
BELARUS ***1523.4***

with motor D-260.1S3A (116,0 kW)

1523.4-0000010-01 KDS

CATALOGUE OF PARTS AND ASSEMBLY UNITS

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

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

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

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

RUE "Minsk Tractor Works" constantly works on improving the output goods and retains the right to change the design, technical data without prior notification of the customers. Some designations, descriptions and figures in this catalogue may differ from actual ones on your tractor. For detailed information, contact your dealer and use information bulletins, published by PA "MTW" and regularly circulated among the consumers.

© RUE "Minsk Tractor Works", 2009

All rights reserved. This book may not be reproduced or copied in full or in part without written permission of RUE "Minsk Tractor Works".

CONTENTS

Introduction	4
How to use this catalogue	4
Application	5
Index of groups and subgroups of catalogue assembly units and parts	6
Assembly units and parts	9

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 (Cyrillic Alphabet) Symbols and Designations used in Catalogue and Corresponding English Equivalent

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

INTRODUCTION

The present catalogue contains the whole range of assembly units and parts for tractors "BELARUS-1523.4", equipped with diesel engines D-260.1S3A (116,0 kW).

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

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

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

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

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

Some parts, taken from previous tractor models, have alphanumeric designations. For example, "Д18-055-A-01 O-ring".

APPLICATION

The tractors "BELARUS-1523.4" are intended for performance of various agricultural operations with mounted, semi-mounted and trailed machines and implements, for transport and loading operations, driving of fixed and agricultural machines. These tractors are delivered to the customers in the Republic of Belarus and abroad.

The tractor "BELARUS -1523.4" is four-by-four general-purpose wheeled tractor of traction class 3.

The tractor "BELARUS -1523.4" is equipped with the engine D-260.1S3A, produced by UP MMZ, with electronic control system, power 116,0 kW. The emission level of the engine corresponds to environmental requirements of stage IIIA.

The coupling clutch is frictional, double-disk, spring-loaded.

The gearbox (GB): 16/8 – mechanical, stepped, constant-mesh with synchronized within-range gear shift, clutch gear based range shift; 24/12 - mechanical, stepped, constant-mesh with synchronized within-range gear shift, clutch gear and speed synchronizer based range shift.

The rear axle – with the main drive – a pair of curvic bevel gears, differential, final drives – a pair of cylindrical gears and planetary type reduction units .

Front driving axle (FDA) – with main drive, self-locked differential, final drives (planetary-cylindrical reduction units). Drive of front driving axle – built-in gearbox cylindrical reduction unit and friction hydraulic clutch, cardan shaft.

Rear power take-off shaft (PTO) is independent, two-speed and synchronous, with reduced-current start, PTO shaft end extensions – PTO 3 (20 splines), PTO 1c (8 splines – as a unit of SPTA kit), in accordance with GOST 3480. The direction of rotation is clockwise when viewed from the shaft end face.

Steering is hydrostatic (HSC); the dosing pump is gerotor-type; the feed pump is gear-type, the direction of rotation is left. The executing mechanism is hydraulic cylinder of bidirectional operation.

The cabin is unified, protective, providing safety, micro-climate, noise and vibration insulation, with circular-shaped glass. The cabin is equipped with electrical wipers for front and rear screens, windscreen washer, cabin heater, with a sprung seat Grammer adjustable for operator's height and weight.

Working brakes are disk type, operate on rear wheels and through the drive of front driving axle – on front wheels. Working brakes control is interlocked with tractor brakes control. Parking brake is disk type, integrated with working brakes, has an independent mechanical drive. Parking brake control is interlocked with the air drive of trailer brakes. Drive of trailer brakes is pneumatic, interlocked with tractor brakes control.

Hydraulic system is remote-cylinder, with electrohydraulic system, providing draft, position, combined and depth control of agricultural implements' positions. The system contains three pairs of independent outlets. Rear lift linkage NU-3 according to GOST with adjustable right lifting rod, lift drawbar hitch with Yoke TSU-3-B according to GOST 3481 for aggregation with trailed machines.

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
11	Fuel system			
	1101	11	Fuel tanks	9
	1109	11.1	Air cleaner installation	11
	1108	11.2	Fuel supply control	13
	1117	11.3	Fuel filter installation	15
12	Gas exhaust system			
	1205	12.1	Muffler	17
13	Cooling system			
	1301	13.1	Cooling unit 1523-1301009-01	19
	1317	13.2	Cooler installation 1523.4-1317010	21
	1309	13.3	Fan guard	23
16	Clutch			
	1601	16.1	Clutch installation 260.1-10055009	25
	1601	16.2	Clutch housing	27
	1601	16.3	Clutch housing (2022-1600010-A-01) (with GB 24x12)	29
	1602	16.4	Clutch control	33
	1602	16.5	Main cylinder	37
	1602	16.6	Hydraulic booster	39
	1602	16.7	Working cylinder	41
	1602	16.8	Cock	43
	1602	16.9	Tank	45
17	Gear box (GB)			
	1701	17.1	Gear box (GB) 1522-1700010	47
	1701	17.2	Primary shaft	49
	1701	17.3	Secondary shaft	51
	1701	17.4	Intermediate shaft	53
	1701	17.5	Low gear shaft	55
	1702	17.6	GB control mechanism	59
	1701	17.7	Gear box (GB) 1222-1700010 (24F+12R)	63
	1701	17.8	Primary shaft	65
	1701	17.9	Intermediate shaft	67
	1701	17.10	Low gear and back draft shaft	71
	1701	17.11	Gear set shaft	75
	1701	17.12	Secondary shaft	77
	1702	17.13	GB control mechanism	79
	1702	17.14	Cylinder	85
	1704	17.15	Pump drive	87
	1704	17.16	Gear-type oil pump	89
	1716	17.17	Filter	91
	1737	17.18	Distribution filter	93

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
18			Drive of front driving axle	
	1802	18.1	Drive of front driving axle	95
22			Cardan drive	
	2203	22.1	Cardan drive	99
	2210	22.2	Guard	101
23			Front driving axle	
	2300	23.1	Front driving axle	103
	2302	23.2	Main gear of front driving axle (1222-2300020-05)	107
	2303	23.3	Differential	109
	2308	23.4	Final drive reduction gear unit of front driving axle (1222-2300020-05)	111
24			Rear axle	
	2401, 2407	24.1	Rear axle housing. Final drive.	115
	2403, 2407	24.2	Differential. Bearing carrier.	119
	2401	24.3	Rear axle lubricating system (variant)	121
	2401	24.4	Rear axle lubricating system (variant)	123
	2409	24.5	Differential locking mechanism.	125
	2409	24.6	Differential locking mechanism of wet type	127
27			Drawbar hitch	
	2707	27.1	Drawbar hitch	129
28			Frame	
	2801	28.1	Semi-frame	133
30			Front axis	
	3003	30.1	Steering link	135
31			Wheels and hubs	
	3101	31.1	Front driving wheels	137
	3107	31.2	Rear driving wheels	139
34			Steering control	
	3401	34.1	Steering column	141
	3401	34.2	Steering column	143
	3405	34.3	Hydraulic cylinder 50x25-200	145
	3407	34.4	Hydrostatic steering control	147
35			Brakes	
	3506	35.1	Wet brakes	151
	3503	35.2	Brake fluid tanks	153
	3503	35.3	Wet brakes control (variant)	155
	3503	35.4	Wet brakes control (variant)	159
	3503	35.5	Parking brake control (for wet brakes)	163
	3506	35.6	Pipelines and fittings of trailer brakes air drive	167
	3513	35.7	Ballon	169
	3514	35.8	Break valve	171
37			Electrical equipment	
	3700	37.1	Head lamps installation	173
	3700	37.2	Diesel engine electrical equipment	175
	3700	37.3	Transmission electrical equipment	177
	3700	37.4	Transmission electrical equipment	179
	3700	37.5	Cabin electrical equipment I	181
	3700	37.6	Cabin electrical equipment II	183
	3700	37.7	Front lights installation	187
	3701	37.8	Generator installation	189
	3724	37.9	Storage battery installation	191

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
38	Dashboard			
	3805	38.1	Dashboard	193
39	Tools and accessories			
	3901	39.1	Operator tool	197
	3912	39.2	First aid kit	199
42	Power take-off (PTO)			
	4202	42.1	PTO shaft	201
	4209	42.2	Front PTO shaft	205
	4209	42.3	Front PTO shaft reduction unit	207
	4218	42.4	Control of rear PTO shaft hydraulic drive	213
	4235	42.5	Ballast	215
46	Hydraulic system			
	4605	46.1	Lift linkage	217
	4605	46.2	Lift linkage parts and units	221
	4606	46.3	Front lift linkage	223
	4606	46.4	Bracket	227
	4606	46.5	Upper link	229
		46.6	Lifting rod	
	4607	46.7	Hydraulic units and fittings	231
		46.8		
46.9				
4608	46.10	Tank	237	
4617	46.11	Hydraulic system pump drive	239	
67	Tractor cabin			
	6700	67.1	Tractor cabin	241
	6700	67.2	Tractor cabin	247
	6708	67.3	Cabin door	249
68	Seat			
	6800	68.1	Operator seat	251
	6800	68.2	Operator seat	255
	6807	68.3	Reverse mechanism	257
81	Conditioner system			
	8100	81.1	Air conditioner installation	259
	8114	81.2	Compressor installation	261
	8101	81.3 81.1a	Heater installation	263
	8101	81.4 81.5	Heater-cooler installation	266
82	Cabin accessories			
	8201	82.1	Inside rear-view mirror	269
	8201	82.2	Side rear-view mirror	271
	8201	82.3	Sun visor	273
84	Fin assembly			
	8400	84.1 84.2	Facing	275
		84.3	Front wings	
	8405	84.4	Foot step	281
87	Control system			
	8700	87.1	Control of DL and FDA 1522-8700410-Д	283
	8700	87.2	Control of DL, FDA and front PTO shaft 1523-8700210-Д	285
	8700	87.3	Control of DL, FDA and reduction unit (with GB 24x12 and FDA 1525-2300020)	287
	8700	87.4	Control of lift linkage 1522-8700610	289
	8700	87.5	Control of MMZ engine 2022.4-8700910-M	291



9

Group 11. Fuel system
Subgroup 1101. Fuel tanks

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
11	1	1522-1101080	1	Bracket
	2	M10	4	Nut
	3	10 OT	8	Washer
	4	ПП-43-02	10	Gasket
	5	082-1103010	2	Plug
	6	1522-1101060	1	Throat
	7	85-1101002	1	Pipe
	8	XC-61	2	Clamp
	9	70-1101035-Б-01	1	Hose
	10	1522-1101010	1	Tank
	11	1522-1101090	2	Clamp
	12	ПП6-І	1	Cock
	13	1522-1101140-01	2	Band
	14	1522-1101118	4	Gasket
	15	3,2x18	4	Forelock
	16	3022-1101113	2	Adapter
	19	1522-3806026	1	Gasket
	20	3022-1101002-01	2	Fuel pipe
	21	16-27	4	Clamp with worm thread
	22	ДОТ.6804-02	1	Fuel level sensor
	23	80-1101067	5	Washer
	24	BM5x35	5	Screw
	25	1522-1101005	2	Bolt
	26	1522-1101140	2	Band
	27	11,112-100	2	Ball
	28	822-1101081	2	Adapter
	29	1522-1101210	1	Tank
	30	920П-1101210-02	1	Fuel pipe
	31	1522-1101125	4	Pin
	32	1522-1101130	2	Bracket
	33	M16x50	4	Bolt
	34	16 OT	4	Washer
	35	M10x25	4	Bolt
	36	1522-1101070	1	Bracket
	37	Д18-051	1	Bolt
	38	PM14	6	Washer
	39	КГ 1/8"	1	Plug

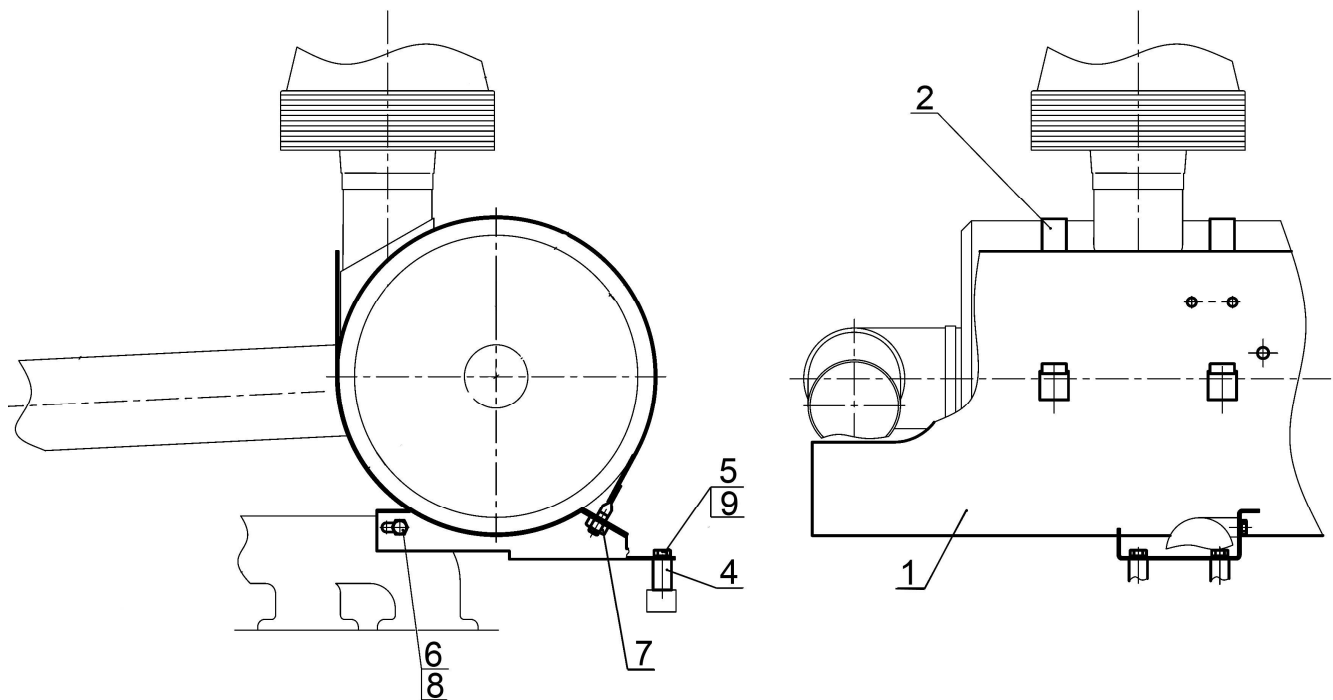


Fig. 11.1 Air cleaner installation

Group 11. Fuel system
Subgroup 1109. Air cleaner installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
11.1		1221.4-1109125	1	Air cleaner installation
	1	1522-1109020	1	Support
	2	1522-1109025	2	Clamp
	4	2522-6702066	2	Bushing
	5	M10-6gx45.88.35.019	2	Bolt GOST 7795-70
	6	M8-6gx14.88.35.019	1	Bolt GOST 7796-70
	7	M10-6H.6.019	2	Nut GOST 5915-70
	8	8T	1	Washer OST 37.001.115-75
	9	10 OT	2	Washer OST 37.001.115-75

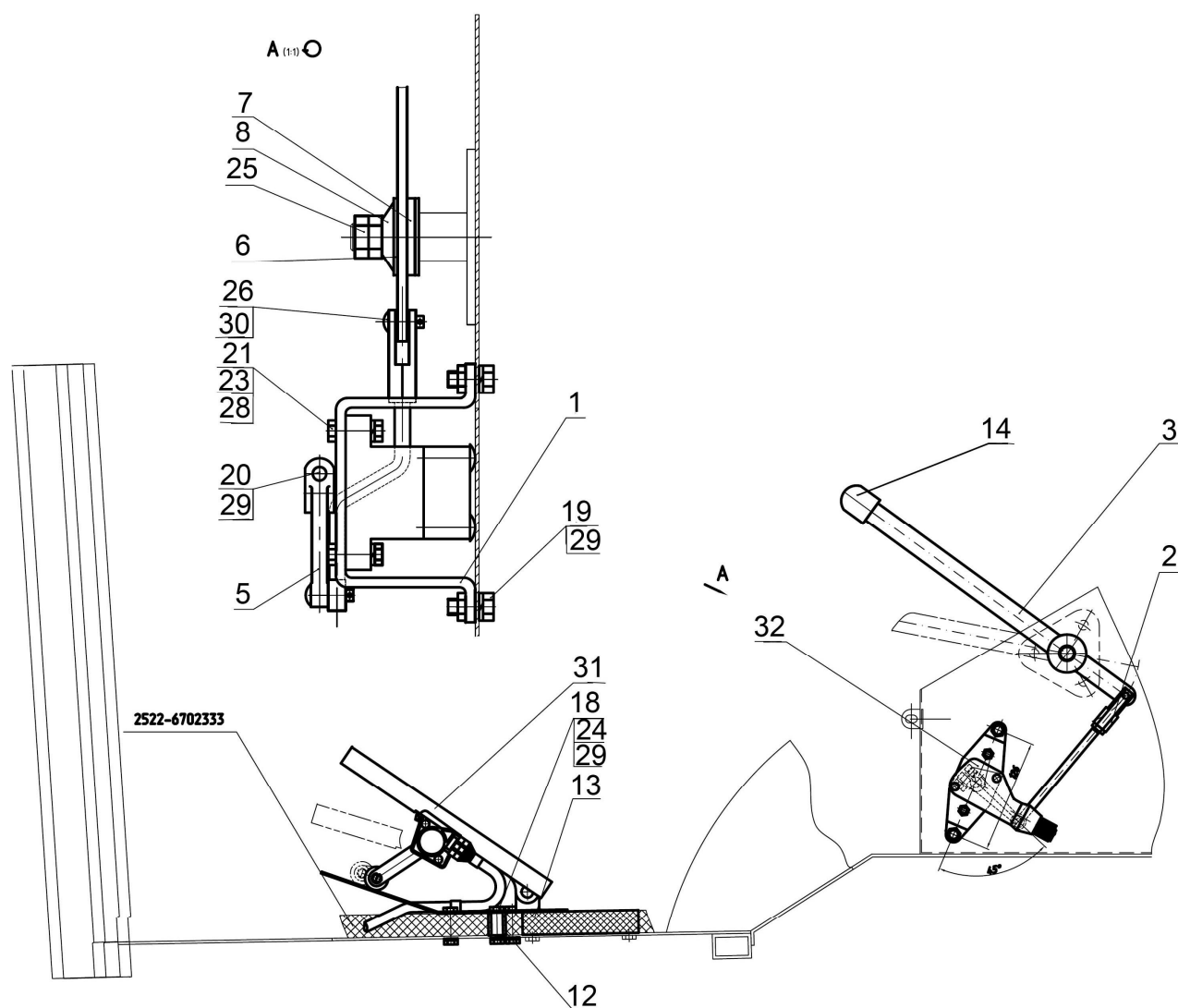


Fig. 11.2 Fuel supply control

Group 11. Fuel system
Subgroup 1108. Fuel supply control

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

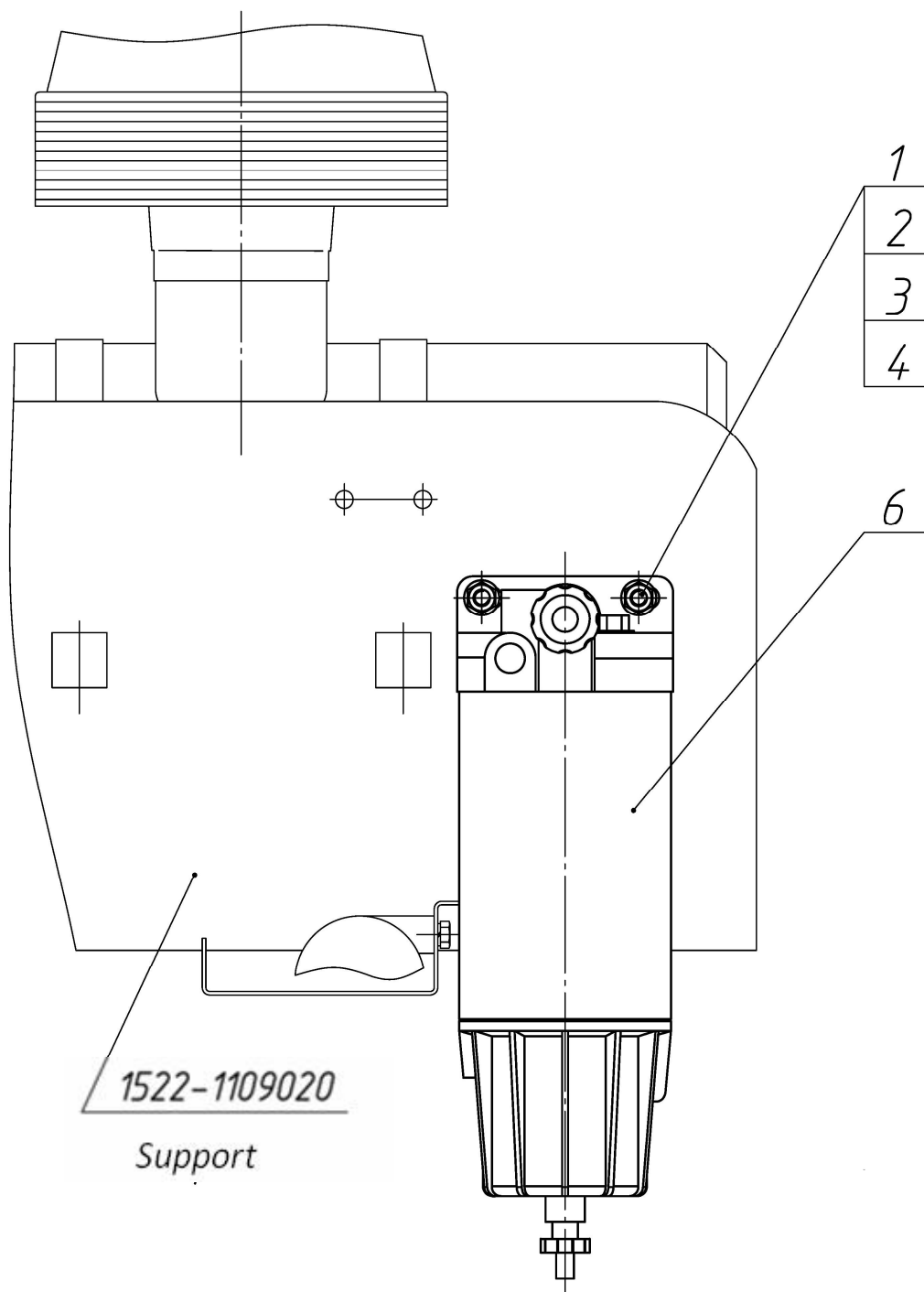


Fig. 11.3 Fuel filter installation

Group 11. Fuel system
Subgroup 1117. Fuel filter installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
11.3	1	M10-6gx30.88.35.019	2	Bolt GOST 7796-70
	2	M10-6H.6.019	2	Nut GOST 5915-70
	3	C 10.01.019	2	Washer GOST 6958-78
	4	10 OT	2	Washer OST 37.001.115-75
	6	PreLine420	1	Prefilter

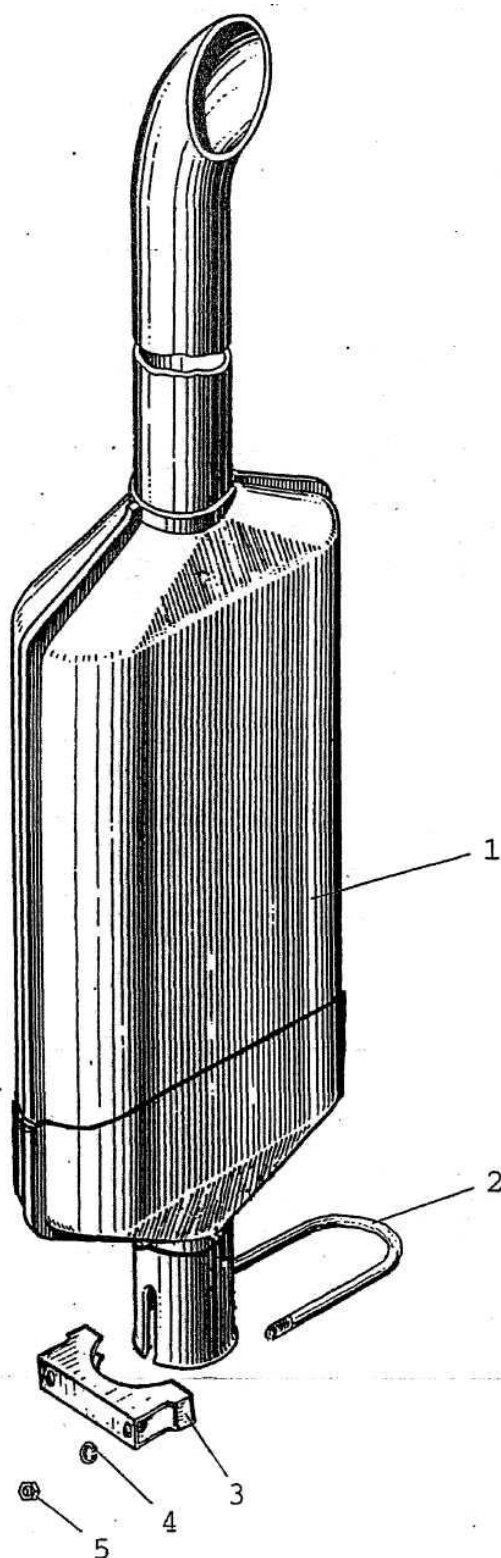


Fig. 12.1 Muffler

Group 12. Gas exhaust system
Subgroup 1205. Muffler

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
12.1		800-1205130	1	Clamp (consists of parts 2,3,4,5)
	1	800-1205015-A	1	Muffler
	2	800-1205131	1	Joke
	3	800-1205132	1	Clamp
	4	10.01.08 кп.016	2	Washer
	5	M10	2	Nut

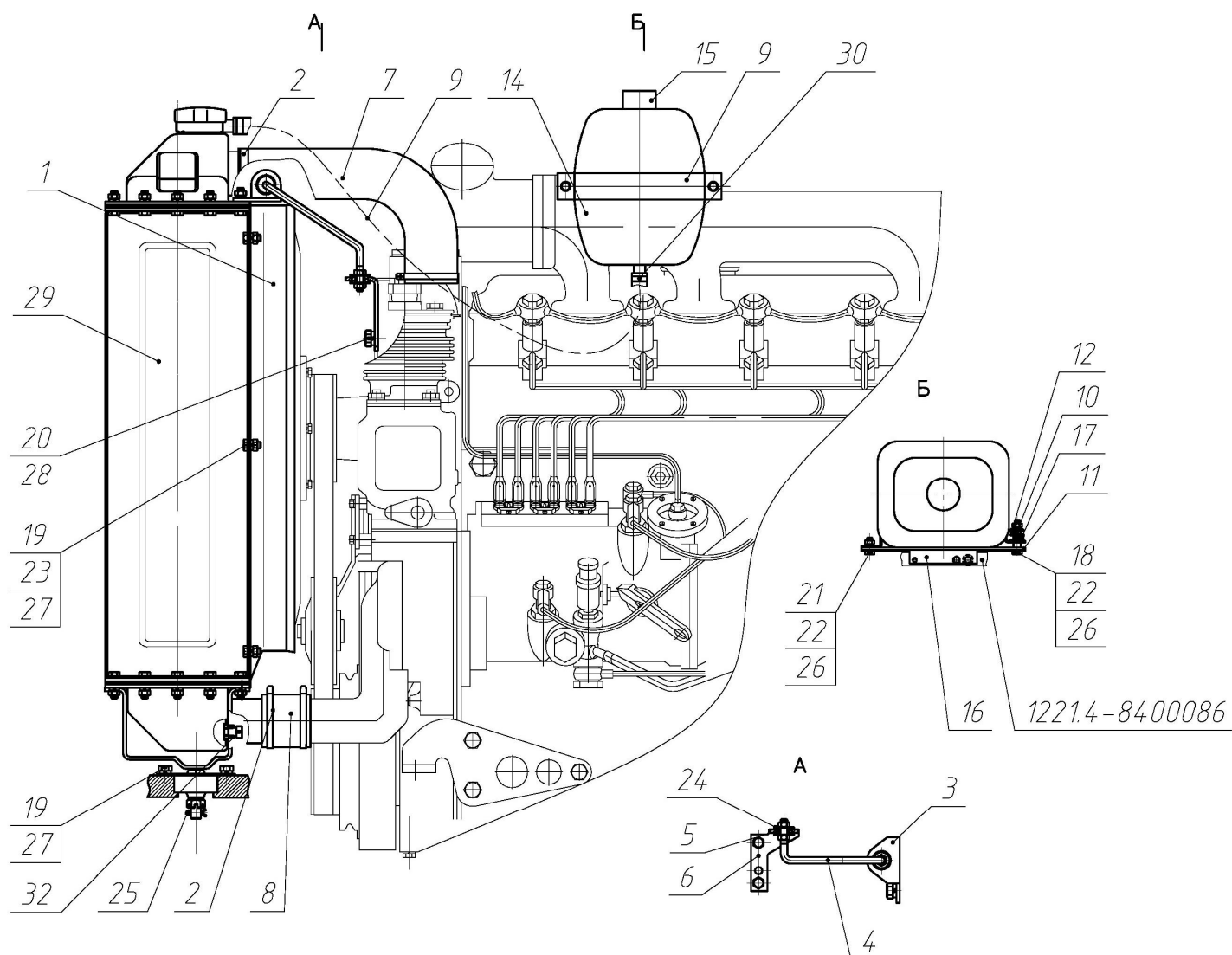


Fig. 13.1 Cooling unit 1523-1301009-01

Group 13. Cooling system
Subgroup 1301. Cooling unit 1523-1301009-01

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
13.1	1	1520-1309080	1	Housing
	2	XC-61*	4	Clamp
	3	1220-1302002	1	Bracket
	4	1520-1302003	1	Tie-rod
	5	85-1302071	4	Shock absorber
	6	1520-1302072	1	Bracket
	7	142-1303010	1	Hose
	8	1220-1303004-01	1	Hose
	9	80-1311002	1	Clamp
	10	80-1311003	1	Bushing
	11	80-1311004	1	Plate
	12	80-1311006	1	Disk
	13	1520-1303001	1	Hose (Hose 14x23-16 GOST 10362-76 L= (700±5))
	14	80П-1311010	1	Expansion tank
	15	80П-1311011	1	Plug
	16	923-1311001	1	Bracket
	17	54.06.413	1	Spring
	18	M6x40	1	Bolt
	19	M8x16	10	Bolt
	20	M10x18	2	Bolt
	21	M6x16	1	Bolt
	22	M6	2	Nut
	23	M8	10	Nut
	24	C8	4	Washer
	25	3,2x18	2	Forelock
	26	6T	2	Washer
	27	8T	10	Washer
	28	10T	2	Washer
	29	1520-1301.010Б-01	1	Water radiator
	30	TORRO 12-20/9-C6W	2	Clamp «NORMA»
	31	TORRO 50-70/9-C6W*	4	Clamp «NORMA»
	32	КГ 1/4" A12.019	1	Plug TU 23.1.506-91

* Interchangeable

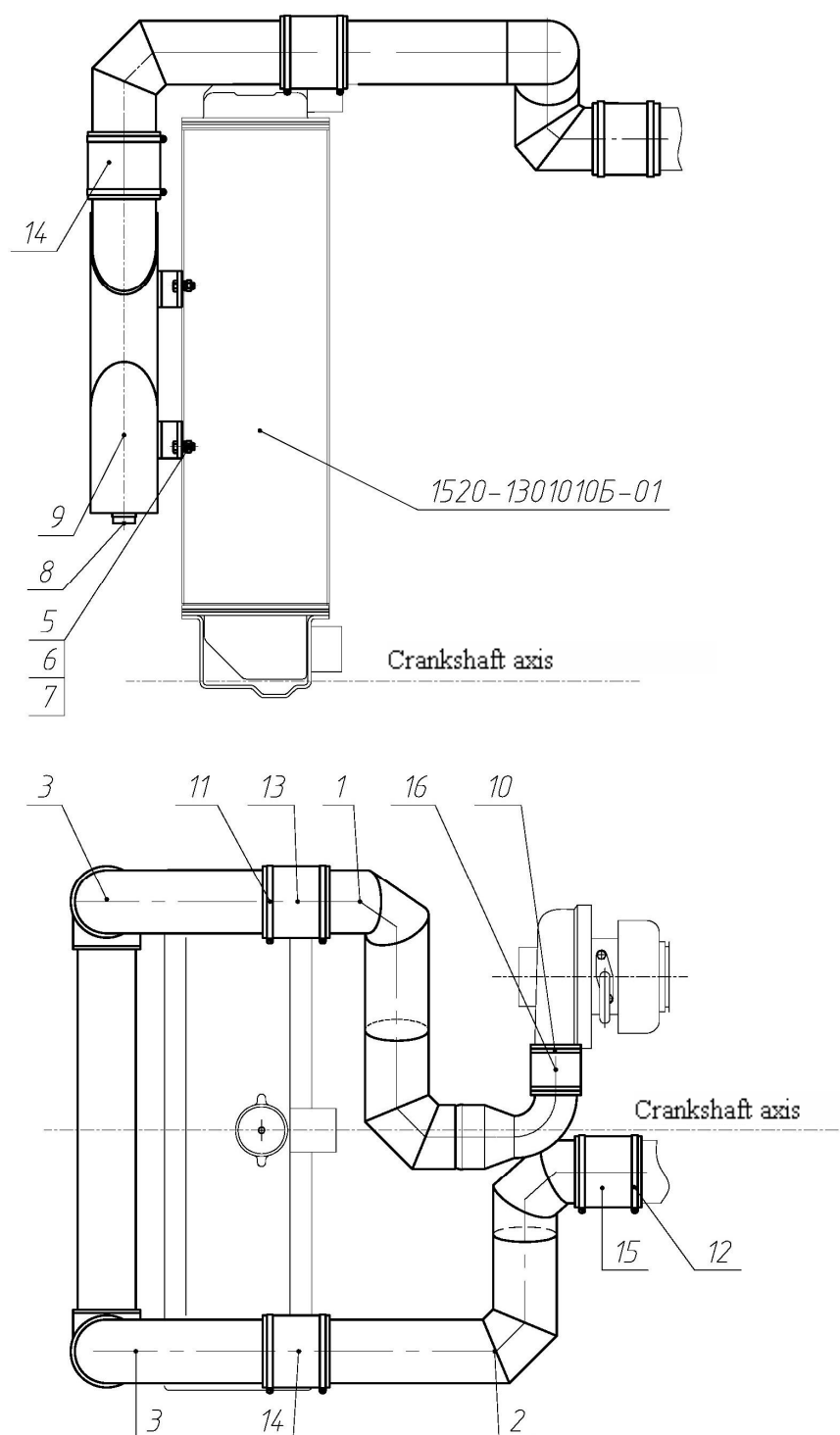


Fig. 13.2 Cooler installation

Group 13. Cooling system
Subgroup 1317. Cooler installation 1523.4-1317010

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
13.2	1	1523-1317600-A	1	Air pipe
	2	1523.4-1317610	1	Air pipe
	3	1523-1317620	2	Air pipe
	4	2022-1317631	1	Gasket
	5	M8x16	4	Bolt
	6	M8	4	Nut
	7	8T	4	Washer
	8	КГ 1/4" A12.019	2	Plug TU 23.1.506-91
	9	1522-1317100	1	Charged 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	Silicon tube 75x100 red
		270 003 152-B TPD 282*	2	Silicon tube «Sico Rubena»
		PR001-75-100-MA*	2	Heat-resistant tube
	14	1317.02*	2	Silicon tube 75x100 blue
		270 003 152-A TPD 282*	2	Silicon tube «Sico Rubena»
		PR001-75-100-PES*	2	Heat-resistant tube
	15	1317.04*	1	Silicon tube 90x120 blue
		270 003 153-A TPD 282*	1	Silicon tube «Sico Rubena»
		PR001-90-120-PES*	1	Heat-resistant tube
	16	1317.09*	1	Silicon tube 50x100 red
		270 003 194-B TPD 282*	1	Silicon tube «Sico Rubena»
		PR001-50-100-PES*	1	Heat-resistant tube

* Interchangeable components

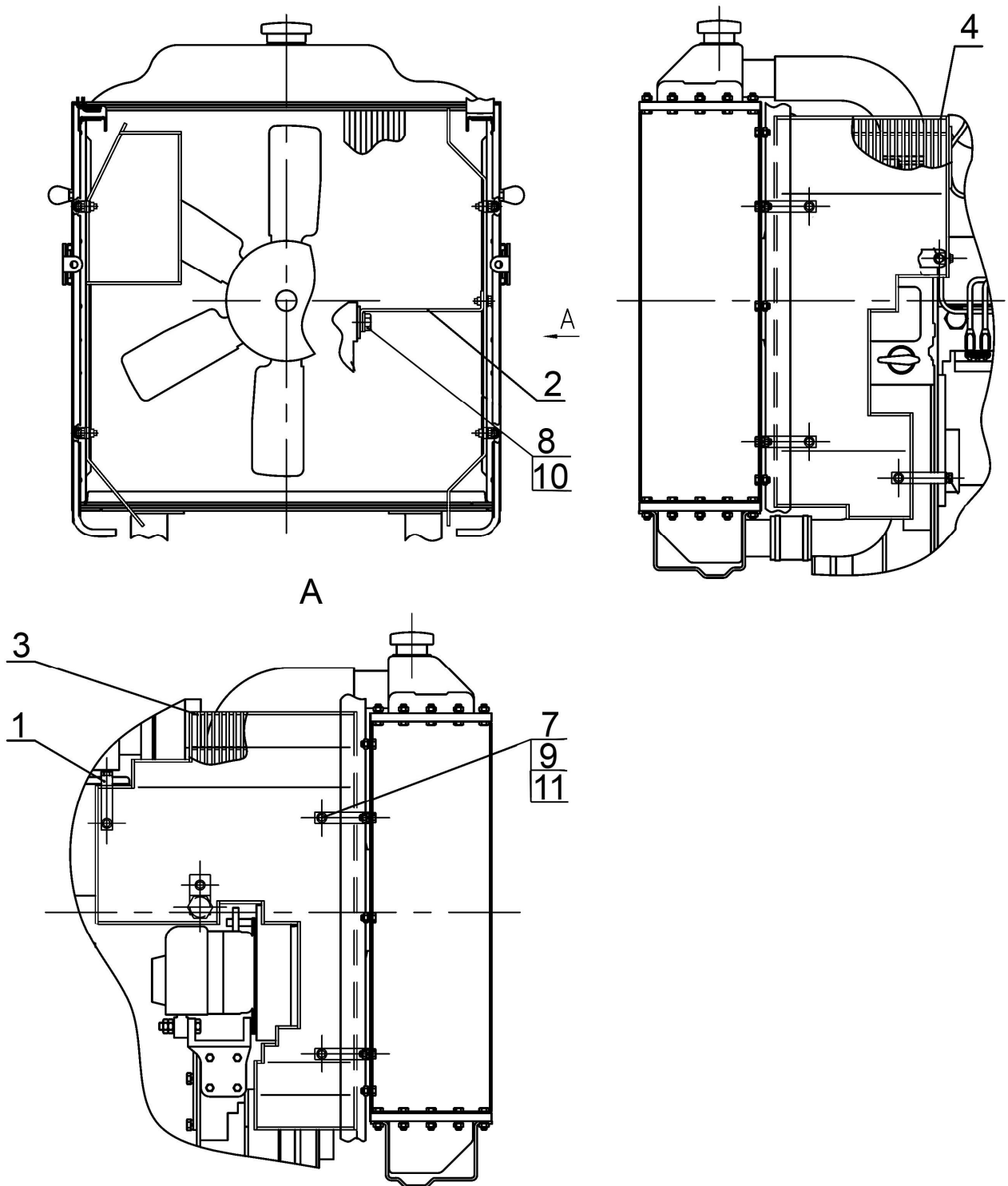


Fig. 13.3 Fan guard

Group 13. Guard system
Subgroup 1309. Fan guard

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
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	M6-6gx16.88.35.019	8	Bolt GOST 7798-70
	8	M16-6gx32.88.35.019	1	Bolt GOST 7796-70
	9	C6.01.019	8	Washer GOST 6958-78
	10	C16.01.019	1	Washer GOST 11371-78
	11	6T	8	Washer OST 37.001.115-75

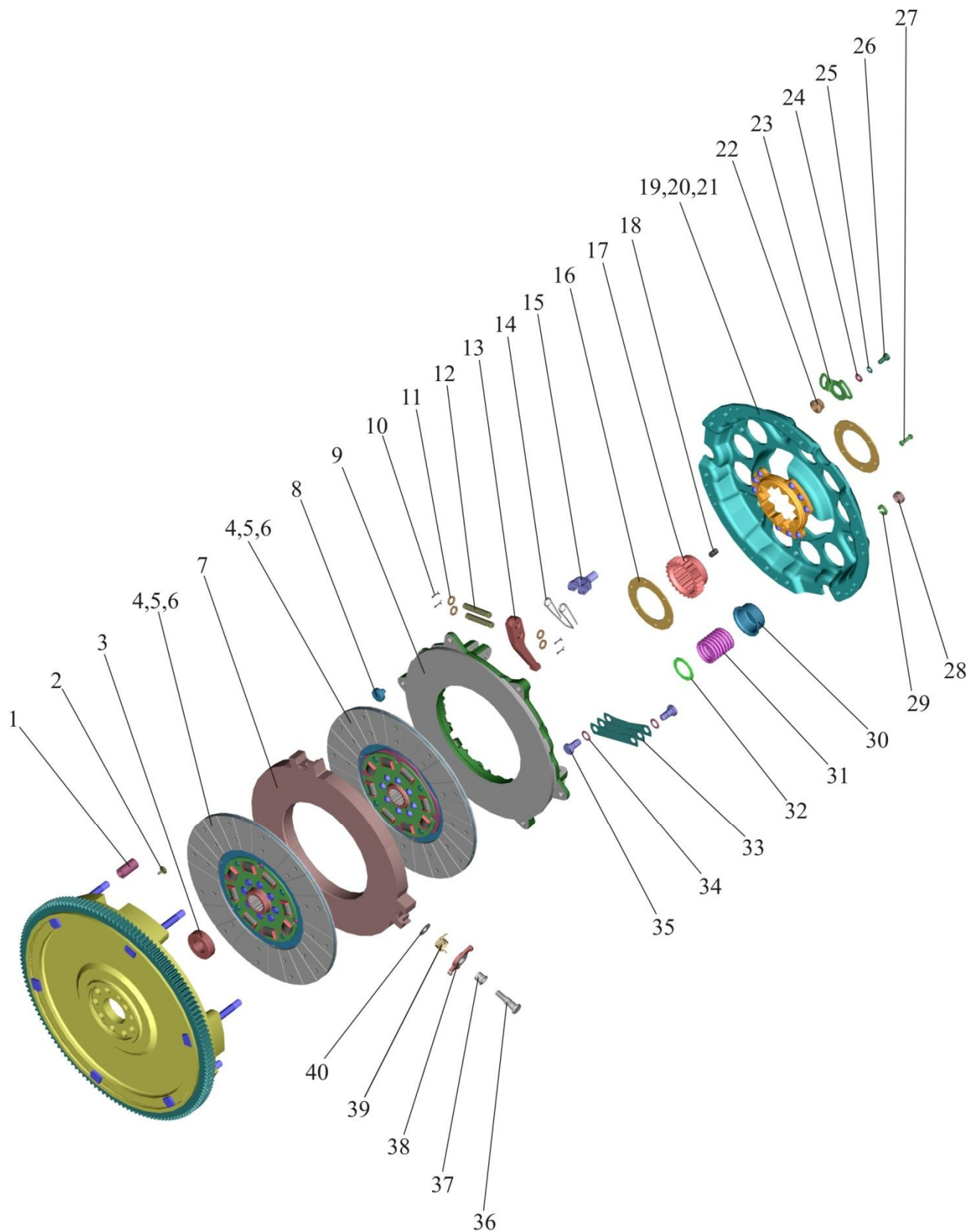


Fig. 16. 1 Clutch installation 260.1-1005009

Group 16. Clutch
Subgroup 1601. Clutch installation 260.1-1005009

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.1		260.1-1005009	1	Clutch installation (1-40)
		1520-1601085	1	Center plate (7, 36-40)
		85-1601090-B	1	Clutch disk (8-35)
		1522-1601120	1	Backing plate (16-18, 21, 27)
	1	70-1601074	6	Bushing
	2	142-1601316	3	Cotter
	3	180205K1C17	1	Bearing
	4	85-1601130-01	2	Driven disk (assembled with 5 and 6)
	5	70-1601138-01	2	Friction plate (enclosed into 4)
	6	2-4x8.32	48	Non-threaded fastener GOST 12642-80 (enclosed into 4)
	7	1520-1601092	1	Center plate
	8	1520-1601123	3	Thrust
	9	85-1601093-B	1	Pressure disk
	10	3,2x18.019	12	Forelock 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	8x22.01	9	Non-threaded fastener GOST 10299-80 (enclosed into 21)
	20	1522-1601051	1	Hub (enclosed into 21)
	21	1522-1601125	1	Backing plate (assembled with 19 and 20)
	22	85-1601109-A	3	Adjusting nut
	23	85-1601086	3	Lock washer
	24	C 8.01.019	6	Washer GOST 11371-78
	25	8 T	6	Washer OST 37.001.115-75
	26	M8x16	6	Bolt GOST 7796-70
	27	6x30.01	6	Non-threaded fastener GOST 10299-80
	28	M12x1,25	9	Nut GOST 5915-70
	29	12 OT	9	Washer OST 37.001.115-75
	30	85-1601072-B	9	Sleeve
	31	85-1601115	9	Spring
	32	85-1601118-B	9	Insulating washer
	33	85-1601124	9	Plate
	34	85-1601121	6	Washer
	35	85-1601126	6	Bolt
	36	142-1601306	3	Release lever axis
	37	142-1601088	3	Bushing
	38	142-1601087-B	3	Release lever
	39	142-1601314-B	3	Spring
	40	142-1601089	3	Lock washer

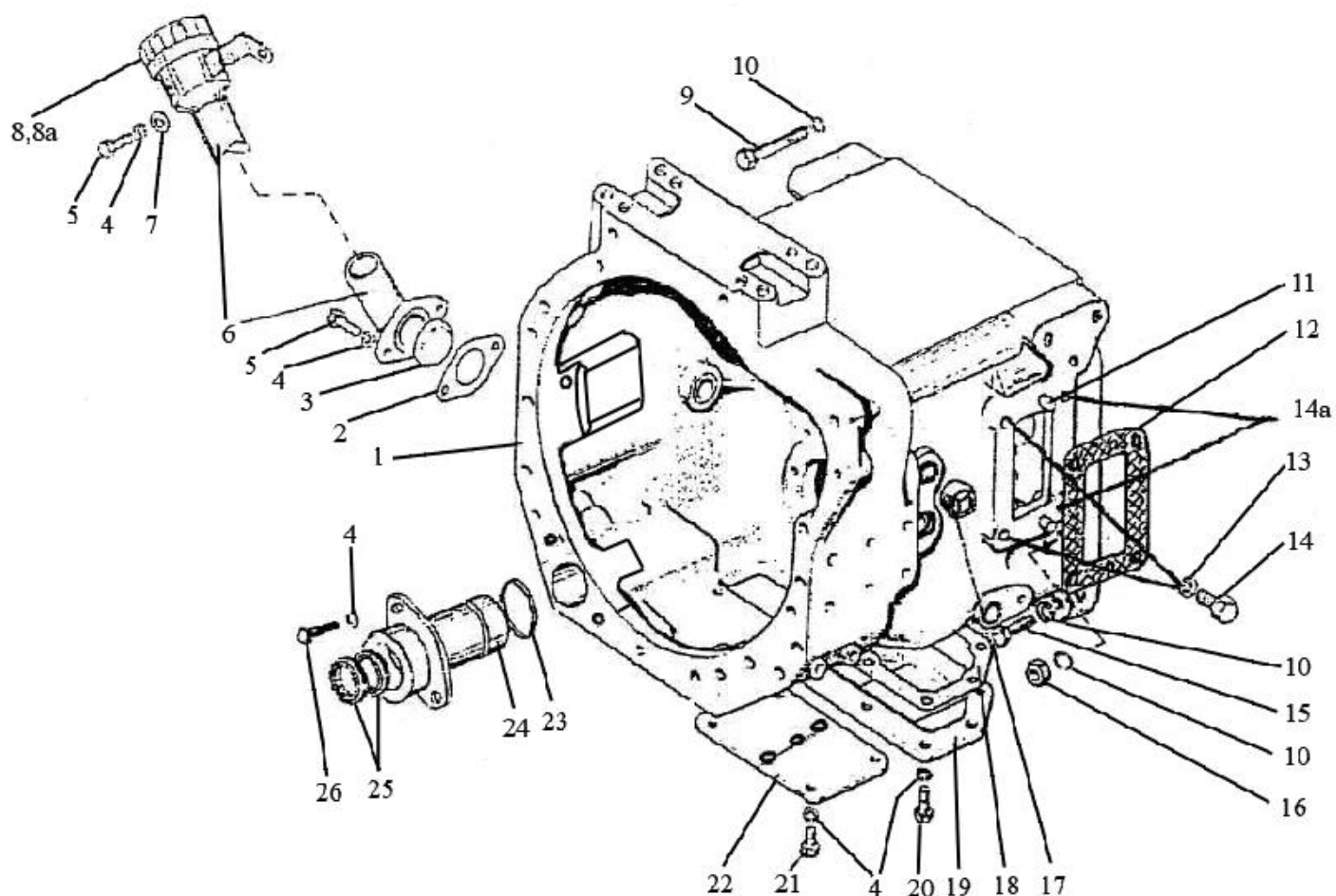
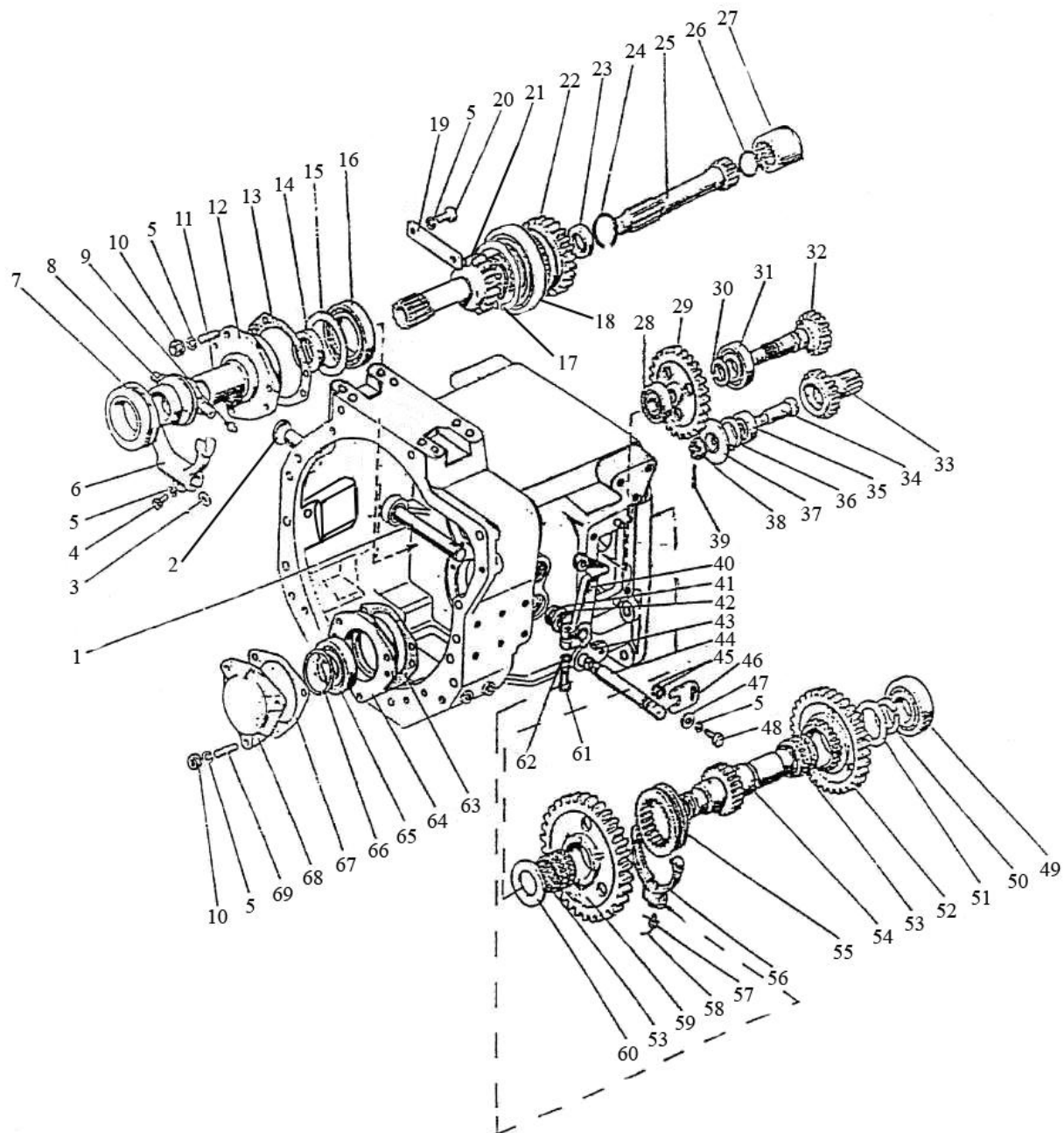


Fig. 16.2 Clutch housing (with GB 24x12)

Group 16. Clutch
Subgroup 1601.Clutch housing

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.2		86-1802015-B	1	Cage (23-25)
		1522-1601300	1	Filler neck (6, 8, 8a)
	1	1522-1601015-01	1	Housing
	2	240-1002082-A	1	Gasket
	3	240-1002085	1	Net
	4	ШП8	16	Washer
	5	M8x20	3	Bolt
	6	1522-1601310	1	Filler neck
	7	ШЧ8	1	Washer
	8	082-1103010	1	Plug
	8a	36-1101070	1	Chain
	9	70-4605036-03	1	Bolt
	10	ШП20	6	Washer
	11	ШЛК 10x25	2	Pin
	12	80-1601343	1	Gasket
	13	ШП12	4	Washer
	14	M12x30	2	Bolt
	14a	M12x150	2	Bolt
	15	70-4605036	4	Bolt
	16	M20	1	Nut
	17	70-1701301	1	Plug
	18	80-1601314	1	Gasket
	19	80-1601313	1	Cover
	20	M8x25	7	Bolt
	21	M8x16	4	Bolt
	22	50-1601341	1	Cover
	23	048-052-25-2-4	1	Ring
	24	86-1802020	1	Cage
	25	2.2-38x58-1	2	Collar
	26	M8x35	2	Bolt



29

Group 16. Clutch
Subgroup 1601.Clutch housing

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.3		1522-1601040	1	Sleeve (64, 65)
		1522-1601050	1	Shaft (1522-1601055, 16, 21, 23, 24)
		1522-1601055	1	Gear(17, 18, 22)
		80-1601070	1	Gear shaft (30-32)
		80-1601180	1	Gear (33-36)
		50-1601180-A	1	Shifter (7-9)
		1225-1601160	1	Shaft (49-52, 53 – 1 piece, 54)
		2022-1601060	1	Bushing (26, 27)
		80-1601030-01	1	Shifter bracket (12, 14)
	1	85-1601215	1	Shaft
	2	50-1601022	1	Blind plug
	3	50-1601218	1	Key
	4	M10x30	1	Bolt
	5	ШП10	10	Washer
	6	85-1601203	1	Yoke
	7	986714KC17	1	Bearing
	8	50-1601185-A	1	Shifter
	9	1.1.Ц9.xp	1	Oiler
	10	M10	6	Nut
	11	M10x3p/6gx25	3	Stud
	12	85-1601172	1	Bracket
	13	80-1601173	1	Gasket
	14	240-1002055	1	Collar
	15	80-1601319	1	Washer
	16	6-12115ЕМУШ1	1	Bearing
	17	C105	1	Ring
	18	76-1000921	1	Bearing
	19	80-1601318	1	Plate
	20	M10x25	2	Bolt
	21	1522-1601026	1	Shaft
	22	1522-1601027	1	Gear
	23	2.2-38x58	1	Collar
	24	2C75	1	Ring
	25	1222-1601113	1	Shaft
	26	C45	1	Ring
	27	2022-1601061	1	Bushing
	28	305A	1	Bearing
	29	80-1601357-B	1	Gear
	30	C35	1	Ring

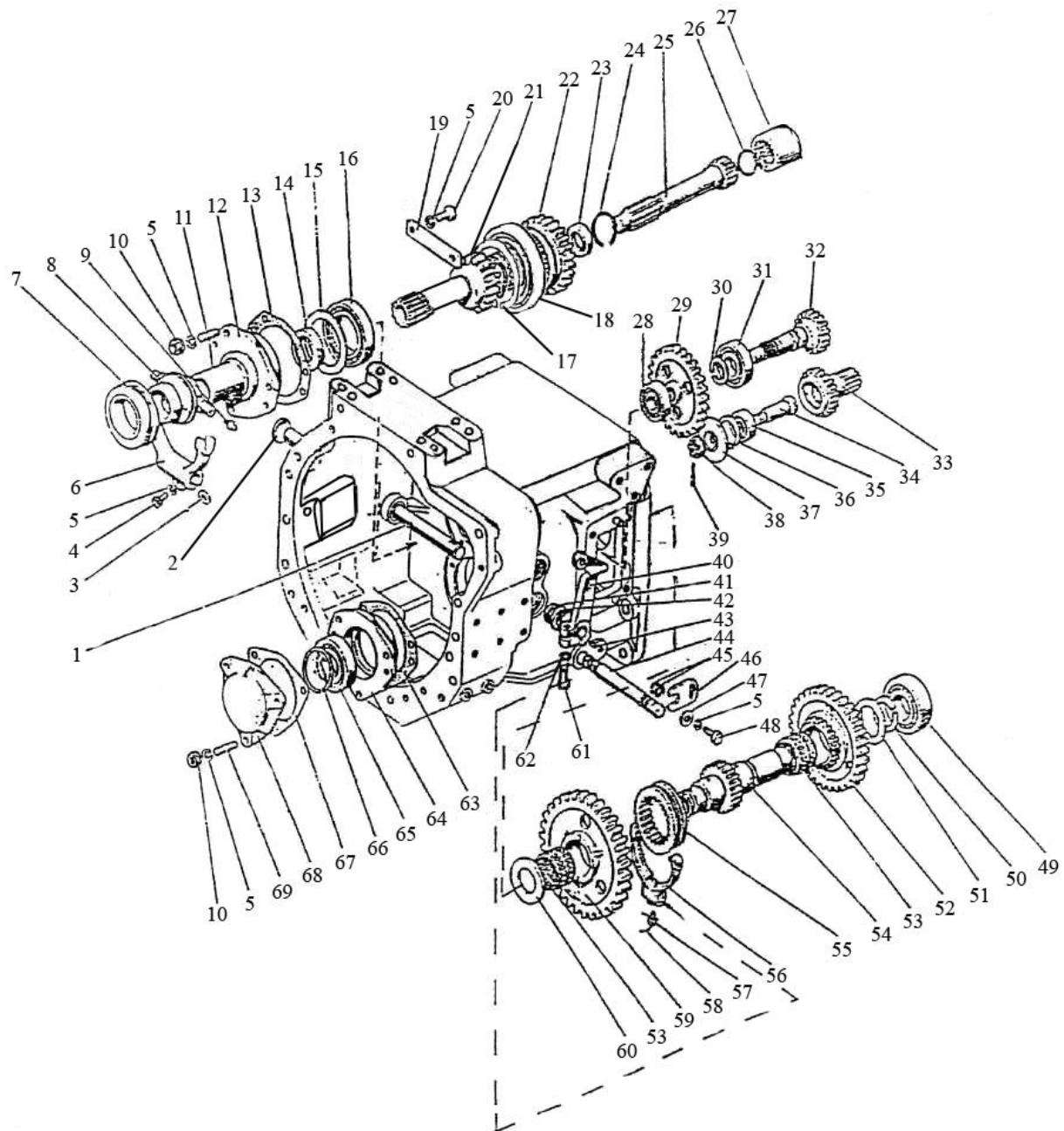
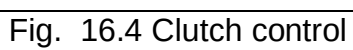


Fig. 16.3 Clutch housing (2022-1600010-A-01) (with GB 24x12)

Group 16. Clutch
Subgroup 1601. Clutch housing

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.3	31	207	1	Bearing
	32	80-1601071-B	1	Shaft-gear
	33	80-1601182	1	Gear
	34	80-1601181	1	Axis
	35	204A	1	Bearing
	36	C47	1	Ring
	37	80-1601356	1	Thrust washer
	38	70-3003032	1	Nut
	39	3,2x25	1	Forelock
	40	1522-1601219	1	Lever
	41	80-4608024	1	Ring
	42	36-1601016	1	Housing
	43	СШ-611	1	Key 6x11
	44	85-1601111	1	Shaft
	45	020-025-30-1-4	2	Ring
	46	85-1601099	1	Plate
	47	ШЧ10	1	Washer
	48	M10x20	1	Bolt
	49	210AYШ1	1	Bearing
	50	2C55	1	Ring
	51	2125-1601082	1	Washer
	52	2125-1601086	1	Gear
	53	SKF K55x63x32	2	Bearing
	54	1225-1601021	1	Shaft
	55	112-1701343	1	Clutch
	56	80-1601190	1	Yoke
	57	50-4604046	1	Yoke bolt
	58	1,0-O-C	150 mm	Wire
	59	2125-1601088	1	Gear
	60	2022-1601081	1	Washer
	61	M12x35	1	Bolt
	62	ШП12	1	Washer
	63	80-1601091	1	Gasket
	64	1522-1601041	1	Sleeve
	65	102210KM	1	Bearing
	66	2C50	1	Ring
	67	80-1601092	1	Gasket
	68	1522-1601089	1	Cover
	69	M10x3p/6gx35	3	Stud



Group 16. Clutch.
Subgroup 1602. Clutch control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.4		1522-1602010	1	Forward motion clutch control
	1	822-1602120	1	Tank (see Fig.41)
	4	80-1602116	5	Eye-loop
	5	70-4616033 spare part	1	Spring
	6	4x36	2	Forelock
	7	50-3406037	1	Washer
	8	M8x35	3	Bolt
	9	M8	3	Nut
	10	822-3502203	1	Yoke
	11	3,2x18	2	Forelock
	12	12x32	2	Pin
	13	1522-1602090	1	Pedal
	14	M10	1	Nut
	15	1522-1602030	1	Bracket
	16	M10x25	4	Bolt
	17	10 OT	4	Washer
	18	8T	4	Washer
	19	2022-1602810	1	Main cylinder (see Fig. 36)
	20	822-3503083	1	Union body
	21	Д18-055-A	2	O-ring
	22	1522-3407016	1	Union body
	23	025-029-25-2-2	1	Ring
	24	1522B-3407100-03	1	High pressure hose
	25	M8x25	2	Bolt
	26	80B-1602106-B	1	Elbow
	27	822-3503155	1	Union body
	28	2022-1602200	1	Flexible coupling hose, type II
	29	923-3503221	2	Nipple
	30	Д80-4607212	2	Nut
	31	822-3503701	1	Union body
	32	2522-1602595	1	Pipe line
	33	1523-1602550	1	Working cylinder (see Fig.39)
	34	16x40	1	Pin
	35	C 16	3	Washer
	36	40-3405061-A	1	Union body
	37	40-3405062	1	Nut
	38	017-022-30-1-4	1	Ring
	39	80-1602510-01	1	Hydraulic booster (see Fig.38)
	40	M12x90	2	Bolt
	41	12 OT	3	Washer
	42	1522-1602067	1	Bracket
	43	M16x50	3	Bolt
	44	16 OT	3	Washer
	45	1221B-1602112	1	Rod
	46	M12x1,25	1	Nut
	47	50-3502203	1	Yoke
	48	1522-1601219	1	Lever

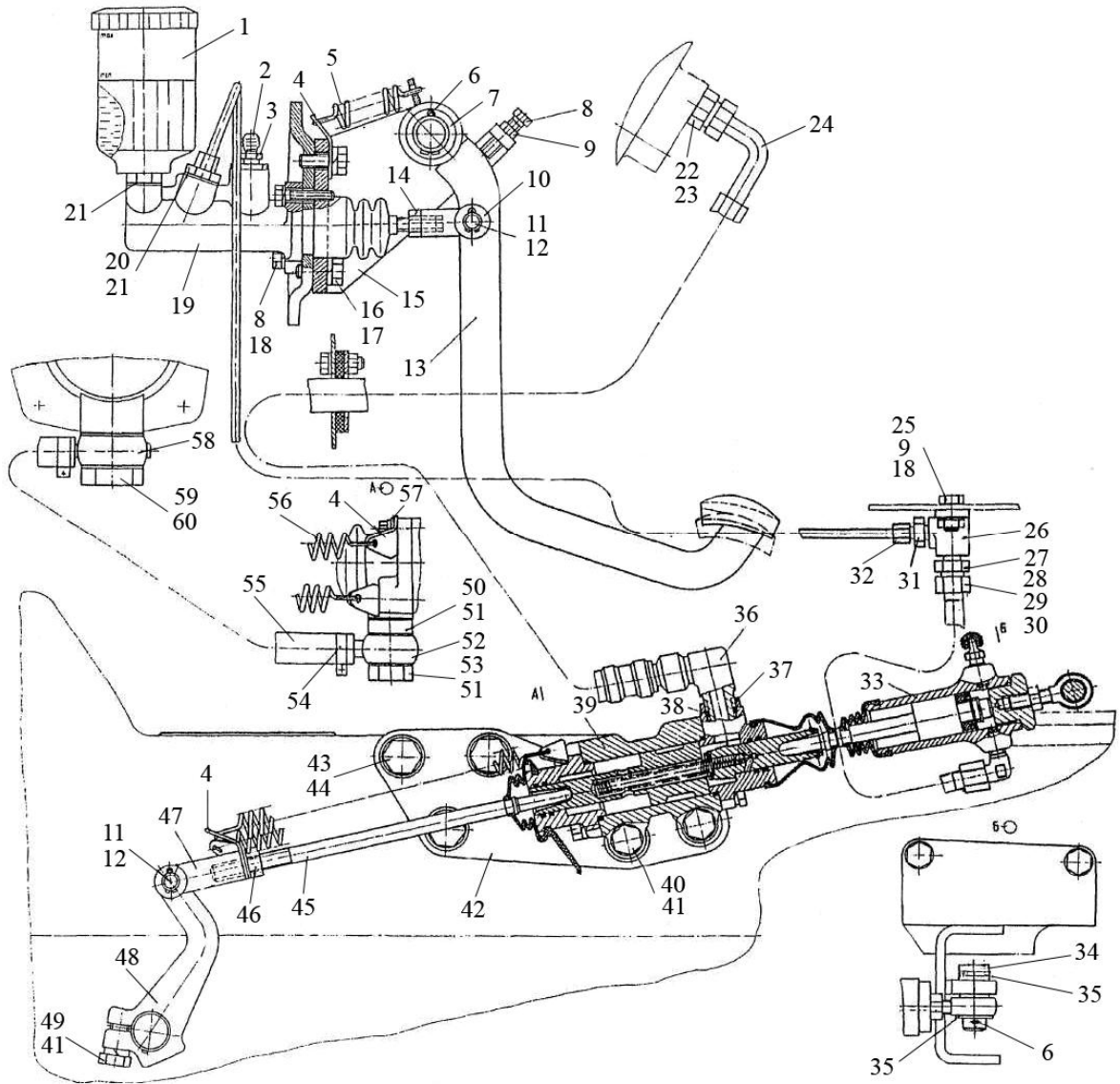


Fig. 16.4 Clutch control

Group 16. Clutch.
Subgroup 1602. Clutch control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.4	49	M12x35	1	Bolt
	50	1522-1602034	1	Bushing
	51	40-4607038-A	3	Washer
	52	C80-4607380	1	Pipe
	53	40-4607051	1	Bolt
	54	XC-21	2	Clamp
	55	1522-1602711	1	Hose
	56	50-1605152	2	Spring
	57	C8	2	Washer
	58	1221-3407130	1	Oil pipeline
	59	1221-3407140-01	1	Valve
	60	40- 4607033-A	2	Washer

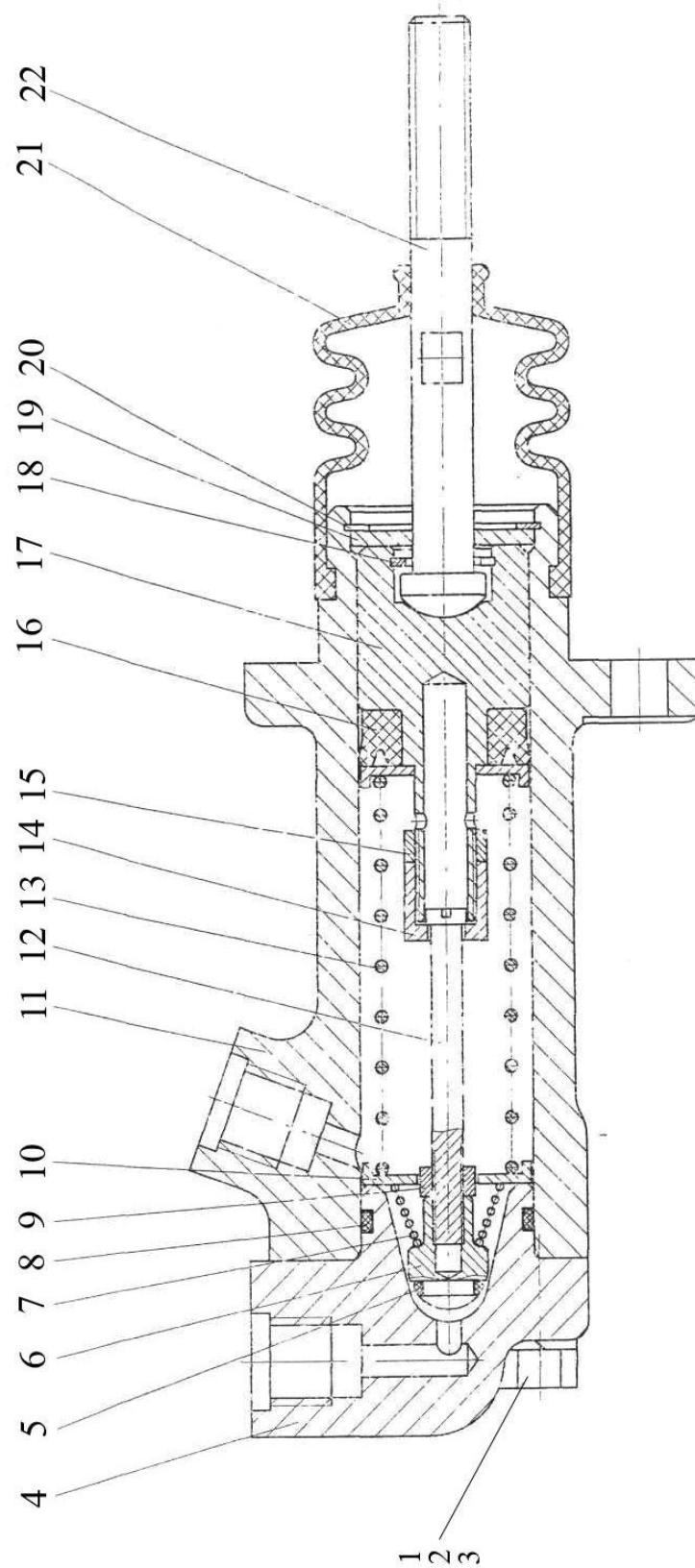


Fig. 16.5 Main cylinder

Group 16. Clutch.
Subgroup 1602. Main cylinder 2022-1602810

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.5		2022-1602810		Main cylinder
	1	M8x25	2	Bolt
	2	M8x40	2	Bolt
	3	8T	4	Washer
	4	2022-1602812	1	Cover
	5	007-011-25-1-6	1	Ring
	6	2022-16-02823	1	Valve
	7	2022-1602838	1	Spring
	8	024-028-25-2-4	1	Ring
	9	M5	1	Nut
	10	2022-1602824	2	Washer
	11	2022-1602811	1	Housing
	12	2022-1602822	1	Lifter
	13	2022-1602841	1	Spring
	14	2022-1602827	1	Captive nut
	15	2022-1602826	1	Nut
	16			Collar N 14-102 (14x28x10) Simrit 85 EPDMV MOO 282
	17	2022-1602821	1	Piston
	18	C16	1	Ring
	19	C16	1	Washer
	20	C30	1	Ring
	21	142-1602569	1	Case
	22	2022-1602813	1	Lifter

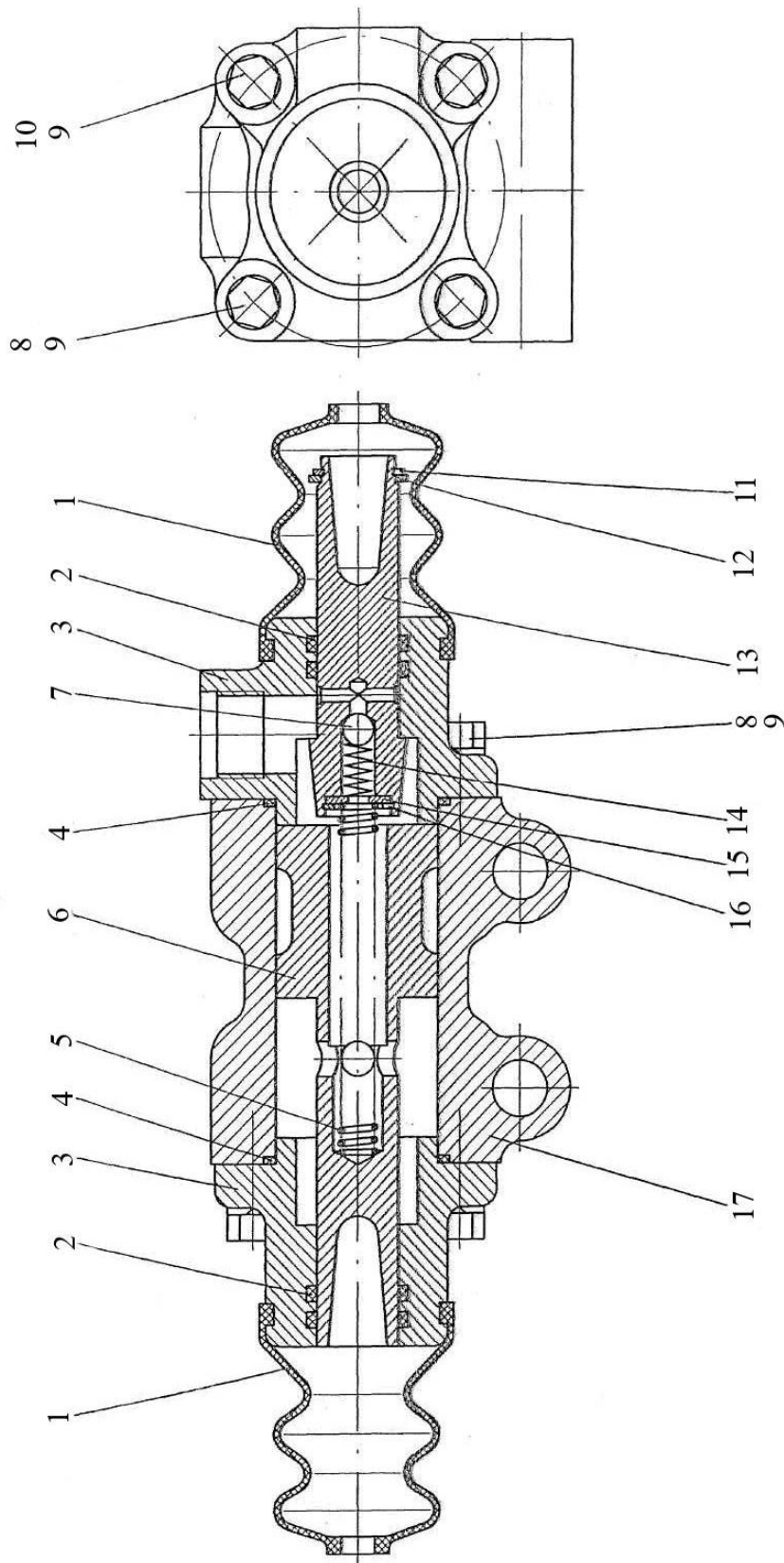


Fig. 16.6 Hydraulic booster

Group 16. Clutch.
Subgroup 1602. Hydraulic booster

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.6		80-1602510-01	1	Hydraulic booster
	1	142-1602543	2	Case
	2	020-025-30-1-4	4	Ring
	3	80-1602512	2	Cover
	4	040-044-25-1-2	2	Ring
	5	80B-1602046	1	Spring
	6	80-1602513	1	Piston
	7	6,350-100	1	Ball
	8	M8x25	4	Bolt
	9	8T	8	Washer
	10	M8x40	4	Bolt
	11	C18	1	Ring
	12	80-1602514	1	Ring
	13	80-1602521	1	Lifter
	14	80-3405044	1	Spring
	15	C5	1	Washer
	16	C16	1	Ring
	17	80-1602511	1	Housing

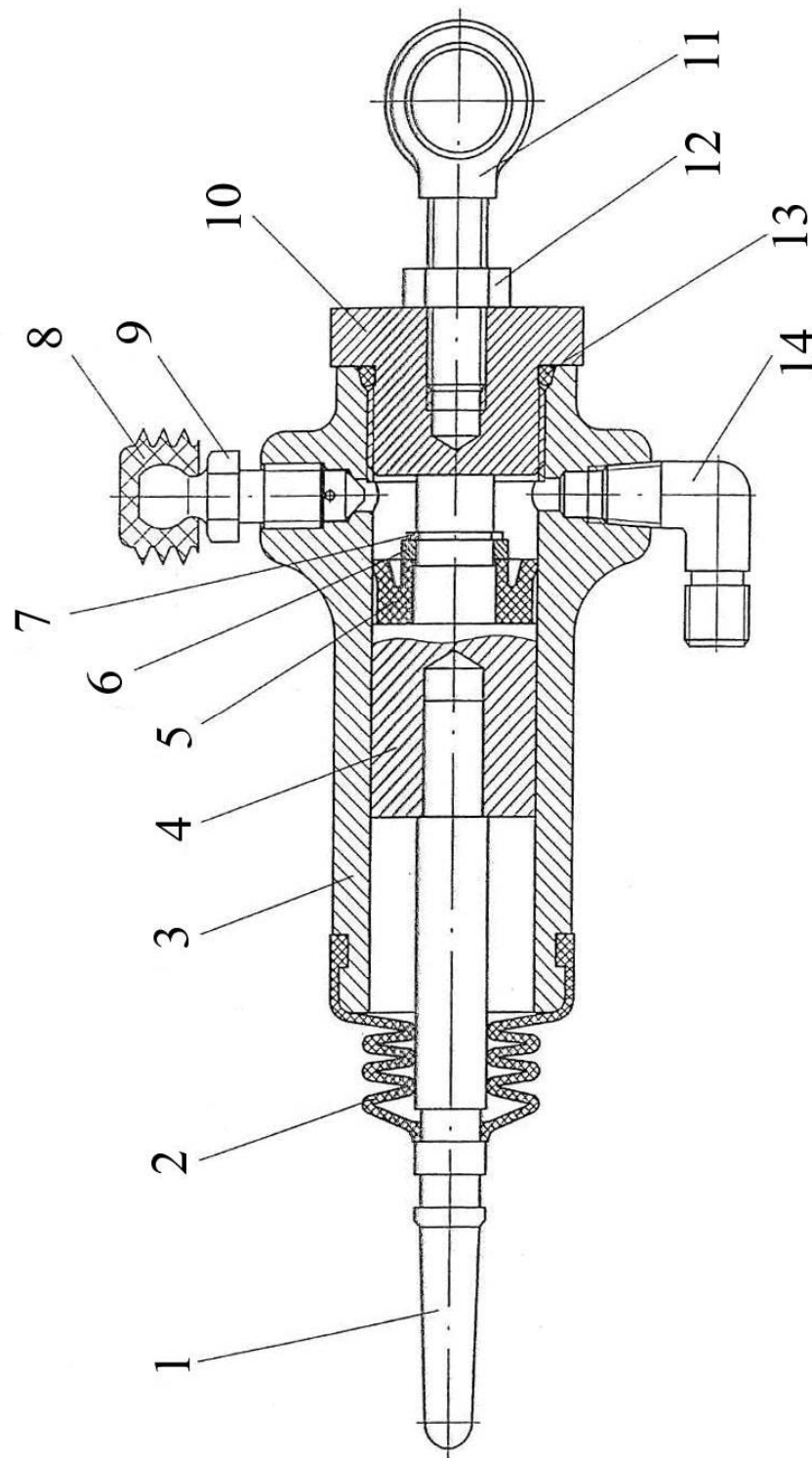


Fig. 16.7 Working cylinder

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.7		1523-1602550	1	Cylinder
	1	80B-1602557	1	Push rod
	2	142-1602569	1	Case
	3	1221B-1602551	1	Housing
	4	1221B-1602556	1	Piston
	5		1	Collar N14-102 (14x28x10) Simrit 85 EPDMV MOO 282
	6	1221B-1602517-B	1	Distance bushing
	7		1	Ring C13 GOST 13940-86
	8	142-1602377	1	Cap
	9	142-1602371	1	Valve
	10	1221B-1602561	1	Cover
	11	1523-1602566	1	Support
	12		1	Nut M10-6H.6.019 GOST 5915-70
	13		1	Ring 027-031 -25-2-6 GOST 18829-73/GOST 9833-73
	14	822-3503037	1	Elbow

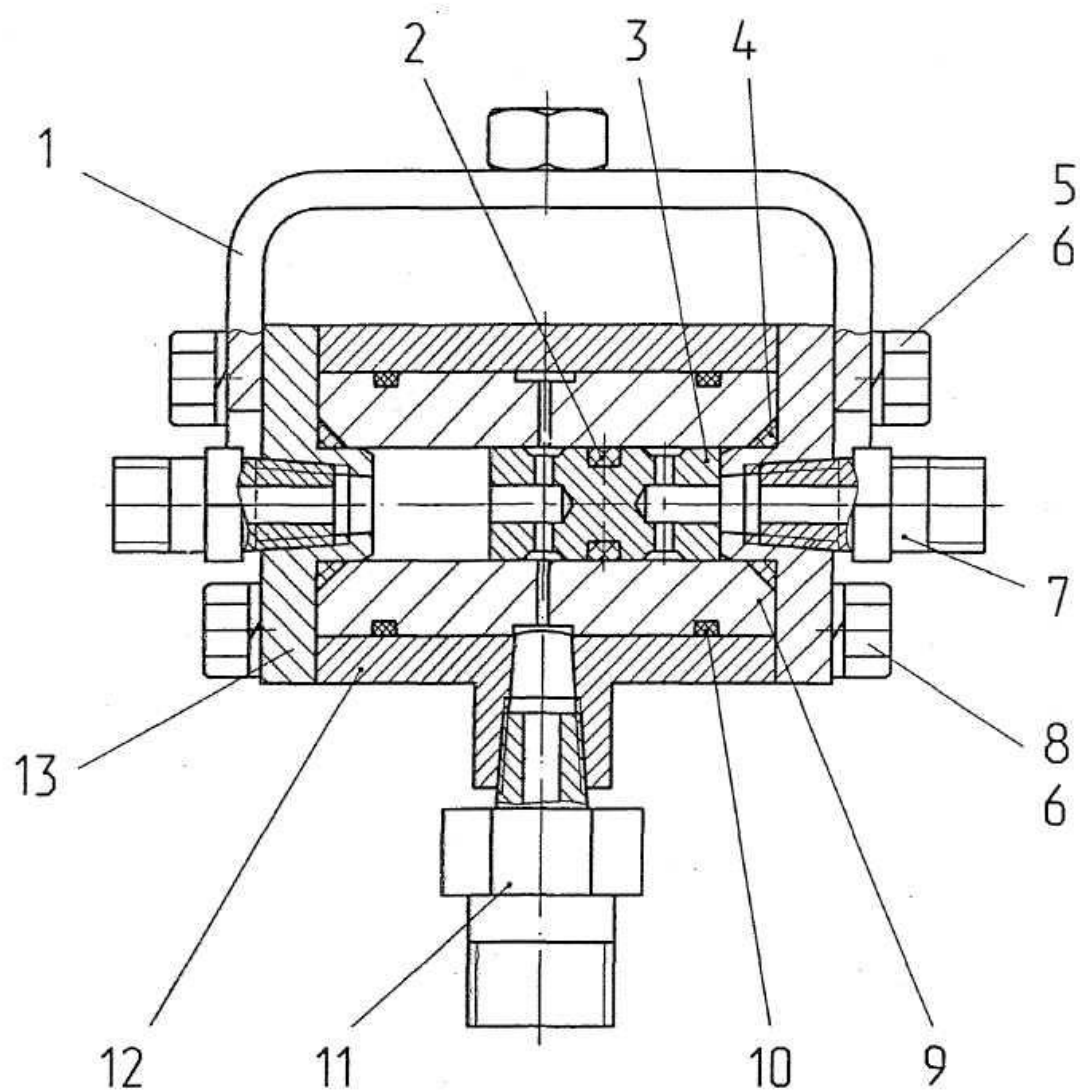


Fig.16.8 Cock

**Group 16. Clutch.
Subgroup 1602. Cock**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.8		2822-1602100-03	1	Cock
	1	2822-1602110	1	Bracket
	2	008-012-25-2-6	1	Ring
	3	2822-1602104	1	Piston
	4	012-016-25-2-6	2	Ring
	5	M6x25	4	Bolt
	6	6T	8	Washer
	7	80-1701549	2	Union body
	8	M6x20	4	Bolt
	9	2822-1602102	1	Housing
	10	025-028-19-2-6	2	Ring
	11	822-3503155	1	Union body
	12	2822-1602101	1	Housing
	13	2822-1602103	2	Cover

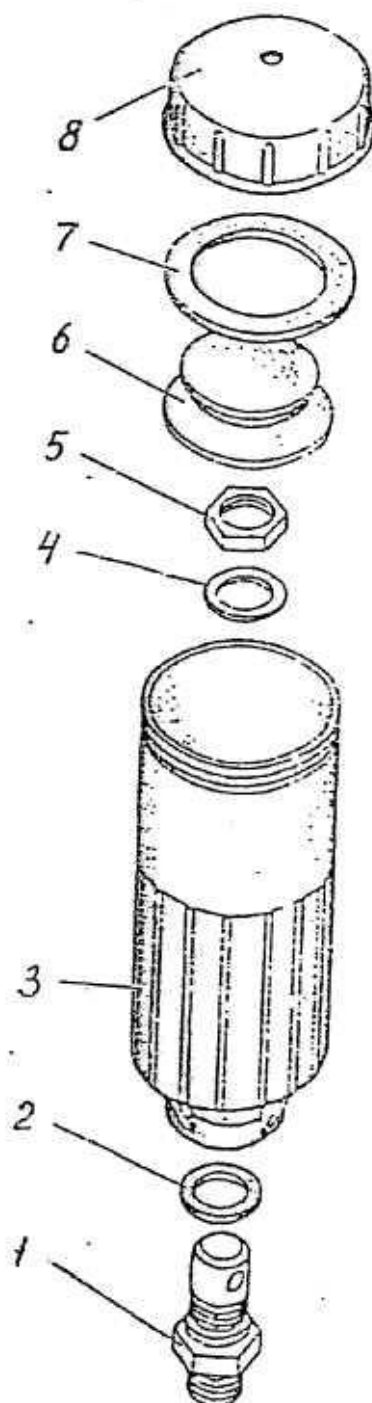


Fig. 16.9 Tank

**Group 16. Clutch.
Subgroup 1602. Tank**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
16.9		822-1602120	1	Tank
	1	822-1602126	1	Union body
	2	822-1602127	1	Ring
	3	822-1602121	1	Housing
	4	C 12	1	Washer
	5	M12x1,25	1	Nut
	6	822-1602123	1	Disk
	7	822-1602124	1	Gasket
	8	822-1602122	1	Cover

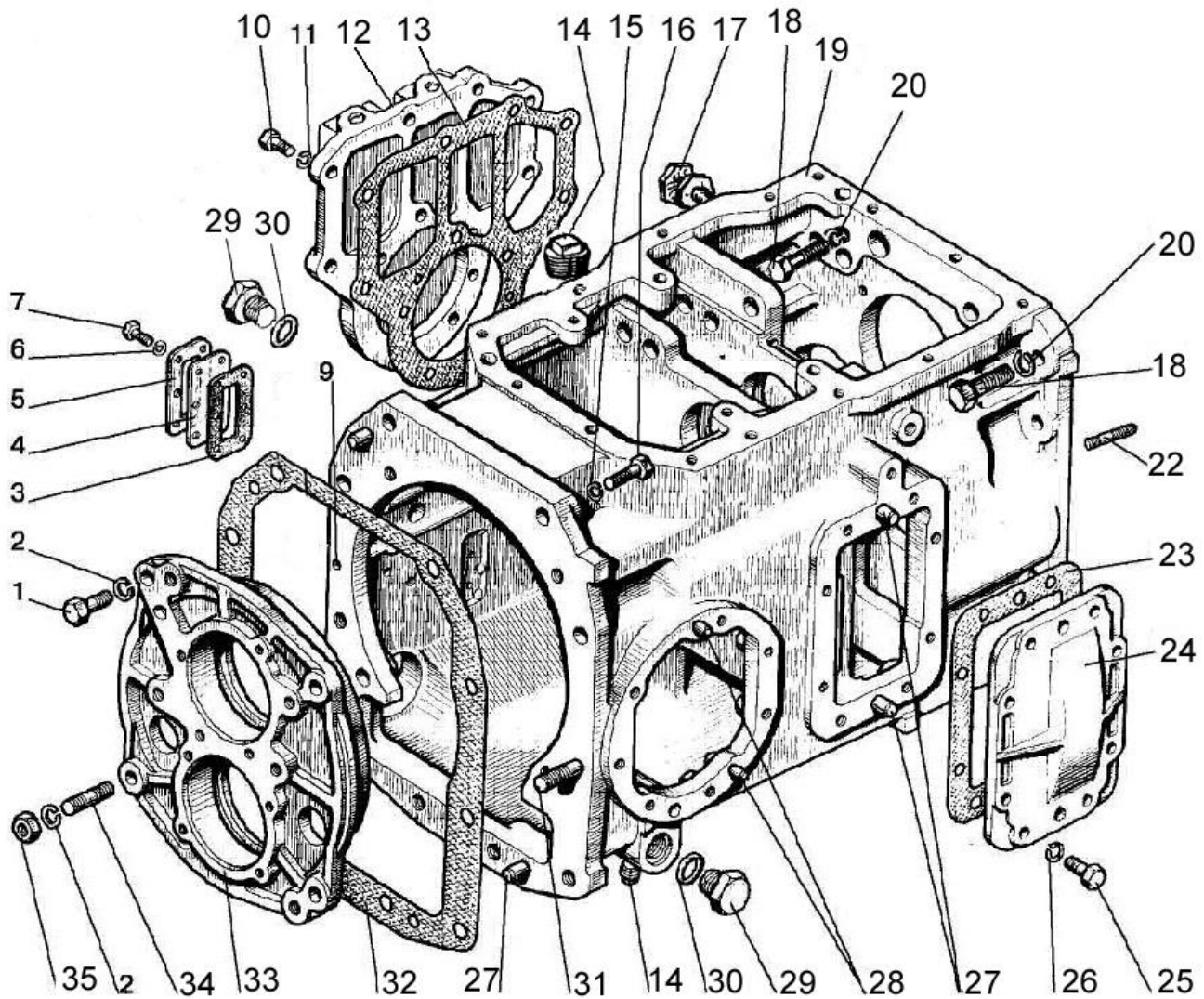


Fig. 17.1 Gear box (GB) 1522-1700010

Group 17 Gear box (GB)
Subgroup 1701. Gear box 1522-1700010

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.1		1522-1700010	1	Gear box (GB) assembly
	1	M16-6gx45.88.35.019	3	Bolt GOST 7796-70
	2	16 OT	4	Washer OST 37.001.115-75
	3	85-4608086-A	1	Gasket
	4	85-4608087	1	Indicator
	5	85-4608088	1	Plate
	6	6T	6	Washer OST 37.001.115-75
	7	M6-6gx16.88.35.019	6	Bolt GOST 7798-70
	9		1	Ball 10,0-60 GOST 3722-81
	10	M10-6gx30.88.35.019	13	Bolt GOST 7796-70
	11	10 OT	13	Washer OST 37.001.115-75
	12	1221-1802016	1	Cover
	13	80-1701399-B	1	Gasket
	14	ПК КГ 3/8"	2	Plug
	15	20 OT	4	Washer OST 37.001.115-75
	16	70-4605036	4	Bolt
	17	50-1002318-B	2	Eye-bolt
	18	1221-2401011-01	9	Bolt (M18x60)
	19	1522-1701025*	1	Housing
	20	18 OT	9	Washer OST 37.001.115-75
	22	1522-1701525	3	Stud
	23	50-17014456-A	1	Gasket
	24	70-1701454-A2-01	1	Cover
	25	M12-6gx30.88.35.019	7	Bolt GOST 7796-70
	26	12 OT	7	Washer OST 37.001.115-75
	27	Д01-015	4	Pin
	28	ШЦК 10x25	4	Pin
	29	80-4608021	2	Blind plug
	30	027-032-30-1-4	2	Ring
	31	80-17015525	1	Stud
	32	80-1701026	1	Gasket
	33	80-1701034-01	1	Sleeve
	34	80-1701204	1	Stud
	35	M16-6H.6.019	1	Nut GOST 5915-70

* When ordering as a spare part, 1522-1701025-B housing should be ordered.

