
BELARUS ***920.4/952.4***

with motor D-245.43S3A/D-245.5S3A

952.4-0000010-01 KDS

**CATALOGUE OF PARTS AND
ASSEMBLY UNITS**

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INTRODUCTION

The present catalogue contains the whole range of assembly units and parts for tractors BELARUS 920.4/952.4, equipped with diesel engines D-245.43S3A/D-245.5S3A.

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

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

HOW TO USE THE CATALOGUE

Catalogue includes tractor assembly units and parts.

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

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

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

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

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

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

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

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

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

APPLICATION

The tractors "BELARUS-920.4/952.4" are intended for performance of various agricultural operations with mounted, semi-mounted and trailed machines and implements, for transport and loading operations, driving of fixed and agricultural machines. These tractors are delivered to the customers in the Republic of Belarus and abroad.

The tractor "BELARUS-920.4/952.4" is general-purpose wheeled tractor of traction class 1,4.

The tractor "BELARUS-920.4" is equipped with the engine D-245.43S3A, produced by UP MMZ, with electronic control system, power 62 kW. The emission level of the engine corresponds to environmental requirements of stage IIIA.

The tractor "BELARUS-952.4" is equipped with the engine D-245.5S3A, produced by UP MMZ, with electronic control system, power 70 kW. The emission level of the engine corresponds to environmental requirements of stage IIIA.

The coupling clutch is frictional, one-disk, spring-loaded, with mechanical control. The CC overlays are ceramic-metal.

The gearbox is mechanical synchronized, with synchronized accelerator, that doubles the number of gears.

The rear axle – with the main drive, differential and final drives. Control of DL is electro-hydraulic.

Front driving axle – with main drive, self-locked differential, final drives (planetary-cylindrical reduction units). Drive of front driving axle is transfer gearbox with automatic engagement of FDA, two cardan shafts and intermediate support with overload clutch.

Brakes: Working brakes are multidisk, oil-lubricated ("wet brakes"), located on shafts of the driving gears of the final drives; parking brake is independent, with independent manual control.

Drive of trailer brakes is hydraulic, interlocked with tractor brakes control.

Hydraulic system is remote-cylinder with hydraulic lift, with rear right doubled outlets of hydraulic system.

Rear lift linkage is NU-2, with adjustable cross beams; lower links of lift linkage are telescopic; external link blocking, with telescopic stabilizers.

Rear power take-off shaft (PTO) is independent, two-speed (540 and 1000 min^{-1}) and synchronous. The direction of rotation is clockwise when viewed from the shaft end face. PTO shaft end extensions – PTO 1 (6 splines, 540 min^{-1}), PTO 2 (21 splines, 1000 min^{-1}).

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

The cabin is unified, protective, providing safety, micro-climate, noise and vibration insulation. The cabin is equipped with electrical wipers for front and rear screens, windscreen washer, cabin heater, with a sprung seat Grammer adjustable for operator's height and weight. The additional front working lights are mounted on the brackets of front lights.

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Adopted abbreviations and conventional notations:

GOST – State Standard

OST – Industry-specific standard

TU – Technical Specifications

TU RB – Technical Specifications of the Republic of Belarus

MMZ – Minskiy Motorny Zavod (Minsk Motor Plant)

KDS – Catalogue of parts and assembly units

KD – Catalogue of parts

Russian (Cyrilic Alphabet) Symbols and designations used in Catalogue and corresponding English Equivalents

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

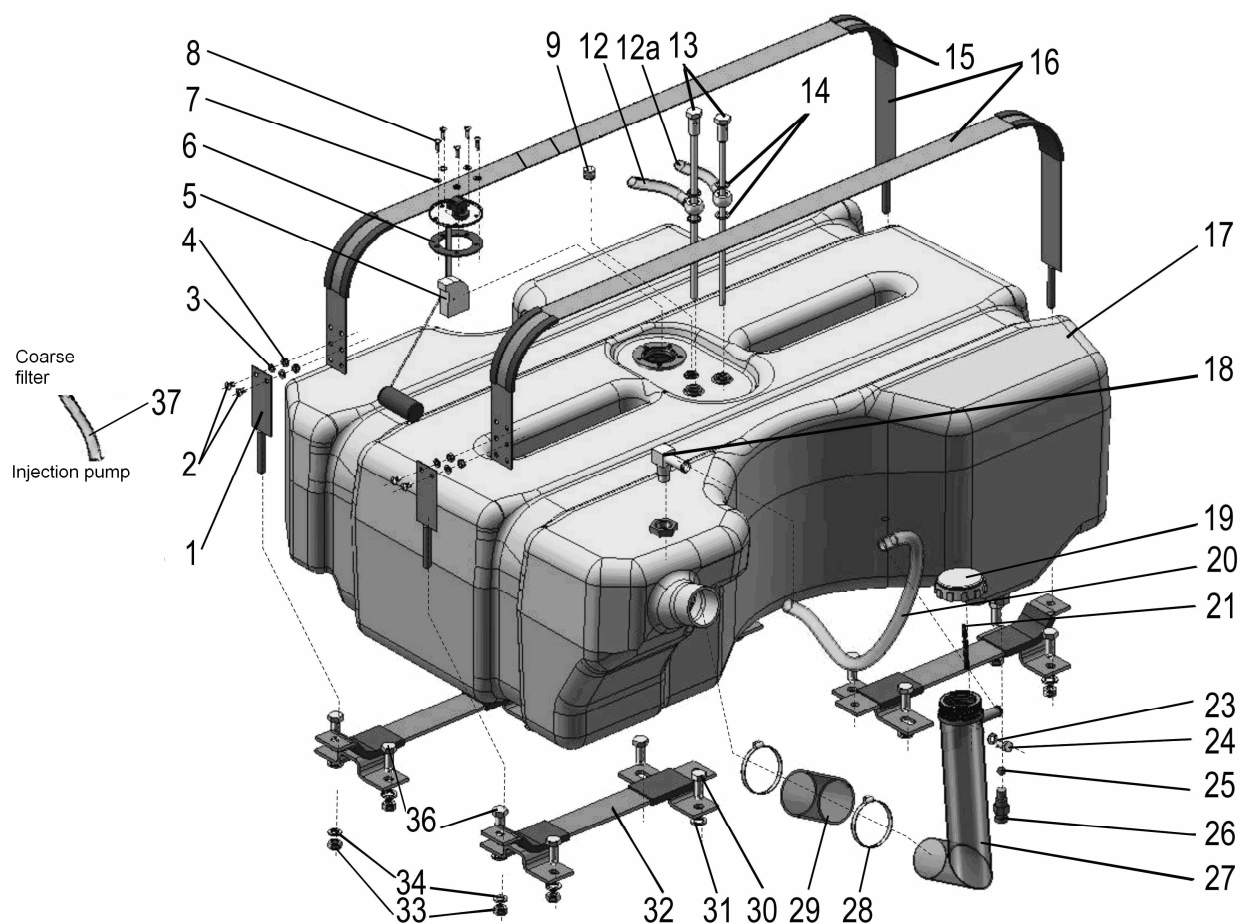


Fig.11.1 Fuel tank

**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	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	920-1101162-10	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
	22	C 8.01.019 GOST 11371-78	1	Washer
	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	Adapter
	27	920-1101260	1	Throat
	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



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Group 11. Fuel system
Subgroup 1108. Fuel supply control

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
11.2		1221.4-1108000	1	Fuel supply control
	1	1221-1108105	1	Bracket
	2	1221-1108350	1	Handle
	5	1221.4-1108004	1	Plate
	6	1221.4-1108007	1	Bracket
	8	3022-1108003	1	Lever
	10	80-1108028	1	Washer
	11	80-1108178	1	Friction washer
	12	80B-1108344	1	Rod
	13	80B-1108347	1	Disk spring
	14	822-1108028	1	Washer
	15	70-1115012	1	Clamp
	16	70-3506027	1	Bushing
	17	2522-6702066-01	3	Bushing
	18	A13.11.000	1	Handle
	20	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	21	M10-6gx45.88.35.019 GOST 7795-70	2	Bolt
	22	M8-6gx25.88.35.019 GOST 7796-70	6	Bolt
	23	M6-6gx25.88.35.019 GOST 7798-70	2	Bolt
	24	M8-6gx14.88.35.019 GOST 7798-70	2	Bolt
	27	M8-6H.6.019 GOST 5915-70	3	Nut
	28	M14x1,5-6H.04.019 GOST 5916-70	2	Nut
	30	2x12.019 GOST 397-79	2	Forelock
	31	6x22 OST 37.001.163-75	2	Pin
	33	6T OST 37.001.115-75	2	Washer
	34	8T OST 37.001.115-75	9	Washer
	35	10 OT OST 37.001.115-75	2	Washer
	38	EAAX-EXP0023 or 225360	1	Electronic pedal
	39	EAAX-EFT1743	1	Manual control sensor

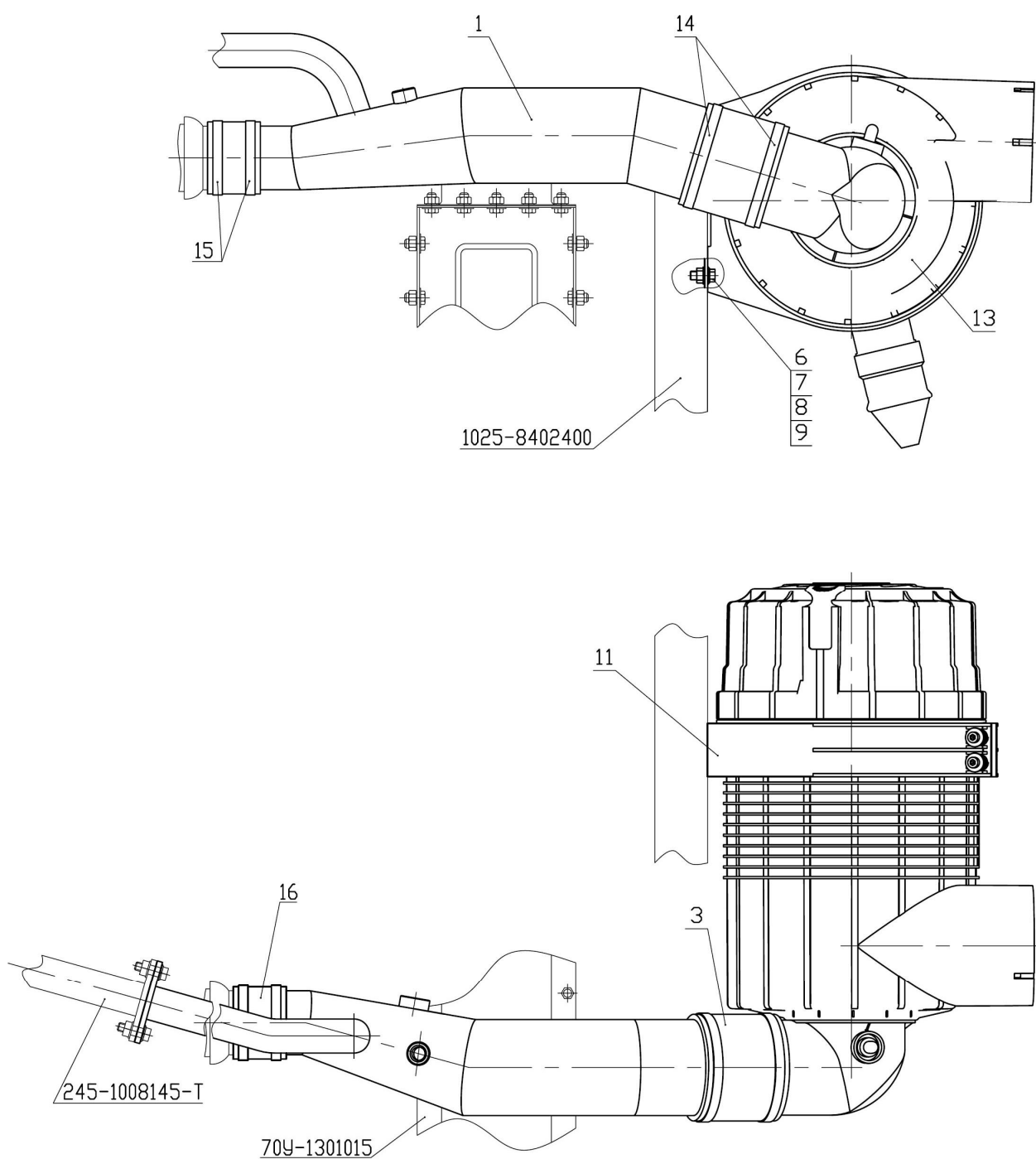


Fig.11.3 Air cleaner installation

Group 11. Fuel system
Subgroup 1109. Air cleaner installation

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
11.3		1025.4-1109125-01		Air cleaner installation
	1	1025-1109010-A	1	Pipe
	3	245-1008029	1	Tube
	6	M8-6gx25.88.35.019 GOST 7796-70	2	Bolt
	7	M8-6H.6.019 GOST 5915-70	2	Nut
	8	C8.01.019 GOST 6958-78	4	Washer
	9	8T OST 37.001.115-75	2	Washer
	11	P78-0532	1	Bracket
	13	FPG 09-0219	1	Air filter (Donaldson)
	14	"NORMA" TORRO 90-110/9-C6W	2	Clamp
	15	"NORMA" TORRO 70-90/9-C6W	2	Clamp
	16	1317.08	1	Silicon tube 60x80 (red)

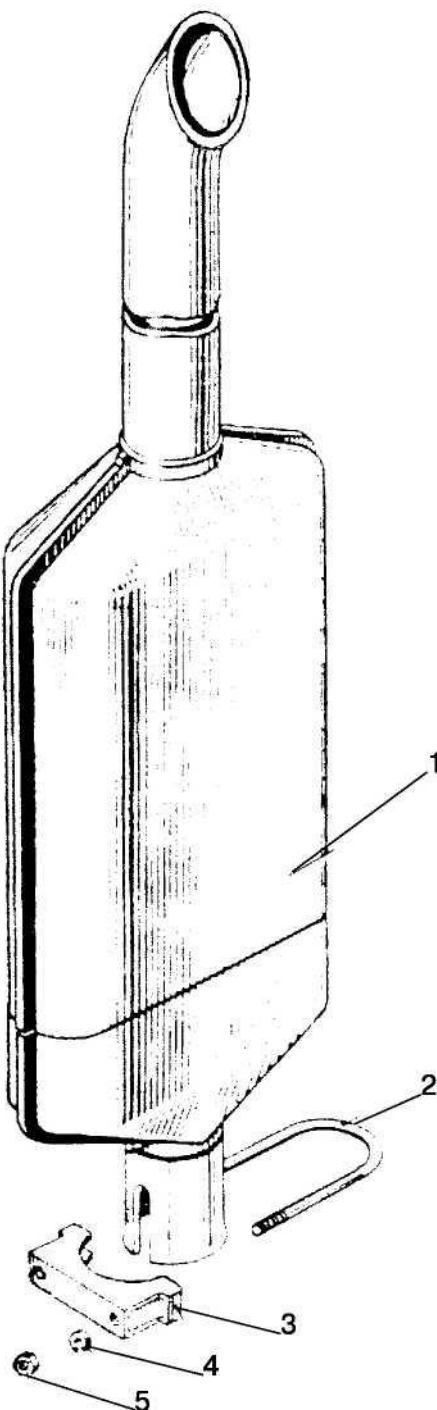


Fig.12.1. Muffler

Group 12. Gas exhaust system
Subgroup 1205. Muffler

Fig.No	Pos.No	Designation	Q-ty	Name
12.1		245-1205015	1	Muffler (1-5)
		245-1205130	1	Clamp (2-5)
	1	245-1205020	1	Muffler
	2	245-1205131	1	Joke
	3	245-1205132	1	Clamp
	4	C 10.01.019 GOST 11371-78	2	Washer
	5	M10-6H.6.019 GOST 5915-70	2	Nut

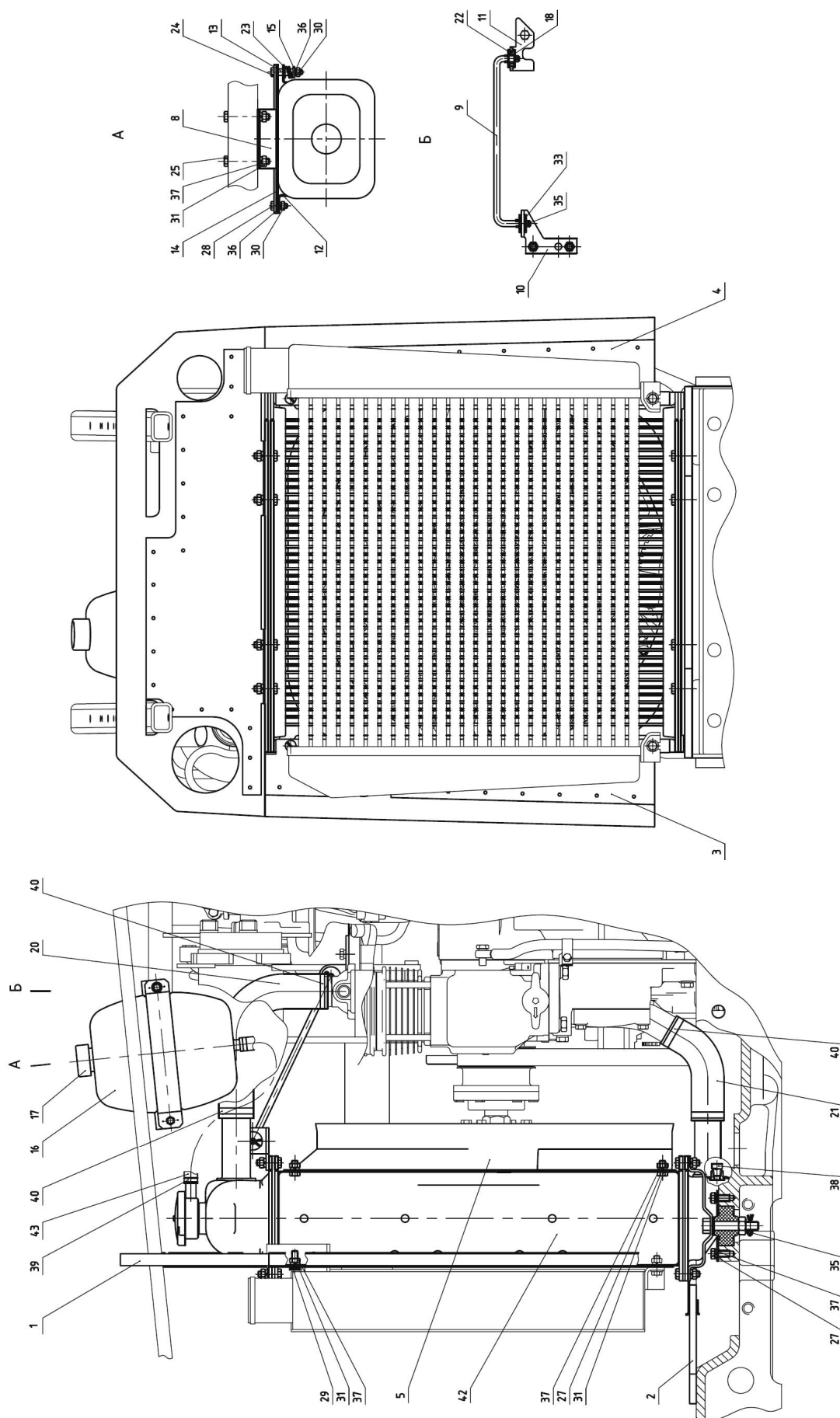


Fig.13.1 Cooling unit

Group 13. Cooling system
Subgroup 1301. Cooling unit

Fig.No	Pos.No	Assembly unit or part number	Q-ty	Name
13.1	1	952.4-1301310	1	Seal
	2	952.4-1301320	1	Seal
	3	952.4-1301330	1	Seal
	4	952.4-1301330-01	1	Seal
	5	70-1309080	1	Fan housing
	8	952.4-1311001	1	Bracket
	9	1025-1302003-B	1	Tie-rod
	10	1520-1302072	1	Bracket
	11	80-1302011	1	Bracket
	12	80-1311002	1	Clamp
	13	80-1311003	1	Bushing
	14	80-1311004	1	Plate
	15	80-1311006	1	Disk
	16	80П-1311010-A	1	Expansion tank
	17	80П-1311011	1	Plug
	18	85-1302071	2	Shock absorber
	20	85-1303001	1	Hose
	21	85-1303010	1	Hose
	22	90-1302004	2	Pipe
	23	54.06.413	1	Spring
	24	M6-6gx40.88.35.019	1	Bolt
	25	M8-6gx55.88.35.019 GOST 7795-70	2	Bolt
	24	M8-6gx16.88.35.019 GOST 7796-70	8	Bolt
	28	M6-6gx16.88.35.019 GOST 7798-70	1	Bolt
	29	B.M8-6gx25.58.019 GOST 17475-80	2	Screw
	30	M6-6H.6.019 GOST 5915-70	2	Nut
	31	M8-6H.6.019 GOST 5915-70	8	Nut
	33	C8.01.019 GOST 6958-78	4	Washer
	35	3,2x18.019 GOST 397-79	4	Forelock
	36	6T OST 37.001.115-75	2	Washer
	37	8T OST 37.001.115-75	12	Washer
	38	КГ 1/4". A12.019 TU 23.1.506-91	1	Plug
	39	"NORMA "TORRO 16-25/9-C6W	2	Clamp
	40	"NORMA "TORRO 32-50/9-C6W	4	Clamp
	42	1025.13.01.010 Б	1	Water radiator
	43	14x23-1,6 GOST 10362-76	1	Hose (400 mm)

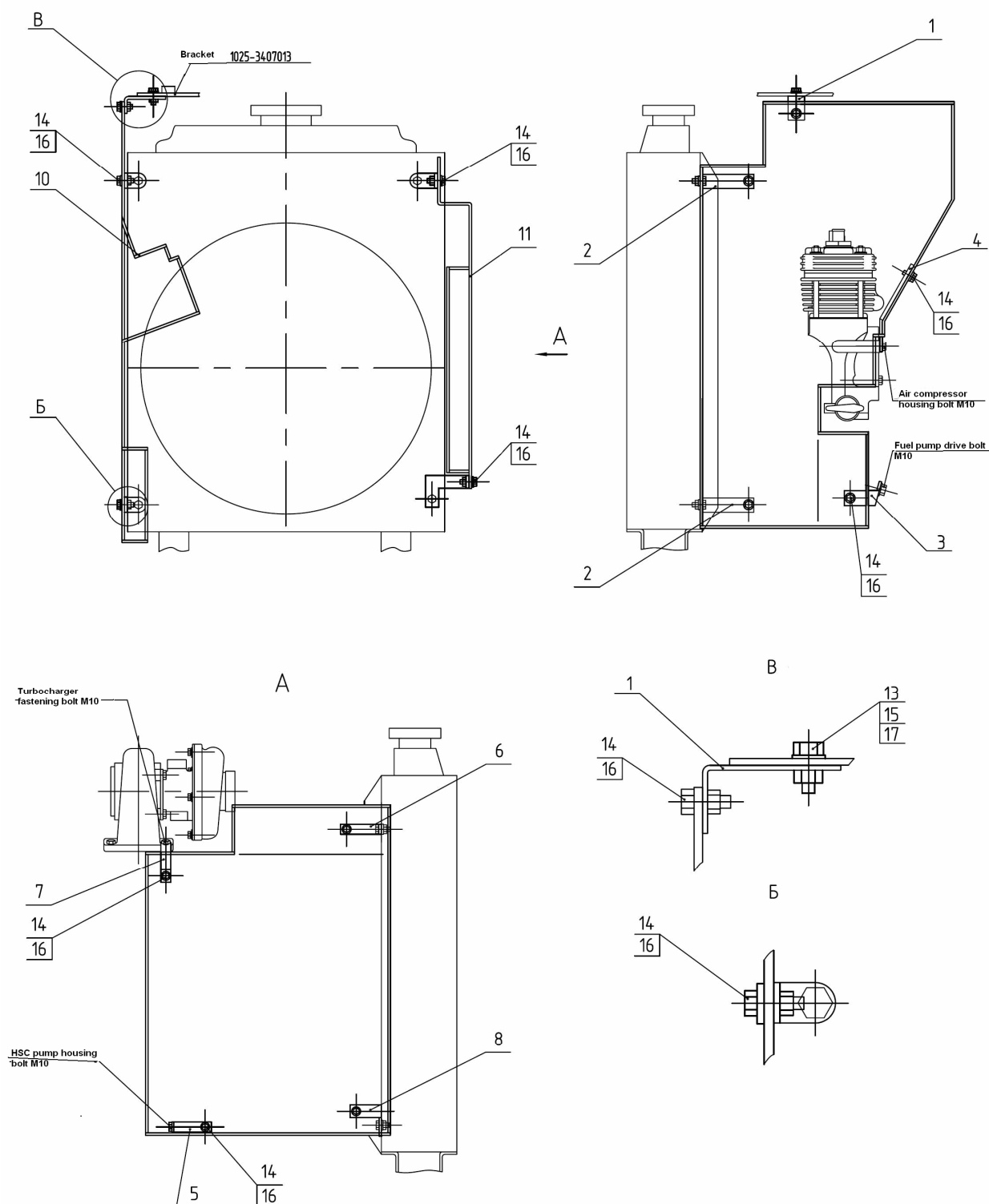


Fig.13.2 Fan guard

Group 13. Cooling system
Subgroup 1309. Fan guard

Fig.No	Pos.No	Designation	Q-ty	Name
13.2		1025-1309300	1	Fan guard
	1	1025-1309070	1	Bracket
	2	1025-1309075	2	Bracket
	3	1025-1309075-01	1	Bracket
	4	1025-1309075-02	1	Bracket
	5	1025-1309080	1	Bracket
	6	1025-1309080-01	1	Bracket
	7	1025-1309085	1	Bracket
	8	1025-1309090	1	Bracket
	10	1025-1309041	1	Left guard
	11	1025-1309051-B	1	Right guard
	13	M8-6gx20.88.35.019 GOST 7796-70	1	Bolt
	14	M6-6gx14.88.35.019 GOST 7798-70	9	Bolt

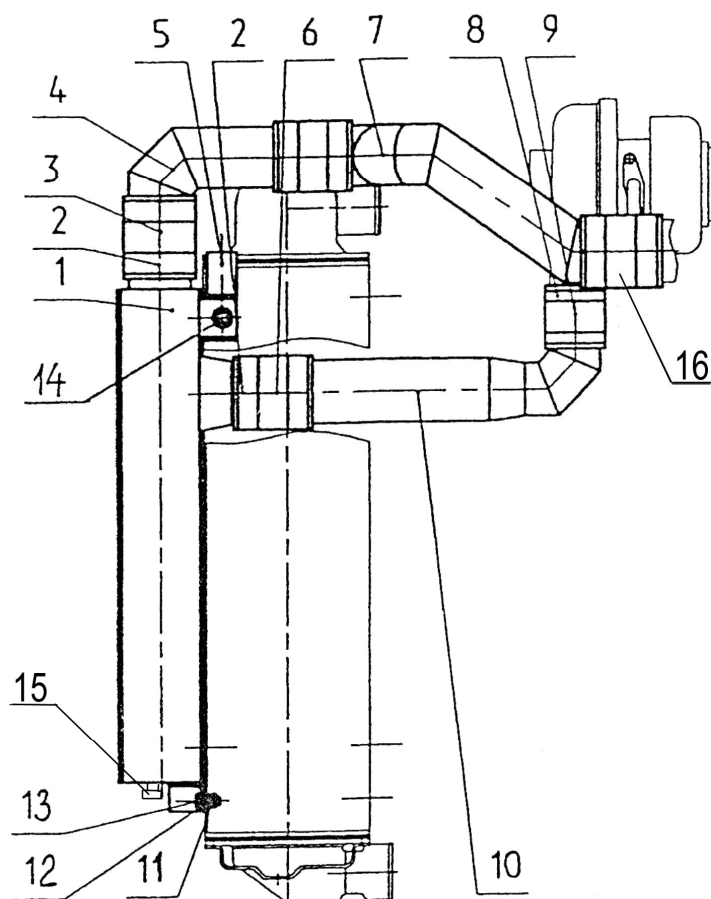


Fig.13.3 Cooler installation

Group 13. Cooling system
Subgroup 1317. Cooler installation

Fig.No	Pos.No	Designation	Q-ty	Name
13.3	1	1025-1317100	1	Charged air cooler
	2	"NORMA" GBS 71/25 W2	8	Clamp
	3		2	Silicon tube 60x80 blue
	4	1025П-1317600	1	Air pipeline
	5	1025-1317735	2	Bracket
	6		1	Silicon tube 60x80 red
	7	1025-1317610	1	Air pipeline
	8	"NORMA" GBS 61/20 W2	2	Clamp
	9		1	Silicon tube 50x100 red
	10	1025П-1317620	1	Air pipeline
	11	M8-6H.6.019 GOST 5915-70	2	Nut
	12	C 8.01.019 GOST 6958-78	4	Washer
	13	8T OST 37.001.115-75	4	Washer
	14	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	15	КГ 1/4".A12.019 TU 23.1.506-91	2	Plug
	16		1	Silicon tube 63x80 blue

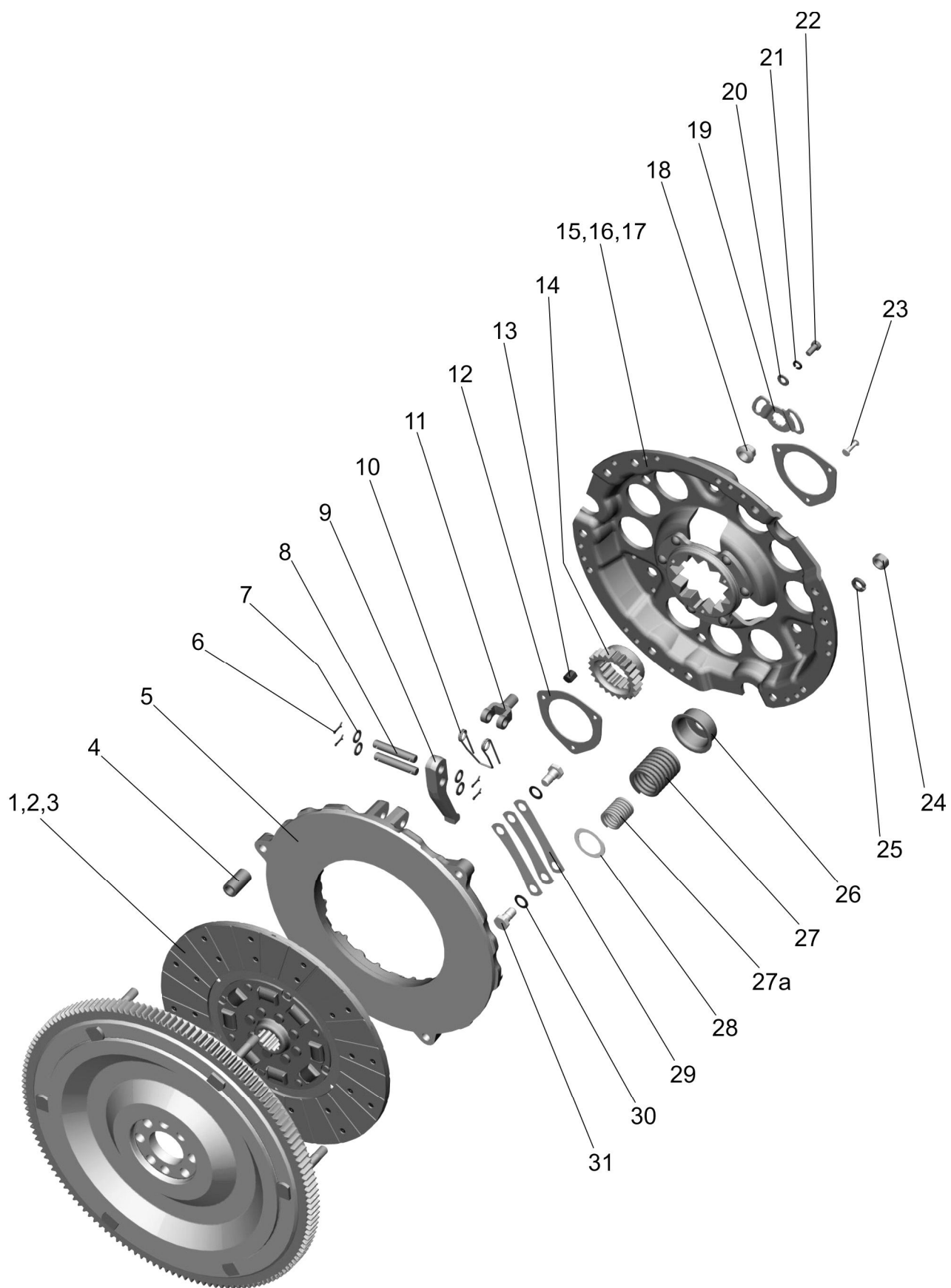


Fig.16.1. Clutch installation 240-1005009-03

Group 16. Clutch
Subgroup 1601. Clutch installation

Fig.No	Pos.No	Designation	Q-ty		Name
			240-1005009-03	240-1005009-06*	
16.1, 16.1a		80-1601090-A	1	-	Clutch disk (5-15, 18-31)
		80-1601090	-	1	Clutch disk (5-15, 18-27, 28-31)
		85-1601120-B	1	1	Backing plate (12-15, 23)
	1	85-1601130-01 or 85-1601130-02	1	-	Driven disk (engages 2, 3)
	1a	80-1601130-A	-	1	Driven disk (engages 2a, 3a)
	2	70-1601138-01 or 70-1601138-02	2	-	Friction plate (enclosed into 1)
	2a	566528	-	12	Segment GBV 156400 (7650861d) (enclosed into 1a)
	3	2-4x8.32 GOST 12642-80	24	-	Non-threaded fastener (enclosed into 1)
	3a	566529	-	12	Non-threaded fastener TT2 7050914 (enclosed into 1a)
	4	70-1601074	6	6	Bushing
	5	80-1601093	1	1	Pressure disk
	6	3,2x18.019 GOST 397-79	12	12	Forelock
	7	85-1601108	12	12	Washer
	8	85-1601096	6	6	Pin
	9	85-1601094	3	3	Release lever
	10	85-1601083	3	3	Spring
	11	85-1601097	3	3	Fork
	12	70-1601062	2	2	Washer
	13	70-1601091	12	12	Damper
	14	70-1601053	1	1	Bushing
	15	85-1601125-B	1	1	Backing plate (assembled with 16 and 17)
	16	70-1601051	1	1	Hub (enclosed into 15)
	17	8x22.01 GOST 10299-80	6	6	Non-threaded fastener (enclosed into 15)
	18	85-1601109-A	3	3	Adjusting nut
	19	85-1601086	3	3	Lock washer
	20	C 8.01.019 GOST 11371-78	6	6	Washer
	21	8T OST 37.001.115-75	6	6	Washer
	22	M8-6gx16.88.35.019 GOST 7796-70	6	6	Bolt
	23	6x30.01 GOST 10299-80	3	3	Non-threaded fastener
	24	M12x1,25-6H.6.019 GOST 5915-70	9	9	Nut
	25	12 OT OST 37.001.115-75	9	9	Washer
	26	85-1601072-B	9	9	Cage
	27	85-1601115	9	9	Spring
	27a	77.55.121-1	6	-	Spring
	28	85-1601118-B	9	9	Insulating washer
	29	85-1601124	9	9	Plate
	30	85-1601121	6	6	Washer
	31	85-1601126	6	6	Bolt

*upon request

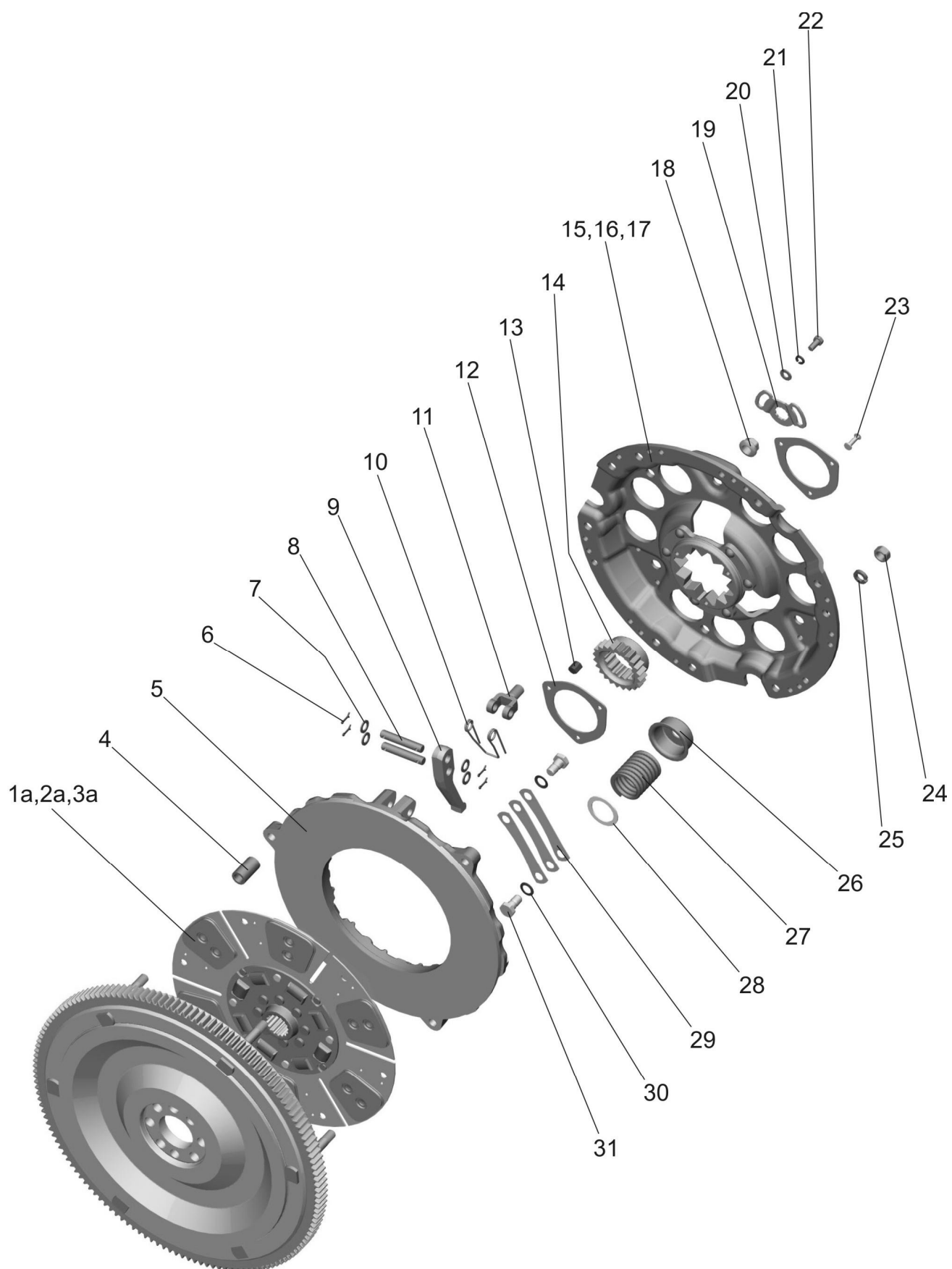


Fig.16.1a. Clutch installation 240-1005009-06

Group 16. Clutch
Subgroup 1601. Clutch installation

Fig.No	Pos.No	Designation	Q-ty		Name
			240-1005009-03	240-1005009-06*	
16.1, 16.1a		80-1601090-A	1	-	Clutch disk (5-15, 18-31)
		80-1601090	-	1	Clutch disk (5-15, 18-27, 28-31)
		85-1601120-B	1	1	Backing plate (12-15, 23)
	1	85-1601130-01 or 85-1601130-02	1	-	Driven disk (engages 2, 3)
	1a	80-1601130-A	-	1	Driven disk (engages 2a, 3a)
	2	70-1601138-01 or 70-1601138-02	2	-	Friction plate (enclosed into 1)
	2a	566528	-	12	Segment GBV 156400 (7650861d) (enclosed into 1a)
	3	2-4x8.32 GOST 12642-80	24	-	Non-threaded fastener (enclosed into 1)
	3a	566529	-	12	Non-threaded fastener TT2 7050914 (enclosed into 1a)
	4	70-1601074	6	6	Bushing
	5	80-1601093	1	1	Pressure disk
	6	3,2x18.019 GOST 397-79	12	12	Forelock
	7	85-1601108	12	12	Washer
	8	85-1601096	6	6	Pin
	9	85-1601094	3	3	Release lever
	10	85-1601083	3	3	Spring
	11	85-1601097	3	3	Fork
	12	70-1601062	2	2	Washer
	13	70-1601091	12	12	Damper
	14	70-1601053	1	1	Bushing
	15	85-1601125-B	1	1	Backing plate (assembled with 16 and 17)
	16	70-1601051	1	1	Hub (enclosed into 15)
	17	8x22.01 GOST 10299-80	6	6	Non-threaded fastener (enclosed into 15)
	18	85-1601109-A	3	3	Adjusting nut
	19	85-1601086	3	3	Lock washer
	20	C 8.01.019 GOST 11371-78	6	6	Washer
	21	8T OST 37.001.115-75	6	6	Washer
	22	M8-6gx16.88.35.019 GOST 7796-70	6	6	Bolt
	23	6x30.01 GOST 10299-80	3	3	Non-threaded fastener
	24	M12x1,25-6H.6.019 GOST 5915-70	9	9	Nut
	25	12 OT OST 37.001.115-75	9	9	Washer
	26	85-1601072-B	9	9	Cage
	27	85-1601115	9	9	Spring
	27a	77.55.121-1	6	-	Spring
	28	85-1601118-B	9	9	Insulating washer
	29	85-1601124	9	9	Plate
	30	85-1601121	6	6	Washer
	31	85-1601126	6	6	Bolt

*upon request

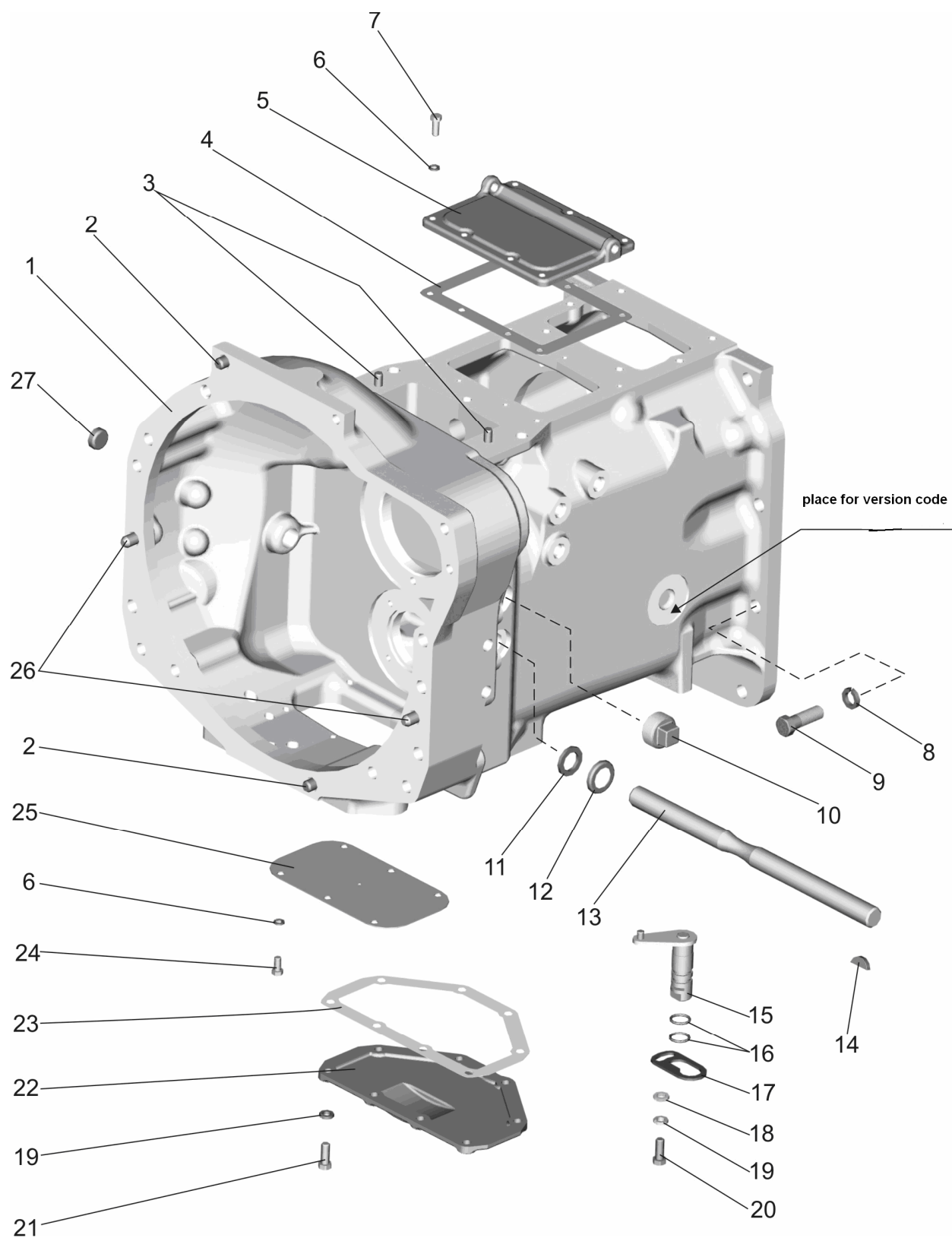


Fig.16.2. Clutch housing

Group 16. Clutch
Subgroup 1601. Clutch housing

Fig.No	Pos. No	Designation	Q-ty	Name	Remark
16.2		74-1600010-02	1*	Clutch housing ($n_{eng}=1800 \text{ min}^{-1}$, synchronized reduction gear unit) Fig.16.2: 1, 3-7, 10-25; Fig.16.3: 3-8; Fig.16.4: 1-5, 6a, 7-10, 11a, 12-26, 27a, 28a, 29a,30a, 31a, 32; Fig.16.5a: 1a, 2a, 3-8; Fig.17.2: 1-7, 8, 9.	Version code 12
		74-1600010-03	1	Clutch housing ($n_{eng}=1800 \text{ min}^{-1}$, synchronized accelerator) Fig.16.2: 1, 3-7, 10-25; Fig.16.3: 3-8; Fig.16.4: 1-5, 6a, 7-10, 11a, 12-26, 27a, 28a, 29a,30a, 31a, 32; Fig.16.5a: 1a, 2a, 3-8. Fig.17.2: 1-7, 8a, 9.	Version code 13
		50-1600010-06	1*	Clutch housing ($n_{eng}=1800 \text{ min}^{-1}$, mechanical reduction gear unit) Fig.16.2: 1, 3-7, 10-25; Fig.16.3: 3-8; Fig.16.4: 1-5, 6a, 7-10, 11a, 12-26, 27a, 28a, 29a,30a, 31a, 32; Fig.16.5a: 1a, 2a, 3-8; Fig.17.1: 1-7, 8, 9, 10.	Version code 06
		50-1600010-08	1*	Clutch housing ($n_{eng}=1800 \text{ min}^{-1}$, mechanical accelerator) Fig.16.2: 1, 3-7, 10-25; Fig.16.3: 3-8; Fig.16.4: 1-5, 6a, 7-10, 11a, 12-26, 27a, 28a, 29a,30a, 31a, 32; Fig.16.5a: 1a, 2a, 3-8; Fig.17.1: 1-7, 8a, 9, 10.	Version code 08
		P70-1600010-02	1*	Clutch housing ($n_{eng}=1800 \text{ min}^{-1}$, shuttle gear) Fig.16.2: 1, 3-7, 10-25; Fig.16.3: 3-8; Fig.16.4: 1-5, 6a, 7-10, 11a, 12-26, 27a, 28a, 29a,30a, 31a, 32; Fig.16.5a: 1a, 2a, 3-8; Fig.17.4: 1-10, 17-19, 25-27.	Version code 22

* Upon request

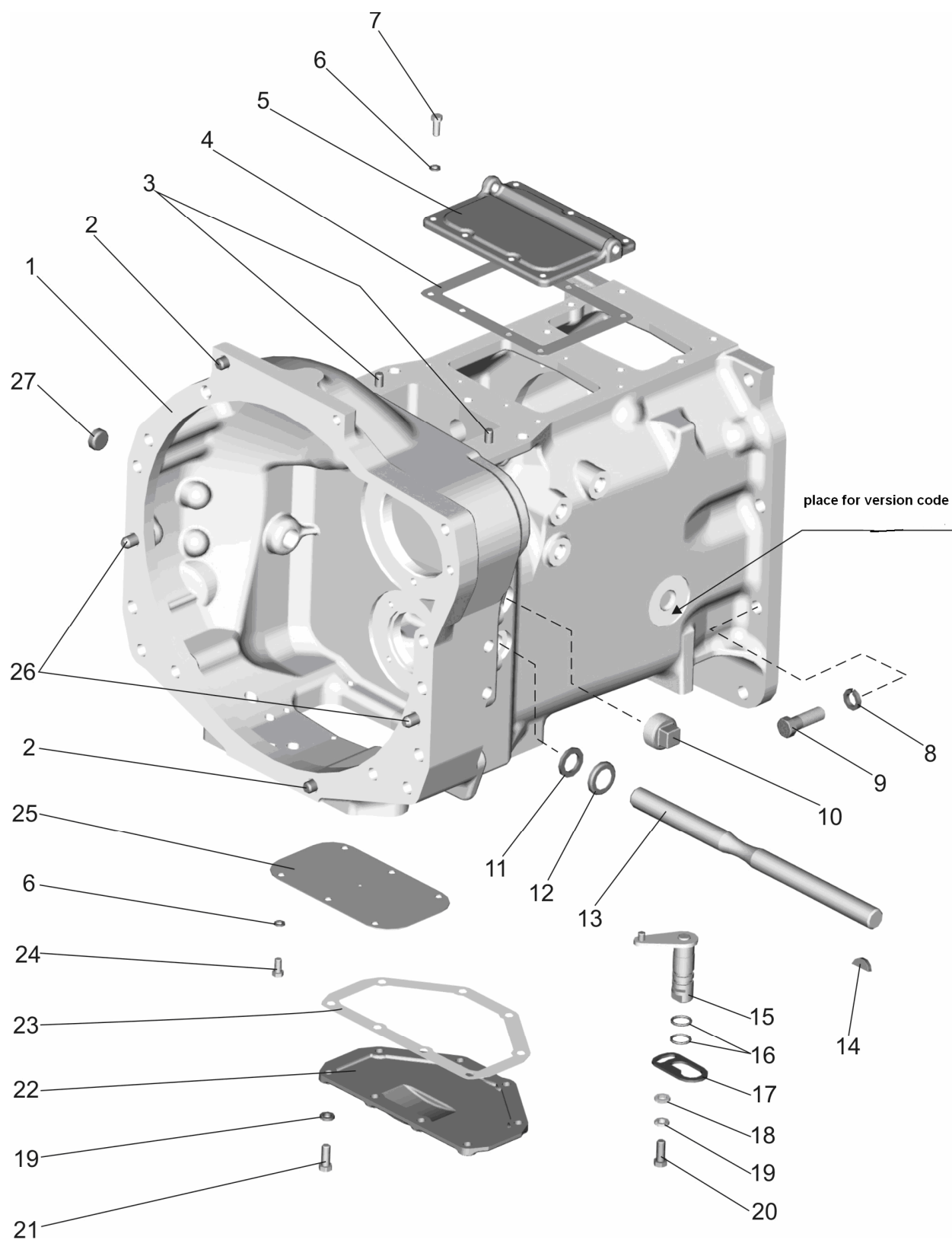


Fig.16.2. Clutch housing

Group 16. Clutch
Subgroup 1601. Clutch housing

Fig. No	Pos. No	Designation	Q-ty	Name
16.2	1	70-1601015	1	Clutch housing
		70-1601015-03	1**	Clutch housing
		70-1601015-04	1***	Clutch housing
	2	Д01-015	2	Adjusting pin
	3	ШЦК 10x25	2	Pin
	4	50-1601345	1	Gasket
	5	70-1601344	1	Cover
	6	8T OST 37.001.115-75	11	Washer
	7	M8-6gx20.88.35.019 GOST 7796-70	7	Bolt
	8	16 OT OST 37.001.115-75	10	Washer
	9	M16-6gx50.88.35.019 GOST 7796-70	10	Bolt
	10	ПК КГ 1¼"	1	Plug
	11	80-4608024	1	Ring
	12	36-1601016	1	Dust deflector housing
	13	50-1601215	1	Shaft
	14	СШ-611	1	Key 6x11
	15	70-1601140	1	Shaft
	16	020-025-30-1-4 GOST 18829-73/GOST 9833-73	2	Ring
	17	80-1601099	1	Plate
	18	C 10.01.019 GOST 11371-78	1	Washer
	19	10 OT OST 37.001.115-75	9	Washer
	20	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	21	M10-6gx25.88.35.019 GOST 7796-70	8	Bolt
	22	50-1601315	1	Cover
	23	70-1601314	2	Gasket
	24	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	25	50-1601341	1	Cover
	26	50-1601352	2	Adjusting pin
	27	50-1601022	1	Blind plug

**Upon request (except versions with shuttle gear)

***For versions with shuttle gear

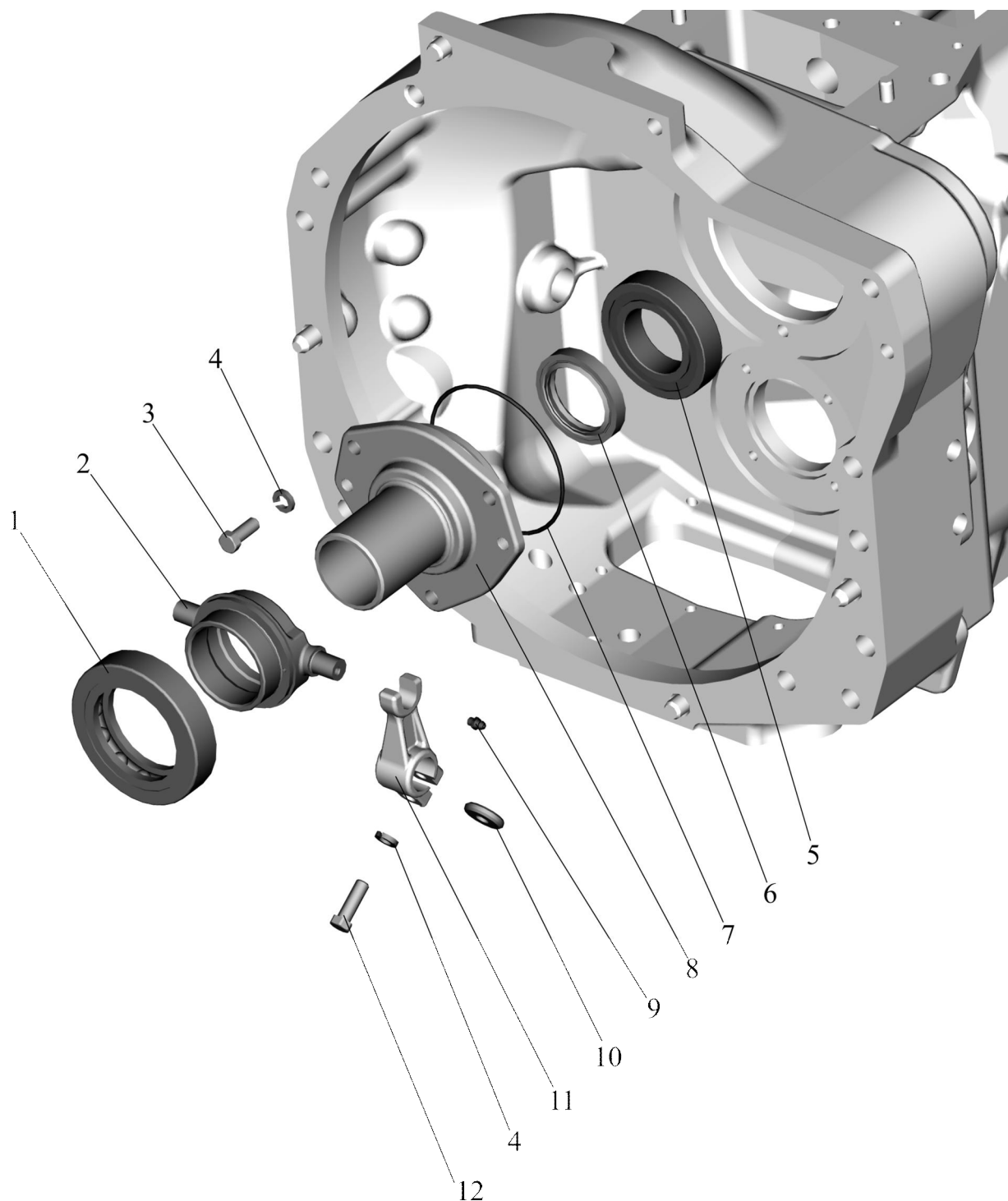


Fig.16.3. Clutch housing. Shifter.

Group 16. Clutch
Subgroup 1601. Clutch housing. Shifter.

