
BELARUS

1221.5

1221.5-0000010 KDS

CATALOGUE OF PARTS AND ASSEMBLY UNITS

2013

BELARUS_____ ***1221.5***

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INTRODUCTION

The present catalogue contains the whole range of assembly units and parts for tractors "BELARUS-1221.5", equipped with engine D-260.2S3B. The engine is a 4-stroke piston six-cylinder inner combustion engine with in-line vertical arrangement of cylinders, with direct injection of diesel fuel and compression ignition, corresponding to environmental requirements of Stage 3B.

The catalogue is meant for organizations and firms that are concerned with tractor sales, operation and repair. It can be used in calculation and preparation of orders for spare parts and serves as a manual during tractor disassembling and assembling.

All changes related to tractor design development are represented in respective information sheets.

HOW TO USE THIS CATALOGUE

Catalogue includes tractor assembly units and parts.

Assembly units and parts 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). 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 "Rod" in the number of 4 pieces per 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 one tractor.

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

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 B, B1, B2, V, G, D, 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-B1-01 (1st cylinder pipe)" and "240-1104300-B1-02 (2nd cylinder pipe)" have different structural variations and are **not interchangeable**.

Some parts, taken from previous tractor models, have alphanumeric designations. For example, "D18-055-A-01 Seal ring".

APPLICATION

The tractor "BELARUS-1221.5" is intended for performance of various general – purpose agricultural operations with mounted, semi-mounted and trailed machines and implements, for loading-unloading works and transportation works.

The tractor "BELARUS-1221.5" is a general-purpose wheeled tractor of traction class 2 with the wheel formula 4X4.

Tractor framework – semi-frame.

Undercarriage: front and rear driving wheels, with pneumatic tyres of low pressure. Steering wheels are front wheels. The wheels can be twinned by means of spacers.

The tractor is equipped with 4-stroke piston six-cylinder inner combustion engine with in-line vertical arrangement of cylinders, with direct injection of diesel fuel and compression ignition, corresponding to environmental requirements of Stage 3B.

System of engine lubrication is combined, some parts are lubricated under pressure, some – by spattering. The lubrication system consists of an oil sump, oil pump, liquid-oil heat exchanger, oil filter and oil filter with paper filtering element.

The engine fuel supply system consists of the following parts:

- accumulator system of fuel supply Common RAIL, including a high-pressure fuel pump, injectors, fuel accumulator under high pressure, sensors of engine working environment condition (pressure and temperature of fuel and air), electromagnetic actuating mechanisms (fuel governor, electromagnetic injection valves), electronic unit of control and communication check circuits, low-pressure pipelines, high-pressure pipelines;

- fuel fine filters;

- fuel coarse filters.

System of engine start-up is electric starter. A means of start-up facilitation under low environmental temperatures are the heating plugs.

System of air delivery consists of a turbocharger, an air pipeline and a system of charged air cooling.

The turbocharger is executed as follows: radial centripetal turbine and centrifugal single-stage compressor with cantilever arrangement of wheels in relation to supports.

The system of air purification consists of a dry-type air cleaner with two paper filtering elements. Air ingress with an air-cleaner is performed through the monocyclone which provides preliminary inertial air cleaning at the expense of tangential inflow and centrifugal forces, arising at spiral air rotation in relation to the monocyclone housing axle discharging large-size dust particles.

Cooling system for charged air is of a radiator type. The CAC radiator is intended for cooling the air, charged into the inlet collector.

System of engine cooling is closed-type with coolant compulsory circulation executed by a centrifugal pump. The water pump is driven by a V-belt from the crankshaft pulley. For acceleration of engine warming up after start-up and for automatic control of a temperature mode at various loadings and ambient temperatures there is a thermostat.

To provide for a required chemical composition of exhaust gases under Tier-IIIB stage the system of selective catalytic reduction (SCR) is additionally installed in the exhaust system.

The coupling clutch is frictional, dry, two-disk, spring-loaded. The CC overlays are asbestos free. The coupling control drive is mechanical.

The gearbox is 16F + 8R, mechanical, fixed-ratio, with constant-mesh gears. Shifting of gears within the ranges is executed by means of synchro-mesh units, switching between ranges is executed by toothed clutches.

Optional can be installed GB 24x12.

The rear axle is with the main drive, differential, hub and final drives of planetary type.

Brakes: service brakes are multidisk, oil-lubricated, located on final drive pinion shafts; the parking brake is independent, manually controlled. It is possible to mount the dry-friction brakes. The trailer brake control drive can be either double-line pneumatic, or hydraulic, interlocked with tractor service brakes control. Against order the tractor may not be equipped with the trailer brake pneumatic drive – tires are inflated through a valve of the pneumatic compressor.

The rear power takeoff shaft is continuous dual-speed (540 and 1000 min⁻¹) and synchronous, the direction of rotation is clockwise when viewed from the shaft end face. There are PTO shaft end extensions: PTO shaft end extension 1 (6 splines, 540 min⁻¹), PTO shaft end extension 1c (8 splines, 540 min⁻¹), PTO shaft end extension 2 (21 splines, 1000 min⁻¹).

The transmission hydraulic system provides for the following:

- switching of the FDA drive, differential lock, PTO engagement (optional);
- filtration of transmission oil;
- pressure feed lubrication of gearbox bearings, of FDA drive bearings;

Steering is hydrostatic. The feed pump is gear-type, the direction of rotation is left. The dosing pump is gerotor-type. The type of the rotation mechanism - two hydraulic cylinders (TS50x200) of bidirectional operation and a steering linkage.

The front driving axle has an axle drive gear, a self-locked differential, final gears (planetary gear groups). The FDA drive is a parallel-shaft gear unit with hydraulically-pressed clutch built in the gearbox, a propeller shaft. The FDA drive control is electro-hydraulic.

The lift linkage is a remote-cylinder system with a hydraulic lift, with rear left and right duplicated outlets of the hydraulic system – depending on the HHL control type.

Optional the tractor can be equipped with EHR electro-hydraulic system of rear lift linkage automatic control.

Free drain is available at the back of the tractor for operation with hydraulic units with constant delivery, hydraulic motors for instance.

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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	SHP
Б	B	...КЗС...	...KZS...
В	V	СЧ-114Б; СШ	SCH-114B; SSH
Г	G	ХЧП 10; ХЧМ	HCHP 10; HCHM
Гг	Gg	ТКРН-3	TKRN-3
Д, Ду	D, Du	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; KG 1/8"	ЯВАГ	YAVAG
Л	L	АУШ, АДЮИ	AUSH, ADYUI
М, МКПВ	M, MKPV	АШ	ASH
Н	N	ЕМУШ	EMUSH
П; 80П-...; ПР, ПЭ	P; 80P-...; PR, PE	УС	US
Р; Р80; РТ; РП-70; РД, РАУС	R; R80; RT; RP-70; RD, RAUS	ШС	SHS
С; 80С-...; С15, САКД	S; 80S-...; S15, SAKD	Ф50	F50
Т; ТС	T; TS	ВК	VK
У; 70У-...; УМЖ, УКФ,	U; 70U-...; UMZH, UKF	ШЦК	SHCK
Х; ХЧП	H; HCHP	ПК КГ 3/8"	PK KG 3/8"
Ц; Ц125, ЦИКС	TS; TS 125 TSIS	ДОТ	DOT
Ч; СЧ	CH; SCH	ТД, ТИИР	TD, TIIR
Ш	SH	ЛБИЕ, ЛЯКШ	LBIE LYAKSH
НМШ; НШ	NMSH; NSH	ДАДМ	DADM
Ф, ФП	F, FP	ДУОТ	DUOT
ШП 8, ШЧ8	SHP 8, SHCH 8	ЭФО	EFO

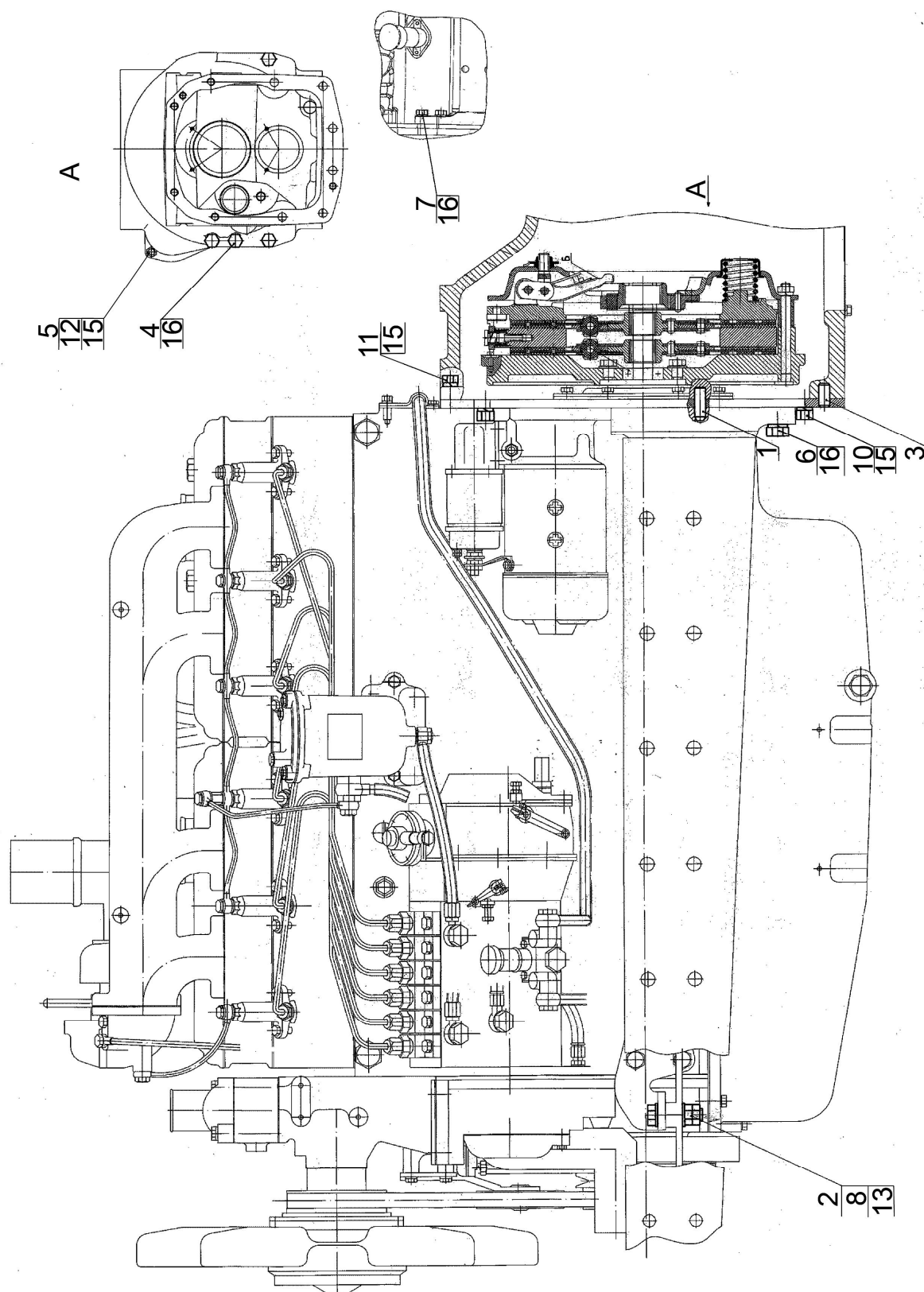


Fig. 10.1 Engine assembly

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
10.1		1221-1001001	1	Engine assembly
	1	50-1601352	2	Dowel pin
	2	52-2301065	4	Washer
	3	D01-015	2	Dowel pin
	4	70-2800016	4	Bolt
	5		1	Bolt M12-6gh75.88.35.019 GOST 7795-70
	6		4	Bolt M16-6gh60.88.35.019 GOST 7795-70
	7		2	Bolt M16-6gh70.88.35.019 GOST 7795-70
	8		2	Bolt M16-6gh75.88.35.019 GOST 7795-70
	10		3	Bolt M12-6gh30.88.35.019 GOST 7796-70
	11	220-2401022	1	Bolt
	12		1	Nut M12-6N.6.019 GOST 5915-70
	13		4	Nut M16-6N.6.019 GOST 5915-70
	15		5	Washer 12 OT OST 37.001.115-75
	16		10	Washer 16 OT OST 37.001.115-75

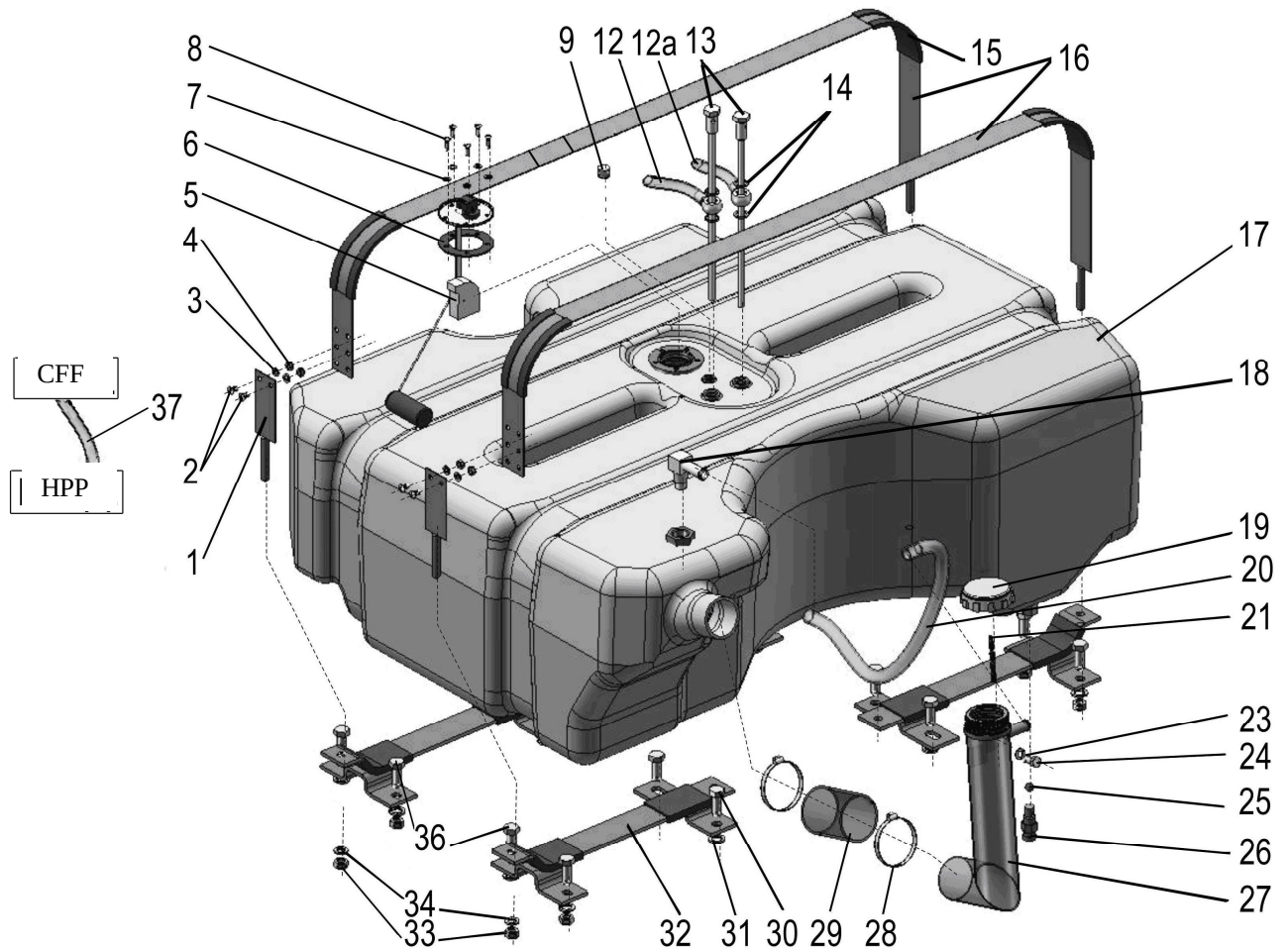


Fig.11.1 Fuel tank

Group 11. Fuel feed system
Subgroup 1101. Fuel tank

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
11.1		920-1101600-05	1	Tank
	1	1221-1101690-01	2	Clamp
	2		4	Screw M6-6gx10.58.019 GOST 17473-80
	3		4	Washer 6T OST 37.001.115-75
	4		4	Nut M6-6N.6.019 GOST 5915-70
	5	DOT.265SH-01	1	Sensor
	6	200-3806026	1	Gasket
	7	80-1101067	5	Washer
	8		5	Screw V.M5-6gh16.58.019 GOST 17473-80
	9	KG 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	RM14	4	Washer
	15	PR-43-03	4	Sealant UM6
	16	1221-1101680	2	Clamp
	17	1221-1101510 or YAVAG1221-1101510	1	Tank
	18	1221-1101620	1	Angle piece
	19	082-1103010	1	Plug
	20	85-1101002	1	Pipe
	21	36-1101070	1	Chain
	23		1	Washer 8T OST 37.001.115-75
	24		1	Bolt M8-6gh20.88.35.019 GOST 7796-70
	25		1	Ball 11,112-100 GOST 3722-81
	26	822-1101081	2	Fitting
	27	920-1101260	1	Filler neck
	28	XC-61	2	Clamp
	29	70-1101035-B	1	Hose pipe
	30		8	Bolt M12-6gh45.88.35.019 GOST 7796-70
	31		8	Washer 12 OT OST 37.001.115-75
	32	1221-1101130	4	Bracket
	33		12	Nut M10-6N.04.019 GOST 5916-70
	34		12	Washer 10 OT OST 37.001.115-75
	36		8	Bolt M10-6gh25.88.35.019 GOST 7796-70
	37	920-1101162-02	1	Pipe

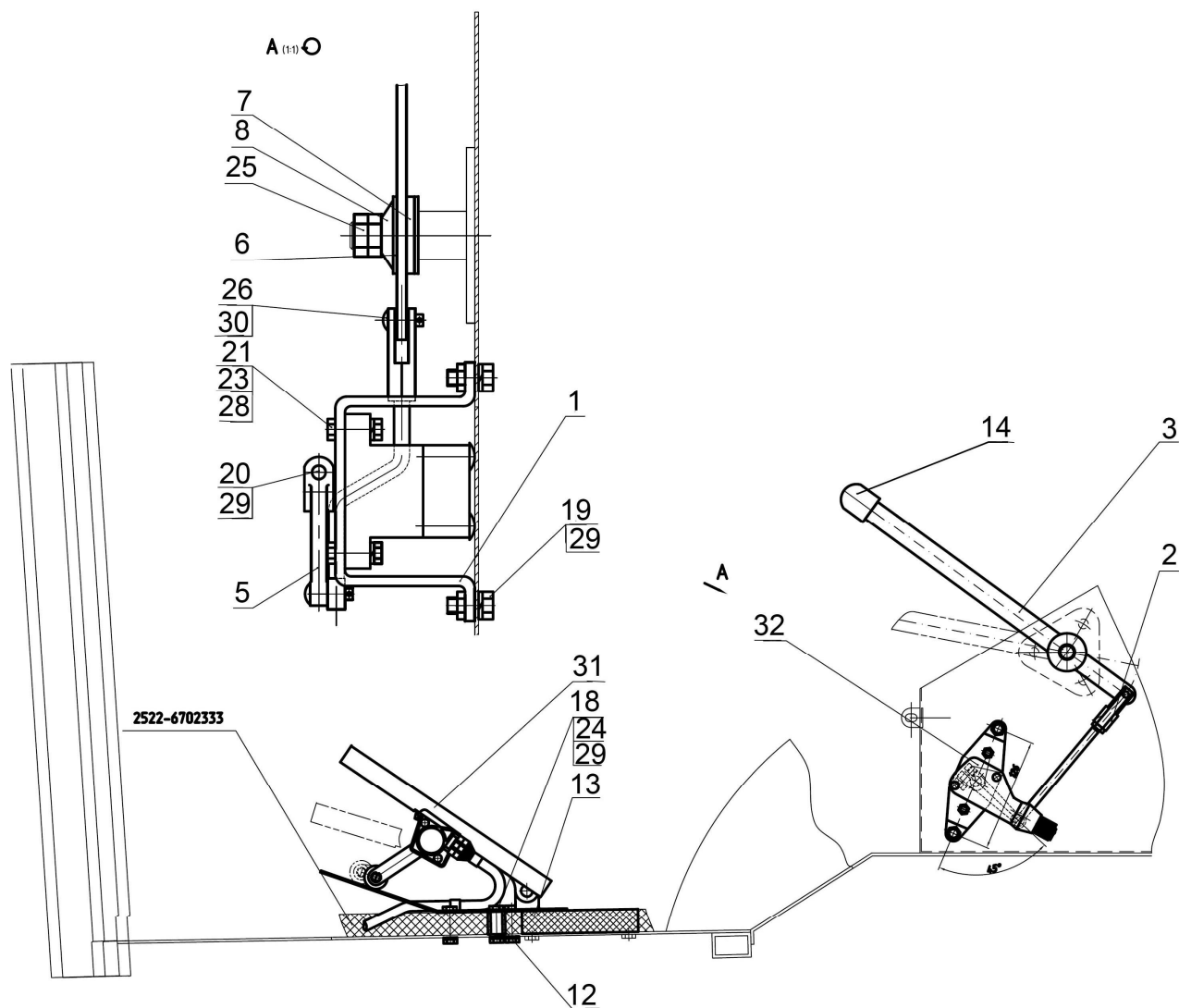


Fig.11.2. Fuel feed control

Group 11. Fuel feed system
Subgroup 1108. Fuel feed control

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
11.2		1221.4-1108000	1	Fuel feed control
	1	2022D-1108015	1	Bracket
	2	2022D-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	80V-1108347	1	Disc 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		2	Bolt M8-6gh45.88.35.019 GOST 7795-70
	19		2	Bolt M8-6gh20.88.35.019 GOST 7795-70
	20		1	Bolt M8-6gh25.88.35.019 GOST 7795-70
	21		2	Bolt M6-6gh25.88.35.019 GOST 7798-70
	23		2	Nut M6-6N.6.019 GOST 5915-70
	24		2	Nut M8-6N.6.019 GOST 5915-70
	25		2	Nut M14h1,5-6N.04.019 GOST 5916-70
	26		2	Split pin 2h12.019 GOST 397-79 GOST 397-79
	28		2	Washer 6T OST 37.001.115-75
	29		5	Washer 8T OST 37.001.115-75
	31	EAAX-EXP0023	1	Electronic pedal
	32	EAAX-EFT1743	1	Hand control sensor

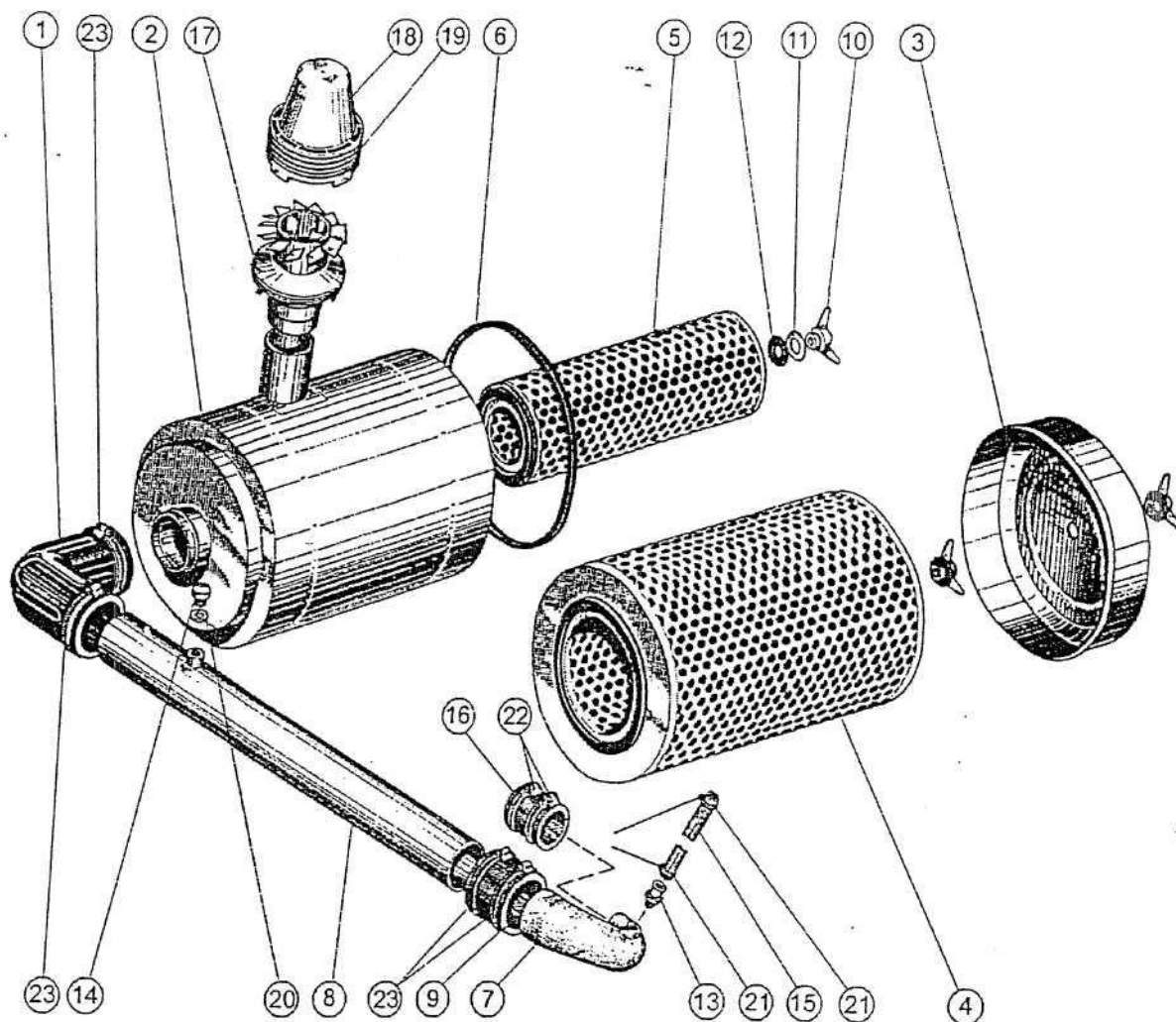


Fig. 11.3 Air supply line

**Group 11. Fuel feed system.
Subgroup 1109. Air supply line.**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
11.3		260-1109010	1	Air cleaner (consists of the parts 260-1109015-02; A53.21.000 – 02)
		260-1109015-02	1	Air cleaner (consists of the parts 245-1109310; 2-6;)
		245-1109310	1	Nut (consists of the parts 10-12)
		A53.21.000-02	1	Monocyclon (consists of the parts 17-19)
		260-1109400-01	1	Pipe (consists of the parts 8; 14; 20)
	1	260-1109009-A	1	Connecting pipe
	2	260-1109035-02	1	Housing
	3	260-1109256	1	Pan
	4	260-1109300 or V4318-00	1	Element filter
	5	260-1109300-01 or V4318 -01.00	1	Element filter
	6	260-1109306	1	Ring
	7	260-1109402	1	Connecting pipe
	8	260-1109410-01	1	Pipe
	9	245 -1008029	1	Connecting pipe
	10	245-1109311	3	Nut
	11	245-1109316	3	Washer
	12	245-1109317	3	Gasket
	13	242-3509213	1	Fitting
	14	50-1117028	1	Threaded plug
	15	18-29-600-1,3(13)	1	Hose-part
	16	70-81-66-0,2(2)	1	Hose -part
	17	A53.21.001-02	1	Connecting pipe
	18	A53.21.002-02	1	Cap
	19	A53.21.00Z-02	1	Cover
	20	D18-055-A-01	1	O-Ring
	21	HSHP.10-019 or XC-26.019	2	Binding screw clamp
	22	HS - 78.019	2	Binding screw clamp
	23	HS-101.019	4	Binding screw clamp

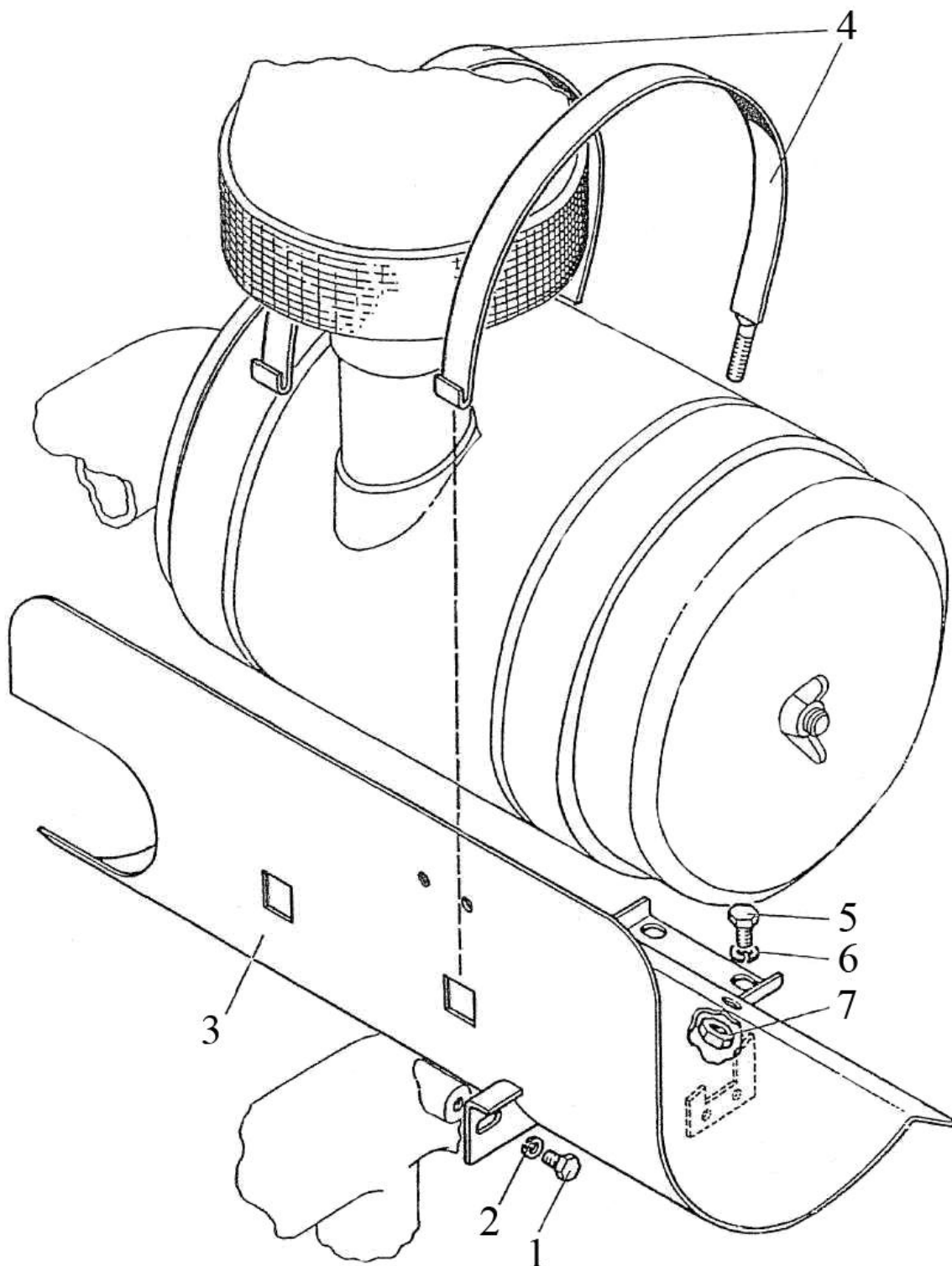


Fig.11.4 Air cleaner assembly

Group 11. Fuel feed system
Subgroup 1109. Air cleaner assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
11.4		1523.5-1109125	1	Air cleaner assembly
	1		1	Bolt M8-6gh14.88.35.019 GOST 7796-70
	2		1	Washer 8T OST 37.001.115-75
	3	1523.5-1109020	1	Support
	4	1522-1109025	2	Clamp
	5		2	Bolt M10-6gh18.88.35.019 GOST 7796-70
	6		2	Washer 10 OT OST 37.001.115-75
	7		2	Nut M10-6N.6.019 GOST 5915-70

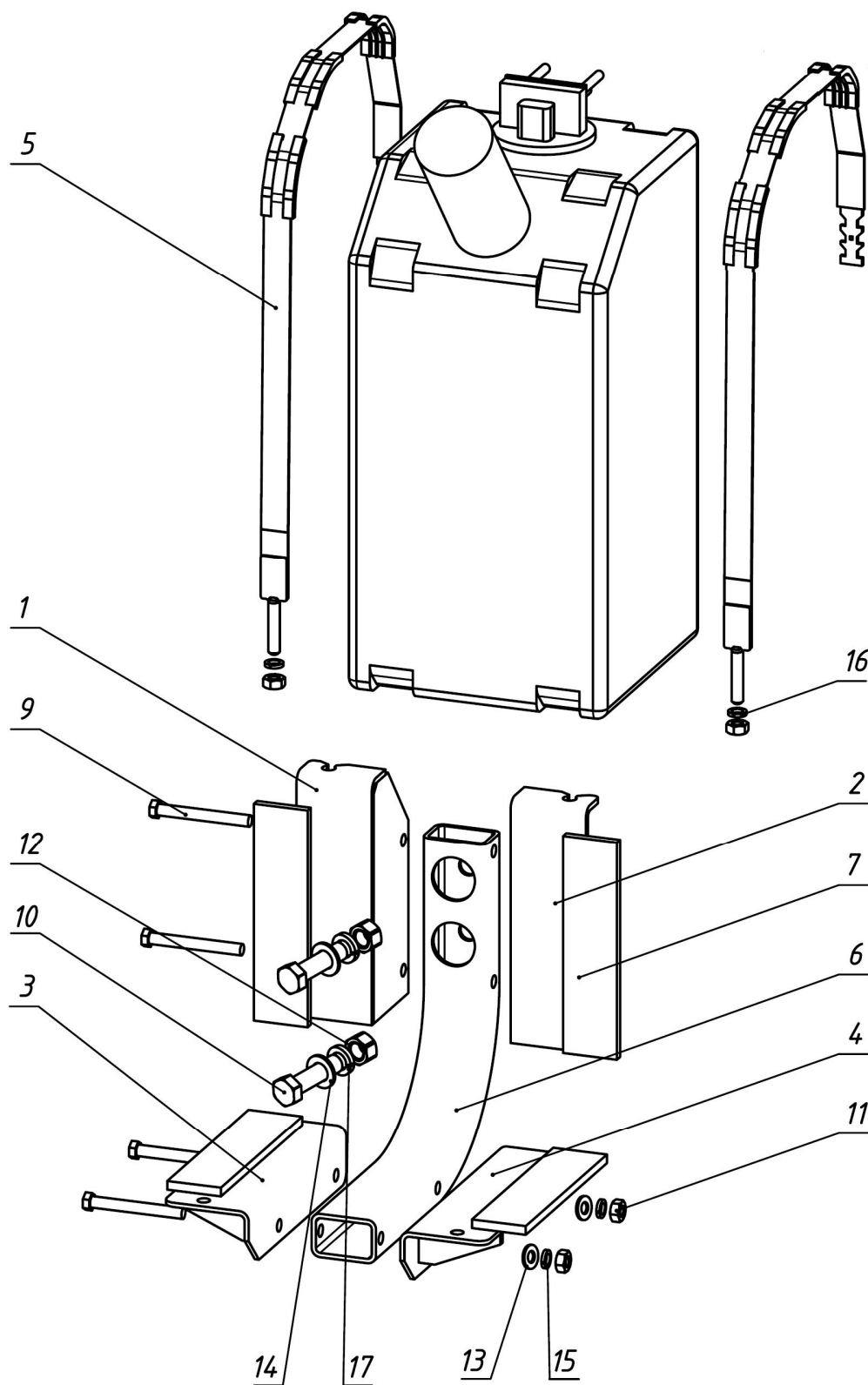


Fig. 12.1 Tank assembly

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**Group 12. Exhaust system
Subgroup 1201. Tank assembly**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
12.1		2022.5A-1201000	1	Tank assembly
	1	2022.5A-1201010	1	Support
	2	2022.5A-1201010-01	1	Support
	3	2022.5A-1201020	1	Bracket
	4	2022.5A-1201020-01	1	Bracket
	5	2022.5A-1101070	2	Clamp
	6	2022.5A-1101136	1	Pipe
	7	1522-1101118	4	Gasket
	9		4	Bolt M10-6gh85.88.35.019 GOST 7795-70
	10		2	Bolt M16-6gh50.88.35.019 GOST 7796-70
	11		6	Nut M10-6N.6.019 GOST 5915-70
	12		2	Nut M16-6N.6.019 GOST 5915-70
	13		4	Washer S 10.01.019 GOST 11371-78
	14		2	Washer S 16.01.019 GOST 11371-78
	15		4	Washer 10 OT OST 37.001.115-75
	16		2	Washer 10L OST 37.001.115-75
	17		2	Washer 16 OT OST 37.001.115-75

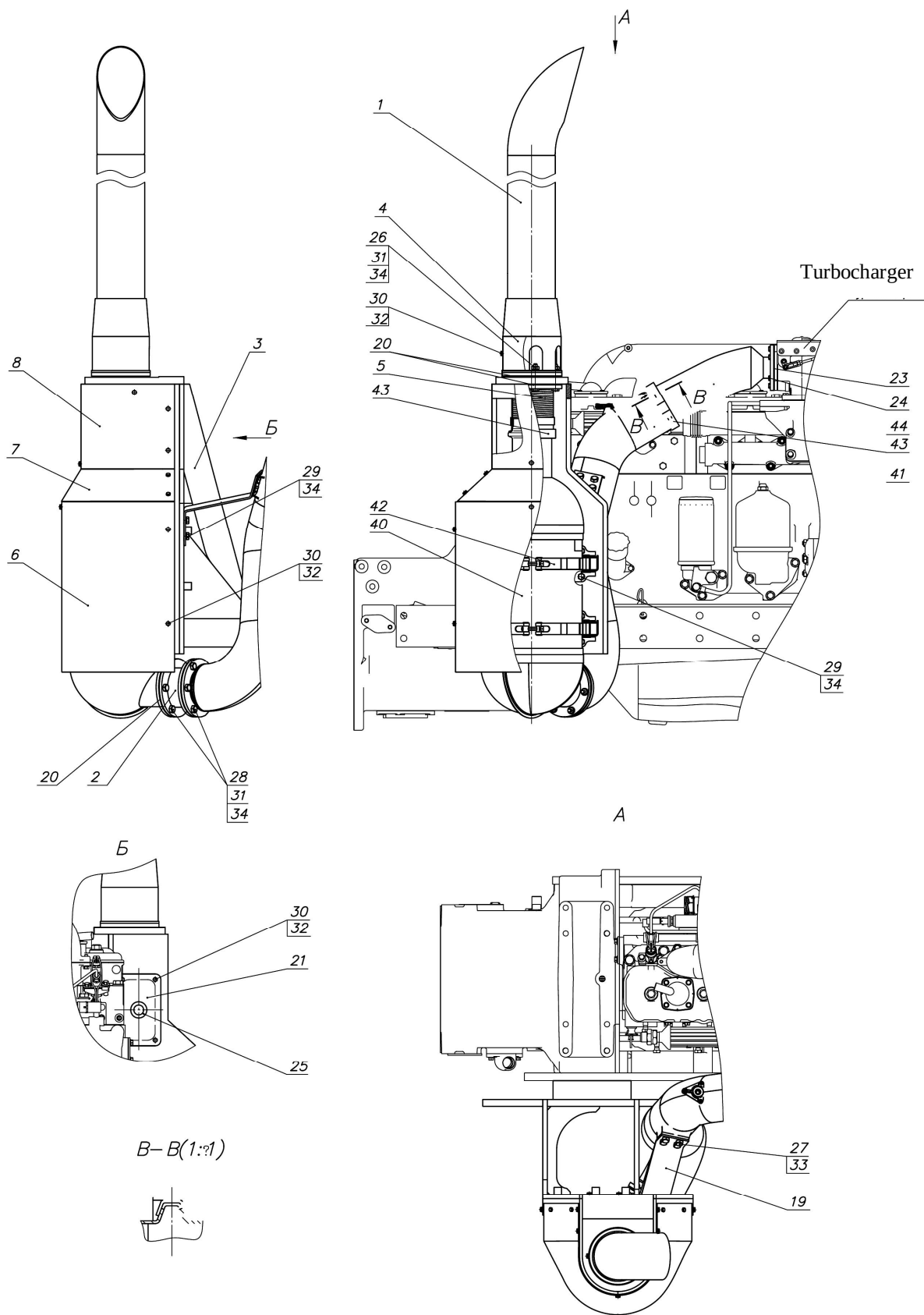
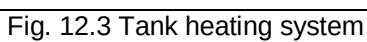


Fig. 12.2 Muffler assembly

**Group 12. Exhaust system
Subgroup 1205. Muffler assembly**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
12.2		1221.5-1205005	1	Muffler assembly
	1	1221.5-1205110	1	Muffler pipe
	2	1221.5-1205120	1	Connecting pipe
	3	1221.5-1205835	1	Bracket assy
	4	2022.5-1205020	1	Guard
	5	2022.5-1205110	1	Compensator
	6	2022.5-1205760-B	1	Guard
	7	2022.5-1205775-B	1	Guard
	8	2022.5-1205780	1	Guard
	19	1221.5-1205856	1	Bracket
	20	2022.5-1205001	4	Gasket
	21	2022.5-1205011	1	Cover
	23	2022-1205006-B	1	Gasket
	24	265-1205028-01	6	Bolt
	25	70-3723042-02	1	Bushing
	26		6	Bolt M10-6gh65.88.35.019 GOST 7795-70
	27		4	Bolt M8-6gh20.88.35.019 GOST 7796-70
	28		12	Bolt M10-6gh35.88.35.019 GOST 7796-70
	29		10	Bolt M10-6gh30.88.35.019 GOST 7796-70
	30		21	Bolt M6-6gh16.88.35.019 GOST 7798-70
	31		18	Nut M10-6N.04.019 GOST 5916-70
	32		21	Washer S.6.01.019 GOST 11371-78
	33		4	Washer 8T OST 37.001.115-75
	34		28	Washer 10 OT OST 37.001.115-75
	40		1	SCR-catalyst 0452 D20 2S4-00
	41		1	Mixing pipe 0452 D20 2T6-00
	42		2	SCR-catalyst fastening clamp 0452 B20 2M2-00
	43		2	Clamp 78803
	44		1	Air duct 000.4859.404.000
	45		1	Flange 260-1008059



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Group 12. Exhaust system
Subgroup 1209. Tank heating system

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
12.3		1221.5-1209010	1	Tank heating system
	1	3522.5-1209020	2	Angle piece
	3	2022.5-1209011-B	1	Bracket
	5		4	Bolt M6-6gh12.88.35.019 GOST 7798-70
	6		4	Washer 6 T OST 37.001.115-75
	9		1	Tank heating valve 0452 C20 3CL-00
	10		10	Clamp/Clamp NORMA TORRO 12-22/971 or Clamp "NORMA" TORRO 12-20/9-C6W
	11		4	Clamp/Clamp NORMA TORRO 16-27/971 or Clamp "NORMA" TORRO 16-25/9-C6W
	16		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L=1400 mm)
	17		1	Hose pipe 10h18,5-1,6 GOST 10362-76(L=800 mm)
	18		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L=400 mm)
	19		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L=850 mm)
	20		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L=1400 mm)

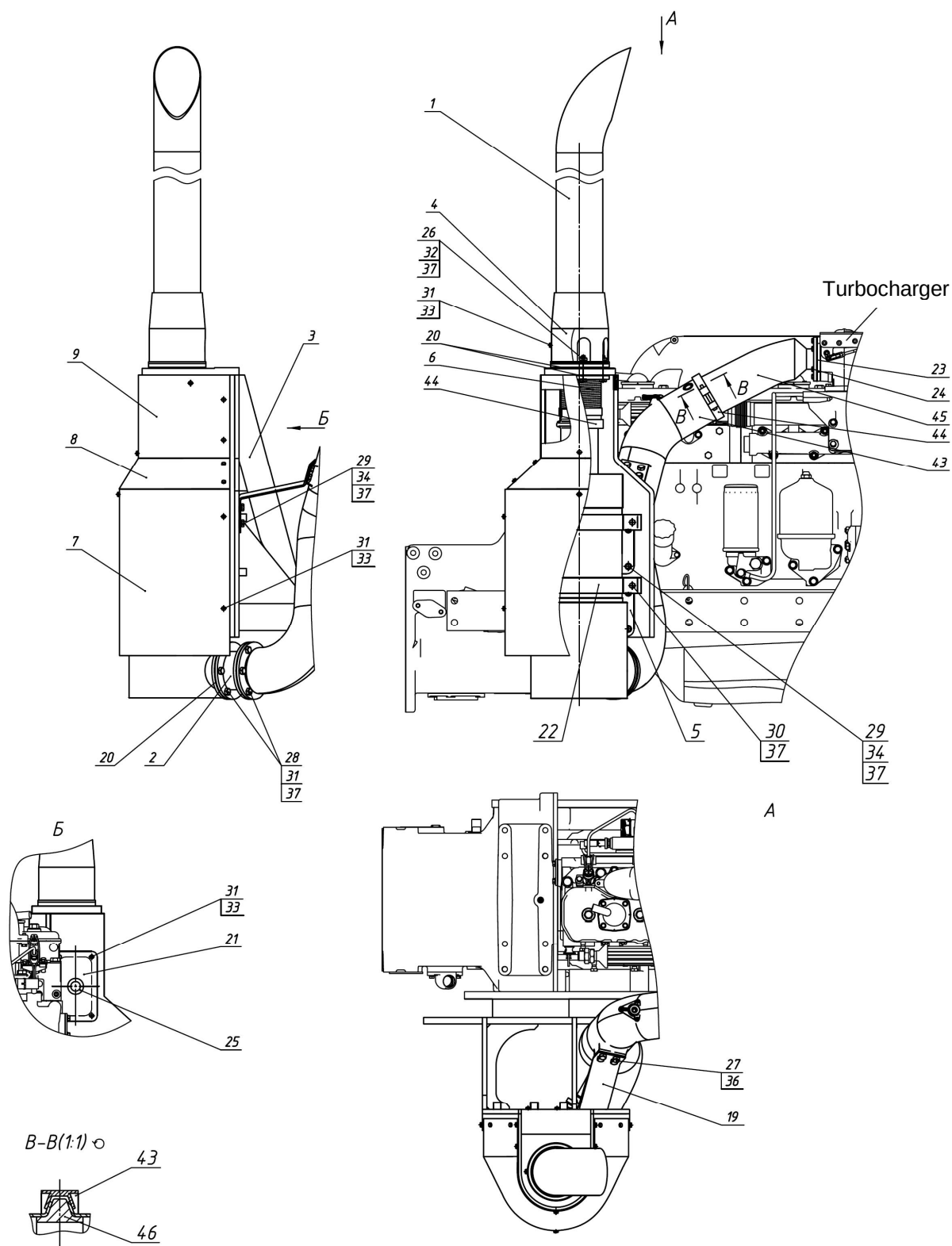


Fig.12.4 Muffler assembly

**Group 12. Exhaust system
Subgroup 1205. Muffler assembly**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
12.4		1221.5R-1205005	1	Muffler assembly
	1	1221.5-1205110	1	Muffler pipe
	2	1221.5-1205120	1	Connecting pipe
	3	1221.5-1205835	1	Bracket assy
	4	2022.5-1205020	1	Guard
	5	2022.5R-1205030	2	Neutralizer bracket
	6	2022.5-1205110	1	Compensator
	7	2022.5-1205760-B	1	Guard
	8	2022.5-1205775-B	1	Guard
	9	2022.5-1205780	1	Guard
	19	1221.5-1205856	1	Bracket
	20	2022.5-1205001	4	Gasket
	21	2022.5-1205011	1	Cover
	22	2022.5R-1205034	2	Clip
	23	2022-1205006-B	1	Gasket
	24	265-1205028-01	6	Bolt
	25	70-3723042-02	1	Bushing
	26		6	Bolt M10-6gh65.88.35.019 GOST 7795-70
	27		4	Bolt M8-6gh20.88.35.019 GOST 7796-70
	28		12	Bolt M10-6gh25.88.35.019 GOST 7796-70
	29		10	Bolt M10-6gh30.88.35.019 GOST 7796-70
	30		4	Bolt M10-6gh35.88.35.019 GOST 7796-70
	31		21	Bolt M6-6gh16.88.35.019 GOST 7798-70
	32		22	Nut M10-6N.04.019 GOST 5916-70
	33		21	Washer S.6.01.019 GOST 11371-78
	34		8	Washer S.10.01.019 GOST 11371-78
	35		21	Washer 6 T OST 37.001.115-75
	36		4	Washer 8T OST 37.001.115-75
	37		32	Washer 10 OT OST 37.001.115-75
	42		1	Neutralizer RKa260.4-1206010
	43		1	Pipe MMZ D-260.4
	44		2	Clamp 78803
	45		1	Air duct 000.4859.404.000
	46		1	Flange 260-1008059

Cab heating drain branch

Watercooling injector

Cab heating supply branch

Болт М8х85

A

Tank for AdBlue

Supply module

Cab heating drain branch

Cab heating supply branch

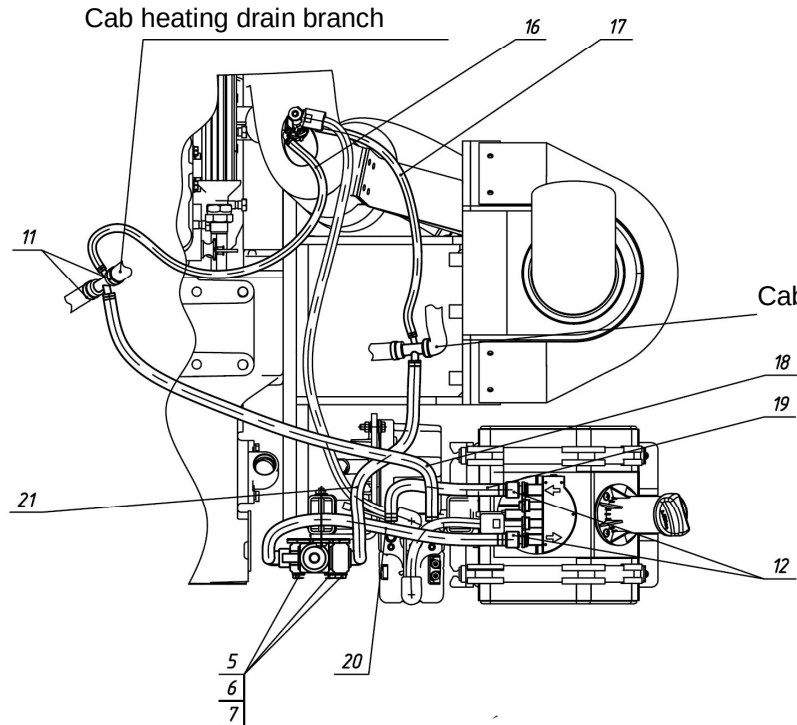


Fig. 12.5 Tank heating system

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1221.5

Group 12. Exhaust system
Subgroup 1209. Tank heating system

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
12.5		1221.5R-1209010	1	Tank heating system
	1	3522.5-1209020	2	Angle piece
	3	2022.5R-1209011	1	Bracket
	5		3	Bolt M8-6gh65.88.35.019 GOST 7796-70
	6		3	Washer S.8.01.019 GOST 11371-78
	7		3	Washer 8T OST 37.001.115-75
	9		1	Cooling liquid valve 4460913070
	10		4	Clamp/Clamp NORMA TORRO 16-27/971 or Clamp "NORMA" TORRO 16-25/9-C6W
	11		12	Clamp/Clamp NORMA TORRO 12-22/971 or Clamp "NORMA" TORRO 12-20/9-C6W
	12		2	Fitting NORMAQUIK PS NW8-10-0 (0702 8004 008)
	13		2	Fitting NORMAQUIK PS NW12-10-90 (0702 8017012)
	16		1	Hose pipe 6h14-1,6 GOST 10362-76 (L= 1000 mm)
	17		1	Hose pipe 6h14-1,6 GOST 10362-76 (L= 1000 mm)
	18		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L= 1320 mm)
	19		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L= 370 mm)
	20		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L= 775 mm)
	21		1	Hose pipe 10h18,5-1,6 GOST 10362-76 (L= 510 mm)

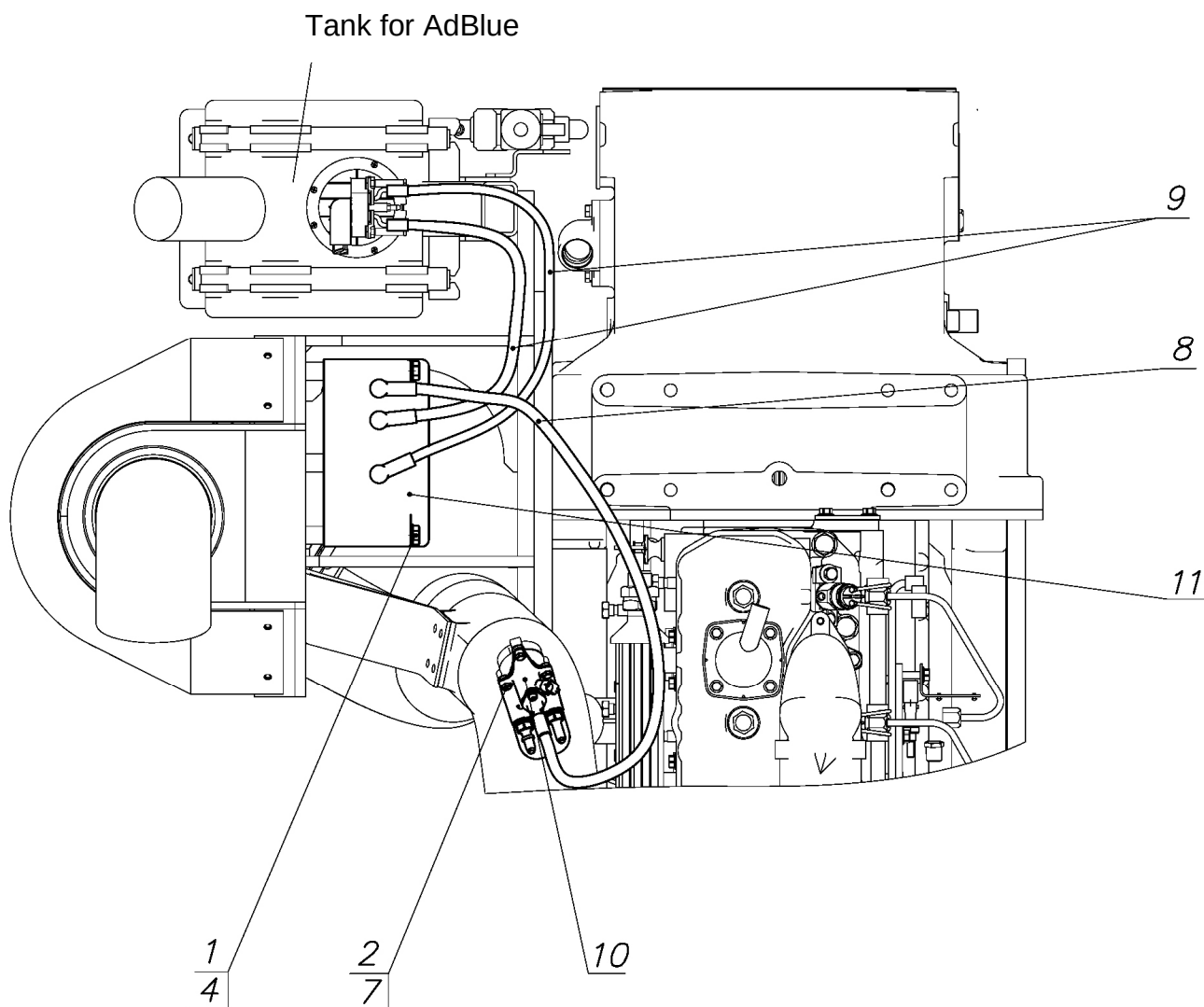


Fig. 12.6 Supply system

Group 12. Exhaust system
Subgroup 1204. Supply system

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
12.6		2022.5-1204010	1	Supply system
	1		3	Bolt M8-6gh90.88.35.019 GOST 7795-70
	2		3	Bolt M6-6gh20.88.35.019 GOST 7798-70
	4		3	Washer S 8.01.019 GOST 6958-78
	7		3	Washer 6 T OST 37.001.115-75
	8		1	AdBlue pipeline 0452 C20 3RY-00
	9		2	AdBlue pipeline 0452 C20 3RX-00
	10		1	DNOX2.2 Dosing module 0452 D20 3B 010
	11		1	DNOX2.2 Supply module 0449 Z98 771-00

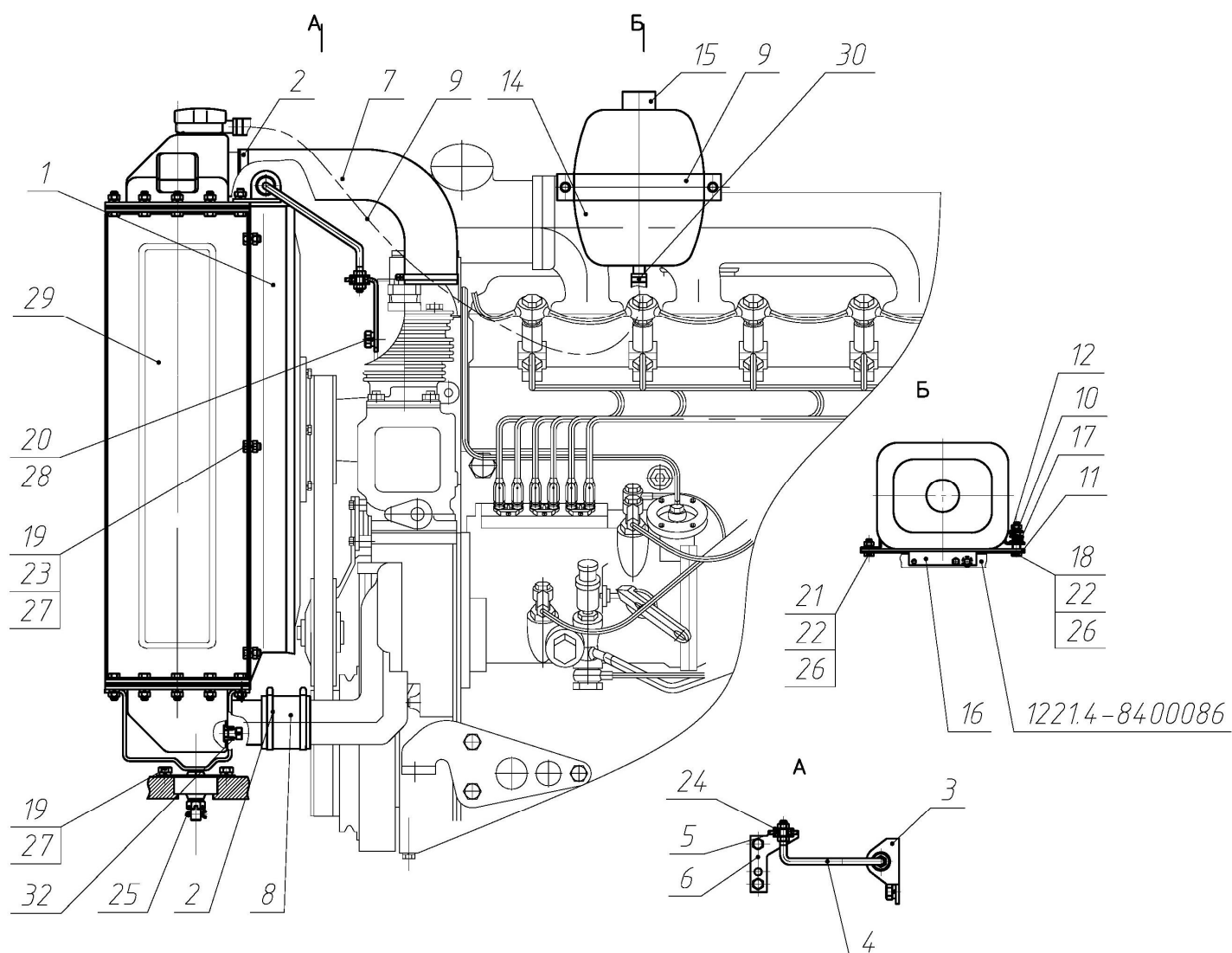


Fig. 13.1 Cooling unit

**Group 13. Cooling system
Subgroup 1301. Cooling unit**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
13.1		1523-1301009-01	1	Cooling unit
	1	1520-1309080	1	Casing
	2	HS-61*	4	Clamp
	3	1220-1302002	1	Bracket
	4	1520-1302003	1	Brace
	5	85-1302071	4	Shock adsorber
	6	1520-1302072	1	Bracket
	7	142-1303010	1	Hose
	8	1220-1303004-01	1	Hose pipe
	9	80-1311002	1	Clamp
	10	80-1311003	1	Bushing
	11	80-1311004	1	Plate
	12	80-1311006	1	Disc
	13	1520-1303001	1	Hose (Hose pipe 14h23-16 GOST 10362-76 L= (700±5))
	14	80P-1311010	1	Expansion tank
	15	80P-1311011	1	Plug
	16	923-1311001	1	Bracket
	17	54.06.413	1	Spring
	18		1	Bolt M6-6gh40.88.35.019 GOST 7795-70
	19		10	Bolt M8-6gh16.88.35.019 GOST 7796-70
	20		2	Bolt M10-6gh18.88.35.019 GOST 7796-70
	21		1	Bolt M6-6gh16.88.35.019 GOST 7798-70
	22		2	Nut M6-6N.6.019 GOST 5915-70
	23		10	Nut M8-6N.6.019 GOST 5915-70
	24		4	Washer S 8.01.019 GOST 6958-78
	25		2	Split pin 3,2h18.019 GOST 397-79
	26		2	Washer 6T OST 37.001.115-75
	27		10	Washer 8T OST 37.001.115-75
	28		2	Washer 10 OT OST 37.001.115-75
	29		1	Water cooler 1520-1301.010B-01 TU 4791-004-11943236-2006
	30	TORRO 12-20/9-C6W	2	Clamp «NORMA»
	31	TORRO 50-70/9-C6W*	4	Clamp «NORMA»
	32		1	Plug - KG 1/4". A12.019 TU 23.1.506-91

* Interchangeble

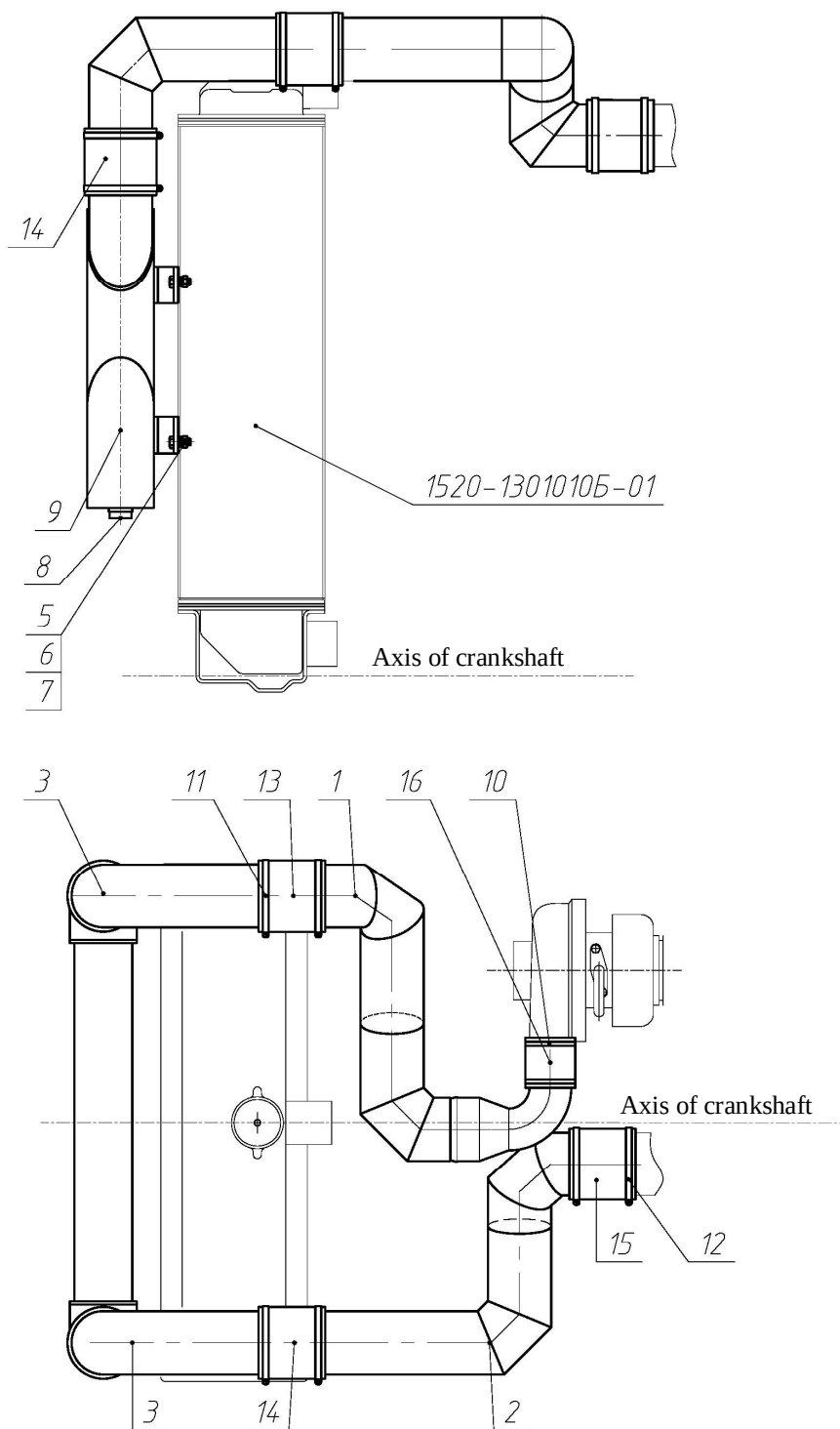


Fig. 13.2 Cooler assembly

**Group 13. Cooling system
Subgroup 1317. Cooler assembly**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
13.2		1523.4-1317010	1	Cooler assembly
	1	1523-1317600-A	1	Air line
	2	1523.4-1317610	1	Air line
	3	1523-1317620	2	Air line
	4	2022-1317631	1	Gasket
	5	M8h16	4	Bolt
	6	M8	4	Nut
	7	8T	4	Washer
	8	KG 1/4" A12.019	2	Plug TU 23.1.506-91
	9	1522-1317100	1	Charge air cooler
	10	GBS 61/20 W2	2	Clamp «NORMA»
	11	GBS 82/25 W2	8	Clamp «NORMA»
	12	GBS 101/25 W2	2	Clamp «NORMA»
	13	1317.01*	2	Silicone connecting pipe 75h100 red
		270 003 152-V TPD 282*	2	Silicone connecting pipe «Sico Rubena»
		PR001-75-100-MA*	2	Heat-resisting connecting pipe
	14	1317.02*	2	Silicone connecting pipe 75h100 blue
		270 003 152-A TPD 282*	2	Silicone connecting pipe «Sico Rubena»
		PR001-75-100-PES*	2	Heat-resisting connecting pipe
	15	1317.04*	1	Silicone connecting pipe 90h120, blue
		270 003 153-A TPD 282*	1	Silicone connecting pipe «Sico Rubena»
		PR001-90-120-PES*	1	Heat-resisting connecting pipe
	16	1317.09*	1	Silicone connecting pipe 50h100, red
		270 003 194-V TPD 282*	1	Silicone connecting pipe «Sico Rubena»
		PR001-50-100-PES*	1	Heat-resisting connecting pipe

* Interchangeable

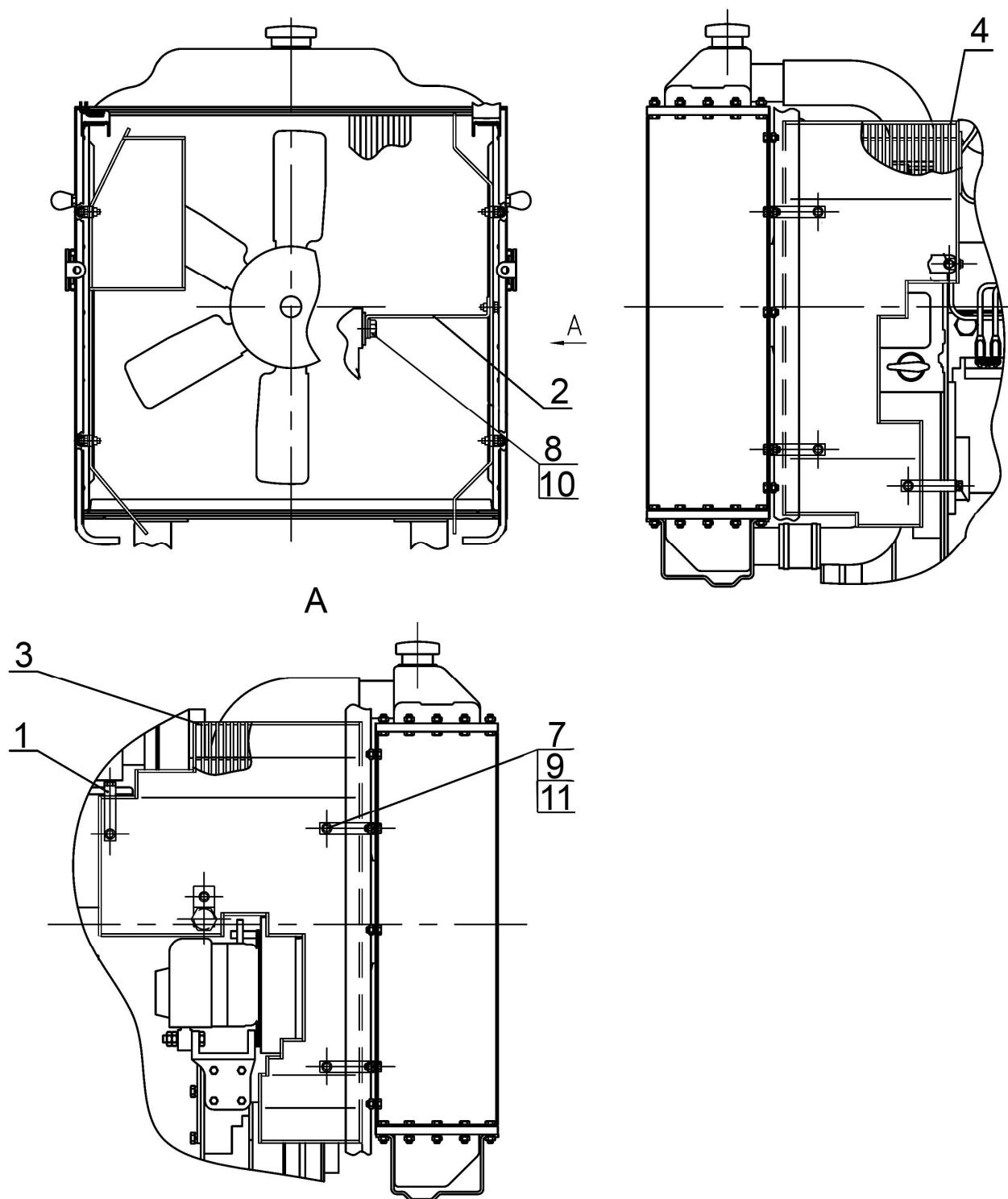


Fig. 13.3 Fan guard

Group 13. Guarding system
Subgroup 1309. Fan guard

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
13.3		1221-1309200	1	Fan guard
	1	1221-1309075	7	Bracket
	2	1221-1309085	1	Bracket
	3	1221-1309305	1	Right guard
	4	1221-1309310	1	Left guard
	7		8	Bolt M6-6gh16.88.35.019 GOST 7798-70
	8		1	Bolt M16-6gh32.88.35.019 GOST 7796-70
	9		8	Washer C6.01.019 GOST 6958-78
	10		1	Washer S16.01.019 GOST 11371-78
	11		8	Washer 6T OST 37.001.115-75

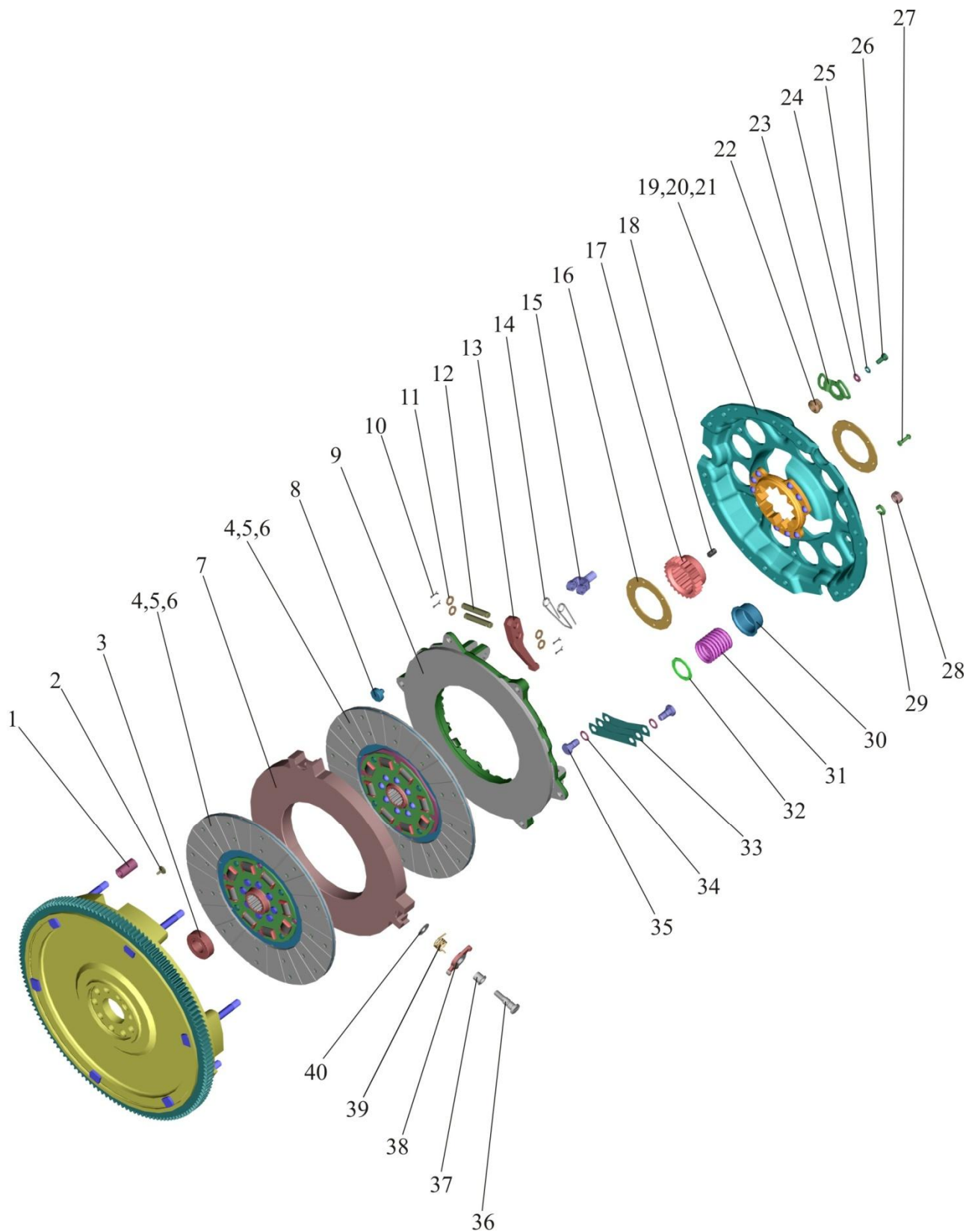


Fig. 16. 1 Clutch assembly

Group 16. Clutch
Subgroup 1601. Clutch assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
16.1		260.1-1005009	1	Clutch assembly (1-40)
		1520-1601085	1	Center plate (7, 36-40)
		85-1601090-B	1	Clutch plate (8-35)
		1522-1601120	1	Cover plate (16-18, 21, 27)
	1	70-1601074	6	Bushing
	2	142-1601316	3	Block
	3	180205K1C17	1	Bearing
	4	85-1601130-01	2	Driven plate (includes pos. 5 and 6)
	5	70-1601138-01	2	Friction lining (included into pos. 4)
	6		48	Rivet 2-4h8.32 GOST 12642-80 (included into pos. 4)
	7	1520-1601092	1	Center plate
	8	1520-1601123	3	Limit stop
	9	85-1601093-B	1	Pressure plate
	10		12	Split pin 3,2x18.019 GOST 397-79
	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		9	Rivet 8x22.01 GOST 10299-80 (included into pos. 21)
	20	1522-1601051	1	Hub (included into pos. 21)
	21	1522-1601125	1	Cover plate (includes pos. 19 and 20)
	22	85-1601109-A	3	Adjusting nut
	23	85-1601086	3	Lock washer
	24		6	Washer C 8.01.019 GOST 11371-78
	25		6	Washer 8 T OST 37.001.115-75
	26		6	Bolt M8-6gh16.88.35.019 GOST 7796-70
	27		6	Rivet 6h30.01 GOST 10299-80
	28		9	Nut M12h1,25-6N.6.019 GOST 5915-70
	29		9	Washer 12 OT OST 37.001.115-75
	30	85-1601072-B	9	Body
	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
	36	142-1601306	3	Axle of release lever
	37	142-1601088	3	Bushing
	38	142-1601087-B	3	Release lever
	39	142-1601314-B	3	Spring
	40	142-1601089	3	Lock washer

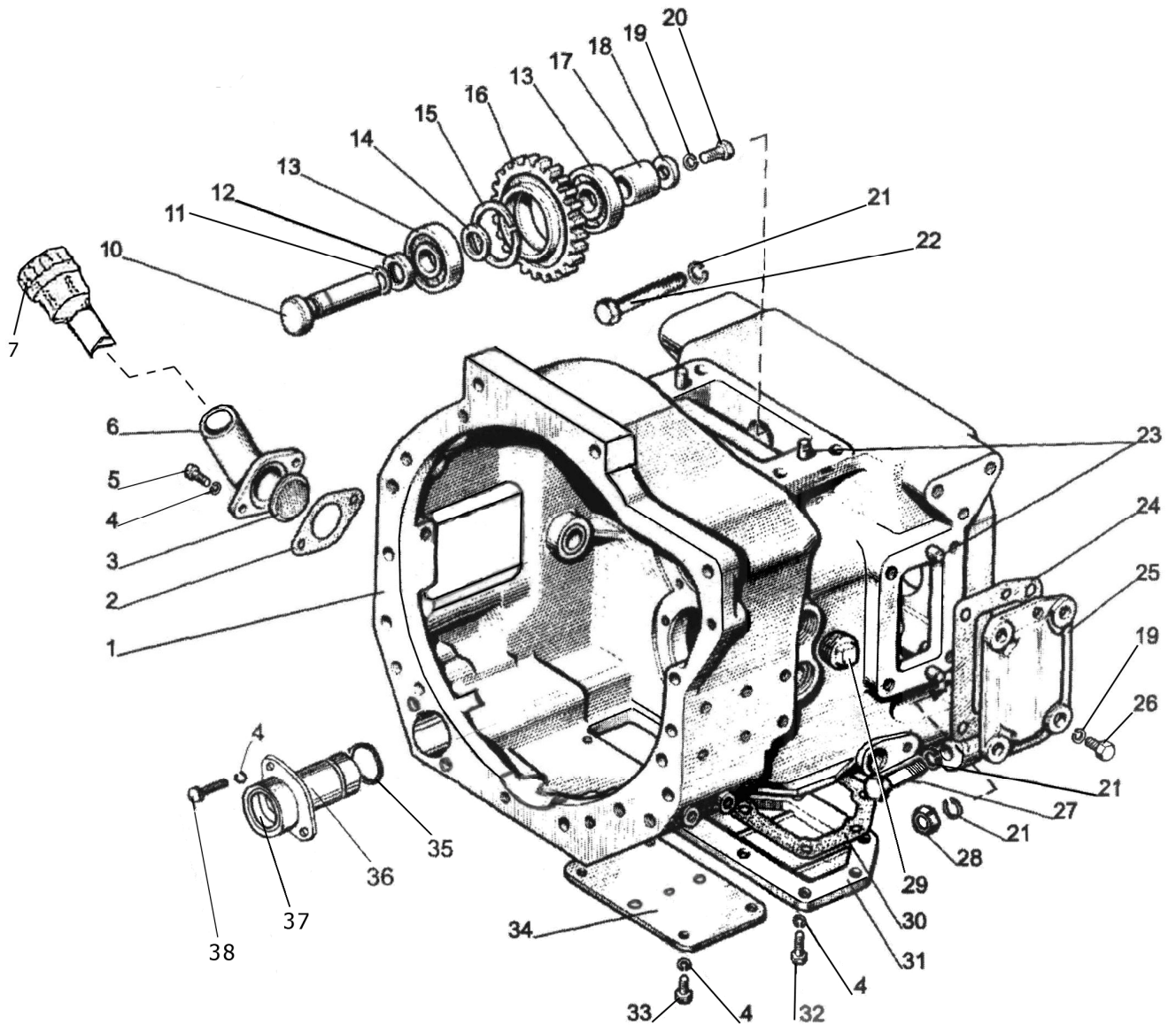


Fig.16.2 Clutch housing

Group 16. Clutch
Subgroup 1601. Clutch

Fig.	Pos.	Designation	Q-ty	Description
16.2		1220-1600010 ¹⁾ 1220-1600010-01 ²⁾		Clutch housing (1-7, 10-20, 23-26, 29-34)
		70-1601330	1	Gear (13-16)
		1220-1601300	1	Filler neck (6, 7)
		86-1802015-B	1	Cage (35-37)
	1	80-1601015	1	Housing
	2	240-1002082-A	1	Gasket
	3	240-1002085	1	Mesh
	4		15	Washer 8T OST 37.001.115-75
	5		2	Bolt M8-6gh20.88.35.019 GOST 7796-70
	6	1220-1601310	1	Filler neck
	7	082-1103010	1	Plug
	10	80-1601335	1	Axle
	11		1	Ring 020-025-30-1-4 GOST 18829-73/ GOST 9833-73
	12	80-1601337	1	Washer
	13	305A GOST 8338-75	2	Bearing
	14	70-1601333	1	Ring
	15		1	Ring S62 GOST 13941-86
	16	70-1601331	1	Gear
	17	80-1601336	1	Bushing
	18	80-1601334	1	Thrust washer
	19		5	Washer 12 OT OST 37.001.115-75
	20		1	Bolt M12-6gh35.88.35.019 GOST 7796-70
	21		6	Washer 20 OT OST 37.001.115-75
	22	70-4605036-03	1	Bolt
	23	SHTSK 10h25	4	Dowel
	24	80-1601343	1	Gasket
	25	80-1601342	1	Cover
	26		4	Bolt M12-6gh30.88.35.019 GOST 7796-70
	27	70-4605036	4	Bolt
	28		1	Nut M20-6N.6.019 GOST 5915-70
	29	PK KG 1 1/4"	1	Plug
	30	80-1601314	1	Gasket
	31	80-1601313	1	Cover
	32		7	Bolt M8-6gh25.88.35.019 GOST 7796-70
	33		4	Bolt M8-6gh16.88.35.019 GOST 7796-70
	34	50-1601341	1	Cover
	35		1	Ring 048-052-25-2-4 GOST 18829-73/GOST 9833-73
	36	86-1802020	1	Cage
	37		2	Collar 2.2-38h58-1 GOST 8752-79/ OST 3805146-78
	38		2	Bolt M8-6gh35.88.35.019 GOST 7796-70
¹⁾ Together with GB 16F+8R				
²⁾ Together with GB 24F+12R				

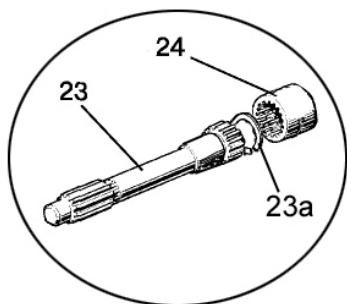
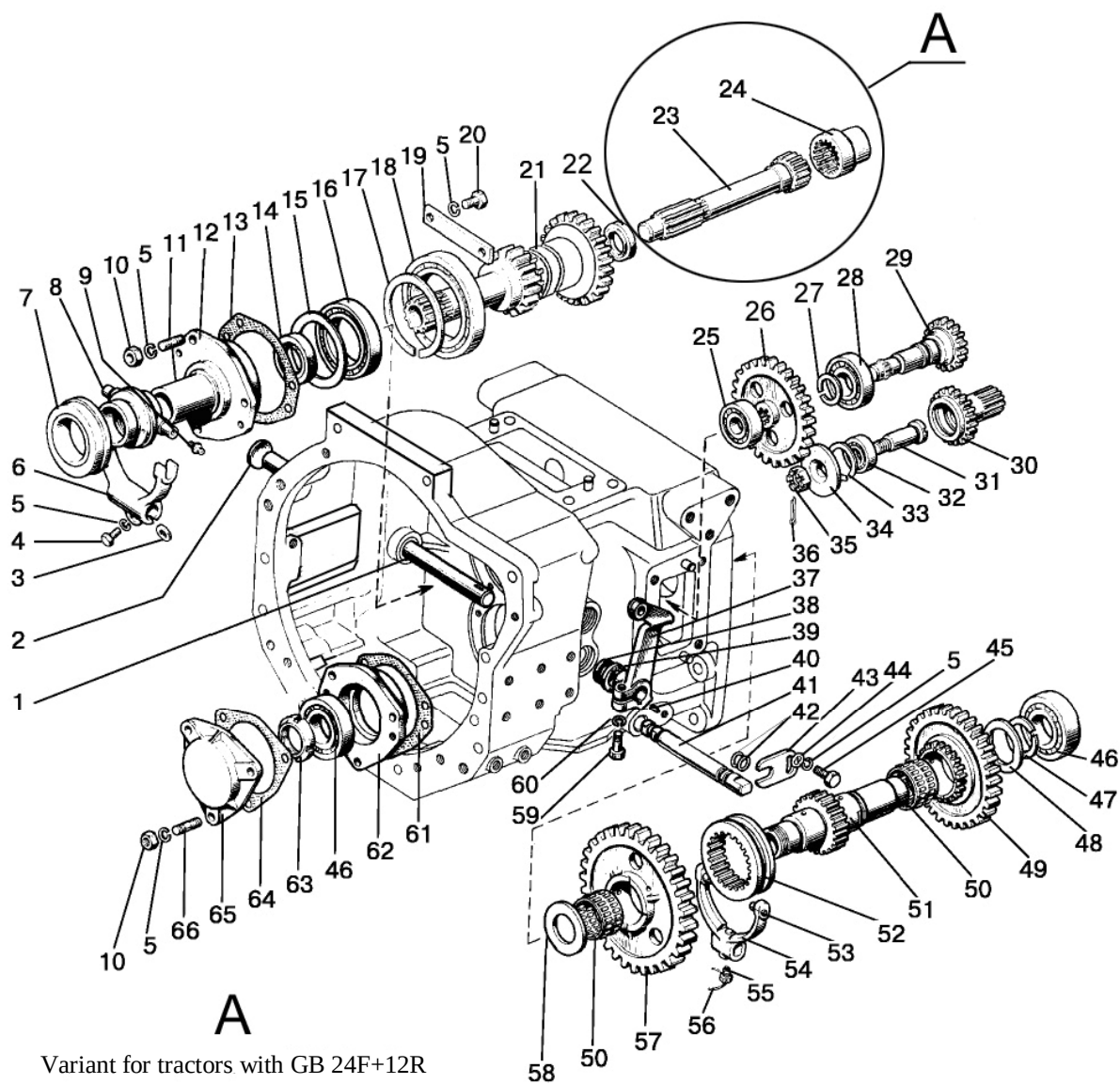


Fig.16.3 Clutch housing

Group 16. Clutch
Subgroup 1601. Clutch housing

Fig.	Pos.	Designation	Q-ty	Description
16.3		80-1601030-01	1	Release yoke bracket (12, 14)
		80-1601040	1	Body (46-1 pcs., 62)
		80-1601050-01	1	Shaft (16-18, 21, 22)
		80-1601070	1	Gear shaft (27-29)
		80-1601160	1	Shaft (46-1pcs., 47-49, 50-1 pcs., 51)
		80-1601180	1	Gear (30-33)
		50-1601180-A	1	Release yoke (7-9)
		80-1601190	1	Fork (53, 54)
	1	85-1601215	1	Shaft
	2	50-1601022	1	Blind plug
	3	50-1601218	1	Key
	4		1	Bolt M10-6gh30.88.35.019 GOST 7796-70
	5		10	Washer 10 OT OST 37.001.115-75
	6	85-1601203	1	Fork
	7	986714 K1S23	1	Bearing
	8	50-1601185-A	1	Release yoke
	9	1.1.TS9.hr GOST 19853-74	1	Oiler
	10		6	Nut M10-6N.6.019 GOST 5915-70
	11		3	Stud M10 3r/6gh25.66.019 GOST 22034-76
	12	85-1601172	1	Bracket
	13	80-1601173	1	Gasket
	14	240-1002055	1	Collar
	15	80-1601319	1	Washer
	16	115 K5 GOST 8338-75	1	Bearing
	17		1	Ring S105 GOST 13940-86
	18	76-1000921 GOST 8338-75	1	Bearing
	19	80-1601318	1	Strip
	20		2	Bolt M10-6gh25.88.35.019 GOST 7796-70
	21	85-1601026	1	Shaft
	22		1	Collar 2.2-38h58-1 GOST 8752-79/OST 3805146-78
	23	80-1601113-01 ¹⁾ 1222-1601113 ²⁾	1	Shaft
	23a	S45 GOST 13941-86 ²⁾	1	Ring
	24	80S-1601061 ¹⁾ 2022-1601061 ²⁾	1	Bushing
	25	305A GOST 8338-75	1	Bearing
	26	80-1601357-B	1	Gear
	27	S35 GOST 13940-86	1	Ring
	28	207 GOST 8338-75	1	Bearing
¹⁾ Together with GB 16F+8R ²⁾ Together with GB 24F+12R				

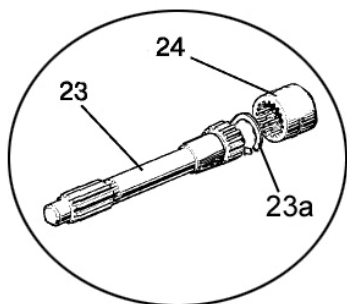
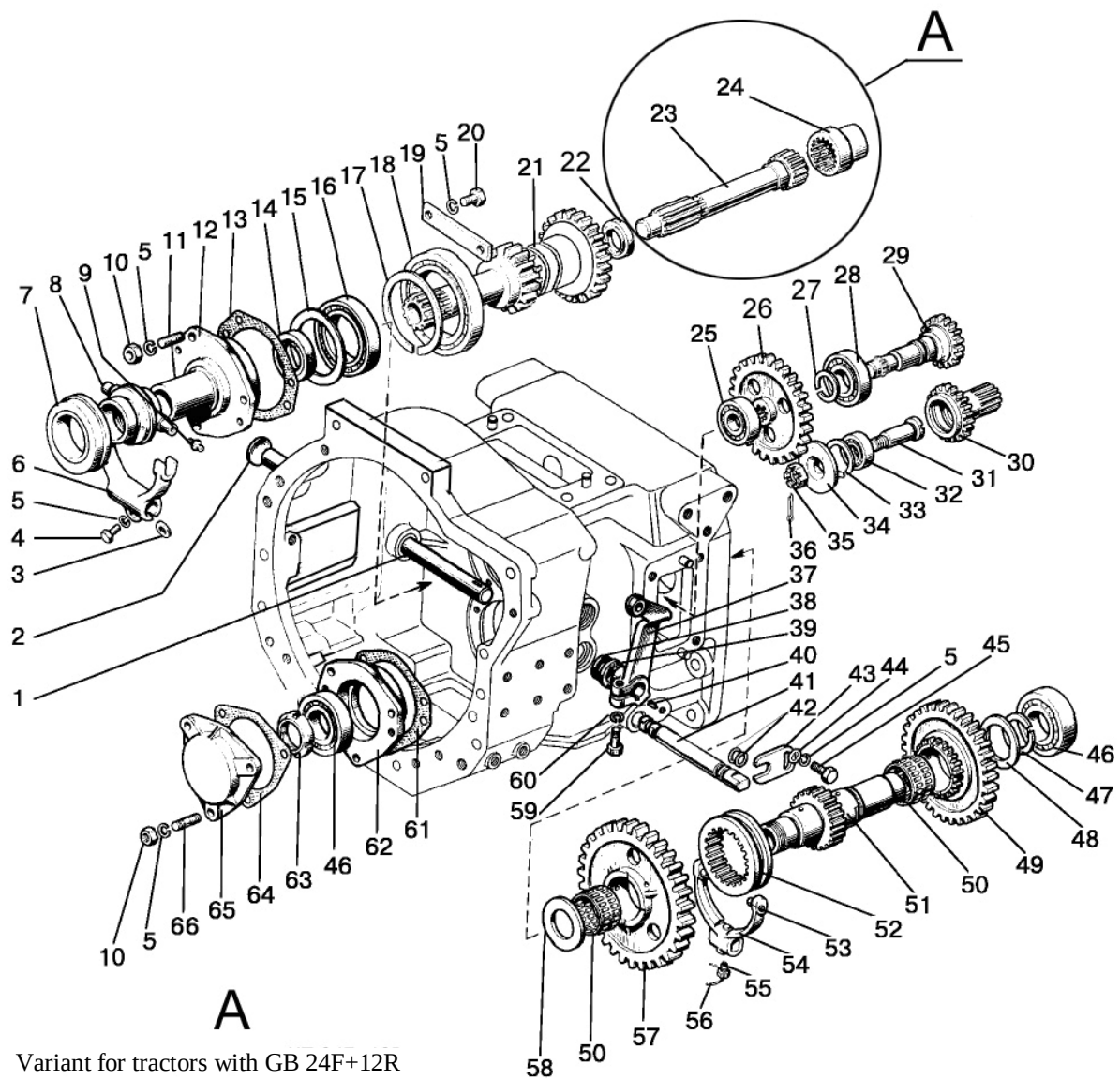


Fig.16.3 Clutch housing

Group 16. Clutch
Subgroup 1601. Clutch housing

Fig.	Pos.	Designation	Q-ty	Description
16.3	29	80-1601071-B	1	Gear shaft
	30	80-1601182	1	Gear
	31	80-1601181	1	Axle
	32		1	Bearing 204A GOST 8338-75
	33		1	Ring S47 GOST 13943-86
	34	80-1601356	1	Thrust washer
	35	70-3003032	1	Nut
	36		1	Split pin 3,2h25.019 GOST 397-79
	37	80-1601219-B	1	Lever
	38	80-4608024	1	Ring
	39	36-1601016	1	Housing
	40	SSH-611	1	Key 6x11
	41	85-1601111	1	Shaft
	42		2	Ring 020-025-30-1-4 GOST 18829-73/GOST 9833-73
	43	85-1601099	1	Plate
	44		1	Washer S 10.01.019 GOST 6958-78
	45		1	Bolt M10-6gh20.88.35.019 GOST 7796-70
	46		2	Bearing 209A GOST 8338-75
	47		1	Ring 2S50 GOST 13940-86
	48	80-1601083	1	Washer
	49	80-1601086-A	1	Gear
	50		2	Bearing KK 52h60h39 E (664910E) TU RB 00234873.003-99
	51	80-1601021	1	Shaft
	52	112-1701343	1	Clutch
	53	70-1601114	2	Dowel
	54	80-1601191	1	Fork
	55	50-4604046	1	Fork bolt
	56		1	Wire 1,0-O-S GOST 3282-74 (L=150 mm)
	57	80-1601088-A	1	Gear
	58	80-1601082	1	Washer
	59		1	Bolt M12-6gh35.88.35.019 GOST 7796-70
	60		1	Washer 12 OT OST 37.001.115-75
	61	80-1601091	1	Gasket
	62	80-1601041	1	Body
	63	80-1701045	1	Nut
	64	80-1601092	1	Gasket
	65	80-1601089	1	Cover
	66		3	Stud M10 3r/6gh35.66.019 GOST 22034-76

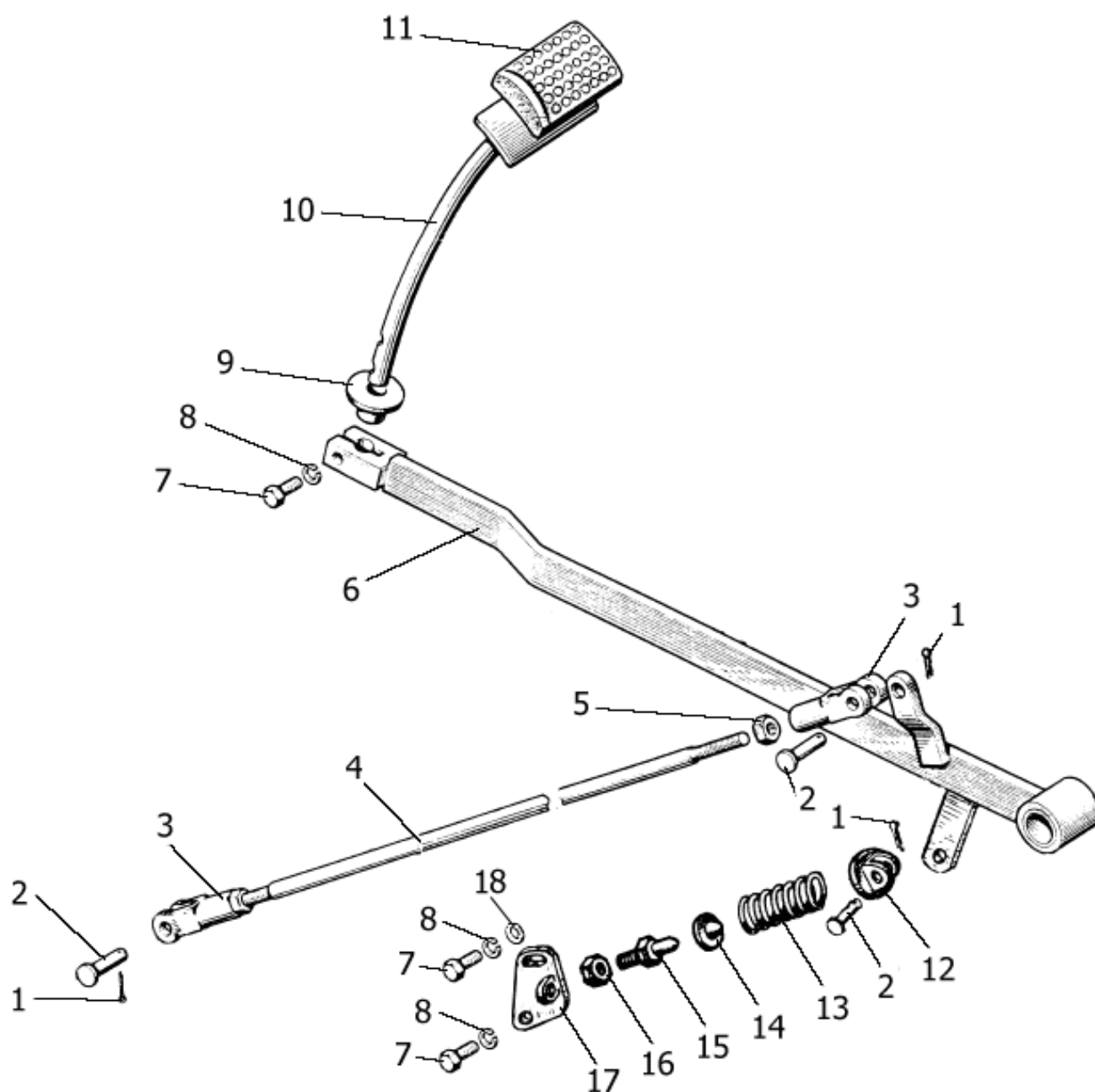


Fig. 16.4. Clutch control

Group 16. Clutch
Subgroup 1602. Clutch control

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
16.4		85-1602010		Clutch control
		85-1602010-01 ¹⁾		
		85-1602110	1	Rod (3, 4, 5)
	1		3	Split pin 3,2h18.019 GOST 397-79
	2		3	Pin 12h32 OST 37.001.163-97
	3	50-3502203	2	Fork
	4	85-1602112	1	Rod
	5		2	Nut M12h1,25-6N.04.019 GOST 5916-70
	6	85-1602020-B	1	Pedal
	7		3	Bolt M12-6gh30.88.35.019 GOST 7796-70
	8		3	Washer 12 OT OST 37.001.115-75
	9	80-3503158-A	1	Sealant
	10	80-1602040-B	1	Pedal rod
	11	A13.33.002	1	Cover
	12	50-1602027	1	Limit stop
	13	50-1602032	1	Spring
	14	50-1602029	1	Thrust washer
	15	80-1602033	1	Stop bolt
		80-1602033-01 ¹⁾		
	16		1	Nut M16-6N.04.019 GOST 5916-70
	17	1221-1602075	1	Bracket
		50-1602034-B1 ¹⁾		
	18		1	Washer C12.01.019 GOST 11371-78
¹⁾ Variant with creeper				

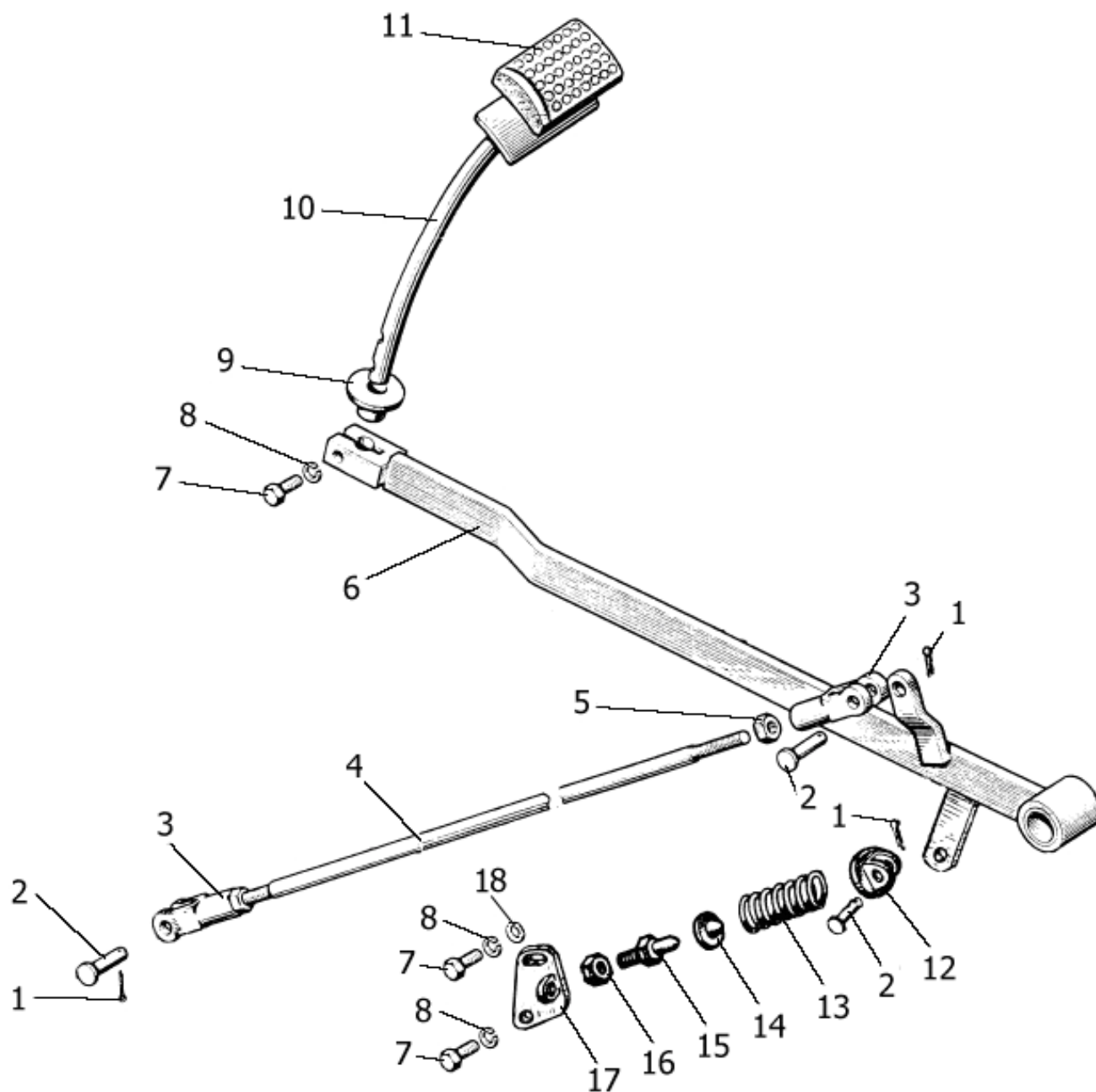


Fig. 16.5 Clutch control

Group 16. Clutch
Subgroup 1602. Clutch control

Fig.	Pos.	Designation	Q-ty	Description
16.5		85-1602010		Clutch control
		85-1602110	1	Rod (3, 4, 5)
	1		3	Split pin 3,2h18.019 GOST 397-79
	2		3	Pin 12h32 OST 37.001.163-97
	3	50-3502203	2	Fork
	4	85-1602112	1	Rod
	5		2	Nut M12h1,25-6N.04.019 GOST 5916-70
	6	85-1602020-B	1	Pedal
	7		3	Bolt M12-6gh30.88.35.019 GOST 7796-70
	8		3	Washer 12 OT OST 37.001.115-75
	9	80-3503158-A	1	Sealant
	10	80-1602040-B	1	Pedal rod
	11	A13.33.002	1	Cover
	12	50-1602027	1	Limit stop
	13	50-1602032	1	Spring
	14	50-1602029	1	Thrust washer
	15	80-1602033 80-1602033-01 ¹⁾	1	Stop bolt
	16		1	Nut M16-6N.04.019 GOST 5916-70
	17	1221-1602075 50-1602034-B1 ¹⁾	1	Bracket
	18		1	Washer C12.01.019 GOST 11371-78

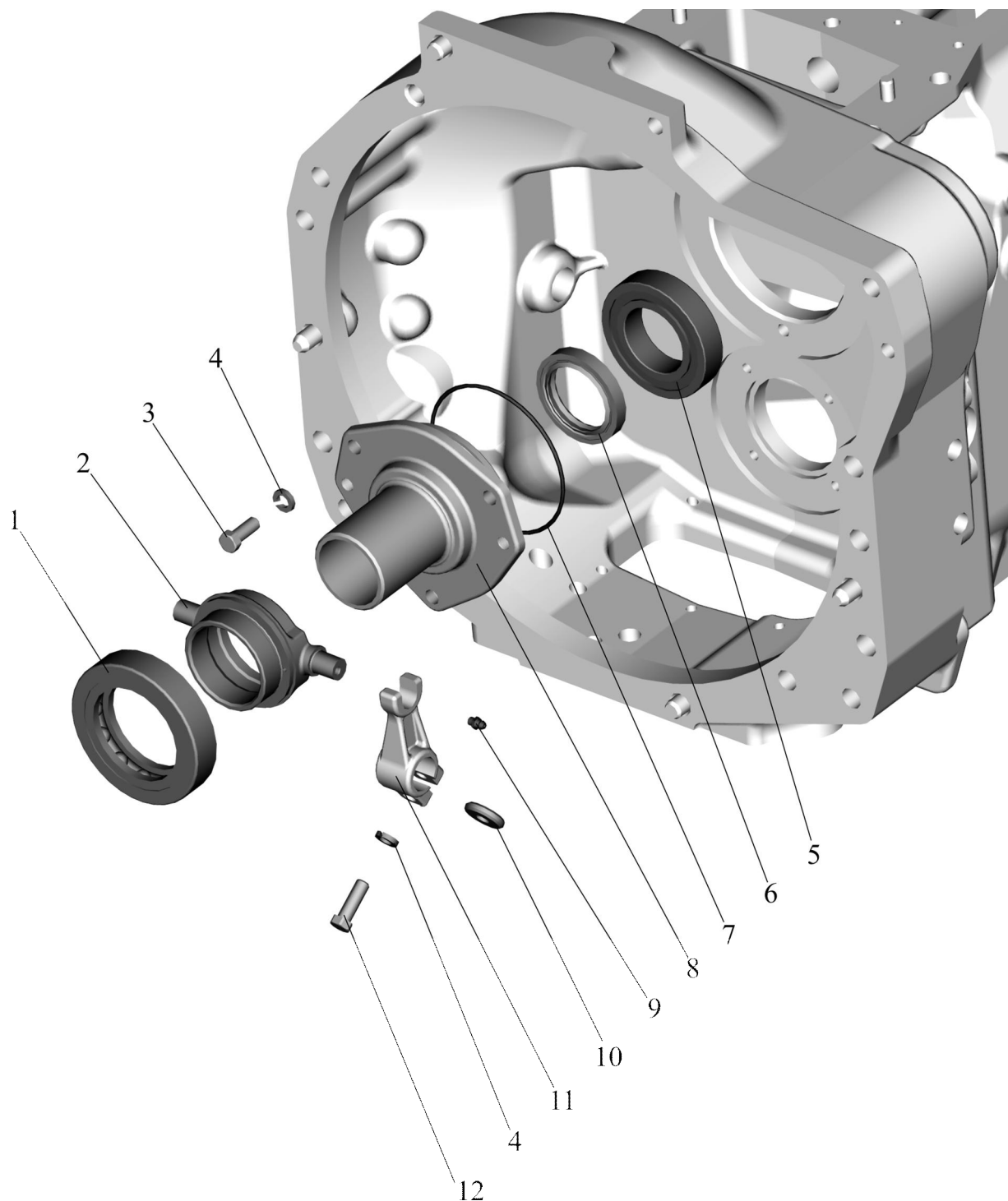


Fig.16.6 Clutch housing. Release yoke.

