
BELARUS ***1221.4***

with motor TCD 2012 L062V (104,6 kW)

1221.4-0000010 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.

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INTRODUCTION

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

HOW TO USE THE CATALOGUE

The catalogue consists of three parts:

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

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

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

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

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

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

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

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

For example, parts "240-1104300-01 (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". Typical sizes of rolling-contact bearings, collars and rubber O-rings, as well as their mounting location and quantity per tractor are given in Part II "Standardized units".

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

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

APPLICATION

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

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

Adopted abbreviations and conventional notations:

GOST – State Standard

OST – Industry-specific standard

TU – Technical Specifications

TU RB – Technical Specifications of the Republic of Belarus

MMZ – Minskiy Motorny Zavod (Minsk Motor Plant)

KDS – Catalogue of parts and assembly units

KD – Catalogue of parts

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

Russian (Cyrillic Alphabet) Symbols	English Equivalents	Russian (Cyrillic Alphabet) Symbols	English Equivalents
А	A	ШП 8	SHP 8
Б	B	...КЗС...	...KZS...
В	V	СЧ-114Б; СШ	SCH-114B; SSH
Г	G	ХЧП 10; ХЧМ	HCHP 10; HCHM
Гг	Gg	ТКРН-3	TKRN-3
Д	D	АМОВТ	AMOVT
Ж	ZH	ХС-26	HS-26
З	Z	ПКШ 1/8"	PKSH 1/8"
И	I	Р75-ВЗВР	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		

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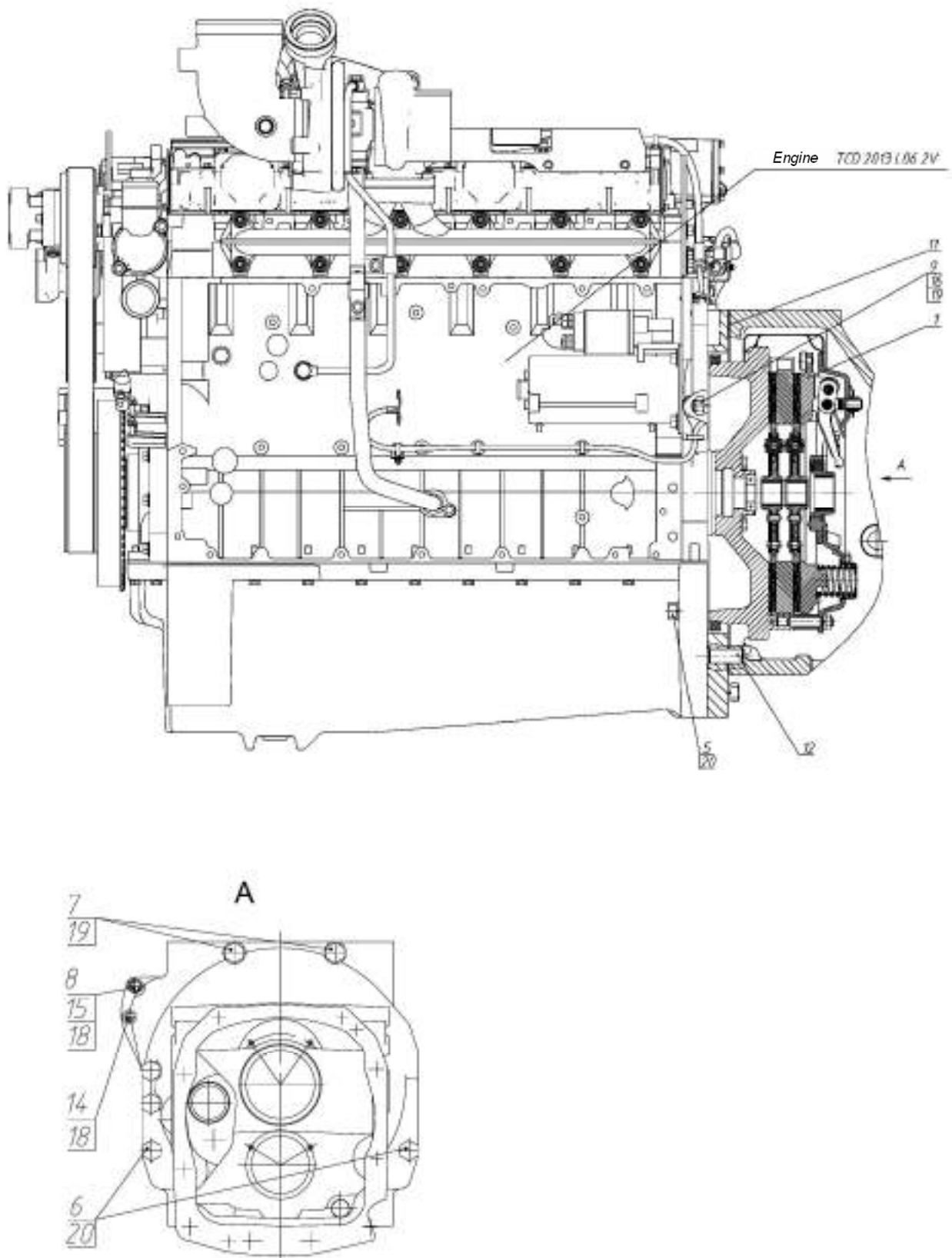


Fig. 10.1 Engine installation

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
10.1		2022.4-1001001-Б-01	1	Engine installation
	1	1523Д-1005009	1	Clutch installation
	5	2022Д-1001206	2	Bolt
	6	2022Д-1001206-01	4	Bolt
	7	2022Д1001207-02	2	Bolt
	8	2022Д-1001208	1	Bolt
	9	2022Д-1001304	1	Stud
	11	1523.4-1001011	1	Gasket
	12	80М-2407039	2	Pin
	14	M14-6gx60.88.35.019	1	Bolt GOST 7795-70
	15	M14-6H.8.019	1	Nut GOST 5915-70
	16	M16-6H.6.019	1	Nut GOST 5915-70
	18	14 OT	2	Washer OST 37.001.115-75
	19	16 OT	3	Washer OST 37.001.115-75
20	20 OT	6	Washer OST 37.001.115-75	

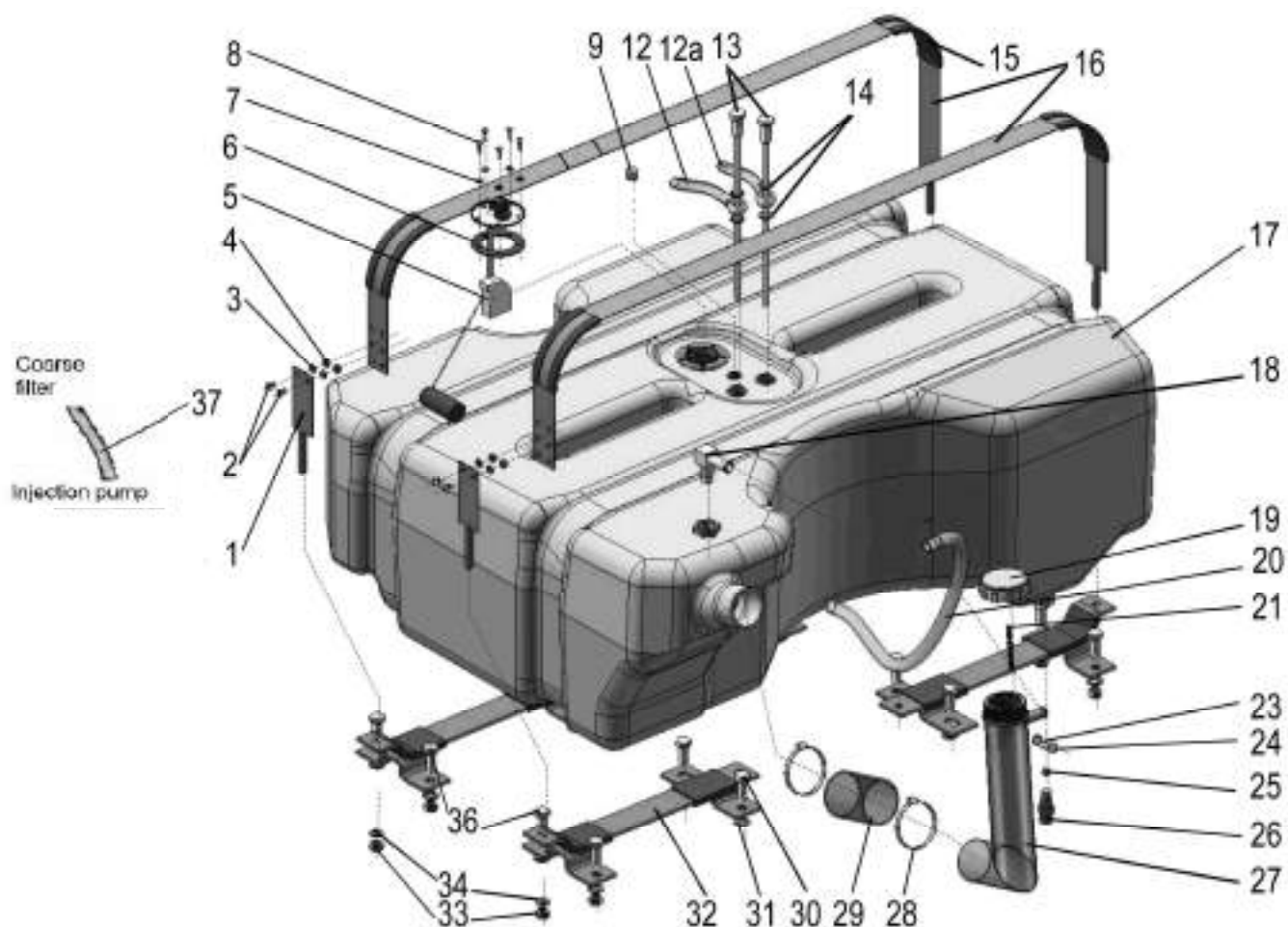


Fig.11.1 Fuel tank

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

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

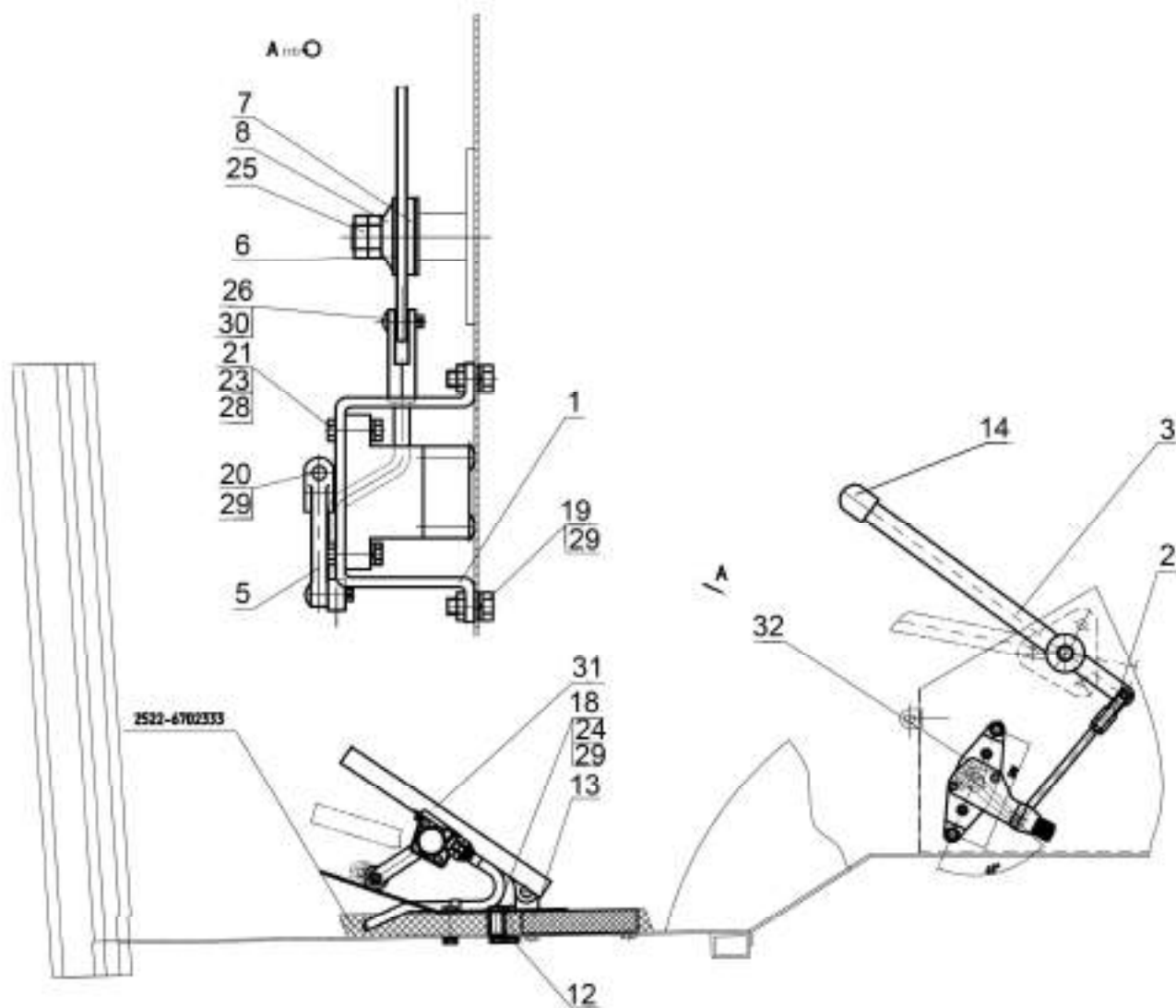


Fig.11.2. Fuel supply control

Subgroup 1108. Fuel supply control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
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	EAXX-EXP0023 or 225360	1	Electronic pedal	
32	EAXX-EFT1743	1	Manual control sensor	

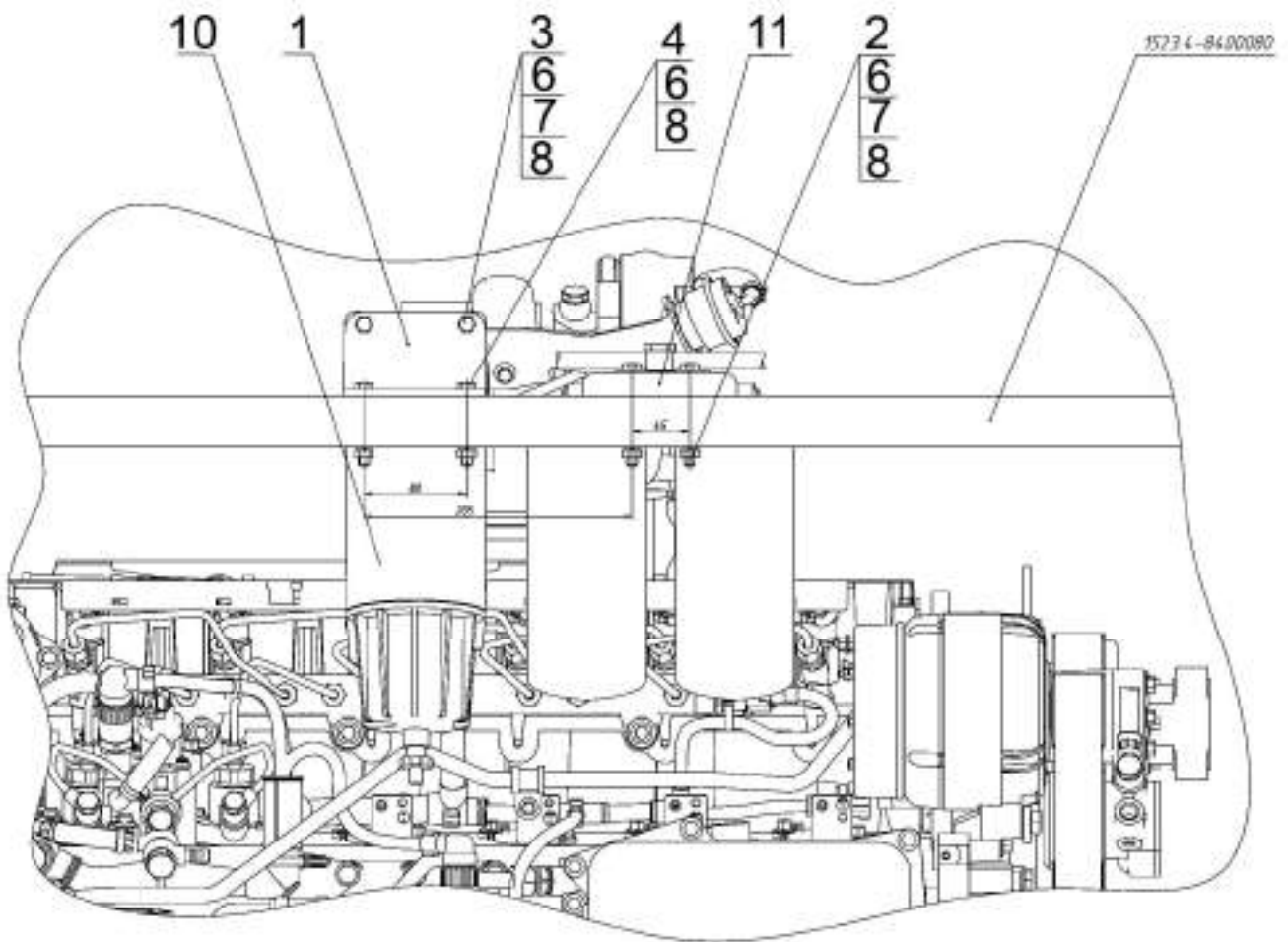


Fig. 11.3 Fuel filter installation

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

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

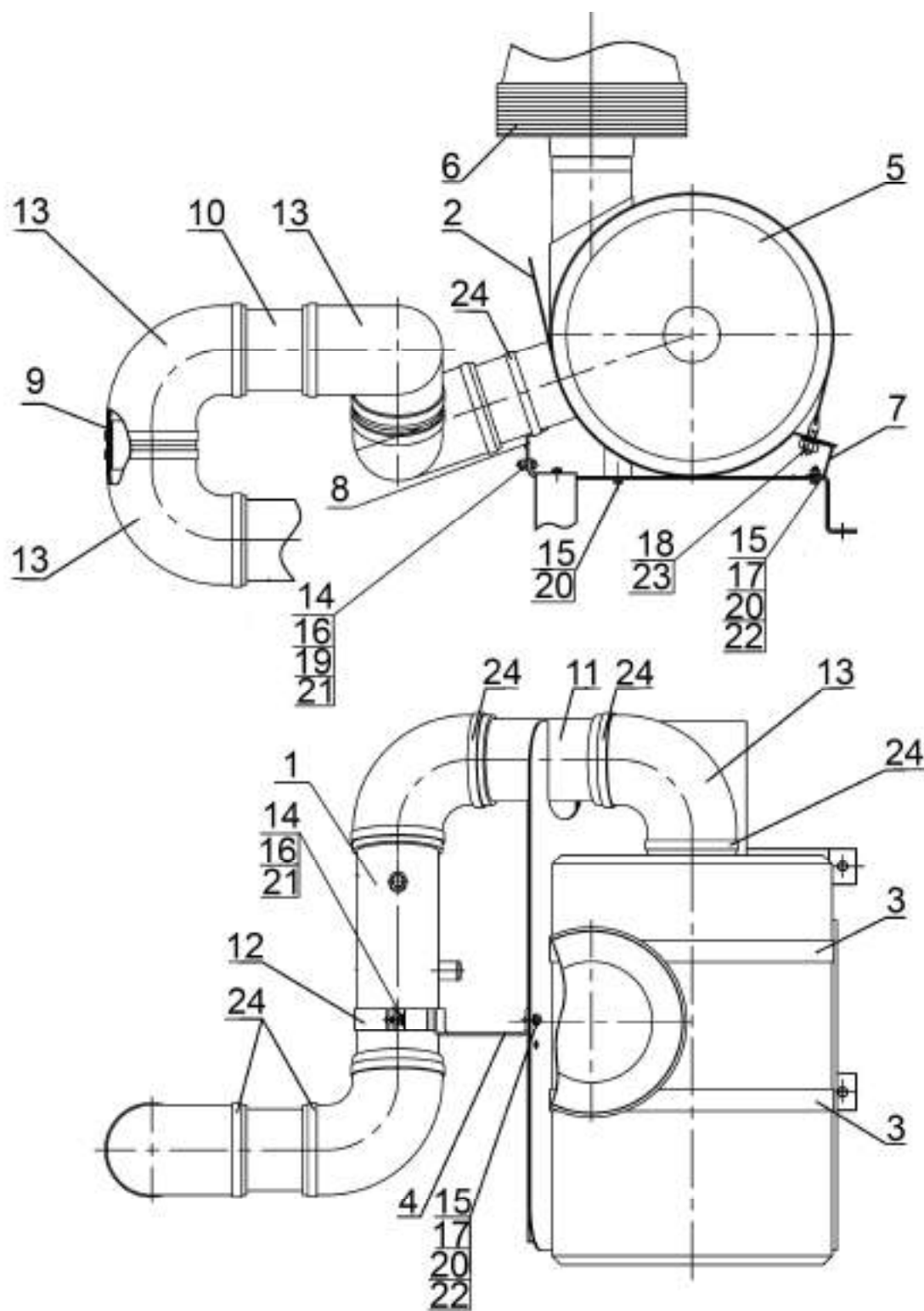


Fig. 11.4 Air cleaner installation

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

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

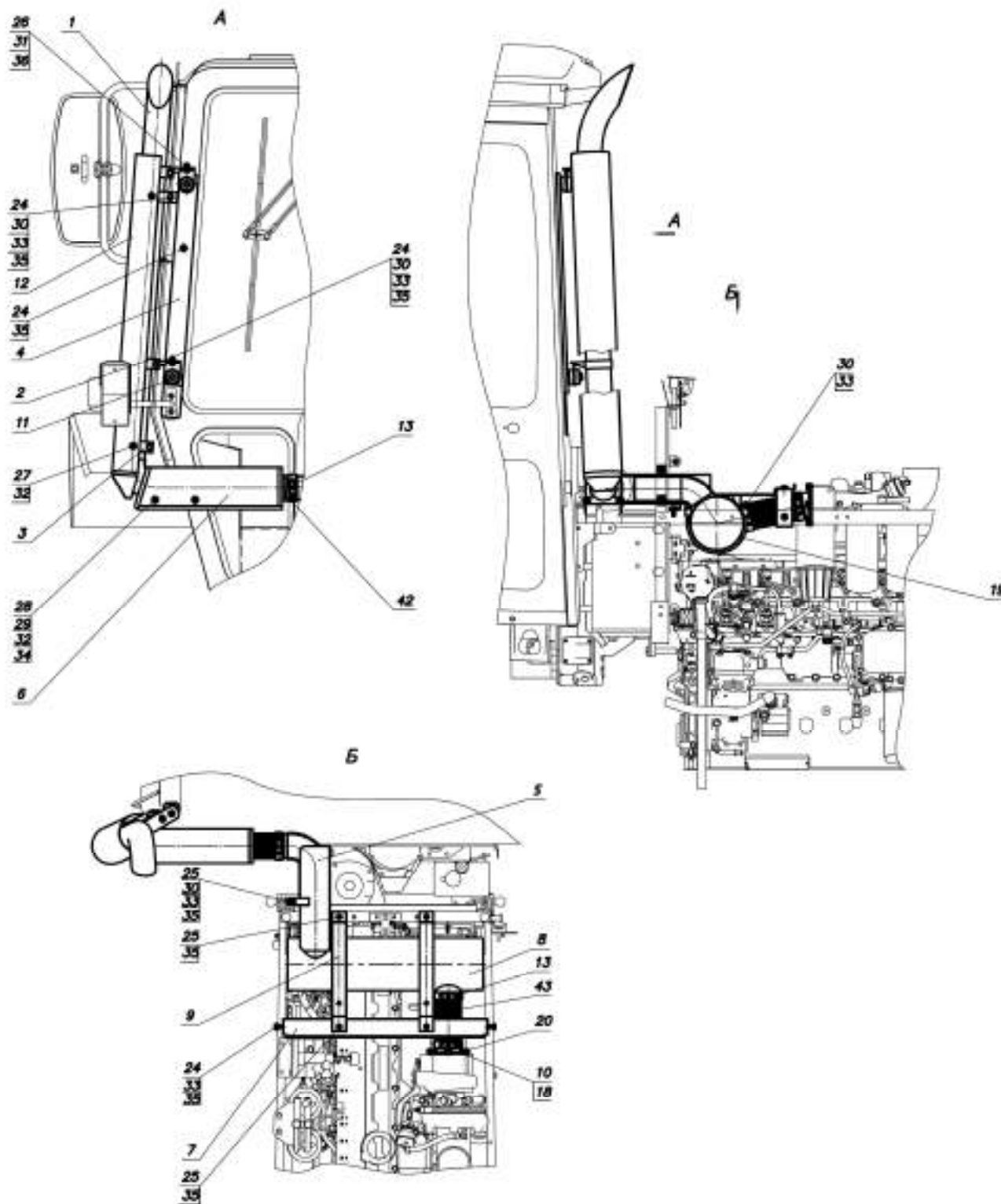


Fig. 12.1 Muffler installation

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

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

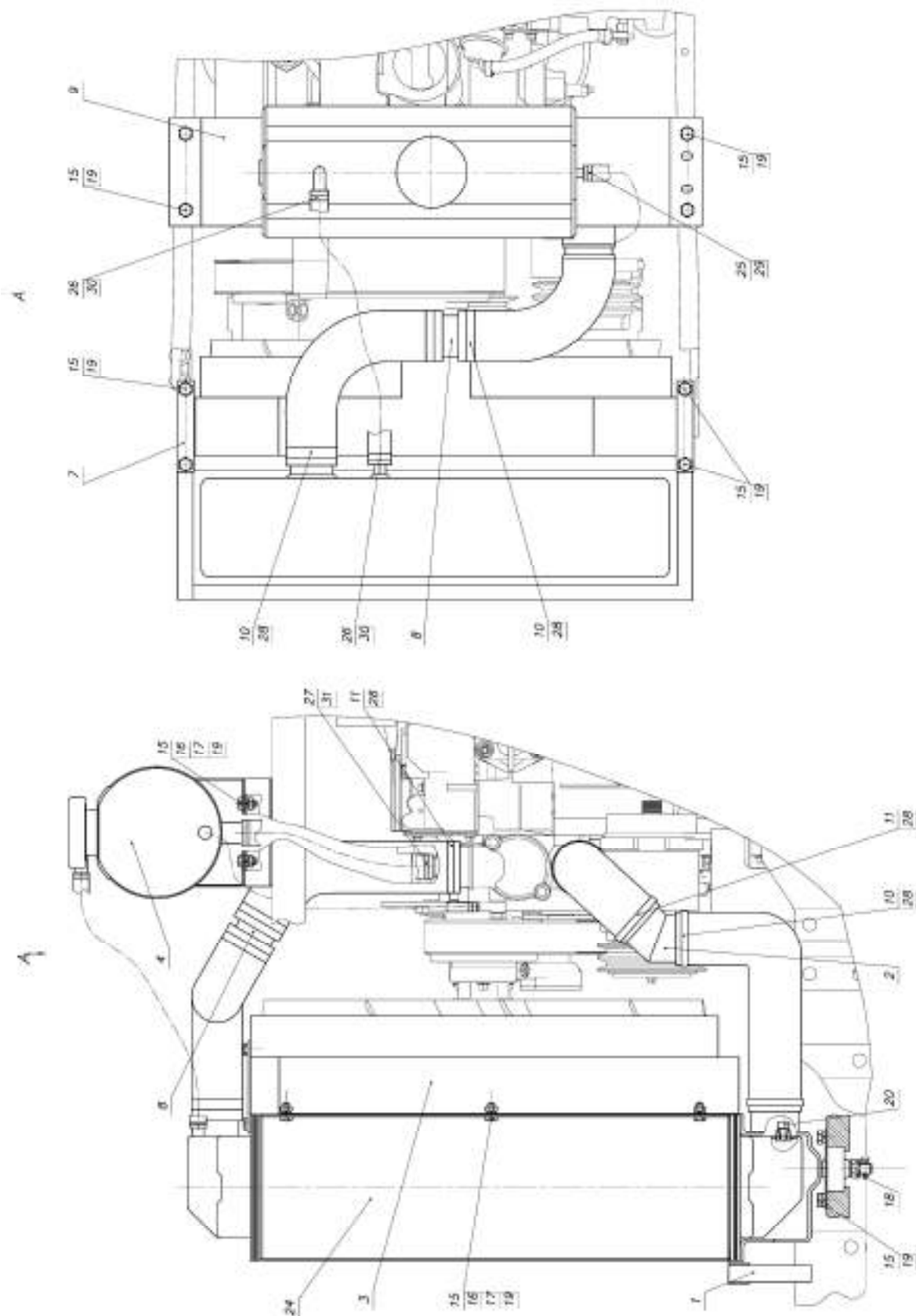


Fig. 13.1 Cooling unit 1523Д-1301009

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
13.1	1	1523-1301320	1	Seal
	2	1523Д-1303030	1	Pipe
	3	1523Д-1309080	1	Housing
	4	1523Д-1311010	1	Expansion tank
	7	1523Д-1302001	2	Plate
	8	1523Д-1302011	1	Adapter
	9	1523Д-1311031	1	Bracket
	10	142-1303010	2	Hose
	15	M8-6gx16.88.35.019	22	Bolt GOST 7796-70
	16	M8-6H.04.019	10	Nut GOST 5915-70
	17	C8.01.08.019	110	Washer GOST 6958-78
	18	3.2x25.019	2	Forelock GOST 397-79
	19	8Т	22	Washer OST 37.00115-75
	20	КГ 1/4".А12.019	1	Plug TU 23.1.506-91
	24	1520Д-1301010	1	Water radiator TU 4791-004-11943236-2006
	25		2	Clamp with worm thread 12-22 or Clamp/Clamp NORMA TORRO 12-22/971 or Clamp «NORMA» TORRO 12-20/9-C6W
	26		2	Clamp with worm thread 16-25 or Clamp/Clamp NORMA TORRO 16-27/971 or Clamp «NORMA» TORRO 12-25/9-C6W
	27		2	Clamp with worm thread 25-40 or Clamp/Clamp NORMA TORRO 25-40/971 or Clamp «NORMA» TORRO 25-40/9-C6W
	28		10	Clamp with worm thread 50-70 or Clamp/Clamp NORMA TORRO 50-70/971 or Clamp «NORMA» TORRO 50-70/9-C6W
	29		L=400 mm	Hose 10x18.5 GOST 10362-76
	30		L=600 mm	Hose 14x23-1.6 GOST 10362-76
31		L=600 mm	Hose 25x36-1.6 GOST 10362-76	

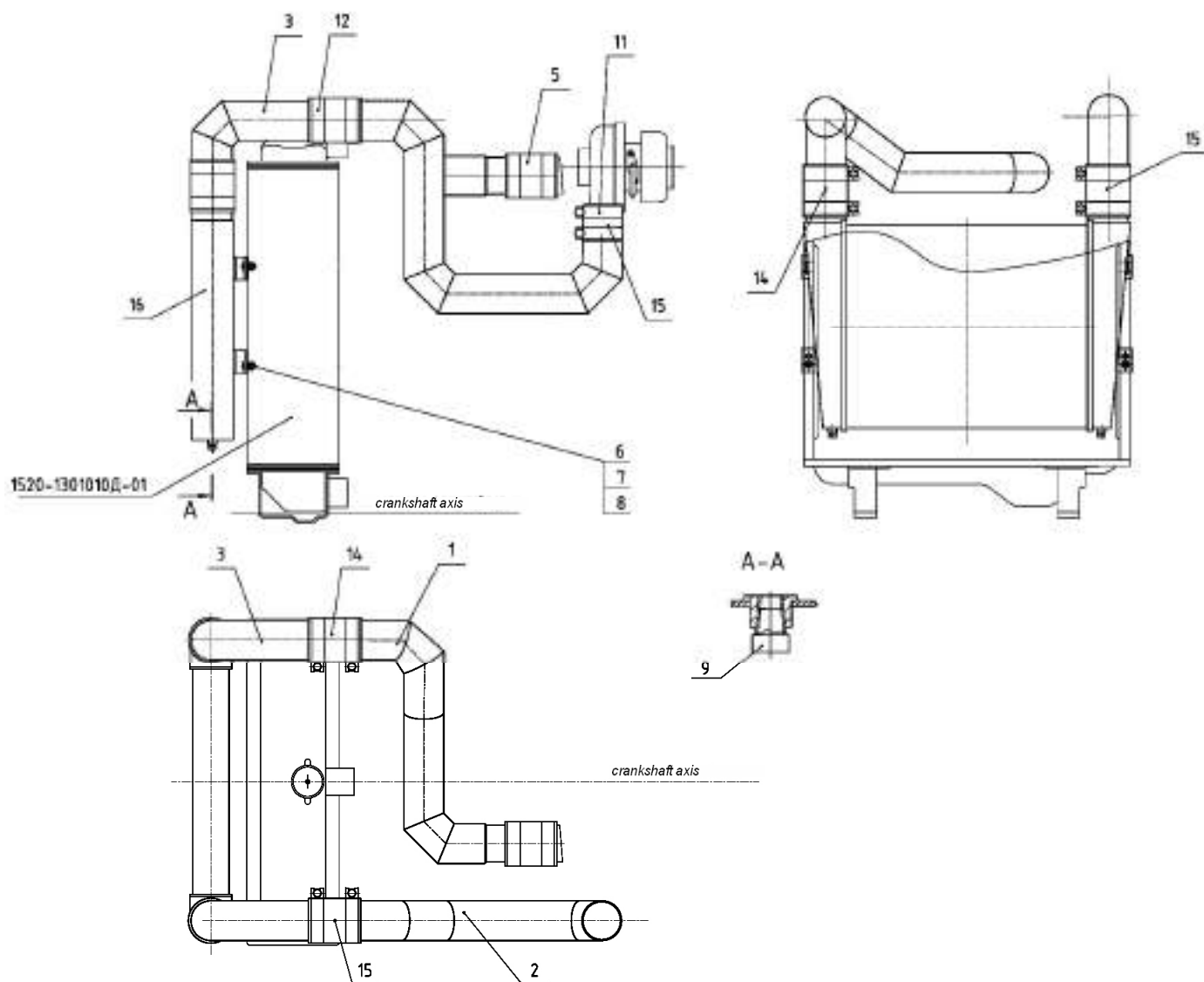


Fig. 13.2 Cooler installation 1523Д-1317010

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

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

* Interchangeable components

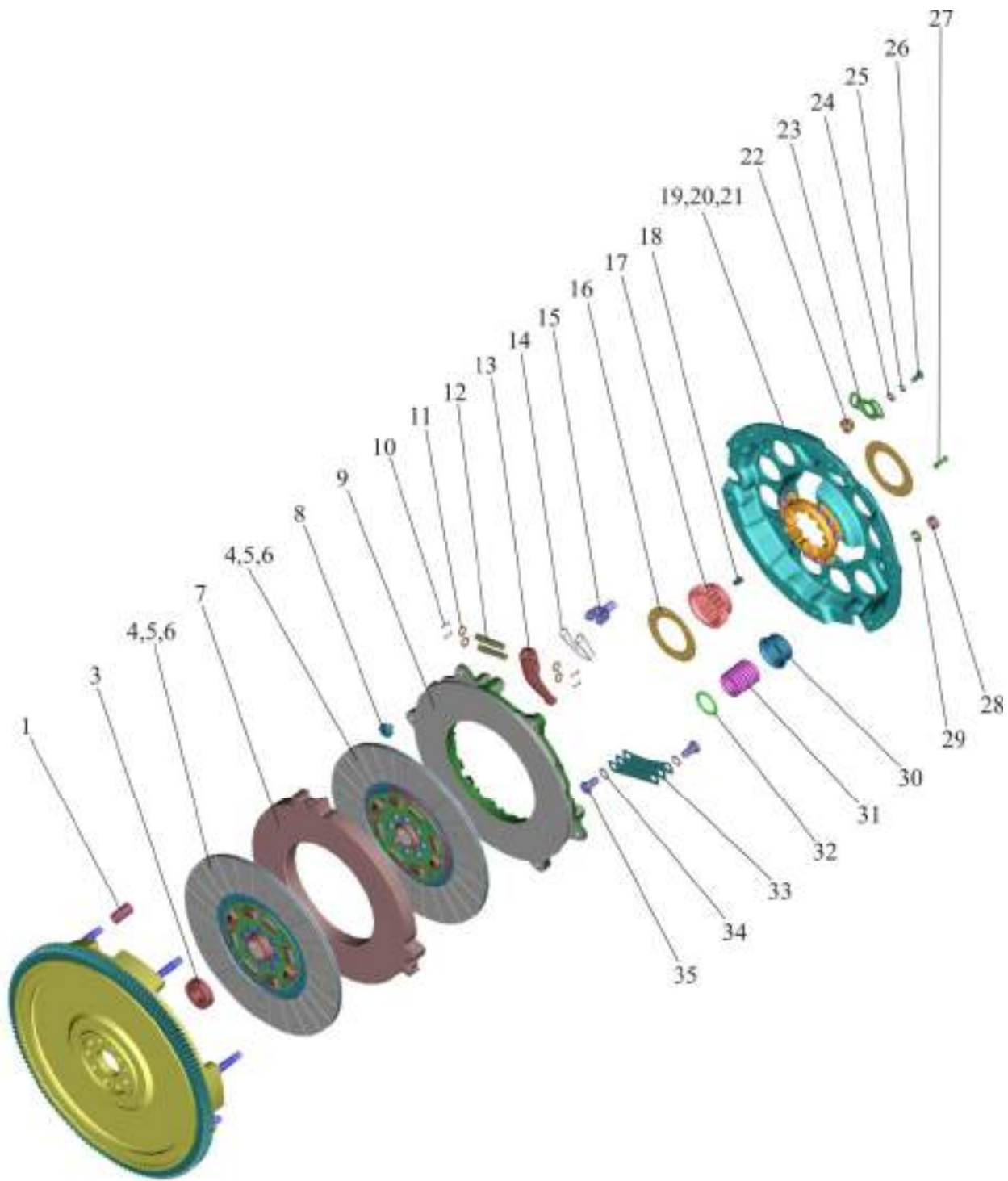


Fig. 16.1 Clutch installation 1523Д-1005009

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

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

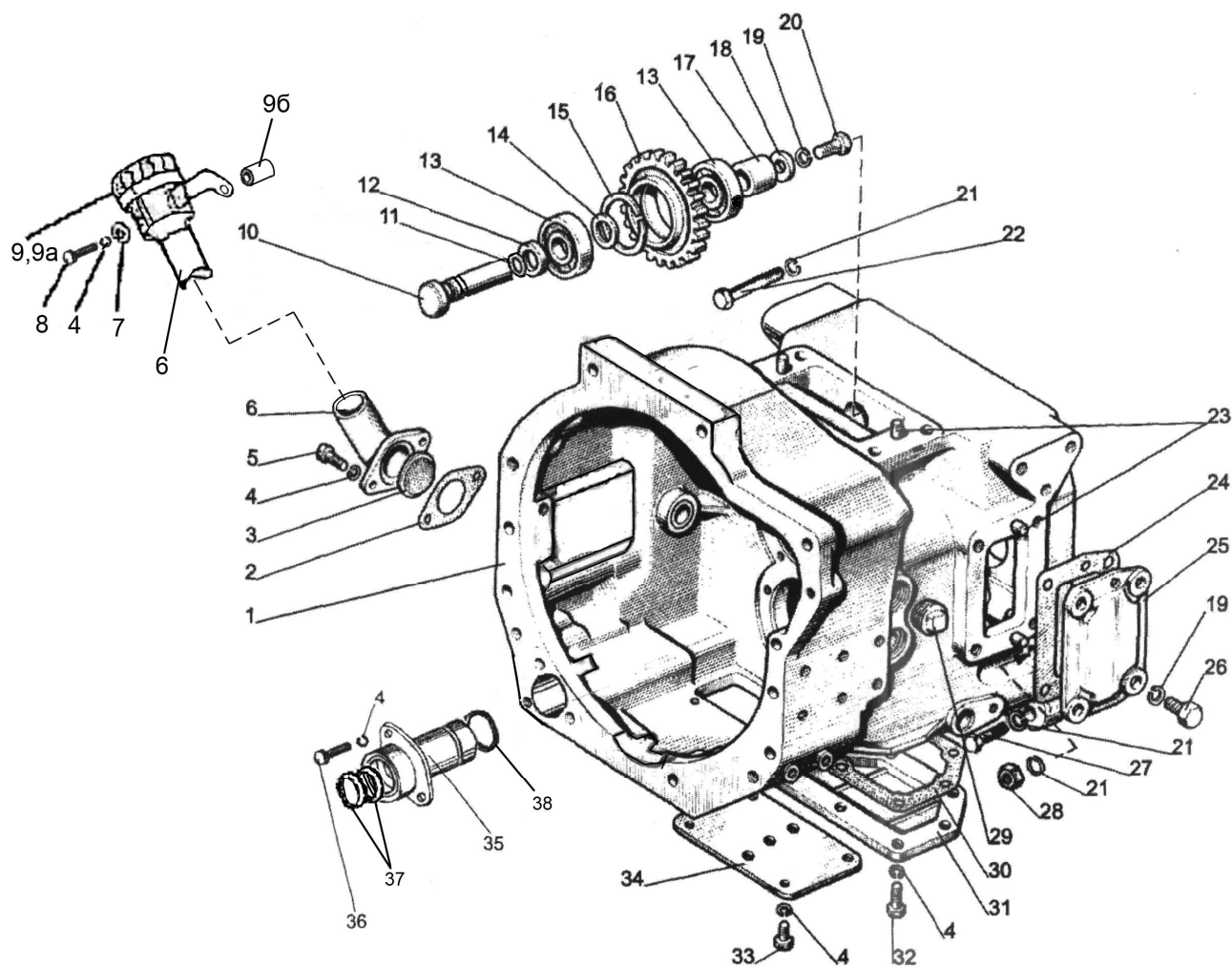


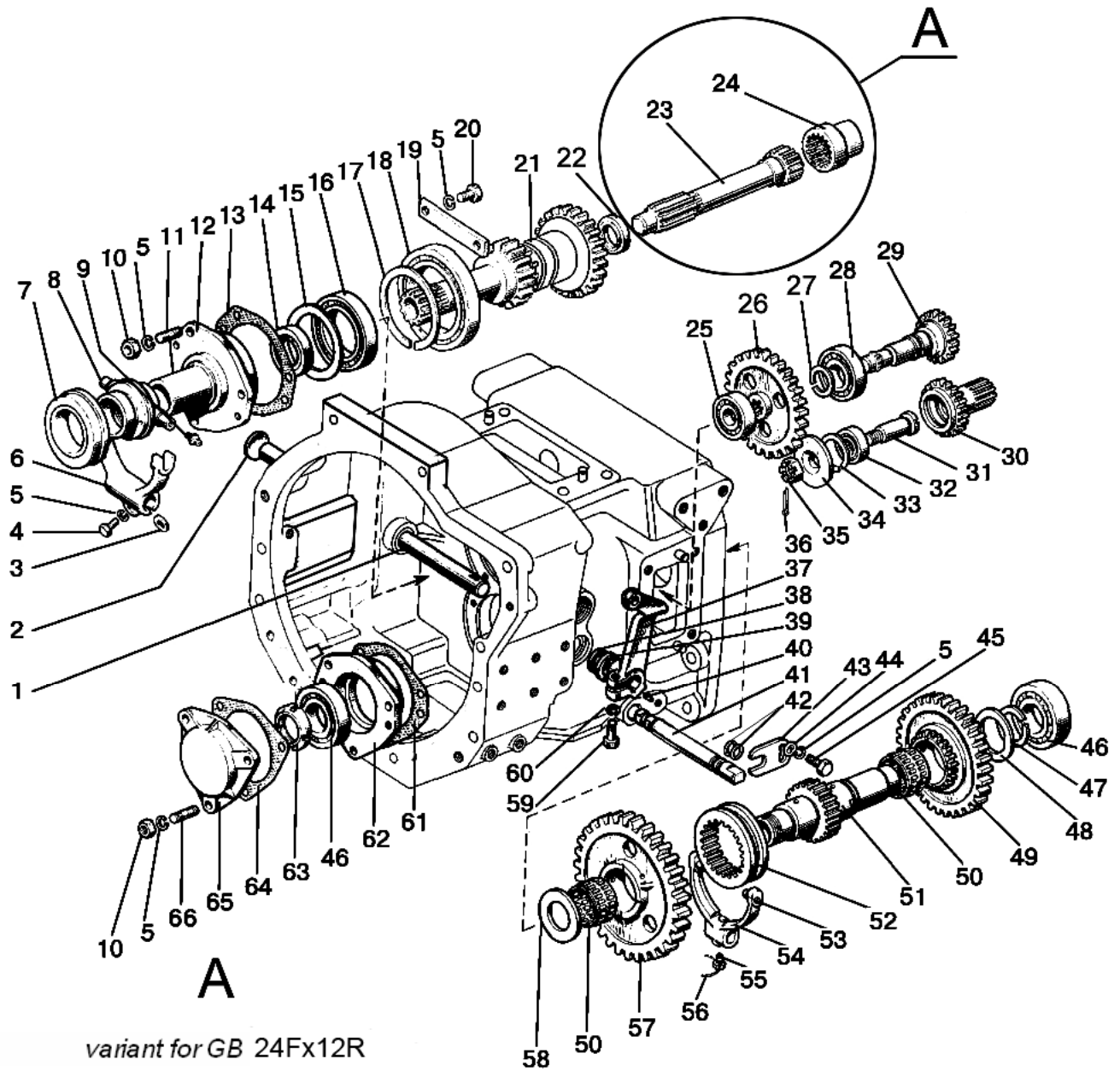
Fig. 16.2. Clutch housing

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

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

* For tractors with GB 16Fx8R

** For tractors with GB 24Fx12R



variant for GB 24Fx12R

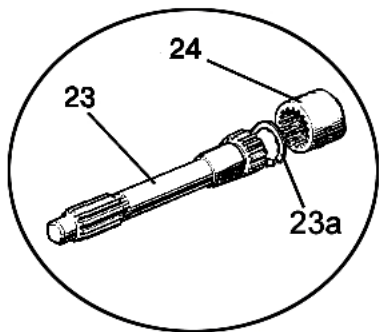
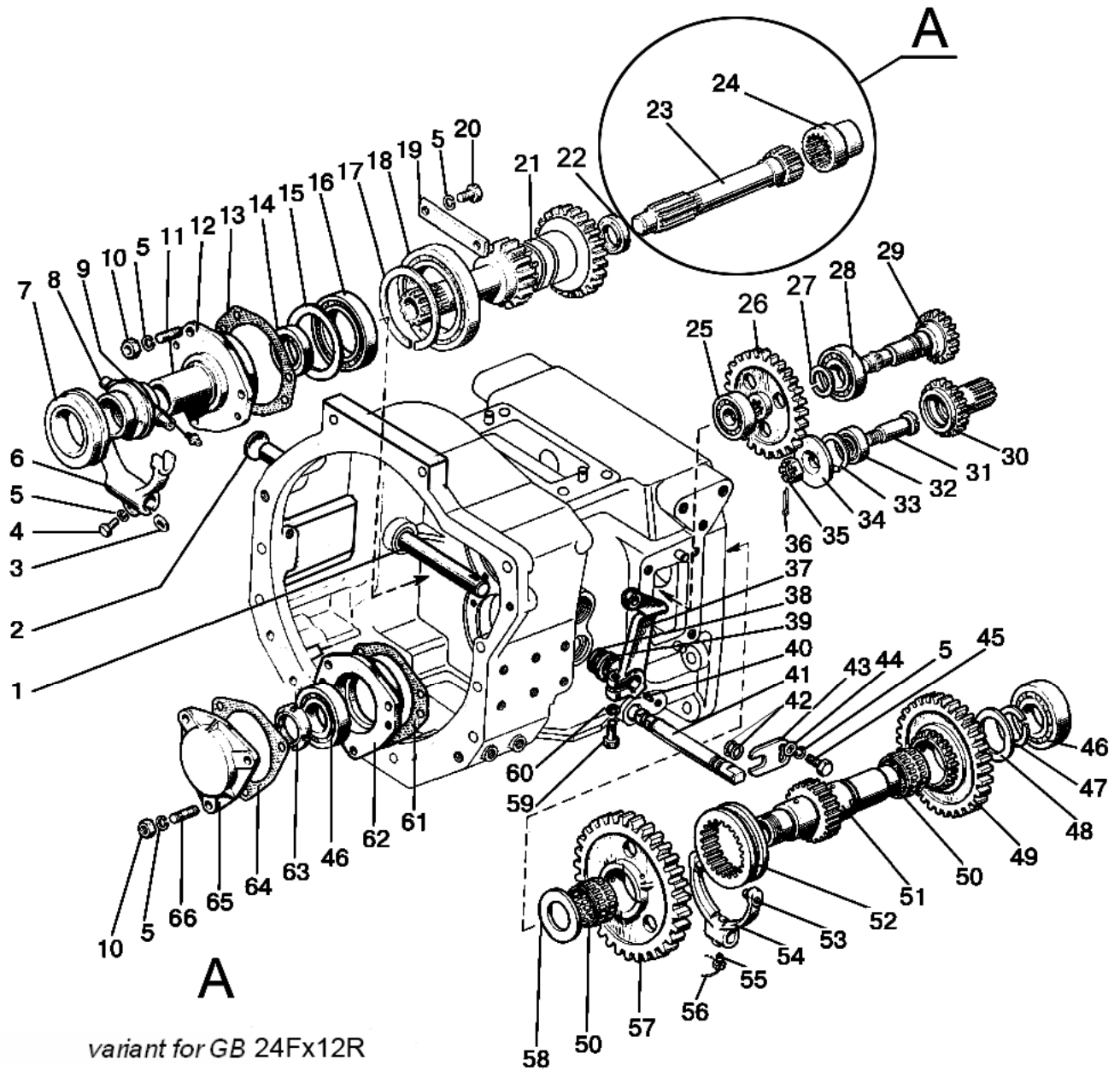


Fig. 16.3 Clutch housing

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

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

* Variant for GB 24Fx12R



variant for GB 24Fx12R

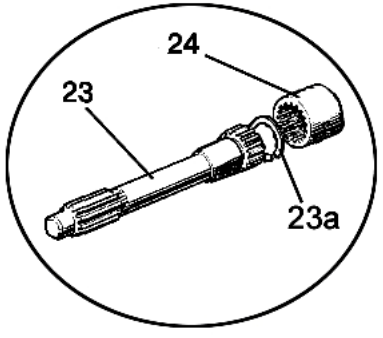


Fig. 16.3 Clutch housing

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

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

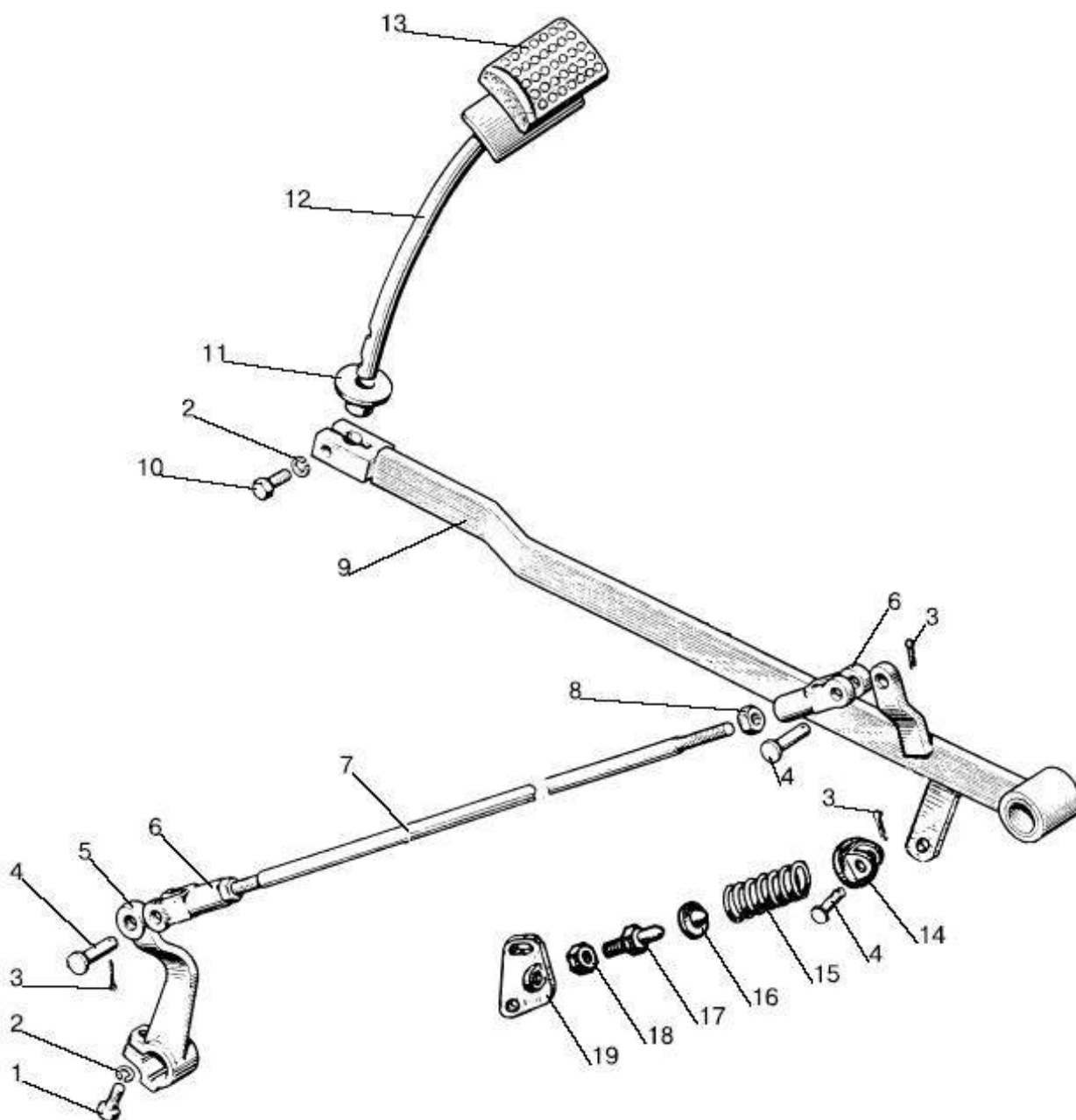


Fig. 16.4. Clutch control

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

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

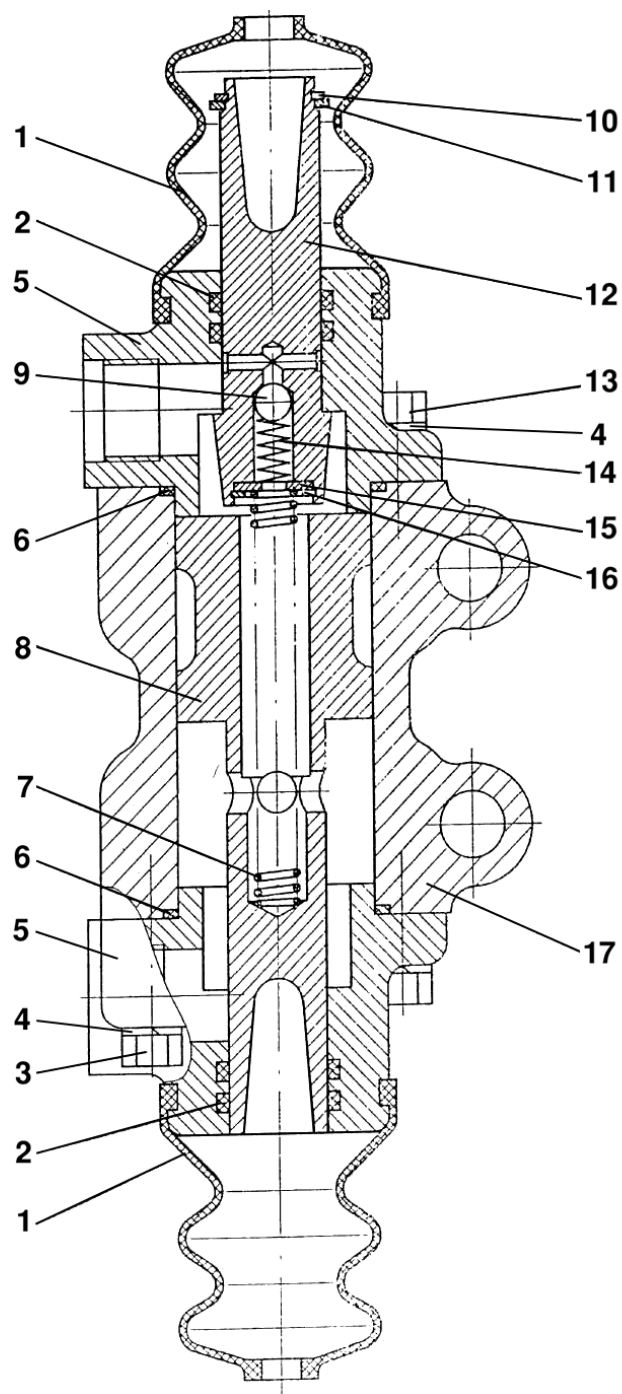


Fig. 16.5. Hydraulic booster

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

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

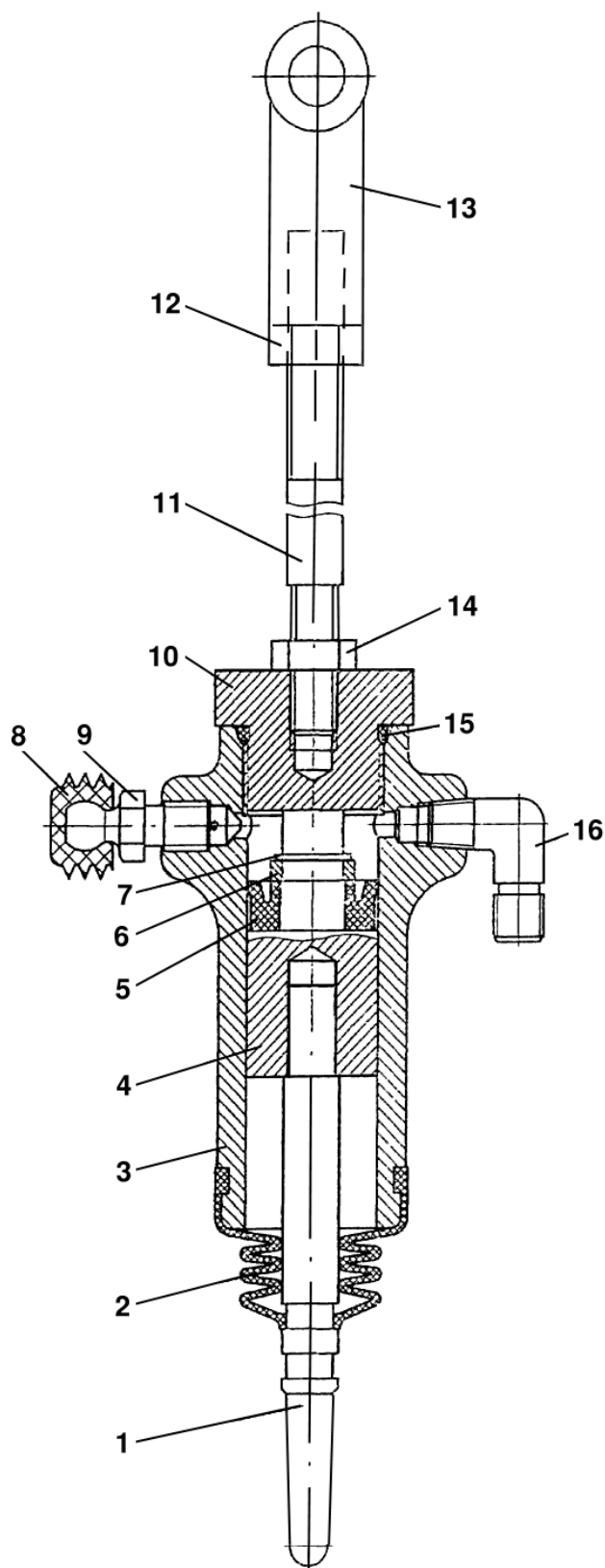


Fig. 16.6. Working cylinder

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

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

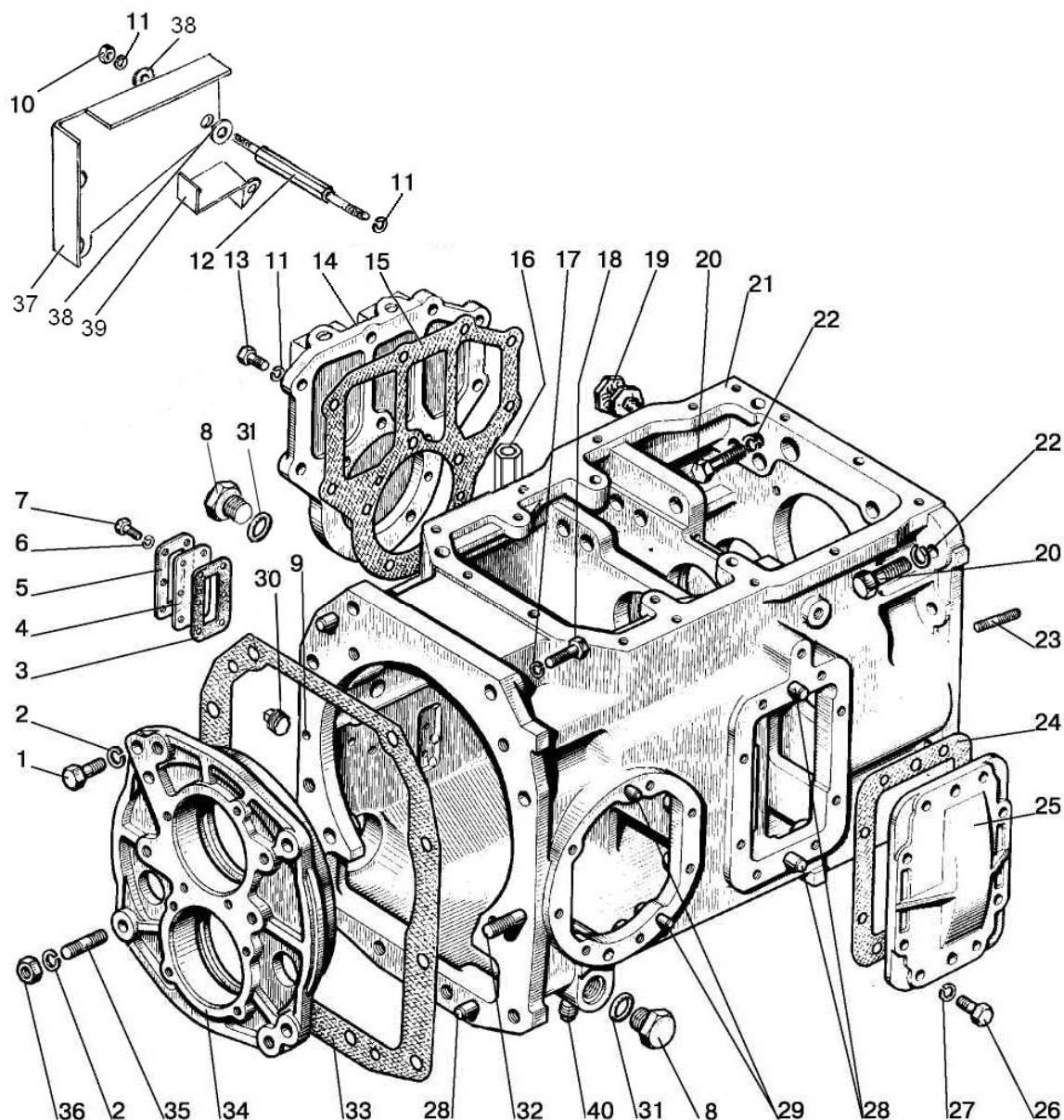


Fig. 17.1. Gear box (GB)

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

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

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

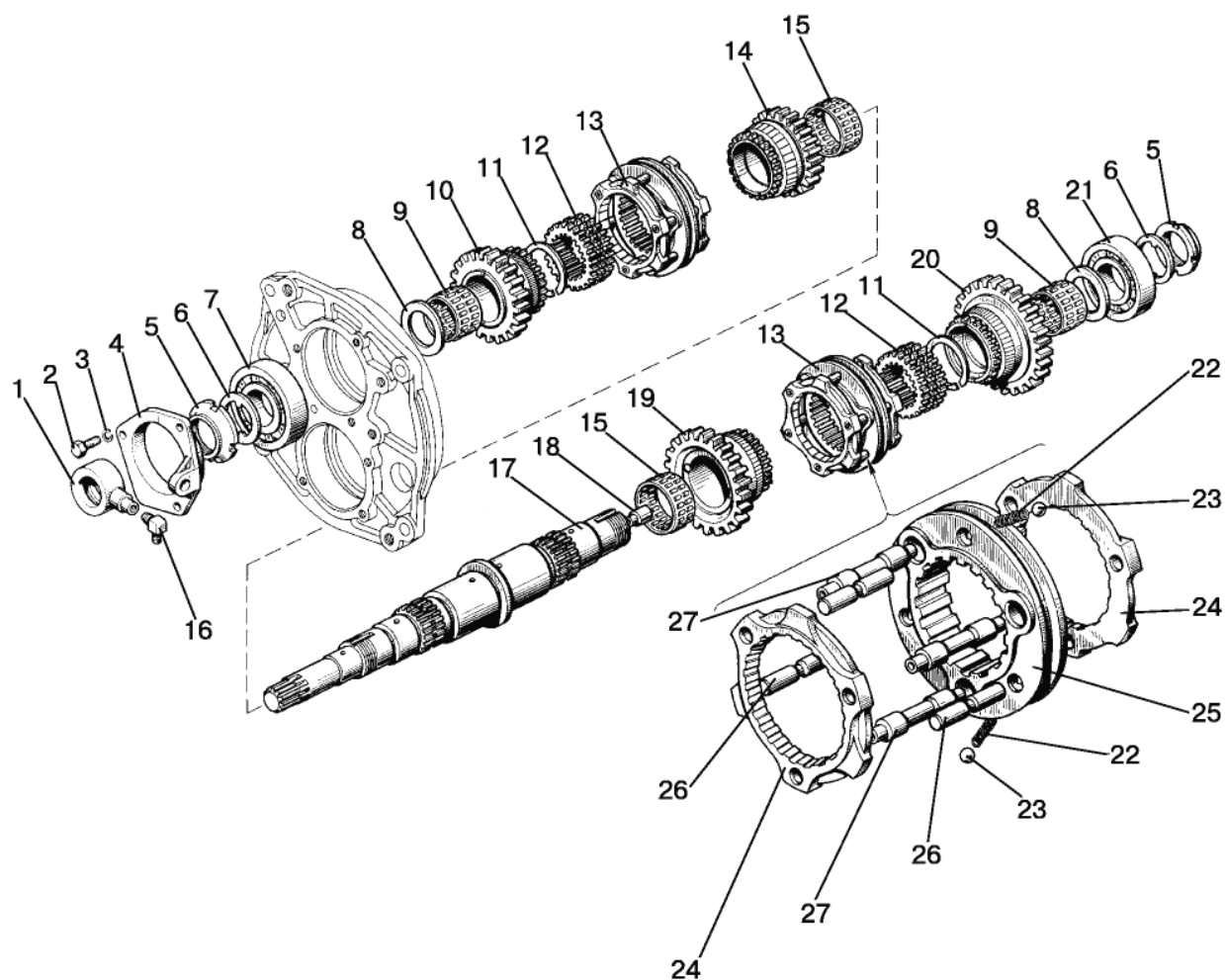


Fig. 17.2. Gear box (GB). Primary shaft

Group 17. Gear box (GB)

Subgroup 1701. Gear box (GB). Primary shaft

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

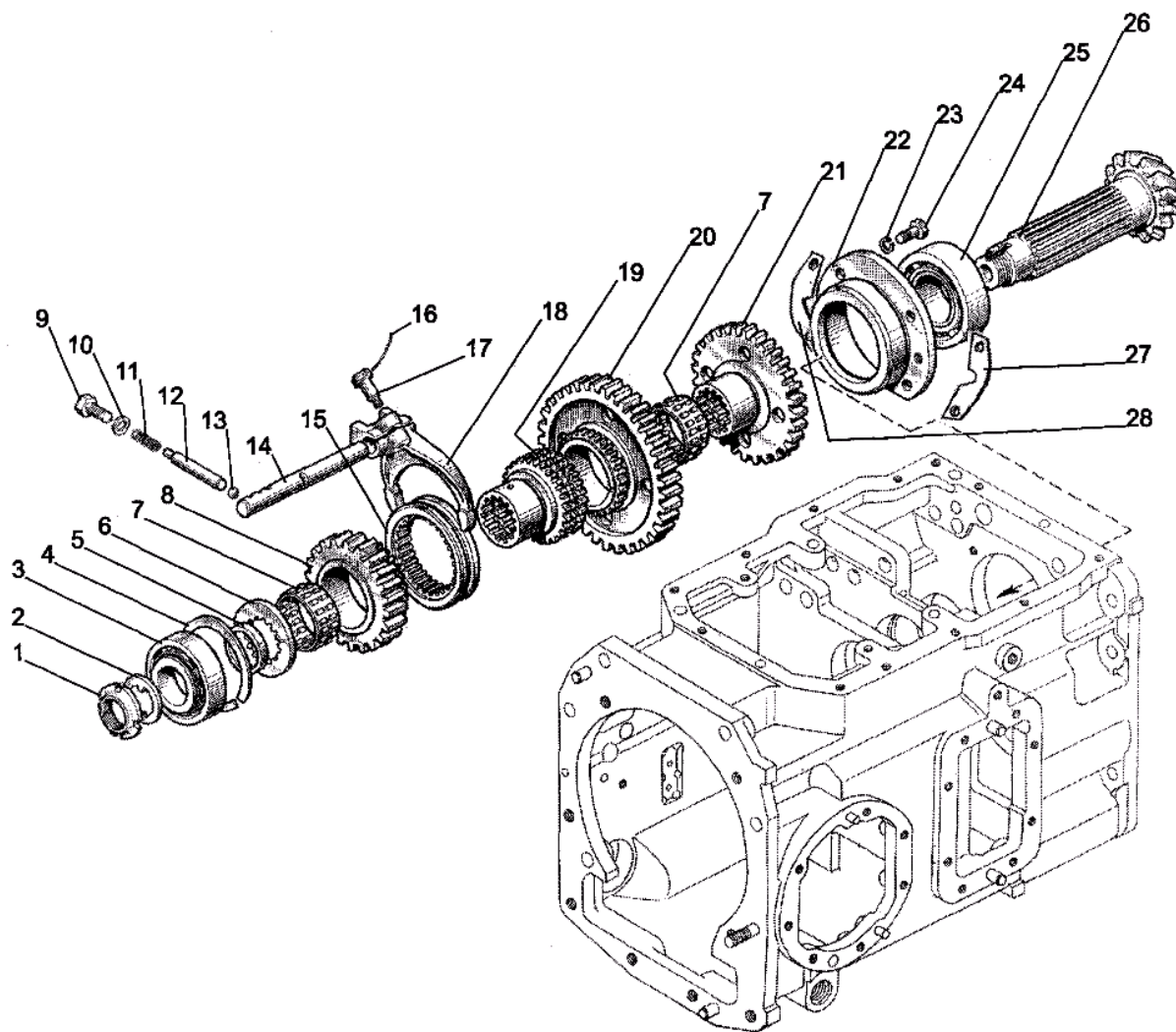


Fig. 17.3. Gear box (GB). Secondary shaft

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

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

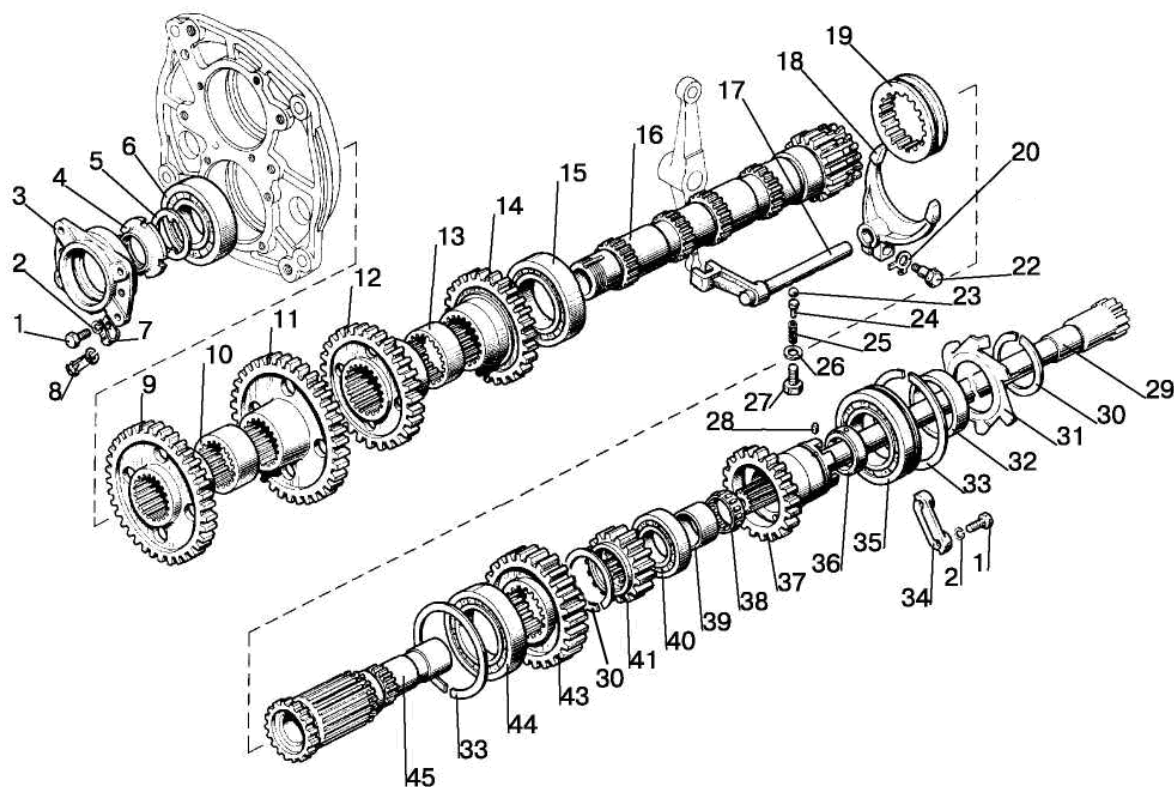


Fig. 17.4. Gear box (GB). Intermediate shaft

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

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

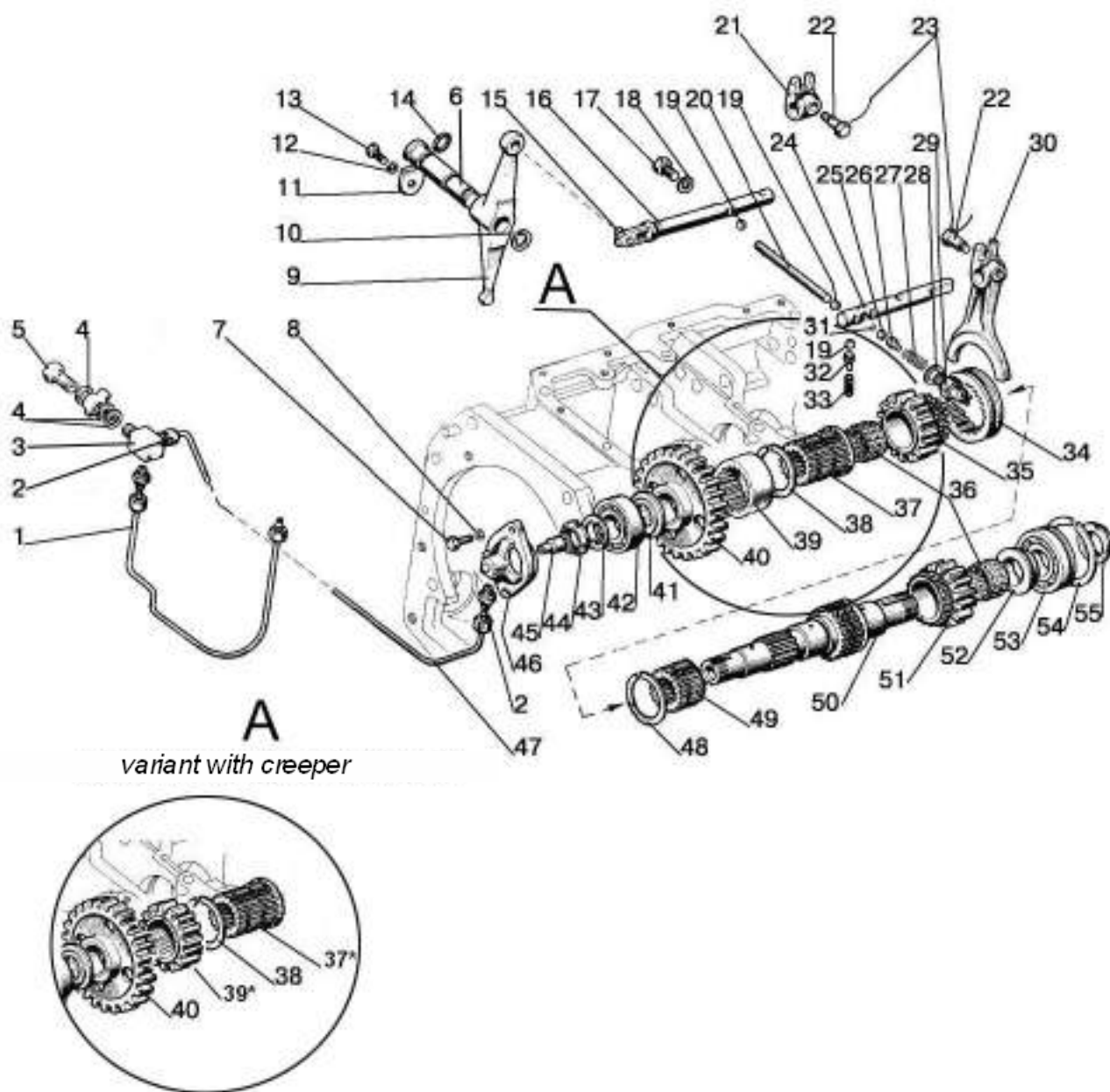
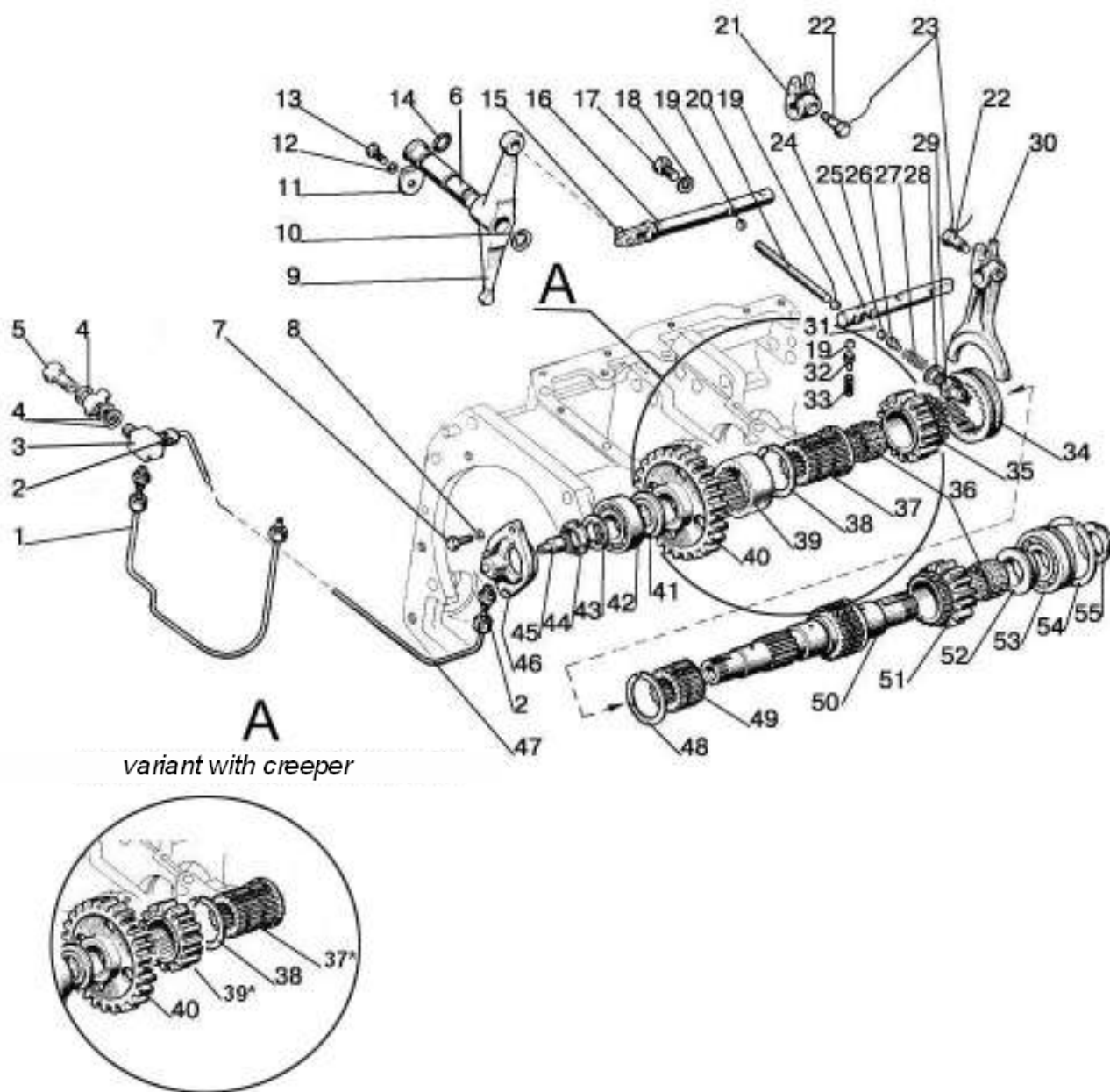


