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# ***BELARUS*** ***1221.4***

**with motor TCD 2012 L062V (104,6 kW)**

1221.4-0000010 KDS

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## **CATALOGUE OF PARTS AND ASSEMBLY UNITS**

The catalogue was prepared by engineer of Department of Design and Experimental Works - 1 (DDER-1) *I.V. Razmyslovich*. Basic data was provided by key specialists of DDER-1 of RUE "Minsk tractor works".

Chief editor - *I.N.Uss*, Chief Designer of PA "MTW", Director of Scientific and Technical Center of RUE "MTW".

Executive editor— *A.G. Stasilevich*, Design manager for tractor production.

Publications Assistant — *Y. M. Korotky*, Head of Design Bureau of Maintenance Documentation.

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## INTRODUCTION

The present catalogue contains the whole range of assembly units and parts for tractors "BELARUS-1221.4". The tractor "BELARUS -1221.4" is four-by-four general-purpose wheeled tractor of traction class 2. The tractor is equipped with the engine TCD 2012 L06 2V, produced by DEUTZ Company, with electronic control system, power 104,6 kW. The emission level of the engine corresponds to environmental requirements of stage IIIA.

## HOW TO USE THE CATALOGUE

The catalogue consists of three parts:

1. Tractor assembly units and parts.
2. Standardized units (bearings, collars, rings).
3. Component list.

The assembly units and parts in Part I are divided into groups and subgroups according to functional attribute. This directory is well illustrated with axonometric figures of knocked-down tractor components. All parts in the figures have sequence numbers (figure numbers), ascending consequently in a clockwise direction. For ease of catalogue reference in search for necessary part the same sequence numbers are placed in column "Pos. No." in the text part of the catalogue in ascending order from top downward. The figures referred to in the catalogue are well-done in the terms of art and let the user get acquainted with structure and configuration of parts and assembly units. They can serve as a manual for carrying out disassembling and assembling operations.

For example, the following record is given in the catalogue:

"...240-1004100-A      4      Connecting rod (13,20,21,37-39)".

It means that assembly unit "Connecting rod" in the number of 4 pieces per diesel engine consists of the following parts: bushing (pos. 21), connecting rod (pos. 20), connecting-rod bolt (pos. 13), connecting-rod cap (pos. 39), washer (pos. 38) and nut (pos. 37). "Quantity" column gives number of assembly units and parts used in this subgroup (1004) per tractor.

Conventional seven-digit system of assembly unit and parts designation (after prefix) is applied for the tractors "BELARUS-1221.4".

Prefixes A1, A2 and A3 that follow seven-digit part number mean that the design of these parts or assembly units has been changed, but is still interchangeable with the previously produced designs. Prefixes Б, Б1, Б2, В, Г, Д, etc. mean that new part designs will not be interchangeable with parts of previously produced designs, but are interchangeable with each other within the range of one symbol.

Digit prefixes that follow the part or assembly unit number, e.g. 01, 02, 03, etc., describe part or assembly unit version (structural or climatic) and these parts are not interchangeable with each other.

For example, parts "240-1104300-01 (1<sup>st</sup> cylinder tube) and "240-1104300-02 (2<sup>nd</sup> cylinder tube)" have different structural variations and are not interchangeable.

Some parts, taken from previous tractor models, have alphanumeric designations. For example, "Д18-055-A-01 O-ring". Typical sizes of rolling-contact bearings, collars and rubber O-rings, as well as their mounting location and quantity per tractor are given in Part II "Standardized units".

The list of assembly units and parts is given in Part III "Component list" with the components listed in the ascending order of their identification numbers, containing reference

to figures and items numbers. This makes it easier to search for the necessary component in the list, subject to knowing its identification.

## APPLICATION

The tractors "BELARUS-1221.4" are intended for performance of various agricultural operations with mounted, semi-mounted and trailed machines and implements, for transport and loading operations, driving of fixed and agricultural machines. These tractors are delivered to the customers in the Republic of Belarus and abroad.

**NOTE.** The catalogue is designed in accordance with construction documentation. There may be some discrepancies in the catalogue due to the ongoing design development.

### Adopted abbreviations and conventional notations:

**GOST** – State Standard

**OST** – Industry-specific standard

**TU** – Technical Specifications

**TU RB** – Technical Specifications of the Republic of Belarus

**MMZ** – Minskiy Motorny Zavod (Minsk Motor Plant)

**KDS** – Catalogue of parts and assembly units

**KD** – Catalogue of parts

### Russian (Cyrilic Alphabet) Symbols and Designations used in Catalogue and Corresponding English Equivalents

| Russian (Cyrilic Alphabet) Symbols | English Equivalents   | Russian (Cyrilic Alphabet) Symbols | English Equivalents |
|------------------------------------|-----------------------|------------------------------------|---------------------|
| А                                  | A                     | ШП 8                               | SHP 8               |
| Б                                  | B                     | ...K3C...                          | ...KZS...           |
| В                                  | V                     | СЧ-114Б; СШ                        | SCH-114B; SSH       |
| Г                                  | G                     | ХЧП 10; ХЧМ                        | HCHP 10; HCHM       |
| Гг                                 | Gg                    | ТКРН-3                             | TKRN-3              |
| Д                                  | D                     | АМОВТ                              | AMOVТ               |
| Ж                                  | ZH                    | ХС-26                              | HS-26               |
| З                                  | Z                     | ПКШ 1/8"                           | PKSH 1/8"           |
| И                                  | I                     | Р75-В3ВР                           | R75-V3VR            |
| К; КГ 1/8"                         | K; KG1/8"             | ЯВАГ                               | YAVAG               |
| Л                                  | L                     | АУШ                                | AUSH                |
| М                                  | M                     | АШ                                 | ASH                 |
| Н                                  | N                     | ЕМУШ                               | EMUSH               |
| П; 80П-...; ПР                     | P; 80P-...; PR        | УС                                 | US                  |
| Р; Р80; РТ;<br>РП-70;              | R; R80; RT;<br>RP-70; | ШС                                 | SHS                 |
| С; 80С-...; С15                    | S; 80S-...; S15       | Ф50                                | F50                 |
| Т; ТС                              | T; TS                 | ВК                                 | VK                  |
| У; 70У-...                         | U; 70U-...            | ШЦК                                | SHCK                |
| Х; ХЧП                             | H; HCHP               | ПК КГ 3/8"                         | PK KG 3/8"          |
| Ц; Ц125                            | C; C125               | ДОТ                                | DOT                 |
| Ч; СЧ                              | CH; SCH               | ТД                                 | TD                  |
| Ш                                  | SH                    |                                    |                     |
| НМШ; НШ                            | NMSH; NSH             |                                    |                     |
| ШЧ8                                | SHCH 8                |                                    |                     |
| ШП 8                               | SHP 8                 |                                    |                     |

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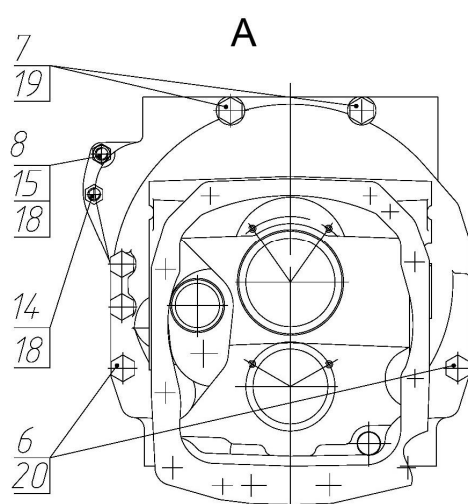
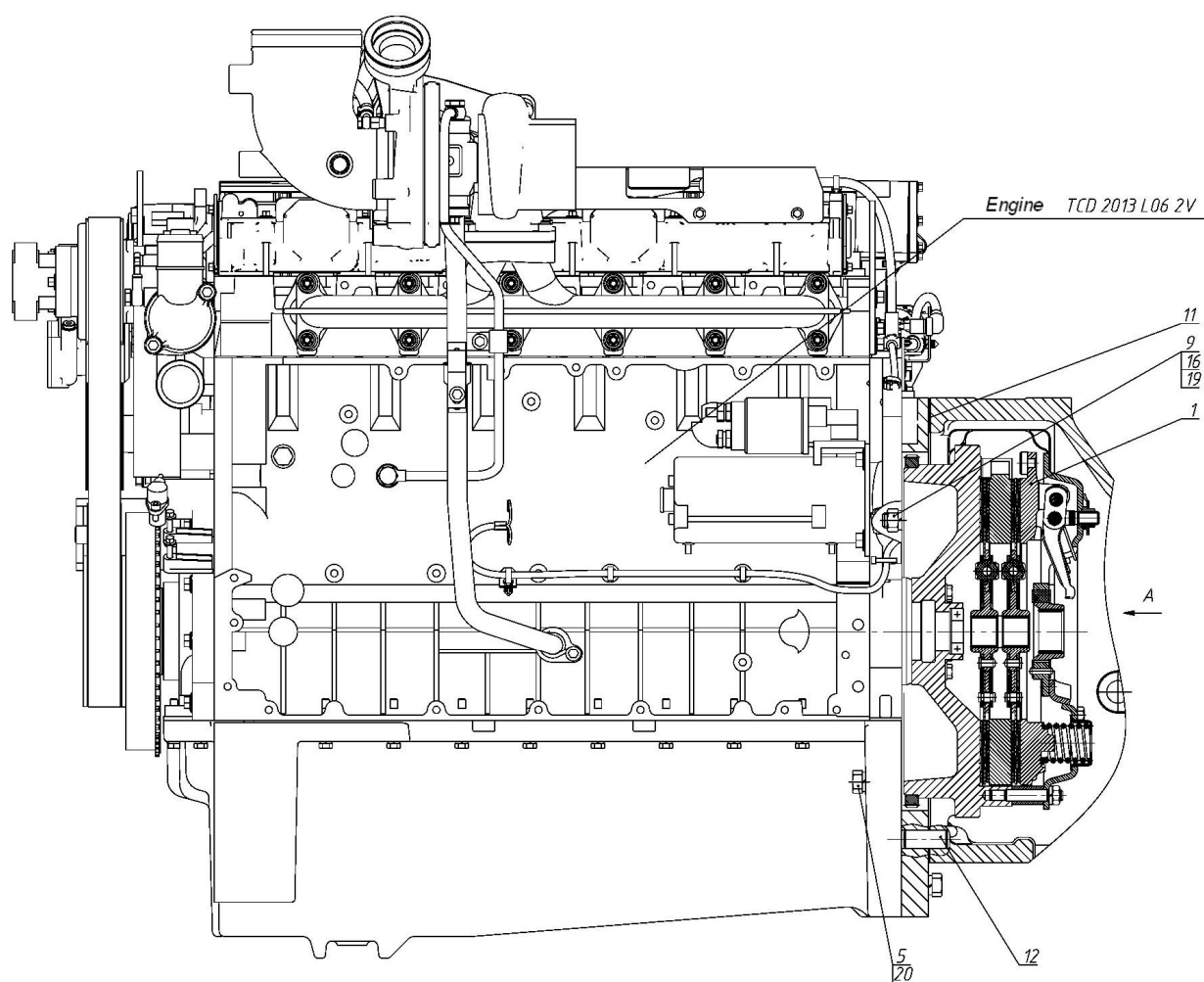


Fig. 10.1 Engine installation

**Group 10. Diesel engine mechanisms**  
**Subgroup 1001. Engine installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|-------------|--------|------------------------------|------|--------------------------|
| <b>10.1</b> |        | 2022.4-1001001-Б-01          | 1    | Engine installation      |
|             | 1      | 1523Д-1005009                | 1    | Clutch installation      |
|             | 5      | 2022Д-1001206                | 2    | Bolt                     |
|             | 6      | 2022Д-1001206-01             | 4    | Bolt                     |
|             | 7      | 2022Д1001207-02              | 2    | Bolt                     |
|             | 8      | 2022Д-1001208                | 1    | Bolt                     |
|             | 9      | 2022Д-1001304                | 1    | Stud                     |
|             | 11     | 1523.4-1001011               | 1    | Gasket                   |
|             | 12     | 80М-2407039                  | 2    | Pin                      |
|             | 14     | М14-6gx60.88.35.019          | 1    | Bolt GOST 7795-70        |
|             | 15     | М14-6Н.8.019                 | 1    | Nut GOST 5915-70         |
|             | 16     | М16-6Н.6.019                 | 1    | Nut GOST 5915-70         |
|             | 18     | 14 OT                        | 2    | Washer OST 37.001.115-75 |
|             | 19     | 16 OT                        | 3    | Washer OST 37.001.115-75 |
|             | 20     | 20 OT                        | 6    | Washer OST 37.001.115-75 |



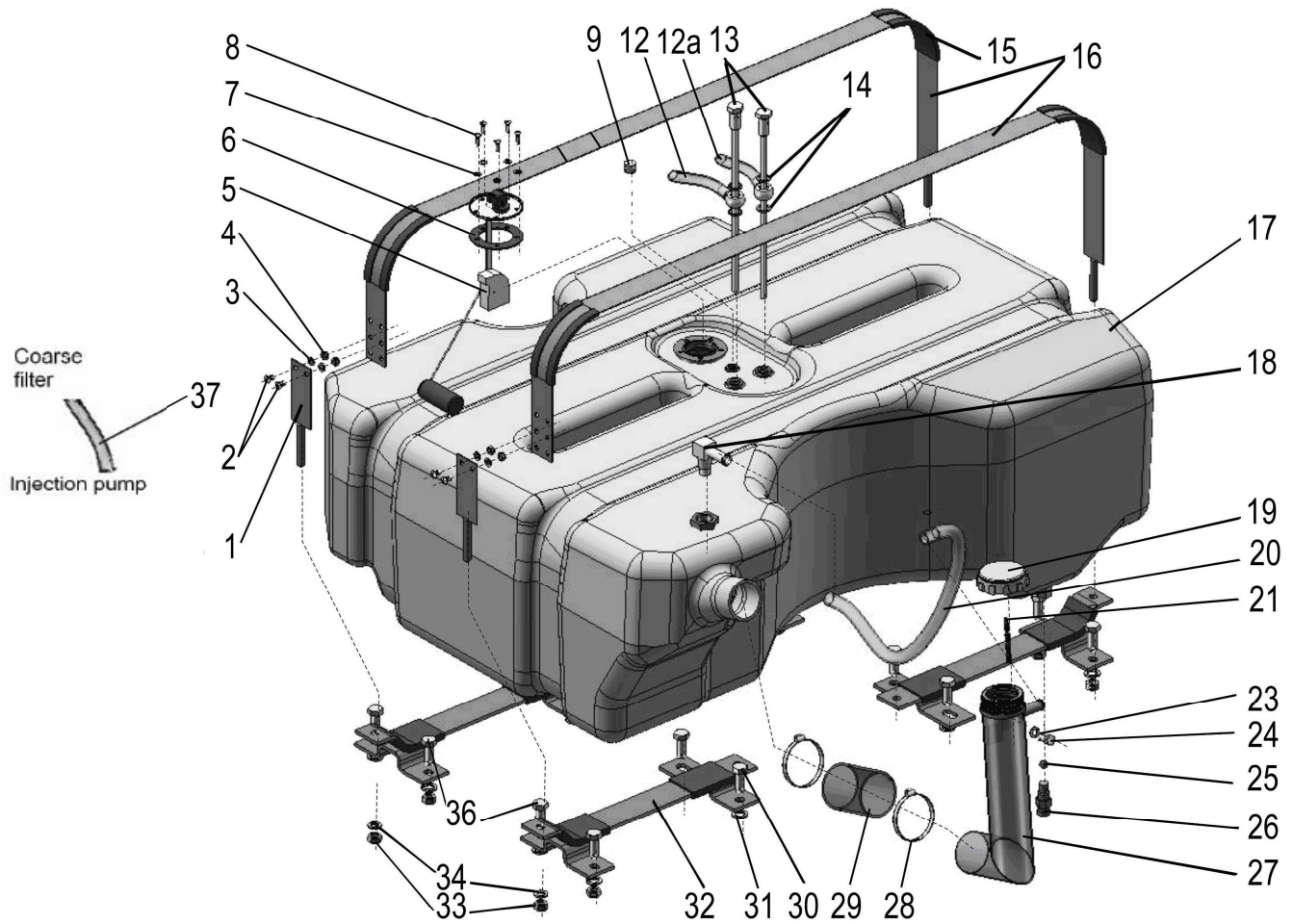


Fig.11.1 Fuel tank

**Group 11. Fuel system**  
**Subgroup 1101. Fuel tank**

| Fig.No      | Pos.No | Assembly unit or part number        | Q-ty | Name                          |
|-------------|--------|-------------------------------------|------|-------------------------------|
| <b>11.1</b> | 1      | 1221-1101690-01                     | 2    | Clamp                         |
|             | 2      | M6-6gx10.58.019 GOST 17473-80       | 4    | Screw                         |
|             | 3      | 6T OST 37.001.115-75                | 4    | Washer                        |
|             | 4      | M6-6H.6.019 GOST 5915-70            | 4    | Nut                           |
|             | 5      | ДОТ.265Ч-01                         | 1    | Air pressure emergency sensor |
|             | 6      | 200-3806026                         | 1    | Gasket                        |
|             | 7      | 80-1101067                          | 5    | Washer                        |
|             | 8      | B.M5-6gx16.58.019 GOST 17473-80     | 5    | Screw                         |
|             | 9      | КГ 1/8".A12.019                     | 1    | Plug                          |
|             | 12     | 920-1101162-11                      | 1    | Pipe                          |
|             | 12a    | 920-1101162-09                      | 1    | Pipe                          |
|             | 13     | 1221-1101530                        | 2    | Fuel intake                   |
|             | 14     | PM14                                | 4    | Washer                        |
|             | 15     | ПР-43-03                            | 4    | Seal YM6                      |
|             | 16     | 1221-1101680                        | 2    | Clamp                         |
|             | 17     | 1221-1101510 or<br>ЯВАГ1221-1101510 | 1    | Tank                          |
|             | 18     | 1221-1101620                        | 1    | Elbow                         |
|             | 19     | 082-1103010                         | 1    | Plug                          |
|             | 20     | 85-1101002                          | 1    | Pipe                          |
|             | 21     | 36-1101070                          | 1    | Chain                         |
|             | 23     | 8T OST 37.001.115-75                | 1    | Washer                        |
|             | 24     | M8-6gx20.88.35.019 GOST 7796-70     | 1    | Bolt                          |
|             | 25     | 11,112-100 GOST 3722-81             | 1    | Ball                          |
|             | 26     | 822-1101081                         | 2    | Union body                    |
|             | 27     | 920-1101260                         | 1    | Filler neck                   |
|             | 28     | XC-61                               | 2    | Clamp                         |
|             | 29     | 70-1101035-Б                        | 1    | Hose                          |
|             | 30     | M12-6gx45.88.35.019 GOST 7796-70    | 8    | Bolt                          |
|             | 31     | 12 OT OST 37.001.115-75             | 8    | Washer                        |
|             | 32     | 1221-1101130                        | 4    | Bracket                       |
|             | 33     | M10-6H.04.019 GOST 5916-70          | 12   | Nut                           |
|             | 34     | 10 OT OST 37.001.115-75             | 12   | Washer                        |
|             | 36     | M10-6gx25.88.35.019 GOST 7796-70    | 8    | Bolt                          |
|             | 37     | 920-1101162-03                      | 1    | Pipe                          |

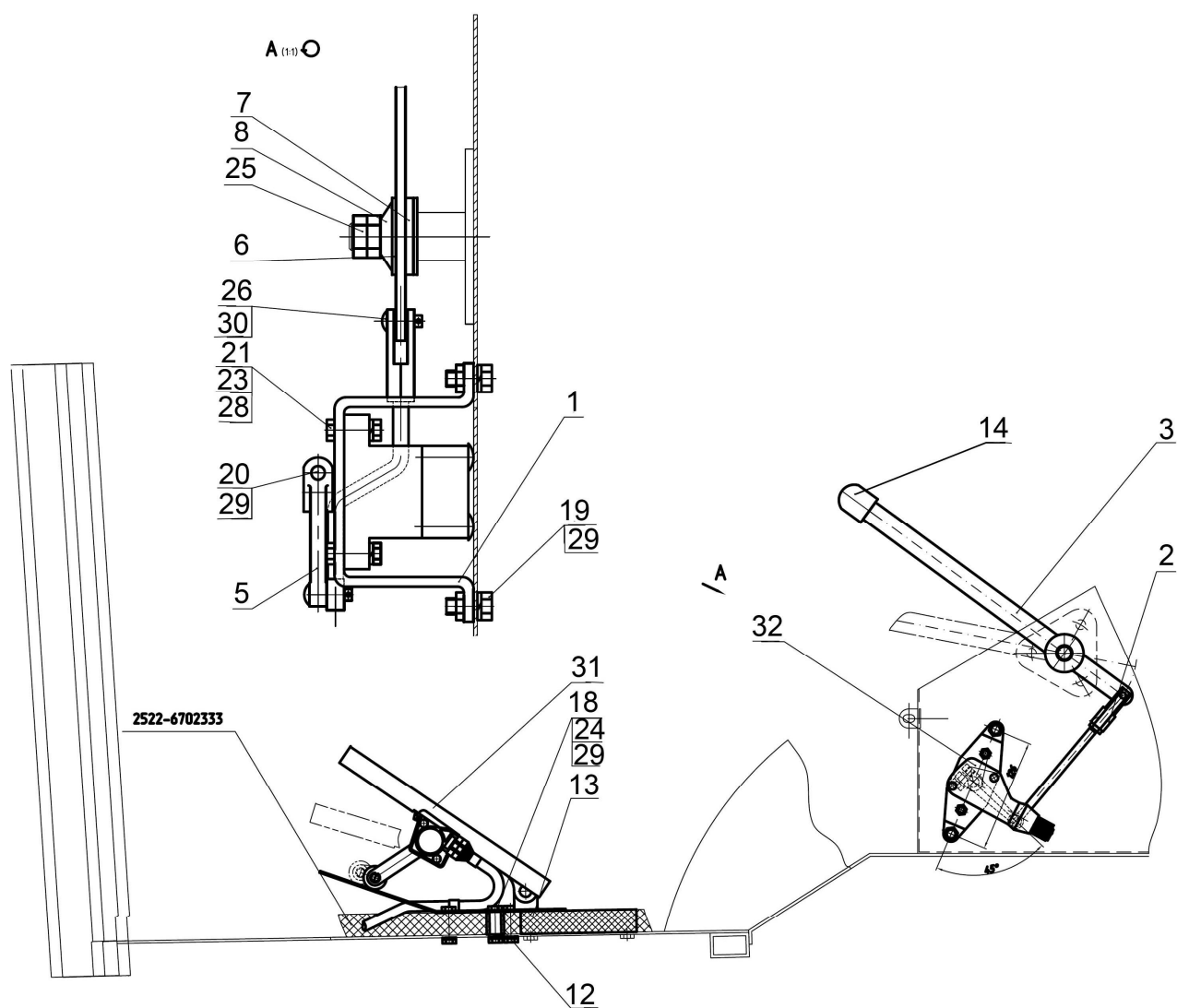


Fig.11.2. Fuel supply control

**Subgroup 1108. Fuel supply control**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|-------------|--------|------------------------------|------|--------------------------|
| <b>11.2</b> | 1      | 2022Д-1108015                | 1    | Bracket                  |
|             | 2      | 2022Д-1108020                | 1    | Rod                      |
|             | 3      | 1522-1108350                 | 1    | Handle                   |
|             | 5      | 3022-1108003                 | 1    | Lever                    |
|             | 6      | 80-1108028                   | 1    | Washer                   |
|             | 7      | 80-1108178                   | 1    | Friction washer          |
|             | 8      | 80В-1108347                  | 1    | Disk spring              |
|             | 11     | 70-1601109-01                | 2    | Pin                      |
|             | 12     | 2522-6702066                 | 2    | Bushing                  |
|             | 13     | 2522-6702318                 | 1    | Blind plug               |
|             | 14     | A13.11.000                   | 1    | Handle                   |
|             | 18     | M8-6gx45.88.35.019           | 2    | Bolt GOST 7795-70        |
|             | 19     | M8-6gx20.88.35.019           | 2    | Bolt GOST 7795-70        |
|             | 20     | M8-6gx25.88.35.019           | 1    | Bolt GOST 7795-70        |
|             | 21     | M6-6gx25.88.35.019           | 2    | Bolt GOST 7798-70        |
|             | 23     | M6-6H.6.019                  | 2    | Nut GOST 5915-70         |
|             | 24     | M8-6H.6.019                  | 2    | Nut GOST 5915-70         |
|             | 25     | M14x1,5-6H.04.019            | 2    | Nut GOST 5916-70         |
|             | 26     | 2x12.019 GOST 397-79         | 2    | Forelock GOST 397-79     |
|             | 28     | 6T                           | 2    | Washer OST 37.001.115-75 |
|             | 29     | 8T                           | 5    | Washer OST 37.001.115-75 |
|             | 31     | EAAX-EXP0023 or 225360       | 1    | Electronic pedal         |
|             | 32     | EAAX-EFT1743                 | 1    | Manual control sensor    |

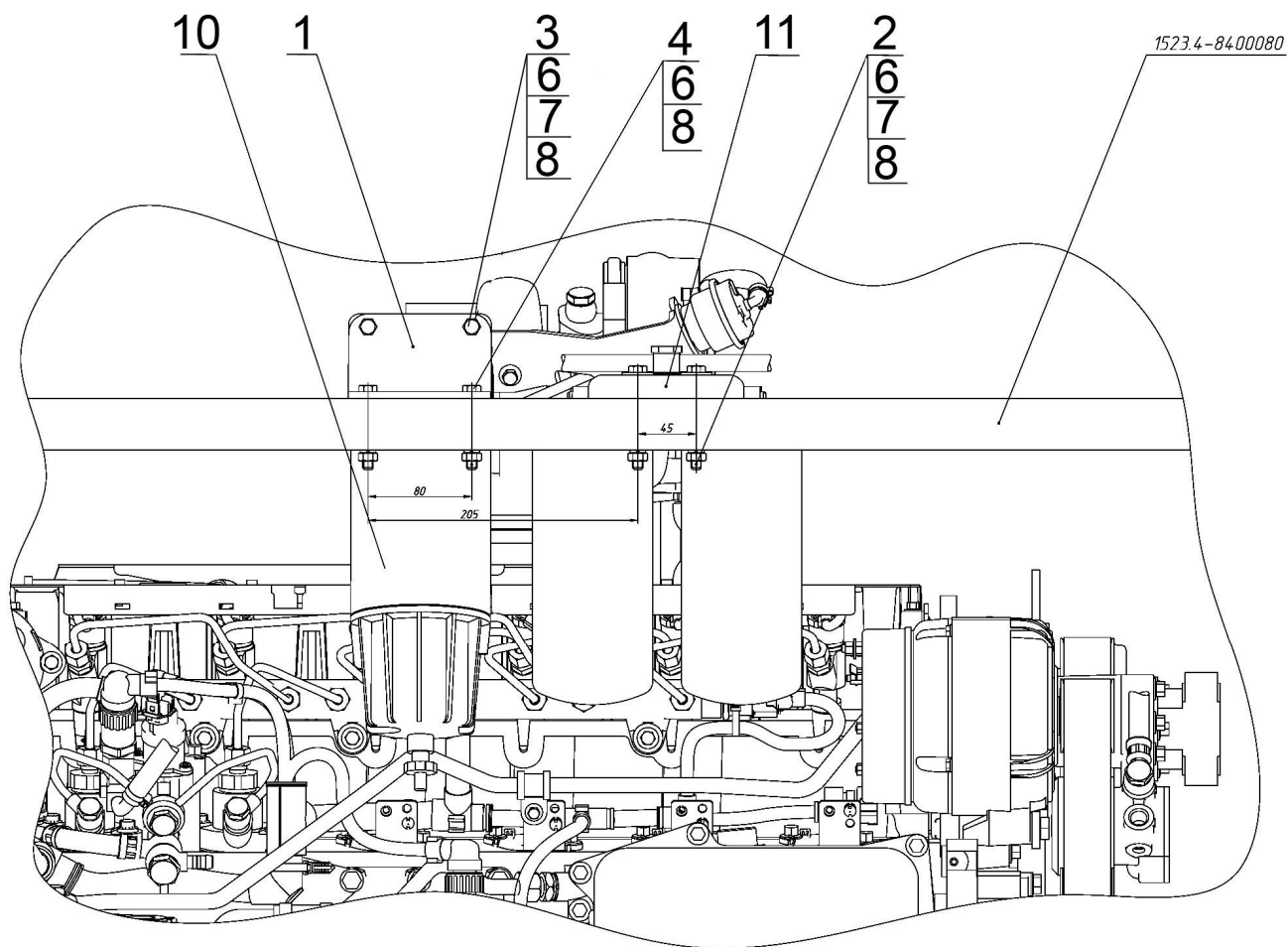


Fig. 11.3 Fuel filter installation

**Group 11. Fuel system**  
**Subgroup 1117. Fuel filter installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|-------------|--------|------------------------------|------|--------------------------|
| <b>11.3</b> |        | 1222.4-1117100               | 1    | Fuel filter installation |
|             | 1      | 1222.4-1117111               | 1    | Bracket                  |
|             | 2      | M8-6gx75.88.35.019           | 2    | Bolt GOST 7795-70        |
|             | 3      | M8-6gx35.88.35.019           | 2    | Bolt GOST 7796-70        |
|             | 4      | M8-6gx65.88.35.019           | 2    | Bolt GOST 7796-70        |
|             | 6      | M8-6H.6.019 GOST 5915-70     | 6    | Nut GOST 5915-70         |
|             | 7      | C 8.01.019                   | 4    | Washer GOST 6958-78      |
|             | 8      | 8T                           | 6    | Washer OST 37.001.115-75 |
|             | 10     | 0028-1878                    | 1    | Fuel coarse filter       |
|             | 11     | 0028-2456                    | 1    | Fuel fine filter         |

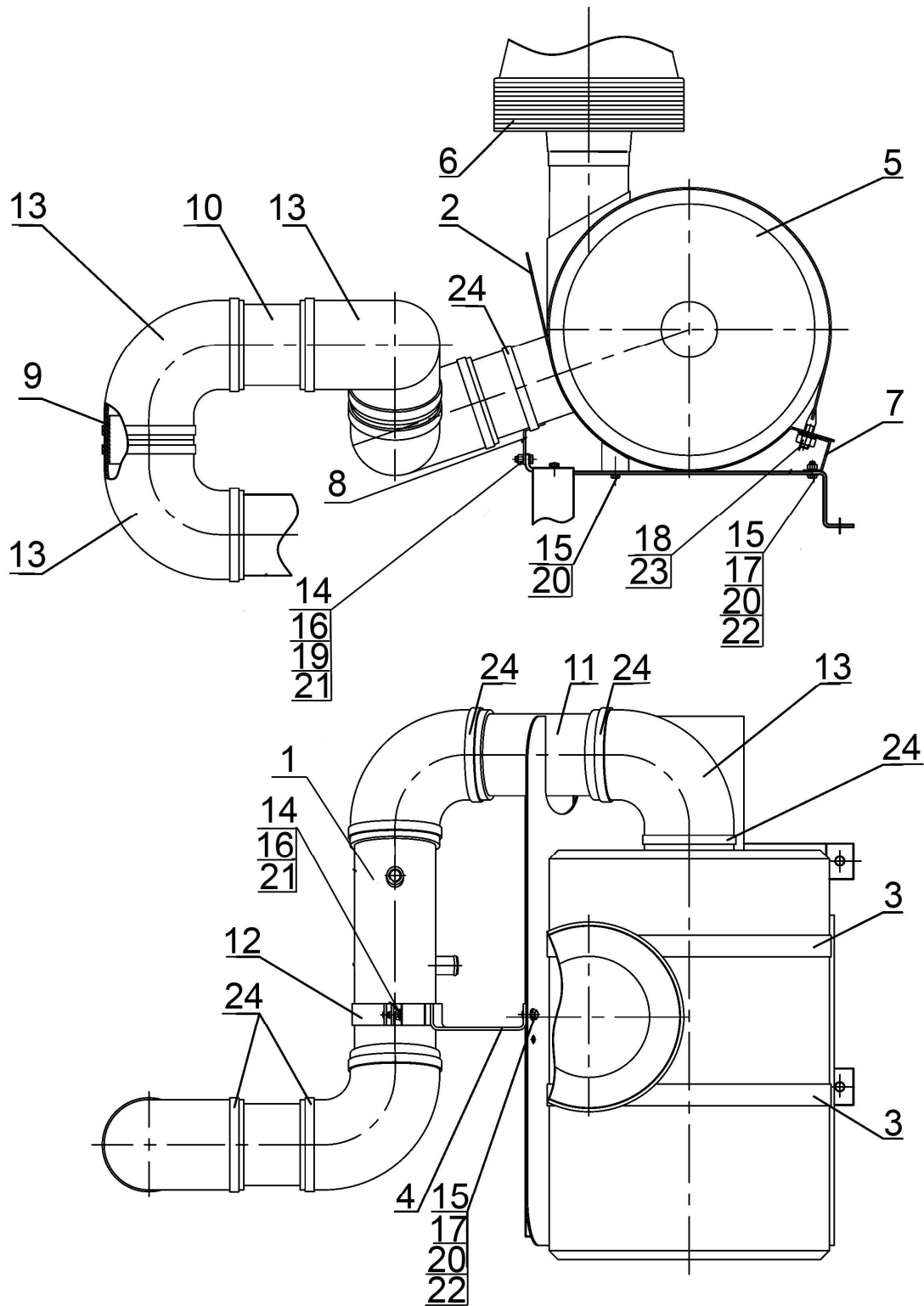


Fig. 11.4 Air cleaner installation

**Group 11. Fuel system**  
**Subgroup 1109. Air cleaner installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|-------------|--------|------------------------------|------|--------------------------|
| <b>11.4</b> |        | 1523.4-1109125               | 1    | Air cleaner installation |
|             | 1      | 1523.4-1109025               | 1    | Air pipe                 |
|             | 2      | 1523.4-1109110               | 1    | Support                  |
|             | 3      | 1522-1109025                 | 2    | Clamp                    |
|             | 4      | 1121B-1109010                | 1    | Bracket                  |
|             | 5      | 260-1109015-02               | 1    | Air cleaner              |
|             | 6      | A53.21.000-02                | 1    | Monocyclone              |
|             | 7      | 1523.4-1109022               | 1    | Bracket                  |
|             | 8      | 1523.4-1109023               | 1    | Bracket                  |
|             | 9      | 1523.4-1109024               | 1    | Pipe                     |
|             | 10     | 1523.4-1109024-01            | 1    | Pipe                     |
|             | 11     | 1523.4-1109024-02            | 1    | Pipe                     |
|             | 12     | 1221B-1109008                | 1    | Joke                     |
|             | 13     | 260-1109009-A                | 5    | Tube                     |
|             | 14     | M6-6gx20.88.35.019           | 3    | Bolt GOST 7798-70        |
|             | 15     | M8-6gx20.88.35.019           | 4    | Bolt GOST 7796-70        |
|             | 16     | M6-6H.6.019                  | 3    | Nut GOST 5915-70         |
|             | 17     | M8-6H.6.019                  | 2    | Nut GOST 5915-70         |
|             | 18     | M10-6H.6.019                 | 2    | Nut GOST 5915-70         |
|             | 19     | C6.01.019                    | 1    | Washer GOST 6958-78      |
|             | 20     | C8.01.019                    | 4    | Washer GOST 6958-78      |
|             | 21     | 6T                           | 3    | Washer OST 37.001.115-75 |
|             | 22     | 8T                           | 2    | Washer OST 37.001.115-75 |
|             | 23     | 10 OT                        | 2    | Washer OST 37.001.115-75 |
|             | 24     | TORRO 90-110/9-C6W           | 11   | Clamp «NORMA»            |



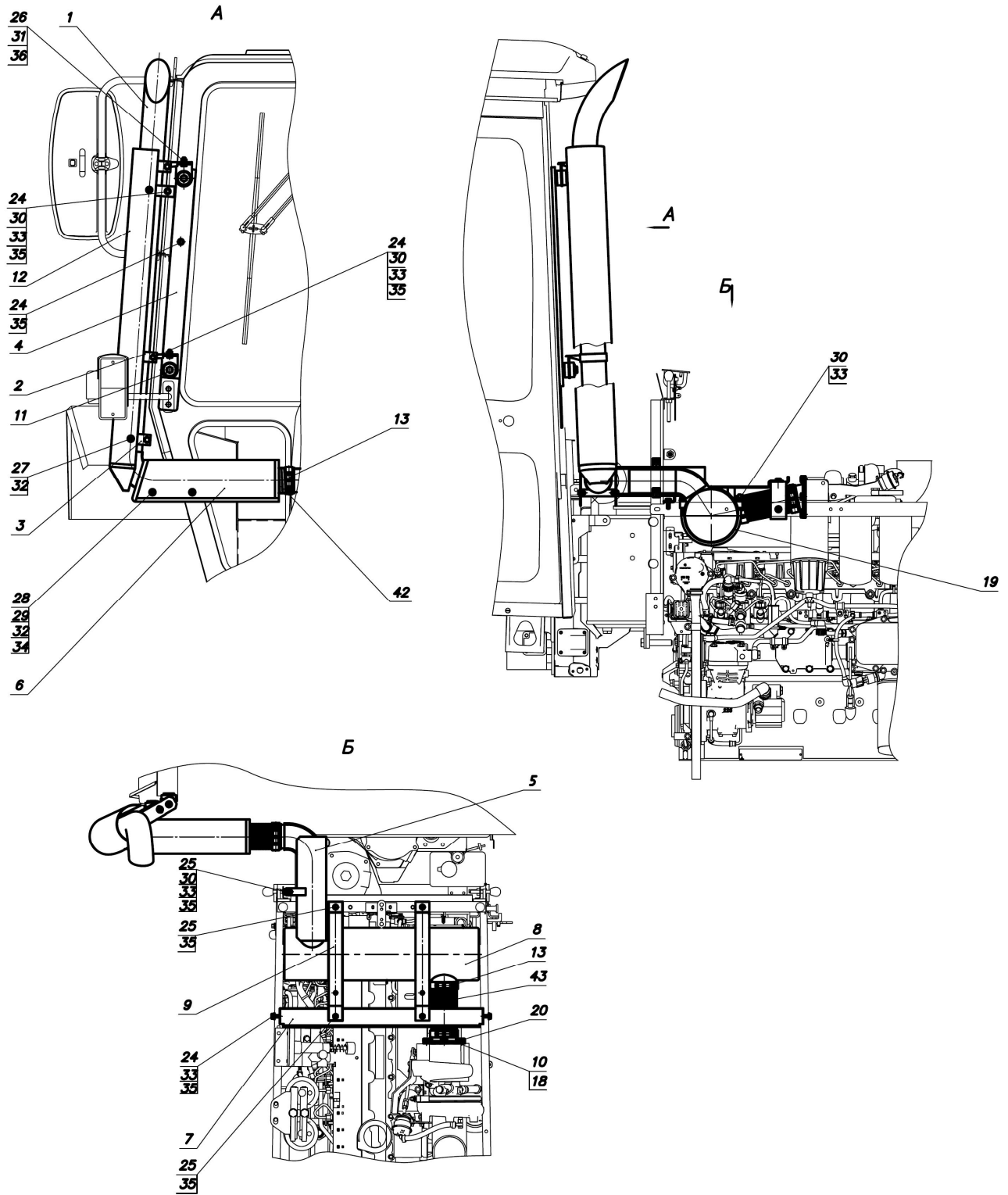


Fig. 12.1 Muffler installation

**Group 12 Gas exhaust system  
Subgroup 1205. Muffler installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                               |
|-------------|--------|------------------------------|------|------------------------------------|
| <b>12.1</b> |        | 1221.4-1205005               | 1    | Muffler installation               |
|             | 1      | 1221.4-1205010               | 1    | Exhaust pipe                       |
|             | 2      | 1221.4-1205020               | 2    | Clamp                              |
|             | 3      | 1221.4-1205030               | 2    | Clamp                              |
|             | 4      | 1221.4-1205040               | 1    | Bracket                            |
|             | 5      | 1221.4-1205050               | 1    | Screen                             |
|             | 6      | 1221.4-1205060               | 1    | Guard                              |
|             | 7      | 1221.4-1205070               | 1    | Cross bar                          |
|             | 8      | 1221.4-1205100               | 1    | Muffler                            |
|             | 9      | 1523.4-1205030               | 2    | Support                            |
|             | 10     | 1523.4-1205040               | 1    | Tube                               |
|             | 11     | 2022-1205500                 | 2    | Damper                             |
|             | 12     | 952-1205650                  | 1    | Muffler guard                      |
|             | 13     | 2022-1205090                 | 4    | Clamp                              |
|             | 18     | 2022Д-1205001                | 1    | Gasket                             |
|             | 19     | 952-1205001                  | 2    | Joke                               |
|             | 24     | M8-6gx45.88.35.019           | 7    | Bolt GOST 7795-70                  |
|             | 25     | M8-6gx20.88.35.019           | 6    | Bolt GOST 7796-70                  |
|             | 26     | M10-6gx20.88.35.019          | 2    | Bolt GOST 7796-70                  |
|             | 27     | M6-6gx12.88.35.019           | 4    | Bolt GOST 7798-70                  |
|             | 28     | M6-6gx16.88.35.019           | 4    | Bolt GOST 7798-70                  |
|             | 29     | M6-6H.6.019                  | 4    | Nut GOST 5915-70                   |
|             | 30     | M8-6H.6.019                  | 10   | Nut GOST 5915-70                   |
|             | 31     | M10-6H.6.019                 | 2    | Nut GOST 5915-70                   |
|             | 32     | 06.01.019                    | 8    | Washer GOST 6958-78                |
|             | 33     | 08.01.019                    | 12   | Washer GOST 11371-78               |
|             | 34     | 6T                           | 4    | Washer OST 37.001.115-75           |
|             | 35     | 8T                           | 13   | Washer OST 37.001.115-75           |
|             | 36     | 10OT                         | 2    | Washer OST 37.001.115-75           |
|             | 42     | 000.4859.21.000-70-300       | 1    | Metal hose TU 3430-002-03711374-97 |
|             | 43     | 000.4859.21.000-70-160       | 1    | Metal hose TU 3430-002-03711374-97 |

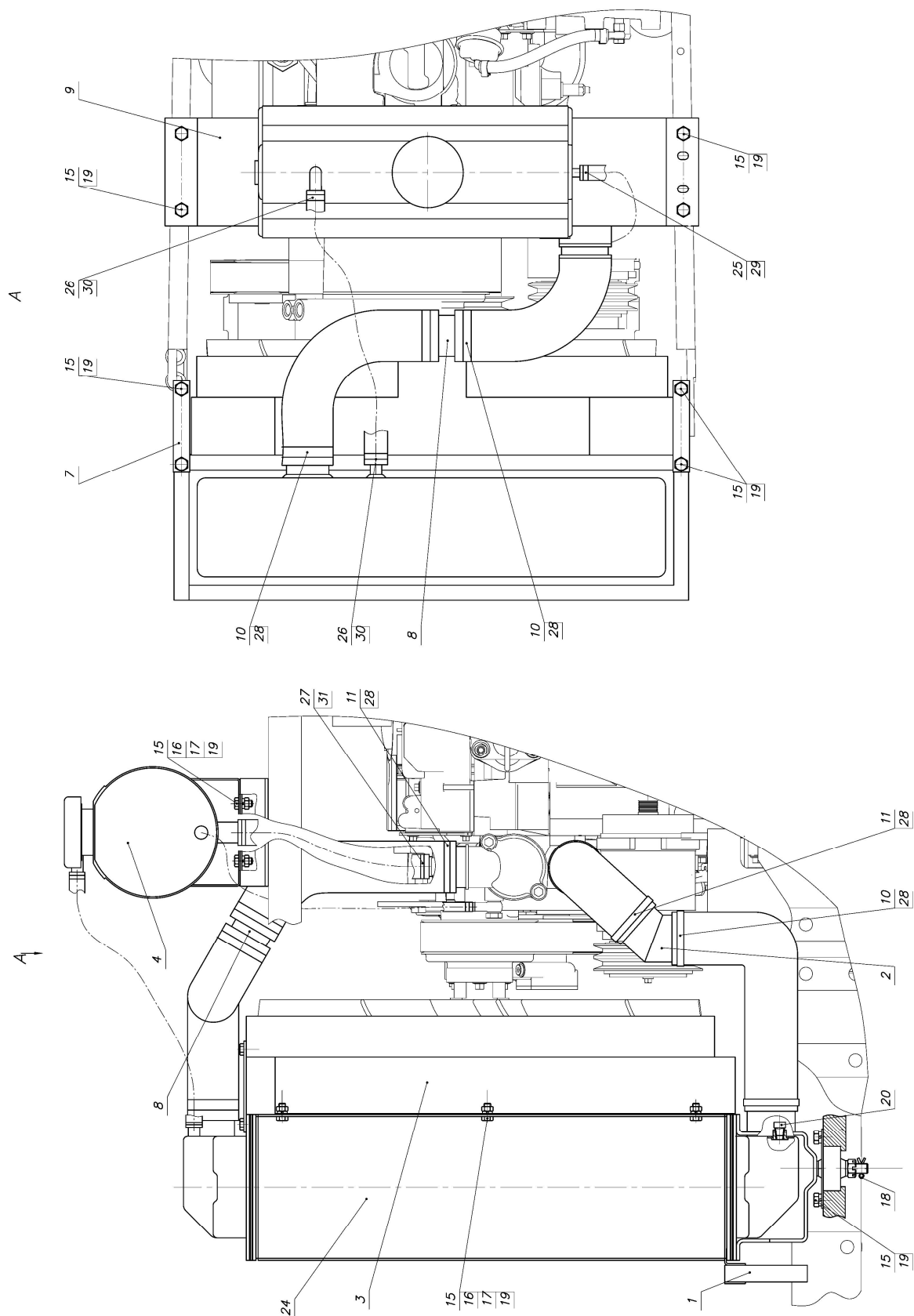


Fig. 13.1 Cooling unit 1523Д-1301009

**Group 13. Cooling system**  
**Subgroup 1301. Cooling unit 1523Д-1301009**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty        | Name                                                                                                       |
|-------------|--------|------------------------------|-------------|------------------------------------------------------------------------------------------------------------|
| <b>13.1</b> | 1      | 1523-1301320                 | 1           | Seal                                                                                                       |
|             | 2      | 1523Д-1303030                | 1           | Pipe                                                                                                       |
|             | 3      | 1523Д-1309080                | 1           | Housing                                                                                                    |
|             | 4      | 1523Д-1311010                | 1           | Expansion tank                                                                                             |
|             | 7      | 1523Д-1302001                | 2           | Plate                                                                                                      |
|             | 8      | 1523Д-1302011                | 1           | Adapter                                                                                                    |
|             | 9      | 1523Д-1311031                | 1           | Bracket                                                                                                    |
|             | 10     | 142-1303010                  | 2           | Hose                                                                                                       |
|             | 15     | M8-6gx16.88.35.019           | 22          | Bolt GOST 7796-70                                                                                          |
|             | 16     | M8-6H.04.019                 | 10          | Nut GOST 5915-70                                                                                           |
|             | 17     | C8.01.08.019                 | 110         | Washer GOST 6958-78                                                                                        |
|             | 18     | 3.2x25.019                   | 2           | Forelock GOST 397-79                                                                                       |
|             | 19     | 8T                           | 22          | Washer OST 37.00115-75                                                                                     |
|             | 20     | КГ 1/4".A12.019              | 1           | Plug TU 23.1.506-91                                                                                        |
|             | 24     | 1520Д-1301010                | 1           | Water radiator TU 4791-004-11943236-2006                                                                   |
|             | 25     |                              | 2           | Clamp with worm thread 12-22 or<br>Clamp/Clamp NORMA TORRO 12-22/971 or<br>Clamp «NORMA» TORRO 12-20/9-C6W |
|             | 26     |                              | 2           | Clamp with worm thread 16-25 or<br>Clamp/Clamp NORMA TORRO 16-27/971 or<br>Clamp «NORMA» TORRO 12-25/9-C6W |
|             | 27     |                              | 2           | Clamp with worm thread 25-40 or<br>Clamp/Clamp NORMA TORRO 25-40/971 or<br>Clamp «NORMA» TORRO 25-40/9-C6W |
|             | 28     |                              | 10          | Clamp with worm thread 50-70 or<br>Clamp/Clamp NORMA TORRO 50-70/971 or<br>Clamp «NORMA» TORRO 50-70/9-C6W |
|             | 29     |                              | L=400<br>mm | Hose 10x18.5 GOST 10362-76                                                                                 |
|             | 30     |                              | L=600<br>mm | Hose 14x23-1.6 GOST 10362-76                                                                               |
|             | 31     |                              | L=600<br>mm | Hose 25x36-1.6 GOST 10362-76                                                                               |

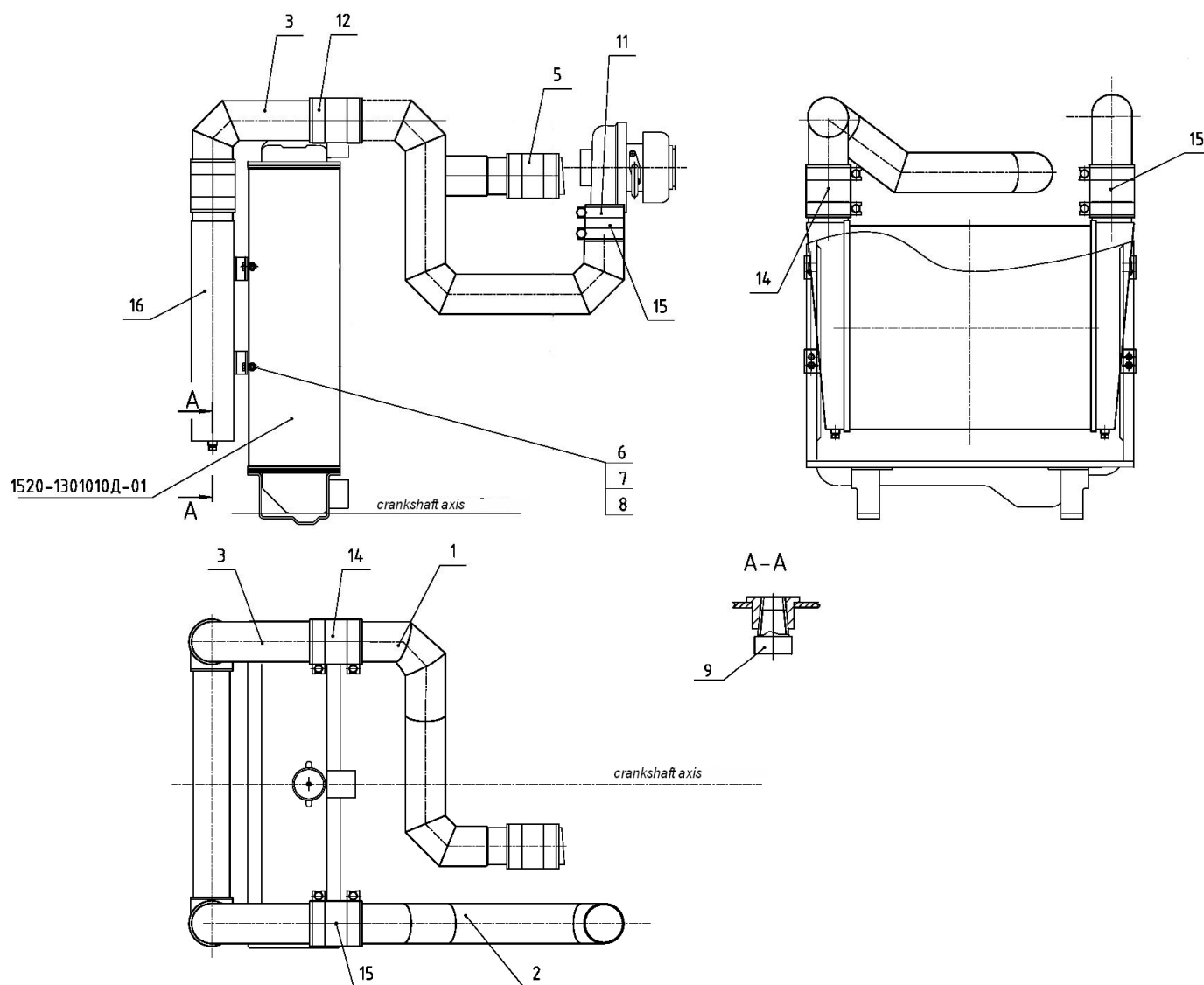


Fig. 13.2 Cooler installation 1523Д-1317010

**Group 13. Cooling system**  
**Subgroup 1301. Cooler installation 1523Д-1317010**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                                                                                  |
|-------------|--------|------------------------------|------|-------------------------------------------------------------------------------------------------------|
| <b>13.2</b> | 1      | 1523Д-1317600                | 1    | Air pipe                                                                                              |
|             | 2      | 1523Д-1317610                | 1    | Air pipe                                                                                              |
|             | 3      | 1523-1317620                 | 2    | Air pipe                                                                                              |
|             | 5      | 922-1109006-01               | 1    | Tube                                                                                                  |
|             | 6      | M8-6gx16.88.35.019           | 4    | Bolt GOST 7796-70                                                                                     |
|             | 7      | M8-6H.6.019                  | 4    | Nut GOST 5915-70                                                                                      |
|             | 8      | 8T                           | 4    | Washer OST 37.001.115-75                                                                              |
|             | 9      | КТ 1/4".А 12.019             | 2    | Plug TU 23.1.5069-91                                                                                  |
|             | 11     |                              | 2    | Clamp with hinge pin 76/25 or<br>Clamp /Clamp NORMA «GBS» M 76/25 W2                                  |
|             | 12     |                              | 10   | Clamp with hinge pin 82/25 or<br>Clamp /Clamp NORMA «GBS» M 82/25 W2 or<br>Clamp «NORMA» GBS 82/25 W2 |
|             | 14     |                              | 2    | Silicon tube 75x100 blue*                                                                             |
|             | 15     |                              | 3    | Silicon tube 75x100 red*                                                                              |
|             | 16     | 1522-1317100                 | 1    | Charge air cooler                                                                                     |

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\* Interchangeable components

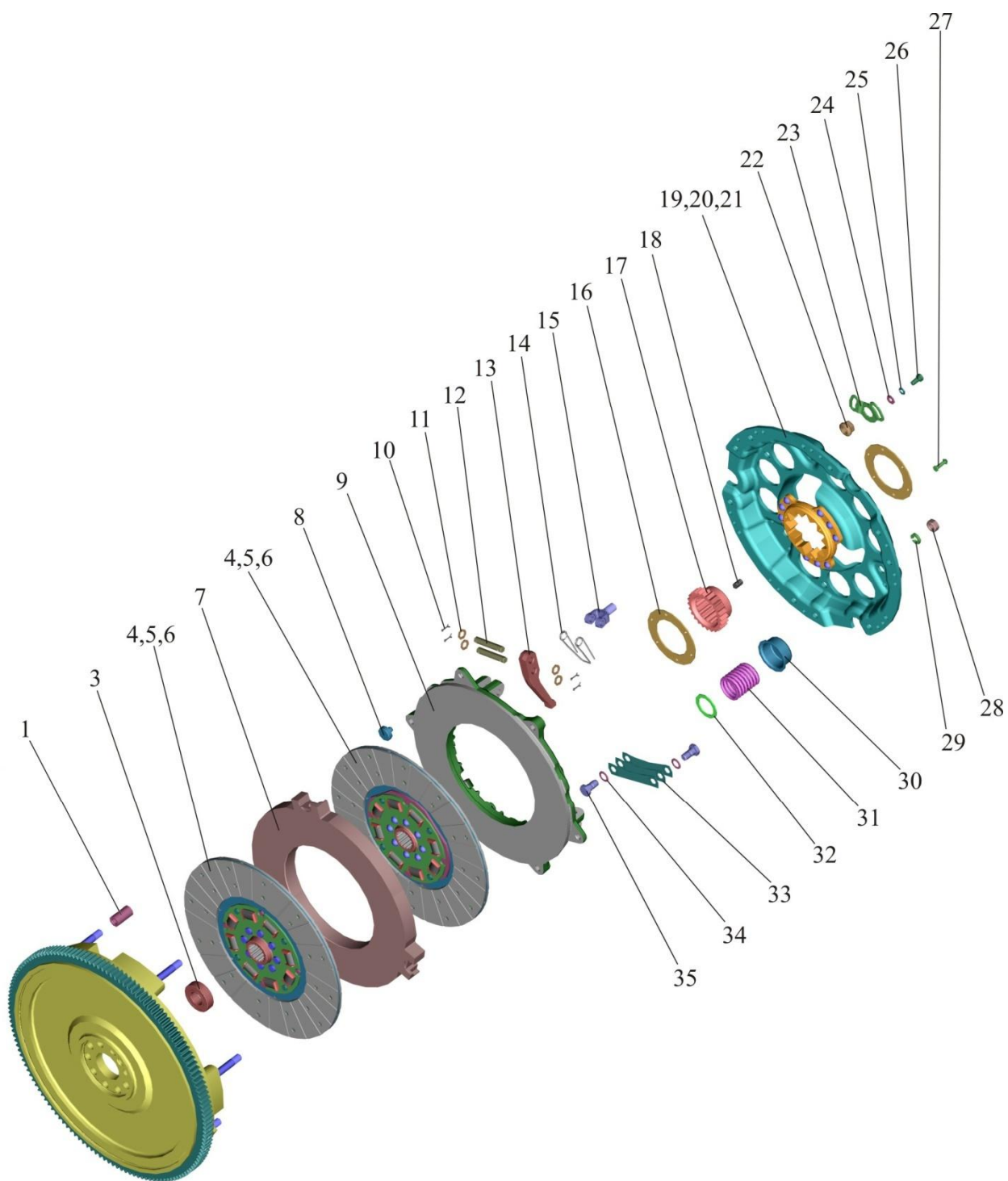


Fig. 16.1 Clutch installation 1523Д-1005009

**Group 16. Clutch**  
**Subgroup 1601. Clutch installation 1523Д-1005009**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                     |
|-------------|--------|------------------------------|------|------------------------------------------|
| <b>16.1</b> |        | 1523Д-1005009                | 1    | Clutch installation (1-35)               |
|             |        | 85-1601090-B                 | 1    | Clutch disk (8-35)                       |
|             |        | 1522-1601120                 | 1    | Backing plate (16-18, 21, 27)            |
|             | 1      | 70-1601074                   | 6    | Bushing                                  |
|             | 3      | 180205K1C17                  | 1    | Bearing                                  |
|             | 4      | 85-1601130-01                | 2    | Driven disk (assembled with 5 and 6)     |
|             | 5      | 70-1601138-01                | 2    | Friction plate (enclosed into 4)         |
|             | 6      | 2-4x8.32<br>GOST 12642-80    | 48   | Non-threaded fastener (enclosed into 4)  |
|             | 7      | 1520-1601092                 | 1    | Center plate                             |
|             | 8      | 1520-1601123                 | 3    | Thrust                                   |
|             | 9      | 85-1601093-B                 | 1    | Pressure disk                            |
|             | 10     | 3,2x18.019<br>GOST 397-79    | 12   | Forelock                                 |
|             | 11     | 85-1601108                   | 12   | Washer                                   |
|             | 12     | 85-1601096                   | 6    | Pin                                      |
|             | 13     | 85-1601094                   | 3    | Release lever                            |
|             | 14     | 85-1601083                   | 3    | Spring                                   |
|             | 15     | 85-1601097                   | 3    | Yoke                                     |
|             | 16     | 1522-1601062                 | 2    | Washer                                   |
|             | 17     | 70-1601053                   | 1    | Bushing                                  |
|             | 18     | 70-1601091                   | 12   | Damper                                   |
|             | 19     | 8x22.01<br>GOST 10299-80     | 9    | Non-threaded fastener (enclosed into 21) |
|             | 20     | 1522-1601051                 | 1    | Hub (enclosed into 21)                   |
|             | 21     | 1522-1601125                 | 1    | Backing plate (assembled with 19 and 20) |
|             | 22     | 85-1601109-A                 | 3    | Adjusting nut                            |
|             | 23     | 85-1601086                   | 3    | Lock washer                              |
|             | 24     | C 8.01.019                   | 6    | Washer GOST 11371-78                     |
|             | 25     | 8 T                          | 6    | Washer OST 37.001.115-75                 |
|             | 26     | M8x16<br>GOST 7796-70        | 6    | Bolt                                     |
|             | 27     | 6x30.01<br>GOST 10299-80     | 6    | Non-threaded fastener                    |
|             | 28     | M12x1,25<br>GOST 5915-70     | 9    | Nut                                      |
|             | 29     | 12 OT<br>OST 37.001.115-75   | 9    | Washer                                   |
|             | 30     | 85-1601072-B                 | 9    | Sleeve                                   |
|             | 31     | 85-1601115                   | 9    | Spring                                   |
|             | 32     | 85-1601118-B                 | 9    | Insulating washer                        |
|             | 33     | 85-1601124                   | 9    | Plate                                    |
|             | 34     | 85-1601121                   | 6    | Washer                                   |
|             | 35     | 85-1601126                   | 6    | Bolt                                     |



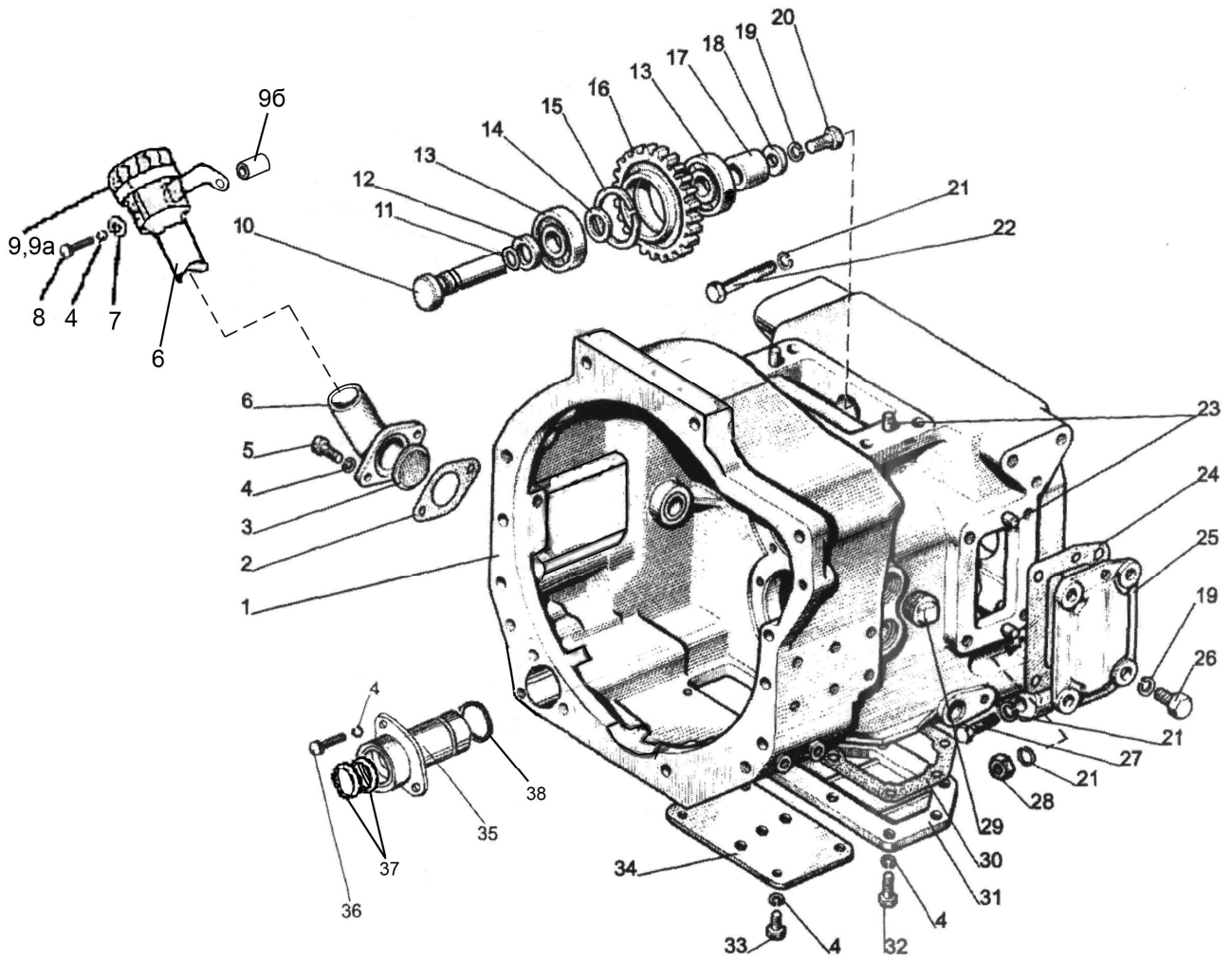


Fig. 16.2. Clutch housing

**Group 16. Clutch**  
**Subgroup 1601. Clutch housing**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                                               |
|-------------|--------|------------------------------|------|--------------------------------------------------------------------|
| <b>16.2</b> |        | 1221.4-1600010-01 *          | 1    | Clutch housing (1-3 ,4-13 pieces, 5, 6, 9, 9a,10-20, 23-26, 29-34) |
|             |        | 1221.4-1600010-02 **         | 1    | Clutch housing (1-3 ,4-13 pieces, 5, 6, 9, 9a,10-20, 23-26, 29-34) |
|             |        | 86-1802015-Б                 | 1    | Cage (35, 37, 38)                                                  |
|             |        | 70-1601330                   | 1    | Gear(13-16)                                                        |
|             |        | 1522-1601300                 | 1    | Filler neck (6, 9, 9a)                                             |
|             | 1      | 1221.4-1601015               | 1    | Housing                                                            |
|             | 2      | 240-1002082-A                | 1    | Gasket                                                             |
|             | 3      | 240-1002085                  | 1    | Net                                                                |
|             | 4      | ШП 8                         | 16   | Washer                                                             |
|             | 5      | M8x20                        | 2    | Bolt                                                               |
|             | 6      | 1522-1601310                 | 1    | Filler neck                                                        |
|             | 7      | ШЧ 8                         | 1    | Washer                                                             |
|             | 8      | M8x50                        | 1    | Bolt                                                               |
|             | 9      | 082-1103010                  | 1    | Plug                                                               |
|             | 9a     | 36-1101070                   | 1    | Chain                                                              |
|             | 96     | 2022-1601306-02              | 1    | Bushing                                                            |
|             | 10     | 80-1601335                   | 1    | Axis                                                               |
|             | 11     | 020-025-30-1-6               | 1    | Ring                                                               |
|             | 12     | 80-1601337                   | 1    | Washer                                                             |
|             | 13     | 305A                         | 2    | Bearing                                                            |
|             | 14     | 70-1601333                   | 1    | Ring                                                               |
|             | 15     | C62                          | 1    | Ring                                                               |
|             | 16     | 70-1601331                   | 1    | Gear                                                               |
|             | 17     | 80-1601336                   | 1    | Bushing                                                            |
|             | 18     | 80-1601334                   | 1    | Thrust washer                                                      |
|             | 19     | ШП 12                        | 5    | Washer                                                             |
|             | 20     | M12x35                       | 1    | Bolt                                                               |
|             | 21     | ШП 20                        | 6    | Washer                                                             |
|             | 22     | 70-4605036-03                | 1    | Bolt                                                               |
|             | 23     | ШЦК 10x25                    | 4    | Pin                                                                |
|             | 24     | 80-1601343                   | 1    | Gasket                                                             |
|             | 25     | 80-1601342                   | 1    | Cover                                                              |
|             | 26     | M12x30                       | 4    | Bolt                                                               |
|             | 27     | 70-4605036                   | 4    | Bolt                                                               |
|             | 28     | M20                          | 1    | Nut                                                                |
|             | 29     | ПК КГ 1 1/4"                 | 1    | Plug                                                               |
|             | 30     | 80-1601314                   | 1    | Gasket                                                             |
|             | 31     | 80-1601313                   | 1    | Cover                                                              |
|             | 32     | M8x25                        | 7    | Bolt                                                               |
|             | 33     | M8x16                        | 4    | Bolt                                                               |
|             | 34     | 50-1601341                   | 1    | Cover                                                              |
|             | 35     | 2022Д-1802020                | 1    | Cage                                                               |
|             | 36     | M8x35                        | 2    | Bolt                                                               |
|             | 37     | 2.2-38x58-1                  | 2    | Collar                                                             |
|             | 38     | 048-052-25-2-4               | 1    | Ring                                                               |

\* For tractors with GB 16Fx8R

\*\* For tractors with GB 24Fx12R

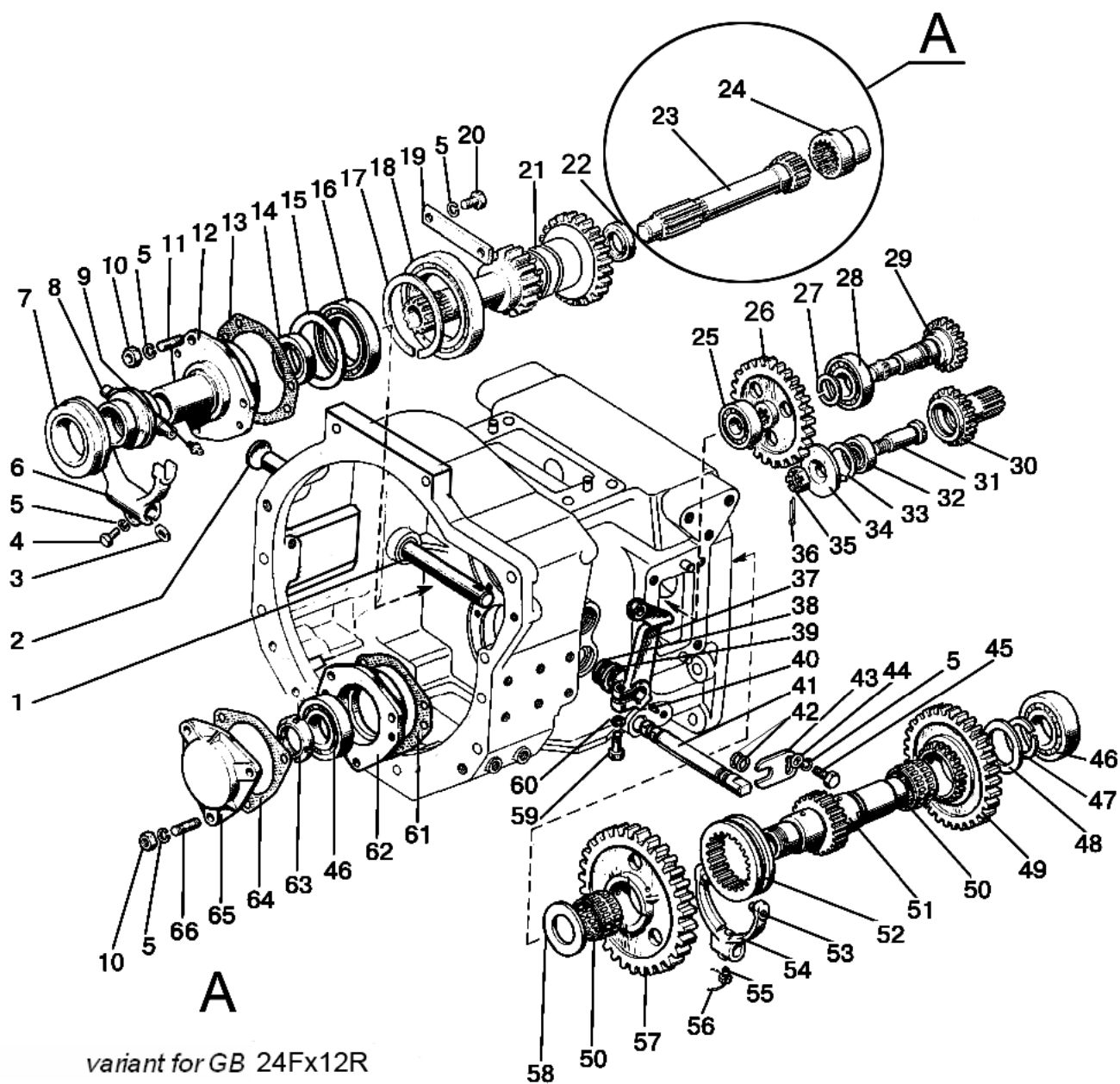


Fig. 16.3 Clutch housing

**Group 16. Clutch**  
**Subgroup 1601. Clutch housing**

| Fig.No      | Pos.No | Assembly unit or part number      | Q-ty   | Name                                      |
|-------------|--------|-----------------------------------|--------|-------------------------------------------|
| <b>16.3</b> |        | 80-1601030-01                     | 1      | Shifter bracket (12, 14)                  |
|             |        | 80-1601040                        | 1      | Sleeve (46-1 piece, 62)                   |
|             |        | 80-1601050-01                     | 1      | Shaft (16-18, 21, 22)                     |
|             |        | 2022-1601060*                     | 1      | Bushing (23a, 24*)                        |
|             |        | 80-1601070                        | 1      | Gear shaft(27-29)                         |
|             |        | 85-1601150                        | 1      | Shaft (1, 37, 40, 59, 60)                 |
|             |        | 80-1601160                        | 1      | Shaft (46-1 piece, 47-49, 50-1 piece, 51) |
|             |        | 80-1601180                        | 1      | Gear(30-33)                               |
|             |        | 50-1601180-A                      | 1      | Shifter (7-9)                             |
|             |        | 80-1601190                        | 1      | Yoke (53, 54)                             |
|             | 1      | 85-1601215                        | 1      | Shaft                                     |
|             | 2      | 50-1601022                        | 1      | Blind plug                                |
|             | 3      | 50-1601218                        | 1      | Key                                       |
|             | 4      | M10x30                            | 1      | Bolt                                      |
|             | 5      | ШП 10                             | 10     | Washer                                    |
|             | 6      | 85-1601203                        | 1      | Yoke                                      |
|             | 7      | 986714KC17                        | 1      | Thrust bearing                            |
|             | 8      | 50-1601185-A                      | 1      | Shifter                                   |
|             | 9      | 1.1.Ц9.xp                         | 1      | Oiler                                     |
|             | 10     | M10                               | 6      | Nut                                       |
|             | 11     | M10x3p/6gx25                      | 3      | Stud                                      |
|             | 12     | 85-1601172                        | 1      | Bracket                                   |
|             | 13     | 80-1601173                        | 1      | Gasket                                    |
|             | 14     | 240-1002055                       | 1      | Collar                                    |
|             | 15     | 80-1601319                        | 1      | Washer                                    |
|             | 16     | 115K5                             | 1      | Bearing                                   |
|             | 17     | C105                              | 1      | Ring                                      |
|             | 18     | 76-1000921                        | 1      | Bearing                                   |
|             | 19     | 80-1601318                        | 1      | Plate                                     |
|             | 20     | M10x25                            | 2      | Bolt                                      |
|             | 21     | 85-1601026                        | 1      | Shaft                                     |
|             | 22     | 2.2-38x58-1                       | 1      | Collar                                    |
|             | 23     | 80-1601113-01 or<br>1222-1601113* | 1<br>1 | Shaft<br>Shaft                            |
|             | 23a    | C45*                              | 1      | Ring                                      |
|             | 24     | 80C-1601061 or<br>2022-1601061*   | 1<br>1 | Bushing<br>Bushing                        |
|             | 25     | 305A                              | 1      | Bearing                                   |
|             | 26     | 80-1601357-B                      | 1      | Gear                                      |
|             | 27     | C35                               | 1      | Ring                                      |
|             | 28     | 207                               | 1      | Bearing                                   |
|             | 29     | 80-1601071-B                      | 1      | Gear shaft                                |
|             | 30     | 80-1601182                        | 1      | Gear                                      |
|             | 31     | 80-1601181                        | 1      | Axis                                      |
|             | 32     | 204A                              | 1      | Bearing                                   |
|             | 33     | C47                               | 1      | Ring                                      |
|             | 34     | 80-1601356                        | 1      | Thrust washer                             |
|             | 35     | 70-3003032                        | 1      | Nut                                       |
|             | 36     | 3,2x25                            | 1      | Forelock                                  |
|             | 37     | 80-1601219-B                      | 1      | Lever                                     |
|             | 38     | 80-4608024                        | 1      | Ring                                      |

\* Variant for GB 24Fx12R

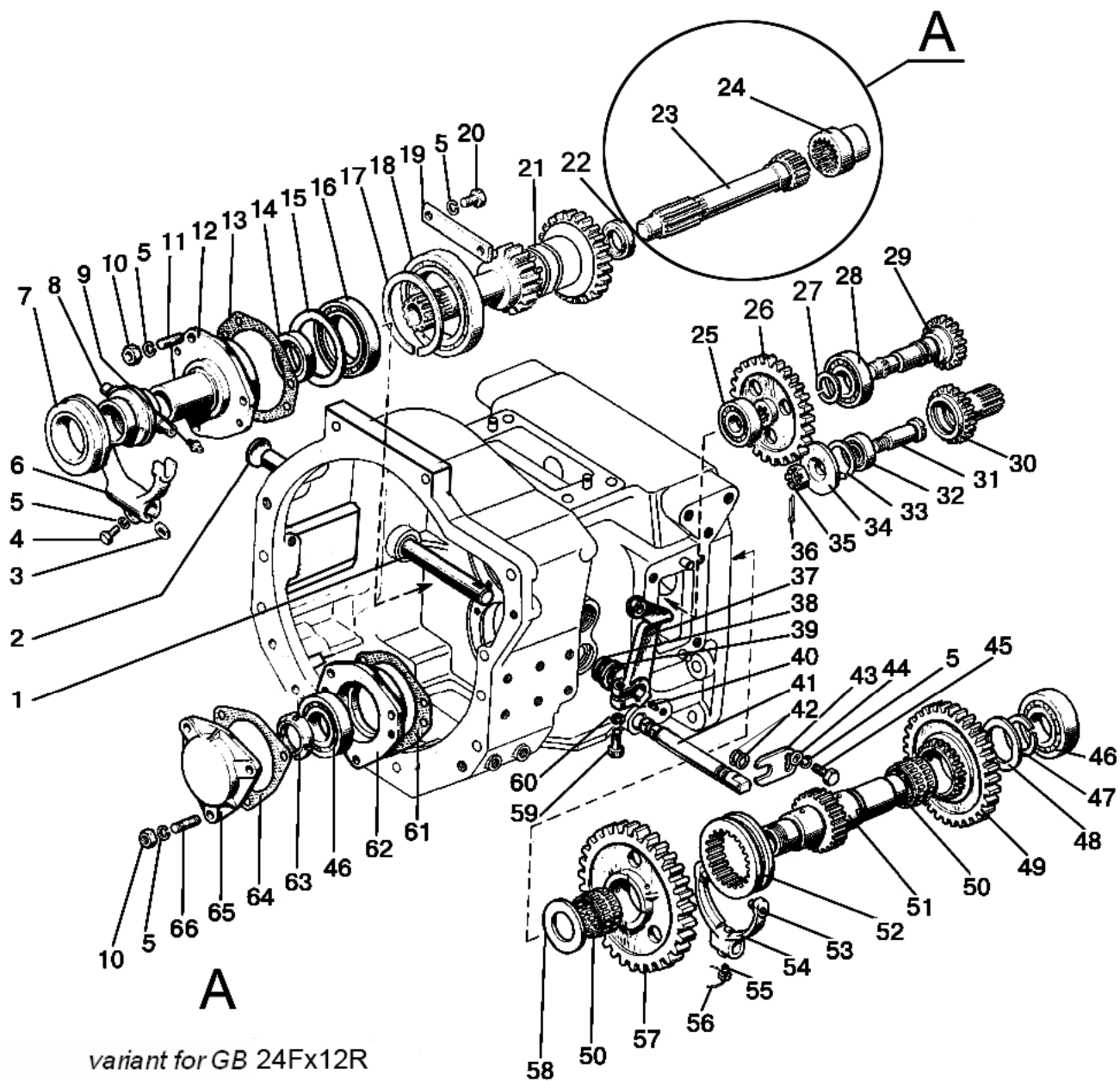
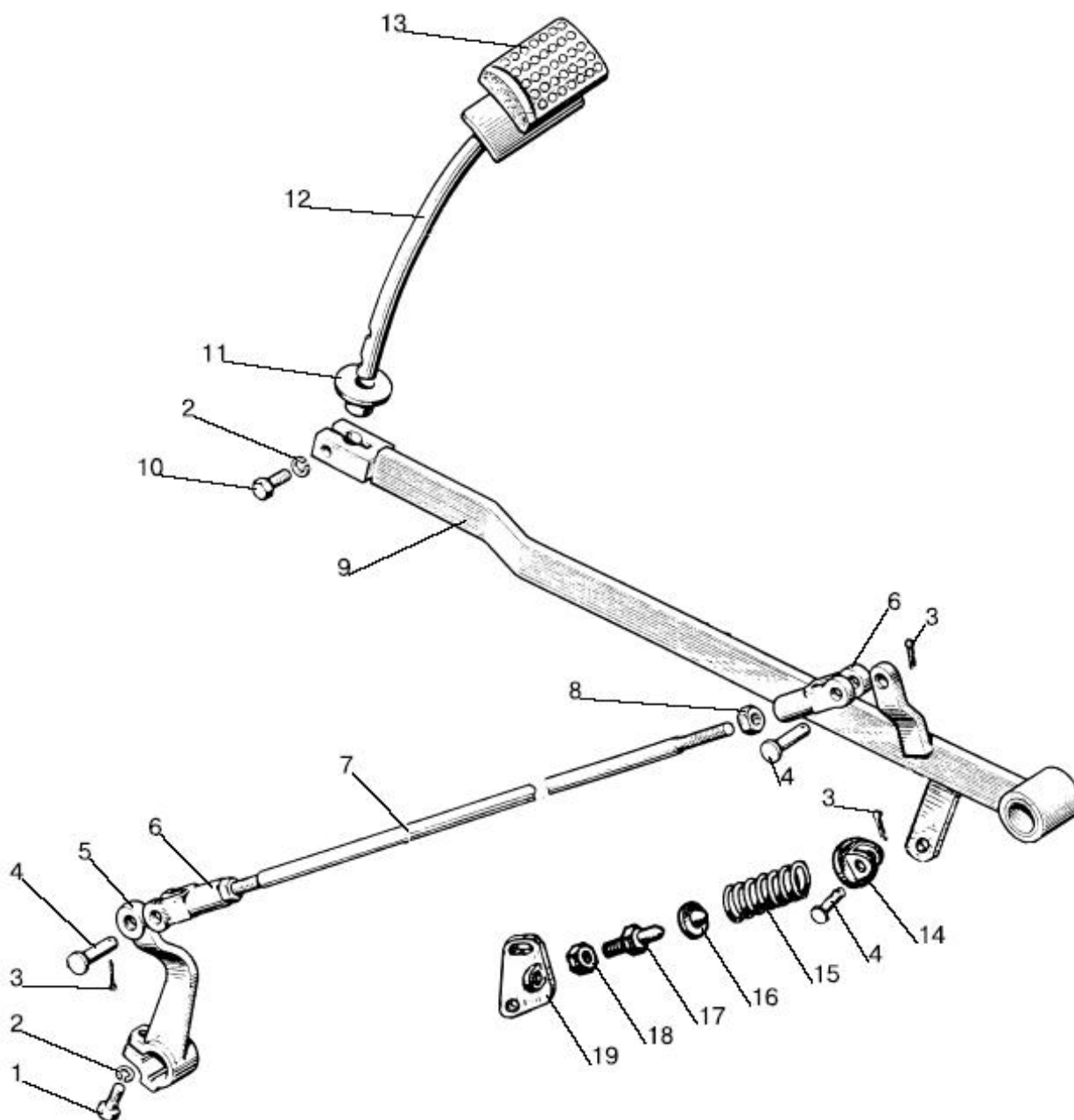


Fig. 16.3 Clutch housing

**Group 16. Clutch**  
**Subgroup 1601. Clutch housing**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty      | Name      |
|-------------|--------|------------------------------|-----------|-----------|
| <b>16.3</b> | 39     | 36-1601016                   | 1         | Housing   |
|             | 40     | СШ-611                       | 1         | Key 6x11  |
|             | 41     | 85-1601111                   | 1         | Shaft     |
|             | 42     | 020-025-30-1-6               | 2         | Ring      |
|             | 43     | 85-1601099                   | 1         | Plate     |
|             | 44     | ШЧ 10                        | 1         | Washer    |
|             | 45     | M10x20                       | 1         | Bolt      |
|             | 46     | 209A                         | 2         | Bearing   |
|             | 47     | 2C50                         | 1         | Ring      |
|             | 48     | 80-1601083                   | 1         | Washer    |
|             | 49     | 80-1601086-A                 | 1         | Gear      |
|             | 50     | 664910E                      | 2         | Bearing   |
|             | 51     | 80-1601021                   | 1         | Shaft     |
|             | 52     | 112-1701343                  | 1         | Clutch    |
|             | 53     | 70-1601114                   | 2         | Pin       |
|             | 54     | 80-1601191                   | 1         | Yoke      |
|             | 55     | 50-4604046                   | 1         | Yoke bolt |
|             | 56     | 1,0-O-C                      | 150<br>mm | Wire      |
|             | 57     | 80-1601088-A                 | 1         | Gear      |
|             | 58     | 80-1601082                   | 1         | Washer    |
|             | 59     | M12x35                       | 1         | Bolt      |
|             | 60     | ШП 12                        | 1         | Washer    |
|             | 61     | 80-1601091                   | 1         | Gasket    |
|             | 62     | 80-1601041                   | 1         | Sleeve    |
|             | 63     | 80-1701045                   | 1         | Nut       |
|             | 64     | 80-1601092                   | 1         | Gasket    |
|             | 65     | 80-1601089                   | 1         | Cover     |
|             | 66     | M10x3p/6gx35                 | 3         | Stud      |



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**Group 16. Clutch**  
**Subgroup 1602. Clutch control**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name          |
|-------------|--------|------------------------------|------|---------------|
| <b>16.4</b> |        | 85-1602110                   | 1    | Rod (6, 7, 8) |
|             | 1      | M12-35                       | 1    | Bolt          |
|             | 2      | ШП 12                        | 2    | Washer        |
|             | 3      | 3,2x18                       | 3    | Forelock      |
|             | 4      | 12x32                        | 3    | Pin           |
|             | 5      | 80-1601219-Б                 | 1    | Lever         |
|             | 6      | 50-3502203                   | 2    | Yoke          |
|             | 7      | 85-1602112                   | 1    | Rod           |
|             | 8      | M12x1,25                     | 2    | Nut           |
|             | 9      | 85-1602020-Б                 | 1    | Pedal         |
|             | 10     | M12x30                       | 1    | Bolt          |
|             | 11     | 80-3503158-A                 | 1    | Seal          |
|             | 12     | 80-1602040-Б                 | 1    | Pedal stem    |
|             | 13     | A13.33.002                   | 1    | Case          |
|             | 14     | 50-1602027                   | 1    | Thrust        |
|             | 15     | 50-1602032                   | 1    | Spring        |
|             | 16     | 50-1602029                   | 1    | Thrust washer |
|             | 17     | 80-1602033                   | 1    | Thrust bolt   |
|             | 18     | M16                          | 1    | Nut           |
|             | 19     | 1221-1602075                 | 1    | Bracket       |



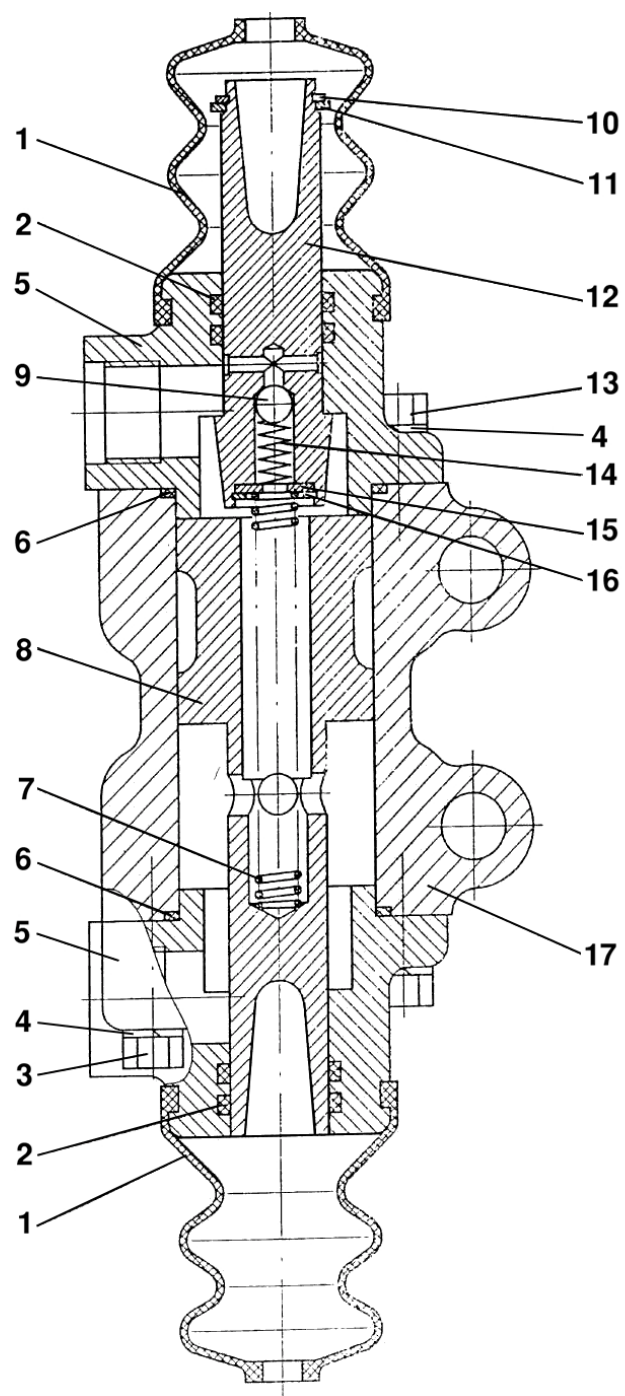


Fig. 16.5. Hydraulic booster

**Group 16. Clutch**  
**Subgroup 1602. Hydraulic booster**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name              |
|-------------|--------|------------------------------|------|-------------------|
| <b>16.5</b> |        | 80-1602510                   | 1    | Hydraulic booster |
|             | 1      | 142-1602543                  | 2    | Case              |
|             | 2      | 020-025-30-1-4               | 4    | Ring              |
|             | 3      | M8x40                        | 4    | Bolt              |
|             | 4      | ШП 8                         | 8    | Washer            |
|             | 5      | 80-1602512                   | 2    | Cover             |
|             | 6      | 040-044-25-1-2               | 2    | Ring              |
|             | 7      | 80B-1602046                  | 1    | Spring            |
|             | 8      | 80-1602513                   | 1    | Piston            |
|             | 9      | 6,350-100                    | 1    | Ball              |
|             | 10     | C18                          | 1    | Ring              |
|             | 11     | 80-1602514                   | 1    | Ring              |
|             | 12     | 80-1602521                   | 1    | Lifter            |
|             | 13     | M8x25                        | 4    | Bolt              |
|             | 14     | 80-3405044                   | 1    | Spring            |
|             | 15     | ШЧ 5                         | 1    | Washer            |
|             | 16     | C16                          | 1    | Ring              |
|             | 17     | 80-1602511                   | 1    | Housing           |

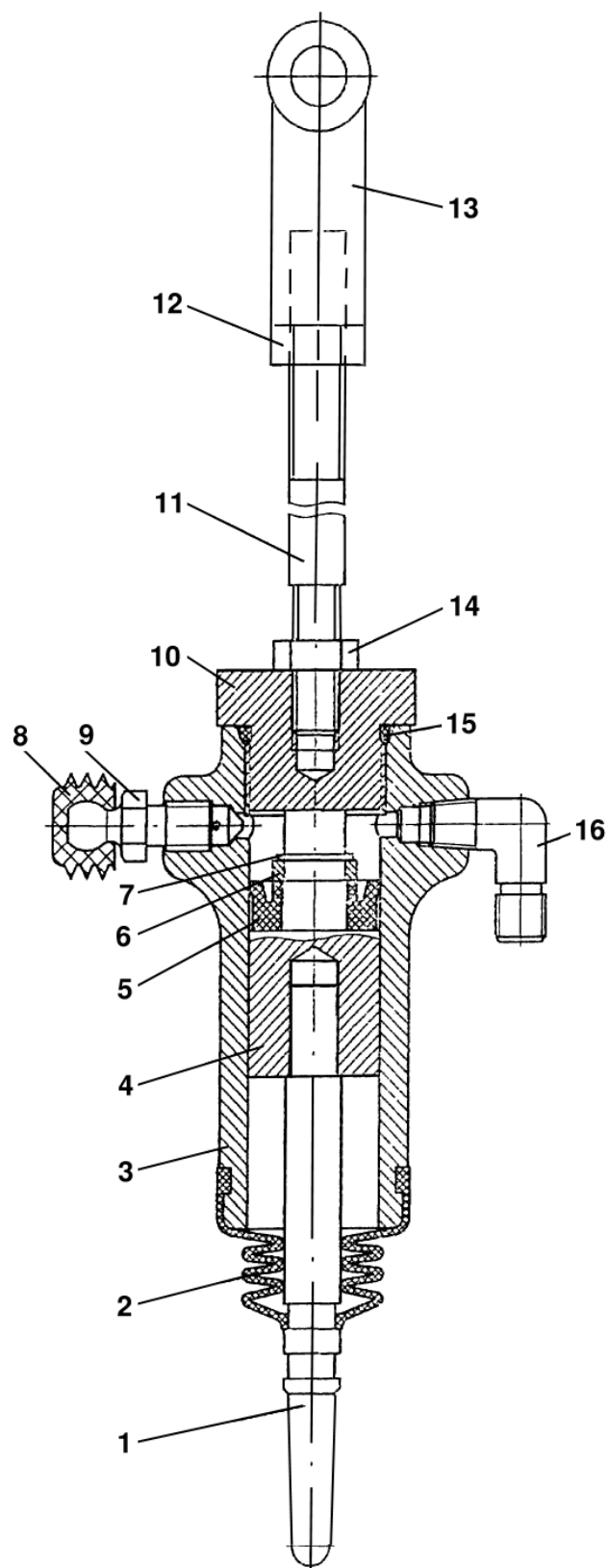


Fig. 16.6. Working cylinder

**Group 16. Clutch**  
**Subgroup 1602. Working cylinder**

| Fig.No      | Pos.No | Assembly unit or part number                  | Q-ty | Name             |
|-------------|--------|-----------------------------------------------|------|------------------|
| <b>16.6</b> |        | 1221B-1602550                                 | 1    | Working cylinder |
|             | 1      | 80B-1602557                                   | 1    | Push rod         |
|             | 2      | 142-1602569                                   | 1    | Case             |
|             | 3      | 1221B-1602551                                 | 1    | Housing          |
|             | 4      | 1221B-1602556                                 | 1    | Piston           |
|             | 5      | N14-102 (14x28x10) Simrit<br>85 EPDMV MOO 282 | 1    | Collar           |
|             | 6      | 1221B-1602517-B                               | 1    | Distance bushing |
|             | 7      | C13                                           | 1    | Ring             |
|             | 8      | 142-1602377                                   | 1    | Cap              |
|             | 9      | 142-1602371                                   | 1    | Valve            |
|             | 10     | 1221B-1602561                                 | 1    | Cover            |
|             | 11     | 1221B-1602562-B                               | 1    | Rod              |
|             | 12     | M12x1,25                                      | 1    | Nut              |
|             | 13     | 50-3502203                                    | 1    | Yoke             |
|             | 14     | M10                                           | 1    | Nut              |
|             | 15     | 027-031-25-2-6                                | 1    | Ring             |
|             | 16     | 822-3503037                                   | 1    | Threaded elbow   |

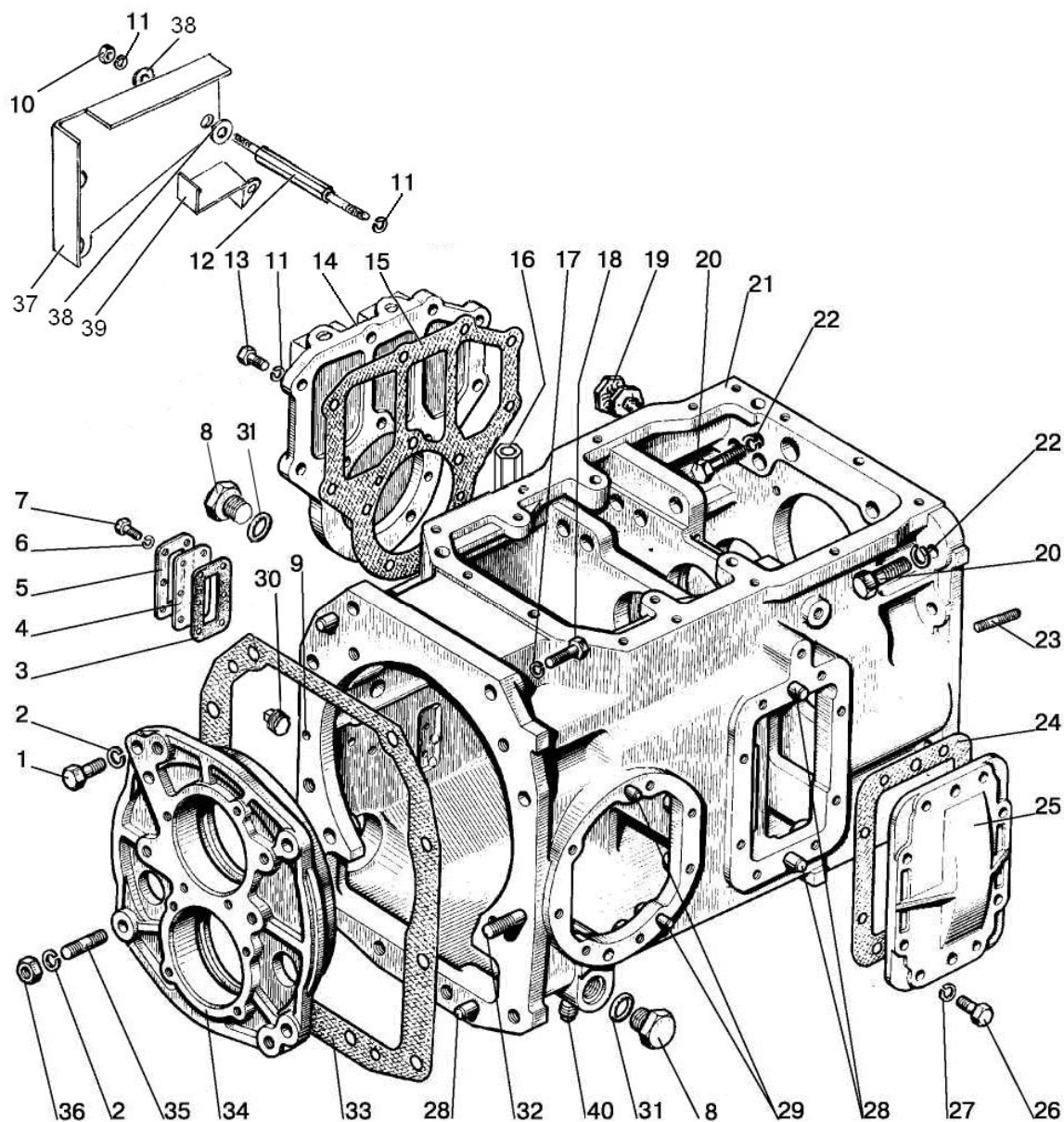
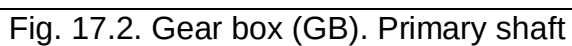


Fig. 17.1. Gear box (GB)

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                                              |
|--------|--------|------------------------------|------|---------------------------------------------------|
| 17.1   |        | 112-1700010-A-10             |      | Gear box (GB)                                     |
|        | 1      |                              | 3    | Bolt M16-6gx45.88.35.019 GOST 7796-70             |
|        | 2      |                              | 4    | Washer 16 OT OST 37.001.115-75                    |
|        | 3      | 85-4608086-A                 | 1    | Gasket                                            |
|        | 4      | 85-4608087                   | 1    | Indicator                                         |
|        | 5      | 85-4608088                   | 1    | Plate                                             |
|        | 6      |                              | 6    | Washer 6T OST 37.001.115-75                       |
|        | 7      |                              | 6    | Bolt M6-6gx16.88.35.019 GOST 7798-70              |
|        | 8      | 80-4608021                   | 2    | Blind plug                                        |
|        | 9      |                              | 1    | Ball 10,0-60 GOST 3722-81                         |
|        | 10     |                              | 3    | Nut M10-6H.6.019 GOST 5915-70                     |
|        | 11     |                              | 12   | Washer10 OT OST 37.001.115-75                     |
|        | 12     | 1221-1802094                 | 3    | Stud                                              |
|        | 13     |                              | 6    | Bolt M10-6gx35.88.35.019 GOST 7796-70             |
|        | 14     | 1221-1802016                 | 1    | Cover                                             |
|        | 15     | 80-1701399-B                 | 1    | Gasket                                            |
|        | 16     | 1221-1737099                 | 1    | Union body                                        |
|        | 17     |                              | 4    | Washer 20 OT OST 37.001.115-75                    |
|        | 18     | 70-4605036                   | 4    | Bolt                                              |
|        | 19     | 50-1002318-B                 | 2    | Eye-bolt                                          |
|        | 20     |                              | 8    | Bolt M18-6gx55.88.35.019 GOST 7796-70             |
|        | 21     | 80-1701025-A *               | 1    | Housing                                           |
|        | 22     |                              | 8    | Washer 18 OT OST 37.001.115-75                    |
|        | 23     | 112-1701524                  | 2    | Stud                                              |
|        | 24     | 50-1701456-A                 | 1    | Gasket                                            |
|        | 25     | 70-1701454A2-01              | 1    | Cover                                             |
|        | 26     |                              | 7    | Bolt M12-6gx30.88.35.019 GOST 7796-70             |
|        | 27     |                              | 7    | Washer 12 OT OST 37.001.115-75                    |
|        | 28     | Д01-015                      | 4    | Pin                                               |
|        | 29     | ШЦК10x25                     | 2    | Pin                                               |
|        | 30     | КГ 1/8"                      | 1    | Plug                                              |
|        | 31     |                              | 2    | Ring 027-032-30-1-4<br>GOST 18829-73/GOST 9833-73 |
|        | 32     | 80-1701252                   | 1    | Stud                                              |
|        | 33     | 80-1701026                   | 1    | Gasket                                            |
|        | 34     | 80-1701034-01                | 1    | Sleeve                                            |
|        | 35     | 80-1701204                   | 1    | Stud                                              |
|        | 36     |                              | 1    | Nut M16-6H.6.019 GOST 5915-70                     |
|        | 37     | 1221-1802093                 | 1    | Shield                                            |
|        | 38     |                              | 6    | Washer C 10.01.019 GOST 11371-78                  |
|        | 39     | 1221-1802089-A               | 1    | Joke                                              |
|        | 40     | ПК КГ 3/8"                   | 1    | Plug                                              |

\* When ordering as a spare part, 80-1701025-B housing should be ordered.



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**Subgroup 1701. Gear box (GB). Primary shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                                |
|-------------|--------|------------------------------|------|-----------------------------------------------------|
| <b>17.2</b> |        | 1221M-1701020-A              | 1    | Gear shift group (1-21, 80-1701190-01; 80C-1701040) |
|             |        | 80C-1701060-A                | 2    | Synchro unit (23-28)                                |
|             | 1      | 80C-1701036                  | 1    | Bushing                                             |
|             | 2      |                              | 3    | Bolt M12-6gx30.88.35.019 GOST 7796-70               |
|             | 3      |                              | 3    | Washer 12 OT OST 37.001.115-75                      |
|             | 4      | 80C-1701035                  | 1    | Cover                                               |
|             | 5      | 80-1701045                   | 2    | Nut                                                 |
|             | 6      | 80-1701056                   | 2    | Washer                                              |
|             | 7      |                              | 1    | Bearing 409 GOST 8338-75                            |
|             | 8      | 80-1601082                   | 2    | Washer                                              |
|             | 9      |                              | 2    | Bearing 664910E<br>TU RB 00234873.003-99            |
|             | 10     | 1522C-1701048                | 1    | Gear                                                |
|             | 11     |                              | 2    | Ring 2C60 GOST 13940-86                             |
|             | 12     | 80C-1701033                  | 2    | Bushing                                             |
|             | 13     | 80C-1701060-A                | 2    | Synchro unit                                        |
|             | 14     | 1521-1701042                 | 1    | Gear                                                |
|             | 15     |                              | 2    | Bearing 664913E<br>TU RB 00234873.003-99            |
|             | 16     | 86-1802088                   | 1    | Elbow                                               |
|             | 17     | 80C-1701032                  | 1    | Shaft                                               |
|             | 18     | 80-1701053                   | 1    | Throttle                                            |
|             | 19     | 1522C-1701052                | 1    | Gear                                                |
|             | 20     | 1522C-1701054                | 1    | Gear                                                |
|             | 21     |                              | 1    | Bearing 309K GOST 8338-75                           |
|             | 22     | 80-3405044                   | 3    | Spring                                              |
|             | 23     |                              | 3    | Ball 7,938-100 GOST 3722-81                         |
|             | 24     | 80C-1701062-B                | 2    | Ring                                                |
|             | 25     | 80C-1701064-B                | 1    | Slide                                               |
|             | 26     | 80C-1701061                  | 3    | Pin                                                 |
|             | 27     | 80C-1701063-B                | 3    | Pin                                                 |



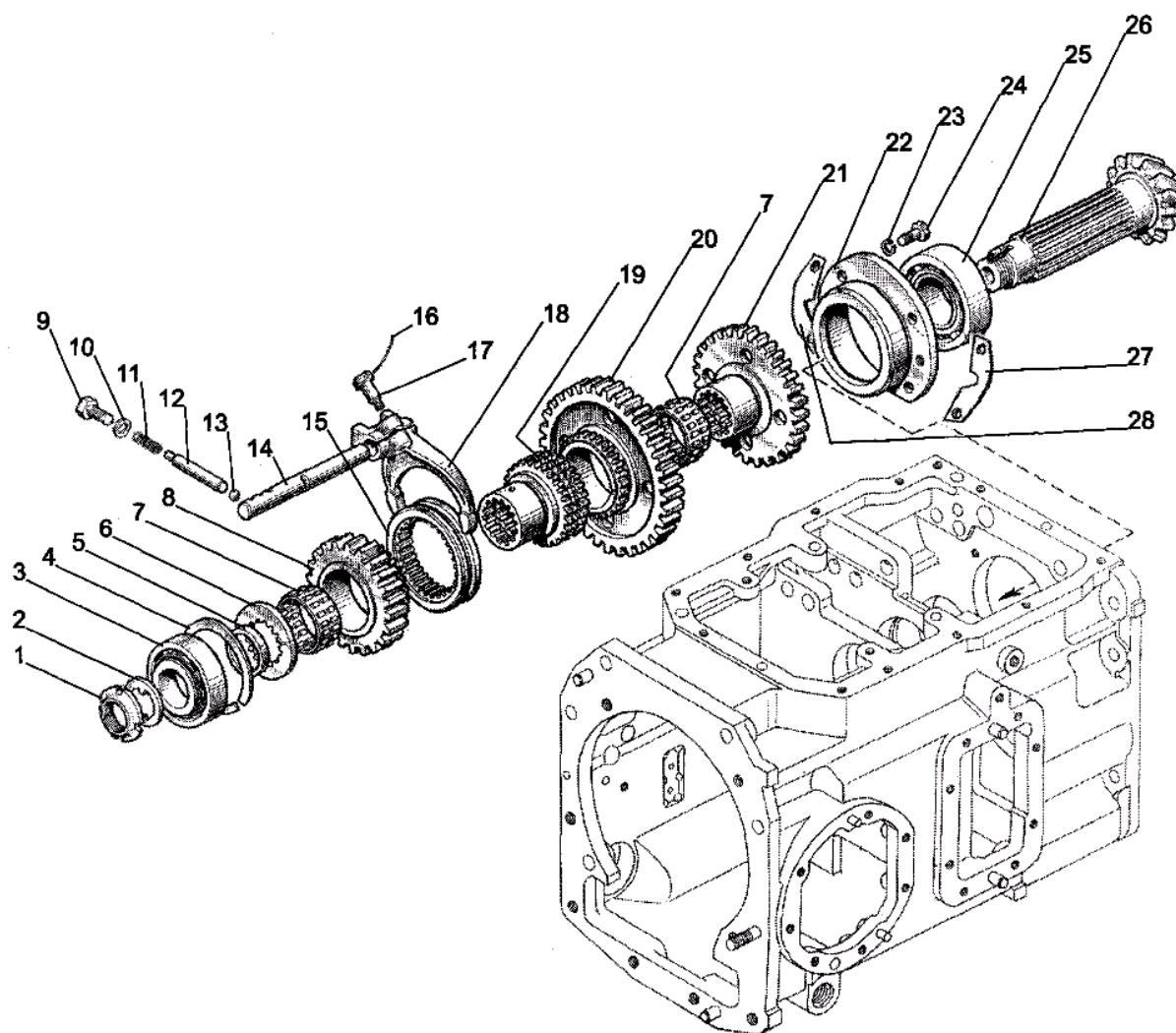


Fig. 17.3. Gear box (GB). Secondary shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Secondary shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                  |
|-------------|--------|------------------------------|------|---------------------------------------|
| <b>17.3</b> | 1      | 80-1701045                   | 1    | Nut                                   |
|             | 2      | 80-1701056                   | 1    | Washer                                |
|             | 3      |                              | 1    | Bearing 7310A GOST 27365-87           |
|             | 4      | 80-1701256                   | 1    | Ring                                  |
|             | 5      | 80-1701254                   | 1    | Bushing                               |
|             | 6      | 80-1701354                   | 1    | Washer                                |
|             | 7      |                              | 2    | Bearing 664714E GOST 24310-80         |
|             | 8      | 112-1701314                  | 1    | Gear                                  |
|             | 9      |                              | 1    | Bolt M12-6gx25.88.35.019 GOST 7796-70 |
|             | 10     | 85-1702051                   | 1    | Washer                                |
|             | 11     | 50-1702148-A                 | 1    | Spring                                |
|             | 12     | 85-1702048                   | 1    | Pin                                   |
|             | 13     |                              | 1    | Ball 10,0-60 GOST 3722-81             |
|             | 14     | 85-1702037-B                 | 1    | Shifter arm                           |
|             | 15     | 112-1701316                  | 1    | Clutch                                |
|             | 16     |                              | 1    | Wire 1,6-O-C GOST 3282-74             |
|             | 17     | 80-1702108                   | 1    | Bolt                                  |
|             | 18     | 85-1702029-B                 | 1    | Yoke                                  |
|             | 19     | 80-1701348                   | 1    | Bushing                               |
|             | 20     | 112-1701312                  | 1    | Gear                                  |
|             | 21     | 80-1701313-B                 | 1    | Gear                                  |
|             | 22     | 80-1701141-B                 | 1    | Sleeve                                |
|             | 23     |                              | 4    | Washer 10 OT OST 37.001.115-75        |
|             | 24     |                              | 4    | Bolt M10-6gx30.88.35.019 GOST 7796-70 |
|             | 25     |                              | 1    | Bearing 7712A GOST 27365-87           |
|             | 26     | 80-1701252-B                 | 1    | Shaft                                 |
|             | 27     | 50-1701258                   | 1-6  | Gasket                                |
|             | 28     | 50-1701259                   | 1-4  | Gasket                                |

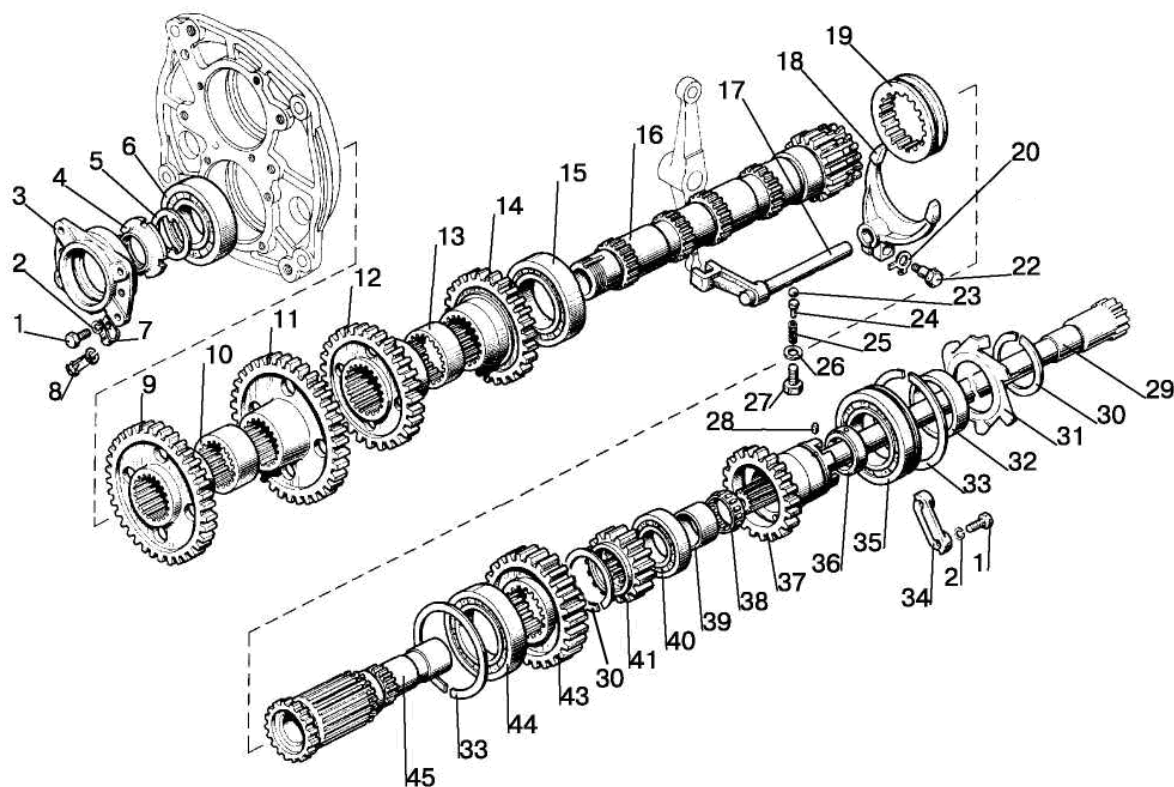


Fig. 17.4. Gear box (GB). Intermediate shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Intermediate shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                        |
|-------------|--------|------------------------------|------|---------------------------------------------|
| <b>17.4</b> |        | 1221M-1701190-E              | 1    | Intermediate shaft (9-16)                   |
|             |        | 112-1701200                  | 1    | Gear(28, 30-33, 35-40)                      |
|             |        | 112-1701230                  | 1    | Gear(28, 36, 37)                            |
|             | 1      |                              | 8    | Bolt M10-6gx30.88.35.019 GOST 7796-70       |
|             | 2      |                              | 8    | Washer 10 OT OST 37.001.115-75              |
|             | 3      | 80-1701151                   | 1    | Sleeve                                      |
|             | 4      | 80-1701047                   | 1    | Nut                                         |
|             | 5      | 80-1701186                   | 1    | Washer                                      |
|             | 6      |                              | 1    | Bearing 311A GOST 8338-75                   |
|             | 7      | 70-1115012                   | 1    | Clamp                                       |
|             | 8      | 48A-3801023                  | 1    | Pipe                                        |
|             | 9      | 1522-1701214                 | 1    | Gear                                        |
|             | 10     | 80-1701213                   | 1    | Bushing                                     |
|             | 11     | 1521-1701212                 | 1    | Gear                                        |
|             | 12     | 1522-1701216                 | 1    | Gear                                        |
|             | 13     | 80-1701217                   | 1    | Bushing                                     |
|             | 14     | 1522-1701219                 | 1    | Gear                                        |
|             | 15     |                              | 1    | Bearing 3514H GOST 5721-75                  |
|             | 16     | 80-1701182                   | 1    | Intermediate shaft                          |
|             | 17     | 85-1702038                   | 1    | Shifter arm                                 |
|             | 18     | 85-1702034                   | 1    | Yoke                                        |
|             | 19     | 80-1701184                   | 1    | Clutch                                      |
|             | 20     | 80-1702311                   | 1    | Washer                                      |
|             | 22     | 80-1702108                   | 1    | Bolt                                        |
|             | 23     |                              | 1    | Ball 10,0-60 GOST 3722-81                   |
|             | 24     | 80-1704039                   | 1    | Guide                                       |
|             | 25     | 50-1702148-A                 | 1    | Spring                                      |
|             | 26     | 85-1702051                   | 1    | Washer                                      |
|             | 27     |                              | 1    | Bolt M12-6gx55.88.35.019 GOST 7795-70       |
|             | 28     |                              | 1    | Pin 2.4x8 GOST 3128-70                      |
|             | 29     | 80-1701160                   | 1    | Shaft                                       |
|             | 30     |                              | 2    | Ring 2C75 GOST 13940-86                     |
|             | 31     | 50-1701401                   | 1    | Impeller                                    |
|             | 32     | 80-1701207                   | 1    | Bushing                                     |
|             | 33     | 80-1701206                   | 2    | Ring                                        |
|             | 34     | 80-1701205                   | 2    | Plate                                       |
|             | 35     |                              | 1    | Bearing 50215A<br>GOST 8338-75/GOST 2893-82 |
|             | 36     | 80-1701201                   | 1    | Bushing                                     |
|             | 37     | 112-1701202                  | 1    | Gear                                        |
|             | 38     |                              | 1    | Bearing 864710E GOST 24310-80               |
|             | 39     | 80-1701203                   | 1    | Bushing                                     |
|             | 40     |                              | 1    | Bearing 42210M GOST 8328-75                 |
|             | 41     | 112-1701224                  | 1    | Gear                                        |
|             | 43     | 112-1701221                  | 1    | Gear                                        |
|             | 44     |                              | 1    | Bearing 692215K1M GOST 8328-75              |
|             | 45     | 80-1701240                   | 1    | Shaft                                       |

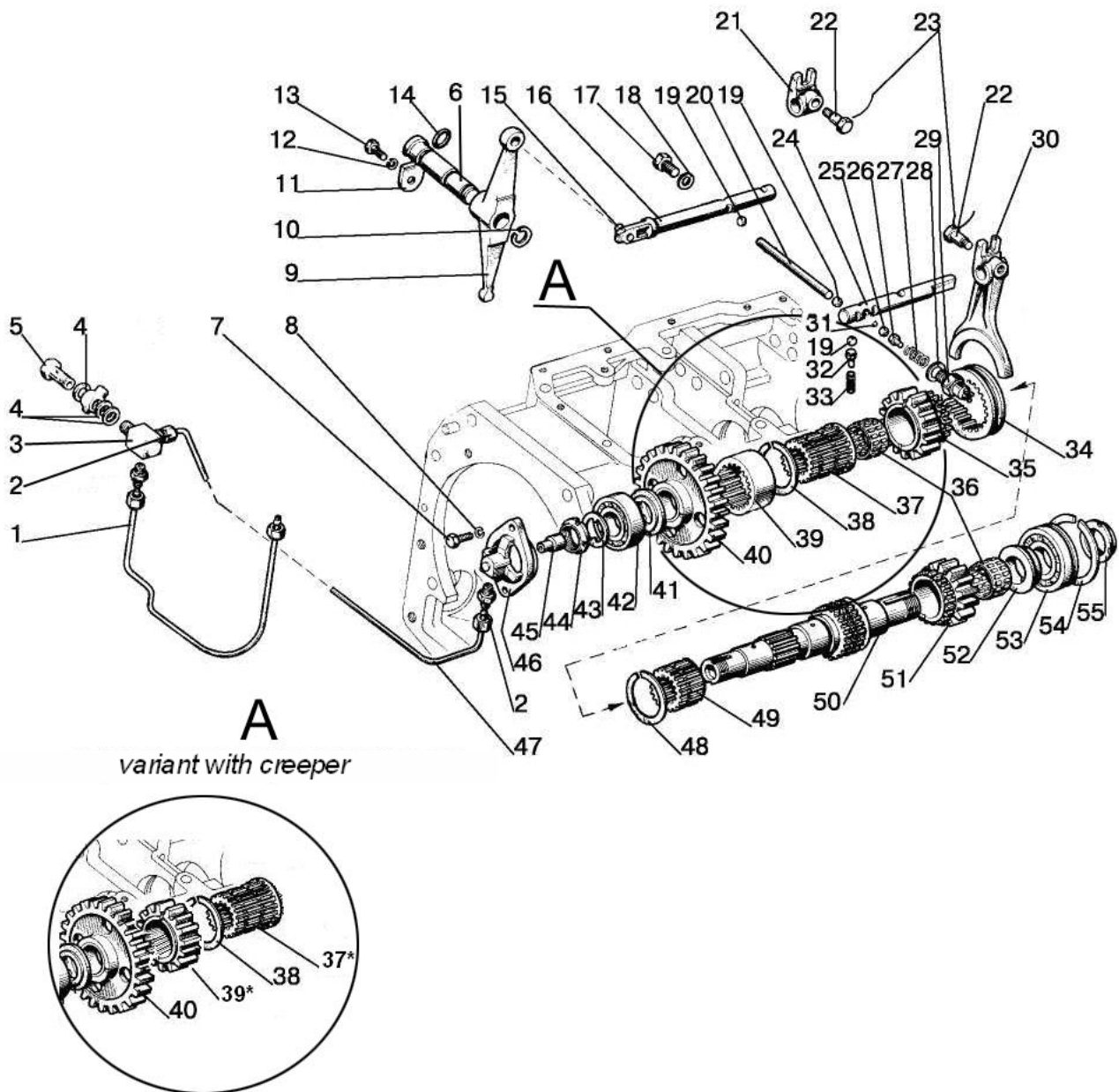


Fig. 17.5. Low gear shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Low gear shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                          |
|-------------|--------|------------------------------|------|-----------------------------------------------|
| <b>17.5</b> |        | 75-1701320                   | 1    | Shaft (35, 37, 49, 51,52)                     |
|             | 1      | 80-1701430                   | 1    | Pipe                                          |
|             | 2      | 80-1701549                   | 3    | Union body                                    |
|             | 3      | 80-1701057                   | 1    | Union body                                    |
|             | 4      | Д18-055-A                    | 3    | O-ring                                        |
|             | 5      | 240-1111103                  | 1    | Bolt                                          |
|             | 6      | 85-1702042                   | 1    | Axis                                          |
|             | 7      |                              | 2    | Bolt M8-6gx20.88.35.019 GOST 7796-70          |
|             | 8      |                              | 2    | Washer 8T OST 37.001.115-75                   |
|             | 9      | 85-1702041                   | 1    | Rocking arm                                   |
|             | 10     |                              | 1    | Ring C25 GOST 13940-86                        |
|             | 11     | 85-1702043                   | 1    | Plate                                         |
|             | 12     |                              | 1    | Washer 10 OT OST 37.001.115-75                |
|             | 13     |                              | 1    | Bolt M10-6gx20.88.35.019 GOST 7796-70         |
|             | 14     |                              | 1    | Ring 026-030-25-2-2 GOST 18829-73/GOST9833-73 |
|             | 15     | 85-1702049                   | 1    | Pin                                           |
|             | 16     | 85-1702039                   | 1    | Shifter arm                                   |
|             | 17     |                              | 1    | Bolt M12-6gx25.88.35.019 GOST 7796-70         |
|             | 18     | 85-1702051                   | 1    | Washer                                        |
|             | 19     |                              | 3    | Ball 10,0-60 GOST 3722-81                     |
|             | 20     | 85-1702046                   | 1    | Pin                                           |
|             | 21     | 85-1702045                   | 1    | Shifter arm                                   |
|             | 22     | 80-1702108                   | 2    | Bolt                                          |
|             | 23     |                              | 2    | Wire 1,6-O-C GOST 3282-74                     |
|             | 24     | 85-1702035                   | 1    | Shifter arm                                   |
|             | 25     |                              | 1    | Ball 12,7-60 GOST 3722-81                     |
|             | 26     | 85-1702305                   | 1    | Pin                                           |
|             | 27     | 12-23-668-A                  | 1    | Spring                                        |
|             | 28     | 50-1702048                   | 10   | Shim                                          |
|             | 29     | BK12-41                      | 1    | Switch                                        |
|             | 30     | 85-1702027                   | 1    | Yoke                                          |
|             | 31     | 85-1702301                   | 1    | Axis                                          |
|             | 32     | 80-1704039                   | 1    | Guide                                         |
|             | 33     | 50-1702148-A                 | 1    | Spring                                        |
|             | 34     | 112-1701343                  | 1    | Clutch                                        |
|             | 35     | 112-1701351                  | 1    | Gear                                          |
|             | 36     |                              | 2    | Bearing 664910E TU RB 00234873.003-99         |
|             | 37     | 80-1701346                   | 1    | Bushing                                       |
|             | 37*    | 80-1701346-01                | 1    | Bushing                                       |
|             | 38     |                              | 1    | Ring 2C70 GOST 13940-86                       |
|             | 39     | 1222-1701344                 | 1    | Bushing                                       |
|             | 39*    | 1025-1701344                 | 1    | Gear                                          |
|             | 40     | 80-1701340                   | 1    | Gear                                          |
|             | 41     | 80-1701306                   | 1    | Washer                                        |
|             | 42     |                              | 1    | Bearing 12507KM GOST 8328-75                  |
|             | 43     | 86-1802052                   | 1    | Washer                                        |
|             | 44     | 52-2308097                   | 1    | Nut                                           |
|             | 45     | 80-1701053                   | 1    | Throttle                                      |
|             | 46     | 80-1701311-A                 | 1    | Sleeve                                        |
|             | 47     | 80-1701420                   | 1    | Pipe                                          |
|             | 48     | 54-31-472                    | 1    | Spring ring                                   |

\* For tractors with an optional creeper mounting.