Group 16. Clutch
Subgroup 1601. Clutch housing. Release yoke.

Fig.	Pos.	Designation	Q-ty	Description
16.6		50-1601180-A	1	Release yoke (includes pos. 1,2,9)
	1	986714K1S23	1	Bearing
	2	50-1601185-A	1	Release yoke
	3		3	Bolt M10-6gh25.88.35.019 GOST 7796-70
	4		5	Washer 10 OT OST 37.001.115-75
	5		1	Bearing 60210 AUSH1 GOST 7242-81
	6	240-1002055	1	Collar (included into pos. 8)
	7		1	Ring 110-115-30-1-4 GOST 18829-73/9833-73
	8	50-1601172-A	1	Release yoke bracket (includes pos. 6)
	9		1	Oiler 1.1.TS9.hr GOST 19853-74
	10	50-1601218	2	Key
	11	50-1601203	2	Fork
	12		2	Bolt M10-6gh30.88.35.019 GOST 7796-70

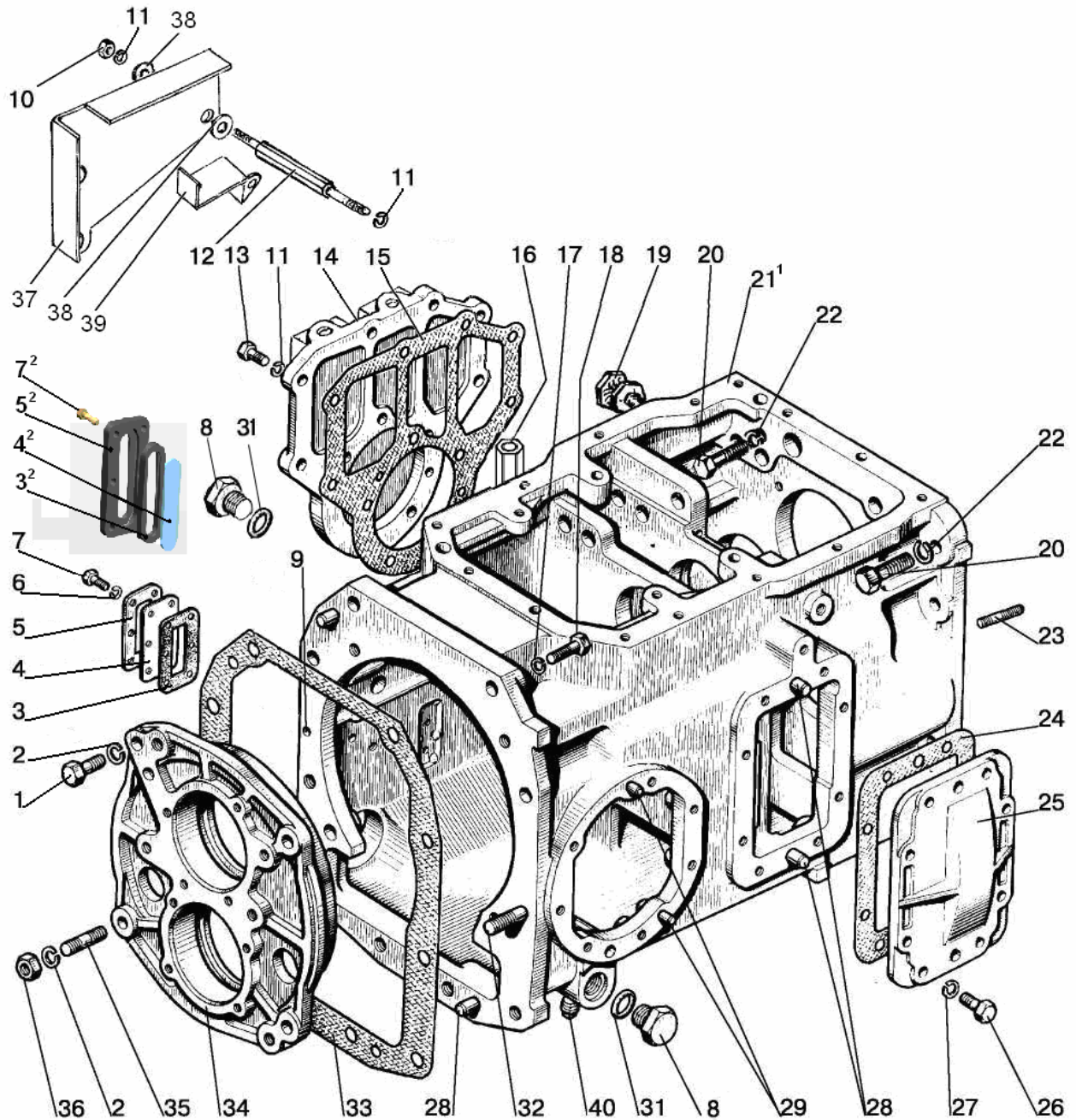


Fig. 17.1. Gearbox 112-1700010-A (16F+8R)

Group 17. Gearbox
Subgroup 1701. Gearbox (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.1		112-1700010-A-10/-11/-02/-04		Gearbox
	1		3	Bolt M16-6gh45.88.35.019 GOST 7796-70
	2		4	Washer 16 OT OST 37.001.115-75
	3	85-4608086-A	1	Gasket
	3 ²⁾	85-4608086-B	1	Sealant
	4	85-4608087	1	Pointer
	4 ²⁾	85-4608087-B	1	Pointer
	5	85-4608088	1	Plate
	5 ²⁾	85-4608088-B	1	Housing
	6		6	Washer 6T OST 37.001.115-75
	7		6	Bolt M6-6gh16.88.35.019 GOST 7798-70
	7 ²⁾		6	Bolt M6h20 DIN EN 1665-98
	8	80-4608021	2	Blind plug
	9		1	Ball 10,0-60 GOST 3722-81
	10		3	Nut M10-6N.6.019 GOST 5915-70
	11		12	Washer 10 OT OST 37.001.115-75
	12	1221-1802094	3	Stud
	13		6	Bolt M10-6gh35.88.35.019 GOST 7796-70
	14	1221-1802016	1	Cover
	15	80-1701399-B	1	Gasket
	16	1221-1737099	1	Fitting
	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 M18-6gh55.88.35.019 GOST 7796-70
	21 ¹⁾	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	70-1701454-A2-01	1	Cover
	26		7	Bolt M12-6gh30.88.35.019 GOST 7796-70
	27		7	Washer 12 OT OST 37.001.115-75
	28	D01-015	4	Dowel
	29	SHTSK10h25	2	Dowel
	31		2	Ring 027-032-30-1-4 GOST 18829-73/GOST 9833-73
	32	80-1701252	1	Stud
	33	80-1701026	1	Gasket
	34	80-1701034-01	1	Body
	35	80-1701204	1	Stud
	36		1	Nut M16-6N.6.019 GOST 5915-70
	37	1221-1802093	1	Shield
	38		6	Washer S 10.01.019 GOST 11371-78
	39	1221-1802089-A	1	Clip
	40	PK KG 3/8"	1	Plug

¹⁾ When ordered as spare part shall be ordered housing 80-1701025-B.

²⁾ Is mounted on gearbox since year 2010.

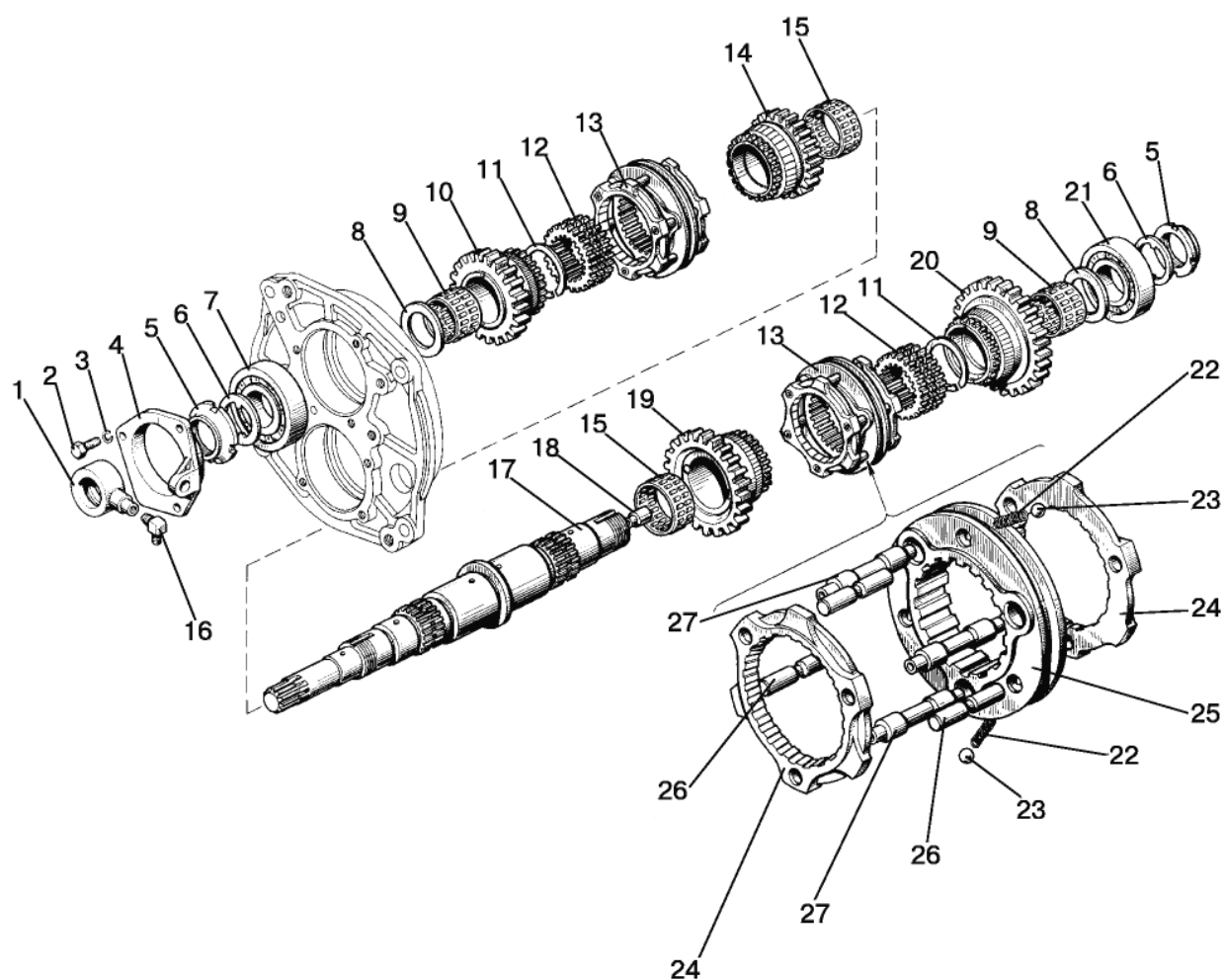


Fig. 17.2. Primary shaft

Group 17. Gearbox
Subgroup 1701. Primary shaft (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.2		1221M-1701020-A	1	Gear unit (1-21, 1221M-1701190-B; 80S-1701040)
		80C-1701060-A	2	Synchronizer (22-28)
	1	80C-1701036	1	Bushing
	2		3	Bolt M12-6gh30.88.35.019 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	664910E	2	Bearing
	10	1522C-1701048	1	Gear
	11		2	Ring 2S60 GOST 13940-86
	12	80C-1701033	2	Bushing
	13	80C-1701060-A	2	Synchronizer
	14	1521-1701042	1	Gear
	15		2	Bearing 664913E
	16	86-1802088	1	Angle piece
	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	80S-1701062-B	2	Ring
	25	80S-1701064-B	1	Cluster gear
	26	80C-1701061	3	Pin
	27	80S-1701063-B	6	Pin

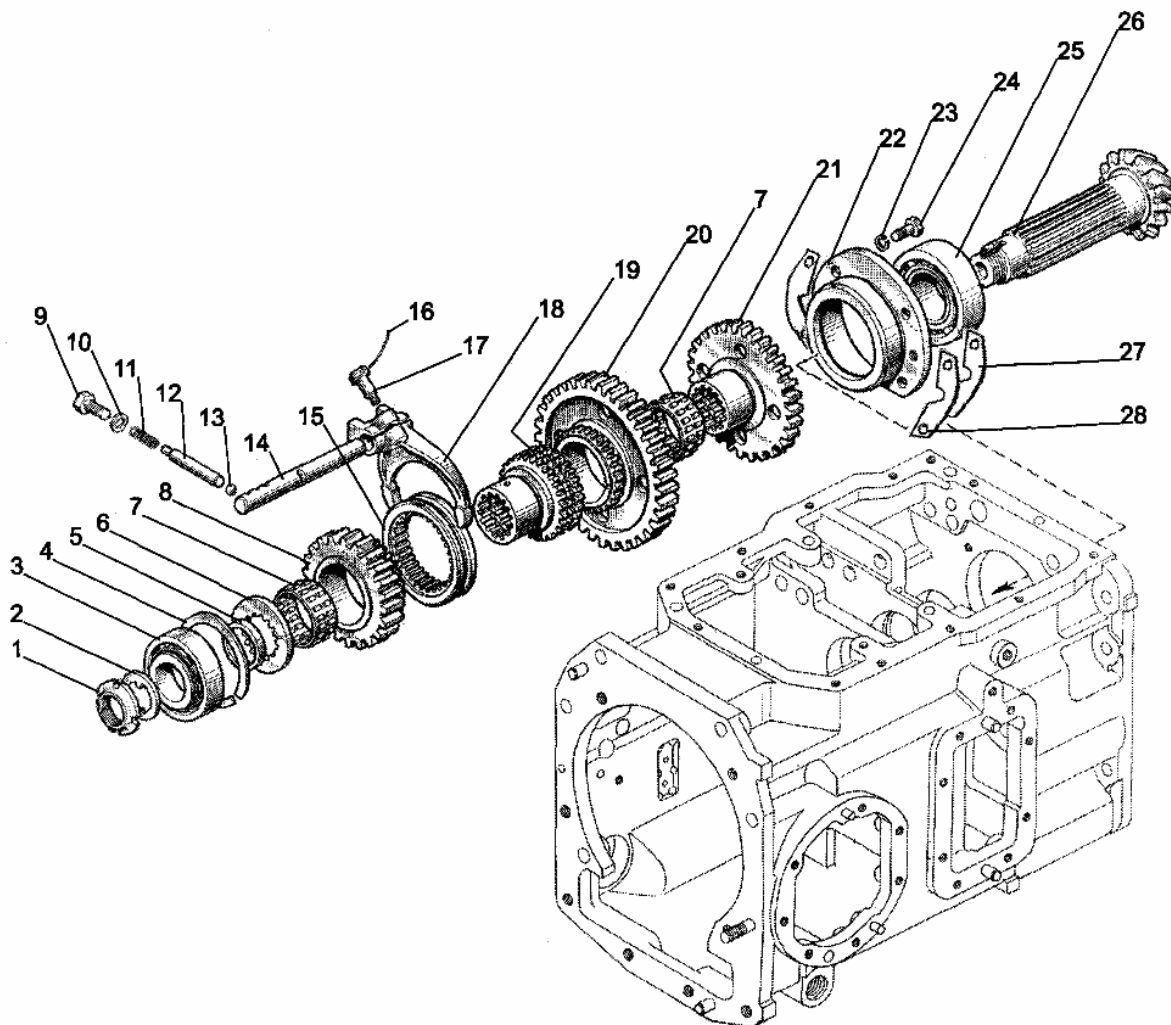


Fig. 17.3. Secondary shaft

Group 17. Gearbox
Subgroup 1701. Secondary shaft (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.3	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 M12-6gh25.88.35.019 GOST 7796-70
	10	85-1702051	1	Washer
	11	50-1702148-A	1	Spring
	12	85-1702048	1	Dowel
	13		1	Ball 10,0-60 GOST 3722-81
	14	85-1702037-B	1	Carrier
	15	112-1701316	1	Clutch
	16		1	Wire 1,6-O-S GOST 3282-74
	17	80-1702108	1	Bolt
	18	85-1702029-B	1	Fork
	19	80-1701348	1	Bushing
	20	112-1701312	1	Gear
	21	80-1701313-B	1	Gear
	22	80-1701141-B	1	Body
	23		4	Washer 10 OT OST 37.001.115-75
	24		4	Bolt M10-6gh30.88.35.019 GOST 7796-70
	25		1	Bearing 7712A GOST 27365-87
	26	80-1701252-V ¹⁾	1	Gear shaft
	27	50-1701258	1-6	Gasket
	28	50-1701259	1-4	Gasket

¹⁾ Is supplied together with driven gear 50-2403021-V (set 85-2403014-V «Gears of main gear»). Untill August 2012 was mounted shaft 80-1701252-B.

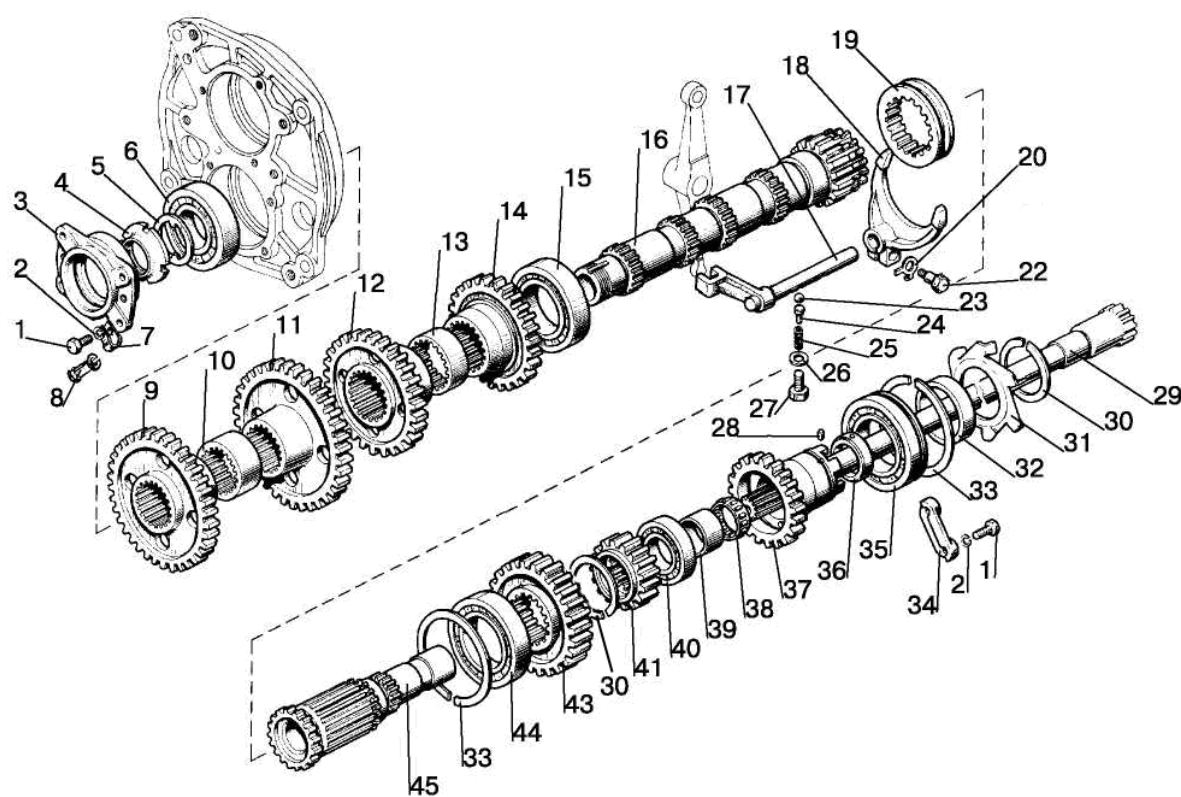


Fig. 17.4. Intermediate shaft

Group 17. Gearbox
Subgroup 1701. Intermediate shaft (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.4		1221M-1701190-B	1	Intermediate shaft (9-16)
		112-1701200	1	Gear (28, 30-33, 35-40)
		112-1701230	1	Gear (28, 36, 37)
	1		8	Bolt M10-6gh30.88.35.019 GOST 7796-70
	2		8	Washer 10 OT OST 37.001.115-75
	3	80-1701151	1	Body
	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 3514N GOST 5721-75
	16	80-1701182	1	Intermediate shaft
	17	85-1702038	1	Carrier
	18	85-1702034	1	Fork
	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 M12-6gh55.88.35.019 GOST 7795-70
	28		1	Dowel 2.4h8 GOST 3128-70
	29	80-1701160	1	Shaft
	30		2	Ring 2S75 GOST 13940-86
	31	50-1701401	1	Impeller
	32	80-1701207	1	Bushing
	33	80-1701206	2	Ring
	34	80-1701205	2	Strip
	35		1	Bearing 50215A 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

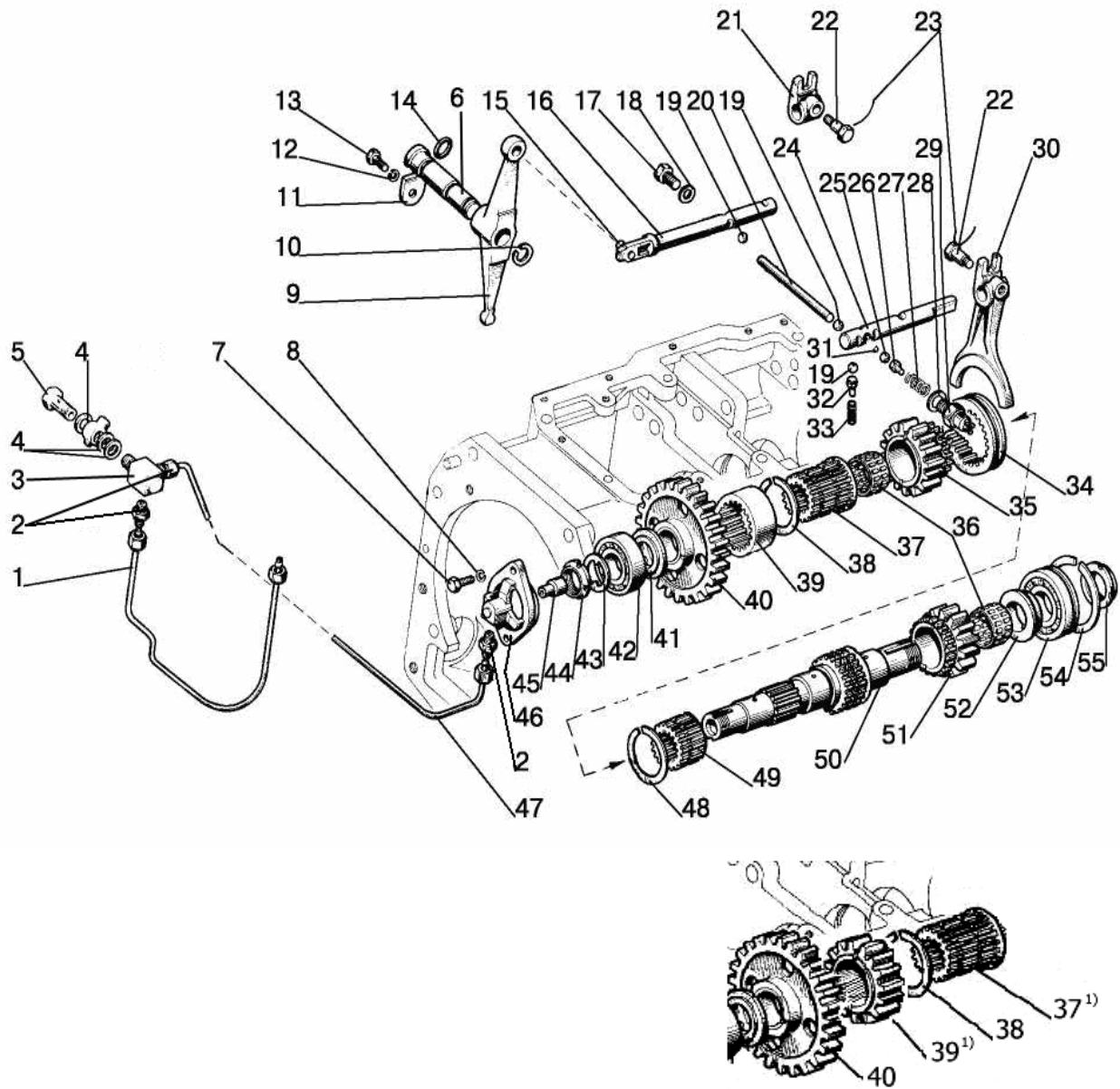


Fig. 17.5. Low gears shaft

Group 17. Gearbox
Subgroup 1701. Low gears shaft (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.5		75-1701320	1	Shaft (35, 37, 49, 51,52)
	1	80-1701430	1	Pipe
	2	80-1701549	3	Fitting
	3	80-1701057	1	Fitting
	4	D18-055-A	3	O-Ring
	5	240-1111103	1	Bolt
	6	85-1702042	1	Axle
	7		2	Bolt M8-6gh20.88.35.019 GOST 7796-70
	8		2	Washer 8T OST 37.001.115-75
	9	85-1702041	1	Rocker arm
	10		1	Ring S25 GOST 13940-86
	11	85-1702043	1	Plate
	12		1	Washer 10 OT OST 37.001.115-75
	13		1	Bolt M10-6gh20.88.35.019 GOST 7796-70
	14		1	026-030-25-2-2 GOST 18829-73/9833-73
	15	85-1702049	1	Pin
	16	85-1702039	1	Carrier
	17		1	Bolt M12-6gh25.88.35.019 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	Carrier
	22	80-1702108	2	Bolt
	23		2	Wire 1,6-O-S GOST 3282-74
	24	85-1702035	1	Carrier
	25		1	Ball 12,7-60 GOST 3722-81
	26	85-1702305	1	Dowel
	27	12-23-668-A	1	Spring
	28	50-1702048	10	Shim washer
	29	BK12-41	1	Switch
	30	85-1702027	1	Fork
	31	85-1702301	1	Axle
	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 ¹⁾	80-1701346-01	1	Bushing

¹⁾ For tractor with possibility of creeper mounting (variant of GB -02/-04)

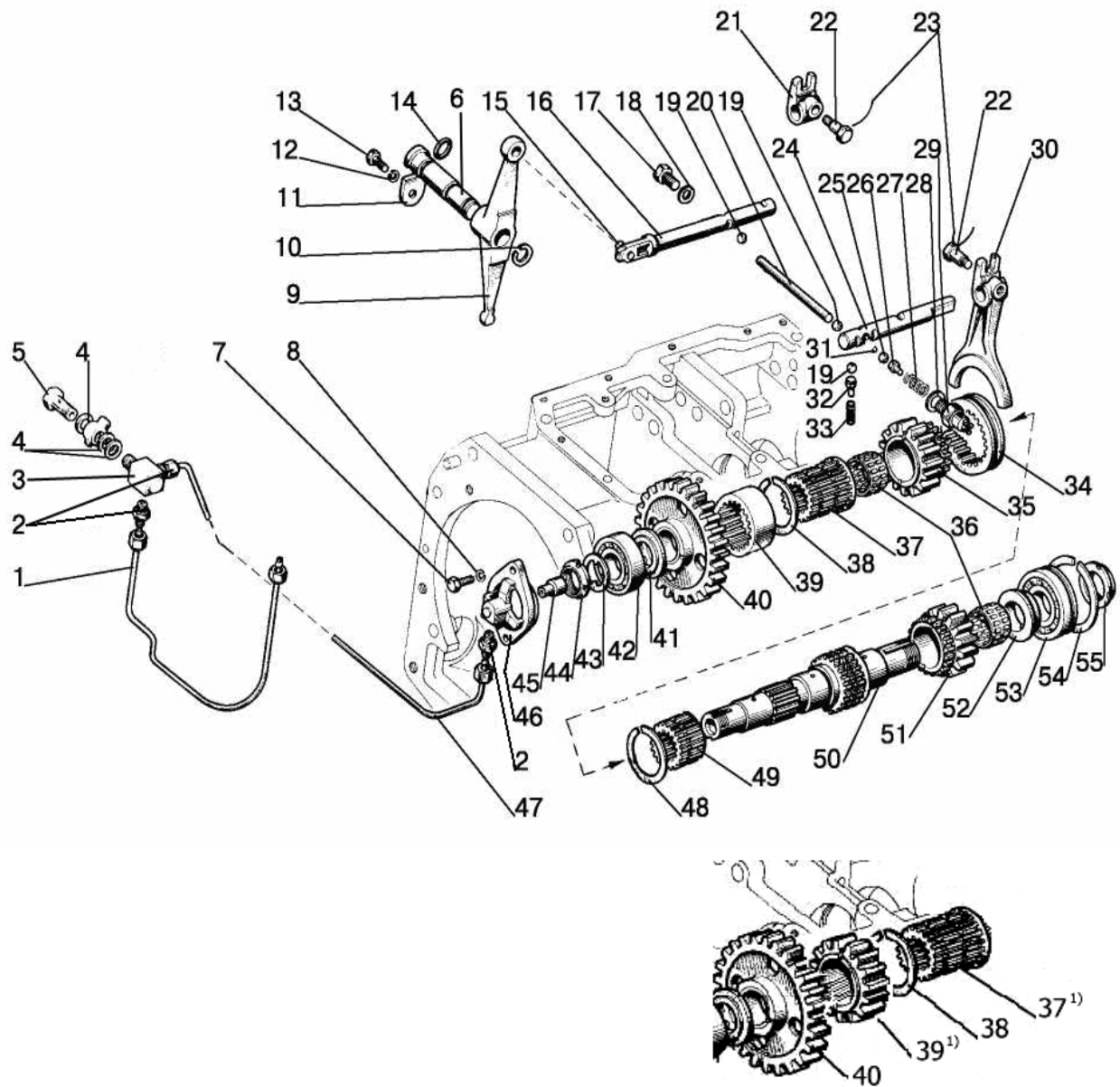


Fig. 17.5. Low gears shaft

Group 17. Gearbox
Subgroup 1701. Low gears shaft (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.5	38		1	Ring 2S70 GOST 13940-86
	39	1222-1701344	1	Bushing
	39 ¹⁾	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	Body
	47	80-1701420	1	Pipe
	48	54-31-472	1	Spring ring
	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
¹⁾ For tractor with possibility of creeper mounting (variant of GB -02/-04)				

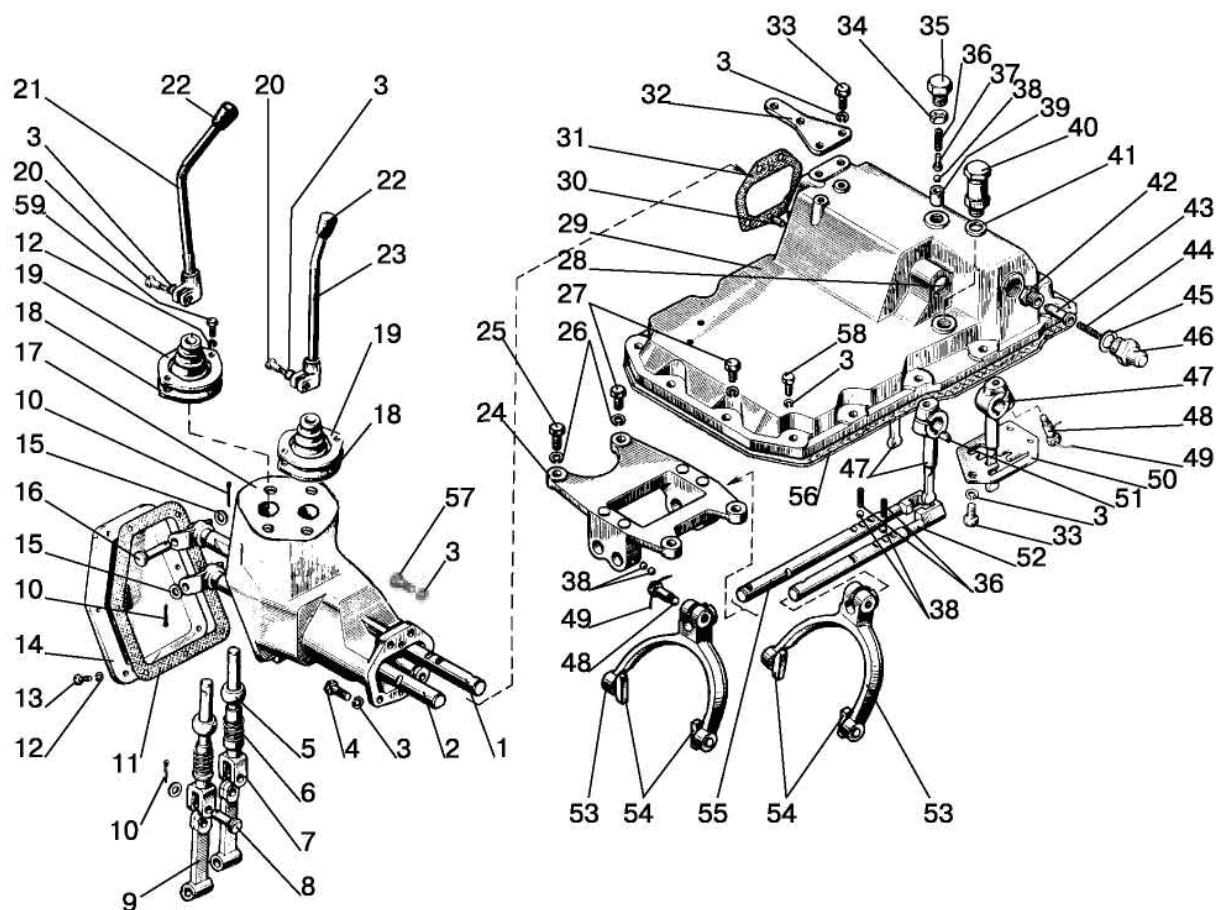
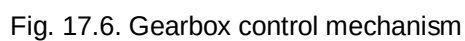


Fig. 17.6. Gearbox control mechanism

Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.6		80-1702010-02/-05	1	Control mechanism (1-20, 27, 28, 29-50)
		80C-1702080	1	Housing (80S-1702090-B, 24, 38, 48, 49, 52, 55, 56)
		80S-1702090-B	2	Fork (53, 54)
		80C-1702300	1	Limiter (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 M10-6gh35.88.35.019 GOST 7796-70
	5	142-1702032	2	Sphere
	6	77.37.117	2	Spring
	7	80C-1702074	2	Fork
	8		2	Pin 12h32 OST 37.001.163-75
	9	80C-1702073	2	Lever
	10		4	Split pin 3,2h18.019 GOST 397-79
	11	80-1702068	1	Gasket
	12		11	Washer 6T OST 37.001.115-75
	13		7	Bolt M6-6gh16.88.35.019 GOST 7798-70
	14	80-1702067	1	Cover
	15	85-4619014	2	Washer
	16		2	Pin 12h55 OST 37.001.163-75
	17	80-1702078-A	1	Housing
	18	55-47-569-A	2	Cover
	19	80C-1702075	2	Washer
	20		2	Bolt M10-6gh30.88.35.019 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 M12-6gh35.88.35.019 GOST 7796-70
	26		6	Washer 12 OT OST 37.001.115-75
	27	50-1702092	4	Bolt
	28		1	Blind plug 28-10kp.TS9.hr GOST 3111-81
	29	1221-1702025 1221-1702025-01 ¹⁾	1	Cover
	30		2	Dowel 8h16 GOST 3128-70
	31	80C-1702066	1	Gasket
	32	85-3503046	1	Bracket
	33		5	Bolt M10-6gh25.88.35.019 GOST 7796-70
	34		1	Nut M16-6N.04.019 GOST 5916-70
	35	70-1703204	1	Bolt

¹⁾ For GB variants -02/-11



Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism (16F+8R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.6	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	Locking pin
	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-S GOST 3282-74
	50	75-1702052-A	1	Gate
	51		3	Key 6h10 GOST 24071-97
	52	80C-1702083	1	Carrier
	53	80C-1702091-B	2	Fork
	54	80C-1702092	4	Holder
	55	80C-1702082	1	Carrier
	56	85-1702026	1	Gasket
	57		2	Bolt M10-6gh40.88.35.019 GOST 7796-70
	58		12	Bolt M10-6gh35.88.35.019 GOST 7796-70
	59		4	Bolt M6-6gh20.88.35.019 GOST 7798-70

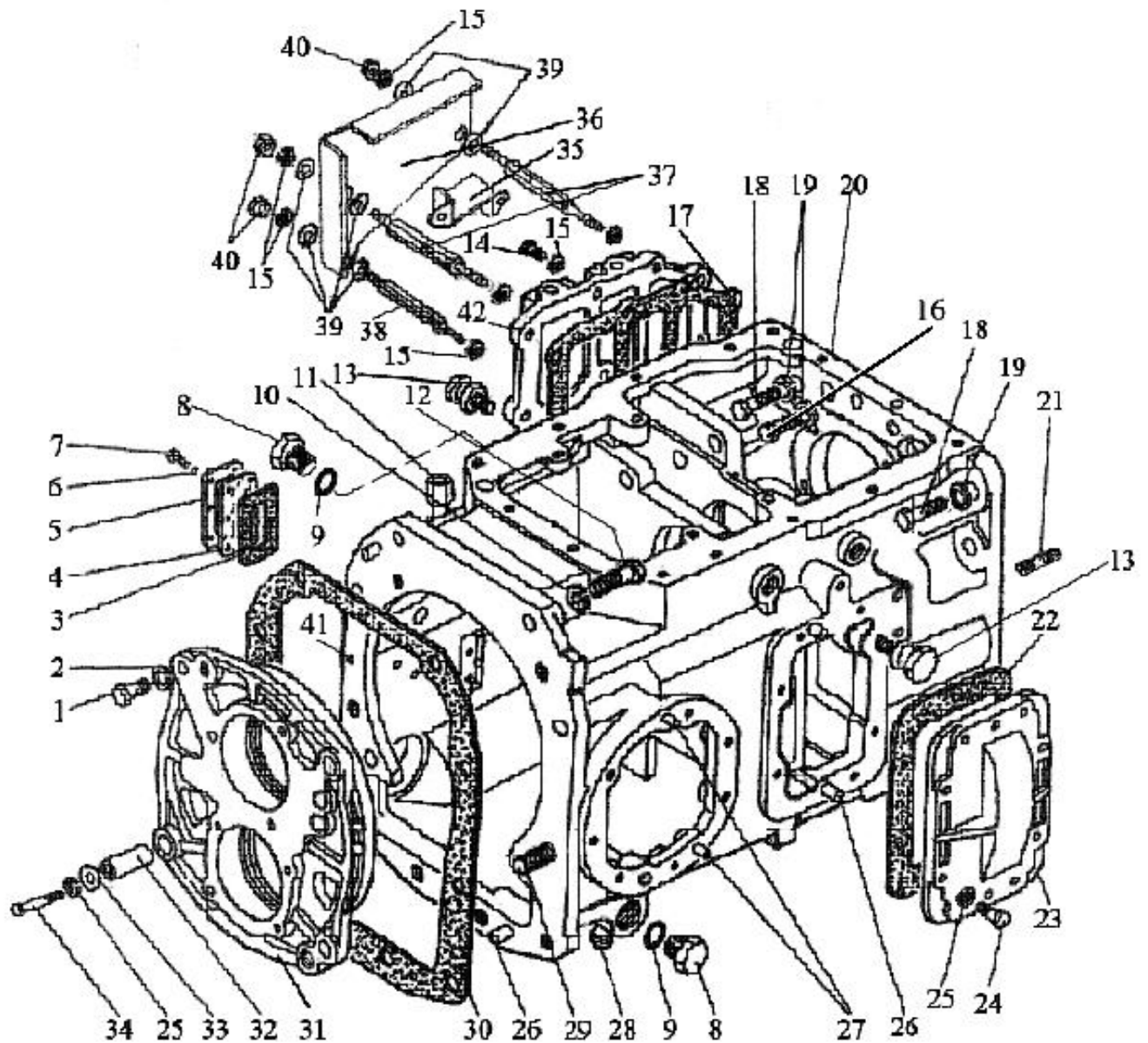


Fig. 17.7 Gearbox 1222-1700010-02/-05 (24F+12R)

Group 17. Gearbox
Subgroup 1701. Gearbox (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.7		1222-1700010-02	1	Gearbox
		1222-1700010-05 ¹⁾		
	1		2	Bolt M16-6gh45.88.35.019 GOST 7796-70
	2		2	Washer 16 OT OST 37.001.115-75
	3	85-4608086-A	1	Gasket
	4	85-4608087	1	Pointer
	5	85-4608088	1	Plate
	6		6	Washer 6T OST 37.001.115-75
	7		6	Bolt M6-6gh16.88.35.019 GOST 7798-70
	8	80-4608021	2	Blind plug (M30)
	9		2	Ring 027-032-30-1-4 GOST 18829-73/GOST 9833-73
	10		4	Washer 20 OT OST 37.001.115-75
	11	1221-1737099	1	Fitting
	12	70-4605036	4	Bolt (M20h60)
	13	50-1002318-B	2	Eye bolt (M16)
	14		6	Bolt M10-6gh35.88.35.019 GOST 7796-70
	15		12	Washer 10 OT OST 37.001.115-75
	16	1221-2401011-02	1	Bolt (M18h50)
	17	80-1701399-B	1	Gasket
	18	1221-2401011-01	8	Bolt (M18h60)
	19		9	Washer 18 OT OST 37.001.115-75
	20	1222-1701025	1	Housing
	21	112-1701524	2	Stud M18 3r/6gh45.66.019 GOST 22034-76
	22	50-1701456-A	1	Gasket
	23	70-1701454-A2-01	1	Cover
	24		7	Bolt M12-6gh30.88.35.019 GOST 7796-70
	25		9	Washer 12 OT OST 37.001.115-75
	26	D01-015	4	Dowel pin
	27	SHTSK 10x25	4	Dowel
	28	PK KG 3/8"	1	Plug
	29	80-1701525	1	Stud M20 3r/6gh65.66.019 GOST 22034-76
	30	80-1701026	1	Gasket
	31	1222-1701034	1	Body
	32	1222-1701071	2	Dowel
	33	1222-1701072	2	Washer
	34		2	Bolt M12-6gh60.88.35.019 GOST 7796-70
	35	1221-1802089-A	1	Clip
	36	1221-1802093	1	Splash plate
	37	1221-1802094	2	Stud
	38	1221-1802094-01	1	Stud
	39		6	Washer S 10.01.019 GOST 11371-78
	40		3	Nut M10-6N.6.019 GOST 5915-70
	41		1	Ball 10,0-60 GOST 3722-81
	42	1221-1802016	1	Cover

¹⁾ Variant with creeper

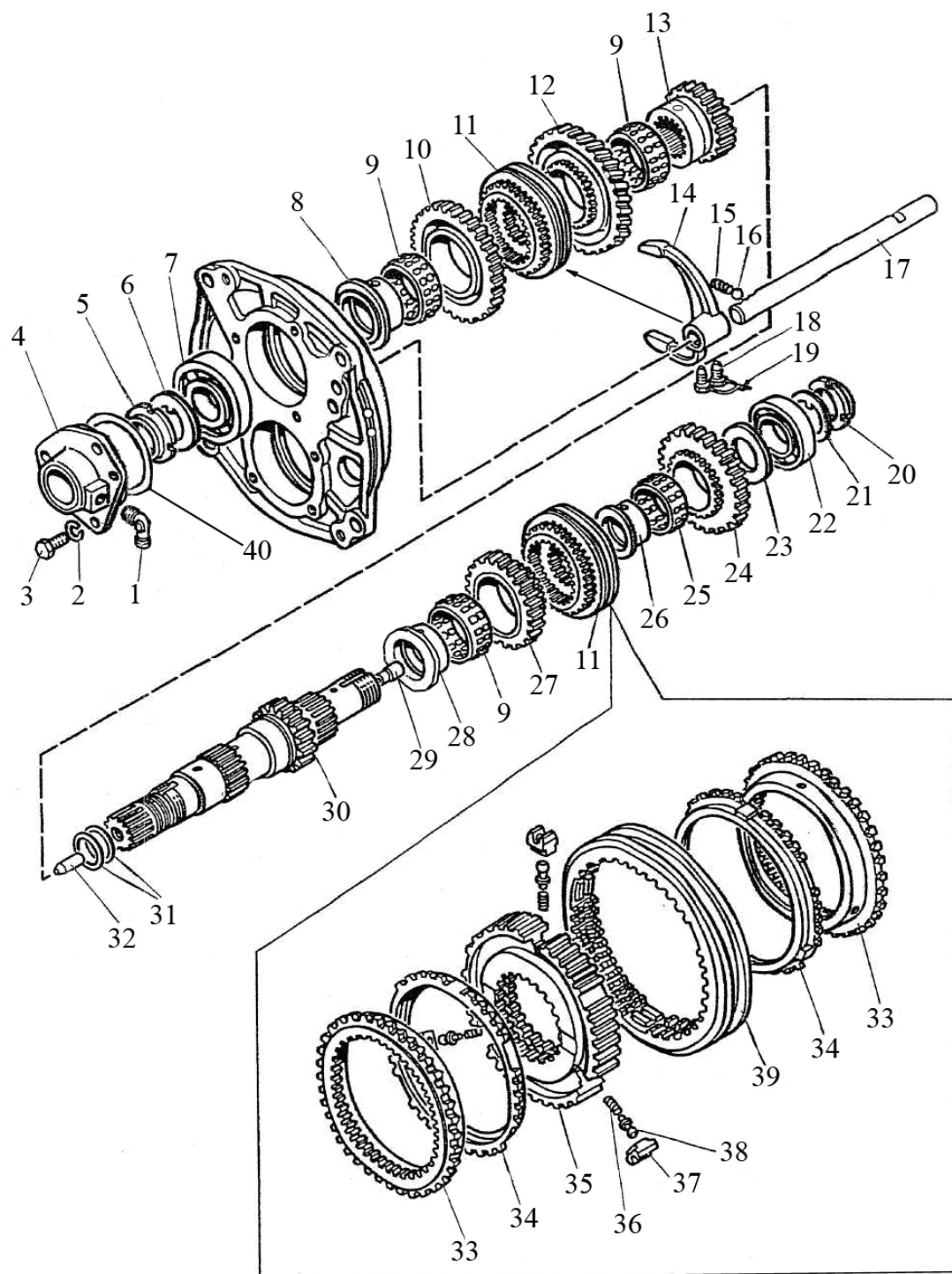


Fig. 17.8 Primary shaft

Group 17. Gearbox
Subgroup 1701. Gearbox. Primary shaft (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.8	1	86-1802088	1	Angle piece
	2		3	Washer 12 OT OST 37.001.115-75
	3		3	Bolt M12-6gh30.88.35.019 GOST 7796-70
	4	1222-1701030	1	Body
	5	80-1701047	1	Nut
	6	80-1701186	1	Washer
	7	311 A GOST 8338-75 or 6-311 ASH1 GOST 8338-75	1	Bearing
	8	1222-1701043	1	Bushing
	9		3	Bearing 3KK 78h89h38 E TU RB 00234873.003-99
	10	1222-1701052	1	Gear
	11	GT-C 114; 3.53685.3 or 1222-1701400 ¹⁾	2	Synchronizer
	12	1222K-1701054	1	Gear
	13	1222-1701044	1	Gear
	14	1222-1702088	1	Fork
	15	50-1702148-A	1	Spring
	16		1	Ball 10,0-60 GOST 3722-81
	17	1222-1702082	1	Carrier
	18	220-1702061	2	Bolt
	19		1	Wire 1,6-O-S GOST 3282-74 (200 mm)
	20	80-1701045	1	Nut
	21	80-1701056	1	Washer
	22	309 K GOST 8338-75	1	Bearing
	23	1222-1701049	1	Washer
	24	1222-1701048	1	Gear
	25		1	Bearing KK 62h70h31 E (664913E) TU RB 00234873.003-99
	26	1222-1701047	1	Bushing
	27	1222-1701042	1	Gear
	28	1523-1701046	1	Bushing
	29	80-1701053	1	Throttle
	30	1523-1701032	1	Gear shaft
	31	2522-1802083	2	O-Ring
	32	50-1601352	1	Dowel pin
	33	1222-1701393 ¹⁾	2	Taper collar
	34	1222-1701390 ¹⁾	2	Lock ring
	35	1222-1701392 ¹⁾	1	Cluster gear
	36	1222-1701396 ¹⁾	3	Spring
	37	1222-1701397 ¹⁾	3	Pusher
	38	1222-1701398 ¹⁾	3	Locking pin
	39	1222-1701394 ¹⁾	1	Clutch
	40	1222-1701033	0-3	Washer

¹⁾ For synchronizer 1222-1701400

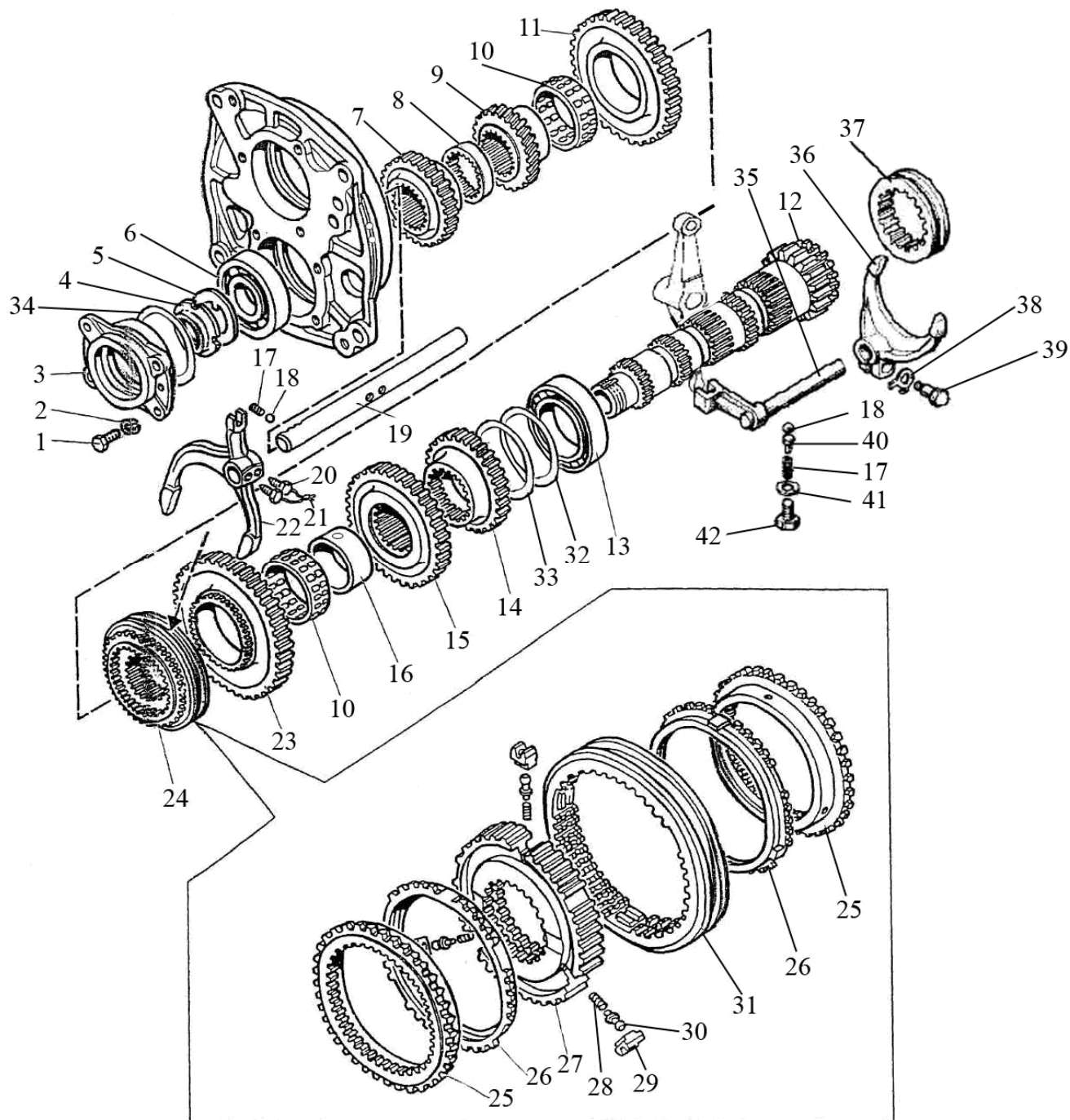
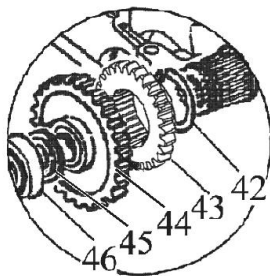
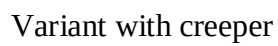


Fig. 17.9 Intermediate shaft

Group 17. Gearbox
Subgroup 1701. Gearbox. Intermediate shaft (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.9		1222-1701190-A	1	Intermediate shaft (7-16, 23, 24, 32, 33)
	1		4	Bolt M10-6gh30.88.35.019 GOST 7796-70
	2		4	Washer 10 OT OST 37.001.115-75
	3	80-1701151	1	Body
	4	80-1701047	1	Nut
	5	80-1701186	1	Washer
	6	311 A GOST 8338-75 or 6-311 ASH1 GOST 8338-75	1	Bearing
	7	1222-1701217	1	Gear
	8	1222-1701213	1	Bushing
	9	1222K-1701219-A	1	Gear
	10		2	Bearing 3KK 78h89h38 E TU RB 00234873.003-99
	11	1222-1701214-A	1	Gear
	12	1222-1701182-A	1	Gear shaft
	13	3514 N GOST 5721-75	1	Bearing
	14	1222-1701218	1	Gear
	15	1222-1701216	1	Gear
	16	1222-1701046-A	1	Bushing
	17	50-1702148-A	2	Spring
	18		2	Ball 10,0-60 GOST 3722-81
	19	1222-1702087	1	Carrier
	20	220-1702061	2	Bolt
	21		1	Wire 1,6-O-S GOST 3282-74 (200 mm)
	22	1222-1702089	1	Fork
	23	1523-1701212-A	1	Gear
	24	GT-C 114; 3.53685.3 or 1222-1701400 ¹⁾	1	Synchronizer
	25	1222-1701393 ¹⁾	2	Taper collar
	26	1222-1701390 ¹⁾	2	Lock ring
	27	1222-1701392 ¹⁾	1	Cluster gear
	28	1222-1701396 ¹⁾	3	Spring
	29	1222-1701397 ¹⁾	3	Pusher
	30	1222-1701398 ¹⁾	3	Detent
	31	1222-1701394 ¹⁾	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	Carrier
	36	85-1702034	1	Fork
	37	1520-1701184	1	Clutch
	38	80-1702311	1	Washer
	39	80-1702108	1	Bolt
	40	80-1704039	1	Guide
	41	85-1702051	1	Washer
	42		1	Bolt M12-6gh55.88.35.019 GOST 7795-70

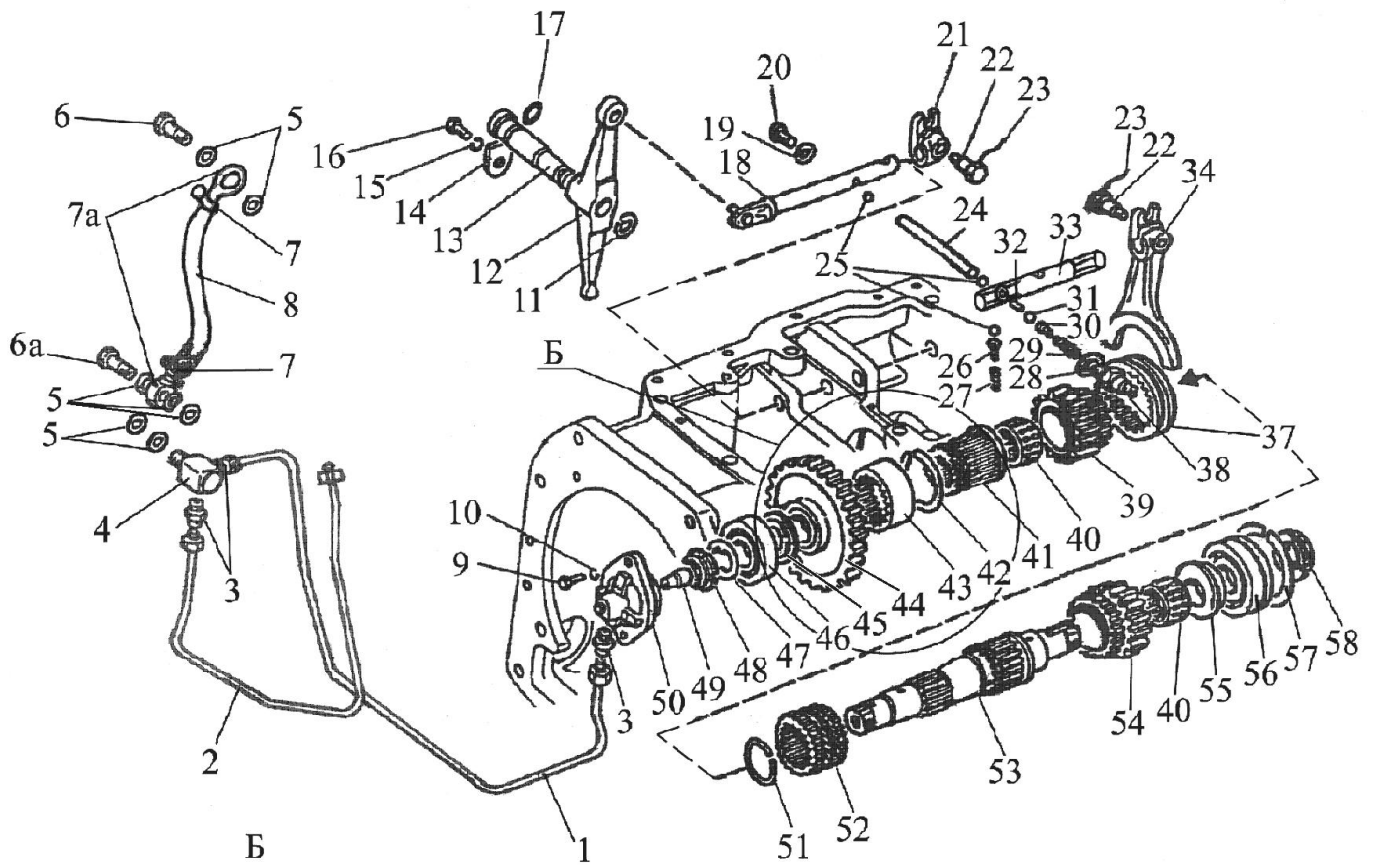
¹⁾ For synchronizer 1222-1701400



75

Group 17. Gearbox
Subgroup 1701. Gearbox. Low gears and reverse shaft (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.10		75-1701320	1	Shaft (40-1pcs., 53, 55-58)
		80-1701310	1	Cage (3-1pcs., 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	Fitting
	4	80-1701057	1	Fitting
	5	D18-055-A	7	O-Ring
	6	D18-051	1	Bolt
	6a	240-1111103	1	Bolt of swing angle piece
	7	12-22/971 or	2	Clamp/Clamp NORMA TORRO
		12-20/9-C6W		Clamp "NORMA" TORRO
	7a	F80-3407720	2	Oil pipeline
	8	1222-1702131-01	1	Hose (440 mm)
	9		2	Bolt M8-6gh20.88.35.019 GOST 7796-70
	10		2	Washer 8T OST 37.001.115-75
	11		1	Ring S25 GOST 13940-86
	12	85-1702041	1	Rocker arm
	13	85-1702042	1	Axle
	14	85-1702043	1	Plate
	15		1	Washer 10 OT OST 37.001.115-75
	16		1	Bolt M10-6gh20.88.35.019 GOST 7796-70
	17		1	Ring 026-030-25-2-2 GOST 18829-73/GOST 9833-73
	18	85-1702050	1	Carrier
	19	85-1702051	1	Washer
	20		1	Bolt M12-6gh25.88.35.019 GOST 7796-70
	21	85-1702045	1	Carrier
	22	80-1702108	2	Bolt
	23		2	Wire1,6-O-S GOST 3282-74 (200 mm)
	24	85-1702046	1	Pin
	25		3	Ball 10,0-60 GOST 3722-81
	26	80-1704039	1	Guide
	27	50-1702148-A	1	Spring
	28	50-1702048	0-5	Shim washer
	29	12-23-668-A	1	Spring
	30	85-1702305	1	Dowel
	31		1	Ball 12,7-60 GOST 3722-81
	32	85-1702301	1	Axle
	33	85-1702035	1	Carrier
	34	1222-1702027	1	Fork
	37	112-1701343	1	Clutch
	38	BK 12-41 TU RB 37334210.015-97	1	Switch
	39	1222-1701351	1	Gear
	40	KK 52h60h39 E (664910E) TU RB 00234873.003-99	2	Bearing
¹⁾ Variant with creeper				



В
Variant with creeper

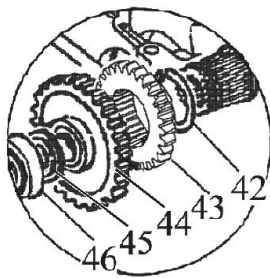


Fig. 17.10 Low gears and reverse shaft

Group 17. Gearbox
Subgroup 1701. Gearbox. Low gears and reverse shaft (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.10	41	80-1701346 or 80-1701346-01 ¹⁾	1	Bushing
	42		1	Ring 2S70 GOST 13940-86
	43	1222-1701344 or 1025-1701344 ¹⁾	1	Bushing
				Gear
	44	1520-1701340	1	Gear
	45	80-1701306	1	Washer
	46		1	Bearing 12507KM GOST 8328-75
	47	86-1802052	1	Washer
	48	52-2308097	1	Nut
	49	80-1701053	1	Throttle
	50	80-1701311-A	1	Body
	51	54-31-472	1	Spring ring
	52	75-1701352	1	Bushing
	53	75-1701335	1	Shaft
	54	1222-1701361	1	Gear
	55	80-1701339	1	Bushing
	56		1	Bearing 692309 KM GOST 8328-75
	57	80-1701396	1	Ring
	58	80-1701045	1	Nut
¹⁾ Variant with creeper				

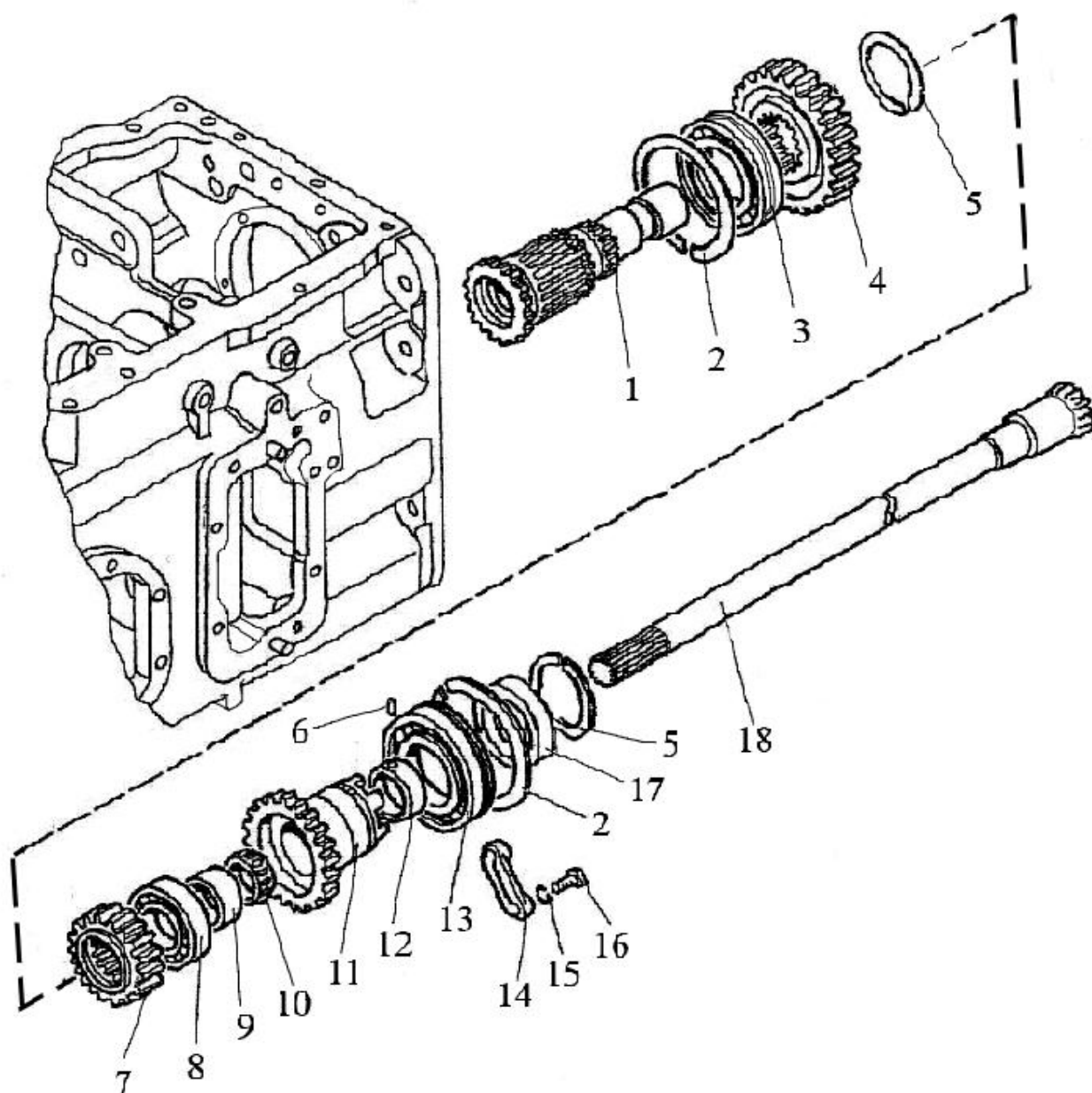


Fig. 17.11 Gear train shaft

BELARUS
1221.5

Group 17. Gearbox
Subgroup 1701. Gearbox. Gear train shaft (24F+12R)

Fig.	Pos.N o	Assembly unit or part number	Q-ty	Description
17.11		112-1701200	1	Gear (112-1701230, 2-1 pcs., 5-1 pcs., 8-10, 13, 17)
		112-1701230	1	Gear (6, 11, 12)
	1	80-1701240	1	Shaft
	2	80-1701206	2	Ring
	3		1	Bearing 692215 K1M GOST 8328-75
	4	1222-1701221	1	Gear
	5		2	Ring 2S75 GOST 13940-86
	6	2.4h8 GOST 3128-70	1	Dowel 2.4h8 GOST 3128-70
	7	1222-1701224	1	Gear
	8		1	Bearing 42210 M GOST 8328-75
	9	80-1701203	1	Bushing
	10		1	Bearing K 49,8h60,8h24 E (864710E)GOST 24310-80
	11	112-1701202	1	Gear
	12	80-1701201	1	Bushing
	13		1	Bearing 50215 A GOST 8338-75/GOST 2893-82
	14	80-1701205	2	Strip
	15		4	Washer10 OT OST 37.001.115-75
	16		4	Bolt M10-6gh30.88.35.019 GOST 7796-70
	17	80-1701207-01	1	Bushing
	18	80-1701160	1	Shaft

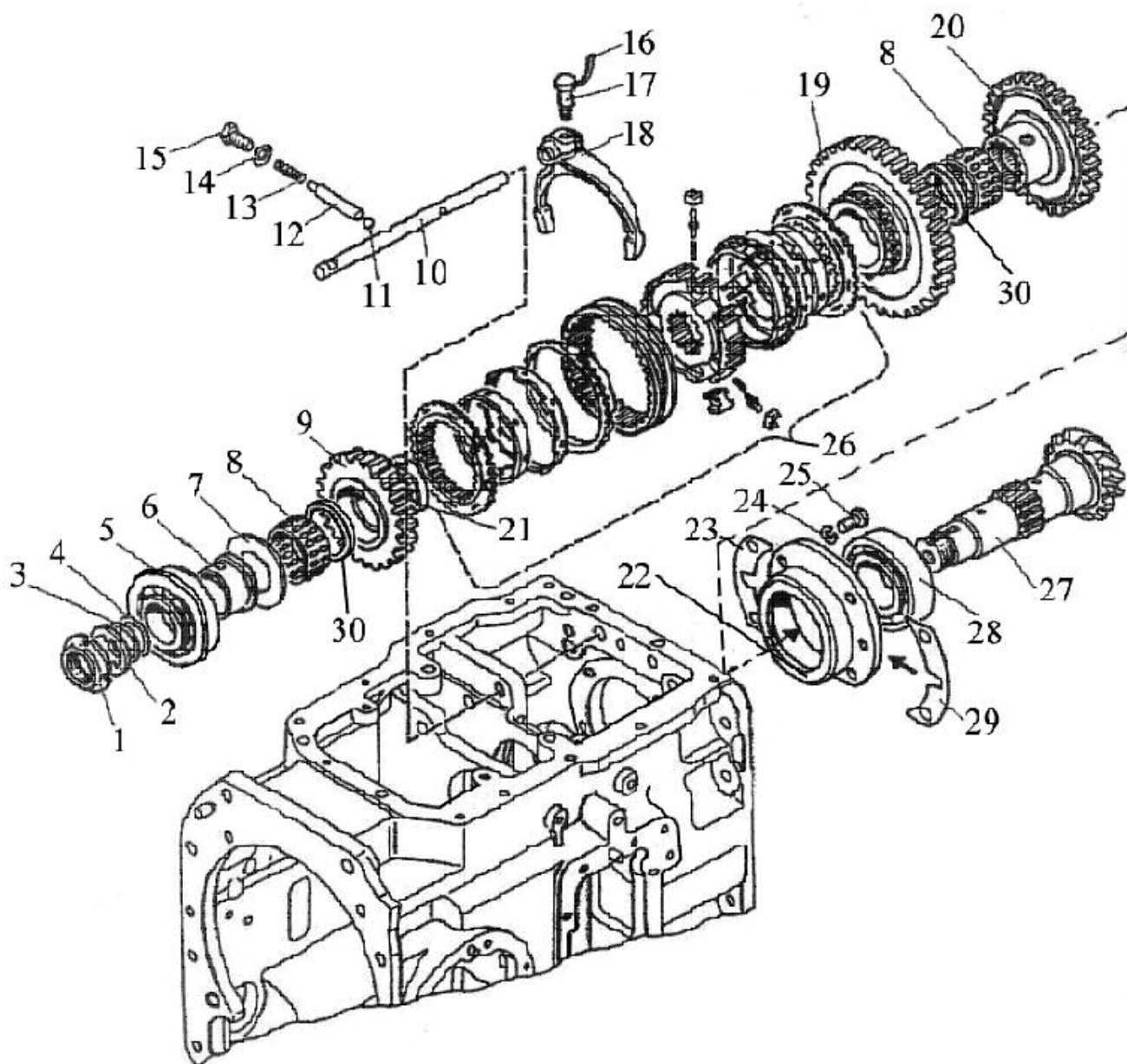


Fig. 17.12 Secondary shaft

Group 17. Gearbox
Subgroup 1701. Gearbox. Secondary shaft (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.12		1222-1701050	1	Shaft (27, inner cage with bearing rollers pos. 28)
		80-1701140-B	1	Seat (22, outer cage of bearing pos. 28)
	1	80-1701045	1	Nut
	2	1522-1701354	1	Washer
	3	1522-1701254	5	Washer
	4	1522-1701254-01	5	Washer
	5		1	Bearing 6-67512 ASH2 GOST 27365-87
	6	1522-1701350	1	Bushing
	7	1222-1701353	1	Washer
	8		2	Bearing KK 70h78h31 E (664514E) TU RB 00234873.003-99
	9	1222-1701314-A	1	Gear
	10	1222-1702037	1	Carrier
	11		1	Ball 10,0-60 GOST 3722-81
	12	85-1702048	1	Dowel
	13	50-1702148-A	1	Spring
	14	85-1702051	1	Washer
	15		1	Bolt M12-6gh25.88.35.019 GOST 7796-70
	16		1	Wire 1,6-O-S GOST 3282-74 (200 mm)
	17	80-1702108	1	Bolt
	18	1222-1702029	1	Fork
	19	1222-1701312-A	1	Gear
	20	1222-1701313	1	Gear
	21	1222-1701349	1	Bushing
	22	80-1701141-B	1	Body
	23	50-1701258	1-6	Gasket
	24		4	Washer10 OT OST 37.001.115-75
	25		4	Bolt M10-6gh30.88.35.019 GOST 7796-70
	26	GT-D 109/116; 3.26299.3	1	Synchronizer
	27	1222-1701252-V ¹⁾	1	Gear shaft
	28		1	Bearing 7712 A GOST 27365-87
	29	50-1701259	1-4	Gasket
	30	2025-1701033	2	Bushing
1) Is supplied together with driven gear 50-2403021-V (set 85-2403014-V «Gears of main gear»).				

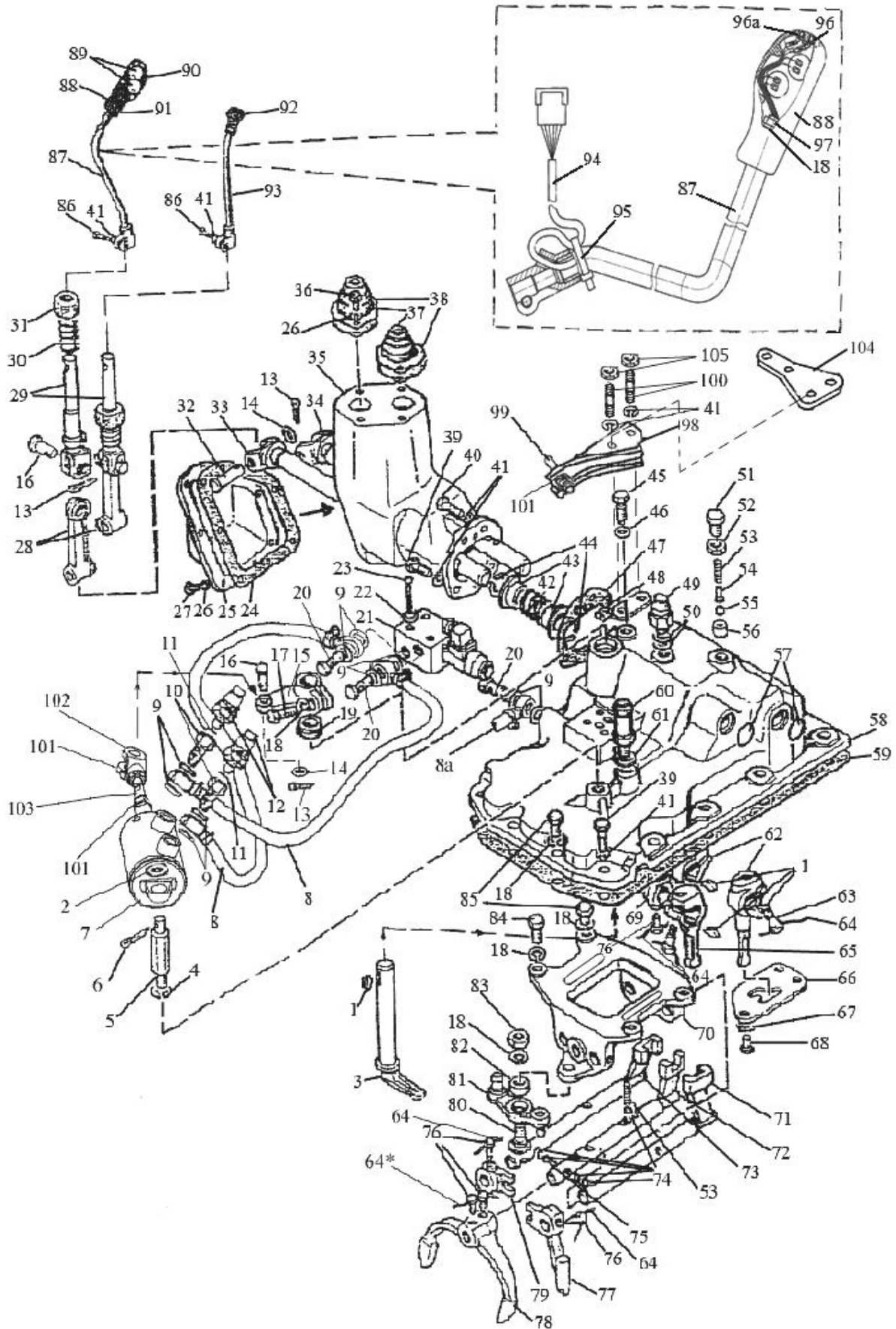


Fig. 17.13 Gearbox control mechanism

**Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism (24F+12R)**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.13		1222-1702010-A	1	Control mechanism
		1222-1702080	1	Fork housing (18-1 pcs., 53-1 pcs., 64 (2h200+200 ¹)=600 mm), 70-83)
	1		4	Key 6h10 GOST 24071-97
	2		1	Washer S 16.01.019 GOST 11371-78
	3	1222-1702093	1	Lever
	4		1	Washer 18 OT OST 37.001.115-75
	5	1222-1702096-B	1	Axle
	6		1	Split pin 3,2h25.019 GOST 397-79
	7	2102-4216110-B	1	Cylinder
	8	1222-1702130	2	Oil pipeline
	8a	1222-1702130-01	1	Oil pipeline
	9	D18-055-A	10	O-Ring
	10	1222-1702114	2	Fitting
	11		2	Ring 009-012-19-1-4 GOST 18829-73/GOST 9833-73
	12	DSDM-M TU RB 07513211.004-94	2	Sensor
	13		5	Split pin 3,2h18.019 GOST 397-79
	14	85-4619014	3	Washer
	15	1222-1702092	1	Lever
	16		3	Pin 12h32 OST 37.001.163-97
	17		1	Bolt M12-6gh35.88.35.019 GOST 7796-70
	18		8	Washer 12 OT OST 37.001.115-75
	19		1	Collar 2.2-25h42-1 GOST 8752-79/OST 3805146-78
	20	D18-051	3	Bolt
	21	1RGE-6T/3.574E.G12.O1 TU RB 400051624.093-2004 or RH 06101-012/00GA-AMR or HDZ3-EVS.34.XPZ-012C AMP	1	Hydraulic distributor
				Hydraulic distributor
	22		4	Washer 5T OST 37.001.115-75
	23		4	Screw V.M5-6gh50.58.019 GOST 17473-80
	24	80-1702068	1	Gasket
	25	80-1702067	1	Cover
	26		11	Washer 6T OST 37.001.115-75
	27		7	Bolt M6-6gh16.88.35.019 GOST 7798-70
	28	80S-1702073	2	Lever
	29	80S-1702074	2	Fork
	30	77.37.117	2	Spring
	31	142-1702032	2	Sphere
	32	1	2	Pin 2h55 OST 37.001.163-97
	33	1222-1702070	1	Shaft
	34	80S-1702060	1	Shaft
	35	80-1702078-A	1	Housing
	36		4	Bolt M6-6gh20.88.35.019 GOST 7798-70
	37	55-47-569-A	2	Cover

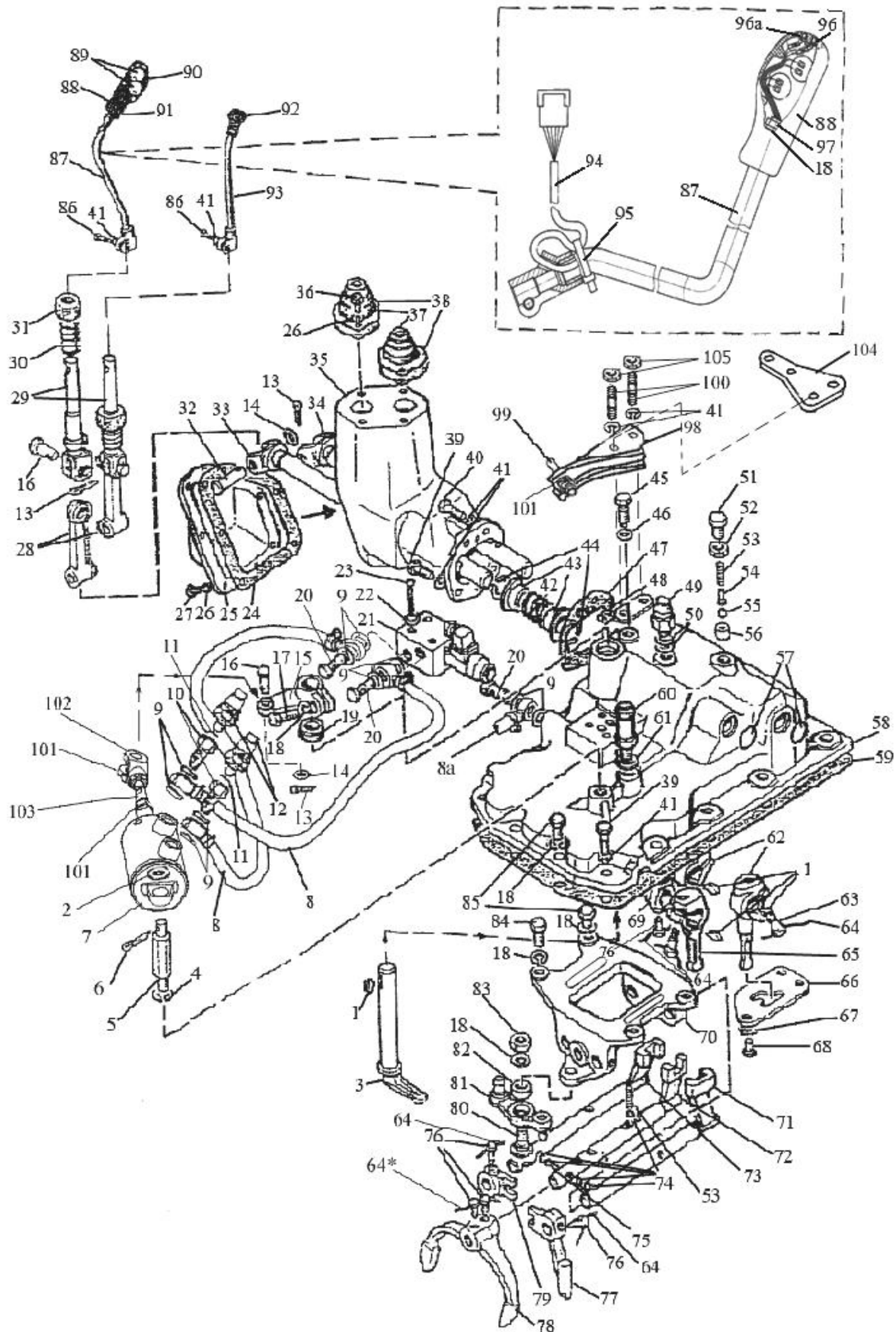


Fig. 17.13 Gearbox control mechanism

Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.13	38	80S-1702075	2	Washer
	39		14	Bolt M10-6gh35.88.35.019 GOST 7796-70
	40		2	Bolt M10-6gh40.88.35.019 GOST 7796-70
	41		20	Washer 10 OT OST 37.001.115-75
	42	80-4608057	1	Spring
	43	1222-1702064	2	Bushing
	44		2	Ring S25 GOST 13940-86
	45	1222-1702048	1	Screw
	46	85-1702051	1	Washer
	47	80C-1702066	1	Gasket
	48		2	Dowel 8h16 GOST 3128-70
	49		1	Switch BK 12-41 TU RB 37334210.015-97
	50	50-1702048	10	Shim washer
	51	70-1703204	1	Bolt
	52		1	Nut M16-6N.04.019 GOST 5916-70
	53	50-1702148-A	2	Spring
	54	80-1704039	1	Guide
	55		1	Ball 10,0-60 GOST 3722-81
	56	70-1703013	1	Bushing
	57		2	Blind plug 28-10kp.TS9.hr GOST 3111-81
	58	1222-1702030-B	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		7	Wire 1,6-O-S GOST 3282-74 (6h200+200 ¹⁾ =1400 mm)
	65	1222-1702055	1	Lever
	66	1222-1702052	1	Gate
	67	80-3401013	3	Washer
	68		3	Bolt M10-6gh20.88.35.019 GOST 7796-70
	69	1222-1702074	1	Bushing
	70	1222-1702081	1	Housing
	71	1222-1702084	1	Carrier
	72	1222-1702086	1	Carrier
	73	1222-1702083	1	Carrier
	74		5	Ball 9,922-100 GOST 3722-81
	75	85-1702301	1	Axle
	76	220-1702061	5	Bolt
	77	1222-1702109	1	Carrier
	78	1222-1702091 ²⁾	1	Fork
	79	1222-1702107	1	Limiter
	80	1222-1702112	1	Axle
	81	1222-1702105	1	Rocker arm
	82		1	Bearing 941/20 GOST 4060-78

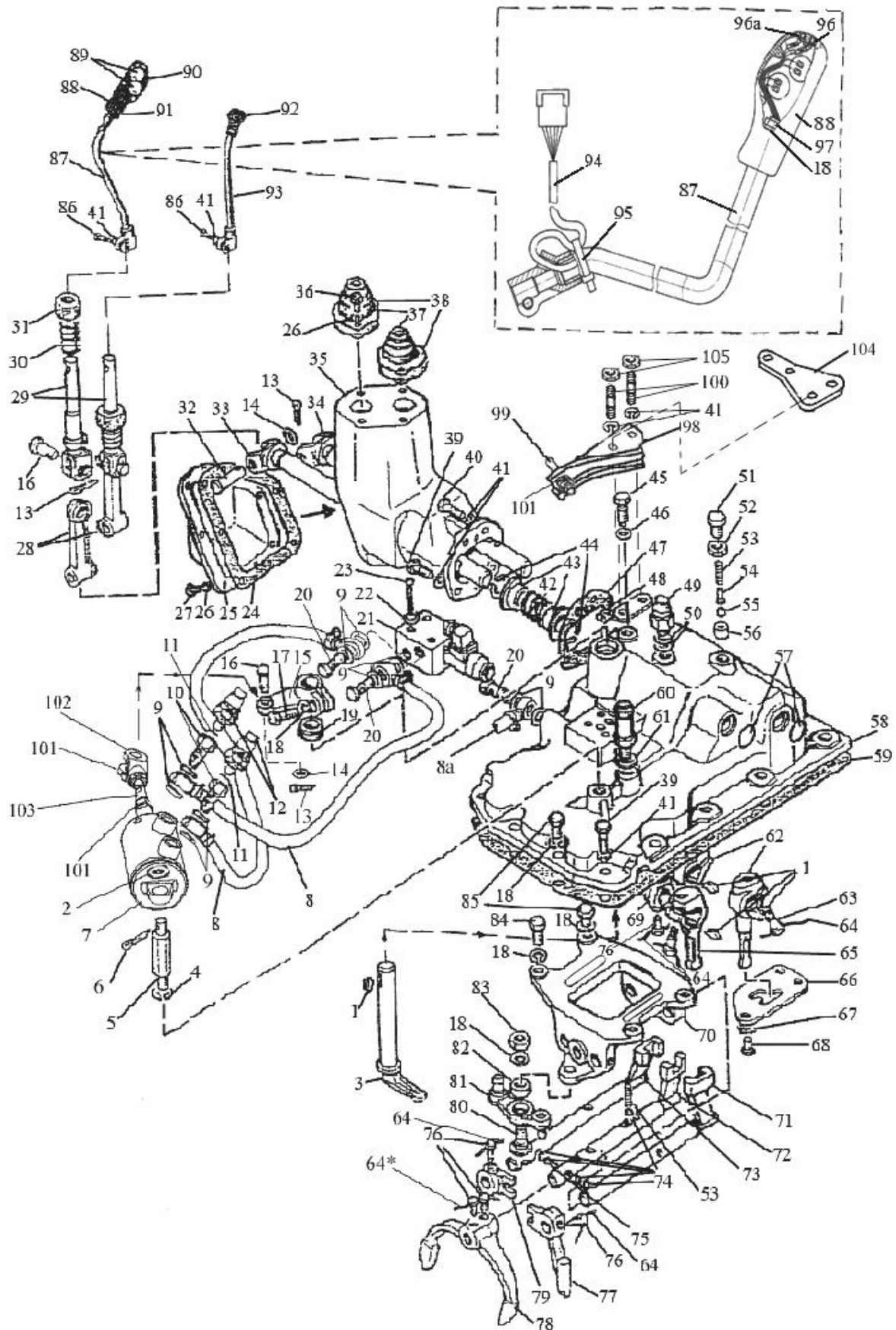


Fig. 17.13 Gearbox control mechanism

Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism (24F+12R)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.13	83		1	Nut M12-6N.6.019 GOST 5915-70
	84		2	Bolt M12-6gh30.88.35.019 GOST 7796-70
	85	50-1702092	4	Bolt
	86		2	Bolt M10-6gh30.88.35.019 GOST 7796-70
	87	1222-1702610-A1	1	Lever
	88	75-1702505	1	Handle
	89	VK 12-1 TSIKS 642241.001 TU	2	Switch
	90		4	Screw 1-4h25.019 GOST 1144-80
	91	75-1702502	1	Cover
	92	A15.05.020	1	Handle
	93	2022-1702500-A	1	Lever
	94	1221-3724925-A	1	Bundled cable
	95	80-3723045	1	Collar
	96	AL 307 KM aA0.336.076 TU (red)	1	Light-emitting diode
	96a	AL 307 NM aA0.336.076 TU (yellow)	1	Light-emitting diode
	97		1	Nut M12h1,25-6N.6.019 GOST 5915-70
	98	2022-1702090-B	1	Bracket
	99	2022-1702093	1	Bolt
	100	2022-1702142	2	Stud
	101		3	Nut M10-6N.04.019 GOST 5916-70
	102	822-3502203	1	Fork
	103	2022-1702094	1	Stud
	104	85-3503046	1	Bracket
	105		2	Nut M10-6N.6.019 GOST 5915-70
¹⁾ Locking of fork bolts pos. 78 is carried out during assembly of GB.				
²⁾ Adjustment with bolts pos. 76 and wire pos. 64 (200 mm) is carried out during assembly of GB.				