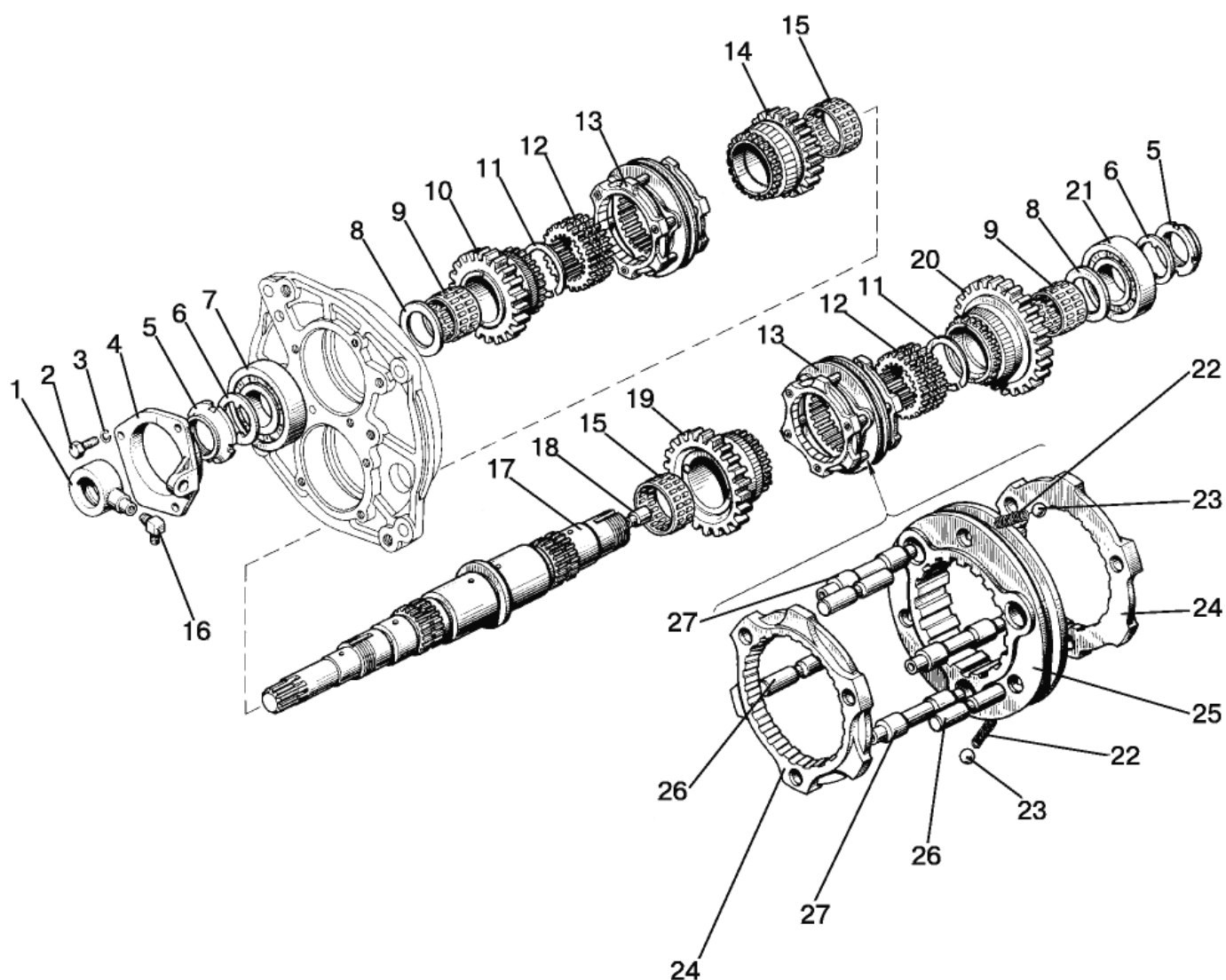


Fig. 17.2 Primary shaft

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

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

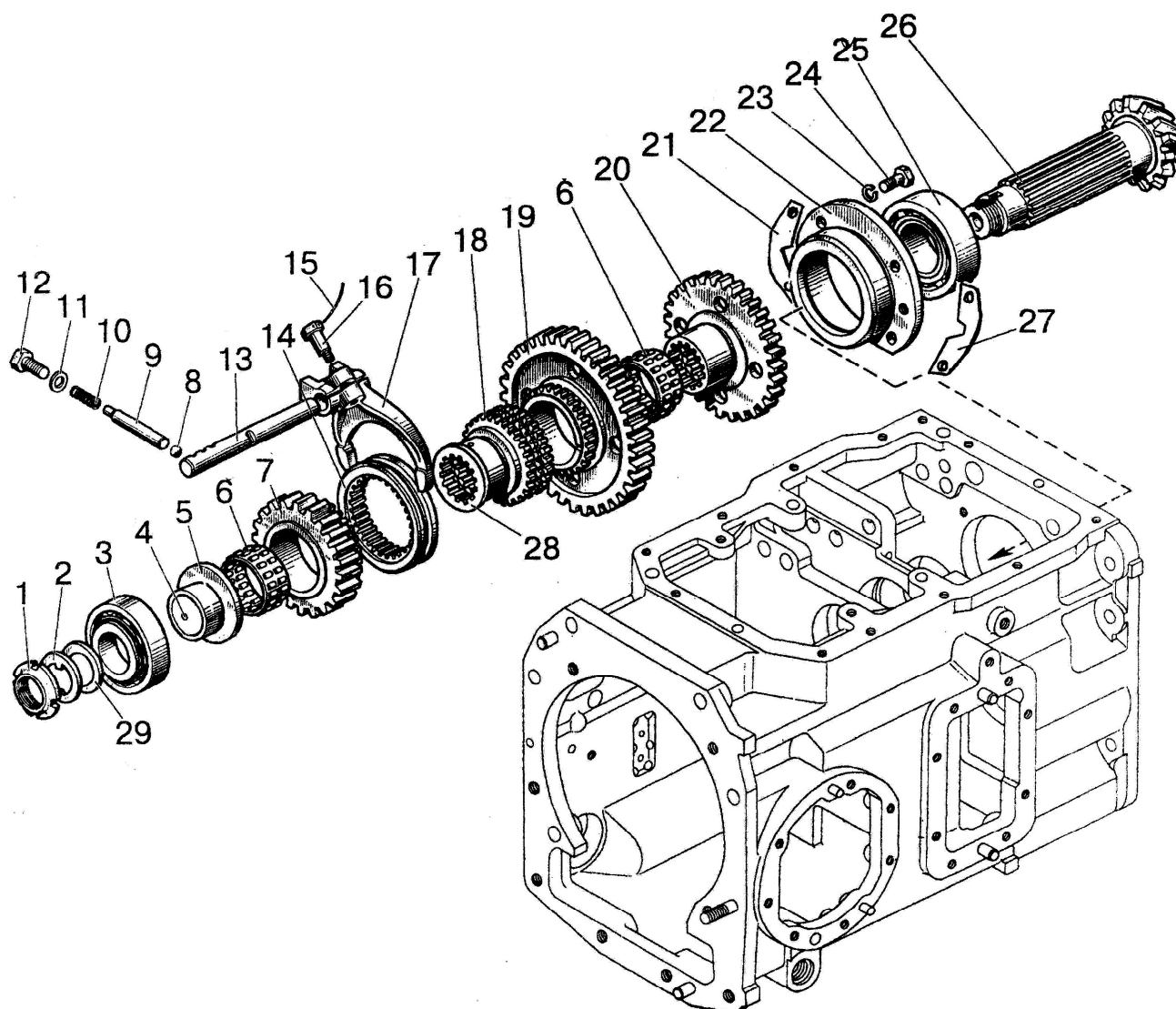


Fig. 17.3 Secondary shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.3		80-1701050Б	1	Shaft (25, 26)
		80-1701140-Б	1	Jack (22, 25)
	1	80-1701045	1	Nut
	2	1522-1701354	1	Nut
	3	6-67512 АШ2	1	Bearing
	4	80-1701044	1	Lock
	5	1522-1701353	1	Bushing
	6	664714E	2	Bearing
	7	1522-1701314	1	Gear
	8	10,0-60	1	Ball GOST 3722-81
	9	85-1702048	1	Pin
	10	50-1702148-A	1	Spring
	11	85-1702051	1	Washer
	12	M12-6gx25.88.35.019	1	Bolt GOST 7796-70
	13	1522-1702037	1	Shifter arm
	14	112-1701316	1	Clutch
	15	1,6-0-C	1	Wire
	16	80-1702108	1	Bolt
	17	85-1702029-Б	1	Yoke
	18	1522-1701348	1	Bushing
	19	1522-1701312	1	Gear
	20	1522-1701313	1	Gear
	21	50-1701258	6	Gasket
	22	80-1701141-Б	1	Jack
	23	10 OT	4	Washer OST 37.001.115-75
	24	M10-6gx30.88.35.019	4	Bolt GOST 7796-70
	25	7712A	1	Bearing
	26	1522-1701252	1	Shaft
	27	50-1701259	4	Gasket
	28	1522-1701349	1	Bushing
	29	1522-1701254	5	Washer 0,2 mm
		1522-1701254-01	5	Washer 0,5 mm

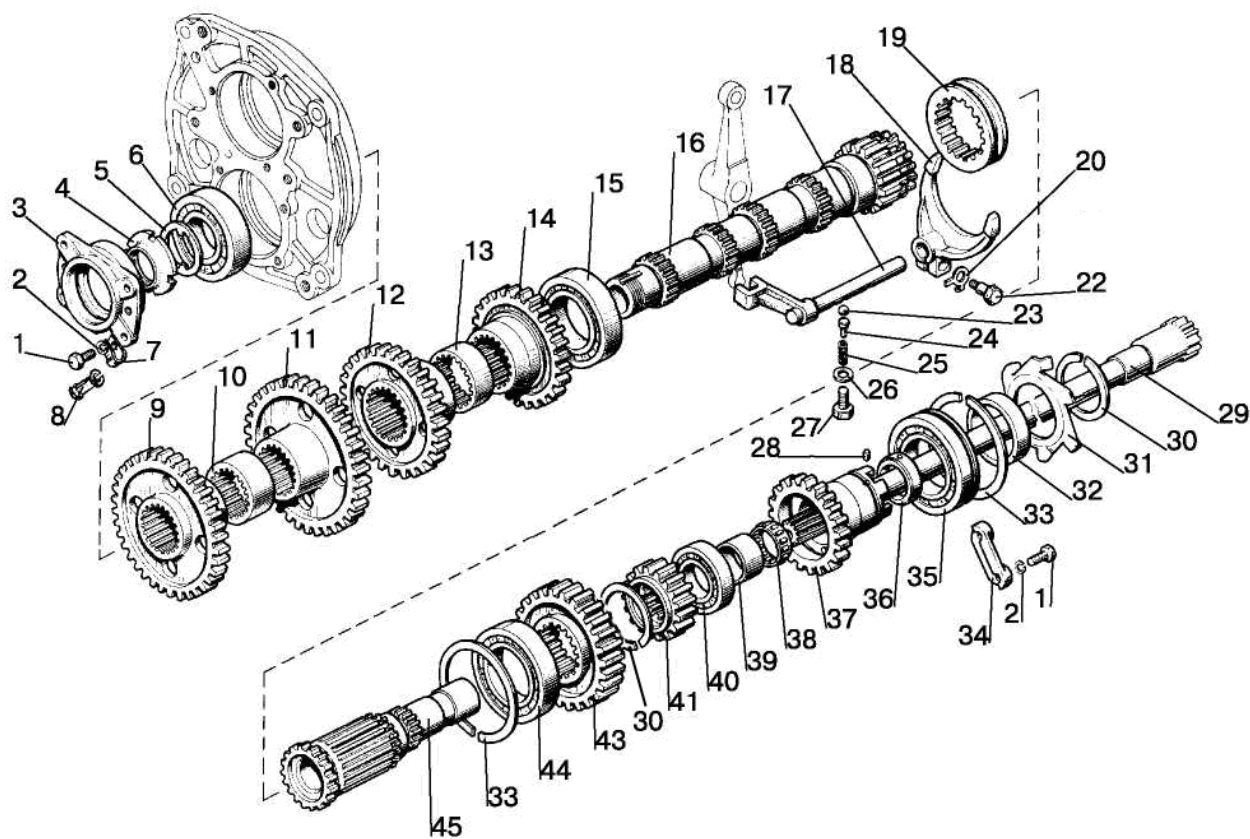


Fig. 17.4 Intermediate shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.4		1521-1701190-B	1	Intermediate shaft (9-16)
		112-1701200	1	Gear
	1	M10-6gx30.88.35.019	8	Bolt GOST 7796-70
	2	10 OT	8	Washer OST 37.001.115-75
	3	80-1701151	1	Sleeve
	4	80-1701047	1	Nut
	5	80-1701186	1	Washer
	6	311A	1	Bearing 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	3514H	1	Bearing GOST 5721-75
	16	112-1701182	1	Intermediate shaft
	17	1520-1702038	1	Shifter arm
	18	85-1702034	1	Yoke
	19	1520-1701184	1	Clutch
	20	80-1702311	1	Washer
	22	80-1702108	1	Bolt
	23	10,0-60	1	Ball GOST 3722-81
	24	80-1704039	1	Guide
	25	50-1702148-A	1	Spring
	26	85-1702051	1	Washer
	27	M12-6gx55.88.35.019	1	Bolt GOST 7795-70
	28	2.4x8	1	Pin GOST 3128-70
	29	1522-1701160	1	Shaft
	30	2C75	2	Ring GOST 13940-86
	31	50-1701401	1	Impeller
	32	80-1701207	1	Bushing
	33	80-1701206	2	Ring
	34	80-1701205	2	Plate
	35	50215A	1	Bearing GOST 8338-75/GOST 2893-82
	36	80-1701201	1	Bushing
	37	112-1701202	1	Gear
	38	864710E	1	Bearing GOST 24310-80
	39	80-1701203	1	Bushing
	40	42210M	1	Bearing GOST 8328-75
	41	1522-1701224	1	Gear
	43	1522-1701221	1	Gear
	44	692215K1M	1	Bearing GOST 8328-75
	45	80-1701240	1	Shaft

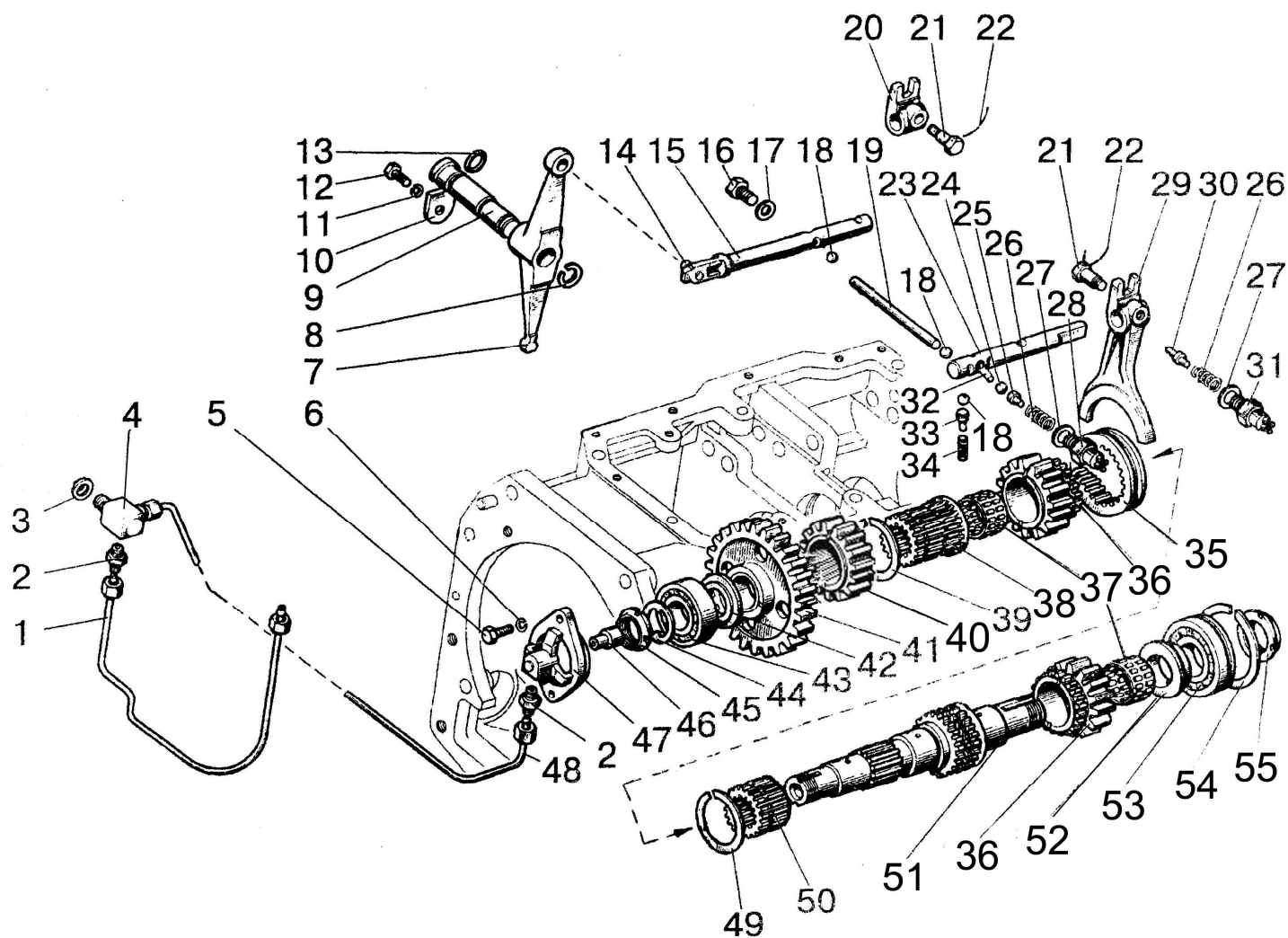


Fig. 17.5 Low gear shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.5		75-1701320	1	Shaft (35, 37, 49, 51,52)
	1	80-1701430	1	Pipe
	2	80-1701549	3	Union body
	3	Д18-055-A	1	Washer
	4	80-1701057	1	Union body
	5		2	Bolt M8-6gx20.88.35.019 GOST 7796-70
	6		2	Washer 8T OST 37.001.115-75
	7	85-1702041	1	Rocking arm
	8		1	Ring C25 GOST 13940-86
	9	85-1702042	1	Axis
	10	85-1702043	1	Plate
	11		1	Washer 10 OT OST 37.001.115-75
	12		1	Bolt M10-6gx20.88.35.019 GOST 7796-70
	13		1	Ring 026-030-25-2-2 GOST 18829-73/GOST9833-73
	14	85-1702049	1	Pin
	15	85-1702039	1	Shifter arm
	16		1	Bolt M12-6gx25.88.35.019 GOST 7796-70
	17	85-1702051	1	Washer
	18		3	Ball 10,0-60 GOST 3722-81
	19	85-1702046	1	Pin
	20	85-1702045	1	Shifter arm
	21	80-1702108	2	Bolt
	22		2	Wire 1,6-O-C GOST 3282-74
	23	1522-1702035	1	Shifter arm
	24		1	Ball 12,7-60 GOST 3722-81
	25	85-1702305	1	Pin
	26	12-23-668-A	1	Spring
	27	50-1702048	10	Shim
	28	BK12-41	1	Switch
	29	85-1702027	1	Yoke
	30	1522-1702306	1	Pin
	31	BK 12-5	1	Switch
	32	85-1702301	1	Axis
	33	80-1704039	1	Guide
	34	50-1702148-A	1	Spring
	35	112-1701343	1	Clutch
	36	1522-1701351	2	Gear
	37		2	Bearing 664910E TU RB 00234873.003-99
	38	80-1701346-01	1	Bushing
	39		1	Ring 2C70 GOST 13940-86
	40	1025-1701344	1	Gear
	41	1520-1701340	1	Gear

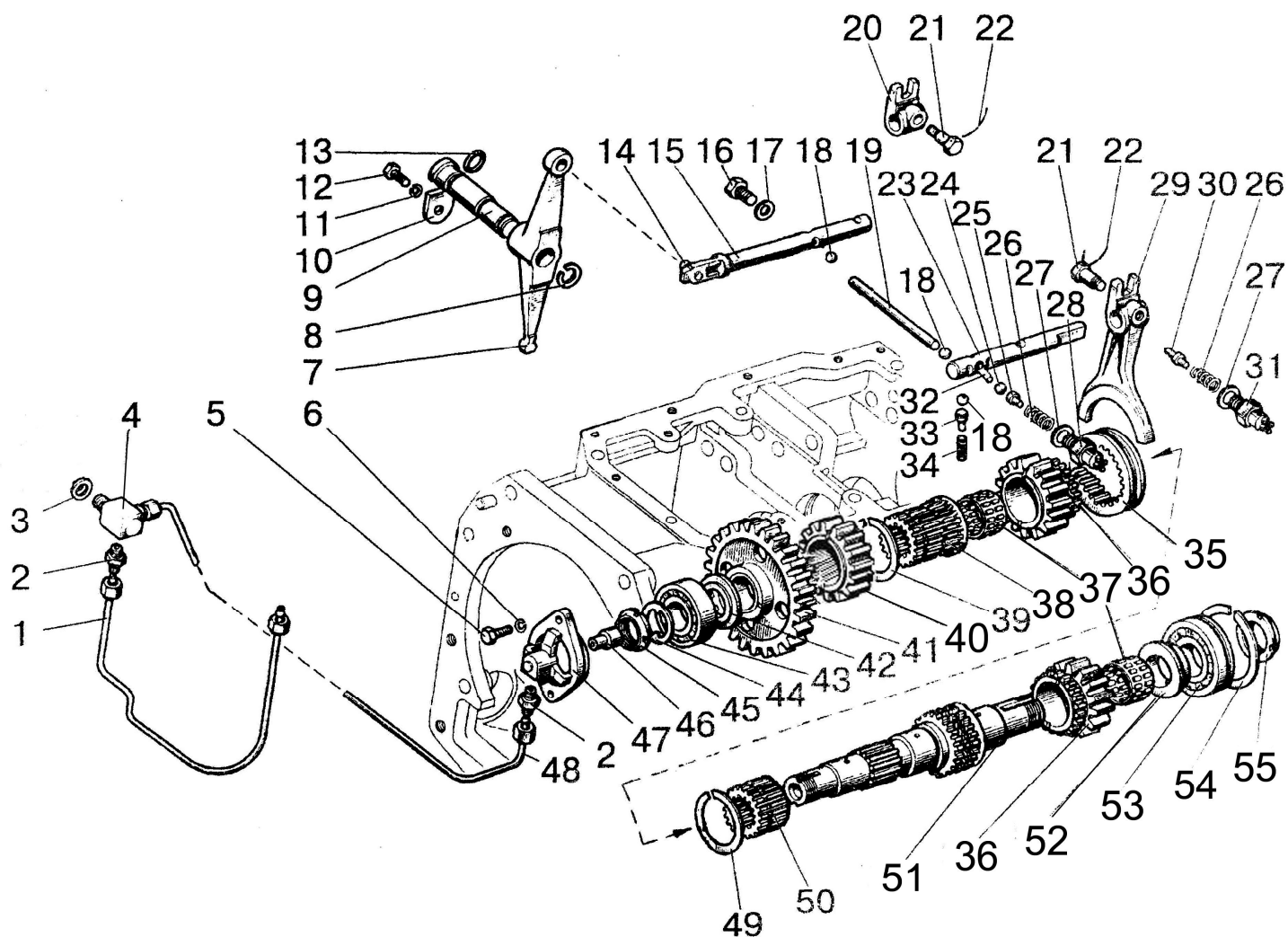


Fig. 17.5 Low gear shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.5	42	80-1701306	1	Washer
	43	12507KM	1	Bearing GOST 8328-75
	44	86-1802052	1	Washer
	45	52-2308097	1	Nut
	46	80-1701053	1	Throttle
	47	80-1701311-A	1	Sleeve
	48	80-1701420	1	Pipe
	49	54-31-472	1	Spring ring
	50	75-1701352	1	Bushing
	51	75-1701335	1	Shaft
	52	80-1701339	1	Bushing
	53	692309KM	1	Bearing
	54	80-1701396	1	Ring
	55	80-1701045	1	Nut

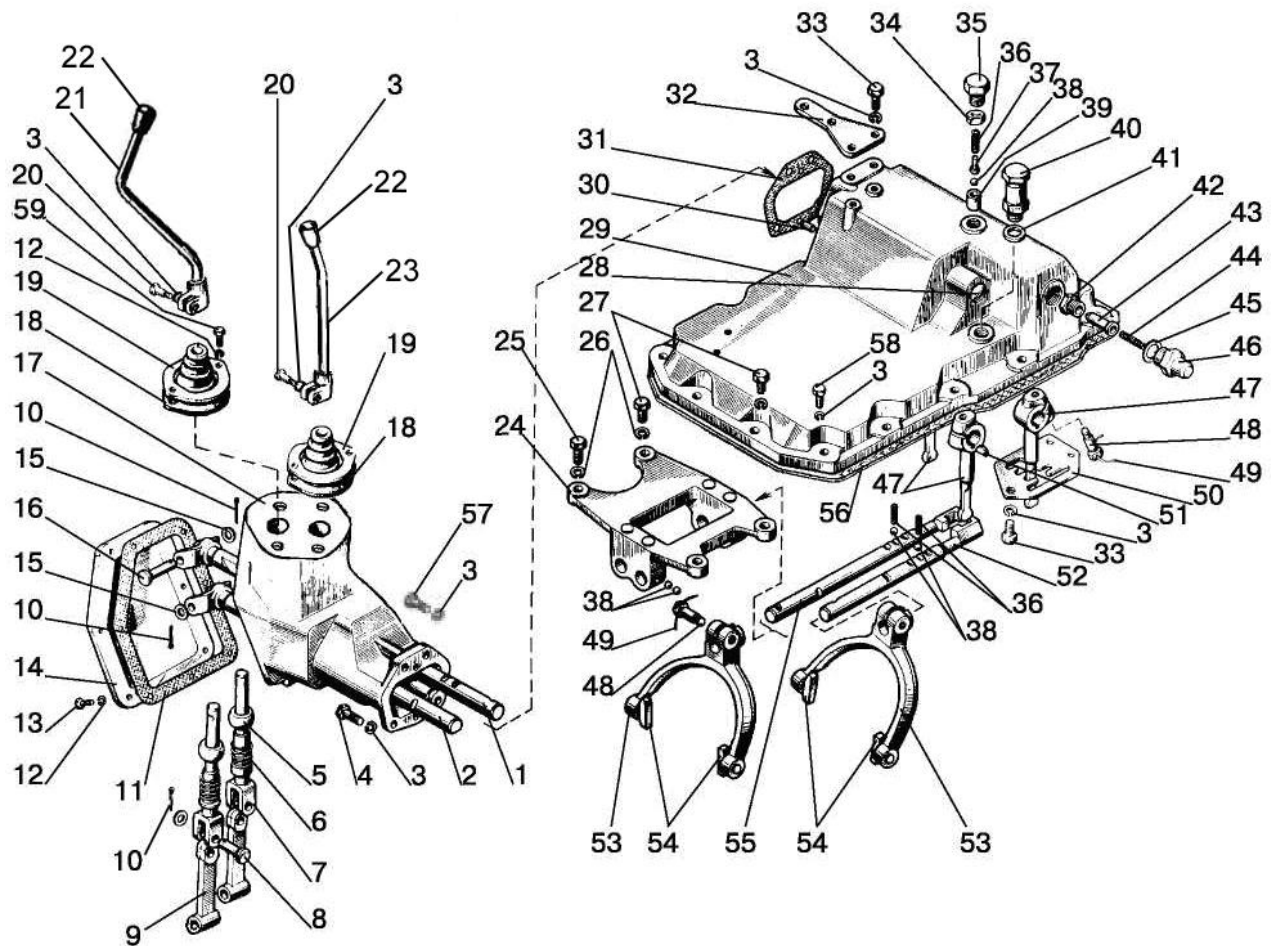


Fig. 17.6 GB control mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.6		80-1702010	1	Control mechanism (1-20, 27, 28, 29-50)
		80C-1702080	1	Housing (80C-1702090-B, 24, 38, 48, 49, 52, 55, 56)
		80C-1702090-B	2	Yoke (53, 54)
		80C-1702300	1	Retainer (42-46)
	1	80C-1702060	1	Shaft
	2	80C-1702070	1	Shaft
	3	10 OT	18	Washer OST 37.001.115-75
	4	M10-6gx35.88.35.019	2	Bolt GOST 7796-70
	5	142-1702032	2	Ball
	6	77.37.117	2	Spring
	7	80C-1702074	2	Yoke
	8	12x32	2	Pin OST 37.001.163-75
	9	80C-1702073	2	Lever
	10	3,2x18.019	4	Forelock GOST 397-79
	11	80-1702068	1	Gasket
	12	6T	11	Washer OST 37.001.115-75
	13	M6-6gx16.88.35.019	7	Bolt GOST 7798-70
	14	80-1702067	1	Cover
	15	85-4619014	2	Washer
	16	12x55	2	Pin OST 37.001.163-75
	17	80-1702078-A	1	Housing
	18	55-47-569-A	2	Case
	19	80C-1702075	2	Washer
	20	M10-6gx30.88.35.019	2	Bolt GOST 7796-70
	21	75-1702600	1	Lever
	22	70-1702125	2	Handle
	23	75-1702500	1	Lever
	24	80C-1702081	1	Housing
	25	M12-6gx35.88.35.019	2	Bolt GOST 7796-70
	26	12 OT	6	Washer OST 37.001.115-75
	27	50-1702092	4	Bolt
	28	28-10кп.Ц9.xp	1	Blind plug GOST 3111-81
	29	1221-1702025	1	Cover
	30	8x16	2	Pin GOST 3128-70
	31	80C-1702066	1	Gasket
	32	85-3503046	1	Bracket
	33	M10-6gx25.88.35.019	5	Bolt GOST 7796-70
	34	M16-6H.04.019	1	Nut GOST 5916-70
	35	70-1703204	1	Bolt
	36	50-1702148-A	3	Spring
	37	80-1704039	1	Guide
	38	10,0-60	5	Ball GOST 3722-81
	39	70-1703013	1	Bushing
	40	85-1702270	1	Breather
	41	B50-3522023	1	Gasket
	42	80C-1702301	1	Bushing

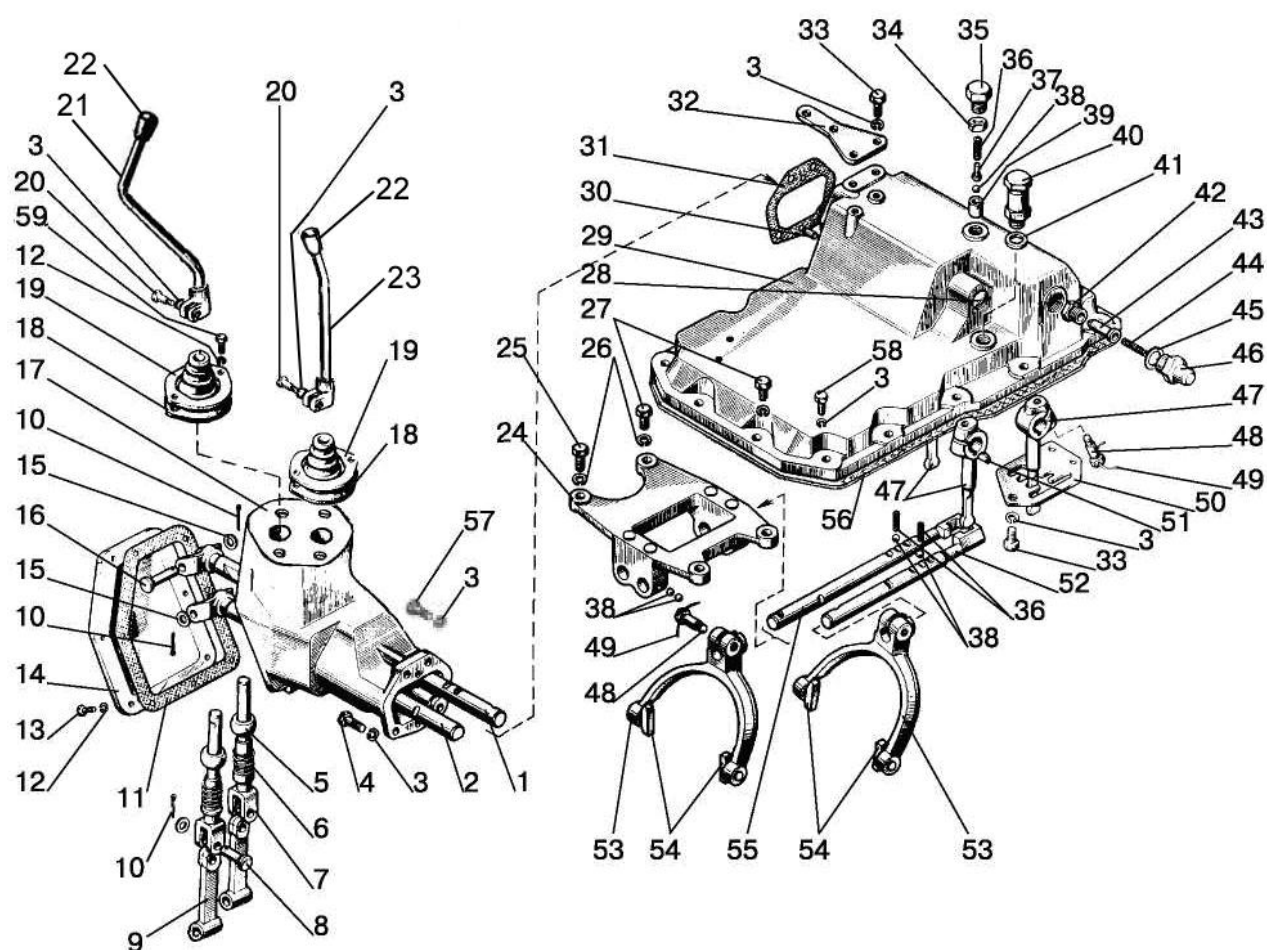


Fig. 17.6 GB control mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.6	43	80C-1702303	1	Detent
	44	80-1737113	1	Spring
	45	80-1702098	1	Washer
	46	80C-1702302	1	Housing
	47	85-1702055	3	Lever
	48	80-1702108	5	Bolt
	49	1,6-O-C	5	Wire GOST 3282-74
	50	75-1702052-A	1	Sector
	51	6x10	3	Key GOST 24071-97
	52	80C-1702083	1	Shifter arm
	53	80C-1702091-B	2	Yoke
	54	80C-1702092	4	Cotter
	55	80C-1702082	1	Shifter arm
	56	85-1702026	1	Gasket
	57	M10-6gx40.88.35.019	2	Bolt GOST 7796-70
	58	M10-6gx30.88.35.019	12	Bolt GOST 7796-70
	59	M6-6gx20.88.35.019	4	Bolt GOST 7798-70

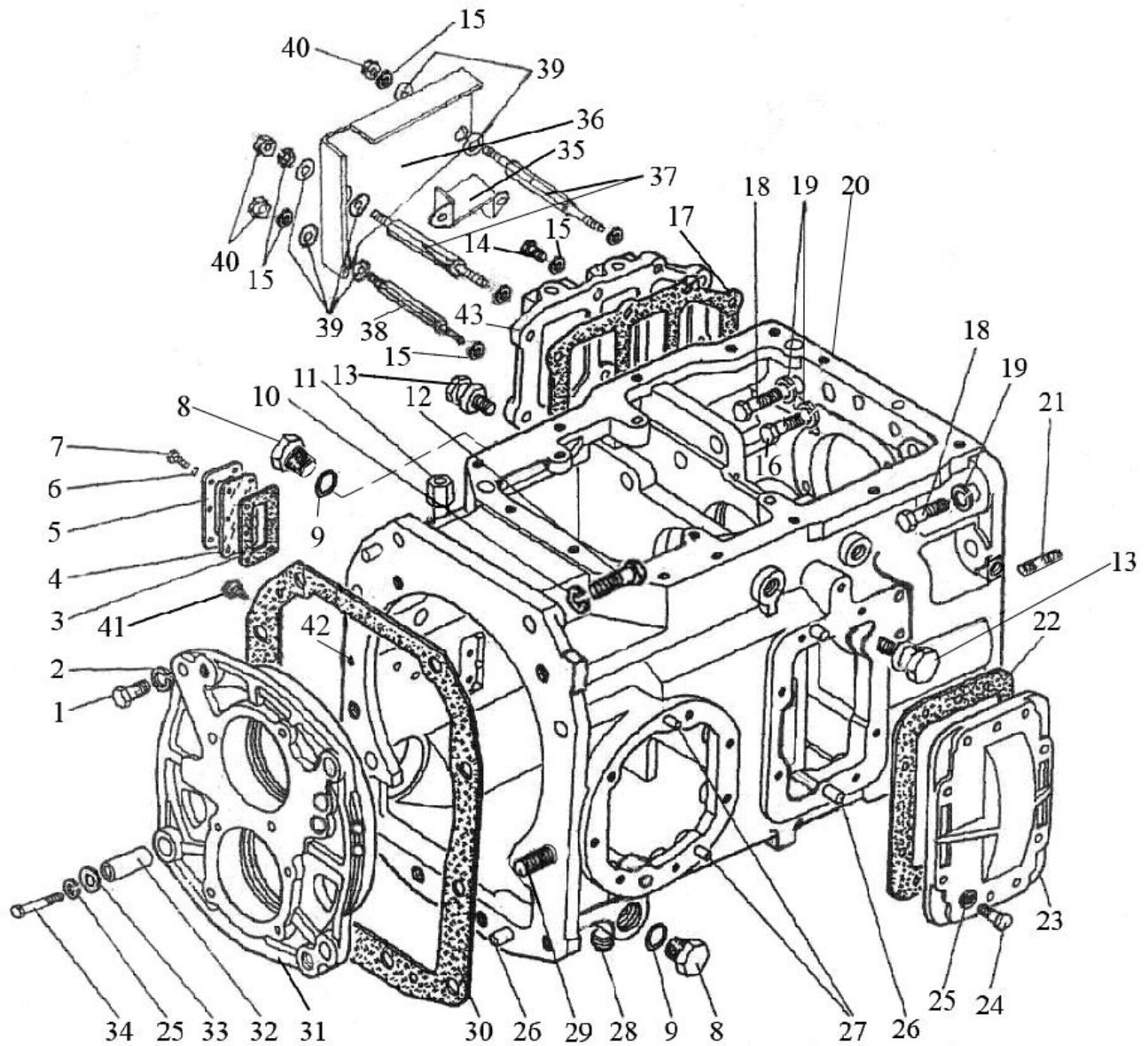


Fig. 17.7 Gear box (GB) 1222-1700010 (24F+12R)

Group 17 Gear box (GB)
Subgroup 1701. Gear box (GB) 1222-1700010 (24F+12R)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.7		1222-1700010-01 or 1222-1700010-04 with r/g*	1	Gear box (GB)
			1	Gear box (GB)
	1	M16x45	2	Bolt
	2	ШП16	2	Washer
	3	85-4608086-A	1	Gasket
	4	85-4608087	1	Indicator
	5	85-4608088	1	Plate
	6	ШП6	6	Washer
	7	M6x16	6	Bolt
	8	80-4608021	2	Blind plug
	9	027-032-30-1-4	2	Ring
	10	ШП20	4	Washer
	11	1221-1737099	1	Union body
	12	70-4605036	4	Bolt
	13	50-1002318-B	2	Eye-bolt
	14	M10x35	6	Bolt
	15	ШП10	12	Washer
	16	1221-2401011-02	1	Bolt
	17	80-1701399-B	1	Gasket
	18	1221-2401011-01	8	Bolt
	19	ШП18	9	Washer
	20	1523-1701025	1	Housing
	21	1522-1701525	3	Stud
	22	50-1701456-A	1	Gasket
	23	70-1701454-A2-01	1	Cover
	24	M12x30	7	Bolt
	25	ШП12	9	Washer
	26	Д01-015	4	Adjusting pin
	27	ШЦК 10x25	4	Pin
	28	ПК КГ 3/8"	1	Plug
	29	80-1701525	1	Stud M20 3p/6gx65.66.019 GOST 22034-76
	30	80-1701026	1	Gasket
	31	1222-1701034	1	Sleeve
	32	1222-1701071	2	Pin
	33	1222-1701072	2	Washer
	34	M12x60	2	Bolt
	35	1221-1802089-A	1	Joke
	36	1221-1802093	1	Shield
	37	1221-1802094	2	Stud
	38	1221-1802094-01	1	Stud
	39	ШЧ10	6	Washer
	40	M10	3	Nut
	41	КГ 1/8".A12.019	1	Plug
	42	10,0-60	1	Ball
	43	1221-1802016	1	Cover

*r/g - reducing gear

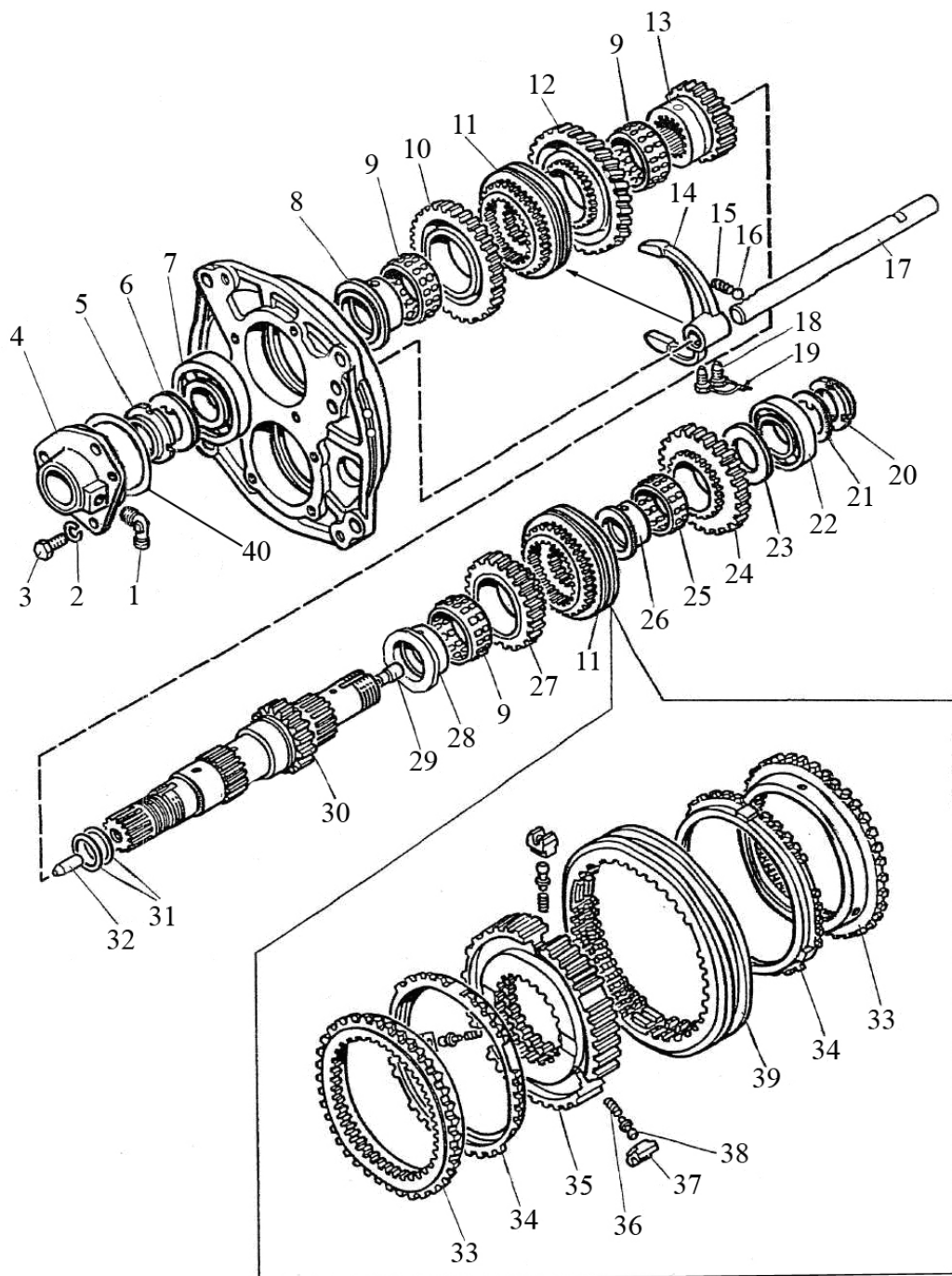


Fig. 17.8 Primary shaft

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

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

* For synchro unit 1222-1701400

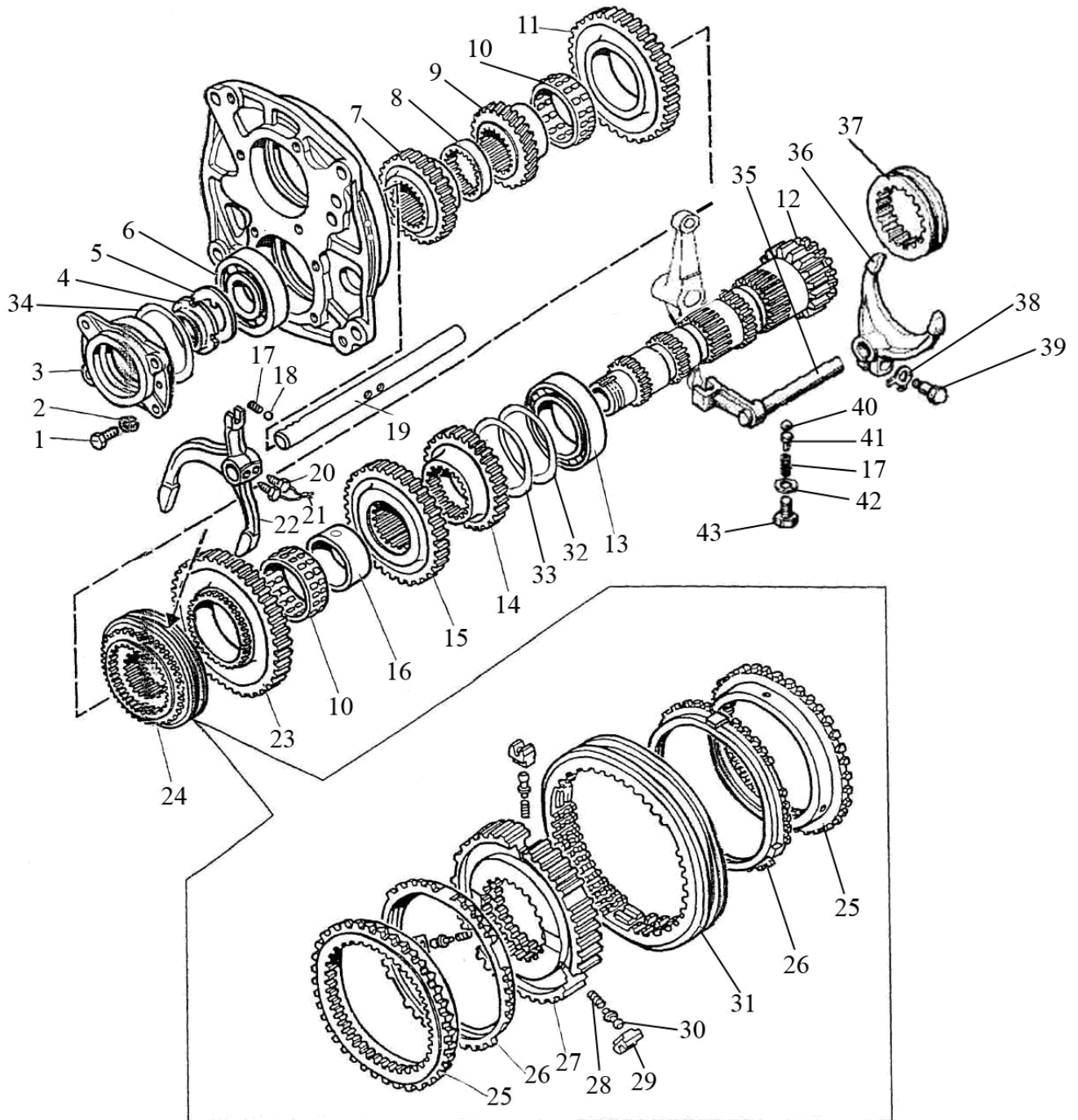


Fig. 17.9 Intermediate shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.9		1222-1701190-01	1	Intermediate shaft (7-13,14-16,23,24,32,33)
	1	M10x30	4	Bolt
	2	ШП10	4	Washer
	3	2022-1701151	1	Sleeve
	4	80-1701047	1	Nut
	5	80-1701186	1	Washer
	6	6-311AШ1	1	Bearing
	7	1222-1701217	1	Gear
	8	1222-1701213	1	Bushing
	9	1523K-1701219	1	Gear
	10	3KK 78x89x38E	2	Bearing
	11	1222-1701214	1	Gear
	12	1222-1701182	1	Shaft-gear
	13	3514H	1	Bearing
	14	1222-1701218	1	Gear
	15	1222-1701216	1	Gear
	16	1222-1701046	1	Bushing
	17	50-1702148-A	2	Spring
	18	10,0-60	1	Ball
	19	1222-1702087	1	Shifter arm
	20	220-1702061	2	Bolt
	21	1,6-O-C	200 mm	Wire
	22	1222-1702089	1	Yoke
	23	1523-1701212	1	Gear
	24	GT-C 114; 3.28434.3 or 1222-1701400*	1	Synchro unit
	25	1222-1701393*	2	Cone ring
	26	1222-1701390*	2	Lock ring
	27	1222-1701392*	1	Slide
	28	1222-1701396*	3	Spring
	29	1222-1701397*	3	Lifter
	30	1222-1701398*	3	Detent
	31	1222-1701394*	1	Clutch
	32	1222-1701223**	0-4	Washer
	33	1222-1701223-01**	0-3	Washer
	34	1222-1701033**	0-3	Washer

* For synchro unit 1222-1701400

** Selection

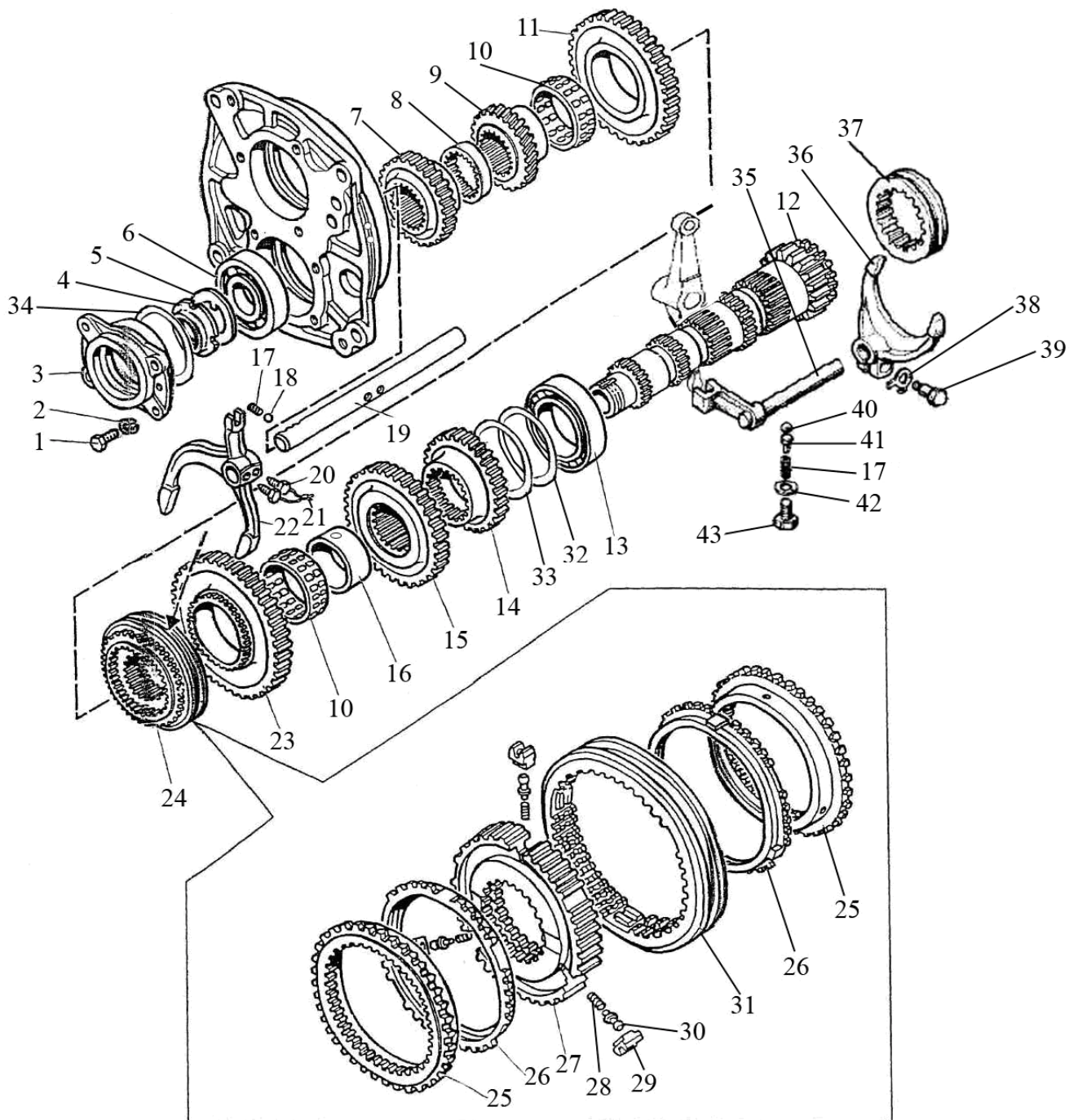
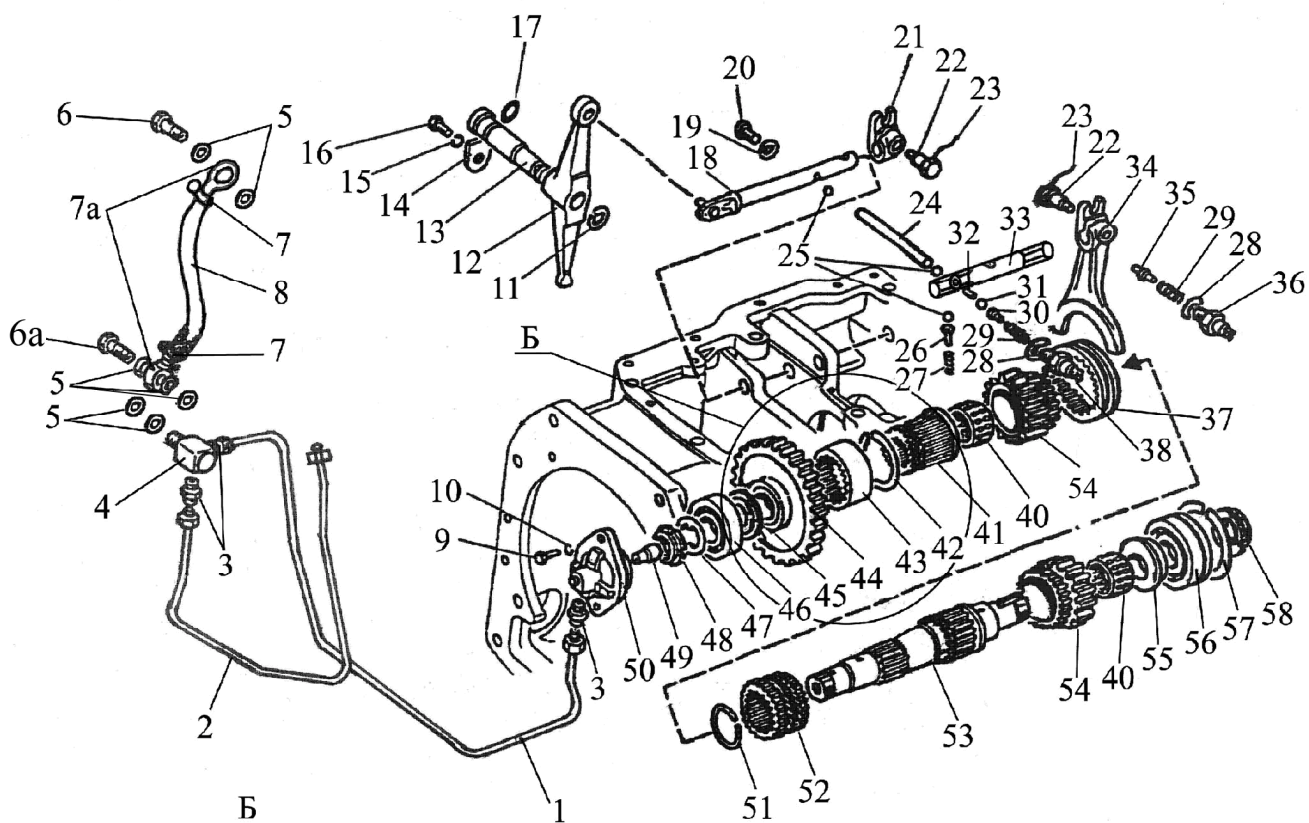


Fig. 17.9 Intermediate shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.9	35	1520-1702038	1	Shifter arm
	36	85-1702034	1	Yoke
	37	1520-1701184	1	Clutch
	38	80-1702311	1	Washer
	39	80-1702108	1	Bolt
	40	10,0-60	1	Ball GOST 3722-81
	41	80-1704039	1	Guide
	42	85-1702051	1	Washer
	43	M12-6gx55.88.35.019	1	Bolt GOST 7795-70



variant with reducing gear

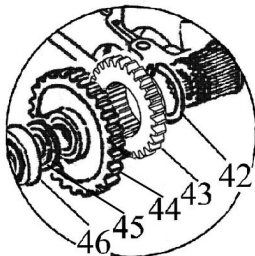
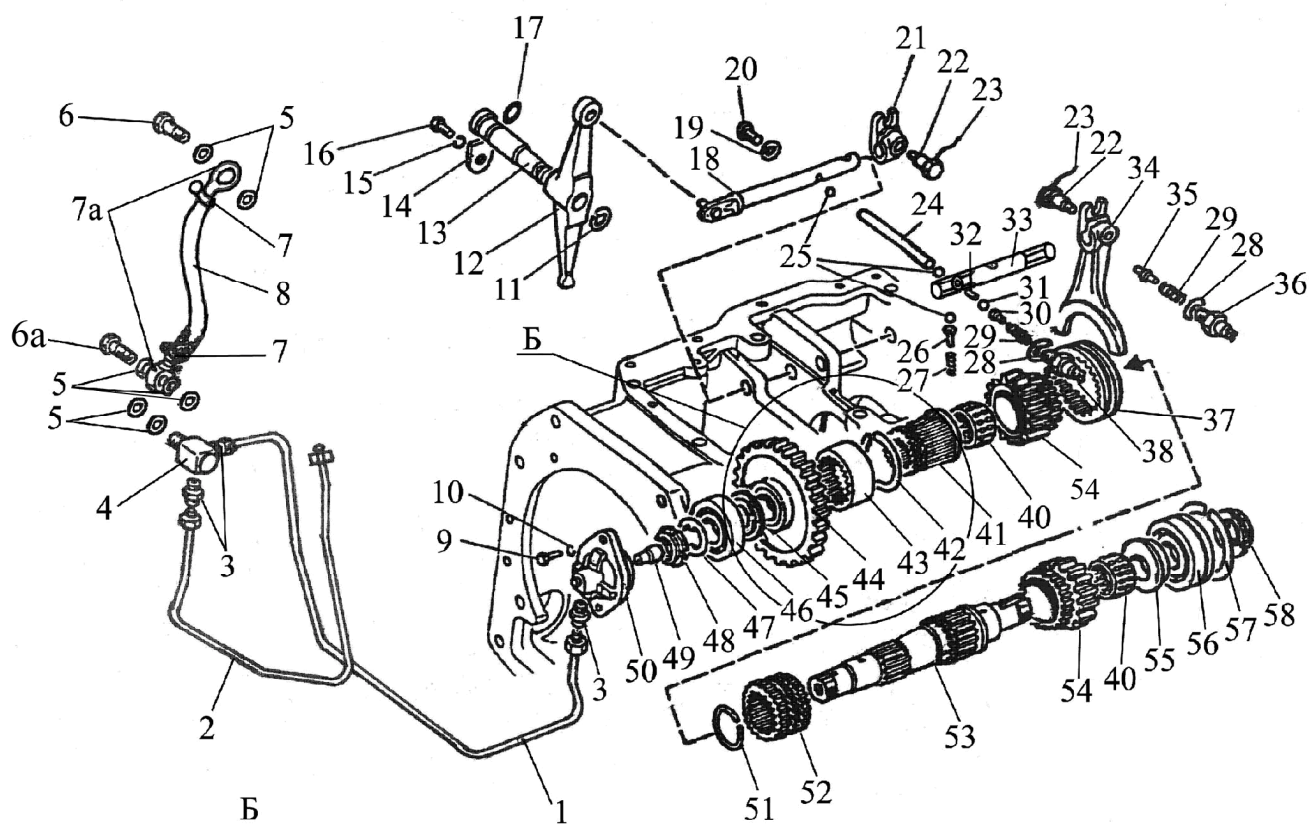


Fig. 17.10 Low gear and back draft shaft

Group 17 Gear box (GB)
Subgroup 1701. Low gear and back draft shaft

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.10		75-1701320	1	Shaft (40-1 piece, 53, 55-58)
		80-1701310	1	Sleeve (3-1 piece, 49,50)
		1222-1702130-01	1	Oil pipeline (7,7a,8)
	1	80-1701420	1	Pipe
	2	80-1701430	1	Pipe
	3	80-1701549	3	Union body
	4	80-1701057	1	Union body
	5	Д18-055-A	7	O-ring
	6	Д18-051	1	Bolt
	6a	240-1111103	1	Turning angle joint bolt
	7	12-22	2	Clamp with worm thread
	7a	Φ80-3407720	2	Oil pipeline
	8	1222-1702131-01	1	Hose
	9	M8x20	2	Bolt
	10	ШП8	2	Washer
	11	C25	1	Ring
	12	85-1702041	1	Rocking arm
	13	85-1702042	1	Axis
	14	85-1702043	1	Plate
	15	ШП10	1	Washer
	16	M10x20	1	Bolt
	17	026-030-25-2-2	1	Ring
	18	85-1702050	1	Shifter arm
	19	85-1702051	1	Washer
	20	M12x25	1	Bolt
	21	85-1702045	1	Shifter arm
	22	80-1702108	2	Bolt
	23	1,6-O-C	(2x200) mm	Wire
	24	85-1702046	1	Pin
	25	10,0-60	3	Ball
	26	80-1704039	1	Guide
	27	50-1702148-A	1	Spring
	28	50-1702048*	0-10	Shim
	29	12-23-668-A	2	Spring
	30	85-1702305	1	Pin
	31	12,7-60	1	Ball
	32	85-1702301	1	Axis
	33	1522-1702035	1	Shifter arm
	34	1222-1702027	1	Yoke
	35	1522-1702306	1	Pin
	36	BK 12-51	1	Switch

* Selection



variant with reducing gear

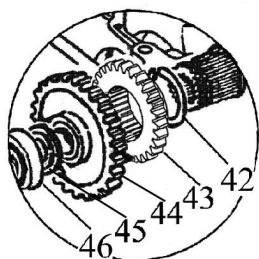


Fig. 17.10 Low gear and back draft shaft

Group 17 Gear box (GB)
Subgroup 1701. Low gear and back draft shaft

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.10	37	112-1701343	1	Clutch
	38	BK 12-41	1	Switch
	40	664910E	2	Bearing
	41	80-1701346 or 80-1701346-01(with reducing gear)	1 1	Bushing Bushing
	42	2C70	1	Ring
	43	1222-1701344 or 1025-1701344 (with reducing gear)	1 1	Bushing Gear
	44	1520-1701340	1	Gear
	45	80-1701306	1	Washer
	46	12507KM	1	Bearing
	47	86-1802052	1	Washer
	48	52-2308097	1	Nut
	49	80-1701053	1	Throttle
	50	80-1701311-A	1	Sleeve
	51	54-31-472	1	Spring ring
	52	75-1701352	1	Bushing
	53	75-1701335	1	Shaft
	54	1222-1701361	2	Gear
	55	80-1701339	1	Bushing
	56	692309KM	1	Bearing
	57	80-1701396	1	Ring
	58	80-1701045	1	Nut

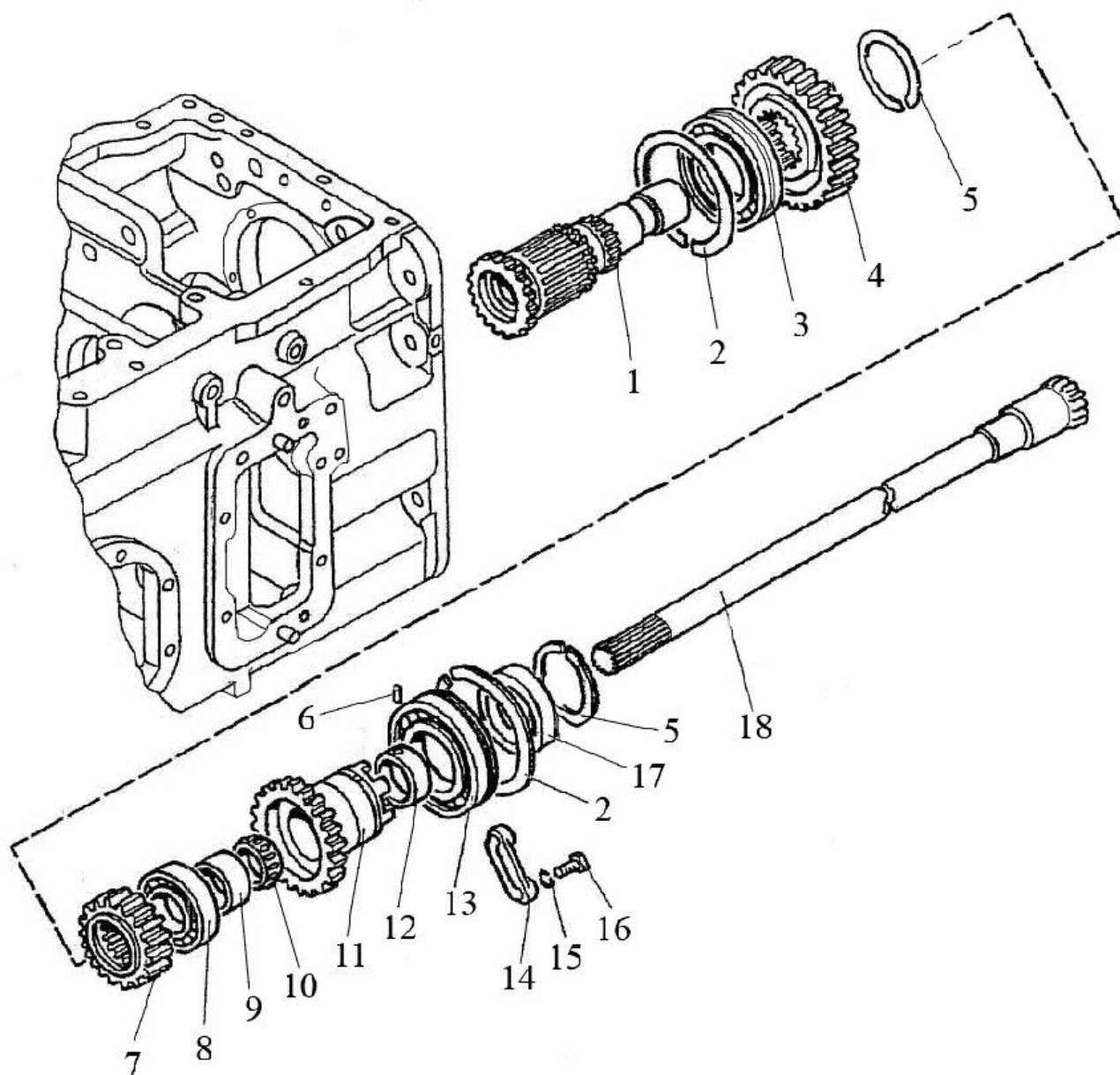


Fig. 17.11 Gear set shaft

Group 17 Gear box (GB)
Subgroup 1701. Gear set shaft

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.11		112-1701200	1	Gear (2,5,6,8,9,11-13,17)
		112-1701230	1	Gear (6,11,12)
	1	80-1701240	1	Shaft
	2	80-1701206	2	Ring
	3	692215K1M	1	Bearing
	4	1525-1701221	1	Gear
	5	2C75	2	Ring
	6	2,4x8	1	Pin
	7	1222-1701224	1	Gear
	8	42210M	1	Bearing
	9	80-1701203	1	Bushing
	10	864710E	1	Bearing
	11	112-1701202	1	Gear
	12	80-1701201	1	Bushing
	13	50215A	1	Bearing
	14	80-1701205	2	Plate
	15	ШП10	4	Washer
	16	M10x30	4	Bolt
	17	80-1701207-01	1	Bushing
	18	1522-1701160	1	Shaft

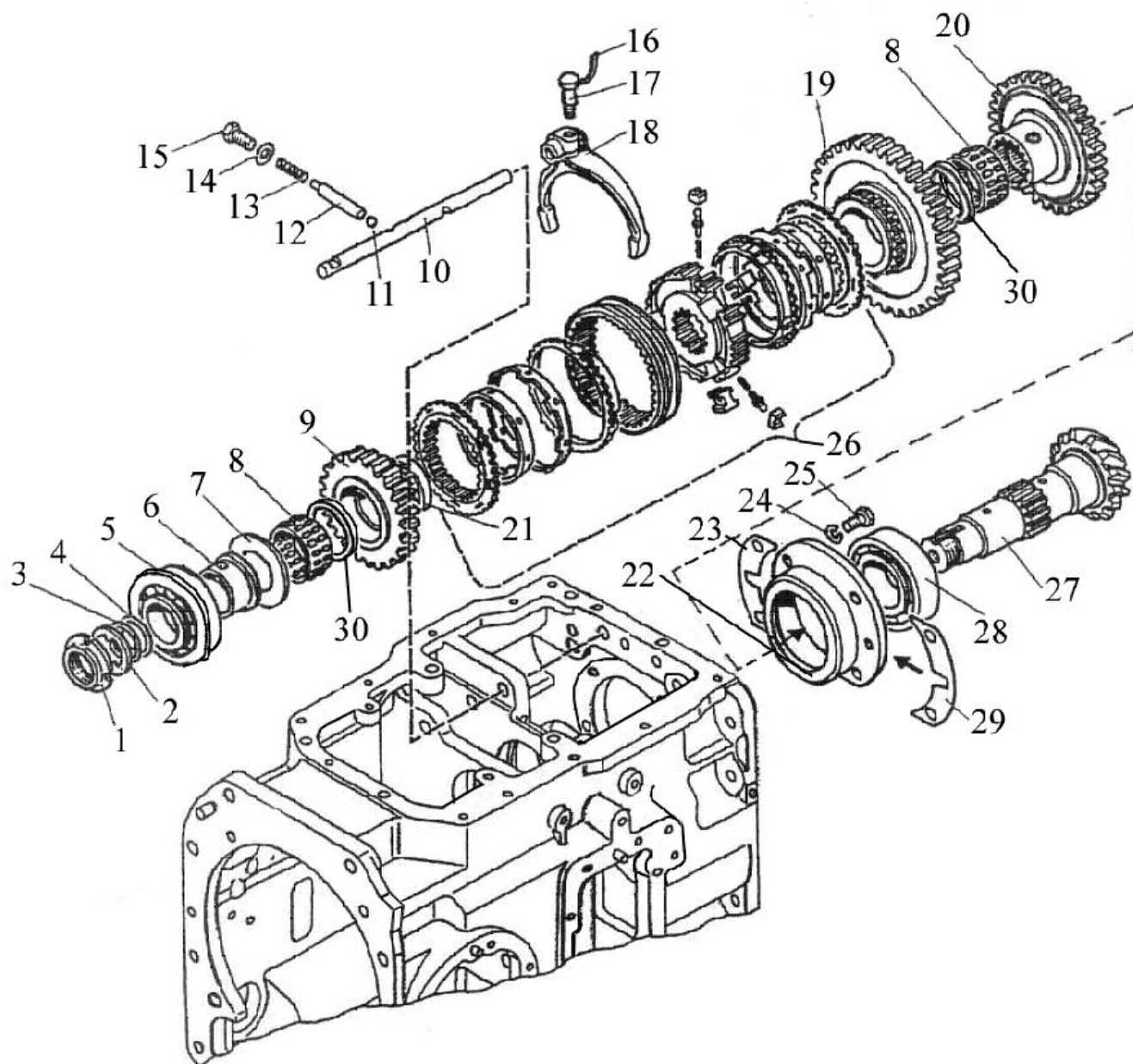


Fig. 17.12 Secondary shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.12		1222-1701050	1	Shaft (27, inner race with rollers pos.No 28)
		80-1701140-B	1	Jack (22, bearing outer race pos.No 28)
	1	80-1701045	1	Nut
	2	1522-1701354	1	Washer
	3	1522-1701254	5	Washer
	4	1522-1701254-01	5	Washer
	5	6-67512AШ2	1	Bearing
	6	1522-1701350	1	Bushing
	7	1222-1701353	1	Washer
	8	664514E	2	Bearing
	9	1525-1701314-A	1	Gear
	10	1222-1702037	1	Shifter arm
	11	10,0-60	1	Ball
	12	85-1702048	1	Pin
	13	50-1702148-A	1	Spring
	14	85-1702051	1	Washer
	15	M12x25	1	Bolt
	16	1,6-O-C	1	Wire
	17	80-1702108	1	Bolt
	18	1222-1702029	1	Yoke
	19	1222-1701312-A	1	Gear
	20	1222-1701313	1	Gear
	21	1222-1701349	1	Bushing
	22	80-1701141-B	1	Sleeve
	23	50-1701258	6	Gasket
	24	ШП10	4	Washer
	25	M10x30	4	Bolt
	26	GT-D 109/116; 3.26299.3	1	Synchro unit
	27	1222-1701252	1	Shaft-gear
	28	7712A	1	Bearing
	29	50-1701259	4	Gasket
	30	2025-1701033	2	Bushing