Fig. 17.5. Low gear shaft

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

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

* For tractors with an optional creeper mounting.



variant with creeper

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	49	75-1701352	1	Bushing
	50	75-1701335	1	Shaft
	51	112-1701361	1	Gear
	52	80-1701339	1	Bushing
	53		1	Bearing 692309KM GOST 8328-75
	54	80-1701396	1	Ring
	55	80-1701045	1	Nut

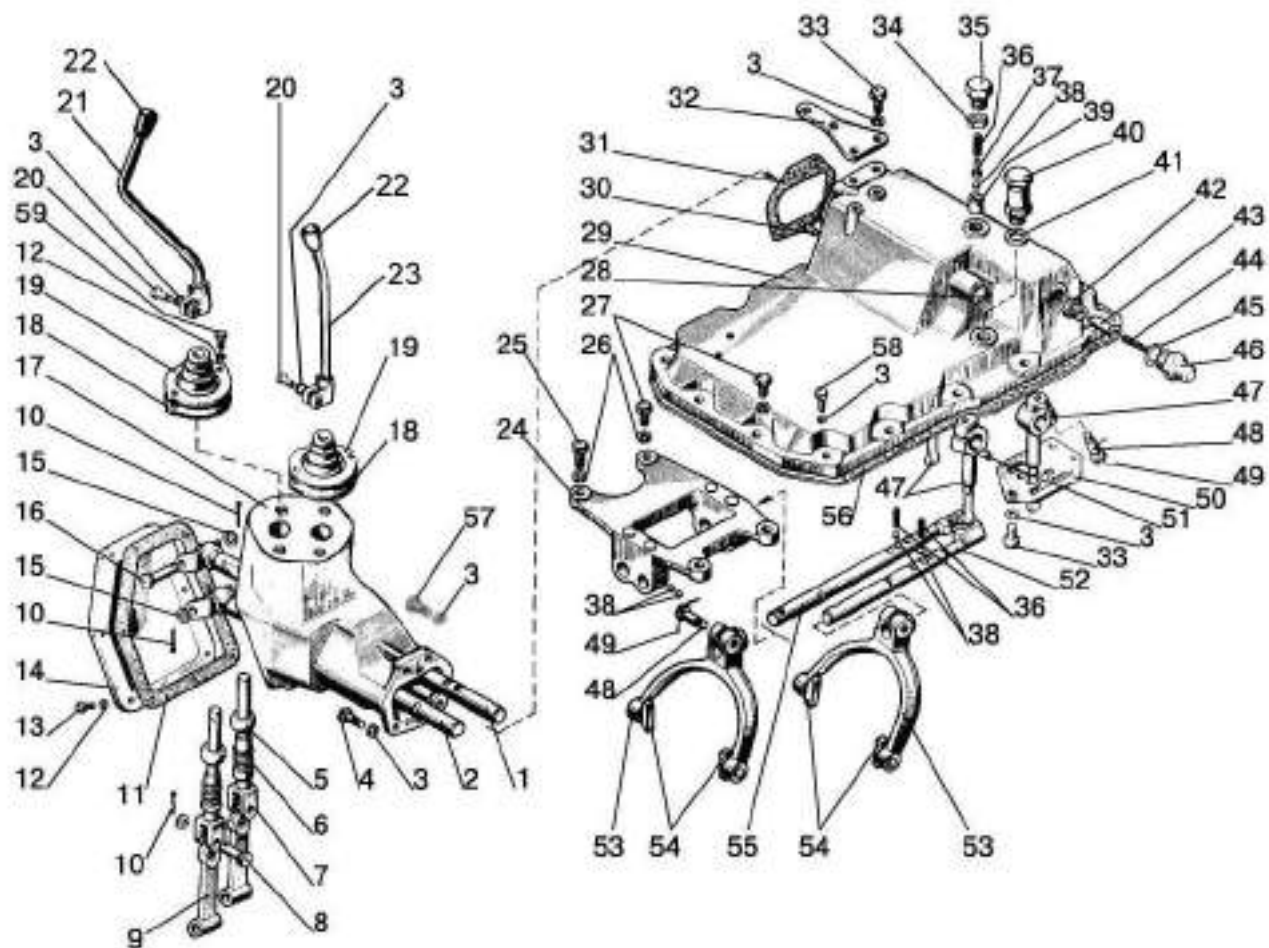


Fig. 17.6. GB control mechanism

Subgroup 1702. GB control mechanism

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.6		80-1702010	1	Control mechanism (1-20, 27, 28, 29-50)
		80C-1702080	1	Housing (80C-1702090-Б, 24, 38, 48, 49, 52, 55, 56)
		80C-1702090-Б	2	Yoke (53, 54)
		80C-1702300	1	Retainer (42-46)
	1	80C-1702060	1	Shaft
	2	80C-1702070	1	Shaft
	3		18	Washer 10 OT OST 37.001.115-75
	4		2	Bolt M10-6gx35.88.35.019 GOST 7796-70
	5	142-1702032	2	Ball
	6	77.37.117	2	Spring
	7	80C-1702074	2	Yoke
	8		2	Pin 12x32 OST 37.001.163-75
	9	80C-1702073	2	Lever
	10		4	Forelock 3,2x18.019 GOST 397-79
	11	80-1702068	1	Gasket
	12		11	Washer 6T OST 37.001.115-75
	13		7	Bolt M6-6gx16.88.35.019 GOST 7798-70
	14	80-1702067	1	Cover
	15	85-4619014	2	Washer
	16		2	Pin 12x55 OST 37.001.163-75
	17	80-1702078-A	1	Housing
	18	55-47-569-A	2	Case
	19	80C-1702075	2	Washer
	20		2	Bolt M10-6gx30.88.35.019 GOST 7796-70
	21	75-1702600	1	Lever
	22	70-1702125	2	Handle
	23	75-1702500	1	Lever
	24	80C-1702081	1	Housing
	25		2	Bolt M12-6gx35.88.35.019 GOST 7796-70
	26		6	Washer 12 OT OST 37.001.115-75
	27	50-1702092	4	Bolt
	28		1	Blind plug 28-10кн.Ц9.xp GOST 3111-81
	29	1221-1702025	1	Cover
	30		2	Pin 8x16 GOST 3128-70
	31	80C-1702066	1	Gasket
	32	85-3503046	1	Bracket
	33		5	Bolt M10-6gx25.88.35.019 GOST 7796-70
	34		1	Nut M16-6H.04.019 GOST 5916-70
	35	70-1703204	1	Bolt
	36	50-1702148-A	3	Spring
	37	80-1704039	1	Guide
	38		5	Ball 10,0-60 GOST 3722-81
	39	70-1703013	1	Bushing
	40	85-1702270	1	Breather
	41	B50-3522023	1	Gasket
	42	80C-1702301	1	Bushing
	43	80C-1702303	1	Detent
	44	80-1737113	1	Spring
	45	80-1702098	1	Washer
46	80C-1702302	1	Housing	
47	85-1702055	3	Lever	
48	80-1702108	5	Bolt	
49		5	Wire 1,6-O-C GOST 3282-74	

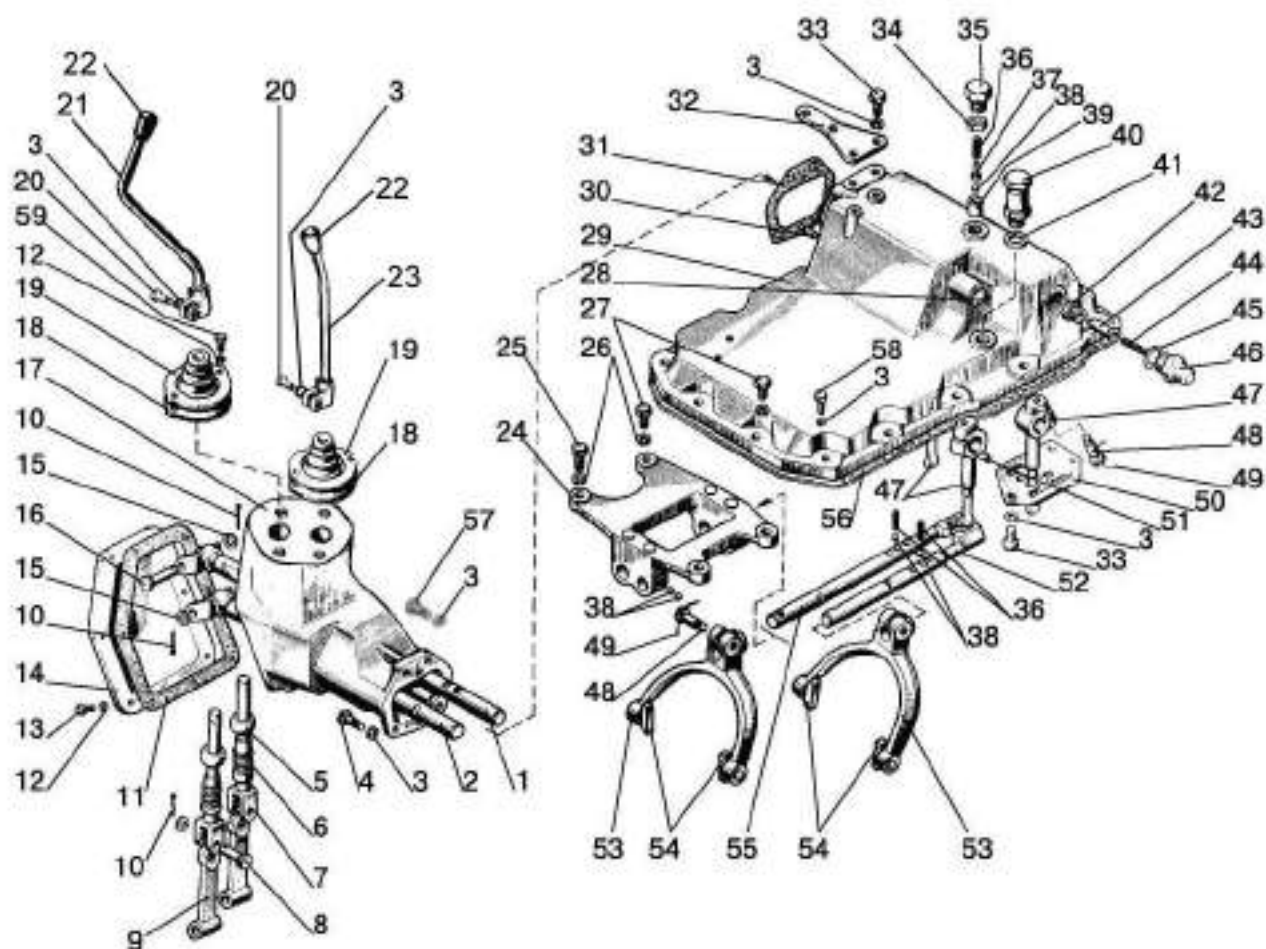


Fig. 17.6. GB control mechanism

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

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

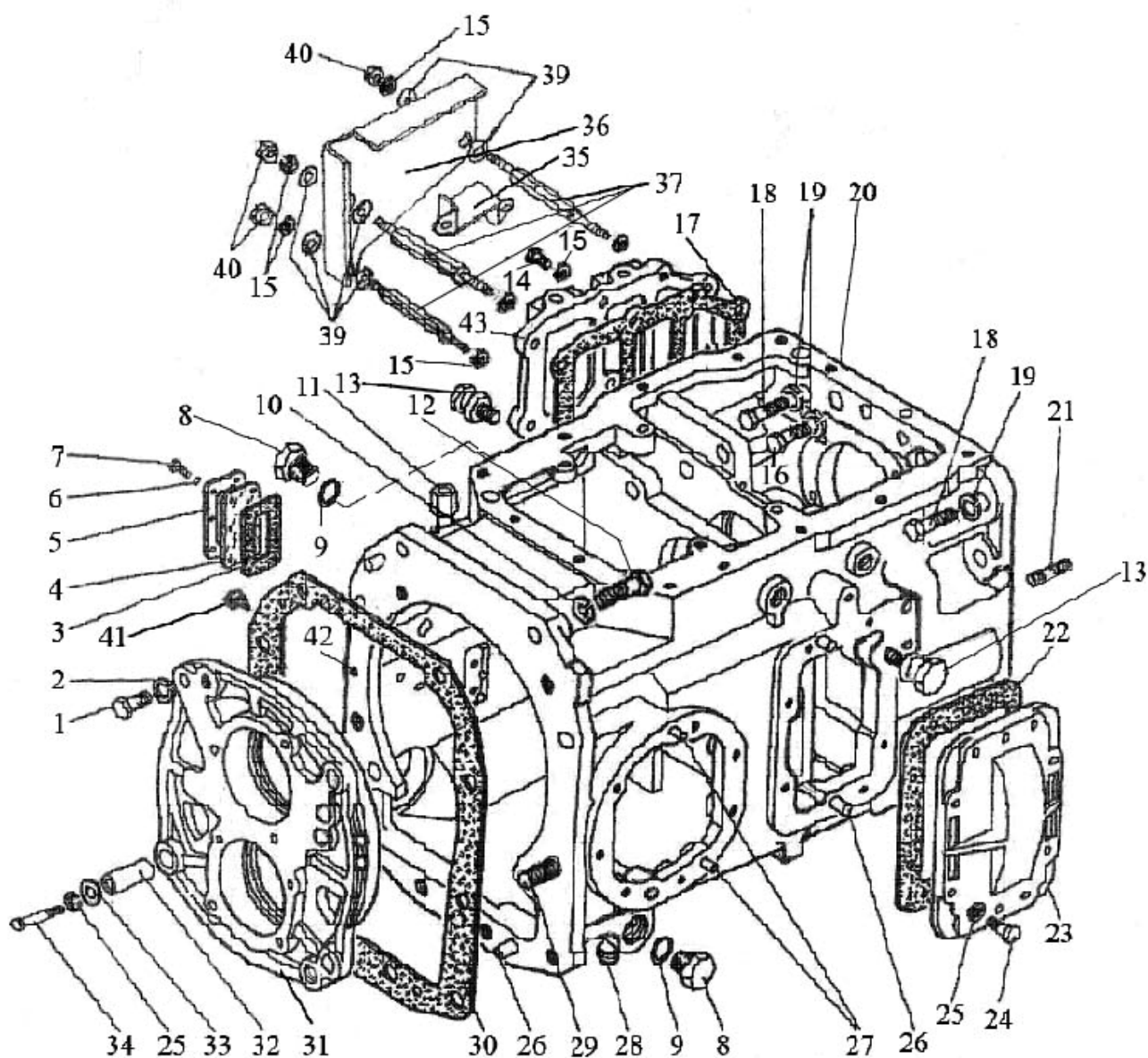


Fig. 17.7 Gear box (GB) 1222-1700010-02/-05 (24F+12R)

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

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

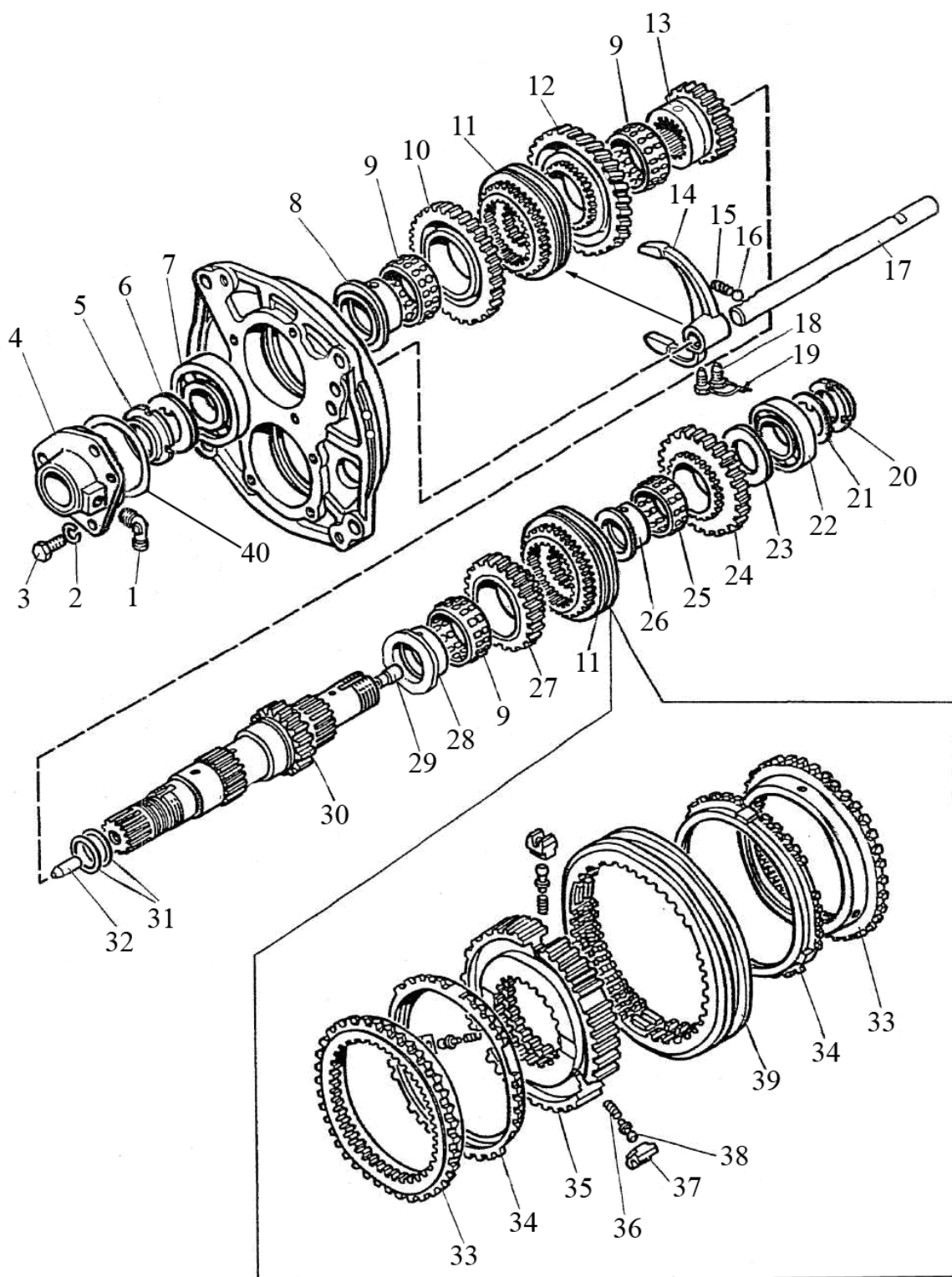


Fig. 17.8 Primary shaft

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

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

* For synchro unit 1222-1701400

** Selection

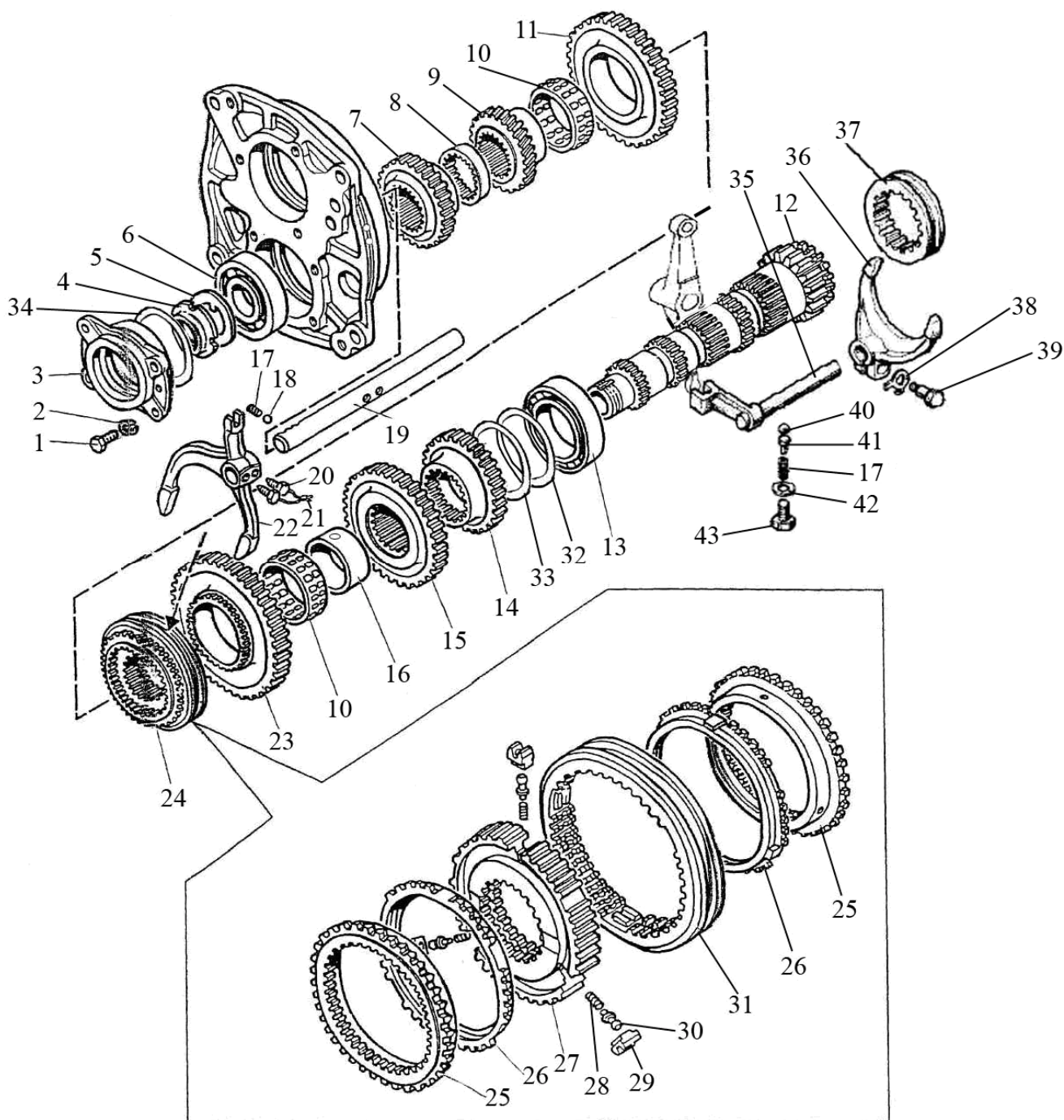


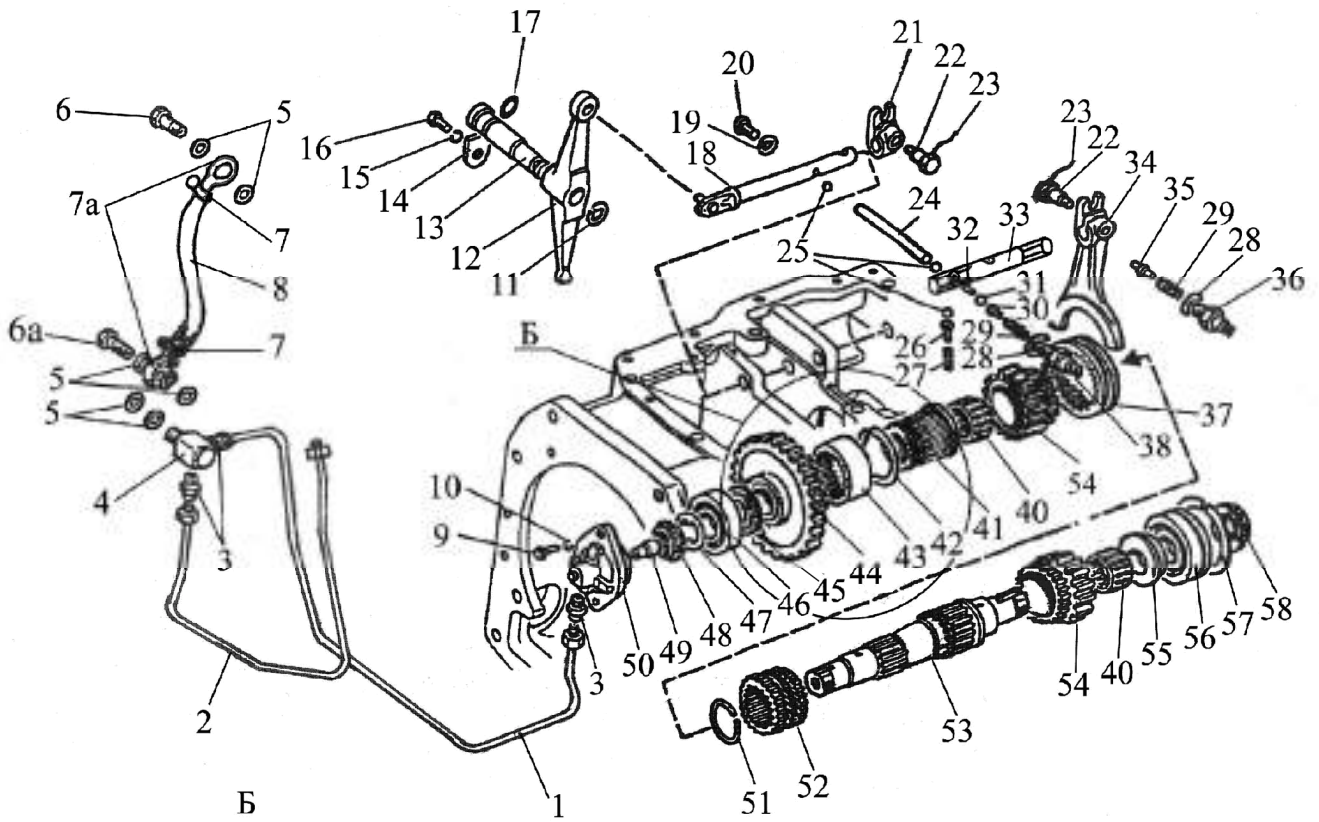
Fig. 17.9 Intermediate shaft

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

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

* For synchro unit 1222-1701400

** Selection



variant with creeper

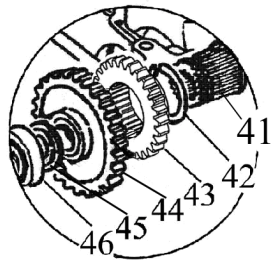
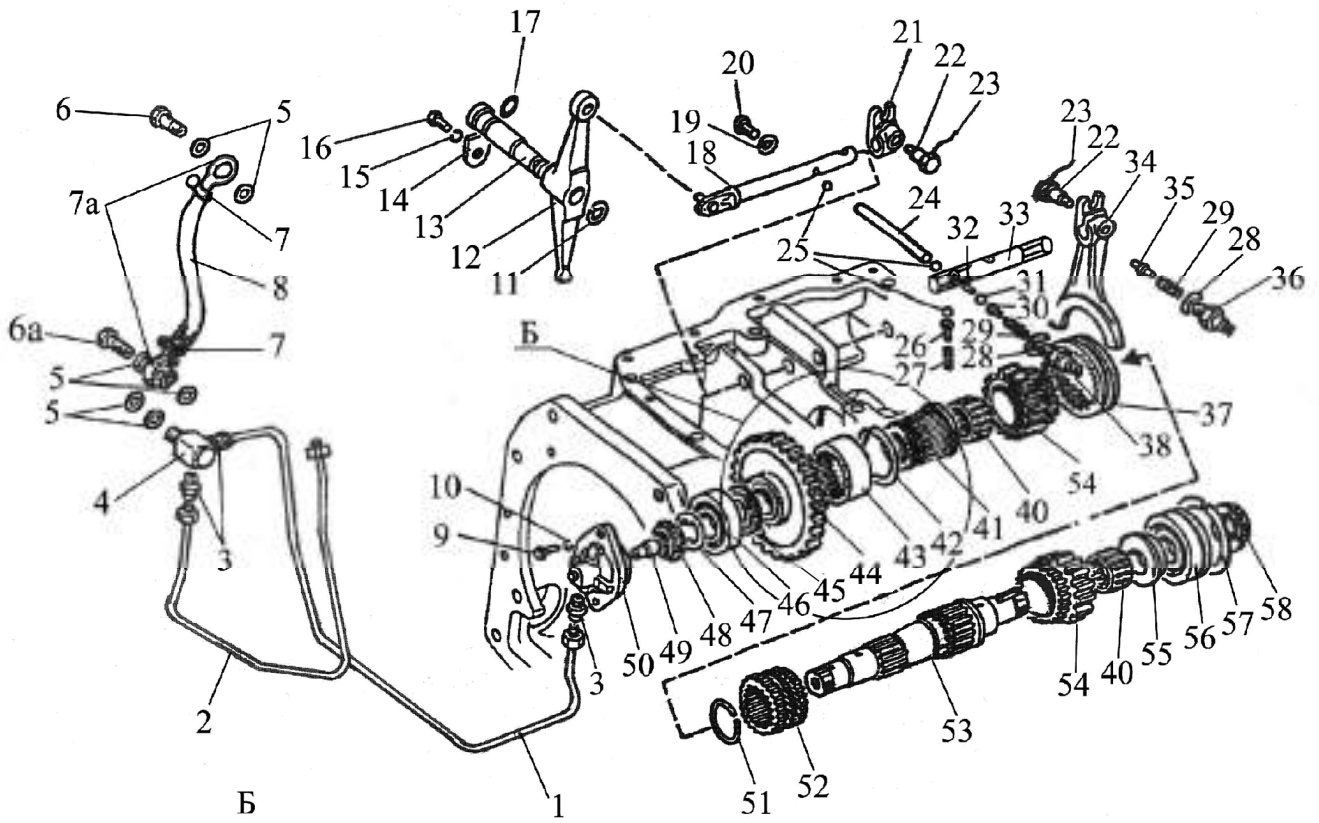


Fig. 17.10 Low gear and back draft shaft

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

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

** Selection



Б
variant with creeper

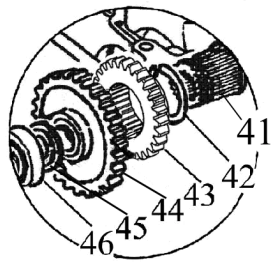


Fig. 17.10 Low gear and back draft shaft

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

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

* Variant with creeper

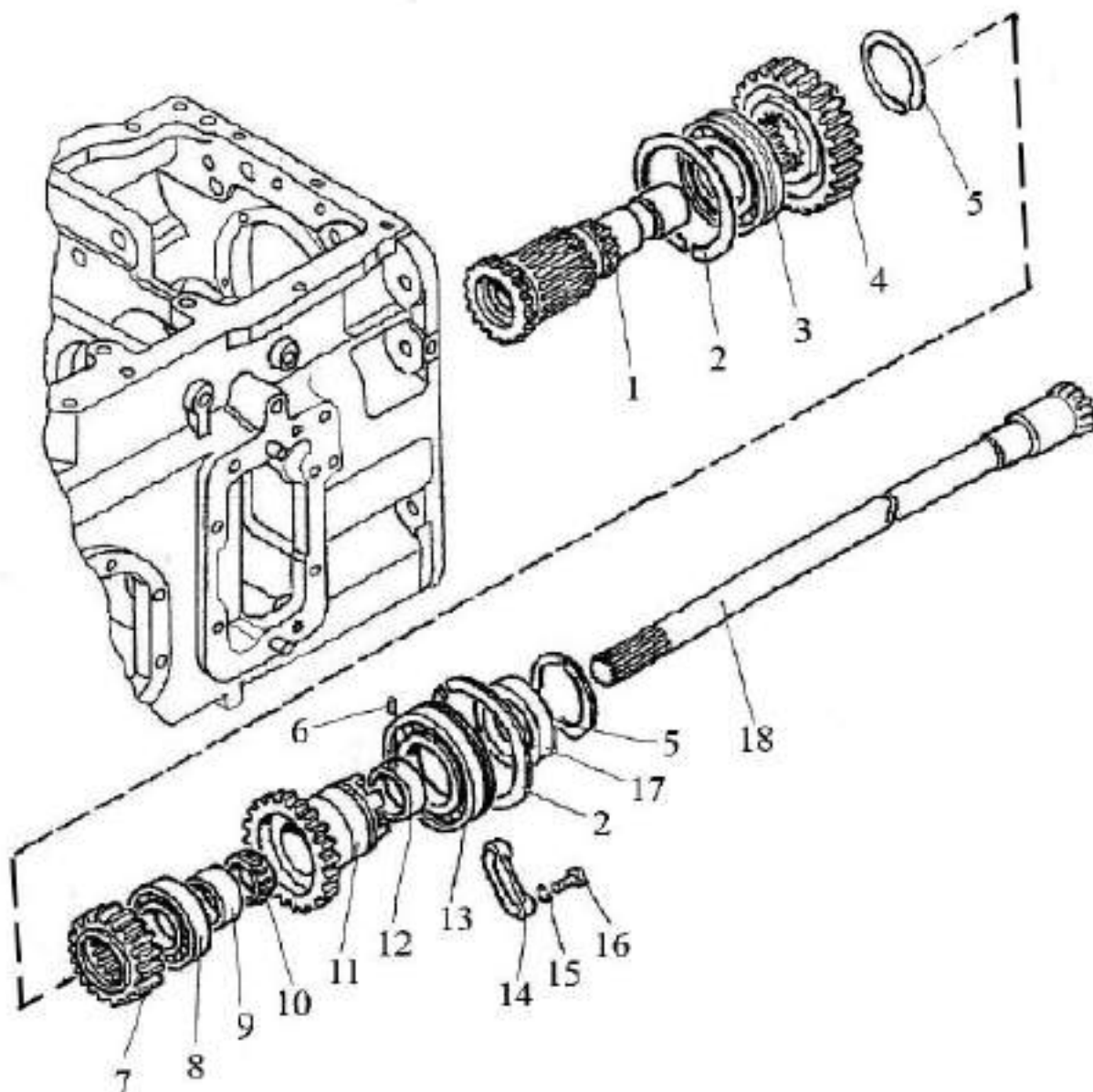


Fig. 17.11 Gear set shaft

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

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

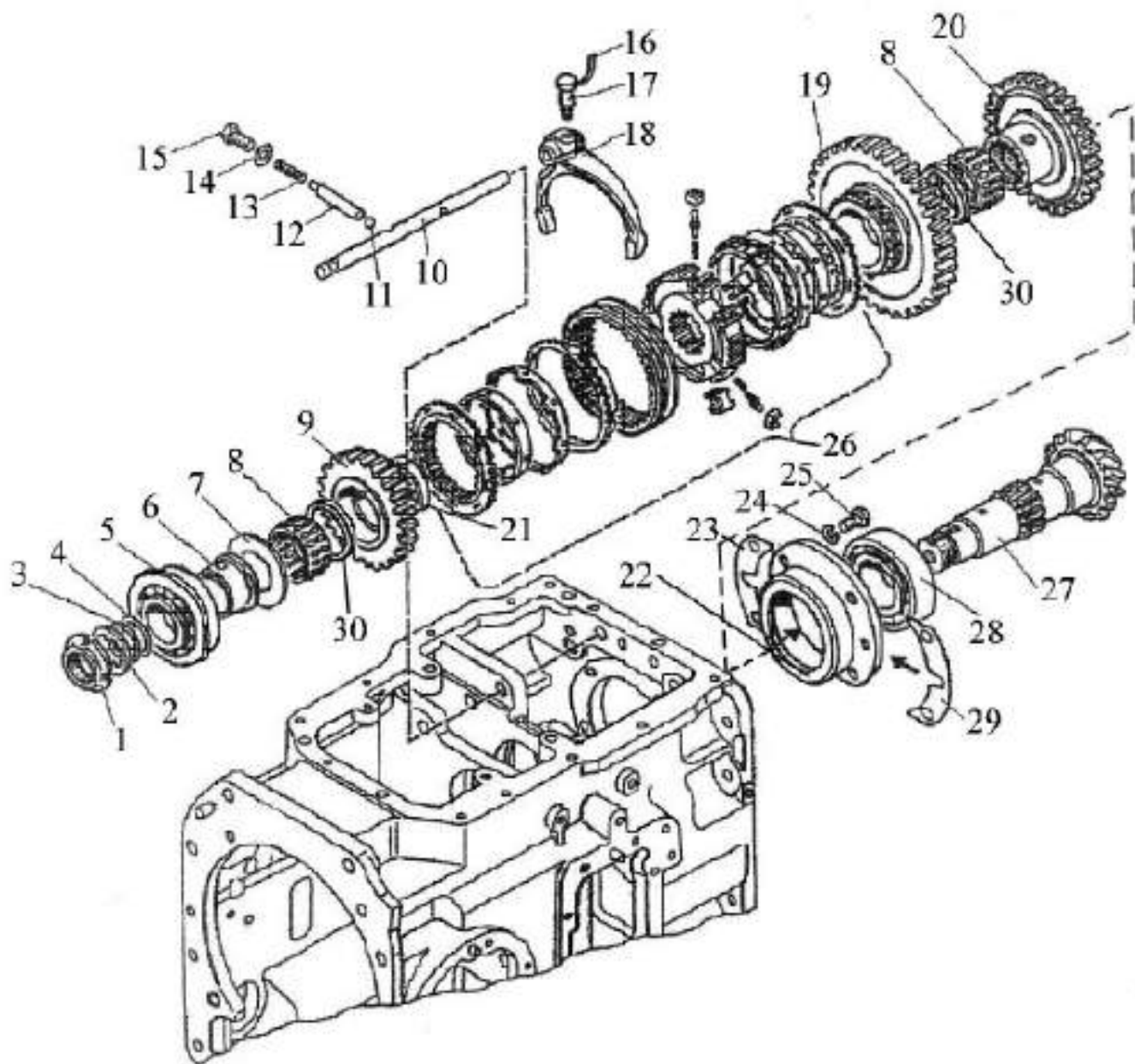


Fig. 17.12 Secondary shaft

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

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

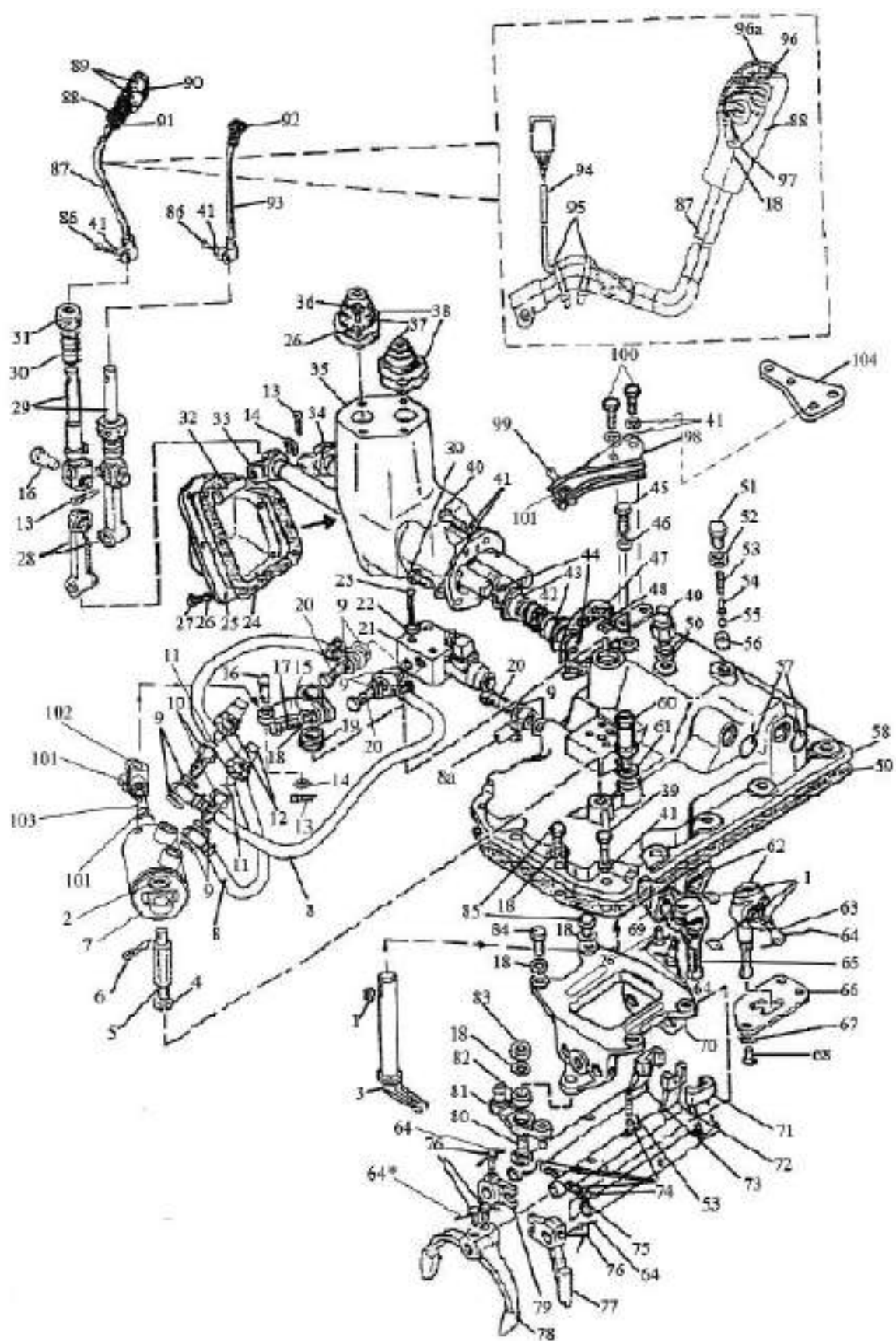


Fig. 17.13 GB control mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
17.13		1222-1702010	1	Control mechanism
		1222-1702080	1	Yoke housing (18-1 piece, 53-1 piece, 64 (2x200+200*=600 mm), 70-83)
	1	6x10	4	Key
	2	ШЧ16	1	Washer
	3	1222-1702093	1	Lever
	4	ШП16	1	Washer
	5	1222-1702096	1	Axis
	6	3,2x25	1	Forelock
	7	2102-4216110-Б	1	Cylinder
	8	1222-1702130	2	Oil pipeline
	8a	1222-1702130-01	1	Oil pipeline
	9	Д18-055-А	10	O-ring
	10	1222-1702114	2	Union body
	11	009-012-19-1-4	2	Ring
	12	ДСДМ-М	2	Air pressure emergency sensor
	13	3,2x18	5	Forelock
	14	85-4619014	3	Washer
	15	1222-1702092	1	Lever
	16	12x32	3	Pin
	17	M12x35	1	Bolt
	18	ШП12	8	Washer
	19	2.2-25x42-1	1	Collar
	20	Д18-051	3	Bolt
	21	RH 06101-012/00GA-AMP	1	Hydraulic distributor valve
	22	ШП5	4	Washer
	23	В.М5x50	4	Screw
	24	80-1702068	1	Gasket
	25	80-1702067	1	Cover
	26	ШП6	11	Washer
	27	M6x16	7	Bolt
	28	80С-1702073	2	Lever
	29	80С-1702074	2	Yoke
	30	77.37.117	2	Spring
	31	142-1702032	2	Ball
	32	12x55	2	Pin
	33	1222-1702070	1	Shaft
	34	80С-1702060	1	Shaft
	35	80-1702078-А	1	Housing
	36	M6x20	4	Bolt
	37	55-47-569-А	2	Case
	38	80С-1702075	2	Washer
	39	M10x35	14	Bolt
	40	M10x40	2	Bolt
	41	ШП10	20	Washer
	42	80-4608057	1	Spring
	43	1222-1702064	2	Bushing
	44	C25	2	Ring
	45	1222-1702048	1	Screw
	46	85-1702051	1	Washer
	47	80С-1702066	1	Gasket
48	8x16	2	Pin	
49	ВК 12-41	1	Switch	
50	50-1702048	10	Shim	

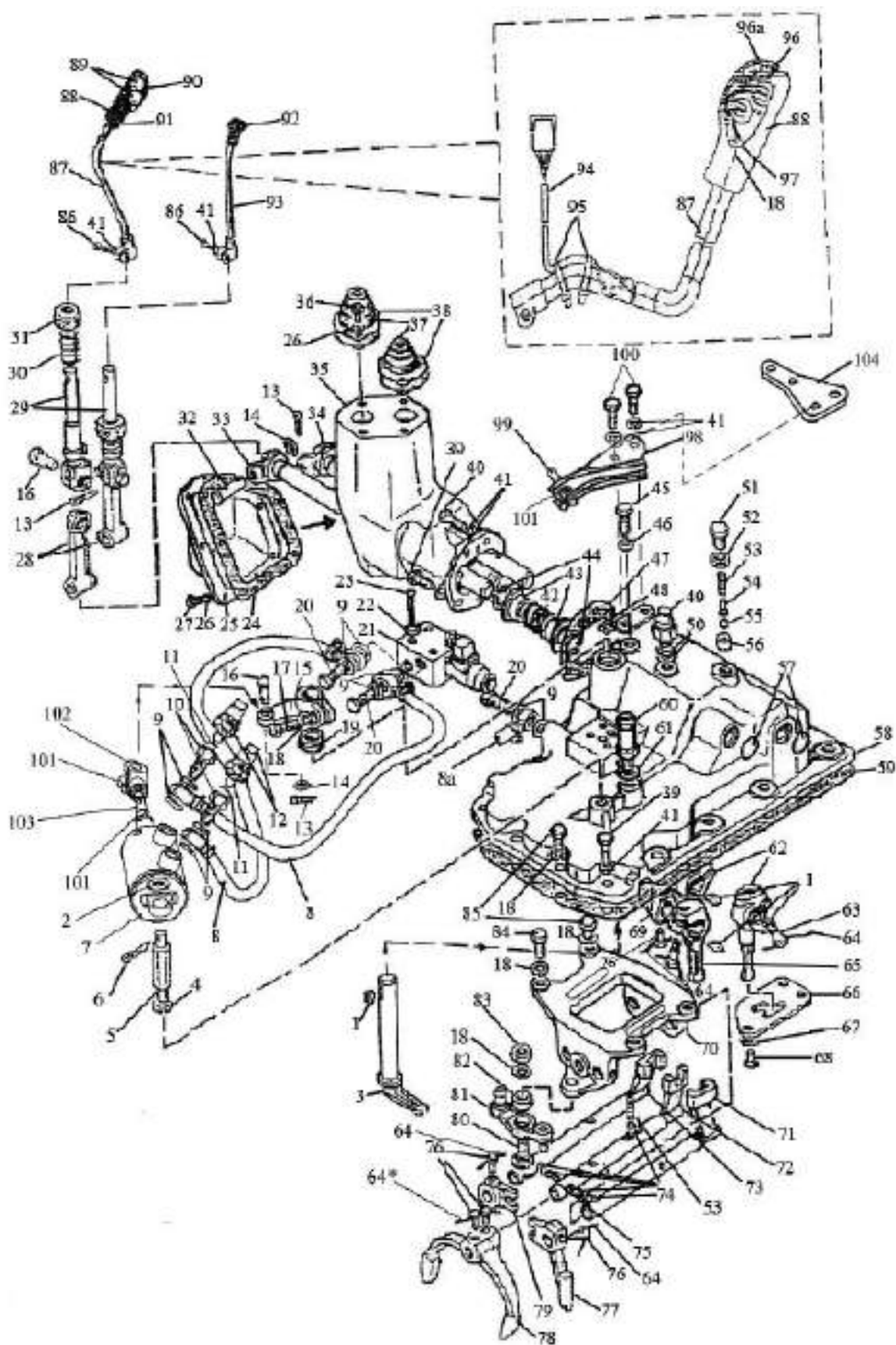


Fig. 17.13 GB control mechanism

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

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

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

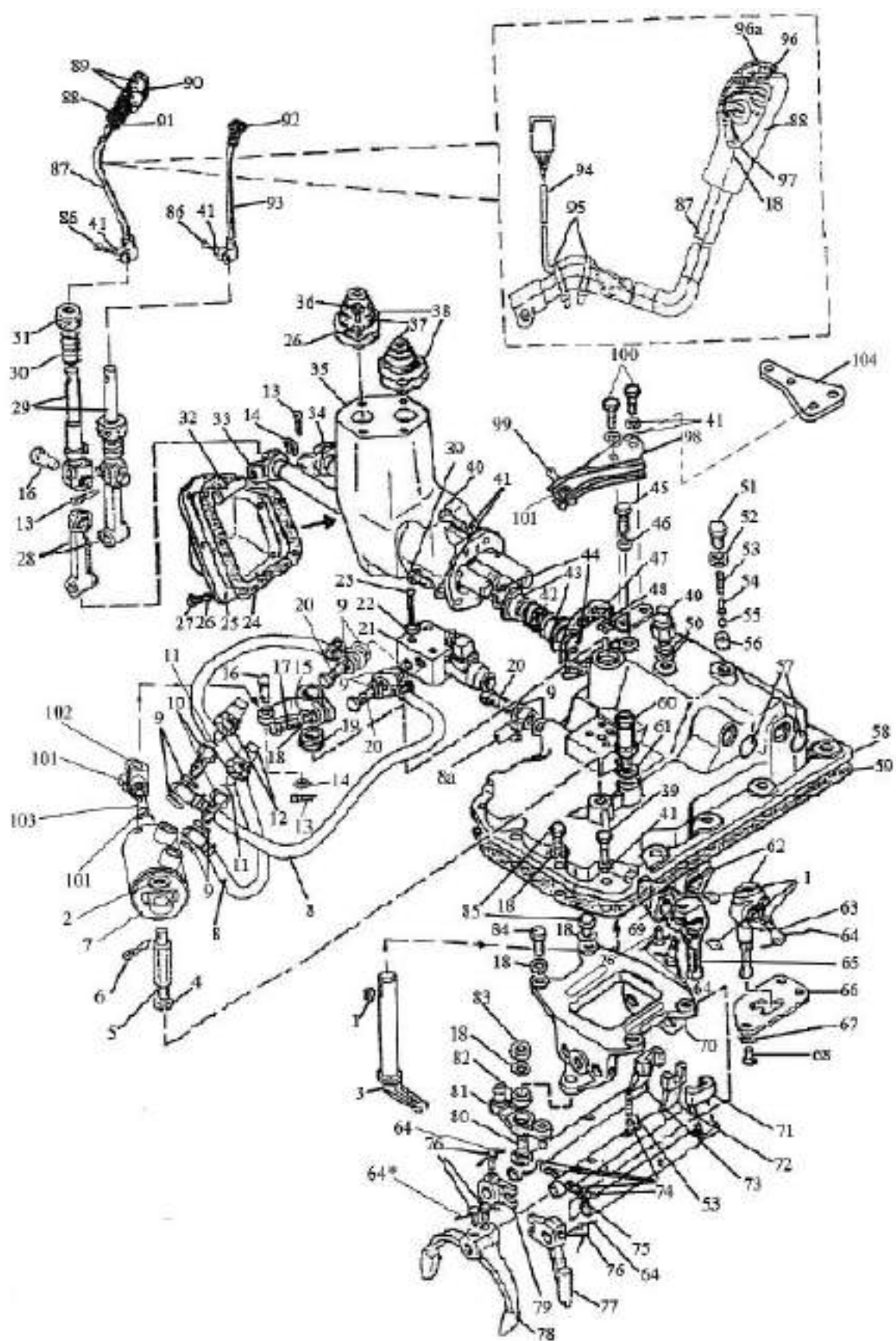


Fig. 17.13 GB control mechanism

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

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

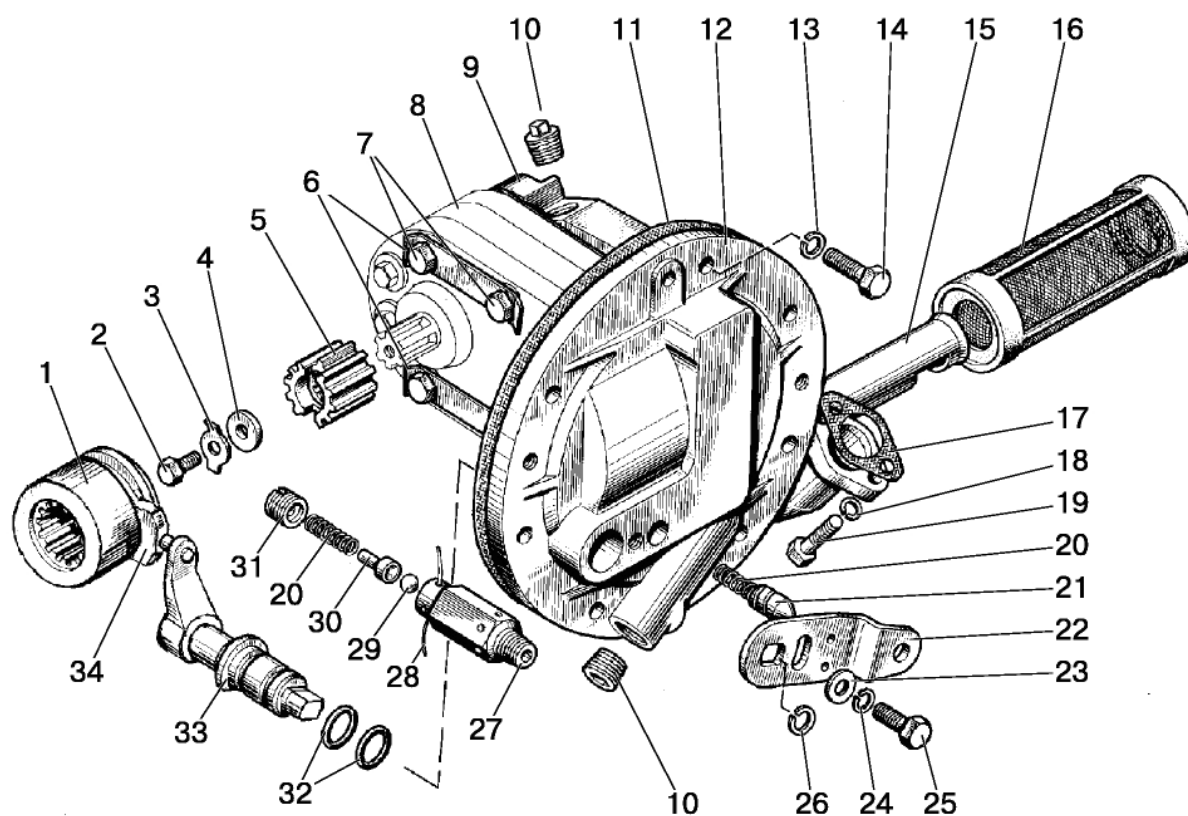


Fig. 17.14. Pump drive

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

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

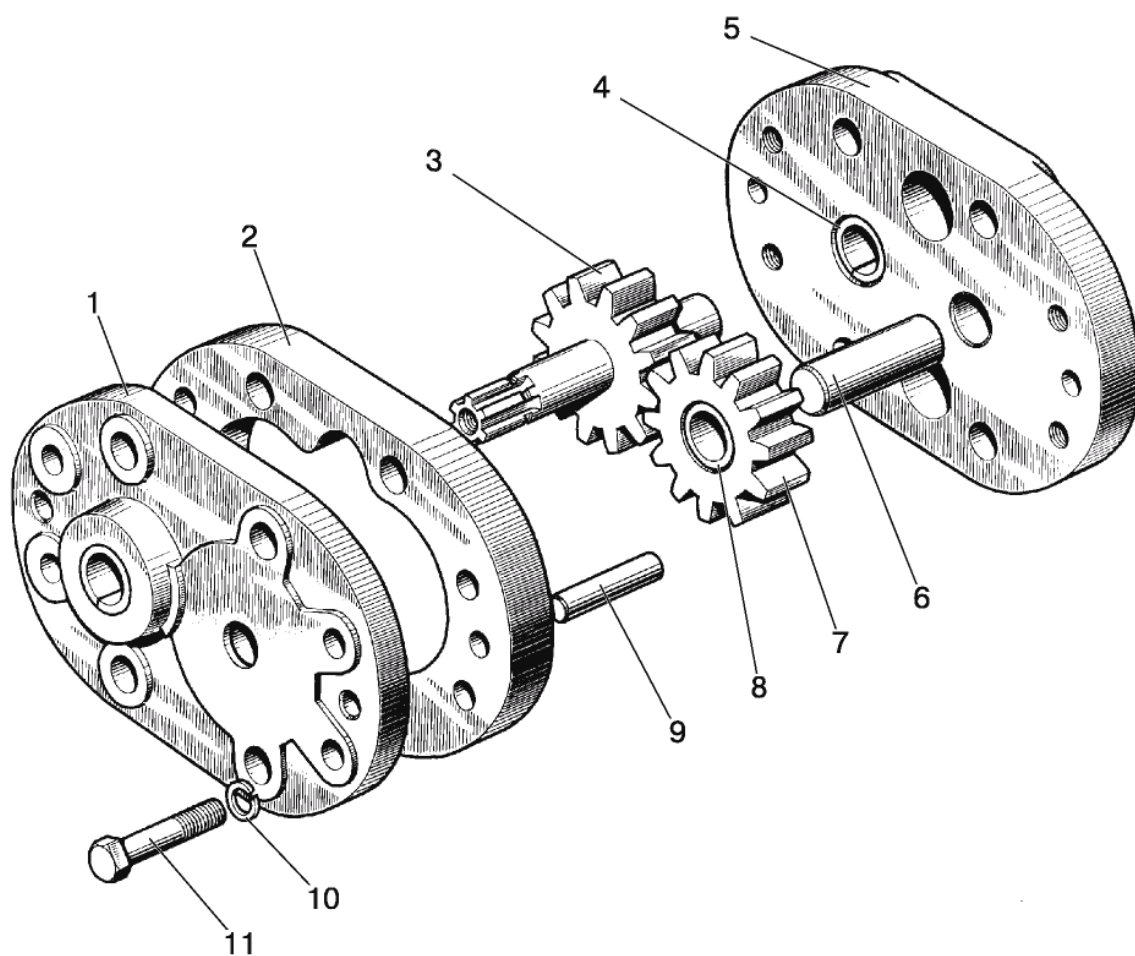


Fig. 17.15. Gear-type oil pump

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

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

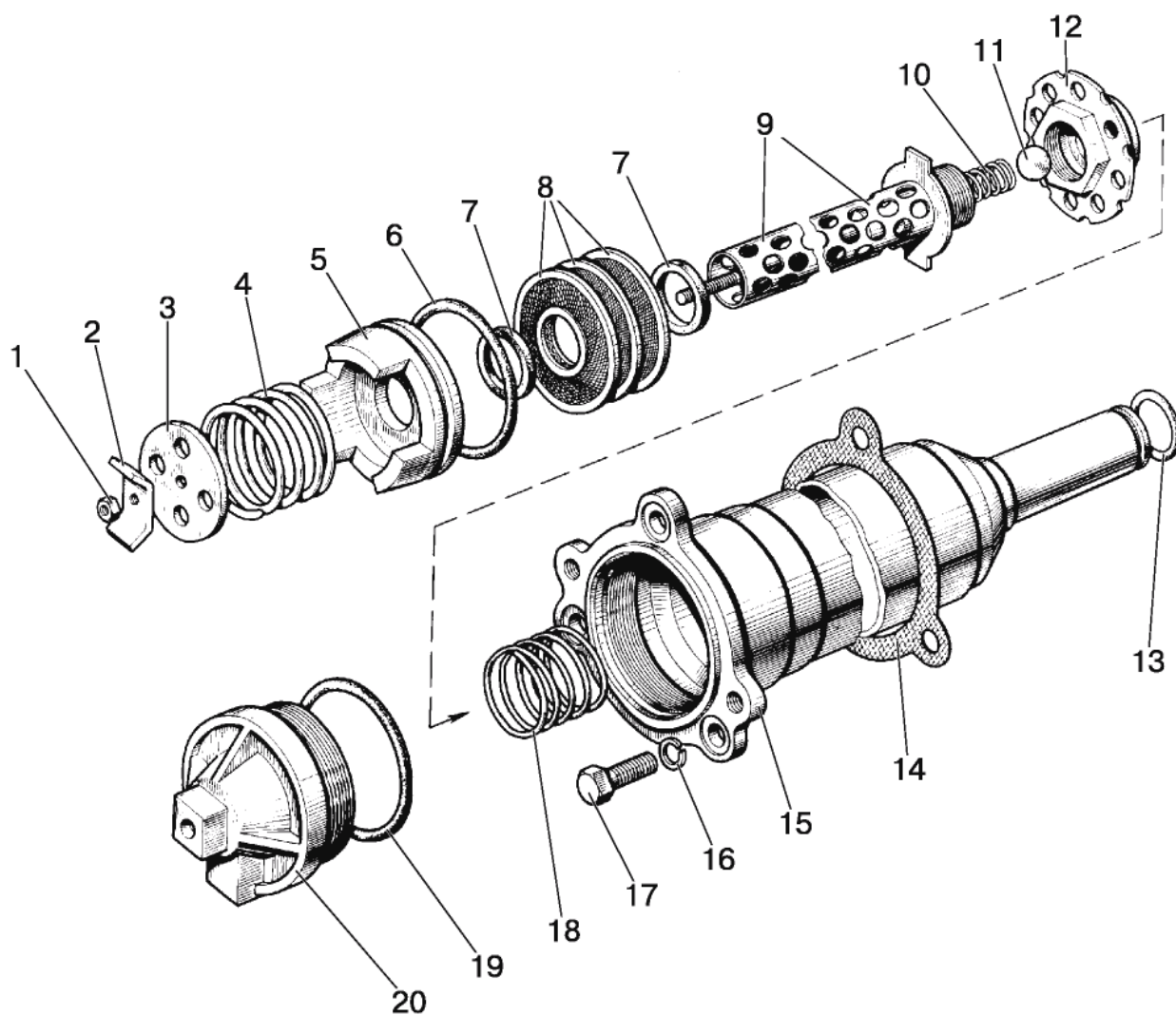


Fig. 17.16. Filter

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

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

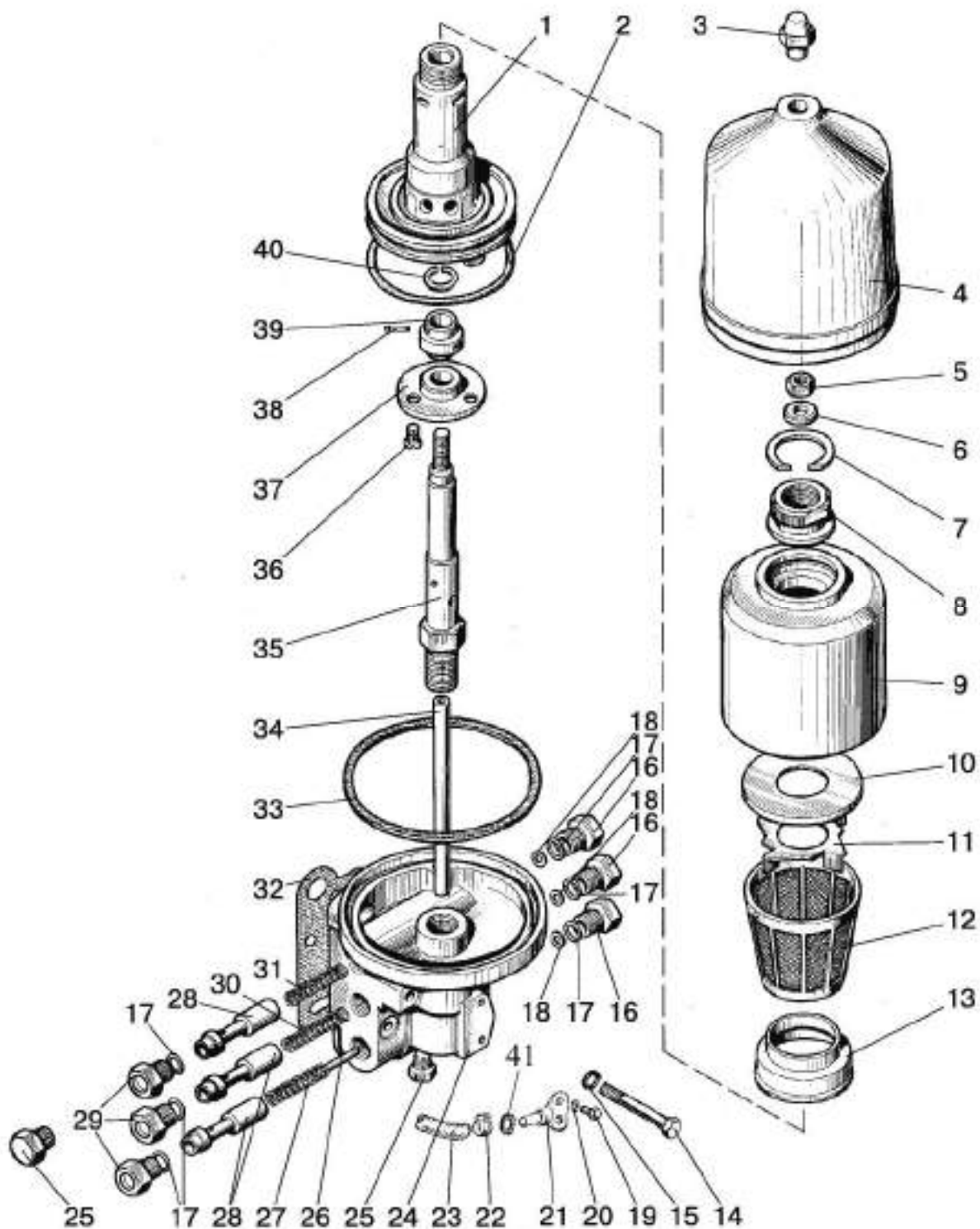


Fig. 17.17. Distribution filter

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

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

* Upon demand

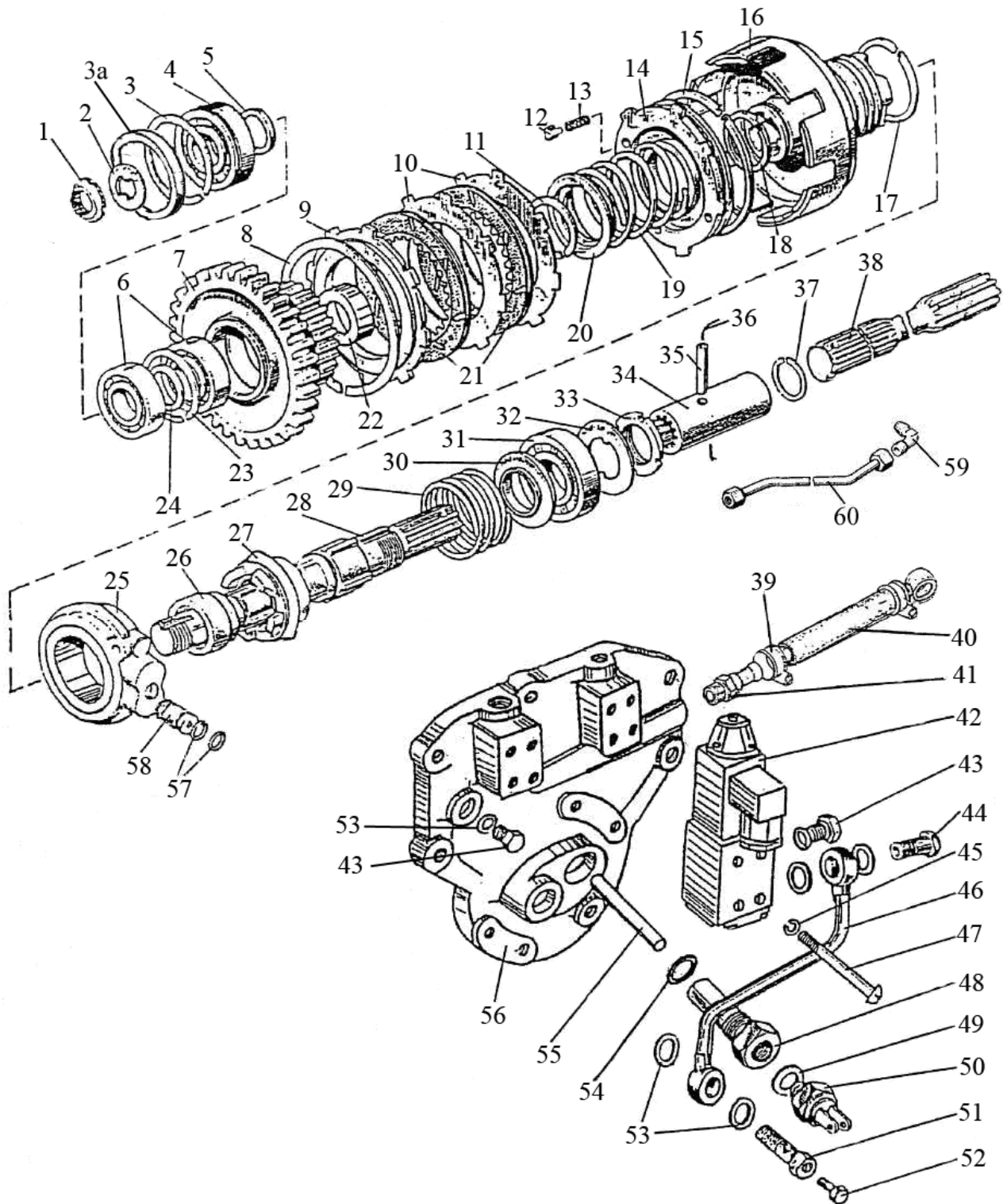


Fig. 18.1. Drive of front driving axle

**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)
		1221-1802065-Б	1	Shaft (28, 30-36)
		2022Д-1802070	1	Shaft (37, 38)
	1	1221-1802023	1	Nut
	2	1221-1802019	1	Washer
	3	80-1701397	1	Ring
	3a	86-1802024-A	1	Bushing
	4	6-50306K	1	Bearing
	5	86-1802043	1	Bushing
	6	206A	2	Bearing GOST 8338-75
	7	1221-1802041	1	Gear
	8	C135	1	Ring GOST 13941-86
	9	86-1802034	1	Thrust disk
	10	86-1802032*	3-4	Driven disk S=1,8 mm
		1221-1802032*	3-4	Driven disk S=2 mm
	11	C48	1	Ring GOST 13940-86
	12	86-1802039	2	Guide
	13	86-1802048	2	Spring
	14	1221-1802031	1	Piston
	15	86-1802047	1	Ring
	16	1221-1802036	1	Drum
	17	86-1802083-A	2	Ring
	18	1221-1802333	1	Ring
	19	86-1802038	1	Spring
	20	86-1802046	1	Sleeve
	21	86-1802035-A	7	Drive disk
	22	1221-1802044	1	Bushing
	23	C62	1	Ring GOST 13943-86
	24	86-1802049	1	Ring
	25	1221-1802025	1	Cage
	26	86-1802028	1	Bushing
	27	8020-1802026	1	Half coupling
	28	1221-1802013-Б	1	Shaft
	29	86-1802027	1	Spring
	30	86-1802051	1	Washer
	31	207	1	Bearing GOST 8338-75
	32	86-1802052	1	Washer
33	52-2308097	1	Nut	
34	86-1802014-Б	1	Bushing	
35	A.8x40.65Г	1	Pin GOST 14229-93	
36	1,6-0-C	1	Wire L=140 mm	
37	86-1802017-Б	1	Ring	
38	2022Д-1802042	1	Shaft	