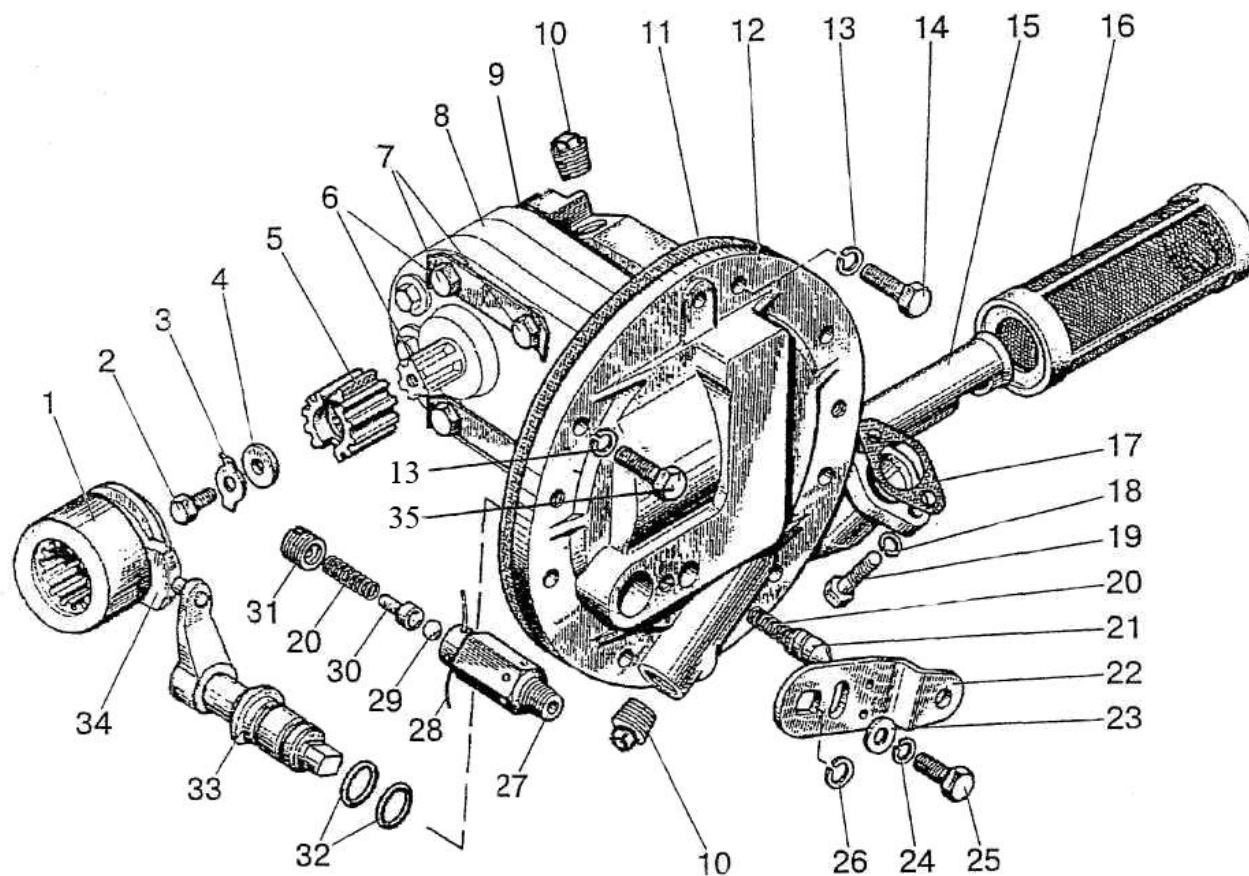


Fig. 17.14. Pumps drive

**Group 17. Gearbox
Subgroup 1704. Pumps drive**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.14		1222-1704010	1	Pump drive (1-10,12,15-34)
		80-1704040	1	Valve (20,27-31)
	1	80S-1704096-B	1	Clutch
	2		1	Bolt M8-6gh20.88.35.019 GOST 7796-70
	3	80-1704034	1	Washer
	4	85-1601108	1	Washer
	5	80-1704014-B	1	Bushing
	6	80-1704092	2	Lock plate
	7		4	Bolt M12-6gh75.88.35.019 GOST 7795-70
	8	NMSH25	1	Oil gear pump
	9	80-1704093	1	Pump gasket
	10	PK KG 3/8"	2	Plug
	11	80-1704016	1	Gasket
	12	1222-1704015	1	Housing
	13		7	Washer 10 OT OST 37.001.115-75
	14		6	Bolt M10-6gh30.88.35.019 GOST 7796-70
	15	80-1704030	1	Oil pipeline
	16	80-1704050-A	1	Filter
	17	80-1704033	1	Gasket
	18		2	Washer 8T OST 37.001.115-75
	19		2	Bolt M8-6gh30.88.35.019 GOST 7796-70
	20	50-1702148-A	1	Spring
	21	80-1704037	1	Locking pin
	22	80-1704018	1	Plate
	23		1	Washer S 10.01.019 GOST 11371-78
	24		1	Washer 10L OST 37.001.115-75
	25		1	Bolt M10-6gh25.88.35.019 GOST 7796-70
	26		1	Ring S18 GOST 13940-86
	27	80-1704041	1	Housing
	28		1	Wire 1,0-O-S GOST 3282-74
	29	10,0-60	1	Ball
	30	80-1704039	1	Guide
	31	80-1704038	1	Plug
	32		2	Ring 020-025-30-1-4 GOST 18829-73/GOST 9833-73
	33	80-1704020-B	1	Shaft
	34	80-1704021	1	Holder
	35		1	Bolt M10-6gh25.88.35.019 GOST 7796-70

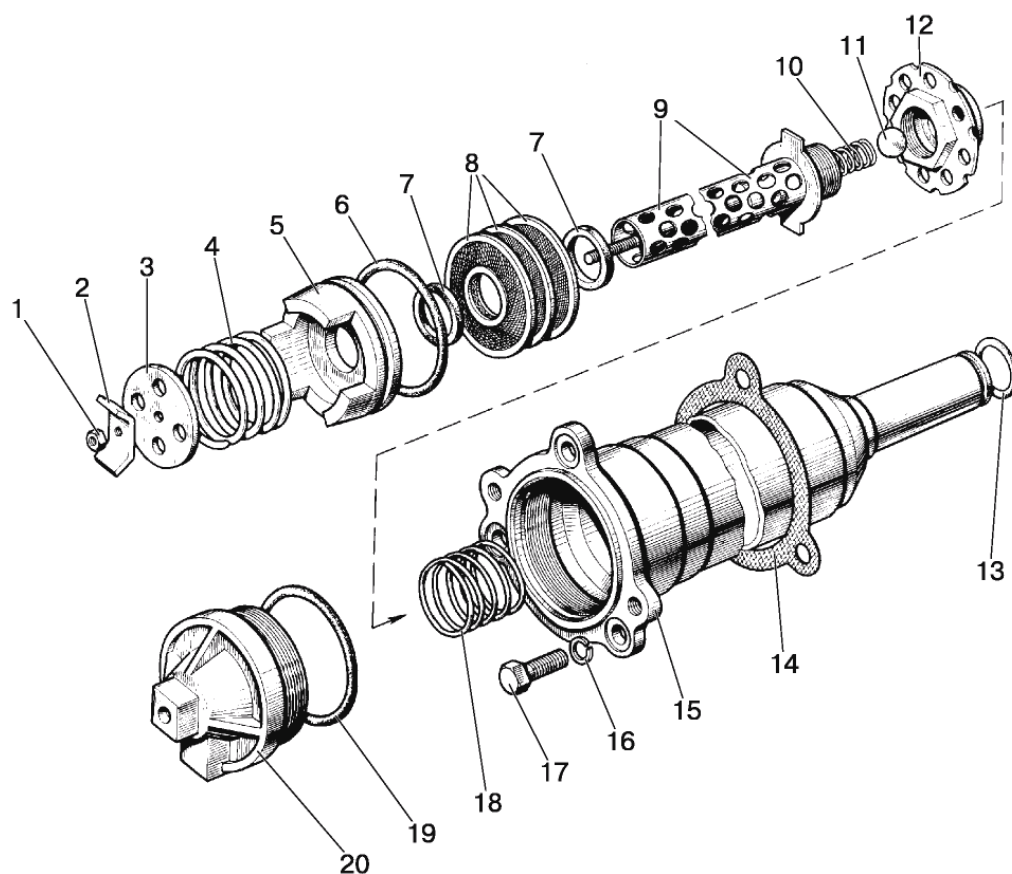


Fig. 17.15. Filter

**Group 17. Gearbox
Subgroup 1716. Filter**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.15		80-1716010	1	Filter (1-13, 15, 18-20)
		80-1716040	1	Pipe (9-12)
		80-1716030	1	Filter (1-5, 8-12)
	1		1	Nut M5-6N.6.019 GOST 5927-70
	2	80-1716033	1	Clip
	3	80-1716032	1	Washer
	4	80-1716034	1	Spring
	5	80-1716031	1	Piston
	6		1	Ring 059-065-36-2-4 GOST 18829-73/GOST 9833-73
	7	80-1716024	2	Ring
	8	80-1716080	45	Filter element
	9	80-1716050	1	Pipe
	10	80-1716041	1	Spring
	11		1	Ball 15,081-100 GOST 3722-81
	12	80-1716060	1	Housing
	13		1	Ring 022-025-19-1-4 GOST 18829-73/GOST 9833-73
	14	80-1716016	1	Gasket
	15	80-1716020	1	Housing
	16		3	Washer 10 OT OST 37.001.115-75
	17		3	Bolt M10-6gh30.88.35.019 GOST 7796-70
	18	80-1716018	1	Spring
	19		1	Ring 066-071-30-2-2 GOST 18829-73/GOST 9833-73
	20	80-1716015	1	Cover

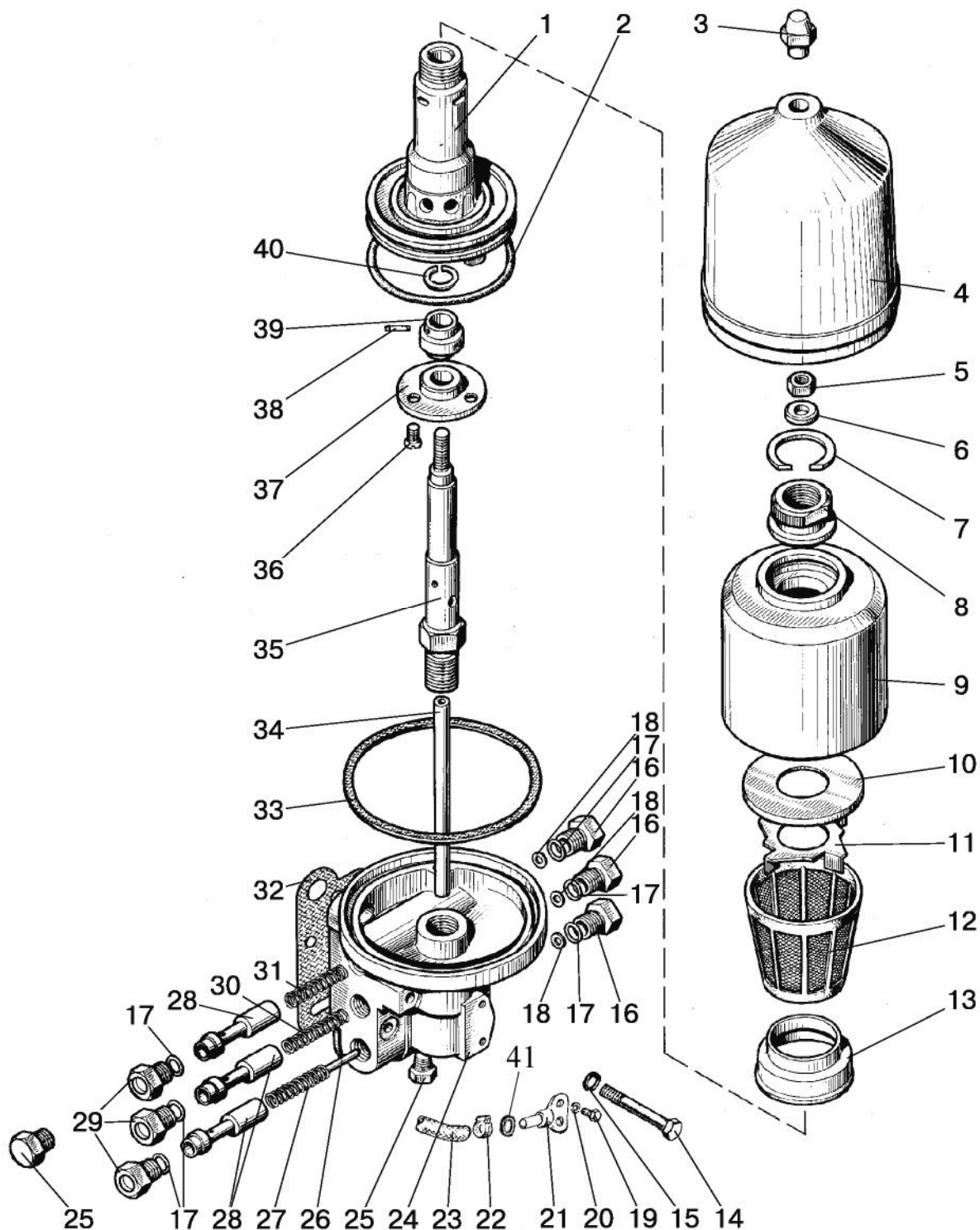


Fig. 17.16. Distributor-filter

**Group 17. Gearbox
Subgroup 1737. Distributor-filter**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
17.16		80-1737110	1	Distributor-filter (1-13, 16-18, 24-31, 33-40)
		80-1028020	1	Rotor with shaft (1, 2, 5-13, 34-40)
		240-1 404030-A	1	Rotor bowl (7-9)
		80-1028080	1	Rotor shaft (34, 35, 37-40)
		240-1404140	1	Well strainer (10, 12)
	1	240-1404017-B	1	Rotor housing
	2		1	Ring 115-120-30-2-1 GOST 18829-73/GOST 9833-73
	3	240-1404088	1	Cap nut
	4	240-1404027	1	Filter cap
	5		1	Nut 115-120-30-2-1 GOST 18829-73/GOST 9833-73
	6	D37A-1407607-V	1	Thrust washer
	7	240-1404033	1	Thrust ring
	8	240-1 404035-A	1	Special nut
	9	240-1404023	1	Rotor bowl
	10	240-1404113	1	Cover
	11	240-1404024	1	Rotor impeller
	12	240-1404110	1	Well strainer
	13	240-1404049	1	Inner bowl
	14		4	Bolt M10-6gh70.88.35.019 GOST 7795-70
	15		4	Washer 10 OT OST 37.001.115-75
	16	50-1404075	3	Valve plug
	17	1221-1737126	6	Washer
	18		2 ¹⁾	Washer S 5.01.019 GOST 11371-78
	19		2	Bolt M8-6gh30.88.35.019 GOST 7796-70
	20		2	Washer 8T OST 37.001.115-75
	21	1221-2401005	1	Connecting pipe
	22	16-25	2	Clamp
	23	14x23-16 14h23-16	1 1	Hose pipe L=750 (with hydraulic lift) Hose pipe L=960 (with draft control unit)
	24	80-1737111	1	Housing
	25	KG 1/8". A12.019	4	Plug
	26		1	Dowel 6h45 GOST 3128-70
	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-B1	1	Cap gasket
	34	240-1404013-B	1	Pipe
	35	240-1404012-B	1	Rotor shaft
	36		3	Screw V.M6-6gh14.58.019 GOST 17475-80
	37	240-1404019-B	1	Rotor housing cover
	38	2401404028	1	Dowel
	39	80-1028090-B	1	Mouthpiece
	40	240-1404118	1	Ring
	41		1	Ring 017-022-30-1-4 GOST 18829-73/ GOST 9833-73

¹⁾ On demand

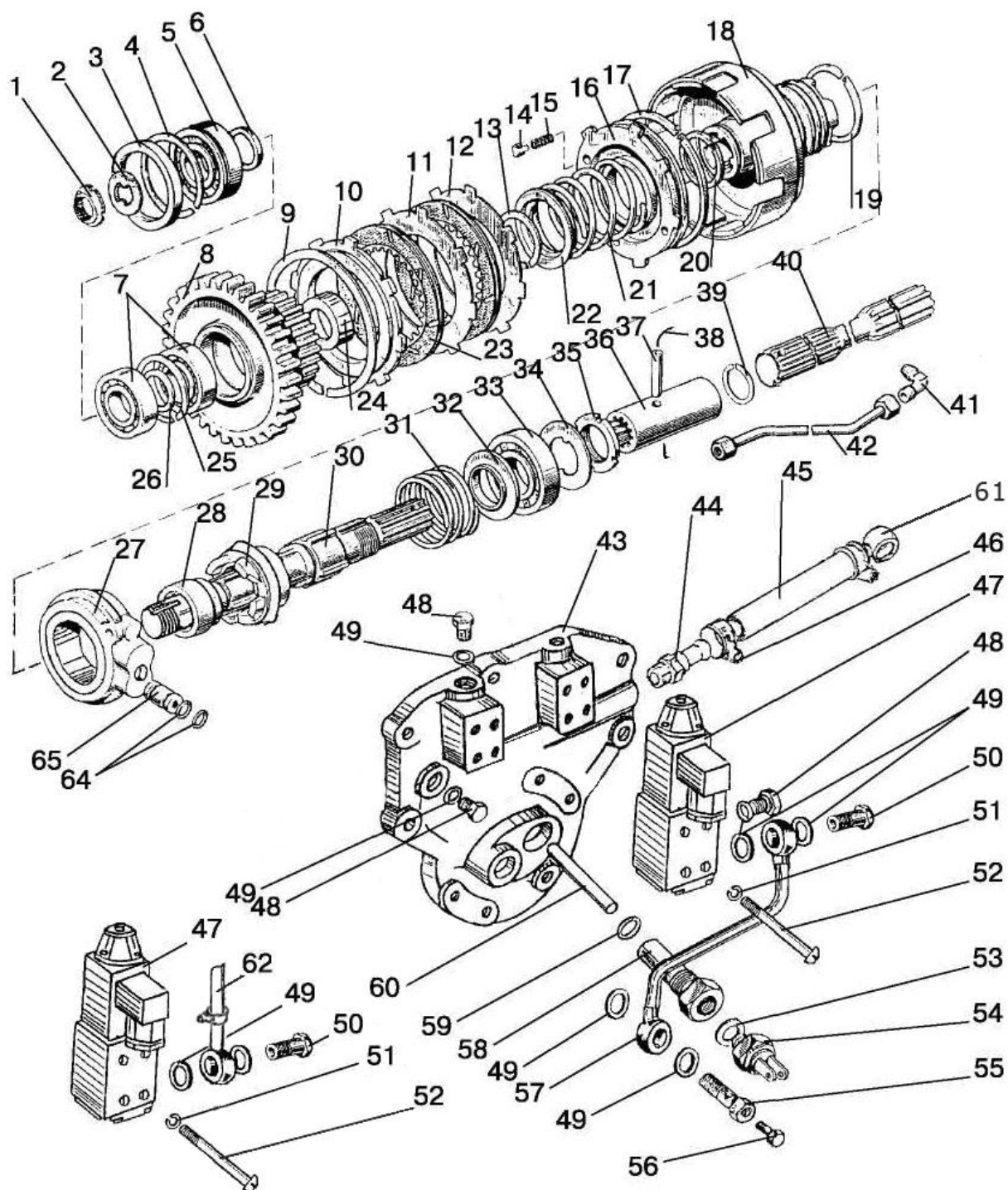


Fig. 18.1 Front driving axle drive

Group 18. Front driving axle drive
Subgroup 1802. Front driving axle drive

Fig.	Pos.No	Designation	Q-ty	Description
18.1		1221-1802030	1	Friction clutch coupling (1221-1802040, 9-24, 27)
		1221-1802040	1	Gear (7, 8, 25, 26)
		1221-1802060-B	1	Pipeline (45, 46, 66)
	1	1221-1802023	1	Nut
	2	1221-1802019	1	Washer
	3	86-1802024-A	1	Bushing
	4		1	Ring V72 GOST 2893-82
	5		1	Bearing 6-50306K GOST8338-75/GOST2893-82
	6	86-1802043	1	Washer
	7		2	Bearing 206A GOST 8338-75
	8	1221-1802041	1	Gear
	9		1	Ring S135 GOST 13941-86
	10	86-1802034	1	Thrust disc
	11	86-1802032 ¹⁾	3-4	Driven plate
	12	1221-1802032 ¹⁾	3-4	Driven plate
	13		1	Ring S48 GOST 13940-86
	14	86-1802039	2	Guide
	15	86-1802048	2	Spring
	16	1221-1802031	1	Piston
	17	86-1802047	1	Ring
	18	1221-1802036	1	Drum
	19	86-1802083-A	2	Ring
	20	1221-1802333	1	Ring
	21	86-1802038	1	Spring
	22	86-1802046	1	Body
	23	86-1802035-A	7	Drive plate
	24	1221-1802044	1	Bushing
	25		1	Ring S62 GOST 13943-86
	26	86-1802049	1	Ring
	27	1221-1802025	1	Cage
	28	86-1802028	1	Bushing
	29	8020-1802026	1	Half coupling
	30	1221-1802013-B	1	Shaft
	31	86-1802027	1	Spring
	32	86-1802051	1	Washer
	33		1	Bearing 207 GOST 8338-75
	34	86-1802052	1	Washer
	35	52-2308097	1	Nut
	36	86-1802014-B	1	Bushing
	37		1	Dowel A.8h40.65G GOST 14229-93
	38		1	Wire 1,6-O-S GOST 3282-74 (L=180 mm)
	39	86-1802017-B	1	Ring
	40	1221-1802042	1	Shaft
	41	86-1802088	1	Angle piece
	42	86-1802055	1	Pipeline
	43	1221-1802016	1	Cover
	44	85-3407470	1	Fitting
	45	1221-1802068	1	Tube
¹⁾ Selection				

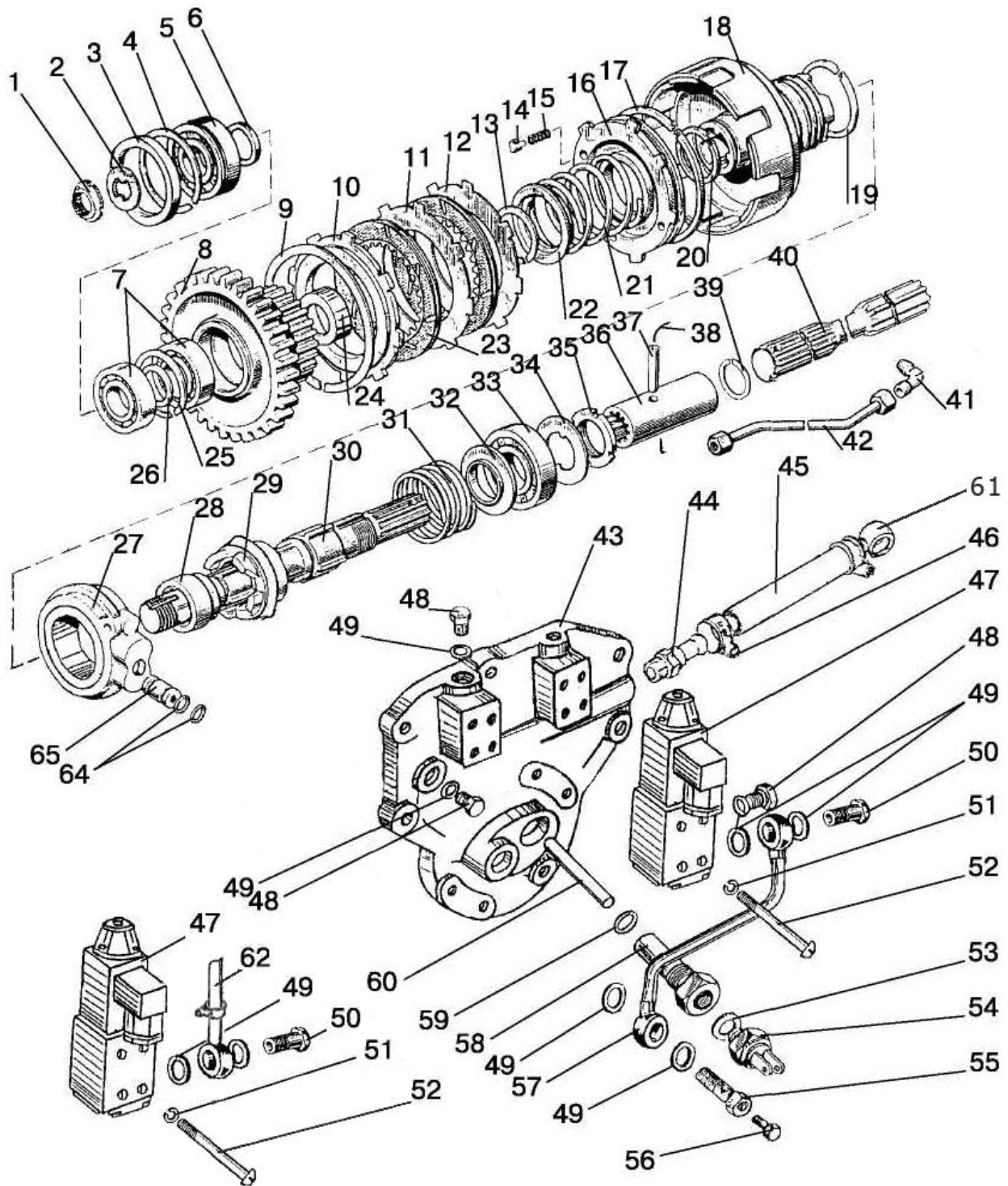


Fig. 18.1 Front driving axle drive

Group 18. Front driving axle drive
Subgroup 1802. Front driving axle drive

Fig.	Pos.No	Designation	Q-ty	Description
18.1	46	NORMA TORRO 12-22/971 or "NORMA" TORRO 12-20/9-C6W	2	Clamp
	47	1RGE-6T/3.574E.G12.O1 or HDZ3-EVS.34.XPZ-012C AMP or RH 06101-012/00GA-AMR	2	Hydraulic distributor
	48	1221-1802091	2	Threaded plug
	49	D18-055-A	9	O-Ring
	50	D18-051	2	Bolt
	51		8	Washer 5T OST 37.001.115-75
	52	V.M5-6gh50.58.019 GOST 17473-80	8	Screw
	53	50-1702048 ¹⁾	3-4	Gasket
	54		1	Switch BK12-51 TU RB 37334210.004-97
	55	1520-1802088	1	Bolt
	56	KG 1/8". A12.019	1	Plug
	57	1221-1802050	1	Pipeline
	58	8020-1802018	1	Guide
	59		1	Ring 019-022-19-2-2 GOST 18829-73/GOST 9833-73
	60	8020-1802029	1	Pusher
	61	F80-3407720	1	Oil pipeline
	62	1221-2412035-01	1	Pipeline
	64		2	Ring 011-016-30-2-4 GOST 18829-73/GOST 9833-73
	65	1221-1802054	1	Bushing
¹⁾ Selection				

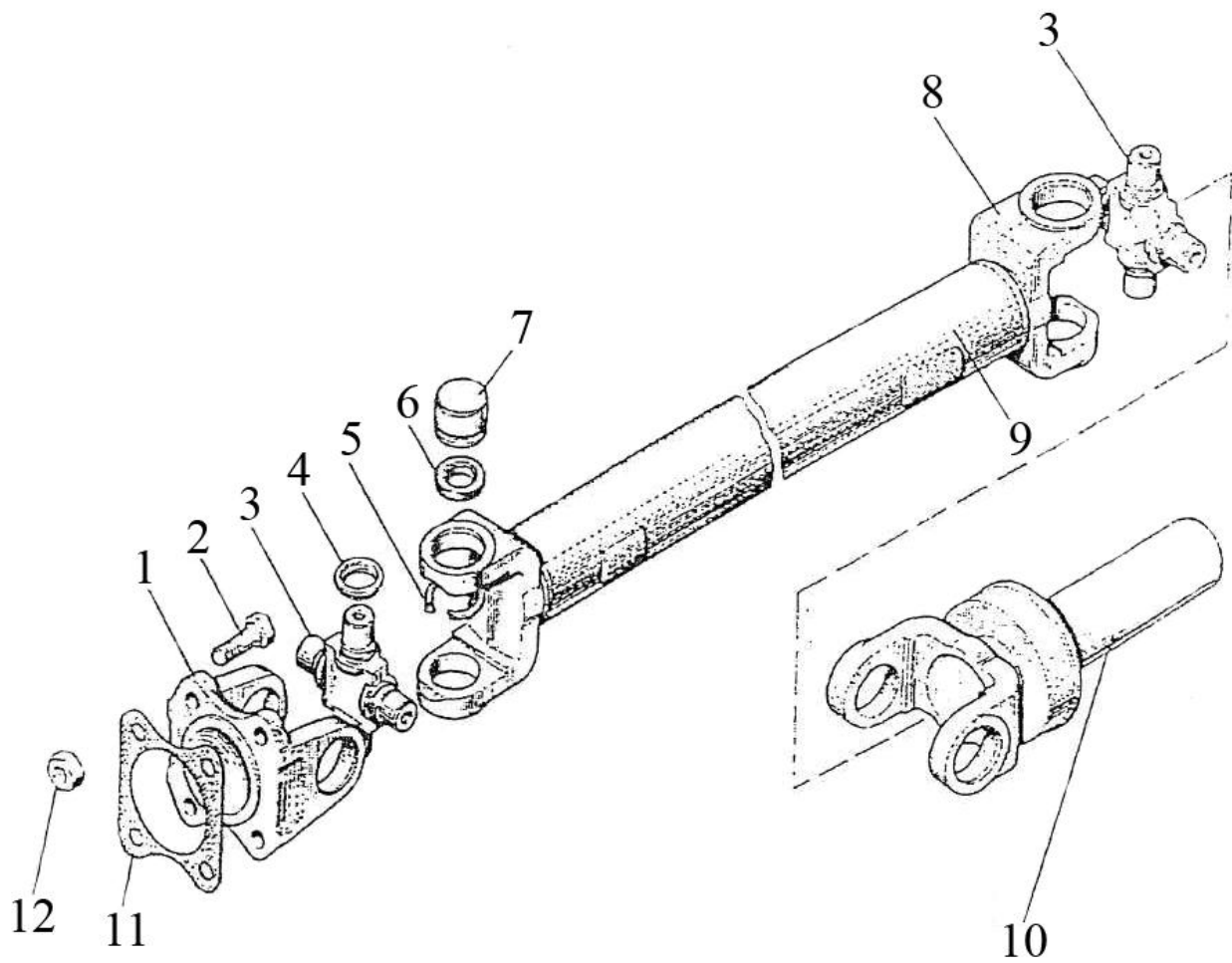
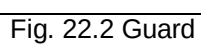


Fig. 22.1 Cardan drive

Group 22. Cardan drive
Subgroup 2203. Cardan drive

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
22.1		112-2203010	1	Cardan shaft (1,3-10)
		72-2203025PH	1	Universal-joint cross with bearings (3,4,6,7)
	1	72-2203023	1	Flange
	2	52-2203012	4	Bolt
	3	72-2203030-01	2	Cross
	4	3102-2201037	8	Deflector
	5	34-2201043	8	Locking ring
	6	69-2201031-A	8	Collar
	7	704702K3C10	8	Bearing
	8	72-2203022	2	Fork
	9	112-2203018	1	Pipe
	10	86-2203047	1	Slip yoke
	11	20-2201024	1	Gasket
	12		4	Hexagon nut M10x1-8 DIN 985



Group 22. Cardan drive
Subgroup 2210. Guard

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
22.2	1		8	Bolt M8-6gh20.88.35.019 GOST 7796-70
	2		8	Washer 8T OST 37.001.115-75
	3		8	Washer S 8.01.019 GOST 11371-78
	4	52-2210012-A	1	Casing
	5	52-2210015	1	Bracket
	6	1025-2210013	1	Casing
	7	1025-2210015	1	Bracket
	8		2	Bolt M16-6gh50.88.35.019 GOST 7796-70
	9		2	Washer 16 OT OST 37.001.115-75
	10	1025-2210010	1	Bracket

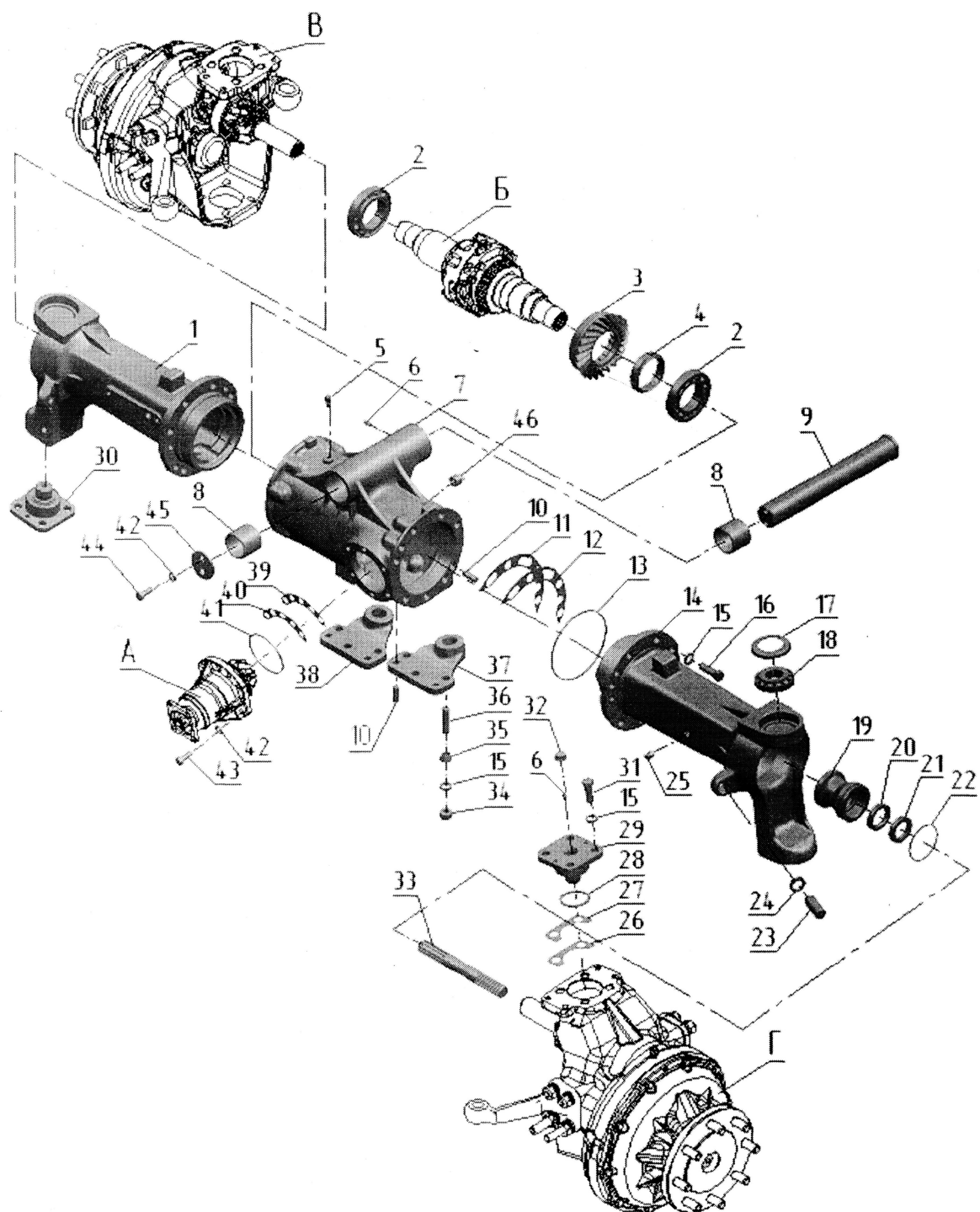


Fig. 23.1. Front driving axle

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
23.1		1222-2300020	1	Front driving axle assy (for RDA with U=23,429)
		1222-2300020-05	1	Front driving axle assy (for RDA with U=27,336)
	A	52-2302010	1	Gear (see fig. 23.2)
	B	52-2303010-B-01	1	Differential (see fig. 23.3)
	C	822-2308005-02* 822-2308005-06**	1	Left wheel-hub drive (see fig.23.4)
	D	822-2308005-03* 822-2308005-07**	1	Right wheel-hub drive (see fig.23.4)
		1420-2301055	1	Housing (8,9)
	1	822-2301051-01	1	Left tube
	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.TS9.hr	1	Oiler 1.3.TS9.hr GOST 19853-74
	7	1420-2301054-01	1	Housing
	8	40-3001022	2	Bushing
	9	1222-3000012	1	Pivot pin
	10	D01-015	8	Dowel pin
	11	52-2303027	16(max)	Shim washer V=0,5 mm
	12	52-2303028	16(max)	Shim washer V=0,2 mm
	13	150-156-36-1-4	2	Ring GOST 18829-73/GOST9833-73
	14	822-2301053-01	1	Right tube
	15		36	Washer16 OT OST 37.001.115-75
	16		14	Bolt M16-6gh45.88.35.019 GOST 7796-70
	17	1520-2308039	4	Body
	18	1027307A(31307)	4	Bearing GOST 27365-87
	19	822-2308100	2	Cage
	20	1.2-38h58-1	2	Collar GOST 8752-79/OST 3805146-78
	21	2.2-38h58-1	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	PK KG 3/8"	2	Plug
	26	52-2302021	6(max)	Shim washer V=0,5 mm
	27	52-2302022	10(max)	Shim washer V=0,2 mm
	28	055-063-46-1-4	4	Ring GOST 18829-73/GOST 9833-73
	29	1520-2308037	3	Axle
	30	1520-2308037-01	1	Axle
	31		16	Bolt M16-6gh40.88.35.019 GOST 7796-70
	32	85-4607447	4	Cap
	33	822-2308065-01	2	Shaft
	34		6	Nut M16-6N.6.019 GOST 5915-70
	35	1520-2308077	6	Bushing
	36	1520-2308079	6	Stud
	37	1222-2301021-B	1	Right bracket

* For FDA 1222-2300020

** For FDA 1222-2300020-05

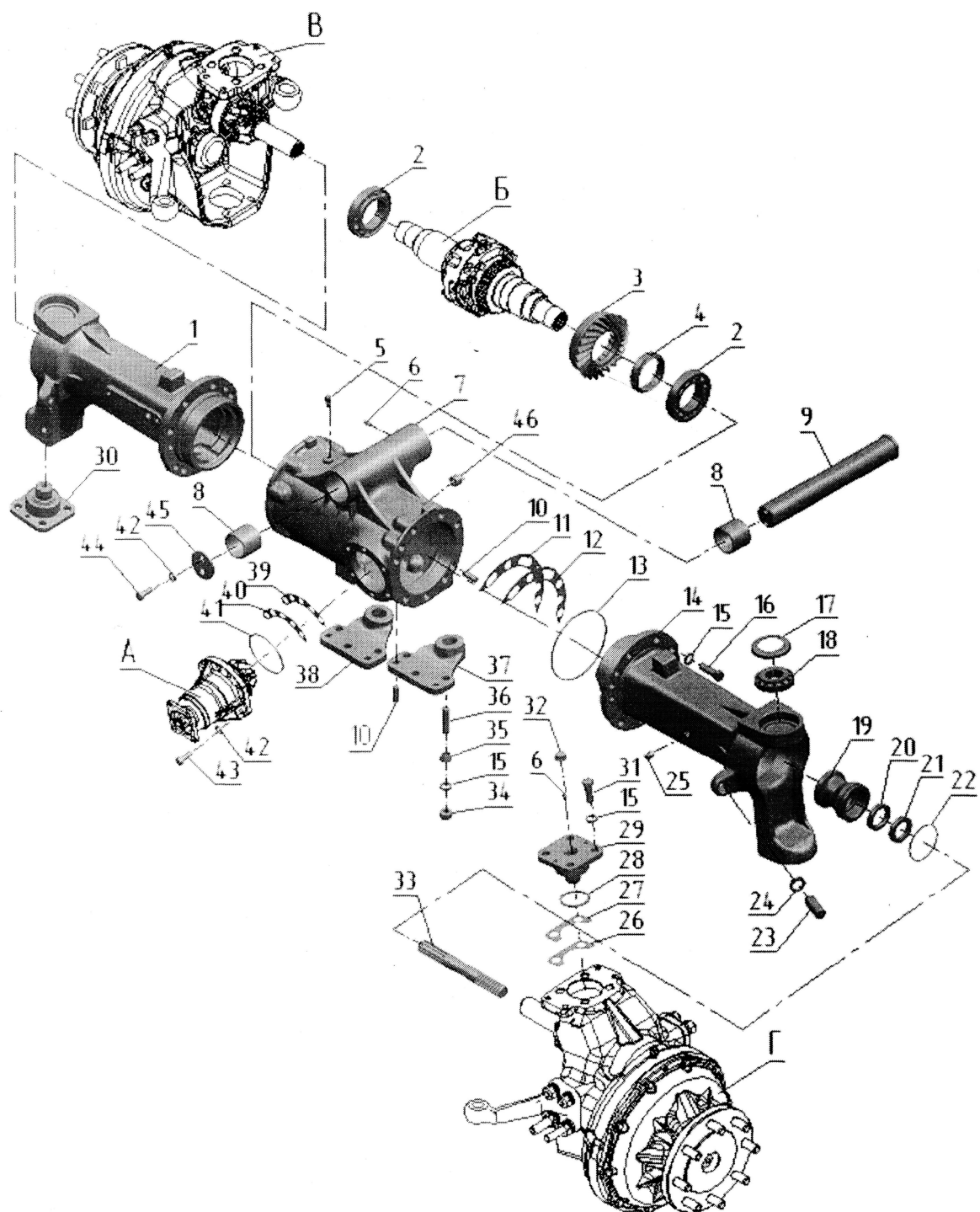


Fig. 23.1. Front driving axle

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
23.1	38	1222-2301022-B	1	Left bracket
	39	1520-2308042	8(max)	Shim washer V=0,2 mm
	40	1520-2308042-01	20(max)	Shim washer V=0,5 mm
	41		1	Ring 089-095-36-1-4 GOST 18829-73/GOST 9833-73
	42		8	Washer 12 OT OST 37.001.115-75
	43		6	Bolt M12 -6gh35.88.019GOST 7796-70
	44	72-2308018	2	Bolt
	45	72-2308031	1	Washer
	46	PK KG 3/4"	2	Plug

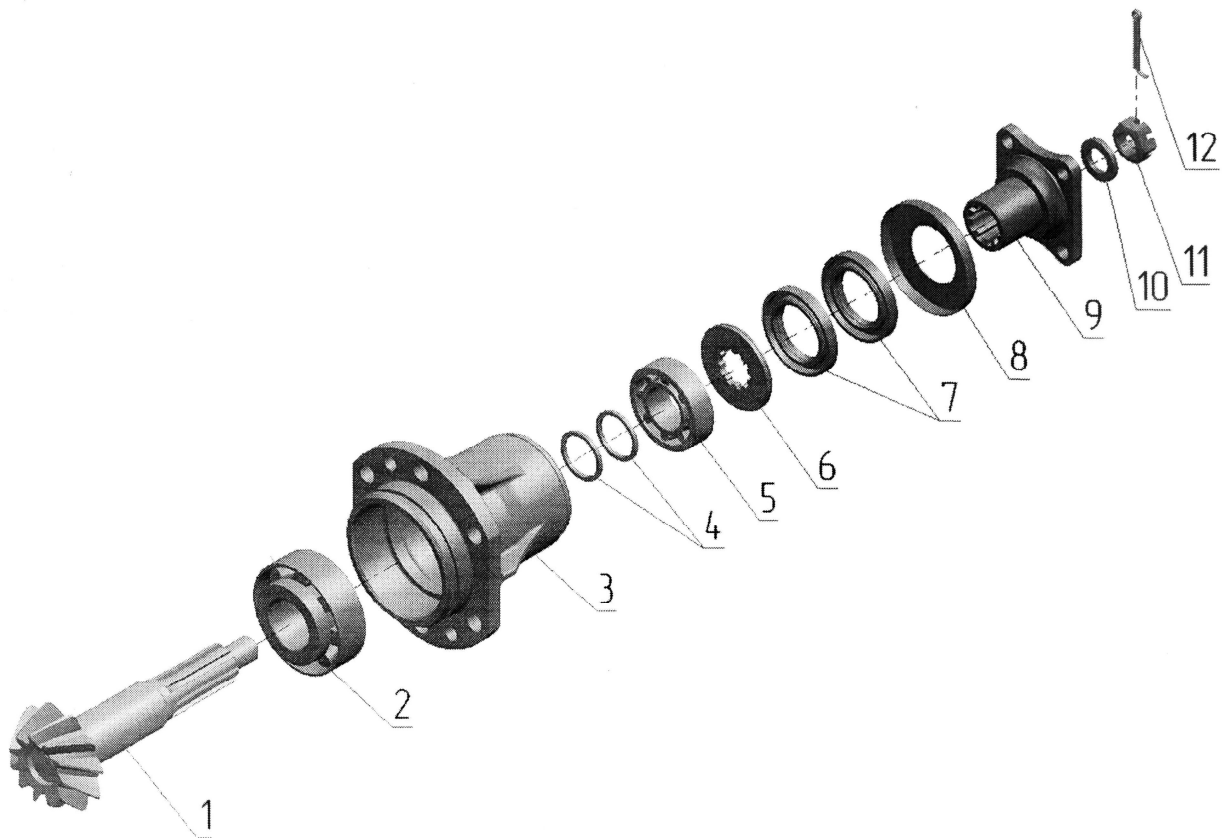


Fig. 23.2 Gear

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
23.2		52-2302010-R	1	Gears set(1-12, 3 (Fig. 23.1))
		52-2302030	1	Drive and driven gears set (1,3 (Fig. 23.1))
	1	52-2302015-A	1	Drive gear
	2	7607A or 6-7607AU	1	Bearing GOST 27365-87
	3	52-2302016-A	1	Body
	4	52-2302026	2*	Adjusting washer V=2,65 mm (a)
		52-2302026-01	2*	Adjusting washer V=2,70 mm (b)
		52-2302026-02	2*	Adjusting washer V=2,75 mm (V)
		52-2302026-03	2*	Adjusting washer V=2,90 mm (G)
		52-2302026-04	2*	Adjusting washer V=3,05 mm (d)
		52-2302026-05	2*	Adjusting washer V=3,20 mm (e)
		52-2302026-06	2*	Adjusting washer V=3,30 mm (zh)
		52-2302026-07	2*	Adjusting washer V=3,35 mm (z)
		52-2302026-08	2*	Adjusting washer V=3,40 mm (i)
	5	7506A	1	Bearing GOST 27365-87
	6	52-2302018	1	Ring
	7		2	Collar 2.2-38h62-1/4 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		1	Split pin 4h25.019 GOST 397-79

* Is choosen at bearings adjustment

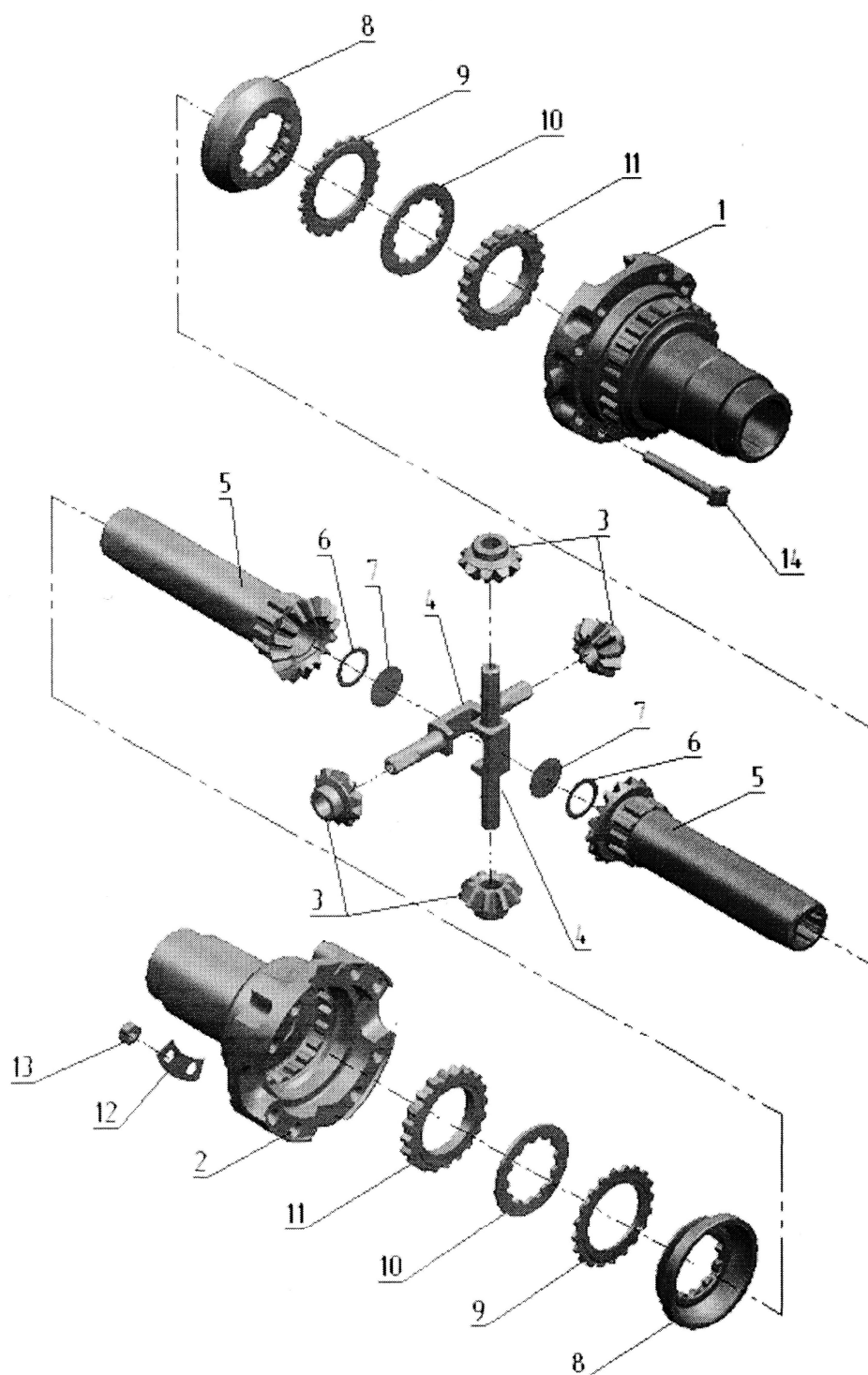


Fig. 23.3 Differential

Group 23. Front driving axle
Subgroup 2302. Differential

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
23.3		52-2303010-B	1	Differential (1-14)
		52-0203030	2	Gear (5-7)
	1	52-2303014-B	1	Case
	2	52-2303015-B	1	Case
	3	52-2303018	4	Planet pinion
	4	52-2303019	2	Axle
	5	52-2303017	2	Gear
	6	52-2303034	2	Gasket
	7	35-10kp.TS9.hr	2	Blind plug GOST 3111-81
	8	52-2303021	2	Pinion cage
	9	52-2303023-A1-01	2	Disc
	10	52-2303024-01	2	Disc
	11	52-2303023-A1	2	Disc
	12	52-2303032	4	Plate
	13	52-2303013	8	Nut
	14	52-2303026-B	8	Bolt

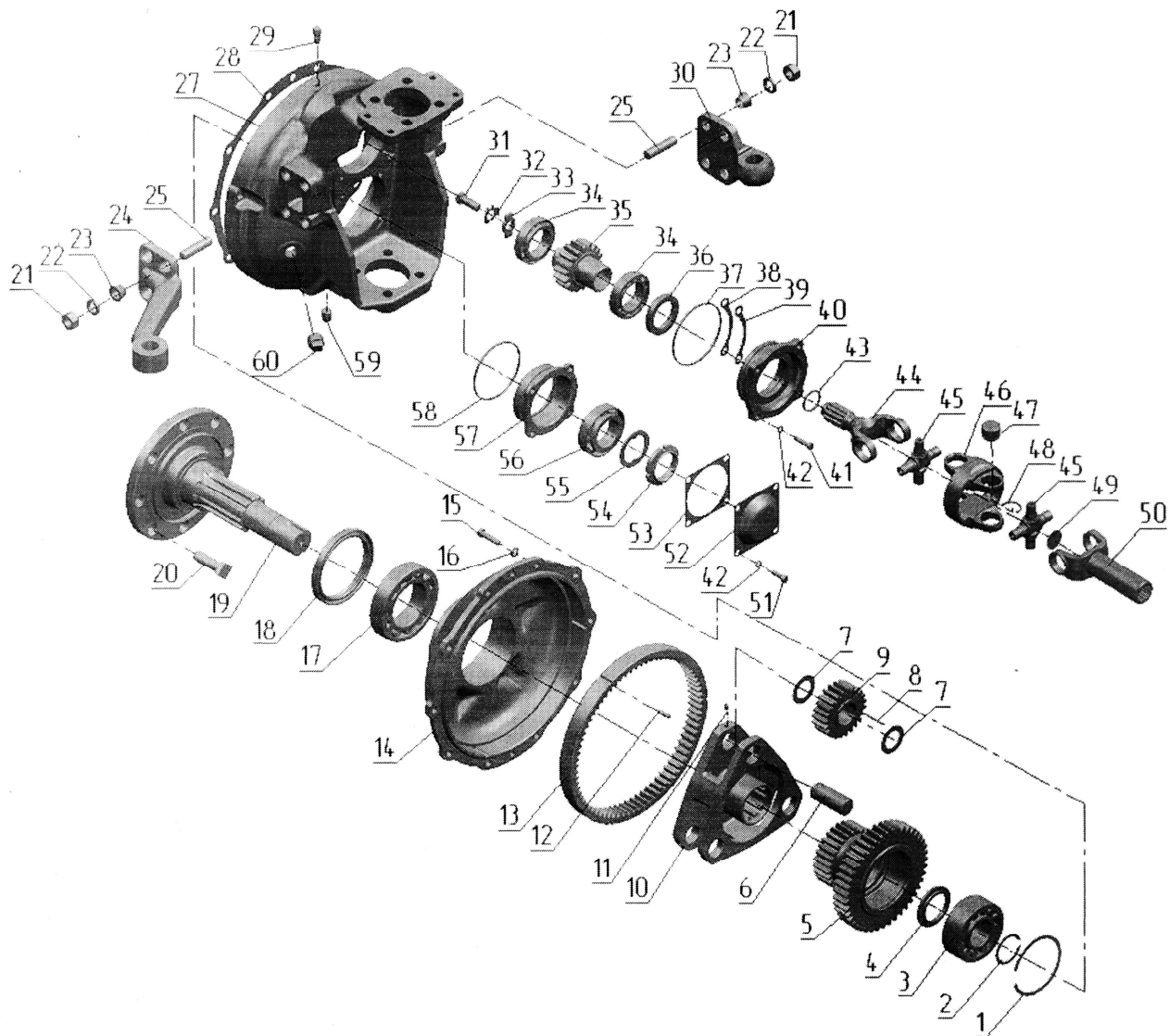


Fig. 23.4 Wheel-hub drive

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
23.4		822-2308005-06** 822-2308005-02*	1	Wheel-hub drive (1-60)
		822-2308005-07** 822-2308005-03*	1	Wheel-hub drive (1-60)
		1520-2308024-20A	2	Doubled pivot joint (43-50)
		1520-2308040-05** 1520-2308040*	2	Housing (27, 29, 31-50)
		1520-2308080	2	Body (36, 37 40)
		1521-2308020	2	Cover (12-14)
		1521-2308030	2	Carrier (6-11)
		1521-2308050-05** 1521-2308050*	2	Hub (1-20)
	1		2	Ring 2S100 GOST 13941-86
	2		2	Ring S45 GOST 13940-86
	3		2	Bearing 53609 GOST 24696-81
	4	1520-2308038	2	Ring
	5	1520-2308062-05** 1520-2308062*	2	Gear train Z=40 Gear train Z=44
	6	1520-2308053	6	Axle
	7	1520-2308054	12	Washer
	8		156	Roller 4h34,8A3 GOST 6870-81
	9	1520-2308059	6	Planet pinion
	10	1521-2308056	2	Carrier
	11	1520-2308011	6	Screw
	12		6	Dowel 2.8h25 GOST 3128-70
	13	1520-2308064	2	Gear
	14	1521-2308016	2	Cover
	15		20	Bolt M10-6gh35.88.019 GOST 7796-70
	16	16 OT	20	Washer OST 37.001.115-75
	17	7514A	2	Bearing GOST 27365-87
	18		2	Collar GOST 8752-79/OST3805146-78
	19	1521-2308017	2	Flange
	20	40-3103016	16	Front wheel bolt
	21		16	Nut M16-6N.6.019 GOST 5915-70
	22		16	Washer 16 OT 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» TSSOG-1/8"	2	Breather
	30	1222-2308076	1	Right bracket
		1222-2308077	1	Left bracket
	31	1521-2308012	2	Bolt
	32	1521-2308031	2	Lock plate
	33	1521-2308013	2	Washer
	34	2007109	4	Bearing GOST 27365-87
	35	1520-2308061-05**	2	Gear Z=14
		1520-2308061*		Gear Z=17

** For FDA 1222-2300020-05

* For FDA 1222-2300020

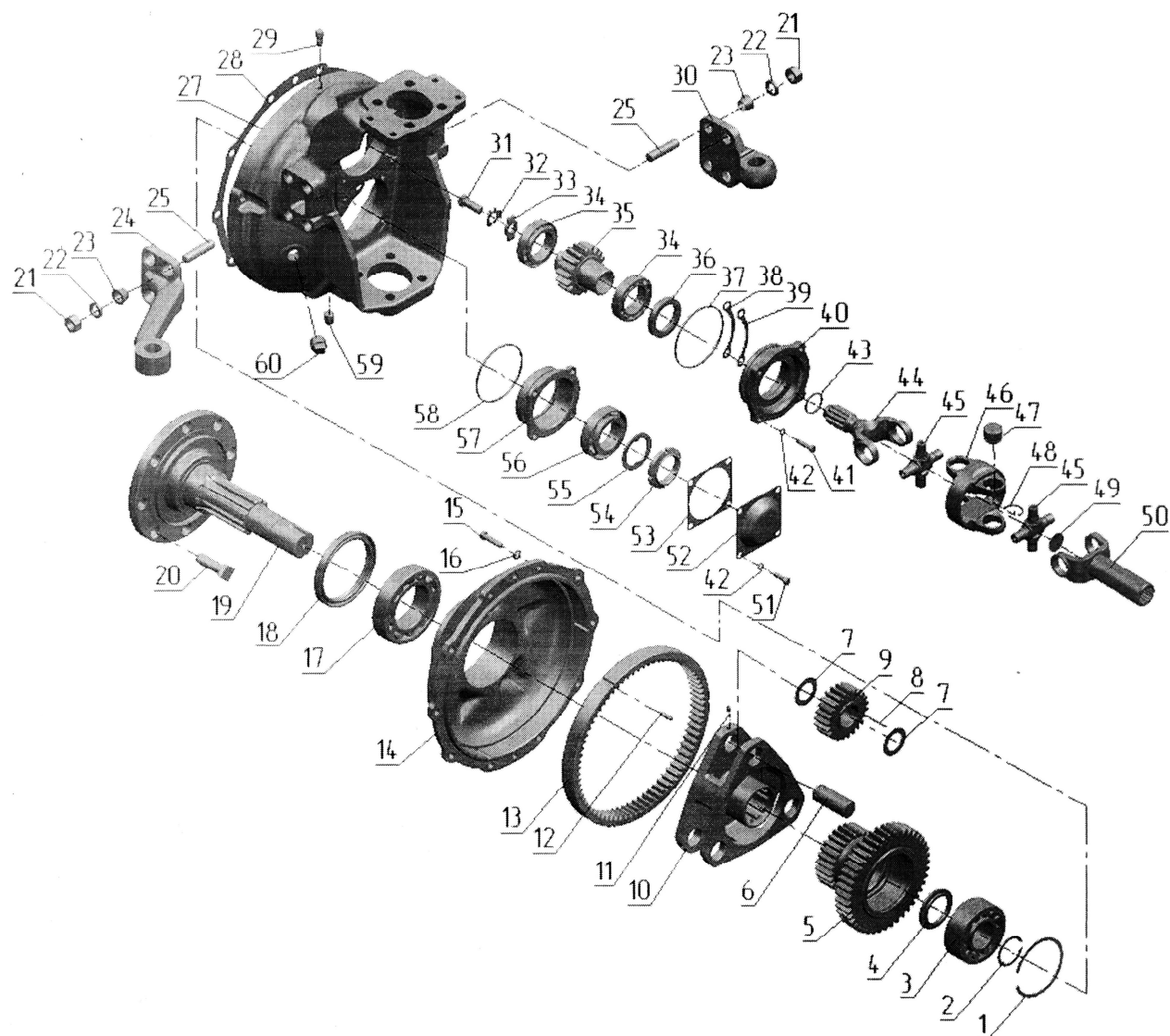


Fig. 23.4 Wheel-hub drive.

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
23.4	36	2.2-45h65-1	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 washer
	39	1520-2308021-01	8(max)	Shim washer
	40	1520-2308035	2	Body
	41		8	Bolt M8-6gh30.88.35.019 GOST 7796-70
	42		16	Washer 8T 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
	46	1520-2308066-01	2	Double yoke
	47	704702KZS10	16	Bearing
	48	34-2201043-01	16(max)	Locking ring
		34-2201043-10	16(max)	Locking ring
		34-2201043-20	16(max)	Locking ring
		34-2201043-30	16(max)	Locking ring
	49	32-10kp.TS9.hr	2	Blind plug GOST3111-81
	50	1520-2308048	2	Yoke
	51		8	Bolt M8-6gh25.88.35.019 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	Body
	58	095-100-30-1-4	2	Ring GOST 18829-73/GOST 9833-73
	59	PK KG 3/8"	2	Plug
	60	PK KG 3/4"	2	Plug

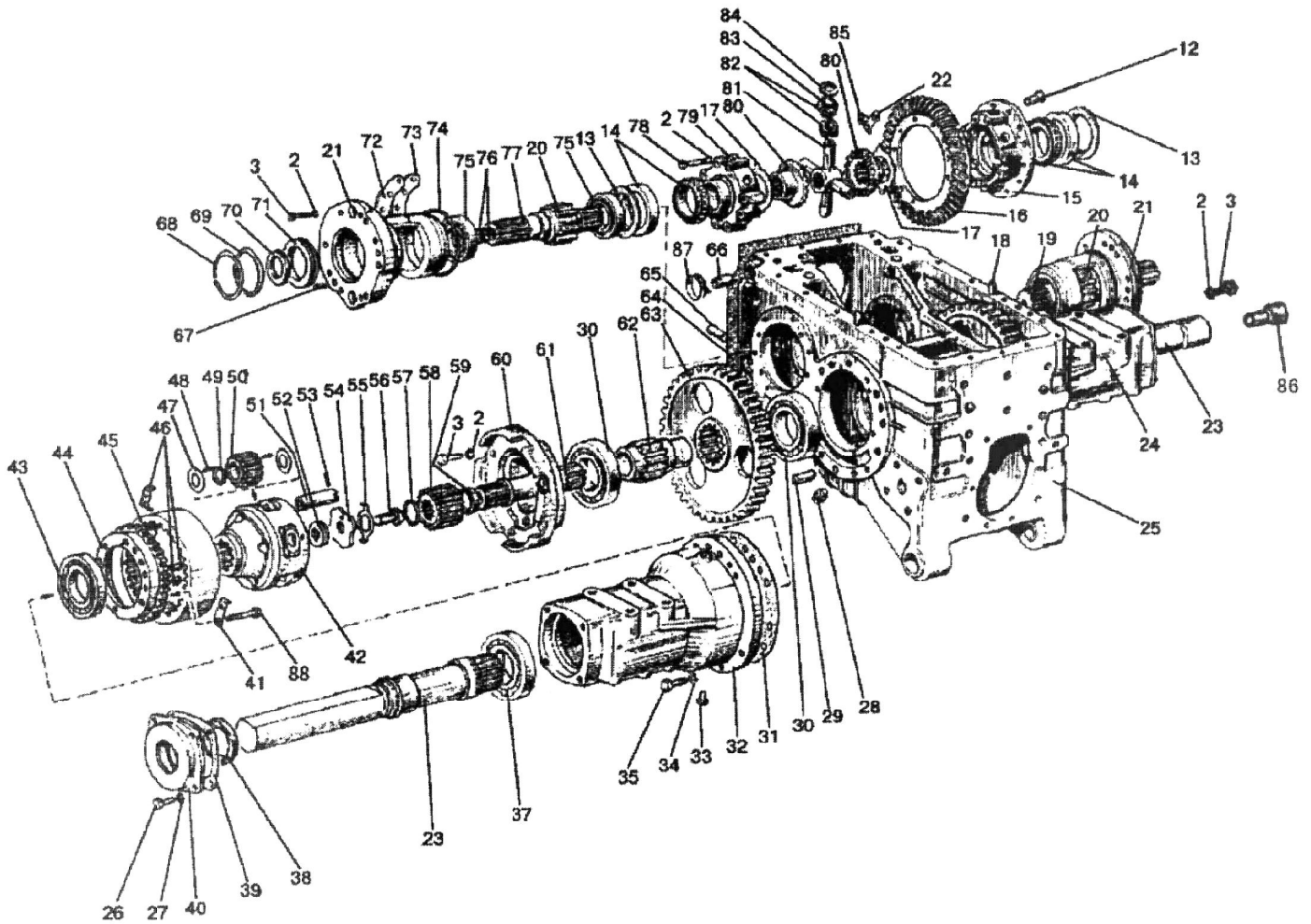
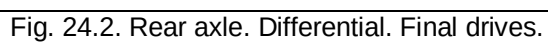


Fig. 24.1 Rear axle. Differential. Final drives.



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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
24.1, 24.2		1220-2401010	1	Rear axle (z=27, Z=54; «dry» brakes)
		1220-2401010-01	1	Rear axle (z=24, Z=56; «dry» brakes)
		1220-2401010-02	1	Rear axle (z=27, Z=54; «wet» brakes)
		1220-2401010-03		Rear axle (z=24, Z=56; «wet» brakes)
		1221-2401015-08	1	Rear axle housing (25, 65, 66, 910)
		1522-2403010-A	1	Differential (2, 12, 14, 16, 17, 22, 78, 80-85)
		1522-2403015-02	1	Differential housing (15, 79)
		1221-2407060-02	1	Left cage (13, 20, 21, 68-71, 74-77) (z=27, Z=54; «dry» brakes)
		1221M-2407060	1	Left cage (13, 20, 74, 75, 77, 89) (z=27, Z=54; «wet» brakes)
		1521-2407060	1	Left cage (13, 14, 20, 21, 74-77) (z=24, Z=56; «dry» brakes)
		1523M-2407060-02	1	Left cage (13, 74, 75, 77, 89) (z=24, Z=56; «wet» brakes)
		1221-2407060-03	1	Right cage (13, 19-21, 68-71, 74-76) (z=27, Z=54; «dry» brakes)
		1221M-2401060-01	1	Right cage (13, 19-21, 74, 75) (z=27, Z=54; «wet» brakes)
		1521-2407060-01	1	Right cage (13, 19-21, 68-71, 74-76) (z=24, Z=56; «dry» brakes)
		1523M-2407060-03	1	Right cage (13, 19-20, 74, 75) (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) («dry» brakes)
		1221-2407500-03	1	Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56) («wet» brakes)
		1221-2407035-A1	2	Carrier (42, 47-51, 53)
		1221-2407030	2	Cover (38, 40)
		1221-2407130	2	Body (30, 60)
		1220-4216080	1	Rod (89-93, 102-105, 109)

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
24.1, 24.2	1	1221-2401028	1	Gasket
	2		24	Washer 12 OT OST 37.001.115-75
	3		24	Bolt M12-6gh35.88.35.019 GOST 7796-70 ("dry" brakes)
		80M-2407041	14	Bolt ("wet" brakes)
	4	8T OST 37.001.115-75	7	Washer
	5		4	Bolt M8-6gh25.88.35.019 GOST 7796-70
	6	600-2401026	2	Bolt
	7		4	Washer 20 OT OST 37.001.115-75
	8	1221-2401026	1	Cover
	9	50-2401027-A	1	Gasket
	10	1220-2401024	1	Cover
	11	1221.1-2401025	1	Gasket
	12	50-1702092	12	Dowel bolt M12h42
	13	1221-2407043	2	Ring
	14	7216 A GOST 27365-87 or SNR 30216 A	2	Bearing
	15	1522-2403018-02	1	Housing
	16	50-2403021-V *	1	Driven gear
	17	1220-2403049	2	Backup plate
	18	D01-015	2	Dowel
	19	1521-2407053-01	1	Shaft («dry» brakes)
		1221M-2407053-01	1	Shaft («wet» brakes)
	20	1221-2407052	2	Gear (z=27)
		1522-2407052	2	Gear (z=24)
	21	1221-2407042	2	Bearing body («dry» brakes)
		1221M-2407042-01	1	Right bearing body («wet» brakes)
		1221M-2407042	1	Left bearing body («wet» brakes)
	22	50-2403023	6	Lock plate
	23	1221-2407082	2	Axle shaft
	24	1221-2407018-B-01	1	Right tube of axle shaft («dry» brakes)
		1221M-2407018-01	1	Right tube of axle shaft („wet“ brakes)
	25	1221-2401016	1	Housing
	26		8	Bolt M10-6gh25.88.35.019 GOST 7796-70
	27		8	Washer 10 OT OST 37.001.155-75
	28	70-1701300	1	Magnetic plug 1 ¹ / ₄ "
	29	1221-2407508-01	4	Dowel
	30		4	Bearing 217 A GOST 8338-75
	31	1221-2407552	2	Gasket
	32	1221-2407018-B	1	Left tube of axle shaft («dry» brakes)
		1221M-2407018		Left tube of axle shaft („wet“ bakes»)

* Is delivered together with gear-shaft 80-1701252-V (set 85-2403014-V "Gears of main drive as set») or with gear-shaft 1222-1701252-V (set 1522-2403014-V-01 "Gears of main drive as set".)

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
24.1, 24.2	33	KG $\frac{1}{8}$ "	2	Plug
	34		22	Washer 16 OT OST 37.001.115-75
	35		22	Bolt M16-6gh60.88.35.019 GOST 7795-70
	37		2	Bearing 7218 A GOST 27365-87
	38		2	Collar 2.2-90h120-1 GOST 8752-79/OST 3805146-78
	39	1221-2407089	2	Gasket
	40	1221-2407028	2	Cover
	41	1221-2407503-A	4	Plate
	42	1221-2407536-B	2	Carrier
	43		2	Bearing 7217 A GOST 27365-87
	44	1221-2407502-B	2	Epicycle hub
	45	5336-2405050-A	2	Driven gear
	46	1221-2407512	4	Dowel
		1221-2407504	8	Plate
		54.38.619	4	Locking ring
	47	1221-2407538	16	Planet pinion washer
	48		368	Roller 5h27,8 A3 GOST 6870-81
	49	1221-2407539	8	Distance washer
	50	5336-2405035-A	8	Planet pinion
	51	1221-2407556-A	8	Planet pinion axle
	52	1221-2407506	12	Gasket 0,5 mm
		1221-2407506-01	12	Gasket 0,2 mm
	53		8	Dowel A.8h45.65G GOST 14229-93
	54	1221-2407537	2	Washer
	55	1221-2407507	2	Washer
	56	70-4605036	2	Bolt
	57	2S55 GOST 13940-86	2	Ring
	58	5336-2405028-A	2	Drive gear
	59	1221-2407542	2	Bushing
	60	1221-2407131	2	Body
	61	1221-2407541	2	Shaft
	62	1221-2407123	2	Bushing
	63	1221-2407122	2	Driven gear (Z=54)
		1522-2407122	2	Driven gear (Z=56)
	64	80-2401016	2	Gasket
	65	50-4605027	1	Dowel
	66	36-3502037-A	2	Bushing
	67	50-1601352	4	Dowel («dry» brakes)
		80M-2407039	4	Dowel («wet» brakes)
	68		2	Ring («dry» brakes) S125 GOST 13943-86
	69	115-120-30-1-4 GOST 18829-73/GOST 9833-73	2	Ring («dry» brakes)
	70	2.2-52h75-1 GOST 8752-79/OST 3805146-78	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 GOST 18829-73/GOST 9833-73 or 200-205-36-2-2 GOST 18829-73/GOST 9833-73	2	Ring

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
24.1, 24.2	75	311 A GOST 8338-75 or 6-311 ASH1 GOST 8338-75	4	Bearing
	76	035-040-30-1-4 GOST 18829-73/GOST 9833-73	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	Side gear
	81	1522-2403062-B	1	Cross
	83		100	Roller 4h29,8 A3 GOST 6870-81
	84	1522-2403025-B	4	Planet pinion washer
	85		12	Nut M12-6gh35.88.35.019 GOST 7796-70
	86	50-4216024	1	Bushing
	87		2	Collar 2.2-25h42-1 GOST 8752-79/OST 3805146-78
	88	1221-2407505	24	Bolt
	89	50-1310136-A-01	1	Handle
	90		1	Nut M8-6N.6.019 GOST 5915-70
	91	1220-4216081	1	Rod
	92		1	Washer S.8.01.019 GOST 11371-78
	93		1	Split pin 3,2h18.019 GOST 397-79
	94		1	Bolt M10-6gh20.88.35.019 GOST 7796-70
	95		1	Washer 10 OT OST 37.001.115-75
	96	100H-2401020-01	1	Shaft with carrier
	97		1	Bolt M8-6gh20.88.35.019 GOST 7796-70
	98		1	Washer 8T OST 37.001.115-75
	99	100H-2401024	1	Lever
	100	1220-2807045	1	Axle flange
	101		2	Ring 020-025-30-1-4 GOST 18829-73/GOST 9833-73
	102	50-1103031-01	1	Housing
	103		3	Screw V.M4-6gh8.58.019 GOST 17473-80
	104		3	Washer 4 OST 37.001.115-75
	105		3	Nut M4-6N.6.019 GOST 5927-70
	106	1221-2400030	1	Connecting pipe
	107		2	Bolt M8-6gh30.88.35.019 GOST 7796-70
	108		1	Ring017-022-30-1-4 GOST 18829-73/GOST 9833-73
	109	85-2807093	2	Sealant

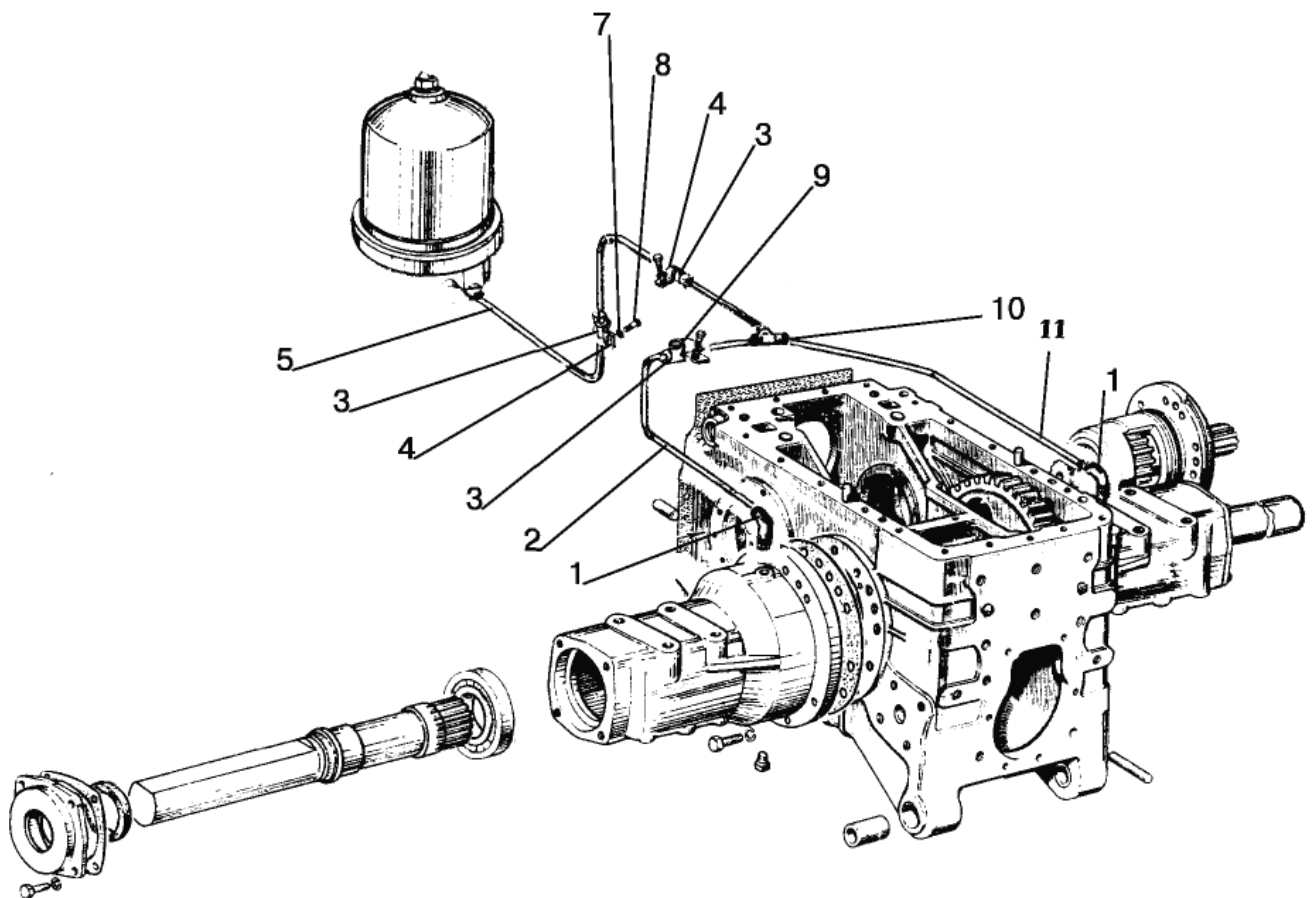


Fig. 24.3 Final drive (lubrication)

BELARUS **1221.5****Group 24. Rear axle**
Subgroup 2401. Final drive (lubrication)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
24.3	1	86-1802088	2	Angle piece
	2	1522-2407330	1	Oil pipeline
	3	1522-2407317	3	Pipe
	4	70-4802046	2	Clamp
	5	1522-2407310	1	Oil pipeline
	7		1	Washer 10 OT OST 37.001.115-75
	8		1	Bolt M10-6gh20.88.35.019 GOST 7796-70
	9	70-4802043	1	Clip
	10	1221-2407288-02	1	T-piece
	11	1522-2407320	1	Oil pipeline

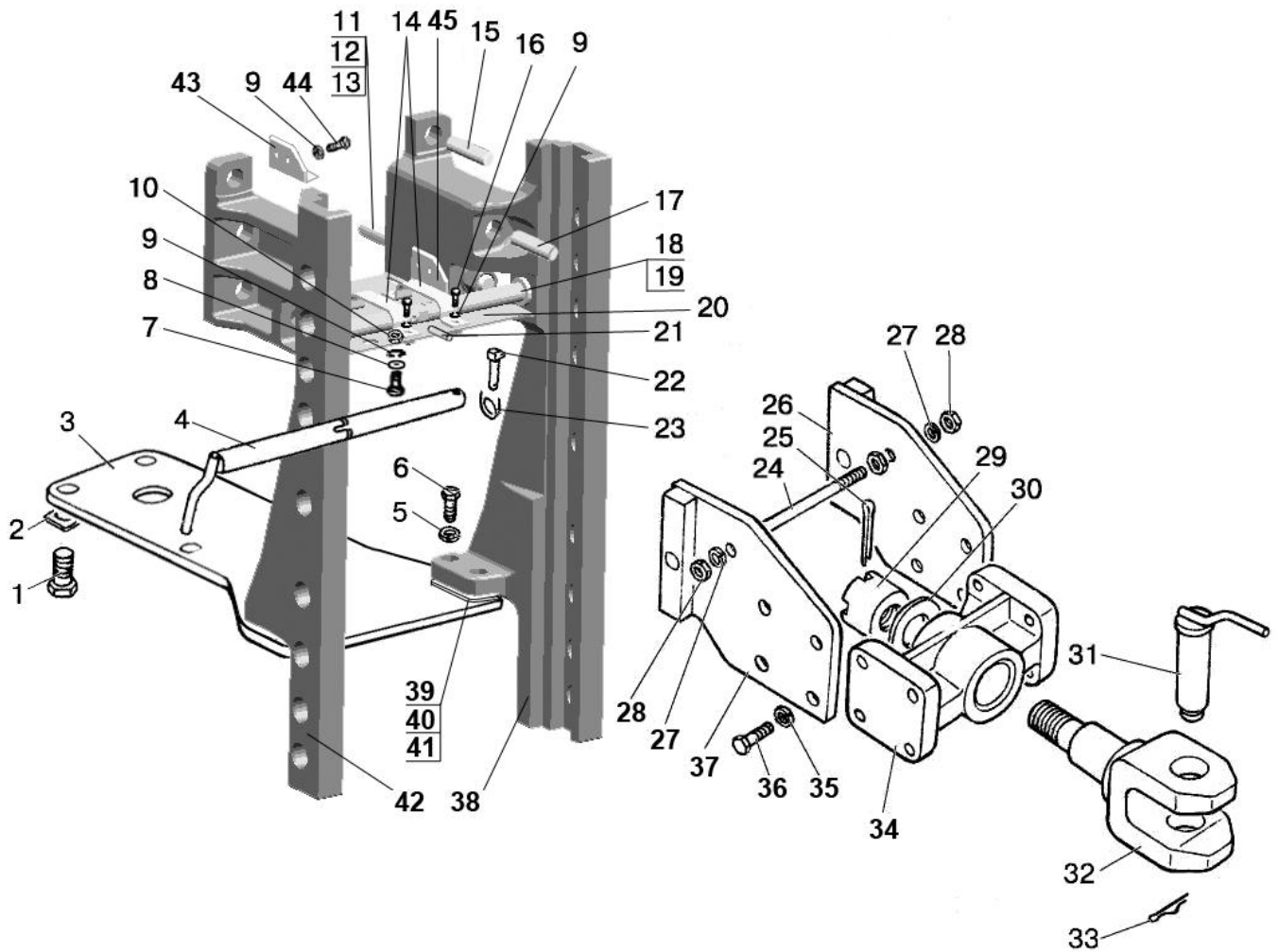


Fig. 27.1. Drawbar hitch

Group 27. Drawbar hitch
Subgroup 2707. Drawbar hitch

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
27.1		1322-2707210	1	Drawbar hitch
	1	1321-2707014	4	Bolt
	2	1222-2707137	2	Plate
	3	1321-2707011-B	1	Plate
	4	1321-2707030	1	Pin
	5		4	Washer 16 OT OST 37.001.115-75
	6	1220-4605506	4	Bolt
	7		1	Bolt M6-6gh18.88.35.019 GOST 7798-70
	8	SHSH 6	1	Washer
	9		9	Washer 6 T OST 37.001.115-75
	10		1	Nut M6-6N.6.019 GOST 5915-70
	11	921-2707068-02	2	Stud
	12		6	Nut M20h1,5-6N.6.019 GOST 5915-70
	13		6	Washer 20 OT OST 37.001.115-75
	14	1321-2707083-B	2	Clip
	15	921-2707068	2	Stud
	16		4	Bolt M6-6gh12.88.35.019 GOST 7798-70
	17	921-2707068-03	2	Stud
	18	1322-2707274	1	Buckle
	19	1322-2707211	1	Bushing
	20	1322-2707280	1	Splash plate assy
	21		1	Dowel A.6h30.65G GOST 14229-93
	22	A61.05.005	1	Cotter key
	23	A61.05.004	1	Ring
	24	1522-2707244	1	Buckle
	25	6,3h63	1	Split pin
	26	1321-2707070-B-01	1	Plate
	27		2	Washer 16 OT OST 37.001.115-75
	28		4	Nut M16-6N.6.019 GOST 5915-70
	29	1522-2707243	1	Nut
	30	1522-2707242	1	Washer
	31	1522-2707079-A	1	Pin
	32	921-2707055	1	Yoke
	33	A61.07.001-A	1	Split pin
	34	1321-2707051-B	1	Bracket
	35		8	Washer 20 OT OST 37.001.115-75
	36	680-2707024	8	Bolt
	37	1321-2707070-B	1	Plate
	38	1322-2707261	1	Side member
	39	900-2707135	2 (max.)	Plate
	40	900-2707135-01	2 (max.)	Plate
	41	900-2707135-02	2 (max.)	Plate
	42	1322-2707261-01	1	Side member
	43	1322-2707262-01	1	Bracket
	44		4	Bolt M6-6gh16.88.35.019 GOST 7798-70
	45	1322-2707262	1	Bracket

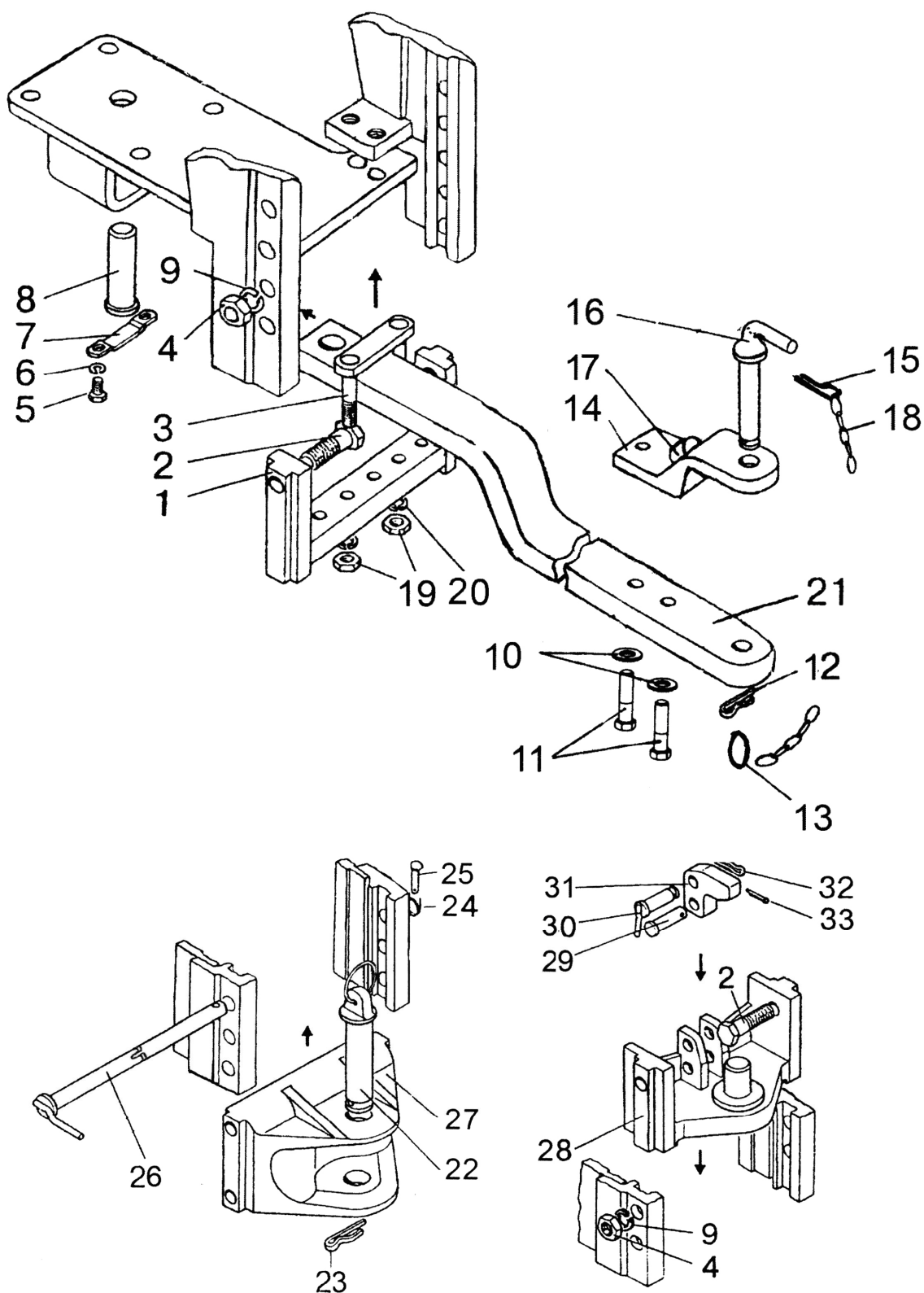


Fig. 27.2. Drawbar hitch (configuration variants)

Group 27. Drawbar hitch
Subgroup 2707. Drawbar hitch (configuration variants)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
27.2		1321-2707150-B1	1	Link (11-19, 25)
		1322-2707160	1	Python (40-44, 46)
	1	1322-2707130-B	1	Crossbar
	2	1322-2707133	4	Bolt
	3	1322-2707120-B1	1	Clip
	4		4	Nut M20h1,5-6N.04.019 GOST 15522-70
	5	M10	2	Bolt
	6		2	Washer 10 OT OST 37.001.115-75
	7	1522-2707126	1	Plate
	8	1522-2707127	1	Axle
	9		4	Washer 20 OT OST 37.001.115-75
	10	1523-2707146	2	Washer
	11	1523-2707149-B	2	Bolt
	12	A61.07.001-A	1	Split pin
	13	N50-4202146	1	Ring
	14	1523-2707143	1	Strap
	15	3,2h25	1	Split pin
	16	1522-2707079-A	1	Pin
	17	1523-2707142	1	Clip
	18	70-4235035	2	Chain
	19		2	Nut M16-6N.6.019 GOST 5915-70
	20		2	Washer 16 OT OST 37.001.115-75
	21	1321-2707144-B1	1	Link
	22	1321-2707140-B	1	Pin
	23	1321-27070342	1	Split pin
	24	A61.05.004	1	Ring
	25	A61.05.005	1	Cotter key
	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	Limit stop
	32	A61.07.001	1	Split pin
	33	4h36	1	Split pin

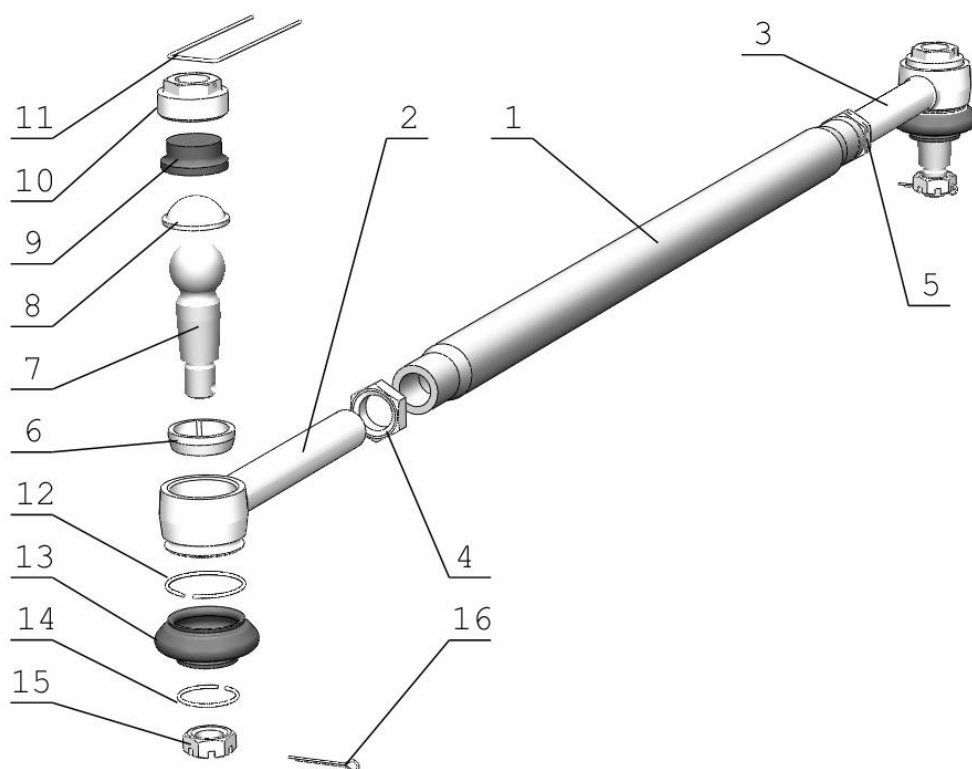


Fig.30.1 Steering link

Subgroup 3003. Steering link

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
30.1		822-3003010-01 or 822-3003010-A-01	1	Steering link (1-15)
		822-3003020 or 822-3003020-02*	1	Right joint (2, 6-14)
		822-3003020-01 or 822-3003020-03*	1	Left joint (3, 6-14)
	1	1220-3003011	1	Pipe
	2	1220-3003022	1	Right joint housing
	3	1220-3003022-01	1	Left joint housing
	4	1220-303013	1	Locknut
	5	1220-3003013-01	1	Locknut
	6	1220-3003023	2	Upper insert
	7	1220-3003021	2	Ball pin
	8	1220-3003027	2	Insert
	9	1220-3003028	2	Lower insert
	10	50-3003018-B or 822-3003018*	2	Plug
	11	Wire 2,0-O-C	2	Wire L=270 mm
	12	1220-3003024	2	Ring
	13	1220-3003025-A or 1220-3003025-A1*	2	Cover
	14	1220-3003029	2	Ring
	15	M20x1,5 GOST 5919	2	Nut
	16	Split pin 4x36	2	Split pin

* - for steering link 822-3003010-A-01

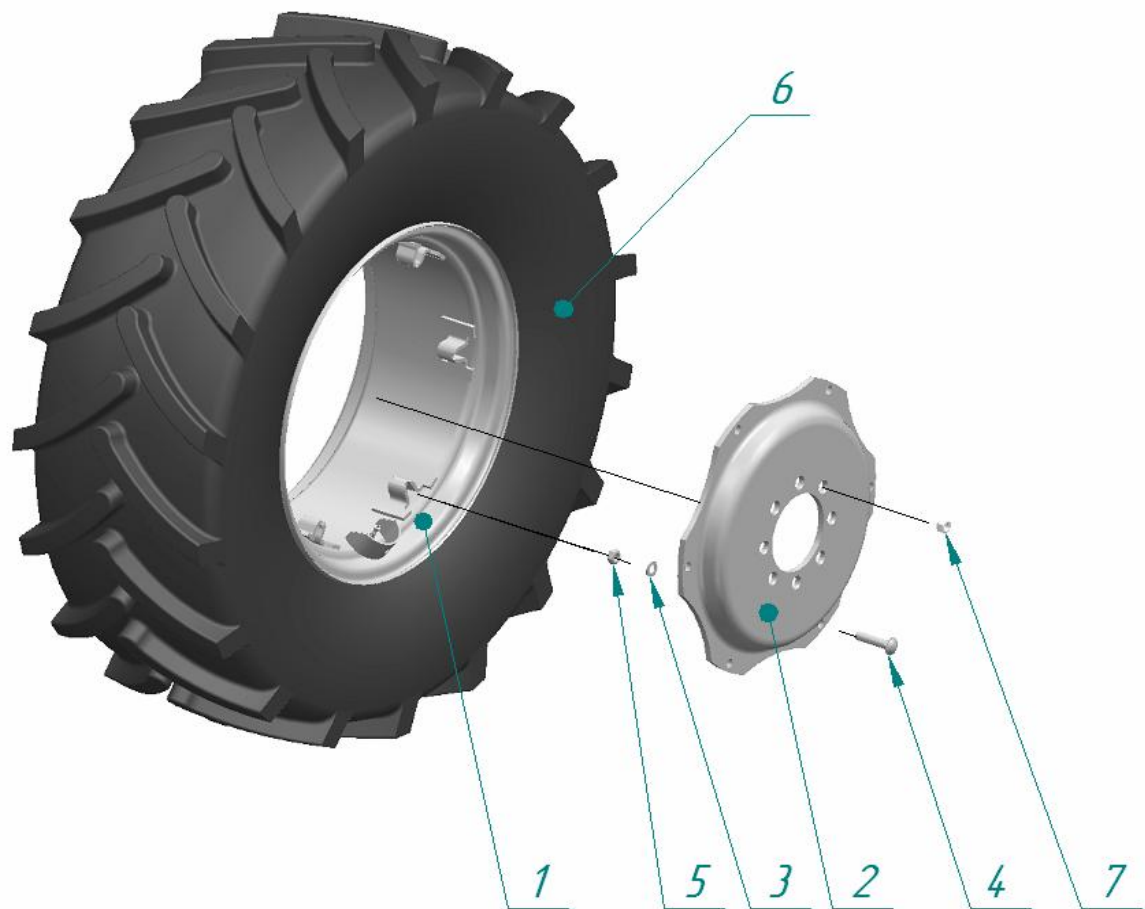


Fig. 31.1 Front driving wheels

BELARUS**1221.5**

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
31.1		1221-3101010-01 1221-3101010	2	Wheel (with tire 420/70R24) (1-6) or Wheel (with tire 14.9R24) (1-6)
		W12-24-3101020-01 or 880.3101012-01	2	Wheel W12h24 (1, 2, 3, 4, 5)
	1	W12-24-3101035	2	Rim W12h24 with brackets
	2	W12-24-3101017	2	Disc
	3	52-2301065	12	Washer
	4	1221-3101011	12	Bolt
	5	1221-3101013 or M16h1.5-6N.10.019	12	Nut Nut GOST 5915-70
	6		2	Tire 420/70R24 or 14.9R24
	7	40-3103017-01	16	Nut

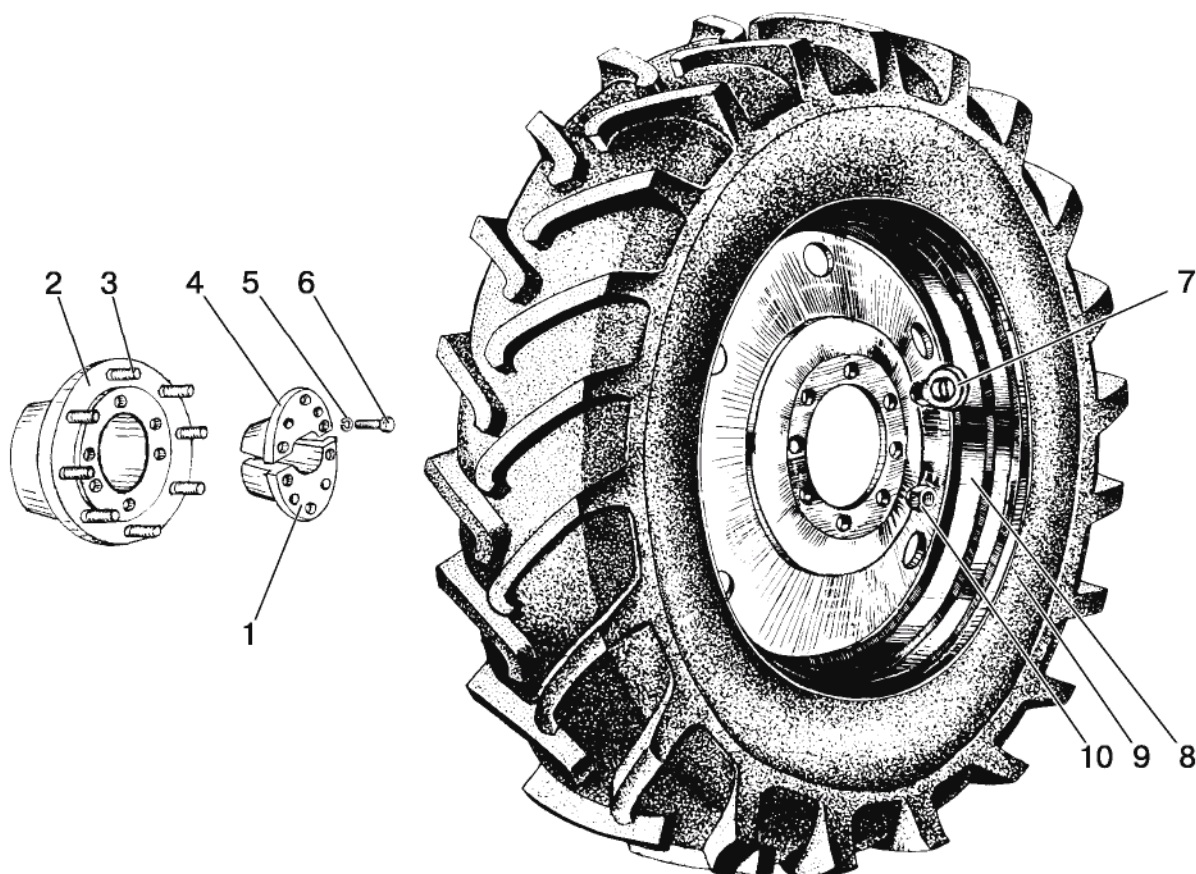


Fig. 31.2 Rear driving wheels. Rear wheel hubs

**Group 31. Wheels and hubs
Subgroup 3104.Rear wheel hubs
Subgroup 3107. Rear driving wheels**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
31.2		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	SHP 20	6	Washer
	6	70-4605036	6	Bolt
	7	70-3104019	2	Special nut
		1221-3107010*	2	Wheel 18.4R38 (assembled with tire) (8, 9)
	8	DW15Lh38-3107020 or 8746.3107012P3	2	Wheel DW15Lh38
	9		2	Tire 18.4R38
		72-3107010**	2	Wheel 16.9R38 (assembled with tire) (8, 9)
	8	DW15Lh38-3107020 or 8746.3107012P3	2	Wheel DW15Lh38
	9		2	Tire 16.9R38
	10	36-3104019	7	Nut

* For tractors with FDA 1222-2300020-05

** For tractors with FDA 1222-2300020

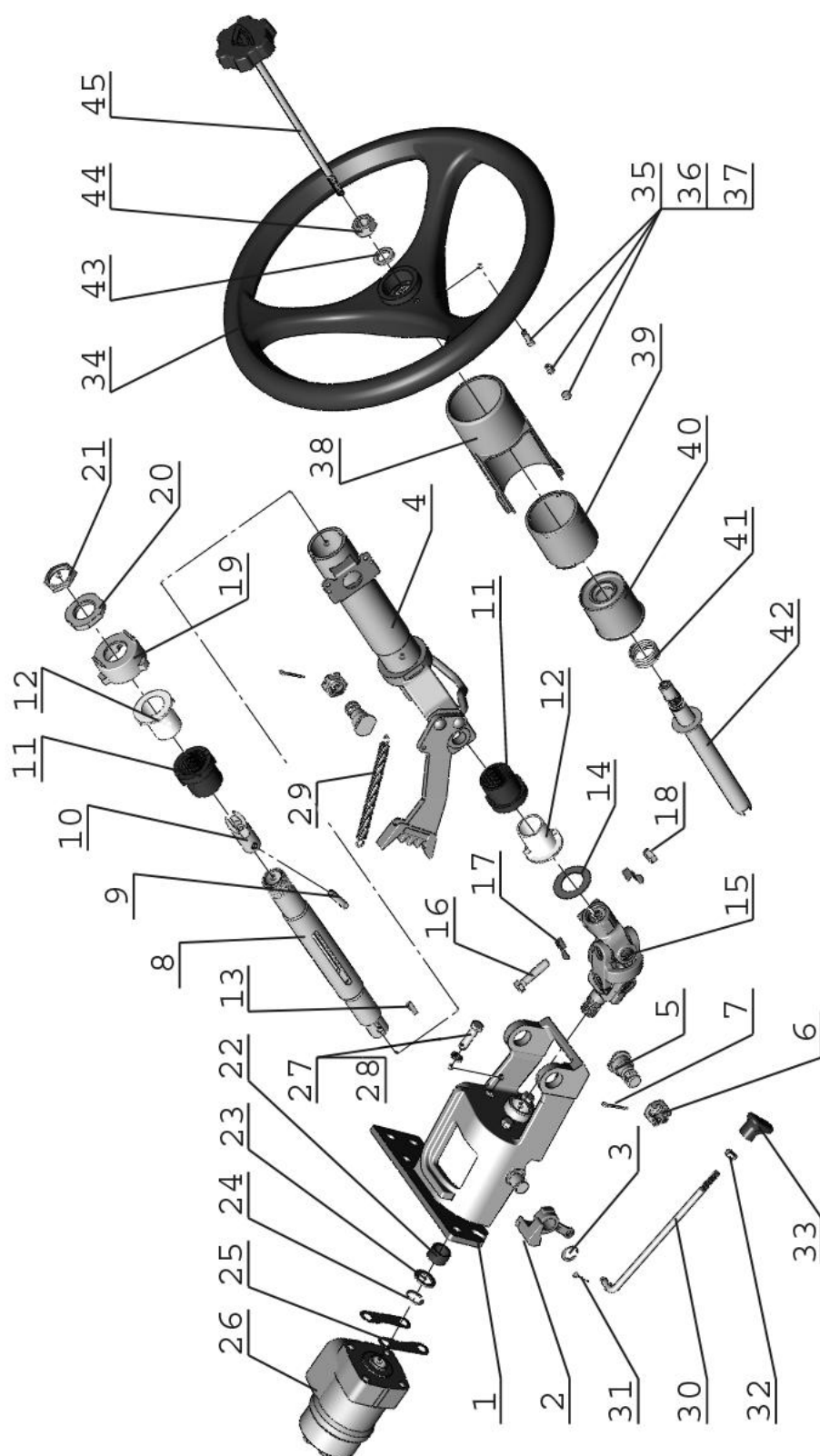


Fig. 34.1. Steering column

Group 34. Steering
Subgroup 3401. Steering column

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.1		85-3401010	1	Steering column (1-24, 29)
		70-3401050-B	1	Shaft (8-10)
	1	85-3401120	1	Bracket
	2	85-3401014-01	1	Holder
	3		1	Ring S18 GOST 13940-86
	4	85-3401080	1	Pipe
	5	85-3401011	2	Screw
	6	70-3003032	2	Nut
	7	4x25	2	Split pin
	8	70-3401055	1	Intermediate shaft
	9	SHTSK 8h36	1	Dowel
	10	70-3401054-B	1	Shaft end
	11	70-3401077-B	2	Shock adsorber
	12	70-3401076	2	Bushing
	13	SSH-510	1	Segment key 5x10
	14	600-3401012	1	Washer
	15	85-3401150	1	Cardan
	16	M10h45	1	Bolt
	17	80-3401013	2	Washer
	18	M10	1	Nut
	19	80-3709022	1	Bump stop
	20	70-3401078	1	Nut
	21	70-3401079	1	Locknut
	22	85-3401016	1	Bushing
	23	80-3401019	1	Washer
	24		1	Ring S20 GOST 13940-86
	25	85-3401002	mah.12	Gasket
	26	OSPC160 ON150G0030 or HKUS 160/4-140HP-02/3 or SUB 160.140-200-1 or D 160-14.20-02 or LAGC 160N12/200-140M01- 708S or 1231 160 B ON.PMI	1	Dosing pump
	27	M10h35	4	Bolt
	28	10 OT	4	Washer
	29	50-1310158-B	1	Spring
	30	822-3401001-03	1	Rod
	31	2x16	1	Split pin
	32	M8	1	Nut
	33	70-4803060	1	Handle
	34	85-3402015 or 70-3402015- A1/A2	1	Steering wheel
	35	822-3401171	1	Pin
	36	822-3401172	1	Spring
	37	822-3401173	1	Plug
	38	80-3709024	1	Cover
	39	80-3709025	1	Inner bushing