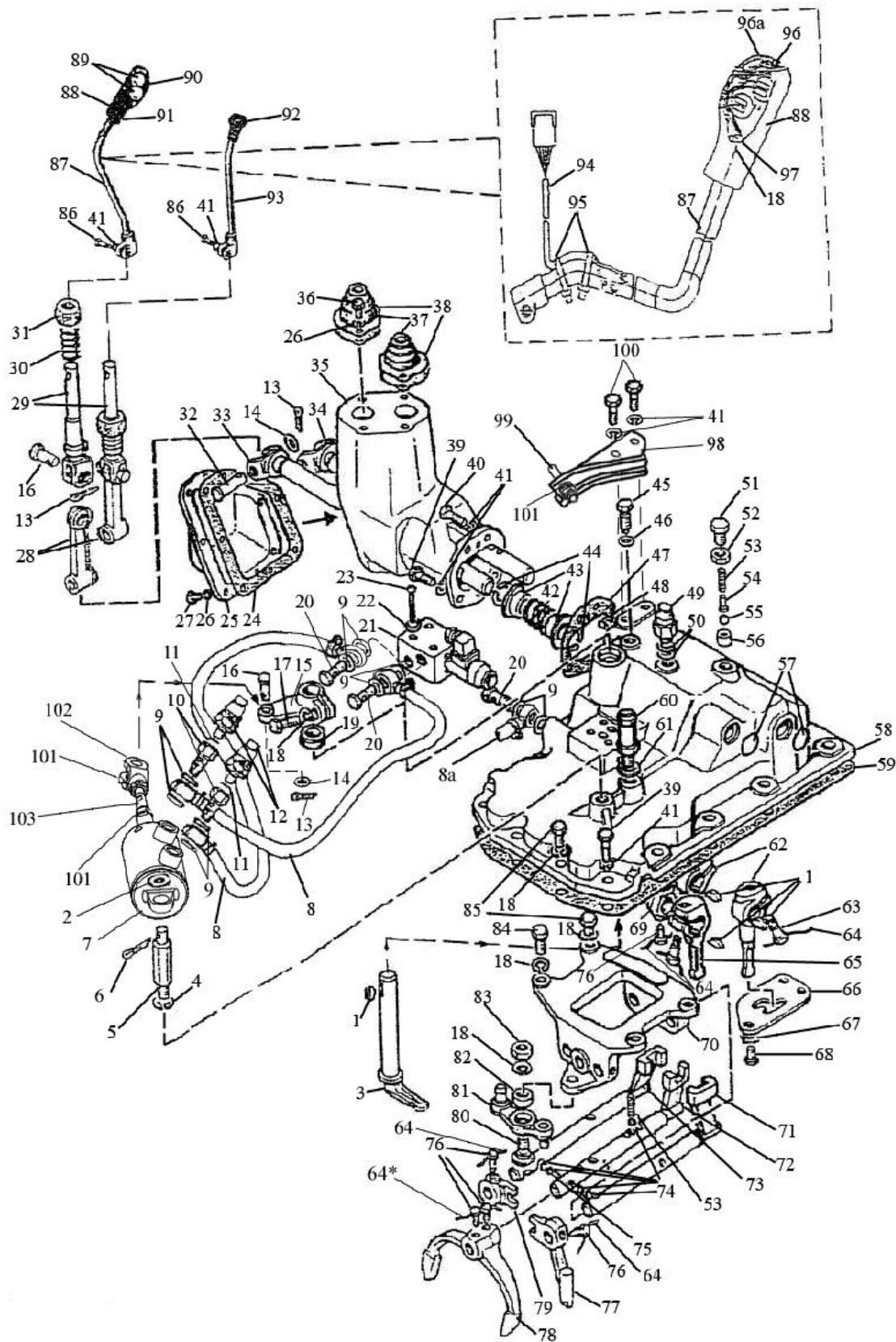


Fig. 17.13 GB control mechanism

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

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

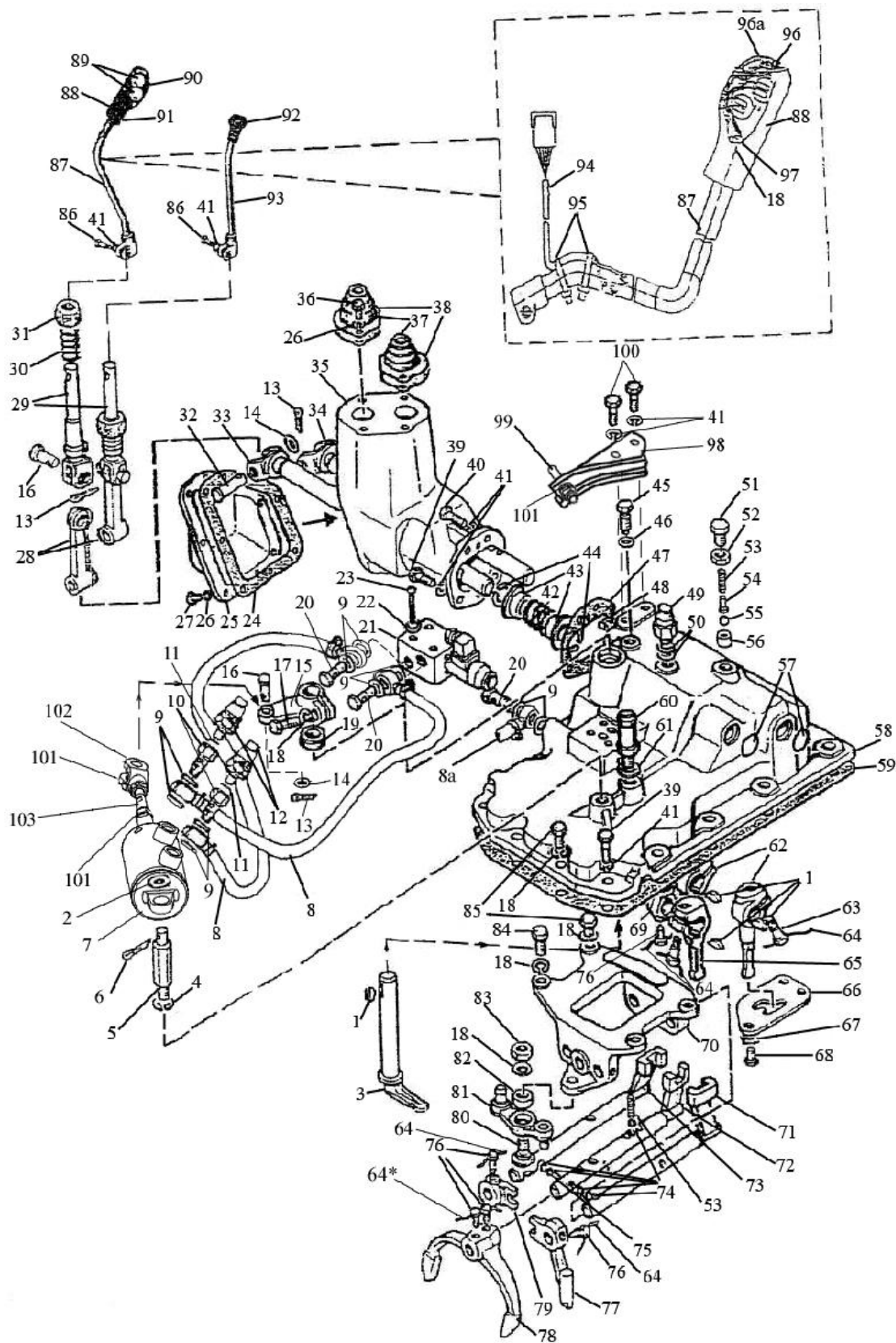


Fig. 17.13 GB control mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.13	46	85-1702051	1	Washer
	47	80C-1702066	1	Gasket
	48	8x16	2	Pin
	49	BK 12-41	1	Switch
	50	50-1702048	10	Shim
	51	70-1703204	1	Bolt
	52	M16	1	Nut
	53	50-1702148-A	2	Spring
	54	80-1704039	1	Guide
	55	10,0-60	1	Ball
	56	70-1703013	1	Bushing
	57	28-10	2	Blind plug
	58	1222-1702030	1	Cover
	59	85-1702026	1	Gasket
	60	85-1702270	1	Breather
	61	B50-3522023	1	Gasket
	62	85-1702055	2	Lever
	63	80-1702108	3	Bolt
	64	1,6-O-C	(6x200+ 200 *) mm	Wire
	65	1222-1702055	1	Lever
	66	1222-1702052	1	Sector
	67	80-3401013	3	Washer
	68	M10x20	3	Bolt
	69	1222-1702074	1	Bushing
	70	1222-1702081	1	Housing
	71	1222-1702084	1	Shifter arm
	72	1222-1702086	1	Shifter arm
	73	1222-1702083	1	Shifter arm
	74	9,922-100	5	Ball
	75	85-1702301	1	Axis
	76	220-1702061	5	Bolt
	77	1222-1702109	1	Shifter arm
	78	1222-1702091	1	Yoke
	79	1222-1702107	1	Retainer
	80	1222-1702112	1	Axis
	81	1222-1702105	1	Rocking arm
	82	941/20	1	Bearing
	83	M12	1	Nut
	84	M12x30	2	Bolt
	85	50-1702092	4	Bolt
	86	M10x30	2	Bolt
	87	1222-1702610-A1	1	Lever
	88	75-1702505	1	Handle
	89	BK 12-1	2	Switch
	90	4x30 GOST 10621-80	4	Screw
	91	75-1702502	1	Cover
	92	A15.05.020	1	Handle
	93	2022-1702500-A	1	Lever

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

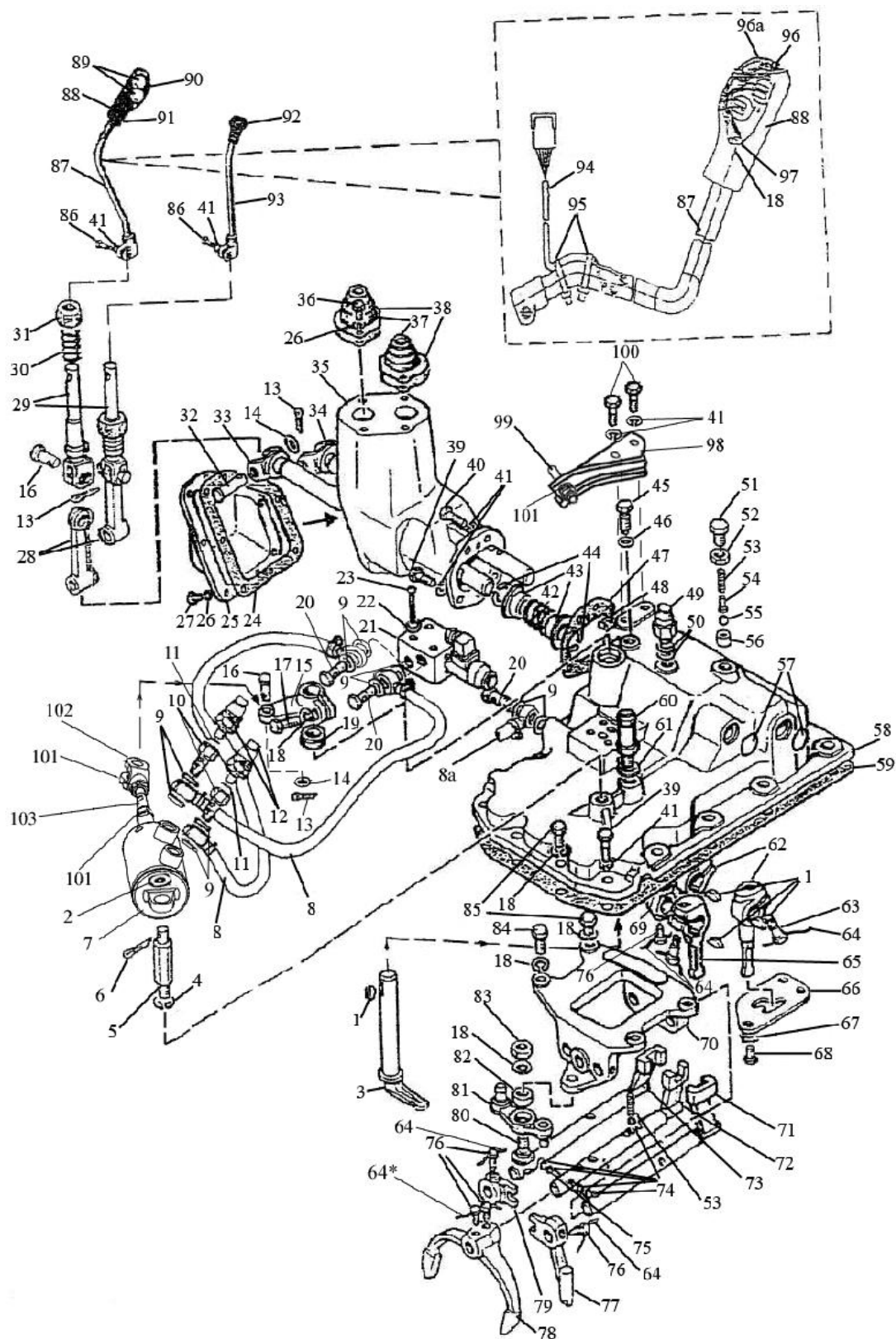


Fig. 17.13 GB control mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.13	94	1221-3724925-A	1	Harness
	95	80-3723045	2	Collar
	96	АП 307 KM A0.336.076 TU (red)	1	Light-emitting diode
	96a	АП 307ЧМ A0.336.076 TU (yellow)	1	Light-emitting diode
	97	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	98	2022-1702090	1	Bracket
	99	2022-1702093	1	Bolt
	100	M10x25	2	Bolt
	101	M10	3	Nut
	102	822-3502203	1	Yoke
	103	2022-1702094	1	Stud

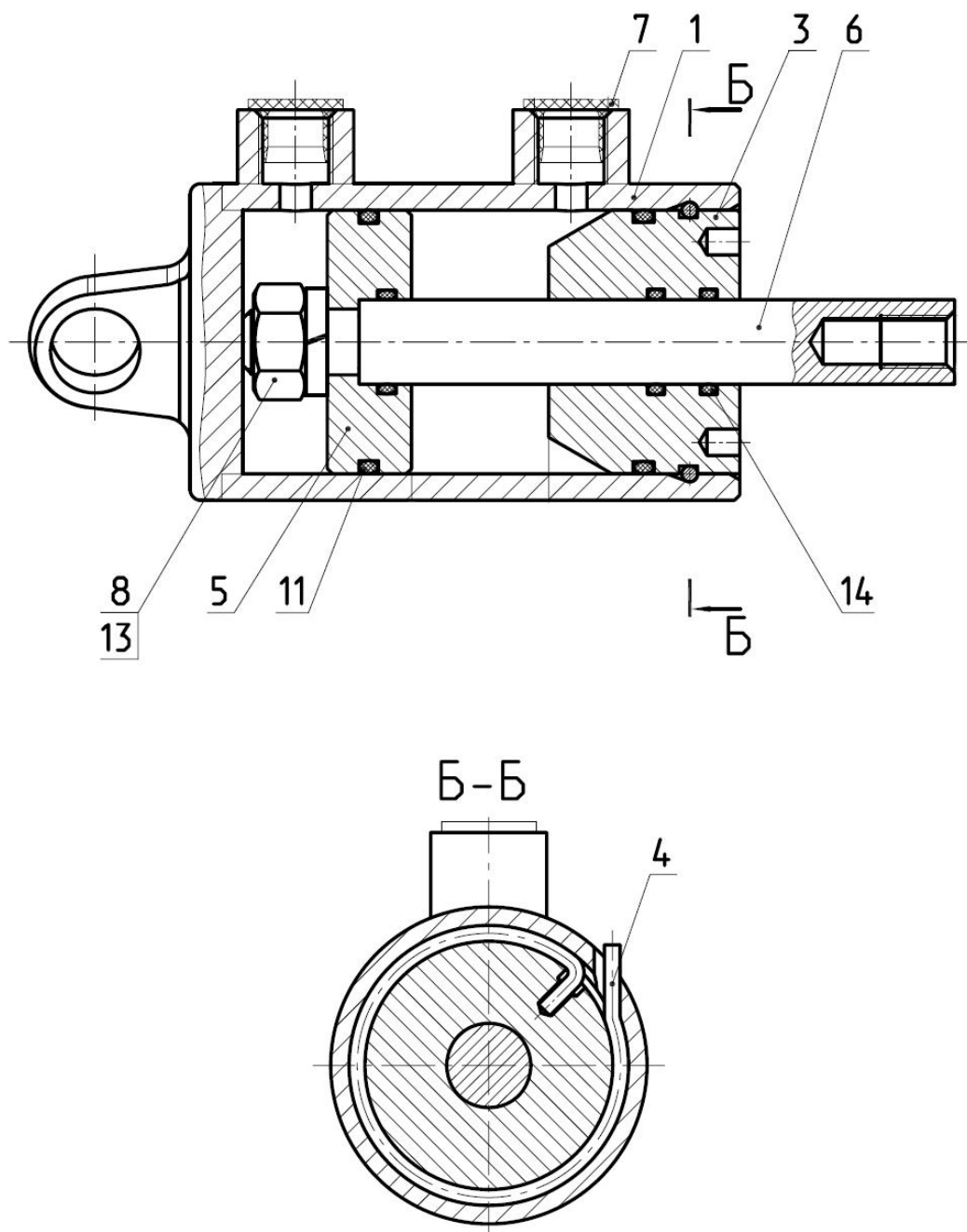


Fig. 17.14 Cylinder

**Group 17 Gear box (GB)
Subgroup 1702. Cylinder**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.14		2102-4216110-B	1	Cylinder
	1	80-4216115-01	1	Housing
	3	80-4216116	1	Cover
	4	80-4216117	1	Pin
	5	80-4216118	1	Piston
	6	80-4216119-B	1	Push rod
	7	80-3405038	2	Temporary cover
	8		1	Nut M12-6H.5.019 GOST 5915-70
	11		2	Ring 045-050-30-2-2 GOST 18829-73/GOST 9833-73
	13		1	Washer 12 OT OST 37.001.115-75
	14		3	Ring 15,54x2,62 DBS/AS MS29513 or 016-020-25-1-4 GOST 18829-73/ GOST 9833-73

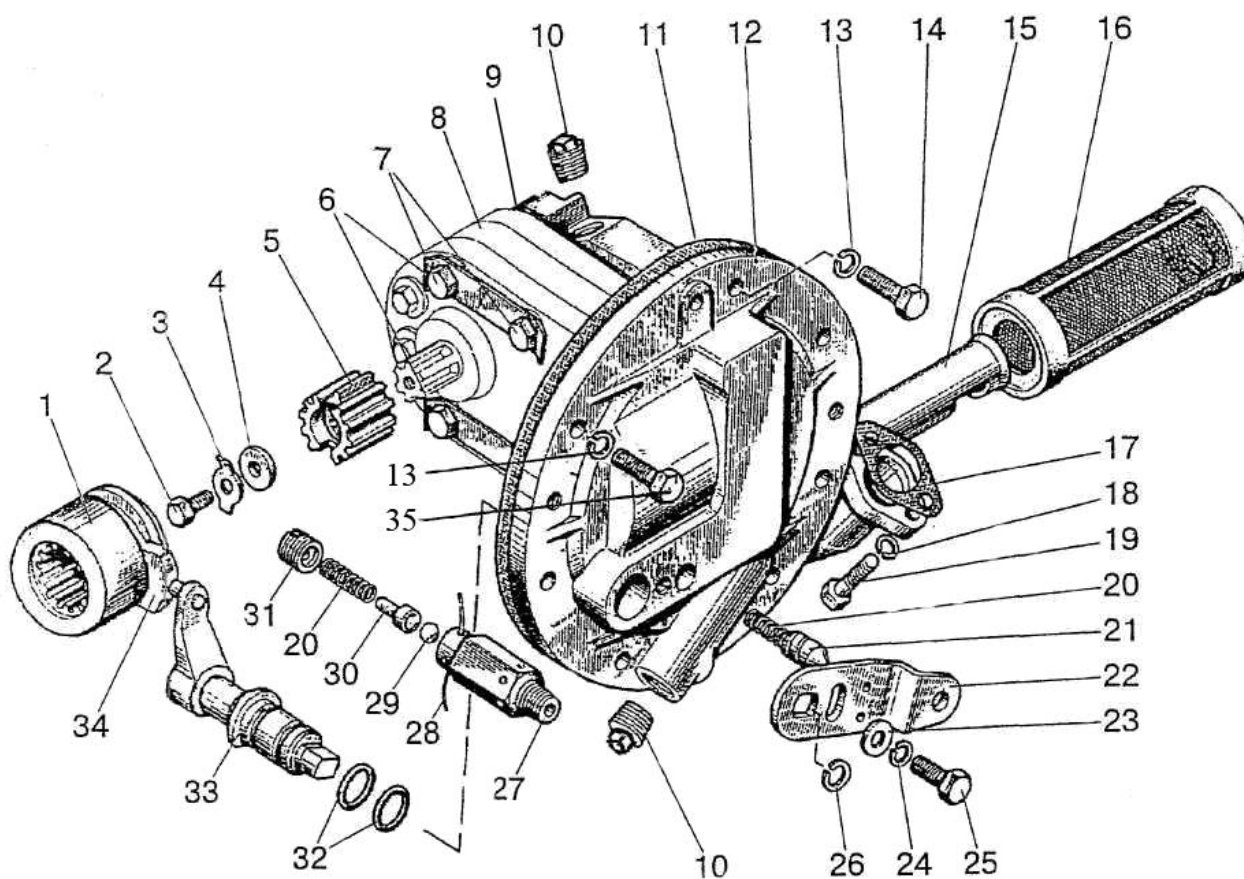


Fig. 17.15 Pump drive

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.15		1222-1704010	1	Pump drive (1-10,12,15-34)
		80-1704040	1	Valve (20,27-31)
	1	80C-1704096-Б	1	Clutch
	2	M8x20	1	Bolt
	3	80-1704034	1	Washer
	4	85-1601108	1	Washer
	5	80-1704014-Б	1	Bushing
	6	80-1704092	2	Locking plate
	7	M12x75	4	Bolt
	8	HMШ25	1	Gear-type oil pump
	9	80-1704093	1	Pump gasket
	10	ПК КГ 3/8"	2	Plug
	11	80-1704016	1	Gasket
	12	1222-1704015	1	Housing
	13	ШП 10	7	Washer
	14	M10x30	6	Bolt
	15	80-1704030	1	Oil pipeline
	16	80-1704050-A	1	Filter
	17	80-1704033	1	Gasket
	18	ШП 8	2	Washer
	19	M8x30	2	Bolt
	20	50-1702148-A	1	Spring
	21	80-1704037	1	Detent
	22	80-1704018	1	Plate
	23	ШЧ10	1	Washer
	24	ШЛ10	1	Washer
	25	M10x25	1	Bolt
	26	2C18	1	Ring
	27	80-1704041	1	Housing
	28	1,0-0-C	1	Wire
	29	10,0-60	1	Ball
	30	80-1704039	1	Guide
	31	80-1704038	1	Plug
	32	020-025-30-1-4	2	Ring
	33	80-1704020-Б	1	Shaft
	34	80-1704021	1	Cotter
	35	M10x25	1	Bolt

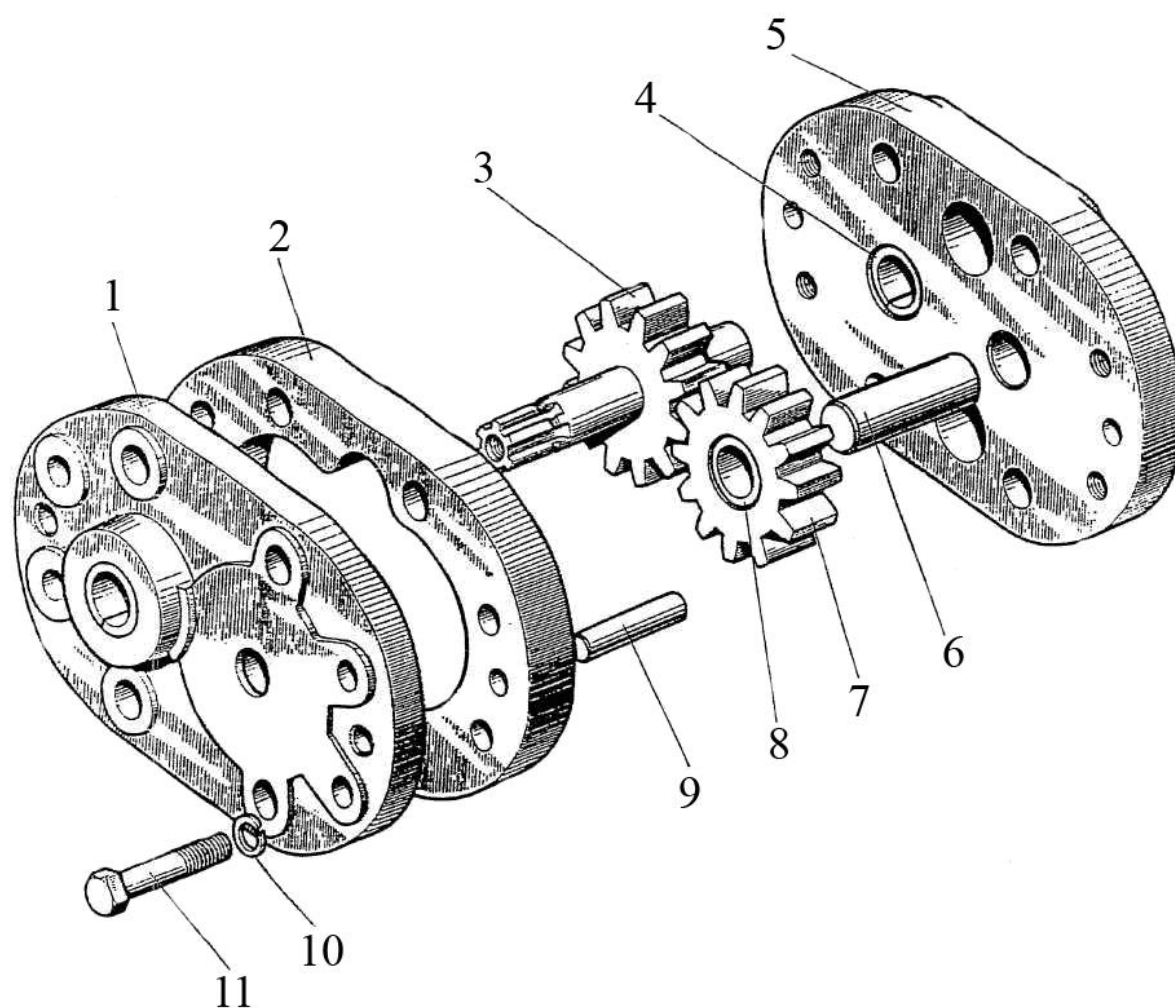


Fig. 17.16 Gear-type oil pump

Group 17 Gear box (GB)
Subgroup 1704. Gear-type oil pump

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.16		HMШ 25	1	Gear-type pump (1-11)
		HMШ 25-01-00	1	Bottom cover (4,5)
		HMШ 25-02-00	1	Top cover (1,4)
		HMШ 50-03-00	1	Driven gear (7,8)
	1	HMШ 25-02-01	1	Top cover
	2	HMШ25-00-01	1	Housing
	3	HMШ 25-00-02	1	Drive gear
	4	HMШ 25-01-02	2	Split bushing
	5	HMШ 25-01-01	1	Bottom cover
	6	HMШ 25-04-01	1	Axis
	7	HMШ 50-03-01	1	Driven gear
	8	HMШ 50-03-02	1	Bushing
	9	HMШ 10x45	2	Pin
	10	ШП10	4	Washer
	11	M10x45	4	Bolt

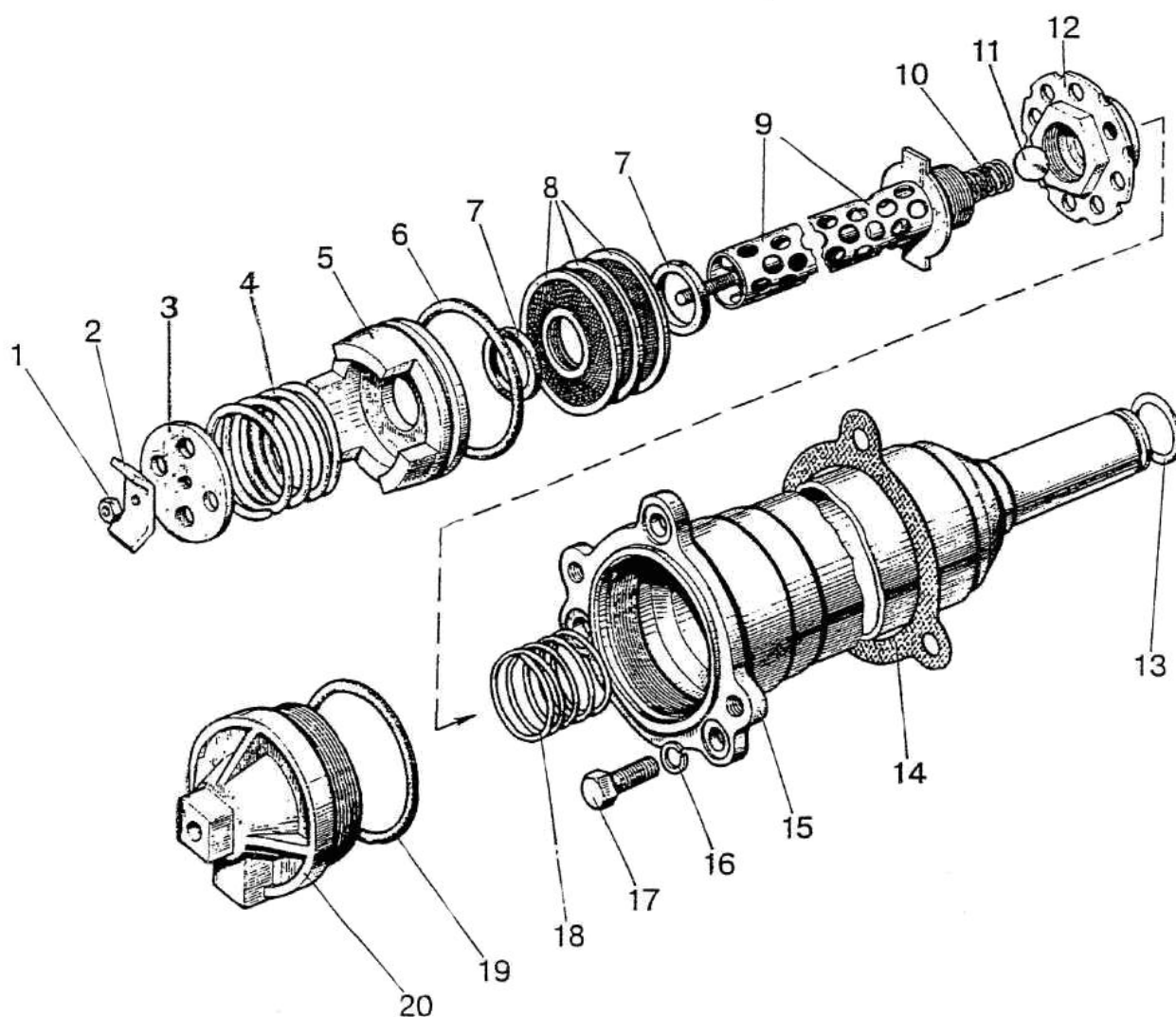


Fig. 17.17 Filter

Group 17 Gear box (GB)
Subgroup 1716. Filter

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.17		80-1716010	1	Filter (1-13, 15,18-20)
		80-1716040	1	Filter pipe (9-12)
		80-1716030	1	Filter (2-5, 7-13)
	1	M5	1	Nut
	2	80-1716033	1	Joke
	3	80-1716032	1	Washer
	4	80-1716034	1	Spring
	5	80-1716031	1	Piston
	6	059-065-36-2-4	1	Ring
	7	80-4608024	2	Ring
	8	80-1716080	45	Filter element
	9	80-1716050	1	Pipe
	10	80-1716041	1	Spring
	11	15.081-100	1	Ball
	12	80-1716060	1	Housing
	13	022-025-19-1-4	1	Ring
	14	80-1716016	1	Gasket
	15	80-1716020	1	Housing
	16	ШП10	3	Washer
	17	M 10x25	3	Bolt
	18	80-1716018	1	Spring
	19	066-071-30-1-4	1	Ring
	20	80-1716015	1	Cover

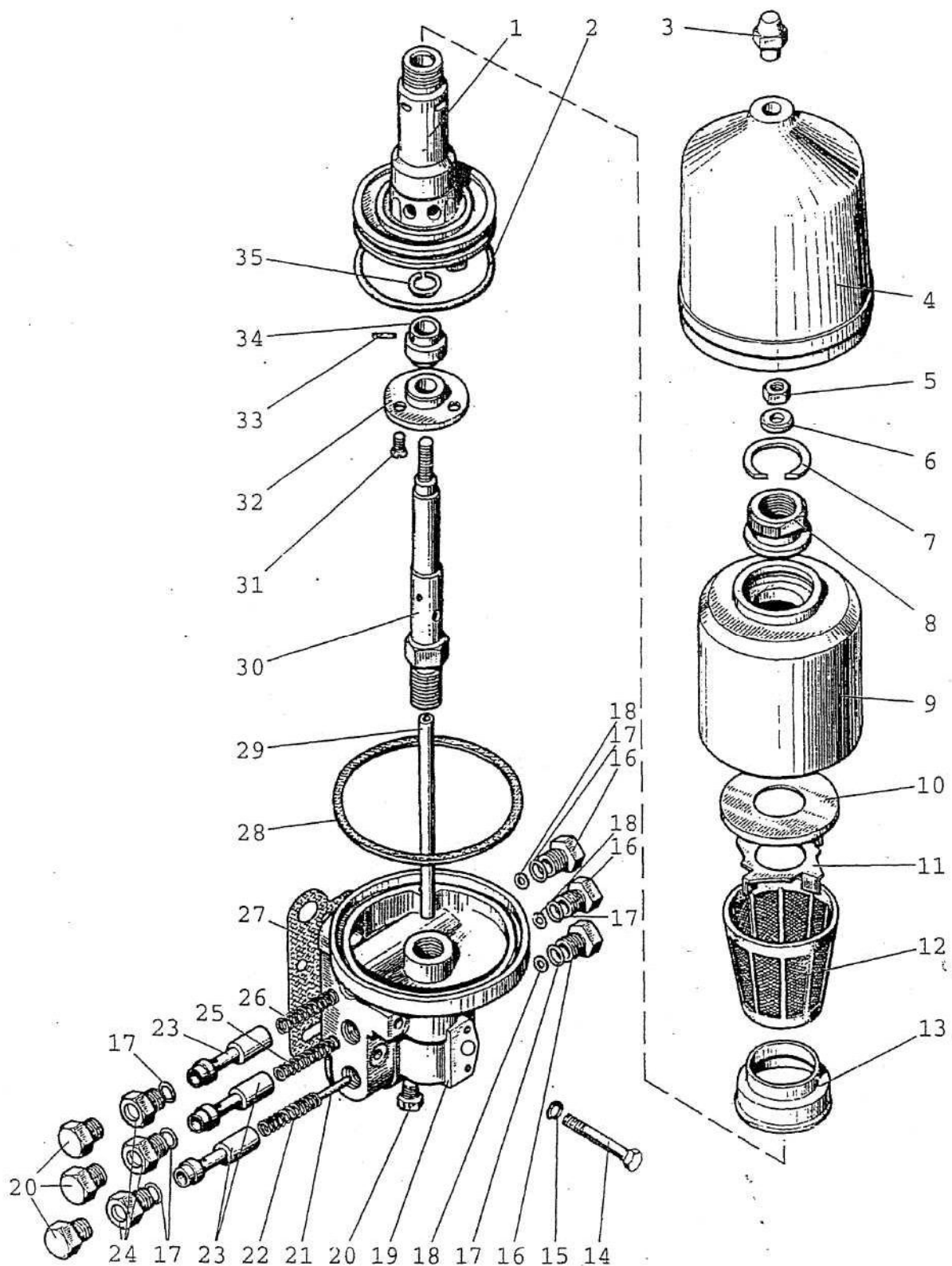


Fig. 17.18 Distribution filter

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.18		80-1737110	1	Distribution filter (1-13. 16-35)
		80-1028020	1	Rotor with axis (1,2,5-13,29-35)
		240-1404030-A	1	Rotor sleeve (7-9)
		80-1028080	1	Rotor axis (29. 30, 32-35)
	1	240-1404017-B	1	Rotor housing
	2	115-120-30-2-1	1	Ring
	3	240-1404088	1	Cap nut
	4	240-1404027	1	Filter cap
	5	M12X1,25	1	Nut
	6	Д37А-1407607-B	1	Thrust washer
	7	240-1404033	1	Thrust ring
	8	240-1404035-A	1	Special nut
	9	240-1404023	1	Rotor sleeve
	10	240-1404113	1	Cover
	11	240-1404024	1	Rotor impeller
	12	240-1404110	1	Filter net
	13	240-1404049	1	Inner sleeve
	14	M10x70	4	Bolt
	15	ШП 10	4	Washer
	16	50-1404075	3	Valve plug
	17	1221-1737126	6	Valve gasket
	18	ШЧ5*	6 max	Washer
	19	80-1737111	1	Housing
	20	КГ 1/8"	4	Plug
	21	6h 11x45	1	Pin
	22	70-4801045	1	Spring
	23	80-1737117	3	Valve
	24	1221-1737114	3	Plug

* upon demand

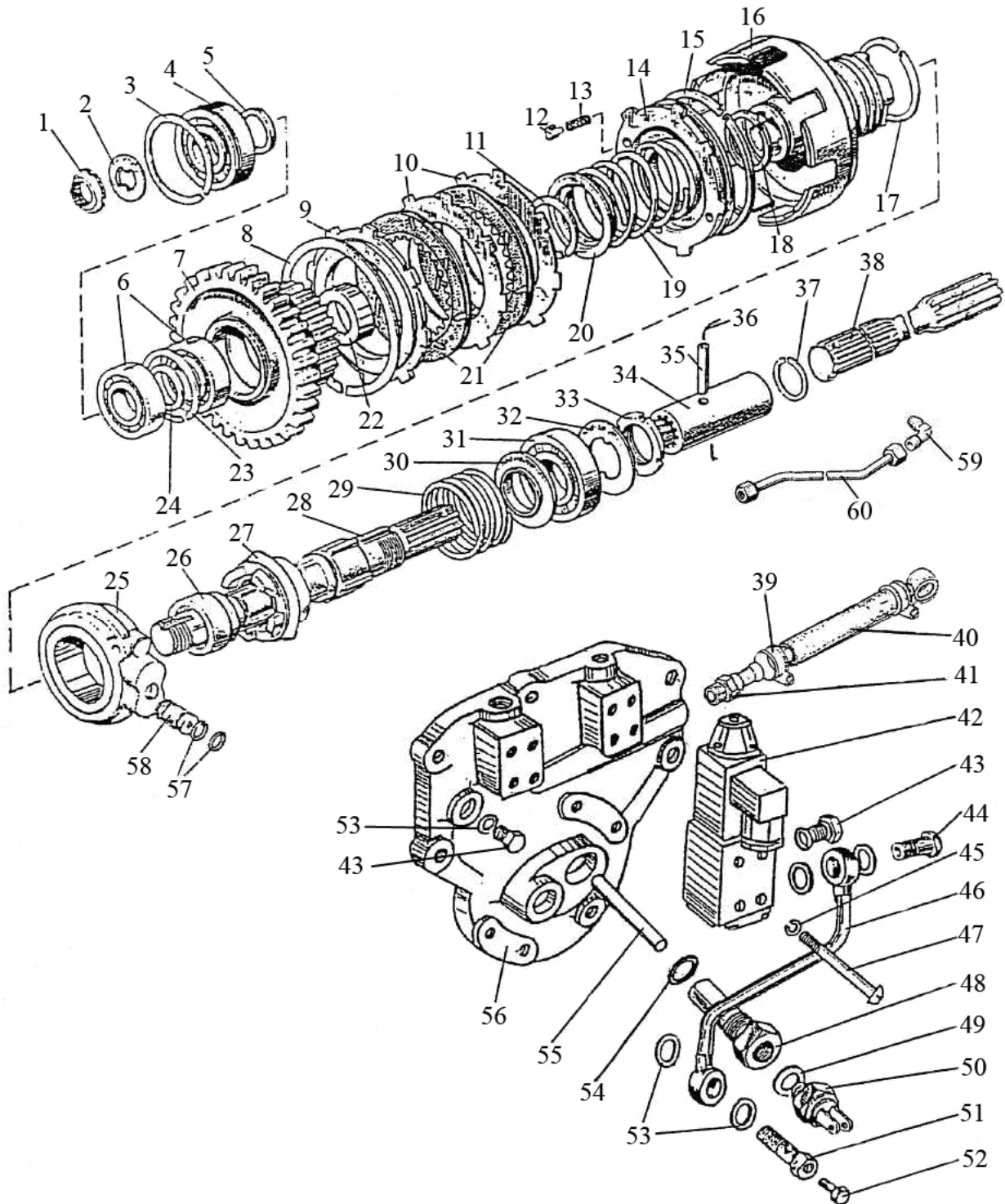


Fig. 18.1 Drive of front driving axle

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
18.1		1221-1802030	1	Friction (1221-1802040, 8-22, 25)
		1221-1802040	1	Gear(6, 7, 23, 24)
		1521-1802065	1	Shaft (28, 30-36)
		1221-1802070	1	Shaft (37, 38)
	1	1221-1802023	1	Nut
	2	1221-1802019	1	Washer
	3	80-1701397	1	Ring
	4	6-50306K	1	Bearing
	5	1521-1802043	1	Bushing
	6	206A	2	Bearing
	7	1221-1802041	1	Gear
	8	C135	1	Ring
	9	86-1802034	1	Thrust disk
	10	86-1802032*	3-4	Driven disk S=1,8 mm
		1221-1802032*	3-4	Driven disk S=2 mm
	11	C48	1	Ring
	12	86-1802039	2	Guide
	13	86-1802048	2	Spring
	14	1221-1802031	1	Piston
	15	86-1802047	1	Ring
	16	1221-1802036	1	Drum
	17	86-1802083-A	2	Ring
	18	1221-1802333	1	Ring
	19	86-1802038	1	Spring
	20	86-1802046	1	Sleeve
	21	86-1802035-A	7	Drive disk
	22	1221-1802044	1	Bushing
	23	C62	1	Ring
	24	86-1802049	1	Ring
	25	1221-1802025	1	Cage
	26	86-1802028	1	Bushing
	27	8020-1802026	1	Half coupling
	28	1521-1802013	1	Shaft
	29	86-1802027	1	Spring
	30	86-1802051	1	Washer
	31	207	1	Bearing
	32	86-1802052	1	Washer
	33	52-2308097	1	Nut
	34	86-1802014-B	1	Bushing
	35	A.8x40.65Г	1	Pin
	36	1,6-0-C	1	Wire L=140 mm
	37	86-1802017-B	1	Ring
	38	1221-1802042	1	Shaft
	39	12-20/9C6W	1	Clamp «NORMA»
	40	1221-1802060-B	1	Pipe line
	41	85-3407470	1	Union body
	42	RH06101-012/00GA-AMP or 1PГE-6T/3.574E.Г12.01	1	Hydraulic distributor valve
	43	1221-1802091	3	Thread plug

* Selection

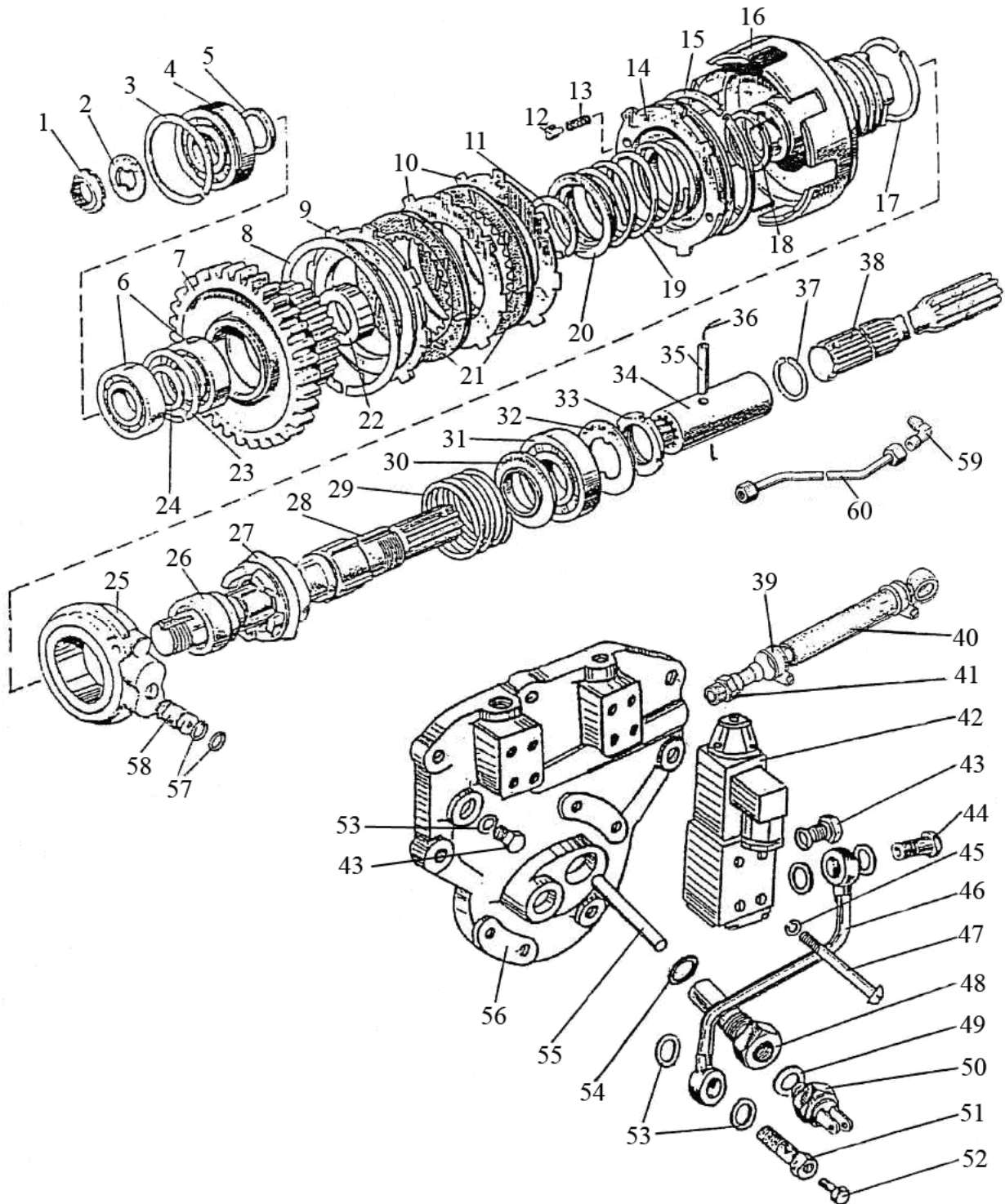


Fig. 18.1 Drive of front driving axle

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
18.1	44	Д18-051	1	Bolt
	45	ШП5	8	Washer
	46	1221-1802050	1	Pipe line
	47	BM5x50	8	Screw
	48	8020-1802018	1	Guide
	49	50-1702048*	6 max	Gasket
	50	BK 12-51	1	Switch
	51	1520-1802088	1	Bolt
	52	КГ 1/8"	1	Plug
	53	Д18-055-A	7	O-ring
	54	019-022-19-2-2	1	Ring
	55	8020-1802029	1	Lifter
	56	1221-1802016	1	Cover
	57	011-016-30-2-4	2	Ring
	58	1221-1802054	1	Bushing
	59	86-1802088	1	Elbow
	60	86-1802055	1	Pipe line

* Selection

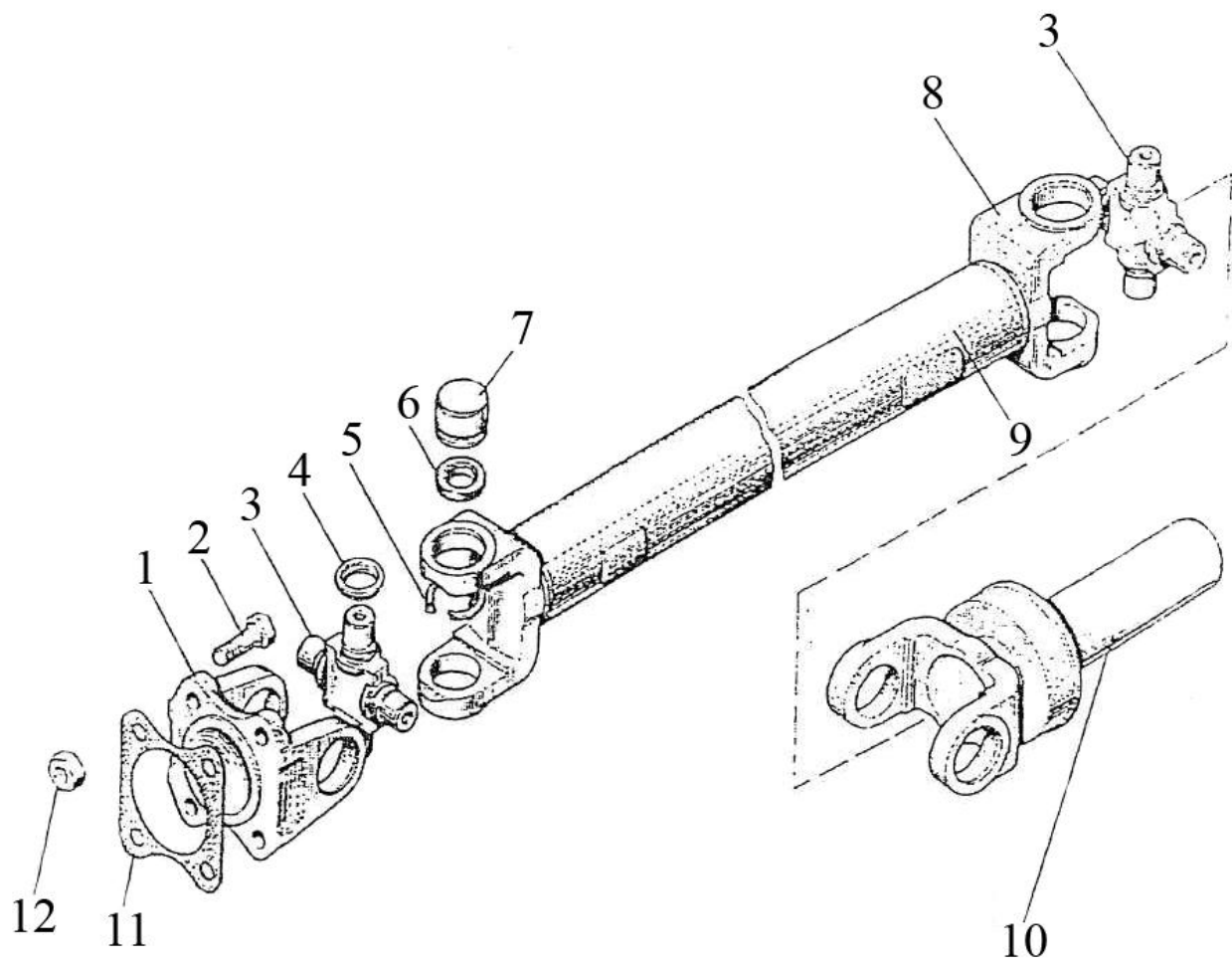


Fig. 22.1 Cardan drive

Group 22. Cardan drive
Subgroup 2203. Cardan drive

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
22.1		112-2203010	1	Cardan shaft (1,3-10)
		72-2203025PH	1	Cross bar with bearings (3,4,6,7)
	1	72-2203023	1	Flange
	2	52-2203012	4	Bolt
	3	72-2203030-01	2	Cross bar
	4	3102-2201037	8	Deflector
	5	34-2201043	8	Lock ring
	6	69-2201031-A	8	Collar
	7	704702K3C10	8	Bearing
	8	72-2203022	2	Yoke
	9	112-2203018	1	Pipe
	10	86-2203047	1	Slip yoke
	11	20-2201024	1	Gasket
	12	M10x1-8 DIN EN ISO 10511	4	Nut

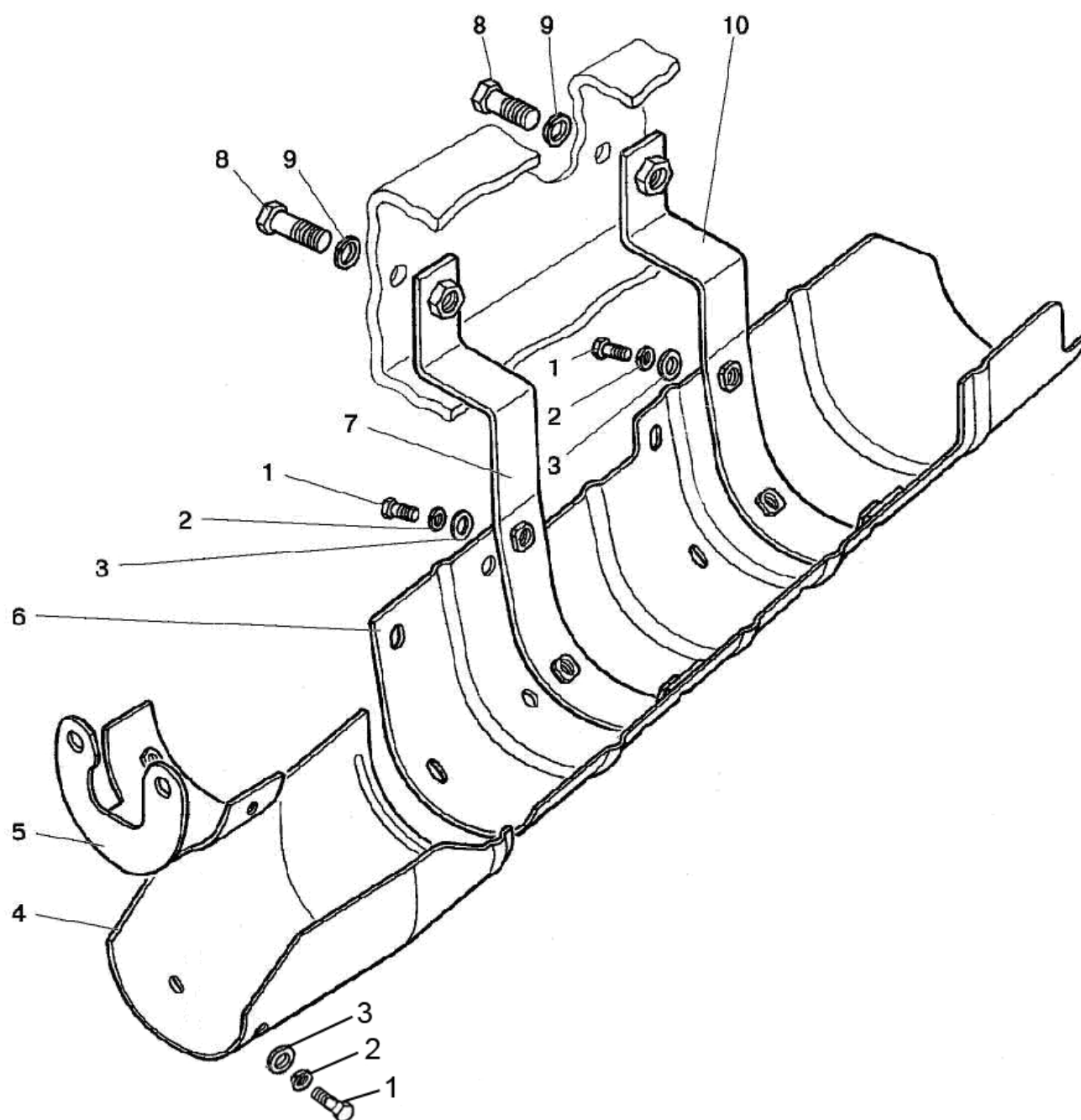


Fig. 22.2 Guard

Group 22. Cardan drive
Subgroup 2210. Guard

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
22.2	1		8	Bolt M8-6gx20.88.35.019 GOST 7796-70
	2		8	Washer 8T OST 37.001.115-75
	3		8	Washer C 8.01.019 GOST 11371-78
	4	52-2210012-A	1	Housing
	5	52-2210015	1	Bracket
	6	1025-2210013	1	Housing
	7	1025-2210015	1	Bracket
	8		2	Bolt M16-6gx50.88.35.019 GOST 7796-70
	9		2	Washer 16 OT OST 37.001.115-75
	10	1025-2210010	1	Bracket

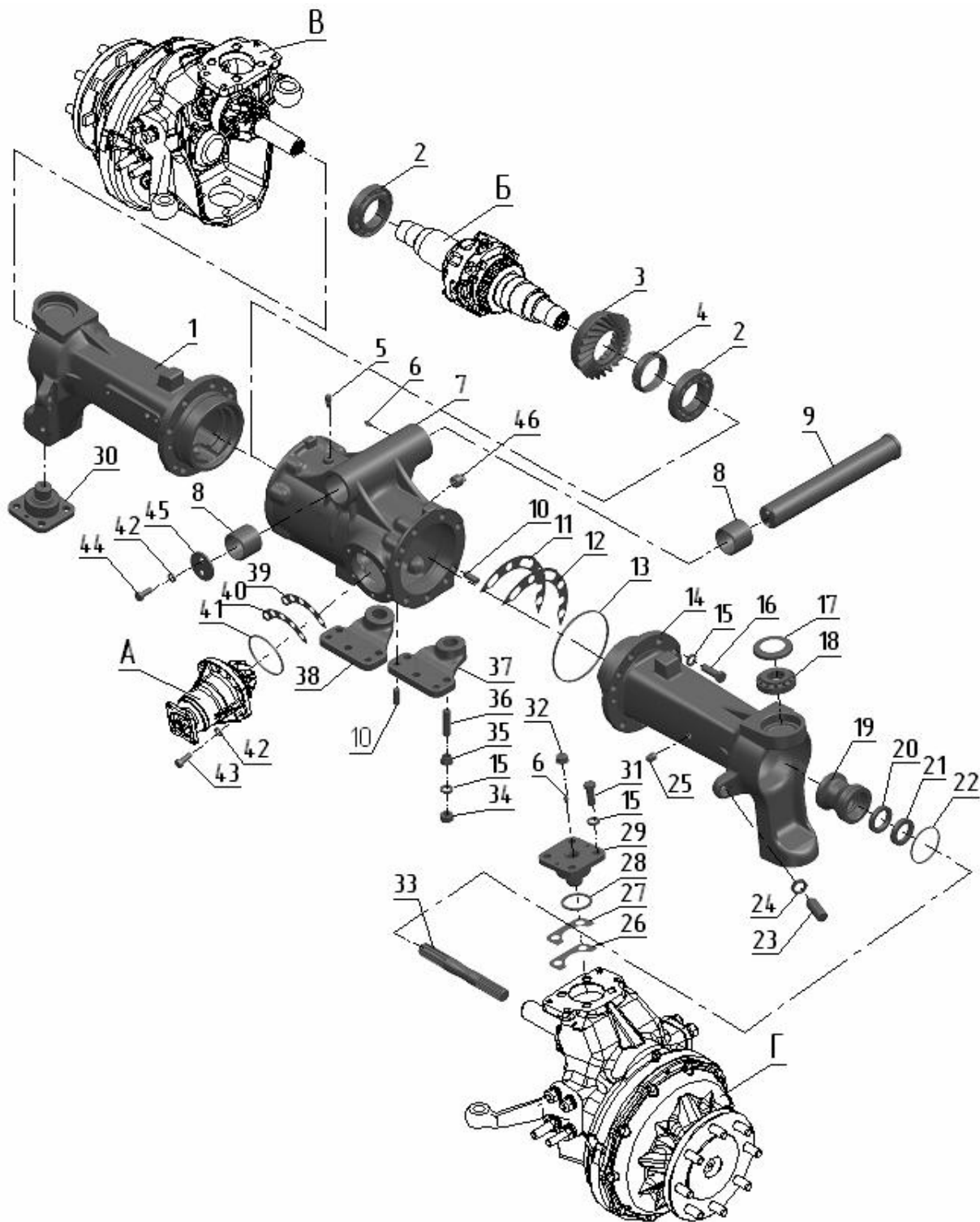


Fig. 23.1 Front driving axle

Group 23. Front driving axle
Subgroup 2300, 2302, 2303, 2308. Front driving axle.

Main gear of front driving axle. Differential. Final drive reduction gear unit of front driving axle.

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.1		1222-2300020 1222-2300020-05	1	Front driving axle assembly
	A	52-2302010	1	Main gear of front driving axle
	B	52-2303010-B-01	1	Differential
	B	822-2308005-02* 822-2308005-06**	1	Left final drive reduction gear unit of front driving axle
	Г	822-2308005-03* 822-2308005-07**	1	Right final drive reduction gear unit of front driving axle
	1	822-2301051-01	1	Left hose
	2	263212A	2	Bearing
	3	52-2302019	1	Gear
	4	52-2302038-A1	1	Nut
	5	TSS0G-1/8"	1	Breather
	6	1.3.LI9.xp	5	Oiler
	7	1420-2301055	1	Housing
	8	40-3001022	2	Bushing
	9	1222-3000012	1	Axis pin
	10	Д01-015	8	Pin
	11	52-2303027	16	Shim B=0,5 mm
	12	52-2303028	16	Shim B=0,2 mm
	13	150-155-36-1-4	2	Ring
	14	822-2301053-01	1	Right hose
	15	16 OT	36	Washer
	16	M16x45	14	Bolt
	17	1520-2308039	4	Sleeve
	18	1027307A (31307)	4	Bearing
	19	822-2308100	2	Cage
	20	1.2-38x58-1	2	Collar
	21	2.2-38x58-1	2	Collar
	22	075-080-30-1-4	2	Ring
	23	1520-2308009	2	Screw
	24	85-3407113	2	Nut
	25	ПК КГ 3/8"	2	Plug
	26	52-2302021	6	Shim B=0,5 mm
	27	52-2302022	10	Shim B=0,2 mm
	28	055-063-46-1-4	4	Ring
	29	1520-2308037	3	Axis

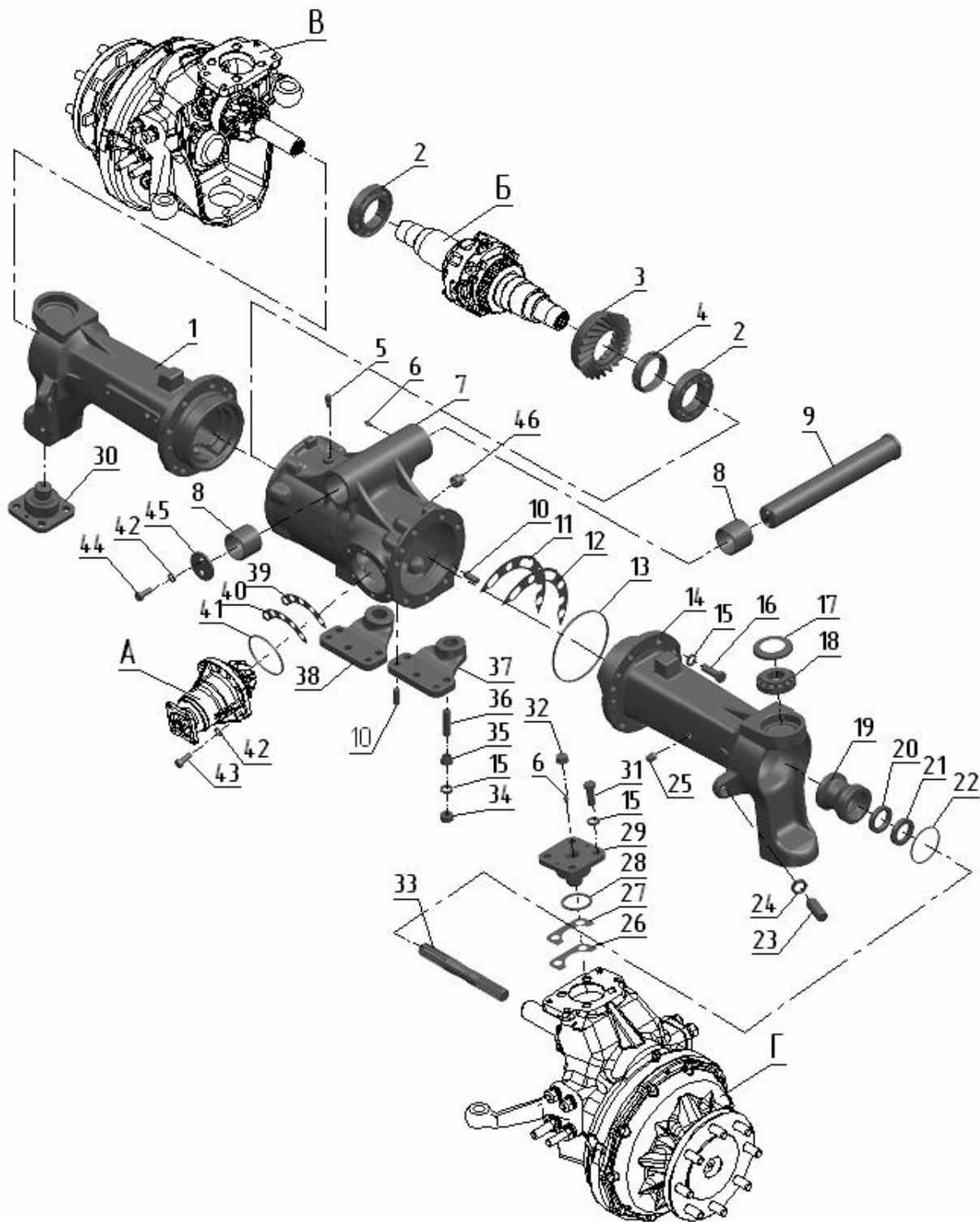


Fig. 23.1 Front driving axle

Group 23. Front driving axle
Subgroup 2300, 2302, 2303,2308. Front driving axle.

Main gear of front driving axle. Differential. Final drive reduction gear unit of front driving axle.

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.1	30	1520-2308037-01	1	Axis
	31	M16x40	16	Bolt
	32	85-4607447	4	Cap
	33	822-2308065-01	2	Shaft
	34	M16	6	Nut
	35	1520-2308077	6	Bushing
	36	1520-2308079	6	Stud
	37	1222-2301021	1	Right bracket
	38	1222-2301022	1	Left bracket
	39	1520-2308042	8	Shim B=0,2 mm
	40	1520-2308042-01	20	Shim B=0,5 mm
	41	089-095-36-1-4	1	Ring
	42	12 OT	8	Washer
	43	M12x30	6	Bolt
	44	72-2308018	2	Bolt
	45	72-2308031	1	Washer
	46	ПК КГ 3/4"	2	Plug

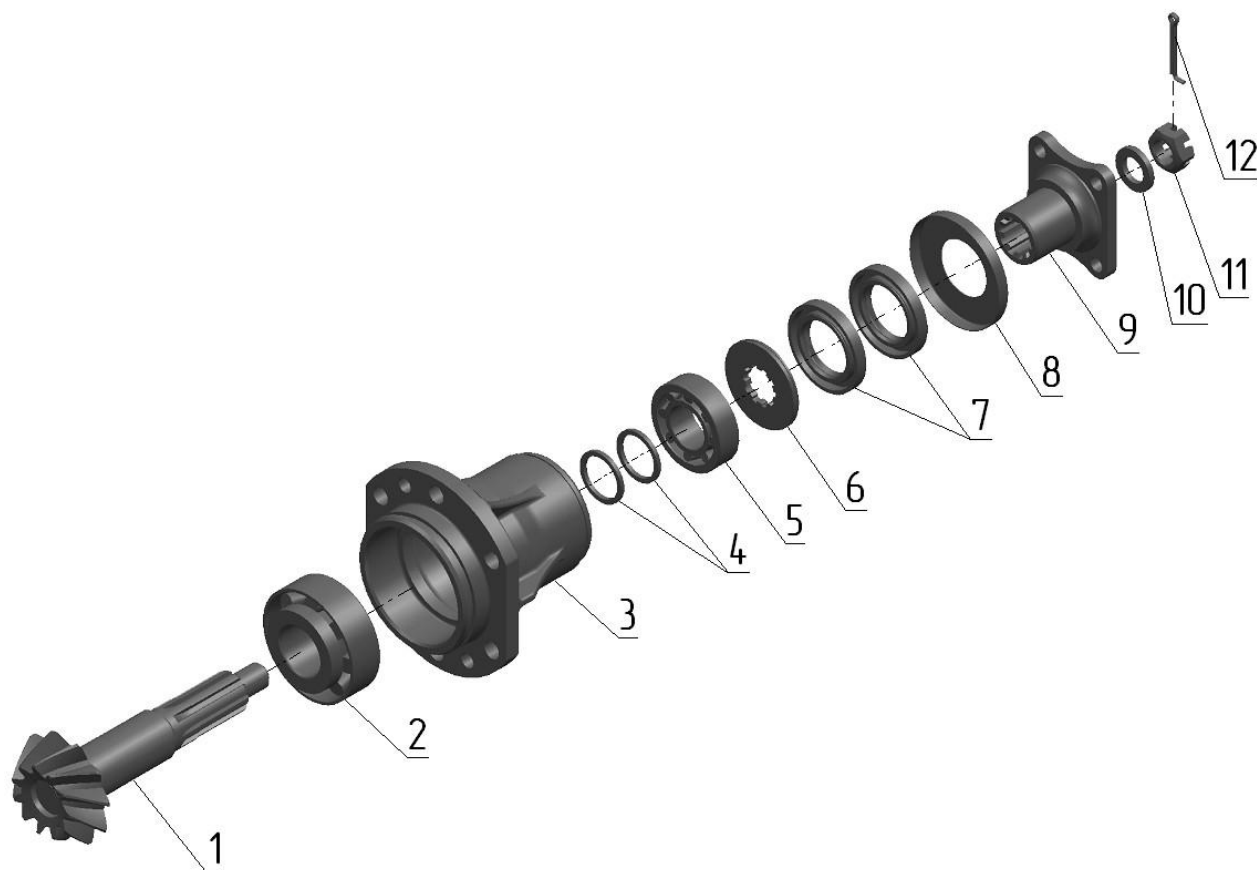


Fig. 23.2 Main gear of front driving axle (1222-2300020-05)

Group 23. Front driving axle
Subgroup 2302. Main gear of front driving axle (1222-2300020-05)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.2		52-2302010-P	1	Gear set (1-12 and 3(Fig.62.1))
		52-2302030	1	Driven and drive gear assembly (1 and 3 (Fig.62.1))
	1	52-2302015-A	1	Gear
	2	7607A	1	Bearing
	3	52-2302016-A	1	Sleeve
	4	52-2302026	2	Adjusting washer B=2,65 mm
		52-2302026-01	2	Adjusting washer B=2,70 mm
		52-2302026-02	2	Adjusting washer B=2,75 mm
		52-2302026-03	2	Adjusting washer B=2,90 mm
		52-2302026-04	2	Adjusting washer B=3,05 mm
		52-2302026-05	2	Adjusting washer B=3,20 mm
		52-2302026-06	2	Adjusting washer B=3,30 mm
		52-2302026-07	2	Adjusting washer B=3,35 mm
		52-2302026-08	2	Adjusting washer B=3,40 mm
	5	7506A	1	Bearing
	6	52-23020018	1	Ring
	7	2.2-38x62-1/4	2	Collar
	8	82-2302031	1	Blind plug
	9	52-1802078-A	1	Flange
	10	52-1802079	1	Washer
	11	70-3003032	1	Nut
	12	4x25	1	Forelock

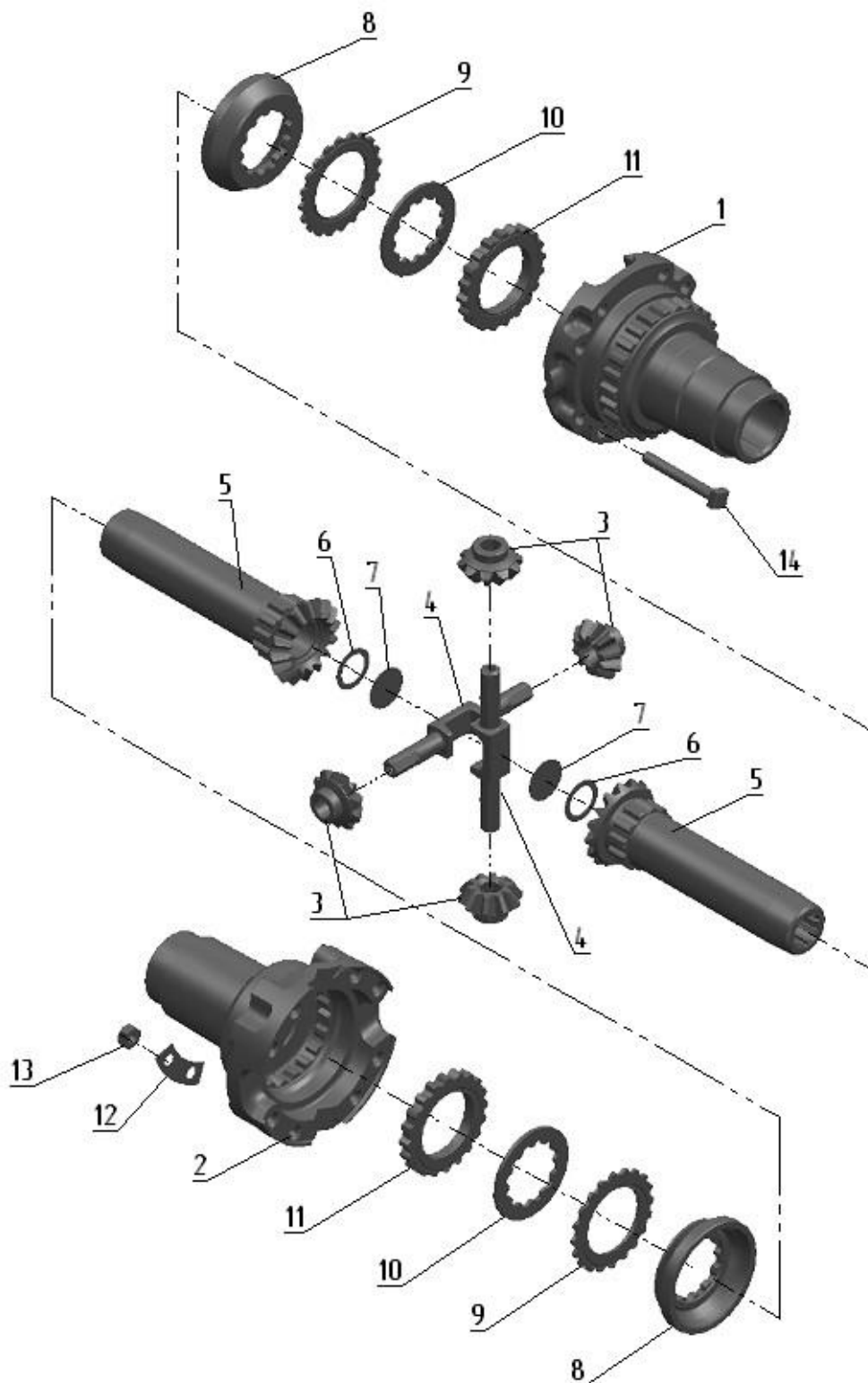


Fig. 23.3 Differential

Group 23. Front driving axle
Subgroup 2303. Differential

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.3		52-2303010-B-01	1	Differential (1-14)
		52-2303030	2	Gear(5-7)
	1	52-2303014-B	1	Box
	2	52-2303015-B	1	Box
	3	52-2303018	4	Satellite gear
	4	52-2303019	2	Axis
	5	52-2303017	2	Gear
	6	52-2303034	2	Gasket
	7	35-10	2	Blind plug
	8	52-2303021	2	Cup
	9	52-2303023-A1-01	2	Disk
	10	52-2303024-01	2	Disk
	11	52-2303023-A1	2	Disk
	12	52-2303032	4	Plate
	13	52-2303013	8	Nut
	14	52-2303026-B	8	Bolt

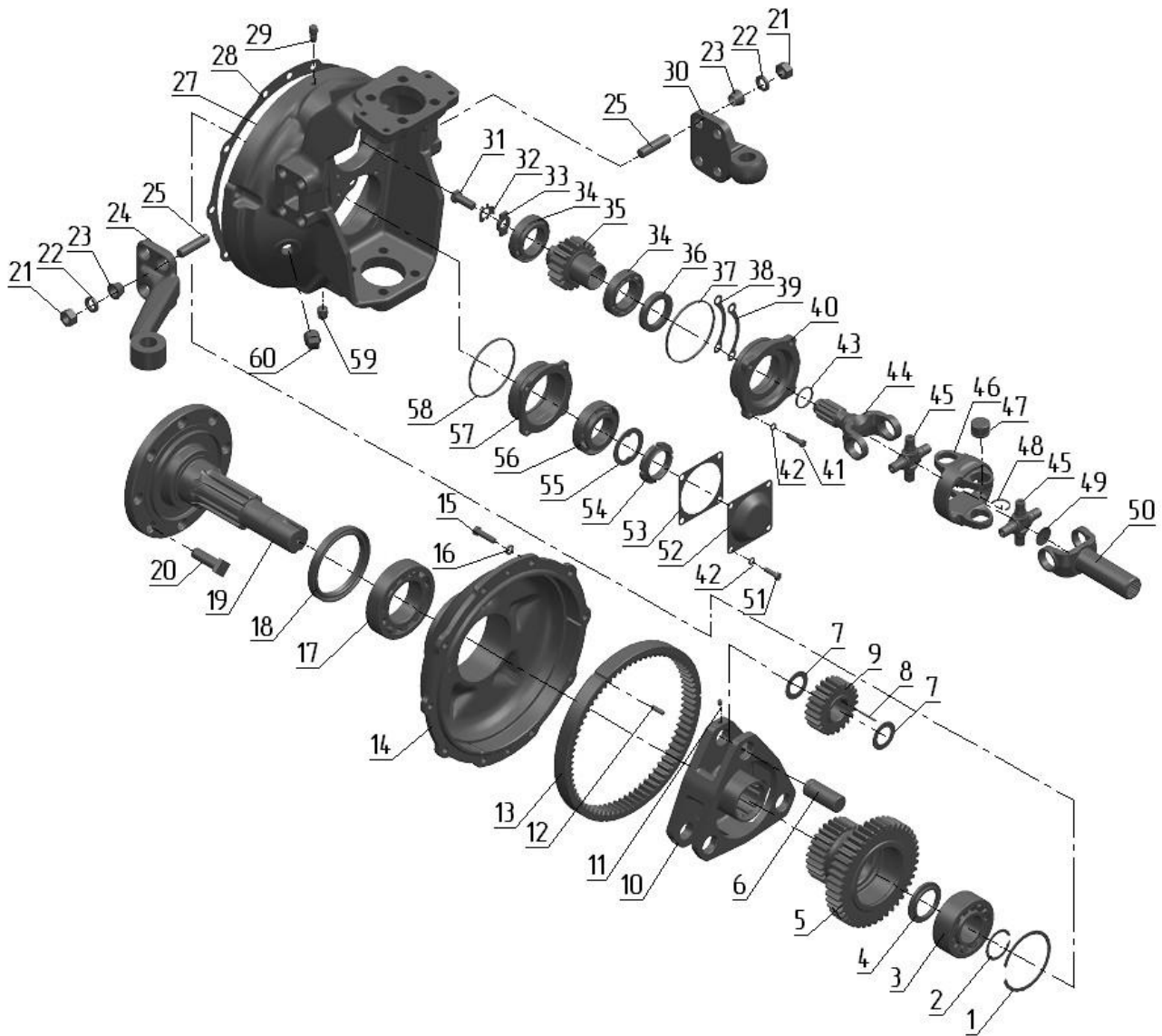


Fig. 23.4 Final drive reduction gear unit of front driving axle (1222-2300020-05)

Group 23. Front driving axle
Subgroup 2308. Final drive reduction gear unit of front driving axle
(1222-2300020-05)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.4		822-2308005-02*	1	Left reduction gear unit (1-60)
		822-2308005-06**	1	Left reduction gear unit (1-60)
		822-2308005-03*	1	Right reduction gear unit (1-60)
		822-2308005-07**	1	Right reduction gear unit (1-60)
		1520-2308024-05**	2	Double hinge (43-50)
		1520-2308040-20	2	Housing (27,29,31-50)
		1520-2308040*	2	Housing (27,29,31-50)
		1520-2308080	2	Sleeve (36,37,40)
		1521-2308020	2	Cover (12-14)
		1521-2308030	2	Pinion cage (6-11)
		1521-2308050*	2	Hub (1-20)
		1521-2308050-05**	2	Hub (1-20)
	1	2C100	2	Ring
	2	C45	2	Ring
	3	53609	2	Bearing
	4	1520-2308038	2	Ring
	5	1520-2308062*	2	Gear set
		1520-2308062-05**	2	Gear set
	6	1520-2308053	6	Axis
	7	1520-2308054	12	Washer
	8	4x34,8A3	156	Roller
	9	1520-2308059	6	Satellite gear
	10	1521-2308056	2	Pinion cage
	11	1520-2308011	6	Screw
	12	2.8x25	6	Pin
	13	1520-2308064	2	Gear
	14	1521-2308016	2	Cover
	15	M10x35	20	Bolt
	16	10 OT	20	Washer
	17	7514A	2	Bearing
	18	2.2-100x125-1	2	Collar
	19	1521-2308017-01	2	Flange
	20	40-3103016	16	Front wheel bolt
	21	M16	16	Nut
	22	16 OT	16	Washer
	23	1520-2308077	12	Bushing
	24	1520-2308074	1	Left lever
		1520-2308074-01	1	Right lever
	25	1520-2308079	12	Stud
	27	1520-2308015	2	Housing
	28	1520-2308034	2	Gasket
	29	TSSOG-1/8"	2	Breather
	30	1222-2308076	1	Right bracket
		1222-2308077	1	Left bracket
	31	1521-2308012	2	Bolt

* For FDA 1222-2300020

** For FDA 1222-2300020-05

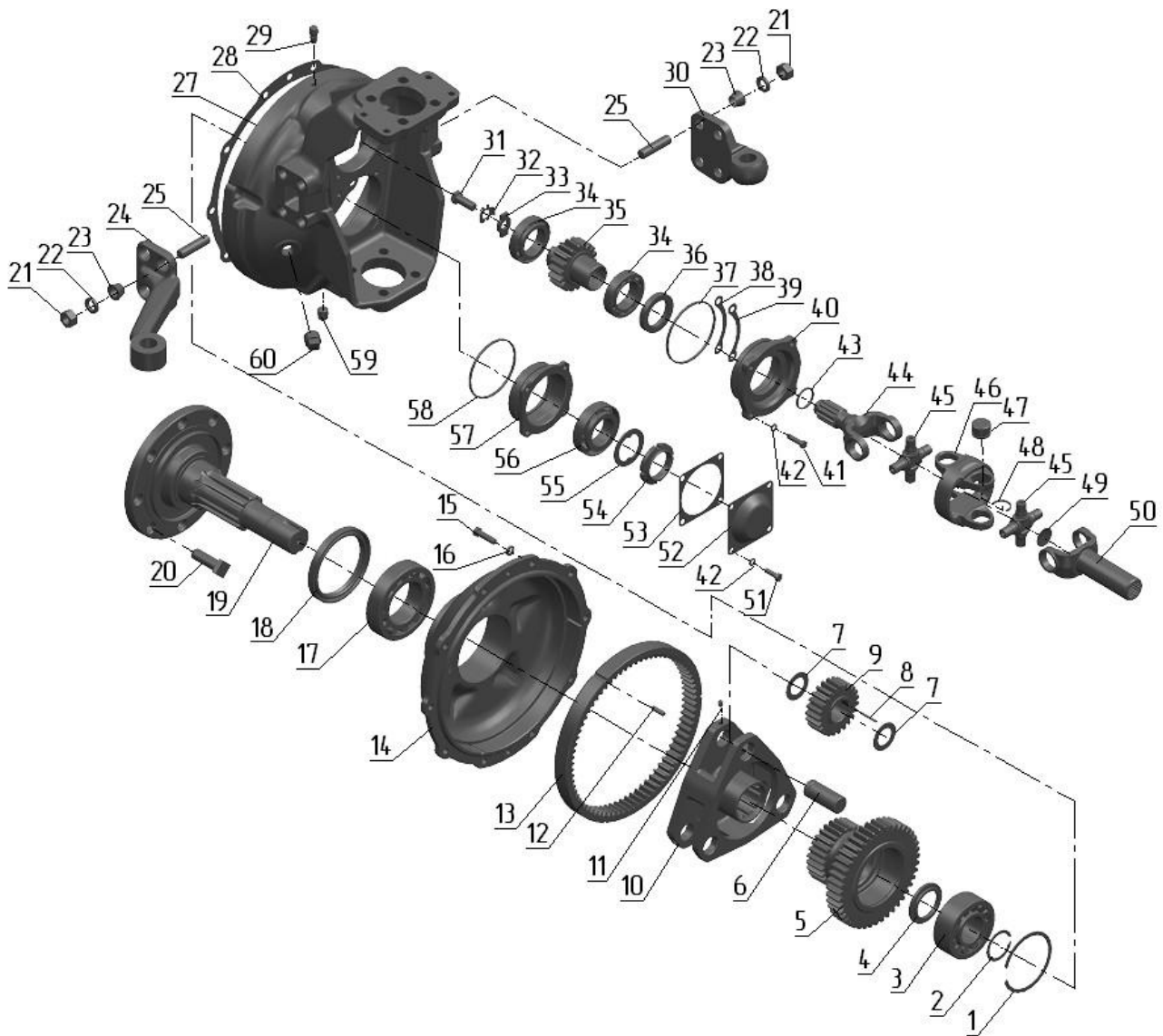


Fig. 23.4 Final drive reduction gear unit of front driving axle (1222-2300020-05)