* Selection

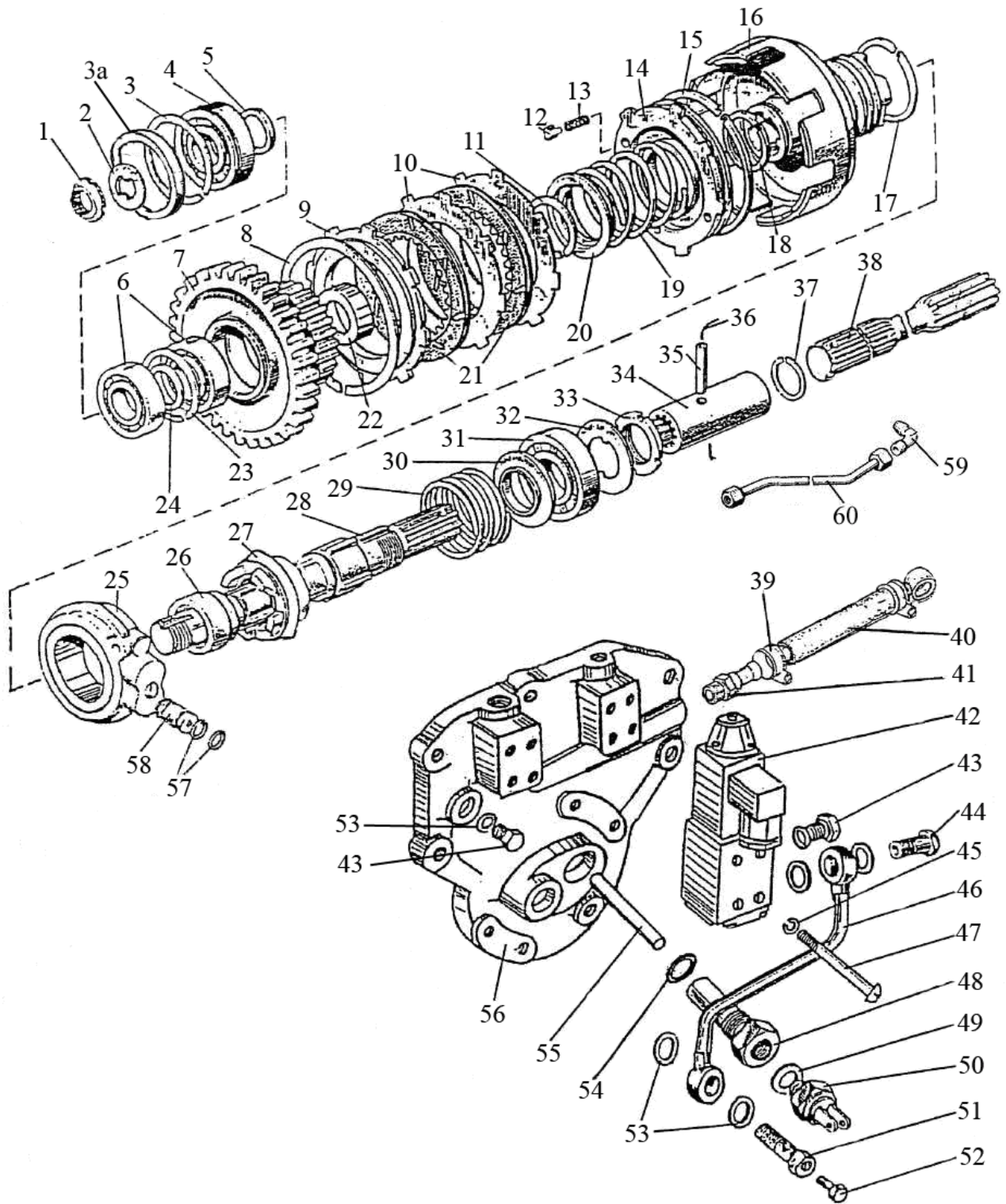


Fig. 18.1. Drive of front driving axle

**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	39	12-20/9 C6W	1	Clamp «NORMA»
	40	1221-1802060-Б	1	Pipe line
	41	85-3407470	1	Union body
	42	RH 06101-012/00GA-AMP or 1 PGE-6T/3.574E.Г12.01	1	Hydraulic distributor valve TU 213.201.011-98 Hydraulic distributor valve TU RB 400051624.093-2004
	43	1221-1802091	3	Thread plug
	44	Д18-051	1	Bolt
	45	5T	8	Washer OST 37.001.115-75
	46	1221-1802050	1	Pipe line
	47	В.М5х50-6gx50.58.019	8	Screw GOST 17473-80
	48	8020-1802018	1	Guide
	49	50-1702048*	6 (max)	Gasket
	50	BK 12-51	1	Switch
	51	1520-1802088	1	Bolt
	52	КГ 1/8".А12.019	1	Plug TU 23.1.506-91
	53	Д18-055-А	7	O-ring
	54	019-022-19-2-2	1	Ring GOST 18829-73/GOST 9833-73
	55	8020-1802029	1	Lifter
	56	1221-1802016	1	Cover
	57	011-016-30-2-4	2	Ring GOST 18829-73/GOST 9833-73
	58	1221-1802054	1	Bushing
59	86-1802088	1	Elbow	
60	86-1802055	1	Pipe line	

* Selection

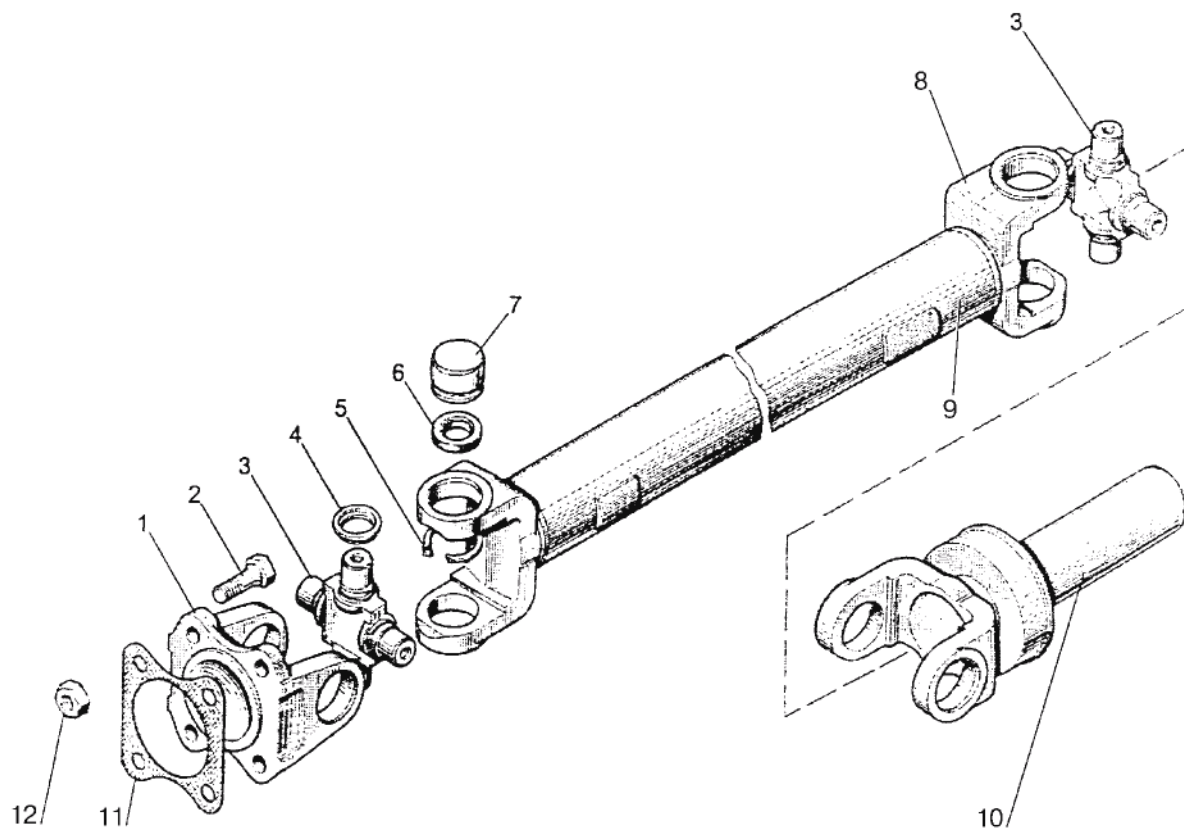


Fig. 22.1. Cardan drive

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

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

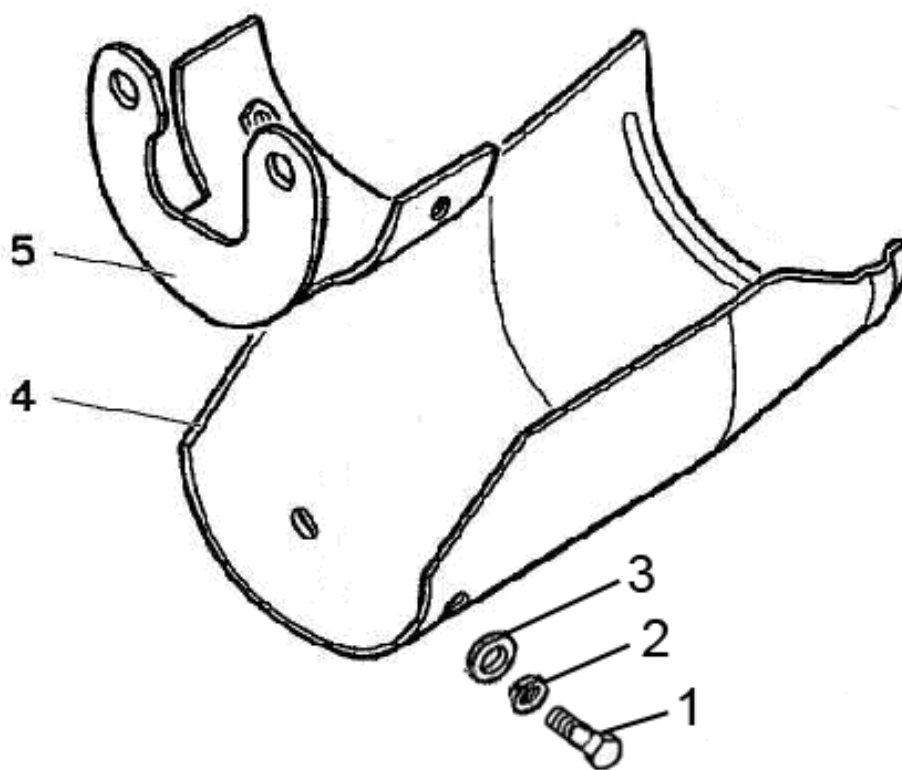


Fig. 22.2 Guard

Group 22. Cardan drive
Subgroup 2210. Guard

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

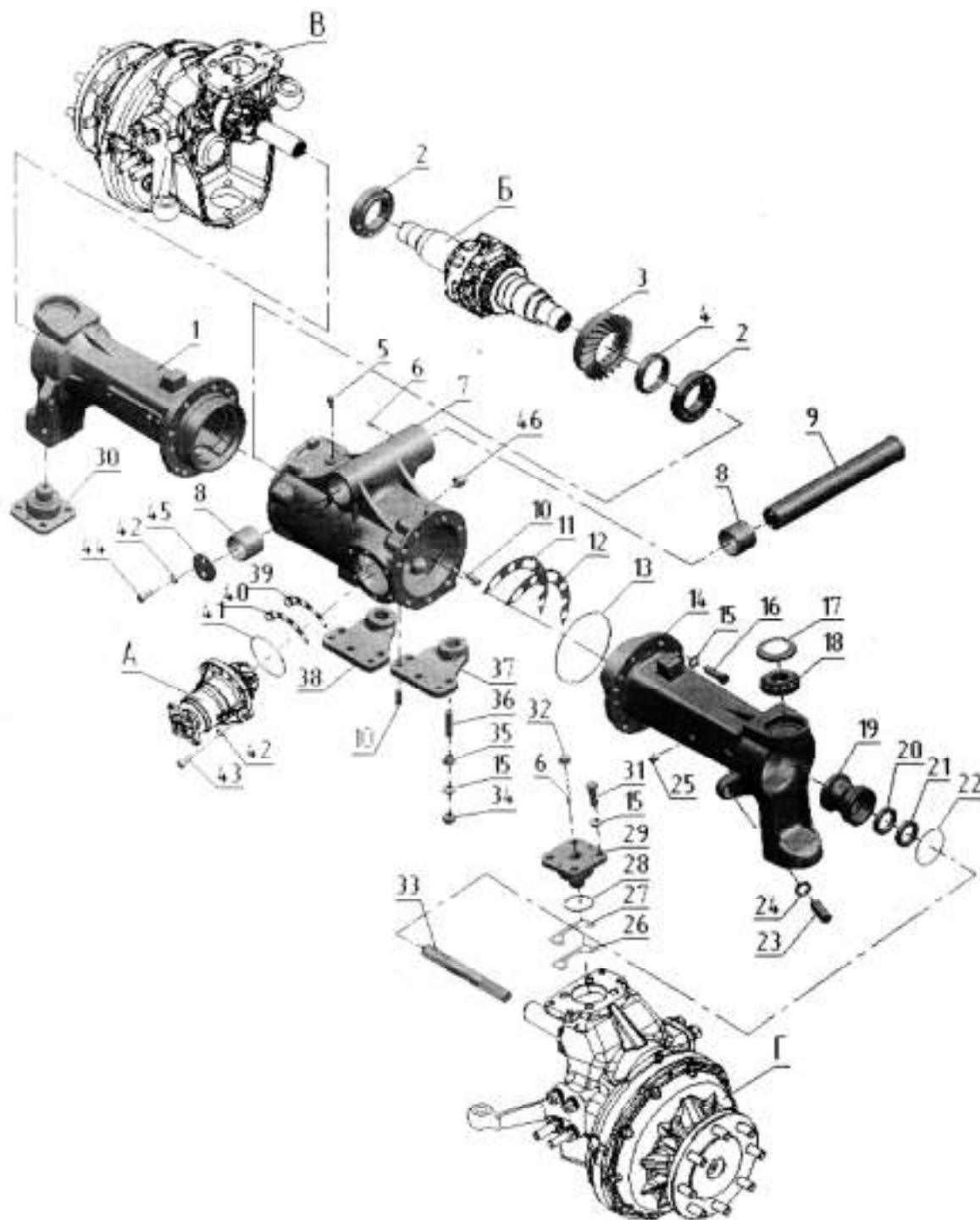


Fig. 23.1. Front driving axle

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

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

* For FDA 1222-2300020

** For FDA 1222-2300020-05

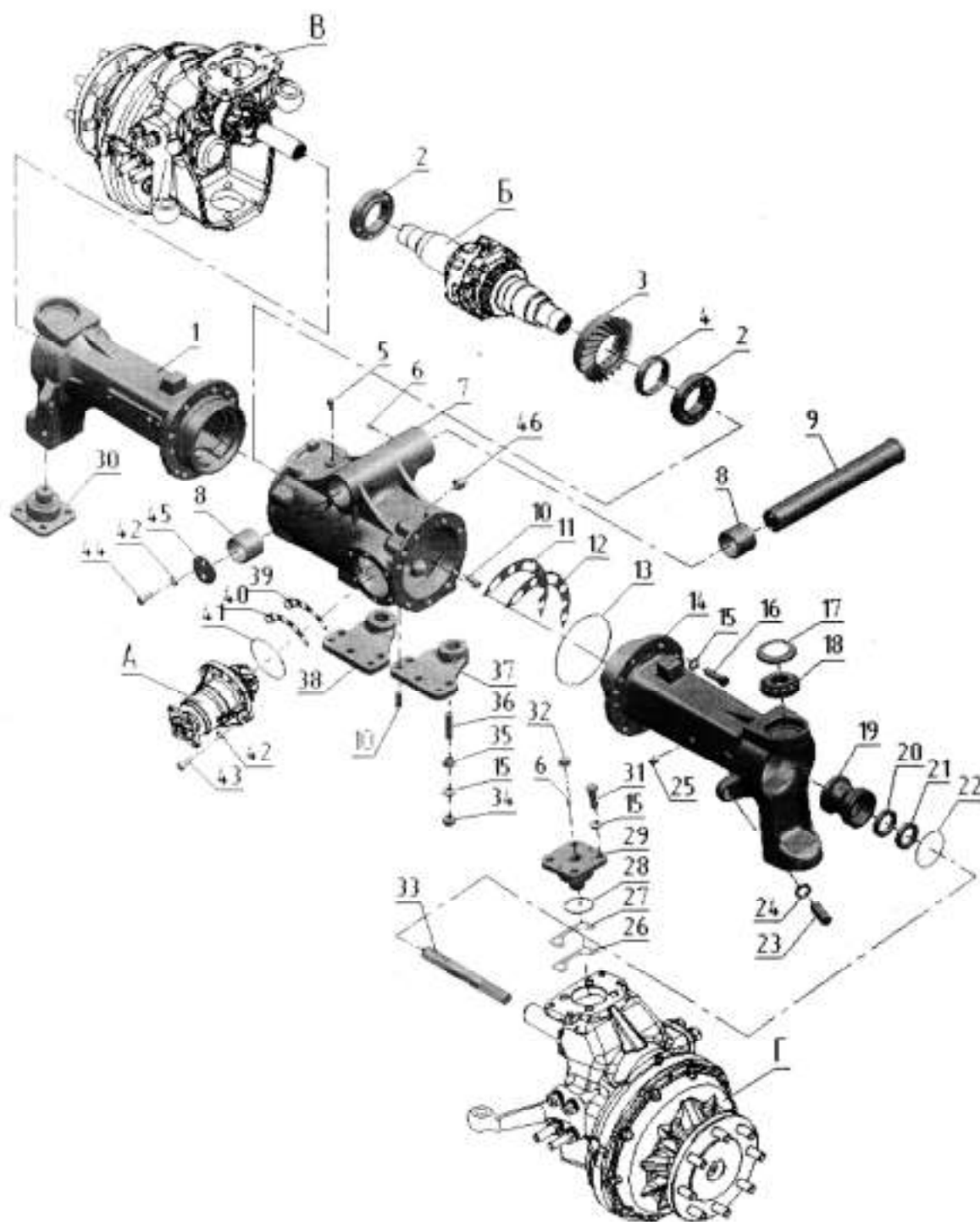


Fig. 23.1. Front driving axle

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

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

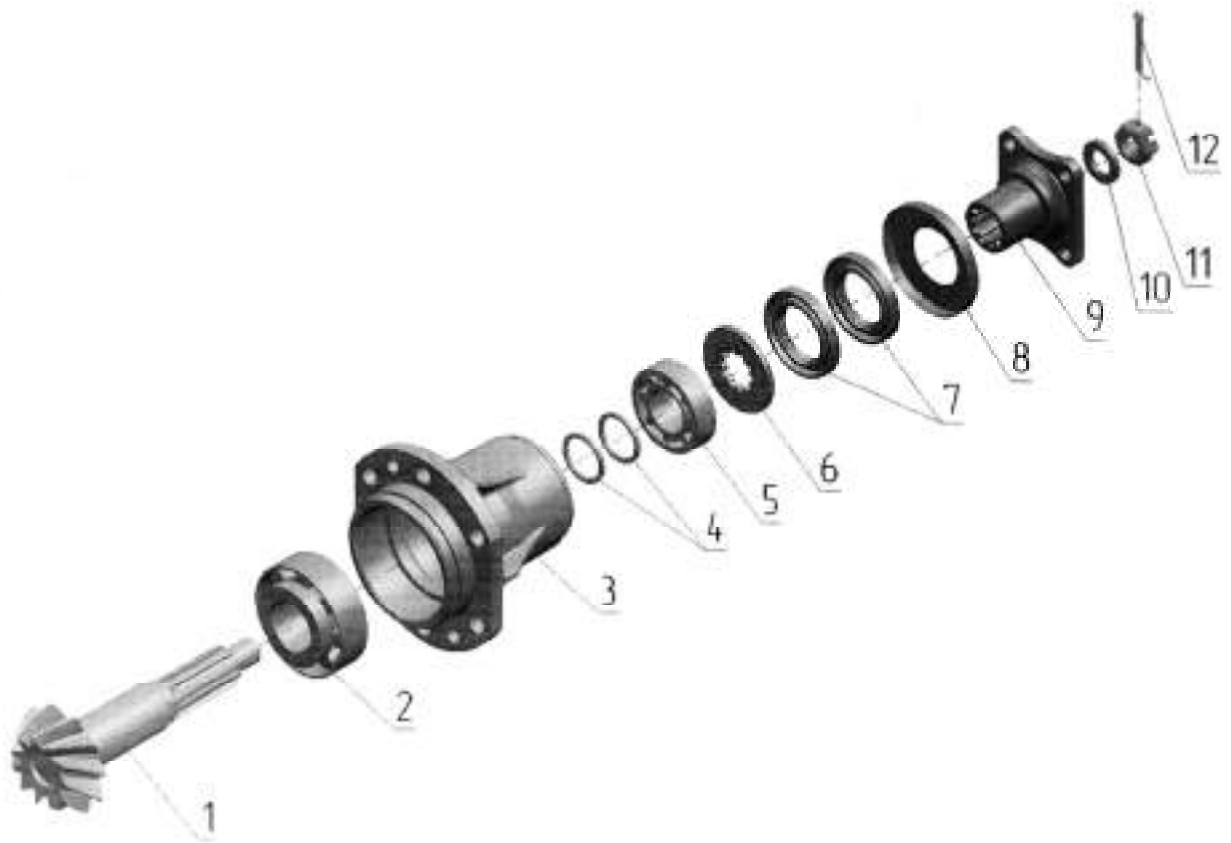


Fig. 23.2 Gear

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

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

* Selected at the bearing regulation

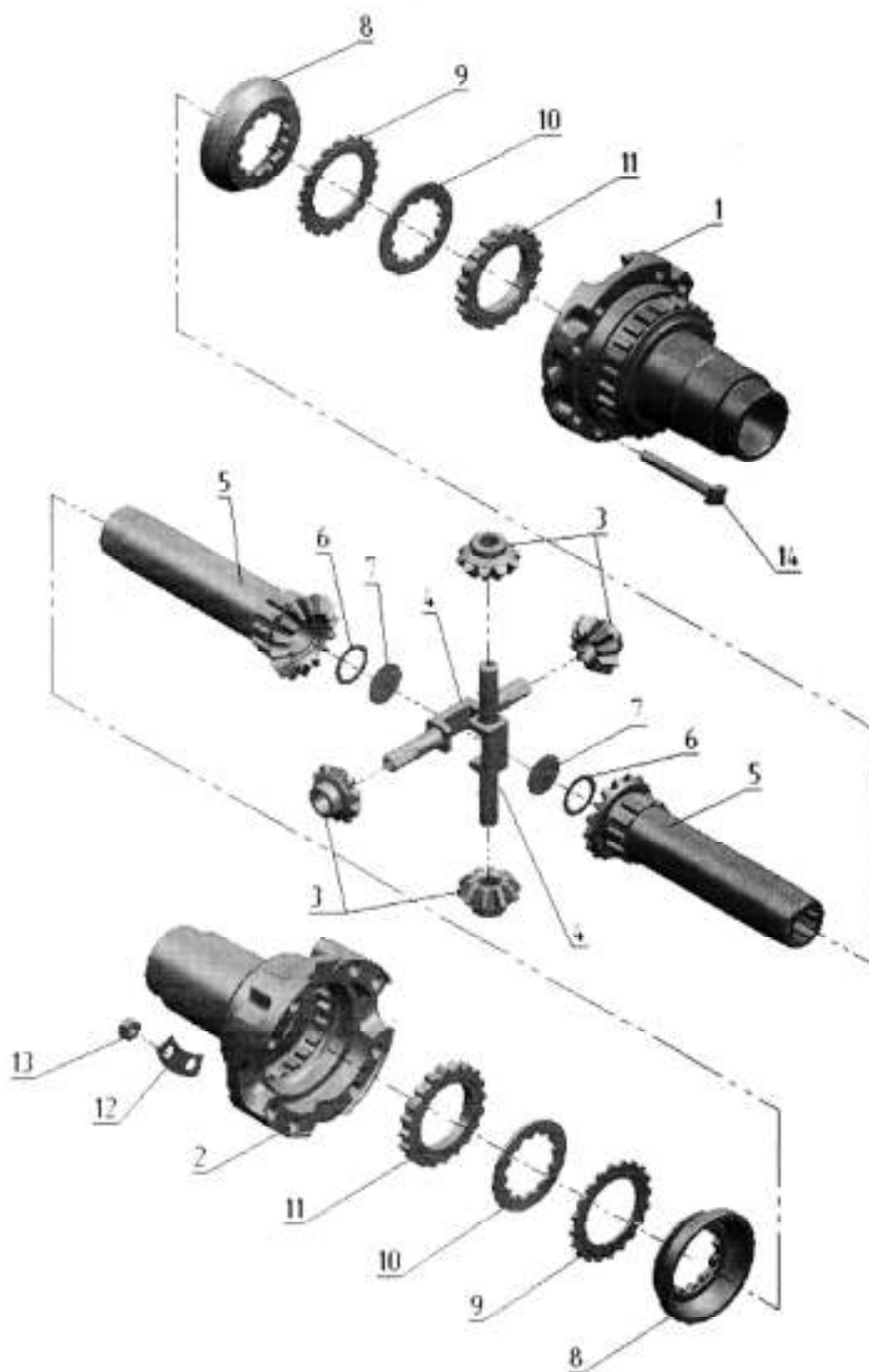


Fig. 23.3 Differential

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
23.3		52-2303010-Б	1	Differential (1-14)
		52-0203030	2	Gear(5-7)
	1	52-2303014-Б	1	Box
	2	52-2303015-Б	1	Box
	3	52-2303018	4	Satellite gear
	4	52-2303019	2	Axis
	5	52-2303017	2	Gear
	6	52-2303034	2	Gasket
	7	35-10кп.Ц9.хр	2	Blind plug GOST 3111-81
	8	52-2303021	2	Cup
	9	52-2303023-A1-01	2	Disk
	10	52-2303024-01	2	Disk
	11	52-2303023-A1	2	Disk
	12	52-2303032	4	Plate
13	52-2303013	8	Nut	
14	52-2303026-Б	8	Bolt	

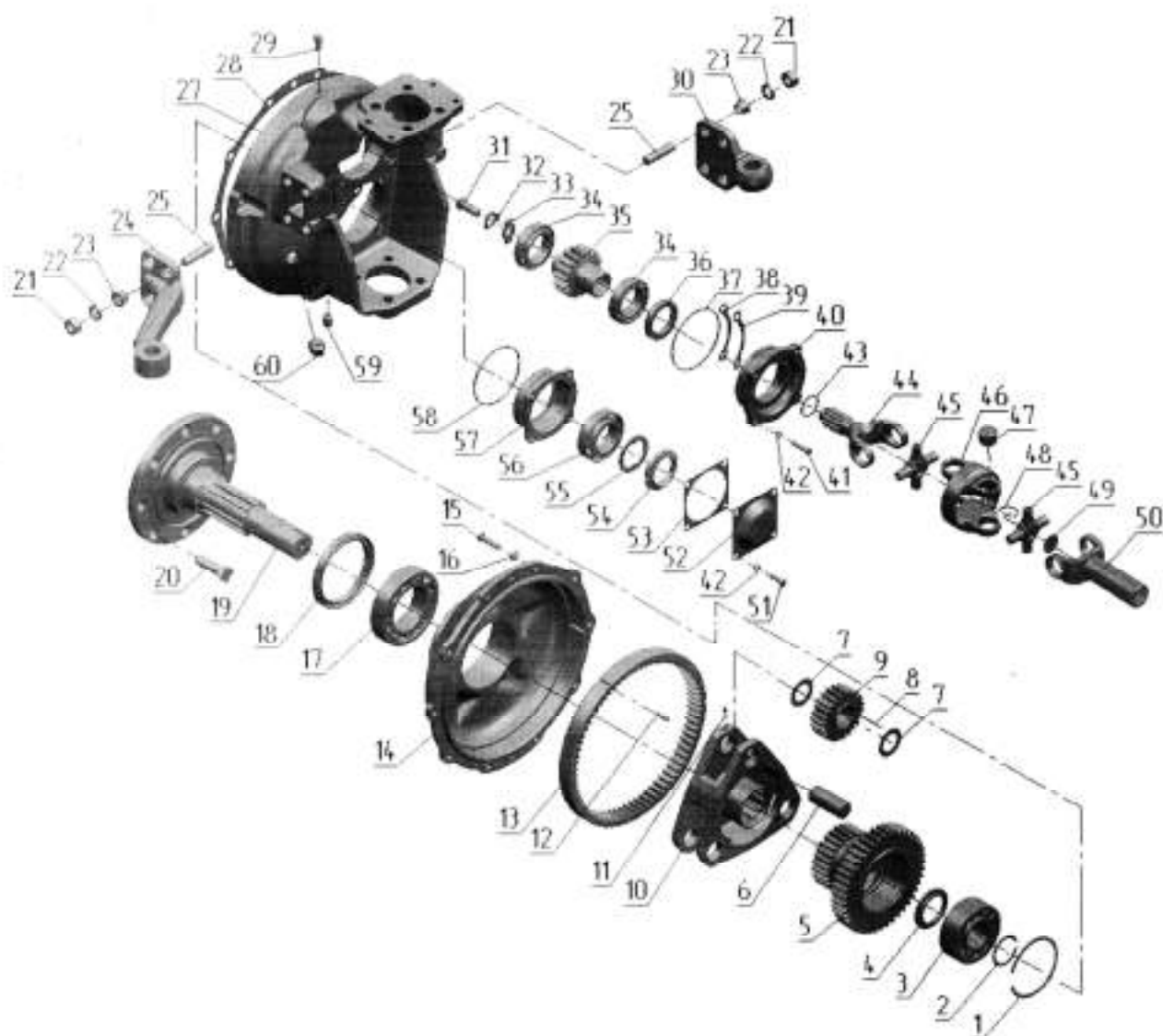


Fig. 23.4 Wheel-hub drive

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

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

** For FDA 1222-2300020-05

* For FDA 1222-2300020

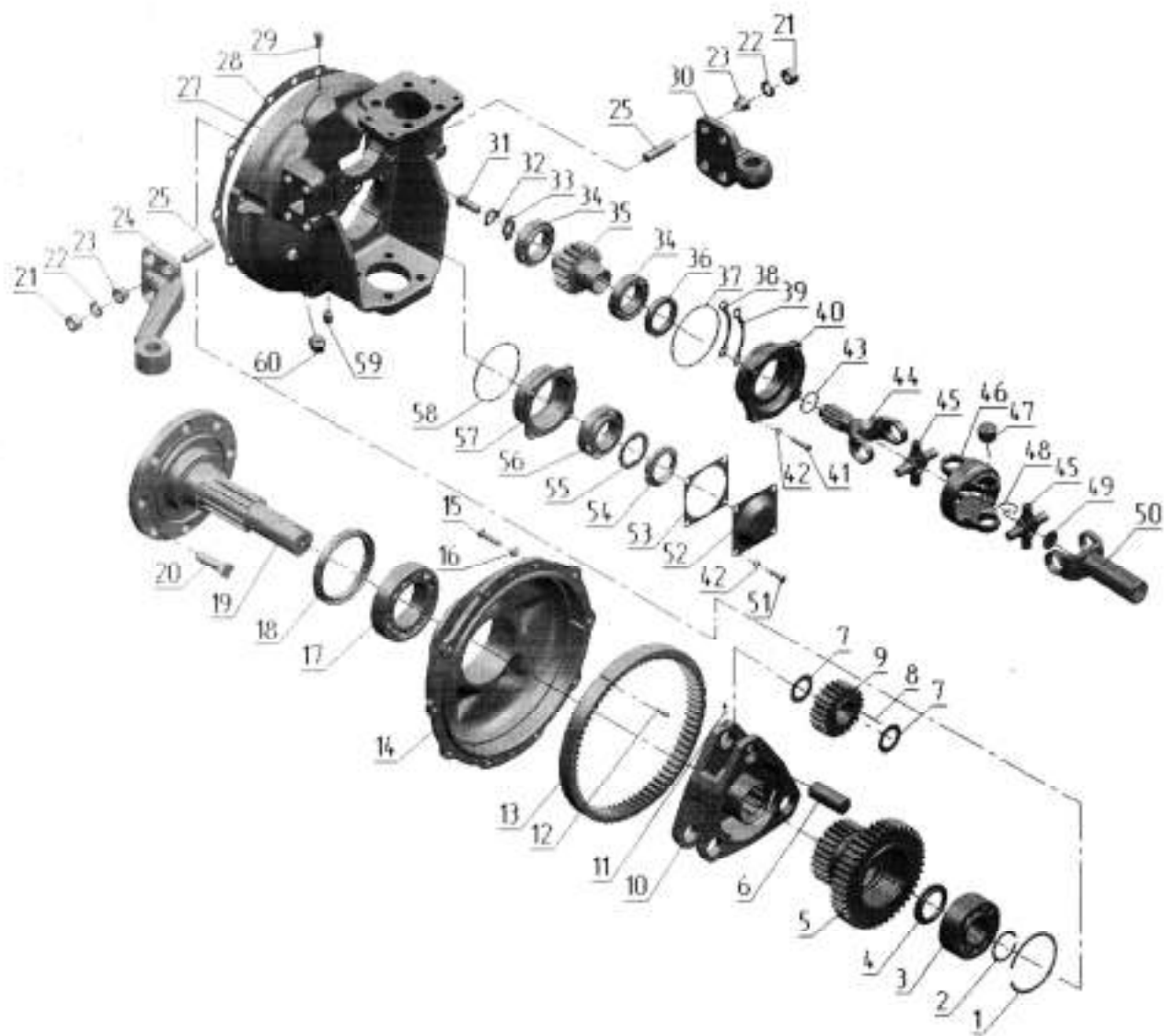


Fig. 23.4 Wheel-hub drive

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

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

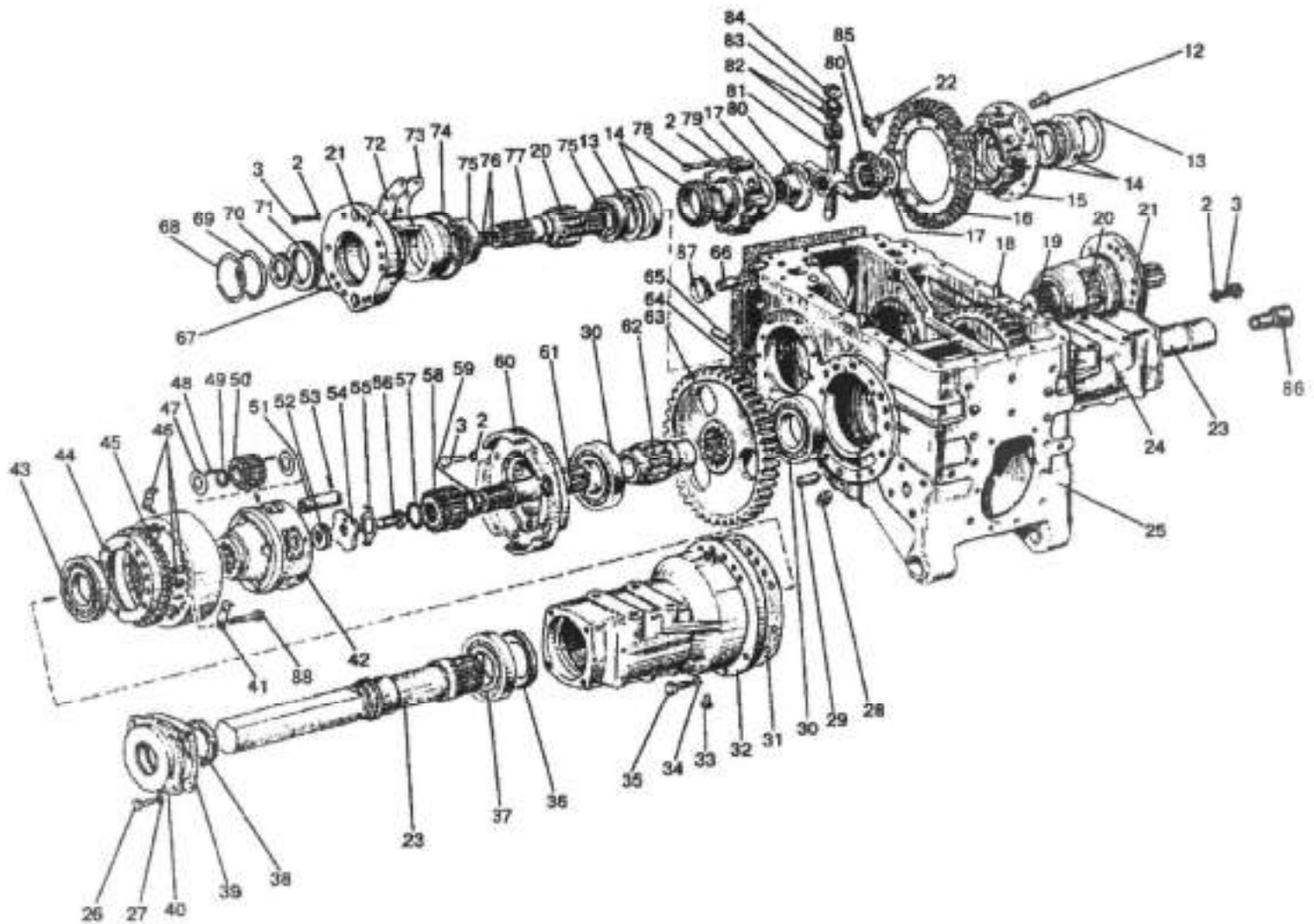


Fig. 24.1 Rear axle. Differential. Final drives

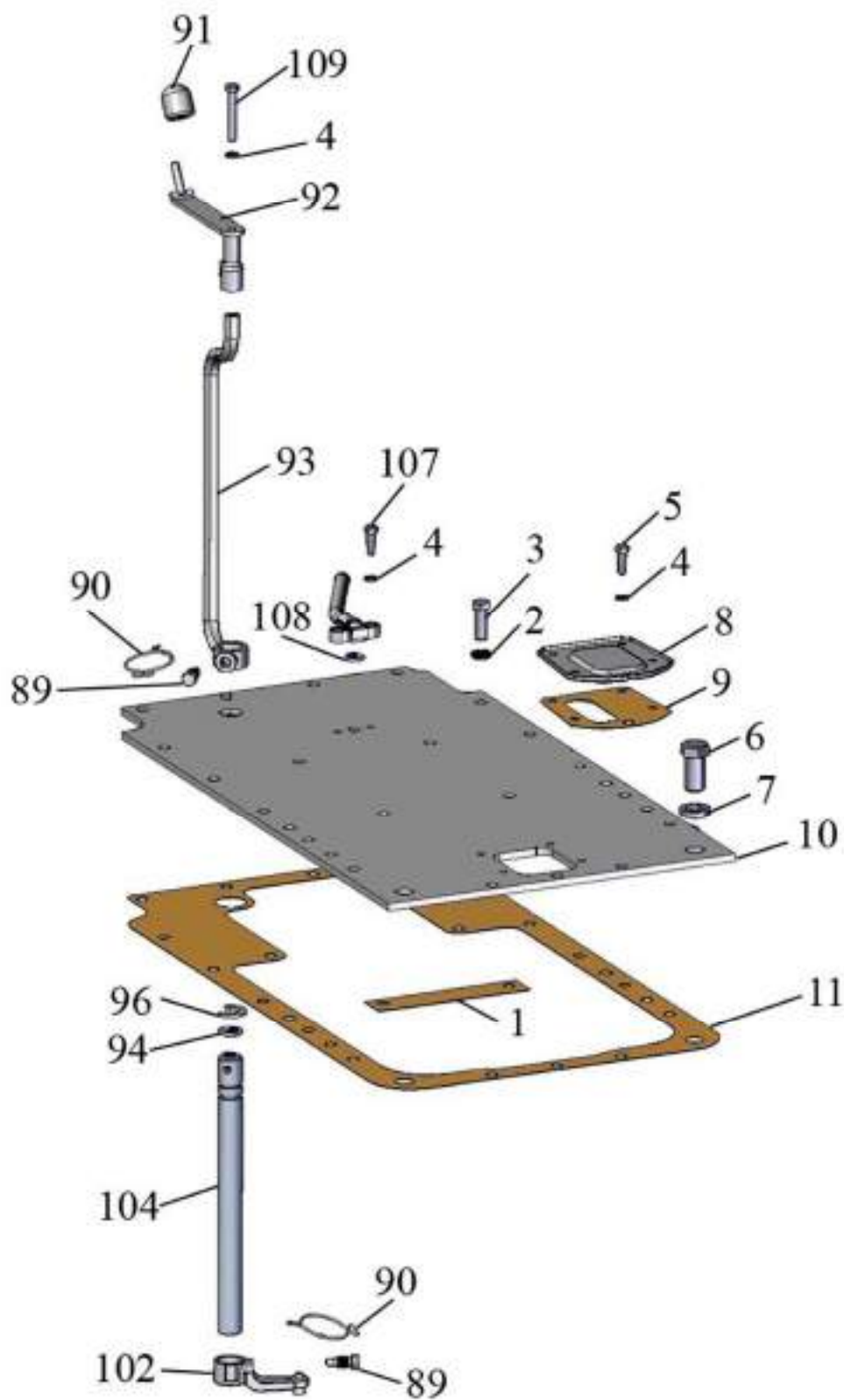


Fig. 24.1a. Rear axle. Differential. Final drives

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

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

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

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

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

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

Group 24. Rear axle

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

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

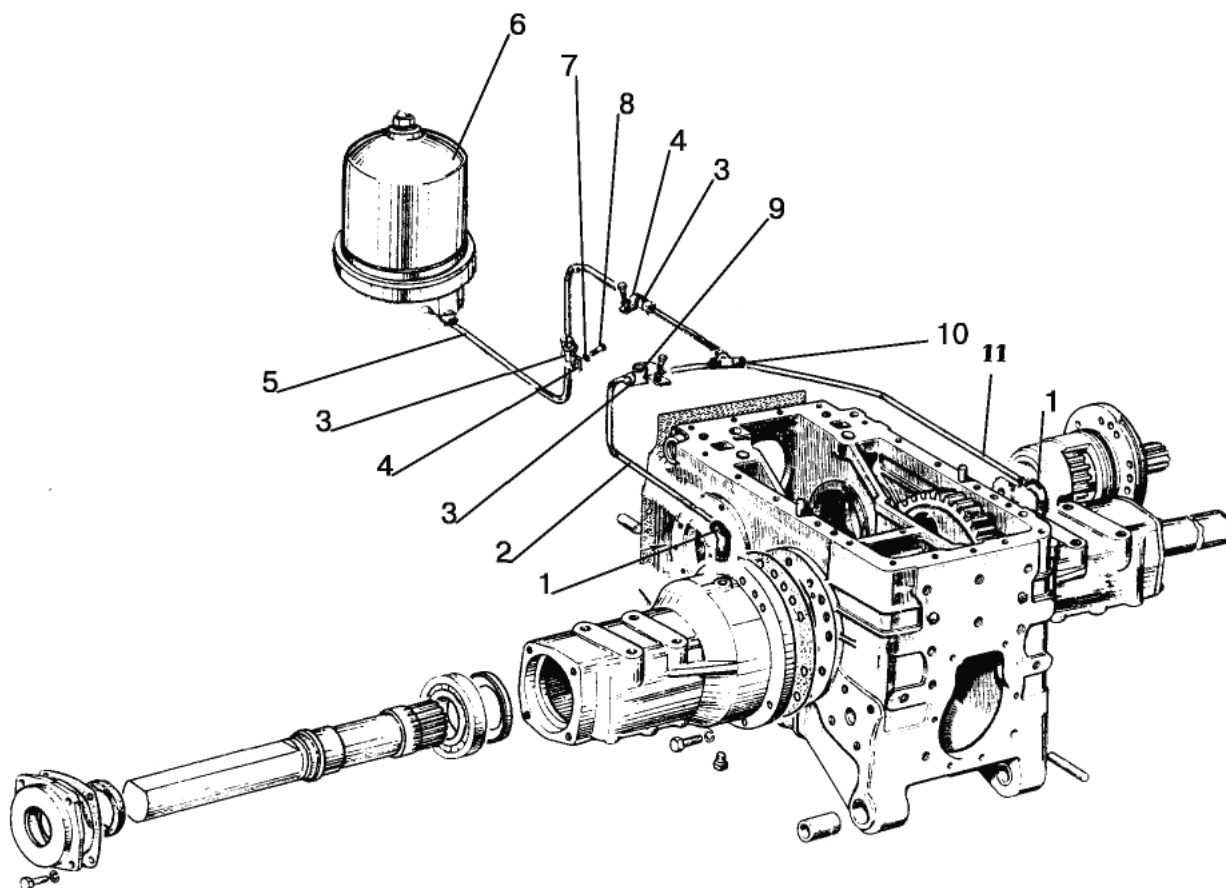


Fig. 24.2. Final drive (lubrication)

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

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

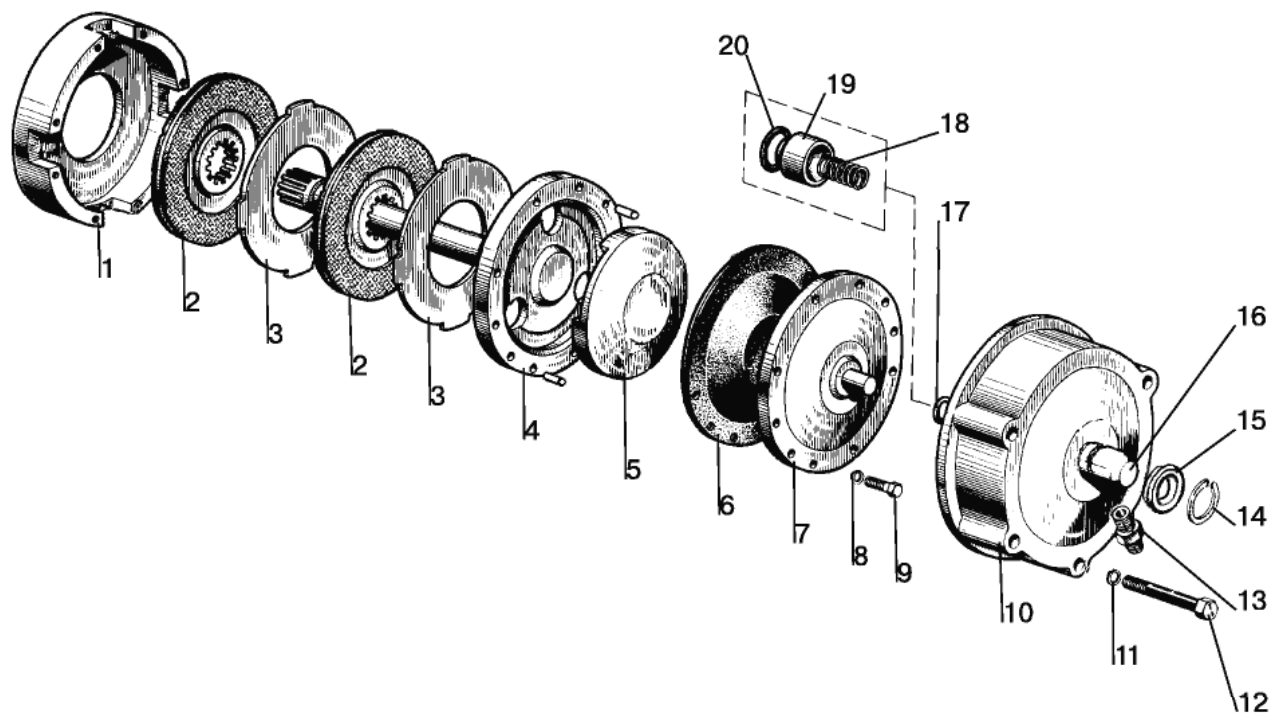


Fig. 24.3. Differential locking mechanism

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
24.3		70-2409010-Б * 70-2409010-Б-01	1	Lockup clutch (1-9)
		82P-2409050	1	Adapter (10, 13-20)
	1	70-2409015-A	1	Clutch housing
	2	70-3502040-01 or 70-3502040-04	2	Brake disk
	3	70-2409028	2	Release disk
	4	70-2409020 * 70-2409020-01	1	Lock shaft
	5	70-2409018	1	Pressure disk
	6	70-2409021	1	Diaphragm
	7	70-2409030-Б	1	Diaphragm cover
	8	ШП 8	8	Washer
	9	M8x40	8	Bolt
	10	70-2409035-A6	1	Housing
	11	ШП 12	5	Washer
	12	M12x200* 1522-2409034	5	Bolt
	13	70-2409037	1	Union body
	14	C40	1	Ring
	15	82P-2409036A	1	Seal
	16	70-2409026-Б	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-Б	1	Ring	

* If double-disk brakes are installed.

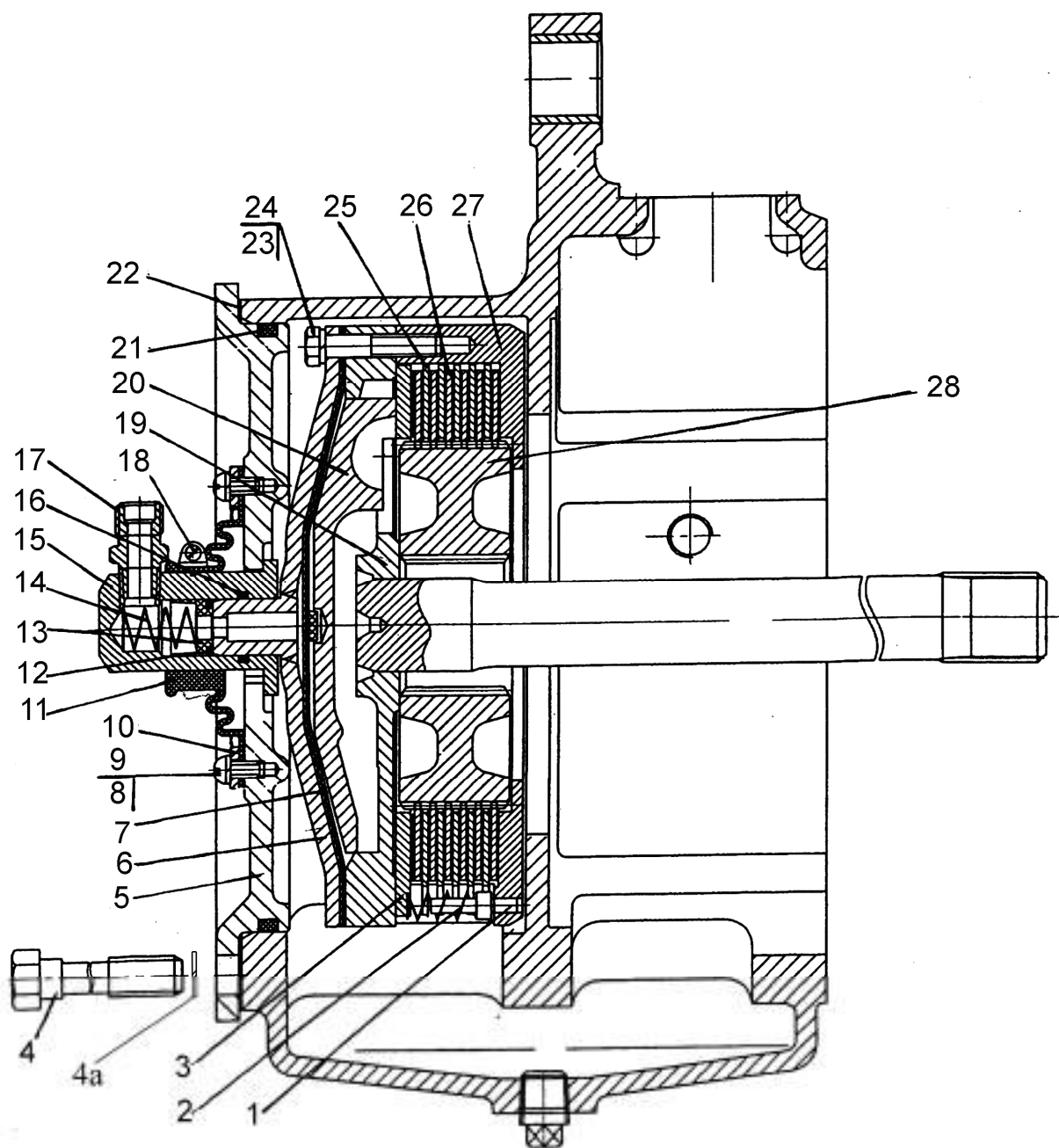


Fig. 24.4. Wet-type differential locking mechanism

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

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

* Selected during the installation for required gap.

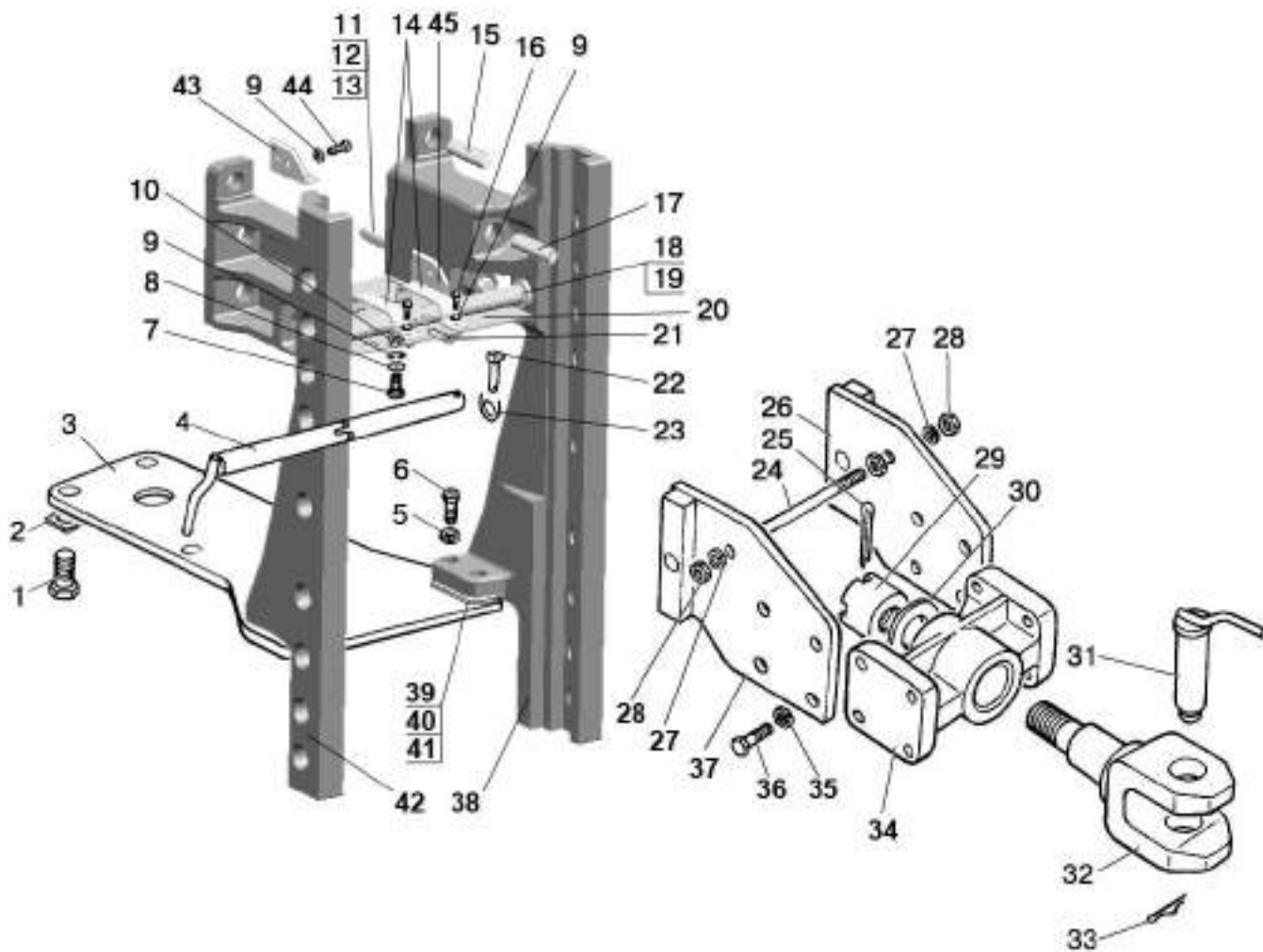


Fig. 27.1. Drawbar hitch

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

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

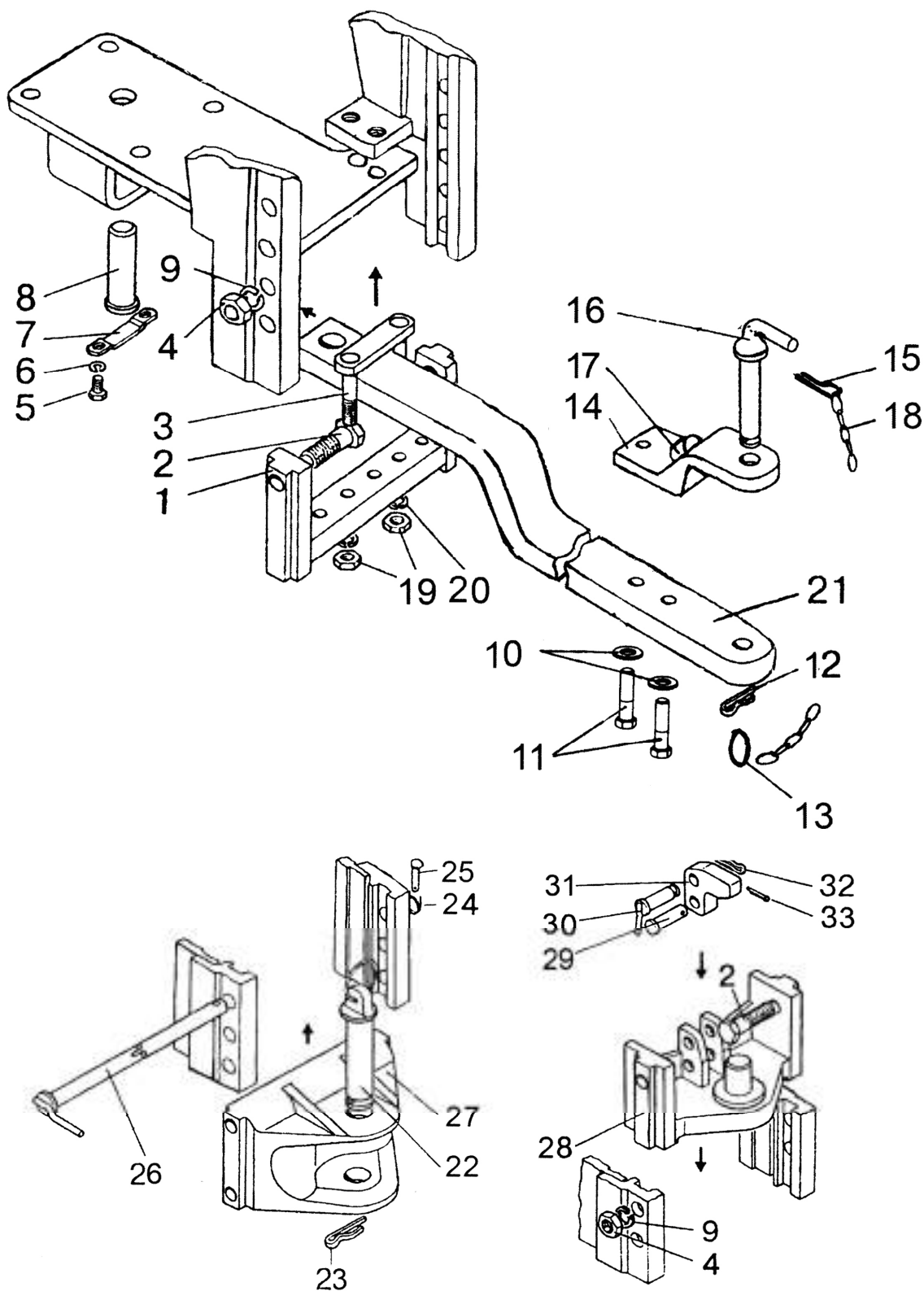


Fig. 27.2. Drawbar hitch (configuration variants)

Subgroup 2707. Drawbar hitch (configuration variants)

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
27.2		1321-2707150-Б1	1	Rod (11-19, 25)
		1322-2707160	1	Python (40-44, 46)
	1	1322-2707130-Б	1	Cross bar
	2	1322-2707133	4	Bolt
	3	1322-2707120-Б1	1	Joke
	4	M20	4	Nut
	5	M10	2	Bolt
	6	ШП 10	2	Washer
	7	1522-2707126	1	Plate
	8	1522-2707127	1	Axis
	9	ШП 20	4	Washer
	10	1523-2707146	2	Washer
	11	1523-2707149-Б	2	Bolt
	12	A61.07.001-A	1	Forelock
	13	H50-4202146	1	Ring
	14	1523-2707143	1	Lining
	15	3,2x25	1	Forelock
	16	1522-2707079-A	1	Kingpin
	17	1523-2707142	1	Joke
	18	70-4235035	2	Chain
	19	M16	2	Nut
	20	ШП 16	2	Washer
	21	1321-2707144-Б1	1	Rod
	22	1321-2707140-Б	1	Kingpin
	23	1321-27070342	1	Forelock
	24	A61.05.004	1	Ring
	25	A61.05.005	1	Chock
	26	1321-2707030	1	Pin
	27	1321-2707113-A	1	Yoke
	28	1322-2707165	1	Plate with python
	29	1322-2707162-01	1	Pin
	30	1322-2707180	1	Pin
	31	1322-2707161	1	Thrust
32	A61.07.001	1	Forelock	
33	4x36	1	Forelock	

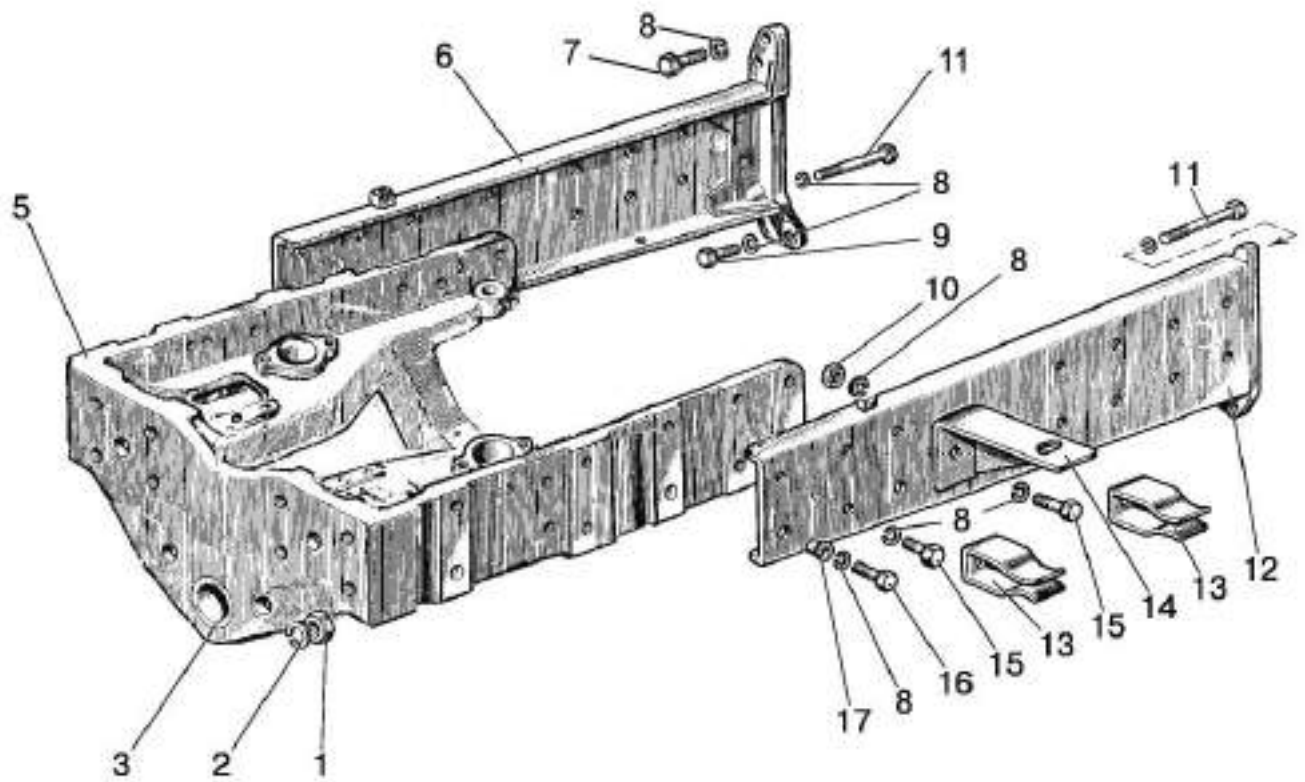


Fig. 28.1 Semi-frame assembly

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

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

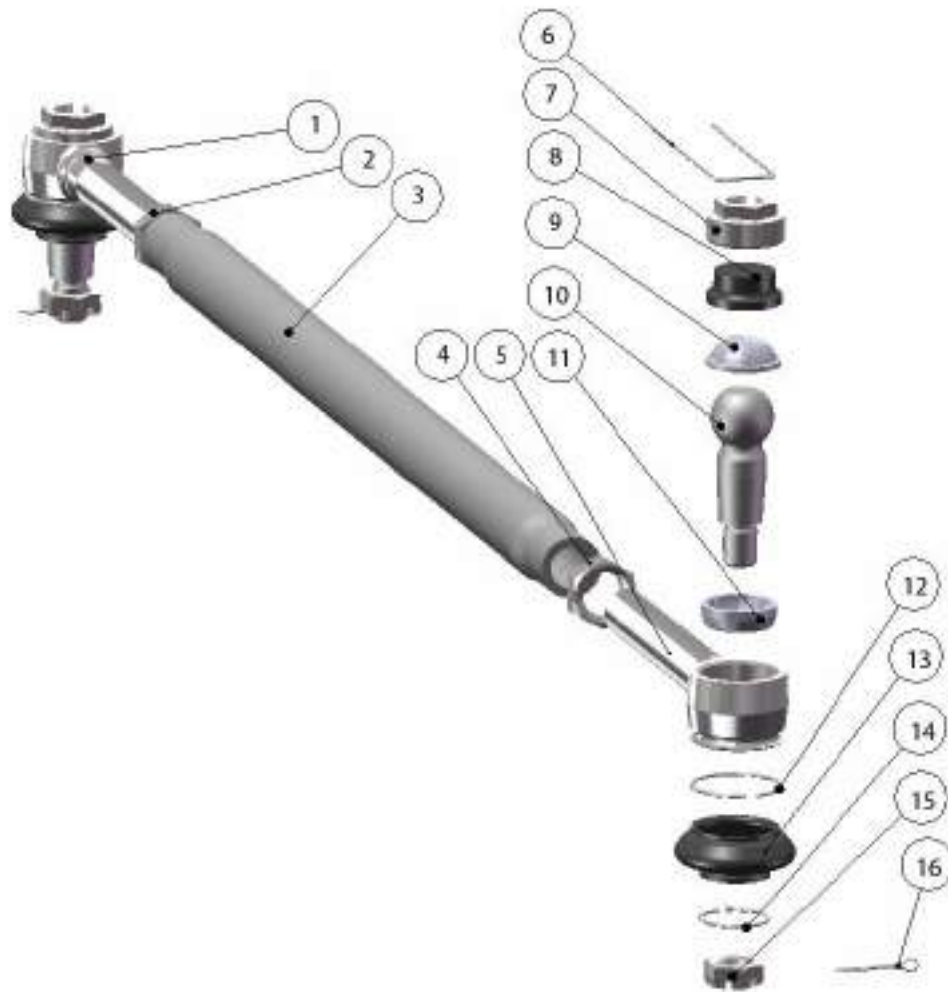


Fig. 30.1. Steering links

Subgroup 3003. Steering links

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

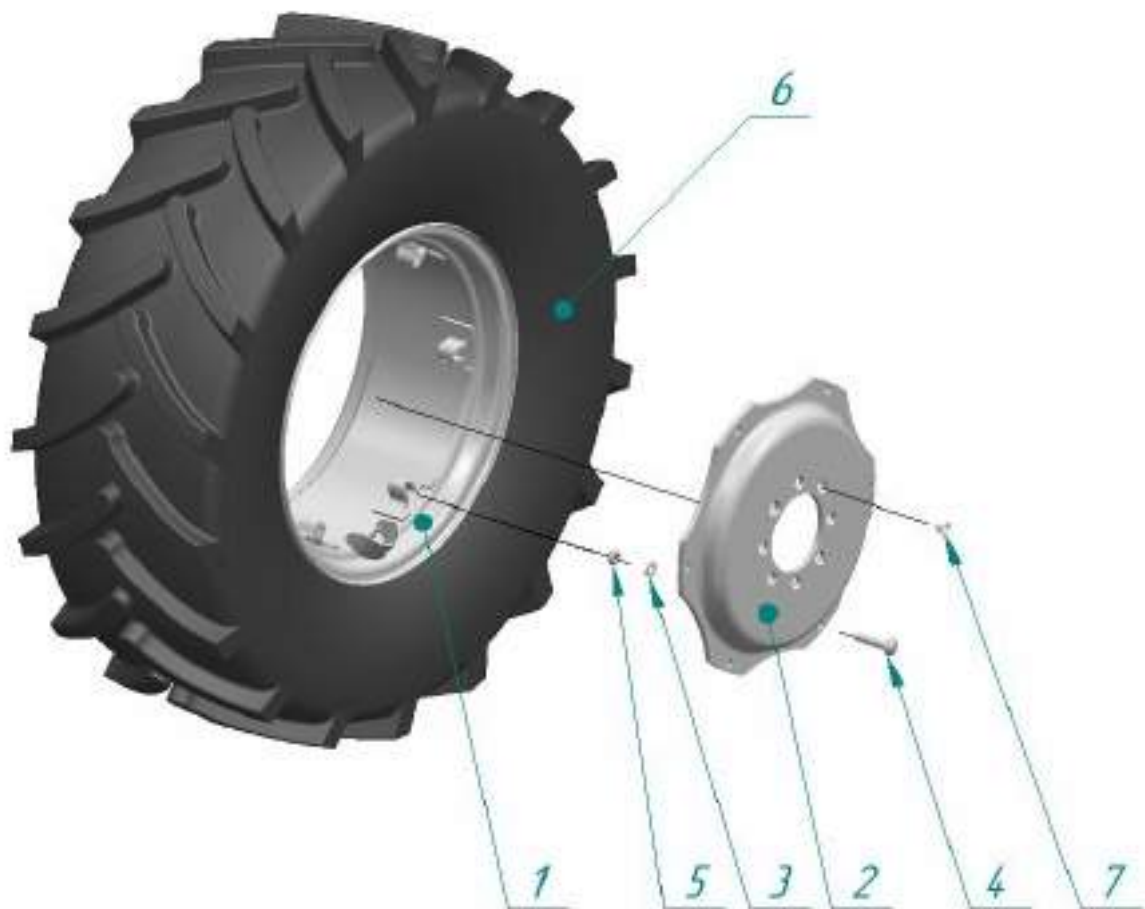


Fig. 31.1 Front driving wheels

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
31.1		1221-3101010-01 1221-3101010	2	Wheel (tyre 420/70R24 assembly) (1-6) or Wheel (tyre 14.9R24 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 or M16x1.5-6H.10.019	12	Nut Nut GOST 5915-70
	6		2	Tyre 420/70R24 or 14.9R24
7	40-3103017-01	16	Nut	

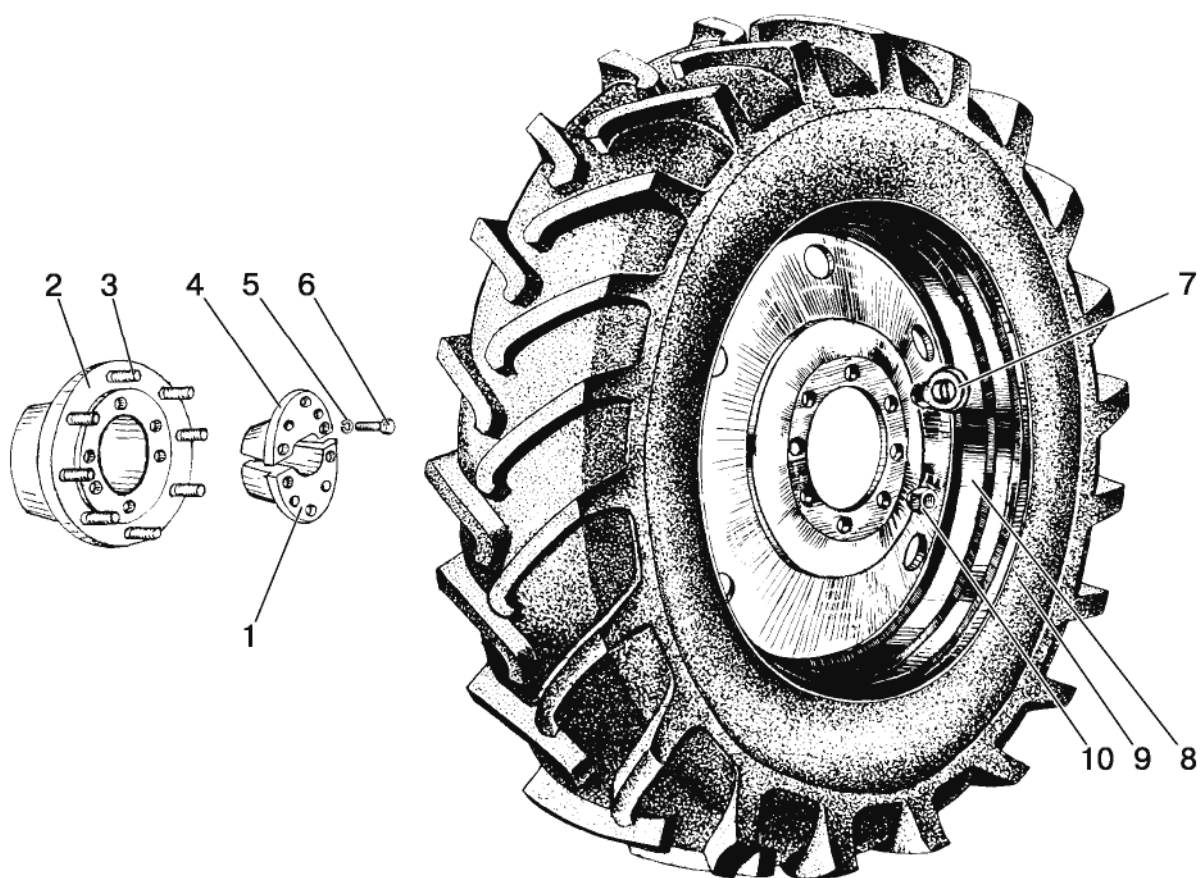


Fig. 31.2 Rear driving wheels. Rear wheel hubs

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
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	ШП 20	6	Washer
	6	70-4605036	6	Bolt
	7	70-3104019	2	Special nut
		1221-3107010*	2	Wheel 18.4R38 (tyre assembly) (8, 9)
	8	DW15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38
	9		2	Tyre 18.4R38
		72-3107010**	2	Wheel 16.9R38 (tyre assembly) (8, 9)
	8	DW15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38
	9		2	Tyre 16.9R38
	10	36-3104019	7	Nut