Fig. No	Pos.No	Designation	Q-ty	Name
16.3		50-1601180-A	1	Shifter (engages 1,2,9)
	1	986714K1C23	1	Bearing
	2	50-1601185-A	1	Shifter
	3	M10-6gx25.88.35.019 GOST 7796-70	3	Bolt
	4	10 OT OST 37.001.115-75	5	Washer
	5	60210 AYШ1 GOST 7242-81	1	Bearing
	6	240-1002055	1	Collar (enclosed into 8)
	7	110-115-30-1-4 GOST 18829-73/9833-73	1	Ring
	8	50-1601172-A	1	Shifter bracket (assembled with 6)
	9	1.1.Ц9.xp GOST 19853-74	1	Oiler
	10	50-1601218	2	Key
	11	50-1601203	2	Fork
	12	M10-6gx30.88.35.019 GOST 7796-70	2	Bolt

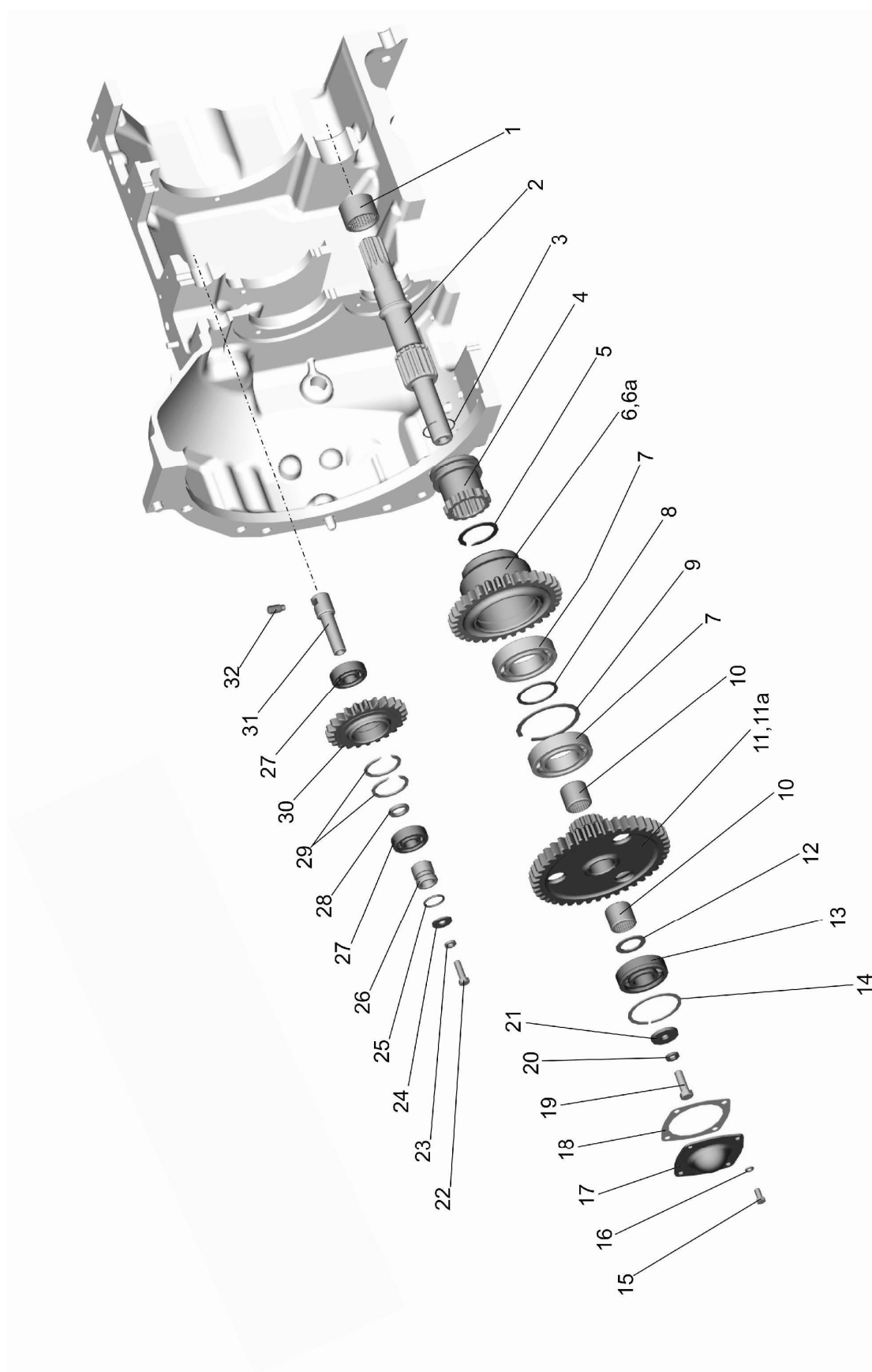


Fig.16.4. Clutch housing (PTO shaft drive, linkage hydraulic system pump drive)

Group 16. Clutch
Subgroup 1601. Clutch housing
(PTO shaft drive, linkage hydraulic system pump drive)

Fig.No	Pos.No	Designation	Q-ty	Name
16.4		50-1601240	1	PTO shaft gears (5-11)
		50-1601330-A	1	Gear (27-30)
	1	942/40 GOST 4060-78	1	Bearing
	2	70-1601021-B	1	Driven shaft
	3	70-1601076	1	Ring
	4	70-1601081	1	Coupling
	5	2C50 GOST 13940-86	1	Ring
	6	50-1601086	1	PTO shaft drive gear
	7	210 AYШ1 GOST 8338-75	2	Bearing
	8	70-1601083	1	Distance washer
	9	2C90 GOST 13941-86	1	Ring
	10	943/30 GOST 4060-78	2	Bearing
	11	50-1601088-B	1	PTO shaft drive gear
	12	70-1601082	1	Washer
	13	6-50306K GOST8338-75/GOST2893-82	1	Bearing
	14	72 GOST 2893-82	1	Ring
	15	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	16	8T OST 37.001.115-75	4	Washer
	17	50-1601089	1	Cover
	18	50-1601091	1	Gasket
	19	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	20	12 OT OST 37.001.115-75	1	Washer
	21	50-1601038	1	Washer
	22	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	23	10 OT OST 37.001.115-75	1	Washer
	24	C 10x6.01.019 GOST 6958-78	1	Washer
	25	025-030-30-1-4 GOST 18829-73/9833-73	1	Ring
	26	50-1601336	1	Bushing
	27	304A GOST 8338-75	2	Bearing
	28	50-1601333	1	Distance washer
	29	50-1701464	2	Spring ring
	30	50-1601331-A	1	Intermediate gear
	31	50-1601335	1	Gear axis
	32	B.M12-6gx25.14H.019 GOST 1478-93	1	Screw

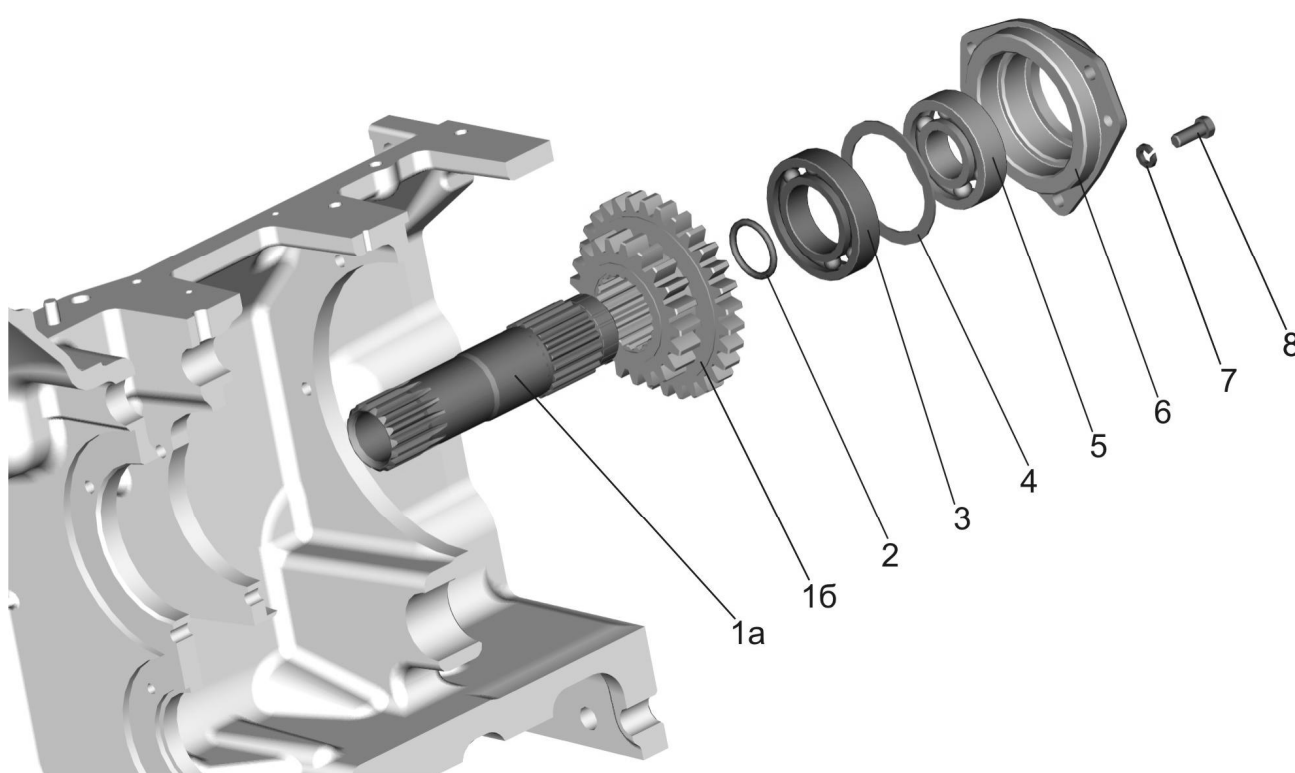


Fig.16.5. Clutch housing. PTO shaft drive. ($n_{\text{eng}}=1800 \text{ min}^{-1}$)

Group 16. Clutch
Subgroup 1601. Clutch housing. PTO shaft drive.

Fig.No	Pos.No	Designation	Q-ty	Name
16.5	1a	50-1601023	1	Shaft
	16	50-1601024	1	Gear
	2	50-1601321	1	O-ring
	3	210 AYШ1 GOST8338-75	1	Bearing
	4	50-1601027	1	Thrust washer
	5	307A GOST 8338-75	1	Bearing
	6	70-1601028	1	Bracket
	7	10 OT OST 37.001.115-75	3	Washer
	8	M10-6gx25.88.35.019 GOST 7796-70	3	Bolt

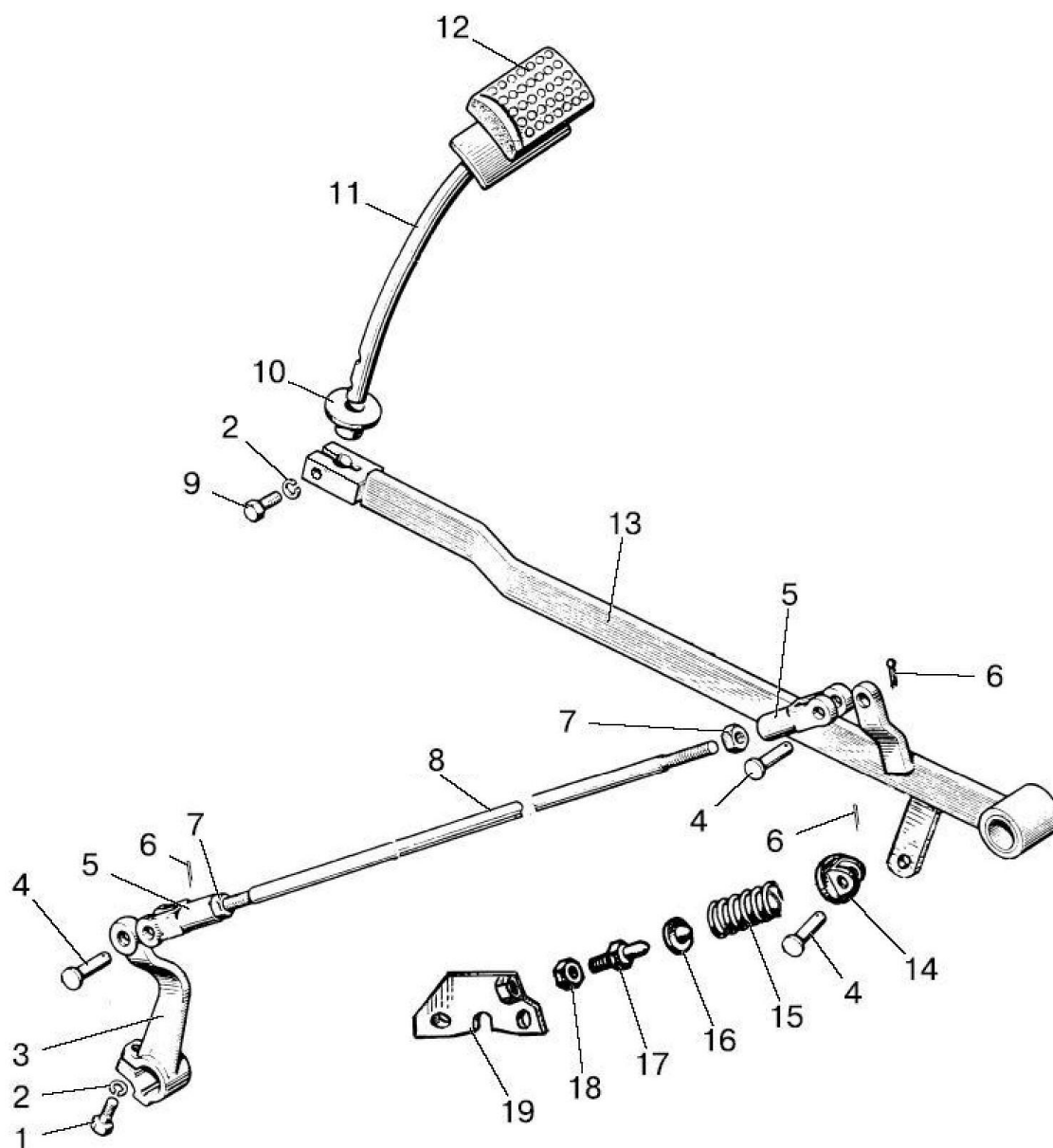


Fig.16.6. Clutch control

Group 16. Clutch
Subgroup 1602. Clutch control

Fig.No	Pos.No	Designation	Q-ty	Name
16.6		80-1602010-E	1	Clutch control (1-19)
		85-1602110-E	1	Rod (5,7,8)
	1	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	2	12 OT OST 37.001.115-75	2	Washer
	3	80-1601219-E	1	Lever
	4	12x32 OST 37.001.163-75	3	Pin
	5	50-3502203	2	Fork
	6	3,2x18.019 GOST 397-79	3	Forelock
	7	M12x1,25-6H.6.019 GOST 5915-70	2	Nut
	8	85-1602112-E	1	Rod
	9	M12-6gx30.88.35.019 GOST 7796-70	1	Bolt
	10	80-3503158-A	1	Seal
	11	80-1602040-E	1	Cushion pin
	12	A13.33.002	1	Case
	13	80-1602020-E1	1	Pedal
	14	50-1602027	1	Thrust
	15	50-1602032	1	Spring
	16	50-1602029	1	Thrust
	17	80-1602033	1	Stop bolt
	18	M16-6H.6.019 GOST 5916-70	1	Nut
	19	80-1602075-E	1	Bracket

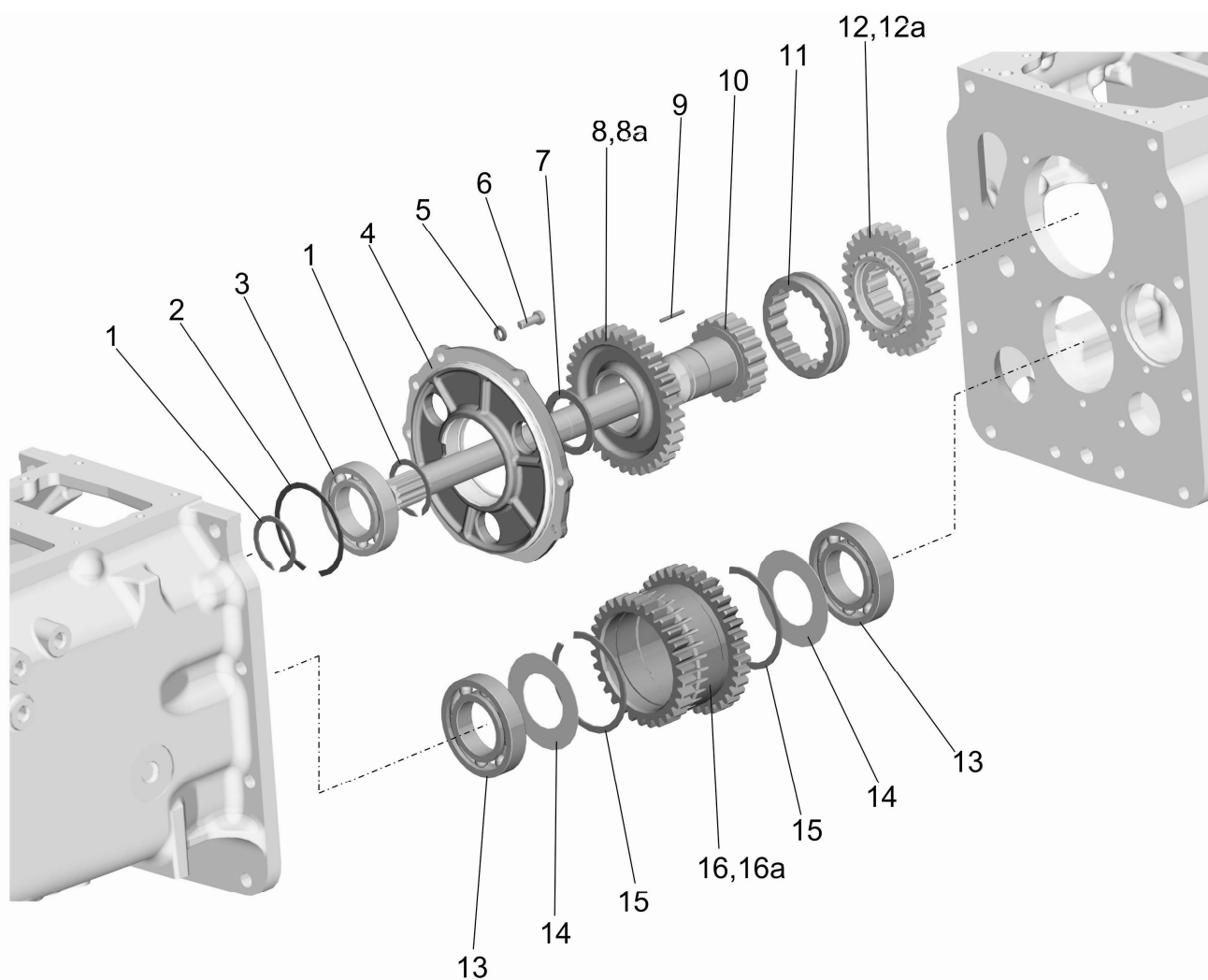


Fig.17.1. Mechanical step-down reduction gear unit/mechanical accelerator

Group 17. Gear box
**Subgroup 1721. Mechanical step-down reduction gear unit/
mechanical accelerator**

Fig.No	Pos.No	Designation	Q-ty		Name
			ep-down reduc tion gear unit*	Accelerator*	
17.1		70-1721020	1	-	Coupling shaft with cover (1-4,7,8-10)
		50-1721020	-	1	Coupling shaft with cover (1-4,7,8a-10)
		70-1721040	1	-	Gear (13-16)
		50-1721040	-	1	Gear (13-16a)
	1	2C55 GOST 13940-86	2	2	Ring
	2	2C100 GOST 13941-86	1	1	Ring
	3	211 AYШ1 GOST8338-75	1	1	Bearing
	4	70-1721022	1	1	Thrust cover
	5	10 OT OST 37.001.115-75	4	4	Washer
	6	M10-6gx25.88.35.019 GOST 7796-70	4	4	Bolt
	7	70-1721023	1	1	Washer
	8	70-1721031	1	-	Gear
	8a	50-1721031	-	1	Gear
	9	4x34,8A3 GOST 6870-81	47	47	Roller
	10	70-1721113-A	1	1	Coupling shaft
	11	70-1721045	1	1	Gear coupling
	12	70-1721025	1	-	Gear
	12a	50-1721025	-	1	Gear
	13	212 AYШ1 GOST 8338-75	2	2	Bearing
	14	70-1721318	2	2	Washer
	15	2C110 GOST 13941-86	2	2	Ring
	16	70-1721041	1	-	Gear
	16a	50-1721041	-	1	Gear

* see table for figure 16.2

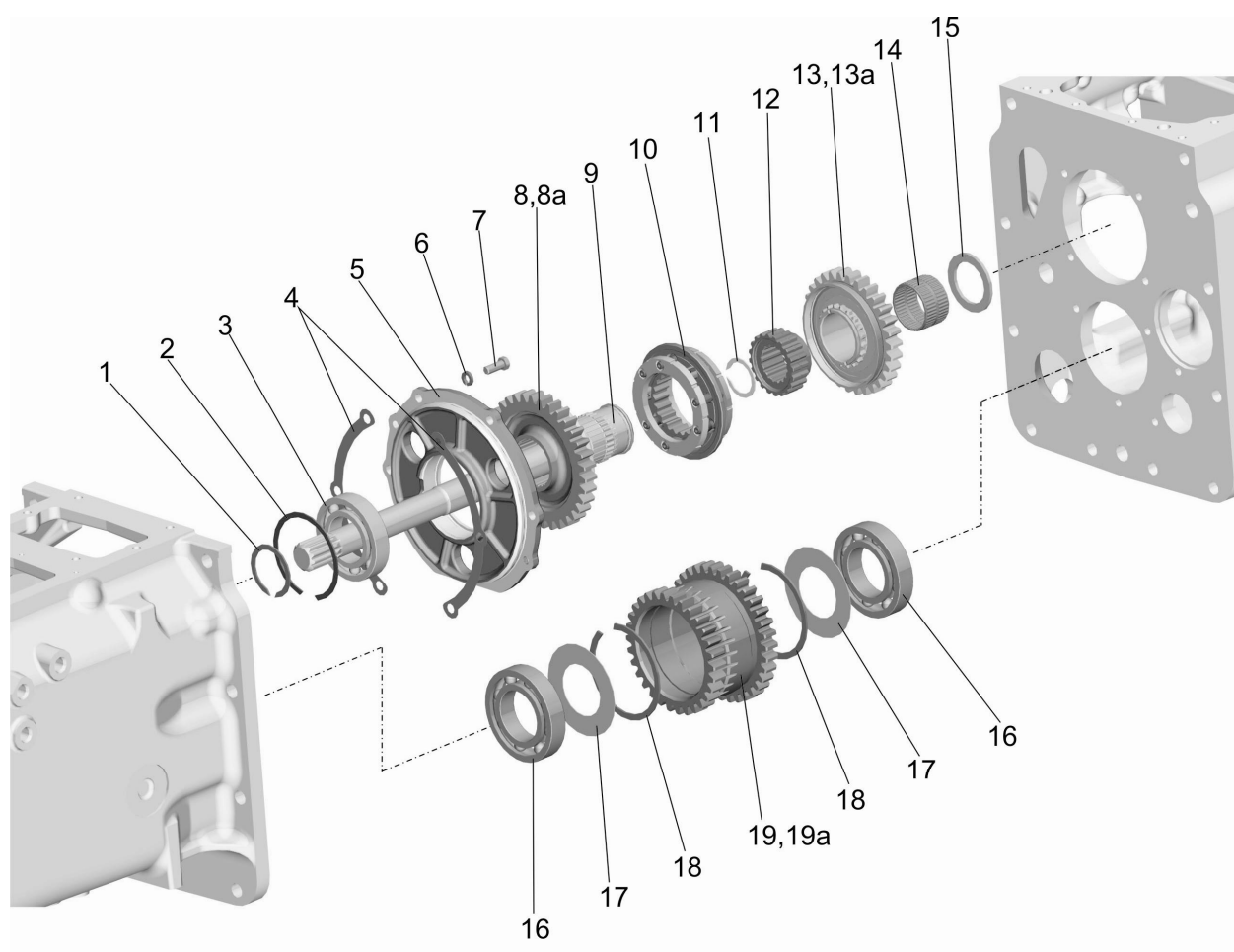


Fig.17.2. Synchronized step-down reduction gear unit/ synchronized accelerator

Group 17. Gear-box
**Subgroup 1721. Synchronized step-down reduction gear unit/
synchronized accelerator**

Fig.No	Pos. No	Designation	Q-ty		Name
			ep-down reduc tion gear unit*	Accelerator *	
17.2		74-1721020	1	-	Shaft assembly (1-3,5,8,9)
		74-1721020-01	-	1	Shaft assembly (1-3,5,8a,9)
		70-1721040	1	-	Gear (16-19)
		50-1721040	-	1	Gear (16-19a)
	1	2C55 GOST 13940-86	1	1	Ring
	2	2C110 GOST 13941-86	1	1	Ring
	3	211 AYШ1 GOST8338-75	1	1	Bearing
	4	74-1721023	1..4	1..4	Gasket 0,5 mm
		74-1721023-01	1..4	1..4	Gasket 0,5 mm
	5	70-1721022	1	1	Thrust cover
	6	10 OT OST 37.001.115-75	4	4	Washer
	7	M10-6gx25.88.35.019 GOST 7796-70	4	4	Bolt
	8	74-1721090	1	-	Gear
	8a	74-1721090-01	-	1	Gear
	9	74-1721113	1	1	Shaft
	10	74-1701060-A	1	1	Synchro unit
	11	C40 GOST 13940-86	1	1	Ring
	12	74-1721028	1	1	Bushing
	13	74-1721080	1	-	Gear
	13a	74-1721080-01	-	1	Gear
	14	3KK 50x57x36E TU RB 00234873.003-99	1	1	Bearing
	15	74-1701026	1	1	Ring
	16	212 AYШ1 GOST 8338-75	2	2	Bearing
	17	70-1721318	2	2	Washer
	18	2C110 GOST 13941-86	2	2	Ring
	19	70-1721041	1	-	Gear
	19a	50-1721041	-	1	Gear

* see table for figure 16.2

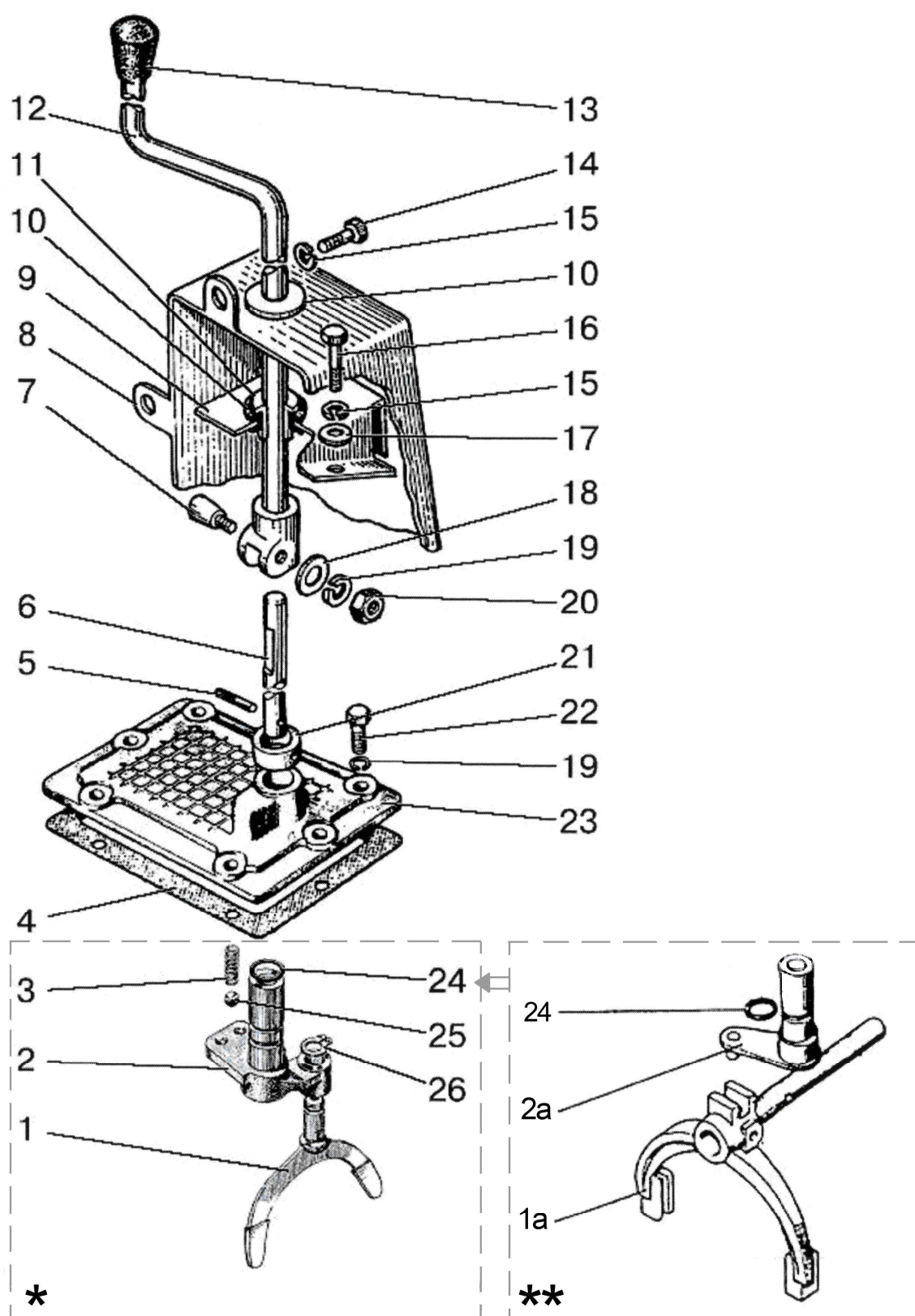


Fig.17.3. Control of mechanical* (synchronized**) reduction gear unit/accelerator

Group 17. Clutch
Subgroup 1723. Control of reduction gear unit/accelerator

Fig.No	Pos.No	Designation	Q-ty	Name
17.3		80-1723010-B	1*	Control of reduction gear unit (1, 2, 3, 5, 6, 21, 23-26)
		74-1723030	1**	Reduction gear unit cover (2a,5, 6, 23-24)
		80-1723065	1	Lever (7, 12, 13, 18-20)
	1	80-1723021	1	Fork
	1a	74-1723020-B	1	Fork
	2	70-1723020	1	Axis with lever
	2a	74-1723140	1	Lever
	3	50-1702148-A	1	Spring
	4	50-1601347	1	Gasket
	5	70-1723012	1	Pin
	6	70-1723024	1	Stem
	7	70-1723063	1	Wedge
	8	80-6700370	1	Casing
	9	80-6702291	1	Lining
	10	70-3723024	2	Bushing
	11	70-4605308-B	1	Bushing
	12	80-1723060	1	Lever
	13	A61-01-014	1	Handle
	14	M6-6gx20.88.35.019 GOST 7798-70	3	Bolt
	15	6T OST 37.001.115-75	5	Washer
	16	M6-6gx14.88.35.019 GOST 7798-70	2	Bolt
	17	C 6.01.019 GOST 11371-78	2	Washer
	18	C 10.01.019 GOST 11371-78	1	Washer
	19	10 OT OST 37.001.115-75	7	Washer
	20	M10-6H.6.019 GOST 5915-70	1	Nut
	21	70-1723032	1	Bushing
	22	M10-6gx30.88.35.019 GOST 7796-70	6	Bolt
	23	70-1723015	1	Cover
	24	025-030-30-2-2 GOST 18829-73/9833-73	1	Ring
	25	10,0-60 GOST 3722-81	1	Ball
	26	C16 GOST 13940-86	1	Ring

* Control of mechanical reduction gear unit/accelerator

** Control of synchronized reduction gear unit/accelerator

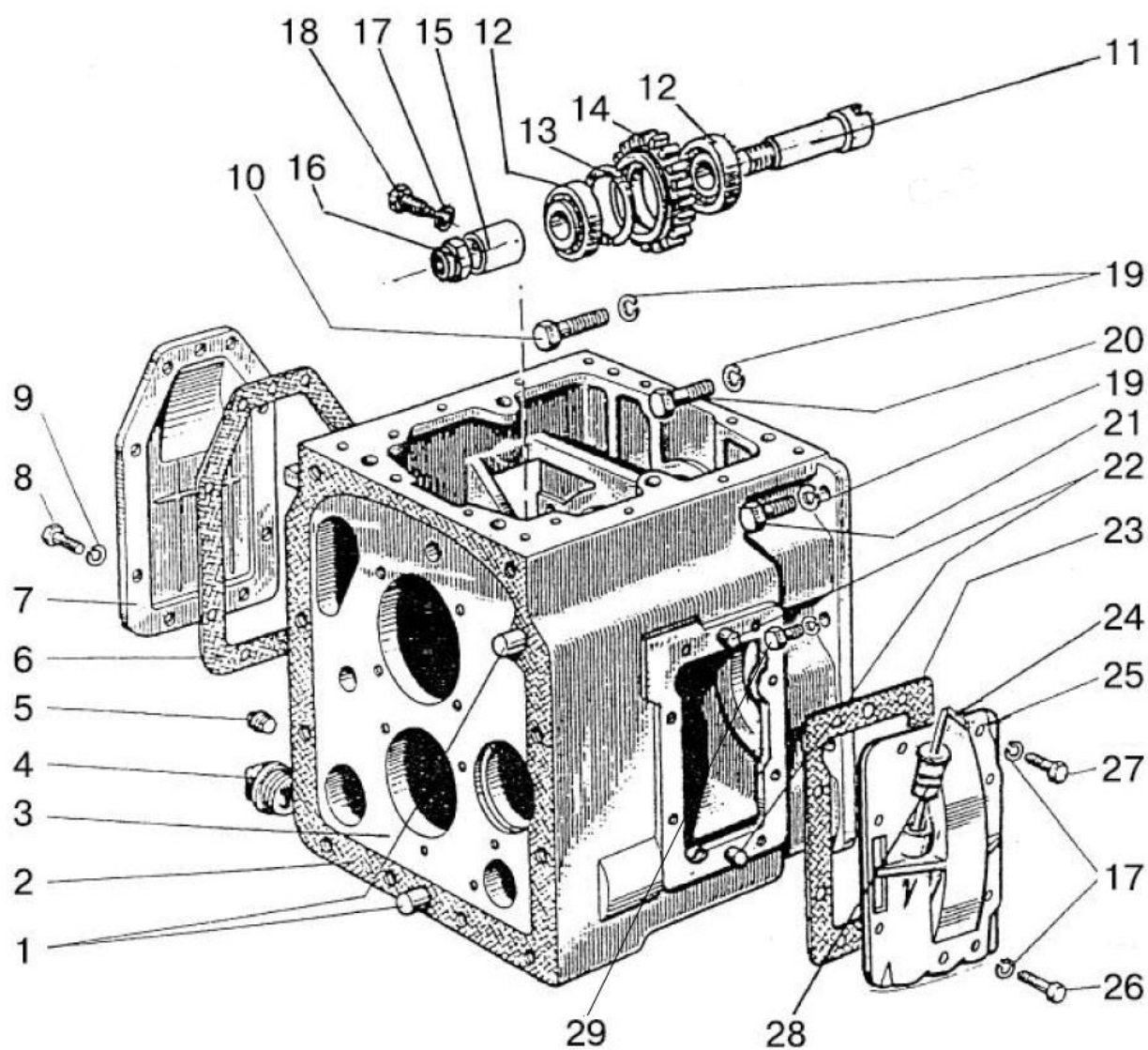


Fig.17.4. Gear box. Versions

Group 17. Gearbox
Table – Versions of GB for tractors “BELARUS - 920.4/952.4”

GB Designation	GB code	Figure number	Description of GB version
1021-1700010-01	1001	17.5, 17.7, 17.8, 17.9, 17.10, 17.12, 17.14	- synchronized GB; - synchronized reduction gear unit; - with FDA drive; - with hydraulic creeper drive; - right double-lever control
1021-1700010-05	1005	17.5, 17.7, 17.8, 17.9, 17.10, 17.12, 17.14	- synchronized GB; - synchronized speed-increaser; - with FDA drive; - with hydraulic creeper drive; - right double-lever control
72-1700010-Б1*	72600	17.5, 17.6, 17.9, 17.10, 17.11, 17.13	- mechanical GB; - mechanical reduction gear unit; - with FDA drive; - with hydraulic creeper drive; - right single-lever control
72-1700010-Б1-01	72601	17.5, 17.6, 17.9, 17.10, 17.11, 17.13	- mechanical GB; - mechanical speed-increaser; - with FDA drive; - with hydraulic creeper drive; - right single-lever control
74-1700010-01	7401	17.5, 17.7, 17.8, 17.9, 17.10, 17.12, 17.13	- synchronized GB; - synchronized reduction gear unit; - with FDA drive; - with hydraulic creeper drive; - right single-lever control
74-1700010-05	7405	17.5, 17.7, 17.8, 17.9, 17.10, 17.12, 17.13	- synchronized GB; - synchronized speed-increaser; - with FDA drive; - with hydraulic creeper drive; - right single-lever control

* except 952.4

Note:

Tractor design type according to GB is determined by GB type marking, which is made by percussion on the left side in the direction of tractor forward travel on the pad in the left upper angle of GB housing window (see Figure)

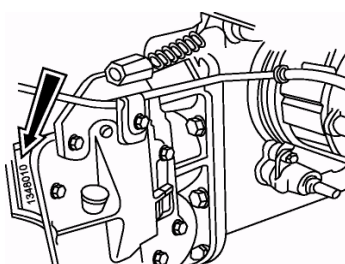


Figure – GB type marking

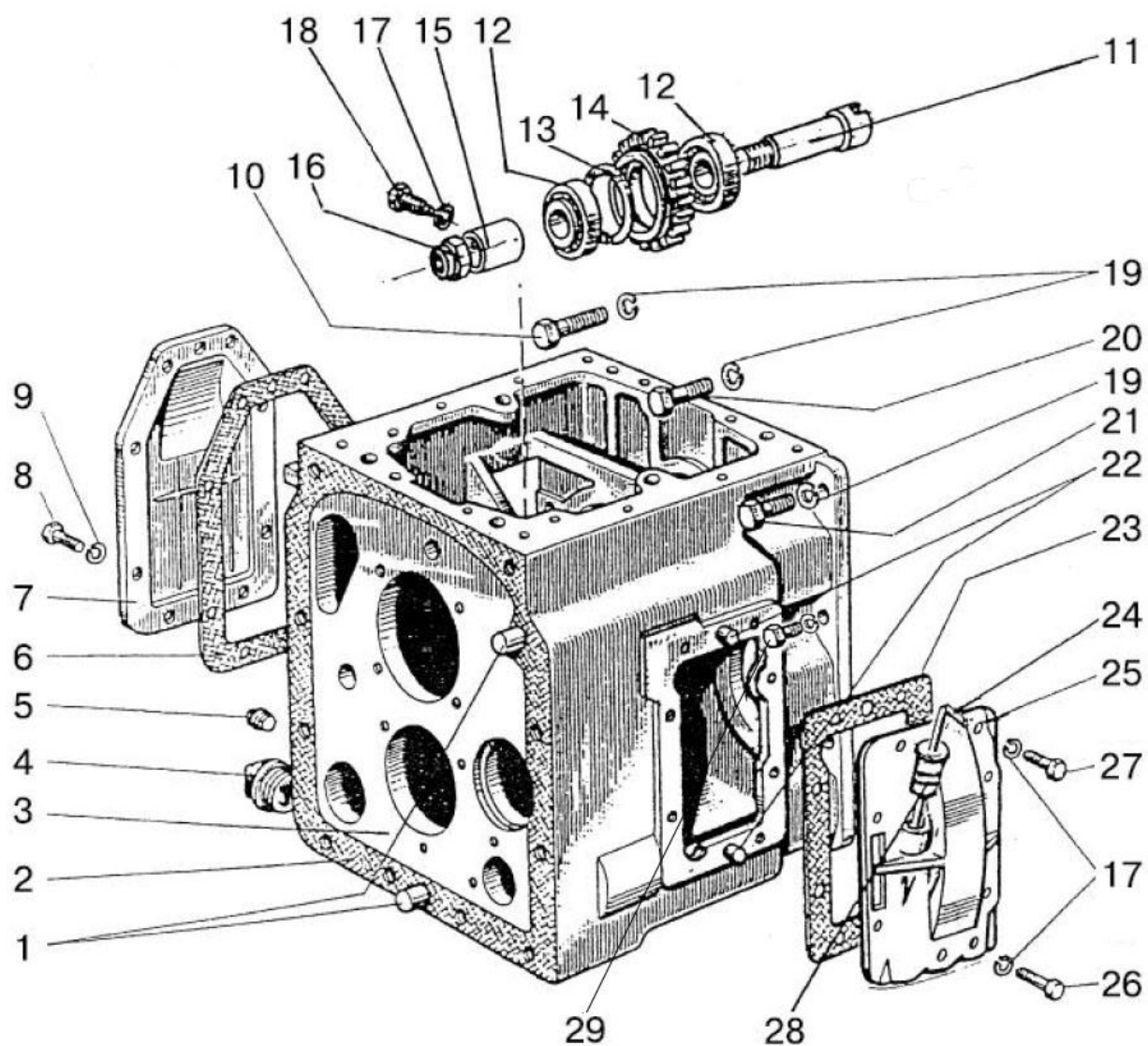


Fig.17.5. Gear box housing. Front driving axle drive.

Group 17. Gear box
Subgroup 1701. Gear box housing. Front driving axle drive.

Fig. No	Pos. No	Designation	72-1700010-Б1/-01	74-1700010-01/-05 1021-1700010-01/-05	Name
17.5		52-1802095-Б	1	1	Gear (11-16)
	1	50-4605027	2	2	Pin
	2	50-1701026	1	1	Gasket
	3	50-1701025-A	1	-	Gear box housing
		50-1701025-A-01	-	1	Gear box housing
	4	70-1701300	1	1	Plug
	5	ПК КГ 3/8"	1	1	Plug
	6	50-1701459	1	1	Gasket
	7	50-1701458	-	-	Cover
	8	M10-6gx35.88.35.019 GOST 7796-70	8	8	Bolt
	9	10 ОТ OST 37.001.115-75	8	8	Washer
	10	M16-6gx100.88.35.019 GOST 7795-70	2	2	Bolt
	11	52-1802094	1	1	Axis
	12	7306A GOST 27365-87	2	2	Bearing
	13	52-1802097-A	1	1	Ring
	14	52-1802091	1	1	Gear
	15	52-1802092-Б	1	1	Bushing
	16	52-1802128	1	1	Nut
	17	12 ОТ OST 37.001.115-75	8	8	Washer
	18	52-1802093	1	1	Screw
	19	16 ОТ OST 37.001.115-75	11	11	Washer
	20	M16-6gx60.88.35.019 GOST 7795-70	2	2	Bolt
	21	M16-6gx50.88.35.019 GOST 7796-70	2	2	Bolt
	22	Д01-015	4	4	Adjusting pin
	23	50-1701456-A	1	1	Gasket
	24*	70-1701415-A	1	1	Oil meter
	25*	70-1701454-A2	1	1	Cover
	26	M12-6gx35.88.35.019 GOST 7796-70	5	5	Bolt
	27	M12-6gx45.88.35.019 GOST 7796-70	2	2	Bolt
	28	011-015-25-2-4 GOST 18829-73/ GOST 9833-73	2	2	Rings
	29	M16-6gx55.88.35.019 GOST 7796-70	5	5	Bolt

* Not mounted if the tractor is equipped with the creeper or hydraulic creeper

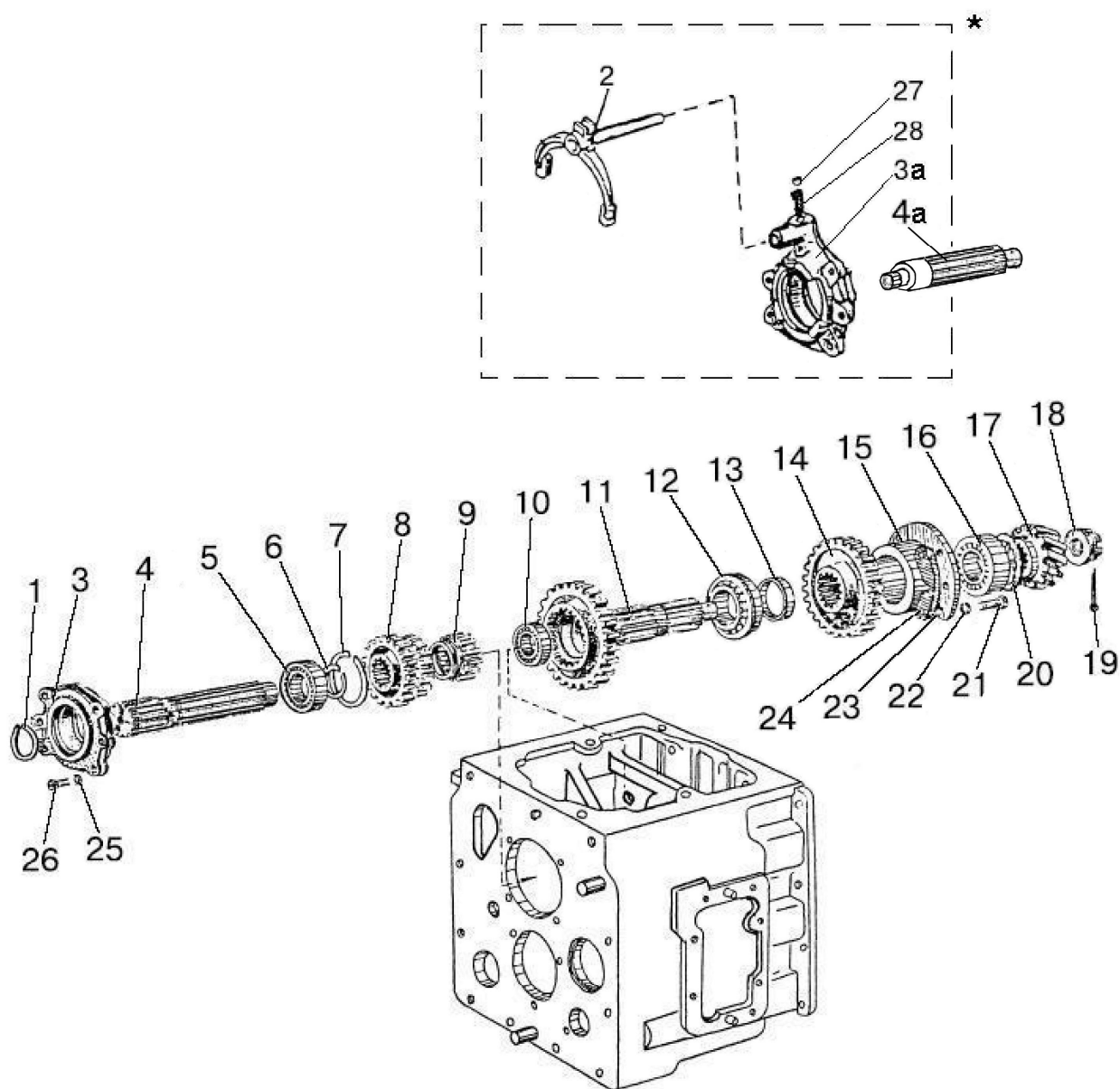


Fig.17.6. Primary shaft and secondary shaft of mechanical gear-box

Group 17. Gear box
Subgroup 1701. Primary shaft and secondary shaft of mechanical gear-box

Fig. No	Pos. No	Designation	72-1700010-B1/-01	Name
17.6		48-1701030-A	1	Primary shaft (1, 3, 4, 5-9)
		822-1701030	-	Primary shaft (3a, 4a, 5-9)
		50-1701040	1	Secondary shaft (10-13)
	1	2C60 GOST 13940-86	1	Ring
	2	74-1723020-B	-	Fork
	3	50-1701034	1	Cage
	3a	74-1701034-B	-	Cage
	4	48-1701032-A	1	Primary shaft
	4a	P70-1701032	-	Primary shaft
	5	210AYW1 GOST 8338-75	1	Bearing
	6	2C50 GOST 13940-86	1	Ring
	7	2C90 GOST 13941-86	1	Ring
	8	50-1701048-A	1	Gear
	9	50-1701045	1	Gear
	10	208A GOST 8338-75	1	Bearing
	11	50-1701252	1	Secondary shaft
	12	6-67512 AW2 GOST 27365-87	1	Bearing
	13	50-1701312	1	Bushing
	14	50-1701314	1	Gear
	15	50-1701255	1	Cage
	16	6-7610 AW2 GOST 27365-87	1	Bearing
	17	50-1701105-B	1	Gear
	18	50-1701253	1	Nut
	19	5x45.019 GOST 397-79	1	Forelock
	20	50-1701254-A	1	Washer
	21	M12-6g x35.88.35.019 GOST 7796-70	4	Bolt
	22	12 OT OST 37.001.115-75	4	Washer
	23	50-1701258	8*	Gasket 0,2 mm
	24	50-1701259	2*	Gasket 0,5 mm
	25	10 OT OST 37.001.115-75	4	Washer
	26	M10-6g x25.88.35.019 GOST 7796-70	4	Bolt
	27	10,0-60 GOST 3722-81	-	Ball
	28	50-1701184-A	-	Spring

* Maximum. Selection

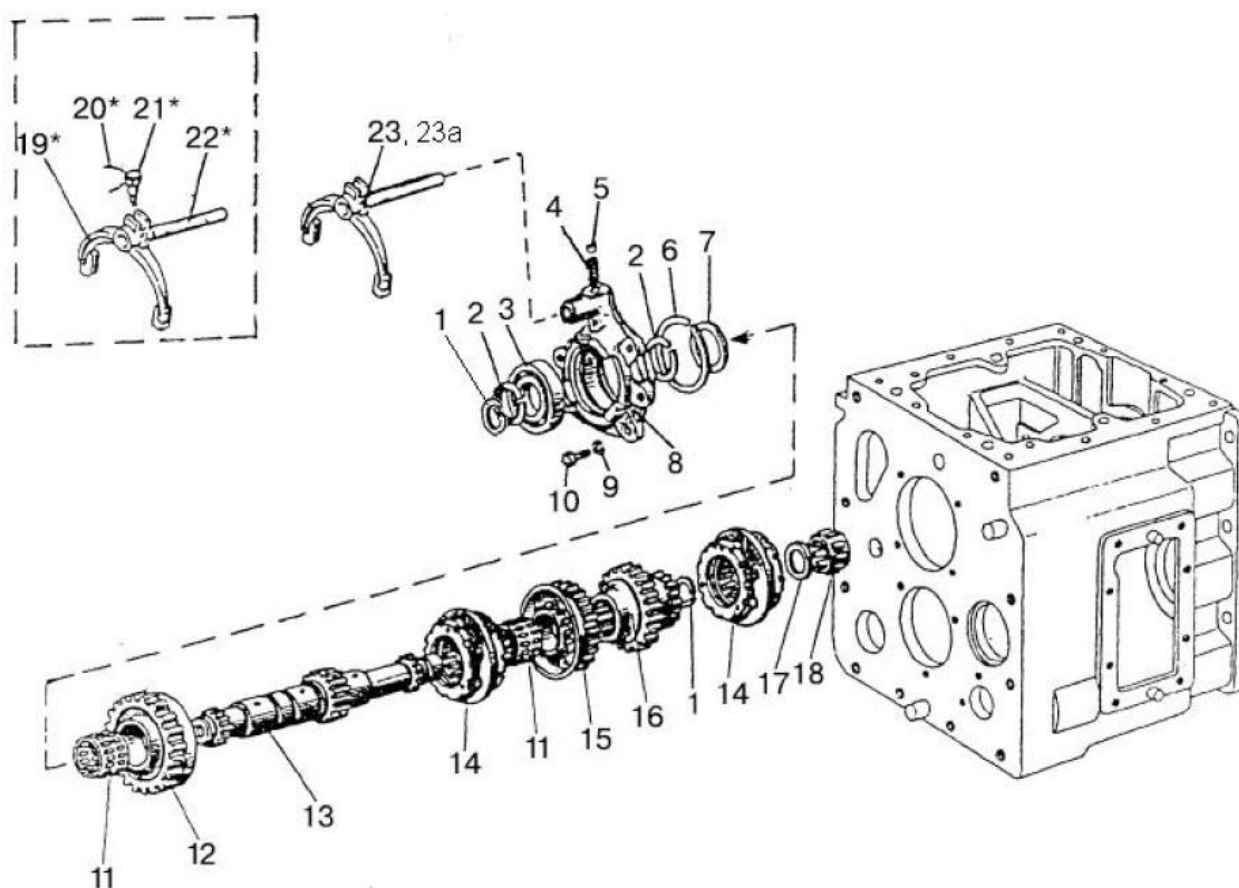


Fig.17.7. Primary shaft of synchronized gear-box

Group 17. Gear box
Subgroup 1701. Primary shaft of synchronized gearbox

Fig. No	Pos. No	Designation	74-1700010-01 1021-1700010-01	74-1700010-05 1021-1700010-05	Name
17.7		74-1701030	1	1	Primary shaft (1-3, 6-8, 11-18)
		74-1723020-B1	-	1	Fork (19-22)
	1	C40 GOST 13940-86	2	2	Ring
	2	2C50 GOST 13940-	2	2	Ring
	3	210 AYШ1 GOST 8338-75	1	1	Bearing
	4	50-1702148-A	1	1	Spring
	5	10,0-60 GOST 3722-81	1	1	Ball
	6	2C90 GOST 13941-86	1	1	Ring
	7	74-1701026	1	1	Washer
	8	74-1701034-B	1	1	Cage
	9	10 OT OST 37.001.115-75	4	4	Washer
	10	M10-6gx25.88.35.019 GOST 7796-70	4	4	Bolt
	11	3KK50x57x36 TU RB 00234873.003-99	2	2	Bearing
	12	74-1701110	1	1	Gear
	13	74-1701032	1	1	Shaft
	14	74-1701060-A	2	2	Synchro unit
	15	74-1701100	1	1	Gear
	16	74-1701045	1	1	Gear
	17	74-1701029	1	1	Ring
	18	822707Д	1	1	Bearing
	19	74-1723043-B	-	1	Fork
	20	1,6-O-C GOST 3282-74	-	1	Wire (L=200 mm)
	21	220-1702061	-	1	Bolt
	22	74-1723044-B1	-	1	Shaft
	23	74-1723020-B	1	-	Fork
	23a	74-1723020-B-01	-	-	Fork

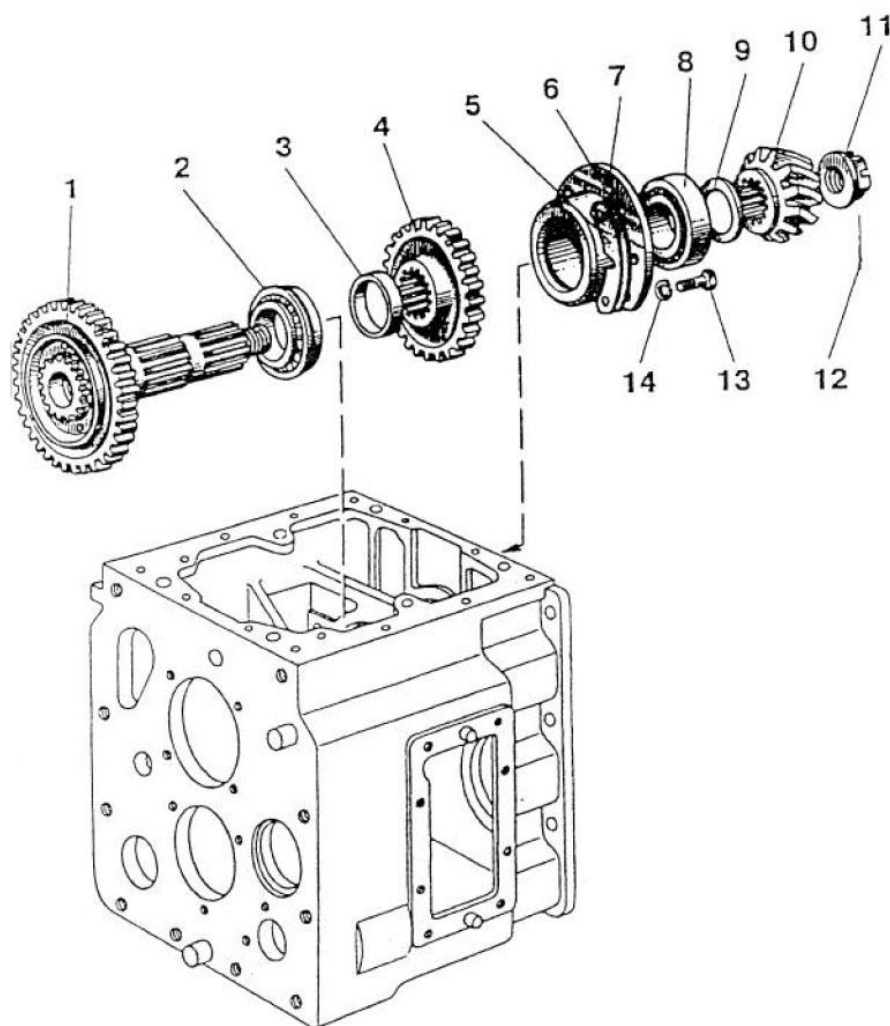


Fig.17.8. Secondary shaft of synchronized gear-box

Group 17. Gear-box
Subgroup 1701. Secondary shaft of synchronized gear-box

Fig. No	Pos. No	Designation	74-1700010-01/-05 1021-1700010-01/-05	Name
17.8	1	74-1701260	1	Secondary shaft
	2	6-67512 AШ2 GOST 27365-87	1	Bearing
	3	50-1701312	1	Bushing
	4	50-1701314	1	Gear
	5	50-1701258	10*	Gasket 0,2 mm
	6	50-1701259	6*	Gasket 0,5 mm
	7	50-1701255	1	Cage
	8	6-7610 AШ2 GOST 27365-87	1	Bearing
	9	50-1701254-A	1	Washer
	10	50-1701105-Б**	1	Gear
	11	50-1701253	1	Nut
	12	5x45.019 GOST 397-79	1	Forelock
	13	M12-6g x35.88.35.019 GOST 7796-70	4	Bolt
	14	12OT OST 37.001.115-75	4	Washer

* Maximum. Selection

** As spare part gear 50-1701105-Б is delivered only assembled with gear 50-2403021-Б

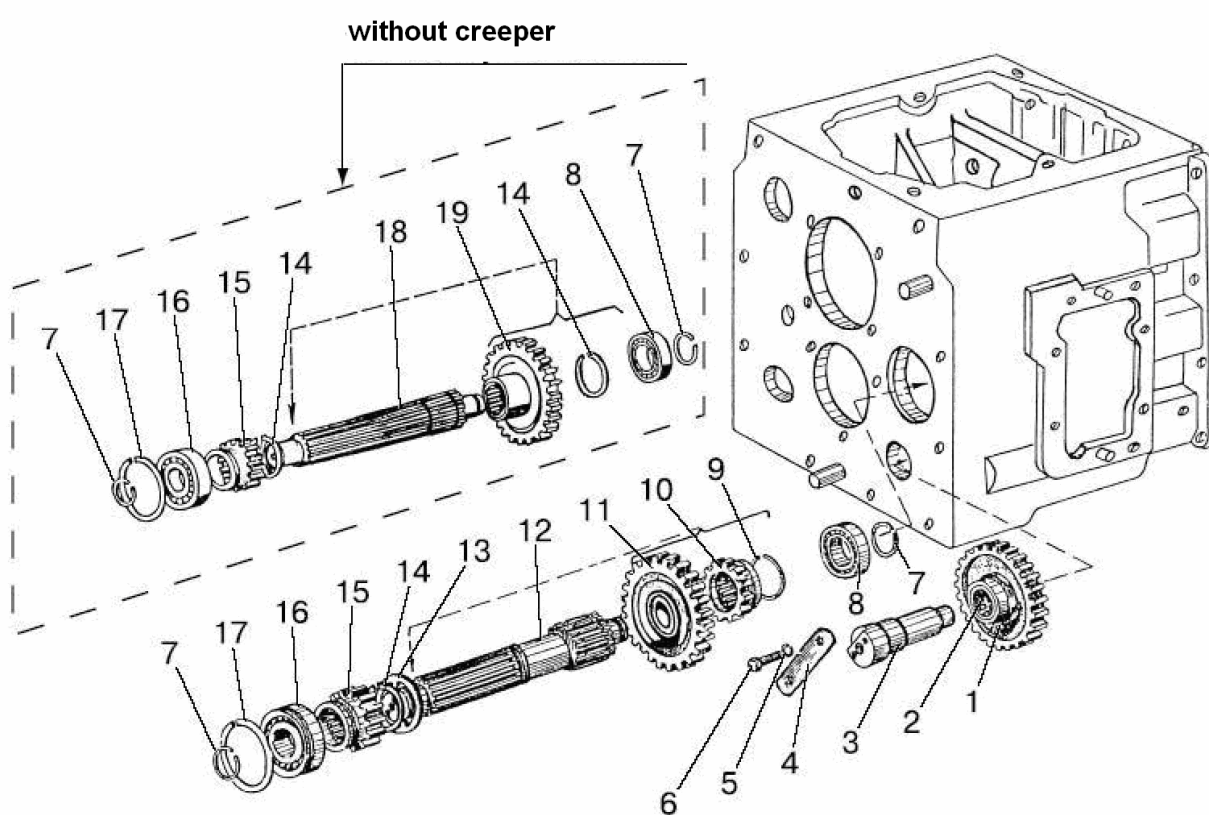


Fig.17.9. 1st gear and reverse gear shaft

Group 17. Gear box
Subgroup 1701. 1st gear and reverse gear shaft

Fig. No	Pos. No	Designation	72-1700010-B1/-01 74-1700010-01/-05 1021-1700010-01/-05	Name
17.9		70-1701080	1	Gear (1, 2)
		50-1701380-A	-	1 st gear and reverse gear shaft (7-9, 14-19)
		70-1701380	1	1 st gear and reverse gear shaft (7-17)
	1	70-1701082	1	Gear
	2	3KK30x35x46E TU RB 00234873.003-99	1	Bearing
	3	50-1701434-A	1	Axis
	4	50-1702082-A	1	Plate
	5	10 OT OST 37.001.115-75	2	Washer
	6	M10-6g x25.88.35.019 GOST 7796-70	2	Plate
	7	X4M-1701163	2	Ring
	8	208A GOST 8338-75	1	Bearing
	9	2C65 GOST 13940-86	1	Ring
	10	70-1701072	1	Gear
	11	70-1701224	1	Gear
	12	70-1701382	1	1 st gear and reverse gear shaft
	13	70-1701226	1	Washer
	14	2C50 GOST 13940-86	1	Ring
	15	50-1701212-A	1	Gear
	16	50308A GOST 8338-75/GOST 2893-82	1	Bearing
	17	90 GOST 2893-82	1	Ring
	18	50-1701382-A	-	1 st gear and reverse gear shaft
	19	Φ50-1701224	-	Gear

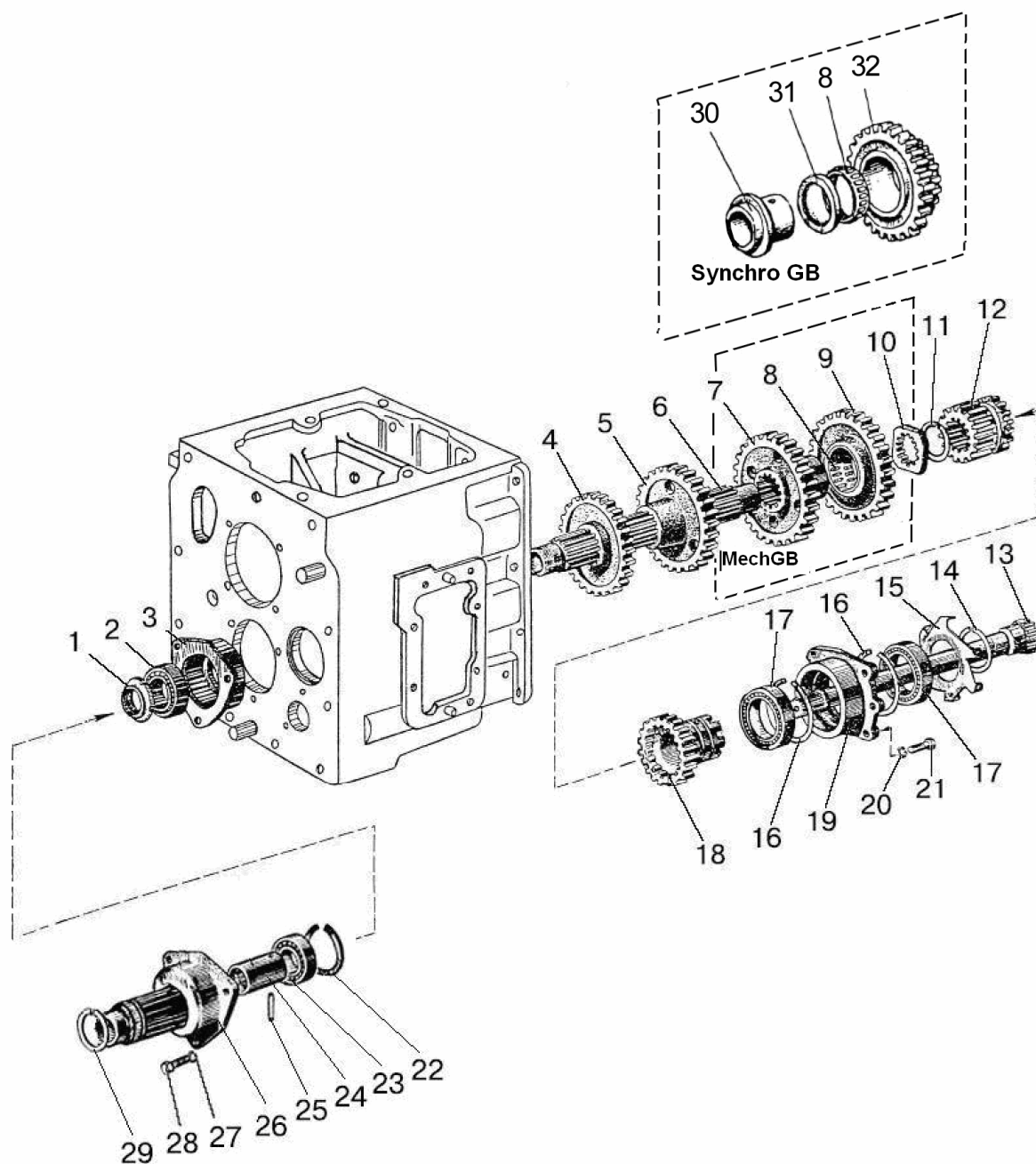


Fig.17.10. Intermediate shaft. Inner shaft.