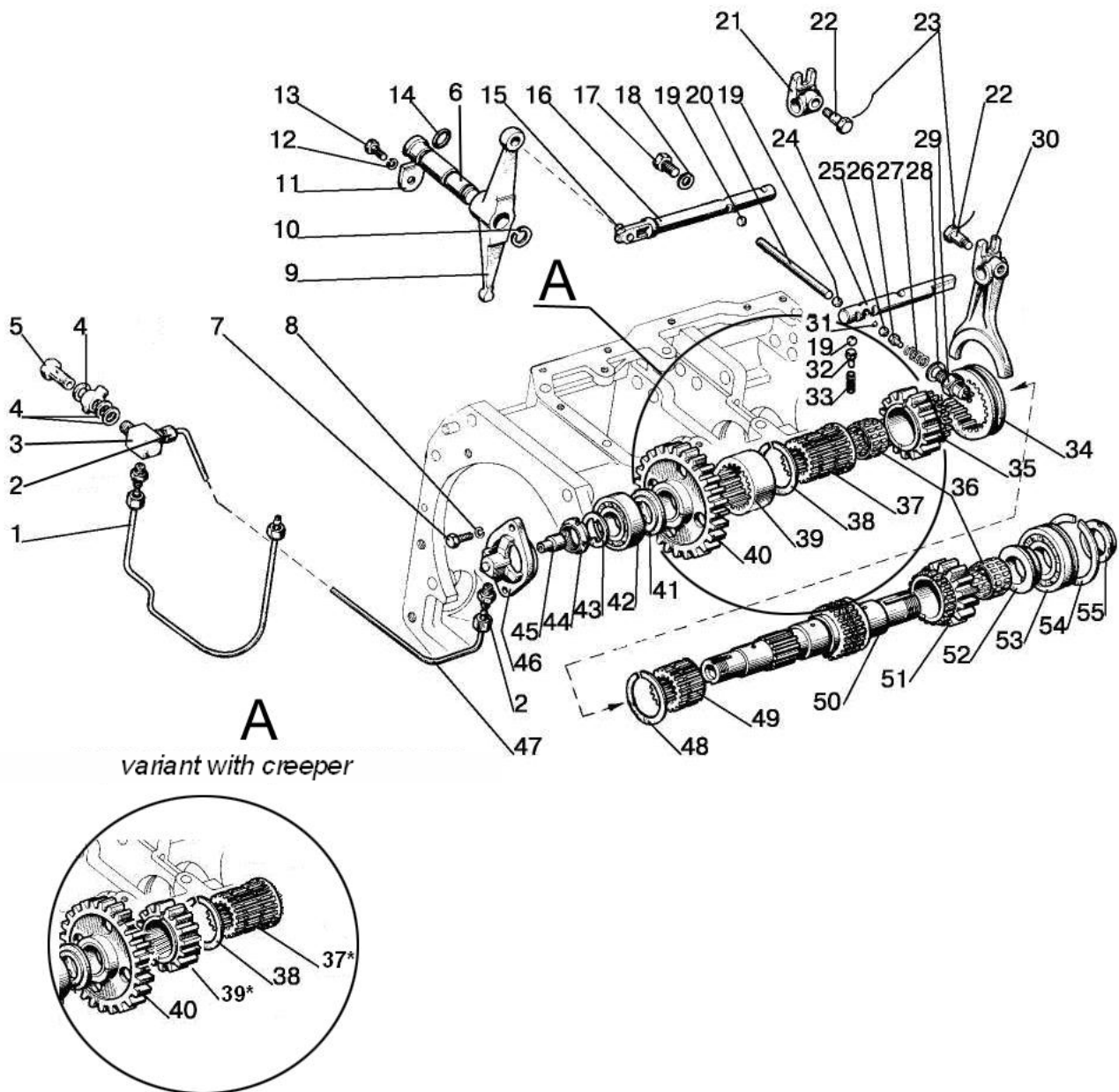


Fig. 17.5. Low gear shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Low gear shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                          |
|-------------|--------|------------------------------|------|-------------------------------|
| <b>17.5</b> | 49     | 75-1701352                   | 1    | Bushing                       |
|             | 50     | 75-1701335                   | 1    | Shaft                         |
|             | 51     | 112-1701361                  | 1    | Gear                          |
|             | 52     | 80-1701339                   | 1    | Bushing                       |
|             | 53     |                              | 1    | Bearing 692309KM GOST 8328-75 |
|             | 54     | 80-1701396                   | 1    | Ring                          |
|             | 55     | 80-1701045                   | 1    | Nut                           |



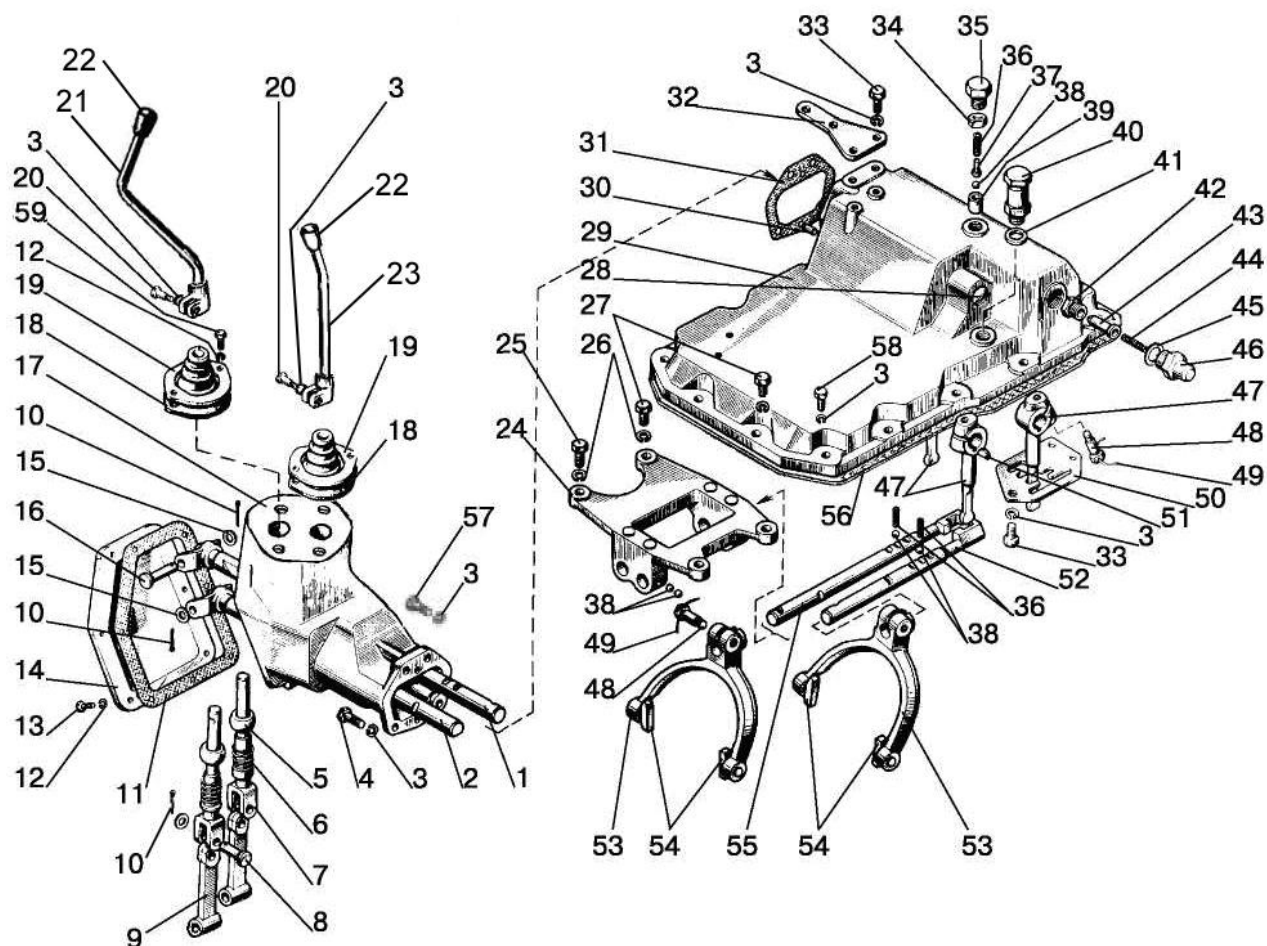


Fig. 17.6. GB control mechanism

**Subgroup 1702. GB control mechanism**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                                |
|-------------|--------|------------------------------|------|-----------------------------------------------------|
| <b>17.6</b> |        | 80-1702010                   | 1    | Control mechanism (1-20, 27, 28, 29-50)             |
|             |        | 80C-1702080                  | 1    | Housing (80C-1702090-B, 24, 38, 48, 49, 52, 55, 56) |
|             |        | 80C-1702090-B                | 2    | Yoke (53, 54)                                       |
|             |        | 80C-1702300                  | 1    | Retainer (42-46)                                    |
|             | 1      | 80C-1702060                  | 1    | Shaft                                               |
|             | 2      | 80C-1702070                  | 1    | Shaft                                               |
|             | 3      |                              | 18   | Washer 10 OT OST 37.001.115-75                      |
|             | 4      |                              | 2    | Bolt M10-6gx35.88.35.019 GOST 7796-70               |
|             | 5      | 142-1702032                  | 2    | Ball                                                |
|             | 6      | 77.37.117                    | 2    | Spring                                              |
|             | 7      | 80C-1702074                  | 2    | Yoke                                                |
|             | 8      |                              | 2    | Pin 12x32 OST 37.001.163-75                         |
|             | 9      | 80C-1702073                  | 2    | Lever                                               |
|             | 10     |                              | 4    | Forelock 3,2x18.019 GOST 397-79                     |
|             | 11     | 80-1702068                   | 1    | Gasket                                              |
|             | 12     |                              | 11   | Washer 6T OST 37.001.115-75                         |
|             | 13     |                              | 7    | Bolt M6-6gx16.88.35.019 GOST 7798-70                |
|             | 14     | 80-1702067                   | 1    | Cover                                               |
|             | 15     | 85-4619014                   | 2    | Washer                                              |
|             | 16     |                              | 2    | Pin 12x55 OST 37.001.163-75                         |
|             | 17     | 80-1702078-A                 | 1    | Housing                                             |
|             | 18     | 55-47-569-A                  | 2    | Case                                                |
|             | 19     | 80C-1702075                  | 2    | Washer                                              |
|             | 20     |                              | 2    | Bolt M10-6gx30.88.35.019 GOST 7796-70               |
|             | 21     | 75-1702600                   | 1    | Lever                                               |
|             | 22     | 70-1702125                   | 2    | Handle                                              |
|             | 23     | 75-1702500                   | 1    | Lever                                               |
|             | 24     | 80C-1702081                  | 1    | Housing                                             |
|             | 25     |                              | 2    | Bolt M12-6gx35.88.35.019 GOST 7796-70               |
|             | 26     |                              | 6    | Washer 12 OT OST 37.001.115-75                      |
|             | 27     | 50-1702092                   | 4    | Bolt                                                |
|             | 28     |                              | 1    | Blind plug 28-10кн.Л9.xp GOST 3111-81               |
|             | 29     | 1221-1702025                 | 1    | Cover                                               |
|             | 30     |                              | 2    | Pin 8x16 GOST 3128-70                               |
|             | 31     | 80C-1702066                  | 1    | Gasket                                              |
|             | 32     | 85-3503046                   | 1    | Bracket                                             |
|             | 33     |                              | 5    | Bolt M10-6gx25.88.35.019 GOST 7796-70               |
|             | 34     |                              | 1    | Nut M16-6H.04.019 GOST 5916-70                      |
|             | 35     | 70-1703204                   | 1    | Bolt                                                |
|             | 36     | 50-1702148-A                 | 3    | Spring                                              |
|             | 37     | 80-1704039                   | 1    | Guide                                               |
|             | 38     |                              | 5    | Ball 10,0-60 GOST 3722-81                           |
|             | 39     | 70-1703013                   | 1    | Bushing                                             |
|             | 40     | 85-1702270                   | 1    | Breather                                            |
|             | 41     | B50-3522023                  | 1    | Gasket                                              |
|             | 42     | 80C-1702301                  | 1    | Bushing                                             |
|             | 43     | 80C-1702303                  | 1    | Detent                                              |
|             | 44     | 80-1737113                   | 1    | Spring                                              |
|             | 45     | 80-1702098                   | 1    | Washer                                              |
|             | 46     | 80C-1702302                  | 1    | Housing                                             |
|             | 47     | 85-1702055                   | 3    | Lever                                               |
|             | 48     | 80-1702108                   | 5    | Bolt                                                |
|             | 49     |                              | 5    | Wire 1,6-O-C GOST 3282-74                           |

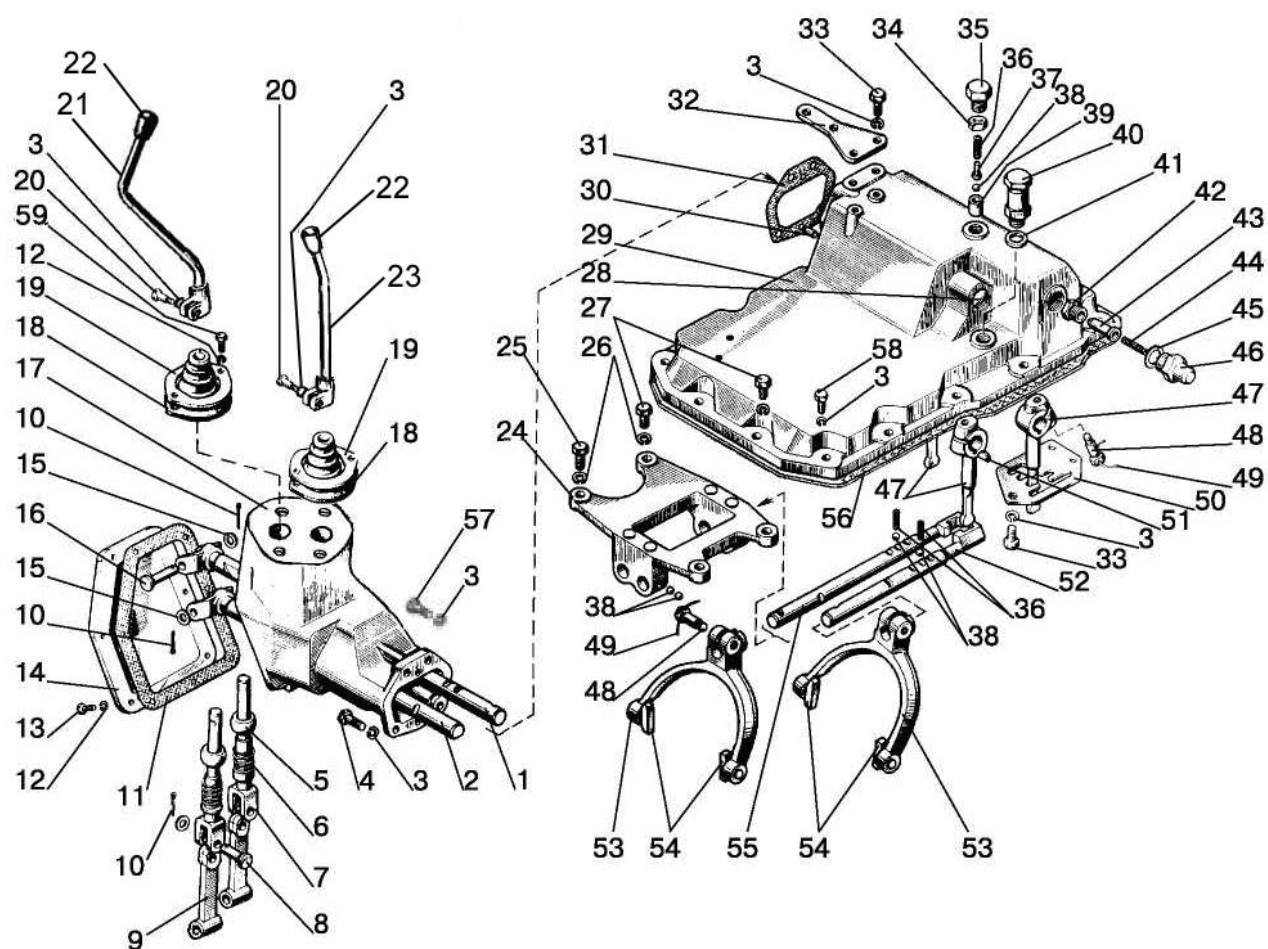


Fig. 17.6. GB control mechanism

**Group 17. Gear box (GB)**  
**Subgroup 1702. GB control mechanism**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                  |
|-------------|--------|------------------------------|------|---------------------------------------|
| <b>17.6</b> | 50     | 75-1702052-A                 | 1    | Sector                                |
|             | 51     |                              | 3    | Key 6x10 GOST 24071-97                |
|             | 52     | 80C-1702083                  | 1    | Shifter arm                           |
|             | 53     | 80C-1702091-B                | 2    | Yoke                                  |
|             | 54     | 80C-1702092                  | 4    | Cotter                                |
|             | 55     | 80C-1702082                  | 1    | Shifter arm                           |
|             | 56     | 85-1702026                   | 1    | Gasket                                |
|             | 57     |                              | 2    | Bolt M10-6gx40.88.35.019 GOST 7796-70 |
|             | 58     |                              | 12   | Bolt M10-6gx30.88.35.019 GOST 7796-70 |
|             | 59     |                              | 4    | Bolt M6-6gx20.88.35.019 GOST 7798-70  |

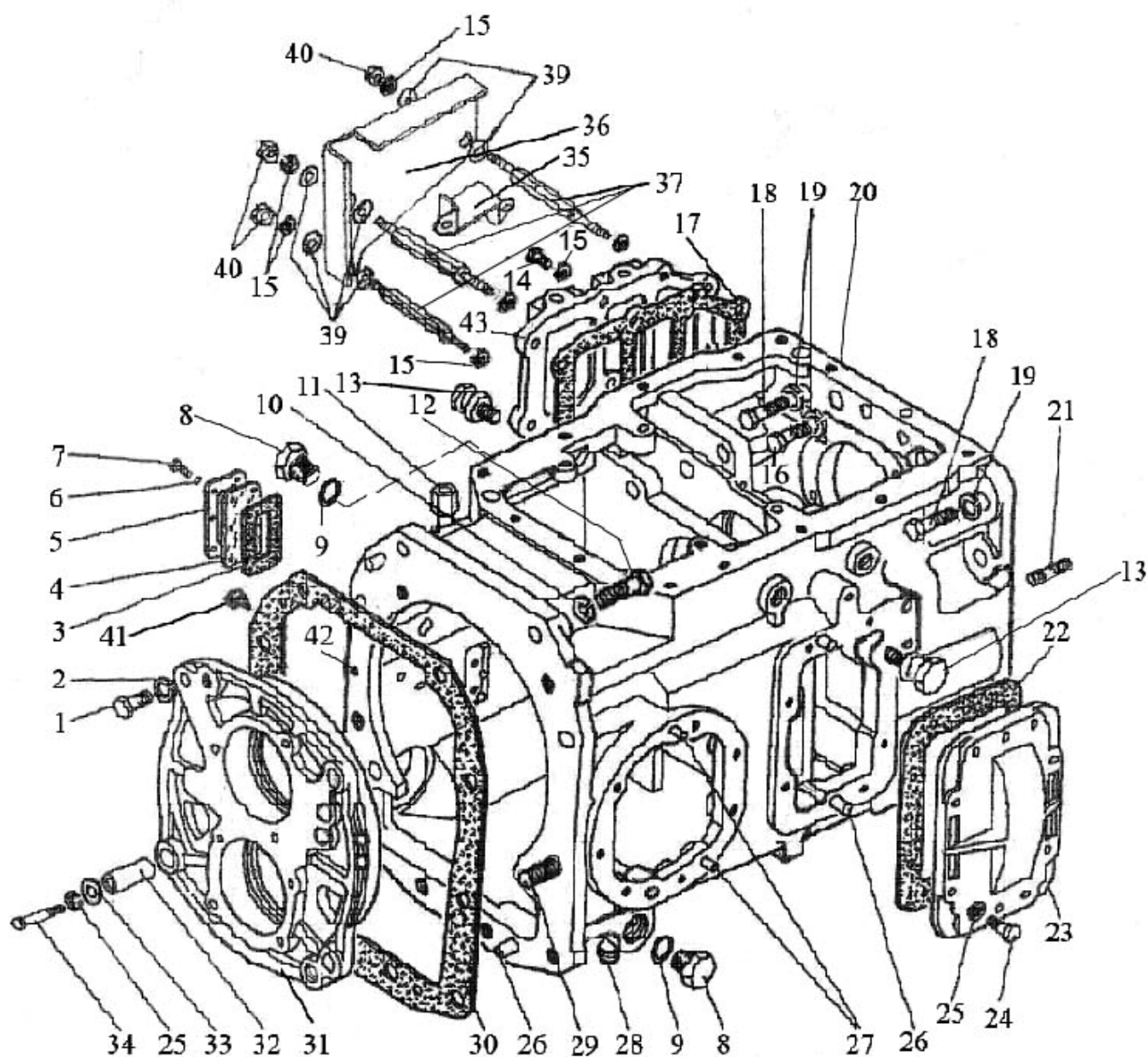


Fig. 17.7 Gear box (GB) 1222-1700010-02/-05 (24F+12R)

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB) (24F+12R)**

| Fig.No | Pos.No | Assembly unit or part number                   | Q-ty   | Name                                      |
|--------|--------|------------------------------------------------|--------|-------------------------------------------|
| 17.7   |        | 1222-1700010-02 or<br>1222-1700010-05 with r/g | 1<br>1 | Gear box (GB)<br>Gear box (GB)            |
|        | 1      | M16x45                                         | 2      | Bolt                                      |
|        | 2      | ШП16                                           | 2      | Washer                                    |
|        | 3      | 85-4608086-A                                   | 1      | Gasket                                    |
|        | 4      | 85-4608087                                     | 1      | Indicator                                 |
|        | 5      | 85-4608088                                     | 1      | Plate                                     |
|        | 6      | ШП6                                            | 6      | Washer                                    |
|        | 7      | M6x16                                          | 6      | Bolt                                      |
|        | 8      | 80-4608021                                     | 2      | Blind plug                                |
|        | 9      | 027-032-30-1-4                                 | 2      | Ring                                      |
|        | 10     | ШП20                                           | 4      | Washer                                    |
|        | 11     | 1221-1737099                                   | 1      | Union body                                |
|        | 12     | 70-4605036                                     | 4      | Bolt                                      |
|        | 13     | 50-1002318-Б                                   | 2      | Eye-bolt                                  |
|        | 14     | M10x35                                         | 6      | Bolt                                      |
|        | 15     | ШП10                                           | 12     | Washer                                    |
|        | 16     | 1221-2401011-02                                | 1      | Bolt                                      |
|        | 17     | 80-1701399-Б                                   | 1      | Gasket                                    |
|        | 18     | 1221-2401011-01                                | 8      | Bolt                                      |
|        | 19     | ШП18                                           | 9      | Washer                                    |
|        | 20     | 1222-1701025                                   | 1      | Housing                                   |
|        | 21     | 112-1701524                                    | 2      | Stud M18 3p/6gx45.66.019<br>GOST 22034-76 |
|        | 22     | 50-1701456-A                                   | 1      | Gasket                                    |
|        | 23     | 70-1701454-A2-01                               | 1      | Cover                                     |
|        | 24     | M12x30                                         | 7      | Bolt                                      |
|        | 25     | ШП12                                           | 9      | Washer                                    |
|        | 26     | Д01-015                                        | 4      | Adjusting pin                             |
|        | 27     | ШЦК 10x25                                      | 4      | Pin                                       |
|        | 28     | ПК КГ 3/8"                                     | 1      | Plug                                      |
|        | 29     | 80-1701525                                     | 1      | Stud M20 3p/6gx65.66.019<br>GOST 22034-76 |
|        | 30     | 80-1701026                                     | 1      | Gasket                                    |
|        | 31     | 1222-1701034                                   | 1      | Sleeve                                    |
|        | 32     | 1222-1701071                                   | 2      | Pin                                       |
|        | 33     | 1222-1701072                                   | 2      | Washer                                    |
|        | 34     | M12x60                                         | 2      | Bolt                                      |
|        | 35     | 1221-1802089-A                                 | 1      | Joke                                      |
|        | 36     | 1221-1802093                                   | 1      | Shield                                    |
|        | 37     | 1221-1802094                                   | 3      | Stud                                      |
|        | 39     | ШЧ10                                           | 6      | Washer                                    |
|        | 40     | M10                                            | 3      | Nut                                       |
|        | 41     | КГ 1/8".A12.019                                | 1      | Plug                                      |
|        | 42     | 10,0-60                                        | 1      | Ball                                      |
|        | 43     | 1221-1802016                                   | 1      | Cover                                     |

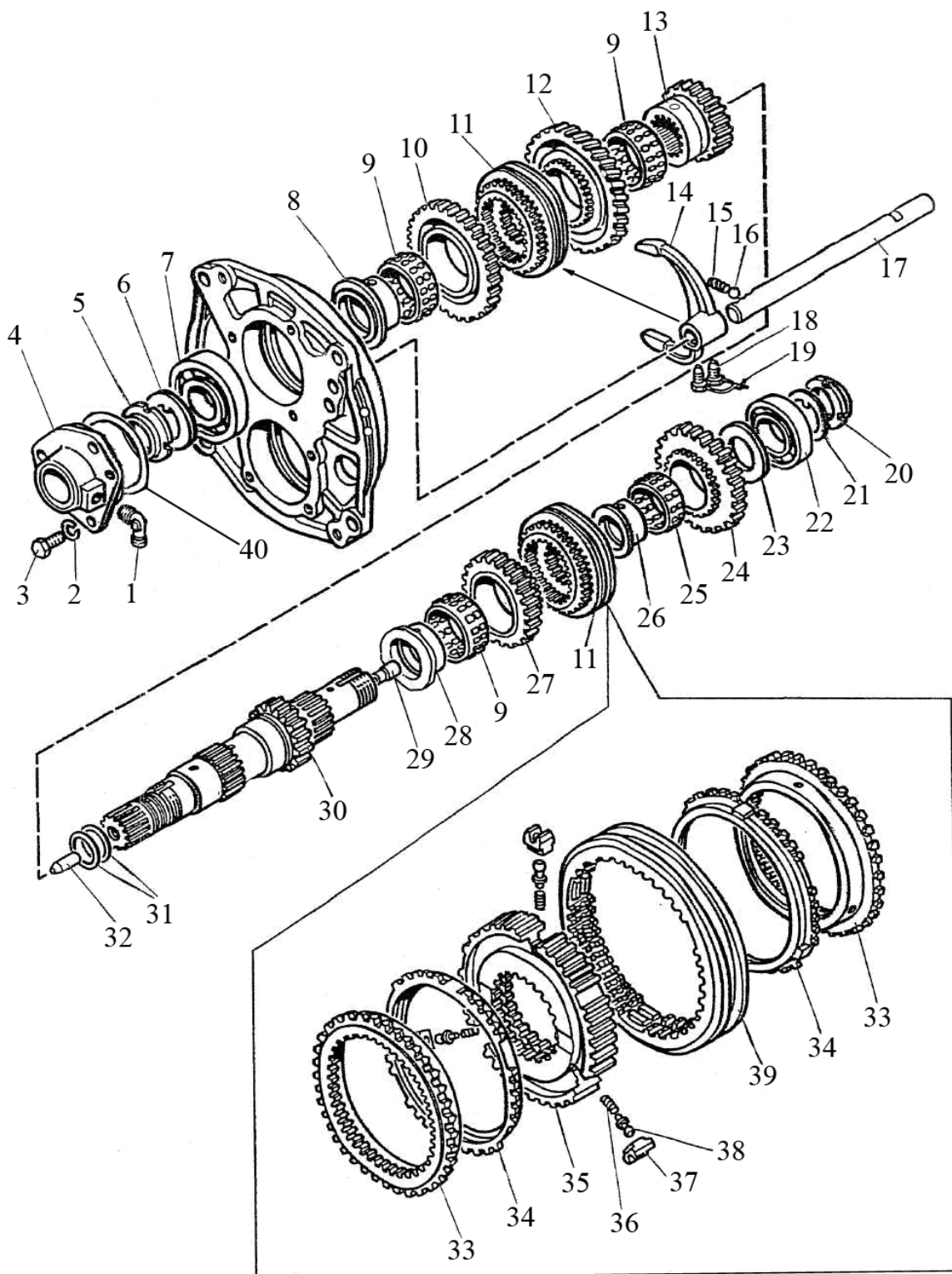


Fig. 17.8 Primary shaft



**Subgroup 1701. Gear box (GB). Primary shaft (24F+12R)**

| Fig.No | Pos.No | Assembly unit or part number            | Q-ty      | Name                         |
|--------|--------|-----------------------------------------|-----------|------------------------------|
| 17.8   | 1      | 86-1802088                              | 1         | Elbow                        |
|        | 2      | ШП12                                    | 3         | Washer                       |
|        | 3      | M12x30                                  | 3         | Bolt                         |
|        | 4      | 1222-1701030                            | 1         | Sleeve                       |
|        | 5      | 80-1701047                              | 1         | Nut                          |
|        | 6      | 80-1701186                              | 1         | Washer                       |
|        | 7      | 6-311AШ1                                | 1         | Bearing                      |
|        | 8      | 1222-1701043                            | 1         | Bushing                      |
|        | 9      | 3KK 78x89x38E                           | 3         | Bearing                      |
|        | 10     | 1222-1701052                            | 1         | Gear                         |
|        | 11     | GT-C 114; 3.28434.3<br>or 1222-1701400* | 2<br>2    | Synchro unit<br>Synchro unit |
|        | 12     | 1222K-1701054                           | 1         | Gear                         |
|        | 13     | 1222-1701044                            | 1         | Gear                         |
|        | 14     | 1222-1702088                            | 1         | Yoke                         |
|        | 15     | 50-1702148-A                            | 1         | Spring                       |
|        | 16     | 10,0-60                                 | 1         | Ball                         |
|        | 17     | 1222-1702082                            | 1         | Shifter arm                  |
|        | 18     | 220-1702061                             | 2         | Bolt                         |
|        | 19     | 1,6-O-C                                 | 200<br>mm | Wire                         |
|        | 20     | 80-1701045                              | 1         | Nut                          |
|        | 21     | 80-1701056                              | 1         | Washer                       |
|        | 22     | 309K                                    | 1         | Bearing                      |
|        | 23     | 1222-1701049                            | 1         | Washer                       |
|        | 24     | 1222-1701048                            | 1         | Gear                         |
|        | 25     | 664913E                                 | 1         | Bearing                      |
|        | 26     | 1222-1701047                            | 1         | Bushing                      |
|        | 27     | 1222-1701042                            | 1         | Gear                         |
|        | 28     | 1523-1701046                            | 1         | Bushing                      |
|        | 29     | 80-1701053                              | 1         | Throttle                     |
|        | 30     | 1523-1701032                            | 1         | Shaft-gear                   |
|        | 31     | 2522-1802083                            | 2         | O-ring                       |
|        | 32     | 50-1601352                              | 1         | Adjusting pin                |
|        | 33     | 1222-1701393*                           | 2         | Cone ring                    |
|        | 34     | 1222-1701390*                           | 2         | Lock ring                    |
|        | 35     | 1222-1701392*                           | 1         | Slide                        |
|        | 36     | 1222-1701396*                           | 3         | Spring                       |
|        | 37     | 1222-1701397*                           | 3         | Lifter                       |
|        | 38     | 1222-1701398*                           | 3         | Detent                       |
|        | 39     | 1222-1701394*                           | 1         | Clutch                       |
|        | 40     | 1222-1701033**                          | 0-3       | Washer                       |

\* For synchro unit 1222-1701400

\*\* Selection



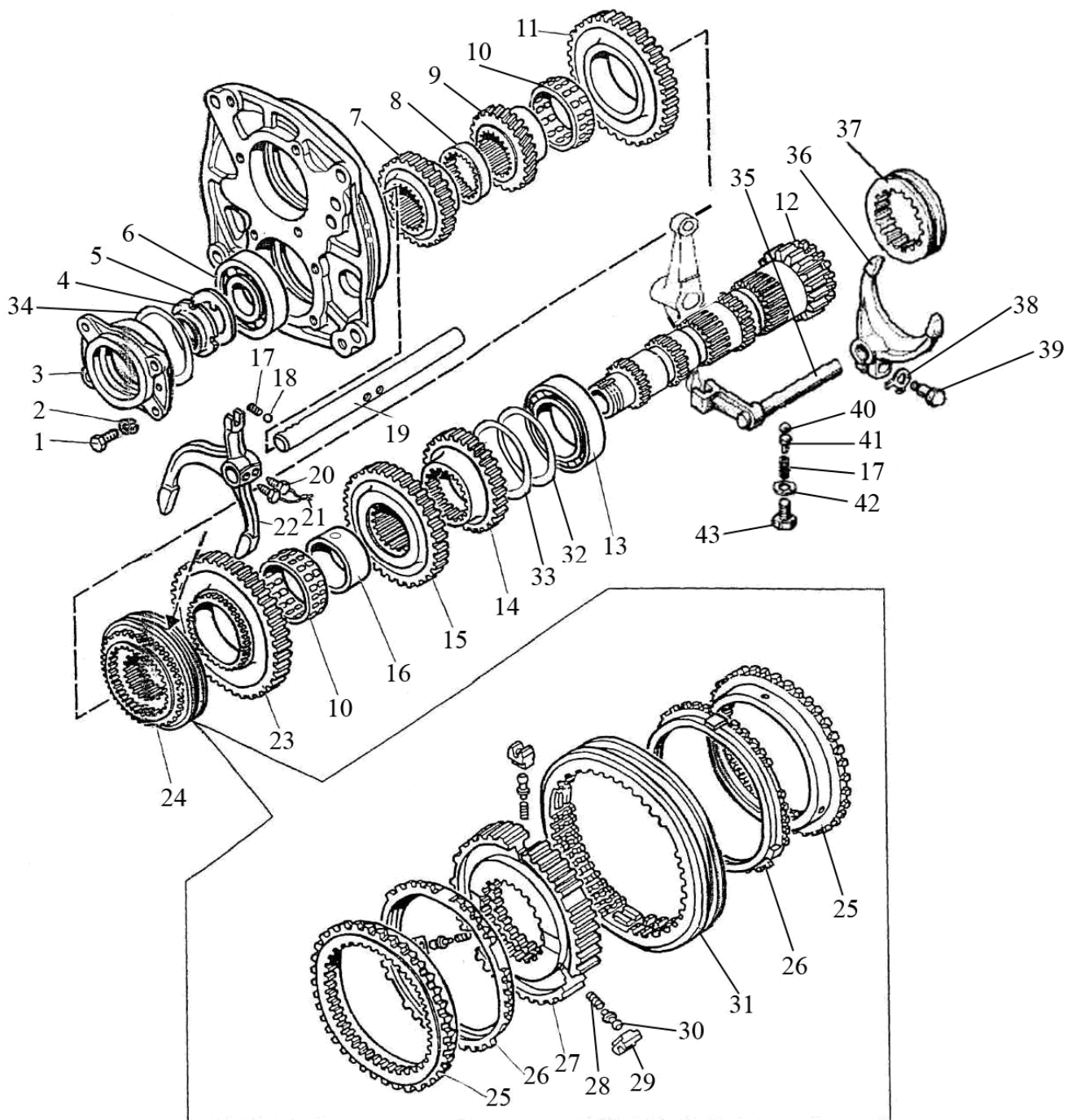


Fig. 17.9 Intermediate shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Intermediate shaft (24F+12R)**

| Fig.No      | Pos.No | Assembly unit or part number            | Q-ty      | Name                                           |
|-------------|--------|-----------------------------------------|-----------|------------------------------------------------|
| <b>17.9</b> |        | 1222-1701190                            | 1         | Intermediate shaft<br>(7-13,14-16,23,24,32,33) |
|             | 1      | M10x30                                  | 4         | Bolt                                           |
|             | 2      | ШП10                                    | 4         | Washer                                         |
|             | 3      | 80-1701151                              | 1         | Sleeve                                         |
|             | 4      | 80-1701047                              | 1         | Nut                                            |
|             | 5      | 80-1701186                              | 1         | Washer                                         |
|             | 6      | 6-311AШ1                                | 1         | Bearing                                        |
|             | 7      | 1222-1701217                            | 1         | Gear                                           |
|             | 8      | 1222-1701213                            | 1         | Bushing                                        |
|             | 9      | 1222K-1701219                           | 1         | Gear                                           |
|             | 10     | 3KK 78x89x38E                           | 2         | Bearing                                        |
|             | 11     | 1222-1701214                            | 1         | Gear                                           |
|             | 12     | 1222-1701182                            | 1         | Shaft-gear                                     |
|             | 13     | 3514H                                   | 1         | Bearing                                        |
|             | 14     | 1222-1701218                            | 1         | Gear                                           |
|             | 15     | 1222-1701216                            | 1         | Gear                                           |
|             | 16     | 1222-1701046                            | 1         | Bushing                                        |
|             | 17     | 50-1702148-A                            | 2         | Spring                                         |
|             | 18     | 10,0-60                                 | 1         | Ball                                           |
|             | 19     | 1222-1702087                            | 1         | Shifter arm                                    |
|             | 20     | 220-1702061                             | 2         | Bolt                                           |
|             | 21     | 1,6-O-C                                 | 200<br>mm | Wire                                           |
|             | 22     | 1222-1702089                            | 1         | Yoke                                           |
|             | 23     | 1523-1701212                            | 1         | Gear                                           |
|             | 24     | GT-C 114; 3.28434.3<br>or 1222-1701400* | 1<br>1    | Synchro unit<br>Synchro unit                   |
|             | 25     | 1222-1701393*                           | 2         | Cone ring                                      |
|             | 26     | 1222-1701390*                           | 2         | Lock ring                                      |
|             | 27     | 1222-1701392*                           | 1         | Slide                                          |
|             | 28     | 1222-1701396*                           | 3         | Spring                                         |
|             | 29     | 1222-1701397*                           | 3         | Lifter                                         |
|             | 30     | 1222-1701398*                           | 3         | Detent                                         |
|             | 31     | 1222-1701394*                           | 1         | Clutch                                         |
|             | 32     | 1222-1701223**                          | 0-4       | Washer                                         |
|             | 33     | 1222-1701223-01**                       | 0-3       | Washer                                         |
|             | 34     | 1222-1701033**                          | 0-3       | Washer                                         |
|             | 35     | 1520-1702038                            | 1         | Shifter arm                                    |
|             | 36     | 85-1702034                              | 1         | Yoke                                           |
|             | 37     | 1520-1701184                            | 1         | Clutch                                         |
|             | 38     | 80-1702311                              | 1         | Washer                                         |
|             | 39     | 80-1702108                              | 1         | Bolt                                           |
|             | 40     | 10,0-60                                 | 1         | Ball GOST 3722-81                              |
|             | 41     | 80-1704039                              | 1         | Guide                                          |
|             | 42     | 85-1702051                              | 1         | Washer                                         |
|             | 43     | M12-6gx55.88.35.019                     | 1         | Bolt GOST 7795-70                              |

\* For synchro unit 1222-1701400

\*\* Selection

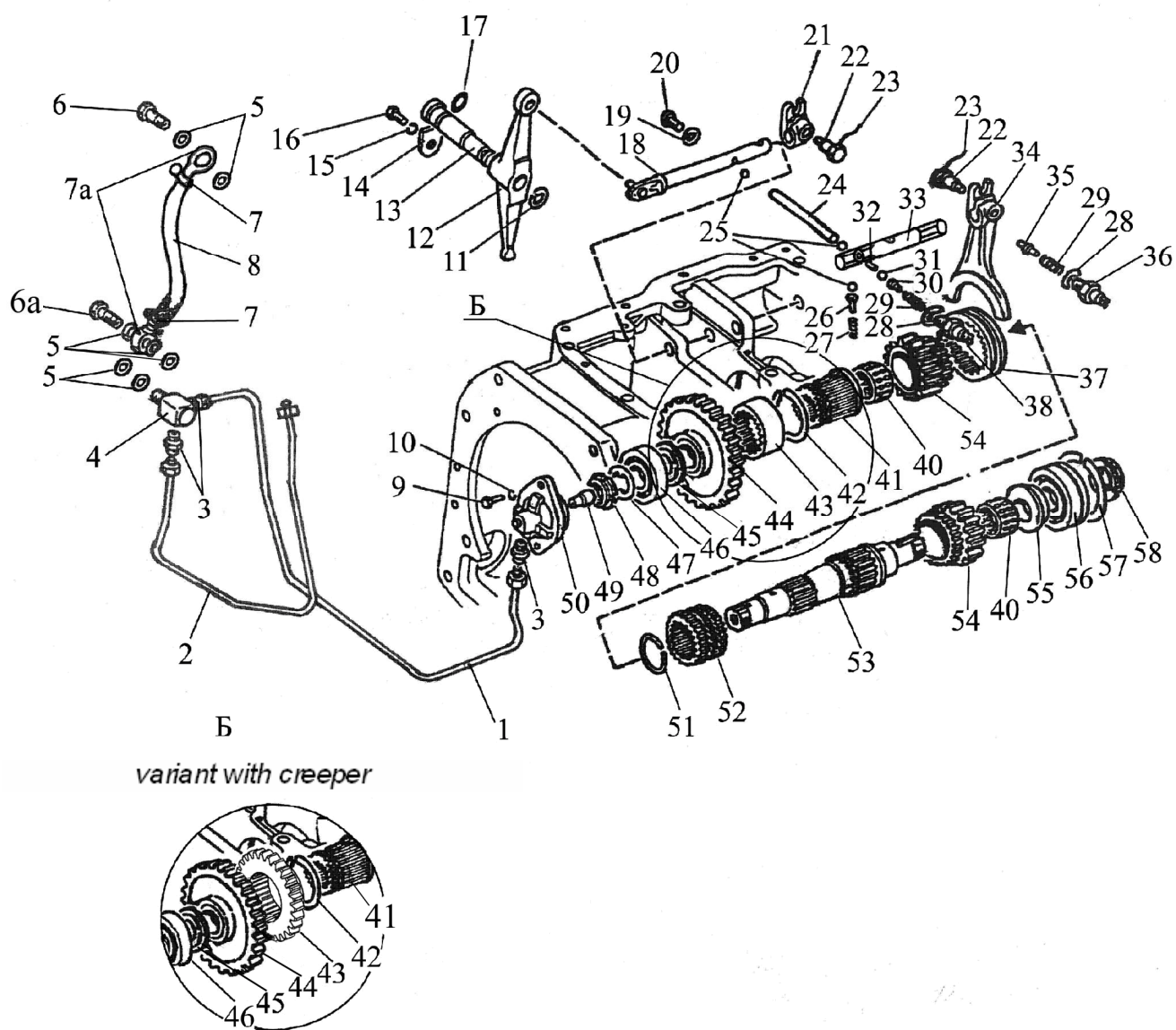
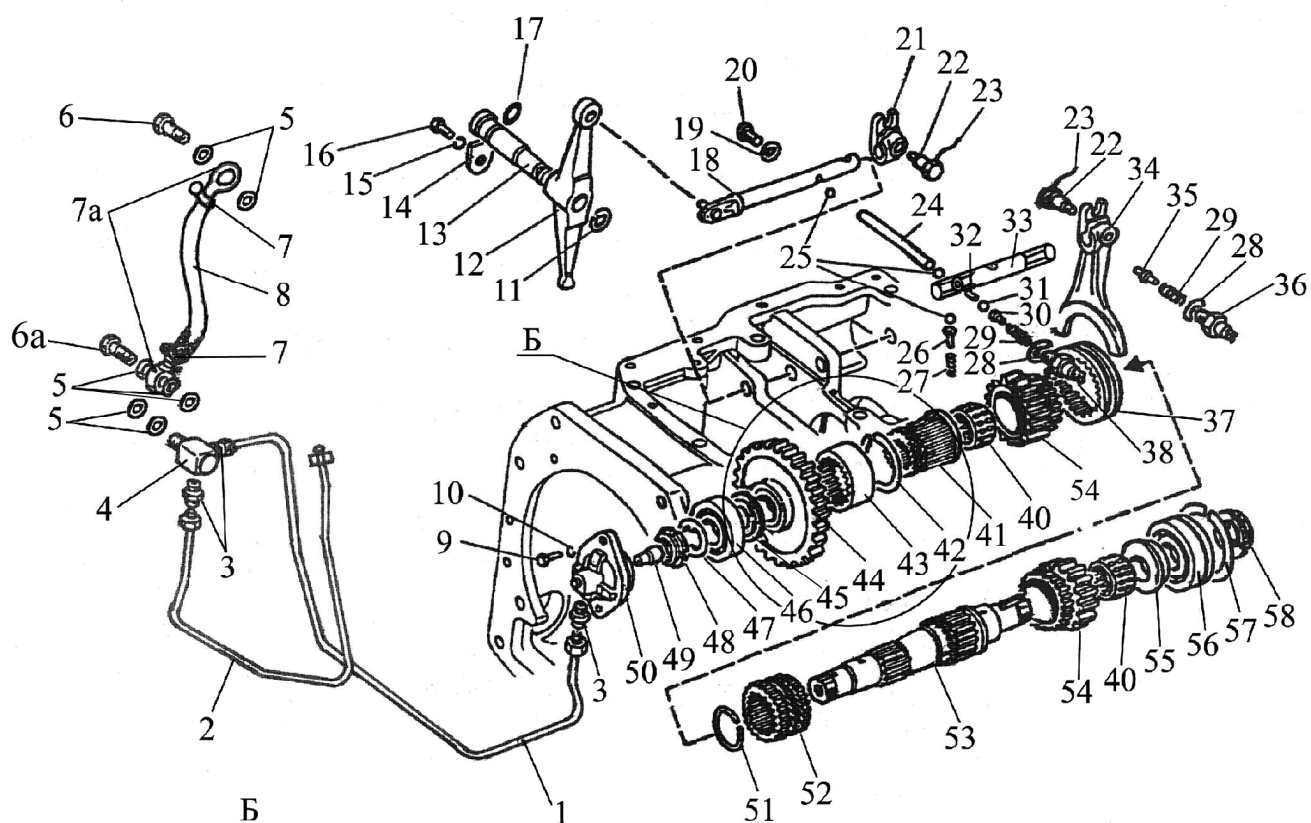


Fig. 17.10 Low gear and back draft shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Low gear and back draft shaft**  
**(24F+12R)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty     | Name                          |
|--------|--------|------------------------------|----------|-------------------------------|
| 17.10  |        | 75-1701320                   | 1        | Shaft (40-1 piece, 53, 55-58) |
|        |        | 80-1701310                   | 1        | Sleeve (3-1 piece, 49, 50)    |
|        |        | 1222-1702130-01              | 1        | Oil pipeline (7, 7a, 8)       |
|        | 1      | 80-1701420                   | 1        | Pipe                          |
|        | 2      | 80-1701430                   | 1        | Pipe                          |
|        | 3      | 80-1701549                   | 3        | Union body                    |
|        | 4      | 80-1701057                   | 1        | Union body                    |
|        | 5      | Д18-055-A                    | 7        | O-ring                        |
|        | 6      | Д18-051                      | 1        | Bolt                          |
|        | 6a     | 240-1111103                  | 1        | Turning angle joint bolt      |
|        | 7      | 12-22                        | 2        | Clamp with worm thread        |
|        | 7a     | Φ80-3407720                  | 2        | Oil pipeline                  |
|        | 8      | 1222-1702131-01              | 1        | Hose                          |
|        | 9      | M8x20                        | 2        | Bolt                          |
|        | 10     | ШП8                          | 2        | Washer                        |
|        | 11     | C25                          | 1        | Ring                          |
|        | 12     | 85-1702041                   | 1        | Rocking arm                   |
|        | 13     | 85-1702042                   | 1        | Axis                          |
|        | 14     | 85-1702043                   | 1        | Plate                         |
|        | 15     | ШП10                         | 1        | Washer                        |
|        | 16     | M10x20                       | 1        | Bolt                          |
|        | 17     | 026-030-25-2-2               | 1        | Ring                          |
|        | 18     | 85-1702050                   | 1        | Shifter arm                   |
|        | 19     | 85-1702051                   | 1        | Washer                        |
|        | 20     | M12x25                       | 1        | Bolt                          |
|        | 21     | 85-1702045                   | 1        | Shifter arm                   |
|        | 22     | 80-1702108                   | 2        | Bolt                          |
|        | 23     | 1,6-O-C                      | 2x200 mm | Wire                          |
|        | 24     | 85-1702046                   | 1        | Pin                           |
|        | 25     | 10,0-60                      | 3        | Ball                          |
|        | 26     | 80-1704039                   | 1        | Guide                         |
|        | 27     | 50-1702148-A                 | 1        | Spring                        |
|        | 28     | 50-1702048**                 | 0-5      | Shim                          |
|        | 29     | 12-23-668-A                  | 1        | Spring                        |
|        | 30     | 85-1702305                   | 1        | Pin                           |
|        | 31     | 12,7-60                      | 1        | Ball                          |
|        | 32     | 85-1702301                   | 1        | Axis                          |
|        | 33     | 85-1702035                   | 1        | Shifter arm                   |
|        | 34     | 1222-1702027                 | 1        | Yoke                          |
|        | 37     | 112-1701343                  | 1        | Clutch                        |

\*\* Selection



*variant with creeper*

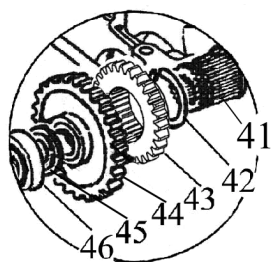


Fig. 17.10 Low gear and back draft shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Low gear and back draft shaft**  
**(24F+12R)**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name    |
|--------------|--------|------------------------------|------|---------|
| <b>17.10</b> | 38     | BK 12-41                     | 1    | Switch  |
|              | 39     | 1222-1701351                 | 1    | Gear    |
|              | 40     | 664910E                      | 2    | Bearing |
|              | 41     | 80-1701346 or                | 1    | Bushing |
|              |        | 80-1701346-01*               | 1    | Bushing |
|              | 42     | 2C70                         | 1    | Ring    |
|              | 43     | 1222-1701344 or              | 1    | Bushing |
|              |        | 1025-1701344*                | 1    | Gear    |
|              | 44     | 1520-1701340                 | 1    | Gear    |
|              | 45     | 80-1701306                   | 1    | Washer  |
|              | 46     | 12507KM                      | 1    | Bearing |

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\* Variant with creeper

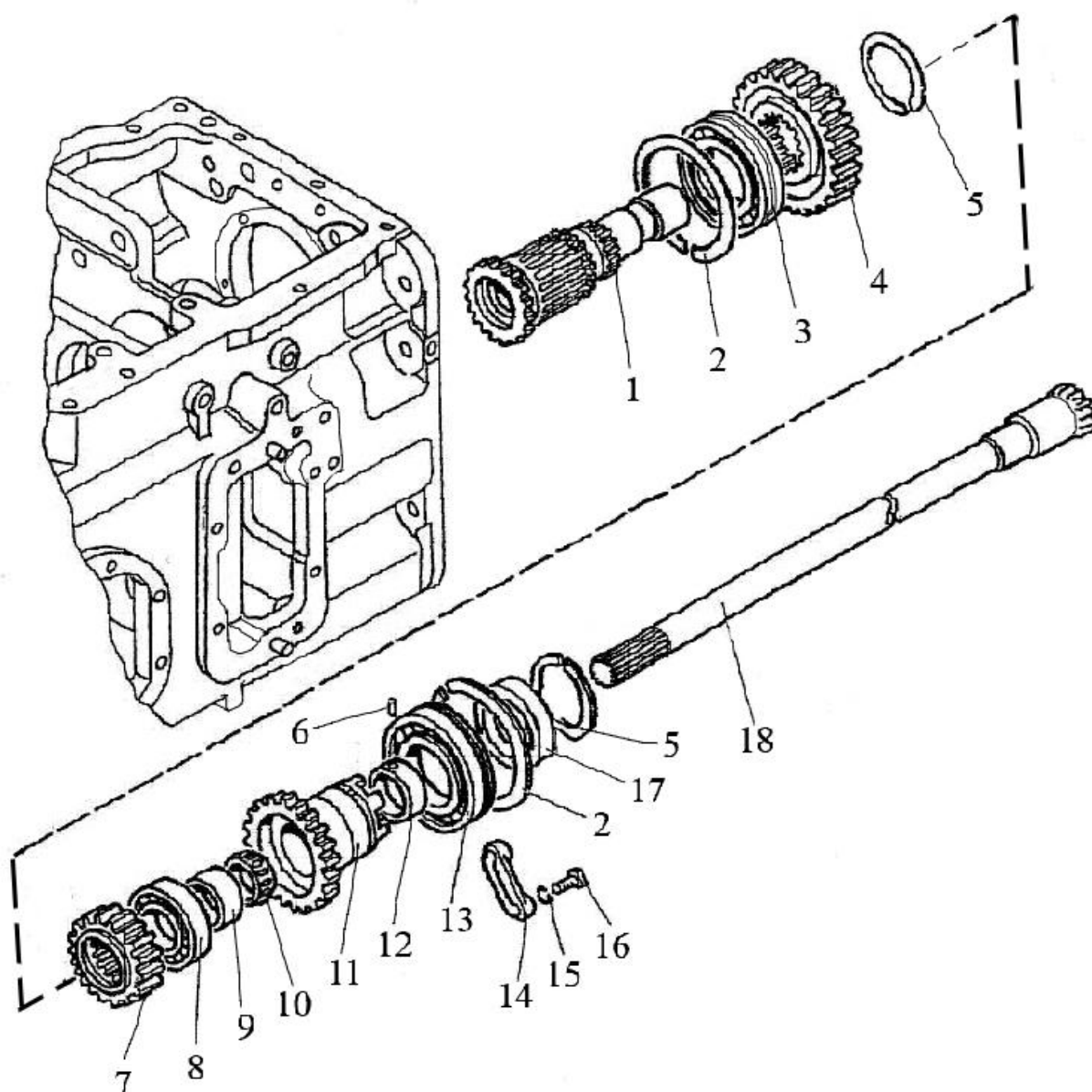


Fig. 17.11 Gear set shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Gear set shaft (24F+12R)**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|--------------|--------|------------------------------|------|--------------------------|
| <b>17.11</b> |        | 112-1701200                  | 1    | Gear(2,5,6,8,9,11-13,17) |
|              |        | 112-1701230                  | 1    | Gear(6,11,12)            |
|              | 1      | 80-1701240                   | 1    | Shaft                    |
|              | 2      | 80-1701206                   | 2    | Ring                     |
|              | 3      | 692215K1M                    | 1    | Bearing                  |
|              | 4      | 1222-1701221                 | 1    | Gear                     |
|              | 5      | 2C75                         | 2    | Ring                     |
|              | 6      | 2,4x8                        | 1    | Pin                      |
|              | 7      | 1222-1701224                 | 1    | Gear                     |
|              | 8      | 42210M                       | 1    | Bearing                  |
|              | 9      | 80-1701203                   | 1    | Bushing                  |
|              | 10     | 864710E                      | 1    | Bearing                  |
|              | 11     | 112-1701202                  | 1    | Gear                     |
|              | 12     | 80-1701201                   | 1    | Bushing                  |
|              | 13     | 50215A                       | 1    | Bearing                  |
|              | 14     | 80-1701205                   | 2    | Plate                    |
|              | 15     | ШП10                         | 4    | Washer                   |
|              | 16     | M10x30                       | 4    | Bolt                     |
|              | 17     | 80-1701207-01                | 1    | Bushing                  |
|              | 18     | 80-1701160                   | 1    | Shaft                    |



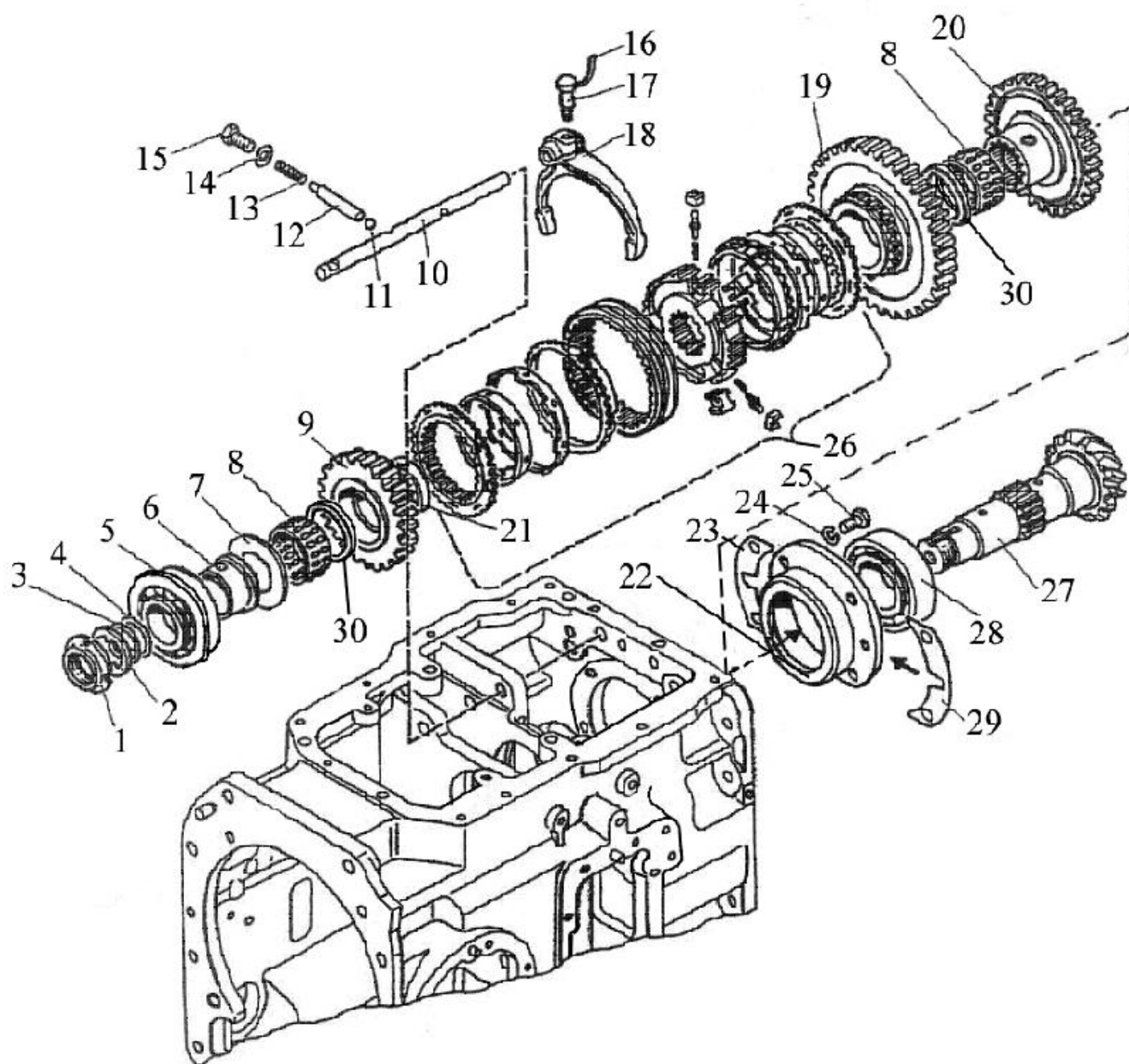


Fig. 17.12 Secondary shaft

**Group 17. Gear box (GB)**  
**Subgroup 1701. Gear box (GB). Secondary shaft (24F+12R)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty   | Name                                         |
|--------|--------|------------------------------|--------|----------------------------------------------|
| 17.12  |        | 1222-1701050                 | 1      | Shaft (27,inner race with rollers pos.No 28) |
|        |        | 80-1701140-B                 | 1      | Jack (22, bearing outer race pos.No 28)      |
|        | 1      | 80-1701045                   | 1      | Nut                                          |
|        | 2      | 1522-1701354                 | 1      | Washer                                       |
|        | 3      | 1522-1701254                 | 5      | Washer                                       |
|        | 4      | 1522-1701254-01              | 5      | Washer                                       |
|        | 5      | 6-67512AШ2                   | 1      | Bearing                                      |
|        | 6      | 1522-1701350                 | 1      | Bushing                                      |
|        | 7      | 1222-1701353                 | 1      | Washer                                       |
|        | 8      | 664514E                      | 2      | Bearing                                      |
|        | 9      | 1222-1701314-A               | 1      | Gear                                         |
|        | 10     | 1222-1702037                 | 1      | Shifter arm                                  |
|        | 11     | 10,0-60                      | 1      | Ball                                         |
|        | 12     | 85-1702048                   | 1      | Pin                                          |
|        | 13     | 50-1702148-A                 | 1      | Spring                                       |
|        | 14     | 85-1702051                   | 1      | Washer                                       |
|        | 15     | M12x25                       | 1      | Bolt                                         |
|        | 16     | 1,6-O-C                      | 200 mm | Wire                                         |
|        | 17     | 80-1702108                   | 1      | Bolt                                         |
|        | 18     | 1222-1702029                 | 1      | Yoke                                         |
|        | 19     | 1222-1701312-A               | 1      | Gear                                         |
|        | 20     | 1222-1701313                 | 1      | Gear                                         |
|        | 21     | 1222-1701349                 | 1      | Bushing                                      |
|        | 22     | 80-1701141-B                 | 1      | Sleeve                                       |
|        | 23     | 50-1701258                   | 6      | Gasket                                       |
|        | 24     | ШП10                         | 4      | Washer                                       |
|        | 25     | M10x30                       | 4      | Bolt                                         |
|        | 26     | GT-D 109/116; 3.26299.3      | 1      | Synchro unit                                 |
|        | 27     | 1222-1701252                 | 1      | Shaft-gear                                   |
|        | 28     | 7712A                        | 1      | Bearing                                      |
|        | 29     | 50-1701259                   | 4      | Gasket                                       |
|        | 30     | 2025-1701033                 | 2      | Bushing                                      |

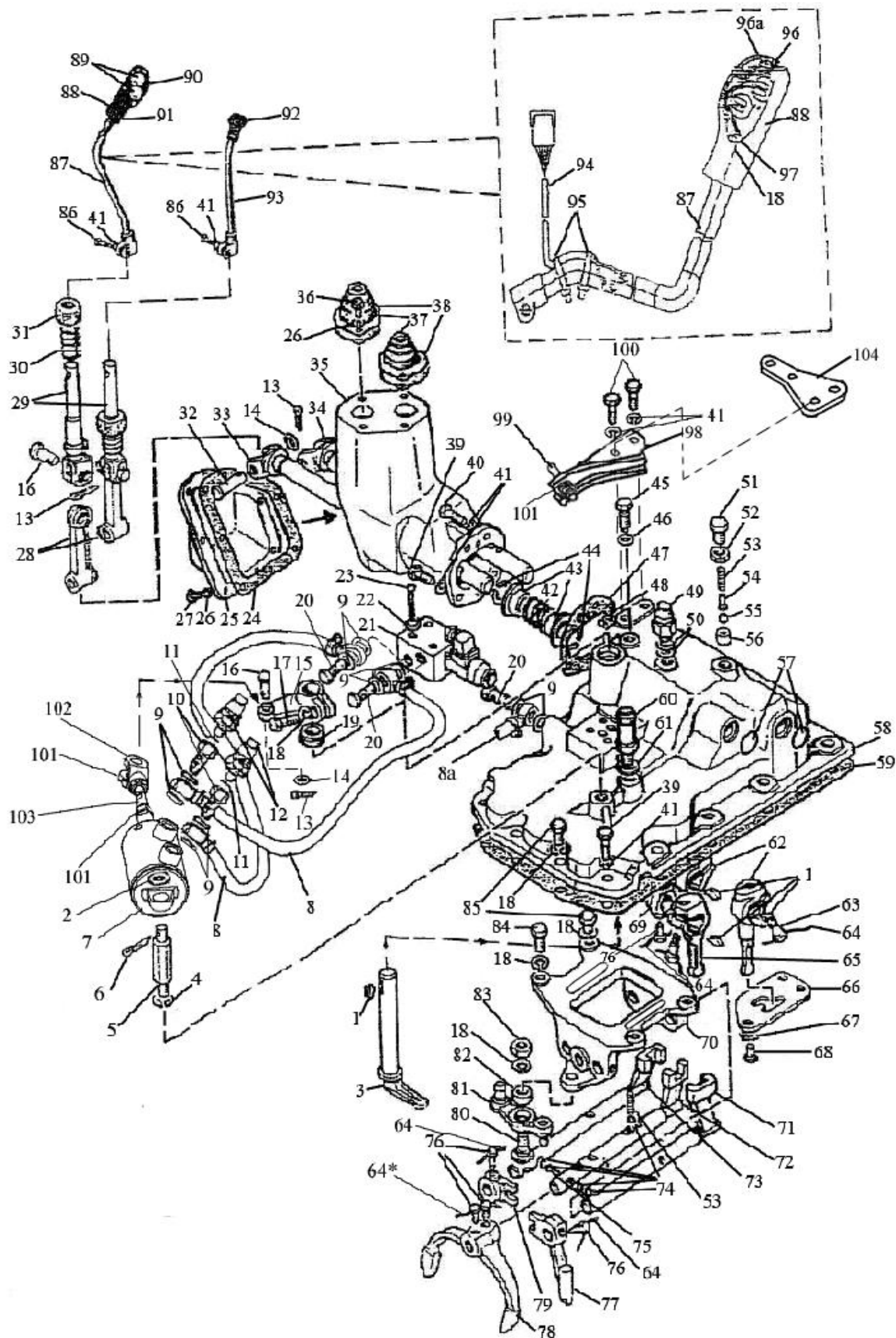


Fig. 17.13 GB control mechanism

**Group 17. Gear box (GB)**
**Subgroup 1702. GB control mechanism (24F+12R)**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                                                                 |
|--------------|--------|------------------------------|------|----------------------------------------------------------------------|
| <b>17.13</b> |        | 1222-1702010                 | 1    | Control mechanism                                                    |
|              |        | 1222-1702080                 | 1    | Yoke housing (18-1 piece, 53-1 piece, 64 (2x200+200*=600 mm), 70-83) |
|              | 1      | 6x10                         | 4    | Key                                                                  |
|              | 2      | ШЧ16                         | 1    | Washer                                                               |
|              | 3      | 1222-1702093                 | 1    | Lever                                                                |
|              | 4      | ШП16                         | 1    | Washer                                                               |
|              | 5      | 1222-1702096                 | 1    | Axis                                                                 |
|              | 6      | 3,2x25                       | 1    | Forelock                                                             |
|              | 7      | 2102-4216110-Б               | 1    | Cylinder                                                             |
|              | 8      | 1222-1702130                 | 2    | Oil pipeline                                                         |
|              | 8a     | 1222-1702130-01              | 1    | Oil pipeline                                                         |
|              | 9      | Д18-055-А                    | 10   | O-ring                                                               |
|              | 10     | 1222-1702114                 | 2    | Union body                                                           |
|              | 11     | 009-012-19-1-4               | 2    | Ring                                                                 |
|              | 12     | ДСДМ-М                       | 2    | Air pressure emergency sensor                                        |
|              | 13     | 3,2x18                       | 5    | Forelock                                                             |
|              | 14     | 85-4619014                   | 3    | Washer                                                               |
|              | 15     | 1222-1702092                 | 1    | Lever                                                                |
|              | 16     | 12x32                        | 3    | Pin                                                                  |
|              | 17     | M12x35                       | 1    | Bolt                                                                 |
|              | 18     | ШП12                         | 8    | Washer                                                               |
|              | 19     | 2.2-25x42-1                  | 1    | Collar                                                               |
|              | 20     | Д18-051                      | 3    | Bolt                                                                 |
|              | 21     | RH 06101-012/00GA-AMP        | 1    | Hydraulic distributor valve                                          |
|              | 22     | ШП5                          | 4    | Washer                                                               |
|              | 23     | B.M5x50                      | 4    | Screw                                                                |
|              | 24     | 80-1702068                   | 1    | Gasket                                                               |
|              | 25     | 80-1702067                   | 1    | Cover                                                                |
|              | 26     | ШП6                          | 11   | Washer                                                               |
|              | 27     | M6x16                        | 7    | Bolt                                                                 |
|              | 28     | 80C-1702073                  | 2    | Lever                                                                |
|              | 29     | 80C-1702074                  | 2    | Yoke                                                                 |
|              | 30     | 77.37.117                    | 2    | Spring                                                               |
|              | 31     | 142-1702032                  | 2    | Ball                                                                 |
|              | 32     | 12x55                        | 2    | Pin                                                                  |
|              | 33     | 1222-1702070                 | 1    | Shaft                                                                |
|              | 34     | 80C-1702060                  | 1    | Shaft                                                                |
|              | 35     | 80-1702078-A                 | 1    | Housing                                                              |
|              | 36     | M6x20                        | 4    | Bolt                                                                 |
|              | 37     | 55-47-569-A                  | 2    | Case                                                                 |
|              | 38     | 80C-1702075                  | 2    | Washer                                                               |
|              | 39     | M10x35                       | 14   | Bolt                                                                 |
|              | 40     | M10x40                       | 2    | Bolt                                                                 |
|              | 41     | ШП10                         | 20   | Washer                                                               |
|              | 42     | 80-4608057                   | 1    | Spring                                                               |
|              | 43     | 1222-1702064                 | 2    | Bushing                                                              |
|              | 44     | C25                          | 2    | Ring                                                                 |
|              | 45     | 1222-1702048                 | 1    | Screw                                                                |
|              | 46     | 85-1702051                   | 1    | Washer                                                               |
|              | 47     | 80C-1702066                  | 1    | Gasket                                                               |
|              | 48     | 8x16                         | 2    | Pin                                                                  |
|              | 49     | BK 12-41                     | 1    | Switch                                                               |
|              | 50     | 50-1702048                   | 10   | Shim                                                                 |

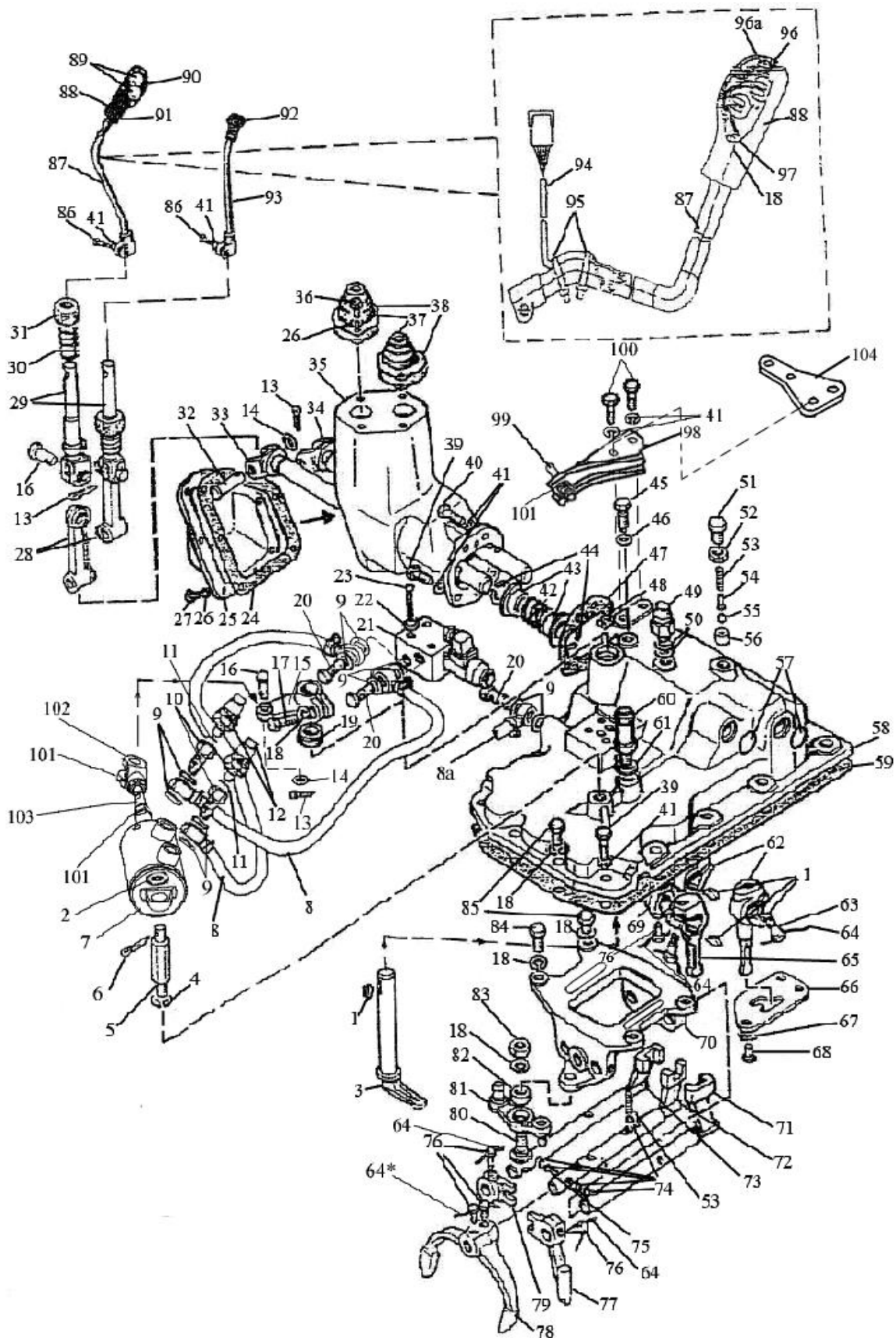


Fig. 17.13 GB control mechanism

**Group 17. Gear box (GB)**  
**Subgroup 1702. GB control mechanism (24F+12R)**

| Fig.No       | Pos.No | Assembly unit or part number    | Q-ty         | Name                 |
|--------------|--------|---------------------------------|--------------|----------------------|
| <b>17.13</b> | 51     | 70-1703204                      | 1            | Bolt                 |
|              | 52     | M16                             | 1            | Nut                  |
|              | 53     | 50-1702148-A                    | 2            | Spring               |
|              | 54     | 80-1704039                      | 1            | Guide                |
|              | 55     | 10,0-60                         | 1            | Ball                 |
|              | 56     | 70-1703013                      | 1            | Bushing              |
|              | 57     | 28-10                           | 2            | Blind plug           |
|              | 58     | 1222-1702030                    | 1            | Cover                |
|              | 59     | 85-1702026                      | 1            | Gasket               |
|              | 60     | 85-1702270                      | 1            | Breather             |
|              | 61     | B50-3522023                     | 1            | Gasket               |
|              | 62     | 85-1702055                      | 2            | Lever                |
|              | 63     | 80-1702108                      | 3            | Bolt                 |
|              | 64     | 1,6-O-C                         | (6x200+200*) | Wire                 |
|              | 65     | 1222-1702055                    | 1            | Lever                |
|              | 66     | 1222-1702052                    | 1            | Sector               |
|              | 67     | 80-3401013                      | 3            | Washer               |
|              | 68     | M10x20                          | 3            | Bolt                 |
|              | 69     | 1222-1702074                    | 1            | Bushing              |
|              | 70     | 1222-1702081                    | 1            | Housing              |
|              | 71     | 1222-1702084                    | 1            | Shifter arm          |
|              | 72     | 1222-1702086                    | 1            | Shifter arm          |
|              | 73     | 1222-1702083                    | 1            | Shifter arm          |
|              | 74     | 9,922-100                       | 5            | Ball                 |
|              | 75     | 85-1702301                      | 1            | Axis                 |
|              | 76     | 220-1702061                     | 5            | Bolt                 |
|              | 77     | 1222-1702109                    | 1            | Shifter arm          |
|              | 78     | 1222-1702091                    | 1            | Yoke                 |
|              | 79     | 1222-1702107                    | 1            | Retainer             |
|              | 80     | 1222-1702112                    | 1            | Axis                 |
|              | 81     | 1222-1702105                    | 1            | Rocking arm          |
|              | 82     | 941/20                          | 1            | Bearing              |
|              | 83     | M12                             | 1            | Nut                  |
|              | 84     | M12x30                          | 2            | Bolt                 |
|              | 85     | 50-1702092                      | 4            | Bolt                 |
|              | 86     | M10x30                          | 2            | Bolt                 |
|              | 87     | 1222-1702610-A1                 | 1            | Lever                |
|              | 88     | 75-1702505                      | 1            | Handle               |
|              | 89     | BK 12-1                         | 2            | Switch               |
|              | 90     | 4x30                            | 4            | Screw GOST 10621-80  |
|              | 91     | 75-1702502                      | 1            | Cover                |
|              | 92     | A15.05.020                      | 1            | Handle               |
|              | 93     | 2022-1702500-A                  | 1            | Lever                |
|              | 94     | 1221-3724925-A                  | 1            | Harness              |
|              | 95     | 80-3723045                      | 2            | Collar               |
|              | 96     | АП 307 KM A0.336.076 TU (red)   | 1            | Light-emitting diode |
|              | 96a    | АП 307ЧМ A0.336.076 TU (yellow) | 1            | Light-emitting diode |
|              | 97     | M12x1,25-6H.6.019 GOST 5915-70  | 1            | Nut                  |
|              | 98     | 2022-1702090                    | 1            | Bracket              |

\* For lockwiring of two bolts (pos. 76) of the yoke bracing (pos. 78) when assembling gear box

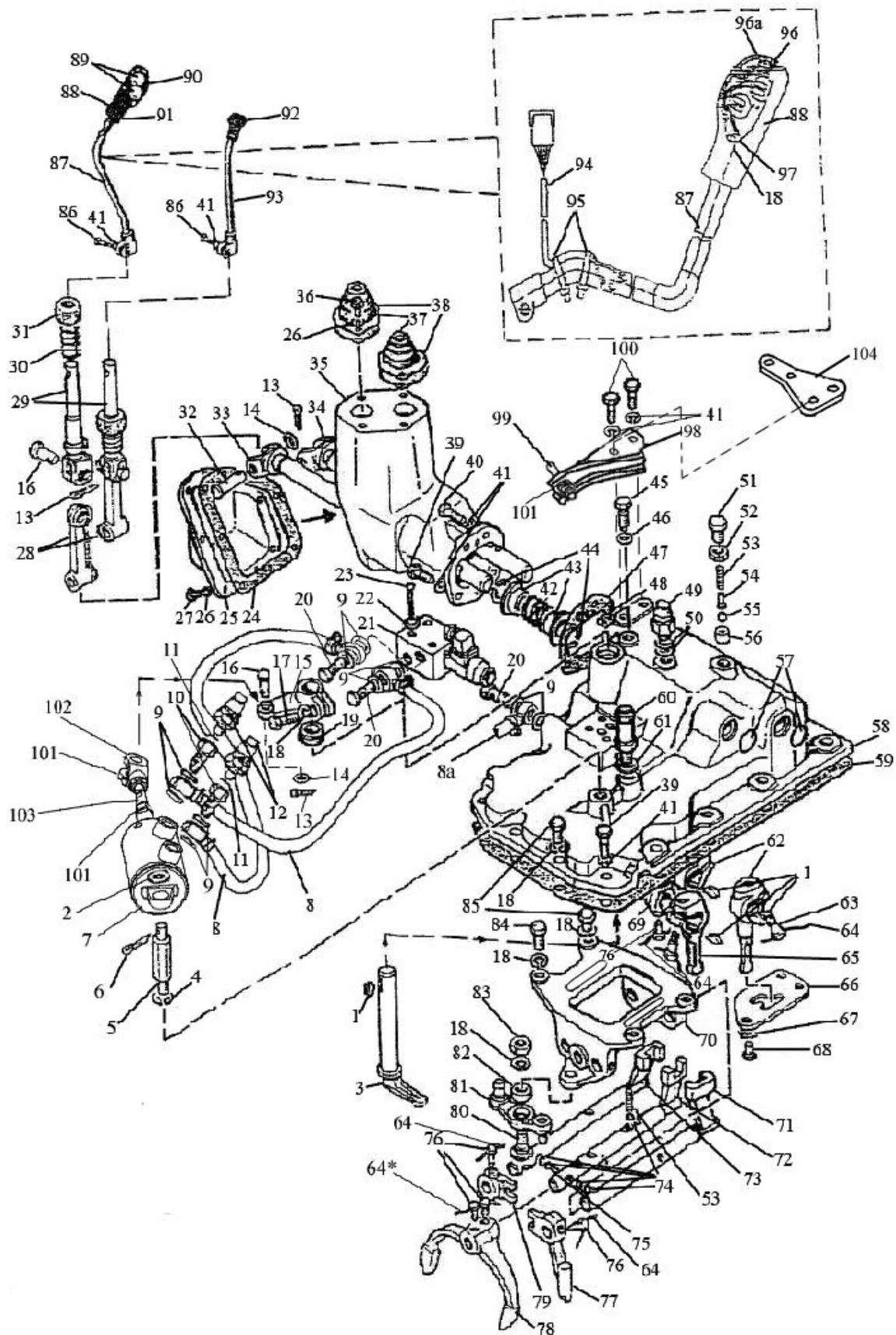


Fig. 17.13 GB control mechanism

**Group 17. Gear box (GB)**  
**Subgroup 1702. GB control mechanism (24F+12R)**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name    |
|--------------|--------|------------------------------|------|---------|
| <b>17.13</b> | 99     | 2022-1702093                 | 1    | Bolt    |
|              | 100    | M10x30                       | 2    | Bolt    |
|              | 101    | M10                          | 3    | Nut     |
|              | 102    | 822-3502203                  | 1    | Yoke    |
|              | 103    | 2022-1702094                 | 1    | Stud    |
|              | 104    | 85-3503046                   | 1    | Bracket |



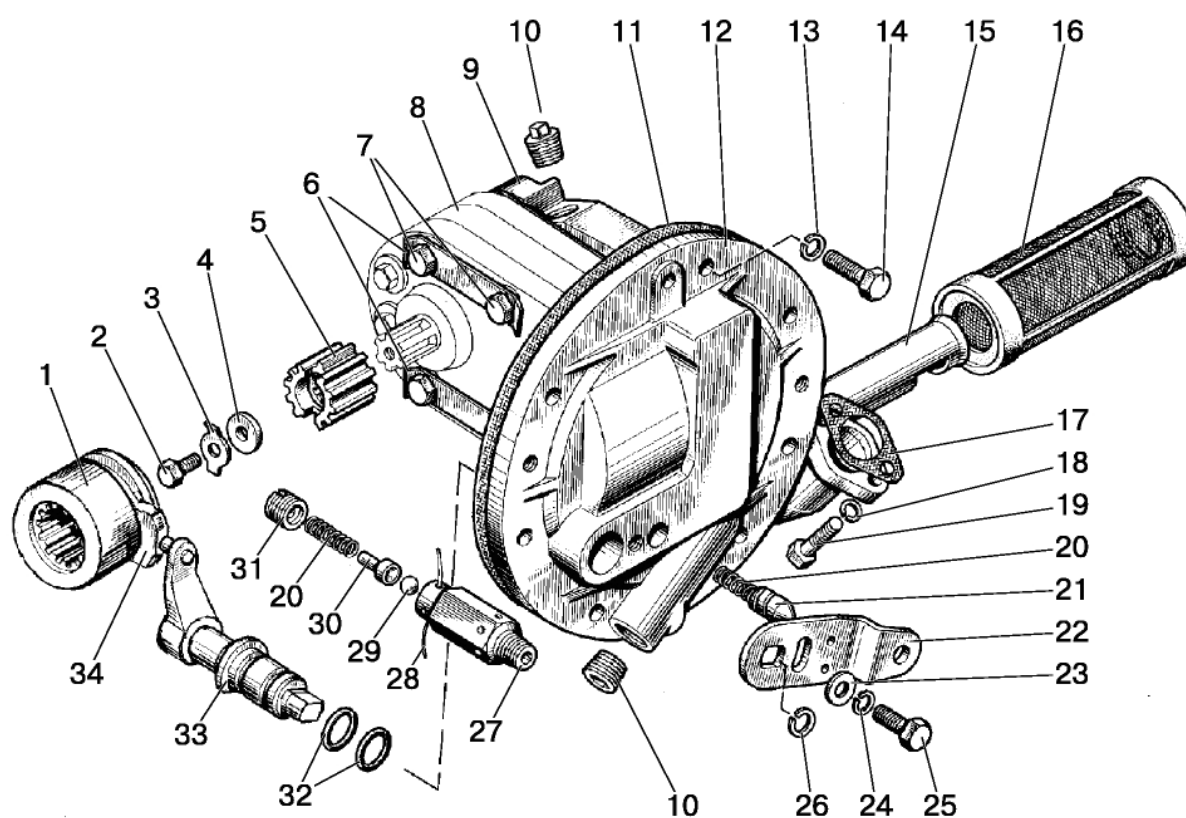


Fig. 17.14. Pump drive

**Group 17. Gear box (GB)**  
**Subgroup 1704. Pump drive**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                         |
|--------------|--------|------------------------------|------|------------------------------|
| <b>17.14</b> |        | 80-1704010-A                 | 1    | Pump drive (1-10, 12, 15-34) |
|              |        | 80-1704040                   | 1    | Valve (20, 27-31)            |
|              | 1      | 80C-1704096-B                | 1    | Clutch                       |
|              | 2      | M8x10                        | 1    | Bolt                         |
|              | 3      | 80-1704034                   | 1    | Washer                       |
|              | 4      | 85-1601108                   | 1    | Washer                       |
|              | 5      | 80-1704014-B                 | 1    | Bushing                      |
|              | 6      | 80-1704092                   | 2    | Plate                        |
|              | 7      | M12x75                       | 4    | Bolt                         |
|              | 8      | HMШ 25-00-00-02              | 1    | Gear-type oil pump           |
|              | 9      | 80-1704093                   | 1    | Gasket                       |
|              | 10     | КГ $\frac{3}{8}$ "           | 2    | Plug                         |
|              | 11     | 80-1704016                   | 1    | Gasket                       |
|              | 12     | 80-1704015-A                 | 1    | Housing                      |
|              | 13     | ШП 10                        | 7    | Washer                       |
|              | 14     | M10x30                       | 7    | Bolt                         |
|              | 15     | 80-1704030                   | 1    | Oil pipeline                 |
|              | 16     | 80-1704050-A                 | 1    | Filter                       |
|              | 17     | 80-1704033                   | 1    | Gasket                       |
|              | 18     | ШП 8                         | 2    | Washer                       |
|              | 19     | M8x30                        | 2    | Bolt                         |
|              | 20     | 50-1702148-A                 | 2    | Spring                       |
|              | 21     | 80-1704037                   | 1    | Detent                       |
|              | 22     | 80-1704018                   | 1    | Plate                        |
|              | 23     | ШЧ 10                        | 1    | Washer                       |
|              | 24     | ШП 10                        | 1    | Washer                       |
|              | 25     | M10x25                       | 1    | Bolt                         |
|              | 26     | 2B18                         | 1    | Ring                         |
|              | 27     | 80-1704041                   | 1    | Housing                      |
|              | 28     | 1x100                        | 1    | Wire                         |
|              | 29     | 10,0-60                      | 1    | Ball                         |
|              | 30     | 80-1704039                   | 1    | Guide                        |
|              | 31     | 80-1704038                   | 1    | Plug                         |
|              | 32     | 030-025-30-1-4               | 2    | Ring                         |
|              | 33     | 80-1704020-B                 | 1    | Shaft                        |
|              | 34     | 80-1704021                   | 1    | Cotter                       |

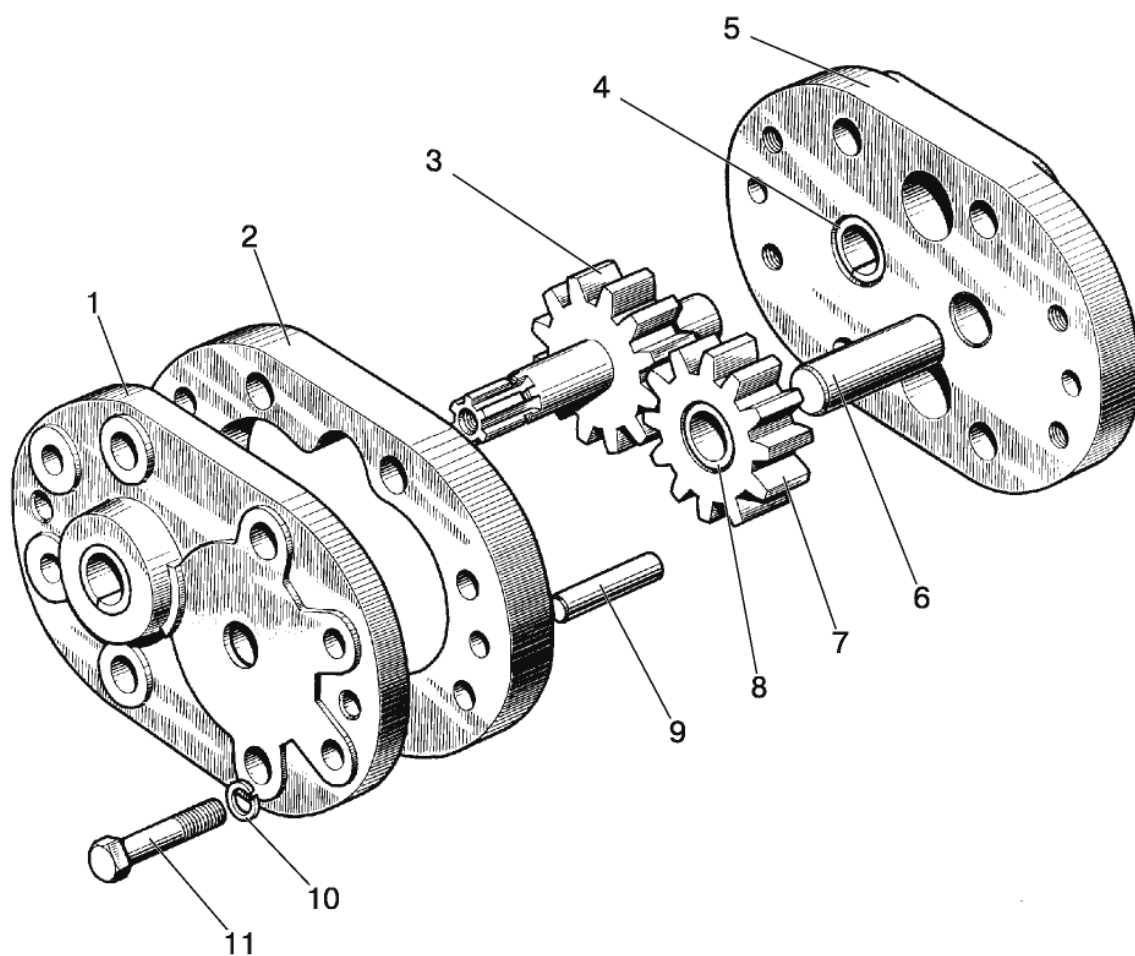


Fig. 17.15. Gear-type oil pump

**Group 17. Gear box (GB)**  
**Subgroup HMШ-25. Gear-type oil pump**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                      |
|--------------|--------|------------------------------|------|---------------------------|
| <b>17.15</b> |        | HMШ 25-00-00-02              | 1    | Gear-type oil pump (1-11) |
|              |        | HMШ 25-01-00                 | 1    | Bottom cover (4,5)        |
|              |        | HMШ 25-02-00                 | 1    | Top cover (1, 4)          |
|              |        | HMШ 50-03-00                 | 1    | Driven gear (7, 8)        |
|              | 1      | HMШ 25-02-01                 | 1    | Top cover                 |
|              | 2      | HMШ25-00-01                  | 1    | Housing                   |
|              | 3      | HMШ 25-00-02                 | 1    | Drive gear                |
|              | 4      | HMШ 25-01-02                 | 2    | Split bushing             |
|              | 5      | HMШ 25-01-01                 | 1    | Bottom cover              |
|              | 6      | HMШ 25-04-01                 | 1    | Axis                      |
|              | 7      | HMШ 50-03-01                 | 1    | Driven gear               |
|              | 8      | HMШ 50-03-02                 | 1    | Bushing                   |
|              | 9      | HMШ 10x45                    | 2    | Pin                       |
|              | 10     | ШП 10                        | 4    | Washer                    |
|              | 11     | M10x45                       | 4    | Bolt                      |

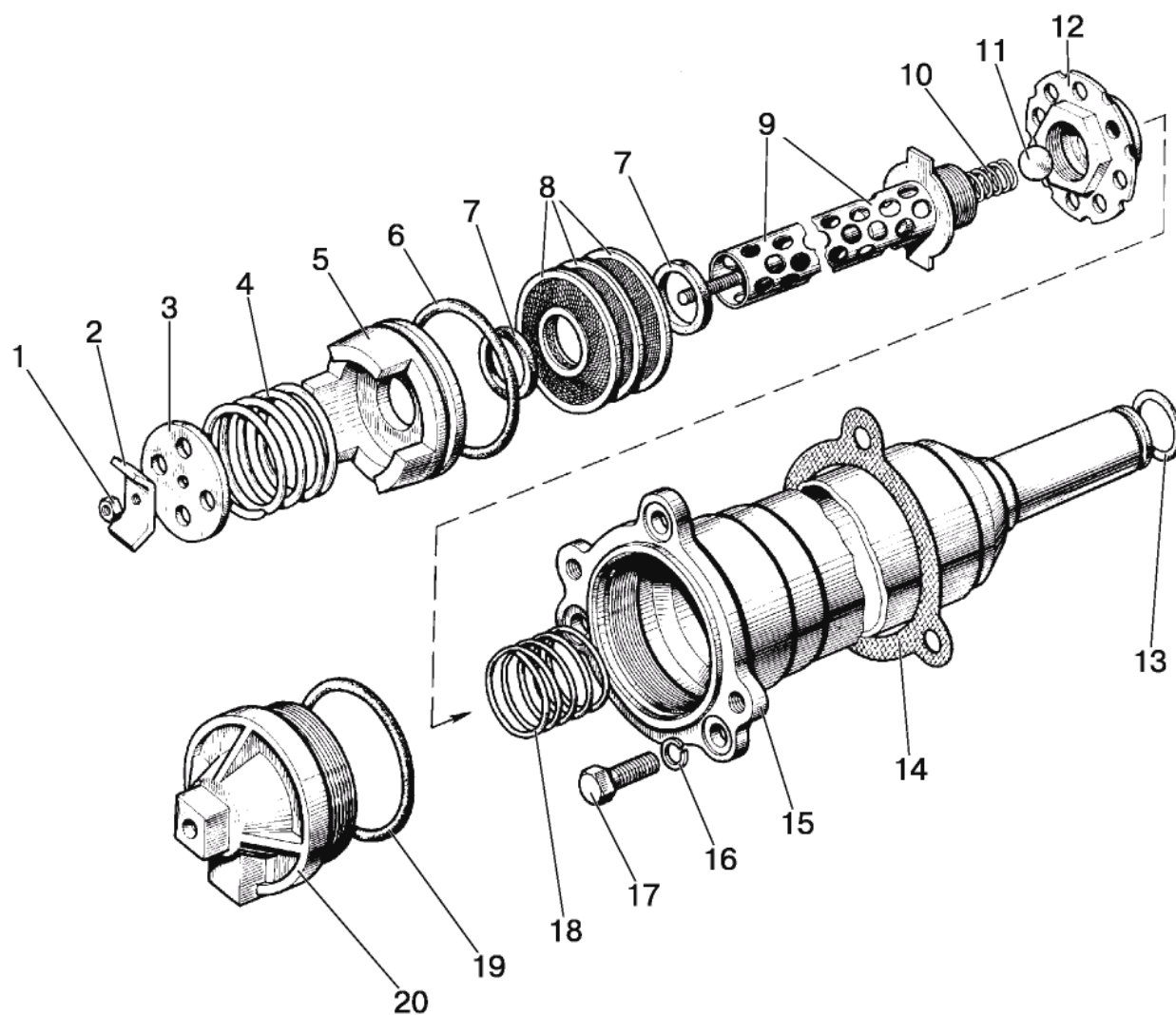


Fig. 17.16. Filter

**Group 17. Gear box (GB)  
Subgroup 1716. Filter**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|--------------|--------|------------------------------|------|--------------------------|
| <b>17.16</b> |        | 80-1716010                   | 1    | Filter (1-13, 15, 18-20) |
|              |        | 80-1716040                   | 1    | Filter pipe (9-12)       |
|              |        | 80-1716030                   | 1    | Filter (1-5, 8-12)       |
|              | 1      | M5                           | 1    | Nut                      |
|              | 2      | 80-1716033                   | 1    | Joke                     |
|              | 3      | 80-1716032                   | 1    | Washer                   |
|              | 4      | 80-1716034                   | 1    | Spring                   |
|              | 5      | 80-1716031                   | 1    | Piston                   |
|              | 6      | 059-065-36-2-4               | 1    | Ring                     |
|              | 7      | 80-1716024                   | 2    | Ring                     |
|              | 8      | 80-1716080                   | 45   | Filter element           |
|              | 9      | 80-1716050                   | 1    | Pipe                     |
|              | 10     | 80-1716041                   | 1    | Spring                   |
|              | 11     | 15.081-100                   | 1    | Ball                     |
|              | 12     | 80-1716060                   | 1    | Housing                  |
|              | 13     | 022-025-19-1-4               | 1    | Ring                     |
|              | 14     | 80-1716016                   | 1    | Gasket                   |
|              | 15     | 80-1716020                   | 1    | Housing                  |
|              | 16     | ШП 10                        | 3    | Washer                   |
|              | 17     | M10x30                       | 3    | Bolt                     |
|              | 18     | 80-1716018                   | 1    | Spring                   |
|              | 19     | 066-071-30-1-4               | 1    | Ring                     |
|              | 20     | 80-1716015                   | 1    | Cover                    |

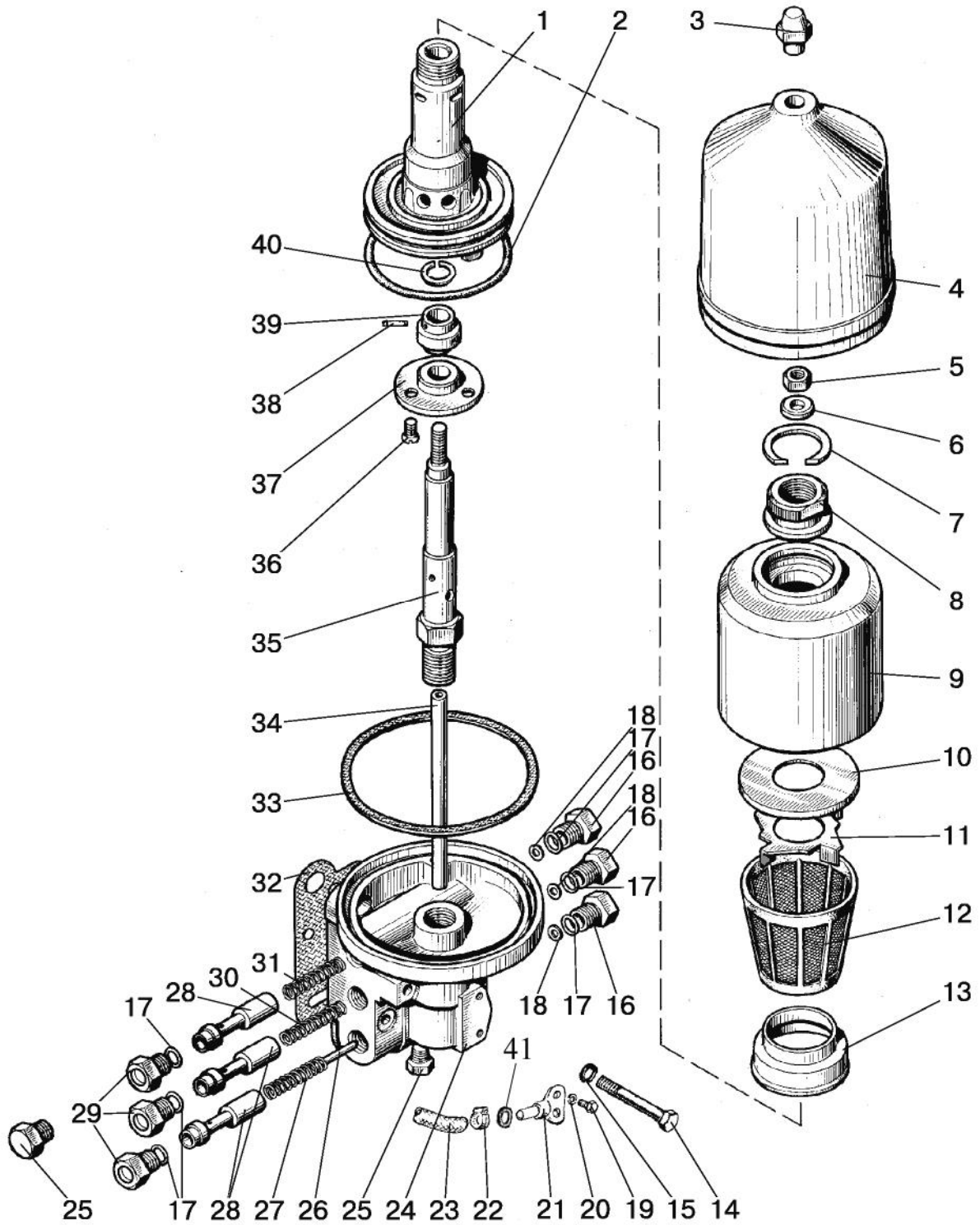


Fig. 17.17. Distribution filter

**Group 17. Gear box (GB)**  
**Subgroup 1737. Distribution filter**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                                            |
|--------|--------|------------------------------|------|-------------------------------------------------|
| 17.17  |        | 80-1737110                   | 1    | Distribution filter (1-13, 16-18, 24-31, 33-40) |
|        |        | 80-1028020                   | 1    | Rotor with axis (1, 2, 5-13, 34-40)             |
|        |        | 240-1 404030-A               | 1    | Rotor sleeve (7-9)                              |
|        |        | 80-1028080                   | 1    | Rotor axis (34, 35, 37-40)                      |
|        |        | 240-1404140                  | 1    | Filter net (10, 12)                             |
|        | 1      | 240-1404017-Б                | 1    | Rotor housing                                   |
|        | 2      | 115-120-30-2-1               | 1    | Ring                                            |
|        | 3      | 240-1404088                  | 1    | Cap nut                                         |
|        | 4      | 240-1404027                  | 1    | Filter cap                                      |
|        | 5      | M12x1,25                     | 1    | Nut                                             |
|        | 6      | Д37А-1407607-В               | 1    | Thrust washer                                   |
|        | 7      | 240-1404033                  | 1    | Thrust ring                                     |
|        | 8      | 240-1 404035-A               | 1    | Special nut                                     |
|        | 9      | 240-1404023                  | 1    | Rotor sleeve                                    |
|        | 10     | 240-1404113                  | 1    | Cover                                           |
|        | 11     | 240-1404024                  | 1    | Rotor impeller                                  |
|        | 12     | 240-1404110                  | 1    | Filter net                                      |
|        | 13     | 240-1404049                  | 1    | Inner sleeve                                    |
|        | 14     | M10x70                       | 4    | Bolt                                            |
|        | 15     | ШП 10                        | 4    | Washer                                          |
|        | 16     | 50-1404075                   | 3    | Valve plug                                      |
|        | 17     | 1221-1737126                 | 6    | Washer                                          |
|        | 18     | ШЧ 5                         | *    | Washer                                          |
|        | 19     | M8x30                        | 2    | Bolt                                            |
|        | 20     | ШП 8                         | 2    | Washer                                          |
|        | 21     | 1221-2401005                 | 1    | Tube                                            |
|        | 22     | 16-25                        | 2    | Clamp                                           |
|        | 23     | 14x23-16                     | 1    | Hose L=750 (with hydraulic hoist)               |
|        |        | 14x23-16                     | 1    | Hose L=960 (with draft control unit)            |
|        | 24     | 80-1737111                   | 1    | Housing                                         |
|        | 25     | КГ $\frac{1}{8}$ "           | 4    | Plug                                            |
|        | 26     | 6h11x45                      | 1    | Pin                                             |
|        | 27     | 70-4801045                   | 1    | Spring                                          |
|        | 28     | 80-1737117                   | 3    | Valve                                           |
|        | 29     | 1221-1737114                 | 3    | Plug                                            |
|        | 30     | 80-1737113                   | 1    | Spring                                          |
|        | 31     | 80-1737118                   | 1    | Spring                                          |
|        | 32     | 80-1737112                   | 1    | Gasket                                          |
|        | 33     | 50-1404059-Б1                | 1    | Cap gasket                                      |
|        | 34     | 240-1404013-Б                | 1    | Pipe                                            |
|        | 35     | 240-1404012-Б                | 1    | Rotor axis                                      |
|        | 36     | BM6x14                       | 3    | Screw                                           |
|        | 37     | 240-1404019-Б                | 1    | Housing cover                                   |
|        | 38     | 2401404028                   | 1    | Pin                                             |
|        | 39     | 80-1028090-Б                 | 1    | Nozzle                                          |
|        | 40     | 240-1404118                  | 1    | Ring                                            |
|        | 41     | 017-022-30-1-4               | 1    | Ring                                            |