* For tractors with FDA 1222-2300020-05

** For tractors with FDA 1222-2300020

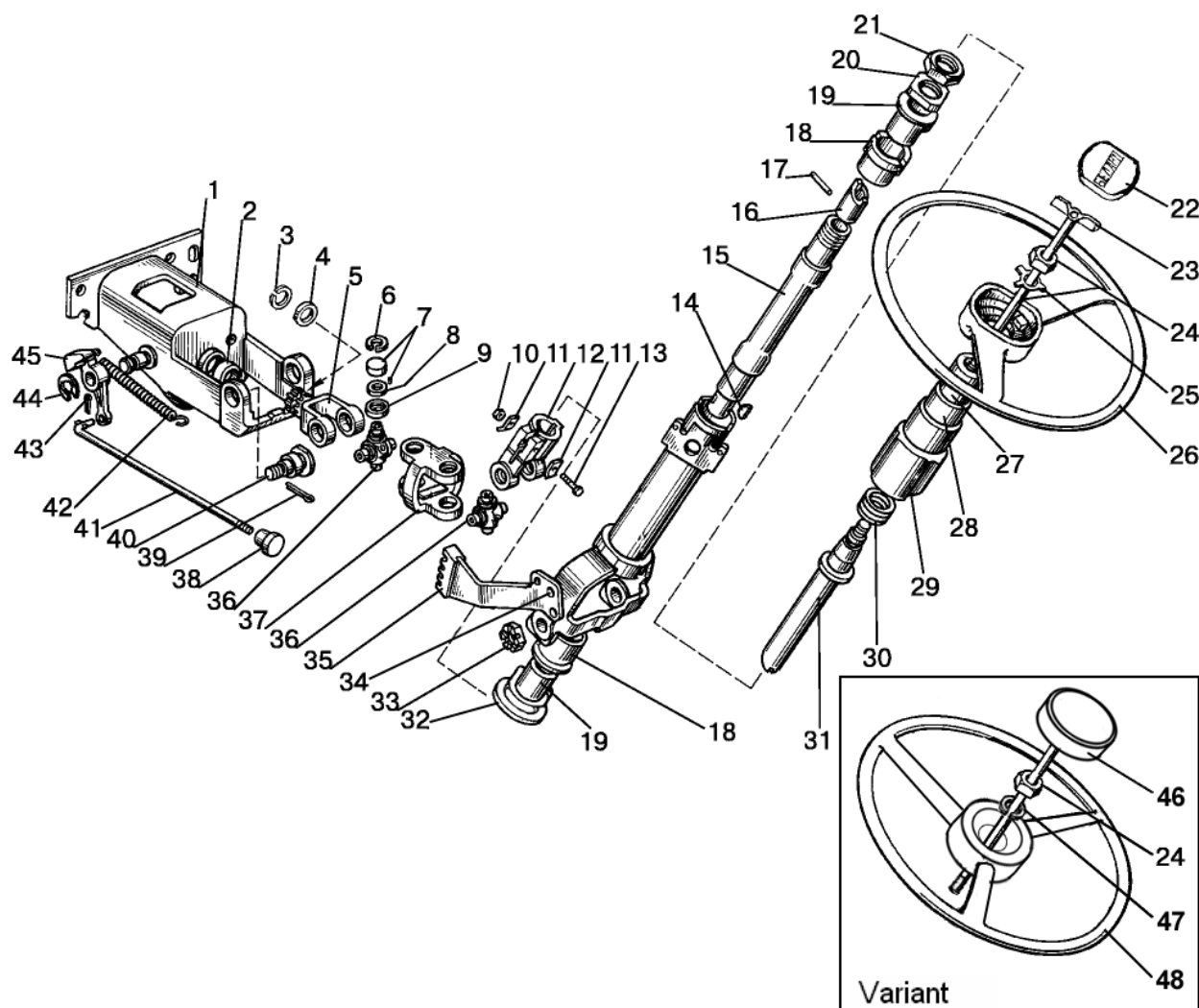


Fig. 34.1. Steering column

Subgroup 3401. Steering column

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.1		85-3401010	1	Steering column (1-21, 32-37, 39, 40, 42- 45)
		70-3401050-B	1	Shaft (15-17)
		85-3401150	1	Cardan (5-9, 12, 36, 37)
	1	85-3401120	1	Bracket
	2	85-3401016	1	Bushing
	3	C20	1	Ring
	4	80-3401019	1	Washer
	5	85-3401156-B	1	Yoke
	6	C19	8	Ring
	7	904700YC17	8	Bearing
	8	50-3401064	8	Oil-seal
	9	50-3401063	8	Cage
	10	M10	1	Nut
	11	80-3401013	2	Washer
	12	50-3401061-A	1	Yoke
	13	M10x45	1	Bolt
	14	5x10	1	Semi-circular key
	15	70-3401055	1	Intermediate shaft
	16	70-3401054-B	1	Shaft end extension
	17	ШЛК8x36	1	Pin
	18	70-3401077-B	2	Shock absorber
	19	70-3401076	2	Bushing
	20	70-3401078	1	Nut
	21	70-3401079	1	Lock nut
	22	80-3401082	1	Cover
	23	80-3401140	1	Clamp
	24	M16x1,5	1	Nut
	25	50-3401091	1	Washer
	26	80-3402015	1	Steering wheel
	27	80-3709025	1	Bushing
	28	80-3709026 -Б	1	Bushing
	29	80-3709024	1	Case
	30	50-4608057	1	Spring
	31	85-3401175	1	Shaft
	32	600-3401012	1	Washer
	33	70-3003032	2	Nut
	34	8x28	2	Non-threaded fastener
	35	600-3401160	1	Quadrant
	36	50-3401062	2	Cross bar
	37	85-3401067	1	Yoke
	38	70-3709012-A	1	Handle
	39	4x25	2	Forelock
	40	85-3401011	2	Screw
	41	85-3401001	1	Rod
	42	50-1310158-B	1	Spring
	43	1,6x12	1	Forelock
	44	C18	1	Ring
	45	85-3401014	1	Detent
46	38RPN-02.00.00/B or 822-3401140-A1	1	Clamp	
47	ШП 16	1	Washer	
48	38RPN-01.00.00 or 70-3402015-A	1	Steering wheel	

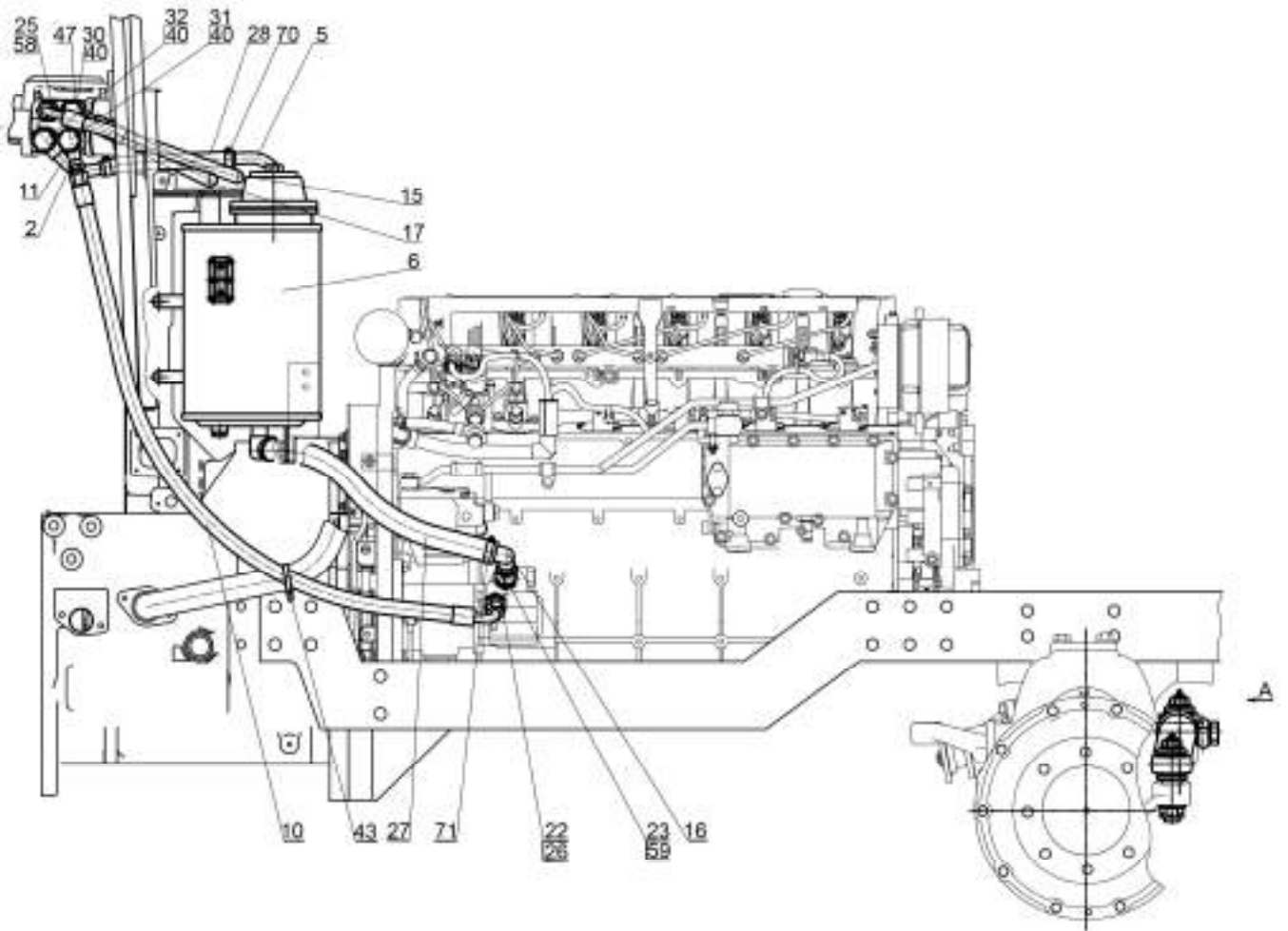


Fig. 34.2 Hydrostatic steering control

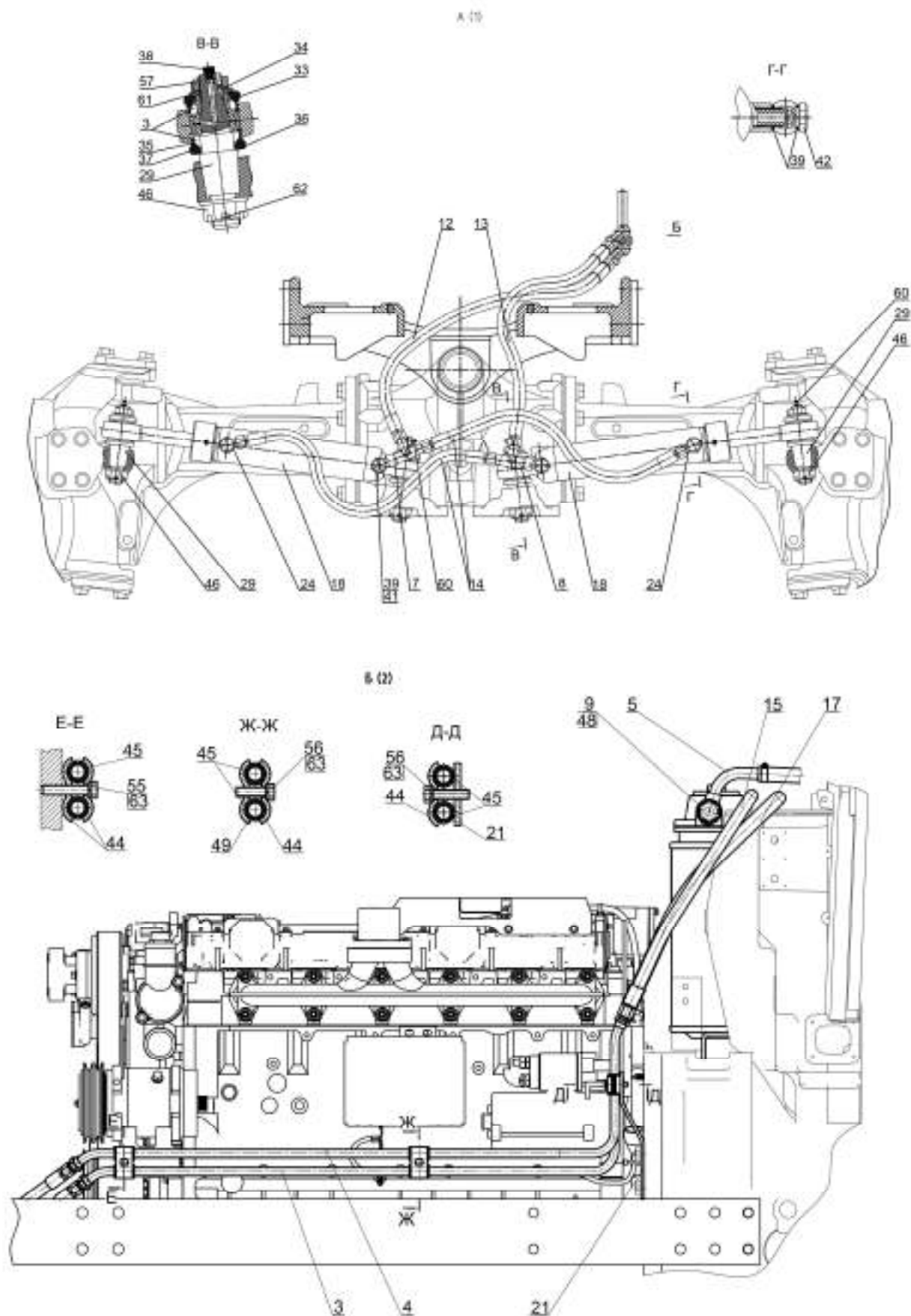


Fig. 34.2a Hydrostatic steering control

Group 34. Steering control

Subgroup 3407. Hydrostatic steering control

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

Group 34. Steering control

Subgroup 3407. Hydrostatic steering control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.2 34.2a	55	M8-6gx40.88.35.019	1	Bolt GOST 7795-70
	56	M8-6gx30.88.35.019	2	Bolt GOST 7796-70
	57	M20x1,5-6H.04.019	4	Nut 15522-70
	58	025-029-25-2-2	1	Ring GOST 18829-73/GOST 9833-73
	59	028-032-25-2-2	1	Ring GOST 18829-73/GOST 9833-73
	60	1.1.Ц9.xp	4	Oiler GOST 19853-74
	61	C 20.01.019	4	Washer GOST 11371-78
	62	4x36.019	4	Forelock GOST 397-79
	63	8T	3	Washer OST 37.001.115-75
	70		2	Clamp «NORMA»TORRO 20-32/9-C6W
	71		2	Clamp «NORMA»TORRO 25-40/9-C6W

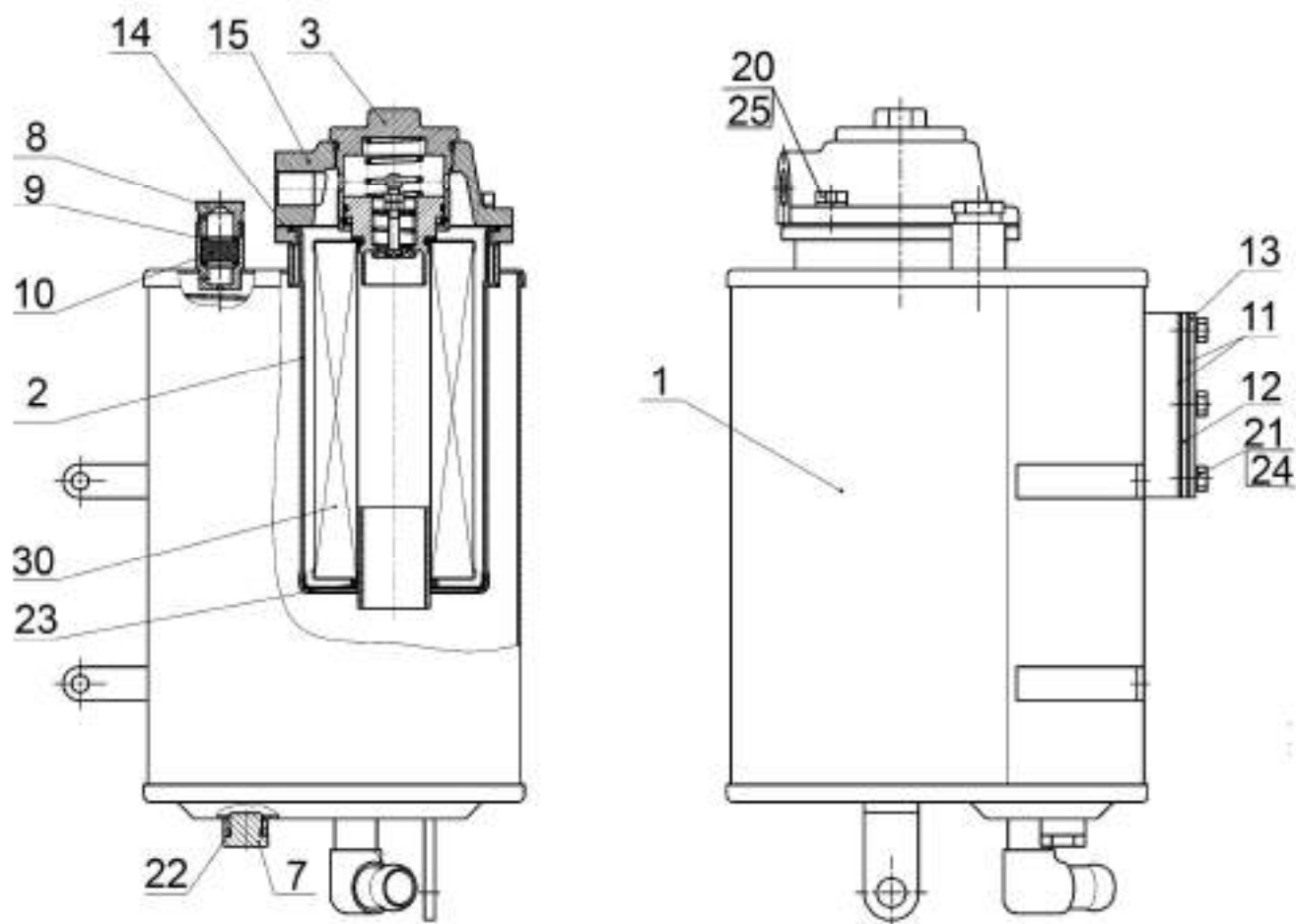


Fig. 34.3 Tank

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

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

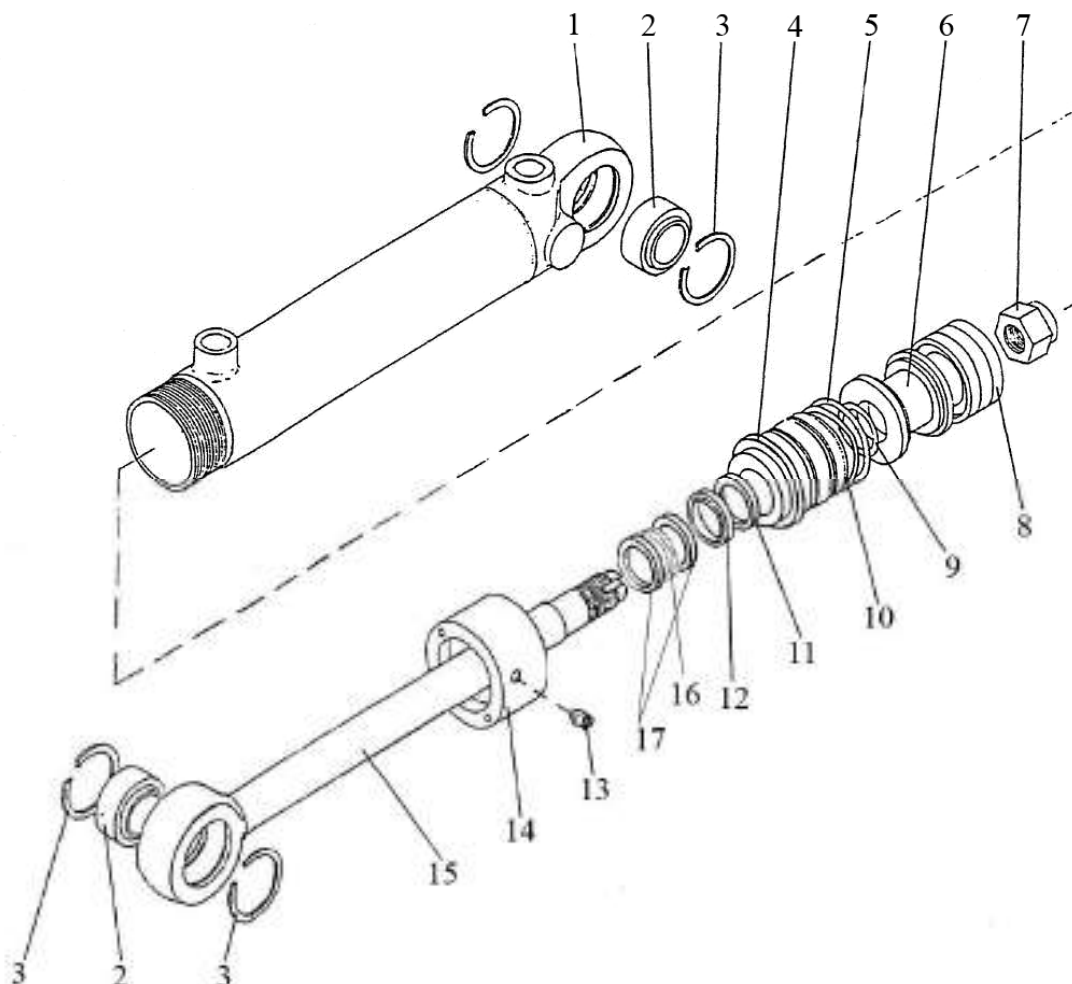


Fig. 34.4 Hydraulic cylinder 50x25-200

Subgroup 3405. Hydraulic cylinder 50x25-200

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
34.4		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)

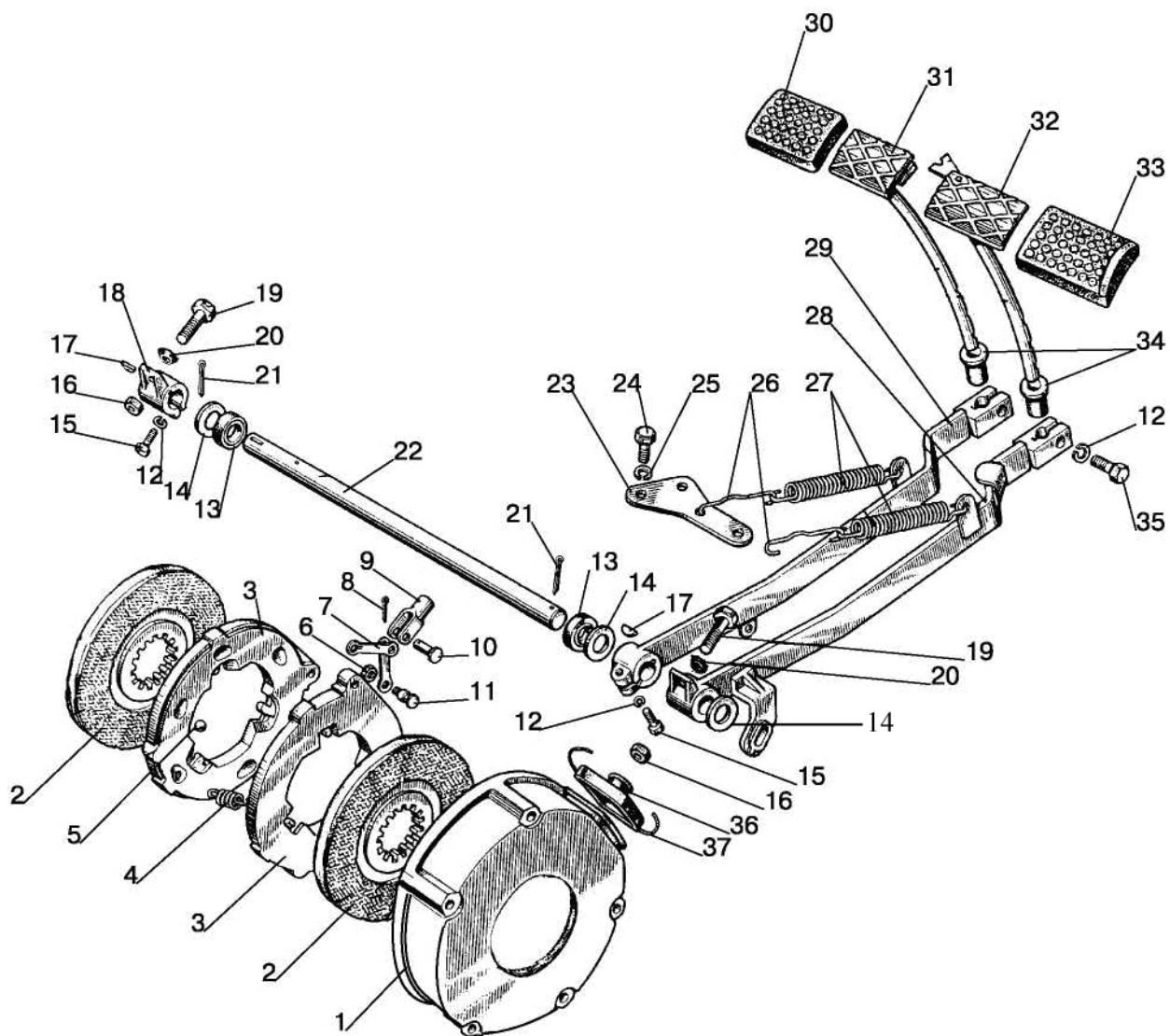


Fig. 35.1. Brakes. Brakes control

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

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

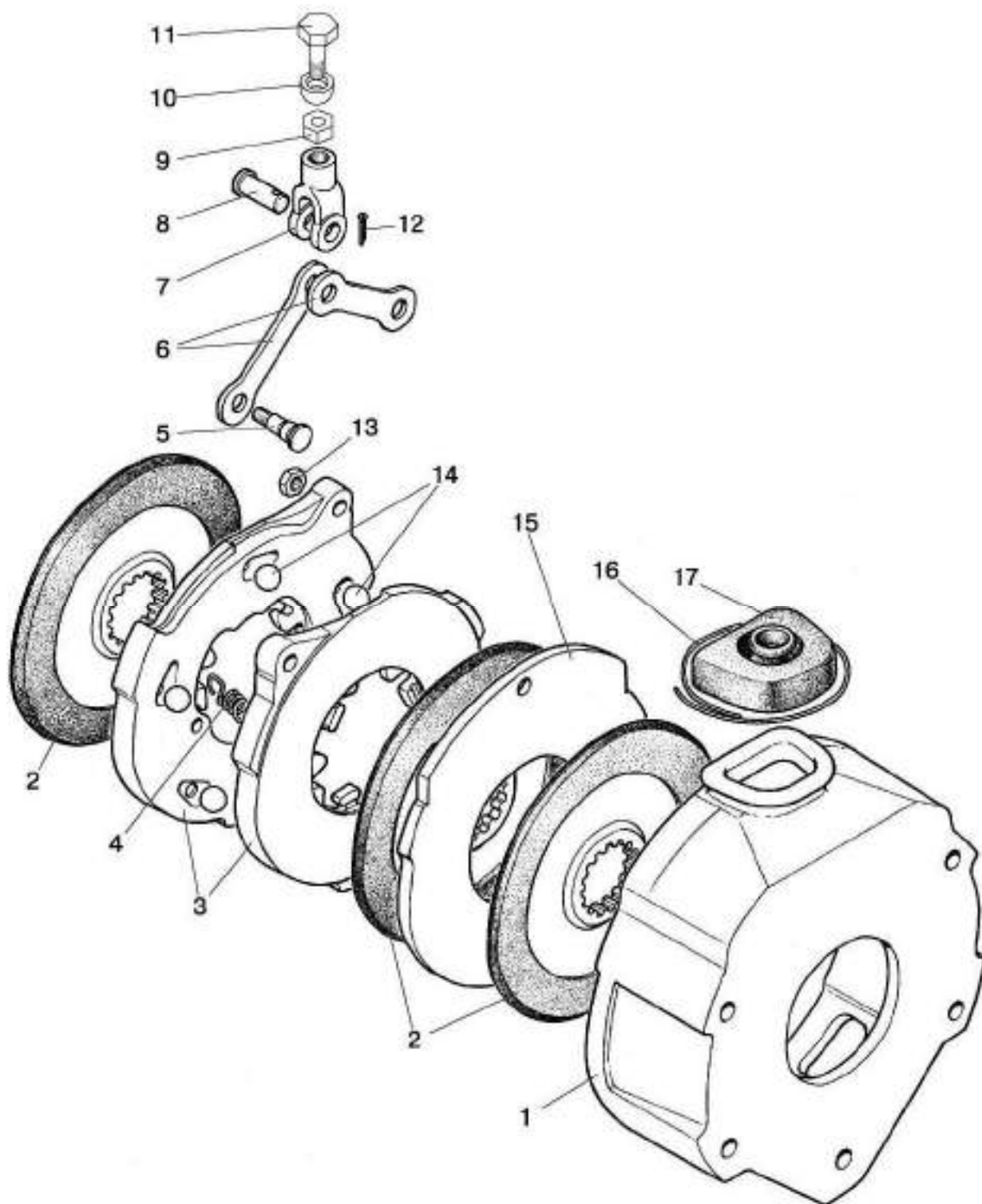


Fig. 35.2. Brakes (version)

Group 35. Brakes
Subgroup 3502. Brakes (version)

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

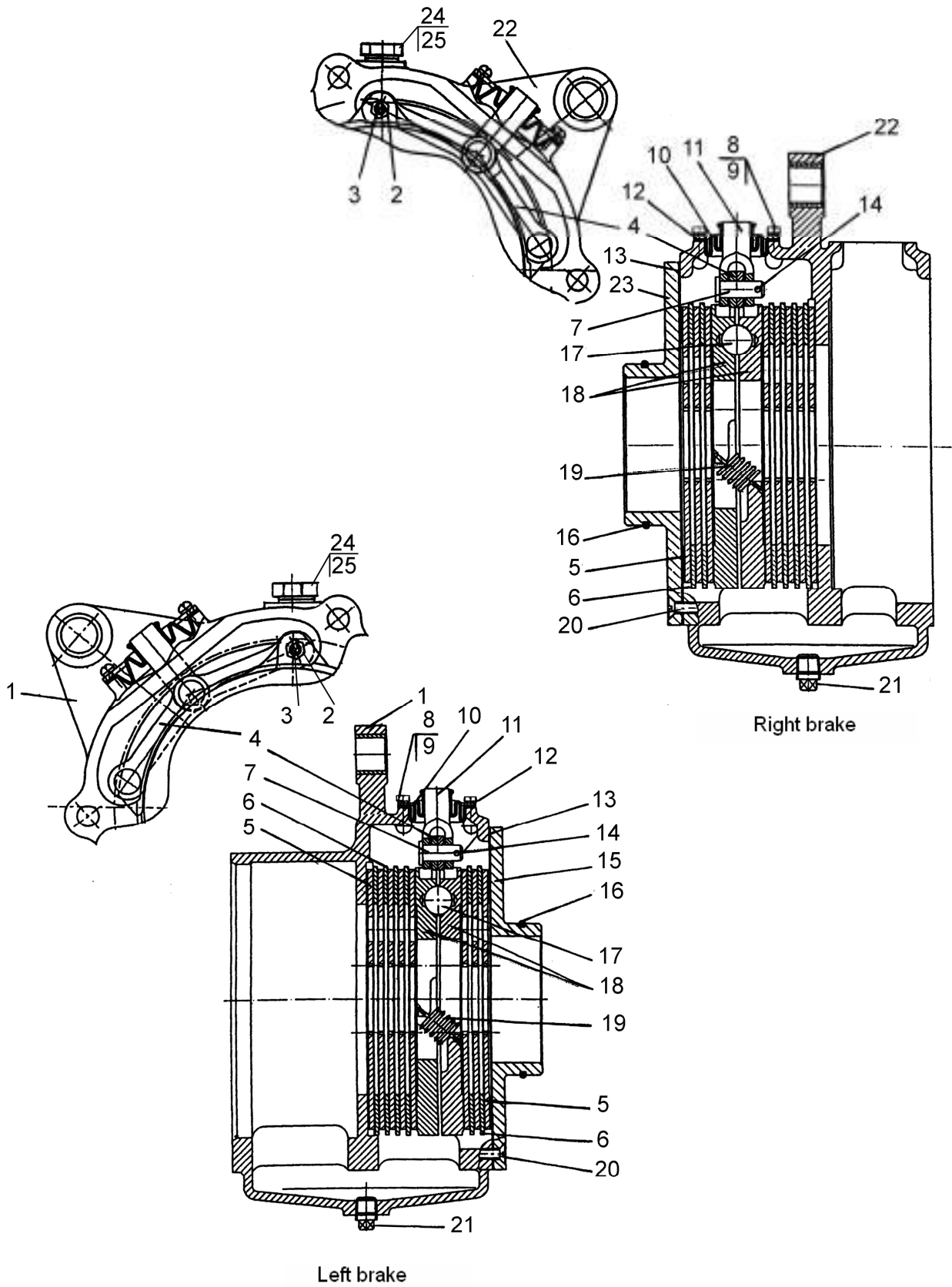


Fig. 35.3. Wet brakes

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

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

* Selected during the installation for required gap.

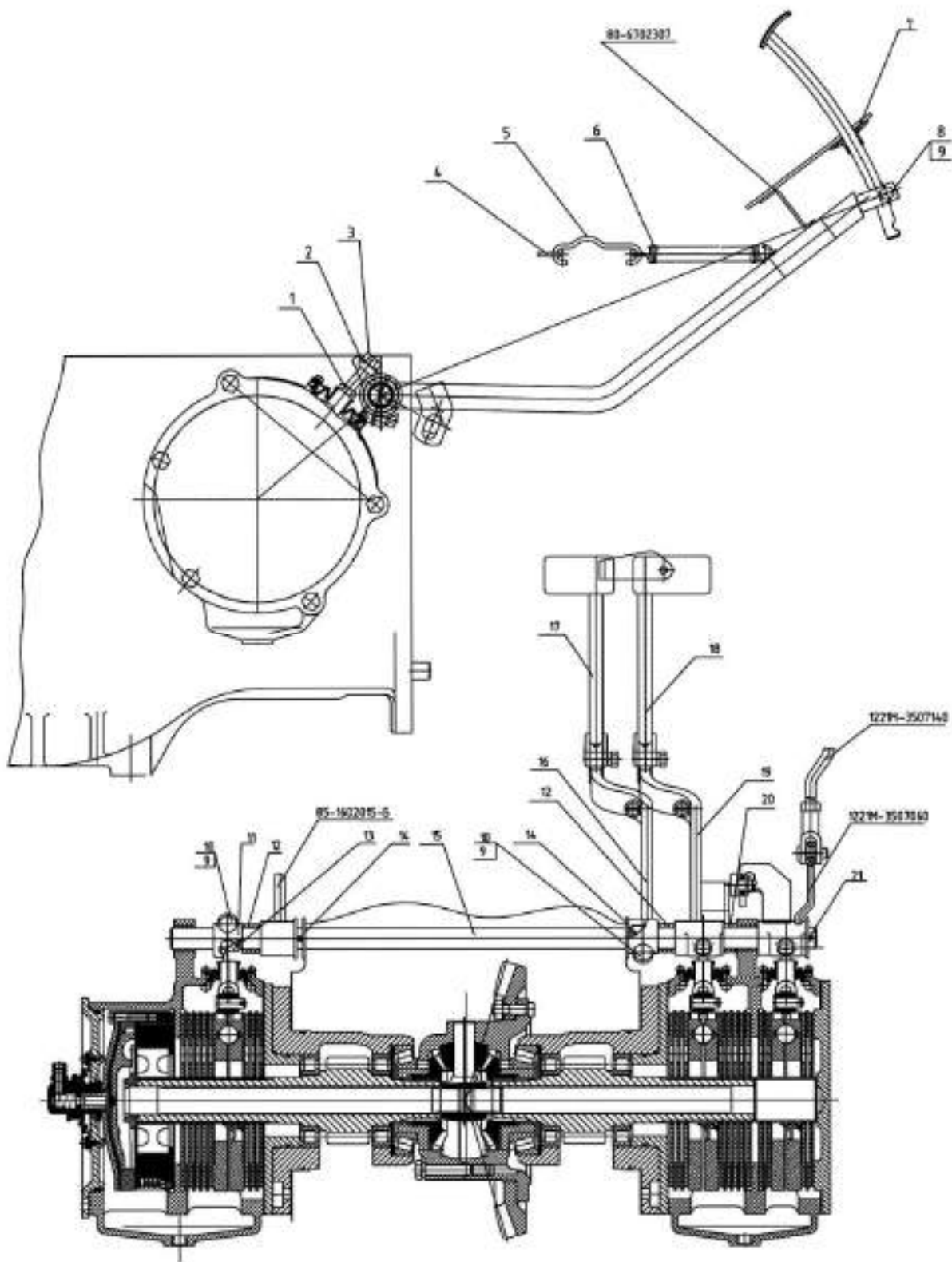


Fig. 35.4. Wet brakes control

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

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

* For reversal brakes control

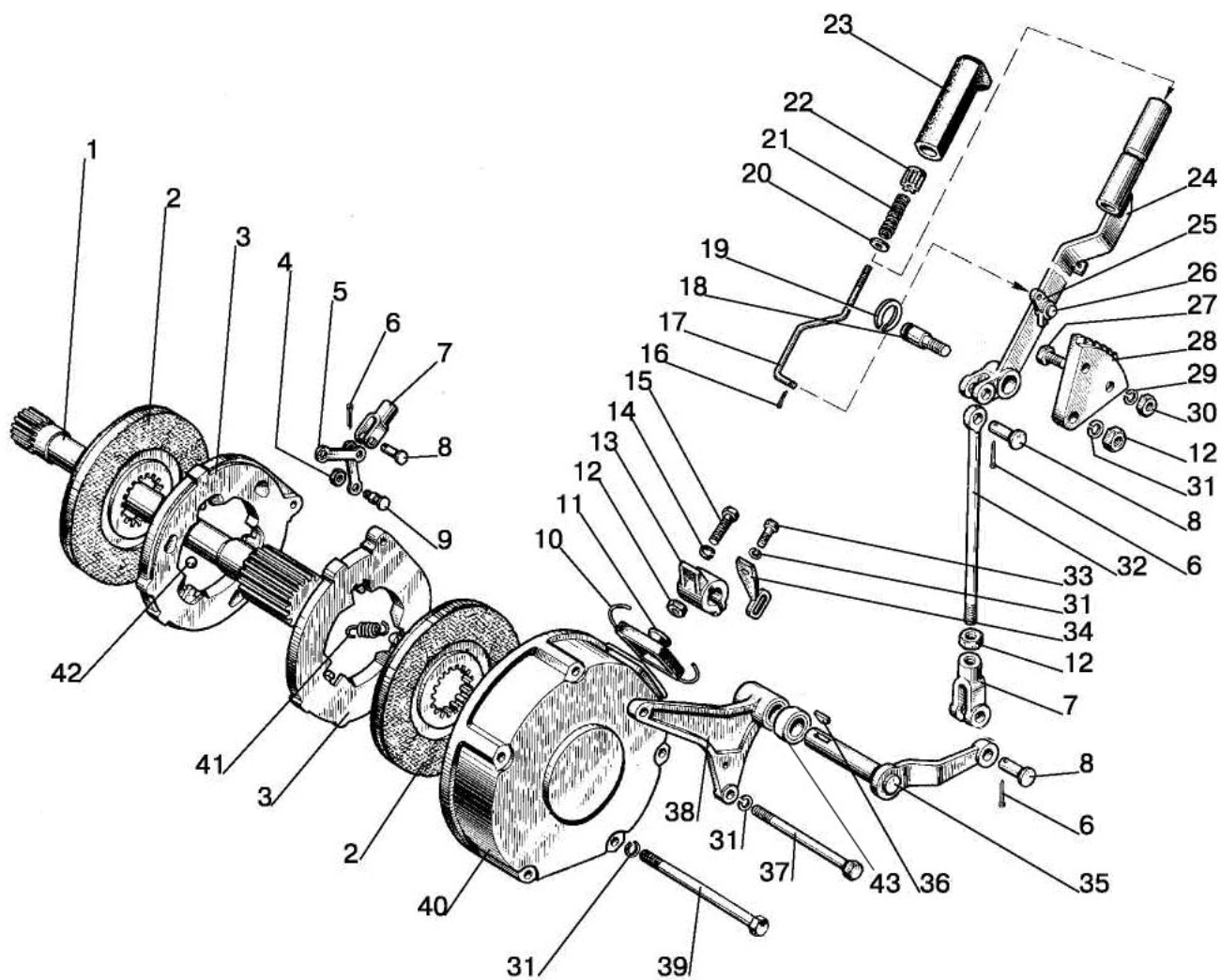


Fig. 35.5. Parking and emergency brake. Parking and emergency brake control

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

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

* During the installation of double-disk brakes.

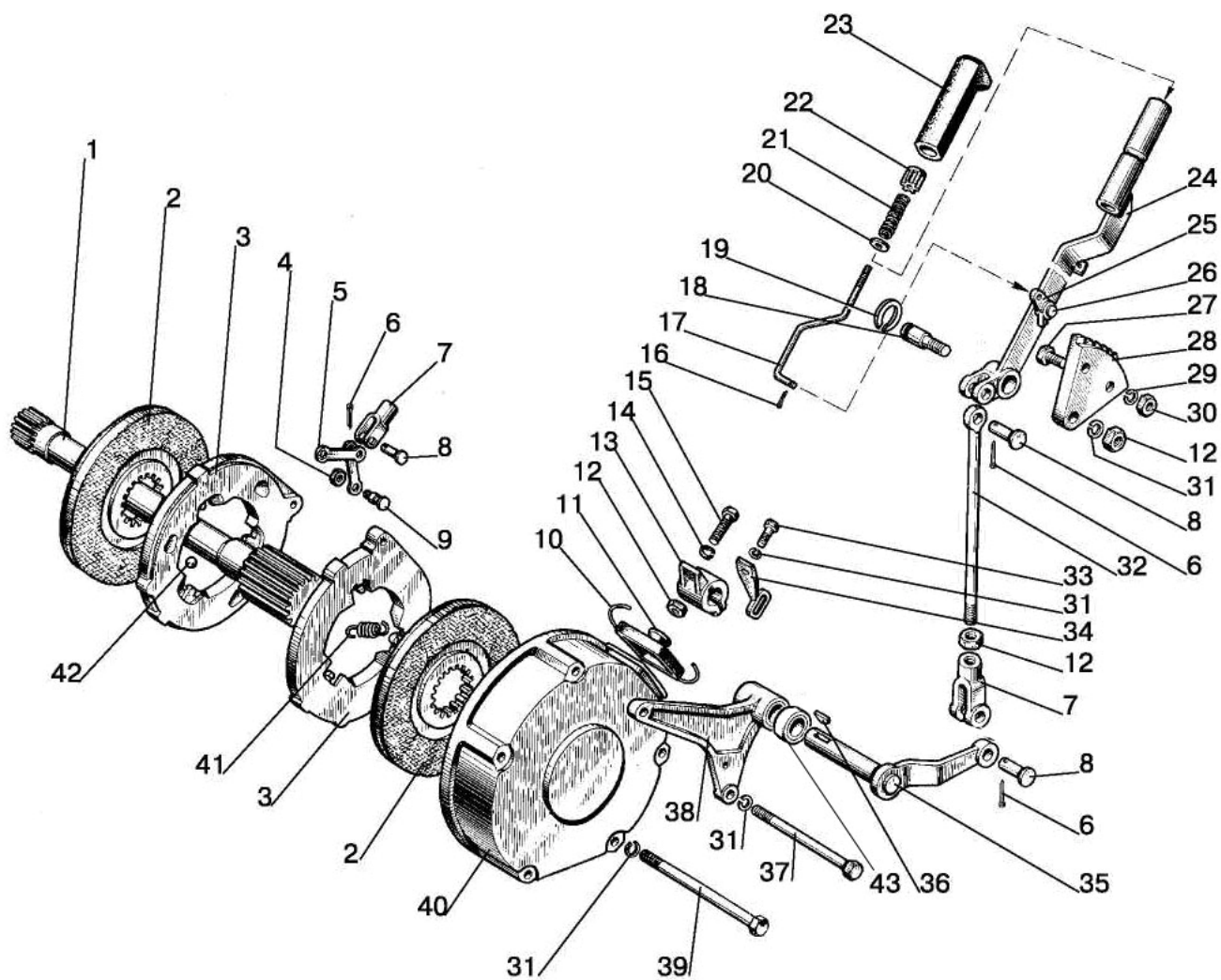


Fig. 35.5. Parking and emergency brake. Parking and emergency brake control

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

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

* During the installation of double-disk brakes.

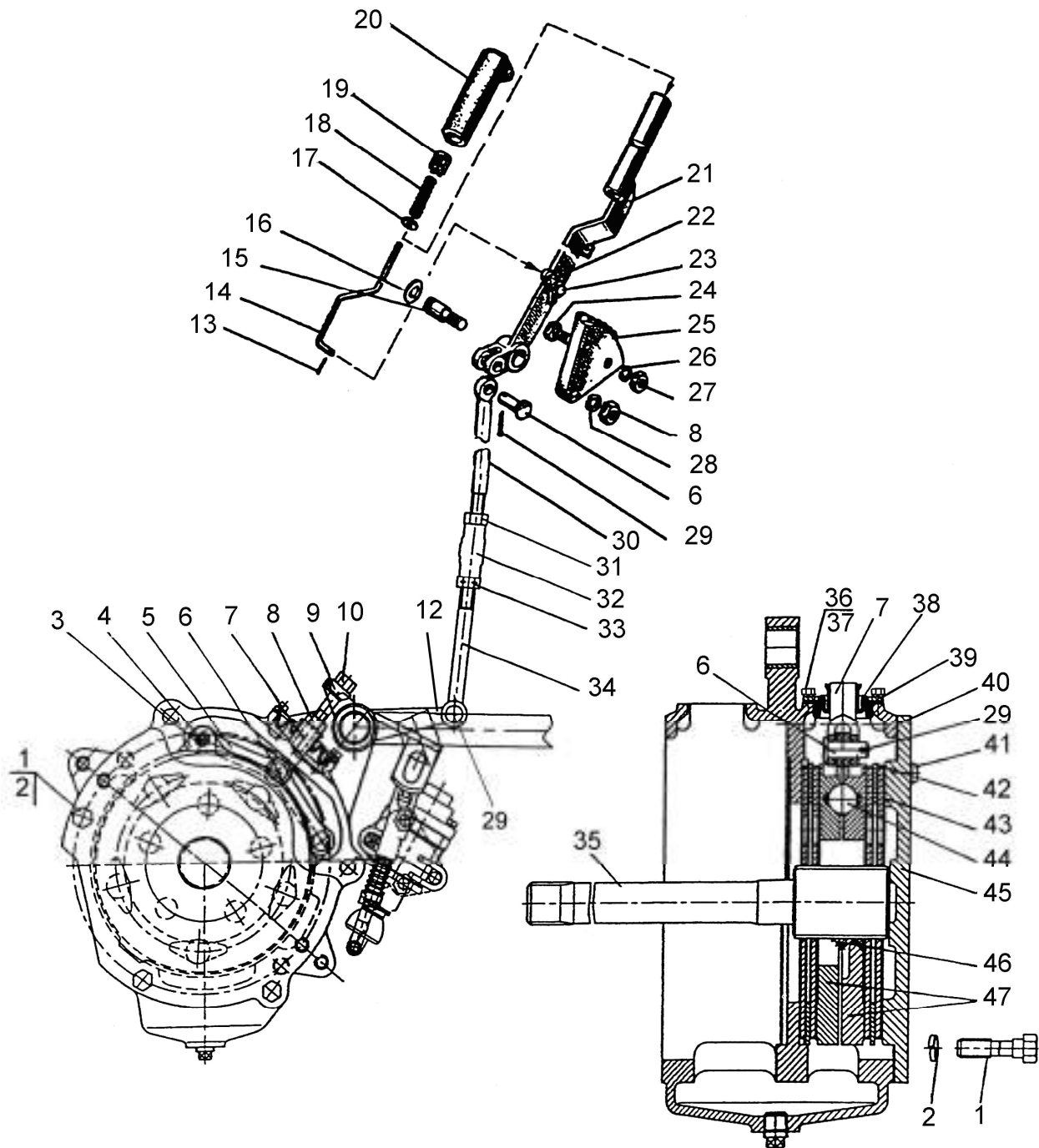


Fig. 35.6. Parking and emergency brake. Parking and emergency brake control (for wet brakes)

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

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

Selected during the installation for required gap

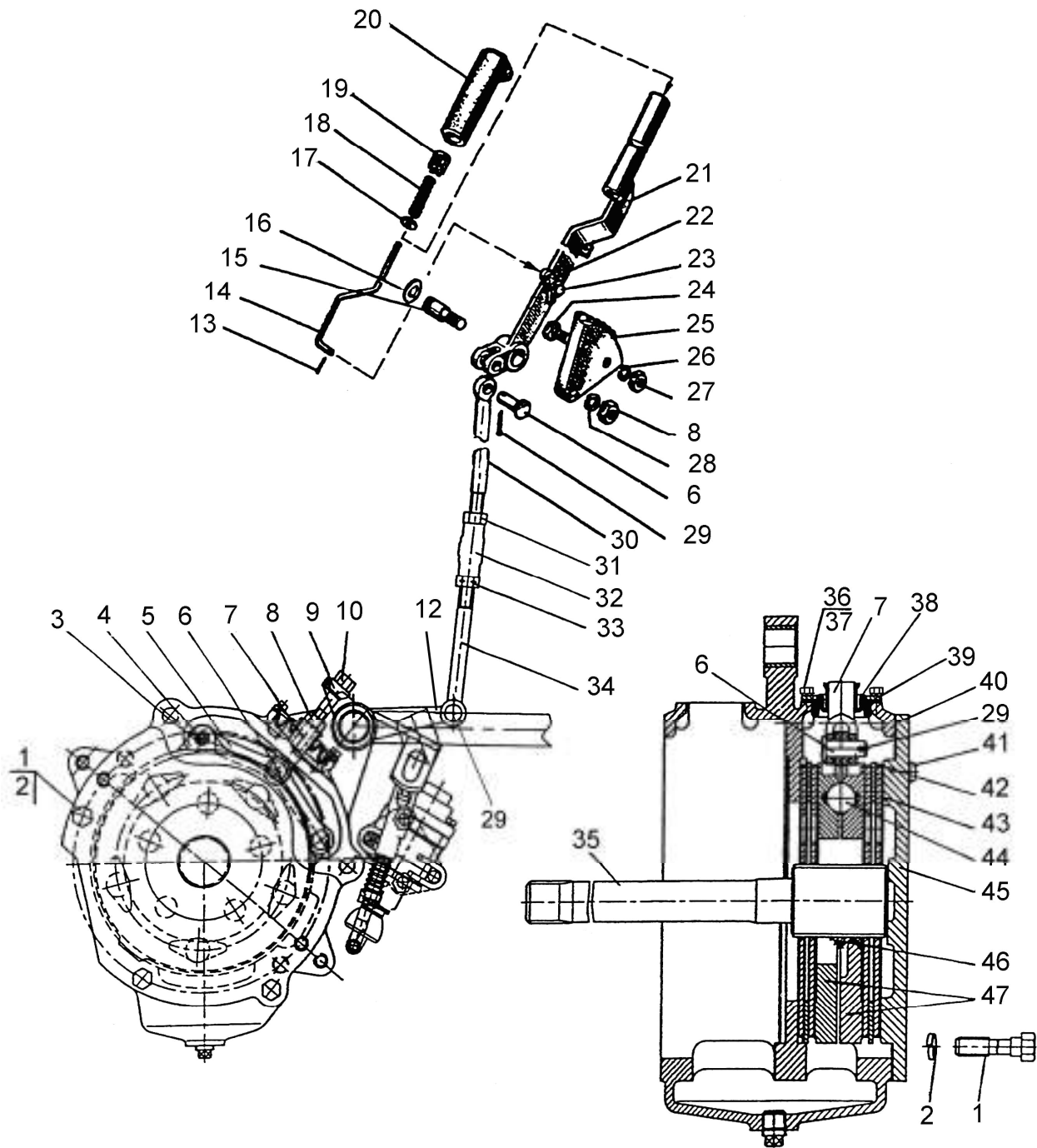


Fig. 35.6. Parking and emergency brake. Parking and emergency brake control (for wet brakes)

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

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

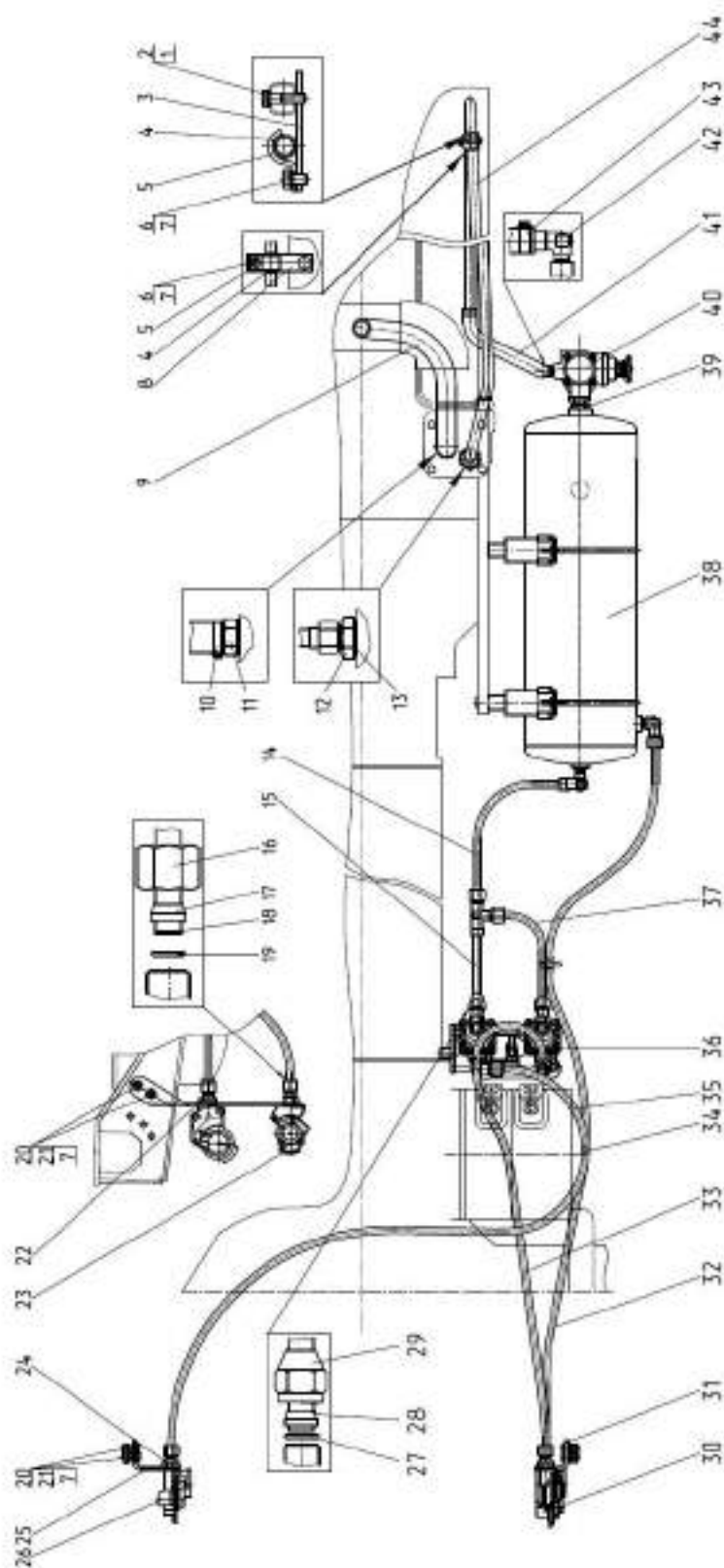


Fig. 35.7 Pipelines and fittings of trailer brakes air drive

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
35.7	1	M8-6gx35.88.35.019	1	Bolt GOST 7796-70
	2	8T OST 37.001.115-75	1	Washer
	3	85-3407107	1	Plate
	4	70-3506027	2	Bushing
	5	102-3407014	2	Joke
	6	M10-6gx16.88.35.019	2	Bolt GOST 7796-70
	7	10 OT OST 37.001.115-75	6	Washer
	8	1221M-3506012	1	Plate
	9	1221M-3506016	1	Hose
	10	25-40	2	Clamp with worm thread
	11	2022Д-3506030	1	Union body
	12	2022Д-3506022	1	Union body
	13	80-1702098	2	Washer
	14	1025-3506560	1	Pipe line
	15	1025-3506540	1	Pipe line
	16	1522-3506023	10	Captive nut
	17	1522-3506024	10	Coupling
	18	1522-3506022	10	Nipple
	19	012-015-19-2-4 GOST	10	Ring GOST 18829-73/GOST 9833-73
	20	M10-6gx25.88.35.019	4	Bolt GOST 7796-70
	21	M10-6H.6.019	4	Nut GOST 5915-70
	22	1522-3521012	1	Union body
	23	64226-3521110	1	Coupling head
	24	1522-3521513	2	Union body
	25	1025-3521512	1	Bracket
	26	64226-3521111	1	Coupling head
	27	014-017-19-2-4	1	Ring GOST 18829-73/GOST 9833-73
	28	70-3506028	1	Coupling
	29	70-3506023	1	Captive nut
	30	A29.76.000	1	Coupling head
	31	1221M-3521711	1	Bracket
	32	1522-3506520	1	Pipe line
	33	1522M-3506050	1	Pipe line
	34	80-3723045	2	Collar
	35	1025-3506560-02	1	Pipe line
	36	1221M-3514705	1	Break valve
	37	1221M-3506020	1	Pipe line
	38	1221M-3513705	1	Ballon
	39	80-3512006	1	Lock nut
	40	A29.51.000 Б	1	Pressure regulator
	41	1221M-3506014	1	Hose
	42	2022Д-3506015	1	Elbow
	43	16-27	2	Clamp with worm thread
	44	1221M-3506010	1	Pipe line