Group 17. Gear box
Subgroup 1701. Intermediate shaft. Inner shaft

Fig. No	Pos. No	Designation	72-1700010-B1/-01	74-1700010-01/-05 1021-1700010-01/-05	Name
17.10		Φ50-1701065*	1	-	Gear (7-10)
		74-1701070*	-	1	Gear (8, 30-32)
		50-1701190-A	1	1	Gear (14-19)
	1	50-1701181	1	1	Nut
	2	60210AYШ1 GOST 7242-81	1	1	Bearing
	3	50-1701184	1	1	Bearing housing
	4	50-1701218	1	1	Gear
	5	50-1701216	1	1	Gear
	6	70-1701182-B	1	-	Intermediate shaft
		70-1701182-B-01	-	1	Intermediate shaft
	7	50-1701214	1	-	Gear
	8	3KK72x82x45E TU RB 00234873.003-99	1	1	Bearing
	9	Φ50-1701056-B	1	-	Gear
	10	50-1701183	1	1	Washer
	11	50-1701187	1	1	Thrust
	12	70-1701196	1	1	Gear
	13	50-1701185	1	1	Inner shaft
	14	2C75 GOST 13940-86	1	1	Ring
	15	50-1701401	1	1	Impeller
	16	2C115 GOST 13941-86	1	2	Ring
	17	6-12115EMYШ1 GOST 8328-75	1	2	Bearing
	18	50-1701198-A	1	1	Gear
	19	50-1701195	1	1	Cage
	20	12 OT OST 37.001.115-75	1	4	Washer
	21	M12-6g x35.88.35.019 GOST 7796-70	4	4	Bolt
	22	2C80 GOST 13941-86	1	1	Ring
	23	307A GOST 8338-75	1	1	Bearing
	24	50-1701188	1	1	Bushing
	25	A.8x45.65Г GOST 14229-93	1	1	Spring pin
	26	70-1701186	1	1	Front housing
	27	10 OT OST 37.001.115-75	1	3	Washer
	28	M10-6g x35.88.35.019 GOST 7796-70	3	3	Bolt
	29	2C60 GOST 13940-86	1	1	Ring
	30	74-1701055-B	-	1	Bushing
	31	74-1701057-B	-	1	Bushing
	32	74-1701056-B	-	1	Gear

* For request as spare parts

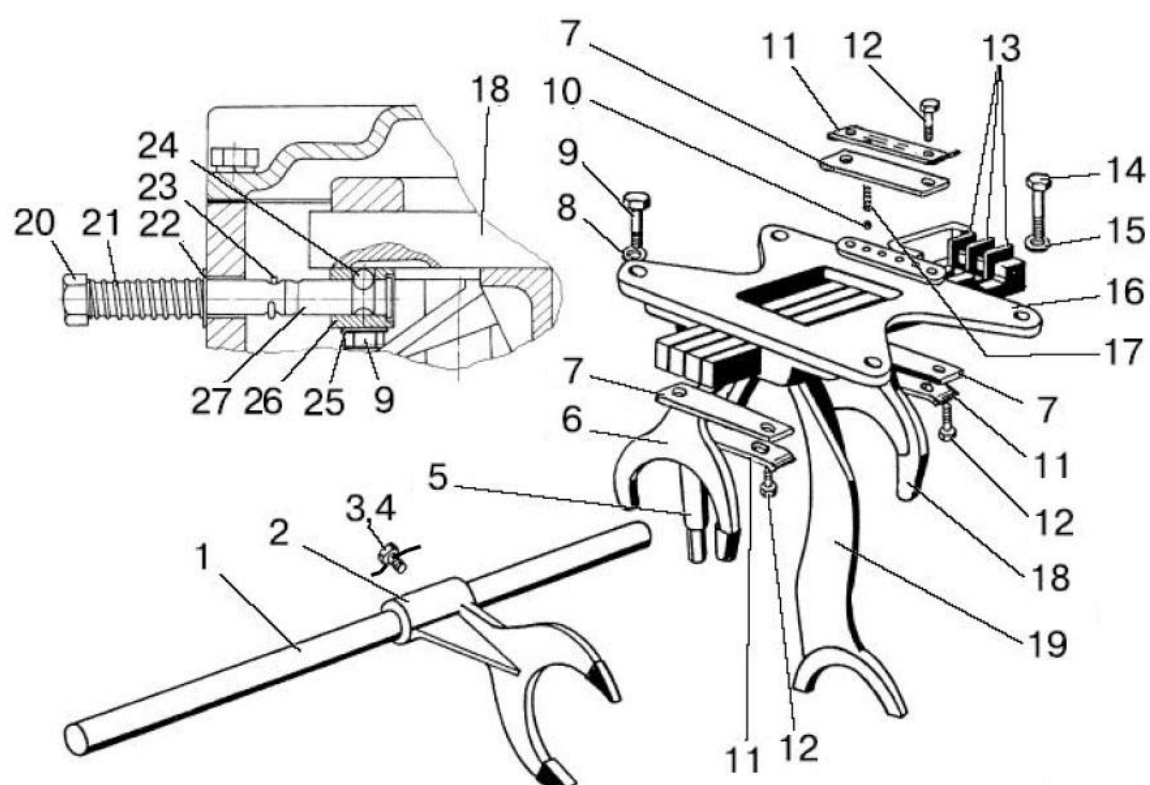


Fig.17.11. Mechanical GB control mechanism. Fork housing.

Group 17. Gear box
Subgroup 1702. Mechanical GB control mechanism. Fork housing.

Fig. No	Pos. No	Designation	72-1700010-B1/-01	Name
17.11		50-1702080-A	1	Fork housing (5-13, 16-19)
		50-1702080-A-01	-	Fork housing (5-13, 16-27)
		822-1702080	-	Fork housing (5-13, 16-19)
	1	50-1702063	1	Shaft
	2	50-1702028	1	Fork
	3	36-1702110	1	Screw
	4	1,6-O-C GOST 3282-74	1	Wire (L=200 mm)
	5	50-1702095-A1	1	Shifter arm
		922-1702095	-	Shifter arm
	6	50-1702116	1	Fork of 4 th and 5 th gears
	7	50-1702081	3	Fork plate
	8	10OT OST 37.001.115-75	2	Washer
	9	M10-6g x35.88.35.019 GOST 7796-70	2	Bolt
	10	10,0-60 GOST 3722-81	4	Ball
	11	50-1702107-A	3	Locking plate
	12	M10-6g x25.88.35.019 GOST 7796-70	6	Bolt
	13	50-1702083	3	Locking plate
	14	50-1702092	2	Bolt
	15	12OT OST 37.001.115-75	2	Washer
	16	50-1702085	1	Fork housing
	17	50-1702148-A	4	Spring
	18	50-1702096	1	Fork of 3 rd and 6 th gears
	19	74-1702086	1	1 st gear and reverse gear shaft
	20	70-1702073	-	Push rod
	21	70-1702077	-	Spring
	22	70-4605163	-	Washer
	23	2x20 GOST 397-79	-	Forelock
	24	7,938-100 GOST 3722-81	-	Ball
	25	50-1702107	-	Lock washer
	26	70-1702072	-	Bracket
	27	70-1702071	-	Push rod

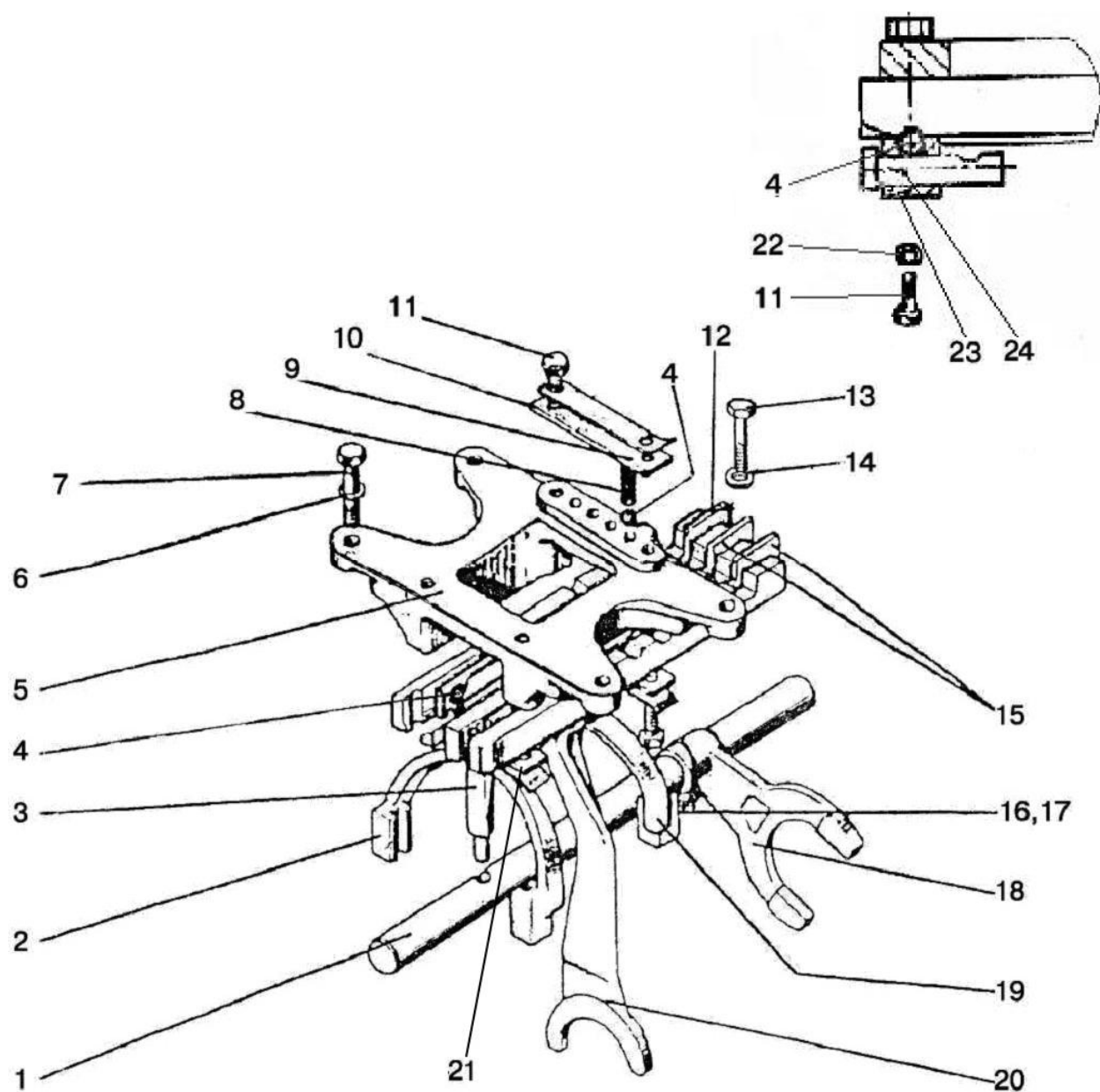


Fig.17.12. Synchronized GB control mechanism. Fork housing.

Group 17. Gear box
Subgroup 1702. Synchronized GB control mechanism. Fork housing.

Fig. No	Pos. No	Designation	1021-1700010-01/-05	74-1700010/-01/-05	Name
17.12		922-1702080	1	-	Fork housing (2-5, 8-13, 15, 19-21)
		922-1702080-02	-	-	Fork housing (2-5, 8-13, 15, 19-20,22-24)
		74-1702080	-	1	Fork housing (2-5, 8-12, 15, 19, 20)
		74-1702080-01	-	-	Fork housing (2-5, 8-12, 15, 19, 20, 22-24)
		74-1702080-02	-	-	Fork housing (2-5, 8-12, 15, 19, 20, 22-24)
	1	50-1702063	1	1	Shaft
	2	74-1702096	1	1	Fork of 4 th (direct) gear
	3	922-1702095	1	-	Shifter arm
		74-1702095	-	1	Shifter arm
	4	10,0-60 GOST 3722-81	5	5	Ball
	5	50-1702085	1	1	Fork housing
	6	10 OT OST 37.001.115-75	2	2	Washer
	7	M10-6g x30.88.35.019 GOST 7796-70	2	2	Bolt
	8	50-1702148-A	4	4	Spring
	9	50-1702081	2	3	Fork plate
	10	50-1702107-A	3	3	Locking plate
	11	M10-6g x25.88.35.019 GOST 7796-70	6	6	Bolt
	12	74-1702040	1	1	Plate
	13	50-1702092	2	2	Bolt
	14	12OT OST 37.001.115-75	2	2	Washer
	15	50-1702083	2	2	Locking plate
	16	36-1702110	1	1	Screw
	17	1,6-O-C GOST 3282-74	1	1	Wire (L=200 mm)
	18	50-1702028	1	1	Fork
	19	74-1702116	1	1	Fork of 2 nd and 3 rd gears
	20	74-1702086	1	1	1 st gear and reverse gear shaft
	21	74-1702081	1	-	Plate
	22	50-1702107	-	-	Locking washer
	23	74-1702201	-	-	Housing
	24	74-1702202	-	-	Shifter arm
		74-1702202-01	-	-	Shifter arm

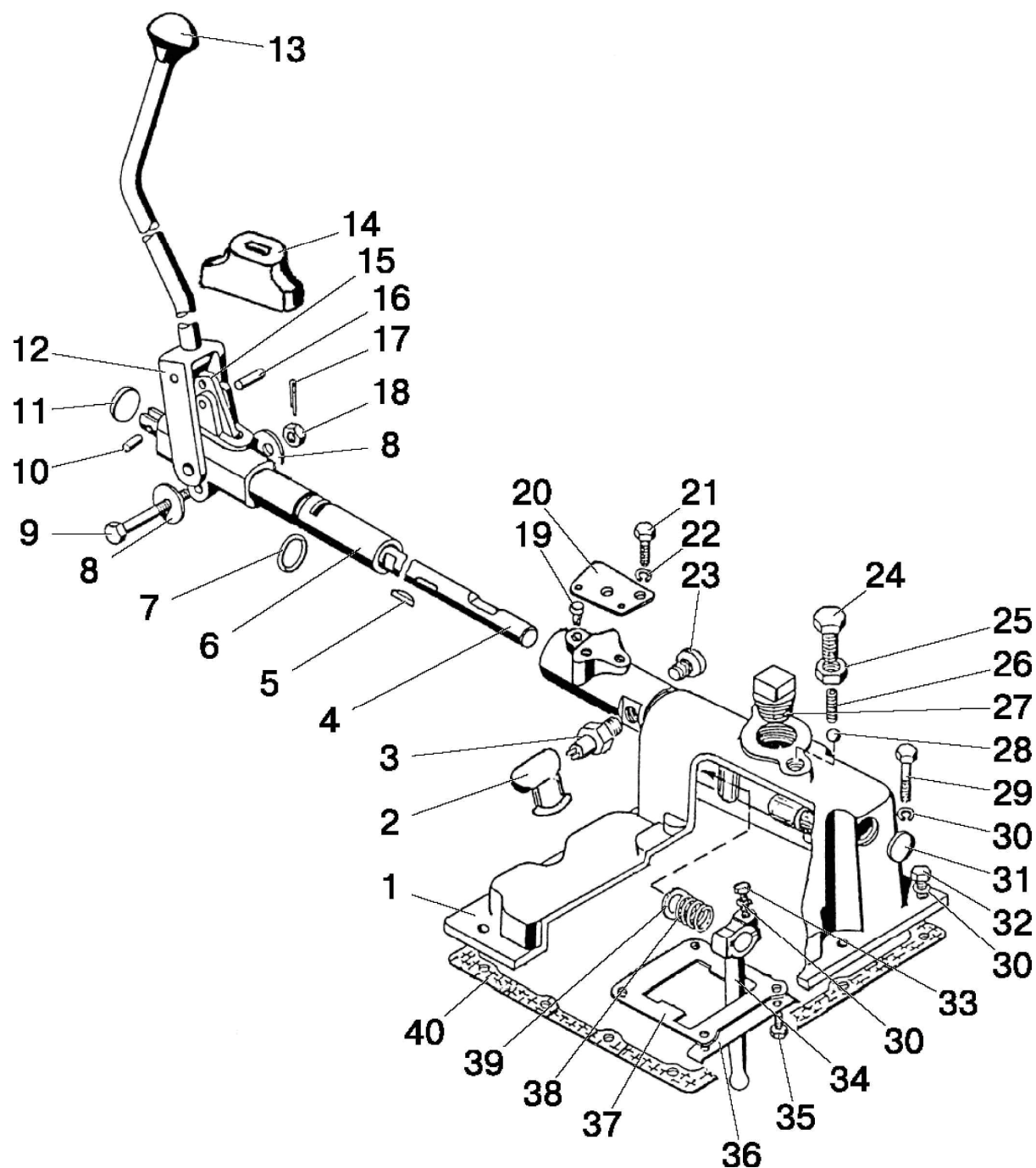


Fig.17.13. Mechanism of right single-lever gearbox control

Group 17. Gear box
Subgroup 1703. Mechanism of right single-lever gearbox control

Fig. No	Pos. No	Designation	72-1700010-Б1	72-1700010-Б1-01	74-1700010-01/-05	Name
17.13		70-1703010-A1	1	-	-	GB cover (1-39)
		70-1703010-A1-01	-	1	-	GB cover (1-39)
		70-1703010-A1-02	-	-	-	GB cover (1-39)
		70-1703010-A1-03	-	-	1	GB cover (1-39)
	1	70-1703025-Б	1	1	1	Cover
	2	50Л-3724050	1	1	1	Casing
	3	БК 12-51 ТУ РБ 37334210.015-97	1	1	1	Switch
	4	70-1703201-Б-01	1	1	1	Shaft
	5	СШ-611	1	1	1	Key
	6	70-1703210-Б	1	1	1	Support
	7	030-034-25-1-4 GOST 18829-73/9833-73	1	1	1	Ring
	8	C12.01.019 GOST 6958-78	2	2	2	Washer
	9	50-2403034-01	1	1	1	Bolt
	10	ШЦК 8x20	1	1	1	Pin
	11	35-10кп.Ц9.Xp GOST 3111-81	1	1	1	Blind plug
	12	70-1703220-A	1	1	1	Lever
	13	70-1702125	1	1	1	Handle
	14	70-1703203-A	1	1	1	Casing
	15	70-1703202-A	1	1	1	Shifter arm
	16	ШЦК 8x25	1	1	1	Pin
	17	3,2x25.019 GOST 397-79	1	1	1	Forelock
	18	M12-6H.04.019 GOST 5919-73	1	1	1	Nut
	19	70-1703205	1	1	1	Lock
	20	80-3503048	1	-	-	Bracket
		952-1802030	-	1	1	Bracket
	21	M12-6g x20.88.35.019 GOST 7796-70	2	2	2	Bolt
	22	12 ОТ OST 37.001.115-75	2	2	2	Washer
	23	70-1702053	1	1	1	Plug
	24	70-1703204	1	1	1	Bolt
	25	M16-6H.04.019 GOST 5916-70	1	1	1	Nut
	26	50-1702148-A	1	1	1	Spring
	27	ПК КГ 11/4"	1	1	1	Plug
	28	13,8-60	1	1	1	Ball
	29	M10-6g x60.88.35.019 GOST 7795-70	2	2	2	Bolt
	30	10 ОТ OST 37.001.115-75	13	13	13	Washer
	31	28-10кп.Ц9.xp GOST 3111-81	1	1	1	Blind plug
	32	M10-6g x35.88.35.019 GOST 7796-70	10	10	10	Bolt
	33	M10-6g x30.88.35.019 GOST 7796-70	1	1	1	Bolt
	34	70-1703011	1	1	1	Lever
	35	M10-6g x18.88.35.019 GOST 7796-70	4	4	4	Bolt
	36	50-1702107-A	2	2	2	Locking plate
	37	70-1703084	1	1	-	Plate
		74-1702084	-	-	1	Plate
	38	70-1703057	1	1	1	Spring
	39	70-1703058	1	1	1	Washer
	40	50-1702026	1	1	1	Gasket

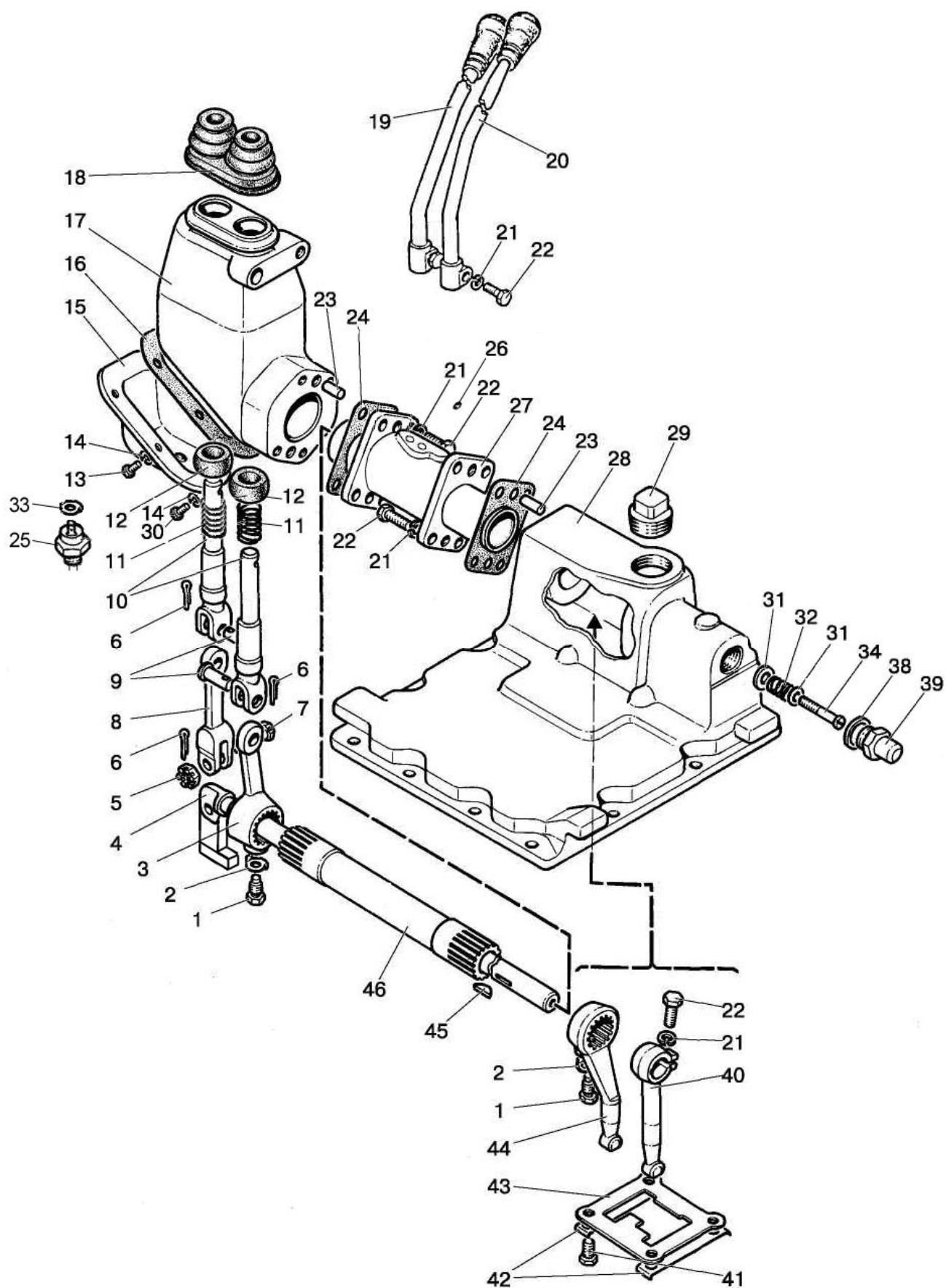


Fig.17.14. Mechanism of double-lever gearbox-control

Group 17. Gear box
Subgroup 1703. Mechanism of double-lever gearbox control

Fig. No	Pos. No	Designation	1021-1700010-01/- 05	Name
17.14		920-1702010	1	GB control (1-18, 21-34, 38-46)
		920-1702010-03	-	GB control (1-18, 21-34, 38-46)
		920-1702090	1	Housing (1-18, 21-24, 27, 30, 45, 46)
	1	922-1702021	2	Bolt
	2	50-1702107	2	Plate
	3	922-1702017	1	Lever
	4	920-1702020	1	Shaft
	5	M12-6H.04.019 GOST 5919-73	1	Nut
	6	3,2x18.019 GOST 397-79	3	Forelock
	7	80-1702108	1	Bolt
	8	922-1702018	1	Fork
	9	12x32 OST 37.001.163-75	2	Pin
	10	80C-1702074	2	Fork
	11	77.37.117	2	Spring
	12	142-1702032	2	Ball
	13	B.M6-6g x20.58.019 GOST 17473-80	4	Screw
	14	6T OST 37.001.115-75	5	Washer
	15	920-1702023	1	Cover
	16	922-1702024	1	Gasket
	17	922-1702011-01	1	Housing
	18	922-1702019	1	Casing
	19	920-1702060/-01	1	Lever
	20	920-1702050	1	Lever
	21	10 OT OST 37.001.115-75	11	Washer
	22	M10-6g x30.88.35.019 GOST 7796-70	11	Bolt
	23	ШЛК 10x25	4	Pin
	24	922-1702026	2	Gasket
	25	BK 12-41 TU RB 37334210.015-97	1	Switch
	26	923-1702023	-	Blind plug
	27	920-1702012	1	Spacer
	28	922-1702025	1	Cover
	29	50-1701130	1	Breather
	30	B.M6-6g x50.58.019 GOST 17473-80	1	Screw
	31	C12.01.019 GOST 11371-78	2	Washer
	32	920-1702313	1	Spring
	33	50-1702048	3*	Shim
	34	920-1702314	1	Screw
	38	80-1702098	1	Washer
	39	80C-1702302	1	Housing
	40	70-1703011	1	Lever
	41	M10-6gx18.88.35.019 GOST 7796-70	4	Bolt
	42	50-1702107-A	2	Locking plate
	43	922-1702084	1	Plate
		822-1702084	-	Plate
	44	920-1702016	1	Lever
	45	СШ-611	1	Key
	46	920-1702015	1	Pipe

* Maximum. Selection

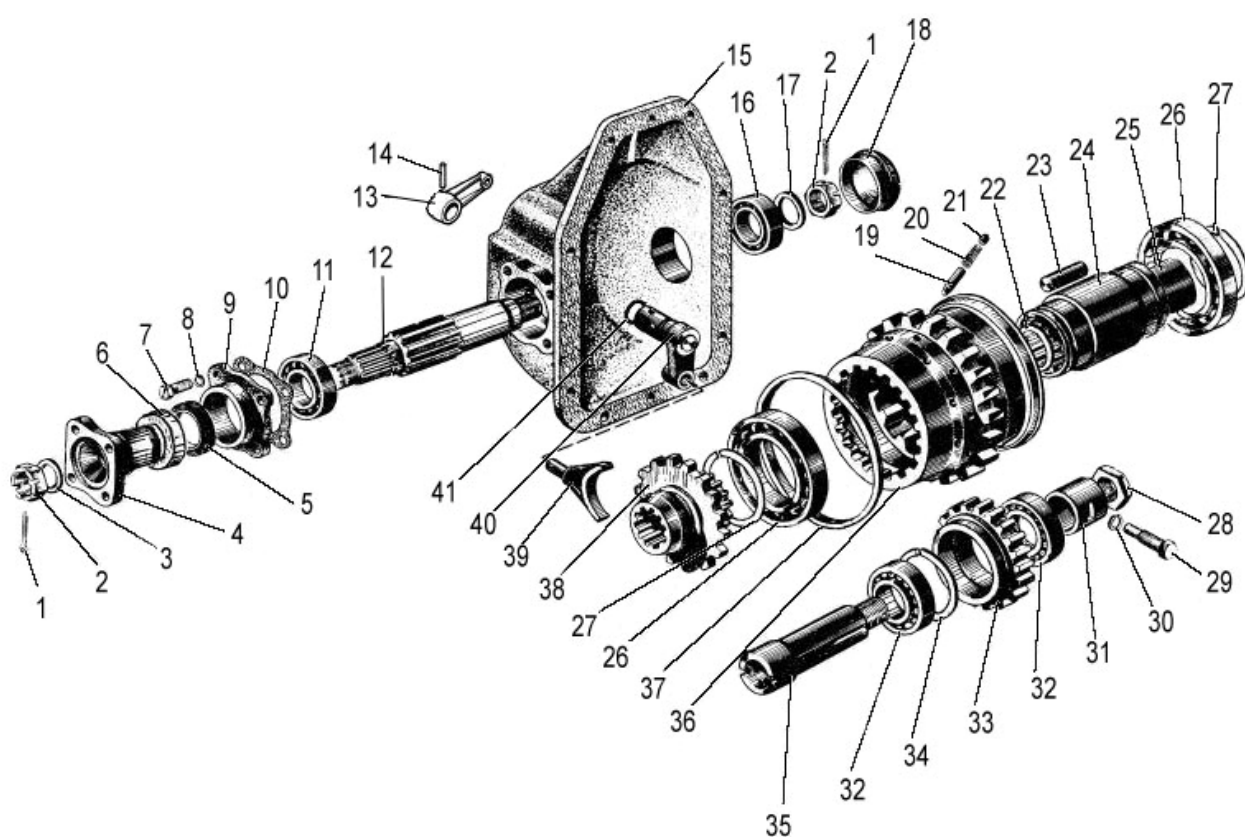


Fig.18.1. Transfer gearbox

**Group 18. Transfer gearbox
Subgroup 1802. Transfer gearbox**

Fig.No	Pos.No	Designation	Q-ty	Name
18.1		72-1802020	1	Transfer gearbox (1-27,36-41)
		72-1802060	1	Gear with freewheeling coupling (19-21, 23-27,36,37)
		72-1802062-A1	1	Bushing (24,25)
		52-1802094PH	1	Axis (28,35)
		52-1802095-B	1	Intermediate gear (32-34)
		52-1802100-A	1	Housing (5,6,9)
		52-1802110-A	1	Roller set (19-21,24)
		72-1802125P5	1	Gear (12,19-27,36-38)
	1	4x25.019 GOST 397-79	2	Forelock
	2	70-3003032	2	Nut
	3	52-1802079	1	Washer
	4	52-1802078-A	1	Flange
	5	2.2-38x58-1 GOST 8752-79/OST 3805146-78	1	Collar
	6	72-1802108	1	Yoke
	7	M8-6gx25.88.35.019 GOST 7796-70	4	Bolt
	8	8T OST 37.001.115-75	4	Washer
	9	52-1802073	1	Housing
	10	52-1802074	1	Gasket
	11	306A GOST 8338-75	1	Bearing
	12	72-1802063	1	Shaft
	13	72-1802082	1	Lever
	14	A.10x40.65Г Chemical.Phosphate.Oil impregnated GOST 14229-93	1	Pin
	15	52-1602065-A	1	Housing
	16	305A GOST 8338-75	1	Bearing
	17	72-1802064	1	Washer
	18	52-1802076	1	Cover
	19	52-1802069-B	16	Pin
	20	52-1802066-A	16	Spring
	21	52-1802111	16	Plug
	22	70-1601082	2	Washer
	23	52-1802077 or 52-1802077PH	8 8	Roller Roller
	24	72-1802131-B	1	Bushing
	25	943/30 GOST 4060-78	2	Bearing
	26	115K5 GOST 8338-75	2	Bearing
	27	52-1802102-A	2	Ring
	28	52-1802128	1	Nut
	29	52-1802093	1	Screw
	30	12 OT OST 37.001.115-75	1	Washer
	31	52-1802092-B	1	Bushing
	32	7306A GOST 27365-87	2	Bearing
	33	52-1802091	1	Gear
	34	52-1802097-A	1	Ring
	35	52-1802094	1	Axis
	36	52-1802061-A	1	Gear
	37	52-1802067	2	Yoke
	38	72-1802068	1	Coupling
	39	52-1802084	1	Fork
	40	52-1802080-B1	1	Shaft with lever
	41	020-025-30-1-4 GOST 18829-73/9833-73	1	Ring

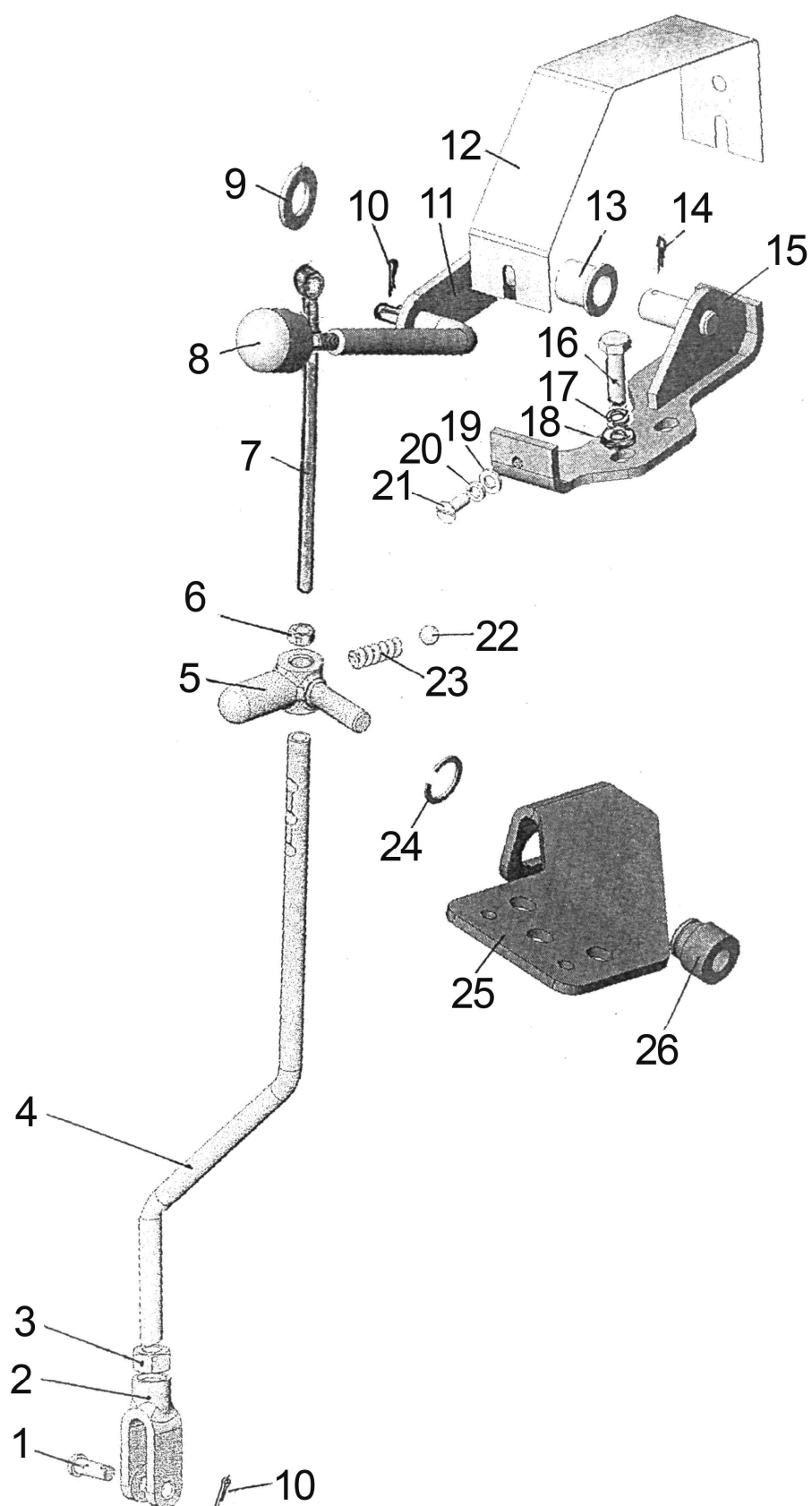


Fig.18.3. Transfer gearbox control

**Group 18. Transfer gearbox
Subgroup 1802. Transfer gearbox control**

Fig.No	Pos.No	Designation	Q-ty	Name
18.3	1	8x30 OST 37.001.163-75	1	Pin
	2	952-1802012	1	Fork
	3	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	4	920.4-1802026	1	Rod
	5	952-1802027	1	Guide
	6	M8-6H.6.019 GOST 5915-70	1	Nut
	7	952-1802011	1	Rod
	8	A13.11.000	1	Handle
	9	C 14.01.019 GOST 11371-78	1	Washer
	10	3,2x18.019 GOST 397-79	2	Forelock
	11	920-1802015	1	Lever
	12	920-1802012	1	Casing
	13	70-4605308-B	1	Bushing
	14	3,2x20.019 GOST 397-79	1	Forelock
	15	920-1802020	1	Bracket
	16	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	17	8T OST 37.001.115-75	2	Washer
	18	C 8.01.019 GOST 6958-78	2	Washer
	19	C.6.01.019 GOST 6958-78	2	Washer
	20	6T OST 37.001.115-75	2	Washer
	21	B.M6-6gx14.58.019 GOST 17473-80	2	Screw
	22	10,0-60 GOST 3722-81	1	Ball
	23	50-1702148-A	1	Spring
	24	C20 GOST 13940-86	1	Ring
	25	920-1802031-A	1	Bracket
	26	952-1802032	1	Bushing

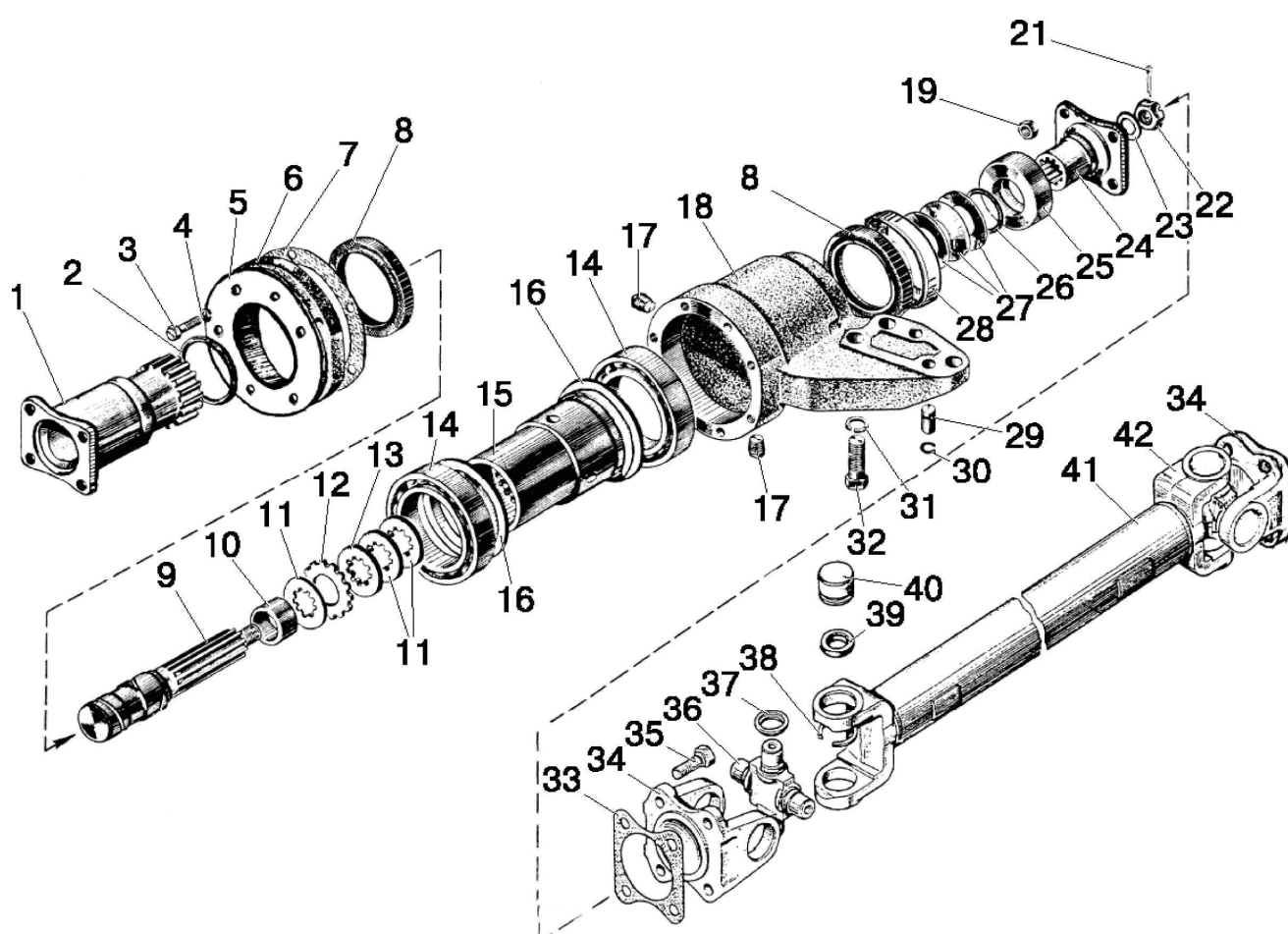


Fig. 22.1. Cardan shaft. Cardan shaft intermediate support.

Group 22. Cardan drive
Subgroup 2203, 2209. Cardan shaft. Cardan shaft intermediate support

Fig.No	Pos.No	Designation	Q-ty	Name
22.1		72-2203010-A2	2	Primary and intermediate cardan shaft (34, 36-42)
		72-2203025PH	4	Cross bar with oil-seals and bearings (36, 37, 39, 40)
		72-2209100	1	Oil-seal housing (6, 8)
		72-2209010-A	1	Intermediate support (1-18, 21-30)
	1	72-2209014	1	Flange
	2	055-065-58-1-4 GOST 18829-73/9833-73	1	Ring
	3	8-6gx30.88.35.019 GOST 7796-70	5	Bolt
	4	8T OST 37.001.115-75	5	Washer
	5	72-2209028	1	Mudguard
	6	72-2209022	1	Housing
	7	72-2209023	1	Gasket
	8	2.2-75x100-1 GOST 8752-79	2	Collar
	9	72-2209013	1	Shaft
	10	72-2209017	1	Bushing
	11	72-2209019	3	Disk
	12	72-2209025	10-11	Disk
	13	72-2209027	10	Disk
	14	115K5 GOST 8338-75	2	Bearing
	15	72-2209012	1	Bushing
	16	72-2209018	2	Yoke
	17	ПК КГ 3/8"	2	Plug
	18	72-2209011	1	Bracket
	19	M10x1-8 DIN EN ISO 10511-98	16	Nut
	21	4x25.019 GOST 397-79	1	Forelock
	22	70-3003032	1	Nut
	23	52-1802079	1	Washer
	24	52-1802078-A	1	Flange
	25	72-2209016-B	1	Washer
	26	038-046-46-1-4 GOST 18829-73/9833-73	1	Ring
	27	72-2209021	6	Spring
	28	72-2209031	1	Yoke
	29	52-2308094	2	Pin
	30	12-12-306	2	Ring
	31	16OT OST 37.001.115-75	3	Washer
	32	72-2203011	3	Bolt
	33	20-2201024	4	Gasket
	34	72-2203023	4	Flange
	35	52-2203012	16	Bolt M10x1
	36	72-2203030-01	4	Cross bar
	37	3102-2201037	16	Deflector
	38	72-2203043	16	Retainer ring
	39	69-2201031-A	16	Collar
	40	704702K3C10 TU 37.006.065-90	16	Bearing
	41	72-2201018-02	2	Pipe
	42	72-2203022	4	Fork

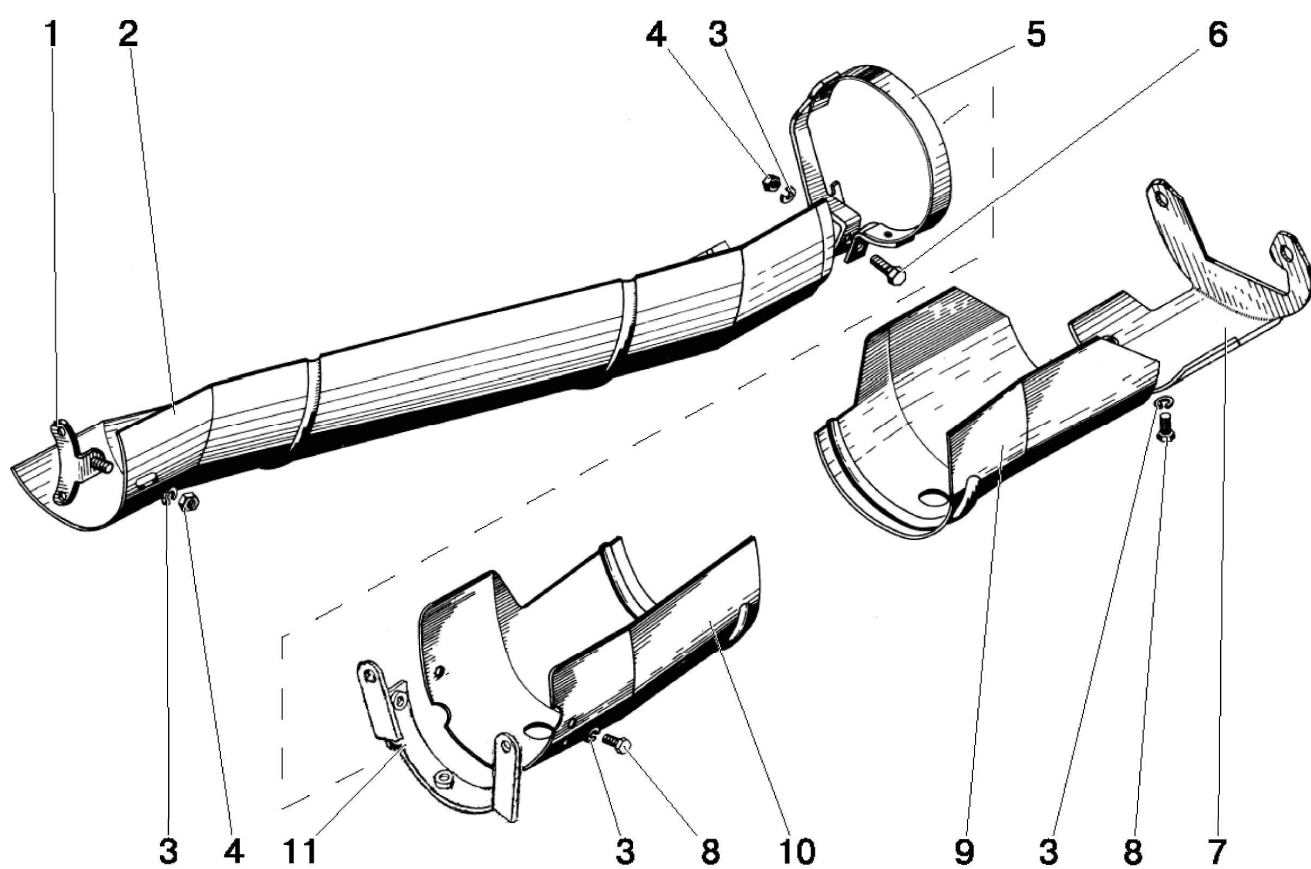


Fig.22.2. Cardan drive guard.

Group 22. Cardan drive
Subgroup 2210. Cardan drive guard

Fig.No	Pos.No	Designation	Q-ty	Name
22.2		72-2203040	1	Cardan drive guard (1-11)
	1	52-2210040	1	Support bracket
	2	72-2210013	1	Rear casing
	3	8T OST 37.001.115-75	7	Washer
	4	M8-6H.6.019 GOST 5915-70	2	Nut
	5	72-2210030	1	Clamp
	6	M8-6gx40.88.35.019 GOST 7796-70	1	Bolt
	7	52-2210015	1	Bracket
	8	M8-6gx16.88.35.019 GOST 7796-70	5	Bolt
	9	52-2210012-A	1	Front casing
	10	52-2210017-A	1	Casing
	11	72-2210020-A	1	Bracket

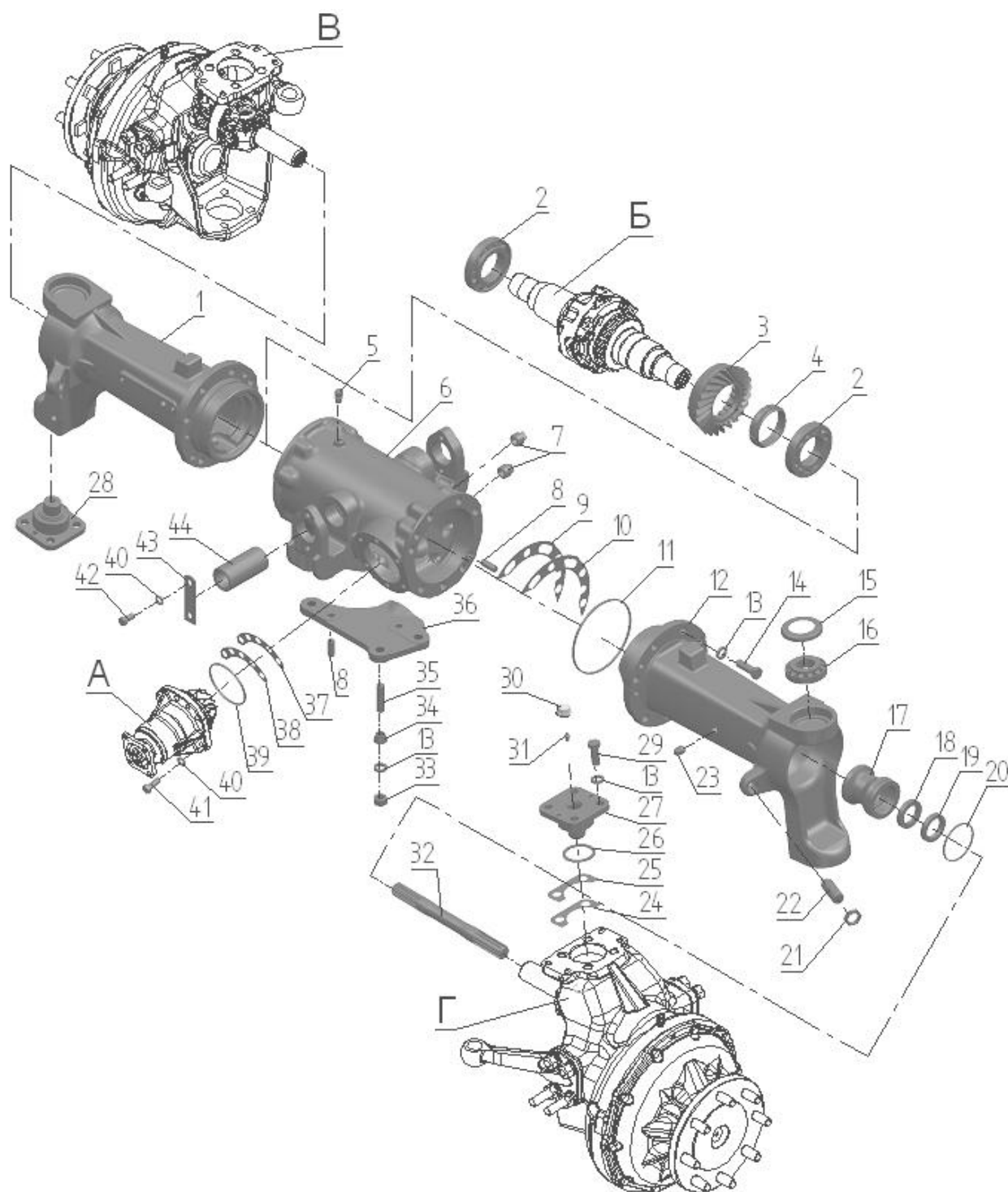


Fig.23.1. Front driving axle 822-2300020

Group 23. Front driving axle
Subgroup 2300. Front driving axle 822-2300020

Fig.No	Pos.No	Designation	Q-ty	Name
23.1		822-2300020-02* 822-2300020-04	1	Front driving axle assembly
	A	52-2302010	1	Gear (see Fig.23.2)
	B	52-2303010-B-01	1	Differential unit (see Fig.23.3)
	B	822-2308005	1	Left final drive reduction gear unit of front driving axle (see Fig.23.4)
	Г	822-2308005-01	1	Right final drive reduction gear unit of front driving axle (see Fig.23.4)
	1	822-2301051-01* 822-2301051	1	Left hose
	2	263212A TU RB 00234873.002-97	2	Bearing
	3	52-2302019	1	Driven gear
	4	52-2302038-A1	1	Nut
	5	"MINTOR" TSS0G-1/8"	1	Breather
	6	72-2301055	1	Housing
	7	ПК КГ 3/4"	2	Plug
	8	Д01-015	6	Adjusting pin
	9	52-2303027	16(max)	Shim B=0,5 mm
	10	52-2303028	16(max)	Shim B=0,2 mm
	11	150-155-36-1-4 GOST 18829-73/9833-73	2	Ring
	12	822-2301053-01* 822-2301053	1	Right hose
	13	16 ОТ OST 37.001.115-75	33	Washer
	14	M16-6gx45.88.35.019 GOST 7796-70	14	Bolt
	15	1520-2308039	4	Cage
	16	1027307A (31307) GOST 27365-87	4	Bearing
	17	822-2308100	2	Yoke
	18	1.2-38x58-1 GOST 8752-79/OST 3805146-78	2	Collar
	19	2.2-38x58-1 GOST 8752-79/OST 3805146-78	2	Collar
	20	075-080-30-1-4 GOST 18829-73/9833-73	2	Ring
	21	85-3407113	2	Nut
	22	1520-2308009	2	Screw
	23	ПК КГ 3/8"	2	Plug
	24	52-2302021	6(max)	Shim B=0,5 mm
	25	52-2302022	10(max)	Shim B=0,2 mm
	26	055-063-46-1-4 GOST 18829-73/9833-73	4	Ring
	27	1520-2308037	3	Axis
	28	1520-2308037-01	1	Axis
	29	M16-6gx40.88.35.019 GOST 7796-70	16	Bolt
	30	85-4607447	4	Cap
	31	1.3.Ц9.xp GOST 19853-74	4	Oiler
	32	822-2308065-01* 822-2308065	2	Shaft
	33	M16-6H.6.019 GOST 5915-70	3	Nut
	34	1520-2308077	3	Bushing
	35	1520-2308079	3	Stud
	36	922-2301023-B-01* 822-2301023-B-01	1	Cylinder bracket
	37	1520-2308042	8(max)	Shim B=0,2 mm
	38	1520-2308042-01	20(max)	Shim B=0,5 mm
	39	089-095-36-1-4 GOST 18829-73/9833-73	1	Ring
	40	12 ОТ OST 37.001.115-75	6	Washer
	41	M12-6gx30.88.35.019 GOST 7796-70	6	Bolt
	42	M12-6gx25.88.35.019 GOST 7796-70	4	Bolt
	43	72-2301059-A1	2	Plate
	44	52-2301058-A4	2	Axis

* upon request (FDA with expanded hoses)