\* Upon demand





**Group 18. Drive of front driving axle**  
**Subgroup 1802. Drive of front driving axle**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                              |
|-------------|--------|------------------------------|------|-----------------------------------|
| <b>18.1</b> |        | 1221-1802030                 | 1    | Friction (1221-1802040, 8-22, 25) |
|             |        | 1221-1802040                 | 1    | Gear (6, 7, 23, 24)               |
|             |        | 1221-1802065-B               | 1    | Shaft (28, 30-36)                 |
|             |        | 2022Д-1802070                | 1    | Shaft (37, 38)                    |
|             | 1      | 1221-1802023                 | 1    | Nut                               |
|             | 2      | 1221-1802019                 | 1    | Washer                            |
|             | 3      | 80-1701397                   | 1    | Ring                              |
|             | 3a     | 86-1802024-A                 | 1    | Bushing                           |
|             | 4      | 6-50306K                     | 1    | Bearing                           |
|             | 5      | 86-1802043                   | 1    | Bushing                           |
|             | 6      | 206A                         | 2    | Bearing GOST 8338-75              |
|             | 7      | 1221-1802041                 | 1    | Gear                              |
|             | 8      | C135                         | 1    | Ring GOST 13941-86                |
|             | 9      | 86-1802034                   | 1    | Thrust disk                       |
|             | 10     | 86-1802032*                  | 3-4  | Driven disk S=1,8 mm              |
|             |        | 1221-1802032*                | 3-4  | Driven disk S=2 mm                |
|             | 11     | C48                          | 1    | Ring GOST 13940-86                |
|             | 12     | 86-1802039                   | 2    | Guide                             |
|             | 13     | 86-1802048                   | 2    | Spring                            |
|             | 14     | 1221-1802031                 | 1    | Piston                            |
|             | 15     | 86-1802047                   | 1    | Ring                              |
|             | 16     | 1221-1802036                 | 1    | Drum                              |
|             | 17     | 86-1802083-A                 | 2    | Ring                              |
|             | 18     | 1221-1802333                 | 1    | Ring                              |
|             | 19     | 86-1802038                   | 1    | Spring                            |
|             | 20     | 86-1802046                   | 1    | Sleeve                            |
|             | 21     | 86-1802035-A                 | 7    | Drive disk                        |
|             | 22     | 1221-1802044                 | 1    | Bushing                           |
|             | 23     | C62                          | 1    | Ring GOST 13943-86                |
|             | 24     | 86-1802049                   | 1    | Ring                              |
|             | 25     | 1221-1802025                 | 1    | Cage                              |
|             | 26     | 86-1802028                   | 1    | Bushing                           |
|             | 27     | 8020-1802026                 | 1    | Half coupling                     |
|             | 28     | 1221-1802013-B               | 1    | Shaft                             |
|             | 29     | 86-1802027                   | 1    | Spring                            |
|             | 30     | 86-1802051                   | 1    | Washer                            |
|             | 31     | 207                          | 1    | Bearing GOST 8338-75              |
|             | 32     | 86-1802052                   | 1    | Washer                            |
|             | 33     | 52-2308097                   | 1    | Nut                               |
|             | 34     | 86-1802014-B                 | 1    | Bushing                           |
|             | 35     | A.8x40.65Г                   | 1    | Pin GOST 14229-93                 |
|             | 36     | 1,6-0-C                      | 1    | Wire L=140 mm                     |
|             | 37     | 86-1802017-B                 | 1    | Ring                              |
|             | 38     | 2022Д-1802042                | 1    | Shaft                             |

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\* Selection

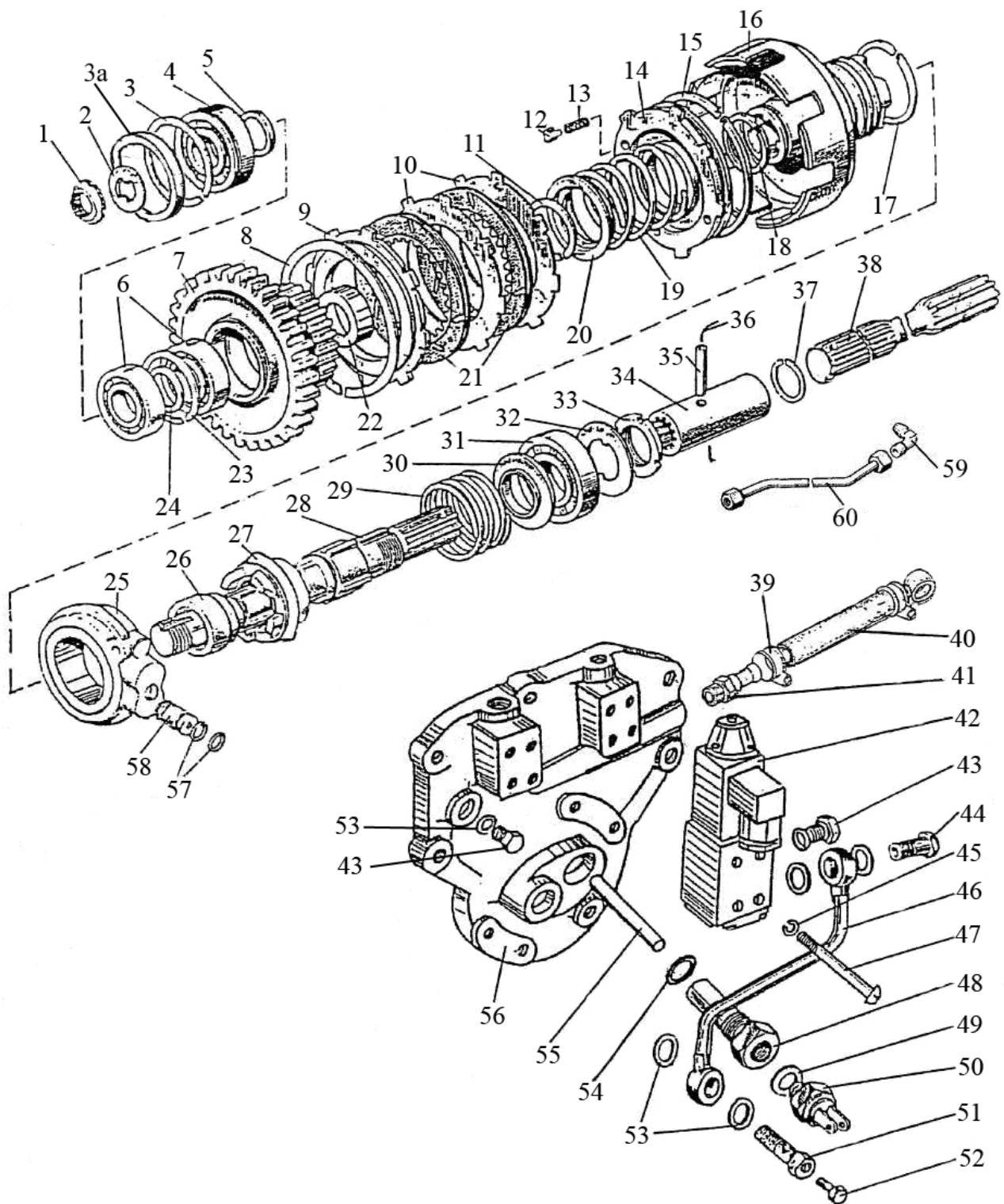


Fig. 18.1. Drive of front driving axle

**Group 18. Drive of front driving axle**  
**Subgroup 1802. Drive of front driving axle**

| Fig.No      | Pos.No | Assembly unit or part number                          | Q-ty    | Name                                                                                                      |
|-------------|--------|-------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------|
| <b>18.1</b> | 39     | 12-20/9 C6W                                           | 1       | Clamp «NORMA»                                                                                             |
|             | 40     | 1221-1802060-B                                        | 1       | Pipe line                                                                                                 |
|             | 41     | 85-3407470                                            | 1       | Union body                                                                                                |
|             | 42     | RH 06101-012/00GA-AMP<br>or<br>1 PGE-6T/3.574E.Г12.01 | 1       | Hydraulic distributor valve TU 213.201.011-98<br><br>Hydraulic distributor valve TU RB 400051624.093-2004 |
|             | 43     | 1221-1802091                                          | 3       | Thread plug                                                                                               |
|             | 44     | Д18-051                                               | 1       | Bolt                                                                                                      |
|             | 45     | 5T                                                    | 8       | Washer OST 37.001.115-75                                                                                  |
|             | 46     | 1221-1802050                                          | 1       | Pipe line                                                                                                 |
|             | 47     | B.M5x50-6gx50.58.019                                  | 8       | Screw GOST 17473-80                                                                                       |
|             | 48     | 8020-1802018                                          | 1       | Guide                                                                                                     |
|             | 49     | 50-1702048*                                           | 6 (max) | Gasket                                                                                                    |
|             | 50     | BK 12-51                                              | 1       | Switch                                                                                                    |
|             | 51     | 1520-1802088                                          | 1       | Bolt                                                                                                      |
|             | 52     | КГ 1/8".A12.019                                       | 1       | Plug TU 23.1.506-91                                                                                       |
|             | 53     | Д18-055-A                                             | 7       | O-ring                                                                                                    |
|             | 54     | 019-022-19-2-2                                        | 1       | Ring GOST 18829-73/GOST 9833-73                                                                           |
|             | 55     | 8020-1802029                                          | 1       | Lifter                                                                                                    |
|             | 56     | 1221-1802016                                          | 1       | Cover                                                                                                     |
|             | 57     | 011-016-30-2-4                                        | 2       | Ring GOST 18829-73/GOST 9833-73                                                                           |
|             | 58     | 1221-1802054                                          | 1       | Bushing                                                                                                   |
|             | 59     | 86-1802088                                            | 1       | Elbow                                                                                                     |
|             | 60     | 86-1802055                                            | 1       | Pipe line                                                                                                 |

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\* Selection

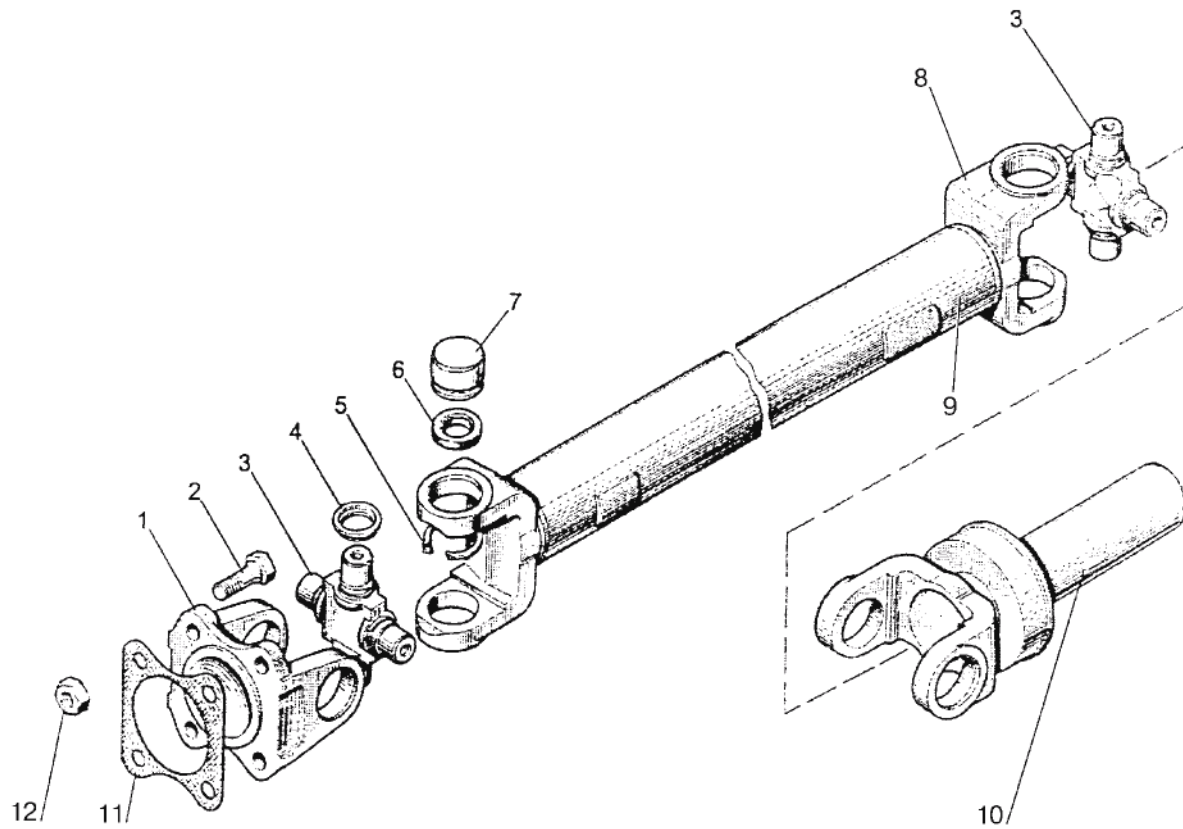


Fig. 22.1. Cardan drive

**Group 22. Cardan drive**  
**Subgroup 2203. Cardan drive**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                 |
|-------------|--------|------------------------------|------|--------------------------------------|
| <b>22.1</b> |        | 1221Д-2203010                | 1    | Cardan shaft (1, 3-10)               |
|             |        | 72-2203025PH                 | 2    | Cross bar with bearings (3, 4, 6, 7) |
|             | 1      | 72-2203023                   | 1    | Flange                               |
|             | 2      | 52-2203012                   | 4    | Bolt                                 |
|             | 3      | 72-2203030-01                | 1    | Cross bar                            |
|             | 4      | 3102-2201037                 | 4    | Deflector                            |
|             | 5      | 34-2201043                   | 4    | Lock ring                            |
|             | 6      | 69-2201 031-A                | 4    | Collar                               |
|             | 7      | 704702K3C10                  | 4    | Bearing                              |
|             | 8      | 72-2203022                   | 2    | Yoke                                 |
|             | 9      | 1221Д-2203018                | 1    | Pipe                                 |
|             | 10     | 86-2203047                   | 1    | Slip yoke                            |
|             | 11     | 20-2201024                   | 1    | Gasket                               |
|             | 12     | M10x1-8                      | 4    | Hexagon nut DIN 985                  |

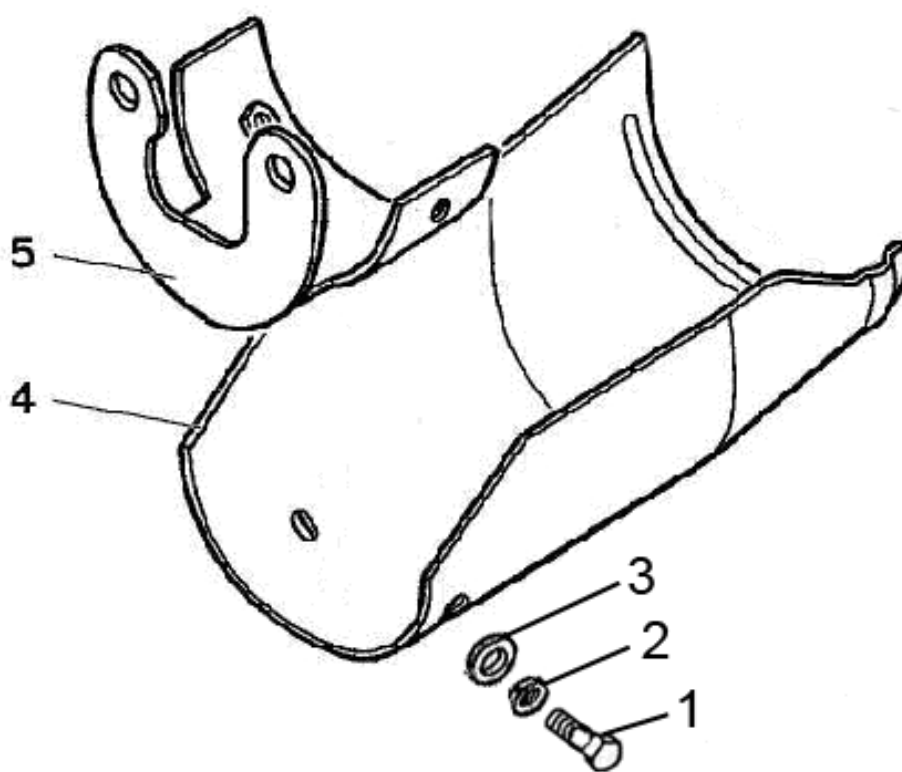
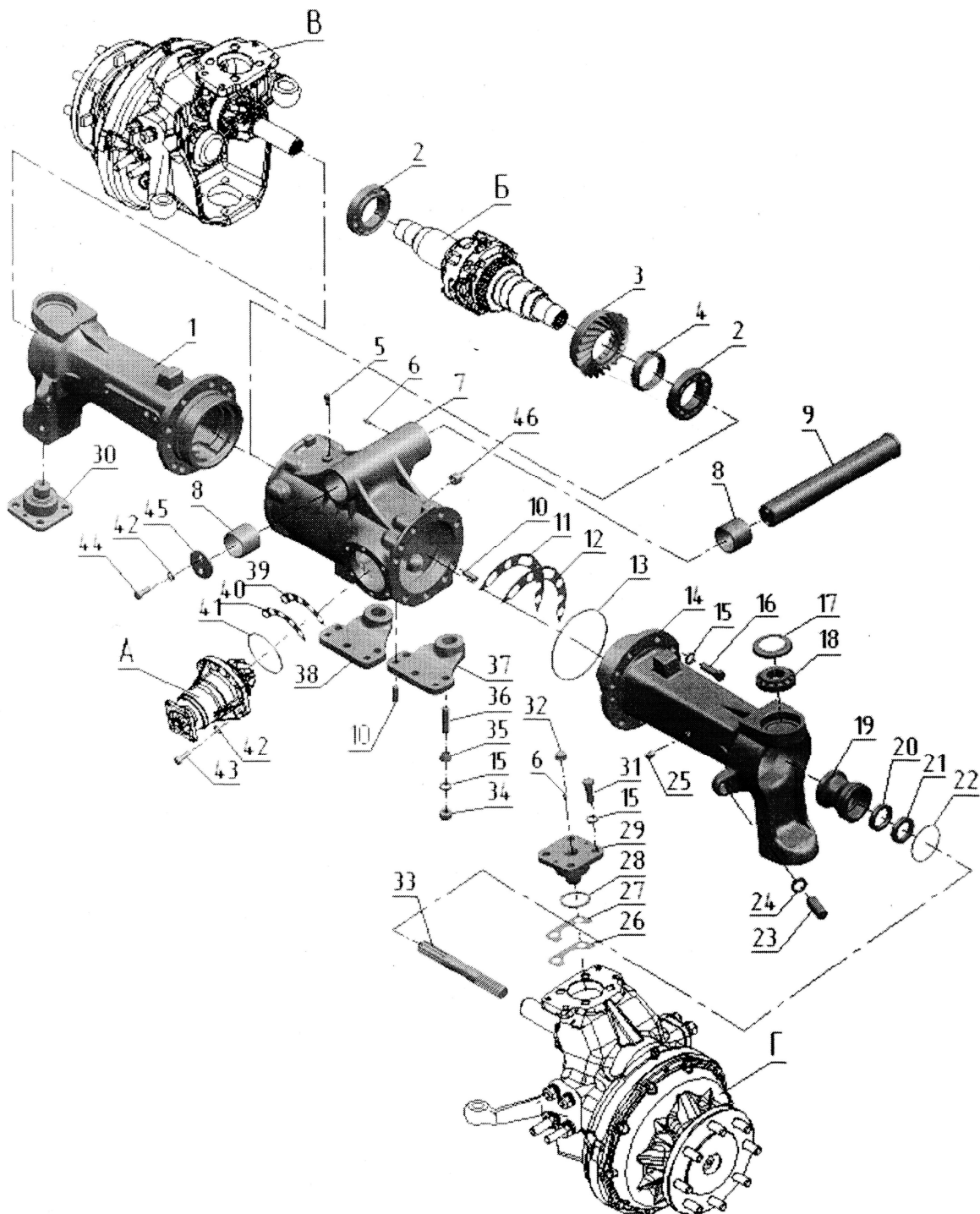


Fig. 22.2 Guard

**Group 22. Cardan drive**  
**Subgroup 2210. Guard**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                                 |
|--------|--------|------------------------------|------|--------------------------------------|
| 22.2   | 1      |                              | 2    | Bolt M8-6gx20.88.35.019 GOST 7796-70 |
|        | 2      |                              | 2    | Washer 8T OST 37.001.115-75          |
|        | 3      |                              | 2    | Washer C 8.01.019 GOST 11371-78      |
|        | 4      | 52-2210012-A                 | 1    | Housing                              |
|        | 5      | 52-2210015                   | 1    | Bracket                              |





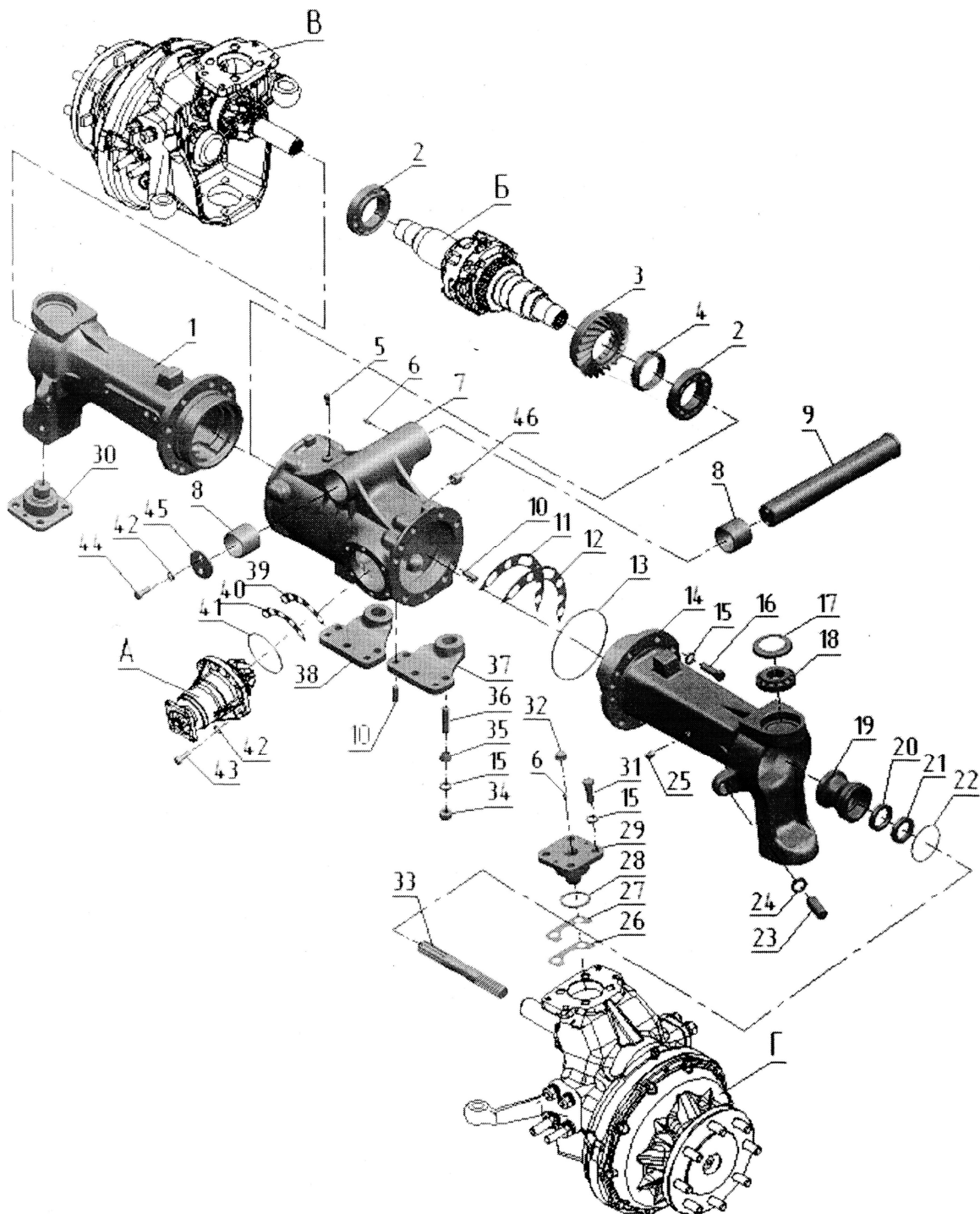
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**Group 23. Front driving axle**  
**Subgroup 2300, 2301. Front driving axle**

| Fig.No      | Pos.No | Assembly unit or part number        | Q-ty    | Name                                                |
|-------------|--------|-------------------------------------|---------|-----------------------------------------------------|
| <b>23.1</b> |        | 1222-2300020                        | 1       | Front driving axle assembly (for 3BM with U=23,429) |
|             |        | 1222-2300020-05                     | 1       | Front driving axle assembly (for 3BM with U=27,336) |
|             | A      | 52-2302010                          | 1       | Gear (see Fig. 23.2)                                |
|             | B      | 52-2303010-B-01                     | 1       | Differential (see Fig. 23.3)                        |
|             | B      | 822-2308005-02*<br>822-2308005-06** | 1       | Left wheel-hub drive (see Fig.23.4)                 |
|             | Г      | 822-2308005-03*<br>822-2308005-07** | 1       | Right wheel-hub drive (see Fig.23.4)                |
|             |        | 1420-2301055                        | 1       | Housing (8,9)                                       |
|             | 1      | 822-2301051-01                      | 1       | Left hose                                           |
|             | 2      | 263212A                             | 2       | Bearing TU RB 00234873.002-97                       |
|             | 3      | 52-2302019                          | 1       | Gear                                                |
|             | 4      | 52-2302038-A1                       | 1       | Nut                                                 |
|             | 5      | «MINTOR»TSS0G-1/8"                  | 1       | Breather                                            |
|             | 6      | 1.3.Ц9.xp                           | 1       | Oiler GOST 19853-74                                 |
|             | 7      | 1420-2301054                        | 1       | Housing                                             |
|             | 8      | 40-3001022                          | 2       | Bushing                                             |
|             | 9      | 1222-3000012                        | 1       | Axis pin                                            |
|             | 10     | Д01-015                             | 8       | Adjusting pin                                       |
|             | 11     | 52-2303027                          | 16(max) | Shim B=0,5 mm                                       |
|             | 12     | 52-2303028                          | 16(max) | Shim B=0,2 mm                                       |
|             | 13     | 150-156-36-1-4                      | 2       | Ring GOST 18829-73/GOST9833-73                      |
|             | 14     | 822-2301053-01                      | 1       | Right hose                                          |
|             | 15     | 16 OT                               | 36      | Washer OST 37.001.115-75                            |
|             | 16     | M16-6gx45.88.35.019                 | 14      | GOST 7796-70                                        |
|             | 17     | 1520-2308039                        | 4       | Sleeve                                              |
|             | 18     | 1027307A(31307)                     | 4       | Bearing GOST 27365-87                               |
|             | 19     | 822-2308100                         | 2       | Cage                                                |
|             | 20     | 1.2-38x58-1                         | 2       | Collar GOST 8752-79/OST 3805146-78                  |
|             | 21     | 2.2-38x58-1                         | 2       | Collar GOST 8752-79/OST 3805146-78                  |
|             | 22     | 075-080-30-1-4                      | 2       | Ring GOST 18829-73/GOST 9833-73                     |
|             | 23     | 1520-2308009                        | 2       | Screw                                               |
|             | 24     | 85-3407113                          | 2       | Nut                                                 |
|             | 25     | ПК КГ 3/8"                          | 2       | Plug                                                |
|             | 26     | 52-2302021                          | 6(max)  | Shim B=0,5 mm                                       |
|             | 27     | 52-2302022                          | 10(max) | Shim B=0,2 mm                                       |
|             | 28     | 055-063-46-1-4                      | 4       | Ring GOST 18829-73/GOST 9833-73                     |
|             | 29     | 1520-2308037                        | 3       | Axis                                                |
|             | 30     | 1520-2308037-01                     | 1       | Axis                                                |
|             | 31     | M16-6gx40.88.35.019                 | 16      | Bolt GOST 7796-70                                   |
|             | 32     | 85-4607447                          | 4       | Cap                                                 |
|             | 33     | 822-2308065-01                      | 2       | Shaft                                               |
|             | 34     | M16-6H.6.019                        | 6       | Nut GOST 5915-70                                    |
|             | 35     | 1520-2308077                        | 6       | Bushing                                             |
|             | 36     | 1520-2308079                        | 6       | Stud                                                |
|             | 37     | 1222-2301021-B                      | 1       | Right bracket                                       |
|             | 38     | 1222-2301022-B                      | 1       | Left bracket                                        |
|             | 39     | 1520-2308042                        | 8(max)  | Shim B=0,2 mm                                       |
|             | 40     | 1520-2308042-01                     | 20(max) | Shim B=0,5 mm                                       |

\* For FDA 1222-2300020

\*\* For FDA 1222-2300020-05



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**Group 23. Front driving axle**  
**Subgroup 2300, 2301. Front driving axle**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                            |
|-------------|--------|------------------------------|------|---------------------------------|
| <b>23.1</b> | 41     | 089-095-36-1-4               | 1    | Ring GOST 18829-73/GOST 9833-73 |
|             | 42     | 12 OT                        | 8    | Washer OST 37.001.115-75        |
|             | 43     | M12 -6gx35.88.019            | 6    | Bolt GOST 7796-70               |
|             | 44     | 72-2308018                   | 2    | Bolt                            |
|             | 45     | 72-2308031                   | 1    | Washer                          |
|             | 46     | ПК КГ 3/4"                   | 2    | Plug                            |

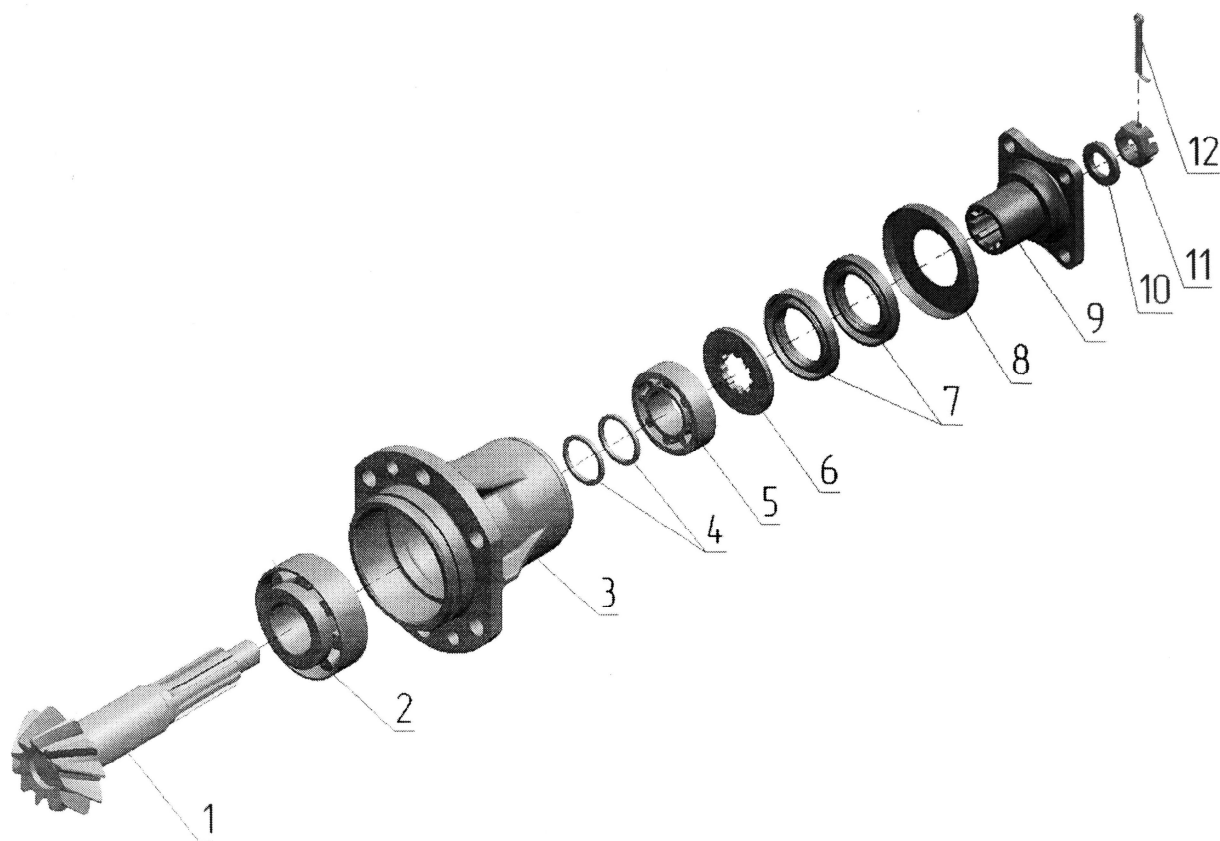


Fig. 23.2 Gear

**Group 23. Front driving axle  
Subgroup 2302. Gear**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                             |
|-------------|--------|------------------------------|------|--------------------------------------------------|
| <b>23.2</b> |        | 52-2302010-P                 | 1    | Gear set (1-12, 3 (Fig. 23.1))                   |
|             |        | 52-2302030                   | 1    | Driven and drive gear assembly (1,3 (Fig. 23.1)) |
|             | 1      | 52-2302015-A                 | 1    | Drive gear                                       |
|             | 2      | 7607A or 6-7607AY            | 1    | Bearing GOST 27365-87                            |
|             | 3      | 52-2302016-A                 | 1    | Sleeve                                           |
|             | 4      | 52-2302026                   | 2*   | Adjusting washer B=2,65 mm (a)                   |
|             |        | 52-2302026-01                | 2*   | Adjusting washer B=2,70 mm (б)                   |
|             |        | 52-2302026-02                | 2*   | Adjusting washer B=2,75 mm (в)                   |
|             |        | 52-2302026-03                | 2*   | Adjusting washer B=2,90 mm (г)                   |
|             |        | 52-2302026-04                | 2*   | Adjusting washer B=3,05 mm (д)                   |
|             |        | 52-2302026-05                | 2*   | Adjusting washer B=3,20 mm (е)                   |
|             |        | 52-2302026-06                | 2*   | Adjusting washer B=3,30 mm (ж)                   |
|             |        | 52-2302026-07                | 2*   | Adjusting washer B=3,35 mm (з)                   |
|             |        | 52-2302026-08                | 2*   | Adjusting washer B=3,40 mm (и)                   |
|             | 5      | 7506A                        | 1    | Bearing GOST 27365-87                            |
|             | 6      | 52-2302018                   | 1    | Ring                                             |
|             | 7      | 2.2-38x62-1/4                | 2    | Collar GOST 8752-79/ OST 3805146-78              |
|             | 8      | 82-2302031                   | 1    | Blind plug                                       |
|             | 9      | 52-1802078-A                 | 1    | Flange                                           |
|             | 10     | 52-1802079                   | 1    | Washer                                           |
|             | 11     | 70-3003032                   | 1    | Nut                                              |
|             | 12     | 4x25.019                     | 1    | Forelock GOST 397-79                             |
|             |        |                              |      |                                                  |

\* Selected at the bearing regulation

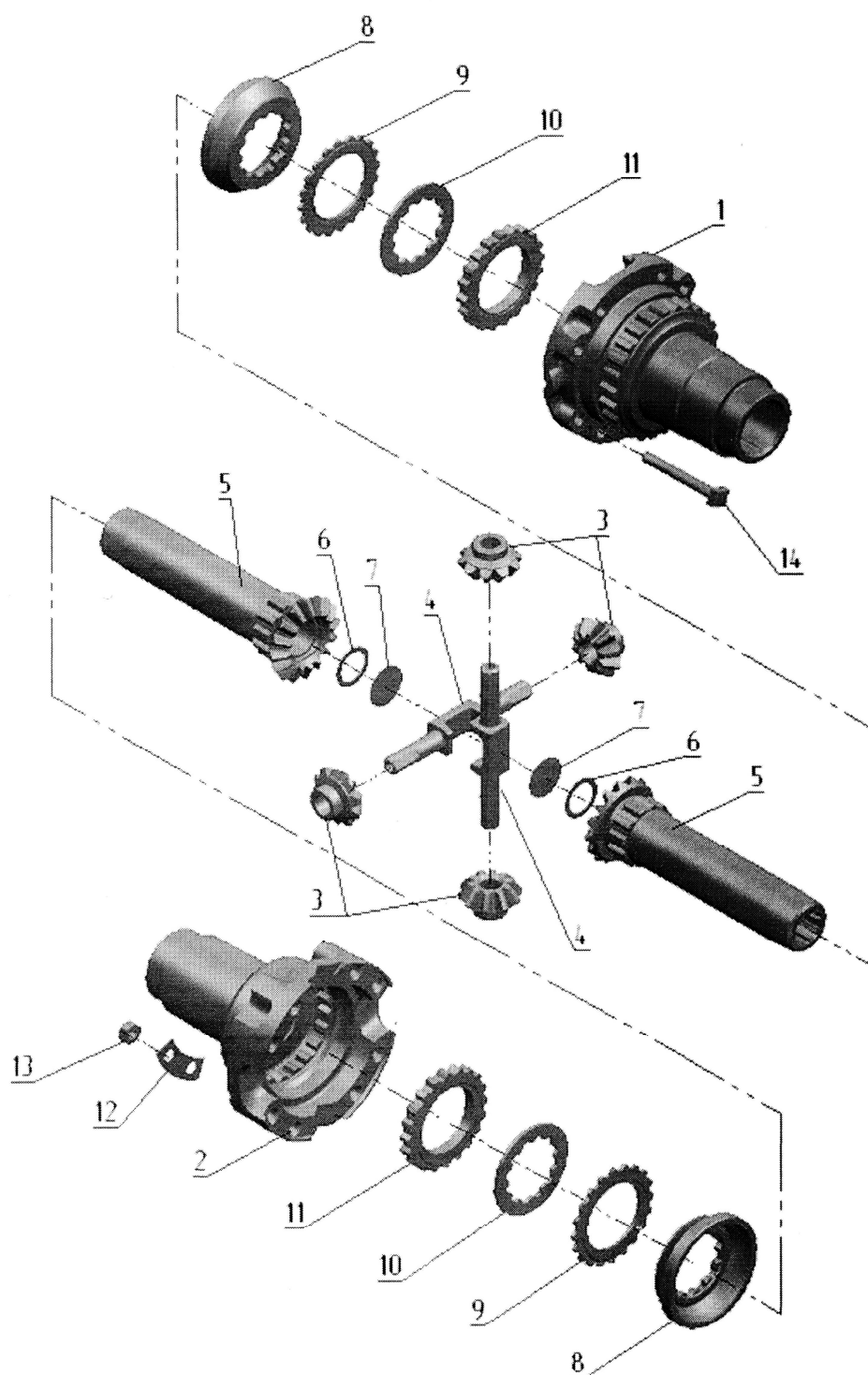


Fig. 23.3 Differential

**Group 23. Front driving axle**  
**Subgroup 2302. Gear**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                    |
|-------------|--------|------------------------------|------|-------------------------|
| <b>23.3</b> |        | 52-2303010-Б                 | 1    | Differential (1-14)     |
|             |        | 52-0203030                   | 2    | Gear(5-7)               |
|             | 1      | 52-2303014-Б                 | 1    | Box                     |
|             | 2      | 52-2303015-Б                 | 1    | Box                     |
|             | 3      | 52-2303018                   | 4    | Satellite gear          |
|             | 4      | 52-2303019                   | 2    | Axis                    |
|             | 5      | 52-2303017                   | 2    | Gear                    |
|             | 6      | 52-2303034                   | 2    | Gasket                  |
|             | 7      | 35-10кп.Л9.хр                | 2    | Blind plug GOST 3111-81 |
|             | 8      | 52-2303021                   | 2    | Cup                     |
|             | 9      | 52-2303023-A1-01             | 2    | Disk                    |
|             | 10     | 52-2303024-01                | 2    | Disk                    |
|             | 11     | 52-2303023-A1                | 2    | Disk                    |
|             | 12     | 52-2303032                   | 4    | Plate                   |
|             | 13     | 52-2303013                   | 8    | Nut                     |
|             | 14     | 52-2303026-Б                 | 8    | Bolt                    |



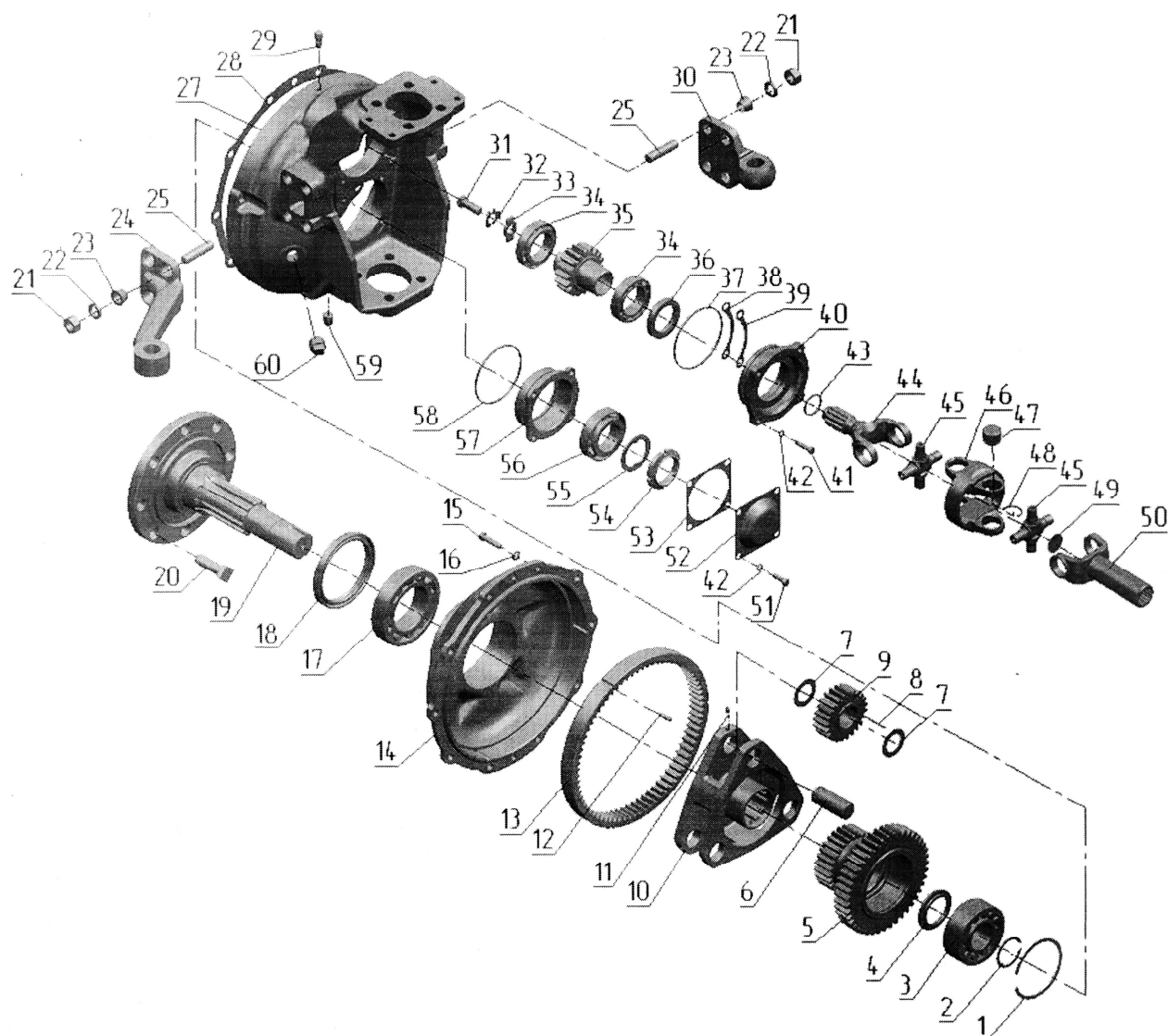


Fig. 23.4 Wheel-hub drive

**Group 23. Front driving axle**  
**Subgroup 2308. Wheel-hub drive**

| Fig.No      | Pos.No | Assembly unit or part number        | Q-ty | Name                              |
|-------------|--------|-------------------------------------|------|-----------------------------------|
| <b>23.4</b> |        | 822-2308005-06**<br>822-2308005-02* | 1    | Wheel-hub drive (1-60)            |
|             |        | 822-2308005-07**<br>822-2308005-03* | 1    | Wheel-hub drive (1-60)            |
|             |        | 1520-2308024-20A                    | 2    | Double hinge (43-50)              |
|             |        | 1520-2308040-05**<br>1520-2308040*  | 2    | Housing (27, 29, 31-50)           |
|             |        | 1520-2308080                        | 2    | Sleeve (36, 37 40)                |
|             |        | 1521-2308020                        | 2    | Cover (12-14)                     |
|             |        | 1521-2308030                        | 2    | Pinion cage (6-11)                |
|             |        | 1521-2308050-05**<br>1521-2308050*  | 2    | Hub (1-20)                        |
|             | 1      | 2C100                               | 2    | Ring GOST 13941-86                |
|             | 2      | C45                                 | 2    | Ring GOST 13940-86                |
|             | 3      | 53609                               | 2    | Bearing GOST 24696-81             |
|             | 4      | 1520-2308038                        | 2    | Ring                              |
|             | 5      | 1520-2308062-05**<br>1520-2308062*  | 2    | Gear set Z=40<br>Gear set Z=44    |
|             | 6      | 1520-2308053                        | 6    | Axis                              |
|             | 7      | 1520-2308054                        | 12   | Washer                            |
|             | 8      | 4x34,8A3                            | 156  | Roller GOST 6870-81               |
|             | 9      | 1520-2308059                        | 6    | Satellite gear                    |
|             | 10     | 1521-2308056                        | 2    | Pinion cage                       |
|             | 11     | 1520-2308011                        | 6    | Screw                             |
|             | 12     | 2.8x25                              | 6    | Pin GOST 3128-70                  |
|             | 13     | 1520-2308064                        | 2    | Gear                              |
|             | 14     | 1521-2308016                        | 2    | Cover                             |
|             | 15     | M10-6gx35.88.019                    | 20   | Bolt GOST 7796-70                 |
|             | 16     | 16 OT                               | 20   | Washer OST 37.001.115-75          |
|             | 17     | 7514A                               | 2    | Bearing GOST 27365-87             |
|             | 18     | 2.2-100x125-1                       | 2    | Collar GOST 8752-79/OST3805146-78 |
|             | 19     | 1521-2308017                        | 2    | Flange                            |
|             | 20     | 40-3103016                          | 16   | Front wheel bolt                  |
|             | 21     | M16-6H.6.019                        | 16   | Nut GOST 5915-70                  |
|             | 22     | 16 OT                               | 16   | Washer OST 37.001.115-75          |
|             | 23     | 1520-2308077                        | 12   | Bushing                           |
|             | 24     | 1520-2308074                        | 1    | Left lever                        |
|             |        | 1520-2308074-01                     | 1    | Right lever                       |
|             | 25     | 1520-2308079                        | 16   | Stud                              |
|             | 27     | 1520-2308015                        | 2    | Housing                           |
|             | 28     | 1520-2308034                        | 2    | Gasket                            |
|             | 29     | «MINTOR» TSS0G-1/8"                 | 2    | Breather                          |
|             | 30     | 1222-2308076                        | 1    | Right bracket                     |
|             |        | 1222-2308077                        | 1    | Left bracket                      |
|             | 31     | 1521-2308012                        | 2    | Bolt                              |
|             | 32     | 1521-2308031                        | 2    | Locking plate                     |
|             | 33     | 1521-2308013                        | 2    | Washer                            |
|             | 34     | 2007109                             | 4    | Bearing GOST 27365-87             |
|             | 35     | 1520-2308061-05**                   | 2    | GearZ=14                          |
|             |        | 1520-2308061*                       |      | GearZ=17                          |

\*\* For FDA 1222-2300020-05

\* For FDA 1222-2300020

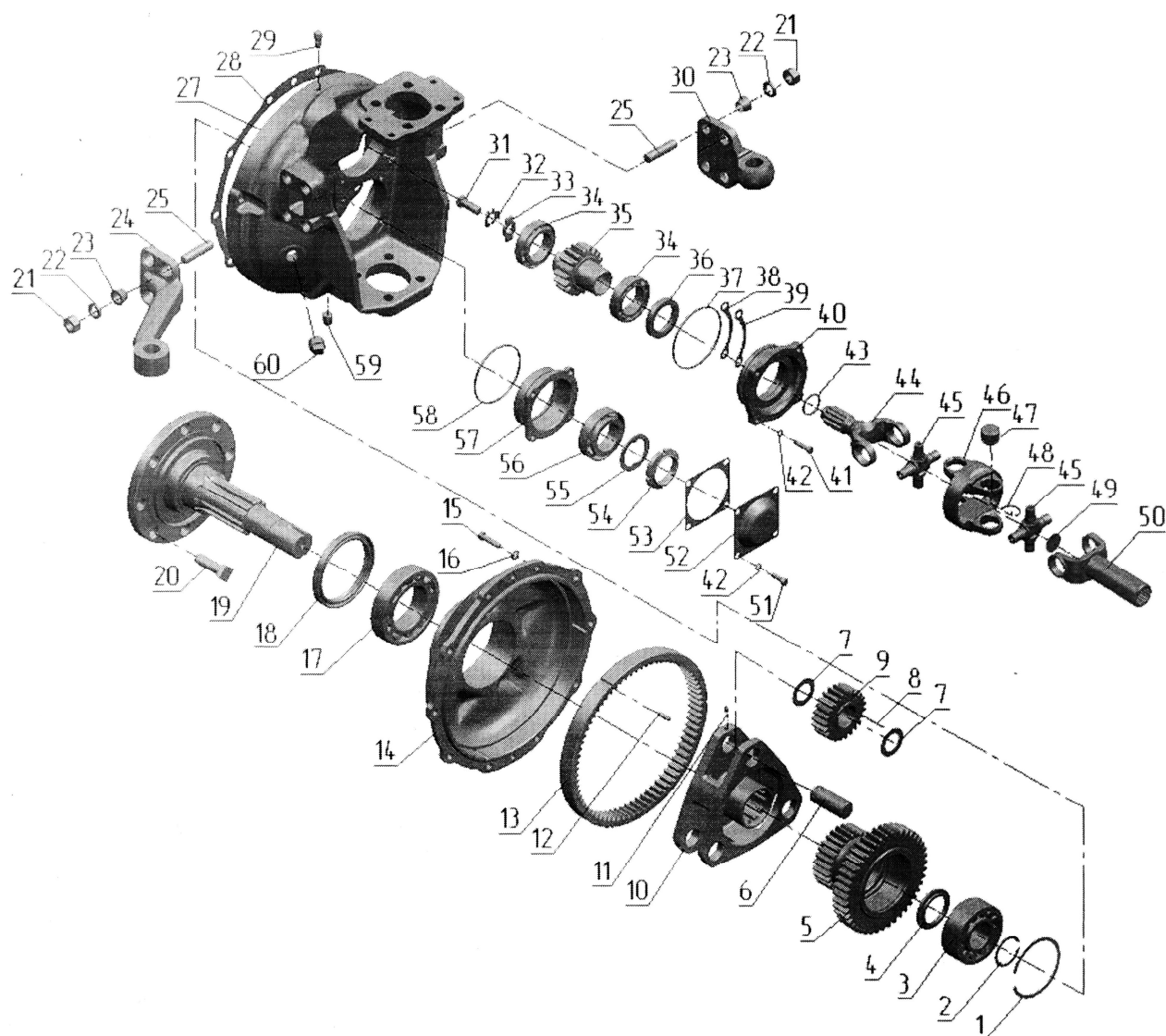


Fig. 23.4 Wheel-hub drive

**Group 23. Front driving axle**  
**Subgroup 2308. Wheel-hub drive**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty    | Name                               |
|-------------|--------|------------------------------|---------|------------------------------------|
| <b>23.4</b> | 36     | 2.2-45x65-1                  | 2       | Collar GOST 8752-79/OST 3805146-78 |
|             | 37     | 100-105-30-2-4               | 2       | Ring GOST 18829-73/GOST 9833-73    |
|             | 38     | 1520-2308021                 | 20(max) | Shim                               |
|             | 39     | 1520-2308021-01              | 8(max)  | Shim                               |
|             | 40     | 1520-2308035                 | 2       | Sleeve                             |
|             | 41     | M8-6gx30.88.35.019           | 8       | Bolt GOST 7796-70                  |
|             | 42     | 8T                           | 16      | Washer OST 37.001.115-75           |
|             | 43     | 032-036-25-2-4               | 2       | Ring GOST 18829-73/GOST 9833-73    |
|             | 44     | 1520-2308063-10              | 2       | Yoke                               |
|             | 45     | 72-2203026-11                | 4       | Cross bar                          |
|             | 46     | 1520-2308066-01              | 2       | Double yoke                        |
|             | 47     | 704702K3C10                  | 16      | Bearing                            |
|             | 48     | 34-2201043-01                | 16(max) | Lock ring                          |
|             |        | 34-2201043-10                | 16(max) | Lock ring                          |
|             |        | 34-2201043-20                | 16(max) | Lock ring                          |
|             |        | 34-2201043-30                | 16(max) | Lock ring                          |
|             | 49     | 32-10кп.Ц9.xp                | 2       | Blind plug GOST3111-81             |
|             | 50     | 1520-2308048                 | 2       | Yoke                               |
|             | 51     | M8-6gx25.88.35.019           | 8       | Bolt GOST 7796-70                  |
|             | 52     | 1520-2308004                 | 2       | Cover                              |
|             | 53     | 1520-2308003                 | 2       | Gasket                             |
|             | 54     | 80-1701045                   | 2       | Nut                                |
|             | 55     | 80-1701056                   | 2       | Washer                             |
|             | 56     | 7509A                        | 2       | Bearing GOST 27365-87              |
|             | 57     | 1520-2308002                 | 2       | Sleeve                             |
|             | 58     | 095-100-30-1-4               | 2       | Ring GOST 18829-73/GOST 9833-73    |
|             | 59     | ПК КГ 3/8"                   | 2       | Plug                               |
|             | 60     | ПК КГ 3/4"                   | 2       | Plug                               |

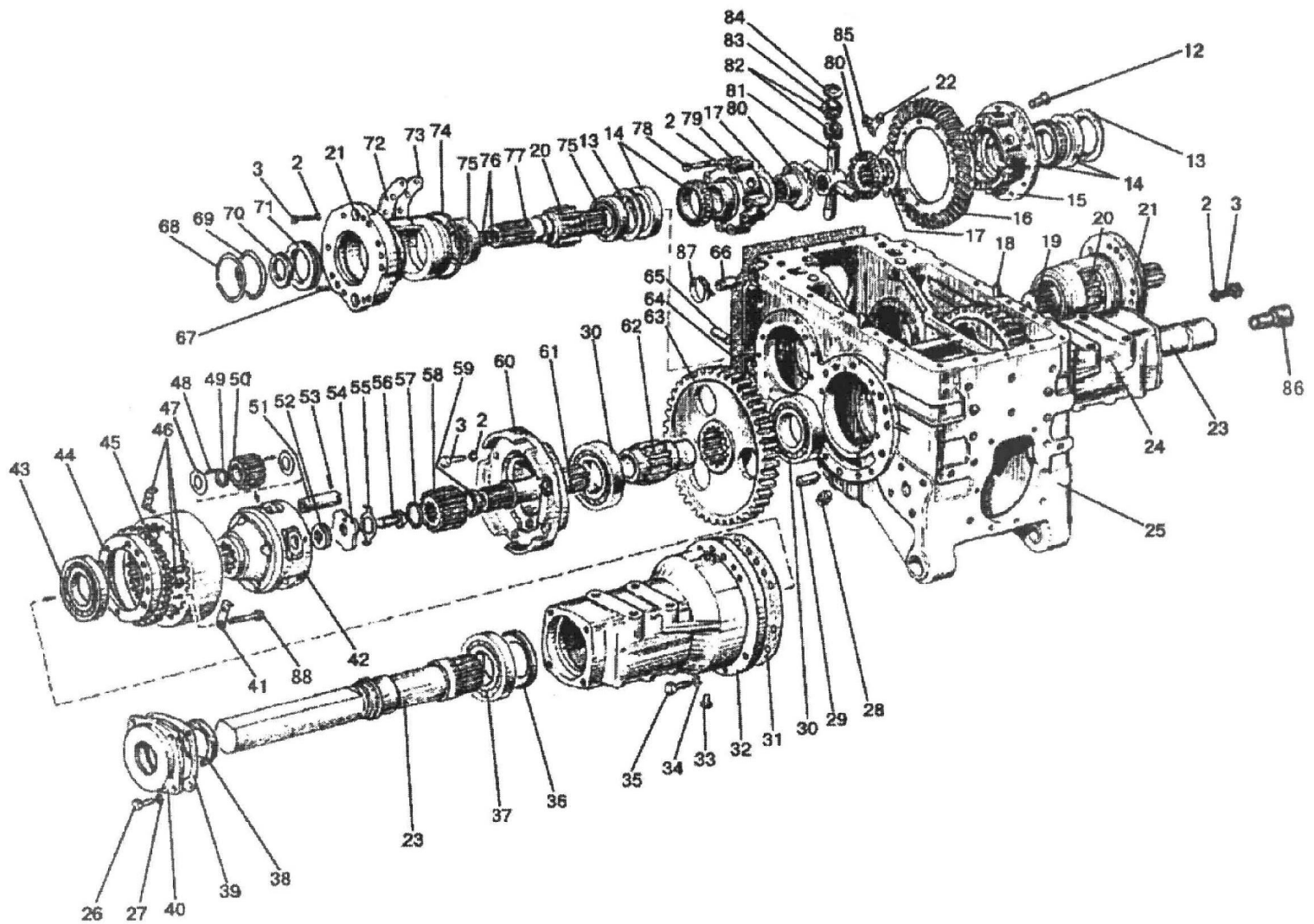


Fig. 24.1 Rear axle. Differential. Final drives

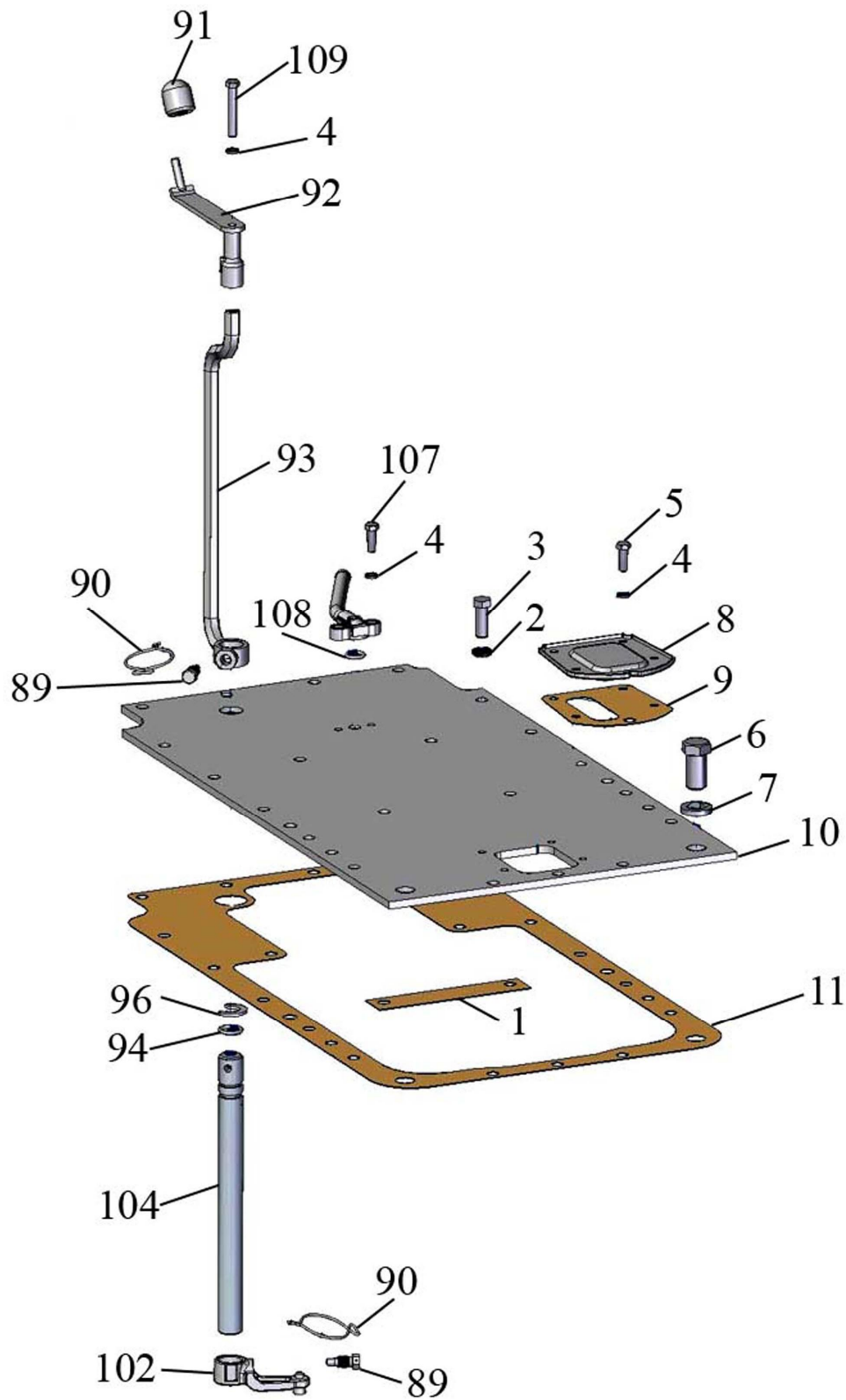


Fig. 24.1a. Rear axle. Differential. Final drives

**Group 24. Rear axle**  
**Subgroup 2401, 2403, 2407. Rear axle. Differential.**  
**Final drives**

| Fig.No                      | Pos.No | Assembly unit or part number | Q-ty | Name                                                                                     |
|-----------------------------|--------|------------------------------|------|------------------------------------------------------------------------------------------|
| <b>24.1</b><br><b>24.1a</b> |        | 1221-2401010-05              | 1    | Rear axle<br>(With hydraulic hoist; z=27, Z=54; dry brakes)                              |
|                             |        | 1221M-2401010-05             | 1    | Rear axle<br>(With hydraulic hoist; z=27, Z=54; wet brakes)                              |
|                             |        | 1221-2401010-07              | 1    | Rear axle<br>(With hydraulic hoist; z=24, Z=56; dry brakes)                              |
|                             |        | 1221M-2401010-07             |      | Rear axle<br>(With hydraulic hoist; z=24, Z=56; wet brakes)                              |
|                             |        | 1221-2401015-05              | 1    | Rear axle housing (25, 65, 66, 910)<br>(With hydraulic hoist)                            |
|                             |        | 1522-2403010-A               | 1    | Differential<br>(2, 12, 14, 16, 17, 22, 78, 80-85)                                       |
|                             |        | 1522-2403015-02              | 1    | Differential housing (15, 79)                                                            |
|                             |        | 1221-2407060-02              | 1    | Left sleeve (13, 20, 21, 68-71, 74-77) (z=27, Z=54; dry brakes)                          |
|                             |        | 1221M-2407060                | 1    | Left sleeve (13, 20, 74, 75, 77, 89) (z=27, Z=54; wet brakes)                            |
|                             |        | 1521-2407060                 | 1    | Left sleeve (13, 14, 20, 21, 74-77) (z=24, Z=56; dry brakes)                             |
|                             |        | 1523M-2407060-02             | 1    | Left sleeve (13, 74, 75, 77, 89)<br>(z=24, Z=56; wet brakes)                             |
|                             |        | 1221-2407060-03              | 1    | Right sleeve (13, 19-21, 68-71, 74-76)<br>(z=27, Z=54; dry brakes)                       |
|                             |        | 1221M-2401060-01             | 1    | Right sleeve (13, 19-21, 74, 75)<br>(z=27, Z=54; wet brakes)                             |
|                             |        | 1521-2407060-01              | 1    | Right sleeve (13, 19-21, 68-71, 74-76)<br>(z=24, Z=56; dry brakes)                       |
|                             |        | 1523M-2407060-03             | 1    | Right sleeve (13, 19-20, 74, 75)<br>(z=24, Z=56; wet brakes)                             |
|                             |        | 1221-2407540                 | 2    | Drive gear (57-59, 61)                                                                   |
|                             |        | 1221-2407500                 | 1    | Left final drive (23, 26, 27, 29, 32, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (dry brakes) |
|                             |        | 1221-2407500-02              | 1    | Left final drive (23, 26, 27, 29, 32, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (wet brakes) |
|                             |        | 1221-2407500-01              | 1    | Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56)<br>(dry brakes) |
|                             |        | 1221-2407500-03              | 1    | Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56)<br>(wet brakes) |
|                             |        | 1221-2407035-A1              | 2    | Pinion cage (42, 47-51, 53)                                                              |
|                             |        | 1221-2407030                 | 2    | Cover (38, 40)                                                                           |
|                             |        | 1221-2407130                 | 2    | Sleeve (30, 60)                                                                          |

**Group 24. Rear axle**  
**Subgroup 2401, 2403, 2407. Rear axle. Differential.**  
**Final drives**

| Fig.No                      | Pos.No | Assembly unit or part number       | Q-ty | Name                                        |
|-----------------------------|--------|------------------------------------|------|---------------------------------------------|
| <b>24.1</b><br><b>24.1a</b> | 1      | 1221-2401028                       | 1    | Gasket                                      |
|                             | 2      | ШП 12                              | 24   | Washer                                      |
|                             | 3      | M12x35                             | 24   | Bolt (dry brakes)                           |
|                             |        | 80M-2407041                        | 14   | Bolt (wet brakes)                           |
|                             | 4      | ШП 8                               | 7    | Washer                                      |
|                             | 5      | M8x25                              | 4    | Bolt                                        |
|                             | 6      | 600-2401026                        | 2    | Bolt                                        |
|                             | 7      | ШП 20                              | 4    | Washer                                      |
|                             | 8      | 1221-2401026                       | 1    | Cover                                       |
|                             | 9      | 50-2401027-A                       | 1    | Gasket                                      |
|                             | 10     | 1221-2401024                       | 1    | Cover                                       |
|                             | 11     | 1221.1-2401025                     | 1    | Gasket                                      |
|                             | 12     | 50-1702092                         | 12   | Tight-fitting bolt M12x42                   |
|                             | 13     | 1221-2407043                       | 2    | Ring                                        |
|                             | 14     | 7216A                              | 2    | Bearing                                     |
|                             | 15     | 1522-2403018-02                    | 1    | Housing                                     |
|                             | 16     | 50-2403021-B                       | 1    | Driven gear                                 |
|                             | 17     | 1220-2403049                       | 2    | Thrust washer                               |
|                             | 18     | Д01-015                            | 2    | Pin                                         |
|                             | 19     | 1521-2407053-01                    | 1    | Shaft (dry brakes)                          |
|                             |        | 1221M-2407053-01                   | 1    | Shaft (wet brakes)                          |
|                             | 20     | 1221-2407052                       | 2    | Gear (z=27, Z=54)                           |
|                             |        | 1522-2407052                       | 2    | Gear (z=24, Z=56)                           |
|                             | 21     | 1221-2407042                       | 2    | Bearing sleeve (dry brakes)                 |
|                             |        | 1221M-2407042-01                   | 1    | Right bearing sleeve (wet brakes)           |
|                             |        | 1221M-2407042                      | 1    | Left bearing sleeve (wet brakes)            |
|                             | 22     | 50-2403023                         | 6    | Locking plate                               |
|                             | 23     | 1221-2407082                       | 2    | Semi-axle                                   |
|                             | 24     | 1221-2407018-B-01                  | 1    | Right semi-axle tube (dry brakes)           |
|                             |        | 1221M-2407018-01                   | 1    | Right semi-axle tube (wet brakes)           |
|                             | 25     | 1221-2401016                       | 1    | Housing                                     |
|                             | 26     | M10x25                             | 8    | Bolt                                        |
|                             | 27     | ШП 10                              | 8    | Washer                                      |
|                             | 28     | 70-1701300                         | 1    | Magnetic plug 1 <sup>1</sup> / <sub>4</sub> |
|                             | 29     | 1221-2407508-01                    | 4    | Pin                                         |
|                             | 30     | 217A                               | 4    | Bearing                                     |
|                             | 31     | 1221-2407552                       | 2    | Gasket                                      |
|                             | 32     | 1221-2407018-B                     | 1    | Left semi-axle tube (dry brakes)            |
|                             |        | 1221M-2407018                      |      | Left semi-axle tube (wet brakes)            |
|                             | 33     | КГ 1 <sup>1</sup> / <sub>8</sub> " | 2    | Plug                                        |
|                             | 34     | ШП 16                              | 22   | Washer                                      |
|                             | 35     | M16x60                             | 22   | Bolt                                        |
|                             | 36     | 142-2407091                        | 2    | Ring                                        |



**Group 24. Rear axle**  
**Subgroup 2401, 2403, 2407. Rear axle. Differential.**  
**Final drives**

| Fig.No                      | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|-----------------------------|--------|------------------------------|------|--------------------------|
| <b>24.1</b><br><b>24.1a</b> | 37     | 7218A                        | 2    | Bearing                  |
|                             | 38     | 2.2-90x120-1                 | 2    | Collar                   |
|                             | 39     | 1221-2407089                 | 2    | Gasket                   |
|                             | 40     | 1221-2407028                 | 2    | Cover                    |
|                             | 41     | 1221-2407503-A               | 4    | Plate                    |
|                             | 42     | 1221-2407536-B               | 2    | Pinion cage              |
|                             | 43     | 7217A                        | 2    | Bearing                  |
|                             | 44     | 1221-2407502-B               | 2    | Epicycle hub             |
|                             | 45     | 5336-2405050-A               | 2    | Driven gear              |
|                             | 46     | 1221-2407512                 | 4    | Pin                      |
|                             |        | 1221-2407504                 | 8    | Plate                    |
|                             |        | 54.38.619                    | 4    | Ring                     |
|                             | 47     | 1221-2407538                 | 16   | Satellite gear washer    |
|                             | 48     | 5x27, 8A3                    | 368  | Roller                   |
|                             | 49     | 1221-2407539                 | 8    | Distance washer          |
|                             | 50     | 5336-2405035-A               | 8    | Satellite gear           |
|                             | 51     | 1221-2407556-A               | 8    | Satellite gear axis      |
|                             | 52     | 1221-2407506                 | 12   | Gasket 0,5 mm            |
|                             |        | 1221-2407506-01              | 12   | Gasket 0,2 mm            |
|                             | 53     | A.8x45.65Г                   | 8    | Pin                      |
|                             | 54     | 1221-2407537                 | 2    | Washer                   |
|                             | 55     | 1221-2407507                 | 2    | Washer                   |
|                             | 56     | 70-4605036                   | 2    | Bolt                     |
|                             | 57     | 2C55                         | 2    | Ring                     |
|                             | 58     | 5336-2405028-A               | 2    | Drive gear               |
|                             | 59     | 1221-2407542                 | 2    | Bushing                  |
|                             | 60     | 1221-2407131                 | 2    | Sleeve                   |
|                             | 61     | 1221-2407541                 | 2    | Shaft                    |
|                             | 62     | 1221-2407123                 | 2    | Bushing                  |
|                             | 63     | 1221-2407122                 | 2    | Driven gear (z=27, Z=54) |
|                             |        | 1522-2407122                 | 2    | Driven gear (z=24, Z=56) |
|                             | 64     | 80-2401016                   | 2    | Gasket                   |
|                             | 65     | 50-4605027                   | 1    | Pin                      |
|                             | 66     | 36-3502037-A                 | 2    | Bushing                  |
|                             | 67     | 50-1601352                   | 4    | Pin (dry brakes)         |
|                             |        | 80M-2407039                  | 4    | Pin (wet brakes)         |
|                             | 68     | C125                         | 2    | Ring (dry brakes)        |
|                             | 69     | 115-120-30-1-4               | 2    | Ring (dry brakes)        |
|                             | 70     | 2.2-52x75-1                  | 2    | Collar (dry brakes)      |
|                             | 71     | 1221-2407081                 | 2    | Cage (dry brakes)        |
|                             | 72     | 1221-2407056                 | 1-8  | Gasket 0,5 mm            |
|                             | 73     | 1221-2407057                 | 1-20 | Gasket 0,2 mm            |
|                             | 74     | 205-210-36-1-4               | 2    | Ring                     |
|                             | 75     | 311A                         | 4    | Bearing                  |
|                             | 76     | 035-040-30-1-4               | 4    | Ring (dry brakes)        |
|                             | 77     | 1521-2407053                 | 1    | Shaft (dry brakes)       |
|                             |        | 1221M-2407053                | 1    | Shaft (wet brakes)       |
|                             | 79     | 1522-2403019-02              | 1    | Cover                    |
|                             | 80     | 1522-2403048                 | 2    | Semi-axle gear           |
|                             | 81     | 1522-2403062-B               | 1    | Cross bar                |
|                             | 82     | 1522-2403057-B               | 4    | Satellite gear           |
|                             | 83     | 4x29,8A3                     | 100  | Roller                   |
|                             | 84     | 1522-2403025-B               | 4    | Satellite gear washer    |

**Group 24. Rear axle**

**Subgroup 2401, 2403, 2407. Rear axle. Differential. Final drives (wet brakes)**

| Fig.No                      | Pos.No | Assembly unit or part number | Q-ty | Name          |
|-----------------------------|--------|------------------------------|------|---------------|
| <b>24.1</b><br><b>24.1a</b> | 85     | M12                          | 12   | Nut           |
|                             | 86     | 50-4216024                   | 1    | Bushing       |
|                             | 87     | 2.2-25x42-1                  | 2    | Collar        |
|                             | 88     | 1221-2407505                 | 24   | Bolt          |
|                             | 89     | 36-1702110                   | 2    | Screw         |
|                             | 90     | 1,6-O-C                      | 2    | Wire (200 mm) |
|                             | 91     | A13.11.000-02                | 1    | Handle        |
|                             | 92     | 85-2401080-A                 | 1    | Lever         |
|                             | 93     | 85-2401050                   | 1    | Rack          |
|                             | 94     | 020-025-30-1-4               | 1    | Ring          |
|                             | 96     | 50-2401031                   | 1    | Washer        |
|                             | 102    | 50-2401020                   | 1    | Shifter arm   |
|                             | 103    | 74-2401050                   | 1    | Lever         |
|                             | 104    | 1221-2401019                 | 1    | Shaft         |
|                             | 106    | 1221-2400030                 | 1    | Tube          |
|                             | 107    | M8x30                        | 2    | Bolt          |
|                             | 108    | 017-022-30-1-4               | 1    | Ring          |
|                             | 109    | M8x55                        | 1    | Bolt          |

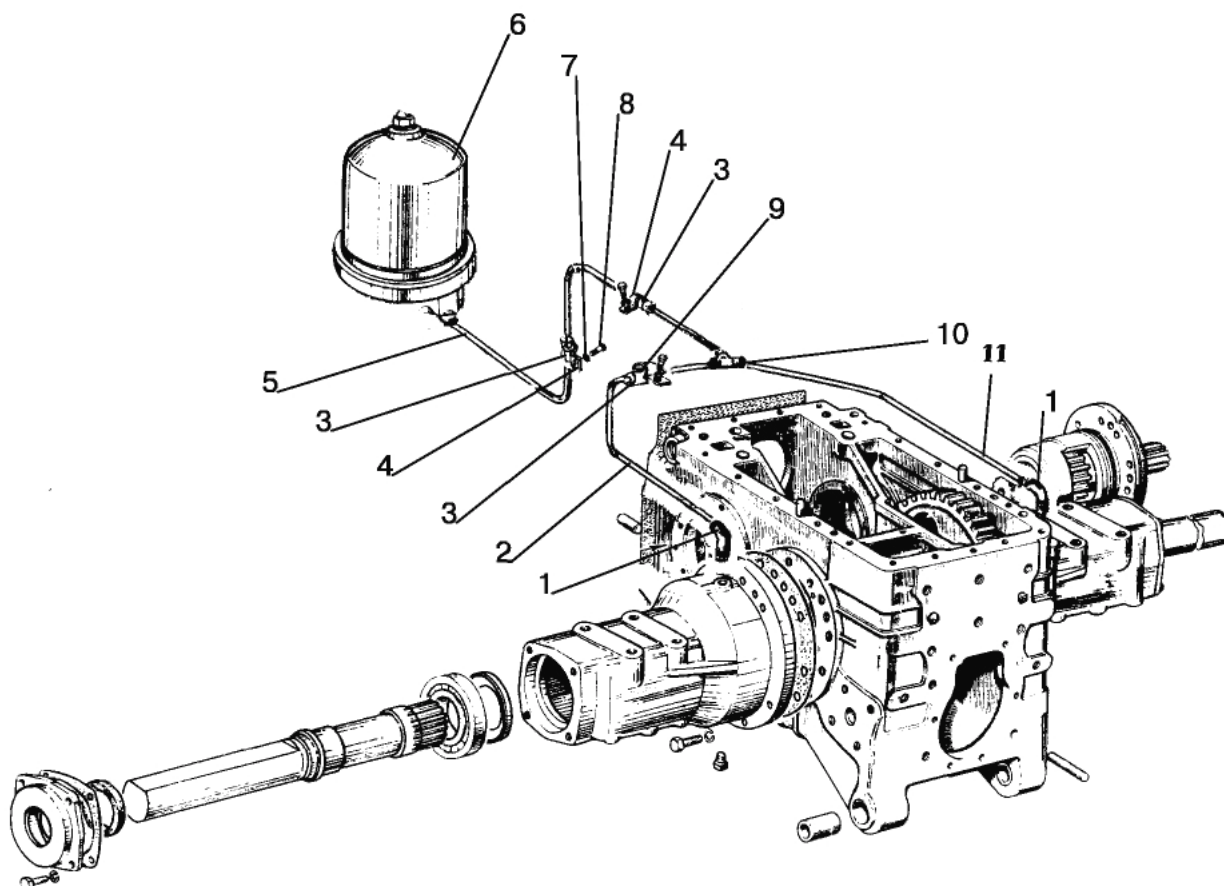


Fig. 24.2. Final drive (lubrication)

**Group 24. Rear axle**  
**Subgroup 2401. Final drive (lubrication)**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name           |
|-------------|--------|------------------------------|------|----------------|
| <b>24.2</b> | 1      | 86-1802088                   | 2    | Elbow          |
|             | 2      | 1522-2407330                 | 1    | Oil pipeline   |
|             | 3      | 1522-2407317                 | 3    | Pipe           |
|             | 4      | 70-4802046                   | 2    | Clamp          |
|             | 5      | 1522-2407310                 | 1    | Oil pipeline   |
|             | 6      | 80-1737110                   | 1    | Filter         |
|             | 7      | ШП 10                        | 1    | Washer         |
|             | 8      | M10x20                       | 1    | Bolt           |
|             | 9      | 70-4802043                   | 1    | Clinch rivet   |
|             | 10     | 1221-2407288-02              | 1    | Three-way pipe |
|             | 11     | 1522-2407320                 | 1    | Oil pipeline   |

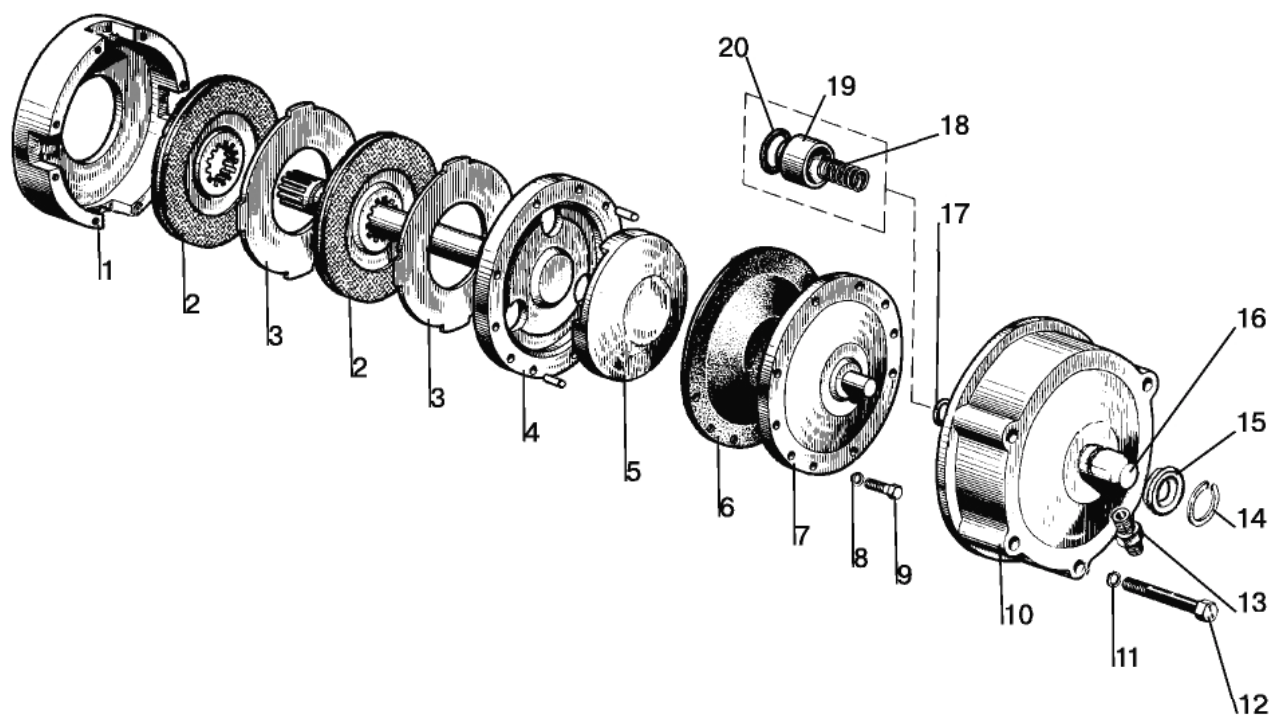


Fig. 24.3. Differential locking mechanism

**Group 24. Rear axle**  
**Subgroup 2409. Differential locking mechanism**

| Fig.No      | Pos.No | Assembly unit or part number      | Q-ty | Name                |
|-------------|--------|-----------------------------------|------|---------------------|
| <b>24.3</b> |        | 70-2409010-B *<br>70-2409010-B-01 | 1    | Lockup clutch (1-9) |
|             |        | 82P-2409050                       | 1    | Adapter (10, 13-20) |
|             | 1      | 70-2409015-A                      | 1    | Clutch housing      |
|             | 2      | 70-3502040-01 or<br>70-3502040-04 | 2    | Brake disk          |
|             | 3      | 70-2409028                        | 2    | Release disk        |
|             | 4      | 70-2409020 *<br>70-2409020-01     | 1    | Lock shaft          |
|             | 5      | 70-2409018                        | 1    | Pressure disk       |
|             | 6      | 70-2409021                        | 1    | Diaphragm           |
|             | 7      | 70-2409030-B                      | 1    | Diaphragm cover     |
|             | 8      | ШП 8                              | 8    | Washer              |
|             | 9      | M8x40                             | 8    | Bolt                |
|             | 10     | 70-2409035-A6                     | 1    | Housing             |
|             | 11     | ШП 12                             | 5    | Washer              |
|             | 12     | M12x200*<br>1522-2409034          | 5    | Bolt                |
|             | 13     | 70-2409037                        | 1    | Union body          |
|             | 14     | C40                               | 1    | Ring                |
|             | 15     | 82P-2409036A                      | 1    | Seal                |
|             | 16     | 70-2409026-B                      | 1    | Adapter             |
|             | 17     | 020-025-30-1-4                    | 1    | O-ring              |
|             | 18     | 54-06-448-A                       | 1    | Spring              |
|             | 19     | 70-2409027-A                      | 1    | Bushing             |
|             | 20     | 70-2409033-B                      | 1    | Ring                |

\* If double-disk brakes are installed.

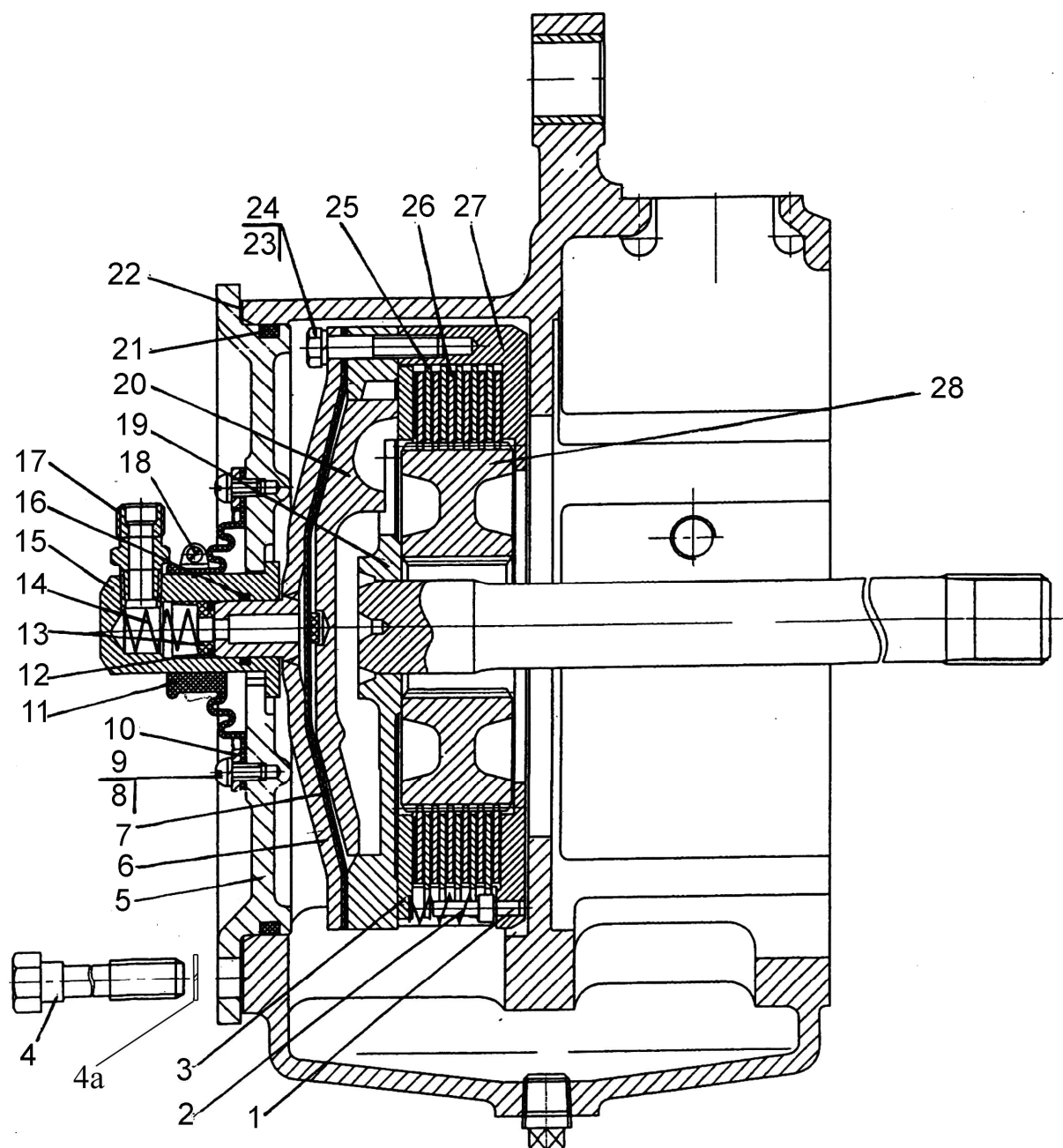


Fig. 24.4. Wet-type differential locking mechanism

**Group 24. Rear axle**  
**Subgroup 2409. Wet-type differential locking mechanism**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                       |
|-------------|--------|------------------------------|------|--------------------------------------------|
| <b>24.4</b> |        | 80M-2409010                  | 1    | Lockup coupling (1-3, 6, 7, 19, 20, 23-28) |
|             |        | 1221M-2409050                | 1    | Adapter (5,8-18,21)                        |
|             | 1      | 80M-2409002                  | 4    | Pin                                        |
|             | 2      | 50-1702148-A                 | 4    | Spring                                     |
|             | 3      | 80M-2409028                  | 1    | Release disk (S=4,7 mm)                    |
|             |        | 80M-2409028-01               | *    | Release disk (S=4,4 mm)                    |
|             |        | 80M-2409028-02               | *    | Release disk (S=4,1 mm)                    |
|             |        | 80M-2409028-03               | *    | Release disk (S=3,8 mm)                    |
|             |        | 80M-2409028-04               | *    | Release disk (S=3,5 mm)                    |
|             |        | 80M-2409028-05               | *    | Release disk (S=3,2 mm)                    |
|             |        | 80M-2409028-06               | *    | Release disk (S=3,0 mm)                    |
|             | 4      | 1221M-3502039                | 5    | Bolt                                       |
|             | 4a     | ШП 14                        | 5    | Washer                                     |
|             | 5      | 1221M-2409034                | 1    | Cover                                      |
|             | 6      | 70-2409030-B                 | 1    | Diaphragm cover                            |
|             | 7      | 70-2409021                   | 1    | Diaphragm                                  |
|             | 8      | B.M6x10                      | 8    | Screw                                      |
|             | 9      | ШП 6                         | 8    | Washer                                     |
|             | 10     | 80M-2409037                  | 1    | Ring                                       |
|             | 11     | 80M-2409036                  | 1    | Seal                                       |
|             | 12     | 70-2409033-B                 | 1    | Ring                                       |
|             | 13     | 70-2409027-A                 | 1    | Bushing                                    |
|             | 14     | 54-06-448-A                  | 1    | Spring                                     |
|             | 15     | 70-2409026-B                 | 1    | Adapter                                    |
|             | 16     | 020-025-30-1-4               | 1    | Ring                                       |
|             | 17     | 70-2409037                   | 1    | Union body                                 |
|             | 18     | 32-50/9C6W                   | 1    | Clamp «NORMA»                              |
|             | 19     | 70-2409020-02                | 1    | Lock shaft                                 |
|             | 20     | 80M-2409018                  | 1    | Pressure disk                              |
|             | 21     | 205-215-58-2-2               | 1    | Ring                                       |
|             | 22     | 1221M-2409051                | 1    | Gasket                                     |
|             | 23     | M8x40                        | 8    | Bolt                                       |
|             | 24     | ШП 8                         | 8    | Washer                                     |
|             | 25     | 80M-2409016                  | 5    | Intermediate disk                          |
|             | 26     | 2522-1802035-A               | 6    | Drive disk                                 |
|             | 27     | 80M-2409015                  | 1    | Clutch housing                             |
|             | 28     | 80M-2409001                  | 1    | Hub                                        |

\* Selected during the installation for required gap.



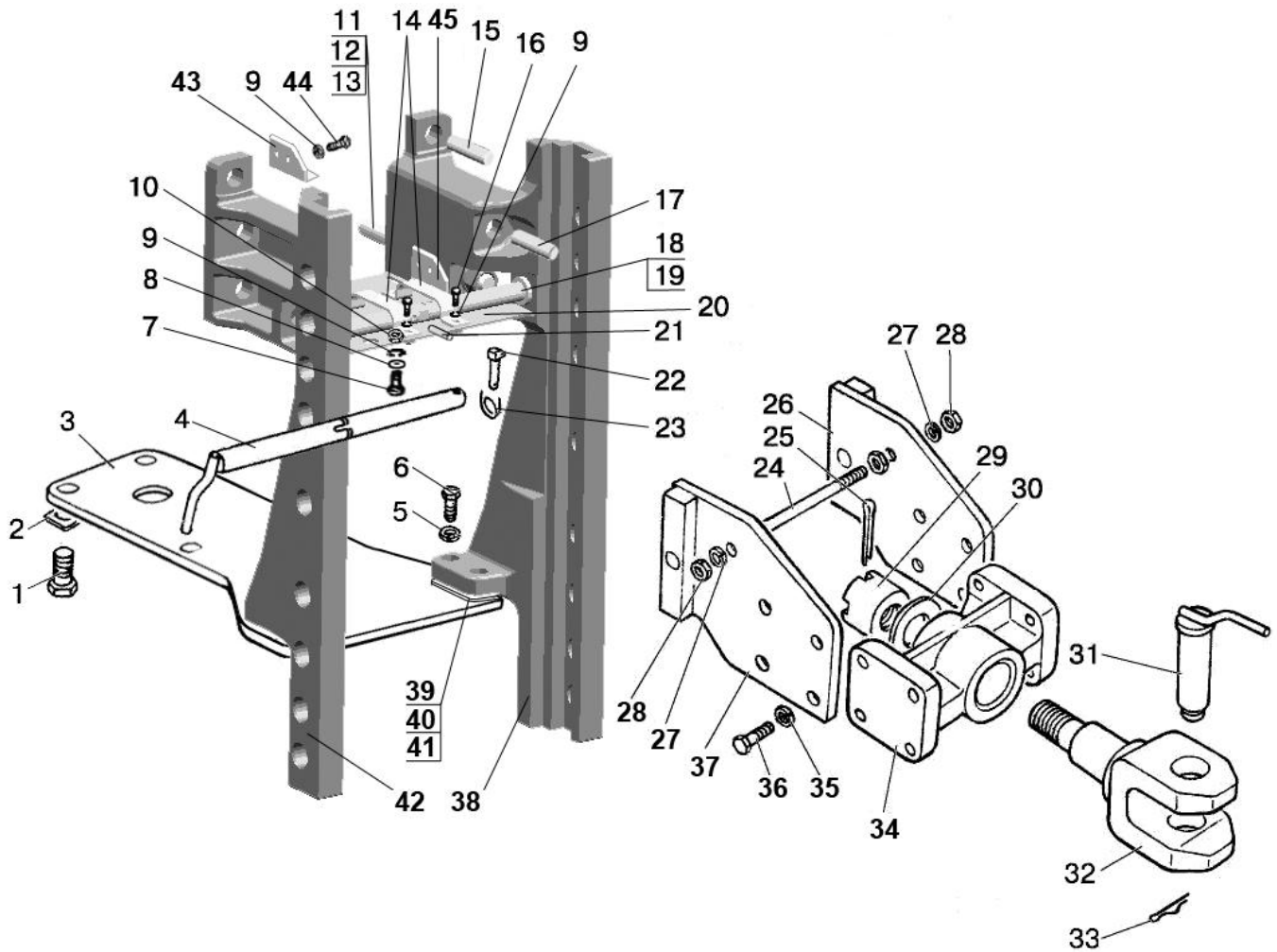


Fig. 27.1. Drawbar hitch

**Group 27. Drawbar hitch**  
**Subgroup 2707. Drawbar hitch**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty           | Name            |
|-------------|--------|------------------------------|----------------|-----------------|
| <b>27.1</b> |        | 1322-2707210                 | 1              | Drawbar hitch   |
|             | 1      | 1321-2707014                 | 4              | Bolt            |
|             | 2      | 1222-2707137                 | 2              | Plate           |
|             | 3      | 1321-2707011-Б               | 1              | Plate           |
|             | 4      | 1321-2707030                 | 1              | Pin             |
|             | 5      | ШП 16                        | 4              | Washer          |
|             | 6      | 1220-4605506                 | 4              | Bolt            |
|             | 7      | M6x18                        | 1              | Bolt            |
|             | 8      | ШЧ 6                         | 1              | Washer          |
|             | 9      | ШП 6                         | 9              | Washer          |
|             | 10     | M6                           | 1              | Nut             |
|             | 11     | 921-2707068-02               | 2              | Stud            |
|             | 12     | M20                          | 6              | Nut             |
|             | 13     | ШП 20                        | 6              | Washer          |
|             | 14     | 1321-2707083-Б               | 2              | Joke            |
|             | 15     | 921-2707068                  | 2              | Stud            |
|             | 16     | M6x12                        | 4              | Bolt            |
|             | 17     | 921-2707068-03               | 2              | Stud            |
|             | 18     | 1322-2707274                 | 1              | Stabilizer      |
|             | 19     | 1322-2707211                 | 1              | Bushing         |
|             | 20     | 1322-2707280                 | 1              | Shield assembly |
|             | 21     | A.6x30                       | 1              | Pin             |
|             | 22     | A61.05.005                   | 1              | Chock           |
|             | 23     | A61.05.004                   | 1              | Ring            |
|             | 24     | 1522-2707244                 | 1              | Stabilizer      |
|             | 25     | 6,3x63                       | 1              | Forelock        |
|             | 26     | 1321-2707070-Б-01            | 1              | Plate           |
|             | 27     | ШП 16                        | 2              | Washer          |
|             | 28     | M16                          | 4              | Nut             |
|             | 29     | 1522-2707243                 | 1              | Nut             |
|             | 30     | 1522-2707242                 | 1              | Washer          |
|             | 31     | 1522-2707079-A               | 1              | Kingpin         |
|             | 32     | 921-2707055                  | 1              | Yoke            |
|             | 33     | A61.07.001-A                 | 1              | Forelock        |
|             | 34     | 1321-2707051-Б               | 1              | Bracket         |
|             | 35     | ШП 20                        | 8              | Washer          |
|             | 36     | 680-2707024                  | 8              | Bolt            |
|             | 37     | 1321-2707070-Б               | 1              | Plate           |
|             | 38     | 1322-2707261                 | 1              | Side member     |
|             | 39     | 900-2707135                  | 2<br>(maximum) | Plate           |
|             | 40     | 900-2707135-01               | 2<br>(maximum) | Plate           |
|             | 41     | 900-2707135-02               | 2<br>(maximum) | Plate           |
|             | 42     | 1322-2707261-01              | 1              | Side member     |
|             | 43     | 1322-2707262-01              | 1              | Bracket         |
|             | 44     | M6x16                        | 4              | Bolt            |
|             | 45     | 1322-2707262                 | 1              | Bracket         |

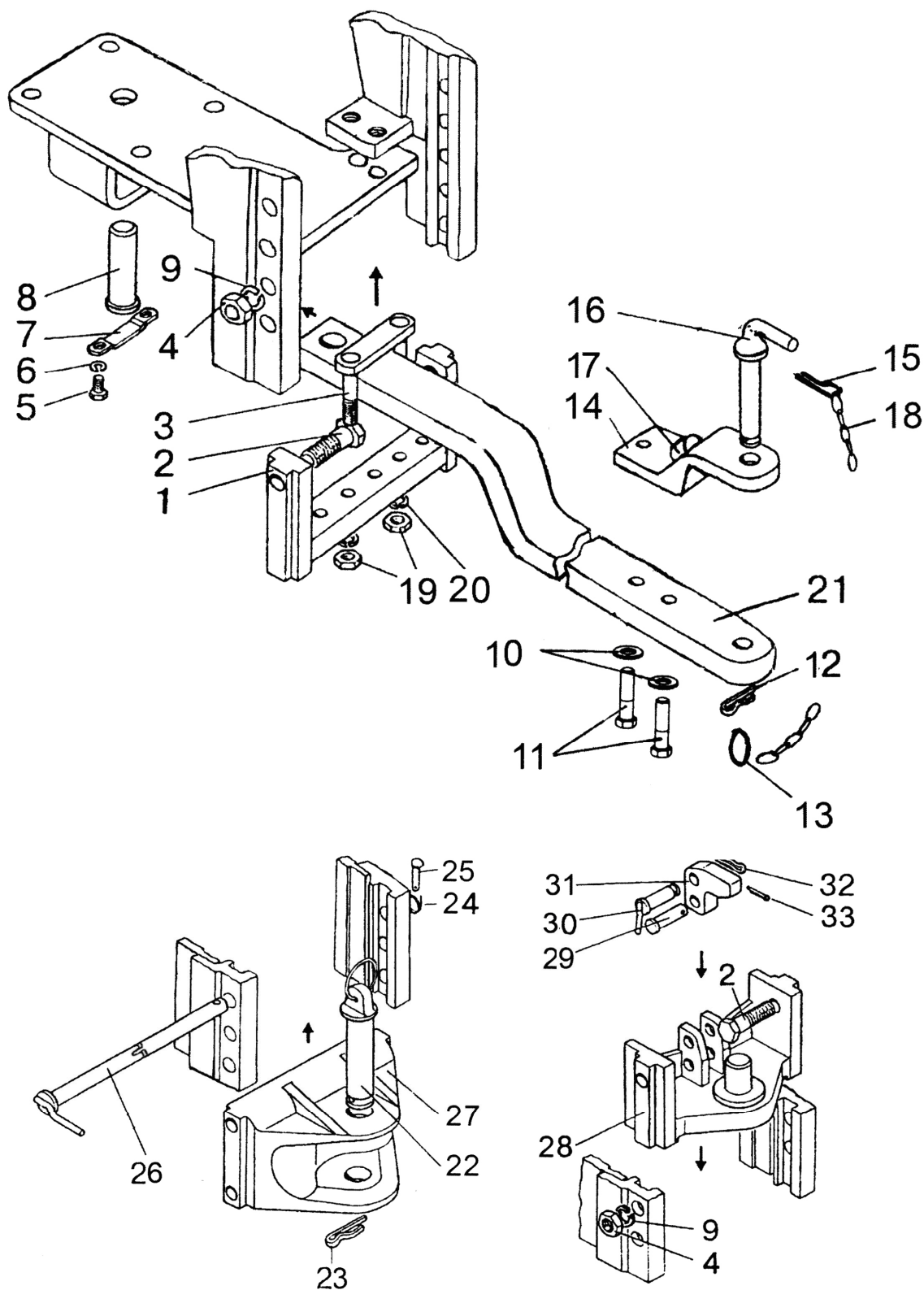


Fig. 27.2. Drawbar hitch (configuration variants)

**Subgroup 2707. Drawbar hitch (configuration variants)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name               |
|--------|--------|------------------------------|------|--------------------|
| 27.2   |        | 1321-2707150-B1              | 1    | Rod (11-19, 25)    |
|        |        | 1322-2707160                 | 1    | Python (40-44, 46) |
|        | 1      | 1322-2707130-B               | 1    | Cross bar          |
|        | 2      | 1322-2707133                 | 4    | Bolt               |
|        | 3      | 1322-2707120-B1              | 1    | Joke               |
|        | 4      | M20                          | 4    | Nut                |
|        | 5      | M10                          | 2    | Bolt               |
|        | 6      | ШП 10                        | 2    | Washer             |
|        | 7      | 1522-2707126                 | 1    | Plate              |
|        | 8      | 1522-2707127                 | 1    | Axis               |
|        | 9      | ШП 20                        | 4    | Washer             |
|        | 10     | 1523-2707146                 | 2    | Washer             |
|        | 11     | 1523-2707149-B               | 2    | Bolt               |
|        | 12     | A61.07.001-A                 | 1    | Forelock           |
|        | 13     | H50-4202146                  | 1    | Ring               |
|        | 14     | 1523-2707143                 | 1    | Lining             |
|        | 15     | 3,2x25                       | 1    | Forelock           |
|        | 16     | 1522-2707079-A               | 1    | Kingpin            |
|        | 17     | 1523-2707142                 | 1    | Joke               |
|        | 18     | 70-4235035                   | 2    | Chain              |
|        | 19     | M16                          | 2    | Nut                |
|        | 20     | ШП 16                        | 2    | Washer             |
|        | 21     | 1321-2707144-B1              | 1    | Rod                |
|        | 22     | 1321-2707140-B               | 1    | Kingpin            |
|        | 23     | 1321-27070342                | 1    | Forelock           |
|        | 24     | A61.05.004                   | 1    | Ring               |
|        | 25     | A61.05.005                   | 1    | Chock              |
|        | 26     | 1321-2707030                 | 1    | Pin                |
|        | 27     | 1321-2707113-A               | 1    | Yoke               |
|        | 28     | 1322-2707165                 | 1    | Plate with python  |
|        | 29     | 1322-2707162-01              | 1    | Pin                |
|        | 30     | 1322-2707180                 | 1    | Pin                |
|        | 31     | 1322-2707161                 | 1    | Thrust             |
|        | 32     | A61.07.001                   | 1    | Forelock           |
|        | 33     | 4x36                         | 1    | Forelock           |

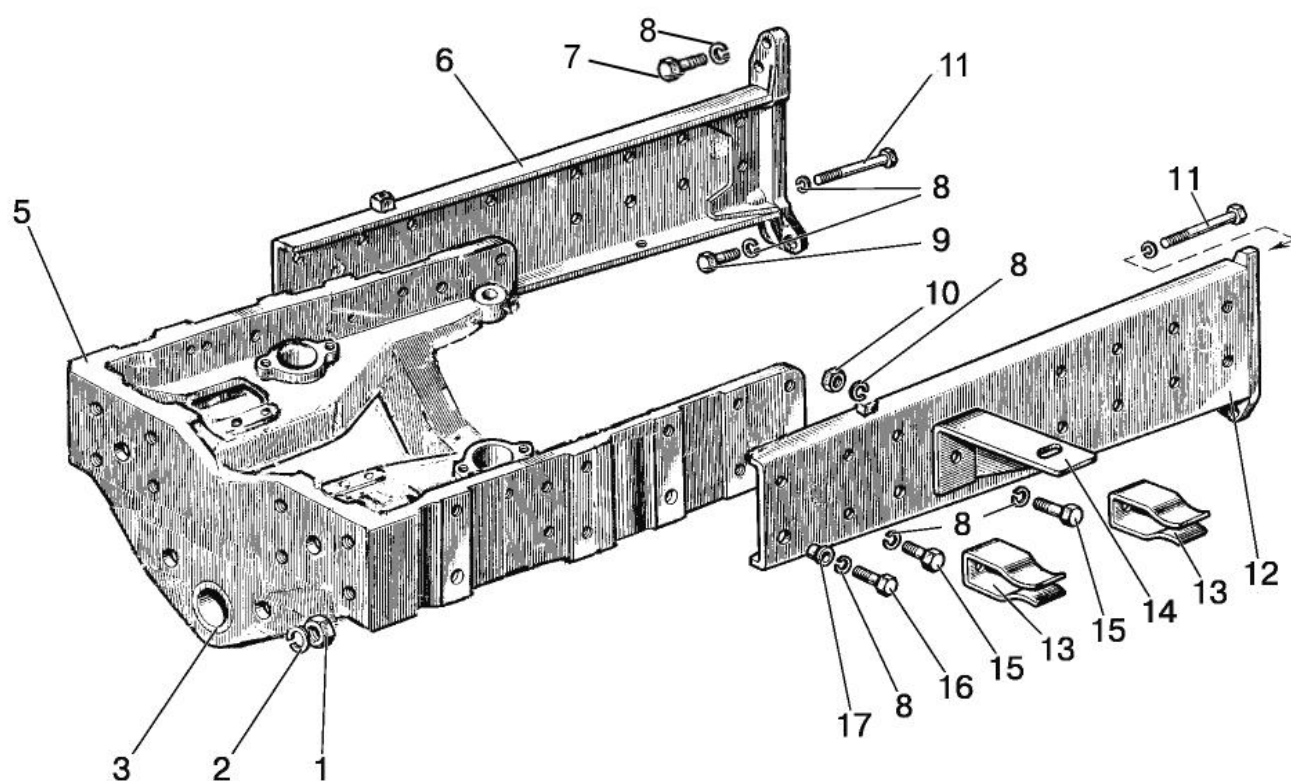


Fig. 28.1 Semi-frame assembly

**Group 28. Frame**  
**Subgroup 2801. Semi-frame assembly**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name              |
|-------------|--------|------------------------------|------|-------------------|
| <b>28.1</b> |        | 1520-2801015                 | 1    | Front beam (3, 5) |
|             | 1      | M20                          | 2    | Nut               |
|             | 2      | ШП 20                        | 2    | Washer            |
|             | 3      | 40-3001022                   | 2    | Bushing           |
|             | 5      | 1520-2801016                 | 1    | Front beam        |
|             | 6      | 1523-2801030                 | 1    | Right spar        |
|             | 7      | M16x70                       | 2    | Bolt              |
|             | 8      | OT 16                        | 24   | Washer            |
|             | 9      | M16x60                       | 4    | Bolt              |
|             | 10     | M16                          | 2    | Nut               |
|             | 11     | 70-2800016                   | 4    | Bolt              |
|             | 12     | 1523-2801020                 | 1    | Left spar         |
|             | 13     | 50-3913214                   | 2    | Clamp             |
|             | 14     | 80-3919106                   | 2    | Bracket           |
|             | 15     | M16x32                       | 10   | Bolt              |
|             | 16     | M16x50                       | 4    | Bolt              |
|             | 17     | 50-2800011                   | 4    | Bushing           |

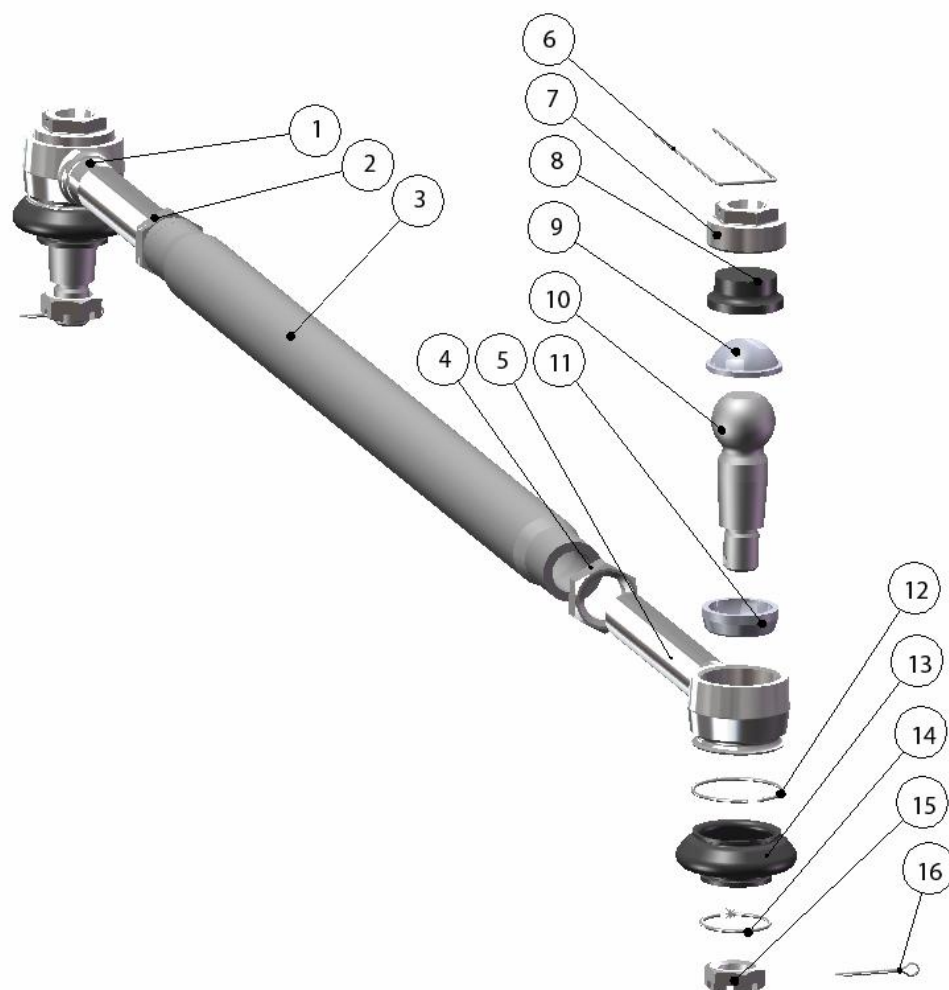


Fig. 30.1. Steering links

**Subgroup 3003. Steering links**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                              |
|-------------|--------|------------------------------|------|-----------------------------------|
| <b>30.1</b> |        | 822-3003010-01               | 1    | Steering link (1-16)              |
|             | 1      | 822-3003020                  | 1    | Right hinge (822-3003022, 6-16)   |
|             |        | 822-3003020-01               | 1    | Left hinge (822-3003022-01, 6-16) |
|             | 2      | 1220-3003013-01              | 1    | Lock nut                          |
|             | 3      | 1220-3003011                 | 1    | Pipe                              |
|             | 4      | 1220-303013                  | 1    | Lock nut                          |
|             | 5      | 822-3003022                  | 1    | Right hinge housing               |
|             |        | 822-3003022-01               | 1    | Left hinge housing                |
|             | 6      | 2,0-O-C                      | 2    | Wire L=270 mm                     |
|             | 7      | 50-3003018-B                 | 2    | Plug                              |
|             | 8      | 1220-3003028                 | 2    | Insert                            |
|             | 9      | 1220-3003027                 | 2    | Insert                            |
|             | 10     | 1220-3003021                 | 2    | Ball pin                          |
|             | 11     | 1220-3003023                 | 2    | Insert                            |
|             | 12     | 1220-3003024                 | 2    | Ring                              |
|             | 13     | 1220-3003025-A               | 2    | Case                              |
|             | 14     | 1220-3003029                 | 2    | Ring                              |
|             | 15     | M20x1,5                      | 2    | Nut                               |
|             | 16     | 4x36                         | 2    | Forelock                          |



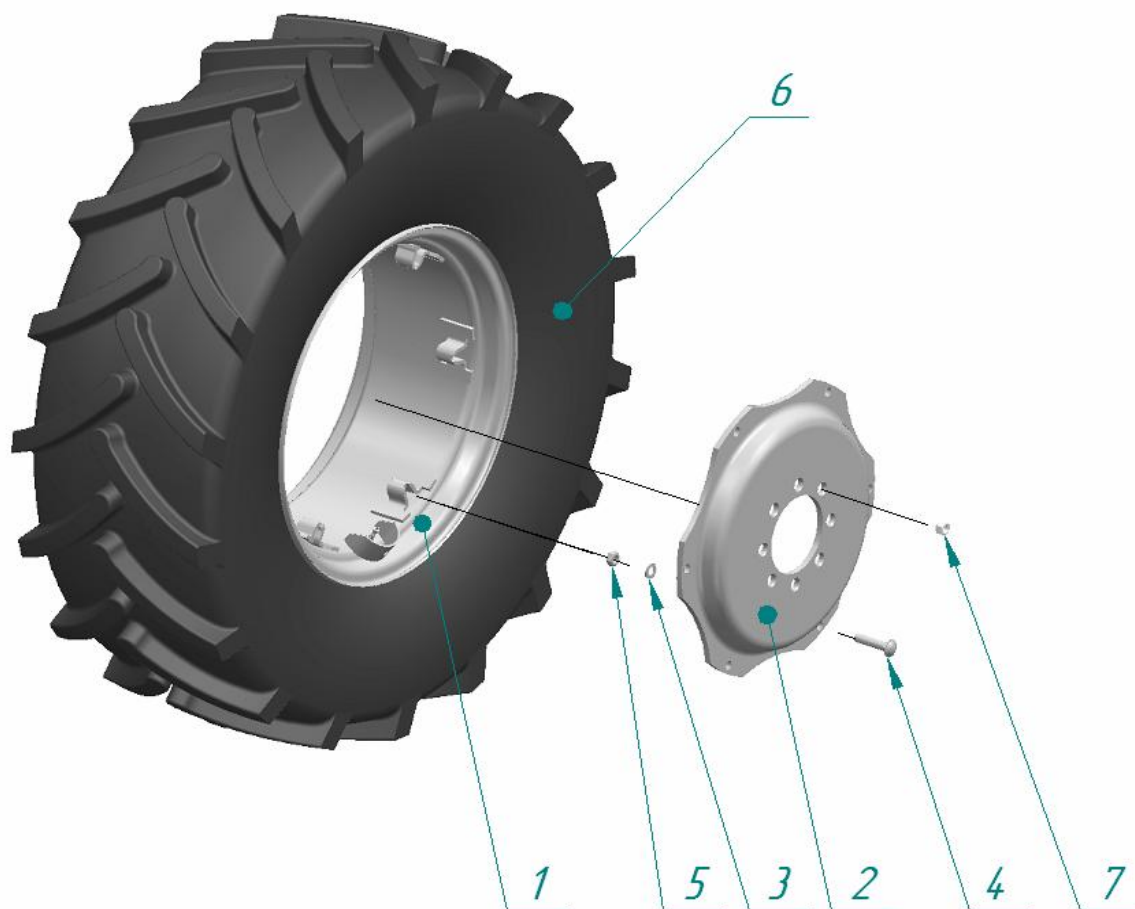


Fig. 31.1 Front driving wheels

**Group 31. Wheels and hubs**  
**Subgroup 3101. Front driving wheels**

| Fig.No      | Pos.No | Assembly unit or part number           | Q-ty | Name                                                                            |
|-------------|--------|----------------------------------------|------|---------------------------------------------------------------------------------|
| <b>31.1</b> |        | 1221-3101010-01<br>1221-3101010        | 2    | Wheel (tyre 420/70R24 assembly) (1-6) or<br>Wheel (tyre 14.9R24 assembly) (1-6) |
|             |        | W12-24-3101020-01 or<br>880.3101012-01 | 2    | Wheel W12x24 (1, 2, 3, 4, 5)                                                    |
|             | 1      | W12-24-3101035                         | 2    | Rim W12x24 with brackets                                                        |
|             | 2      | W12-24-3101017                         | 2    | Disk                                                                            |
|             | 3      | 52-2301065                             | 12   | Washer                                                                          |
|             | 4      | 1221-3101011                           | 12   | Bolt                                                                            |
|             | 5      | 1221-3101013 or<br>M16x1.5-6H.10.019   | 12   | Nut<br>Nut GOST 5915-70                                                         |
|             | 6      |                                        | 2    | Tyre 420/70R24 or 14.9R24                                                       |
|             | 7      | 40-3103017-01                          | 16   | Nut                                                                             |