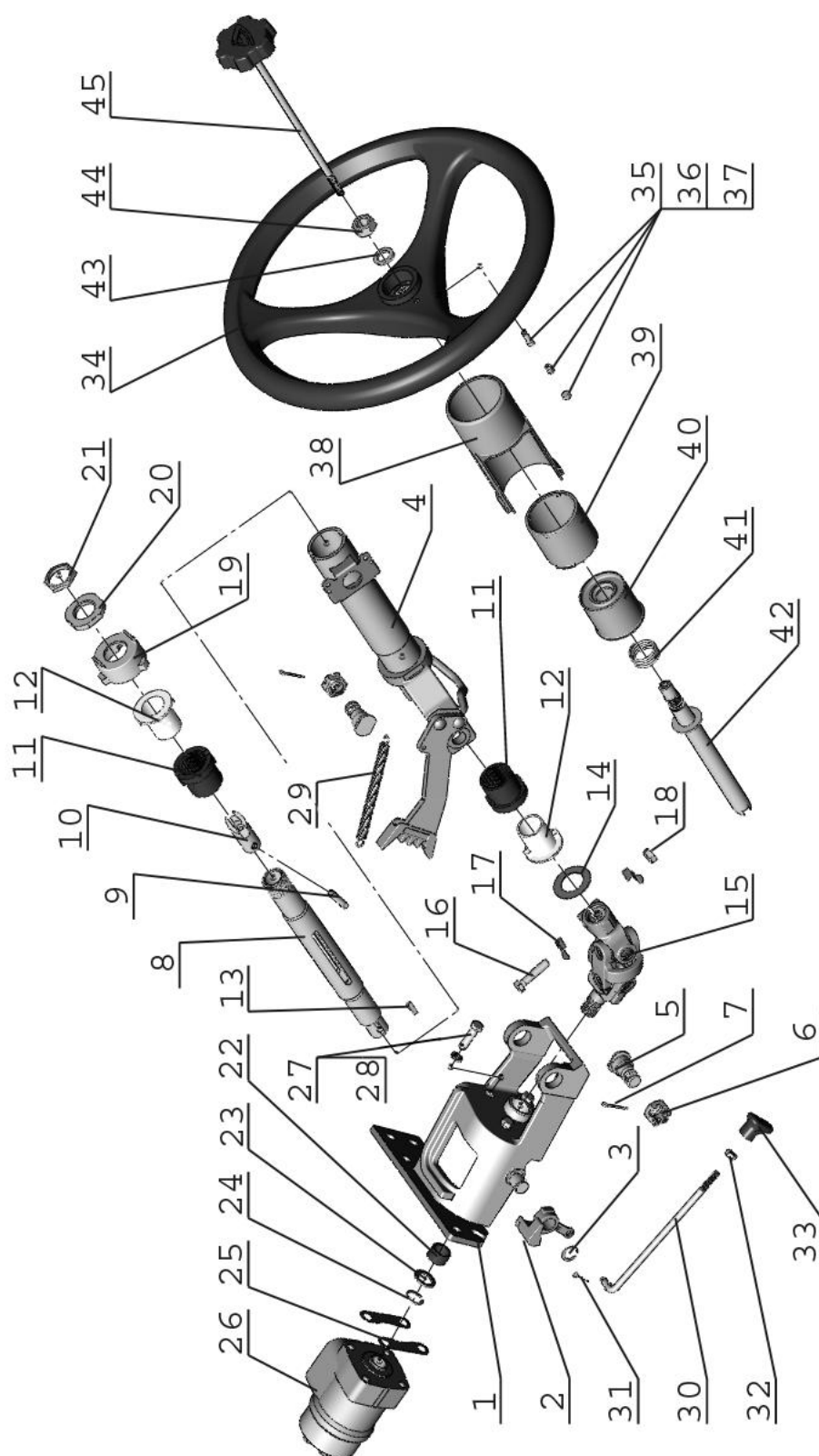


Fig. 34.1. Steering column

Group 34. Steering
Subgroup 3401. Steering column

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.1	40	80-3709026-B	1	Center bushing
	41	50-4608057	1	Spring
	42	85-3401175	1	Shaft
	43	16 L	1	Washer
	44	M16x1,5	1	Nut
	45	822-3401140-A1	1	Clamp

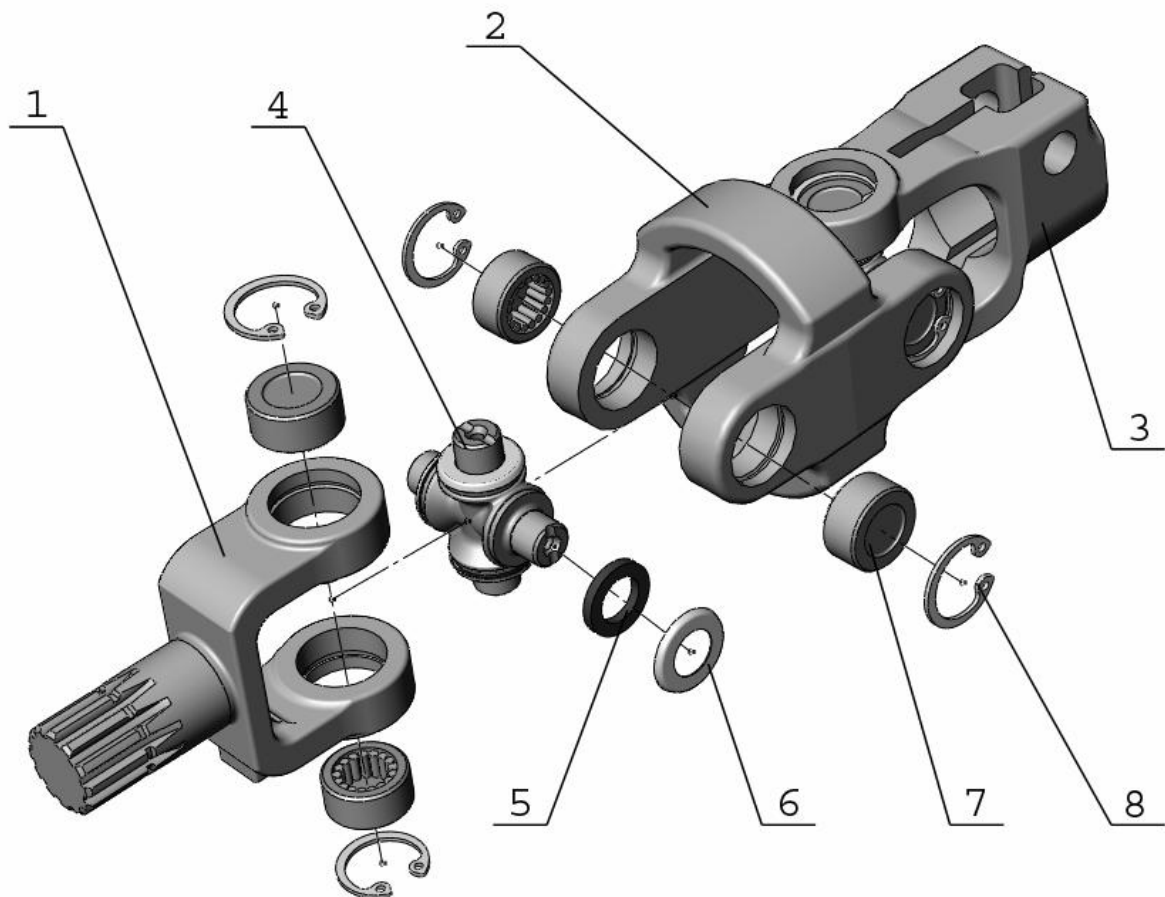


Fig. 34.2 Cardan

Group 34. Steering
Subgroup 3401. Cardan

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.2		85-3401150	1	Cardan
	1	85-3401156-B	1	Yoke
	2	85-3401067	1	Yoke
	3	50-3401061-A	1	Yoke
	4	50-3401062	2	Cross
	5	50-3401064	8	Gland seal
	6	50-3401063	8	Cage
	7	904700 US17	8	Bearing
	8		8	Ring S19 GOST 13943-86

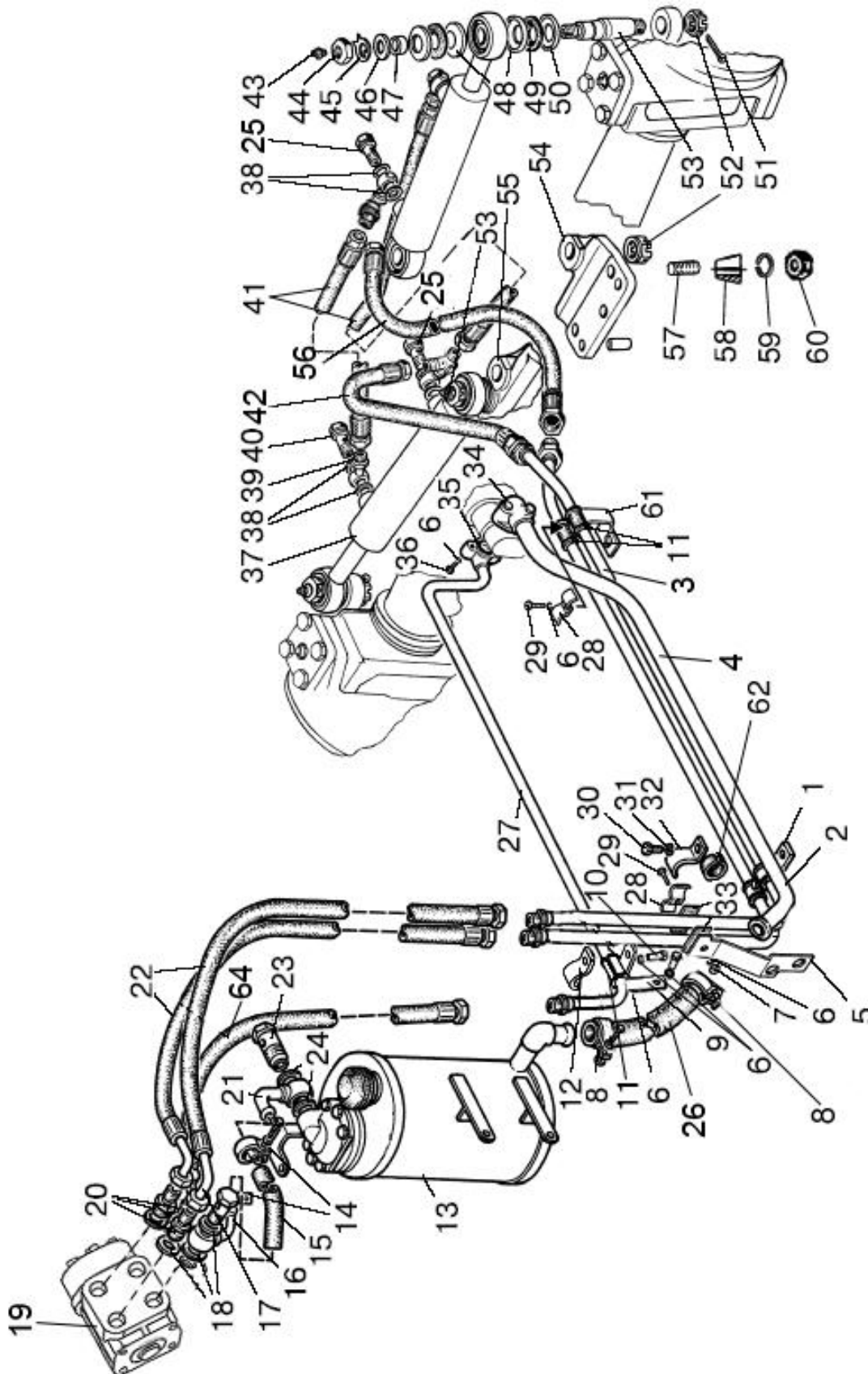


Fig. 34.3 Hydrostatic power steering

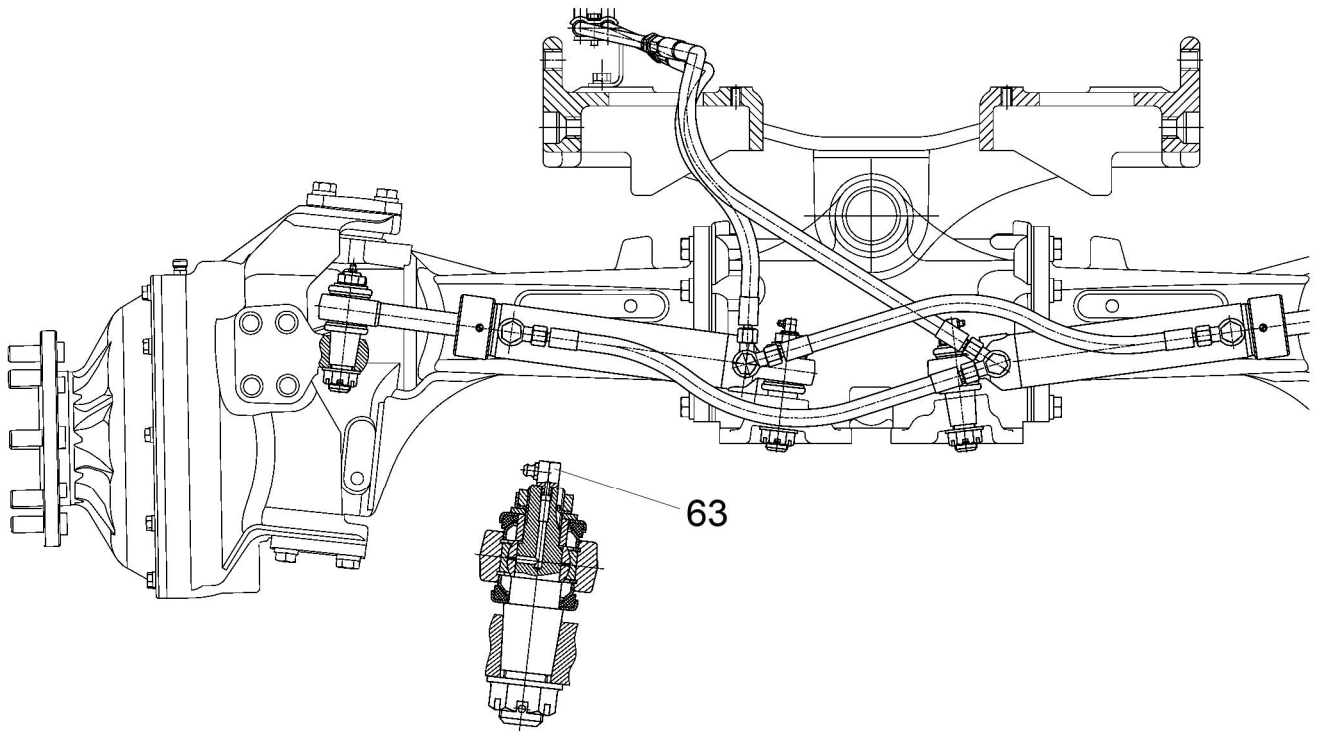


Fig. 34.4 Hydrostatic power steering (continuation)

Group 34. Steering
Subgroup 3407. Hydrostatic power steering

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.3 34.4		1221-3400010-B	1	Hydrostatic power steering
	1	85-3407107	1	Strip
	2	1221-3407030	1	Oil pipeline
	3	1221B-3407050 -B	1	Oil pipeline
	4	1221B-3407040*B	1	Oil pipeline
	5	80B-3407012	1	Bracket
	6		8	Washer 8T OST 37.001.115-75
	7		1	Nut M8-6N.6.019 GOST 5915-70
	8	5000.04	2	Clamp "NORMA" TORRO 25-40/9-C6W or Clamp/Clamp NORMA TORRO 25-40/971
	9	1221-3407013	1	Bracket
	10		1	Bolt M8-6gh20.88.35.019 GOST 7796-70
	11	70-3506027	5	Bushing
	12	70-3407163	1	Clip
	13	1221-3407200	1	Oil tank
	14	5000.03	2	Clamp "NORMA" TORRO 20-32/9-C6W or Clamp/Clamp NORMA TORRO 20-32/971
	15	952-3407014-12	1	Hose
	16	85-3407105-02	1	Bolt
	17	1221-3407090	1	Oil pipeline
	18	RM 1/2	5	Washer
	19	HKUS 160/4-140 HP-02/3 or 123/160BON.PMI	1	Dosing pump
	20	F80-3407134	3	Fitting
	21	2522V-3407085-01	1	Oil pipeline
	22	680-4607140-06	2	High-pressure hose
	23	1221-3407140 -A	1	Valve
	24	RM 24	2	Washer
	25	2022-3407301	2	Bolt
	26	1321-3407018-01	1	Hose
	27	1221-3407020	1	Oil pipeline
	28	70-3407146	3	Strip
	29		3	Bolt M8-6gh30.88.35.019 GOST 7796-70
	30		1	Bolt M10-6gh25.88.35.019 GOST 7796-70
	31		1	Washer 10 OT OST 37.001.115-75
	32	102-3407014	1	Clip
	33	70-4607158	2	Gasket
	34		2	Bolt M8-6gh40.88.35.019 GOST 7795-70
	35		2	Ring 017-022-30-1-4 GOST 18829-73/GOST 9833-73
	36		2	Bolt M8-6gh35.88.35.019 GOST 7796-70
	37	TS50-3405215 -A	2	Hydraulic cylinder
	38	RM 3/8	10	Washer
	39	2022-3407202-A	6	Rotary angle piece
	40	F80-3407301	2	Bolt
	41	952-3407100-12	2	High-pressure hose
	42		1	ØØ f 8h1 952-3407100-04
	43		4	Oiler 1.1.TS9.hr GOST 19853-74
	44		4	Nut M20h1,5-6N.04.019 GOST 15522-70
	45	F80-3405103	4	Lock washer
	46		4	Washer S.20.01.019 GOST 11371-78

Group 34. Steering
Subgroup 3407. Hydrostatic power steering

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.3 34.4	47	F80-3405102-V	4	Bushing
	48	F80-3405107	8	Spherical bushing
	49	F80-3405109	8	Joint sealant
	50	F80-3405108	8	Sealant pinion cage
	51		4	Split pin 4h36.019 GOST 397-79
	52	70-4605316	4	Nut
	53	102-3405103	4	Pin
	54	1222-2301021-B	1	Bracket
	55	1222-2301022-B	1	Bracket
	56		1	High-pressure hose F8h1 952-3407100-08
	57	1520-2308079	4	Stud
	58	1520-2308077	4	Conical plug
	59		4	Washer 16 OT OST 37.001.115-75
	60		4	Nut M16-6N.6.019 GOST 5915-70
	61	1221-3407101	1	Bracket
	62	70-4607158-01	1	Gasket
	63	F80-3405112	2	Reducing sleeve
	64	1522V-3407100-07	1	High-pressure hose Ø 12,5h2

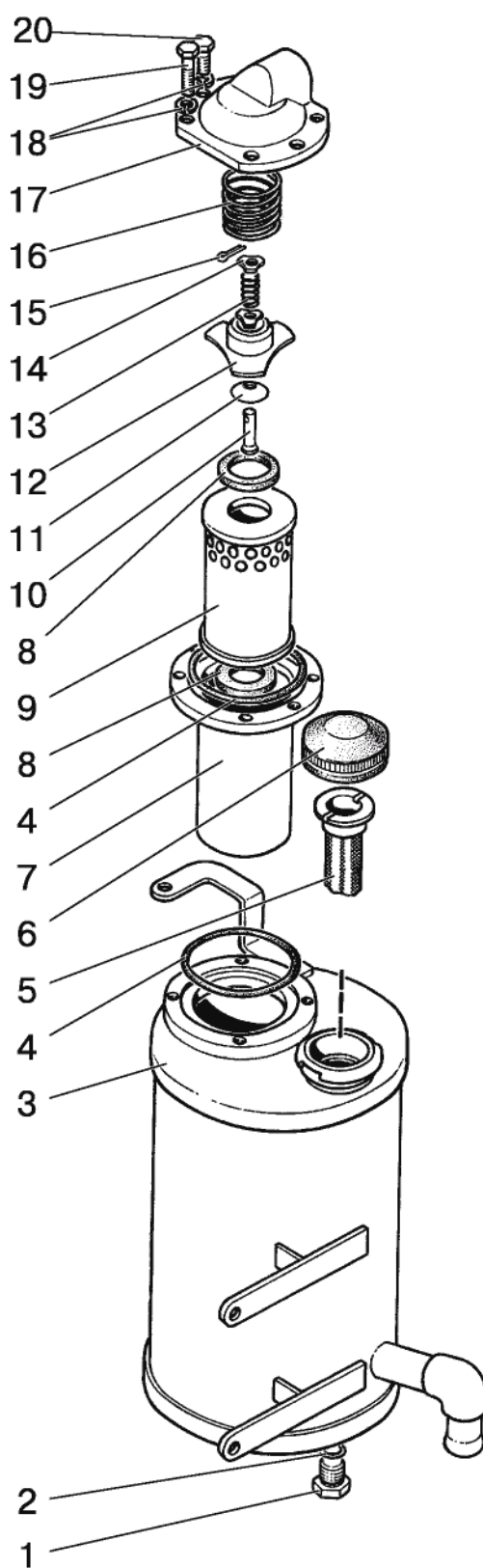


Fig. 34.5 Oil tank

**Group 34. Steering
Subgroup 3407. Oil tank**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.5		1221-3407200	1	Oil tank (1-2)
	1	50-4608027-V	1	Plug
	2		1	Ring 017-021-25-2-2 GOST 18829-73/GOST 9833-73
	3	1221-3407210	1	Tank
	4		2	Ring 075-080-30-1-4 GOST 18829-73/GOST 9833-73
	5	A61-C06-A3	1	Filter
	6	240-3707200	1	Plug
	7	220-4608060	1	Body
	8	80-4608024	2	Ring
	9	601T-1-06	1	Filtering element
	10	320-4608082	1	Rod
	11	320-4608083	1	Spherical valve
	12	320-4608085	1	Valve housing
	13	80-3405044	1	Spring
	14	320-4608081	2	Backup plate
	15		1	Split pin 2h12.019 GOST 397-79
	16	50-4608057	1	Spring
	17	220-4608051-01	1	Cover
	18		6	Washer 6 T OST 37.001.115-75
	19		4	Bolt M6-6gh25.88.35.019 GOST 7798-70
	20		2	Bolt M6-6gh16.88.35.019 GOST 7798-70

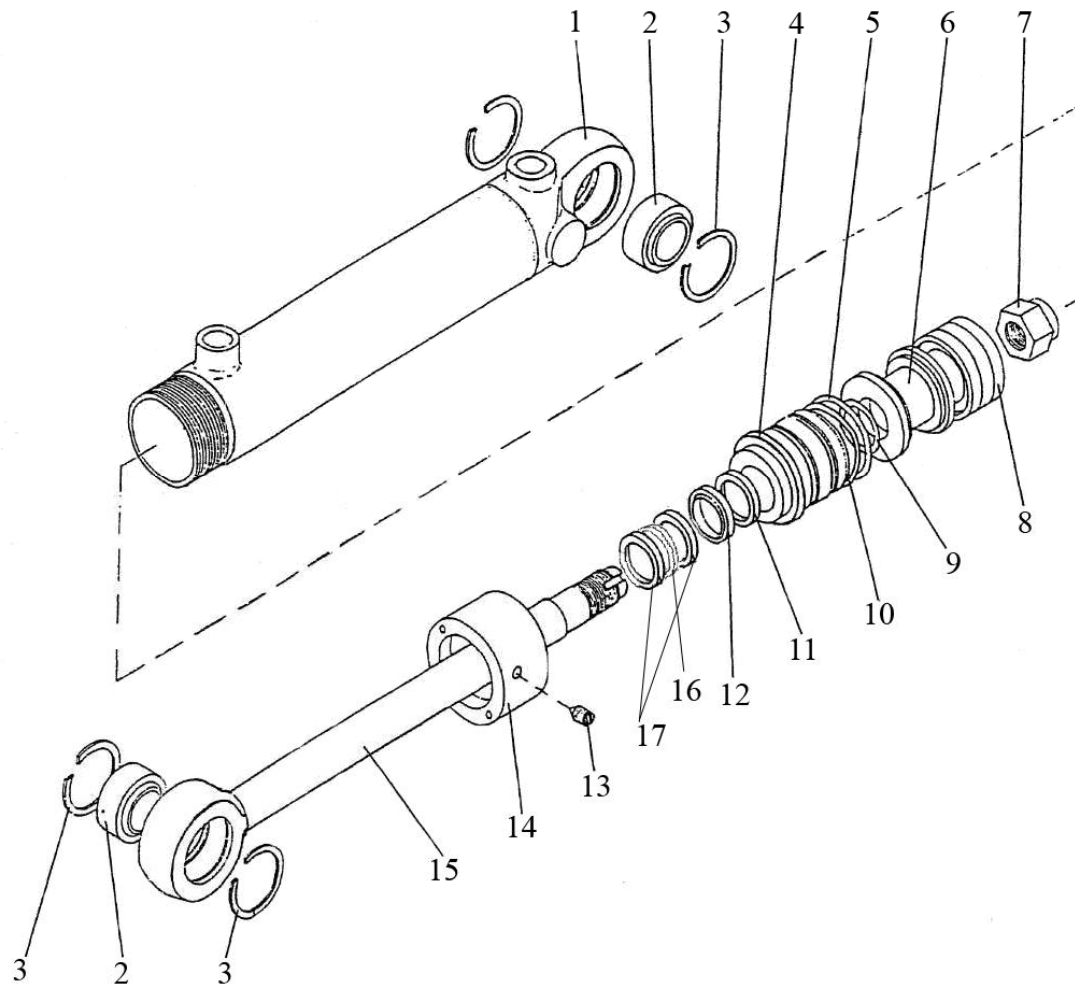


Fig. 34.6 Hydraulic cylinder 50h25-200

Group 34 Steering
Subgroup 3405. Hydraulic cylinder 50x25-200

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
34.6		TS50-3405215-A	1	Hydraulic cylinder 50x25-200 (2-16)
	1	TS50-3405220	1	Cylinder housing
	2		2	Bearing SHS-25 GOST 3635-78
	3		4	Ring S42 GOST 13941-86
	4	TS50-3405218-B	1	Front cover
	5		2	Ring 045-050-30-1-4 GOST 18829-73/GOST 9833-73
	6	TS50-3405223-B	1	Piston
	7	TS50-3405222	1	Piston nut
	8	24 251797 L43 50-34 -20,5* or RSV0V0500-NCRO 50h34h20,5**	1	Piston seal
	9		1	Ring 025-028-19-1-4 GOST 18829-73/GOST 9833-73
	10	TS50-3405228	1	Safety ring
	11	24 223269 T20 25-33-5,7* or RSK100250-T46N 25h32,3h3,2**	1	Rod packing
	12	24 004792 PU6 25-33,6-6,5* or Wiper seal WNP000250-Z201 25h33,6h5,3**	1	Rod collar
	13		1	Screw A.M8-6gh10.45N.40H.05 GOST 1476-93
	4	TS50-3405224	1	Cap nut
	15	TS50-3405221-B	1	Rod
	16	24 223123 OMS-MR 25-32,3-3* or RU2000250-Z20 25h33h5,7**	1	Rod packing
	17	24 226044 SB 25-28-5,5* or GR25h28h5,5-S380**	2	Rod guide

* Sealing elements are of the company Freudenberg, Germany

** Sealing elements are of the company Trelleborg

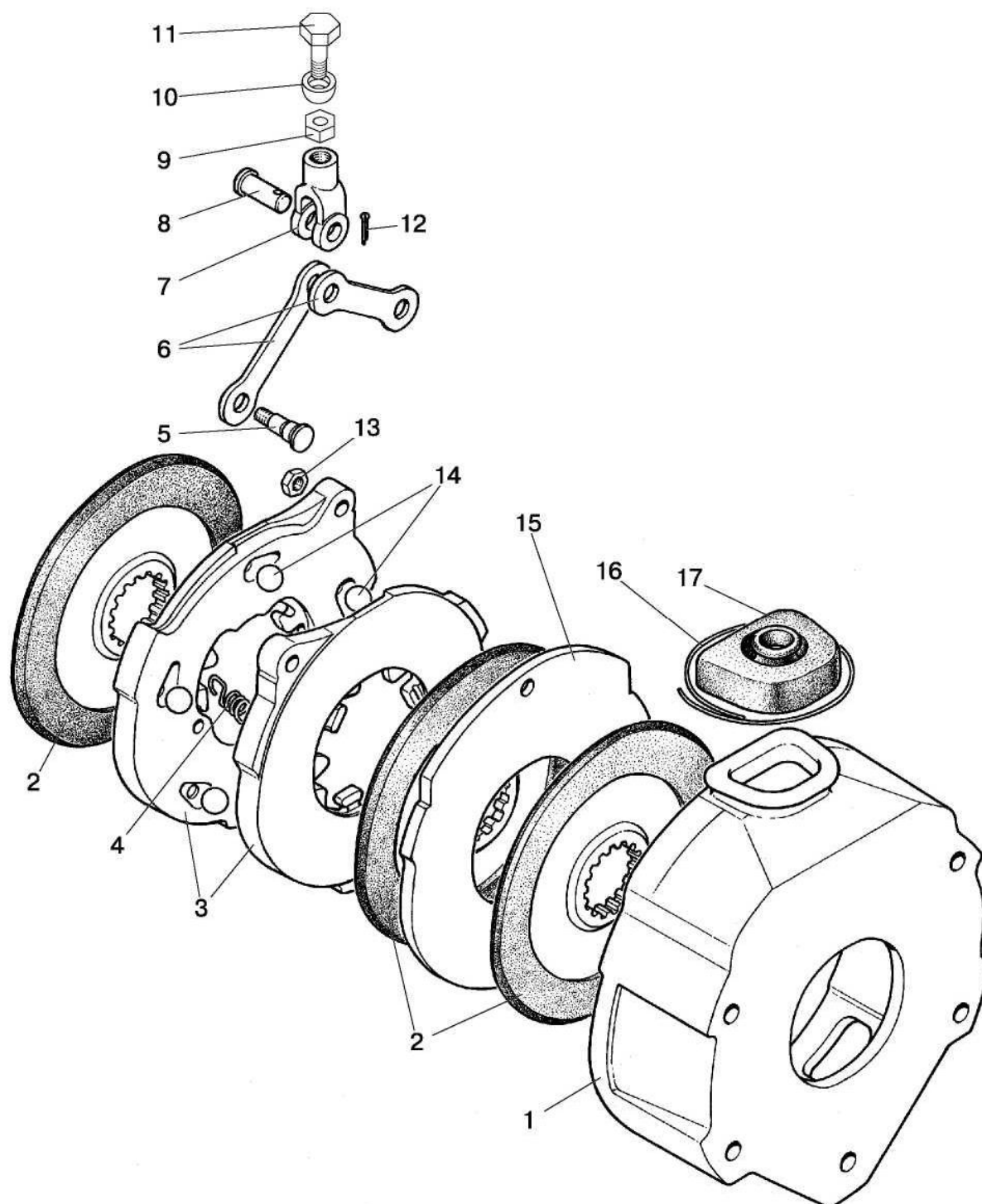


Fig. 35.1 Brakes

**Group 35.Brakes
Subgroup 3502. Brakes**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
35.1		1522-3502010	2	Brake (1-8;12-17)
		70-3503080	2	Brakes rod (9-11)
		85-3502030	2	Pressure plate (3-8, 12-14)
	1	1522-3502035	2	Casing
	2	85-3502040-01 or 85-3502040-04	6	Disc
	3	85-3502036	4	Pressure plate
	4	77.38.163	6	Spring
	5	50-3502198	4	Pin
	6	85-3502196	4	Rod
	7	50-3502203	2	Yoke
	8		2	Pin 12h32 OST 37.001.163-75
	9		2	Nut M12h1,25-6N.6.019 GOST 5916-70
	10	70-3503018	2	Spherical washer
	11	70-3503019	2	Bolt
	12		2	Split pin 3,2h18.019 GOST 397-79
	13		4	Nut M8-6N.6.019 GOST 5915-70
	14		10	Ball 22,225-100 GOST 3722-81
	15	1522-3502037-B	2	Disc
	16			Wire 1,6-O-S GOST 3282-74 300 mm
	17	50-3502202	2	Cover



Group 35.Brakes
Subgroup 3503. Brake control

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
35.2		70-3503080	2	Brakes rod (8, 9, 11)
		80-3503080	1	Right pedal (3, 4)
		80-3503090	1	Left pedal (1, 2)
	1	A13.34.001	1	Strap
	2	80-3503140	1	Pedal
	3	80-3503130	1	Pedal
	4	A13.33.002	1	Strap
	5	80-3503158-A	2	Sealant
	6		4	Washer 12 OT OST 37.001.115-75
	7		2	Bolt M12-6gh30.88.35.019 GOST 7796-70
	8	70-3503019	2	Bolt
	9	70-3503018	2	Washer
	10		2	Bolt M12-6gh35.88.35.019 GOST 7796-70
	11		2	Nut M12h1,25-6N.6.019 GOST 5916-70
	12	SSH-611	2	Key
	13	50-3503071	3	Washer
	14		2	Collar 2.2-25h42-1 GOST 8752-79
	15		2	Split pin 5h36.019 GOST 397-79
	16	50-3503015	1	Shaft
	17	70-3503017-A	1	Lever
	18	85-3503046	1	Bracket
	19		2	Bolt M10-6gh25.88.35.019 GOST 7796-70
	20		2	Washer 10 OT OST 37.001.115-75
	21	70-3503045	2	Extension
	22	50-1605152	2	Spring
	23	85-3503110-A	1	Lever
	24	85-3503120-A	1	Lever

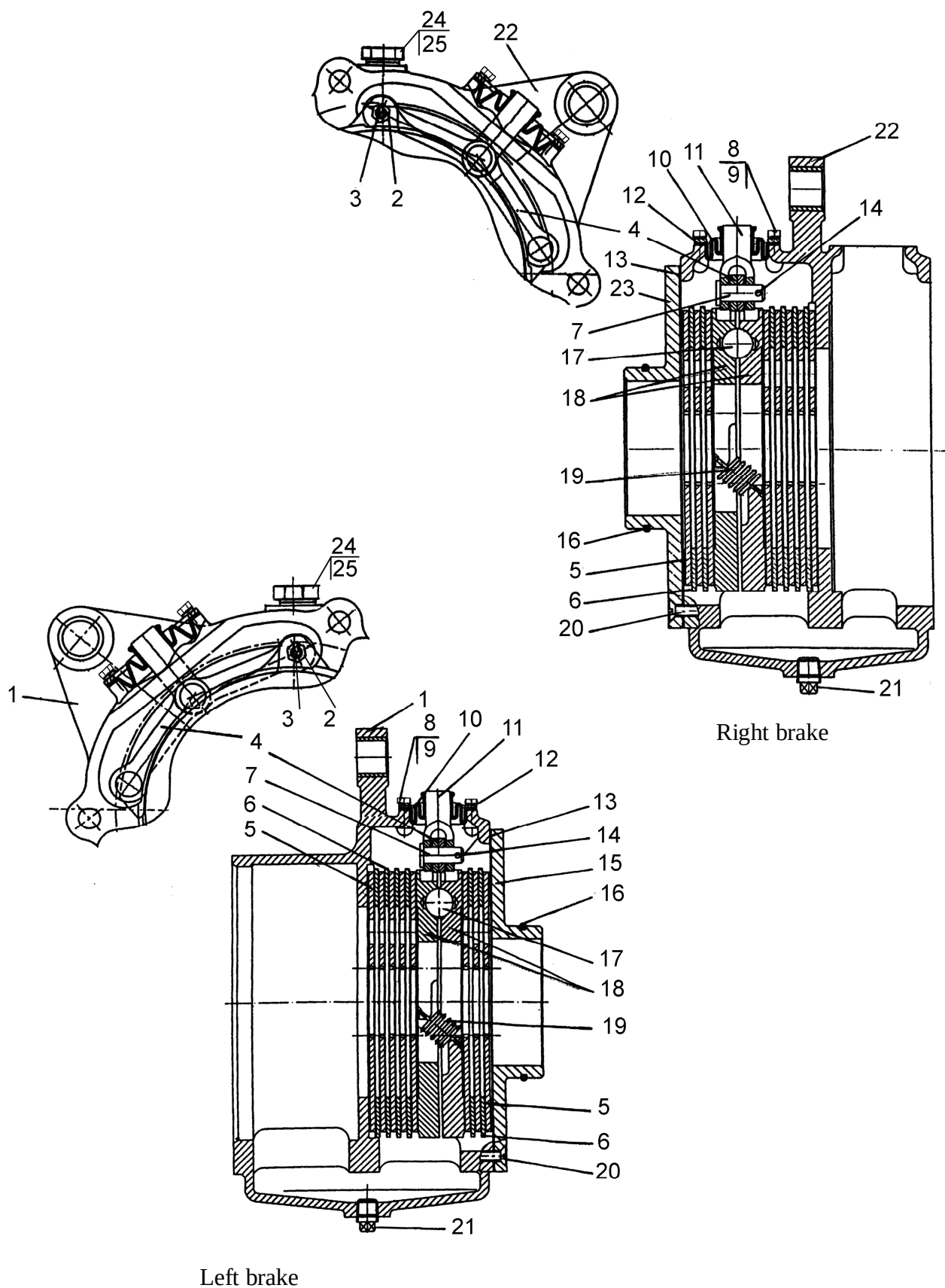


Fig. 35.3. "Wet" brakes

Group 35. Brakes
Subgroup 3502. "Wet" brakes

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
35.3		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 discs (2, 3, 4, 7, 11, 14, 17-19)
	1	1221M-2409035	1	Housing
	2		4	Nut M8-6N.6.019 GOST 5915-70
	3	50-3502198	4	Pin
	4	85-3502196	4	Rod
	5	1522-3502015-07	16	Disc
	6	80M-3502037	12	Intermediate disc (S=3,0mm) 2 pcs. selection
		80M-3502037-01	*	Intermediate disc (S=3,2mm)
		80M-3502037-02	*	Intermediate disc (S=3,4mm)
		80M-3502037-03	*	Intermediate disc (S=3,6mm)
		80M-3502037-04	*	Intermediate disc (S=3,8mm)
		80M-3502037-05	*	Intermediate disc (S=4,0mm)
		80M-3502037-06	*	Intermediate disc (S=4,2mm)
		80M-3502037-07	*	Intermediate disc (S=4,4mm)
	7		2	Pin 12h32 OST 37.001.163-97
	8		8	Bolt M6-6gx12.88.35.019 GOST 7798-70
	9		8	Washer 6T OST 37.001.115-75
	10	80M-3502202	2	Cover
	11	50-3502203	2	Yoke
	12	80M-3502204	2	Plate
	13	1221M-3502051	2	Gasket
	14		2	Split pin 3,2h18.019 GOST 397-79
	15	1221M-2407059	1	Body cover (left)
	16		2	Ring 115-120-30-2-2 GOST 18829-73/GOST9833-73
	17		10	Ball 22,225-100 GOST 3722-81
	18	85-3502036-01	4	Pressure plate
	19	77.38.163	6	Spring
	20		6	Screw V.M8-6gh25.58.019 GOST 17475-80
	21	PK KG ³ / ₈ "	4	Plug
	22	1221M-3502035	1	Housing
	23	1221M-2407059-01	1	Body cover (right)
	24	1221-1802091	2	Plug
	25	D18-055-A	2	O-Ring

* Selected during assembly to achieve required play

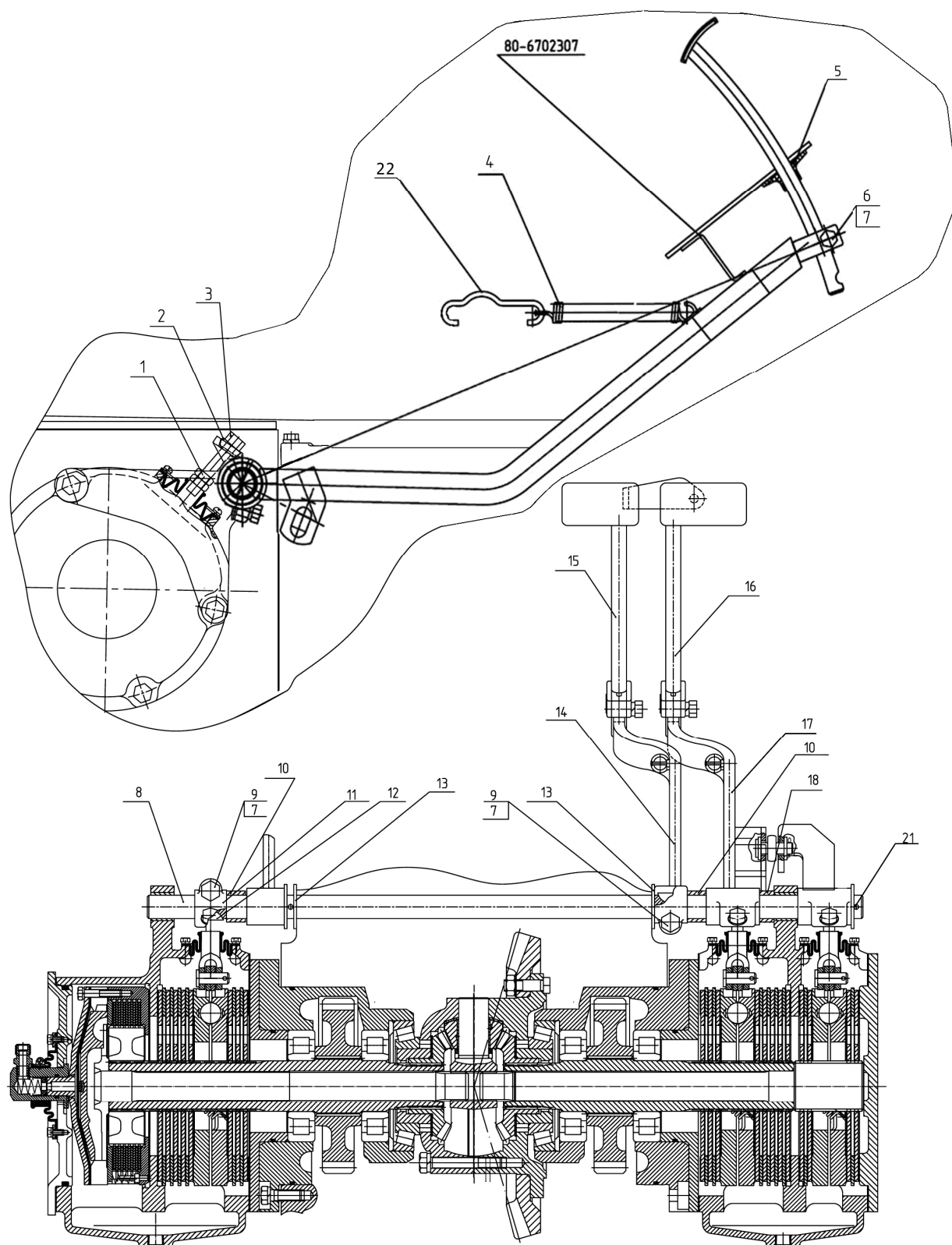


Fig. 35.4. Service "wet" brakes control

Group 35. Brakes
Subgroup 3503. Service "wet" brakes control

Fig.	Pos.No	Designation	Q-ty	Description
35.4		1221M-3503010	1	Brake control
		70-3503080	3	Rod (1-3)
	1		3	Nut M12h1,25-6N.04.019 GOST 5916-70
	2	70-3503018	3	Washer
	3	70-3503019	3	Bolt
	4	50-1605152	2	Spring
	5	80-3503158-A	2	Sealant
	6		2	Bolt M12-6gh30.88.35.019 GOST 7796-70
	7		4	Washer 12 OT OST 37.001.115-75
	8	1221M-3503015	1	Shaft
	9		2	Bolt M12-6gh35.88.35.019 GOST 7796-70
	10	1221M-3503016-01	2	Bushing (L=20mm)
	11	70-3503017-A	1	Lever
	12	SSH-611	2	Key 6h11
	13	50-3503071	4	Washer
	14	80-3503120	1	Lever
	15	80-3503140	1	Left pedal
	16	80-3503130	1	Right pedal
	17	80M-3503110	1	Lever
	18	1221M-3503016	1	Bushing (L=15mm)
	21		2	Split pin 5h36.019 GOST 397-79
	22	70-3503045	2	Spring extension

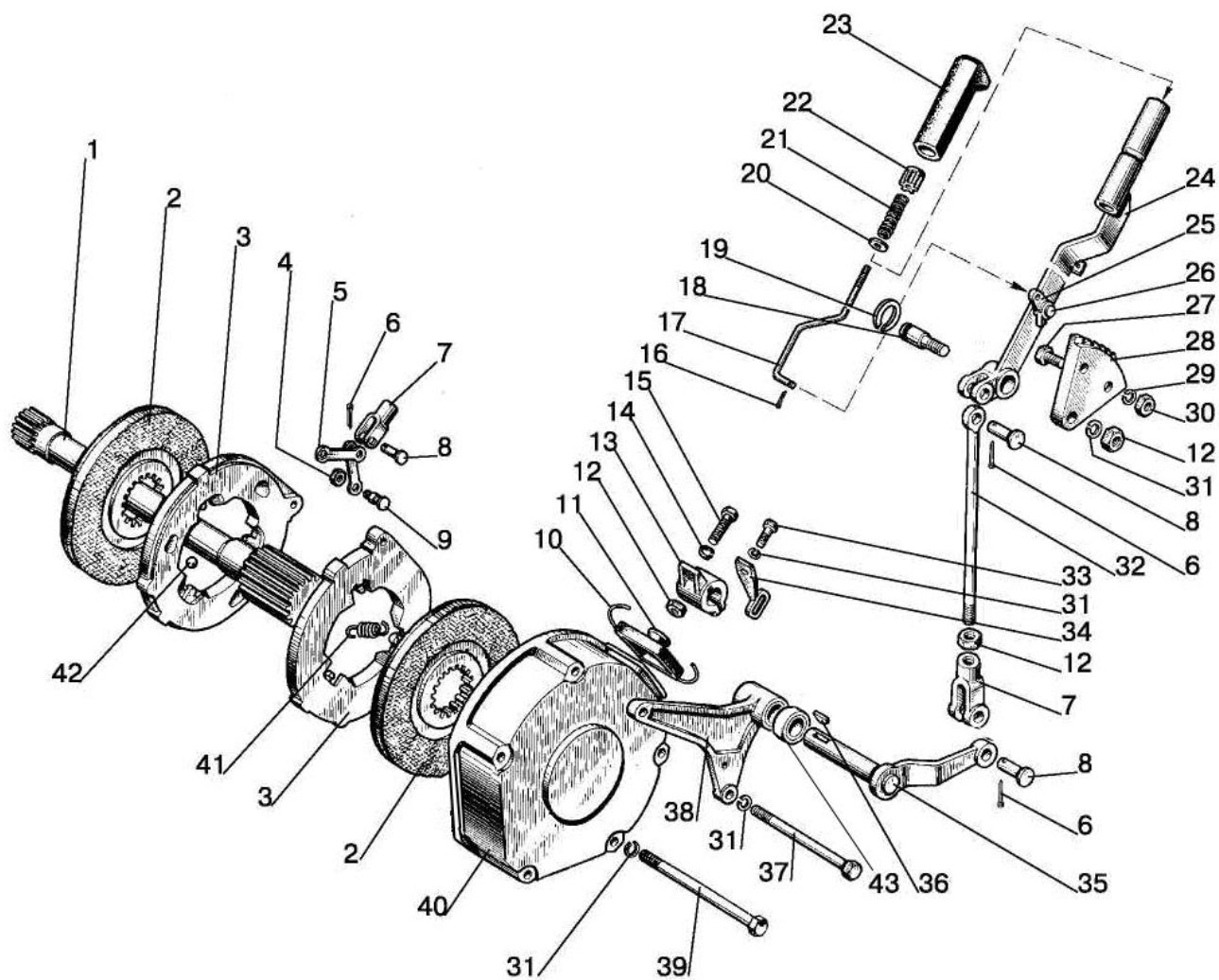


Fig. 35.5 Parking brake, parking brake control

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
35.5		50-3502010-02	1	Brake (2-11, 40-42)
		50-3502030-A	1	Pressure plate(3-9, 41, 42)
		70-3503080	1	Brakes rod (12,14,15)
		85-3507240	1	Rod (7,12,32)
		85-3507150-01	1	Bracket (13,31,33-36,38,43)
		85-3507120-01	1	Lever (16,17,20-26)
	1	70-3504055-01	1	Shaft
	2	70-3502040-01 or 70-3502040-04	2	Brake disc
	3	50-3502036-B	2	Pressure plate
	4		2	Nut M8-6N.6.019 GOST 5915-70
	5	50-3502196	2	Rod
	6		3	Split pin 3,2h18.019 GOST 397-79
	7	50-3502203	2	Yoke
	8		3	Pin 12h32 OST 37.001.163-75
	9	50-3502198	2	Pin
	10		1	Wire 1,6-O-S GOST 3282-74 (300mm)
	11	50-3502202	1	Cover
	12		3	Nut M12h1,25-6N.04.019 GOST 5916-70
	13	70-3503017-A	1	Lever
	14	70-3503018	1	Washer
	15	70-3503019	1	Bolt
	16		1	Split pin 2h12.019 GOST 397-79
	17	70-3507122-01	1	Rod
	18	70-3507132-B-01	1	Axle
	19		1	Ring S15 GOST 13942-86
	20		1	Washer S 5.01.019 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	Axle
	27		2	Bolt M10-6gh35.88.35.019 GOST 7796-70
	28	70-3507021-B	1	Sector segment
	29		2	Washer 10 OT OST 37.001.115-75
	30		2	Nut M10-6N.6.019 GOST 5915-70
	31		7	Washer 12 OT OST 37.001.115-75
	32	85-3507241	1	Rod
	33		1	Bolt
	34	80-3514107	1	Lever
	35	85-3507060	1	Shaft
	36	SSH-611	1	Key 6h11
	37	1522-2409034-03	2	Bolt
	38	70-3507070-01	1	Bracket
	39	M12-6gh200.58.019 GOST 7795-70	3	Bolt
	40	50-3502035-A2-02	1	Casing
	41	77.38.163	3	Spring
	42		3	Ball 22,225-100 GOST 3722-81
	43	1221-3507072	1	Bushing

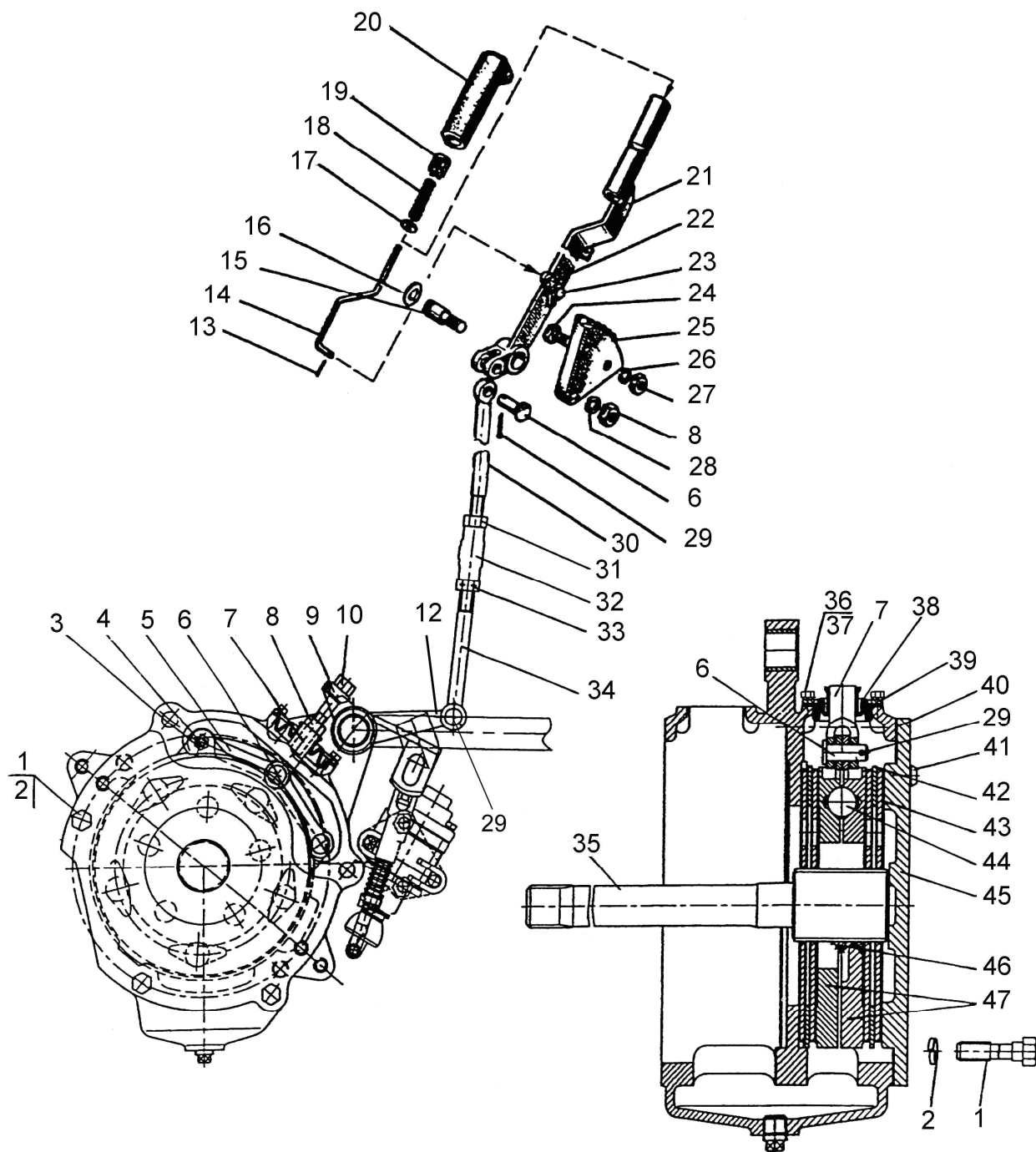


Fig. 35.6 Parking brake. Parking brake control (for "wet" brakes)

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
35.6		85-3502030-01	1	Pressure discs (3-7, 29, 44, 46, 47)
		1221M-3507140	1	Rod (30-34)
		70-3503080	1	Brakes rod (8-10)
		85-3507120-01	1	Lever (13-14,17-23)
	1	1221M-3502039-01	5	Bolt
	2		5	Washer 14 OT OST 37.001.115-75
	3		2	Nut M8-6N.6.019 GOST 5915-70
	4	50-3502198	2	Pin
	5	85-3502196	2	Rod
	6		2	Pin 12h32 OST 37.001.163-75
	7	50-3502203	1	Yoke
	8		2	Nut M12h1,25-6N.6.019 GOST 5916-70
	9	70-3503018	1	Washer
	10	70-3503019	1	Bolt
	12	1221M-3507060	1	Lever
	13		1	Split pin 2h12.019 GOST 397-79
	14	70-3507122-01	1	Rod
	15	70-3507132-B-01	1	Axle
	16		1	Ring S15 GOST 13942-86
	17		1	Washer S 5.01.019 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	Axle
	24	M10-6gh35.88.35.019 GOST 7796-70	2	Bolt
	25	70-3507021-B	1	Sector segment
	26		2	Washer 10 OT OST 37.001.115-75
	27		2	Nut M10-6N.6.019 GOST 5915-70
	28		1	Washer 12 OT OST 37.001.115-75
	29		3	Split pin 3,2h18.019 GOST 397-79
	30	1221M-3507141	1	Rod
	31		1	Nut M12-6N.6.019 GOST 5915-70
	32	R50-4616043	1	Clutch
	33	R50-4616038	1	Nut
	34	1221M-3507240	1	Rod
	35	1221M-3504055	1	Shaft
	36	M6-6gh12.88.35.019 GOST 7798-70	4	Bolt
	37		4	Washer 6T OST 37.001.115-75
	38	80M-3502202	1	Cover
	39	80M-3502204	1	Plate
	40	1221M-3502051	1	Gasket
	41	50-1601352	2	Dowel pin
	42	80M-3502037	2	Intermediate disc (S=3,0mm)
		80M-3502037-01	*	Intermediate disc (S=3,2mm)
		80M-3502037-02	*	Intermediate disc (S=3,4mm)
		80M-3502037-03	*	Intermediate disc (S=3,6mm)
		80M-3502037-04	*	Intermediate disc (S=3,8mm)
		80M-3502037-05	*	Intermediate disc (S=4,0mm)
		80M-3502037-06	*	Intermediate disc (S=4,2mm)
		80M-3502037-07	*	Intermediate disc (S=4,4mm)

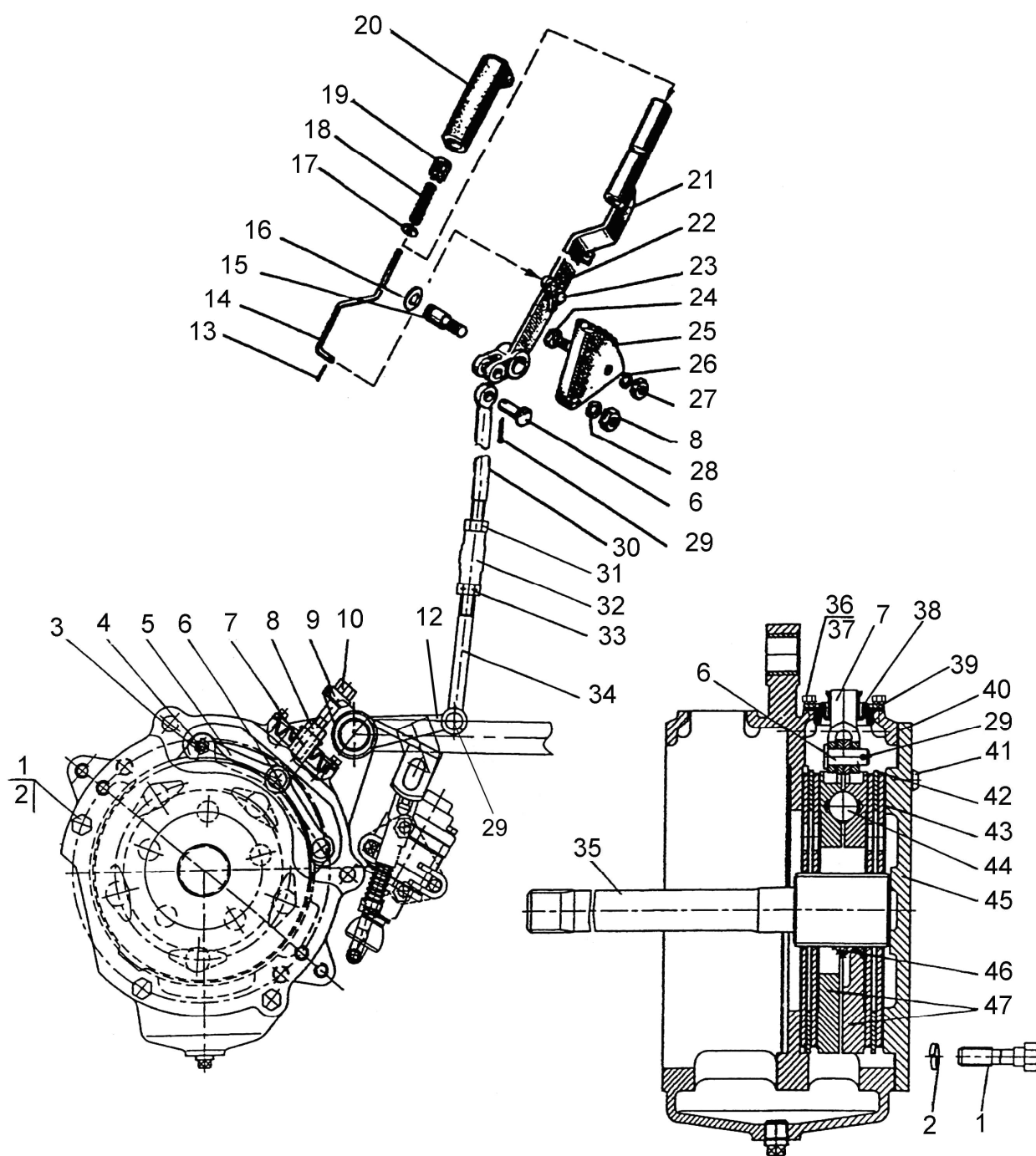


Fig. 35.6 Parking brake. Parking brake control (for "wet" brakes)

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

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

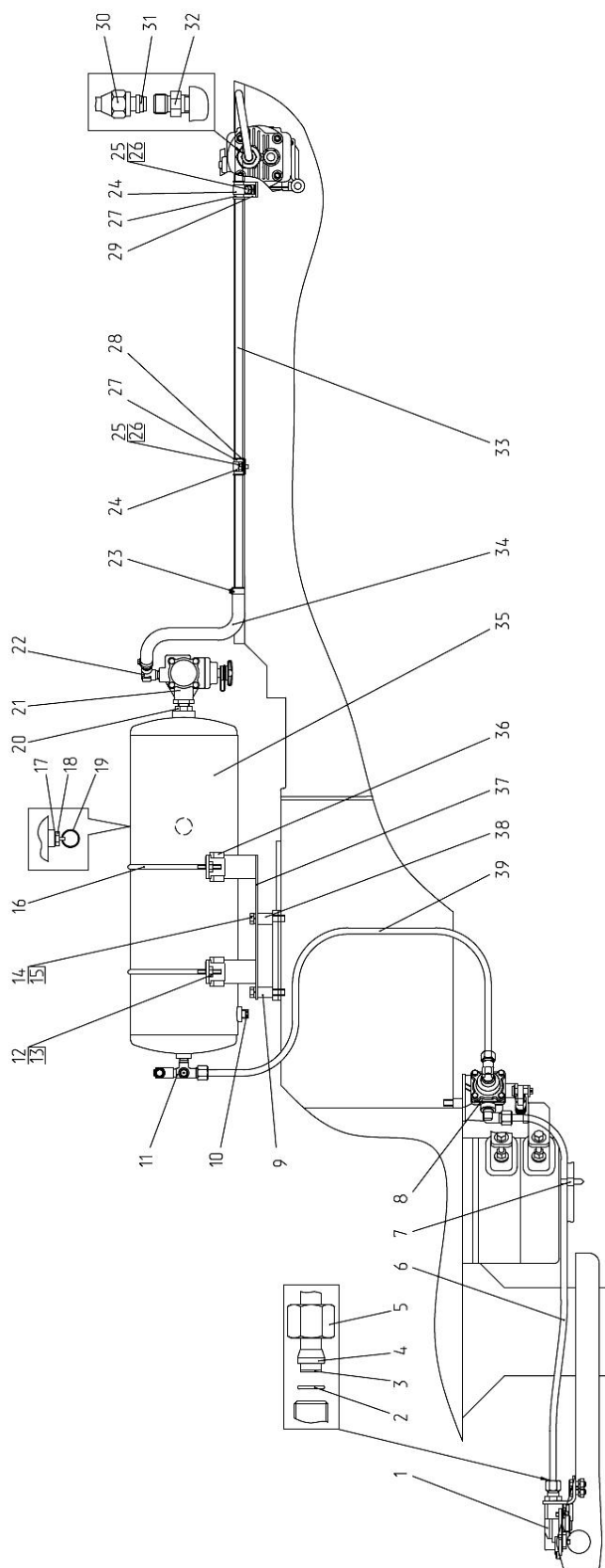


Fig.35.7 Pneumatic drive 1221.4-3506005

Group 35. Brakes
Subgroup 3506. (Single-line) pneumatic drive

Fig.	Pos.No	Designation	Q-ty	Description
35.7		1221.4-3506005	1	Pneumatic drive
		1522M-3506050	1	Pipeline (3-5, 6)
		1523.4-3506010	1	Pipeline (30, 31, 33)
		1021-3506020-03	1	Pipeline (3-5, 39)
	1	1021-3521005	1	Coupling head (Fig.5)
	2		4	Ring 012-015-19-2-4 GOST 18829-73/GOST 9833-73
	3	1522-3506022	4	Nipple
	4	1522-3506024	4	Clutch
	5	1522-3506023	4	Nut
	6	1522M-3506051	1	Pipe
	7	80-3723045-01	1	Collar
	8	85M-3514010-03	1	Brake valve (Fig.3)
	9	1522-4607252	1	Bushing
	10	PK KG 3/8"	1	Plug
	11	921-3513020	1	T-piece
	12		2	Nut M6-6N.6.019 GOST 5915-70
	13		2	Washer 6 T OST 37.001.115-75
	14		4	Bolt M12-6gh60.88.35.019 GOST 7796-70
	15		4	Washer 12 OT OST 37.001.115-75
	16	V50-3513032	2	Clamp
	17	4600.21	1	Washer RM22
	18	85-3513110	1	Valve
	19	N50-4202146	1	Ring
	20	80-3512006	1	Locknut
	21	80-3512010 or A29.51.000 B or 11.3512010-30 or 25-3512010	1	Pressure regulator
	22	70-3513015	1	Angle piece
	23	5000.02	2	Clamp with worm thread 16-27
	24	1321-8700031	2	Clamp
	25		2	Bolt M10-6gh16.88.35.019 GOST 7796-70
	26		2	Washer 10 OT OST 37.001.115-75
	27	70-3506027	2	Bushing
	28	1221M-3506012	1	Strip
	29	1523.4-3506012	1	Strip
	30	70-3506023	1	Cap nut
	31	80-3506024	1	Clutch
	32	70-3506022	1	Fitting
	33	1523.4-3506011	1	Pipe
	34	1523.4-3506014	1	Hose
	35	1021-3513020	1	Tank
	36	PR-43-01	4	Sealant
	37	1221-3513010	1	Bracket
	38	1221-3513012	3	Bushing
	39	1021-3506021-03	1	Pipe

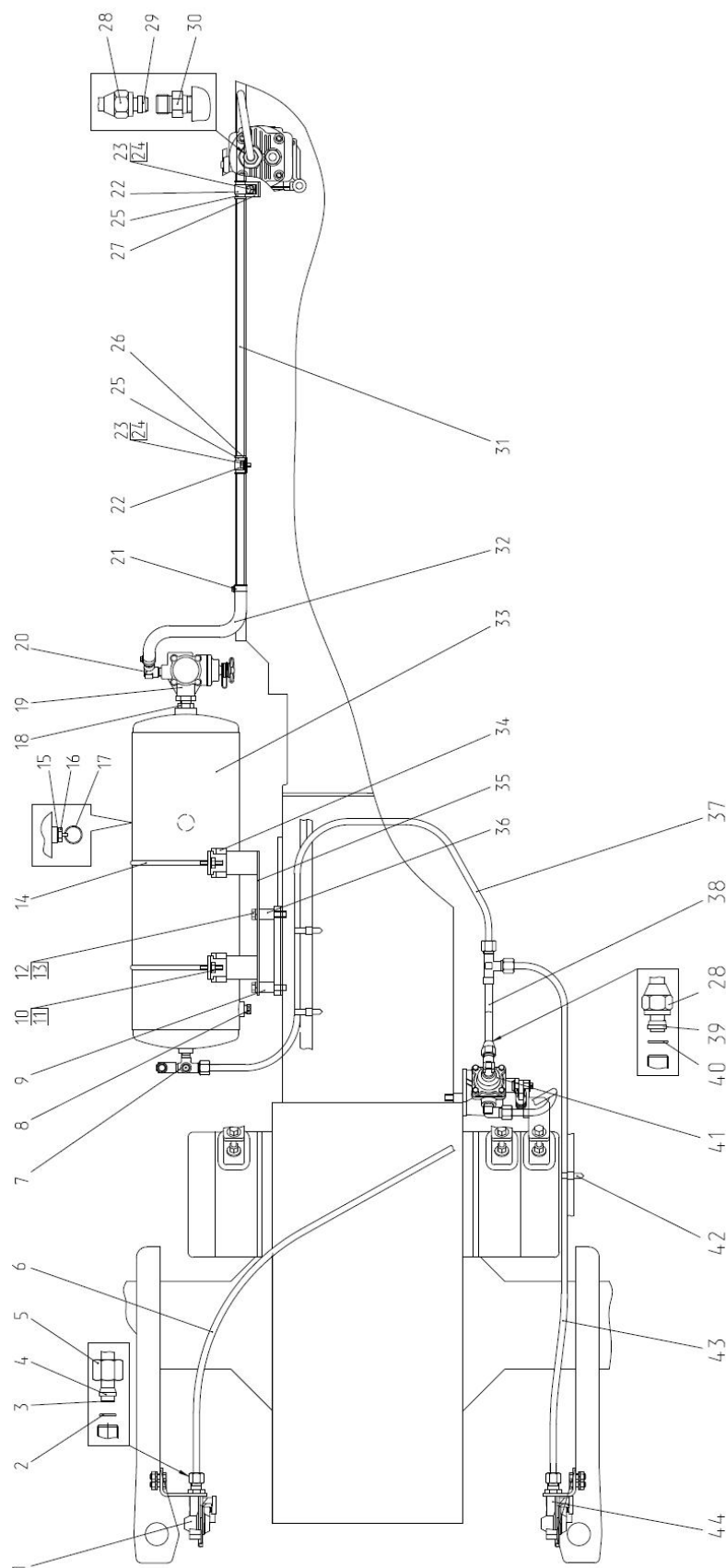


Fig.35.8 Pneumatic drive 1221.4-3506505

Group 35. Brakes
Subgroup 3506. (Double-line) pneumatic drive

Fig.	Pos.No	Designation	Q-ty	Description
35.8		1221.4-3506505	1	Pneumatic drive
		1025-3506560-02	1	Pipeline (3-5, 6)
		1523.4-3506010	1	Pipeline (28, 29, 31)
		1021-3506020-03	1	Pipeline (3-5, 37)
		1025-3506540	1	Pipeline (28, 38, 39)
		1025-3506560-01	1	Pipeline (3-5, 43)
	1	1025-3521510	1	Coupling head (Fig.7)
	2		6	Ring 012-015-19-2-4 GOST 18829-73/GOST 9833-73
	3	1522-3506022	6	Nipple
	4	1522-3506024	6	Clutch
	5	1522-3506023	6	Nut
	6	1025-3506561-02	1	Pipe
	7	921-3513020	1	T-piece
	8	PK KG 3/8"	1	Plug
	9	1522-4607252	1	Bushing
	10		2	Nut M6-6N.6.019 GOST 5915-70
	11		2	Washer 6 T OST 37.001.115-75
	12		4	Bolt M12-6gh60.88.35.019 GOST 7796-70
	13		4	Washer 12 OT OST 37.001.115-75
	14	V50-3513032	2	Clamp
	15	4600.21	1	Washer RM22
	16	85-3513110	1	Valve
	17	N50-4202146	1	Ring
	18	80-3512006	1	Locknut
	19	80-3512010 or A29.51.000 B or 11.3512010-30 or 25-3512010	1	Pressure regulator
	20	70-3513015	1	Angle piece
	21	5000.02	2	Clamp with worm thread 16-27
	22	1321-8700031	2	Clamp
	23		2	Bolt M10-6gh16.88.35.019 GOST 7796-70
	24		2	Washer 10 OT OST 37.001.115-75
	25	70-3506027	2	Bushing
	26	1221M-3506012	1	Strip
	27	1523.4-3506012	1	Strip
	28	70-3506023	2	Cap nut
	29	80-3506024	1	Clutch
	30	70-3506022	1	Fitting
	31	1523.4-3506011	1	Pipe
	32	1523.4-3506014	1	Hose
	33	1021-3513020	1	Tank
	34	PR-43-01	4	Sealant
	35	1221-3513010	1	Bracket
	36	1221-3513012	3	Bushing
	37	1021-3506021-03	1	Pipe

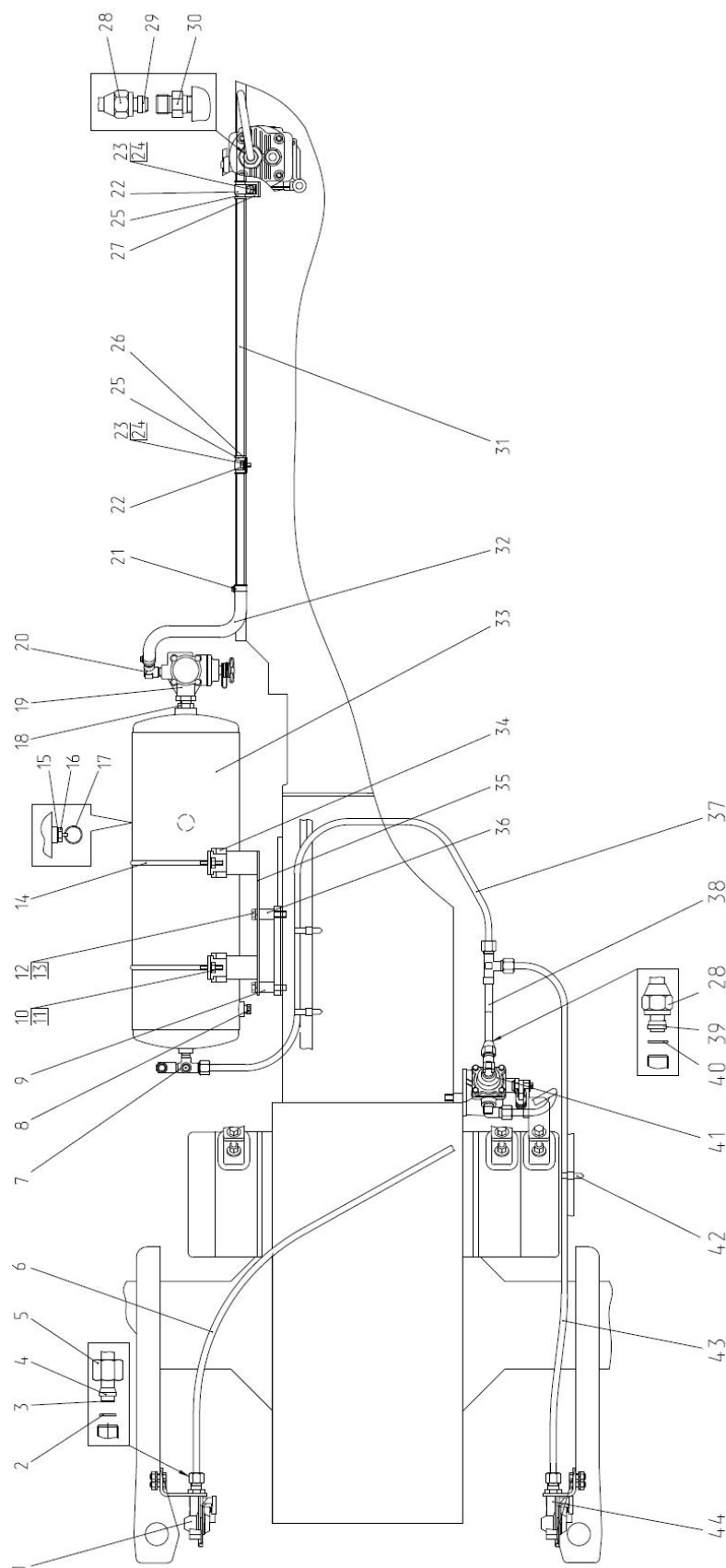


Fig.35.8 Pneumatic drive 1221.4-3506505

Group 35. Brakes
Subgroup 3506. (Double-line) pneumatic drive

Fig.	Pos.No	Designation	Q-ty	Description
35.8	38	1025-3506550	1	Pipeline
	39	70-3506028	1	Clutch
	40		1	Ring 014-017-19-2-4 GOST 18829-73/GOST 9833-73
	41	85M-3514010-02	1	Brake valve (Fig.4)
	42	80-3723045-01	1	Collar
	43	1025-3506561-01	1	Pipe
	44	1025-3521505	1	Coupling head (Fig.6)

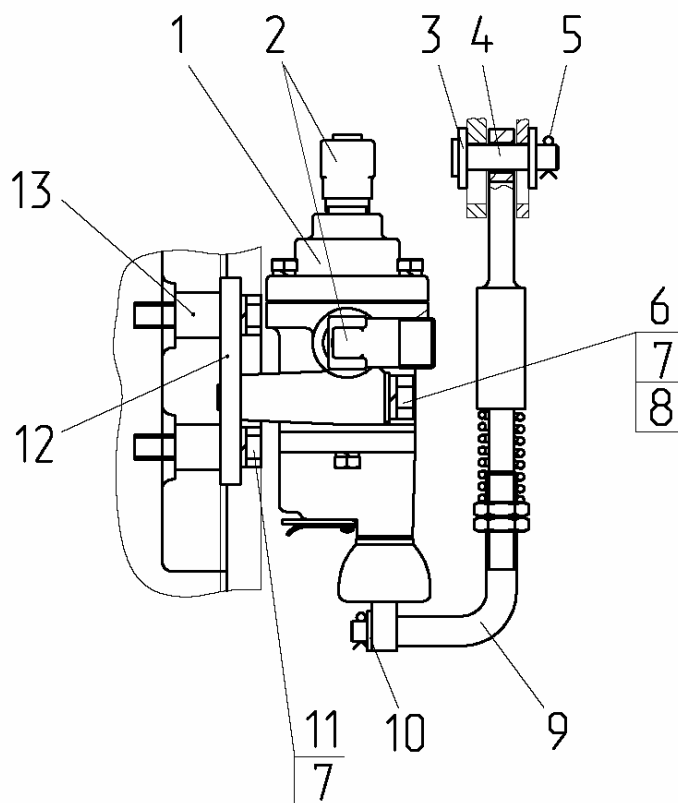


Fig. 35.9 Brake valve

Group 35.Brakes
Subgroup 3514. Brake valve

Fig.	Pos.No	Designation	Q-ty	Description
35.9		85M-3514010-03	1	Brake valve
	1	A29.3514010 or 80-3514010 or 14.3514010	1	Brake valve
	2	1522-3514033	2	Angle piece
	3		2	Washer S 12.01.019 GOST 11371-78
	4		1	Pin 12h40 OST 37.001.163-97
	5		2	Split pin 3,2h18.019 GOST 397-79
	6		2	Bolt M10-6gh70.88.35.019 GOST 7795-70
	7		4	Washer 10 OT OST 37.001.115-75
	8		2	Washer S 10.01.019 GOST 11371-78
	9	80-3514130	1	Rod
	10		1	Washer S 8.01.019 GOST 11371-78
	11		2	Bolt M10-6gh45.88.35.019 GOST 7795-70
	12	85M-3514011	1	Bracket
	13	85-3514012	2	Boss

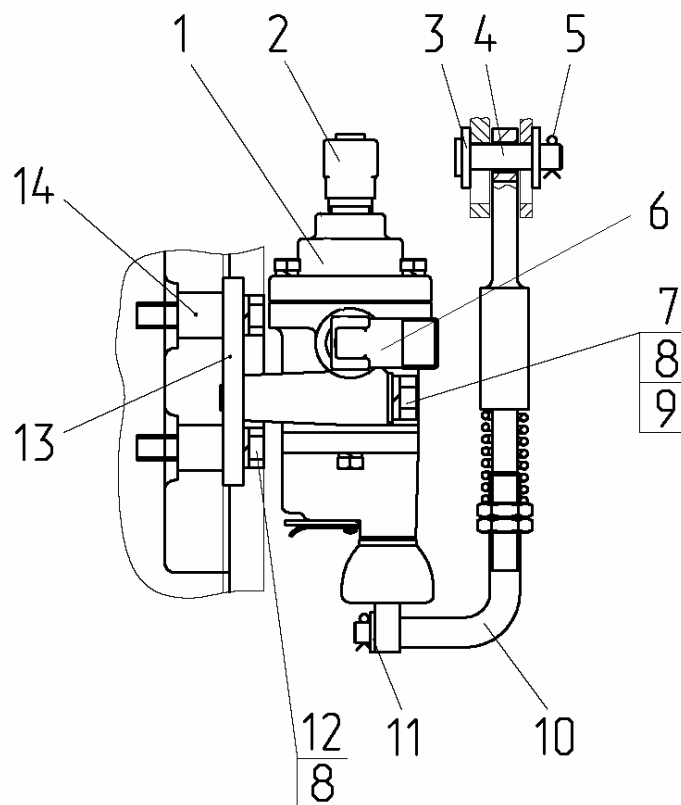


Fig. 35.10 Brake valve

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

Fig.	Pos.Nd	Designation	Q-ty	Description
35.10		85M-3514010-02	1	Brake valve
		A29.3514010-02 or 80-3514010-02	1	Brake valve
	2	70-3506033	1	Angle piece
	3		2	Washer S 12.01.019 GOST 11371-78
	4		1	Pin 12h40 OST 37.001.163-97
	5		2	Split pin 3,2h18.019 GOST 397-79
	6	1522-3514033	1	Angle piece
	7		2	Bolt M10-6gh70.88.35.019 GOST 7795-70
	8		4	Washer 10 OT OST 37.001.115-75
	9		2	Washer S 10.01.019 GOST 11371-78
	10	80-3514130	1	Rod
	11		1	Washer S 8.01.019 GOST 11371-78
	12		2	Bolt M10-6gh45.88.35.019 GOST 7795-70
	13	85M-3514011	1	Bracket
	14	85-3514012	2	Boss

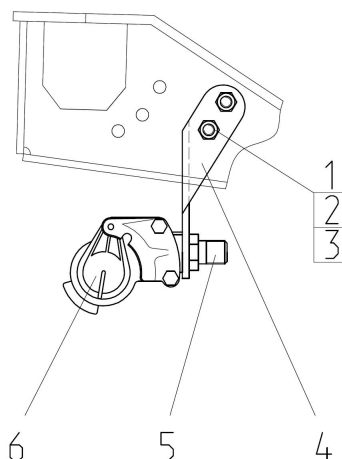


Fig. 35.11 Coupling head

Group 35.Brakes
Subgroup 3521. Coupling head
 (for single-line pneumatic drive)

Fig.	Pos.No	Designation	Q-ty	Description
35.11		1021-3521005	1	Coupling head
	1		2	Bolt M10-6gh25.88.35.019 GOST 7796-70
	2		2	Nut M10-6N.6.019 GOST 5915-70
	3		2	Washer 10 OT OST 37.001.115-75
	4	70-3521012	1	Bracket
	5	1522-3521012	1	Fitting
	6	80-3521010 or A29.76.000 or 12.3521010-01	1	Coupling head

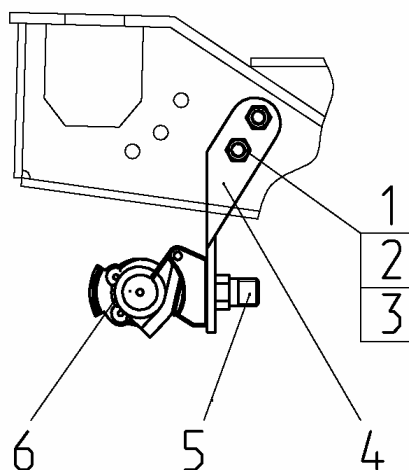


Fig. 35.12 Coupling head

Group 35.Brakes
Subgroup 3521. Coupling head
 (for double-line pneumatic drive)

Fig.	Pos.No	Designation	Q-ty	Description
35.12		1025-3521505	1	Coupling head
	1		2	Bolt M10-6gh25.88.35.019 GOST 7796-70
	2		2	Nut M10-6N.6.019 GOST 5915-70
	3		2	Washer 10 OT OST 37.001.115-75
	4	1025-3521511	1	Bracket
	5	1522-3521513	1	Fitting
	6	64226-3521110 or 11.3521410-20	1	Automatic coupling head

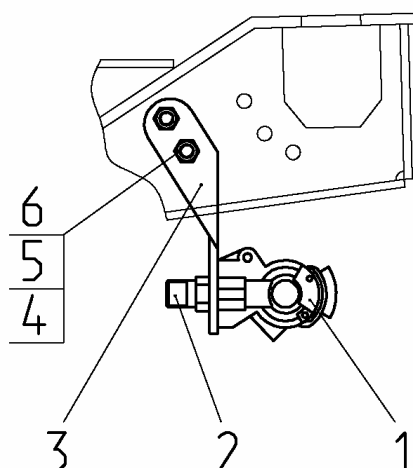


Fig. 35.13 Coupling head

Group 35.Brakes
Subgroup 3521. Coupling head
 (for double-line pneumatic drive)

Fig.	Pos.No	Designation	Q-ty	Description
35.13		1025-3521510	1	Coupling head
	1	64226-3521111 or 11.3521411-20	1	Automatic coupling head
	2	1522-3521513	1	Fitting
	3	1025-3521512	1	Bracket
	4		2	Screw V.M8-6gh25.58.019 GOST 17475-80
	5		2	Nut M8-6N.6.019 GOST 5915-70
	6		2	Washer 8T OST 37.001.115-75

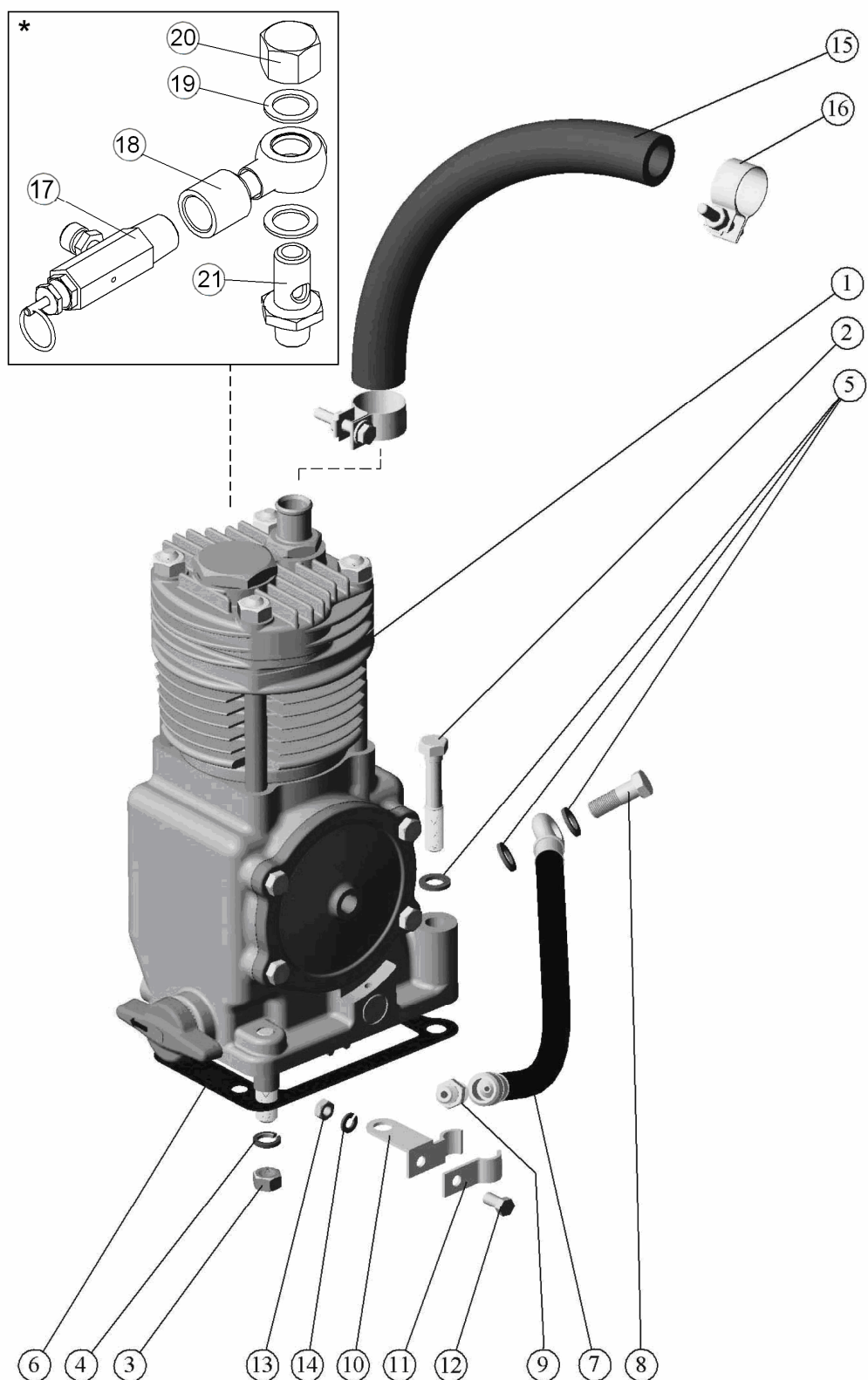


Fig. 35.14 Compressor

Group 35. Brakes
Subgroup 3509. Compressor

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
35.14		240-3509030-A	1	Pneumatic compressor assy
	1	A29.05.000-BZA	1	Pneumatic compressor
	2		1	Bolt M10-6gh45.88.35.019 GOST 7795-70
	3		3	Nut M10-6N.6.019 GOST 5915-70
	4		3	Washer 10.65G.06 GOST 6402-70
	5	36-1104788	3	Gasket
	6	240-3509037-A	1	Gasket
	7	240-3509150	1	Oil pipeline (L=352mm)
	8	36-1104787	1	Fitting bolt
	9	240-3509232	1	Fitting
	10	240-3509158	1	Clamp
	11	240-3509159	1	Clip
	12		1	Bolt M6-6gh16.88.35.019 GOST 7798-70
	13		1	Nut M6-6N.6.019 GOST 5915-70
	14		1	Washer 6.65G.019 GOST 6402-70
	15	RD 18-29-300-1,3	1	Hose pipe-part
	16	HS-26	2	Clamp
	17	80-3509010*	1	Valve
	18	920-3509020*	1	Angle piece
	19	40-4607038-A*	2	Washer
	20	1025-3506623 *	1	Nut
	21	1025-3506622 *	1	Fitting

* Valve for tires pumping is mounted if there is no pneumatic drive.