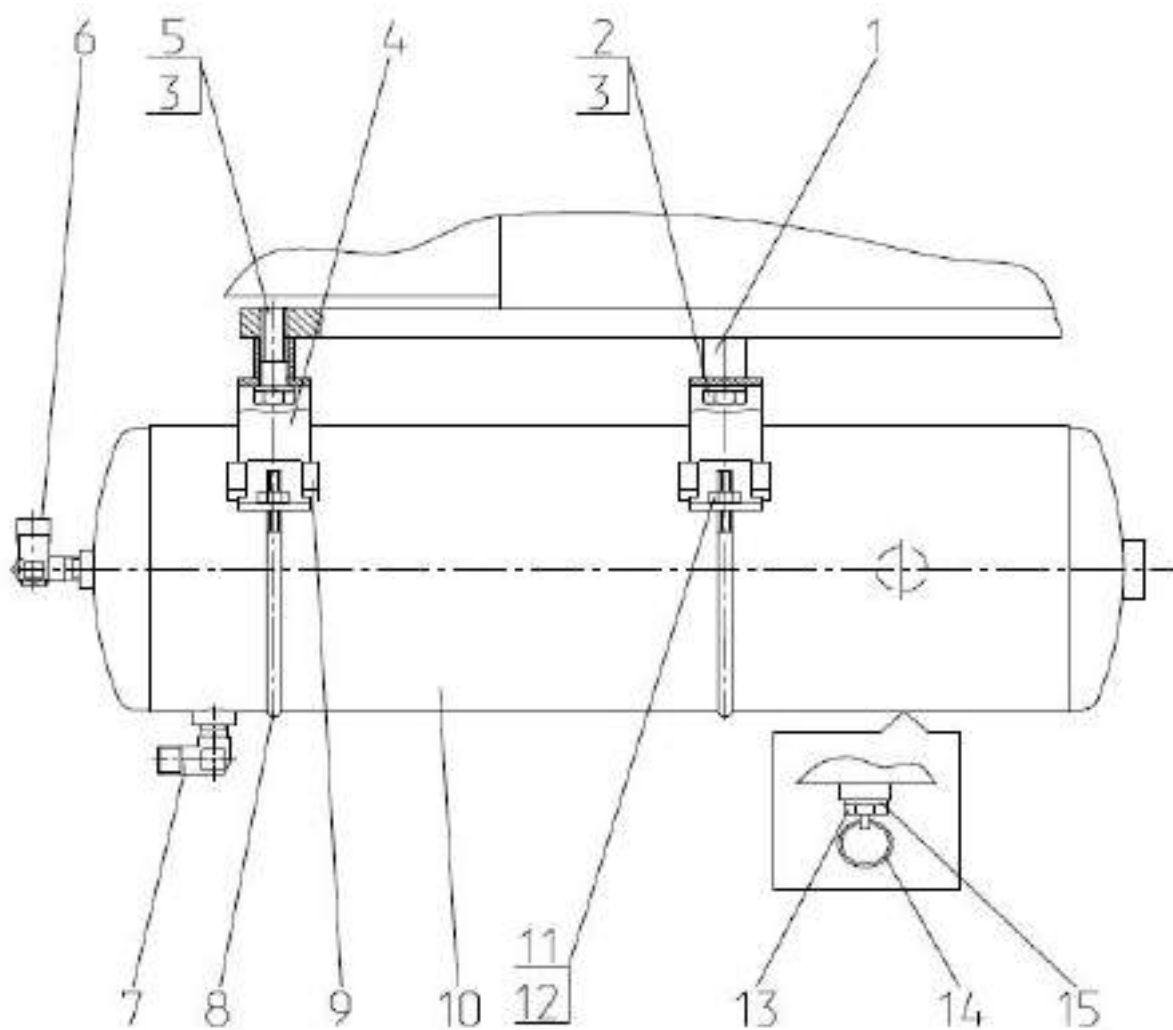


Fig. 35.8. Ballon

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

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

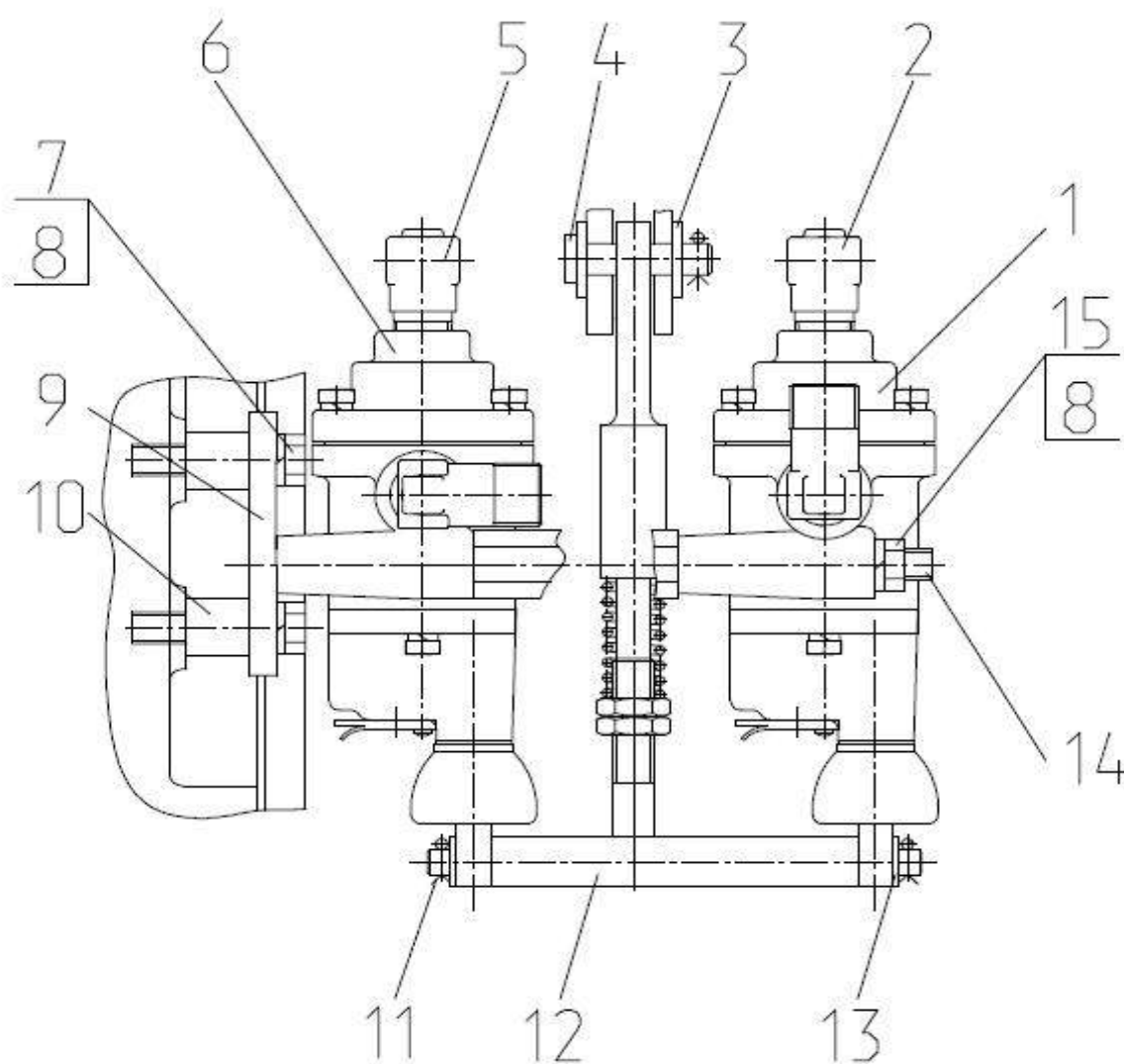


Fig. 35.9 Break valve

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

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

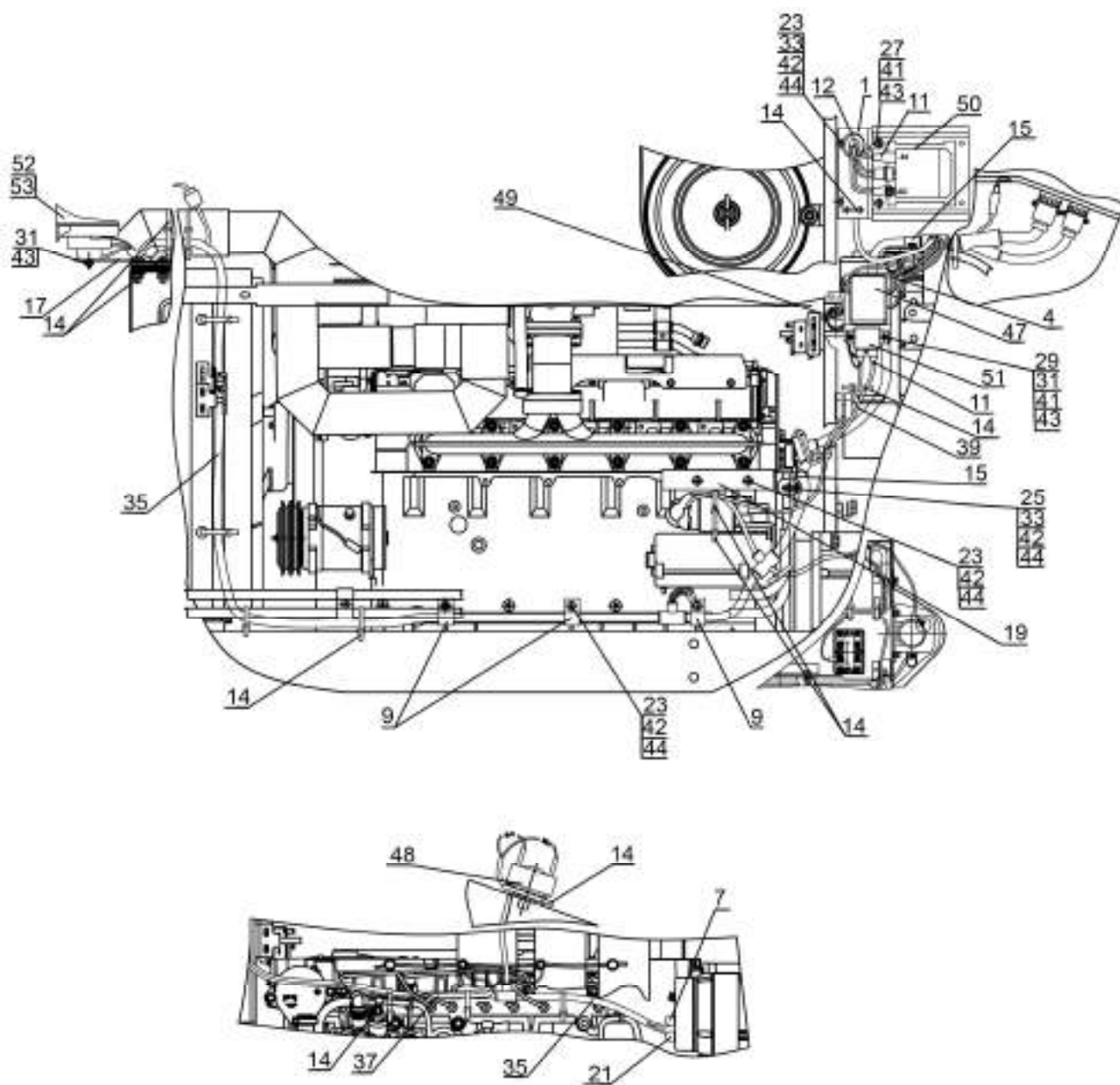


Fig. 37.1 Electrical equipment of engine

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

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

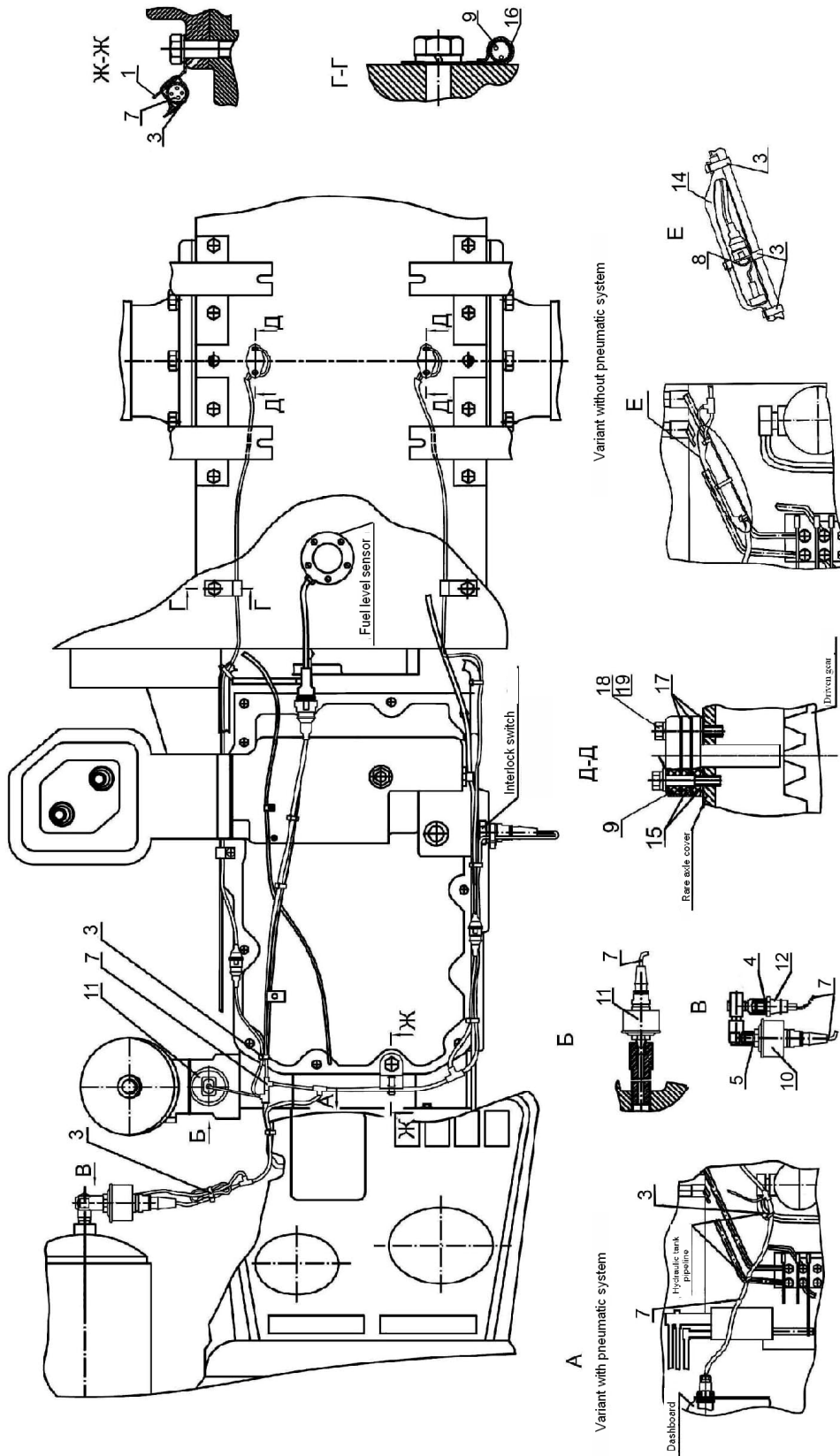


Fig. 37.2 Electrical equipment of transmission

Note to Fig. 37.1

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

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

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

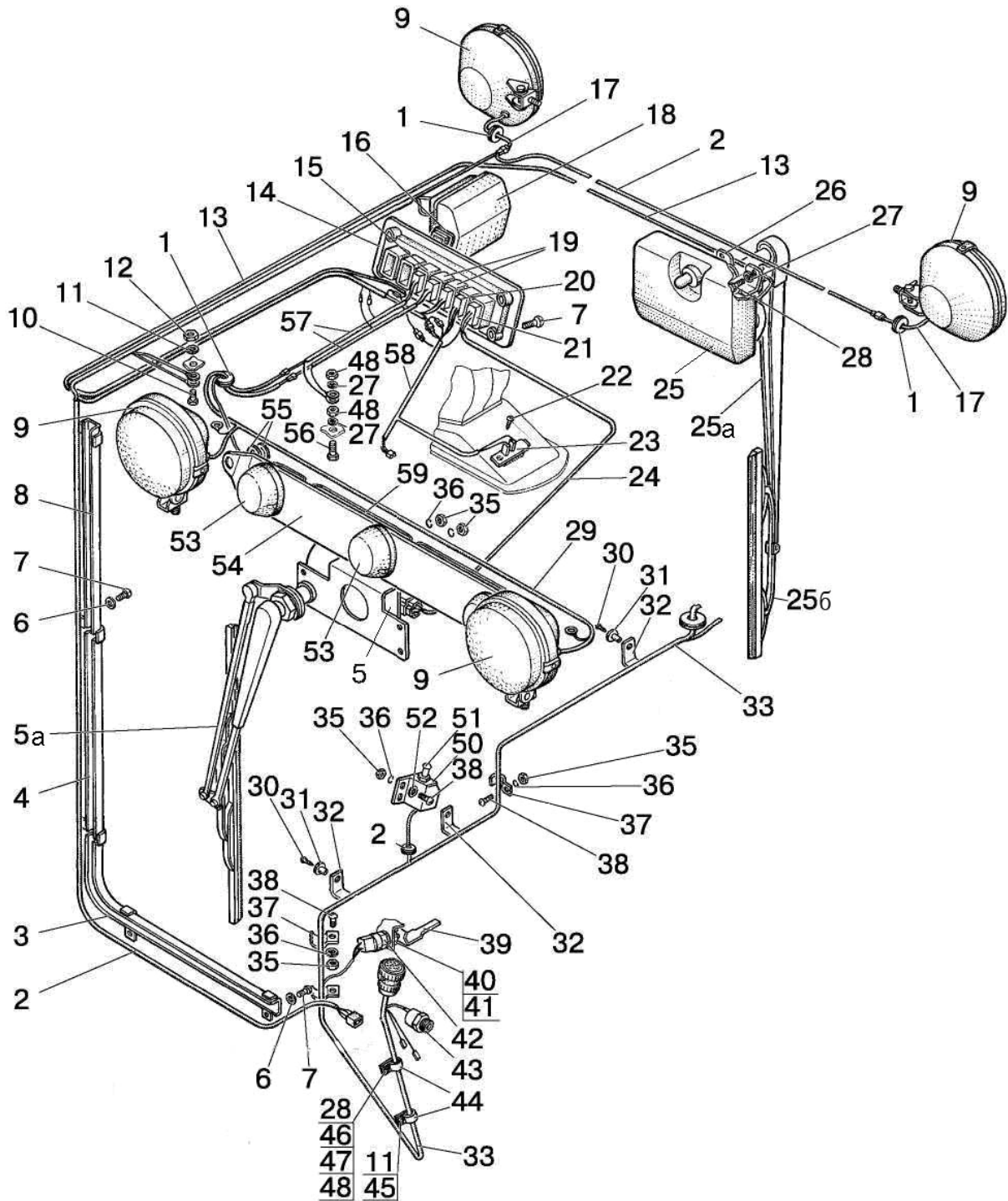


Fig. 37.3. Cabin electrical equipment

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

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

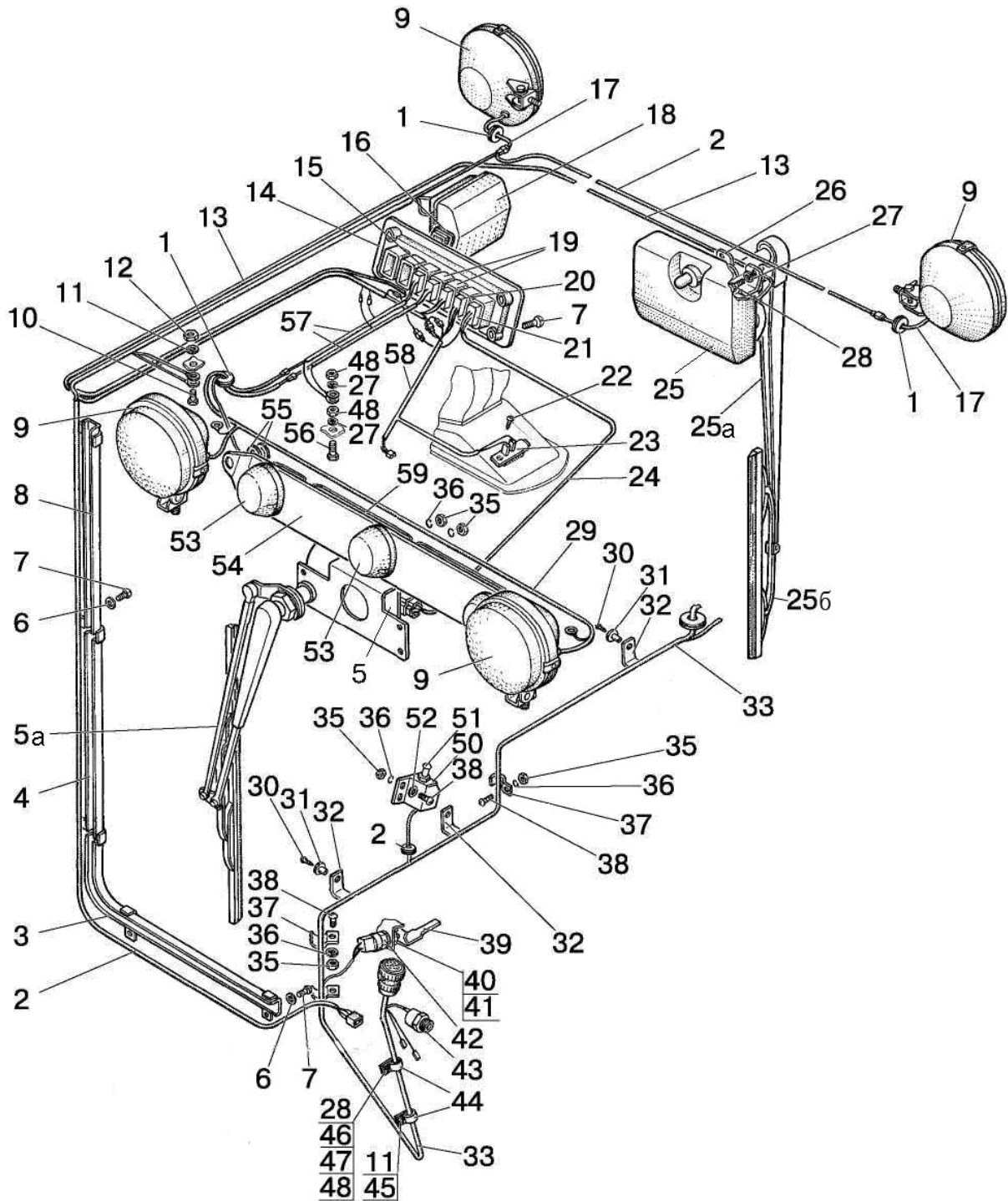


Fig. 37.3. Cabin electrical equipment

Group 37. Electrical equipment
Subgroup 3700. Cabin electrical equipment

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

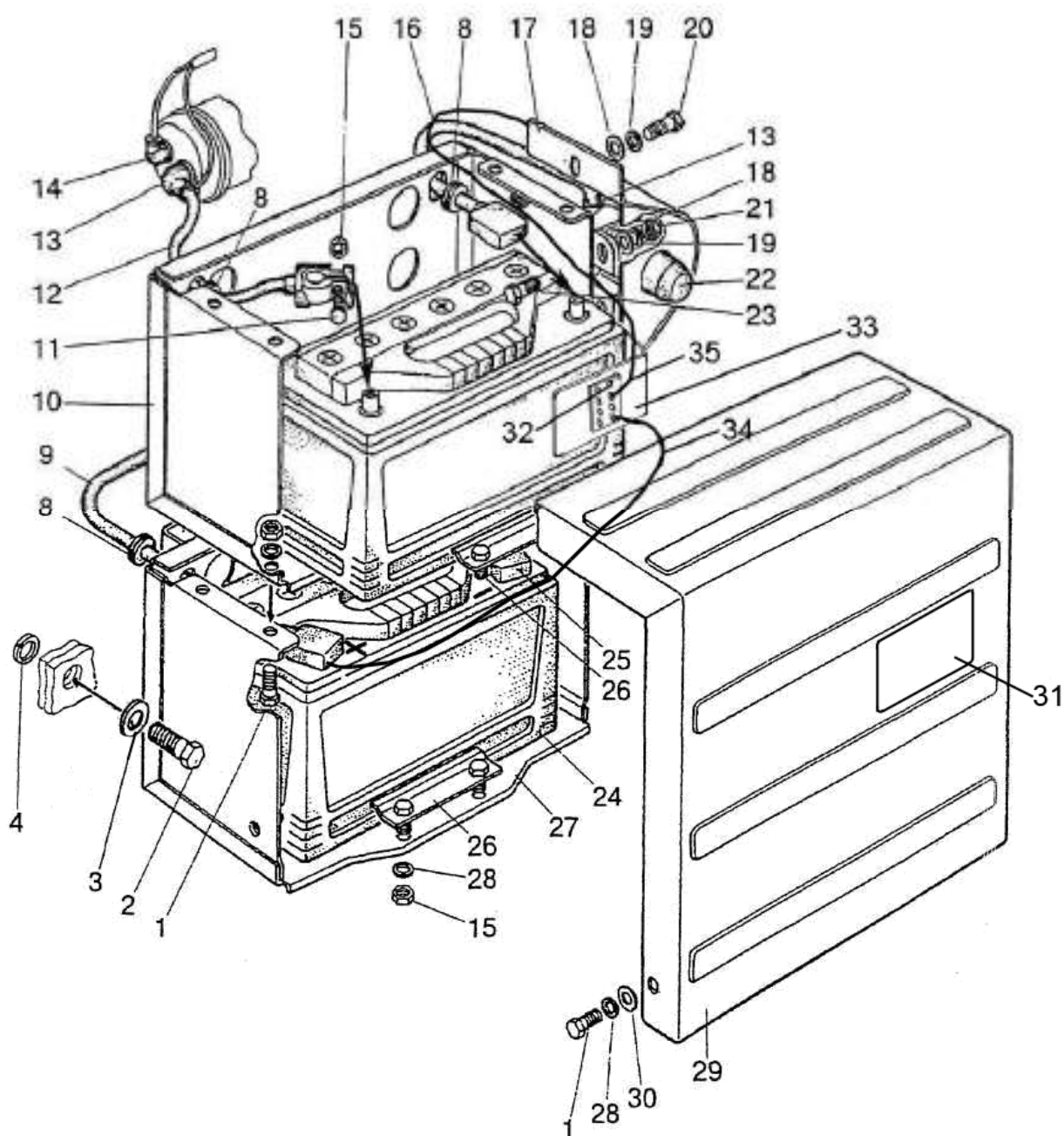


Fig. 37.4 Storage battery installation

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

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

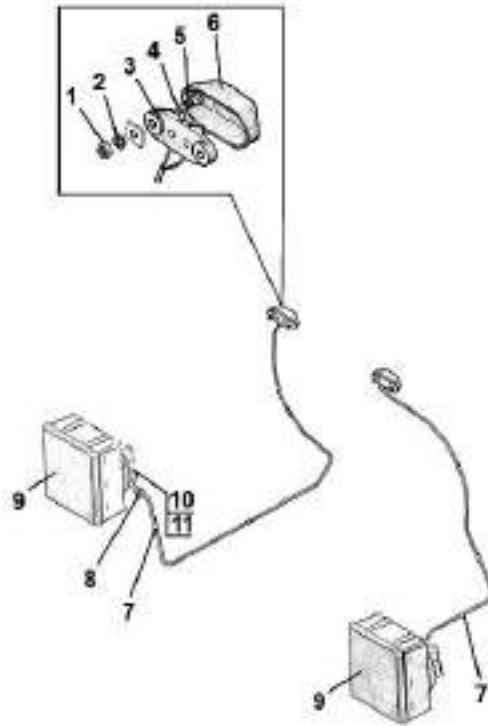


Fig. 37.5. Head lamps installation

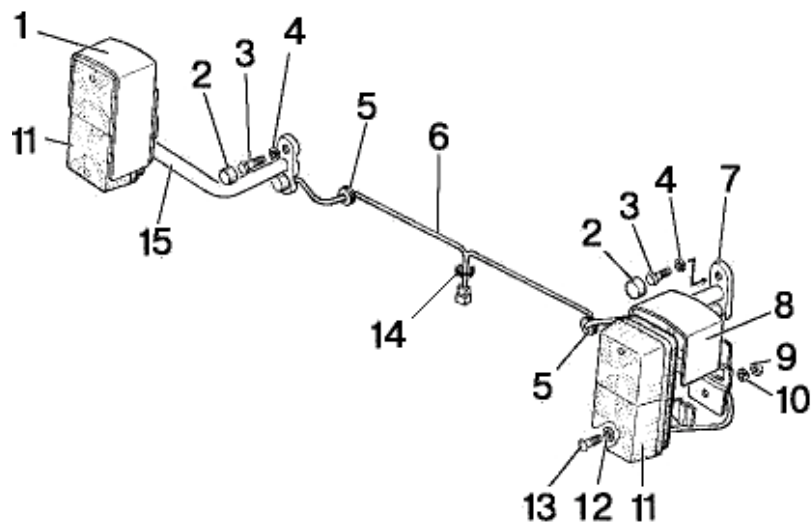


Fig. 37.6. Front lights installation

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

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

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

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

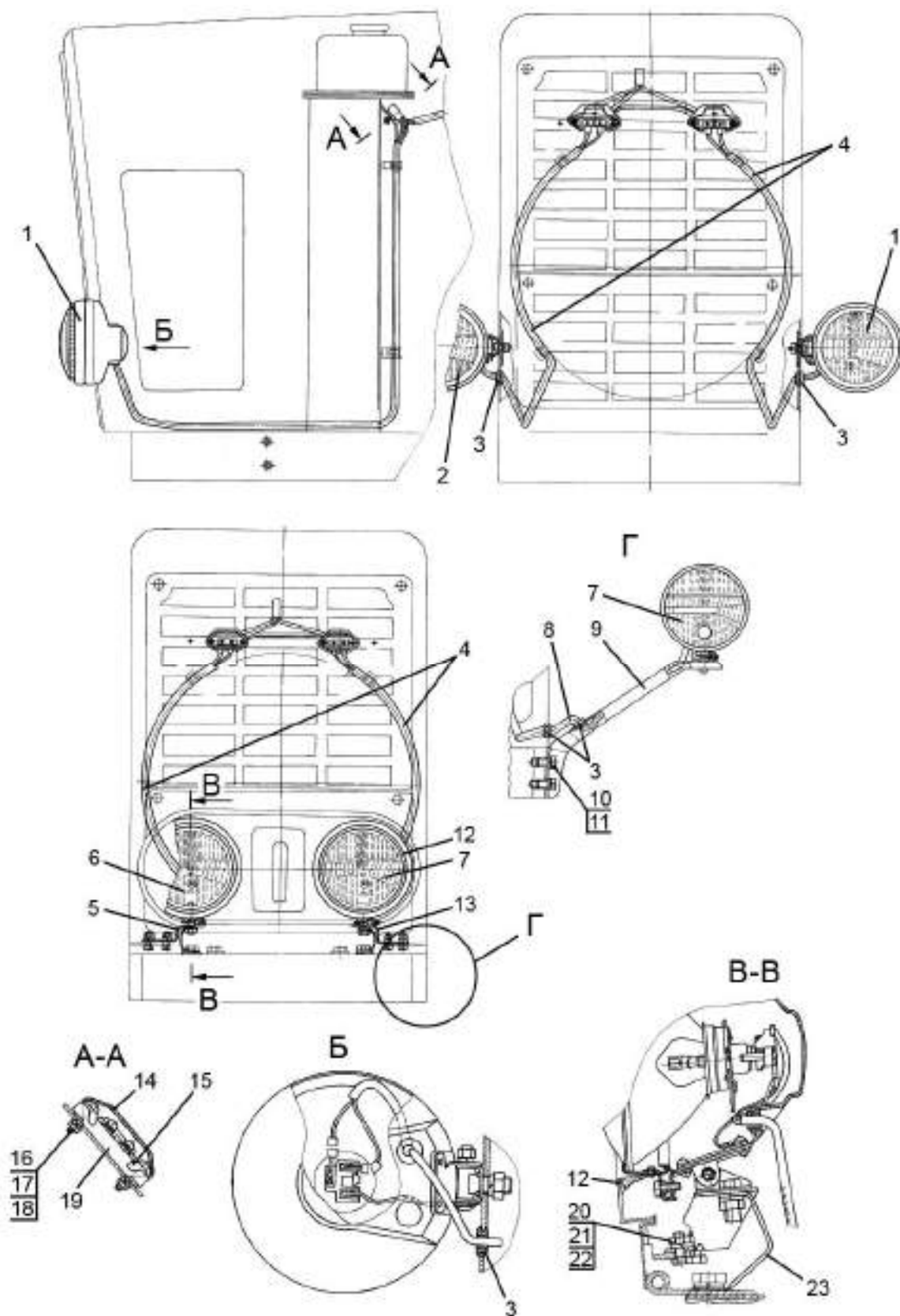


Fig. 37.7 Head lamps installation

Note to Fig. 37.7

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

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

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

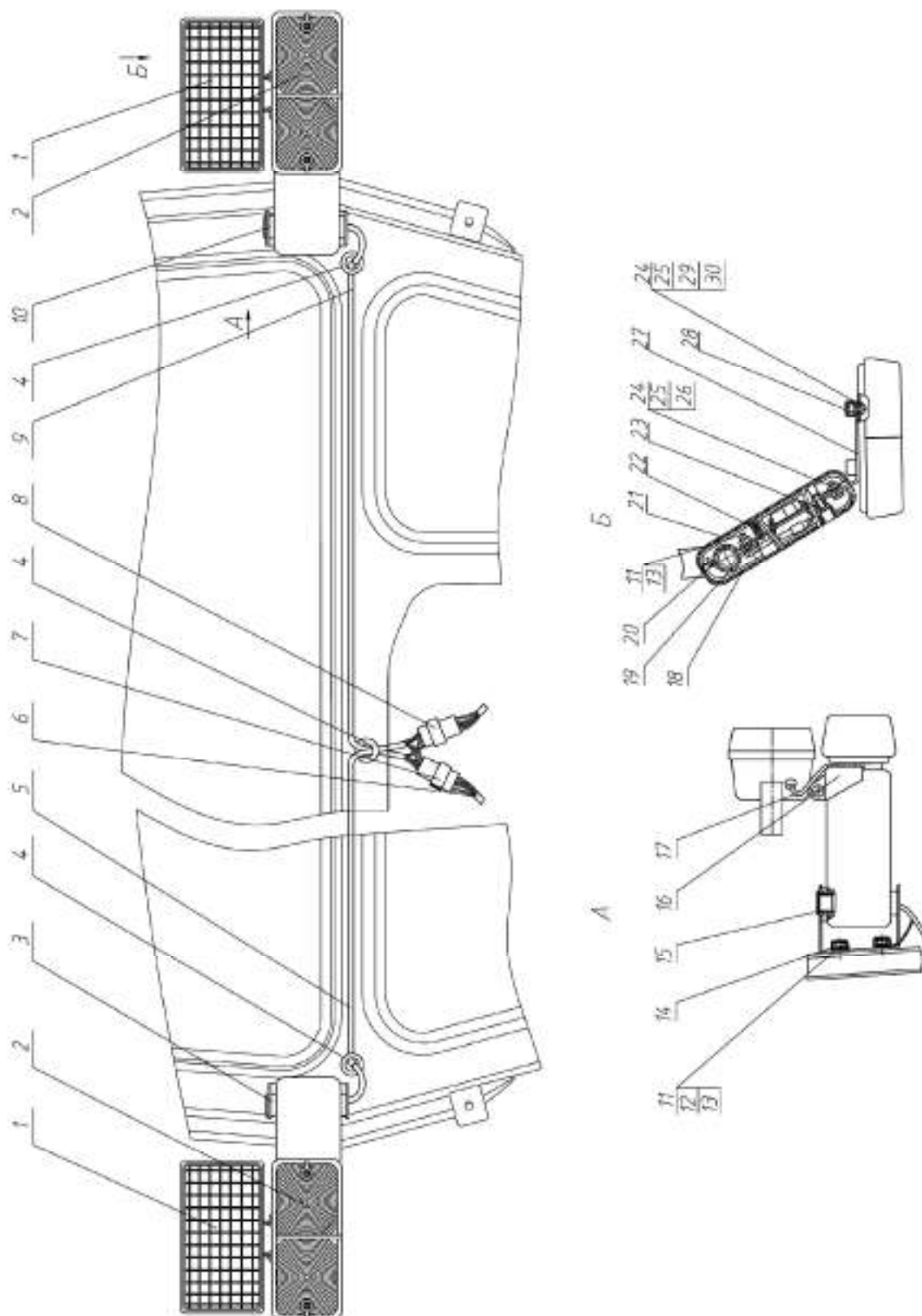


Fig. 37.8. Front lights and head lamps installation

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.8		82П-370025-02 * 82П-370025-03 **		Front lights installation
	1	8724.304/011 **	2	Working light
	2	3712.10	2	Front light with side repeater
	3	925-3712025-01	1	Bracket
	4	70-3723042-02	3	Bushing
	5	920-3724132-A	1	Harness
	6	92П-3724142 **	1	Harness
	7	520604	1	Male socket
	8	620604	1	Female socket
	9	920-3724131-A	1	Harness
	10	925-3712025	1	Bracket
	11	M8-6gx20.88.35.019 GOST 7796-70	8	Bolt
	12	C 8.01.019 GOST 6958-78	4	Washer
	13	8T OST 37.001.115-75	8	Washer
	14	A30.04.017-01	4	Cap
	15	36-4603079-B2	2	Blind plug
	16	920-3711011 **	2	Bracket
	17	923-3724142 **	2	Harness
	18	920-3712021	2	Housing
	19	920-3712013	2	Washer
	20	920-3712010	2	Bracket
	21	920-3712022	2	Housing
	22	4x10.019	8	Male screw
	23	B.M6-6gx20.58.019 GOST 17475-80	4	Screw
	24	M6-6gx18.88.35.019 GOST 7798-70	8	Bolt
	25	M6-6H.6.019 GOST 5915- 70	8	Nut
	26	6T OST 37.001.115-75	8	Washer
	27	920-3712012	2	Bracket
	28	A30.04.017	4	Cap
	29	B.M6-6gx18.58.019 GOST 17473-80	4	Screw
30	C 6.01.019 GOST 11371- 78	4	Washer	

* Without working lights.

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

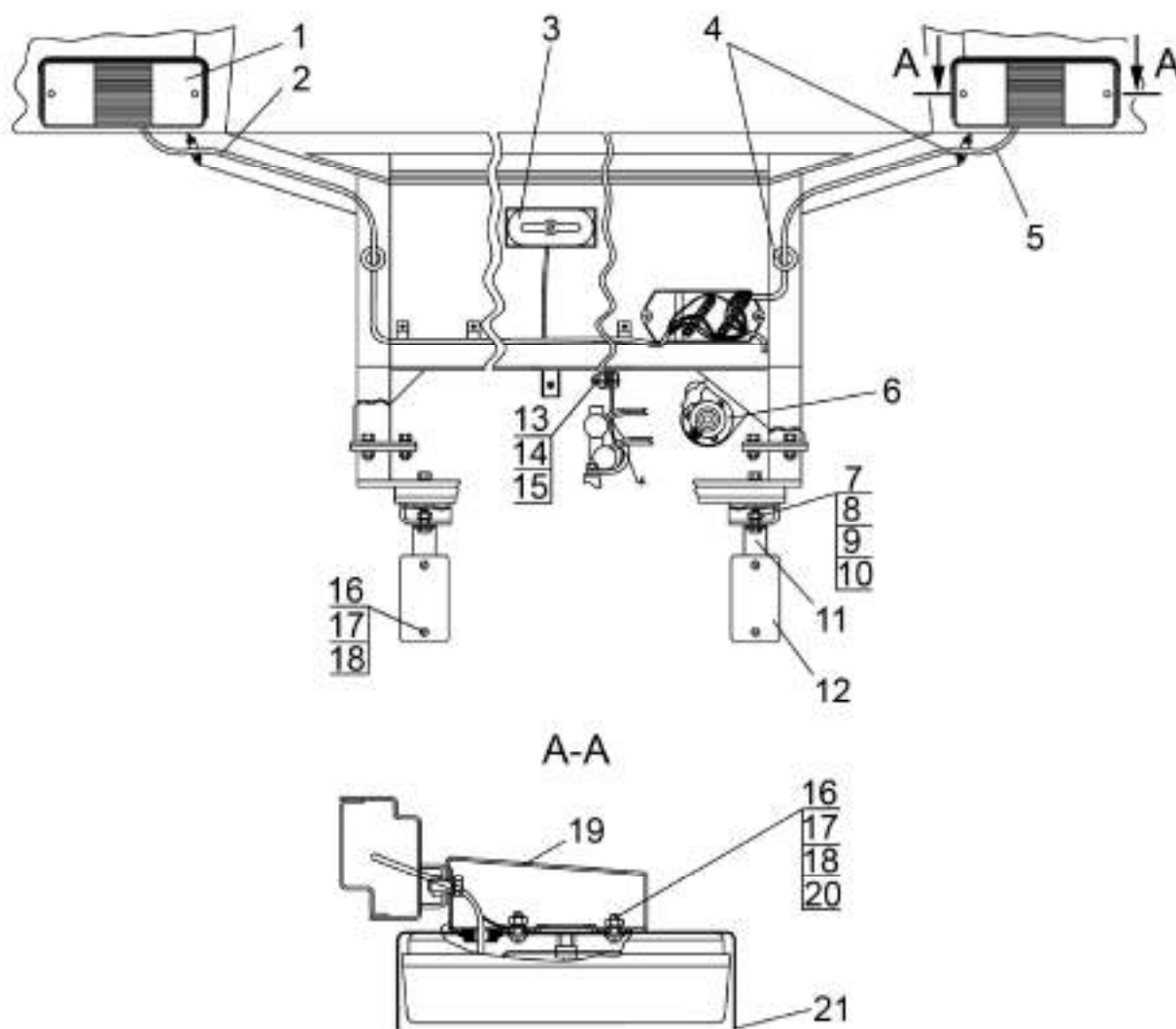


Fig. 37.9. Installation of back lights

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

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

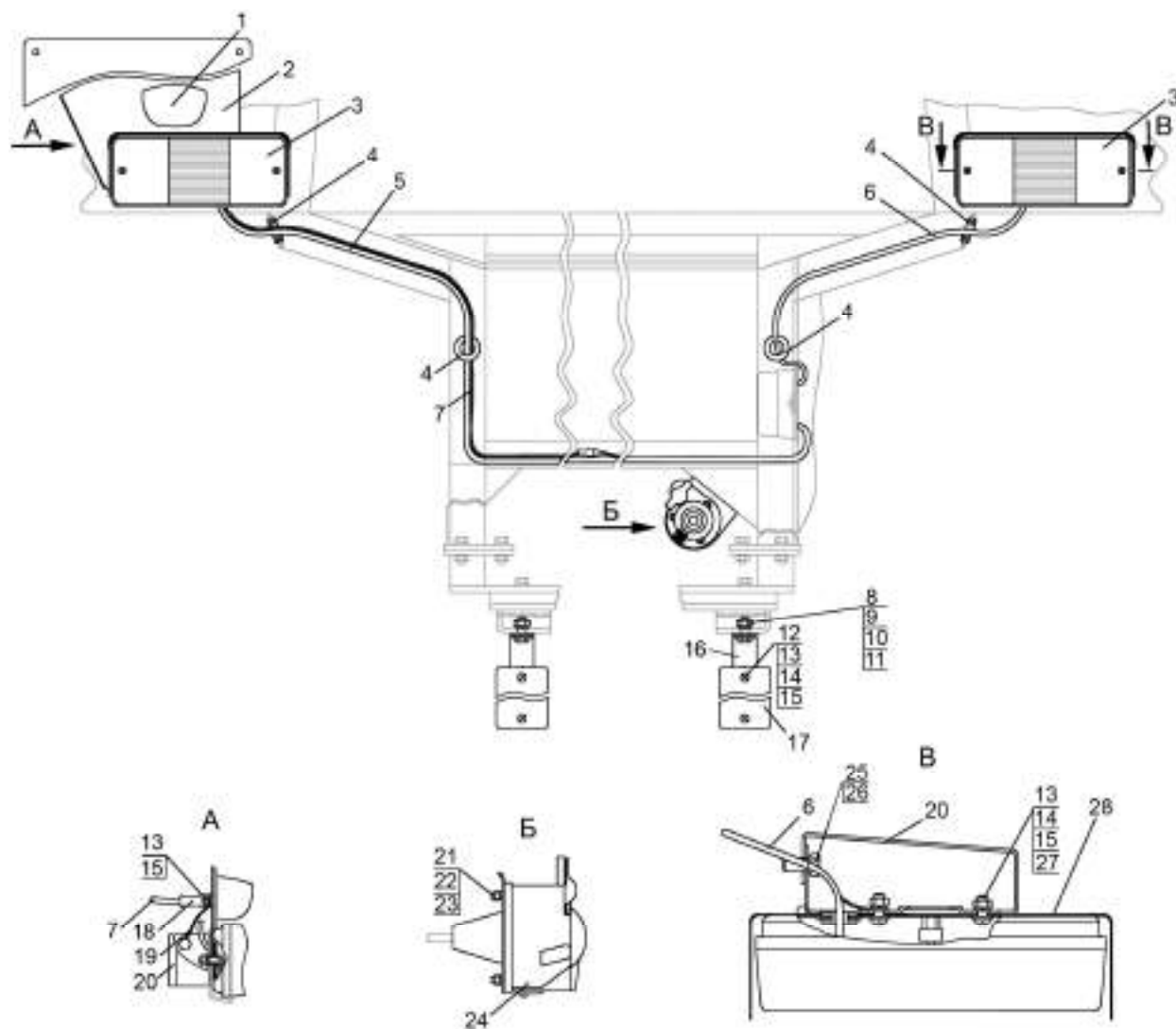


Fig. 37.10. Installation of back lights

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
37.10		82П-3700060	1	Installation of back lights (1-28)
	1	112.00.05-01	1	Number plate light
	2	923-3716011	1	Bracket
	3	7303.3716	2	Back light
	4	70-3723042-01	4	Bushing
	5	85-3724163	1	Harness
	6	85-3724162	1	Harness
	7	80-3724224	1	Cable
	8	M10x25	2	Bolt
	9	M10	2	Nut
	10	ШЧ 10	2	Washer
	11	ШП 10	2	Washer
	12	ВМ6x16	4	Screw
	13	M6	10	Nut
	14	ШЧ 6	8	Nut
	15	ШП 6	10	Washer
	16	Ф50-3731011	2	Bracket
	17	3202.3731	2	Reflector
	18	70-3723035	1	Tip
	19	80-3724134	1	Cable
	20	85-3716012	2	Bracket
	21	ВМ5x35	3	Screw
	22	M5	3	Nut
	23	ШП 5	3	Washer
	24	P9-1	1	Socket
	25	M8x16	4	Bolt
	26	ШП 8	4	Washer
	27	ВМ6x25	4	Screw
28	85-3716015	2	Housing	

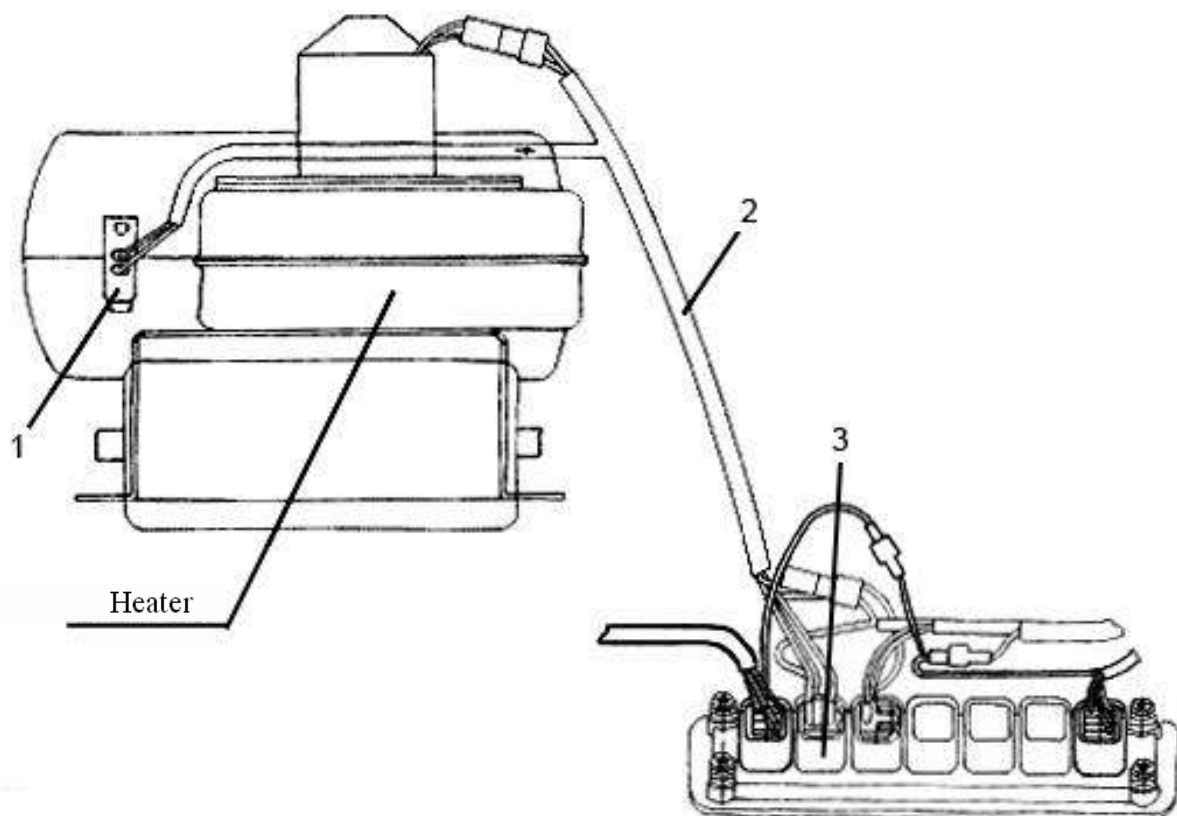


Fig. 37.11. Electrical equipment of heater

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

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

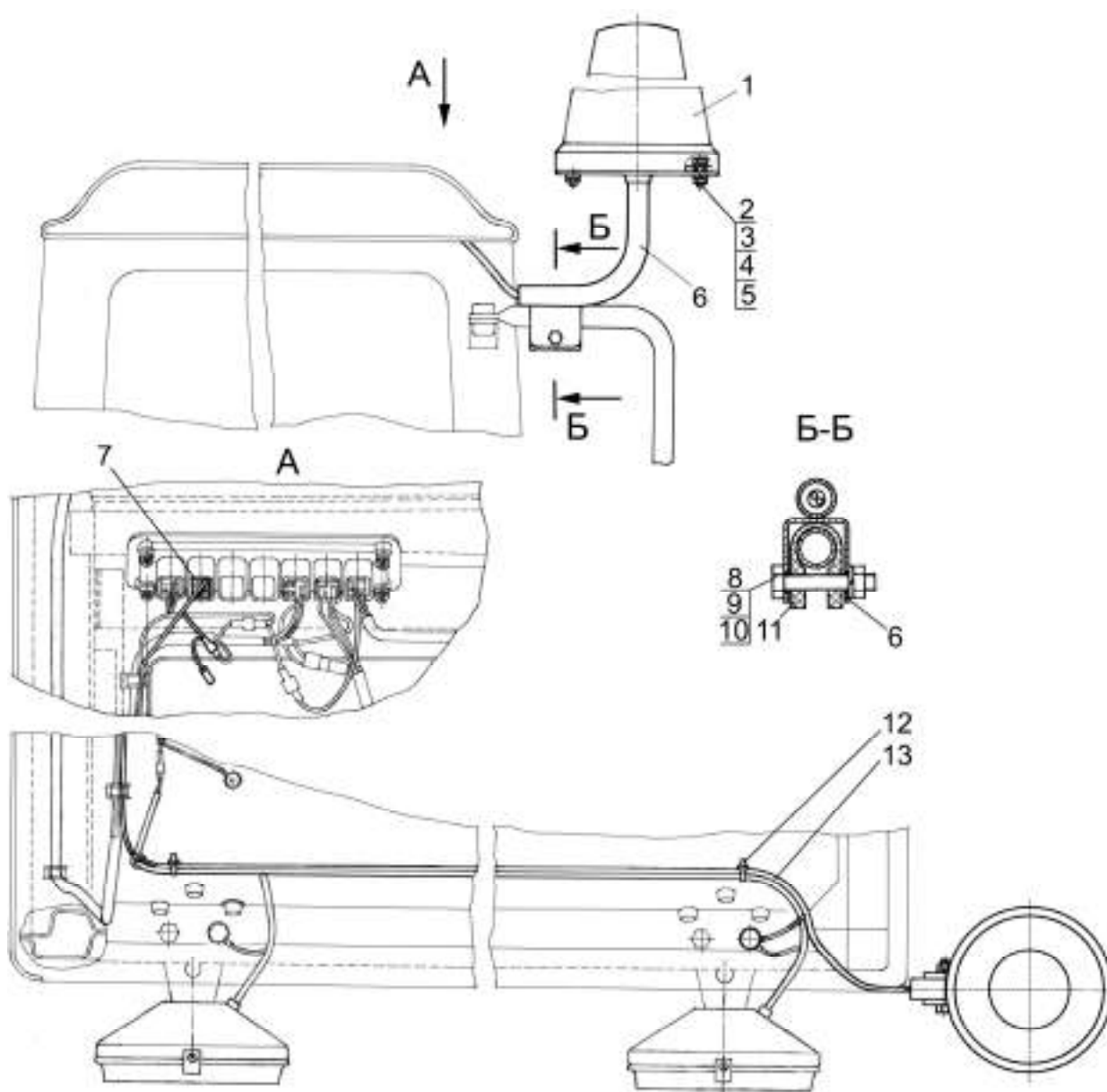


Fig. 37.12. Beacon installation

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

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

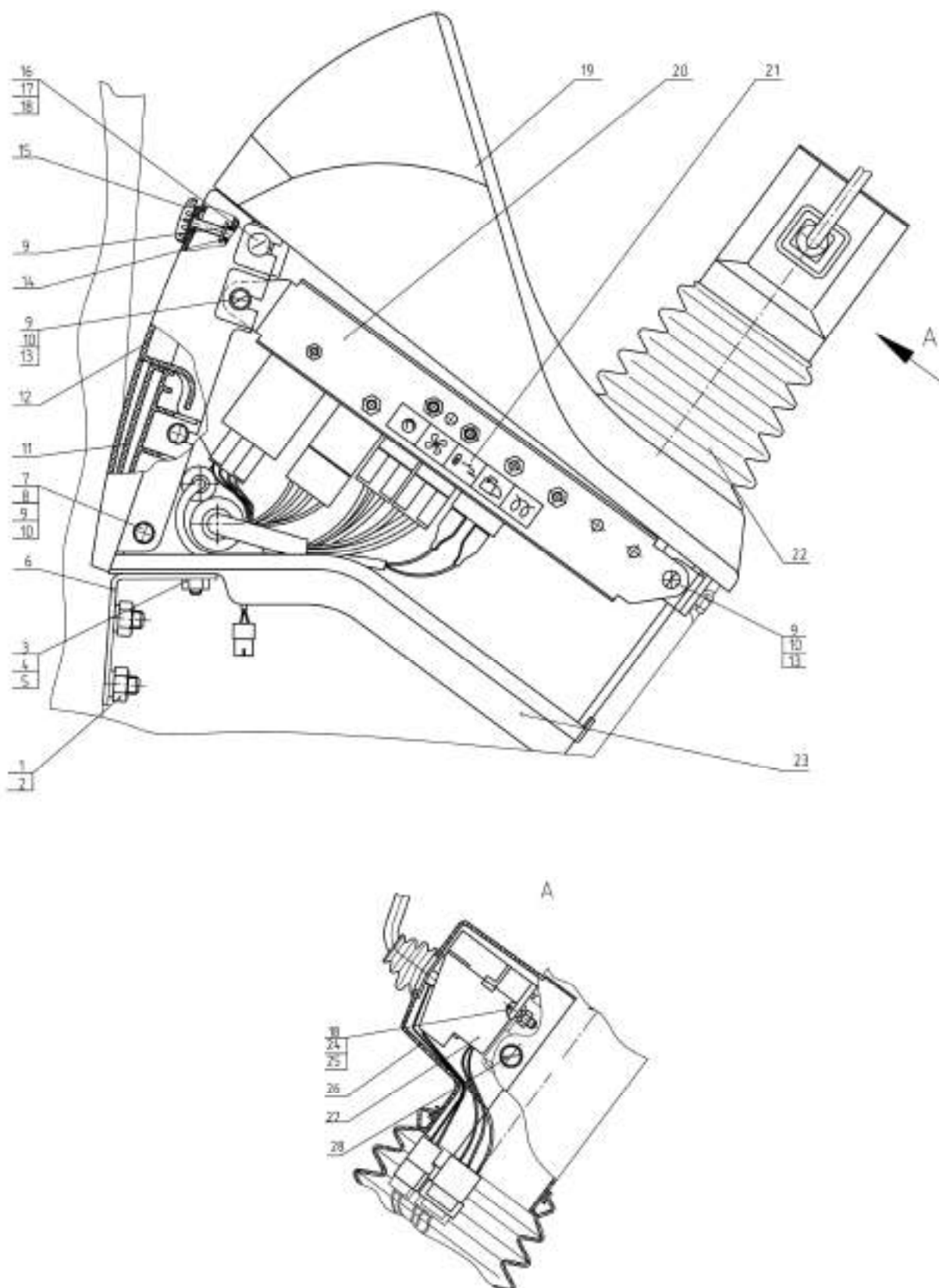


Fig.38.1 Dashboard

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

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

* With 3912.3769-01 switch

** With ПКП-1А switch

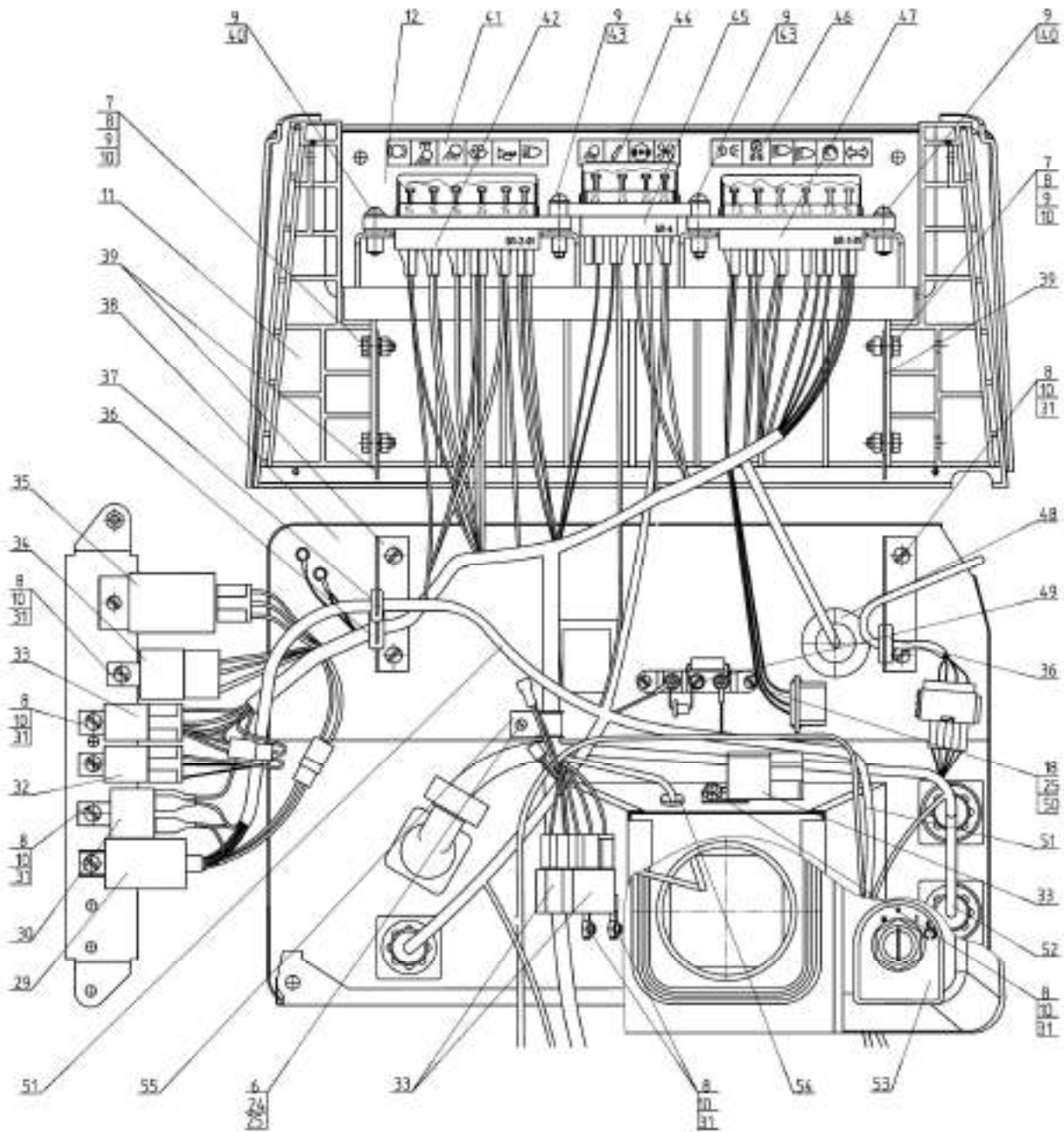


Fig. 38.2 Dashboard

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

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

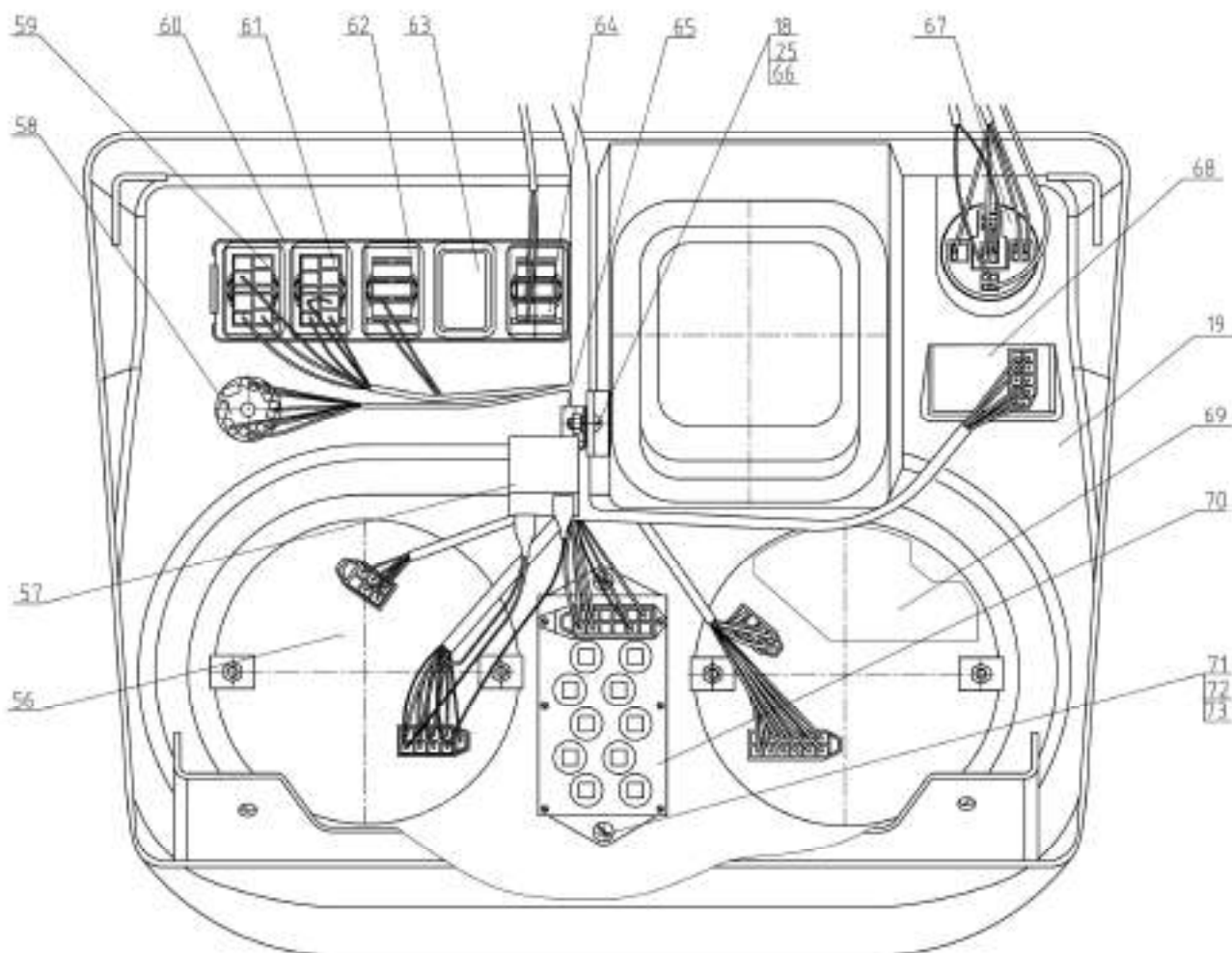


Fig. 38.3 Dashboard

Group 38. Dashboard

Subgroup 3805. Dashboard

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

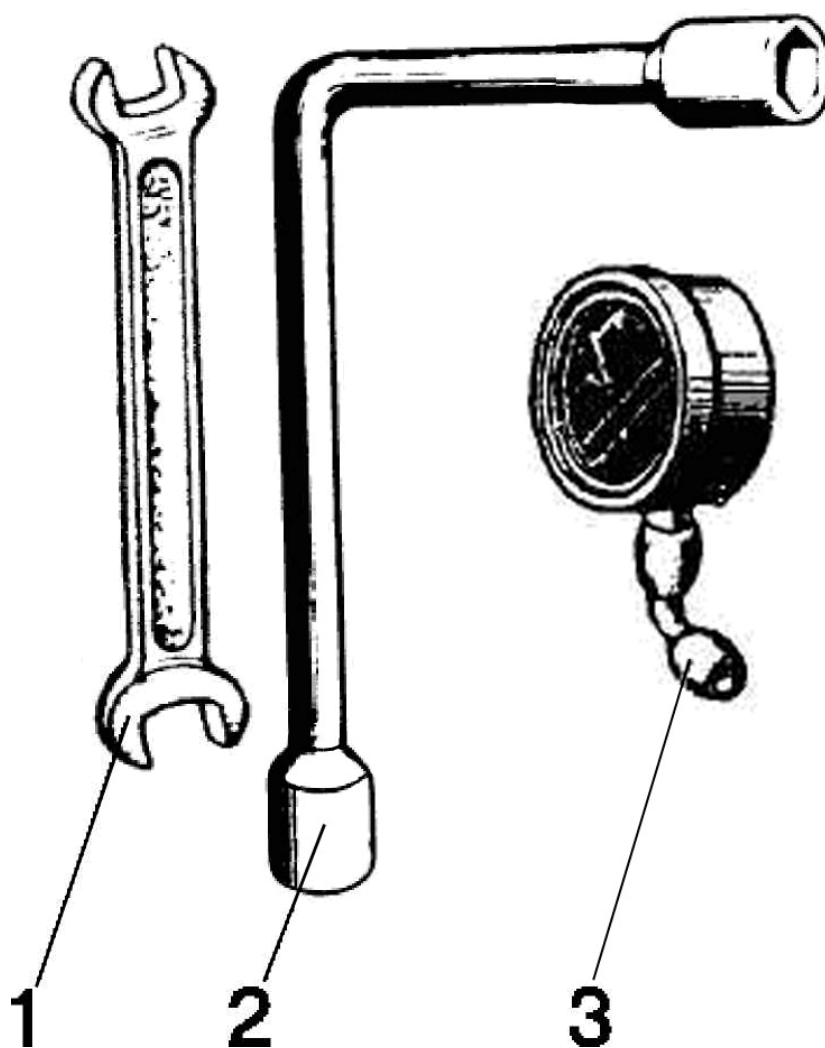


Fig. 39.1 Operator tool

Group 39. Tools and accessories
Subgroup 3901. Operator tool

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

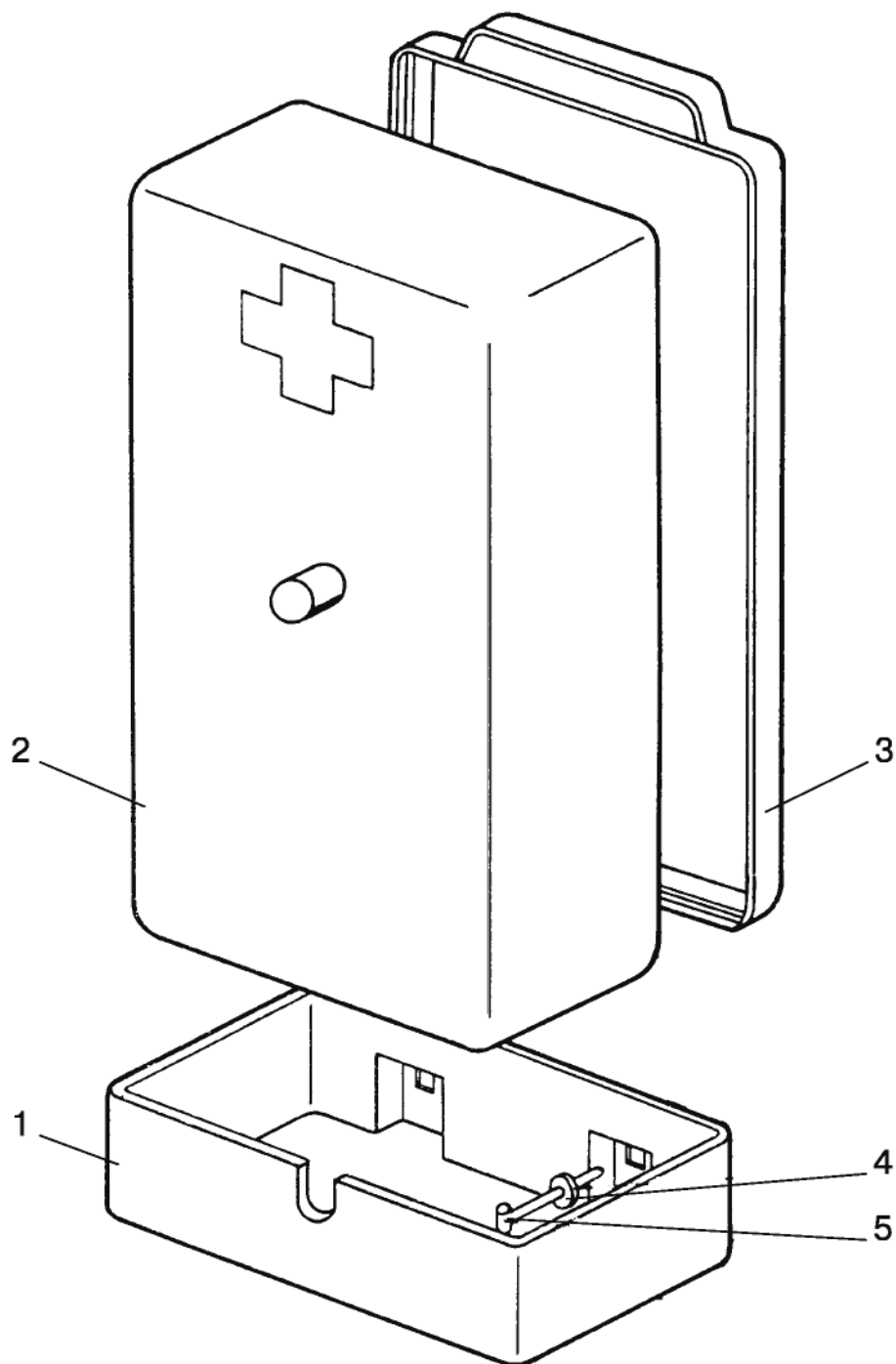


Fig. 39.2. First aid kit

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

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

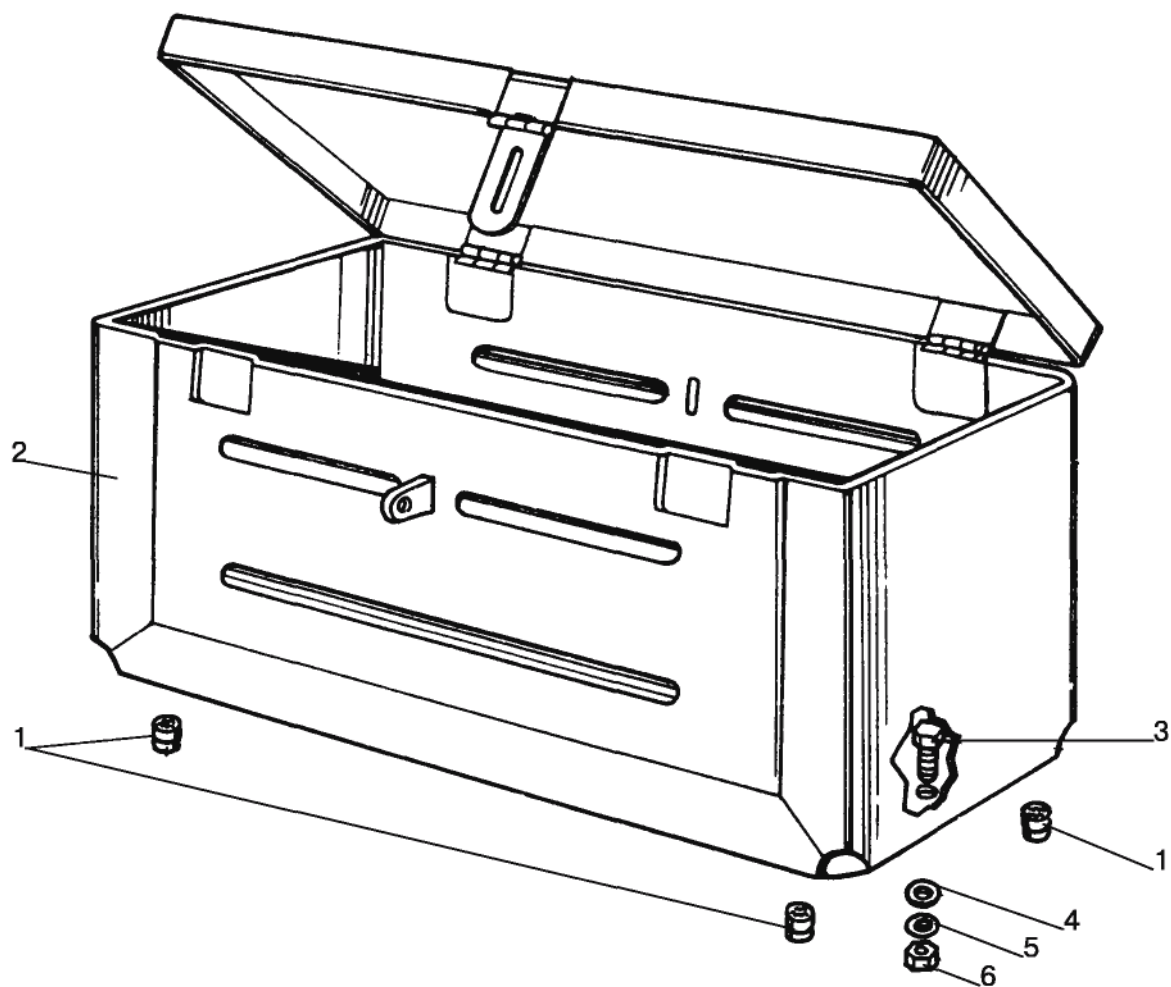


Fig. 39.3. Tool box

Group 39. Tools and accessories
Subgroup 3919. Tool box

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

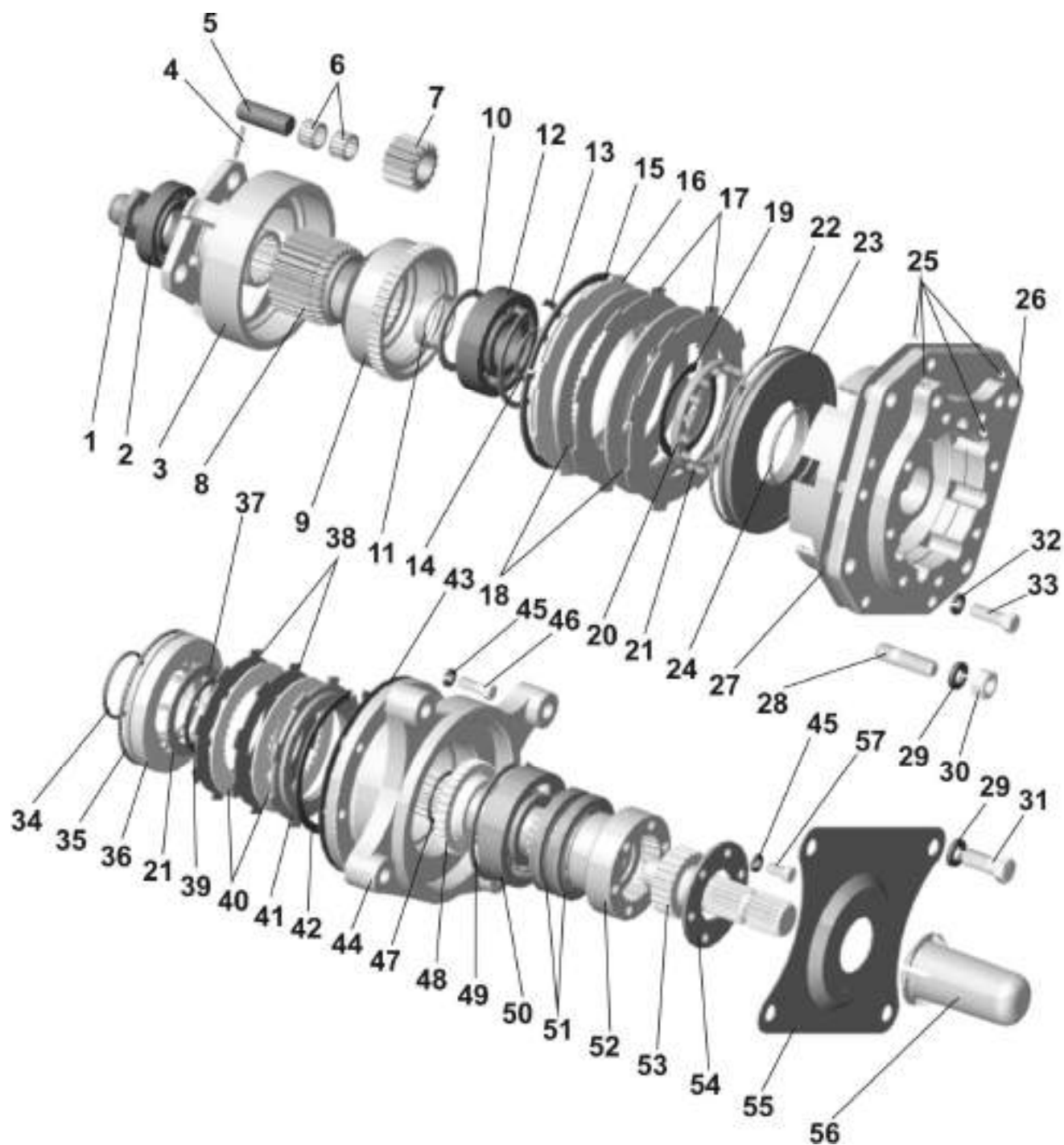


Fig. 42.1 Reduction gear unit

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

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

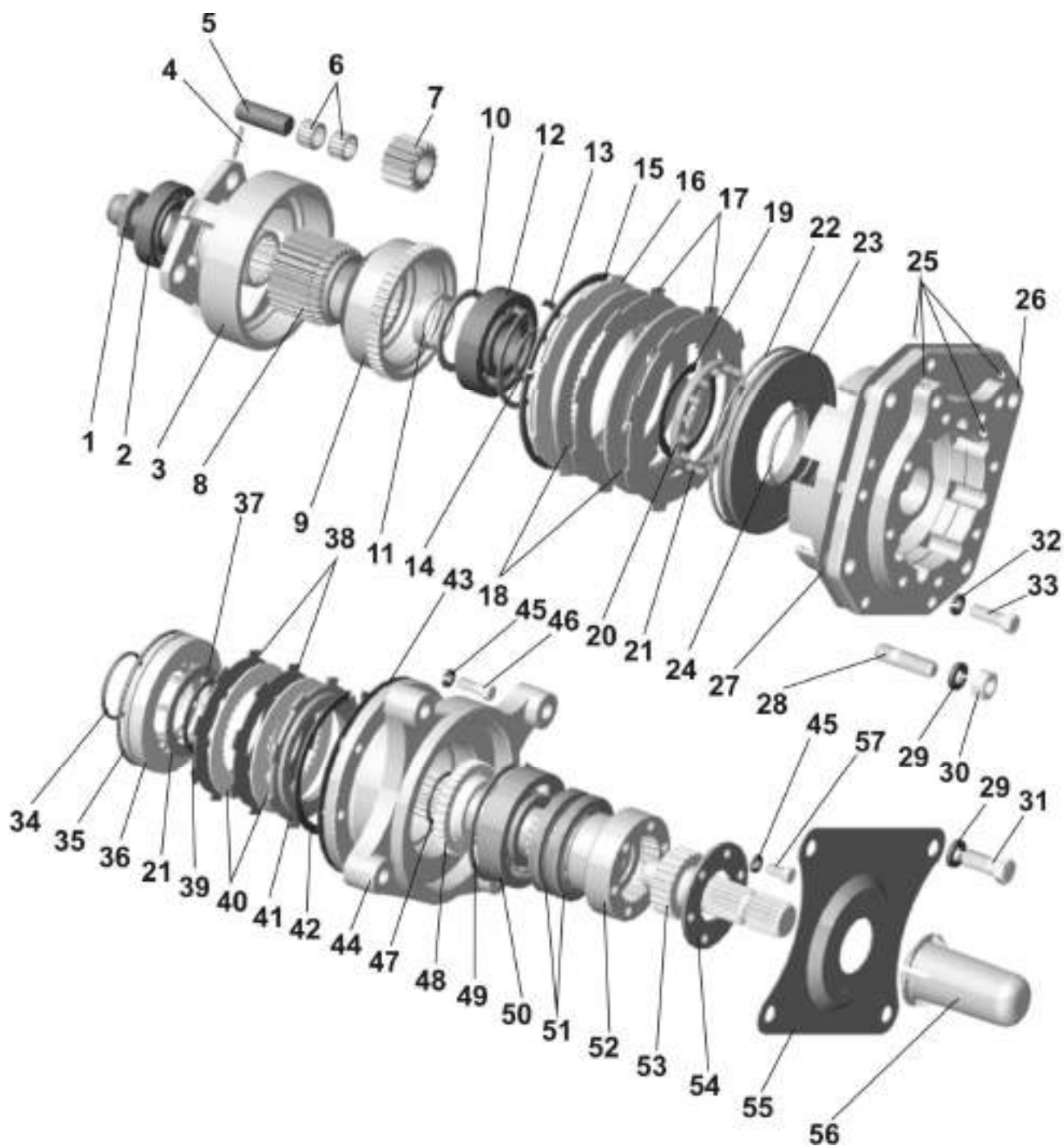


Fig. 42.1 Reduction gear unit

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

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

* Upon request

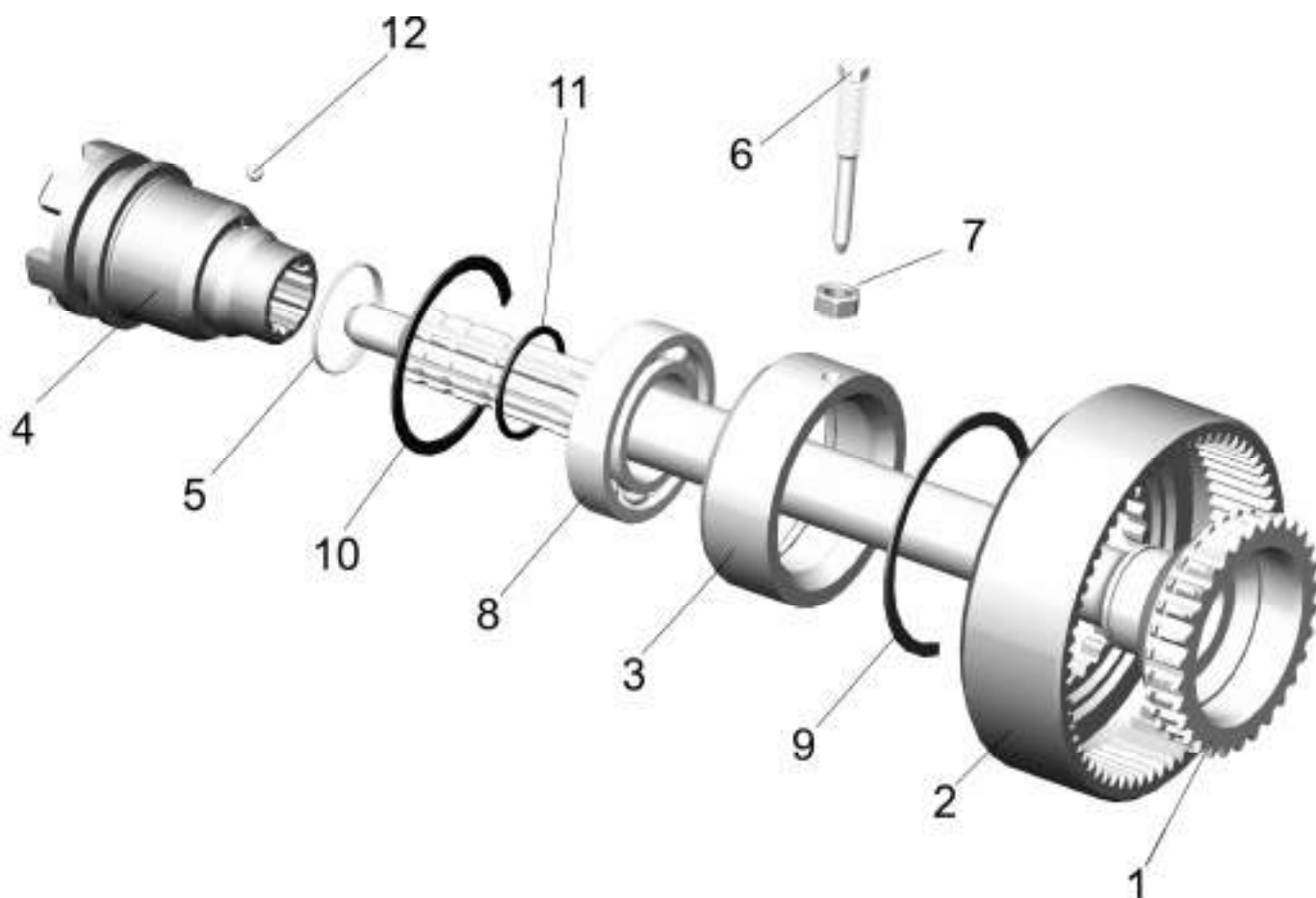


Fig. 42.2 Reduction gear unit

Subgroup 4202. Rear PTO shaft

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.2	1	70-4202044-Б	1	Shaft
	2	70-4202043	1	Crown gear
	3	50-4202066-A	1	Sleeve
	4	50-4202046-Б	1	Shift coupling
	5	A61.03.002	1	Ring
	6	50-4202068	1	Screw
	7	M12x1,25	1	Nut
	8	210 АУШ1	1	Bearing
	9	2C 110	1	Ring
	10	2C 90	1	Ring
	11	2C 50	1	Ring
	12	7,938-100	1	Ball

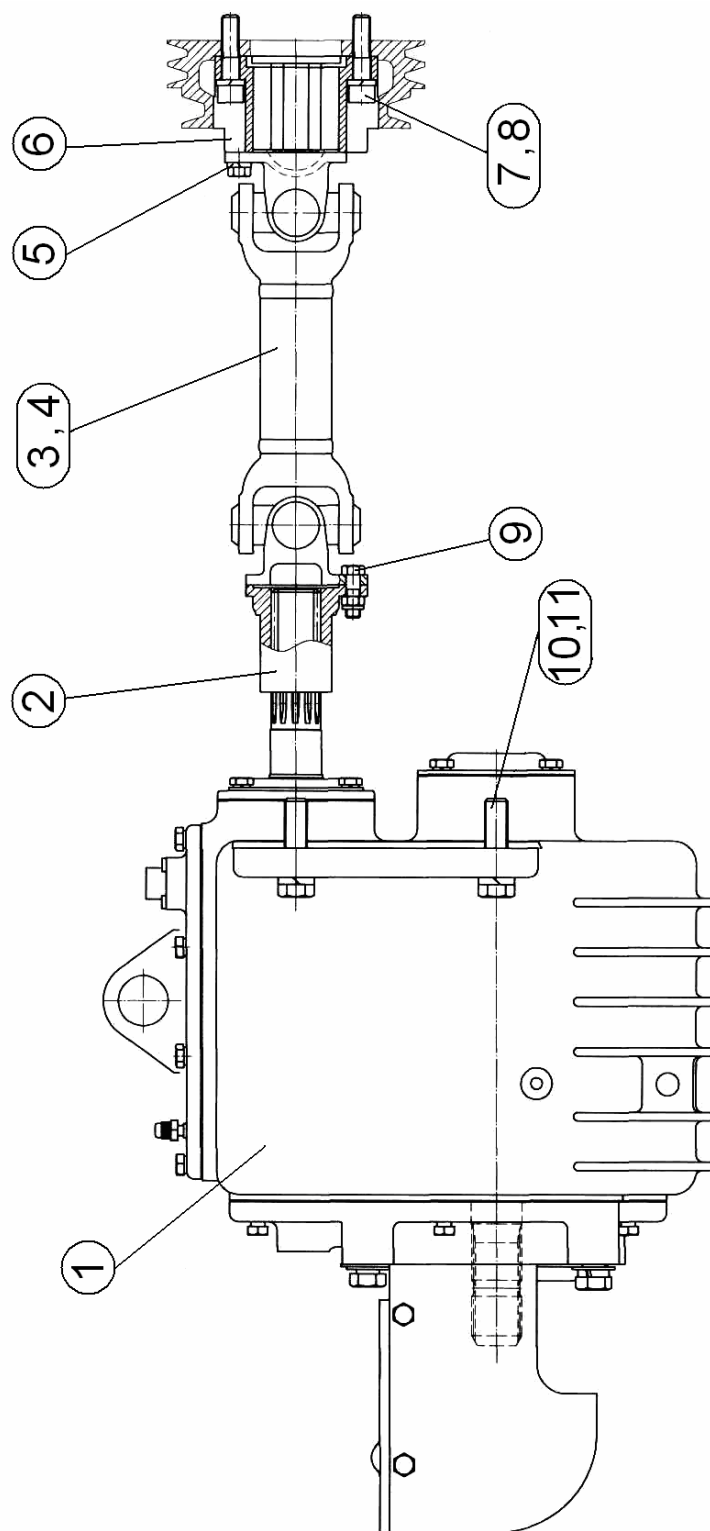


Fig. 42.3. Front PTO shaft

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

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

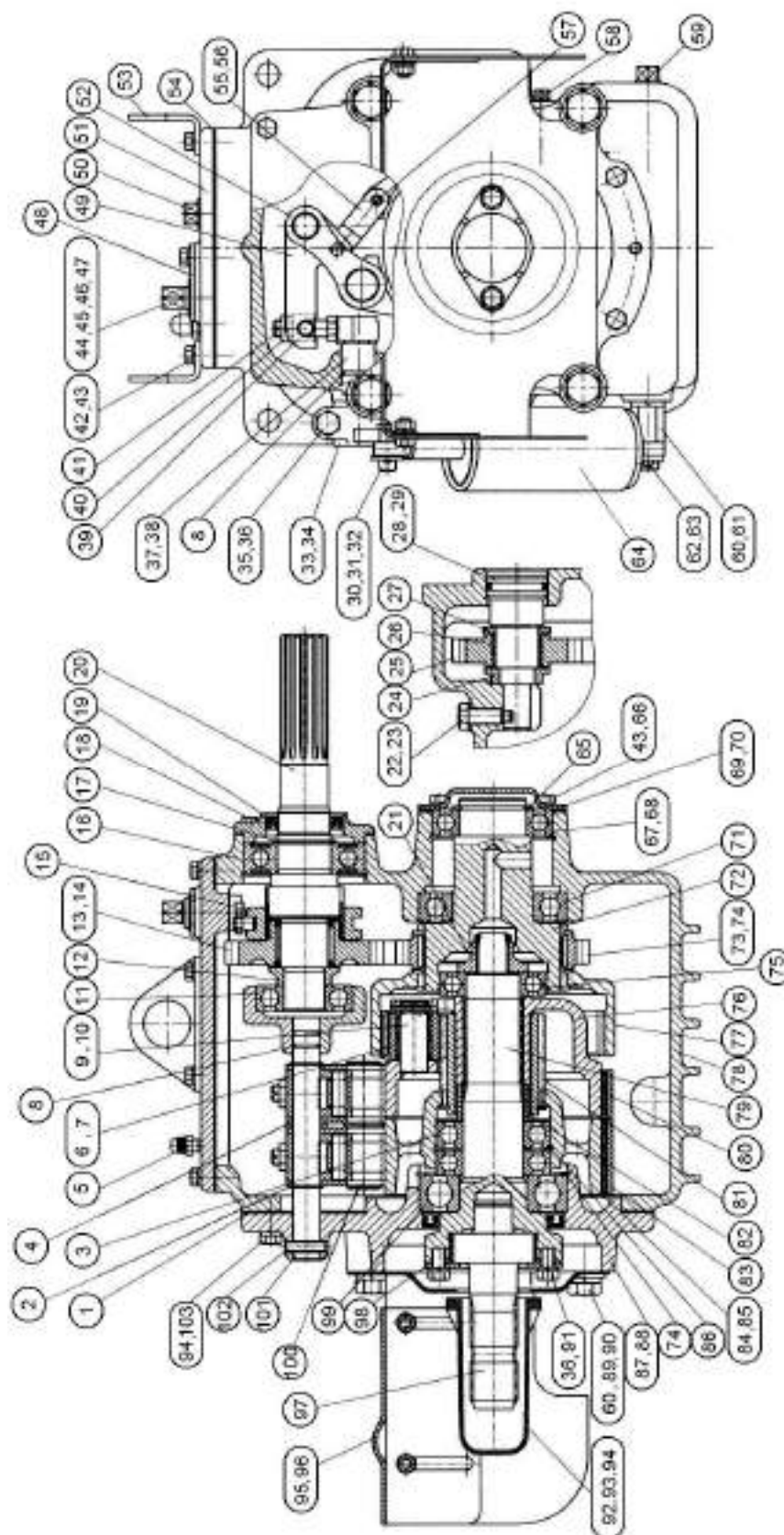


Fig. 42.4. Front PTO shaft. Reduction gear unit

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

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

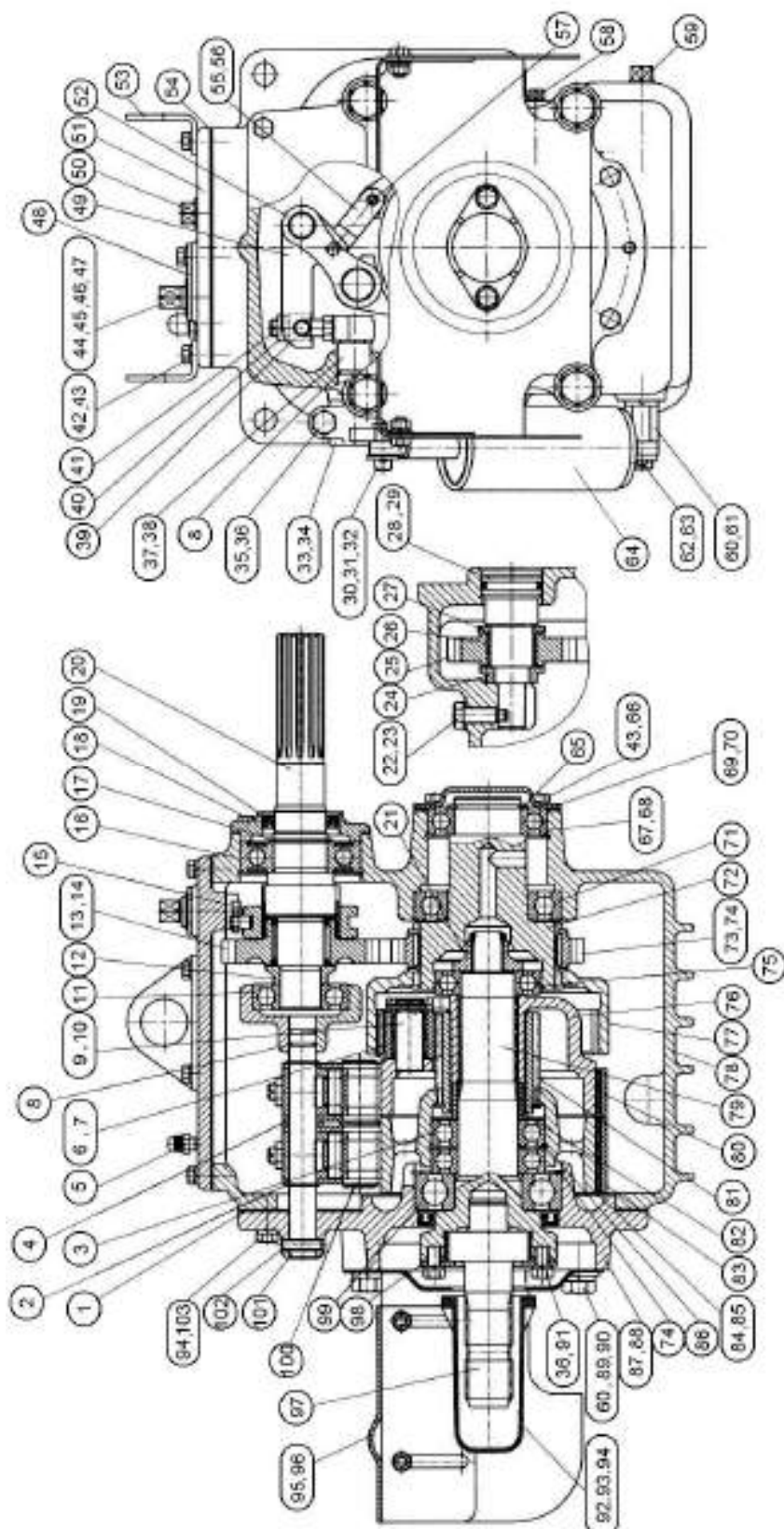


Fig. 42.4. Front PTO shaft. Reduction gear unit

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

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

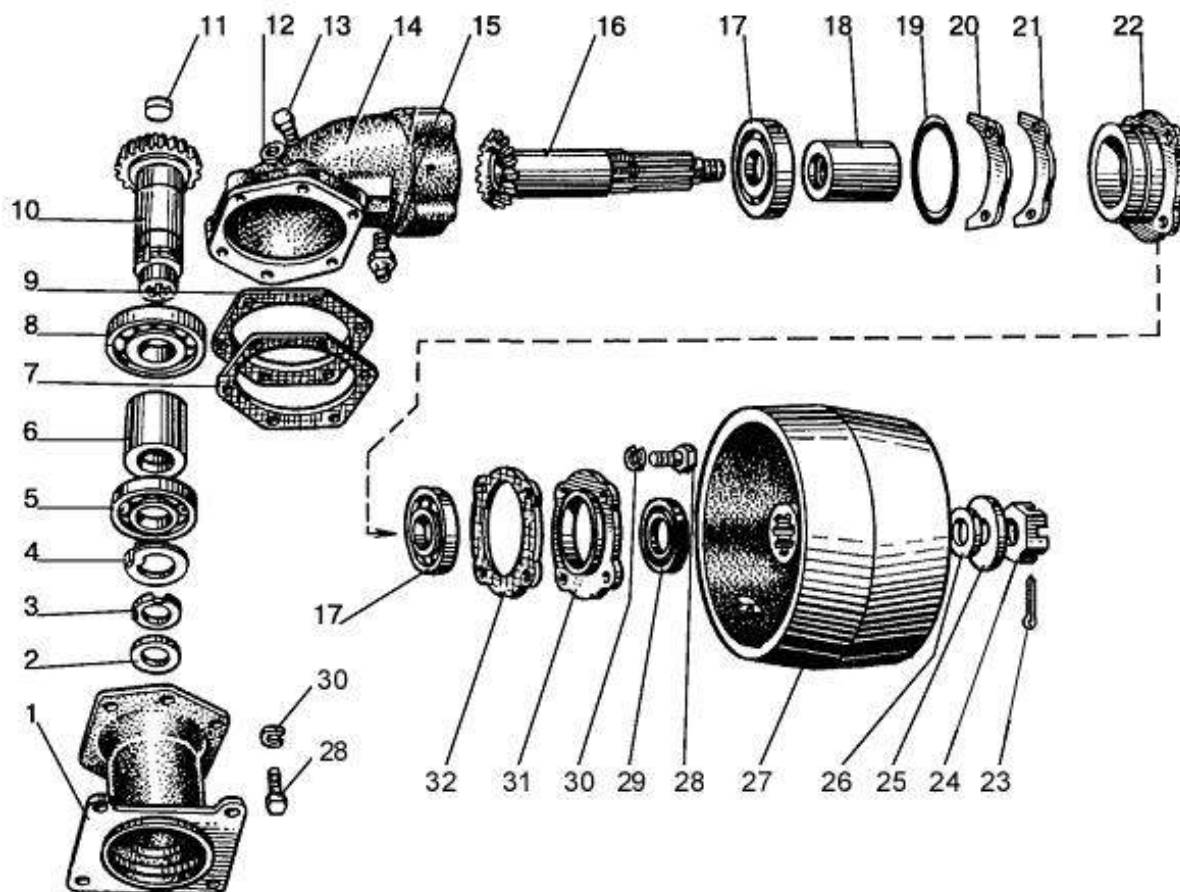


Fig. 42.5. Drive pulley

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

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

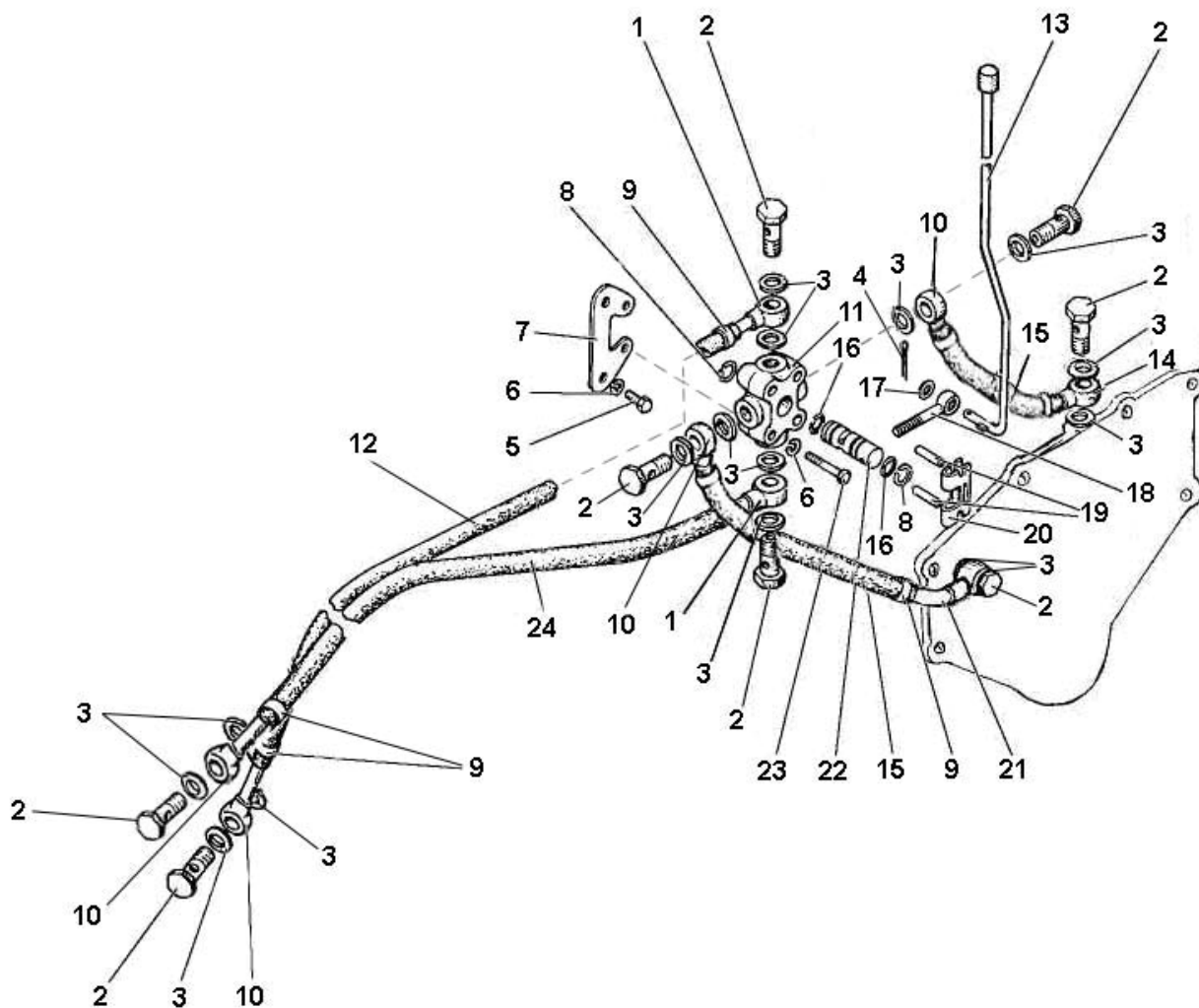


Fig. 42.6. Rear PTO shaft control (for dry brakes)