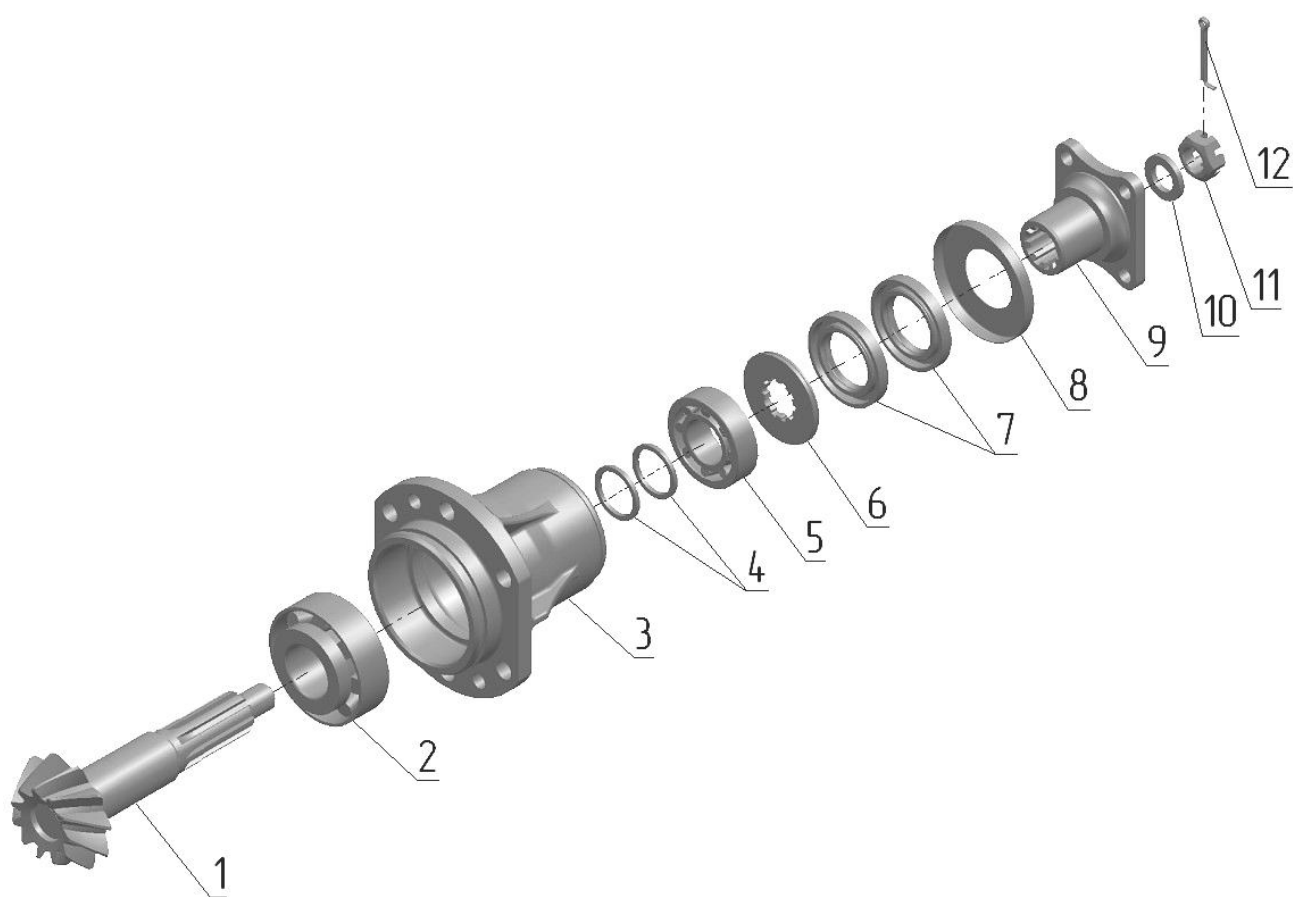


Fig. 23.2. Gear

Group 23. Front driving axle
Subgroup 2302. Main gear of front driving axle

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

* Selected at the bearing regulation

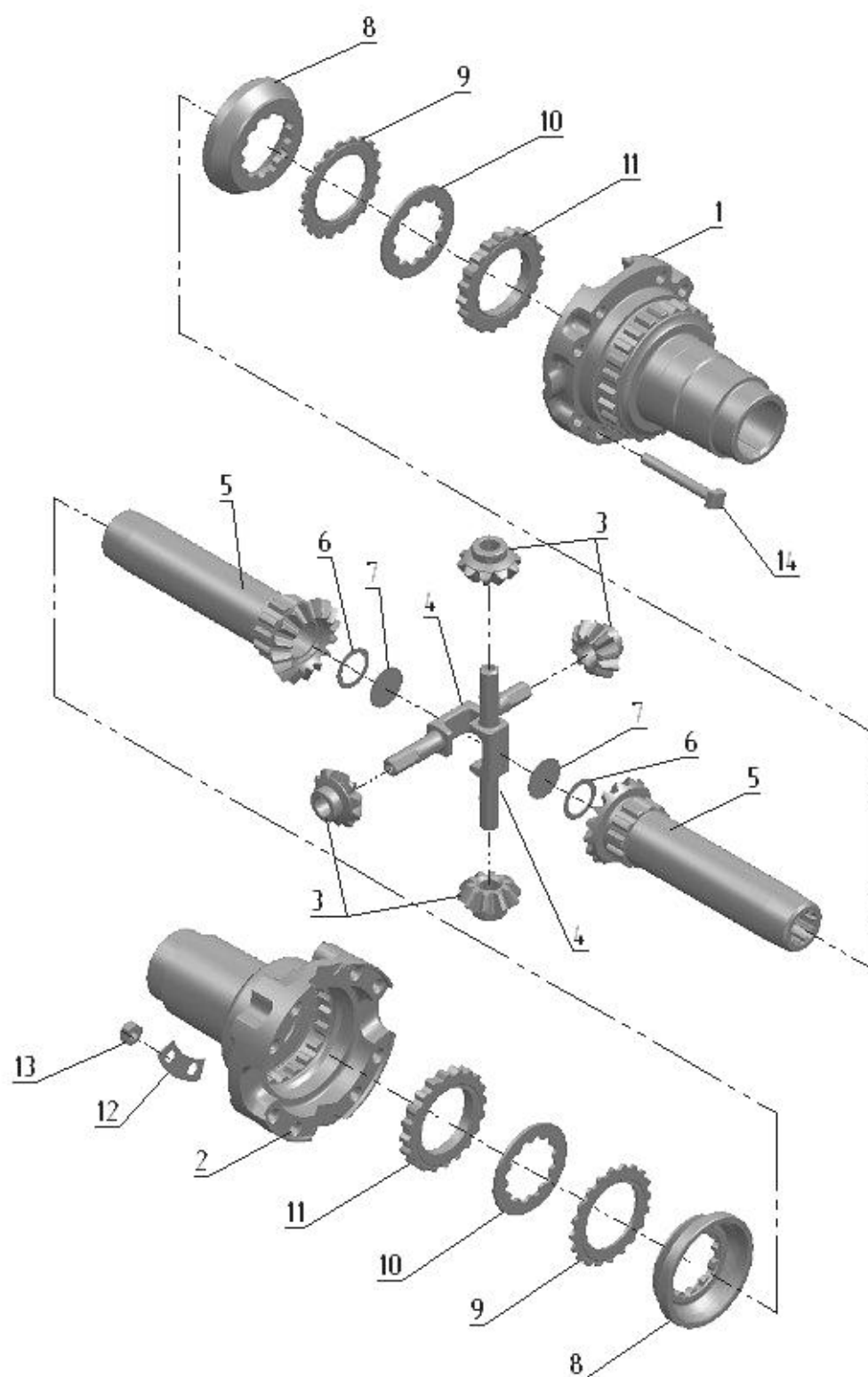


Fig. 23.3. Differential unit

Group 23. Front driving axle
Subgroup 2303. Differential unit

Fig.No	Pos.No	Designation	Q-ty	Name
23.3		52-2303010-Б-01	1	Differential unit (1-14)
		52-2303030	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 GOST 3111-81	2	Blind plug
	8	52-2303021	2	Cup
	9	52-2303023-A1-01	2	Disk
	10	52-2303024-01	2	Disk
	11	52-2303023-A1	2	Disk
	12	52-2303032	4	Plate
	13	52-2303013	8	Nut
	14	52-2303026-Б	8	Bolt

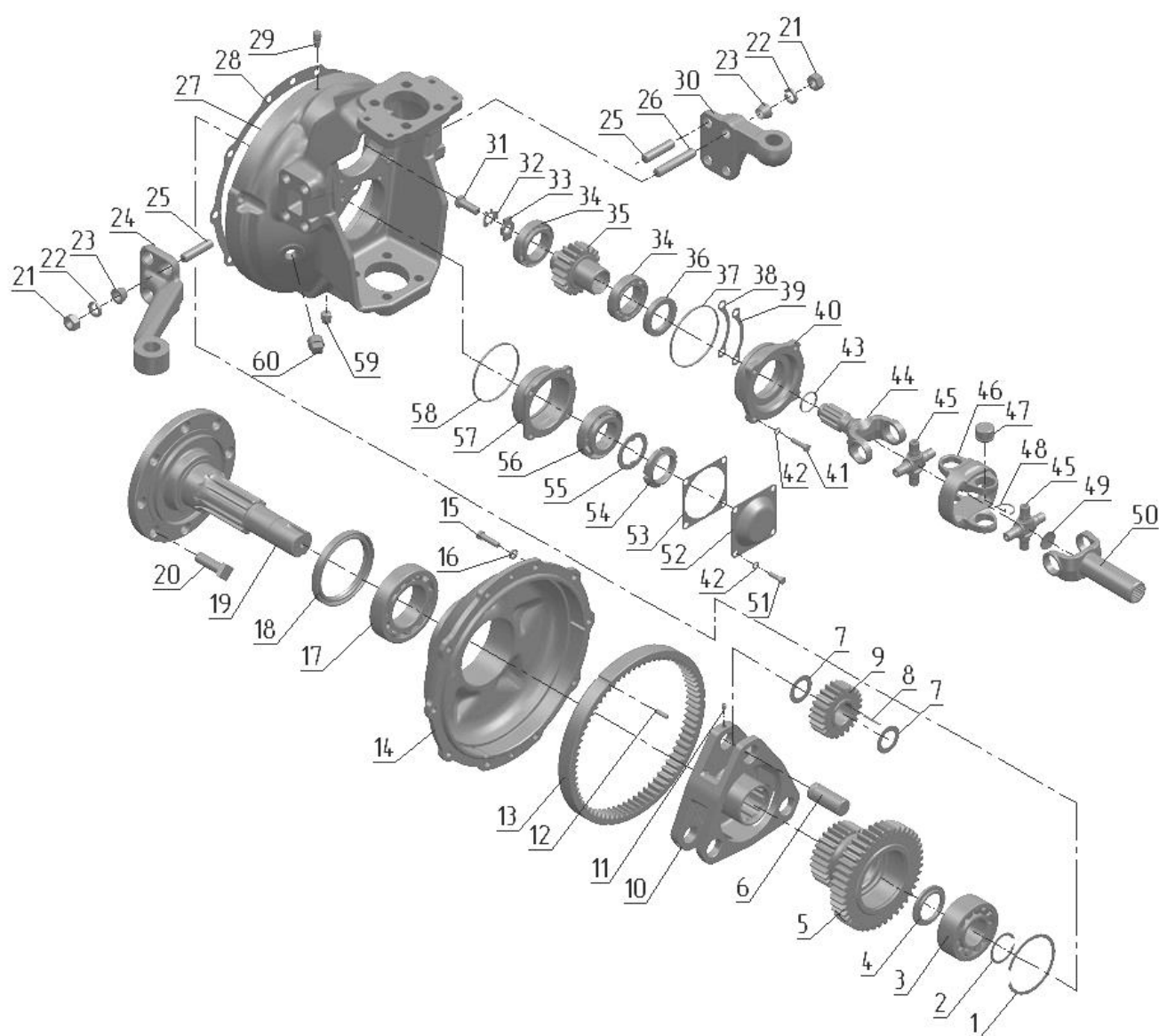


Fig. 23.4. Final drive reduction gear unit of front driving axle

Group 23. Front driving axle
Subgroup 2308. Final drive reduction gear unit of front driving axle

Fig.No	Pos.No	Designation	Q-ty	Name
23.4		822-2308005	1	Left reduction gear unit (1-60)
		822-2308005-01	1	Right reduction gear unit (1-60)
		1520-2308024-20	2	Double hinge (43-50)
		1520-2308040-01	2	Housing (27, 29, 31-50)
		1520-2308080	2	Cage (36, 37, 40)
		1521-2308020	2	Cover (12-14)
		1521-2308030	2	Pinion cage (6-11)
		1521-2308050-01	2	Hub (1-20)
	1	2C100 GOST 13941-86	2	Ring
	2	C45 GOST 13940-86	2	Ring
	3	53609 GOST 24696-81	2	Bearing
	4	1520-2308038	2	Ring
	5	1520-2308062-01	2	Gear set (z=39)
	6	1520-2308053	6	Axis
	7	1520-2308054	12	Washer
	8	4x34,8A3 GOST 6870-81	156	Roller
	9	1520-2308059	6	Satellite gear
	10	1521-2308056	2	Pinion cage
	11	1520-2308011	6	Screw
	12	2.8x25 GOST 3128-70	6	Pin
	13	1520-2308064	2	Gear
	14	1521-2308016	2	Cover
	15	M10-6gx35.88.35.019 GOST 7796-70	20	Bolt
	16	10 OT OST 37.001.115-75	20	Washer
	17	7514A GOST 27365-87	2	Bearing
	18	2.2-100x125-1 GOST 8752-79/OST 3805146-78	2	Collar
	19	1521-2308017-01	2	Flange
	20	40-3103016	16	Front wheel bolt
	21	M16-6H.6.019 GOST 5915-70	16	Nut
	22	16 OT OST 37.001.115-75	16	Washer
	23	1520-2308077	12	Bushing
	24	822-2308074	1	Left lever
		822-2308075	1	Right lever
	25	1520-2308079	11	Stud
	26	1520-2308079-02	1	Stud
	27	1520-2308015	2	Housing
	28	1520-2308034	2	Gasket
	29	"MINTOR" TSS0G-1/8"	2	Breather
	30	1021-2308076	1	Bracket
	31	1521-2308012	2	Bolt
	32	1521-2308031	2	Locking plate
	33	1521-2308013	2	Washer
	34	2007109 GOST 27365-87	4	Bearing
	35	1520-2308061-01	2	Gear (z=20)
	36	2.2-45x65-1 GOST 8752-79/OST 3805146-78	2	Collar
	37	100-105-30-2-4 GOST 18829-73/GOST 9833-73	2	Ring
	38	1520-2308021	20(max)	Shim B=0,2 mm
	39	1520-2308021-01	8(max)	Shim B=0,5 mm
	40	1520-2308035	2	Cage
	41	M8-6gx35.88.35.019 GOST 7796-70	8	Bolt
	42	8T OST 37.001.115-75	16	Washer

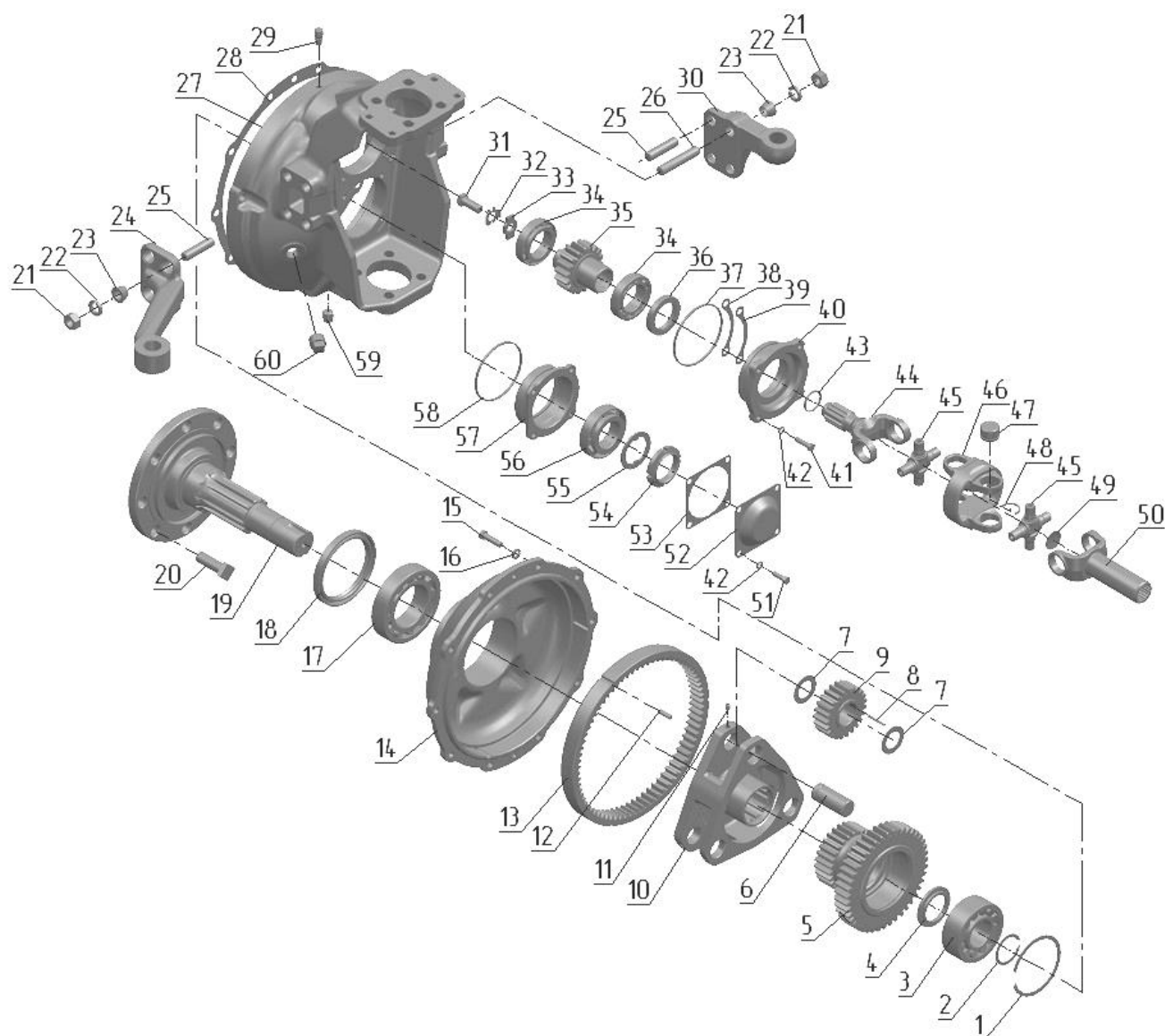


Fig. 23.4. Final drive reduction gear unit of front driving axle

Group 23. Front driving axle
Subgroup 2308. Final drive reduction gear unit of front driving axle

Fig.No	Pos.No	Designation	Q-ty	Name
23.4	43	032-036-25-2-4 OST 18829-73/GOST 9833-73	2	Ring
	44	1520-2308063-10	2	Fork
	45	72-2203026-11	4	Cross bar
	46	15.22.01.013-10	2	Double hinge fork
	47	704702K3C10 TU 37.006.065-90	16	Bearing
	48	24-2201043-01	16(max)	Lock ring
		24-2201043-10	16(max)	Lock ring
		24-2201043-20	16(max)	Lock ring
		24-2201043-30	16(max)	Lock ring
	49	32	2	Blind plug
	50	1520-2308048	2	Fork
	51	M8-6gx25.88.35.019 GOST 7796-70	8	Bolt
	52	1520-2308004	2	Cover
	53	1520-2308003	2	Gasket
	54	80-1701045	2	Nut
	55	80-1701056	2	Washer
	56	7509A GOST 27365-87	2	Bearing
	57	1520-2308002	2	Cage
	58	095-100-30-1-4 GOST 18829-73/9833-73	2	Ring
	59	ПК КГ 3/8"	2	Plug
	60	ПК КГ 3/4"	2	Plug

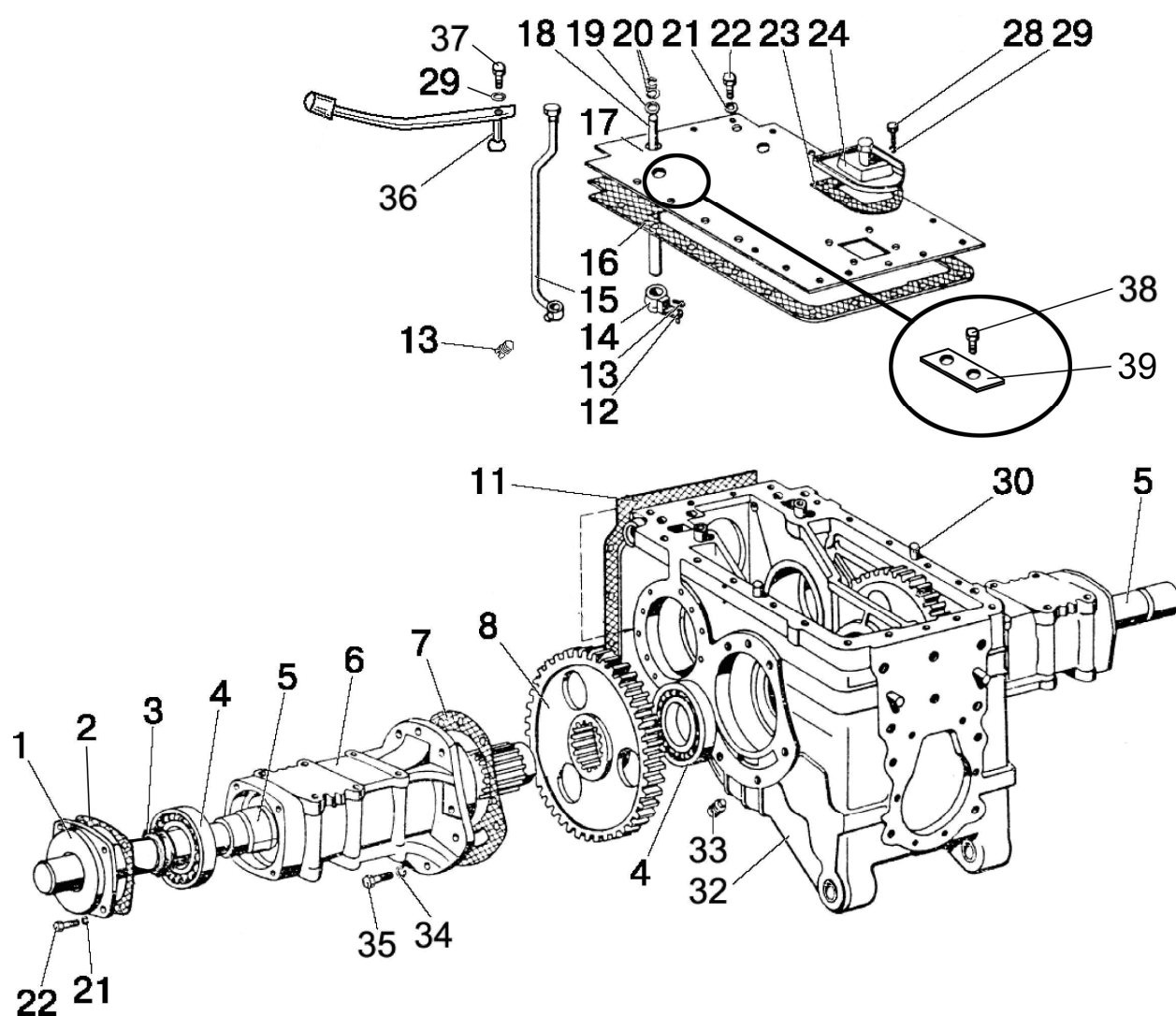


Fig.24.1. Rear axle housing. Final drive

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

Fig.No	Pos.No	Designation	Q-ty	Name
24.1		70-2401010-01	1	Rear axle (1-37) (double-disk brake)
		70-2401010-04	1	Rear axle (1-37) (tripple-disk brake)
		70-2401010-05	1	Rear axle (1-39)(double-disk brake, hydraulic lift)
		70-2401010-06	1	Rear axle (1-39)(tripple-disk brake, hydraulic lift)
		50-2407020-A-01	2	Semi-axle tube (1-6, 21, 22)
		50-2401040	1	Control shaft (18-20)
		50-2407030	2	Tube cover (1, 3)
	1	50-2407028	2	Cover
	2	50-2407029	2	Gasket
	3	2.2-80x105-1 GOST 8752-79/OST 3805146-78	2	Collar
	4	217 A GOST 8338-75	4	Bearing
	5	50-2407082-A-01	2	Semi-axis
	6	50-2407018-A-01	2	Semi-axle tube
	7	50-2407031-B	4	Gasket
	8	50-2407122	2	Gear
	11	50-2401016-B	2	Gasket
	12	1,6-O-C GOST 3282-74	1	Wire (200 mm)
	13	36-1702110	2	Screw
	14	50-2401020	1	Shifter arm
	15	80-2401050*	1	Lever
		74-2401050**	1	Lever
	16	50-2401025-A	1	Gasket
	17	70-2401024*	1	Cover
		70-2401024-01**	1	Cover
	18	50-2401019-B	1	Shaft
	19	020-025-30-1-4 GOST 18829-73/9833-73	1	Ring
	20	50-2401031	2	Washer
	21	12 OT OST 37.001.115-75	19	Washer
	22	M12-6gx30.88.35.019 GOST 7796-70	19	Bolt
	23	50-2401027-A	1	Gasket
	24	50-2401060-A*	1	Cover with breather
		1221-2401026**	1	Cover
	28	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	29	8T OST 37.001.115-75	4	Washer
	30	Д01-015	2	Pin
	32	50-2401015-01*	1	Housing
		50-2401015-07**	1	Housing
	33	70-1701300	1	Plug 1 1/4"
	34	16 OT OST 37.001.115-75	18	Washer
	35	M16-6gx50.88.35.019 GOST 7796-70	17	Bolt
	36	85-2401080-A	1	Lever
	37	M8-6gx55.88.35.019 GOST 7795-70	1	Bolt
	38	600-2401026**	1	Bolt
	39	600-2401014**	1	Plate

*tractor is equipped with the draft control unit

**tractor is equipped with hydraulic lift

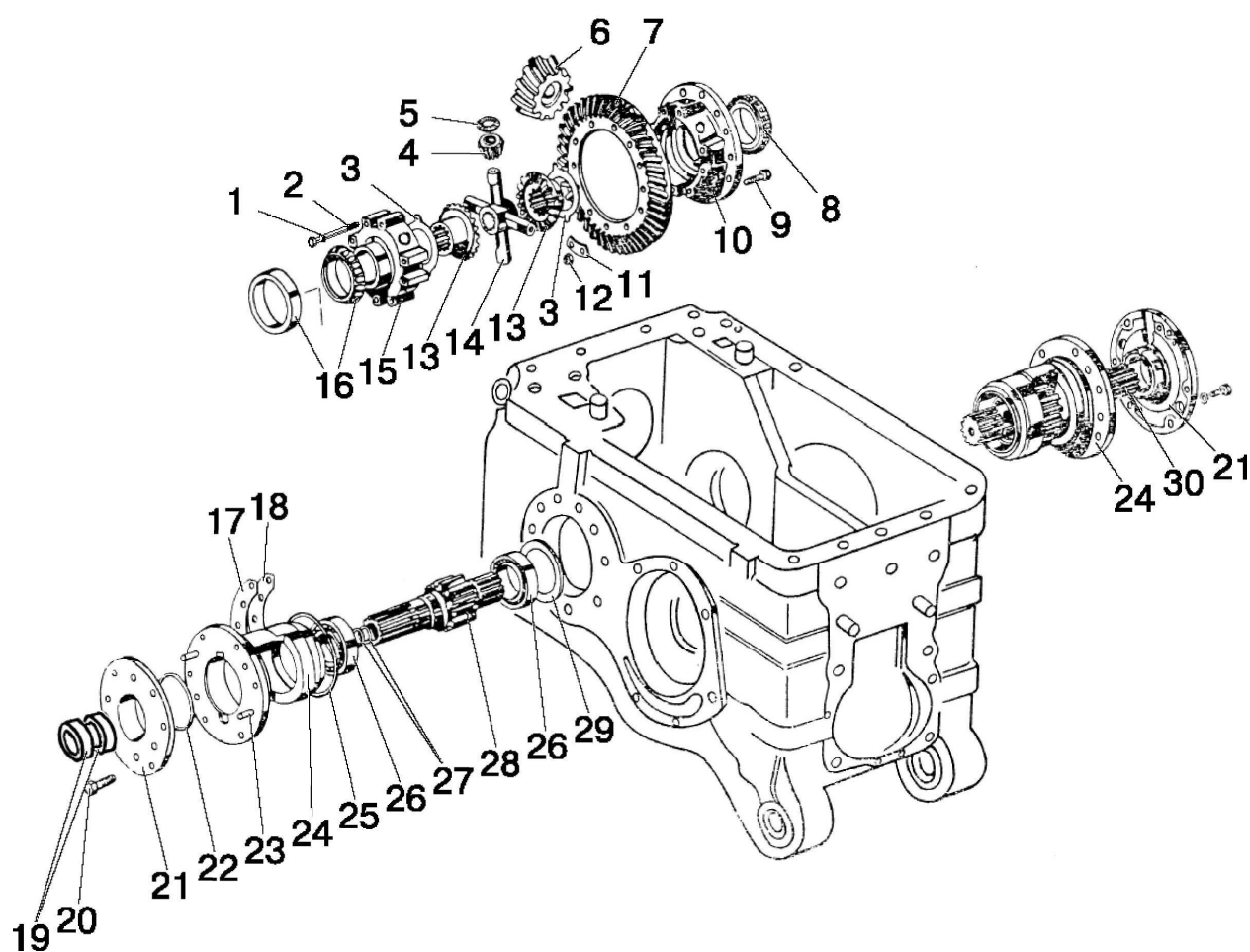


Fig.24.2. Differential unit. Bearing carrier

Group 24. Rear axle
Subgroup 2403. Differential unit. Bearing carrier

Fig. No	Pos.No	Designation	Q-ty	Name
24.2		85-2403020	1	Differential unit (1-5, 9-15)
		50-2403014	1	Pair of main drive gears (6, 7)
		50-2407050-A-01	2	Cage cover (19, 21, 22)
		85-2403015	1	Differential unit housing (10,15)
		70-2407060	1	Left cage (24-29) (double-disk brake)
		70-2406060-04		Left cage (24-29) (tripple-disk brake)
		70-2407060-01	1	Right cage (24-27, 29, 30) (24-29) (double-disk brake)
		70-2407060-05		Right cage (24-27, 29, 30) (24-29) (triple-disk brake)
	1	12 OT OST 37.001.115-75	8	Washer
	2	50-2403034-A	8	Bolt
	3	50-2403049-B	2	Thrust washer
	4	85-2403055-01	4	Satellite gear with bushing
	5	85-2403025	4	Satellite gear washer
	6	50-1701105-B	1	Drive gear
	7	50-2403021-B or 50-2403021-B-01	1	Driven gear
	8	7515A GOST 27365-87	1	Bearing
	9	50-1702092	12	Tight-fitting bolt
	10	85-2403018	1	Housing
	11	50-2403023	6	Lock plate
	12	M12-6H.6.019 GOST 5915-70	12	Nut
	13	50-2403048	2	Semi-axis gear
	14	50-2403062-A2	1	Cross bar
	15	85-2403019	1	Cover
	16	7215A GOST 27365-87	1	Bearing
	17	50-2407056	14	Gasket 0,5 mm
	18	50-2407057	10	Gasket 0,2 mm
	19	KΦA-50x70	4	Collar
	20	M12-6gx25.88.35.019 GOST 7796-70	4	Bolt
	21	85-2407059	2	Cage cover
	22	LC110-1414045-4 (104-110-40-1-4 GOST 18829-73/9833-73)	2	Ring
	23	50-1601352	4	Pin
	24	50X-2407042	2	Cage
	25	160-165-36-1-4 GOST 18829-73/9833-73	2	Ring
	26	6-42212KM GOST 8328-75	4	Bearing
	27	035-040-30-1-4 GOST 18829-73/9833-73	4	Ring
	28	70-2407053 70-2407053-04	1	Left gear (double-disk brake) Left gear (tripple-disk brake)
	29	85-2407043	2	Ring
	30	70-2407053-01 70-2407053-05	1	Right gear (double-disk brake) Right gear (tripple-disk brake)

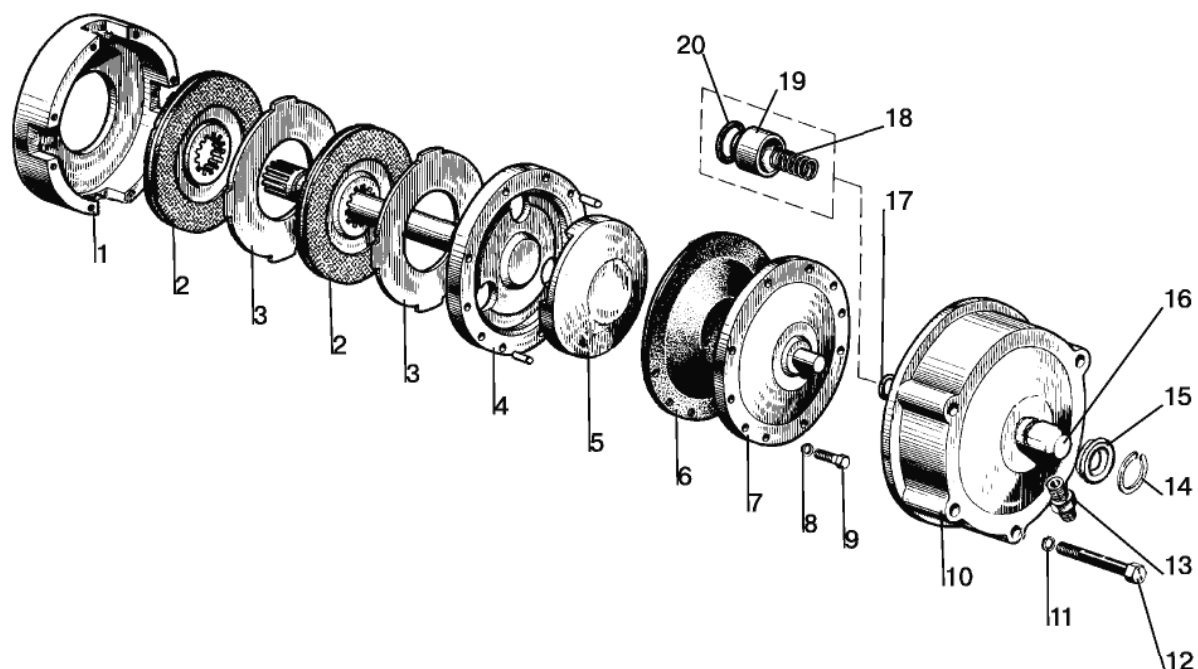


Fig. 24.3. Differential locking mechanism

Group 24. Rear axle
Subgroup 2409. Differential locking mechanism

Fig.No	Pos.No	Designation	Q-ty	Name
24.3		70-2409010-B 70-2409010-B-01*	1	Lockup coupling (1-9)
		82P-2409050	1	Adapter (10, 13-20)
	1	70-2409015-A	1	Coupling 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-B	1	Diaphragm cover
	8	8T OST 37.001.115-75	8	Washer
	9	M8-6gx40.88.35.019 GOST 7795-70	8	Bolt
	10	70-2409035-A6	1	Casing
	11	12 OT OST 37.001.115-75	5	Washer
	12	M12-6gx200.58.019 GOST 7795-70 1522-2409034*	5	Bolt
	13	70-2409037	1	Coupling
	14	C40 GOST 13940-86	1	Ring
	15	82P-2409036A	1	Seal
	16	70-2409026-B	1	Adapter
	17	020-025-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	18	54-06-448-A	1	Spring
	19	70-2409027-A	1	Bushing
	20	70-2409033-B	1	Ring

* Version with tripple-disk brakes

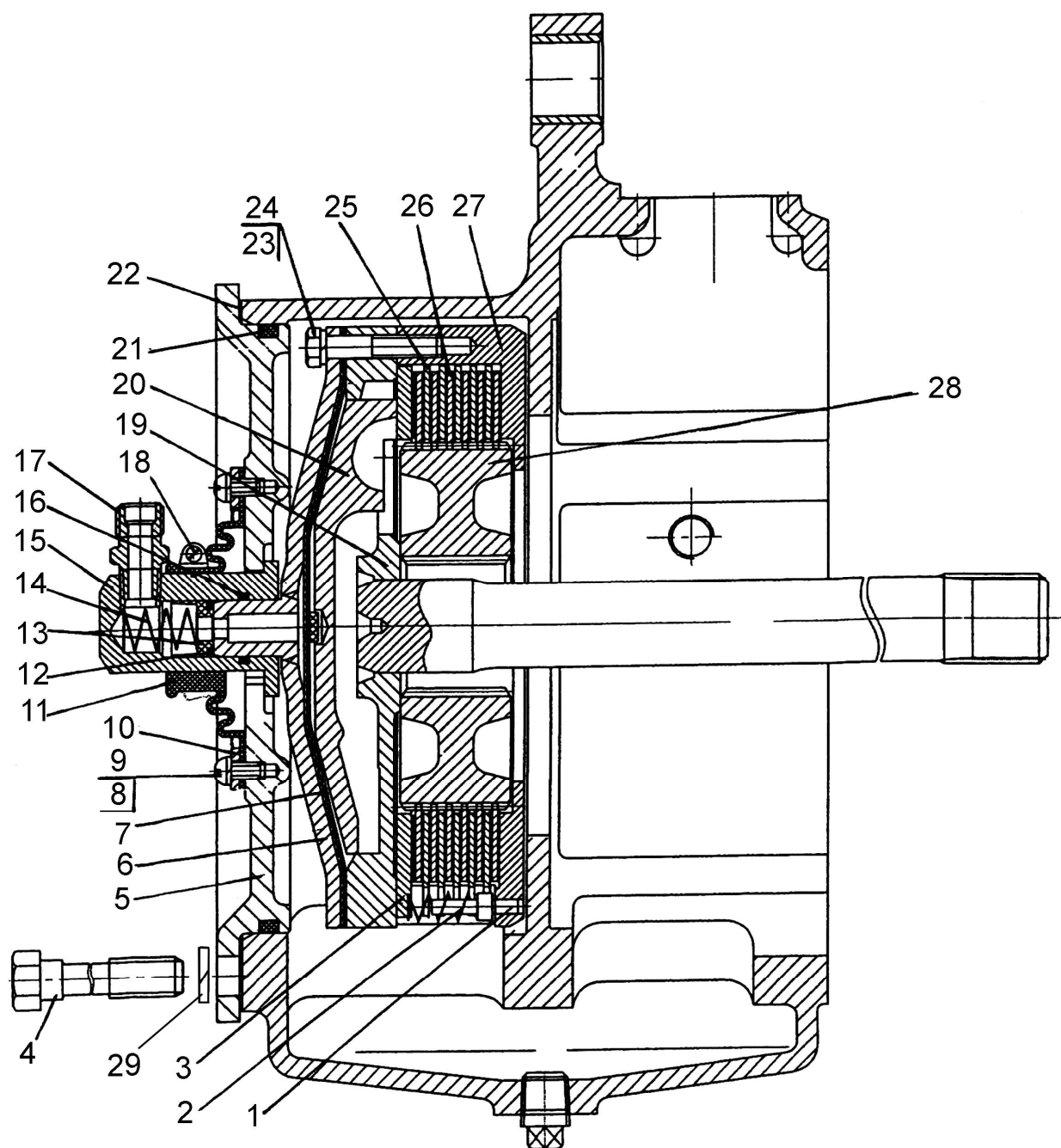


Fig.24.4. Differential locking mechanism of wet type

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

Fig.No	Pos.No	Designation	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
	5	1221M-2409034	1	Cover
	6	70-2409030-B	1	Diaphragm cover
	7	70-2409021	1	Diaphragm
	8	B.M6-6gx10.58.019 GOST 17473-80	8	Screw
	9	6T OST 37.001.115-75	8	Washer
	10	80M-2409037	1	Ring
	11	80M-2409036	1	Seal
	12	70-2409033-B	1	Ring
	13	70-2409027-A	1	Bushing
	14	54-06-448-A	1	Spring
	15	70-2409026-B	1	Adapter
	16	020-025-30-1-4 GOST 18829-73/9833-73	1	Ring
	17	70-2409037	1	Coupling
	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 GOST 18829-73/9833-73	1	Ring
	22	1221M-2409051	1	Gasket
	23	M8-6gx40.88.35.019 GOST 7795-70	8	Bolt
	24	8T OST 37.001.115-75	8	Washer
	25	80M-2409016	5	Intermediate disk
	26	2522-1802035-A	6	Drive disk
	27	80M-2409015	1	Coupling housing
	28	80M-2409001	1	Hub
	29	14 OT OST 37.001.115-75	5	Washer

* Selected during the installation for required gap

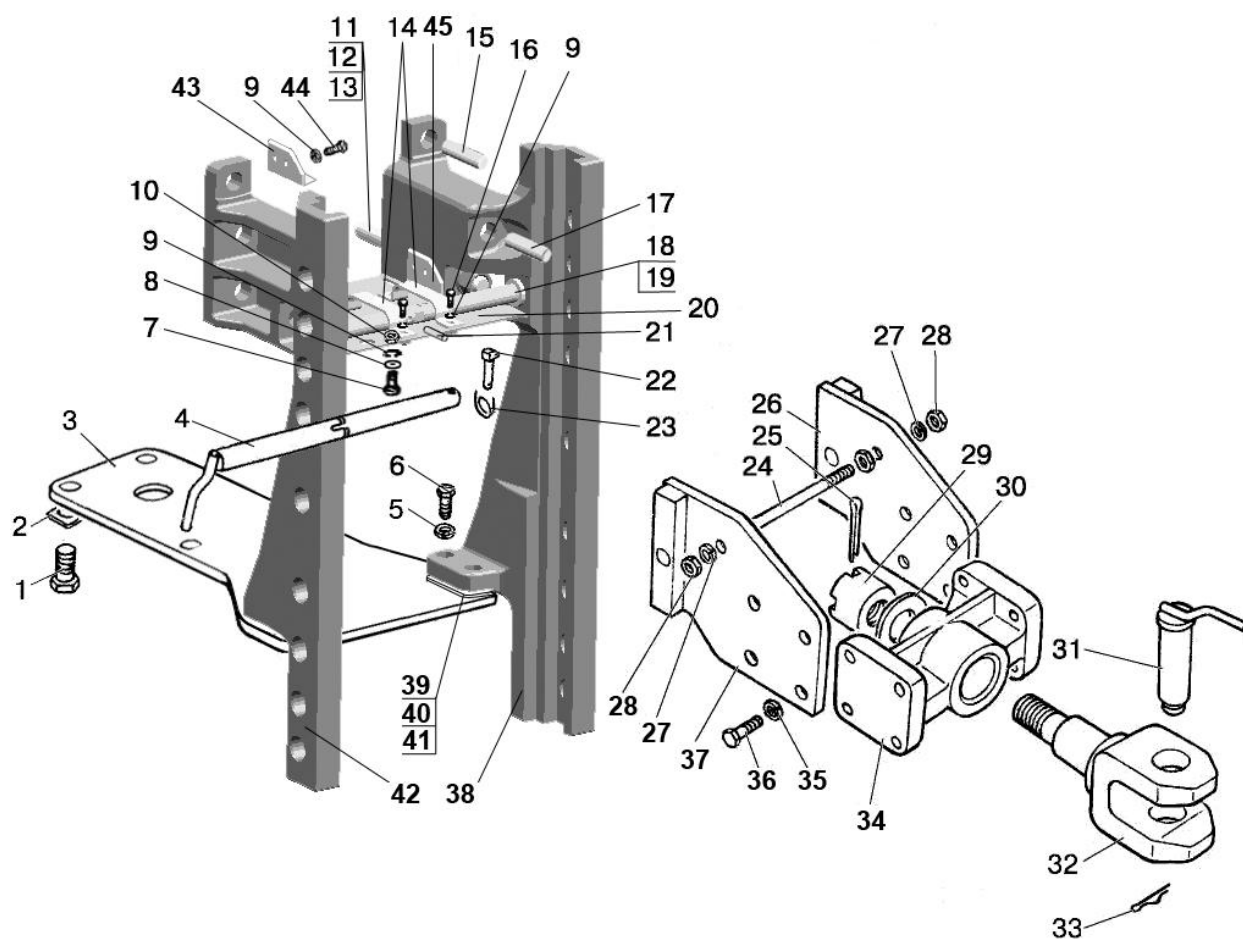


Fig.27.1 Drawbar hitch

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

Fig.No	Pos.No	Designation	Q-ty	Name
27.1		1322-2707210	1	Drawbar hitch
	1	1321-2707014	4	Bolt
	2	1222-2707137	2	Plate
	3	1321-2707011-B	1	Plate
	4	1321-2707030	1	Pin
	5	16 OT OFCT 37.001.115-75	4	Washer
	6	1220-4605506	4	Bolt
	7	M6-6gx18.88.35.019 GOST 7798-70	1	Bolt
	8	C 6.01.019 GOST 11371-78	1	Washer
	9	6T OST 37.001.115-75	9	Washer
	10	M6-6H.6.019 GOST 5915-70	1	Nut
	11	921-2707068-02	2	Stud
	12	M20-6H.6.019 GOST 5915-70	6	Nut
	13	20 OT OST 37.001.115-75	6	Washer
	14	1321-2707083-B	2	Joke
	15	921-2707068	2	Stud
	16	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	17	921-2707068-03	2	Stud
	18	1322-2707274	1	Buckle
	19	1322-2707211	1	Bushing
	20	1322-2707280	1	Shield assembly
	21	A.6x30.65Г GOST 14229-93	1	Pin
	22	A61.05.005	1	Chock
	23	A61.05.004	1	Ring
	24	1522-2707244	1	Buckle
	25	6,3x63.019 GOST 397-79	1	Forelock
	26	1321-2707070-B-01	1	Plate
	27	16 OT OST 37.001.115-75	2	Washer
	28	M16-6H.6.019 GOST 5915-70	4	Nut
	29	1522-2707243	1	Nut
	30	1522-2707242	1	Washer
	31	1522-2707079-A	1	Kingpin
	32	921-2707055	1	Fork
	33	A61.07.001-A	1	Forelock
	34	1321-2707051-B	1	Bracket
	35	20 OT OST 37.001.115-75	8	Washer
	36	680-2707024	8	Bolt
	37	1321-2707070-B	1	Plate
	38	1322-2707261	1	Side bar
	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 bar
	43	1322-2707262-01	1	Bracket
	44	M6-6gx16.88.35.019 GOST 7798-70	4	Bolt
	45	1322-2707262	1	Bracket

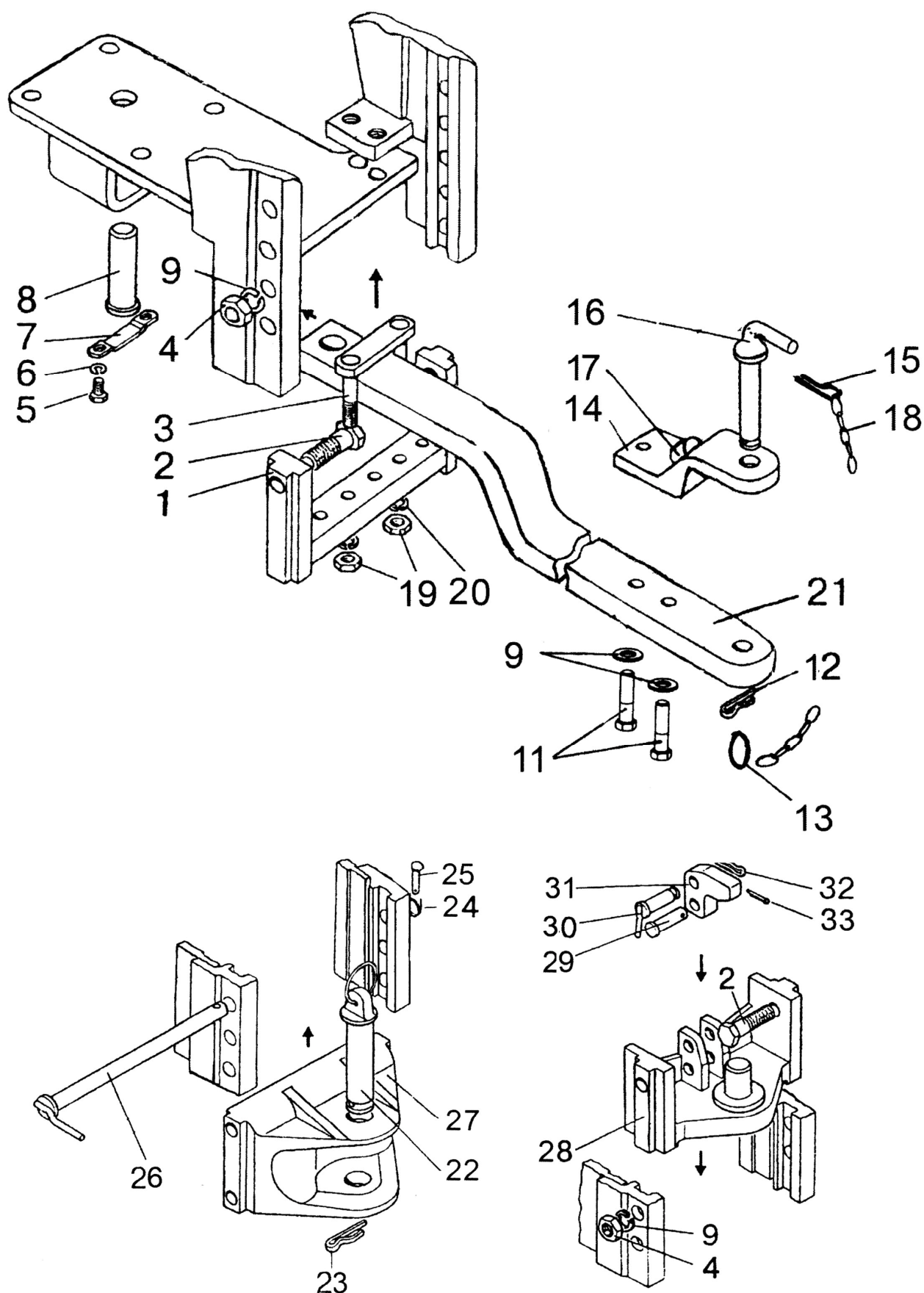


Fig.27.2. Drawbar hitch (configuration variants)

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

Fig.No	Pos.No	Designation	Q-ty	Name
27.2		1321-2707150-B	1	Rod (9-18,21)
		1322-2707160	1	Python (28-33)
	1	1322-2707130-B	1	Cross bar
	2	1322-2707133	4	Bolt
	3	1322-2707120-B	1	Joke
	4	M20-6H.6.019 GOST 5915-70	4	Nut
	5	M10-6gx20.88.35.019 GOST 7796-70	2	Bolt
	6	10 OT OST 37.001.115-75	2	Washer
	7	1522-2707126	1	Plate
	8	1522-2707127	1	Axis
	9	20 OT OST 37.001.115-75	6	Washer
	11	1523-2707149-B	2	Bolt
	12	A61.07.001-A	1	Forelock
	13	H50-4202146	1	Ring
	14	1523-2707143	1	Lining
	15	3,2x25.019 GOST 397-79	1	Forelock
	16	1522-2707079-A	1	King pin
	17	1523-2707142	1	Joke
	18	70-4235035	2	Chain
	19	M16-6H.6.019 GOST 5915-70	2	Nut
	20	16 OT OST 37.001.115-75	2	Washer
	21	1321-2707144-B	1	Rod
	22	1321-2707140-B	1	King pin
	23	1321-2707042	1	Forelock
	24	A61.05.004	1	Ring
	25	A61.05.005	1	Chock
	26	1522-2707030	1	Pin
	27	1321-2707113-A or	1	Fork (EURO) L=110 mm
		1321-2707111-A	1	Fork (GOST) L=160 mm
	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	4x36.019 GOST 397-79	1	Forelock

L – distance from PTO shaft end surface to kingpin axis.

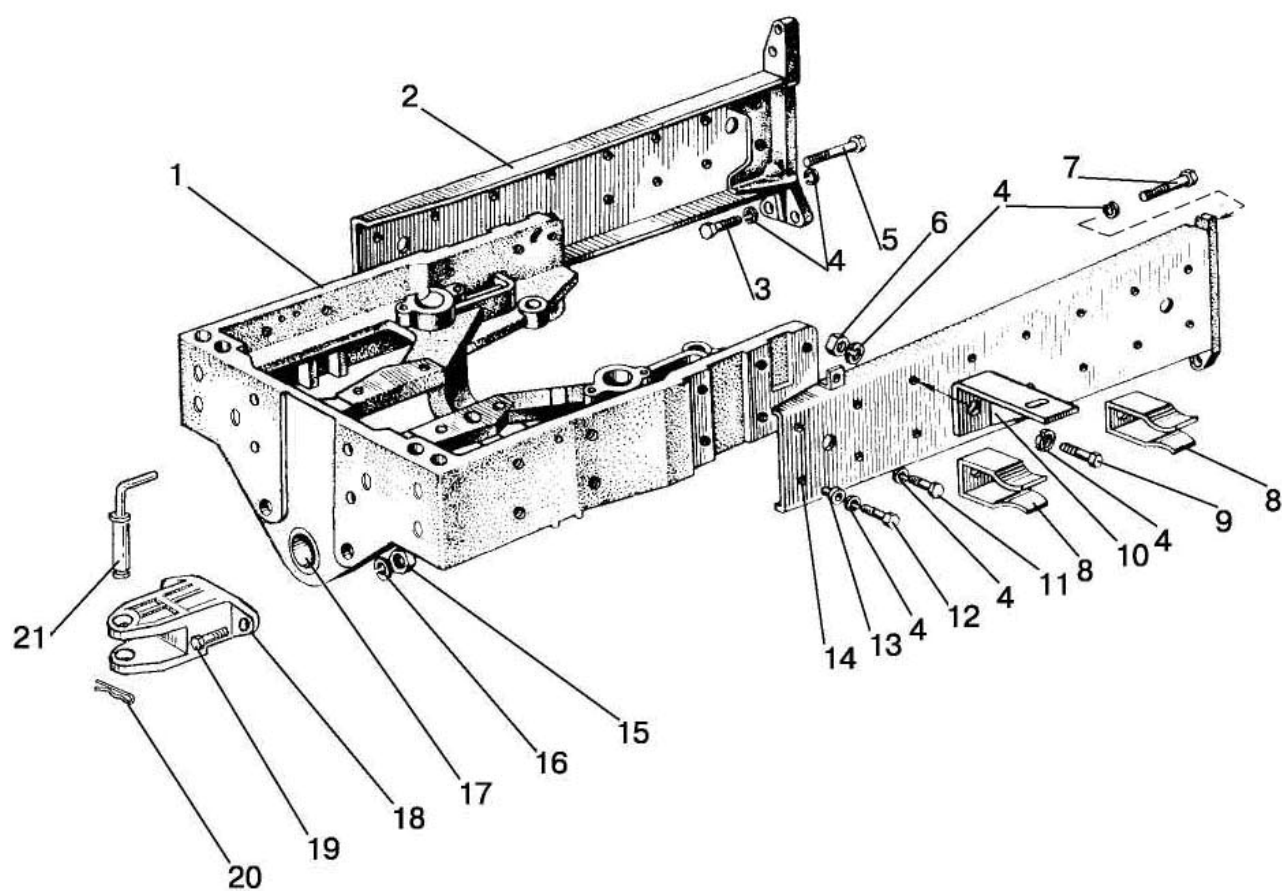


Fig. 28.1. Semi-frame

Group 28. Frame
Subgroup 2801. Semi-frame

Fig.No	Pos.No	Designation	Q-ty	Name
28.1		1025-2800010-01	1	Semi-frame (1, 2, 11-14, 17)
		1025-2801120	1	Front beam (1,17)
		80-2806010-01 ¹⁾	1	Front towing device (15,16,18,19)
	1	1025-2801124	1	Front beam
	2	80-2801050-01	1	Right spar
	3	M16-6gx60.88.35.019 GOST 7796-70	6	Bolt
	4	16 OT OST 37.001.115-75	25	Washer
	5	M16-6gx120.88.35.019 GOST 7795-70	2	Bolt
	6	M16-6H.6.019 GOST 5915-70	1	Nut
	7	M16-6gx150.88.35.019 GOST 7795-70 (permitted 70-2800016-01)	2	Bolt
	8	50-3913214	2	Clamp
	9	M16-6gx32.88.35.019 GOST 7796-70	2	Bolt
	10	80-3919106	2	Bracket
	11	M16-6gx32.88.35.019 GOST 7796-70	8	Bolt
	12	M16-6gx45.88.35.019 GOST 7796-70	4	Bolt
	13	50-2800011	4	Bushing
	14	80-2801060-01	1	Left spar
	15	M20-6H.6.019 GOST 5915-70 ¹⁾	2	Nut
	16	20 OT OST 37.001.115-75 ¹⁾	2	Washer
	17	40-3001022	2	Bushing
	18	80-2806011 ¹⁾	1	Front towing device
	19	70-4605036 ¹⁾	2	Bolt
	20	A61.07.001 ¹⁾	2	Forelock
	21	50-4605079-B ¹⁾	1	King pin

¹⁾ mounted if no front ballast

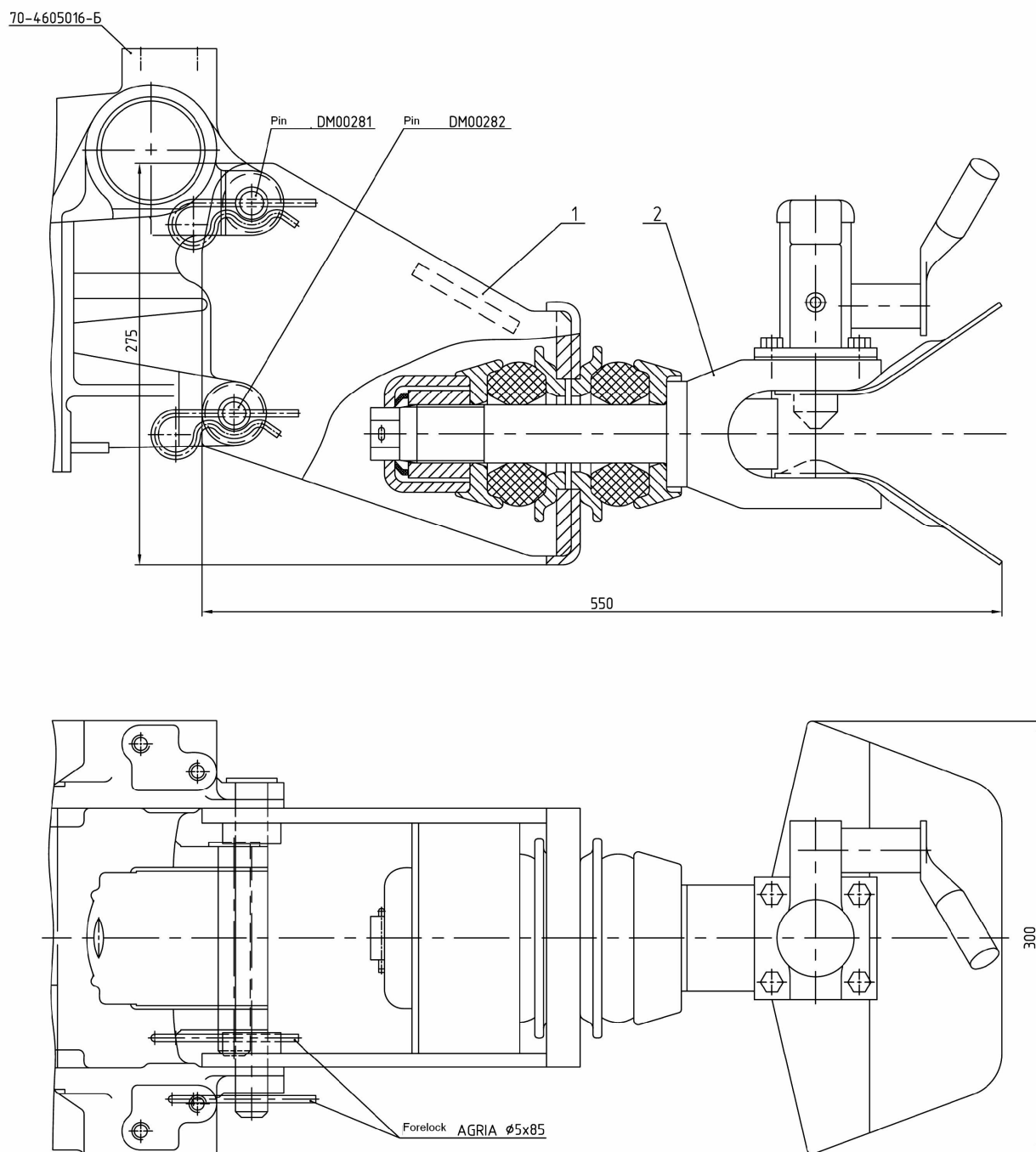


Fig.28.2. Towing device

Group 28. Frame
Subgroup 2805. Towing device

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
28.2	1		1	Bracket 550 0364-2
	2		1	Towing device ACV-40