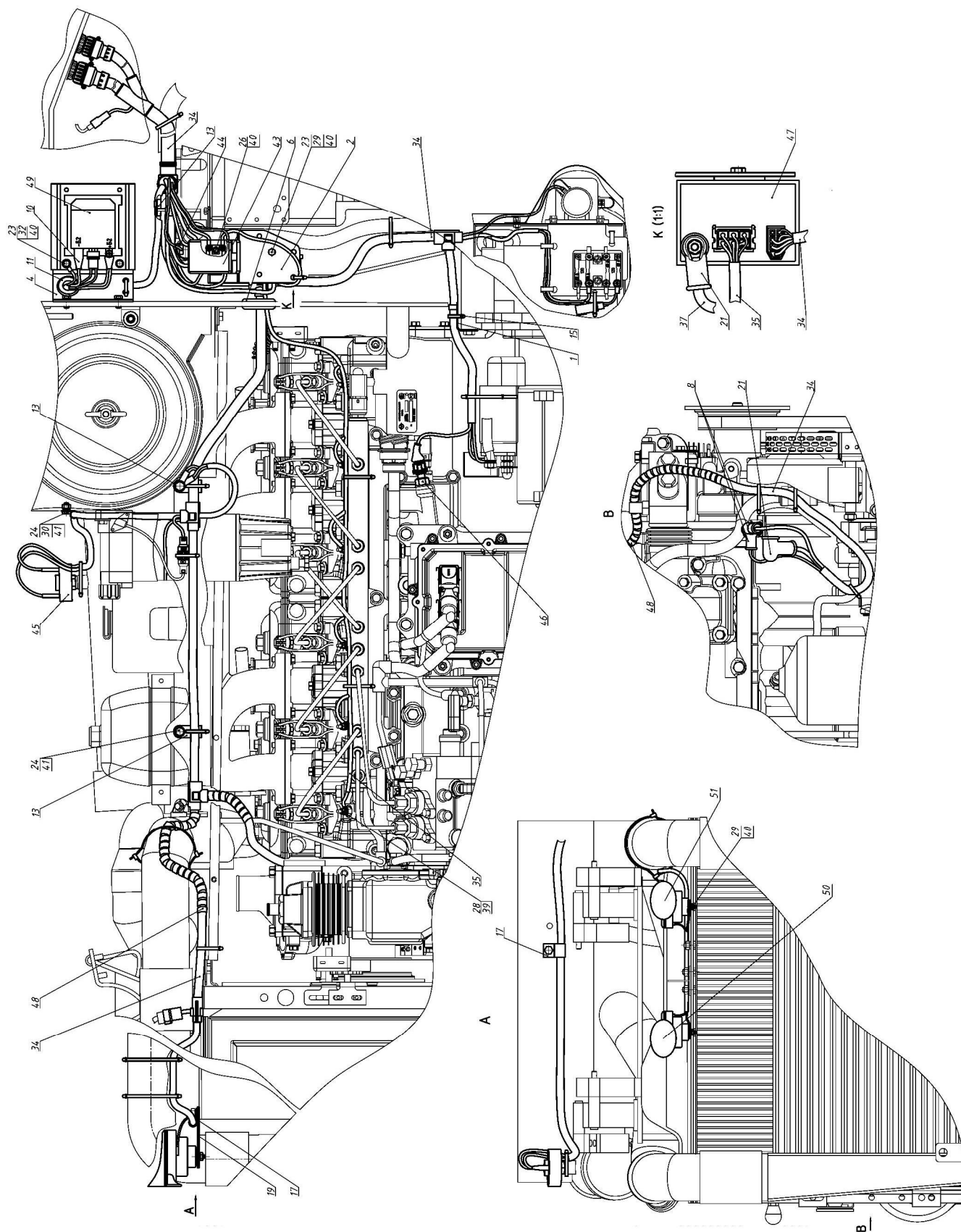
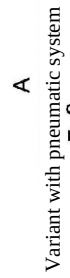


Fig. 37.1 Engine electrical equipment

Group 37. Electrical equipment
Subgroup 3700. Engine electrical equipment

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
37.1		1221.5-3700030	1	Engine electrical equipment
	1	800-1108530-A	1	Bracket
	2	1221.4-3747020	1	Bracket
	4	1221.4-3759020	1	Bracket
	6	50-4607064	1	Bushing
	8	54.24.445-B	3	Tip
	10	70-3723035	2	Tip
	11	70-3723042-02	1	Bushing
	13	80-3723016	3	Bracket
	15	80-3723045-01	24	Collar
	17	822-3723001	2	Clip
	19	1522-3721011	2	Plate
	21	TM-59-6000-38	2	Rubber tip
	23		3	Bolt M6-6gh16.88.35.019 GOST 7798-70
	24		4	Bolt M8-6gh14.88.35.019 GOST 7798-70
	26		2	Screw V.M6-6gh20.58.019 GOST 17473-80
	28		6	Nut M5-6N.6.019 GOST 5915-70
	29		3	Nut M6-6N.6.019 GOST 5915-70
	30		1	Nut M8-6N.6.019 GOST 5915-70
	32		2	Washer S.6.01.019 GOST 11371-78
	34		1	Bundled cable 1221.5-3724360 GOST 23544-84
	35		1	Bundled cable 1221-3724380-B GOST 23544-84
	37		1	Cable 1222.4-3724045-B GOST 23544-84
	39		6	Washer 5 T OST 37.001.115-75
	40		7	Washer 6 T OST 37.001.115-75
	41		4	Washer 8T OST 37.001.115-75
	43	3722.90	1	Fuse block BP-11-07 TU RB 03428193.095-97
				Sensor DADM-03 TU RB 07513211.004-94 or Emergency pressure sensor MM111D-3810600-01 TU 37.003.546-76
	44	3829.15	1	
	45	3845.10	1	Sensor DSF-65 TU RB 07513211.003-94
	46	3844.15	1	Temperature sensor 233.3828 TU 37.459.259-00
	47	3741.40	1	Control unit 11.760.150 or Heating plug controllers KSN-1.3761-112 TU BY 190431397.012-2010
	48	3723.40	2	Spiral band B 20h16h20 black TU BY500525429.006-2009
				Voltage converter 191.3759-02 TU 84.214.008-04 or Voltage converter PN 14/28 V 8 A TU BY 300044189.055-2007
	49	3759.10	1	
	50	3721.15	1	Signal S-308 TU 37.003.1063-81
	51	3721.20	1	Signal S-309 TU 37.003.1063-81



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Group 37. Electrical equipment
Subgroup 3700. Transmission electrical equipment

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
37.2	1	80-3723016	1	Bracket
	3	80-3723045-01	16	Collar
	4	85-1702051	1	Washer
	5	D18-055-A	1	O-Ring
	7	1221.4-3724317-B	1	Bundled cable
	9	3843.15	2	Speed sensor
	10	3829.20	1	Pressure sensor DD-10-01M TU RB 600417525.009-2000 or Pressure sensor FCCO10 TU 236.915.048-06
	11	3829.30	1	Pressure sensor DD-20M TU RB 600417525.009-2000 or Pressure sensor FCCO20 TU 236.915.048-06
	12	3829.25	1	Sensor DADV TU RB 07513211.004-94 or Sensor MM124D-3810600 TU 37.003.546-76
	15	1522-3843002	4(2*)	Gasket
	16	822-3723001	2	Clip
	17	80-3843001-01	14 max. q-ty	Gasket
	18		4	Bolt M8-6gh40.88.35.019 GOST 7795-70
	19		4	Washer 8T OST 37.001.115-75

* For box 24h12 (U_{z.m.} = 23,43)

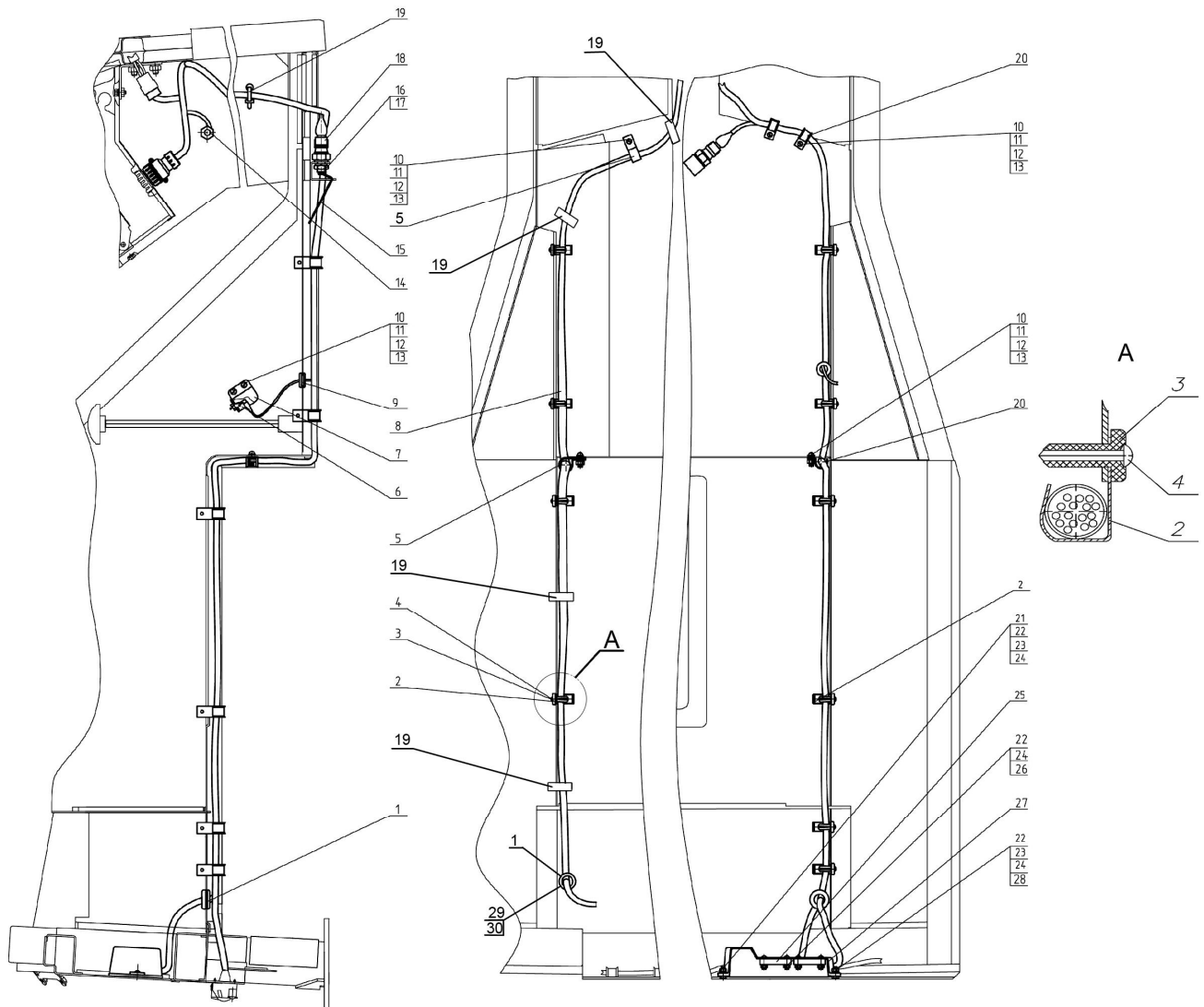


Fig.37.3 Cab electrical equipment

Group 37. Electrical equipment
Subgroup 3700.Cab electrical equipment

Fig.	Pos.	Designation	Q-ty	Description
37.3		80-3700050-G-02		Cab electrical equipment
	1	70-3723042-02	2	Bushing
	2	85-3723041	10	Clip
	3	A37.10.031	10	Threaded rivet nut
	4		10	Screw 2-4h16.019 GOST 1144-80
	5	70-1115012-01	2	Clamp
	6	VK 409	1	Hand brake lamp switch
	7	80-3710012	1	Bracket
	8	80-3724300-G1	1	Bundled cable
	9	70-3723042-01	1	Bushing
	10		5	Screw V.M5-6gh16.58.019 GOST 17473-80
	11		5	Nut M5-6N.6.019 GOST 5927-70
	12		5	Washer S 5.01.019 GOST 11371-78
	13		5	Spring washer 5T OST 37.001.115-75
	14	DADM-03 or MM111D-3810600-01	1	Oil emergency pressure sensor
	15	85-3710032	1	Lever
	16	85-3710025	1	Nut
	17	14 L GOST 6402-70	1	Spring washer
	18	VK 12-21	1	Brake signal switch
	19	80-3723045	7	Collar
	20	80-3723038	3	Clip
	21		1	Bolt M6-6gh20.58.35.019 GOST 7798-70
	22		5	Nut M6-6N.6.019 GOST 5915-70
	23		2	Washer S 6.01.019 GOST 11371-78
	24		6	Washer 6T OST 37.001.115-75
	25	15.3723 or PS3.3723	2	Three-pin junction plate
	26		4	Screw V.M6-6gh20.58.019 GOST 17473-80
	27	70-3723034	1	Panel cover
	28		1	Bolt M6-6gh25.88.35.019 GOST 7798-70
	29	70-3724041	1	Cable
	30	80-3724367	1	Cable

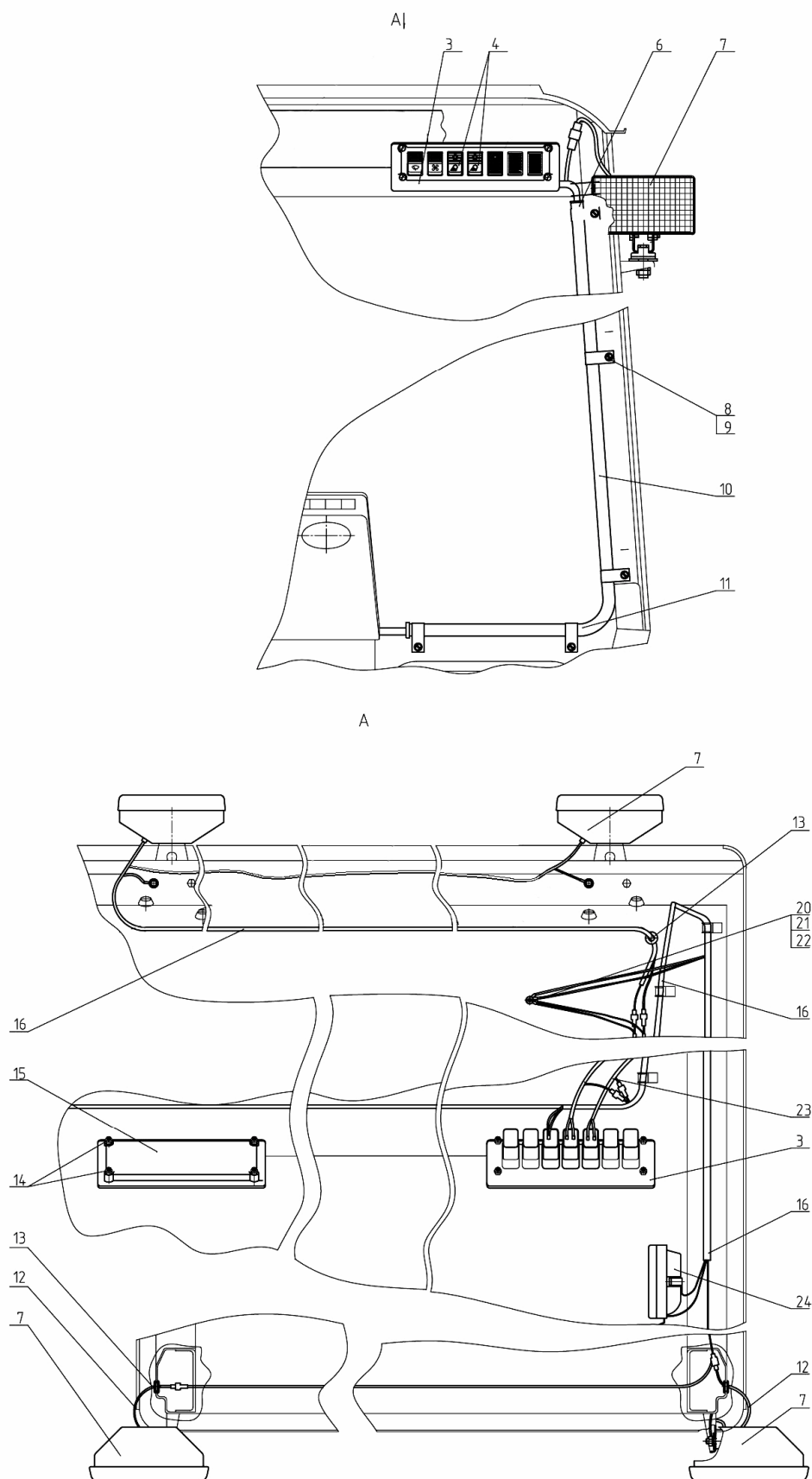


Fig.37.4 Working lights assembly

Group 37. Electrical equipment
Subgroup 3711. Working lights assembly

Fig.	Pos.	Designation	Q-ty	Description
37.4		80-3700110-V-02		Working lights assembly
	3	80-3801342	1	Dashboard
	4	P150M-25.52 or PK150-25.52	2	Working lights switch
	6	80-3723010	1	Groove
	7	112.07.54-06 or RAUS 14.3711-12	4	Working light
	8		5	Screw V.M6-6gh12.58.019 GOST 17473-80
	9		5	Washer S 6.01.019 GOST 11371-78
	10	80-3723020	1	Groove
	11	80-3723015	1	Groove
	12	80-3724035-B	2	Cable
	13	70-3723042-01	3	Bushing
	14		8	Screw V.M6-6gh12.58.019 GOST 17474-80
	15	80-7901018	1	Dashboard
	16	80-3724232-B	1	Bundled cable
	20		1	Bolt M6-6gh25.88.35.019 GOST 7798-70
	21		2	Nut M6-6N.6.019 GOST 5915-70
	22		2	Spring washer 6T OST 37.001.115-75
	23	80-3724231-B	1	Bundled cable
	24	111.3714 O2 or 1112.3714010	1	Room lamp 105h95

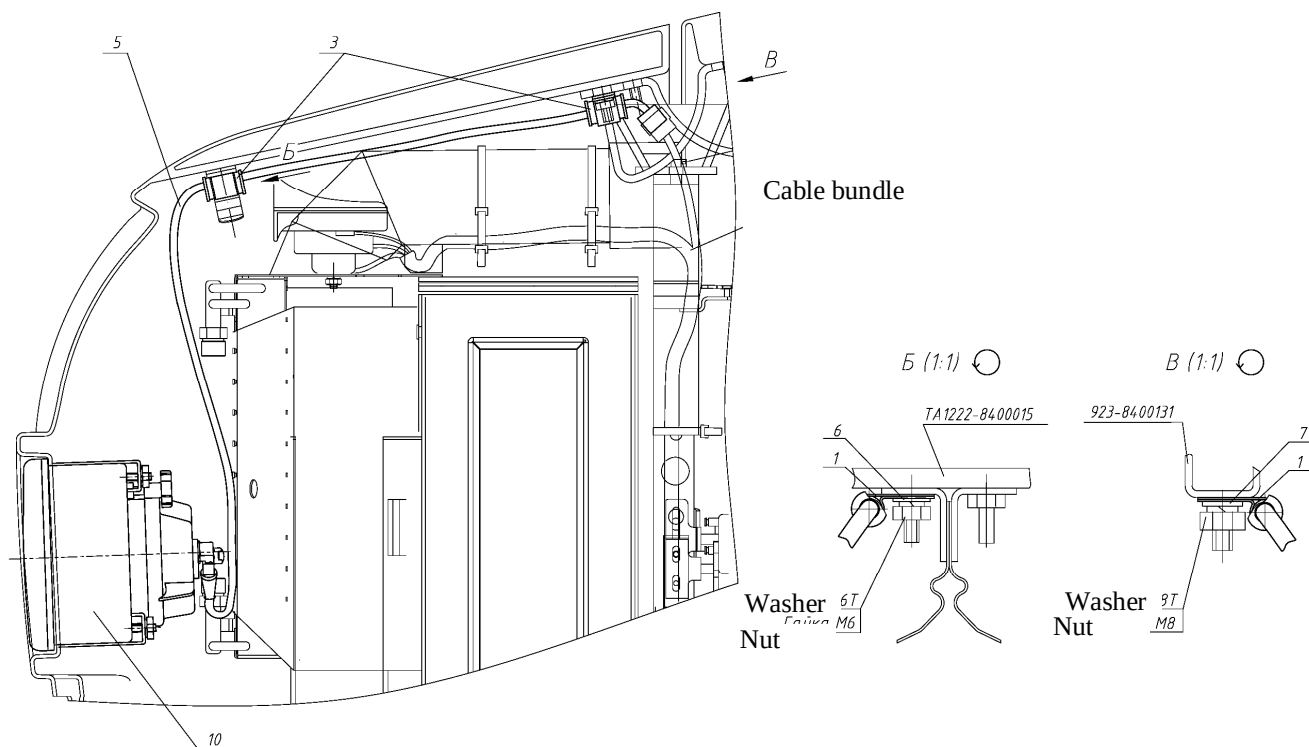


Fig. 37.5 Headlights assembly

Group 37 Electrical equipment
Subgroup 3700. Headlights assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
37.5		1221.4-3700020	1	Headlights assembly
	1	70-1115012-01	2	Clamp
	3	70-3506027	2	Bushing
	5		1	Bundled cable 422.1-3724025 GOST 23544-84
	6		1	Washer S 6.01.019 GOST 6958-78
	7		1	Washer S 8.01.019 GOST 6958-78
	10		2	Light 08 7101 000 TU RB 600398030.004-2004 or Headlight 112.08.70 TU BY 600124825.054-2009

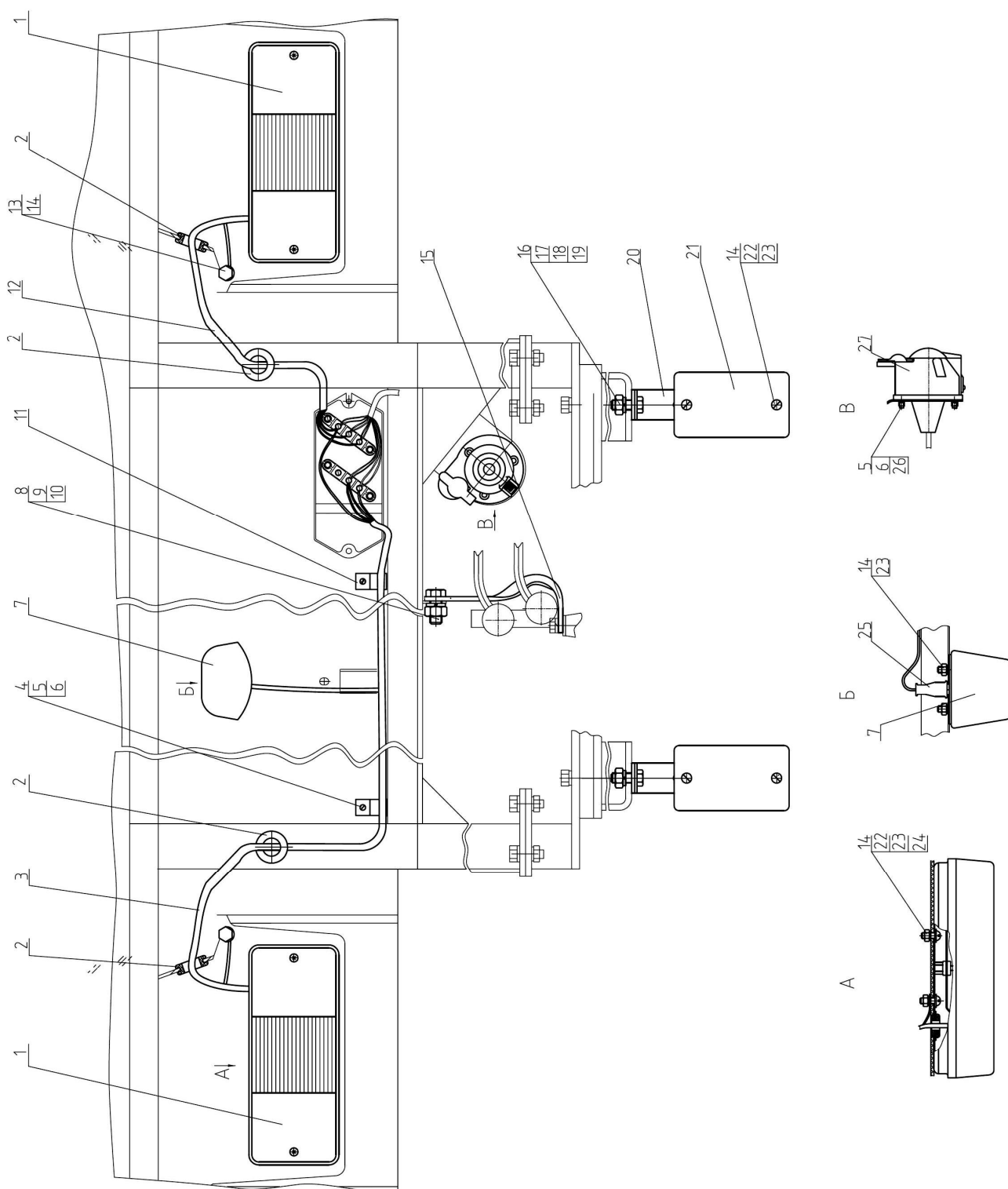


Fig.37.6 Rear lamps assembly

Group 37. Electrical equipment
Subgroup 3716. Rear lamps assembly

Fig.	Pos.	Designation	Q-ty	Description
37.6		80-3700060-V-05		Rear lamps assembly
	1	7303.3716 or 3302.3716-20	2	Rear lamp
	2	70-3723042-02	4	Bushing
	3	920-3724163	1	Bundled cable
	4		3	Screw V.M5-6gh12.58.019 GOST 17473-80
	5		6	Nut M5-6N.6.019 GOST 5927-70
	6		6	Washer 5T OST 37.001.115-75
	7	FP 131 AR GOST 6964-72 or 2102.3.04.17 or 112.00.05-01	1	Number plate light
	8		1	Bolt M12-6gh25.88.35.019 GOST 7796-70
	9		1	Nut M12-6N.6.019 GOST 5915-70
	10		1	Spring washer 12 OT OST 37.001.115-75
	11	80-3723043	3	Clip
	12	920-3724162	1	Bundled cable
	13		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	14		12	Washer 6T OST 37.001.115-75
	15	80-3724112 80-3724112-01 ¹⁾	1	Jumper
	16		2	Bolt M10-6gh25.88.35.019 GOST 7796-70
	17		2	Nut M10-6N.6.019 GOST 5915-70
	18		2	Washer S 10.01.019 GOST 6958-78
	19		2	Washer 10 OT OST 37.001.115-75
	20	F50-3731011	2	Bracket
	21	3202.3731	2	Reflector
	22		8	Screw V.M6-6gh18.58.019 GOST 17473-80
	23		10	Nut M6-6N.6.019 GOST 5915-70
	24		4	Washer S 6.01.019 GOST 11371-78
	25	70-3723035	1	Tip
	26		3	Screw V.M5-6gh35.58.019 GOST 17475-80
	27	302.3.04.23 or R9-1	1	Trailer socket

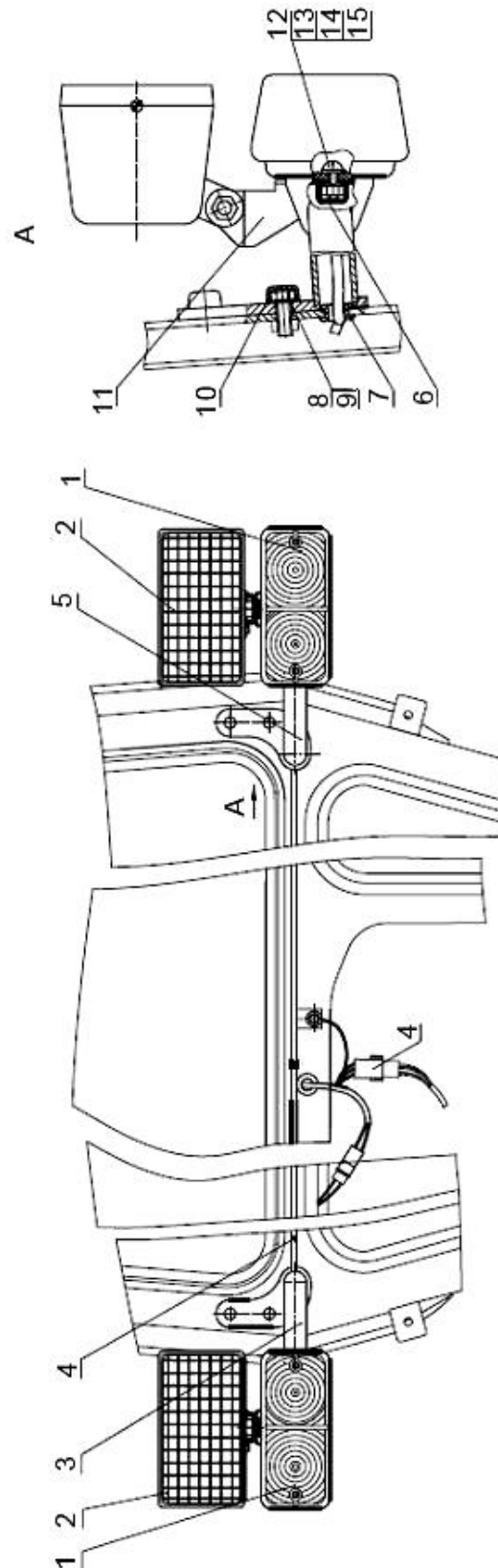


Fig. 37.7 Front lamps with working lights assembly

BELARUS**1221.5**

Group 37. Electrical equipment
Subgroup 3712. Front lamps assembly

Fig.	Pos.	Designation	Q-ty	Description
37.7		1221.5-3700025		Front lamps assembly
	1	3713.3712 or 2302.3.04.12	2	Front lamp with side flasher
	2	112.07.54-18 or RAUS 14.3711-18	2	Working light
	3	1221.5-3712025-01	1	Bracket
	4	1221.5-3724130	1	Bundled cable
	5	1221.5-3712025	1	Bracket
	6	A30.04.017	4	Cap
	7	70-3723042-01	2	Bushing
	8		4	Bolt M8-6gh20.88.35.019 GOST 7796-70
	9		4	Washer 8T OST 37.001.115-75
	10	A30.04.017-01	4	Cap
	11	920-3711011	2	Bracket
	12		4	Screw V.M6-6gh20.58.019 GOST 17473-80
	13		4	Nut M6-6N.6.019 GOST 5915-70
	14		4	Washer S.6.01.019 GOST 6958-78
	15		4	Washer 6T OST 37.001.115-75

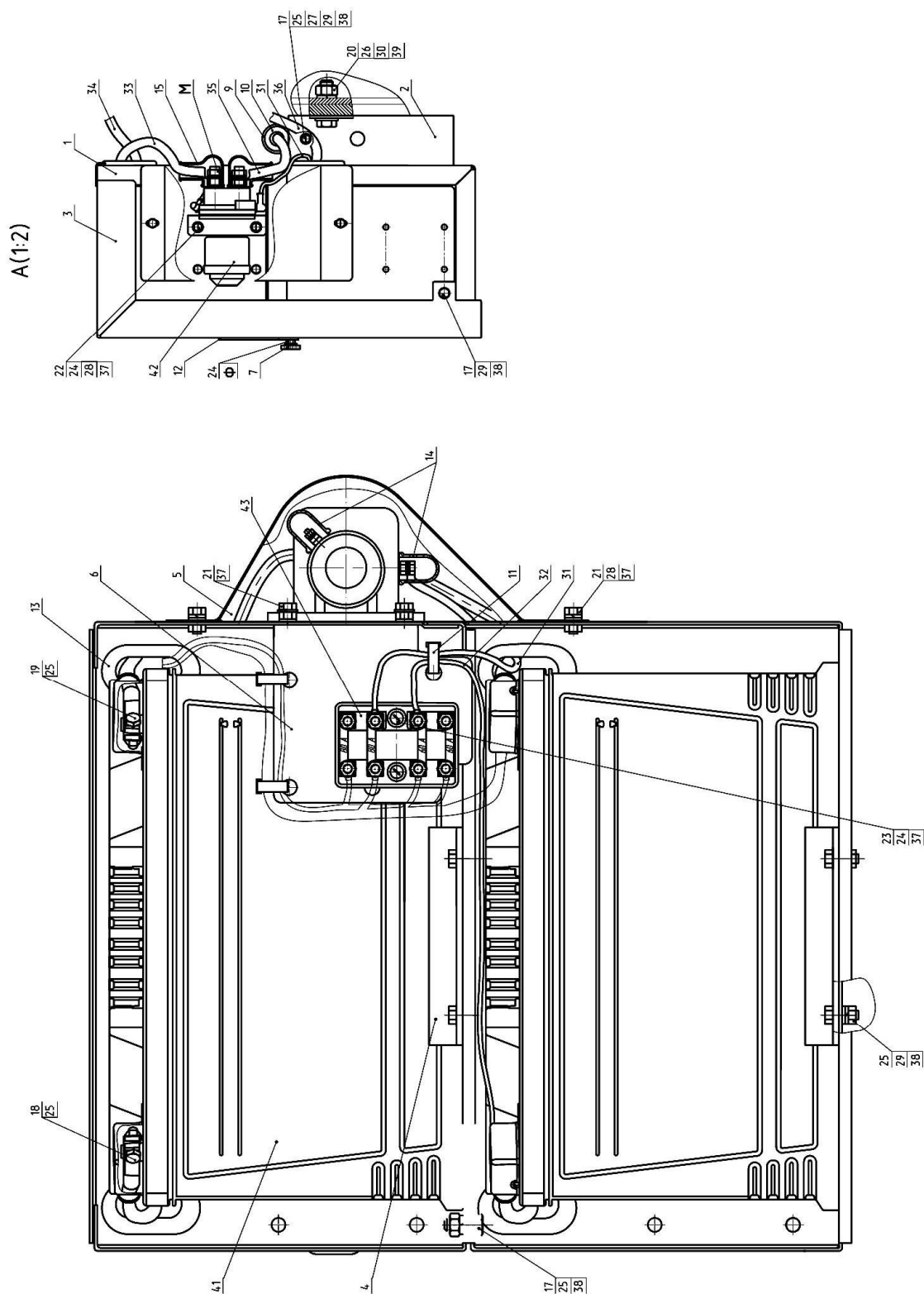


Fig. 37.8 Storage battery assembly

Group 37 Electrical equipment
Subgroup 3724. Storage battery assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
37.8		1221.5-3700080	1	Storage battery assembly
	1	1221V-3703010-02	1	Tray
	2	1221V-3703010-03	1	Tray
	3	1222.4-3703020	1	Casing
	4	80V-3703020	2	Holdddown clamp
	5	1522-3703025	1	Casing
	6	1222.4-3722010	1	Bracket
	7	80-3805065	1	Screw
	9	320-3723021	2	Bracket
	10	70-3723042-02	2	Bushing
	11	80-3723045	3	Collar
	12	822-3801341-B	1	Plate
	13	50-4607064	4	Bushing
	14	54.24.445-B	2	Tip
	15	TM-59-6000-38	2	Rubber tip
	17		8	Bolt M8-6gh20.88.35.019 GOST 7796-70
	18		2	Bolt M8-6gh30.88.35.019 GOST 7796-70
	19		2	Bolt M8-6gh35.88.35.019 GOST 7796-70
	20		2	Bolt M16-6gh40.88.35.019 GOST 7796-70
	21		4	Bolt M6-6gh16.88.35.019 GOST 7798-70
	22		2	Bolt M6-6gh20.88.35.019 GOST 7798-70
	23		2	Screw V.M6-6gh16.58.019 GOST 17473-80
	24		5	Nut M6-6N.6.019 GOST 5915-70
	25		14	Nut M8-6N.6.019 GOST 5915-70
	26		2	Nut M16-6N.6.019 GOST 5915-70
	27		2	Washer S 8.01 GOST 6958-78
	28		4	Washer S.6.01.019 GOST 11371-78
	29		8	Washer S.8.01.019 GOST 11371-78
	30		4	Washer S.16.01.019 GOST 11371-79
	31		1	Cable 1222.4-3724045-B GOST 23544-84
	32		1	Cable 80-3724381-B GOST 23544-84
	33		1	Cable 923-3724042 GOST 23544-84
	34		1	Cable 1221V-3724041 GOST 23544-84
	35		1	Cable 1221V-3724044-V GOST 23544-84
	36		1	Cable 1221V-3724075 GOST 23544-84
	37		8	Washer 6 T OST 37.001.115-75

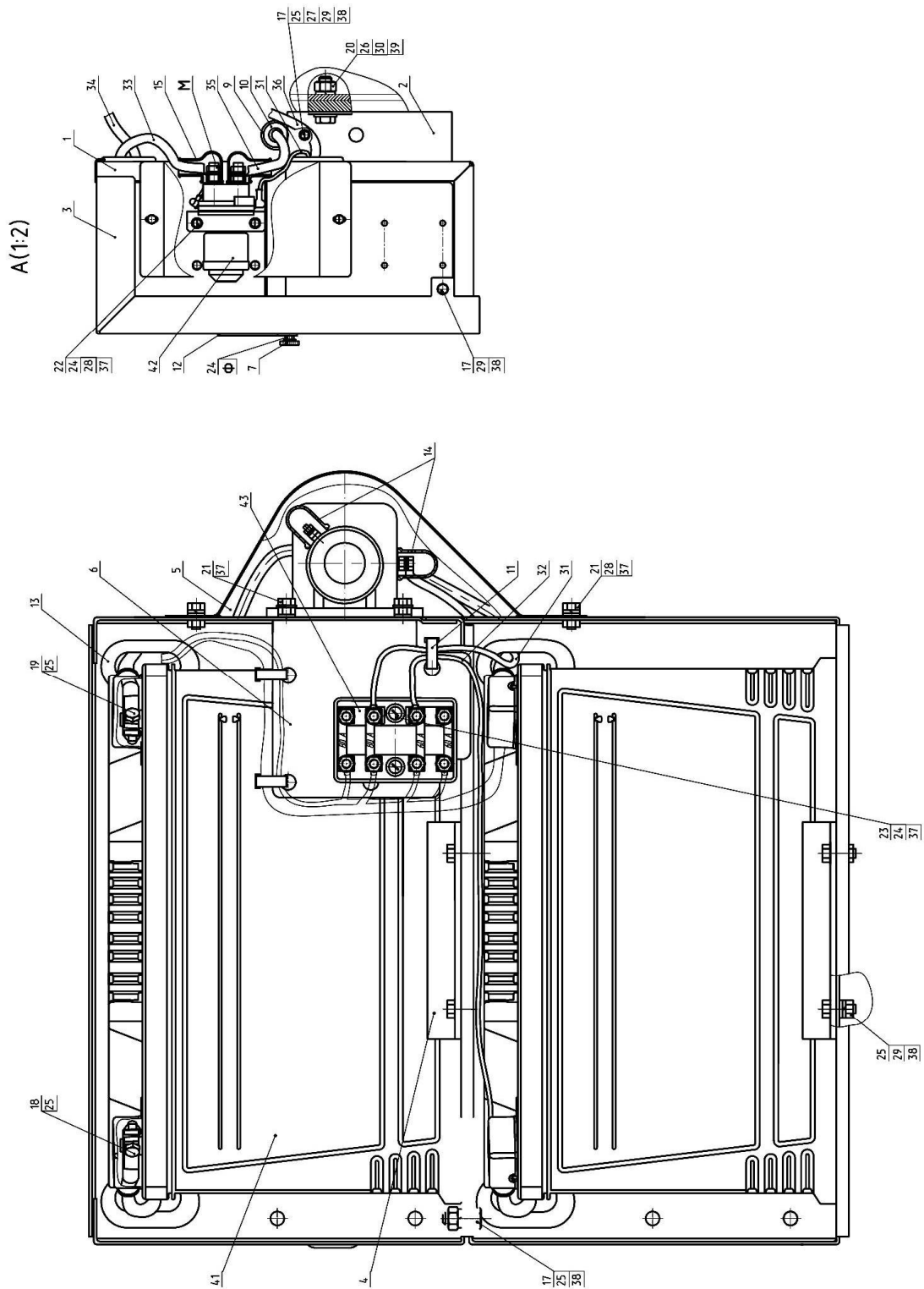


Fig. 37.8 Storage battery assembly

Group 37 Electrical equipment
Subgroup 3724. Storage battery assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
37.8	38		12	Washer 8T OST 37.001.115-75
	39		2	Washer 16 OT OST 37.001.115-75
	41		2	Accumulator battery 12V 120 Ah or Accumulator battery 12V 125 Ah
	42	3737.15	1	Switch 1212.3737-06 TU RB 07513211.006-97
	43	3722.90	1	Fuse block BP-11-07 TU RB 03428193.095-97

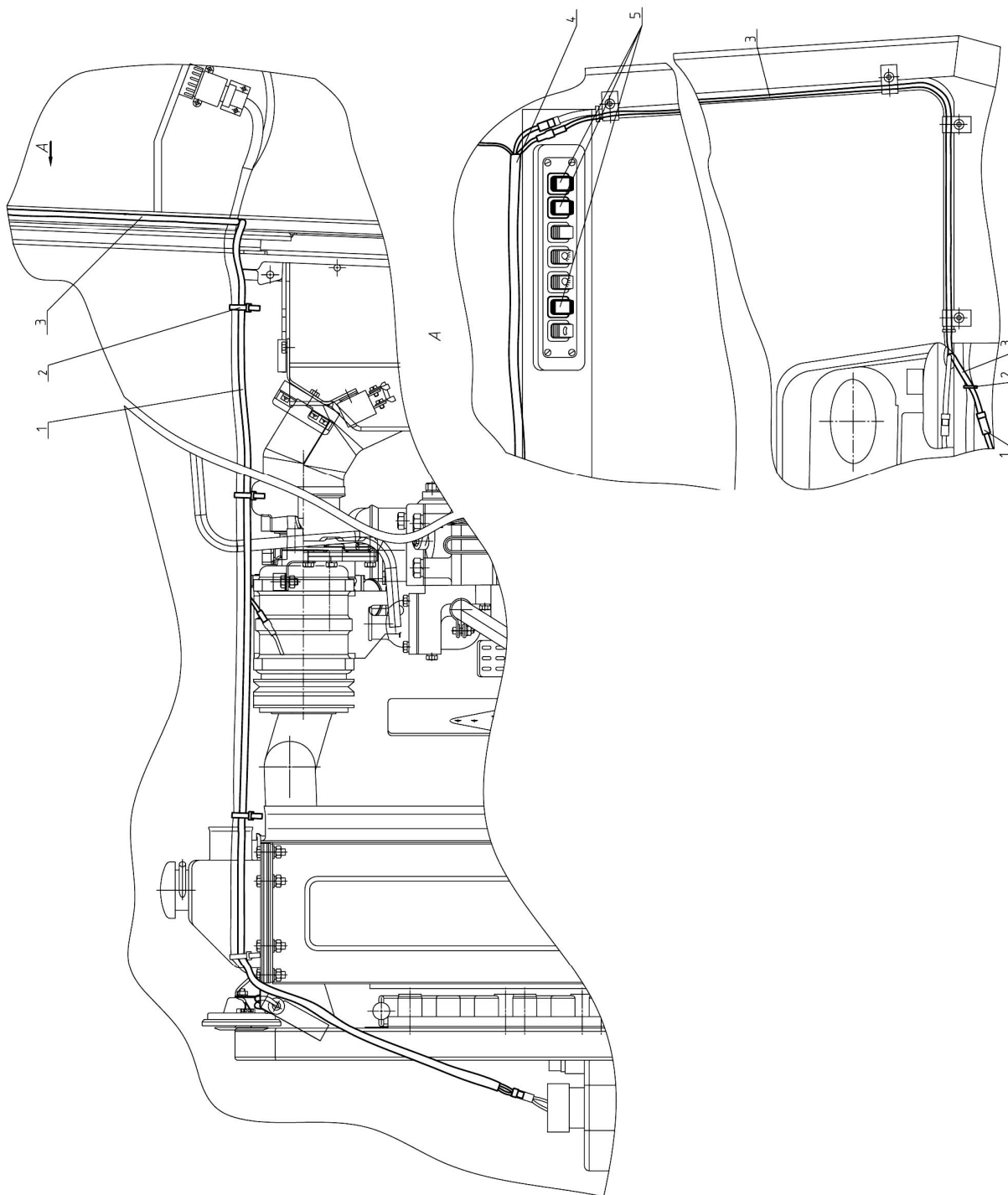


Fig. 37.9 Conditioner electrical equipment

Group 37. Electrical equipment
Subgroup 3730. Conditioner electrical equipment

Fig.	Pos.	Designation	Q-ty	Description
37.9		80-3700115		Conditioner electrical equipment
	1	80-3724375	1	Bundled cable
	2	80-3723045	4	Collar
	3	80-3724357	1	Cable
	4	80-3724355	1	Bundled cable
	5	80-3801327	3	Blind plug

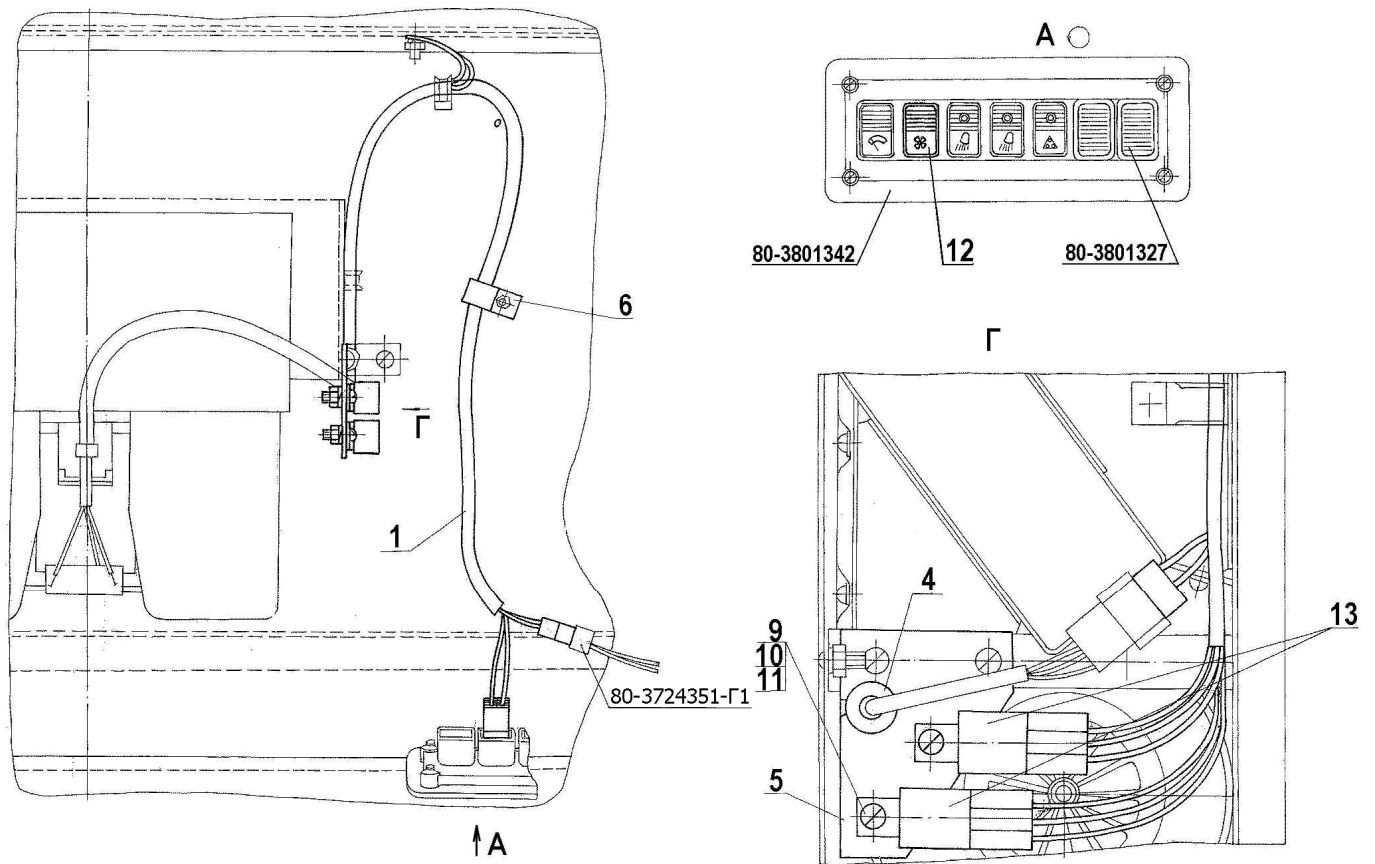


Fig. 37.10 Heater electrical equipment

Group 37 Electrical equipment
Subgroup 3730. Heater electrical equipment

Fig.	Pos.	Designation	Q-ty	Description
37.10		80-3700090-ZH-01		Heater electrical equipment
	1	80-3724354	1	Bundled cable
	4	70-3723042-01	1	Bushing
	5	80-3747016	1	Bracket
	6	1321-8700029	1	Clamp
	9		2	Screw V.M6-6gh12.58.019 GOST 17473-80
	10		2	Nut M6-6N.6.019 GOST 5915-70
	11		2	Washer 6T OST 37.001.115-75
	12	P147M-04.11 or PK147-04.11	1	Fan switch
	13	752.3777.000-10	2	Cut-in relay 30A

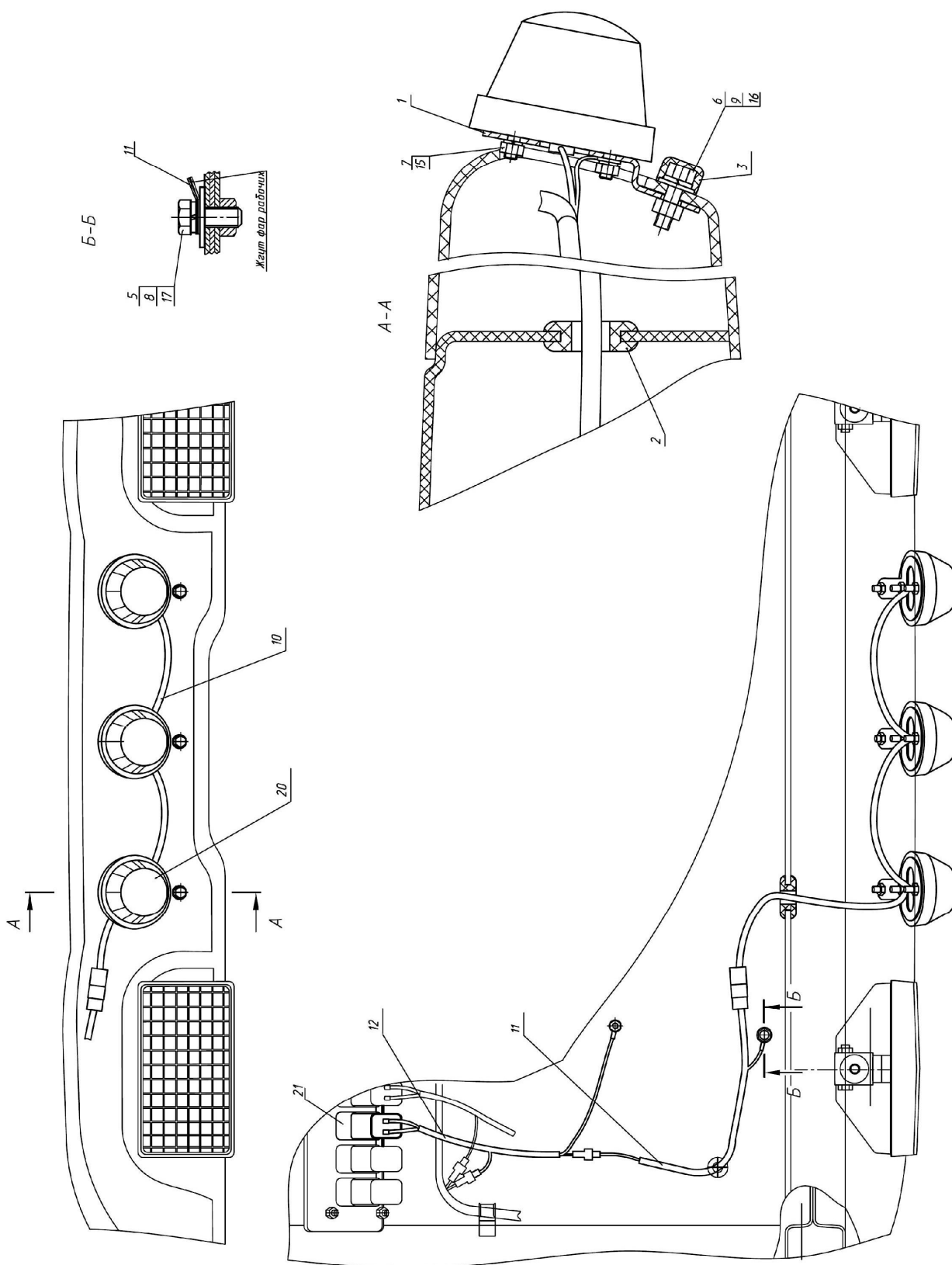


Fig. 37.11 Roadtrain lamp assembly

Group 37. Electrical equipment
Subgroup 3738. Roadtrain lamp assembly

Fig.	Pos.	Designation	Q-ty	Description
37.11		920-3738010		Roadtrain lamp assembly
	1	920-3738005	3	Bracket
	2	70-3723042-01	1	Bushing
	3	A30.04.017	3	Cap
	5		1	Bolt M8-6gh20.88.35.019 GOST 7796-70
	6		3	Bolt M6-6gh20.88.35.019 GOST 7798-70
	7		6	Nut M5-6N.6.019 GOST 5927-70
	8		1	Washer S 8.01.019 GOST 6958-78
	9		3	Washer S.6.01.019 GOST 11371-78
	10	920-3724233 GOST 23544-84	1	Bundled cable
	11	920-3724235 GOST 23544-84	1	Bundled cable
	12	80-3724231-V GOST 23544-84	1	Bundled cable
	15		6	Washer 5T OST 37.001.115-75
	16		3	Washer 6T OST 37.001.115-75
	17		1	Washer 8T OST 37.001.115-75
	20	FA-1 GOST 6964-72 or 112.01.12-01 or 1002.3.04.38010 or UP-101-G1 GOST 6964-72	3	Roadtrain lamp
	21	P150M-25.16 or PK150-25.16	1	Roadtrain sign switch

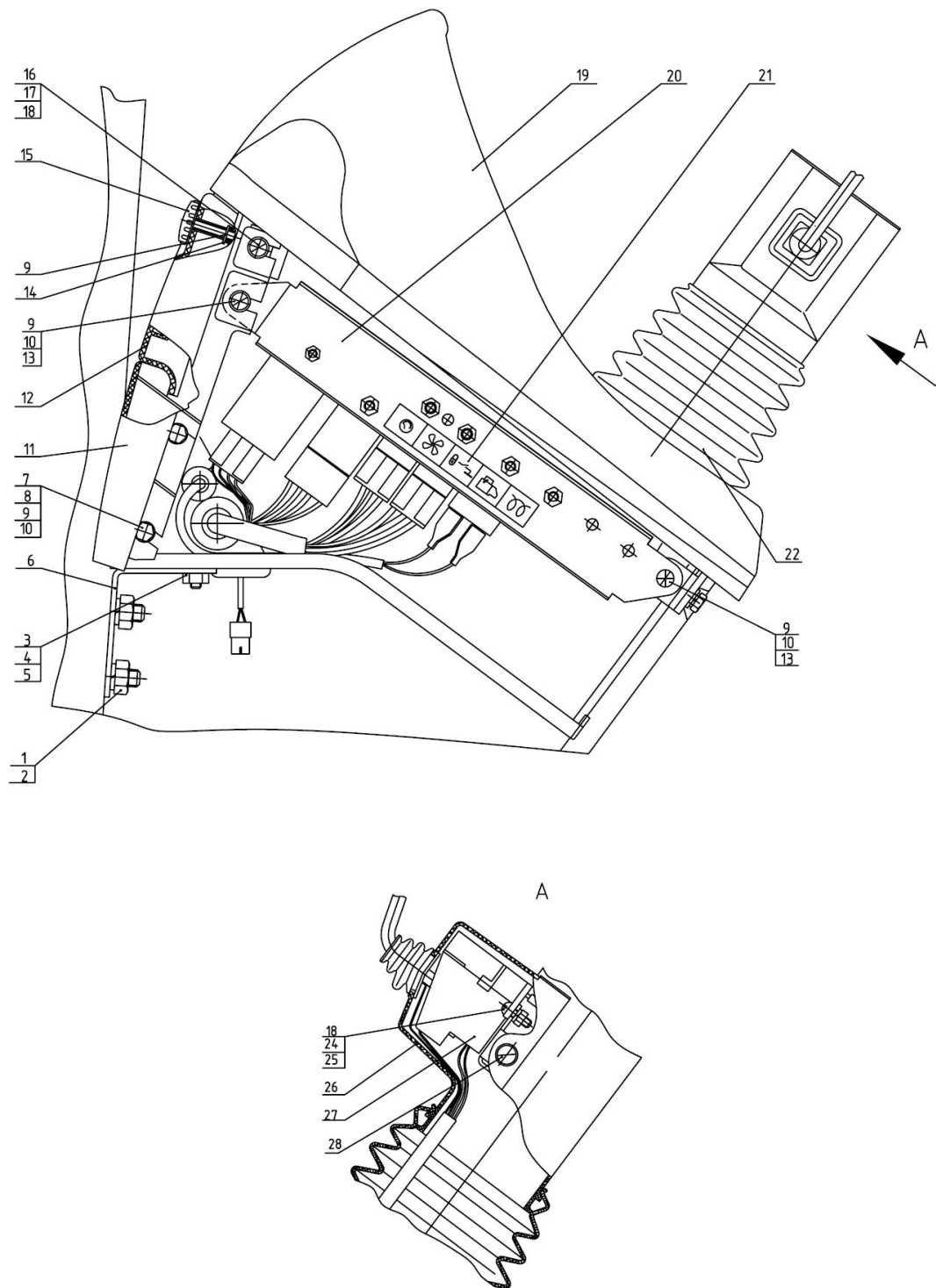


Fig.38.1 Dashboard

Group 38. Instruments
Subgroup 3805. Dashboard

Fig.	Pos.	Designation	Q-ty	Description
38.1, 38.2		926-3805010-11		Dashboard
	1		2	Nut M10-6N.6.019 GOST 5915-70
	2		2	Washer 10 OT OST 37.001.115-75
	3		2	Bolt M8-6gh16.88.35.019
	4		2	Washer 8T OST 37.001.115-75
	5		1	Washer S.8.01.019 GOST 11371-78
	6	80-3805030	2	Bracket
	7		4	Bolt M6-6gh16.88.35.019 GOST 7798-70
	8		18	Nut M6-6N.6.019 GOST 5915-70
	9		10	Washer S.6.01.019 GOST 11371-78
	10		21	Washer 6T OST 37.001.115-75
	11	826-3805045	1	Wall
	12	826-3805061	1	Cover
	13		4	Screw V.M6-6gh16.58.019 GOST 17473-80
	14		2	Ring 006-010-25-1-4 GOST 18829-73/ GOST 9833-73
	15	826-3805065	2	Screw
	16		4	Screw V.M5-6gh20.58.019 GOST 17473-80
	17		4	Washer S.5.01.019 GOST 6958-78
	18		5	Washer 5T OST 37.001.115-75
	19	826-3805021	1	Dashboard
	20	80-3805070	1	Panel
	21	826-3805025	1	Plate
	22	80-3805012-B	1	Sealant
	24		3	Screw V.M5-6gh16.58.019 GOST 17473-80
	25		3	Nut M5-6N.6.019 GOST 5927-70
	26	80-3709023	1	Casing
	27	3912.3769 -03 or 9779	1	Flasher and light switch
	28		2	Screw V.2.M6-6gh16.58.05 GOST 17473-80

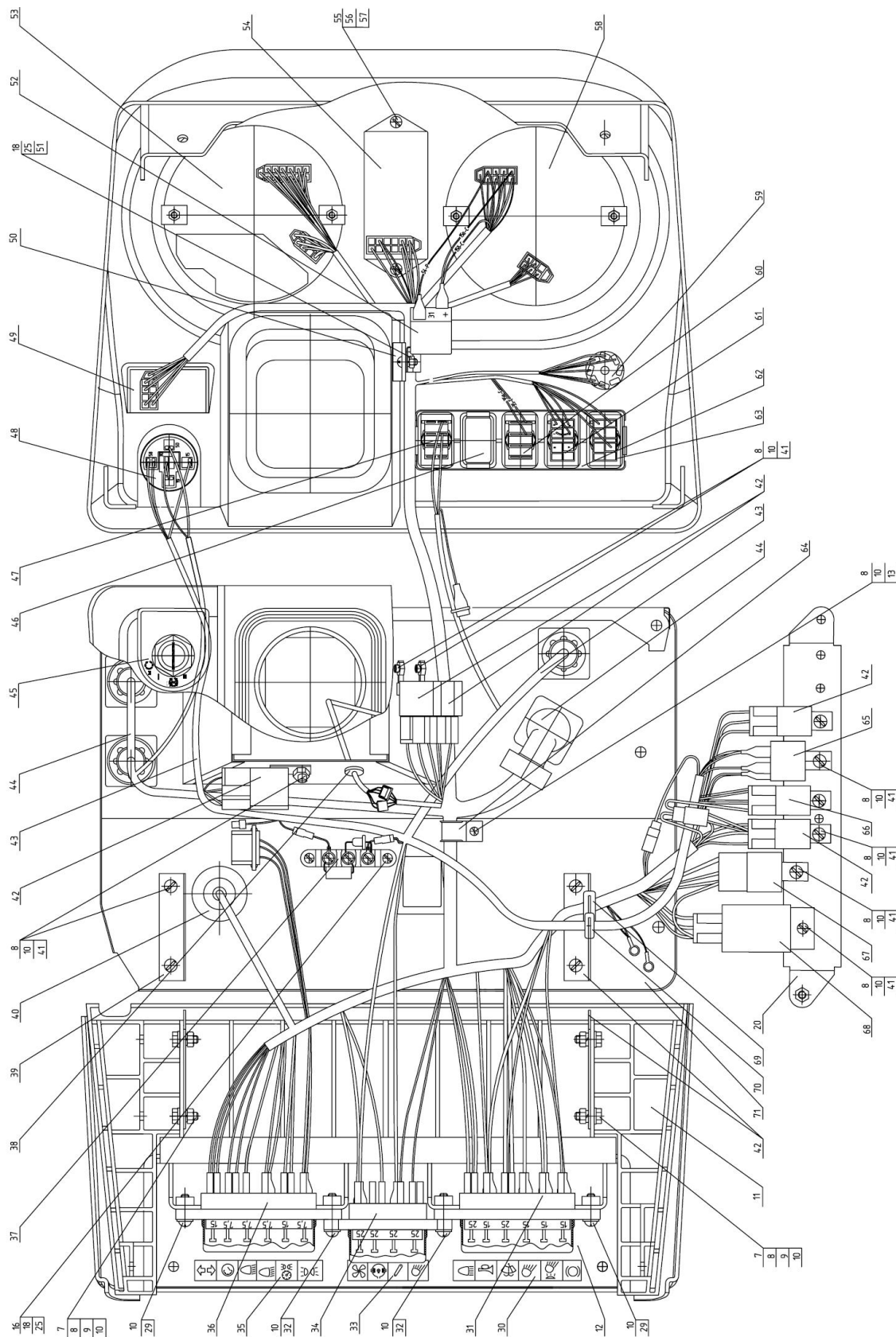


Fig. 38.2 Dashboard

Group 38. Dashboard
Subgroup 3805. Dashboard

Fig.	Pos.	Designation	Q-ty	Description
38.1, 38.2	29		2	Screw V.M6-6gh20.58.019 GOST 17473-80
	30	80-3805027-V	1	Plate
	31	BP-2-01	1	Fuse block
	32		2	Screw V.M6-6gh30.58.019 GOST 17473-80
	33	80-3805037-G	1	Plate
	34	BP-6-02 or B4.3722.2.01	1	Fuse block
	35	80-3805026	1	Plate
	36	BP-1-01	1	Fuse block
	37	SDF-4.1	1	Ballasting resistance (CAN)
	38	50-4607064	1	Bushing
	39	80-3805043	2	Bracket
	40	80-3723048	1	Bushing
	41		13	Screw V.M6-6gh12.58.019 GOST 17473-80
	42	752.3777.000-10	5	Cut-in relay 30A
	43	926-3724517	1	Bundled cable
	44	926.4-3724395	1	Bundled cable
	45	826-3805013-01	1	Plate
	46	80-3801327	1	Blind plug
	47	P150M-14.48 or PK150-14.48	1	Battery disconnect switch
	48	14.0313.0000	1	Starter switch with start locking
	49	KD8105-P	1	Control panel
	50	80-3723038	1	Clip
	51		1	Screw V.M5-6gh12.58.019 GOST 17473-80
	52	733.3747	1	Relay annunciator
	53	KD 8105-1	1	Integrated indicator (CAN)
	54	BI 8112.3803-1	1	Pilot lamps unit
	55		2	Screw V.M4-6gh12.58.019 GOST 17473-80
	56		2	Washer S.4.01.019 GOST 11371-78
	57		2	Washer 4 OST 37.001.115-75
	58	KD 8110-2	1	Instrument board KP-6 CAN
	59	245.3710 or 249.3710-05	1	Warning switch
	60	P150M-14.10 or PK150-14.10	1	Winscreen washer switch
	61	P147M-04.29 or PK147-04.29	1	Light switch
	62	826-3710011	1	Switches jack
	63	P150M-25.52 or PK150-25.52	1	Working lights switch
	64	80-3723043	1	Clip
	65	738.3747-30	1	Starter relay
	66	752.3777.000-20	1	Cut-out relay 20A
	67	738.3747-40	1	Instruments power relay
	68	ERP-1 or RP-1	1	Flashers breaker
	69	70-3723042-02	1	Bushing
	70	70-3723042-01	1	Bushing
	71	80-3805050-B1-03	1	Base

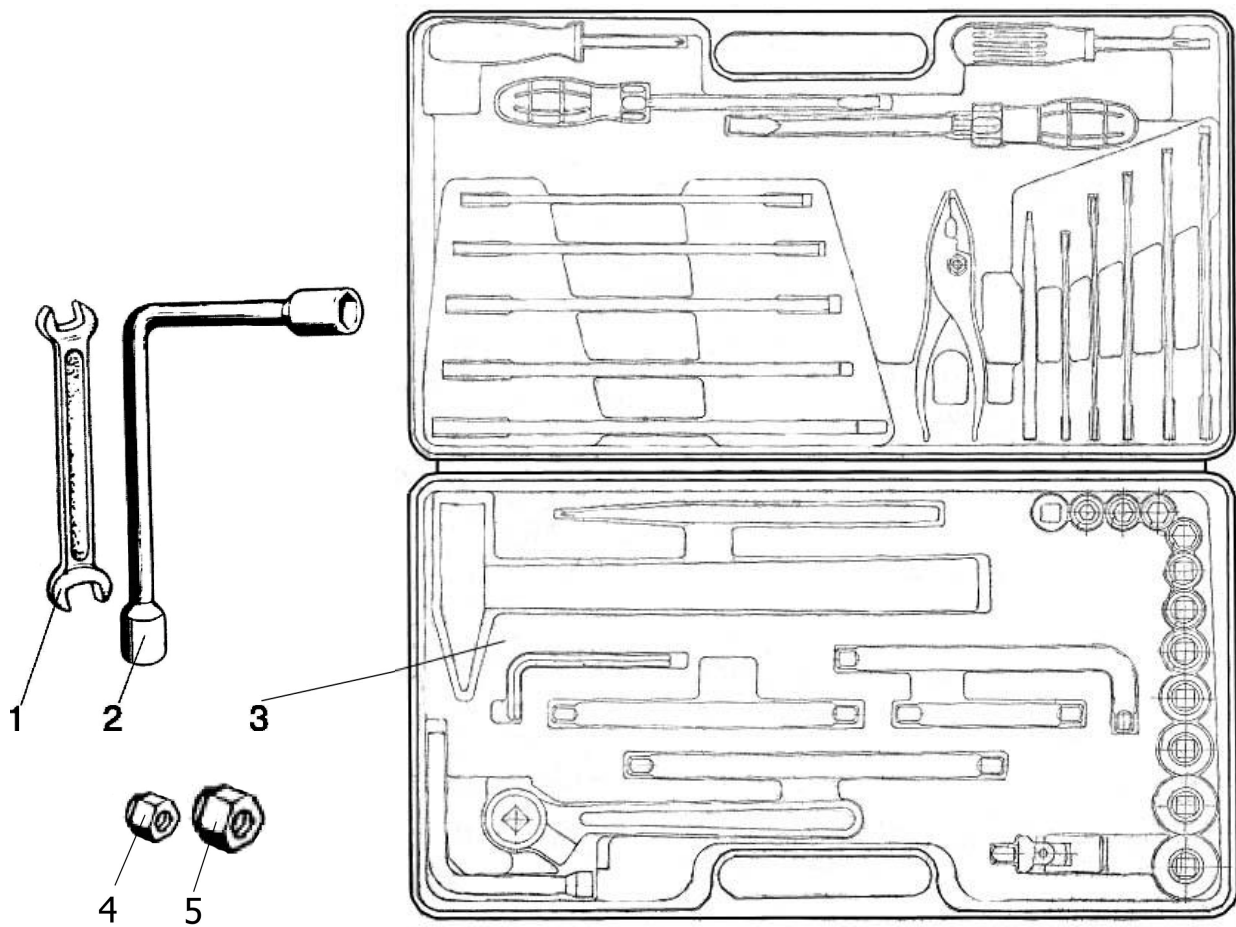


Fig. 39.1. Operator's tool

Group 39. Tools and accessories
Subgroup 3901. Operator's tool

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
39.1	1	70-3901038	1	Wrench 41x46
	2	70-3901027	1	Socket wrench S=27h32
	3	3900.0001 *	1	Tool kit
	4	40-3103017-01	2	Wheel disc retaining nut (for BELARUS-100H/80H.1»)
	5	36-3104019	2	Nut

*Optional

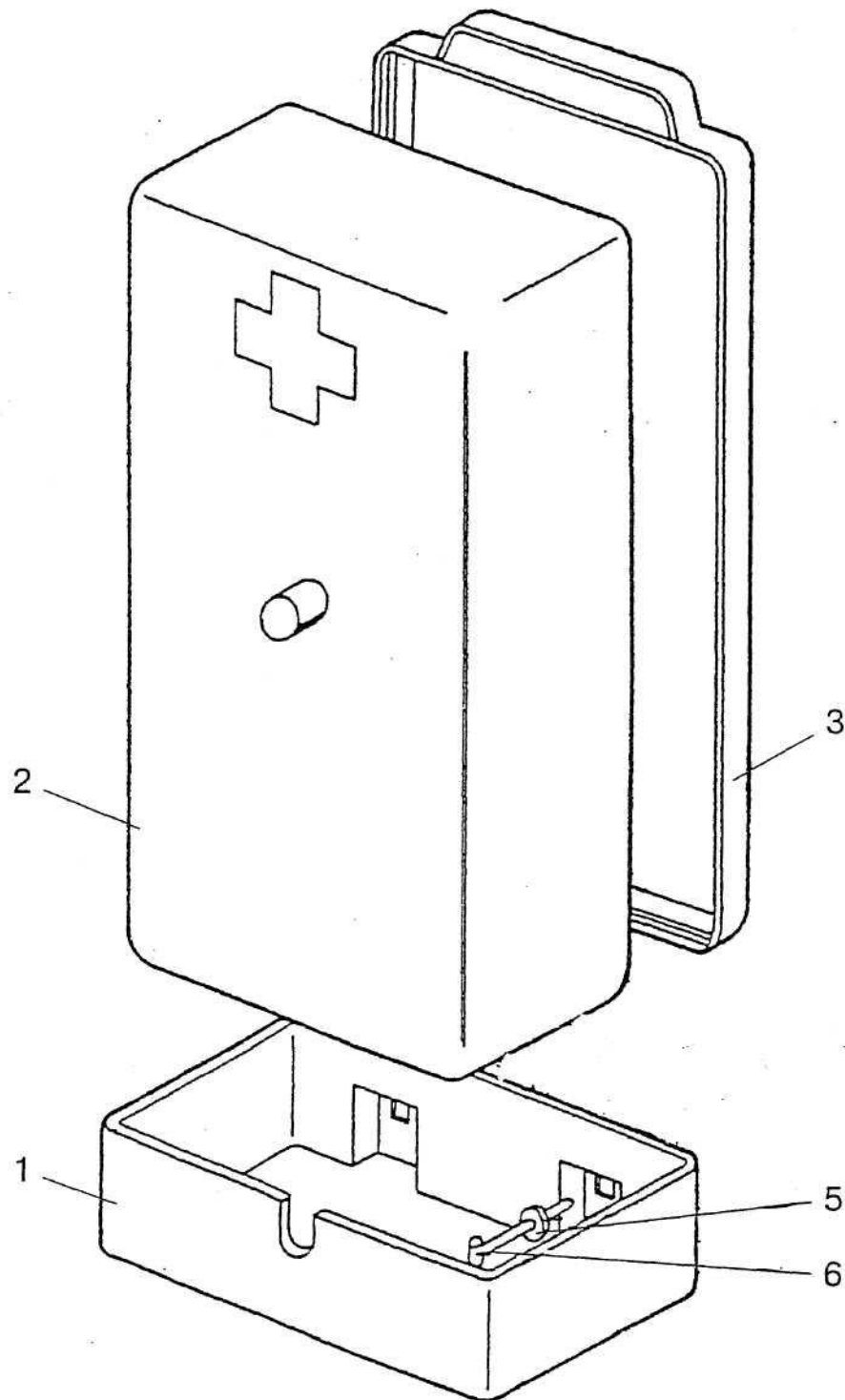


Fig. 39.2 First-aid kit

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

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
39.2		2522-3912150	1	First-aid kit
	1	70-3912153-A	1	Bracket
	2	70-3912152	1	Housing
	3	70-3912151	1	Cover
	5		2	Washer S.6.01.019 GOST 11371-78
	6		2	Screw V.M6-6gh20.58.019 GOST 17473-80

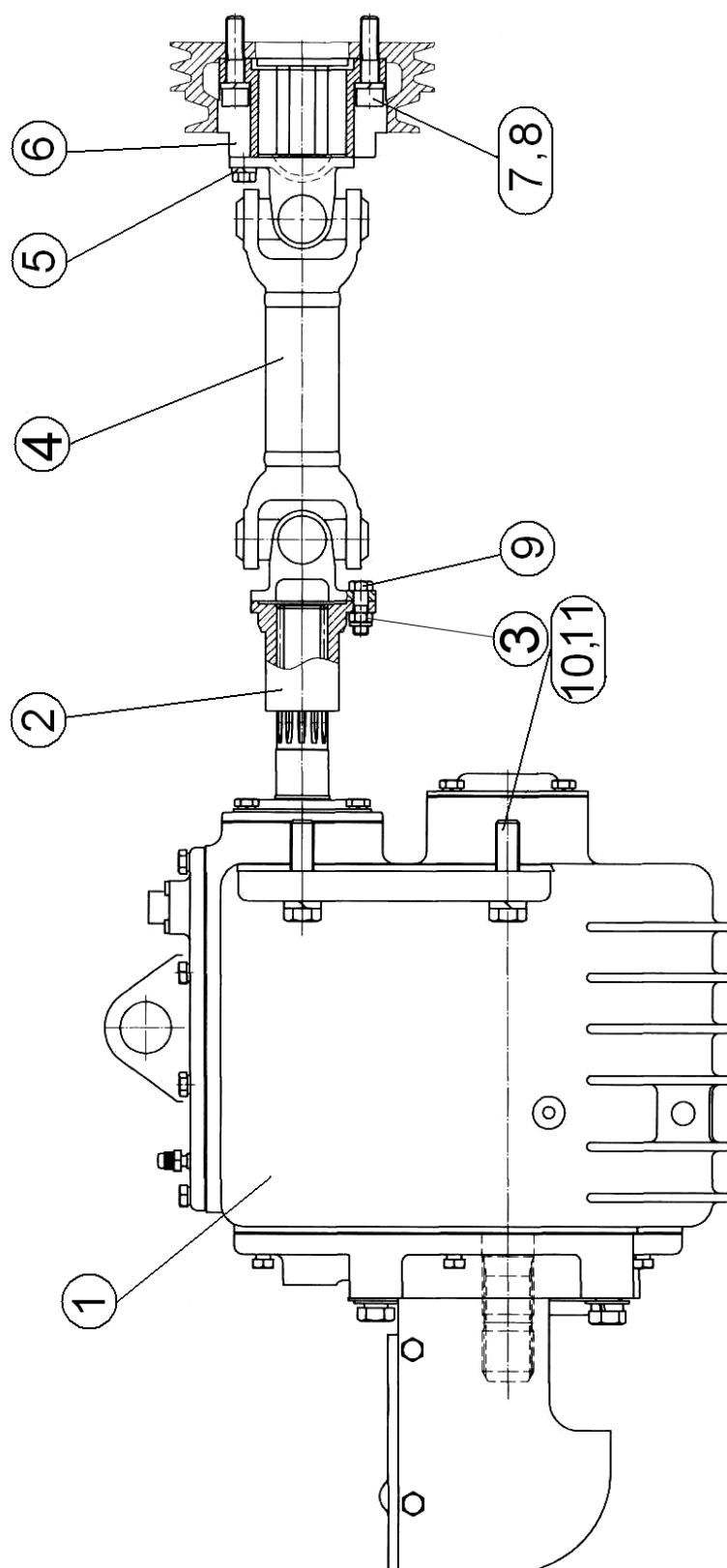


Fig. 42.1. Front power take-off shaft

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Group 42. Power take-off
Subgroup 4209. Front power take-off shaft

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
42.1		1522-4209010B-01	1	Front PTO
	1	1522-4209025-01	1	Gear unit
	2	1522-4209017	1	Flange
	3		1	Hexagon nut M10x1-8 DIN 985
	4	1522-4209015-01	1	Shaft
	5		4	Washer 10 OT OST 37.001.115-75
	6	1522-4209018	1	Spacer
	7		6	Screw M12-6gh50.68.019 GOST 11738-84
	8		6	Washer 12 OT OST 37.001.115-75
	9	52-2203012	8	Bolt
	10		4	Bolt M16-6gh60.88.35.019 GOST 7795-70
	11		4	Washer 16 OT OST 37.001.115-75

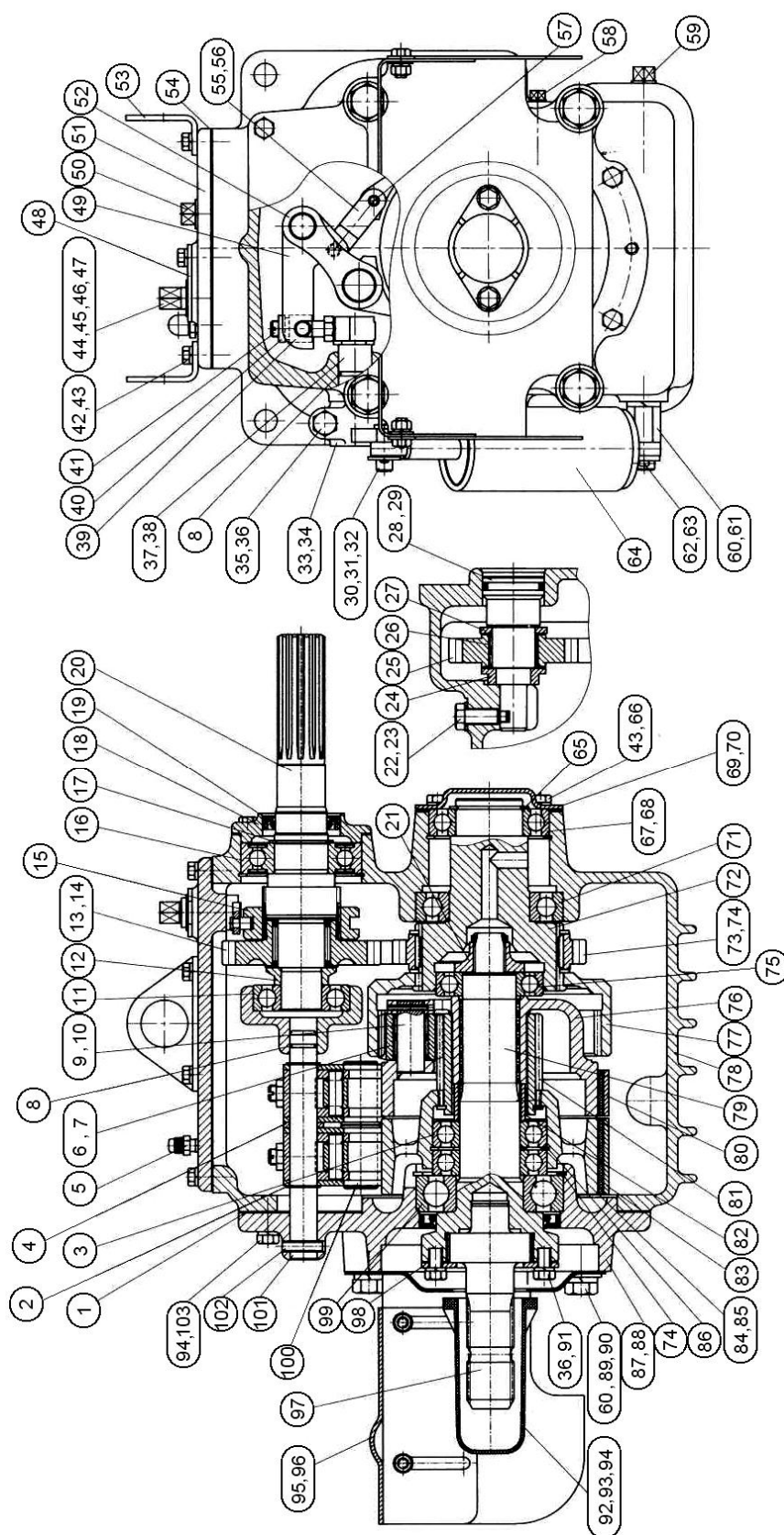


Fig. 42.2 Front power take-off shaft. Gear unit

Group 42. Power take-off
Subgroup 4209. Front power take-off shaft. Gear unit

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
42.2		1522-4209025	1	Gear unit
	1	1521-4209042	1	Gasket
	2		2	Ring S204 GOST 13940-86
	3		2	Bearing 209 A GOST 8338-75
	4	1521-4209076	1	Bushing
	5	«MINTOR» TSSOG-1/8"	1	Breather
	6	70-4202024	3	Planet pinion
	7	KK20h26h34E	3	Bearing
	8	021-025-25-1-4	1	Ring
	9	70-4202026	3	Planet pinion axle
	10	4hZ0	3	Dowel
	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		1	Ring S40 GOST 13940-86
	18	1522-4209060	1	Cover
	19		1	Collar 2.2-38h58-1 GOST 8752-79/OST 3805146-78
	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	Axle
	29		1	Ring 038-046-46-1-4 GOST 18829-73/GOST 9833-73
	30		1	Pin 12h32 OST 37.001.163-97
	31		1	Split pin 3,2h18.019 GOST 397-79
	32		2	Washer S.8.01.019 GOST 11371-78
	33	50-3503063	1	Hub
	34	1521-4209066	1	Plate
	35		1	Bolt M12-6gh35.88.35.019 GOST 7796-70
	36		1	Washer 12 OT OST 37.001.115-75
	37	1521-4209040	1	Lever
	38	SSH6h11	1	Key
	39	1522-4209084	2	Nut
	40	1522-4209082	2	Pin
	41	1522-4209083	2	Screw
	42		14	Bolt M8-6gh25.88.35.019 GOST 7796-70
	43		18	Washer 8T OST 37.001.115-75
	44	1521-4209086	1	Shaft
	45	1521-4209087	1	Plate
	46	70-1601114	1	Dowel
	47		1	Ring 017-022-30-1-4 GOST 18829-73/GOST 9833-73
	48	1521-4209056	1	Plate

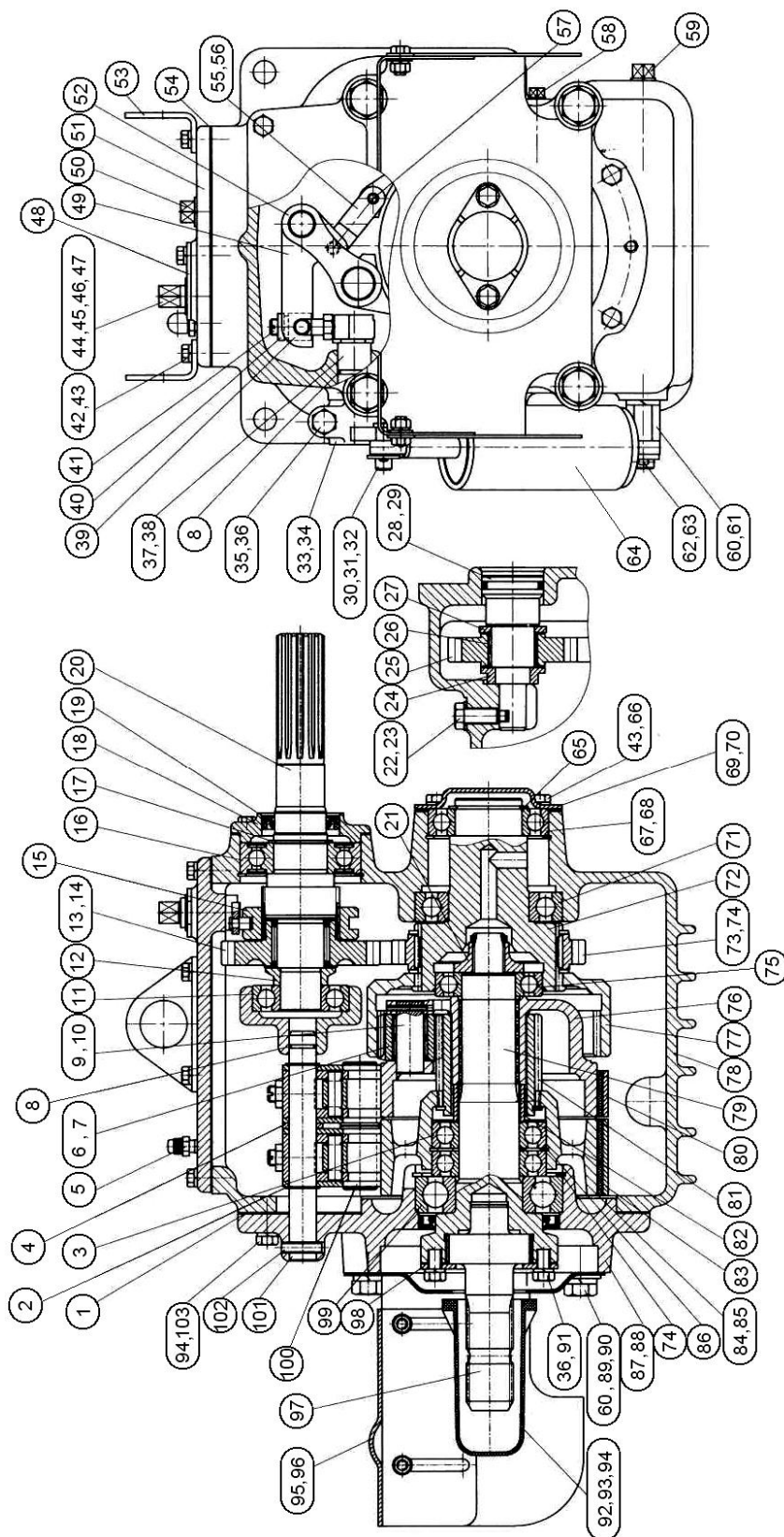


Fig. 42.2 Front power take-off shaft. Gear unit

Group 42. Power take-off
Subgroup 4209. Front power take-off shaft. Gear unit

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
42.2	49	1521-4209081	2	Lever
	50	PK KG 3/4"	1	Plug
	51	1522-4209057	1	Cover
	52	2522-4209149	4	Buckle
	53	80-4608073	2	Bracket
	54	1522-4209041	1	Gasket
	55	1521-4209078	2	Buckle
	56		1	Dowel 2.10h35.TS9.hr. GOST 3128-70
	57	SHTSK8h36	1	Dowel
	58	KG 1/8"	1	Plug
	59	PK KG 3/8"	1	Plug
	60		5	Washer 16 OT OST 37.001.115-75
	61	1521-4209037	1	Bolt
	62		1	Split pin 3,2h18.019 GOST 397-79
	63		1	Washer S.16.01.019 GOST 11371-79
	64	80-4216100	1	Cylinder
	65		2	Ring 2S50 GOST 13940-86
	66		4	Bolt M8-6gh20.88.35.019 GOST 7796-70
	67	210 AUSH1	1	Bearing
	68		2	Ring 2S90 GOST 13941-86
	69	1521-4209038	1	Cover
	70	1521 -4209039	2	Gasket
	71	212 AUSH1	1	Bearing
	72	1522-4209046	1	Shaft
	73	1521-4209047	1	Gear
	74	2S110	3	Ring 2S110 GOST 13941-86
	75	208A	1	Bearing
	76	85-4202065	1	Carrier
	77	70-4202043	1	Crown gear
	78	1522-4209026	1	Housing
	79	80-4202017-B	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		1	Ring 2S68 GOST 13941-86
	86		1	Ring 2S85 GOST 13941-86
	87	1521-4209071	1	Cover
	88		1	Collar 2.2-80h105-1 GOST 8752-79/OST 3805146-78
	89		4	Bolt M16-6gh32.88.35.019 GOST 7796-70
	90		2	Washer S.16.01.019 GOST 11371-79
	91		7	Bolt M10-6gh18.88.35.019 GOST 7796-70
	92	80-4202101	1	Cap
	93		2	Bolt M8-6gh16.88.35.019 GOST 7796-70
	94		11	Washer 10 OT OST 37.001.115-75
	95	2022-4209200	1	Guard
	96		2	Washer S.12.01.019 GOST 11371-79

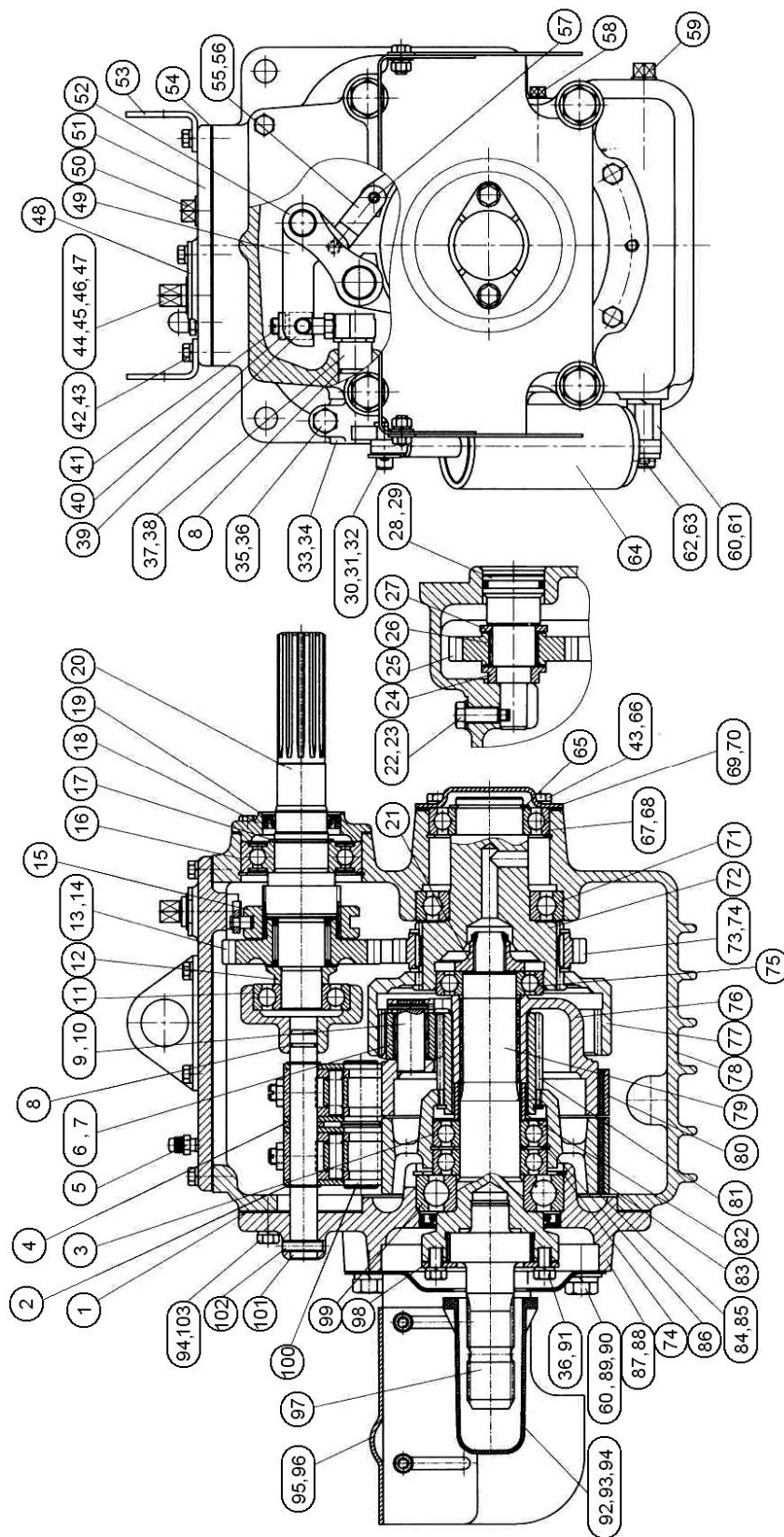


Fig. 42.2 Front power take-off shaft. Gear unit

Group 42. Power take-off
Subgroup 4209. Front power take-off shaft. Gear unit

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
42.2	97	80-4202019-B-02	1	Shaft end
	98	80-4202081-A	1	Plate
	99	60310A	1	Bearing
	100	2522-4209148	2	Pin
	101	1521-4209072	1	Axle
	102		1	Dowel A.8h30.65G Chem.phosph.oil. GOST 14229-93
	103	M10h25	6	Bolt M10-6gh25.88.35.019 GOST 7796-70

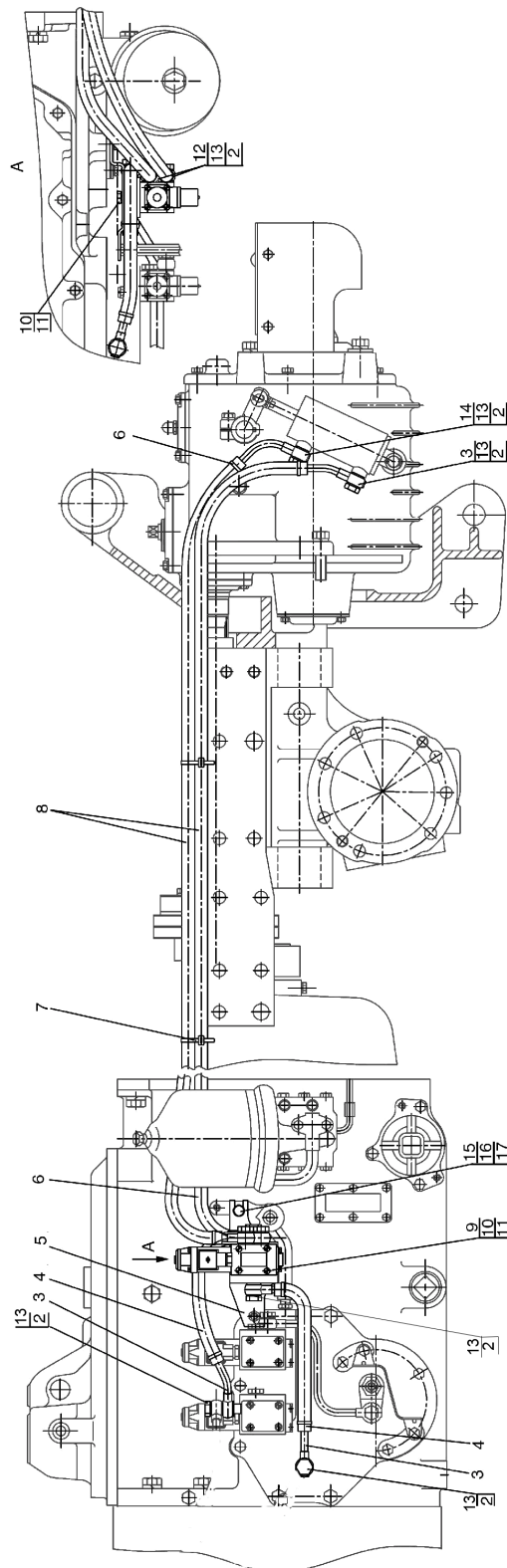


Fig. 42.3 Front power take-off shaft control

Group 42. Power take-off
Subgroup 4216. Front power take-off shaft control

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
42.3		1523-4218010-01	1	Front PTO control
	1	240-1111103	2	Bolt
	2	RM14	16	Washer
	3	1221-4216035	3	Tip
	4	1221-4218014	2	Hose pipe
	5	1221-4216253	1	Bracket
	6		2	Clamp/Clamp NORMA TORRO 12-22/971 or Clamp "NORMA" TORRO 12-20/9-C6W
	7	80-3723045-01	4	Collar
	8	1221-4218016	2	Hose pipe
	9	1221-4216180	1	Plate with distributor
	10		2	Bolt M8-6gh20.88.35.019 GOST 7796-70
	11		2	Washer 8T OST 37.001.115-75
	12	F80-3407720	4	Oil pipeline
	13	D18-051	8	Bolt
	14	1221-4216055	1	Tip
	15		1	Bolt M10-6gh20.88.35.019 GOST 7796-70
	16		1	Washer S.10.01.019 GOST 11371-78
	17		1	Washer 10 OT OST 37.001.115-75

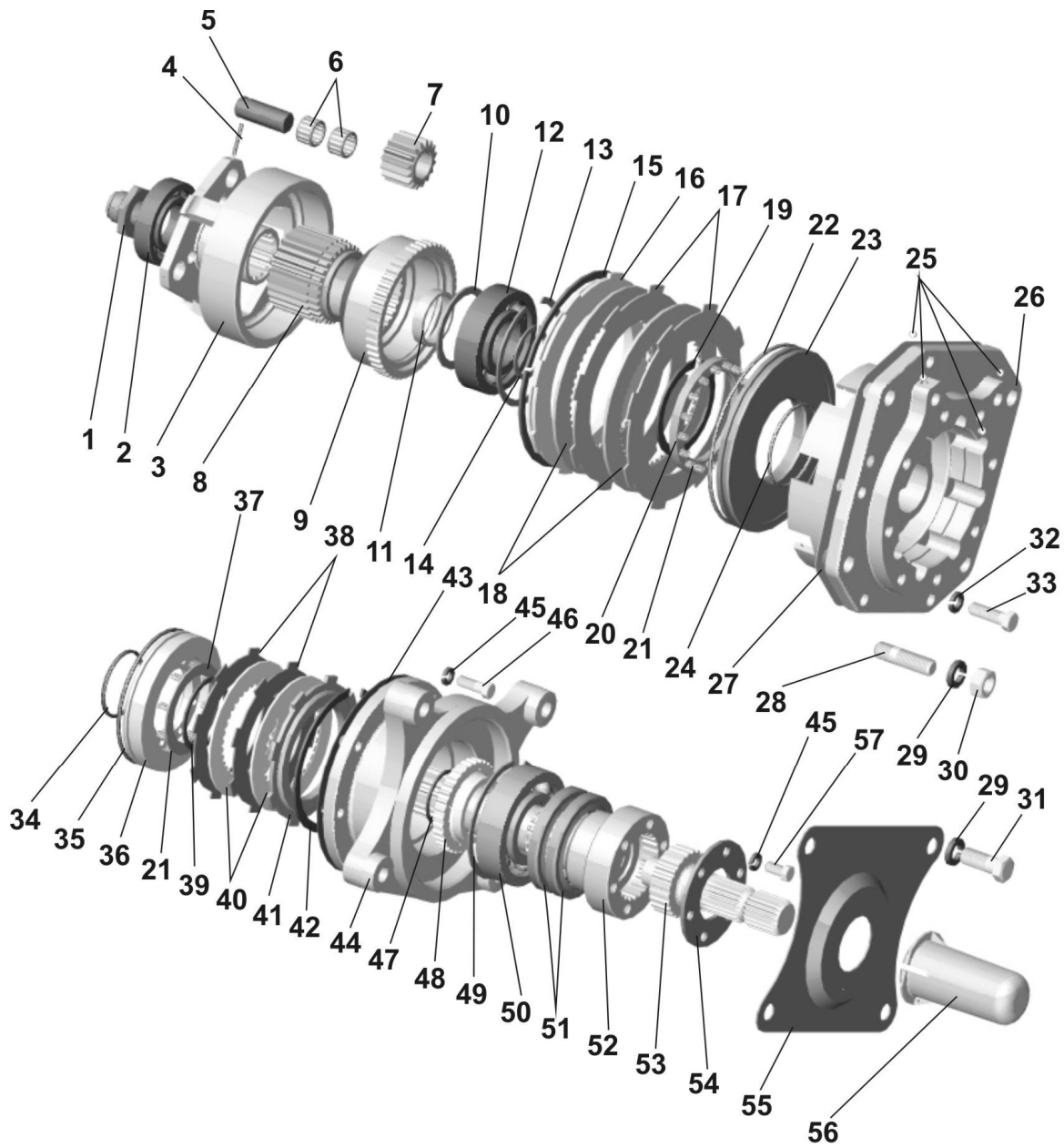
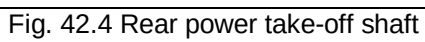


Fig. 42.4 Rear power take-off shaft

Group 42. Power take-off
Subgroup 4202. Rear power take-off shaft

Fig.	Pos.	Designation	Q-ty	Description
42.4		1025-4202010	1	Rear power take-off shaft
		1025-4202020	1	Gear unit (1-26, 32-44,46-52)
	1	70-4202083-A	1	Nut
	2		1	Bearing 208A GOST 8338-75
	3	1025-4202065	1	Carrier
	4	70-4202431	3	Dowel
	5	70-4202026	3	Planet pinion axle
	6		6	Bearing SKF K20h26h17
	7	70-4202024	3	Planet pinion
	8	1025-4202036	1	Sun gear
	9	1025-4202037	1	Clutch
	10		1	Ring 2S65 GOST 13940-86
	11	1025-4202003	1	Bushing
	12		1	Bearing 309K GOST 8338-75
	13		1	Ring 2S100 GOST 13941-86
	14		1	Ring S45 GOST 13940-86
	15	80-1701392-A	1	Ring
	16	80-1701379	1	Thrust disc
	17	80-1701384	2	Drive plate
	18	80-1701375	2	Driven plate DM 05
	19		1	Ring C80 GOST 13940-86
	20	77-1601373	1	Spring support
	21	77-1601067	16	Spring
	22		1	Ring 165-170-36-2-4 GOST 18829-73/9833-73
	23	1025-4202009	1	Piston
	24		1	Ring 075-080-30-1-4 GOST 18829-73/9833-73
	25		4	Ball 7,144-60 GOST 3722-81
	26	1025-4202006	1	Housing
	27	1025-4202001	1	Gasket
	28		4	Stud M16 3r/6gh45.66.019 GOST 22034-76
	29		8	Washer 16 OT OST 37.001.115-75
	30		4	Nut M16-6N.6.019 GOST 5915-70
	31		4	Bolt M16-6gh40.88.35.019 GOST 7796-70
	32		5	Washer12 OT OST 37.001.115-75
	33	M12-6gh40.88.35.019 GOST 7796-70	5	Bolt
	34	059-065-36-2-4 GOST 18829-73/9833-73	1	Ring
	35	125-130-36-2-2 GOST 18829-73/9833-73	1	Ring
	36	1025-4202007	1	Piston
	37	1025-4202008	5	Washer
	38	86-1802032	2	Driven plate
	39		1	Ring 2S65 GOST 13940-86
	40	86-1802035-A	2	Drive plate
	41	86-1802034	1	Thrust disc
	42		1	Ring S135 GOST 13941-86
	43	1025-4202004	1	Gasket
	44	1025-4202011	1	Cover
	45		14	Washer 10 OT OST 37.001.115-75
	46	M10-6gh30.88.35.019 GOST 7796-70	8	Bolt
	47		1	Ring 2S50 GOST 13940-86
	48	1025-4202013	1	Clutch



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1221.5

**Group 42. Power take-off
Subgroup 4202. Rear power take-off shaft**

Fig.	Pos.	Designation	Q-ty	Description
42.4	49		1	Ring 2S110 GOST 13941-86
	50		1	Bearing 60310A GOST 7242-81
	51		2	Collar 2.2-75h100-1 GOST 8752-79/OST 3805146-78
	52	1025-4202012	1	Shaft
	53	80-4202019-B	1	Shaft end (8 splines)
		80-4202019-B-01 ¹⁾	1	Shaft end (6 splines)
		80-4202019-B-02 ¹⁾	1	Shaft end (21 splines)
	54	80-4202081-A	1	Plate
	55	1321-4212180	1	Plate
	56	50-4202065-A-01	1	Cap
	57		6	Bolt M10-6gh20.88.35.019 GOST 7796-70
¹⁾ Optional				

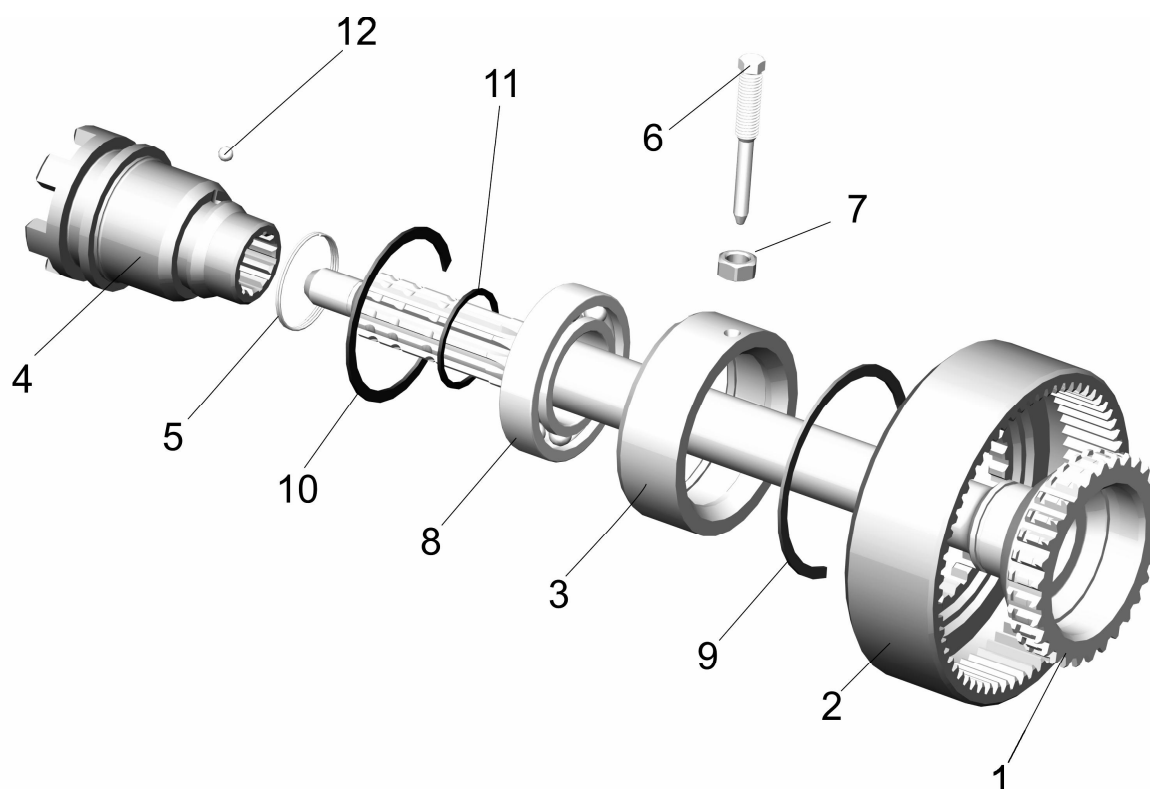


Fig. 42.5 Rear power take-off shaft

Group 42. Power take-off
Subgroup 4202. Rear power take-off shaft

Fig.	Pos.	Designation	Q-ty	Description
42.5		70-4202030-A	1	Crown gear (1-12)
	1	70-4202044-B	1	Shaft
	2	70-4202043	1	Crown gear
	3	50-4202066-A	1	Body
	4	50-4202046-B	1	Shift collar
	5	A61.03.002	1	Ring
	6	50-4202068	1	Screw
	7		1	Nut M12h1,25-6N.6.019 GOST 5915-70
	8		1	Bearing 210 AUSH1 GOST8338-75
	9		1	Ring 2S110 GOST 13941-86
	10		1	Ring 2S90 GOST 13941-86
	11		1	Ring 2S50 GOST 13940-86
	12		1	Ball 7,938-100 GOST 3722-81

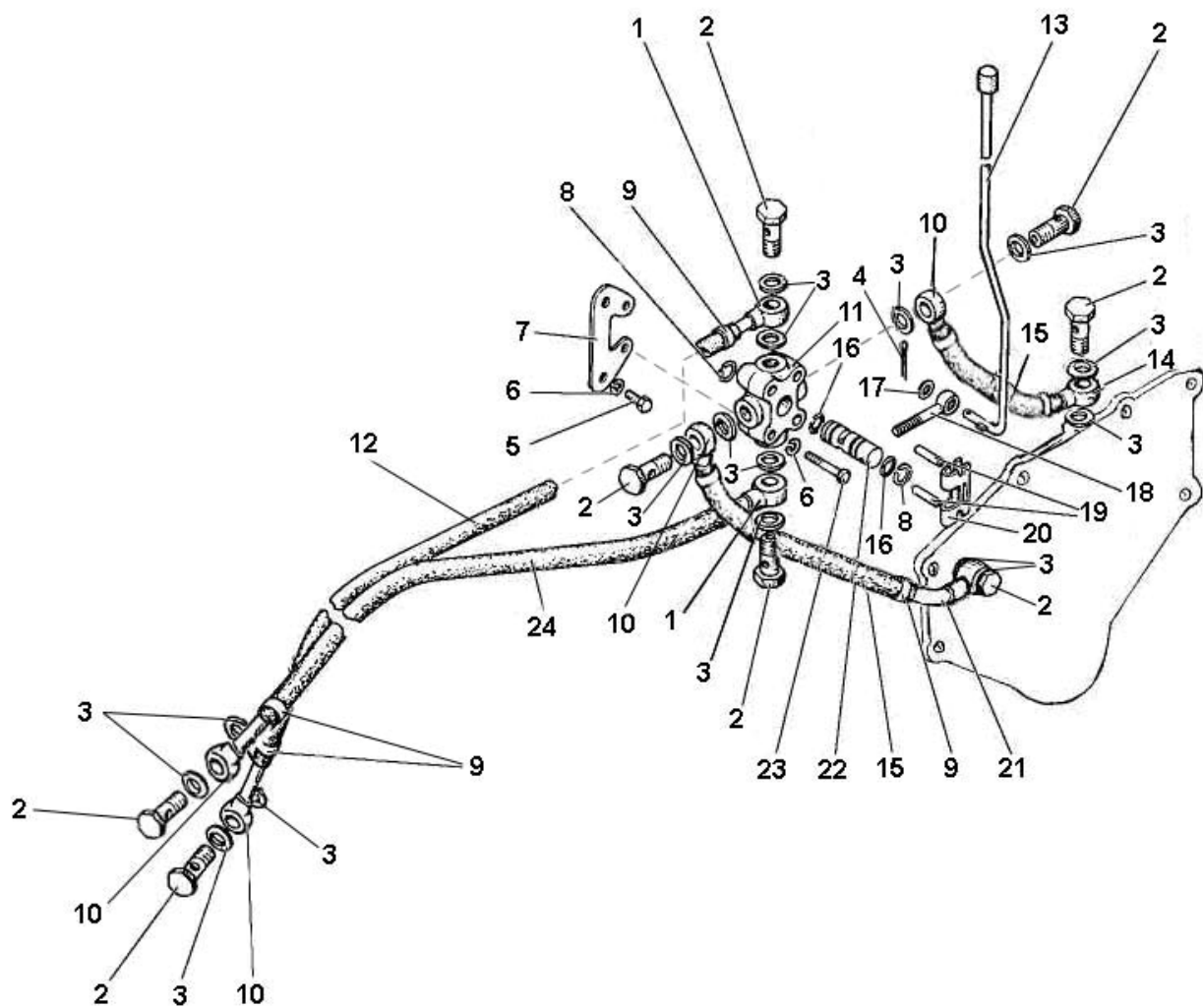


Fig.42.6 Rear power take-off shaft control (for dry brakes)

Group 42. Power take-off
Subgroup 4216. Rear power take-off shaft control

Fig.	Pos.	Designation	Q-ty	Description
42.6		1025-4216005	1	Rear PTO control
	1	85-4216135	2	Oil pipeline
	2	D18-051	8	Bolt
	3	D18-055-A or RM14	16	Ring
	4		1	Split pin 3,2h18.019 GOST 397-79
	5		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	6		4	Washer 6T OST 37.001.115-75
	7	85-4216127	1	Plate
	8		2	Ring S16 GOST 13940-86
	9	"NORMA" TORRO 12-20/9-C6W	8	Clamp
	10	F80-3407720	4	Oil pipeline
	11	85-4216121	1	Housing
	12	1221-4216104	1	Hose pipe 10h18,5-1,6 GOST10362-76 L=(1200±10)mm
	13	85-4216142	1	Rod
	14	1221-4216055	1	Tip
	15	1221-4216016	2	Hose pipe 10h18,5-1,6 GOST10632-76 L=(300±10) mm
	16		2	Ring 012-016-25-2-4 GOST 18829-73/GOST 9833-73
	17		1	Washer S 8.01.019 GOST 11371-78
	18	85-4216123	1	Lever
	19		2	Dowel A.6h30.65G GOST 14229-93
	20	85-4216124	1	Stop member
	21	1221-4216035	1	Tip
	22	85-4216122	1	Slide valve
	23		2	Bolt M6-6gh40.88.35.019 GOST 7795-70
	24	1221-4216101	1	Hose pipe 10h18,5-1,6 GOST10362-76 L=(1000±10)mm

**Group 42. Power take-off.
Subgroup 4216. Rear power take-off shaft control**

Fig.	Pos.	Designation	Q-ty	Description
42.7		1025-4216005-01	1	Rear PTO control
	1	3,2h18.019 GOST 397-79	1	Split pin
	2	85-4216135	2	Oil pipeline
	3	1221-4216055	1	Tip
	4	"NORMA" TORRO 12-20/9-C6W	8	Clamp
	5	1221-4216104	1	Hose pipe10h18,5-1,6 GOST10362-76 L=(1200±10) mm
	6		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	7		4	Washer 6T OST 37.001.115-75
	8	1221M-4216011	1	Bracket
	9		2	Ring S16 GOST 13940-86
	10	F80-3407720	4	Oil pipeline
	11	D18-051	8	Bolt
	12	D18-055A or RM14	16	Ring
	13	85-4216121	1	Housing
	14		2	Ring 012-016-25-2-4 GOST 18829-73/GOST9833-73
	15		1	Washer S 8.01.019 GOST 11371-78
	16	1221M-4216012	1	Rod
	17	1221-4216035	1	Tip
	18	85-4216123	1	Lever
	19		2	Dowel A.6h30.65G GOST 14229-93
	20	85-4216124	1	Stop member
	21	1221-4216016	2	Hose pipe10h18,5-1,6 GOST10362-76 L=(300±10) mm
	22	85-4216122	1	Slide valve
	23		2	Bolt M6-6gh40.88.35.019 GOST 7795-70
	24	1221-4216101	1	Hose pipe10h18,5-1,6 GOST10362-76 L=(1100±10) mm
	25		2	Washer S 6.01.019 GOST 11371-78