Group 23. Front driving axle
Subgroup 2308. Final drive reduction gear unit of front driving axle
(1222-2300020-05)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.4	32	1521-2308031	2	Locking plate
	33	1521-2308013	2	Washer
	34	2007109	4	Bearing
	35	1520-2308061*	2	Gear
		1520-2308061-05**	2	Gear
	36	2.2-45x65-1	2	Collar
	37	100-105-30-2-4	2	Ring
	38	1520-2308021	20	Shim
	39	1520-2308021-01	8	Shim
	40	1520-2308035	2	Sleeve
	41	M8x30	8	Bolt
	42	8T	16	Washer
	43	032-036-25-2-4	2	Ring
	44	1520-2308063-10	2	Yoke
	45	72-2203026-11	4	Cross bar
	46	15.22.01.013-10	2	Double hinge yoke
	47	704702K3C10	16	Bearing
		24-2201043-01	16	Lock ring
	48	24-2201043-10	16	Lock ring
		24-2201043-20	16	Lock ring
		24-2201043-30	16	Lock ring
	49	32	2	Blind plug
	50	1520-2308048	2	Yoke
	51	M8x25	8	Bolt
	52	1520-2308004	2	Cover
	53	1520-2308003	2	Gasket
	54	80-1701045	2	Nut
	55	80-1701056	2	Washer
	56	7509A	2	Bearing
	57	1520-2308002	2	Sleeve
	58	095-100-30-1-4	2	Ring
	59	ПК КГ 3/8"	2	Plug
	60	ПК КГ 3/4"	2	Plug

* For FDA 1222-2300020

** For FDA 1222-2300020-05

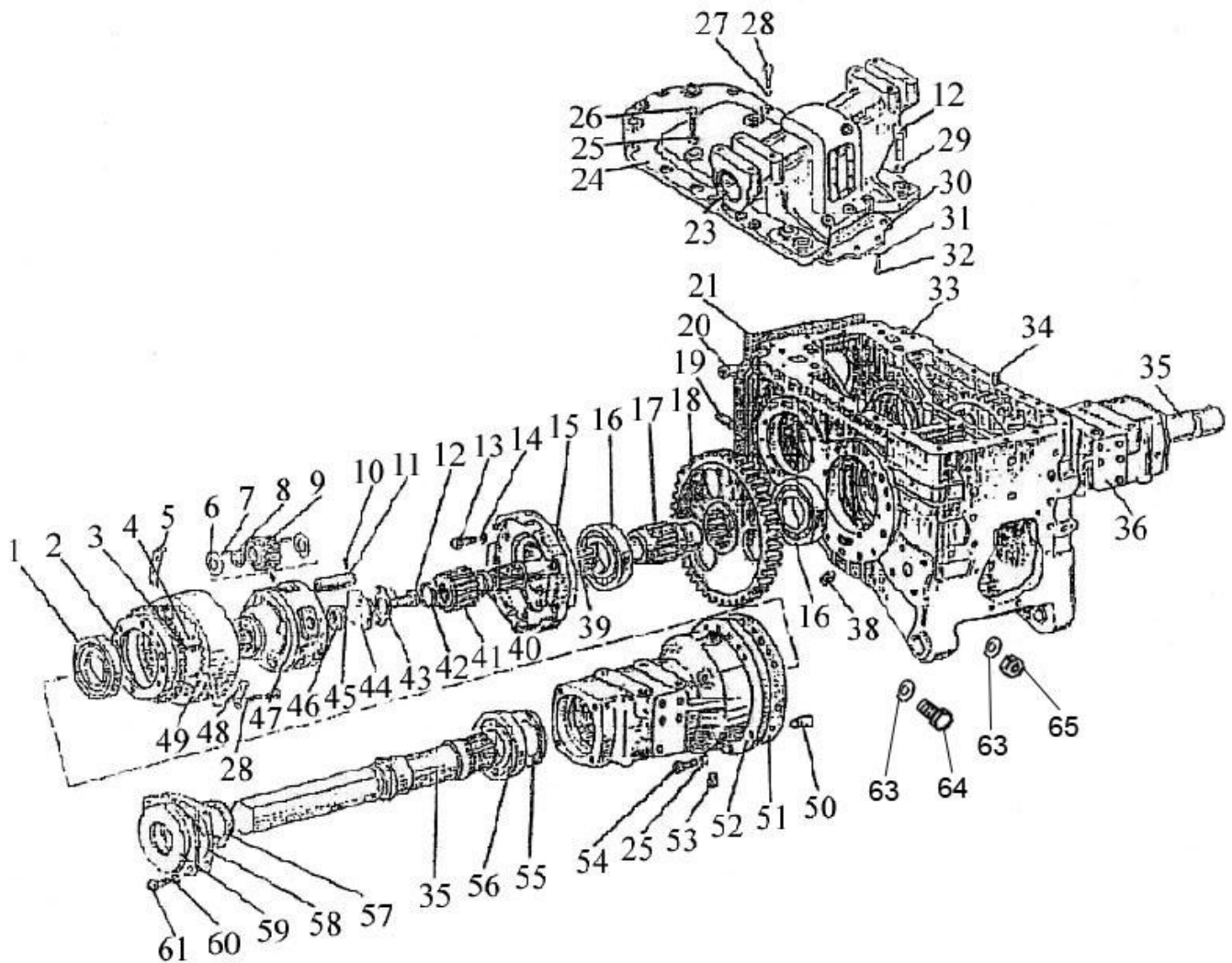


Fig. 24.1 Rear axle housing

Group 24. Rear axle
Subgroup 2401, 2407. Rear axle housing. Final drive

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.1		1523M-2401010	1	Rear axle
		1221-2407540	2	Drive gear (39-42)
		1221-2407130	2	Sleeve (15,16)
		1221-2407535-A1	2	Pinion cage (6-11,47)
		1522-2407500-02	1	Left final drive (1-5, 12, 35,43-46, 48-49, 52, 53, 56-61)
		1522-2407500-03	1	Right final drive (1-5, 12, 35, 36, 43-46, 48-49, 52, 56-61)
		1221-2407030	2	Cover (57, 59)
		1522-2401030	1	Cover (23, 24,30-32)
	1	7217A	2	Bearing
	2	1221-2407502-B	2	Epicycle hub
	3	1221-2497512	4	Pin
	4	54.38.619	4	Ring
	5	1221-2407503-A	4	Plate
	6	1221-2407538	16	Satellite gear washer
	7	5x27,8A3	368	Roller
	8	1221-2407539	8	Distance washer
	9	5336-2405035-A	8	Satellite gear
	10	A.8x45 65Г	8	Pin
	11	1221-2407556-A	8	Satellite gear axis
	12	70-4605036	4	Bolt
	13	M12x35	16	Bolt
	14	ШП12	16	Washer
	15	1221-2407131	2	Sleeve
	16	217A	4	Bearing
	17	1221-2407123	2	Bushing
	18	1522-2407122	2	Driven gear
	19	50-4605027	1	Pin
	20	36-3502037-A	2	Bushing
	21	1522-2401016	2	Gasket
	23	1522-4605007	2	Bushing
	24	1522-2401024	1	Cover
	25	ШП16	28	Washer
	26	M16x80	4	Bolt
	27	ШП14	24	Washer
	28	1221-2407505	24	Bolt
	29	ШП20	4	Washer
	30	1522-2401026	1	Cover
	31	ШП8	8	Washer
	32	M8x20	8	Bolt
	33	1522-2401015	1	Housing
	33	1522-2401015	1	Housing
	34	Д01-015	2	Pin
	35	1221-2407082	2	Semi-axle
	36	1523M-2407018-01	1	Right semi-axle tube
	38	70-1701300	1	Magnetic plug

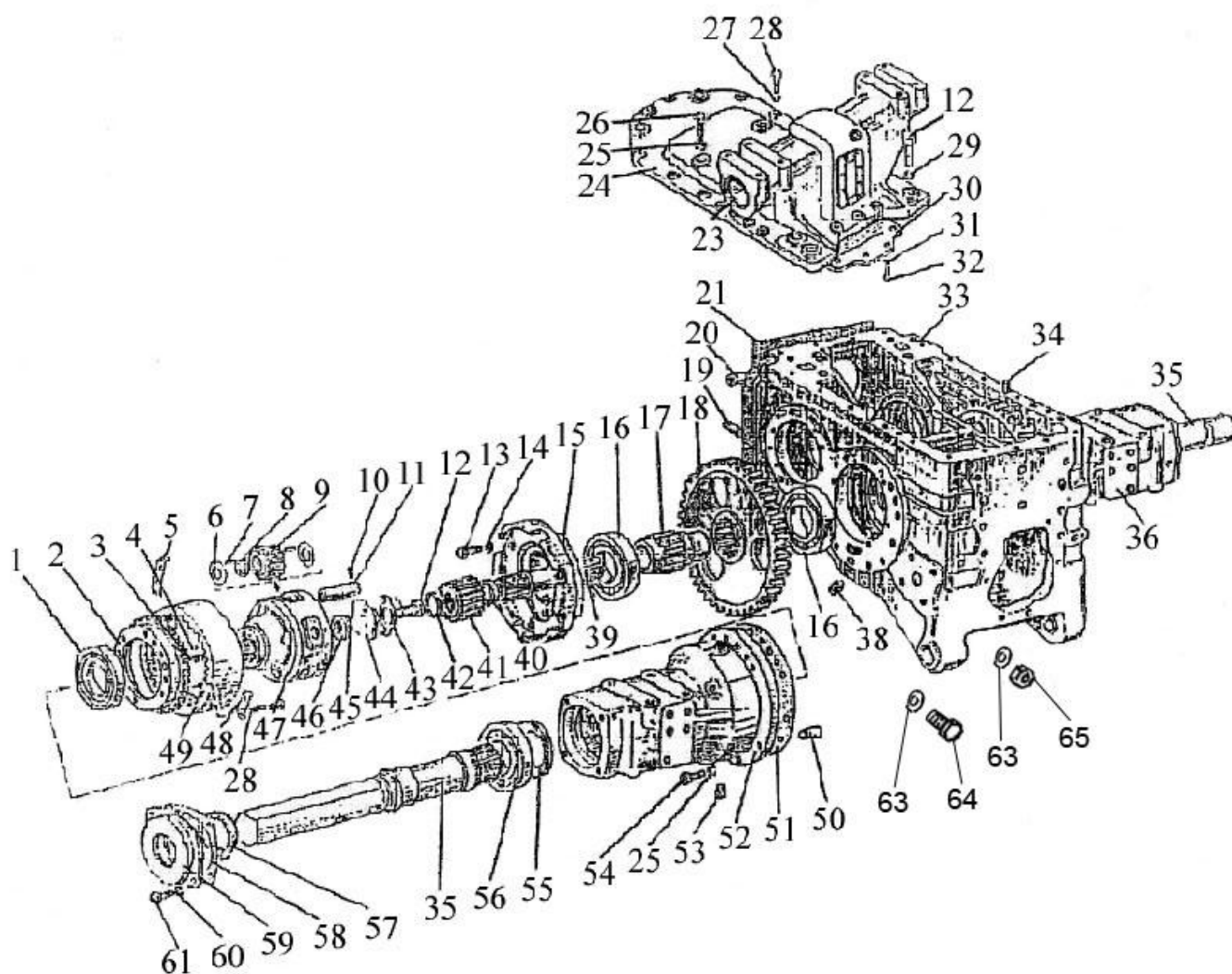


Fig. 24.1 Rear axle housing

Group 24. Rear axle
Subgroup 2401, 2407. Rear axle housing. Final drive

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.1	39	1221-2407541	2	Shaft
	40	1221-2407542	2	Bushing
	41	5336-2405028-A	2	Drive gear
	42	2C55	2	Ring
	43	1221-2407507	2	Washer
	44	1221-2407537	2	Washer
	45	1221-2407506*	2-10	Gasket 0,5 mm
	46	1221-2407506-01*	2-10	Gasket 0,2 mm
	47	1221-2407536-B	2	Pinion cage
	48	1221-2407504	8	Plate
	49	5336-2405050-A	2	Driven gear
	50	1221-2407508-01	4	Pin
	51	1221-2407552	2	Gasket
	52	1523M-2407018	1	Left semi-axle tube
	53	КГ 1/8"	2	Plug
	54	M16x60	24	Bolt
	55	142-2407091	2	Ring
	56	7218A	2	Bearing
	57	2.2-90x120-1	2	Collar
	58	1221-2407089	2	Gasket
	59	1221-2407028	2	Cover
	60	ШП10	8	Washer
	61	M10x25	8	Bolt
	62	2.2-25x45-1	2	Collar
	63	18 OT	6	Washer
	64	1221-24010011-01	3	Bolt
	65	M18-6H.6.019	3	Nut

* Selection

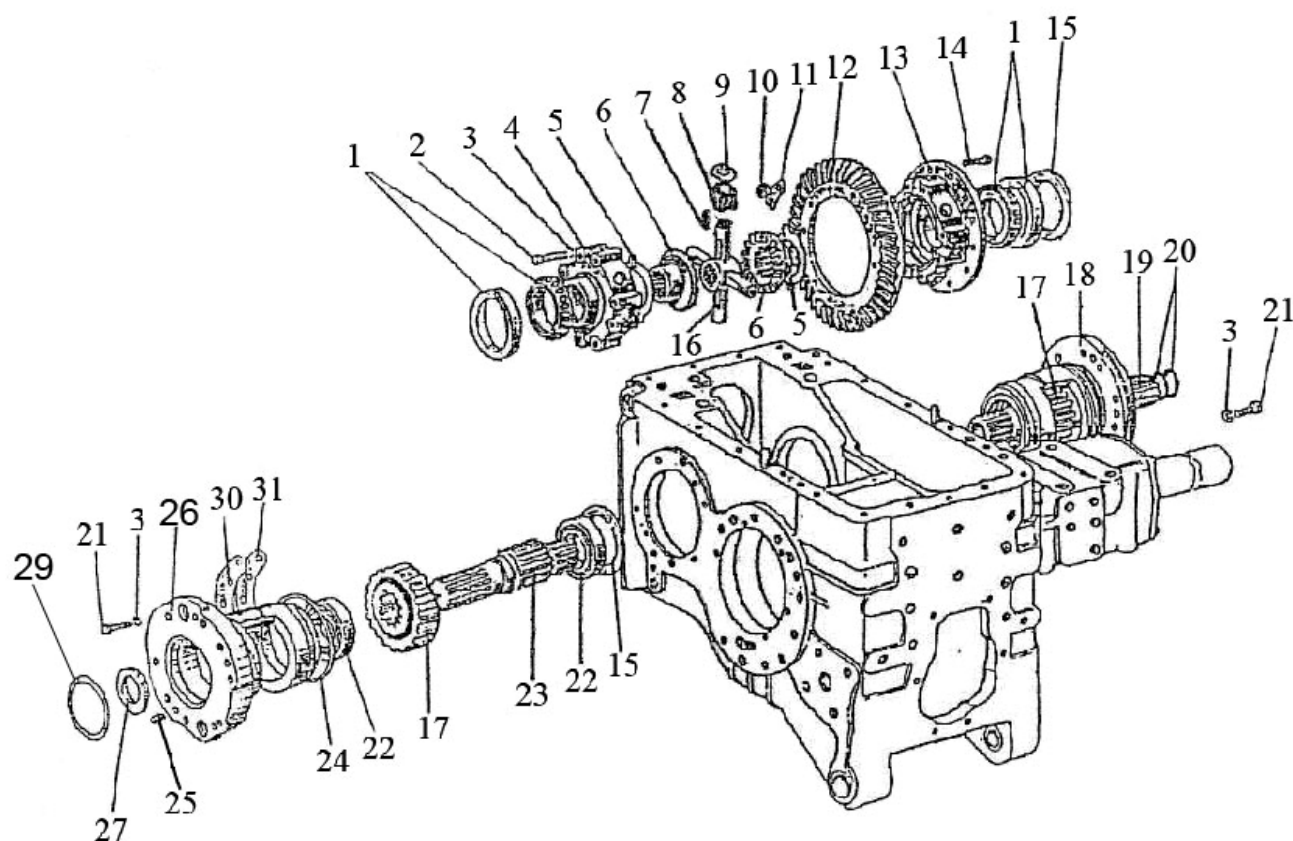


Fig. 24.2 Differential. Bearing carrier.

Group 24. Rear axle
Subgroup 2403, 2407. Differential. Bearing carrier

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.2		1522-2403010-A	1	Differential (1-14, 16)
		1522-2403015-02	1	Differential housing (2, 4, 13)
		1523M-2407060	1	Left sleeve (15, 17, 18, 22-24)
		1523M-2407060-01	1	Right sleeve (15, 17-19, 22, 24)
		1522-2403014	1	Main gear set (Consists of the following parts: 1522-1701252; 50-2403021-B)
		1522-2403014-01	1	Main gear set (Consists of the following parts: 1222-1701252; 50-2403021-B)
	1	7216A	2	Bearing
	2	50-2403034-A	8	Bolt
	3	ШП12	8	Washer
	4	1522-2403019-02	1	Cover
	5	1220-2403049	2	Thrust washer
	6	1522-2403048	2	Semi-axle gear
	7	4x29,8 A3	100	Roller
	8	1522-2403057-B	4	Satellite gear
	9	1522-2403025-B	4	Satellite gear washer
	10	M12	12	Nut
	11	50-2403023	6	Locking plate
	12	50-2403021-B	1	Driven gear
	13	1522-2403018-02	1	Housing
	14	50-1702092	12	Tight-fitting bolt M12x42
	15	1221-2407043	2	Ring
	16	1522-2403062-B	1	Cross bar
	17	1522-2407052	2	Gear
	18	1221M-2407042-01	1	Right bearing carrier
	19	1221M-2407053	1	Shaft
	20	035-040-30-1-4	2	Ring
	21	80M-2407041	14	Bolt
	22	311A (6-311AШ1)	4	Bearing
	23	1221M-2407053-01	1	Shaft
	24	205-210-36-1-4	2	Ring
	25	80M-2407039	4	Pin
	26	1221M-2407042	1	Left bearing carrier
	27	2.2-52x75-1	2	Collar
	29	C125	2	Ring
	30	1221-2407056*	1-8	Gasket 0,5 mm
	31	1221-2407057*	1-20	Gasket 0,2 mm

* Selection

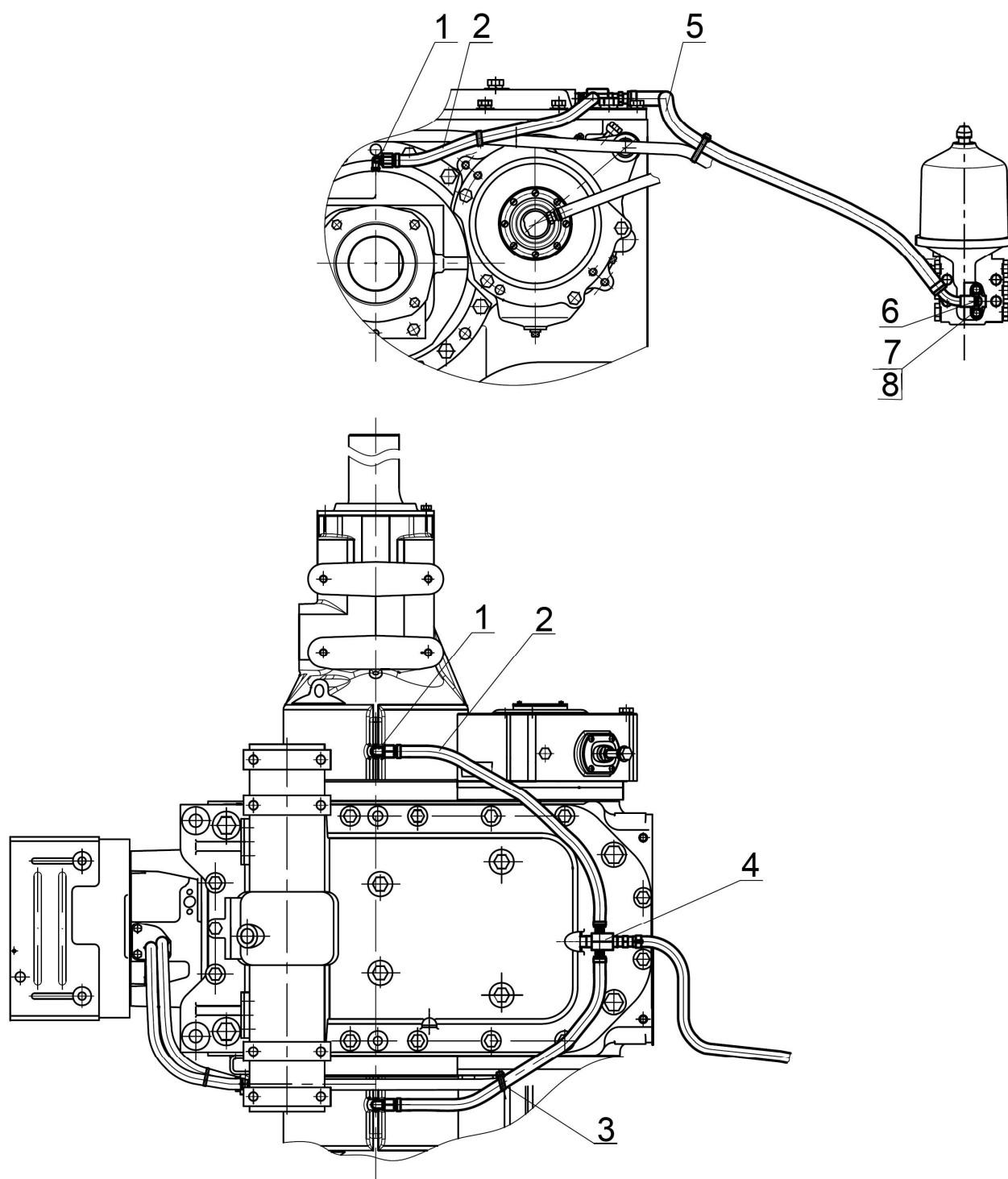


Fig. 24.3 Rear axle lubricating system (variant)

Group 24. Rear axle
Subgroup 2401. Rear axle lubricating system (variant)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.3	1	822-3503037	2	Threaded elbow
	2	1525-2401510	2	Oil pipeline
	3	80-3723045-01	3	Collar
	4	2022-2401513	1	Adapter
	5	2022-2401520	1	Oil pipeline
	6	017-022-30-1-4	1	Ring GOST18829-73/GOST98373
	7		2	Bolt M8x30 GOST 7796-70
	8		2	Washer 8T OST 37.001.115-75

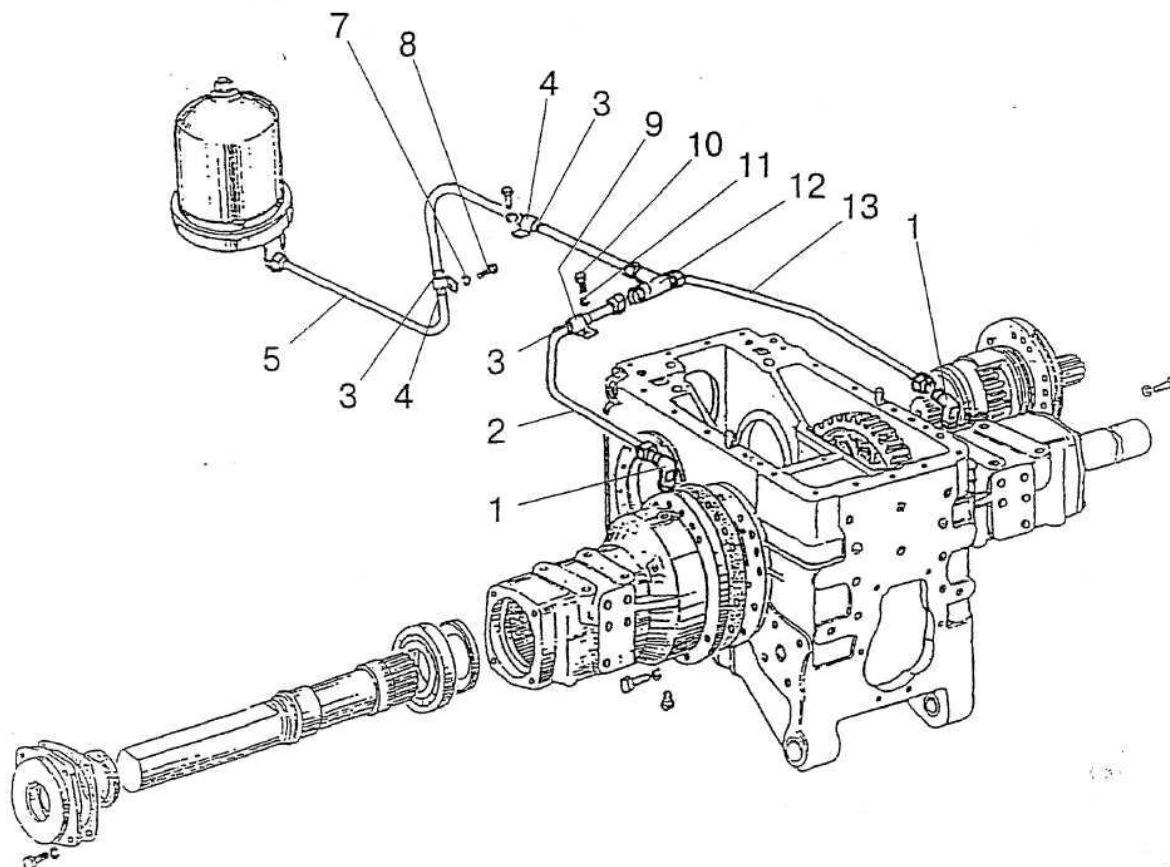


Fig. 24.4 Rear axle lubricating system (variant)

Group 24. Rear axle
Subgroup 2401. Rear axle lubricating system (variant)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.4	1	86-1802088	2	Elbow
	2	1522-2407330	1	Oil pipeline
	3	1522-2407317	3	Pipe
	4	70-4802046	2	Clamp
	5	1522-2407310	1	Oil pipeline
	7	ШП 10	1	Washer
	8	M10x20	1	Bolt
	9	70-4802043	1	Clinch rivet
	10	M12x25	1	Bolt
	11	ШП 12	1	Washer
	12	1221-2407288-02	1	Three-way pipe
	13	1522-2407320	1	Oil pipeline

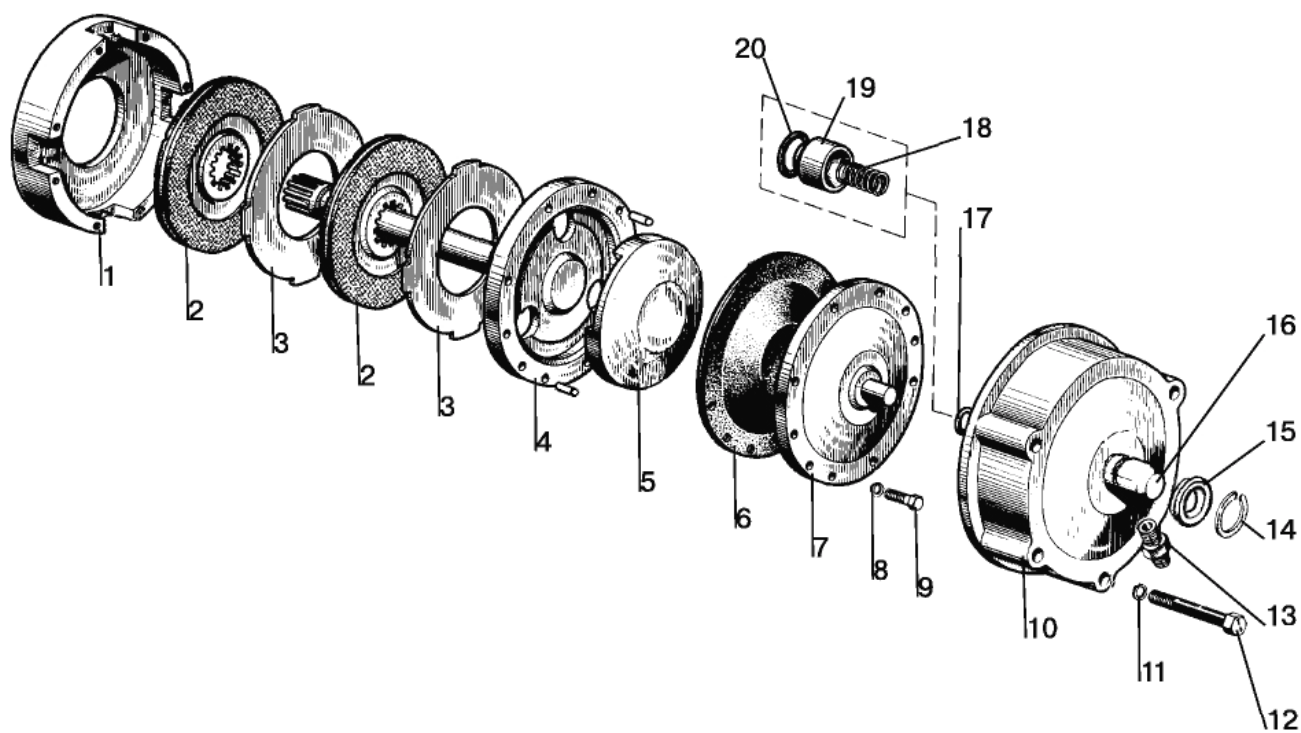


Fig. 24.5 Differential locking mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.5		70-2409010-B-01	1	Lockup coupling (1-9)
		82P-2409050-02	1	Adapter (10, 13-20)
	1	70-2409015-A	1	Coupling housing
	2	70-3502040-01 or 70-3502040-04	2	Disk
	3	70-2409028	2	Release disk
	4	70-2409020-01	1	Lock shaft
	5	70-2409018	1	Pressure disk
	6	70-2409021	1	Diaphragm
	7	70-2409030-B	1	Diaphragm cover
	8		8	Washer 8T OST 37.001.115-75
	9		8	Bolt M8-6gx40.88.35.019 GOST 7795-70
	10	70-2409035-A6	1	Housing
	11		5	Washer 12 OT OST 37.001.115-75
	12	1522-2409034	5	Bolt
	13	85-3407470	1	Union body
	14		1	Ring C40 GOST 13940-86
	15	82P-2409036A	1	Seal
	16	70-2409026-B	1	Adapter
	17	020-025-30-1-4	1	O-ring
	18	54-06-448-A	1	Spring
	19	70-2409027-A	1	Bushing
	20	70-2409033-B	1	Ring

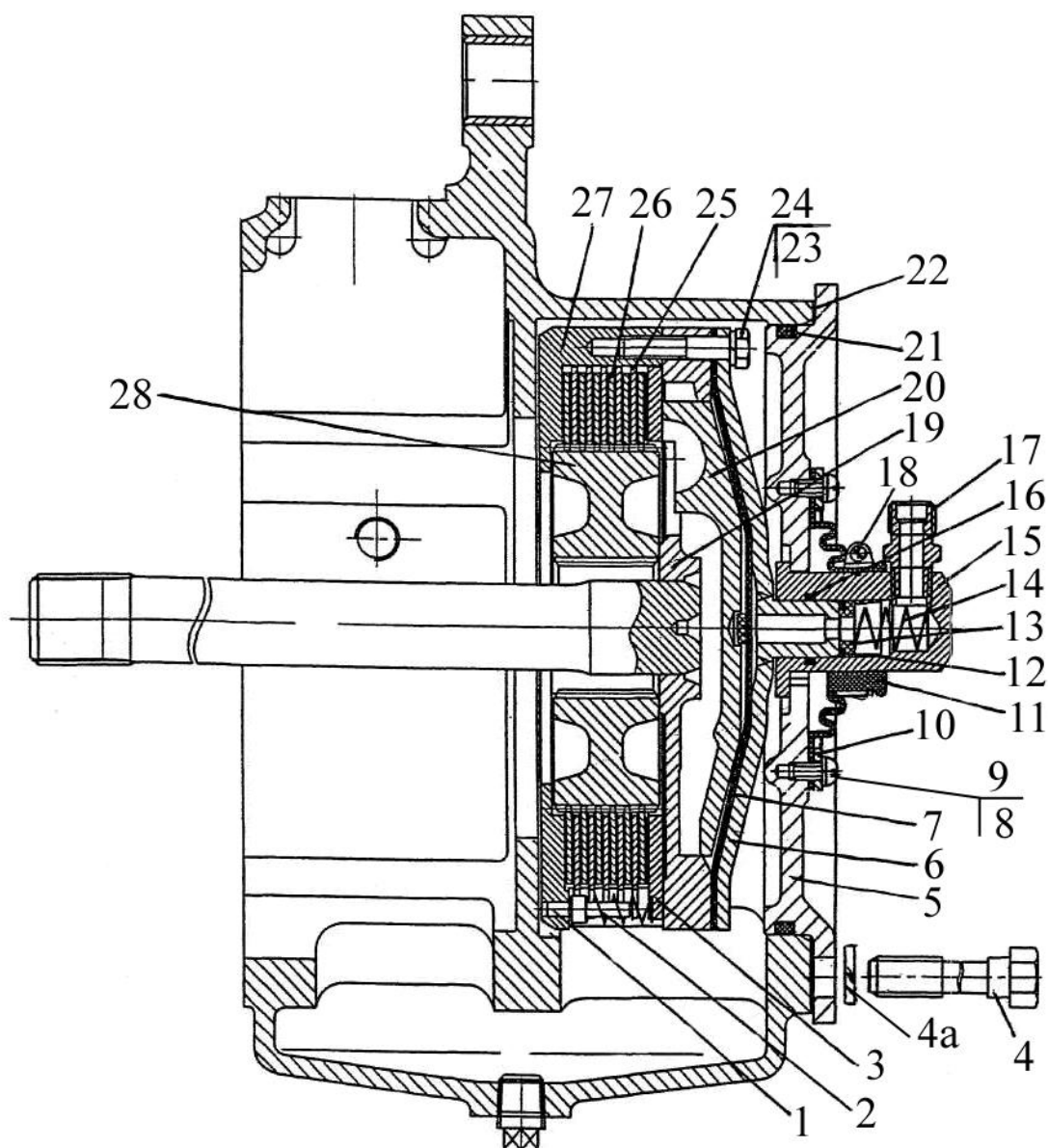


Fig. 24.6 Differential locking mechanism of wet type

Group 24. Rear axle
Subgroup 2409. Differential locking mechanism of wet type

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.6		80M-2409010	1	Lockup coupling (1-3,6,7,19,20,23-28)
		1221M-2409050-01	1	Adapter (5,8-18,21)
	1	80M-2409002	4	Pin
	2	50-1702148-A	4	Spring
	3	80M-2409028	1	Release disk (S=4,7mm)
		80M-2409028-01*	*	Release disk (S=4,4mm)
		80M-2409028-02*	*	Release disk (S=4,1 mm)
		80M-2409028-03*	*	Release disk (S=3,8mm)
		80M-2409028-04*	*	Release disk (S=3,5mm)
		80M-2409028-05*	*	Release disk (S=3,2mm)
		80M-2409028-06*	*	Release disk (S=3,0mm)
	4	1221M-3502039	5	Bolt
	4a	ШП14	5	Washer
	5	1221M-2409034-01	1	Cover
	6	70-2409030-B	1	Diaphragm cover
	7	70-2409021	1	Diaphragm
	8	B.M6x10	8	Screw
	9	ШП 6	8	Washer
	10	80M-2409037	1	Ring
	11	80M-2409036	1	Seal
	12	70-2409033-B	1	Ring
	13	70-2409027-A	1	Bushing
	14	54-06-448-A	1	Spring
	15	70-2409026-B	1	Adapter
	16	020-025-30-1-4	1	Ring
	17	85-3407470	1	Union body
	18	32-50/9C6W	1	Clamp «NORMA»
	19	70-2409020-02	1	Lock shaft
	20	80M-2409018	1	Pressure disk
	21		1	Ring 205-215-58-2-2 GOST 18829-73/GOST 9833-73
	22	1221M-2409051	1	Gasket
	23	M8x40	8	Bolt
	24	ШП8	8	Washer
	25	80M-2409016	5	Intermediate disk
	26	2522-1802035-A	6	Drive disk
	27	80M-2409015	1	Coupling housing
	28	80M-2409001	1	Hub

* Selection

129

Group 27. Drawbar hitch
Subgroup 2707. Drawbar hitch

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
27.1		2022-2707060		Bracket (4,14,33,53,5,10)
		1322-2707160		Python (40,41,42,43,46,39,2,5,10)
		1321-2707050-B		Yoke (19,20,21,22,23,24,26-32)
		2022-2707150		Rod (35,36,37,38,47,48,49,50,51,52)
	1	1322-2707130	1	Cross bar
	2	1322-2707133	4	Bolt
	3	1322-2707120-B	1	Joke
	4	2022-2707062	1	Guide
	5	M20x1,5	4	Nut
	6	M10x20	2	Bolt
	7	ШП 10	2	Washer
	8	1522-2707126	1	Plate
	9	1522-2707127	1	Axis
	10	ШП 20	40	Washer
	11	1522-2707020-B	1	Plate
	12	1321-2707014	4	Bolt
	13	1222-2707137	2	Plate
	14	1522-2707061-B	1	Bracket
	15	70-4605036	12	Bolt
	17	A61.05.004	2	Ring
	18	A61.05.005	2	Chock
	19	680-2707024	12	Bolt
	20	1321-2707070-B	1	Plate (left)
	21	M16	6	Nut
	22	ШП 16	4	Washer
	23	1321-2707070-01	1	Plate (right)
	24	1522-2707244	1	Stabilizer
	25	1321-2707030	2	Pin
	26	6,3x63	1	Forelock
	27	1522-2707243	1	Nut
	28	1522-2707242	1	Washer
	29	1321-2707051-B	1	Bracket
	31	1321-2707052	1	Yoke
	32	1321-2707042	2	Forelock
	33	2022-2707062-01	1	Guide
	34	1522-2707135	2	Plate
		1522-2707135-01	2	Plate
		1522-2707135-02	2	Plate
	35	1522-2707079-A	1	Kingpin
	36	70-4235035	2	Chain
	37	1523-2707145	1	Lining
	38	2022-2707144	1	Rod
	39	A.61.07.001	1	Forelock
	40	1322-2707165	1	Plate with python
	41	1322-2707162-01	1	Pin

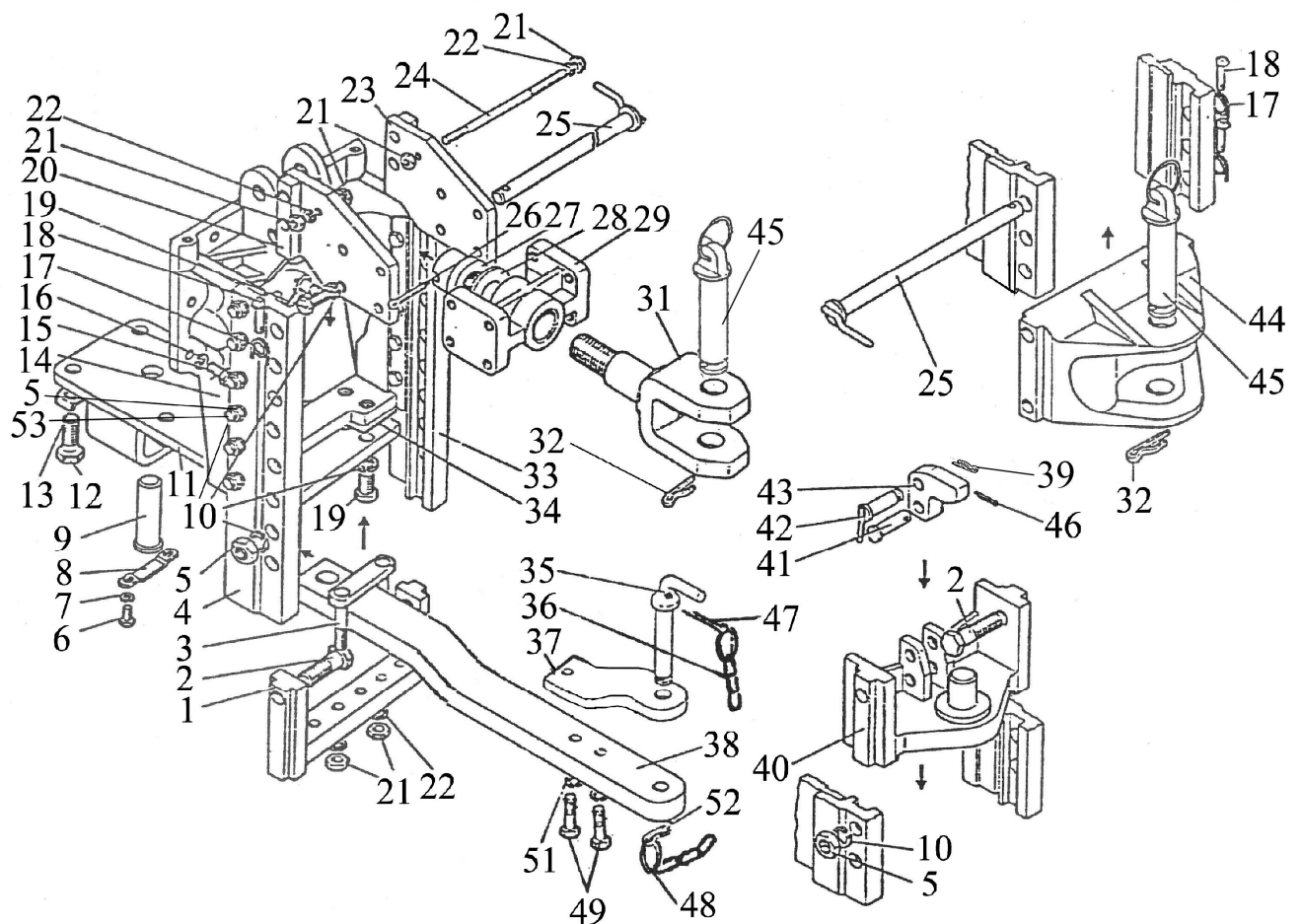


Fig. 27.1 Drawbar hitch.

Group 27. Drawbar hitch
Subgroup 2707. Drawbar hitch

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
27.1	42	1322-2707180	1	Pin
	43	1322-2707161	1	Thrust
	44	1321-2707111-A or 1321-2707113-A (EURO)	1	Yoke
	45	1321-2707140-B	2	Kingpin
	46	4x36	1	Forelock
	47	3,2x25	1	Forelock
	48	H50-4202146	1	Ring
	49	1523-2707149	2	Bolt
	51	1523-2707146	2	Washer
	52	A61.07.001-A	1	Forelock
	53	1522-2707149-01	12	Bolt

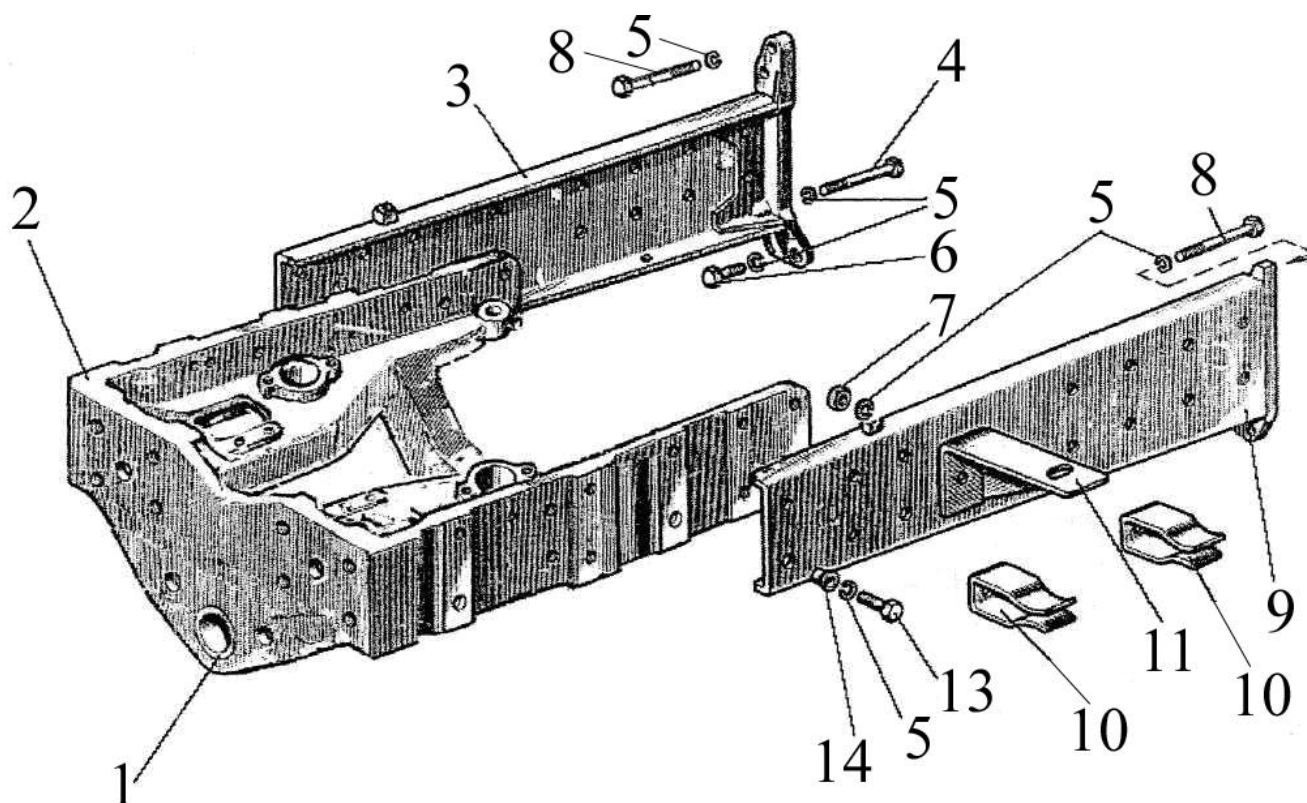


Fig. 28.1 Semi-frame

Group 28. Frame
Subgroup 2801. Semi-frame

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
28.1	1	40-3001022	2	Bushing
	2	1520-2801016	1	Front beam
	3	1523-2801030	1	Right spar
	4	70-2800016	4	Bolt
	5	ШП16	6	Washer
	6	M16x60	4	Bolt
	7	M16	2	Nut
	8	M16x70	2	Bolt
	9	1523-2801020	1	Left spar
	10	50-3913214	2	Clamp
	11	80-3919106	2	Bracket
	13	МІ 6x50	4	Bolt
	14	50-2800011	4	Bushing

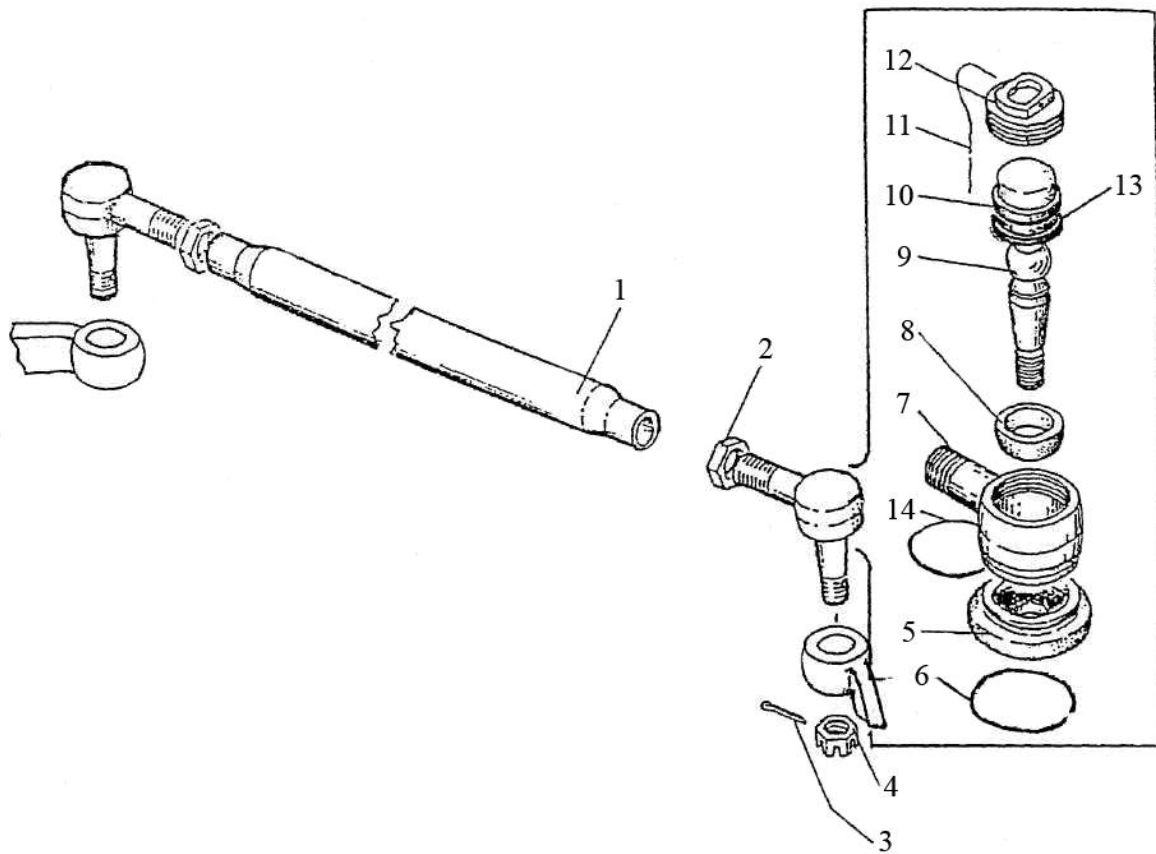


Fig. 30.1 Steering link

Group 30. Front axis
Subgroup 3003. Steering link

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
30.1		1220-3003010-01	1	Rod assembly (1,2,4-14)
		1220-3003020-A	1	Hinge with right-handed thread (5-14)
		1220-3003020-A-01	1	Hinge with left-handed thread (5-14)
	1	1220-3003011	1	Pipe
	2	1220-3003013	1	Lock nut with right-handed thread
		1220-3003013-01	1	Lock nut with left-handed thread
	3	4x36	2	Forelock
	4	M20x1,5	2	Nut GOST 5919-73
	5	1220-3003025-A	2	Case
	6	1220-3003029	2	Ring
	7	1220-3003022	1	Housing of the hinge with right-handed thread
		1220-3003022-01	1	Housing of the hinge with left-handed thread
	8	1220-3003023	2	Upper insert
	9	1220-3003021	2	Ball pin
	10	1220-3003028	2	Lower insert
	11	2,0-0-C	2	Wire L=270 mm
	12	50-3003018-B	2	Plug
	13	1220-3003027	2	Insert
	14	1220-3003024	2	Ring

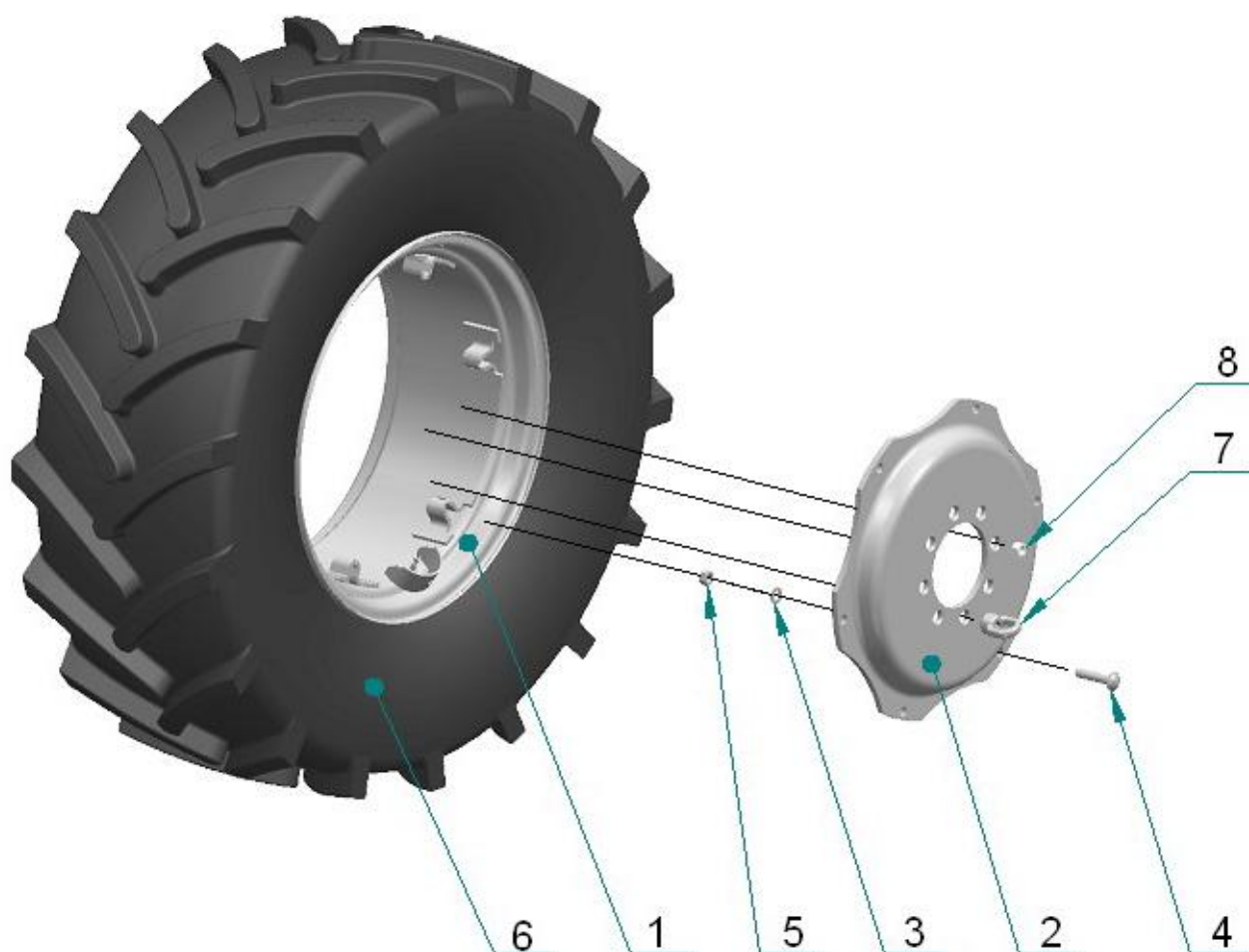


Fig. 31.1 Front driving wheels

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
31.1		1221-3101010-01	2	Wheel (tyre 420/70R24 assembly) (1-6)
		W12-24-3101020-01 or 880.3101012-01	2	Wheel W12x24 (1,2,3,4,5)
	1	W12-24-3101035	2	Rim W12x24 with brackets
	2	W12-24-3101017	2	Disk
	3	52-2301065	12	Washer
	4	1221-3101011	12	Bolt
	5	1221-3101013	12	Nut or Nut M16x1.5-6H.10.019 GOST 5915-70
	6		2	Tyre 420/70R24
	7	70-3104019-01	2	Special nut
	8	40-3103017	14	Wheel disk retaining nut

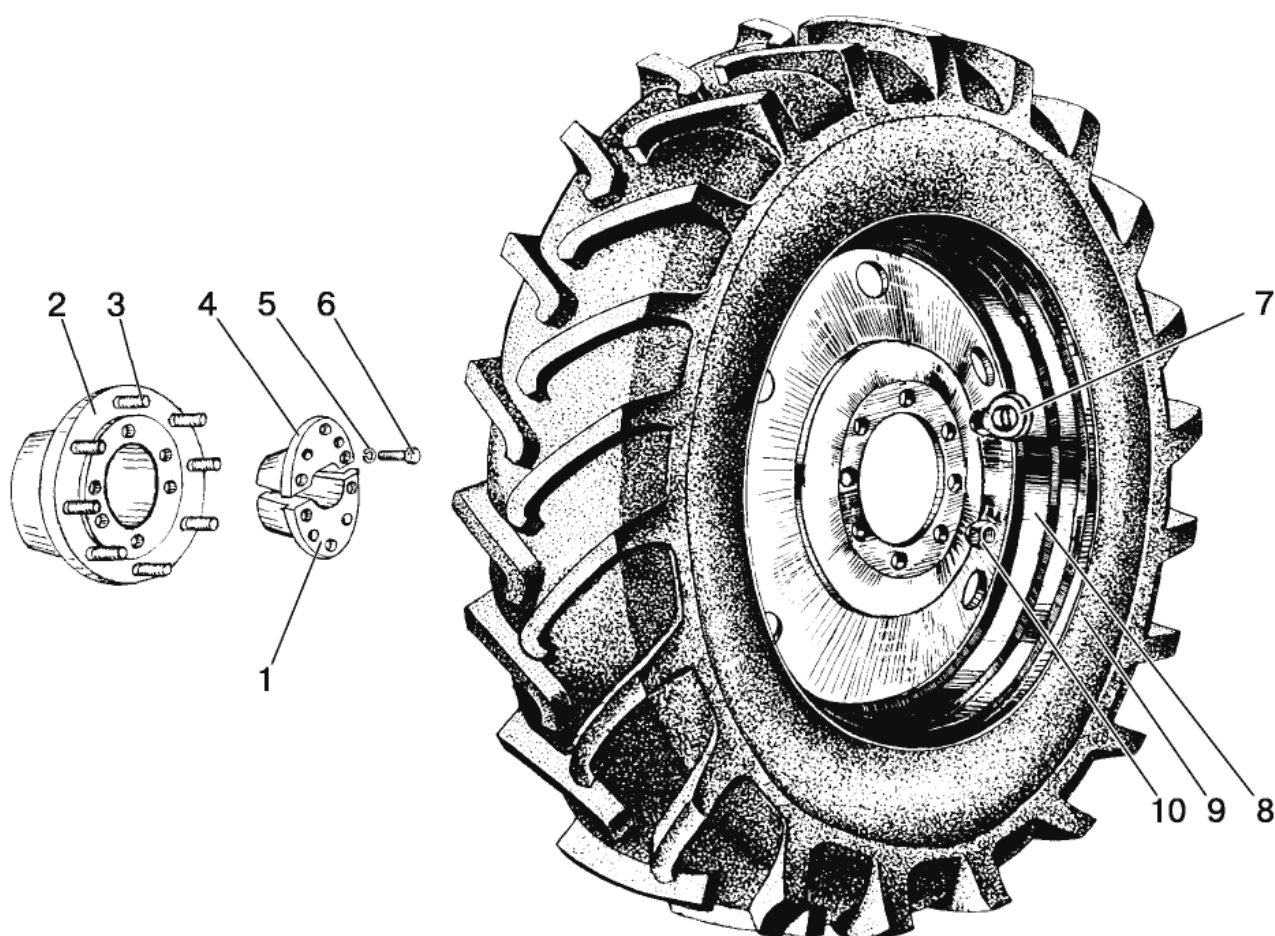


Fig. 31.2 Rear driving wheels

Group 31. Wheels and hubs
Subgroup 3107. Rear driving wheels

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
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		6	Washer ШП 20
	6	70-4605036	6	Bolt
	7	70-3104019	2	Special nut
		1522-3107010	2	Wheel 520/70R38 (tyre 8,9 assembly)
	8	886.3107012 or DW 15Lx38-3107020 or 8746.3107012П3	2	Wheel DW16Lx38 Wheel DW15Lx38 Wheel DW15Lx38
	9		2	Tyre 520/70R38
		1221-3107010*	2	Wheel 18,4R38 (tyre 8,9 assembly)
	8	DW 15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38
	9		2	Tyre 18,4R38*
	10	36-3104019	16	Nut

* upon request (optional configuration)

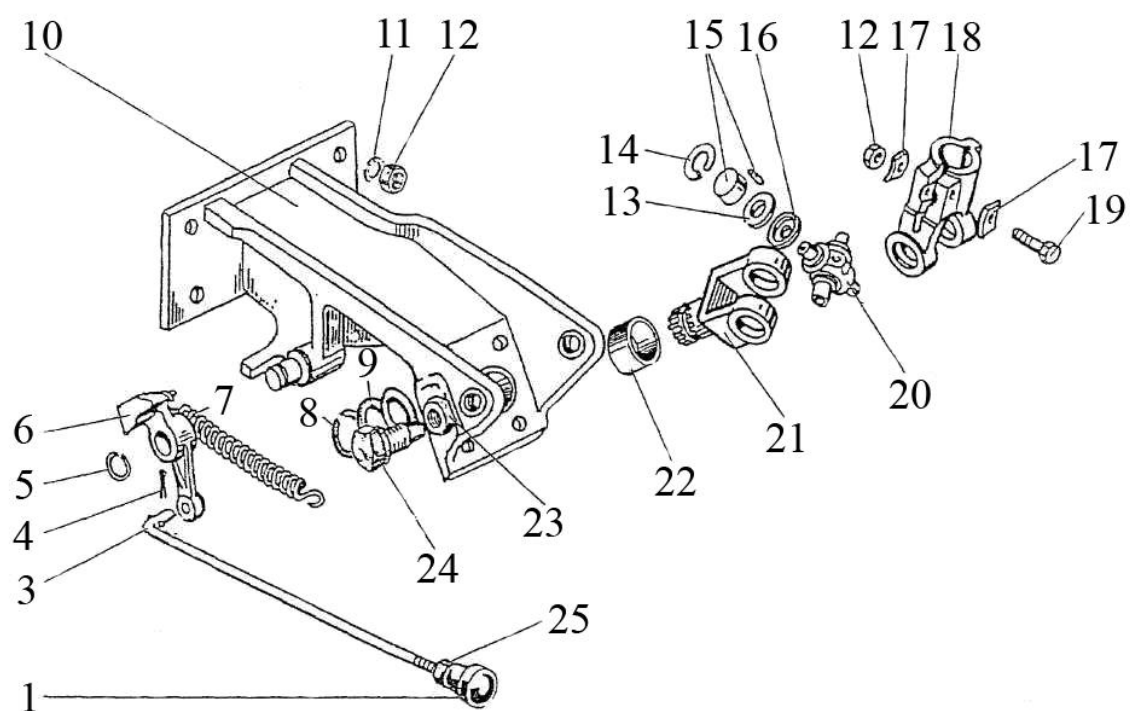


Fig. 34.1 Steering column

Group 34. Steering control
Subgroup 3401. Steering column

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.1	1	70-4803060	1	Handle
	3	822-3401001	1	Rod
	4	2,0x12	1	Forelock
	5	C18	1	Ring
	6	85-3401014-01	1	Detent
	7	50-1310158-B	1	Spring
	8	C20	1	Ring
	9	80-3401019	1	Washer
	10	822-3401120	1	Bracket
	11	ШП 10	4	Washer
	12	M10	4	Nut GOST 5915-70
	13	50-3401064	4	Oil-seal
	14	C19	4	Ring
	15	904700YC17	4	Bearing
	16	50-3401063	4	Cage
	17	80-3401013	2	Washer
	18	50-3401061-A	1	Yoke
	19	M10x45	1	Bolt GOST 7795-70
	20	50-3401062	1	Cross bar
	21	85-3401156-B	1	Yoke
	22	85-3401016	1	Bushing
	23	M20x1,5	2	Nut GOST 15522-70
	24	80-3401089	2	Screw
	25	M8	1	Nut GOST 5915-70

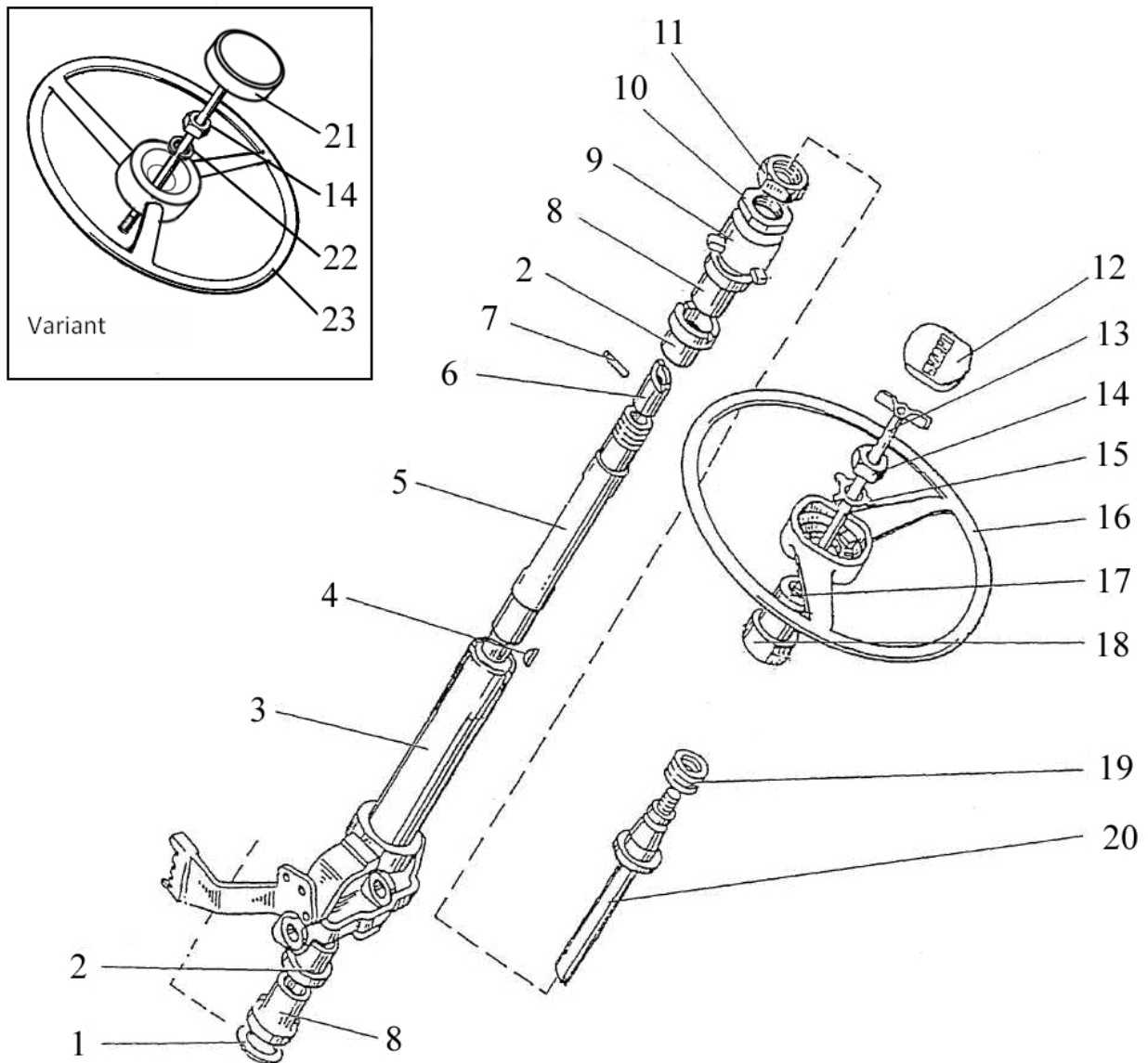


Fig. 34.2 Steering column

Group 34. Steering control
Subgroup 3401. Steering column

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.2	1	600-3401012	1	Washer
	2	70-3401077-B	2	Shock absorber
	3	822-3401080	1	Pipe
	4	5x10	1	Key
	5	70-3401055	1	Intermediate shaft
	6	70-3401054-B	1	Shaft end extension
	7	ШЦК 8x36	1	Pin
	8	70-3401076	2	Bushing
	9	80-3709022	1	Baffle plate
	10	70-3401078	1	Nut
	11	70-3401079	1	Lock nut
	12	80-3401082	1	Cover
	13	80-3401140	1	Clamp
	14	M16x1,5	1	Nut GOST 5915-70
	15	50-3401091	1	Washer
	16	80-3402015	1	Steering wheel
	17	80-3709025	1	Inner bushing
	18	80-3709026-B	1	Center bushing
	19	50-4608057	1	Spring
	20	85-3401175	1	Shaft
	21	822-3401140-A1	1	Clamp
	22	ШП 16	1	Washer
	23	70-3402015-A	1	Steering wheel

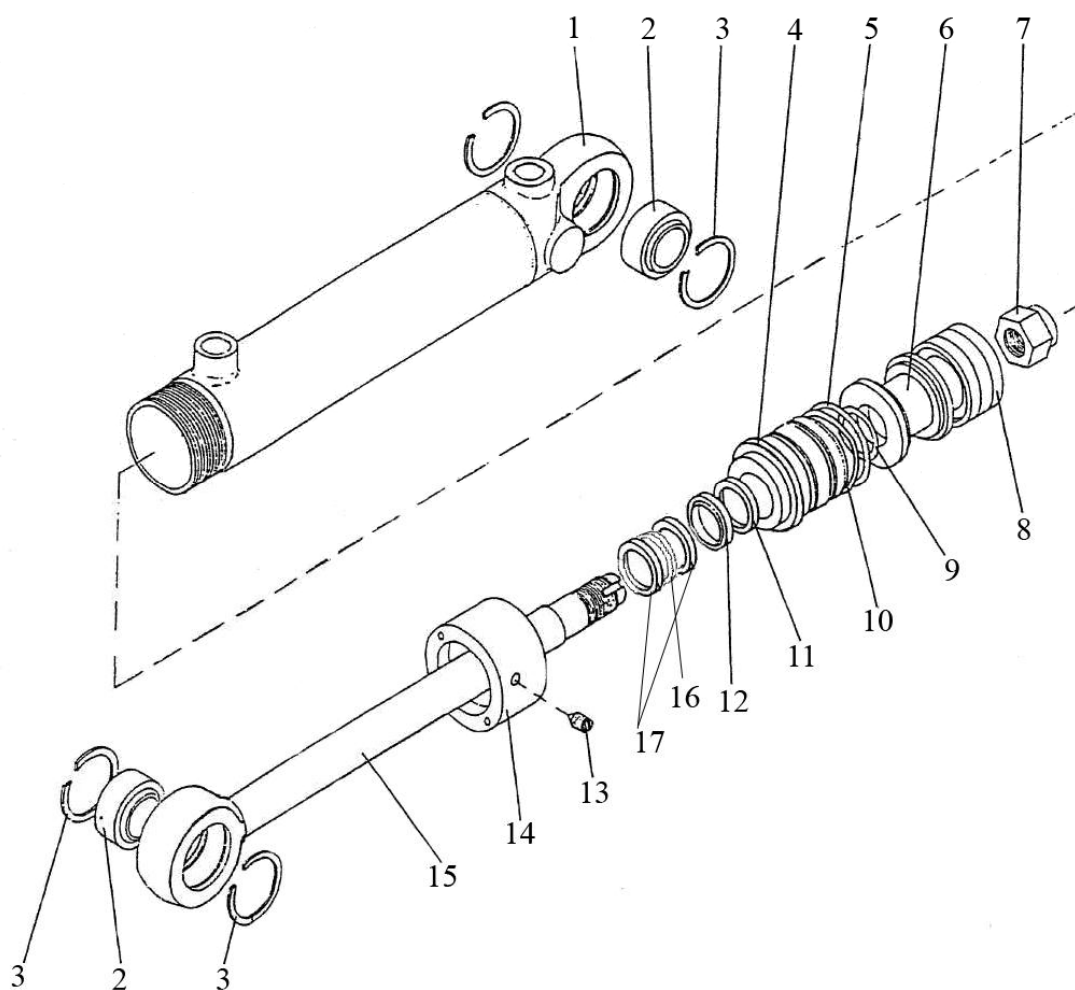


Fig. 34.3 Hydraulic cylinder 50x25-200

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.3		Л50-3405215-A	1	Hydraulic cylinder 50x25-200 (2-16)
	1	Л50-3405220	1	Cylinder housing
	2	ШС-25	2	Bearing
	3	C42	4	Ring
	4	Л50-3405218-Б	1	Front cover
	5	045-050-30-1-4	2	Ring
	6	Л50-3405223-Б	1	Piston
	7	Л50-3405222	1	Piston nut
	8	24 251797 L43 50-34 -20,5*	1	Piston seal
	9	025-028-19-1-4	1	Ring
	10	Л50-3405228	1	Backing ring
	11	24 223269 T20 25-33-5,7*	1	Push rod seal
	12	24 004792 PU6 25-33,6-6,5*	1	Push rod collar
	13	A.M8x10	1	Screw
	4	Л50-3405224	1	Captive nut
	15	Л50-3405221-Б	1	Push rod
	16	24 223123 OMS-MR 25-32,3-3*	1	Push rod seal
	17	24 226044 SB 25-28-5,5*	2	Push rod guide

* Sealing elements produced by Freudenberg Company (Germany)

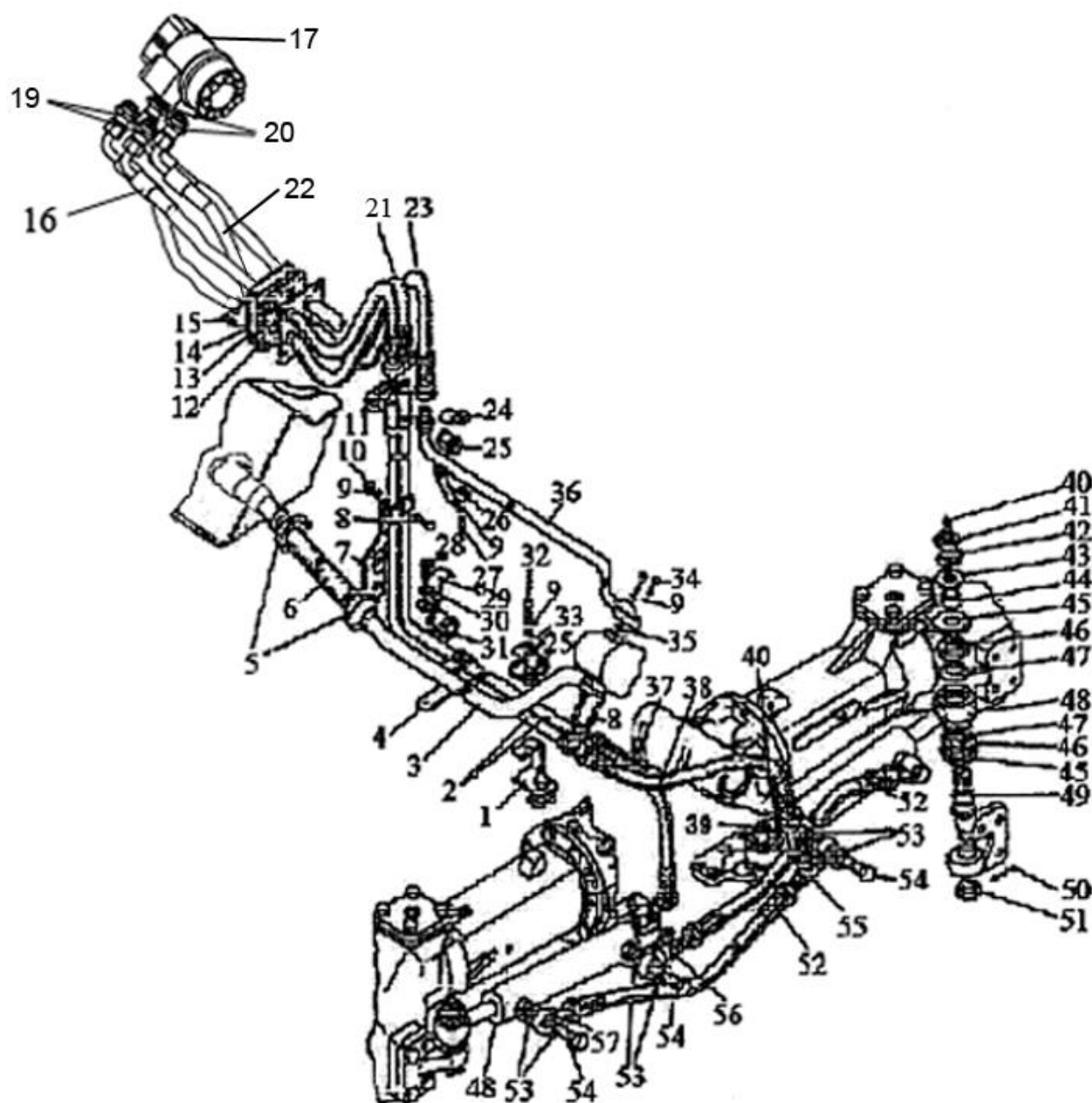


Fig. 34.4 Hydrostatic steering control

Group 34 Steering control
Subgroup 3400. Hydrostatic steering control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.4	1	1522-3407017	1	Bracket
	2	1522-3407050-B	2	Oil pipeline
	3	1221-3407030	1	Oil pipeline
	4	85-3407107	1	Plate
	5	25-40	2	Clamp with worm thread
	6	1321-3407018-01	1	Hose
	7	80B-3407012	1	Bracket
	8	M8x45	3	Bolt
	9	ШП8	9	Washer
	10	M8	2	Nut
	11	H.036.12.010	2	Blind plug
	12	2522-6703034	1	Gasket
	13	1522-3407011	1	Cover
	14	ШП 6	4	Washer
	15	M6x25	4	Bolt
	16	680-4607140-11	1	High pressure hose Ø10x1
	17	OSPC 160 ON 150G0030	1	Dosing pump
	18	PM 1/2	3	Washer
	19	025-029-25-2-2	4	Ring
	20	1522-3407016	4	Union body
	21	680-4607140-06	1	High pressure hose
	22	1522B-3407100-03		
	23	1522B-3407100-02	1	High pressure hose
	24	70-3407163	1	Joke
	25	70-3506027	7	Bushing
	26	70-3407164	1	Bracket
	27	M8x20	1	Bolt
	28	M10x25	1	Bolt
	29	102-3407014	1	Joke
	30	ШП10	1	Washer
	31	70-4607158	3	Gasket
	32	M8x30	3	Bolt
	33	70-3407146	4	Plate
	34	M8x35	2	Bolt
	35	017-022-30-1-4	2	Ring
	36	1522-3407020	1	Oil pipeline
	37	952-3407100-04	1	High pressure hose
	38	952-3407100-02	1	High pressure hose
	39	Φ80-3405112	2	Union body
	40	1.1	4	Oiler

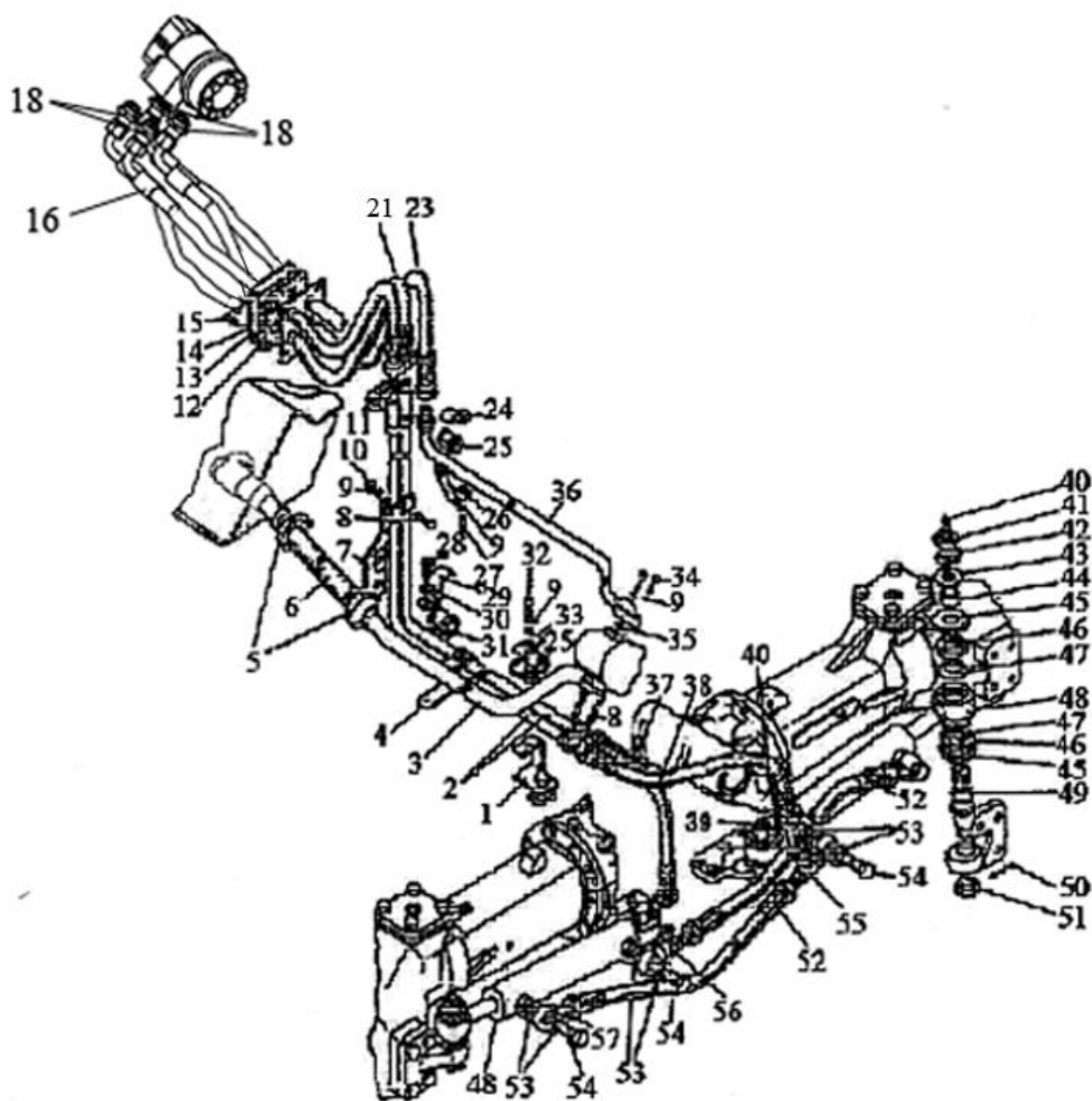
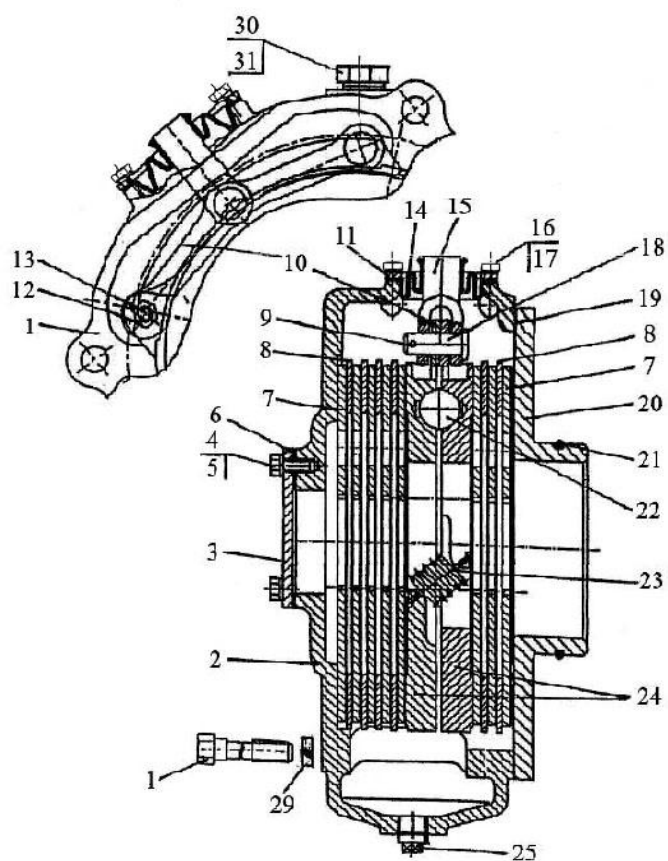


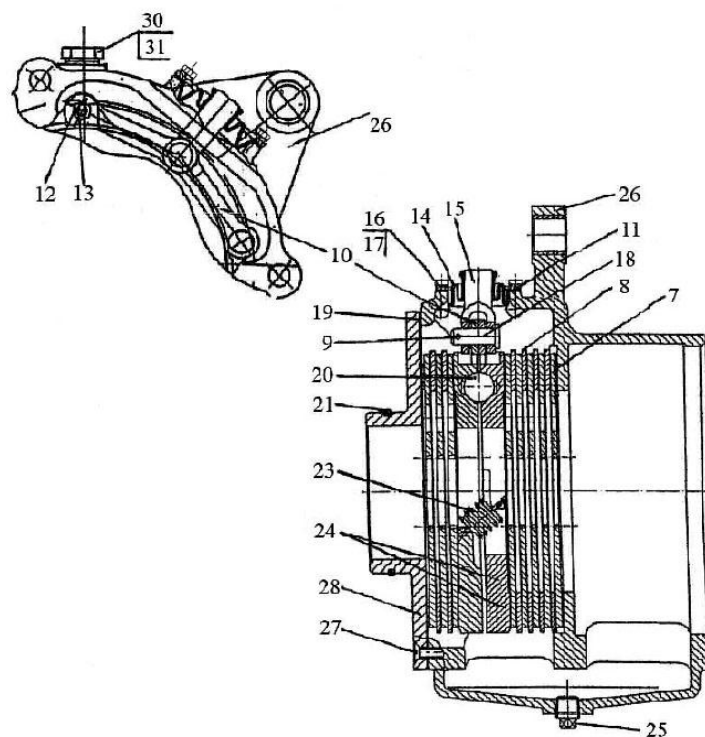
Fig. 34.4 Hydrostatic steering control

Group 34 Steering control
Subgroup 3400. Hydrostatic steering control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.4	41	M20x1,5	4	Nut
	42	Φ80-3405103	4	Lock washer
	43	ШЧ20	4	Washer
	44	Φ80-3405102-B	4	Bushing
	45	Φ80-3405108	8	Seal cup
	46	Φ80-3405109	8	Hinge seal
	47	Φ80-3405107	8	Spherical bushing
	48	Ц50-3405215-A	2	Hydraulic cylinder
	49	102-3405103	4	Pin
	50	4x36	4	Forelock
	51	70-4605316	4	Nut
	52	952-3407100-12	2	High pressure hose
	53	Φ80-3407114	8	Washer
	54	Φ80-3407201	4	Bolt
	55	1221-3407010-Б-01	1	Three-way pipe
	56	1221-3407010-Б	1	Three-way pipe
	57	952-3407020	2	Adapter