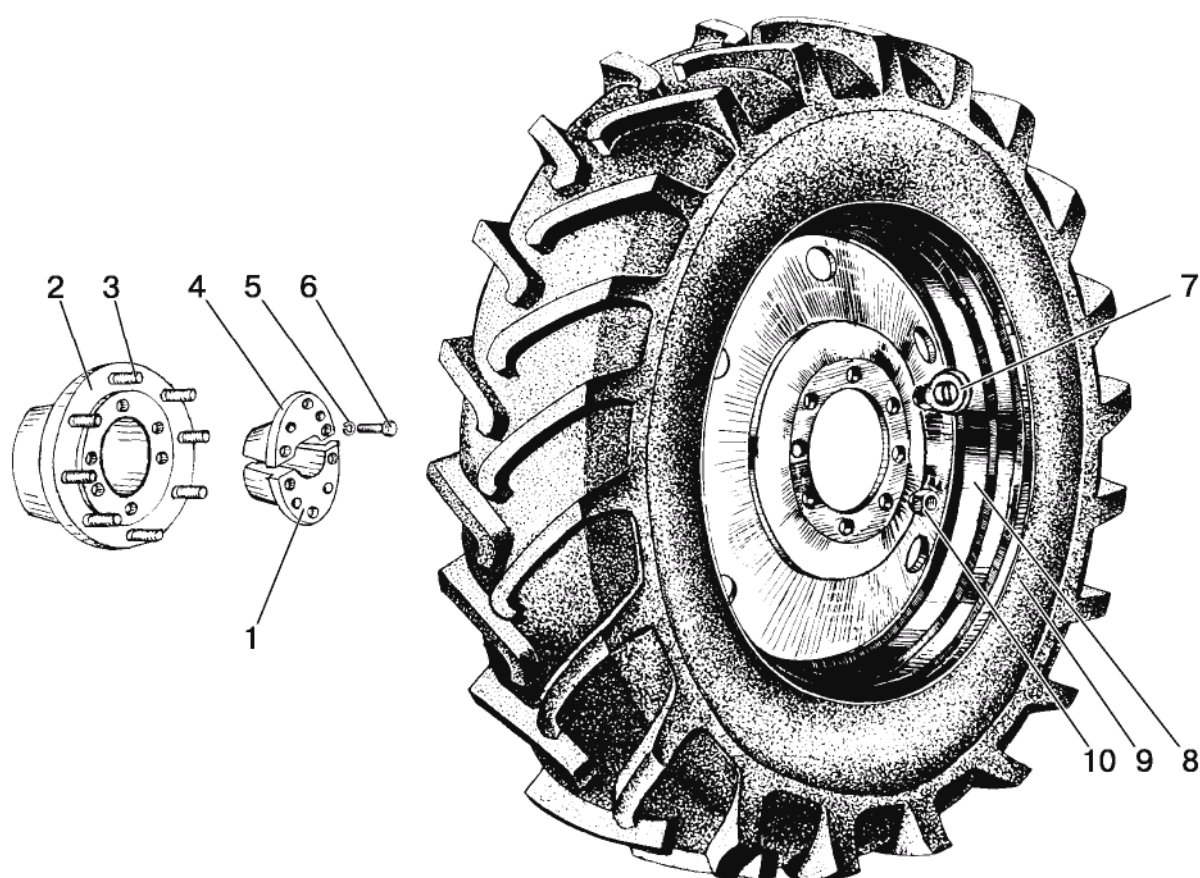


Fig. 31.2 Rear driving wheels. Rear wheel hubs

**Subgroup 3104.Rear wheel hubs  
Subgroup 3107. Rear driving wheels**

| Fig.No      | Pos.No | Assembly unit or part number       | Q-ty | Name                                 |
|-------------|--------|------------------------------------|------|--------------------------------------|
| <b>31.2</b> |        | 1220-3104010                       | 2    | Hub (1-7, 10)                        |
|             | 1      | 1220-3104012                       | 1    | Insert                               |
|             | 2      | 1220-3104011                       | 1    | Hub                                  |
|             | 3      | 40-3104021                         | 8    | Bolt                                 |
|             | 4      | 1220-3104012-01                    | 1    | Insert                               |
|             | 5      | ШП 20                              | 6    | Washer                               |
|             | 6      | 70-4605036                         | 6    | Bolt                                 |
|             | 7      | 70-3104019                         | 2    | Special nut                          |
|             |        | 1221-3107010*                      | 2    | Wheel 18.4R38 (tyre assembly) (8, 9) |
|             | 8      | DW15Lx38-3107020 or 8746.3107012П3 | 2    | Wheel DW15Lx38                       |
|             | 9      |                                    | 2    | Tyre 18.4R38                         |
|             |        | 72-3107010**                       | 2    | Wheel 16.9R38 (tyre assembly) (8, 9) |
|             | 8      | DW15Lx38-3107020 or 8746.3107012П3 | 2    | Wheel DW15Lx38                       |
|             | 9      |                                    | 2    | Tyre 16.9R38                         |
|             | 10     | 36-3104019                         | 7    | Nut                                  |

\* For tractors with FDA 1222-2300020-05

\*\* For tractors with FDA 1222-2300020

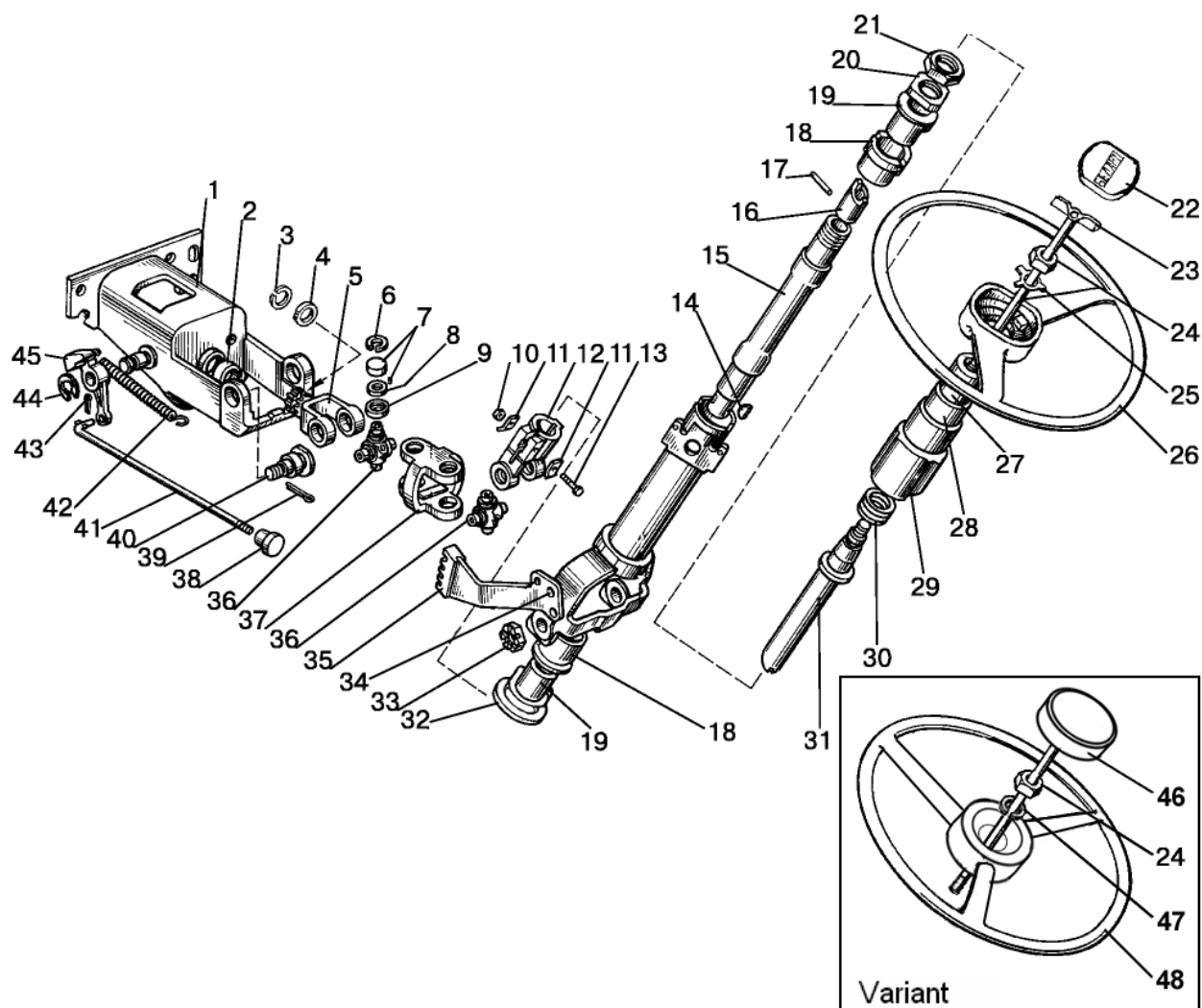


Fig. 34.1. Steering column

**Subgroup 3401. Steering column**

| Fig.No      | Pos.No | Assembly unit or part number       | Q-ty | Name                                          |
|-------------|--------|------------------------------------|------|-----------------------------------------------|
| <b>34.1</b> |        | 85-3401010                         | 1    | Steering column (1-21, 32-37, 39, 40, 42- 45) |
|             |        | 70-3401050-B                       | 1    | Shaft (15-17)                                 |
|             |        | 85-3401150                         | 1    | Cardan (5-9, 12, 36, 37)                      |
|             | 1      | 85-3401120                         | 1    | Bracket                                       |
|             | 2      | 85-3401016                         | 1    | Bushing                                       |
|             | 3      | C20                                | 1    | Ring                                          |
|             | 4      | 80-3401019                         | 1    | Washer                                        |
|             | 5      | 85-3401156-B                       | 1    | Yoke                                          |
|             | 6      | C19                                | 8    | Ring                                          |
|             | 7      | 904700YC17                         | 8    | Bearing                                       |
|             | 8      | 50-3401064                         | 8    | Oil-seal                                      |
|             | 9      | 50-3401063                         | 8    | Cage                                          |
|             | 10     | M10                                | 1    | Nut                                           |
|             | 11     | 80-3401013                         | 2    | Washer                                        |
|             | 12     | 50-3401061-A                       | 1    | Yoke                                          |
|             | 13     | M10x45                             | 1    | Bolt                                          |
|             | 14     | 5x10                               | 1    | Semi-circular key                             |
|             | 15     | 70-3401055                         | 1    | Intermediate shaft                            |
|             | 16     | 70-3401054-B                       | 1    | Shaft end extension                           |
|             | 17     | ШПK8x36                            | 1    | Pin                                           |
|             | 18     | 70-3401077-B                       | 2    | Shock absorber                                |
|             | 19     | 70-3401076                         | 2    | Bushing                                       |
|             | 20     | 70-3401078                         | 1    | Nut                                           |
|             | 21     | 70-3401079                         | 1    | Lock nut                                      |
|             | 22     | 80-3401082                         | 1    | Cover                                         |
|             | 23     | 80-3401140                         | 1    | Clamp                                         |
|             | 24     | M16x1,5                            | 1    | Nut                                           |
|             | 25     | 50-3401091                         | 1    | Washer                                        |
|             | 26     | 80-3402015                         | 1    | Steering wheel                                |
|             | 27     | 80-3709025                         | 1    | Bushing                                       |
|             | 28     | 80-3709026 -B                      | 1    | Bushing                                       |
|             | 29     | 80-3709024                         | 1    | Case                                          |
|             | 30     | 50-4608057                         | 1    | Spring                                        |
|             | 31     | 85-3401175                         | 1    | Shaft                                         |
|             | 32     | 600-3401012                        | 1    | Washer                                        |
|             | 33     | 70-3003032                         | 2    | Nut                                           |
|             | 34     | 8x28                               | 2    | Non-threaded fastener                         |
|             | 35     | 600-3401160                        | 1    | Quadrant                                      |
|             | 36     | 50-3401062                         | 2    | Cross bar                                     |
|             | 37     | 85-3401067                         | 1    | Yoke                                          |
|             | 38     | 70-3709012-A                       | 1    | Handle                                        |
|             | 39     | 4x25                               | 2    | Forelock                                      |
|             | 40     | 85-3401011                         | 2    | Screw                                         |
|             | 41     | 85-3401001                         | 1    | Rod                                           |
|             | 42     | 50-1310158-B                       | 1    | Spring                                        |
|             | 43     | 1,6x12                             | 1    | Forelock                                      |
|             | 44     | C18                                | 1    | Ring                                          |
|             | 45     | 85-3401014                         | 1    | Detent                                        |
|             | 46     | 38RPN-02.00.00/B or 822-3401140-A1 | 1    | Clamp                                         |
|             | 47     | ШП 16                              | 1    | Washer                                        |
|             | 48     | 38RPN-01.00.00 or 70-3402015-A     | 1    | Steering wheel                                |

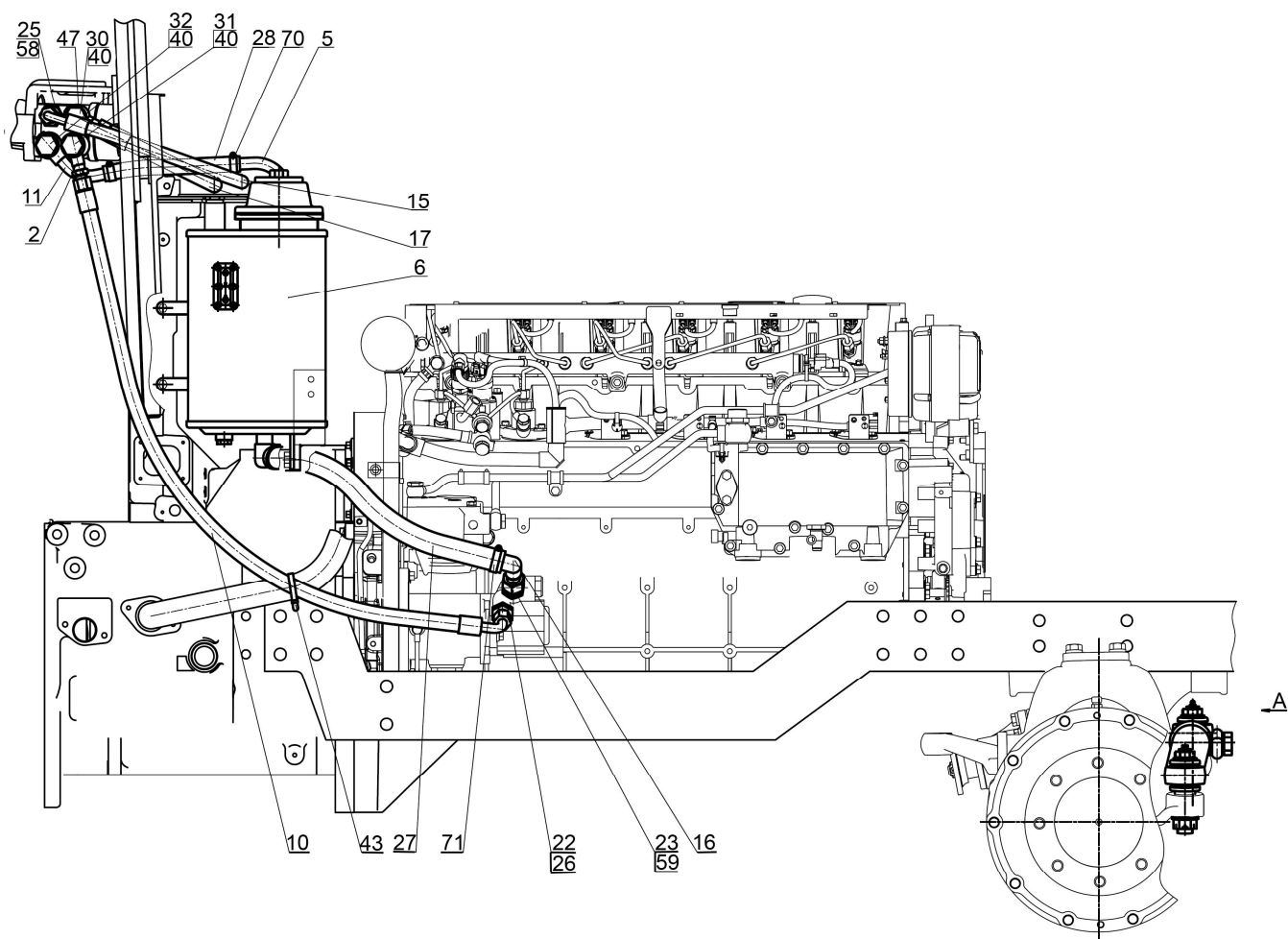
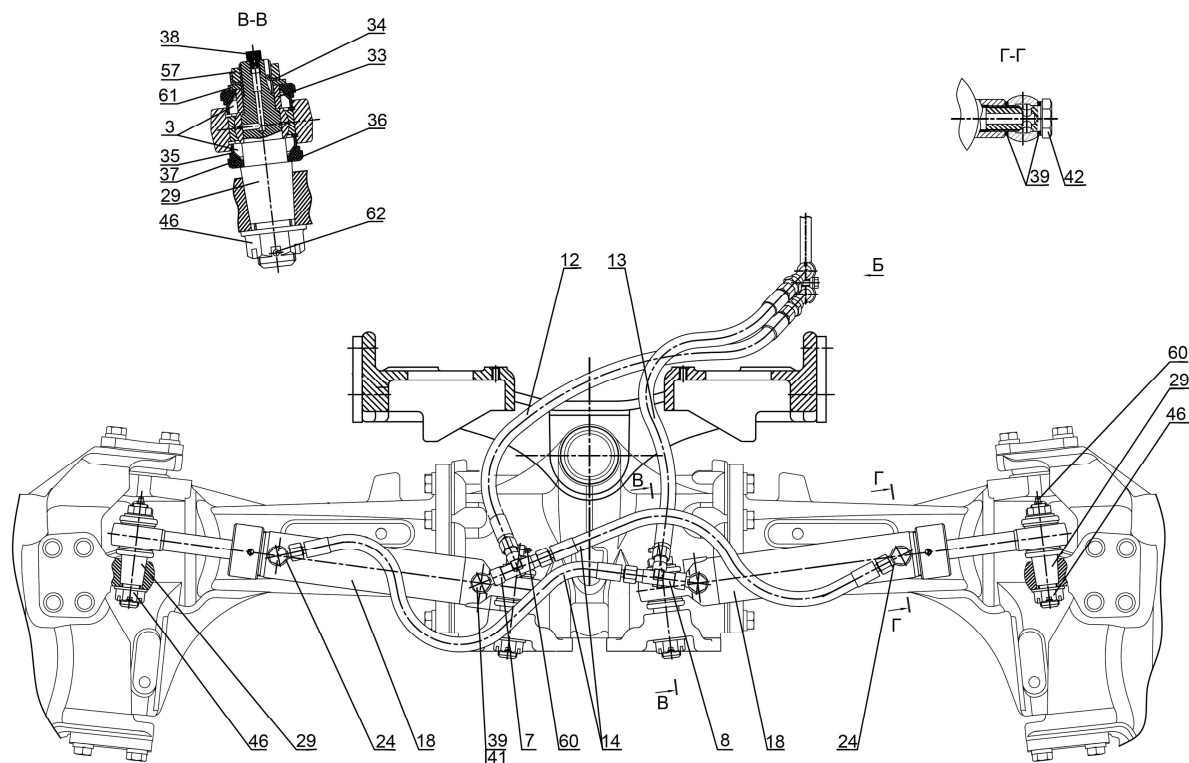


Fig. 34.2 Hydrostatic steering control

A (1)



Б (2)

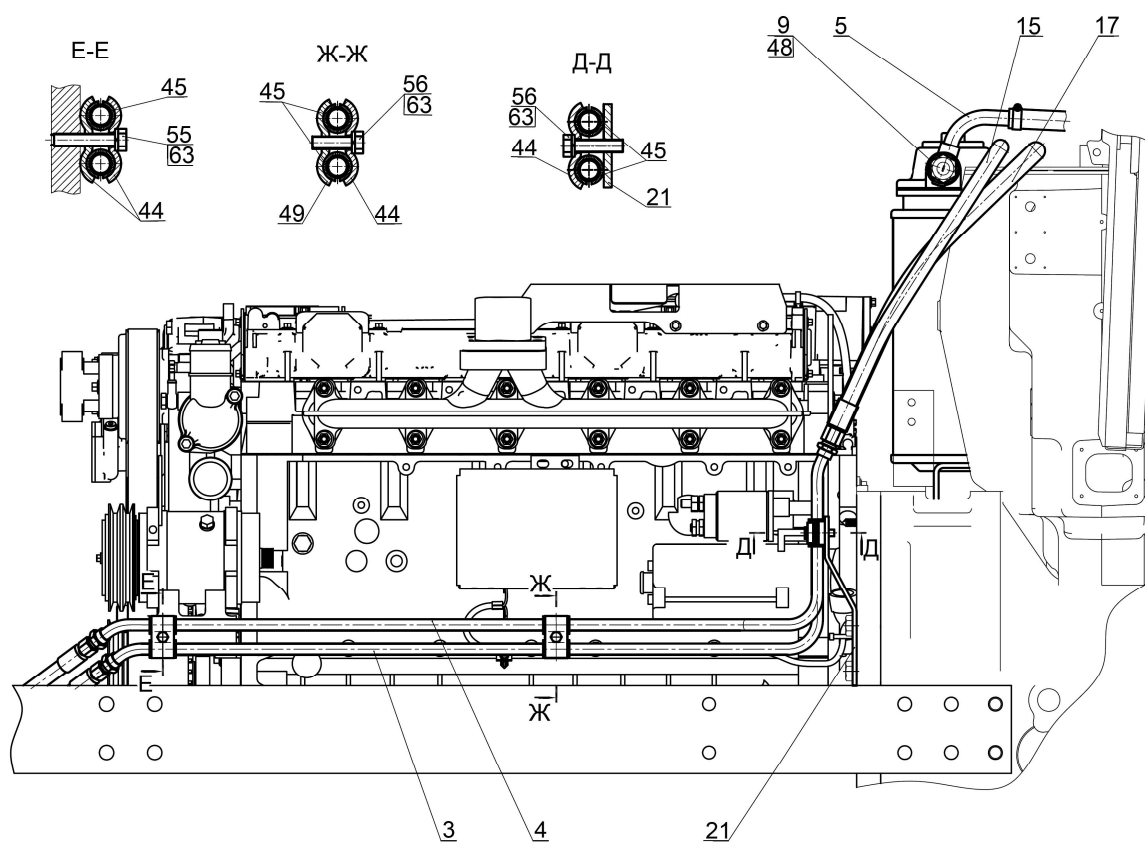


Fig. 34.2a Hydrostatic steering control

**Group 34. Steering control**



**Subgroup 3407. Hydrostatic steering control**

| Fig.No                      | Pos.No | Assembly unit or part number | Q-ty | Name                                            |
|-----------------------------|--------|------------------------------|------|-------------------------------------------------|
| <b>34.2</b><br><b>34.2a</b> |        | 1221ДЦ-3400010               | 1    | Steering control                                |
|                             | 2      | 1221ДЦ-3407020               | 1    | Elbow                                           |
|                             | 3      | 1221ДЦ-3407040               | 1    | Oil pipeline                                    |
|                             | 4      | 1221ДЦ-3407050               | 1    | Oil pipeline                                    |
|                             | 5      | 1221ДЦ-3407060               | 1    | Oil pipeline                                    |
|                             | 6      | 1221ДЦ-3407200               | 1    | Tank                                            |
|                             | 7      | 1221-3407010-Б               | 1    | Three-way pipe                                  |
|                             | 8      | 1221-3407010-Б-01            | 1    | Three-way pipe                                  |
|                             | 9      | 1221-3407140-А-01            | 1    | Valve                                           |
|                             | 10     | 1522В-3407100-03             | 1    | High pressure hose Ø12,5x2 armoured (L=1200 mm) |
|                             | 11     | 923-3407080                  | 1    | Oil pipeline                                    |
|                             | 12     | 952-3407100                  | 1    | High pressure hose Ø8x1 armoured (L=750 mm)     |
|                             | 13     | 952-3407100-02               | 1    | High pressure hose Ø8x1 armoured (L=690 mm)     |
|                             | 14     | 952-3407100-12               | 2    | High pressure hose Ø8x1 armoured (L=485 mm)     |
|                             | 15     | 680-4607140-14               | 1    | High pressure hose Ø10x1 armoured (L=1000 mm)   |
|                             | 16     | 680-4607510                  | 1    | Tube                                            |
|                             | 17     | П100-4607140-05              | 1    | High pressure hose Ø10x1 armoured (L=850 mm)    |
|                             | 18     | Ц50-3405215-А                | 2    | Hydraulic cylinder                              |
|                             | 21     | 1221ДЦ-3407012               | 1    | Bracket                                         |
|                             | 22     | 2022ДЦ-3407023               | 1    | Union body                                      |
|                             | 23     | 1523Д-3407034                | 1    | Union body                                      |
|                             | 24     | 2022-3407202                 | 2    | Adapter                                         |
|                             | 25     | 1522-3407016                 | 1    | Union body                                      |
|                             | 26     | 1321-3407015                 | 1    | Washer                                          |
|                             | 27     | 1321-3407018-01              | 1    | Hose (L=420 mm)                                 |
|                             | 28     | 952-3407014-09               | 1    | Hose (L=350 mm)                                 |
|                             | 29     | 102-3405103                  | 4    | Pin                                             |
|                             | 30     | 85-3407105                   | 1    | Bolt                                            |
|                             | 31     | 85-3407105-01                | 1    | Bolt                                            |
|                             | 32     | 85-3407105-03                | 1    | Bolt                                            |
|                             | 33     | Φ80-3405102-В                | 4    | Bushing                                         |
|                             | 34     | Φ80-3405103                  | 4    | Lock washer                                     |
|                             | 35     | Φ80-3405107                  | 8    | Spherical bushing                               |
|                             | 36     | Φ80-3405108                  | 8    | Seal cup                                        |
|                             | 37     | Φ80-3405109                  | 8    | Hinge seal                                      |
|                             | 38     | Φ80-3405112                  | 2    | Reducing sleeve                                 |
|                             | 39     | Φ80-3407114                  | 8    | Washer                                          |
|                             | 40     | Φ80-3407157                  | 6    | Washer                                          |
|                             | 41     | Φ80-3407201                  | 2    | Bolt                                            |
|                             | 42     | Φ80-3407301                  | 4    | Bolt                                            |
|                             | 43     | 80-3723045-01                | 1    | Collar                                          |
|                             | 44     | 70-3407146                   | 4    | Plate                                           |
|                             | 45     | 70-3506027                   | 6    | Bushing                                         |
|                             | 46     | 70-4605316                   | 4    | Nut                                             |
|                             | 47     | 530-4614029                  | 1    | Elbow                                           |
|                             | 48     | 40-4607033-А-01              | 2    | Washer                                          |
|                             | 49     | 70-3407144                   | 1    | Plate                                           |

**Group 34. Steering control**
**Subgroup 3407. Hydrostatic steering control**

| Fig.No                      | Pos.No | Assembly unit or part number | Q-ty | Name                            |
|-----------------------------|--------|------------------------------|------|---------------------------------|
| <b>34.2</b><br><b>34.2a</b> | 55     | M8-6gx40.88.35.019           | 1    | Bolt GOST 7795-70               |
|                             | 56     | M8-6gx30.88.35.019           | 2    | Bolt GOST 7796-70               |
|                             | 57     | M20x1,5-6H.04.019            | 4    | Nut 15522-70                    |
|                             | 58     | 025-029-25-2-2               | 1    | Ring GOST 18829-73/GOST 9833-73 |
|                             | 59     | 028-032-25-2-2               | 1    | Ring GOST 18829-73/GOST 9833-73 |
|                             | 60     | 1.1.149.xp                   | 4    | Oiler GOST 19853-74             |
|                             | 61     | C 20.01.019                  | 4    | Washer GOST 11371-78            |
|                             | 62     | 4x36.019                     | 4    | Forelock GOST 397-79            |
|                             | 63     | 8T                           | 3    | Washer OST 37.001.115-75        |
|                             | 70     |                              | 2    | Clamp «NORMA»TORRO 20-32/9-C6W  |
|                             | 71     |                              | 2    | Clamp «NORMA»TORRO 25-40/9-C6W  |

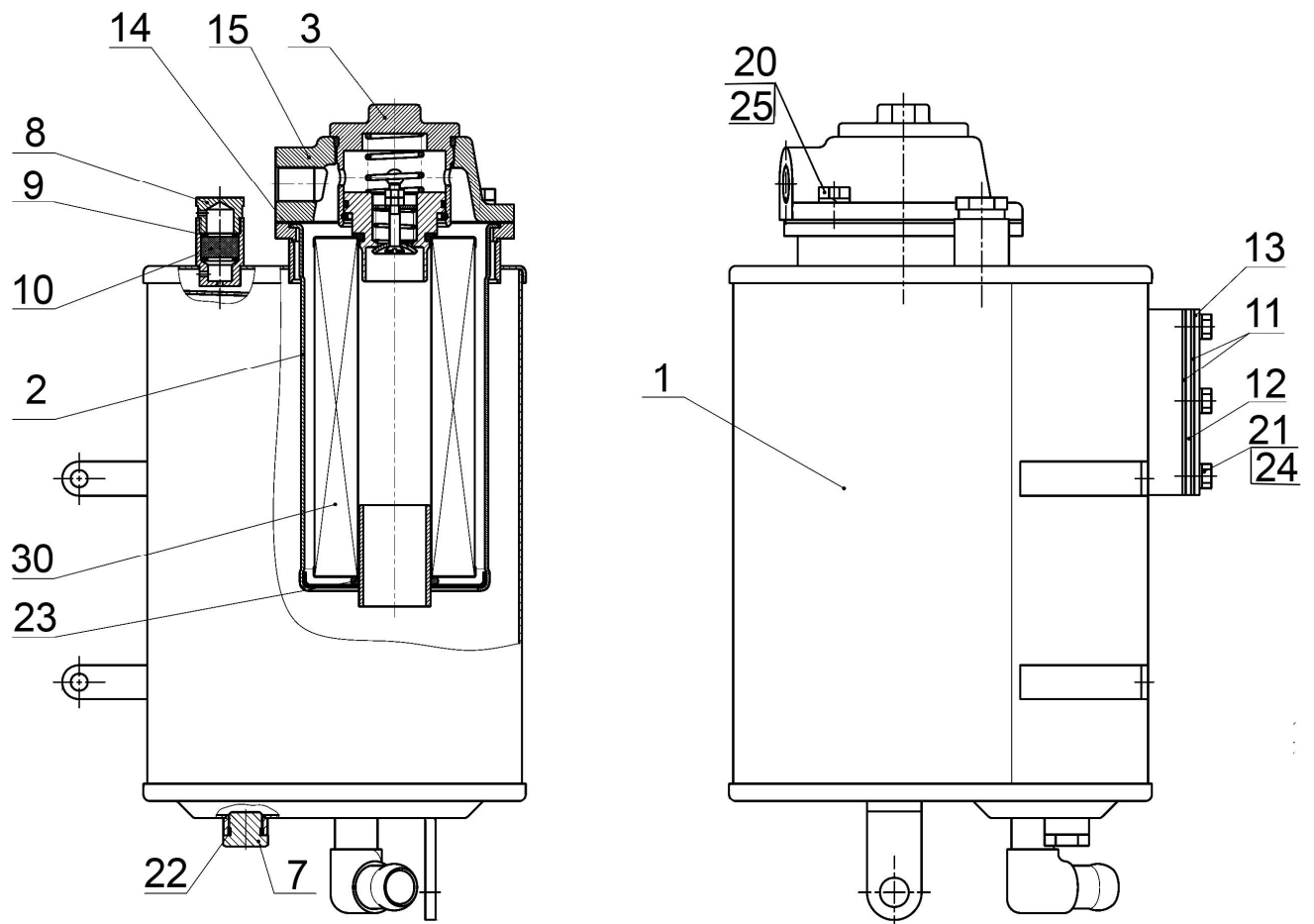


Fig. 34.3 Tank

**Group 34. Steering control**  
**Subgroup 3407. Tank**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                                       |
|-------------|--------|------------------------------|------|------------------------------------------------------------|
| <b>34.3</b> | 1      | 1221ДЦ-3407210               | 1    | Tank                                                       |
|             | 2      | 822-4608020-A                | 1    | Housing                                                    |
|             | 3      | 822-4608030                  | 1    | Plug                                                       |
|             | 7      | 50-4608027-B                 | 1    | Plug                                                       |
|             | 8      | 50-4608059                   | 1    | Breather plug                                              |
|             | 9      | 50-4608062                   | 2    | Breather washer                                            |
|             | 10     | 50-4608063                   | 1    | Filter                                                     |
|             | 11     | 85-4608086-A                 | 2    | Gasket                                                     |
|             | 12     | 85-4608087                   | 1    | Indicator                                                  |
|             | 13     | 85-4608088                   | 1    | Plate                                                      |
|             | 14     | 822-4608112                  | 1    | Gasket                                                     |
|             | 15     | 1522-4608211-01              | 1    | Cover                                                      |
|             | 20     | M8-6gx25.88.35.019           | 4    | Bolt GOST 7796-70                                          |
|             | 21     | M6-6gx16.88.35.019           | 6    | Bolt GOST 7798-70                                          |
|             | 22     | 017-022-30-2-2               | 1    | Ring GOST 18829-73/GOST 9833-73                            |
|             | 23     | 042-050-46-2-2               | 1    | Ring GOST 18829-73/GOST 9833-73                            |
|             | 24     | 6T                           | 6    | Washer OST 37.001.115-75                                   |
|             | 25     | 8T                           | 4    | Washer OST 37.001.115-75                                   |
|             | 30     |                              | 1    | Filtering element ЭФОМ 635-1-06<br>TU RB 05892693.006-2000 |

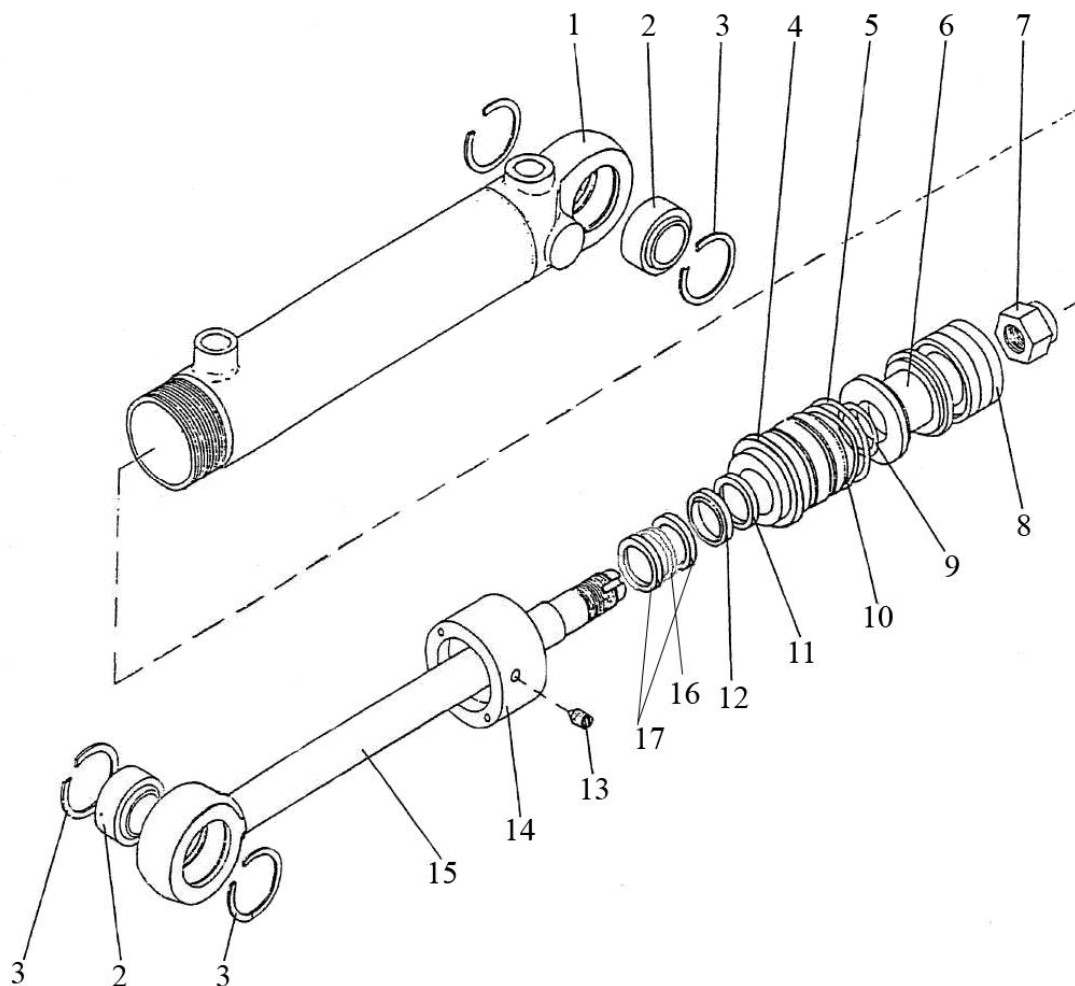


Fig. 34.4 Hydraulic cylinder 50x25-200

**Subgroup 3405. Hydraulic cylinder 50x25-200**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                |
|-------------|--------|------------------------------|------|-------------------------------------|
| <b>34.4</b> |        | LJ50-3405215-A               | 1    | Hydraulic cylinder 50x25-200 (2-16) |
|             | 1      | LJ50-3405220                 | 1    | Cylinder housing                    |
|             | 2      | ШС-25                        | 2    | Bearing                             |
|             | 3      | C42                          | 4    | Ring                                |
|             | 4      | LJ50-3405218-B               | 1    | Front cover                         |
|             | 5      | 045-050-30-1-4               | 2    | Ring                                |
|             | 6      | LJ50-3405223-B               | 1    | Piston                              |
|             | 7      | LJ50-3405222                 | 1    | Piston nut                          |
|             | 8      | 24 251797 L43 50-34 -20,5*   | 1    | Piston seal                         |
|             | 9      | 025-028-19-1-4               | 1    | Ring                                |
|             | 10     | LJ50-3405228                 | 1    | Backing ring                        |
|             | 11     | 24 223269 T20 25-33-5,7*     | 1    | Push rod seal                       |
|             | 12     | 24 004792 PU6 25-33,6-6,5*   | 1    | Push rod collar                     |
|             | 13     | A.M8x10                      | 1    | Screw                               |
|             | 4      | LJ50-3405224                 | 1    | Captive nut                         |
|             | 15     | LJ50-3405221-B               | 1    | Push rod                            |
|             | 16     | 24 223123 OMS-MR 25-32,3-3*  | 1    | Push rod seal                       |
|             | 17     | 24 226044 SB 25-28-5,5*      | 2    | Push rod guide                      |

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\* Sealing elements produced by Freudenberg Company (Germany)

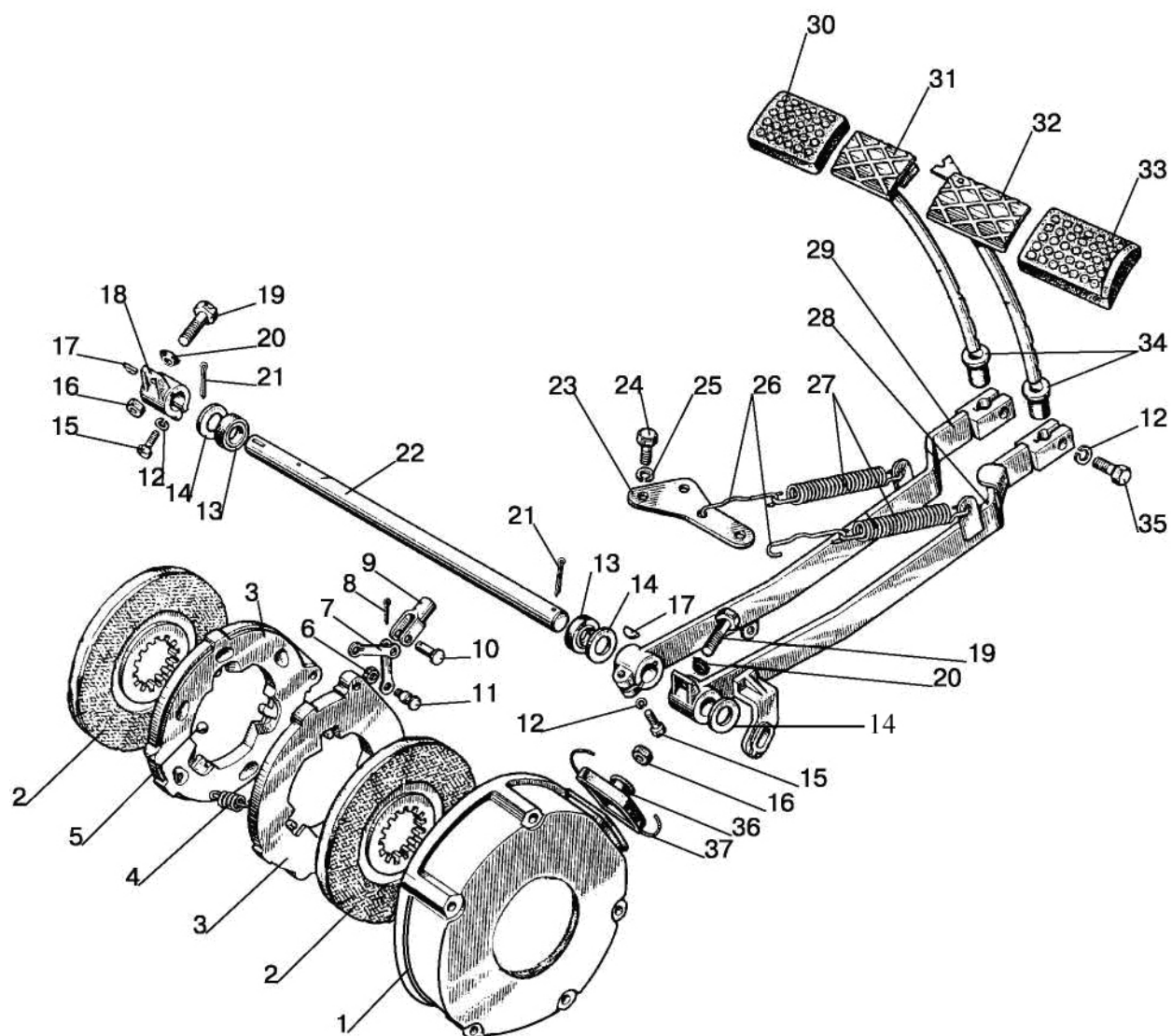


Fig. 35.1. Brakes. Brakes control

**Group 35. Brakes**  
**Subgroup 3502, 3503. Brakes. Brakes control**

| Fig.No      | Pos.No | Assembly unit or part number      | Q-ty | Name                  |
|-------------|--------|-----------------------------------|------|-----------------------|
| <b>35.1</b> |        | 85-3502010-01                     | 2    | Brake (1-11,36,37)    |
|             |        | 85-3502030                        | 2    | Pressure disk (3-11)  |
|             |        | 70-3503080                        | 2    | Brake rod (16,19, 20) |
|             |        | 80-3503080                        | 1    | Right pedal (32, 33)  |
|             |        | 80-3503090                        | 1    | Left pedal (30, 31)   |
|             | 1      | 1221-3502035                      | 2    | Housing               |
|             | 2      | 85-3502040-01 or<br>85-3502040-04 | 4    | Brake disk            |
|             | 3      | 85-3502036                        | 4    | Pressure disk         |
|             | 4      | 77.38.163                         | 6    | Spring                |
|             | 5      | 22,225-100                        | 10   | Ball                  |
|             | 6      | M8                                | 4    | Nut                   |
|             | 7      | 85-3502196                        | 4    | Rod                   |
|             | 8      | 3,2x18                            | 2    | Forelock              |
|             | 9      | 50-3502203                        | 2    | Yoke                  |
|             | 10     | 12x32                             | 2    | Pin                   |
|             | 11     | 50-3502198                        | 4    | Pin                   |
|             | 12     | ШП 12                             | 4    | Washer                |
|             | 13     | 2.2-25x42-1                       | 2    | Collar                |
|             | 14     | 50-3503071                        | 3    | Washer                |
|             | 15     | M12x35                            | 2    | Bolt                  |
|             | 16     | M12x1,25                          | 2    | Nut                   |
|             | 17     | СШ-611                            | 2    | Key                   |
|             | 18     | 70-3503017-A                      | 1    | Lever                 |
|             | 19     | 70-3503019                        | 2    | Bolt                  |
|             | 20     | 70-3503018                        | 2    | Washer                |
|             | 21     | 5x36                              | 2    | Forelock              |
|             | 22     | 50-3503015                        | 1    | Shaft                 |
|             | 23     | 85-3503046                        | 1    | Bracket               |
|             | 24     | M10x25                            | 2    | Bolt                  |
|             | 25     | ШП 10                             | 2    | Washer                |
|             | 26     | 70-3503045                        | 2    | Extender              |
|             | 27     | 50-1605152                        | 2    | Spring                |
|             | 28     | 85-3503110-A                      | 1    | Lever                 |
|             | 29     | 85-3503120-A                      | 1    | Lever                 |
|             | 30     | A13.34.001                        | 1    | Lining                |
|             | 31     | 80-3503140                        | 1    | Left pedal            |
|             | 32     | 80-3503130                        | 1    | Right pedal           |
|             | 33     | A13.33.002                        | 1    | Lining                |
|             | 34     | 80-3503158-A                      | 2    | Seal                  |
|             | 35     | M12x30                            | 2    | Bolt                  |
|             | 36     | 50-3502202                        | 2    | Case                  |
|             | 37     | 1,6x300                           | 2    | Wire                  |



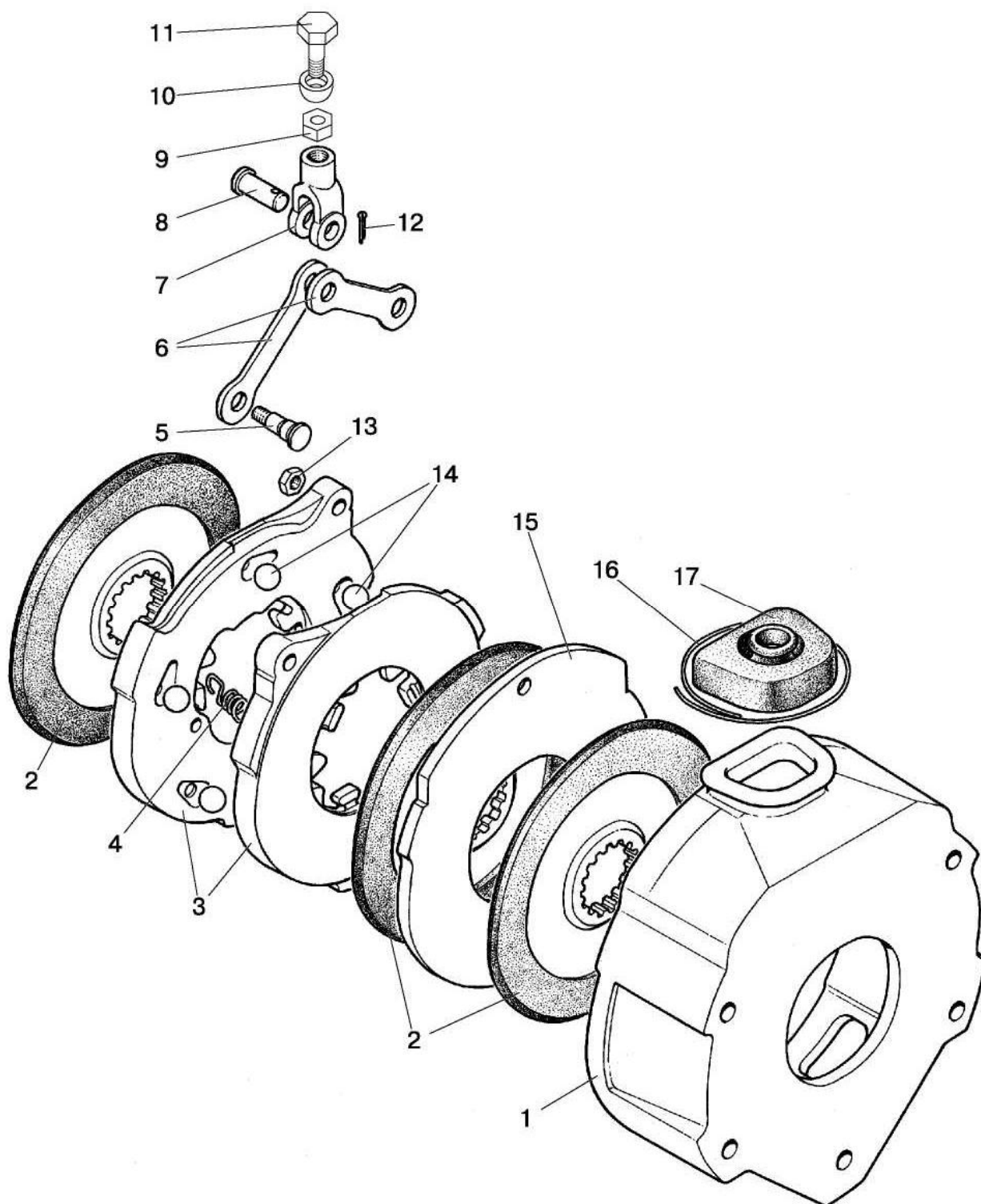


Fig. 35.2. Brakes (version)

**Group 35. Brakes**  
**Subgroup 3502. Brakes (version)**

| Fig.No      | Pos.No | Assembly unit or part number      | Q-ty | Name                       |
|-------------|--------|-----------------------------------|------|----------------------------|
| <b>35.2</b> |        | 1522-3502010                      | 2    | Brake (1-8, 12-17)         |
|             |        | 70-3503080                        | 2    | Brake rod (9-11)           |
|             |        | 85-3502030                        | 2    | Pressure disk (3-8, 12-14) |
|             | 1      | 1522-3502035                      | 2    | Housing                    |
|             | 2      | 85-3502040-01 or<br>85-3502040-04 | 6    | Disk                       |
|             | 3      | 85-3502036                        | 4    | Pressure disk              |
|             | 4      | 77.38.163                         | 6    | Spring                     |
|             | 5      | 50-3502198                        | 4    | Pin                        |
|             | 6      | 85-3502196                        | 4    | Rod                        |
|             | 7      | 50-3502203                        | 2    | Yoke                       |
|             | 8      | 12x32                             | 2    | Pin                        |
|             | 9      | M12x1,25                          | 2    | Nut                        |
|             | 10     | 70-3503018                        | 2    | Washer                     |
|             | 11     | 70-3503019                        | 2    | Bolt                       |
|             | 12     | 3,2x18                            | 2    | Forelock                   |
|             | 13     | M8                                | 4    | Nut                        |
|             | 14     | 22,225-100                        | 10   | Ball                       |
|             | 15     | 1522-3502037-Б                    | 2    | Disk                       |
|             | 16     | 1,6x300                           | 2    | Wire                       |
|             | 17     | 50-3502202                        | 2    | Case                       |

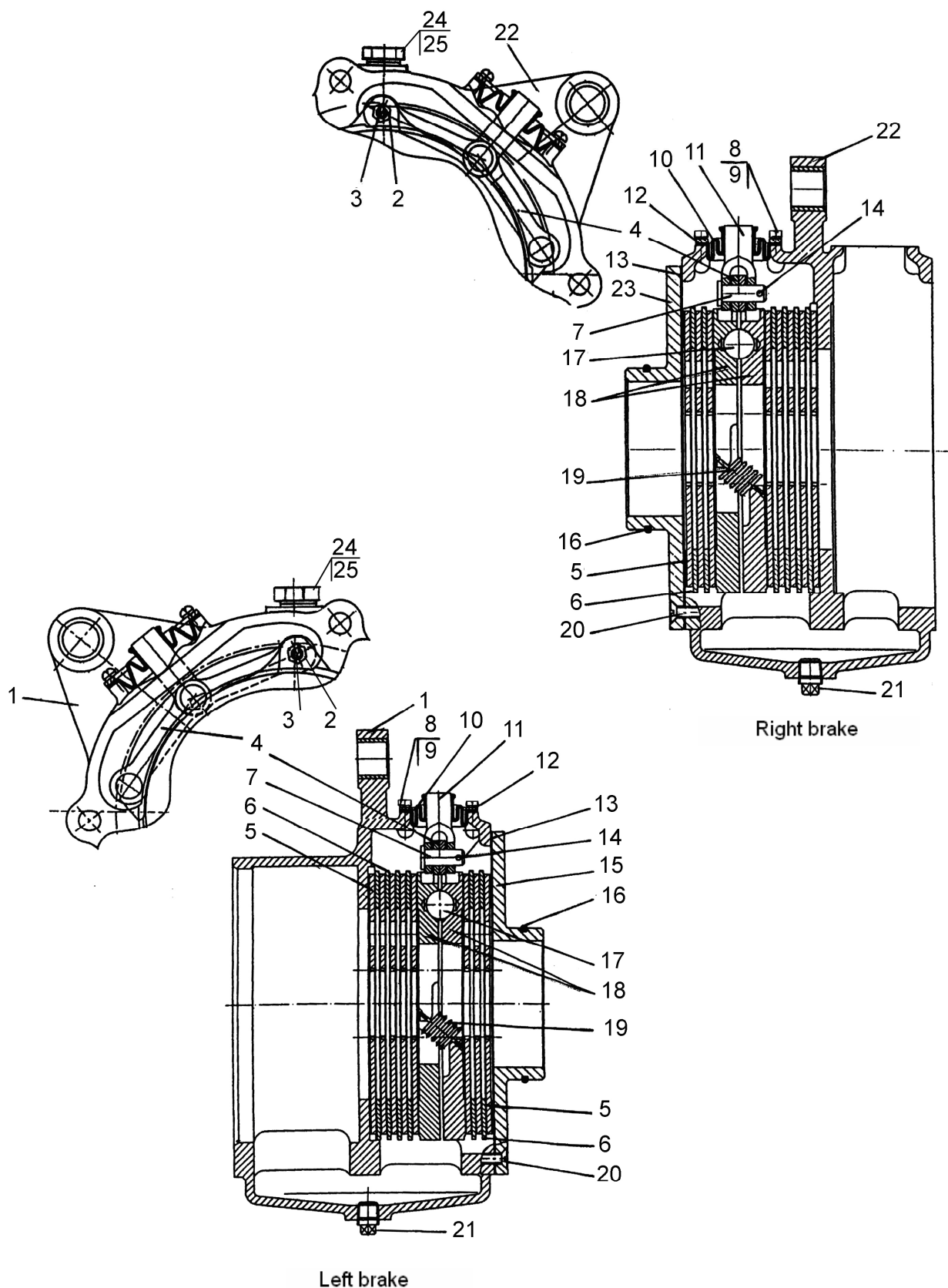


Fig. 35.3. Wet brakes

**Group 35. Brakes**  
**Subgroup 3502. Wet brakes**

| Fig.No      | Pos.No | Assembly unit or part number        | Q-ty | Name                                               |
|-------------|--------|-------------------------------------|------|----------------------------------------------------|
| <b>35.3</b> |        | 1221M-3502010-02                    | 1    | Right brake (2-14, 16-20,22,23)                    |
|             |        | 1221M-3502020-02                    | 1    | Left brake (1-20)                                  |
|             |        | 85-3502030-01                       | 2    | Pressure disks (2, 3, 4, 7, 11, 14, 17-19)         |
|             | 1      | 1221M-2409035                       | 1    | Housing                                            |
|             | 2      | M8                                  | 4    | Nut                                                |
|             | 3      | 50-3502198                          | 4    | Pin                                                |
|             | 4      | 85-3502196                          | 4    | Rod                                                |
|             | 5      | 1522-3502015-07                     | 16   | Disk                                               |
|             | 6      | 80M-3502037                         | 12   | Intermediate disk (S=3,0 mm)<br>2 pieces selection |
|             |        | 80M-3502037-01                      | *    | Intermediate disk (S=3,2 mm)                       |
|             |        | 80M-3502037-02                      | *    | Intermediate disk (S=3,4 mm)                       |
|             |        | 80M-3502037-03                      | *    | Intermediate disk (S=3,6 mm)                       |
|             |        | 80M-3502037-04                      | *    | Intermediate disk (S=3,8 mm)                       |
|             |        | 80M-3502037-05                      | *    | Intermediate disk (S=4,0 mm)                       |
|             |        | 80M-3502037-06                      | *    | Intermediate disk (S=4,2 mm)                       |
|             |        | 80M-3502037-07                      | *    | Intermediate disk (S=4,4 mm)                       |
|             | 7      | 12x32                               | 2    | Pin                                                |
|             | 8      | M6x10                               | 8    | Bolt                                               |
|             | 9      | ШП 6                                | 8    | Washer                                             |
|             | 10     | 80M-3502202                         | 2    | Case                                               |
|             | 11     | 50-3502203                          | 2    | Yoke                                               |
|             | 12     | 80M-3502204                         | 2    | Plate                                              |
|             | 13     | 1221M-3502051                       | 2    | Gasket                                             |
|             | 14     | 3,2x18                              | 2    | Forelock                                           |
|             | 15     | 1221M-2407059                       | 1    | Sleeve cover (left)                                |
|             | 16     | 115-120-30-2-2                      | 2    | Ring                                               |
|             | 17     | 22,225-100                          | 10   | Ball                                               |
|             | 18     | 85-3502036-01                       | 4    | Pressure disk                                      |
|             | 19     | 77.38.163                           | 6    | Spring                                             |
|             | 20     | B.M8x25                             | 6    | Screw                                              |
|             | 21     | ПК КГ <sup>3</sup> / <sub>8</sub> " | 4    | Plug                                               |
|             | 22     | 1221M-3502035                       | 1    | Housing                                            |
|             | 23     | 1221M-2407059-01                    | 1    | Sleeve cover (right)                               |
|             | 24     | 1221-1802091                        | 2    | Plug                                               |
|             | 25     | Д18-055-A                           | 2    | O-ring                                             |

\* Selected during the installation for required gap.

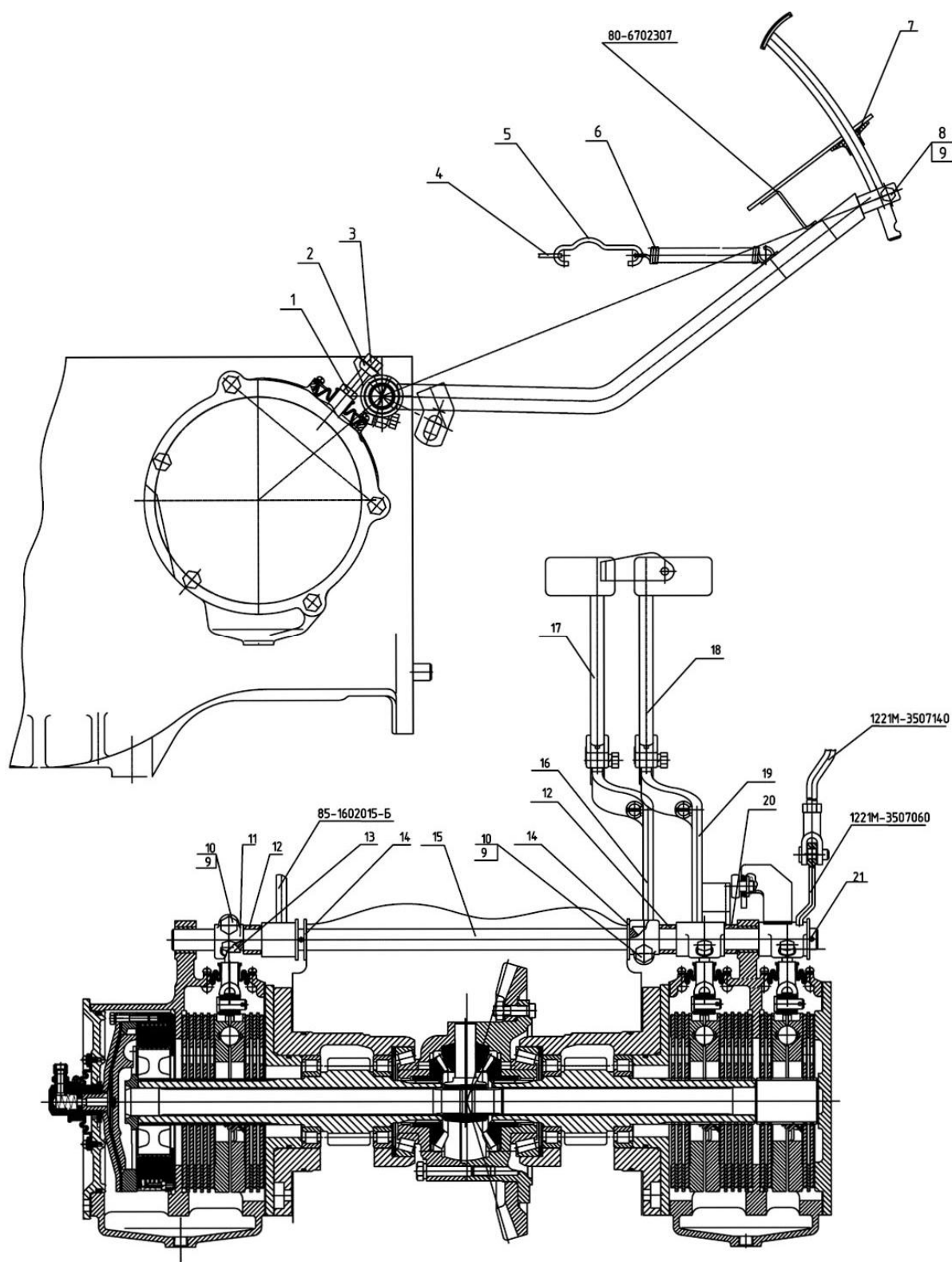


Fig. 35.4. Wet brakes control

**Group 35. Brakes**  
**Subgroup 3503. Wet brakes control**

| Fig.No      | Pos.No | Assembly unit or part number       | Q-ty | Name                     |
|-------------|--------|------------------------------------|------|--------------------------|
| <b>35.4</b> |        | 70-3503080                         | 3    | Rod (1-3)                |
|             | 1      | M12x1,25-6H.04.019                 | 2    | Nut GOST 5916-70         |
|             | 2      | 70-3503018                         | 2    | Washer                   |
|             | 3      | 70-3503019                         | 2    | Bolt                     |
|             | 4      | 85-3503046                         | 1    | Bracket                  |
|             | 5      | 70-3503045                         | 2    | Extender                 |
|             | 6      | 50-1605152                         | 2    | Spring                   |
|             | 7      | 80-3503158-A                       | 2    | Seal                     |
|             | 8      | M12-6gx30.88.35.019                | 2    | Bolt GOST 7796-70        |
|             | 9      | 12 OT                              | 4    | Washer OST 37.001.115-75 |
|             | 10     | M12-6gx35.88.35.019                | 2    | Bolt GOST 7796-70        |
|             | 11     | 70-3503017-A                       | 1    | Lever                    |
|             | 12     | 1221M-3503016-01                   | 2    | Bushing                  |
|             | 13     | CШ-611                             | 2    | Key 6x11                 |
|             | 14     | 50-3503071                         | 4    | Washer                   |
|             | 15     | 1221M-3503015                      | 1    | Shaft                    |
|             | 16     | 85-3503120-A                       | 1    | Lever                    |
|             | 17     | 80-3503140                         | 1    | Left pedal               |
|             | 18     | 80-3503130                         | 1    | Right pedal              |
|             | 19     | 1221M-3503110<br>1221M-3503110-01* | 1    | Lever                    |
|             | 20     | 1221M-3503016                      | 1    | Bushing                  |
|             | 21     | 5x36.019                           | 2    | Forelock GOST 397-79     |

\* For reversal brakes control

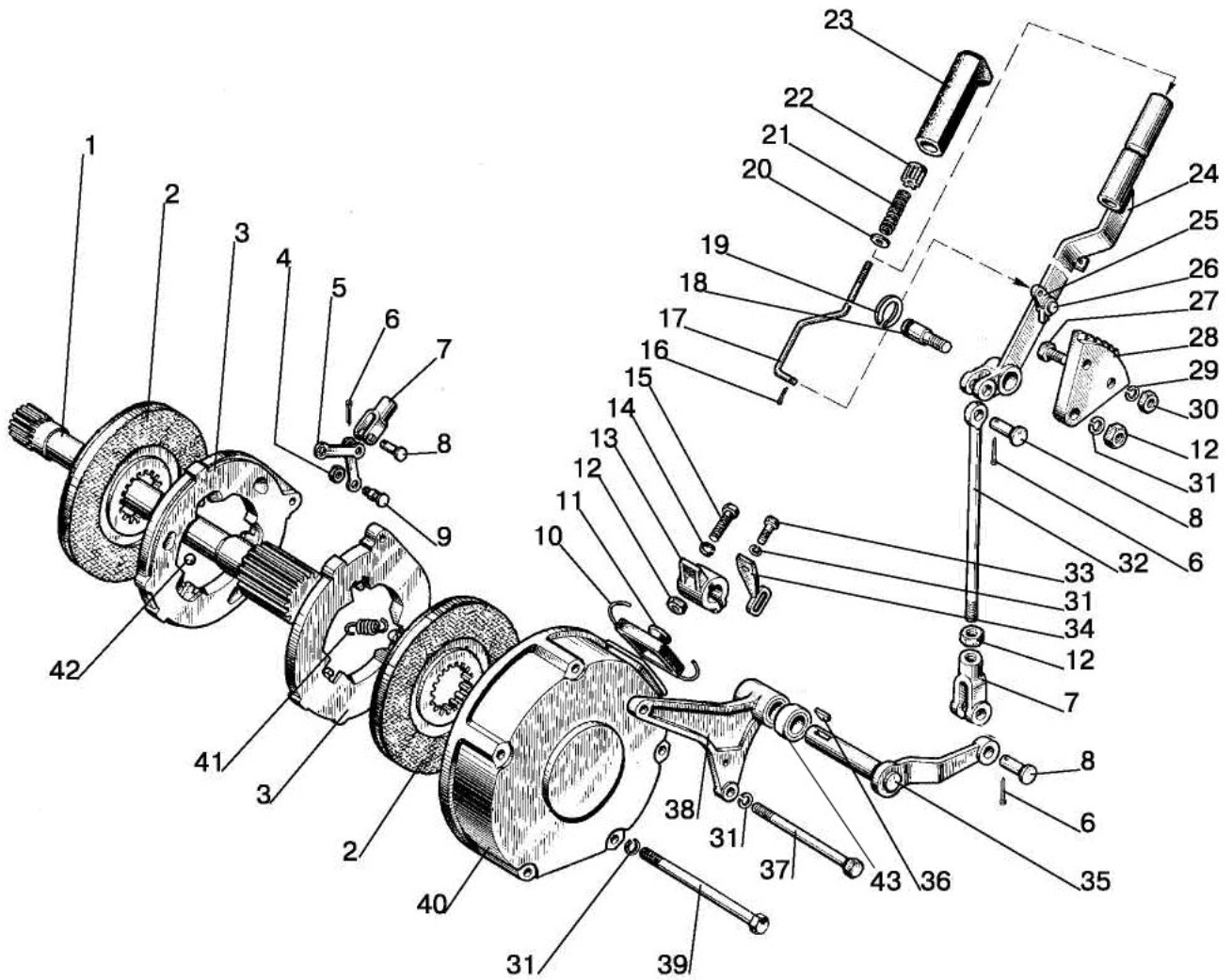


Fig. 35.5. Parking and emergency brake. Parking and emergency brake control

**Group 35.Brakes.**  
**Subgroup 3504, 3507. Parking and emergency brake.**  
**Parking and emergency brake control**

| Fig.No      | Pos.No | Assembly unit or part number          | Q-ty   | Name                        |
|-------------|--------|---------------------------------------|--------|-----------------------------|
| <b>35.5</b> |        | 50-3502010-02                         | 1      | Brake (2-11, 40-42)         |
|             |        | 50-3502030-A                          | 1      | Pressure disk(3-9, 41, 42)  |
|             |        | 70-3503080                            | 1      | Brake rod (12,14,15)        |
|             |        | 85-3507140*                           | 1      | Rod (7,12,32)               |
|             |        | 85-3507240                            | 1      | Rod (7,12,32)               |
|             |        | 85-3507150-01                         | 1      | Bracket (13,31,33-36,38,43) |
|             |        | 85-3507150-03*                        | 1      | Bracket (13,31,33-36,38,43) |
|             |        | 85-3507120-01                         | 1      | Lever (16,17,20-26)         |
|             | 1      | 70-3504055*<br>70-3504055-01          | 1      | Shaft                       |
|             | 2      | 70-3502040-01 or<br>70-3502040-04     | 2      | Brake disk                  |
|             | 3      | 50-3502036-B                          | 2      | Pressure disk               |
|             | 4      | M8-6H.6.019                           | 2      | Nut GOST 5915-70            |
|             | 5      | 50-3502196                            | 2      | Rod                         |
|             | 6      | 3,2x18.019                            | 3      | Forelock GOST 397-79        |
|             | 7      | 50-3502203                            | 2      | Yoke                        |
|             | 8      | 12x32                                 | 3      | Pin OST 37.001.163-75       |
|             | 9      | 50-3502198                            | 2      | Pin                         |
|             | 10     | 1,6-O-C                               | 1      | Wire GOST 3282-74 300 mm    |
|             | 11     | 50-3502202                            | 1      | Case                        |
|             | 12     | M12x1,25-6H.04.019                    | 3      | Nut GOST 5916-70            |
|             | 13     | 70-3503017-A                          | 1      | Lever                       |
|             | 14     | 70-3503018                            | 1      | Washer                      |
|             | 15     | 70-3503019                            | 1      | Bolt                        |
|             | 16     | 2x12.019                              | 1      | Forelock GOST 397-79        |
|             | 17     | 70-3507122-01                         | 1      | Rod                         |
|             | 18     | 70-3507132-B-01                       | 1      | Axis                        |
|             | 19     | C15                                   | 1      | Ring GOST 13942-86          |
|             | 20     | C 5.01.019                            | 1      | Washer GOST 6958-78         |
|             | 21     | 55-17-27                              | 1      | Spring                      |
|             | 22     | A13.19.002                            | 1      | Button                      |
|             | 23     | A13.19.001-A                          | 1      | Handle                      |
|             | 24     | 85-3507130-01                         | 1      | Lever                       |
|             | 25     | 50-1606026                            | 1      | Latch                       |
|             | 26     | 70-3507024                            | 1      | Axis                        |
|             | 27     | M10-6gx35.88.35.019                   | 2      | Bolt GOST 7796-70           |
|             | 28     | 70-3507021-B                          | 1      | Quadrant                    |
|             | 29     | 10 OT                                 | 2      | Washer OST 37.001.115-75    |
|             | 30     | M10-6H.6.019                          | 2      | Nut GOST 5915-70            |
|             | 31     | 12 OT                                 | 7      | Washer OST 37.001.115-75    |
|             | 32     | 85-3507141*<br>85-3507241             | 1      | Rod                         |
|             | 33     | M12-6gx40.88.35.019                   | 1      | Bolt GOST 7796-70           |
|             | 34     | 70-3514107*<br>80-3514107             | 1      | Lever                       |
|             | 35     | 85-3507060                            | 1      | Shaft                       |
|             | 36     | CШ-611                                | 1      | Key 6x11                    |
|             | 37     | M12-6gx200.58.019*<br>1522-2409034-03 | 2<br>2 | Bolt GOST 7795-70<br>Bolt   |
|             | 38     | 70-3507070-01                         | 1      | Bracket                     |

\* During the installation of double-disk brakes.



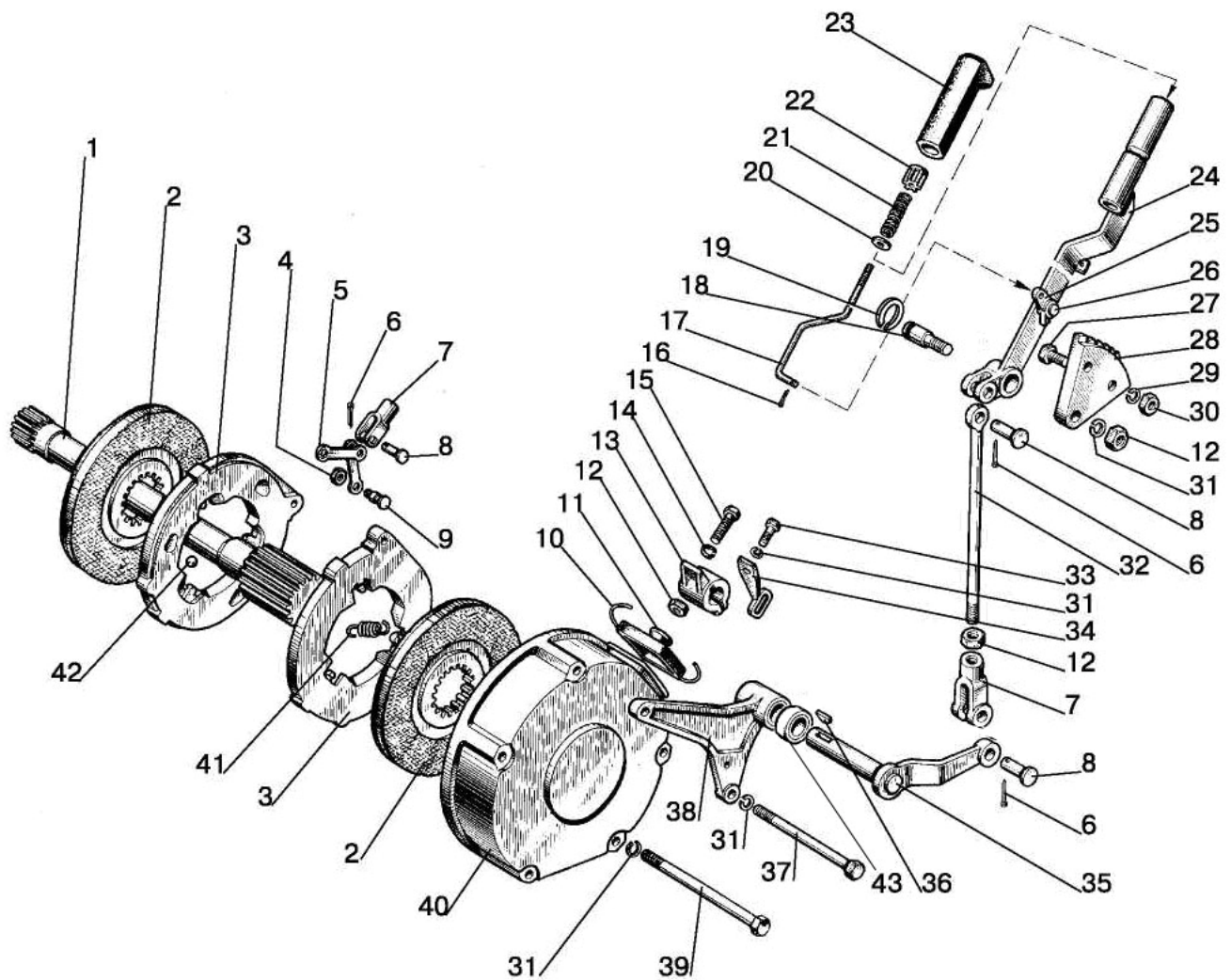


Fig. 35.5. Parking and emergency brake. Parking and emergency brake control

**Group 35.Brakes.**  
**Subgroup 3504, 3507. Parking and emergency brake.**  
**Parking and emergency brake control**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name              |
|-------------|--------|------------------------------|------|-------------------|
| <b>35.5</b> | 39     | M12-6gx180.58.019*           | 3    | Bolt GOST 7795-70 |
|             |        | M12-6gx200.58.019            | 3    | Bolt GOST 7795-70 |
|             | 40     | 50-3502035- A2               | 1    | Housing           |
|             | 41     | 77.38.163                    | 3    | Spring            |
|             | 42     | 22,225-100                   | 3    | Ball GOST 3722-81 |
|             | 43     | 1221-3507072                 | 1    | Bushing           |

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\* During the installation of double-disk brakes.

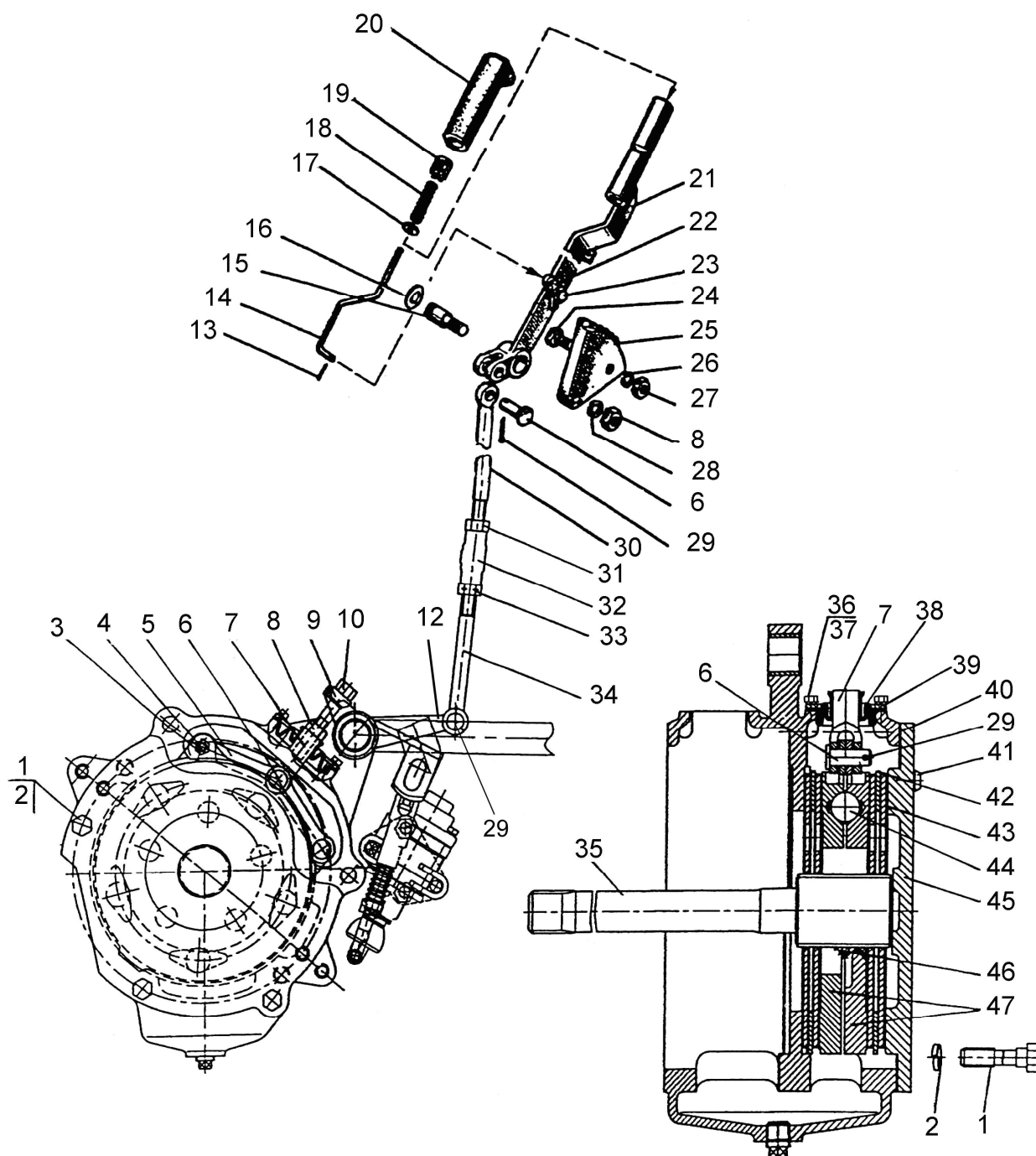


Fig. 35.6. Parking and emergency brake. Parking and emergency brake control (for wet brakes)

**Group 35. Brakes**  
**Subgroup 3504, 3507. Parking and emergency brake.**  
**Parking and emergency brake control (for wet brakes)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                                 |
|--------|--------|------------------------------|------|--------------------------------------|
| 35.6   |        | 85-3502030-01                | 1    | Pressure disks (3-7, 29, 44, 46, 47) |
|        |        | 1221M-3507140                | 1    | Rod (30-34)                          |
|        |        | 70-3503080                   | 1    | Brake rod (8-10)                     |
|        |        | 85-3507120-01                | 1    | Lever (13-14,17-23)                  |
|        | 1      | 1221M-3502039-01             | 5    | Bolt                                 |
|        | 2      | 14 OT                        | 5    | Washer OST 37.001.115-75             |
|        | 3      | M8-6H.6.019                  | 2    | Nut GOST 5915-70                     |
|        | 4      | 50-3502198                   | 2    | Pin                                  |
|        | 5      | 85-3502196                   | 2    | Rod                                  |
|        | 6      | 12x32                        | 2    | Pin OST 37.001.163-75                |
|        | 7      | 50-3502203                   | 1    | Yoke                                 |
|        | 8      | M12x1,25-6H.6.019            | 2    | Nut GOST 5916-70                     |
|        | 9      | 70-3503018                   | 1    | Washer                               |
|        | 10     | 70-3503019                   | 1    | Bolt                                 |
|        | 12     | 1221M-3507060                | 1    | Lever                                |
|        | 13     | 2x12.019                     | 1    | Forelock GOST 397-79                 |
|        | 14     | 70-3507122-01                | 1    | Rod                                  |
|        | 15     | 70-3507132-B-01              | 1    | Axis                                 |
|        | 16     | C15                          | 1    | Ring GOST 13942-86                   |
|        | 17     | C 5.01.019                   | 1    | Washer GOST 6958-78                  |
|        | 18     | 55-17-27                     | 1    | Spring                               |
|        | 19     | A13.19.002                   | 1    | Button                               |
|        | 20     | A13.19.001-A                 | 1    | Handle                               |
|        | 21     | 85-3507130-01                | 1    | Lever                                |
|        | 22     | 50-1606026                   | 1    | Latch                                |
|        | 23     | 70-3507024                   | 1    | Axis                                 |
|        | 24     | M10-6gx35.88.35.019          | 2    | Bolt GOST 7796-70                    |
|        | 25     | 70-3507021-B                 | 1    | Quadrant                             |
|        | 26     | 10 OT                        | 2    | Washer OST 37.001.115-75             |
|        | 27     | M10-6H.6.019                 | 2    | Nut GOST 5915-70                     |
|        | 28     | 12 OT                        | 1    | Washer OST 37.001.115-75             |
|        | 29     | 3,2x18.019                   | 3    | Forelock GOST 397-79                 |
|        | 30     | 1221M-3507141                | 1    | Rod                                  |
|        | 31     | M12-6H.6.019                 | 1    | Nut GOST 5915-70                     |
|        | 32     | P50-4616043                  | 1    | Coupling                             |
|        | 33     | P50-4616038                  | 1    | Nut                                  |
|        | 34     | 1221M-3507240                | 1    | Rod                                  |
|        | 35     | 1221M-3504055                | 1    | Shaft                                |
|        | 36     | M6-6gx12.88.35.019           | 4    | Bolt GOST 7798-70                    |
|        | 37     | 6T                           | 4    | Washer OST 37.001.115-75             |
|        | 38     | 80M-3502202                  | 1    | Case                                 |
|        | 39     | 80M-3502204                  | 1    | Plate                                |
|        | 40     | 1221M-3502051                | 1    | Gasket                               |
|        | 41     | 50-1601352                   | 2    | Adjusting pin                        |
|        | 42     | 80M-3502037                  | 2    | Intermediate disk (S=3,0 mm)         |
|        |        | 80M-3502037-01               | *    | Intermediate disk (S=3,2 mm)         |
|        |        | 80M-3502037-02               | *    | Intermediate disk (S=3,4 mm)         |
|        |        | 80M-3502037-03               | *    | Intermediate disk (S=3,6 mm)         |
|        |        | 80M-3502037-04               | *    | Intermediate disk (S=3,8 mm)         |
|        |        | 80M-3502037-05               | *    | Intermediate disk (S=4,0 mm)         |
|        |        | 80M-3502037-06               | *    | Intermediate disk (S=4,2 mm)         |
|        |        | 80M-3502037-07               | *    | Intermediate disk (S=4,4 mm)         |

\* Selected during the installation for required gap

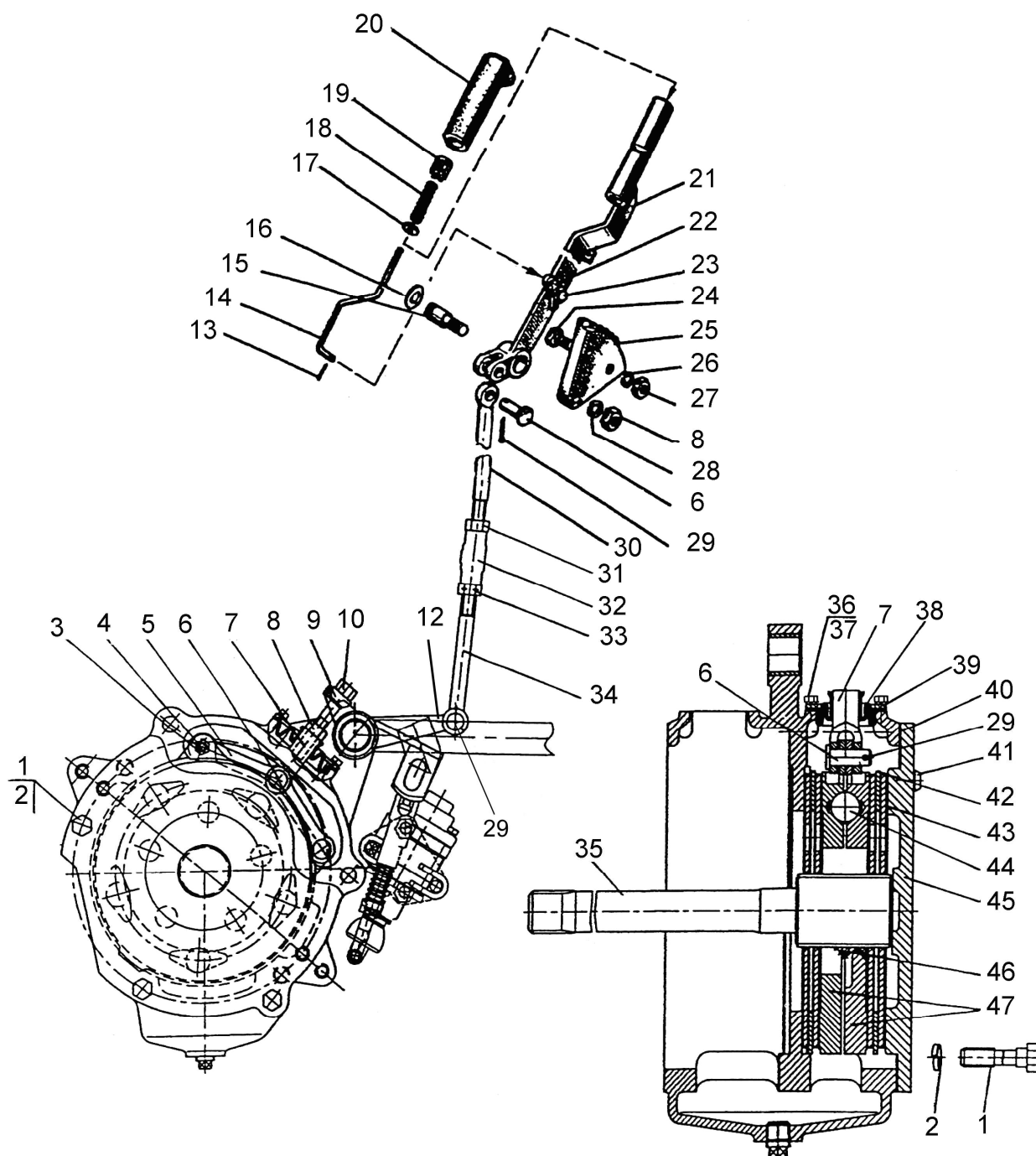


Fig. 35.6. Parking and emergency brake. Parking and emergency brake control (for wet brakes)

**Group 35. Brakes**  
**Subgroup 3504, 3507. Parking and emergency brake.**  
**Parking and emergency brake control (for wet brakes)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name              |
|--------|--------|------------------------------|------|-------------------|
| 35.6   | 43     | 1522-3502015-07              | 4    | Disk              |
|        | 44     | 22,225-100                   | 5    | Ball GOST 3722-81 |
|        | 45     | 1221M-3502034                | 1    | Cover             |
|        | 46     | 77.38.163                    | 3    | Spring            |
|        | 47     | 85-3502036-01                | 2    | Pressure disk     |

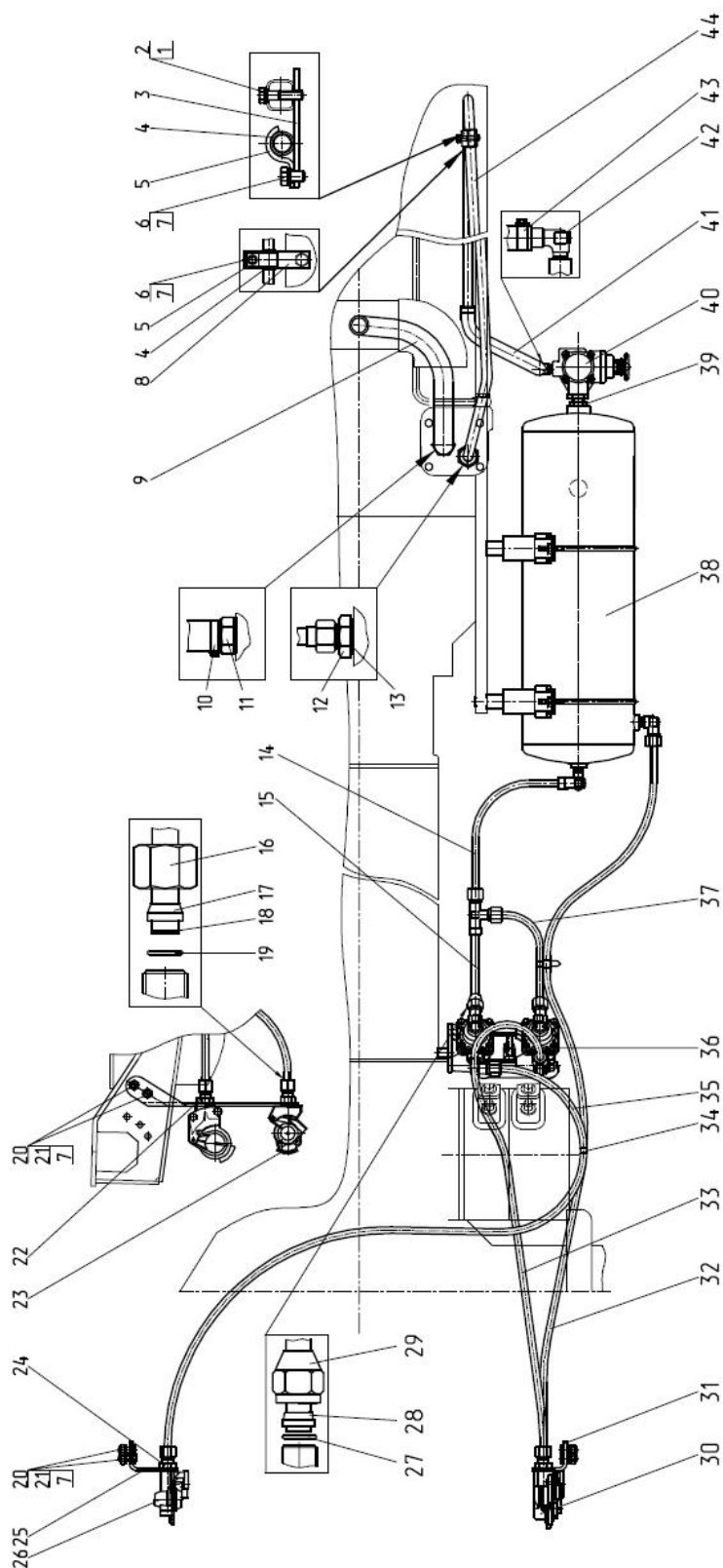


Fig. 35.7 Pipelines and fittings of trailer brakes air drive

**Subgroup 3506. Pipelines and fittings of trailer brakes air drive**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                            |
|-------------|--------|------------------------------|------|---------------------------------|
| <b>35.7</b> | 1      | M8-6gx35.88.35.019           | 1    | Bolt GOST 7796-70               |
|             | 2      | 8T OST 37.001.115-75         | 1    | Washer                          |
|             | 3      | 85-3407107                   | 1    | Plate                           |
|             | 4      | 70-3506027                   | 2    | Bushing                         |
|             | 5      | 102-3407014                  | 2    | Joke                            |
|             | 6      | M10-6gx16.88.35.019          | 2    | Bolt GOST 7796-70               |
|             | 7      | 10 OT OST 37.001.115-75      | 6    | Washer                          |
|             | 8      | 1221M-3506012                | 1    | Plate                           |
|             | 9      | 1221M-3506016                | 1    | Hose                            |
|             | 10     | 25-40                        | 2    | Clamp with worm thread          |
|             | 11     | 2022Д-3506030                | 1    | Union body                      |
|             | 12     | 2022Д-3506022                | 1    | Union body                      |
|             | 13     | 80-1702098                   | 2    | Washer                          |
|             | 14     | 1025-3506560                 | 1    | Pipe line                       |
|             | 15     | 1025-3506540                 | 1    | Pipe line                       |
|             | 16     | 1522-3506023                 | 10   | Captive nut                     |
|             | 17     | 1522-3506024                 | 10   | Coupling                        |
|             | 18     | 1522-3506022                 | 10   | Nipple                          |
|             | 19     | 012-015-19-2-4 GOST          | 10   | Ring GOST 18829-73/GOST 9833-73 |
|             | 20     | M10-6gx25.88.35.019          | 4    | Bolt GOST 7796-70               |
|             | 21     | M10-6H.6.019                 | 4    | Nut GOST 5915-70                |
|             | 22     | 1522-3521012                 | 1    | Union body                      |
|             | 23     | 64226-3521110                | 1    | Coupling head                   |
|             | 24     | 1522-3521513                 | 2    | Union body                      |
|             | 25     | 1025-3521512                 | 1    | Bracket                         |
|             | 26     | 64226-3521111                | 1    | Coupling head                   |
|             | 27     | 014-017-19-2-4               | 1    | Ring GOST 18829-73/GOST 9833-73 |
|             | 28     | 70-3506028                   | 1    | Coupling                        |
|             | 29     | 70-3506023                   | 1    | Captive nut                     |
|             | 30     | A29.76.000                   | 1    | Coupling head                   |
|             | 31     | 1221M-3521711                | 1    | Bracket                         |
|             | 32     | 1522-3506520                 | 1    | Pipe line                       |
|             | 33     | 1522M-3506050                | 1    | Pipe line                       |
|             | 34     | 80-3723045                   | 2    | Collar                          |
|             | 35     | 1025-3506560-02              | 1    | Pipe line                       |
|             | 36     | 1221M-3514705                | 1    | Break valve                     |
|             | 37     | 1221M-3506020                | 1    | Pipe line                       |
|             | 38     | 1221M-3513705                | 1    | Ballon                          |
|             | 39     | 80-3512006                   | 1    | Lock nut                        |
|             | 40     | A29.51.000 Б                 | 1    | Pressure regulator              |
|             | 41     | 1221M-3506014                | 1    | Hose                            |
|             | 42     | 2022Д-3506015                | 1    | Elbow                           |
|             | 43     | 16-27                        | 2    | Clamp with worm thread          |
|             | 44     | 1221M-3506010                | 1    | Pipe line                       |



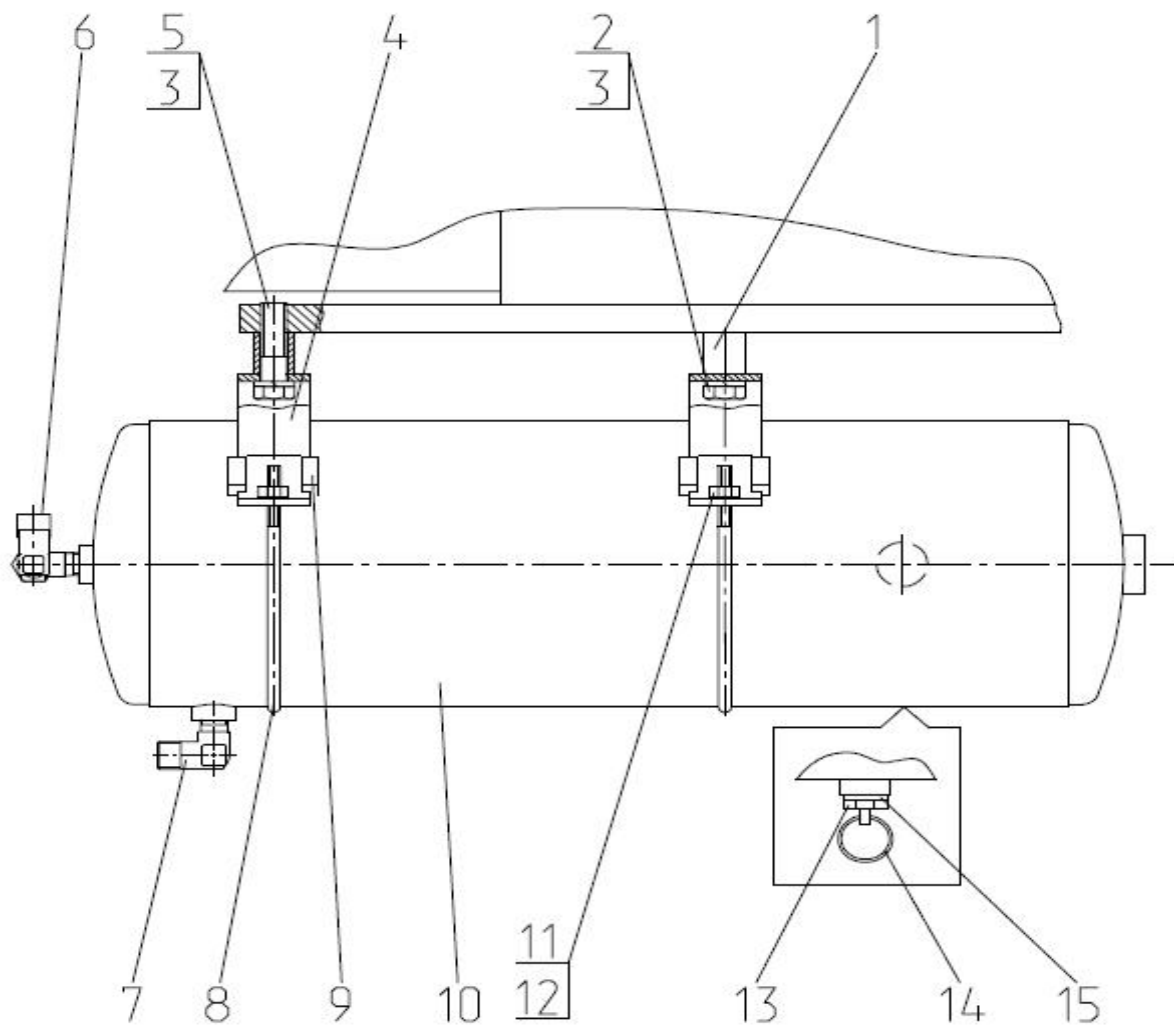


Fig. 35.8. Ballon

**Group 35.Brakes**  
**Subgroup 3513. Ballon**

| Fig.No      | Pos.No | Assembly unit or part number        | Q-ty | Name           |
|-------------|--------|-------------------------------------|------|----------------|
| <b>35.8</b> | 1      | 1221M-3513712                       | 4    | Bushing        |
|             | 2      | M16-6gx80.88.35.019<br>GOST 7795-70 | 2    | Bolt           |
|             | 3      | 16 OT OST 37.001.115-75             | 4    | Washer         |
|             | 4      | B50-3513025-A                       | 2    | Bracket        |
|             | 5      | M16-6gx60.88.35.019<br>GOST 7795-70 | 2    | Bolt           |
|             | 6      | 1021-3513015                        | 1    | Three-way pipe |
|             | 7      | 1522-3514033                        | 1    | Elbow          |
|             | 8      | B50-3513032                         | 2    | Clamp          |
|             | 9      | ПП-43-01                            | 4    | Seal           |
|             | 10     | 1021-3513020                        | 1    | Ballon         |
|             | 11     | M6-6H.6.019 GOST 5915-70            | 2    | Nut            |
|             | 12     | 6T OST 37.001.115-75                | 2    | Washer         |
|             | 13     | 85-3513110                          | 1    | Valve          |
|             | 14     | H50-4202146                         | 1    | Ring           |
|             | 15     | B50-3522023                         | 1    | Gasket         |

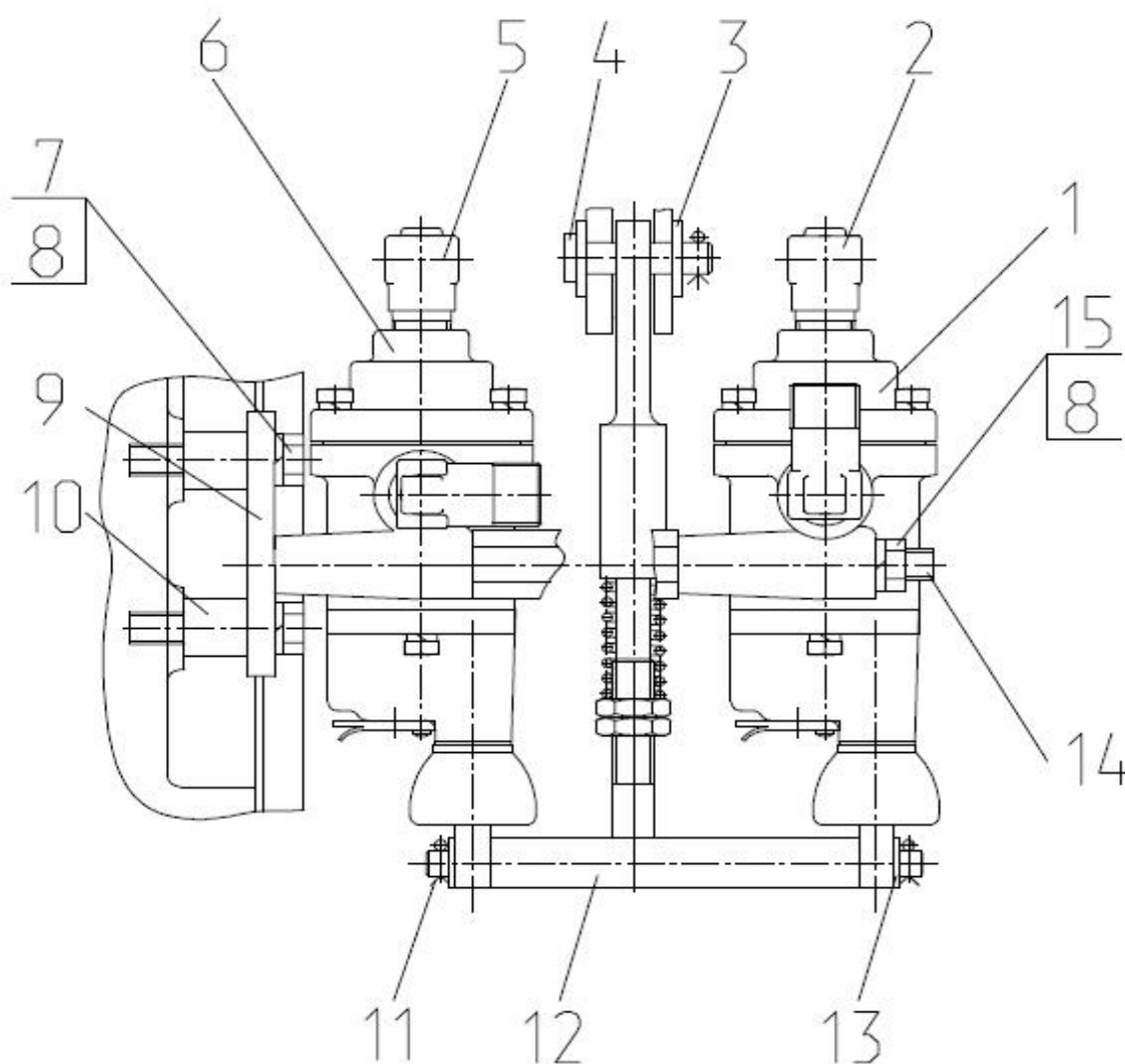


Fig. 35.9 Break valve

**Group 35.Brakes**  
**Subgroup 3514. Break valve**

| Fig.No      | Pos.No | Assembly unit or part number        | Q-ty | Name                                 |
|-------------|--------|-------------------------------------|------|--------------------------------------|
| <b>35.9</b> | 1      | A29.3514010<br>A29.3514010-01*      | 1    | Break valve<br>*For Hungary, Germany |
|             | 2      | 1522-3514033                        | 3    | Elbow                                |
|             | 3      | C 12.01.019 GOST 11371-78           | 2    | Washer                               |
|             | 4      | 12x40 OST 37.001.163-97             | 1    | Pin                                  |
|             | 5      | 70-3506033                          | 1    | Elbow                                |
|             | 6      | A29.351.4010-02                     | 1    | Break valve                          |
|             | 7      | M10-6gx45.88.35.019<br>GOST 7795-70 | 2    | Bolt                                 |
|             | 8      | 10 OT OST 37.001.115-75             | 4    | Washer                               |
|             | 9      | 85M-3514011                         | 1    | Bracket                              |
|             | 10     | 85-3514012                          | 2    | Lug                                  |
|             | 11     | 3,2x18.019 GOST 397-79              | 3    | Forelock                             |
|             | 12     | 1221M-3514730                       | 1    | Rod                                  |
|             | 13     | C 8.01.019 GOST 11371-78            | 2    | Washer                               |
|             | 14     | 1221M-3514714                       | 2    | Stud                                 |
|             | 15     | M10-6H.6.019 GOST<br>5915-70        | 2    | Nut                                  |

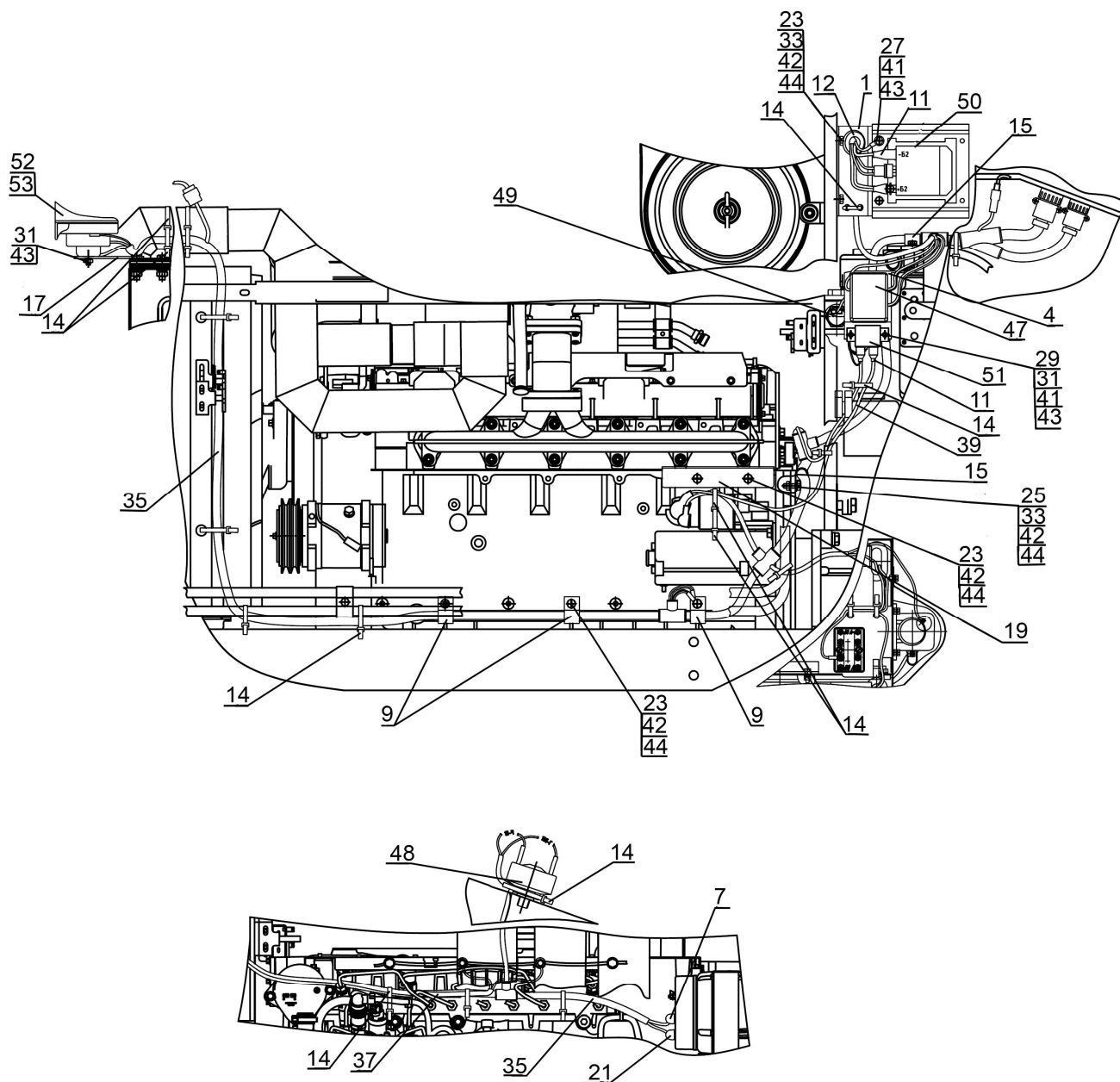


Fig. 37.1 Electrical equipment of engine

**Group 37. Electrical equipment**  
**Subgroup 3700. Electrical equipment of engine**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                          |
|-------------|--------|------------------------------|------|-------------------------------|
| <b>37.1</b> | 1      | 1221.4-3759020               | 1    | Bracket                       |
|             | 4      | 1221.4-3747021               | 1    | Bracket                       |
|             | 7      | 54.24.445-B                  | 1    | Tip                           |
|             | 9      | 70-1115012-01                | 3    | Clamp                         |
|             | 11     | 70-3723035                   | 4    | Tip                           |
|             | 12     | 70-3723042                   | 1    | Bushing                       |
|             | 14     | 80-3723045-01                | 22   | Collar                        |
|             | 15     | 822-3723044                  | 1    | Clamp                         |
|             | 17     | 1522-3721011                 | 2    | Plate                         |
|             | 19     | 2822ДЦ-3723001               | 1    | Screen                        |
|             | 21     | TM-59-6000-38                | 1    | Rubber tip                    |
|             | 23     | M8-6gx14.88.35.019           | 7    | Bolt GOST 7796-70             |
|             | 25     | M8-6gx25.88.35.019           | 1    | Bolt GOST 7796-70             |
|             | 27     | M6-6gx20.88.35.019           | 2    | Bolt GOST 7798-70             |
|             | 29     | B.M6-6gx20.58.019            | 4    | Screw GOST 17473-80           |
|             | 31     | M6-6H.6.019                  | 6    | Nut GOST 5915-70              |
|             | 33     | M8-6H.6.019                  | 3    | Nut GOST 5915-70              |
|             | 35     | 1221.4-3724360               | 1    | Harness GOST 23544-84         |
|             | 37     | 1222.4-3724380-A             | 1    | Harness GOST 23544-84         |
|             | 39     | 80-3724381                   | 1    | Cable GOST 23544-84           |
|             | 41     | C 6.01.019                   | 4    | Washer GOST 11371-78          |
|             | 42     | C 8.01.019                   | 8    | Washer GOST 11371-78          |
|             | 43     | 6T                           | 8    | Washer OST 37.001.115-75      |
|             | 44     | 8T                           | 8    | Washer OST 37.001.115-75      |
|             | 47     | 3722.40                      | 1    | Fuse block                    |
|             | 48     | 3845.10                      | 1    | Air cleaner clogging sensor   |
|             | 49     | 3829.15                      | 1    | Air pressure emergency sensor |
|             | 50     | 3759.10                      | 1    | Voltage transducer            |
|             | 51     | 3747.35                      | 1    | Glow plug relay               |
|             | 52     | 3721.15                      | 1    | High pitch motorhorn          |

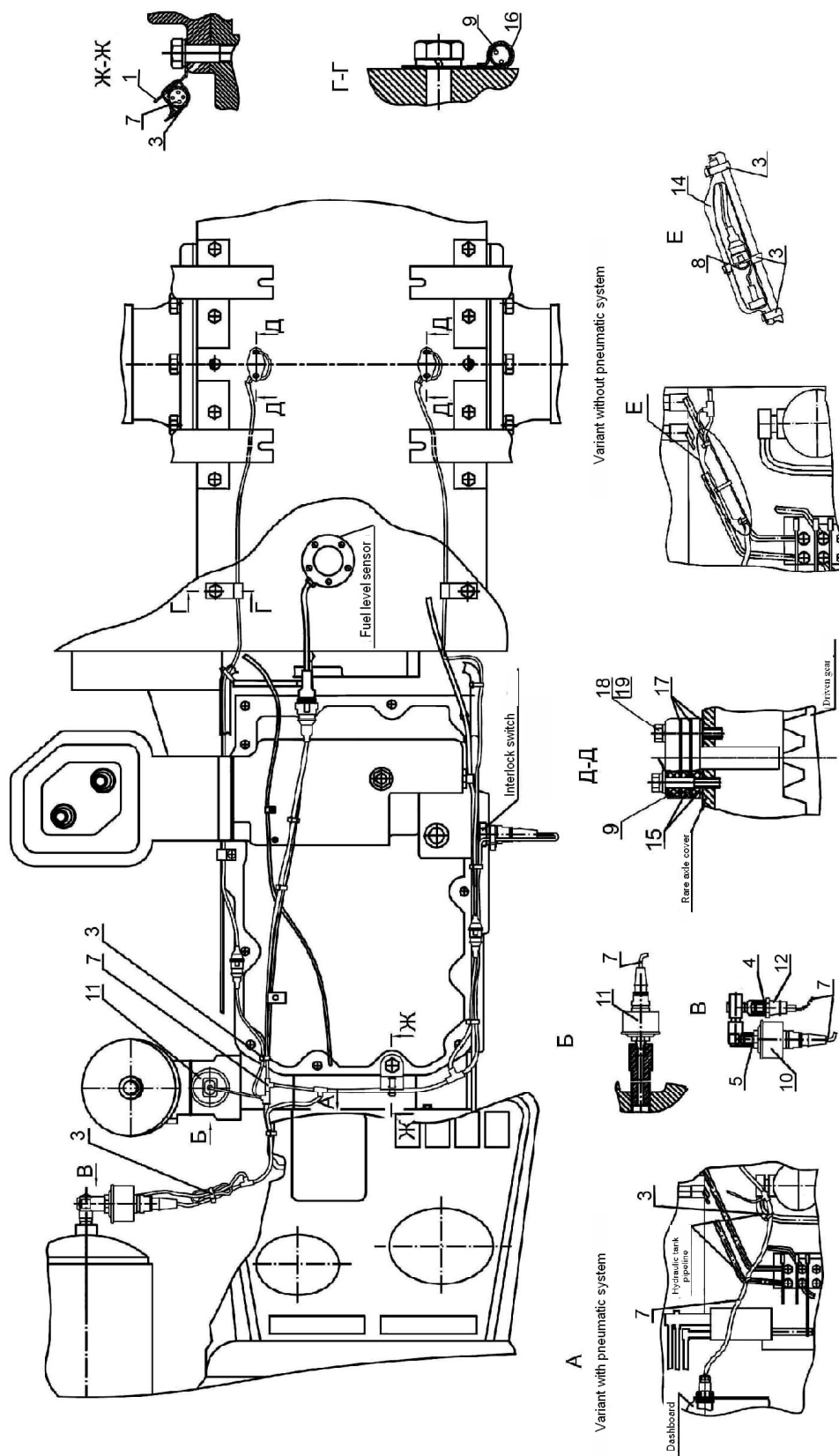


Fig. 37.2 Electrical equipment of transmission

**Note to Fig. 37.1**

| Designation       | Fig. | Note                             |
|-------------------|------|----------------------------------|
| 1221-3700040-Б-04 | 37.2 | Complete version                 |
| 1221-3700040-Б-06 | 37.2 | Version without pneumatic system |