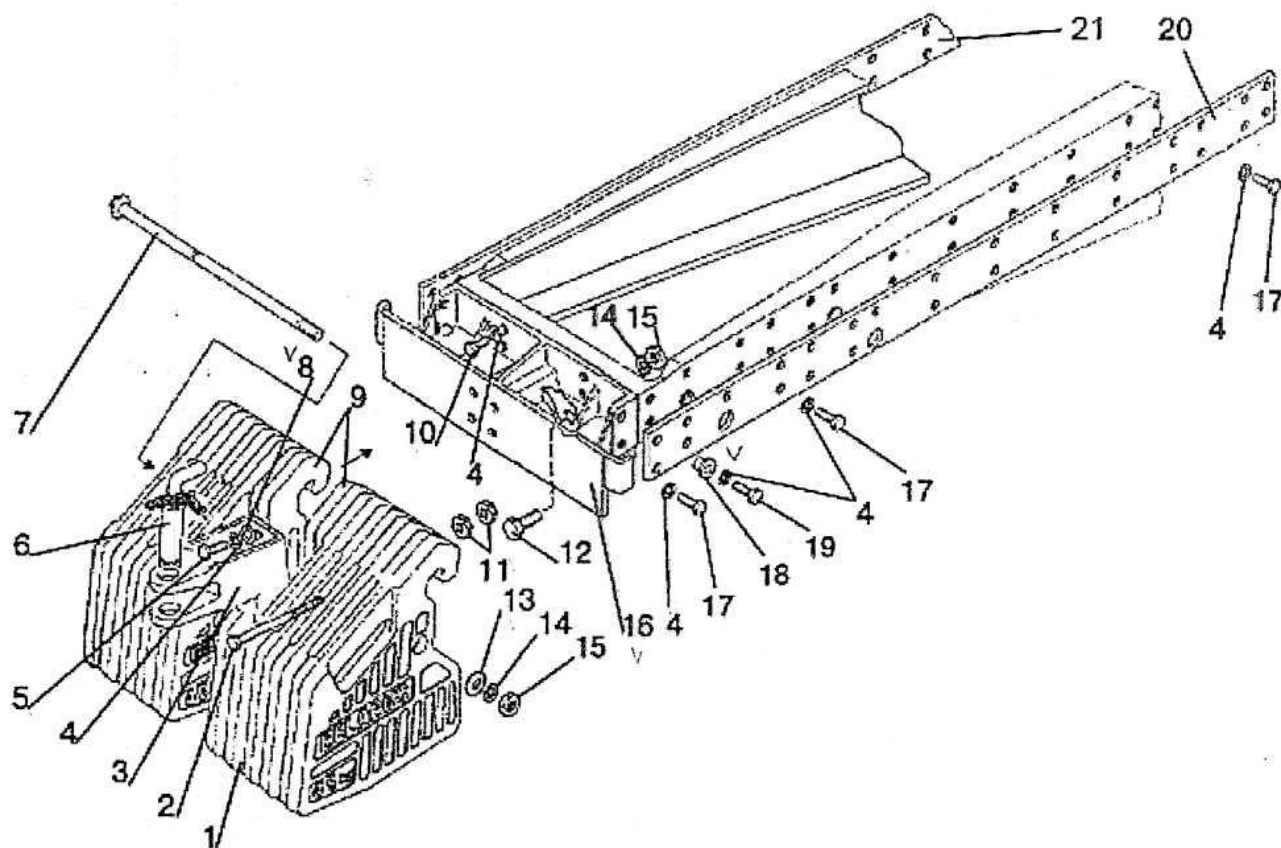


Fig. 42.8 Ballast

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**Group 42. Power take-off
Subgroup 4235. Ballast**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
42.8	1	80-4235011-A	8	Weight 45 kg
	2	1025-4235012	2	Bolt
	3	85-4235025-B	1	Eye
	4		46	Washer 16 OT OST 37.001.115-75
	5		2	Bolt M16-6gh45.88.35.019 GOST 7796-70
	6	70-4235030	1	Pin
	7	1025-4235015-01	1	Cord
	8		2	Washer S.16.01.019 GOST 11371-79
	9	1521-4235011-A	2	Weight 40 kg
	10		4	Bolt M16-6gh40.88.35.019 GOST 7796-70
	11		4	Nut M18-6N.6.019 GOST 5915-70
	12	70-4605036	2	Bolt
	13	40-3502084	1	Washer
	14		3	Washer 20 OT OST 37.001.115-75
	15		3	Nut M20-6N.6.019 GOST 5915-70
	16	1521-4235020	1	Bracket
	17		38	Bolt M16-6gh50.88.35.019 GOST 7796-70
	18	1521-4535029	2	Bushing
	19		2	Bolt M16-6gh60.88.35.019 GOST 7795-70
	20	1222-4235012	1	Left plate
	21	1222-4235013	1	Right plate



Group 46. Remote-control hydraulic system
Subgroup 4605. Lift linkage with hydraulic lift

Fig.	Pos.	Designation	Q-ty	Description
46.1		K1220-4605510	1	Rear lift linkage (1-83)
		1220-4605120	2	Buckle (1-8, 10)
		1223-4605530-04 or 1220-4605530-04 or 1220-4605530-06	2	Link (67, 78, 79, 81, 82)
		1220-4605590 or A61.03.000 or A61.03.000-01	1	Upper link (36-43)
		1220-4605610-01	2/1/0	Lifting rod (19, 45-66, 68-70)
		1220-4605670	1	Bracket (16, 30-35)
		1220-4605695	1	Screw (39-43)
		1220-4605612-01	0/1/2	Lifting rod (74-77)
	1		6	Split pin 4h36.019 GOST 397-79
	2		4	Nut M16-6H.04.019 GOST 5919-73
	3	1220-4605104	4	Bolt
	4	1220-4605107	4	Eye bar
	5	1220-4605102	2	Screw
	6		2	Nut M24-6N.04.019 GOST 5916-70
	7	1220-4605103	2	Buckle
	8	1220-4605102-01	2	Screw (LH)
	9	F50-4605084	2	Pin
	10	1220-4605105	2	Eye bar
	11	1220-4605091-B1	1	Right bracket
		1220-4605091-B1-01	1	Left bracket
	12	680-2707024	8	Bolt
	13		8	Washer 20 OT OST 37.001.115-75
	14	1220-4605504	2	Plate
	15		5	Washer 12 OT OST 37.001.115-75
	16		4	Bolt M12-6gh25.88.35.019 GOST 7796-70
	17	1220-4605503	2	Pin
	18	80-2800016-01	2	Bolt
	19		16	Washer 16 OT OST 37.001.115-75
	20	1220-4605506	6	Bolt
	21	1220-4605507	2	Dowel
	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	Cotter key
	27	1220-4605501	1	Bracket
	28		2	Nut M20h1,5-6N.04.019 GOST 5919-73
	29	142-4605076 or 921-4605076	2	Pin
	30	1220-4605675	1	Bracket
	31	M12-6gh35.88.35.019 GOST 7796-70	1	Bolt
	32		1	Washer S 12.01.019 GOST 11371-78
	33	50-4605069	1	Bushing
	34	A61.07.002	1	Spring
	35		1	Nut M12-6N.04.019 GOST 5916-70
	36	A61.02.100-03	1	Screw
	37	A61.03.100	1	Pipe



**Group 46. Remote-control hydraulic system
Subgroup 4605. Lift linkage with hydraulic lift**

Fig.	Pos.	Designation	Q-ty	Description
46.1	38	A61.02.003	1	Locknut
	39	1220-4605570	1	Screw with pivot Ø 32 (cat.3)
		A61.02.100-04	1	Screw with pivot Ø 22,5
		A61.02.100-05	1	Screw with pivot Ø 25,7 (cat.2)
	40	A61.03.002	2	Ring
	41	A61.08.001-03	2	Chain (7 links)
	42	A61.05.100-05	1	Cotter key with ring
	43	1220-4605693	1	Pin Ø 31,75 (3 kat)
		A61.02.001-01	1	Pin Ø 25 (2 kat)
		A61.02.001-02	1	Pin Ø 22
	44	1220-4605557	1	Reduction sleeve for cat. 2
	45		4	Bolt M16-6gh40.88.35.019 GOST 7796-70
	46	1220-4605668-B	2	Eye bar
	47	A61.01.600	2	Shaft
	48	A61.01.016	2	Axle
	49	A61.01.400	2	Yoke
	50	A61.01.014	2	Handle
	51	142-4605408	4	Bolt
	52	A61.01.017	4	Bushing
	53		2	Ring 016-021-30-2-4 GOST 18829-73/GOST 9833-73
	54	142-4605431	4	Ring
	55	142-4605404-B	2	Pin
	56	142-4605418-B	2	Cover
	57	142-4605421	2	Gasket
	58	142-4605413	2	Gear
	59	A61.01.005	2	Axle
	60	142-4605403	2	Limiter
	61	142-4605425	2	Pipe
	62		2	Bearing 8210 GOST 7872-89
	63		2	Oiler 1.3.TS9.hr GOST 19853-74
	64	142-4605415	2	Housing
	65	142-4605417	2	Bushing
	66	142-4605407	2	Pipe
	67	1223-4605530-04	2	Link
	68	142-4605406	2	Cap
	69	142-4605401	2	Limiter
	70	1220-4605615	2	Yoke
	71	50-3503071	2	Washer
	72	A61.07.001	2	Spring split pin
	73	1220-4605084-01	2	Pin
	74	1220-4605075	1	Screw
	75	1220-4605422	1	Buckle
	76	1220-4605424	1	Locknut
	77	1220-4605620-B	1	Yoke
	78	70-4605316	2	Nut
	79		2	Split pin 5h36.019 GOST 397-79
	80	1220-4605558	2	Reduction sleeve for cat. 2
	81	A61.05.100	2	Cotter key
	82	1220-4605108	2	Eye
	83		2	Washer S 16.01.019 GOST 11371-78

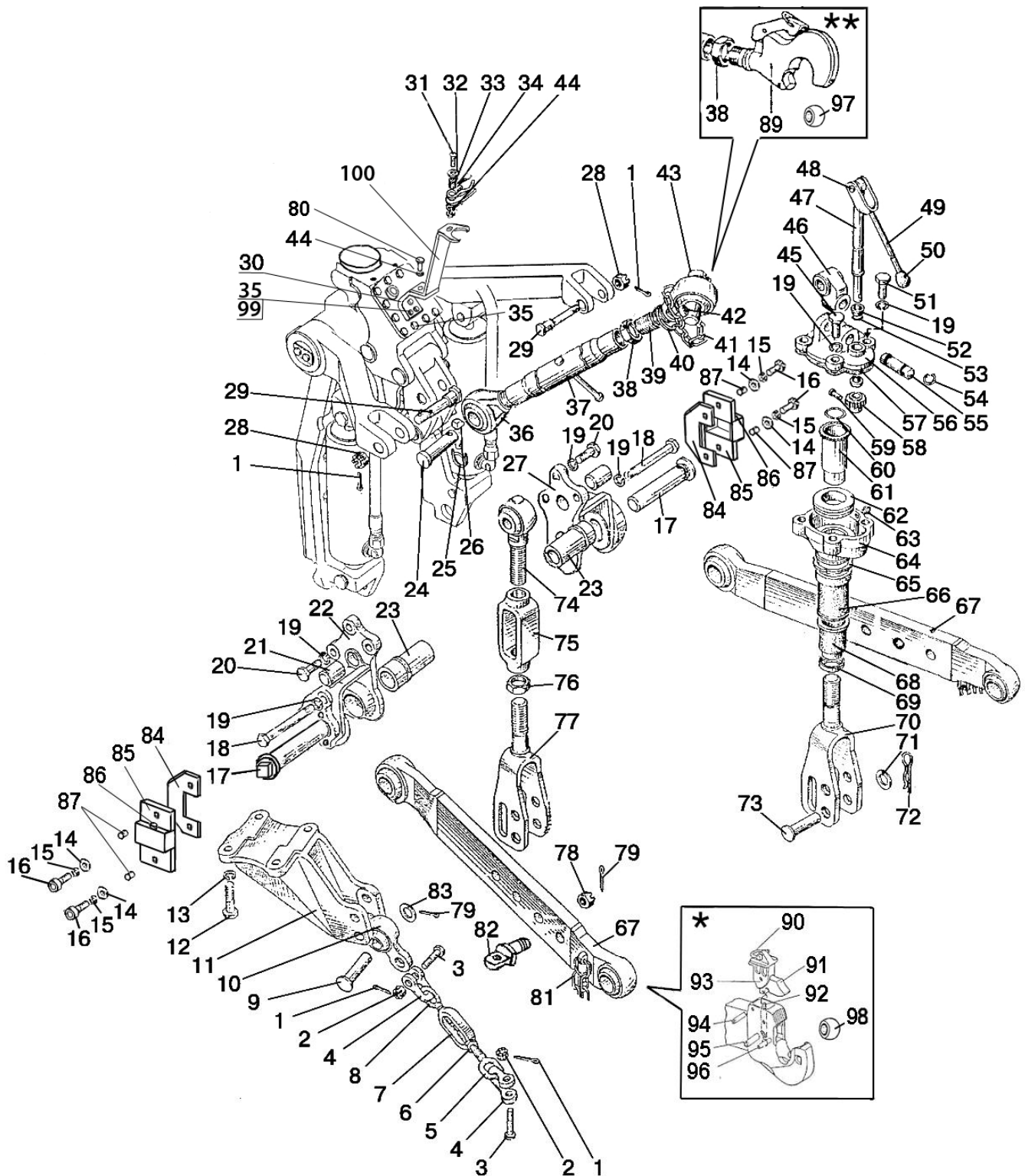


Fig. 46.2. Lift linkage

Group 46. Remote-control hydraulic system
Subgroup 4605. Lift linkage

Fig.	Pos.	Designation	Q-ty	Description
46.2		E1220-4605510	1	Rear lift linkage (1-83)
		1220-4605120	2	Buckle (1-8, 10)
		1223-4605630-04 ¹⁾ 1220-4605635-04 ¹⁾ 1220-4605530-06	1 1 2	Link (67, 78, 79, 81, 82)
		80-4605690 ¹⁾ or A61.03.000-01	1	Upper link (36-43)
		1220-4605610-01	2/1	Lifting rod (19, 45-66, 68-70)
		70-4605145-01	1	Bracket (16, 30-35)
		A61.03.200-01	1	Screw (39-43)
		1220-4605612-01	0/1	Lifting rod (74-77)
	1		6	Split pin 4h36.019 GOST 397-79
	2		4	Nut M16-6H.04.019 GOST 5919-73
	3	1220-4605104	4	Bolt
	4	1220-4605107	4	Eye bar
	5	1220-4605102	2	Screw
	6		2	Nut M24-6N.04.019 GOST 5916-70
	7	1220-4605103	2	Buckle
	8	1220-4605102-01	2	Screw (LH)
	9	F50-4605084	2	Pin
	10	1220-4605105	2	Eye bar
	11	1220-4605091-B1	1	Right bracket
		1220-4605091-B1-01	1	Left bracket
	12	680-2707024	8	Bolt
	13		8	Washer 20 OT OST 37.001.115-75
	14		4	Washer S10.01.019 GOST 11371-78
	15		4	Washer 10 OT OST 37.001.115-75
	16	M10-6gh35.56.019 GOST 11738-84	4	Screw
	17	Bosch R917000159	2	Power sensor
	18	80-2800016-01	2	Bolt
	19		16	Washer 16 OT OST 37.001.115-75
	20	1220-4605506	6	Bolt
	21	1220-4605507	2	Dowel
	22	E1220-4605501-01	1	Bracket
	23	1220-4605502-01	2	Bushing
	24	A61.10.001-02	1	Pin
	25	A61.05.004	1	Ring
	26	A61.05.005	1	Cotter key
	27	E1220-4605501	1	Bracket
	28	M20h1,5-6N.04.019 GOST 5919-73	2	Nut
	29	142-4605076 or 921-4605076	2	Pin
	30	E1221-4605671	1	Bracket
	31	M12-6gh35.88.35.019 GOST 7796-70	1	Bolt
	32		1	Washer S 12.01.019 GOST 11371-78
	33	50-4605069	1	Bushing
	34	A61.07.002	1	Spring
	35	M8-6gh30.88.35.019 GOST 7796-70	3	Bolt
	36	A61.02.100-03	1	Screw
	37	A61.03.100	1	Pipe

¹⁾ Links with hooks

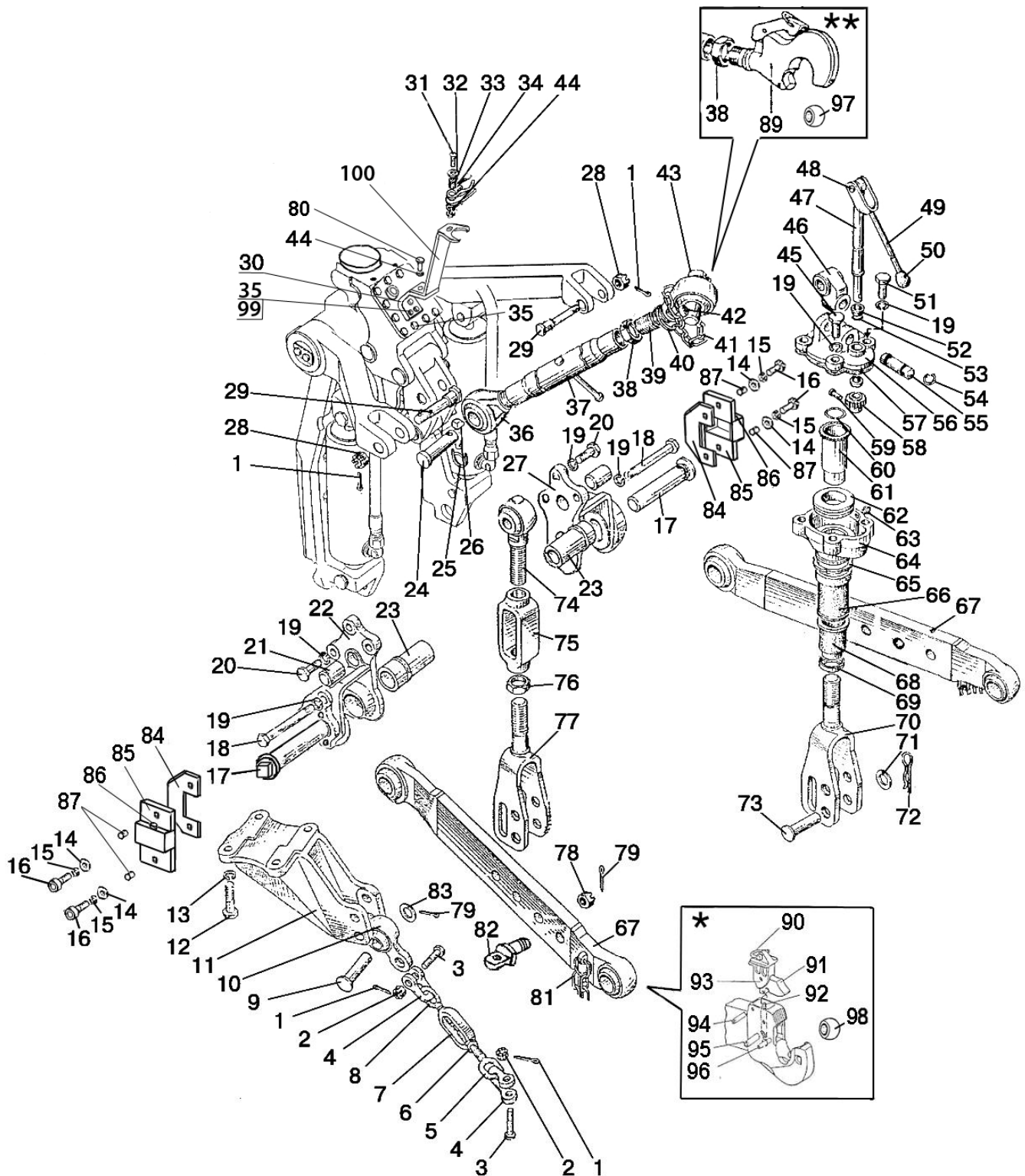


Fig. 46.2. Lift linkage

Group 46. Remote-control hydraulic system
Subgroup 4605. Lift linkage

Fig.	Pos.	Designation	Q-ty	Description
46.2	38	A61.02.003	1	Locknut
	39	A61.02.100-05	1	Screw with pivot Ø 25,7 (2 кат)
	40	A61.03.002	2	Ring
	41	A61.08.001-03	2	Chain (7 links)
	42	A61.05.100-05	1	Cotter key with ring
	43	A61.02.001-01	1	Pin Ø 25 (cat.2)
	44		2	Washer 12 OT OST 37.001.115-75
	45	M16-6gh40.88.35.019 GOST 7796-70	4	Bolt
	46	1220-4605668-B	2	Eye bar
	47	A61.01.600	2	Shaft
	48	A61.01.016	2	Axle
	49	A61.01.400	2	Yoke
	50	A61.01.014	2	Handle
	51	142-4605408	4	Bolt
	52	A61.01.017	4	Bushing
	53		2	Ring 016-021-30-2-4 GOST 18829-73/GOST 9833-73
	54	142-4605431	4	Ring
	55	142-4605404-B	2	Pin
	56	142-4605418-B	2	Cover
	57	142-4605421	2	Gasket
	58	142-4605413	2	Gear
	59	A61.01.005	2	Axle
	60	142-4605403	2	Limiter
	61	142-4605425	2	Pipe
	62	8210 GOST 7872-89	2	Bearing
	63	1.3.TS9.hr GOST 19853-74	2	Oiler
	64	142-4605415	2	Housing
	65	142-4605417	2	Bushing
	66	142-4605407	2	Pipe
	67	1223-4605530-06	2	Link
	68	142-4605406	2	Cap
	69	142-4605401	2	Limiter
	70	1220-4605615	2	Yoke
	71	50-3503071	2	Washer
	72	A61.07.001	2	Spring split pin
	73	1220-4605084-01	2	Pin
	74	1220-4605075	1	Screw
	75	1220-4605422	1	Buckle
	76	1220-4605424	1	Locknut
	77	1220-4605620-B	1	Yoke
	78	70-4605316	2	Nut
	79	5h36.019 GOST 397-79	2	Split pin
	80	M12-6gx25.88.35.019 GOST 7796-70	2	Bolt
	81	A61.05.100	2	Cotter key
	82	1220-4605108	2	Eye
	83		2	Washer S 16.01.019 GOST 11371-78
	84	1522-4605701	2	Clip
	85	1522-4605006	2	Cover
	86	70-3723042-01	2	Bushing
	87	1522-4605702	4	Bushing
	89	80-4605685 ²⁾	1	Hook

¹⁾ Links with hooks

²⁾ Screw with hook

³⁾ For Walterscheid hook

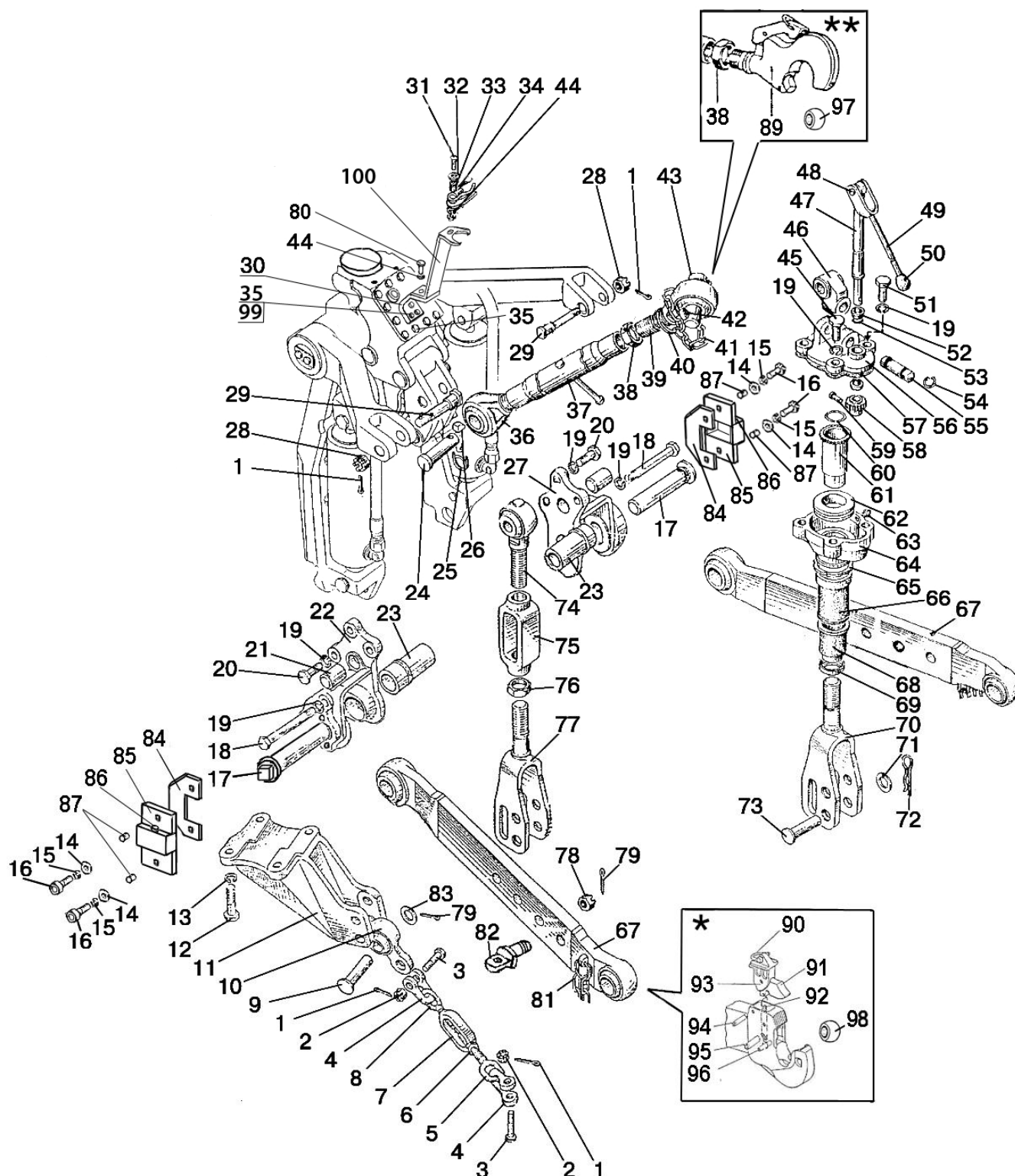


Fig. 46.2. Lift linkage

Group 46. Remote-control hydraulic system
Subgroup 4605. Lift linkage

Fig.	Pos.	Designation	Q-ty	Description
46.2	90	200030 ³⁾	1	Detent handle
	91	309758 ³⁾	1	Detent latch
	92	308524 ³⁾	1	Spring
	93	309928 ³⁾	1	Dowel 8h18
	94	308520 ³⁾	1	Dowel 10h36
	95	099598 ³⁾	1	Dowel 13h36
	96	099435 ³⁾	1	Dowel 3h32
	97	80-4605691	1	Joint cat. 2 Ø 25,7
	98	80-4605693	1	Joint cat. 2 Ø 28,7
	99	8T OST 37.001.115-75	3	Washer
	100	70-4605240-A-01	1	Bracket
¹⁾ Links with hooks ²⁾ Screw with hook ³⁾ For Walterscheid hook				

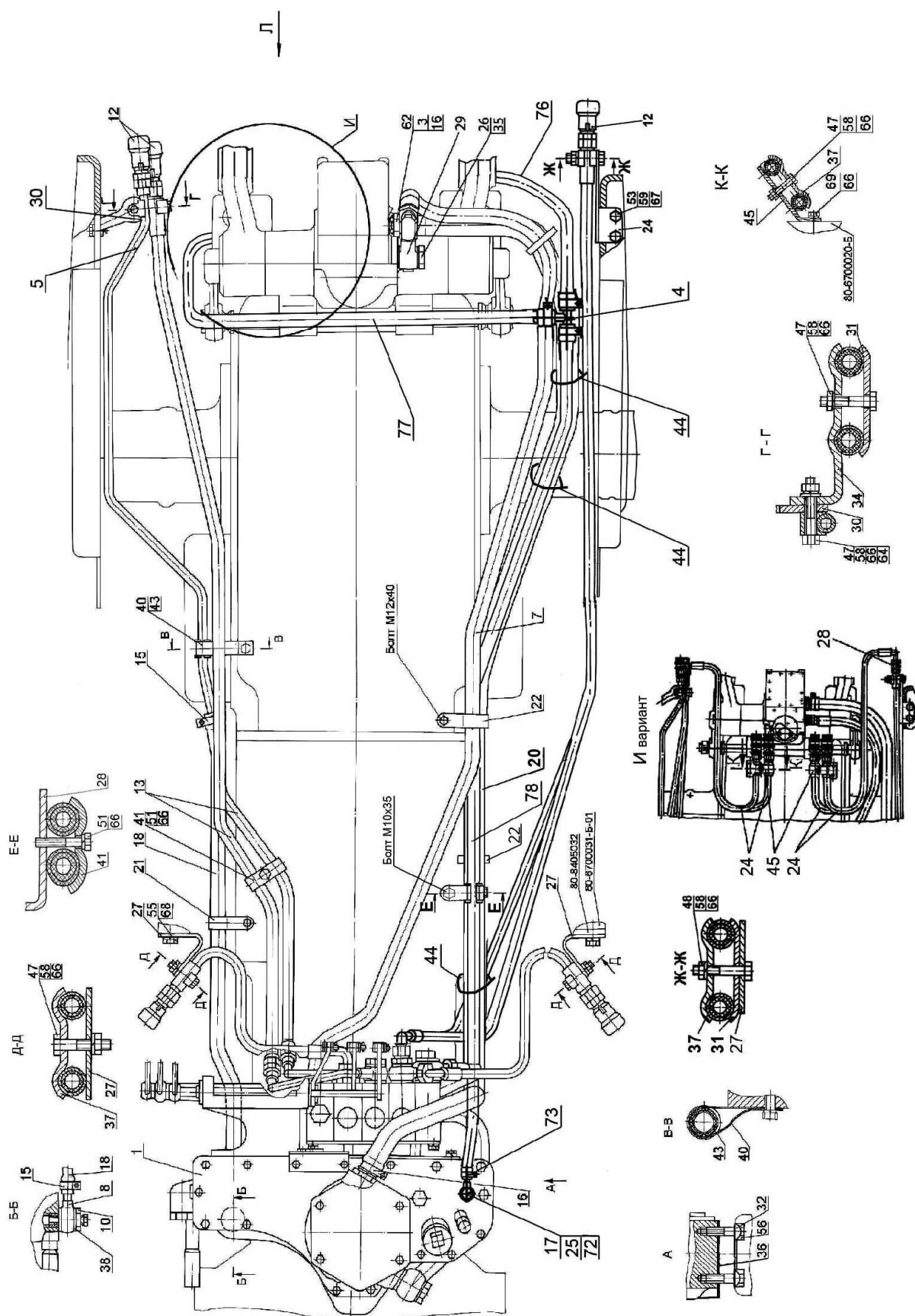


Fig. 46.3. Hydraulic system R1221-4600010

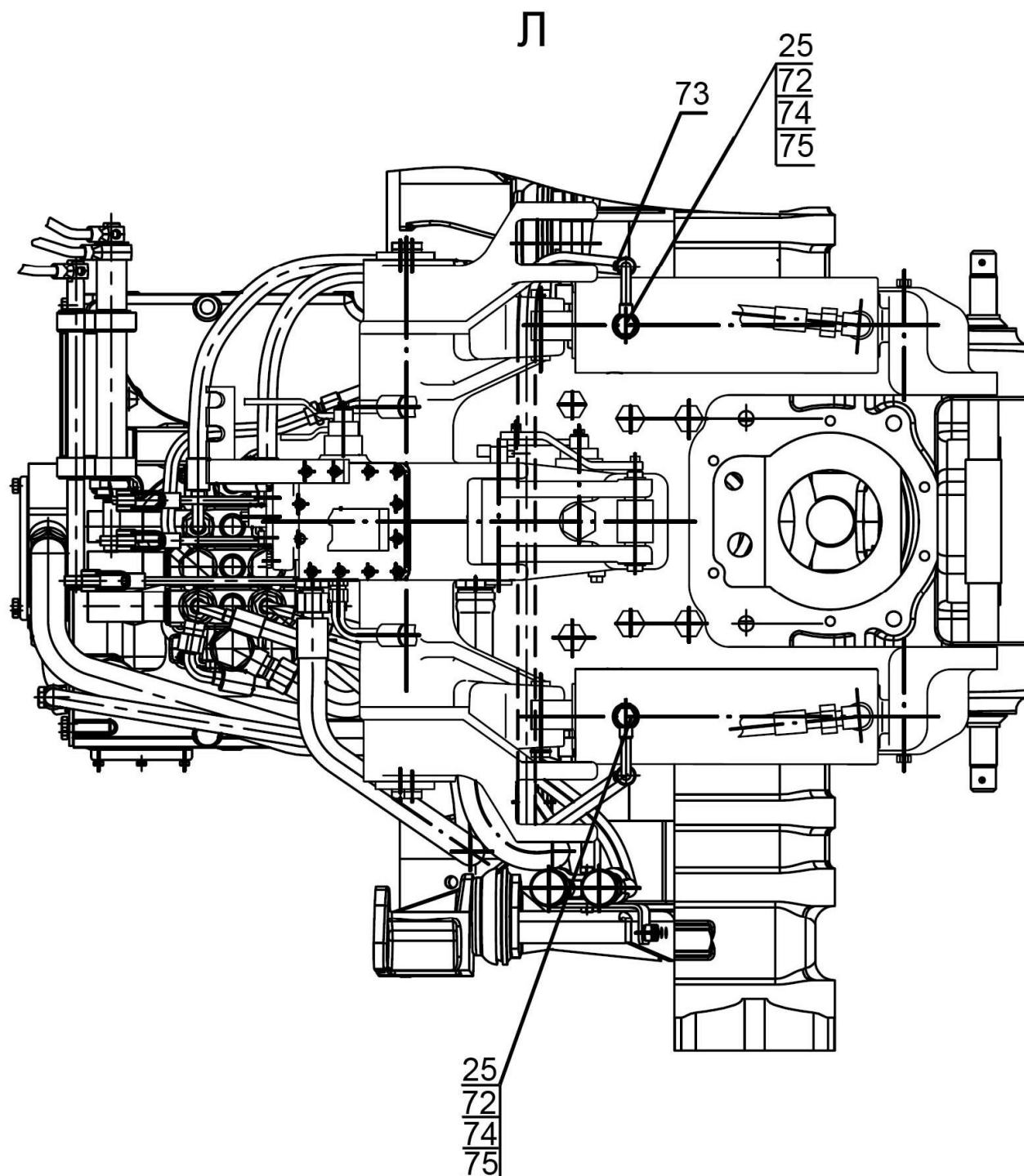


Fig. 46.4 Hydraulic system R1221-4600010

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

Fig.	Pos.No	Designation	Q-ty	Description
46.3		R1221-4600010	1	Hydraulic system
46.4	1	R1221-4600015	1	Hydraulic system housing
	3	85-4607034	1	Fitting
	4	3022-4607120	1	T-piece
	5	K1221-4607125	1	Pipe
	7	952-4607140-04	1	High-pressure hose f16h2 armour.
	8	S80-4607380	1	Pipe
	10	80-4607455	1	Bolt
	12	M036.50B.10 or NR10-3MH0041A0	5	Left housing Clutch
	13	P100-4607140	2	High-pressure hose f10h1 armour.
	15	HS-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	16	HS-31 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	17	F80-3407720	1	Oil pipeline
	18	K1221-4607011	1	Hose
	20	P80-4607012	1	Hose
	21	P80-4607013	1	Clamp
	22	P80-4607013-01	2	Clamp
	25	D18-051	3	Bolt
	26	40-4607037	1	Bolt
	27	M80-4607017	2	Bracket
	28	M80-4607018	1	Bracket
	29	R1221-4607070	1	Fitting
	30	85-4607431	1	Bracket
	31	70-4607156	2	Strip
	32	70-4607168	2	Plate
	34	N50-4607137	1	Bracket
	35	40-4607033-A or RM 24	2	Washer
	36	50-4608049	1	Gasket
	37	40-4607029-A	3	Strip
	38	40-4607038-A or RM 1/2	2	Washer
	40	70-1405112	1	Clamp
	41	70-3407146	1	Strip
	43	70-3506027	1	Bushing
	44	80-3723045-01	4	Collar
	47	M8-6gx40.88.35.019 GOST 7795-70	3	Bolt
	48	M8-6gh45.88.35.019 GOST 7795-70	1	Bolt
	51	M8-6gh35.88.35.019 GOST 7796-70	2	Bolt
	53	M10-6gh25.88.35.019 GOST 7796-70	2	Bolt
	55	M12-6gh30.88.35.019 GOST 7796-70	1	Bolt
	56	M14h1,5-6gh45.88.35.019 GOST 7796-70	4	Bolt
	58		2	Nut M8-6N.6.019 GOST 5915-70
	59		2	Nut M10-6N.6.019 GOST 5915-70
	62	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	64		1	Washer S 8.01.019 GOST 11371-78
	66		6	Washer 8T OST 37.001.115-75
	68		1	Washer 12 OT OST 37.001.115-75
		M036.50B.20 or NR10-4MH0041A0	6	Right housing Male plug
				(is supplied with spare parts and accessories set)

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

Fig.	Pos.No	Designation	Q-ty	Description
46.3 46.4	72	RM14	6	Washer
	73		6	Clamp with worm thread 12-22
	74	822-4801190	2	Oil pipeline
	75	R1221-4607101	2	Fitting
	76	R1221-4607102	1	Hose. Hose pipe10x18,5-1,6 GOST10362-76 L=(220±5) mm
	77	R1221-4607103	1	Hose. Hose pipe10x18,5-1,6 GOST10362-76 L=(850±5) mm
	78	R1221-4607104	1	Hose/ Hose pipe10x18,5-1,6 GOST10362-76 L=(1920±5) mm

Additional configuration (optional)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
46.3 46.4	24	680-4607140-06	4	High-pressure hose f10h1 armour.
	28	N.036.02.002	4	Through fitting
	37	40-4607029-A	2	Strip
	45	85-4607511	2	Bracket
	47		2	Bolt M8-6gh40.88.35.019 GOST 7795-70
	69		4	Bolt M8-6gh20.88.35.019 GOST 7796-70
	58		2	Nut M8-6N.6.019 GOST 5915-70
	66		6	Washer 8T OST 37.001.115-75

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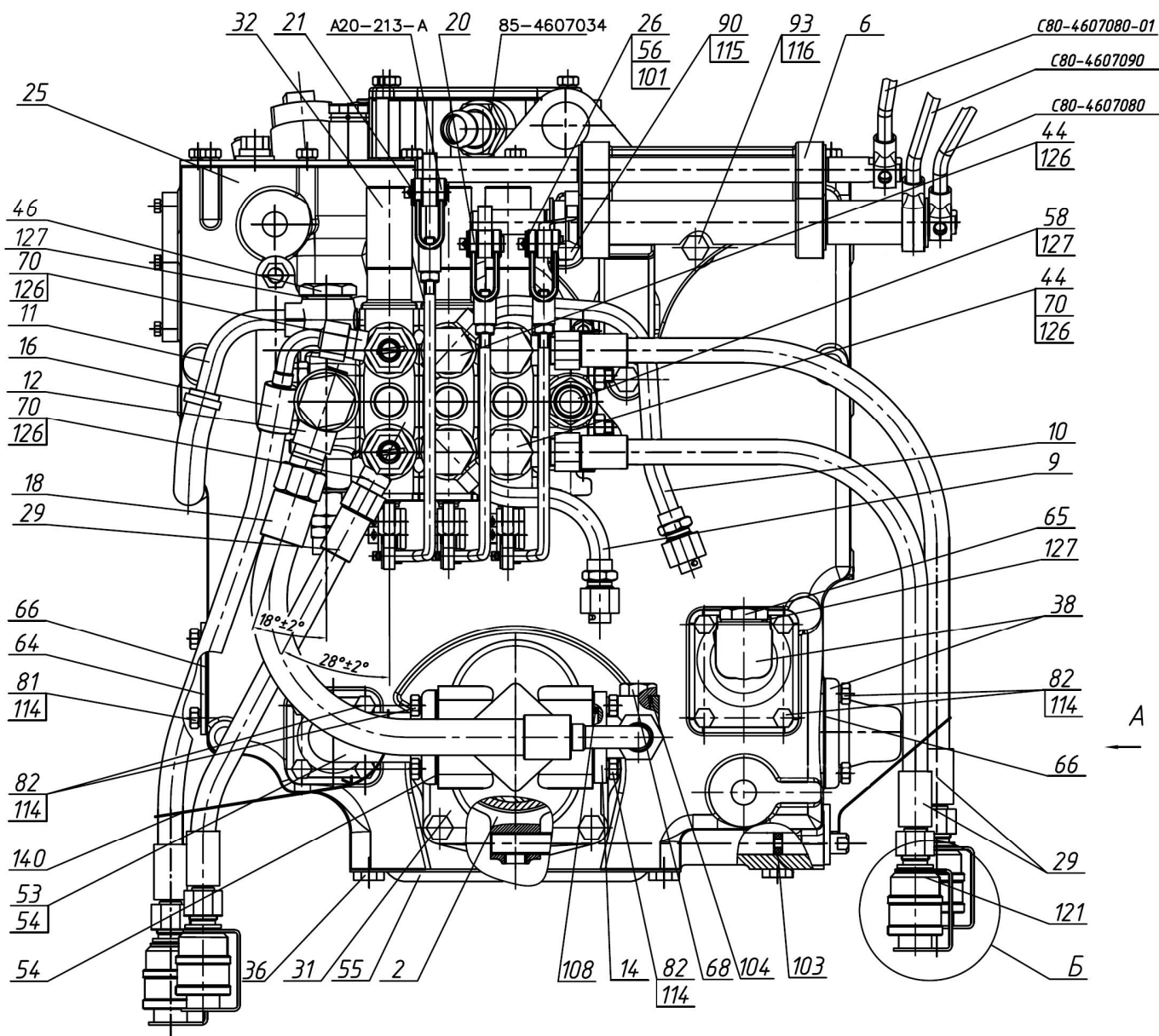


Fig. 46.5 Hydraulic system housing R1221-4600015

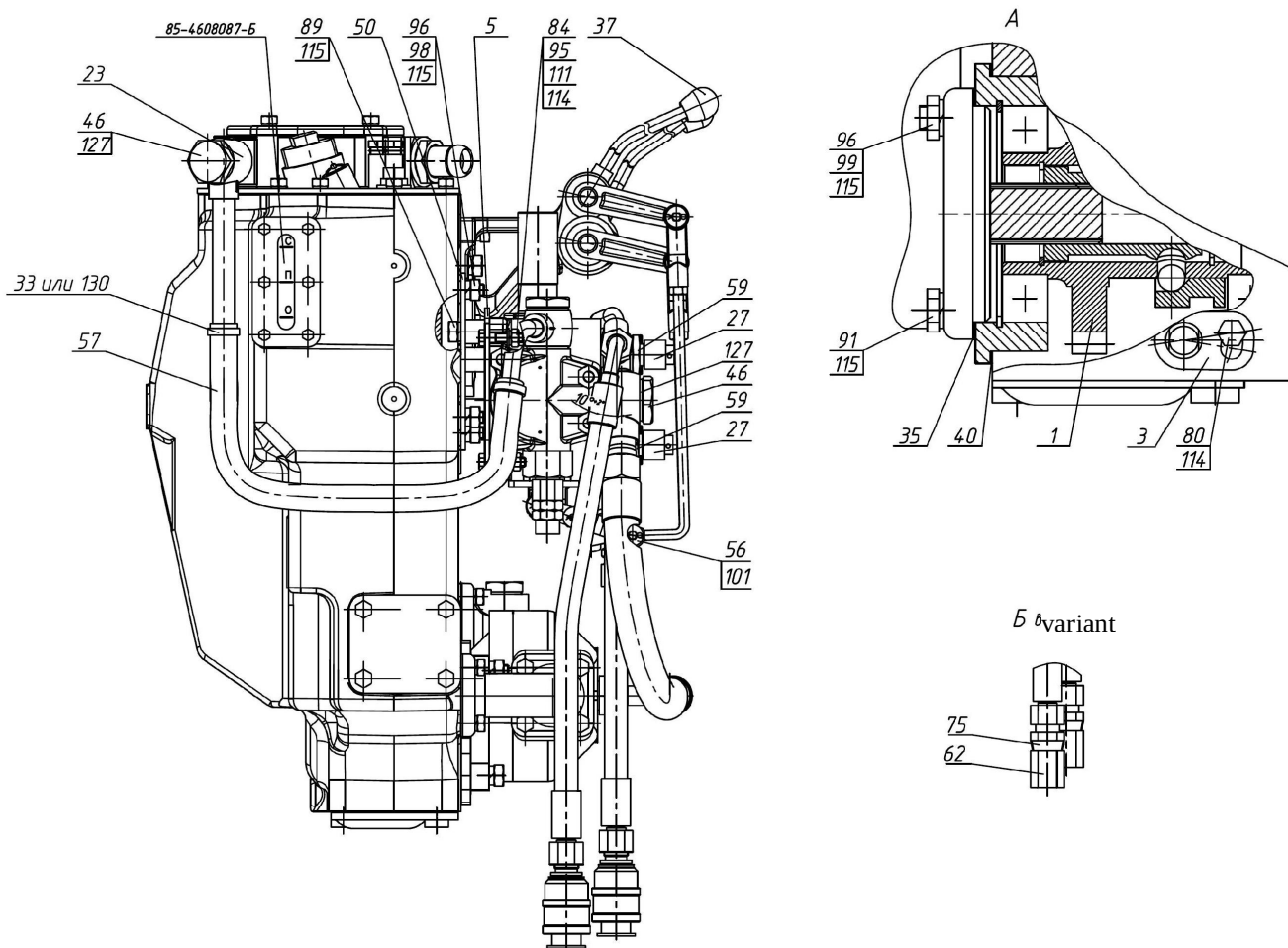


Fig. 46.6 Hydraulic system housing R1221-4600015 (continuation)

Group 46. Hydraulic system
Subgroup 4607. Hydraulic system

Fig.	Pos.	Designation	Q-ty	Description
46.5, 46.6		R1221-4600015		Hydraulic system housing
	1	85-4604010	1	Pump drive
	2	85-4604030-B	1	Yoke
	3	85-4604040-B	1	Shaft
	5	R1221-4607030	1	Bracket
	6	80-4607040-04	1	Bracket
	9	85-4607060-B	1	Pipe
	10	85-4607080-B	1	Pipe
	11	822-4607060	1	Pipe
	12	952-4607080	1	Fitting
	14	D80-4607100-A	1	Connecting pipe
	16	680-4607140-04	1	High-pressure hose f10h1 armour.
	18	952-4607140-09	1	High-pressure hose f16h2 armour.
	20	R1221-4607260	2	Rod
	21	R1221-4607260-01	1	Rod
	23	S80-4607375	1	Pipe
	25	85-4608010	1	Hydraulic system housing
	26	A61-030-A1	3	Pin
	27	N.036.12.010	2	Blind plug (temporary)
	29	PN.036.83.040	3	High-pressure hose f10h1 armour.
	31	NSH 32UKF-3 or NSH 32D-3 or NSH 32UMZH-3 or NSH 32SM-3 or NSH 32UV-3 or NSH 32M-3 09 "MASTER"	1	Gear pump NSH32 "standard"
	32	RP70-1221.1	1	Distributor
	32	RP70-1221	1	Distributor
	33	HS-23	2	Clamp (can be substituted for pos.130)
	35	36-1022054-A	1	Gasket
	36	1221-1802091-01	2	Threaded plug (temporary)
	37	70-3401093	3	Lever end
	38	85-3407101	2	Connecting pipe
	40	70-4604037	1	Gasket
	44	40-4607032	4	Clamp bolt
	46	40-4607037	3	Bolt
	50	50-4607032-B	1	Bracket
	53	50-4607096-A	1	Connecting pipe
	54	50-4607097	4	Gasket
	55	50-4607099	1	Cover
	56	70-4607144	6	Washer
	57	S80-4607063	1	Hose
	58	P80-4607016	1	Fitting
	59	952-4607061	2	Fitting
	62	A50-4607302	4	Blind plug
	64	70-4608019	1	Cover
	65	85-4608021	2	Plug
	66	70-4608033	3	Gasket
	68	50-4608027-V	1	Plug
	70	530-4614029	4	Angle piece
	75	N.036.05.002	4	Screw-in fitting
	80	M8-6gh16.88.35.019 GOST 7796-70	1	Bolt
	81	M8-6gh20.88.35.019 GOST 7796-70	4	Bolt
	82	M8-6gh25.88.35.019 GOST 7796-70	20	Bolt
	84	M8-6gh35.88.35.019 GOST 7796-70	6	Bolt
	89	M10-6gh20.88.35.019 GOST 7796-70	3	Bolt

Group 46. Hydraulic system
Subgroup 4607. Hydraulic system

Fig.	Pos.	Designation	Q-ty	Description
46.5 46.6	90		1	Bolt M10-6gh30.88.35.019 GOST 7796-70
	91		2	Bolt M10-6gh40.88.35.019 GOST 7796-70
	93		2	Bolt M12-6gh35.88.35.019 GOST 7796-70
	95		4	Nut M8-6N.6.019 GOST 5915-70
	96		5	Nut M10-6N.6.019 GOST 5915-70
	98		3	Stud M10-3r/6gh20.66.019 GOST 22034-76
	99		2	Stud M10-3r/6gh35.66.019 GOST 22034-76
	101		6	Split pin 3,2h18.019 GOST 397-79
	103		1	Ring 013-017-25-1-4 GOST 18829-73/GOST 9833-73
	104		1	Ring 017-022-30-1-4 GOST 18829-73/GOST 9833-73
	108		1	Ring 035-040-30-1-4 GOST 18829-73/GOST 9833-73
	111		4	Washer S.8.01.019 GOST 11371-78
	114		31	Washer 8T OST 37.001.115-75
	115		11	Washer10 OT OST 37.001.115-75
	116		2	Washer12 OT OST 37.001.115-75
	121	M036.50B.10	4	Left housing
		NR10-3MH0041A0, Germany or Du10 (LYAKSH.05.4.01.00.000), Republic of Belarus or CPV 0816/20F TVZ		Clutch
	126	RM1/2	12	Washer
	127	RM24	7	Washer
	130	NORMA TORRO 16-27/971 or "NORMA" TORRO 16-25/9-C6W	2	Clamp with worm thread 16-27(can be substituted for pos.33)
	140		500	Wire 1,0-O-S GOST 3282-74L=(250h2) mm



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

Fig.	Pos.No	Designation	Q-ty	Description
46.7		E1221-4600010	1	Hydraulic system
	1	E1221-4600015	1	Hydraulic system housing
	3	K1221-4607125	1	Pipe
	10	680-4607140-02	2	High-pressure hose f10h1 armour.
	11	680-4607140-15	2	High-pressure hose f10h1 armour.
	12	100-4607140	1	High-pressure hose F12,5h2 armour.
	15	P100-4607140	1	High-pressure hose f10h1 armour.
	16	P100-4607140-01	1	High-pressure hose f10h1 armour.
	18	S80-4607380	1	Pipe
	20	M036.50B.10 or NR10-3MH0041AO	5	Left housing Clutch
	21	HS-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	24	E1221-4607111	1	T-piece
	25	E1221-4607332	1	Bolt
	26	K1221-4607011	1	Hose
	27	P80-4607013	3	Clamp
	28	M80-4607014	1	Bracket
	29	M80-4607017	1	Bracket
	32	1522-3514033	2	Angle piece
	33	N50-4607137	1	Bracket
	34	85-4607431	1	Bracket
	35	70-1405112	1	Clamp
	36	70-3407146	2	Strip
	38	70-3506027	1	Bushing
	39	70-4607156	2	Strip
	40	70-4607168	2	Plate
	41	M80-4607018	1	Bracket
	42	70-1405089	2	Screw-in fitting
	44	A50-4607302	5	Blind plug
	46	50-4608049	1	Gasket
	48	40-4607032	1	Clamp bolt
	49	40-4607029-A	2	Strip
	52	N.036.05.002	5	Screw-in fitting
	53	530-4614029	1	Angle piece
	55	M8-6gh40.88.35.019 GOST 7795-70	2	Bolt
	56	M8-6gh45.88.35.019 GOST 7795-70	1	Bolt
	60	M8-6gh30.88.35.019 GOST 7796-70	2	Bolt
	61	M8-6gh35.88.35.019 GOST 7796-70	3	Bolt
	62	M10-6gh25.88.35.019 GOST 7796-70	2	Bolt
	64	M12-6gh30.88.35.019 GOST 7796-70	1	Bolt
	65	M14h1,5-6gh45.88.35.019 GOST 7796-70	4	Bolt
	66	M8-6N.6.019 GOST 5915-70	5	Nut
	67	M10-6N.6.019 GOST 5915-70	2	Nut
	68		1	Washer S 8.01.019 GOST 6958-78
	72	017-022-30-1-4 GOST 18829-73/9833-73	2	Ring
	75		8	Washer 8T OST 37.001.115-75
	76		2	Washer 10 OT OST 37.001.115-75
	77		1	Washer 12 OT OST 37.001.115-75
	78	KG 1/4". A12.019 TU 23.1.506-91	1	Plug
	82	4600.20	3	Washer RM1/2
		M036.50B.20 or NR10-4MH0041AO	6	Right housing Male plug
				(is supplied with spare parts and accessories set)

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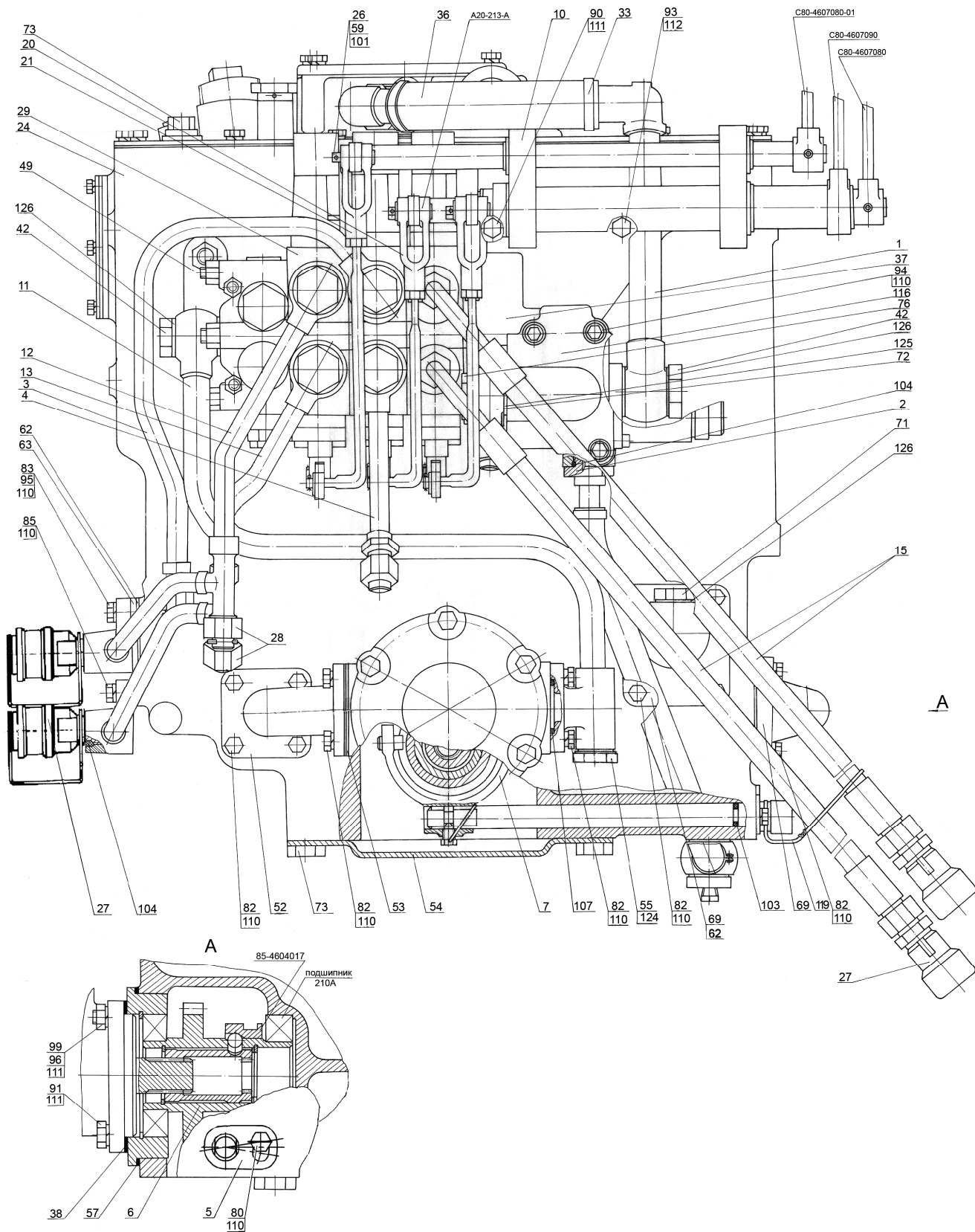


Fig. 46.8 Hydraulic system housing E1221-4600015

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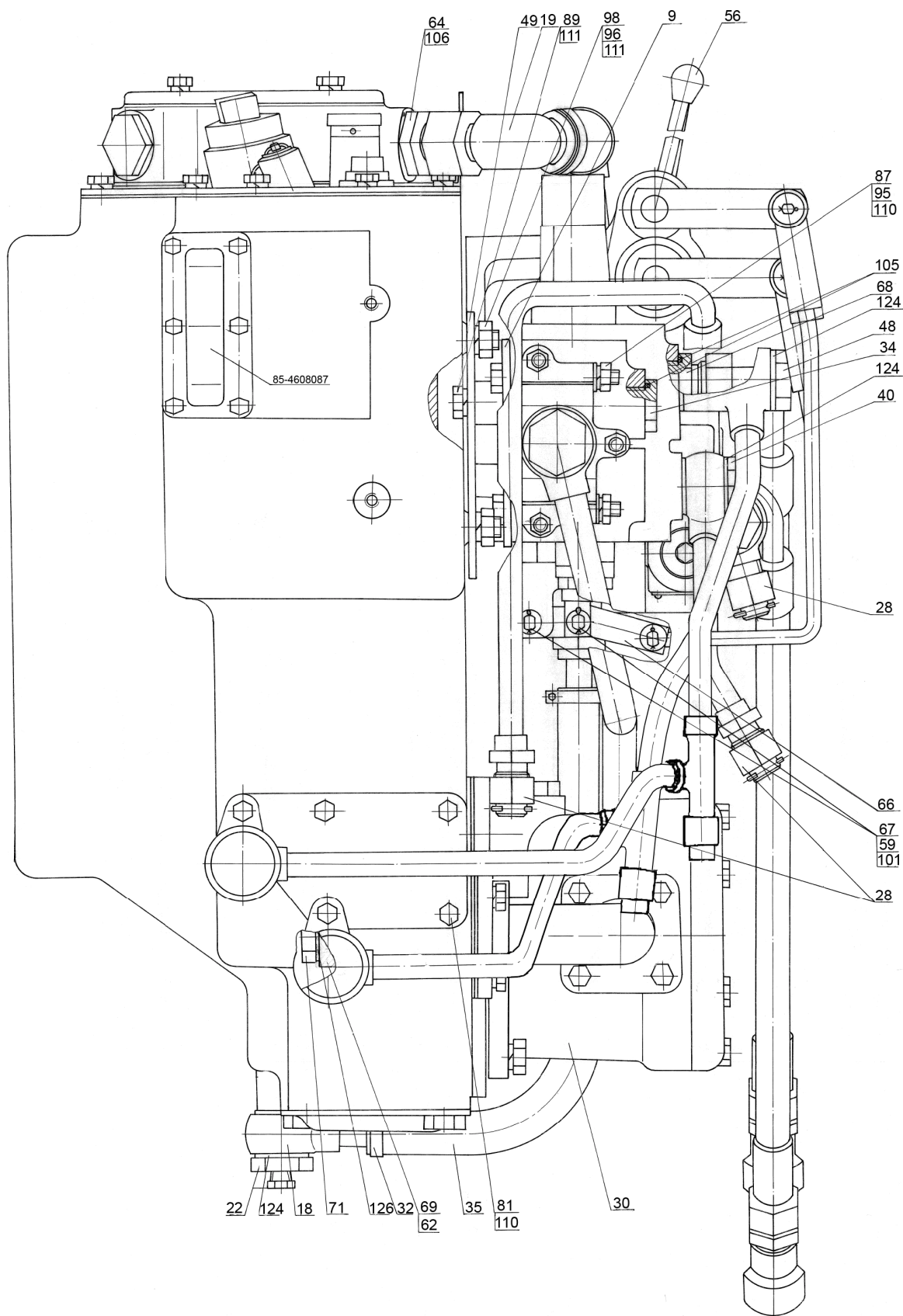


Fig. 46.9. Hydraulic system housing E1221-4600015

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

Fig.	Pos.No	Designation	Q-ty	Description
46.8 46.9		E1221-4600015	1	Hydraulic system housing
	1	E1021-4607010	1	Pipe
	2	E1021-4607020	1	Pipe
	3	E1021-4607165	1	Pipe
	4	E1021-4607170	1	Pipe
	5	85-4604040-B	1	Shaft
	6	85-4604010	1	Pump drive
	7	85-4604030	1	Yoke
	9	S80-4607030	1	Bracket
	10	80-4607040-04	1	Bracket
	11	S80-4607075-G	1	Pipe
	12	S85-4607025	1	Pipe
	13	S85-4607045	1	Pipe
	15	680-4607140-04	2	High-pressure hose f10h1 armour.
	18	S80-4607380	1	Pipe
	19	680-4607510	1	Connecting pipe
	20	S80-4607260	2	Rod
	21	S80-4607260-01	1	Rod
	22	80-4607455	1	Bolt
	24	85-4608010	1	Hydraulic system housing
	26	A61-030-A1	3	Pin
	27	M036.50B.10 or NR10-3MH0041A0	4	Left housing Clutch
	28	N.036.12.010	5	Blind plug
	29	RS-213 Mita	1	Distributor
	32	HS-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	33	HS-31 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	34	E1021-4607031	1	Plug
	35	E1021-4607063	1	Hose. Hose pipe 14h23-1,6 GOST 10362-76 L=(370± 5)mm
	36	E1021-4607064-B	1	Hose. Hose pipe 25h35-1,6 GOST 10362-76 L=(180± 5)mm
	37	952-4607312	1	Cover
	38	36-1022054-A	1	Gasket
	40	40-4607032	4	Clamp bolt
	42	40-4607037	2	Bolt
	48	50-4607031	1	Bolt
	49	50-4607032-B	1	Bracket
	52	50-4607096-A	1	Connecting pipe
	53	50-4607097	4	Gasket
	54	50-4607099	1	Cover
	55	70-4607163	1	Plug
	56	70-3401093	3	Lever end
	57	70-4604037	1	Gasket
	59	70-4607144	12	Washer
	62	70-4608033	3	Gasket
	63	80-4608019-01	1	Cover
	64	S80-4607034	1	Fitting
	66	S80-4607086	3	Lever

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

Fig.	Pos.No	Designation	Q-ty	Description
46.8	67	S80-4607088	6	Pin
	68	S80-4607204	2	Fitting
46.9	69	85-3407101	2	Connecting pipe
	71	85-4608021	2	Plug
	72	E1221-4607029	1	Angle piece
	73	1221-1802091	3	Threaded plug
	76	1522-4607011-A	1	Bolt
	80		1	Bolt M8-6gh16.88.35.019 GOST 7796-70
	81		3	Bolt M8-6gh20.88.35.019 GOST 7796-70
	82		20	Bolt M8-6gh25.88.35.019 GOST 7796-70
	83		1	Bolt M8-6gh30.88.35.019 GOST 7796-70
	85		1	Bolt M8-6gh35.88.35.019 GOST 7796-70
	87		4	Bolt M8-6gh65.88.35.019 GOST 7796-70
	89		3	Bolt M10-6gh20.88.35.019 GOST 7796-70
	90		1	Bolt M10-6gh30.88.35.019 GOST 7796-70
	91		2	Bolt M10-6gh40.88.35.019 GOST 7796-70
	93		2	Bolt M12-6gh35.88.35.019 GOST 7796-70
	94		3	Screw M8-6gh50.56.019 GOST 11738-84
	95		5	Nut M8-6N.6.019 GOST 5915-70
	96		5	Nut M10-6N.6.019 GOST 5915-70
	98		3	Stud M10 3r/6gh20.66.019 GOST 22034-76
	99		2	Stud M10 3r/6gh35.66.019 GOST 22034-76
	101		12	Split pin 3,2h18.019 GOST 397-79
	103		1	Ring 013-017-25-1-4 GOST 18829-73/GOST 9833-73
	104		3	Ring 017-022-30-1-4 GOST 18829-73/GOST 9833-73
	105		3	Ring 024-028-25-1-4 GOST 18829-73/GOST 9833-73
	106		1	Ring 027-032-30-1-4 GOST 18829-73/GOST 9833-73
	107		1	Ring 035-040-30-1-4 GOST 18829-73/GOST 9833-73
	110		33	Washer 8T OST 37.001.115-75
	111		12	Washer 10 OT OST 37.001.115-75
	112		2	Washer 12 OT OST 37.001.115-75
	116	EHR5-OC 0521222006	1	Adjusting valve
	124	RM 1/2	11	Washer
	125	RM 22	2	Washer
	126	RM 24	6	Washer

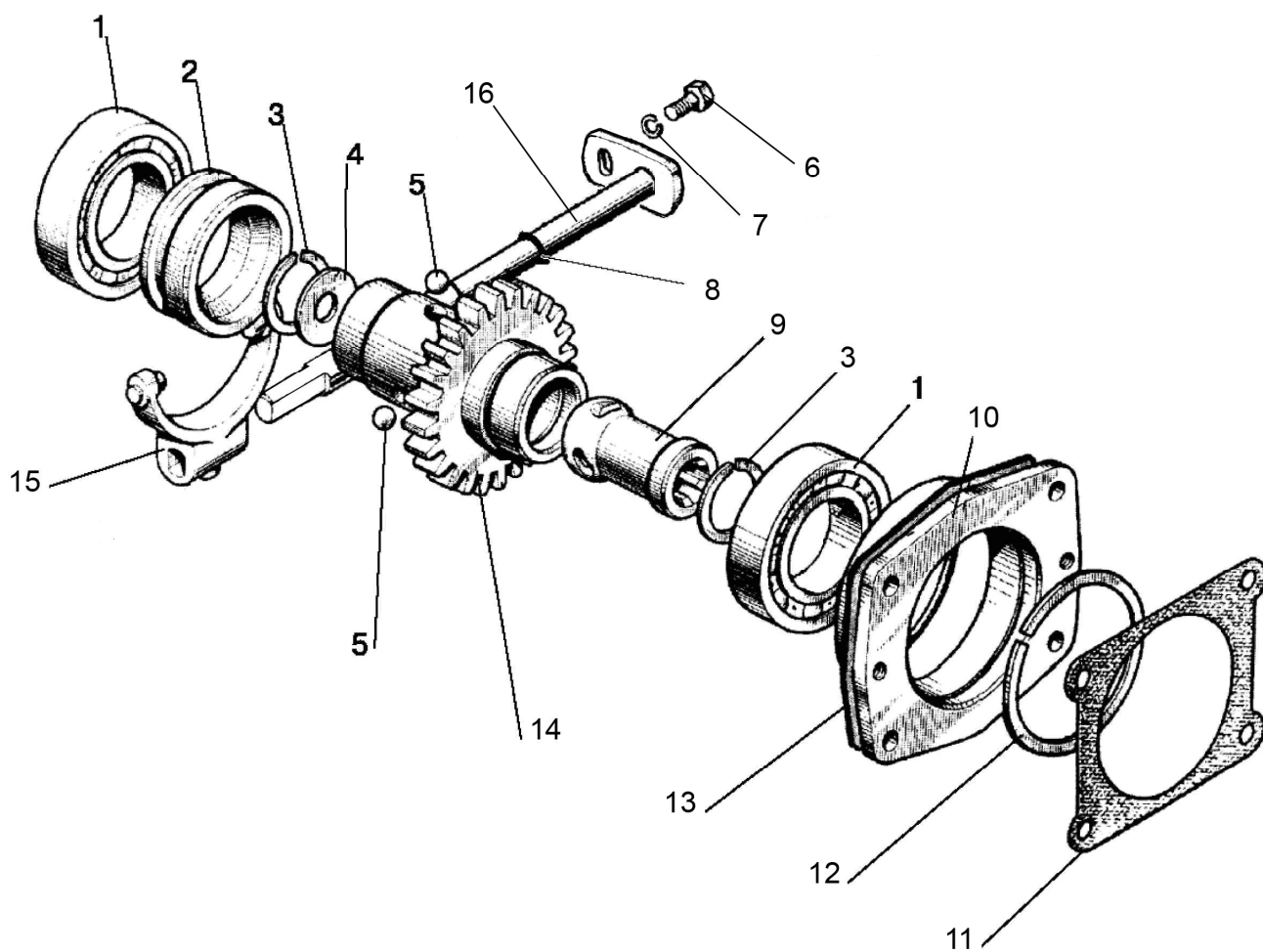


Fig.46.10 Pump drive

BELARUS**1221.5**

Group 46. Hydraulic system
Subgroup 4604. Pump drive

Fig.	Pos.No	Designation	Q-ty	Description
46.10		85-4604010	1	Pump drive (1-5, 11-14, 16-24)
	1		2	Bearing 210 AUSH1 GOST8338-75
	2	85-4604017	1	Clutch
	3		2	Ring S40 GOST 13943-86
	4	70-1108179	1	Washer
	5		3	Ball 11,112-100 GOST 3722-81
	6		1	Bolt M8-6gh16.88.35.019 GOST 7796-70
	7		1	Washer 8T OST 37.001.115-75
	8		1	Ring 013-017-25-1-4 GOST 18829-73/9833-73
	9	85-4604012	1	Bushing
	10	50-4604036-A	1	Body
	11	36-1022054-A	1	Gasket
	12		1	Ring 2S90 GOST 13941-86
	13	70-4604037	1	Gasket
	14	85-4604011	1	Gear
	15	85-4604030	1	Yoke
	16	85-4604040-B	1	Shaft

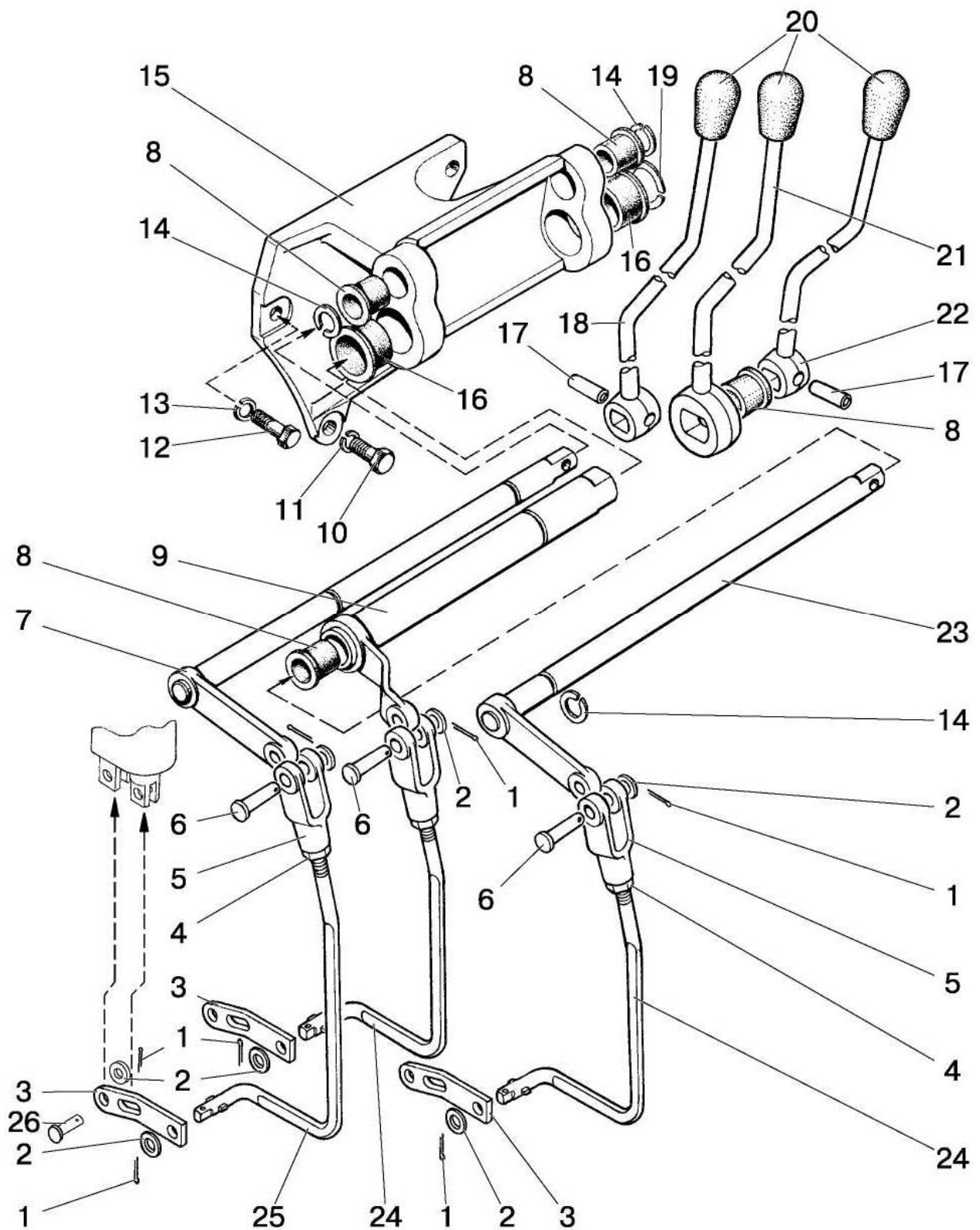


Fig. 46.11 Hydraulic distributor control (RP70, RS 213 Mita)

Group 46. Remote-control hydraulic system
Subgroup 4607. Hydraulic distributor control (RP70, RS 213 Mita)

Fig.	Pos.No	Assembly unit or part number	Q-ty		Description
			RP70	RS	
46.11	1		6	12	Split pin 3,2h18.019 GOST 397-79
	2	70-4607144	6	12	Washer
	3	C80-4607086	-	3	Lever
	4		3	3	Nut M8-6N.6.019 GOST 5915-70
	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		2	2	Bolt M12-6gh30.88.35.019 GOST 7796-70
	11		2	2	Washer 12 OT OST 37.001.115-75
	12		1	1	Bolt M10-6gh35.88.35.019 GOST 7796-70
	13		1	1	Washer 10 OT OST 37.001.115-75
	14		3	3	Ring S18 GOST 13940-86
	15	85-4607017	1	1	Bracket
	16	50-4607079-A1	2	2	Bushing
	17	A.8h30.65G Chem.phosph.oil.GOST 14229 93	2	2	Dowel
	18	C80-4607080-01	1	1	Lever
	19	S32 GOST 13940-86	1	1	Ring
	20	70-3401093	3	3	Lever end
	21	C80-4607090	1	1	Lever
	22	C80-4607080	1	1	Lever
	23	80-4607220	1	1	Shaft
	24	C80-4607261	-	2	Rod
		R1221-4607261	2	-	Rod
	25	C80-4607261-01	-	1	Rod
		R1221-46007261-01	1	-	Rod
	26	C80-4607088	-	6	Pin

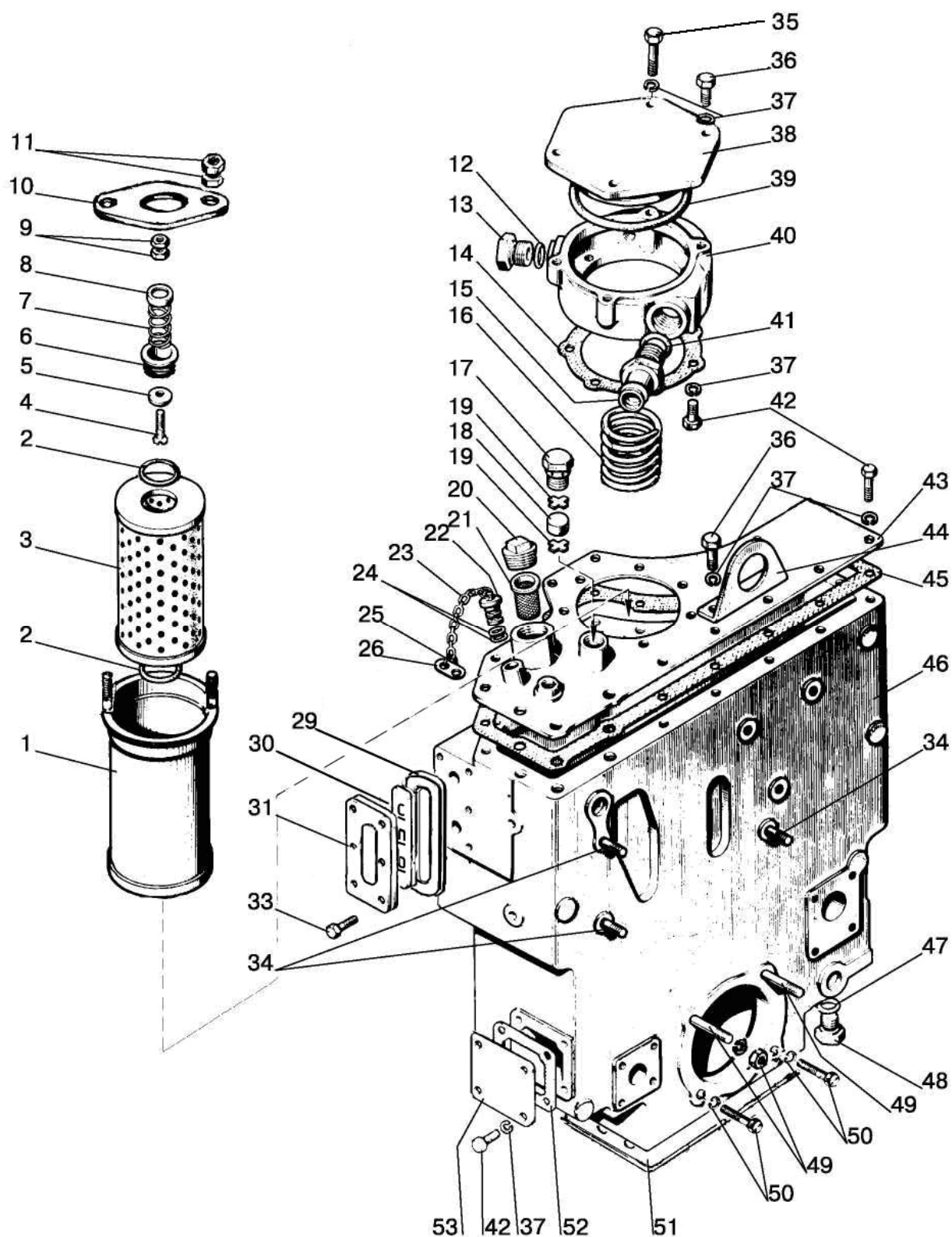


Fig. 46.12 Hydraulic system housing and filter

Group 46. Hydraulic system
Subgroup 4607. Hydraulic system housing and filter

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
46.12		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	042-050-46-2-4 GOST 18829-73/9833-73	2	Ring
	3	EFOM635-1 or FEG3-25*	1	Filtering element Regotmas 635-1
	4	V.M6-6gh40.58.019 GOST 17475-80	1	Screw
	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	M6-6N.6.019 GOST 5915-70	2	Nut
	10	A28.04.00.001	1	Limiter
	11	M6-6N.6.019 GOST 5915-70	4	Nut
	12	RM 24 or 40-4607033-A	1	Washer
	13	85-4608021	1	Plug
	14	85-4608089	1	Gasket
	15	85-4607034	1	Fitting
	16	85-4608057	1	Spring
	17	50-4608059	1	Breather plug
	18	50-4608063	1	Filter
	19	50-4608062	2	Breather washer
	20	KG 11/4"	1	Plug
	21	A61-C06-A3	1	Filter
	22	85-4608091	1	Valve
	23	50-1002450	1	Chain
	24	011-015-25-2-4 GOST 18829-73/9833-73	2	Ring
	25	36-1101067	2	Ring
	26	50-3407069	1	Cotter key
	29	85-4608086-B	1	Sealant
	30	85-4608087-B	1	Pointer
	31	85-4608088-B	1	Housing
	33	Bolt M6h20 DIN EN 1665-98	6	Bolt
	34	M10 3r/6gh20.66.019 GOST 22034-76	3	Stud
	35	M8-6gh80.88.35.019 GOST 7795-70	1	Bolt
	36	M8-6gh25.88.35.019 GOST 7796-70	5	Bolt
	37	8T OST 37.001.115-75	30	Washer
	38	85-4608022	1	Cover
	39	130-135-30-1-4 GOST 18829-73/9833-73	1	Ring
	40	85-4608018	1	Body
	41	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	42	M8-6gh20.88.35.019 GOST 7796-70	23	Bolt
	43	85-4608025	1	Cover
	44	80-4608073	1	Bracket
	45	85-4608031-B	1	Gasket
	46	85-4608016-A	1	Hydraulic system housing
	47	RM 1/2 or 40-4607038-A	1	Washer
	48	70-4607163	1	Plug
	49	M10 3r/6gh35.66.019 GOST 22034-76	2	Stud
		M10-6N.6.019 GOST 5915-70	2	Nut
	50	M10-6gh40.88.35.019 GOST 7796-70	2	Bolt
		10 OT OST 37.001.115-75	4	Washer
	51	50-4608049	1	Gasket
	52	70-4608033	1	Gasket
	53	70-4608019	1	Cover

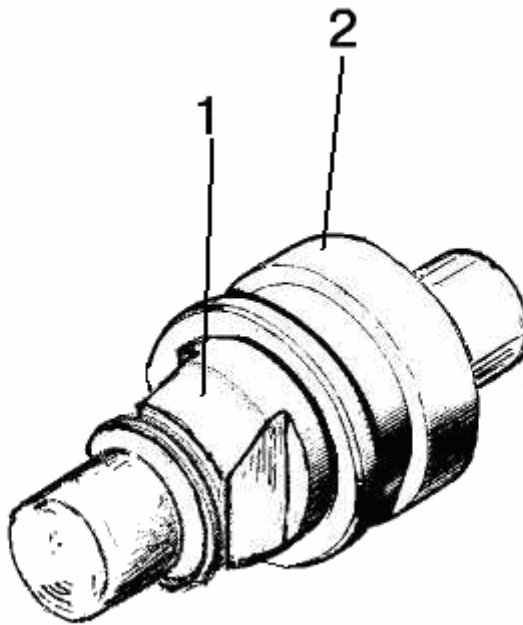


Fig. 46.13 Quick coupling

Subgroup M036.50B. Quick coupling

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
46.13	1	M036.50B.20 or NR10-4MH0041A0	1	Right housing Male plug
	2	M036.50B.10 or NR10-3MH0041A0	1	Left housing Clutch

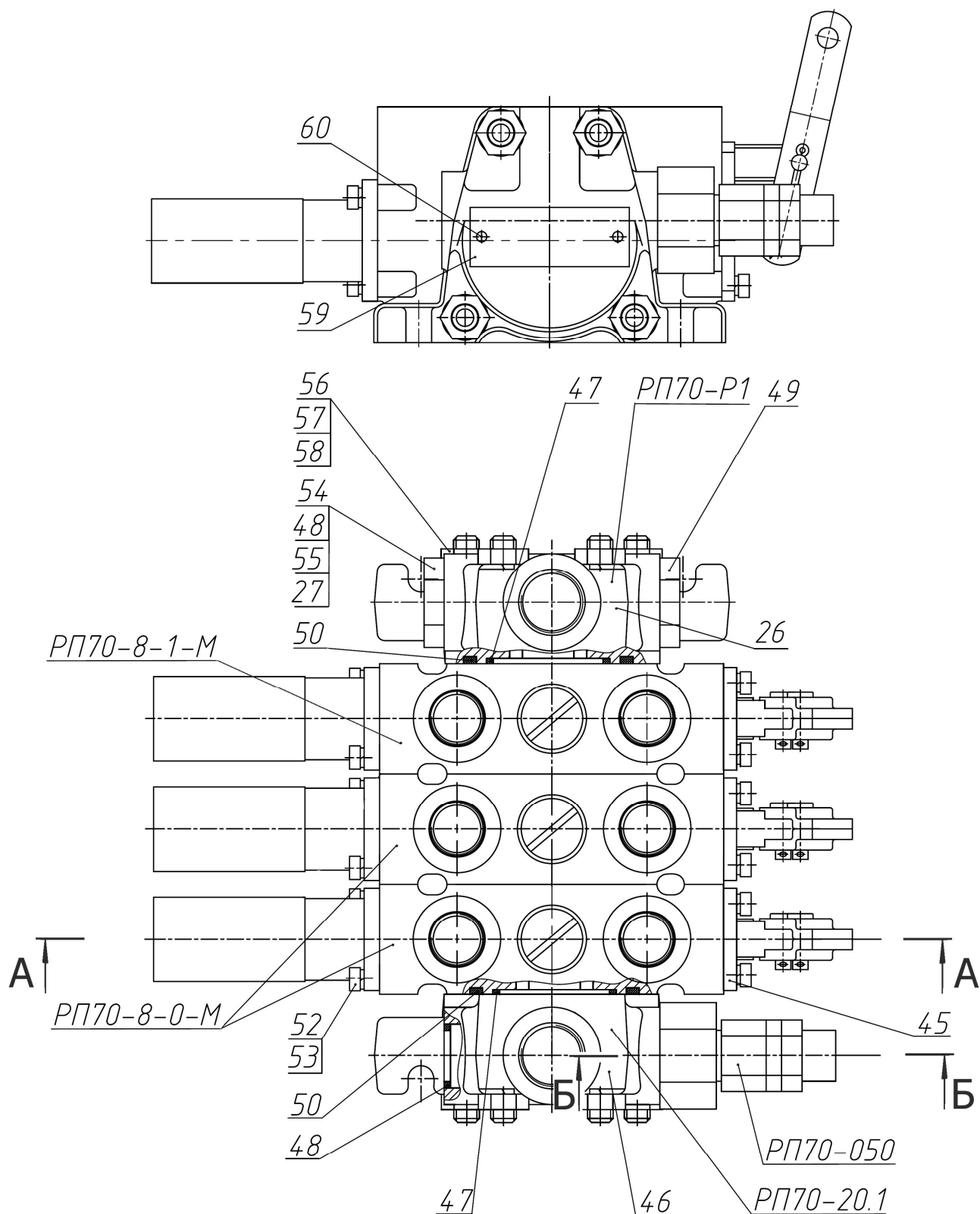


Fig. 46.14. Hydraulic distributor RP70-1221.1

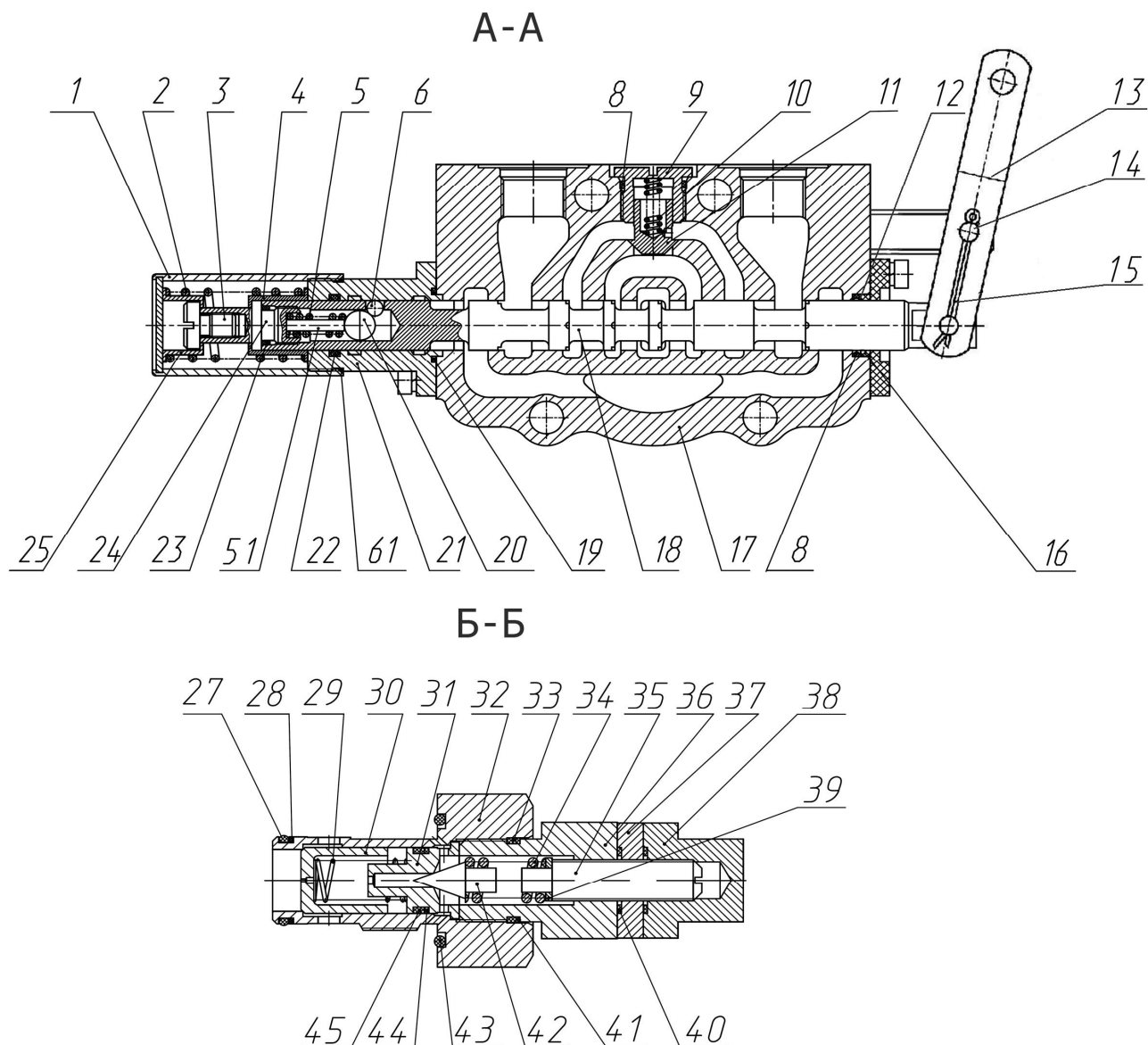


Fig. 46.15. Hydraulic distributor RP70 (continuation)

Group 46. Remote-control hydraulic system
Subgroup RP70. Hydraulic distributor RP70

Fig.	Pos.	Designation	Q-ty	Description
46.14, 46.15.		RP70-888-001-MMM-20R1 ¹⁾	1	Hydraulic distributor
		RP70-8-0-M	2	Distributor section (1-25, 45, 52, 53)
		RP70-8-1-M	1	Distributor section (1-25, 45, 52, 53)
		RP70-R1 ¹⁾	1	Cover (RP70-080, 26, 47-50)
		RP70-20.1	1	Cover (RP70-050, 46)
		RP70-050	1	Safety valve (27-44)
		RP70-080	1	Blind plug (27, 48, 54, 55)
	1	RP70-090 or 8PM 170.027	1	Pipe
	2	RP-70-034	1	Spring
	3	RP70-026	1	Screw
	4	RP70-018-01	1	Disc
	5	BU-8/1.01.010 A-01	1	Spring
	6	5,556-100 GOST 3722-81	3	Ball
	8		1	Ring 017-020-19-2-4 GOST 18829-73/GOST 9833-73
	9	RP70-024	1	Plug
	10	RP70-027	1	Spring
	11	RP70-023	1	Latch
	12	RP70-031	1	Ring
	13	RP70-042	2	Strip
	14		2	Pin 6h22 OST 37.001.163-75
	15		3	Split pin 2h50.019 DIN EN ISO 1234:98
	16	RP70-032	1	Ring
	17	RP70-011	1	Housing
	18	RP70-013	1	Slide valve
	19		1	Ring 030-034-25-2-2 GOST 18829-73/GOST 9833-73
	20		1	Ball 9,525-100 GOST 3722-81
	21	RP70-014 RP70-014-02 ³⁾	1	Cage
	22		1	Ring 016-020-25-2-2 GOST 18829-73/GOST9833-73
	23	009-012-19-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	24	RP70-016	1	Threaded sleeve
	25	RP70-018	1	Disc
	26	RP70-012	1	Cover
	27	018-021-19-2-4 GOST18829-73/GOST9833-73	2	Ring
	28	RP70-058	1	Ring
	29	70-4609037	1	Spring
	30	RP70-052-B	1	Valve
	31	RP70-054	1	Seat
	32	RP70-051	1	Housing
	33	016-020-25-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	34	MKPV-16/3F-103	1	Spring
	35	RP70-059	1	Screw
	36	RP70-053	1	Fitting
	37	RP70-076	1	Nut
	38	RP70-057	1	Cap

¹⁾ For distributor RP70-1221.1

³⁾ For distributor section RP70-8-1-M

**Group 46. Remote-control hydraulic system
Subgroup RP70. Hydraulic distributor RP70**

Fig.	Pos.	Designation	Q-ty	Description
46.14 46.15.	39		1	Washer S 6.01.019 GOST 11371-78
	40		3	Ring 013-016-19-2-2 GOST18829-73/GOST9833-73
	41	RP70-058-02	1	Ring
	42	MKPV-16/3F-101	1	Needle
	43		1	Ring 028-032-25-2-2 GOST18829-73/GOST9833-73
	44	RP70-058-01	1	Ring
	45	RP70-074 ¹⁾ or RP70-070 ¹⁾	1	Bracket
	46	RP70-012-01	1	Cover
	47		2	Ring 036-040-25-2-2 GOST 18829-73/GOST 9833-73
	48	Washer RM24	2	Washer
	49	RP70-036	1	Plug
	50	060-066-36-2-2 GOST 18829-73/ GOST9833-73 or 60,00-3,50 SIMRIT 72 NBR 872	2	Ring
	51	RS70-036	1	Limit stop
	52		4	Screw V.M6-6gh12.58.019 GOST 17473-80
	53		4	Washer 6T OST 37.001.115-75
	54	RP70-081	1	Blind plug
	55	RP70-058	1	Ring
	56	RP70-037-02	4	Stud
	57		8	Nut M10-6N.6.019 GOST 5915-70
	58		8	Washer 10 OT OST 37.001.115-75
	59	RP70-038	1	Nameplate
	60		2	Rivet 2h6.01.10kp.05 GOST 10299-80
	61		1	Ring 021-025-25-1-4 GOST 18829-73/GOST 9833-73
¹⁾ For distributor RP70-1221.1				

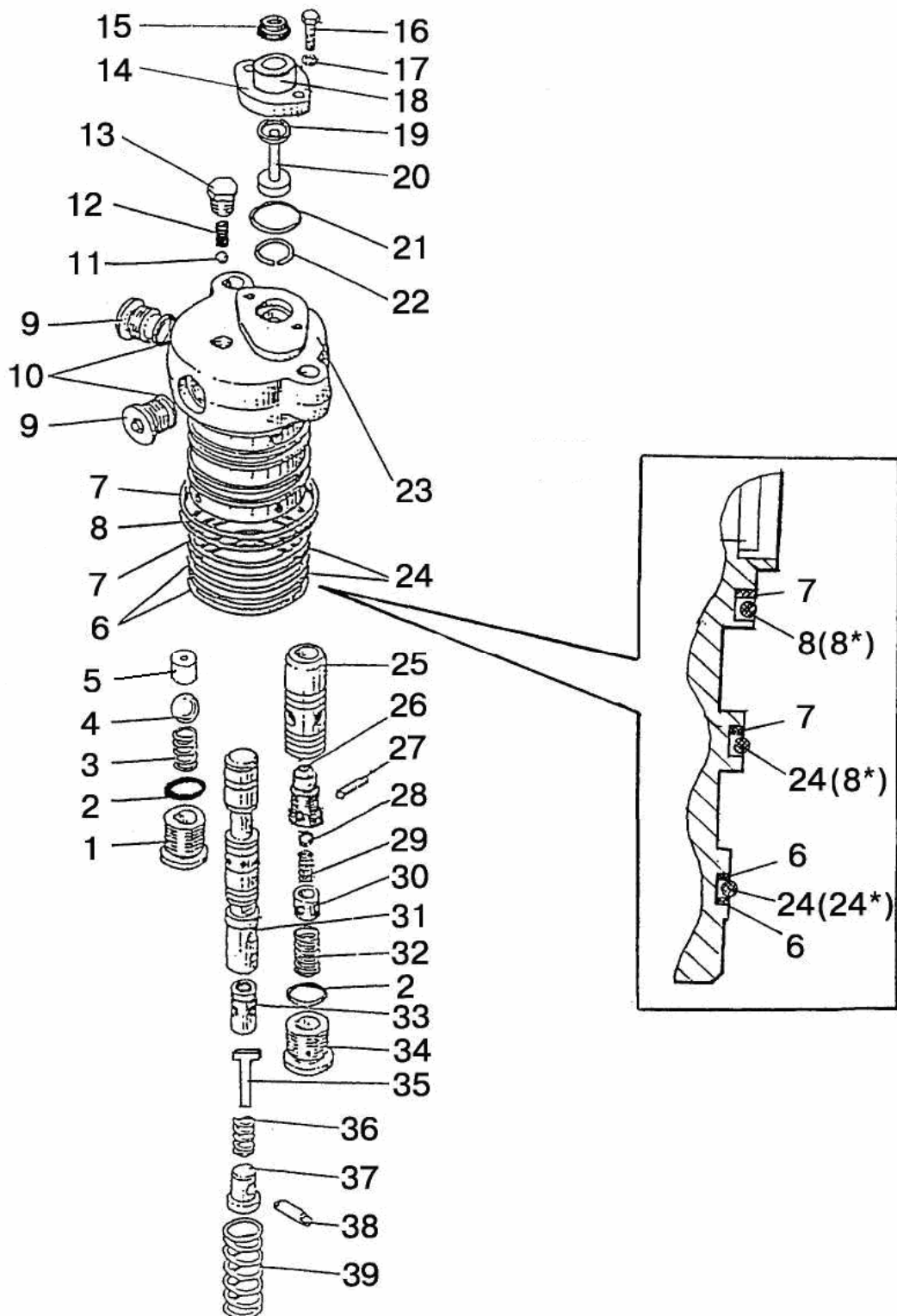


Fig. 46.16. Hydraulic lift distributor

Group 46. Hydraulic system
Subgroup 4634. Hydraulic lift distributor

Fig.	Pos.	Designation	Q-ty	Description
46.16		820-4634010	1	Distributor
		820-4634020A	1	Valve (25-30)
	1	820-4634021	1	Plug
	2	017-020-19-2-6 GOST 18829-73/9833-73	2	Ring
		or 17,00-2,00 SIMRIT 72 NBR 872	2	Ring
	3	A61-072	1	Spring
	4		1	Ball 14,288-60 GOST 3722-81
	5	820-4634017	1	Seat
	6	820-4634025A	2	Ring
	7	820-4634025-A-01	2	Ring
	8	068-072-25-2-6 GOST 18829-73/9833-73	2	Ring
		or 65,00-2,50 SIMRIT 72 NBR 872	2	Ring
	9	820-4634022	2	Plug
	10	013-016-19-2-6 GOST 18829-73/9833-73	2	Ring
		or 13,00-2,00 SIMRIT 72 NBR 872	2	Ring
	11		1	Ball 6,350-100 GOST 3722-81
	12	80-4614058	1	Spring
	13	KG 1/8". A12.019 TU 23.1.506-91	1	Plug
	14	820-4634013-B	1	Cover
	15		1	Wiper seal 2-10 GOST 24811-81
	16	M6-6gh16.88.35.019 GOST 7798-70	2	Bolt
	17		2	Washer 6T OST 37.001.115-75
	18	820-4634039	1	Bushing
	19	010-014-25-2-2 GOST 18829-73/9833-73	1	Ring
	20	820-4634038	1	Pusher
	21	021-024-19-2-6 GOST 18829-73/9833-73	1	Ring
		or 21,00-2,00 SIMRIT 72 NBR 872	1	Ring
	22	820-4634036	1	Locking ring
	23	820-46340111	1	Housing
	24	064-068-25-2-6 GOST 18829-73/9833-73	2	Ring
		or 63,00-2,50 SIMRIT 72 NBR 872	1	Ring
	25	820-4634014	1	Valve
	26	820-4634018-B	1	Seat
	27		1	Dowel 2.3h14 GOST 3128-70
	28	5,556-60 GOST 3722-81	1	Ball
	29	R75-VZVR-082	1	Spring
	30	820-4634033	1	Limit stop
	31	820-4634012	1	Slide valve
	32	820-4634024	1	Spring
	33	820-4634026-B	1	Valve
	34	820-4634019	1	Plug
	35	820-4634037	1	Limit stop
	36	820-4634028	1	Spring
	37	820-4634029	1	Limit stop
	38	820-4634027	1	Dowel
	39	820-4634016	1	Spring