Left brake



Right brake

Fig. 35.1 Wet brakes

Group 35. Brakes
Subgroup 3506. Wet brakes

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.1		1522M-3502010		Brake (left)
		1221M-3502020-03		Brake (right)
		85-3502030-01	2	Pressure disks (9, 10,12,13, 15, 18, 22-24)
	1	1221M-3502039-03	3	Bolt
		1221M-3502039-02	2	Bolt
	2	1522M-3502035	1	Housing
	3	70-4608019	1	Cover
	4	M8x14	4	Bolt
	5	ШП8	4	Washer
	6	70-4608033	1	Gasket
	7	1522-3502015-07	16	Disk
	8	80M-3502037	12	Intermediate disk (S=3,0 mm)
		80M-3502037-01*	*	Intermediate disk (S=3,2 mm)
		80M-3502037-02*	*	Intermediate disk (S=3,4 mm)
		80M-3502037-03*	*	Intermediate disk (S=3,6 mm)
		80M-3502037-04*	*	Intermediate disk (S=3,8 mm)
		80M-3502037-05*	*	Intermediate disk (S=4,0 mm)
		80M-3502037-06*	*	Intermediate disk (S=4,2 mm)
		80M-3502037-07*	*	Intermediate disk (S=4,4 mm)
	9	3,2x18	2	Forelock
	10	85-3502196	4	Rod
	11	80M-3502204	2	Plate
	12	M8	4	Nut
	13	50-3502198	4	Pin
	14	80M-3502202	2	Case
	15	50-3502203	2	Yoke
	16	M6x12	8	Bolt
	17	ШП 6	8	Washer
	18	12x32	2	Pin
	19	1221M-3502051	2	Gasket
	20	1221M-2407059	1	Sleeve cover
	21	115-120-30-2-2	2	Ring
	22	22,225	10	Ball
	23	77.38.163	6	Spring
	24	85-3502036-01	4	Pressure disk
	25	ПК КГ 3/8"	4	Plug
	26	1221M-3502035-01	1	Housing
	27	B.M8X25	6	Screw
	28	1221M-2407059-01	1	Sleeve cover
	29	ШП14	5	Washer
	30	1221-1802091	2	Thread plug
	31	Д18-055-A	2	O-ring

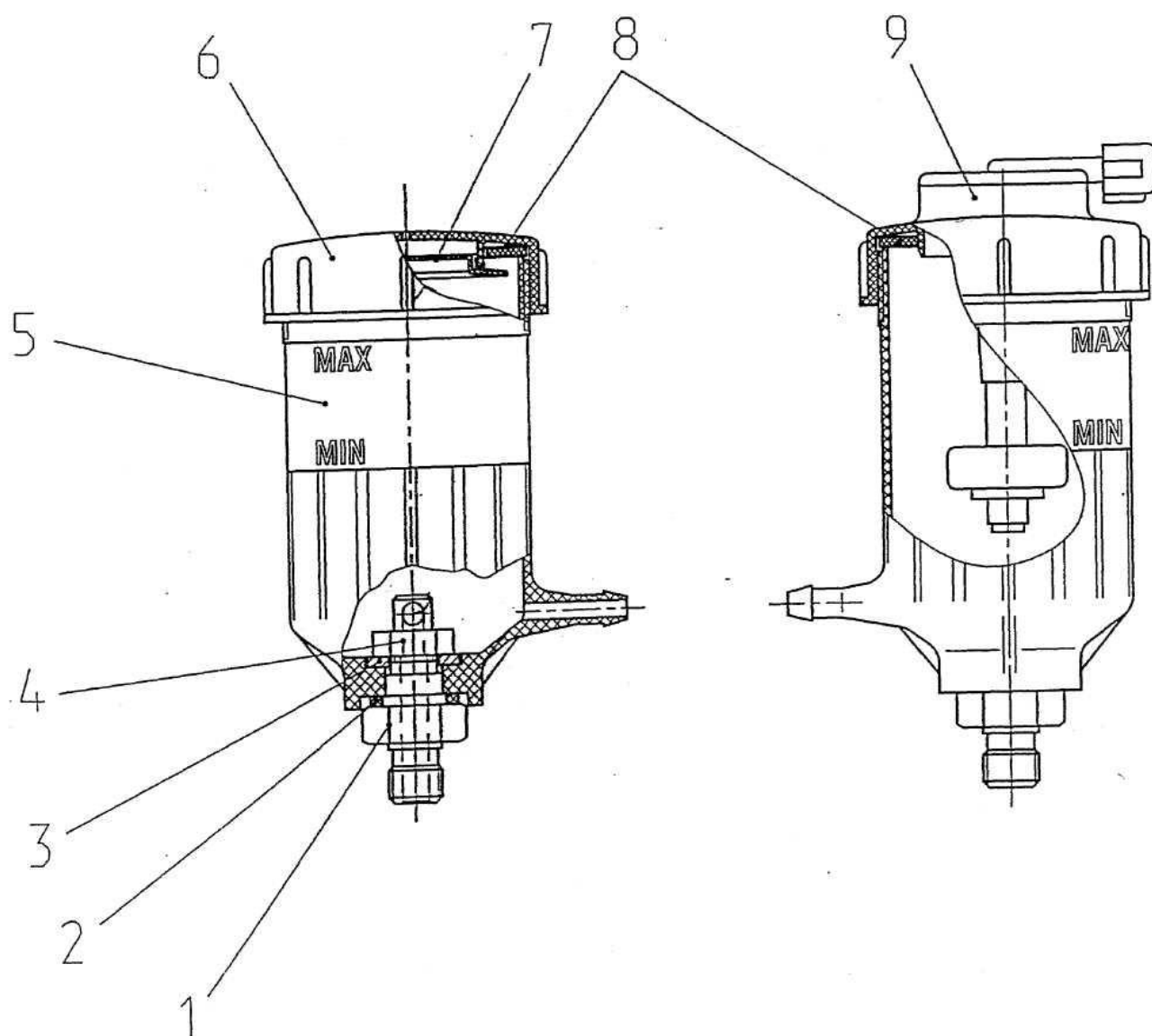


Fig. 35.2 Brake fluid tanks

Group 35. Brakes
Subgroup 3503. Brakes control. Brake fluid tanks

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.2		822-3503090	1	Tank (1-8)
		822-3503090-01	1	Tank (1-5,8,9)
	1	822-1602126	2	Union body
	2	822-1602127	2	Ring
	3	C 12.01.08KП.019	2	Washer GOST 11371-78
	4	M12x1,25-6H.04.019	2	Nut GOST 5916-70
	5	822-3503092	2	Housing
	6	822-1602125	1	Cover
	7	822-1602123	1	Disk
	8	822-1602124	2	Gasket
	9	AP23.3839	1	Level sensor TU .AR.3839.001-01

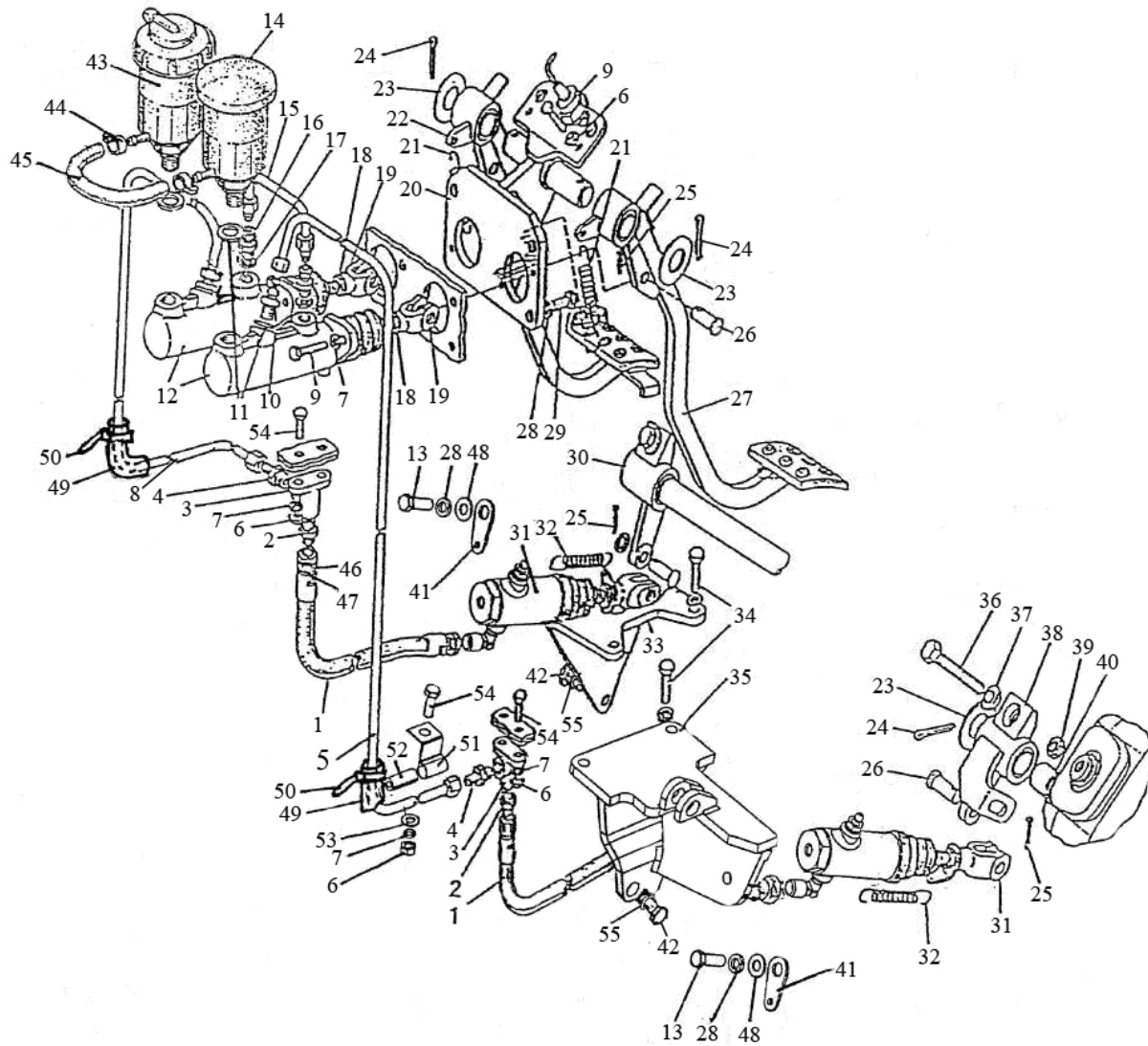


Fig. 35.3 Wet brakes control (variant)

Group 35. Brakes
Subgroup 3503. Wet brakes control (variant)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.3		1523M-3503700	1	Brakes control (1-55)
	1	923-3503200	2	Brakes flexible pipe, type IV
	2	822-3503155	2	Union body
	3	80B-1602106-B	2	Elbow
	4	822-3503701	2	Union body
	5	1522-3503070	1	Pipe line
	6	M8	7	Nut
	7	ШП8	9	Washer
	8	1522-3503080	1	Pipe line
	9	M8x35	6	Bolt
	10	822-3503084	2	Union body
	11	Д18-055А	4	Ring
	12	A73067386	2	Cylinder "Meritor"
	13	M10x30	2	Bolt
	14	822-3503090	2	Tank
	15	822-3503100	1	Pipe line
	16	822-3503083	2	Union body
	17	36-1104788	2	Gasket
	18	M10	2	Nut
	19	822-3502203	2	Yoke
	20	923-3503720	1	Bracket
	21	70-4616033 spare part	2	Spring
	22	923-3503730	1	Right pedal
	23	50-3503071	2	Washer
	24	5x36	5	Forelock
	25	3,2x18	4	Forelock
	26	12x32	4	Pin
	27	923-3503740	1	Left pedal
	28	ШП10	9	Washer
	29	M10x25	3	Bolt
	30	1523M-3503045	1	Right lever
	31	822-1602550-B	2	Working cylinder
	32	50-1310158-B	2	Spring
	33	1523M-3503040-B	1	Right bracket
	34	M10x40	4	Bolt
	35	1523M-3503030-B	1	Left bracket
	36	70-3503019	2	Bolt
	37	70-3503018	2	Washer
	38	1523M-3503025	1	Left lever
	39	M12x1,25	2	Lock nut
	40	1523M-3503015	1	Shaft
	41	923-1602116	2	Eye-loop
	42	M12x40	2	Bolt
	43	822-3503090-01	1	Tank
	44	12-20/9-C6W	2	Clamp "Norma"
	45	822-3503098	1	Hose
	46	923-3503221	4	Nipple
	47	Д80-4607212	4	Nut

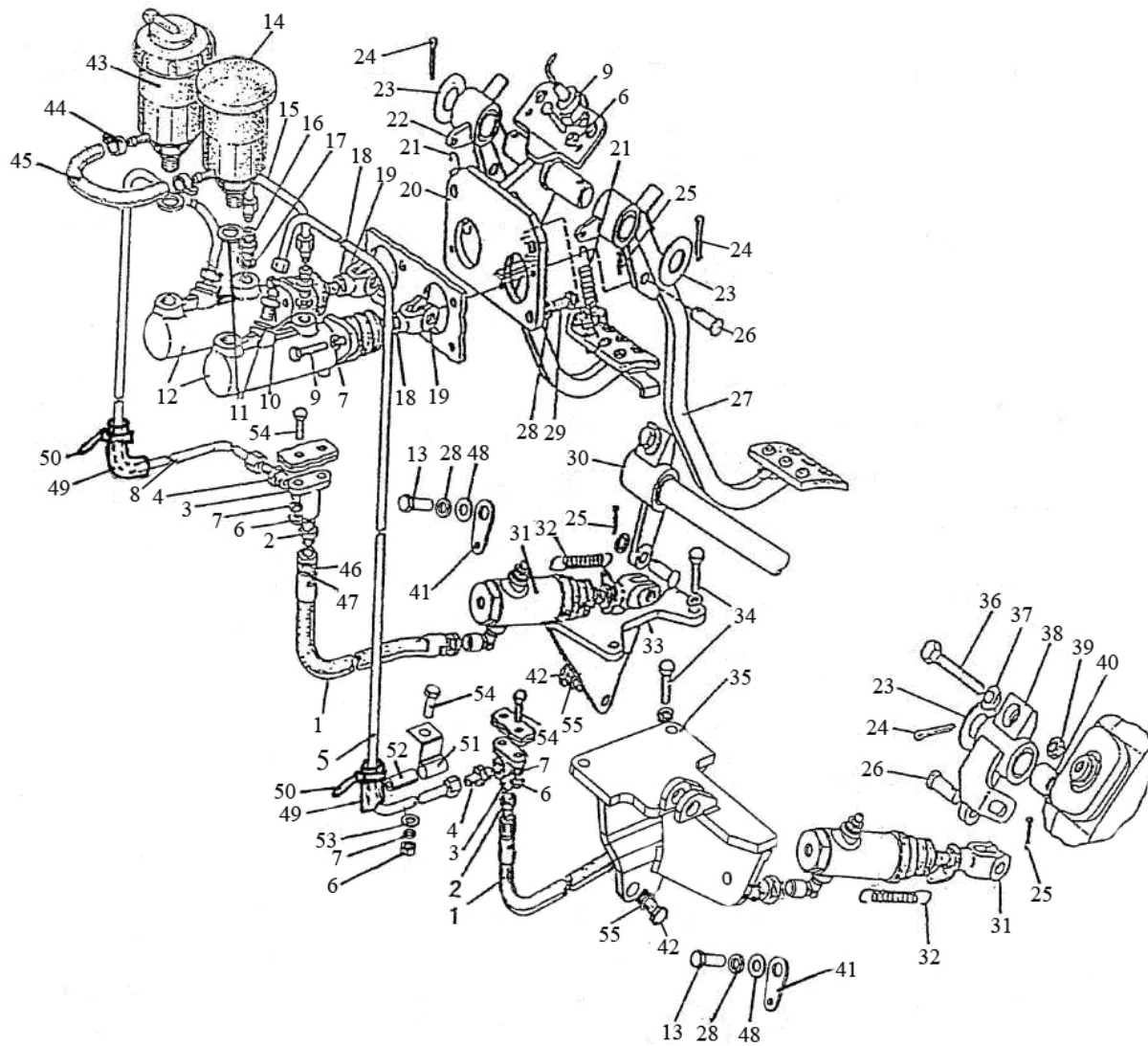


Fig. 35.3 Wet brakes control (variant)

Group 35. Brakes
Subgroup 3503. Wet brakes control (variant)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.3	48	ШЧ10	2	Washer
	49	1522-3503703	2	Pipe
	50	80-3723045	3	Collar
	51	48-1104016	1	Clamp
	52	1522-2407317	1	Pipe
	53	ШЧ8	1	Washer
	54	M8x25	5	Bolt
	55	ШП 12	2	Washer

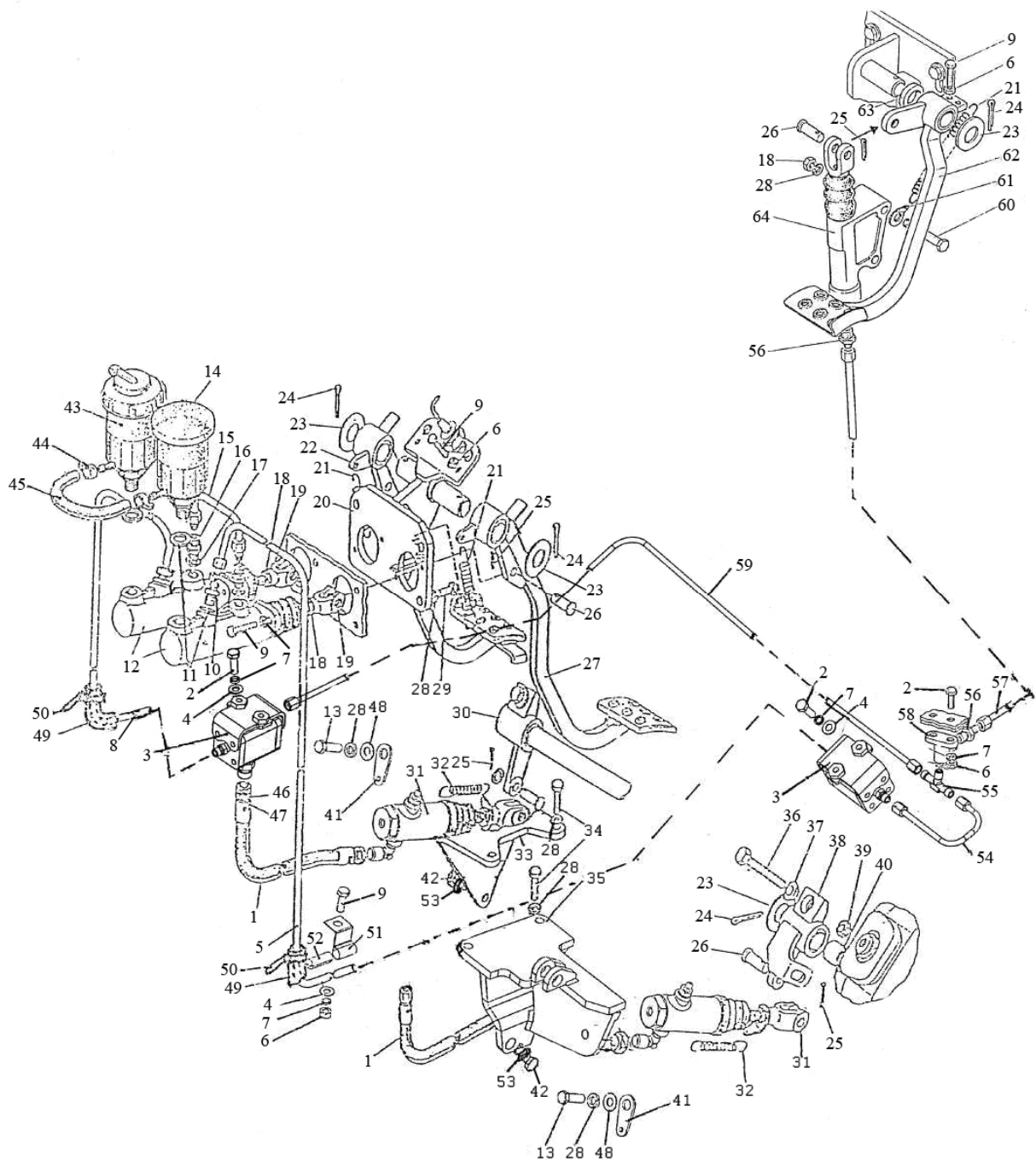


Fig. 35.4 Wet brakes control (variant)

Group 35. Brakes
Subgroup 3503. Wet brakes control (variant)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.4		1523B-3503700	1	Brakes control
	1	923-3503200	1	Brakes flexible pipe, type IV
	2		7	Bolt M8-6gx25.88.35.019 GOST 7796-70
	3	2822-1602100-03	2	Cock
	4		5	Washer C 8.01.08кп.019 GOST 6958-78
	5	1522-3503070	1	Pipe line
	6		6	Nut M8-6H.6.019 GOST 5915-70
	7		11	Washer 8T OST 37.001.115-75
	8	1522-3503080	1	Pipe line
	9		7	Bolt M8-6gx35.88.35.019 GOST 7796-70
	10	822-3503084	2	Union body
	11	Д18-055-A	4	O-ring
	12		2	Cylinder "Meritor" A73067386
	13		2	Bolt M10-6gx30.88.35.019 GOST 7796-70
	14	822-3503090	1	Tank
	15	822-3503100	1	Pipe line
	16	822-3503083	2	Union body
	17	36-1104788	2	Gasket
	18		4	Nut M1 0-6H.6.019 GOST 5915-70
	19	822-3502203	2	Yoke
	20	923-3503720	1	Bracket
	21	70-4616033 spare part	2	Spring
	22	923-3503730	1	Right pedal
	23	50-3503071	3	Washer
	24		3	Forelock 5x36.019 GOST 397-79
	25		5	Forelock 3,2x18.019 GOST 397-79
	26		5	Pin 12x32 OST 37.001.163-75
	27	923-3503740	1	Left pedal
	28		11	Washer 10 OT OST 37.001.115-75
	29		3	Bolt M10-6gx25.88.35.019 GOST 7796-70
	30	1523M-3503045	1	Lever
	31	822-1602550-B	2	Working cylinder
	32	50-1310158-B	2	Spring
	33	1523M-3503040-B	1	Right bracket
	34		4	Bolt M10-6gx40.88.35.019 GOST 7796-70
	35	1523M-3503030-B	1	Left bracket
	36	70-3503019	2	Bolt
	37	70-3503018	2	Washer
	38	1523M-3503025	1	Lever
	39		2	Nut M12x1,25-6H.04.019 GOST 5916-70

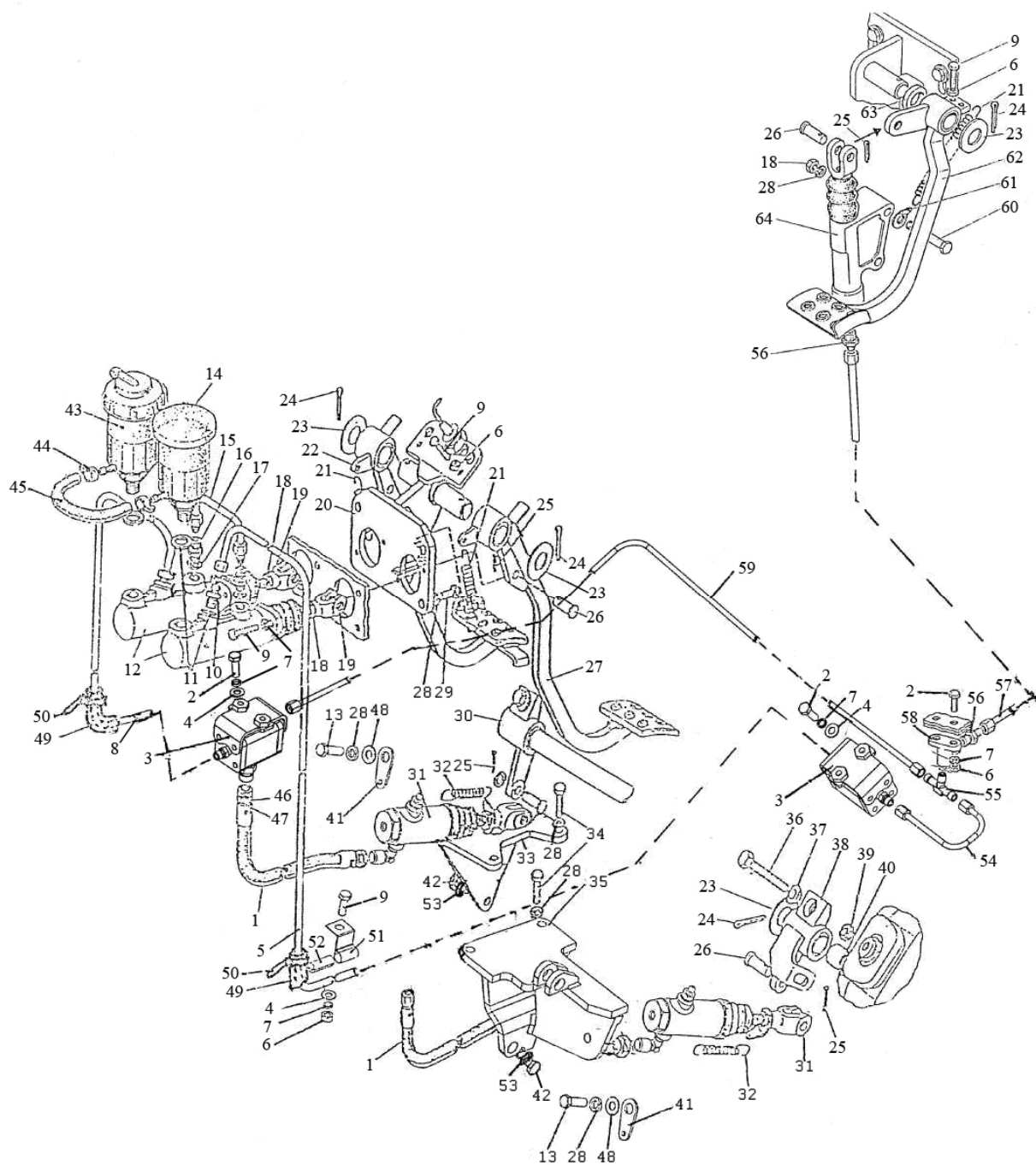


Fig. 35.4 Wet brakes control (variant)

Group 35. Brakes
Subgroup 3503. Wet brakes control (variant)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.4	40	1523M-3503015	1	Shaft
	41	923-1602116	2	Eye-loop
	42		2	Bolt M12-6gx30.88.35.019 GOST 7796-70
	43	822-3503090-01	1	Tank
	44		2	Clamp "NORMA" TORRO 12-20/9-C6W
	45	822-3503098	1	Hose
	46	Д80-4607212	4	Nut
	47	923-3503221	4	Nipple
	48		2	Washer C 10.01.08кп.019 GOST 11371-78
	49	1522-3503703	2	Pipe
	50	80-3723045	3	Collar
	51	48-1104016	1	Clamp
	52	1522-2407317	1	Pipe
	53		2	Washer 12 OT OST 37.001.115-75
	54	1523B-3503840	1	Pipe line
	55	1221-2407288	1	Three-way pipe
	56	822-3503701	2	Union body
	57	1522B-3503830	1	Pipe line
	58	80B-1602106-B	1	Elbow
	59	1523B-3503850	1	Pipe line
	60		2	Bolt M10-6gx70.88.35.019 GOST 7795-70
	61	80-1602116	1	Eye-loop
	62	1522B-3503820	1	Pedal
	63	80Y-1602143	1	Bushing
	64	1221B-1602610	1	Main cylinder

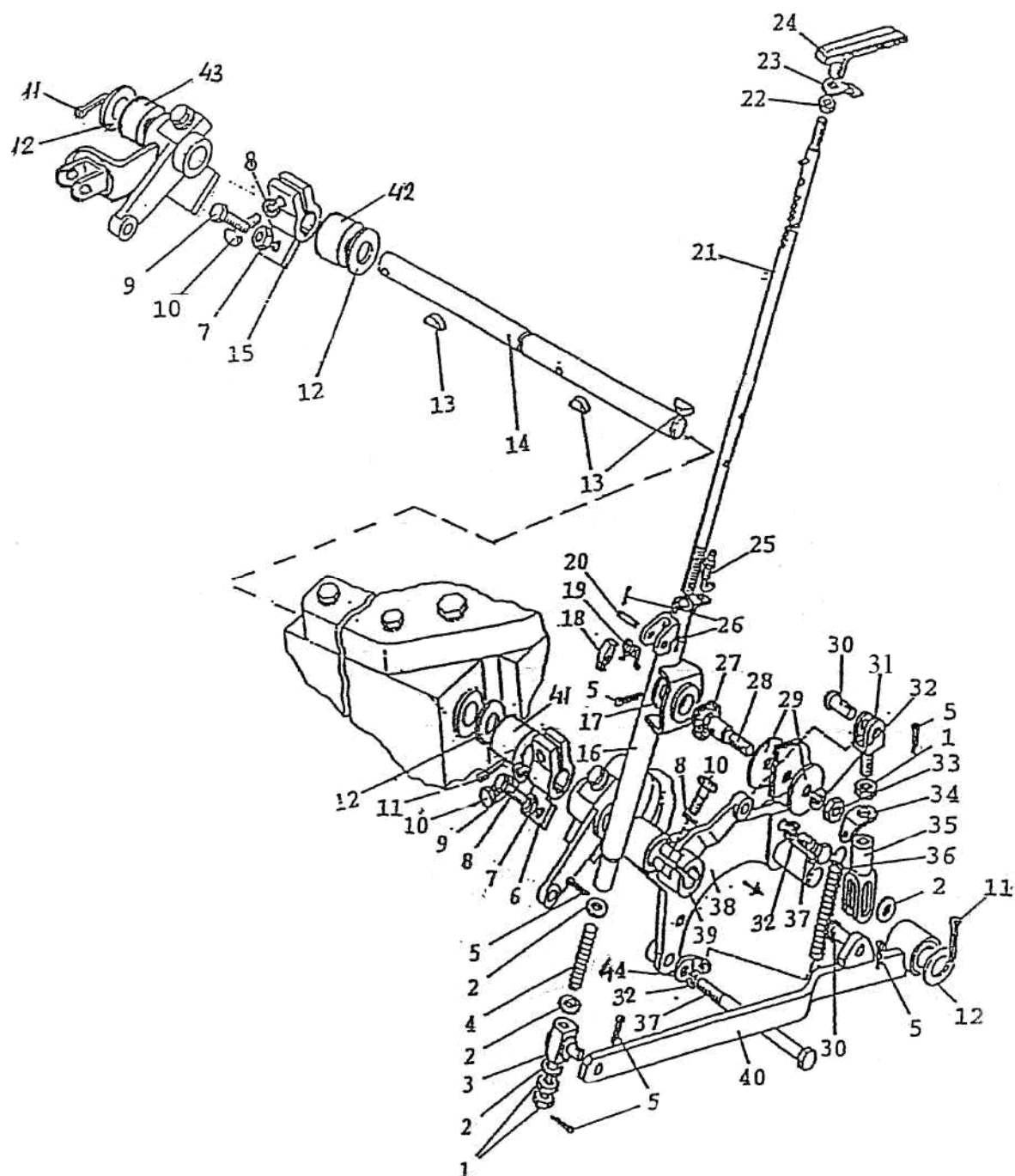


Fig. 35.5 Parking brake control (for wet brakes)

Group 35. Brakes
Subgroup 3503. Parking brake control (for wet brakes)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.5		1522M-3507010		Brakes control
		1522-3507020		Drawing mechanism (5, 16-24, 26-28)
		1522-3507160		Rod (1,31,34,35)
	1	M12x1,25	3	Nut
	2	ШЧ12	5	Washer
	3	1522-3507012	1	Pivot bolt
	4	77.55.230	1	Spring
	5	4x25	6	Forelock
	6	1522-3507050	1	Lever
		1522B-3503060	1	Lever (for reverse)
	7	M12	2	Nut
	8	ШП12	3	Washer
	9	M12X40	2	Bolt
	10	M12x35	3	Bolt
	11	5x36	3	Forelock
	12	50-3503071	6	Washer
	13	СШ-611	3	Key
	14	1522M-3503015	1	Shaft
	15	1522-3507045	1	Lever
	16	1522-3507030-A	1	Bracket
	17	ШЧ18	1	Washer
	18	1522-3507022	1	Detent
	19	1522-3507024	1	Spring
	20	1522-3507029	1	Pin
	21	1522-3507025	1	Rod
	22	52-2203013	1	Nut
	23	1522-3507023	1	Thrust
	24	1522-3507021-A	1	Handle
	25	BK409	1	Switch
	26	1,6x12	2	Forelock
	27	1522-3507028	1	Bushing
	28	1522-3507038	1	Axis
	29	1522-3507013	2	Washer
	30	12x32	2	Pin
	31	1021-3507161	1	Rod
	32	ШП14	3	Washer
	33	M14x1,5	1	Nut
	34	80-1602116	1	Eye-loop
	35	80B-3503551	1	Yoke
	36	80B-4616014-A	1	Spring
	37	1221M-3502039-02	2	Bolt
	38	1522M-3507070	1	Bracket

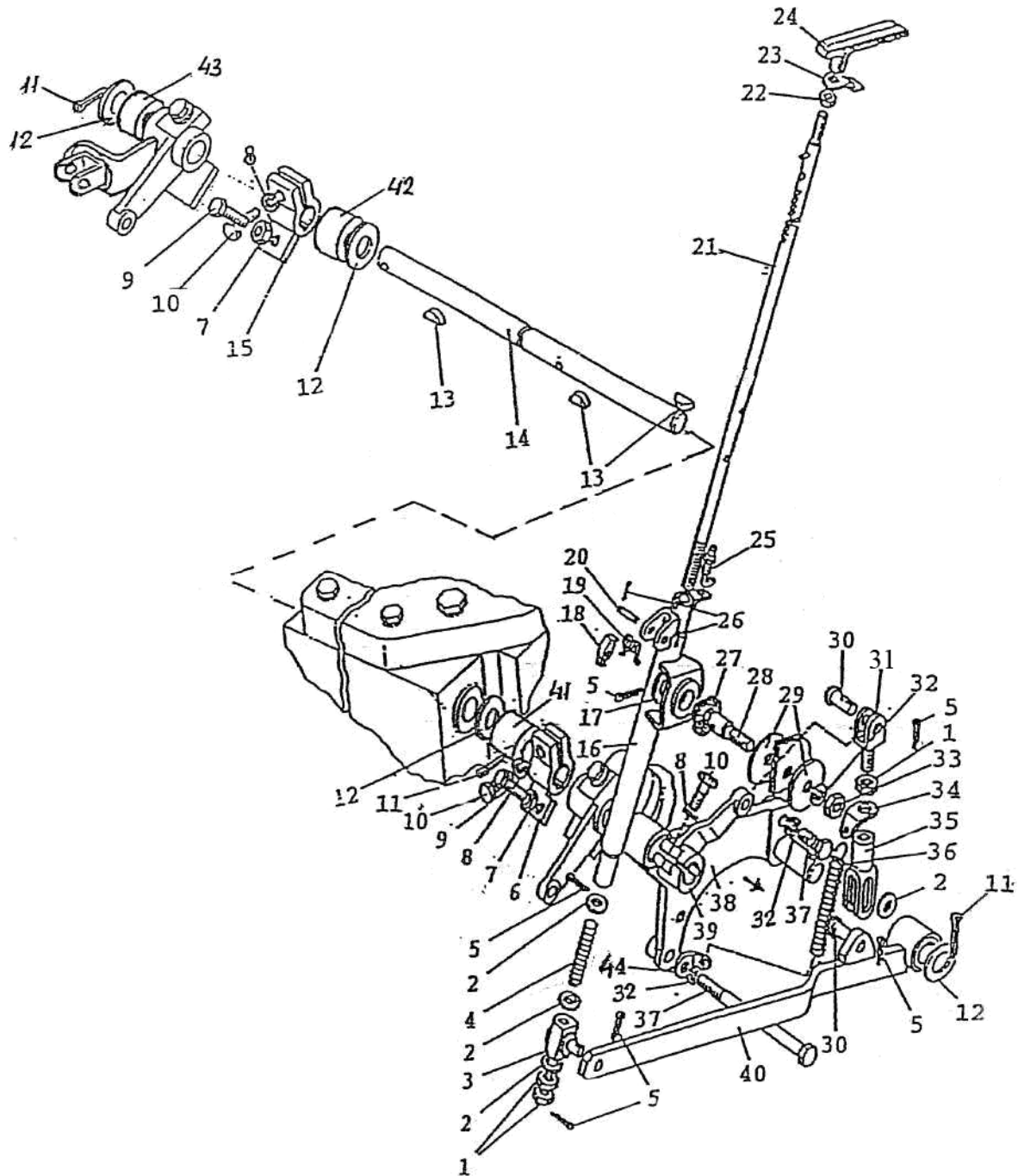


Fig. 35.5 Parking brake control (for wet brakes)

Group 35. Brakes
Subgroup 3503. Parking brake control (for wet brakes)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.5	39	1522-3507060	1	Lever
	40	1522M-3507040	1	Lever
	41	1221M-3503016-02	1	Bushing
	42	1221M-3503016-01	1	Bushing
	43	1221M-3503016	1	Bushing
	44	80-1602116-01	1	Eye-loop

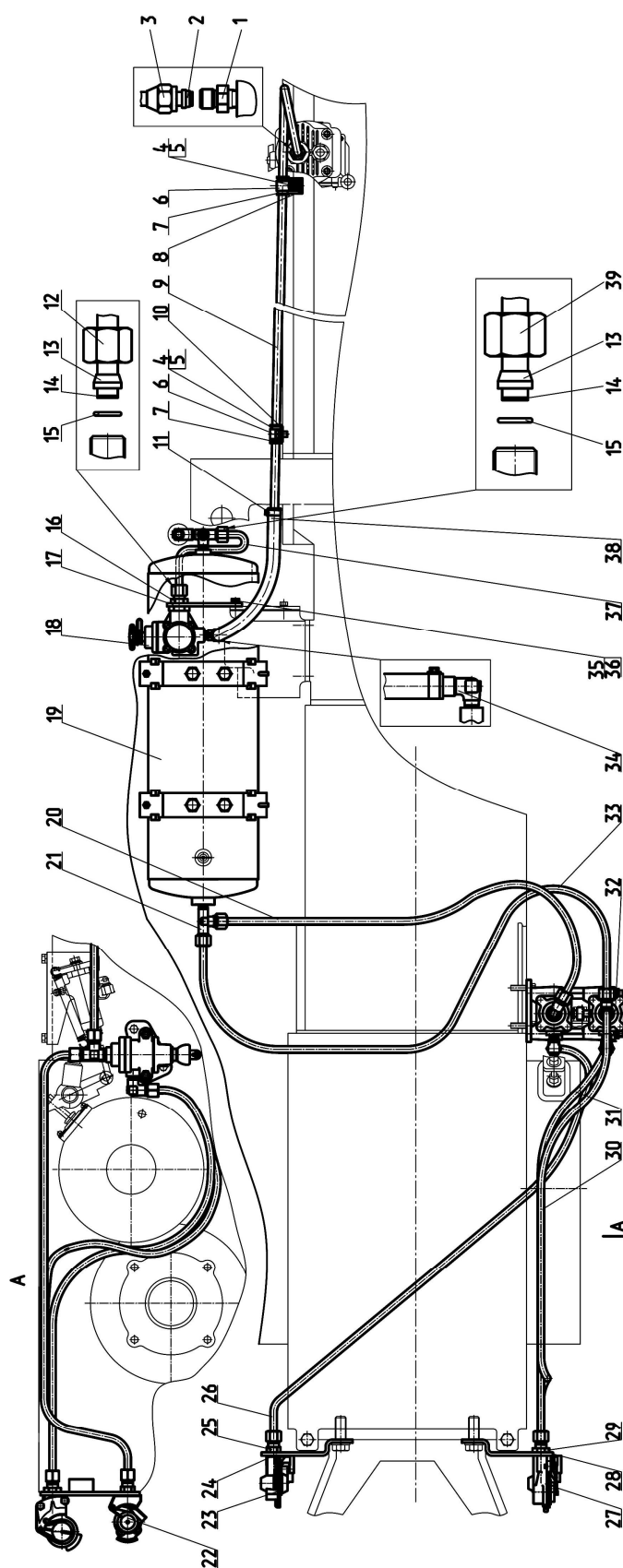


Fig. 35.6 Pipelines and fittings of trailer brakes air drive

Group 35. Brakes
Subgroup 3506. Pipelines and fittings of trailer brakes air drive

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.6	1	70-3506022	1	Union body
	2	80-3506024	1	Clutch
	3	70-3506023	1	Captive nut
	4	M10-6gx16.88.35.019	2	Bolt
	5	10 OT	2	Washer
	6	1321-8700031	2	Clamp
	7	70-3506027	2	Bushing
	8	1523.4-3506012	1	Plate
	9	1523.4-3506011	1	Pipe
	10	1221M-3506012	1	Plate
	11	16-27	2	Clamp with worm thread
	12	1522-3506026	1	Captive nut
	13	1522-3506024	12	Clutch
	14	1522-3506022	12	Nipple
	15	012-015-19-2-4	12	Ring
	16	80-3512006	1	Lock nut
	17	1522-3512012	1	Bracket
	18	A29.51.000 Б	1	Pressure regulator
	19	50-3513015-A	1	Ballon
	20	1522M-3506051	1	Pipe
	21	1522-3513551	1	Three-way pipe
	22	64226-3521110	1	Automatic coupling head
	23	64226-3521111	1	Automatic coupling head
	24	1522-3521512	1	Bracket
	25	1522-3521513	2	Union body
	26	1021-3506021-03	1	Pipe
	27	A29.76.000	1	Coupling head
	28	2022Д-3521711	1	Bracket
	29	1522-3521012	1	Union body
	30	1522M-3506041	1	Pipe
	31	1025-3506561-01	1	Pipe
	32	1523-3514705-01	1	Break valve
	33	2022Д-3506021	1	Pipe
	34	70-3513015	1	Elbow
	35	M8-6gx30.88.35.019	2	Bolt
	36	8T	2	Washer
	37	1522-3506021	1	Pipe
	38	1523.4-3506014	1	Hose
	39	1522-3506023	11	Captive nut

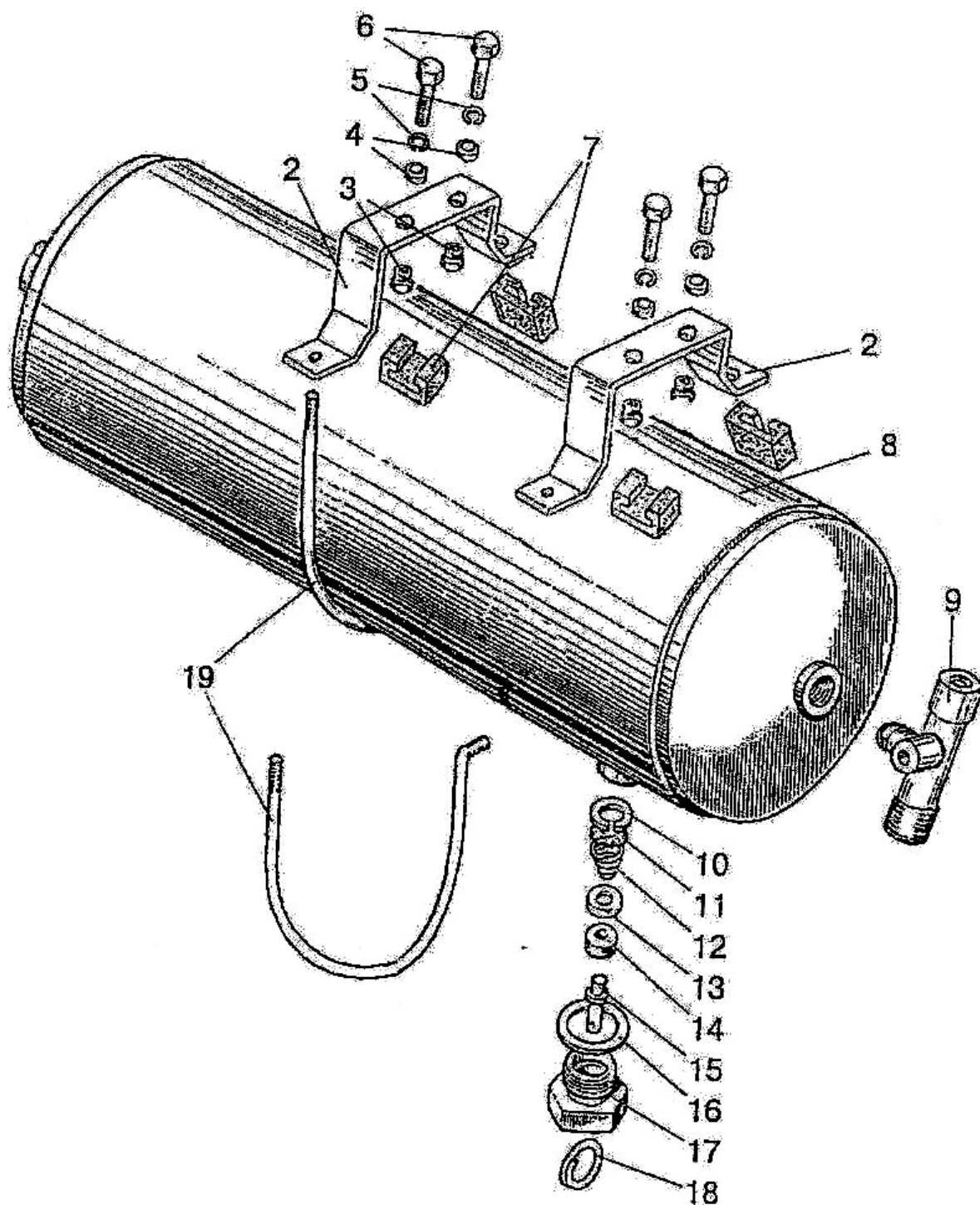


Fig. 35.7 Ballon

Group 35. Brakes
Subgroup 3513. Ballon

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.7		85-3513110	1	Valve (10-17)
	2	B50-3513025-A	2	Bracket
	3	1522-3513011	4	Nut
	4	1522-3513012	4	Bushing
	5	ШП10	4	Washer
	6	M10x45	4	Bolt
	7	ПР-43-01	4	Seal
	8	50-3513015-A	1	Ballon
	9	1522-3513015	1	Cross bar
	10	85-3513128	1	Ring
	11	85-3513117	1	Filter
	12	85-3513125	1	Spring
	13	85-3513112-A1	1	Disk
	14	85-3513113	1	Valve
	15	85-3513124	1	Lifter
	16	B50-3522023	1	Gasket
	17	85-3513120	1	Housing
	18	H50-4202146	1	Ring
	19	B50-3513032	2	Clamp

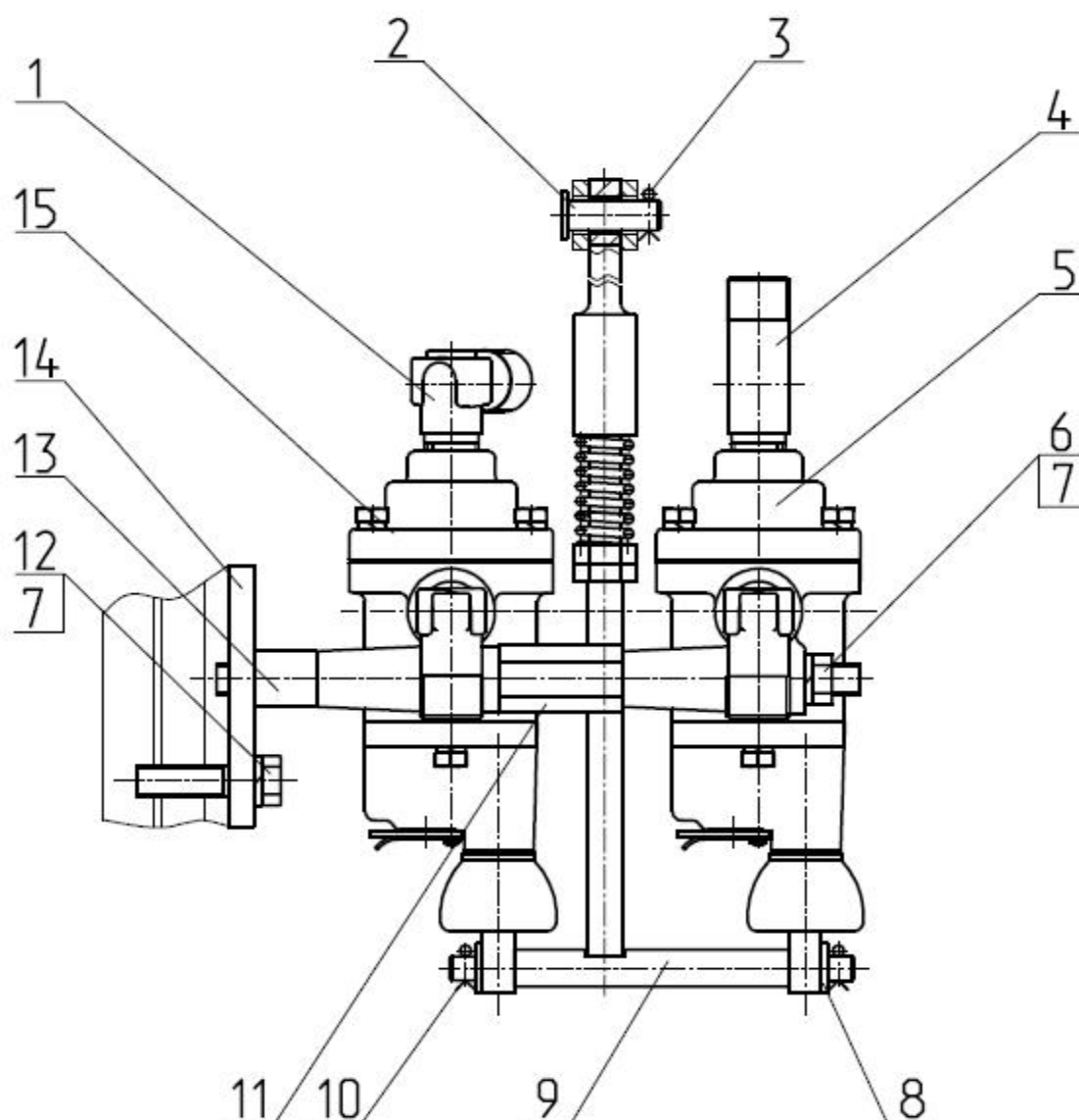


Fig. 35.8 Break valve

Group 35. Brakes
Subgroup 3514. Break valve

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
35.8	1	1522-3514033	3	Elbow
	2	Pin 12x32	1	Pin
	3	3,2x18.019	1	Forelock
	4	1522-3513551	1	Three-way pipe
	5	A29.3514010-01	1	Break valve
	6	M10-6H.6.019	2	Nut
	7	Washer 10 OT	3	Washer
	8	Washer C 8.01.019	2	Washer
	9	1523-3514730	1	Rod
	10	2,5x16.019	2	Forelock
	11	1523-3514714	2	Stud
	12	M10-6gx40.88.35.019	1	Bolt
	13	1522M-3514013	2	Lug
	14	1522M-3514012	1	Plate
	15	A29.351.4010-02	1	Break valve

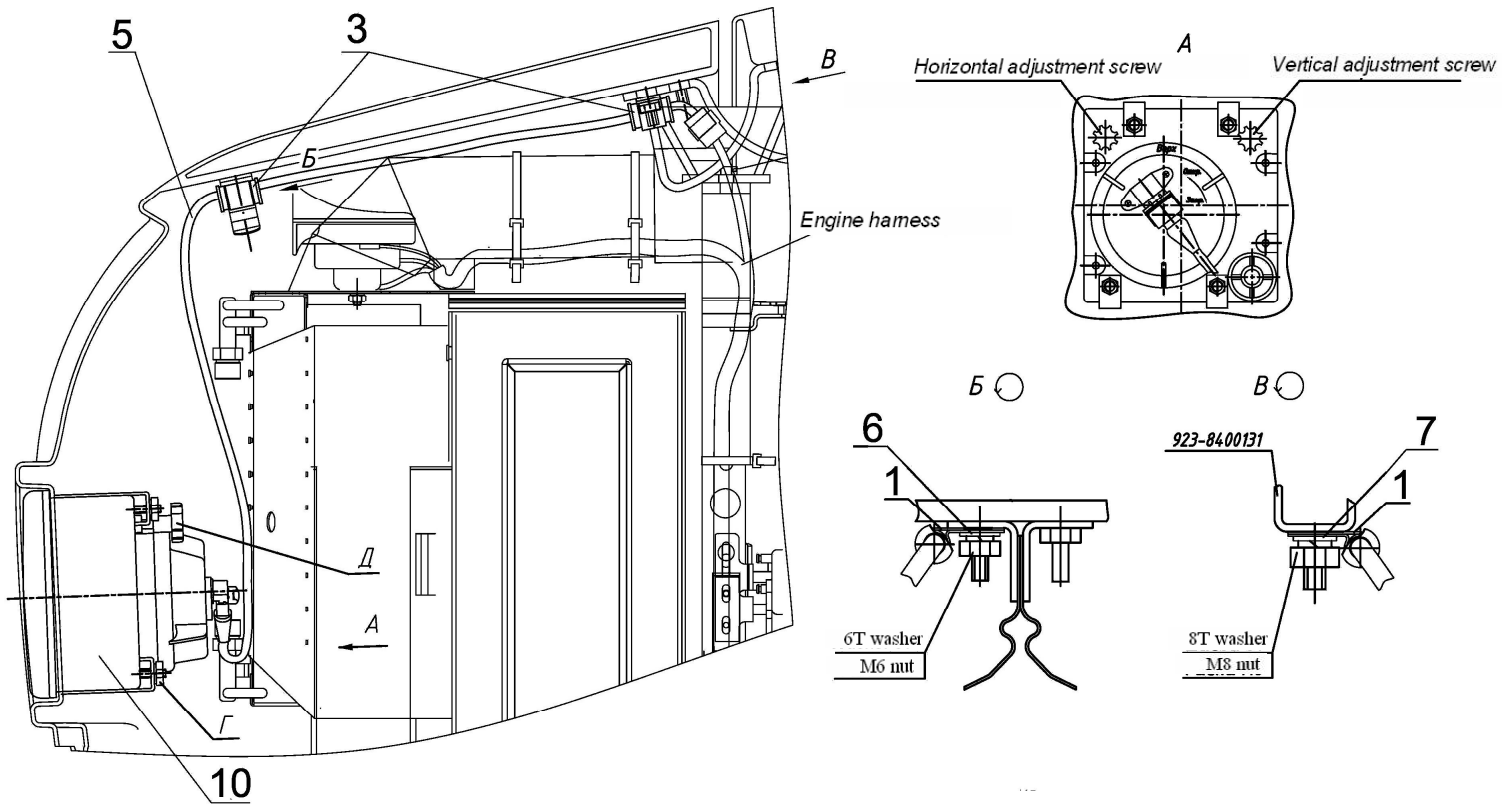


Fig. 37.1 Head lamps installation

Group 37 Electrical equipment
Subgroup 3700. Head lamps installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.1	1	70-115012-01	2	Clamp
	3	70-3506027	2	Bushing
	5	422.1-3724025	1	Harness GOST 23544-84
	6	C6.01.019	1	Washer GOST 6958-78
	7	C8.01.019	1	Washer GOST 6958-78
	10	08 7101 000	2	Head lamp TU RB 600398030.004-2004

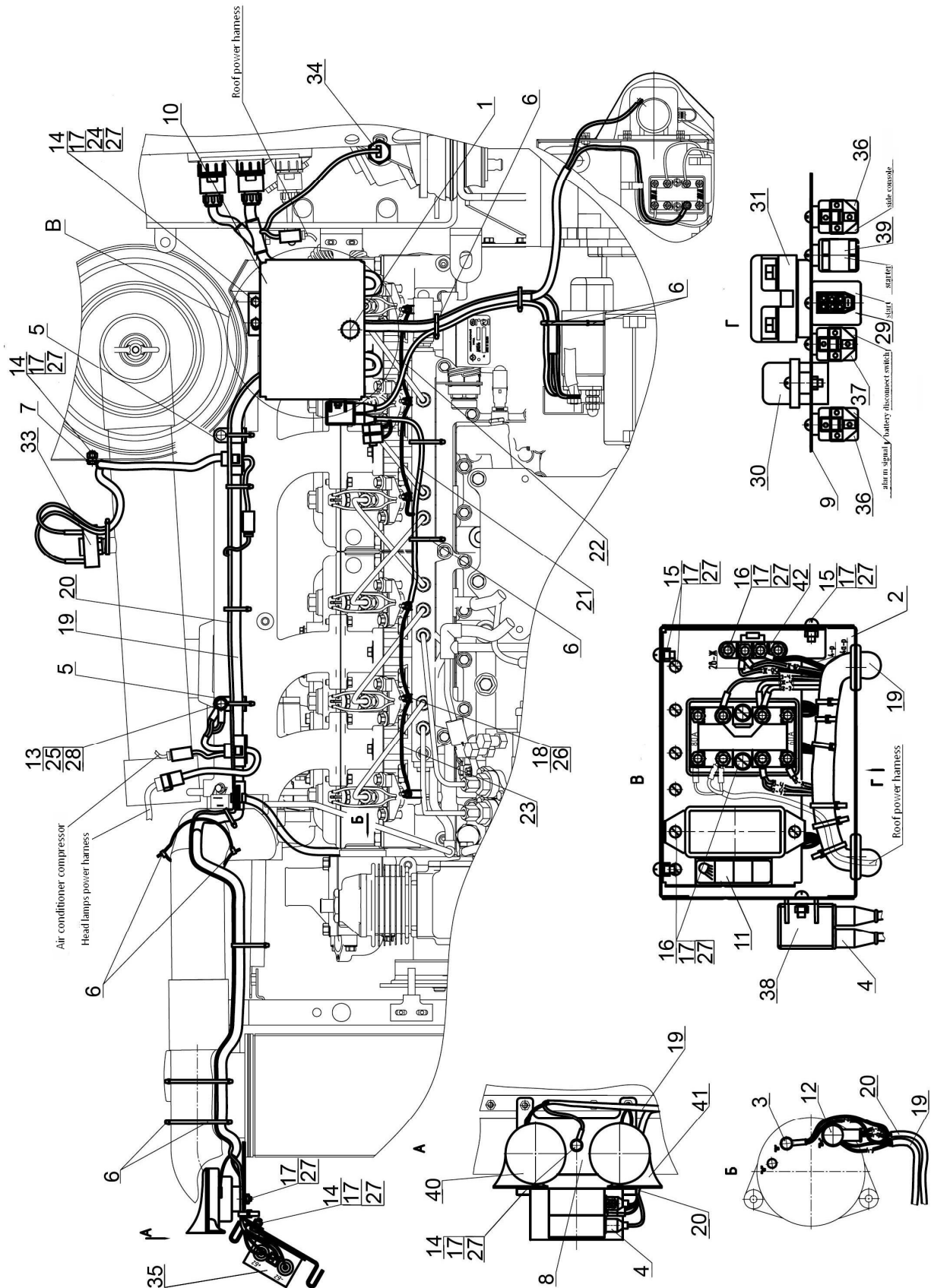


Fig. 37.2 Diesel engine electrical equipment

Group 37 Electrical equipment
Subgroup 3700. Diesel engine electrical equipment

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.2	1	80-3805065	1	Screw
	2	1522-3747010	1	Box
	3	54.24.445 Б	1	Tip
	4	70-3723035	4	Tip
	5	80-3723016	2	Bracket
	6	80-3723045-01	23	Collar
	7	822-3723001	1	Joke
	8	1221-3759011	1	Bracket
	9	1522-3747011	1	Panel
	10	1522-3747013	1	Cover
	11	2022-3722011	1	Instruction plate
	12	TM-59-6000-38	1	Rubber tip
	13	M8-6gx16.88.35.019	1	Bolt GOST 7796-70
	14	M6-6gx16.88.35.019	6	Bolt GOST 7798-70
	15	B.M6-6gx10.58.019	8	Screw GOST 17473-80
	16	B.M6-6gx20.58.019	8	Screw GOST 17473-80
	17	M6-6H.6.019	24	Nut GOST 5915-70
	18	M5-6H.6.019	6	Nut GOST 5927-70
	19	1523.4M-3724360	1	Harness GOST 23544-84
	20	80-3724345-B	1	Harness GOST 23544-84
	21	1221-3724380-A	1	Harness GOST 23544-84
	22	80-3724381	1	Cable GOST 23544-84
	23	1221-3724383	4	Cable GOST 23544-84
	24	C.6.01.019	2	Washer GOST 11371-78
	25	C.8.01.019	1	Washer GOST 11371-78
	26	5T	6	Washer OST 37.001.115-75
	27	6T	24	Washer OST 37.001.115-75
	28	8T	1	Washer OST 37.001.115-75
	29	3741.10	1	Glow plug block
	30	3722.20	1	Fuse block
	31	3722.60	1	Fuse block
	33	3845.10	1	Air cleaner clogging sensor
	34	3829.15	1	Air pressure emergency sensor
	35	3759.10	1	Voltage transducer
	36	3747.50	2	Cut-in relay 30A
	37	3747.40	1	Cut-in relay 20A
	38	3747.35	1	Glow plug relay
	39	3747.25	1	Starter relay
	40	3721.15	1	Low pitch motorhorn
	41	3721.20	1	High pitch motorhorn
	42	3741.25	1	Generator additional resistor

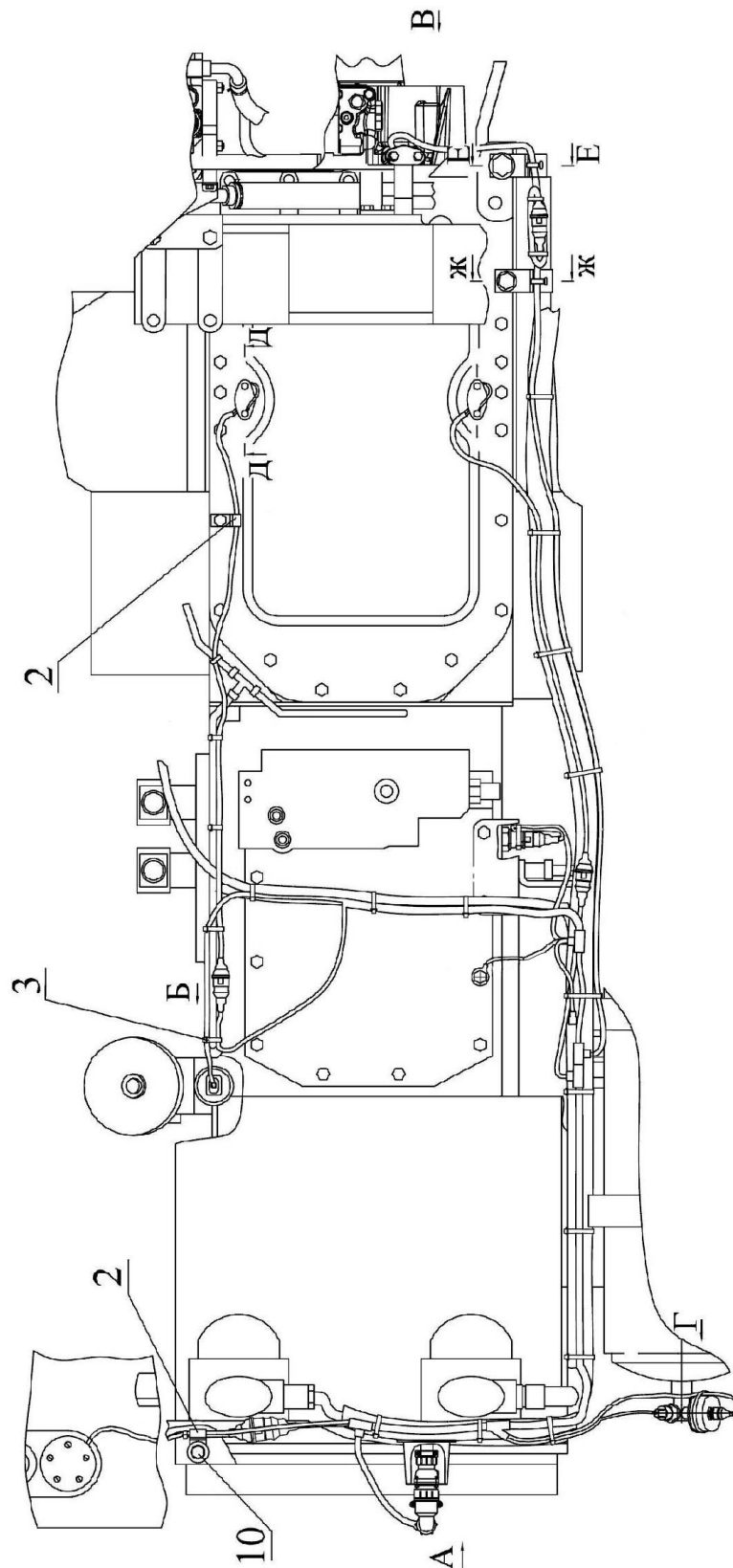


Fig. 37.3 Transmission electrical equipment

Group 37 Electrical equipment
Subgroup 3700. Transmission electrical equipment

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.3 37.4	1	2022-3723011	2	Bracket
	2	822-3723001	2	Joke
	3	80-3723045-01	Maximum-25	Collar
	4	80-3843001-01	Maximum-14 ($U_{3.M.}=23,43$) Maximum-16 ($U_{3.M.}=27,33$)	Gasket
	5	1522-3843002	2	Gasket
	6	85-1702051	1	Washer
	7	Д18-055-A-01	1	O-ring
	8	M8x25	4	Bolt
	9	M8x30	2 ($U_{3.M.}=23,43$) 6 ($U_{3.M.}=27,33$)	Bolt
	10	C10	1	Washer
	11	C14	1	Washer
	12	C20	1	Washer
	13	1223-3724315-Г	1	Transmission harness
	14	8T	6	Spring washer
	15	3829.20	1	Air pressure sensor
	16	3829.25	1	Air pressure emergency sensor
	17	3829.30	1	Gear box oil pressure sensor
	18	3843.15	3	Rpm sensor

Note $U_{M.3}$ - Rear axle gearing ratio (depending on the type of driven gear)

Gear 1221-2407122 $U_{M.3}=23,43$

Gear 1522-2407122 $U_{3.M.}=27,33$

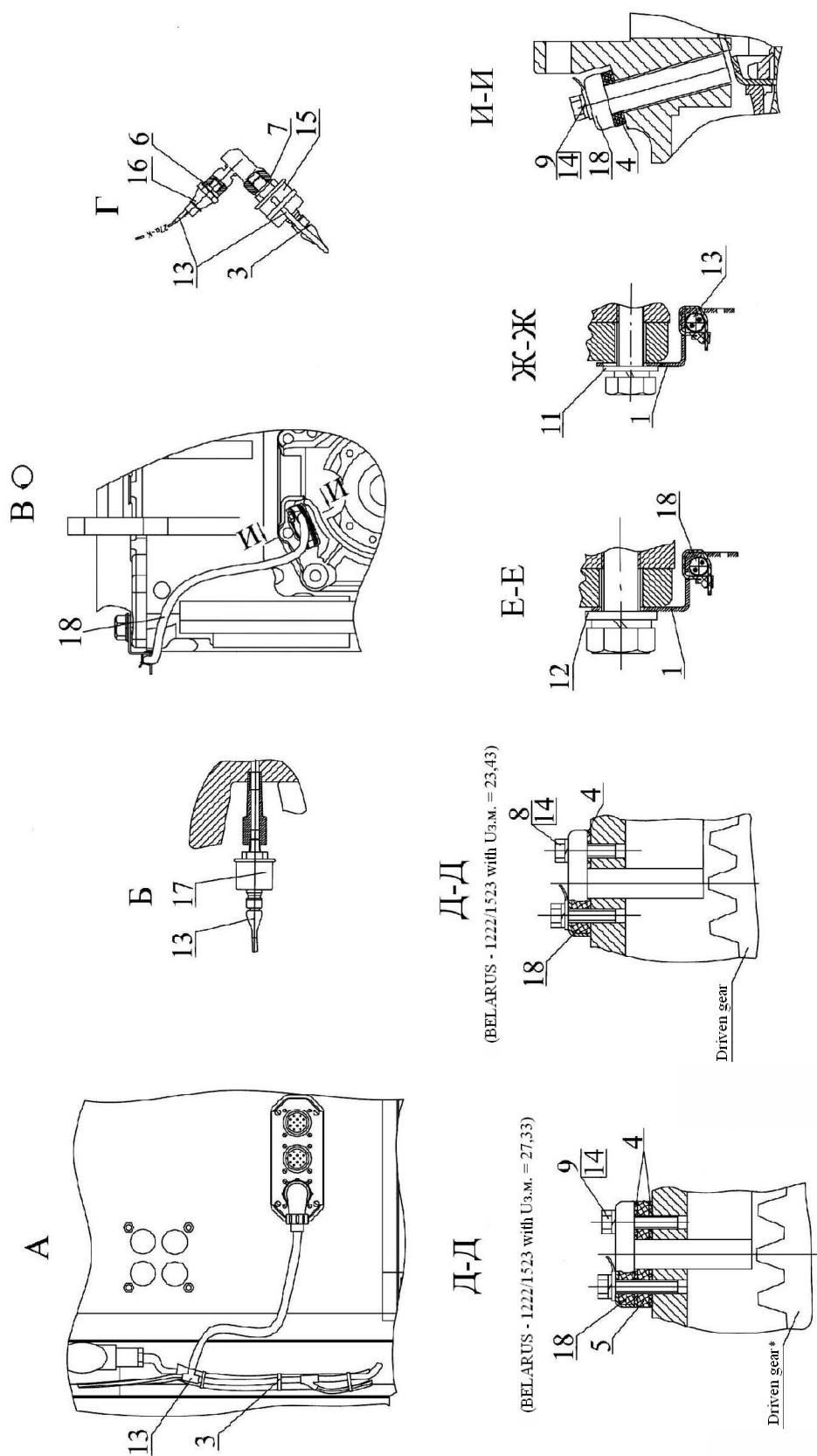


Fig. 37.4 Transmission electrical equipment

Group 37 Electrical equipment
Subgroup 3700. Transmission electrical equipment

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.3 37.4	1	2022-3723011	2	Bracket
	2	822-3723001	2	Joke
	3	80-3723045-01	Maximum-25	Collar
	4	80-3843001-01	Maximum-14 ($U_{3M}=23,43$) Maximum-16 ($U_{3M}=27,33$)	Gasket
	5	1522-3843002	2	Gasket
	6	85-1702051	1	Washer
	7	Д18-055-A-01	1	O-ring
	8	M8x25	4	Bolt
	9	M8x30	2 ($U_{3M}=23,43$) 6 ($U_{3M}=27,33$)	Bolt
	10	C10	1	Washer
	11	C14	1	Washer
	12	C20	1	Washer
	13	1223-3724315-Г	1	Transmission harness
	14	8T	6	Spring washer
	15	3829.20	1	Air pressure sensor
	16	3829.25	1	Air pressure emergency sensor
	17	3829.30	1	Gear box oil pressure sensor
	18	3843.15	3	Rpm sensor

Note $U_{M,3}$ - Rear axle gearing ratio (depending on the type of driven gear)

Gear 1221-2407122 $U_{M,3}=23,43$

Gear 1522-2407122 $U_{3M}=27,33$

181

Group 37 Electrical equipment
Subgroup 3700. Cabin electrical equipment I

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.5	1	923-3724100-Г	1	Cabin harness
	2	822-3724012	1	Cable
	3	ШП6	17	Washer
	4	M6x12	7	Bolt
	5	923-3723042	2	Bushing
	9	1522-3712003	2	Bracket
	13	3720.10	2	Stop signal switch
	14	BM3x16	8	Screw
	15	ШЧ3	8	Washer
	16	ШП3	8	Washer
	17	M6	12	Nut
	18	1222-3731003	2	Bracket
	19	3731.10	2	Reflector
	20	BM6x16	6	Screw
	21	ШЧ6	5	Washer
	22	BM6x20	4	Screw
	23	3716.10	2	Back light
	24	923-3724160-Б	1	Back light harness
	25	70-1115012	2	Clamp
	25	70-3723035	1	Tip
	27	3717.10	1	Number plate light
	23	80-6708904	2	Gasket
	29	BM5x35	3	Screw
	30	3723.10	1	Trailer socket
	32	923-3723041	1	Bracket
	32	ШП5	3	Washer
	33	M5	3	Nut
	39	2522-3724203	1	Harness
	40	3710.60	1	Hand brake light switch

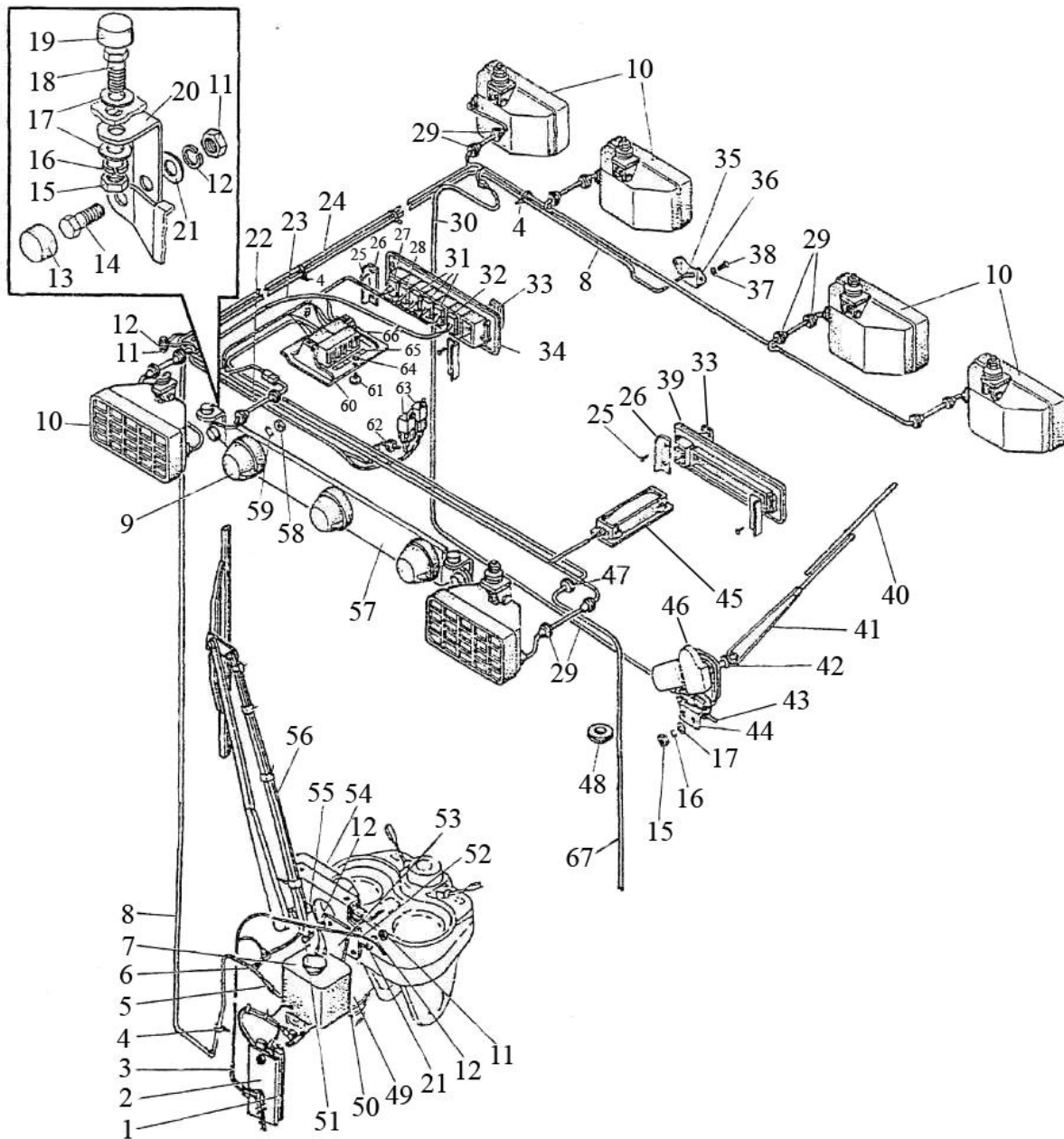


Fig. 37.6 Cabin electrical equipment II

Group 37 Electrical equipment
Subgroup 3700. Cabin electrical equipment II

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.6	1	923-3712016	1	Gasket
	2	923-3712017	1	Bracket
	3	923-3724130-B	1	Harness
	4	80-3723045	8	Collar
	5	923-5208002	1	Pipe
	6	5208.15	1	Distributor
	7	122.5208000	1	Electrical washer
	8	923-5208002-01	1	Pipe
	9	3738.10	3	Roadtrain lamp
	10	8724.304/31	6	Working light
	11	M6	9	Nut
	12	ШП6	17	Washer
	13	A30.04.017	2	Cap
	14	M6X16	2	Bolt
	15	M8	6	Nut
	16	ШП8	6	Washer
	17	ШЧ6	6	Washer
	18	M8x20	2	Bolt
	19	A30.04.017-01	2	Cap
	20	90-8402071-01	2	Bracket
	21	ШЧ8	6	Washer
	22	923-3724233-A	1	Harness
	23	923-3724353-B	1	Harness
	24	923-3724350-B	1	Harness
	25	4x10	8	Male screw
	26	923-3801344	4	Plate
	27	3710.40	1	Roadtrain indicator switch
	28	3709.35	1	Windscreen wiper and washer switch
	29	923-3723024	14	Bushing
	30	923-3724014-B	1	Harness
	31	3710.30	3	Working lights switch
	32	3709.15	1	Fan switch
	33	80-3801327	2	Blind plug
	34	923-3801342	1	Shield
	35	5208.10	1	Fuel jet
	36	70-5208011-A	1	Plate
	37	ШЧ5	2	Washer
	38	4x10	2	Screw
	39	923-7901018	1	Shield
	40	20.5212 400	1	Windscreen wiper blade
	41	20.5215 300	1	Windscreen wiper lever
	42	822-5205043	1	Bushing
	43	80-3723045-01	1	Collar
	44	923-5205022	1	Bracket
	45	3714.25	1	Cabin dome light 185x46,5
	46	T240-5205010	1	Driving mechanism with housing
	47	923-3723042	1	Bushing

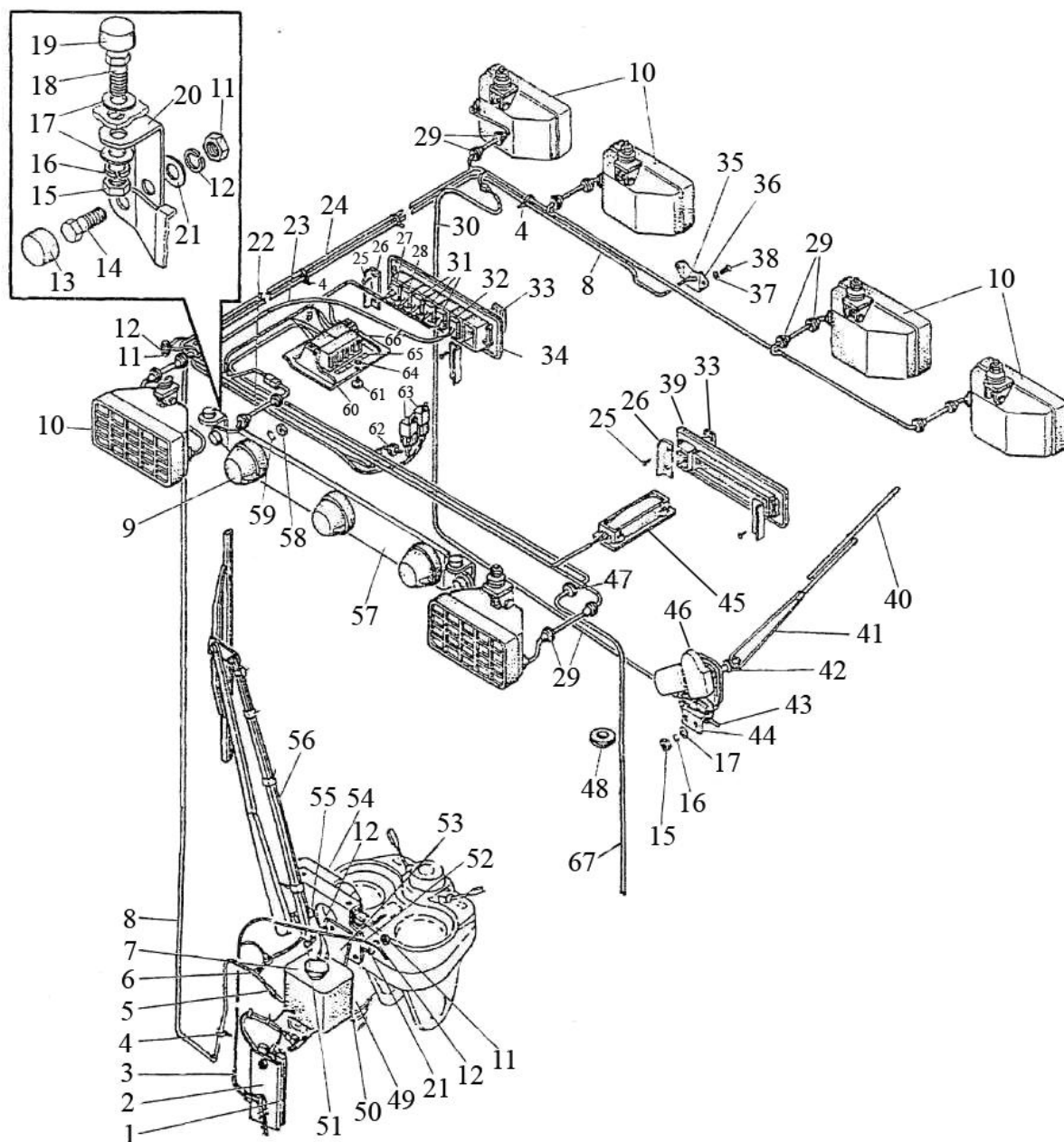


Fig. 37.6 Cabin electrical equipment II

Group 37 Electrical equipment
Subgroup 3700. Cabin electrical equipment II

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.6	48	80-3723048	1	Bushing
	49	BM4x10	2	Screw
		BM6X12	4	Screw
		M4	2	Nut
		ШП4	2	Washer
	50	122.5208 304	1	Bracket
	51	M6X12	3	Bolt
	52	923-3724130-B	1	Harness
	53	923-5208005	1	Bracket
	54	5205.15	1	Parallel-motion windscreen wiper
	55	70-1602037	1	Bushing
	56	5205.45	1	Brush with lever 660/600 with spraying jet
	57	80-3738001	1	Plate
	58	M5	6	Nut
	59	ШП5	6	Washer
	60	822-3801341	1	Shield
	61	80-3805065	1	Screw
	62	70-3723042-01	1	Bushing
	63	3747.50	2	Cut-in relay 30A
	64	006-010-25-1-4	1	Ring
	65	923-3801343-Б	1	Instruction plate
	66	3722.25	1	Fuse block
	67	923-3724351	1	Harness