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

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

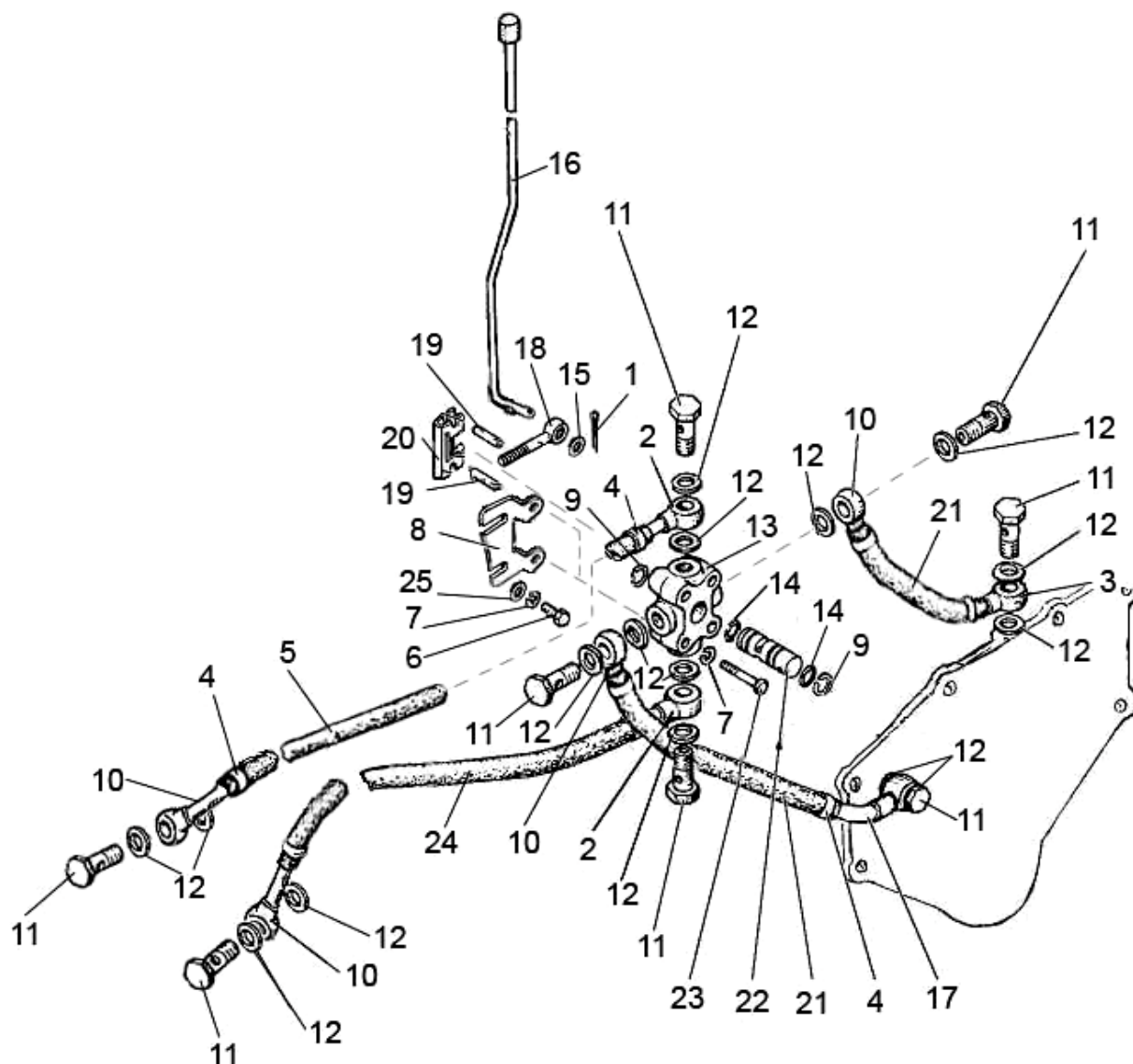


Fig. 42.7. Rear PTO shaft control (for wet brakes)

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

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

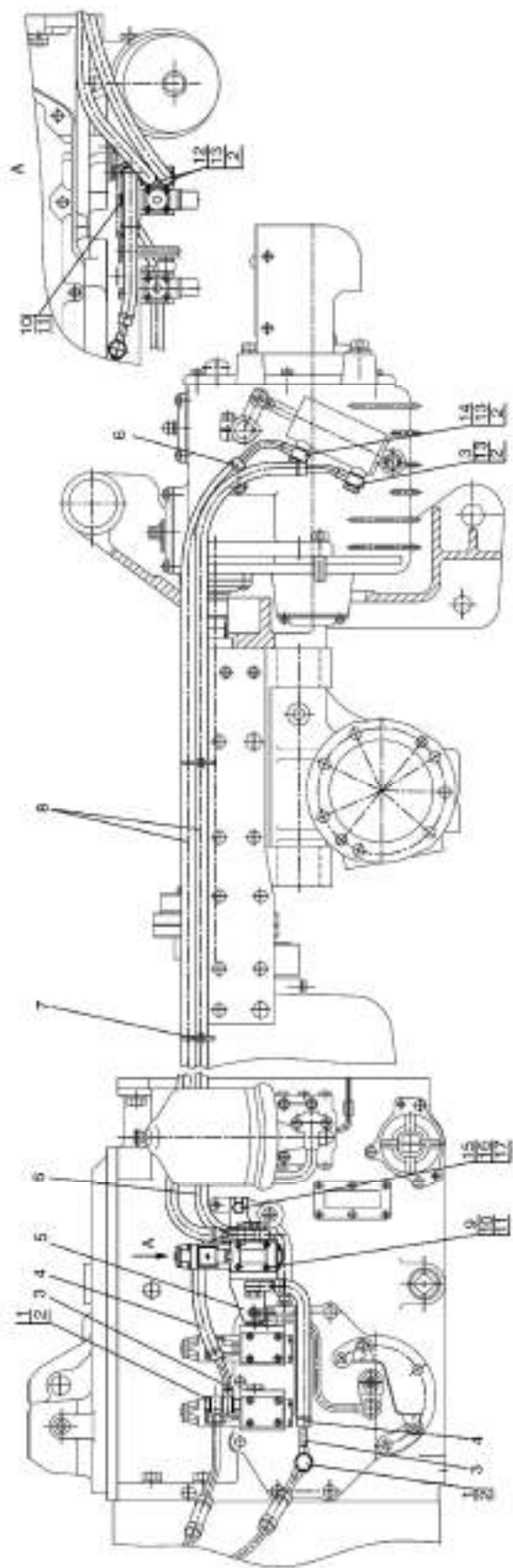


Fig. 42.8. Front PTO shaft control

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
42.8		1523-4218010	1	Front PTO shaft control
	1	240-1111103	2	Bolt
	2	Д18-055-A	6	O-ring
	3	1221-4216035	3	Tip
	4	1221-4218014	2	Hose
	5	1221-4216253	1	Bracket
	6	12-20/9-CGW	2	Clamp «NORMA» TORRO
	7	80-3723045-01	4	Collar
	8	1221-4218016	2	Hose
	9	1221-4216180	1	Plate with distributor
	10	M8x20	2	Bolt
	11	ШП 8	2	Washer
	12	Ф80-3407720	4	Oil pipeline
	13	Д18-051	6	Bolt
	14	1221-4216055	1	Tip
	15	M10x20	1	Bolt
	16	ШЧ 10	1	Washer
17	ШП 10	1	Washer	

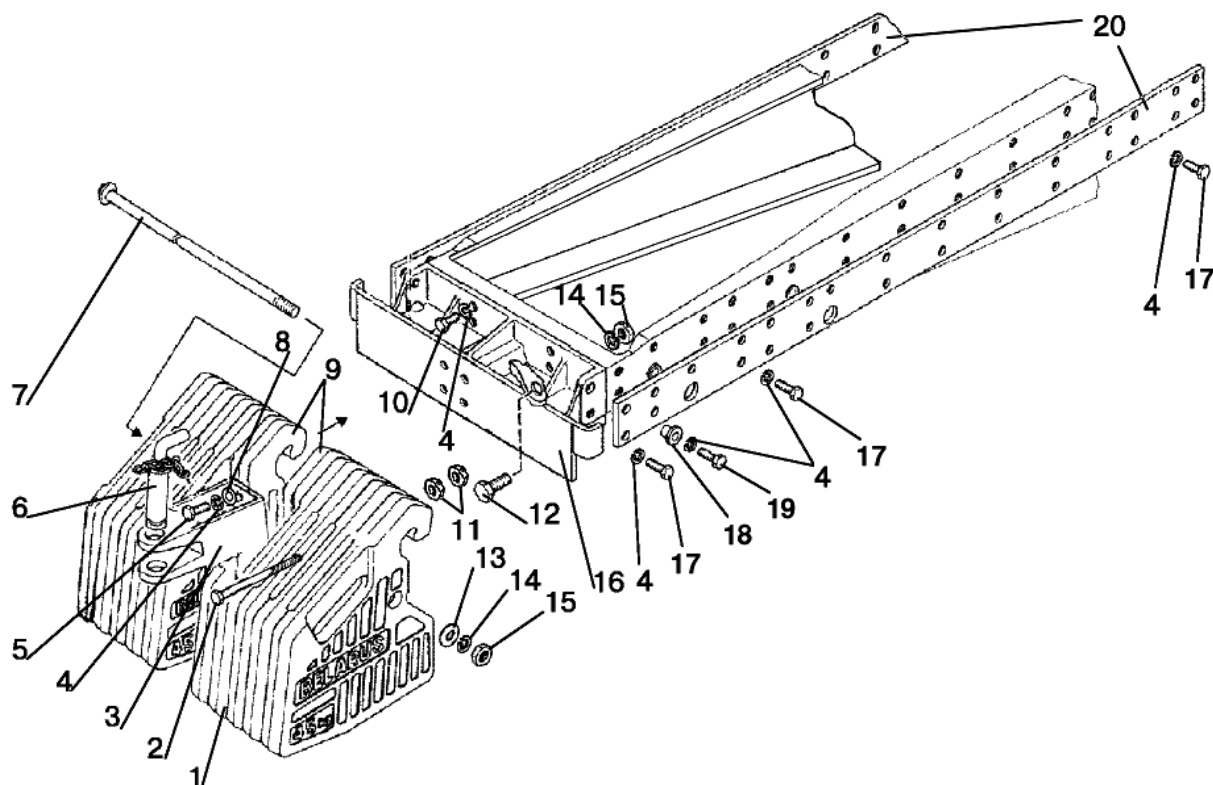


Fig. 42.9. Ballast

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

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

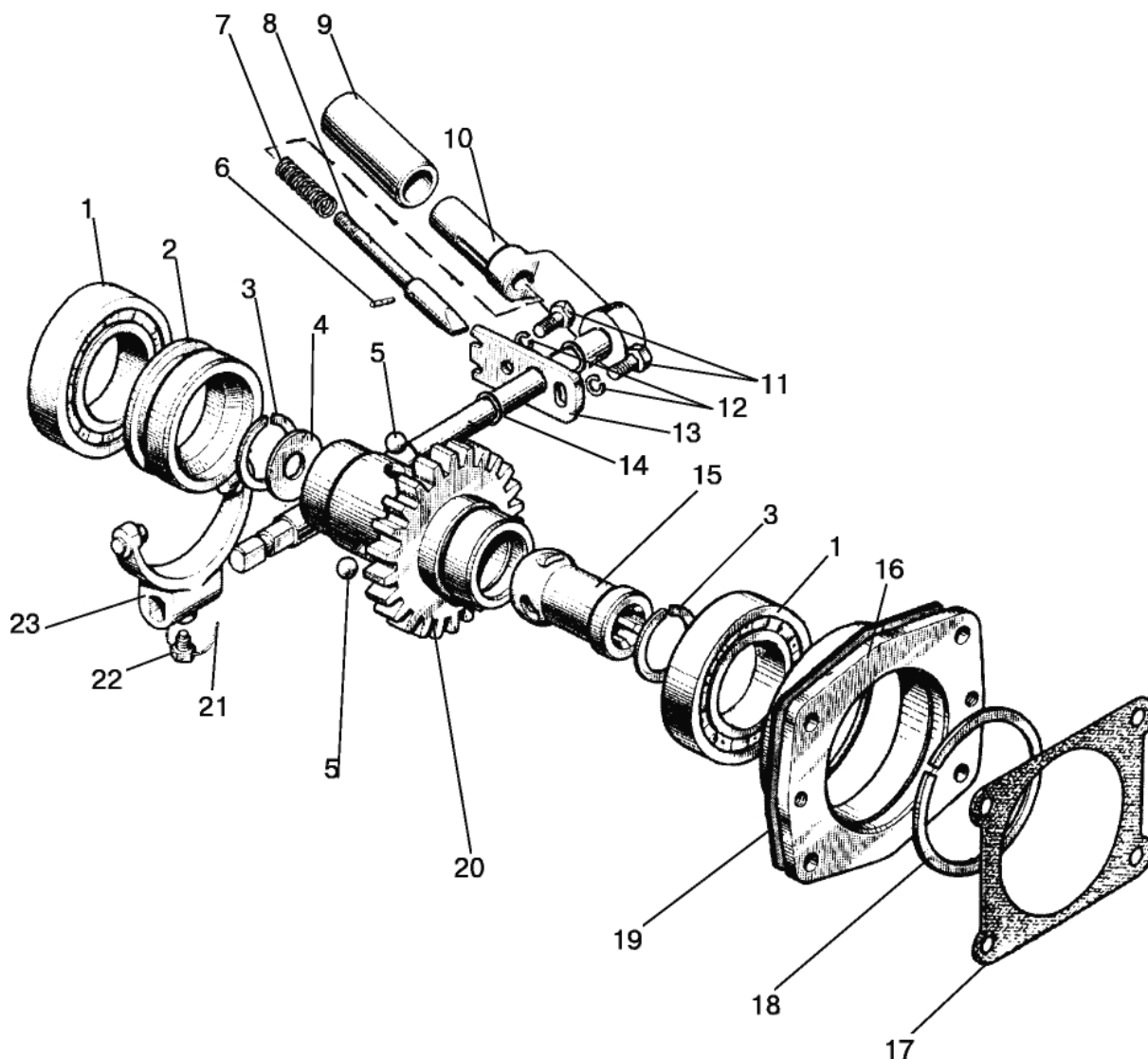


Fig. 46.1. Pump drive

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

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

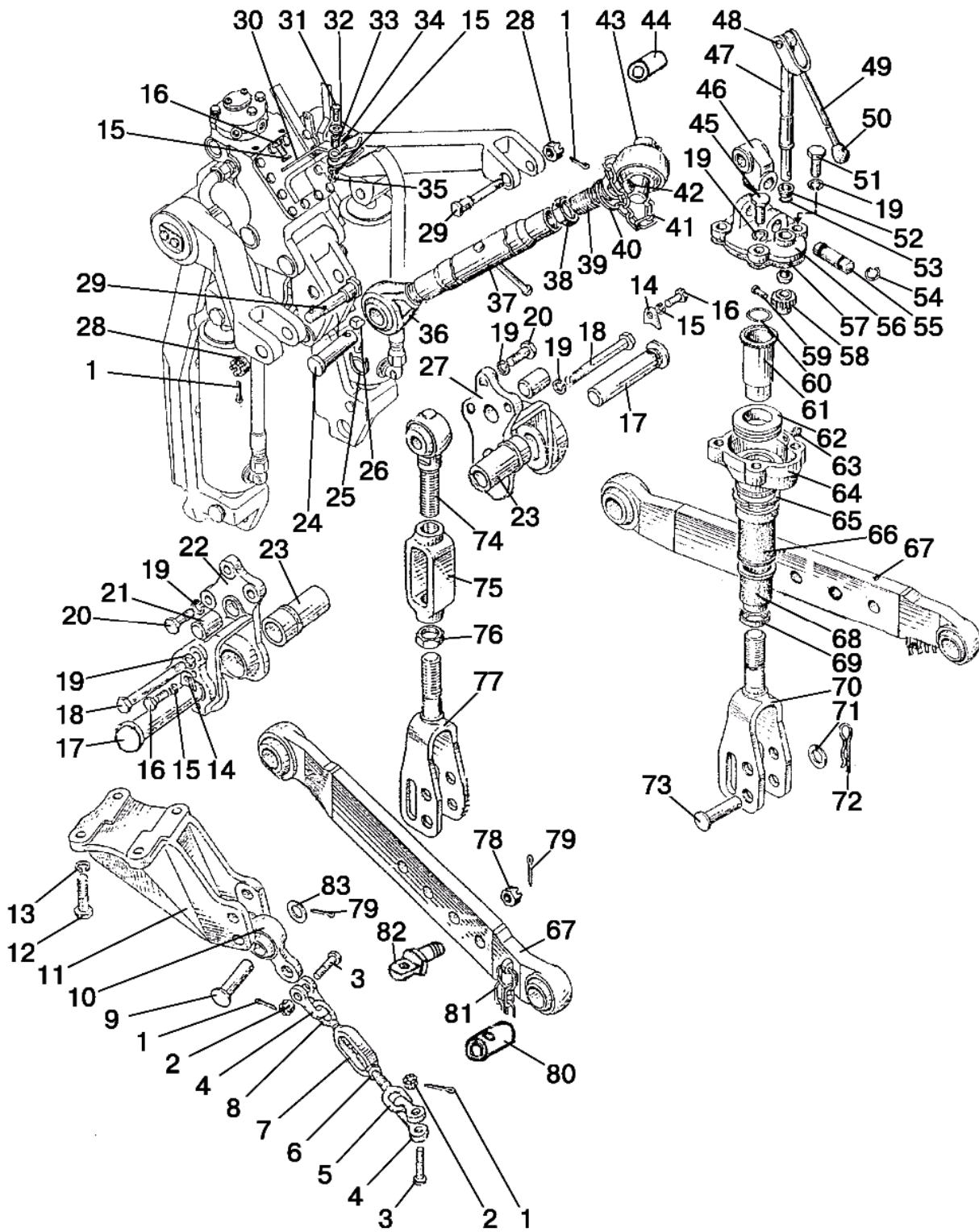


Fig. 46.2. Hydraulically operated lift linkage

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.2		1220-4605510-05	1	Rear lift linkage (1-83)
		1220-4605120	2	Stabilizer (1-8, 10)
		1223-4605530-04	2	Rod (67, 78, 79, 81, 82)
		1220-4605590	1	Top link (36-43)
		1220-4605610-01	2	Lifting rod (19, 45-66, 68-70)
		1220-4605670	1	Bracket (16, 30-35)
		1220-4605695	1	Screw (39-43)
		1220-4605612-01	1	Lifting rod (74-77) (upon request)
		1 4x36	6	Forelock
		2 M16	4	Nut
		3 1220-4605104	4	Bolt
		4 1220-4605107	4	Clip
		5 1220-4605102	2	Screw
		6 M24	2	Nut
		7 1220-4605103	2	Stabilizer
		8 1220-4605102-01	2	Screw (LH)
		9 Φ 50-4605084	2	Pin
		10 1220-4605105	2	Clip
		11 1220-4605091-Б1	1	Right bracket
		1220-4605091-Б1-01	1	Left bracket
		12 680-2707024	8	Bolt
		13 ШП 20	8	Washer
		14 1220-4605504	2	Plate
		15 ШП 12	5	Washer
		16 M12x25	4	Bolt
		17 1220-4605503	2	Pin
		18 80-2800016-01	2	Bolt
		19 ШП 16	16	Washer
		20 1220-4605506	6	Bolt
		21 1220-4605507	2	Pin
		22 1220-4605501-01	1	Bracket
		23 1220-4605502	2	Bushing
		24 A61.10.001-02	1	Pin
		25 A61.05.004	1	Ring
		26 A61.05.005	1	Chock
		27 1220-4605501	1	Bracket
		28 M20x1,5	2	Nut
		29 142-4605076 or 921-4605076	2	Pin
		30 1220-4605675	1	Bracket
		31 M12x35	1	Bolt
		32 ШЧ 12	1	Washer
		33 50-4605069	1	Bushing
	34 A61.07.002	1	Spring	
	35 M12	1	Nut	
	36 A61.02.100-03	1	Screw	
	37 A61.03.100	1	Pipe	
	38 A61.02.003	1	Lock nut	
	39 1220-4605570	1	Screw with hinge Φ 32 (3 cat.)	
	A61.02.100-04	1	Screw with hinge Φ 22,5	
	A61.02.100-05	1	Screw with hinge Φ 25,7 (2 cat.)	
	40 A61.03.002	2	Ring	
	41 A61.08.001-03	2	Chain (7 links)	
	42 A61.05.100-05	1	Chock with ring	

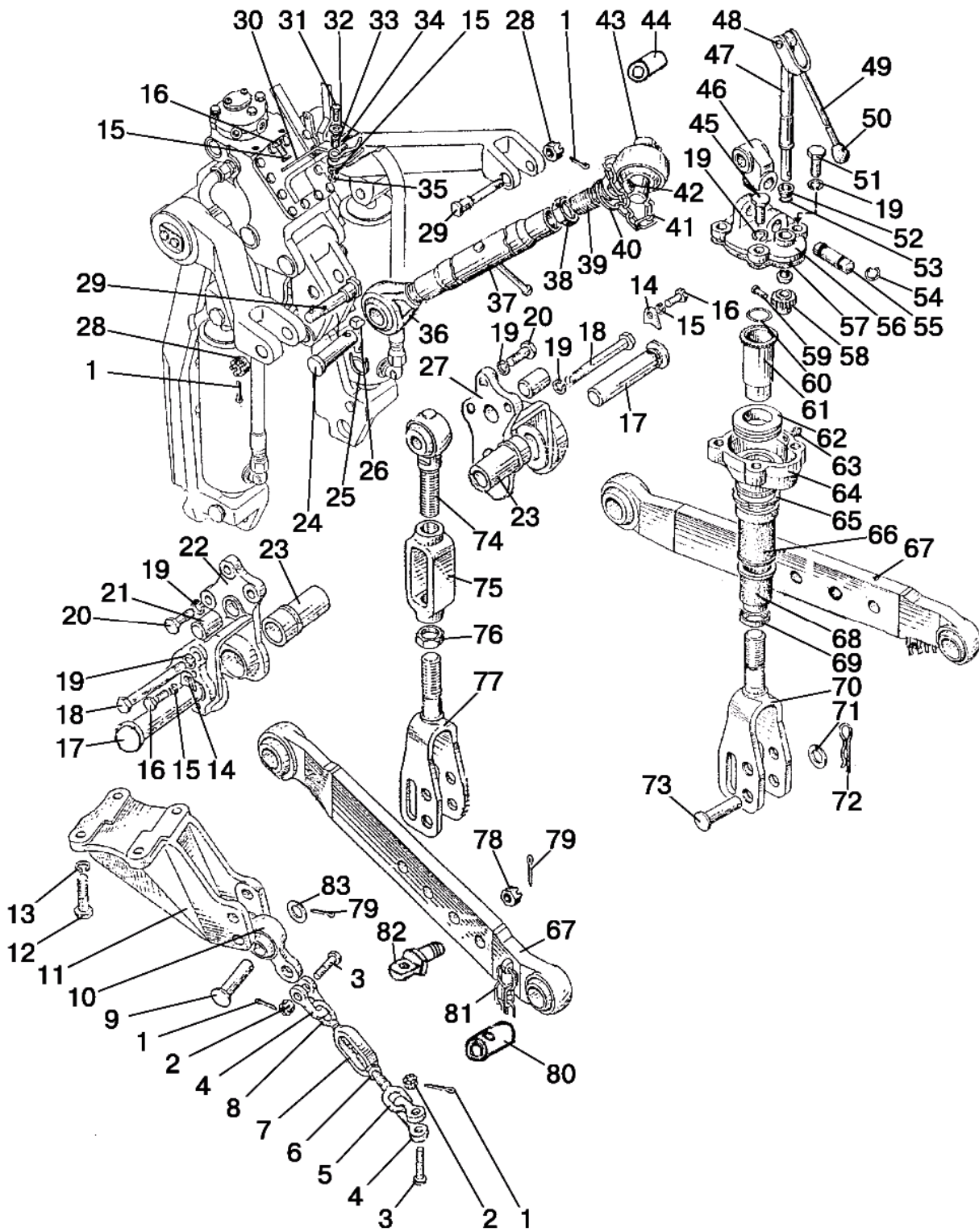


Fig. 46.2. Hydraulically operated lift linkage

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.2	43	1220-4605693	1	Pin Ø 31,75 (3 cat.)
		A61.02.001-01	1	Pin Ø 25 (2 cat.)
		A61.02.001-02	1	Pin Ø 22
	44	1220-4605557	1	Reducing bushing (to 2 cat.)
	45	M16x40	4	Bolt
	46	1220-4605668-Б	2	Clip
	47	A61.01.600	2	Shaft
	48	A61.01.016-Б	2	Axis
	49	A61.01.400	2	Yoke
	50	A61.01.014	2	Handle
	51	142-4605408	4	Bolt
	52	A61.01.017	4	Bushing
	53	016-021-30-2-4	2	Ring
	54	142-4605031	4	Ring
	55	142-4605404-Б	2	Pin
	56	142-4605418-Б	2	Cover
	57	142-4605421	2	Gasket
	58	142-4605413	2	Gear
	59	A61.01.005	2	Axis
	60	142-4605403	2	Retainer
	61	142-4605425	2	Pipe
	62	8110	2	Bearing
	63	1.3.Л6.xp	2	Oiler
	64	142-4605415	2	Housing
	65	142-4605402	2	Bushing
	66	142-4605407	2	Pipe
	67	1223-4605530-04	2	Rod
	68	142-4605408	2	Cap
	69	142-4605401	2	Retainer
	70	1220-4605615	2	Yoke
	71	50-3503071	2	Washer
	72	A61.07.001	2	Spring forelock
	73	1220-4605084-01	2	Pin
74	1220-4605075	1	Screw	
75	1220-4605422	1	Stabilizer	
76	1220-4605424	1	Lock nut	
77	1220-4605620-Б	1	Yoke	
78	70-4605316	2	Nut	
79	5x36	2	Forelock	
80	1220-4605558	2	Reducing bushing (to 2 cat.)	
81	A61.05.100	2	Chock	
82	1220-4605108	2	Ear	
83	ШЧ 16	2	Washer	

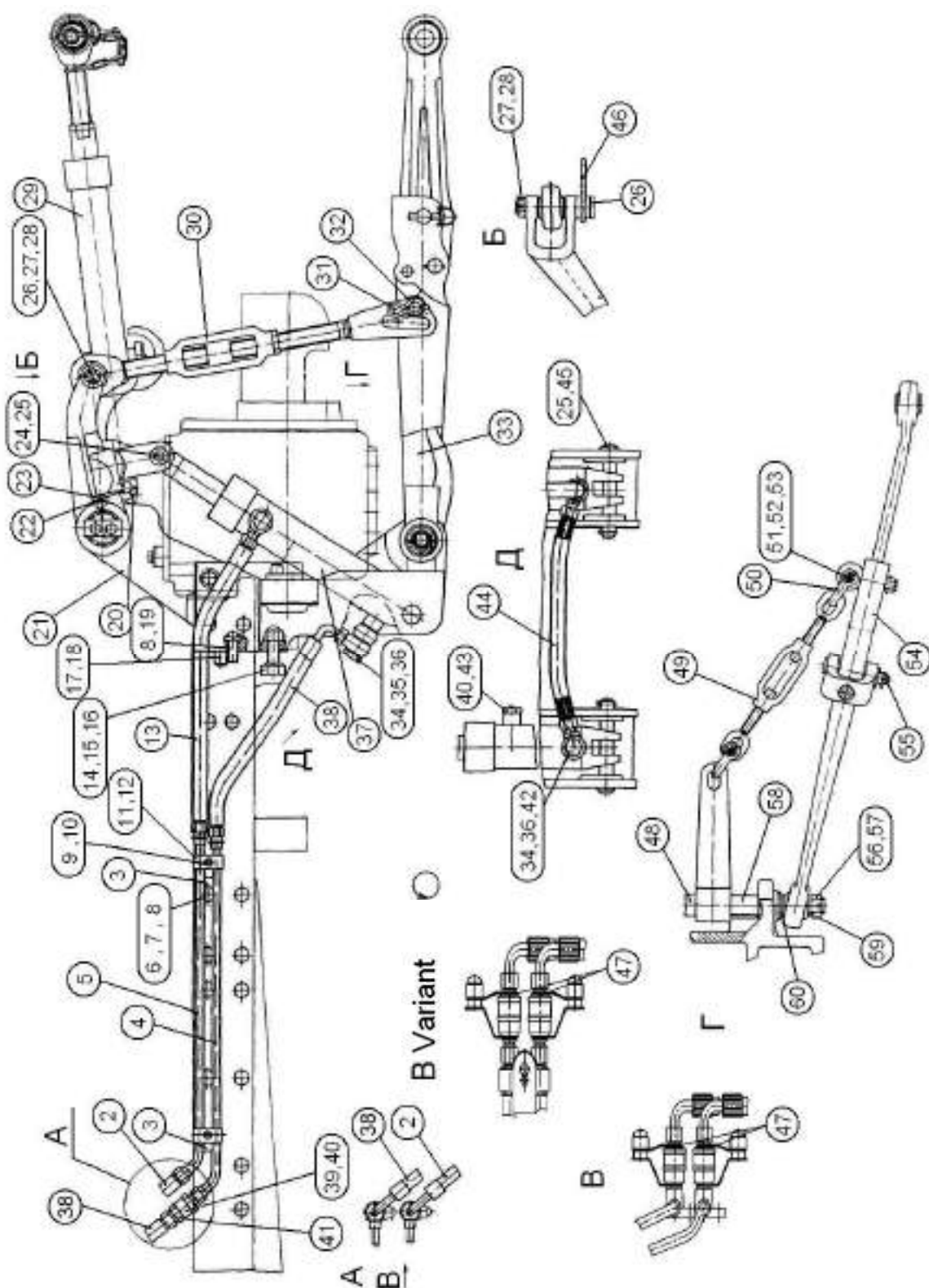


Fig. 46.3. Front lift linkage

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.3	2	680-4607140-04	1	High pressure hose Ø 10x1 armoured
	3	80-4607554	2	Bracket
	4	1522-4606550-01	1	Pipe
	5	1522-4606550	1	Pipe
	6	M16x50	2	Bolt
	7	M16	1	Nut
	8	ШП 16	10	Washer
	9	M8x35	2	Bolt
	10	ШП 8	2	Washer
	11	70-3407146	2	Plate
	12	70-3506027	4	Bushing
	13	H.036.83.140	1	High pressure hose Ø 12,5x2 armoured
	14	70-4605036	2	Bolt
	15	M20	2	Nut
	16	ШП 20	2	Washer
	17	50-4605027	4	Pin
	18	54.38.619	4	Lock ring
	19	M16x45	8	Bolt
	20	8x45	1	Pin
	21	1220-4606110	1	Bracket
	22	1220-4606014	1	Axis
	23	1.3.Ц9.xp	2	Oiler
	24	680-4605037	2	Pin
	25	5x36	4	Forelock
	26	50-4605076	2	Pin
	27	70-3003032	2	Nut
	28	4x36	2	Forelock
	29	1220-4606040-A	1	Upper link
	30	1220-4606150	2	Lifting rod
	31	A61.07.001	2	Forelock
	32	ШЧ 18	2	Washer
	33	50-4605030-A3-03	1	Rod
	34	40-4607038-A	7	Washer
	35	C80-4607332	1	Bolt
	36	530-4614029	4	Elbow
	37	4600.03	2	Hydraulic cylinder Ц63x40x200
	38	680-4607140-05	2	High pressure hose Ø 10x1 armoured
	39	K1221-4607023	1	Union body
	40	017-022-30-1-4	1	Ring
	41	H.036.65.000 A2-02	1	Reduction valve
	42	40-4607032	2	Clamp bolt
	43	H.036.77.000	1	Breather
	44	ПН.036.83.010	1	High pressure hose Ø 10x1 armoured
	45	680-4605037-01	2	Pin
	46	1220-4606090	1	Detent
	47	M 036.50Б.20	2	Right housing
	48	50-4605018-Б	1	Bushing

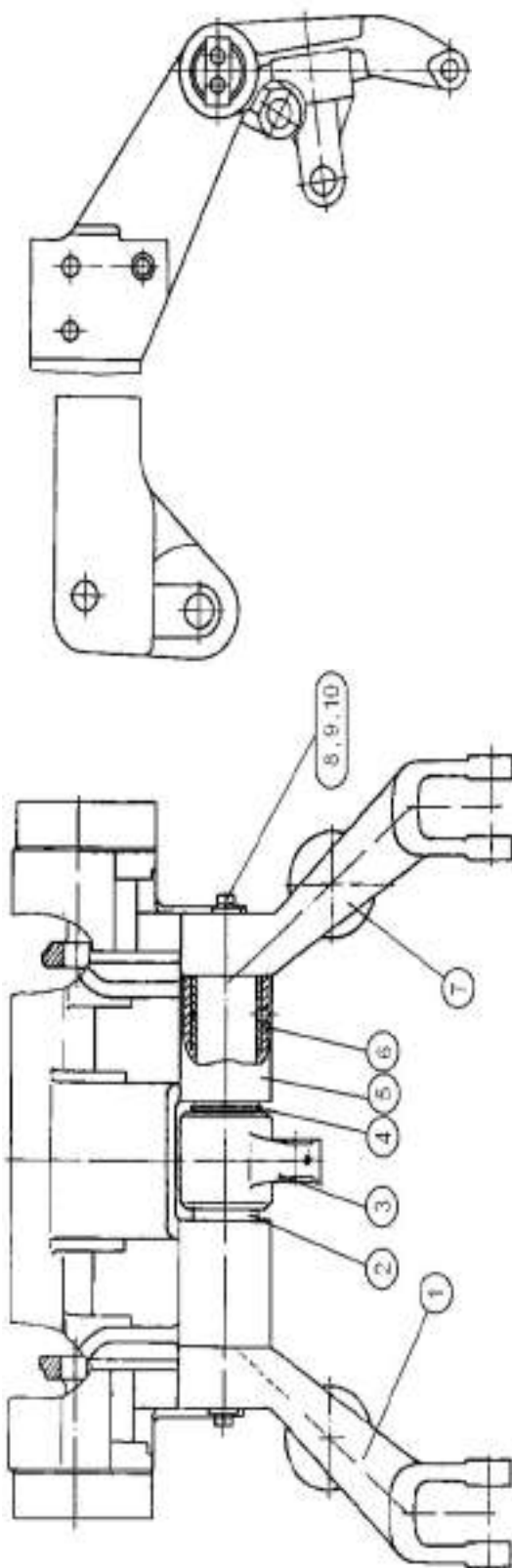


Fig. 46.4. Bracket

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

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

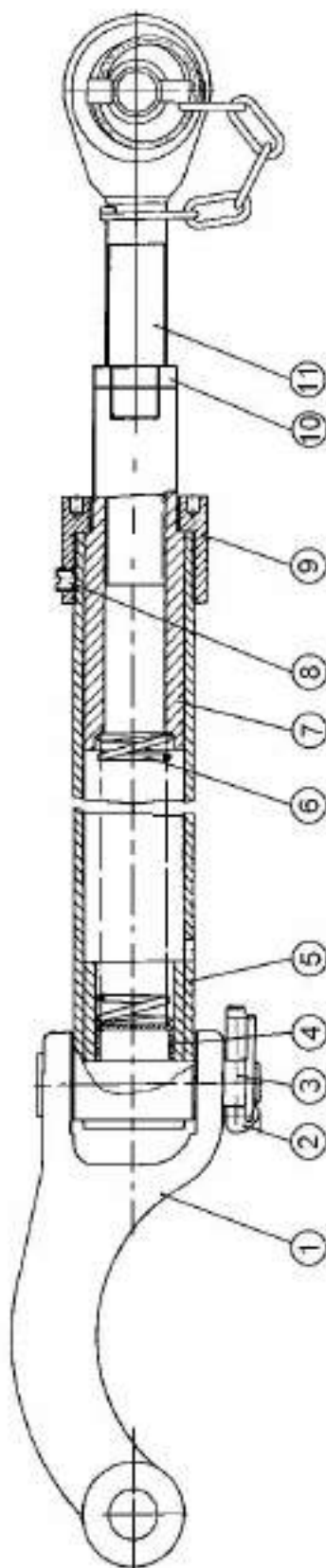


Fig. 46.5. Upper link

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

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

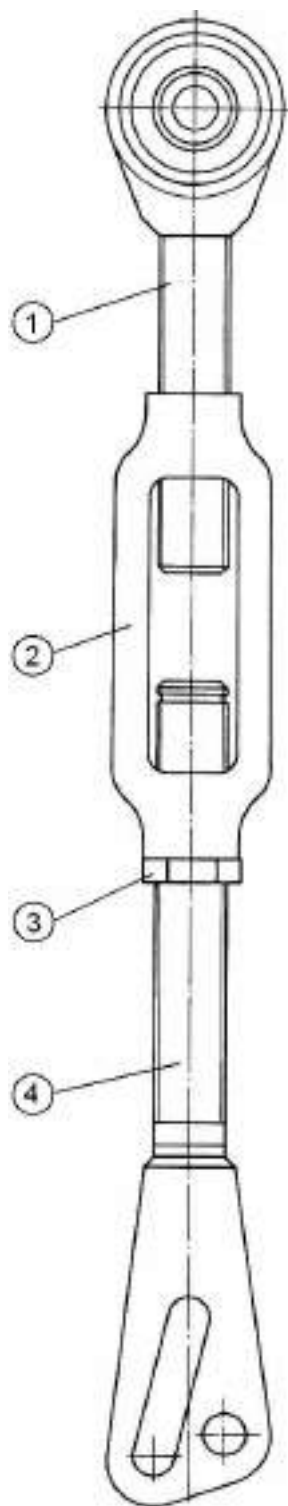


Fig. 46.6. Lifting rod

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

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

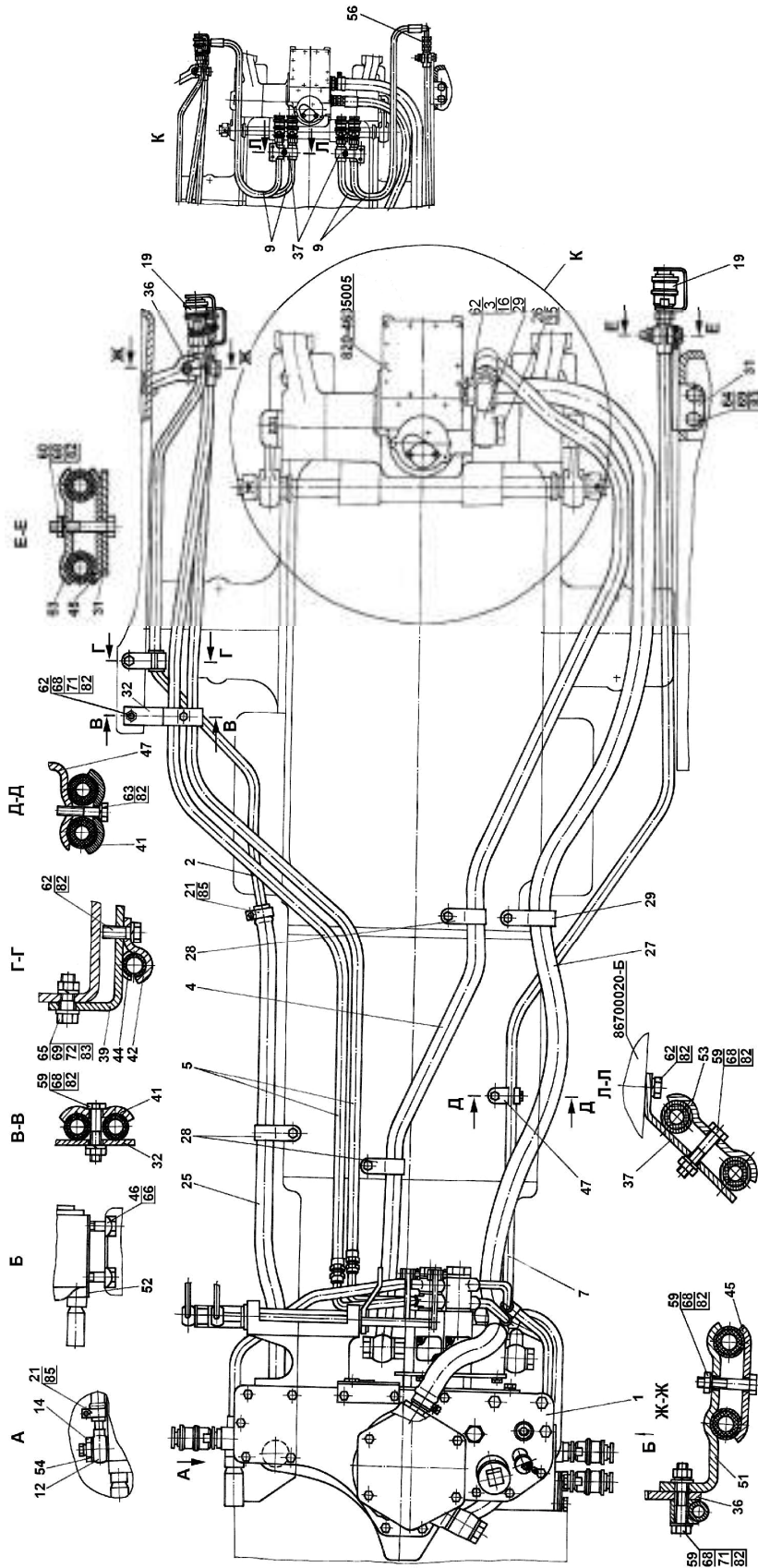


Fig. 46.7a. Hydraulic units and fittings

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
46.7a		M1221-4600010	1	Hydraulic system
	1	M1221-4600015	1	Hydraulic system housing
	2	K1221-4607125	1	Pipe
	3	85-4607034	1	Union body
	4	П80-4607120	1	High pressure hose ϕ 16x2 armoured
	5	П100-4607140-01	2	High pressure hose ϕ 10x1 armoured
	7	680-4607140-02	2	High pressure hose ϕ 10 x1 armoured
	12	C80-4607380	1	Pipe
	14	80-4607455	1	Bolt
	19	M036.50Б.10 or HP10-3MX0041AO	5 5	Left housing Coupling
	21		2	Clamp XC-21 or Clamp "NORMA" TORRO 16-25/9-C6W
	22		2	Clamp XC-31 or "NORMA" TORRO 25-40/9-C6W
	25	K1221-4607011	1	Hose
	26	40-4607037	1	Bolt
	27	П80-4607012	1	Hose
	28	П80-4607013	3	Clamp
	29	П80-4607013-01	1	Clamp
	30	П80-4607016	1	Union body
	31	M80-4607014	1	Bracket
	32	80B-4607209	1	Bracket
	35	40-4607033-A or PM24	2	Washer
	36	85-4607431	1	Bracket
	38	P1221-4607070	1	Union body
	39	1321-3407022	1	Bracket
	41	70-3407146	2	Plate
	42	70-3407163-01	1	Joke
	44	70-3506027	1	Bushing
	45	70-4607156	2	Plate
	46	70-4607168	2	Plate
	47	70-4607178	1	Bracket
	51	H50-4607137	1	Bracket
	52	50-4608049	1	Gasket
	53	40-4607029-A	3	Plate
	54	40-4607038-A or PM 1/2	2	Washer
	59		3	Bolt M8-6gx40.88.35.019 GOST 7795-70
	60		1	Bolt M8-6gx45.88.35.019 GOST 7795-70
	62		2	Bolt M8-6gx25.88.35.019 GOST 7796-70
	63		1	Bolt M8-6gx35.88.35.019 GOST 7796-70
	64		2	Bolt M10-6gx25.88.35.019 GOST 7796-70
	65		1	Bolt M10-6gx30.88.35.019 GOST 7796-70
	66		4	Bolt M14x1,5-6gx45.88.35.019 GOST 7796-70
68		5	Nut M8-6H.6.019 GOST 5915-70	
69		3	Nut M10-6H.6.019 GOST 5915-70	
71		3	Washer C 8.01.019 GOST 11371-78	

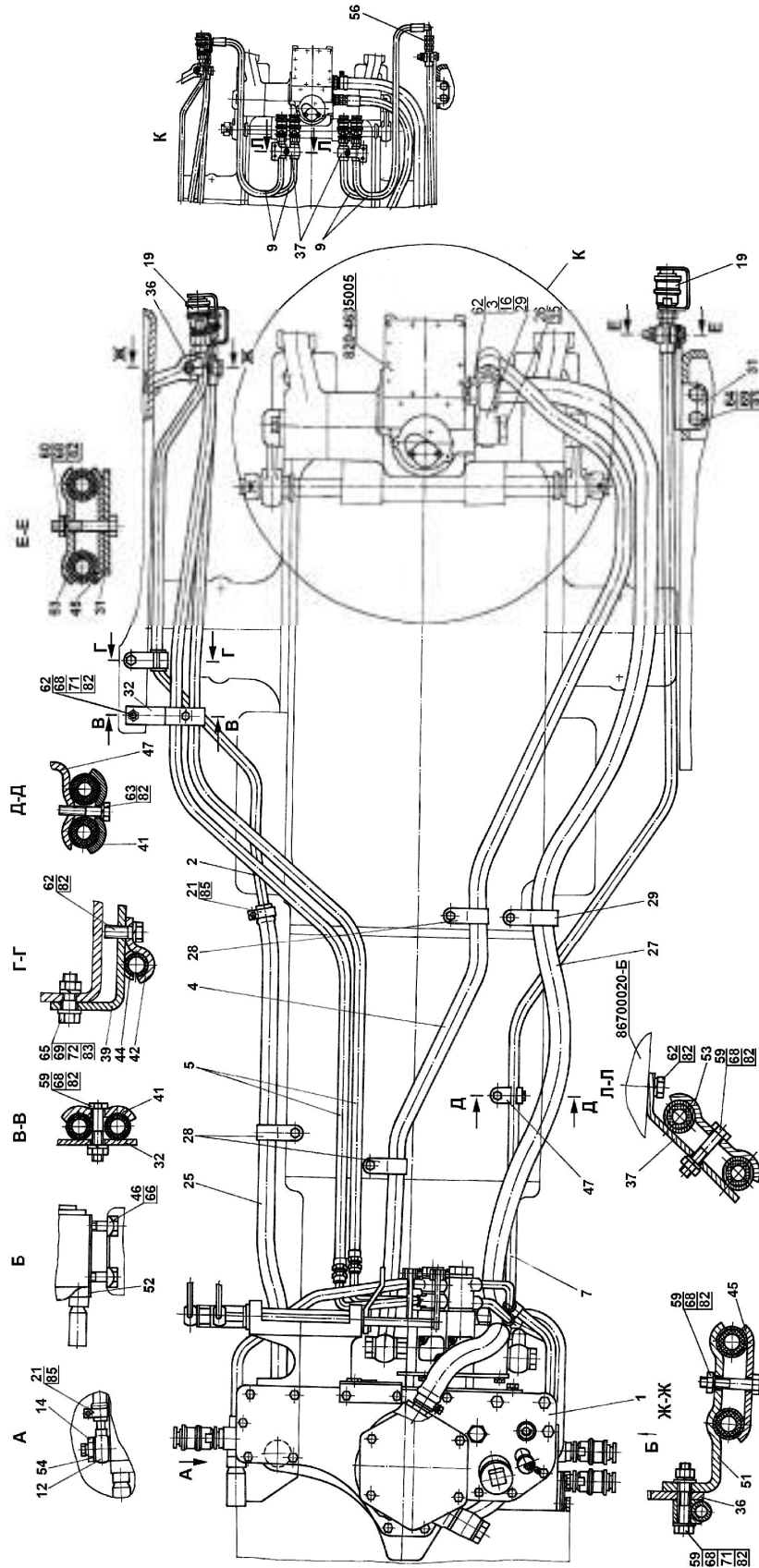


Fig. 46.7a. Hydraulic units and fittings

Group 46. Hydraulic system

Subgroup 4607. Hydraulic units and fittings

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

Optional equipment (upon request)

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

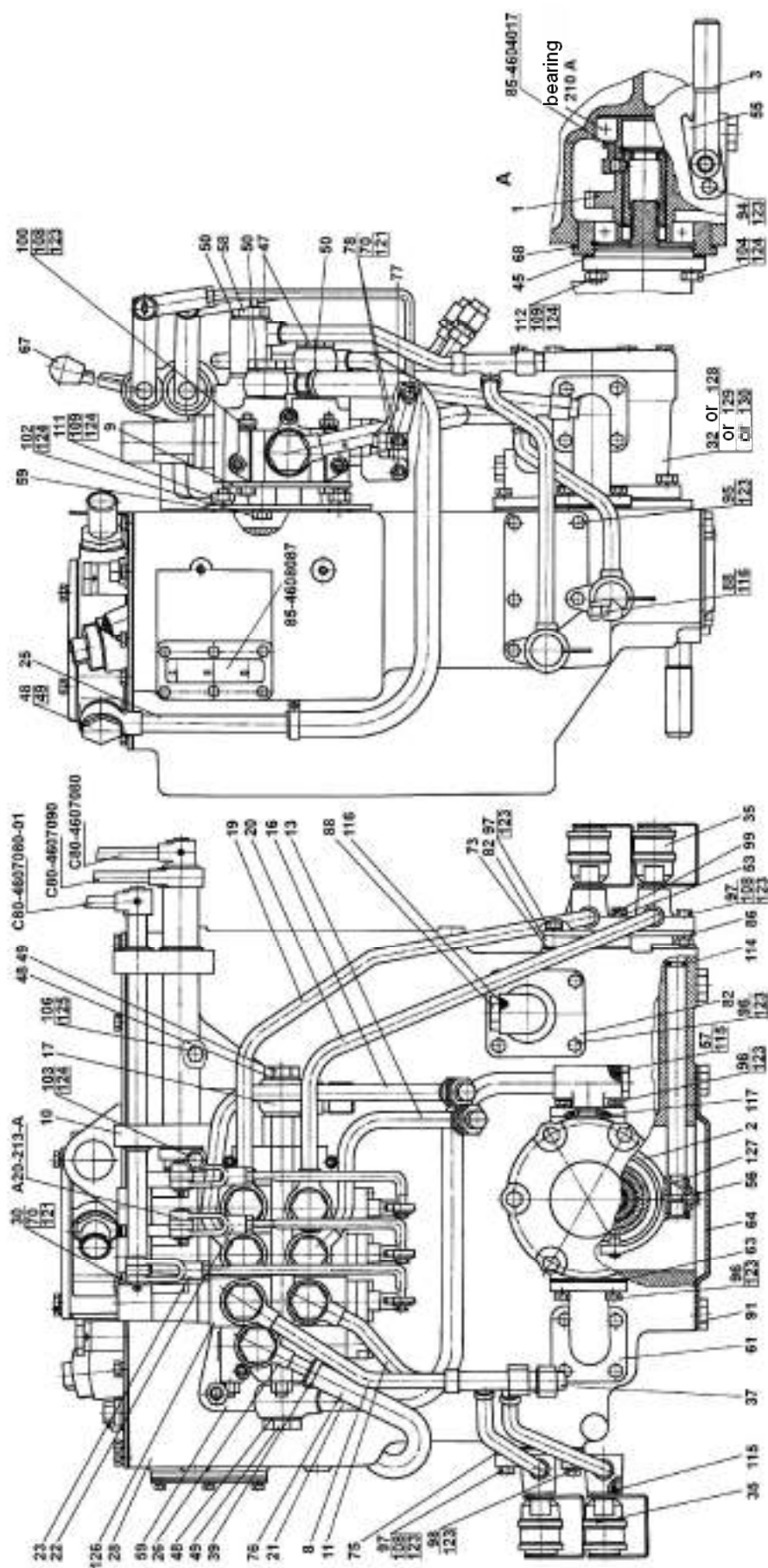


Fig. 46.76. Hydraulic units and fittings
Group 46. Hydraulic system

Subgroup 4607. Hydraulic units and fittings

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

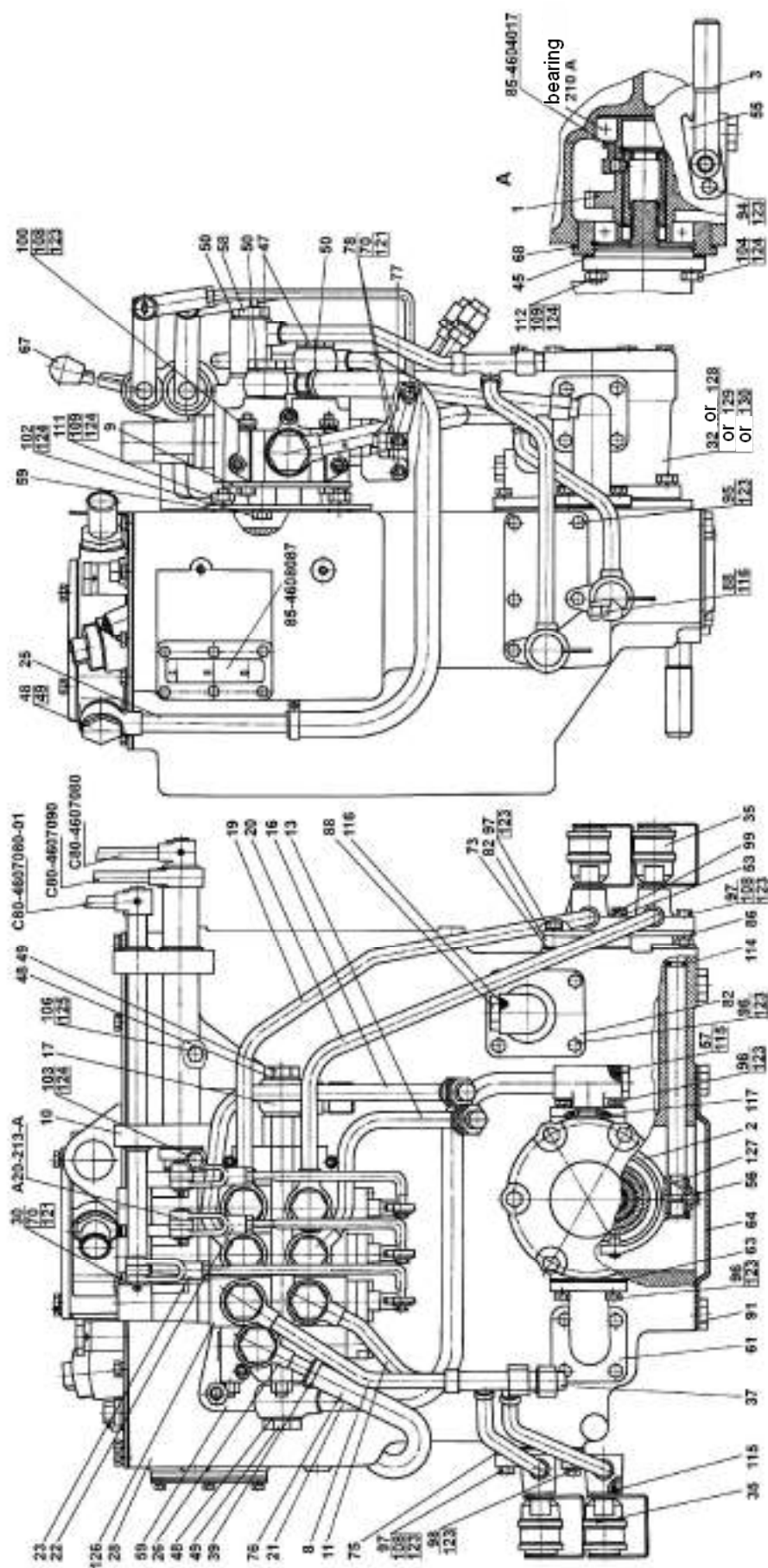


Fig. 46.76. Hydraulic units and fittings

Group 46. Hydraulic system

Subgroup 4607. Hydraulic units and fittings

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

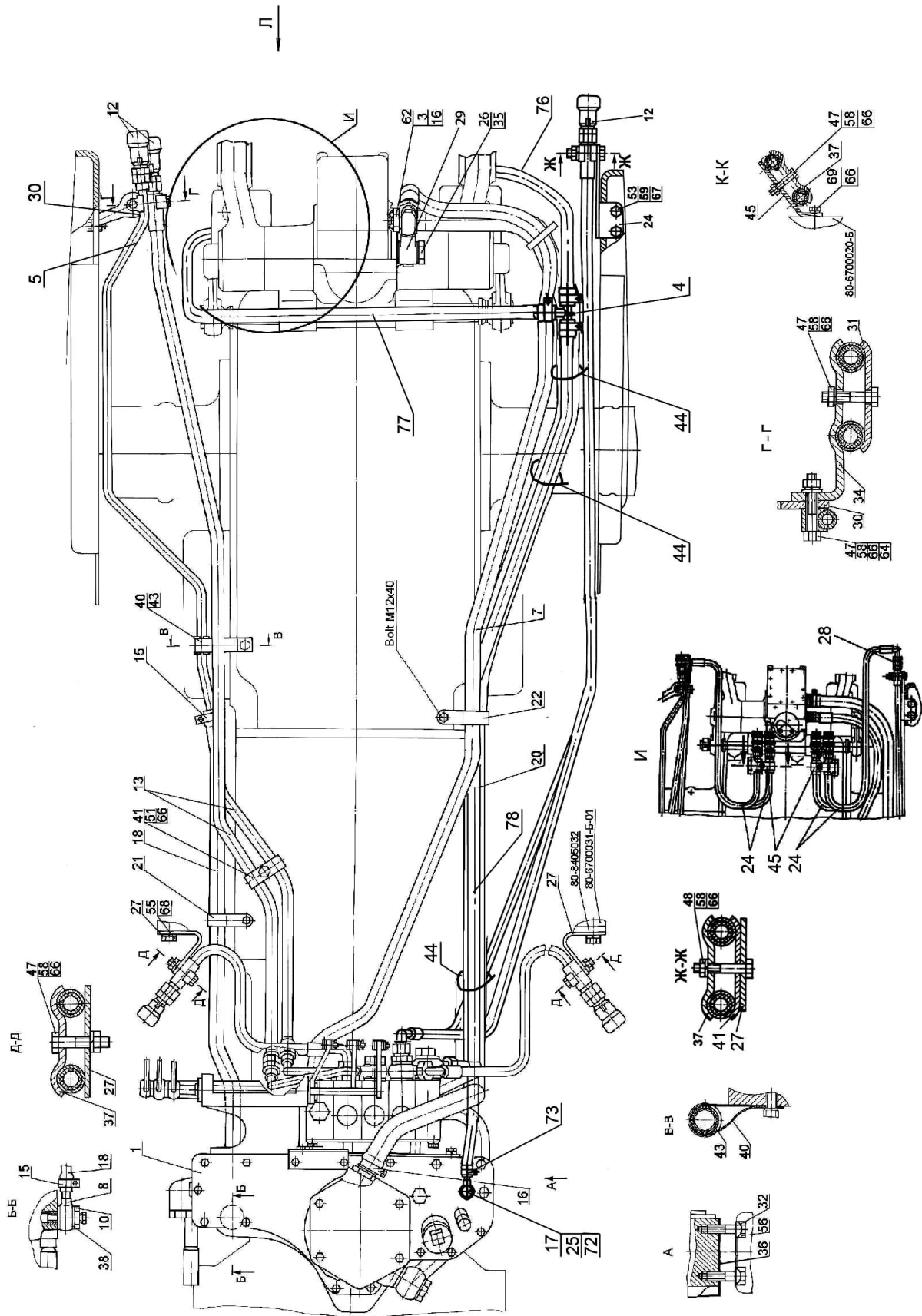


Fig. 46.7B. Hydraulic units and fittings

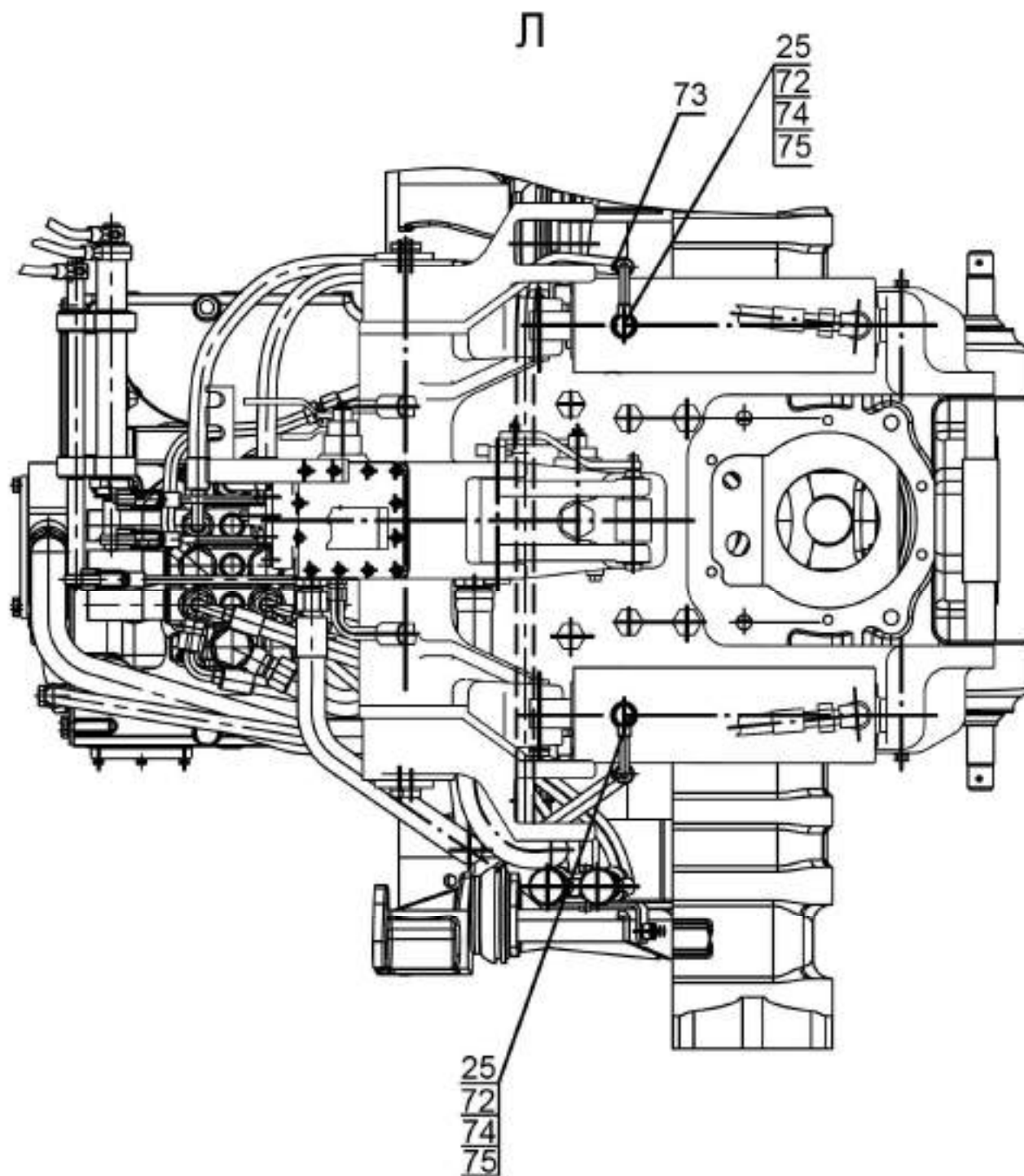


Fig. 46.7r. Hydraulic units and fittings

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

Fig.No	Pos.No	Designation	Q-ty	Name
46.7B		P1221-4600010	1	Hydraulic system
	46.7r			
	1	P1221-4600015	1	Hydraulic system housing
	3	85-4607034	1	Union body
	4	3022-4607120	1	Three-way pipe
	5	K1221-4607125	1	Pipe
	7	952-4607140-04	1	High pressure hose ϕ 16x2 armoured
	8	C80-4607380	1	Pipe
	10	80-4607455	1	Bolt
	12	M036.50Б.10 or HP10-3MX0041A0	3	Left housing Coupling
	13	П100-4607140-01	2	High pressure hose ϕ 10x1 armoured
	15		2	Clamp XC-21 or "NORMA" TORRO 16-25/9-C6W
	16		2	Clamp XC-31 or "NORMA" TORRO 25-40/9-C6W
	17	ϕ 80-3407720	1	Oil pipeline
	18	K1221-4607011	1	Hose
	20	П80-4607012	1	Hose
	21	П80-4607013	1	Clamp
	22	П80-4607013-01	2	Clamp
	25	Д18-051	3	Bolt
	26	40-4607037	1	Bolt
	27	M80-4607017	2	Bracket
	29	P1221-4607070	1	Union body
	30	85-4607431	1	Bracket
	31	70-4607156	1	Plate
	32	70-4607168	2	Plate
	34	H50-4607137	1	Bracket
	35	40-4607033-A or PM 24	2	Washer
	36	50-4608049	1	Gasket
	37	40-4607029-A	3	Plate
	38	40-4607038-A or PM 1/2	2	Washer
	40	70-1405112	1	Clamp
	41	70-3407146	1	Plate
	43	70-3506027	1	Bushing
	44	80-3723045-01	4	Collar
	48		1	Bolt M8-6gx45.88.35.019 GOST 7795-70
	51		2	Bolt M8-6gx35.88.35.019 GOST 7796-70
	55		1	Bolt M12-6gx30.88.35.019 GOST 7796-70
	56		4	Bolt M14x1,5-6gx45.88.35.019 GOST 7796-70
	62		1	Ring 027-032-30-1-4 GOST 18829-73/9833-73
	64		1	Washer C 8.01.019 GOST 11371-78
	68		1	Washer 10 OT OST 37.001.115-75
		M036.50Б.20 or HP10-4MX0041A0 or	6	Right housing Attaching plug
				} (packed into SPTA kit)

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

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

Optional equipment (upon request)