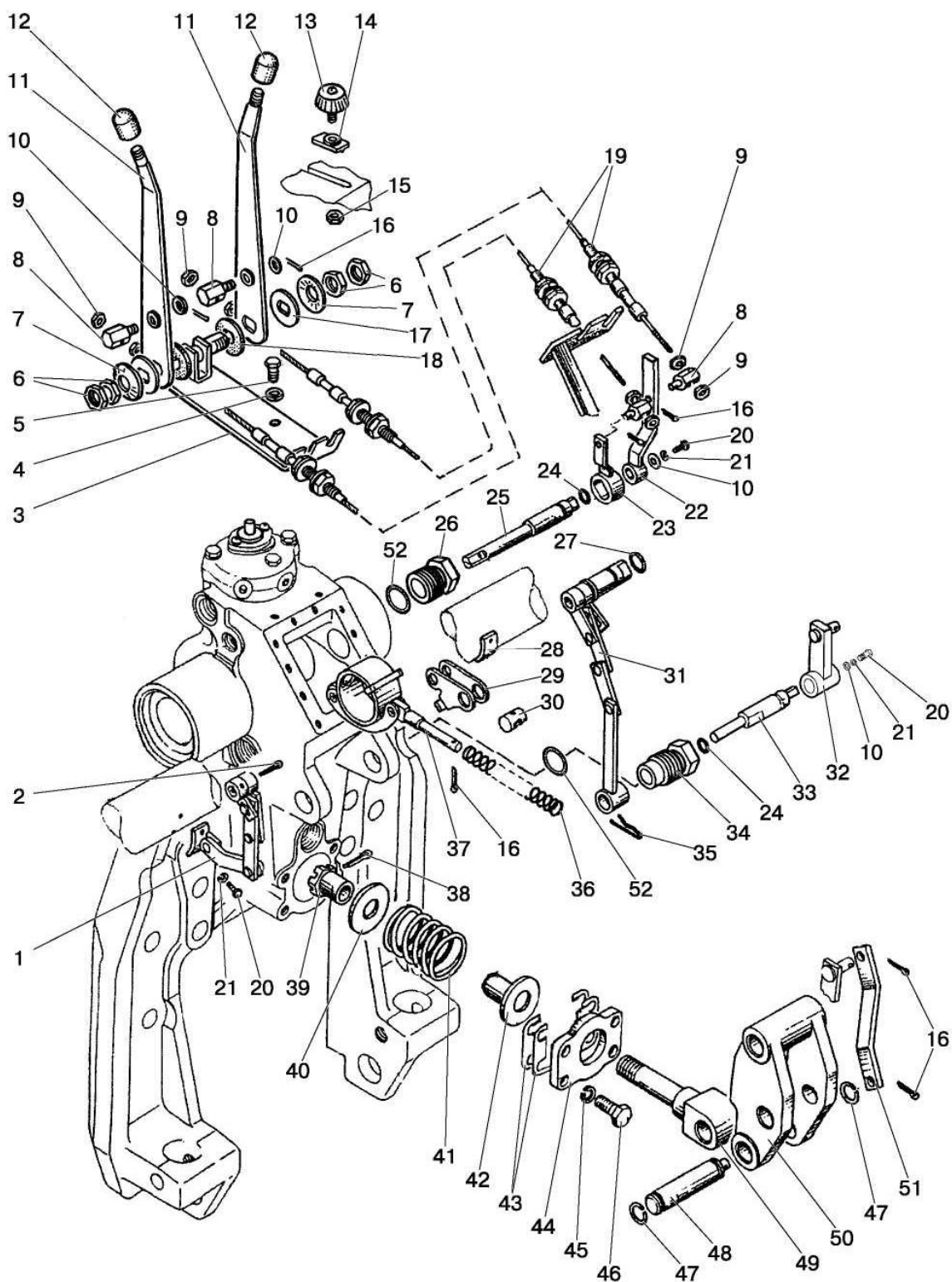


Fig. 46.17 Hydraulic lift control

Group 46. Hydraulic system
Subgroup 4635. Hydraulic lift control

Fig.	Pos.	Designation	Q-ty	Description
46.17		820-4635005	1	Hydraulic lift (3-19;1221-4635010)
		1221-4635010	1	Hydraulic lift (1, 2, 10, 20-52; Fig. 46.22 Pos. 1-37)
		820-4635020-A	1	Power 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	Position link
	2		1	Split pin 3,2h25.019 GOST 397-79
	3	820-4635095-B	1	Bracket
	4		4	Washer 8T OST 37.001.115-75
	5	M8-6gh20.88.35.019 GOST 7796-70	4	Bolt
	6	M14h1,5-6N.6.019 GOST 5915-70	4	Nut
	7	80B-1108347	2	Disc spring
	8	80B-1108317	4	Threaded rivet nut
	9		8	Nut M6-6N.6.019 GOST 5915-70
	10		4	Washer S 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	Limit stop
	15		1	Nut M6-6H.019 TU 23.1.505-91
	16		7	Split pin 3,2h18.019 GOST 397-79
	17	80-1108028	2	Washer
	18	80-1108178	2	Friction washer
	19	100.M4322.00900 or 23.588.1.1.2.00.01-01 or 772-L-TT-75-900 or 400041-075-00900 or 100-4635300	2	Remote control cord
	20	M6-6gh16.88.35.019 GOST 7798-70	6	Bolt
	21		6	Washer 6T OST 37.001.115-75
	22	820-4635080	1	Lever
	23	820-4635075	1	Lever
	24	011-015-25-2-4 GOST 18829-73/9833-73	2	Ring
	25	820-4635034	1	Shaft
	26	820-4635033-B	1	Bushing
	27	019-023-25-2-4 GOST 18829-73/9833-73	1	Ring
	28	820-4635046	1	Clip
	29	820-4635070	1	Lever
	30	820-4635069	1	Detent
	31	820-4635030	1	Power link
	32	820-4635015-B	1	Lever
	33	820-4635016-B	1	Shaft
	34	820-4635032-B	1	Bushing
	35	820-4635049	1	Split pin
	36	820-4635063	1	Spring
	37	820-4635065	1	Bracket
	38		1	Split pin 4h22.019 GOST 397-79
	39	820-4635024	1	Nut
	40	820-4635023	1	Washer
	41	820-4635022	1	Spring
	42	820-4635026-B	1	Bushing

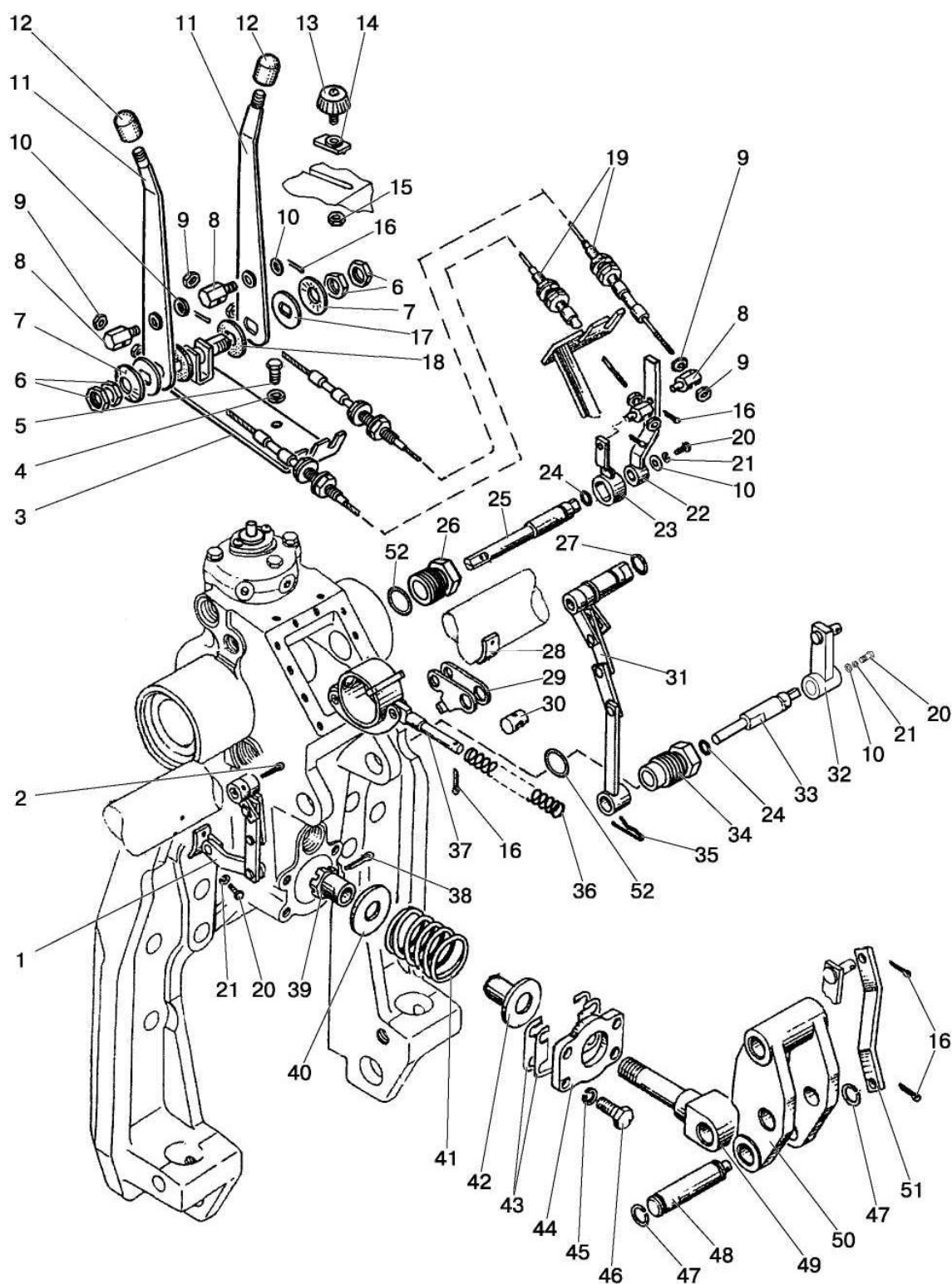


Fig. 46.17 Hydraulic lift control

Group 46. Hydraulic system
Subgroup 4635. Hydraulic lift control

Fig.	Pos.	Designation	Q-ty	Description
46.17	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 M12-6gh30.88.35.019 GOST 7796-70
	47		2	Ring S22 GOST 13940-86
	48	820-4635018	1	Pin
	49	820-4635021	1	Rod
	50	820-4635019	1	Eye bar
	51	820-4635048	1	Rod
	52		2	Ring 027-032-30-1-4 GOST 18829-73/9833-73

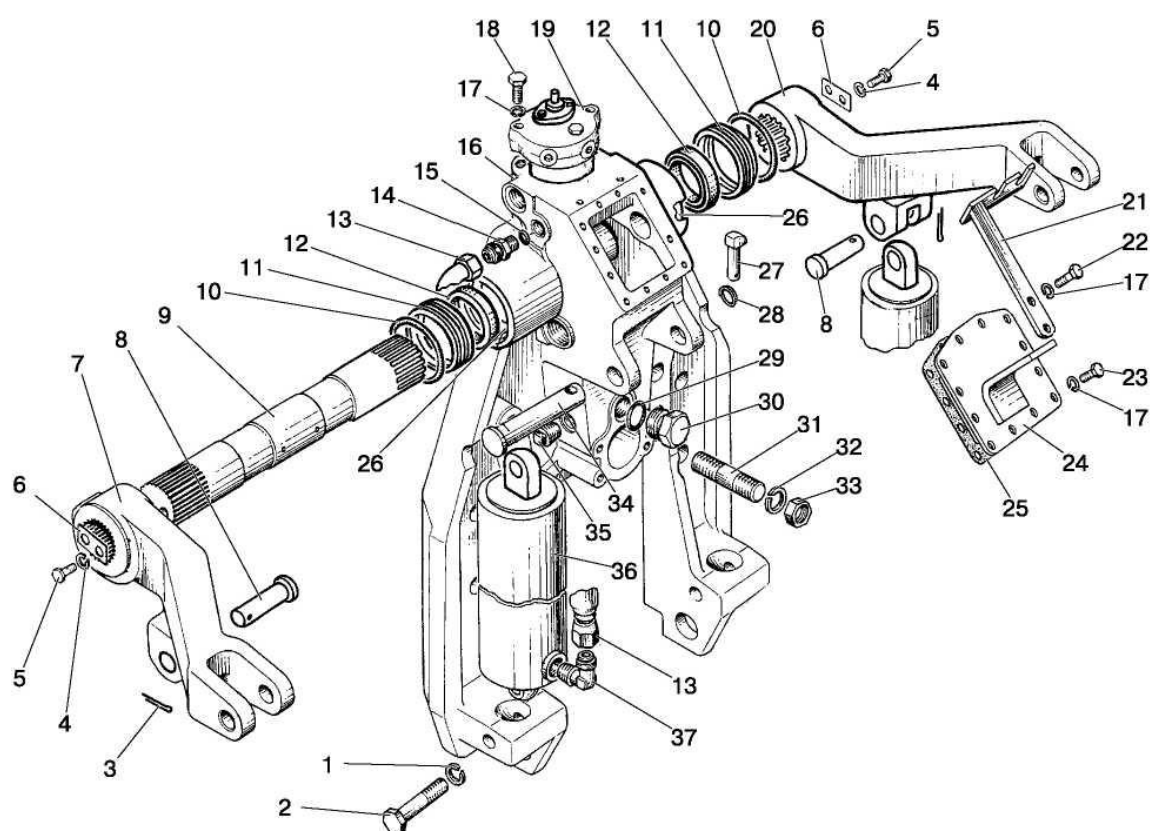


Fig. 46.18 Hydraulic lift

Group 46. Hydraulic system
Subgroup 4635. Hydraulic lift

Fig.	Pos.	Designation	Q-ty	Description
46.18	1		2	Washer 16 OT OST 37.001.115-75
	2		2	Bolt M16-6gh75.88.35.019 GOST 7795-70
	3		2	Split pin 5h36.019 GOST 397-79
	4		4	Washer 12 OT OST 37.001.115-75
	5		4	Bolt M12-6gh30.88.35.019 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	Body
	12	BABSL 60-72-7 SIMRIT 72 NBR 902	2	Collar
	13	820-4635115-01	2	High-pressure hose f10h1 armour.
	14	820-4635083	2	Fitting
	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 M8-6gh40.88.35.019 GOST 7795-70
	19	820-4634010	1	Distributor
	20	1221-4635012	1	Right lever
	21	820-4635085	1	Bracket
	22		2	Bolt M8-6gh30.88.35.019 GOST 7796-70
	23		10	Bolt M8-6gh20.88.35.019 GOST 7796-70
	24	820-4635125	1	Cover
	25	820-4635039	1	Gasket
	26	820-4635088	4	Bushing
	27	A61.05.005	1	Cotter key
	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	1321-2707068-01	4	Stud
	32		4	Washer 20 OT OST 37.001.115-75
	33		4	Nut M20-6N.6.019 GOST 5915-70
	34	A61.10.001	1	Pin
	35	PK KG 3/8"	1	Plug
	36	1221-4625010 or 1221B-4625010	2	Cylinder
	37	820-4635084	2	Angle piece

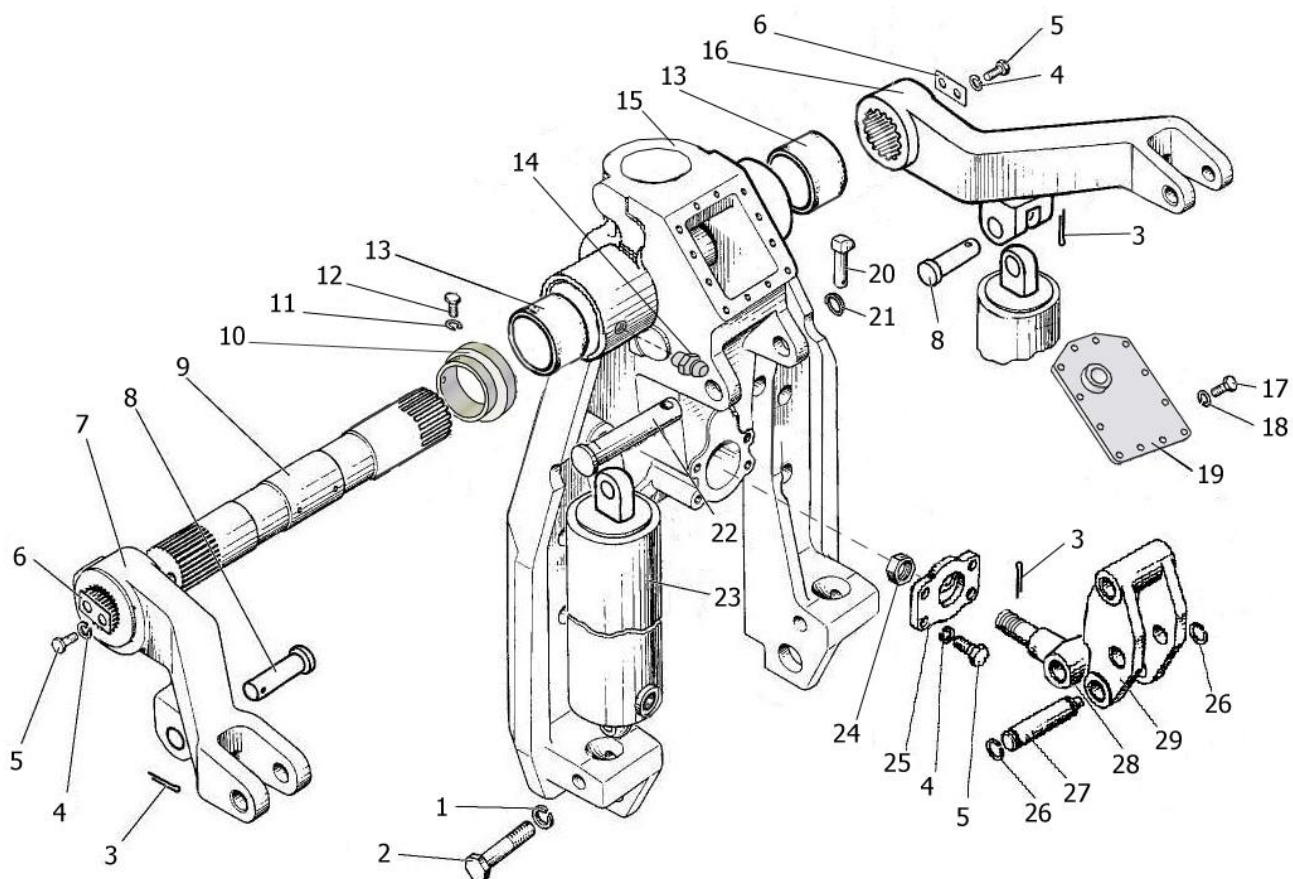


Fig. 46.19 Hydraulic lift E1221-4635010

Group 46. Hydraulic system
Subgroup 4635. Hydraulic lift

Fig.	Pos.	Designation	Q-ty	Description
46.19		E1221-4635010	1	Hydraulic lift
	1		2	Washer 16 OT OST 37.001.115-75
	2		2	Bolt M16-6gh75.88.35.019 GOST 7795-70
	3		3	Split pin 5h36.019 GOST 397-79
	4		8	Washer 12 OT OST 37.001.115-75
	5		8	Bolt M12-6gh30.88.35.019 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	E1221-4605341	1	Drive cam
	11		2	Washer 6T OST 37.001.115-75
	12		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	13	70-4605032	2	Bushing
	14		2	Oiler 1.3.TS9.hr GOST19853-74
	15	E1221-4635011	1	Housing
	16	1221-4635012	1	Right lever
	17		7	Bolt M8-6gh20.88.35.019 GOST 7796-70
	18		7	Washer 8T OST 37.001.115-75
	19	E1221-4635125	1	Cover
	20	A61.05.005	1	Cotter key
	21	A61.05.004	1	Ring
	22	A61.10.001	1	Pin
	23	820-4625010-B or 820N-4625010-B 820E-4625010-B	2	Cylinder
	24	50-3405053	1	High nut
	25	820-4635043-B	1	Cover
	26	2V22.019 GOST 13940-86	2	Ring
	27	820-4635018	1	Pin
	28	E1221-4635021	1	Rod
	29	820-4635019	1	Eye bar

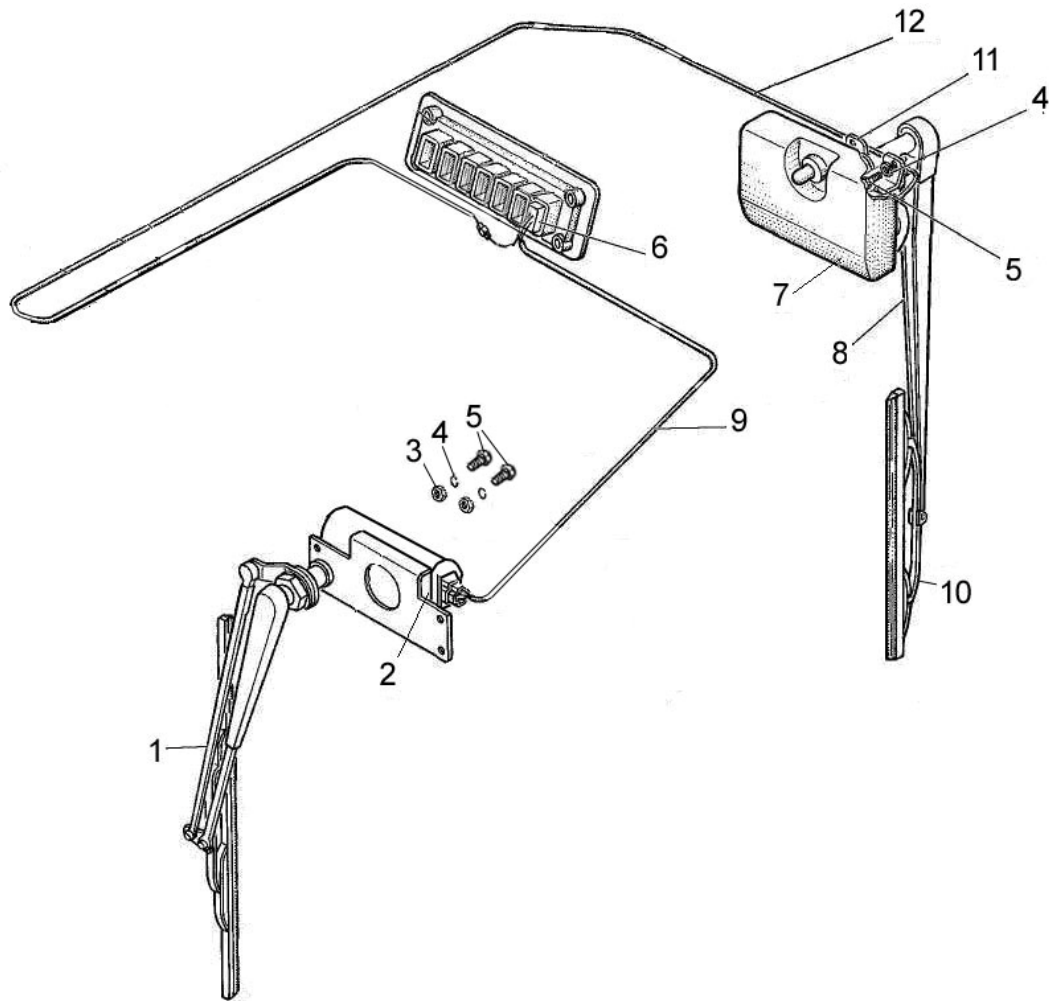


Fig.52.1. Windscreen wiper assembly

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Group 37. Electrical equipment
Subgroup 5205. Windscreen wiper assembly

Fig.	Pos.	Designation	Q-ty	Description
52.1		80-5205050-B		Windscreen wiper assembly
	1	UGFL.5205015 or 78700030	1	Lever with front wiper blade 660/600
	2	MR-05 or MR-05M or 192090010 or 96.5205100 GOST 18699-73	1	Pantograph windscreen wiper
	3		4	Nut S6.01.019 GOST 11371-78
	4		6	Washer 6T OST 37.001.115-75
	5		6	Bolt M6-6gh16.88.35.019 GOST 7798-70
	6	P147M-09.09 or PK147-09.09	1	Wiper switch
	7	475.3730-10 or ST-240 or A18-45.00.100	1	Windscreen wipers
	8	009.48.00 or A18-45.00.200 or 420R.5205 or 20.5215 300	1	Wiper lever 420.1
	9	80V-3724010-B	1	Bundled cable
	10	A10-450.01 or 450V.5205 or 20.5215.400 or 450.04.00	1	Wiper blade 450
	11	80-5205031	1	Bracket
	12	80V-3724310-14	1	Cable

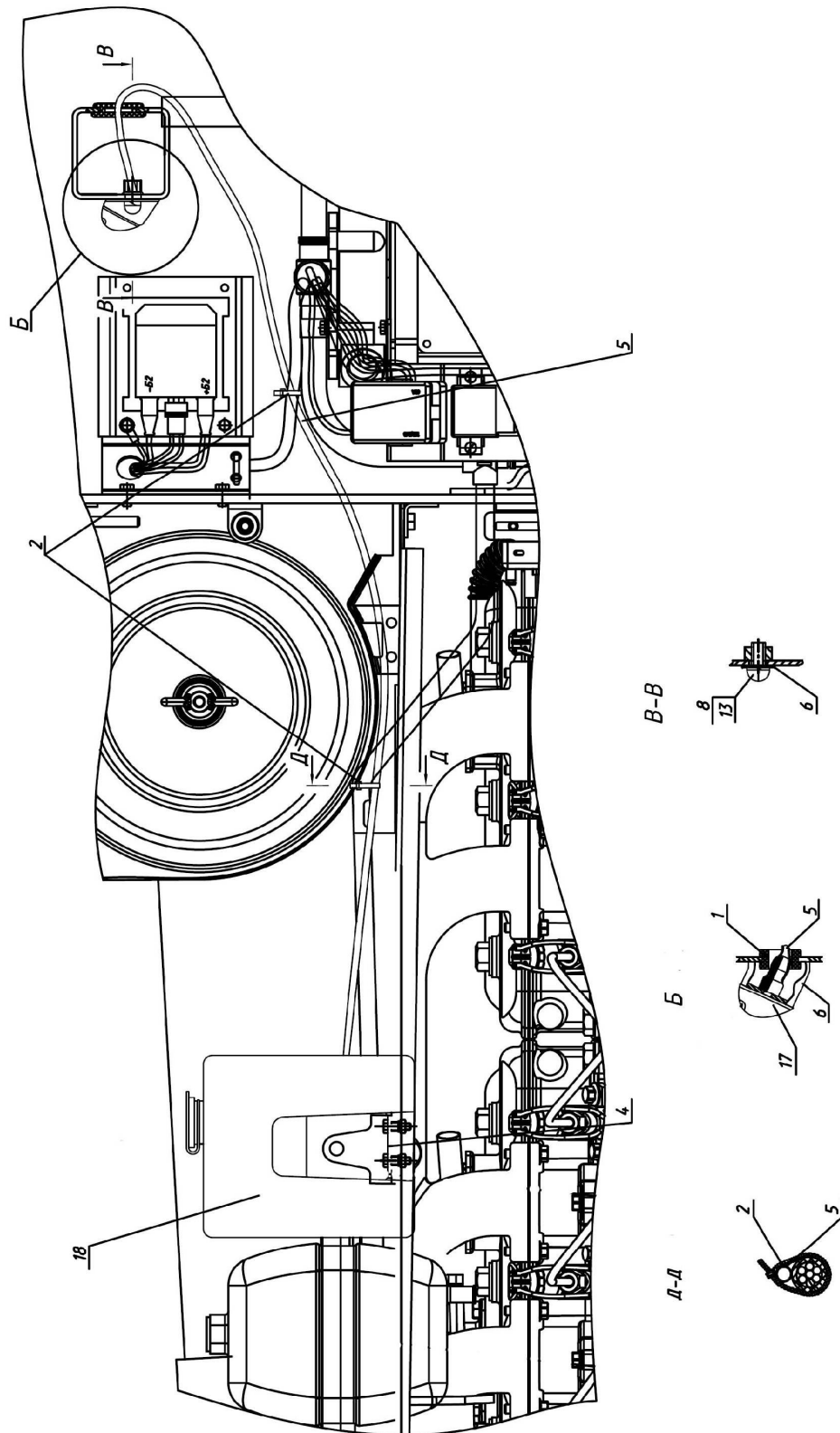
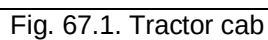


Fig. 52.2 Windscreen washer assembly

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Group 52. Windscreen washer
Subgroup 5208. Windscreen washer assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
52.2		1221.4M-5208010	1	Windscreen washer assembly
	1	70-3723042-01	1	Bushing
	2	80-3723045	2	Collar
	4	82P-5208001	1	Bracket
	5	320-5208002	1	Pipe
	6	80-5208011-A	1	Flange
	7		1	Bolt M6-6gh16.88.35.019 GOST 7798-70
	8		2	Screw V.M6-6gh12.58.019 GOST 17473-80
	10		1	Nut M6-6N.6.019 GOST 5915-70
	11		2	Washer S 6.01.019 GOST 11371-78
	13		3	Washer 6T OST 37.001.115-75
	17	5208.10	1	Jet 1202.5208500-02 or ADIOI.306549.001
	18	122.5208 000 -35	1	Electrical windscreen washer TU 37.459.176-94



Group 67. Tractor cab
Subgroup 6700. Tractor cab

Fig.	Pos.	Designation	Q-ty	Description
67.1		1221-6700010	1	Cab assy
		80-6708210	1	Rear frame (32-35)
		80-6708900-01	2	Glass assy (13, 14, 19, 24, 45, 47-50)
	1	3,2h18.019 GOST 397-79	8	Split pin
	2	6700.01	4	Airlift
	3	M6-6N.6.019 GOST 5915-70	22	Nut
	4	80-6708225	6	Bracket
	5	S 6.01.019 GOST 11371-78	32	Washer
	6	M6-6gh20.88.35.019 GOST 7798-70	30	Bolt
	7	A30.04.017	8	Cap
	8	80-6700031-B-01	1	Right bracket
	9	85-6703056	1	Insert
	10	80-6703012-A or 80-6703012-A1	2	Glass
	11	A37.08.043 or A37.08.043-01	2	Sealant
	12	M8-6gh20.88.35.019 GOST 7796-70	4	Bolt
	13	A30.04.017-01	4	Cap
	14	8T OST 37.001.115-75	24	Washer
	15	S 8.01.019 GOST 11371-78	22	Washer
	16	80-3805030	2	Bracket
	17	80-6703011-A or 80-6703011-A1	1	Glass
	18	80-6700018	1	Sealant L=4200 mm
	19	80-6703112-A	1	Right handrail
	20	M8-6N.6.019 GOST 5915-70	8	Nut
	21	6T OST 37.001.115-75	8	Washer
	22	85-6701033	2	Pin
	23	80-8201050	2	Mirror
	24	80-8201106-B	2	Pipe
	25	A30.04.017-02	4	Cap
	26	80-8201107	4	Washer
	27	M8-6gh30.88.35.019 GOST 7796-70	8	Bolt
	28	A37.08.045	1	Sealant
	29	80-6707010-B	2	Hinge
	30	80-6707025/-01/-02 (sm. Fig.67.1) or D82-6707025/-01 (sm. Fig.67.3,67.4)	1	Roof assy
	31	1221-6700020	1	Cab (fabricated frame)
	32	80-6708211-A or 80-6708211-A1	1	Glass
	33	80-6708215	1	Frame
	34	A34.08.043-05	1	Sealant
	35	80-6700021-01/-02	1	Sealant
	36	549A-1305044	2	Ring
	37	80-6707082 ¹⁾	1	Facing
	38	V.M6-6gh12.58.019 GOST 17473-80	2	Screw
	39	S 6.01.019 GOST 6958-78	10	Washer
	40	80-6707075 ¹⁾	1	Bracket
	41	A37.09.010	1	Latch
	42	80-6707080	1	Handrail
	43	V.M6-6gh20.58.019 GOST 17473-80	3	Screw
	44	V.M5-6gh50.58.019 GOST 17473-80	1	Screw
	45	80-6708903	4	Bushing
	46	8h65 OST 37.001.163-75	4	Pin
	47	80-6708902	4	Hinge

¹⁾ For roof 80-6707025/-01

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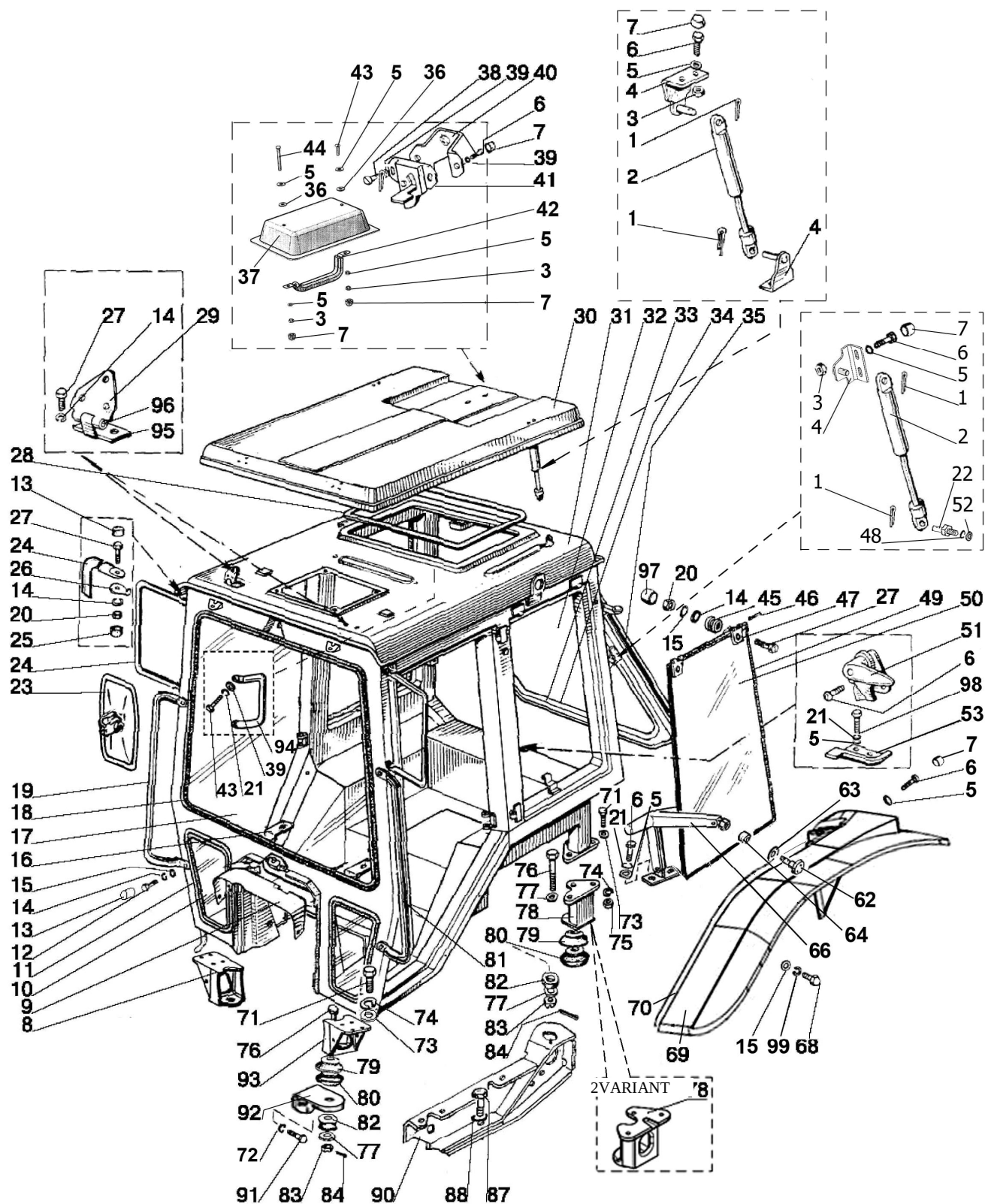


Fig. 67.1. Tractor cab

Group 67. Tractor cab
Subgroup 6700. Tractor cab. Rear fenders

Fig.	Pos.	Designation	Q-ty	Description
67.1	45	80-6708903	4	Bushing
	46	8h65 OST 37.001.163-75	4	Pin
	47	80-6708902	4	Hinge
	48		2	Washer 10 OT OST 37.001.115-75
	49	F-202	2	Sealant
	50	1221-6708901-A or 1221-6708901-A1	2	Glass
	51	A37.05.025	1	Detent
	52		2	Washer S10.01.019 GOST 6958-78
	53	A37.05.021-B	1	Bracket
	62	80-6708975	2	Screw
	63	80-6708904	2	Gasket
	64	A37.01.041	2	Bushing
	66	80-6708970	2	Handle
	68	M8-6gh20.88.35.019 GOST 7796-70	18	Bolt
	69	D82-8404020-A1 or D82-8404020-A or L82-8404011	1	Fender (left)
		D82-8404020-A1-01 or D82-8404020-A-01 or L82-8404011-01	1	Fender (right)
	70	80-8404013-B	2	Sealant
	71	M12-6gh30.88.35.019 GOST 7796-70	14	Bolt
	72		6	Washer 16 OT OST 37.001.115-75
	73		8	Washer S 12.01.019 GOST 11371-79
	74		14	Washer 12 OT OST 37.001.115-75
	75		6	Nut M12-6N.6.019 GOST 5915-70
	76	80-6700029	4	Bolt
	77		4	Washer S 16.01.019 GOST 11371-79
	78	1221-6700035 1221-6700037 ²⁾	1	Left support
		1221-6700035-01 1221-6700037-01 ²⁾	1	Right support
	79	80-6700163	4	Cage
	80	80-6700160	4	Vibration isolator
	81	80-6703112-A	1	Left handrail
	82	130-5001364-V	4	Pad
	83		4	Nut M16-6N.6.019 GOST 5918-73
	84		4	Split pin 4h36.019 GOST 397-79
	87	1221-6702301 or M20-6gx70.88.35.019 GOST 7796-70	4	Bolt
	88		4	Washer 20 OT OST 37.001.115-75
	90	1221-6702300	1	Left bracket
		1221-6702300-01	1	Right bracket
	91	M16-6gh45.88.35.019 GOST 7796-70	6	Bolt
	92	85-6702068	2	Left bracket, right
	93	80-6700031-B	1	Left bracket
	94	80-6708209	1	Handle
	95	80-6707013	2	Hinge
	96	70-6708189	2	Axle
	97		4	Cap A30.04.017-02
	98	M6-6gx14.88.35.019 GOST 7798-70	2	Bolt
	99		20	Washer 8L OST 37.001.115-75

²⁾ Variant

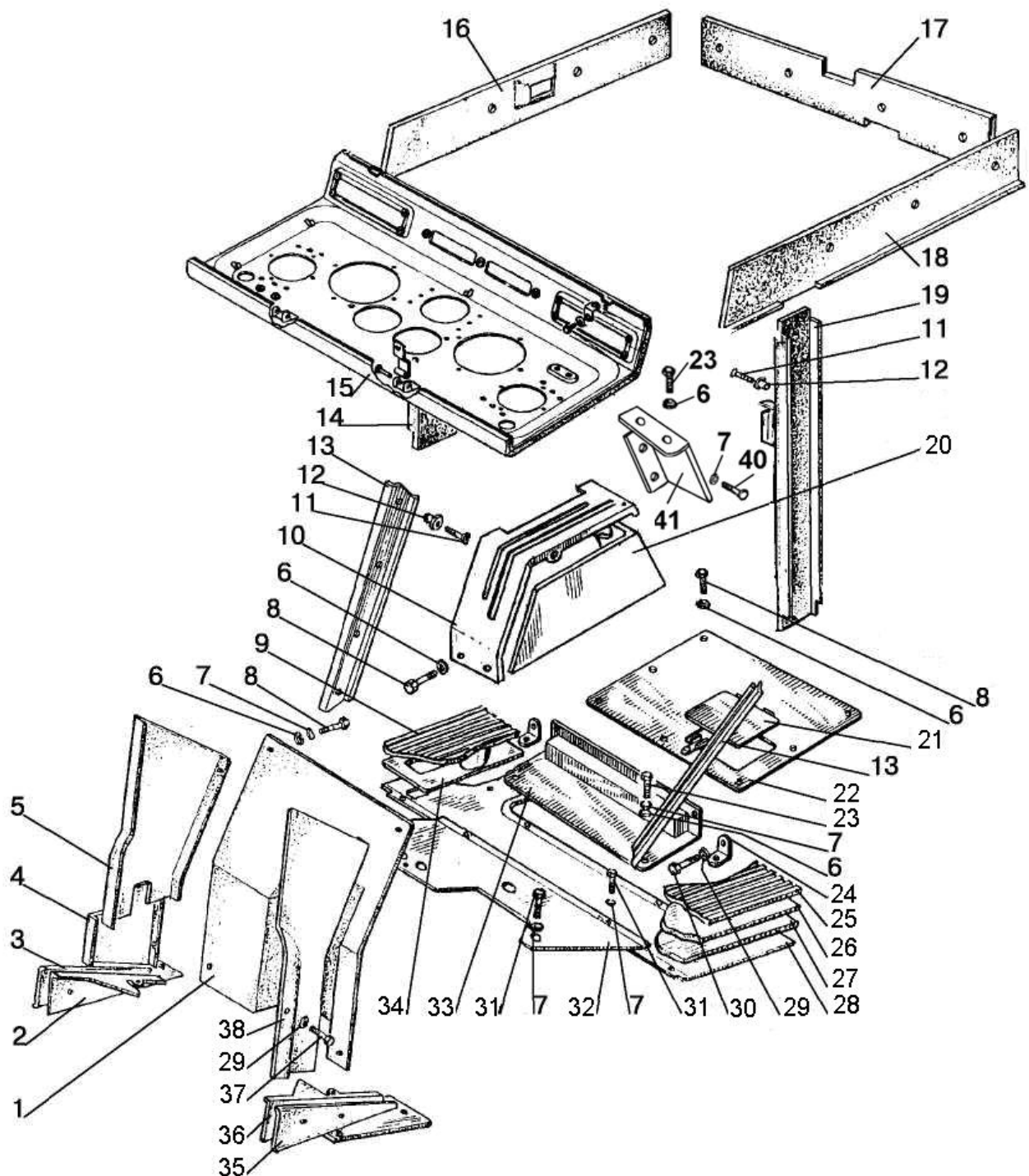


Fig. 67.2. Tractor cab

Group 67. Tractor cab
Subgroup 6700. Tractor cab

Fig.	Pos.	Designation	Q-ty	Description
67.2	1	80-6700300	1	Panel
	2	80-6702330	1	Strap
	3	80-6702328-01	1	Side member
	4	85-6700330	1	Panel
	5	85-6700340	1	Panel
	6		16	Washer S 6.01.019 GOST 6858-78
	7		20	Washer 6T OST 37.001.115-75
	8		14	Bolt M8-6gh25.88.35.019 GOST 7796-70
	9	80-6702333-A ¹⁾ or 80-6702333-A1 ¹⁾	1	Right floor covering
		80-6702337 ²⁾ or 80-6702337-A ²⁾	1	Floor covering
	10	1221-6700036 or 1221-6700036-01 or 1221-6700036-02	1	Cover
	11		28	Screw 1-4h25.019 GOST 1144-80
	12	A37.10.031	28	Threaded rivet nut
	13	80-6702111	1	Holddown clamp
		80-6702111-B	1	Holddown clamp
	14	1221-6700060	1	Strap
	15	80-8100100	1	Panel
	16	1221-6700065	1	Strap
	17	80-6700205	1	Strap
	18	1221-6700050	1	Strap
	19	1221-6700060	1	Strap
	20	85-6700040-B	1	Panel
	21	80-6702190	1	Cover
	22	85-6702195	1	Cover
	23		16	Bolt M6-6gh16.88.35.019 GOST 7798-70
	24	70-6702111	2	Angle piece
	25	80-6702332 ¹⁾ or 80-6702332-A ¹⁾	1	Left floor covering
	26	80-6702469-D ¹⁾	1	Gasket
	27	80-6702469-L ²⁾	1	Gasket
	28	80-6702315-B	1	Panel
	29		10	Washer S 6.01.019 GOST 11371-78
	30		4	Bolt M8-6gh16.88.35.019 GOST 7796-70
	31		4	Screw V.M6-6gh12.58.019 GOST 17473-80
	32	80-6702310	1	Floor
	33	85-6702085	1	Cover
	34	85-6702201	1	Sealant
	35	80-6702328	1	Side member
	36	80-6702320	1	Strap
	37		2	Bolt M8-6gh40.88.35.019 GOST 7795-70
	38	80-6700320	1	Panel
	40	M6-6gx20.88.35.019 GOST 7798-70	5	Bolt
	41	80-6700085	1	Bracket

¹⁾ To mount as a set, can be substituted for pos.80-6702337 (or 80-6702337-A)

²⁾ Can be substituted for pos. 80-6702333-A (or 80-6702333-A1) together with 80-6702332 (or 80-6702332-A)

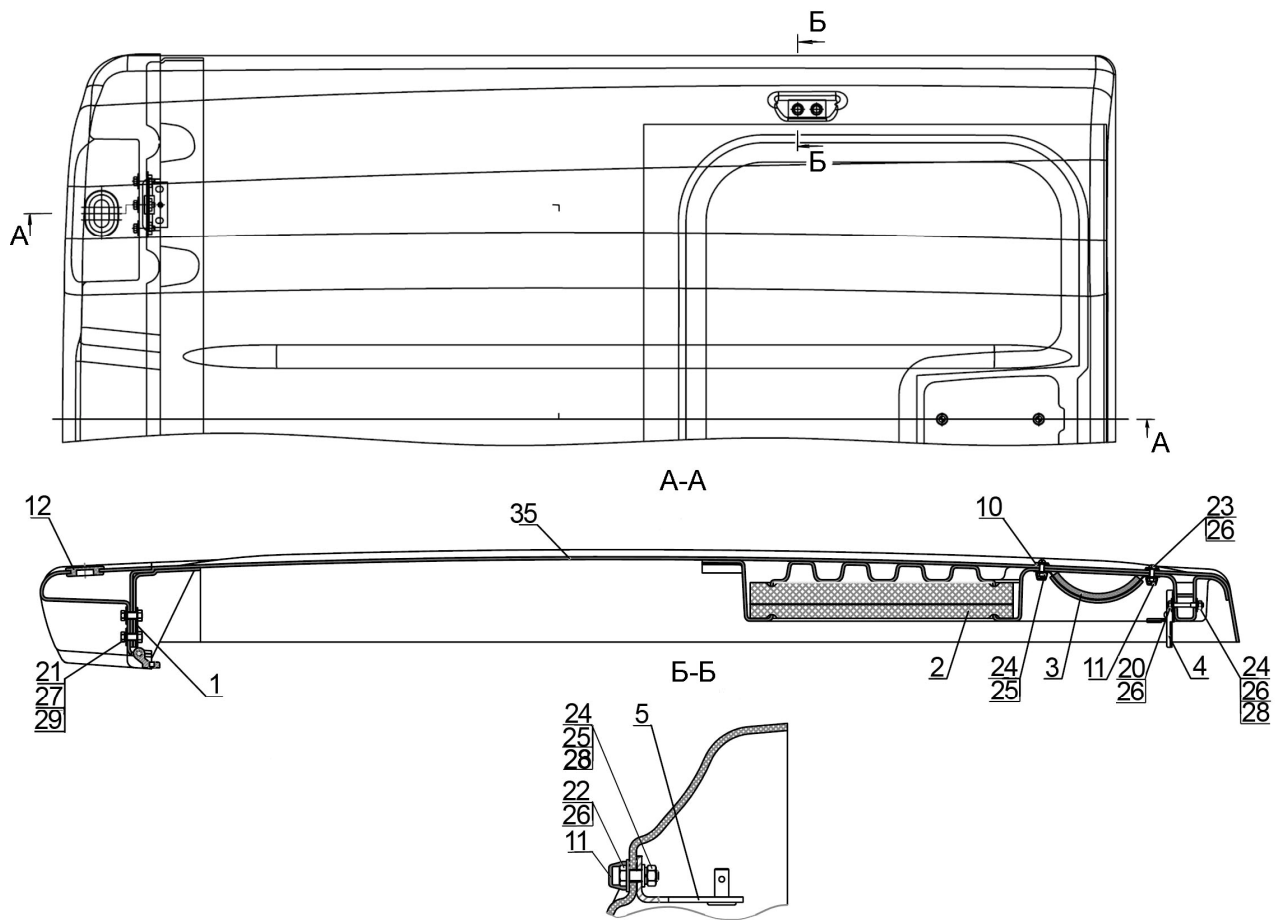


Fig. 67.3 Roof

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**Group 67. Tractor cab
Subgroup 6700. Roof**

Fig.	Pos.	Designation	Q-ty	Description
67.3	1	80-6707020-01	2	Hinge
	2	D82-6707030	1	Lining
	3	80-6707080	1	Handrail
	4	A37.09.010	1	Latch
	5	80-6708225	2	Bracket
	10	549A-1305044	2	Ring
	11	A30.04.017	6	Cap
	12	80h-8400026	2	Ring
	20		2	Bolt M6-6gh45.88.35.019 GOST 7795-70
	21		6	Bolt M8-6gh25.88.35.019 GOST 7796-70
	22		4	Bolt M6-6gh18.88.35.019 GOST 7798-70
	23		2	Bolt M6-6gh25.88.35.019 GOST 7798-70
	24		8	Nut M6-6N.6.019 GOST 5915-70
	25		10	Washer S 6.01.019 GOST 6858-78
	26		6	Washer 6T OST 37.001.115-75
	27		6	Washer 8T OST 37.001.115-75
	28		6	Washer S 8.01.019 GOST 6858-78
	29		6	Washer S 6.01.019 GOST 11371-78
	35	D82-6707035	1	Roof

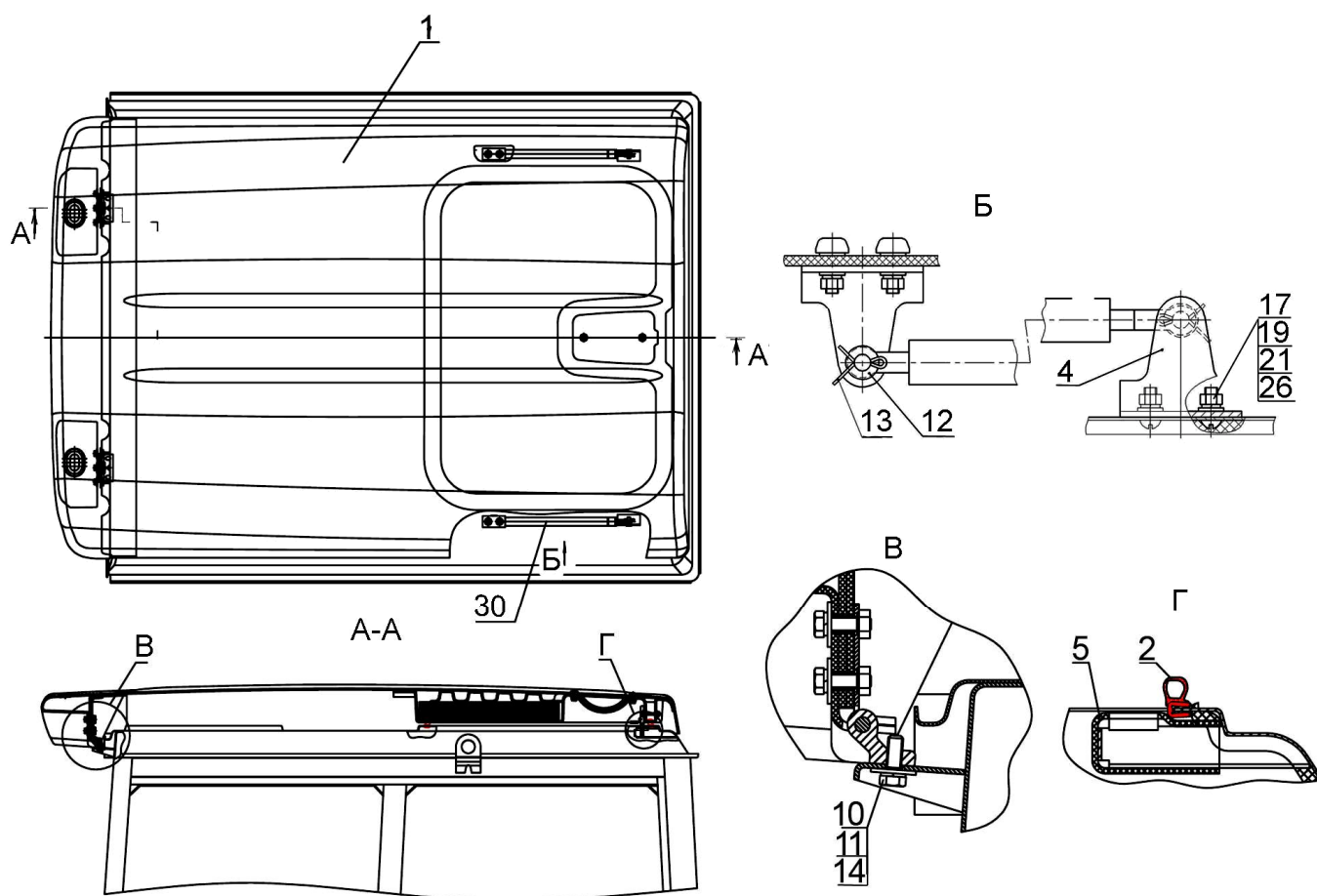


Fig. 67.4 Roof

BELARUS 1221.5**Group 67. Tractor cab
Subgroup 6700. Roof**

Fig.	Pos.	Designation	Q-ty	Description
67.4	1	D82-6707025/-01	1	Roof
	2	A37.08.045	1	Sealant
	4	80-6708225	2	Bracket
	5	80-6700027-A	1	Casing
	10		2	Bolt M8-6gh30.88.35.019 GOST 7796-70
	11		2	Washer S 8.01.019 GOST 6958-78
	12		4	Washer S 8.01.019 GOST 11371-78
	13		4	Split pin 3,2h18.019 GOST 397-79
	14		2	Washer 8T OST 37.001.115-75
	17		4	Screw V.M6-6gx16.58.019 GOST 17473-80
	19		4	Nut M6-6N.6.019 GOST 5915-70
	21		4	Washer S 6.01.019 GOST 11371-78
	26		4	Washer 6T OST 37.001.115-75
	30	6700.01	2	Airlift

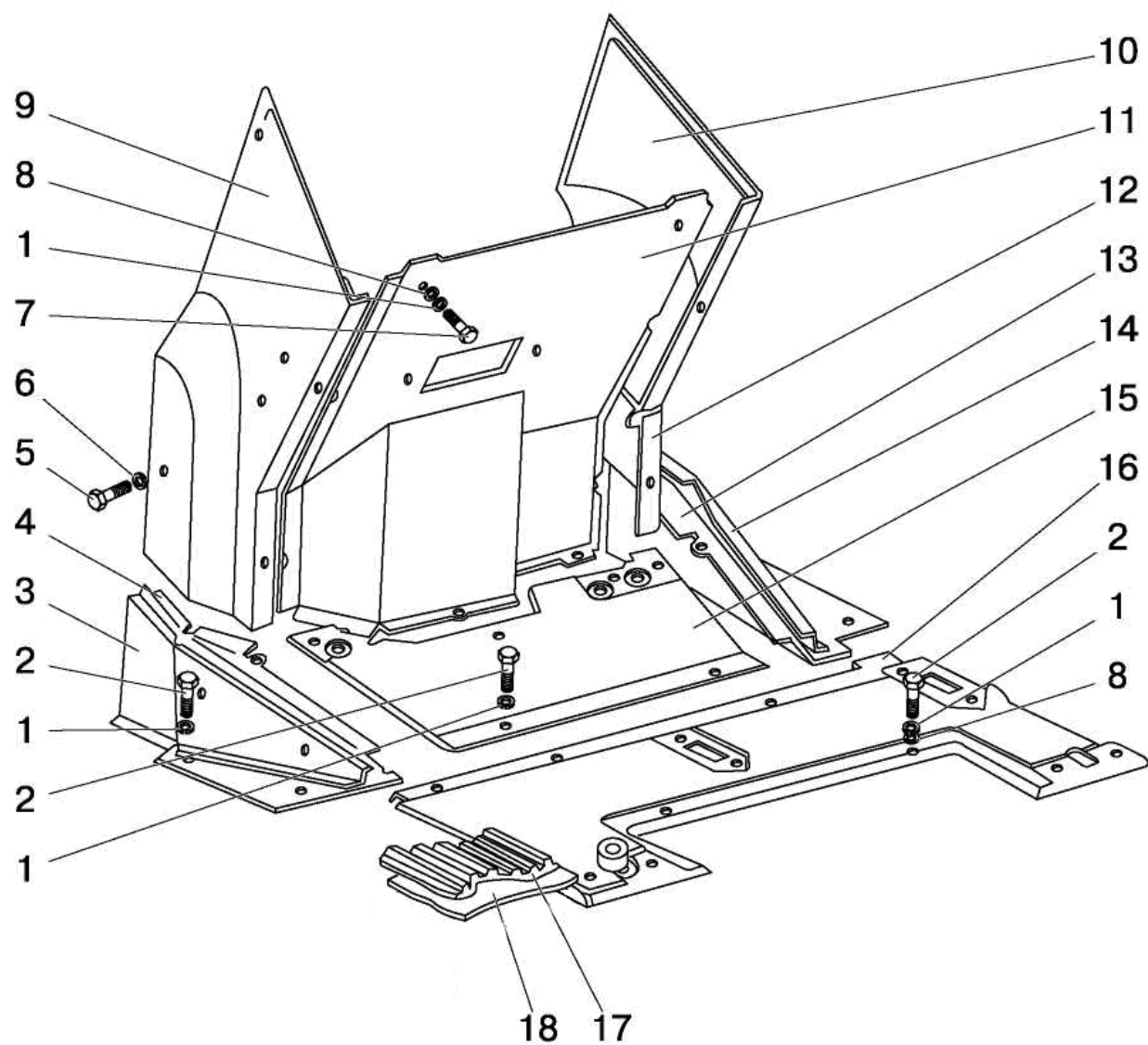


Fig. 67.5. Panels

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

Fig.	Pos.	Designation	Q-ty	Description
67.5	1		24	Washer 6T OST 37.001.115-75
	2		16	Bolt M6-6gh16.88.35.019 GOST 7798-70
	3	80-6702328	1	Strap
	4	80-6702320	1	Side member
	5		2	Bolt M8-6gh40.88.35.019 GOST 7796-70
	6		2	Washer S 8.01.019 GOST 11371-78
	7		8	Bolt M6-6gh25.88.35.019 GOST 7798-70
	8		18	Washer S 6.01.019 GOST 11371-78
	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	Strap
	14	80-6702330	1	Side member
	15	80-6702310	1	Floor
	16	80-6702315-B	1	Panel
	17	80-6702342-A	1	Left floor covering
		80-6702343-A	1	Right floor covering
	18	80-6702469-D	1	Gasket

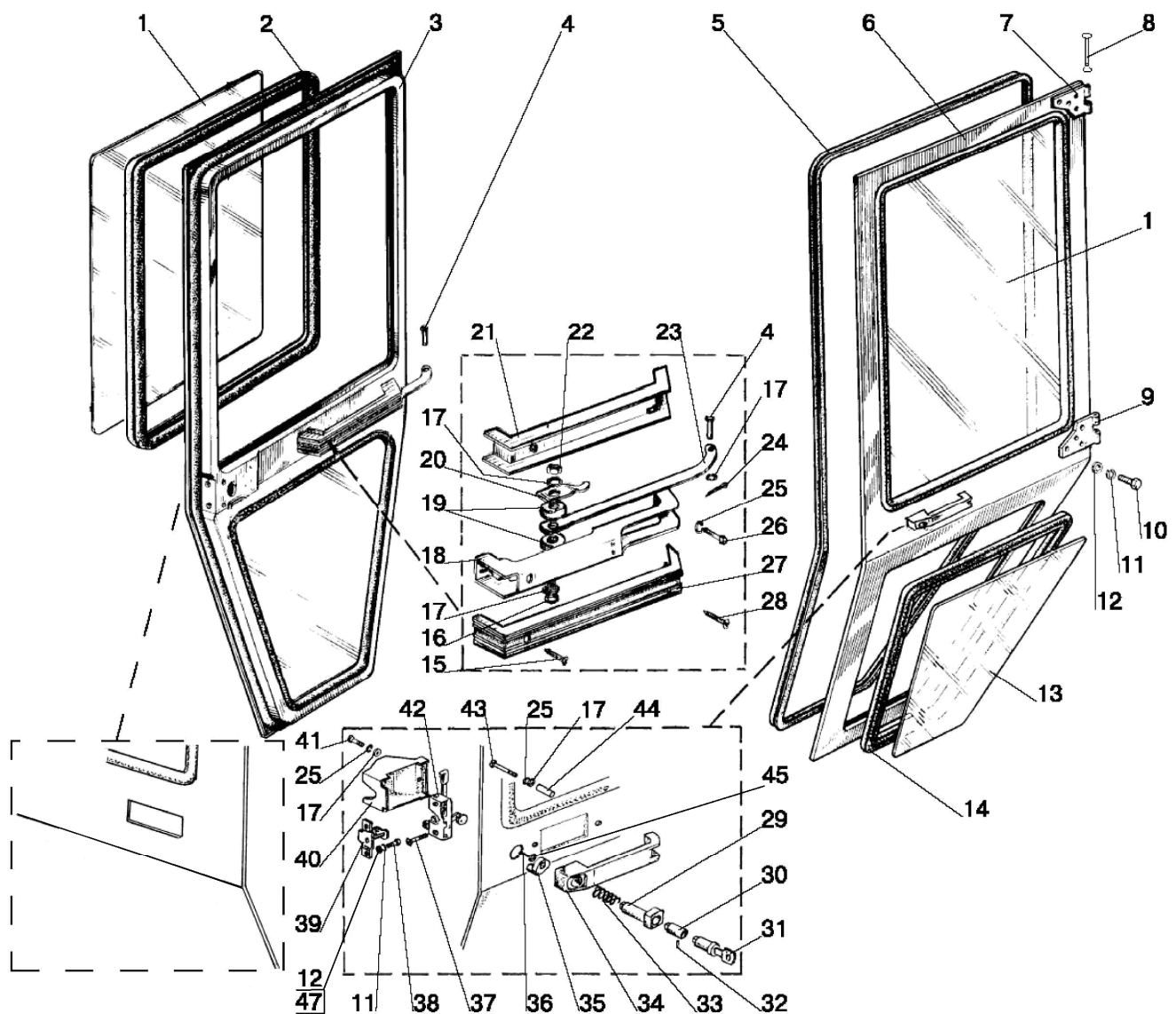


Fig. 67.6. Cab doors

Group 67. Tractor cab
Subgroup 6708. Cab doors

Fig.	Pos.	Designation	Q-ty	Description
67.6		80-6708010-B	1	Door (left) (1, 2, 5-7, 9-14)
		80-6708010-B-02	1	Door (right) (1-3, 5, 7, 9-14)
		80-6105300-A1		Handle (left) (29-36)
		80-6105330-A1		Handle (right) (33-36, 45-47)
	1	80-6708013-A or 80-6708013-A1	2	Glass
	2	A37.08.043-02	2	Sealant L=2720 mm
	3	80-6708020-B-02	1	Door (right)
	4	8h22 OST 37.001.163-75	2	Pin
	5	80-6700021-A	2	Profile
	6	80-6708020-B	1	Left door
	7	A37.03.022-B	2	Upper hinge
	8	822-6700011-01	10	Pin
		5T OST 37.001.115-75	10	Washer
	9	A37.03.022-B-01	2	Lower hinge
	10	M8-6gh25.88.35.019 GOST 7796-70	12	Bolt
	11	8T OST 37.001.115-75	12	Washer
	12	S 8.01.019 GOST 11371-78	12	Washer
	13	80-6708014-A or 80-6708014-A1	2	Glass
	14	A37.08.043-03	2	Sealant
	15	1-4h40.019 GOST 1144-80	2	Screw
	16	M6-6gh35.88.35.019 GOST 7798-70	2	Bolt
	17	S 6.01.019 GOST 11371-78	6	Washer
	18	80-6708610	2	Handrail
	19	80-6708619 or 80-6708619-A	4	Dashpot
	20	80-6708618	4	Spring
	21	80-6708602	2	Strap
	22	M6-6H.019 TU 23.1.505-91	2	Nut
	23	80-6708616	2	Lever
	24	3,2h18.019 GOST 397-79	2	Split pin
	25	6T OST 37.001.115-75	6	Washer
	26	M6-6gh16.88.35.019 GOST 7798-70	6	Bolt
	27	80-6708603	2	Strap
	28	1-4h25.019 GOST 1144-80	2	Screw
	29	80-6105301	1	Button
	30	80-6105304-B1	1	Bushing
	31	945.025.11.01.00	1	Cylinder mechanism
	32	2h11,8V3 GOST 6870-81	2	Roller
	33	80-6105302	1	Spring
	34	80-6105305	1	Handle
	35	80-6105303	1	Pusher
	36	4h10.019 TU RB 400024166.001-2000	1	Screw
	37	V.M8-6gh25.58.019 GOST 17475-80	4	Screw
	38	M8-6gh16.88.35.019 GOST 7796-70	4	Bolt
	39	80-6105170-B	2	Latch
	40	80-6708812	1	Cover (left)
		80-6708812-01	1	Cover (right)
	41	V.M6-6gh16.58.019 GOST 17475-80	2	Screw
	42	80-6105050	1	Lock (left)
		80-6105050-01	1	Lock (right)
	43	V.M6-6gh45.58.019 GOST 17473-80	2	Screw
	44	80-6708813	2	Bushing
	45	S 4.01.019 GOST 6958-78	1	Washer
	47	80-6105171	4	Washer

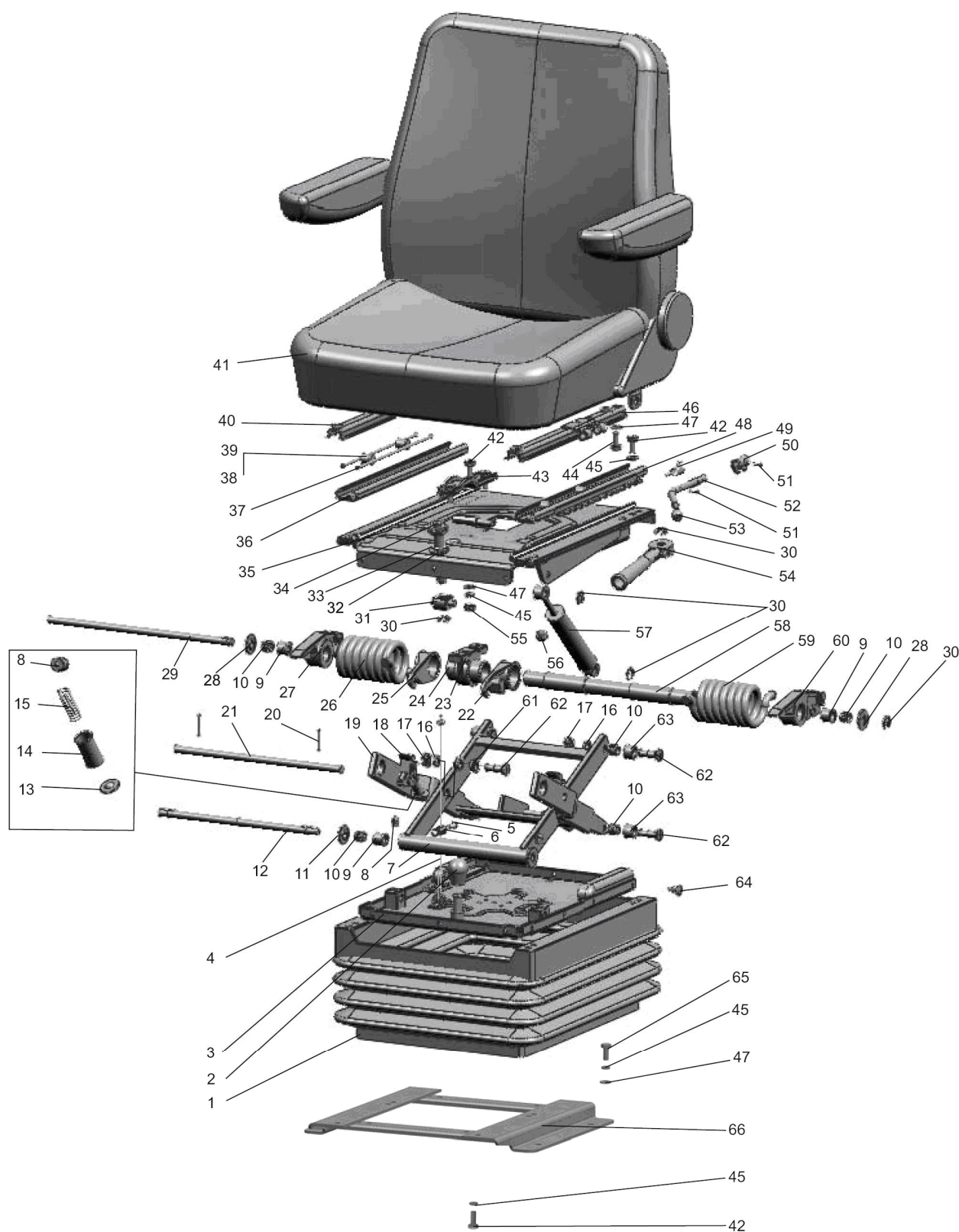


Fig.68.1. Operator's seat

Group 68. Driver's seat
Subgroup 6800. Operator's seat

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
68.1		80-6800010	1	Seat (1-64)
		80-6800010-01	1	Seat (1-64)
		«Grammer MSG85/721» ¹⁾	1	Seat
	1	80V-6800108	1	Cover
	2	A61.01.014	1	Handle
	3	80V-6801560	1	Base
	4	80V-6801240	1	Cord
	5	V.M5-6gh16.58.019 GOST 17473-80	2	Screw
	6	70-4803023	1	Clutch
	7	80V-6801590-B	1	Frame
	8	80V-6801521	4	Limit stop
	9	80V-6801512	4	Bushing
	10		8	Bearing K12h16h13E GOST 24310-80
	11	80V-6801033-01	2	Washer
	12	80V-6801508	1	Axle
	13	80V-6801519	2	Thrust collar
	14	80V-6801518	2	Sleeve
	15	80V-6801530-B	2	Spring
	16		6	Washer 10 OT OST 37.001.115-75
	17		6	Nut M10-6N.04.019 GOST 5919-73
	18	80V-6801581	2	Detent
	19	80V-6801570	1	Frame
	20		2	Split pin 4h22.019 GOST 397-79
	21	80V-6801012	1	Axle
	22	80V-6801004-01	1	Hook
	23	80V-6801001	1	Bracket
	24	80V-6801003	1	Axle
	25	80V-6801004	1	Hook
	26	80V-6801002	1	Spring
	27	80V-6801507	1	Sector segment
	28	80V-6801033	2	Washer
	29	80V-6801506	1	Axle
	30	70-6801307	5	Washer
	31	80V-6801023	1	Nut
	32	80V-6801008	1	Washer
	33		22	Ball 3,0-100 GOST 3722-81
	34	80V-6801152	1	Screw
	35	80-6801550	1	Panel
	36	80-6800104	1	Guide
	37	70-6804394-B	4	Rod
	38	70-6804391	4	Roller
	39		4	Ring 010-015-30-2-3 GOST 18829-73/GOST 9833-73
	40	80-6800110-01	1	Rail
	41	CO-10	1	Seat
		CO-10-01	1	Seat
	42	M8-6gh20.88.35.019 GOST 7796-70	11	Bolt
	43	80V-6801031	1	Stiffener
	44	V.M8-6gh25.58.019 GOST 1491-80	4	Screw
	45		15	Washer 8T OST 37.001.115-75
	46	80-6800110	1	Rail

¹⁾ Optional

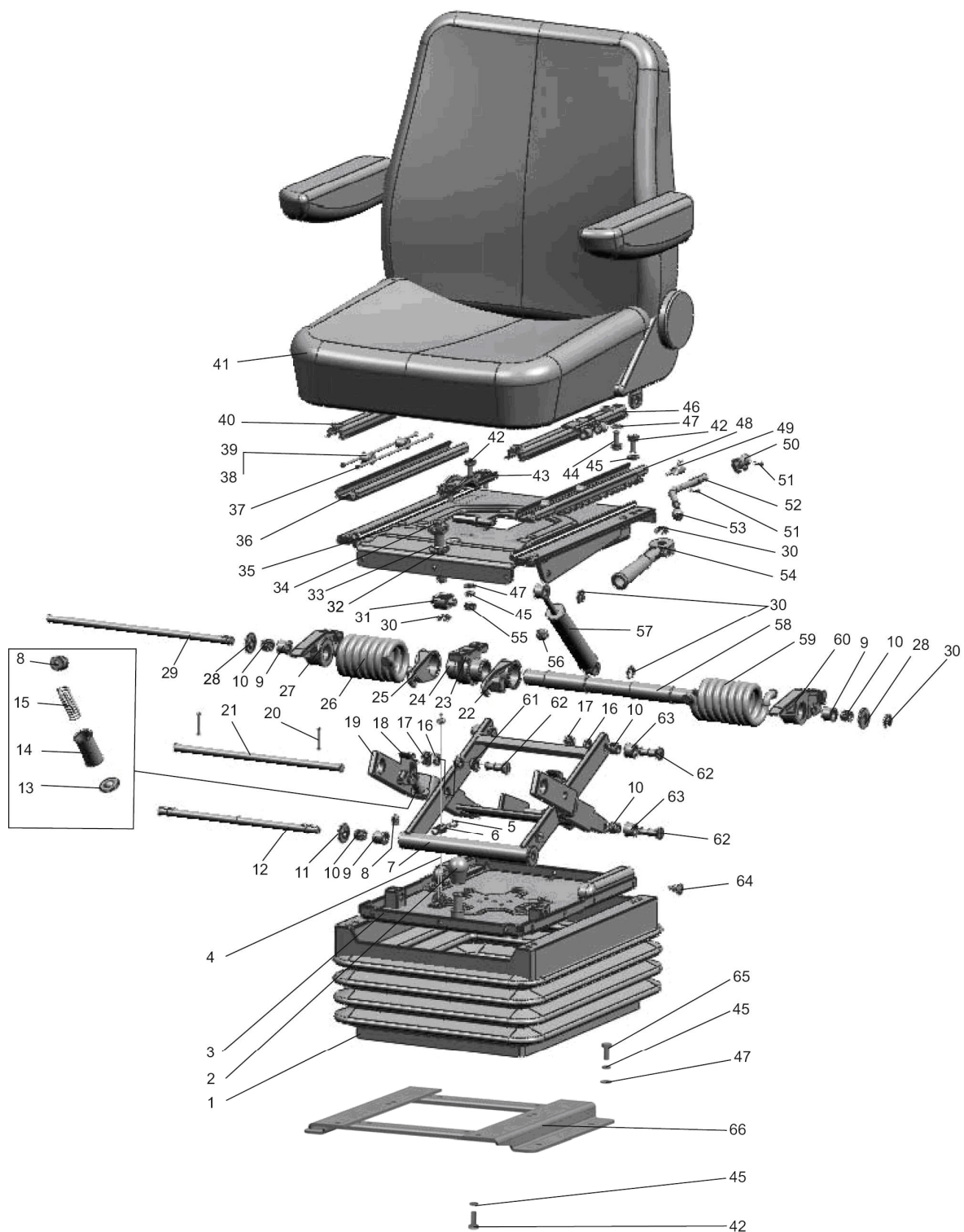


Fig.68.1. Operator's seat

Group 68. Driver's seat
Subgroup 6800. Operator's seat

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
68.1	47		10	Washer S 8.01.019 GOST 11371-78
	48	80-6800120	1	Guide
	49	80-6800103	1	Spring
	50	80-6800102	1	Stop member
	51	70-4202431-01	2	Dowel
	52	80-6800101	1	Handle
	53	70-6801082	1	Handle
	54	80V-6801150	1	Handle
	55		1	Nut M8-6N.04.019 GOST 5916-70
	56	80-6801531	6	Dashpot
	57	80-6809100-11	1	Shock adsorber
	58	80V-6801505	1	Shaft
	59	80V-6801002-01	1	Spring
	60	80V-6801507-01	1	Sector segment
	61	80V-6801526	4	Bushing
	62	80V-6801528	6	Axle
	63	80V-6801032	4	Roller
	64	80-6800006	20	Button
	65		4	Bolt M8-6gh30.88.35.019 GOST 7796-70
	66	80V-6807200	1	Bracket

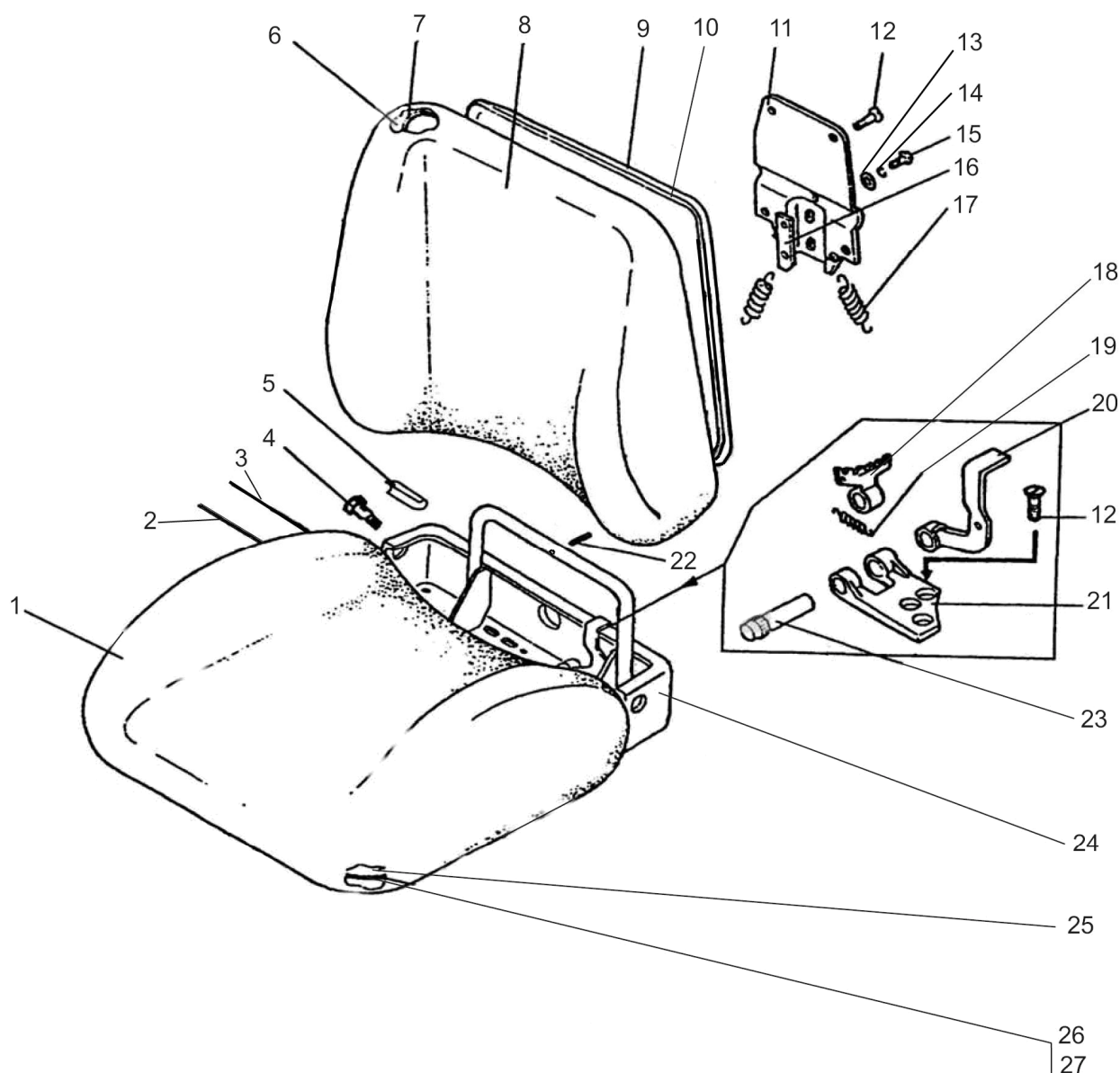


Fig.68.2 Operator's seat.

Group 68. Driver's seat
Subgroup 6804. Operator's seat

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
68.2		80V-6804000	1	Driver's seat (1-27)
	1	80V-6804500	1	Cover
	2	80V-6804003	1	Rod
	3	80V-6804009	1	Axle
	4	80V-6800106	2	Bolt
	5	80V-6804015	2	Bushing
	6	80V-6805001	1	Pad
	7	80V-6805002	1	Frame
	8	80V-6805500	1	Cover
	9	PPR26-04	1	Profile
	10	80V-6805010	1	Base
	11	80V-6804040	1	Support
	12		7	Screw V.M8-6gh16.58.019 GOST 17475-80
	13		2	Washer S 6.01.019 GOST 11371-78
	14		2	Washer 6T OST 37.001.115-75
	15		2	Bolt M6-6gh14.88.35.019 GOST 7798-70
	16	80V-6804001	1	Latch
	17	80V-6804013-B	2	Spring
	18	80V-6804011	1	Comb
	19	50-1310158-B	1	Spring
	20	80V-6804080	1	Lever
	21	80-6708011	1	Hinge
	22		1	Split pin 4h25.019 GOST 397-79
	23	70-6708189-01	1	Axle
	24	80V-6804020	1	Panel
	25	80V-6804007	1	Pad
	26	80V-6804005	1	Frame
	27	PPR26-03	1	Profile

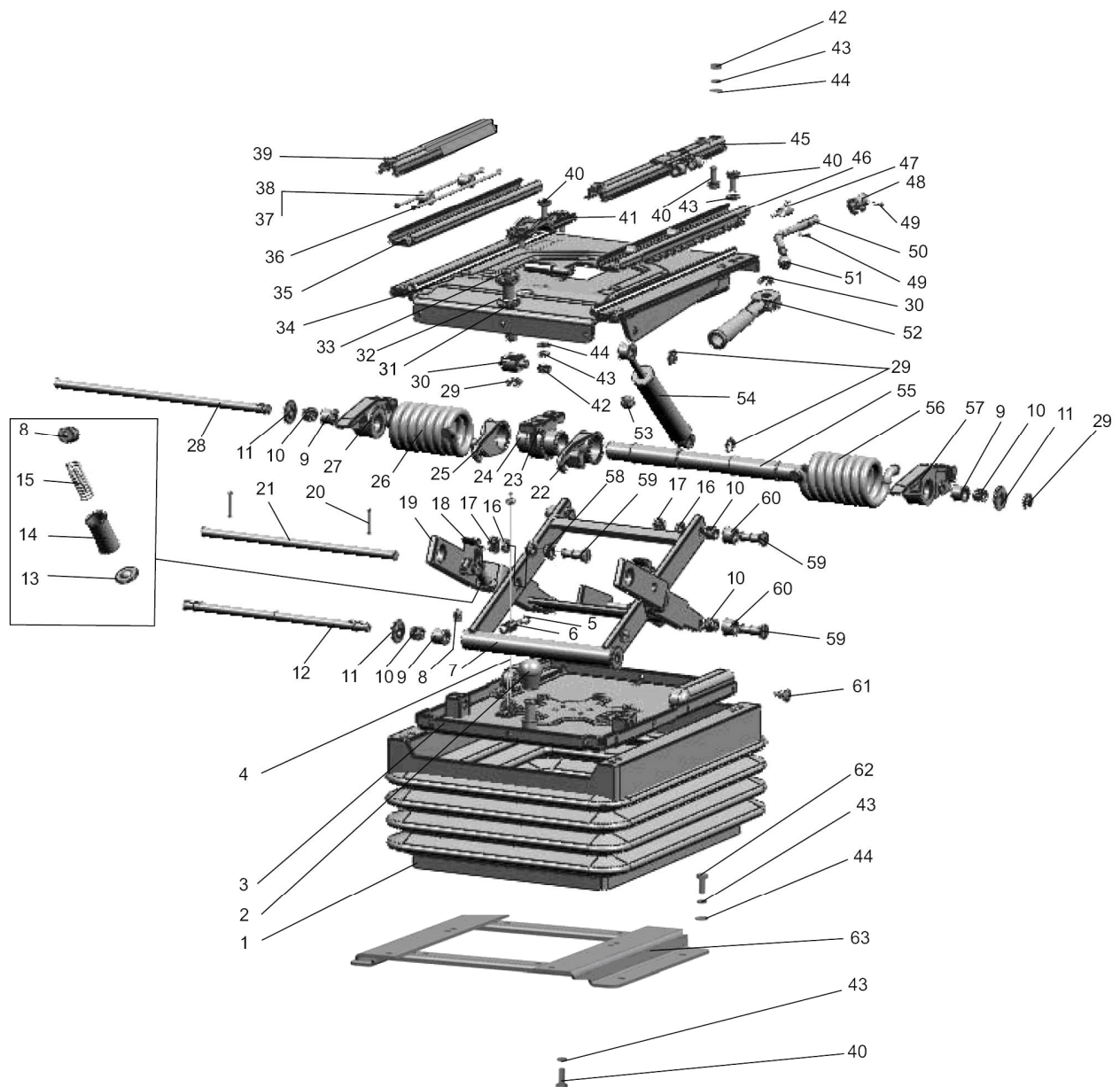


Fig.68.3 Seat suspension.

Group 68. Driver's seat
Subgroup 6801. Seat suspension

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
68.3		80-6801500	1	Suspension
	1	80V-6800108	1	Cover
	2	A61.01.014	1	Handle
	3	80V-6801560	1	Base
	4	80V-6801240	1	Cord
	5	V.M5-6gh16.58.019 GOST 17473-80	2	Screw
	6	70-4803023	1	Clutch
	7	80V-6801590-B	1	Frame
	8	80V-6801521	4	Limit stop
	9	80V-6801512	4	Bushing
	10		8	Bearing K12h16h13E GOST 24310-80
	11	80V-6801033	4	Washer
	12	80V-6801508	1	Axle
	13	80V-6801519	2	Thrust collar
	14	80V-6801518	2	Sleeve
	15	80V-6801530-B	2	Spring
	16		6	Washer 10 OT OST 37.001.115-75
	17		6	Nut M10-6N.04.019 GOST 5919-73
	18	80V-6801581	2	Detent
	19	80V-6801570	1	Frame
	20		2	Split pin 4h22.019 GOST 397-79
	21	80V-6801012	1	Axle
	22	80V-6801004-01	1	Hook
	23	80V-6801001	1	Bracket
	24	80V-6801003	1	Axle
	25	80V-6801004	1	Hook
	26	80V-6801002	1	Spring
	27	80V-6801507	1	Sector segment
	28	80V-6801506	1	Axle
	29	70-6801307	5	Washer
	30	80V-6801023	1	Nut
	31	80V-6801008	1	Washer
	32		22	Ball 3,0-100 GOST 3722-81
	33	80V-6801152	1	Screw
	34	80-6801550	1	Panel
	35	80-6800104	1	Guide
	36	70-6804394-B	4	Rod
	37	70-6804391	4	Roller
	38		4	Ring 010-015-30-2-3 GOST 18829-73/GOST 9833-73
	39	80-6800110-01	1	Rail
	40	M8-6gh20.88.35.019 GOST 7796-70	15	Bolt
	41	80V-6801031	1	Stiffener
	42	M8-6N.04.019 GOST 5916-70	5	Nut
	43		19	Washer 8T OST 37.001.115-75
	44		14	Washer S 8.01.019 GOST 11371-78
	45	80-6800110	1	Rail
	46	80-6800120	1	Guide
	47	80-6800103	1	Spring
	48	80-6800102	1	Stop member
	49	70-4202431-01	2	Dowel
	50	80-6800101	1	Handle
	51	70-6801082	1	Handle

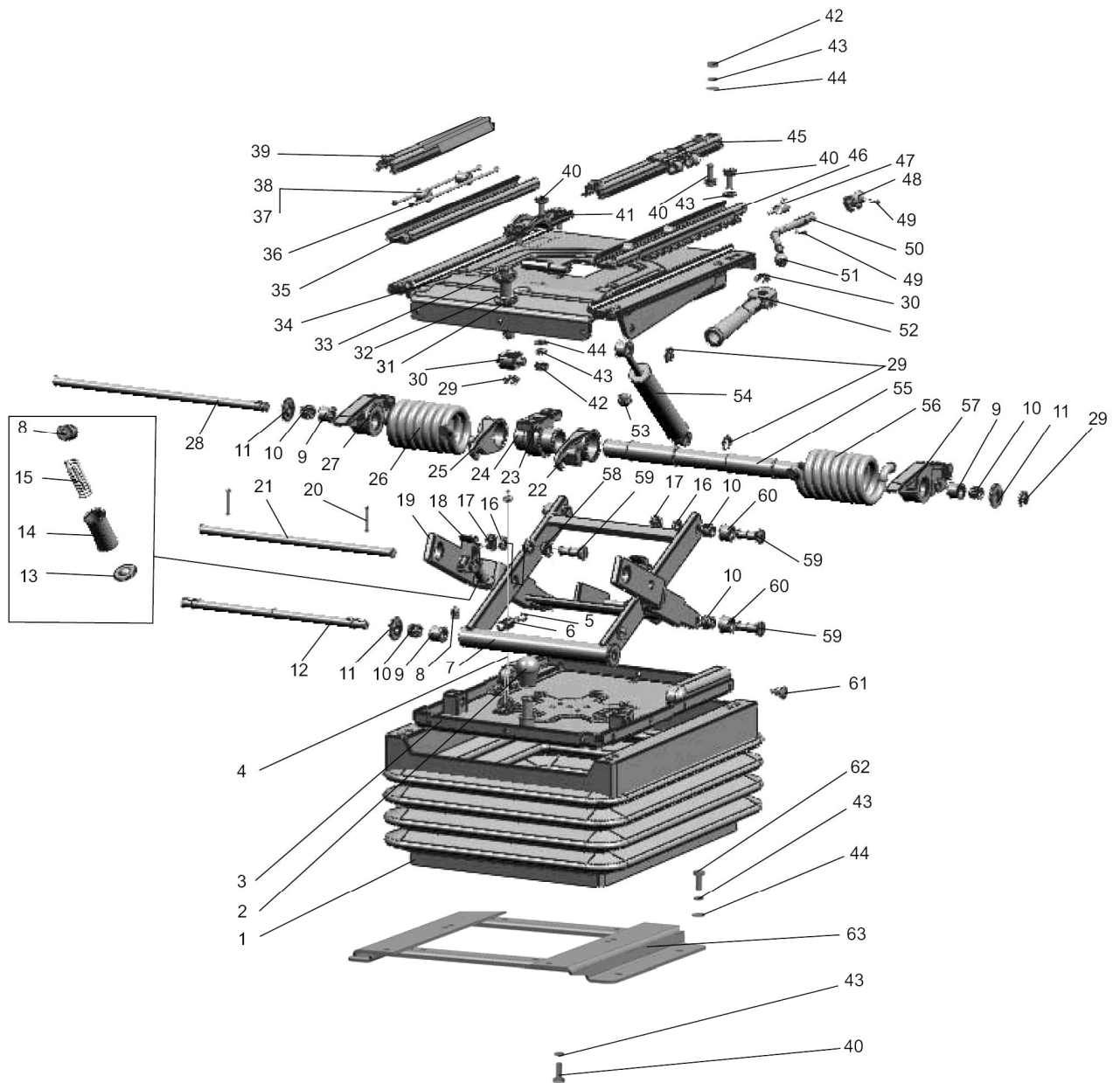


Fig.68.3 Seat suspension.

Group 68. Driver's seat
Subgroup 6801. Seat suspension

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
68.3	52	80V-6801150	1	Handle
	53	80-6801531	6	Dashpot
	54	80-6809100-11	1	Shock adsorber
	55	80V-6801505	1	Shaft
	56	80V-6801002-01	1	Spring
	57	80V-6801507-01	1	Sector segment
	58	80V-6801526	4	Bushing
	59	80V-6801528	6	Axle
	60	80V-6801032	4	Roller
	61	80-6800006	20	Button
	62	M8-6gh30.88.35.019 GOST 7796-70	4	Bolt
	63	80V-6807200	1	Bracket

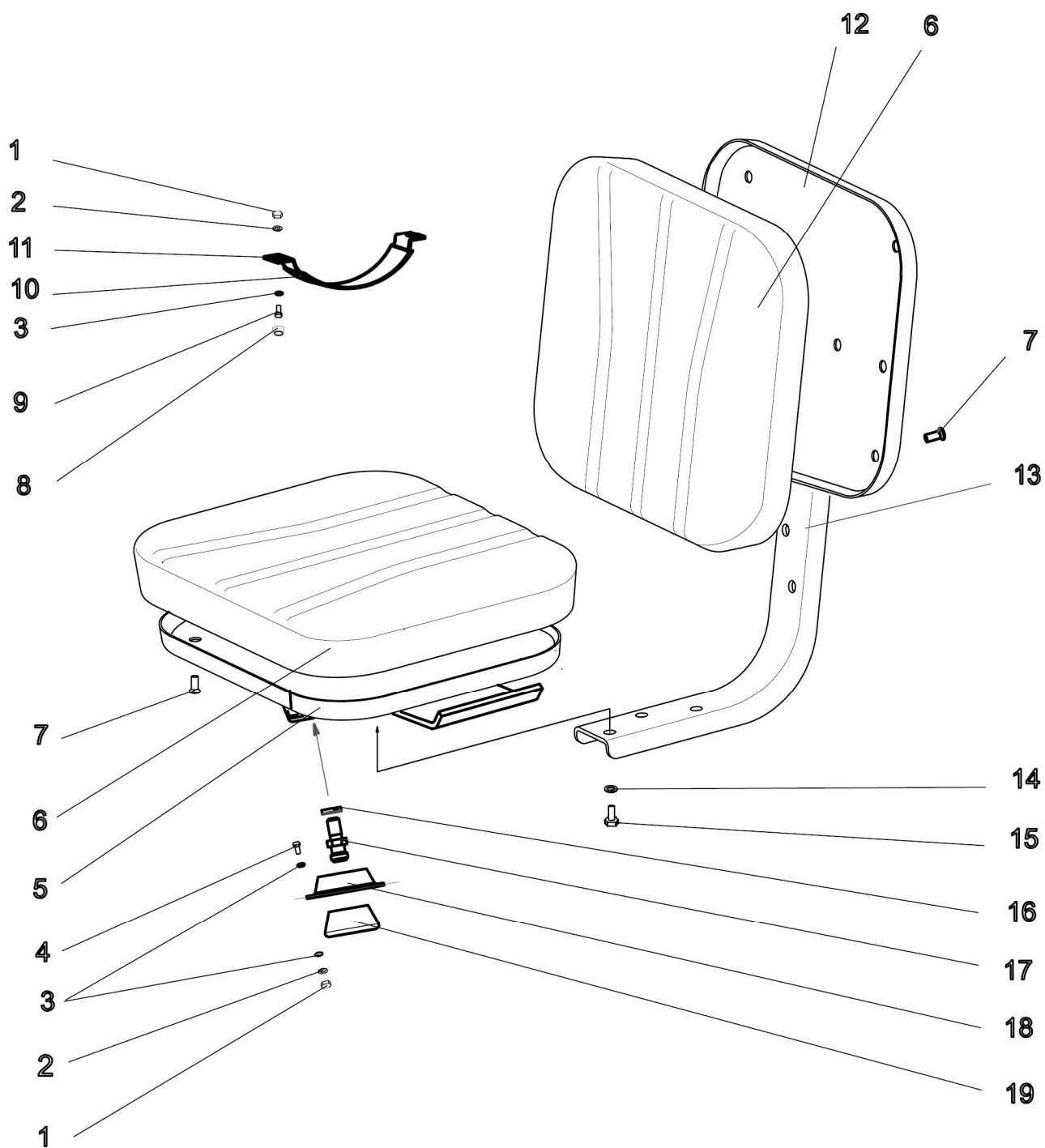


Fig.68.4. Additional seat.