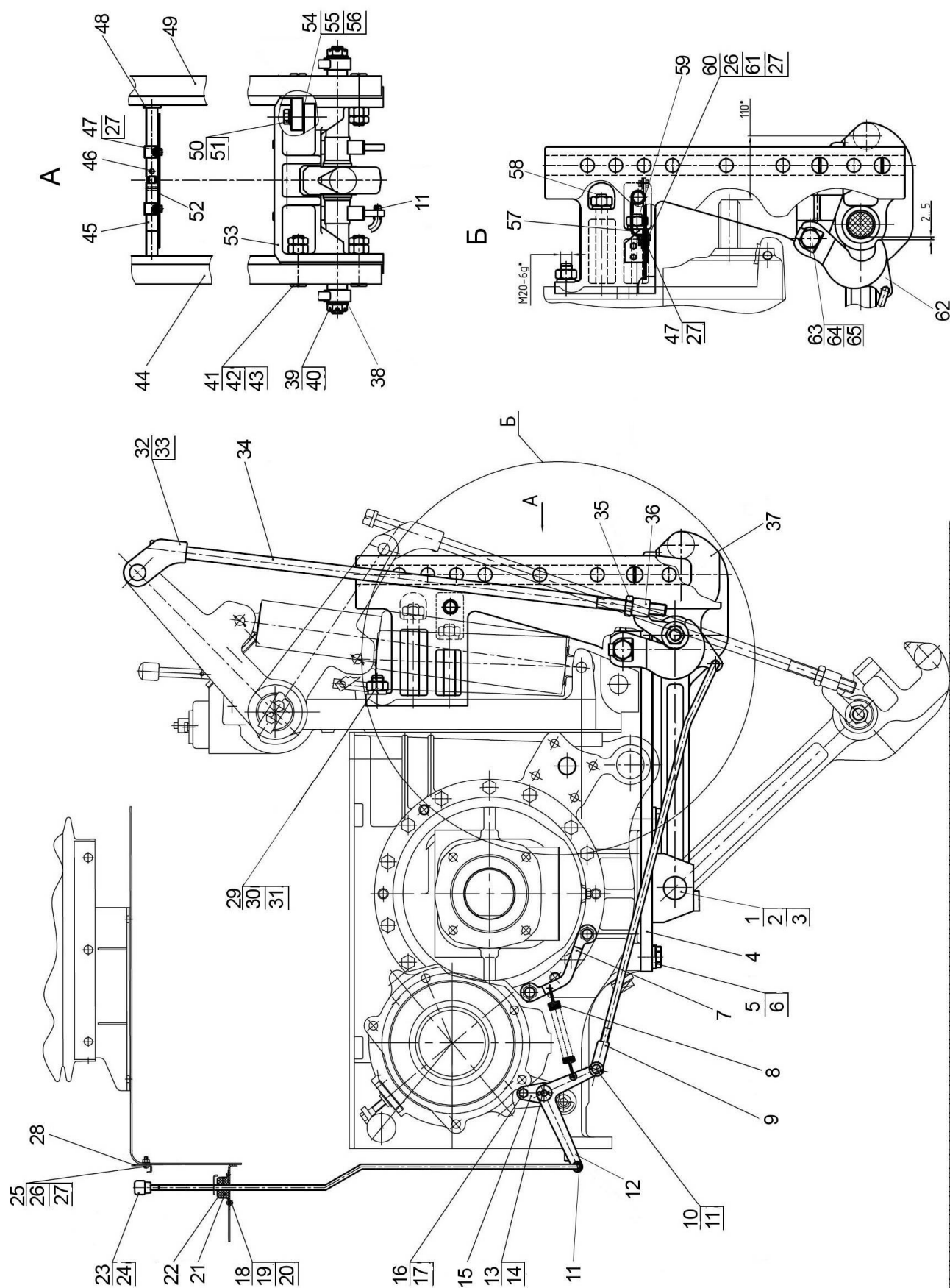
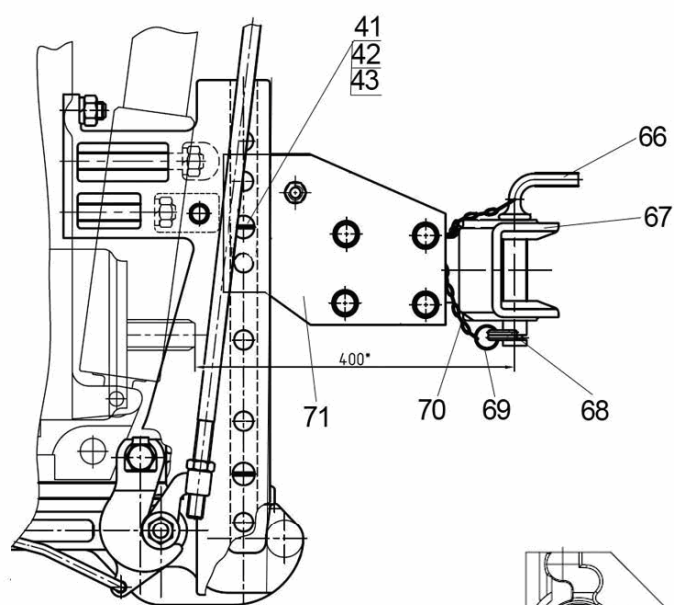


Fig.28.3. Trailer hook K1220-2807010-A

Group 28. Frame
Subgroup 2807. Trailer hook K1220-2807010-A

Fig.No	Pos.No	Designation	Q-ty	Name
28.3, 28.4		K1220-2807150	1	Rod (31,66,68,70-77)
		K1220-2807015	1	Bracket (53,62-65)
		K80-2807185	1	Handle (23,24)
		1321-2707050-B1	1	Fork (66-71)
	1	K1220-2807013	1	Pin
	2	36-3503018	1	Washer
	3	6,3x36.019 GOST 397-79	1	Forelock
	4	K1220-2807020	1	Bracket
	5	1321-2707014	4	Bolt
	6	1222-2707137	2	Plate
	7	70-2807081	1	Spring carrier
	8	50-1605152	1	Spring
	9	K1220-2807040	1	Rod
	10	12x32 OST 37.001.163-97	1	Pin
	11	3,2x18.019 GOST 397-79	3	Forelock
	12	70-2807079	1	Lever
	13	C 16.01.019 GOST 11371-78	1	Washer
	14	3,2x25.019 GOST 397-79	1	Forelock
	15	K1220-2807045	1	Axis flange
	16	M10-6gx16.88.35.019 GOST 7796-70	1	Bolt
	17	10 OT OST 37.001.115-75	1	Washer
	18	B.M4-6gx8.58.019 GOST 17473-80	3	Screw
	19	M4-6H.6.019 GOST 5927-70	3	Nut
	20	4 OST 37.001.115-75	3	Washer
	21	85-2807093	2	Seal
	22	50-1103031-01	1	Housing
	23	50-1310136-A	1	Handle
	24	K80-2807180	1	Handle
	25	B.M6-6gx16.58.019 GOST 17473-80	2	Screw
	26	M6-6H.6.019 GOST 5915-70	3	Nut
	27	6T OST 37.001.115-75	7	Washer
	28	85-2807092	1	Bracket
	29	921-2707068	2	Stud
	30	M20-6H.6.019 GOST 5915-70	6	Nut
	31	20 OT OST 37.001.115-75	12	Washer
	32	K1220-2807051	1	Clip (right)
	33	K1220-2807051-01	1	Clip (left)
	34	70-2807052-B-02	2	Screw
	35	40-3405062	2	Nut
	36	70-2807053-B	2	Nut
	37	K1220-2807005	1	Hook (with axis)
	38	C 20.01.019 GOST 11371-78	2	Washer
	39	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	40	4x36.019 GOST 397-79	2	Forelock
	41	K1220-2807012	6	Pin
	42	1321-2707013	6	Nut
	43	M20x1,5-6H.6.019 GOST 5915-70	6	Nut
	44	1322-2707260-01	1	Side bar assembly (left)
	45	1322-2707274	1	Buckle
	46	A.6x30.65Г GOST 14229-93	1	Pin
	47	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	48	1322-2707211	1	Bushing
	49	1322-2707260	1	Side bar assembly (right)
	50	1220-4605506	4	Bolt
	51	16 OT OST 37.001.115-75	6	Washer

Version



Version 2

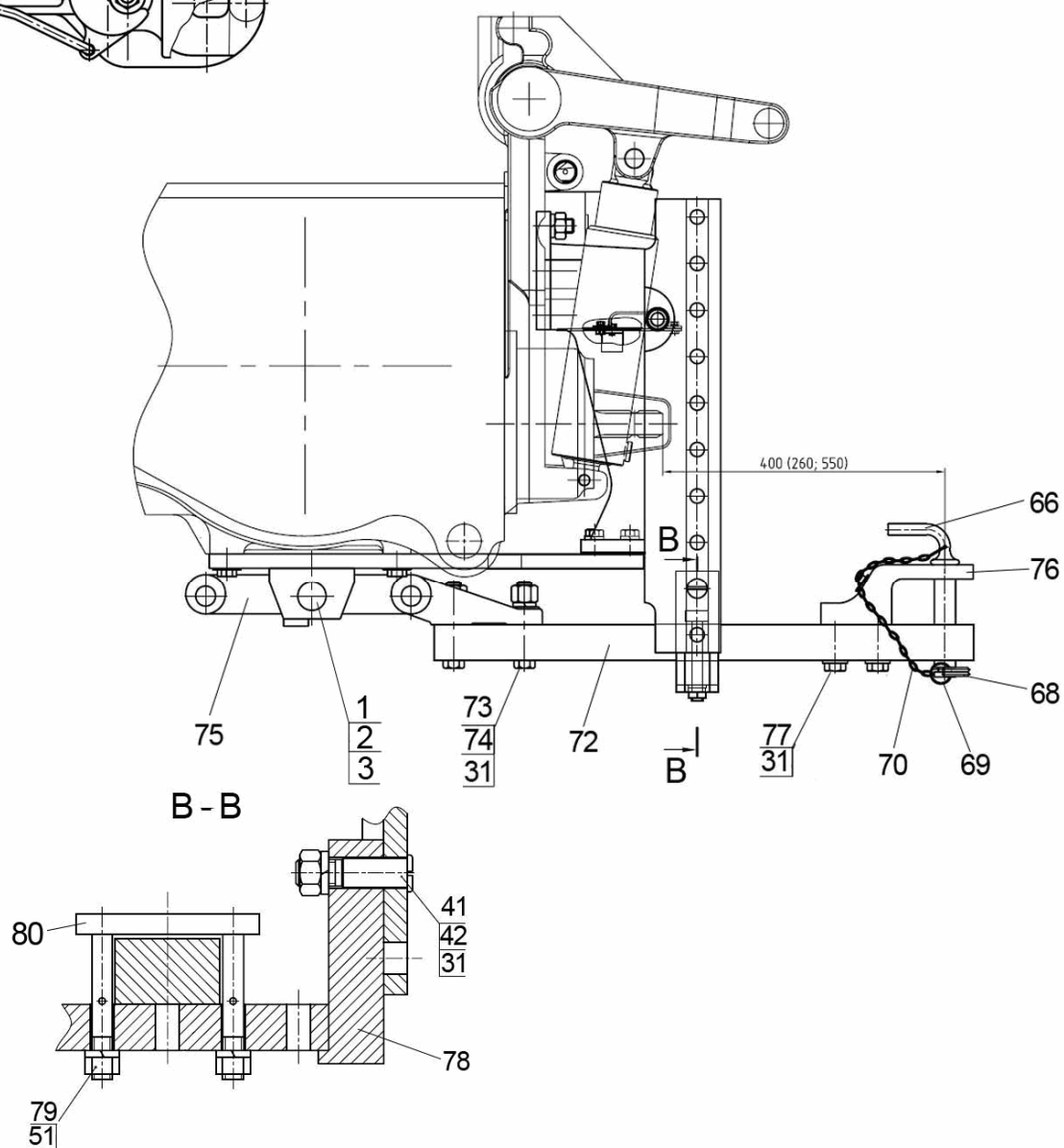


Fig.28.4. Trailer hook K1220-2807010-A (versions)

Group 28. Frame
Subgroup 2807. Trailer hook K1220-2807010-A

Fig.No	Pos.No	Designation	Q-ty	Name
28.3, 28.4	52	1322-2707280	1	Shield assembly
	53	K1220-2807014	1	Bracket
	54	900-2707135	2	Plate (S=0,5 mm)
	55	900-2707135-01	2	Plate (S=1 mm)
	56	900-2707135-02	2	Plate (S=0,2 mm)
	57	1321-2707083-B	1	Joke
	58	921-2707068-03	2	Stud
	59	921-2707068 -02	2	Stud
	60	M6-6gx18.88.35.019 GOST 7798-70	1	Bolt
	61	C 6.01.019 GOST 11371-78	1	Washer
	62	K1220-2807077	2	Hold
	63	K1220-2807047	1	Hold center
	64	70-2707137	2	Bolt
	65	70-2707153	2	Washer
	66	1522-2707079-A	1	King pin
	67	921-2707055	1	Fork
	68	A61.07.001-A	1	Forelock
	69	H50-4202146	6	Ring
	70	2,5x14	2	Chain (33 links)
	71 (see Fig.27.1)	1321-2707070-B	1	Plate
		1321-2707070-B-01	1	Plate
		1321-2707051-B	1	Bracket
		1522-2707242	1	Washer
		1522-2707243	1	Nut
		1522-2707244	1	Buckle
		680-2707024	4	Bolt
		M16-6H.04.019 GOST 5916-70	4	Nut
		6,3x63.019 GOST 397-79	1	Forelock
		16 OT OST 37.001.115-75	2	Washer
		20 OT OST 37.001.115-75	8	Washer
	72	K1220-2807144	1	Rod
	73	K1220-2807149	2	Bolt
	74	921-2707066	2	Nut
	75	K1220-2807124	1	Clip
	76	1523-2707145	1	Lining
	77	1523-2707149	2	Bolt
	78	1322-2707130	1	Cross bar
	79	M16-6H.6.019 GOST 5915-70	2	Nut
	80	1322-2707120-B	1	Joke

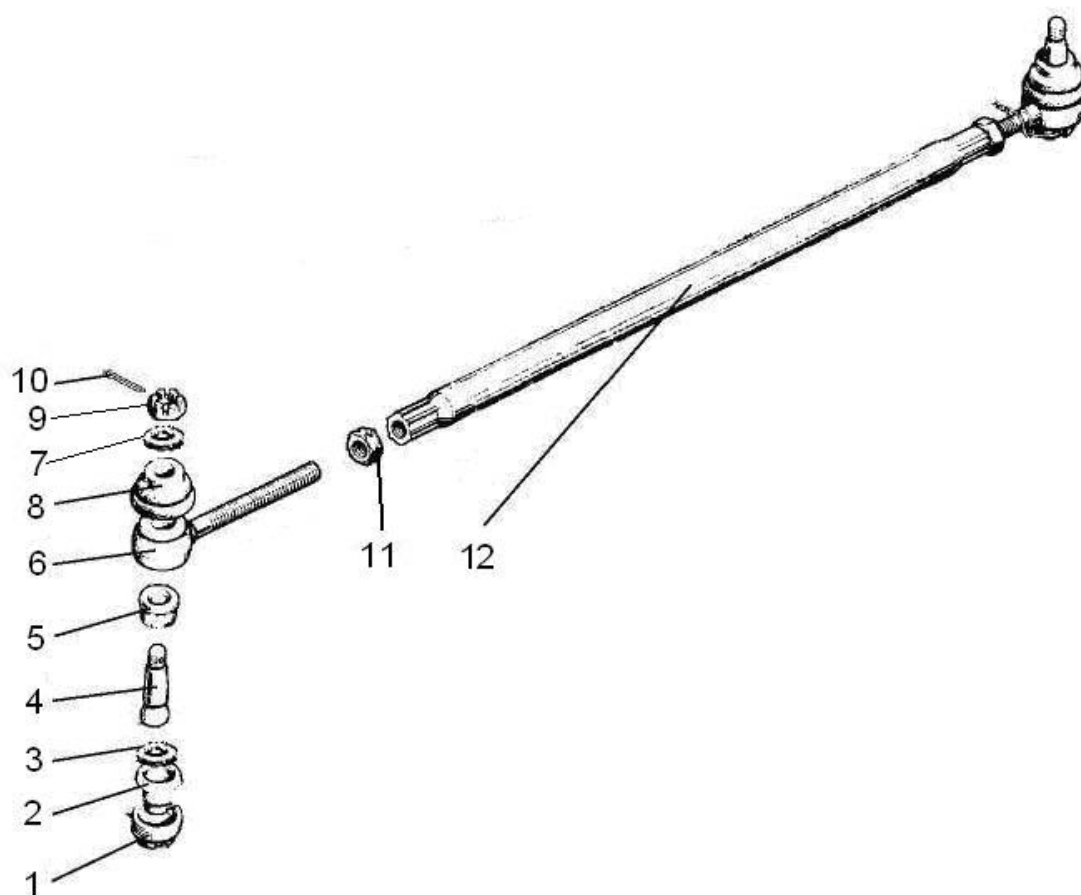


Fig.30.1. Steering link

Group 30. Steering link
Subgroup 3003. Steering link

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
30.1		822-3003010	1	Steering link (1-11)
	1	50-3003018-B (A35.32.006)	2	Plug
	2	1220-3003028	2	Lower insert
	3	1220-3003027	2	Insert
	4	1220-3003021	2	Ball pin
	5	1220-3003023	2	Upper insert
	6	822-3003022	1	Hinge housing with right-handed thread
		822-3003022-01	1	Hinge housing with left-handed thread
	7	1220-3003029	2	Ring
	8	1220-3003025-A	2	Casing
	9	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	10	4x36.019 GOST 397-79	2	Forelock
	11	1220-3003013	1	Lock nut with right-handed thread
		1220-3003013-01	1	Lock nut with left-handed thread
	12	1220-3003011	1	Pipe

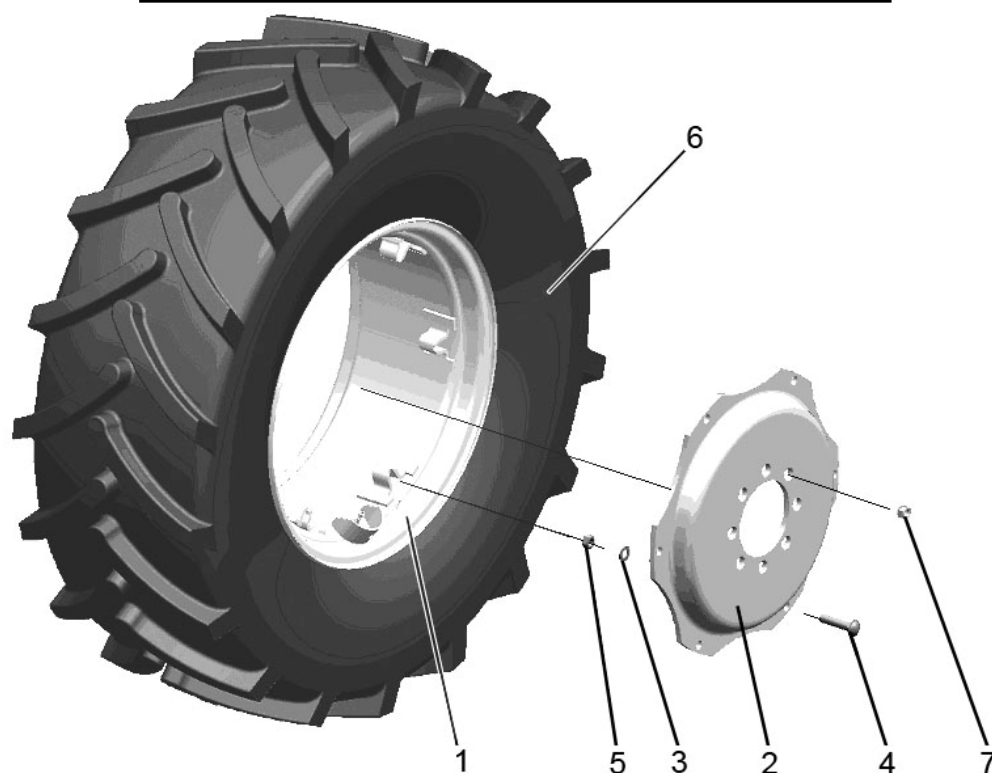


Fig.31.1. Front driving wheels



Fig.31.2. Front driving wheels

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

Fig.No	Pos.No	Designation	Q-ty	Name
31.1		822-3101010	2	Wheel 360/70R24 (tyre 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 GOST 5915-70	12	Nut
	6		2	Tyre 360/70R24
	7	40-3103017-01	16	Nut

Fig.No	Pos.No	Designation	Q-ty	Name
31.2		822-3101015	2	Wheel 11.2R24* (tyre assembly) (1,2)
	1	8133.3101012	2	Wheel W10x24
	2		2	Tyre 11.2R24
	3	40-3103017-01	16	Nut

* additional configuration

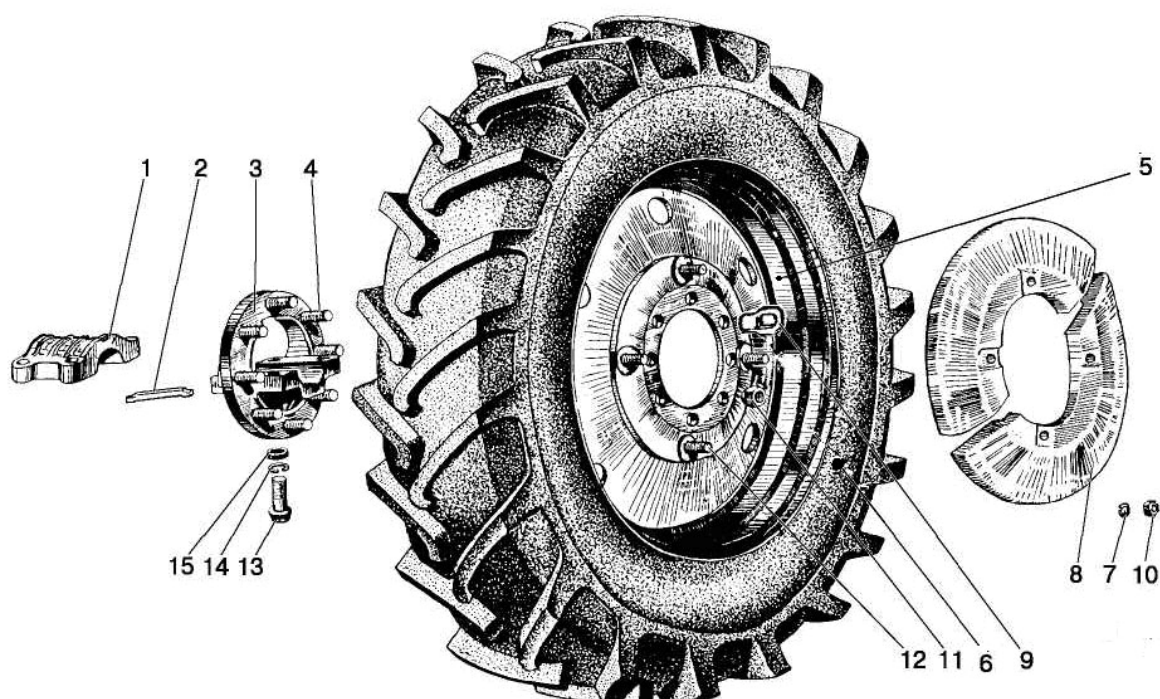


Fig.31.3. Rear driving wheels. Rear wheels hubs

Group 31. Wheels and hubs
Subgroup 3104. Rear wheels hubs
Subgroup 3107. Rear wheels

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
31.3		50-3104010-A1	2	Hub (1,2,3,4)
	1	70-3104025	2	Insert
	2	50-3104016	2	Key
	3	50-3104015	2	Hub
	4	40-3104021	16	Bolt
		80-3107010-01 or 80-3107010-03	2	Wheel 18.4R34 (tyre assembly) (5,6) Wheel 18.4R34 (tyre assembly, visor, ballast weights) (5,6)
	5	C885.3107012	2	Wheel DW16x34
	6		2	Tyre 18.4R34 (mod. Φ-11)
		C70-3100220-A or C70-3100220-A-01	2	Wheel 15.5R38 (tyre assembly) (5, 6) Wheel 15.5R38 (tyre assembly, visor, ballast weights) (5,6)
	5	C70-3107012	2	Wheel DW14Lx38 (disk, rim, protective visor)
	6		2	Tyre 15.5R38 GOST 7463-2003
		85-3107020	2	Wheel (tyre assembly) (5, 6)
	5	50-3107050	2	Wheel DW8x42 (disk and rim)
	6		2	Tyre 11.2R42
		50-3100030	2	Wheel 9.5-42 (tyre assembly) (5, 6)
	5	50-3107050	2	Wheel DW8x42 (disk and rim)
	6		2	Tyre 9.5-42
	7	16 OT OST 37.001.115-75	8	Washer
	8	50-3107018-A	4	Weight
	9	70-3104019	2	Special nut
	10	M16-6H.6.019 GOST 5915-70	8	Nut
	11	36-3104019	14	Nut
	12	7-34-108	4	Bolt
	13	50-3104028	8	Bolt
	14	27 Л OST 37.001.115-75	8	Washer
	15	50-3104029	8	Spherical washer

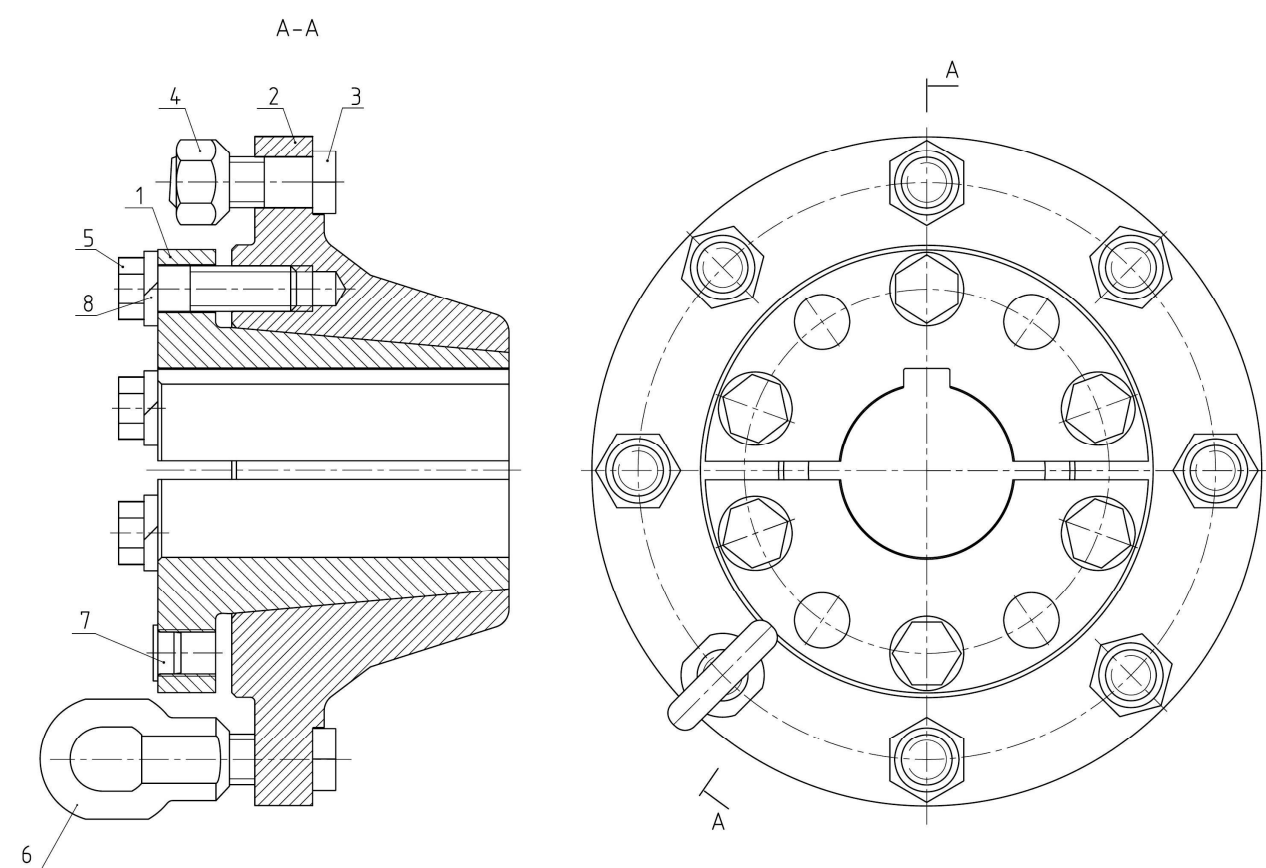


Fig.31.4. Wheel hub

Group 31. Wheels and hubs
Subgroup 3104. Rear wheels hubs

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
31.4		1075-3104010	2	Wheel hub (1-8)
	1	1075-3104012	1	Insert
	2	1220-3104011	1	Hub housing
	3	40-3104021	8	Bolt
	4	36-3104019	7	Nut
	5	70-4605036	6	Bolt
	6	70-3101019	1	Special nut
	7	80-3405038-03	4	Plug
	8	20 OT OST 37.001.115-75	6	Washer

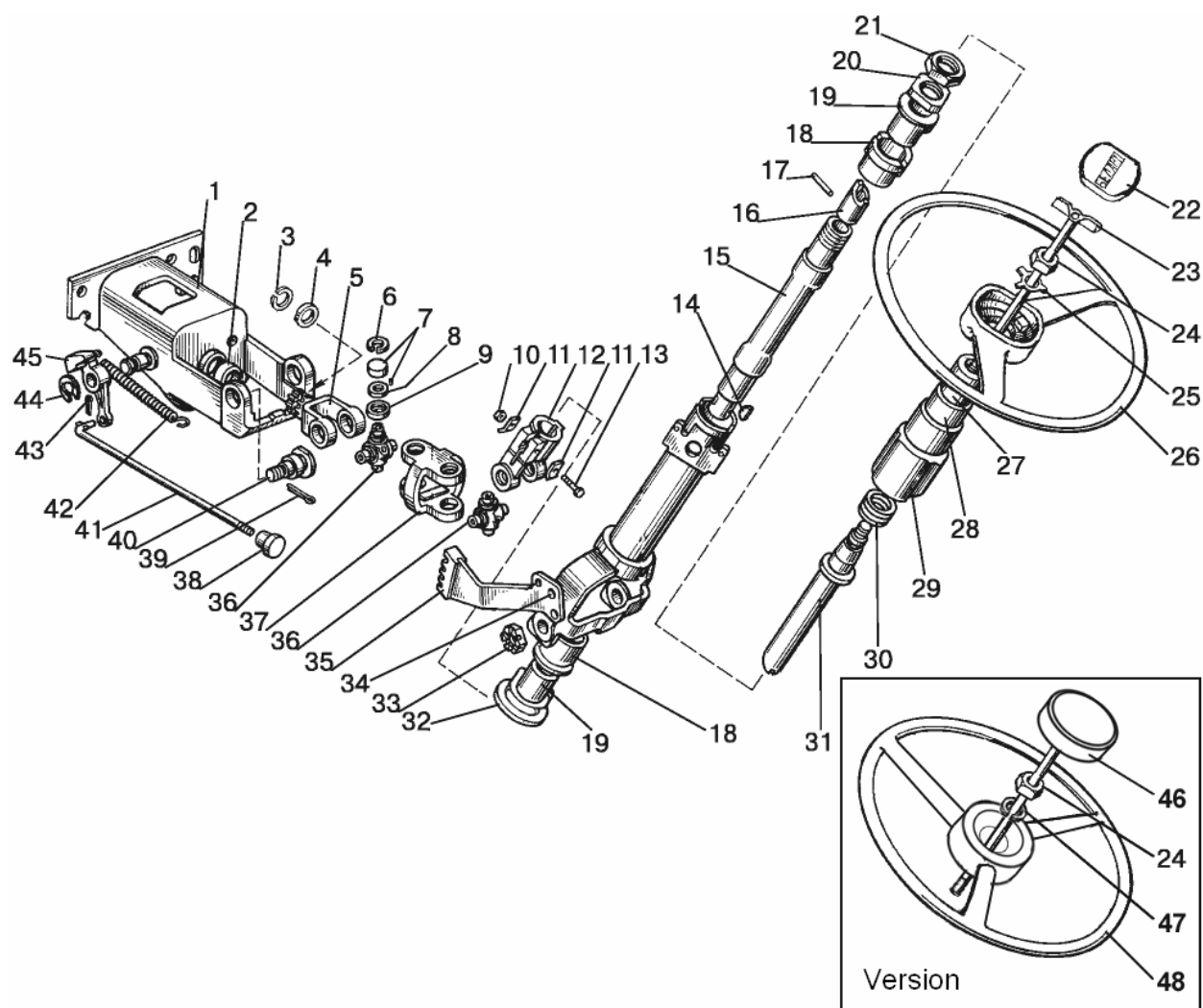


Fig. 34.1. Steering column

**Group 34. Steering control
Subgroup 3401. Steering column**

Fig.No	Pos.No	Designation	Q-ty	Name
34.1		85-3401010	1	Steering column (1-21, 32-37, 39, 40, 42, 44, 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 GOST 13940-86	1	Ring
	4	80-3401019	1	Washer
	5	85-3401156-B	1	Fork
	6	C19 GOST 13943-86	8	Ring
	7	904700 YC17 TU 37.006.065-90	8	Bearing
	8	50-3401064	8	Oil-seal
	9	50-3401063	8	Yoke
	10	M10-6H.04.019 GOST 5916-70	1	Nut
	11	80-3401013	2	Washer
	12	50-3401061-A	1	Fork
	13	M10-6gx45.88.35.019 GOST 7795-70	1	Bolt
	14	CШ-510	1	Key 5x10
	15	70-3401055	1	Intermediate shaft
	16	70-3401054-B	1	Tail
	17	ШЛК 8x36	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	M16x1,5-6H.6.019 GOST 5915-70	1	Nut
	25	50-3401091	1	Washer
	26	80-3402015	1	Steering wheel
	27	80-3709025	1	Bushing
	28	80-3709026-B	1	Bushing
	29	80-3709024	1	Casing
	30	50-4608057	1	Spring
	31	85-3401175	1	Shaft
	32	600-3401012	1	Washer
	33	70-3003032	2	Nut
	34	8x28.01.019 GOST 10299-80	2	Rivet
	35	600-3401160	1	Quadrant
	36	50-3401062	2	Cross bar
	37	85-3401067	1	Fork
	38	70-3709012-A	1	Handle
	39	4x25.019 GOST 397-79	2	Forelock
	40	85-3401011	2	Screw
	41	80-3401001	1	Rod
	42	50-1310158-B	1	Spring
	43	1,6x12.019 GOST 397-79	1	Forelock
	44	C18 GOST 13940-86	1	Ring
	45	85-3401014	1	Detent
	46	822-3401140-A1	1	Clamp
	47	16 OT OST 37.001.115-75	1	Washer
	48	70-3402015-A	1	Steering wheel

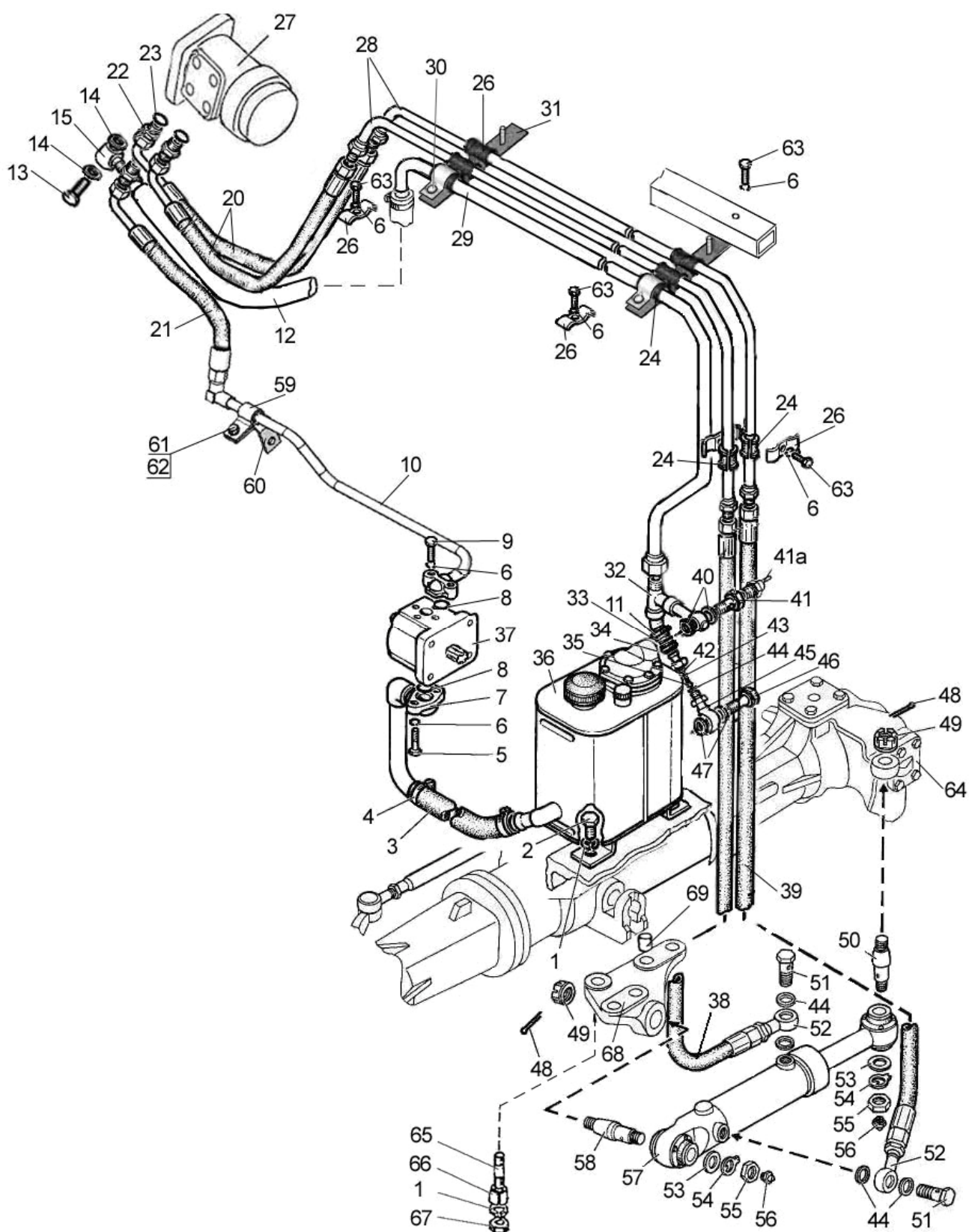


Fig.34.2 Steering control 1025-3400010-01

Group 34. Steering control
Subgroup 3407. Steering control 1025-3400010-01

Fig.No	Pos.No	Designation	Q-ty	Name
34.2	1	16 OT OST 37.001.115-75	5	Washer
	2	M16-6gx25.88.35.019 GOST 7796-70	2	Bolt
	3	1221-3407012-03	1	Hose
	4	"NORMA" TORRO 25-40/9-C6W	2	Clamp
	5	M8-6gx45.88.35.019 GOST 7795-70	2	Bolt
	6	8T OST 37.001.115-75	14	Washer
	7	1025-3407030	1	Oil pipeline
	8	017-022-30-1-4 GOST 18829-73/9833-73	2	Ring
	9	M8-6gx40.88.35.019 GOST 7796-70	9	Bolt
	10	1025-3407020-B	1	Oil pipeline
	11	"NORMA" TORRO 16-25/9-C6W	4	Clamp
	12	952-3407014-06	1	Hose
	13	85-3407105-03	1	Bolt
	14	PM1/2	2	Washer
	15	922-3407080	1	Oil pipeline
	20	680-4607140-11	2	High pressure hose
	21	1522B-3407100-07	1	High pressure hose
	22	1522-3407016	3	Adapter
	23	025-029-25-2-2 GOST 18829-73/9833-73	3	Ring
	24	70-3506027	8	Bushing
	26	703407146	3	Plate
	27	OSPC 160-ON150G0030 or LAGC 160-10/200-140 M01-100S or SUB 160-140.200-1	1	Dosing pump
	28	1025-3407040	2	Oil pipeline
	29	1025-3407060	1	Oil pipeline
	30	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	31	1025-3407013	2	Bracket
	32	923-3407050	1	Three-way pipe
	33	600-3407083	1	Hose
	34	Φ80-3407111-01	1	Valve cover
	35	12,0-60 GOST 3722-81	1	Ball
	36	923-3407100-01	1	Tank
	37	НШ14Д-3П or НШ14Г-3П or 20A14x126	1	Gear-type pump
	38	952-3407100-02	1	High pressure hose
	39	952-3407100-04	1	High pressure hose
	40	PM1/2	2	Washer
	41	1221-3407140-01	1	Valve
	41a	ДАДМ-03	1	Emergency oil pressure sensor
	42	Φ80-3407113	1	Guide
	43	80-3407221	1	Spring
	44	PM1/2	5	Washer
	45	822-3407095	1	Valve body
	46	40-4607032	1	Bolt
	47	PM1/2	2	Washer

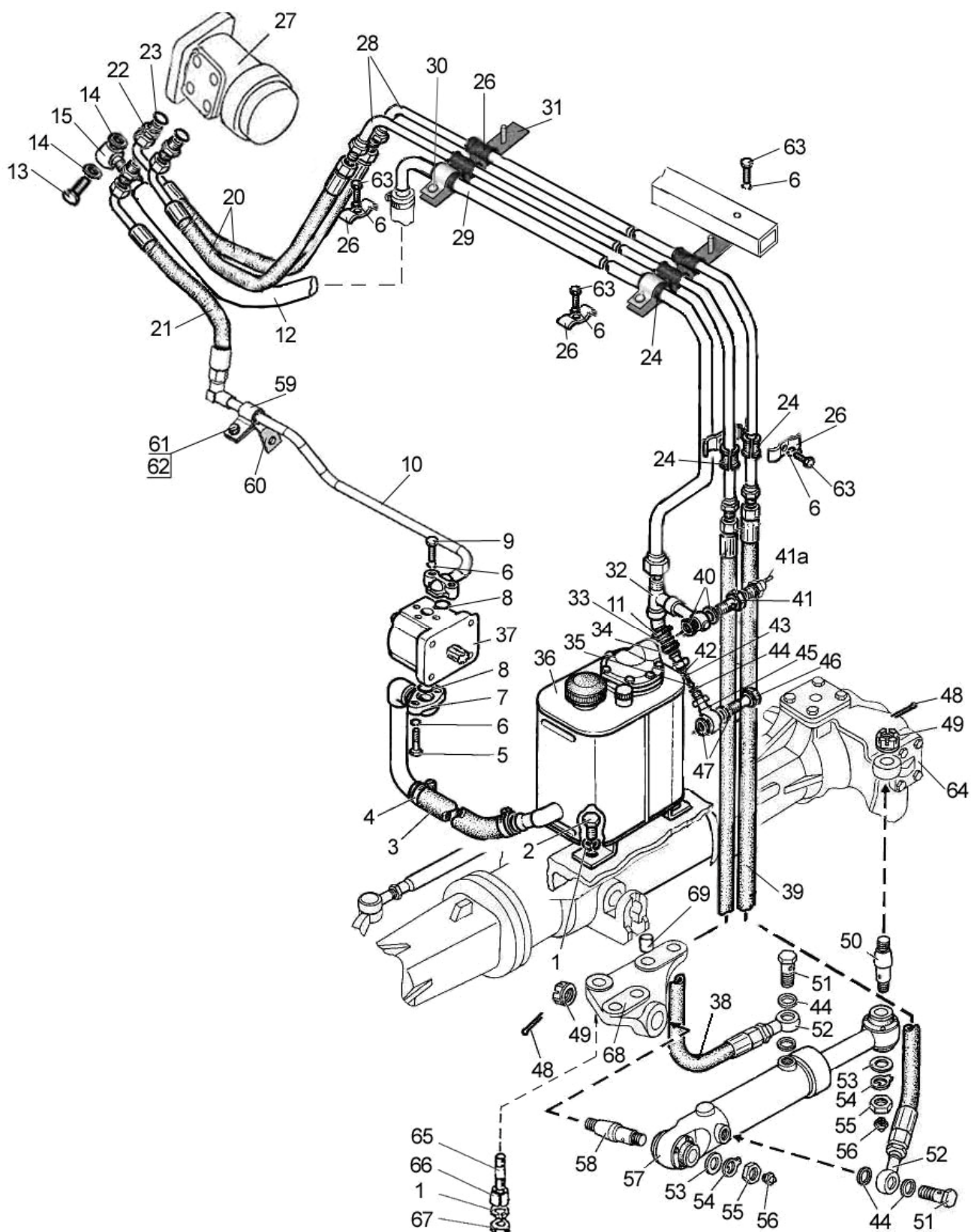


Fig.34.2 Steering control 1025-3400010-01

Group 34. Steering control
Subgroup 3407. Steering control 1025-3400010-01

Fig.No	Pos.No	Designation	Q-ty	Name
34.2	48	4x36.019 GOST 397-79	2	Forelock
	49	102-3405113	2	Pin nut
	50	102-3405112-01	1	Pin
	51	Φ80-3407301	2	Bolt
	52	2022-3407202	2	Adapter
	53	C 20.01.019 GOST 11371-78	2	Washer
	54	Φ80-3405103	2	Lock washer
	55	M20x1,5-6H.04.019 GOST 15522-70	2	Nut
	56	1.1.Л9.xp GOST 19853-74	2	Oiler
	57	Л63-3405115-A-02	1	Hydraulic cylinder
	58	102-3405111	1	Pin
	59	50-4607041	1	Bracket
	60	85-3407102	1	Bracket
	61	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	62	10 OT OST 37.001.115-75	1	Washer
	63	M8-6gx30.88.35.019 GOST 7796-70	1	Bolt
	64	1021-2308076	1	Bracket
	65	1520-2308079	3	Stud
	66	1520-2308077	3	Bushing
	67	M16-6H.6.019 GOST 5915-70	3	Nut
	68	822-2301023-Б-01	1	Cylinder bracket
	69	Д01-015	2	Pin

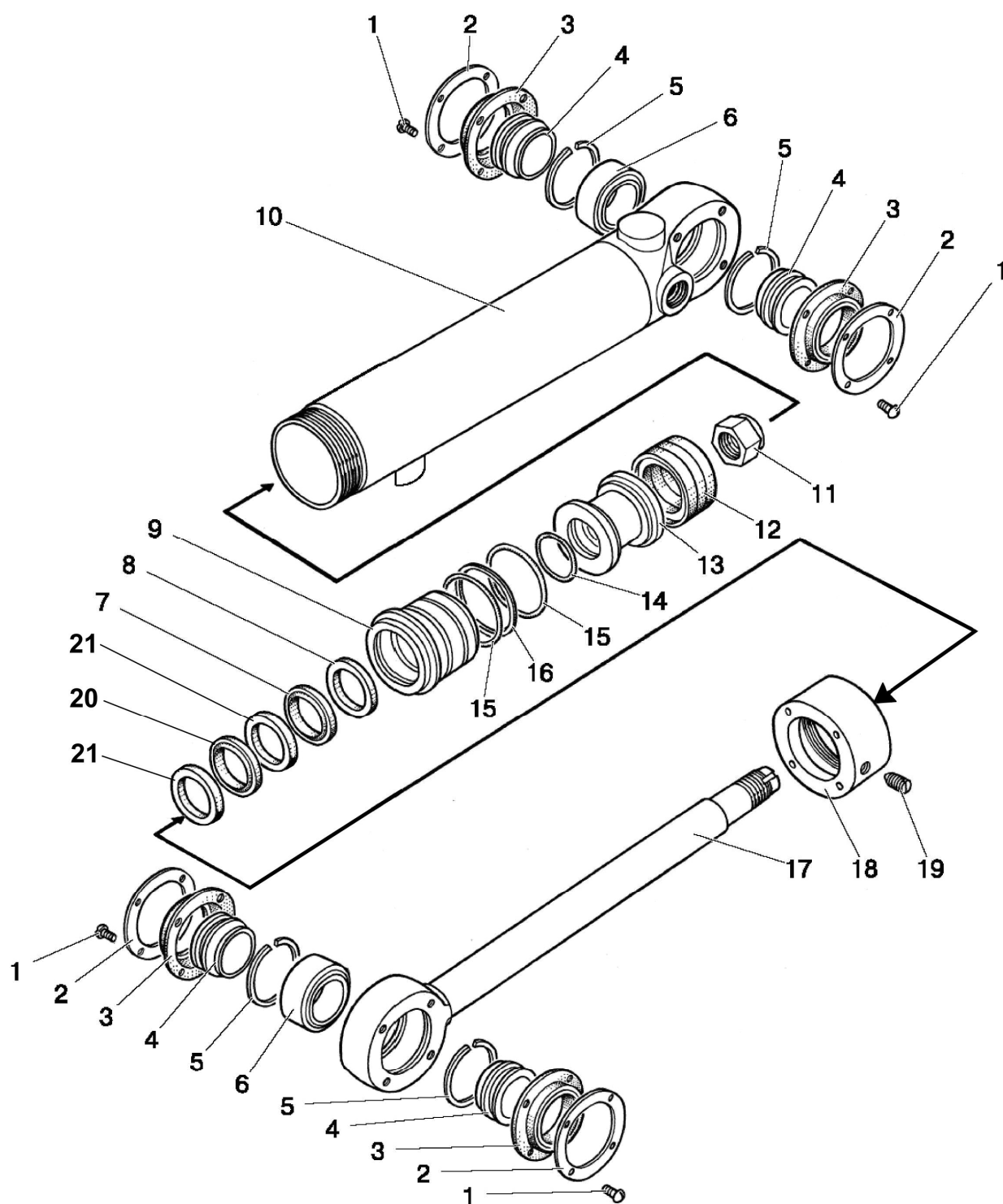


Fig. 34.3. Hydraulic cylinder L63 (63x30-200)

Group 34. Steering control
Subgroup 3405. Hydraulic cylinder L63 (63x30-200)

Fig.No	Pos.No	Designation	Q-ty	Name
34.3		L63-3405115-A-02	1	Hydraulic cylinder assembly
	1	B.M5-6gx10.58.019 GOST 17473-80	16	Screw
	2	82.6-4713337	4	Fit ring
	3	L63-3405134	4	Casing
	4	L63-3405127	4	Bushing
	5	C47 GOST 13941-86	4	Ring
	6	ШЦ-30 GOST 3635-78	2	Bearing
	7	24004799	1	Push rod collar PU6 30-38,6-6,5
	8	24236861	1	Push rod seal T20 30-38-5,7
	9	L63-3405118-B	1	Front cover
	10	L63-3405120-02	1	Housing
	11	L50-3405222	1	Piston nut
	12	24251803	1	Piston seal L43 63-47-20,5
	13	L63-3405123	1	Piston
	14	030-034-25-1-4 GOST 18829-73/9833-73	1	Ring
	15	055-063-46-1-4 GOST 18829-73/9833-73	2	Ring
	16	L63-3405128 or 82.6-4713327	1	Backing ring
	17	L63-3405121	1	Push rod
	18	L63-3405124	1	Captive nut
	19	A.M8-6gx10.45H.40X.05 GOST 8878-93	1	Screw
	20	24223129	1	Push rod seal OMS-MR 30-37,3-3
	21	24226046	2	Push rod guide SB 30-33-5,5

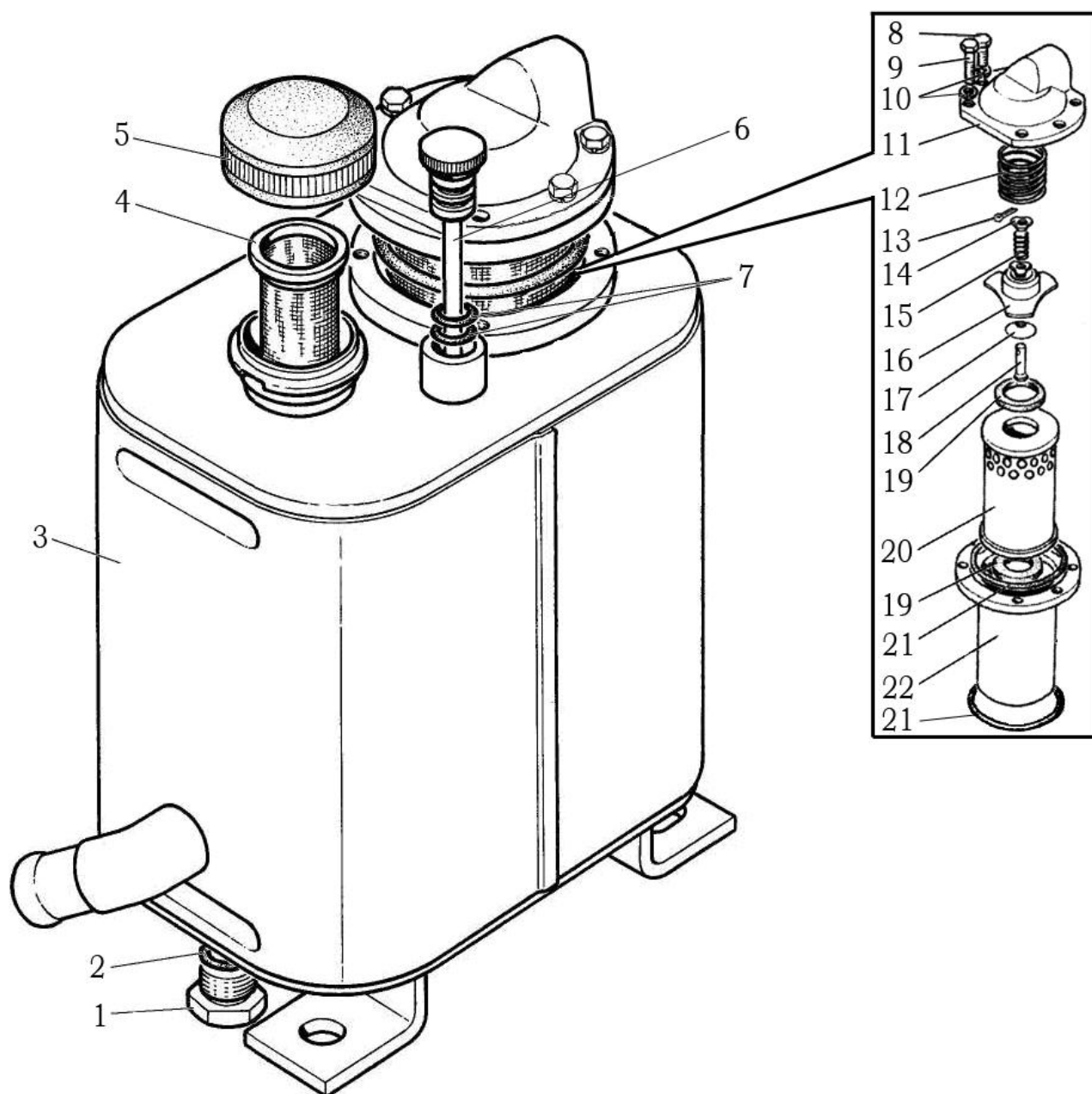


Fig.34.4. Tank

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

Fig.No	Pos.No	Designation	Q-ty	Name
34.4		923-3407100-01	1	Tank (1-21)
	1	50-4608027-B	1	Plug
	2	017-021-25-2-2 GOST 18829-73/9833-73	1	Ring
	3	923-3407120-01	1	Tank
	4	A61-C06-A3	1	Filter
	5	240-3707200	1	Plug
	6	082-4608130	1	Oil meter
	7	011-015-25-2-4 GOST 18829-73/9833-73	2	Ring
	8	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	9	M6-6gx25.88.35.019 GOST 7798-70	4	Bolt
	10	6T OST 37.001.115-75	4	Washer
	11	220-4608051-01	1	Cover
	12	50-4608057	1	Spring
	13	1,6x12.019 GOST 397-79	1	Forelock
	14	320-4608081	2	Thrust washer
	15	80-3405044	1	Spring
	16	320-4608085	1	Valve body
	17	320-4608083	1	Spherical valve
	18	320-4608082	1	Stem
	19	80-4608024	2	Ring
	20	601T-1-06	1	Filter element
	21	075-080-30-1-4 GOST 18829-73/9833-73	2	Ring
	22	220-4608060	1	Cage

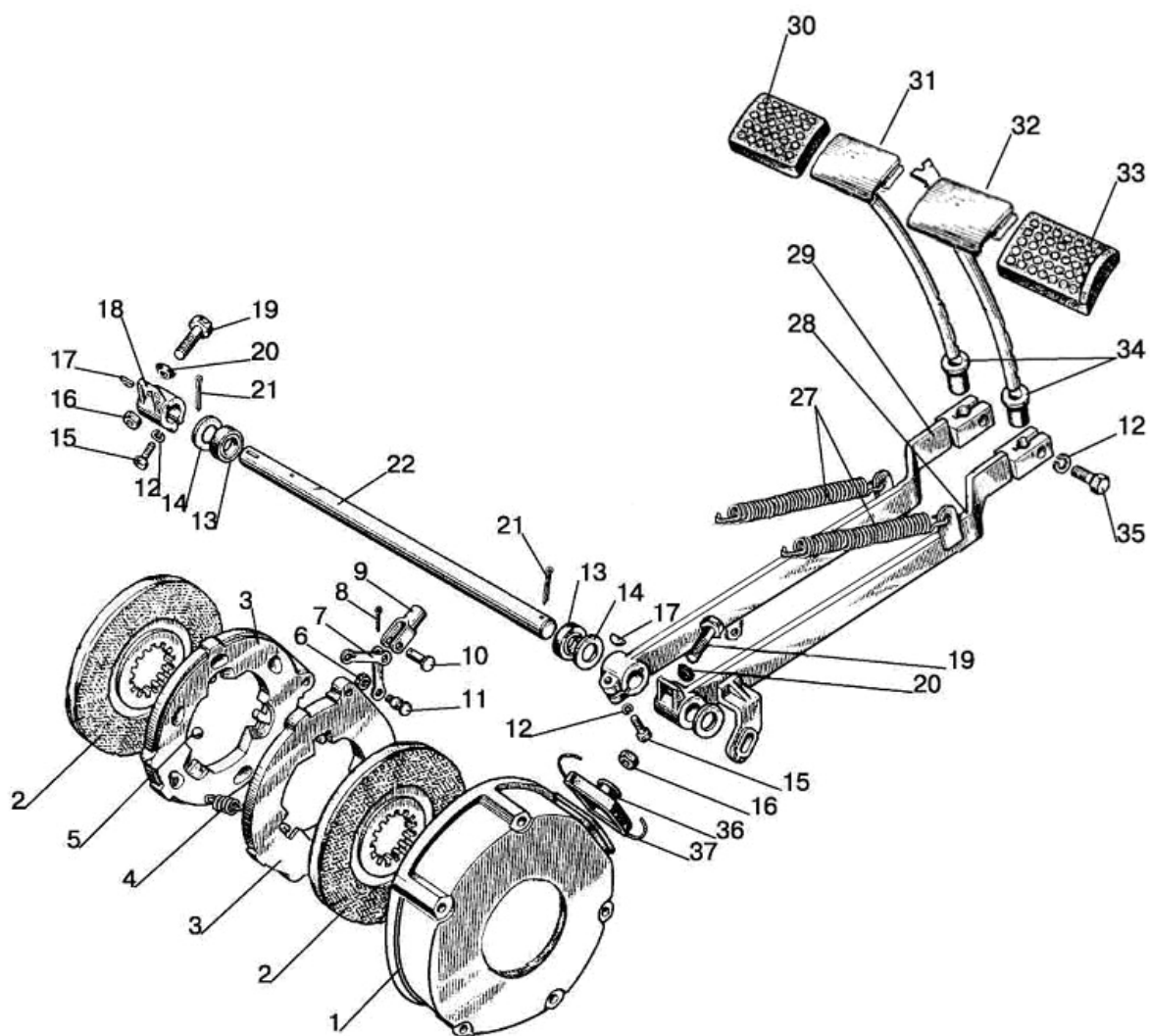


Fig. 35.1. Brakes. Dry brakes control

Group 35. Brakes
Subgroup 3502, 3503. Brakes. Dry brakes control

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.1		85-3502010	2	Brake (1-11,36,37)
		85-3502030	2	Pressure disks (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	85-3502035	2	Casing
	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 GOST 3722-81	10	Ball
	6	M8-6H.6.019 GOST 5915-70	4	Nut
	7	85-3502196	4	Rod
	8	3,2x18.019 GOST 397-79	2	Forelock
	9	50-3502203	2	Fork
	10	12x32 OST 37.001.163-75	2	Pin
	11	50-3502198	4	Pin
	12	12 OT OST 37.001.115-75	4	Washer
	13	2.2-25x42-1	2	Collar
	14	50-3503071	3	Washer
	15	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	16	M12x1,25-6H.04.019 GOST 5916-70	2	Nut
	17	СШ-611	2	Key 6x11
	18	70-3503017-A	1	Lever
	19	70-3503019	2	Bolt
	20	70-3503018	2	Washer
	21	5x36.019 GOST 397-79	2	Forelock
	22	50-3503015	1	Shaft
	27	50-1605152	2	Spring
	28	80-3503110	1	Lever
	29	80-3503120	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	M12-6gx30.88.35.019 GOST 7796-70	2	Bolt
	36	50-3502202	2	Casing
	37	1,6-O-C GOST 3282-74	2	Wire