**Group 37. Electrical equipment**  
**Subgroup 3700. Electrical equipment of transmission**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty<br>1221-3700040-Б- |                    | Name                          |
|-------------|--------|------------------------------|-------------------------|--------------------|-------------------------------|
|             |        |                              | 04                      | 06                 |                               |
| <b>37.2</b> | 1      | 80-3723016                   | 1                       | 1                  | Bracket                       |
|             | 3      | 80-3723045-01                | 16                      | 18                 | Collar                        |
|             | 4      | 85-1702051                   | 1                       | -                  | Washer                        |
|             | 5      | Д18-055-А                    | 1                       | -                  | O-ring                        |
|             | 7      | 1221.4-3724317-Б             | 1                       | 1                  | Harness                       |
|             | 8      | 80-3724002-Б                 |                         | 1                  | Cable                         |
|             | 9      | 3843.15                      | 2                       | 2                  | Rpm sensor                    |
|             | 10     | 3829.20                      | 1                       | -                  | Air pressure sensor           |
|             | 11     | 3829.30                      | 1                       | 1                  | Gear box oil pressure sensor  |
|             | 12     | 3829.25                      | 1                       | -                  | Air pressure emergency sensor |
|             | 14     | 305-TB-40-35                 | -                       | 1                  | Pipe                          |
|             | 15     | 1522-3843002                 | 4                       | 4                  | Gasket                        |
|             | 16     | 822-3723001                  | 2                       | 2                  | Joke                          |
|             | 17     | 822-3723001                  | 14 maximum<br>Q-ty      | 14 maximum<br>Q-ty | Gasket                        |
|             | 18     | M8x40                        | 4                       | 4                  | Bolt                          |
|             | 19     | 8T                           | 4                       | 4                  | Washer                        |



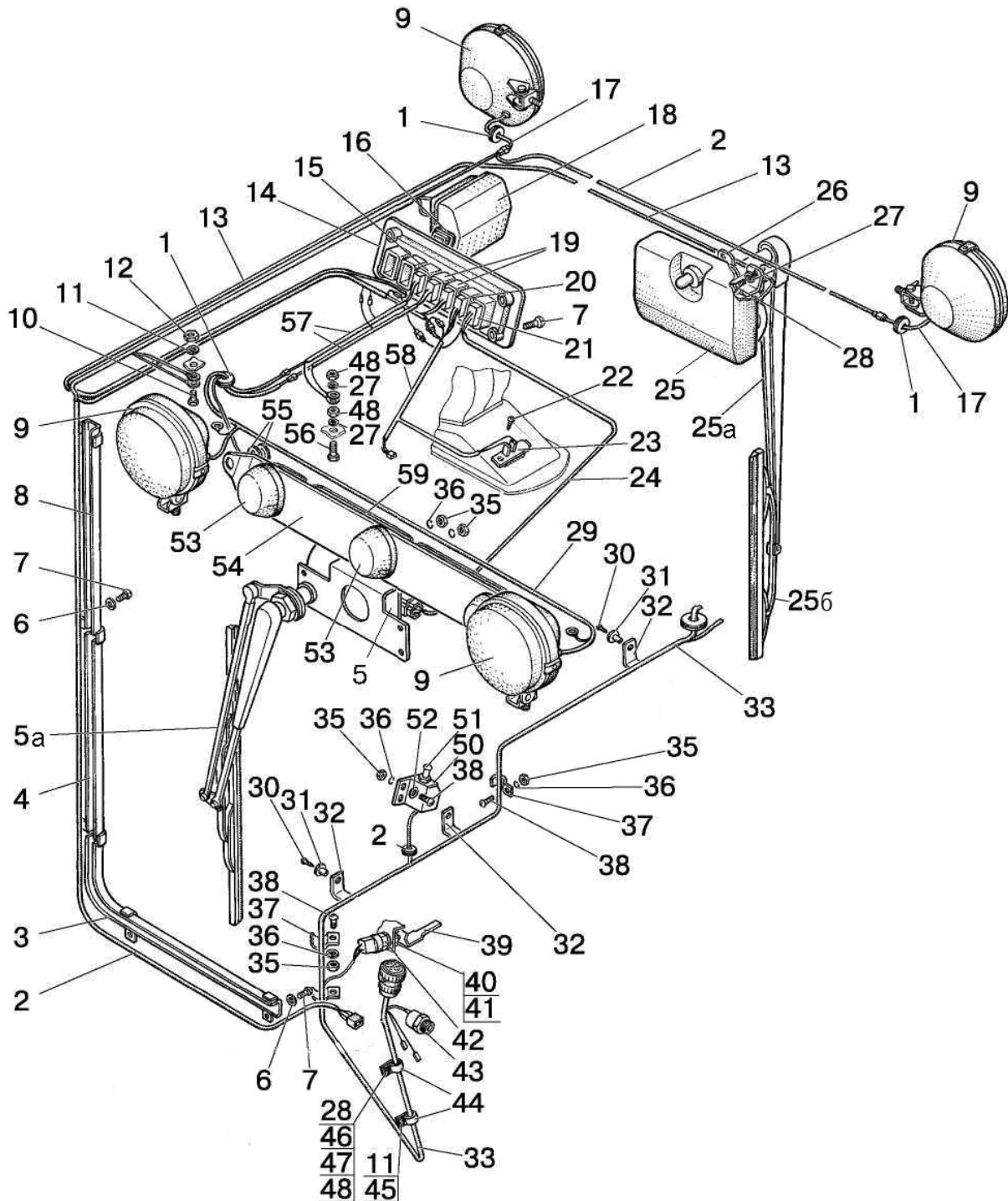


Fig. 37.3. Cabin electrical equipment

**Group 37. Electrical equipment**  
**Subgroup 3700. Cabin electrical equipment**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                             |
|-------------|--------|------------------------------|------|----------------------------------|
| <b>37.3</b> | 1      | 70-3723042-01                | 4    | Bushing                          |
|             | 2      | 80-3724351-Г1                | 1    | Harness                          |
|             | 3      | 80-3723015                   | 1    | Duct                             |
|             | 4      | 80-3723020                   | 1    | Duct                             |
|             | 5      | 5205.10                      | 1    | Parallel-motion windscreen wiper |
|             | 5a     | 5205.25                      | 1    | Brush with lever 660/600         |
|             | 6      | ШЧ 6                         | 5    | Washer                           |
|             | 7      | BM6x12                       | 9    | Screw                            |
|             | 8      | 80-3723010                   | 1    | Duct                             |
|             | 9      | 8724.31.06                   | 4    | Working light                    |
|             | 10     | M8x14                        | 1    | Bolt                             |
|             | 11     | ШП 8                         | 1    | Washer                           |
|             | 12     | M8                           | 1    | Nut                              |
|             | 13     | 80B-3724310-14               | 1    | Cable                            |
|             | 14     | 80-3801342                   | 1    | Shield                           |
|             | 15     | 3710.40                      | 1    | Roadtrain indicator switch       |
|             | 16     | 80-3801327                   | 2    | Blind plug                       |
|             | 17     | 80-3724035-Б                 | 2    | Cable                            |
|             | 18     | 3714.10                      | 1    | Cabin dome light 105x95          |
|             | 19     | 3710.30                      | 2    | Working lights switch            |
|             | 20     | 3709.15                      | 1    | Fan switch                       |
|             | 21     | 3709.25                      | 1    | Windscreen wiper switch          |
|             | 22     | 4x10                         | 1    | Screw                            |
|             | 23     | 11.3729                      | 1    | Additional resistance            |
|             | 24     | 80B-3724010                  | 1    | Harness                          |
|             | 25     | 5205.20                      | 1    | Windscreen wiper                 |
|             | 25a    | 5205.30                      | 1    | Windscreen wiper lever 420       |
|             | 25б    | 5205.35                      | 1    | Windscreen wiper blade 460       |
|             | 26     | 80-5205031                   | 1    | Bracket                          |
|             | 27     | ШП 6                         | 5    | Washer                           |
|             | 28     | M6x16                        | 2    | Bolt                             |
|             | 29     | 80-3724232-Б                 | 1    | Harness                          |
|             | 30     | 2-4x16                       | 4    | Male screw                       |
|             | 31     | A37.10.031                   | 4    | Threaded rivet nut               |
|             | 32     | 85-3723041-01                | 4    | Joke                             |
|             | 33     | 80-3724300-Г1                | 1    | Harness                          |
|             | 35     | M5                           | 11   | Nut                              |
|             | 36     | ШП 5                         | 11   | Washer                           |
|             | 37     | 80-3723038                   | 3    | Joke                             |
|             | 38     | BM5x16                       | 3    | Screw                            |
|             | 39     | 85-3710032                   | 1    | Lever                            |
|             | 40     | 85-3710025                   | 1    | Nut                              |
|             | 41     | 14 Л                         | 1    | Washer                           |
|             | 42     | 3720.10                      | 1    | Stop signal switch               |
|             | 43     | 3829.15                      | 1    | Air pressure emergency sensor    |
|             | 44     | 1321-8700029                 | 2    | Clamp                            |
|             | 45     | BM8x25                       | 1    | Screw                            |
|             | 46     | BM6x25                       | 1    | Screw                            |
|             | 47     | ШЧ 8                         | 1    | Washer                           |
|             | 48     | M6                           | 3    | Nut                              |

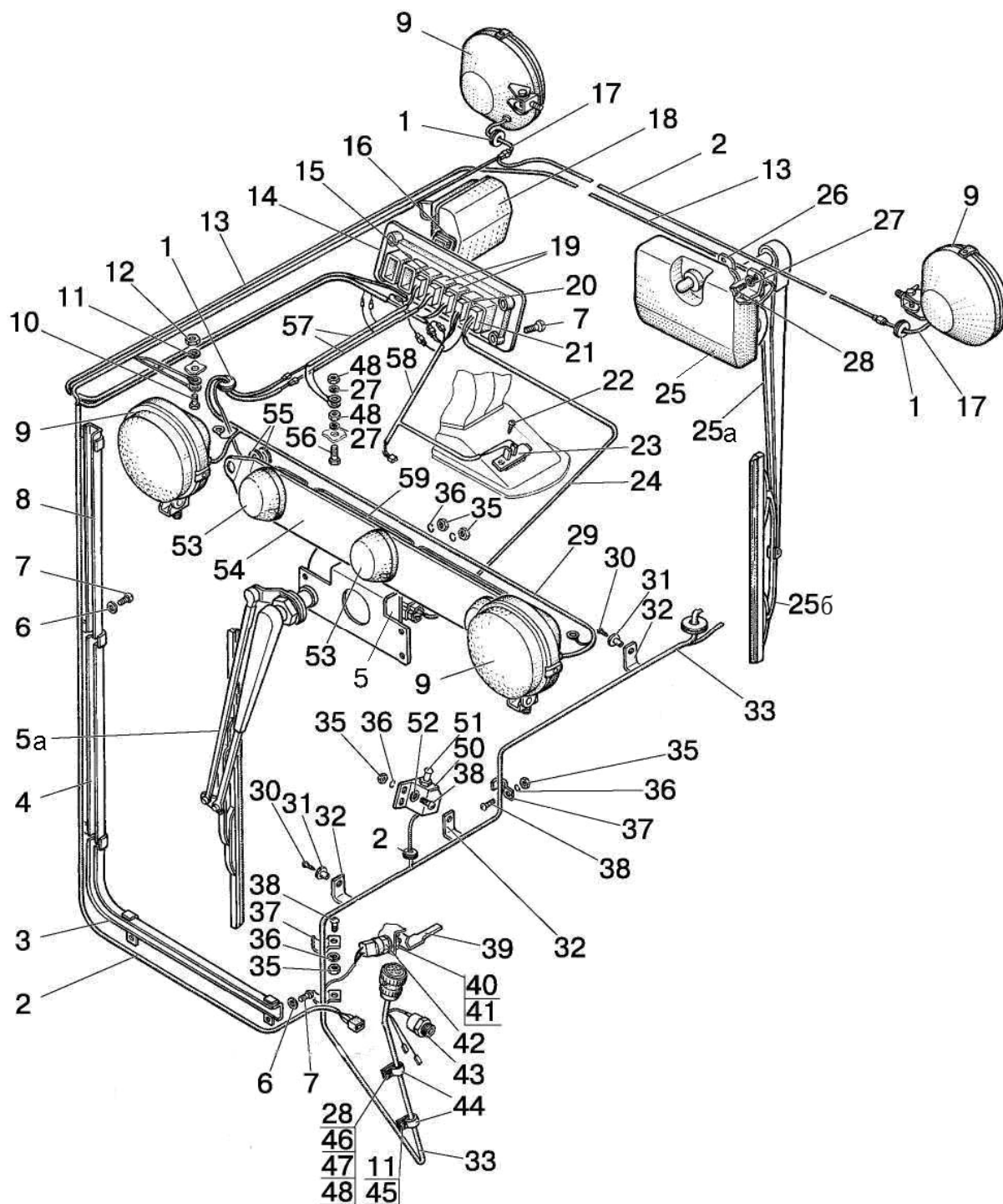


Fig. 37.3. Cabin electrical equipment

**Group 37. Electrical equipment**  
**Subgroup 3700. Cabin electrical equipment**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                    |
|-------------|--------|------------------------------|------|-------------------------|
| <b>37.3</b> | 50     | 80-3710012                   | 1    | Bracket                 |
|             | 51     | 3710.60                      | 1    | Hand brake light switch |
|             | 52     | ШЧ 5                         | 2    | Washer                  |
|             | 53     | 3738.10                      | 3    | Roadtrain lamp          |
|             | 54     | 80-3738001                   | 1    | Bracket                 |
|             | 55     | 80-6708904                   | 4    | Gasket                  |
|             | 56     | M6x20                        | 1    | Bolt                    |
|             | 57     | 80-3724231-Б                 | 2    | Harness                 |
|             | 58     | 80-3724353-Г                 | 1    | Harness                 |
|             | 59     | 80-3724233-Б                 | 1    | Harness                 |

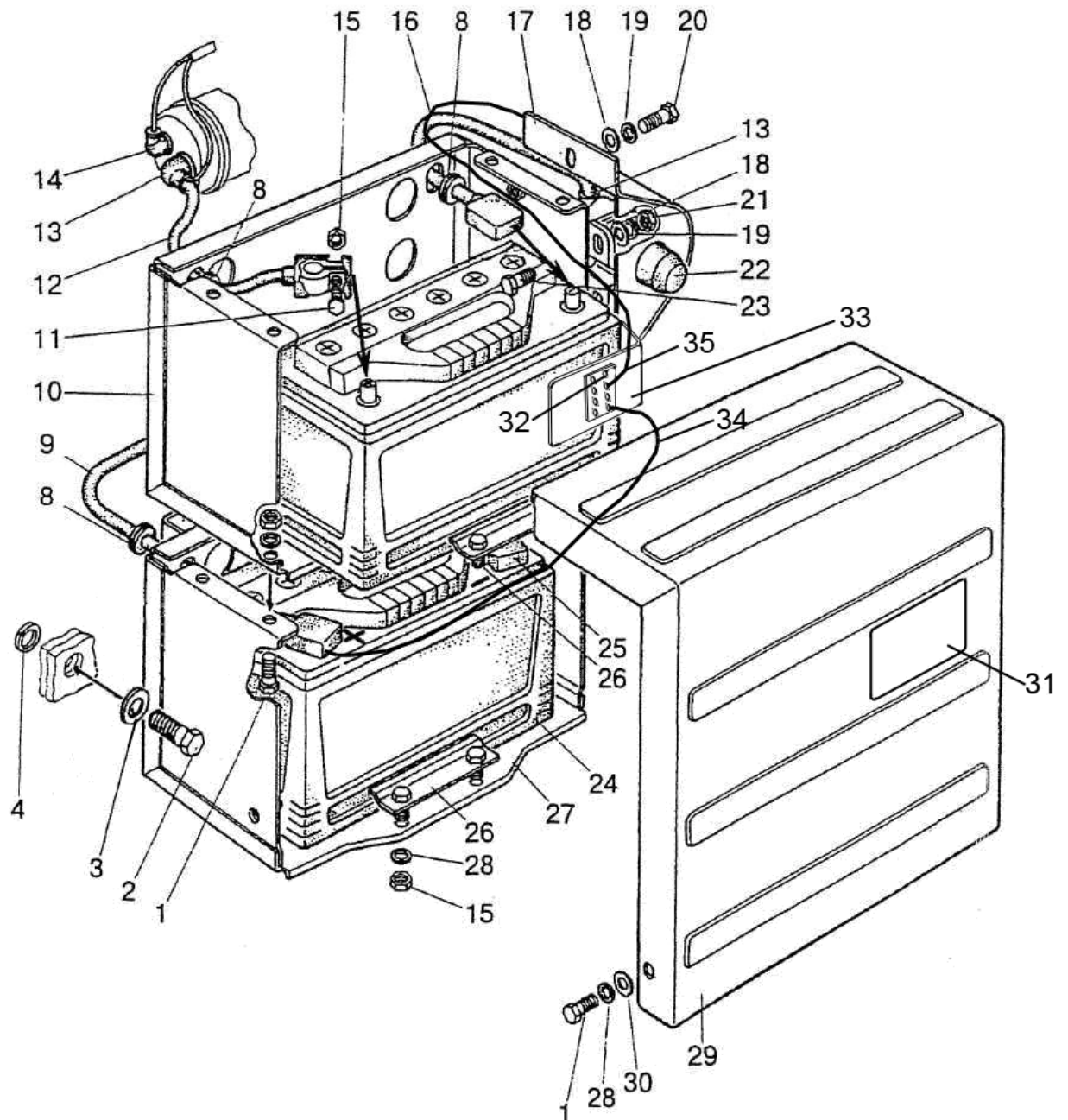


Fig. 37.4 Storage battery installation

**Group 37 Electrical equipment**  
**Subgroup 3724. Storage battery installation**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                       |
|--------|--------|------------------------------|------|----------------------------|
| 37.4   | 1      | M8x20                        | 6    | Bolt                       |
|        | 2      | M16x40                       | 2    | Bolt                       |
|        | 3      | ШЧ16                         | 2    | Washer                     |
|        | 4      | ШП16                         | 2    | Washer                     |
|        | 8      | 50-4607064                   | 4    | Bushing                    |
|        | 9      | 1221B-3724044B               | 1    | Cable                      |
|        | 10     | 1221B-3703010-02             | 1    | Container                  |
|        | 11     | M8x30                        | 4    | Bolt                       |
|        | 12     | 1221B-3724041                | 1    | Cable                      |
|        | 13     | TM-59-6000-38                | 3    | Cap                        |
|        | 14     | 54.24.445-Б                  | 2    | Cap                        |
|        | 15     | M8                           | 12   | Nut                        |
|        | 16     | 923-3724042                  | 1    | Cable                      |
|        | 17     | 1522-3703025                 | 1    | Housing                    |
|        | 18     | ШЧ6                          | 4    | Washer                     |
|        | 19     | ШП6                          | 4    | Washer                     |
|        | 20     | M6X16                        | 2    | Bolt                       |
|        | 21     | M6                           | 2    | Nut                        |
|        | 22     | 3737.15                      | 1    | Remote 24 V battery switch |
|        | 23     | M6x20                        | 2    | Bolt                       |
|        | 24     | 3703.26                      | 2    | 12/120 storage battery     |
|        | 25     | 1221B-3724075                | 1    | Cable                      |
|        | 26     | 80B-3703020                  | 2    | Clamp                      |
|        | 27     | 1221B-3703010                | 1    | Container                  |
|        | 28     | ШЧ8                          | 10   | Washer                     |
|        | 29     | 1221B-3703020-01             | 1    | Housing                    |
|        | 30     | ШЧ8                          | 2    | Washer                     |
|        | 31     | 822-3801341-Б                | 1    | Shield                     |
|        | 32     | 3722.55                      | 1    | Fuse block                 |
|        | 33     | 1222.4-3722001               | 1    | Bracket                    |
|        | 34     | 920-3724368-Б                | 1    | Cable                      |
|        | 35     | 1222.4-3724045               | 1    | Cable                      |



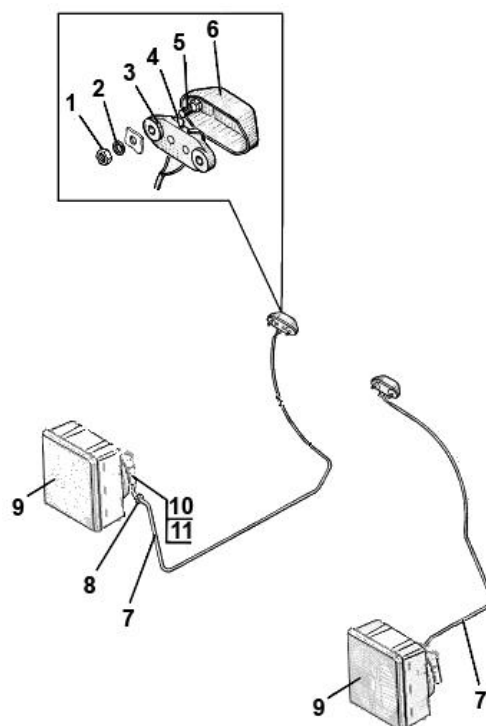


Fig. 37.5. Head lamps installation

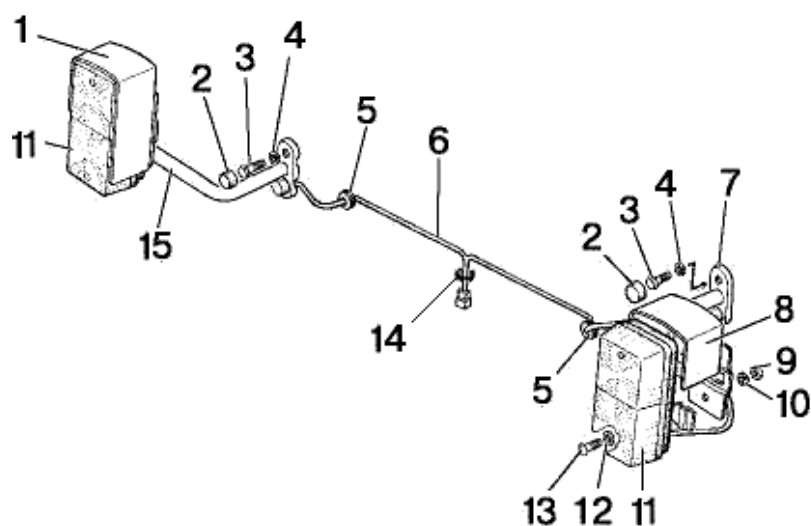


Fig. 37.6. Front lights installation

**Group 37. Electrical equipment**  
**Subgroup 3723. Head lamps installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                            |
|-------------|--------|------------------------------|------|---------------------------------|
| <b>37.5</b> | 1      | M5                           | 6    | Nut                             |
|             | 2      | ШП 5                         | 4    | Washer                          |
|             | 3      | 3723.15                      | 2    | Connecting double-contact panel |
|             | 4      | 80-3723056                   | 4    | Plate                           |
|             | 5      | BM5x22                       | 4    | Screw                           |
|             | 6      | 70-3723036-01                | 2    | Cover                           |
|             | 7      | 80-3724025-Г                 | 2    | Harness                         |
|             | 8      | 70-3723042-01                | 2    | Bushing                         |
|             | 9      | 087101000                    | 1    | Head lamp                       |
|             | 10     | M6                           | 8    | Nut                             |
|             | 11     | ШП 6                         | 8    | Washer                          |

**Group 37. Electrical equipment**  
**Subgroup 3723. Front lights installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                           |
|-------------|--------|------------------------------|------|--------------------------------|
| <b>37.6</b> | 1      | 85-3712045                   | 1    | Housing                        |
|             | 2      | A30.04.017-01                | 4    | Cap                            |
|             | 3      | M8x20                        | 4    | Bolt                           |
|             | 4      | ШП 8                         | 4    | Washer                         |
|             | 5      | 70-3723042-01                | 2    | Bushing                        |
|             | 6      | H80-3724131                  | 1    | Harness                        |
|             | 7      | H80-3712040                  | 1    | Bracket                        |
|             | 8      | 85-3712045-01                | 1    | Housing                        |
|             | 9      | M                            | 4    | Nut                            |
|             | 10     | ШП 6                         | 4    | Washer                         |
|             | 11     | 3712.10                      | 2    | Front light with side repeater |
|             | 12     | ШЧ 6                         | 4    | Washer                         |
|             | 13     | BM6x18                       | 4    | Screw                          |
|             | 14     | 70-3723042-02                | 1    | Bushing                        |
|             | 15     | 80-3723040                   | 1    | Bracket                        |



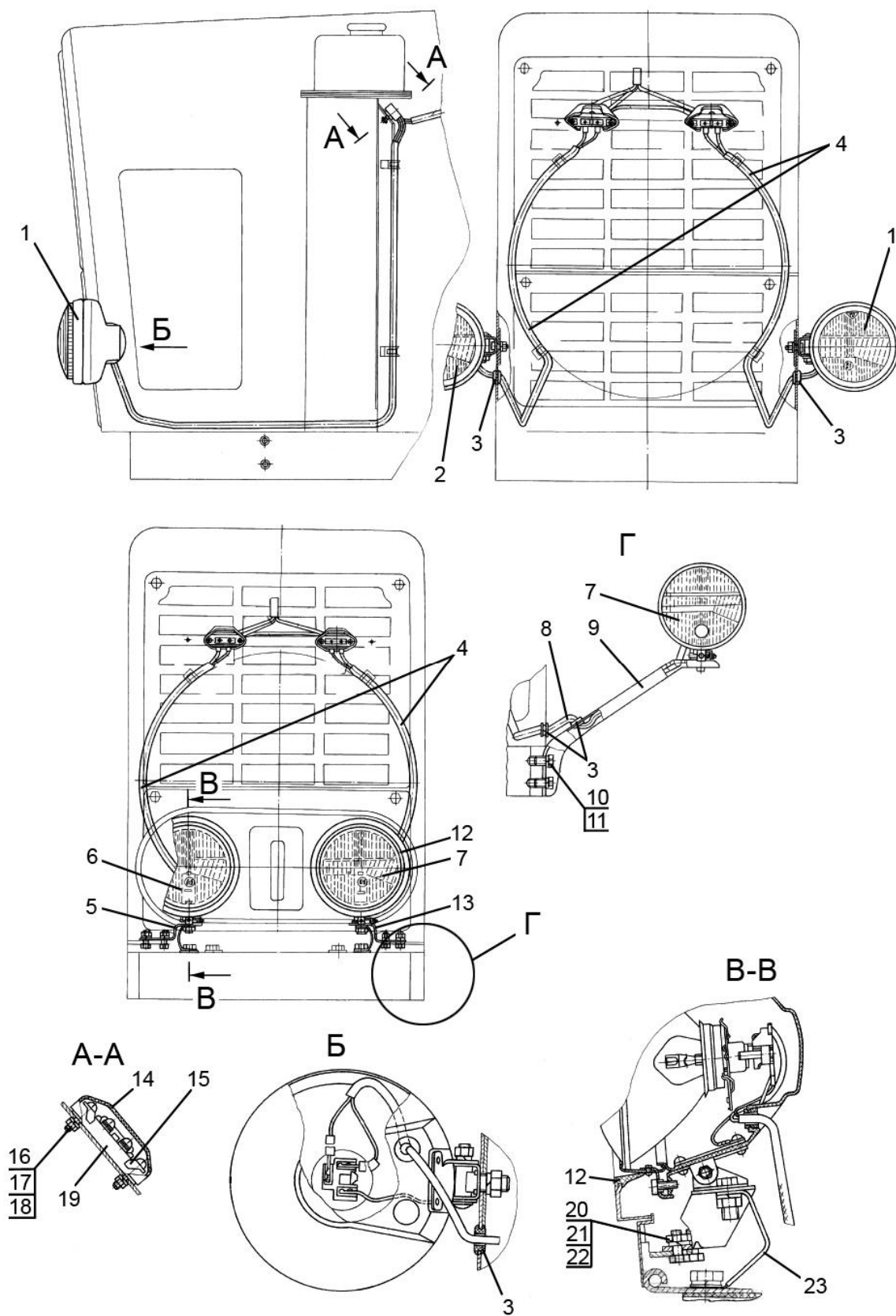


Fig. 37.7 Head lamps installation

**Note to Fig. 37.7**

| Designation    | Note                       |
|----------------|----------------------------|
| 80-3700020B    | Remote head lamps          |
| 80-3700020B-01 | Built-in head lamps        |
| 80-3700020B-02 | Bracket-mounted head lamps |

**Group 37. Electrical equipment**  
**Subgroup 3723. Head lamps installation**

| Fig.No      | Pos.No | Assembly unit or part number                          | Q-ty<br>80-3700020B- |    |    | Name                    |
|-------------|--------|-------------------------------------------------------|----------------------|----|----|-------------------------|
|             |        |                                                       | -                    | 01 | 02 |                         |
| <b>37.7</b> |        | 80-3700020B or<br>80-3700020B-01 or<br>80-3700020B-02 | 1                    | 1  | 1  | Head lamps installation |
|             | 1      | 8703.302/01-02                                        | 1                    |    |    | Head lamp               |
|             | 2      | 8703.302/1-02                                         | 1                    |    |    | Head lamp               |
|             | 3      | 70-3723042-01                                         | 2                    |    | 4  | Bushing                 |
|             | 4      | 80-3724025B-01                                        | 2                    | 2  |    | Harness                 |
|             | 5      | 80-3711013-02                                         |                      | 1  |    | Bracket                 |
|             | 6      | 8703.302/1-01                                         |                      | 1  | 1  | Head lamp               |
|             | 7      | 8703.302/01-01                                        |                      | 1  | 1  | Head lamp               |
|             | 8      | 80X-3724025                                           |                      |    | 2  | Harness                 |
|             | 9      | 80-3711010                                            |                      |    | 2  | Bracket                 |
|             | 10     | 50X-8406037                                           |                      |    | 4  | Bolt                    |
|             | 11     | ШП 16                                                 |                      |    | 4  | Washer                  |
|             | 12     | 50-3711014                                            |                      | 2  |    | Seal                    |
|             | 13     | 80-3711013-03                                         |                      | 1  |    | Bracket                 |
|             | 14     | 70-3723036-01                                         | 2                    | 2  | 2  | Cover                   |
|             | 15     | 80-3723056                                            | 4                    | 4  | 4  | Plate                   |
|             | 16     | BM5x22                                                | 4                    | 4  | 4  | Screw                   |
|             | 17     | M5                                                    | 4                    | 4  | 4  | Nut                     |
|             | 18     | ШП 5                                                  | 4                    | 4  | 4  | Washer                  |
|             | 19     | П14.3723                                              | 2                    | 2  | 2  | Panel                   |
|             | 20     | M8x16                                                 |                      | 4  |    | Bolt                    |
|             | 21     | M8                                                    |                      | 4  |    | Nut                     |
|             | 22     | ШП 8                                                  |                      | 4  |    | Washer                  |
|             | 23     | 80-3724016                                            |                      | 2  |    | Cable                   |

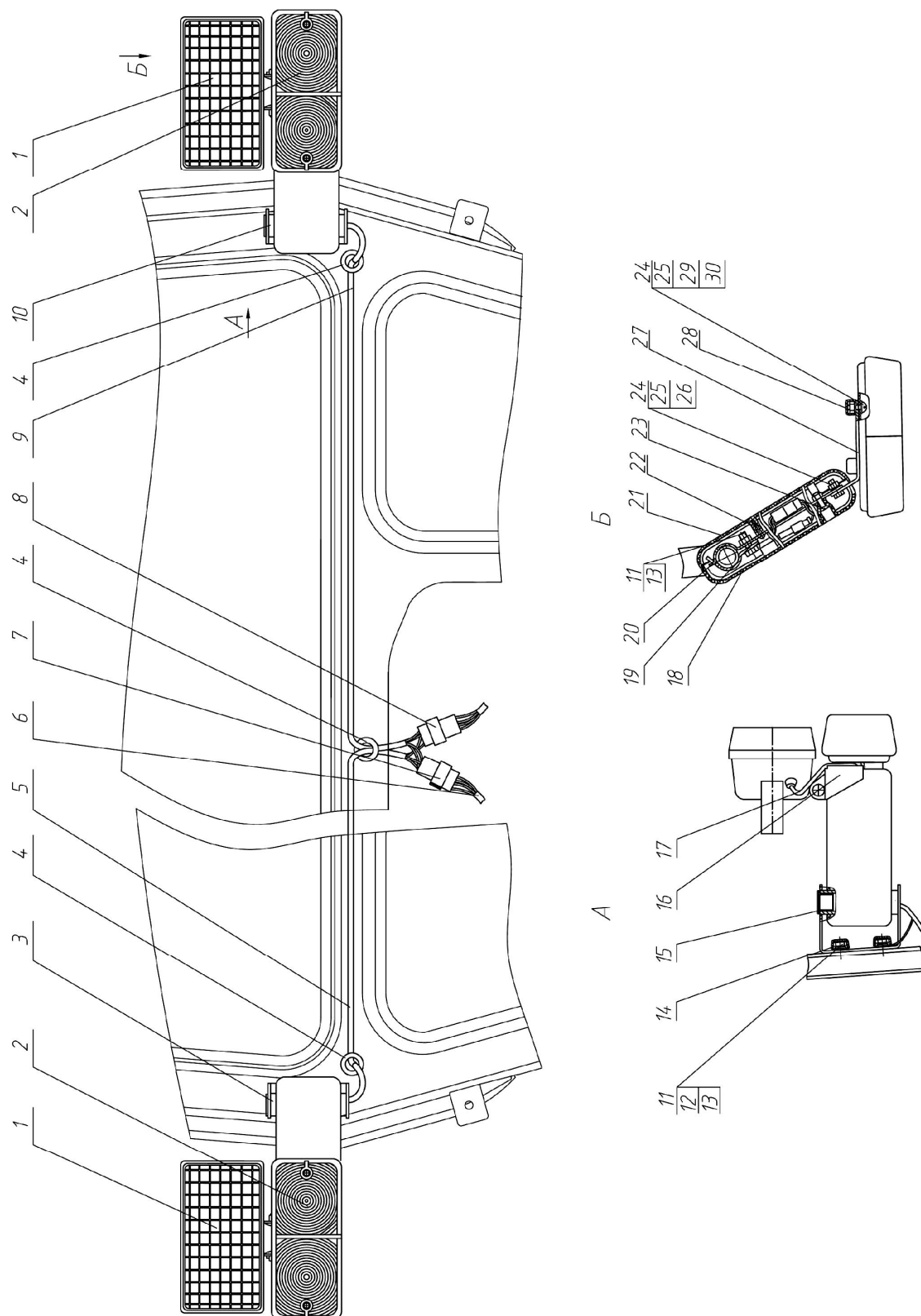


Fig. 37.8. Front lights and head lamps installation

**Group 37. Electrical equipment**  
**Subgroup 3724. Front lights and head lamps installation**

| Fig.No      | Pos.No | Assembly unit or part number       | Q-ty | Name                           |
|-------------|--------|------------------------------------|------|--------------------------------|
| <b>37.8</b> |        | <b>82П-3700025-02</b> *            |      | Front lights installation      |
|             |        | <b>82П-3700025-03</b> **           |      |                                |
|             | 1      | 8724.304/011 **                    | 2    | Working light                  |
|             | 2      | 3712.10                            | 2    | Front light with side repeater |
|             | 3      | 925-3712025-01                     | 1    | Bracket                        |
|             | 4      | 70-3723042-02                      | 3    | Bushing                        |
|             | 5      | 920-3724132-A                      | 1    | Harness                        |
|             | 6      | 92П-3724142 **                     | 1    | Harness                        |
|             | 7      | 520604                             | 1    | Male socket                    |
|             | 8      | 620604                             | 1    | Female socket                  |
|             | 9      | 920-3724131-A                      | 1    | Harness                        |
|             | 10     | 925-3712025                        | 1    | Bracket                        |
|             | 11     | M8-6gx20.88.35.019<br>GOST 7796-70 | 8    | Bolt                           |
|             | 12     | C 8.01.019 GOST 6958-78            | 4    | Washer                         |
|             | 13     | 8T OST 37.001.115-75               | 8    | Washer                         |
|             | 14     | A30.04.017-01                      | 4    | Cap                            |
|             | 15     | 36-4603079-B2                      | 2    | Blind plug                     |
|             | 16     | 920-3711011 **                     | 2    | Bracket                        |
|             | 17     | 923-3724142 **                     | 2    | Harness                        |
|             | 18     | 920-3712021                        | 2    | Housing                        |
|             | 19     | 920-3712013                        | 2    | Bracket                        |
|             | 20     | 920-3712010                        | 2    | Bracket                        |
|             | 21     | 920-3712022                        | 2    | Housing                        |
|             | 22     | 4x10.019                           | 8    | Male screw                     |
|             | 23     | B.M6-6gx20.58.019 GOST<br>17475-80 | 4    | Screw                          |
|             | 24     | M6-6gx18.88.35.019<br>GOST 7798-70 | 8    | Bolt                           |
|             | 25     | M6-6H.6.019 GOST 5915-70           | 8    | Nut                            |
|             | 26     | 6T OST 37.001.115-75               | 8    | Washer                         |
|             | 27     | 920-3712012                        | 2    | Bracket                        |
|             | 28     | A30.04.017                         | 4    | Cap                            |
|             | 29     | B.M6-6gx18.58.019 GOST<br>17473-80 | 4    | Screw                          |
|             | 30     | C 6.01.019 GOST 11371-78           | 4    | Washer                         |

\* Without working lights.

\*\* With working lights mounted on front lights' brackets.

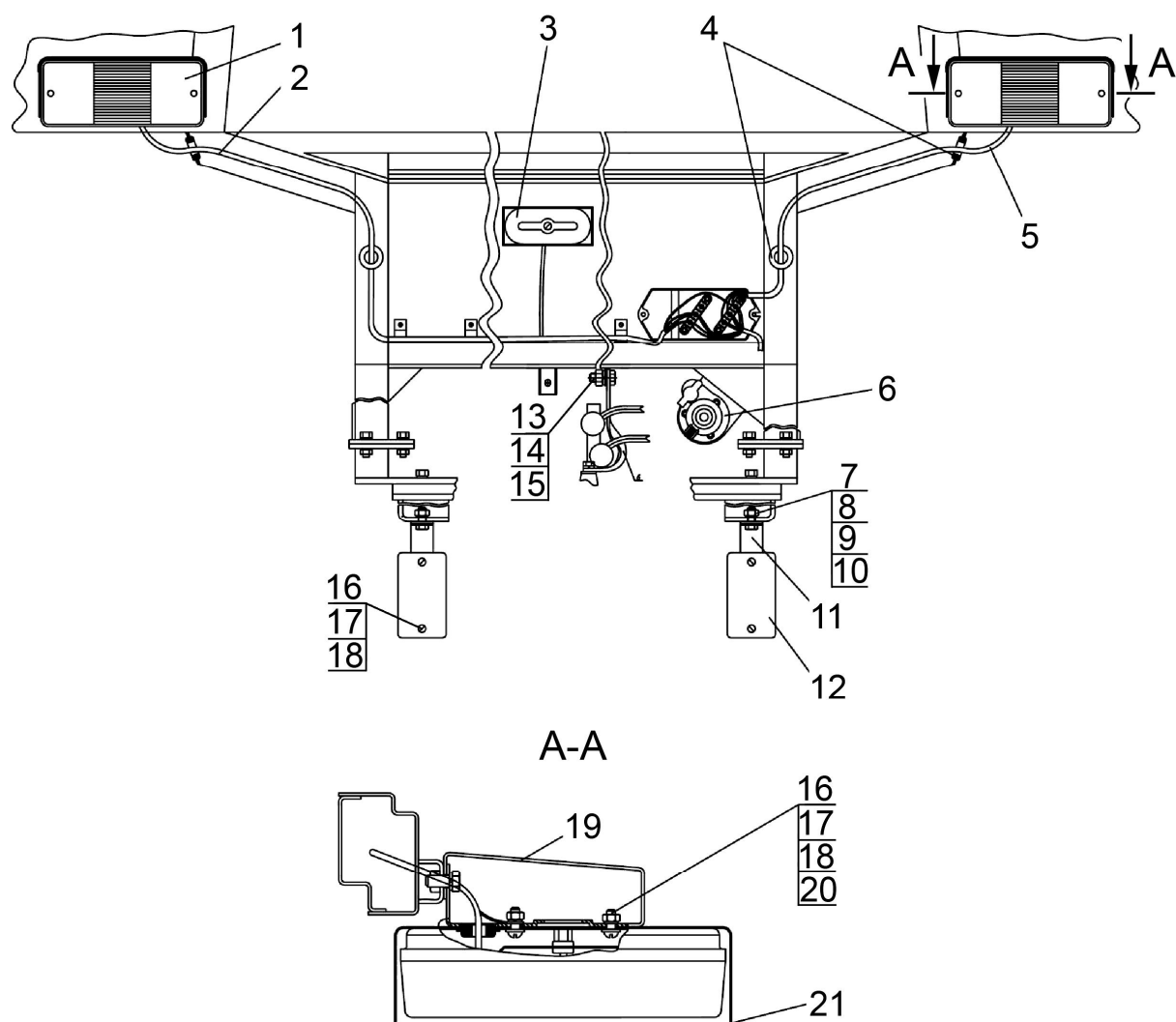


Fig. 37.9. Installation of back lights

**Group 37. Electrical equipment**  
**Subgroup 3724. Installation of back lights**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                          |
|-------------|--------|------------------------------|------|-------------------------------|
| <b>37.9</b> | 1      | 3716.10                      | 2    | Back light                    |
|             | 2      | 85-3724163                   | 1    | Harness (with metal facing)   |
|             |        | 920-3724163                  | 1    | Harness (with plastic facing) |
|             | 3      | 3717.10                      | 1    | Number plate light            |
|             | 4      | 70-3723042-02                | 4    | Bushing                       |
|             | 5      | 85-3724162                   | 1    | Harness (with metal facing)   |
|             |        | 920-3724162                  | 1    | Harness (with plastic facing) |
|             | 6      | 3723.10                      | 1    | Trailer socket                |
|             | 7      | M10x25                       | 2    | Bolt                          |
|             | 8      | M10                          | 2    | Nut                           |
|             | 9      | ШЧ 10                        | 2    | Washer                        |
|             | 10     | ШП 10                        | 2    | Washer                        |
|             | 11     | Φ50-3731011                  | 2    | Bracket                       |
|             | 12     | 3731.10                      | 2    | Reflector                     |
|             | 13     | M12x25                       | 1    | Bolt                          |
|             | 14     | M12                          | 1    | Nut                           |
|             | 15     | ШП 12                        | 1    | Washer                        |
|             | 16     | BM6x18                       | 8    | Screw                         |
|             | 17     | M6                           | 8    | Nut                           |
|             | 18     | ШП 6                         | 8    | Washer                        |
|             | 19     | 85-3716012                   | 2    | Bracket                       |
|             | 20     | ШЧ 6                         | 2    | Washer                        |
|             | 21     | 85-3716015                   | 2    | Housing                       |

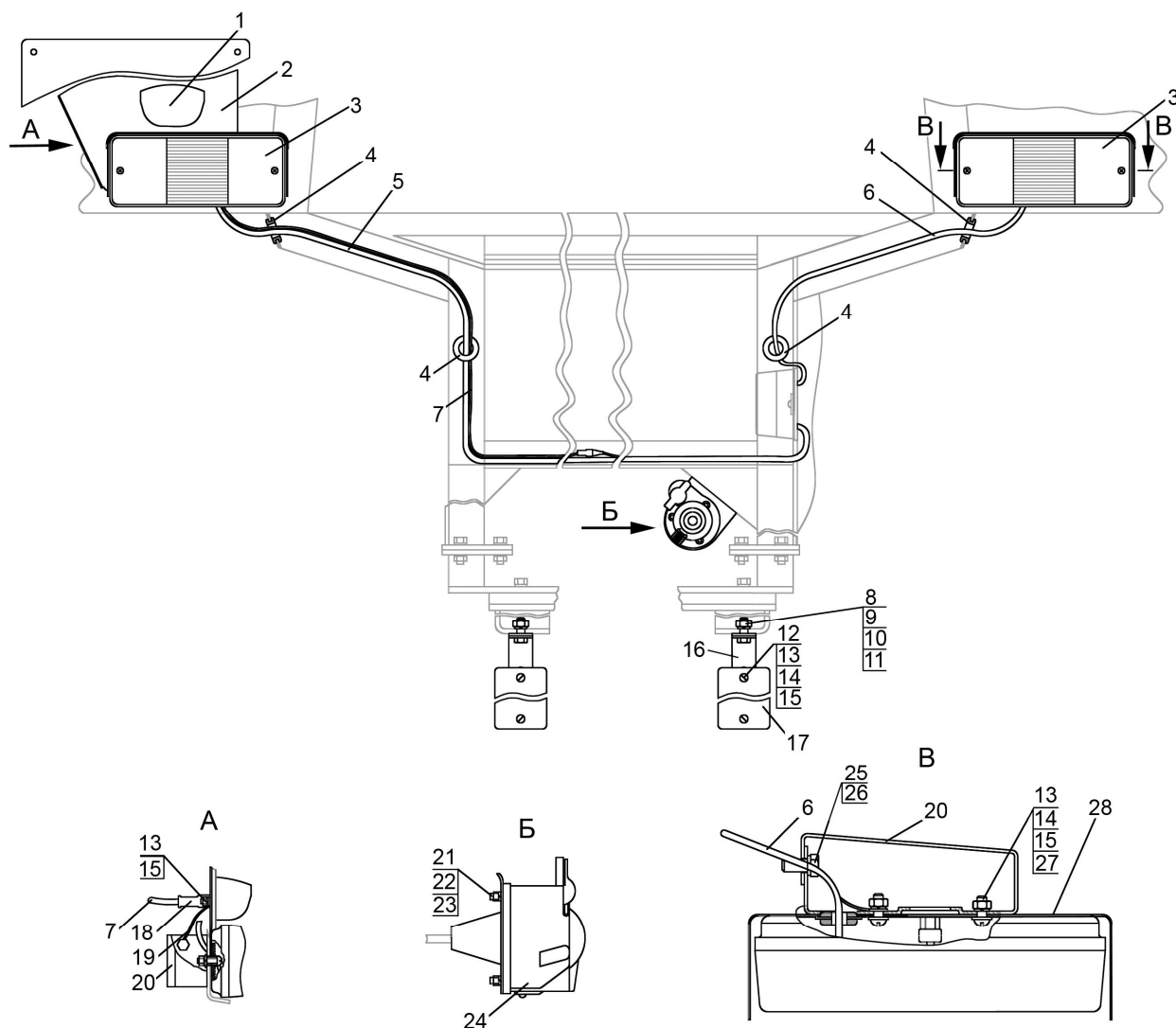


Fig. 37.10. Installation of back lights

**Group 37. Electrical equipment**  
**Subgroup 3724. Installation of back lights**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                               |
|--------------|--------|------------------------------|------|------------------------------------|
| <b>37.10</b> |        | 82П-3700060                  | 1    | Installation of back lights (1-28) |
|              | 1      | 112.00.05-01                 | 1    | Number plate light                 |
|              | 2      | 923-3716011                  | 1    | Bracket                            |
|              | 3      | 7303.3716                    | 2    | Back light                         |
|              | 4      | 70-3723042-01                | 4    | Bushing                            |
|              | 5      | 85-3724163                   | 1    | Harness                            |
|              | 6      | 85-3724162                   | 1    | Harness                            |
|              | 7      | 80-3724224                   | 1    | Cable                              |
|              | 8      | M10x25                       | 2    | Bolt                               |
|              | 9      | M10                          | 2    | Nut                                |
|              | 10     | ШЧ 10                        | 2    | Washer                             |
|              | 11     | ШП 10                        | 2    | Washer                             |
|              | 12     | BM6x16                       | 4    | Screw                              |
|              | 13     | M6                           | 10   | Nut                                |
|              | 14     | ШЧ 6                         | 8    | Nut                                |
|              | 15     | ШП 6                         | 10   | Washer                             |
|              | 16     | Φ50-3731011                  | 2    | Bracket                            |
|              | 17     | 3202.3731                    | 2    | Reflector                          |
|              | 18     | 70-3723035                   | 1    | Tip                                |
|              | 19     | 80-3724134                   | 1    | Cable                              |
|              | 20     | 85-3716012                   | 2    | Bracket                            |
|              | 21     | BM5x35                       | 3    | Screw                              |
|              | 22     | M5                           | 3    | Nut                                |
|              | 23     | ШП 5                         | 3    | Washer                             |
|              | 24     | P9-1                         | 1    | Socket                             |
|              | 25     | M8x16                        | 4    | Bolt                               |
|              | 26     | ШП 8                         | 4    | Washer                             |
|              | 27     | BM6x25                       | 4    | Screw                              |
|              | 28     | 85-3716015                   | 2    | Housing                            |



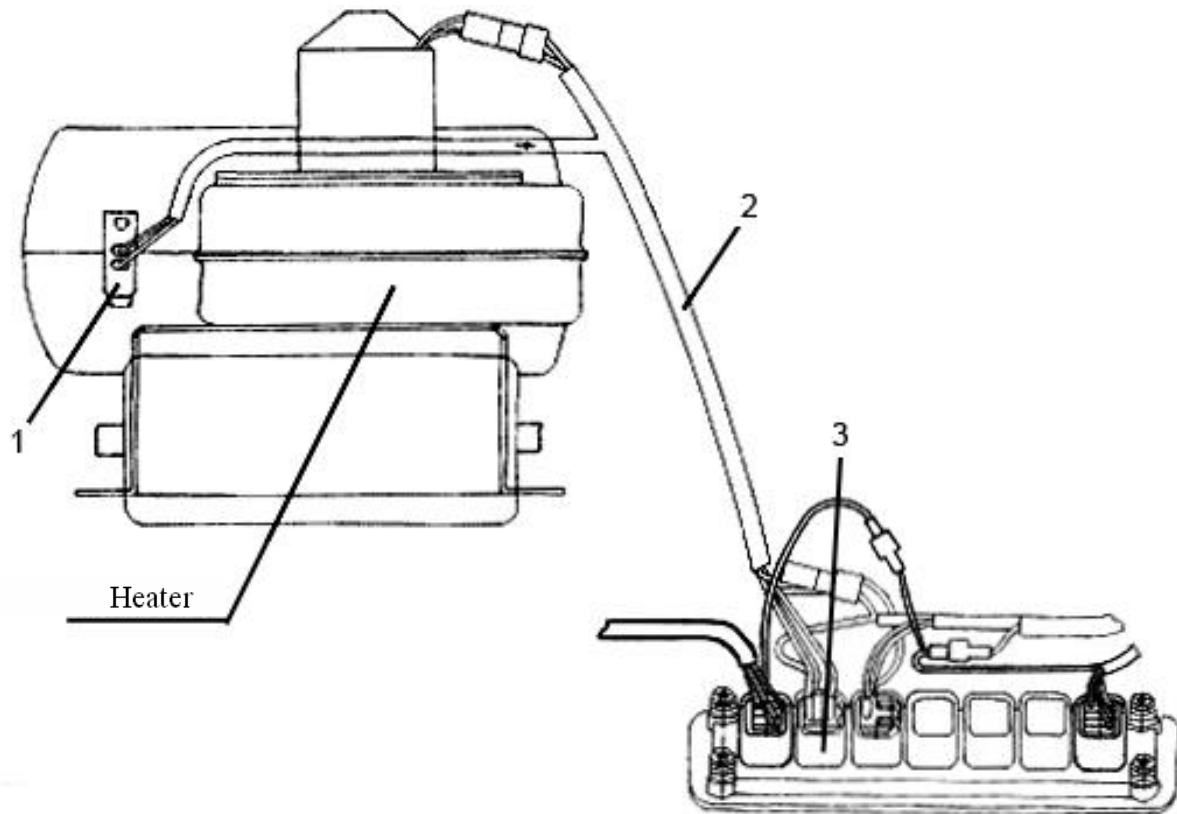


Fig. 37.11. Electrical equipment of heater

**Group 37. Electrical equipment**  
**Subgroup 3724. Electrical equipment of heater**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                |
|--------------|--------|------------------------------|------|---------------------|
| <b>37.11</b> | 1      | 11.3729                      | 1    | Additional resistor |
|              | 2      | 80-3724353                   | 1    | Harness             |
|              | 3      | П147М-04.11                  | 1    | Switch              |

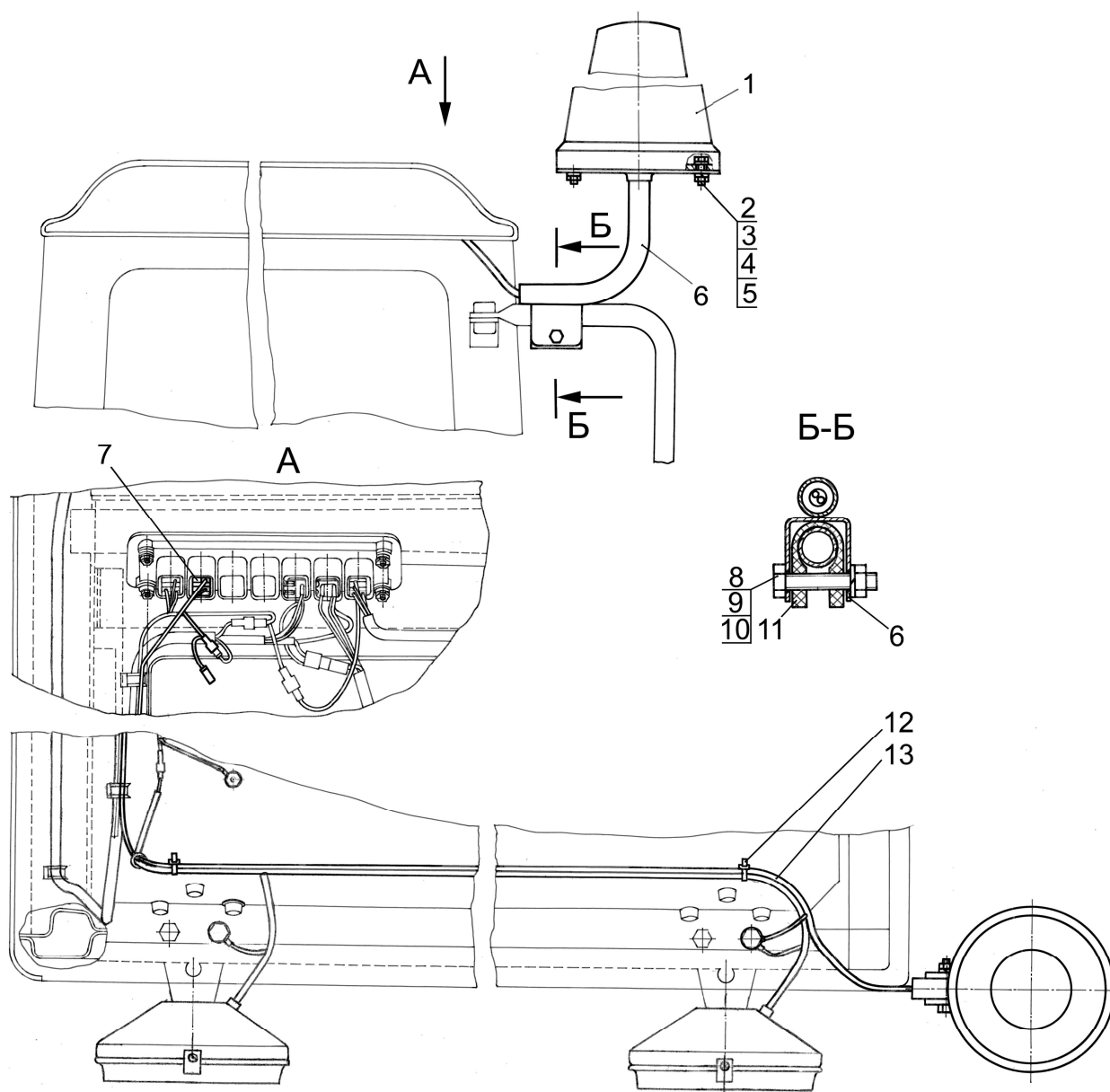


Fig. 37.12. Beacon installation

**Group 37. Electrical equipment**  
**Subgroup 3738. Beacon installation**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                       |
|--------|--------|------------------------------|------|----------------------------|
| 37.12  |        | 80-3738010                   | 1    | Beacon installation (1-13) |
|        | 1      | MC-2-12-0                    | 1    | Signal beacon              |
|        | 2      | M6x25                        | 3    | Bolt                       |
|        | 3      | M6                           | 3    | Nut                        |
|        | 4      | ШЧ 6                         | 3    | Washer                     |
|        | 5      | ШП 6                         | 3    | Washer                     |
|        | 6      | 320-3738005                  | 1    | Bracket                    |
|        | 7      | BK343M-01.88                 | 1    | Switch                     |
|        | 8      | M8x45                        | 1    | Bolt                       |
|        | 9      | M8                           | 1    | Nut                        |
|        | 10     | ШП 8                         | 1    | Washer                     |
|        | 11     | A30.04.051                   | 1    | Clamp                      |
|        | 12     | 80-3723045                   | 2    | Collar                     |
|        | 13     | 80-3724234                   | 1    | Harness                    |

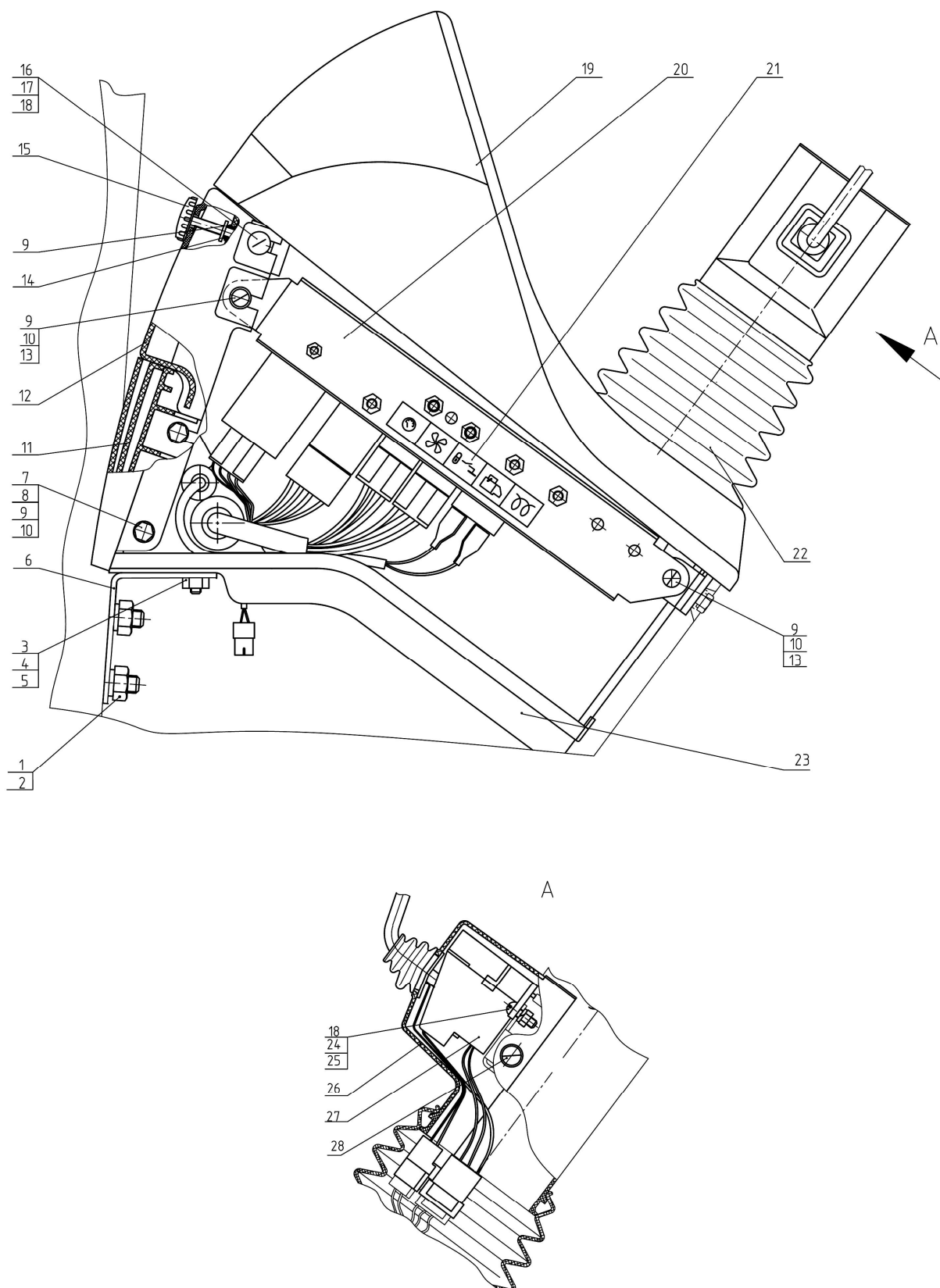


Fig.38.1 Dashboard

**Group 38. Dashboard  
Subgroup 3805. Dashboard**

| Fig.No      | Pos.No | Assembly unit or part number                  | Q-ty | Name              |
|-------------|--------|-----------------------------------------------|------|-------------------|
| <b>38.1</b> | 1      | M10-6H.6.019 GOST 5915-70                     | 2    | Nut               |
|             | 2      | 10 OT OST 37.001.115-75                       | 2    | Washer            |
|             | 3      | M8-6gx16.88.35.019                            | 2    | Bolt              |
|             | 4      | 8T OST 37.001.115-75                          | 2    | Washer            |
|             | 5      | C 8.01.019 GOST 11371-78                      | 1    | Washer            |
|             | 6      | 80-3805030                                    | 2    | Bracket           |
|             | 7      | M6-6gx16.88.35.019 GOST 7798-70               | 4    | Bolt              |
|             | 8      | M6-6H.6.019 GOST 5915-70                      | 18   | Nut               |
|             | 9      | C 6.01.019 GOST 11371-78                      | 10   | Washer            |
|             | 10     | 6T OST 37.001.115-75                          | 21   | Washer            |
|             | 11     | 826-3805045                                   | 1    | Wall              |
|             | 12     | 826-3805061                                   | 1    | Cover             |
|             | 13     | B.M6-6gx16.58.019 GOST 17473-80               | 4    | Screw             |
|             | 14     | 006-010-25-1-4 GOST 18829-73/<br>GOST 9833-73 | 2    | Ring              |
|             | 15     | 826-3805065                                   | 2    | Screw             |
|             | 16     | B.M5-6gx20.58.019 GOST 17473-80               | 2    | Screw             |
|             | 17     | C 5.01.019 GOST 6958-78                       | 2    | Washer            |
|             | 18     | 5T OST 37.001.115-75                          | 5    | Washer            |
|             | 19     | 826-3805021                                   | 1    | Shield            |
|             | 20     | 80-3805070                                    | 1    | Panel             |
|             | 21     | 826-3805025                                   | 1    | Instruction plate |
|             | 22     | 80-3805012-B                                  | 1    | Seal              |
|             | 23     | 80-3805029                                    | 1    | Seal              |
|             | 24     | B.M5-6gx16.58.019 GOST 17473-80               | 3    | Screw             |
|             | 25     | M5-6H.6.019 GOST 5927-70                      | 2    | Nut               |
|             | 26     | 80-3709023* or<br>80-3709023-B**              | 1    | Housing           |
|             | 27     | 3912.3769-01* or<br>ПКП-1А**                  | 1    | Underwheel switch |
|             | 28     | B2.M6-6gx16.58.05 GOST 17473-80               | 2    | Screw             |

\* With 3912.3769-01 switch

\*\* With ПКП-1А switch

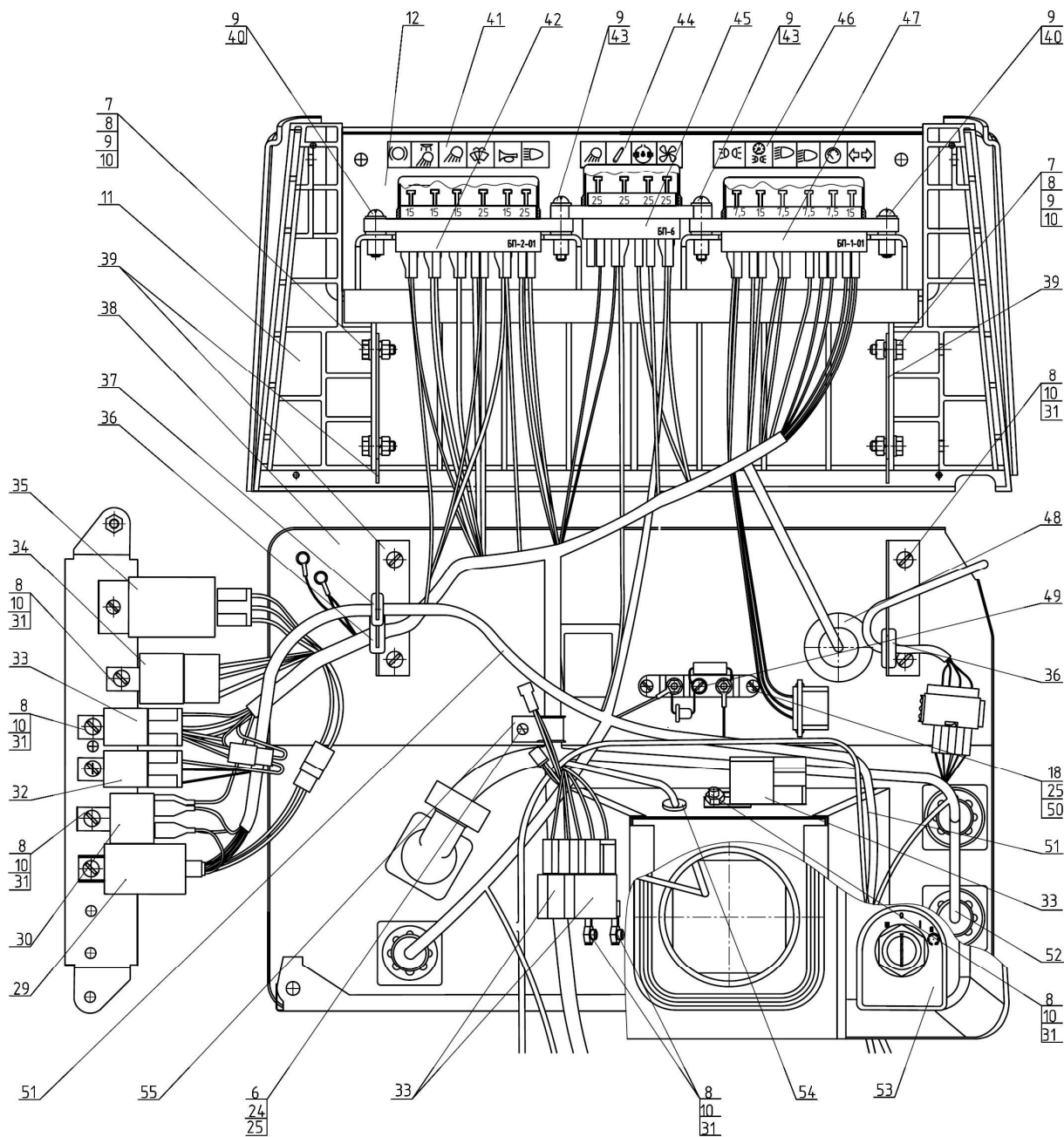


Fig. 38.2 Dashboard

**Group 38. Dashboard**  
**Subgroup 3805. Dashboard**

| Fig.No      | Pos.No | Assembly unit or part number    | Q-ty | Name                      |
|-------------|--------|---------------------------------|------|---------------------------|
| <b>38.2</b> | 7      | M6-6gx16.88.35.019 GOST 7798-70 | 4    | Bolt                      |
|             | 8      | M6-6H.6.019 GOST 5915-70        | 18   | Nut                       |
|             | 9      | C 6.01.019 GOST 11371-78        | 10   | Washer                    |
|             | 10     | 6T OST 37.001.115-75            | 21   | Washer                    |
|             | 11     | 826-3805045                     | 1    | Wall                      |
|             | 12     | 826-3805061                     | 1    | Cover                     |
|             | 18     | 5T OST 37.001.115-75            | 5    | Washer                    |
|             | 25     | M5-6H.6.019 GOST 5927-70        | 2    | Nut                       |
|             | 29     | 3741.10                         | 1    | Glow plug block           |
|             | 30     | 3747.25                         | 1    | Starter relay             |
|             | 31     | B.M6-6gx12.58.019 GOST 17473-80 | 13   | Screw                     |
|             | 32     | 3747.40                         | 1    | Cut-out relay 20A         |
|             | 33     | 3747.50                         | 4    | Cut-in relay 30A          |
|             | 34     | 3747.30                         | 1    | Instrument power relay    |
|             | 35     | 3747.10                         | 1    | Turn indicator flasher    |
|             | 36     | 70-3723042-02                   | 2    | Bushing                   |
|             | 37     | 70-3723042-01                   | 1    | Bushing                   |
|             | 38     | 80-3805050-03                   | 1    | Base                      |
|             | 39     | 80-3805043                      | 2    | Bracket                   |
|             | 40     | B.M6-6gx25.58.019 GOST 17473-80 | 2    | Screw                     |
|             | 41     | 80-3805027-B                    | 1    | Instruction plate         |
|             | 42     | 3722.10                         | 1    | Fuse block                |
|             | 43     | B.M6-6gx40.58.019 GOST 17473-80 | 2    | Screw                     |
|             | 44     | 80-3805037-Г                    | 1    | Instruction plate         |
|             | 45     | 3722.15                         | 1    | Fuse block                |
|             | 46     | 80-3805026                      | 1    | Instruction plate         |
|             | 47     | 3722.35                         | 1    | Fuse block                |
|             | 48     | 80-3723048                      | 1    | Bushing                   |
|             | 49     | 3741.30                         | 1    | Additional resistor (CAN) |
|             | 50     | B.M5-6gx20.58.019 GOST 17473-80 | 2    | Screw                     |
|             | 51     | 826-3724530                     | 1    | Harness                   |
|             | 52     | 826.4-3724395-Б                 | 1    | Harness                   |
|             | 53     | 826-3805013-01                  | 1    | Instruction plate         |
|             | 54     | 50-4607064                      | 1    | Bushing                   |
|             | 55     | 80-3723043                      | 1    | Jokey                     |



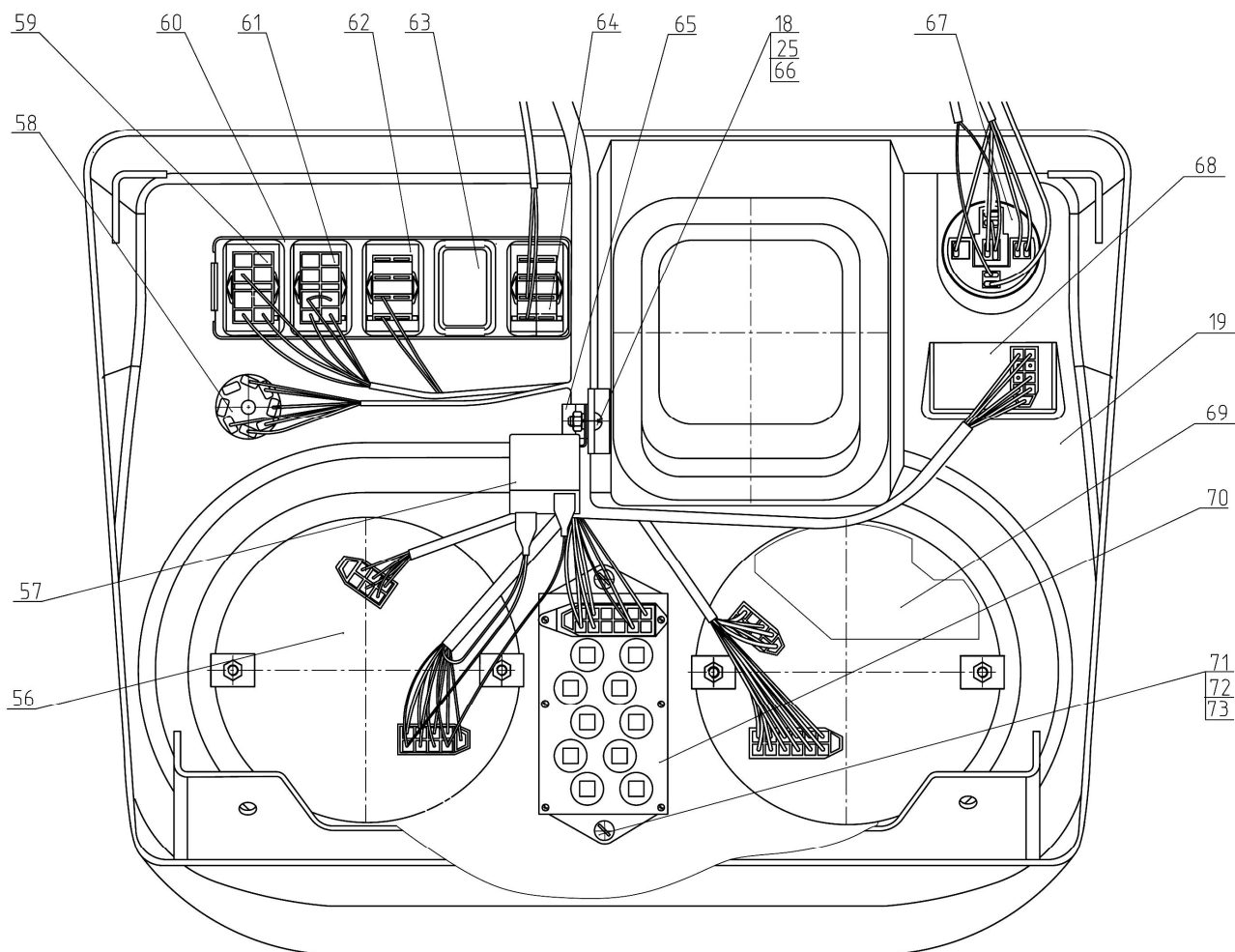


Fig. 38.3 Dashboard

**Group 38. Dashboard**

**Subgroup 3805. Dashboard**

| Fig.No      | Pos.No | Assembly unit or part number    | Q-ty | Name                           |
|-------------|--------|---------------------------------|------|--------------------------------|
| <b>38.3</b> | 18     | 5T OST 37.001.115-75            | 5    | Washer                         |
|             | 19     | 826-3805021                     | 1    | Shield                         |
|             | 25     | M5-6H.6.019 GOST 5927-70        | 2    | Nut                            |
|             | 56     | 3813.35                         | 1    | Integrated indicator (CAN)     |
|             | 57     | 3747.20                         | 1    | Alarm-relay                    |
|             | 58     | 3710.10                         | 1    | Hazard light switch            |
|             | 59     | 3710.30                         | 1    | Working lights switch          |
|             | 60     | 826-3710011                     | 1    | Jack for disconnect switches   |
|             | 61     | 3709.20                         | 1    | Dipswitch control              |
|             | 62     | 3710.35                         | 1    | Windscreen washer switch       |
|             | 63     | 80-3801327                      | 1    | Blind plug                     |
|             | 64     | 3710.55                         | 1    | Battery disconnect switch      |
|             | 65     | 80-3723038                      | 1    | Joke                           |
|             | 66     | B.M5-6gx12.58.019 GOST 17473-80 | 1    | Screw                          |
|             | 67     | 3710.15                         | 1    | Starter switch with start lock |
|             | 68     | 3813.40                         | 1    | Control panel                  |
|             | 69     | 3801.20                         | 1    | Instrument cluster КП-6 CAN    |
|             | 70     | 3803.20                         | 1    | Warning light block            |
|             | 71     | B.M4-6gx12.58.019 GOST 17473-80 | 1    | Screw                          |
|             | 72     | C 4.01.019 GOST 11371-78        | 2    | Washer                         |
|             | 73     | 4 OST 37.001.115-75             | 2    | Washer                         |

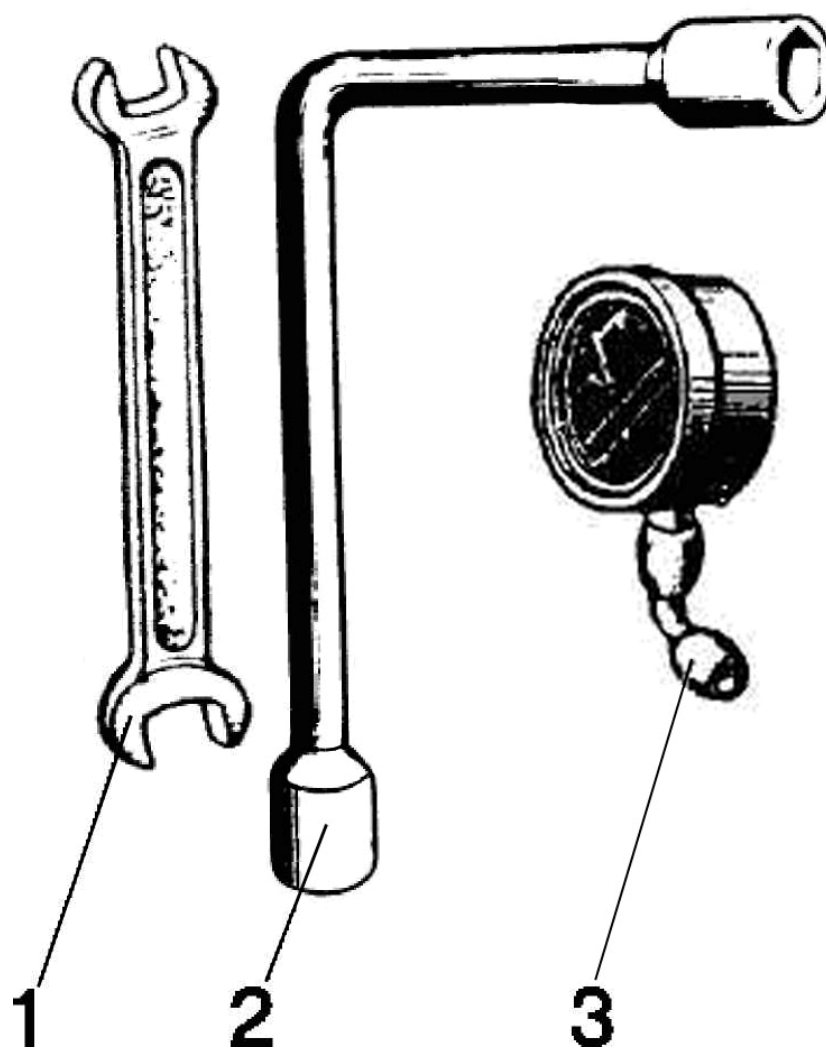


Fig. 39.1 Operator tool

**Group 39. Tools and accessories**  
**Subgroup 3901. Operator tool**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                  |
|-------------|--------|------------------------------|------|-----------------------|
| <b>39.1</b> | 1      | 70-3901038                   | 1    | Wrench 41x46          |
|             | 2      | 70-3901027                   | 1    | Socket wrench S=27x32 |
|             | 3      | МД214                        | 1    | Manometer             |

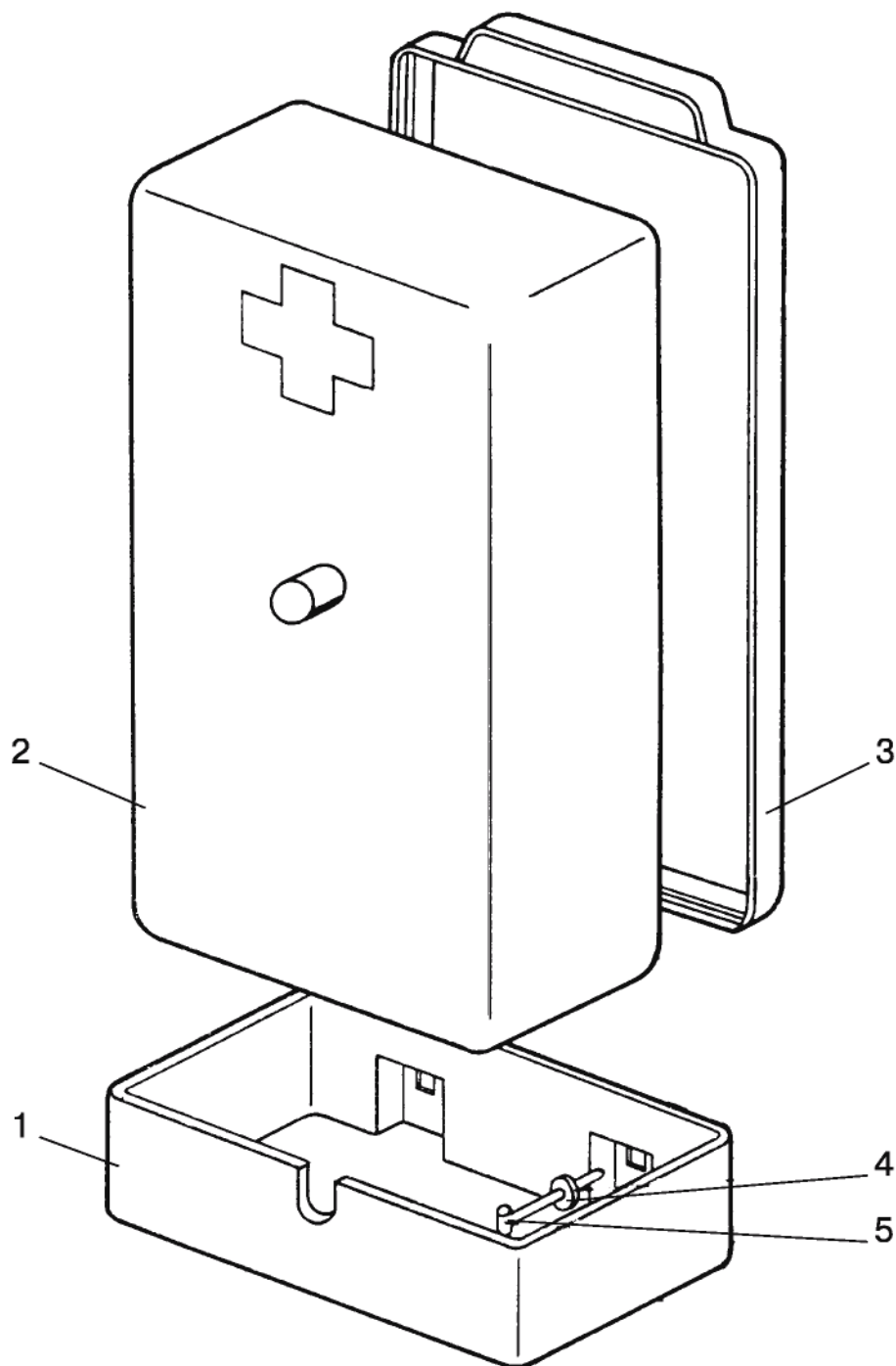


Fig. 39.2. First aid kit

**Group 39. Tools and accessories**  
**Subgroup 3912. First aid kit**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name    |
|-------------|--------|------------------------------|------|---------|
| <b>39.2</b> | 1      | 70-3912153-A                 | 1    | Bracket |
|             | 2      | 70-3912152                   | 1    | Housing |
|             | 3      | 70-3912151                   | 1    | Cover   |
|             | 4      | ШЧ 6                         | 3    | Washer  |
|             | 5      | 70-3723033                   | 3    | Joke    |

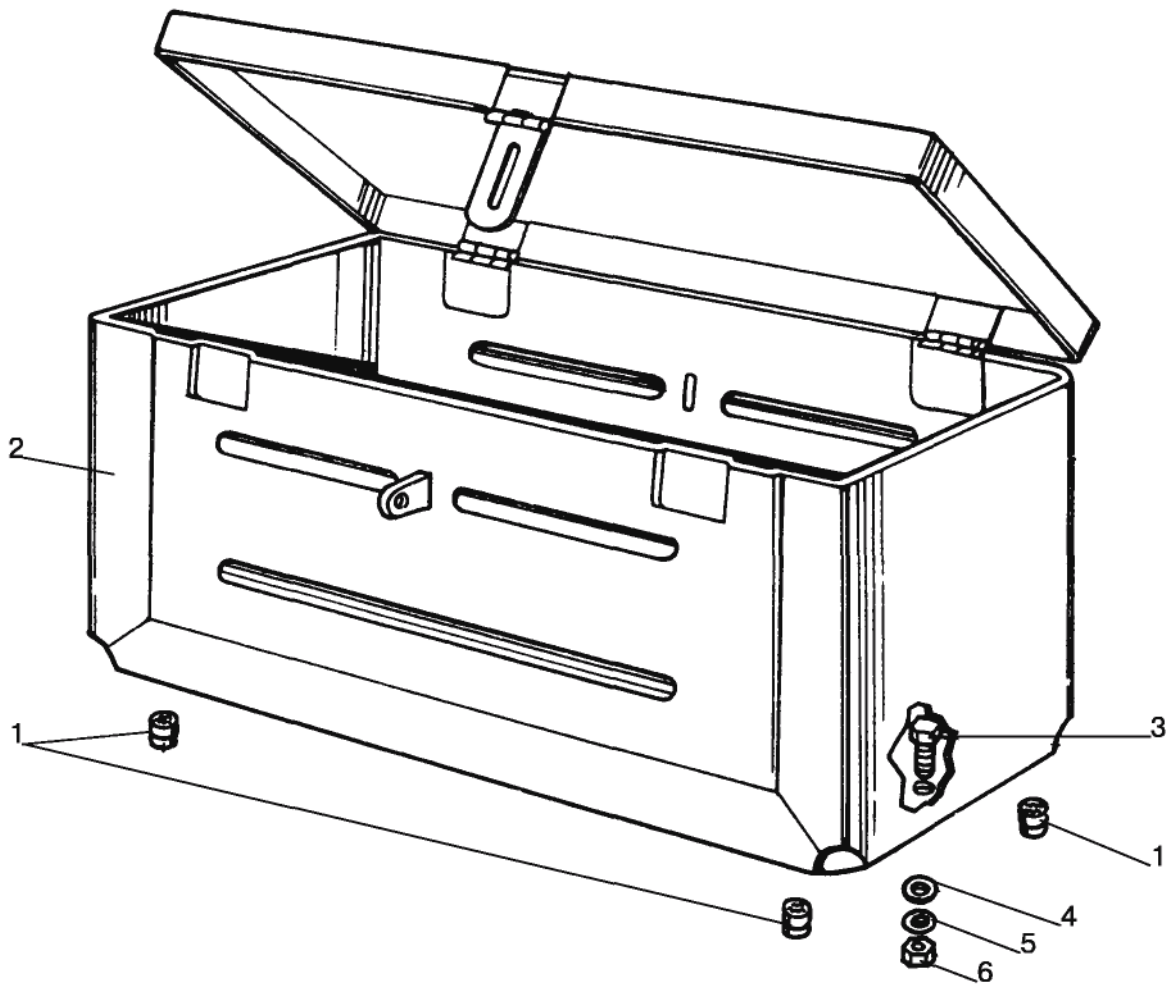


Fig. 39.3. Tool box

**Group 39. Tools and accessories**  
**Subgroup 3919. Tool box**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name   |
|-------------|--------|------------------------------|------|--------|
| <b>39.3</b> | 1      | 50-8400018                   | 4    | Bumper |
|             | 2      | 70-3919110                   | 1    | Box    |
|             | 3      | M8x16                        | 2    | Bolt   |
|             | 4      | ШЧ 8                         | 2    | Washer |
|             | 5      | ШП 8                         | 2    | Washer |
|             | 6      | M8                           | 2    | Nut    |



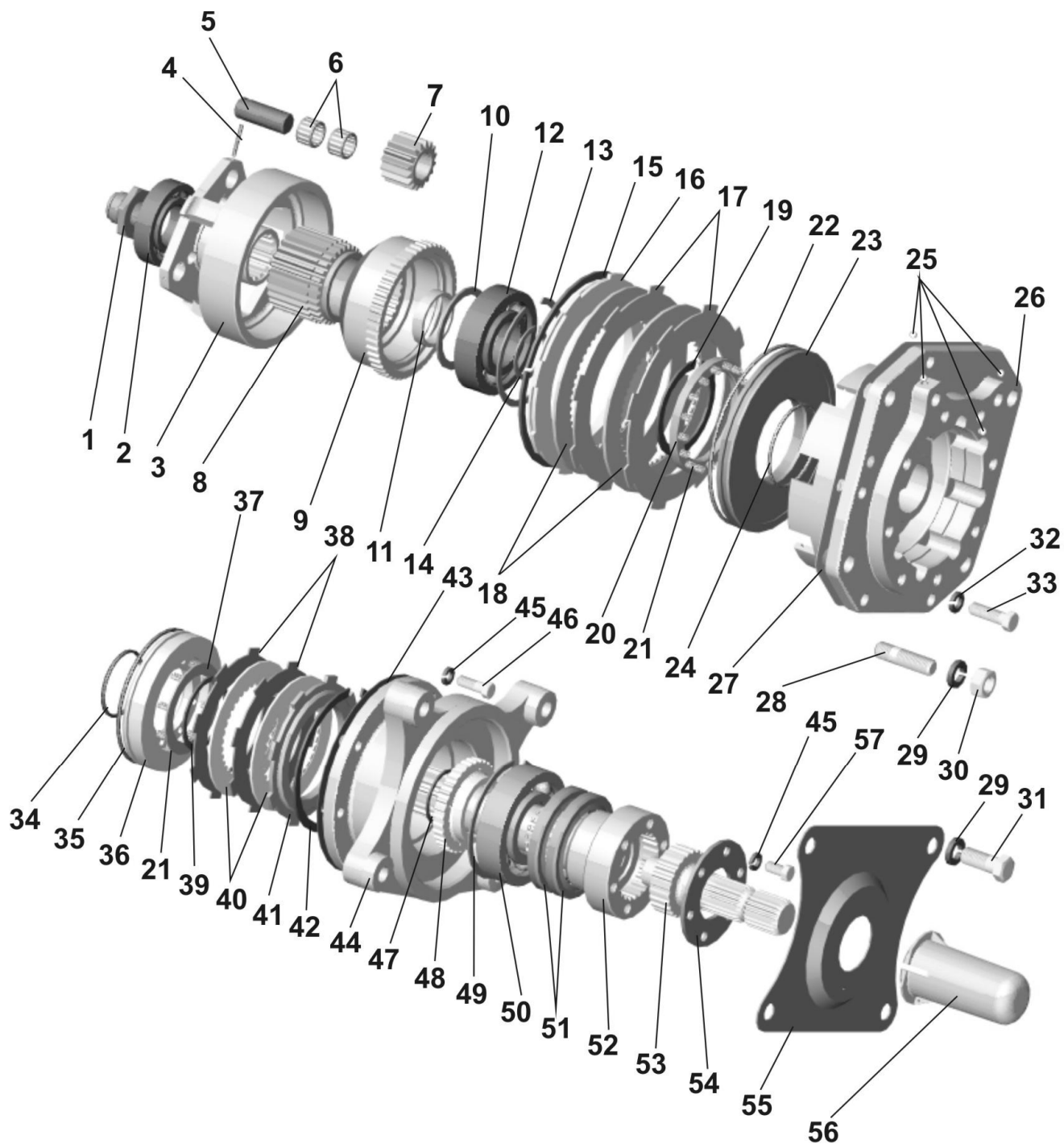


Fig. 42.1 Reduction gear unit

**Group 42. Power take-off (PTO)  
Subgroup 4202. Rear PTO shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                |
|-------------|--------|------------------------------|------|---------------------|
| <b>42.1</b> |        | 1025-4202010                 | 1    | Rear PTO shaft      |
|             |        | 1025-4202020                 | 1    | Reduction gear unit |
|             |        | 70-4202030-A                 | 1    | Crown gear          |
|             | 1      | 70-4202083-A                 | 1    | Nut                 |
|             | 2      | 280A                         | 1    | Bearing             |
|             | 3      | 85-4202065                   | 1    | Pinion cage         |
|             | 4      | 70-4202431                   | 3    | Pin                 |
|             | 5      | 70-4202026                   | 3    | Satellite gear axis |
|             | 6      | SKF K20x26x17                | 6    | Bearing             |
|             | 7      | 70-4202024                   | 3    | Satellite gear      |
|             | 8      | 1025-4202036                 | 1    | Sun gear            |
|             | 9      | 1025-4202037                 | 1    | Clutch              |
|             | 10     | 2C 68                        | 1    | Ring                |
|             | 11     | 1025-4202003                 | 1    | Bushing             |
|             | 12     | 309K                         | 1    | Bearing             |
|             | 13     | 2C 100                       | 1    | Ring                |
|             | 14     | C 45                         | 1    | Ring                |
|             | 15     | 8-1701392A                   | 1    | Ring                |
|             | 16     | 80-1701379                   | 1    | Thrust disk         |
|             | 17     | 80-1701384                   | 2    | Drive disk          |
|             | 18     | 80-1701375                   | 2    | Driven disk ДМ 05   |
|             | 19     | C 80                         | 1    | Ring                |
|             | 20     | 77-1601373                   | 1    | Spring support      |
|             | 21     | 77-1601067                   | 16   | Spring              |
|             | 22     | 165-170-36-2-4               | 1    | Ring                |
|             | 23     | 1025-4202009                 | 1    | Piston              |
|             | 24     | 075-080-30-1-4               | 1    | Ring                |
|             | 25     | 7,144-60                     | 4    | Ball                |
|             | 26     | 1025-4202006                 | 1    | Housing             |
|             | 27     | 1025-4202001                 | 1    | Gasket              |
|             | 28     | M16-3p/6gx45                 | 4    | Stud                |
|             | 29     | 16 OT                        | 8    | Washer              |
|             | 30     | M16                          | 4    | Nut                 |
|             | 31     | M16x40                       | 4    | Bolt                |
|             | 32     | 12 OT                        | 5    | Washer              |
|             | 33     | M12x40                       | 5    | Bolt                |
|             | 34     | 059-065-36-2-4               | 1    | Ring                |
|             | 35     | 125-130-36-2-2               | 1    | Ring                |
|             | 36     | 1025-4202007                 | 1    | Piston              |
|             | 37     | 1025-4202008                 | 5    | Washer              |
|             | 38     | 86-1802032                   | 2    | Driven disk         |
|             | 39     | 2C 65                        | 1    | Ring                |
|             | 40     | 86-1802035-A                 | 2    | Drive disk          |
|             | 41     | 86-1802034                   | 1    | Thrust disk         |
|             | 42     | C 135                        | 1    | Ring                |
|             | 43     | 1025-4202004                 | 1    | Gasket              |
|             | 44     | 1025-4202011                 | 1    | Cover               |
|             | 45     | 10 OT                        | 14   | Washer              |
|             | 46     | M10x30                       | 5    | Bolt                |
|             | 47     | 2C 50                        | 1    | Ring                |

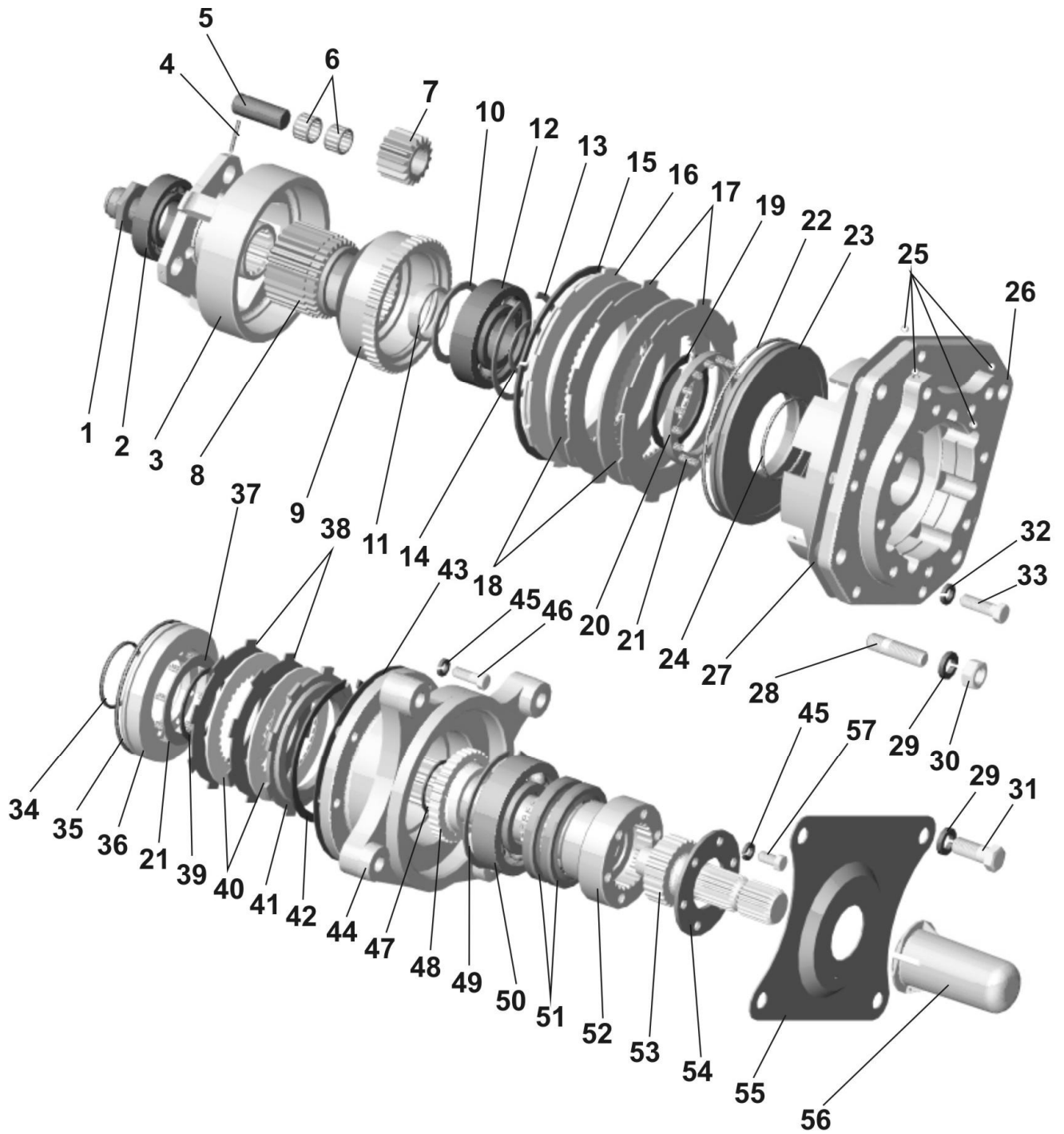


Fig. 42.1 Reduction gear unit

**Group 42. Power take-off (PTO)  
Subgroup 4202. Rear PTO shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                             |
|-------------|--------|------------------------------|------|----------------------------------|
| <b>42.1</b> | 48     | 1025-4202013                 | 1    | Clutch                           |
|             | 49     | 2C 110                       | 1    | Ring                             |
|             | 50     | 60310A                       | 1    | Bearing                          |
|             | 51     | 2.2-75x100-1                 | 2    | Collar                           |
|             | 52     | 1025-4202012                 | 1    | Shaft                            |
|             | 53     | 80-4202019-B                 | 1    | Shaft end extension (8 splines)  |
|             |        | 80-4202019-B-01*             | 1    | Shaft end extension (6 splines)  |
|             |        | 80-4202019-B-02*             | 1    | Shaft end extension (21 splines) |
|             | 54     | 80-4202081-A                 | 1    | Plate                            |
|             | 55     | 1321-4212180                 | 1    | Plate                            |
|             | 56     | 50-4202065-A-01              | 1    | Cap                              |
|             | 57     | M10x20                       | 6    | Bolt                             |

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\* Upon request

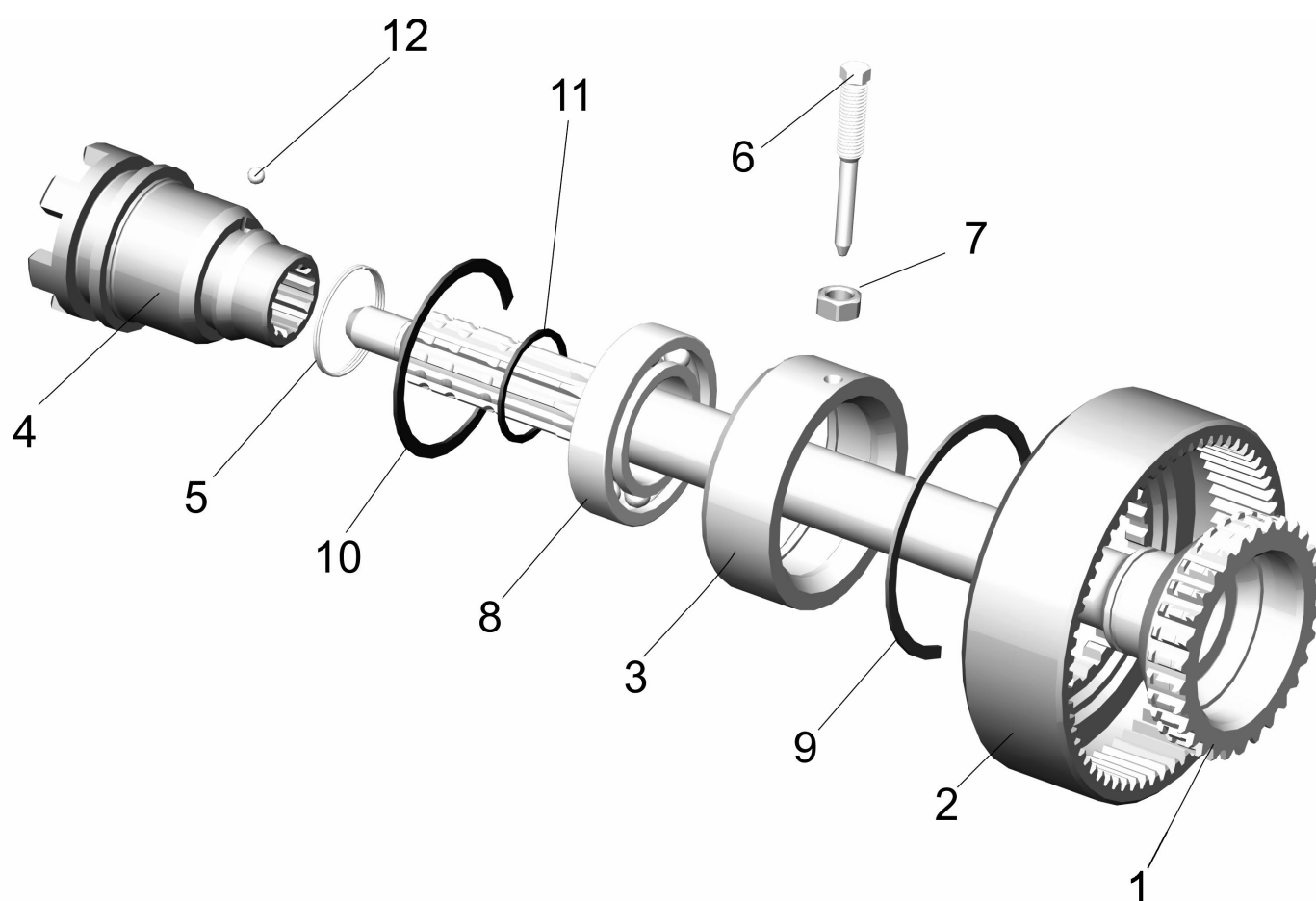


Fig. 42.2 Reduction gear unit

**Subgroup 4202. Rear PTO shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name           |
|-------------|--------|------------------------------|------|----------------|
| <b>42.2</b> | 1      | 70-4202044-B                 | 1    | Shaft          |
|             | 2      | 70-4202043                   | 1    | Crown gear     |
|             | 3      | 50-4202066-A                 | 1    | Sleeve         |
|             | 4      | 50-4202046-B                 | 1    | Shift coupling |
|             | 5      | A61.03.002                   | 1    | Ring           |
|             | 6      | 50-4202068                   | 1    | Screw          |
|             | 7      | M12x1,25                     | 1    | Nut            |
|             | 8      | 210 AYU1                     | 1    | Bearing        |
|             | 9      | 2C 110                       | 1    | Ring           |
|             | 10     | 2C 90                        | 1    | Ring           |
|             | 11     | 2C 50                        | 1    | Ring           |
|             | 12     | 7,938-100                    | 1    | Ball           |

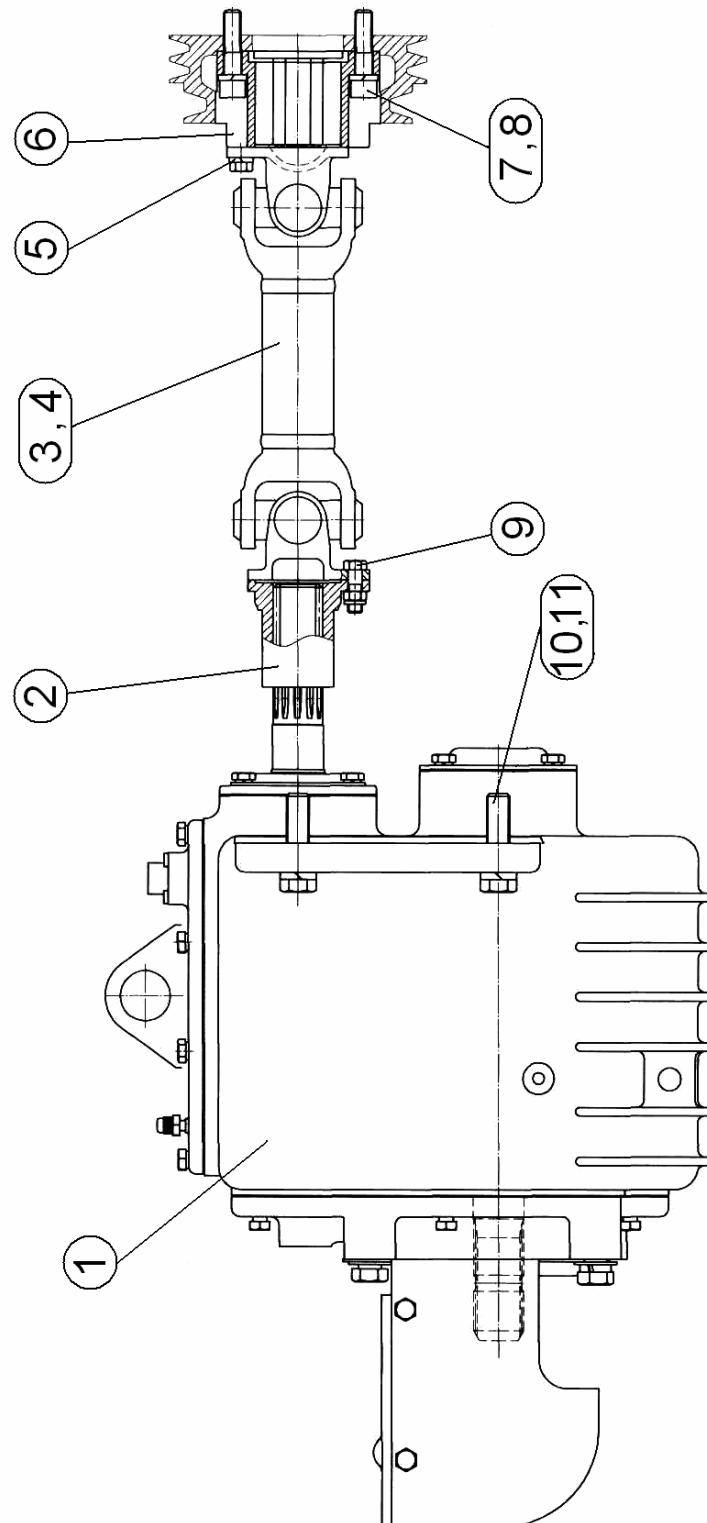


Fig. 42.3. Front PTO shaft

**Group 42. Power take-off (PTO)**  
**Subgroup 4209. Front PTO shaft**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                |
|-------------|--------|------------------------------|------|---------------------|
| <b>42.3</b> | 1      | 1522-4209025                 | 1    | Reduction gear unit |
|             | 2      | 1522-4209017                 | 1    | Flange              |
|             | 3      | 1522-4209015                 | 1    | Shaft               |
|             | 4      | 1522-4209015-01              | 1    | Shaft               |
|             | 5      | ШП 10                        | 4    | Washer              |
|             | 6      | 1522-4209018                 | 1    | Spacer plate        |
|             | 7      | BM12x50                      | 6    | Screw               |
|             | 8      | ШП 12                        | 6    | Washer              |
|             | 9      | 52-2203012                   | 8    | Bolt                |
|             | 10     | M16x60                       | 4    | Bolt                |
|             | 11     | ШП 16                        | 4    | Washer              |



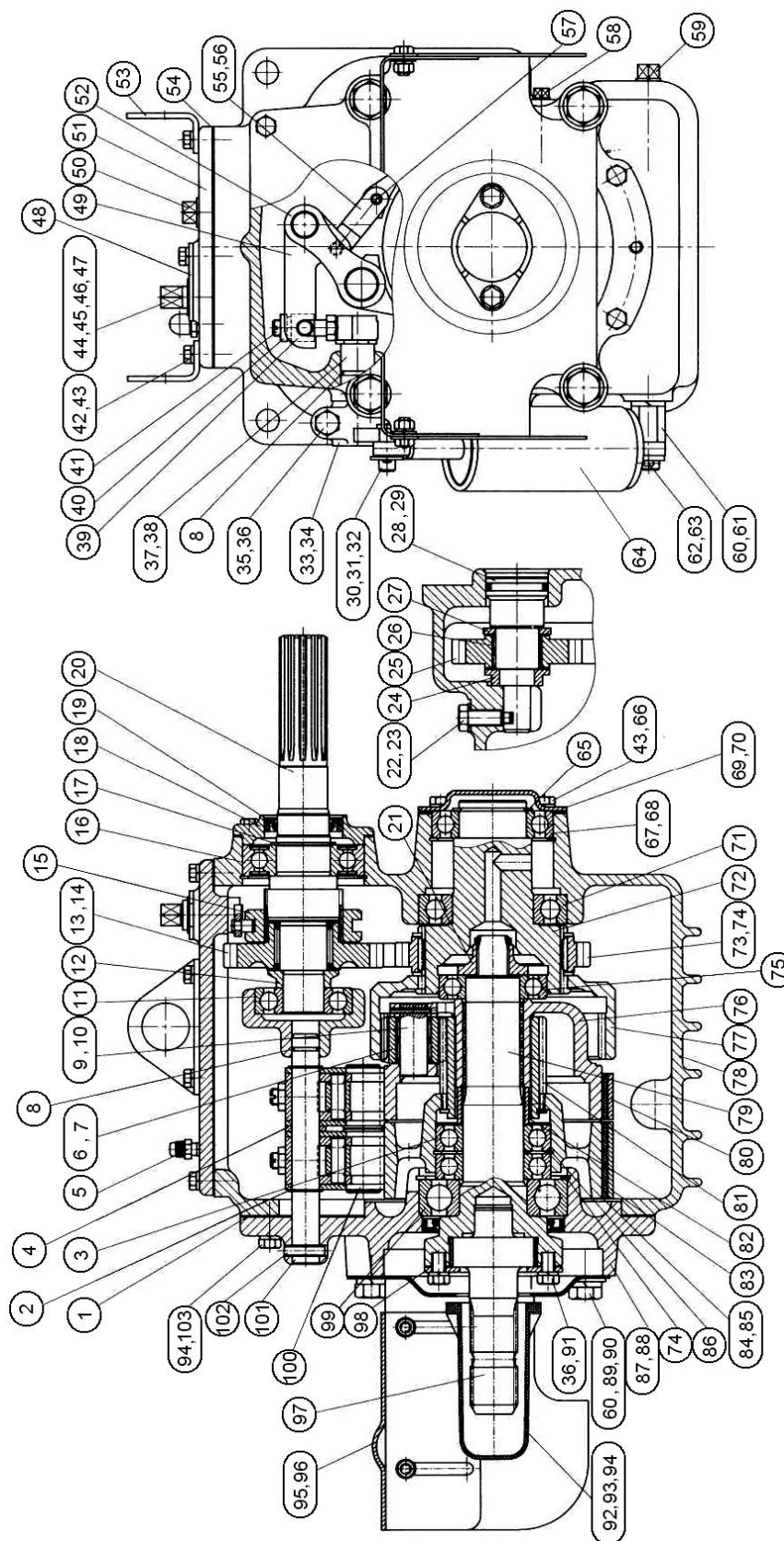


Fig. 42.4. Front PTO shaft. Reduction gear unit

**Group 42. Power take-off (PTO)**  
**Subgroup 4209. Front PTO shaft. Reduction gear unit**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty | Name                |
|--------|--------|------------------------------|------|---------------------|
| 42.4   |        | 1522-4209025                 | 1    | Reduction gear unit |
|        | 1      | 1521-4209042                 | 1    | Gasket              |
|        | 2      | C204                         | 2    | Ring                |
|        | 3      | 209A                         | 2    | Bearing             |
|        | 4      | 1521-4209076                 | 1    | Bushing             |
|        | 5      | «MINTOR» TSS0G-1/8"          | 1    | Breather            |
|        | 6      | 70-4202024                   | 3    | Satellite gear      |
|        | 7      | KK20x26x34E                  | 3    | Bearing             |
|        | 8      | 021-025-25-1-4               | 1    | Ring                |
|        | 9      | 70-4202026                   | 3    | Satellite gear axis |
|        | 10     | 4x30                         | 3    | Pin                 |
|        | 11     | 6-180306A1                   | 1    | Bearing             |
|        | 12     | 1521-4209031                 | 1    | Washer              |
|        | 13     | 1521-4209028                 | 1    | Gear                |
|        | 14     | 464906E                      | 2    | Bearing             |
|        | 15     | 1521-4209029                 | 1    | Bushing             |
|        | 16     | 180308AC23                   | 1    | Bearing             |
|        | 17     | C40                          | 1    | Ring                |
|        | 18     | 1522-4209060                 | 1    | Cover               |
|        | 19     | 2.2-38x58-1                  | 1    | Collar              |
|        | 20     | 1522-4209027                 | 1    | Shaft               |
|        | 21     | 70-4202083-A                 | 2    | Nut                 |
|        | 22     | 50-1702046-A                 | 1    | Bolt                |
|        | 23     | 1521-4209044                 | 1    | Washer              |
|        | 24     | 1521-4209034                 | 1    | Bushing             |
|        | 25     | 1521-4209033                 | 1    | Gear                |
|        | 26     | 464607E                      | 1    | Bearing             |
|        | 27     | 1521-4209036                 | 1    | Washer              |
|        | 28     | 1521-4209032                 | 1    | Axis                |
|        | 29     | 038-046-46-1-4               | 1    | Ring                |
|        | 30     | 12x32                        | 1    | Pin                 |
|        | 31     | 3,2x18                       | 1    | Forelock            |
|        | 32     | ШЧ 8                         | 2    | Washer              |
|        | 33     | 50-3503063                   | 1    | Hub                 |
|        | 34     | 1521-4209066                 | 1    | Plate               |
|        | 35     | M12x35                       | 1    | Bolt                |
|        | 36     | ШП 12                        | 1    | Washer              |
|        | 37     | 1521-4209040                 | 1    | Lever               |
|        | 38     | СШ6x11                       | 1    | Key                 |
|        | 39     | 1522-4209084                 | 2    | Nut                 |
|        | 40     | 1522-4209082                 | 2    | Pin                 |
|        | 41     | 1522-4209083                 | 2    | Screw               |
|        | 42     | M8x25                        | 14   | Bolt                |
|        | 43     | ШП 8                         | 18   | Washer              |
|        | 44     | 1521-4209086                 | 1    | Shaft               |
|        | 45     | 1521-4209087                 | 1    | Plate               |
|        | 46     | 70-1601114                   | 1    | Pin                 |
|        | 47     | 017-022-30-1-4               | 1    | Ring                |
|        | 48     | 1521-4209056                 | 1    | Plate               |
|        | 49     | 1521-4209081                 | 2    | Lever               |
|        | 50     | ПК КГ 3/4"                   | 1    | Plug                |
|        | 51     | 1522-4209057                 | 1    | Cover               |
|        | 52     | 2522-4209149                 | 4    | Stabilizer          |
|        | 53     | 80-4608073                   | 2    | Bracket             |