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1221.5

Group 68. Driver's seat
Subgroup 6809. Additional seat

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
68.4		1221-6809005	1	Additional seat
	1		6	Nut M6-6N.6.019 GOST 5915-70
	2		6	Washer 6 T OST 37.001.115-75
	3		10	Washer S.6.01.019 GOST 11371-78
	4		4	Bolt M6-6gh30.88.35.019 GOST 7798-70
	5	1221-6809020	1	Base
	6	2522-6809070	2	Pad
	7		4	Screw V.M8-6gh16.58.019 GOST 17475-80
	8	A30.04.017	2	Cap
	9		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	10	A37.08.019	1	Handrail sealant
	11	A37.07.011	1	Band
	12	2522-6809060	1	Base
	13	2522-6809006	1	Framework
	14		6	Bolt M8-6gh16.88.35.019 GOST 7796-70
	15		6	Washer 8T OST 37.001.115-75
	16		2	Washer 10 OT OST 37.001.115-75
	17	70-6700031	2	Holder
	18	70-6700116	2	Strap
	19	50-3711038	2	Headlight support

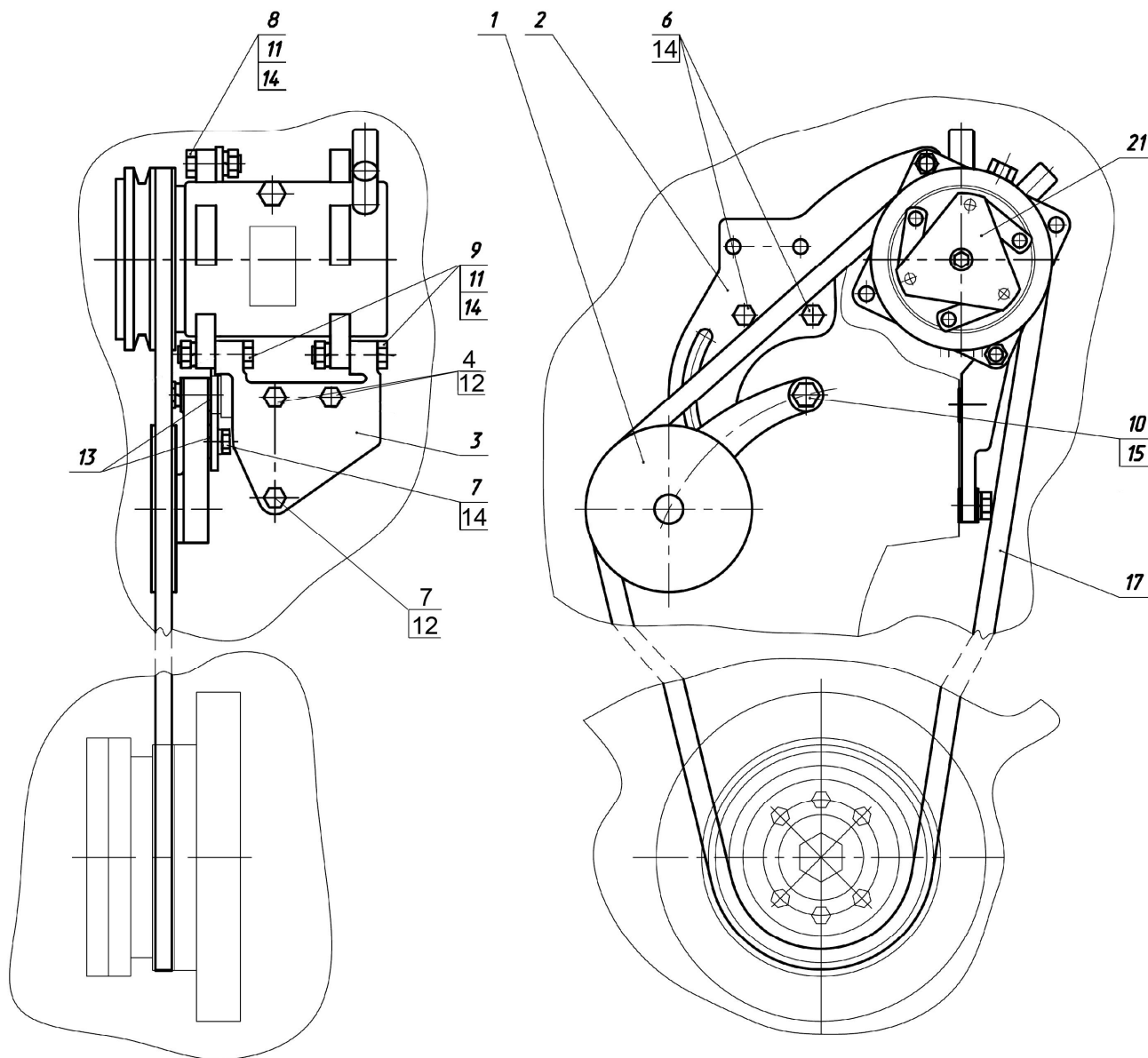


Fig. 81.1 Compressor assembly

Group 81. Air-conditioning system
Subgroup 8114. Compressor assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
81.1		1523-8114020	1	Compressor assembly
	1	1221-8114070	1	Tension lever
	2	1523-8114021	1	Plate
	3	1221-8114022	1	Bracket
	4	260-3701068	2	Special bolt
	6		2	Bolt M10-6gh16.88.35.019 GOST 7796-70
	7		2	Bolt M10-6gh30.88.35.019 GOST 7796-70
	8		1	Bolt M10-6gh35.88.35.019 GOST 7796-70
	9		2	Bolt M10-6gh50.88.35.019 GOST 7795-70
	10		1	Bolt M12-6gh35.109.40H.019 GOST 7798-70
	11		3	Nut M10-6N.6.019 GOST 5915-70
	12		6	Washer S 10.01.019 GOST 11371- 78
	13		2	Washer S 12.01.019 GOST 11371- 78
	14		9	Washer 10 OT OST 37.001.115-75
	15		1	Washer 12 OT OST 37.001.115-75
	17	8114.003	1	Belt SPA/S-1650 or Belt SPA-1657 or Belt SPA-1650

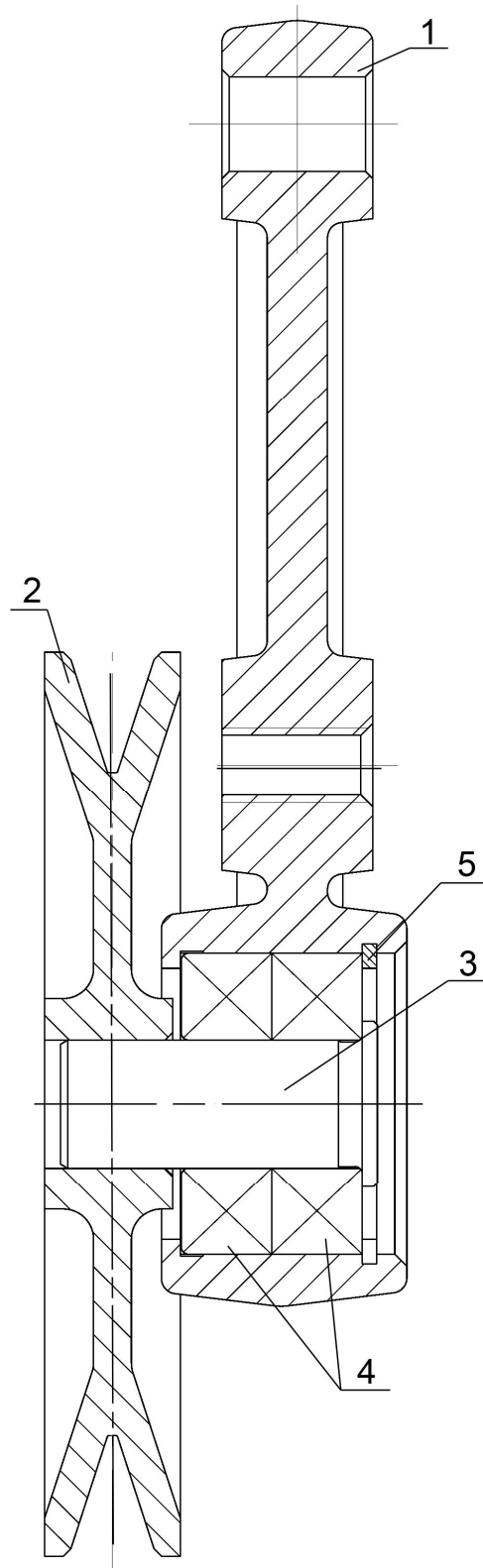


Fig. 81.2 Tension lever

Group 81. Air-conditioning system
Subgroup 8114. Tension lever

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
81.2		1221-8114070	1	Tension lever
	1	1221-8114071	1	Tension lever
	2	1221-8114072	1	Pulley
	3	260-1310019	1	Pin
	4		2	Bearing 180203 K1S23 GOST 8882-75
	5		1	Ring S40 GOST 13943-86

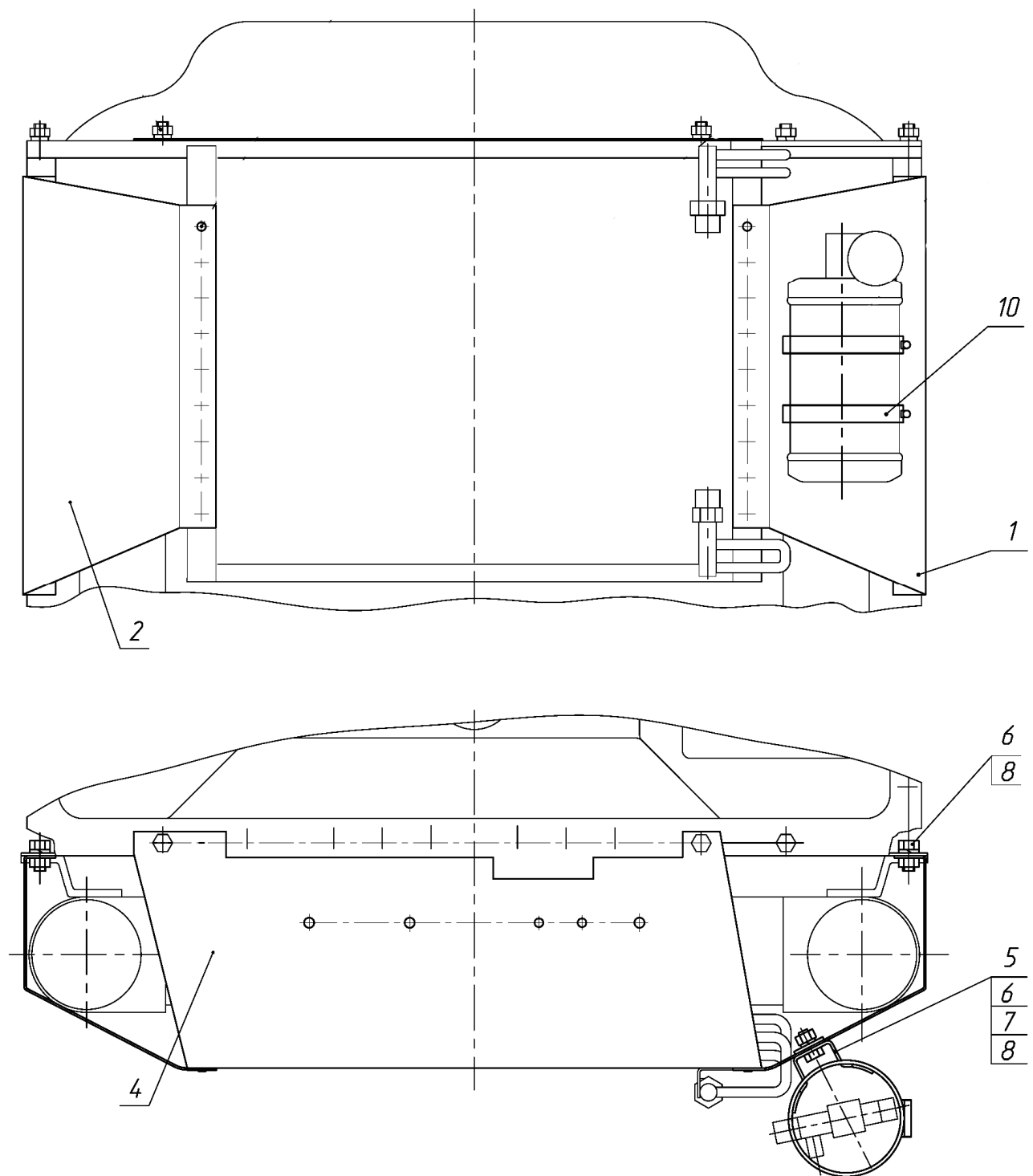


Fig. 81.3 Condenser assembly

BELARUS 1221.5

Group 81. Air-conditioning system Subgroup 8112. Condenser assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
81.3		1523-8112010	1	Condenser assembly
	1	1523-8112020	1	Bracket
	2	1523-8112020-01	1	Bracket
	4	1523-8112011	1	Plate
	5	3022-8112011	1	Bracket
	6		5	Bolt M8-6gh16.88.35.019 GOST 7796-70
	7		1	Nut M8-6N.6.019 GOST 5915-70
	8		5	Washer 8T OST 37.001.115-75
	10		2	Clamp "NORMA" TORRO 70-90/9- C6W or Clamp/Clamp NORMA TORRO 70- 90/971

* For tractor BELARUS – 1523.3

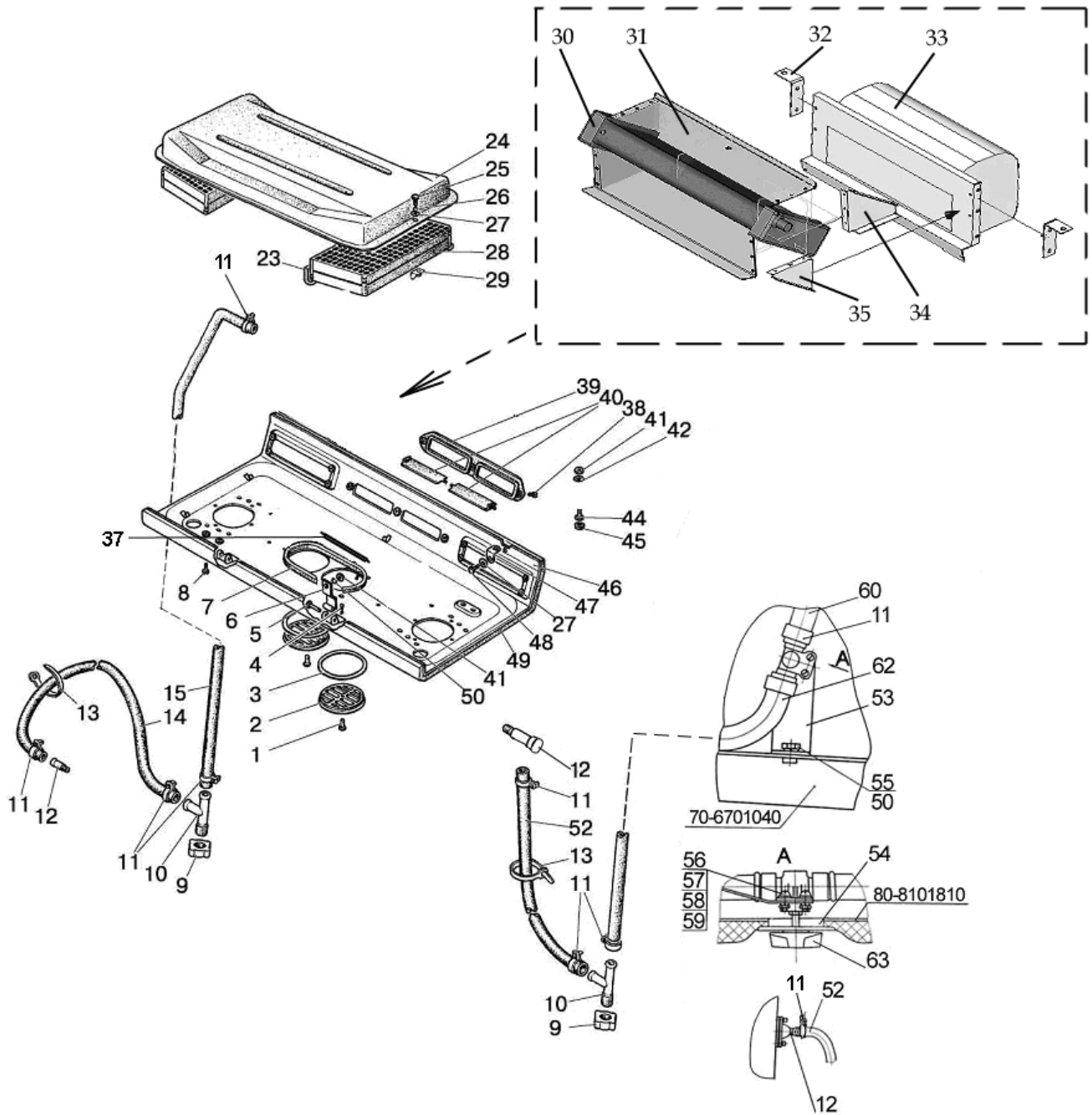


Fig.81.4. Heater

Group 81. Heater
Subgroup 8101. Heater

Fig.	Pos.Nd	Designation	Q-ty	Description
81.4		80-8101200		Heater(23-35)
		80-8101810		Panel (1-8, 27, 37-40, 46, 47-49)
		80-8101830		Heater fittings (9-15, 43,51,52)
		1522-8101100-01		Fan-heater (30-35)
	1		2	Pin 6h18 OST 37.001.163-75
	2	150.95.301	2	Air-distributor
	3	80-8100013	2	Strap
	4		2	Split pin 2h12.019 GOST 397-79
	5	50-8400031	2	Axle
	6	80-8100048	2	Hinge
	7	80-8101714-07	1	Sealant
	8		2	Split pin 2h12.019 GOST 397-79
	9	80-8100052-A	2	Plug
	10	80-8100051	2	T-piece
	11		10	Clamp with worm thread 20-32
	12	80-8100023	2	Fitting
	13	80-3723045-01	3	Collar
	14	80-8102015-02	1	Hose L=1740 mm
	15	80-8101015	1	Hose L=2100 mm
	23	80-8101714-04	2	Sealant
	24	80-8101760	1	Cover
	25		2	Bolt M6-6gh20.88.35.019 GOST 7798-70
	26		11	Washer 6T OST 37.001.115-75
	27		4	Washer S 6.01.019 GOST 6958-78
	28	80-8104070	2	Filter
	29	80-8101820	1	Suspension
	30	1522-8101060/ 90-8101060	1	Heat exchanger
	31	1522-8101104	1	Cover
	32	80-8101201	2	Bracket
	33	EVI12-1 02	1	Fan
	34	1522-8101101	1	Gusset
	35	1522-8101102	1	Gusset
	37	80-8100014-01	1	Rod
	38	V.M6-6gh20.58.019 GOST 17474-80	6	Screw
	39	80-8100011-B	1	Cover
	40	80-8100012	2	Screen
	41		4	Nut M8-6N.6.019 GOST 5915-70
	42		2	Washer S 8.01.019 GOST 6958-78
	44	M8-6gh35.88.35.019 GOST 7796-70	2	Bolt
	45	A30.04.017-01	2	Cap
	46	80-8100100	1	Panel
	47	70-6702111	2	Angle piece
	48		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	49	80-8101713	1	Lining
	50		4	Washer 8T OST 37.001.115-75
	52	80-8102015-03	1	Hose L=550 mm
	53	80-8101717	1	Bracket
	54	80-8101811	1	Strap

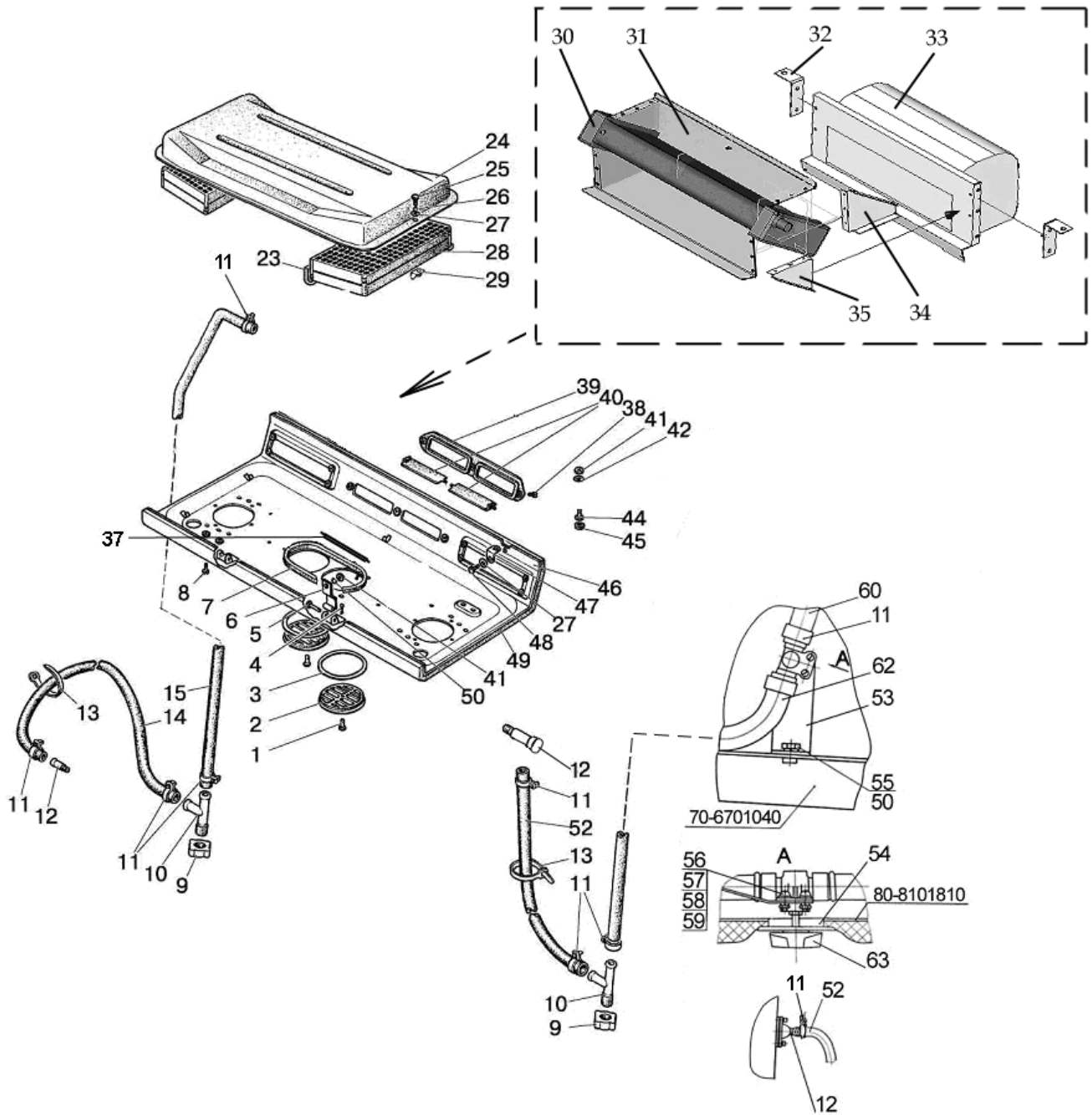


Fig.81.4. Heater

Group 81. Heater
Subgroup 8101. Heater

Fig.	Pos.No	Designation	Q-ty	Description
81.4	55		2	Bolt M8-6gh20.88.35.019 GOST 7796-70
	56		2	Screw V.M5-6gh10.58.019 GOST 17473-80
	57		2	Nut M5-6N.6.019 GOST 5915-70
	58		2	Washer S 5.01.019 GOST 11371-78
	59		2	Washer 5T OST 37.001.115-75
	60	822-8101021-02	1	Hose
	62	80-8102015-01	1	Hose L=1680 mm
	63	PO 11	1	Valve

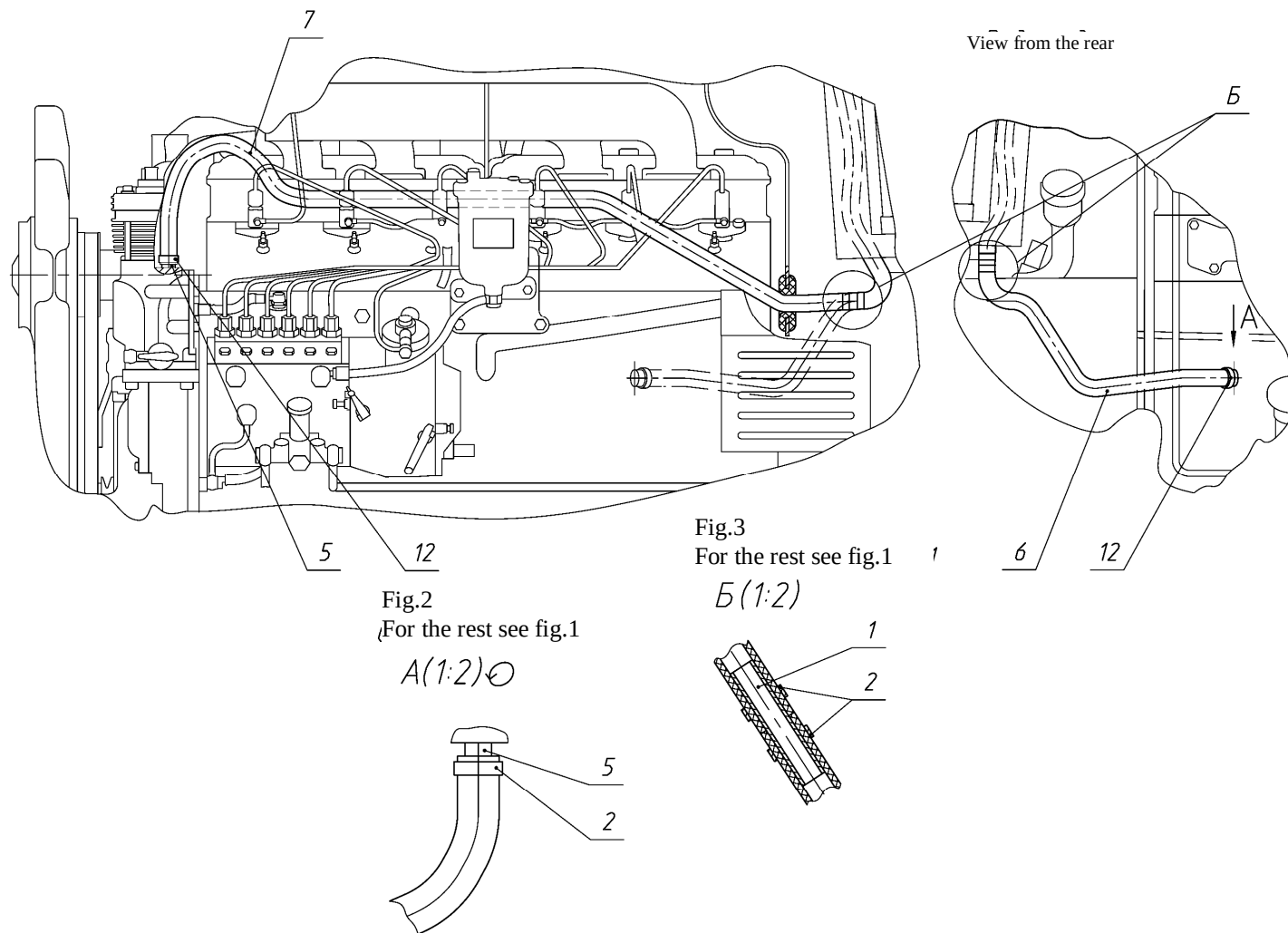


Fig. 81.5 Heater fittings

Group 81. Air-conditioning system
Subgroup 8101.Heater fittings

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
81.5		1221-8101830	1	Heater fittings
	1	70-6702306	2	Bushing
	5	80-8100023	2	Fitting
	7	80-8101015-01	1	Hose (L=1680 mm)
	8	1522-8101012-04	1	Hose (L=640)

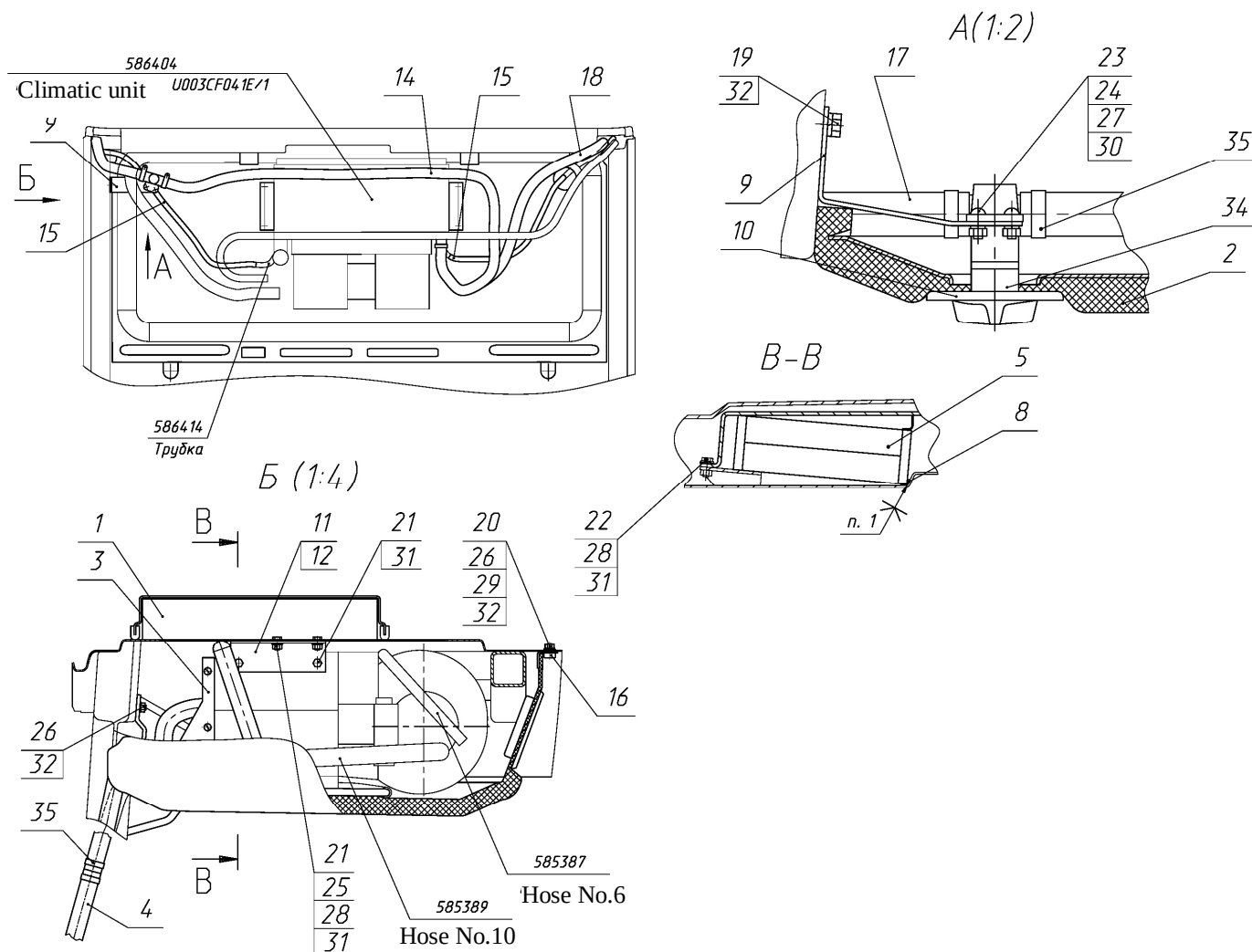


Fig. 81.6 Heater-cooler assembly

Group 81. Air-conditioning system
Subgroup 8101. Heater-cooler assembly

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
81.6		1221.1-8101010	1	Heater-cooler assembly
	1	80-8101760	1	Cover
	2	80-8101810-02	1	Panel
	3	80-8101930	1	Case
	4	80-8101830-02	1	Heater fittings
	5	80-8104070	2	Filter
	8	80-8101714-04	1	Sealant
	9	80-8101717	1	Bracket
	10	80-8101811	1	Strap
	11	80-8101941	1	Angle plate
	12	80-8101941-01	1	Angle plate
	14	1522-8101012-03	1	Hose (L = 1240 mm)
	15	3022-8101012	2	Pipe
	16	A30.04.017-01	2	Cap
	17	80-8101831	1	Hose (L = 1680 mm)
	18	80-8101832	1	Hose (L = 2100 mm)
	19		2	Bolt M8-6gh20.88.35.019 GOST 7796-70
	20		2	Bolt M8-6gh35.88.35.019 GOST 7796-70
	21		8	Bolt M6-6gh16.88.35.019 GOST 7798-70
	22		2	Bolt M6-6gh20.88.35.019 GOST 7798-70
	23		2	Screw V.M5-6gh10.58.019 GOST 17473-80
	24		2	Nut M5-6N.6.019 GOST 5915-70
	25		4	Nut M6-6N.6.019 GOST 5915-70
	26		2	Nut M8-6N.6.019 GOST 5915-70
	27		2	Washer S.5.01.019 GOST 11371-78
	28		6	Washer S.6.01.019 GOST 11371-78
	29		2	Washer S.8.01.019 GOST 11371-78
	30		2	Washer 5 T OST 37.001.115-75
	31		10	Washer 6 T OST 37.001.115-75
	32		4	Washer 8T OST 37.001.115-75
	34	917511	1	Valve PO 11
	35		6	Clamp/Clamp NORMA TORRO 16-27/971 or Clamp "NORMA" TORRO 16-25/9-C6W
	36		8	Screw 4h16.019 TU BY 400024166.016-2009

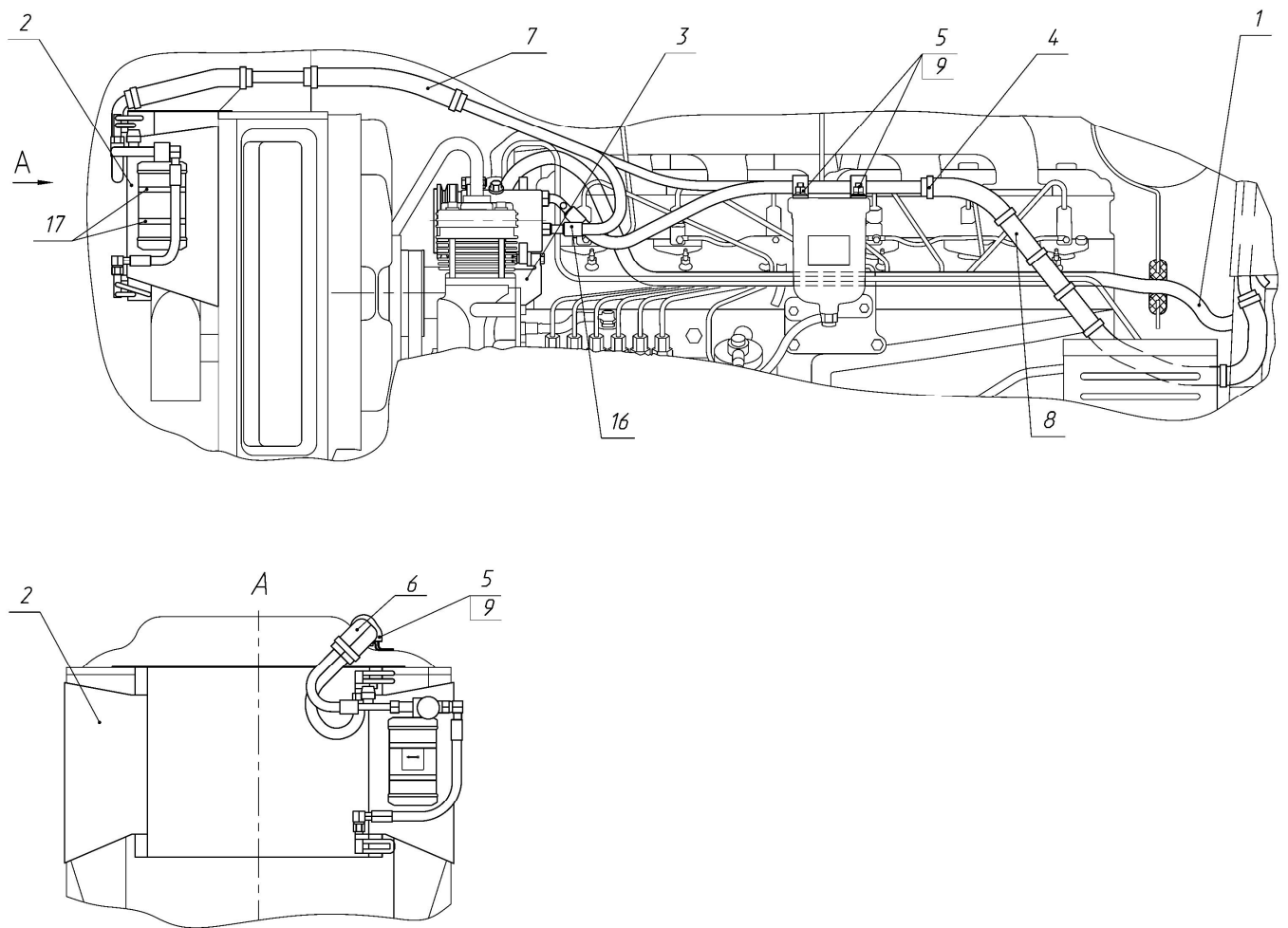


Fig. 81.7 Air-conditioning system assembly

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Group 81. Air-conditioning system
Subgroup 8101. Air-conditioning system assembly.

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
81.7		1221.1-8100005	1	Air-conditioning system assembly
	1	1221.1-8101010	1	Heater-cooler assembly
	2	1523-8112010	1	Condenser assembly
	3	1523-8114020	1	Compressor assembly
	4	80-3723045-01	20	Collar
	5	923-3723012	6	Clamp
	6	2822DTS-8100012	1	Hose
	7	2822DTS-8100013-01	2	Hose
	8	2822DTS-8100013-03	2	Hose
	9	3022-8100011	6	Pipe
	16		1	Conditioner MT8100000-02
	17		2	Clamp "NORMA" TORRO 70-90/9-C6W or Clamp/Clamp NORMA TORRO 70-90/971

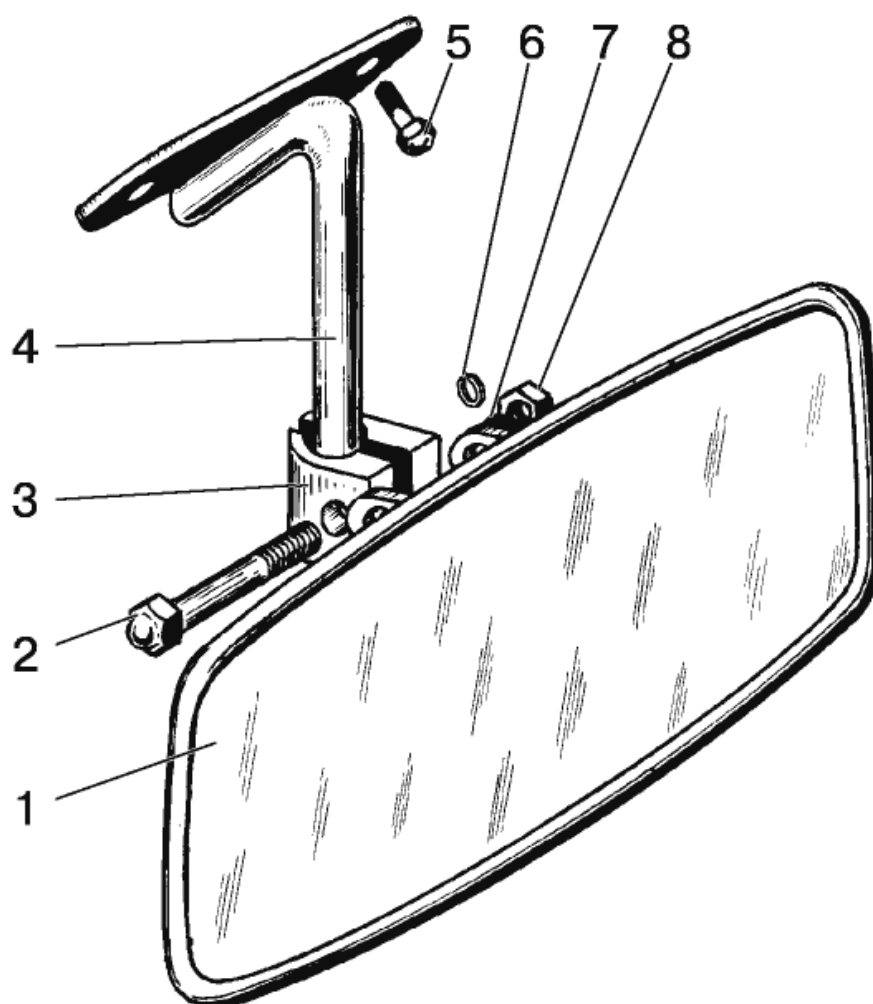


Fig. 82.1. Inside rear-view mirror

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Group 82. Cab accessories
Subgroup 8201. Inside rear-view mirror

Fig.	Pos.	Designation	Q-ty	Description
82.1		80-8201090	1	Inside mirror assy (1-7)
	1	80-8201035	1	Inside mirror
	2		1	Bolt M8-6gh30.88.35.019 GOST 7796-70
	3	A30.04.071	1	Clamp
	4	80P-8201025	1	Bracket
	5		2	Screw V.M6-6gh20.58.019 GOST 17473-80
	6		1	Washer 8T OST 37.001.115-75
	7		1	Washer S 8.01.019 GOST 11371-78
	8		1	Nut M8-6N.6.019 GOST 5915-70
	9		2	Washer S 6.01.019 GOST 11371-78
	10		2	Washer 6T OST 37.001.115-75

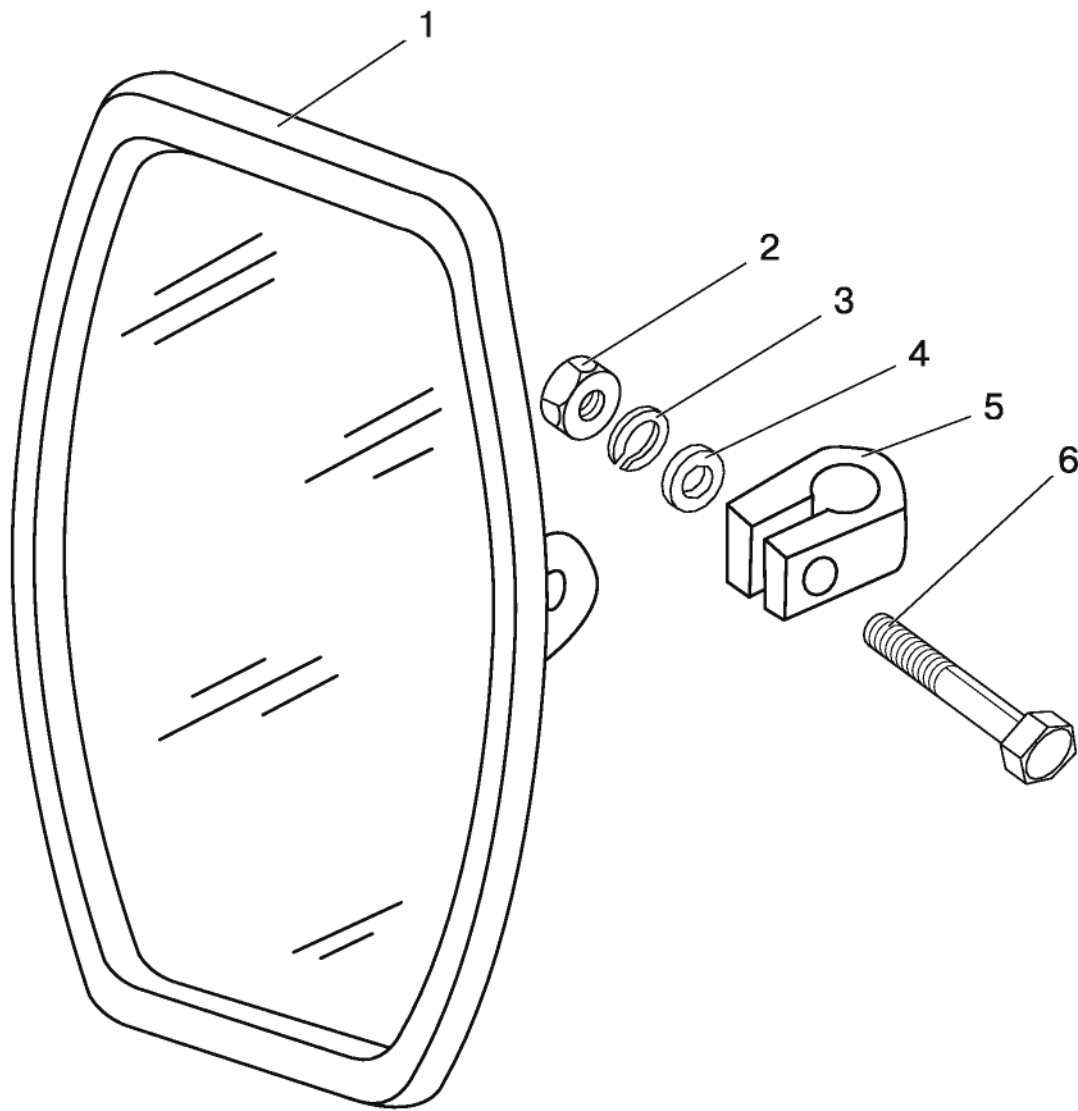


Fig. 82.2. Lateral rear-view mirror

Group 82. Cab accessories
Subgroup 8201. Outer rear-view mirror

Fig.	Pos.	Designation	Q-ty	Description
82.2	1	80-8201055	2	Mirror
	2		2	Nut M8-6N.6.019 GOST 5915-70
	3		2	Washer 8T OST 37.001.115-75
	4		2	Washer S 8.01.019 GOST 11371-78
	5	A30.04.051	2	Clamp
	6		2	Bolt M8-6gh40.88.35.019 GOST 7795-70

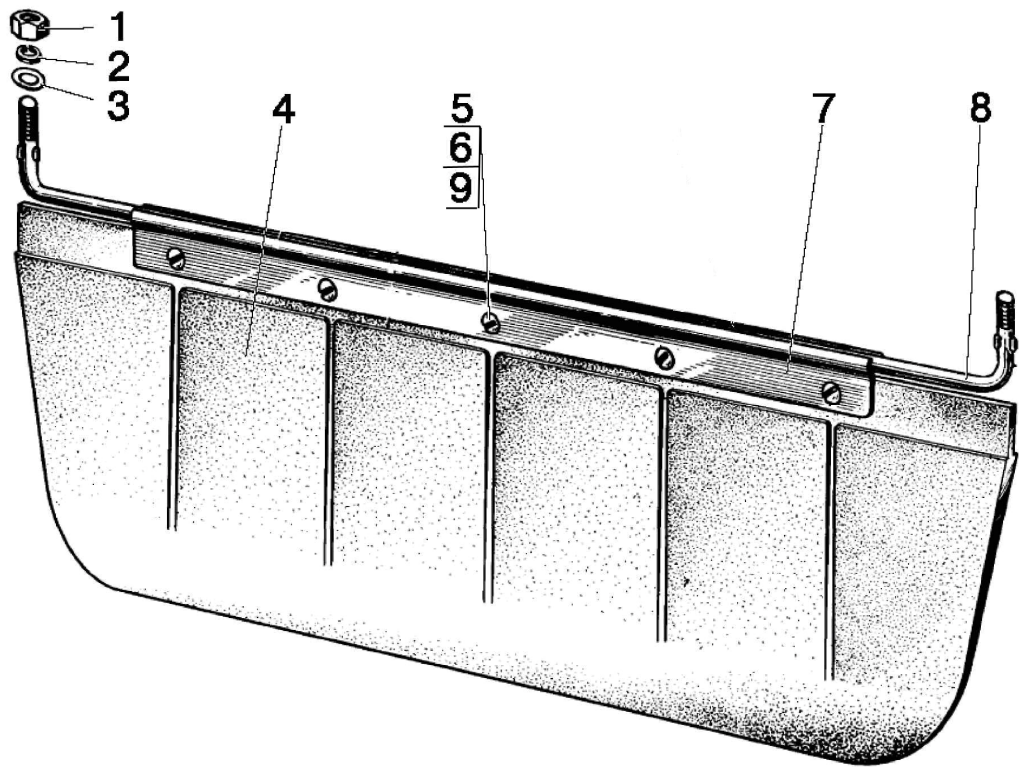


Fig. 82.3. Sun visor

Group 82. Cab accessories
Subgroup 8204. Sun visor

Fig.	Pos.	Designation	Q-ty	Description
82.3		80P-8204010-01	1	Sun visor (4-8)
	1		2	Nut M6-6N.6.019 GOST 5915-70
	2		2	Washer 6T OST 37.001.115-75
	3		2	Washer S 6.01.019 GOST 6958-78
	4	70-8204011-A	1	Sun visor
	5		5	Screw V.M4-6gh10.58.019 GOST 17473-80
	6		5	Nut M4-6N.6.019 GOST 5927-70
	7	70-8204014	2	Holder
	8	80P-8204011-01	1	Axle
	9		5	Washer 4 OST 37.001.115-75

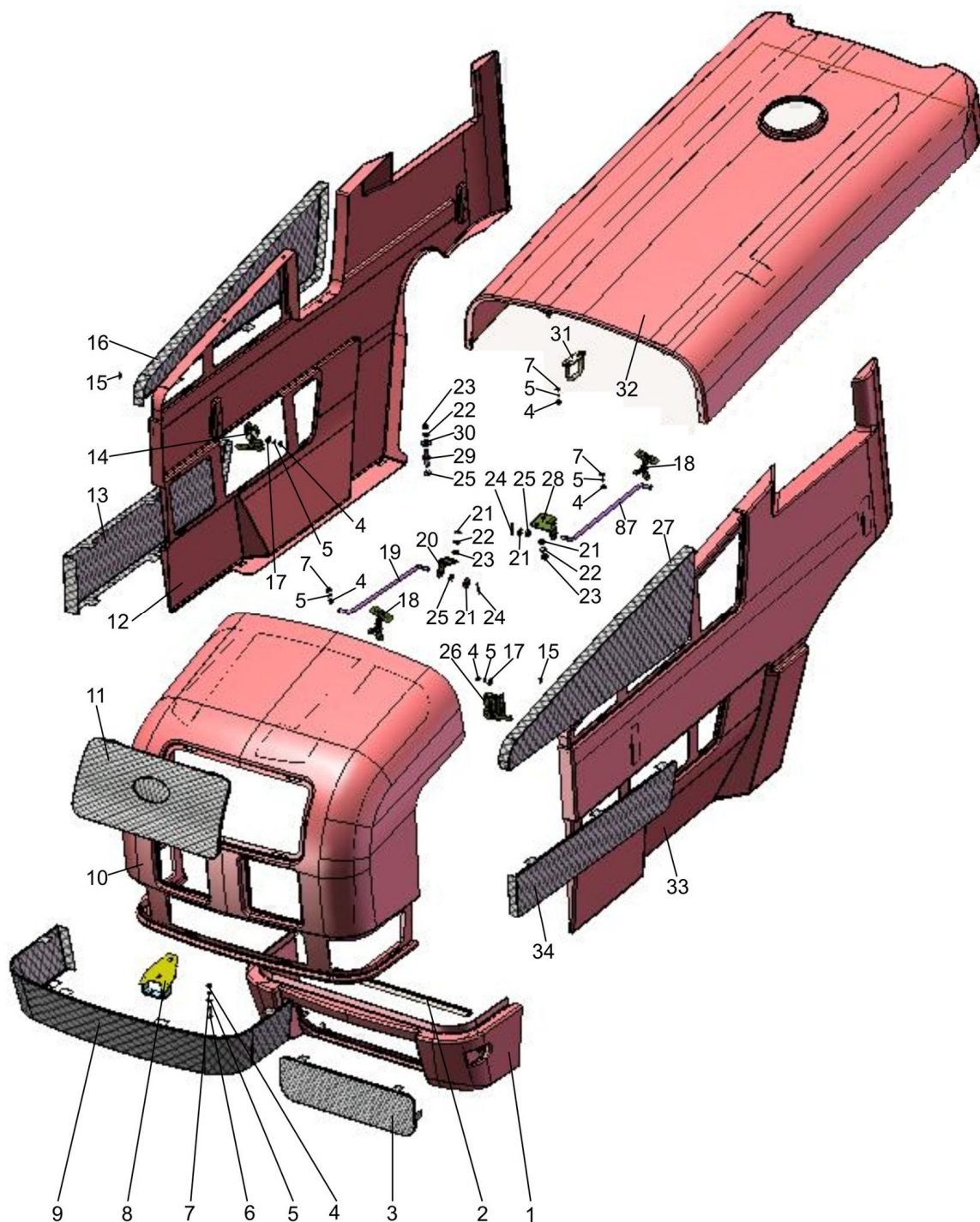


Fig. 84.1 Facing

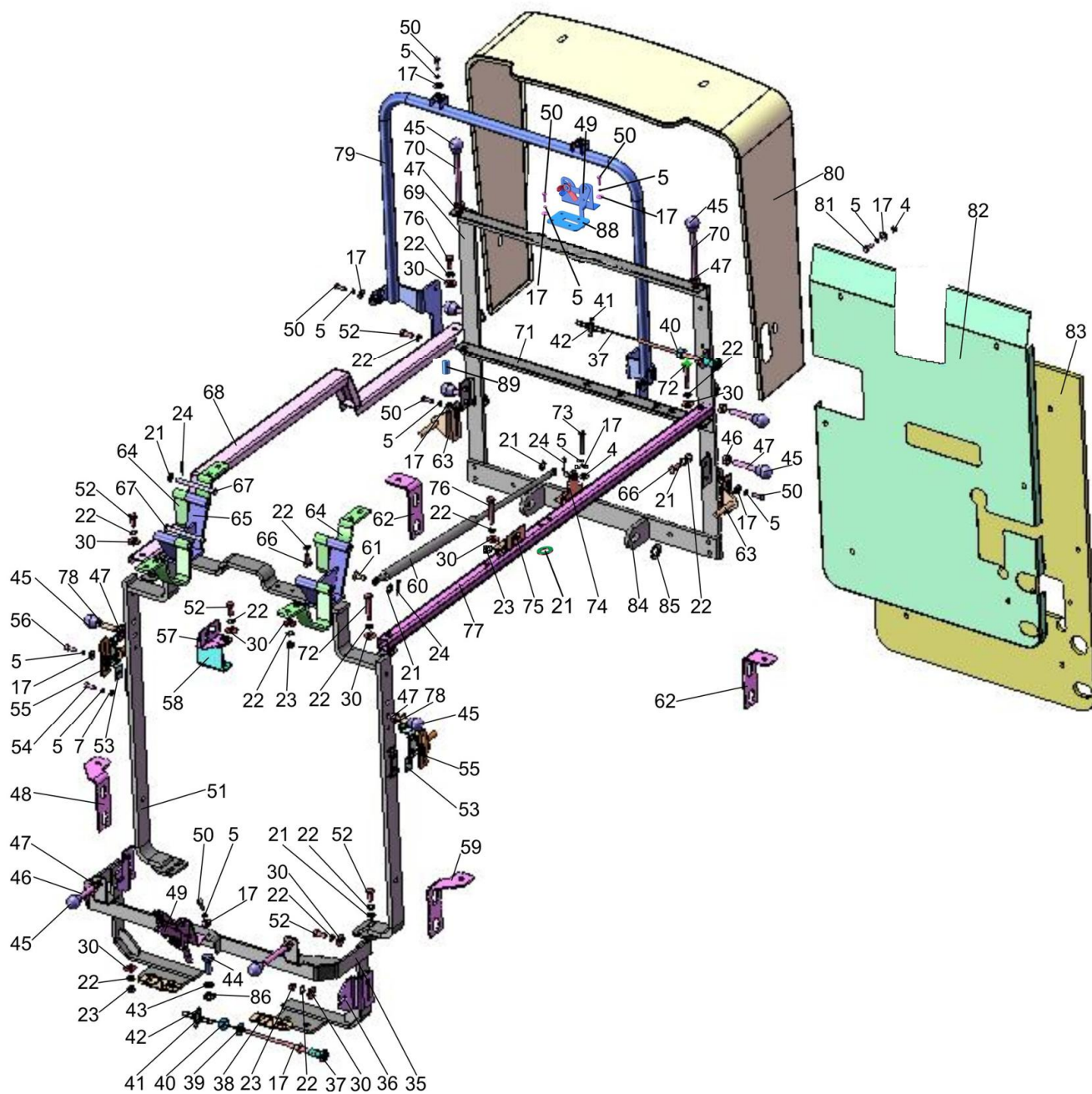


Fig. 84.2 Facing

Group 84. Hood and fenders
Subgroup 8400. Facing

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
84.1 84.2	1	8400.001	1	Apron OT-1523.25.000
	2	A 37.08.045	1	Sealant
	3	923-8401088	1	Grille
	4		24	Nut M6-6N.6.019 GOST 5915-70
	5		46	Washer 6T OST 37.001.115-75
	6		2	Screw V.M6-6gh40.58.019 GOST 17475-86
	7		12	Washer S6.01.019 GOST 11371-78
	8	1523-8402420	1	Clip
	9	1523-8401087	1	Grille
	10	8400.002	1	Mask OT-1523.15.000
	11	950.3-8401090	1	Grille
	12	685492	1	Side member OT-1523.10.000-01
	13	1523-8402318	1	Grille
	14	923-8402410-01	2	Lock
	15*	5842.01	8	Screw M4.2h13
				Tapping screw WFS-4213
				Screw 4.2h13.TS6.cr.
				TU VY400024166.012-2008
	16	1523.4-8402322	1	Grille
	17		35	Washer S6.01.019 GOST 6958-78
	18	950.3-8400050	2	Clip
	19	90-8400070-01	1	Rod
	20	950.3-8400101	1	Bracket
	21		20	Washer S8.01.019 GOST 11371-78
	22		50	Washer 8T OST 37.001.115-75
	23		26	Nut M8-6N.6.019 GOST 5915-70
	24		8	Split pin 3.2h25.019 GOST 397-79
	25	549A-1305044	6	Ring
	26	923-8402410	2	Lock
	27	1523-8402319	1	Grille
	28	950.3-8400102	1	Bracket
	29	923-8400011	4	Detent
	30		32	Washer S8.01.019 GOST 6958-78
	31	1221.5-8402420	1	Clip
	32	8400.003	1	Hood OT-1523.20.000
	33	8400.004	1	Side member OT-1523.05.000
	34	950.3-8402318	1	Grille
	35	1523-8402030	1	Frame
	36	1523-8402041	2	Bracket
	37	822-8400080-03	2	Control cable
	38	1523-8402039	2	Bracket
	39		1	Washer S12.01.019 GOST 11371-78
	40		2	Nut M12h1.25-6N.6.019 GOST 5915-70
	41		4	Screw V.M5-6gh12.58.019 GOST 17473-80
	42	70-4803023	2	Clutch
	43		4	Washer 10 OT OST 37.001.115-75
	44		4	Bolt M10-6gh30.88.35.019 GOST 7796-70
	45	70-3401093	10	Lever end

* on availability

**Group 84. Hood and fenders
Subgroup 8400. Facing**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
84.1 84.2	46	923-8400033	6	Rod
	47		10	Nut M10-6N.6.019 GOST 5915-70
	48	920-8400140	1	Support
	49	80-8402410	2	Lock
	50		14	Bolt M6-6gh16.88.35.019 GOST 7798-70
	51	1523-8402060	1	Arc
	52		17	Bolt M8-6gh20.88.35.019 GOST 7796-70
	53	1523-8402085	2	Bracket
	54		4	Bolt M6-6gh14.88.35.019 GOST 7798-70
	55	1321-8402095-B	2	Detent
	56		4	Bolt M6-6gh20.88.35.019 GOST 7798-70
	57	923-8400060	1	Bracket
	58	1523-8400170	1	Support
	59	920-8400140-01	1	Support
	60*	6700.01	1	Gas strut 11.6.6308010 TU RB 500032891.095-2003
				Airlift PLA 21054A
				Airlift 049670
	61	80-6707096	1	Axle
	62	923-8400140-01	2	Support
	63	923-8402095-B	2	Detent
	64	1523-8400045	4	Hinge
	65	923-8400040	2	Support
	66		8	Bolt M8-6gh30.88.35.019 GOST 7796-70
	67	923-8400031	4	Axle
	68	1222.4-8402045	1	Buckle
	69	1221.4-8402070	1	Post
	70	923-8400033-02	2	Rod
	71	1523-8402110	1	Strip
	72		2	Bolt M8-6gh40.88.35.019 GOST 7795-70
	73		2	Bolt M6-6gh45.88.35.019 GOST 7795-70
	74	80-6708225	1	Bracket
	75	90-8400012-B	1	Bracket
	76		3	Bolt M8-6gh50.88.35.019 GOST 7795-70
	77	1221.4-8400086	1	Buckle
	78		2	Stud M10-3p/6gh45.66.019 GOST 22034-76
	79	1221.3-8402090-B	1	Arc
	80	1523-8402082	1	Shell
	81		6	Bolt M6-6gh25.88.35.019 GOST 7798-70
	82	1221.3-8402101-01	1	E-Valve
	83	1221.3-8402102-01	1	Sealant
	84	1221.3-8402075	1	Support
	85		2	Washer S16.01.019 GOST 11371-78
	86		4	Washer S10.01.019 GOST 6958-78
	87	90-8400070	1	Rod
	88	1221.5-8402075	1	Plate
	89	2522-6702066	1	Bushing

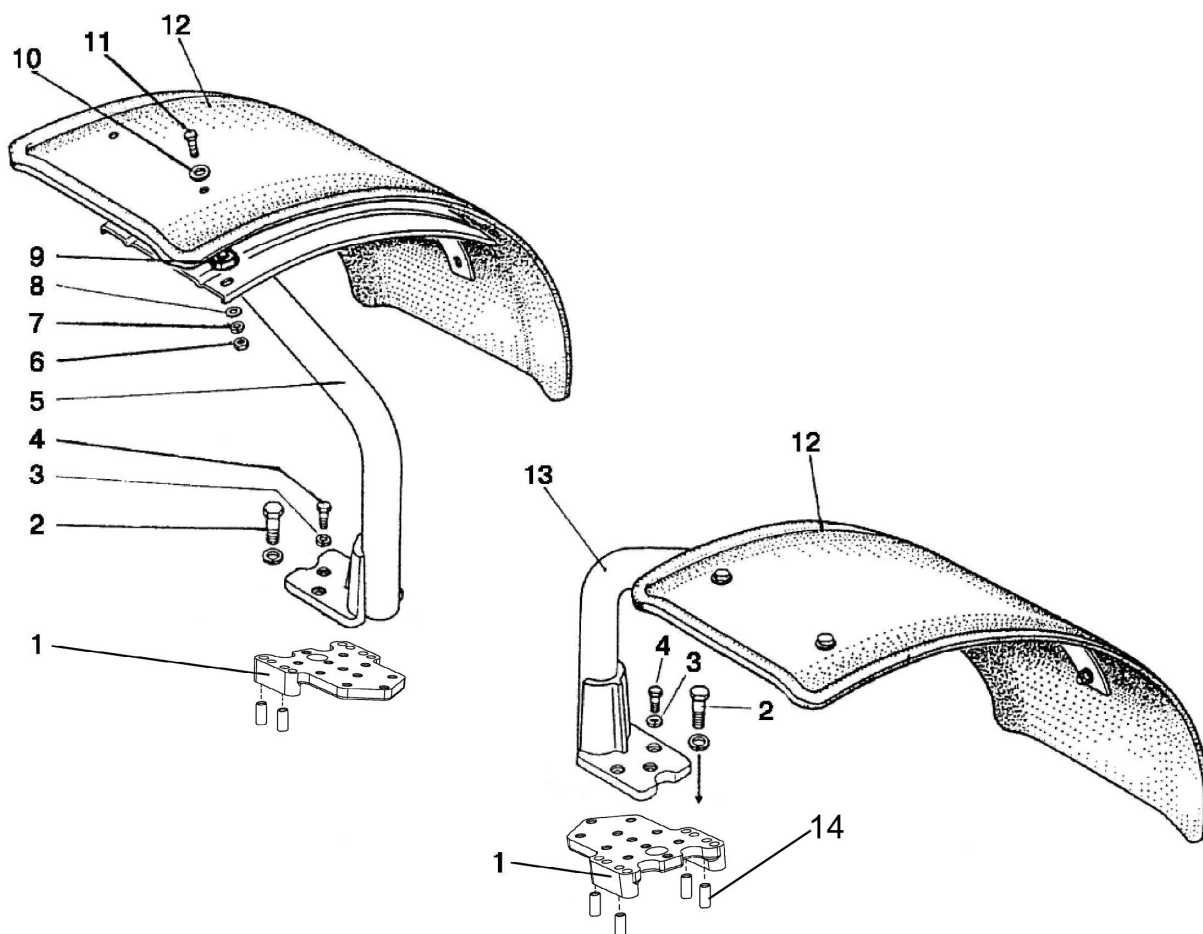


Fig. 84.3 Front wheel fenders

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Group 84. Hood and fenders
Subgroup 8403. Front wheel fenders

Fig.	Pos.	Designation	Q-ty	Description
84.3		2022-8403010/-01	1	Fender
	1	822-8403011-B	2	Base
	2		8	Bolt M12-6gh85.88.35.019 GOST 7796-70
	3		14	Washer 12 OT OST 37.001.115-75
	4		6	Bolt M12-6gh30.88.35.019 GOST 7796-70
	5	2022-8403015/-01	1/1	Post
	6		10	Nut M10-6N.6.019 GOST 5915-70
	7		10	Washer 10L OST 37.001.115-75
	8		10	Washer
	9	80-4616017	10	Roller
	10		10	Washer S 10.01.019 GOST 6958-78
	11		10	Bolt M10-6gh40.88.35.019 GOST 7796-70
	12	1221-8403014-B-02 or 1221-8403014-B1-02	2 2	Fender Fender
	13	2022-8403015	1	Post
	14	2022-8403012	8	Bushing

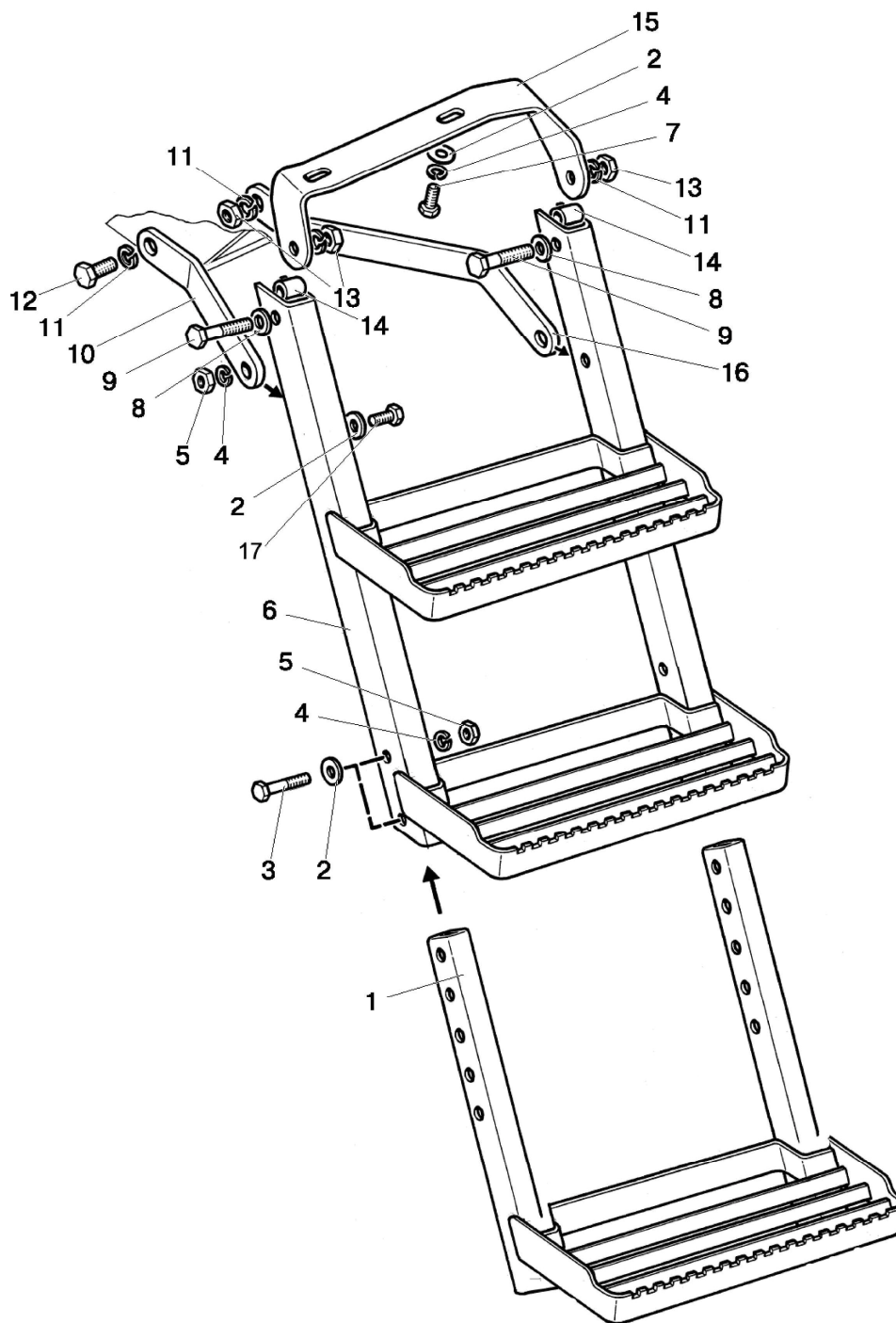


Fig. 84.4. Foot step

Group 84. Hood and fenders
Subgroup 8405. Foot step

Fig.	Pos.	Designation	Q-ty	Description
84.4		80-8405005-B	1	Left foot step (1-16)
		80-8405005-B ¹⁾	1	Right foot step (1-16)
	1	80-8405020-A2	1	Foot step
	2		8	Washer S 10.01.019 GOST 11371-78
	3		4	Bolt M10-6gh50.88.35.019 GOST 7795-70
	4		8	Washer 10 OT OST 37.001.115-75
	5		6	Nut M10-6N.6.019 GOST 5915-70
	6	80-8405010-AZ	1	Foot step
	7		2	Bolt M10-6gh30.88.35.019 GOST 7796-70
	8		2	Washer S 12.01.019 GOST 11371-79
	9		2	Bolt M12-6gh65.88.35.019 GOST 7796-70
	10	80-8405031-B	1	Bracket
	11		4	Washer 12 OT OST 37.001.115-75
	12		2	Bolt M12-6gh30.88.35.019 GOST 7796-70
	13		3	Nut M12-6N.6.019 GOST 5915-70
	14	923-6700111	2	Bushing
	15	80-8405030-B	1	Bracket
		80-8405030-B-01 ¹⁾	1	Bracket (of right footstep – optional)
	16	80-8405032-B	1	Bracket
	17		2	Bolt M10-6gh25.88.35.019 GOST 7796-70
¹⁾ Only when standard fuel tank is mounted (1221-1101510 or YAVAG 1221-1101510)				

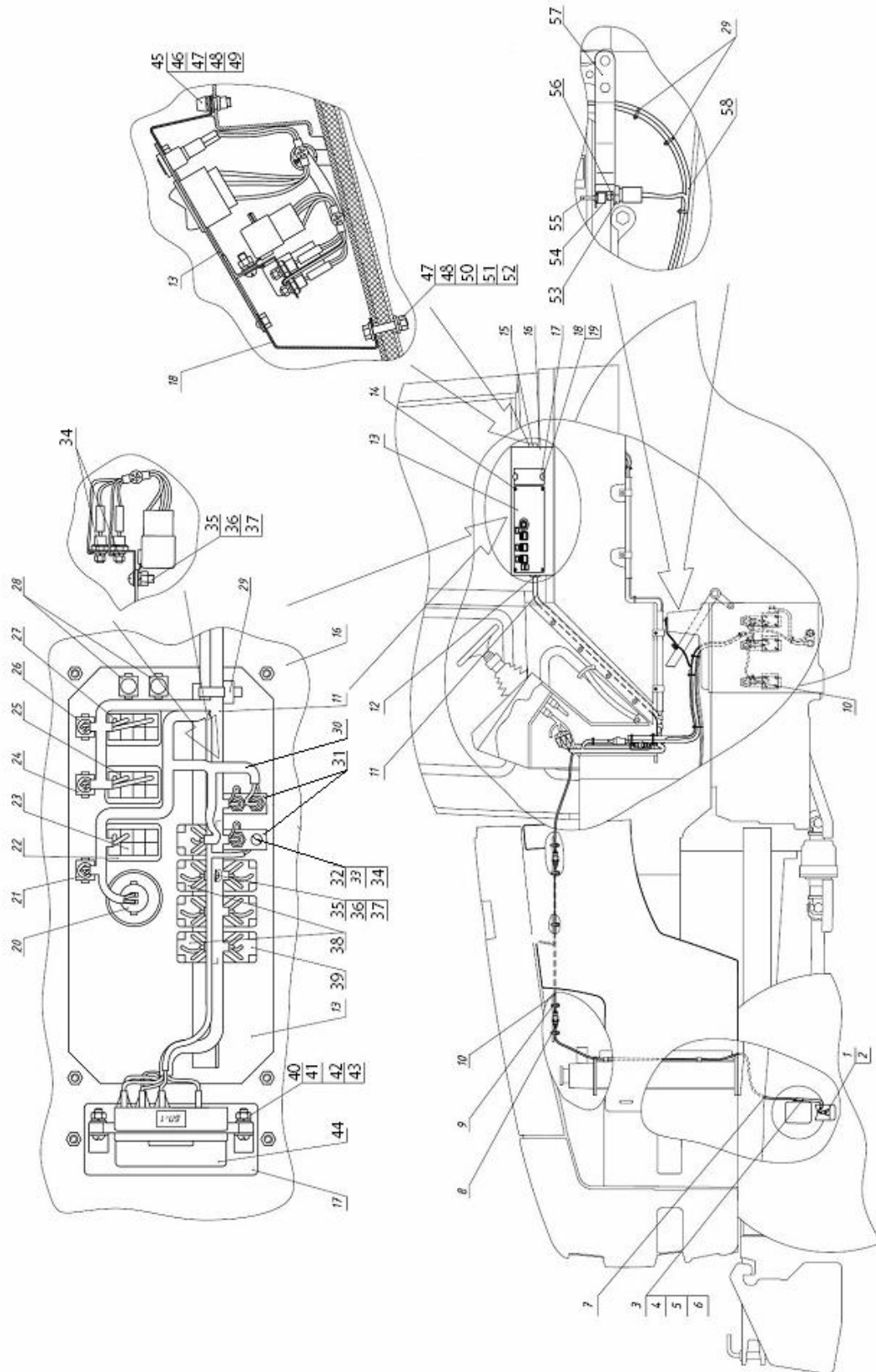


Fig. 87.1. FDA, rear axle DL and PTO control(with GB 16Fx8R)
(1220-8700210-03; 1220-8700210-05)

Group 87. Control system
Subgroup 8700. FDA, rear axle DL and PTO control (electrics)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.1		1220-8700210-03 ¹⁾		DL, FDA and PTO control
		1220-8700210-05 ²⁾		
	1	3710.71	1	Switch with ball break
	2	50-1702048	10 max	Shim washer
	3	1222-8700021	1	Pipe
	4	1221-8700022	2	Clamp
	5		2	Bolt M8-6gh16.88.35.019 GOST 7796-70
	6		2	Washer 8T OST 37.001.115-75
	7	1022-3724840-V	1	Bundled cable
	8	0-0106462-1	1	Male plug
	9	80-3723045-01	12 ¹⁾ ; 10 ²⁾	Collar
	10	922-3724850	2 ¹⁾ ; 1 ²⁾	Bundled cable
	11	1220-3724820	1	Bundled cable
	12	70-3723042-02	1	Bushing
	13	1221-8700265	1	Panel
	14		4	Screw V.M6-6gh16.58.019 GOST 17474-80
	15	50-4607064	1	Bushing
	16	1022-8700290	1	Panel
	17	1221-8700275	1	Dashboard
	18	80-3805065	2	Screw
	19		2	Ring 006-010-25-1-4 GOST 18829-73/GOST 9833-73
	20	VK 12-1 TSIKS.342241.001 TU	1	Switch
	21	3803.50 ¹⁾	1	Pilot lamp of RPTO
		3803.125 ²⁾	1	Pilot lamp 12.3803-41 TU RB 300228919.037-2002
	22	80-3801021	3	Switch seat
	23	3709.75 ¹⁾	1	PTO switch
		80-3801327 ²⁾	1	Blind plug
	24	3803.40	1	Pilot lamp of DL
	25	3709.65	1	DL switch
	26	3803.45	1	Pilot lamp of FDA
	27	3709.70	1	FDA switch
	28	3803.125	2	Pilot lamp 12.3803-41 TU RB 300228919.037-2002
	29	80-3723045	8 ¹⁾ ; 5 ²⁾	Collar
	30	1220-3724940 ¹⁾	1	Bundled cable
	31	1522-8700221	2	Bracket
	32		1	Screw V.M5-6gh12.58.019 GOST 17473-80
	33		1	Nut M5-6N.6.019 GOST 5915-70
	34		4 ¹⁾ ; 2 ²⁾	Washer 5T OST 37.001.115-75
	35	V.M6-6gh16.58.019 GOST 17473-80	5	Screw
	36	M6-6N.6.019 GOST 5915-70	5	Nut
	37		5	Washer 6T OST 37.001.115-75
	38	3747.40	2	Cut-out relay 20A
	39	3747.50	5 ¹⁾ ; 4 ²⁾	Cut-in relay 30A

¹⁾ For configuration 1220-8700210-03

²⁾ For configuration 1220-8700210-05

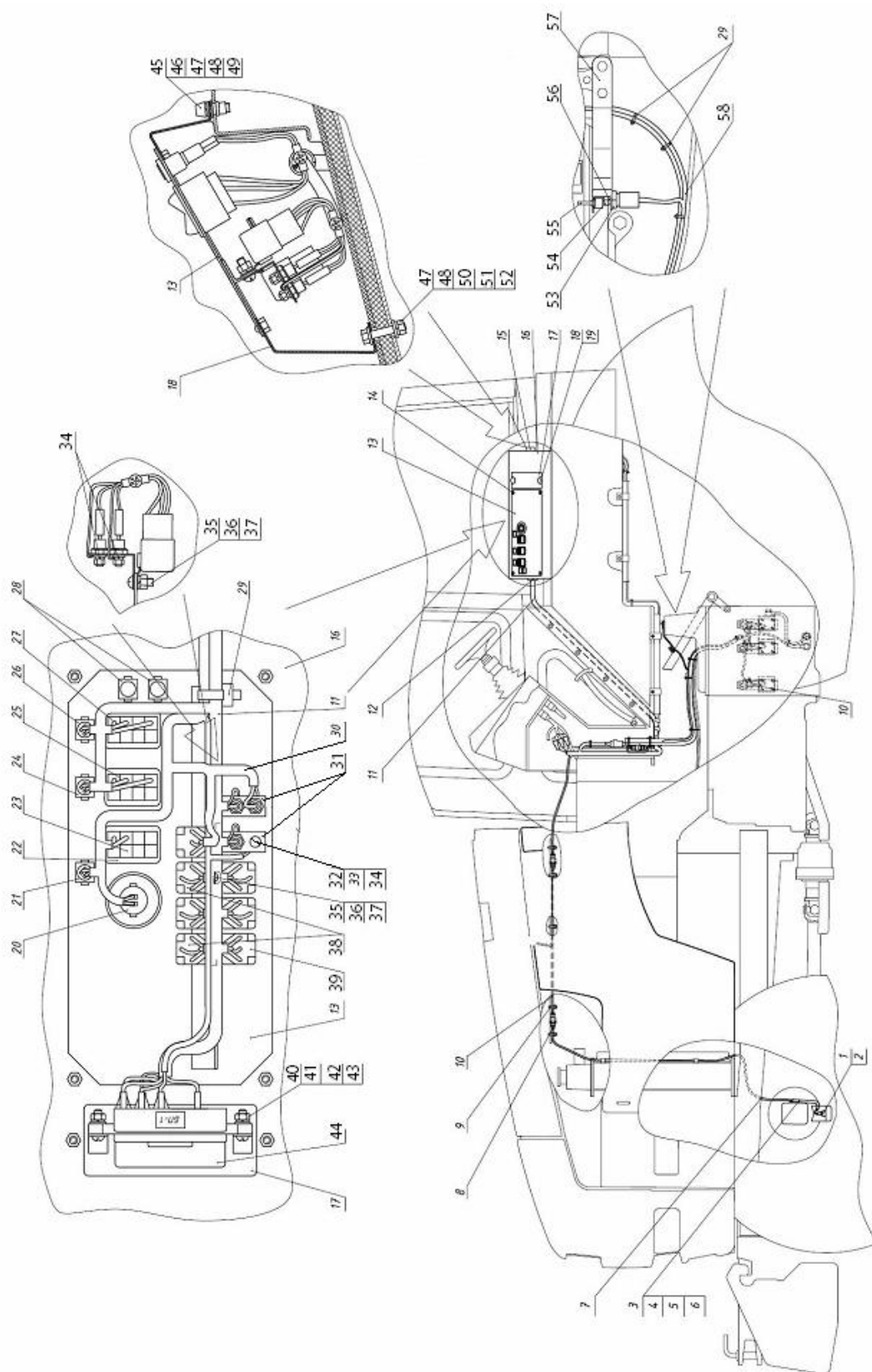


Fig. 87.1. FDA, rear axle DL and PTO control(with GB 16Fx8R)
(1220-8700210-03; 1220-8700210-05)

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Group 87. Control system
Subgroup 8700. FDA, rear axle DL and PTO control(electrics)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.1	40	V.M6-6gh20.58.019 GOST 17473-80	2	Screw
	41	M6-6N.6.019 GOST 5915-70	2	Nut
	42	S6.01.019 GOST 6958-75	2	Washer
	43	6T OST 37.001.115-75	2	Washer
	44	BP-1 TU RB 03428193.095-97	1	Fuse block
	45	A30.04.017	2	Cap
	46	M6-6gh16.88.35.019 GOST 7798-70	2	Bolt
	47	S6.01.019 GOST 6958-78	4	Washer
	48	6T OST 37.001.115-75	4	Washer
	49	M6h16,0 TU BY 161.01-2008	2	Rivet-nut
	50	M6-6gh30.88.35.019 GOST 7798-70	2	Bolt
	51	M6-6N.6.019 GOST 5915-70	2	Nut
	52	S6.01.019 GOST 11371-78	2	Washer
	53	VK 12-21 TU RB 07512465.01794	1	Switch
	54	M14h1,5-6N.6.04.019 GOST 5916-70	1	Nut
	55	85-3710032	1	Lever
	56	14 OT OST 37.001.115-75	1	Washer
	57	1025-8700430	1	Bracket
	58	1220-3724830	1	Bundled cable

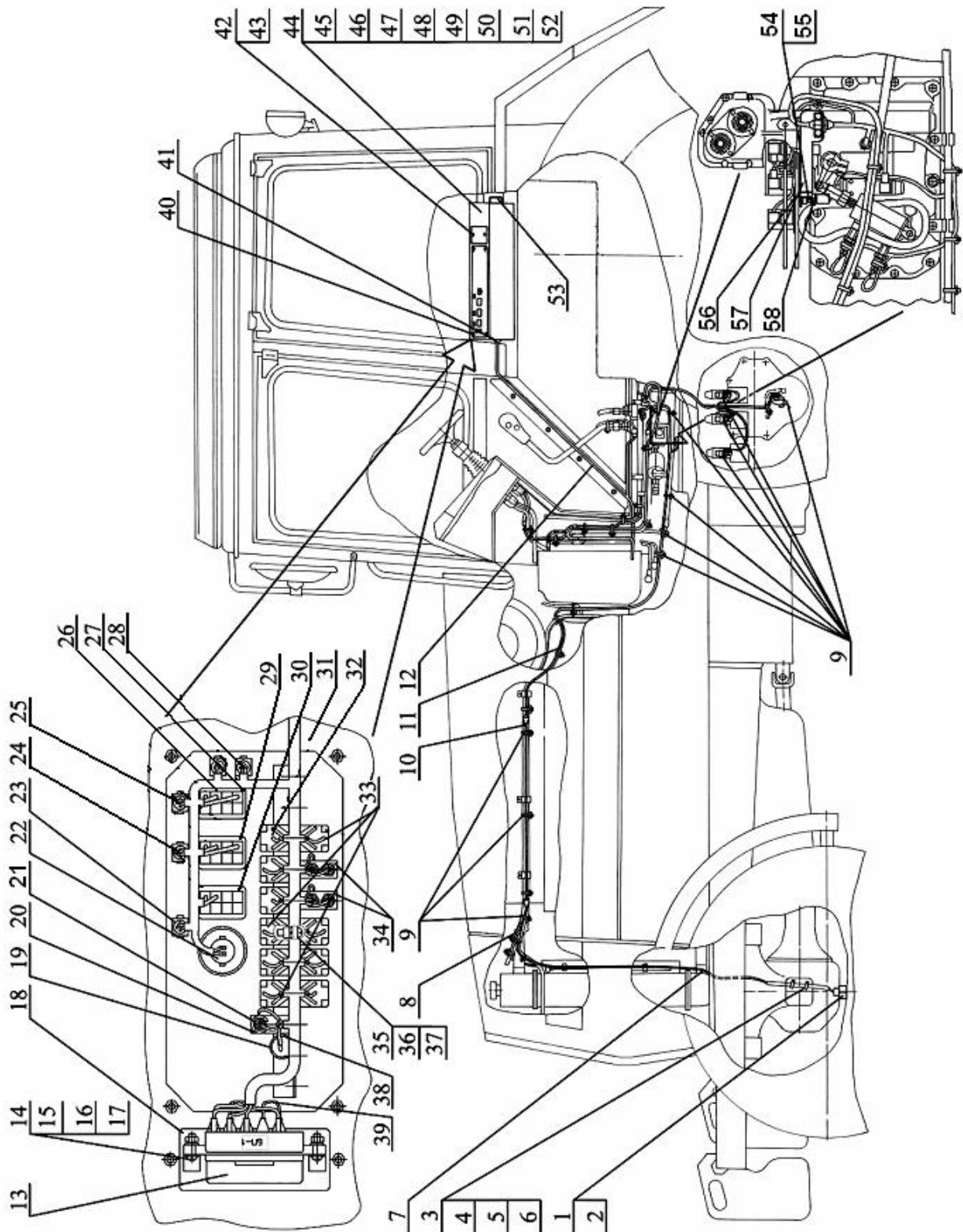


Fig. 87.2. FDA, rear axle DL, PTO and gear unit control
(1221-8700250-D-03)

Group 87. FDA, DL, PTO, lift linkage and gear unit control (electrics)
Subgroup 8700. FDA, rear axle DL, PTO and gear unit control
(1221-8700250-D-03)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.2		1221-8700250-D-03	1	FDA, rear axle DL, PTO and gear unit control
	1	3710.71	1	Switch with ball break
	2	50-1702048	10max	Shim washer
	3	1222-8700021	1	Pipe
	4	1221-8700022	2	Clamp
	5		2	Bolt M8-6gh16.88.35.019 GOST 7796-70
	6		2	Washer 8T OST 37.001.115-75
	7	1221-3724840-V	1	Bundled cable
	8		1	Female connector 602602 OST 37.003.032-88
	9	80-3723045	25	Collar
	10	1222-3724850	1	Bundled cable
	11	1221-3724970-D	1	Bundled cable
	12	1221-3724960	1	Bundled cable
	13		1	Fuse block BP-1 TU RB 03428193.095-97
	14		2	Screw V.M6-6gh20.58.019 GOST 17473-80
	15		2	Nut M6-6N.6.019 GOST 5915-70
	16		2	Washer S6.01.019 GOST 6958-78
	17		2	Washer 6T OST 37.001.115-75
	18	1221-8700275	1	Dashboard
	19	PR-32-01	1	Sealant
	20	1522-8700221-A	1	Bracket
	21	1522-8700222	1	Bushing
	22		1	Switch VK 12-1 TSIKS 642241.001 TU
	23	3803.50	1	Pilot lamp of RPTO
	24	3803.40	1	Pilot lamp of DL
	25	3803.45	1	Pilot lamp of FDA
	26	3709.70	1	FDA switch
	27	80-3801021	3	Switch seat
	28	3803.55	2	Orange pilot lamp
	29	3709.65	1	DL switch
	30	3709.75	1	PTO switch
	31	1221-8700265	1	Panel
	32	3747.50	7	Cut-in relay 30A
	33	3747.40	3	Cut-out relay 20A
	34	1522-8700221	2	Bracket
	35		7	Screw V.M6-6gh12.58.019 GOST 17473-80
	36		7	Nut M6-6N.6.019 GOST 5915-70
	37		7	Washer 6T OST 37.001.115-75
	38	1321-8700019	1	Clamp

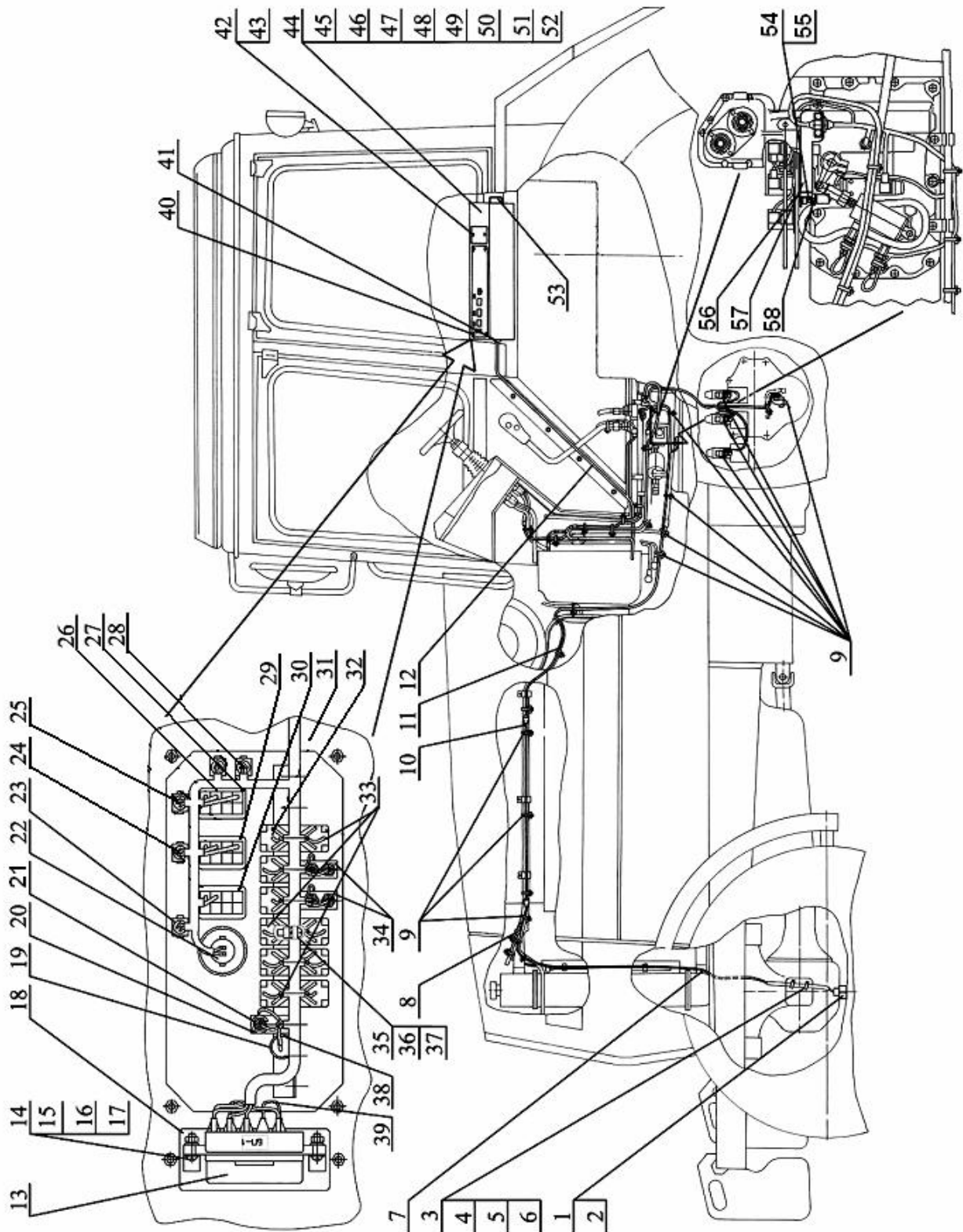


Fig. 87.2. FDA, rear axle DL, PTO and gear unit control
(1221-8700250-D-03)

Group 87. FDA, DL, PTO, lift linkage and gear unit control (electrics)
Subgroup 8700. FDA, rear axle DL, PTO and gear unit control
(1221-8700250-D-03)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.2	39	80-3724410-06	2	Cable
	40		4	Screw V.M6-6gh20.58.019 GOST 17474-80
	41	50-4607064	1	Bushing
	42	80-3805065	2	Screw
	43		2	Ring 006-010-25-1-4 GOST 18829-73/GOST 9833-73
	44	1022-8700290	1	Panel
	45		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	46		2	Bolt M6-6gh30.88.35.019 GOST 7798-70
	47		2	Nut M6-6N.6.019 GOST 5915-70
	48		4	Washer S6.01.019 GOST 6958-78
	49		2	Washer S6.01.019 GOST 11371-78
	50		4	Washer 6T OST 37.001.115-75
	51	A30.04.017	2	Cap
	52		2	Rivet-nut M6h16 TU BY 161.01-2008
	53	70-3723042-02	1	Bushing
	54		1	Nut M14h1,5-6N.6.019 GOST 5915-70
	55		1	Washer 14 OT OST 37.001.115-75
	56	1221-8700286	1	Lever
	57	1221-8700280	1	Bracket
	58	VK 12-2	1	Switch VK 12-2 TU RB 07512465.017-94

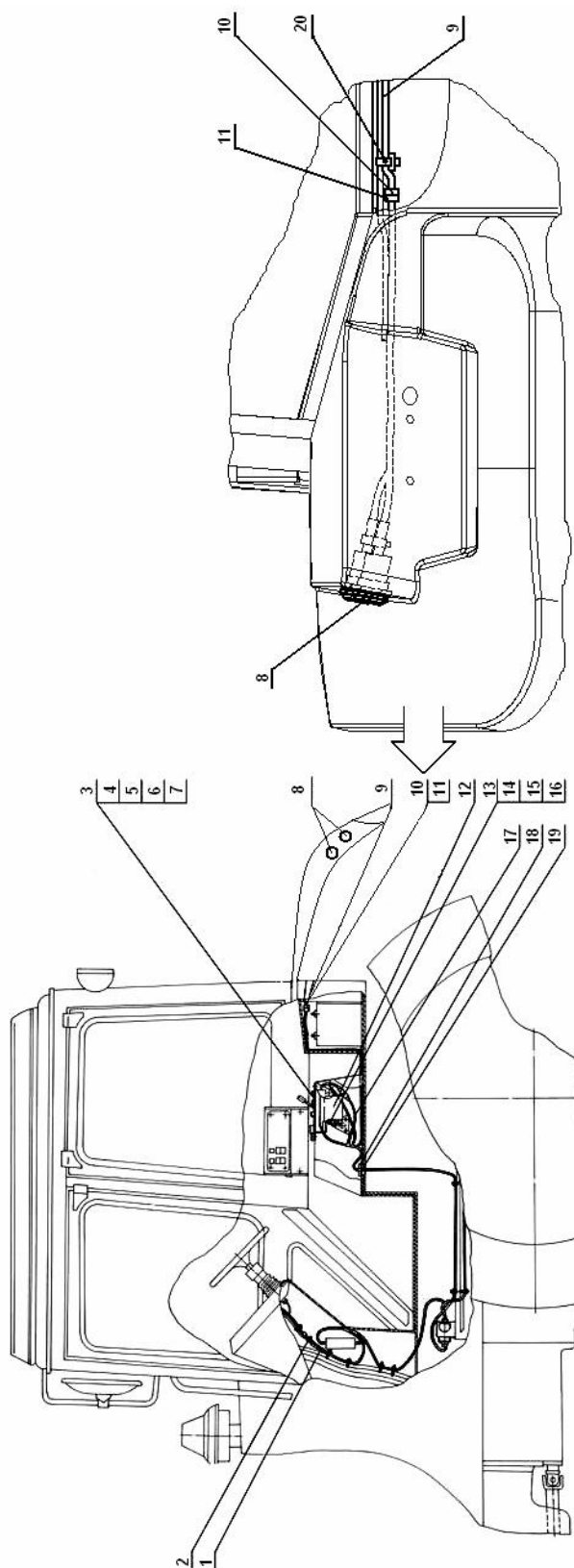


Fig. 87.3. Rear lift linkage control (1221-8700610-03)

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Group 87. FDA, DL, PTO, lift linkage and gear unit control (electrics)
Subgroup 8700. Rear lift linkage control
(1221-8700610-03)

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.3		1221-8700610-03	1	Rear lift linkage control
	1	1221-3724895	1	Bundled cable
	2	80-3723045-01	14	Collar
	3		1	Control panel 0 538 201 611
	4		4	Screw VM4-6gh10.58.019 GOST 17475-80
	5		4	Nut M4 -6N.6.019 GOST 5915-70
	6		4	Washer S4 .01.019 GOST 6958-78
	7		4	Washer 4 OST 37.001.115-75
	8	3710.65	4	Button switch
	9	1221-3724885	2	Bundled cable
	10		2	Female connector 602604 OST 37.003.032-88
	11		2	Male plug 502604 OST 37.003.032-88
	12		1	Electronic unit R 917 004 743
	13		2	Bolt M6-6gh16.88.35.019 GOST 7798-70
	14		2	Nut M6-6N.6.019 GOST 5915-70
	15		2	Washer 6T OST 37.001.115-75
	16	A 30.04.017	2	Cap
	17	1221-3724890	1	Bundled cable
	18	80-6702402-B-04	1	Plate
	19	70-3723042-02	1	Bushing
	20	80-3723045	9	Collar

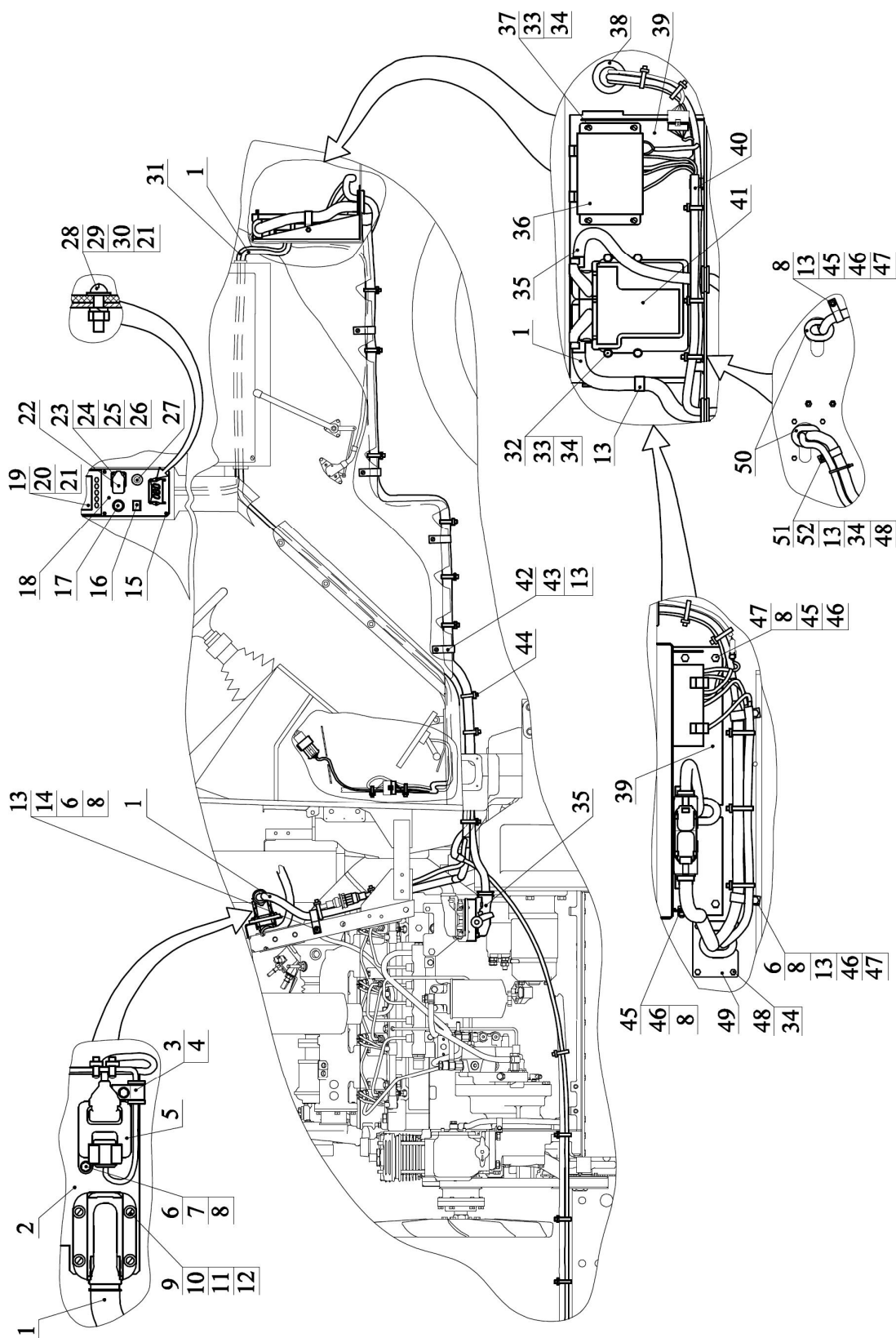


Fig. 87.4 Engine control (1221.5-8700910-M)

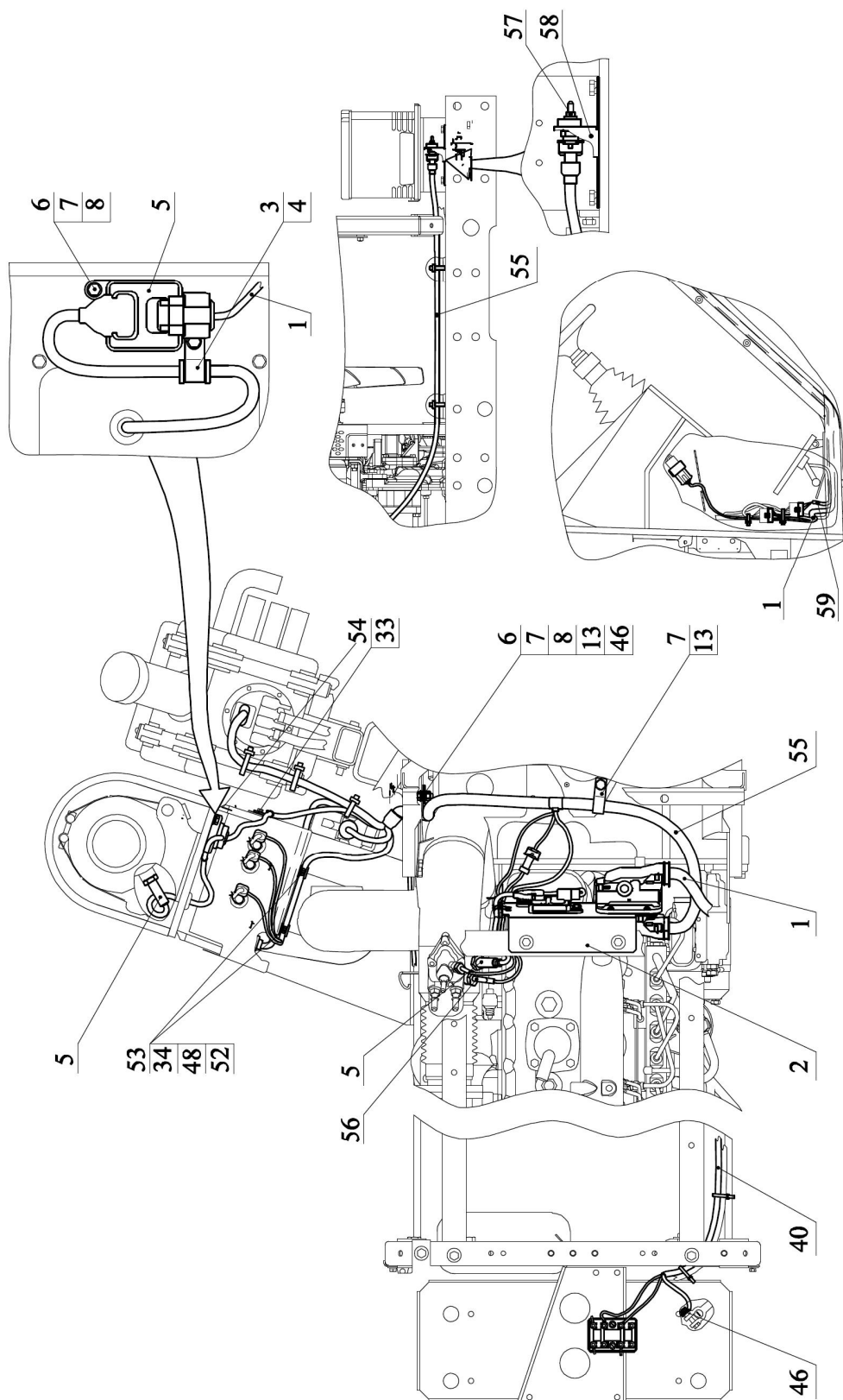


Fig. 87.5 Engine control (1221.5-8700910-M)

**Group 87. Control system
Subgroup 8700. Engine control**

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.4 87.5		1221.5-8700910-M	1	Engine control
	1		6	Screw V.M4-6gx20.58.019 GOST 17474-80
	2	3803.55	1	Orange pilot lamp
	3	3761.060	1	Cigar lighter 116.3725 TU 37.466.139-2004
	4	1221.4-8700916-M	1	Panel
	5	3761.077	1	Information display 948035
	6		4	Screw V.M4-6gx10.58.019 GOST 17473-80
	7		6	Washer 4 OST 37.001.115-75
	8		1	Socket 25.038.100
	9		4	Screw V.M3-6gx16.58.019 GOST 17473-80
	10		4	Nut M3-6N.6.019 GOST 5927-70
	11		4	Washer S 3.01.019 GOST 11371-78
	12		4	Washer 3T OST 37.001.115-75
	13	3710.075	1	Switch VK12-1 TSIKS 642241.001 TU
	14		2	Screw V.M4-6gx16.58.019 GOST 17473-80
	15		2	Nut M4-6N.6.019 GOST 5927-70
	16		2	Washer S 4.01.019 GOST 11371-78
	17	1221.4-3724801	1	Bundled cable
	18	1221.5-3724960-M	1	Bundled cable
	19	923-3723012	9	Clamp
	20		8	Bolt M8-6gx16.88.35.019 GOST 7796-70
	21		10	Nut M8-6N.6.019 GOST 5915-70
	22		15	Washer 8T OST 37.001.115-75
	23	80-3723045-01	40	Collar
	25	A37.10.031	4	Threaded rivet nut
	26		4	Screw 2-4h16.019 GOST 1144-80
	27		4	Bolt M6-6gx30.88.35.019 GOST 7798-70
	28		12	Washer 6T OST 37.001.115-75
	29		4	Washer S 6.01.019 GOST 11371-78
	30	3761.101	1	Extension bundled cablea 260-3724312*
	31	3761.75	1	Switching and protection unit of 1000 SCR series
	32		4	Screw V.M6-6gx30.58.019 GOST 17473-80
	33	1221.4-8700913	3	Ring
	34	1221.5-8700940-M	1	Bracket
	35	1025.5-3724845-M	1	Bundled cable
	36	517519	1	Control unit EDC 17 CV54 *
	37		5	Washer S 8.01.019 GOST 6958-78
	38		3	Bolt M8-6gx20.88.35.019 GOST 7796-70
	39		1	Bolt M6-6gx20.88.35.019 GOST 7798-70
	40		4	Nut M6-6N.6.019 GOST 5927-70
	41		1	Washer S 6.01.019 GOST 6958-78
	42		6	Washer S 8.01.019 GOST 11371-78

BELARUS**1221.5**

Group 87. Control system
Subgroup 8700. Engine control

Fig.	Pos.No	Assembly unit or part number	Q-ty	Description
87.4 87.5	43		3	Bolt M6-6gx16.88.35.019 GOST 7798-70
	44	1221.5-8700912-M	1	Plate
	45	1221.5-3724980-M	1	Bundled cable
	46	1025.5-8700925-M	1	Bracket
	47	70-3723042-02	1	Bushing
	48	517510	1	Temperature sensor 0452 S20 4YF-00*
	49	517511	2	Sensor NOx 0452 S20 4RY-00*
	50	70-3506027	1	Bushing
	51	70-1115012-01	1	Clamp
	52		4	Bolt M8-6gx25.88.35.019 GOST 7796-70
	53		4	Screw V.M5-6gx20.58.019 GOST 17473-80
	54		4	Nut M5-6N.6.019 GOST 5927-70
	55		4	Washer S 5.01.019 GOST 11371-78
	56		4	Washer 5T OST 37.001.115-75
	57	517512	1	Ambient temperature sensor 0452 S20 4YF-00*
	58	1025.5-8700930-M	1	Bracket