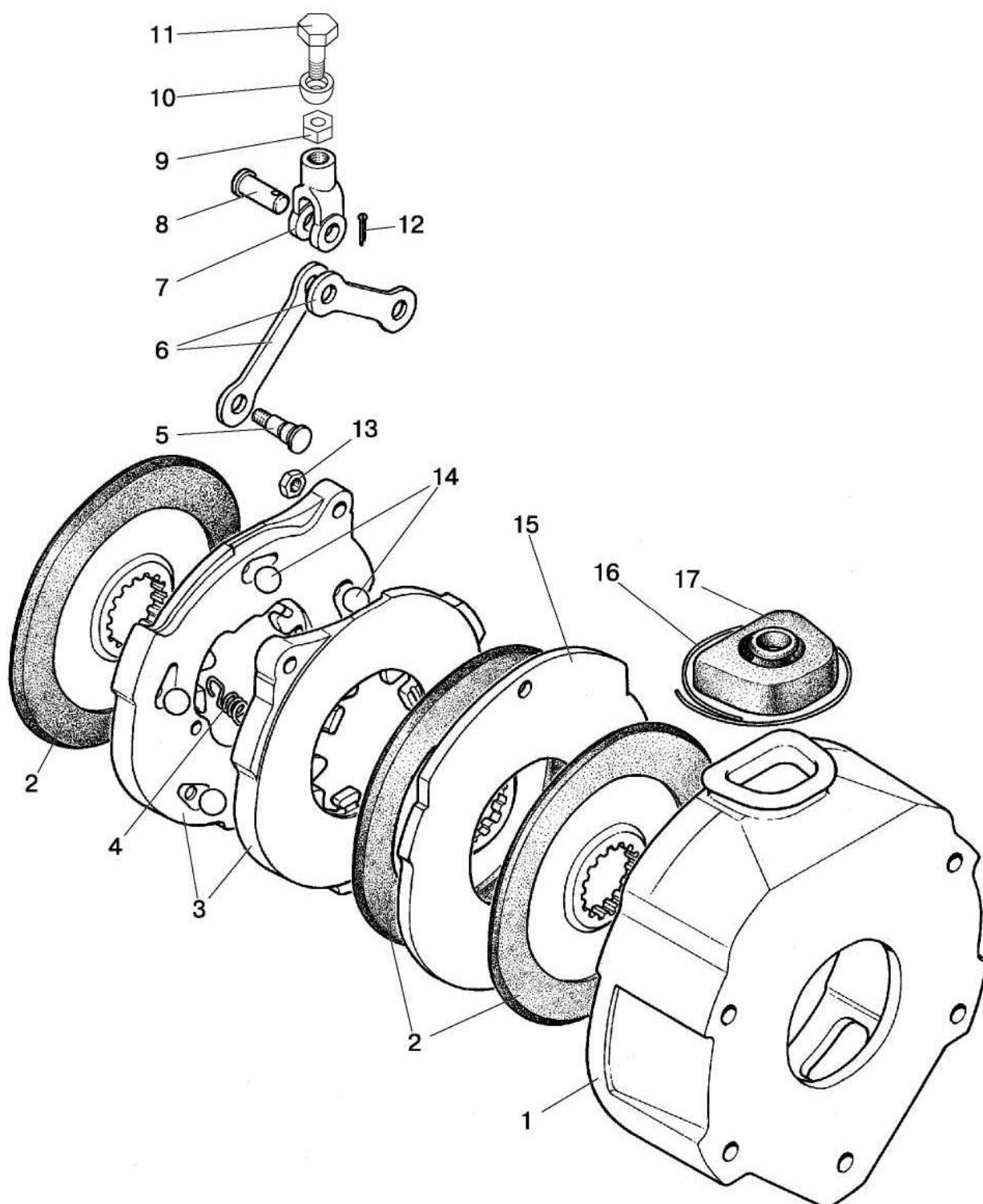


Fig. 35.2. Brakes (version)

Group 35. Brakes
Subgroup 3502. Brakes (version)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.2		1522-3502010	2	Brake (1-8, 12-17)
		70-3503080	2	Brake rod (9,10,11)
		85-3502030	2	Pressure disk (3-8,12-14)
	1	1522-3502035	2	Casing
	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	Fork
	8	12x32 OST 37.001.163-75	2	Pin
	9	M12x1,25-6H.04.019 GOST 5916-70	2	Nut
	10	70-3503018	2	Washer
	11	70-3503019	2	Bolt
	12	3,2x18.019 GOST 397-79	2	Forelock
	13	M8-6H.6.019 GOST 5915-70	4	Nut
	14	22,225-100 GOST 3722-81	10	Ball
	15	1522-3502037-B	2	Disk
	16	1,6-O-C GOST 3282-74 300 mm	2	Wire
	17	50-3502202	2	Casing

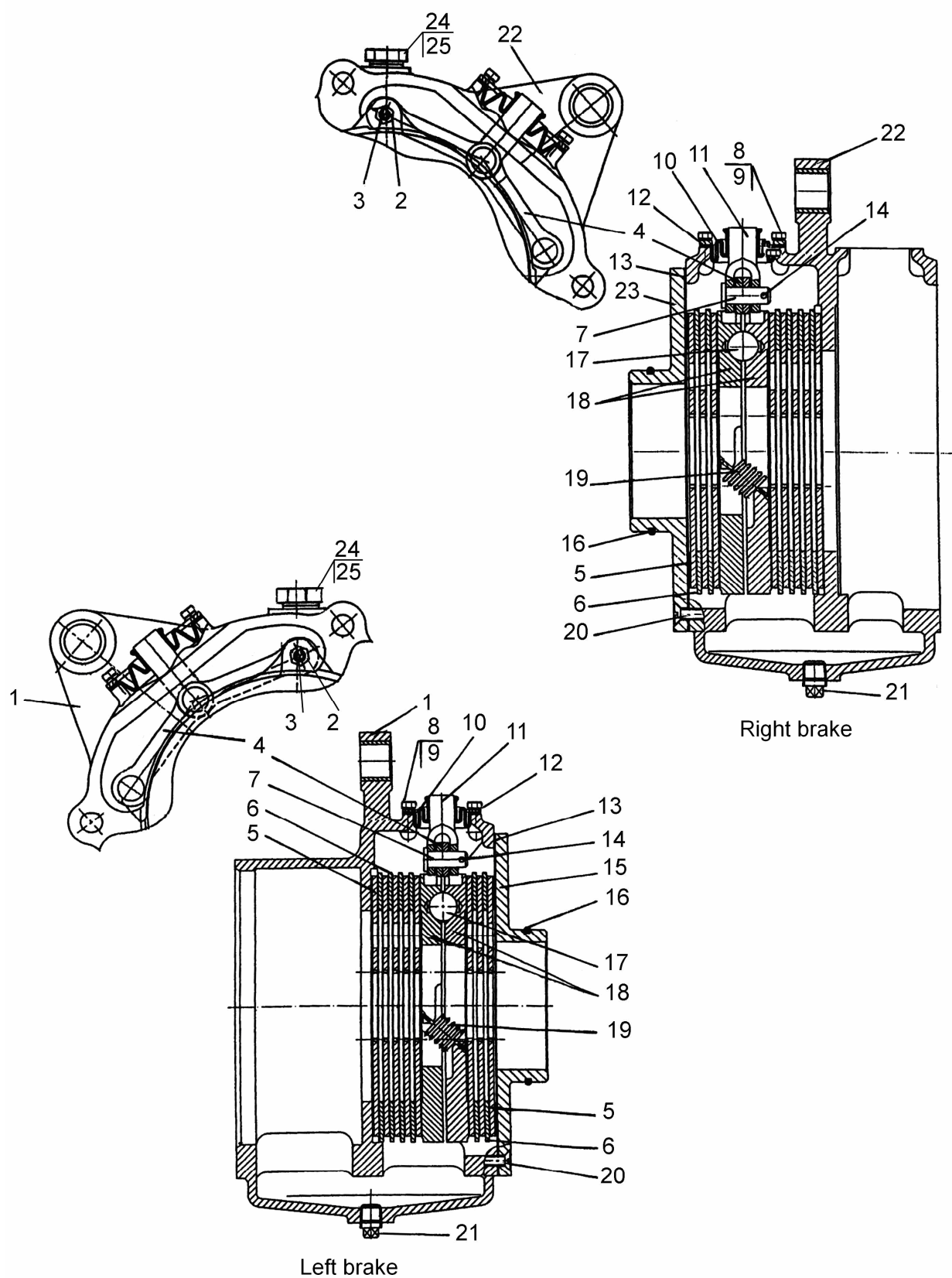


Fig.35.3. Wet brakes (left/right)

Group 35. Brakes
Subgroup 3502. Wet brakes (left/right)

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
35.3		1221M-3502010	1	Right brake (2-14,16-20,22,23)
		1221M-3502020	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	M8-6H.6.019 GOST 5915-70	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=3,0mm)
		80M-3502037-01	*	Intermediate disk (S=3,2mm)
		80M-3502037-02	*	Intermediate disk (S=3,4mm)
		80M-3502037-03	*	Intermediate disk (S=3,6mm)
		80M-3502037-04	*	Intermediate disk (S=3,8mm)
		80M-3502037-05	*	Intermediate disk (S=4,0mm)
		80M-3502037-06	*	Intermediate disk (S=4,2mm)
		80M-3502037-07	*	Intermediate disk (S=4,4mm)
	7	12x32 OST 37.001.163-75	2	Pin
	8	M6-6gx12.88.35.019 GOST 7798-70	8	Bolt
	9	6T OST 37.001.115-75	8	Washer
	10	80M-3502202	2	Casing
	11	50-3502203	2	Fork
	12	80M-3502204	2	Plate
	13	1221M-3502051	2	Gasket
	14	3,2x18.019 GOST 397-79	2	Forelock
	15	85M-2407059	1	Cage cover (left)
	16	LJ-110-1414045	2	Ring
	17	22,225-100 GOST 3722-81	10	Ball
	18	85-3502036-01	4	Pressure disk
	19	77.38.163	6	Spring
	20	B.M8-6gx25.58.019 GOST 17475-80	6	Screw
	21	ПК КГ ³ / ₈ "	4	Plug
	22	1221M-3502035	1	Housing
	23	85M-2407059-01	1	Cage cover (right)
	24	1221-1802091	2	Plug
	25	Д18-055-A	2	O-ring

* Selected during the installation for required gap

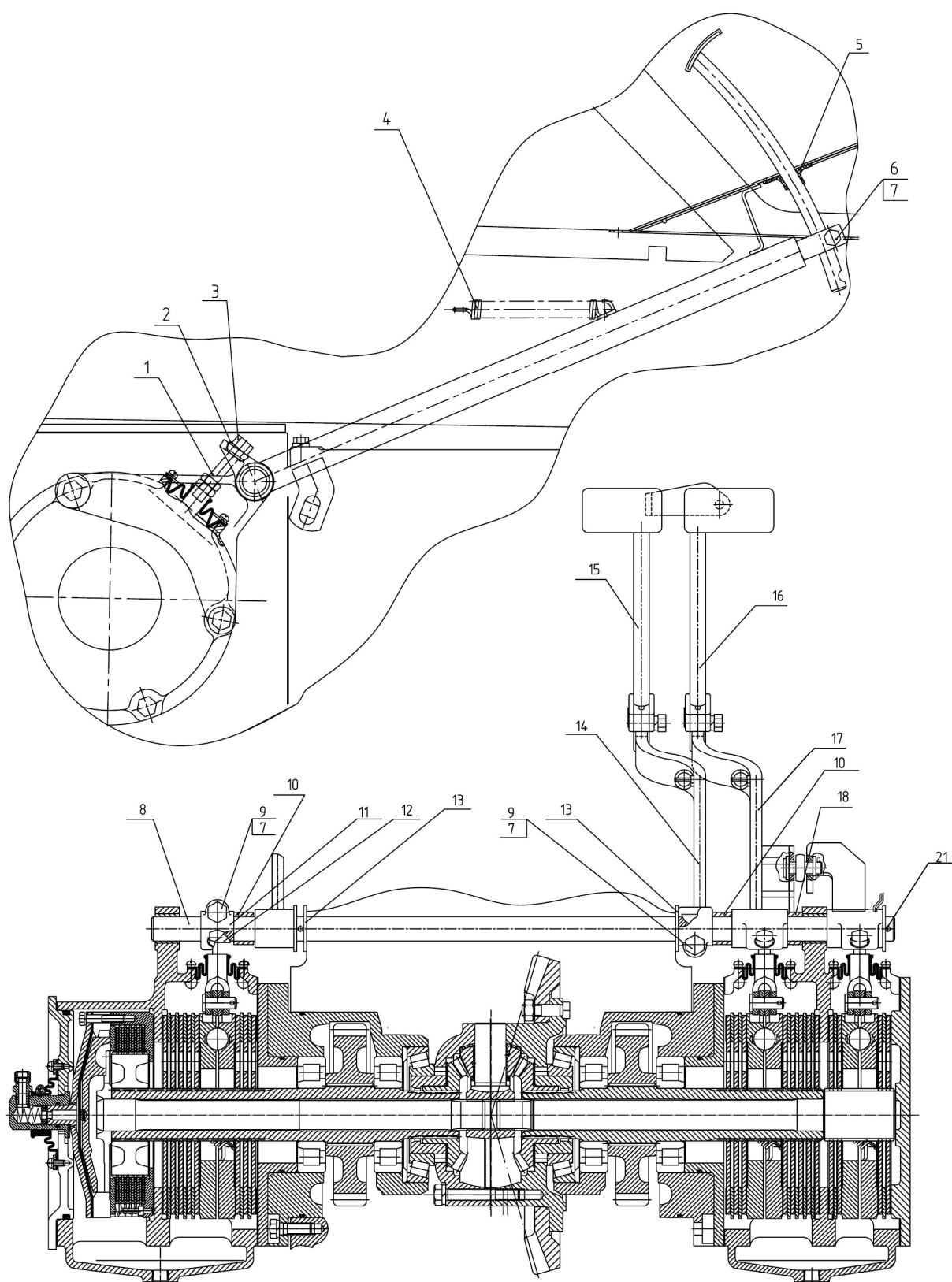


Fig. 35.4. Brakes. Wet brakes control

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

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

* During the installation of PTO shaft hydraulic control

** During the installation of PTO shaft mechanical control

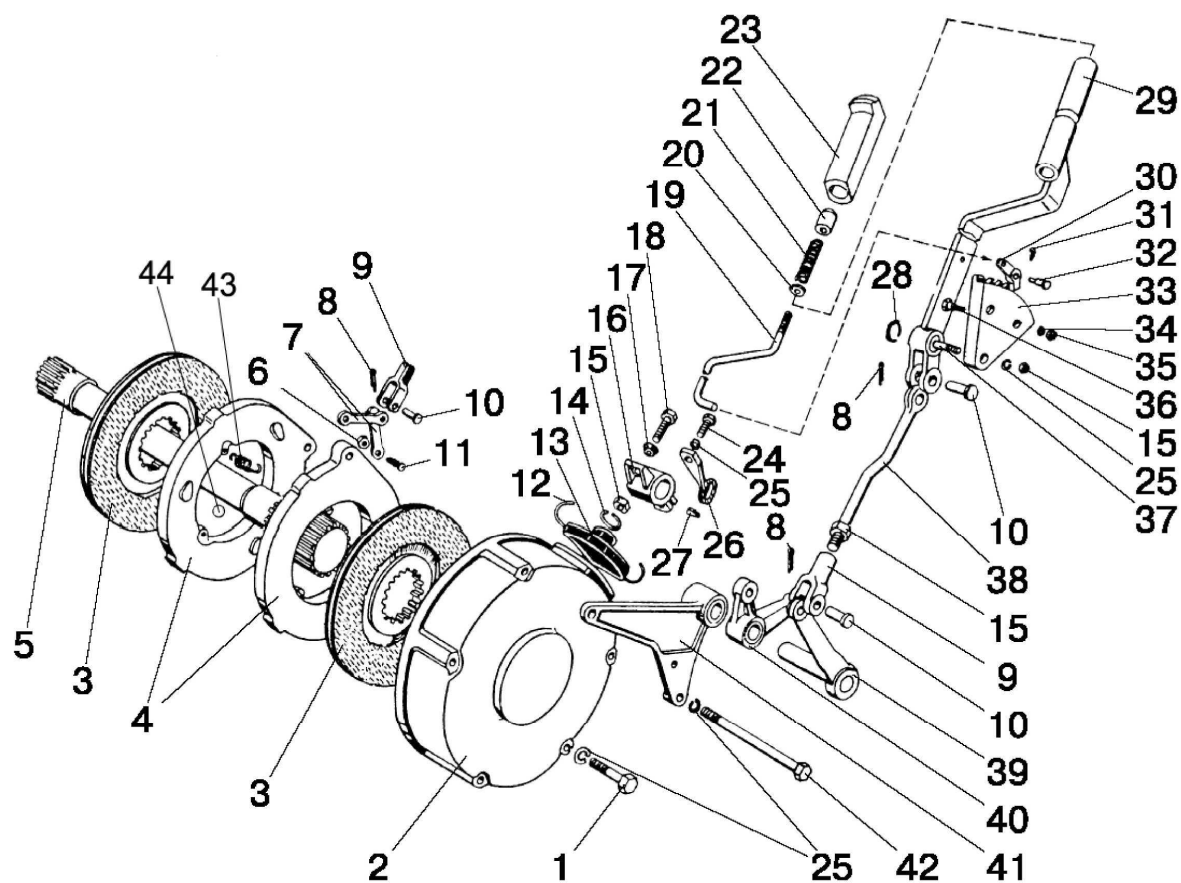


Fig. 35.5. Parking brake. Parking brake control

Group 35. Brakes

Subgroup 3504, 3507. Parking and emergency brake. Parking and emergency brake control

Fig.No	Pos.No	Designation	Q-ty	Name
35.5		50-3502010	1	Brake (2-4, 6-14, 43, 44)
		50-3502030-A	1	Pressure disk (4, 6-11, 43, 44)
		70-3503080	1	Brake rod (15, 17, 18)
		85-3507120-01	1	Lever (19-23, 29-32)
		900-3507140* 80-3507240**	1	Rod (9, 15, 38)
		85-3507150-02	1	Bracket (16, 24-27, 39-41)
	1	M12-6gx180.58.019 GOST 7795-70* M12-6gx200.58.019 GOST 7795-70**	3	Bolt
	2	50-3502035	1	Casing
	3	70-3502040-01 or 70-3502040-04	2	Disk
	4	50-3502036-B	2	Pressure disk
	5	70-3504055* 70-3504055-01**	1	Shaft
	6	M8-6H.6.019 GOST 5915-70	2	Nut
	7	50-3502196	2	Rod
	8	3,2x18.019 GOST 397-79	3	Forelock
	9	50-3502203	2	Fork
	10	12x32 OST 37.001.163-75	3	Pin
	11	50-3502198	2	Pin
	12	1,6-O-C GOST 3282-74	1	Wire 300 mm
	13	50-3502202	1	Casing
	14	36-1702358	1	Spring ring
	15	M12x1,25-6H.6.019 GOST 5915-70	3	Nut
	16	70-3503017-A	1	Lever
	17	70-3503018	1	Washer
	18	70-3503019	1	Bolt
	19	70-3507122-01	1	Rod
	20	C 5.01.019 GOST 11371-78	1	Washer
	21	55-17-27	1	Spring
	22	A13.19.002	1	Button
	23	A13.19.001-A	1	Handle
	24	M12-6gx40.88.35.019 GOST 7796-70	1	Bolt
	25	12 OT OST 37.001.115-75	7	Washer
	26	70-3514107* 80-3514107**	1	Lever
	27	CШ-611	1	Key
	28	C15 GOST 13940-86	1	Ring
	29	85-3507130-01	1	Lever
	30	50-1606026	1	Latch
	31	2x12.019 GOST 397-79	1	Forelock
	32	70-3507024	1	Axis
	33	70-3507021 -Б	1	Quadrant
	34	10 OT OST 37.001.115-75	2	Washer
	35	M10-6H.6.019 GOST 5915-70	2	Nut
	36	M10-6gx35.88.35.019 GOST 7796-70	2	Bolt
	37	70-3507132-B-01	1	Axis
	38	900-3507141* 80-3507241**	1	Rod
	39	85-3507060	1	Lever

* During the installation of double-disk brakes

** During the installation of tripple-disk brakes

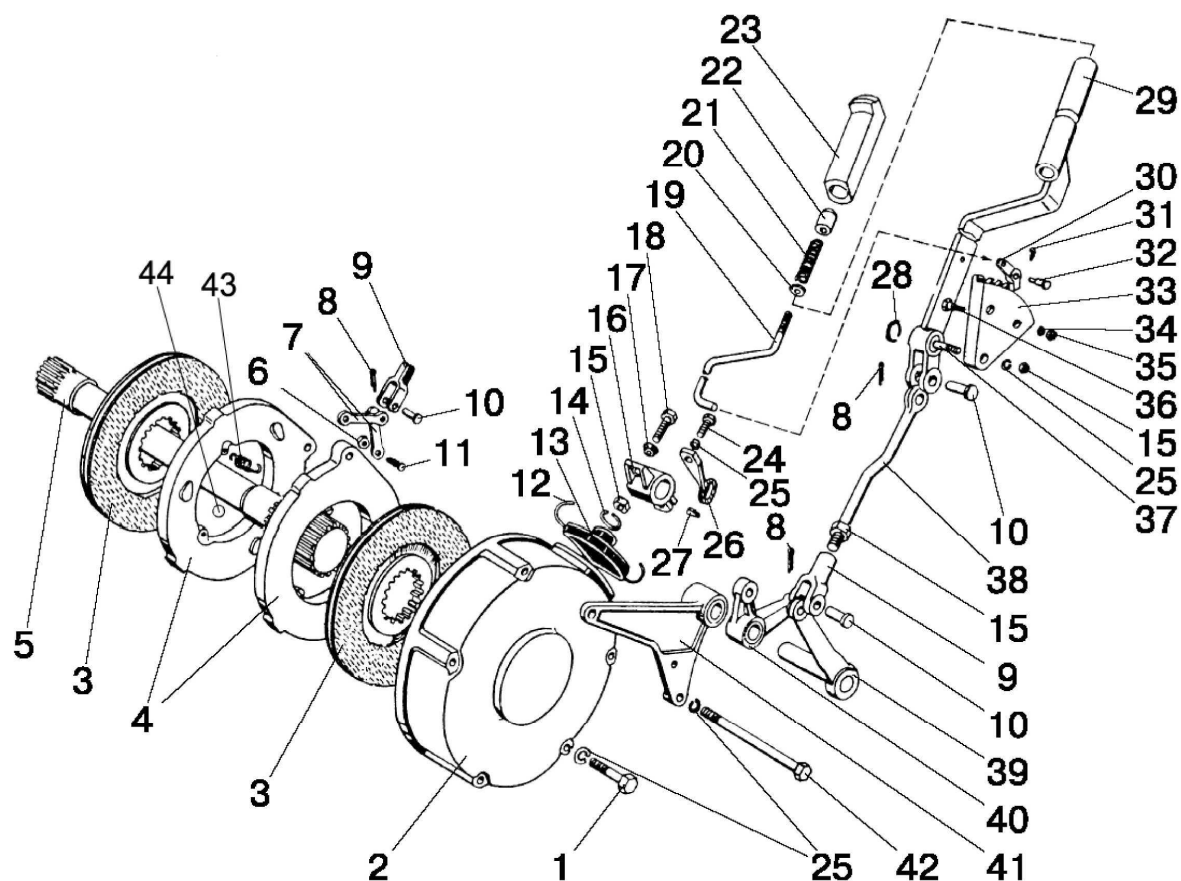


Fig. 35.5. Parking brake. Parking brake control

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

Fig.No	Pos.No	Designation	Q-ty	Name
35.5	40	80-4216050 ^{*(***)}	1	Hub
		80-4216050-Б ^{**(***)}		
		1221-3507072 ^{****}	1	Bushing
	41	70-3507070 ^{***}	1	Bracket
		70-3507070-01 ^{****}		
	42	M12-6gx200.58.019 GOST 7795-70* 1522-2409034-03 ^{**}	2	Bolt
	43	77.38.163	3	Spring
	44	22,225-100 GOST 3722-81	3	Ball

* During the installation of double-disk brakes

** During the installation of tripple-disk brakes

*** PTO shaft mechanical control

**** PTO shaft hydraulic control

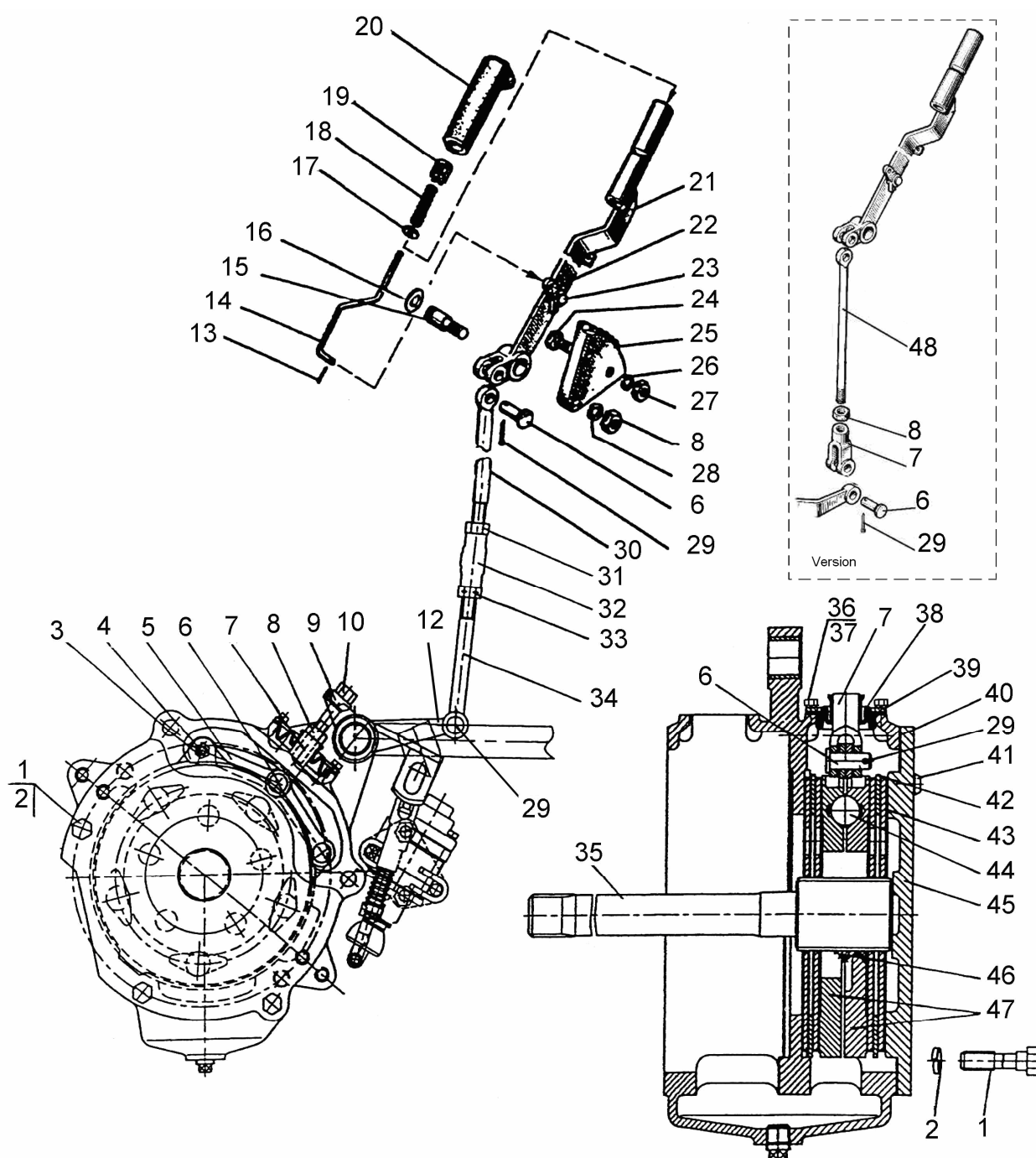


Fig.35.6. Parking brake. Parking brake control

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 No	Q-ty	Name
35.6		952M-3507140**	1	Rod (7, 8, 48)
		85-3502030-01	1	Pressure disks (3-7, 29, 44, 46, 47)
		952M-3507040*	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 OST 37.001.115-75	5	Washer
	3	M8-6H.6.019 GOST 5915-70	2	Nut
	4	50-3502198	2	Pin
	5	85-3502196	2	Rod
	6	12x32 OST 37.001.163-75	2*/3**	Pin
	7	50-3502203	1*/2**	Fork
	8	M12x1,25-6H.6.019 GOST 5916-70	2*/3**	Nut
	9	70-3503018	1	Washer
	10	70-3503019	1	Bolt
	12	1221M-3507060	1	Lever
	13	2x12.019 GOST 397-79	1	Forelock
	14	70-3507122-01	1	Rod
	15	70-3507132-E-01	1	Axis
	16	C15 GOST 13942-86	1	Ring
	17	C 5.01.019 GOST 6958-78	1	Washer
	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 GOST 7796-70	2	Bolt
	25	70-3507021-E	1	Quadrant
	26	10 OT OST 37.001.115-75	2	Washer
	27	M10-6H.6.019 GOST 5915-70	2	Nut
	28	12 OT OST 37.001.115-75	1	Washer
	29	3,2x18.019 GOST 397-79	3	Forelock
	30	952M-3507041*	1	Rod
	31	M12-6H.6.019 GOST 5915-70*	1	Nut
	32	P50-4616043*	1	Coupling
	33	P50-4616038*	1	Nut
	34	952M-3507240*	1	Rod
	35	1221M-3504055	1	Shaft
	36	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	37	6T OST 37.001.115-75	4	Washer
	38	80M-3502202	1	Casing
	39	80M-3502204	1	Plate
	40	1221M-3502051	1	Gasket
	41	50-1601352	2	Adjusting pin
	42	80M-3502037	2	Intermediate disk (S=3,0mm)
		80M-3502037-01	***	Intermediate disk (S=3,2mm)
		80M-3502037-02	***	Intermediate disk (S=3,4mm)
		80M-3502037-03	***	Intermediate disk (S=3,6mm)
		80M-3502037-04	***	Intermediate disk (S=3,8mm)
		80M-3502037-05	***	Intermediate disk (S=4,0mm)
		80M-3502037-06	***	Intermediate disk (S=4,2mm)
		80M-3502037-07	***	Intermediate disk (S=4,4mm)

* During the installation of double-lever gear-box

** During the installation of single-lever gear-box

*** Selected during the installation for required gap

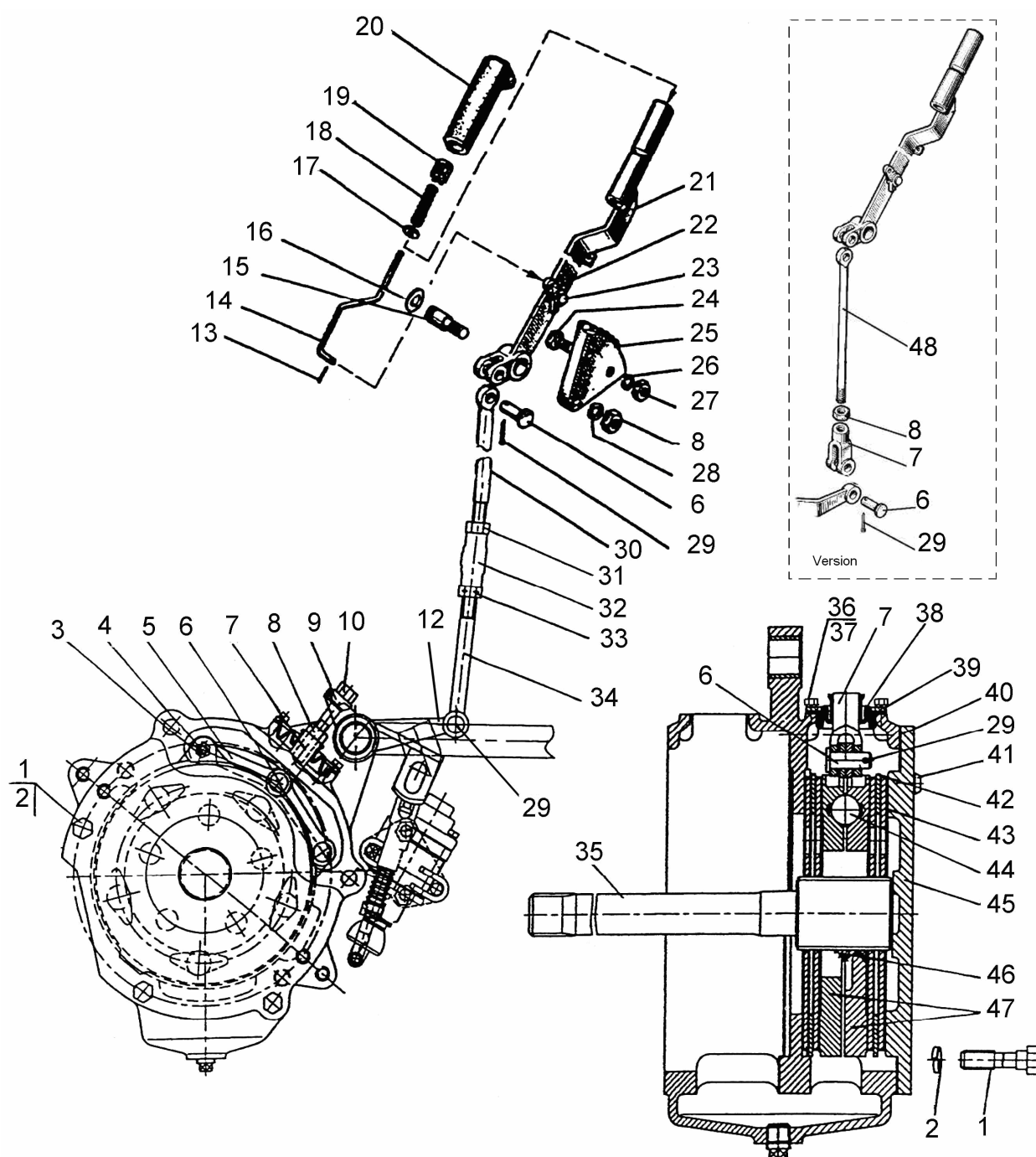


Fig.35.6. Parking brake. Parking brake control

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 No	Q-ty	Name
35.6	43	1522-3502015-07	4	Disk
	44	22,225-100 GOST 3722-81	5	Ball
	45	1221M-3502034	1	Cover
	46	77.38.163	3	Spring
	47	85-3502036-01	2	Pressure disk
	48	952M-3507141**	1	Rod

* During the installation of double-lever gear-box

** During the installation of single-lever gear-box

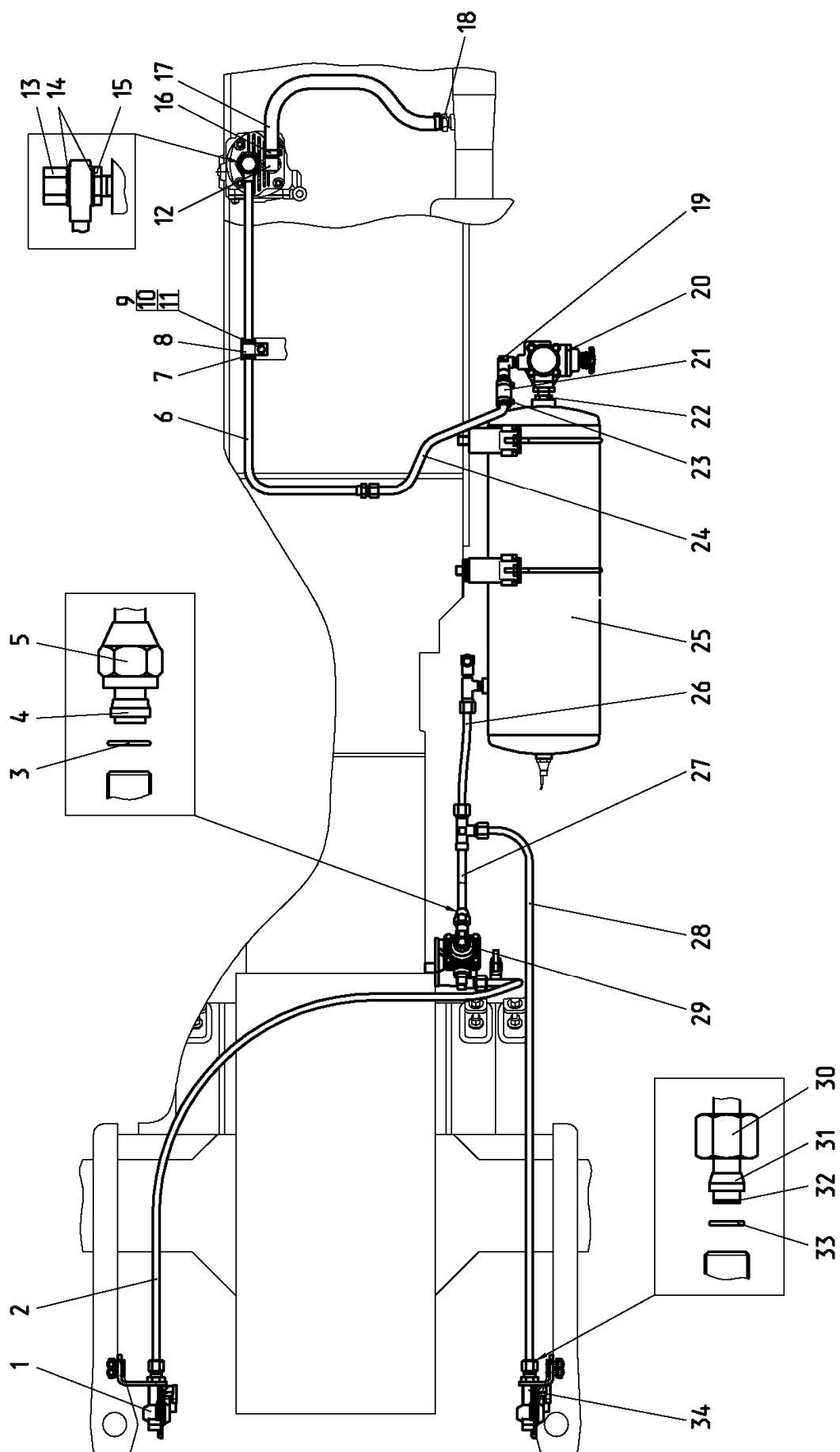


Fig.35.7 Air drive

Group 35. Brakes
Subgroup 3506. Air drive (wet brakes)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.7		1025M-3506505-11	1	Air drive
		1025-3506560-02	1	Pipeline (2, 30-32)
		1021-3506020	1	Pipeline (26, 30-32)
		1025-3506540	1	Pipeline (4, 5, 27)
		1025-3506560	1	Pipeline (28, 30-32)
	1	1025-3521510	1	Coupling head (Fig.)
	2	1025-3506561-02	1	Pipe
	3	014-017-19-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	4	70-3506028	1	Coupling
	5	70-3506023	1	Captive nut
	6	1025M-3506610	1	Pipeline
	7	70-3506027	1	Bushing
	8	822-3723044	1	Clamp
	9	M8-6gx16.88.35.019 GOST 7796-70	1	Bolt
	10	M8-6H.6.019 GOST 5915-70	1	Nut
	11	8T OST 37.001.115-75	1	Washer
	12	265-3509030	1	Adapter
	13	1025-3506623	1	Nut
	14	40-4607038-A	2	Washer
	15	1025-3506622	1	Adapter
	16	5000.04	2	Clamp with worm thread 25-40
	17	1025-3506624	1	Hose
	18	242-3509213	1	Adapter
	19	70-3513015	1	Elbow
	20	A29.51.000 Б or 80-3512010 or 11.3512010-30	1	Pressure regulator
	21	70-1405013	1	Hose
	22	80-3512006	1	Lock nut
	23	5000.02	2	Clamp with worm thread 16-27
	24	1025M-3506620	1	Pipeline
	25	80-3513005	1	Ballon (Fig.35.8)
	26	1021-3506021-06	1	Pipe
	27	1025-3506550	1	Pipeline
	28	1025-3506561-01	1	Pipe
	29	80M-3514005-02	1	Brake valve (Fig.)
	30	1522-3506023	6	Captive nut
	31	1522-3506024	6	Coupling
	32	1522-3506022	6	Nipple
	33	012-015-19-2-4 GOST 18829-73/GOST 9833-73	6	Ring
	34	1025-3521505	1	Coupling head (Fig.)

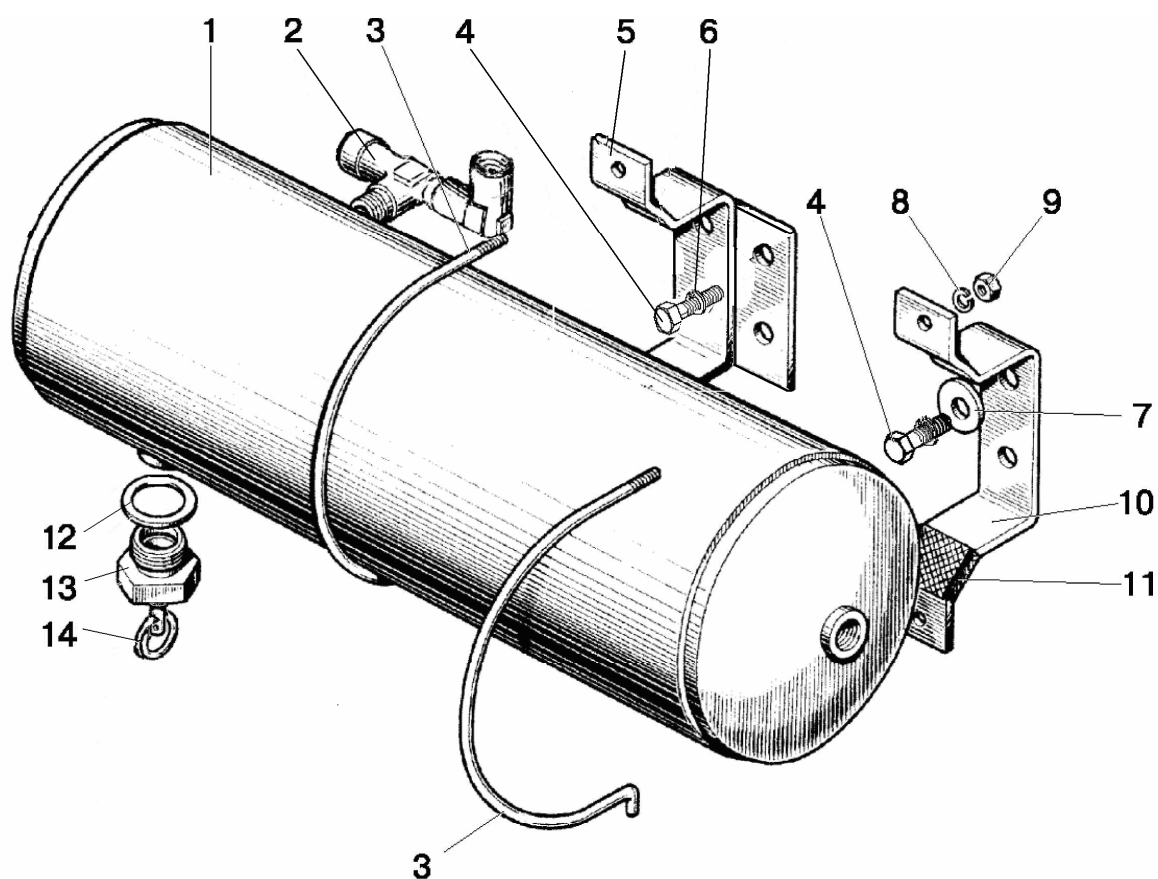


Fig. 35.8. Ballon

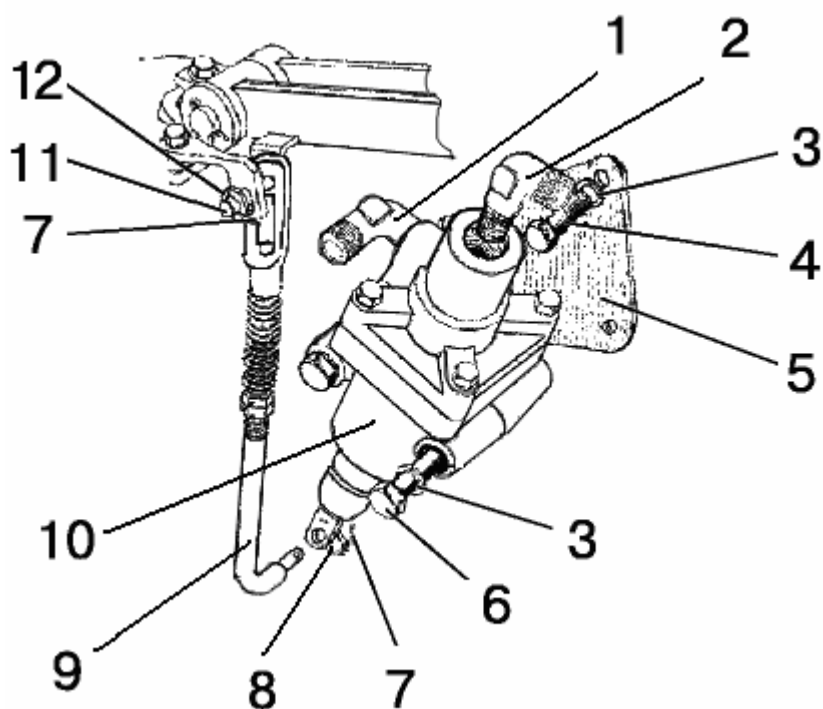


Fig. 35.9. Brake valve

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
35.8	1	80-3513005	1	Ballon
	2	80-3513025	1	Three-way pipe
	3	B50-3513032	2 (4*)	Clamp
	4	M16-6gx32.88.35.019 GOST 7796-70	4 (8*)	Bolt
	5	80-3513040	1 (2*)	Bracket
	6	16 OT OST 37.001.115-75	4 (8*)	Washer
	7	C 16.01.019 GOST 11371-78	1 (2*)	Washer
	8	6T OST 37.001.115-75	2 (4*)	Washer
	9	M6-6H.6.019 GOST 5915-70	2 (4*)	Nut
	10	B50-3513025-A	1 (2*)	Bracket
	11	ПП-43-01	4 (8*)	Seal
	12	B50-3522023	1 (2*)	Gasket
	13	85-3513110	1 (2*)	Valve
	14	H50-4202146	1 (2*)	Ring

* Upon request

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
35.10		80M-3514005-02	1	Brake valve
	1	1522-3514033	1	Elbow
	2	70-3506033	1	Elbow
	3	10 OT OST 37.001.115-75	4	Washer
	4	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	5	80-3514109	1	Bracket
		80M-3514109	1	Bracket
	6	M10-6gx70.88.35.019 GOST 7795-70	2	Bolt
	7	3,2x18.019 GOST 397-79	2	Forelock
	8	C 8.01.019 GOST 11371-78	1	Washer
	9	80-3514130	1	Rod
	10	A29.3514010-02 or 80-3514010-02	1	Brake valve
	11	12x40 OST 37.001.163-75	1	Pin
	12	C 12.01.019 GOST 11371-78	2	Washer

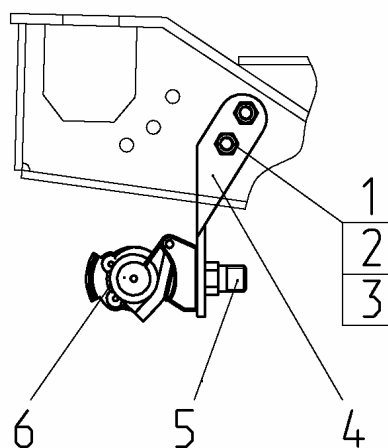


Fig.35.10 Coupling head

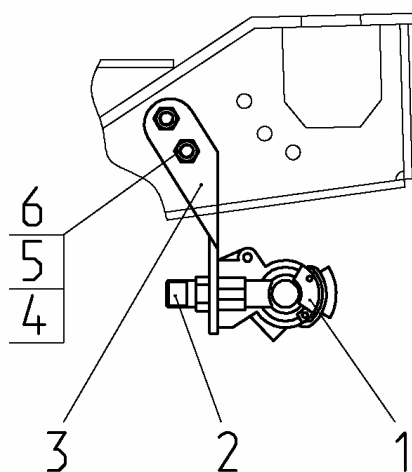


Fig.35.11 Coupling head

Group 35. Brakes
Subgroup 3521. Coupling head

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.10		1025-3521505	1	Coupling head (1-6)
	1	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	2	M10-6H.6.019 GOST 5915-70	2	Nut
	3	10 OT OST 37.001.115-75	2	Washer
	4	1025-3521511	1	Bracket
	5	1522-3521513	1	Adapter
	6	64226-3521110	1	Coupling automatic head

Group 35. Brakes
Subgroup 3521. Coupling head

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.11		1025-3521510	1	Coupling head (1-6)
	1	64226-3521111	1	Coupling automatic head
	2	1522-3521513	1	Adapter
	3	1025-3521512	1	Bracket
	4	B.M8-6gx25.58.019 GOST 17475-80	2	Screw
	5	M8-6H.6.019 GOST 5915-70	2	Nut
	6	8T OST 37.001.115-75	2	Washer

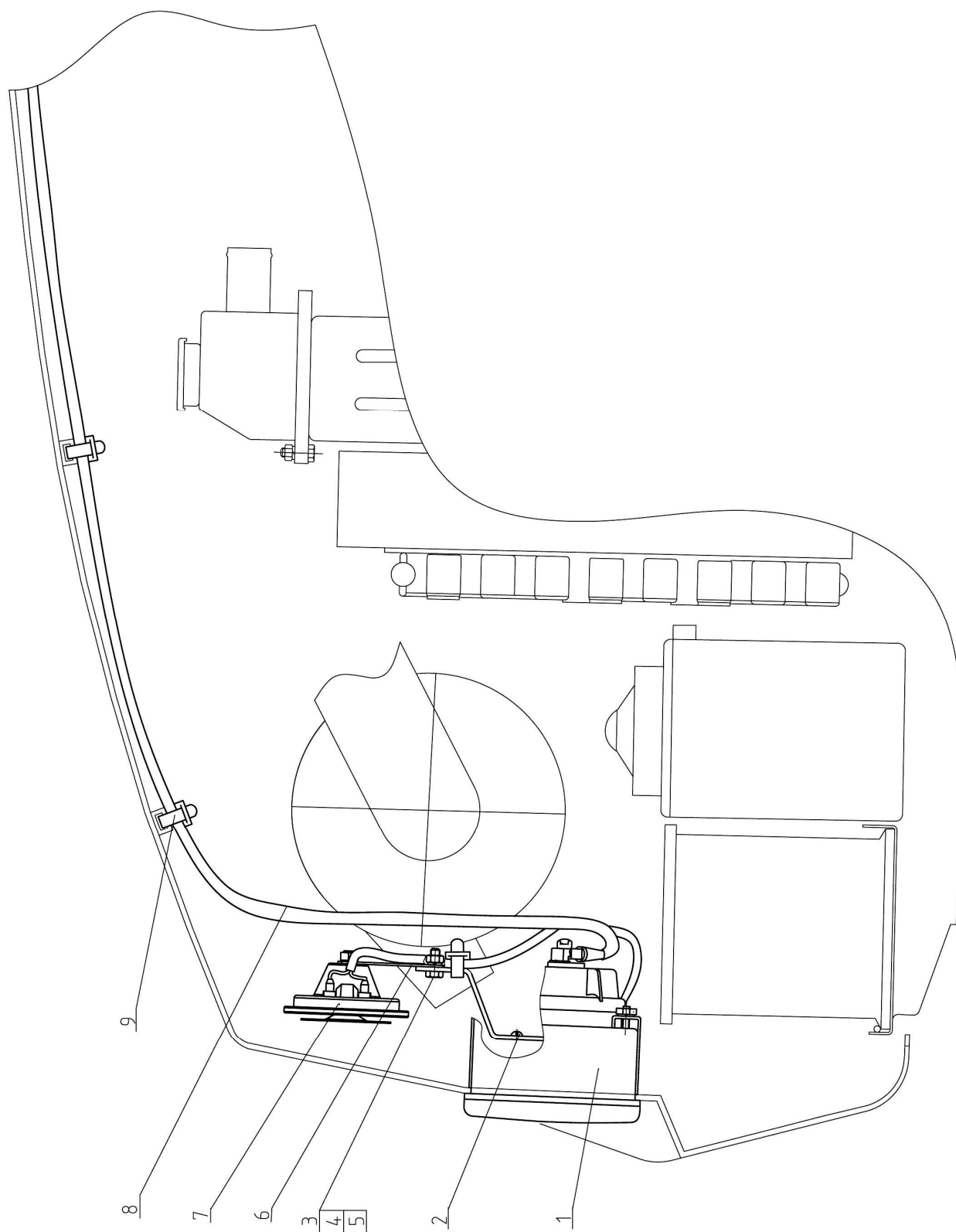


Fig.37.1 Head lamps installation

Group 37. Electrical equipment
Subgroup 3711. Head lamps installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.1		921-3700020		Head lamps installation
	1	08 7101 000	2	Head lamp
	2	4x16.019	2	Male screw
	3	M8-6gx20.88.35.019 GOST 7796-70	1	Bolt
	4	M8-6H.6.019 GOST 5915-70	1	Nut
	5	8T OST 37.001.115-75	1	Washer
	6	921-3721001	1	Bracket
	7	3721.10	1	Beep
	8	921-3724025-B	1	Cord
	9	80-3723045	5	Collar

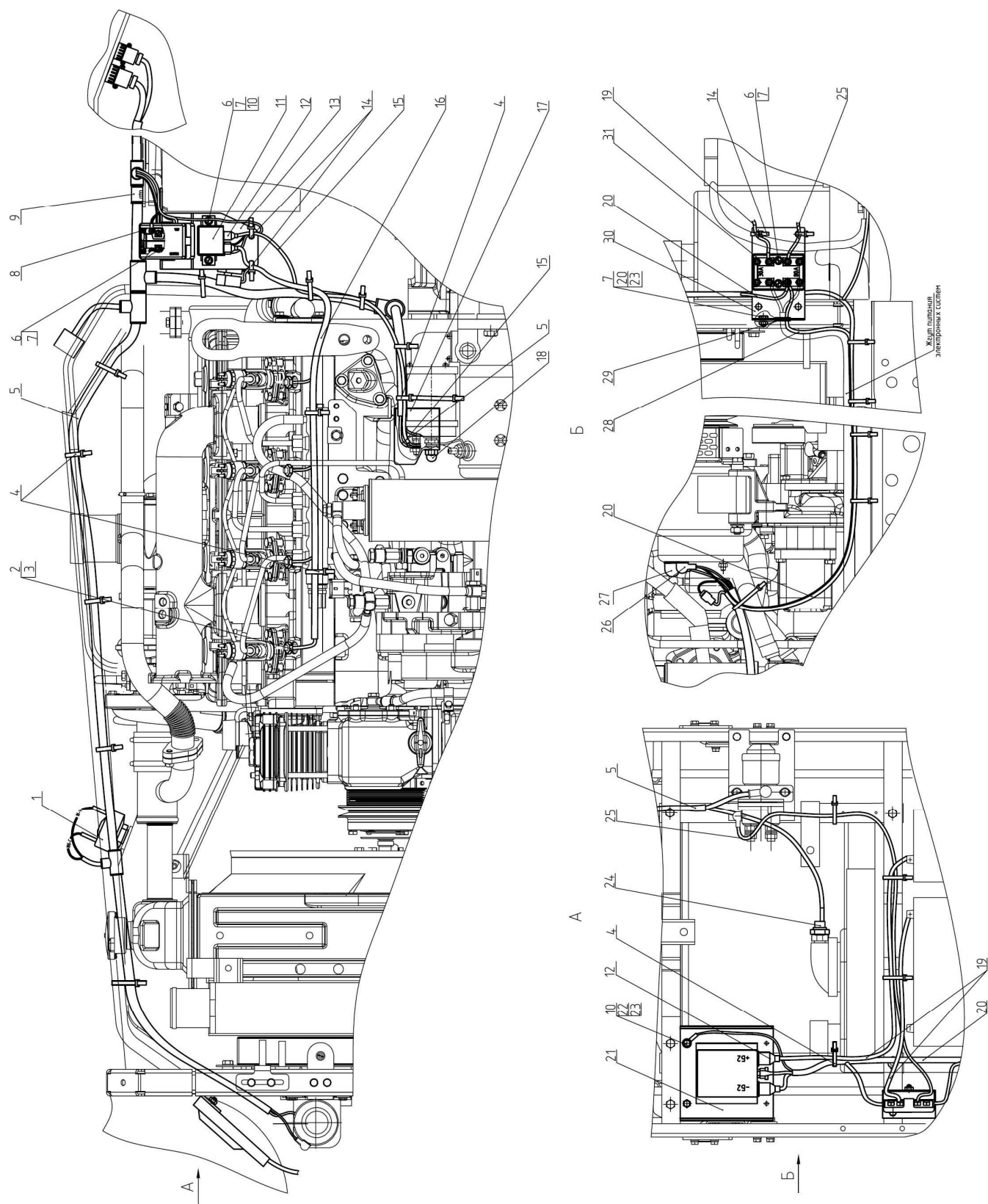


Fig.37.2 Engine electrical equipment

Group 37. Electrical equipment
Subgroup 3700. Engine electrical equipment

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.2		1025.4M-3700030		Engine electrical equipment
	1	3845.10	1	Air cleaner clogging sensor
	2	M5-6H.6.019 GOST 5927-70	4	Nut
	3	5T OST 37.001.115-75	4	Washer
	4	80-3723045-01	24	Collar
	5	1025.4M-3724360	1	Cord
	6	B.M6-6gx20.58.019 GOST 17473-80	6	Screw
	7	6T OST 37.001.115-75	10	Washer
	8	3722.40	1	Fuse block
	9	822-3723044	1	Clamp
	10	C 6.01.019 GOST 11371-78	2	Washer
	11	3747.35	1	Glow plug relay
	12	70-3723035	2 (4*)	Tip
	13	1221.4-3747020	1	Bracket
	14	80-3723045	4	Collar
	15	80-3724381	1	Cable
	16	80-3724380-A	1	Cord
	17	15.421.241	1	Casing
	18	15.421.224	1	Shaped nut
	19	920-3724368-B	1 (2*)	Cable
	20	1025.4-3724345	1*	Cord
	21	3759.10	1*	Voltage converter
	22	M6-6gx20.88.35.019 GOST 7798-70	4	Bolt
	23	M6-6H.6.019 GOST 5915-70	4	Nut
	24	3829.15	1	Air pressure emergency sensor
	25	1025.4-3724367	1	Cable
	26	54.24.445-B	1	Tip
	27	TM-59-6000-38	1	Rubber tip
	28	1025.4-3724045	1	Cable
	29	320-3407004	1	Bushing
	30	1025.4-3722020	1	Bracket
	31	3722.55	1	Fuse block