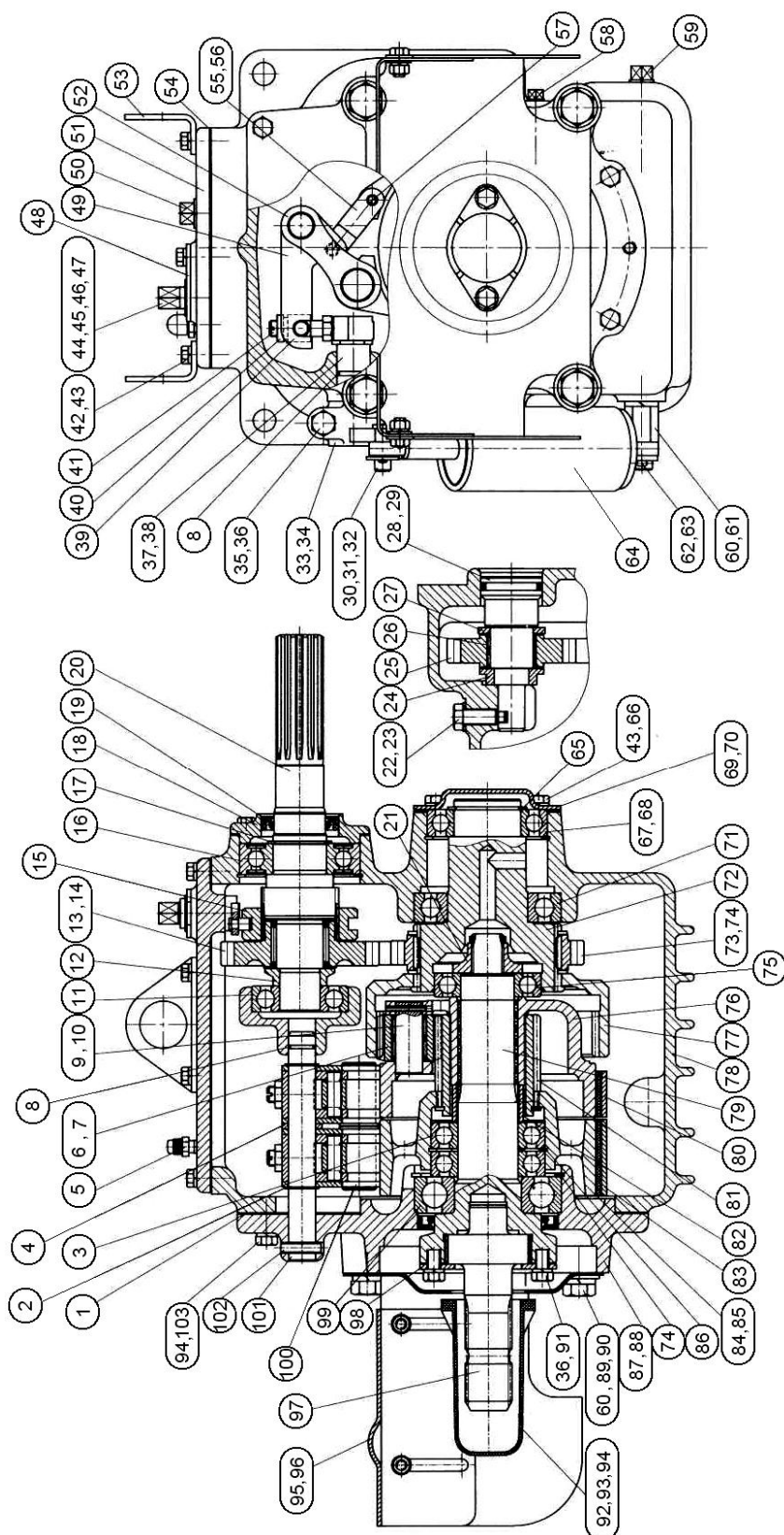


Fig. 42.4. Front PTO shaft. Reduction gear unit

**Group 42. Power take-off (PTO)**  
**Subgroup 4209. Front PTO shaft. Reduction gear unit**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                |
|-------------|--------|------------------------------|------|---------------------|
| <b>42.4</b> | 54     | 1522-4209041                 | 1    | Gasket              |
|             | 55     | 1521-4209078                 | 2    | Stabilizer          |
|             | 56     | 2.10x35                      | 1    | Pin                 |
|             | 57     | ШЦК8x36                      | 1    | Pin                 |
|             | 58     | КГ 1/8"                      | 1    | Plug                |
|             | 59     | ПК КГ 3/8"                   | 1    | Plug                |
|             | 60     | ШП 16                        | 5    | Washer              |
|             | 61     | 1521-4209037                 | 1    | Bolt                |
|             | 62     | 3,2x18                       | 1    | Forelock            |
|             | 63     | ШЧ 16                        | 1    | Washer              |
|             | 64     | 80-4216100                   | 1    | Cylinder            |
|             | 65     | 2C50                         | 2    | Ring                |
|             | 66     | M8x20                        | 4    | Bolt                |
|             | 67     | 210 АУШ1                     | 1    | Bearing             |
|             | 68     | 2C90                         | 2    | Ring                |
|             | 69     | 1521-4209038                 | 1    | Cover               |
|             | 70     | 1521 -4209039                | 2    | Gasket              |
|             | 71     | 212 АУШ1                     | 1    | Bearing             |
|             | 72     | 1522-4209046                 | 1    | Shaft               |
|             | 73     | 1521-4209047                 | 1    | Gear                |
|             | 74     | 2C110                        | 3    | Ring                |
|             | 75     | 208A                         | 1    | Bearing             |
|             | 76     | 85-4202065                   | 1    | Pinion cage         |
|             | 77     | 70-4202043                   | 1    | Crown gear          |
|             | 78     | 1522-4209026                 | 1    | Housing             |
|             | 79     | 80-4202017-Б                 | 1    | Shaft               |
|             | 80     | 2522-4209125-01              | 1    | Band                |
|             | 81     | 70-4202032                   | 1    | Sun gear            |
|             | 82     | 70-4202077                   | 1    | Bushing             |
|             | 83     | 2522-4209125                 | 1    | Band                |
|             | 84     | 85-4202033                   | 1    | Drum                |
|             | 85     | 2C68                         | 1    | Ring                |
|             | 86     | 2C85                         | 1    | Ring                |
|             | 87     | 1521-4209071                 | 1    | Cover               |
|             | 88     | 2.2-80x105-1                 | 1    | Collar              |
|             | 89     | M16x32                       | 4    | Bolt                |
|             | 90     | ШЧ 16                        | 2    | Washer              |
|             | 91     | M10x18                       | 7    | Bolt                |
|             | 92     | 80-4202101                   | 1    | Cap                 |
|             | 93     | M8x16                        | 2    | Bolt                |
|             | 94     | ШП 10                        | 11   | Washer              |
|             | 95     | 2022-4209200                 | 1    | Guard               |
|             | 96     | ШЧ 12                        | 2    | Washer              |
|             | 97     | 80-4202019-Б-02              | 1    | Shaft end extension |
|             | 98     | 80-4202081-A                 | 1    | Plate               |
|             | 99     | 60310A                       | 1    | Bearing             |
|             | 100    | 2522-4209148                 | 2    | Pin                 |
|             | 101    | 1521-4209072                 | 1    | Axis                |
|             | 102    | A8x30.65Г                    | 1    | Pin                 |
|             | 103    | M10x25                       | 6    | Bolt                |

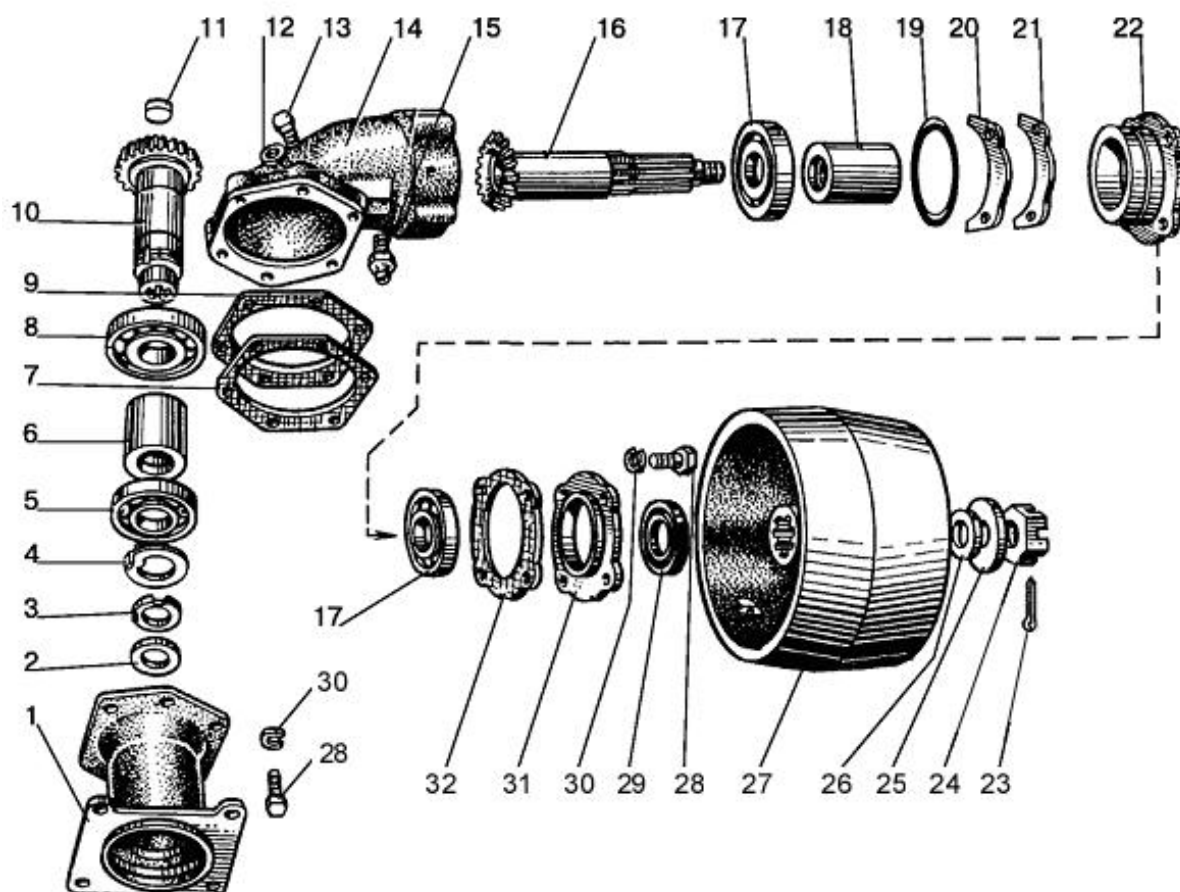


Fig. 42.5. Drive pulley

**Group 42. Power take-off (PTO)  
Subgroup 4211. Drive pulley**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                         |
|-------------|--------|------------------------------|------|------------------------------|
| <b>42.5</b> |        | 40-4211010-01                | 1    | 8-spline drive pulley (1-34) |
|             |        | 40-4211035                   | 1    | Housing (12-22, 30-34)       |
|             |        | 40-4211040                   | 1    | Shaft (3-6, 8, 10, 11)       |
|             |        | 40-4211050                   | 1    | Hose (1-6, 8, 10, 11)        |
|             |        | 40-4211065                   | 1    | Shaft (16-18, 22)            |
|             | 1      | 40-4211052                   | 1    | Hose                         |
|             | 2      | 2.2-50x70-1 (KΦA 50x70)      | 1    | Collar                       |
|             | 3      | 40-4211043                   | 1    | Nut                          |
|             | 4      | 36-1701061                   | 1    | Washer                       |
|             | 5      | 211 АУШ1                     | 1    | Bearing                      |
|             | 6      | 40-4211047                   | 1    | Bushing                      |
|             | 7      | 40-4211079                   | 1    | Gasket                       |
|             | 8      | 311A                         | 1    | Bearing                      |
|             | 9      | 40-4211081                   | 1    | Gasket                       |
|             | 10     | 40-4211045                   | 1    | Shaft                        |
|             | 11     | 40-4211082                   | 1    | Blind plug                   |
|             | 12     | KГ <sup>3/8</sup> "          | 1    | Plug                         |
|             | 13     | KГ <sup>3/4</sup> "          | 2    | Plug                         |
|             | 14     | 40-4211037                   | 1    | Housing                      |
|             | 15     | CY- <sup>1/8</sup> "-A       | 1    | Breather                     |
|             | 16     | 40-4211071                   | 1    | Shaft-gear                   |
|             | 17     | 408                          | 2    | Bearing                      |
|             | 18     | 40-4211072                   | 1    | Bushing                      |
|             | 19     | 120-125-30-1-4               | 1    | Ring                         |
|             | 20     | 36-4211054Б                  | 6    | Gasket (0,5 mm)              |
|             | 21     | 36-4211055                   | 8    | Gasket (0,2 mm)              |
|             | 22     | 36-4211048                   | 1    | Sleeve                       |
|             | 23     | 4x36                         | 1    | Forelock                     |
|             | 24     | M20x1,5                      | 1    | Nut                          |
|             | 25     | 40-3502084                   | 1    | Washer                       |
|             | 26     | 40-3502083                   | 1    | Gasket                       |
|             | 27     | 40-4211075                   | 1    | Pulley assembly              |
|             | 28     | M12x40                       | 6    | Bolt                         |
|             | 29     | 2.2-65x90-1                  | 1    | Collar                       |
|             | 30     | ШП 12                        | 6    | Washer                       |
|             | 31     | 36-4211073                   | 1    | Jack                         |
|             | 32     | 36-4211057                   | 1    | Gasket                       |

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**Group 42. Power take-off (PTO)**  
**Subgroup 4216. Rear PTO shaft control**

| Fig.No      | Pos.No | Assembly unit or part number                 | Q-ty | Name                                            |
|-------------|--------|----------------------------------------------|------|-------------------------------------------------|
| <b>42.6</b> |        | 1025-4216005                                 | 1    | Rear PTO shaft control                          |
|             | 1      | 85-4216135                                   | 2    | Oil pipeline                                    |
|             | 2      | Д18-051                                      | 8    | Bolt                                            |
|             | 3      | Д18-055-A or PM14                            | 16   | Ring                                            |
|             | 4      | 3,2x18.019 GOST 397-79                       | 1    | Forelock                                        |
|             | 5      | M6-6gx16.88.35.019<br>GOST 7798-70           | 2    | Bolt                                            |
|             | 6      | 6T OST 37.001.115-75                         | 4    | Washer                                          |
|             | 7      | 85-4216127                                   | 1    | Plate                                           |
|             | 8      | C16 GOST 13940-86                            | 2    | Ring                                            |
|             | 9      | "NORMA" TORRO 12-20/9-C6W                    | 8    | Clamp                                           |
|             | 10     | Φ80-3407720                                  | 4    | Oil pipeline                                    |
|             | 11     | 85-4216121                                   | 1    | Housing                                         |
|             | 12     | 1221-4216104                                 | 1    | Hose 10x18,5-1,6 GOST10362-76<br>L=(1200±10) mm |
|             | 13     | 85-4216142                                   | 1    | Rod                                             |
|             | 14     | 1221-4216055                                 | 1    | Tip                                             |
|             | 15     | 1221-4216016                                 | 2    | Hose 10x18,5-1,6 GOST10632-76<br>L=(300±10) mm  |
|             | 16     | 012-016-25-2-4<br>GOST 18829-73/GOST 9833-73 | 2    | Ring                                            |
|             | 17     | C 8.01.019 GOST 11371-78                     | 1    | Washer                                          |
|             | 18     | 85-4216123                                   | 1    | Lever                                           |
|             | 19     | A.6x30.65Г GOST 14229-93                     | 2    | Pin                                             |
|             | 20     | 85-4216124                                   | 1    | Lock                                            |
|             | 21     | 1221-4216035                                 | 1    | Tip                                             |
|             | 22     | 85-4216122                                   | 1    | Spool                                           |
|             | 23     | M6-6gx40.88.35.019<br>GOST 7795-70           | 2    | Bolt                                            |
|             | 24     | 1221-4216101                                 | 1    | Hose 10x18,5-1,6 GOST10362-76<br>L=(1000±10) mm |



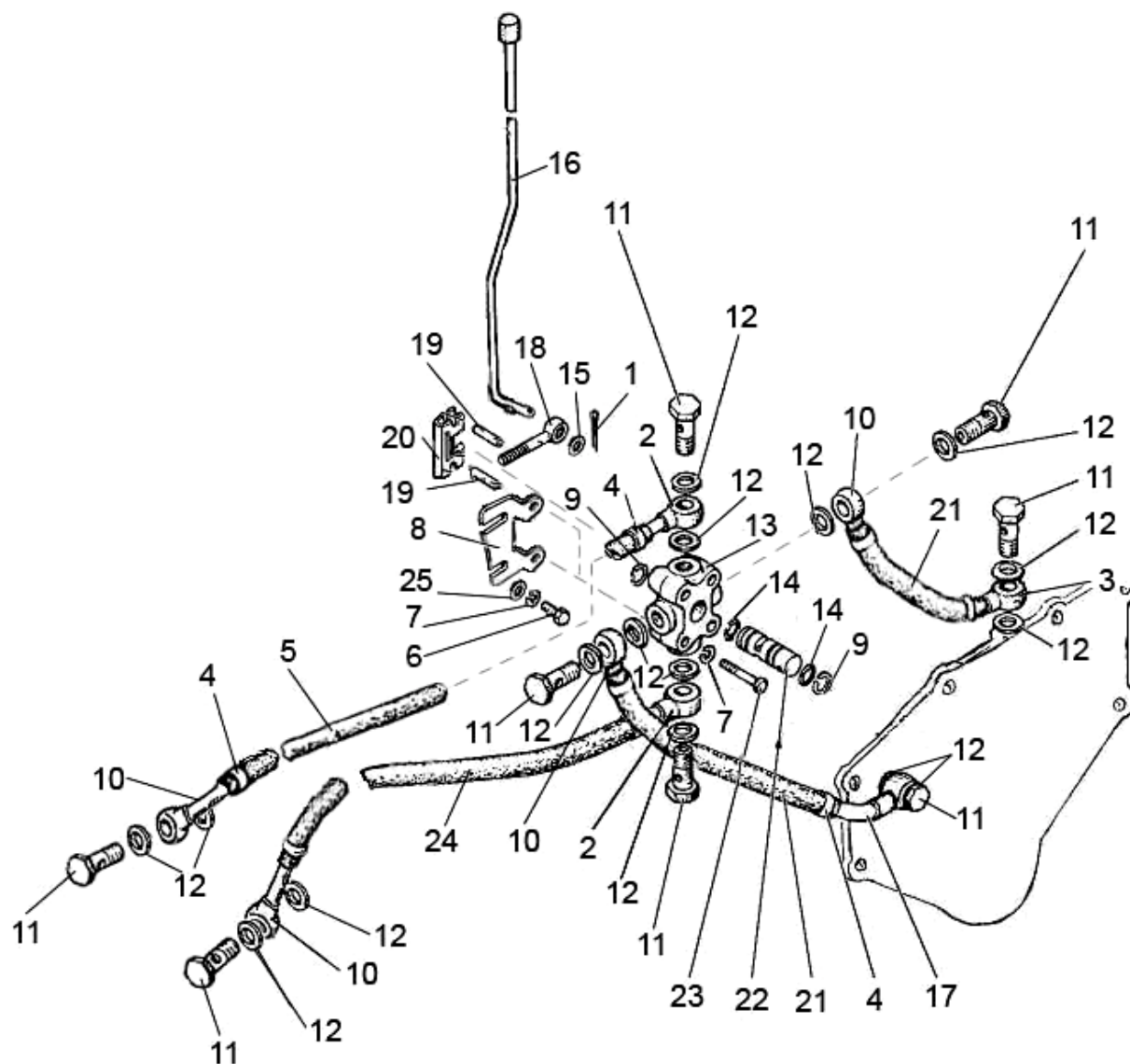


Fig. 42.7. Rear PTO shaft control (for wet brakes)

**Group 42. Power take-off (PTO)**  
**Subgroup 4216. Rear PTO shaft control**

| Fig.No      | Pos.No | Assembly unit or part number                | Q-ty | Name                                           |
|-------------|--------|---------------------------------------------|------|------------------------------------------------|
| <b>42.7</b> |        | 1025-4216005-01                             | 1    | Rear PTO shaft control                         |
|             | 1      | 3,2x18.019 GOST 397-79                      | 1    | Forelock                                       |
|             | 2      | 85-4216135                                  | 2    | Oil pipeline                                   |
|             | 3      | 1221-4216055                                | 1    | Tip                                            |
|             | 4      | "NORMA" TORRO 12-20/9-C6W                   | 8    | Clamp                                          |
|             | 5      | 1221-4216104                                | 1    | Hose10x18,5-1,6 GOST10362-76<br>L=(1200±10) mm |
|             | 6      | M6-6gx16.88.35.019 GOST 7798-70             | 2    | Bolt                                           |
|             | 7      | 6T OST 37.001.115-75                        | 4    | Washer                                         |
|             | 8      | 1221M-4216011                               | 1    | Bracket                                        |
|             | 9      | C16 GOST 13940-86                           | 2    | Ring                                           |
|             | 10     | Φ80-3407720                                 | 4    | Oil pipeline                                   |
|             | 11     | Д18-051                                     | 8    | Bolt                                           |
|             | 12     | Д18-055A or PM14                            | 16   | Ring                                           |
|             | 13     | 85-4216121                                  | 1    | Housing                                        |
|             | 14     | 012-016-25-2-4<br>GOST 18829-73/GOST9833-73 | 2    | Ring                                           |
|             | 15     | C 8.01.019 GOST 11371-78                    | 1    | Washer                                         |
|             | 16     | 1221M-4216012                               | 1    | Rod                                            |
|             | 17     | 1221-4216035                                | 1    | Tip                                            |
|             | 18     | 85-4216123                                  | 1    | Lever                                          |
|             | 19     | A.6x30.65Г GOST 14229-93                    | 2    | Pin                                            |
|             | 20     | 85-4216124                                  | 1    | Lock                                           |
|             | 21     | 1221-4216016                                | 2    | Hose10x18,5-1,6 GOST10362-76<br>L=(300±10) mm  |
|             | 22     | 85-4216122                                  | 1    | Spool                                          |
|             | 23     | M6-6gx40.88.35.019 GOST 7795-70             | 2    | Bolt                                           |
|             | 24     | 1221-4216101                                | 1    | Hose10x18,5-1,6 GOST10362-76<br>L=(1100±10) mm |
|             | 25     | C 6.01.019 GOST 11371-78                    | 2    | Washer                                         |

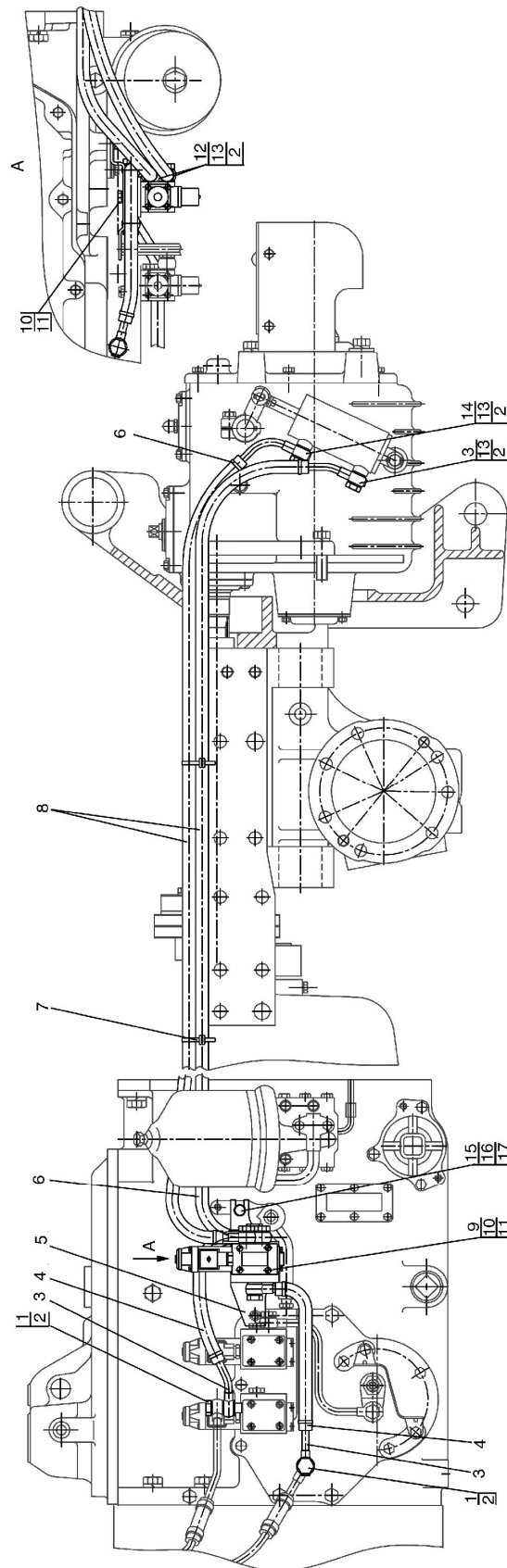


Fig. 42.8. Front PTO shaft control

**Group 42. Power take-off (PTO)**  
**Subgroup 4216. Front PTO shaft control**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                    |
|-------------|--------|------------------------------|------|-------------------------|
| <b>42.8</b> |        | 1523-4218010                 | 1    | Front PTO shaft control |
|             | 1      | 240-1111103                  | 2    | Bolt                    |
|             | 2      | Д18-055-A                    | 6    | O-ring                  |
|             | 3      | 1221-4216035                 | 3    | Tip                     |
|             | 4      | 1221-4218014                 | 2    | Hose                    |
|             | 5      | 1221-4216253                 | 1    | Bracket                 |
|             | 6      | 12-20/9-CGW                  | 2    | Clamp «NORMA» TORRO     |
|             | 7      | 80-3723045-01                | 4    | Collar                  |
|             | 8      | 1221-4218016                 | 2    | Hose                    |
|             | 9      | 1221-4216180                 | 1    | Plate with distributor  |
|             | 10     | M8x20                        | 2    | Bolt                    |
|             | 11     | ШП 8                         | 2    | Washer                  |
|             | 12     | Φ80-3407720                  | 4    | Oil pipeline            |
|             | 13     | Д18-051                      | 6    | Bolt                    |
|             | 14     | 1221-4216055                 | 1    | Tip                     |
|             | 15     | M10x20                       | 1    | Bolt                    |
|             | 16     | ШЧ 10                        | 1    | Washer                  |
|             | 17     | ШП 10                        | 1    | Washer                  |

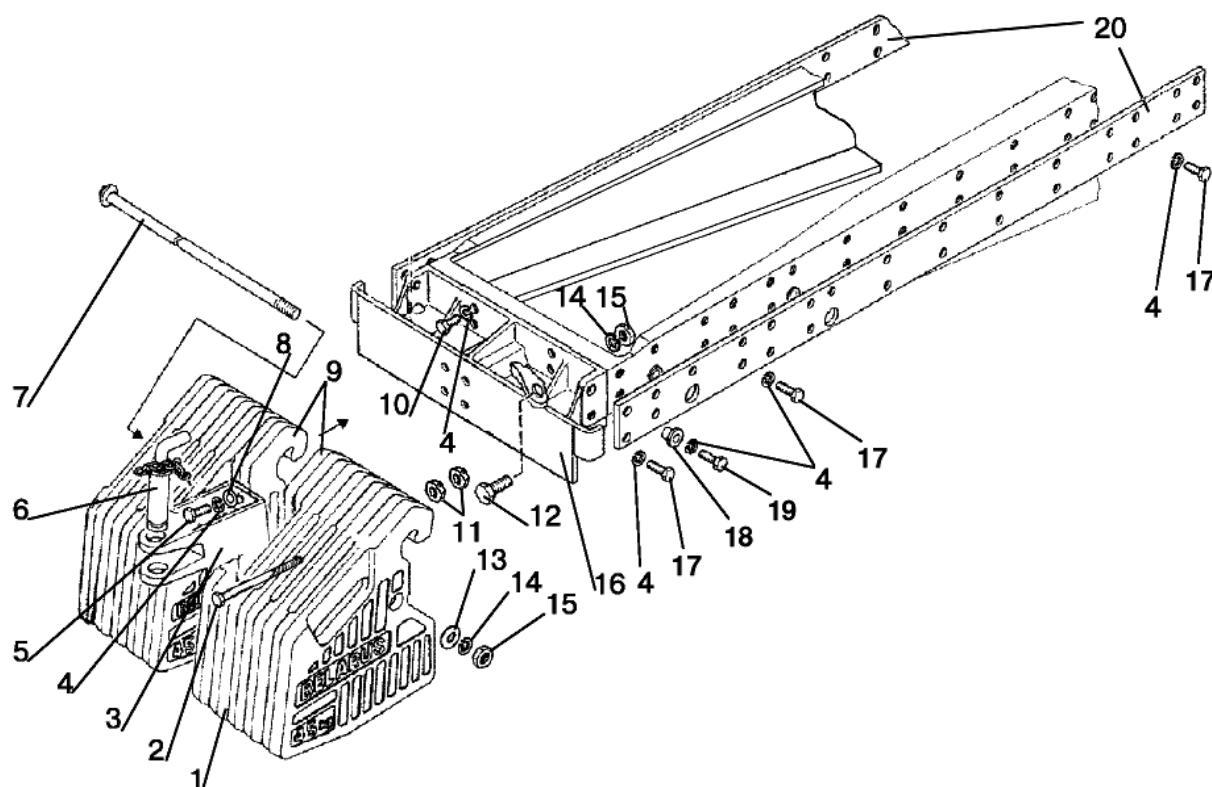


Fig. 42.9. Ballast

**Group 42. Power take-off (PTO)  
Subgroup 4235. Ballast**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                   |
|-------------|--------|------------------------------|------|------------------------|
| <b>42.9</b> | 1      | 80-4235011-A                 | 8    | Ballast weight (45 kg) |
|             | 2      | 1025-4235012                 | 2    | Bolt                   |
|             | 3      | 85-4235025-B                 | 1    | Ear                    |
|             | 4      | ШП 16                        | 46   | Washer                 |
|             | 5      | M16x45                       | 2    | Bolt                   |
|             | 6      | 70-4235030                   | 1    | Kingpin                |
|             | 7      | 1025-4235015-01              | 1    | String                 |
|             | 8      | ШЧ 16                        | 2    | Washer                 |
|             | 9      | 1521-4235011-A               | 2    | Ballast weight (40 kg) |
|             | 10     | M16x40                       | 4    | Bolt                   |
|             | 11     | M18                          | 4    | Nut                    |
|             | 12     | 70-4605036                   | 2    | Bolt                   |
|             | 13     | 40-3502084                   | 1    | Washer                 |
|             | 14     | ШП 20                        | 3    | Washer                 |
|             | 15     | M20                          | 3    | Nut                    |
|             | 16     | 1521-4235020                 | 1    | Bracket                |
|             | 17     | M16x50                       | 38   | Bolt                   |
|             | 18     | 1521-4535029                 | 2    | Bushing                |
|             | 19     | M16x60                       | 2    | Bolt                   |
|             | 20     | 1222-4235012                 | 2    | Plate                  |

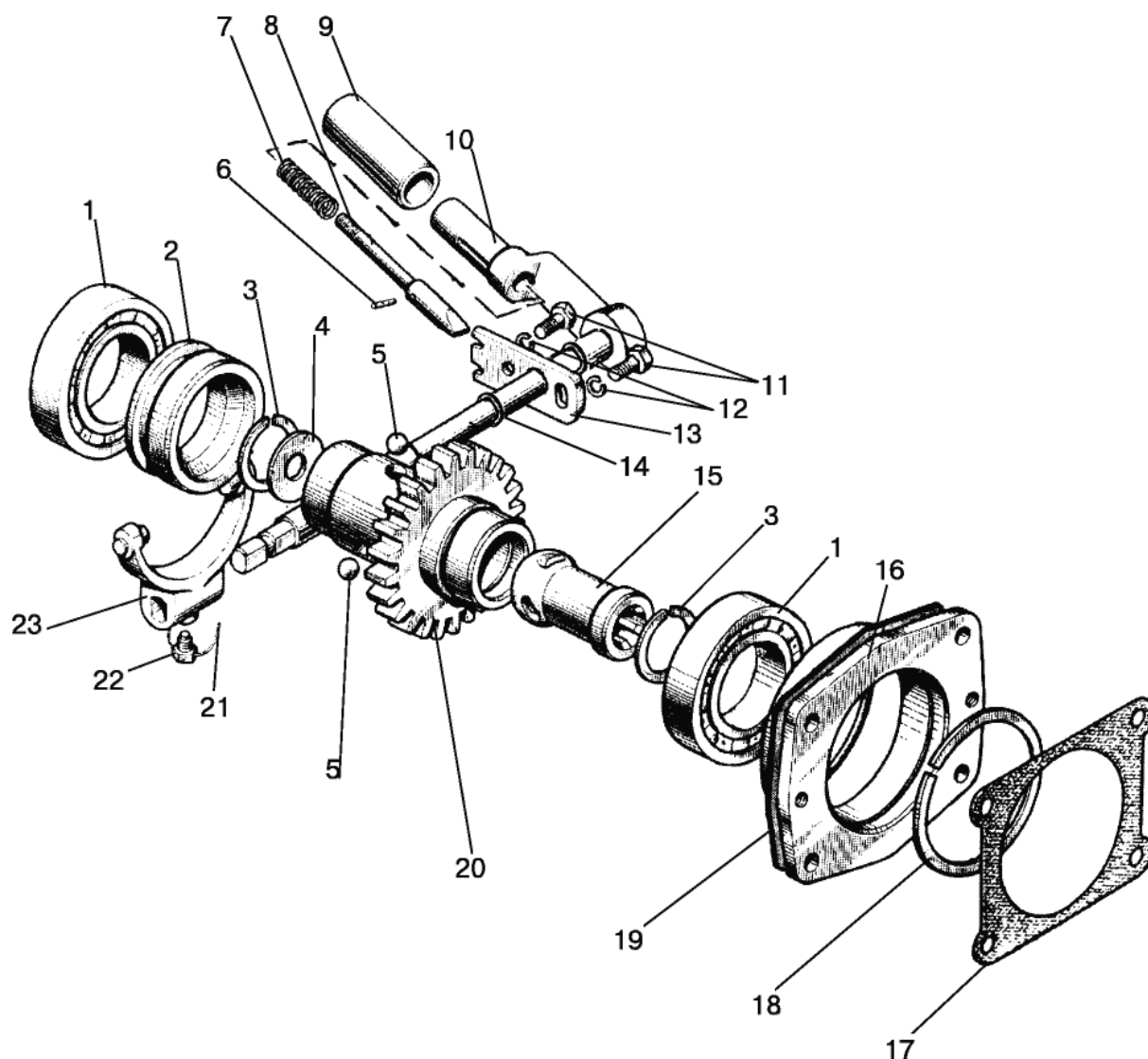


Fig. 46.1. Pump drive

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4604. Pump drive**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                           |
|-------------|--------|------------------------------|------|--------------------------------|
| <b>46.1</b> |        | 85-4604010                   | 1    | Pump drive (1-5, 11-14, 16-24) |
|             |        | 36-1022070-B                 | 1    | Handle (6-10, 15)              |
|             | 1      | 210A                         | 2    | Bearing                        |
|             | 2      | 85-4604017                   | 1    | Clutch                         |
|             | 3      | B40                          | 2    | Ring                           |
|             | 4      | 70-1108179                   | 1    | Washer                         |
|             | 5      | 11,113-100                   | 3    | Ball                           |
|             | 6      | 4C <sub>3</sub> x16          | 1    | Pin                            |
|             | 7      | 36-1022074                   | 1    | Spring                         |
|             | 8      | 36-1022073                   | 1    | Detent                         |
|             | 9      | 36-1022072                   | 1    | Sleeve                         |
|             | 10     | 85-4604010-B                 | 1    | Handle                         |
|             | 11     | M8x16                        | 2    | Bolt                           |
|             | 12     | ШП 8                         | 2    | Washer                         |
|             | 13     | 50-4604044                   | 1    | Plate                          |
|             | 14     | 013-017-25-1-4               | 1    | Ring                           |
|             | 15     | 85-4604012                   | 1    | Bushing                        |
|             | 16     | 50-4604036-A                 | 1    | Sleeve                         |
|             | 17     | 36-1022054-A                 | 1    | Gasket                         |
|             | 18     | 2B90                         | 1    | Ring                           |
|             | 19     | 70-4604037                   | 1    | Gasket                         |
|             | 20     | 85-4604011                   | 1    | Gear                           |
|             | 21     | 1,0x150                      | 1    | Wire                           |
|             | 22     | 50-4604046                   | 1    | Bolt                           |
|             | 23     | 85-4604030                   | 1    | Yoke                           |



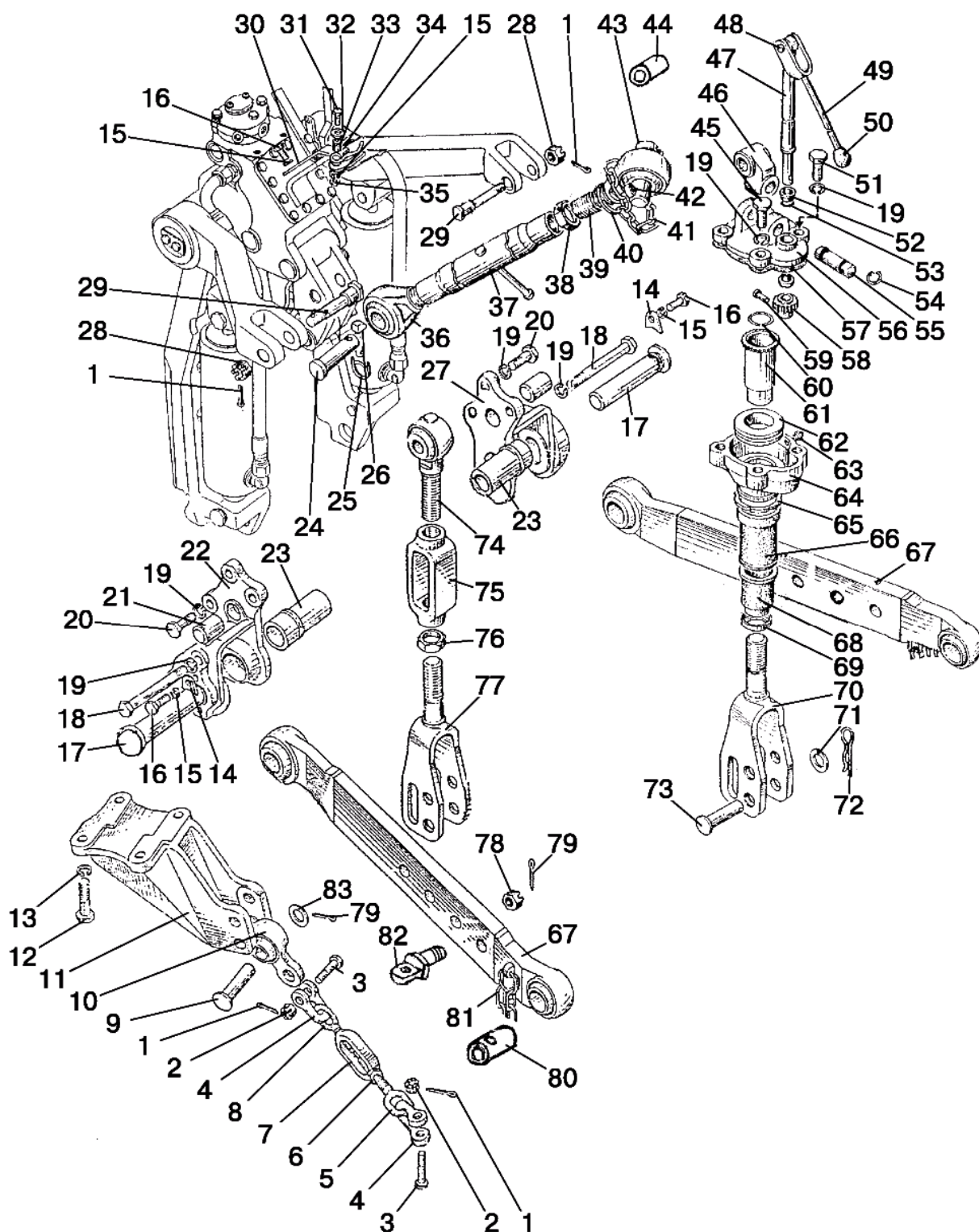


Fig. 46.2. Hydraulically operated lift linkage

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4605. Hydraulically operated lift linkage**

| Fig.No      | Pos.No | Assembly unit or part number  | Q-ty | Name                               |
|-------------|--------|-------------------------------|------|------------------------------------|
| <b>46.2</b> |        | 1220-4605510-05               | 1    | Rear lift linkage (1-83)           |
|             |        | 1220-4605120                  | 2    | Stabilizer (1-8, 10)               |
|             |        | 1223-4605530-04               | 2    | Rod (67, 78, 79, 81, 82)           |
|             |        | 1220-4605590                  | 1    | Top link (36-43)                   |
|             |        | 1220-4605610-01               | 2    | Lifting rod (19, 45-66, 68-70)     |
|             |        | 1220-4605670                  | 1    | Bracket (16, 30-35)                |
|             |        | 1220-4605695                  | 1    | Screw (39-43)                      |
|             |        | 1220-4605612-01               | 1    | Lifting rod (74-77) (upon request) |
|             | 1      | 4x36                          | 6    | Forelock                           |
|             | 2      | M16                           | 4    | Nut                                |
|             | 3      | 1220-4605104                  | 4    | Bolt                               |
|             | 4      | 1220-4605107                  | 4    | Clip                               |
|             | 5      | 1220-4605102                  | 2    | Screw                              |
|             | 6      | M24                           | 2    | Nut                                |
|             | 7      | 1220-4605103                  | 2    | Stabilizer                         |
|             | 8      | 1220-4605102-01               | 2    | Screw (LH)                         |
|             | 9      | Φ50-4605084                   | 2    | Pin                                |
|             | 10     | 1220-4605105                  | 2    | Clip                               |
|             | 11     | 1220-4605091-B1               | 1    | Right bracket                      |
|             |        | 1220-4605091-B1-01            | 1    | Left bracket                       |
|             | 12     | 680-2707024                   | 8    | Bolt                               |
|             | 13     | ШП 20                         | 8    | Washer                             |
|             | 14     | 1220-4605504                  | 2    | Plate                              |
|             | 15     | ШП 12                         | 5    | Washer                             |
|             | 16     | M12x25                        | 4    | Bolt                               |
|             | 17     | 1220-4605503                  | 2    | Pin                                |
|             | 18     | 80-2800016-01                 | 2    | Bolt                               |
|             | 19     | ШП 16                         | 16   | Washer                             |
|             | 20     | 1220-4605506                  | 6    | Bolt                               |
|             | 21     | 1220-4605507                  | 2    | Pin                                |
|             | 22     | 1220-4605501-01               | 1    | Bracket                            |
|             | 23     | 1220-4605502                  | 2    | Bushing                            |
|             | 24     | A61.10.001-02                 | 1    | Pin                                |
|             | 25     | A61.05.004                    | 1    | Ring                               |
|             | 26     | A61.05.005                    | 1    | Chock                              |
|             | 27     | 1220-4605501                  | 1    | Bracket                            |
|             | 28     | M20x1,5                       | 2    | Nut                                |
|             | 29     | 142-4605076 or<br>921-4605076 | 2    | Pin                                |
|             | 30     | 1220-4605675                  | 1    | Bracket                            |
|             | 31     | M12x35                        | 1    | Bolt                               |
|             | 32     | ШЧ 12                         | 1    | Washer                             |
|             | 33     | 50-4605069                    | 1    | Bushing                            |
|             | 34     | A61.07.002                    | 1    | Spring                             |
|             | 35     | M12                           | 1    | Nut                                |
|             | 36     | A61.02.100-03                 | 1    | Screw                              |
|             | 37     | A61.03.100                    | 1    | Pipe                               |
|             | 38     | A61.02.003                    | 1    | Lock nut                           |
|             | 39     | 1220-4605570                  | 1    | Screw with hinge Ø 32 (3 cat.)     |
|             |        | A61.02.100-04                 | 1    | Screw with hinge Ø 22,5            |
|             |        | A61.02.100-05                 | 1    | Screw with hinge Ø 25,7 (2 cat.)   |
|             | 40     | A61.03.002                    | 2    | Ring                               |
|             | 41     | A61.08.001-03                 | 2    | Chain (7 links)                    |
|             | 42     | A61.05.100-05                 | 1    | Chock with ring                    |

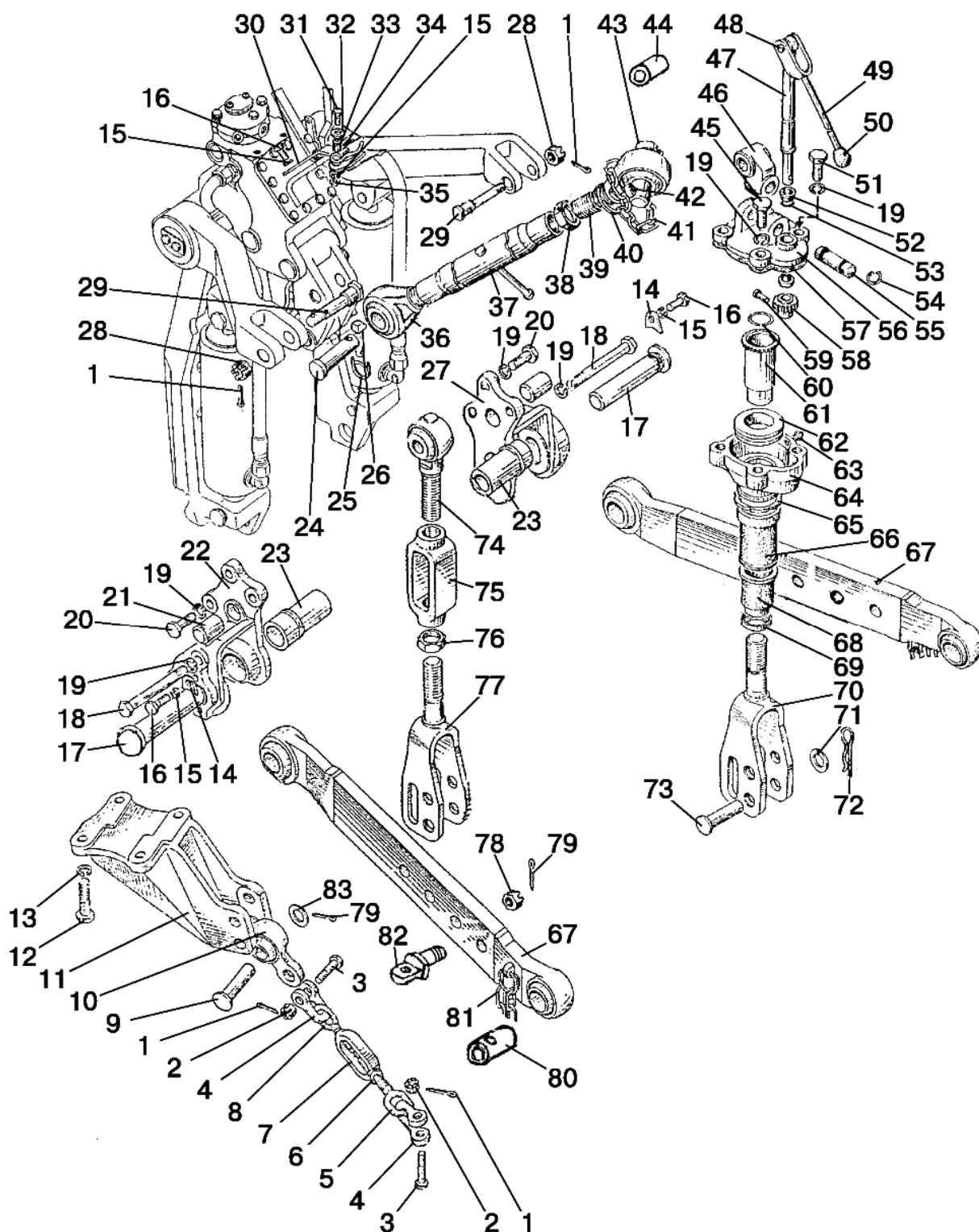


Fig. 46.2. Hydraulically operated lift linkage

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4605. Hydraulically operated lift linkage**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                         |
|-------------|--------|------------------------------|------|------------------------------|
| <b>46.2</b> | 43     | 1220-4605693                 | 1    | Pin Ø 31,75 (3 cat.)         |
|             |        | A61.02.001-01                | 1    | Pin Ø 25 (2 cat.)            |
|             |        | A61.02.001-02                | 1    | Pin Ø 22                     |
|             | 44     | 1220-4605557                 | 1    | Reducing bushing (to 2 cat.) |
|             | 45     | M16x40                       | 4    | Bolt                         |
|             | 46     | 1220-4605668-Б               | 2    | Clip                         |
|             | 47     | A61.01.600                   | 2    | Shaft                        |
|             | 48     | A61.01.016-Б                 | 2    | Axis                         |
|             | 49     | A61.01.400                   | 2    | Yoke                         |
|             | 50     | A61.01.014                   | 2    | Handle                       |
|             | 51     | 142-4605408                  | 4    | Bolt                         |
|             | 52     | A61.01.017                   | 4    | Bushing                      |
|             | 53     | 016-021-30-2-4               | 2    | Ring                         |
|             | 54     | 142-4605031                  | 4    | Ring                         |
|             | 55     | 142-4605404-Б                | 2    | Pin                          |
|             | 56     | 142-4605418-Б                | 2    | Cover                        |
|             | 57     | 142-4605421                  | 2    | Gasket                       |
|             | 58     | 142-4605413                  | 2    | Gear                         |
|             | 59     | A61.01.005                   | 2    | Axis                         |
|             | 60     | 142-4605403                  | 2    | Retainer                     |
|             | 61     | 142-4605425                  | 2    | Pipe                         |
|             | 62     | 8110                         | 2    | Bearing                      |
|             | 63     | 1.3.LJ6.xp                   | 2    | Oiler                        |
|             | 64     | 142-4605415                  | 2    | Housing                      |
|             | 65     | 142-4605402                  | 2    | Bushing                      |
|             | 66     | 142-4605407                  | 2    | Pipe                         |
|             | 67     | 1223-4605530-04              | 2    | Rod                          |
|             | 68     | 142-4605408                  | 2    | Cap                          |
|             | 69     | 142-4605401                  | 2    | Retainer                     |
|             | 70     | 1220-4605615                 | 2    | Yoke                         |
|             | 71     | 50-3503071                   | 2    | Washer                       |
|             | 72     | A61.07.001                   | 2    | Spring forelock              |
|             | 73     | 1220-4605084-01              | 2    | Pin                          |
|             | 74     | 1220-4605075                 | 1    | Screw                        |
|             | 75     | 1220-4605422                 | 1    | Stabilizer                   |
|             | 76     | 1220-4605424                 | 1    | Lock nut                     |
|             | 77     | 1220-4605620-Б               | 1    | Yoke                         |
|             | 78     | 70-4605316                   | 2    | Nut                          |
|             | 79     | 5x36                         | 2    | Forelock                     |
|             | 80     | 1220-4605558                 | 2    | Reducing bushing (to 2 cat.) |
|             | 81     | A61.05.100                   | 2    | Chock                        |
|             | 82     | 1220-4605108                 | 2    | Ear                          |
|             | 83     | ШЧ 16                        | 2    | Washer                       |

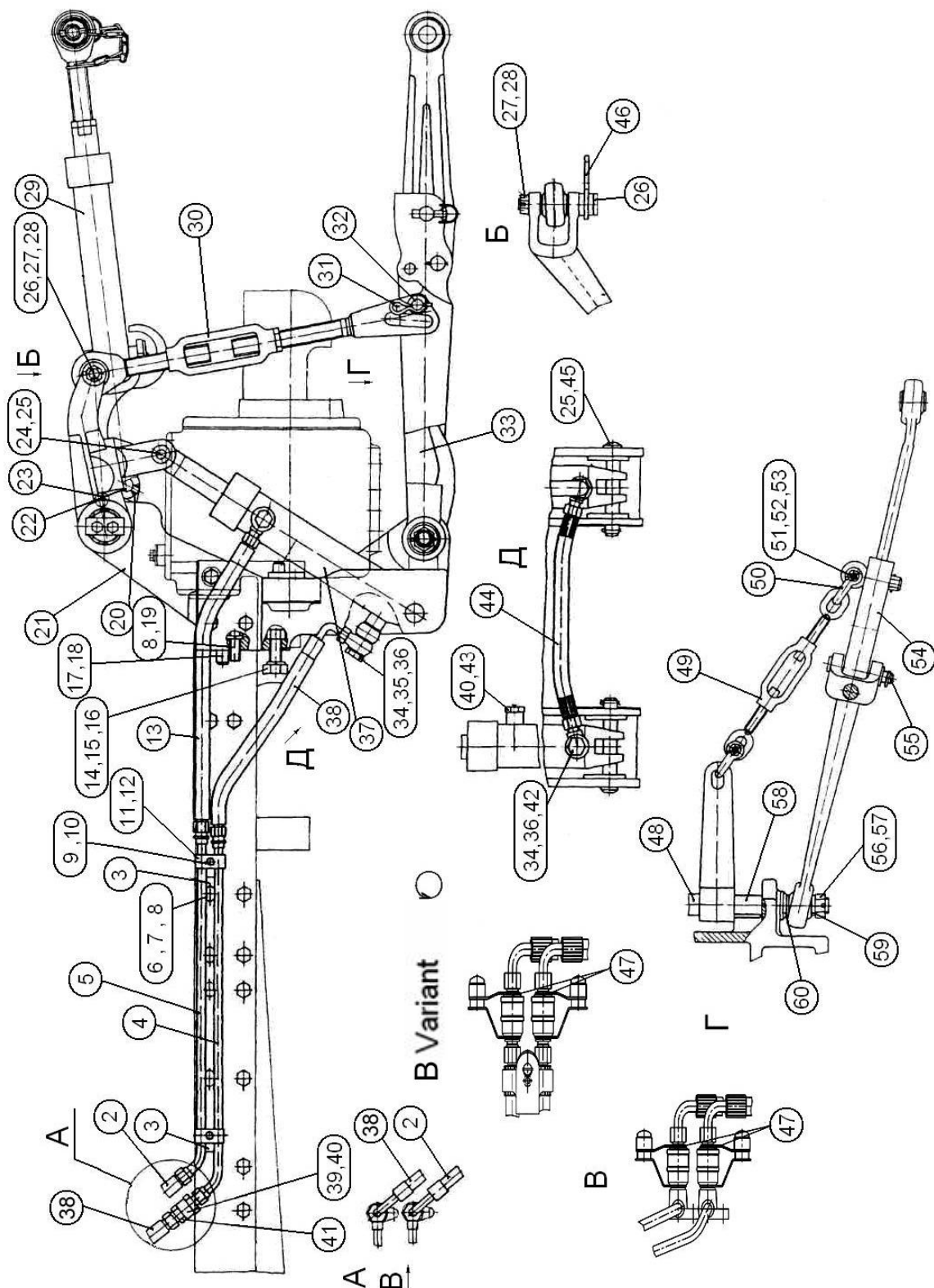


Fig. 46.3. Front lift linkage

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4606. Front lift linkage**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                 |
|-------------|--------|------------------------------|------|--------------------------------------|
| <b>46.3</b> | 2      | 680-4607140-04               | 1    | High pressure hose Ø 10x1 armoured   |
|             | 3      | 80-4607554                   | 2    | Bracket                              |
|             | 4      | 1522-4606550-01              | 1    | Pipe                                 |
|             | 5      | 1522-4606550                 | 1    | Pipe                                 |
|             | 6      | M16x50                       | 2    | Bolt                                 |
|             | 7      | M16                          | 1    | Nut                                  |
|             | 8      | ШП 16                        | 10   | Washer                               |
|             | 9      | M8x35                        | 2    | Bolt                                 |
|             | 10     | ШП 8                         | 2    | Washer                               |
|             | 11     | 70-3407146                   | 2    | Plate                                |
|             | 12     | 70-3506027                   | 4    | Bushing                              |
|             | 13     | H.036.83.140                 | 1    | High pressure hose Ø 12,5x2 armoured |
|             | 14     | 70-4605036                   | 2    | Bolt                                 |
|             | 15     | M20                          | 2    | Nut                                  |
|             | 16     | ШП 20                        | 2    | Washer                               |
|             | 17     | 50-4605027                   | 4    | Pin                                  |
|             | 18     | 54.38.619                    | 4    | Lock ring                            |
|             | 19     | M16x45                       | 8    | Bolt                                 |
|             | 20     | 8x45                         | 1    | Pin                                  |
|             | 21     | 1220-4606110                 | 1    | Bracket                              |
|             | 22     | 1220-4606014                 | 1    | Axis                                 |
|             | 23     | 1.3.Л9.xp                    | 2    | Oiler                                |
|             | 24     | 680-4605037                  | 2    | Pin                                  |
|             | 25     | 5x36                         | 4    | Forelock                             |
|             | 26     | 50-4605076                   | 2    | Pin                                  |
|             | 27     | 70-3003032                   | 2    | Nut                                  |
|             | 28     | 4x36                         | 2    | Forelock                             |
|             | 29     | 1220-4606040-A               | 1    | Upper link                           |
|             | 30     | 1220-4606150                 | 2    | Lifting rod                          |
|             | 31     | A61.07.001                   | 2    | Forelock                             |
|             | 32     | ШЧ 18                        | 2    | Washer                               |
|             | 33     | 50-4605030-A3-03             | 1    | Rod                                  |
|             | 34     | 40-4607038-A                 | 7    | Washer                               |
|             | 35     | C80-4607332                  | 1    | Bolt                                 |
|             | 36     | 530-4614029                  | 4    | Elbow                                |
|             | 37     | 4600.03                      | 2    | Hydraulic cylinder Л63x40x200        |
|             | 38     | 680-4607140-05               | 2    | High pressure hose Ø 10x1 armoured   |
|             | 39     | K1221-4607023                | 1    | Union body                           |
|             | 40     | 017-022-30-1-4               | 1    | Ring                                 |
|             | 41     | H.036.65.000 A2-02           | 1    | Reduction valve                      |
|             | 42     | 40-4607032                   | 2    | Clamp bolt                           |
|             | 43     | H.036.77.000                 | 1    | Breather                             |
|             | 44     | ПН.036.83.010                | 1    | High pressure hose Ø 10x1 armoured   |
|             | 45     | 680-4605037-01               | 2    | Pin                                  |
|             | 46     | 1220-4606090                 | 1    | Detent                               |
|             | 47     | M 036.50Б.20                 | 2    | Right housing                        |
|             | 48     | 50-4605018-Б                 | 1    | Bushing                              |

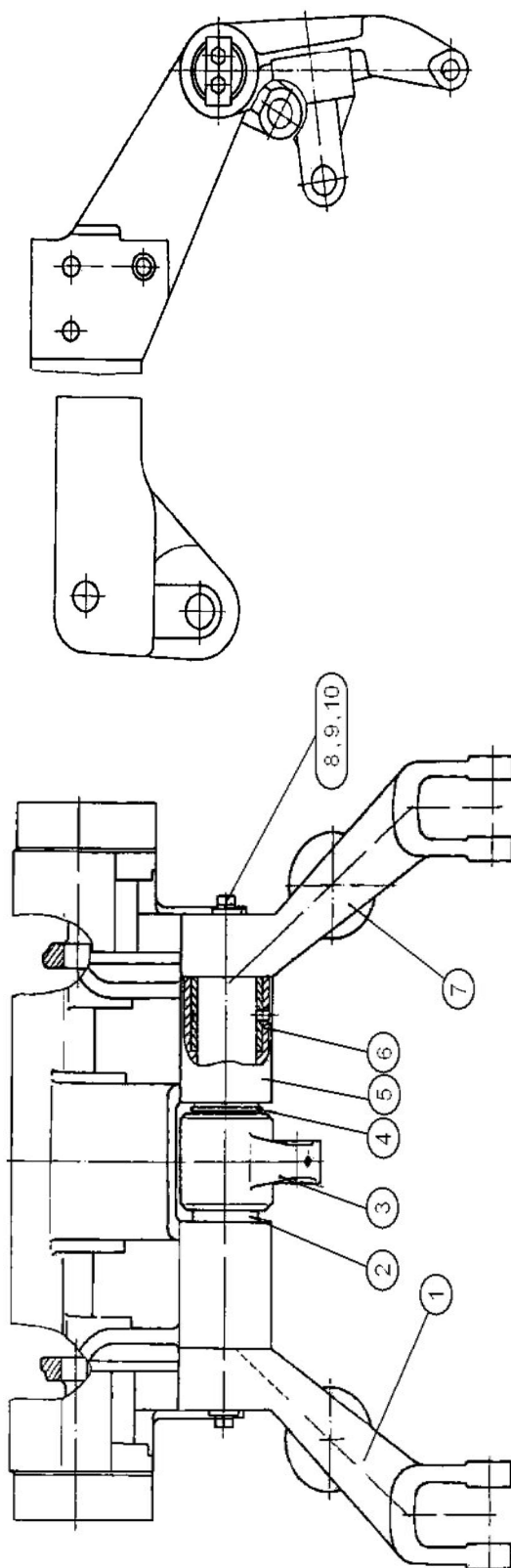


Fig. 46.4. Bracket

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4606. Bracket**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name    |
|-------------|--------|------------------------------|------|---------|
| <b>46.4</b> | 1      | 1220-4606020                 | 1    | Lever   |
|             | 2      | 70-4605023                   | 1    | Shaft   |
|             | 3      | 1220-4606013                 | 1    | Lever   |
|             | 4      | 2C65                         | 1    | Ring    |
|             | 5      | 1220-4606011                 | 1    | Bracket |
|             | 6      | 70-4605032                   | 2    | Bushing |
|             | 7      | 1220-4606020-01              | 1    | Lever   |
|             | 8      | ШП 12                        | 4    | Washer  |
|             | 9      | M12x25                       | 4    | Bolt    |
|             | 10     | 40-4605023-A2                | 2    | Washer  |



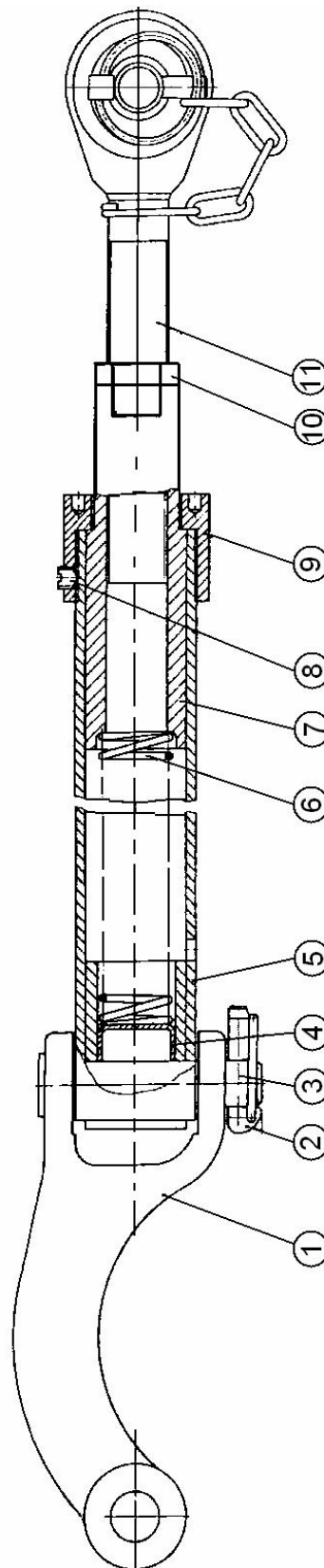


Fig. 46.5. Upper link

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4606. Upper link**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name          |
|-------------|--------|------------------------------|------|---------------|
| <b>46.5</b> | 1      | 1220-4606042                 | 1    | Clip          |
|             | 2      | A61.05.000                   | 1    | Chock         |
|             | 3      | A61.10.001-02                | 1    | Pin           |
|             | 4      | 40-4211082                   | 1    | Blind plug    |
|             | 5      | 2822-4606050                 | 1    | Pipe          |
|             | 6      | 1220-4606043                 | 1    | Spring        |
|             | 7      | 2822-4606041                 | 1    | Sliding block |
|             | 8      | BM10x10                      | 1    | Screw         |
|             | 9      | 1220-4606044                 | 1    | Nut           |
|             | 10     | A61.02.003                   | 1    | Lock nut      |
|             | 11     | A61.03.200-01                | 1    | Screw         |

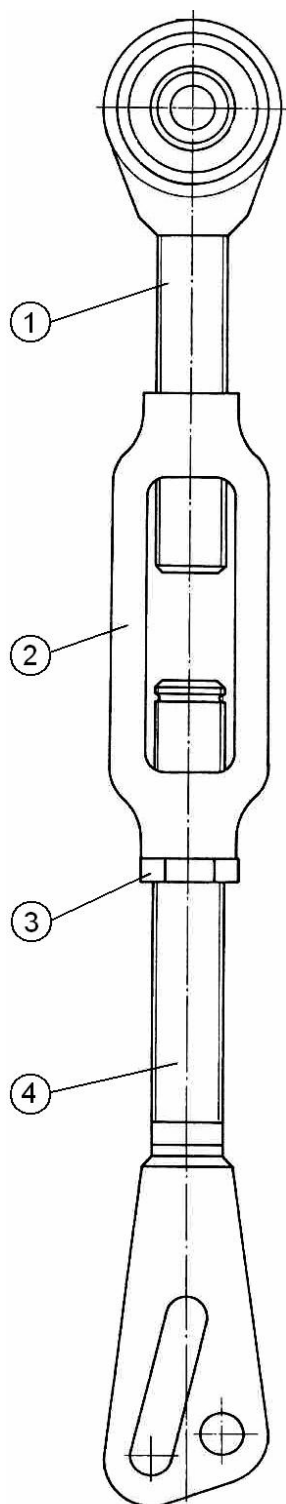


Fig. 46.6. Lifting rod

**Group 46. Remote-cylinder hydraulic system**  
**Subgroup 4606. Lifting rod**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name        |
|-------------|--------|------------------------------|------|-------------|
| <b>46.6</b> |        | 1220-4606150                 | 1    | Lifting rod |
|             | 1      | 1220-4606160                 | 1    | Screw       |
|             | 2      | A61.02.001                   | 1    | Stabilizer  |
|             | 3      | A61.02.003                   | 1    | Lock nut    |
|             | 4      | 70-4605100                   | 1    | Yoke        |

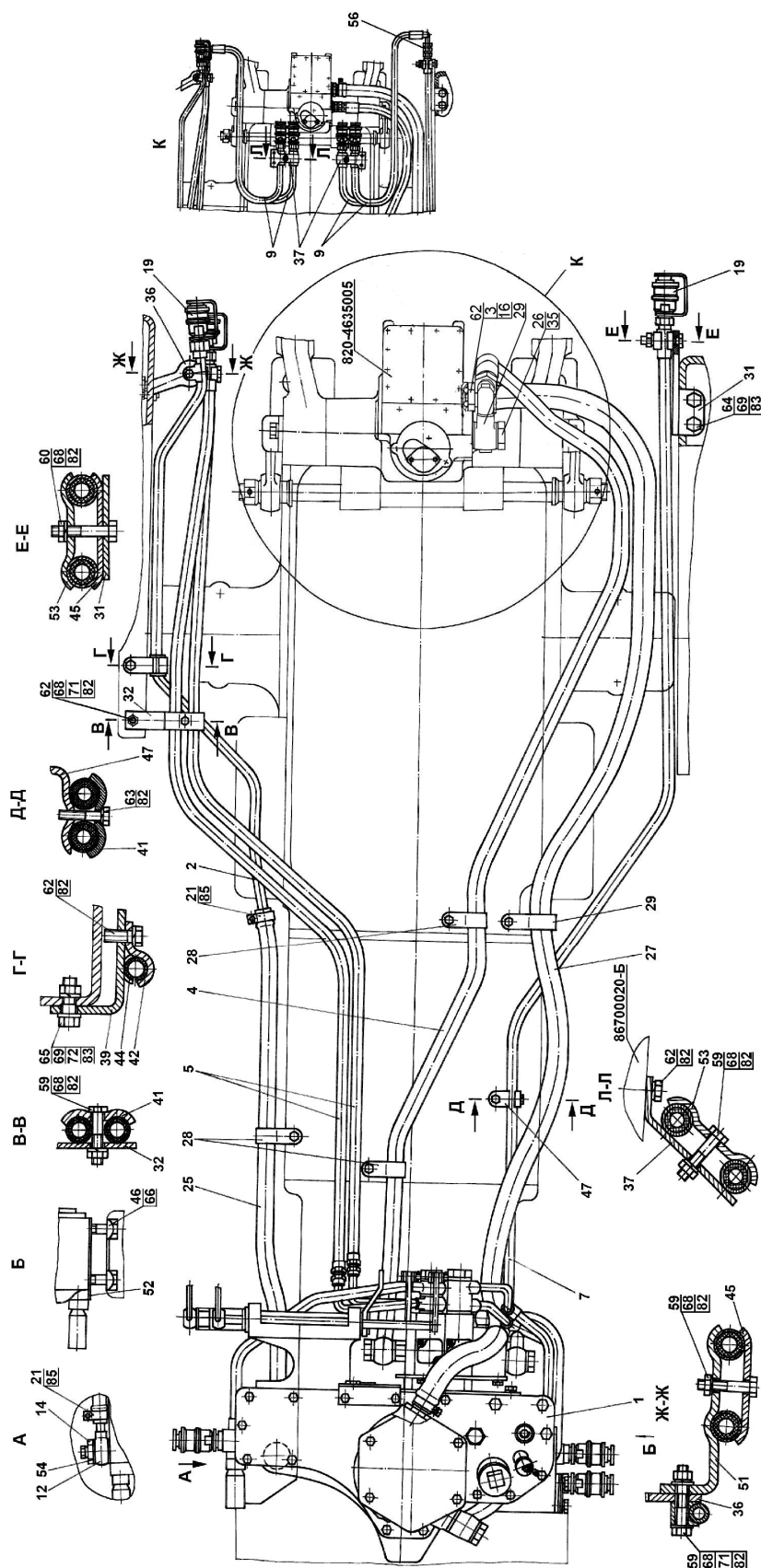


Fig. 46.7a. Hydraulic units and fittings

**Group 46. Hydraulic system**  
**Subgroup 4607. Hydraulic units and fittings**

| Fig.No       | Pos.No | Assembly unit or part number  | Q-ty   | Name                                           |
|--------------|--------|-------------------------------|--------|------------------------------------------------|
| <b>46.7a</b> |        | M1221-4600010                 | 1      | Hydraulic system                               |
|              | 1      | M1221-4600015                 | 1      | Hydraulic system housing                       |
|              | 2      | K1221-4607125                 | 1      | Pipe                                           |
|              | 3      | 85-4607034                    | 1      | Union body                                     |
|              | 4      | П80-4607120                   | 1      | High pressure hose $\phi 16 \times 2$ armoured |
|              | 5      | П100-4607140-01               | 2      | High pressure hose $\phi 10 \times 1$ armoured |
|              | 7      | 680-4607140-02                | 2      | High pressure hose $\phi 10 \times 1$ armoured |
|              | 12     | C80-4607380                   | 1      | Pipe                                           |
|              | 14     | 80-4607455                    | 1      | Bolt                                           |
|              | 19     | M036.50Б.10 or HP10-3MX0041AO | 5<br>5 | Left housing<br>Coupling                       |
|              | 21     |                               | 2      | Clamp XC-21 or Clamp "NORMA" TORRO 16-25/9-C6W |
|              | 22     |                               | 2      | Clamp XC-31 or "NORMA" TORRO 25-40/9-C6W       |
|              | 25     | K1221-4607011                 | 1      | Hose                                           |
|              | 26     | 40-4607037                    | 1      | Bolt                                           |
|              | 27     | П80-4607012                   | 1      | Hose                                           |
|              | 28     | П80-4607013                   | 3      | Clamp                                          |
|              | 29     | П80-4607013-01                | 1      | Clamp                                          |
|              | 30     | П80-4607016                   | 1      | Union body                                     |
|              | 31     | M80-4607014                   | 1      | Bracket                                        |
|              | 32     | 80B-4607209                   | 1      | Bracket                                        |
|              | 35     | 40-4607033-A or PM24          | 2      | Washer                                         |
|              | 36     | 85-4607431                    | 1      | Bracket                                        |
|              | 38     | P1221-4607070                 | 1      | Union body                                     |
|              | 39     | 1321-3407022                  | 1      | Bracket                                        |
|              | 41     | 70-3407146                    | 2      | Plate                                          |
|              | 42     | 70-3407163-01                 | 1      | Joke                                           |
|              | 44     | 70-3506027                    | 1      | Bushing                                        |
|              | 45     | 70-4607156                    | 2      | Plate                                          |
|              | 46     | 70-4607168                    | 2      | Plate                                          |
|              | 47     | 70-4607178                    | 1      | Bracket                                        |
|              | 51     | H50-4607137                   | 1      | Bracket                                        |
|              | 52     | 50-4608049                    | 1      | Gasket                                         |
|              | 53     | 40-4607029-A                  | 3      | Plate                                          |
|              | 54     | 40-4607038-A or PM 1/2        | 2      | Washer                                         |
|              | 59     |                               | 3      | Bolt M8-6gx40.88.35.019 GOST 7795-70           |
|              | 60     |                               | 1      | Bolt M8-6gx45.88.35.019 GOST 7795-70           |
|              | 62     |                               | 2      | Bolt M8-6gx25.88.35.019 GOST 7796-70           |
|              | 63     |                               | 1      | Bolt M8-6gx35.88.35.019 GOST 7796-70           |
|              | 64     |                               | 2      | Bolt M10-6gx25.88.35.019 GOST 7796-70          |
|              | 65     |                               | 1      | Bolt M10-6gx30.88.35.019 GOST 7796-70          |
|              | 66     |                               | 4      | Bolt M14x1,5-6gx45.88.35.019 GOST 7796-70      |
|              | 68     |                               | 5      | Nut M8-6H.6.019 GOST 5915-70                   |
|              | 69     |                               | 3      | Nut M10-6H.6.019 GOST 5915-70                  |
|              | 71     |                               | 3      | Washer C 8.01.019 GOST 11371-78                |

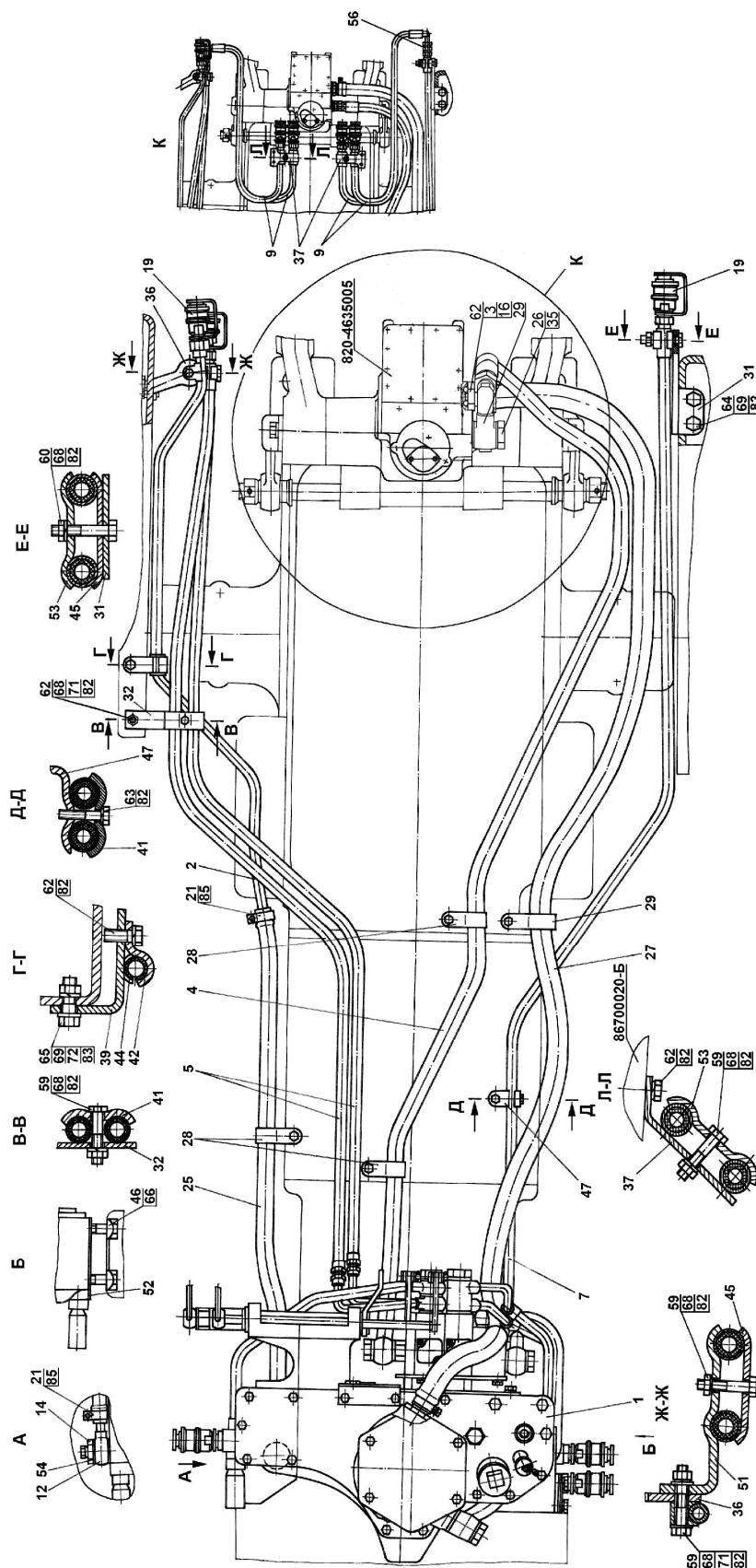


Fig. 46.7a. Hydraulic units and fittings

**Group 46. Hydraulic system**

**Subgroup 4607. Hydraulic units and fittings**

| Fig.No       | Pos.No | Assembly unit or part number     | Q-ty | Name                                                   |
|--------------|--------|----------------------------------|------|--------------------------------------------------------|
| <b>46.7a</b> | 72     |                                  | 1    | Washer C 10.01.019 GOST 11371-78                       |
|              | 79     |                                  | 1    | Ring 021-024-19-2-2<br>GOST 18829-73/GOST 9833-73      |
|              | 80     |                                  | 1    | Ring 027-032-30-1-4<br>GOST 18829-73/GOST 9833-73      |
|              | 82     |                                  | 7    | Washer 8T OST 37.001.115-75                            |
|              | 83     |                                  | 3    | Washer 10 OT OST 37.001.115-75                         |
|              |        | M036.50Б.20 or<br>HP10-4MX0041A0 | 6    | Right housing<br>Attaching plug (packed into SPTA kit) |

**Optional equipment (upon request)**

| Fig.No       | Pos.No | Assembly unit or part number | Q-ty | Name                                 |
|--------------|--------|------------------------------|------|--------------------------------------|
| <b>46.7a</b> | 9      | 680-4607140-06               | 4    | High pressure hose Ø 10x1 armoured   |
|              | 37     | 85-4607511                   | 2    | Bracket                              |
|              | 53     | 40-4607029-A                 | 2    | Plate                                |
|              | 56     | H.036.02.002                 | 4    | Through adapter                      |
|              | 59     |                              | 2    | Bolt M8-6gx40.88.35.019 GOST 7795-70 |
|              | 62     |                              | 4    | Bolt M8-6gx25.88.35.019 GOST 7796-70 |
|              | 68     |                              | 2    | Nut M8-6H.6.019 GOST 5915-70         |
|              | 82     |                              | 6    | Washer 8T OST 37.001.115-74          |



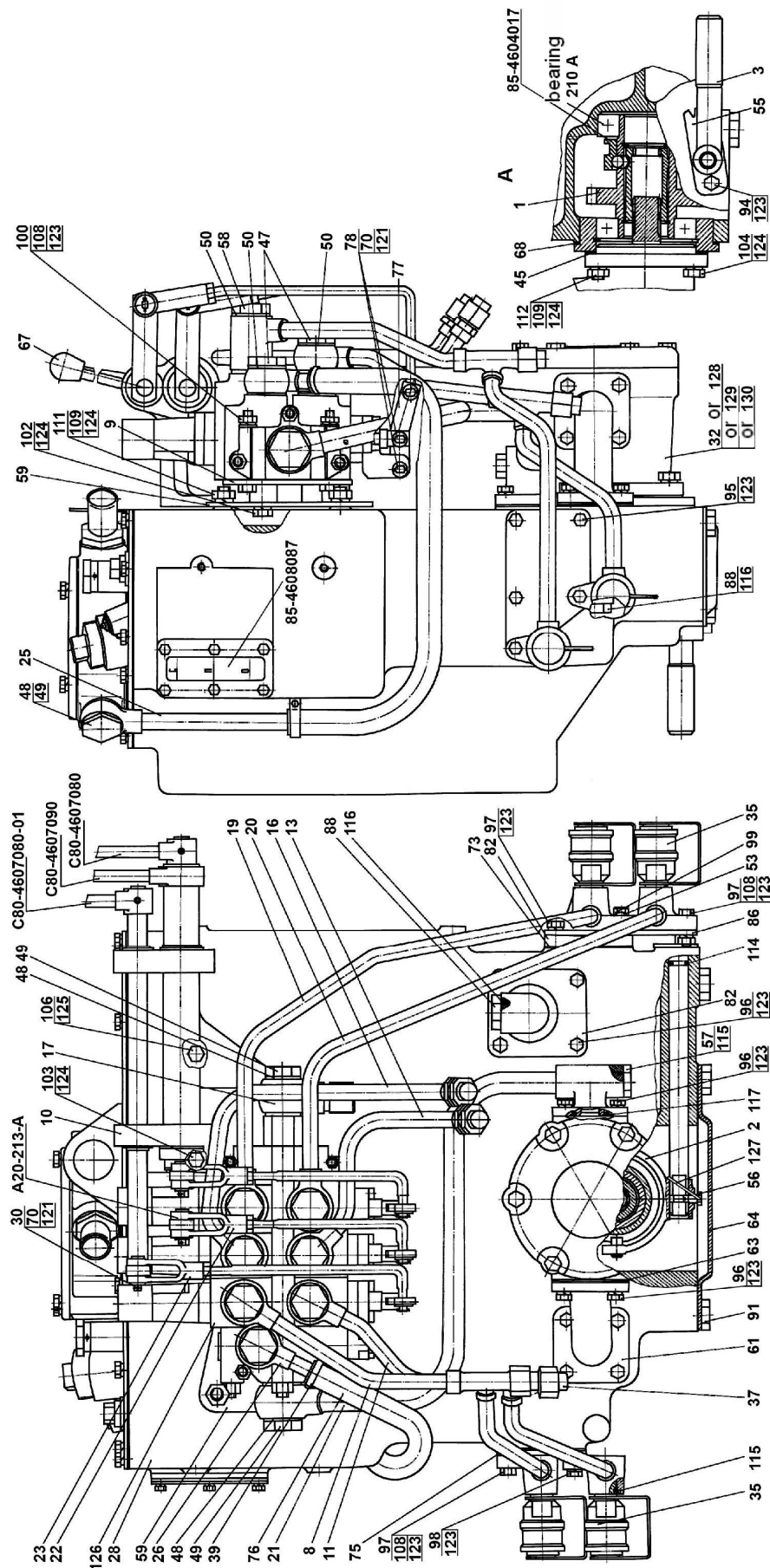


Fig. 46.76. Hydraulic units and fittings

**Group 46. Hydraulic system**

**Subgroup 4607. Hydraulic units and fittings**

| Fig.No       | Pos.No | Assembly unit or part number                         | Q-ty   | Name                                     |
|--------------|--------|------------------------------------------------------|--------|------------------------------------------|
| <b>46.76</b> |        | M1221-4600015                                        | 1      | Hydraulic system                         |
|              | 1      | 85-4604010                                           | 1      | Pump drive                               |
|              | 2      | 85-4604030                                           | 1      | Yoke                                     |
|              | 3      | 85-4604040                                           | 1      | Disengaging lever                        |
|              | 8      | C85-4607025                                          | 1      | Pipe                                     |
|              | 9      | C80-4607030                                          | 1      | Bracket                                  |
|              | 10     | 80-4607040-04                                        | 1      | Bracket                                  |
|              | 11     | C85-4607045                                          | 1      | Pipe                                     |
|              | 13     | C85-4607060-B                                        | 1      | Pipe                                     |
|              | 16     | C85-4607080-B                                        | 1      | Pipe                                     |
|              | 17     | 952-4607080                                          | 1      | Union body                               |
|              | 19     | C85-4607100                                          | 1      | Pipe                                     |
|              | 20     | C85-4607105                                          | 1      | Pipe                                     |
|              | 21     | C80-4607075-Г                                        | 1      | Pipe                                     |
|              | 22     | C80-4607260                                          | 2      | Rod                                      |
|              | 23     | C80-4607260-01                                       | 1      | Rod                                      |
|              | 25     | C80-4607375                                          | 1      | Pipe                                     |
|              | 26     | C80-4607380                                          | 1      | Pipe                                     |
|              | 28     | 85-4608010                                           | 1      | Hydraulic system housing                 |
|              | 30     | A61-030-A1                                           | 3      | Pin                                      |
|              | 32     | HШ32М-3 or<br>HШ32МА-3 or<br>HШ32Д-3 or<br>HШ32УКФ-3 | 1      | Gear-type pump                           |
|              | 35     | M036.50Б.10 or<br>HP10-3МХА0                         | 4<br>4 | Left housing<br>Coupling                 |
|              | 37     | H.036.12.010                                         | 4      | Blind plug                               |
|              | 39     |                                                      | 2      | Clamp XC-31 or "NORMA" TORRO 25-40/9-C6W |
|              | 45     | 36-1022054-A                                         | 1      | Gasket                                   |
|              | 47     | 40-4607032                                           | 6      | Clamp bolt                               |
|              | 48     | 40-4607033-A-01 or<br>PM 24                          | 6      | Washer                                   |
|              | 49     | 40-4607037                                           | 3      | Bolt                                     |
|              | 50     | 40-4607038-A-01 or<br>PM 1/2                         | 14     | Washer                                   |
|              | 53     | 50-3401092                                           | 1      | Washer                                   |
|              | 55     | 50-4604044                                           | 1      | Plate                                    |
|              | 56     | 50-4604046                                           | 1      | Yoke bolt                                |
|              | 57     | 50-4608027-B                                         | 1      | Plug                                     |
|              | 58     | 50-4607031                                           | 1      | Bolt                                     |
|              | 59     | 50-4607032-B                                         | 1      | Bracket                                  |
|              | 61     | 70-4607096-A                                         | 1      | Tube                                     |
|              | 63     | 50-4607097                                           | 4      | Gasket                                   |
|              | 64     | 50-4607099                                           | 1      | Cover                                    |
|              | 67     | 70-3401093                                           | 3      | Lever tip                                |
|              | 68     | 70-4604037                                           | 1      | Gasket                                   |
|              | 70     | 70-4607144                                           | 12     | Washer                                   |
|              | 73     | 70-4608033                                           | 3      | Gasket                                   |
|              | 75     | 80-4608019                                           | 1      | Cover                                    |
|              | 76     | C80-4607063                                          | 1      | Hose                                     |



**Subgroup 4607. Hydraulic units and fittings**

| Fig.No       | Pos.No | Assembly unit or part number     | Q-ty | Name                                                      |
|--------------|--------|----------------------------------|------|-----------------------------------------------------------|
| <b>46.76</b> | 77     | C80-4607086                      | 3    | Lever                                                     |
|              | 78     | C80-4607088                      | 6    | Pin                                                       |
|              | 82     | 85-3407101                       | 2    | Tube                                                      |
|              | 86     | 85-4607432                       | 1    | Bracket                                                   |
|              | 88     | 85-4608021                       | 2    | Plug                                                      |
|              | 91     | 1221-1802091                     | 2    | Thread plug                                               |
|              | 94     |                                  | 2    | Bolt M8-6gx16.88.35.019 GOST 7796-70                      |
|              | 95     |                                  | 3    | Bolt M8-6gx20.88.35.019 GOST 7796-70                      |
|              | 96     |                                  | 18   | Bolt M8-6gx25.88.35.019 GOST 7796-70                      |
|              | 97     |                                  | 3    | Bolt M8-6gx30.88.35.019 GOST 7796-70                      |
|              | 98     |                                  | 1    | Bolt M8-6gx35.88.35.019 GOST 7796-70                      |
|              | 99     |                                  | 1    | Bolt M8-6gx45.88.35.019 GOST 7795-70                      |
|              | 100    |                                  | 4    | Bolt M8-6gx65.88.35.019 GOST 7796-70                      |
|              | 102    |                                  | 3    | Bolt M10-6gx20.88.35.019 GOST 7796-70                     |
|              | 103    |                                  | 1    | Bolt M10-6gx30.88.35.019 GOST 7796-70                     |
|              | 104    |                                  | 2    | Bolt M10-6gx40.88.35.019 GOST 7796-70                     |
|              | 106    |                                  | 2    | Bolt M12-6gx35.88.35.019 GOST 7796-70                     |
|              | 108    |                                  | 6    | Nut M8-6H.6.019 GOST 5915-70                              |
|              | 109    |                                  | 5    | Nut M10-6H.6.019 GOST 5915-70                             |
|              | 111    |                                  | 3    | Stud M10 3p/6gx20.66.019 GOST 22034-76                    |
|              | 112    |                                  | 2    | Stud M10 3p/6gx35.66.019 GOST 22034-76                    |
|              | 114    |                                  | 1    | Ring 013-017-25-1-4<br>GOST 18829-73/GOST 9833-73         |
|              | 115    |                                  | 5    | Ring 017-022-30-1-4<br>GOST 18829-73/GOST 9833-73         |
|              | 116    |                                  | 2    | Ring 021-025-25-1-4<br>GOST 18829-73/GOST 9833-73         |
|              | 117    |                                  | 1    | Ring 035-040-30-1-4<br>GOST 18829-73/GOST 9833-73         |
|              | 121    |                                  | 12   | Forelock 3,2x18.019 GOST 397-79                           |
|              | 123    |                                  | 32   | Washer 8T OST 37.001.115-75                               |
|              | 124    |                                  | 11   | Washer 10 OT OST 37.001.115-75                            |
|              | 125    |                                  | 2    | Washer 12 OT OST 37.001.115-75                            |
|              | 126    |                                  | 1    | Distributor RS-213 Mita                                   |
|              | 127    |                                  | 1    | Wire 1,0-O-C GOST 3282-74 (250 mm)                        |
|              |        | M036.50Б.20 or<br>HP10-4MX0041A0 | 6    | Right housing<br>Attaching plug<br>(packed into SPTA kit) |

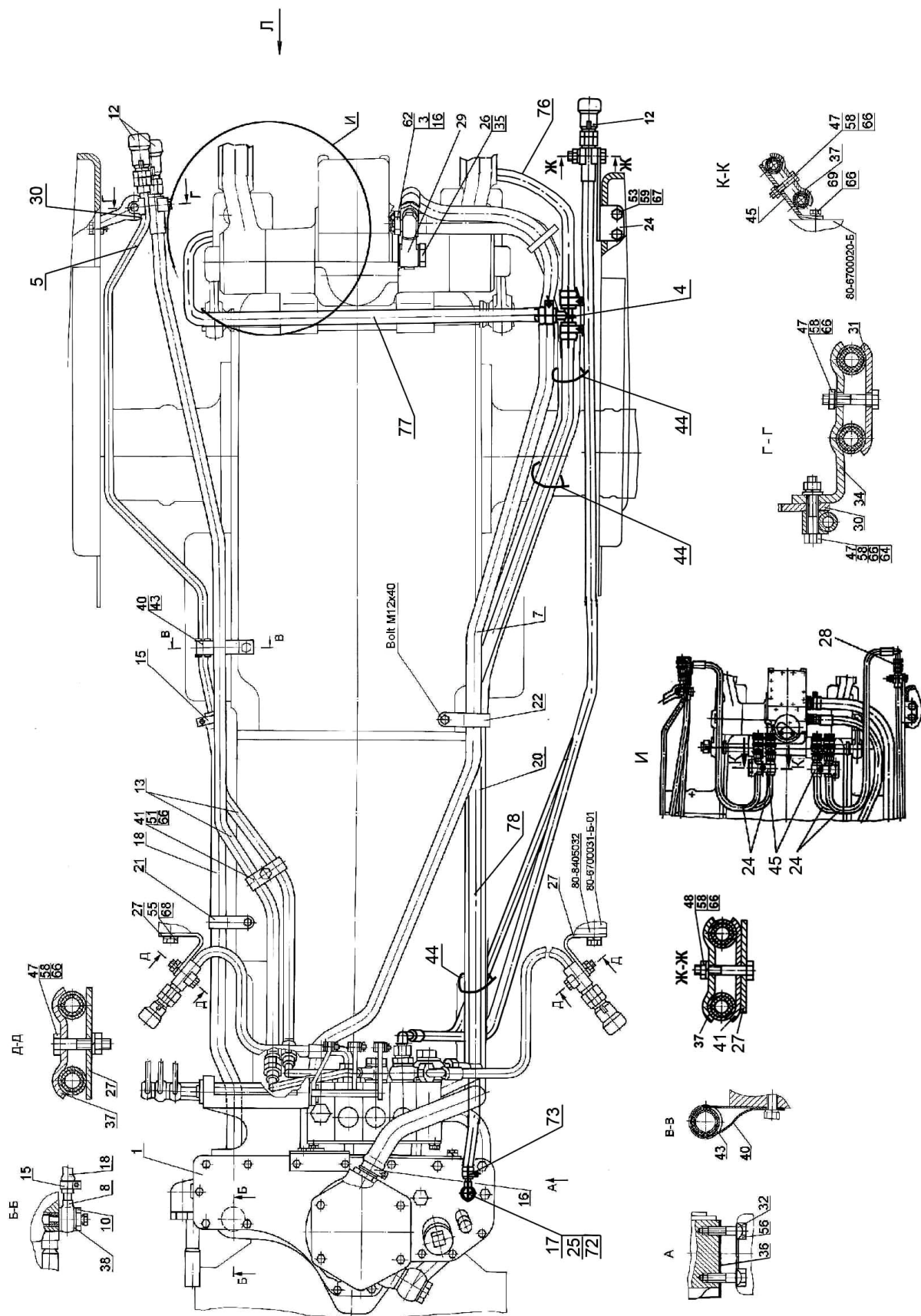


Fig. 46.7B. Hydraulic units and fittings

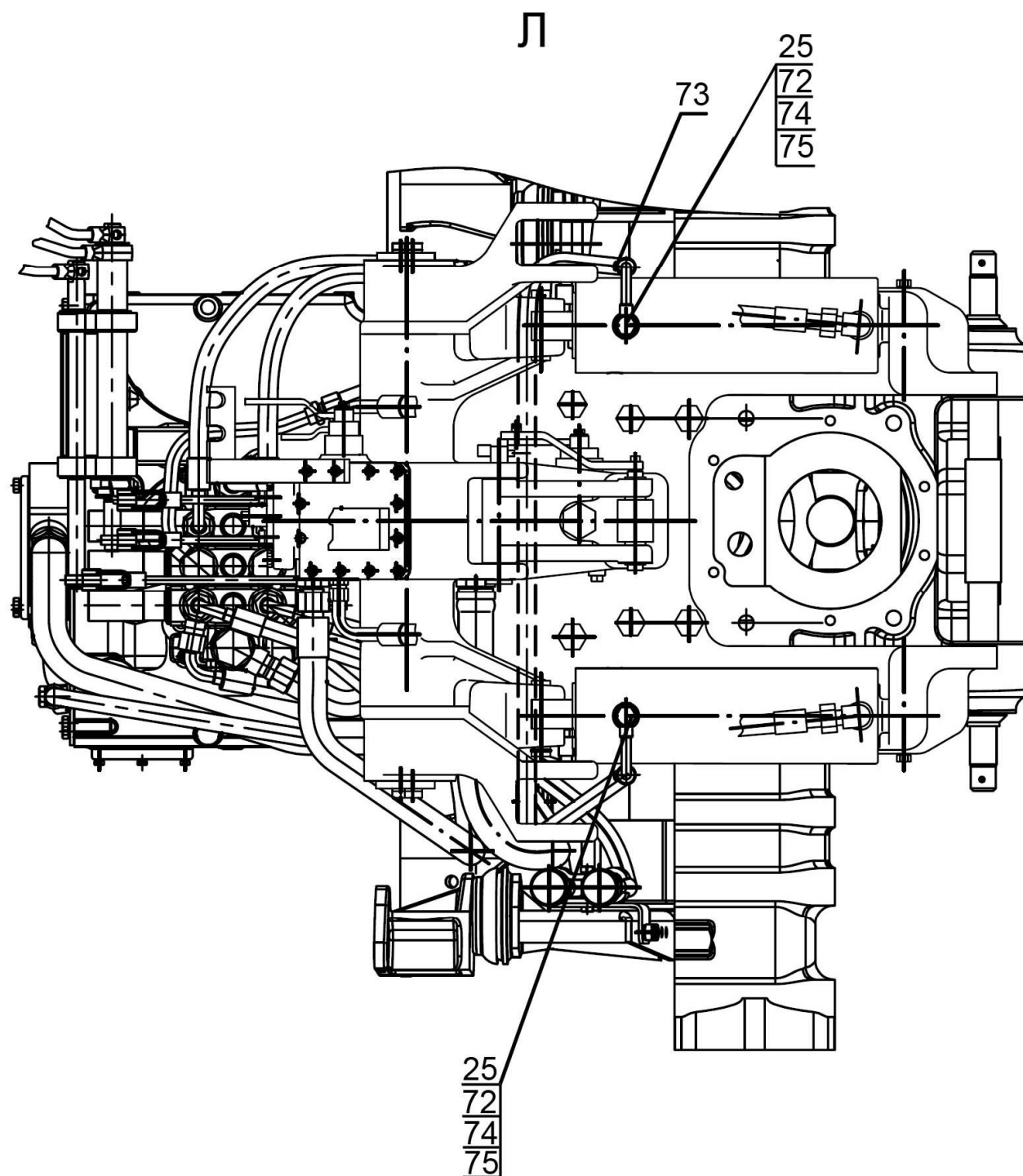


Fig. 46.7r. Hydraulic units and fittings

**Group 46. Hydraulic system**  
**Subgroup 4607. Hydraulic system P1221-4600010**

| Fig.No                       | Pos.No | Designation                         | Q-ty | Name                                           |
|------------------------------|--------|-------------------------------------|------|------------------------------------------------|
| <b>46.7B</b><br><b>46.7r</b> |        | P1221-4600010                       | 1    | Hydraulic system                               |
|                              | 1      | P1221-4600015                       | 1    | Hydraulic system housing                       |
|                              | 3      | 85-4607034                          | 1    | Union body                                     |
|                              | 4      | 3022-4607120                        | 1    | Three-way pipe                                 |
|                              | 5      | K1221-4607125                       | 1    | Pipe                                           |
|                              | 7      | 952-4607140-04                      | 1    | High pressure hose $\phi 16 \times 2$ armoured |
|                              | 8      | C80-4607380                         | 1    | Pipe                                           |
|                              | 10     | 80-4607455                          | 1    | Bolt                                           |
|                              | 12     | M036.50Б.10 or<br>HP10-3MX0041A0    | 3    | Left housing<br>Coupling                       |
|                              | 13     | П100-4607140-01                     | 2    | High pressure hose $\phi 10 \times 1$ armoured |
|                              | 15     |                                     | 2    | Clamp XC-21 or "NORMA" TORRO 16-25/9-C6W       |
|                              | 16     |                                     | 2    | Clamp XC-31 or "NORMA" TORRO 25-40/9-C6W       |
|                              | 17     | $\phi 80$ -3407720                  | 1    | Oil pipeline                                   |
|                              | 18     | K1221-4607011                       | 1    | Hose                                           |
|                              | 20     | П80-4607012                         | 1    | Hose                                           |
|                              | 21     | П80-4607013                         | 1    | Clamp                                          |
|                              | 22     | П80-4607013-01                      | 2    | Clamp                                          |
|                              | 25     | Д18-051                             | 3    | Bolt                                           |
|                              | 26     | 40-4607037                          | 1    | Bolt                                           |
|                              | 27     | M80-4607017                         | 2    | Bracket                                        |
|                              | 29     | P1221-4607070                       | 1    | Union body                                     |
|                              | 30     | 85-4607431                          | 1    | Bracket                                        |
|                              | 31     | 70-4607156                          | 1    | Plate                                          |
|                              | 32     | 70-4607168                          | 2    | Plate                                          |
|                              | 34     | H50-4607137                         | 1    | Bracket                                        |
|                              | 35     | 40-4607033-A or<br>PM 24            | 2    | Washer                                         |
|                              | 36     | 50-4608049                          | 1    | Gasket                                         |
|                              | 37     | 40-4607029-A                        | 3    | Plate                                          |
|                              | 38     | 40-4607038-A or<br>PM 1/2           | 2    | Washer                                         |
|                              | 40     | 70-1405112                          | 1    | Clamp                                          |
|                              | 41     | 70-3407146                          | 1    | Plate                                          |
|                              | 43     | 70-3506027                          | 1    | Bushing                                        |
|                              | 44     | 80-3723045-01                       | 4    | Collar                                         |
|                              | 48     |                                     | 1    | Bolt M8-6gx45.88.35.019 GOST 7795-70           |
|                              | 51     |                                     | 2    | Bolt M8-6gx35.88.35.019 GOST 7796-70           |
|                              | 55     |                                     | 1    | Bolt M12-6gx30.88.35.019 GOST 7796-70          |
|                              | 56     |                                     | 4    | Bolt M14x1,5-6gx45.88.35.019 GOST 7796-70      |
|                              | 62     |                                     | 1    | Ring 027-032-30-1-4 GOST 18829-73/9833-73      |
|                              | 64     |                                     | 1    | Washer C 8.01.019 GOST 11371-78                |
|                              | 68     |                                     | 1    | Washer 10 OT OST 37.001.115-75                 |
|                              |        | M036.50Б.20 or<br>HP10-4MX0041A0 or | 6    | Right housing<br>Attaching plug                |
|                              |        |                                     |      | } (packed into SPTA kit)                       |

**Group 46. Hydraulic system**  
**Subgroup 4607. Hydraulic system P1221-4600010**

| Fig.No                       | Pos.No | Designation   | Q-ty | Name                                            |
|------------------------------|--------|---------------|------|-------------------------------------------------|
| <b>46.7B</b><br><b>46.7r</b> | 72     | PM14          | 6    | Washer                                          |
|                              | 73     |               | 6    | Clamp with worm thread 12-22                    |
|                              | 74     | 822-4801190   | 2    | Oil pipeline                                    |
|                              | 75     | P1221-4607101 | 2    | Union body                                      |
|                              | 76     | P1221-4607102 | 1    | Tube Hose10x18,5-1,6 GOST10362-76 L=(220±5) mm  |
|                              | 77     | P1221-4607103 | 1    | Tube Hose10x18,5-1,6 GOST10362-76 L=(850±5) mm  |
|                              | 78     | P1221-4607104 | 1    | Tube Hose10x18,5-1,6 GOST10362-76 L=(1920±5) mm |

**Optional equipment (upon request)**

| Fig.No                       | Pos.No | Assembly unit or part number | Q-ty | Name                                    |
|------------------------------|--------|------------------------------|------|-----------------------------------------|
| <b>46.7B</b><br><b>46.7r</b> | 24     | 680-4607140-06               | 4    | High pressure hose $\phi$ 10x1 armoured |
|                              | 28     | H.036.02.002                 | 4    | Through adapter                         |
|                              | 37     | 40-4607029-A                 | 2    | Plate                                   |
|                              | 45     | 85-4607511                   | 2    | Bracket                                 |
|                              | 47     | M8-6gx40.88.35.019           | 2    | Bolt GOST 7795-70                       |
|                              | 69     |                              | 4    | Bolt M8-6gx20.88.35.019 GOST 7796-70    |
|                              | 58     |                              | 2    | Nut M8-6H.6.019 GOST 5915-70            |
|                              | 66     |                              | 6    | Washer 8T OST 37.001.115-75             |



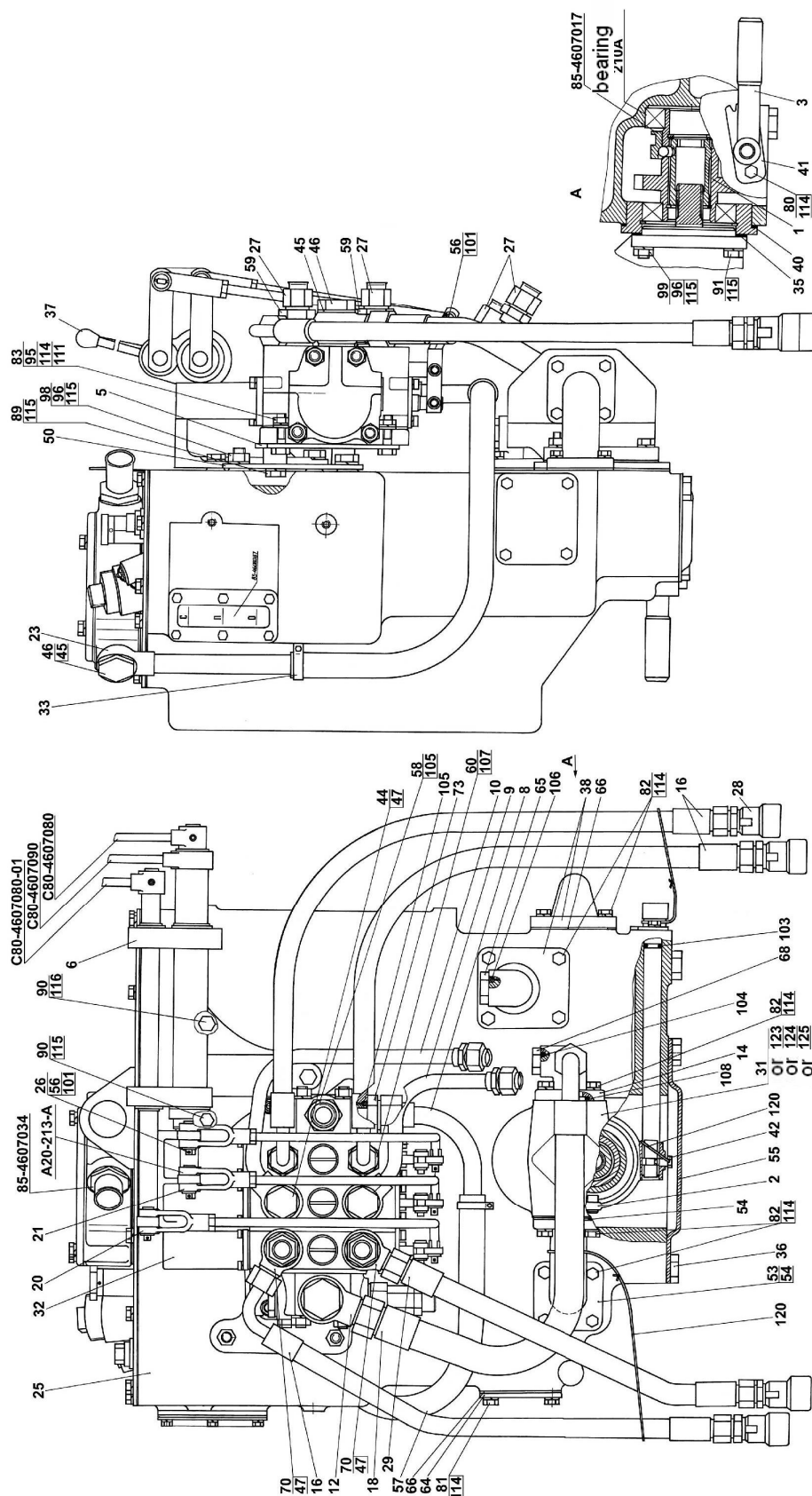


Fig. 46.7д. Hydraulic units and fittings

**Group 46. Hydraulic system**  
**Subgroup 4607. Hydraulic system housing P1221-4600015**

| Fig.No | Pos.No | Designation                                          | Q-ty | Name                                           |
|--------|--------|------------------------------------------------------|------|------------------------------------------------|
| 46.7д  |        | P1221-4600015                                        | 1    | Hydraulic system housing                       |
|        | 1      | 80-4604010                                           | 1    | Pump drive                                     |
|        | 2      | 85-4604030                                           | 1    | Yoke                                           |
|        | 3      | 85-4604040                                           | 1    | Disengaging lever                              |
|        | 5      | P1221-4607030                                        | 1    | Bracket                                        |
|        | 6      | 80-4607040-04                                        | 1    | Bracket                                        |
|        | 8      | P1221-4607050                                        | 1    | Pipe                                           |
|        | 9      | 85-4607060-Б                                         | 1    | Pipe                                           |
|        | 10     | 85-4607080-Б                                         | 1    | Pipe                                           |
|        | 12     | 952-4607080                                          | 2    | Union body                                     |
|        | 14     | Д80-4607100                                          | 1    | Tube                                           |
|        | 16     | 680-4607140-04                                       | 1    | High pressure hose $\phi 10 \times 1$ armoured |
|        | 18     | 952-4607140                                          | 1    | High pressure hose $\phi 16 \times 2$ armoured |
|        | 20     | P1221-4607260                                        | 1    | Rod                                            |
|        | 21     | P1221-4607260-01                                     | 2    | Rod                                            |
|        | 23     | 80Б-4607375                                          | 1    | Pipe                                           |
|        | 25     | 85-4608010                                           | 1    | Hydraulic system housing                       |
|        | 26     | A61-030-A1                                           | 3    | Pin                                            |
|        | 27     | H.036.12.010                                         | 4    | Blind plug                                     |
|        | 28     | M036.50Б.10                                          | 4    | Left housing                                   |
|        | 29     | ПН.036.83.040                                        | 3    | High pressure hose $\phi 10 \times 1$ armoured |
|        | 31     | НШ32М-3 or<br>НШ32МА-3 or<br>НШ32Д-3 or<br>НШ32УКФ-3 | 1    | Gear-type pump                                 |
|        | 32     | РП70-1221                                            | 1    | Distributor                                    |
|        | 33     |                                                      | 2    | Clamp XC-26 or "NORMA" TORRO 25-40/9-C6W       |
|        | 35     | 36-1022054-A                                         | 1    | Gasket                                         |
|        | 37     | 70-3401093                                           | 3    | Lever tip                                      |
|        | 38     | 85-3407101                                           | 2    | Tube                                           |
|        | 40     | 70-4604037                                           | 1    | Gasket                                         |
|        | 41     | 50-4604044                                           | 1    | Plate                                          |
|        | 42     | 50-4604046                                           | 1    | Yoke bolt                                      |
|        | 44     | 40-4607032                                           | 4    | Clamp bolt                                     |
|        | 45     | 40-4607033-A or PM 24                                | 6    | Washer                                         |
|        | 46     | 40-4607037                                           | 3    | Bolt                                           |
|        | 47     | 40-4607038-A or<br>PM 1/2                            | 12   | Washer                                         |
|        | 50     | 50-4607032-Б                                         | 1    | Bracket                                        |
|        | 53     | 50-4607096-A                                         | 1    | Tube                                           |
|        | 54     | 50-4607097                                           | 4    | Gasket                                         |
|        | 55     | 50-4607099                                           | 1    | Cover                                          |
|        | 56     | 70-4607144                                           | 6    | Washer                                         |
|        | 57     | M80-4607011                                          | 1    | Hose                                           |
|        | 59     | 952-4607061                                          | 2    | Union body                                     |
|        | 64     | 70-4608019                                           | 1    | Cover                                          |
|        | 65     | 85-4608021                                           | 2    | Plug                                           |
|        | 66     | 70-4608033                                           | 3    | Gasket                                         |
|        | 68     | 50-4608027-Б                                         | 1    | Plug                                           |
|        | 70     | 530-4614029                                          | 4    | Elbow                                          |
|        | 73     | H.036.04.011                                         | 1    | Mail pipe adapter                              |
|        | 80     |                                                      | 2    | Bolt M8-6gx16.88.35.019 GOST 7796-70           |
|        | 81     |                                                      | 4    | Bolt M8-6gx20.88.35.019 GOST 7796-70           |
|        | 82     |                                                      | 20   | Bolt M8-6gx25.88.35.019 GOST 7796-70           |

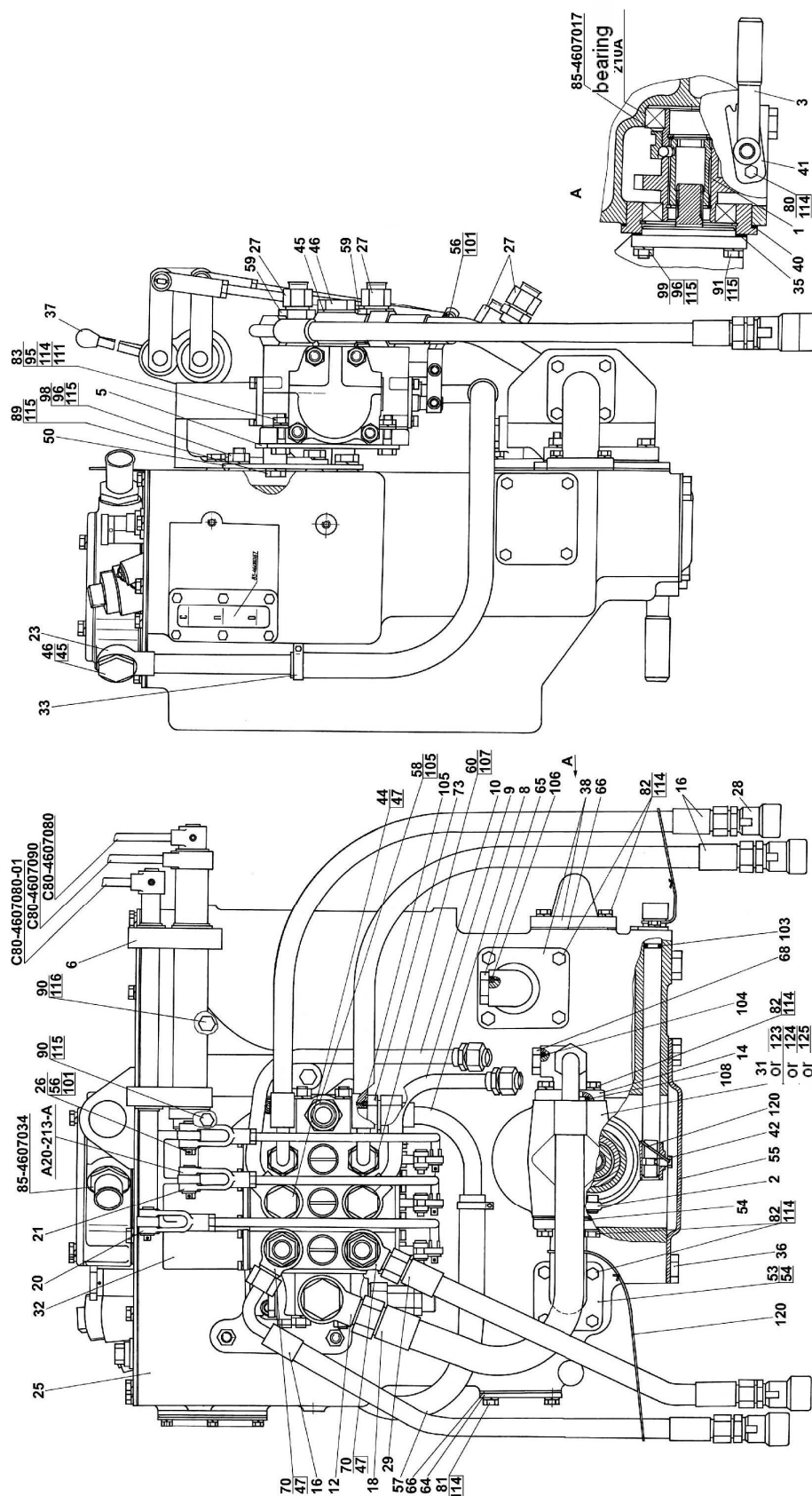


Fig. 46.7д. Hydraulic units and fittings

**Group 46. Hydraulic system**  
**Subgroup 4607. Hydraulic system housing P1221-4600015-02**

| Fig.No       | Pos.No | Designation | Q-ty | Name                                        |
|--------------|--------|-------------|------|---------------------------------------------|
| <b>46.7д</b> | 83     |             | 4    | Bolt M8-6gx30.88.35.019 GOST 7796-70        |
|              | 89     |             | 4    | Bolt M10-6gx20.88.35.019 GOST 7796-70       |
|              | 90     |             | 1    | Bolt M10-6gx30.88.35.019 GOST 7796-70       |
|              | 91     |             | 2    | Bolt M10-6gx40.88.35.019 GOST 7796-70       |
|              | 93     |             | 2    | Bolt M12-6gx35.88.35.019 GOST 7796-70       |
|              | 95     |             | 4    | Nut M8-6H.6.019 GOST 5915-70                |
|              | 96     |             | 5    | Nut M10-6H.6.019 GOST 5915-70               |
|              | 98     |             | 3    | Stud M10 3p/6gx20.66.019 GOST 22034-76      |
|              | 99     |             | 2    | Stud M10 3p/6gx35.66.019 GOST 22034-76      |
|              | 101    |             | 6    | Forelock 3,2x18.019 GOST 397-79             |
|              | 103    |             | 1    | Ring 013-017-25-1-4 GOST 18829-73/9833-73   |
|              | 104    |             | 1    | Ring 017-022-30-1-4 GOST 18829-73/9833-73   |
|              | 105    | PM 24       | 1    | Washer                                      |
|              | 106    |             | 2    | Washer 021-025-25-1-4 GOST 18829-73/9833-73 |
|              | 108    |             | 1    | Ring 035-040-30-1-4 GOST 18829-73/9833-73   |
|              | 111    |             | 4    | Washer C 8.01.019 GOST 11371-78             |
|              | 114    |             | 30   | Washer 8T OST 37.001.115-75                 |
|              | 115    |             | 12   | Washer 10 OT OST 37.001.115-75              |
|              | 116    |             | 2    | Washer 12 OT OST 37.001.115-75              |
|              | 120    |             | 3    | Wire 1,0-O-C GOST 3282-74 (150 mm)          |