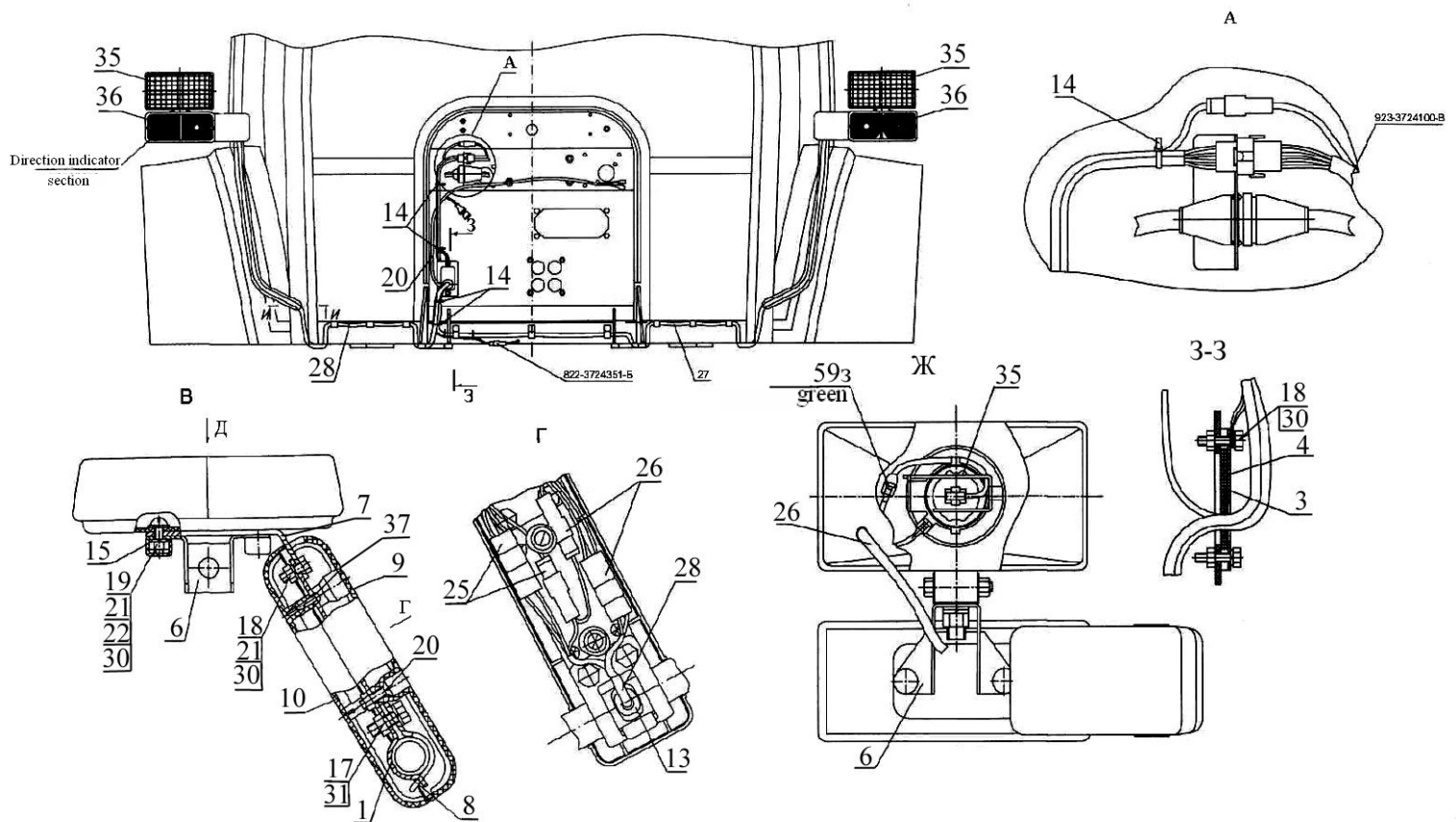


Fig. 37.7 Front lights installation

**Group 37 Electrical equipment
Subgroup 3700. Front lights installation**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.7	1	920-3712010	2	Bracket
	3	923-3712016	1	Gasket
	4	923-3712017	1	Bracket
	5	923-3723042	2	Bushing
	6	920-3711011	2	Bracket
	7	920-3712012	2	Bracket
	8	920-3712013	2	Joke
	9	920-3712021	2	Housing
	10	920-3712022	2	Housing
	13	70-3723042-01	6	Bushing
	14	80-3723045	4	Collar
	15	A30.04.017	4	Cap
	17		4	Bolt M8-6gx16.88.35.019 GOST 7796-70
	18		6	Bolt M6-6gx18.88.35.019 GOST 7798-70
	19	912075	4	Screw B.M6-6gx18.58.019 GOST 17473-80
	20	912077	4	Screw B.M6-6gx18.58.019 GOST 17475-80
	21		8	Nut M6-6H.6.019 GOST 5915-70
	22		4	Washer C 6.01.019 GOST 11371-78
	24		1	Harness 923-3724130-B GOST 23544-84
	25		2	Harness 923-3724140-B GOST 23544-84
	26		2	Harness 923-3724142 GOST 23544-84
	27		1	Harness 923-3724145-B GOST 23544-84
	28		1	Harness 923-3724146-B GOST 23544-84
	30		10	Washer 6T OST 37.001.115-75
	31		4	Washer 8T OST 37.001.115-75
	35	8724.304/011	2	Working light
	36	3712.10	2	Front light with side repeater
	37		8	Male screw 4x16.019

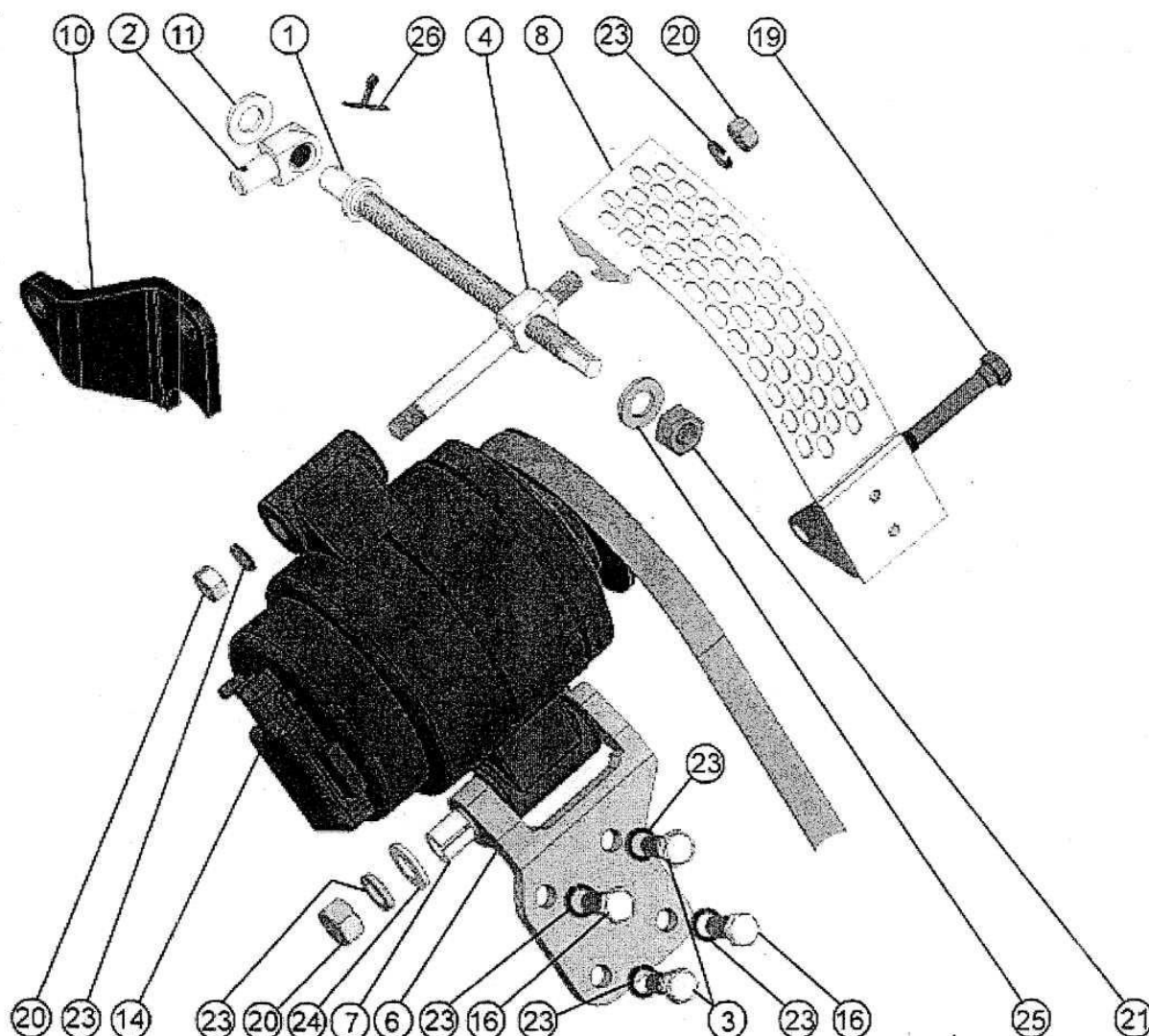


Fig. 37.8 Generator installation

**Group 37 Electrical equipment
Subgroup 3701. Generator installation**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.8	1	265-3701076-01	1	Pin
	2	260-1310001	1	Elbow
	3	260-3701068	2	Special-type bolt
	4	260-3701052	1	Axis
	5	260-3701054	1	Pulley
	6	260-3701056-Г	1	Bracket
	7	260-3701057	1	Split bushing
	8	260-3701060	1	Shield
	10	260-3701055-Д	1	Plate
	11	245 - 3701069	2	Washer
	13	11X10-1180	1	Belt
	14	AAN5594	1	Generator
	16	M10-6gx30. 88.35.019	2	Bolt
	19	M10-6gx100.88.35.019	1	Bolt
	20	M10-6H.6.019	3	Nut
	21	M12 - 6H.6.019	1	Nut
	23	10.65Г.06.	7	Washer
	24	10.01.08кп.	1	Washer
	25	12.65Г.06.	1	Washer
	26	3.2x18.016	2	Forelock

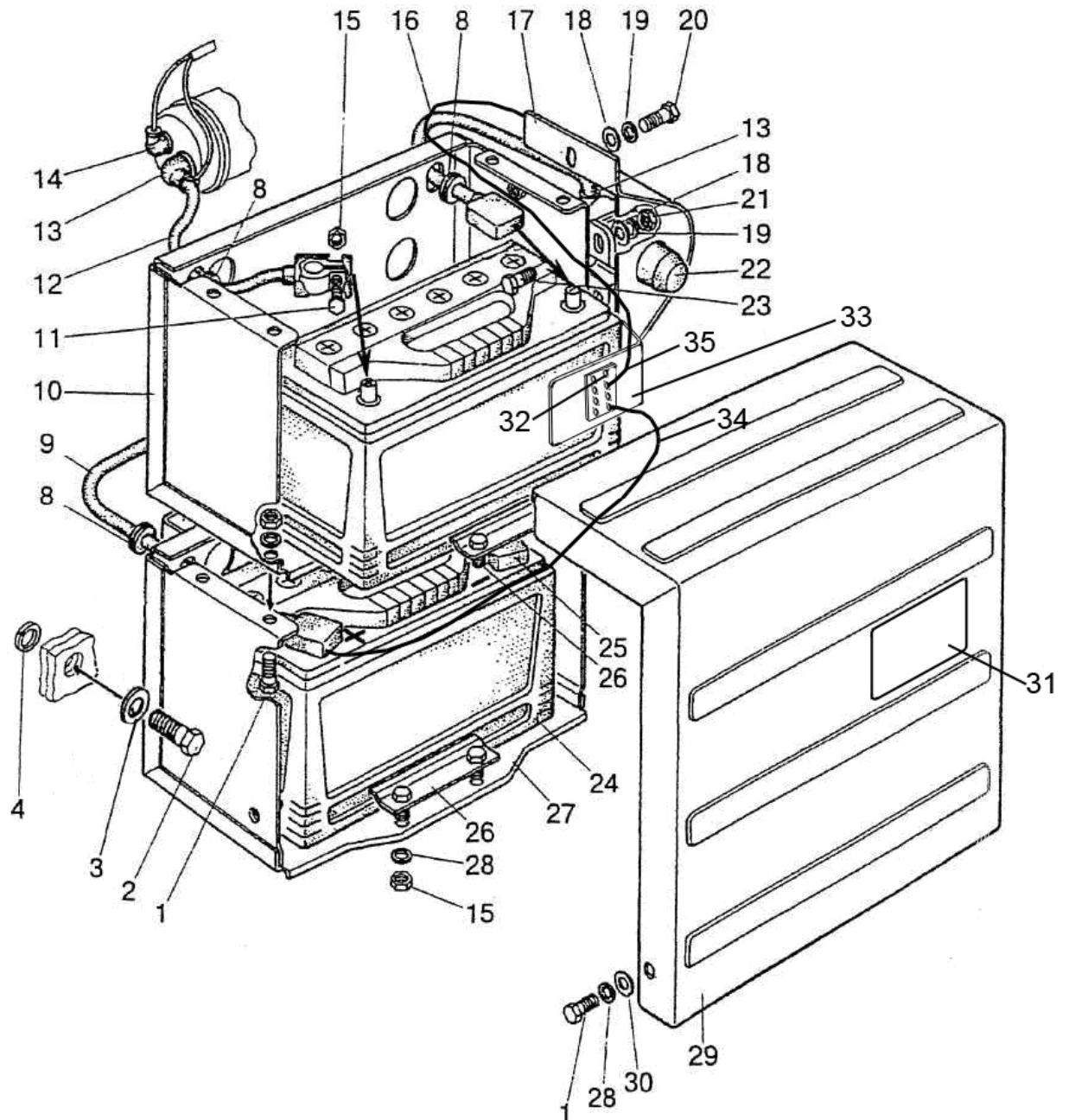


Fig. 37.9 Storage battery installation

Group 37 Electrical equipment
Subgroup 3724. Storage battery installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.9	1	M8x20	6	Bolt
	2	M16x40	2	Bolt
	3	ШЧ16	2	Washer
	4	ШП16	2	Washer
	8	50-4607064	4	Bushing
	9	1221B-3724044B	1	Cable
	10	1221B-3703010-02	1	Container
	11	M8x30	4	Bolt
	12	1221B-3724041	1	Cable
	13	TM-59-6000-38	3	Cap
	14	54.24.445-Б	2	Cap
	15	M8	12	Nut
	16	923-3724042	1	Cable
	17	1522-3703025	1	Housing
	18	ШЧ6	4	Washer
	19	ШП6	4	Washer
	20	M6X16	2	Bolt
	21	M6	2	Nut
	22	3737.15	1	Remote 24 V battery switch
	23	M6x20	2	Bolt
	24	3703.26	2	12/120 storage battery
	25	1221B-3724075	1	Cable
	26	80B-3703020	2	Clamp
	27	1221B-3703010	1	Container
	28	ШЧ8	10	Washer
	29	1221B-3703020-01	1	Housing
	30	ШЧ8	2	Washer
	31	822-3801341-Б	1	Shield
	32	3722.55	1	Fuse block
	33	1222.4-3722001	1	Bracket
	34	920-3724368-Б	1	Cable
	35	1222.4-3724045	1	Cable

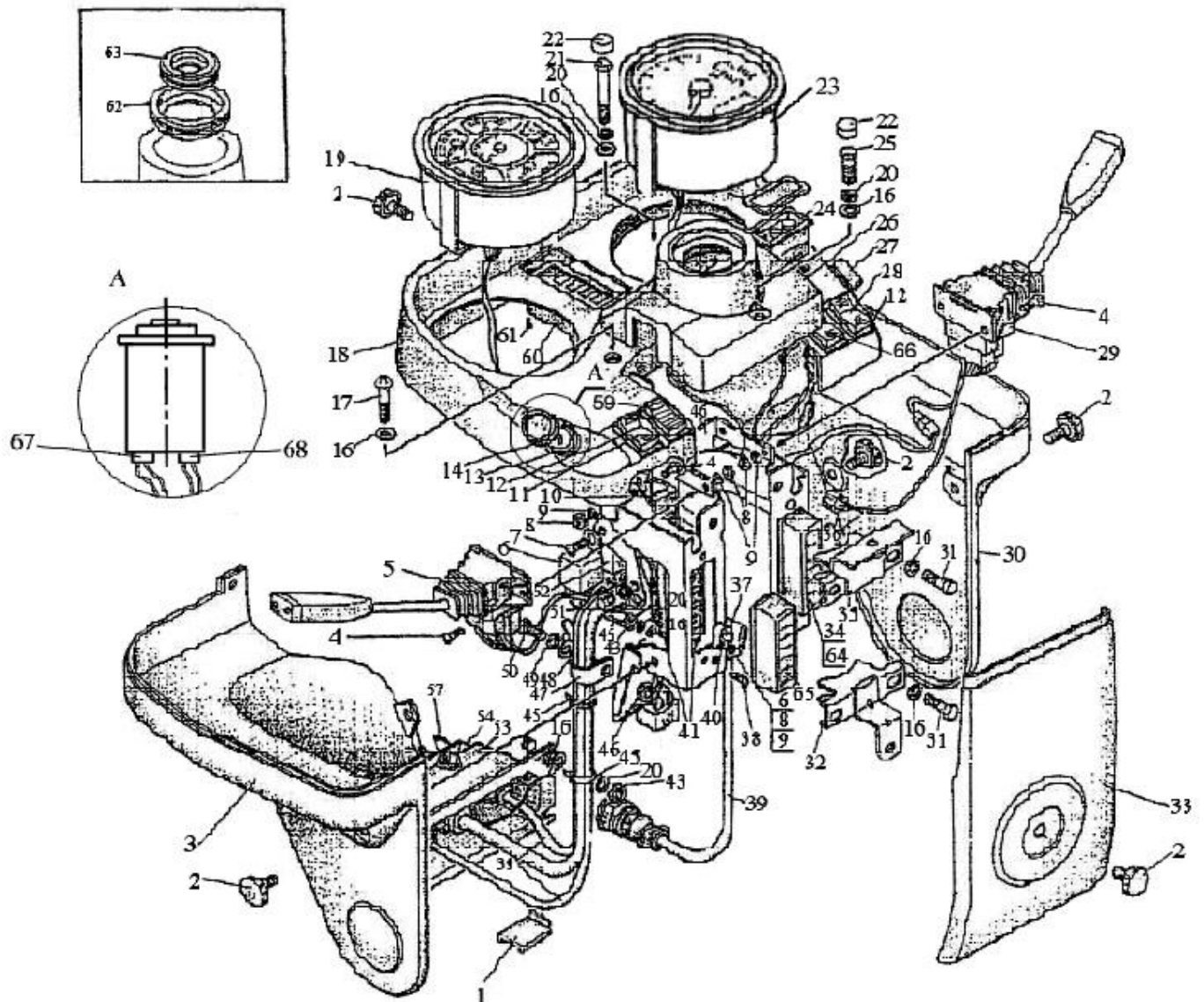


Fig. 38.1 Dashboard

**Group 38 Dashboard
Subgroup 3805. Dashboard**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
38.1	1	ПР-43-01	1	Seal
	2	80-3805065	5	Screw
	3	822-3805161	1	Side member
	4	BM5X16	6	Screw
	5	3709.145	1	Underwheel switch ПКП-1А
	6	3747.20	1	Alarm-relay
	7	BM6x16	4	Screw
	8	M5	6	Nut
	9	5T	6	Washer
	10	3747.10	1	Turn indicator flasher
	11	3710.55	1	Battery disconnect switch
	12	5336-3710015	4	Switch frame
	13	3710.15	1	Starter switch with start lock
	14	822-3805013-01	1	Instruction plate
	16	C 6.01.019	7	Washer
	17	M6X16	2	Bolt
	18	923-3805121	1	Panel
	19	3801.20	1	Instrument cluster КП-6 CAN
	20	6T	18	Washer
	21	M6x60	1	Bolt
	22	A30.04.017	2	Cap
	23	3813.35	1	Integrated indicator CAN
	24	3813.40	1	Control panel
	25	M6X16	3	Bolt
	26	822-3709124	1	Case
	27	3710.10	1	Hazard light switch
	28	3709.20	1	Dipswitch control
	29	3709.235	1	Windscreen wiper switch ПКП-3А
	30	822-3805162	1	Side member
	31	M6x25	4	Bolt
	32	822-3805095	1	Bracket
	33	822-3805163	1	Housing
	34	3722.10	1	Fuse block
	35	822-3805080-Б	1	Bracket
	36	822-3724010-Б	1	Harness
	37	70-3506027	1	Bushing
	38	BM6X20	4	Screw
	39	925.4-3724390	1	Harness
	40	80-3723043	1	Jokey
	41	3722.15	1	Fuse block
	43	M6	8	Nut
	45	80-3723045	9	Collar
	46	822-3805050	1	Base
	47	822-3723044	1	Clamp
	48	ШЧ8	1	Washer
	49	ШП8	1	Washer
	50	M8x20	1	Bolt

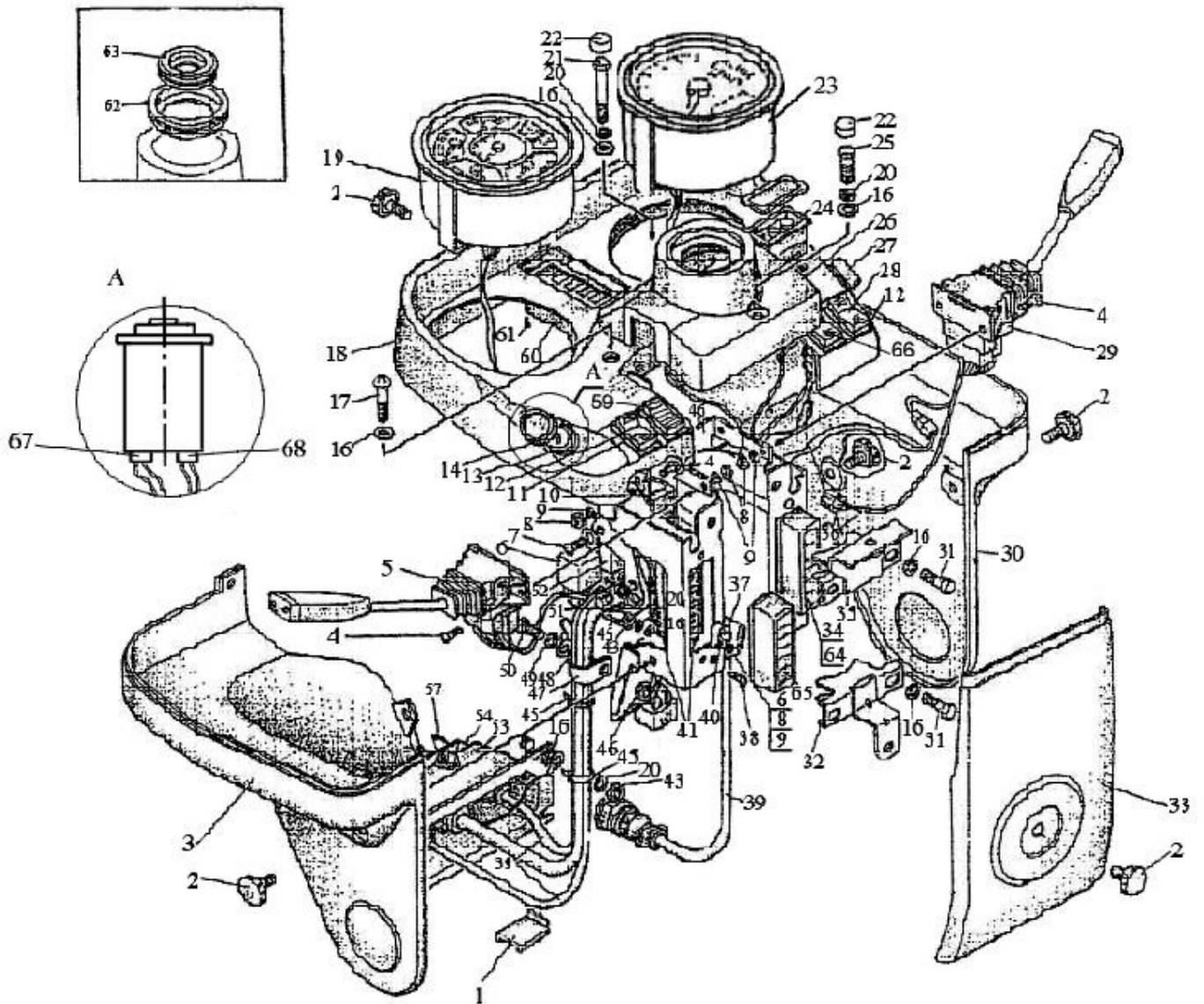


Fig. 38.1 Dashboard

Group 38 Dashboard
Subgroup 3805. Dashboard

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
38.1	51	BM6x16	1	Screw
	52	3747.50	2	Cut-in relay 30A
	53	822-3805072	1	Bracket
	54	822-3805073-B	1	Bracket
	57	4x10	4	Male screw
	59	80-3801327	1	Blind plug
	60	3803.20	1	Warning light block
	61	4x16	2	Male screw
	62	80B-3709028	1	Insert
	63	80-3723048	1	Bushing
	64	822-3805026-B	1	Instruction plate
	65	822-3805027-B	1	Instruction plate
	66	3710.30	1	Working lights switch
	67	3710.040-01	1	Socket 30-16-06570
	68	3710.040-02	1	Socket 30-16-06571

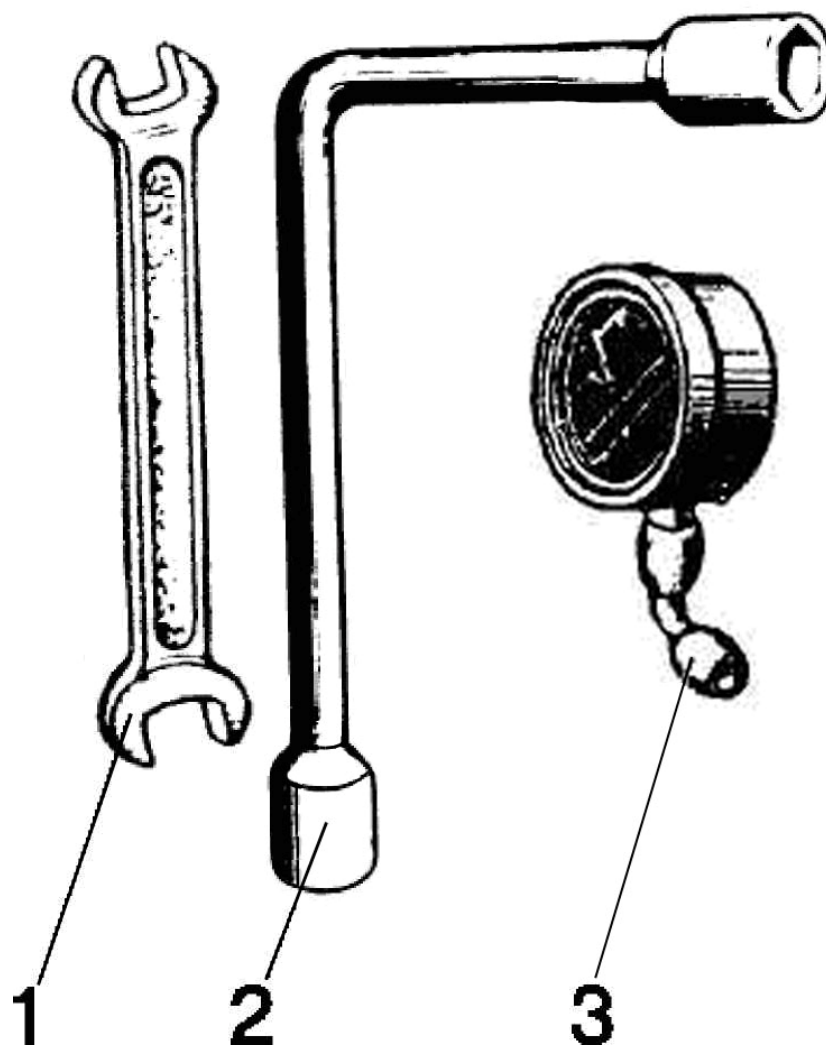


Fig. 39.1 Operator tool

Group 39. Tools and accessories
Subgroup 3901. Operator tool

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

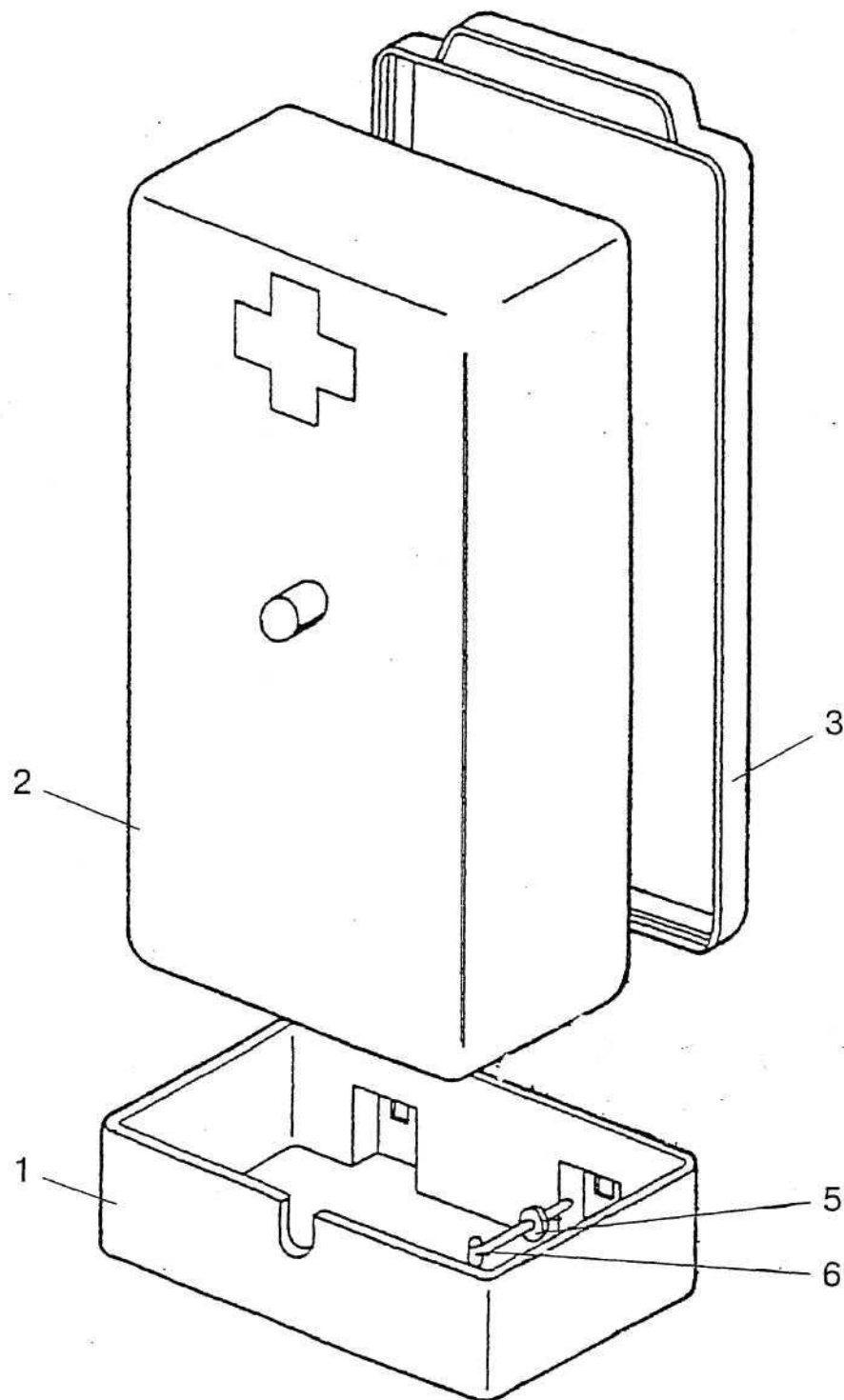


Fig. 39.2 First aid kit

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
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	C6.01.08 кп.019	2	Washer GOST 11371-78
	6	B.6-6gx20.58.019	2	Screw GOST 17473-80

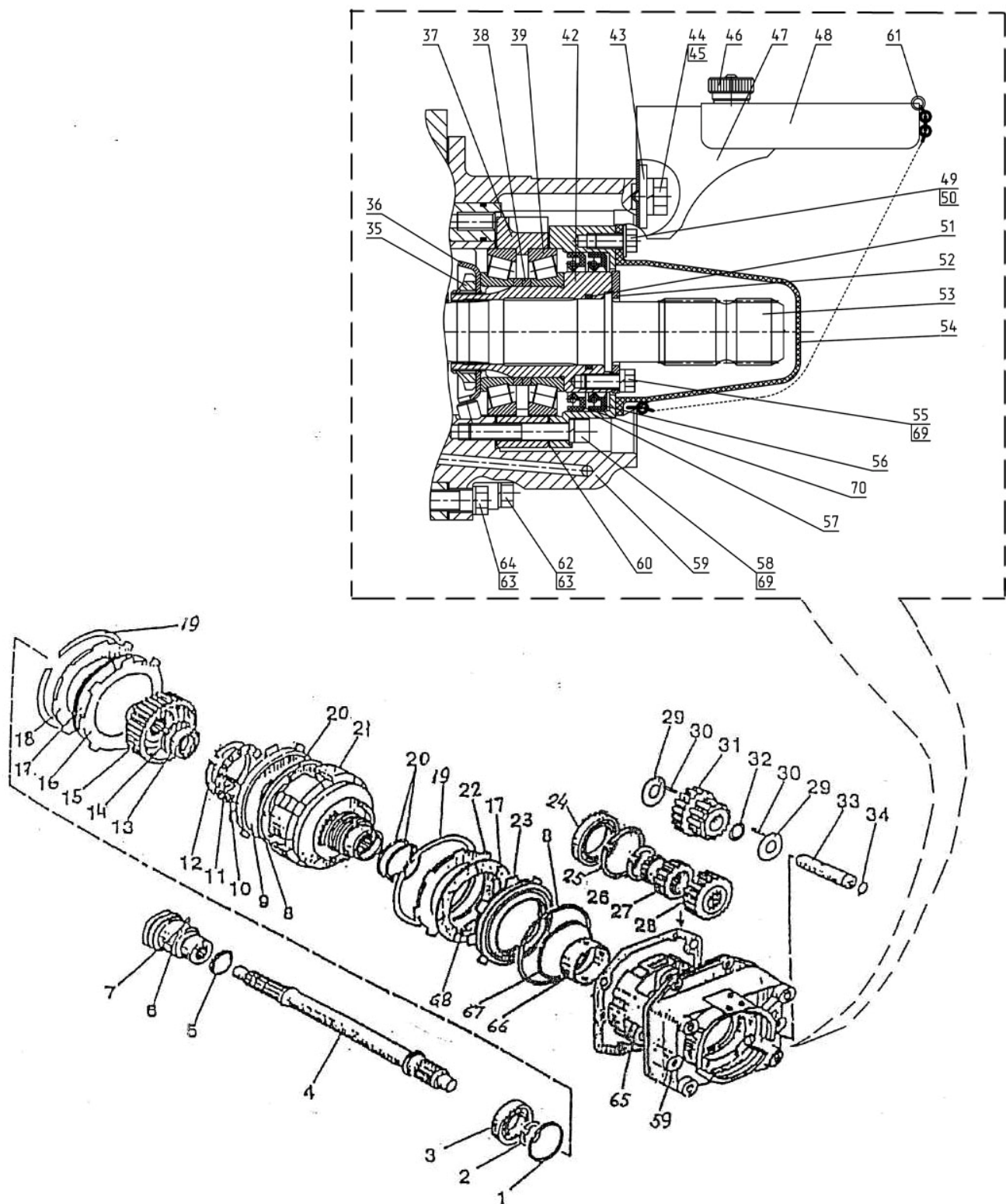


Fig. 42.1 PTO shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.1		2022-4202010-03		Rear PTO shaft (2022-4202020-03, 1522-4202060, 50-4202045-01; 1, 43-50, 54, 55, 61-65)
		1522-4202060	1	Drive shaft (2-4)
		2022-4202050	1	Bushing (35-39, 42, 51)
		50-4202045-01	1	Shift coupling (5-7)
		2022-4202070	1	Cover (56, 57, 70)
		2022-4202030-A-01	1	Friction (8-21)
	1	2C80	1	Ring
	2	C40	1	Ring
	3	208A	1	Bearing
	4	1522-4202011	1	Drive shaft
	5	A61.03.002	1	Ring
	6	50-4202046-B-01	1	Shift coupling
	7	7,938-100	1	Ball
	8	80-1701382	2	Ring
	9	80-1701374-01	1	Piston
	10	80-1701373	1	Spring support
	11	80-1701395	16	Spring
	12	C80	1	Ring
	13	305A	1	Bearing
	14	C62	1	Ring
	15	1522-4202034-A-02	1	Spline coupling
	16	LD 2220087	4	Drive disk
	17	2022-4202375 or 2522-1802035-A or 696392 AOc «MIBA»	5	Friction disk
	18	80-1701379-01	1	Thrust disk
	19	80-1701392	2	Ring
	20	142-1701381	3	Ring
	21	2022-4202031-01	1	Drum
	22	80-1701379	1	Thrust disk
	23	2022-4202033	1	Adjuster piston
	24	114	1	Bearing
	25	2C70	1	Ring
	26	2C110	1	Ring
	27	1021-4202026-BA	1	Gear
	28	1021-4202021-B	1	Gear
	29	1522-4202023	6	Thrust washer
	30	5x27,8A3	114	Roller
	31	1522-4202028-B	3	Gear
	32	1522-4202024-01	3	Bushing
	33	1522-4202022	3	Intermediate axle
	34	021-025-25-1-4	3	Ring
	35	80-1701047	1	Nut
	36	2022-4202069	1	Washer
	37	2022-4202042	1	Sleeve

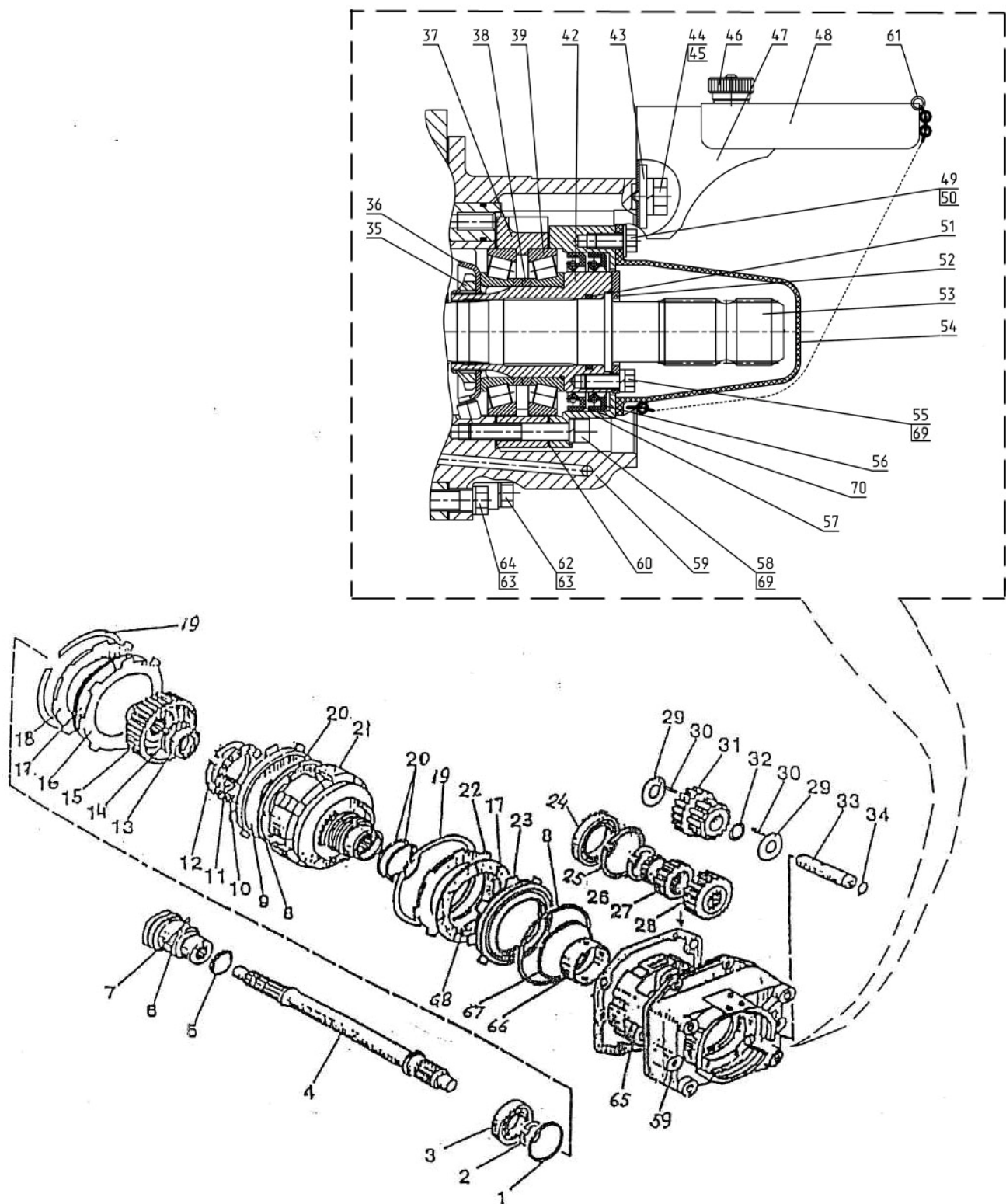
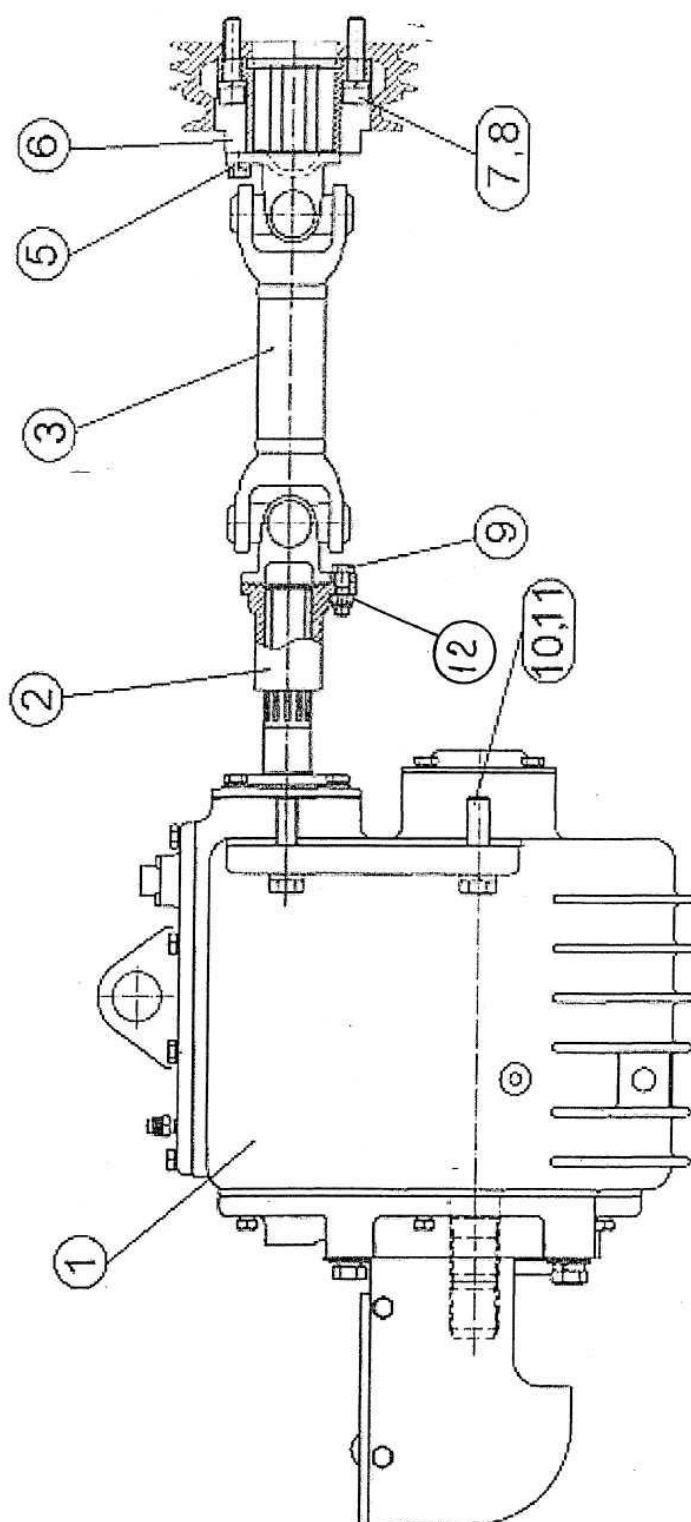


Fig. 42.1 PTO shaft

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.1	38	72-2308121*	2	Ring
		or 72-2308121-01	2	Ring
		or 72-2308121-02	2	Ring
		or 72-2308121-03	2	Ring
		or 72-2308121-04	2	Ring
		or 72-2308121-05	2	Ring
		or 72-2308121-06	2	Ring
		or 72-2308121-07	2	Ring
		or 72-2308121-08	2	Ring
		or 72-2308121-09	2	Ring
		or 72-2308121-10	2	Ring
		or 72-2308121-11	2	Ring
	39	7212A	2	Bearing
	42	2022-4202062	1	Bushing
	43	C16.01.08	2	Washer
	44	M16x25	2	Bolt
	45	16 OT	2	Washer
	46	1522-4202094	2	Handwheel
	47	2022-4202095	1	Housing
	48	2022-4202092	1	Shield
	49	M10x20	2	Bolt
	50	C10.01.019	2	Washer
	51	044-050-36-2-2	1	Ring
	52	1822-4202027	1	Thrust washer
	53	2022-4202016	1	PTO shaft end extension1C (8 splines - 540 min-1)
		2022-4202016-01	1	PTO shaft end extension1 (6 splines - 540 min-1)
		2022-4202017	1	PTO shaft end extension 3 (20 splines) -1000 min-1
		2022-4282017-01	1	PTO shaft end extension 2C (8 splines)- 1000 min-1
		2022-4202017-03		PTO shaft end extension 2C1 (6 splines)- 1000 min-1
	54	2022-4202065	1	Cap
	55	M10x25	4	Bolt
	56	2.2-80x105	1	Collar
	57	2022-4202018	1	Cover
	58	M 10x70	6	Screw
	59	2022-4202015	1	Housing
	60	2022-4202012	2	Gasket
	61	70-4235035	1	Chain
	62	M12x50	2	Bolt
	63	12 OT	6	Washer
	64	M12x40	4	Bolt
	65	1522-4202013-A	1	Gasket
	66	142-4202042	1	Bushing
	67	86-1802047	1	Ring
	68	8020-4202041	4	Spring
	69	10 OT	10	Washer
	70	1.2-80x105	1	Collar

* Selected at the bearing regulation



205

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.2		1522-4209010	1	Front PTO shaft assembly
	1	1522-4209025	1	Reduction gear unit
	2	1522-4209017	1	Flange
	3	1522-4209015-01	1	Shaft
	5		4	Washer 10 OT OST 37.001.115-75
	6	1522-4209018	1	Spacer plate
	7		6	Screw M12-6gx50.68.019 GOST 11738-84
	8		6	Washer 12 OT OST 37.001.115-75
	9	52-2203012	8	Bolt
	10		4	Bolt M16-6gx60.88.35.019 GOST 7795-70
	11		4	Washer 16 OT OST 37.001.115-75
	12		4	Nut M10x1-8DIN ENISO 10511-98

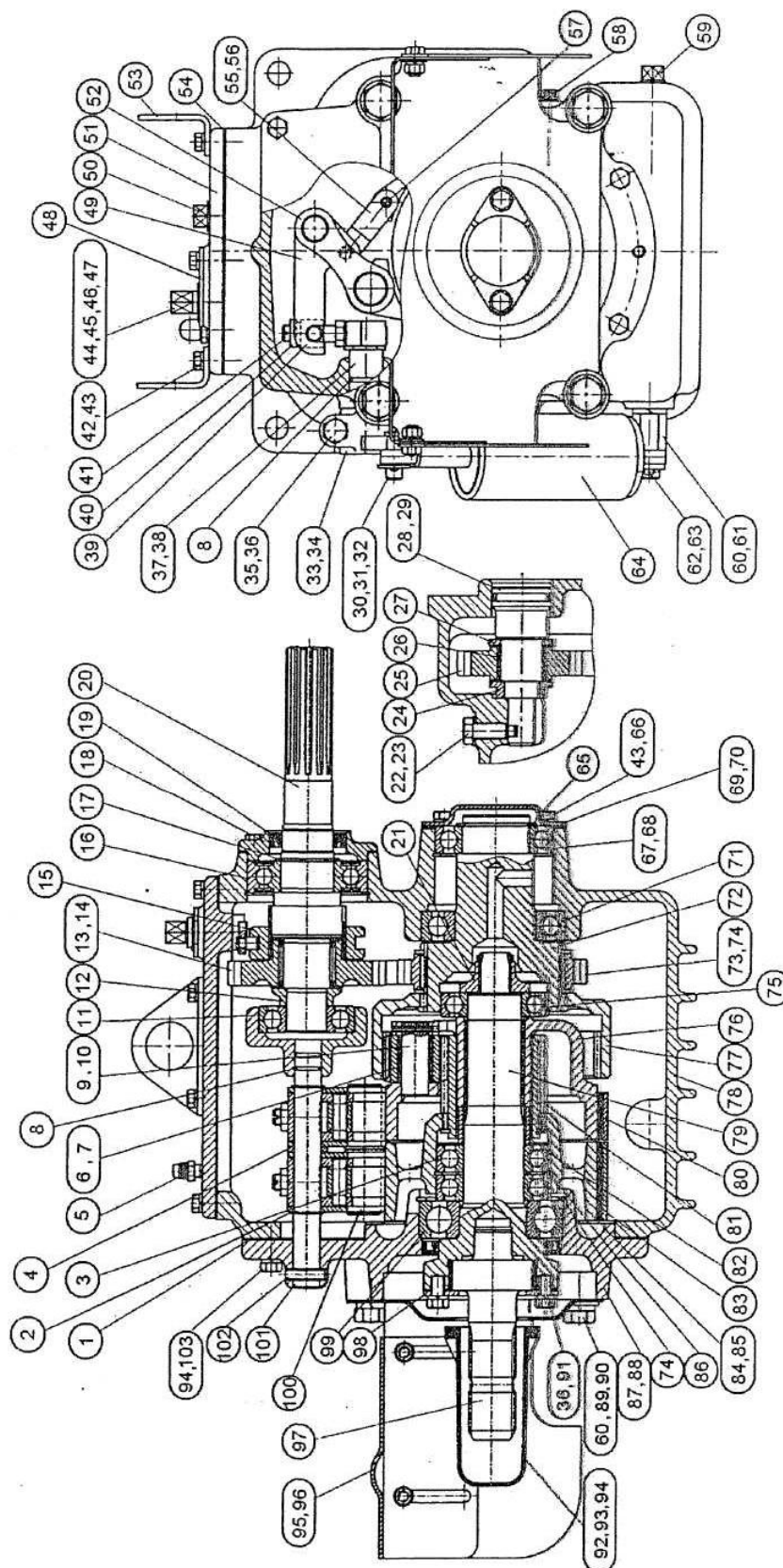


Fig. 42.3 Front PTO shaft reduction unit

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.3		1522-4209025	1	Reduction gear unit assembly
		1521-4209065	1	Lever (30, 33-34)
		1522-4209080	2	Lever (39-41,49)
		1521 -4209085	1	Lever (44-46)
	1	1521-4209042	1	Gasket
	2		2	Ring C 20 GOST 13940-86
	3		2	Bearing 209A GOST 8338-75
	4	1521-4209076	1	Bushing
	5	«MINTOR» TSSOG – 1/8"	1	Breather
	6	70-4202024	3	Satellite gear
	7		3	Bearing KK20x26x34E
	8		1	Ring 021-025-25-1-4 GOST 18829-73/GOST 9833-73
	9	70-4202026	3	Satellite gear axis
	10		3	Pin 4x30.65Г
	11		1	Bearing 6-180306A1 YC 23 GOST 8882-75
	12	1521-4209031	1	Washer
	13	1521-4209028	1	Gear
	14		2	Bearing 464607E
	15	1521-4209029	1	Bushing
	16		1	Bearing 180308AC23 GOST 8882-75
	17		1	Ring 2C 40 GOST 13940-86
	18	1522-4209061	1	Cover
	19		1	Collar 2.2-38x58-1 GOST 8752-79
	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		1	Bearing 3KK35x43x35E
	27	1521-4209036	1	Washer
	28	1521-4209032	1	Axis
	29		1	Ring 038-046-46-1-4 GOST 18829-73/GOST 9833-73
	30		1	Pin 12x32 OST 37.001.163-75

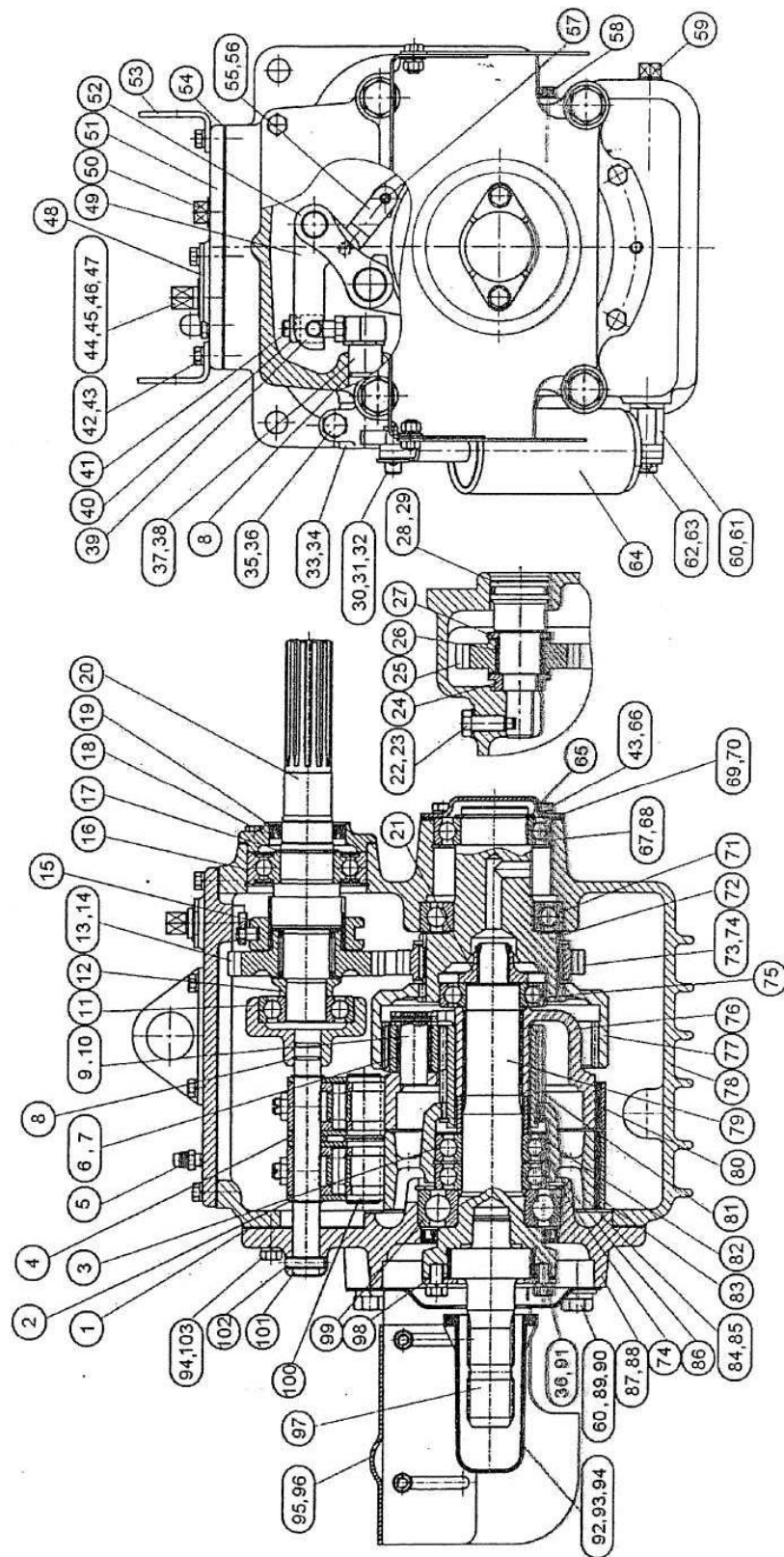


Fig. 42.3 Front PTO shaft reduction unit

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.3	31		1	Forelock 3,2x18.019 GOST 397-79
	32			Washer C12.01.019 GOST 11371-78
	33	50-3503063	1	Hub
	34	1521-4209066	1	Plate
	35		1	Bolt M12-6gx35.88.35.019 GOST 7796-70
	36		1	Washer 12 OT OST 37.001.115-75
	37	1521-4209040	1	Lever
	38	CШ6x11	1	Key
	39	1522-4209084	2	Nut
	40	1522-4209082	2	Pin
	41	1522-4209083	2	Screw
	42		14	Bolt M8-6gx25.88.35.019 GOST 7796-70
	43		18	Washer 8 T OST 37.001.115-75
	44	1521-4209086	1	Shaft
	45	1521-4209087	1	Plate
	46	70-1601114	1	Pin
	47		1	Ring 017-022-30-1-4 GOST 18829-73/GOST 9833-73
	48	1521-4209056	1	Plate
	49	1521-4209081	2	Lever
	50	ПК КГ 3/4"	1	Plug
	51	1522-4209057	1	Cover
	52	2522-4209149	4	Stabilizer
	53	80-4608073	2	Bracket
	54	1522-4209041	1	Gasket
	55	1521-4209078	2	Stabilizer
	56		1	Pin 2.10x35.019 Ц9 xp. GOST 3128-70
	57	ШЦК8x36	1	Pin
	58		1	Plug КГ 1/8" A 12.019 TU 23.1.506-91
	59	ПК КГ 3/8"	1	Plug
	60		5	Washer 16 OT OST 37.001.115-75
	61	1521-4209037	1	Bolt
	62		1	Forelock 4x36.019 GOST 397-79
	63		1	Washer C16.01.019 GOST 11371-78
	64	80-4216100	1	Cylinder
	65		2	Ring 2C 50 GOST 13940-86
	66		4	Bolt M8-6gx20.88.35.019 GOST 7796-70
	67		1	Bearing 210AYШ1 GOST 8338-75
	68		2	Rings 2C 90 GOST 13941-86
	69	1521-4209038	1	Cover

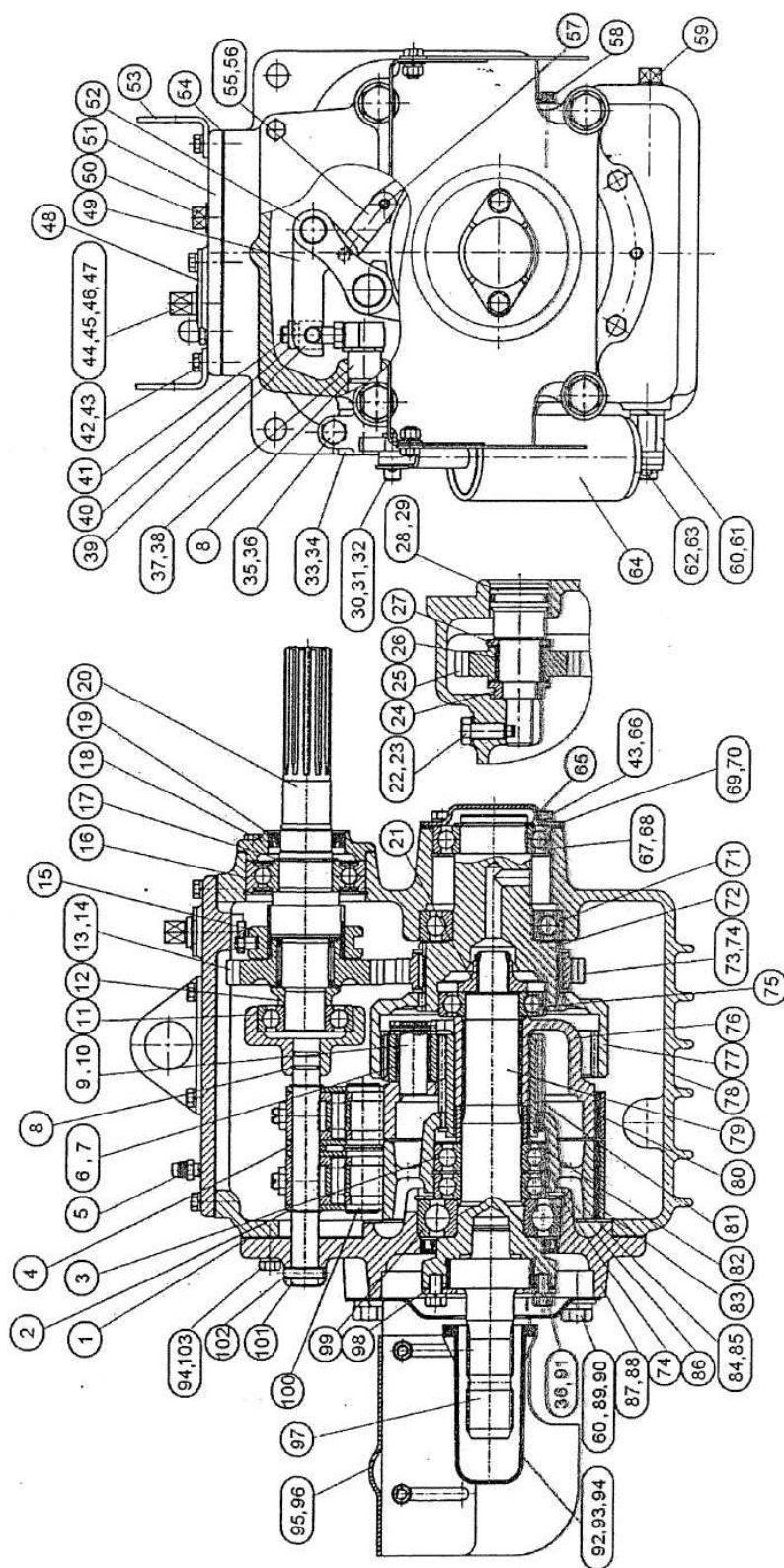


Fig. 42.3 Front PTO shaft reduction unit

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.3	70	1521-4209039	2	Gasket
	71		1	Bearing 212AYШ1 GOST 8338-75
	72	1522-4209046	1	Shaft
	73	1521-4209047	1	Gear
	74		3	Ring 2C 110 GOST 13941 -86
	75		1	Bearing 208A GOST 8338-75
	76	85-4202065	1	Pinion cage
	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 2C 68 GOST 13940-86
	86		1	Ring 2C 85 GOST 13940-86
	87	1521-4209071	1	Cover
	88		1	Collar 2.2-80X 105-1 GOST 8752-79
	89		4	Bolt M16-6dx32.88.35.019 GOST 7796-70
	90		2	Washer C16.01.019 GOST 6958-78
	91		7	Bolt M10-6gx18.88.35.019 GOST 7796-70
	92	50-4202065-A	1	Cap
	93		2	Bolt M8-6gx16.88.35.019 GOST 7796-70
	94		11	Washer 10 OT OST 37.001.115-75
	95	Ø70-4202140	1	Guard
	96		4	Washer C8.01.019 GOST 11371 -78
	97	80-4202019-B-02	1	Shaft end extension
	98	80-4202081-A	1	Plate
	99		1	Bearing 60310A GOST 8882-75
	100	2522-4209148	2	Pin
	101	1521-4209072	1	Axis
	102		1	Pin A8x30.65Г Chemical. Phosphate. Oil impregnated GOST 14229-93
	103		6	Bolt M10-6gx25.88.35.019 GOST 7796-70

213

Group 42 Power take-off (PTO)
Subgroup 4218. Control of rear PTO shaft hydraulic drive

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.4		1822-4218105	1	Switch(12-16),(19-21)
	1	2022-4218030	2	Pipe line
	2	Clamp NORMA TORRO 12-22/971 or «NORMA» TORRO 12-20/9-C6W	7	Clamp
	3	85-3407470	5	Union body
	4	A29.66.000-B	1	Pneumatic adapter
	6	M10	2	Nut
	7	10OT	2	Washer
	9	1522-4216011	1	Bracket
	10	M10x30	2	Bolt
	11	6x18	1	Pin
	12	1822-4218116	1	Shaft
	13	50-1702148-A	1	Spring
	14	A10x40	1	Pin
	15	A8x30	1	Pin
	16	1822-4218117	1	Base
	19	1822-4218121	1	Handle
	20	M8	1	Nut
	21	1822-4218115	1	Handle
	22	1,6x12	1	Forelock
	23	80B-1108542-01 or 80B-1108542-A-01	1	Tip
	24	M 6	2	Nut
	25	23.588.1.1.2.00.01-02 or 772-L-IT-75-1250 or 100.M4322.01250	1	Rope L=1250
	26	1523-4218122	1	Joke
	27	240-1111103	1	Turning angle joint bolt
	28	1522-4218110-01	1	Rod
	29	1221-2412026-05	1	Hose
	30	Д18-055-A or PM 14	3 3	O-ring Washer
	31	2022-4218026-02	1	Hose
	32	M6x40	2	Bolt
	33	6T	2	Washer
	34	8x22	1	Pin
	35	3,2x25	1	Forelock
	36	85-4216115	1	Cock
	37	M8x20	3	Bolt
	38	8T	6	Washer
	39	1223-4218041	1	Bracket
	40	1522-4218002	1	Gasket
	41	2022-4218026-01	1	Hose
	42	M8x25	3	Bolt
	43	2022-4218025	1	Flange
	44	2522-4218002	1	Gasket
	45	1522-4218114	1	Joke
	46	1223-4218031	1	Hose

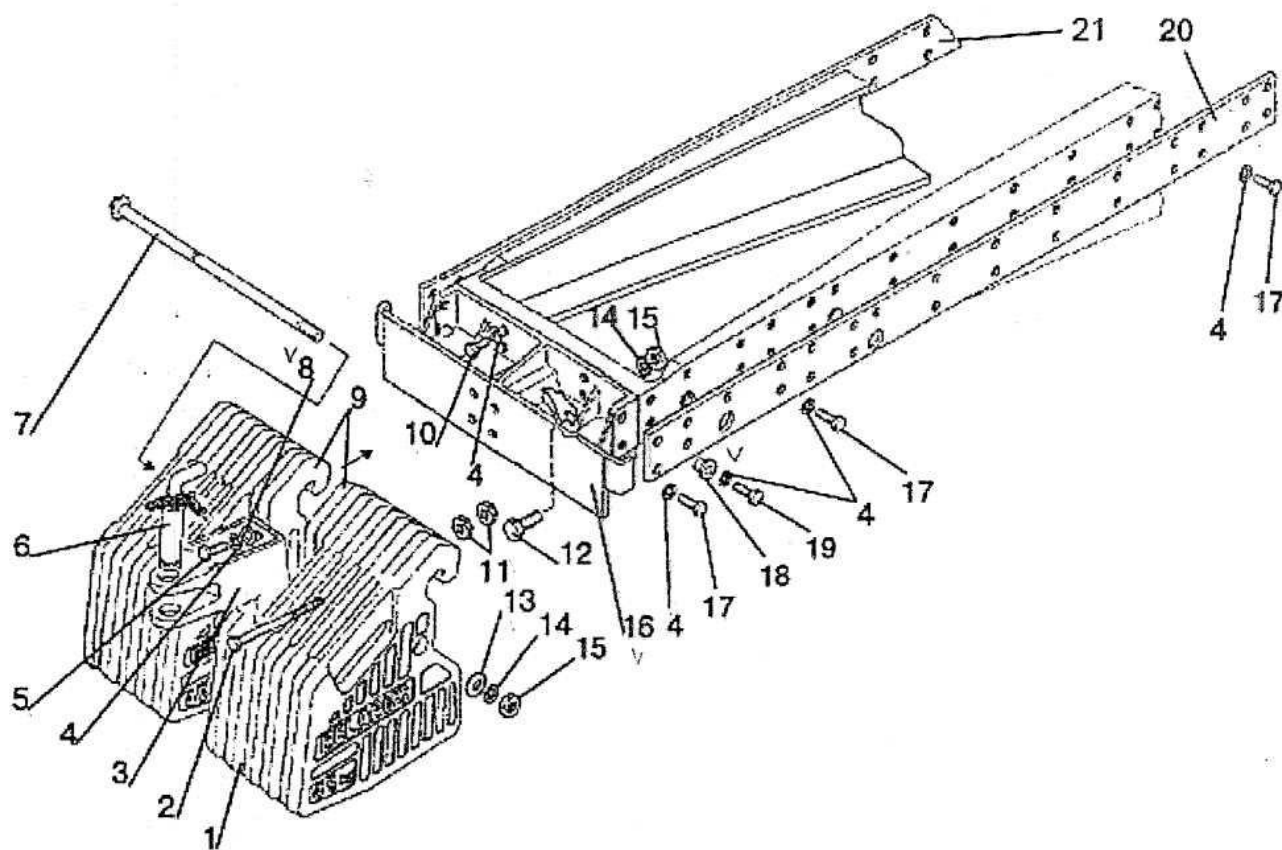


Fig. 42.5 Ballast

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.5	1	80-4235011-A	8	Ballast weight 45 kg
	2	1025-4235012	2	Bolt
	3	85-4235025-B	1	Ear
	4	ШП16	46	Washer
	5	M16x45	2	Bolt
	6	70-4235030	1	Kingpin
	7	1025-4235015-01	1	String
	8	ШЧ16	2	Washer
	9	1521-4235011-A	2	Ballast weight 40 kg
	10	M16x40	4	Bolt
	11	M18	4	Nut
	12	70-4605036	2	Bolt
	13	40-3502084	1	Washer
	14	ШП20	3	Washer
	15	M20	3	Nut
	16	1521-4235020	1	Bracket
	17	M16x50	38	Bolt
	18	1521-4535029	2	Bushing
	19	M16x60	2	Bolt
	20	1222-4235012	1	Left plate
	21	1222-4235013	1	Right plate

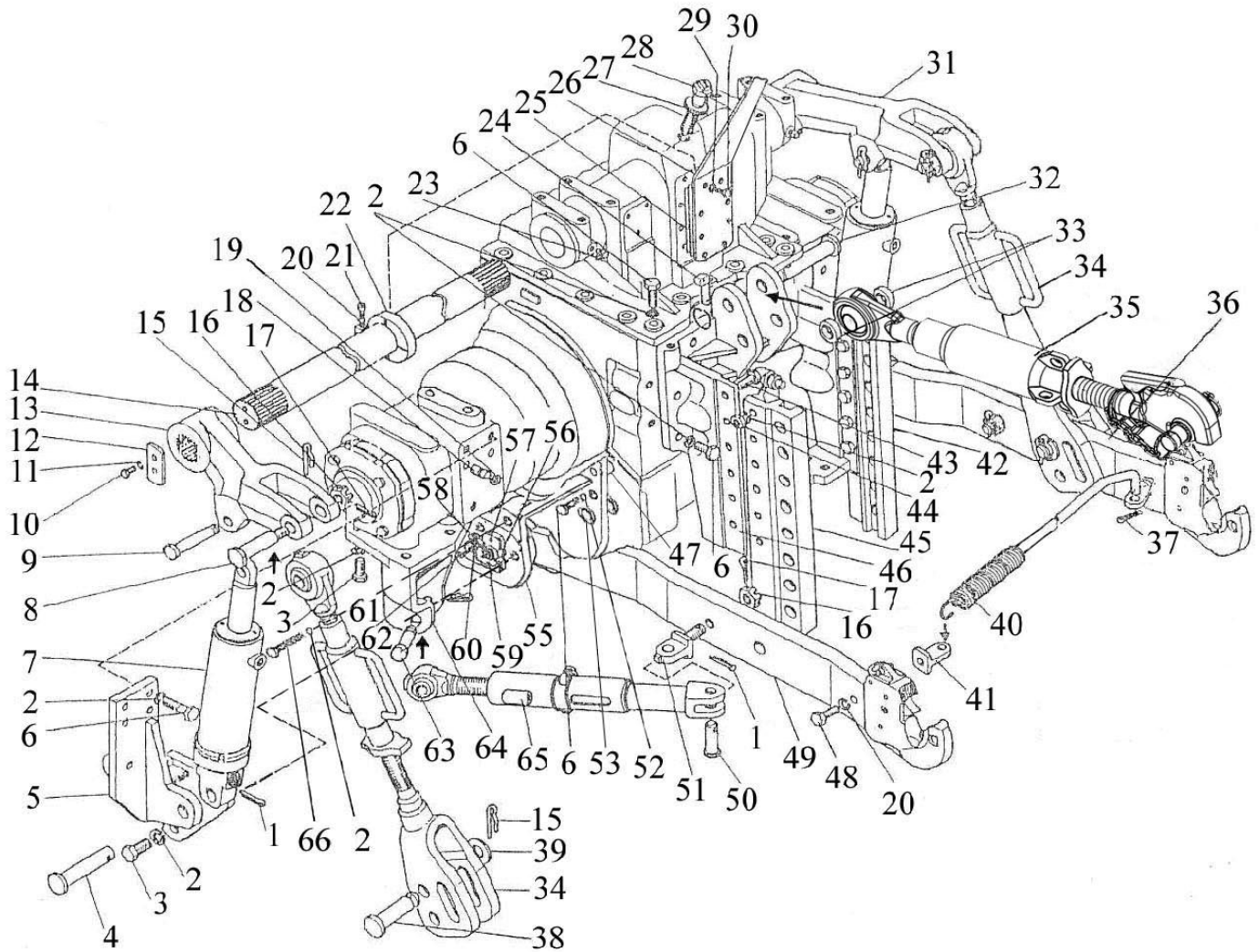


Fig. 46.1 Lift linkage

Group 46. Hydraulic system
Subgroup 4605. Lift linkage

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.1	1	6,3x50	4	Forelock
	2	ШП 20	30	Washer
	3	680-2707024	12	Bolt
	4	1522-4605009	2	Pin
	5	2022-4605016-A1 2022-4605016-A1-01	1 1	Left bracket Right bracket
	6	70-4605036	24	Bolt
	7	4600.06	2	Cylinder L90x50x250
	8	1522-4605008	2	Pin
	9	1522-4605037	2	Pin
	10	M12x25	4	Bolt
	11	ШП 12	4	Washer
	12	1522-4605024	2	Washer
	13	1522-4605021	1	Left lever
	14	1522-4605023	1	Shaft
	15	A61.07.001	6	Forelock
	16	A04.02.020	4	Nut
	17	6,3x36	4	Forelock
	18	50-4605027	4	Pin
	19	54.38.619	4	Lock ring
	20	ШП 10	7	Washer
	21	M10x45	1	Screw
	22	1522-4605025	1	Eccentric control cam
	23	1.3L9x.p.	2	Oiler
	24	A61.05.100-05	1	Chock
	25	1522-2401028	1	Gasket
	26	1522-4605170	1	Bracket
	27	1522-4605170	1	Nut
	28	Bosch R917001941	1	Position sensor
	29	ШП 8	8	Washer
	30	M8x25	8	Bolt
	31	1522-4605021-01	1	Right lever
	32	1522-4605036	1	Pin
	33	1522-4605091	2	Bushing
	34	1522-4605060	2	Lifting rod
	35	1522-4605090-B	1	Top link
	36	1522-4605030	1	Draft link
	37	3,2x25	1	Forelock
	38	1522-4605033	2	Pin
	39	1522-4605032	2	Washer
	40	090243	1	Bar bell
	41	1522-4605038	2	Ear
	42	2022-2707062	1	Left guide
	43	1522-2707149-01	12	Bolt
	44	M20x1,5	12	Nut
	45	2022-2707062-01	1	Right guide
	46	1522-2707061-B	1	Bracket
	47	1220-4605507	2	Pin
	48	M10x50	2	Bolt
	49	1522-4605035	1	Draft link
	50	1522-4605121	2	Pin

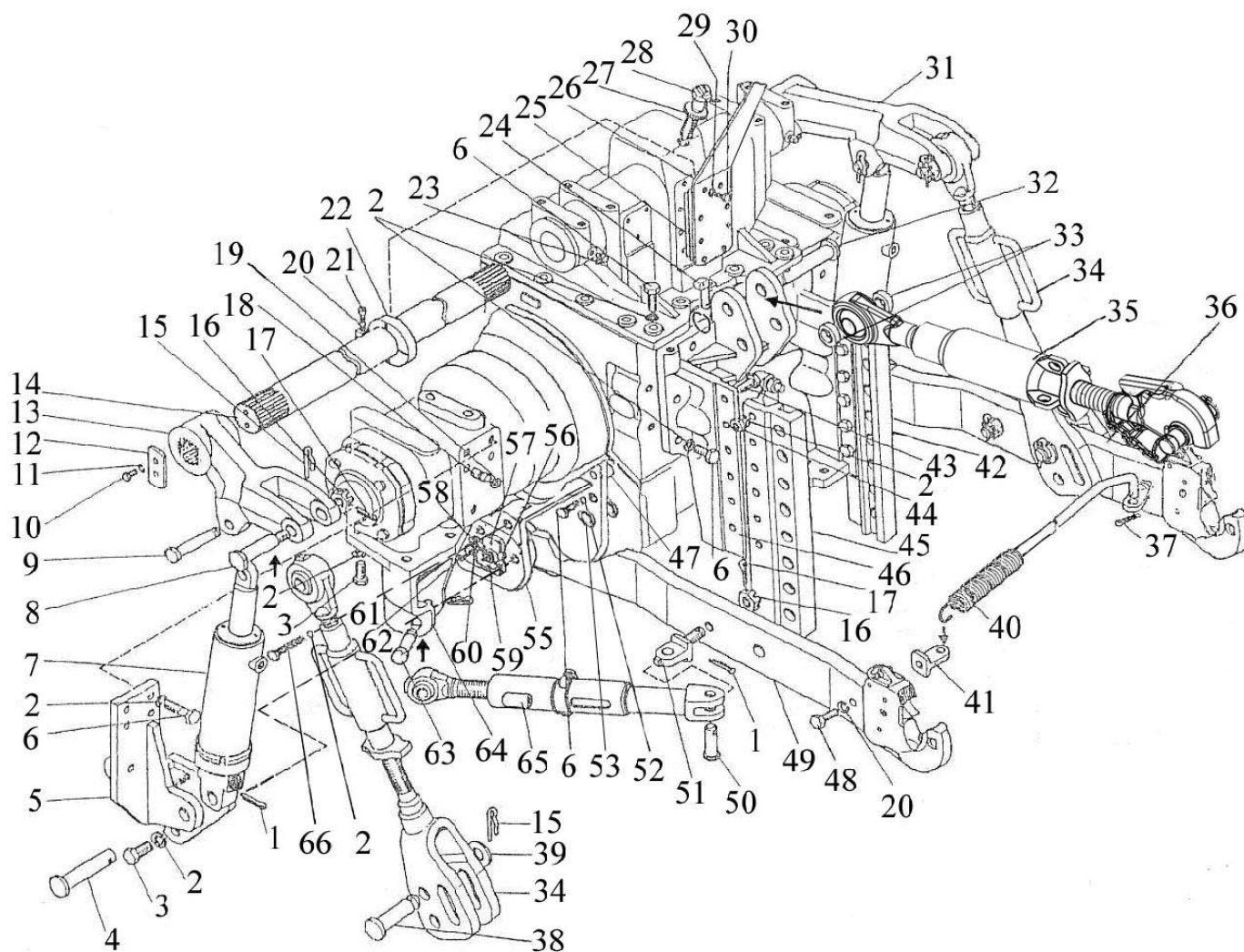


Fig. 46.1 Lift linkage

Group 46. Hydraulic system
Subgroup 4605. Lift linkage

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.1	51	1522-4605034	2	Ear
	52	ШП 16	8	Washer
	53	1522-4605039	2	Bushing
	55	2022-4605011-A	1	Left bracket
		2022-4605011-A-01	1	Right bracket
	56	1522-4605701	2	Joke
	57	1522-4605702	4	Bushing
	58	Bosch R91700165	2	Force sensor
	59	1522-4605006	2	Cover
	60	70-3723042-01	2	Bushing
	61	ШЧ 10	4	Washer
	62	BM10x35	4	Screw
	63	1220-4605084-01	2	Pin
	64	2022-4605012	1	Left bracket
		2022-4605012-01	1	Right bracket
	65	1522-4605120	2	Stabilizer
	66	2022-4605028	2	Bolt

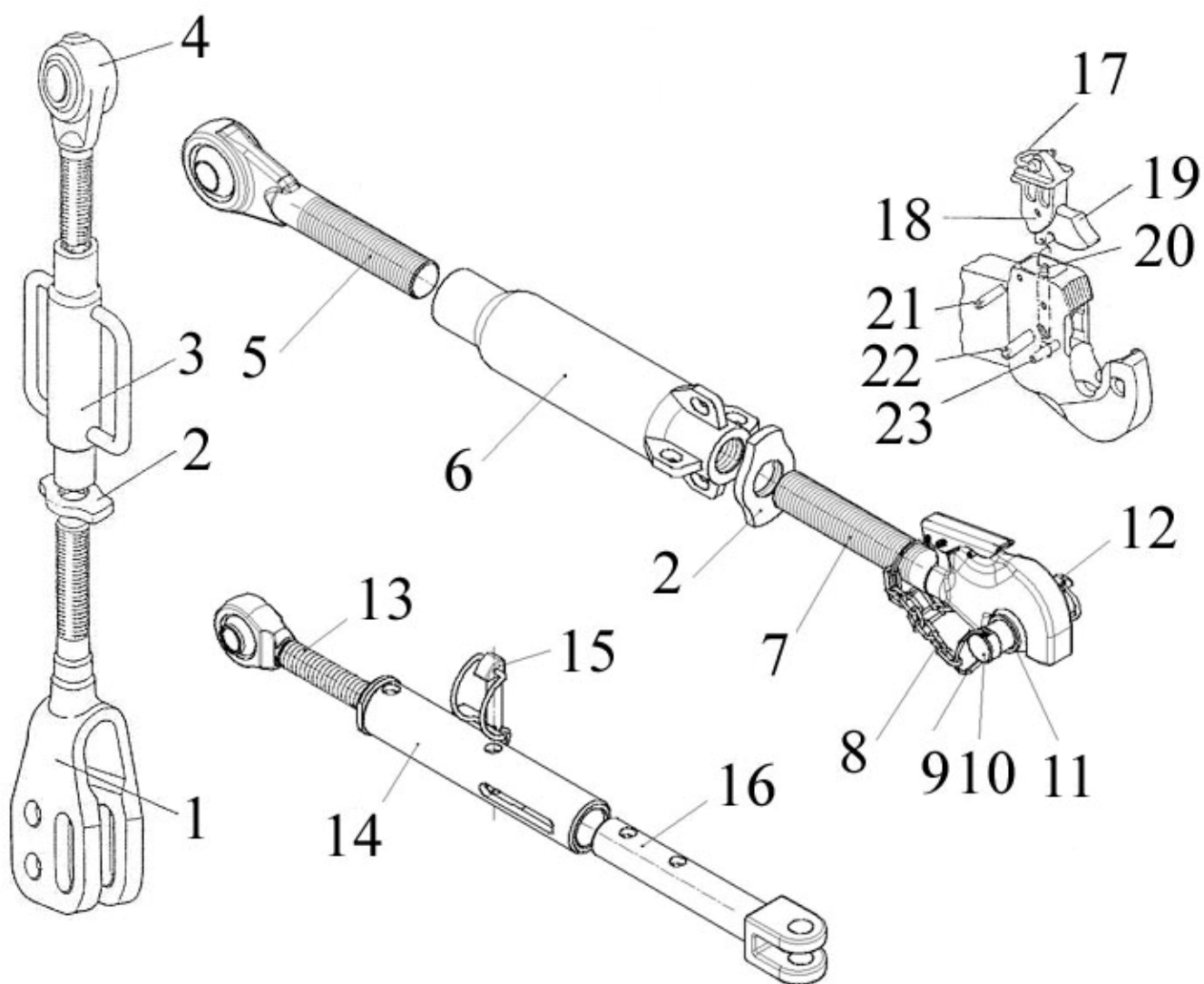


Fig. 46.2 Lift linkage parts and units

Group 46. Hydraulic system
Subgroup 4605. Lift linkage parts and units

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.2		1522-4605060		Lifting rod (1-4)
	1	1522-4605080	1	Yoke
	2	1522-4605071	1	Lock nut
	3	1522-4605075	1	Pipe
	4	1522-4605065	1	Screw
		1522-4605090-B		Top link (5-12)
	5	1522-4605065-01	1	Screw
	6	3022-4606215	1	Pipe
	2	1522-4605071	1	Lock nut
	7	1522-4605100	1	Grip
	8	A61.08.001	1	Chain
	9	A61.03.002	1	Ring
	10	1220-4605593	1	Pin
	11	W1522-4605556	1	Hinge
	12	A61.05.100	1	Chock
		1522-4605120		Stabilizer (13-16)
	13	1522-4605125	1	Screw
	14	1522-4605130	1	Guide
	15	1522-4605140	1	Chock
	16	1522-4605035	1	Sliding block
		574935	1	Lower grip 204592 3 cat. (17-23)
	17	200030	1	Detent handle
	18	309928	1	Pin 8x18
	19	309758	1	Detent latch
	20	308524	1	Spring
	21	308520	1	Pin 10x36
	22	099598	1	Pin 13x36
	23	099435	1	Pin 6x32