* With starting system 24 V

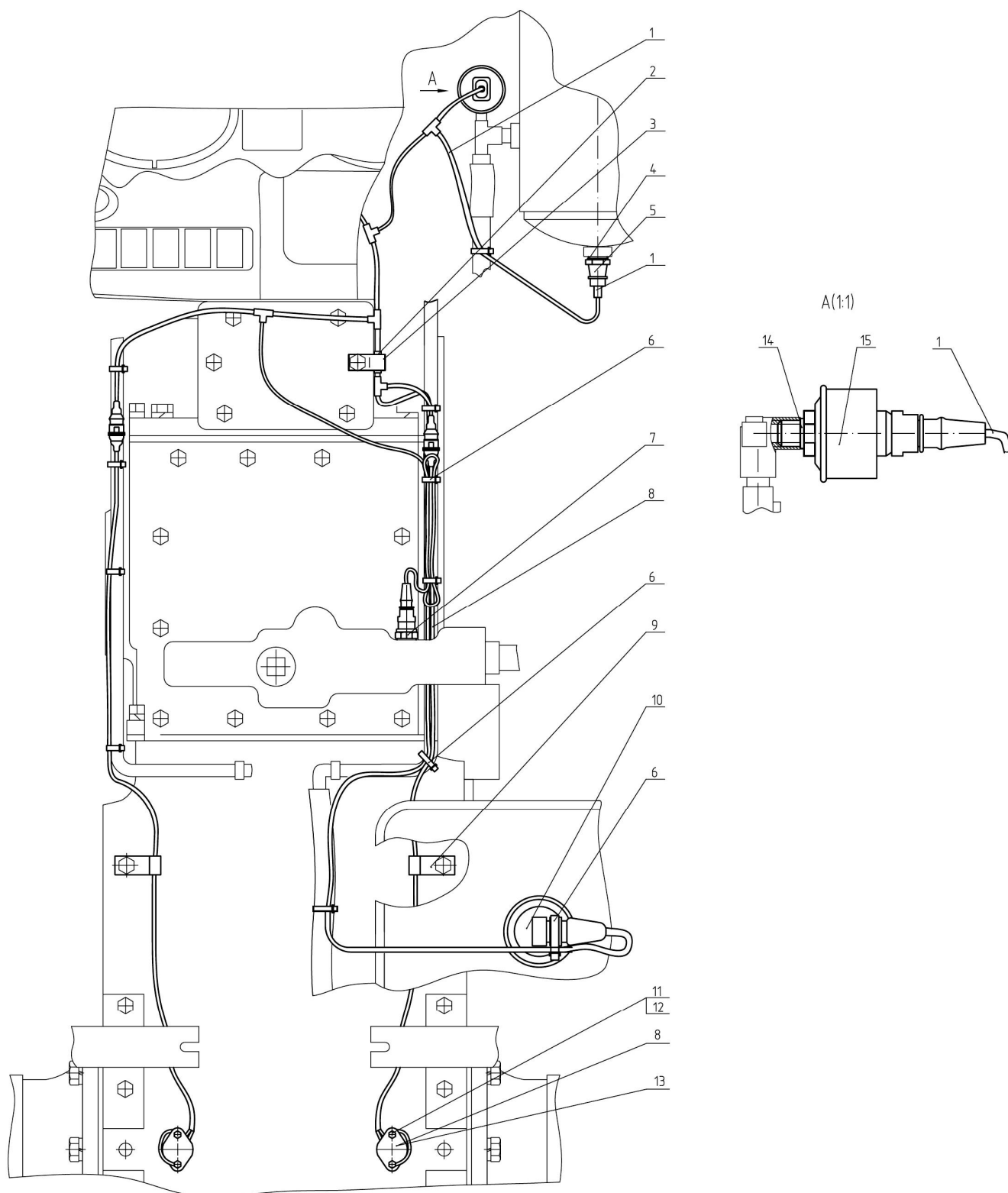


Fig.37.3 Transmission electrical equipment

Group 37. Electrical equipment
Subgroup 3700. Transmission electrical equipment

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.3		80-3700040-B-04 80-3853010-B		Transmission electrical equipment Installation of velocity sensors
	1	826-3724317	1	Cord
	2	70-3506027	1	Bushing
	3	70-1115012-03	1	Clamp
	4	85-1702051	1	Washer
	5	3829.25	1	Air pressure emergency sensor
	6	80-3723045-01	11	Collar
	7	3710.70	1	Starting speed switch
	8	3843.10	2	Rpm sensor
	9	822-3723001	2	Joke
	10	3827.10	1	Fuel level sensor 21
	11	M8-6gx25.88.35.019 GOST 7796-70	4	Bolt
	12	8T OST 37.001.115-75	4	Spring washer
	13	80-3843001	10	Gasket
	14	Д18-055-A	1	O-ring
	15	3829.20	1	Air pressure sensor

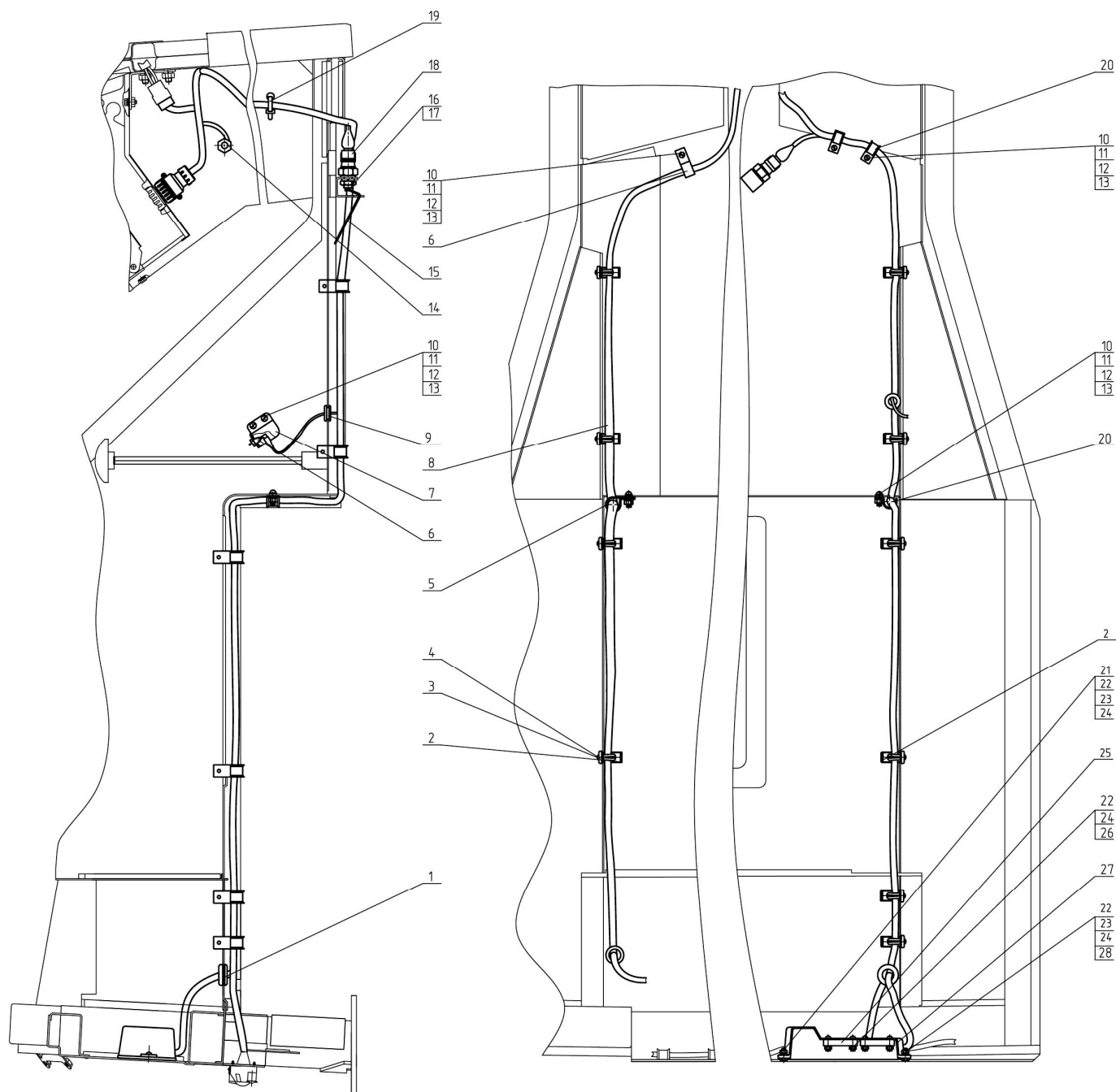


Fig.37.4 Cabin electrical equipment

Group 37. Electrical equipment
Subgroup 3700. Cabin electrical equipment

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.4		80-3700050-Г-03		Cabin electrical equipment
	1	70-3723042-02	1	Bushing
	2	85-3723041	6	Joke
	3	A37.10.031	6	Bonka
	4	2-4x16.019 GOST 1144-80	6	Male screw
	5	70-1115012-01	2	Clamp
	6	3710.60	1	Hand brake lamp switch
	7	80-3710012	1	Bracket
	8	80-3724300-Г1	1	Cord
	9	70-3723042-01	1	Bushing
	10	B.M5-6gx16.58.019 GOST 17473-80	5	Screw
	11	M5-6H.6.019 GOST 5927-70	5	Nut
	12	C 5.01.019 GOST 11371-78	5	Washer
	13	5T OST 37.001.115-75	5	Spring washer
	14	3829.15	1	Air pressure emergency sensor
	15	85-3710032	1	Lever
	16	85-3710025	1	Nut
	17	14 Л GOST 6402-70	1	Spring washer
	18	3720.10	1	Brake light switch
	19	80-3723045	2	Collar
	20	80-3723038	3	Joke
	21	M6-6gx20.58.35.019 GOST 7798-70	1	Bolt
	22	M6-6H.6.019 GOST 5915-70	5	Nut
	23	C 6.01.019 GOST 11371-78	2	Washer
	24	6T OST 37.001.115-75	6	Washer
	25	3723.20	2	Connecting three-contact panel
	26	B.M6-6gx20.58.019 GOST 17473-80	4	Screw
	27	70-3723034	1	Panel cover
	28	M6-6gx25.88.35.019 GOST 7798-70	1	Bolt

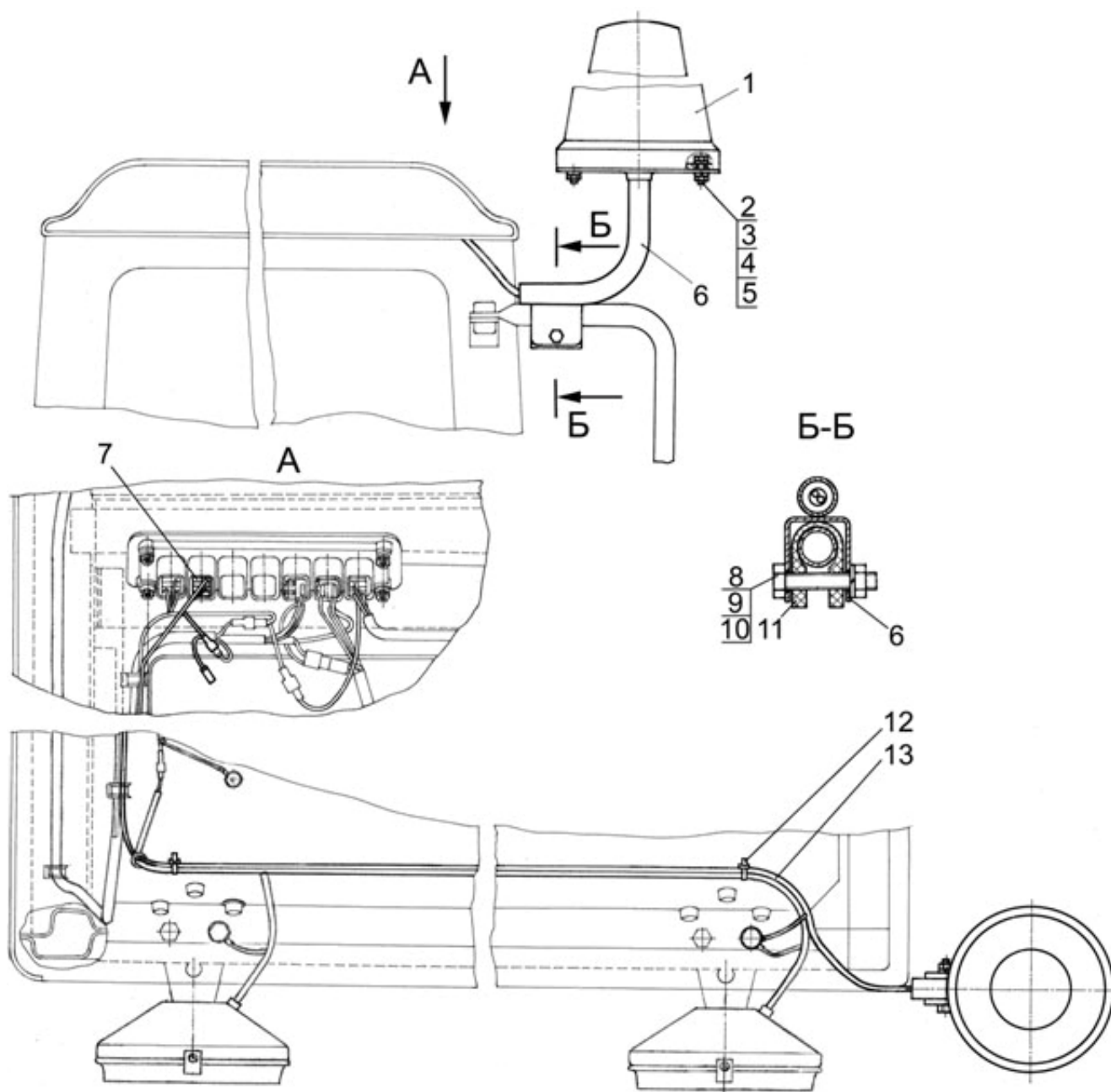


Fig.37.5 Signalling beacon installation

Group 37. Electrical equipment
Subgroup 3738. Signalling beacon installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.5		80-3738010	1	Signalling beacon installation
	1	MC-2-12-0	1	Signalling beacon
	2	M6-6gx25.88.35.019 GOST 7798-70	3	Bolt
	3	M6-6H.6.019 GOST 5915-70	3	Nut
	4	C 6.01.019 GOST 11371-78	3	Washer
	5	6T OST 37.001.115-75	3	Washer
	6	320-3738005	1	Bracket
	7	BK343M-01.88	1	Switch
	8	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	9	M8-6H.6.019 GOST 5915-70	1	Nut
	10	8T OST 37.001.115-75	1	Washer
	11	A30.04.051	1	Clamp
	12	80-3723045	2	Collar
	13	80-3724234	1	Cord

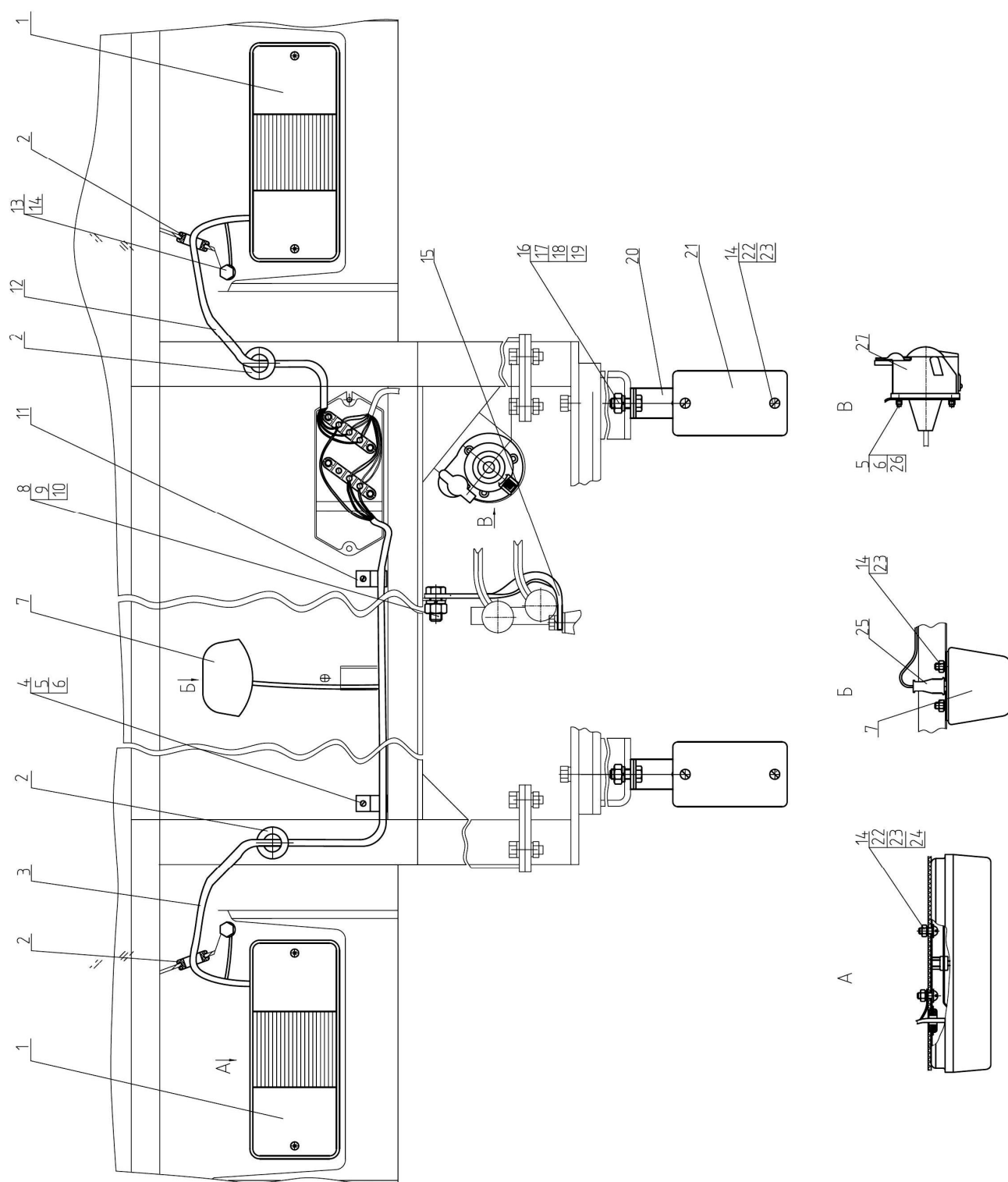


Fig.37.6 Rear lights installation

Group 37. Electrical equipment
Subgroup 3716. Rear lights installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.6		80-3700060-B-05		Rear lights installation
	1	3716.10	2	Rear light
	2	70-3723042-02	4	Bushing
	3	920-3724163	1	Cord
	4	B.M5-6gx12.58.019 GOST 17473-80	3	Screw
	5	M5-6H.6.019 GOST 5927-70	6	Nut
	6	5T OST 37.001.115-75	6	Washer
	7	3717.10	1	Number plate light
	8	M12-6gx25.88.35.019 GOST 7796-70	1	Bolt
	9	M12-6H.6.019 GOST 5915-70	1	Nut
	10	12 OT OST 37.001.115-75	1	Spring washer
	11	80-3723043	3	Joke
	12	920-3724162	1	Cord
	13	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	14	6T OST 37.001.115-75	12	Washer
	15	80-3724112	1	Jumper
	16	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	17	M10-6H.6.019 GOST 5915-70	2	Nut
	18	C 10.01.019 GOST 6958-78	2	Washer
	19	10 OT OST 37.001.115-75	2	Washer
	20	Φ50-3731011	2	Bracket
	21	3731.10	2	Reflector
	22	B.M6-6gx18.58.019 GOST 17473-80	8	Screw
	23	M6-6H.6.019 GOST 5915-70	10	Nut
	24	C 6.01.019 GOST 11371-78	4	Washer
	25	70-3723035	1	Tip
	26	B.M5-6gx35.58.019 GOST 17475-80	3	Screw
	27	3723.10	1	Trailer socket

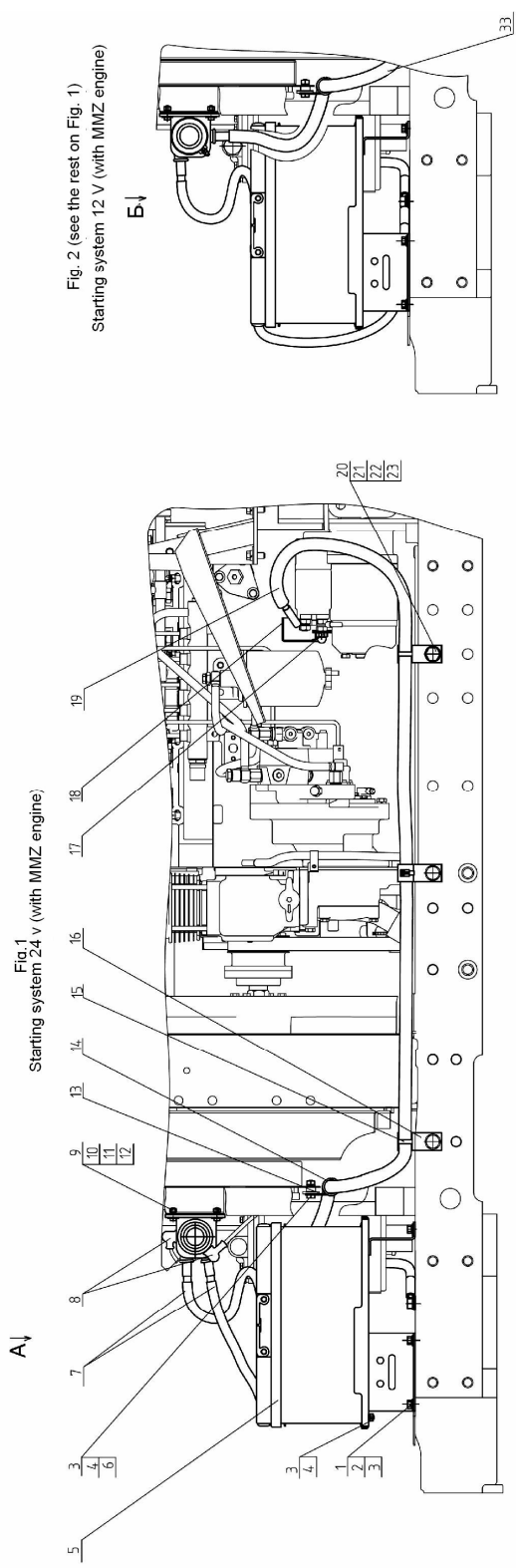


Fig. 2 (see the rest on Fig. 1)
Starting system 12 V (with MMZ engine)

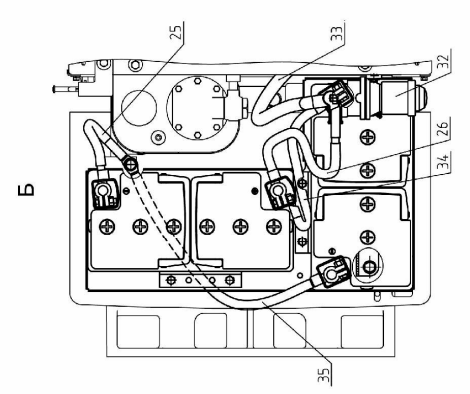
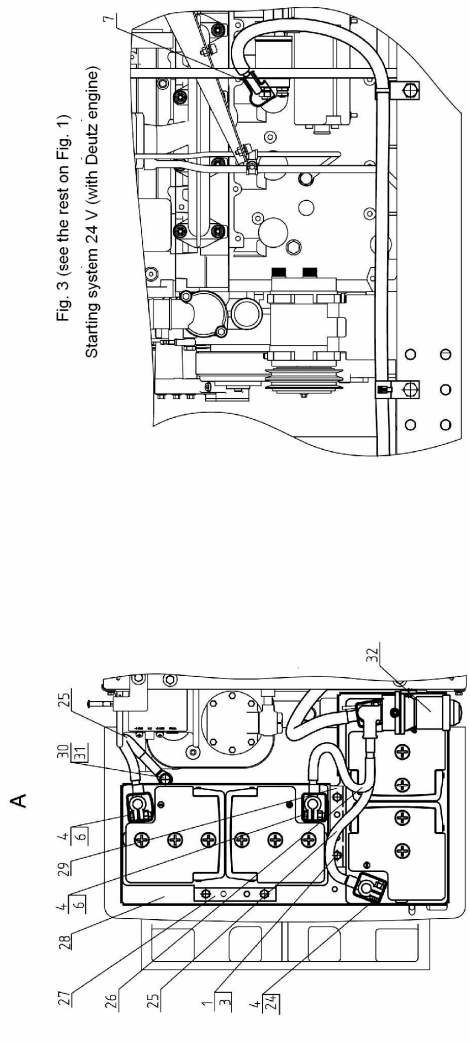
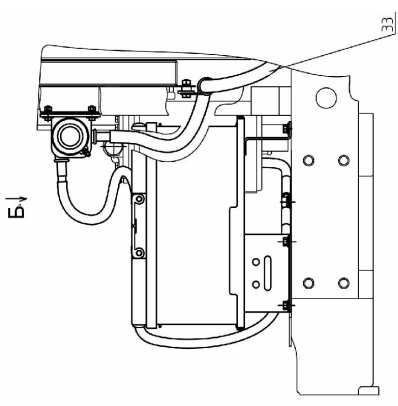


Fig.37.7 Storage battery installation

Notes for Fig. 37.7

Designation	Fig.	Note
920-3700080	1	Starting system 24 V with MMZ engine
920-3700080-01	1	Starting system 24 V with MMZ engine for the tropics*
920-3700080-02	2	Starting system 12 V with MMZ engine
920-3700080-03	2	Starting system 12 V with MMZ engine for the tropics *
920-3700080-04	3	Starting system 24 V with DEUTZ engine

Group 37. Electrical equipment
Subgroup 3703. Storage battery installation

Fig.No	Pos. No	Assembly unit or part No	Version code 920-3700080-			Name
37.7			-/-01	-02/-03	04	
	1	M8-6gx20.88.35.019 GOST 7796-70	8	8	8	Bolt
	2	C 8.01.019 GOST 11371-78	6	6	6	Washer
	3	8T OST 37.001.115-75	11	11	11	Washer
	4	M8-6H.6.019 GOST 5915-70	7	7	7	Nut
	5	3703.16	2	2	2	Storage battery 12/88 * Storage battery 12/88T
	6	M8-6gx35.88.35.019 GOST 7796-70	3	3	3	Bolt
	7	TM-59-6000-38	2	2	3	Rubber tip
	8	54.24.445-Б	2	1	2	Tip
	9	M6-6gx25.88.35.019 GOST 7798-70	2	2	2	Bolt
	10	M6-6H.6.019 GOST 5915-70	2	2	2	Nut
	11	C 6.01.019 GOST 11371-78	2	2	2	Washer
	12	6T OST 37.001.115-75	2	2	2	Washer
	13	923-3723012	3	3	3	Clamp
	14	ПР-32-04	1	1	1	Seal
	15	80-3723045-01	3	3	3	Collar
	16	2022-3723011	3	3	3	Bracket
	17	15.421.224	1	1		Shaped nut
	18	15.421.241	1	1		Casing
	19	923-3724041	1		1	Cable
	20	M16-6gx45.88.35.019 GOST 7796-70	1	1	1	Bolt
	21	M16-6H.6.019 GOST 5915-70	1	1	1	Nut
	22	C 16.01.019 GOST 11371-78	1	1	1	Washer
	23	16 OT OST 37.001.115-75	1	1	1	Washer
	24	M8-6gx30.88.35.019 GOST 7796-70	2	2	2	Bolt
	25	923-3724042	2	1	2	Cable
	26	1221B-3724044-Б	1	1	1	Cable
	27	80B-3703020	1	1	1	Clamp
	28	920-3703010-Б	1	1	1	Base
	29	80B-3703020-01	1	1	1	Clamp
	30	M12-6gx30.88.35.019 GOST 7796-70	1	1	1	Bolt
	31	16 OT OST 37.001.115-75	1	1	1	Washer
	32	3737.15	1		1	Remote battery switch 24 V
		3737.10		1		Remote battery switch 12 V
	33	822-3724041-Б		1		Cable
	34	1221B-3724041		1		Cable
	35	1221B-3724075		1		Cable

* version for the tropics

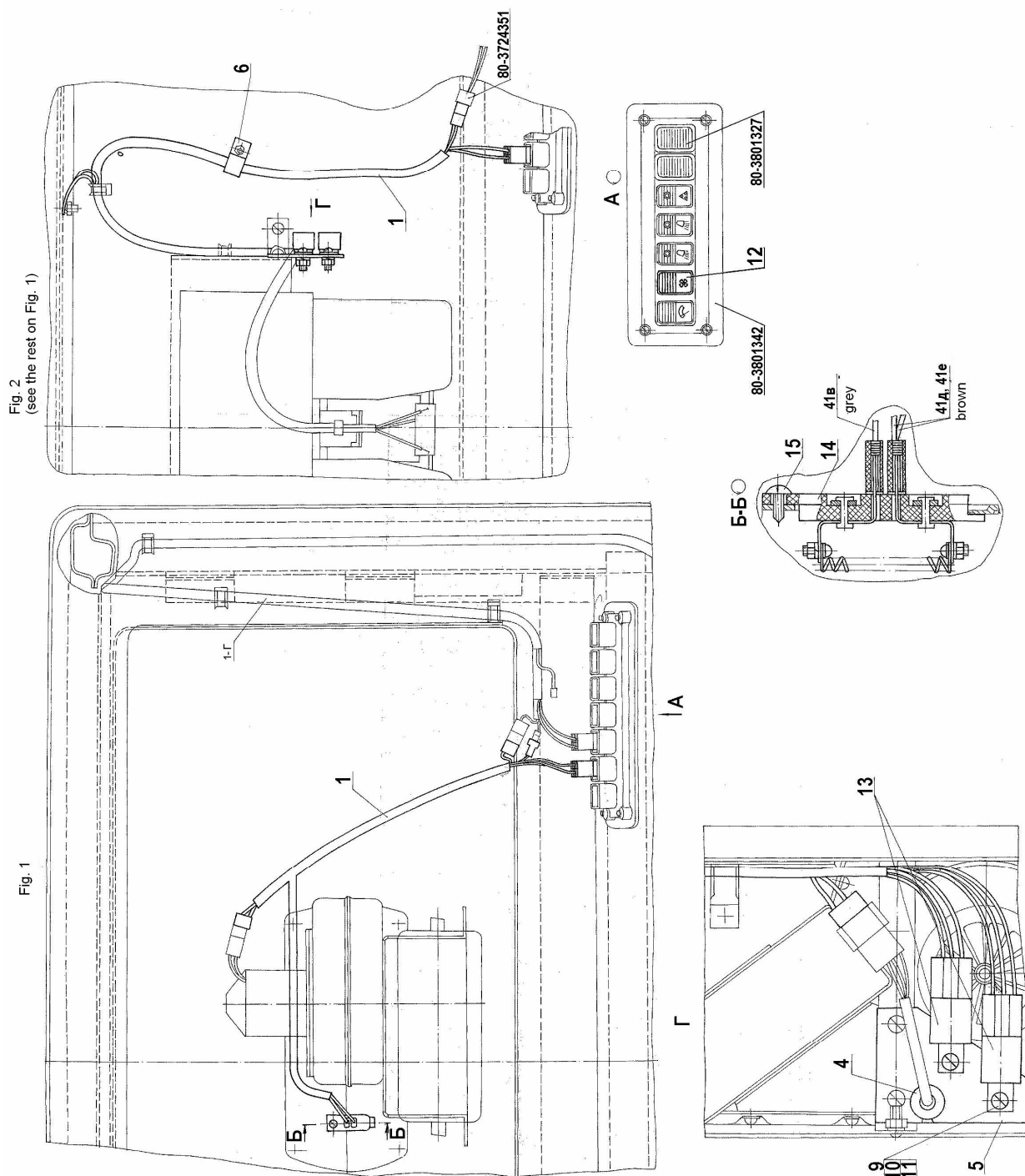


Fig.37.8 Heater electrical equipment

Note for Fig. 37.8

Designation	Fig.	Note
80-3700090-Ж	1	With heater 80-8101720 (Republic of Belarus)
80-3700090-Ж-01	2	With heater 80-8101200 (Russian Federation)

Group 37. Electrical equipment
Subgroup 3730. Heater electrical equipment

Fig.No	Pos. No	Assembly unit or part No	Version code 80-3700090-Ж		Name
37.8			-	- 01	
		80-3700090-Ж			Heater electrical equipment
		80-3700090-Ж-01			
	1	80-3724353-Г	1		Cord
		80-3724354		1	
	4	70-3723042-01		1	Bushing
	5	80-3747016		1	Bracket
	6	1321-8700029		1	Clamp
	9	B.M6-6gx12.58.019 GOST 17473-80		2	Screw
	10	M6-6H.6.019 GOST 5915-70		2	Nut
	11	6T OST 37.001.115-75		2	Washer
	12	П147М-04.11	1	1	Switch
	13	902.3747-10 TU 37.003.1418-94		2	Relay
	14	11.3729	1		Additional resistor
	15	4x10.019	1		Male screw

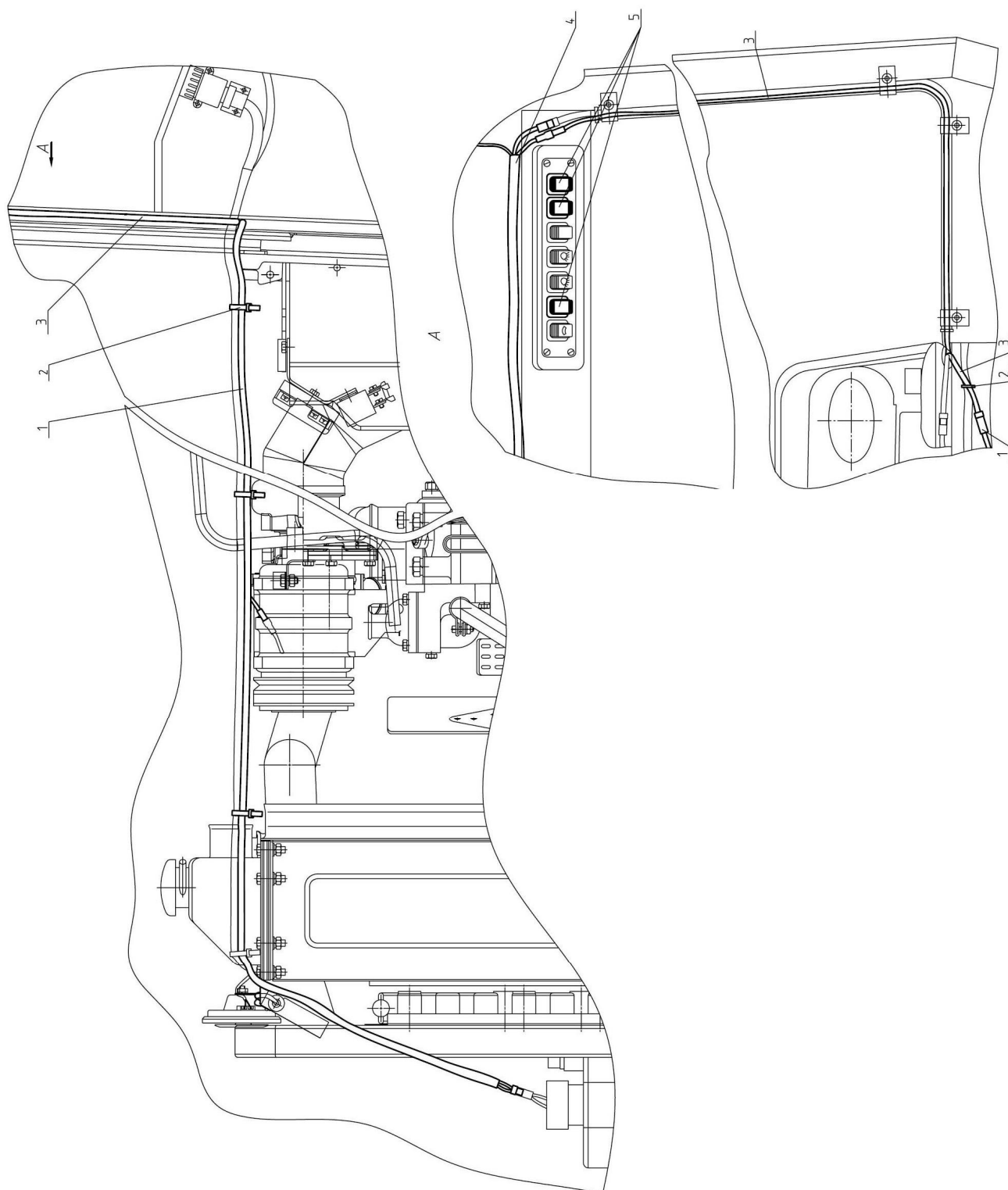


Fig.37.9 Conditioner installation

Note for Fig. 37.9

Designation	Note
80-3700115	with MMZ engine
80-3700115-01	with DEUTZ engine

Group 37. Electrical equipment
Subgroup 3700. Conditioner installation

Fig. No	Pos. No	Assembly unit or part No	Version code 80-3700115-		Name
			-	-01	
37.9	1	80-3724375	1		Cord
	2	80-3723045	4	4	Collar
	3	80-3724357	1	1	Cable
	4	80-3724355	1	1	Cord
	5	80-3801327	3	3	Blind plug

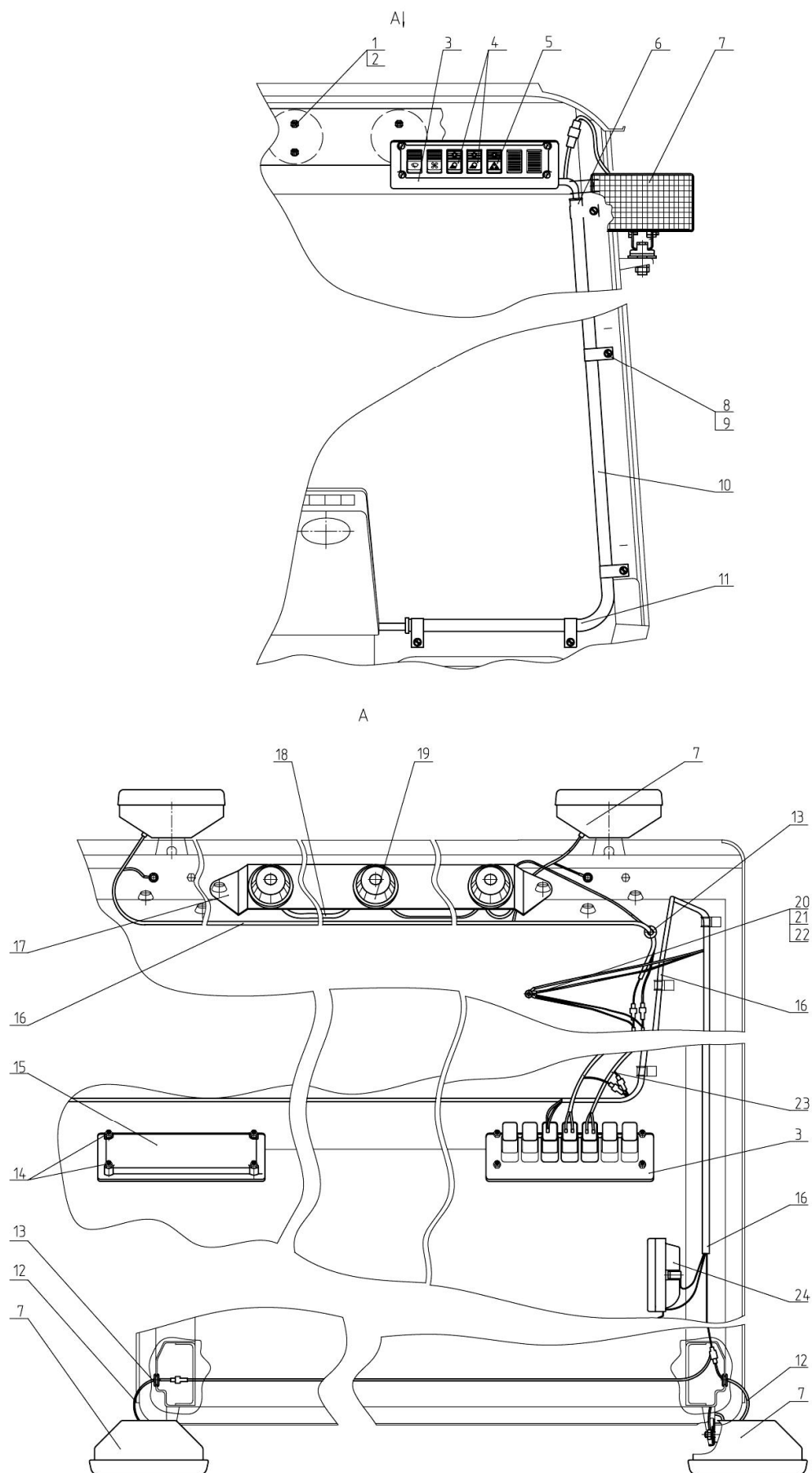


Fig.37.10 Working lights installation

Group 37. Electrical equipment
Subgroup 3711. Working lights installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.10		80-3700110-B-02		Working lights installation
		80-3700110-B-05*		Working lights installation
	1	M5-6H.6.019 GOST 5927-70	2	Nut
	2	5T OST 37.001.115-75	2	Spring washer
	3	80-3801342	1	Shield
	4	3710.30	2	Working lights switch
	5	3710.40	1	Road train sign switch
	6	80-3723010	1	Duct
	7	3711.215	4	Working light
	8	B.M6-6gx12.58.019 GOST 17473-80	5	Screw
	9	C 6.01.019 GOST 11371-78	5	Washer
	10	80-3723020	1	Duct
	11	80-3723015	1	Duct
	12	80-3724035-Б	2	Cable
	13	70-3723042-01	3	Bushing
	14	B.M6-6gx12.58.019 GOST 17474-80	8	Screw
	15	80-7901018	1	Shield
	16	80-3724232-Б	1	Cord
	17	80-3738001*	1	Bracket
	18	80-3724233-Б*	1	Cord
	19	3738.10*	3	Road train lamp
	20	M6-6gx25.88.35.019 GOST 7798-70	1	Bolt
	21	M6-6H.6.019 GOST 5915-70	2	Nut
	22	6T OST 37.001.115-75	2	Spring washer
	23	80-3724231-Б	1	Cord
	24	3714.10	1	Cabin dome light 105x95

* With road train lamps

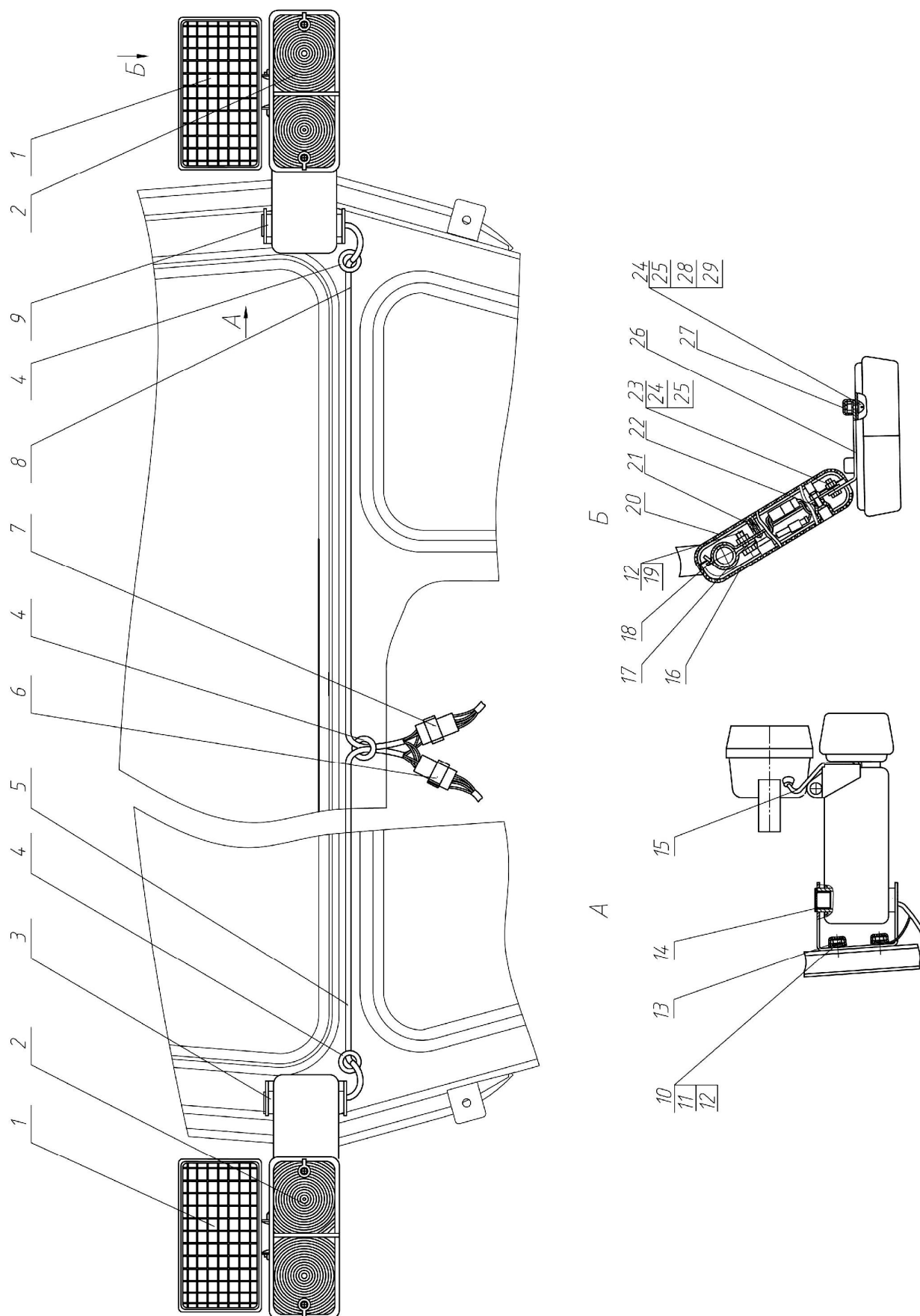


Fig.37.11 Front lights installation

Group 37. Electrical equipment
Subgroup 3712. Front lights installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.11		82П-3700020-03		Front lights installation
	1	8724.304/011	2	Working light
	2	3713.3712	2	Front light
	3	920-3712025-Б-01	1	Bracket
	4	70-3723042-02	3	Bushing
	5	920-3724132-A	1	Cord
	6	520604	1	Male socket
	7	620604	1	Female socket
	8	920-3724131-A	1	Cord
	9	920-3712025-Б	1	Bracket
	10	M8-6gx20.88.35.019 GOST 7796-70	8	Bolt
	11	C 8.01.019 GOST 6958-78	8	Washer
	12	8T OST 37.001.115-75	8	Washer
	13	A30.04.017-01	4	Cap
	14	36-4603079-Б2	2	Blind plug
	15	923-3724142	2	Cord
	16	920-3712021	2	Casing
	17	920-3712013	2	Jokey
	18	920-3712010	2	Bracket
	19	M8-6gx20.88.35.019 GOST 7796-70	8	Bolt
	20	920-3712022	2	Casing
	21	4x10.019	8	Male screw
	22	B.M6-6gx20.58.019 GOST 17475-80	4	Screw
	23	M6-6gx18.88.35.019 GOST 7798-70	8	Bolt
	24	M6-6H.6.019 GOST 5915-70	8	Nut
	25	6T OST 37.001.115-75	8	Washer
	26	920-3712012	2	Bracket
	27	A30.04.017	4	Cap
	28	B.M6-6gx18.58.019 GOST 17473-80	4	Screw
	29	C 6.01.019 GOST 11371-78	4	Washer

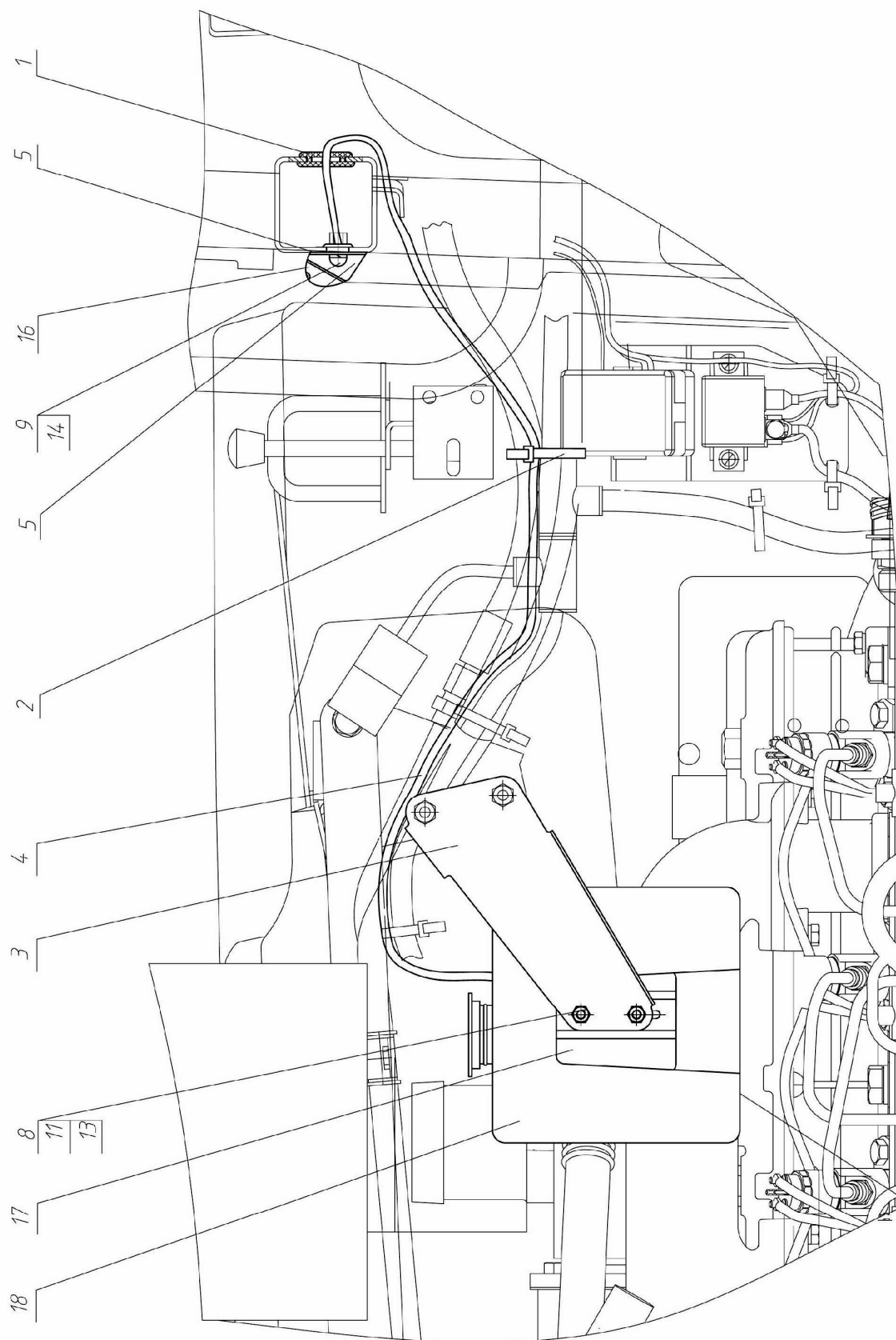


Fig.37.12 Windscreen washer

Group 37. Electrical equipment
Subgroup 5205. Windscreen washers

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.12		1021.4M-5208010		Windscreen washer installation
	1	122.5208 000-35	1	Electrical washer
	2	122.5208 304	1	Bracket
	3	B.M4-6gx12.58.019 GOST 17473-80	2	Screw
	4	M4-6H.6.019 GOST 5927-70	2	Nut
	5	C 4.01.019 GOST 11371-78	2	Washer
	6	4 OST 37.001.115-75	2	Spring washer
	7	950-5208001	1	Bracket
	8	923-5208002-02	1	Pipe
	9	80-3723045-01	2	Collar
	10	80-5208011-A	1	Flange
	11	B.M6-6gx12.58.019 GOST 17473-80	2	Screw
	12	6T OST 37.001.115-75	2	Washer
	13	5208.10	1	Fuel jet
	14	70-3723042-01	1	Bushing

Group 37. Electrical equipment
Subgroup 5205. Windscreen wipers

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.13		80-5205050-B		Windscreen wiper
	1	5205.25	1	Brush with lever 660/600
	2	5205.10	1	Parallel-motion windscreen wiper
	3	C6.01.019 GOST 11371-78	4	Nut
	4	6T OST 37.001.115-75	6	Washer
	5	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	6	3709.25	1	Windscreen wiper switch
	7	5205.20	1	Windscreen wiper
	8	5205.30	1	Windscreen wiper lever 420
	9	80B-3724010	1	Cord
	10	5205.35	1	Windscreen wiper brush 460
	11	80-5205031	1	Bracket
	12	80B-3724310-14	1	Cable

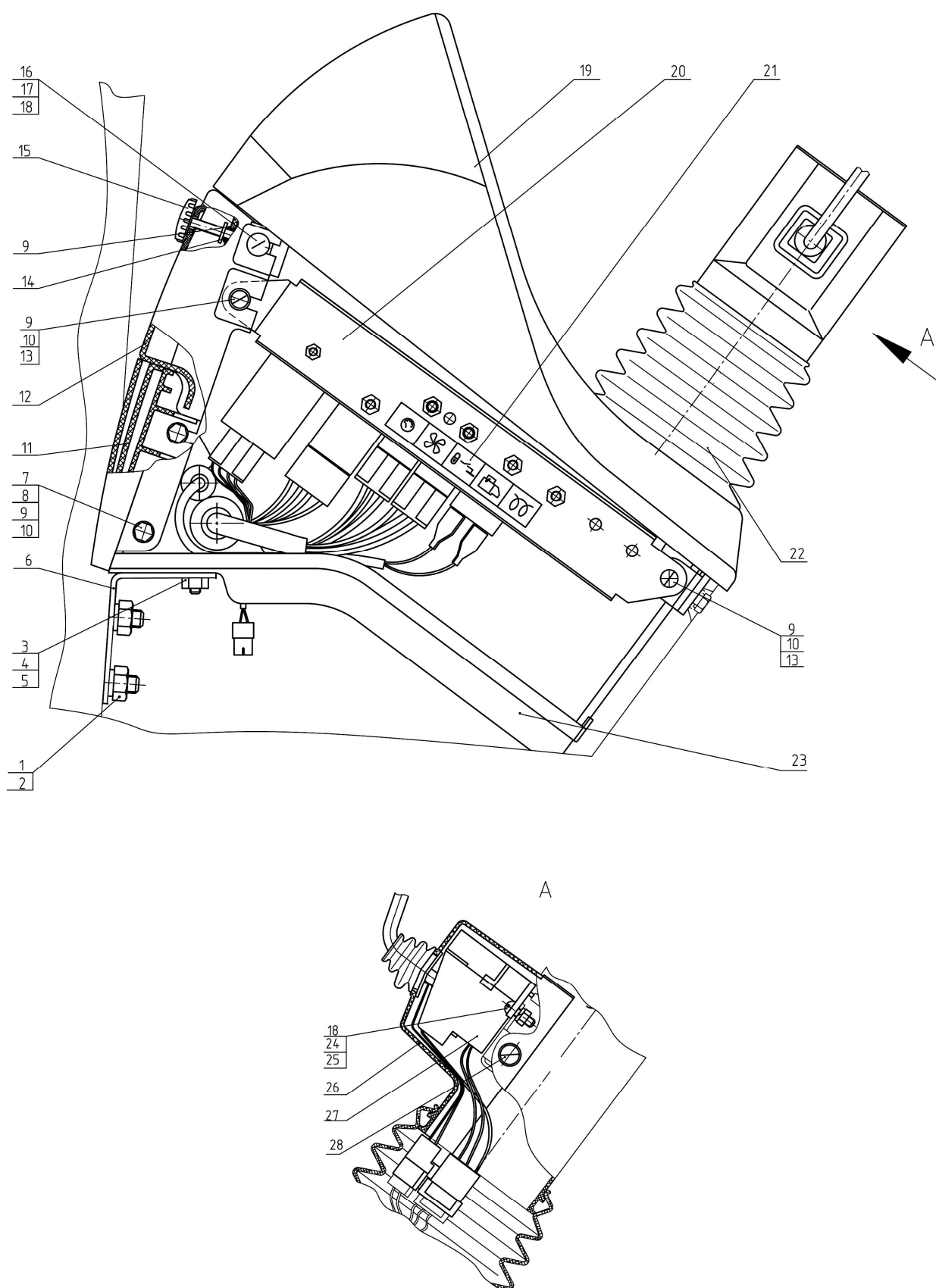


Fig.38.1 Dashboard

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

Fig.No	Pos.No	Assembly unit or part No	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	Board
	20	80-3805070	1	Panel
	21	826-3805025	1	Instruction plate
	22	80-3805012-Б	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	1	Casing
	27	3912.3769-01 or ПКП-1А	1	Underwheel switch
	28	B2.M6-6gx16.58.05 GOST 17473-80	2	Screw

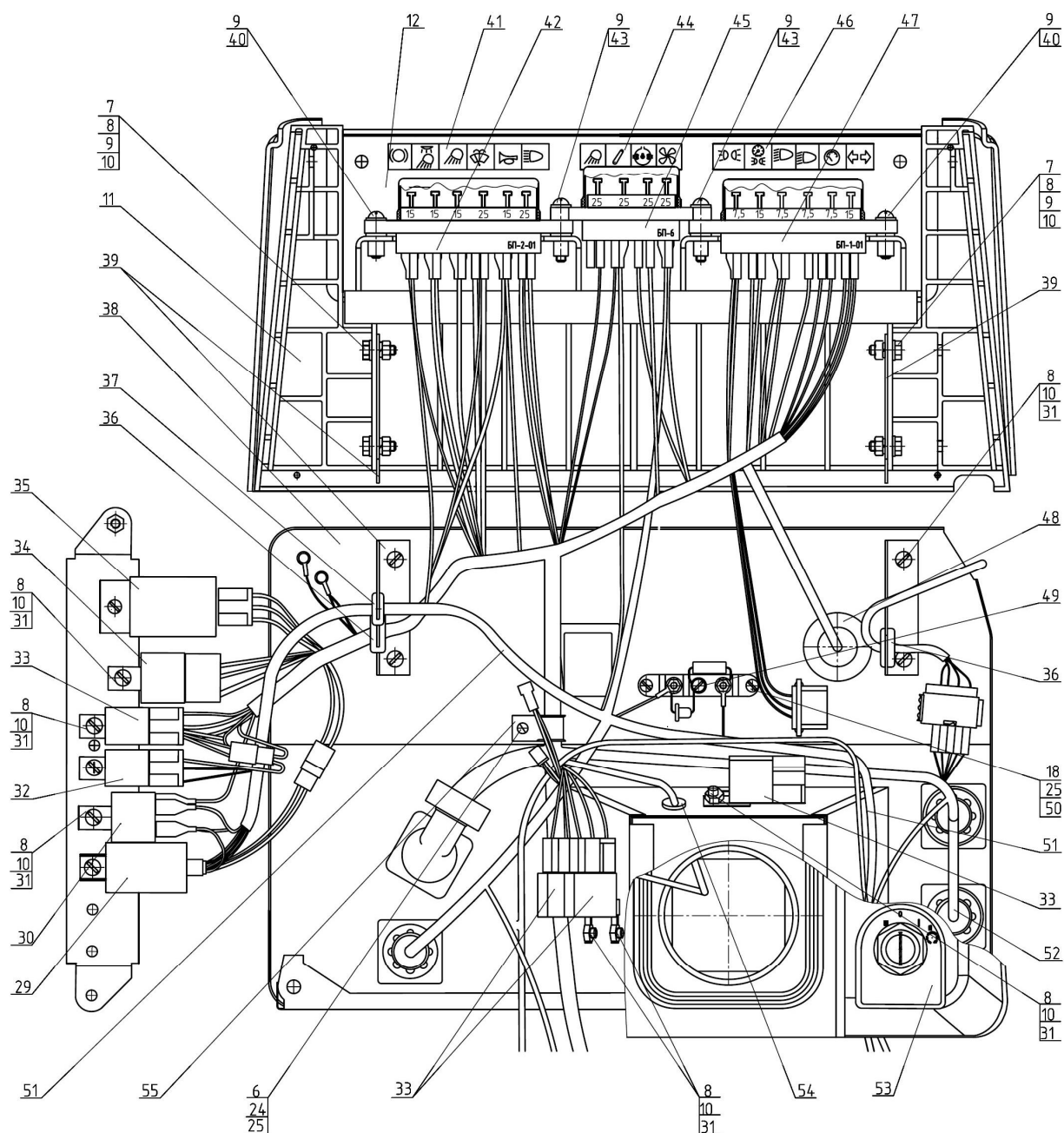


Fig.38.2 Dashboard

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

Fig.No	Pos.No	Assembly unit or part No	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	Cord
	52	826.4-3724395-Б	1	Cord
	53	826-3805013-01	1	Instruction plate
	54	50-4607064	1	Bushing
	55	80-3723043	1	Joke