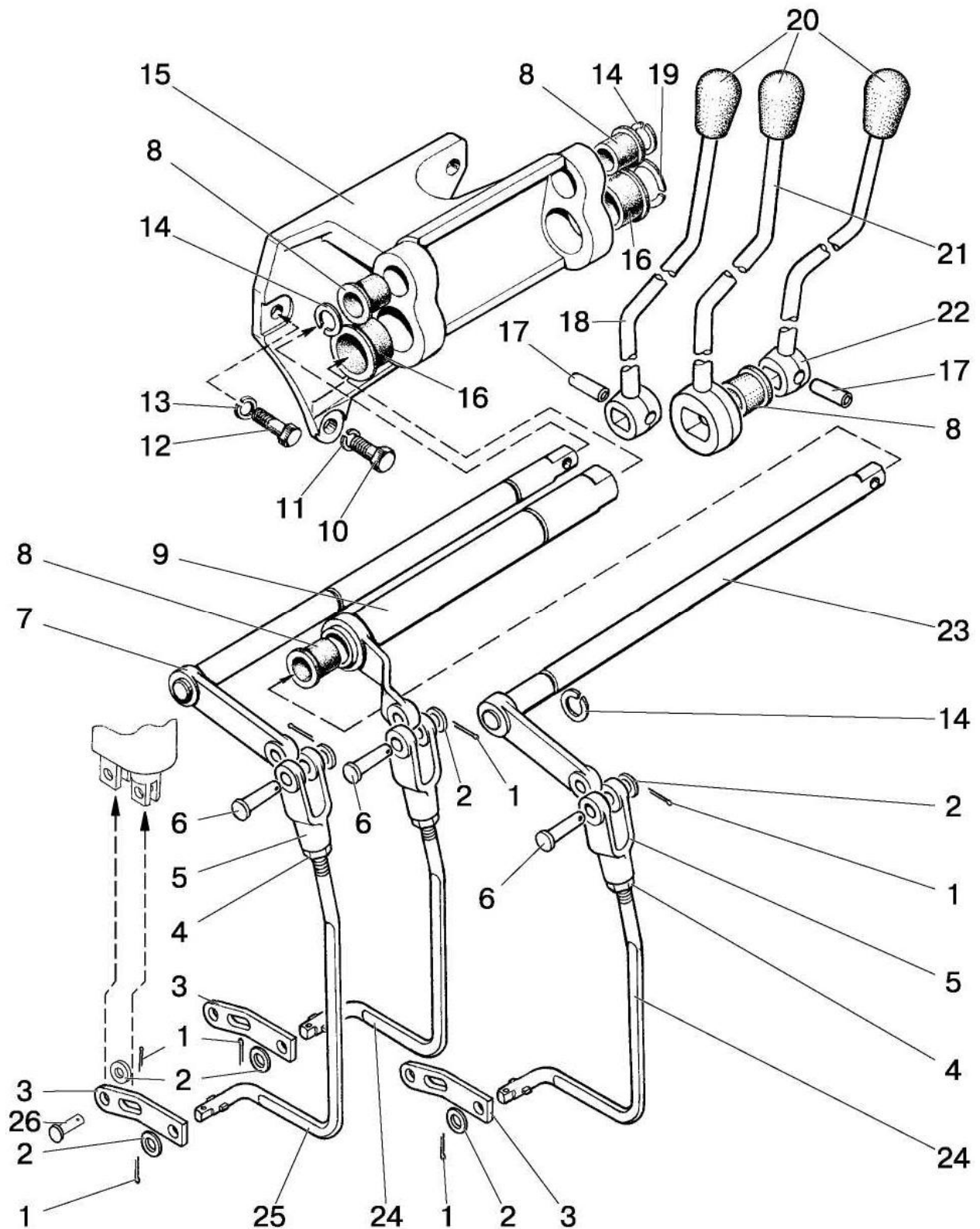


Fig. 46.8. Hydraulic distributor valve control (ПП70, RS 213 Mita)

**Group 46. Remote-cylinder hydraulic system  
Subgroup 4607. Hydraulic distributor valve control  
(РП70, RS 213 Mita)**

| Fig.No | Pos.No | Assembly unit or part number | Q-ty         |           | Name      |
|--------|--------|------------------------------|--------------|-----------|-----------|
| 46.8   |        |                              | <b>РП-70</b> | <b>RS</b> |           |
|        | 1      | 3,2x18                       | 6            | 12        | Forelock  |
|        | 2      | 70-4607144                   | 9            | 12        | Washer    |
|        | 3      | C80-4607086                  | -            | 3         | Lever     |
|        | 4      | M8                           | 3            | 3         | Nut       |
|        | 5      | A20-213A                     | 3            | 3         | Yoke      |
|        | 6      | A61-030-A1                   | 3            | 3         | Pin       |
|        | 7      | 80-4607250                   | 1            | 1         | Shaft     |
|        | 8      | 50-4607078-A                 | 4            | 4         | Bushing   |
|        | 9      | 80-4607230                   | 1            | 1         | Shaft     |
|        | 10     | M12x30                       | 2            | 2         | Bolt      |
|        | 11     | ШП 12                        | 2            | 2         | Washer    |
|        | 12     | M10x35                       | 1            | 1         | Bolt      |
|        | 13     | ШП 10                        | 1            | 1         | Washer    |
|        | 14     | 2Б18                         | 3            | 3         | Ring      |
|        | 15     | 85-4607017                   | 1            | 1         | Bracket   |
|        | 16     | 50-4607079-A1                | 2            | 2         | Bushing   |
|        | 17     | 8x30                         | 2            | 2         | Pin       |
|        | 18     | C80-4607080-01               | 1            | 1         | Lever     |
|        | 19     | 2Б32                         | 1            | 1         | Ring      |
|        | 20     | 70-3401093                   | 3            | 3         | Lever tip |
|        | 21     | C80-4607090                  | 1            | 1         | Lever     |
|        | 22     | C80-4607080                  | 1            | 1         | Lever     |
|        | 23     | 80-4607220                   | 1            | 1         | Shaft     |
|        | 24     | C80-4607261                  | -            | 2         | Rod       |
|        |        | P1221-4607261                | 2            | -         | Rod       |
|        | 25     | C80-4607261-01               | -            | 1         | Rod       |
|        |        | P1221-4607261-01             | 1            | -         | Rod       |
|        | 26     | C80-4607088                  | -            | 6         | Pin       |

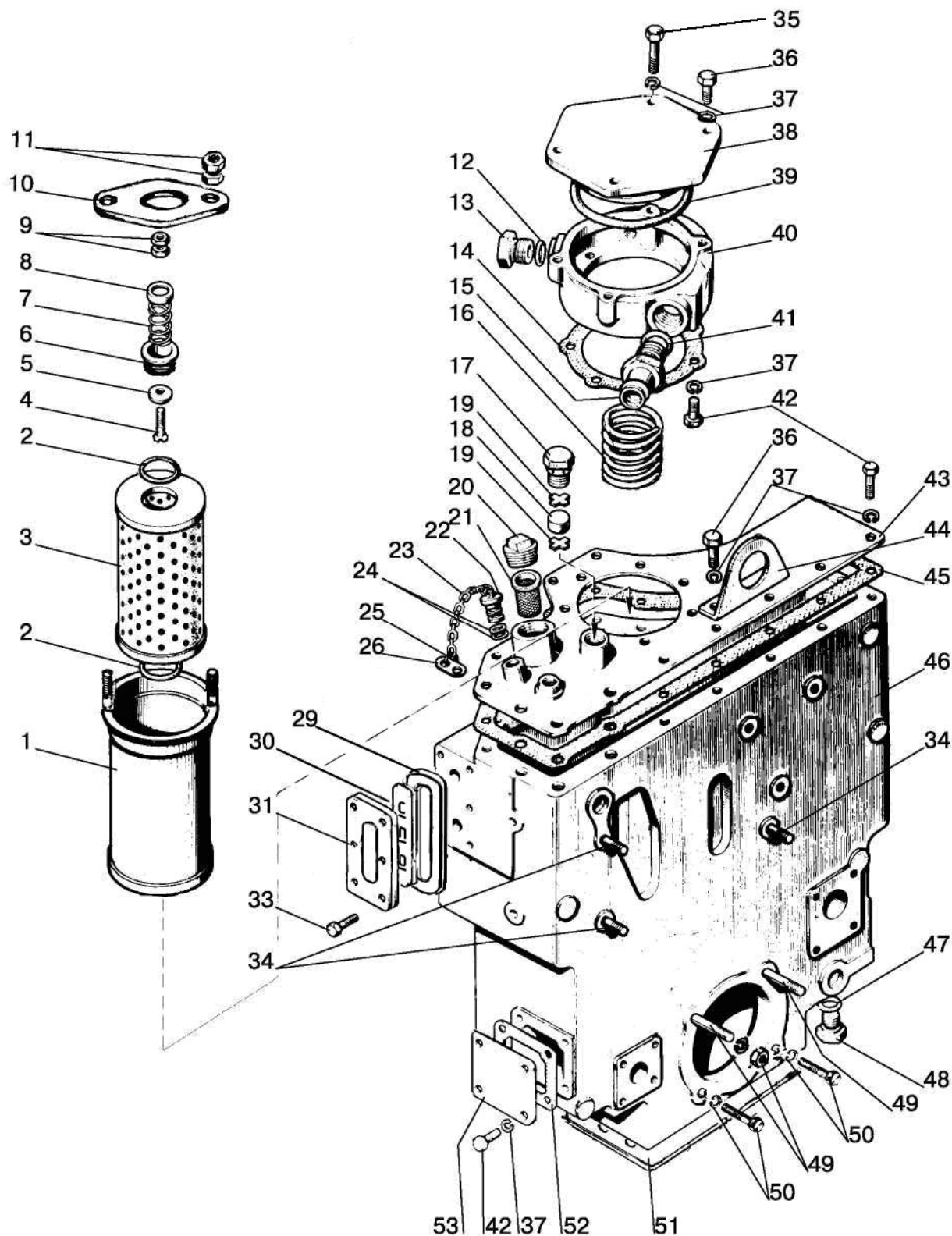


Fig. 46.9. Housing and filter of hydraulic system

**Group 46. Hydraulic system**  
**Subgroup 4607. Housing and filter of hydraulic system**

| Fig.No      | Pos.No | Designation             | Q-ty | Name                                           |
|-------------|--------|-------------------------|------|------------------------------------------------|
| <b>46.9</b> |        | 85-4608010              | 1    | Hydraulic system housing (1-49, 53, 54)        |
|             |        | 85-4608090              | 1    | Valve (22-26)                                  |
|             |        | A28.04.10.000           | 1    | Valve (4-9)                                    |
|             | 1      | A28.04.20.000-A1        | 1    | Housing                                        |
|             | 2      |                         | 2    | Ring 042-050-46-2-4 GOST 18829-73/GOST 9833-73 |
|             | 3      | ЭФОМ635-1 or<br>ФЭГ3-25 | 1    | Filtering element Regotmas 635-1               |
|             | 4      |                         | 1    | Screw B.M6-6gx40.58.019 GOST 17475-80          |
|             | 5      | 8.20.004                | 1    | Valve                                          |
|             | 6      | A28.04.10.001           | 1    | Valve housing                                  |
|             | 7      | 8.20.002                | 1    | Spring                                         |
|             | 8      | 8.20.005                | 1    | Washer                                         |
|             | 9      |                         | 2    | Nut M6-6H.6.019 GOST 5915-70                   |
|             | 10     | A28.04.00.001           | 1    | Retainer                                       |
|             | 11     |                         | 4    | Nut M6-6H.6.019 GOST 5915-70                   |
|             | 12     | PM 24 or 40-4607033-A   | 1    | Washer                                         |
|             | 13     | 85-4608021              | 1    | Plug                                           |
|             | 14     | 85-4608089              | 1    | Gasket                                         |
|             | 15     | 85-4607034              | 1    | Union body                                     |
|             | 16     | 85-4608057              | 1    | Spring                                         |
|             | 17     | 50-4608059              | 1    | Breather plug                                  |
|             | 18     | 50-4608063              | 1    | Filter                                         |
|             | 19     | 50-4608062              | 2    | Breather washer                                |
|             | 20     | КГ 11/4"                | 1    | Plug                                           |
|             | 21     | A61-C06-A3              | 1    | Filter                                         |
|             | 22     | 85-4608091              | 1    | Valve                                          |
|             | 23     | 50-1002450              | 1    | Chain                                          |
|             | 24     |                         | 2    | Ring 011-015-25-2-4 GOST 18829-73/GOST 9833-73 |
|             | 25     | 36-1101067              | 2    | Ring                                           |
|             | 26     | 50-3407069              | 1    | Chock                                          |
|             | 29     | 85-4608086-Б            | 1    | Seal                                           |
|             | 30     | 85-4608087-Б            | 1    | Indicator                                      |
|             | 31     | 85-4608088-Б            | 1    | Housing                                        |
|             | 33     |                         | 6    | Bolt M6x20 DIN EN 1665-98                      |
|             | 34     |                         | 3    | Stud M10 3p/6gx20.66.019 GOST 22034-76         |
|             | 35     |                         | 1    | Bolt M8-6gx80.88.35.019 GOST 7795-70           |
|             | 36     |                         | 5    | Bolt M8-6gx25.88.35.019 GOST 7796-70           |
|             | 37     |                         | 30   | Washer 8T OST 37.001.115-75                    |
|             | 38     | 85-4608022              | 1    | Cover                                          |
|             | 39     |                         | 1    | Ring 130-135-30-1-4 GOST 18829-73/GOST 9833-73 |
|             | 40     | 85-4608018              | 1    | Sleeve                                         |
|             | 41     |                         | 1    | Ring 027-032-30-1-4 GOST 18829-73/GOST 9833-73 |
|             | 42     |                         | 23   | Bolt M8-6gx20.88.35.019 GOST 7796-70           |
|             | 43     | 85-4608025              | 1    | Cover                                          |
|             | 44     | 80-4608073              | 1    | Bracket                                        |
|             | 45     | 85-4608031-Б            | 1    | Gasket                                         |
|             | 46     | 85-4608016-A            | 1    | Hydraulic system housing                       |



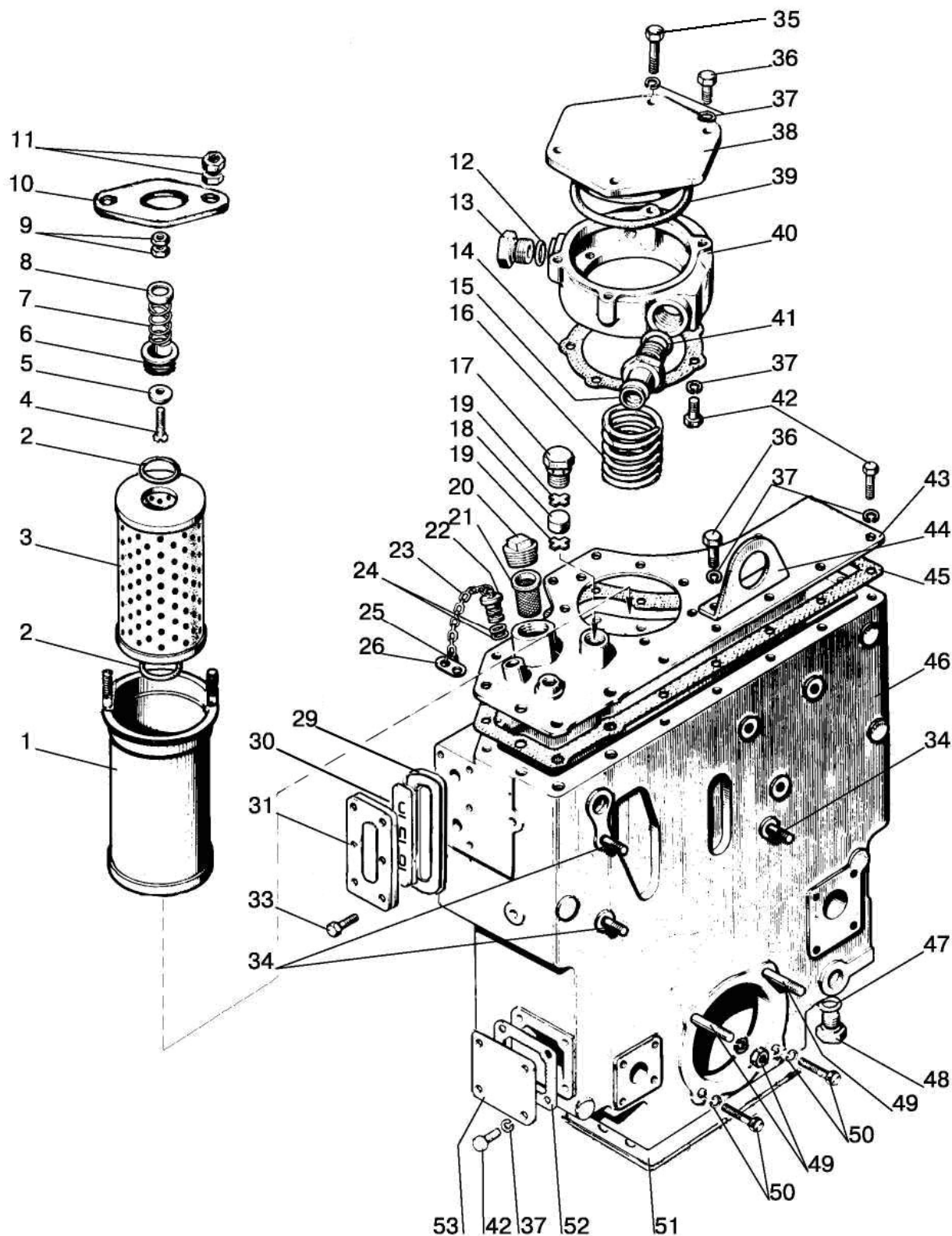


Fig. 46.9. Housing and filter of hydraulic system

**Group 46. Hydraulic system**  
**Subgroup 4607. Housing and filter of hydraulic system**

| Fig.No | Pos.No | Designation               | Q-ty | Name                                   |
|--------|--------|---------------------------|------|----------------------------------------|
| 46.9   | 47     | PM 1/2 or<br>40-4607038-A | 1    | Washer                                 |
|        | 48     | 70-4607163                | 1    | Plug                                   |
|        | 49     |                           | 2    | Stud M10 3p/6gx35.66.019 GOST 22034-76 |
|        |        |                           | 2    | Nut M10-6H.6.019 GOST 5915-70          |
|        | 50     |                           | 2    | Bolt M10-6gx40.88.35.019 GOST 7796-70  |
|        |        |                           | 4    | Washer 10 OT OST 37.001.115-75         |
|        | 51     | 50-4608049-01             | 1    | Gasket                                 |
|        | 52     | 70-4608033                | 1    | Gasket                                 |
|        | 53     | 70-4608019                | 1    | Cover                                  |

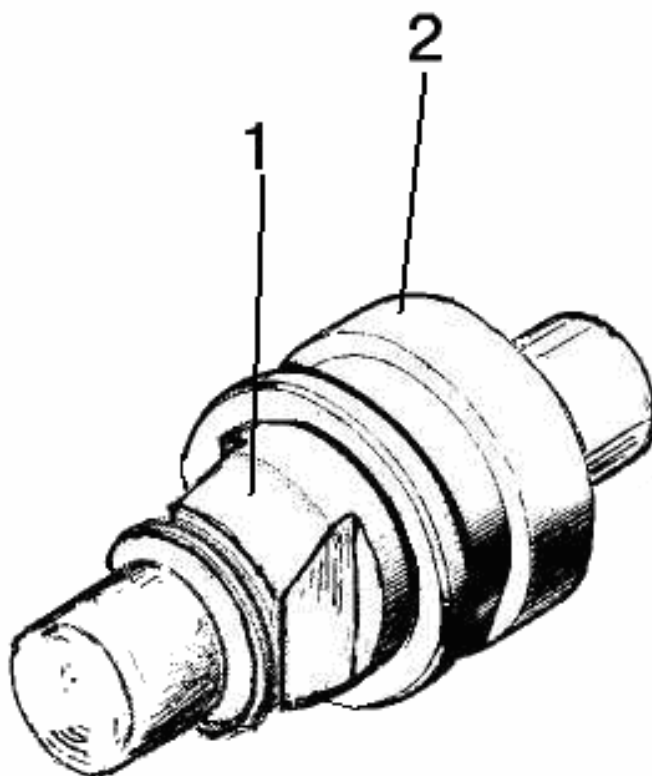


Fig. 46.10. Fast coupling

**Group 46. Hydraulic system**  
**Subgroup M036.50Б. Fast coupling**

| Fig.No | Pos.No | Designation                         | Q-ty | Name                            |
|--------|--------|-------------------------------------|------|---------------------------------|
| 46.10  | 1      | M036.50Б.20 or<br>HP10-4MX0041A0 or | 1    | Right housing<br>Attaching plug |
|        | 2      | M036.50Б.10 or<br>HP10-3MX0041A0 or | 1    | Left housing<br>Coupling        |

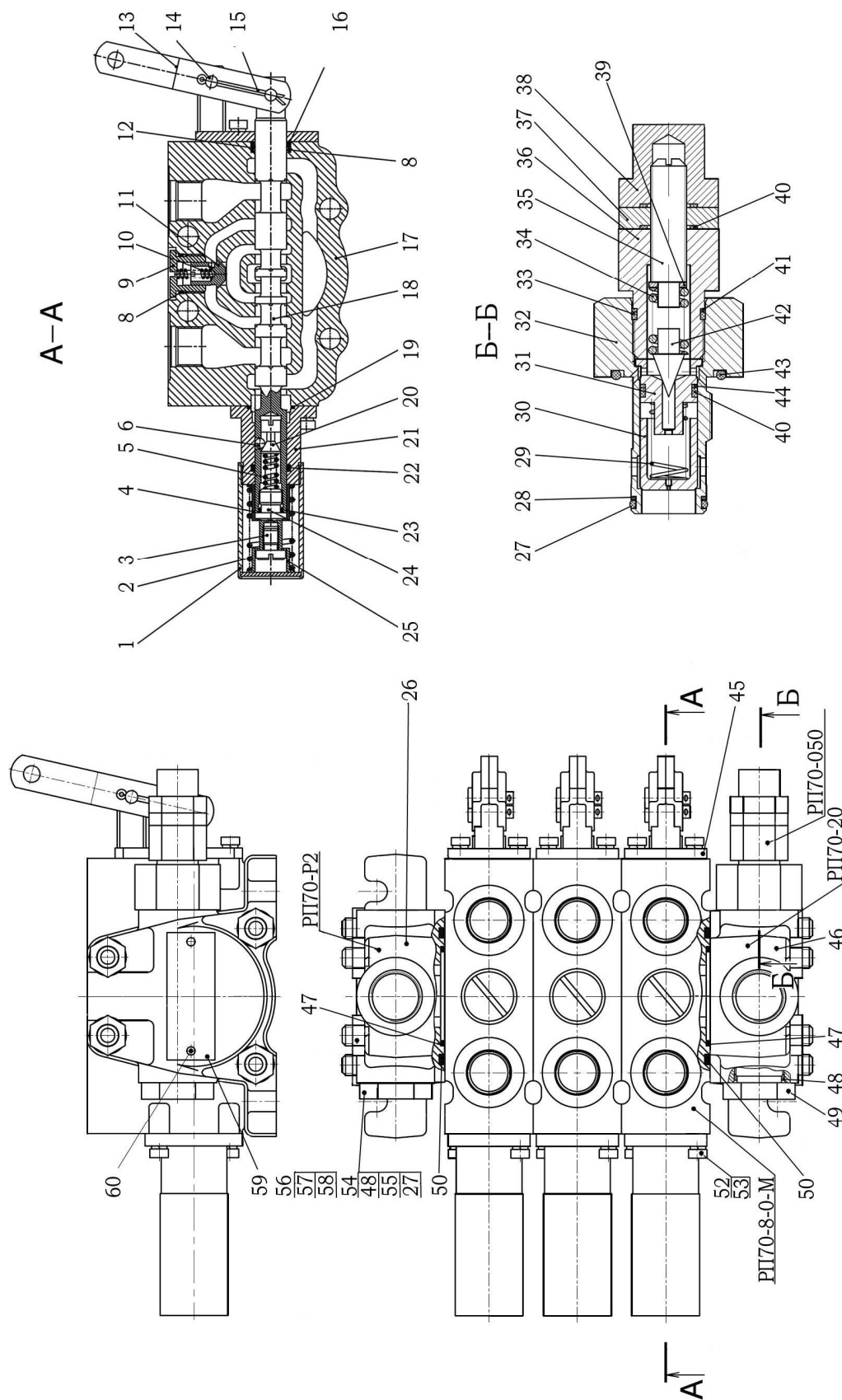


Fig. 46.11. Hydraulic distributor valve ПП70

**Group 46. Hydraulic system**  
**Subgroup PП70. Hydraulic distributor valve PП70**

| Fig.No       | Pos.No | Designation           | Q-ty | Name                                              |
|--------------|--------|-----------------------|------|---------------------------------------------------|
| <b>46.11</b> |        | PП70-888-000-MMM-20P2 | 1    | Hydraulic distributor valve                       |
|              |        | PП70-8-0-M            | 3    | Distributor section (1-25, 45, 52, 53)            |
|              |        | PП70-P2               | 1    | Cover (PП70-080, 26, 47, 50)                      |
|              |        | PП70-20               | 1    | Cover (PП70-050, 46, 48, 49)                      |
|              |        | PП70-050              | 1    | Safety cock (27-44)                               |
|              |        | PП70-080              | 1    | Blind plug (27, 48, 54, 55)                       |
|              | 1      | PП70-090              | 1    | Pipe                                              |
|              | 2      | P16.3.10.10           | 1    | Spring                                            |
|              | 3      | PП70-026              | 1    | Screw                                             |
|              | 4      | PП70-018-01           | 1    | Disk                                              |
|              | 5      | PП70-033              | 1    | Spring                                            |
|              | 6      |                       | 3    | Ball 5,556-100 GOST 3722-81                       |
|              | 8      |                       | 1    | Ring 017-020-19-2-2<br>GOST 18829-73/GOST 9833-73 |
|              | 9      | PП70-024              | 1    | Plug                                              |
|              | 10     | PП70-027              | 1    | Spring                                            |
|              | 11     | PП70-023              | 1    | Regulating valve                                  |
|              | 12     | PП70-031              | 1    | Ring                                              |
|              | 13     | PП70-042              | 2    | Plate                                             |
|              | 14     |                       | 2    | Pin 6x18 OST 37.001.163-75                        |
|              | 15     |                       | 3    | Forelock 2x40.019 GOST 397-79                     |
|              | 16     | PП70-032              | 1    | Ring                                              |
|              | 17     | PП70-011              | 1    | Housing                                           |
|              | 18     | PП70-013              | 1    | Spool                                             |
|              | 19     |                       | 1    | Ring 030-034-25-2-2<br>GOST 18829-73/GOST 9833-73 |
|              | 20     |                       | 1    | Ball 9,525-100 GOST 3722-81                       |
|              | 21     | PП70-014              | 1    | Cage                                              |
|              | 22     |                       | 1    | Ring 016-020-25-2-2<br>GOST 18829-73/GOST9833-73  |
|              | 23     |                       | 1    | Ring 009-012-19-1-4<br>GOST 18829-73/GOST 9833-73 |
|              | 24     | PП70-016              | 1    | Threaded bushing                                  |
|              | 25     | PП70-018              | 1    | Disk                                              |
|              | 26     | PП70-012              | 1    | Cover                                             |
|              | 27     |                       | 2    | Ring 018-021-19-2-4<br>GOST18829-73/GOST9833-73   |
|              | 28     | PП70-058              | 1    | Ring                                              |
|              | 29     | 70-4609037            | 1    | Spring                                            |
|              | 30     | PП70-052-Б            | 1    | Valve                                             |
|              | 31     | PП70-054              | 1    | Grinder                                           |
|              | 32     | PП70-051              | 1    | Housing                                           |
|              | 33     |                       | 1    | Ring 016-020-25-2-4<br>GOST 18829-73/GOST 9833-73 |
|              | 34     | МКПВ-16/3Φ-103        | 1    | Spring                                            |
|              | 35     | PП70-059              | 1    | Screw                                             |
|              | 36     | PП70-053              | 1    | Union body                                        |
|              | 37     | PП70-076              | 1    | Nut                                               |
|              | 38     | PП70-057              | 1    | Cap                                               |
|              | 39     |                       | 1    | Washer C 6.01.019 GOST 11371-78                   |
|              | 40     |                       | 3    | Ring 013-016-19-2-2<br>GOST18829-73/GOST9833-73   |
|              | 41     | PП70-058-02           | 1    | Ring                                              |
|              | 42     | МКПВ-16/3Φ-101        | 1    | Needle                                            |

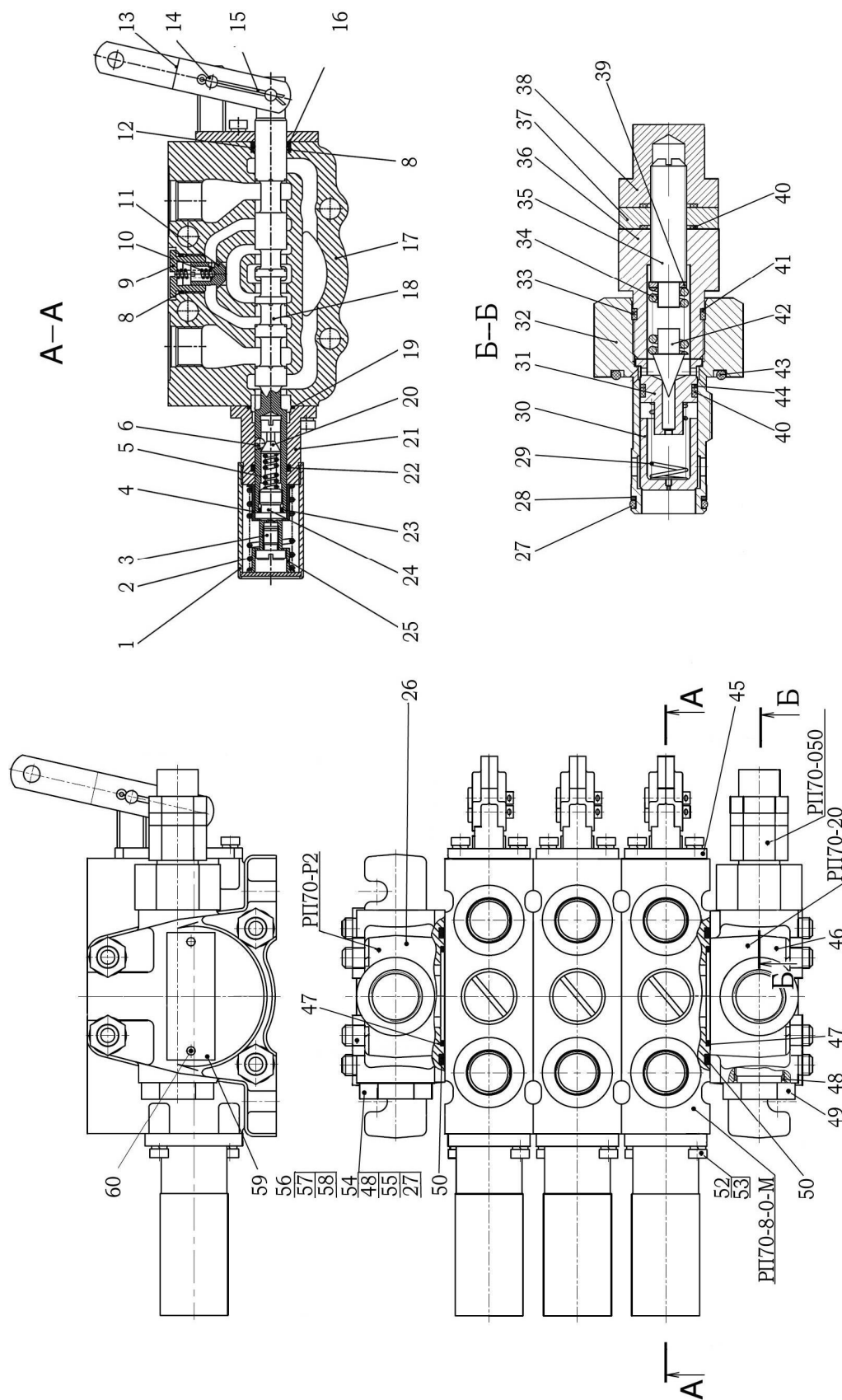


Fig. 46.11. Hydraulic distributor valve PП70

**Group 46. Hydraulic system**  
**Subgroup PП70. Hydraulic distributor valve PП70**

| Fig.No       | Pos.No | Designation | Q-ty | Name                                                                                     |
|--------------|--------|-------------|------|------------------------------------------------------------------------------------------|
| <b>46.11</b> | 43     |             | 1    | Ring 028-032-25-2-2<br>GOST18829-73/GOST9833-73                                          |
|              | 44     | PП70-058-01 | 1    | Ring                                                                                     |
|              | 45     | PП70-070    | 1    | Bracket                                                                                  |
|              | 46     | PП70-012-01 | 1    | Cover                                                                                    |
|              | 47     |             | 2    | Ring 036-040-25-2-2<br>GOST 18829-73/GOST 9833-73                                        |
|              | 48     |             | 2    | Ring 021-024-19-2-4<br>GOST18829-73/GOST9833-73                                          |
|              | 49     | PП70-036    | 1    | Plug                                                                                     |
|              | 50     |             | 2    | Ring 060-066-36-2-2<br>GOST 18829-73/GOST9833-73 or<br>Ring 60,00-3,50 SIMRIT 72 NBR 872 |
|              | 52     |             | 4    | Screw B.M5-6gx12.58.019 GOST 17473-80                                                    |
|              | 53     |             | 4    | Washer 5T OST 37.001.115-75                                                              |
|              | 54     | PП70-081    | 1    | Blind plug                                                                               |
|              | 55     | PП70-058    | 1    | Ring                                                                                     |
|              | 56     | PП70-037-02 | 4    | Stud                                                                                     |
|              | 57     |             | 8    | Nut M10-6H.6.019 GOST 5915-70                                                            |
|              | 58     |             | 8    | Washer 10 OT OST 37.001.115-75                                                           |
|              | 59     | PП70-038    | 1    | Branded instruction plate                                                                |
|              | 60     |             | 2    | Non-threaded fastener 2x6.01.10кп.05 GOST 10299-80                                       |



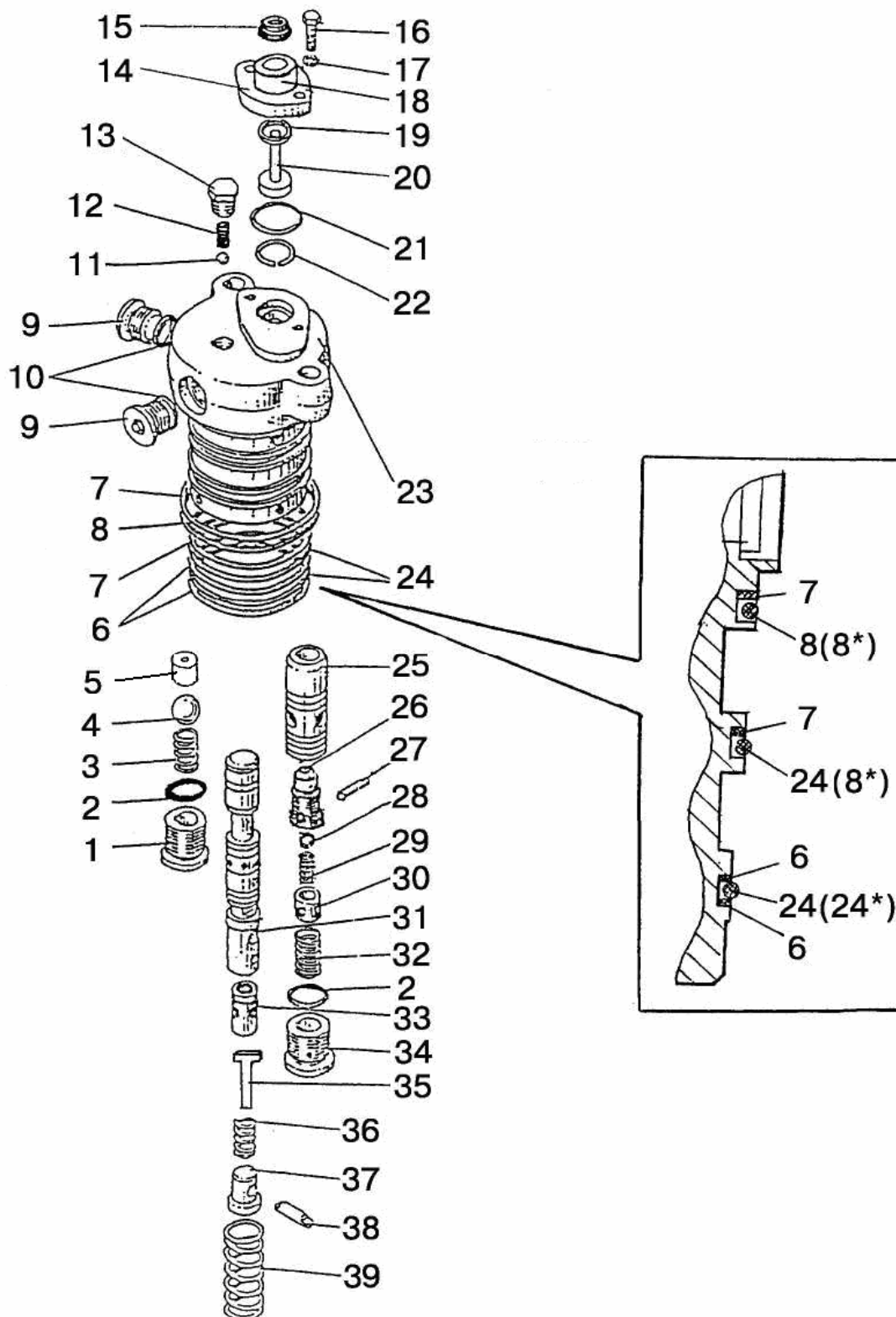


Fig. 46.12. Hydraulic hoist distributor

**Group 46. Hydraulic system**  
**Subgroup 4634. Hydraulic hoist distributor**

| Fig.No       | Pos.No | Designation      | Q-ty | Name                                                                              |
|--------------|--------|------------------|------|-----------------------------------------------------------------------------------|
| <b>46.12</b> |        | 820-4634010      | 1    | Distributor                                                                       |
|              |        | 820-4634020A     | 1    | Valve (25-30)                                                                     |
|              | 1      | 820-4634021      | 1    | Plug                                                                              |
|              | 2      |                  | 2    | Ring 017-020-19-2-6 GOST 18829-73/9833-73 or<br>Ring 17,00-2,00 SIMRIT 72 NBR 872 |
|              | 3      | A61-072          | 1    | Spring                                                                            |
|              | 4      |                  | 1    | Ball 14,288-60 GOST 3722-81                                                       |
|              | 5      | 820-4634017      | 1    | Grinder                                                                           |
|              | 6      | 820-4634025A     | 2    | Ring                                                                              |
|              | 7      | 820-4634025-A-01 | 2    | Ring                                                                              |
|              | 8      |                  | 2    | Ring 068-072-25-2-6 GOST 18829-73/9833-73 or<br>Ring 65,00-2,50 SIMRIT 72 NBR 872 |
|              | 9      | 820-4634022      | 2    | Plug                                                                              |
|              | 10     |                  | 2    | Ring 013-016-19-2-6 GOST 18829-73/9833-73 or<br>Ring 13,00-2,00 SIMRIT 72 NBR 872 |
|              | 11     |                  | 1    | Ball 6,350-100 GOST 3722-81                                                       |
|              | 12     | 80-4614058       | 1    | Spring                                                                            |
|              | 13     |                  | 1    | Plug КГ 1/8" A12.019 TU 23.1.506-91                                               |
|              | 14     | 820-4634013-B    | 1    | Cover                                                                             |
|              | 15     |                  | 1    | Wiper seal 2-10 GOST 24811-81                                                     |
|              | 16     |                  | 2    | Bolt M6-6gx16.88.35.019 GOST 7798-70                                              |
|              | 17     |                  | 2    | Washer 6T OST 37.001.115-75                                                       |
|              | 18     | 820-4634039      | 1    | Bushing                                                                           |
|              | 19     |                  | 1    | Ring 010-014-25-2-2 GOST 18829-73/9833-73                                         |
|              | 20     | 820-4634038      | 1    | Lifter                                                                            |
|              | 21     |                  | 1    | Ring 021-024-19-2-6 GOST 18829-73/9833-73 or<br>Ring 21,00-2,00 SIMRIT 72 NBR 872 |
|              | 22     | 820-4634036      | 1    | Lock ring                                                                         |
|              | 23     | 820-46340111     | 1    | Housing                                                                           |
|              | 24     |                  | 2    | Ring 064-068-25-2-6 GOST 18829-73/9833-73 or<br>Ring 63,00-2,50 SIMRIT 72 NBR 872 |
|              |        |                  | 1    | Ring                                                                              |
|              | 25     | 820-4634014      | 1    | Valve                                                                             |
|              | 26     | 820-4634018-B    | 1    | Grinder                                                                           |
|              | 27     |                  | 1    | Pin 2.3x14 GOST 3128-70                                                           |
|              | 28     |                  | 1    | Ball 5,556-60 GOST 3722-81                                                        |
|              | 29     | P75-B3BP-082     | 1    | Spring                                                                            |
|              | 30     | 820-4634033      | 1    | Thrust                                                                            |
|              | 31     | 820-4634012      | 1    | Spool                                                                             |
|              | 32     | 820-4634024      | 1    | Spring                                                                            |
|              | 33     | 820-4634026-B    | 1    | Valve                                                                             |
|              | 34     | 820-4634019      | 1    | Plug                                                                              |
|              | 35     | 820-4634037      | 1    | Thrust                                                                            |
|              | 36     | 820-4634028      | 1    | Spring                                                                            |
|              | 37     | 820-4634029      | 1    | Thrust                                                                            |
|              | 38     | 820-4634027      | 1    | Pin                                                                               |
|              | 39     | 820-4634016      | 1    | Spring                                                                            |

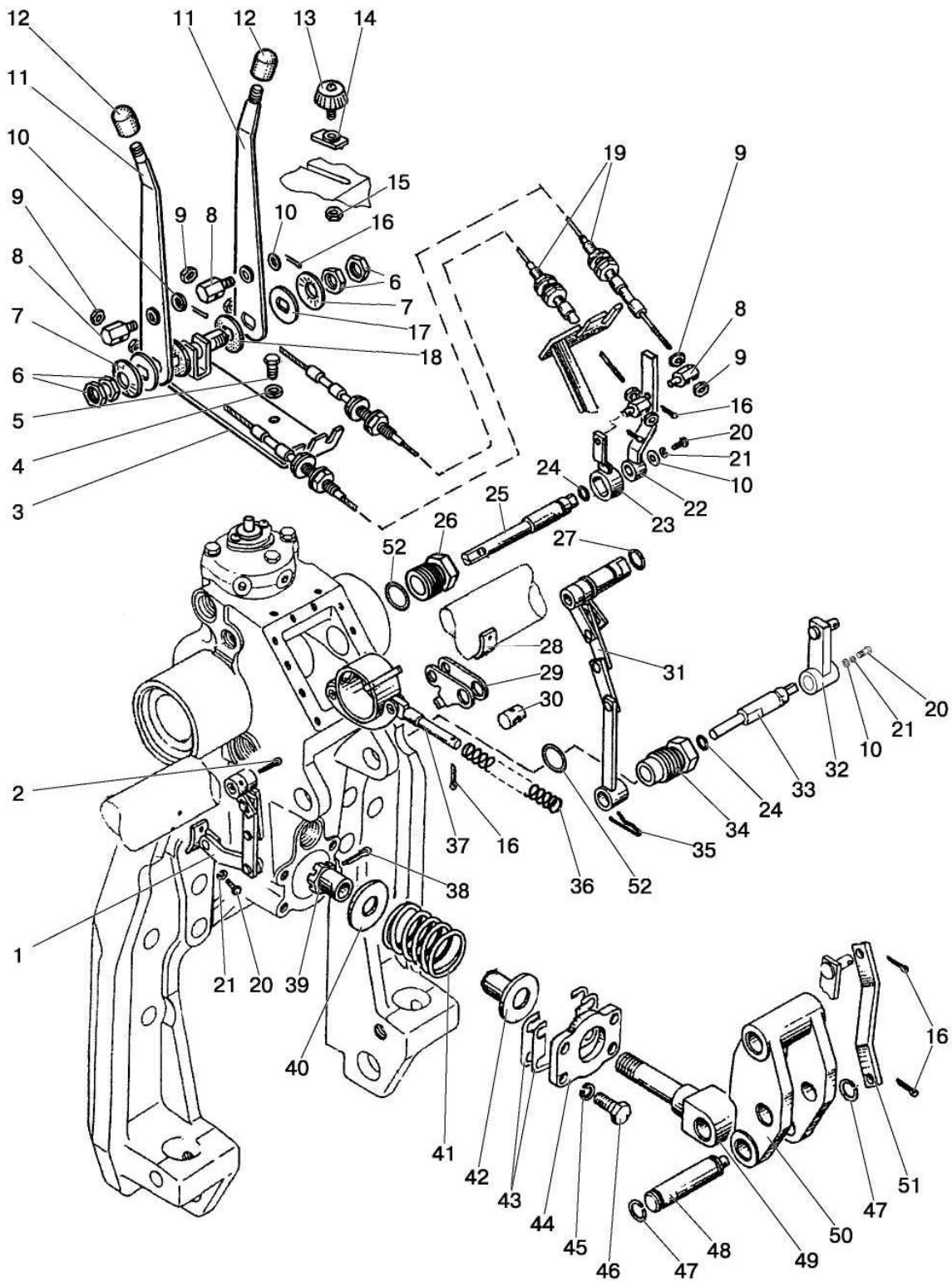


Fig. 46.13. Hydraulic hoist control

**Group 46. Hydraulic system**  
**Subgroup 4635. Hydraulic hoist control**

| Fig.No       | Pos.No | Designation                           | Q-ty | Name                                      |
|--------------|--------|---------------------------------------|------|-------------------------------------------|
| <b>46.13</b> |        | 820-4635020A                          | 1    | Force sensor (38-42, 44, 49)              |
|              |        | 820-4635060                           | 1    | Adder stage (16, 29, 30, 36, 37)          |
|              |        | 820-4635090-B                         | 1    | Bracket (3, 6, 7, 11, 17)                 |
|              | 1      | 820-4635025                           | 1    | Link                                      |
|              | 2      |                                       | 1    | Forelock 3,2x25.019 GOST 397-79           |
|              | 3      | 820-4635095-B                         | 1    | Bracket                                   |
|              | 4      |                                       | 4    | Washer 8T OST 37.001.115-75               |
|              | 5      |                                       | 4    | Bolt M8-6gx20.88.35.019 GOST 7796-70      |
|              | 6      |                                       | 4    | Nut M14x1,5-6H.6.019 GOST 5915-70         |
|              | 7      | 80B-1108347                           | 2    | Disk spring                               |
|              | 8      | 80B-1108317                           | 4    | Threaded rivet nut                        |
|              | 9      |                                       | 8    | Nut M6-6H.6.019 GOST 5915-70              |
|              | 10     |                                       | 4    | Washer C 6.01.019 GOST 6958-78            |
|              | 11     | 820-4635100-B                         | 2    | Lever                                     |
|              | 12     | A13.11.000                            | 2    | Handle                                    |
|              | 13     | 80-4616070                            | 1    | Screw                                     |
|              | 14     | 820-4635082                           | 1    | Thrust                                    |
|              | 15     |                                       | 1    | Nut M6-6H.019 TU 23.1.505-91              |
|              | 16     |                                       | 7    | Forelock 3,2x18.019 GOST 397-79           |
|              | 17     | 80-1108028                            | 2    | Washer                                    |
|              | 18     | 80-1108178                            | 2    | Friction washer                           |
|              | 19     | Morse 900 or<br>23.588.1.1.2.00.01-01 | 2    | Rope                                      |
|              | 20     |                                       | 6    | Bolt M6-6gx16.88.35.019 GOST 7798-70      |
|              | 21     |                                       | 6    | Washer 6T OST 37.001.115-75               |
|              | 22     | 820-4635080                           | 1    | Lever                                     |
|              | 23     | 820-4635075                           | 1    | Lever                                     |
|              | 24     |                                       | 2    | Ring 011-015-25-2-4 GOST 18829-73/9833-73 |
|              | 25     | 820-4635034                           | 1    | Shaft                                     |
|              | 26     | 820-4635033-B                         | 1    | Bushing                                   |
|              | 27     |                                       | 1    | Ring 019-023-25-2-4 GOST 18829-73/9833-73 |
|              | 28     | 820-4635046                           | 1    | Jokey                                     |
|              | 29     | 820-4635070                           | 1    | Lever                                     |
|              | 30     | 820-4635069                           | 1    | Detent                                    |
|              | 31     | 820-4635030                           | 1    | Link                                      |
|              | 32     | 820-4635015-B                         | 1    | Lever                                     |
|              | 33     | 820-4635016-B                         | 1    | Shaft                                     |
|              | 34     | 820-4635032-B                         | 1    | Bushing                                   |
|              | 35     | 820-4635049                           | 1    | Forelock                                  |
|              | 36     | 820-4635063                           | 1    | Spring                                    |
|              | 37     | 820-4635065                           | 1    | Bracket                                   |
|              | 38     |                                       | 1    | Forelock 4x22.019 GOST 397-79             |
|              | 39     | 820-4635024                           | 1    | Nut                                       |
|              | 40     | 820-4635023                           | 1    | Washer                                    |
|              | 41     | 820-4635022                           | 1    | Spring                                    |
|              | 42     | 820-4635026-B                         | 1    | Bushing                                   |
|              | 43     | 820-4635044-B                         | 4    | Gasket                                    |
|              | 44     | 820-4635043-B                         | 1    | Cover                                     |
|              | 45     |                                       | 4    | Washer 12 OT OST 37.001.115-75            |
|              | 46     |                                       | 4    | Bolt M12-6gx30.88.35.019 GOST 7796-70     |
|              | 47     |                                       | 2    | Ring C22 GOST 13940-86                    |

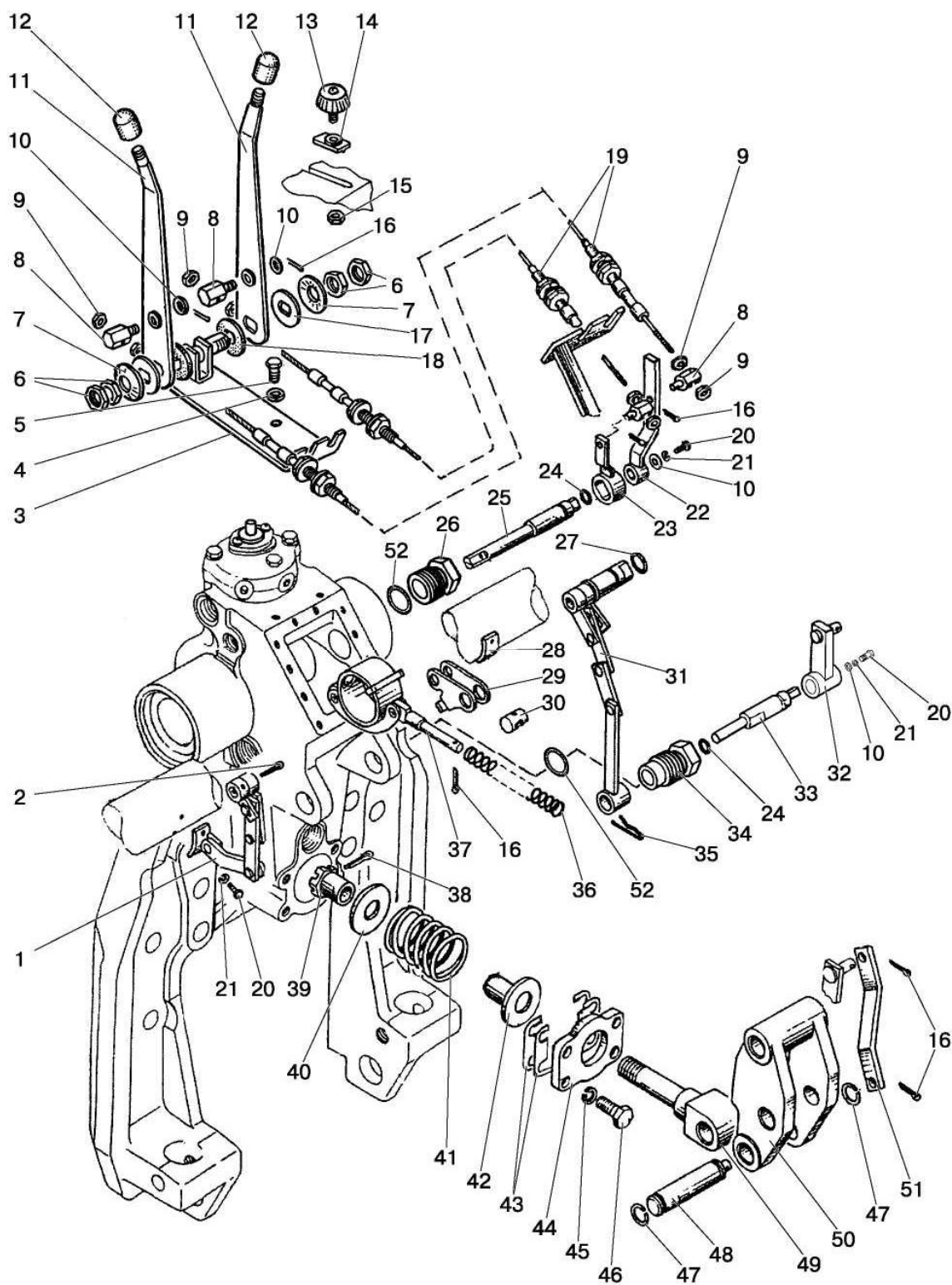


Fig. 46.13. Hydraulic hoist control

**Group 46. Hydraulic system**  
**Subgroup 4635. Hydraulic hoist control**

| Fig.No       | Pos.No | Designation | Q-ty | Name                                      |
|--------------|--------|-------------|------|-------------------------------------------|
| <b>46.13</b> | 48     | 820-4635018 | 1    | Pin                                       |
|              | 49     | 820-4635021 | 1    | Push rod                                  |
|              | 50     | 820-4635019 | 1    | Clip                                      |
|              | 51     | 820-4635048 | 1    | Rod                                       |
|              | 52     |             | 2    | Ring 027-032-30-1-4 GOST 18829-73/9833-73 |

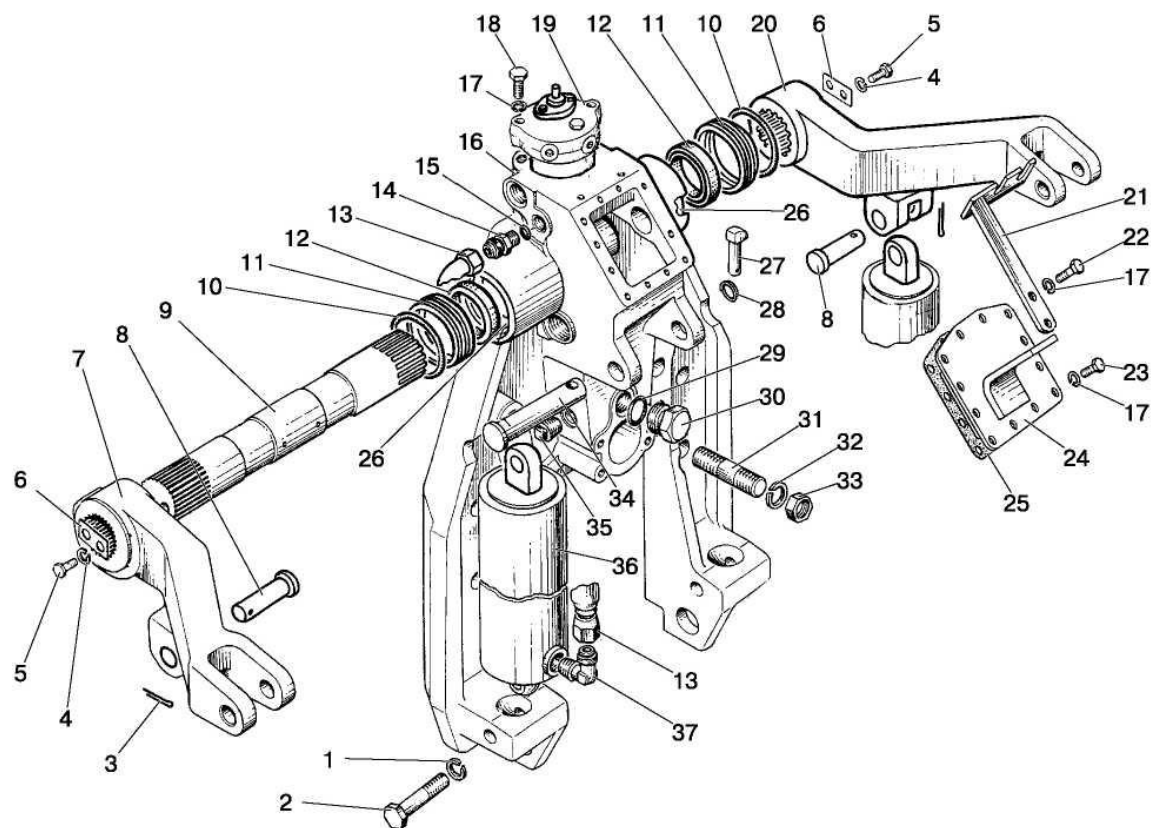


Fig. 46.14. Hydraulic hoist

**Subgroup 4635. Hydraulic hoist**

| Fig.No       | Pos.No | Designation                        | Q-ty | Name                                      |
|--------------|--------|------------------------------------|------|-------------------------------------------|
| <b>46.14</b> |        | 1221-4635010-03                    | 1    | Hydraulic hoist                           |
|              | 1      |                                    | 2    | Washer 16 OT OST 37.001.115-75            |
|              | 2      |                                    | 2    | Bolt M16-6gx75.88.35.019 GOST 7795-70     |
|              | 3      |                                    | 2    | Forelock 5x36.019 GOST 397-79             |
|              | 4      |                                    | 4    | Washer 12 OT OST 37.001.115-75            |
|              | 5      |                                    | 4    | Bolt M12-6gx30.88.35.019 GOST 7796-70     |
|              | 6      | 40-4605023-A2                      | 2    | Washer                                    |
|              | 7      | 1221-4635013                       | 1    | Left lever                                |
|              | 8      | 1221-4635016                       | 2    | Pin                                       |
|              | 9      | 1221-4635014                       | 1    | Shaft                                     |
|              | 10     |                                    | 2    | Ring 079-085-36-2-2 GOST 18829-73/9833-73 |
|              | 11     | 820-4635091                        | 2    | Sleeve                                    |
|              | 12     | BABSL 60-72-7 SIMRIT<br>72 NBR 902 | 2    | Collar                                    |
|              | 13     | 820-4635115-01                     | 2    | Hose                                      |
|              | 14     | 820-4635083                        | 2    | Union body                                |
|              | 15     |                                    | 2    | Ring 012-015-19-2-4 GOST 18829-73/9833-73 |
|              | 16     | 1221-4635011                       | 1    | Housing                                   |
|              | 17     |                                    | 14   | Washer 8T OST 37.001.115-75               |
|              | 18     |                                    | 2    | Bolt M8-6gx40.88.35.019 GOST 7795-70      |
|              | 19     | 820-4634010                        | 1    | Distributor                               |
|              | 20     | 1221-4635012                       | 1    | Right lever                               |
|              | 21     | 820-4635085                        | 1    | Bracket                                   |
|              | 22     |                                    | 2    | Bolt M8-6gx30.88.35.019 GOST 7796-70      |
|              | 23     |                                    | 10   | Bolt M8-6gx20.88.35.019 GOST 7796-70      |
|              | 24     | 820-4635125                        | 1    | Cover                                     |
|              | 25     | 820-4635039                        | 1    | Gasket                                    |
|              | 26     | 820-4635088                        | 4    | Bushing                                   |
|              | 27     | A61.05.005                         | 1    | Chock                                     |
|              | 28     | A61.05.004                         | 1    | Ring                                      |
|              | 29     |                                    | 1    | Ring 027-032-30-1-4 GOST 18829-73/9833-73 |
|              | 30     | 80-4608021                         | 1    | Blind plug                                |
|              | 31     | M80-4616011                        | 4    | Stud                                      |
|              | 32     |                                    | 4    | Washer 20 OT OST 37.001.115-75            |
|              | 33     |                                    | 4    | Nut M20-6H.6.019 GOST 5915-70             |
|              | 34     | A61.10.001                         | 1    | Pin                                       |
|              | 35     | ПК КГ 3/8"                         | 1    | Plug                                      |
|              | 36     | 1221Б-4625010 or<br>1221-4625010   | 2    | Cylinder                                  |
|              | 37     | 820-4635084                        | 2    | Elbow                                     |



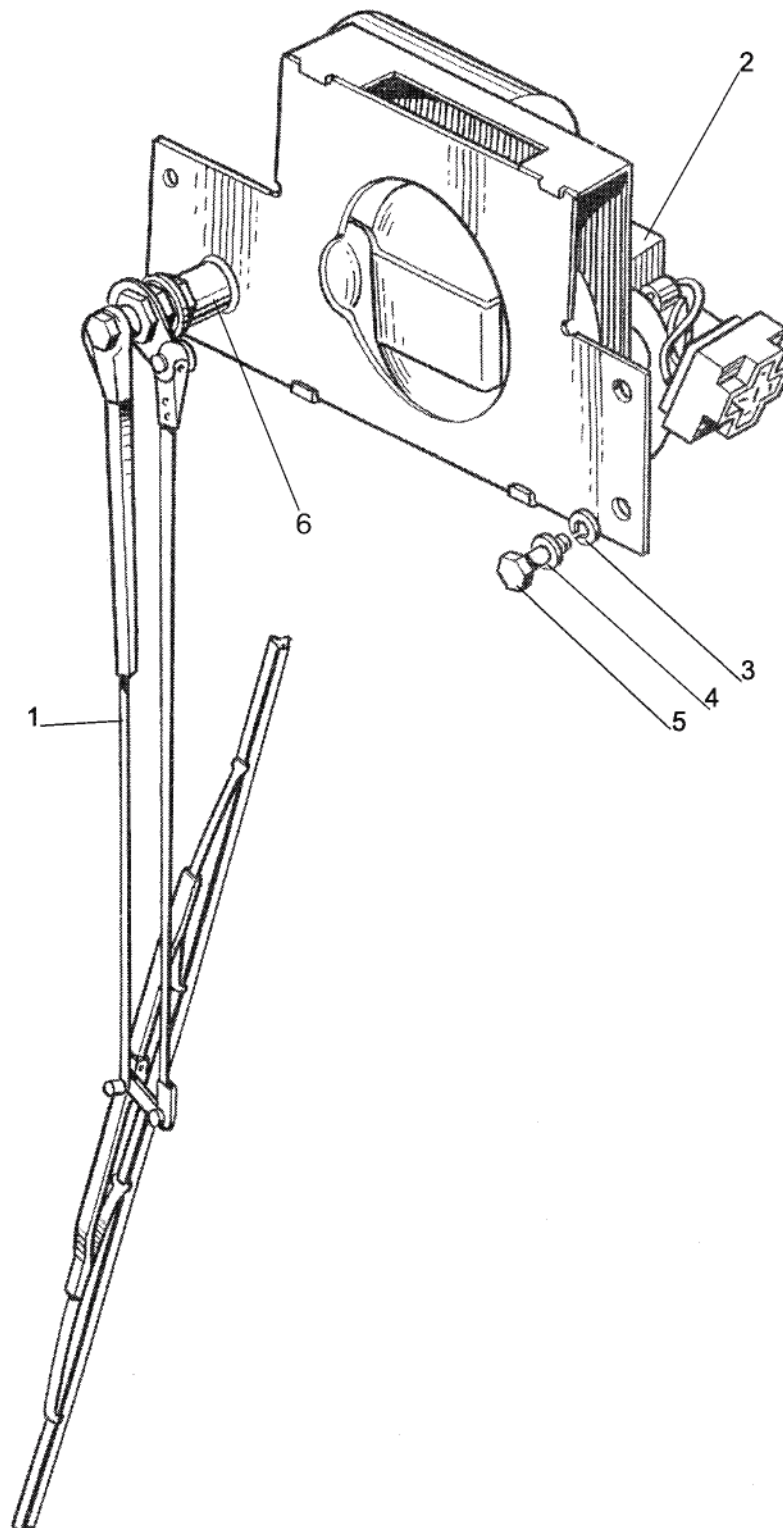


Fig. 52.1. Front screen wiper

**Group 52. Screen wipers**  
**Subgroup 192.000. Front screen wiper**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                    |
|-------------|--------|------------------------------|------|-------------------------|
| <b>52.1</b> |        | 192.000.010                  | 1    | Windscreen wiper (1, 2) |
|             | 1      | 787.000.030                  | 1    | Lever with brush        |
|             | 2      | 192.090.010                  | 1    | Power gear group        |
|             | 3      | ШП 6                         | 4    | Washer                  |
|             | 4      | ШЧ 6                         | 2    | Washer                  |
|             | 5      | M6x16                        | 4    | Bolt                    |
|             | 6      | 70-1602037                   | 1    | Bushing                 |

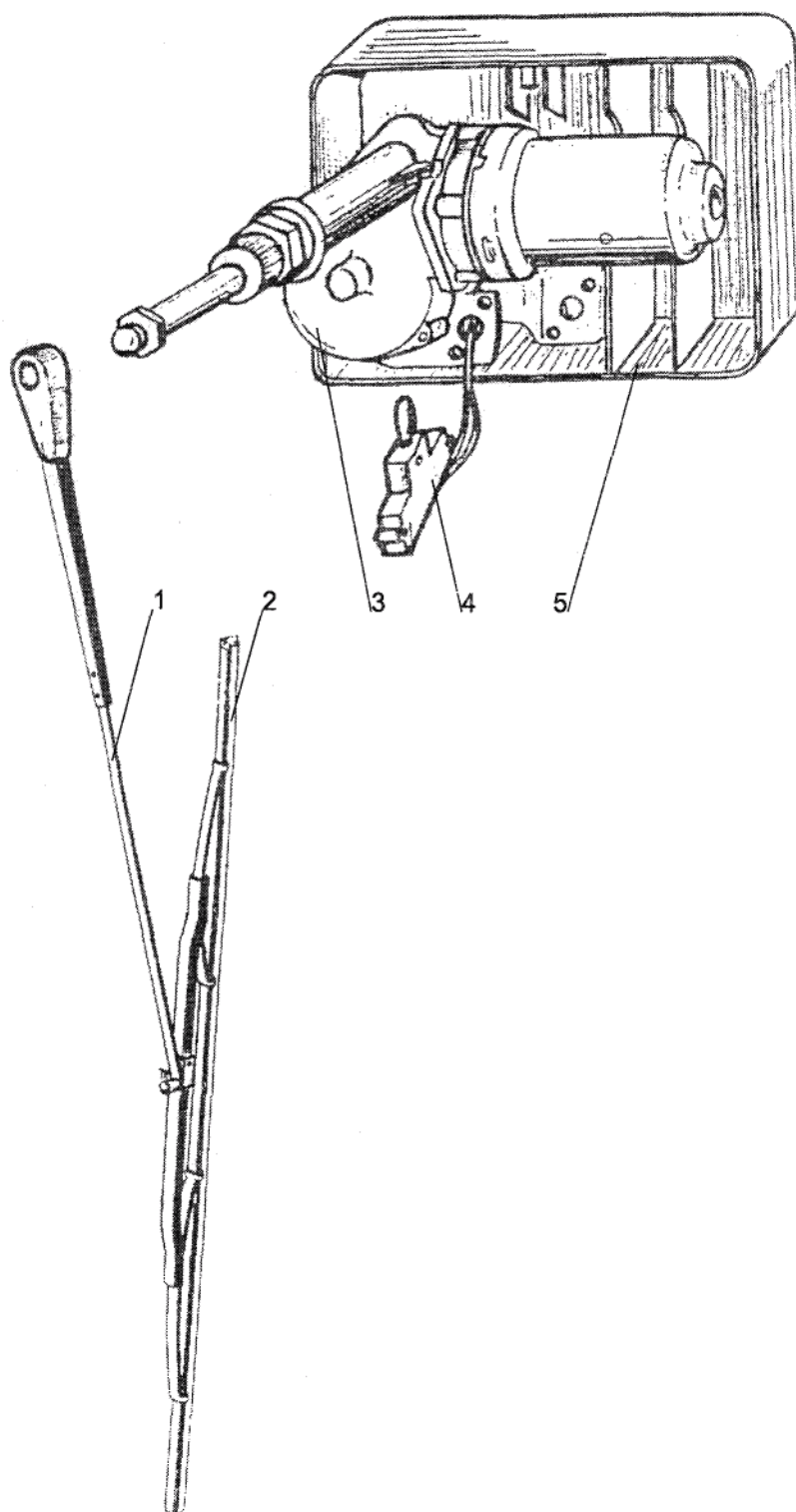


Fig. 52.2. Rear screen wiper

**Group 52. Screen wipers**

**Subgroup 5205. Rear screen wiper**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                   |
|-------------|--------|------------------------------|------|------------------------|
| <b>52.2</b> |        | T240                         | 1    | Windscreen wiper (1-5) |
|             | 1      | T240-5205300                 | 1    | Lever                  |
|             | 2      | 31.5205400-01                | 1    | Brush                  |
|             | 3      | T240-5205015                 | 1    | Reduction gear unit    |
|             | 4      | CП230-5205440                | 1    | Switch                 |
|             | 5      | T240-5205712                 | 1    | Housing                |

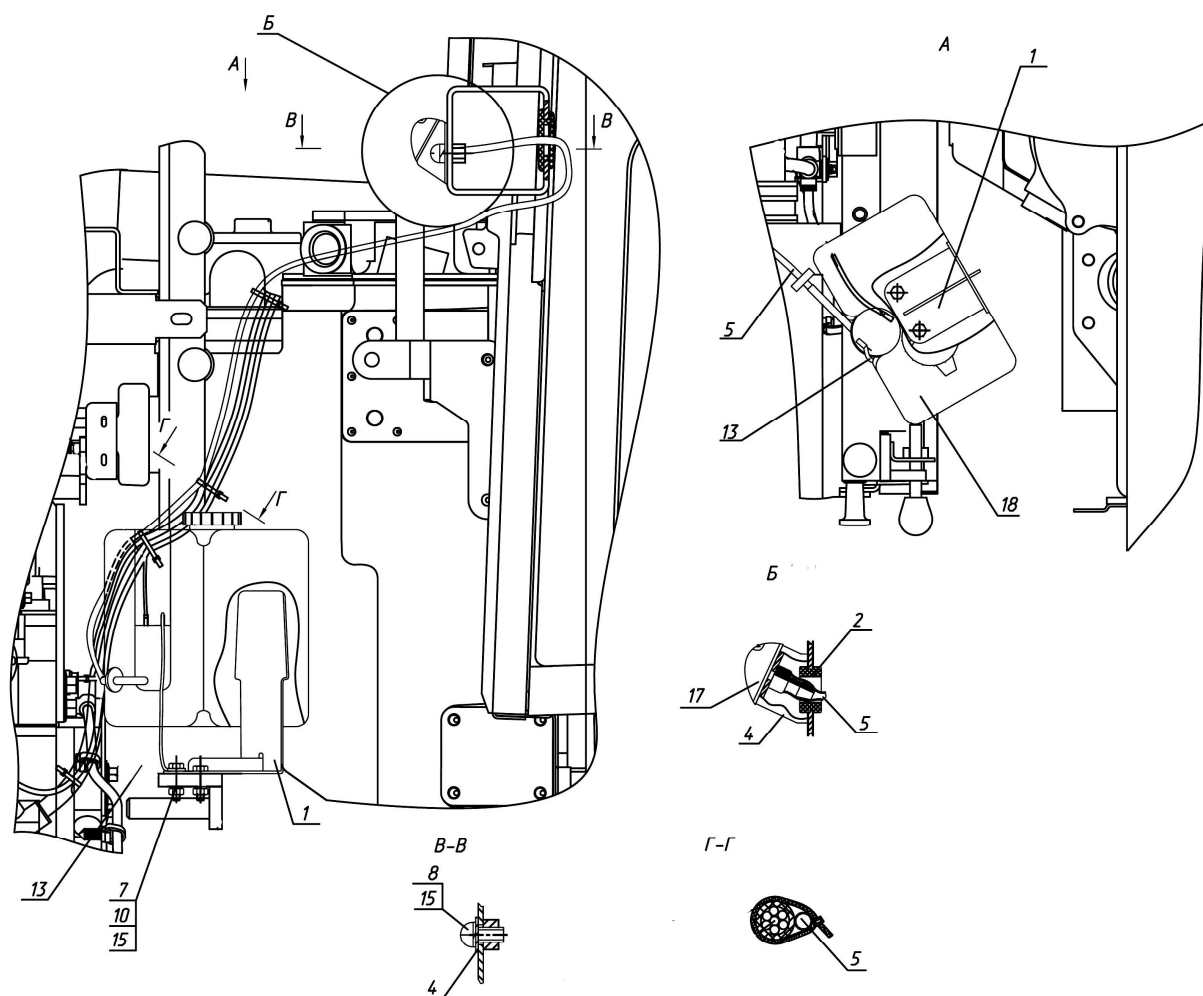


Fig. 52.3 Screen washer installation

**Group 52. Screen wipers**  
**Subgroup 5208. Screen washer installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                           |
|-------------|--------|------------------------------|------|------------------------------------------------|
| <b>52.3</b> |        | 1221-5208010                 | 1    | Screen washer installation                     |
|             | 1      | 1221-5208005                 | 1    | Bracket                                        |
|             | 2      | 70-3723042-01                | 1    | Bushing                                        |
|             | 4      | 80-5208011-A                 | 1    | Flange                                         |
|             | 5      | 923-5208002-02               | 1    | Pipe                                           |
|             | 7      | M6-6gx25.88.35.019           | 2    | Bolt GOST 7798-70                              |
|             | 8      | B.M6-6gx12.58.019            | 2    | Screw GOST 17473-80                            |
|             | 10     | M6-6H.6.019                  |      | Nut GOST 5915-70                               |
|             | 13     | 920-3724224                  | 1    | Cable GOST 23544-84                            |
|             | 15     | 6T                           | 4    | Washer OST 37.001.115-75                       |
|             | 17     | 5208.10                      | 1    | Fuel jet 1202.5208500-02 or<br>АДЮИ.306549.001 |
|             | 18     | 122.5208 000                 | 1    | Electrical washer TU 37.459.176-94             |

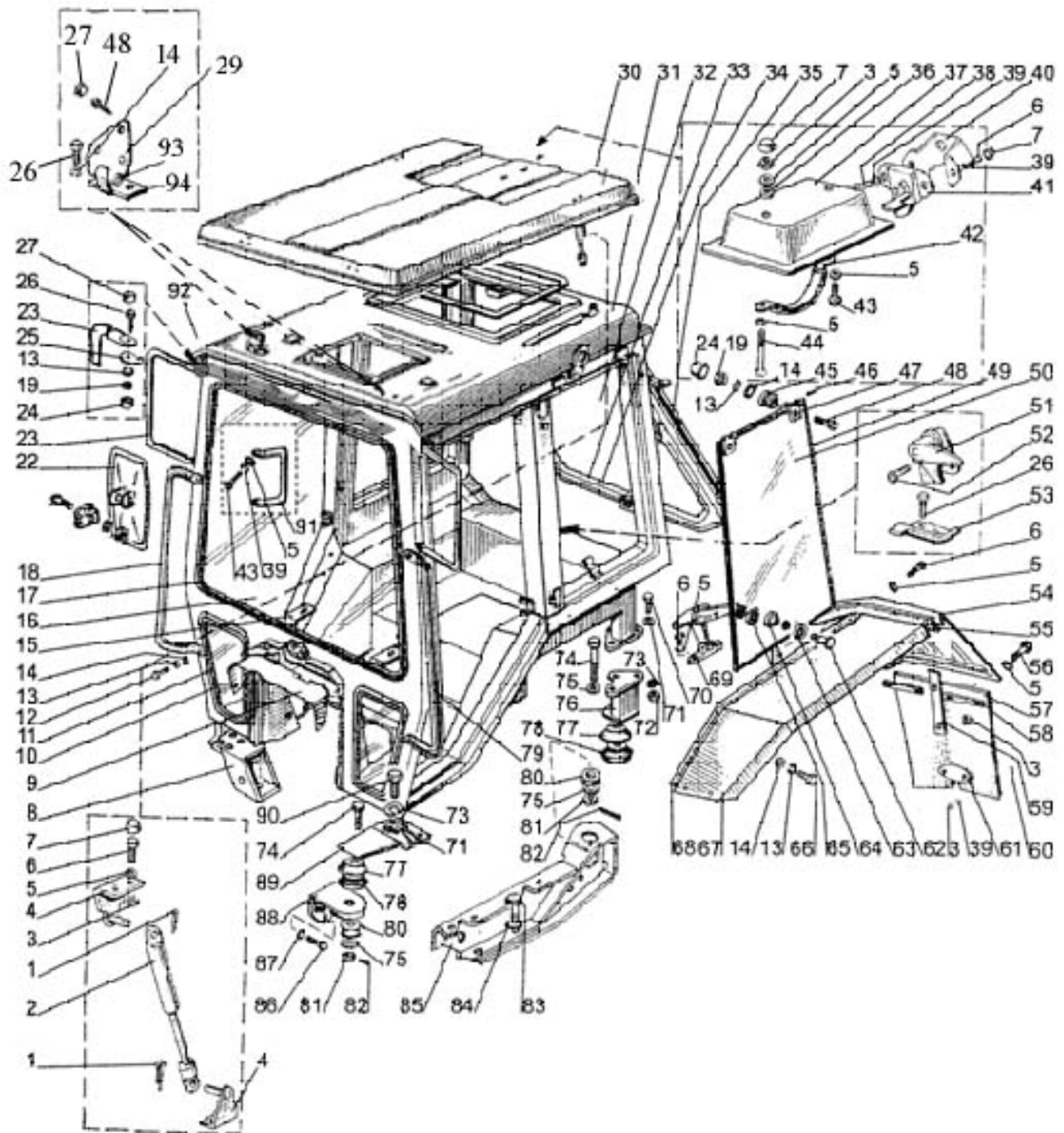


Fig. 67.1. Tractor cabin

**Group 67. Tractor cabin**  
**Subgroup 6700. Tractor cabin**

| Fig.No      | Pos.No | Assembly unit or part number       | Q-ty | Name                                       |
|-------------|--------|------------------------------------|------|--------------------------------------------|
| <b>67.1</b> |        | 1221-6700010                       | 1    | Cabin assembly                             |
|             |        | 80-6708210                         | 1    | Rear frame (32-35)                         |
|             |        | 80-6708900-01                      | 2    | Glass assembly (13, 14, 19, 24, 45, 47-50) |
|             | 1      | 3,2x18                             | 10   | Forelock                                   |
|             | 2      | 21.054                             | 4    | Air hoist                                  |
|             | 3      | M6                                 | 22   | Nut                                        |
|             | 4      | 80-6708225                         | 6    | Bracket                                    |
|             | 5      | ШЧ 6                               | 24   | Washer                                     |
|             | 6      | M6x16                              | 32   | Bolt                                       |
|             | 7      | A30.04.017                         | 10   | Cap                                        |
|             | 8      | 80-6700031-Б-01                    | 1    | Right bracket                              |
|             | 9      | 85-6703056                         | 1    | Insert                                     |
|             | 10     | 80-6703012-A1 or<br>80-6703012-A   | 2    | Glass                                      |
|             | 11     | A37.08.043 or<br>A37.08.043-01     | 2    | Seal                                       |
|             |        |                                    | 1    | Seal                                       |
|             | 12     | M8x25                              | 4    | Bolt                                       |
|             | 13     | ШП 8                               | 34   | Washer                                     |
|             | 14     | ШЧ 8                               | 34   | Washer                                     |
|             | 15     | 80-3805030                         | 2    | Bracket                                    |
|             | 16     | 80-67030111-A1 or<br>80-67030111-A | 1    | Glass                                      |
|             | 17     | 80-6700018                         | 1    | Seal L=4200 mm                             |
|             | 18     | 80-6703105                         | 1    | Handrail                                   |
|             | 19     | M8                                 | 6    | Nut                                        |
|             | 22     | 80-8201050                         | 2    | Mirror                                     |
|             | 23     | 80-8201106-Б                       | 2    | Pipe                                       |
|             | 24     | A30.04.017-02                      | 4    | Cap                                        |
|             | 25     | 80-8201107                         | 4    | Washer                                     |
|             | 26     | M8x16                              | 8    | Bolt                                       |
|             | 27     | A30.04.017-01                      | 13   | Cap                                        |
|             | 28     | A37.08.017                         | 1    | Seal                                       |
|             | 29     | 80-6707010-Б                       | 2    | Hinge                                      |
|             | 30     | 80П-6707025-Б or<br>80-6707025-Б4  | 1    | Roof assembly                              |
|             | 31     | 1221-6700020                       | 1    | Cabin (fabricated frame)                   |
|             | 32     | 80-6708211-A1 or<br>80-6708211-A   | 1    | Glass                                      |
|             | 33     | 80-6708215                         | 1    | Frame                                      |
|             | 34     | A37.08.043-05                      | 1    | Seal                                       |
|             | 35     | 80-6700021-01*                     | 1    | Seal                                       |
|             | 36     | 549-1305044                        | 2    | Gasket                                     |
|             | 37     | 80-6707082                         | 1    | Facing                                     |
|             | 38     | M6x12                              | 2    | Screw                                      |
|             | 39     | ШП 6                               | 14   | Washer                                     |
|             | 40     | 80-6707075                         | 1    | Bracket                                    |
|             | 41     | A37.09.010                         | 1    | Latch                                      |
|             | 42     | 80-6707080                         | 1    | Handrail                                   |
|             | 43     | M6x20                              | 1    | Screw                                      |
|             | 44     | M6x50                              | 1    | Screw                                      |

\* Substitution for 80-6700026-02 is permitted.



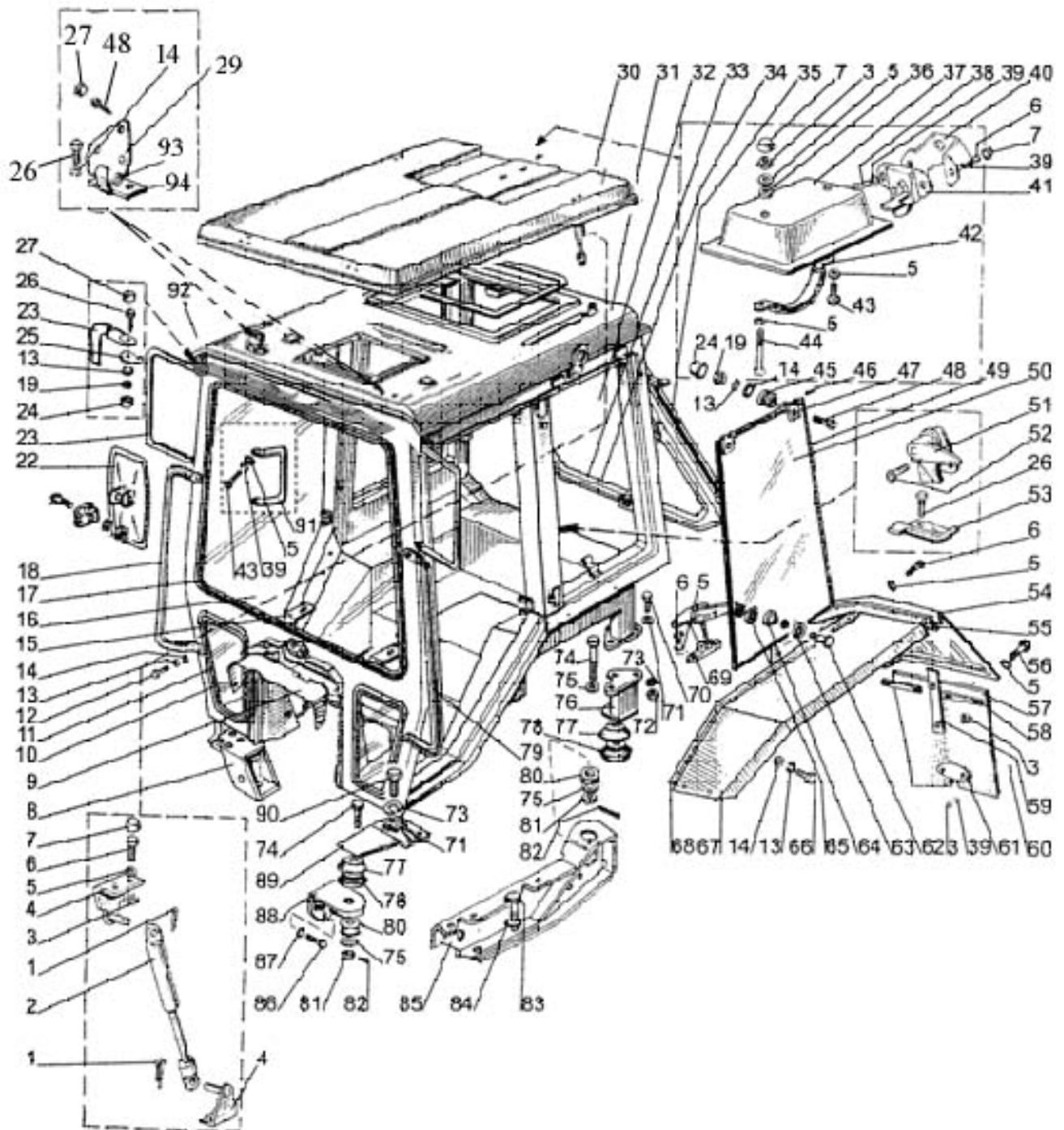


Fig. 67.1. Tractor cabin

**Group 67. Tractor cabin  
Subgroup 6700. Tractor cabin**

| Fig.No      | Pos.No | Assembly unit or part number         | Q-ty | Name              |
|-------------|--------|--------------------------------------|------|-------------------|
| <b>67.1</b> | 45     | 80-6708903                           | 4    | Bushing           |
|             | 46     | 8x65                                 | 4    | Pin               |
|             | 47     | 80-6708902                           | 4    | Hinge             |
|             | 48     | M8x30                                | 10   | Bolt              |
|             | 49     | Φ-202                                | 2    | Seal              |
|             | 50     | 1221-6708901-A1 or<br>1221-6708901-A | 2    | Glass             |
|             | 51     | A37.05.025                           | 1    | Detent            |
|             | 52     | M6x25                                | 2    | Screw             |
|             | 53     | A37.05.021                           | 1    | Bracket           |
|             | 54     | 80-8404020-Б                         | 1    | Wing flap (left)  |
|             |        | 80-8404020-Б-01                      | 1    | Wing flap (right) |
|             | 55     | 80-8404014-A                         | 2    | Seal              |
|             | 56     | M6x25                                | 10   | Bolt              |
|             | 57     | 85-8404040-A                         | 2    | Splash guard      |
|             | 58     | 80-8404032                           | 4    | Plate             |
|             | 59     | 80-8404031-Б                         | 2    | Spring            |
|             | 60     | M6x16                                | 6    | Screw             |
|             | 61     | 80-8404034-A                         | 2    | Plate             |
|             | 62     | 80-6708975                           | 2    | Screw             |
|             | 63     | 80-6708904                           | 2    | Gasket            |
|             | 64     | A37.01.041                           | 2    | Bushing           |
|             | 65     | 80-6708961                           | 4    | Washer            |
|             | 66     | M8x20                                | 22   | Bolt              |
|             | 67     | 80-8404011-Б                         | 1    | Left wing         |
|             |        | 80-8404011-Б-01                      | 1    | Right wing        |
|             | 68     | 80-8404013-A                         | 2    | Seal              |
|             | 69     | 80-6708970                           | 2    | Handle            |
|             | 70     | M12x25                               | 6    | Bolt              |
|             | 71     | ШЧ 12                                | 6    | Washer            |
|             | 72     | M12                                  | 6    | Nut               |
|             | 73     | ШП 12                                | 6    | Washer            |
|             | 74     | 80-6700029                           | 4    | Bolt              |
|             | 75     | ШП 16                                | 12   | Washer            |
|             | 76     | 1221-6700035                         | 1    | Left support      |
|             |        | 1221-6700035-01                      | 1    | Right support     |
|             | 77     | 80-6700163                           | 4    | Cage              |
|             | 78     | 80-6700160                           | 4    | Vibroisolator     |
|             | 79     | 80-6703105                           | 1    | Handrail          |
|             | 80     | 130-5001364-B                        | 4    | Cushion           |
|             | 81     | M16                                  | 4    | Nut               |
|             | 82     | 4x36                                 | 4    | Forelock          |
|             | 83     | M20x75                               | 4    | Bolt              |
|             | 84     | ШП 20                                | 4    | Washer            |
|             | 85     | 1221-6702300                         | 1    | Right bracket     |
|             |        | 1221-6702300-01                      | 1    | Left bracket      |
|             | 86     | M16x45                               | 6    | Bolt              |
|             | 87     | ШП 16                                | 6    | Washer            |
|             | 88     | 85-6702068                           | 2    | Bracket           |
|             | 89     | 80-6700031-Б                         | 1    | Bracket           |

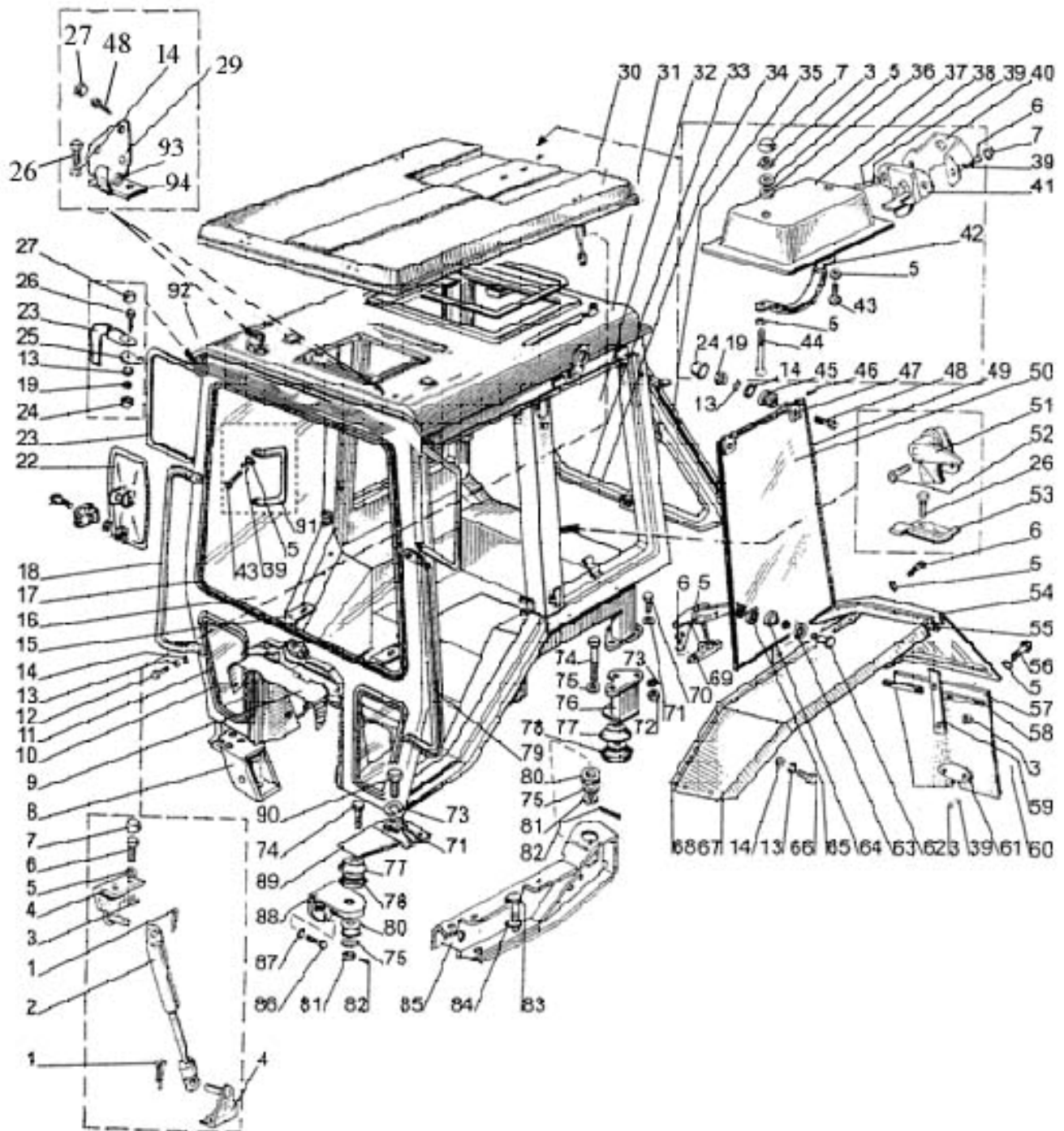


Fig. 67.1. Tractor cabin

**Group 67. Tractor cabin**  
**Subgroup 6700. Tractor cabin**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name   |
|-------------|--------|------------------------------|------|--------|
| <b>67.1</b> | 90     | M12x35                       | 8    | Bolt   |
|             | 91     | 80-6708209                   | 2    | Handle |
|             | 92     | 1221-6707037-B               | 1    | Insert |
|             | 93     | 70-6708189                   | 2    | Axis   |
|             | 94     | 80-6707013                   | 2    | Hinge  |



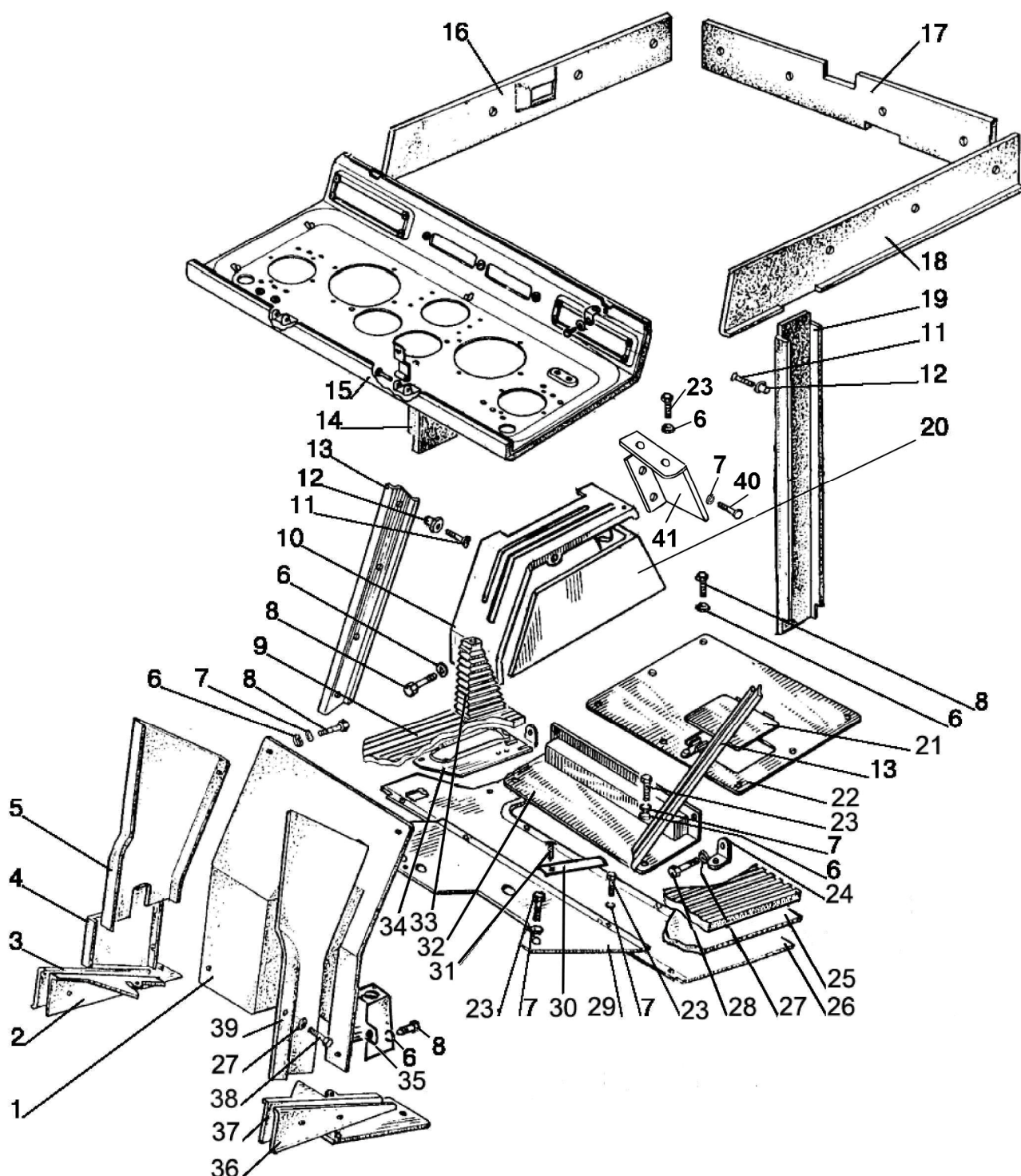


Fig. 67.2. Cabin floor

**Group 67. Tractor cabin**  
**Subgroup 6702. Cabin floor**

| Fig.No | Pos.No | Designation                     | Q-ty   | Name                                  |
|--------|--------|---------------------------------|--------|---------------------------------------|
| 67.2   | 1      | 80-6700300                      | 1      | Panel                                 |
|        | 2      | 80-6702330                      | 1      | Lining                                |
|        | 3      | 80-6702328-01                   | 1      | Side member                           |
|        | 4      | 85-6700330                      | 1      | Panel                                 |
|        | 5      | 85-6700340                      | 1      | Panel                                 |
|        | 6      | C 6.01.019 GOST 6858-78         | 22     | Washer                                |
|        | 7      | 6T OST 37.001.115-75            | 20     | Washer                                |
|        | 8      | M8-6gx25.88.35.019 GOST 7796-70 | 14     | Bolt                                  |
|        | 9      | 6702.337                        | 1      | Floor mat                             |
|        | 10     | 1221-6700036 or<br>85-6700036-B | 1      | Cover                                 |
|        | 11     | 1-4x25.019 GOST 1144-80         | 28     | Male screw                            |
|        | 12     | A37.10.031                      | 28     | Threaded rivet nut                    |
|        | 13     | 80-6702111                      | 1      | Clamp                                 |
|        | 14     | 1221Д-6700050                   | 1      | Lining installation                   |
|        | 15     | 80-8100100                      | 1      | Panel                                 |
|        | 16     | 1221-6700065                    | 1      | Lining                                |
|        | 17     | 80-6700205                      | 1      | Lining                                |
|        | 18     | 1221-6700050                    | 1      | Lining                                |
|        | 19     | 1221-6700060                    | 1      | Lining                                |
|        | 20     | 85-6700040-Б                    | 1      | Control panel                         |
|        | 21     | 80-6702190-Б                    | 1      | Cover                                 |
|        | 22     | 85-6702390-Б                    | 1      | Cover                                 |
|        | 23     | M6-6gx16.88.35.019 GOST 7798-70 | 19     | Bolt                                  |
|        | 24     | 70-6702111                      | 2      | Elbow                                 |
|        | 25     | 80-6702468-A                    | 1      | Gasket                                |
|        | 26     | 80-6702315-Б                    | 1      | Panel                                 |
|        | 27     | C 6.01.019 GOST 11371-78        | 10     | Washer                                |
|        | 28     | M8-6gx16.88.35.019 GOST 7796-70 | 4      | Bolt                                  |
|        | 29     | 80-6702310                      | 1      | Floor piece                           |
|        | 30     | 80-6702348                      | 1      | Left clamp                            |
|        |        | 80-6702348-01                   | 1      | Right clamp                           |
|        | 31     | B.M6-6gx12.58.019 GOST 17473-80 | 4      | Screw                                 |
|        | 32     | 80-6702085                      | 1      | Cover                                 |
|        | 33     | 80-6702243 or<br>80П-6702270    | 1<br>1 | Case (rubber)<br>Case (vinyl-leather) |
|        | 34     | 80-6702820                      | 1      | Lining                                |
|        | 35     | 80-6700370-Б                    | 1      | Housing                               |
|        | 36     | 80-6702328                      | 1      | Side member                           |
|        | 37     | 80-6702320                      | 1      | Lining                                |
|        | 38     | M8-6gx40.88.35.019 GOST 7795-70 | 2      | Bolt                                  |
|        | 39     | 80-6700320                      | 1      | Panel                                 |
|        | 40     | M6-6gx20.88.35.019 GOST 7798-70 | 5      | Bolt                                  |
|        | 41     | 80-6700085                      | 1      | Bracket                               |

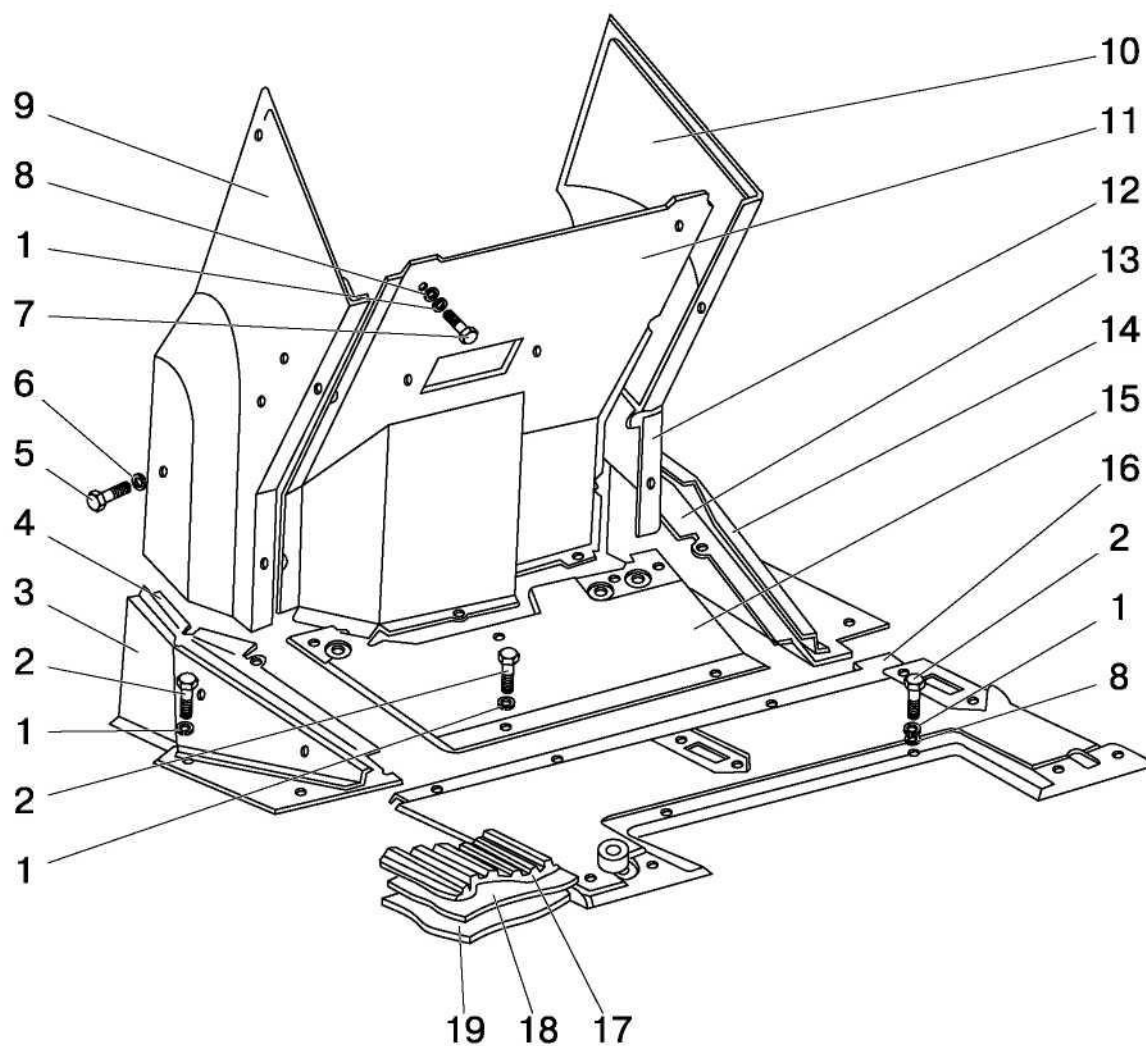


Fig. 67.3. Panels

**Group 67. Tractor cabin**  
**Subgroup 6700. Panels**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name            |
|-------------|--------|------------------------------|------|-----------------|
| <b>67.3</b> | 1      | ШП 6                         | 24   | Washer          |
|             | 2      | M6x16                        | 16   | Bolt            |
|             | 3      | 80-6702328                   | 1    | Lining          |
|             | 4      | 80-6702320                   | 1    | Side member     |
|             | 5      | M8x40                        | 2    | Bolt            |
|             | 6      | ШЧ 8                         | 2    | Washer          |
|             | 7      | M6x25                        | 8    | Bolt            |
|             | 8      | ШЧ 6                         | 18   | Washer          |
|             | 9      | 80-6700320                   | 1    | Panel           |
|             | 10     | 85-6700340                   | 1    | Panel           |
|             | 11     | 80-6700300                   | 1    | Panel           |
|             | 12     | 85-6700330                   | 1    | Panel           |
|             | 13     | 80-6702328-01                | 1    | Lining          |
|             | 14     | 80-6702330                   | 1    | Side member     |
|             | 15     | 80-6702310                   | 1    | Floor piece     |
|             | 16     | 80-6702315-Б                 | 1    | Panel           |
|             | 17     | 80-6702332                   | 1    | Left floor mat  |
|             |        | 80-6702333-Б2                | 1    | Right floor mat |
|             | 18     | 80-6702 469-Б                | 1    | Gasket          |
|             | 19     | 80-6702 468-Б                | 1    | Gasket          |



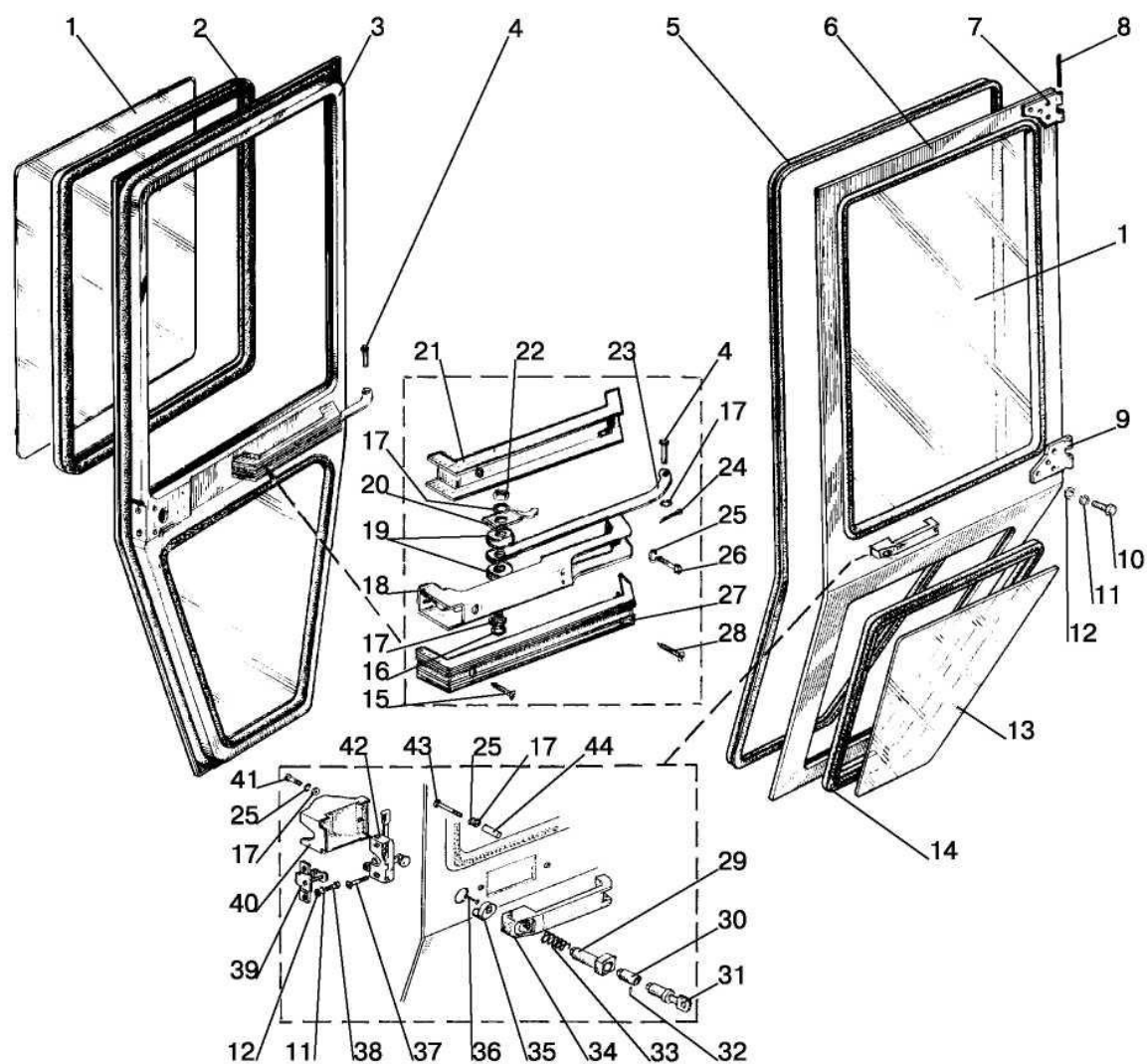


Fig. 67.4. Cabin doors

**Group 67. Tractor cabin  
Subgroup 6708. Cabin doors**

| Fig.No      | Pos.No | Assembly unit or part number     | Q-ty | Name                         |
|-------------|--------|----------------------------------|------|------------------------------|
| <b>67.4</b> |        | 80-6708010-Б                     | 1    | Left door (1, 2, 5-7, 9-14)  |
|             |        | 80-6708010-Б-01                  | 1    | Right door (1-3, 5, 7, 9-14) |
|             | 1      | 80-6708013-A1 or<br>80-6708013-A | 2    | Glass                        |
|             | 2      | A37.08.043-02                    | 2    | Seal L=2720mm                |
|             | 3      | 80-6708020-Б-01                  | 1    | Door                         |
|             | 4      | 8x30                             | 2    | Pin                          |
|             | 5      | 80-6700021                       | 2    | Profile                      |
|             | 6      | 80-6708020-Б                     | 1    | Door                         |
|             | 7      | A37.03.022-Б                     | 2    | Upper hinge                  |
|             | 8      | A37.03.012                       | 4    | Axis                         |
|             | 9      | A37.03.022-Б-01                  | 2    | Lower hinge                  |
|             | 10     | M8x25                            | 12   | Bolt                         |
|             | 11     | ШП 8                             | 12   | Washer                       |
|             | 12     | ШЧ 8                             | 12   | Washer                       |
|             | 13     | 80-6708014-A1 or<br>80-6708014-A | 2    | Glass                        |
|             | 14     | A37.08.043-03                    | 2    | Seal                         |
|             | 15     | 1-4x40                           | 2    | Male screw                   |
|             | 16     | M6x35                            | 2    | Bolt                         |
|             | 17     | ШЧ 6                             | 6    | Washer                       |
|             | 18     | 80-6708610                       | 2    | Handrail                     |
|             | 19     | 80-6708619                       | 4    | Bumper                       |
|             | 20     | 80-6708618                       | 2    | Spring                       |
|             | 21     | 80-6708602                       | 2    | Lining                       |
|             | 22     | M6                               | 2    | Nut                          |
|             | 23     | 80-6708616 or<br>80-6708616-01   | 2    | Lever                        |
|             | 24     | 3,2x18                           | 2    | Forelock                     |
|             | 25     | ШП 6                             | 6    | Washer                       |
|             | 26     | M6x16                            | 2    | Bolt                         |
|             | 27     | 80-6708603                       | 2    | Lining                       |
|             | 28     | 1-4x25                           | 2    | Male screw                   |
|             | 29     | 80-6105301-Б                     | 2    | Button                       |
|             | 30     | 80-6105304-Б1                    | 2    | Bushing                      |
|             | 31     | 945.025.11.01.00                 | 2    | Cylinder mechanism           |
|             | 32     | 2x11,8                           | 2    | Pin                          |
|             | 33     | 80-6105302                       | 2    | Spring                       |
|             | 34     | 80-6105305                       | 2    | Handle                       |
|             | 35     | 80-6105303                       | 2    | Lifter                       |
|             | 36     | 1-4x16                           | 2    | Male screw                   |
|             | 37     | BM8x25                           | 4    | Screw                        |
|             | 38     | M8x16                            | 4    | Bolt                         |
|             | 39     | 80-6105170-Б                     | 2    | Latch                        |
|             | 40     | 80-6708812                       | 1    | Cover (left)                 |
|             |        | 80-6708812-01                    | 1    | Cover (right)                |
|             | 41     | M6x16                            | 2    | Screw                        |
|             | 42     | 80-6105050                       | 1    | Lock (left)                  |
|             |        | 80-6105050-01                    | 1    | Lock (right)                 |
|             | 43     | M6x45                            | 2    | Screw                        |
|             | 44     | 80-6708813                       | 2    | Bushing                      |