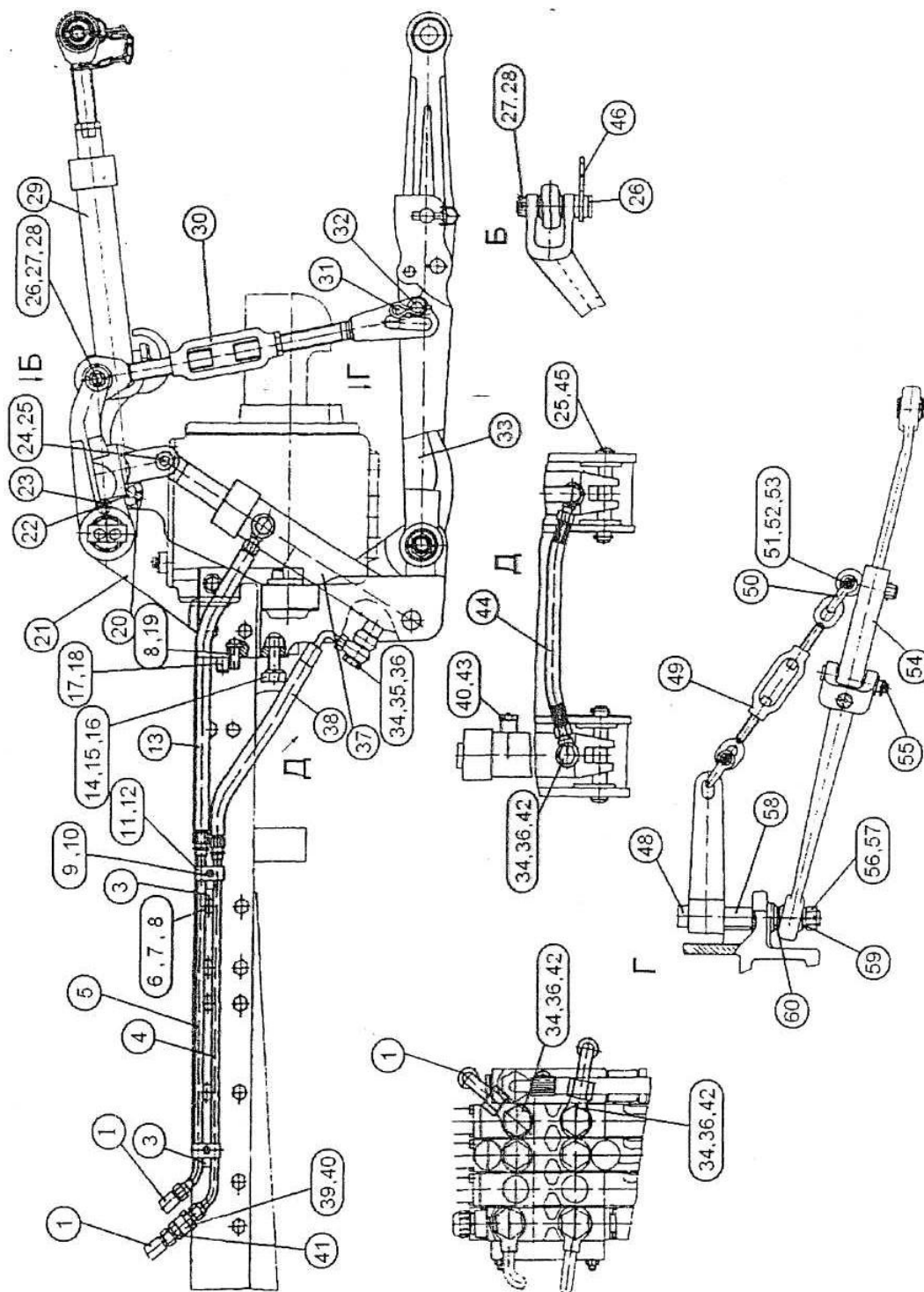


Fig. 46.3 Front lift linkage

Group 46. Hydraulic system
Subgroup 4606. Front lift linkage

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.3	1	680-4607140-07	2	High pressure hose Ø10x1 armoured
	3	80-4607554	2	Bracket
	4	1522-4606550-01	1	Pipe
	5	1522-4606550	1	Pipe
	6	M16-6gx50.88.35.019 GOST 7796-70	2	Bolt
	7	M16-6H.6.019 GOST 5915-70	1	Nut
	8	16 OT OST 37.001.115-75	10	Washer
	9	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	10	8T OST 37.001.115-75	2	Washer
	11	70-3407146	2	Plate
	12	70-3506027	4	Bushing
	13	H.036.83.140	1	High pressure hose Ø12,5x2 armoured
	14	70-4605036	2	Bolt
	15	M20-6H.6.019 GOST 5915-70	2	Nut
	16	20 OT OST 37.001.115-75	2	Washer
	17	50-4605027	4	Pin
	18	54.38.619	4	Lock ring
	19	M16-6gx45.88.35.019 GOST 7796-70	8	Bolt
	20	A.8X45.65Г GOST 14229-93	1	Pin
	21	1220-4606110	1	Bracket
	22	1220-4606014	1	Axis
	23	1.3.Л9.xp GOST 19853-74	2	Oiler
	24	680-4605037	2	Pin
	25	5x36.019 GOST 397-79	4	Forelock
	26	50-4605076	2	Pin
	27	70-3003032	2	Nut
	28	4x36.019 GOST 397-79	2	Forelock
	29	1220-4606040-A	1	Upper link
	30	1220-4506150	2	Lifting rod
	31	A61.07.001	2	Forelock
	32	C18.01.08кп.019 GOST 11371-78	2	Washer
	33	50-4605030-A3-03	1	Rod
	34	40-4607038-A	11	Washer
	35	C80-4607332	1	Bolt
	36	530-4614029	6	Elbow
	37	КГЦ 265.63-40-200	2	Hydraulic cylinder Ц63x40x200
	38	680-4607140-05	1	High pressure hose Ø10 x1 armoured
	39	K1221-4607023	1	Union body
	40	017-022-30-1-4 GOST 18829-73/9833-73	1	Ring
	41	H.036.65.000 A2-02	1	Reduction valve
	42	40-4607032	4	Clamp bolt
	43	H.036.77.000	1	Breather
	44	ПН.036.83.010	1	High pressure hose Ø10x1 armoured
	45	680-4605037-01	2	Pin
	46	1220-4606090	1	Detent
	48	50-4605018-B	1	Bushing
	49	50-4605115	2	Stabilizer
	50	A.61.09.002	2	Clip
	51	50-4605086	2	Bolt
	52	M12-6H.04.019 GOST 5919-73	2	Nut
	53	3,2x18.019 GOST 397-79	2	Forelock
	54	50-4605035-A3-03	1	Rod

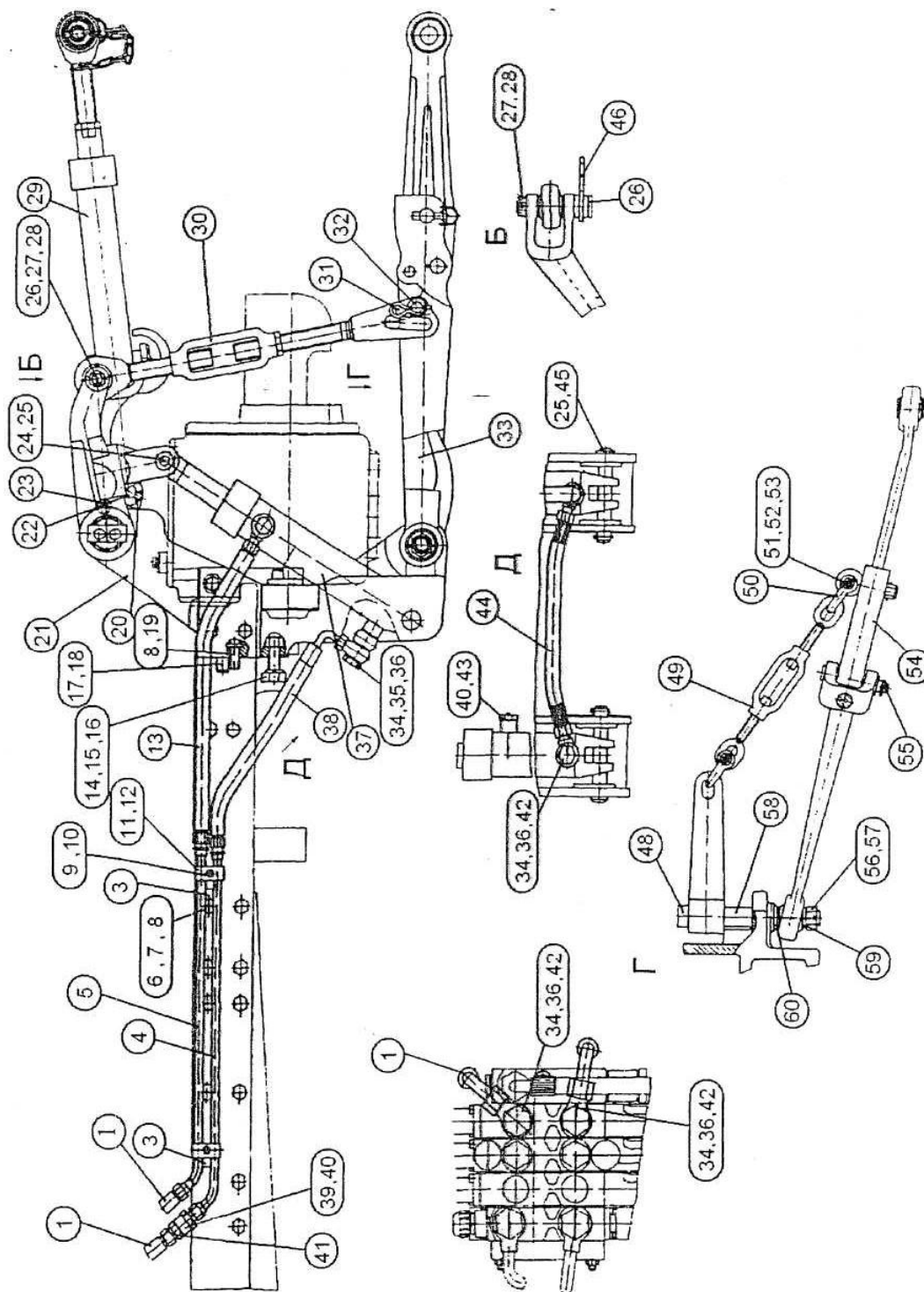


Fig. 46.3 Front lift linkage

Group 46. Hydraulic system
Subgroup 4606. Front lift linkage

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.3	55	Φ50-4605084	2	Pin
	56	A04.02.020	2	Nut
	57	5x45.019 GOST 397-79	2	Forelock
	58	70-4605026	1	Axis
	59	70-4605047	2	Bushing
	60	50-4605068-B1	2	Washer

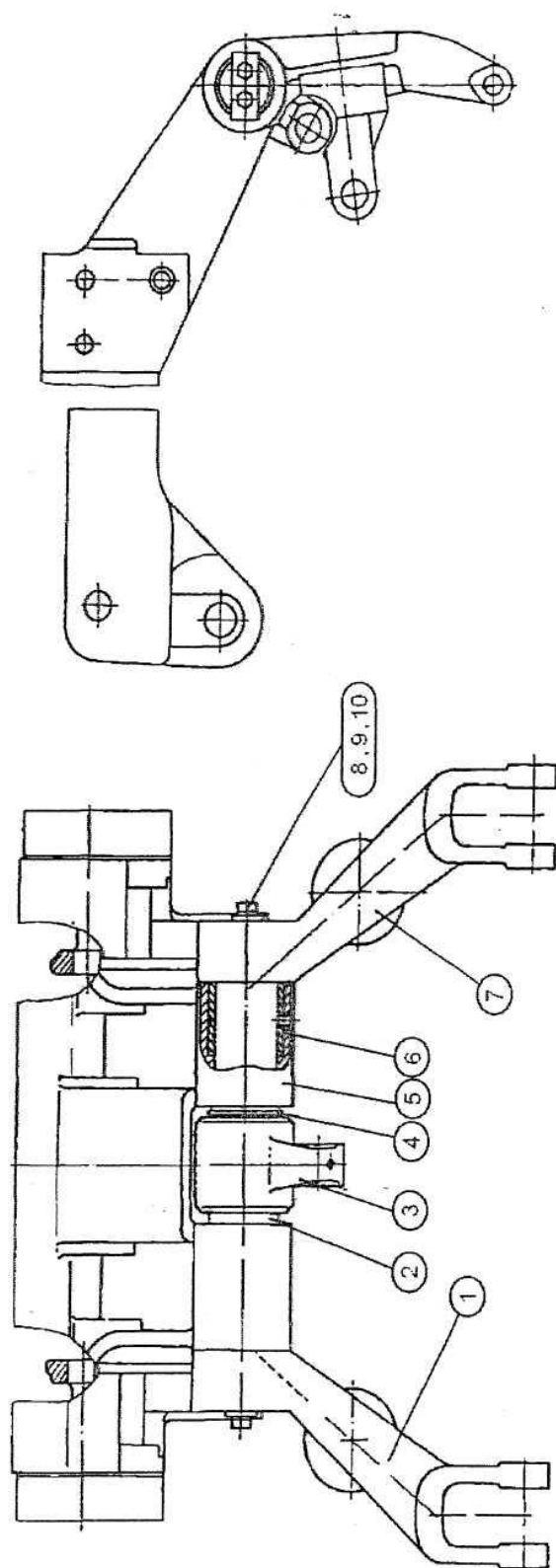


Fig. 46.4. Bracket

Group 46. Hydraulic system
Subgroup 4606. Front lift linkage parts and units

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.4		1220-4606110	1	Bracket (1-10)
	1	1220-4606020	1	Lever
	2	70-4605023	1	Shaft
	3	1220-4606013	1	Lever
	4	2C65 GOST 13940-86	1	Ring
	5	12204606011	1	Bracket
	6	70-4605032	2	Bushing
	7	1220-4606020-01	1	Lever
	8	12 OT OST 37.001.115-75	4	Washer
	9	M12-6gx25.88.35.019 GOST 7796-70	4	Bolt
	10	40-4605023-A2	2	Washer

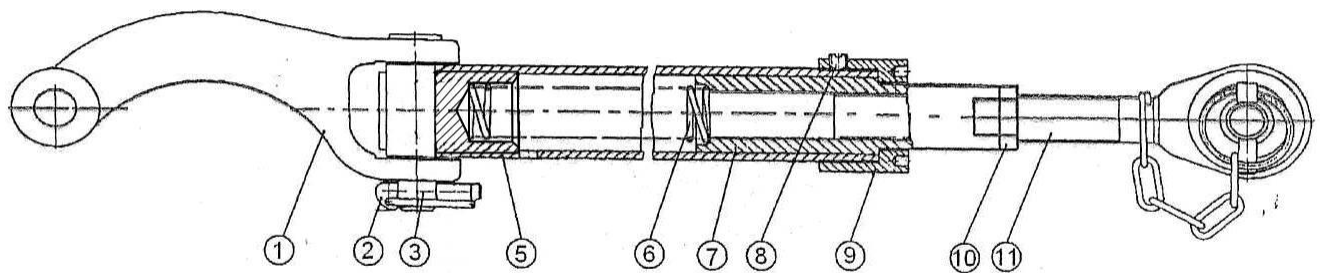


Fig. 46.5. Upper link

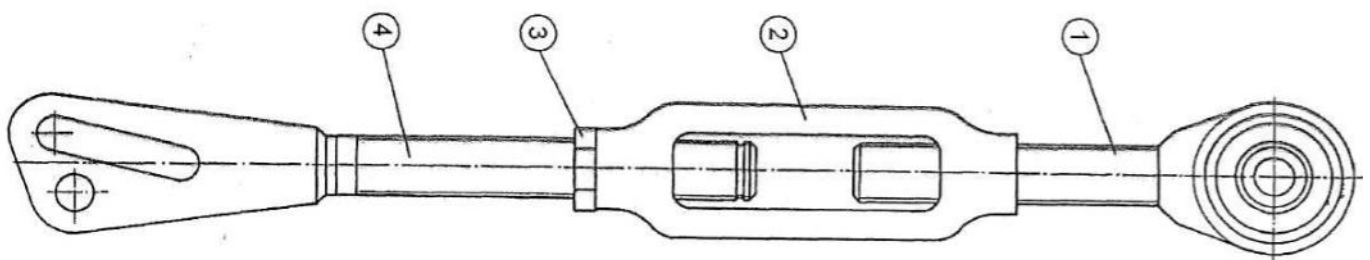


Fig. 46.6. Lifting rod

Group 46. Hydraulic system
Subgroup 4606. Front lift linkage parts and units

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.5		1220-4606040-A	1	Rod (1-11)
	1	1220-4606042	1	Clip
	2	A61.05.100-05	1	Chock
	3	A61.10.001-02	1	Pin
	5	2822-4606050	1	Pipe
	6	1220-4606043	1	Spring
	7	2822-4606041	1	Sliding block
	8	1220-4606046	1	Screw
	9	1220-4606044	1	Nut
	10	A61.02.003	1	Lock nut
	11	A61.03.200-01	1	Screw

Group 46. Hydraulic system
Subgroup 4606. Front lift linkage parts and units

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

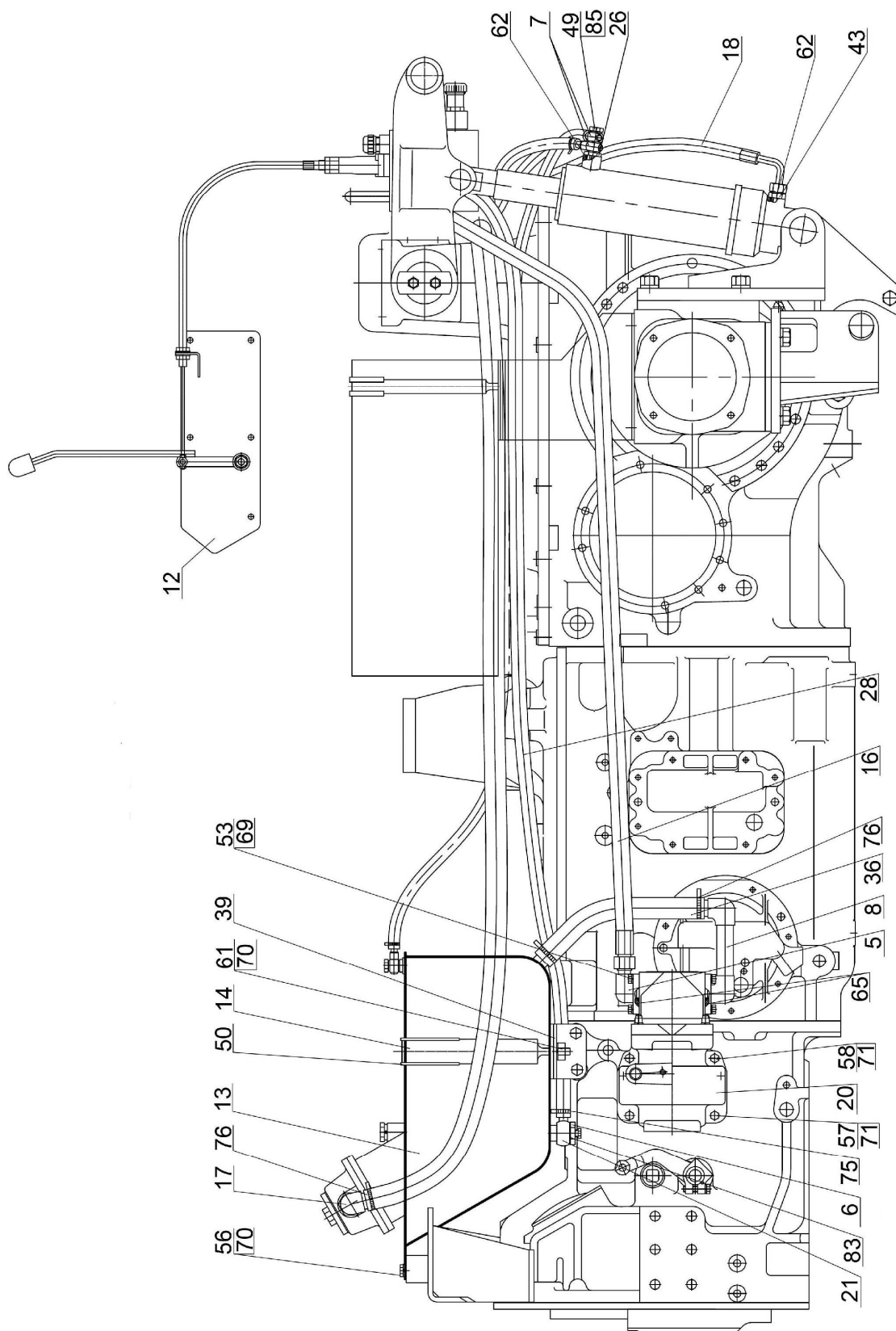


Fig. 46.7 Hydraulic units and fittings

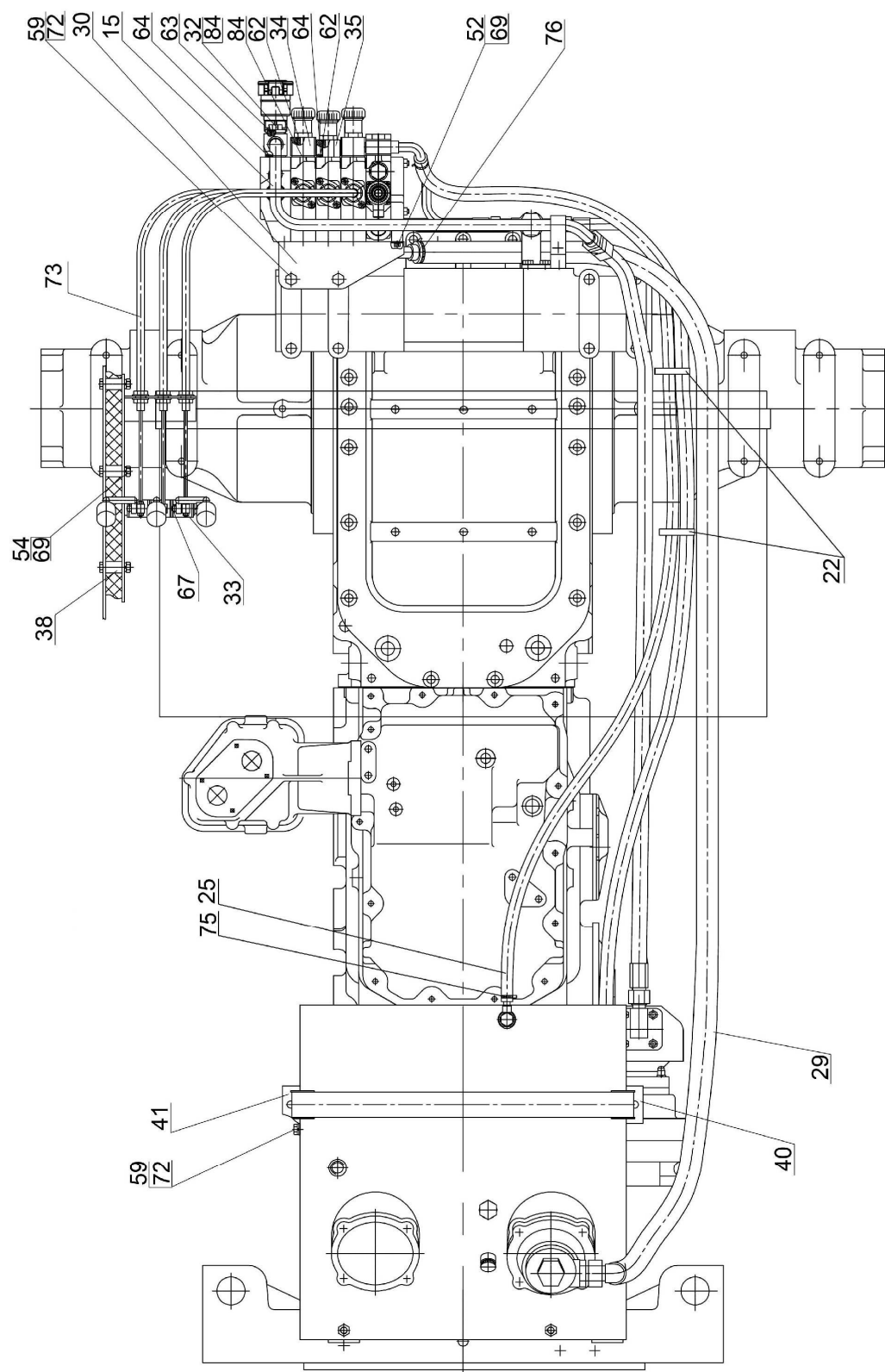


Fig. 46.8 Hydraulic units and fittings

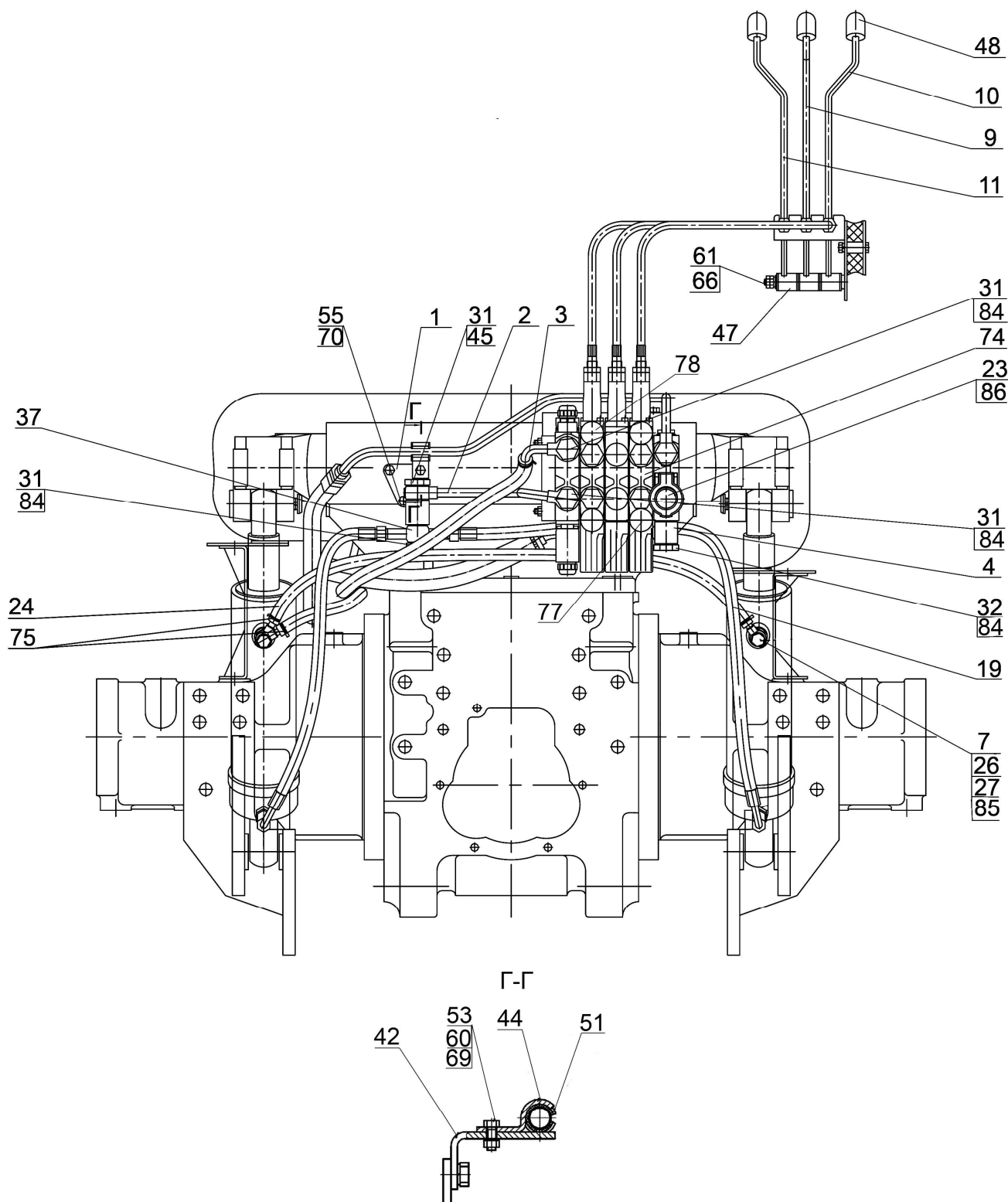


Fig. 46.9 Hydraulic units and fittings

Group 46. Remote-cylinder hydraulic system
Subgroup 4607. Hydraulic units and fittings

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.7		1523-4600010	1	Hydraulic system
46.8	1	1523-4607040	1	Bracket
46.9	2	1523-4607075	1	Pipe
	3	1523-4607150	1	Pipe
	4	1523-4607160	1	Pipe
	5	1522-4607020	1	Tube
	6	1522-4607070	1	Bolt
	7	Φ80-3407720	3	Oil pipeline
	8	1522-4607090	1	Pipe
	9	1522-4607230	1	Lever
	10	1522-4607230-01	1	Lever
	11	1522-4607230-02	1	Lever
	12	1522-4607250	1	Bracket
	13	1522-4608210	1	Tank
	14	1522-4608230	1	Stabilizer
	15	1523-4607085	1	Pipe
	16	П80-4607120-01	1	Hose
	17	680-4607510	1	Tube
	18	680-4607140-13	1	High pressure hose
	19	680-4607140-06	1	High pressure hose
	20	100-4617110-01	1	Pump drive
	21	C80-4607380	1	Pipe
	22	80-3723045-01	2	Collar
	23	1523-4607019	1	Union body
	24	1523-4607063	1	Hose (Hose 10x18,5-1,6 GOST 10362-76 L=(910±5) mm)
	25	1523-4607063-01	1	Hose (Hose 10x18,5-1,6 GOST 10362-76 L=(1520±5) mm)
	26	1021-4803158	2	Adapter
	27	Д18-051	1	Bolt
	28	1523-4607061	1	Hose.Hose14x23-1,6 GOST10362-76.L=(2090±5) mm
	29	1523-4607062	1	Hose.Hose25x35-1,6 GOST10362-76.L=(2180±5) mm
	30	1523-4607121	1	Bracket
	31	1522-4607011-A	4	Bolt
	32	1522-4607012-A	6	Bolt
	33	1522-4607017	3	Pin
	34	2522-4607018	4	Plate
	35	2522-4607019	2	Union body
	36	1522-4607062	1	Hose
	37	1522-4607078	1	Elbow
	38	1522-4607252	5	Bushing
	39	1522-4608234	2	Gasket
	40	1522-4608237	1	Bracket
	41	1522-4608238	1	Bracket
	42	1523-4607013	1	Bracket
	43	70-1405089	2	Union body

Group 46. Remote-cylinder hydraulic system
Subgroup 4607. Hydraulic units and fittings

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.7 46.8 46.9	44	50-4607041	1	Bracket
	47	A61.01.017	6	Bushing
	48	A13.11.000	3	Handle
	49	240-1111103	1	Bolt
	50	Пр-43-02	2	Seal
	51	70-3506027	1	Bushing
	52		4	Bolt M8-6gx20.88.35.019 GOST 7796-70
	53		9	Bolt M8-6gx25.88.35.019 GOST 7796-70
	54		5	Bolt M8-6gx40.88.35.019 GOST 7796-70
	55		3	Bolt M10-6gx16.88.35.019 GOST 7796-70
	56		2	Bolt M10-6gx20.88.35.019 GOST 7796-70
	57		2	Bolt M12-6gx30.88.35.019 GOST 7796-70
	58		2	Bolt M12-6gx150.58.019 GOST 7795-70
	59		4	Bolt M16-6gx32.88.35.019 GOST 7796-70
	60		1	Nut M8-6H.6.019 GOST 5915-70
	61		4	Nut M10-6H.6.019 GOST 5915-70
	62		10	Ring 017-022-30-1-4 GOST 18829-73/9833-73
	63		1	Ring 021-024-19-2-2 GOST 18829- 73/GOST 9833-73
	64		3	Ring 024-028-25-2-4 GOST 18829-73/9833-73
	65		2	Ring 035-040-30-1-4 GOST 18829-73/9833-73
	66		1	Washer C 10.01.08кп.019 GOST 11371-78
	67		3	Forelock 3,2x18.019 GOST 397-79
	69	8 T	18	Washer OST 37.001.115-75
	70	10 OT	7	Washer OST 37.001.115-75
	71	12 OT	4	Washer OST 37.001.115-75
	72	16 OT	4	Washer OST 37.001.115-75

Group 46 Remote-cylinder hydraulic system
Subgroup 4607. Hydraulic units and fittings

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.7 46.8 46.9	73	EAAB.303635.001 or 100.M4(40)22.01500 or 772-L-TS-40-1500	3 3 3	Rope
	74	ZMS-23LS R917 001 488	1	Integrated unit
	75	16-27	6	Clamp with worm thread
	76	25-40	4	Clamp with worm thread
	77	HP10-5-X0041A0	3	Fast coupling (red)
	78	HP10-5-X0041A3	3	Fast coupling (green)
	83	PM 1/2	2	Washer
	84	PM22	20	Washer
	85	PM14	5	Washer
	86		1	Clutch Dy=20 mm

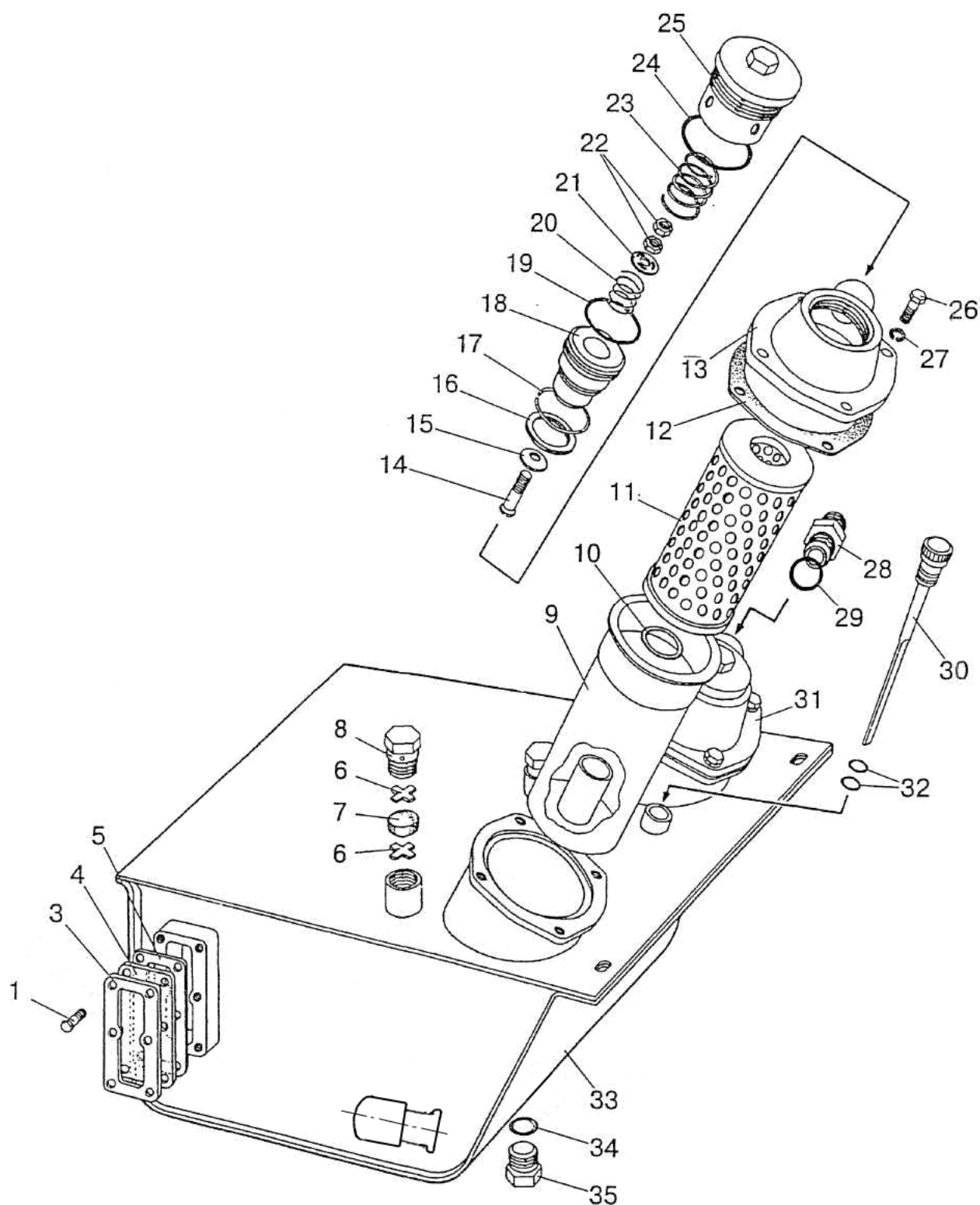


Fig. 46.10 Tank

**Group 46 Remote-cylinder hydraulic system
Subgroup 4608. Tank**

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.10	1	M6x20 DIN EN 1665-98	6	Bolt
	3	85-4608088-B	1	Plate
	4	85-4608087-B	1	Indicator
	5	85-4608086-B	1	Gasket
	6	50-4608062	4	Breather washer
	7	50-4608063	2	Filter
	8	50-4608059	2	Breather plug
	9	822-4608020 -A	2	Housing
	10	042-050-46-2-2	2	Ring
	11	ЭФOM 631-1 or ФЭГ 3-25*	2 2	Filtering element
	12	822-4608112	2	Gasket
	13	1522-4608211-01	1	Cover
	14	M6x40	2	Screw
	15	8.20.004	2	Valve
	16	822-4608042	2	Ring
	17	822-4608032	2	Ring
	18	822-4608041	2	Valve
	19	055-060-2-2	2	Ring
	20	8.20.002	2	Spring
	21	8.20.005	2	Thrust washer
	22	M6	4	Nut
	23	80-4608057	2	Spring
	24	066-071-30-2-2	2	Ring
	25	822-4608031	2	Housing
	26	M8x25	8	Bolt
	27	ШП 8	8	Washer
	28	C80-4607034	1	Union body
	29	027-032-30-2-2	1	Ring
	30	70-4608065A	1	Oil meter
	31	1522-4608211	1	Cover
	32	011-015-25-2-2	2	Ring
	33	1522-4608220	1	Housing
	34	017-022-30-2-2	2	Ring
	35	50-4608027-B	2	Plug

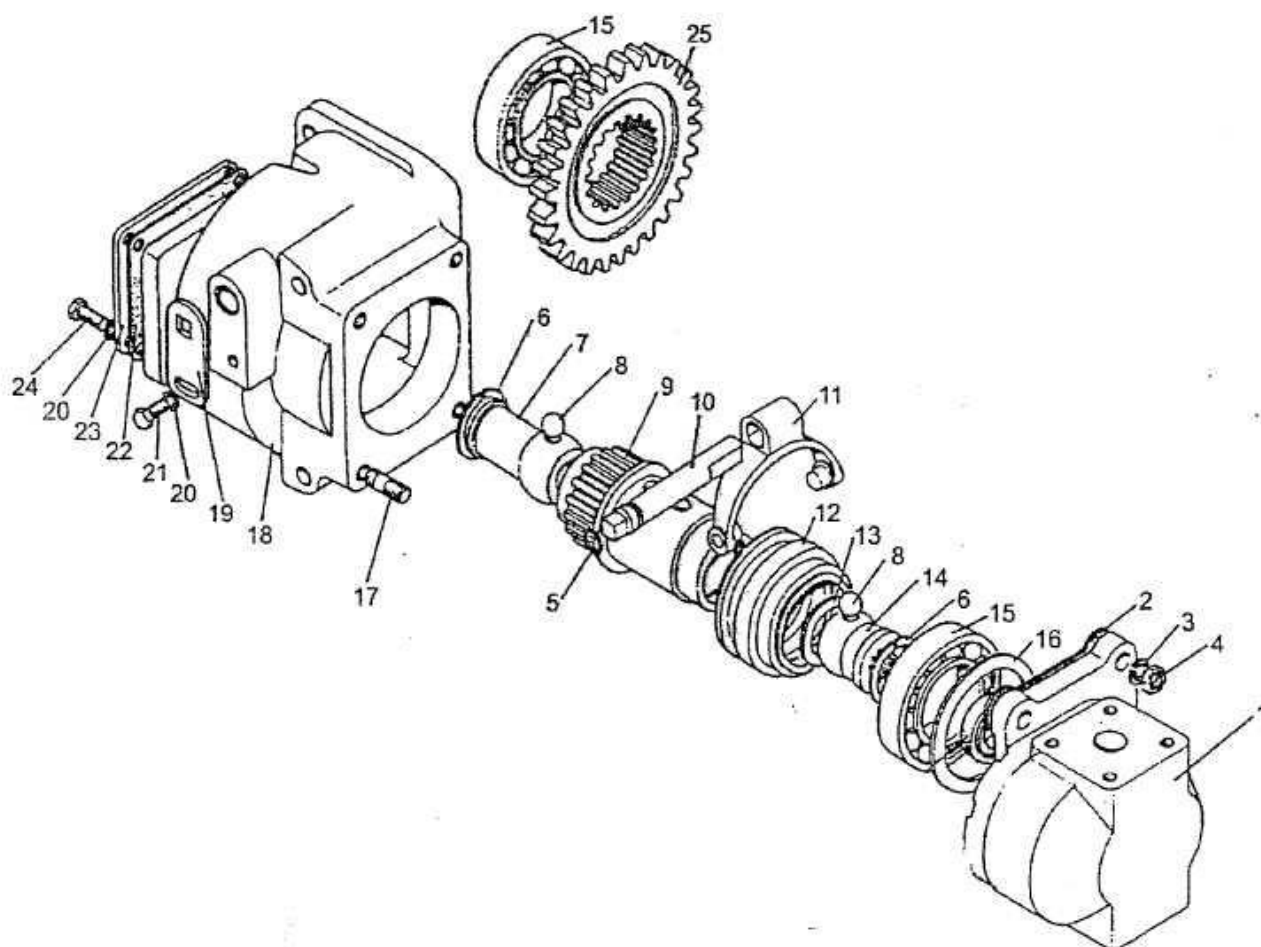


Fig. 46.11 Hydraulic system pump drive

Group 46. Remote-cylinder hydraulic system
Subgroup 4617. Hydraulic system pump drive

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.11	1	GP32N-4 or HШ32УКФ-3 or HШ32Д-3	1 1 1	Pump
	2	36-1022054-A	1	Gasket
	3	ШП 10	4	Washer
	4	M10	4	Nut
	5	013-017-25-1-4	1	Ring
	6	B 40	2	Ring
	7	100-4617116	1	Bushing
	8	11.113	6	Ball
	9	100-4617112	1	Shaft
	10	100-4617118	1	Axis
	11	85-4604030	1	Yoke
	12	100-4617113	1	Clutch
	13	100-4617123	1	Ring
	14	100-4617114	1	Bushing
	15	210 K5	2	Bearing
	16	100-4617121	1	Ring
	17	10x25	4	Stud
	18	100-4617111	1	Drive housing
	19	100-4617119	1	Plate
	20	ШП 8	5	Washer
	21	M8x16	1	Bolt
	22	50-1022062-Б1	1	Gasket
	23	100-4617122	1	Drive cover
	24	M8x20	4	Bolt
	25	100-4617117	1	Gear wheel

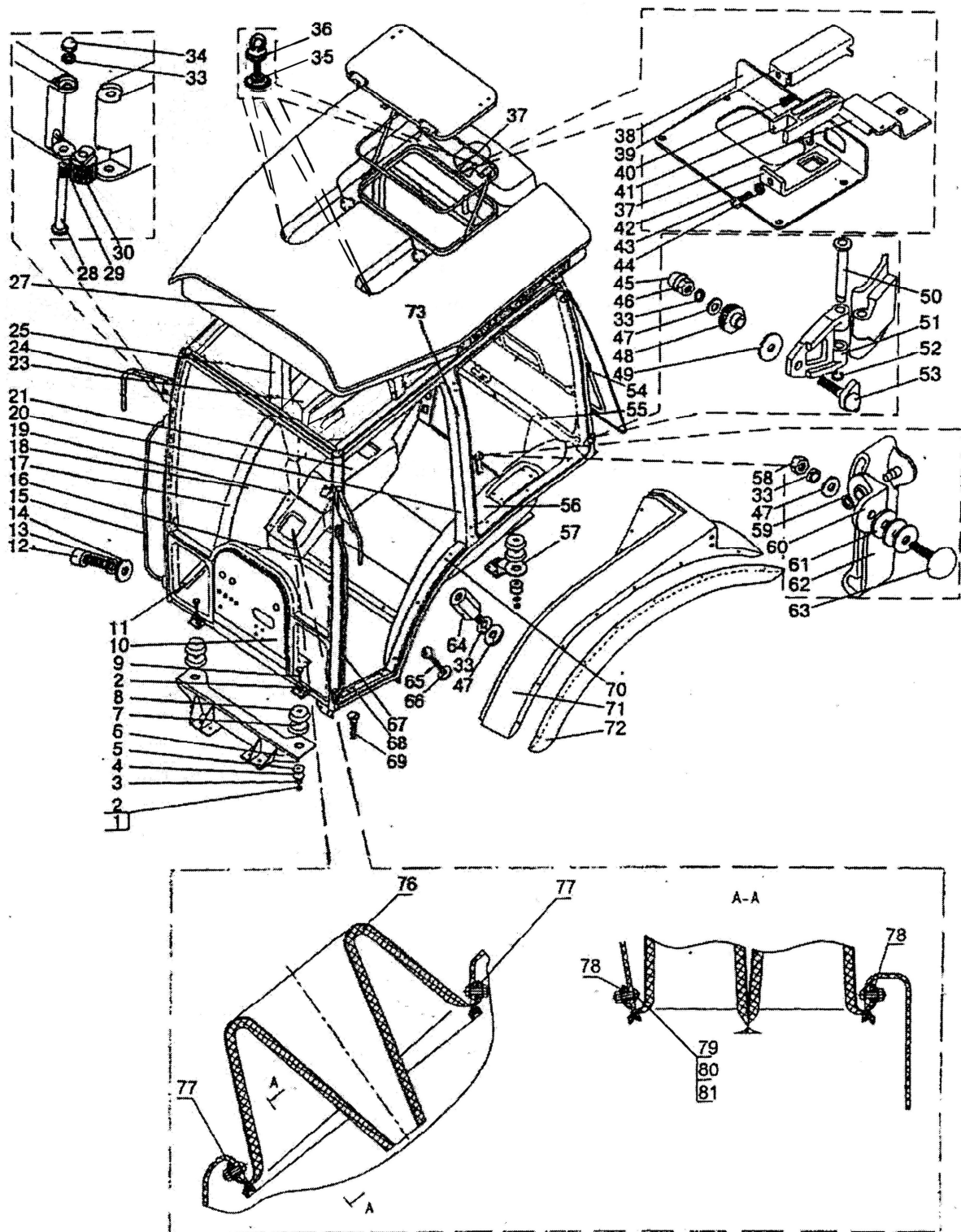


Fig. 67.1 Cabin

Group 67 Cabin
Subgroup 6700. Tractor cabin

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
67.1		2522-6700010	1	Cabin assembly
	1	4x36	4	Forelock
	2	M16x1,5	4	Nut
	3	ШП 16	4	Washer
	4	ШЧ 16	8	Washer
	5	130-5001364-B	4	Cushion
	6	1522-6700030	1	Bracket
	7	80-6700160	4	Vibroisolator
	8	80-6700163	4	Cage
	9	80-6700029	4	Bolt
	10	2522-6703031	1	Gasket
		2522-6703032	1	Gasket
		2522-6703033	1	Gasket
	11	2522-6702001-01	1	Clamp
	12	BM10x35	4	Screw
	13	ШЧ 10	4	Washer
	14	ШП 10	4	Washer
	15	2522-6703115-01	1	Handrail
	16	2522-6702466	1	Clamp
	17	TA 2522-6702330-01	1	Lining
	18	2522-6702180	1	Panel
	19	TA 1222-6702341	1	Control panel
	20	TA 2522-6701070	1	Lining
	21	TA 1222-6702350	1	Control panel
	23	2522-6702325-02	1	Panel
	24	2522-8201200	2	Bracket (28, 29, 30)
	25	TA 2822-6701075	1	Lining
	27	2522-6707035	1	Roof
	28	2522-8201219	2	Screw
	29	2522-8201205	2	Bracket
	30	2522-8201204	2	Shaft
	33	ШП 8	1	Washer
	34	2522-6708029	2	Nut
	35	2522-6707081	3	Washer

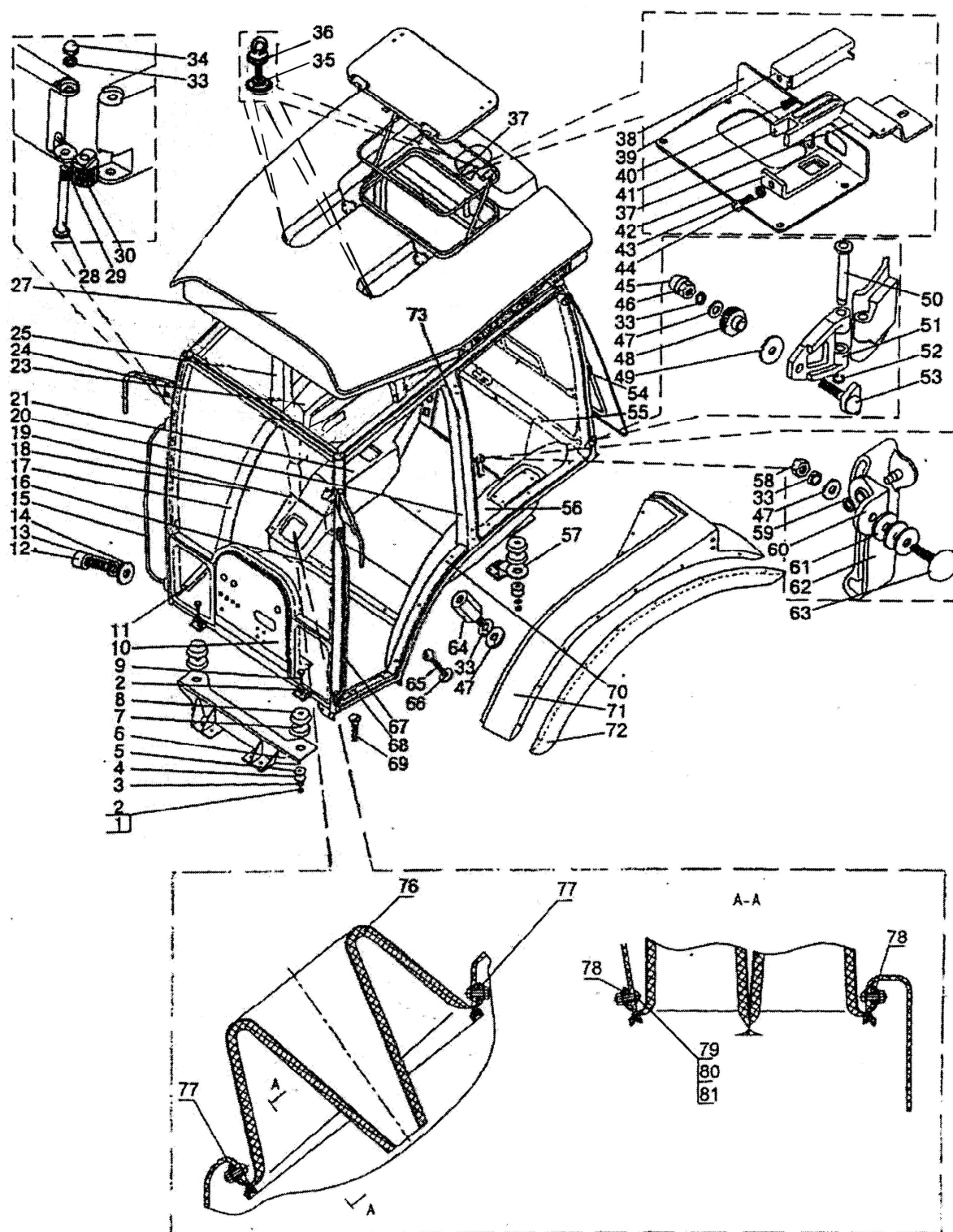


Fig. 67.1 Cabin

Group 67 Cabin
Subgroup 6700. Tractor cabin

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
67.1	36	2522-6707033	3	Eye-bolt
	37	822-6707051-B	1	Bracket
	38	822-6707064	1	Panel
	39	822-6707066	1	Cover
	40	55-17-27	1	Spring
	41	822-6707061	1	Latch
	42	822-6707067	1	Bracket
	43	M6	1	Screw
	44	Ш48	1	Washer
	45	A 30.04.017	4	Cap
	46	M8	4	Nut
	47	Ш48	8	Washer
	48	80-6708903	4	Bushing
	49	80-6708904	4	Gasket
	50	822-8700011	4	Pin
	51	2522-6708902	4	Hinge
	52	ШП5	4	Washer
	53	2522-6708905	4	Screw
	54	21054	2	Air hoist
	55	TA 2522-6702320	1	Lining
	56	2522-6702335	1	Panel
	57	1522-6700037	1	Bracket (left)
		1522-6700037-01	1	Bracket (right)
	58	M8	2	Nut
	59	ШП5	2	Washer
	60	822-6708152	2	Bracket
	61	80-6708904-B	6	Gasket
	62	2522-6708160	1	Handle (left)
		2522-6708160-01	1	Handle (right)
	63	2522-6708165	2	Screw
	64	2522-6708032	2	Bushing
	65	M6x20	4	Screw
	66	2522-6700018	4	Washer
	67	2522-6703115	1	Handrail (left)
	68	2522-6702001	1	Clamp (left)
	69	M6x16	4	Screw
	70	TA 2522-6702330	1	Lining
	71	923-8404010	1	Wing (left)
		923-8404010-01	1	Wing (right)

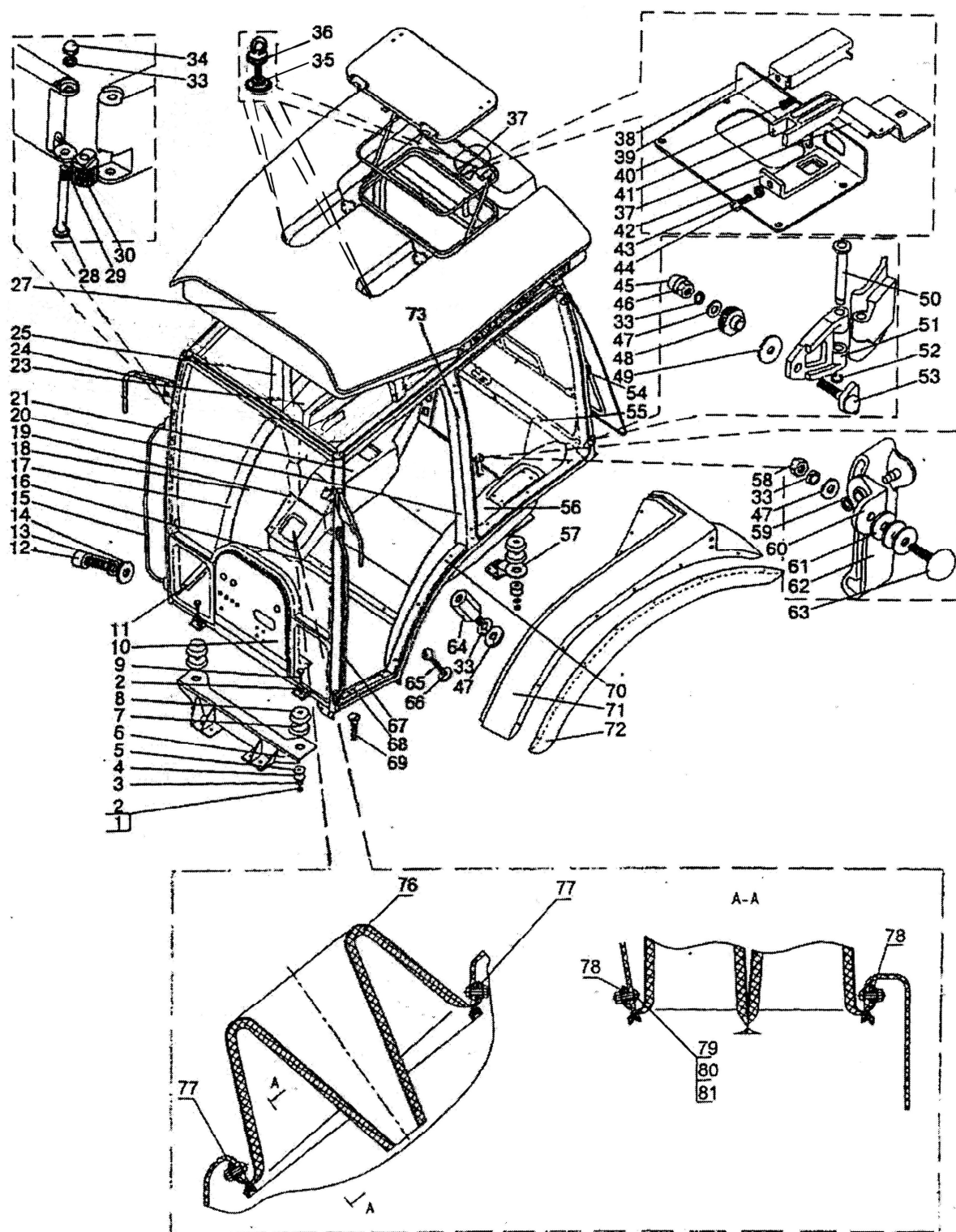
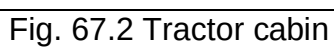


Fig. 67.1 Cabin

Group 67 Cabin
Subgroup 6700. Tractor cabin

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
67.1	72	923-8404030	1	Widener (left)
		923-8404030-01	1	Widener (right)
	73	2522-6700015-01	1	Framework
	76	2522-6702270	1	Case
	77	923-6702336	2	Strip
	78	923-6702336-01	2	Strip
	79	B.M4x12	8	Screw
	80	M 4	8	Nut
	81	C 4	16	Washer



Group 67 Cabin
Subgroup 6700. Tractor cabin

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
67.2	1	2522-6703012 or 2522-6703012-A or 2522-6703012- AL	1	Screen (left)
		2522-6703012-01 or 2522-6703012-A-01 or 2522-6703012-AL-01	1	Screen (right)
	2	2522-6703011 or 2522-6703011- A or 2522-6703011-AL	1	Screen
	3	2522-6708111 or 2522-6708111-A or 2522-6708111-AL	1	Screen (left)
		2522-6708111-01 or 2522-6708111-A-01 or 2522-6708111-AL-01	1	Screen (right)
	4	M6	10	Nut
	5	ШП6	10	Washer
	6	ШЧ6	20	Washer
	7	923-6707087	2	Gasket
	8	822-6707082	2	Hinge
	9	M 6	10	Bolt
	10	822-6707075	4	Bracket
	11	586116	2	Air hoist 21532
	12	2522-6707040	1	Hatch
	13	822-6707081	2	Hinge
	14	A 37.08.045	1	Seal
	15	1522-8104060	2	Grill
	16	80-8104060	2	Filter
	17	822-6708279	1	Cover
	18	2522-6708215	1	Arc
	20	21054	2	Air hoist
	21	ШП5	4	Washer
	22	822-6708270	1	Lock
	23	BM4 x10	2	Screw
	24	M8x30	2	Bolt
	25	ШП 8	2	Washer
	26	ШЧ8	6	Washer
	27	2522-6708211 or 2522-6708211-A or 2522-6708211-AL	1	Screen
	28	B - 716 - 02	1	Profile
	30	2522-6708952 or 2522-6708952-A	1	Screen (778x325 mm)
		2522-6708952-Б	1	Screen (633x325 mm)
	31	2522-6708150	1	Left detent
		2522-6708150-01	1	Right detent
	32	M16x50	8	Bolt
	33	M16x40	8	Bolt
	34	ШП16	16	Washer
	35	70-6708189	2	Axis

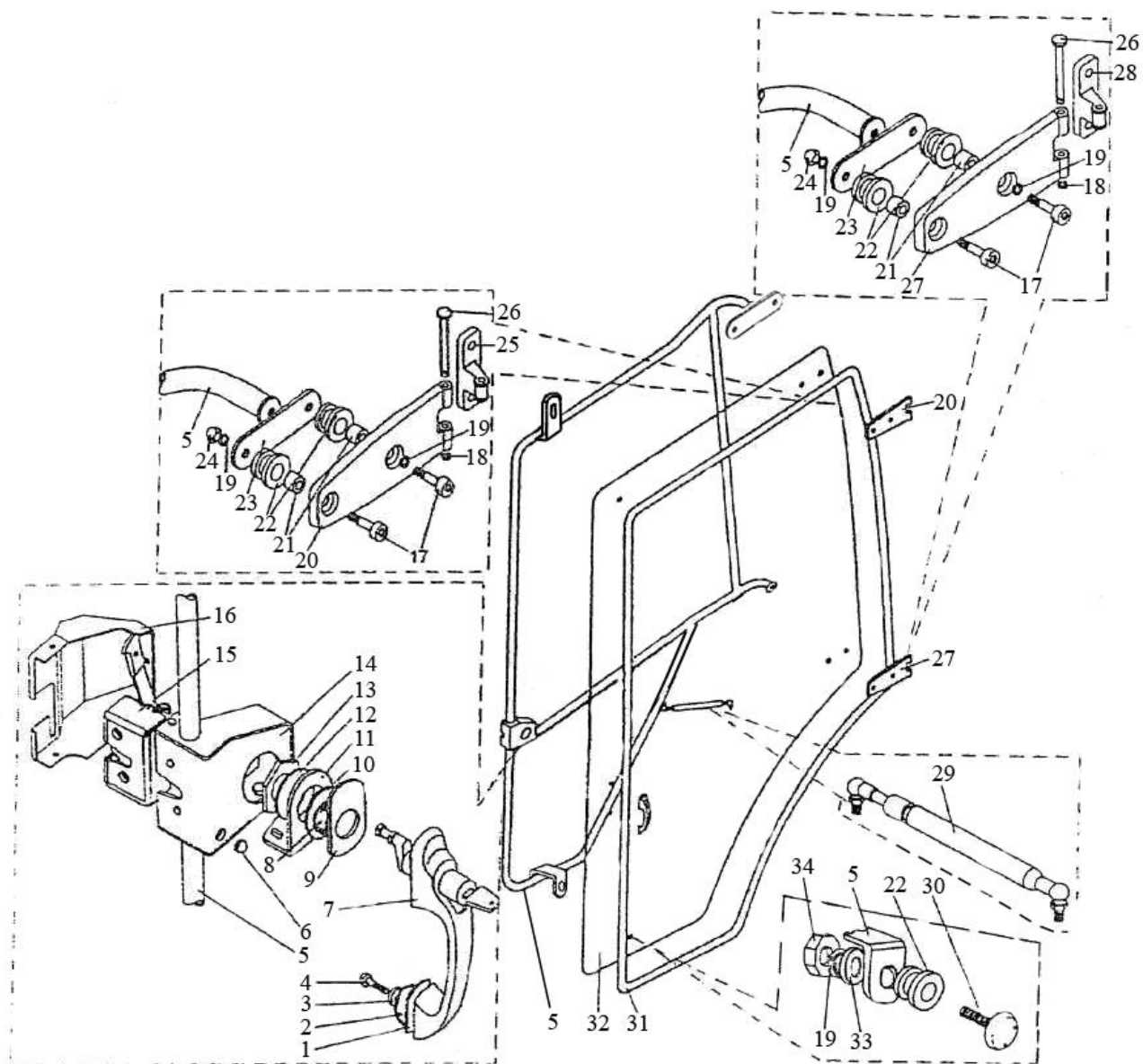


Fig. 67.3 Cabin door

Group 67 Cabin
Subgroup 6708. Cabin door

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
67.3	1	2522-6105018	2	Gasket
	2	2522-6105019	2	Gasket
	3	2522-6105021	2	Washer
	4	M6x20	2	Screw
	5	2522-6708020-A	1	Left frame
		2522-6708020-A-01	1	Right frame
	6	70-8401072	2	Bumper
	7	2522-6105300	1	Handle (left)
		2522-6105330	1	Handle (right)
	8	2522-6105022	2	Bushing
	9	2522-6105013	2	Gasket
	10	2522-6105014	2	Gasket
	11	2522-6105023	1	Bracket (left)
		2522-6105023-01	1	Bracket (right)
	12	2522-6105016	2	Washer
	13	2522-6105017	2	Nut
	14	2522-6708023	1	Left bracket
		2522-6708023-01	1	Right bracket
	15	80-6105050	1	Lock (left)
		80-6105050-01	1	Lock (right)
	16	2522-6708812	1	Cover
		2522-6708812-01	1	Cover
	17	M8	8	Screw
	18	ШП5	4	Washer
	19	ШП8	10	Washer
	20	2522-6708056	1	Upper left hinge
		2522-6708056-01	1	Upper right hinge
	21	2522-6708017	8	Bushing
	22	2522-6708016	12	Bushing
	23	2522-6708011	4	Plate
	24	2522-6708029	4	Nut
	25	2522-6705051	1	Upper left hinge
		2522-6705051-01	1	Upper right hinge
	26	622-6700011	4	Pin
	27	2522-6708061	1	Lower left hinge
		2522-6708061-01	1	Lower right hinge
	28	2522-6703066	1	Lower left hinge
		2522-6708066-01	1	Lower right hinge
	29	6288VJ	2	Gas pressure spring ($L_{free} = 355$; travel = 150 mm; $F=150$ N)
	30	2522-6708975	4	Screw
	31	B-716-01 or B-202	2 2	Profile Profile (double-tube)
	32	2522-6708013 or 2522-6708013-A or 2522-6708013-AL	1	Screen (left)
		2522-6708013-01 or 2522-6708013-01-A or 2522-6708013-AL-01	1	Screen (right)
	33	ШЧ8	2	Washer
	34	M8	2	Nut

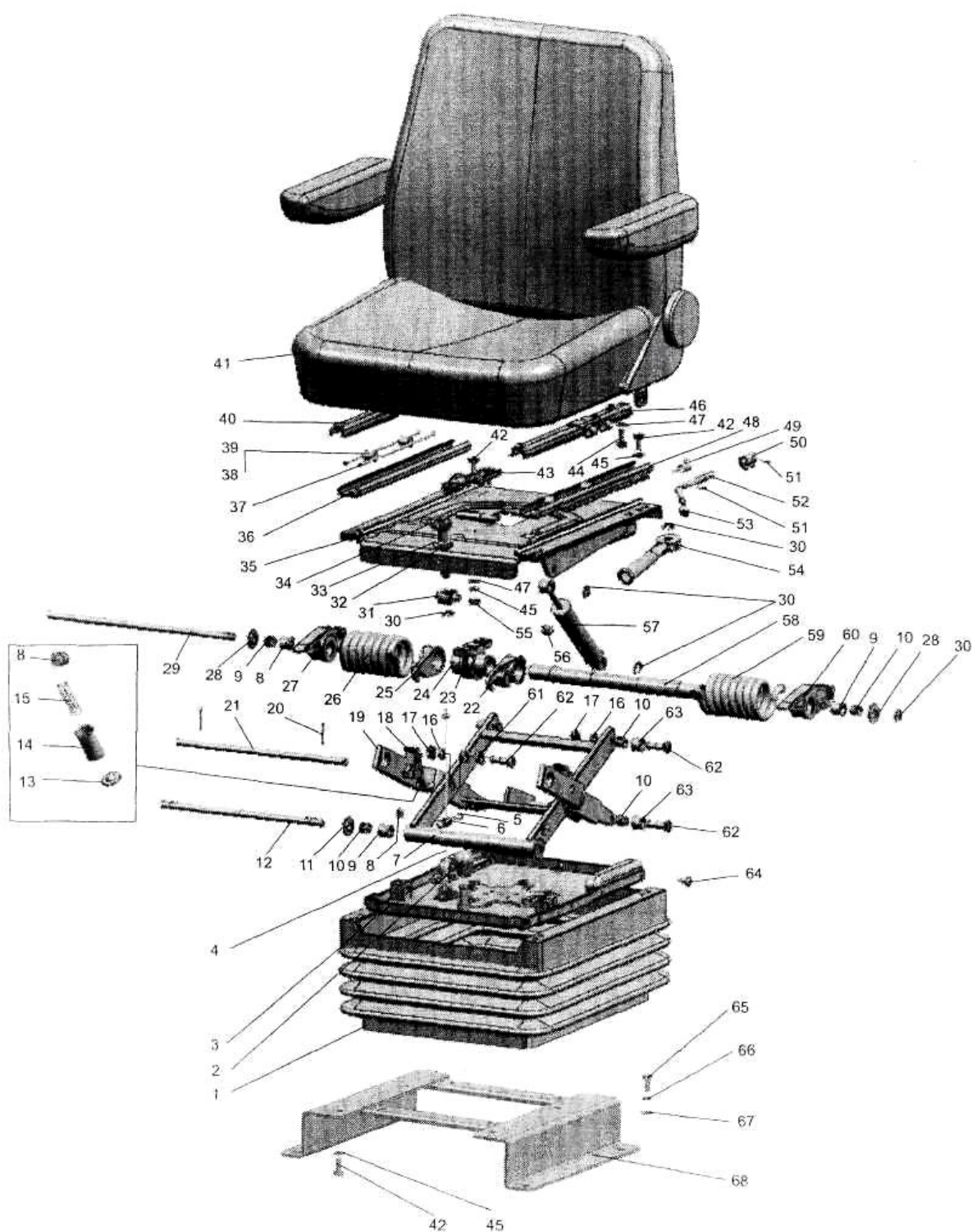


Fig. 68.1 Operator seat

Group 68 Driver seat
Subgroup 6800. Operator seat

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
68.1		80-6800010	1	Seat (1-64)
		80-6800010-01	1	Seat (1-64)
	1	80B-6800108	1	Case
	2	A61.01.014	1	Handle
	3	80B-6801560	1	Base
	4	80B-6801240	1	Rope
	5	M5x16	2	Screw
	6	70-4803023	1	Union body
	7	80B-6801590-B	1	Frame
	8	80B-6801521	4	Thrust
	9	80B-6801512	4	Bushing
	10	K12x16x13E	8	Bearing
	11	80B-6801033-01	2	Washer
	12	80B-6801508	1	Axis
	13	80B-6801519	2	Foot step
	14	80B-6801518	2	Sleeve
	15	80B-6801530-B	2	Spring
	16	ШП10	6	Washer
	17	M10	6	Nut
	18	80B-6801581	2	Pawl
	19	80B-6801570	1	Frame
	20	4x22	2	Forelock
	21	80B-6801012	1	Axis
	22	80B-6801004-01	1	Hook
	23	80B-6801001	1	Bracket
	24	80B-6801003	1	Axis
	25	80B-6801004	1	Hook
	26	80B-6801002	1	Spring
	27	80B-6801507	1	Quadrant
	28	80B-6801033	2	Washer
	29	80B-6801506	1	Axis
	30	70-6801307	5	Washer
	31	80B-6801023	1	Nut
	32	80B-6801008	1	Washer
	33	3,0-100	22	Ball
	34	80B-6801152	1	Screw

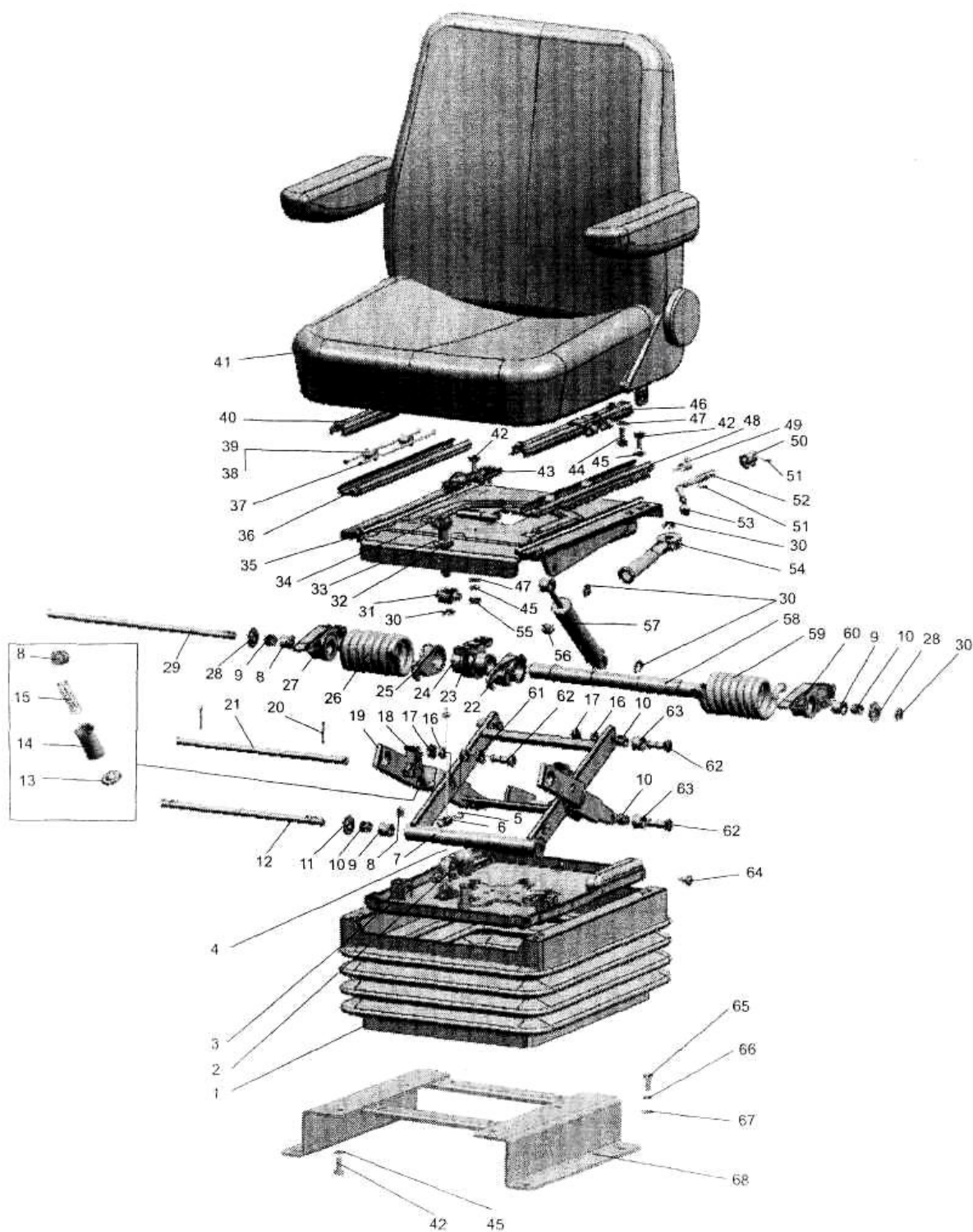


Fig. 68.1 Operator seat

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
68.1	35	80-6801550	1	Panel
	36	80-6800104	1	Guide
	37	70-6804394-B	4	Wire rod
	38	70-6804391	4	Roller
	39	010-015-30-2-3	4	Ring
	40	80-6800110-01	1	Rail
	41	CT-154T.6800010	1	Seat
		CT-154TM.6800010	1	Seat
	42	M8x20	11	Bolt
	43	80B-6801031	1	Enhancer
	44	M8x20	4	Screw
	45	ШП8	11	Washer
	46	80-6800110	1	Rail
	47	ШЧ8	6	Washer
	48	80-6800120	1	Guide
	49	80-6800103	1	Spring
	50	80-6800102	1	Lock
	51	70-4202431-01	2	Pin
	52	80-6800101	1	Handle
	53	70-6801082	1	Handle
	54	80B-6801150	1	Handle
	55	M8	1	Nut
	56	80-6801531	6	Bumper
	57	80-6809100-11	1	Shock absorber
	58	80B-6801505	1	Shaft
	59	80B-6801002-01	1	Spring
	60	80B-6801507-01	1	Quadrant
	61	80B-6801526	4	Yoke
	62	80B-6801528	6	Axis
	63	80B-6801032	4	Roller
	64	80-6800006	20	Button
	65	M10	4	Bolt
	66	ШП10	4	Washer
	67	ШЧ10	4	Washer
	68	1522-6800010-B*	1	Bracket

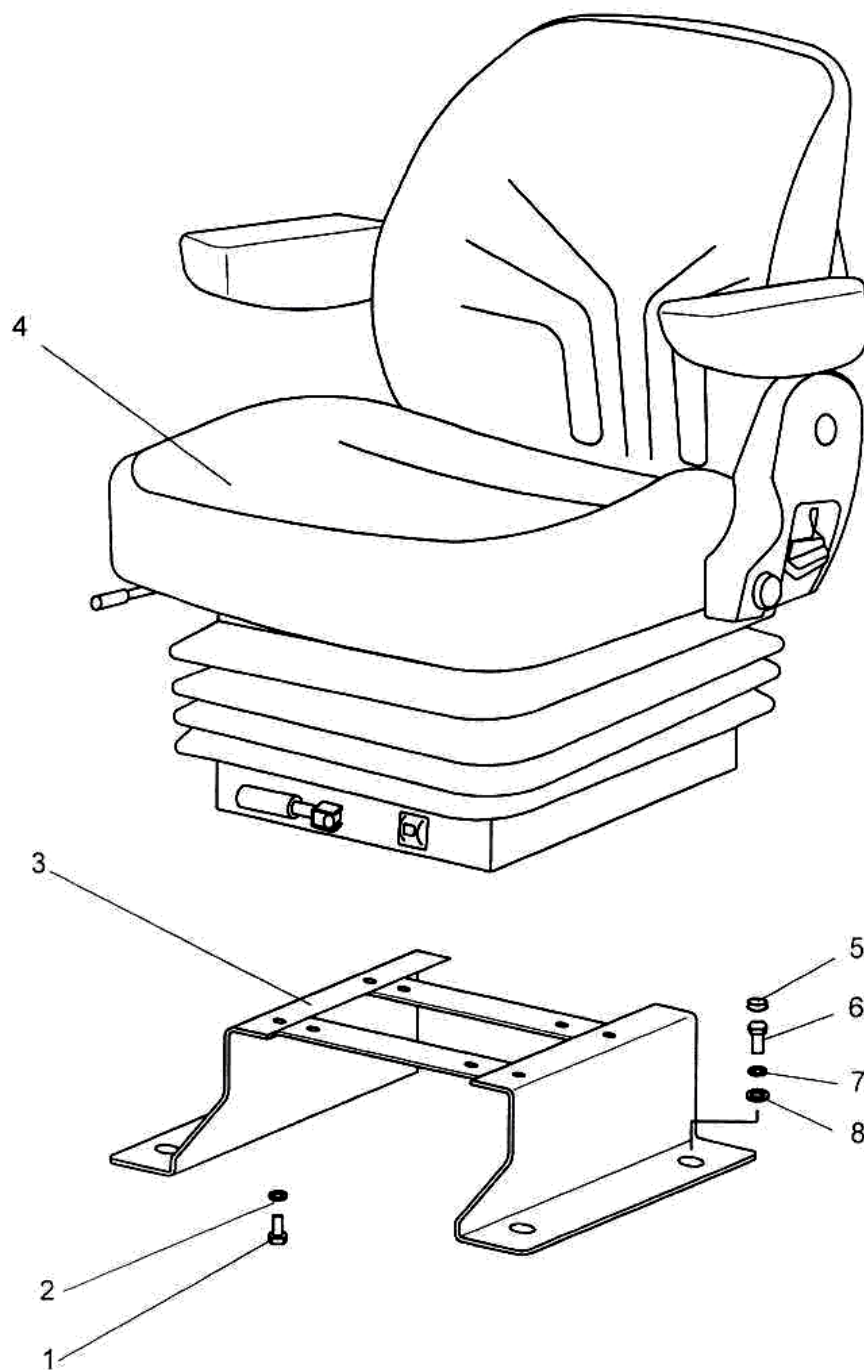


Fig. 68.2 Operator seat

Group 68 Driver seat
Subgroup 6800. Operator seat

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
68.2		Grammer MSG85/721	1	Seat
	1	M8x20	4	Bolt
	2	ШП8	4	Washer
	3	2522-6800010-Б	1	Bracket
	4	Grammer MSG85/721	1	Seat
	5	A30.04.017-03	4	Cap
	6	M10x55	4	Bolt
	7	ШП10	4	Washer
	8	ШЧ10	4	Washer

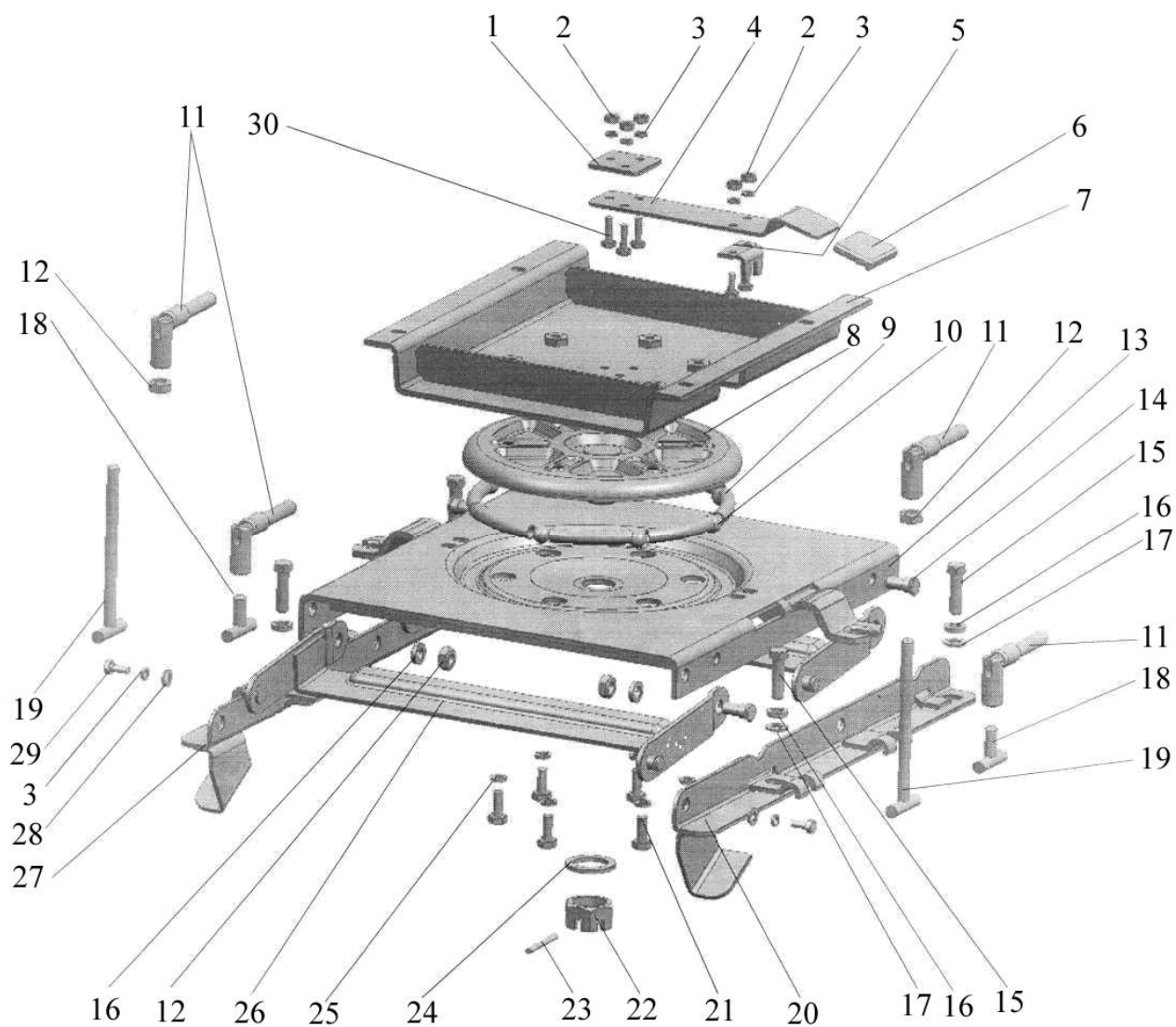


Fig. 68.3. Reverse mechanism

Group 68. Driver seat
Subgroup 6807. Reverse mechanism

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
68.3		2522-6807000-01	1	Reverse mechanism
	1	80B- 6804014	1	Lining
	2	M6	5	Nut
	3	ШП6	9	Washer
	4	80B-6807009-Б	1	Lever
	5	1522-6807101	1	Lock
	6	80B-6804066	1	Lining
	7	1522-6807160	1	Panel
	8	80B-6807070	1	Disk
	9	80-1716041	8	Spring
	10	15.081	8	Ball
	11	80B-6807040	4	Clamp
	12	M10	6	Nut
	13	2522-6807020	1	Panel
	14	2522-6807001	4	Bolt
	15	M10x30	4	Bolt
	16	ШП10	8	Washer
	17	ШЧ10	4	Washer
	18	80B-6807050	2	Screw
	19	1522-6807150	2	Screw
	20	2522-6807010	1	Bracket
	21	M8x20	6	Bolt
	22	A04.02.020	1	Nut
	23	5x45	1	Forelock
	24	ШЧ27	1	Washer
	25	ШП8	6	Washer
	26	2522-6807040	2	Piston-rod
	27	2522-6807010-01	1	Bracket
	28	ШЧ6	4	Washer
	29	M6x14	6	Bolt
	30	M6x20	3	Bolt