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

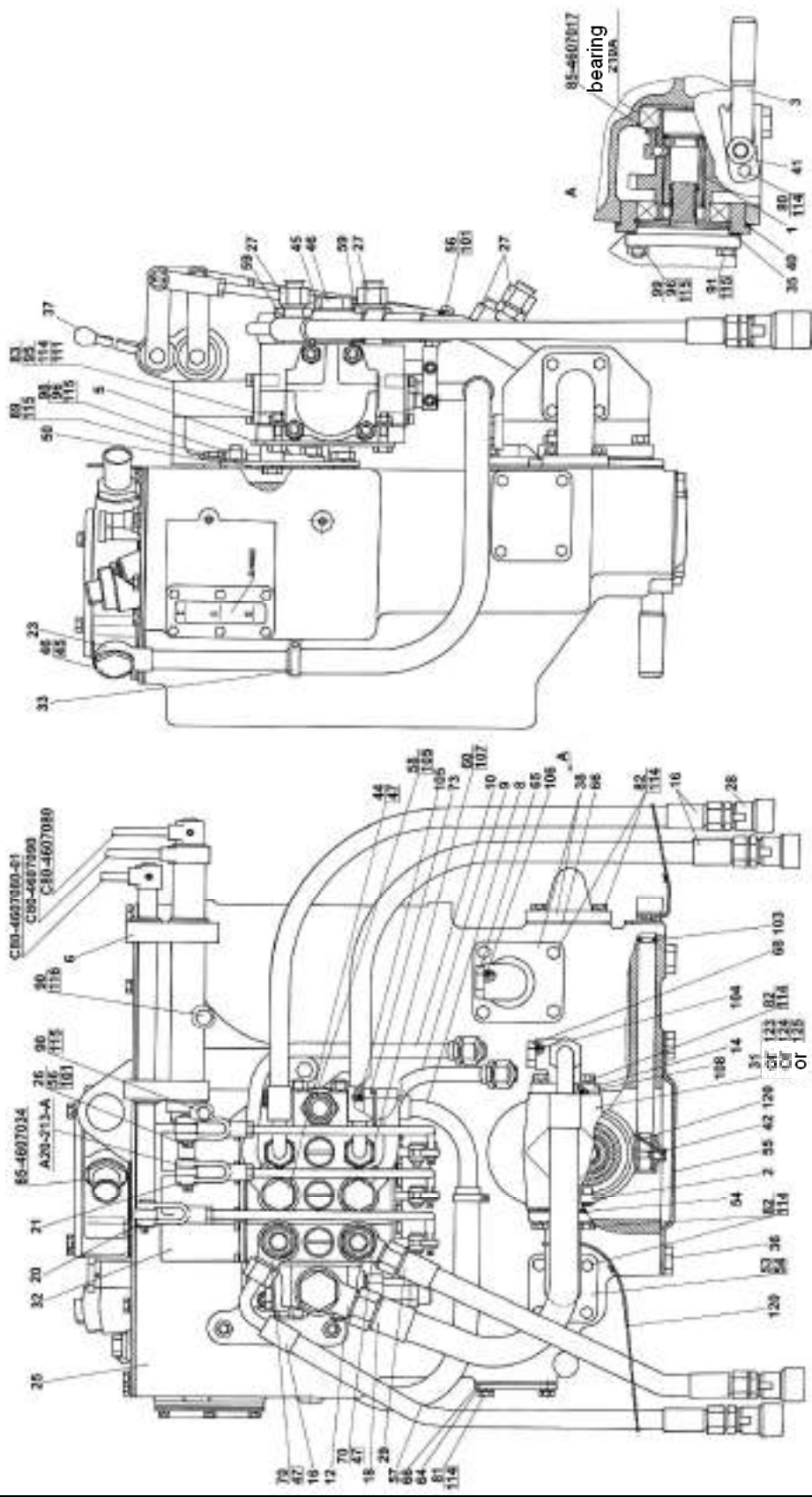


Fig. 46.7д. Hydraulic units and fittings

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

Fig.No	Pos.No	Designation	Q-ty	Name
46.7д		P1221-4600015	1	Hydraulic system housing
	1	80-4604010	1	Pump drive
	2	85-4604030	1	Yoke
	3	85-4604040	1	Disengaging lever
	5	P1221-4607030	1	Bracket
	6	80-4607040-04	1	Bracket
	8	P1221-4607050	1	Pipe
	9	85-4607060-Б	1	Pipe
	10	85-4607080-Б	1	Pipe
	12	952-4607080	2	Union body
	14	Д80-4607100	1	Tube
	16	680-4607140-04	1	High pressure hose φ10x1 armoured
	18	952-4607140	1	High pressure hose φ16x2 armoured
	20	P1221-4607260	1	Rod
	21	P1221-4607260-01	2	Rod
	23	80В-4607375	1	Pipe
	25	85-4608010	1	Hydraulic system housing
	26	A61-030-A1	3	Pin
	27	H.036.12.010	4	Blind plug
	28	M036.50Б.10	4	Left housing
	29	ПН.036.83.040	3	High pressure hose φ10x1 armoured
	31	НШ32М-3 or НШ32МА-3 or НШ32Д-3 or НШ32УКФ-3	1	Gear-type pump
	32	РП70-1221	1	Distributor
	33		2	Clamp XC-26 or "NORMA" TORRO 25-40/9-C6W
	35	36-1022054-A	1	Gasket
	37	70-3401093	3	Lever tip
	38	85-3407101	2	Tube
	40	70-4604037	1	Gasket
	41	50-4604044	1	Plate
	42	50-4604046	1	Yoke bolt
	44	40-4607032	4	Clamp bolt
	45	40-4607033-A or PM 24	6	Washer
	46	40-4607037	3	Bolt
	47	40-4607038-A or PM 1/2	12	Washer
	50	50-4607032-Б	1	Bracket
	53	50-4607096-A	1	Tube
	54	50-4607097	4	Gasket
	55	50-4607099	1	Cover
	56	70-4607144	6	Washer
	57	M80-4607011	1	Hose
	59	952-4607061	2	Union body
	64	70-4608019	1	Cover
65	85-4608021	2	Plug	
66	70-4608033	3	Gasket	
68	50-4608027-В	1	Plug	
70	530-4614029	4	Elbow	
73	H.036.04.011	1	Mail pipe adapter	
80		2	Bolt M8-6gx16.88.35.019 GOST 7796-70	
81		4	Bolt M8-6gx20.88.35.019 GOST 7796-70	
82		20	Bolt M8-6gx25.88.35.019 GOST 7796-70	

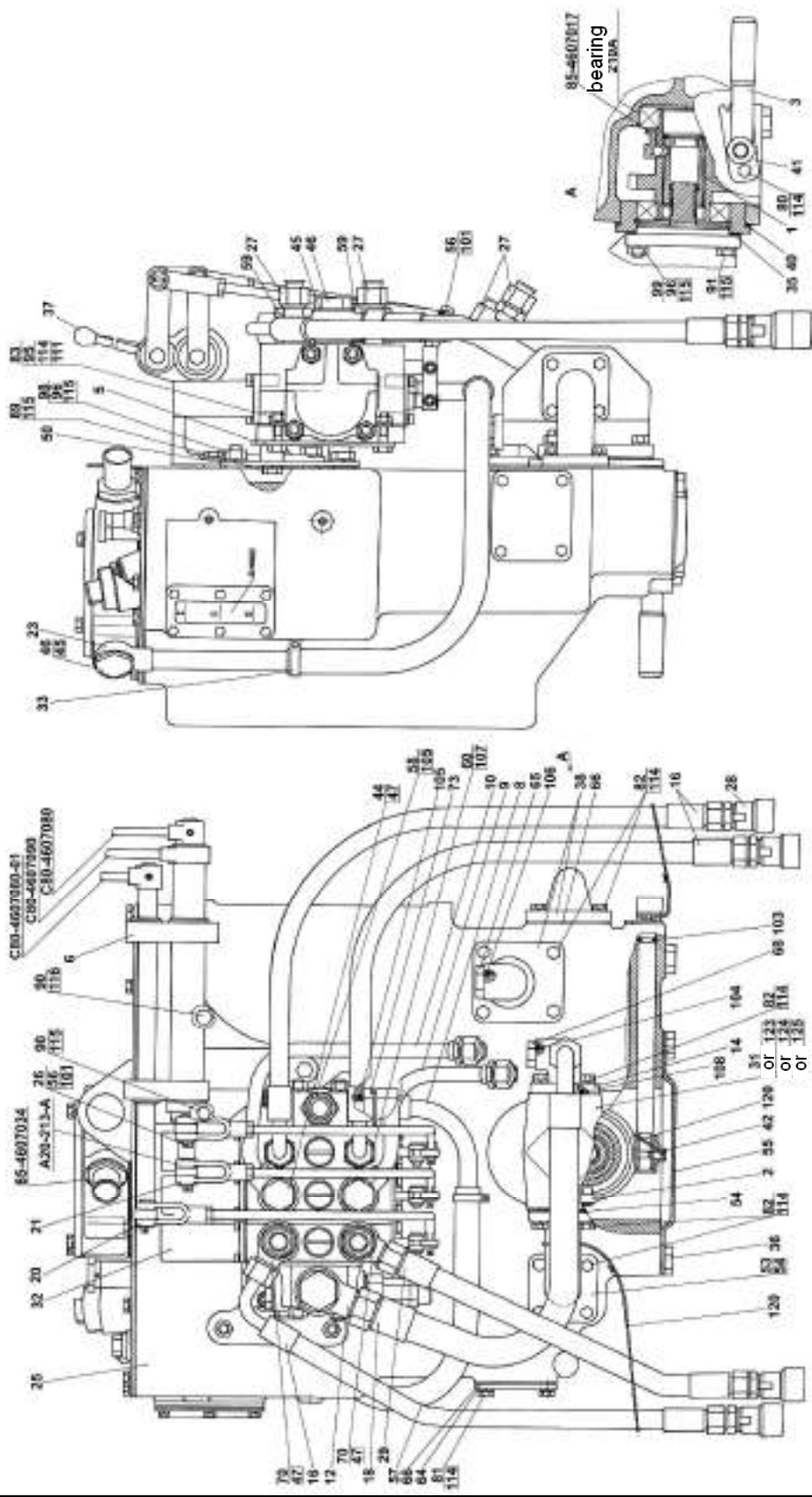


Fig. 46.7д. Hydraulic units and fittings

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

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

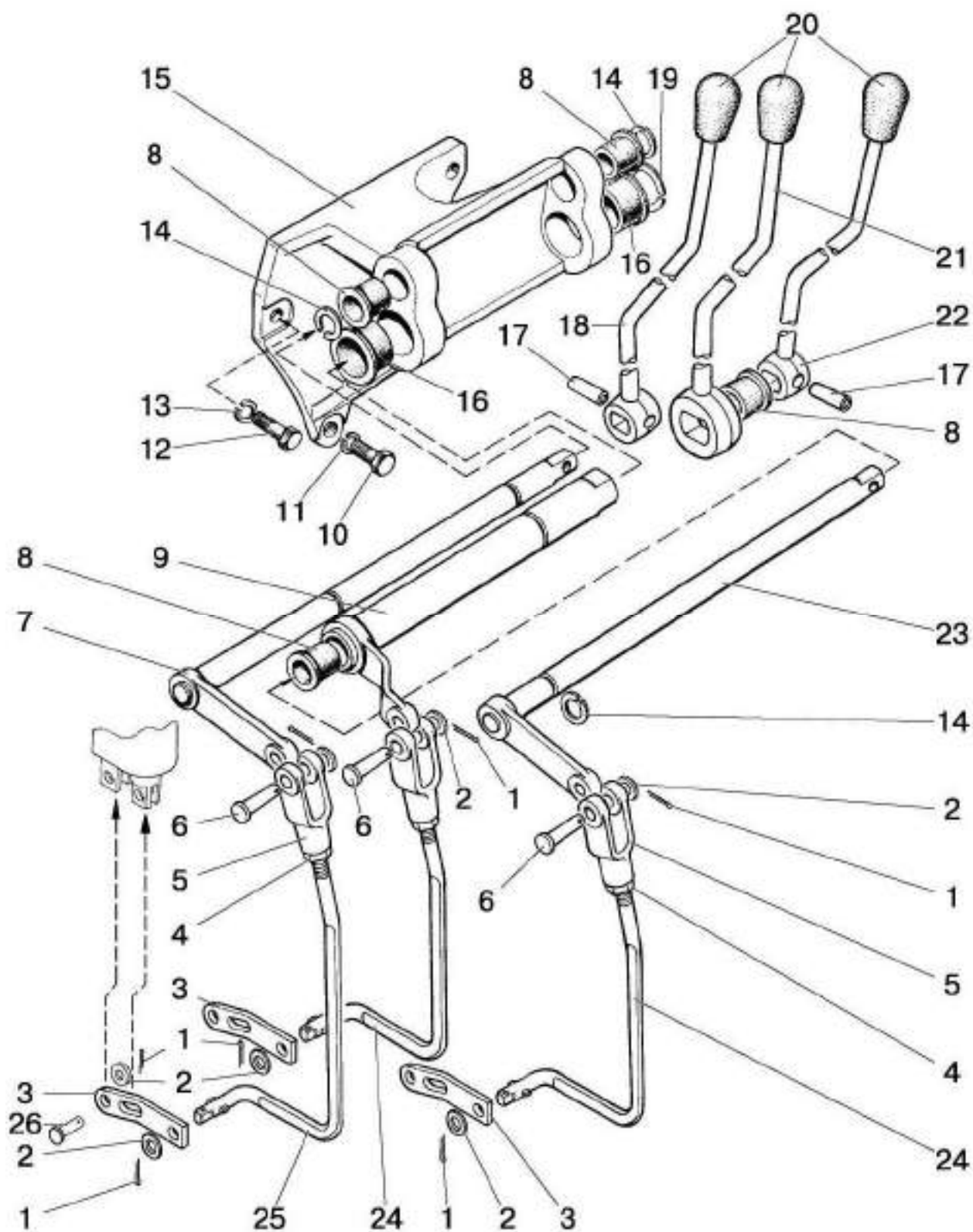


Fig. 46.8. Hydraulic distributor valve control (ПП70, RS 213 Mita)

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

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

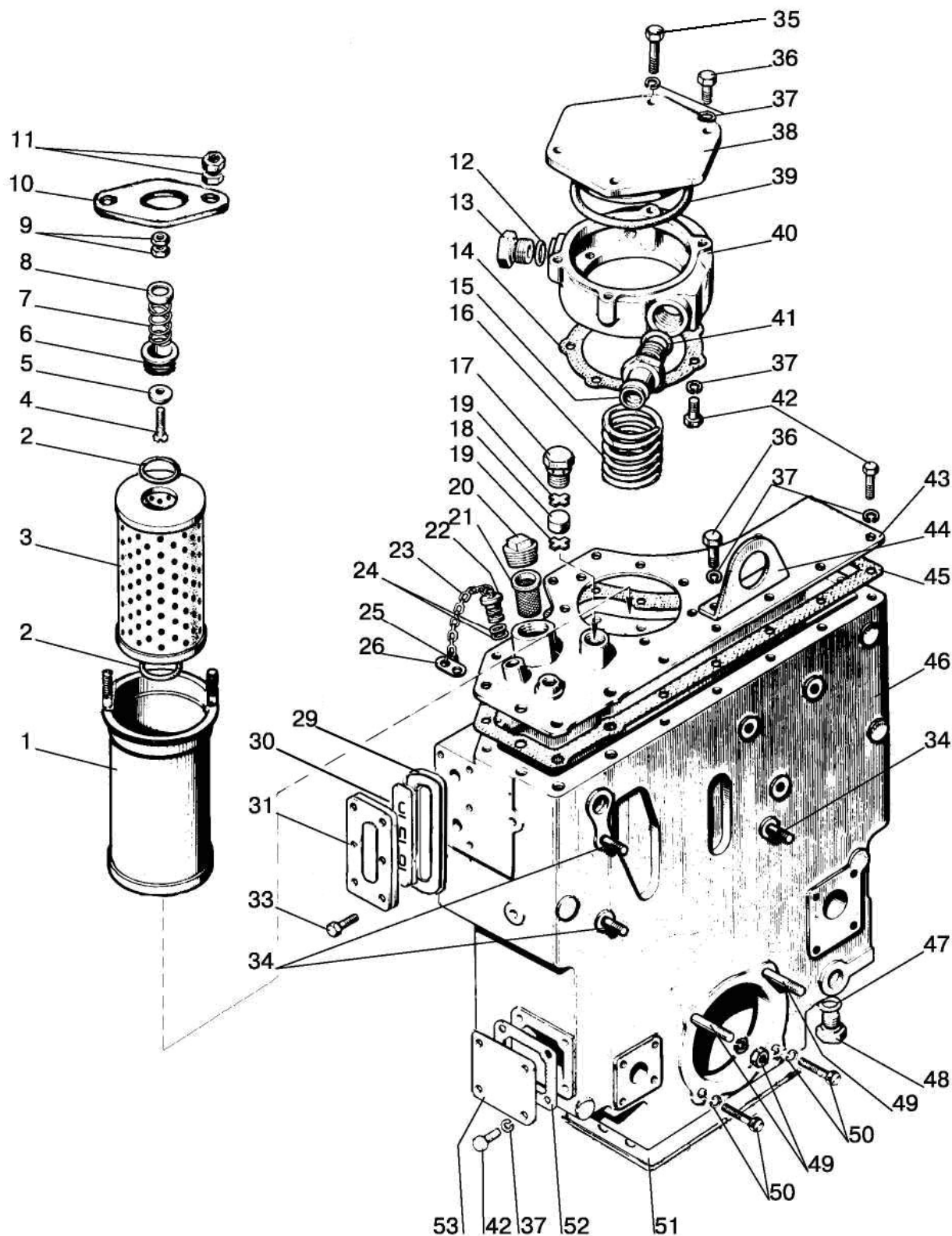


Fig. 46.9. Housing and filter of hydraulic system

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

Fig.No	Pos.No	Designation	Q-ty	Name
46.9		85-4608010	1	Hydraulic system housing (1-49, 53, 54)
		85-4608090	1	Valve (22-26)
		A28.04.10.000	1	Valve (4-9)
	1	A28.04.20.000-A1	1	Housing
	2		2	Ring 042-050-46-2-4 GOST 18829-73/GOST 9833-73
	3	ЭФ0М635-1 or ФЭГ3-25	1	Filtering element Regotmas 635-1
	4		1	Screw B.M6-6gx40.58.019 GOST 17475-80
	5	8.20.004	1	Valve
	6	A28.04.10.001	1	Valve housing
	7	8.20.002	1	Spring
	8	8.20.005	1	Washer
	9		2	Nut M6-6H.6.019 GOST 5915-70
	10	A28.04.00.001	1	Retainer
	11		4	Nut M6-6H.6.019 GOST 5915-70
	12	PM 24 or 40-4607033-A	1	Washer
	13	85-4608021	1	Plug
	14	85-4608089	1	Gasket
	15	85-4607034	1	Union body
	16	85-4608057	1	Spring
	17	50-4608059	1	Breather plug
	18	50-4608063	1	Filter
	19	50-4608062	2	Breather washer
	20	КГ 11/4"	1	Plug
	21	A61-C06-A3	1	Filter
	22	85-4608091	1	Valve
	23	50-1002450	1	Chain
	24		2	Ring 011-015-25-2-4 GOST 18829-73/GOST 9833-73
	25	36-1101067	2	Ring
	26	50-3407069	1	Chock
	29	85-4608086-Б	1	Seal
	30	85-4608087-Б	1	Indicator
	31	85-4608088-Б	1	Housing
	33		6	Bolt M6x20 DIN EN 1665-98
	34		3	Stud M10 3p/6gx20.66.019 GOST 22034-76
	35		1	Bolt M8-6gx80.88.35.019 GOST 7795-70
	36		5	Bolt M8-6gx25.88.35.019 GOST 7796-70
	37		30	Washer 8T OST 37.001.115-75
	38	85-4608022	1	Cover
	39		1	Ring 130-135-30-1-4 GOST 18829-73/GOST 9833-73
	40	85-4608018	1	Sleeve
	41		1	Ring 027-032-30-1-4 GOST 18829-73/GOST 9833-73
	42		23	Bolt M8-6gx20.88.35.019 GOST 7796-70
	43	85-4608025	1	Cover
	44	80-4608073	1	Bracket
	45	85-4608031-Б	1	Gasket
	46	85-4608016-A	1	Hydraulic system housing

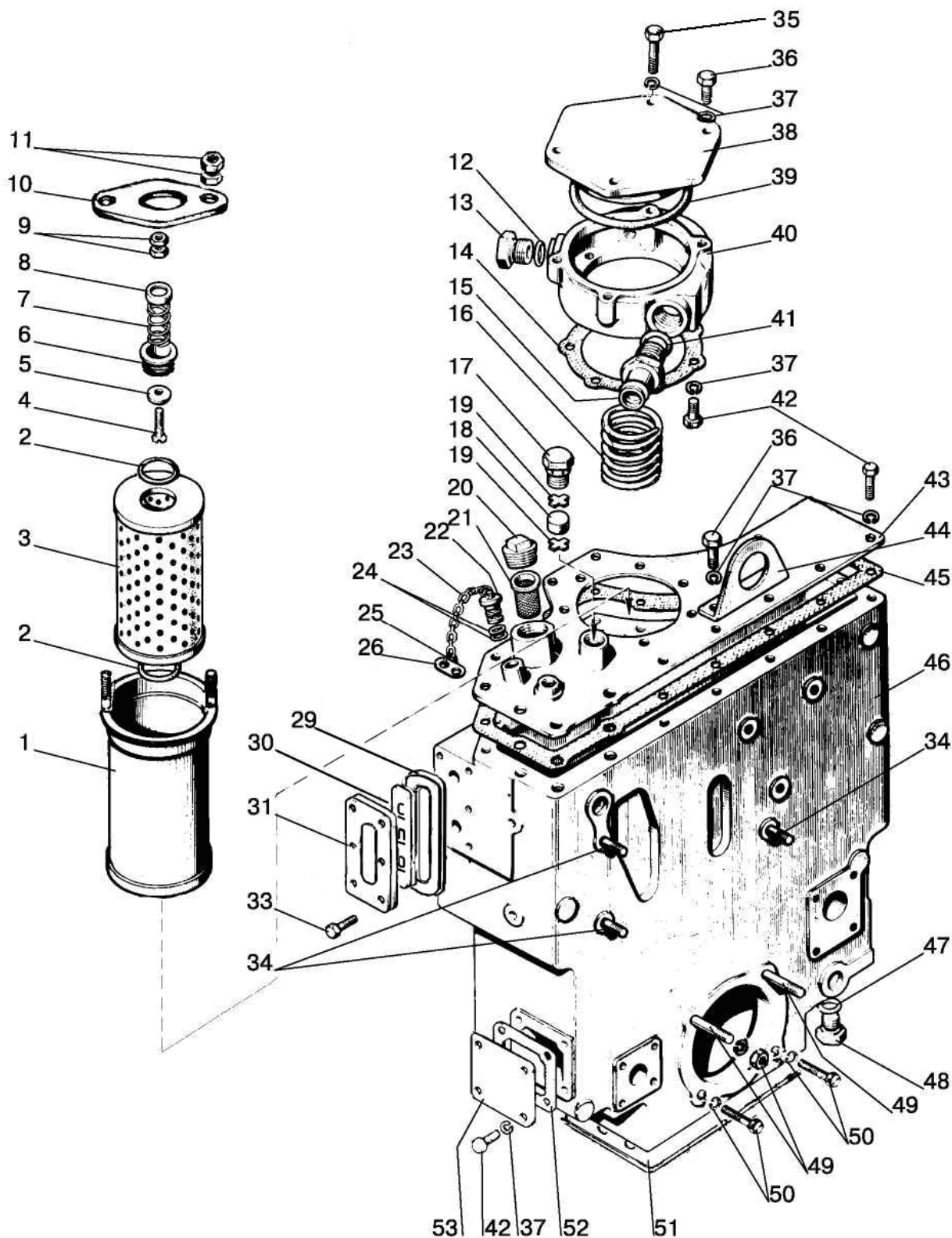


Fig. 46.9. Housing and filter of hydraulic system

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

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

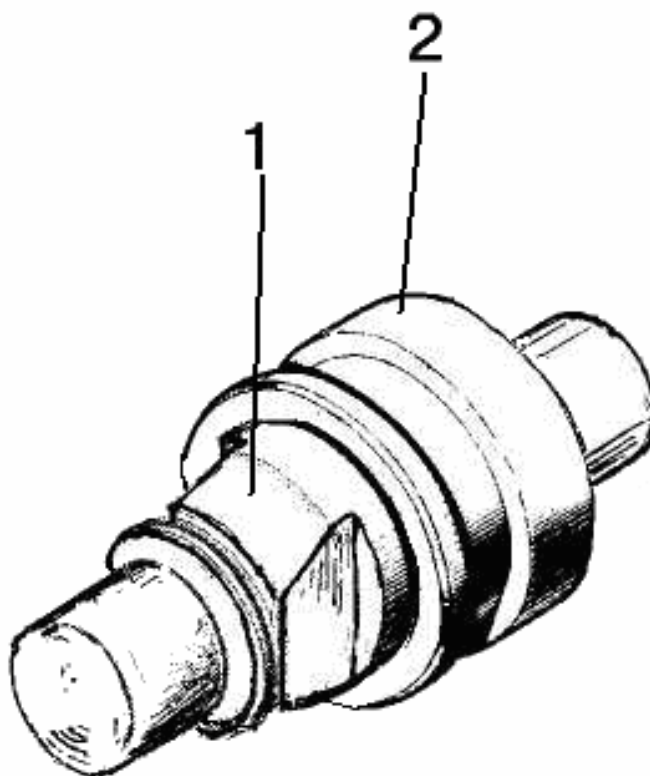


Fig. 46.10. Fast coupling

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

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

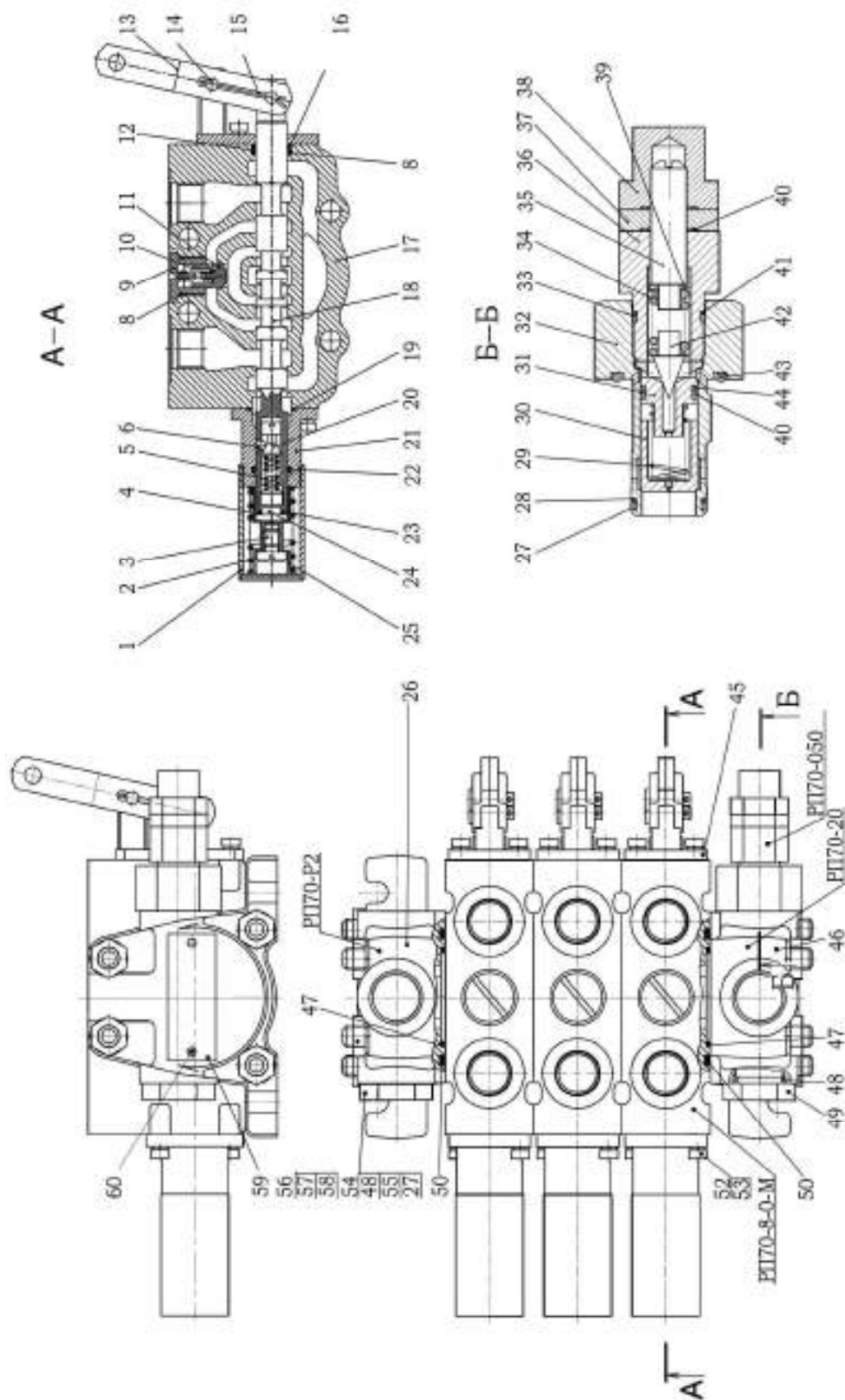


Fig. 46.11. Hydraulic distributor valve PП70

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

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

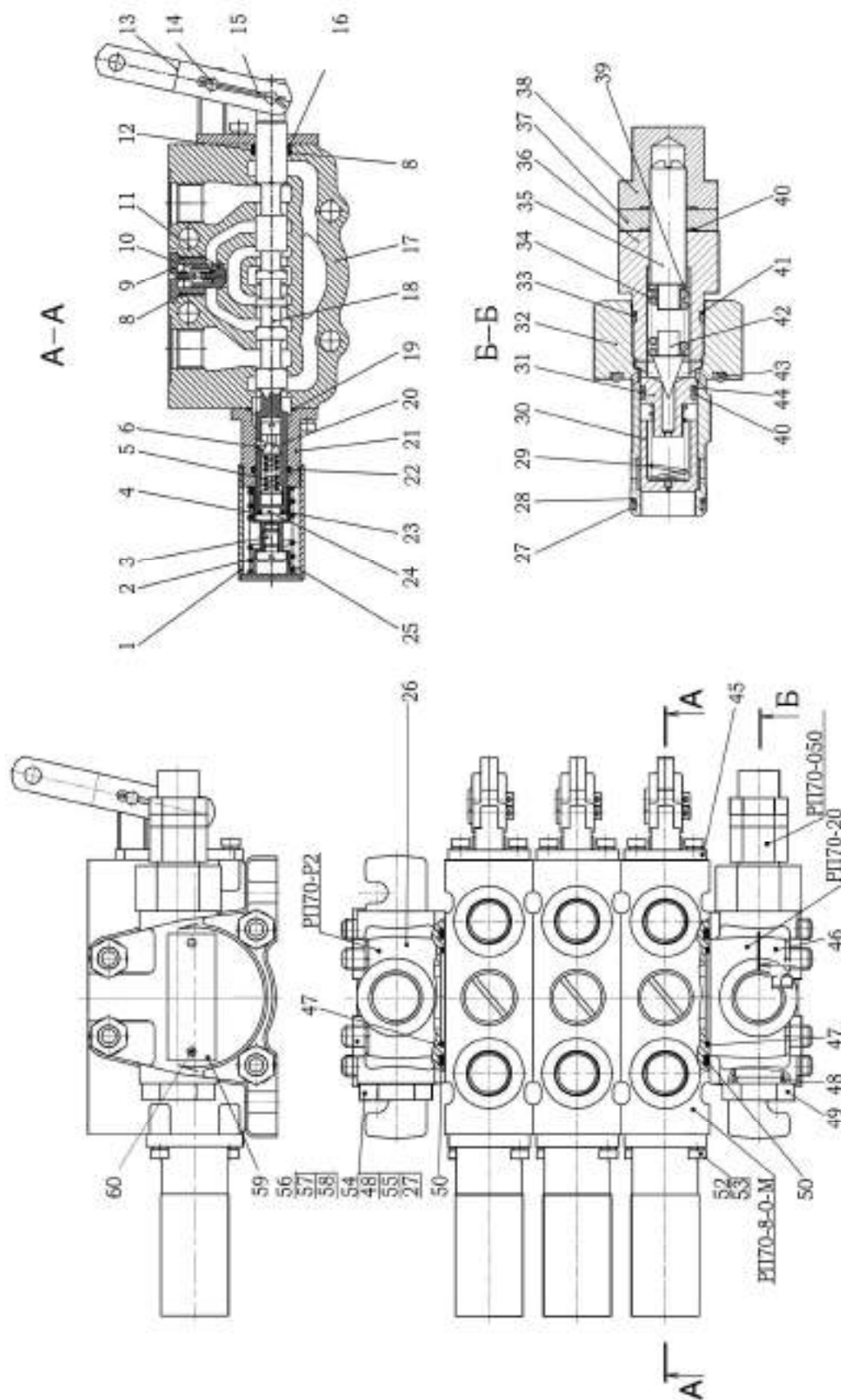


Fig. 46.11. Hydraulic distributor valve PП70

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

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

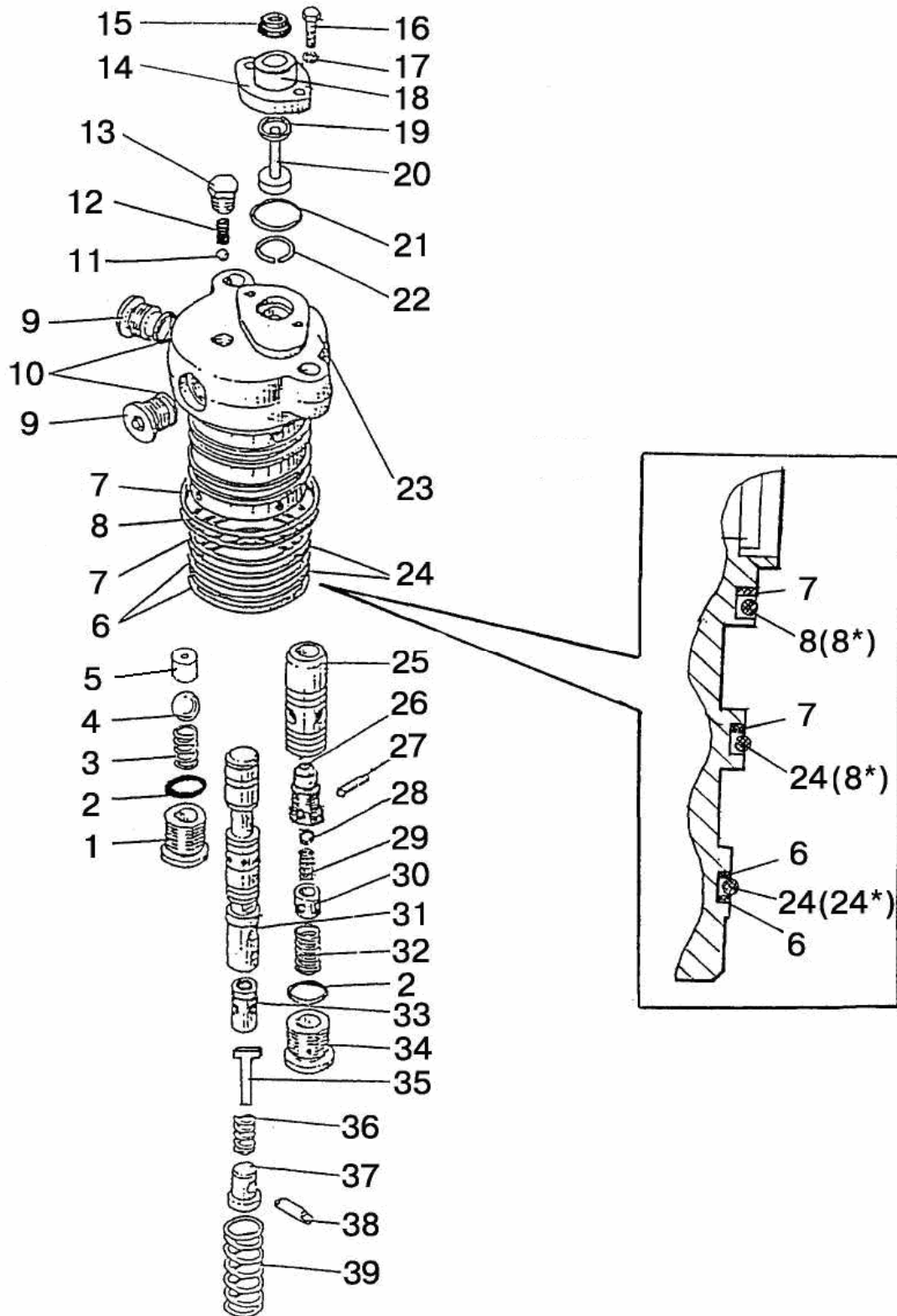


Fig. 46.12. Hydraulic hoist distributor

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

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

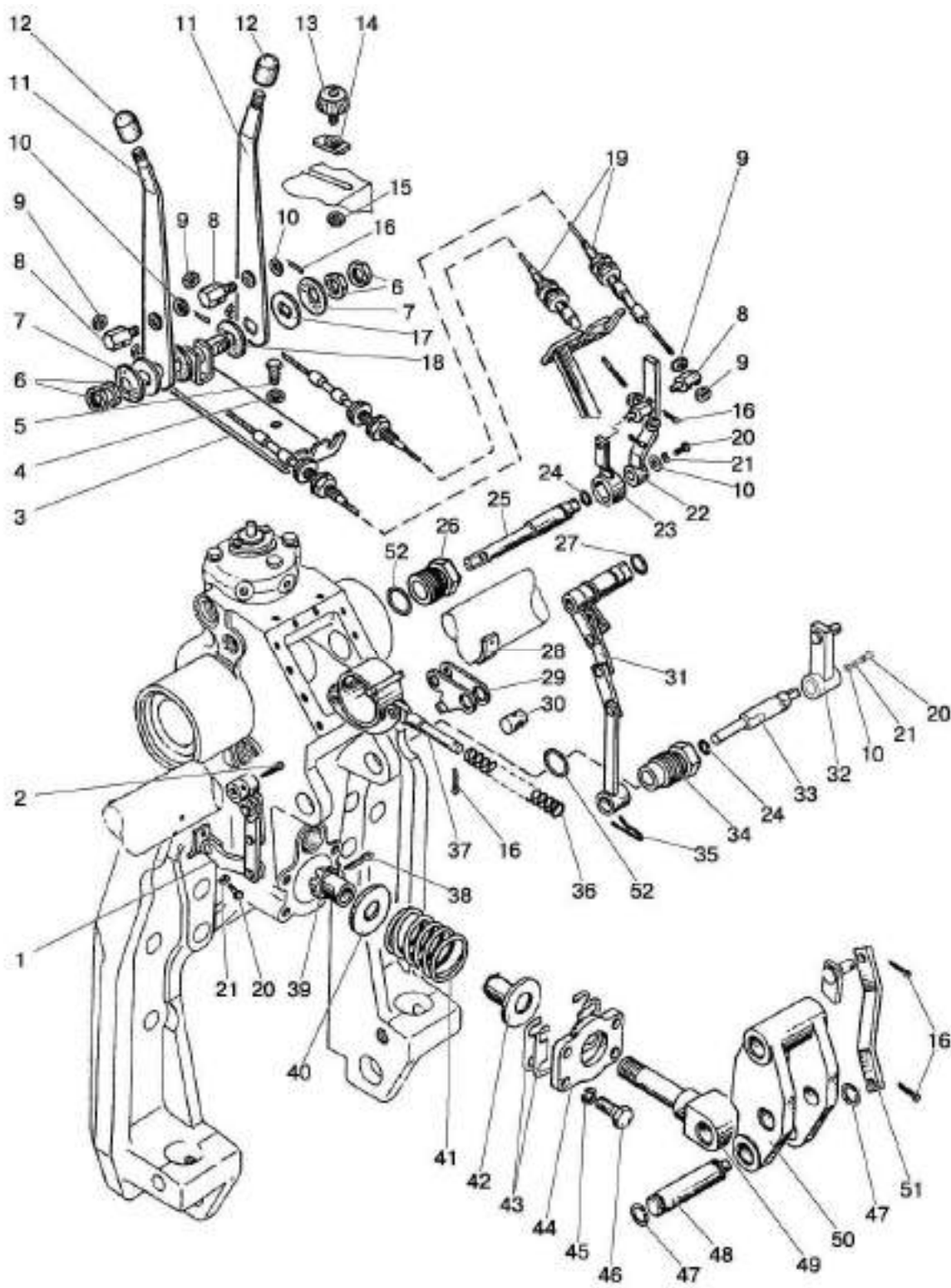


Fig. 46.13. Hydraulic hoist control

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

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

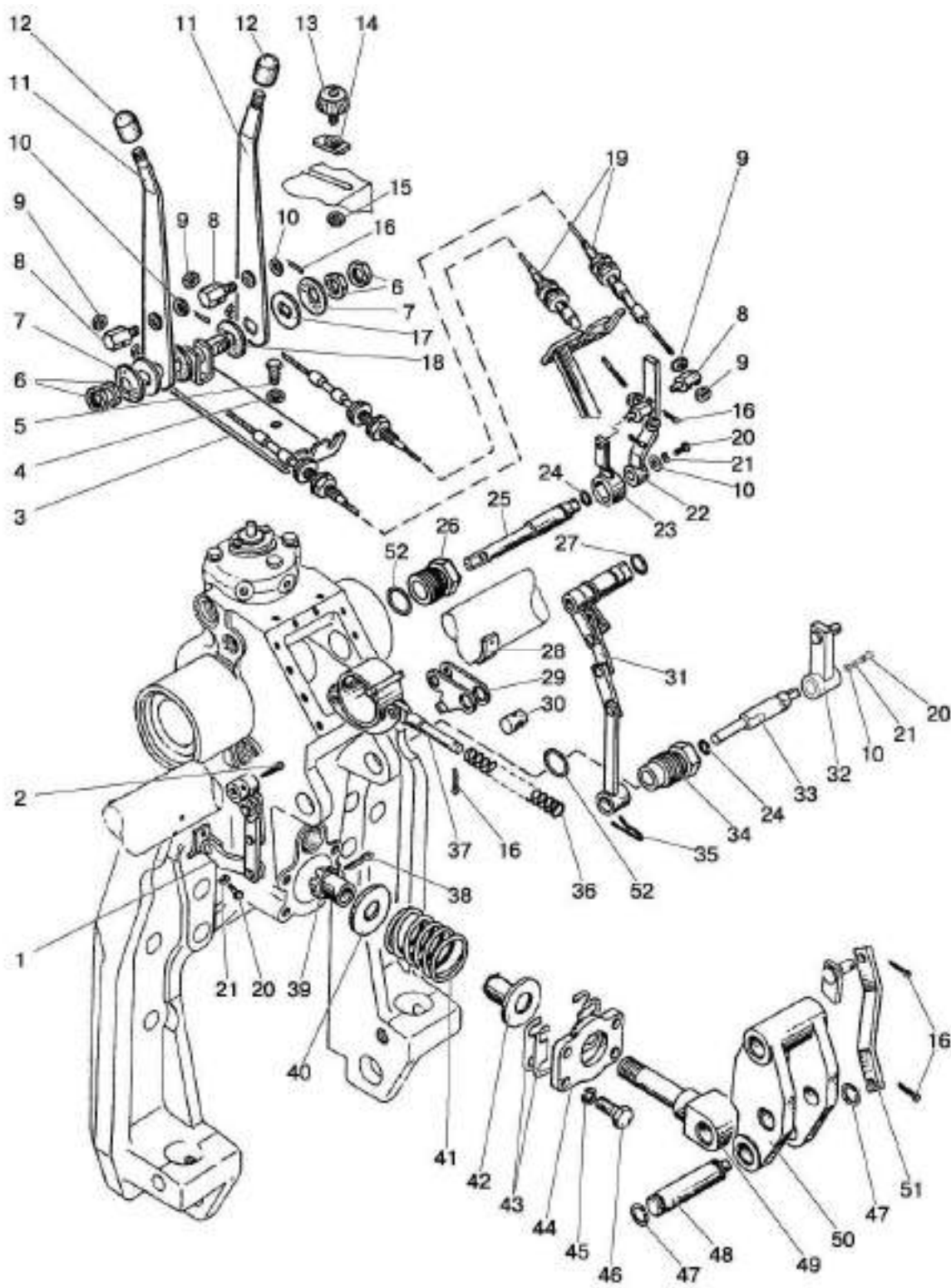


Fig. 46.13. Hydraulic hoist control

Group 46. Hydraulic system
Subgroup 4635. Hydraulic hoist control

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

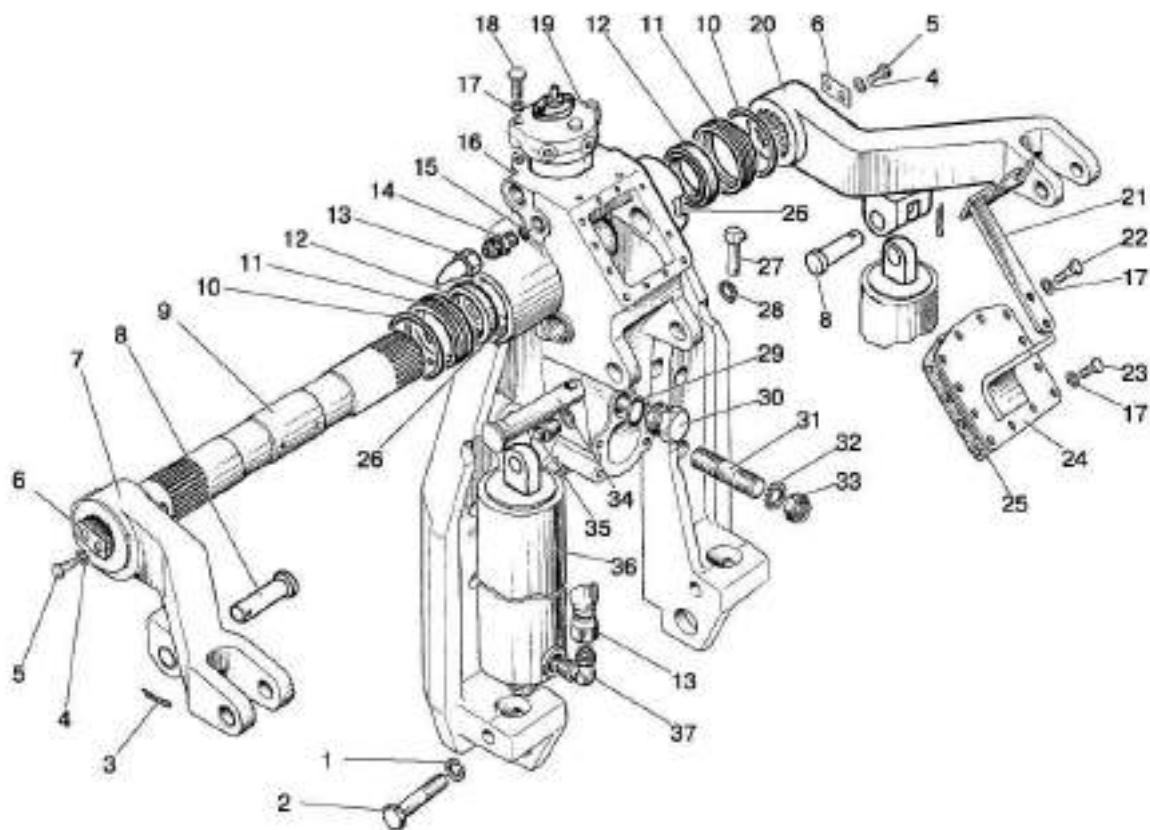


Fig. 46.14. Hydraulic hoist

Subgroup 4635. Hydraulic hoist

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

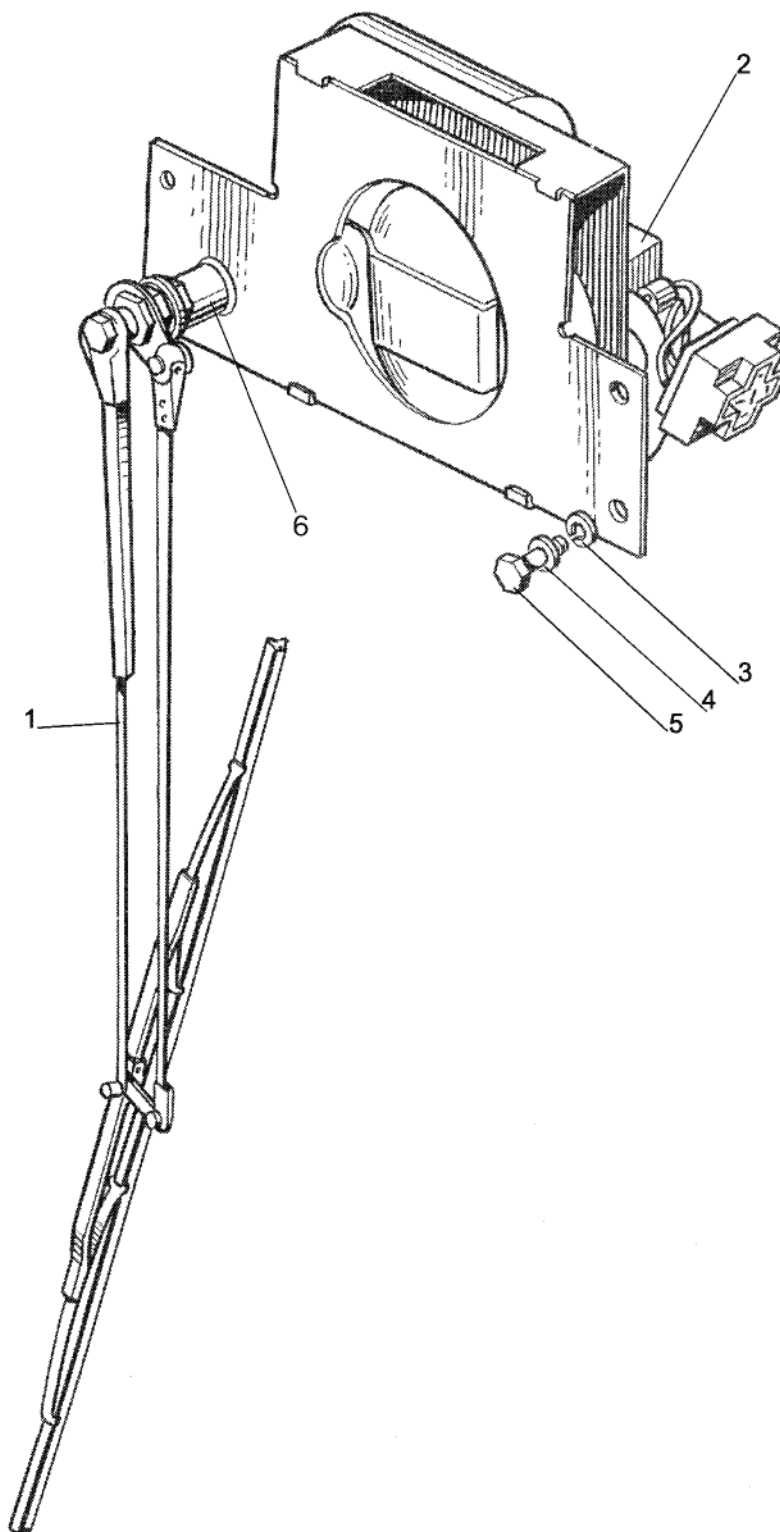


Fig. 52.1. Front screen wiper

Group 52. Screen wipers
Subgroup 192.000. Front screen wiper

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

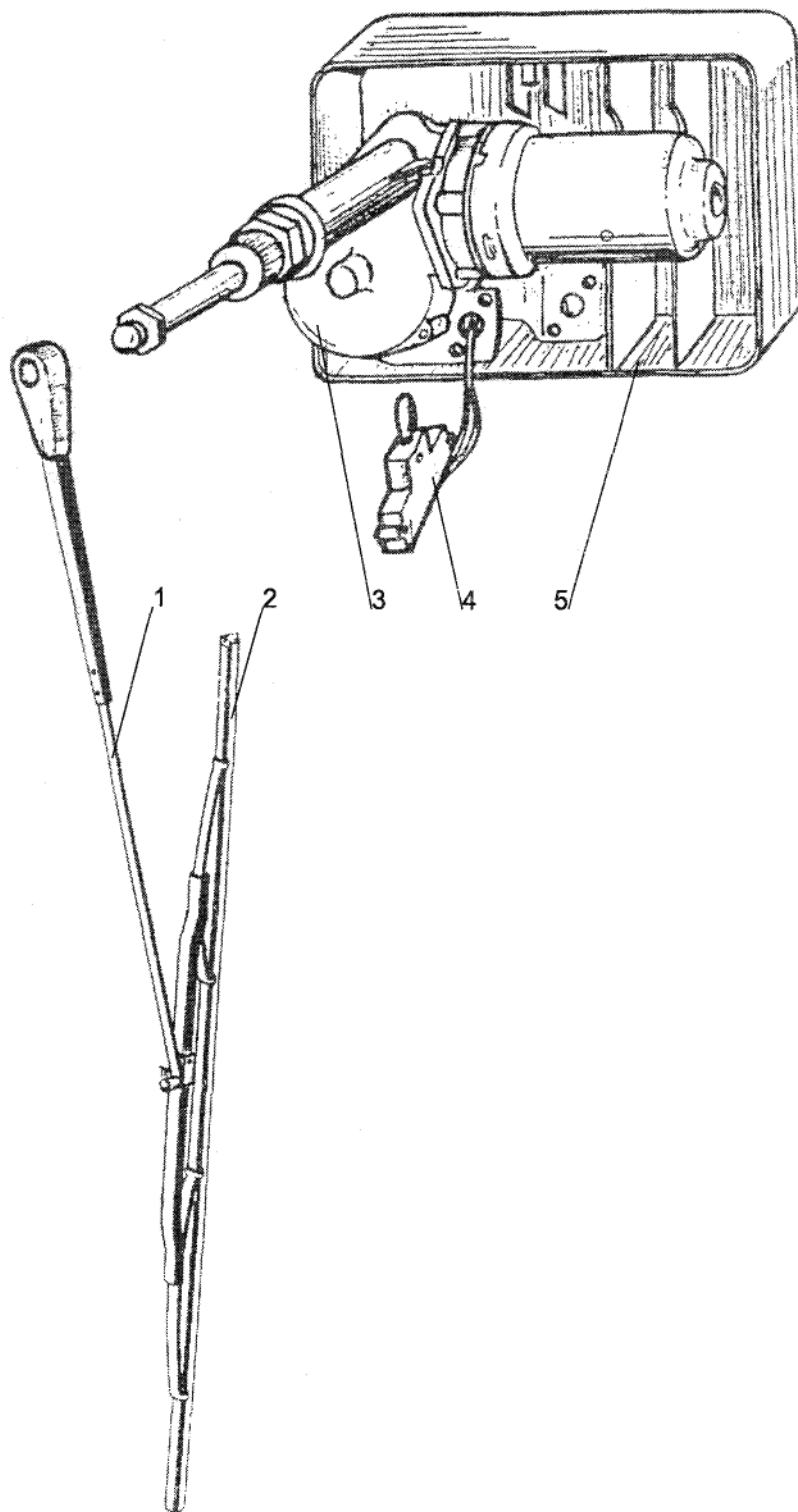


Fig. 52.2. Rear screen wiper

Group 52. Screen wipers

Subgroup 5205. Rear screen wiper

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
52.2		T240	1	Windscreen wiper (1-5)
	1	T240-5205300	1	Lever
	2	31.5205400-01	1	Brush
	3	T240-5205015	1	Reduction gear unit
	4	СЛ230-5205440	1	Switch
	5	T240-5205712	1	Housing

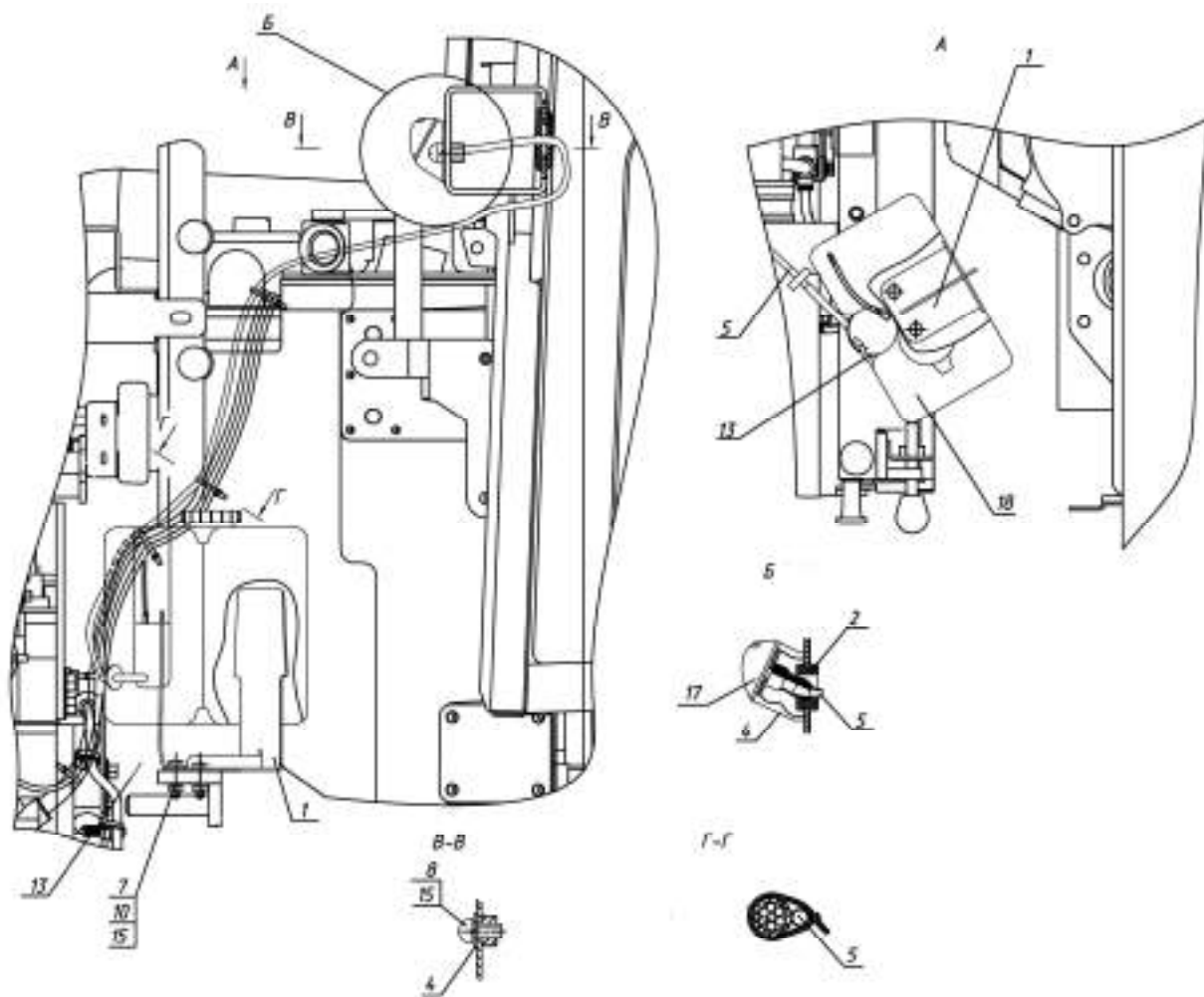


Fig. 52.3 Screen washer installation

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
52.3		1221-5208010	1	Screen washer installation
	1	1221-5208005	1	Bracket
	2	70-3723042-01	1	Bushing
	4	80-5208011-A	1	Flange
	5	923-5208002-02	1	Pipe
	7	M6-6gx25.88.35.019	2	Bolt GOST 7798-70
	8	B.M6-6gx12.58.019	2	Screw GOST 17473-80
	10	M6-6H.6.019		Nut GOST 5915-70
	13	920-3724224	1	Cable GOST 23544-84
	15	6T	4	Washer OST 37.001.115-75
	17	5208.10	1	Fuel jet1202.5208500-02 or АДЮИ.306549.001
	18	122.5208 000	1	Electrical washer TU 37.459.176-94

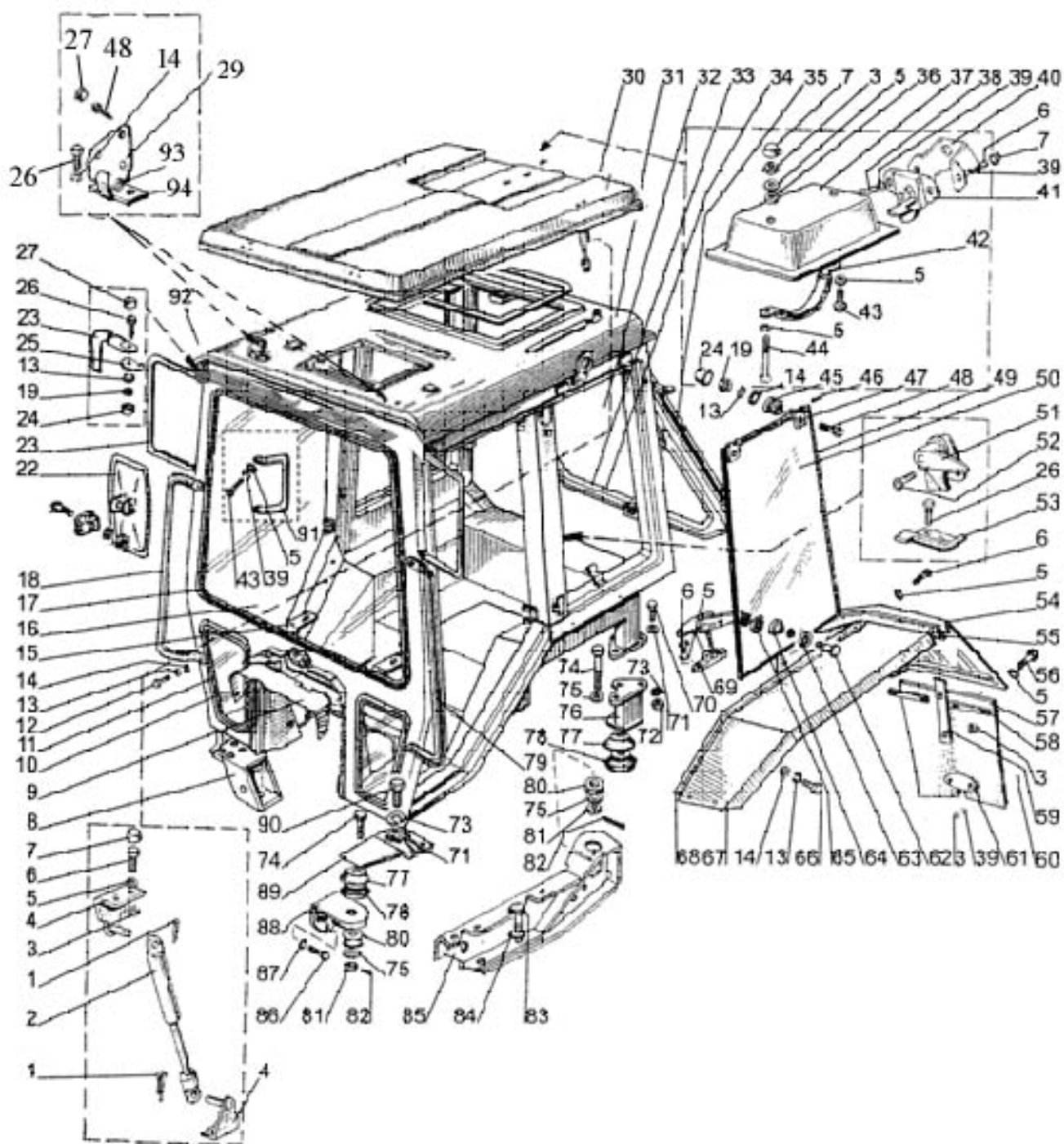


Fig. 67.1. Tractor cabin

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

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

* Substitution for 80-6700026-02 is permitted.