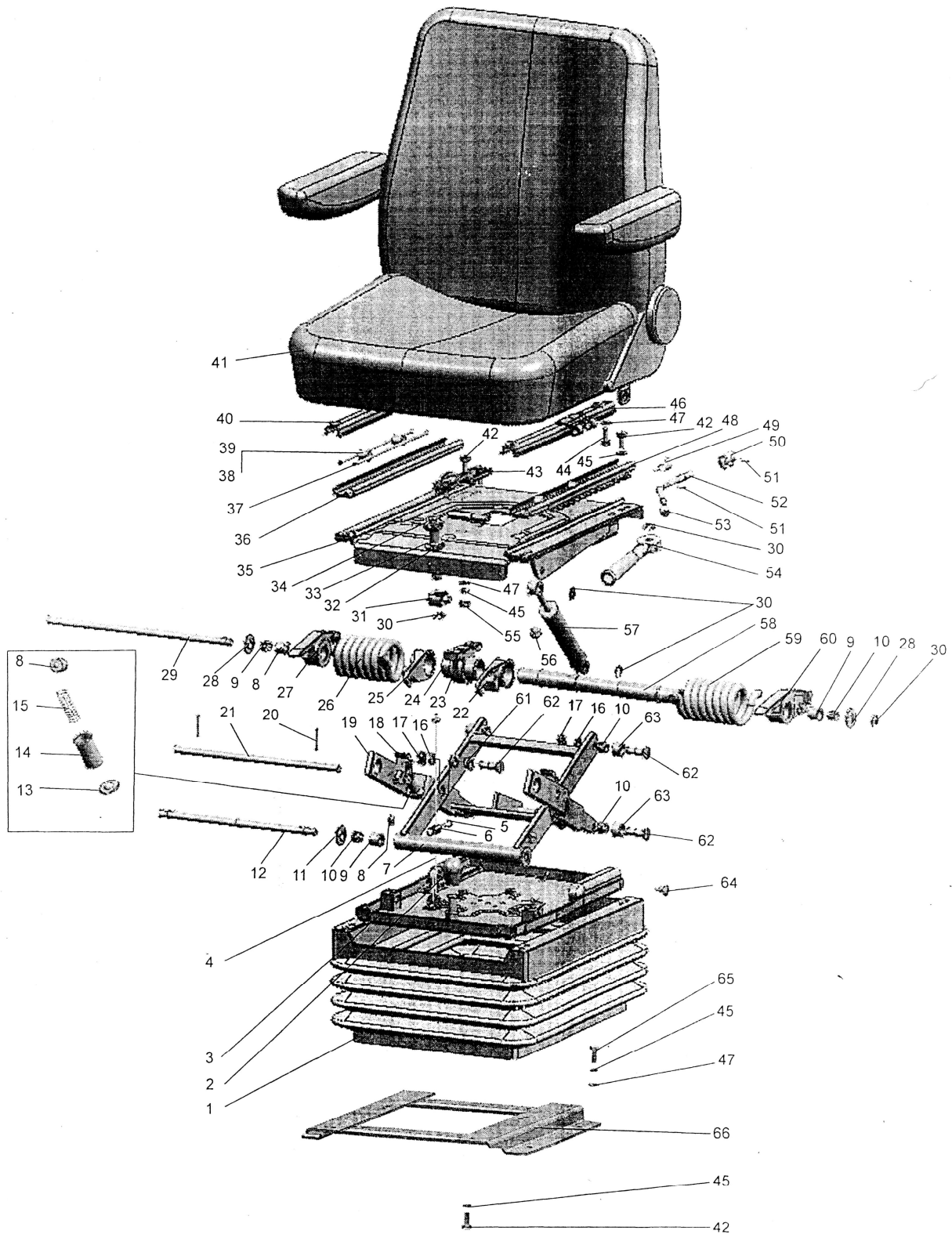


Fig. 68.1 Operator seat

**Group 68. Operator seat**  
**Subgroup 6800. Operator seat**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name      |
|-------------|--------|------------------------------|------|-----------|
| <b>68.1</b> |        | 80-6800010                   | 1    | Seat      |
|             |        | 80-6800010-01                | 1    | Seat      |
|             |        | «Grammer MSGS/721»           | 1    | Seat      |
|             | 1      | 80B-68001108                 | 1    | Case      |
|             | 2      | A61.01.014                   | 1    | Handle    |
|             | 3      | 80B-6801560                  | 1    | Base      |
|             | 4      | 80B-6801240                  | 1    | Rope      |
|             | 5      | M5x16                        | 2    | Screw     |
|             | 6      | 70-4803023                   | 1    | Coupling  |
|             | 7      | 80B-6801590-Б                | 1    | Frame     |
|             | 8      | 80B-6801521                  | 4    | Thrust    |
|             | 9      | 80B-6801512                  | 4    | Bushing   |
|             | 10     | K12x16x13E                   | 8    | Bearing   |
|             | 11     | 80B-6801033-01               | 2    | Washer    |
|             | 12     | 80B-6801508                  | 1    | Axis      |
|             | 13     | 80B-6801519                  | 2    | Foot step |
|             | 14     | 80B-6801518                  | 2    | Sleeve    |
|             | 15     | 80B-6801530-Б                | 2    | Spring    |
|             | 16     | ШП10                         | 6    | Washer    |
|             | 17     | M10                          | 6    | Nut       |
|             | 18     | 80B-6801581                  | 2    | Pawl      |
|             | 19     | 80B-6801570                  | 1    | Frame     |
|             | 20     | 4x22                         | 2    | Forelock  |
|             | 21     | 80B-6801012                  | 1    | Axis      |
|             | 22     | 80B-6801004-01               | 1    | Hook      |
|             | 23     | 80B-6801001                  | 1    | Bracket   |
|             | 24     | 80B-6801003                  | 1    | Axis      |
|             | 25     | 80B-6801004                  | 1    | Hook      |
|             | 26     | 80B-6801002                  | 1    | Spring    |
|             | 27     | 80B-6801507                  | 1    | Quadrant  |
|             | 28     | 80B-6801033                  | 2    | Washer    |
|             | 29     | 80B-6801506                  | 1    | Axis      |
|             | 30     | 70-6801307                   | 5    | Washer    |
|             | 31     | 80B-6801023                  | 1    | Nut       |
|             | 32     | 80B-6801008                  | 1    | Washer    |
|             | 33     | 3,0-100                      | 22   | Ball      |
|             | 34     | 80B-6801152                  | 1    | Screw     |
|             | 35     | 80-6801550                   | 1    | Panel     |
|             | 36     | 80-6800104                   | 1    | Guide     |
|             | 37     | 70-6804394-Б                 | 4    | Wire rod  |
|             | 38     | 70-6804391                   | 4    | Roller    |
|             | 39     | 010-015-30-2-3               | 4    | Ring      |
|             | 40     | 80-6800110-01                | 1    | Rail      |
|             | 41     | CT-154T.6800010              | 1    | Seat      |
|             |        | CT-154TM.6800010             | 1    | Seat      |
|             | 42     | M8x20                        | 11   | Bolt      |
|             | 43     | 80B-6801031                  | 1    | Enhancer  |
|             | 44     | M8x20                        | 4    | Screw     |
|             | 45     | ШП8                          | 15   | Washer    |
|             | 46     | 80-6800110                   | 1    | Rail      |
|             | 47     | ШЧ8                          | 10   | Washer    |

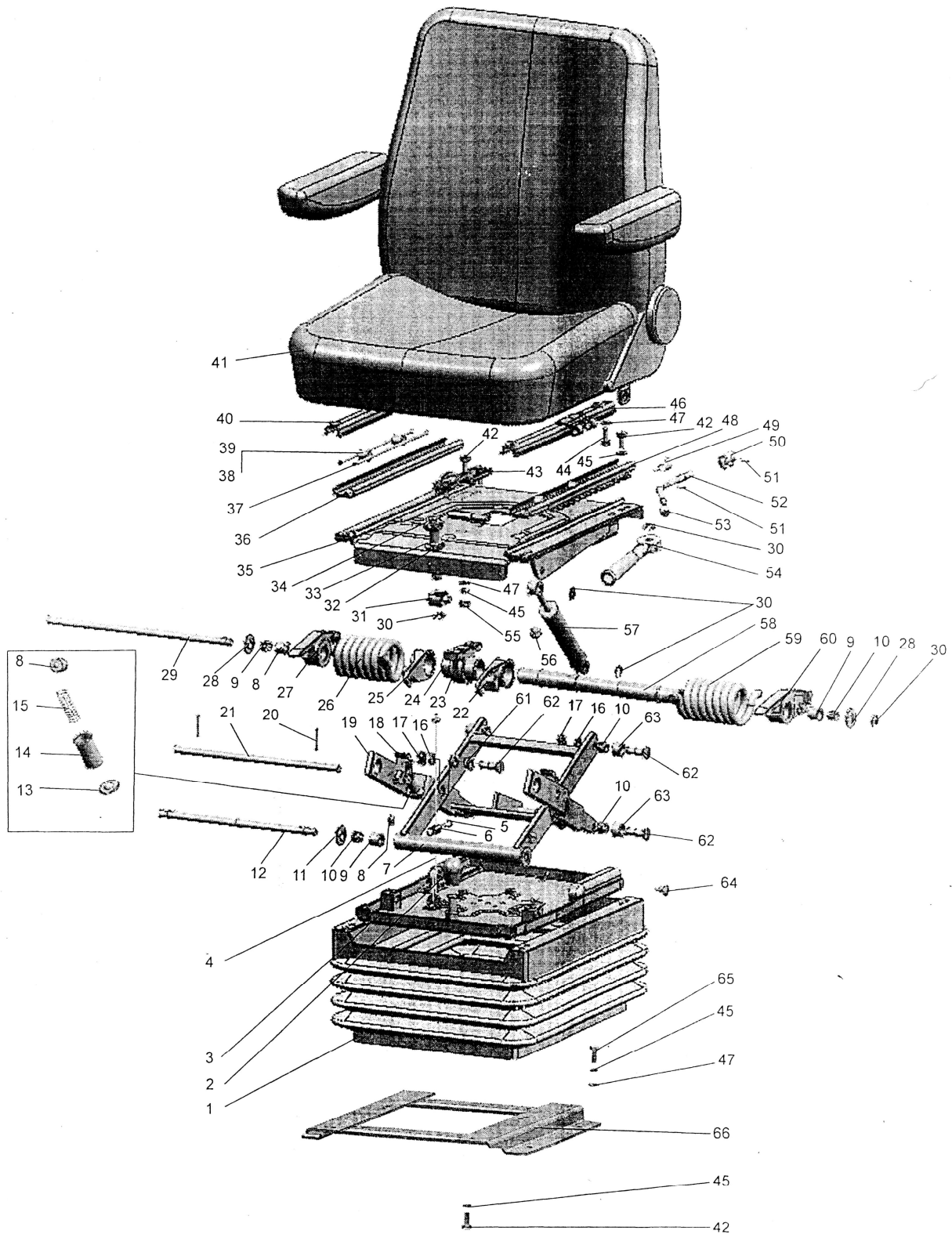


Fig. 68.1 Operator seat

**Group 68. Operator seat**  
**Subgroup 6800. Operator seat**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name           |
|-------------|--------|------------------------------|------|----------------|
| <b>68.1</b> | 48     | 80-6800120                   | 1    | Guide          |
|             | 49     | 80-6800103                   | 1    | Spring         |
|             | 50     | 80-6800102                   | 1    | Lock           |
|             | 51     | 70-4202431-01                | 2    | Pin            |
|             | 52     | 80-6800101                   | 1    | Handle         |
|             | 53     | 70-6801082                   | 1    | Handle         |
|             | 54     | 80B-6801150                  | 1    | Handle         |
|             | 55     | M8                           | 1    | Nut            |
|             | 56     | 80-6801531                   | 6    | Bumper         |
|             | 57     | 80-6809100-11                | 1    | Shock absorber |
|             | 58     | 80B-6801505                  | 1    | Shaft          |
|             | 59     | 80B-6801002-01               | 1    | Spring         |
|             | 60     | 80B-6801507-01               | 1    | Quadrant       |
|             | 61     | 80B-6801526                  | 4    | Bushing        |
|             | 62     | 80B-6801528                  | 6    | Axis           |
|             | 63     | 80B-6801032                  | 4    | Roller         |
|             | 64     | 80-6800006                   | 20   | Button         |
|             | 65     | M8x30                        | 4    | Bolt           |
|             | 66     | 80B-6807200                  | 1    | Bracket        |

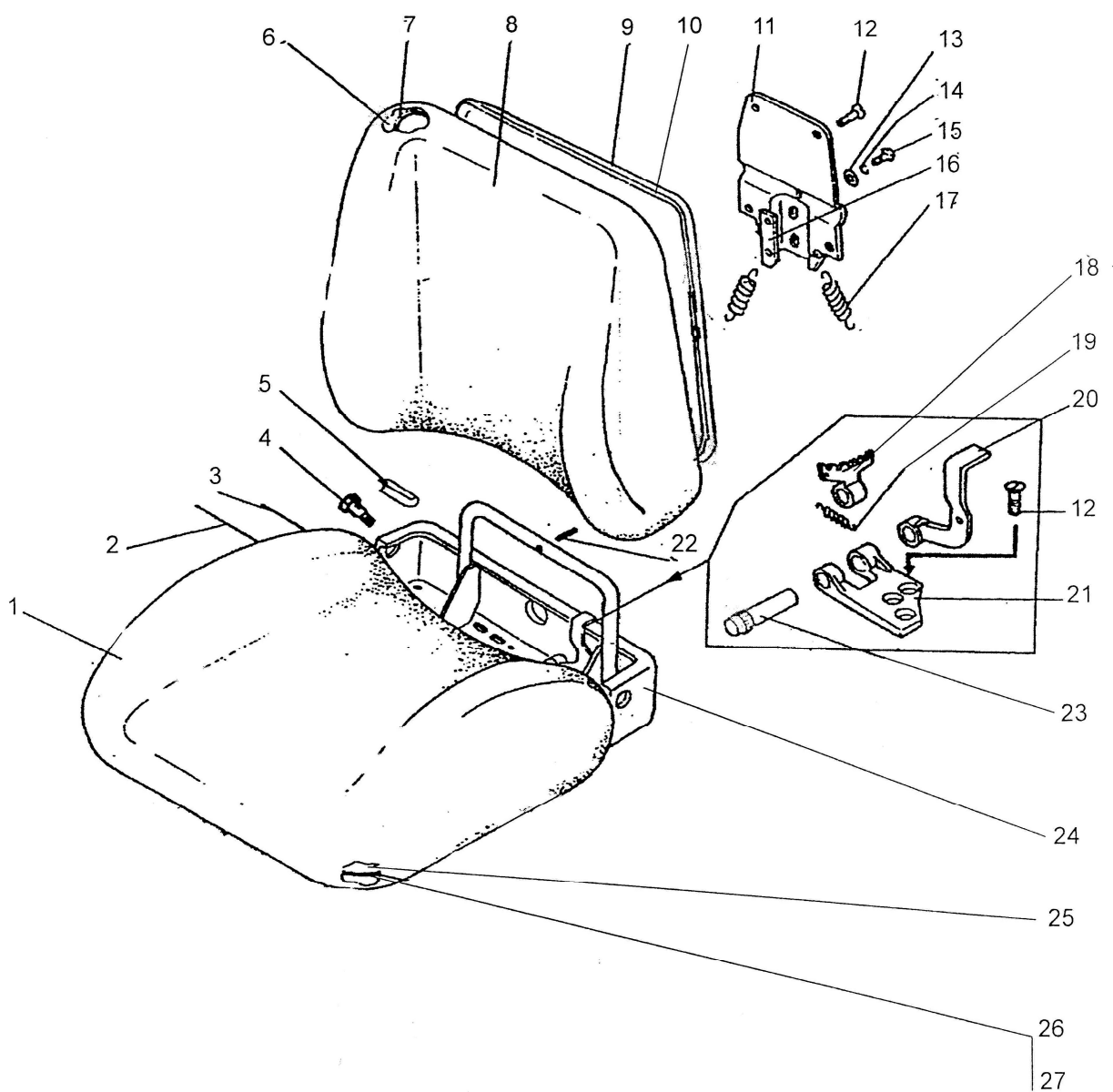


Fig. 68.2 Operator seat

**Group 68. Operator seat**  
**Subgroup 6804. Operator seat**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name      |
|-------------|--------|------------------------------|------|-----------|
| <b>68.2</b> |        | 80B-6800000                  | 1    | Seat      |
|             |        | 80B-6804000                  | 1    | Seat      |
|             | 1      | 80B-6804500                  | 1    | Case      |
|             | 2      | 80B-6804003                  | 1    | Wire rod  |
|             | 3      | 80B-6804009                  | 1    | Axis      |
|             | 4      | 80B-6800106                  | 2    | Bolt      |
|             | 5      | 80B-6804015                  | 2    | Bushing   |
|             | 6      | 80B-6805001                  | 1    | Cushion   |
|             | 7      | 80B-6805002                  | 1    | Frame     |
|             | 8      | 80B-6805500                  | 1    | Case      |
|             | 9      | ППР26-04                     | 1    | Profile   |
|             | 10     | 80B-6805010                  | 1    | Base      |
|             | 11     | 80B-6804040                  | 1    | Support   |
|             | 12     | M8x16                        | 7    | Screw     |
|             | 13     | ШЧ6                          | 2    | Washer    |
|             | 14     | ШП6                          | 2    | Washer    |
|             | 15     | M6x14                        | 2    | Bolt      |
|             | 16     | 80B-6804001                  | 1    | Latch     |
|             | 17     | 80B-6804013-Б                | 2    | Spring    |
|             | 18     | 80B-6804011                  | 1    | Guide bar |
|             | 19     | 50-1310158-Б                 | 1    | Spring    |
|             | 20     | 80B-6804080                  | 1    | Lever     |
|             | 21     | 80-6708011                   | 1    | Hinge     |
|             | 22     | 4x25                         | 1    | Forelock  |
|             | 23     | 70-6708189-01                | 1    | Axis      |
|             | 24     | 80B-6804020                  | 1    | Panel     |
|             | 25     | 80B-6804007                  | 1    | Cushion   |
|             | 26     | 80B-6804005                  | 1    | Frame     |
|             | 27     | ППР26-03                     | 1    | Profile   |



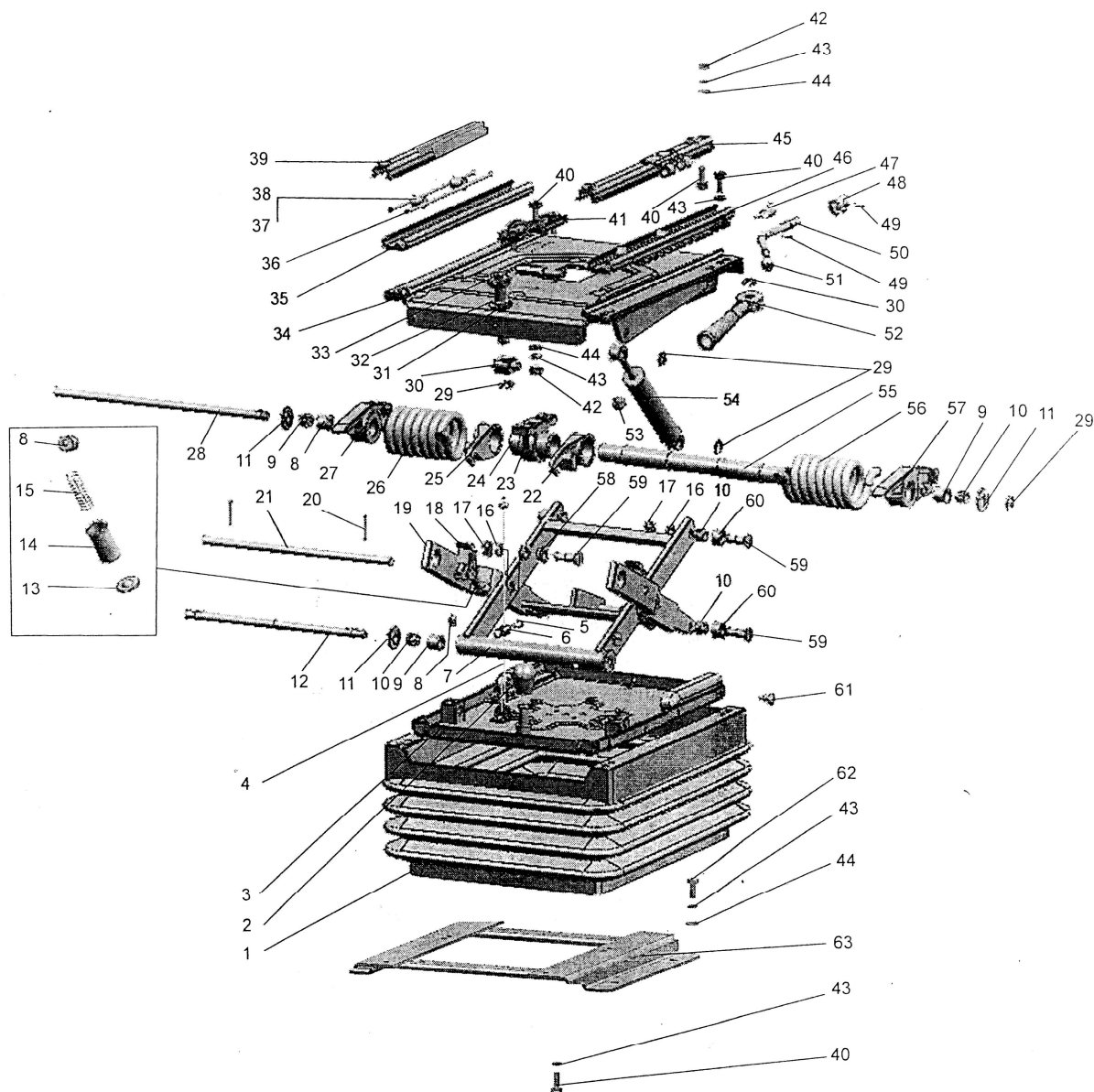


Fig. 68.3 Seat suspension

**Group 68. Operator seat  
Subgroup 6801. Seat suspension**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name       |
|-------------|--------|------------------------------|------|------------|
| <b>68.3</b> |        | 80-6801500                   | 1    | Suspension |
|             | 1      | 80B-6800108                  | 1    | Case       |
|             | 2      | A61.01.014                   | 1    | Handle     |
|             | 3      | 80B-6801560                  | 1    | Base       |
|             | 4      | 80B-6801240                  | 1    | Rope       |
|             | 5      | M5x16                        | 2    | Screw      |
|             | 6      | 70-4803023                   | 1    | Coupling   |
|             | 7      | 80B-6801590-Б                | 1    | Frame      |
|             | 8      | 80B-6801521                  | 4    | Thrust     |
|             | 9      | 80B-6801512                  | 4    | Bushing    |
|             | 10     | K12x16x13E                   | 8    | Bearing    |
|             | 11     | 80B-6801033                  | 4    | Washer     |
|             | 12     | 80B-6801508                  | 1    | Axis       |
|             | 13     | 80B-6801519                  | 2    | Foot step  |
|             | 14     | 80B-6801518                  | 2    | Sleeve     |
|             | 15     | 80B-6801530-Б                | 2    | Spring     |
|             | 16     | ШП10                         | 6    | Washer     |
|             | 17     | M10                          | 6    | Nut        |
|             | 18     | 80B-6801581                  | 2    | Pawl       |
|             | 19     | 80B-6801570                  | 1    | Frame      |
|             | 20     | 4x22                         | 2    | Forelock   |
|             | 21     | 80B-6801012                  | 1    | Axis       |
|             | 22     | 80B-6801004-01               | 1    | Hook       |
|             | 23     | 80B-6801001                  | 1    | Bracket    |
|             | 24     | 80B-6801003                  | 1    | Axis       |
|             | 25     | 80B-6801004                  | 1    | Hook       |
|             | 26     | 80B-6801002                  | 1    | Spring     |
|             | 27     | 80B-6801507                  | 1    | Quadrant   |
|             | 28     | 80B-6801506                  | 1    | Axis       |
|             | 29     | 70-6801307                   | 5    | Washer     |
|             | 30     | 80B-6801023                  | 1    | Nut        |
|             | 31     | 80B-6801008                  | 1    | Washer     |
|             | 32     | 3,0-100                      | 22   | Ball       |
|             | 33     | 80B-6801152                  | 1    | Screw      |
|             | 34     | 80-6801550                   | 1    | Panel      |
|             | 35     | 80-6800104                   | 1    | Guide      |
|             | 36     | 70-6804394-Б                 | 4    | Wire rod   |
|             | 37     | 70-6804391                   | 4    | Roller     |
|             | 38     | 010-015-30-2-3               | 4    | Ring       |
|             | 39     | 80-6800110-01                | 1    | Rail       |
|             | 40     | M8x20                        | 15   | Bolt       |
|             | 41     | 80B-6801031                  | 1    | Enhancer   |
|             | 42     | M8                           | 5    | Nut        |
|             | 43     | ШП8                          | 19   | Washer     |
|             | 44     | ШЧ8                          | 14   | Washer     |
|             | 45     | 80-6800110                   | 1    | Rail       |
|             | 46     | 80-6800120                   | 1    | Guide      |
|             | 47     | 80-6800103                   | 1    | Spring     |
|             | 48     | 80-6800102                   | 1    | Lock       |
|             | 49     | 70-4202431-01                | 2    | Pin        |
|             | 50     | 80-6800101                   | 1    | Handle     |

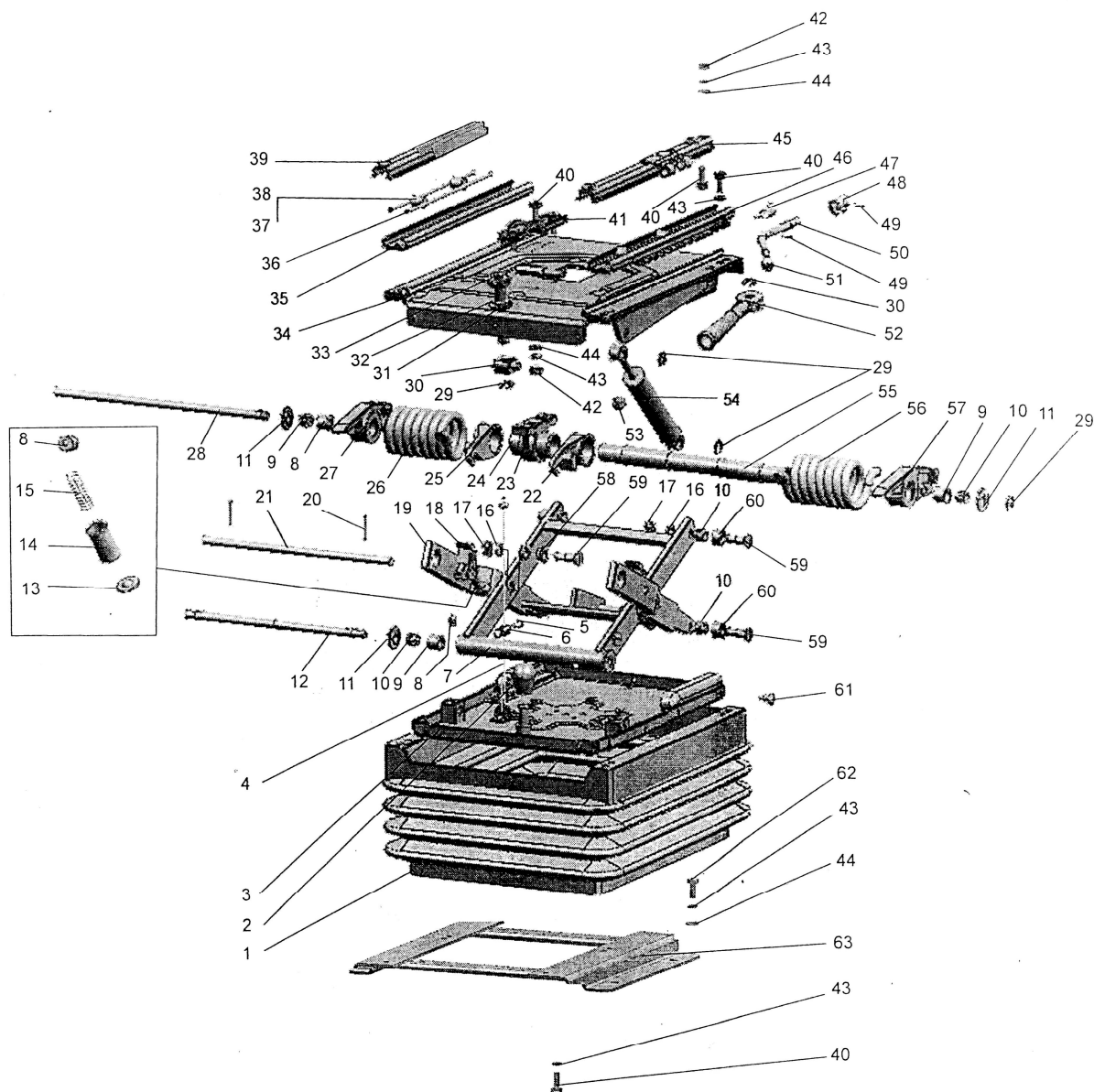


Fig. 68.3 Seat suspension

**Group 68. Operator seat**  
**Subgroup 6801. Seat suspension**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name           |
|-------------|--------|------------------------------|------|----------------|
| <b>68.3</b> | 51     | 70-6801082                   | 1    | Handle         |
|             | 52     | 80B-6801150                  | 1    | Handle         |
|             | 53     | 80-6801531                   | 6    | Bumper         |
|             | 54     | 80-6809100-11                | 1    | Shock absorber |
|             | 55     | 80B-6801505                  | 1    | Shaft          |
|             | 56     | 80B-6801002-01               | 1    | Spring         |
|             | 57     | 80B-6801507-01               | 1    | Quadrant       |
|             | 58     | 80B-6801526                  | 4    | Bushing        |
|             | 59     | 80B-6801528                  | 6    | Axis           |
|             | 60     | 80B-6801032                  | 4    | Roller         |
|             | 61     | 80-6800006                   | 20   | Button         |
|             | 62     | M8x30                        | 4    | Bolt           |
|             | 63     | 80B-6807200                  | 1    | Bracket        |

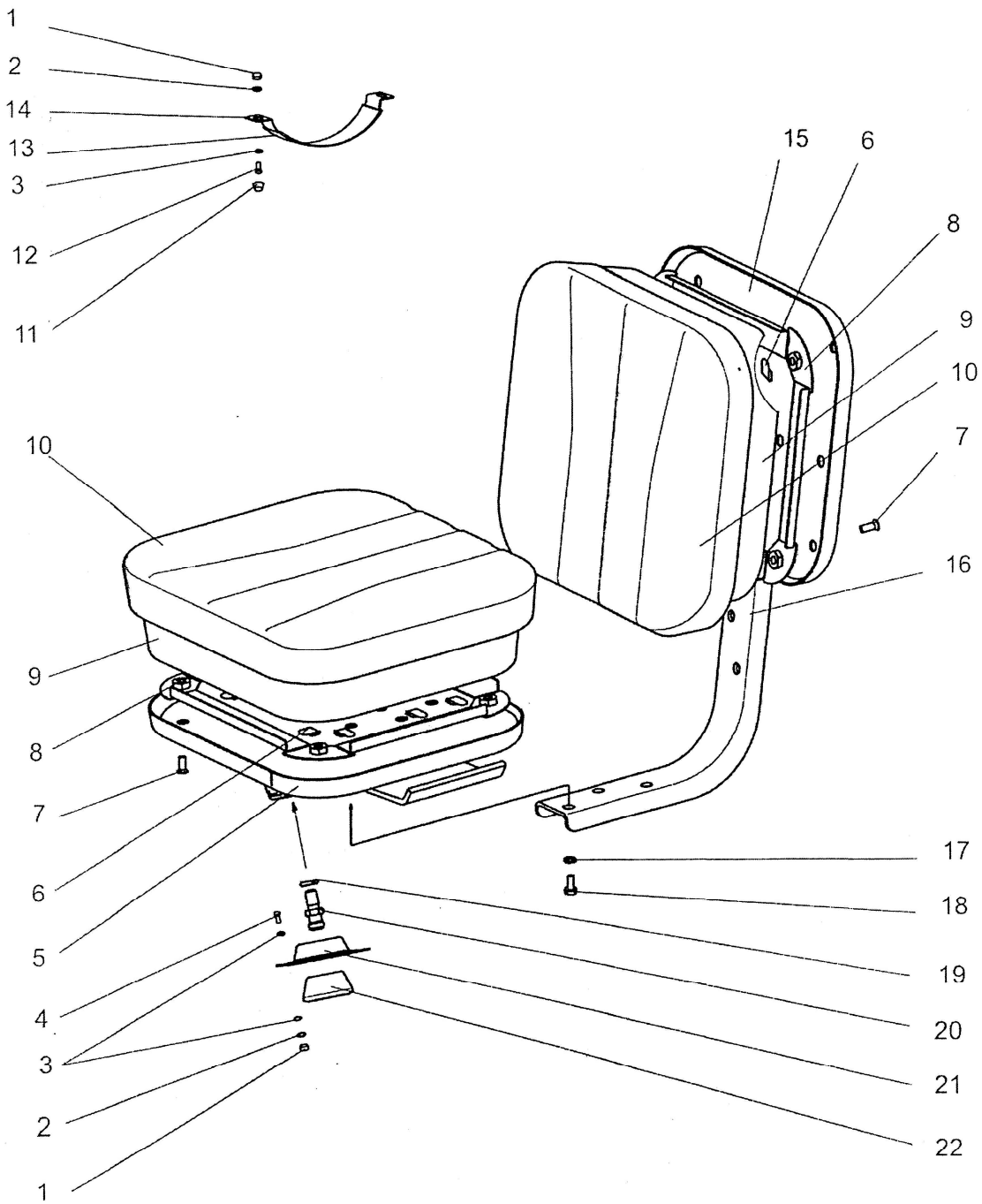


Fig. 68.4 Additional seat

**Group 68. Operator seat**  
**Subgroup 6801. Additional seat**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name              |
|-------------|--------|------------------------------|------|-------------------|
| <b>68.4</b> | 1      | M6                           | 6    | Nut               |
|             | 2      | ШП 6Т                        | 6    | Washer            |
|             | 3      | ШЧ 6                         | 10   | Washer            |
|             | 4      | M6x30                        | 4    | Bolt              |
|             | 5      | 1221-6809020                 | 1    | Base              |
|             | 6      | 2522-6809012                 | 20   | Clamp             |
|             | 7      | M8x16                        | 8    | Screw             |
|             | 8      | 2522-6809030                 | 2    | Framework         |
|             | 9      | 2522-6809011                 | 2    | Cushion           |
|             | 10     | 2522-6809040                 | 2    | Case              |
|             | 11     | A30.04.017                   | 2    | Cap               |
|             | 12     | M6x16                        | 2    | Bolt              |
|             | 13     | A37.08.019-01                | 1    | Handrail seal     |
|             | 14     | A37.07.011                   | 1    | Band              |
|             | 15     | 2522-6809060                 | 1    | Base              |
|             | 16     | 2522-6809006                 | 1    | Framework         |
|             | 17     | ШП 8Т                        | 6    | Washer            |
|             | 18     | M8x16                        | 6    | Bolt              |
|             | 19     | ШП 10 ОТ                     | 2    | Washer            |
|             | 20     | 70-6700031                   | 2    | Holder            |
|             | 21     | 70-6700116                   | 2    | Lining            |
|             | 22     | 50-3711038                   | 2    | Head lamp support |

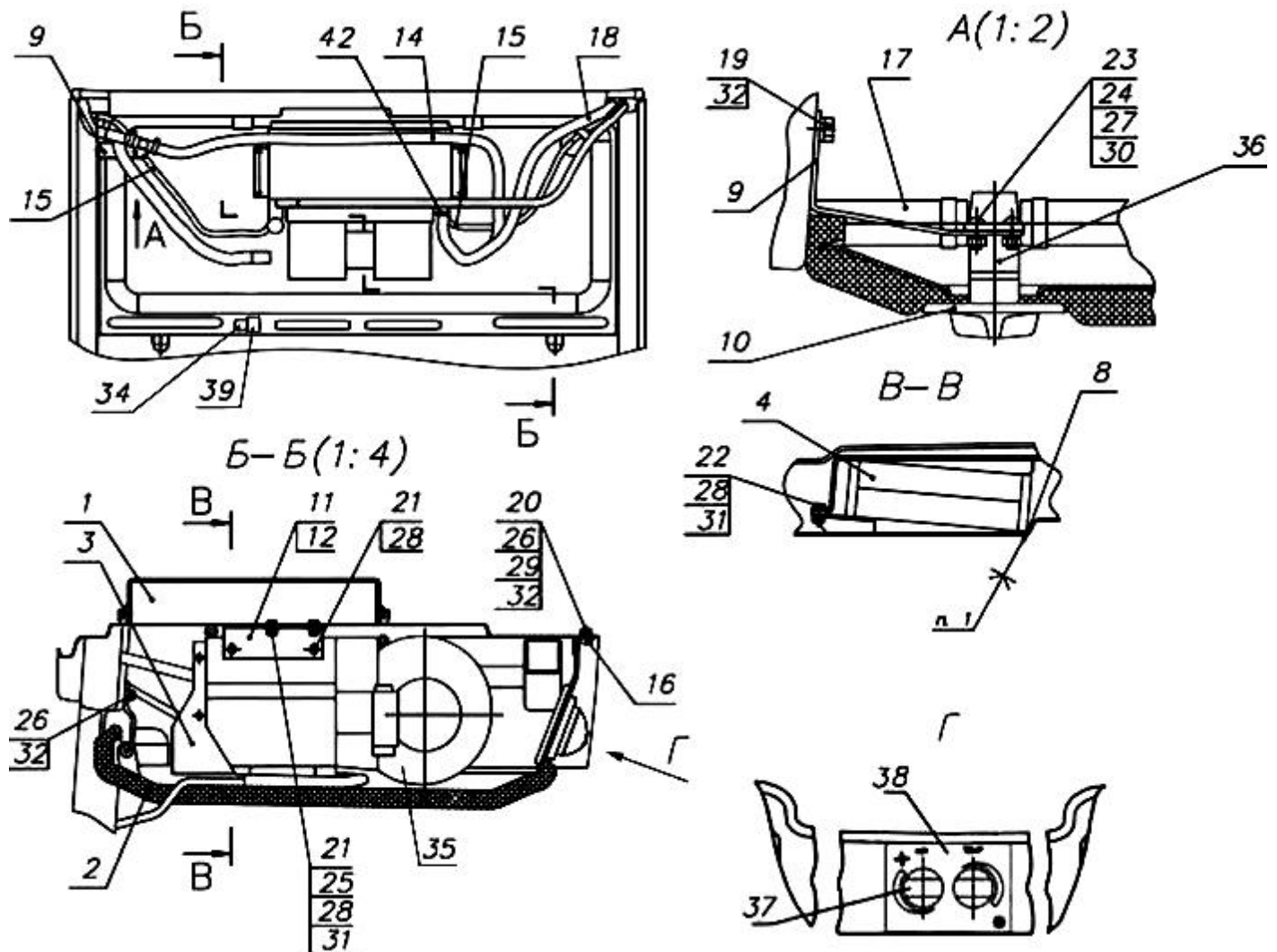


Fig. 81.1. Heater-cooler installation

**Group 81. Conditioner system**  
**Subgroup 8100. Heater-cooler installation**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                             |
|-------------|--------|------------------------------|------|----------------------------------|
| <b>81.1</b> | 1      | 80-8101760                   | 1    | Cover                            |
|             | 2      | 80-8101810-02                | 1    | Panel                            |
|             | 3      | 80-8101930                   | 1    | Case                             |
|             | 4      | 80-8104070                   | 2    | Filter                           |
|             | 8      | 80-8101714-04                | 1    | Seal                             |
|             | 9      | 80-8101717                   | 1    | Bracket                          |
|             | 10     | 80-8101811                   | 1    | Lining                           |
|             | 11     | 80-8101941                   | 1    | Elbow                            |
|             | 12     | 80-8101941-01                | 1    | Elbow                            |
|             | 14     | 1522-8101012-03              | 1    | Hose                             |
|             | 15     | 3022-8101012                 | 2    | Pipe                             |
|             | 16     | A30.04.017-01                | 2    | Cap                              |
|             | 17     | 8101.001                     | 1    | Hose                             |
|             | 18     | 8101.002                     | 1    | Hose                             |
|             | 19     | M8-6gx20.88.35.019           | 2    | Bolt GOST 7796-70                |
|             | 20     | M8-6gx35.88.35.019           | 2    | Bolt GOST 7796-70                |
|             | 21     | M6-6gx16.88.35.019           | 10   | Bolt GOST 7798-70                |
|             | 22     | M6-6gx20.88.35.019           | 2    | Bolt GOST 7798-70                |
|             | 23     | B.M5-6gx10.58.019            | 2    | Screw GOST 17473-80              |
|             | 24     | M5-6H.6.019                  | 2    | Nut GOST 5915-70                 |
|             | 25     | M6-6H.6.019                  | 6    | Nut GOST 5915-70                 |
|             | 26     | M8-6H.6.019                  | 4    | Nut GOST 5915-70                 |
|             | 27     | C 5.01.019                   | 2    | Washer GOST 11371-78             |
|             | 28     | C 6.01.019                   | 16   | Washer GOST 6958-78              |
|             | 29     | C 8.01.019                   | 2    | Washer GOST 6958-78              |
|             | 30     | 5T                           | 2    | Washer OST 37.001.115-75         |
|             | 31     | 6T                           | 12   | Washer OST 37.001.115-75         |
|             | 32     | 8T                           | 6    | Washer OST 37.001.115-75         |
|             | 34     | 586415                       | 1    | Fan switch 0682164               |
|             | 35     | 586404                       | 1    | Climate control block U003CF041E |
|             | 36     | ПО 11                        | 1    | Cock TU RB 03973223.008-2000     |
|             | 37     |                              | 2    | Handle 068407/0                  |
|             | 38     |                              | 1    | Instruction plate 067060/1       |
|             | 39     |                              | 1    | Thermostat 068011/1              |
|             | 42     | 5000.03                      | 4    | Clamp with worm thread 20-32     |



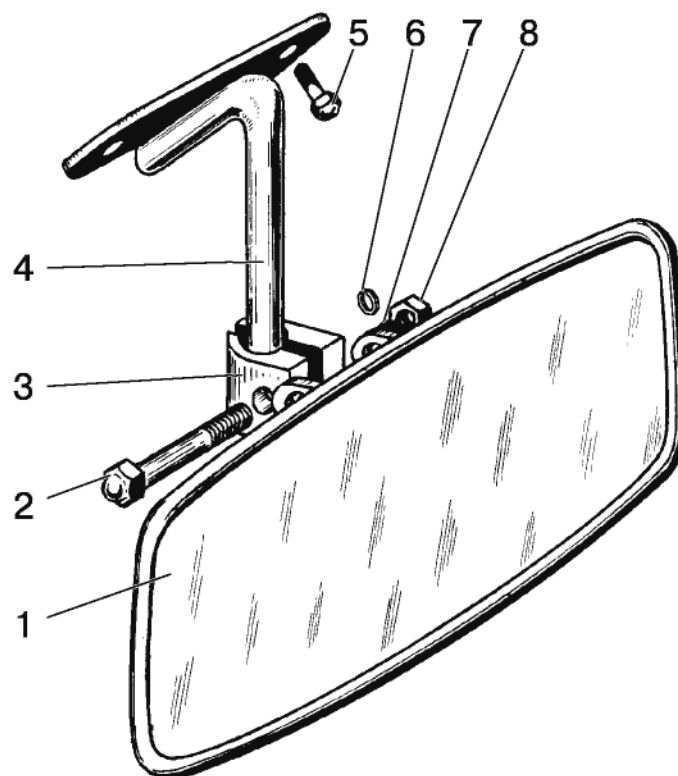


Fig. 82.1. Inside rear-view mirror

**Group 82. Cabin accessories**  
**Subgroup 8201. Inside rear-view mirror**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                             |
|-------------|--------|------------------------------|------|----------------------------------|
| <b>82.1</b> |        | 80-8201090                   | 1    | Inside mirror installation (1-7) |
|             | 1      | 80-8201035                   | 1    | Inside rear-view mirror          |
|             | 2      | M8x30                        | 1    | Bolt                             |
|             | 3      | A30.04.071                   | 1    | Clamp                            |
|             | 4      | 80П-8201025                  | 1    | Bracket                          |
|             | 5      | M6x12                        | 2    | Screw                            |
|             | 6      | ШП 8                         | 1    | Washer                           |
|             | 7      | ШЧ 8                         | 1    | Washer                           |
|             | 8      | M8                           | 1    | Nut                              |

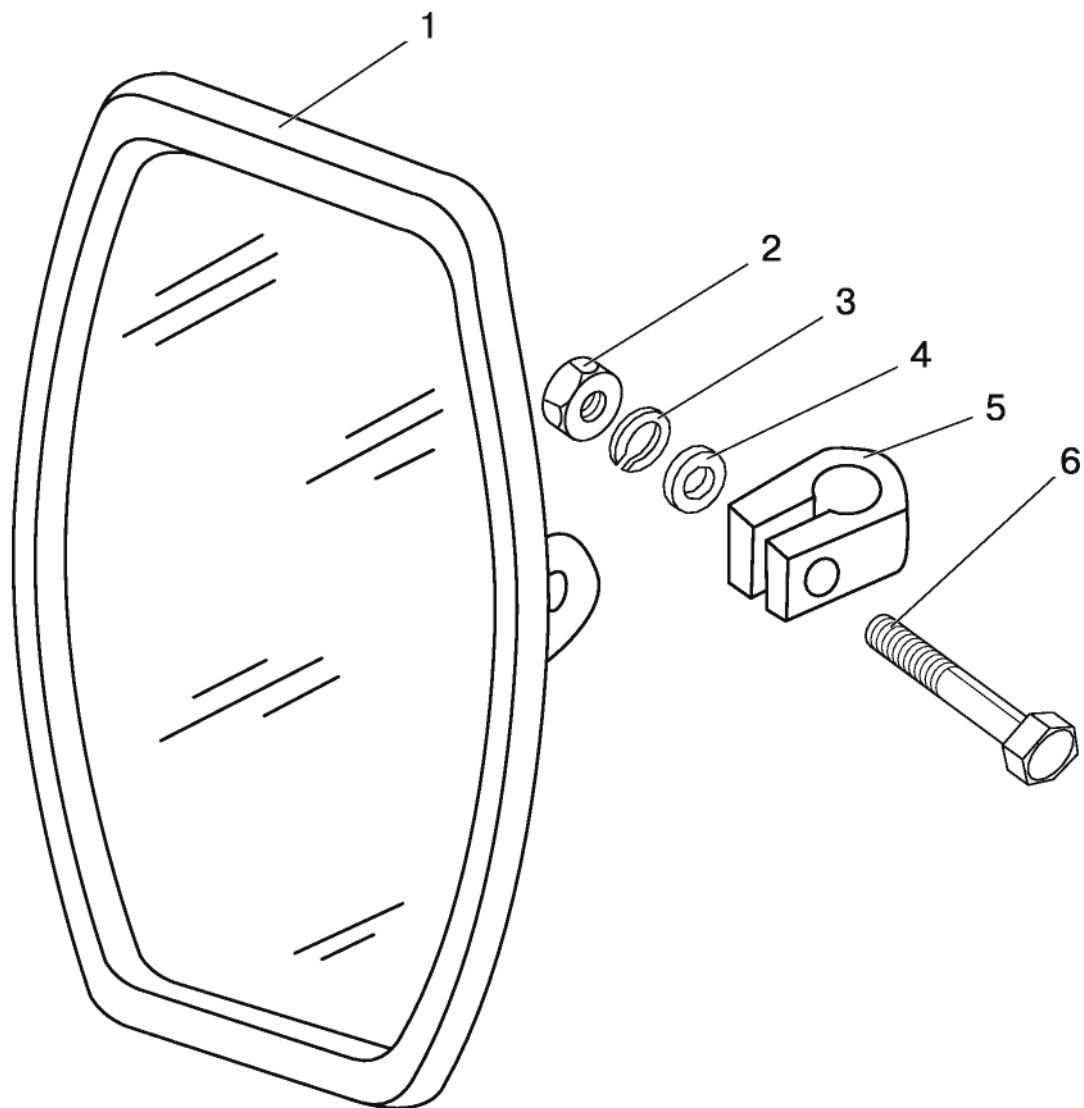


Fig. 82.2. Side rear-view mirror

**Group 82. Cabin accessories**  
**Subgroup 8201. Side rear-view mirror**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                  |
|-------------|--------|------------------------------|------|-----------------------|
| <b>82.2</b> |        | 80-8201050                   | 1    | Mirror (1-6)          |
|             | 1      | 80-8201055                   | 2    | Side rear-view mirror |
|             | 2      | M8                           | 2    | Nut                   |
|             | 3      | ШП 8                         | 2    | Washer                |
|             | 4      | ШЧ 8                         | 2    | Washer                |
|             | 5      | A30.04.051                   | 2    | Clamp                 |
|             | 6      | M8x40                        | 2    | Bolt                  |

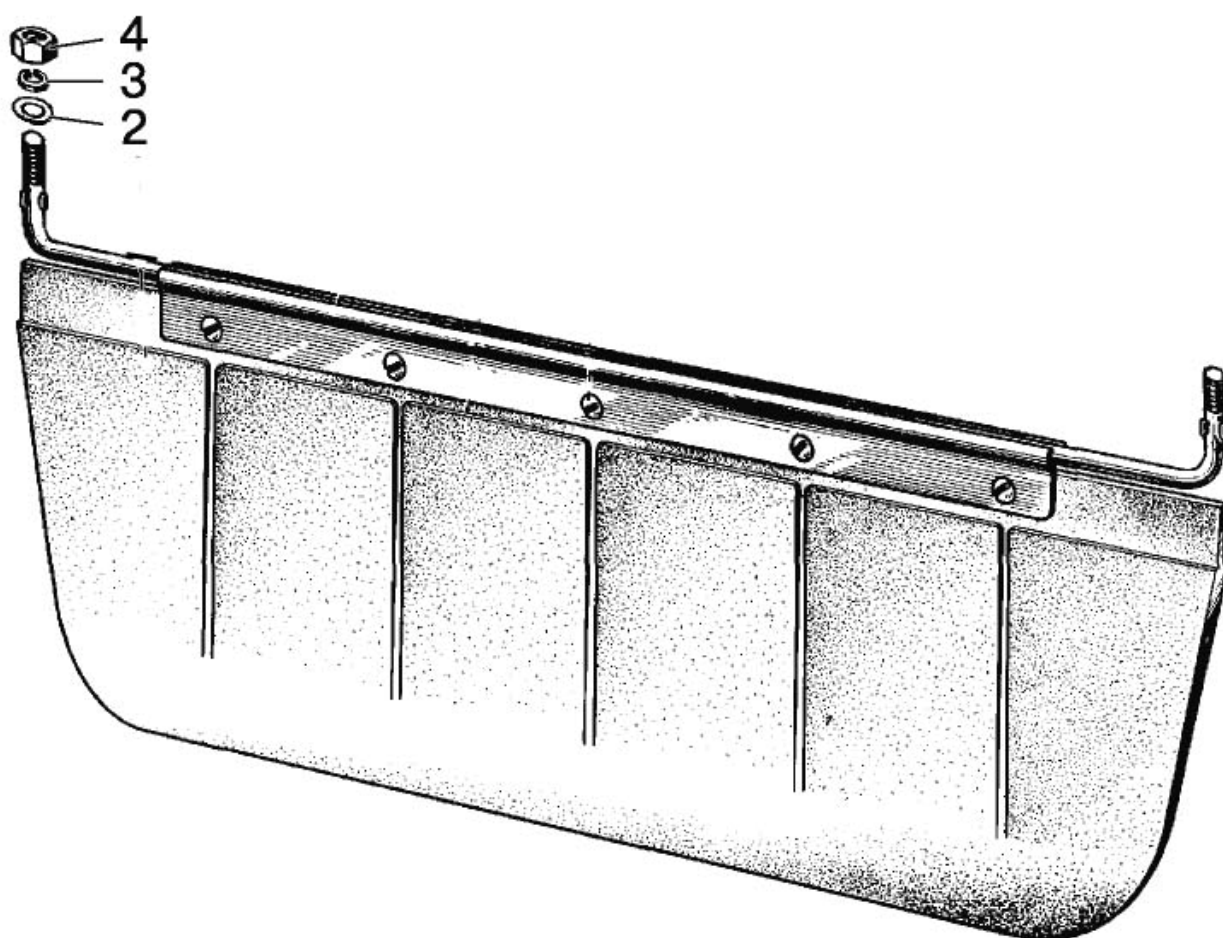


Fig. 82.3. Sun visor

**Group 82. Cabin accessories**  
**Subgroup 8204. Sun visor**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name            |
|-------------|--------|------------------------------|------|-----------------|
| <b>82.3</b> |        | 80П-8204010                  | 1    | Sun visor (2-4) |
|             | 2      | ШЧ 6                         | 2    | Washer          |
|             | 3      | ШП 6                         | 2    | Washer          |
|             | 4      | M6                           | 2    | Nut             |

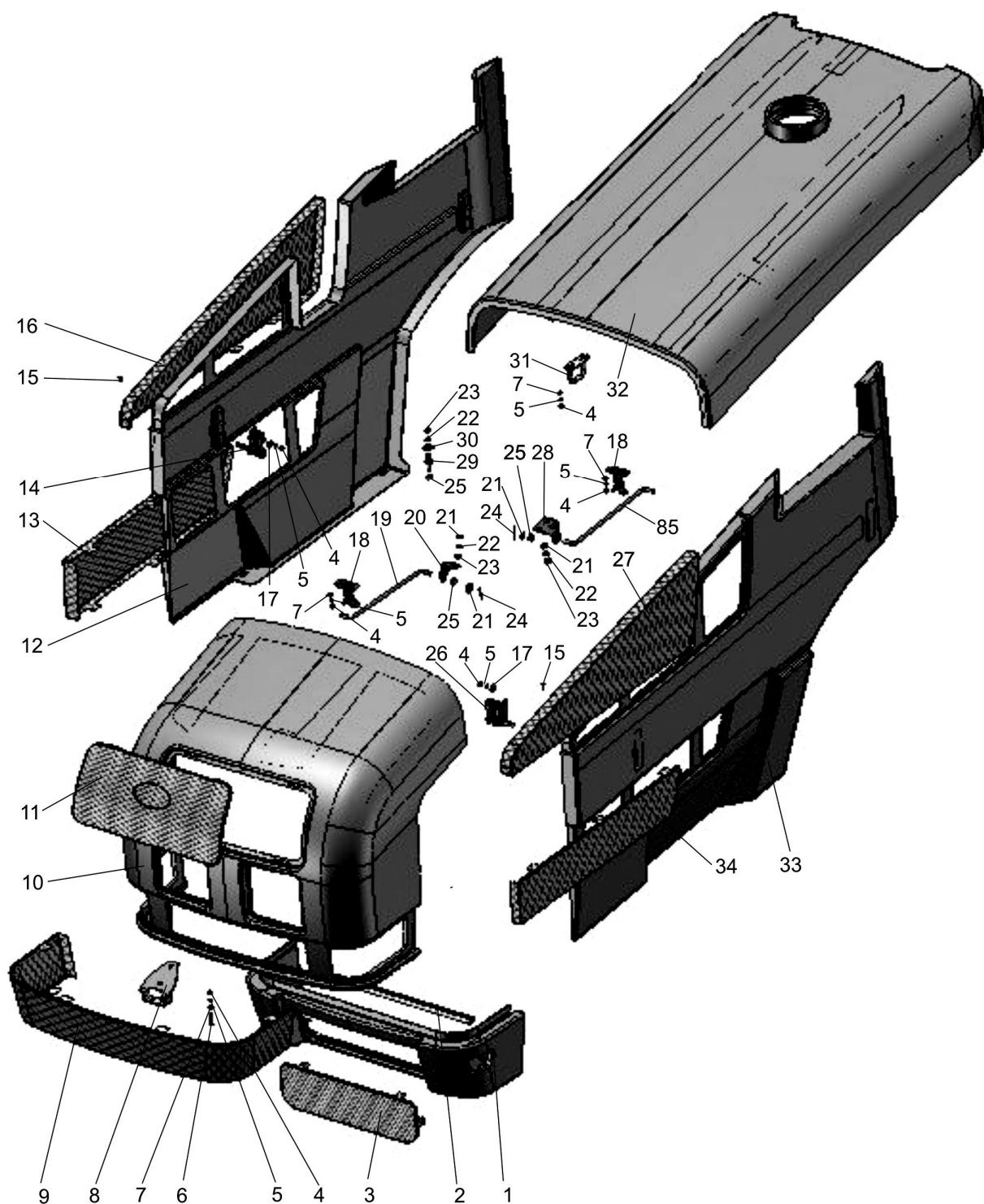


Fig. 84.1 Facing

**Group 84. Fin assembly  
Subgroup 8400. Facing**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                     |
|-------------|--------|------------------------------|------|--------------------------|
| <b>84.1</b> | 1      | TA1222-8400025               | 1    | Apron                    |
|             | 2      | A 37.08.045                  | 1    | Seal                     |
|             | 3      | 923-8401088                  | 1    | Grill                    |
|             | 4      | M6-6H.6.019                  | 18   | Nut GOST 5915-70         |
|             | 5      | 6T                           | 38   | Washer OST 37.001.115-75 |
|             | 6      | B.M6-6gx40.58.019            | 2    | Screw GOST 17475-86      |
|             | 7      | C6.01.019                    | 12   | Washer GOST 11371-78     |
|             | 8      | 1523-8402420                 | 1    | Joke                     |
|             | 9      | 1523-8401087                 | 1    | Grill                    |
|             | 10     | TA1222-8400015               | 1    | Mask                     |
|             | 11     | 950.3-8401090                | 1    | Grill                    |
|             | 12     | TA1222-8402320               | 1    | Side member              |
|             | 13     | 1523-8402318                 | 1    | Grill                    |
|             | 14     | 923-8402410-01               | 2    | Lock                     |
|             | 15     | WFS-4213                     | 6    | Self-tapping screw       |
|             | 16     | 1523.4-8402322               | 1    | Grill                    |
|             | 17     | C6.01.019                    | 27   | Washer GOST 6958-78      |
|             | 18     | 950.3-8400050                | 1    | Clamp                    |
|             | 19     | 90-8400070-01                | 1    | Rod                      |
|             | 20     | 950.3-8400101                | 1    | Bracket                  |
|             | 21     | C8.01.019                    | 18   | Washer GOST 11371-78     |
|             | 22     | 8T                           | 54   | Washer OST 37.001.115-75 |
|             | 23     | M8-6H.6.019                  | 22   | Nut GOST 5915-70         |
|             | 24     | 3.2x25.019                   | 8    | Forelock GOST 397-79     |
|             | 25     | 549A-1305044                 | 6    | Ring                     |
|             | 26     | 923-8402410                  | 2    | Lock                     |
|             | 27     | 1523-8402319                 | 1    | Grill                    |
|             | 28     | 950.3-8400102                | 1    | Bracket                  |
|             | 29     | 923-8400011                  | 4    | Detent                   |
|             | 30     | C8.01.019                    | 36   | Washer GOST 6958-78      |
|             | 31     | 1221-8402420                 | 1    | Joke                     |
|             | 32     | TA1222-8402020               | 1    | Hood                     |
|             | 33     | TA1222-8402310               | 1    | Side member              |
|             | 34     | 950.3-8402318                | 1    | Grill                    |
|             | 35     | 1523-8402030                 | 1    | Frame                    |
|             | 36     | 1523-8402041                 | 2    | Bracket                  |
|             | 37     | 822-8400080-03               | 2    | Control wire             |
|             | 38     | 1523-8402039                 | 2    | Bracket                  |
|             | 39     | C12.01.019                   | 1    | Washer GOST 11371-78     |
|             | 40     | M12x1.25-6H.6.019            | 2    | Nut GOST 5915-70         |
|             | 41     | B.M5-6gx12.58.019            | 4    | Screw GOST 17473-80      |
|             | 42     | 70-4803023                   | 2    | Coupling                 |
|             | 43     | 10 OT                        | 4    | Washer OST 37.001.115-75 |
|             | 44     | M10-6gx30.88.35.019          | 4    | Bolt GOST 7796-70        |
|             | 45     | 70-3401093                   | 10   | Lever tip                |
|             | 46     | 923-8400033                  | 6    | Stem                     |
|             | 47     | M10-6H.6.019                 | 10   | Nut GOST 5915-70         |
|             | 48     | 920-8400140                  | 1    | Support                  |



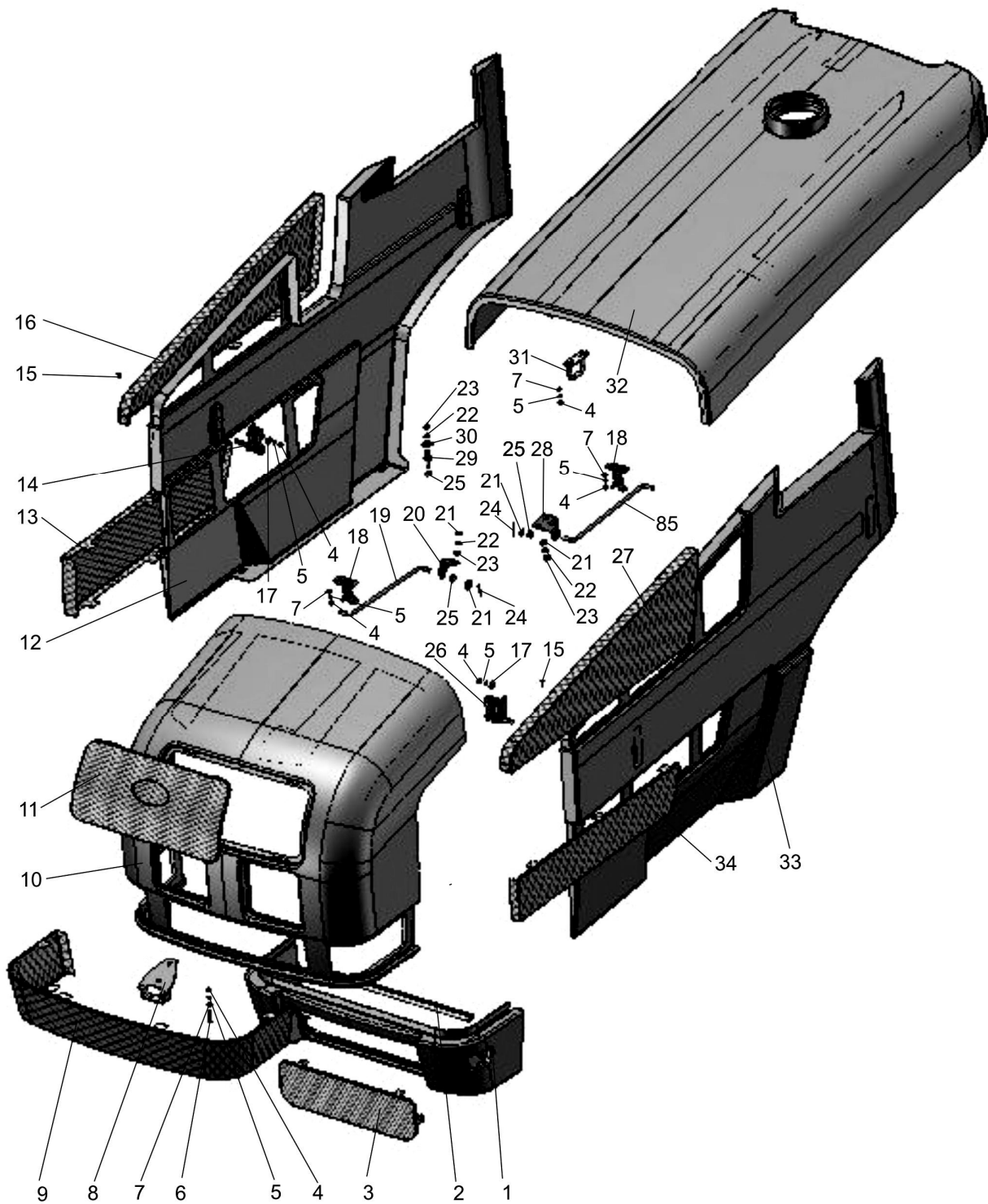


Fig. 84.1 Facing

**Group 84. Fin assembly  
Subgroup 8400. Facing**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                |
|-------------|--------|------------------------------|------|---------------------|
| <b>84.1</b> | 49     | 80-8402410                   | 2    | Lock                |
|             | 50     | M6-6gx16.88.35.019           | 12   | Bolt GOST 7798-70   |
|             | 51     | 1523-8402060                 | 1    | Arc                 |
|             | 52     | M8-6gx20.88.35.019           | 22   | Bolt GOST 7796-70   |
|             | 53     | 1523-8402085                 | 2    | Bracket             |
|             | 54     | M6-6gx14.88.35.019           | 4    | Bolt GOST 7798-70   |
|             | 55     | 1321-8402095-B               | 2    | Detent              |
|             | 56     | M6-6gx20.88.35.019           | 4    | Bolt GOST 7798-70   |
|             | 57     | 923-8400060                  | 1    | Bracket             |
|             | 58     | 1523-8400170                 | 1    | Support             |
|             | 59     | 920-8400140-01               | 1    | Support             |
|             | 60     | 1523.4-8400086               | 1    | Stabilizer          |
|             | 61     | 1523.4-8400088               | 2    | Plate               |
|             | 62     | M8-6gx16.88.35.019           | 4    | Bolt GOST 7796-70   |
|             | 63     | M8-6gx30.88.35.019           | 4    | Bolt GOST 7796-70   |
|             | 64     | 21054                        | 1    | Air hoist           |
|             | 65     | 80-6707096                   | 1    | Axis                |
|             | 66     | 923-8400045                  | 4    | Hinge               |
|             | 67     | 923-8400040                  | 2    | Support             |
|             | 68     | 923-8400031                  | 4    | Axis                |
|             | 69     | 1523.4-8400087               | 1    | Stabilizer          |
|             | 70     | 923-8400140-01               | 1    | Support             |
|             | 71     | 923-8402095-B                | 2    | Detent              |
|             | 72     | M8-6gx50.88.35.019           | 4    | Bolt GOST 7795-70   |
|             | 73     | 1523.4-8402070               | 1    | Rack                |
|             | 74     | 923-8400033-01               | 2    | Stem                |
|             | 75     | M10-3p/6gx45.66.019          | 2    | Stud GOST 22034-76  |
|             | 76     | 1523-8402110                 | 1    | Plate               |
|             | 77     | M6-6gx45.88.35.019           | 2    | Bolt GOST 7798-70   |
|             | 78     | 80-6708225                   | 1    | Bracket             |
|             | 79     | 90-8400012-B                 | 1    | Bracket             |
|             | 80     | 1523.4-8402090               | 1    | Arc                 |
|             | 81     | 2022Д-1001207-04             | 2    | Bolt                |
|             | 82     | 1523.4-8402101               | 1    | Screen              |
|             | 83     | 1523-8402082-01              | 1    | Shell               |
|             | 84     | C10.01.019                   | 4    | Washer GOST 6958-78 |
|             | 85     | 90-8400070-06                | 1    | Rod                 |
|             | 86     | 1523.4-8400140               | 1    | Support             |

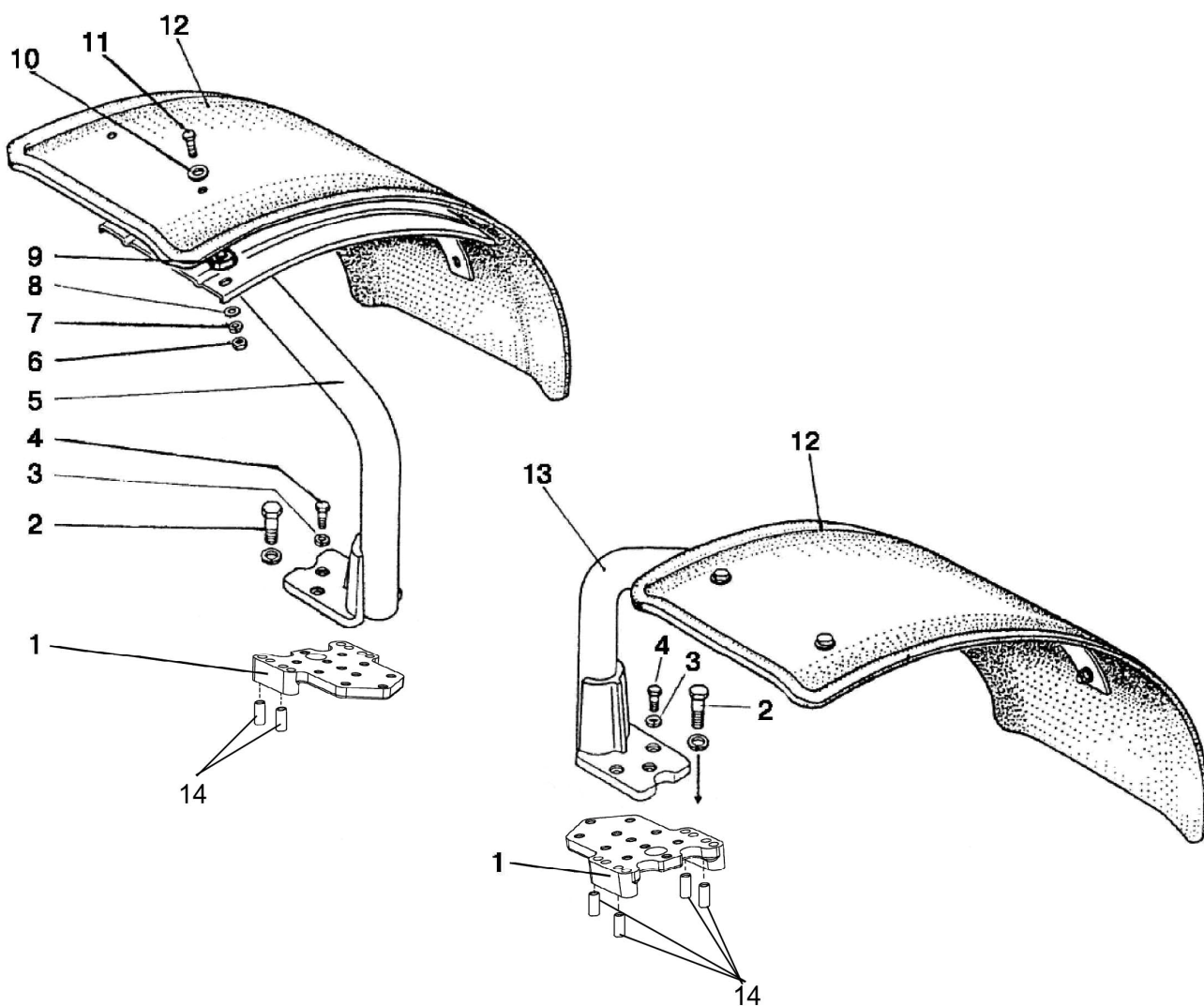


Fig. 84.2 Front wings

**Group 84. Fin assembly  
Subgroup 8403. Front wings**

| Fig.No      | Pos.No | Assembly unit or part number               | Q-ty   | Name           |
|-------------|--------|--------------------------------------------|--------|----------------|
| <b>84.2</b> | 1      | 822-8403011-Б                              | 2      | Base           |
|             | 2      | M12x85                                     | 8      | Bolt           |
|             | 3      | ШП12                                       | 14     | Washer         |
|             | 4      | M12X30                                     | 6      | Bolt           |
|             | 5      | 2022-8403015-01                            | 1      | Rack           |
|             | 6      | M10                                        | 10     | Nut            |
|             | 7      | ШП10                                       | 10     | Washer         |
|             | 8      | ШЧ10                                       | 10     | Washer d=21 mm |
|             | 9      | 80-4616017                                 | 10     | Roller         |
|             | 10     | ШЧ 10                                      | 10     | Washer d=30 mm |
|             | 11     | M 10x25                                    | 10     | Bolt           |
|             | 12     | 1221-8403014-Б-02 or<br>1221-8403014-Б1-02 | 2<br>2 | Wing<br>Wing   |
|             | 13     | 2022-8403015                               | 1      | Rack           |
|             | 14     | 2022-8403012                               | 8      | Bushing        |

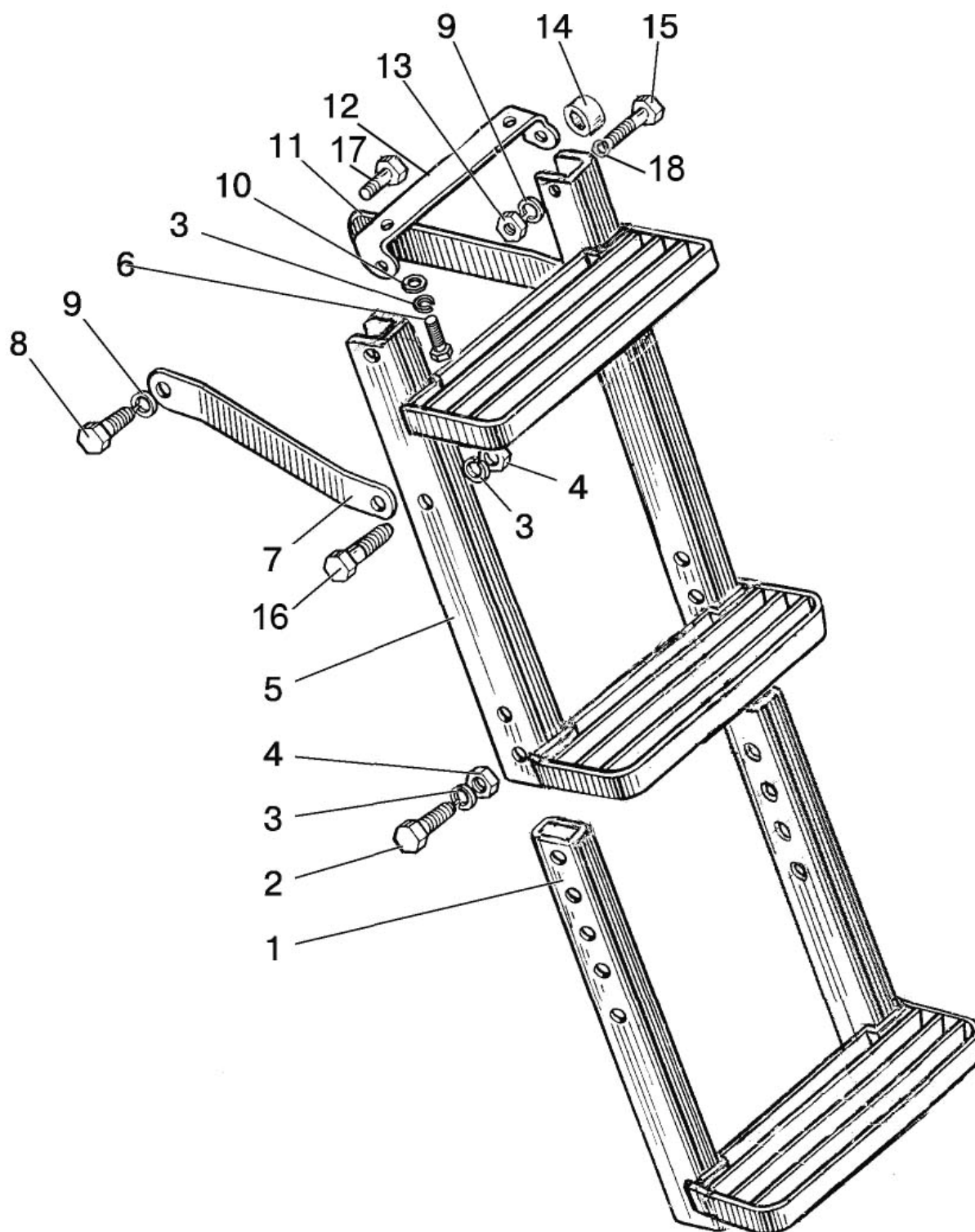


Fig. 84.3 Foot step

**Group 84. Fin assembly.  
Subgroup 8405. Foot step**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                             |
|-------------|--------|------------------------------|------|--------------------------------------------------|
| <b>84.3</b> | 1      | 80-8405020-A2                | 1    | Foot step                                        |
|             | 2      | M10x50                       | 4    | Bolt                                             |
|             | 3      | 10 OT                        | 8    | Washer                                           |
|             | 4      | M10                          | 6    | Nut                                              |
|             | 5      | 80-8405010-A3                | 1    | Foot step                                        |
|             | 6      | M10x25                       | 2    | Bolt                                             |
|             | 7      | 80-8405031-B                 | 1    | Bracket                                          |
|             | 8      | M12x25                       | 1    | Bolt                                             |
|             | 9      | 12 OT                        | 4    | Washer                                           |
|             | 10     | C 10.01.019                  | 8    | Washer                                           |
|             | 11     | 80-8405032-B                 | 1    | Bracket                                          |
|             | 12     | 80-8405030-B                 | 1    | Bracket                                          |
|             |        | 80-8405030-B-01              | 1    | Bracket<br>(for the foot step on the right side) |
|             | 13     | M12                          | 3    | Nut                                              |
|             | 14     | 923-6200111                  | 2    | Bushing                                          |
|             | 15     | M12x60                       | 2    | Bolt                                             |
|             | 16     | M10x30                       | 2    | Bolt                                             |
|             | 17     | M12x30                       | 1    | Bolt                                             |
|             | 18     | C12.01.019                   | 2    | Washer                                           |

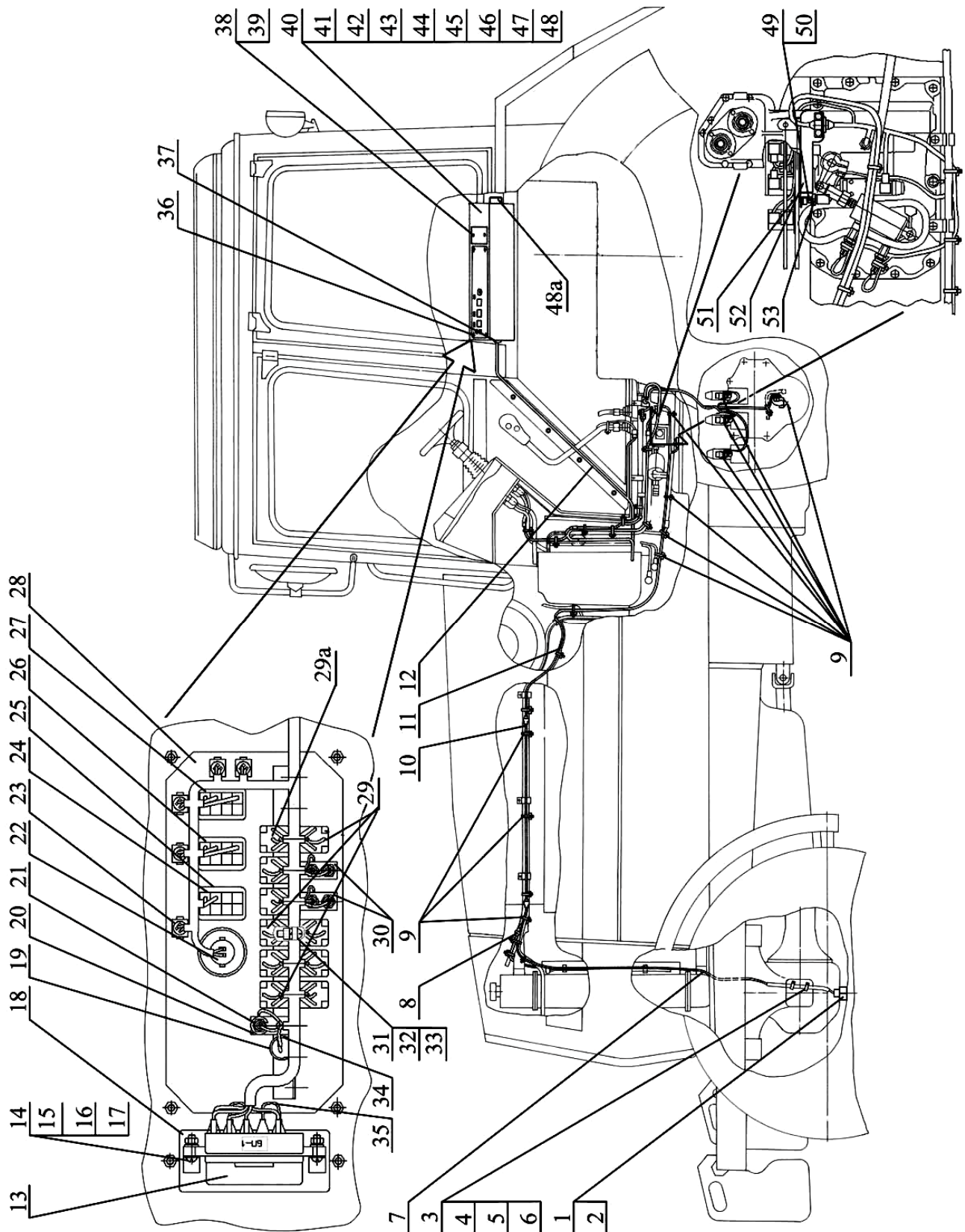


Fig. 87.1. Control of FDA, rear axle DL, rear PTO shaft and reduction unit (1221-8700250-Д)

**Group 87. Control of FDA, DL, PTO shaft, lift linkage and reduction unit  
(electrics)**

**Subgroup 8700. Control of FDA, rear axle DL, rear PTO shaft and reduction unit (1221-8700250-Д)**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty  | Name                                                                                                       |
|-------------|--------|------------------------------|-------|------------------------------------------------------------------------------------------------------------|
| <b>87.1</b> | 1      |                              | 1     | Switch BK 12-51<br>TU RB 37334210.004-97                                                                   |
|             | 2      | 50-1702048                   | 10max | Shim                                                                                                       |
|             | 3      | 1222-8700021                 | 1     | Pipe                                                                                                       |
|             | 4      | 1221-8700022                 | 2     | Clamp                                                                                                      |
|             | 5      |                              | 2     | Bolt M8-6gx16.88.35.019 GOST 7796-70                                                                       |
|             | 6      |                              | 2     | Washer 8T OST 37.001.115-75                                                                                |
|             | 7      | 1221-3724840-B               | 1     | Harness                                                                                                    |
|             | 8      |                              | 1     | Female socket 602602<br>OST 37.003.032-88                                                                  |
|             | 9      | 80-3723045                   | 25    | Collar                                                                                                     |
|             | 10     | 1222-3724850                 | 1     | Harness                                                                                                    |
|             | 11     | 1221-3724970-Д               | 1     | Harness                                                                                                    |
|             | 12     | 1221-3724960                 | 1     | Harness                                                                                                    |
|             | 13     |                              | 1     | Fuse block БП-1<br>TU RB 03428193.095-97                                                                   |
|             | 14     |                              | 2     | Screw B.M6-6gx20.58.019 GOST 17473-80                                                                      |
|             | 15     |                              | 2     | Nut M6-6H.6.019 GOST 5915-70                                                                               |
|             | 16     |                              | 2     | Washer C6.01.019 GOST 6958-78                                                                              |
|             | 17     |                              | 2     | Washer 6T OST 37.001.115-75                                                                                |
|             | 18     | 1221-8700275                 | 1     | Shield                                                                                                     |
|             | 19     | ПП-32-01                     | 1     | Seal                                                                                                       |
|             | 20     | 1522-8700221-A               | 1     | Bracket                                                                                                    |
|             | 21     | 1522-8700222                 | 1     | Bushing                                                                                                    |
|             | 22     |                              | 1     | Switch BK 12-1 ЦИКС 642241.001 TU                                                                          |
|             | 23     |                              | 5     | Warning light 12.3803-31 TU RB<br>300228919.037-2002 or<br>Warning light 2202.3803-34 TU<br>37.003.1109-82 |
|             | 24     |                              | 1     | Switch П 147M-01.17 TU RB<br>14795799.001-97 or<br>Switch П 147-01.17<br>TU 37.003.701-75                  |
|             | 25     | 80-3801021                   | 3     | Switch socket                                                                                              |
|             | 26     |                              | 1     | Switch П 150M-06.14<br>TU RB 14795799.001-97 or<br>Switch П 150-06.17<br>TU 37.003.701-75                  |
|             | 27     |                              | 1     | Switch П 147M-06.49<br>TU RB 1495799.001-97 or<br>Switch П 147-06.17<br>TU 37.003.701-75                   |
|             | 28     | 1221-8700265                 | 1     | Panel                                                                                                      |
|             | 29     | 3747.40                      | 3     | Cut-out relay 20A                                                                                          |
|             | 29a    | 3747.50                      | 7     | Cut-in relay 30A                                                                                           |
|             | 30     | 1522-8700221                 | 2     | Bracket                                                                                                    |
|             | 31     |                              | 7     | Screw B.M6-6gx12.58.019 GOST 17473-80                                                                      |
|             | 32     |                              | 7     | Nut M6-6H.6.019 GOST 5915-70                                                                               |
|             | 33     |                              | 7     | Washer 6T OST 37.001.115-75                                                                                |
|             | 34     | 1321-8700019                 | 1     | Clamp                                                                                                      |



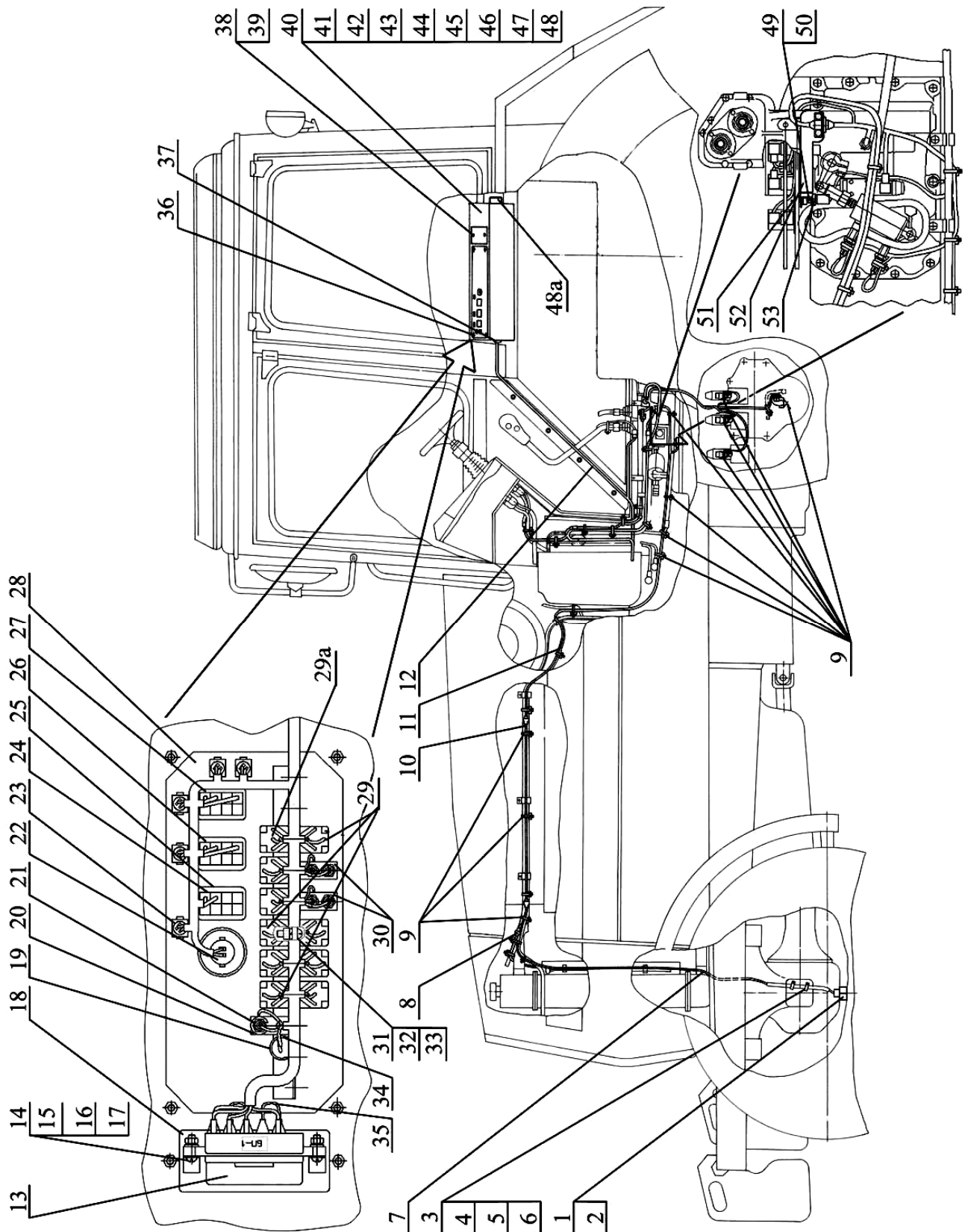


Fig. 87.1. Control of FDA, rear axle DL, rear PTO shaft and reduction unit (1221-8700250-Д)

**Group 87. Control of FDA, DL, PTO shaft, lift linkage and reduction unit  
(electrics)**

**Subgroup 8700. Control of FDA, rear axle DL, rear PTO shaft and reduction unit (1221-8700250-Д)**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                              |
|-------------|--------|------------------------------|------|---------------------------------------------------|
| <b>87.1</b> | 35     | 80-3724410-06                | 2    | Cable                                             |
|             | 36     |                              | 4    | Screw B.M6-6gx20.58.019 GOST 17474-80             |
|             | 37     | 50-4607064                   | 1    | Bushing                                           |
|             | 38     | 80-3805065                   | 2    | Screw                                             |
|             | 39     |                              | 2    | Ring 006-010-25-1-4<br>GOST 18829-73/GOST 9833-73 |
|             | 40     | 1221-8700290                 | 1    | Control panel                                     |
|             | 41     |                              | 2    | Bolt M6-6gx16.88.35.019 GOST 7798-70              |
|             | 42     |                              | 2    | Bolt M6-6gx30.88.35.019 GOST 7798-70              |
|             | 43     |                              | 2    | Nut M6-6H.6.019 GOST 5915-70                      |
|             | 44     |                              | 4    | Washer C6.01.019 GOST 6958-78                     |
|             | 45     |                              | 2    | Washer C6.01.019 GOST 11371-78                    |
|             | 46     |                              | 4    | Washer 6T OST 37.001.115-75                       |
|             | 47     | A30.04.017                   | 2    | Cap                                               |
|             | 48     |                              | 2    | Rivet nut M6x16<br>TU RB 161.01-2008              |
|             | 48a    | 70-3723042-02                | 1    | Bushing                                           |
|             | 49     |                              | 1    | Nut M14x1,5-6H.6.019 GOST 5915-70                 |
|             | 50     |                              | 1    | Washer 14 OT OST 37.001.115-75                    |
|             | 51     | 1221-8700286                 | 1    | Lever                                             |
|             | 52     | 1221-8700280                 | 1    | Bracket                                           |
|             | 53     | BK 12-2                      | 1    | Switch BK 12-2<br>TU RB 07512465.017-94           |

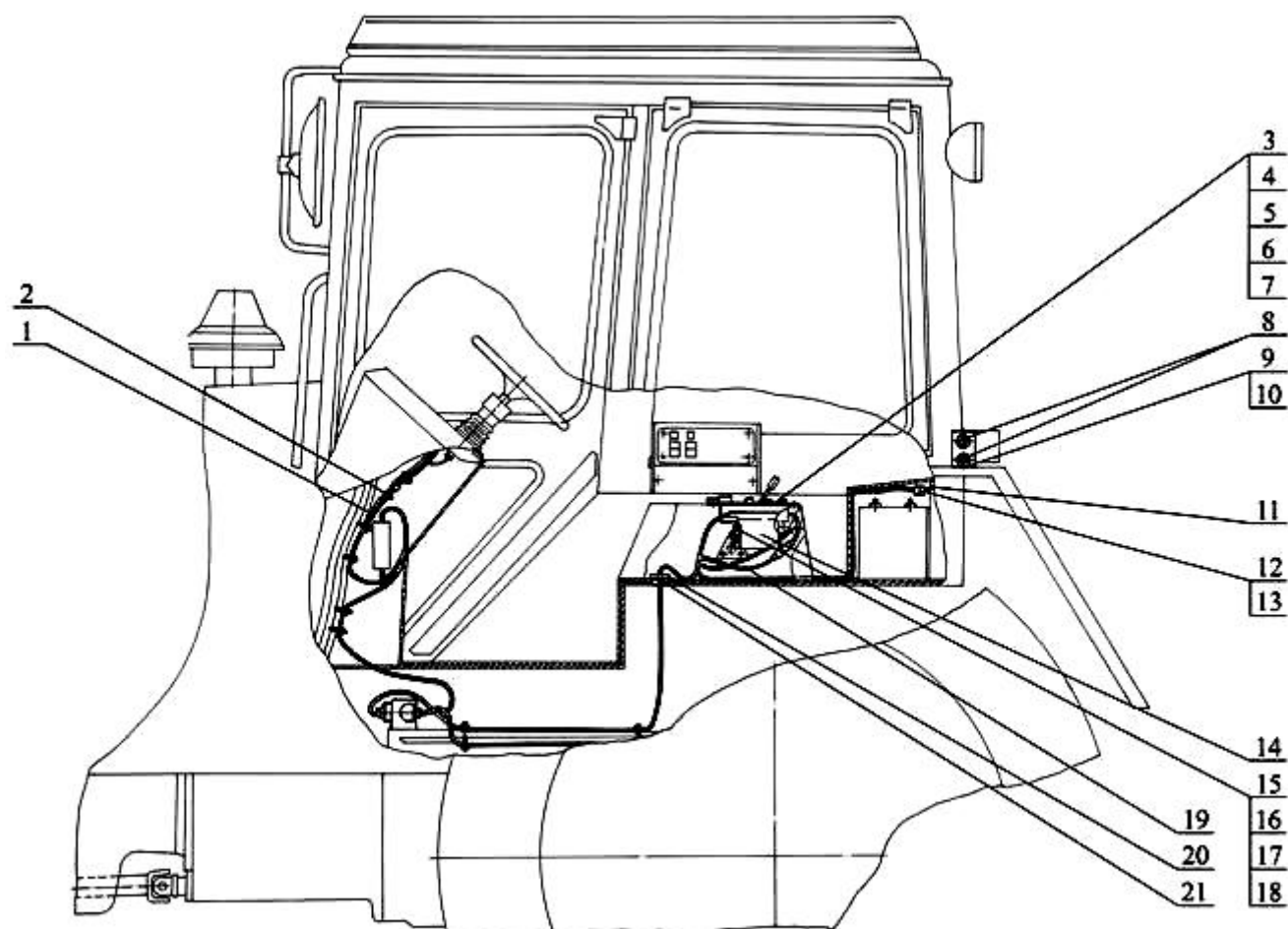


Fig. 87.2. Rear lift linkage control

**Group 87. Control of FDA, DL, PTO shaft, lift linkage and reduction unit  
(electrics)**

**Subgroup 8700. Rear lift linkage control**

| Fig.No      | Pos.No | Assembly unit or part number | Q-ty | Name                                      |
|-------------|--------|------------------------------|------|-------------------------------------------|
| <b>87.2</b> | 1      | 1221-3724895                 | 1    | Harness                                   |
|             | 2      | 80-3723045-01                | 14   | Collar                                    |
|             | 3      |                              | 1    | Control panel 0538201611                  |
|             | 4      |                              | 4    | Screw BM4-6gx10.58.019 GOST 17475-80      |
|             | 5      |                              | 4    | Nut M4 -6H.6.019 GOST 5915-70             |
|             | 6      |                              | 4    | Washer C4 .01.019 GOST 6958-78            |
|             | 7      |                              | 4    | Washer 4 OST 37.001.115-75                |
|             | 8      |                              | 4    | Button switch 145000AB                    |
|             | 9      | 1221-8700620                 | 1    | Bracket                                   |
|             | 10     | 1221-8700620-01              | 1    | Bracket                                   |
|             | 11     | 1221-3724885                 | 2    | Harness                                   |
|             | 12     |                              | 2    | Female socket 602604<br>OST 37.003.032-88 |
|             | 13     |                              | 2    | Male socket 502604<br>OST 37.003.032-88   |
|             | 14     |                              | 1    | Electronics assembly R 917004743          |
|             | 15     |                              | 2    | Bolt M6-6gx16.88.35.019<br>GOST 7798-70   |
|             | 16     |                              | 2    | Nut M6-6H.6.019 GOST 5915-70              |
|             | 17     |                              | 2    | Washer 6T OST 37.001.115-75               |
|             | 18     | A 30.04.017                  | 2    | Cap                                       |
|             | 19     | 1221-3724890                 | 1    | Harness                                   |
|             | 20     | 80-6702402-B-04              | 1    | Plate                                     |
|             | 21     | 70-3723042-02                | 1    | Bushing                                   |

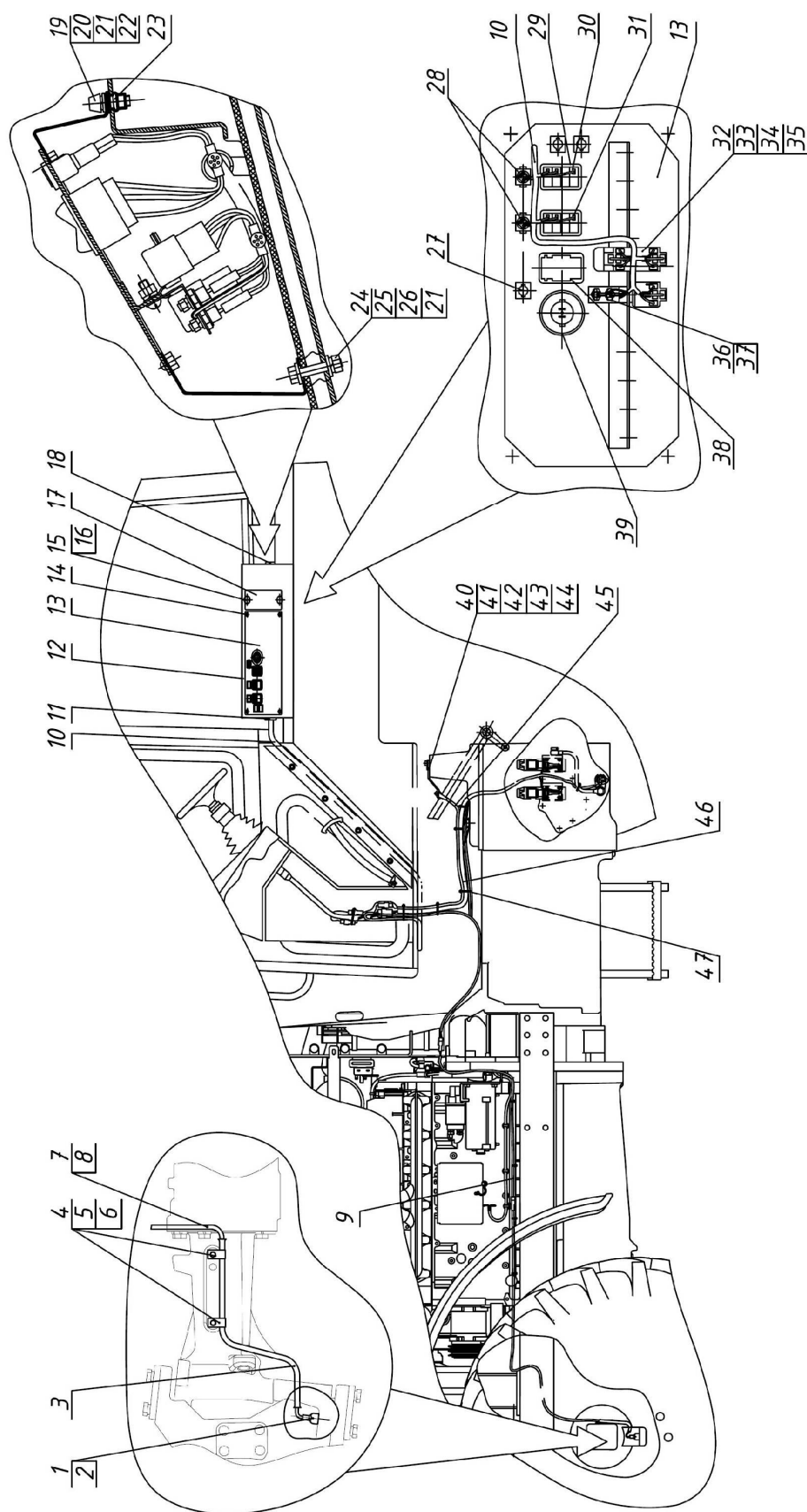


Fig.87.3 Control of DL and FDA

**Group 87.Control system**  
**Subgroup 8700. Control of DL and FDA**

| Fig.No      | Pos.No | Assembly unit or part number                 | Q-ty    | Name                  |
|-------------|--------|----------------------------------------------|---------|-----------------------|
| <b>87.3</b> |        | 1221.4-8700410                               |         | Control of DL and FDA |
|             | 1      | 50-1702048                                   | 10(max) | Shim                  |
|             | 2      | BK 12-51                                     | 1       | Switch                |
|             | 3      | 1222-8700021                                 | 1       | Pipe                  |
|             | 4      | 1221-8700022                                 | 2       | Clamp                 |
|             | 5      | M8-6gx16.88.35.019 GOST 7796-70              | 2       | Bolt                  |
|             | 6      | 8T OST 37.001.115-75                         | 2       | Washer                |
|             | 7      | 1221-3724840-B                               | 1       | Harness               |
|             | 8      | 602602 OST 37.003.032 - 88                   | 1       | Female socket         |
|             | 9      | 1025-3724850                                 | 1       | Harness               |
|             | 10     | 1221-3724860                                 | 1       | Harness               |
|             | 11     | 50-4607064                                   | 1       | Bushing               |
|             | 12     | 1022-8700290                                 | 1       | Control panel         |
|             | 13     | 1221-8700265                                 | 1       | Panel                 |
|             | 14     | B.M6-6gx20.58.019 GOST 17474-80              | 4       | Screw                 |
|             | 15     | 80-3805065                                   | 2       | Screw                 |
|             | 16     | 006-010-25-1-4<br>GOST 18829-73/GOST 9833-73 | 2       | Ring                  |
|             | 17     | 1221-8700275                                 | 1       | Shield                |
|             | 18     | 70-3723042-01                                | 1       | Bushing               |
|             | 19     | A30.04.017                                   | 2       | Cap                   |
|             | 20     | M6-6gx16.88.35.019 GOST 7798-70              | 2       | Bolt                  |
|             | 21     | 6T OST 37.001.115-75                         | 4       | Washer                |
|             | 22     | C6.01.019GOST 11371-78                       | 2       | Washer                |
|             | 23     | M6x16 TU RB 161.01-2008                      | 2       | Rivet nut             |
|             | 24     | M6-6gx30.88.35.019 GOST 7798-70              | 2       | Bolt                  |
|             | 25     | M6-6H.6.019 GOST 5915-70                     | 2       | Nut                   |
|             | 26     | C6.01.019GOST 6958-78                        | 4       | Washer                |
|             | 27     | 12.3803-41                                   | 3       | Warning light         |
|             | 28     | 12.3803-31 or<br>2202.3803-34                | 2       | Warning light         |
|             | 29     | 80-3801021                                   | 3       | Switch socket         |
|             | 30     | П 147М-06.49 or<br>П 147-06.17               | 1       | Switch                |
|             | 31     | П 150М-06.14 or<br>П 150-06.17               | 1       | Switch                |
|             | 32     |                                              | 3       | Cut-in relay 30A      |
|             | 33     | B.M6-6gx12.58.019 GOST 17473-80              | 2       | Screw                 |
|             | 34     | M6-6H.6.019 GOST 5915-70                     | 2       | Nut                   |
|             | 35     | 6T OST 37.001.115-75                         | 2       | Washer                |
|             | 36     | 1522-8700221                                 | 1       | Bracket               |
|             | 37     | 5T OST 37.001.115-75                         | 2       | Washer                |
|             | 38     | 80-3801327                                   | 1       | Blind plug            |
|             | 39     | BK 12-1                                      | 1       | Switch                |
|             | 40     | 1025-8700430                                 | 1       | Bracket               |
|             | 41     | BK 12-21                                     | 1       | Switch                |
|             | 42     | M14x1,5-6H.6.019 GOST 5915-70                | 1       | Nut                   |
|             | 43     | 14 OT OST 37.001.115-75                      | 1       | Washer                |
|             | 44     | 1221-8700286                                 | 1       | Lever                 |
|             | 45     | 1025-3724835-B                               | 1       | Harness               |
|             | 46     | 1221-3724865-Д                               | 1       | Harness               |
|             | 47     | 80-3723045-01                                | 16      | Collar                |

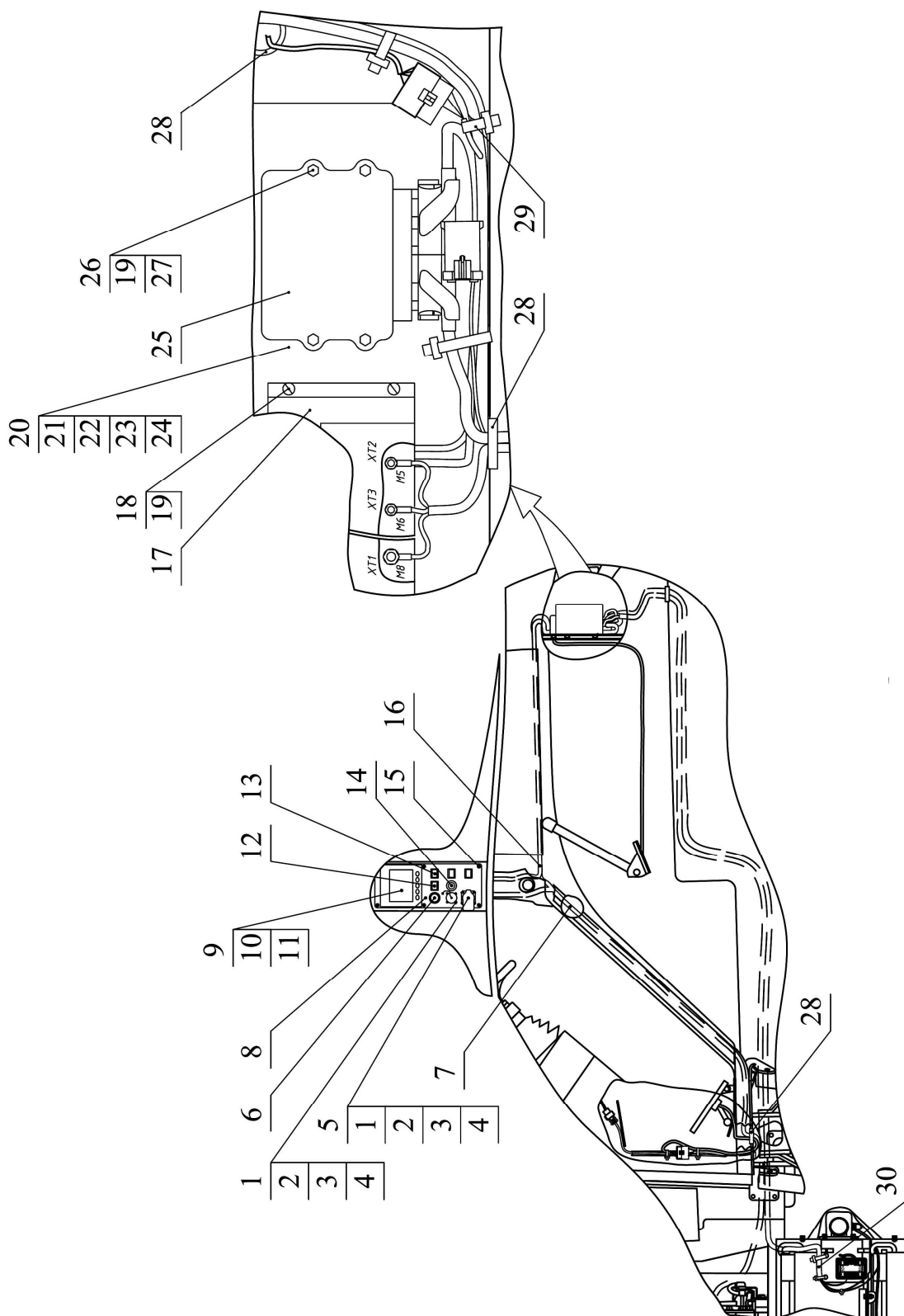


Fig. 87.4 DEUTZ engine control

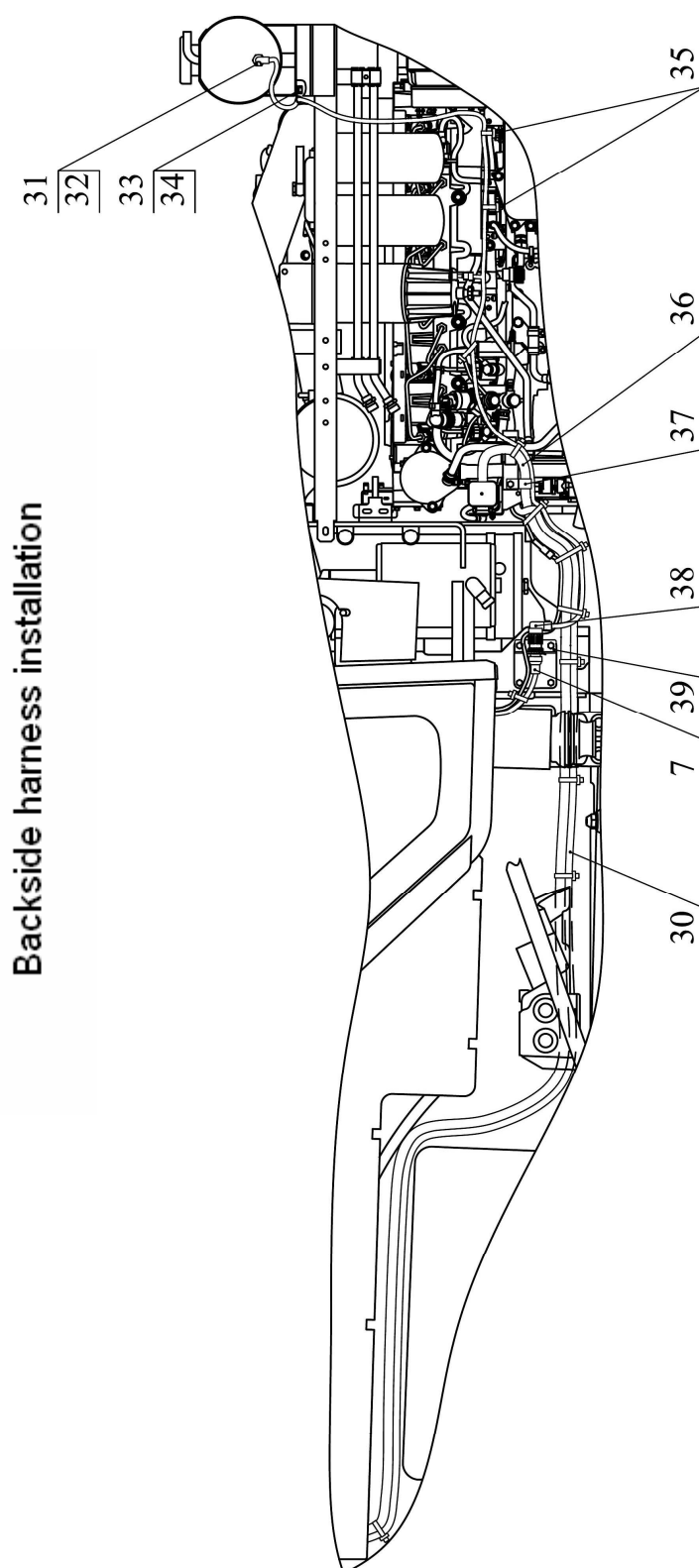


Fig.87.4a DEUTZ engine control



**Group 87.Control system**  
**Subgroup 8700. DEUTZ engine control**

| Fig.No                      | Pos.No | Assembly unit or part number | Q-ty | Name                                      |
|-----------------------------|--------|------------------------------|------|-------------------------------------------|
| <b>87.4</b><br><b>87.4a</b> |        | 1221.4-8700910-E             | 1    | Engine control                            |
|                             | 1      | BM3-6gx16.58.019             | 9    | Screw GOST 17473-80                       |
|                             | 2      | M3-6H.6.019                  | 9    | Nut GOST 5927-70                          |
|                             | 3      | C3.01.019                    | 9    | Washer GOST 11371-78                      |
|                             | 4      | 3T                           | 9    | Washer OST 37.001.115-75                  |
|                             | 5      | 25.038.100                   | 1    | Socket                                    |
|                             | 6      |                              | 1    | Cigar lighter 116.3725                    |
|                             | 7      | 1221.4-3724961-E             | 1    | Harness                                   |
|                             | 8      | 1221.4-8700916               | 1    | Panel                                     |
|                             | 9      |                              | 1    | Information display 0440-6060 (917012)*   |
|                             | 10     | BM4-6gx10.58.019             | 4    | Screw GOST 17473-80                       |
|                             | 11     |                              | 4    | Washer 4 OST 37.001.115-75                |
|                             | 12     |                              | 1    | Warning light 12.3803-31 or 2202.9803-34  |
|                             | 13     |                              | 3    | Warning light 12.3803-46                  |
|                             | 14     |                              | 1    | Switch BK 12-1                            |
|                             | 15     | BM4-6gx20.58.019             | 6    | Screw GOST 17474-80                       |
|                             | 16     | 1221.4-3724801               | 1    | Harness                                   |
|                             | 17     |                              | 1    | Series 1000 switching and protection unit |
|                             | 18     | BM6-6gx14.58.019             | 4    | Screw GOST 17473-80                       |
|                             | 19     | 6T                           | 8    | Washer OST 37.001.115-75                  |
|                             | 20     | 1221.4-8700930-B             | 1    | Bracket                                   |
|                             | 21     | M8-6gx16.88.35.019           | 5    | Bolt GOST 7796-70                         |
|                             | 22     | M8-6H.6.019                  | 6    | Nut GOST 5915-70                          |
|                             | 23     | C8.01.019                    | 5    | Washer GOST 6958-78                       |
|                             | 24     | 8T                           | 5    | Washer OST 37.001.115-75                  |
|                             | 25     | 0029 5613*                   | 1    | Control unit                              |
|                             | 26     | M6-6gx30.88.35.019           | 4    | Bolt GOST 7796-70                         |
|                             | 27     | C6.01.019                    | 4    | Washer GOST 11371-78                      |
|                             | 28     | 1221.4-8700913               | 3    | Ring                                      |
|                             | 29     | 80-3723045-01                | 18   | Collar                                    |
|                             | 30     | 1221.4-3724845               | 1    | Harness                                   |
|                             | 31     | 0118-1474*                   | 1    | Coolant level sensor                      |
|                             | 32     | 013-017-25-1-4               | 1    | Ring GOST 18829-73/ GOST 9833-73          |
|                             | 33     | 70-1115012-01                | 1    | Clamp                                     |
|                             | 34     | 70-3506027                   | 1    | Bushing                                   |
|                             | 35     | 80-3723045                   | 5    | Collar                                    |
|                             | 36     | 0421-5318*                   | 1    | Harness                                   |
|                             | 37     | 923-3723012                  | 1    | Clamp                                     |
|                             | 38     | 1221.4-3724965-E             | 1    | Harness                                   |
|                             | 39     | 1221.4-8700912               | 1    | Bracket                                   |

\* enclosed into Deutz engine package