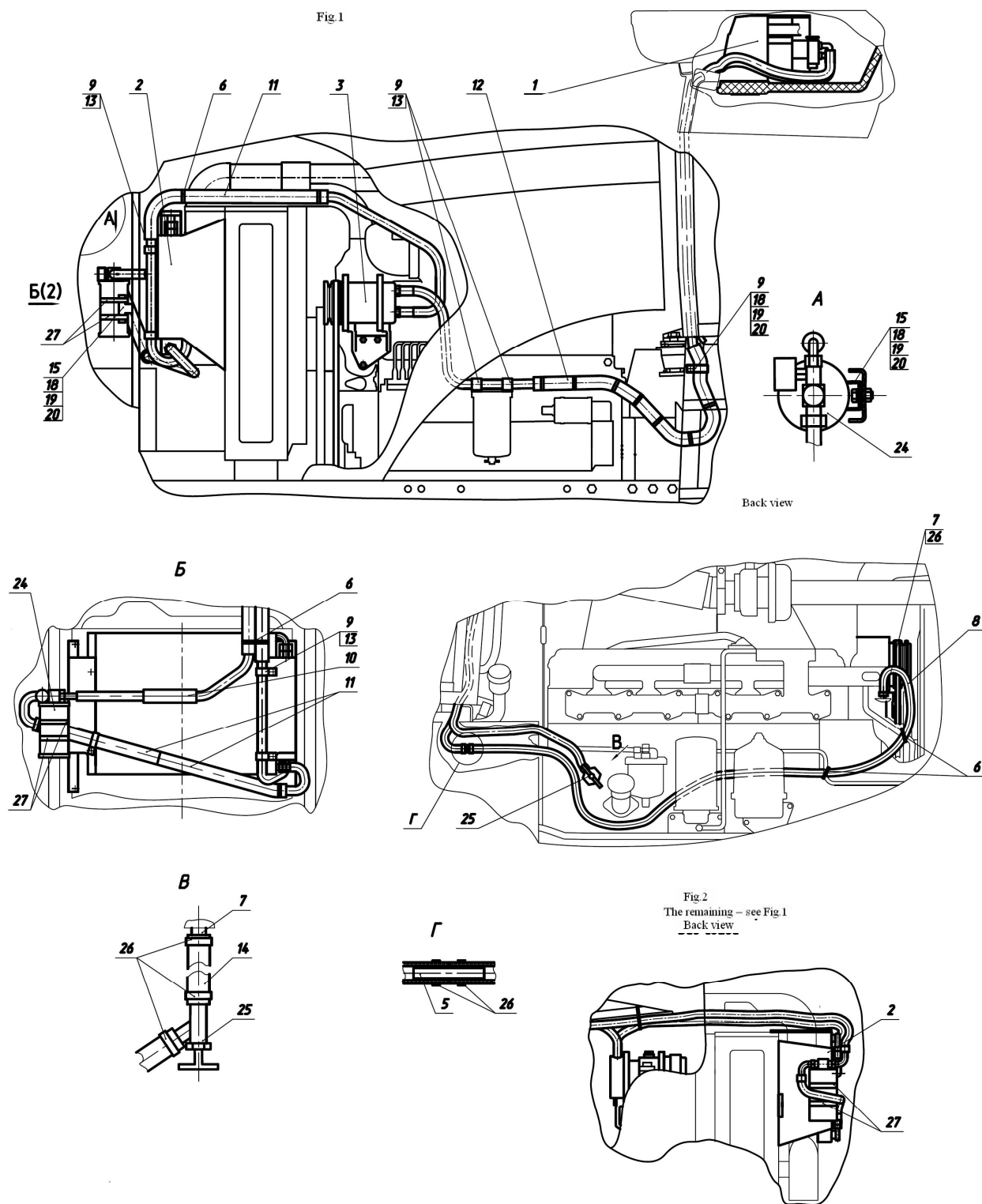


Fig.81.1 Air conditioner installation

Group 81. Conditioner system
Subgroup 8100. Air conditioner installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
81.1		2022-8100005-02	1	Air conditioner installation
	1	3022-8101010	1	Heater-cooler installation
	2	1523-8112010	1	Installation of condensator
	3	1523-8114020	1	Compressor installation
	5	70-6702306	1	Bushing
	6	80-3723045-01	20	Collar
	7	80-8100023	2	Union body
	8	80-8101015	1	Hose
	9	923-3723012	6	Clamp
	10	2822ДЦ-8100013	1	Hose
	11	2822ДЦ-8100013-01	2	Hose
	12	2822ДЦ-8100013-03	2	Hose
	13	3022-8100011	6	Pipe
	14	3022-8101011-05	1	Hose
	15	3022-8112011	1	Bracket
	18	M8-6gx16.88.35.019	2	Bolt GOST 7796-70
	19	M8-6H.6.019	2	Nut GOST 5915-70
	20	8T	2	Washer
	24	MT8100000-02	1	Conditioner
	25	BC11-0	1	Cock TU RB 03973223.008-2000
	26	20-32	6	Clamp with worm thread
	27	70-90	2	Clamp with worm thread

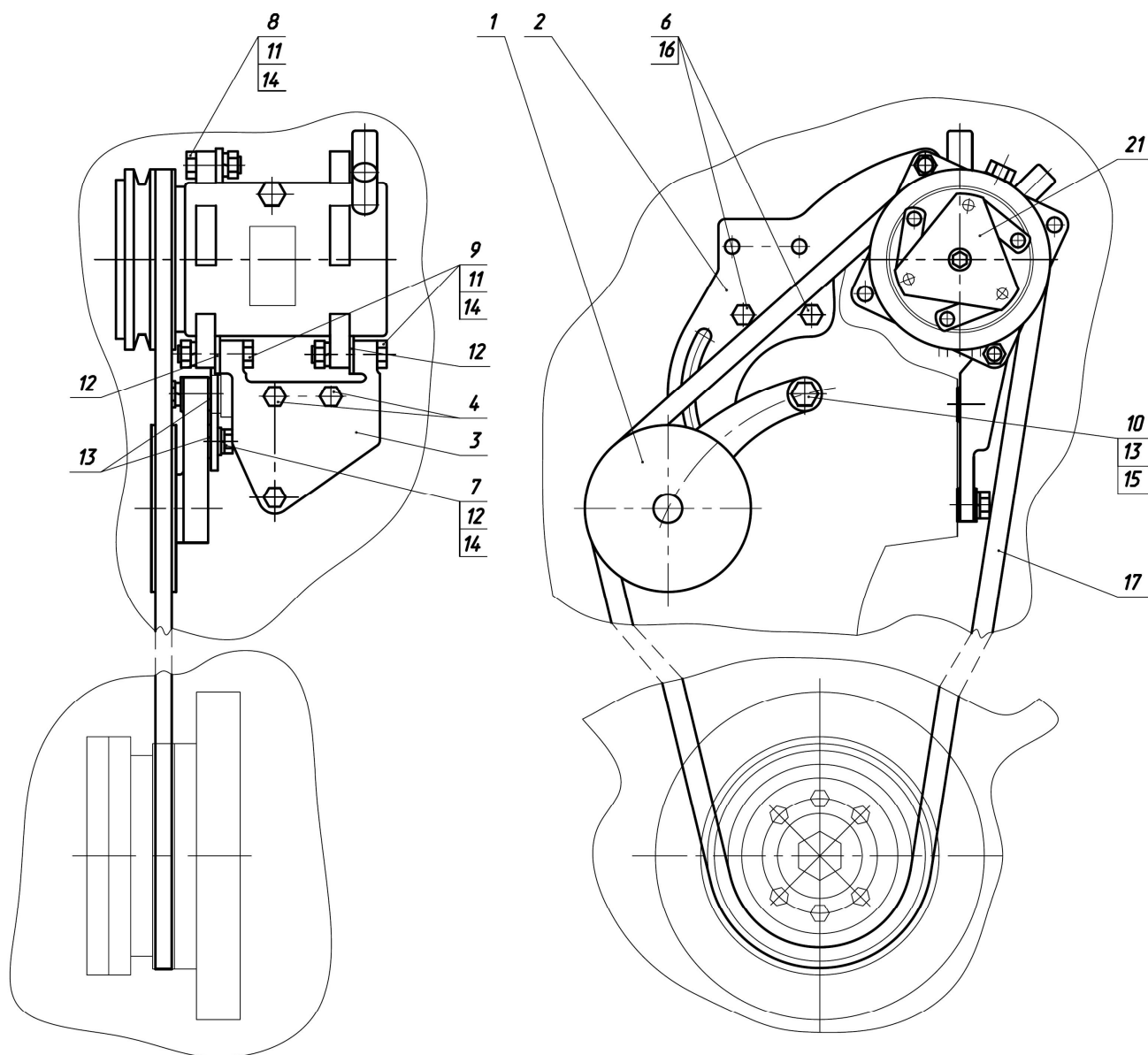


Fig. 81.2 Compressor installation

Group 81. Conditioner system
Subgroup 8114. Compressor installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
81.2	1	1221-814070	1	Tension lever
	2	1523-8114021	1	Plate
	3	1221-8114022	1	Bracket
	4	260-3701068	2	Special-type bolt
	6	M10-6gx16.88.35.019	2	Bolt GOST 7796-70
	7	M10-6gx30.88.35.019	2	Bolt GOST 7796-70
	8	M10-6gx35.88.35.019	1	Bolt GOST 7796-70
	9	M10-6gx50.88.35.019	2	Bolt GOST 7795-70
	10	M12-6gx35.109.40X.019	1	Bolt GOST 7798-70
	11	M10-6H.6.019	3	Nut GOST 5915-70
	12	C 10.01.019	3	Washer GOST 6958-78
	13	C 12.01.019	2	Washer GOST 11371-78
	14	10 OT	9	Washer OST 37.001.115-75
	15	12 OT	1	Washer OST 37.001.115-75
	17	8114.003	1	Belt

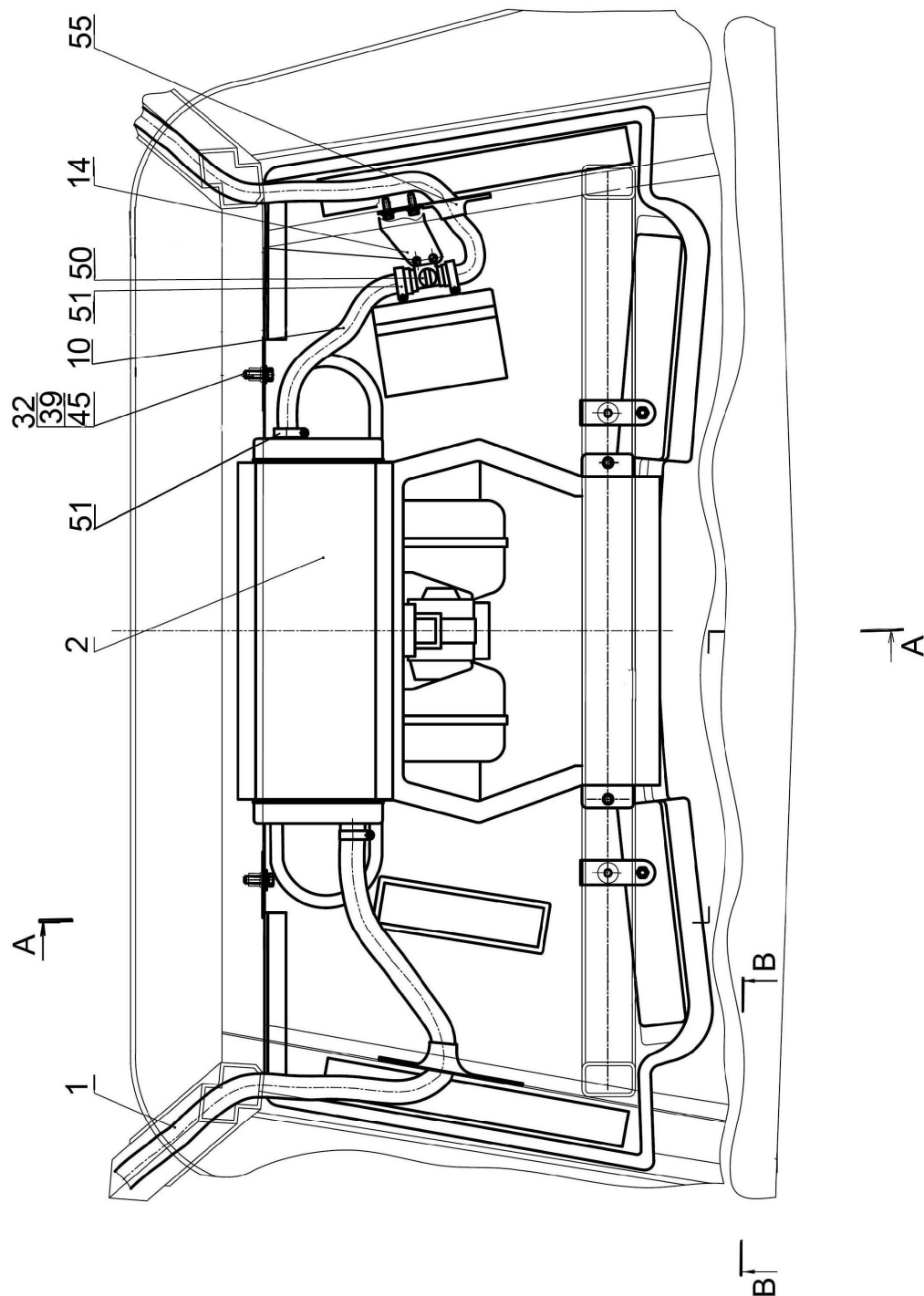


Fig. 81.3 Heater installation

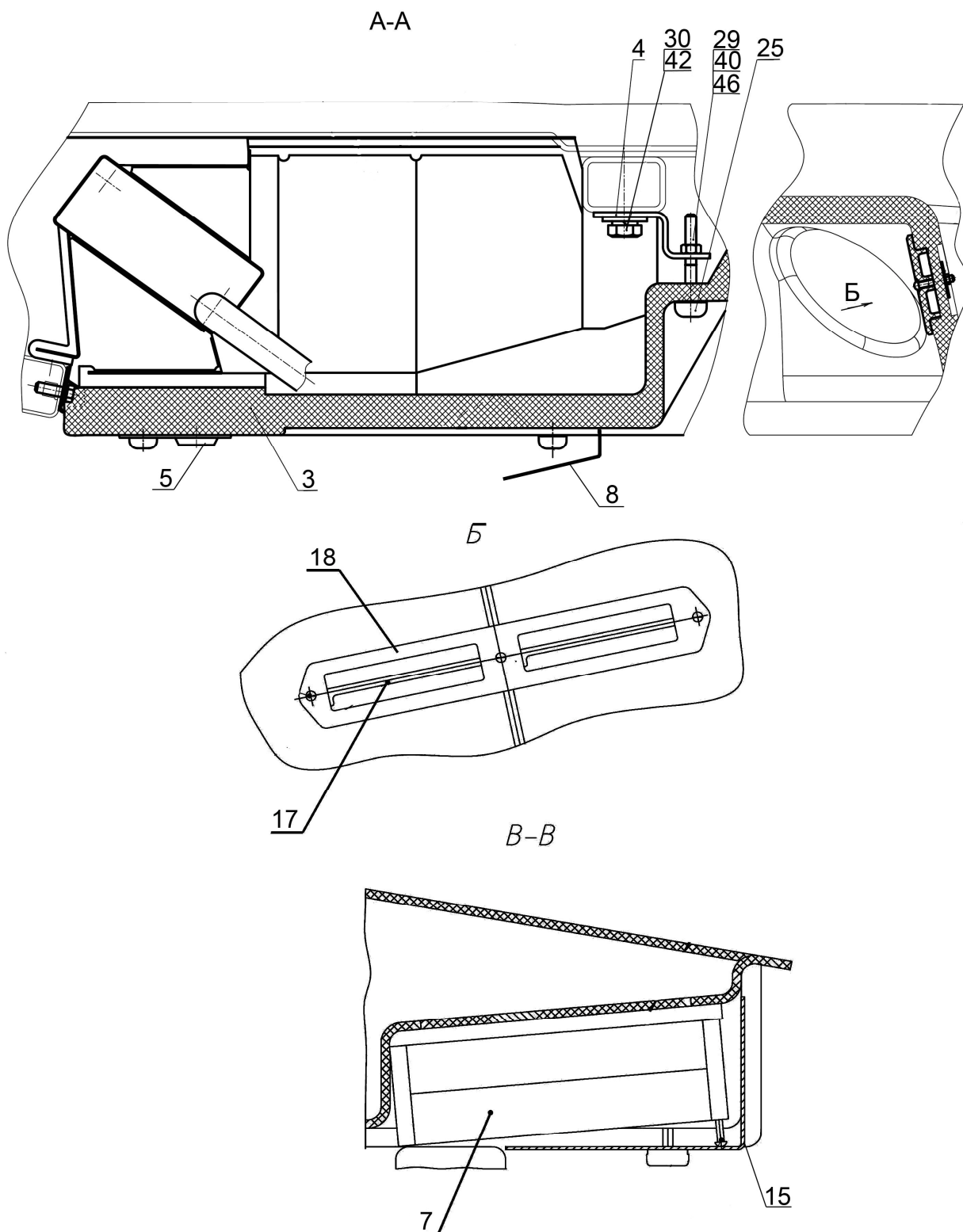


Fig. 81.3a Heater installation

Group 81. Heater
Subgroup 8101. Heater (upon request)

Fig.No	Pos.No	Designation	Q-ty	Name
81.3 81.3a	1	1522-8101080	1	Heater armature
	2	1522-8101100	1	Heater fan
	3	1522-8101090	1	Panel
	4	3022-8101100	1	Bracket
	5	1522-8104100	6	Aspirator
	7	80-8104060	2	Filter
	8	80П-8204010	1	Shield
	10	1522-8101012-06	1	Hose
	14	1522-8101034	1	Bracket
	15	1522-8104023	2	Grill
	17	80-8100012	2	Shutter
	18	80-8100011-Б	1	Cover
	29	M8x6gx88.35.019	2	Bolt GOST 7796-70
	30	M16-6gx25.88.35.019	2	Bolt GOST 7796-70
	32	M6-6gx20.88.35.019	2	Bolt GOST 7798-70
	39	C 6.01.019	4	Washer GOST 6958-78
	40	C 8.01.019	2	Washer GOST 6958-78
	42	C 16.01.019	8	Washer GOST 11371-78
	45	6T	2	Washer OST 37.001.115-75
	46	8T	4	Washer OST 37.001.115-75
	50	ΠO11	1	Cock TU RB 03973223.008-2000
	51	20-32	4	Clamp with worm thread
	55	ЛТ 50x2		Hermetic Vikar TU 2513-001-25687015-99

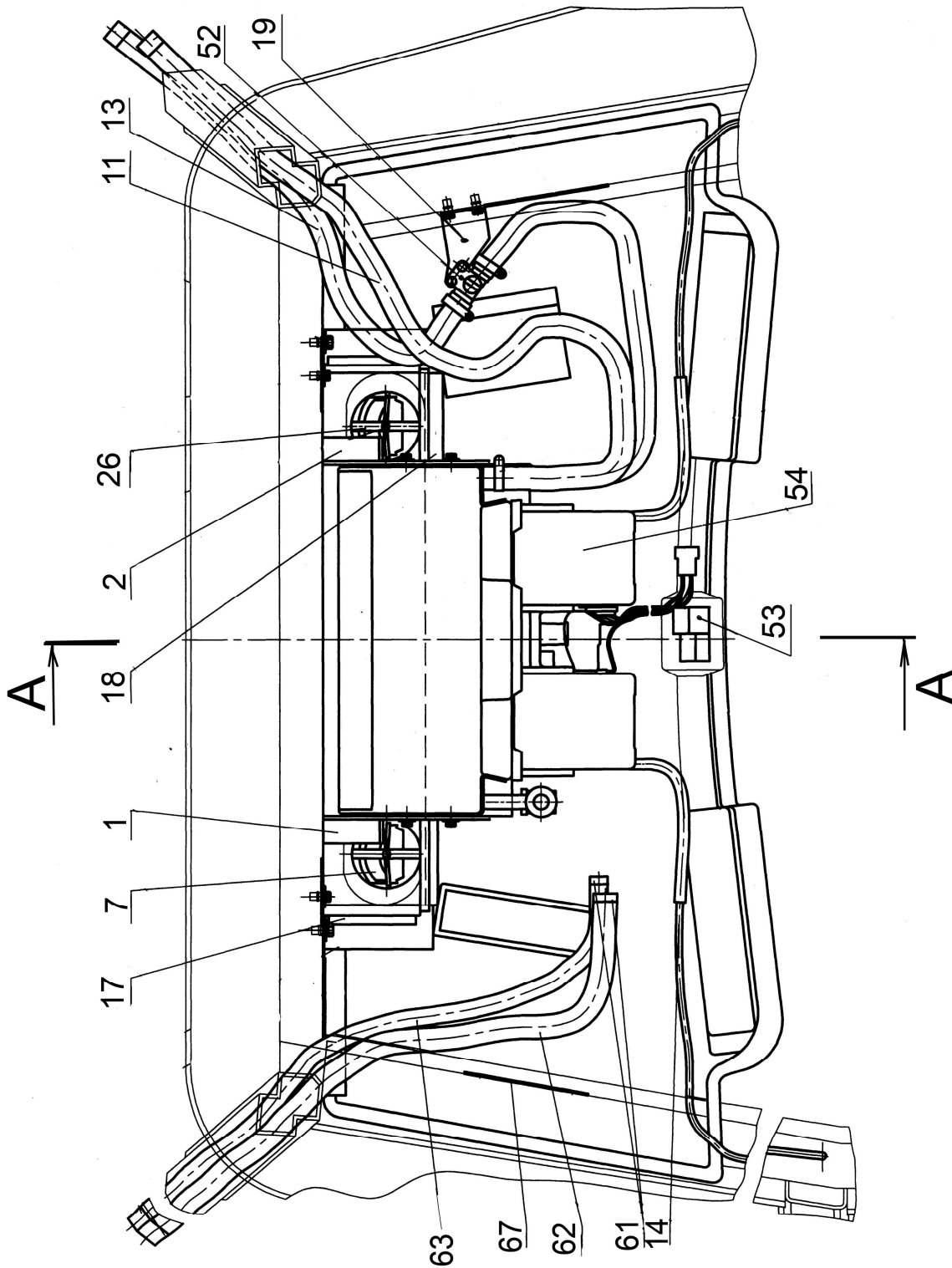


Fig. 81.4 Heater-cooler installation

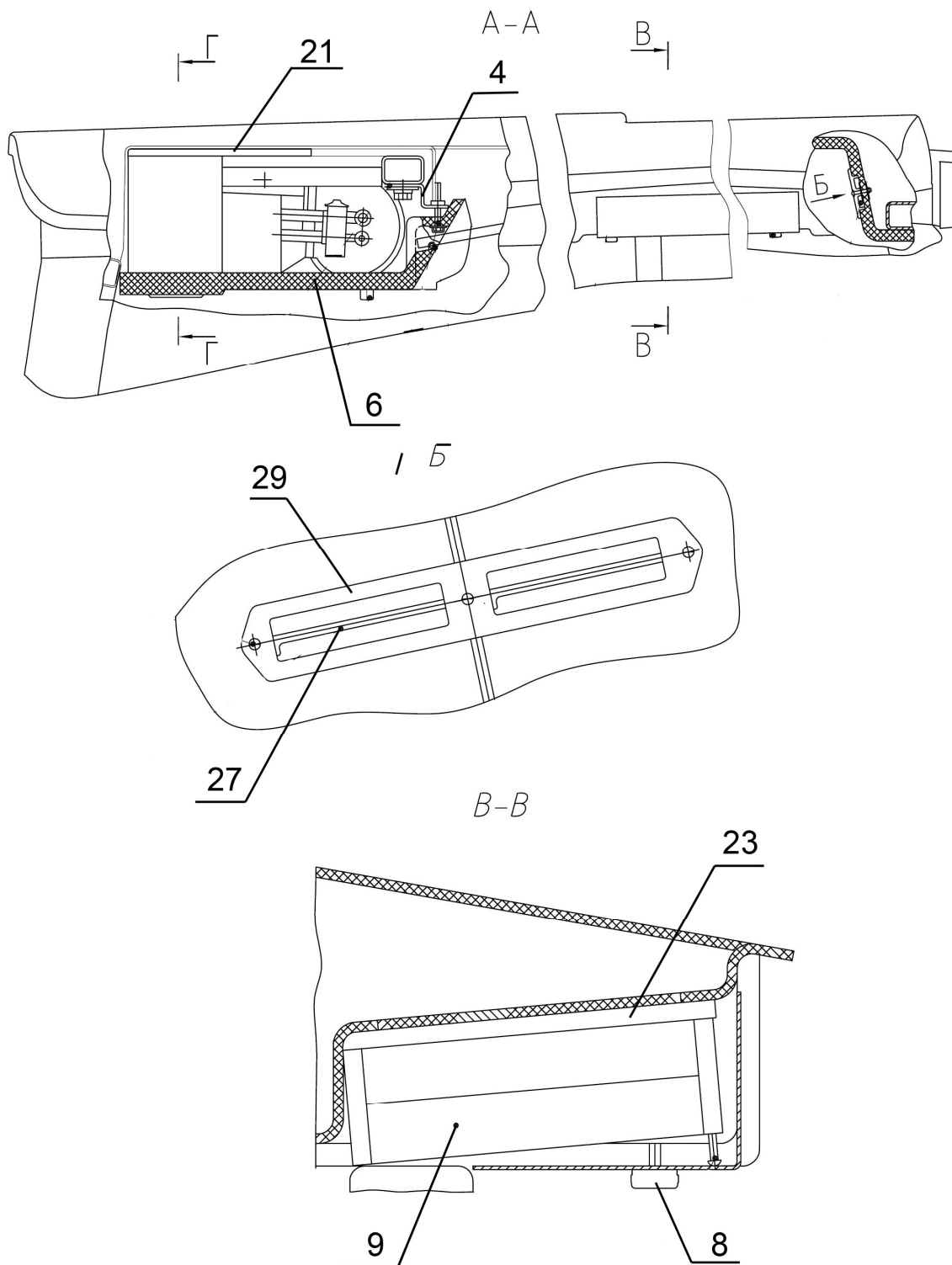


Fig. 81.5. Heater-cooler installation

Group 81. Conditioner system
Subgroup 8101. Heater-cooler installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
81.4 81.5	1	3022-8101020	1	Bracket
	2	3022-8101020-01	1	Bracket
	3	3022-8101100	2	Bracket
	6	1522-8101110	1	Panel
	7	1522-8104100	6	Aspirator
	8	80-3805065-01	4	Screw
	9	80-8104060	2	Filter
	11	3022-8101011	1	Hose
	13	3022-8101011-02	1	Hose
	14	3022-8101012	2	Pipe
	17	3022-8101017	2	Wall
	18	3022-8101018	1	Seal
	19	1522-8101036	1	Bracket
	21	1522-8101013-02	1	Seal
	23	1522-8101091-02	1	Seal
	25	1522-8104023	2	Grill
	26	1522-8104105	6	Joke
	27	80-8100012	2	Shutter
	29	80-8100011-B	1	Cover
	52	ПО 11	1	Cock
	53	586415	1	Fan switch
	54	U003CF041E	1	Climate control block
	61	TORRO 20-32/9-C6W	2	Clamp «NORMA»
	62		1	Hose №10 90010GN (L=4200 mm)
	63		1	Hose №6 90006GN (L=5100 mm)

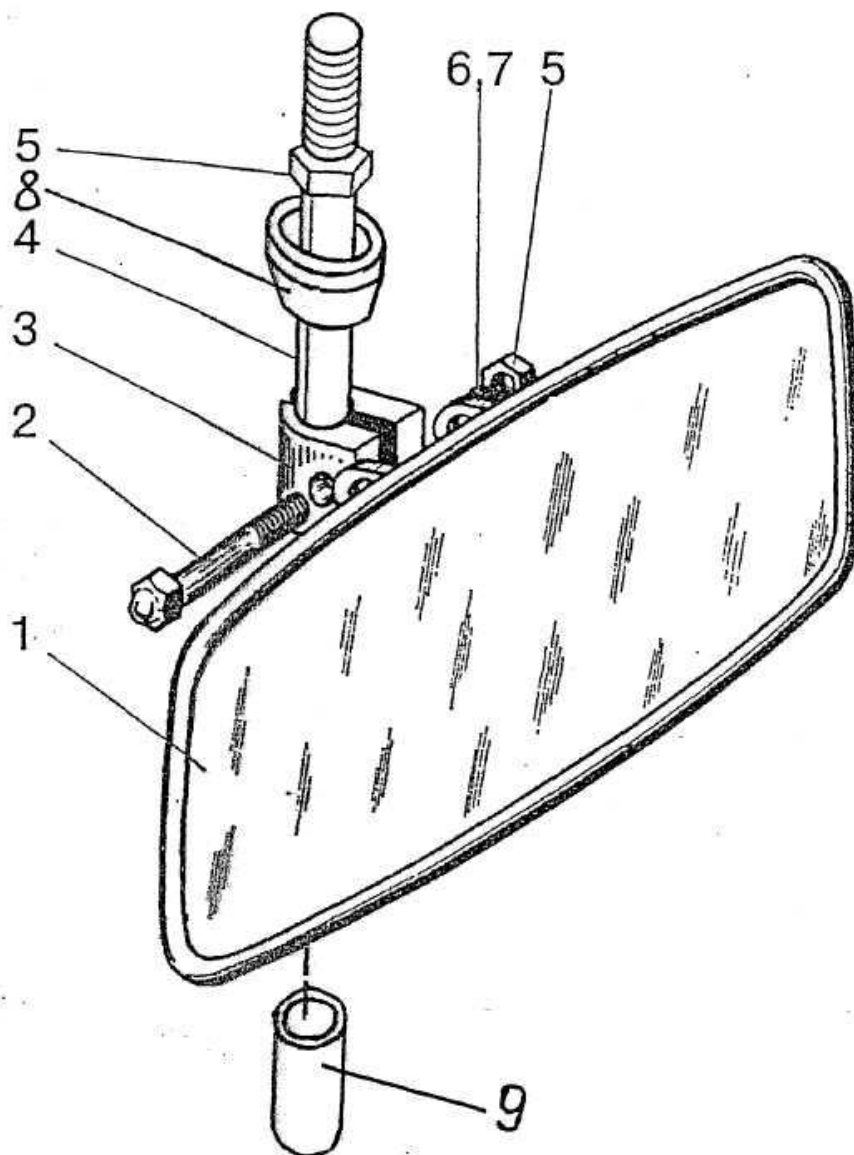


Fig. 82.1 Inside rear-view mirror

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
82.1		2522-8201090	1	Inside mirror installation (1, 4, 5, 8, 9)
	1	80-8201035	1	Inside rear-view mirror (2, 3, 6 ,7)
	2	M8x25	1	Bolt
	3	A30.04.071	1	Clamp
	4	2522-8201091	1	Axis
	5	M8	2	Nut
	6	Ш48	1	Washer
	7	ШП8	1	Washer
	8	2522-8201092	1	Cap
	9	70-6700103	1	Cap

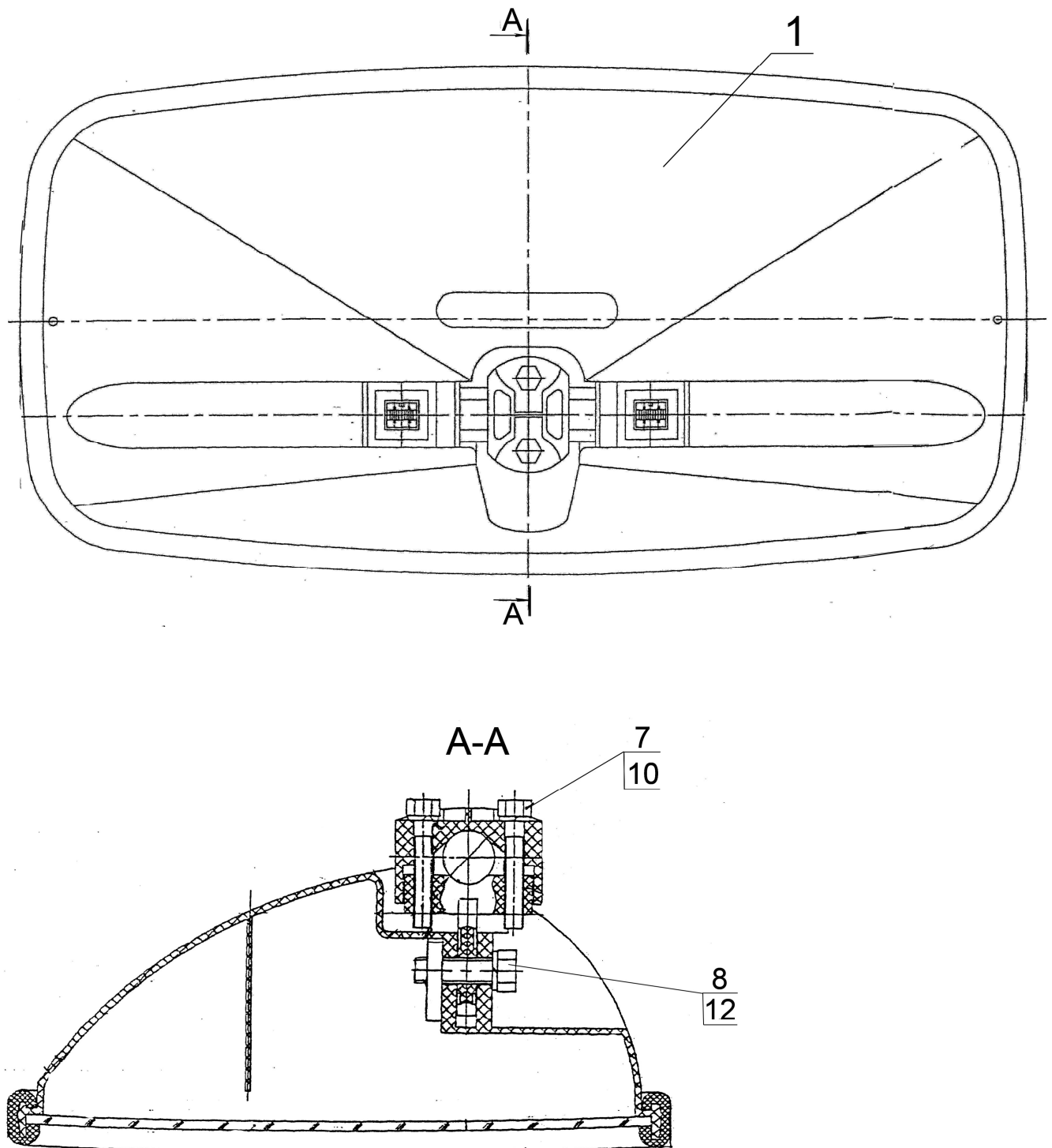


Fig. 82.2 Side rear-view mirror

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
82.2	1	883926	2	Rear-view mirror САҚД.458201.050 ТУ RB 700091832.0115-2004
	7	M6-6gx40.58.016	2	Bolt GOST 7808-70
	8	M8-6gx30.58.016	1	Bolt GOST 7808-70
	10	6.65Г.019	2	Washer GOST 6402-70
	12	8.01.08кп.016	1	Washer GOST 11371-78

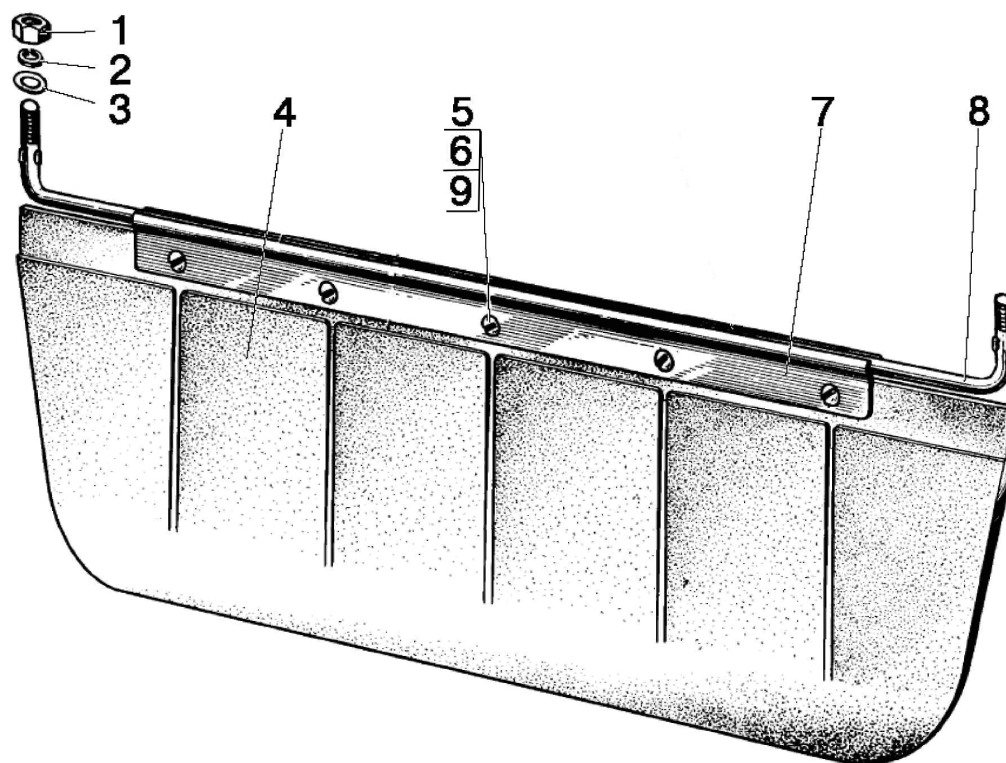


Fig. 82.3 Sun visor

Group 82. Cabin accessories
Subgroup 8201. Sun visor

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
82.3		80П-8204010	1	Sun visor (4-8)
	1	M6-6H.6.019 GOST 5915-70	2	Nut
	2	6T OST 37.001.115-75	2	Washer
	3	C 6.01.019 GOST 6958-78	2	Washer
	4	70-8204011-A	1	Sun visor
	5	B.M4-6gx10.58.019 GOST 17473-80	5	Screw
	6	M4-6H.6.019 GOST 5927-70	5	Nut
	7	70-8204014	2	Holder
	8	80П-8204011-01	1	Axis
	9	4 OST 37.001.115-75	5	Washer

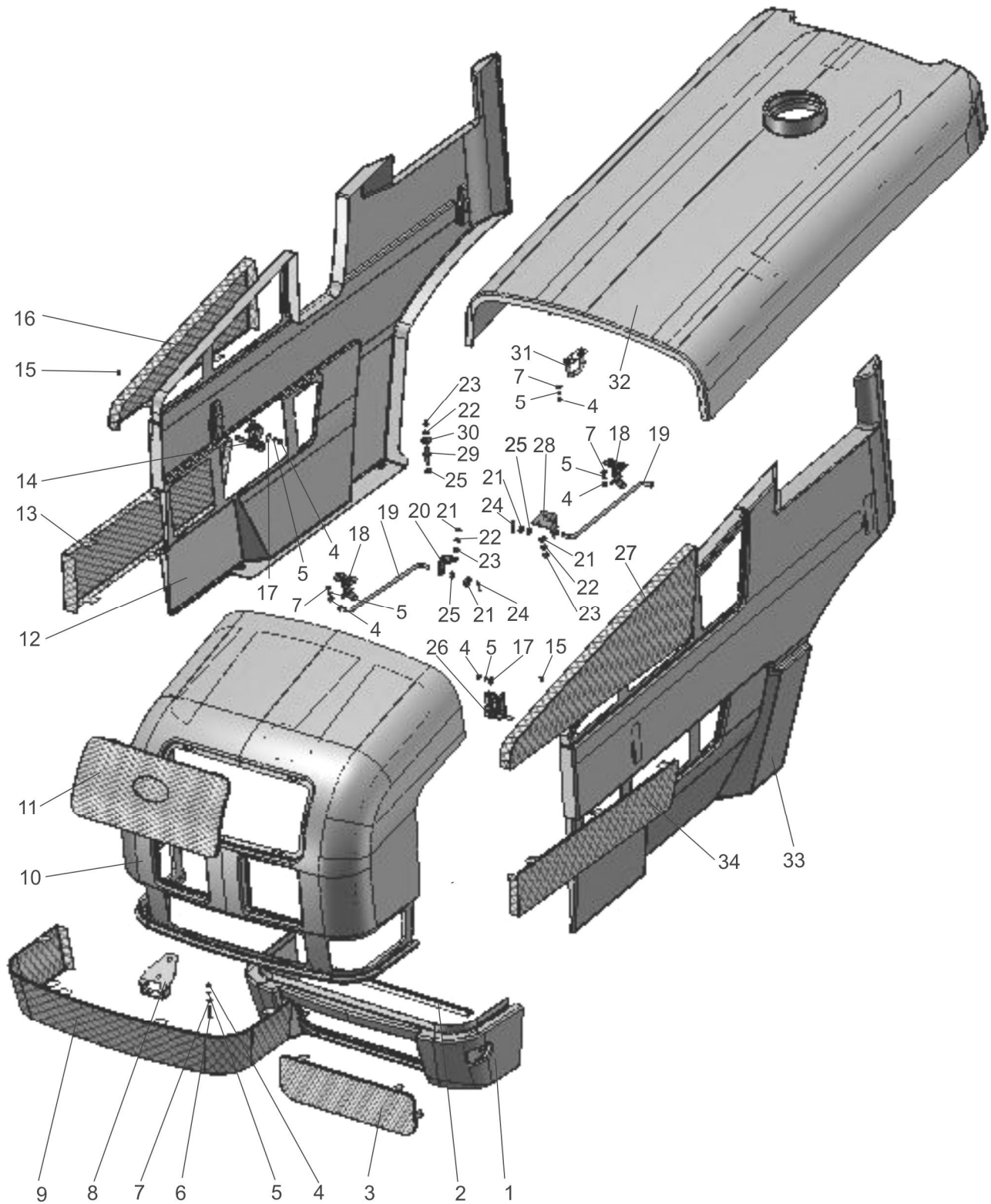


Fig.84.1 Facing

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
84.1 84.2	1	TA1222-8400025	1	Apron
	2	A 37.08.045	1	Seal
	3	923-8401088	1	Grill
	4	M6-6H.6.019	18	Nut GOST 5915-70
	5	6T	34	Washer OST 37.001.115-75
	6	B.M6-6gx40.58.019	2	Screw GOST 17475-86
	7	C6.01.019	10	Washer GOST 11371-78
	8	1523-8402420	1	Joke
	9	1523-8401087	1	Grill
	10	TA1222-8400015	1	Mask
	11	950.3-8401090	1	Grill
	12	TA1222-8402320	1	Side member
	13	1523-8402318	1	Grill
	14	923-8402410-01	2	Lock
	15	WFS-4213	6	Self-tapping screw
	16	1523-8402322	1	Grill
	17	C6.01.019	23	Washer GOST 6958-78
	18	950.3-8400050	2	Clamp
	19	90-8400070-01	2	Rod
	20	950.3-8400101	1	Bracket
	21	C8.01.019	18	Washer GOST 11371-78
	22	8T	42	Washer OST 37.001.115-75
	23	M8-6H.6.019	22	Nut GOST 5915-70
	24	3.2x25.019	8	Forelock GOST 397-79
	25	549A-1305044	6	Ring
	26	923-8402410	2	Lock
	27	1523-8402319	1	Grill
	28	950.3-8400102	1	Bracket
	29	923-8400011	4	Detent
	30	C8.01.019	28	Washer GOST 6958-78
	31	1221-8402420	1	Joke
	32	TA1222-8402020	1	Hood
	33	TA1222-8402310	1	Side member
	34	950.3-8402318	1	Grill
	35	1523-8402030	1	Frame
	36	1523-8402041	2	Bracket
	37	822-8400080-03	2	Control wire
	38	1523-8402039	2	Bracket



Fig. 84.2 Facing

Group 84. Fin assembly
Subgroup 8400. Facing

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
84.1	39	C12.01.019	1	Washer GOST 11371-78
	40	M12x1.25-6H.6.019	2	Nut GOST 5915-70
84.2	41	B.M5-6gx12.58.019	4	Screw GOST 17473-80
	42	70-4803023	2	Union body
	43	10 OT	4	Washer OST 37.001.115-75
	44	M10-6gx30.88.35.019	4	Bolt GOST 7796-70
	45	70-3401093	10	Lever tip
	46	923-8400033	6	Stem
	47	M10-6H.6.019	10	Nut GOST 5915-70
	48	920-8400140	1	Support
	49	80-8402410	2	Lock
	50	M6-6gx16.88.35.019	8	Bolt GOST 7798-70
	51	1523-8402060	1	Arc
	52	M8-6gx20.88.35.019	13	Bolt GOST 7796-70
	53	1523-8402085	2	Bracket
	54	M6-6gx14.88.35.019	4	Bolt GOST 7798-70
	55	1321-8402095-B	2	Detent
	56	M6-6gx20.88.35.019	4	Bolt GOST 7798-70
	57	923-8400060	1	Bracket
	58	1523-8400170	1	Support
	59	920-8400140-01	1	Support
	60	21054	1	Air hoist
	61	80-6707096	1	Axis
	62	923-8400140-01	2	Support
	63	923-8402095-B	2	Detent
	64	923-8400045	4	Hinge
	65	923-8400040	2	Support
	66	M8-6gx30.88.35.019	4	Bolt GOST 7796-70
	67	923-8400031	4	Axis
	68	1222.4-8402045	1	Stabilizer
	69	1523-8402070	1	Rack
	70	923-8400033-01	2	Stem
	71	1523-8402110	1	Plate
	72	M8-6gx40.88.35.019	2	Bolt GOST 7795-70
	73	M6-6gx45.88.35.019	2	Bolt GOST 7795-70
	74	80-6708225	1	Bracket
	75	90-8400012-B	1	Bracket
	76	M8-6gx45.88.35.019	2	Bolt GOST 7795-70
	77	1221.4-8400086	1	Stabilizer
	78	M10-3p/6gx45.66.019	2	Stud GOST 22034-76
	79	M8-6gx50.88.35.019	1	Bolt GOST 7795-70
	80	2522-6702066	1	Bushing
	81	M12-6gx30.88.35.019	2	Bolt GOST 7796-70
	82	12 OT	2	Washer OST 37.001.115-75
	83	C10.01.019	4	Washer GOST 6958-78

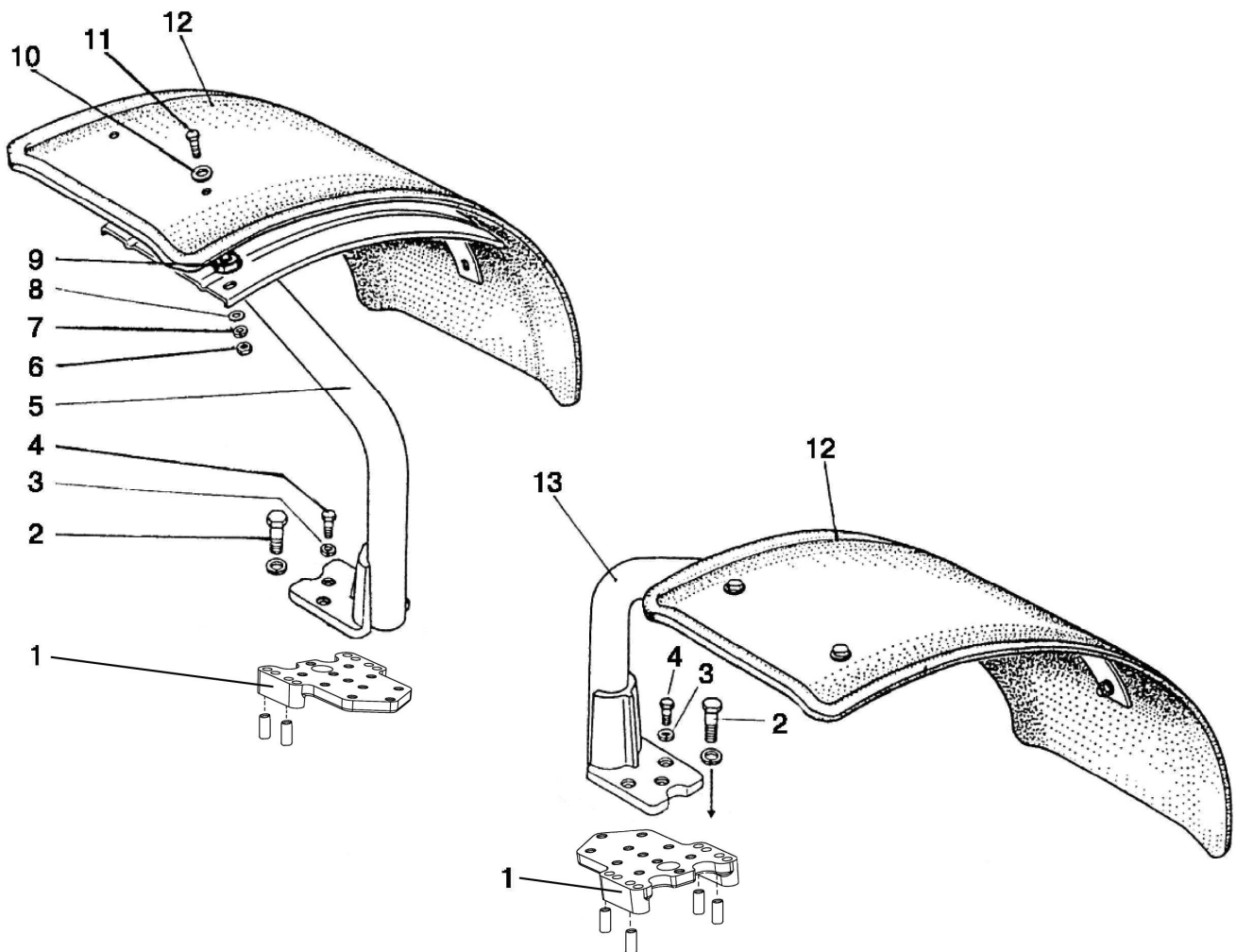


Fig. 84.3 Front wings

Group 84. Fin assembly
Subgroup 8403. Front wings

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
84.3	1	822-8403011-Б	2	Base
	2	M12x85	8	Bolt
	3	ШП12	14	Washer
	4	M12X30	6	Bolt
	5	2022-8403015-01	1	Rack
	6	M10	10	Nut
	7	ШП10	10	Washer
	8	ШЧ10	10	Washer d=21 mm
	9	80-4616017	10	Roller
	10	ШЧ 10	10	Washer d=30 mm
	11	M 10x25	10	Bolt
	12	1221-8403014-Б-02 or 1221-8403014-Б1-02	2 2	Wing Wing
	13	2022-8403015	1	Rack
	14	2022-8403012	8	Bushing

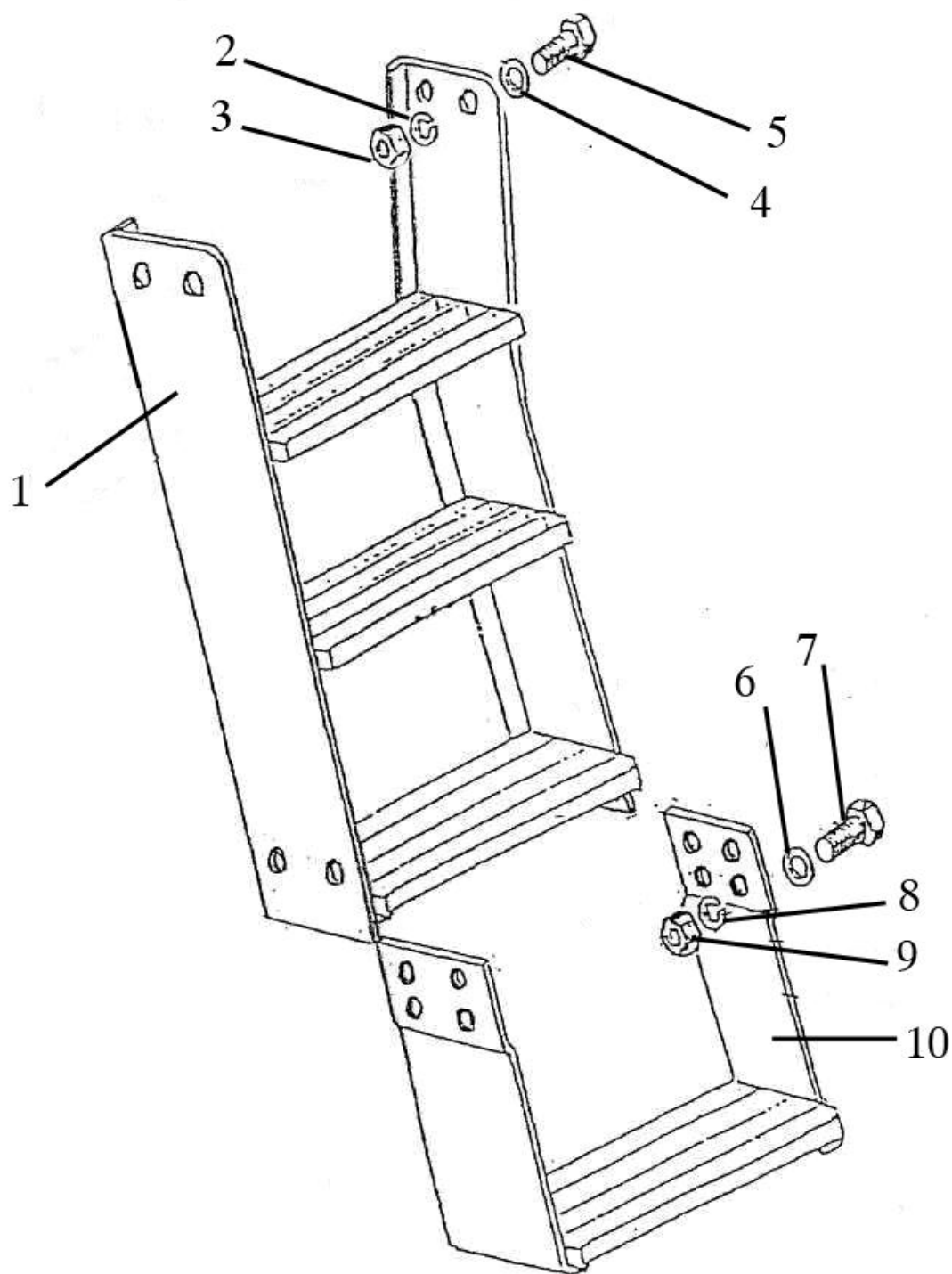


Fig. 84.4 Foot step

Group 84. Fin assembly
Subgroup 8405. Foot step

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
84.4		1522-84050 05	1	Foot step (1-10)
	1	2522-8405010	1	Foot step
	2	12 OT	4	Washer
	3	M12	4	Nut
	4	C 12.01.019	4	Washer
	5	M 12x35	4	Bolt
	6	C 10.01.019	4	Washer
	7	M 10x25	4	Bolt
	8	10 OT	4	Washer
	9	M10	4	Nut
	10	2522-8405020	1	Foot step

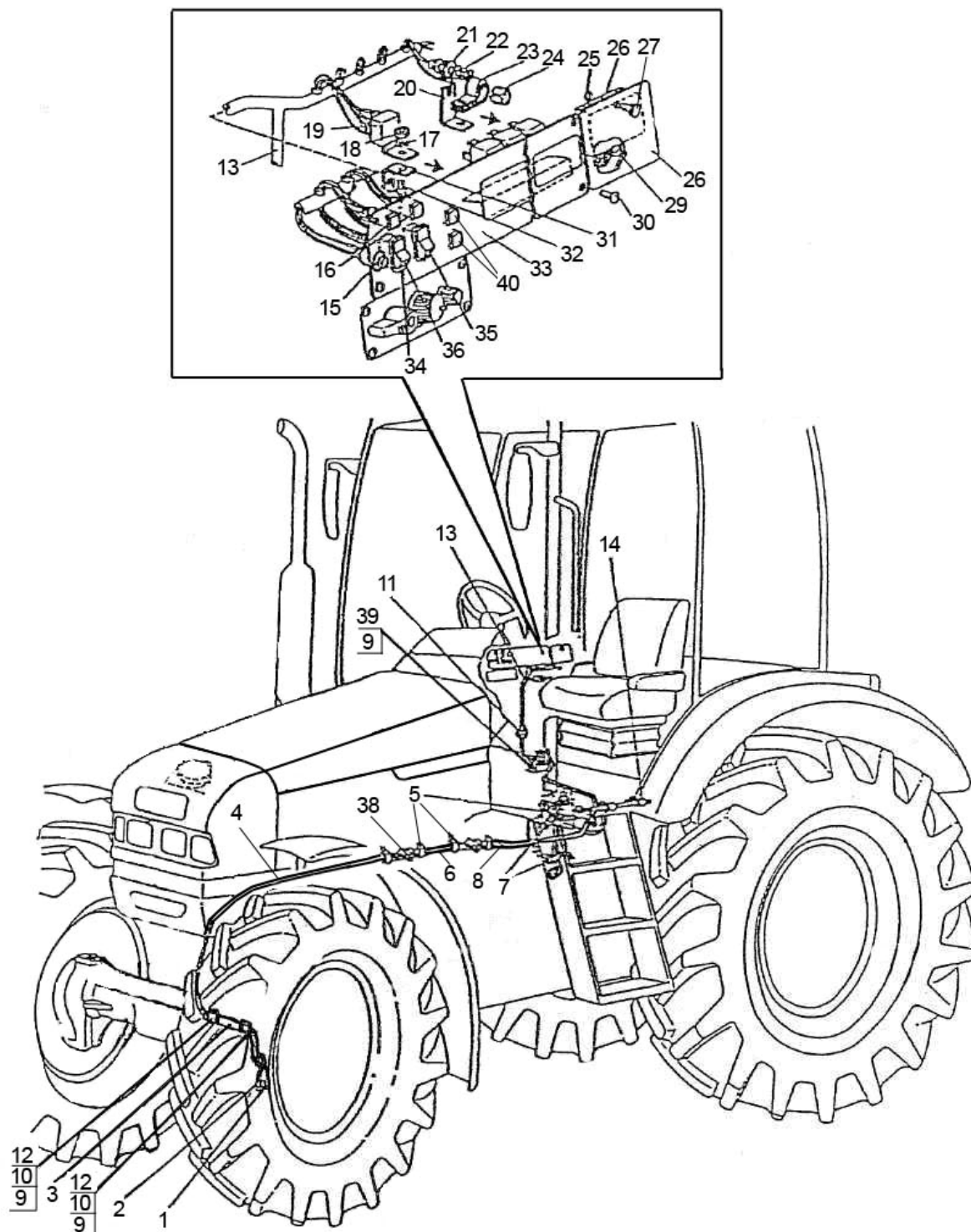


Fig.87.1 Control of DL and FDA (with GB 16x8 and FDA 1222-2300020-05)

Group 87. Control system
Subgroup 8700. Control of DL and FDA 1522-8700410-Д

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
87.1	1	50-1702048	10*	Shim
	2	BK 12-51 TU RB 37334210.004-97	1	Switch
	3	1222-8700021	1	Pipe
	4	1221-3724840-B	1	Harness
	5	80-3723045-01	10	Collar
	6	1222-3724850-02	1	Harness
	7	80-3723045	5	Collar
	8	1522-3724830-Д	1	Harness
	9	8T OST 37.001.115-75	4	Washer
	10	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	11	70-3723042-01	1	Bushing
	12	1221-8700022	2	Clamp
	13	1522-3724820-E	1	Harness
	14	1522-8700212	2	Joke
	15	BK12-1 ЦИКС 642241.001 TU	1	Switch
	16	12.3803-31 TU RB 300228919.037-2002 or 2202.3803-34 TU 37.003.1109-82	2	Warning light
	17	6T OST 37.001.115-75	5	Washer
	18	M6-6H.6.019 GOST 5915-70	5	Nut
	19	90.3747 TU 37.003.1418-94 or	7	Relay
		3747.40	4	Cut-in relay 30A
		3747.50	3	Cut-in relay 20A
	20	1522-8700221-A	1	Bracket
	21	1522-8700222	1	Bushing
	22	5T OST 37.001.115-75	3	Washer
	23	1321-8700019	1	Clamp
	24	ПР-32-01	1	Seal
	25	006-010-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	26	БП-1 TU RB 03428193.095-97	1	Fuse block
	27	80-3805065	1	Screw
	28	822-3801341	1	Shield
	29	80-3724410-06	1	Cable
	30	B.M6-6gx20.58.019 GOST 17474-80	4	Screw
	31	1522-8700221	1	Bracket
	32	B.M6-6gx16.58.019 GOST 17473-80	5	Screw
	33	2022-8700465	1	Panel
	34	80-3801021	2	Switch socket
	35	П150М-06.14 TU RB 14795799.001-97 or П150-06.17 TU 37.003.701-75	1	Switch
	36	П147М-06.49 TU RB 14795799.001-97 or П147-06.17 TU 37.003.701-75	1	Switch
	38	602602 OST 37.003.032-88	1	Female socket
	39	M8-6gx14.88.35.019 GOST 7798-70	2	Bolt
	40	12.3803-41 TU RB 300228919.037-2002	2	Warning light

* Maximum quantity

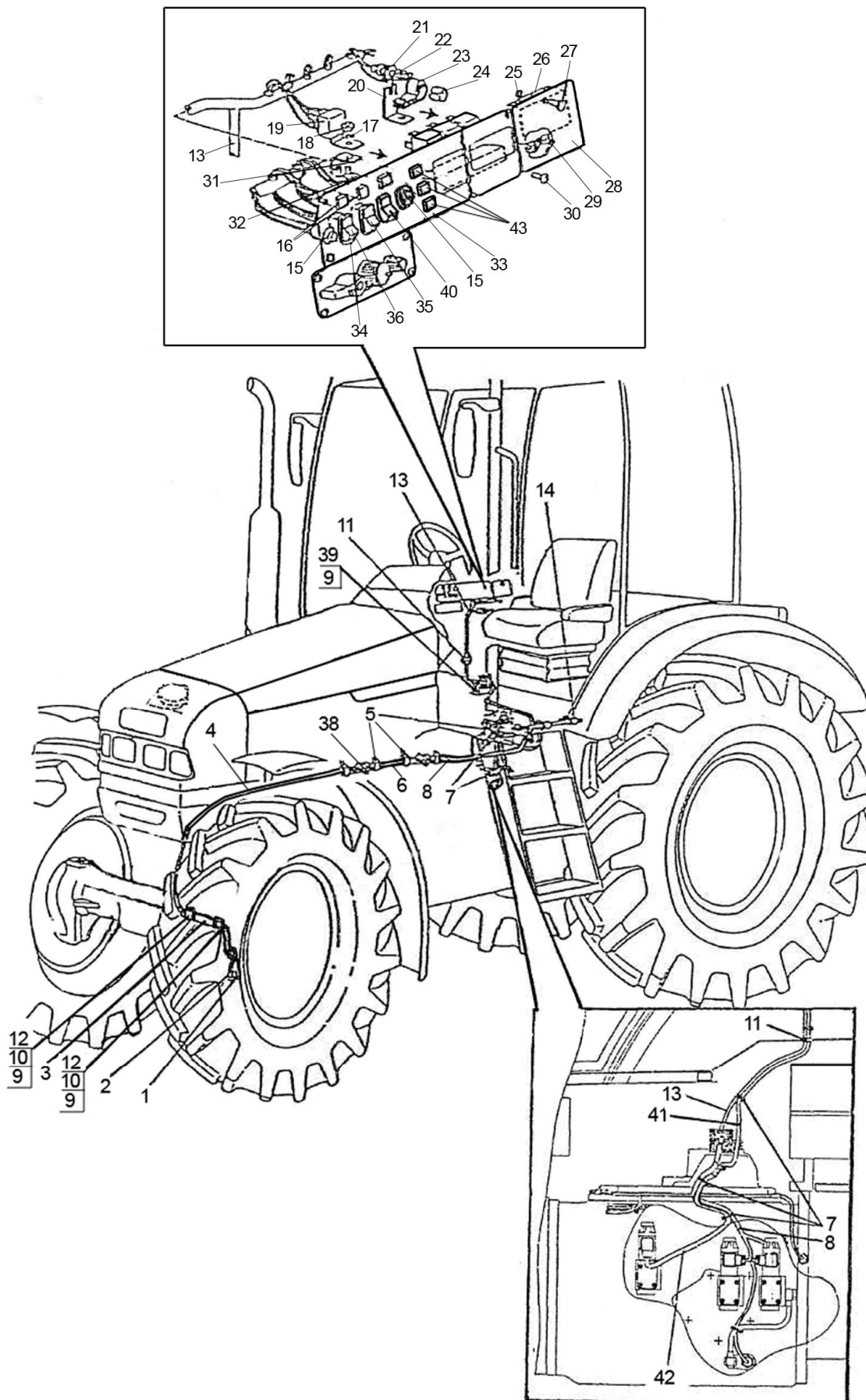


Fig.87.2 Control of DL, FDA and front PTO shaft 1523-8700210-Д

Group 87. Control system
Subgroup 8700. Control of DL and FDA and front PTO shaft 1523-8700210-Д

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
87.2	1	50-1702048	10*	Shim
	2	BK 12-51 TU RB 37334210.004-97	1	Switch
	3	1222-8700021	1	Pipe
	4	1221-3724840-B	1	Harness
	5	80-3723045-01	10	Collar
	6	1222-3724850-02	1	Harness
	7	80-3723045	14	Collar
	8	1522-3724830-Д	1	Harness
	9	8T OST 37.001.115-75	4	Washer
	10	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	11	70-3723042-01	1	Bushing
	12	1221-8700022	2	Clamp
	13	1522-3724820-E	1	Harness
	14	1522-8700212	2	Joke
	15	BK12-1 ЦИКС 642 241.001 TU	2	Switch
	16	12.3803-31 TU RB 300228919.037-200 or 2202.3803-34 TU 37.003.1109-82	3	Warning light
	17	6T OST 37.001.115-75	6	Washer
	18	M6-6H.6.019 GOST 5915-70	6	Nut
	19	90.3747 TU 37.003.1418-94 or	8	Relay
		3747.40	5	Cut-in relay 30A
		3747.50	3	Cut-in relay 20A
	20	1522-8700221-A	1	Bracket
	21	1522-8700222	1	Bushing
	22	5T OST 37.001.115-75	4	Washer
	23	1321-8700019	1	Clamp
	24	ПР-32-01	1	Seal
	25	006-010-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	26	БП-1 TU RB 03428193.095-97	1	Fuse block
	27	80-3805065	1	Screw
	28	822-3801341	1	Shield
	29	80-3724410-06	1	Cable
	30	B.M6-6gx20.58.019 GOST 17474-80	4	Screw
	31	1522-8700221	2	Bracket
	32	B.M6-6gx16.58.019 GOST 17473-80	6	Screw
	33	2522-8700215	1	Panel
	34	80-3801021	3	Switch socket
	35	П150M-06.14 TU RB 14795799.001-97 or П150-06.17 TU 37.003.701-75	1	Switch
	36	П147M-06.49 TU RB 14795799.001-97 or П147-06.49 TU 37.003.701-75	1	Switch
	38	602602 OST 37.003.032-88	1	Female socket
	39	M8-6gx14.88.35.019 GOST 7798-70	2	Bolt
	40	П147M-01.17 TU RB 14795799.001-97 or П147-01.17 TU 37.003.701-75	1	Switch
	41	1523-3724940	1	Harness
	42	1523-3724950-Д	1	Harness
	43	12.3803-41 TU RB 300228919.037-2002	3	Warning light

* Maximum quantity

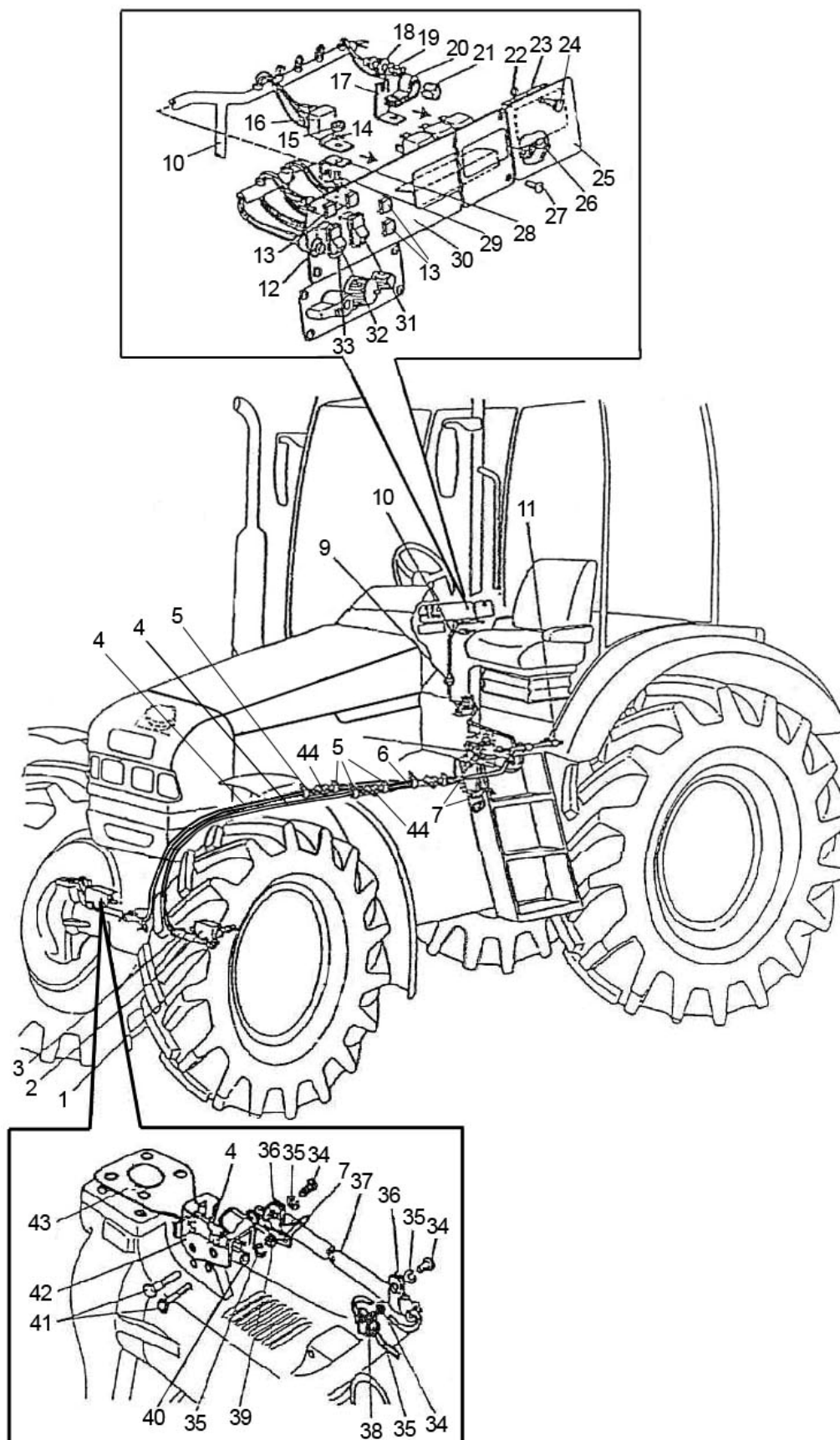


Fig.87.3 Control of DL, FDA and reduction unit (with GB 24x12 and FDA 1525-2300020)

Group 87.Control system
Subgroup 8700. Control of DL, FDA and reduction unit 2022-8700450-Д

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
87.3	1	2022-8700030	1	Bracket (left)
	2	2022 -8700027	1	Bracket
	3	2022-8700028	1	Pipe
	4	ЭВИТ-С3	2	Switch
	5	80-3723045-01	11	Collar
	6	1522-3724850	1	Harness
	7	80-3723045	10	Collar
	8	2022-3724930-Д	1	Harness
	9	70-3723042-02	1	Bushing
	10	2022-3724920-E	1	Harness
	11	822-3723044	1	Clamp
	12	ВК 12-1 ЦИКС 642241.001 TU	1	Switch
	13	12.3803-31 TU RB 300228919.037-2002 or 2202.3803-34 TU 37.003.1109-82	4	Warning light
	14	6T OST 37.001.115-75	7	Washer
	15	M6-6H.6.019 GOST 5915-70	7	Nut
	16	90.3747 TU 37.003.1418-94 or	10	Relay
		3747.40	6	Cut-in relay 30A
		3747.50	4	Cut-in relay 20A
	17	1522-8700221-A	1	Bracket
	18	1522-8700222	1	Bushing
	19	5T OST 37.001.115-75	4	Washer
	20	1321-8700019	1	Clamp
	21	ПР-32-01	1	Seal
	22	006-010-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	23	БП-1 TU RB 03428193.095-97	1	Fuse block
	24	80-3805065	1	Screw
	25	822-3801341	1	Shield
	26	80-3724410-06	1	Cable
	27	В. М6-6gx20.58.019 GOST 17474-80	4	Screw
	28	1522-8700221	2	Bracket
	29	В.М6-6gx16.58.019 GOST 17473-80	7	Screw
	30	2022-8700465	1	Panel
	31	П150М-06.14 TU RB 14795799.001-97 or П150-06.17 TU 37.003.701-75	1	Switch
	32	П147М-06.49 TU RB 14795799.001-97 or П147-06.17 TU 37.003.701-75	1	Switch
	33	80-3801021	2	Switch socket
	34	M8-6gx16.88.35.019 GOST 7796-70	6	Bolt
	35	8T OST 37.001.115-75	10	Washer
	36	1321-8700029	4	Clamp
	37	2022-3700028 -01	1	Pipe
	38	50-3723021	2	Jokey
	39	M8-6H.6.019 GOST 5915-70	4	Nut
	40	C8.01.019 GOST 11371-78	4	Washer
	41	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	42	2022-8700027-01	1	Bracket
	43	2022-8700030-01	1	Bracket (right)
	44	502604 OST 37.003.032-88	2	Male socket

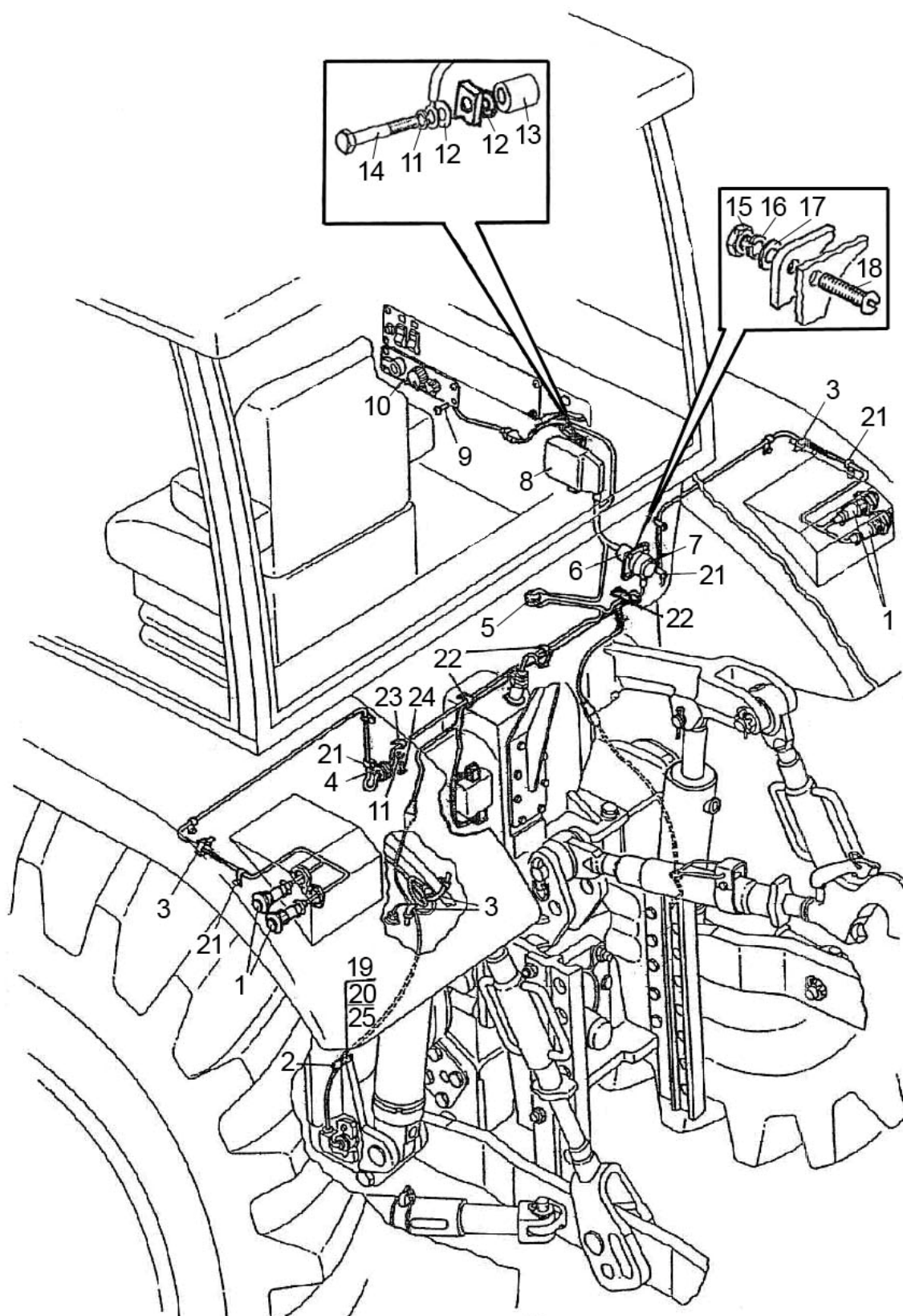


Fig.87.4 Control of lift linkage 1522-8700610

Group 87.Control system
Subgroup 8700. Control of lift linkage 1522-8700610

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
87.4	1	145 000 AB	4	Button switch
	2	50-3723021	2	Joke
	3	80-3723045-01	5	Collar
	5	70-3723042-02	1	Bushing
	6	1523-3724890	1	Harness
	7	1523-3724895	1	Harness
	8	R 917 004 743	1	Electronics assembly
	9	B.M4-6gx20.58.019 GOST 17474-80	4	Screw
	10	0 538 201 611	1	Control panel
	11	6T OST 37.001.115-75	6	Washer
	12	C6 .01.019 GOST 6958-78	4	Washer
	13	P50-4616023	2	Bushing
	14	M6-6gx35.88.019 GOST 7798-70	2	Bolt
	15	M3-6H.6.019 GOST 5927-70	4	Nut
	16	3T OST 37.001115-75	4	Washer
	17	C3.01.019 GOST 11371-78	4	Washer
	18	B.M3-6gx16.59.019 GOST 17473-80	4	Screw
	19	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	20	8T OST 37.001.115-75	2	Washer
	21	1221-8700022	8	Clamp
	22	1321-8700019-01	3	Clamp
	23	1321-8700019-02	1	Clamp
	24	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	25	M8-6H.6.019 GOST 5915-70	2	Nut

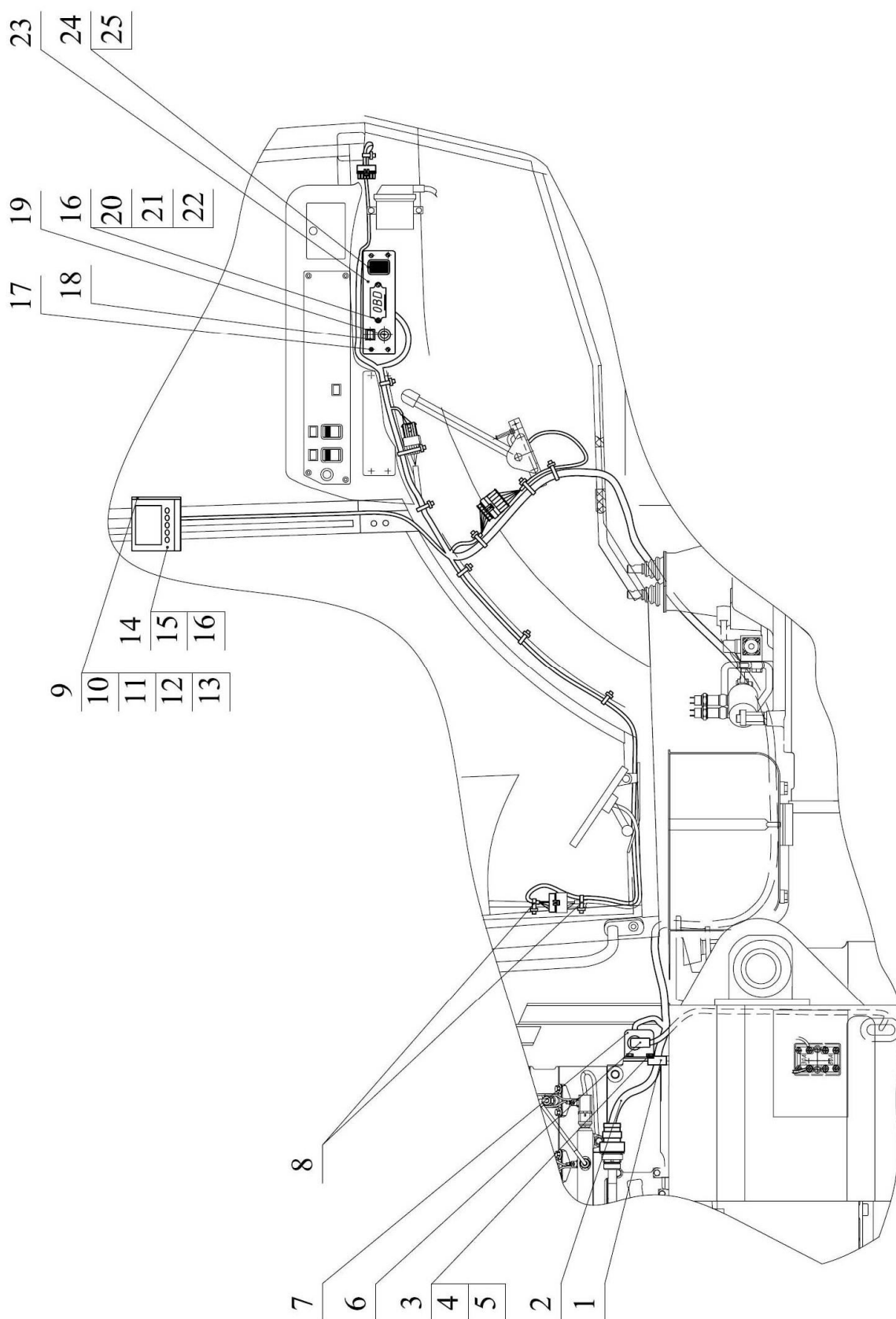


Fig.87.5 Control of MMZ engine 2022.4-8700910-M

Group 87. Control system
Subgroup 8700. Control of MMZ engine 2022.4-8700910-M

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
87.5	1	50-4607064	1	Bushing
	2	2022.4-3724960-M	1	Harness
	3	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	4	C8.01.019 GOST 11371-78	2	Washer
	5	8T OST 37.001.115-75	2	Washer
	6	1221.4-3724965-M	1	Harness
	7	1221.4-8700938-M	1	Bracket
	8	80-3723045-01	12	Collar
	9	2022Д.4-8700944-Б	1	Bracket
	10	M6-6gx25.88.35.019 GOST 7798-70	2	Bolt
	11	C6.01.019 GOST 11371-78	2	Washer
	12	6T OST 37.001.115-75	2	Washer
	13	A30.04.017	2	Cap
	14	918013	1	Information display
	15	B.M4-6gx10.58.019 GOST 17473-80	4	Screw
	16	4 OST 37.001.115-75	6	Washer
	17	B.M4-6gx20.58.019 GOST 17474-80	4	Screw
	18	12.3803-31 or (2202.3803-34)	1	Warning light
	19	BK12-1	1	Switch
	20	B.M4-6gx16.58.019 GOST 17473-80	2	Screw
	21	M4-6H.6.019 GOST 5927-70	2	Nut
	22	C4.01.019 GOST 11371-78	2	Washer
	23	2022.4-8700916-M	1	Panel
	24	80-3801021	1	Switch socket
	25	80-3801327	1	Blind plug