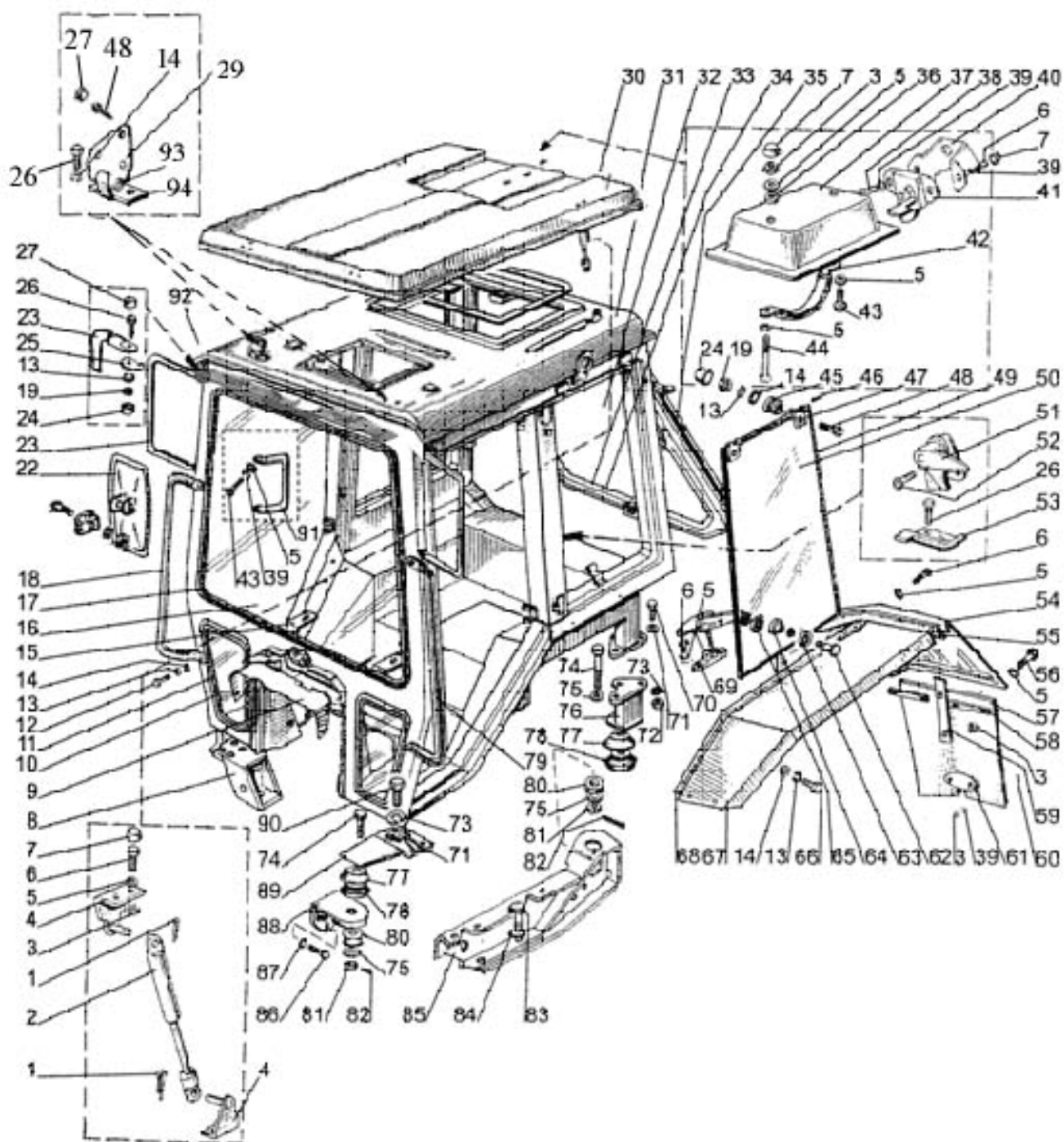


Fig. 67.1. Tractor cabin

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

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

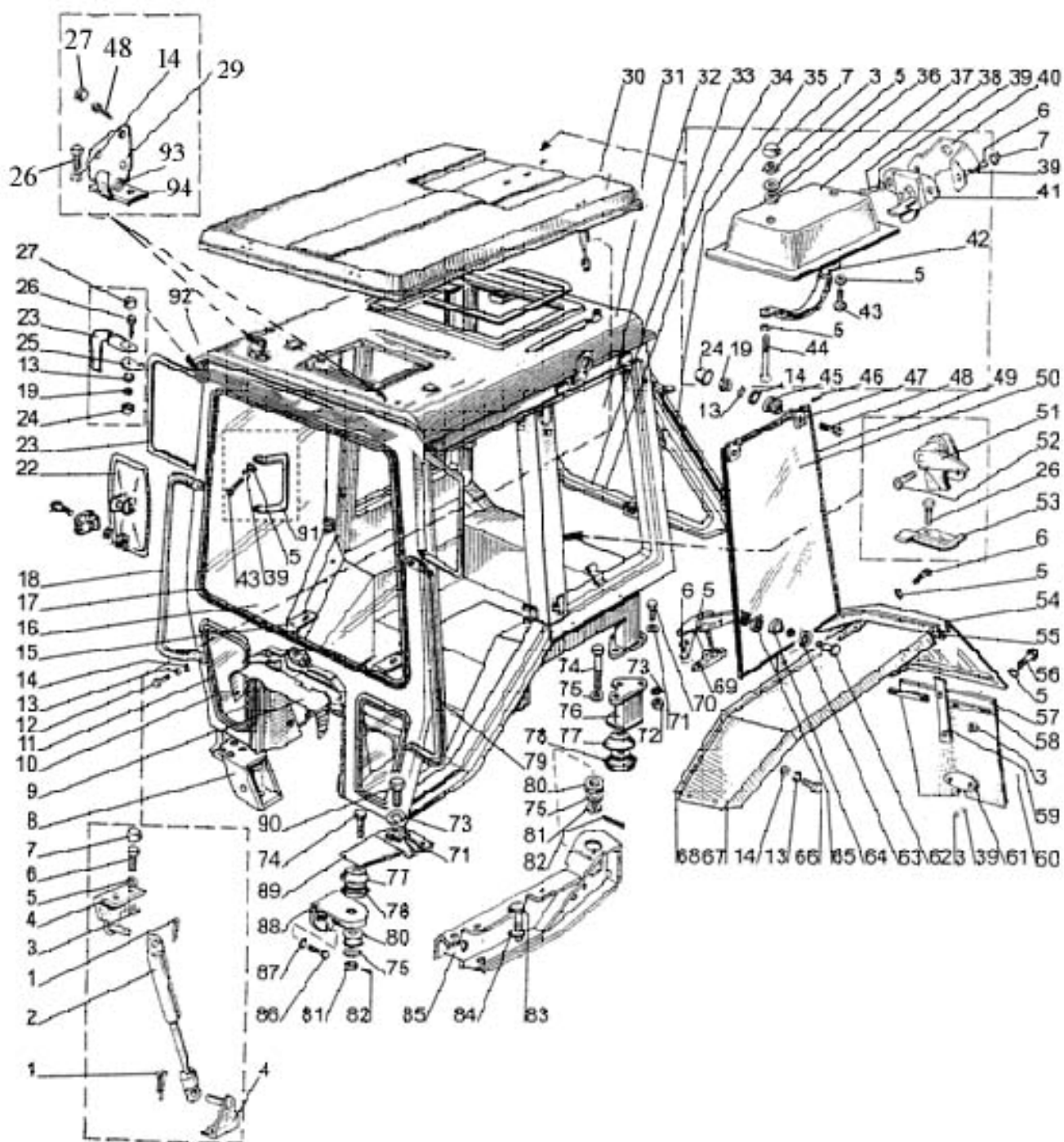


Fig. 67.1. Tractor cabin

Group 67. Tractor cabin
Subgroup 6700. Tractor cabin

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

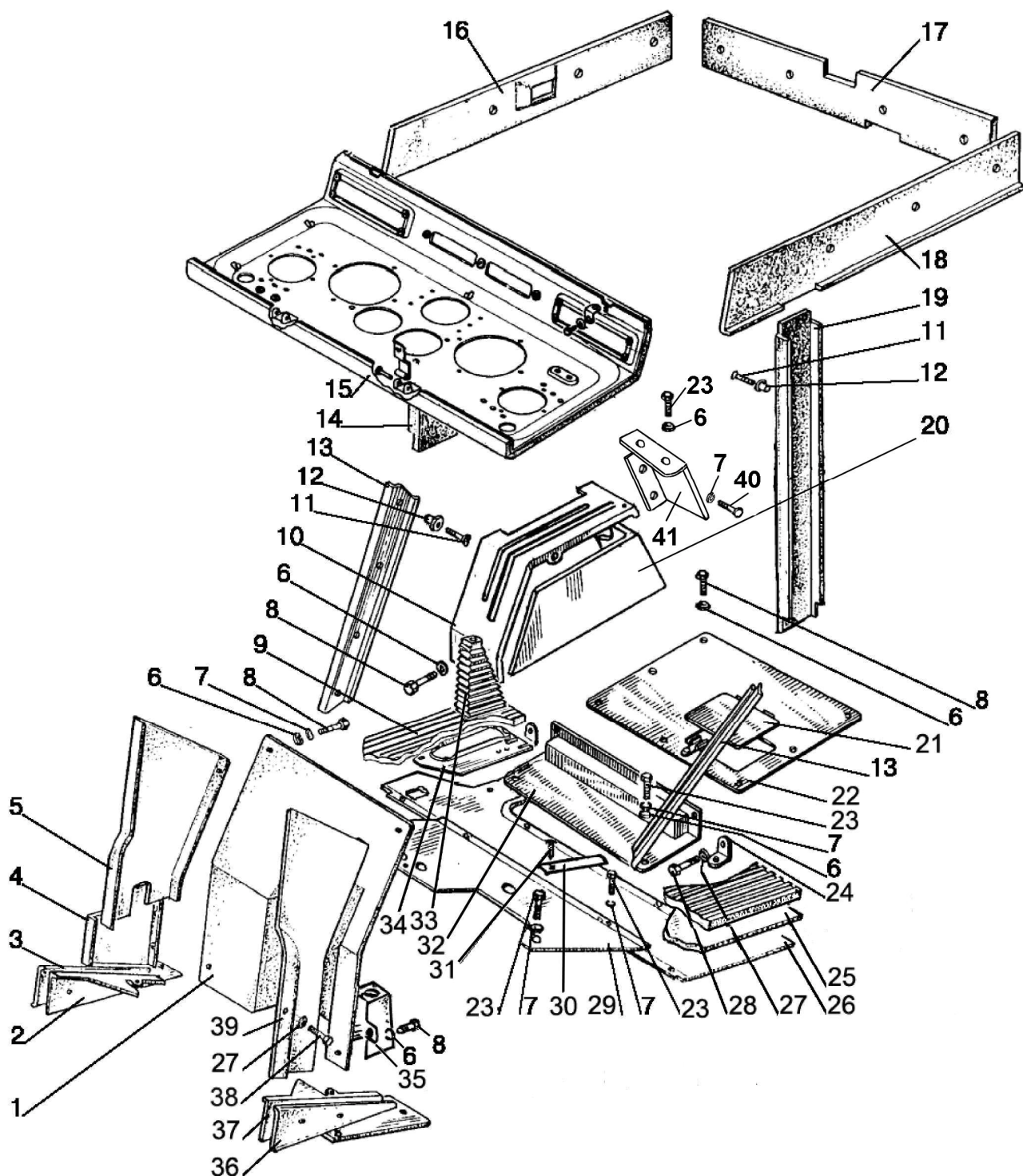


Fig. 67.2. Cabin floor

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

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

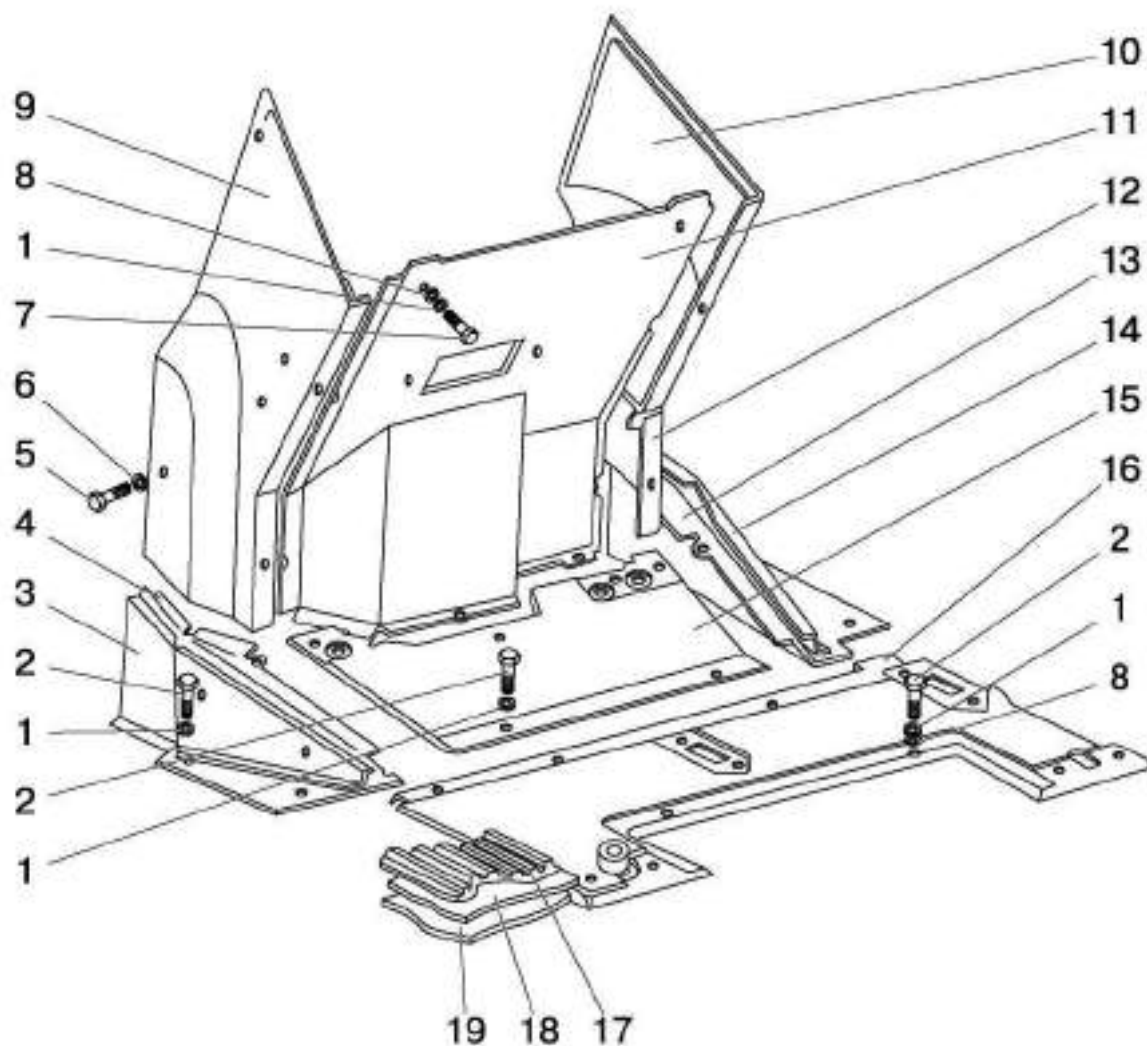


Fig. 67.3. Panels

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

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

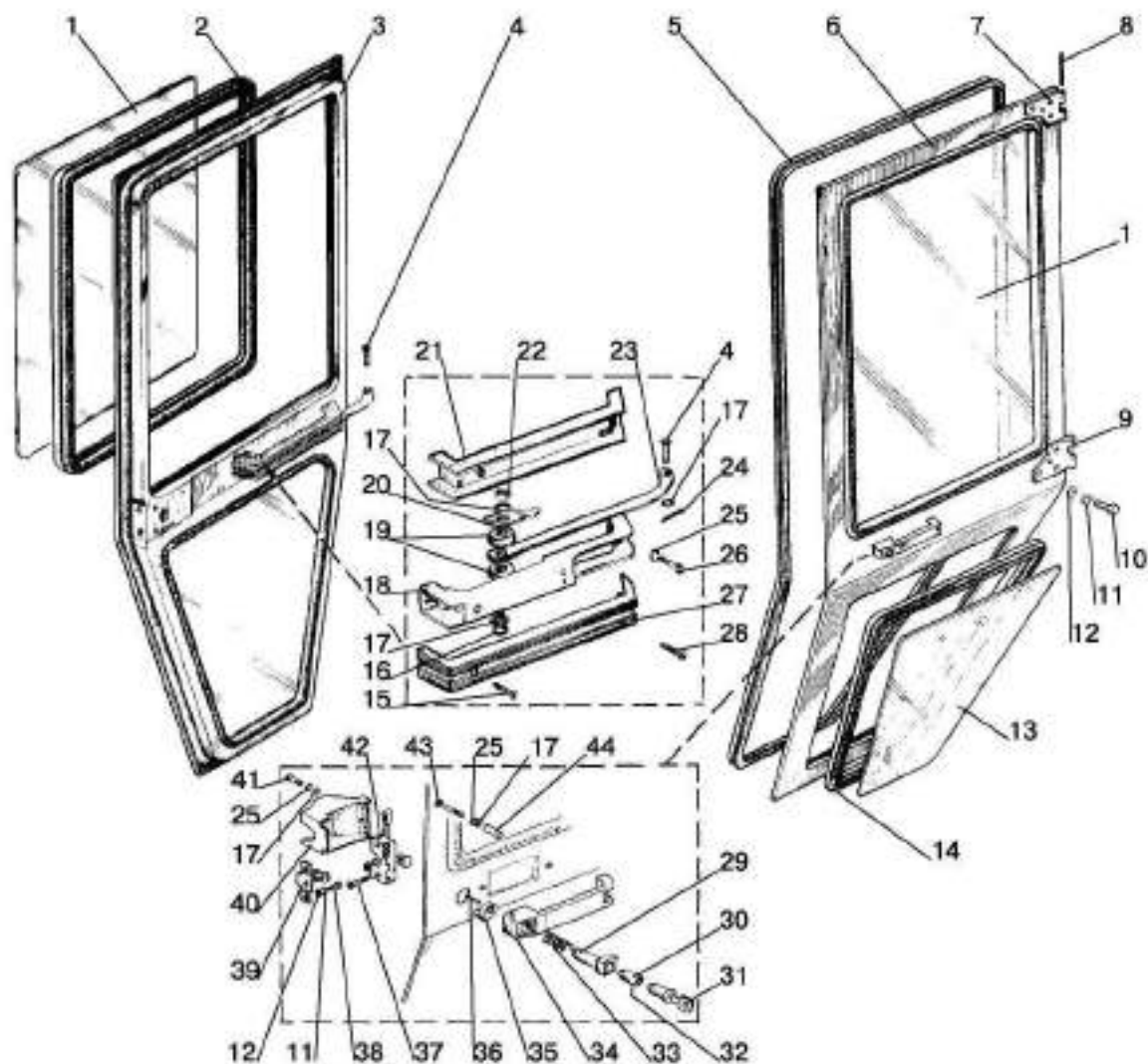


Fig. 67.4. Cabin doors

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

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

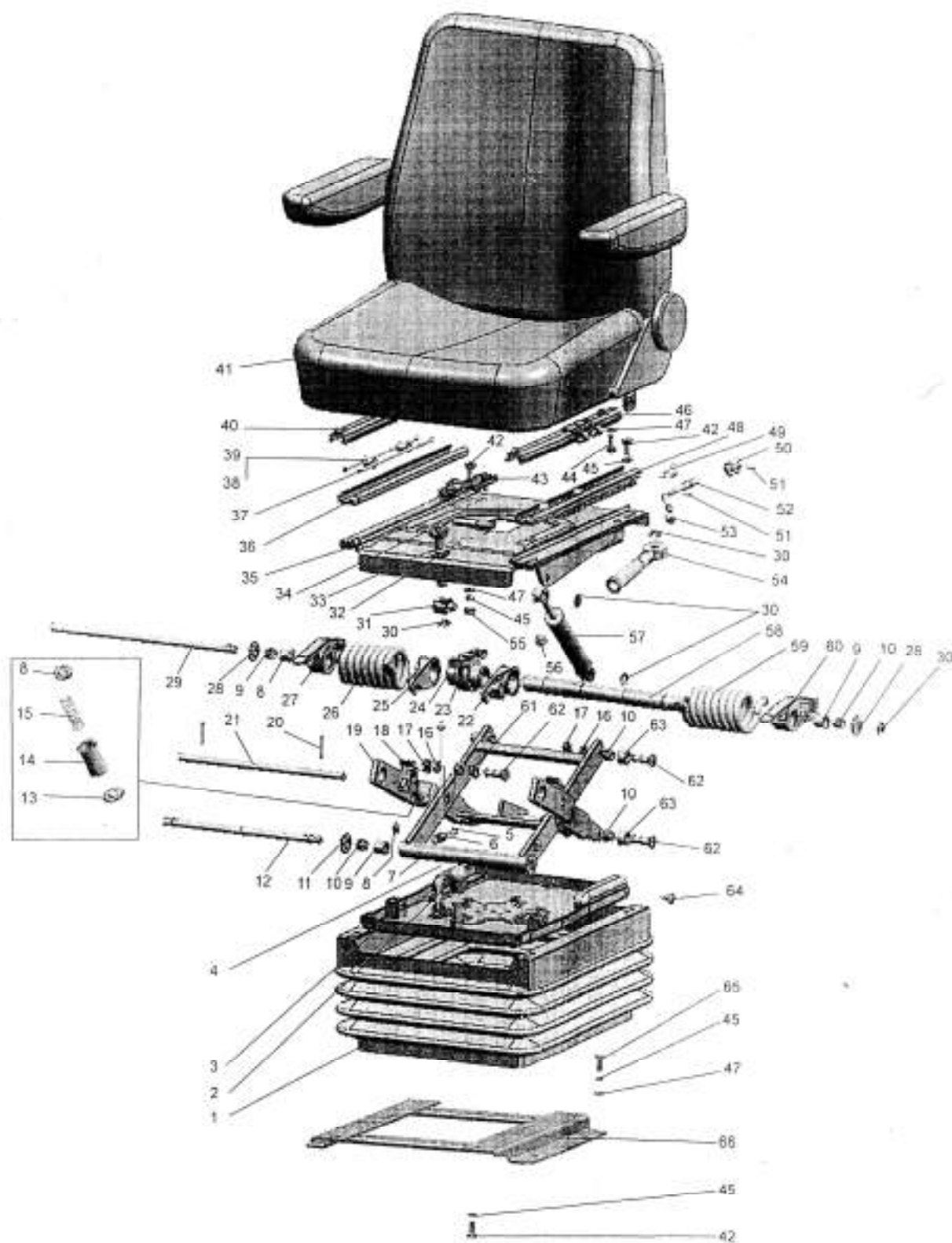


Fig. 68.1 Operator seat

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

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

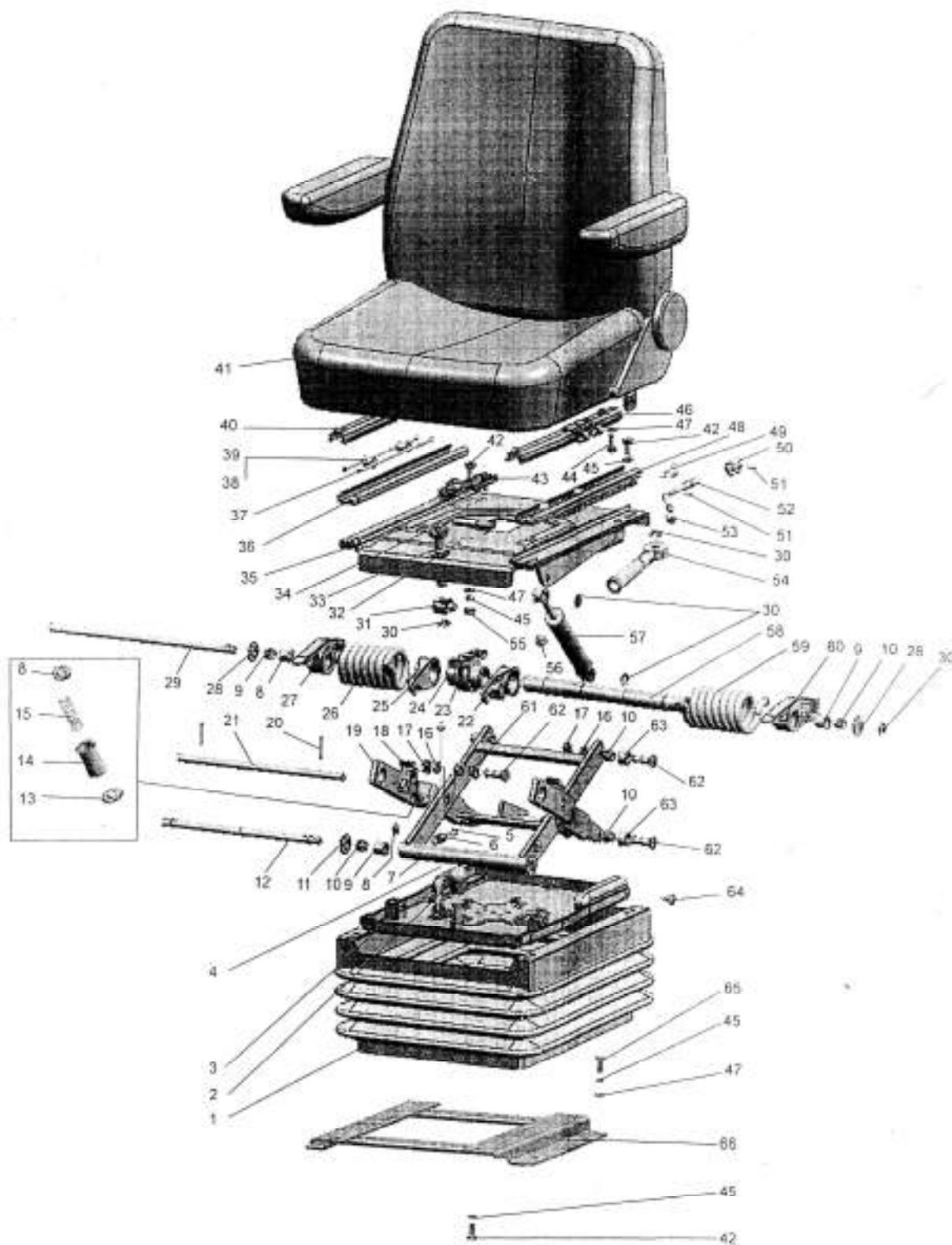


Fig. 68.1 Operator seat

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

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

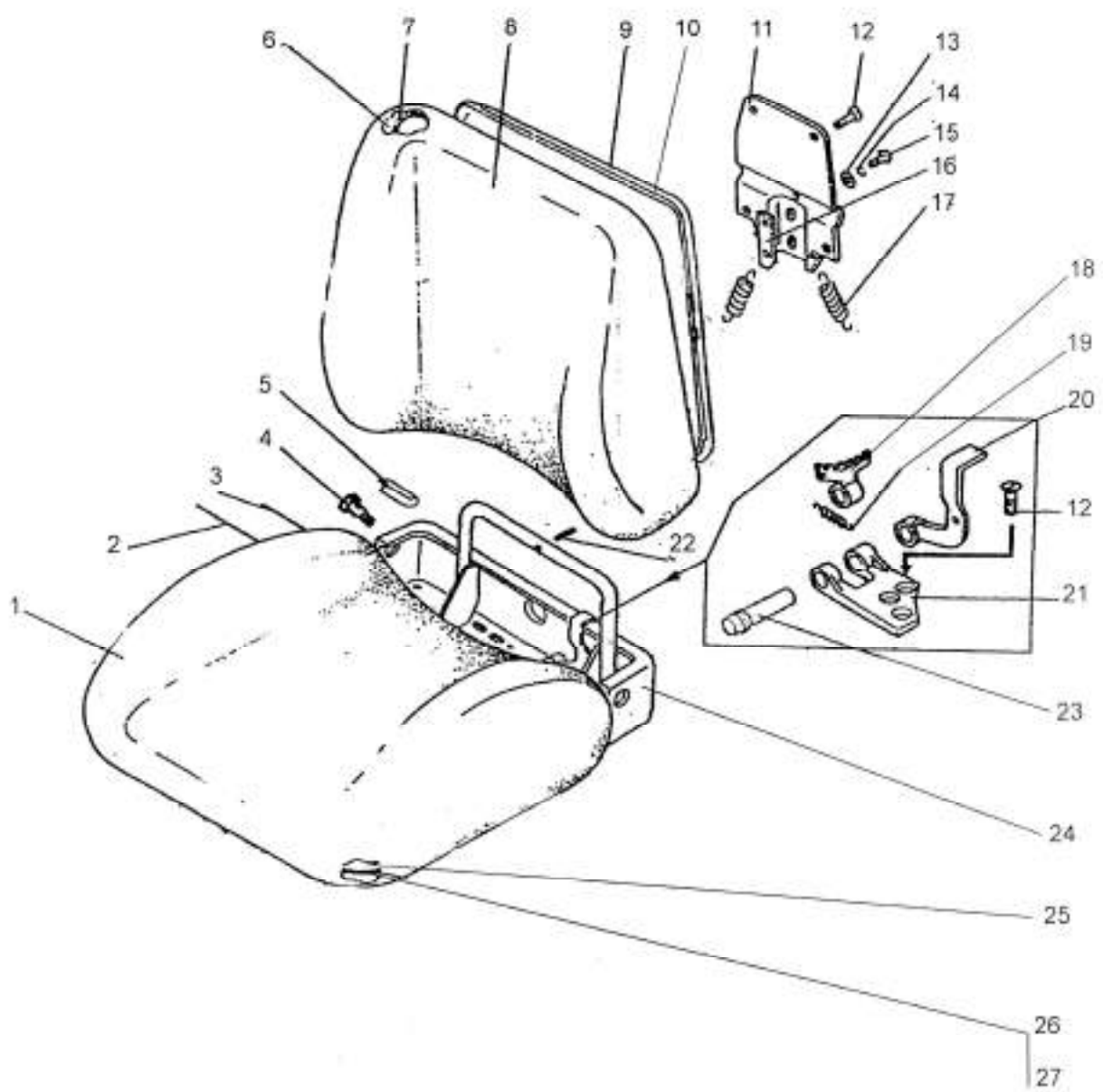


Fig. 68.2 Operator seat

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

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

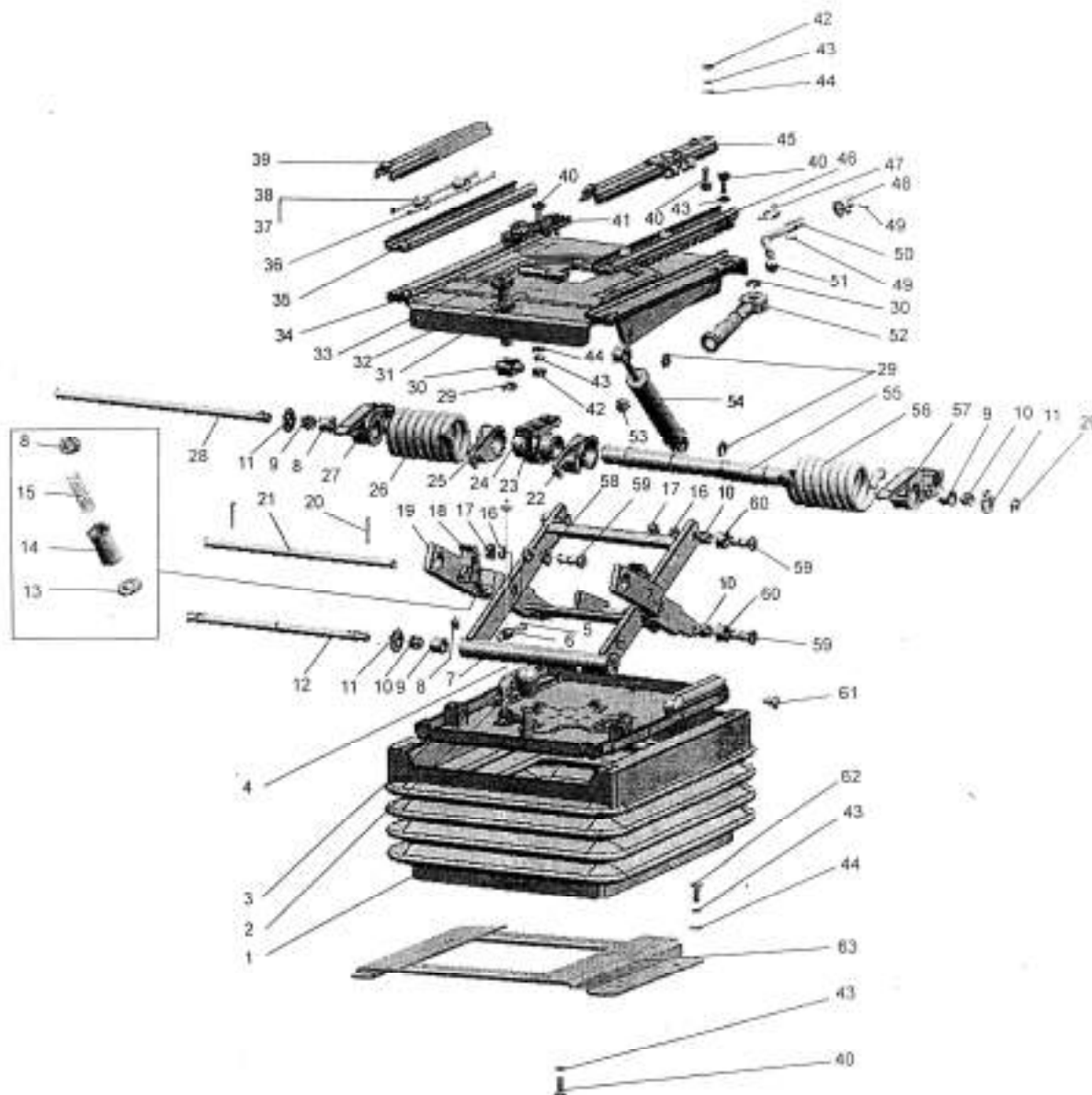


Fig. 68.3 Seat suspension

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

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

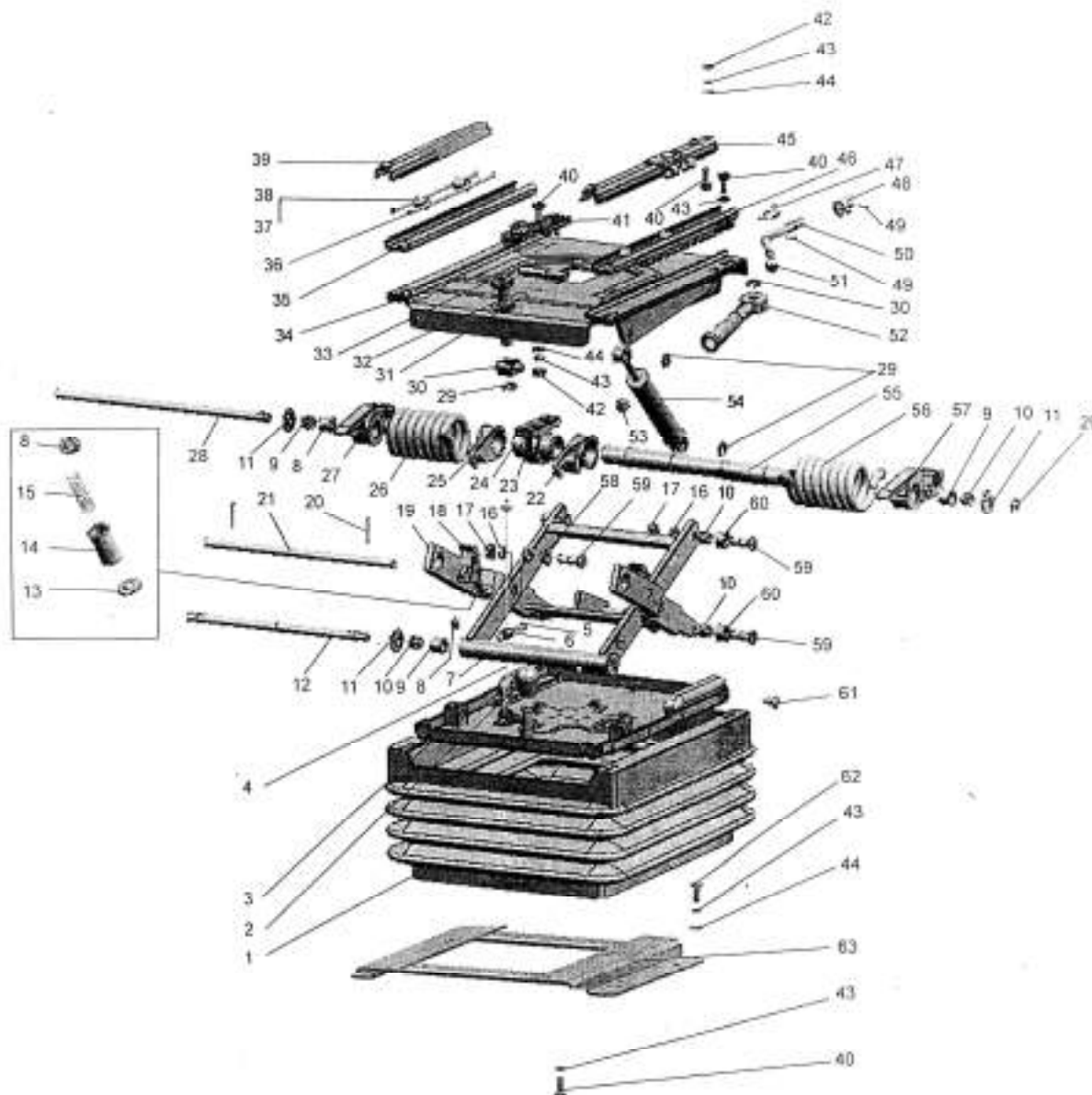


Fig. 68.3 Seat suspension

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

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

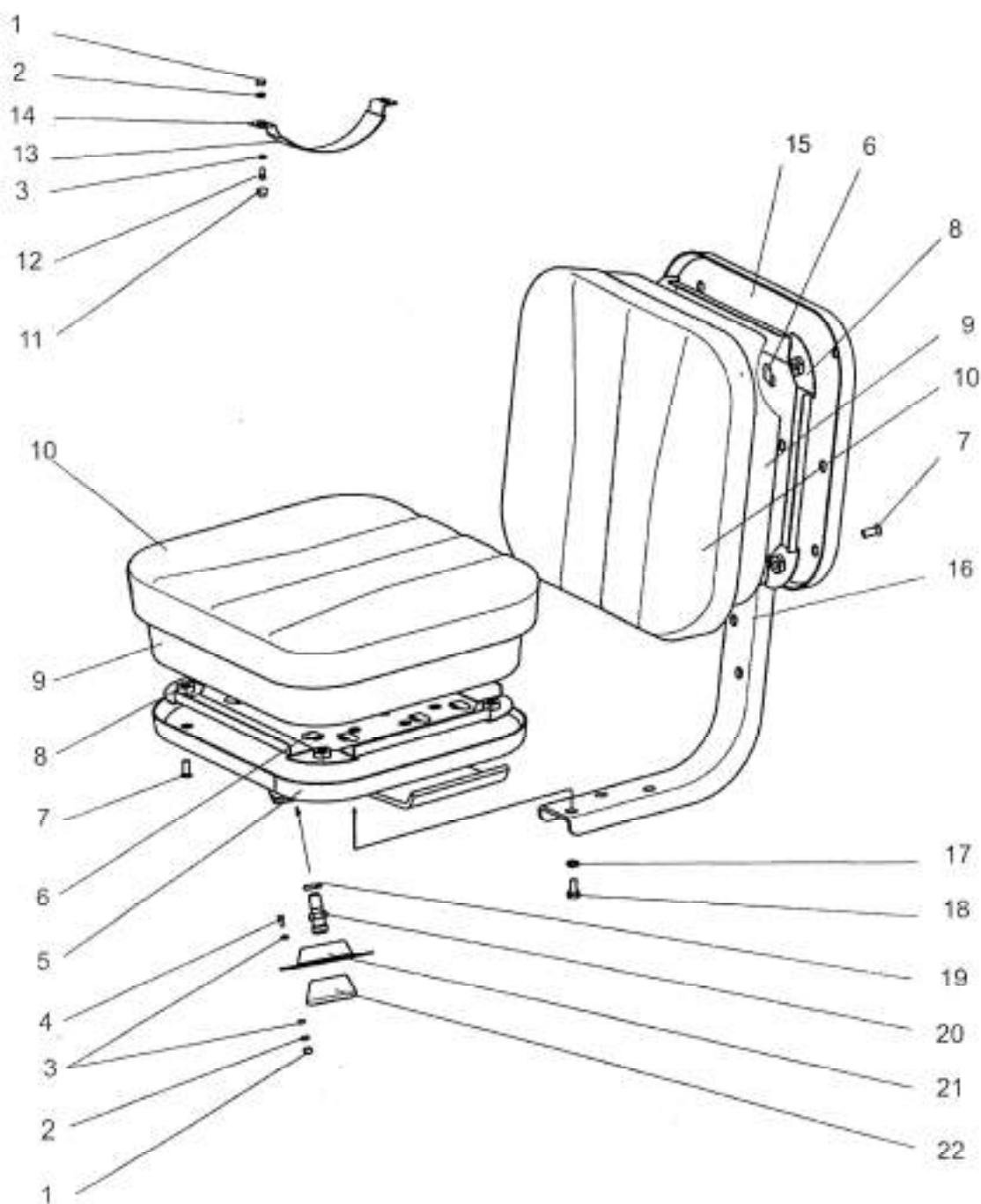


Fig. 68.4 Additional seat

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

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

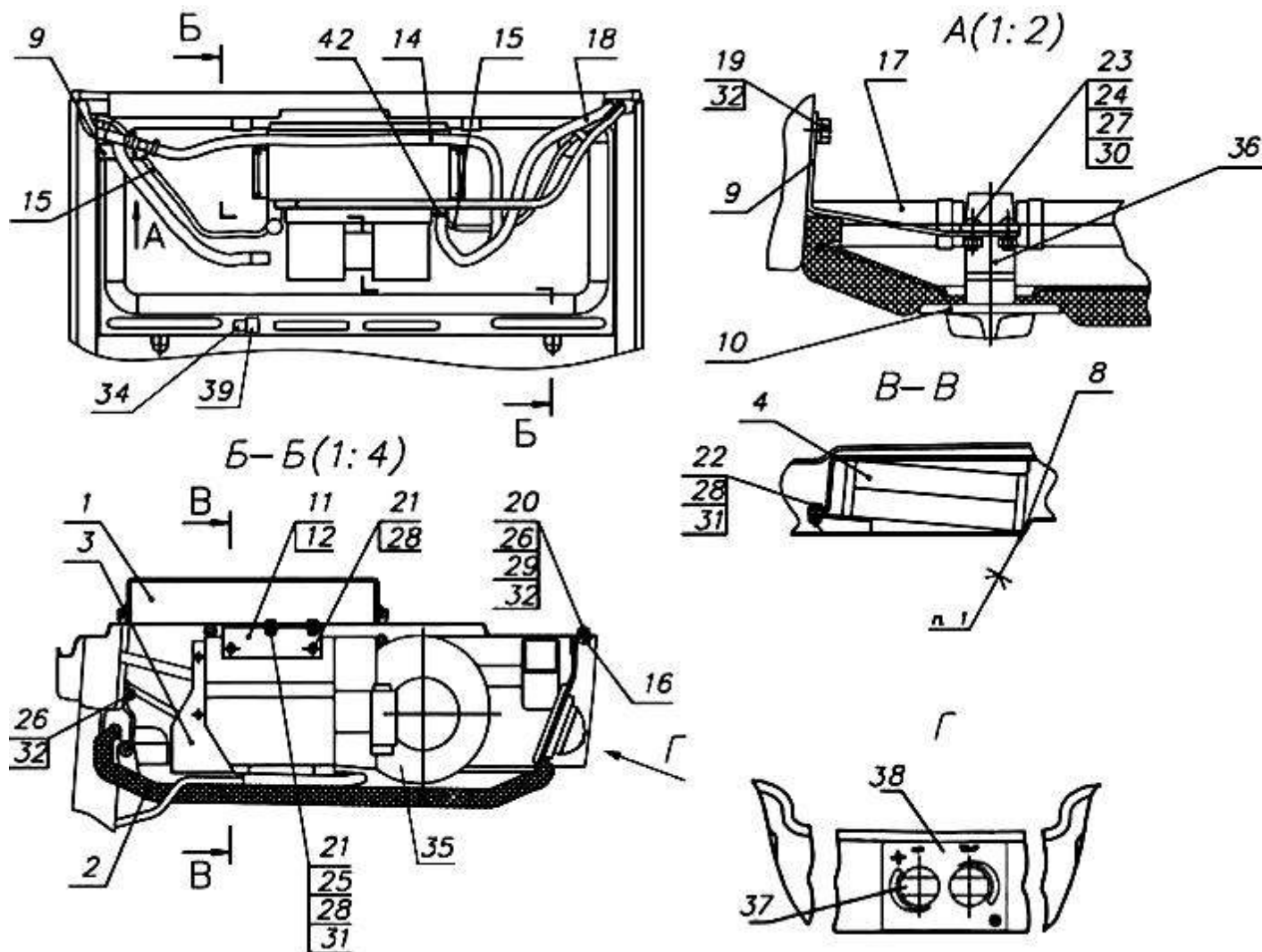


Fig. 81.1. Heater-cooler installation

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

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

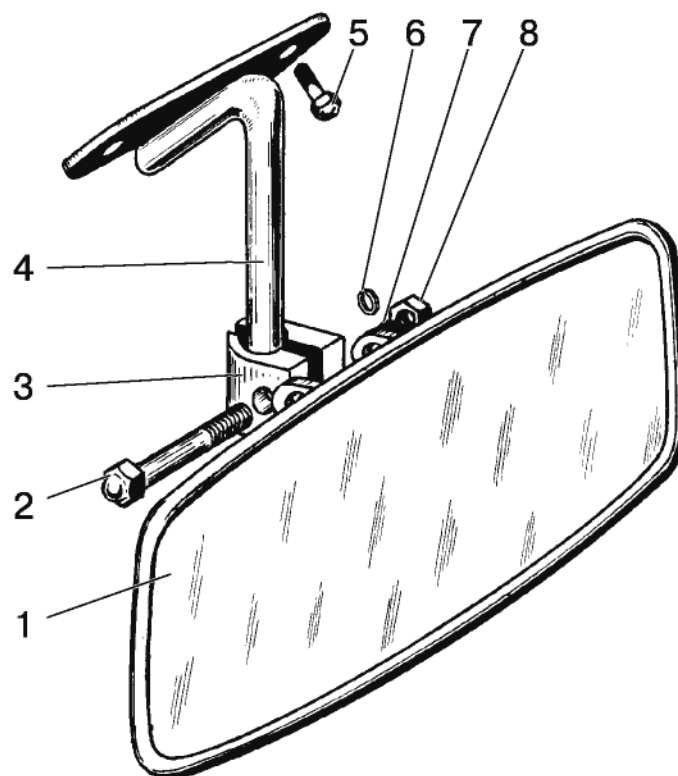


Fig. 82.1. Inside rear-view mirror

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

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

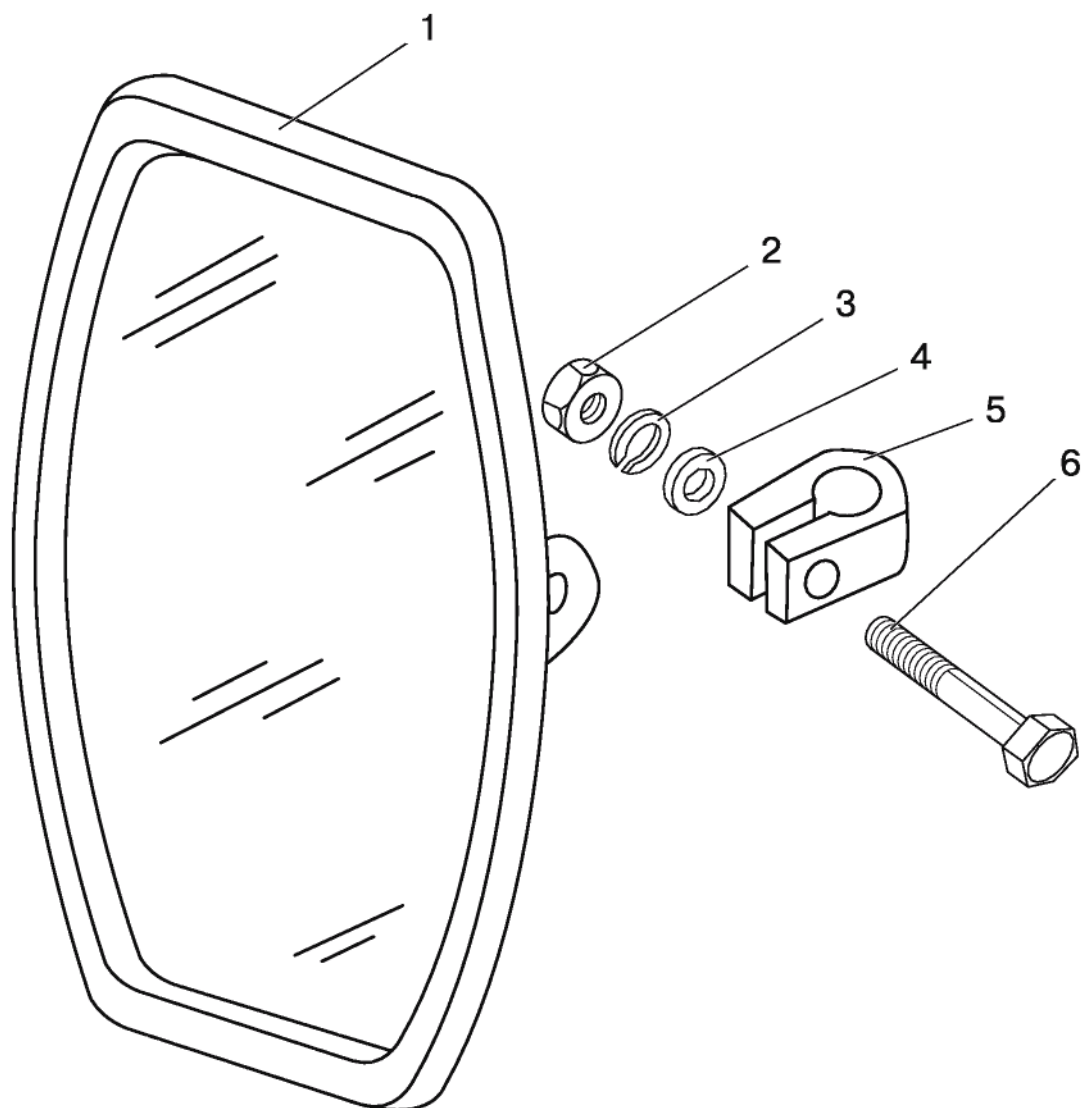


Fig. 82.2. Side rear-view mirror

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

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

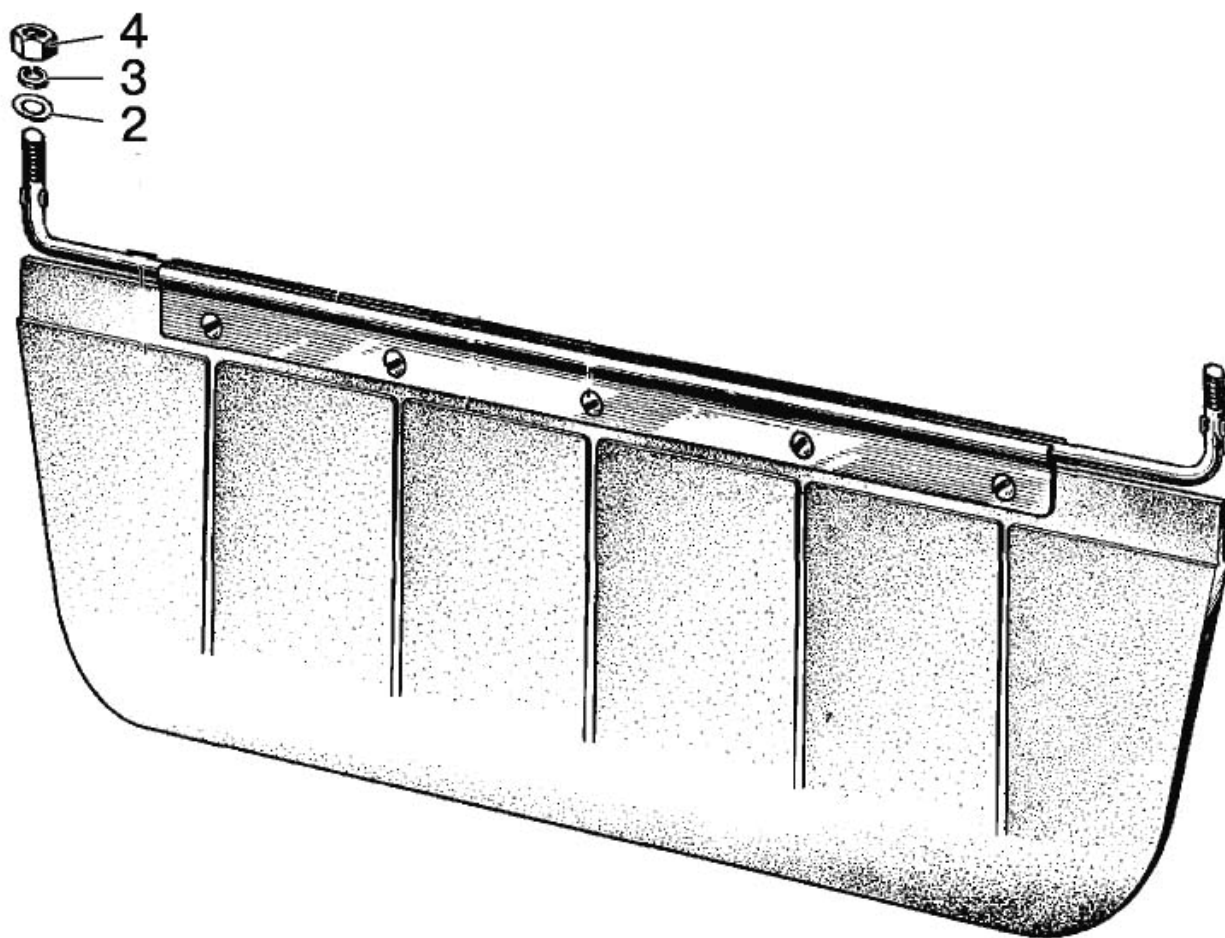


Fig. 82.3. Sun visor

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

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

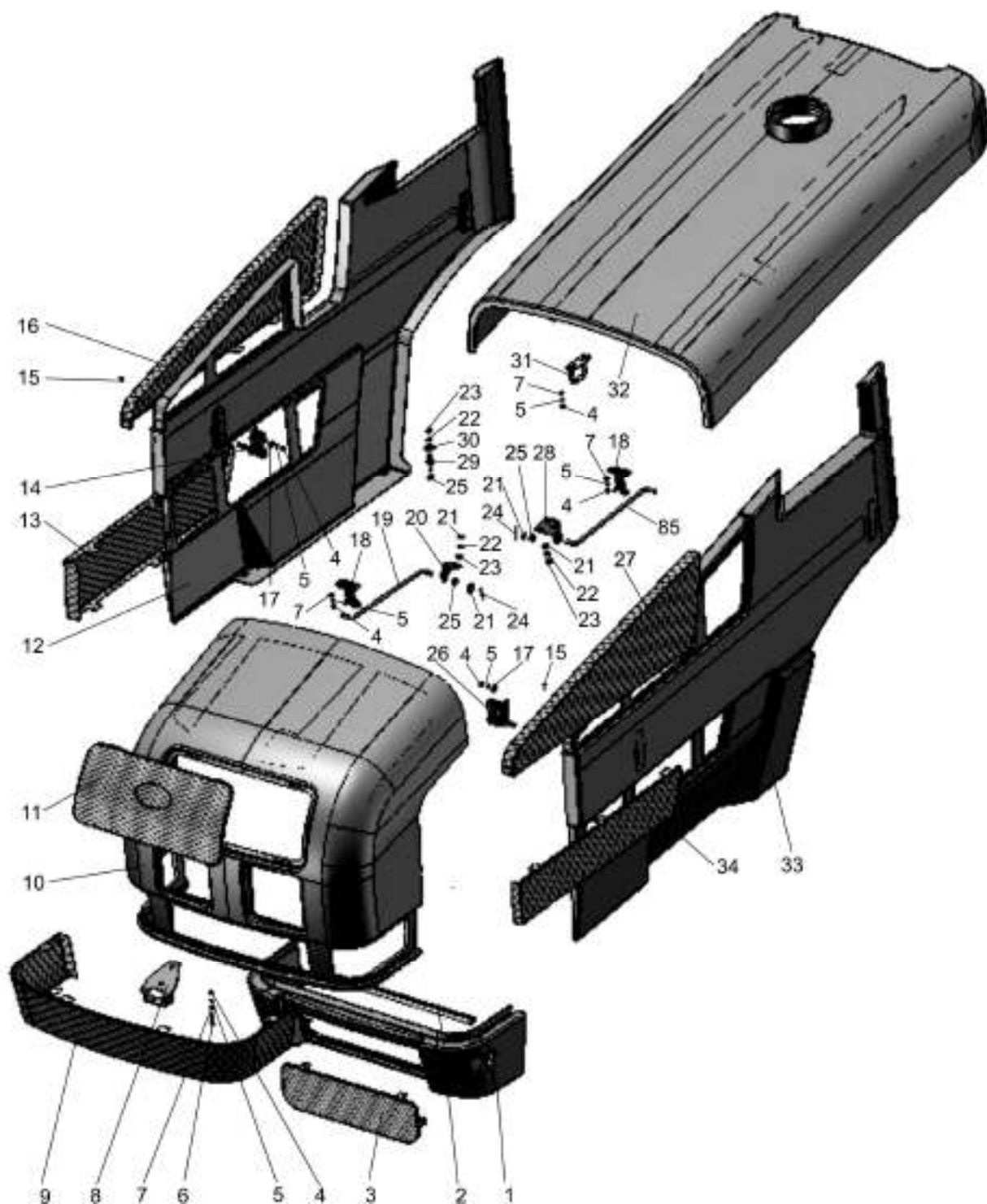


Fig. 84.1 Facing

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

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

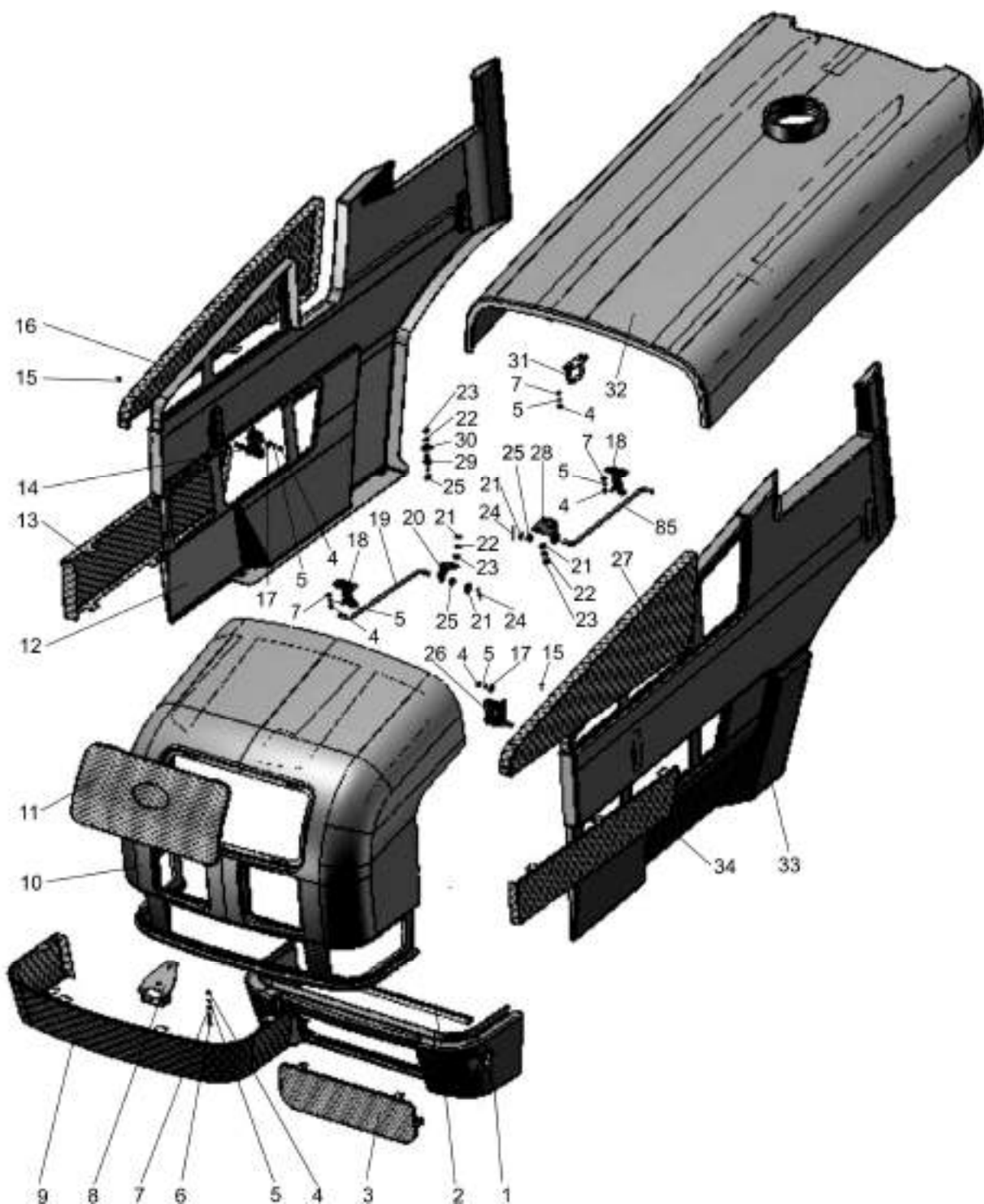


Fig. 84.1 Facing

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

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

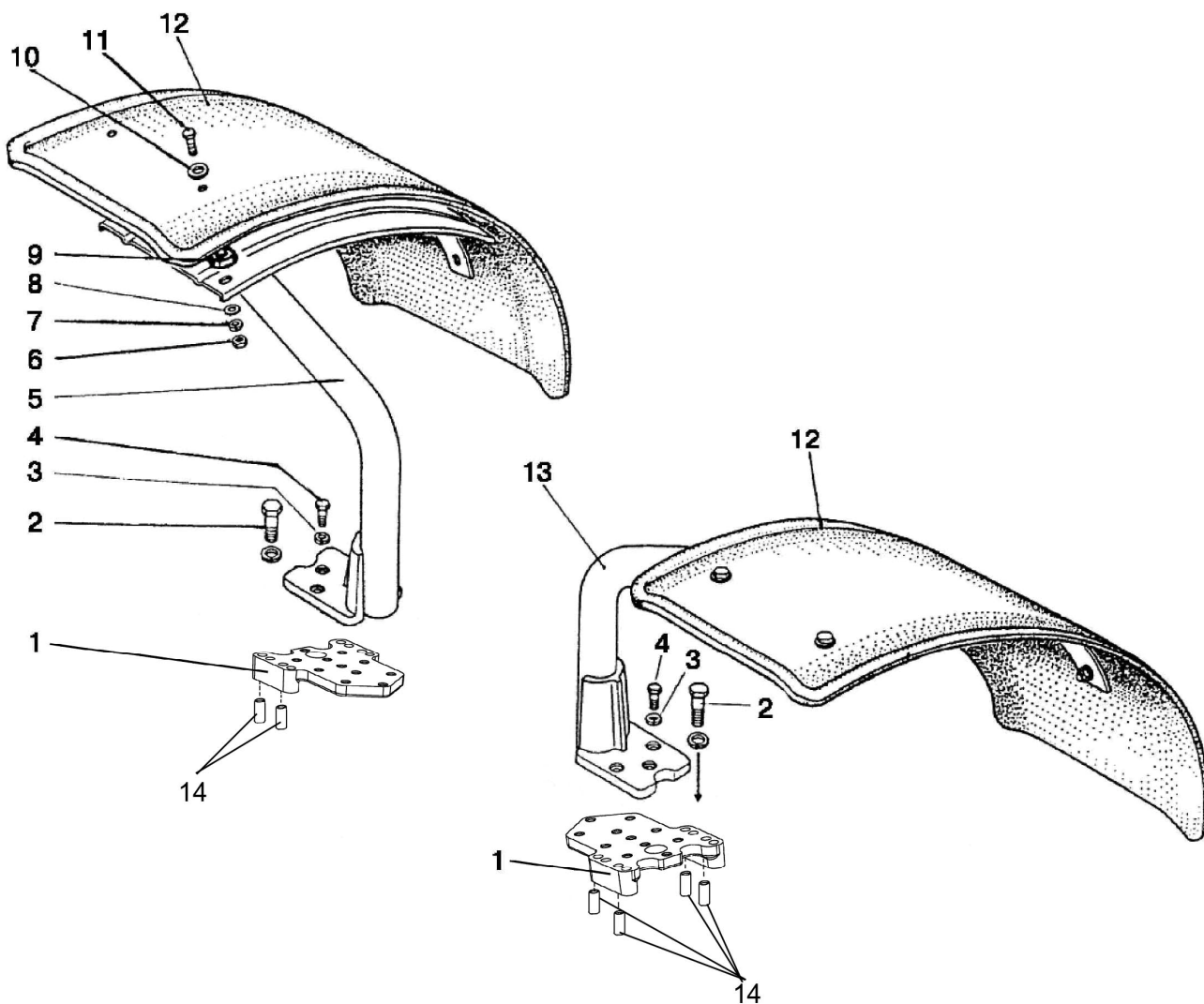


Fig. 84.2 Front wings

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

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
84.2	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

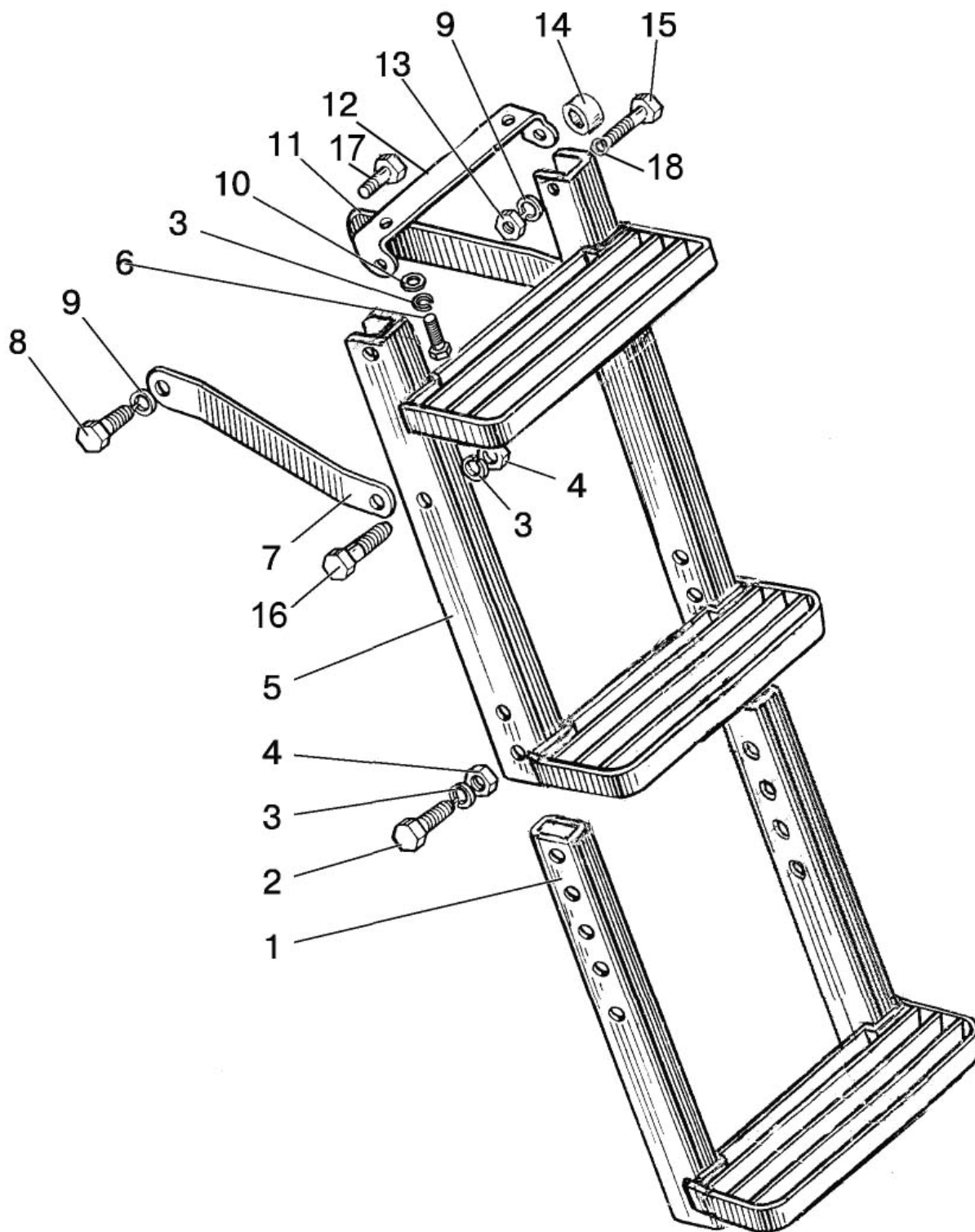


Fig. 84.3 Foot step

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

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

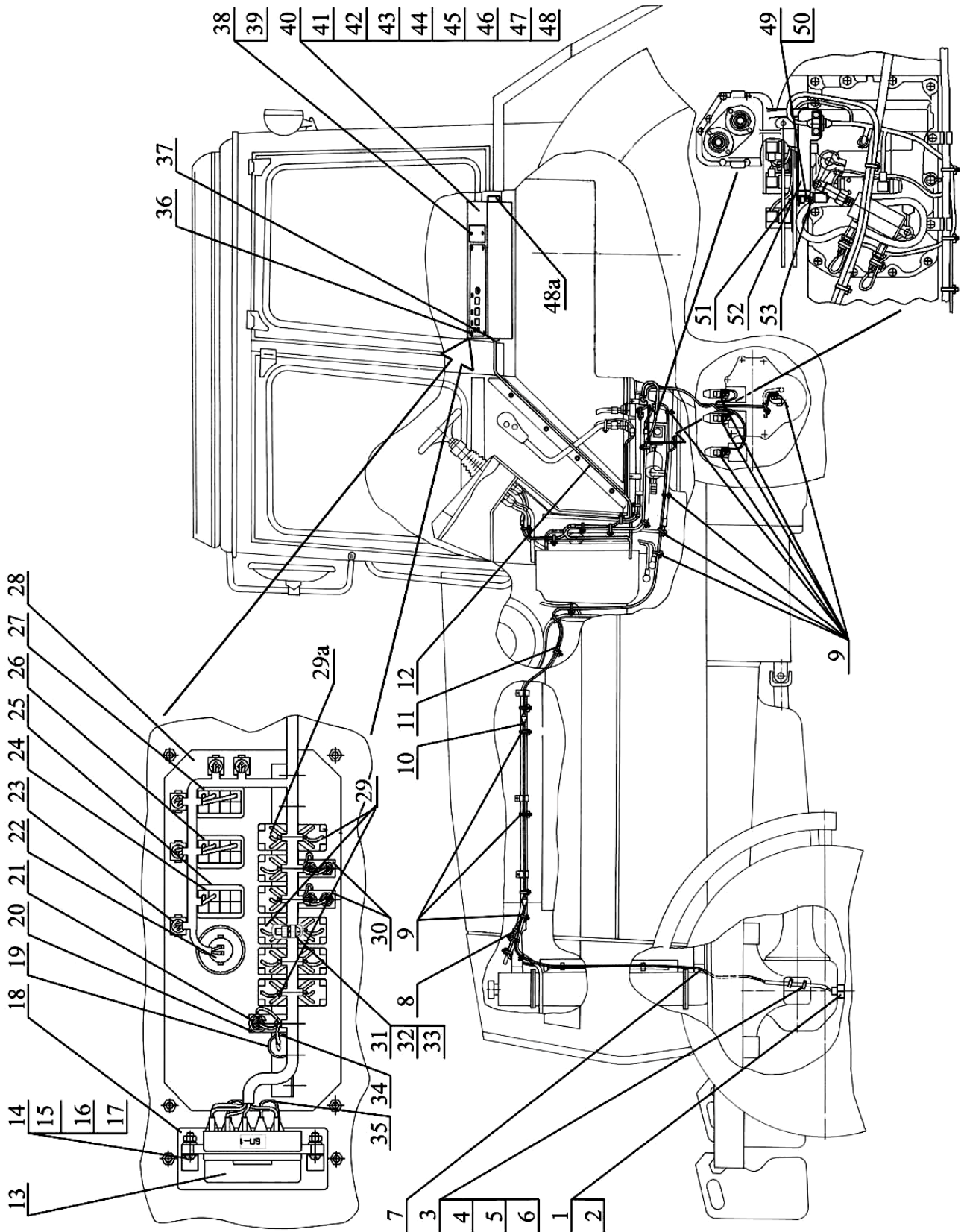


Fig. 87.1. Control of FDA, rear axle DL, rear PTO shaft and reduction unit (1221-8700250-Д)

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

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

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

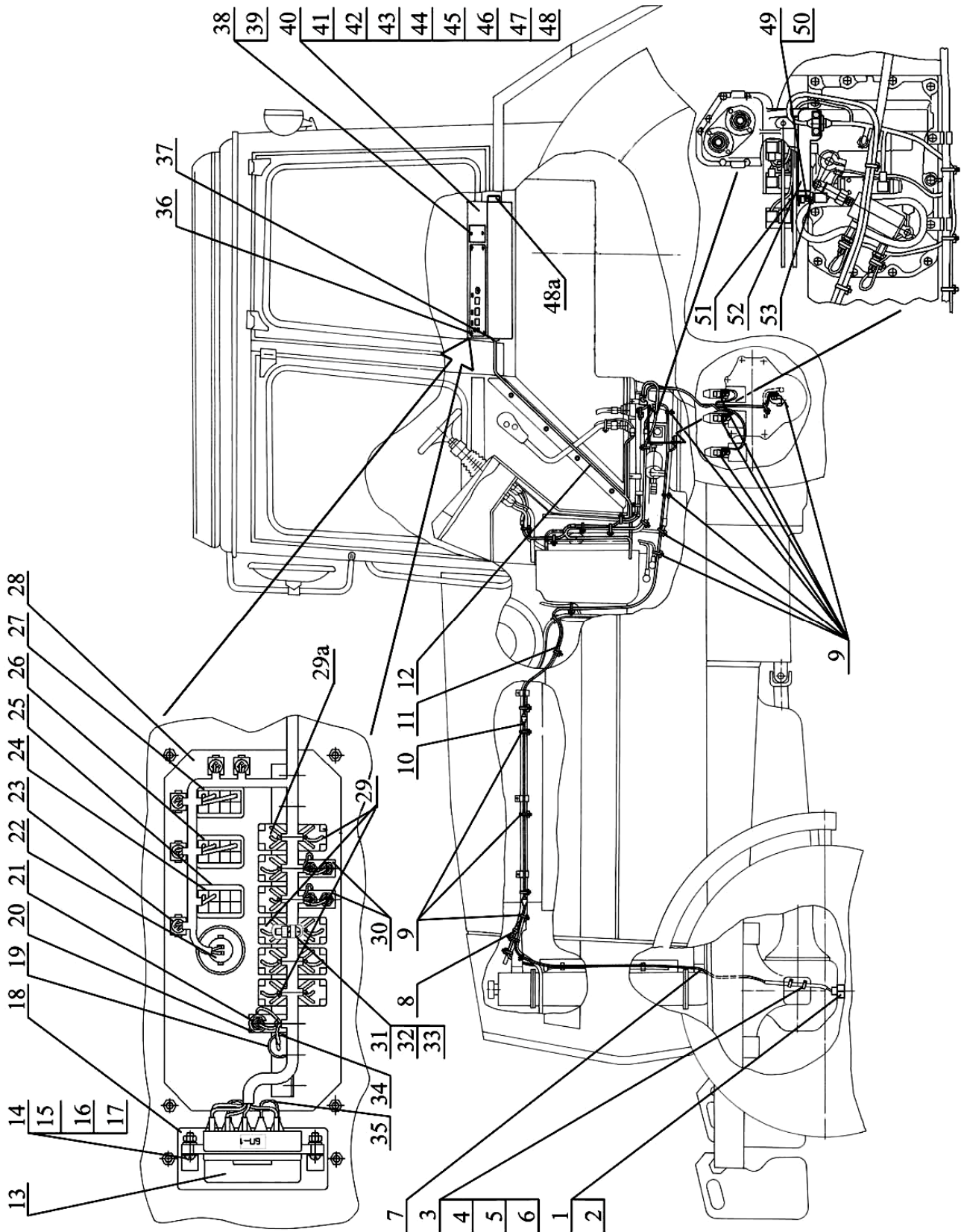


Fig. 87.1. Control of FDA, rear axle DL, rear PTO shaft and reduction unit (1221-8700250-Д)

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

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

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

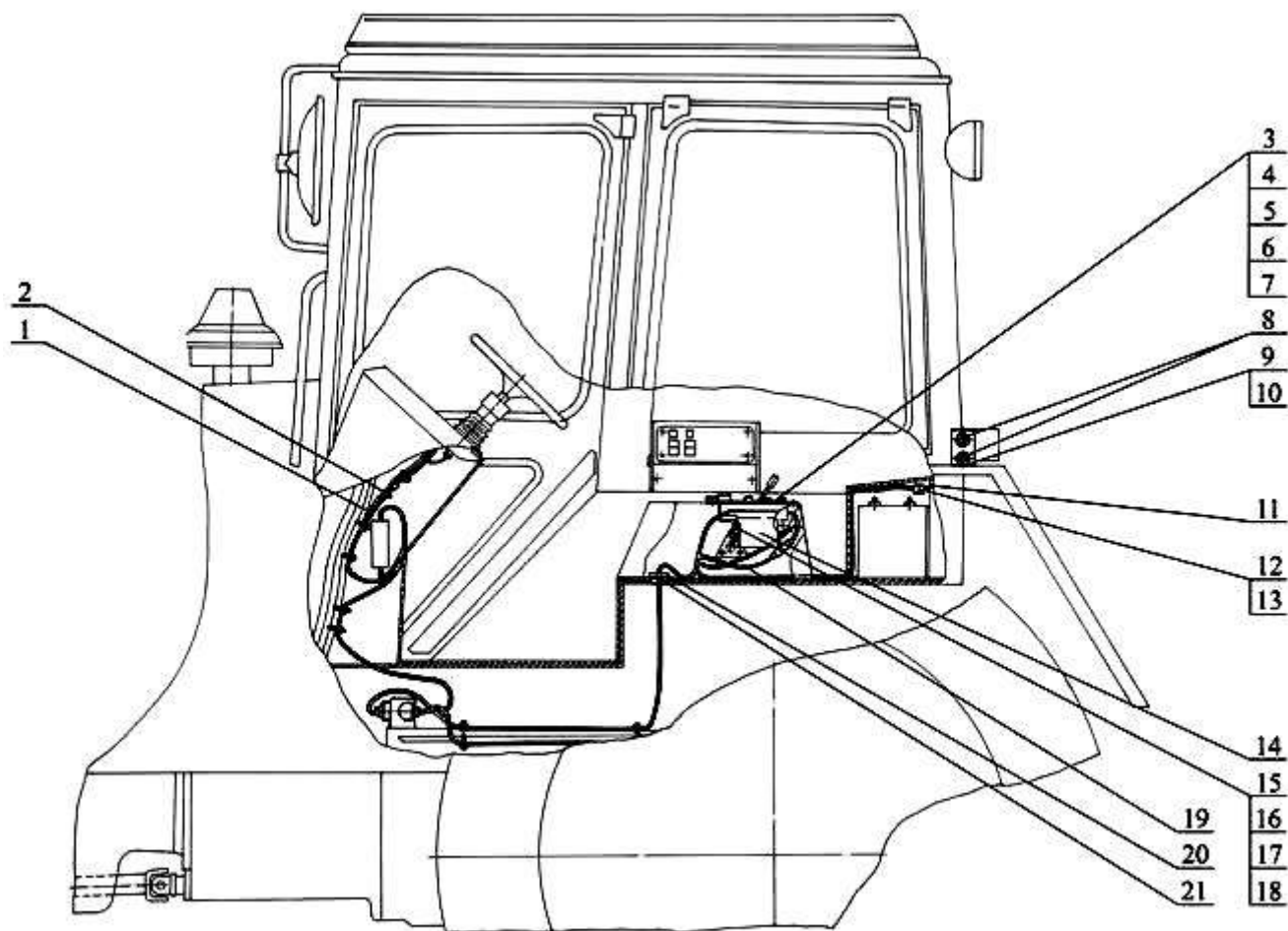


Fig. 87.2. Rear lift linkage control

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

Subgroup 8700. Rear lift linkage control

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

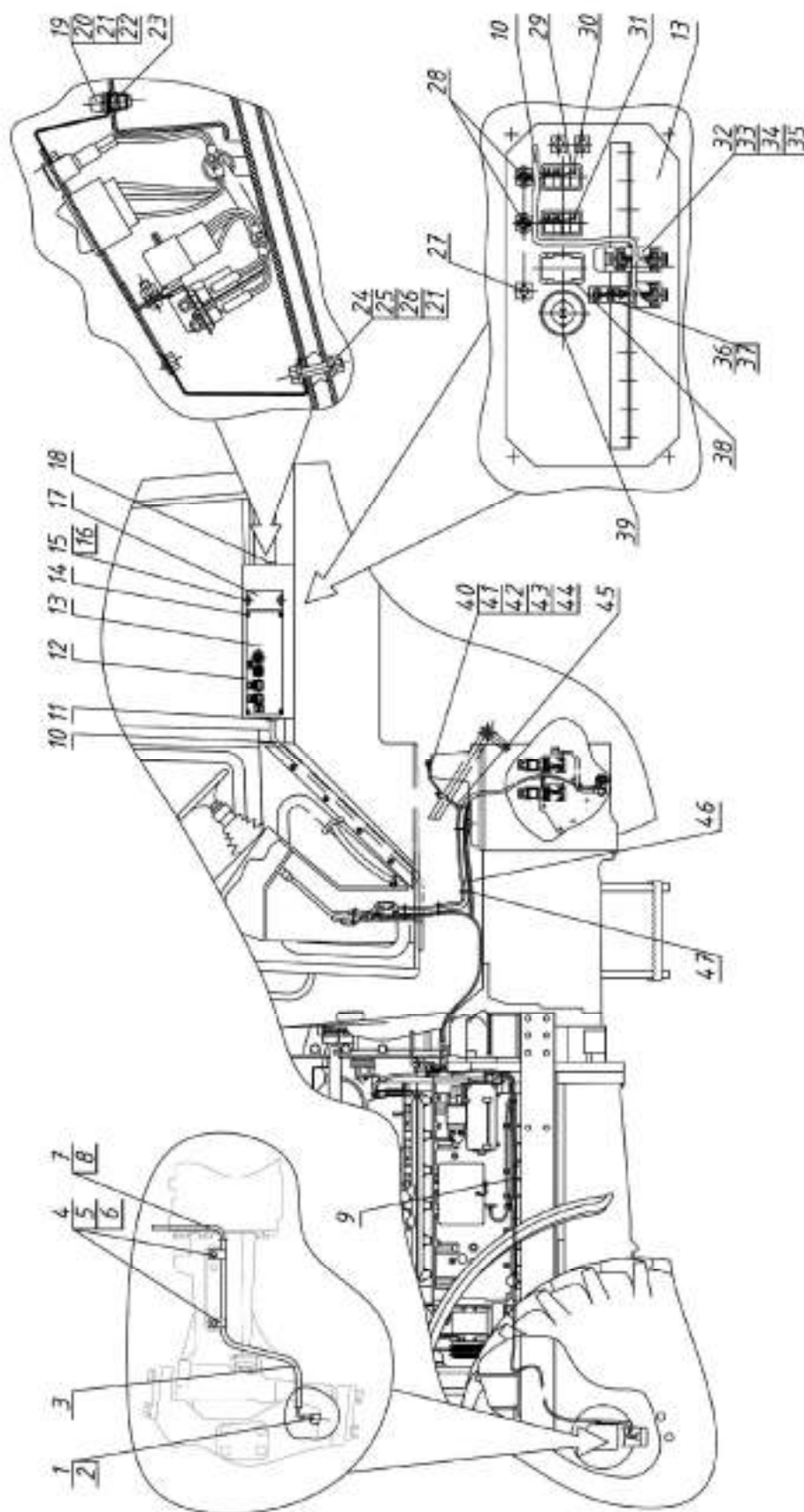


Fig.87.3 Control of DL and FDA

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

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

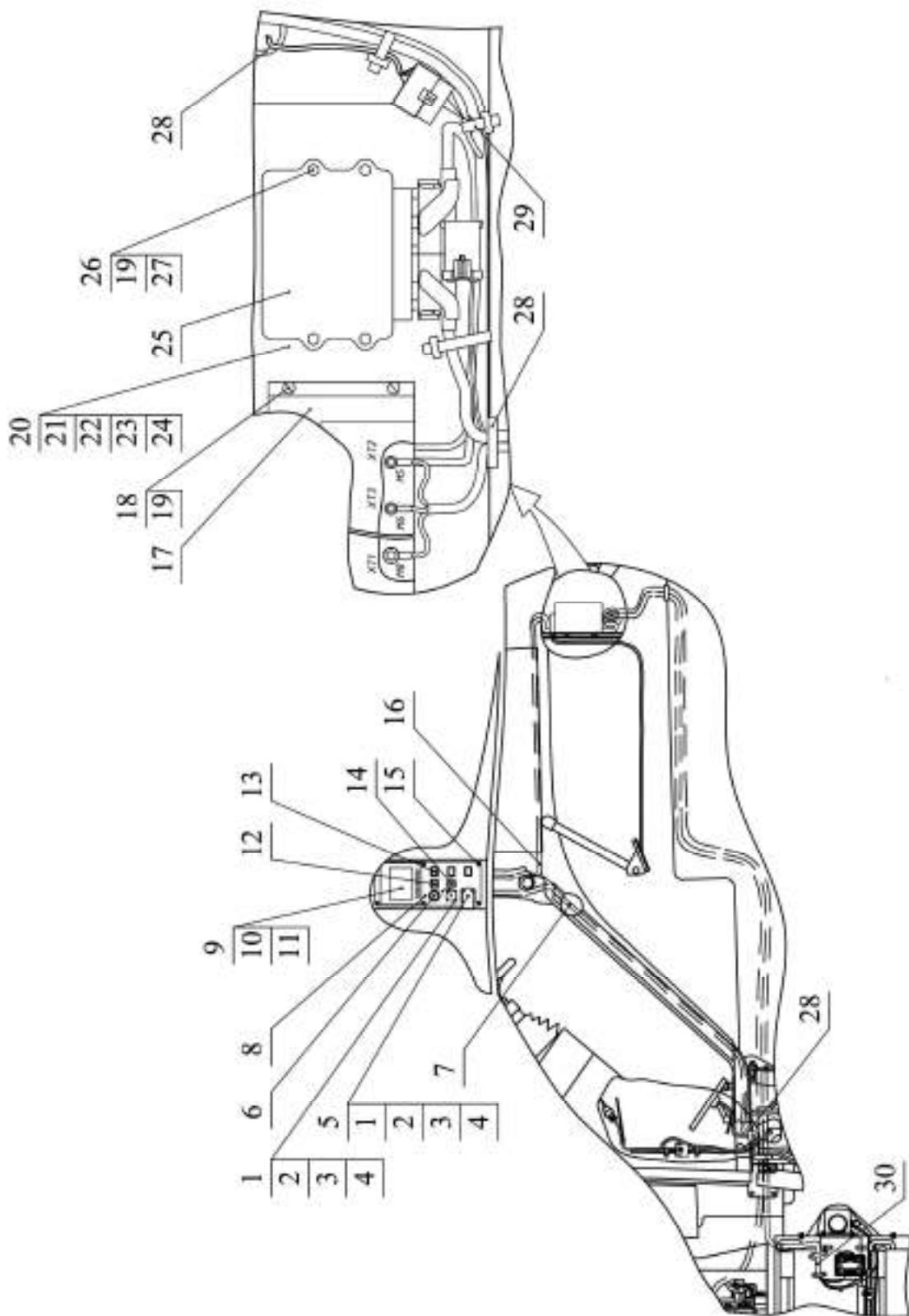


Fig. 87.4 DEUTZ engine control

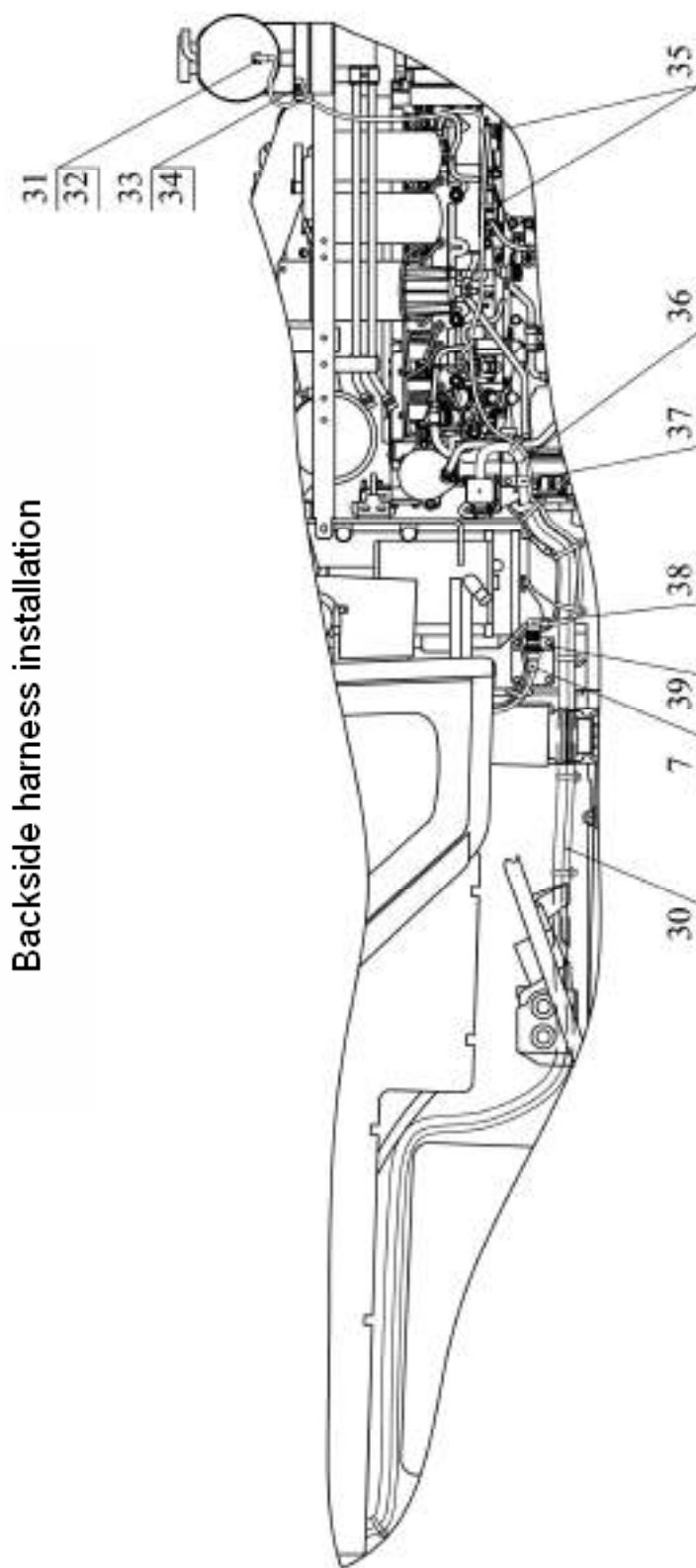


Fig.87.4a DEUTZ engine control

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

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

* enclosed into Deutz engine package