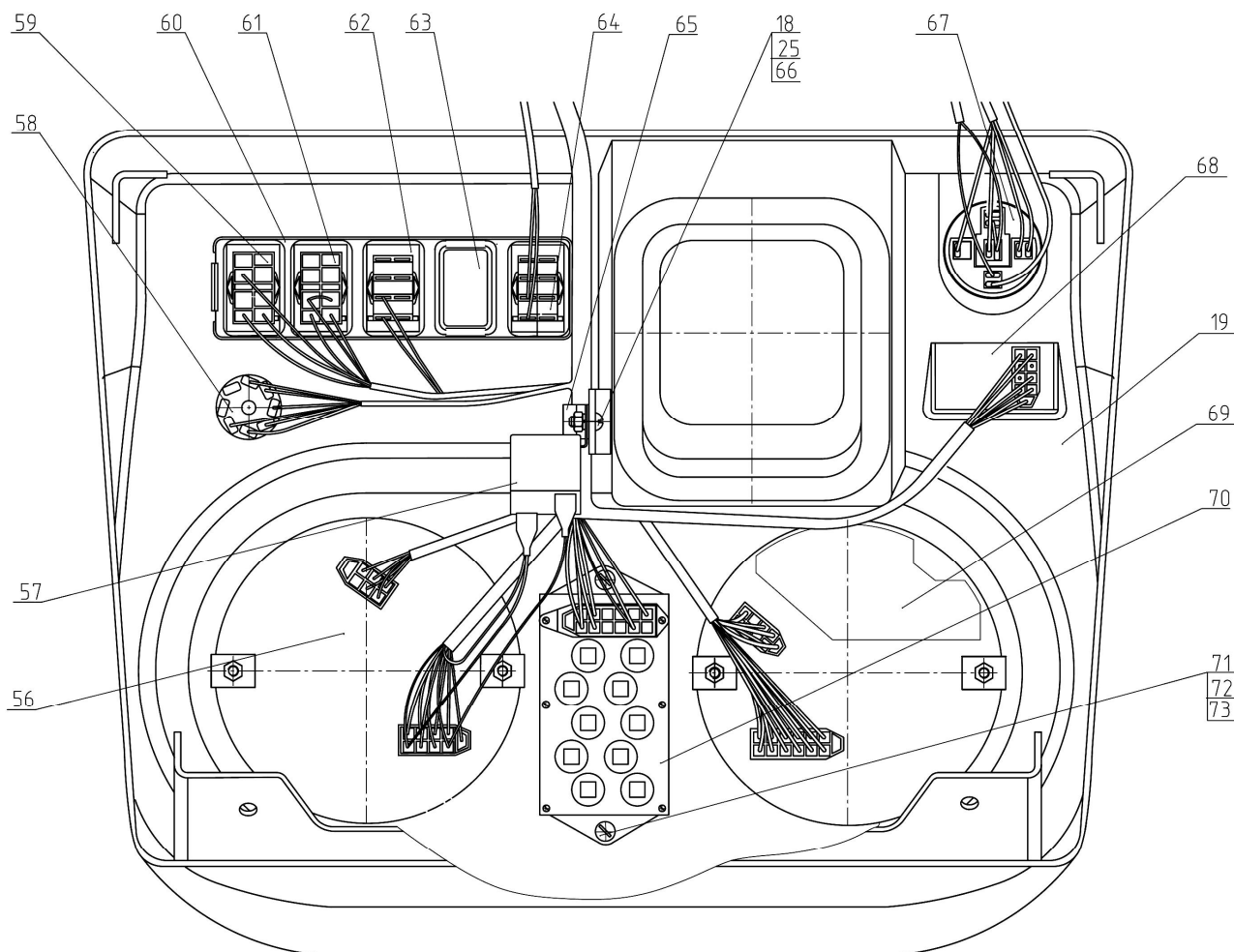


Fig.38.3 Dashboard

Group 38. Dashboard
Subgroup 3805. Dashboard

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
38.3	18	5T OST 37.001.115-75	5	Washer
	19	826-3805021	1	Board
	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	Light switch
	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 blocking
	68	3813.40	1	Control panel
	69	3801.25	1	Instrument board КП-5 CAN
	70	3803.20	1	Warning lights 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

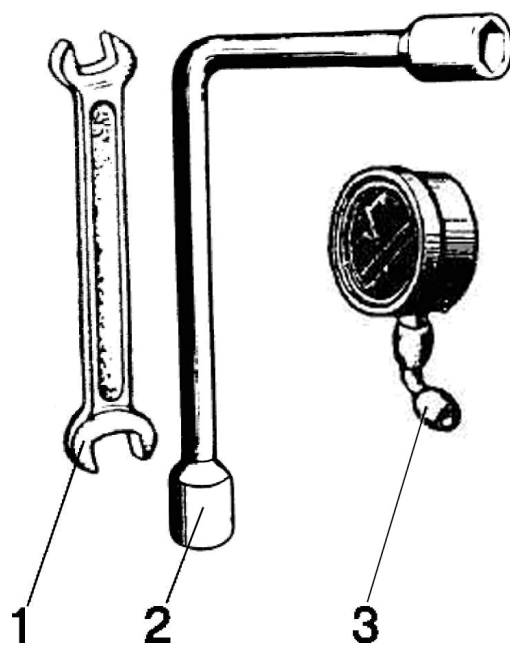


Fig.39.1. Operator tool

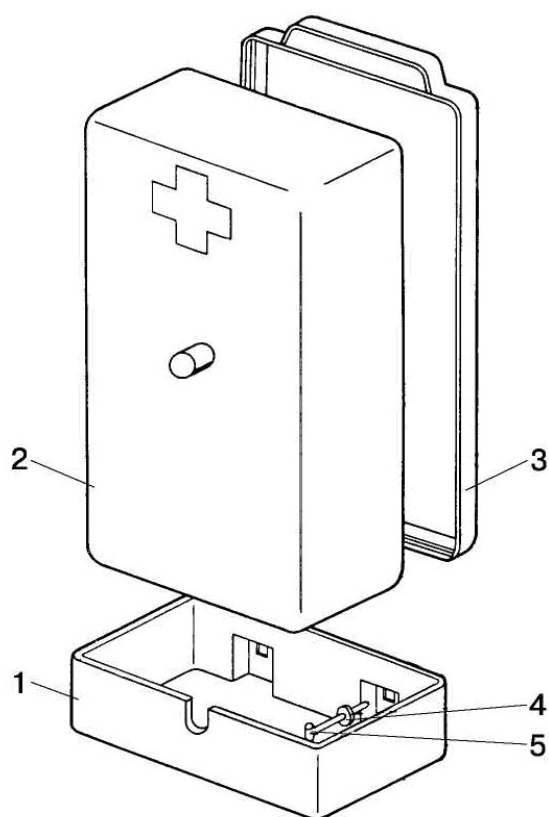


Fig.39.2. First aid kit

Group 39. Tools and accessories
Subgroup 3901. Operator tool

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

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
39.2	1	70-3912153-A	1	Bracket
	2	70-3912152	1	Housing
	3	70-3912151	1	Cover
	4	C 6.01.019 GOST 11371-78	3	Washer
	5	70-3723033	3	Joke

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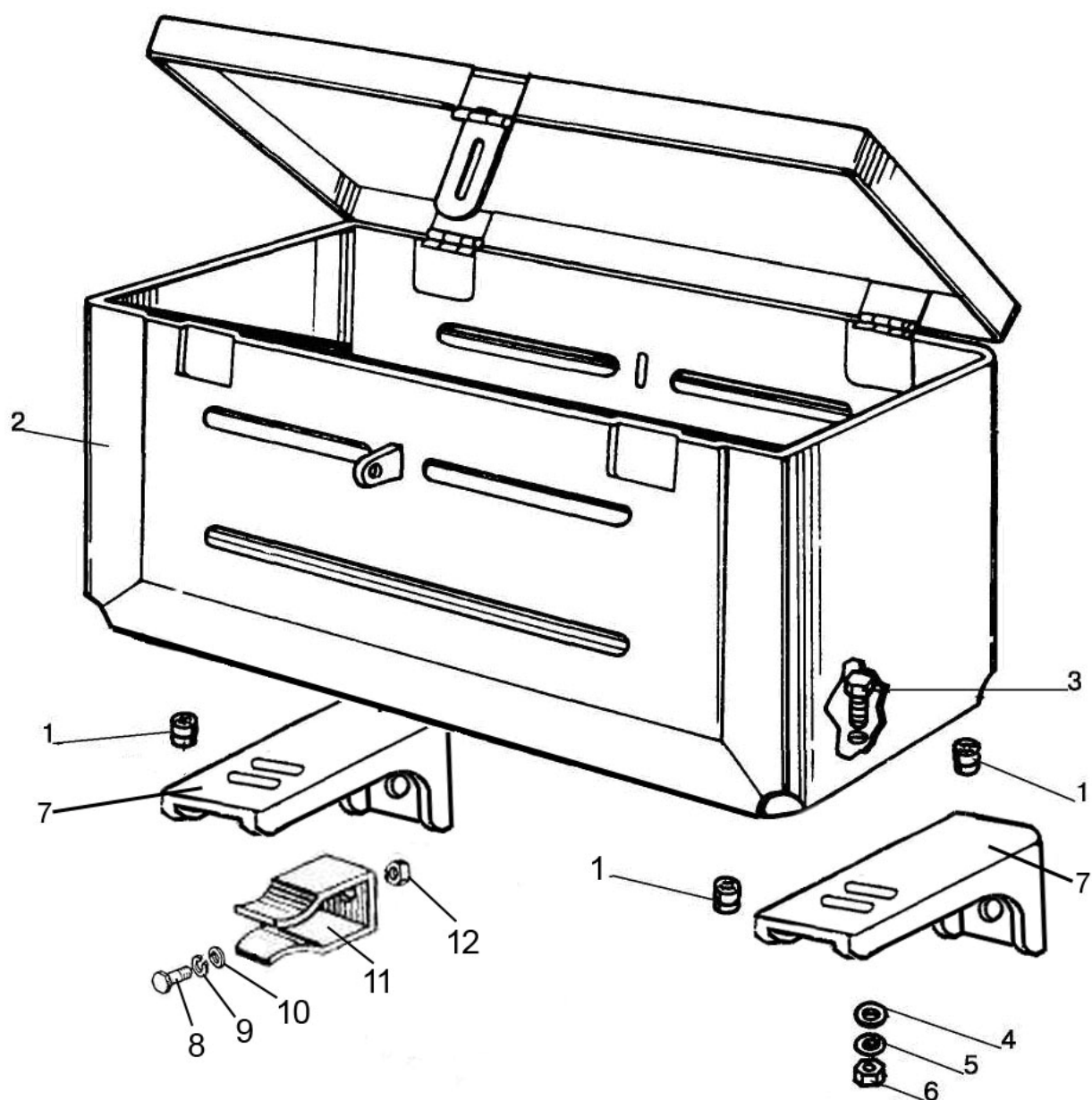


Fig.39.3. Tool box installation

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Name
39.3	1	50-8400018	4	Bumper
	2	70-3919110	1	Box
	3	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	4	C 8.01.019 GOST 6958-78	2	Washer
	5	8T OST 37.001.115-75	2	Washer
	6	M8-6H.6.019 GOST 5915-70	2	Nut
	7	80-3919106	2	Bracket
	8	M16-6gx40.88.35.019	2	Bolt
	9	16 OT OST 37.001.115-75	2	Washer
	10	C 16.01.019 GOST 6958-78	2	Washer
	11	50-3913214	2	Clamp
	12	M16-6H.6.019 GOST 5915-70	1	Nut

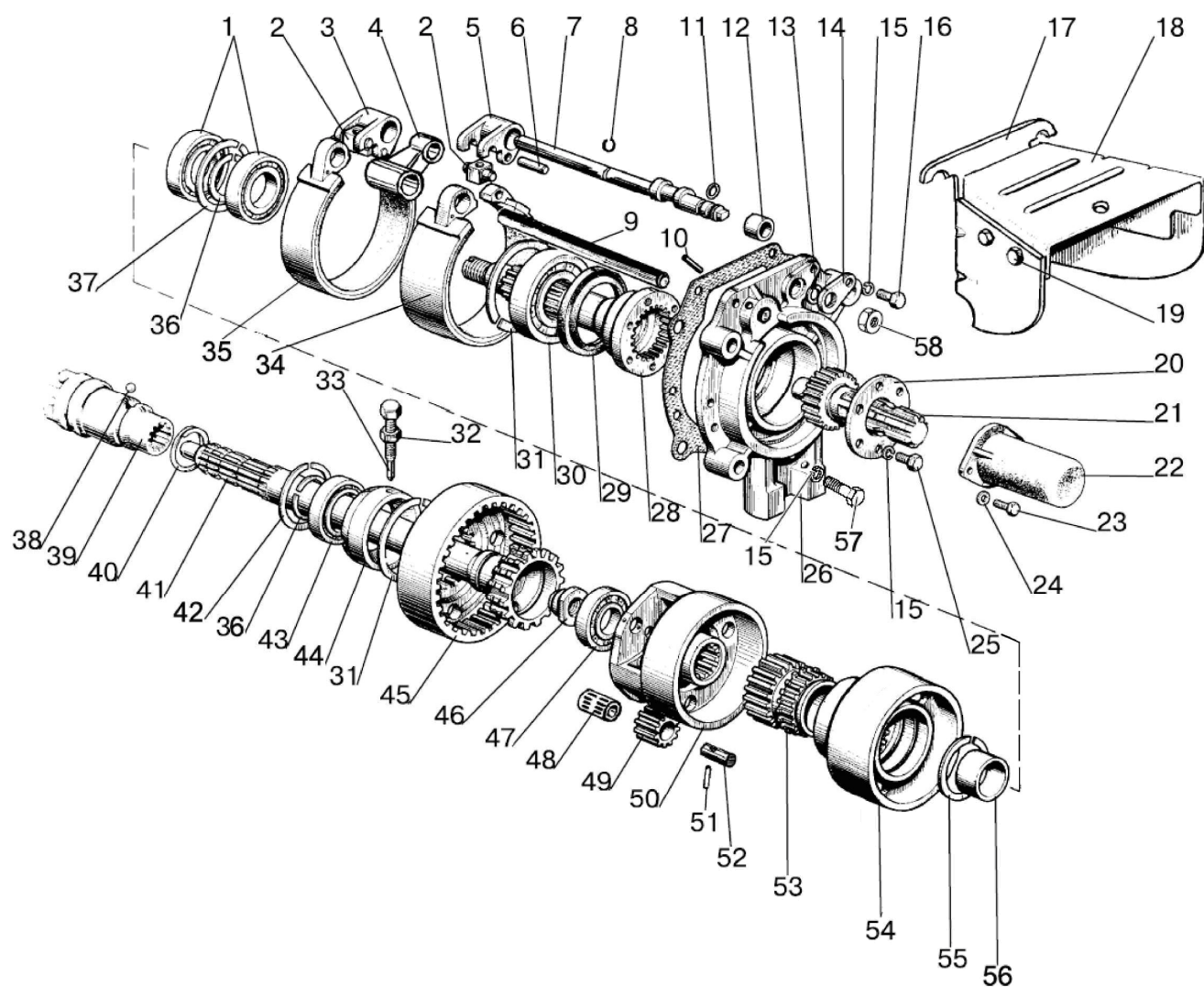


Fig.42.1. Rear power-take off shaft

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

Fig.No	Pos.No	Designation	Q-ty	Name
42.1		85-4202010	1	Rear power-take off shaft
		85-4202020	1	Cover (1-16,20,21,25-31,34-37,46-56)
		70-4202030-A	1	Crown gear (31,36, 38-45)
	1	209A GOST 8338-75	2	Bearing
	2	50-4202078	2	Pin
	3	50-4202074	1	Lever
	4	50-4202058	1	Bracket
	5	85-4202074	1	Lever
	6	ШЛК 8x36	2	Pin
	7	80-4202076	1	Shaft
	8	54.38.619	1	Ring
	9	70-4202072-Б	1	Axis
	10	A.8x20.65Г Chemical.Phosphate.Oil im- pregnated GOST 14229-93	1	Pin
	11	014-018-25-2-2 GOST 18829-73/9833-73	1	Ring
	12	80-4202082	1	Bushing
	13	C18 GOST 13940-86	1	Ring
	14	85-4202079	1	Plate
	15	10 OT OST 37.001.115-75	12	Washer
	16	M10-6gx40.88.35.019 GOST 7796-70	1	Bolt
	17	Φ70-4202095	1	Casing
	18	Φ70-4202092	1	Cover
	19	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
		M8-6H.6.019 GOST 5915-70	4	Nut
		8T OST 37.001.115-75	4	Washer
		C 8.01.019 GOST 11371-78	4	Washer
	20	80-4202081-A	1	Plate
	21	80-4202019-Б	1	End extension (8 splines)
		80-4202019-Б-01	1	End extension (6 splines) (upon re- quest)
		80-4202019-Б-02	1	End extension (21 splines) (upon re- quest)
	22	50-4202065-A	1	Cap
	23	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	24	8T OST 37.001.115-75	2	Washer
	25	M10-6gx18.88.35.019 GOST 7796-70	6	Bolt
	26	80-4202042-Б	1	Cover
	27	50-4202092A	1	Gasket
	28	80-4202017-Б	1	Shaft
	29	2.2-80x105-1 GOST 8752-79/ OST 3805146-78	1	Collar
	30	60310A GOST 7242-81	1	Bearing
	31	2C110 GOST 13941-86	2	Ring
	32	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	33	50-4202068	1	Adjusting screw
	34	85-4202100-01 or	1	Band with lining 85-4202057 (ТИИР 430) or band with lining 85-4202057-A7 (ITB 2842)
		85-4202100-02		
	35	85-4202100	1	Band with lining 85-4202056 (ТИИР 430)
	36	2C50 GOST 13940-86	2	Ring
	37	2C85 GOST 13941-86	1	Ring
	38	7,938-100 GOST 3722-81	1	Ball
	39	50-4202046-Б	1	Shift collar
	40	A61.03.002	1	Ring

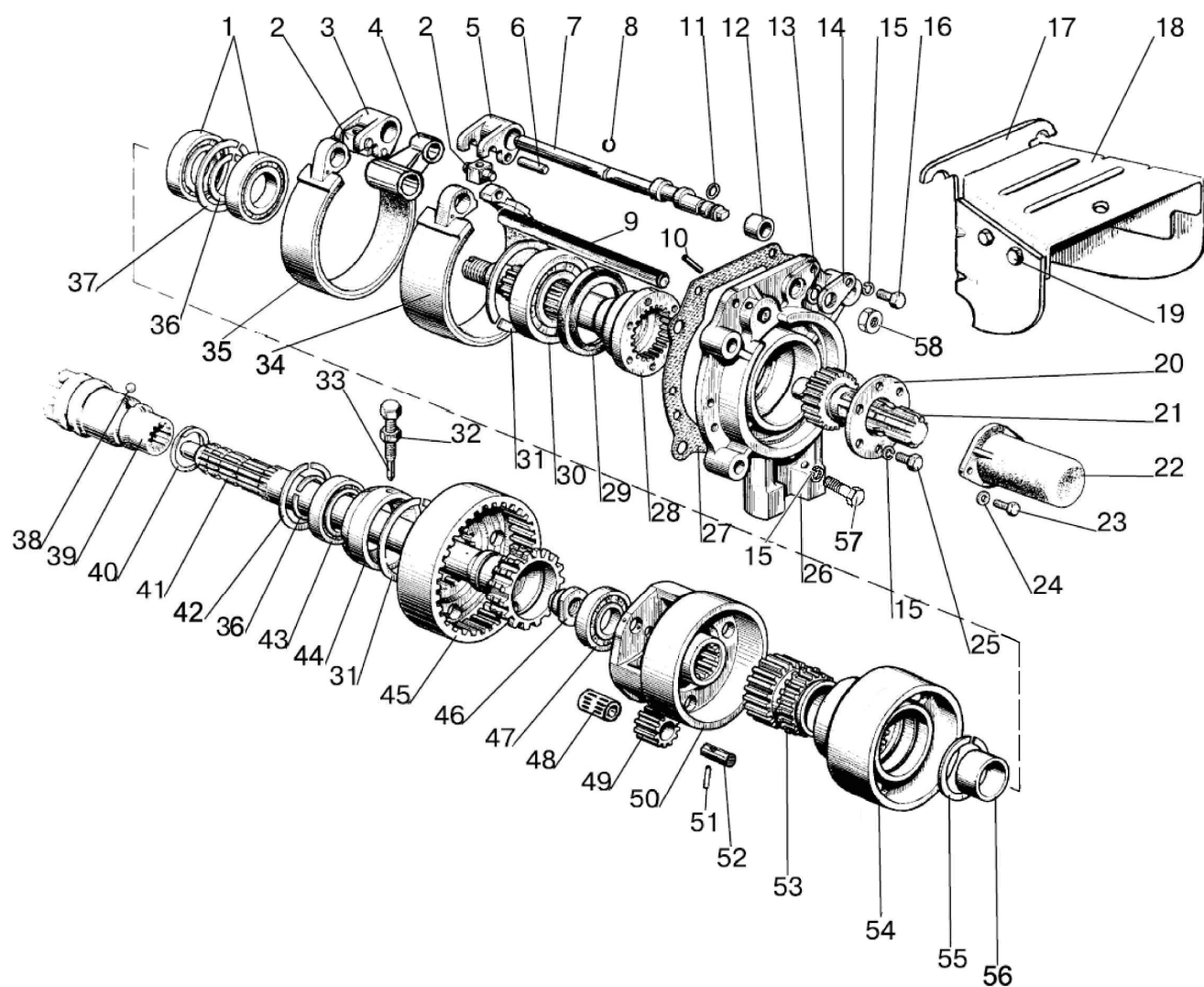


Fig.42.1. Rear power-take off shaft

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

Fig.No	Pos.No	Designation	Q-ty	Name
42.1	41	70-4202044-B	1	Shaft
	42	2C90 GOST 13941-86	1	Ring
	43	210 AYШ1 GOST8338-75	1	Bearing
	44	50-4702066-A	1	Cage
	45	70-4202043	1	Crown gear
	46	70-4202083-A	1	Nut
	47	208A GOST 8338-75	1	Bearing
	48	KK20x26x34E GOST 24310-80	3	Bearing
	49	70-4202024	3	Satellite gear
	40	85-4202065	1	Pinion cage
	51	70-4202431	3	Pin
	52	70-4202026	3	Satellite gear axis
	53	70-4202032	1	Sun gear
	54	85-4202033	1	Drum
	55	2C68 GOST 13940-86	1	Ring
	56	70-4202077	1	Bushing
	57	M10-6gx35.88.35.019 GOST 7796-70	5	Bolt
	58	M16x1,5-6H.6.019 GOST 5915-70	4	Nut
	59	16 OT OST 37.001.115-75	4	Washer
	60	C 16.01.019 GOST 6958-78	2	Washer

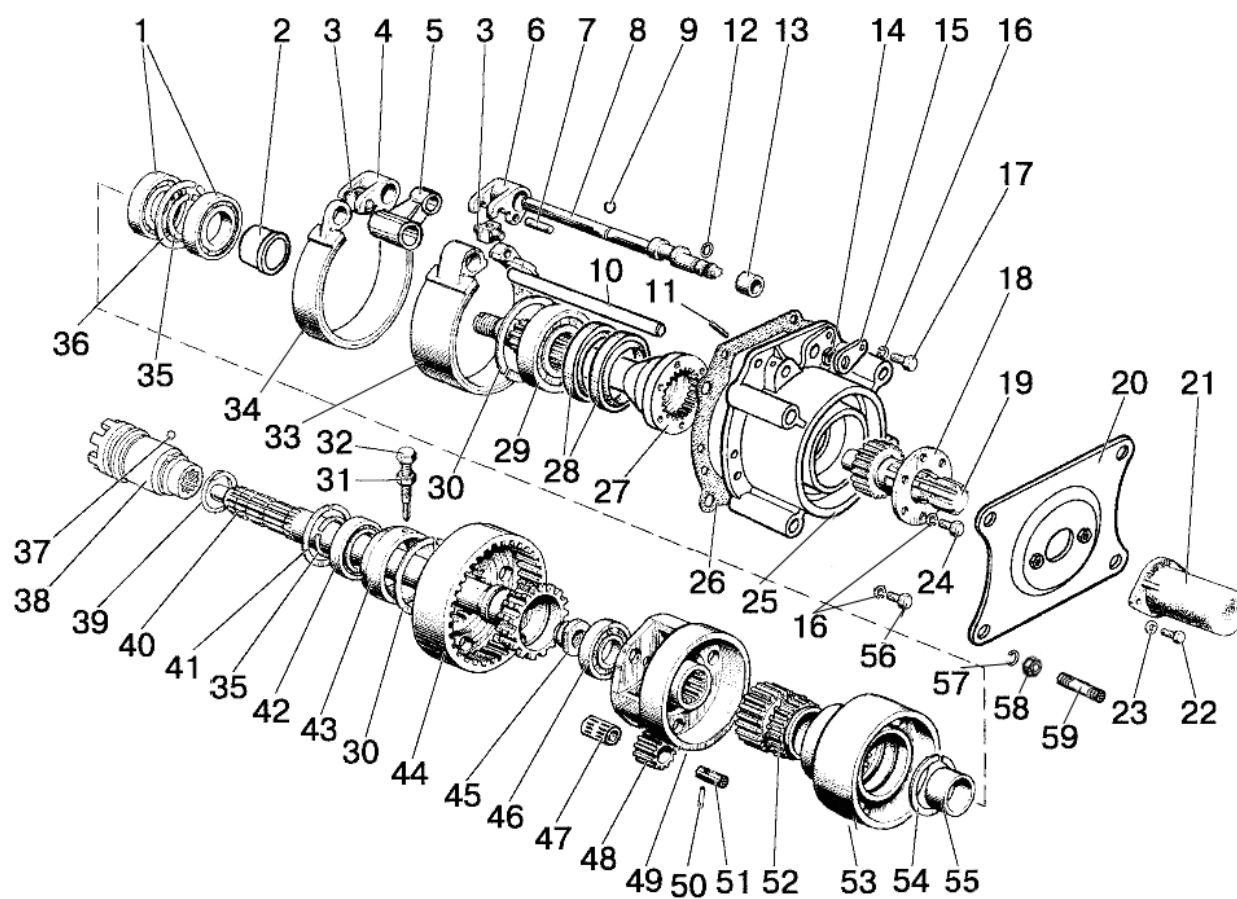


Fig.42.2. Rear power-take off shaft

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
42.2		1221-4202010-A	1	Rear power-take off shaft
		1221-4202020-A	1	Cover (1-16, 20, 21, 25-31, 35-37, 47-56)
		70-4202030-A	1	Crown gear (30,35,37-44)
	1	209A GOST 8338-75	2	Bearing
	2	1221-4202077	1	Bushing
	3	50-4202078	2	Pin
	4	50-4202074	1	Lever
	5	50-4202058	1	Bracket
	6	85-4202074	1	Lever
	7	ШЦК 8x36	2	Pin
	8	80-4202076	1	Shaft
	9	54.38.619	1	Ring
	10	70-4202072-B	1	Axis
	11	A.8x20.65Г	1	Pin
	12	014-018-25-2-2 GOST 18829-73/9833-73	1	Ring
	13	80-4202082	1	Bushing
	14	C18 GOST 13940-86	1	Ring
	15	85-4202079	1	Plate
	16	10 OT OST 37.001.115-75	12	Washer
	17	M10-6gx40.88.35.019 GOST 7796-70	1	Bolt
	18	80-4202081-A	1	Plate
	19	80-4202019-B	1	End extension (with 8 splines)
		80-4202019-B-01*	1	End extension (with 6 splines)
		80-4202019-B-02*	1	End extension (with 21 splines)
	20	1321-4202180	1	Plate
	21	50-4202065-A	1	Cap
	22	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	23	8T OST 37.001.115-75	2	Washer
	24	M10-6gx18.88.35.019 GOST 7796-70	6	Bolt
	25	1221-4202042	1	Cover
	26	50-4202092-A	1	Gasket
	27	1221-4202017	1	Shaft
	28	2.2-80x105-1 GOST 8752-79/OST 3805146-78	2	Collar
	29	60310A GOST 7242-81	1	Bearing
	30	2C110 GOST 13941-86	1	Ring
	31	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	32	50-4202130	1	Screw
	33	85-4202100-01 or	1	Band with lining 85-4202057 (ТИИР 430)
		85-4202100-02		Band with lining 85-4202057-A7 (ITB 2842)
	34	85-4202100	1	Band with lining 85-4202056 (ТИИР 430)
	35	2C50 GOST 13940-86	2	Ring
	36	2C85 GOST 13941-86	1	Ring
	37	7,938-100 GOST 3722-81	1	Ball
	38	50-4202046-B	1	Shift collar
	39	A61.03.002	1	Ring
	40	70-4202044-B	1	Shaft
	41	2C90 GOST 13941-86	1	Ring
	42	210 АУШ1 GOST8338-75	1	Bearing
	43	50-4202066-A	1	Cage
	44	70-4202043	1	Crown gear
	45	70-4202083-A	1	Nut

* Upon request

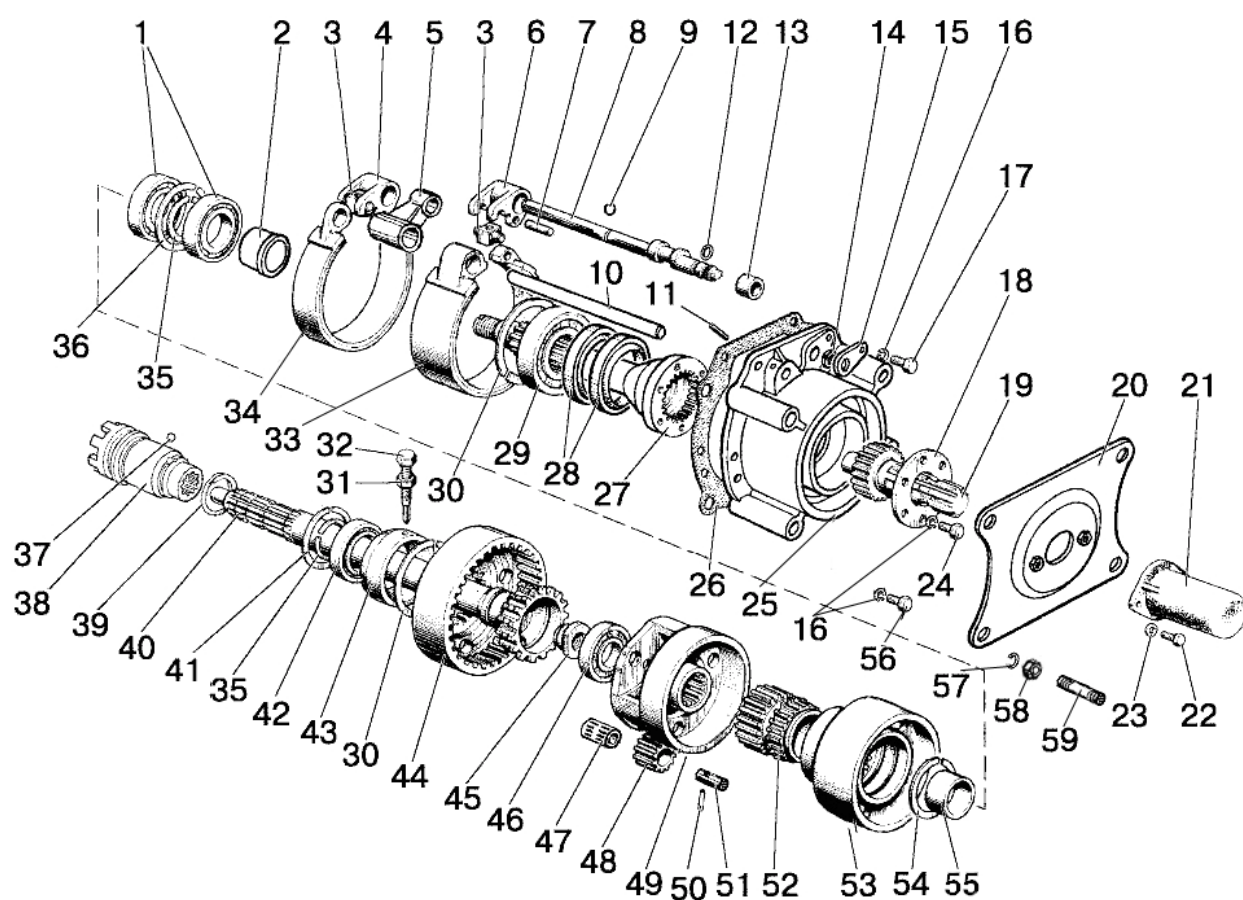


Fig.42.2. Rear power-take off shaft

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

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
42.2	46	208A GOST 8338-75	1	Bearing
	47	KK20x26x34E GOST 24310-80	3	Bearing
	48	70-4202024	3	Satellite gear
	49	85-4202065	1	Pinion cage
	50	70-4202431	3	Pin
	51	70-4202026	3	Satellite gear axis
	52	70-4202032	1	Sun gear
	53	85-4202033	1	Drum
	54	2C68 GOST 13940-86	1	Ring
	55	70-4202077	1	Bushing
	56	M10-6gx50.88.35.019 GOST 7795-70	5	Bolt
	57	16 OT OST 37.001.115-75	4	Washer
	58	M16x1,5-6H.6.019 GOST 5915-70	4	Nut
	59	1221-4202028	4	Stud

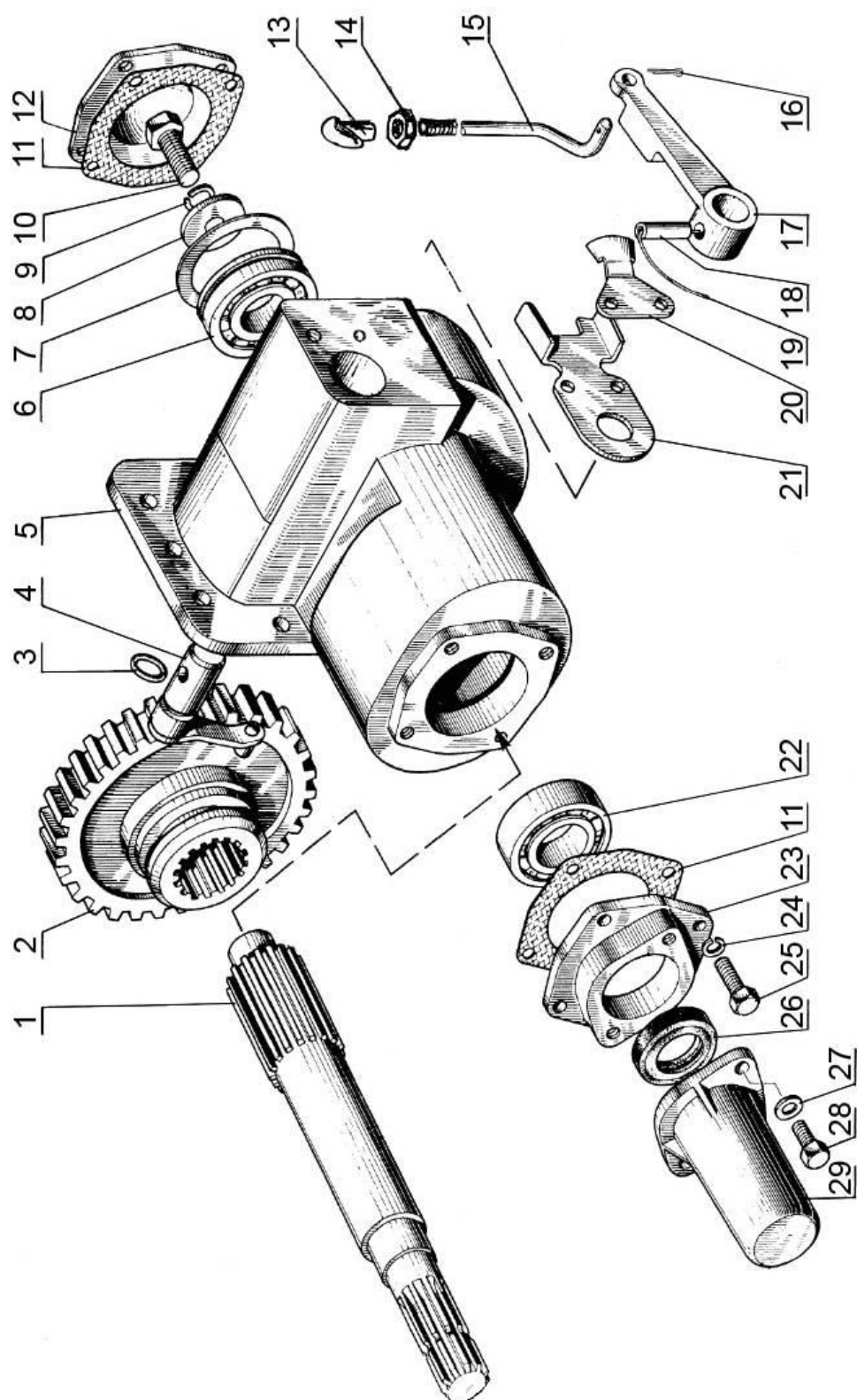


Fig.42.3. Side PTO shaft

**Group 42. Power take-off
Subgroup 4204. Side PTO shaft**

Fig.No	Pos.No	Designation	Q-ty	Name
42.3		50-4204010	1	Side PTO shaft with end extension with 8 splines (1-28)
	1	50-4204022	1	Side shaft with end extension with 8 splines
	2	Φ50-4204026	1	Gear (Z=37)
	3	020-025-30-1-4 GOST 18829-73/9833-73	1	Ring
	4	50-4204040-A	1	Shaft
	5	50-4204015-B	1	Housing
	6	208A GOST 8338-75	1	Bearing
	7	72 GOST 2893-82	1	Ring
	8	50-1601038	1	Washer
	9	12 OT OST 37.001.115-75	1	Washer
	10	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	11	50-1601091	2	Gasket
	12	50-1601089	1	Cover
	13	50-1310136-A	1	Handle
	14	M8-6H.6.019 GOST 5915-70	1	Nut
	15	80-4204042	1	Rod
	16	3,2x18.019 GOST 397-79	1	Forelock
	17	50-4204034	1	Control lever
	18	A.10x40.65Г Chemical.Phosphate.Oil impregnated GOST 14229-93	1	Pin
	19	1,6-O-C GOST 3282-74	1	Wire (L=200 mm)
	20	50-4204036-B	1	Plate
	21	50-4204038	1	Plate
	22	6-50306K GOST8338-75/2893-82	1	Bearing
	23	50-4204024	1	Cover
	24	8T OST 37.001.115-75	10	Washer
	25	M8-6gx25.88.35.019 GOST 7796-70	4	Bolt
	26	2.2-38x58-1 GOST 8752-79/ OST 3805146-78	1	Collar
	27	C 8.01.019 GOST 11371-78	2	Washer
	28	M8-6gx16.88.35.019 GOST 7796-70	8	Bolt
	29	50-4202065-A	1	Cap

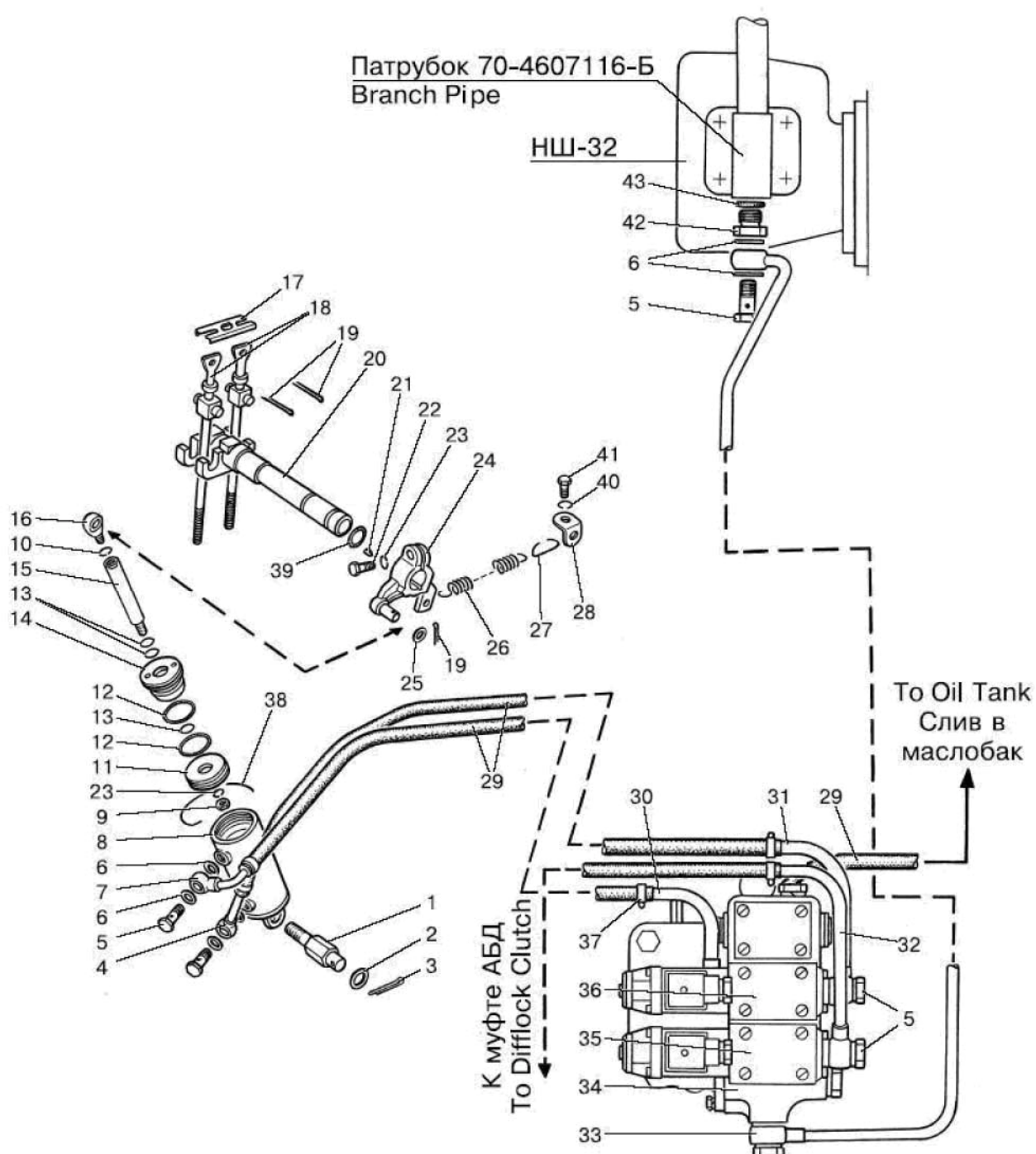


Fig.42.4. Control of rear PTO shaft (for tractors with hydraulic lift and lift drawbar hitch)

**Group 42. Power take-off
Subgroup 4216. Control of rear PTO shaft**

Fig.No	Pos.No	Designation	Q-ty	Name
42.4		920-4803150	1	Hydraulic drive of ADL and PTO
		920-4216010	1	Control of PTO shaft
		80-4216100	1	Cylinder (8-16,23,38)
	1	821-4216048	1	Bolt
	2	C 16.01.019 GOST 11371-78	1	Washer
	3	4x36.019 GOST 397-79	1	Forelock
	4	85-4216125	1	Oil pipeline
	5	Д18-051	8	Bolt
	6	Д18-055-A	16	O-ring
	7	85-4216130	1	Oil pipeline
	8	80-4216115	1	Housing
	9	M12-6H.6.019 GOST 5915-70	1	Nut
	10	10 OT OST 37.001.115-75	1	Washer
	11	80-4216118	1	Piston
	12	045-050-30-2-2 GOST 18829-73/9833-73	2	Ring
	13	15.54x2.62 DBS/AS MS 29513 GOST 18829-73/9833-73	3	Ring
	14	80-4216116	1	Front cover
	15	80-4216119	1	Push rod
	16	80-4216121	1	Tip
	17	80-4216039	1	Lock
	18	70-4216028	2	Screw
	19	3,2x18.019 GOST 397-79	3	Forelock
	20	50-4216070-Б	1	Shaft
	21	СШ-611	1	Key 6x11
	22	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	23	12 OT OST 37.001.115-75	2	Washer
	24	821-4216020	1	Lever
	25	C 12.01.019 GOST 11371-78	1	Washer
	26	50-1605152	1	Spring
	27	70-3514094	1	Hook
	28	80-1602116	1	Eye-loop
	29	1221-2412026	4	Hose
	30	822-4801190	1	Oil pipeline (PTO shaft)
	31	822-4801195	2	Oil pipeline (PTO shaft)
	32	923-4803165	1	Oil pipeline (ADL)
	33	920-4803155	1	Oil pipeline (pressure pipeline)
	34	822-4801180-Б-01	1	Hydraulic drive plate
	35	ПГ822-6/1.2 CE.B.574A.Г12.О1	1	Hydraulic distributor valve (ADL)
	36	ПГ822-6/1.2 CE.B.574A.Г12.О1	1	Hydraulic distributor valve (PTO shaft)
	37	"NORMA" TORRO 12-20/9-C6W	8	Clamp
	38	80-4216117	1	Pin
	39	025-030-30-1-4 GOST 18829-73/9833-73	1	Ring
	40	8T OST 37.001.115-75	1	Washer
	41	M8-6gx40.88.35.019 GOST 7795-70	1	Bolt
	42	1021-4803158	1	Adapter
	43	017-022-30-1-4 GOST 18829-73/9833-73	1	Ring

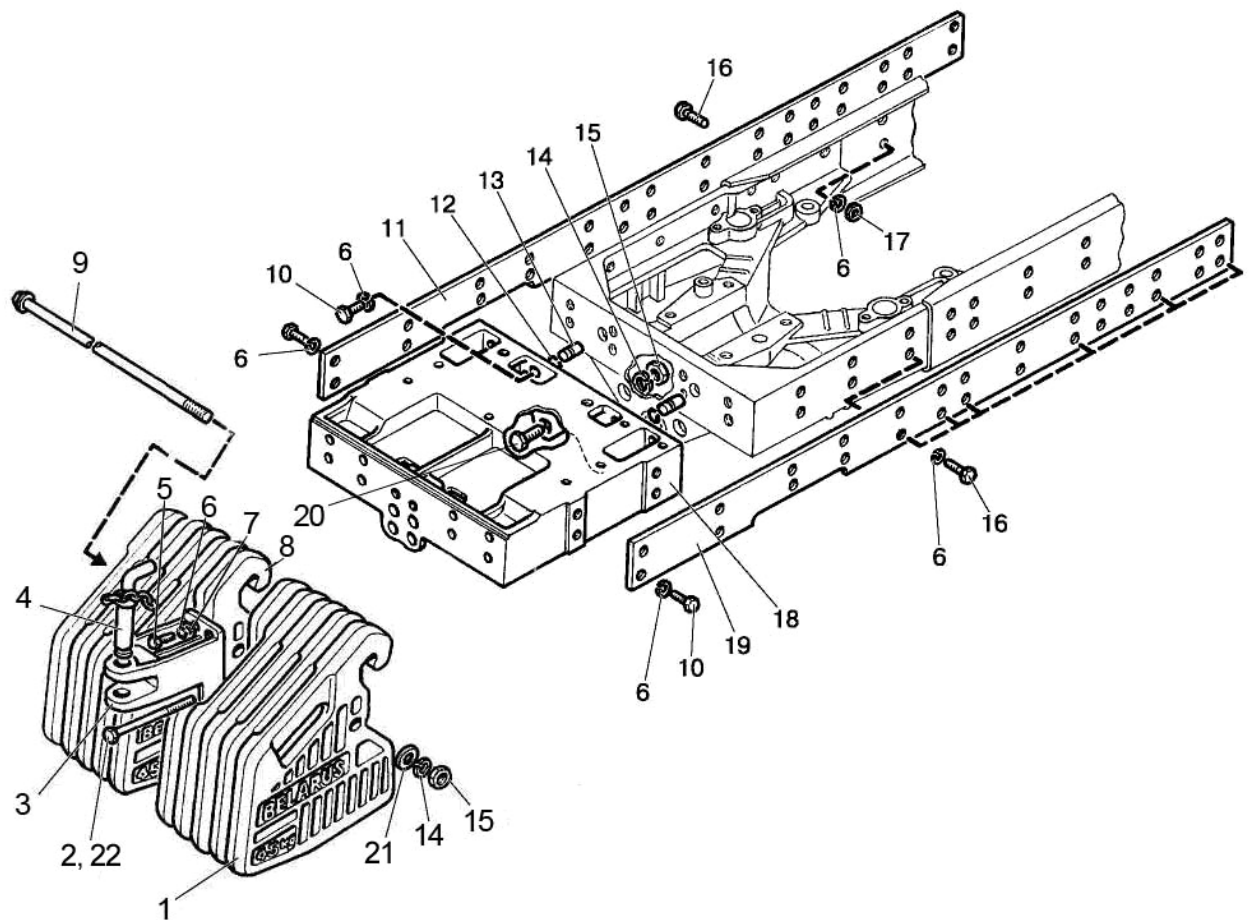


Fig.42.5. Ballast weight

Subgroup 4235. Ballast weight

Fig.No	Pos.No	Designation	Q-ty	Name
42.5	1	80-4235011-A	8	Weight
	2	1025-4235012	2	Bolt
	3	85-4235025-B	1	Ear
	4	70-4235030	1	King pin
	5	M16-6gx45.88.35.019 GOST 7796-70	2	Bolt
	6	16 OT OST 37.001.115-75	46	Washer
	7	C 16.01.019 GOST 11371-78	2	Washer
	8	1521-4235011-A	2	Weight
	9	1025-4235015-01	1	String
	10	M16-6gx32.88.35.019 GOST 7796-70	24	Bolt
	11	822-4235028	1	Strip
	12	54.38.619	2	O-ring
	13	50-4605027	2	Pin
	14	20 OT OST 37.001.115-75	3	Washer
	15	M20-6H.6.019 GOST 5915-70	3	Nut
	16	M16-6gx40.88.35.019 GOST 7796-70	20	Bolt
	17	M16-6H.6.019 GOST 5915-70	4	Nut
	18	923-4235016	1	Bracket
	19	822-4235028-01	1	Strip
	20	70-4605036-03	2	Bolt
	21	40-3502084	1	Washer
	22	M18-6H.6.019 GOST 5915-70	4	Nut

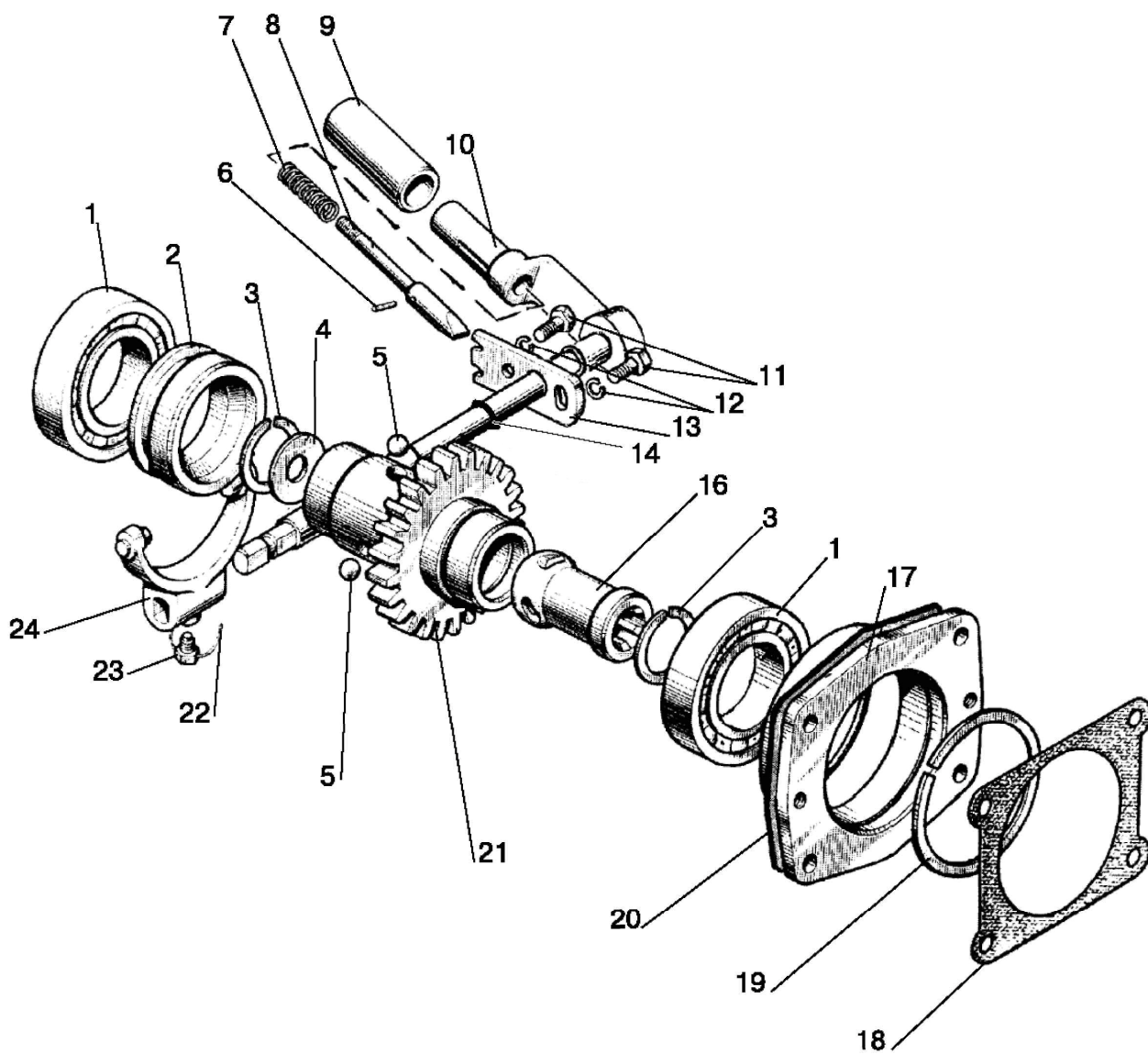


Fig.46.1 Pump drive

**Group 46. Hydraulic system
Subgroup 4604. Pump drive**

Fig.No	Pos.No	Designation	Q-ty	Name
46.1		80-4604010	1	Pump drive (1-5, 11-14, 16-24)
		36-1022070-B	1	Handle (6-10)
	1	210 AYШ1 GOST8338-75	2	Bearing
	2	85-4604017	1	Coupling
	3	C40 GOST 13943-86	2	Ring
	4	70-1108179	1	Washer
	5	11,112-100 GOST 3722-81	3	Ball
	6	4C ₃ x16	1	Pin
	7	36-1022074	1	Spring
	8	36-1022073	1	Detent
	9	36-1022072	1	Cage
	10	85-4604040	1	Shaft
	11	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	12	8T OST 37.001.115-75	2	Washer
	13	50-4604044	1	Plate
	14	013-017-25-1-4 GOST 18829-73/9833-73	1	Ring
	16	85-4604012	1	Bushing
	17	50-4604036-A	1	Cage
	18	36-1022054-A	1	Gasket
	19	2C90 GOST 13941-86	1	Ring
	20	70-4604037	1	Gasket
	21	80-4604032	1	Gear
	22	1,0-O-C GOST 3282-74 (150 mm)	1	Wire
	23	50-4604046	1	Bolt
	24	85-4604030	1	Fork

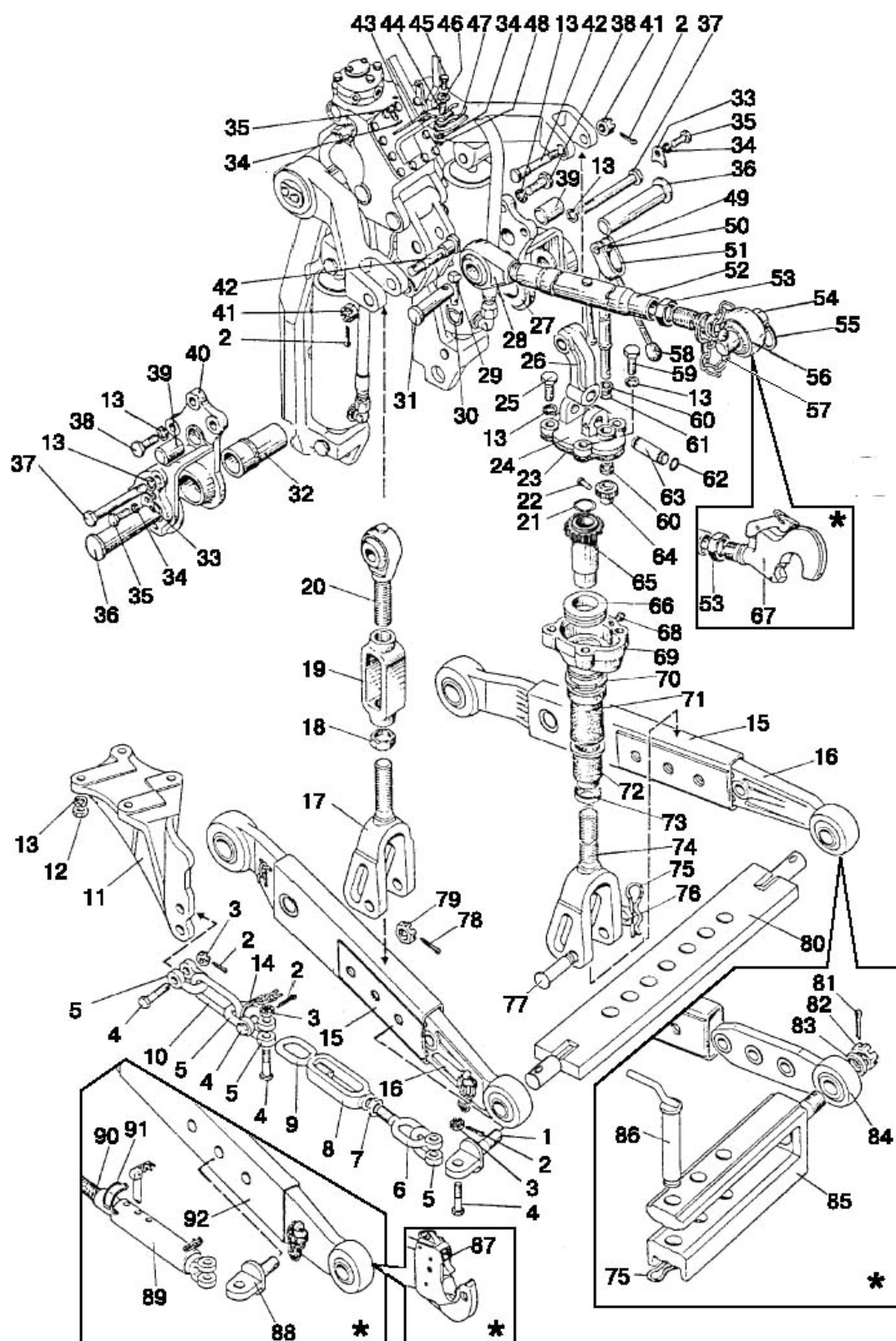


Fig.46.2. Mechanism of rear lift linkage

**Group 46. Hydraulic lift linkage
Subgroup 4605. Mechanism of rear lift linkage**

Fig.No	Pos.No	Designation	Q-ty	Name
46.2		822-4605010	1	Lift linkage (1-66,68-79)
		A61.03.000	1	Upper link (28,52-57) Pin Pos.54 Ø22 mm
		A61.03.000-01*	1	Upper link (28,52-57) Pin Pos.54 Ø25 mm
		80-4605690*	1	Upper link (28,52-56,67)
		1220-4605150-Б-01	1	Adjustable cross beam (13,21-26,49-51, 58-74)
		1220-4605610-01	1	Adjustable cross beam (for solid link)
		1220-4605012-Б	1	Cross beam (17-20)
		1220-4605612-01*	1	Screwed cross beam (for solid link)
		1220-4605030-Б-02	2	Link (1,15,16,78,79) b=38 mm
		1220-4605030-Б-04*	2	Link (1,15,16,78,79) b=45 mm
		1220-4605580	2	Buckle (6-9)
		822-4605085	1	Cross member (75,81-86)
		80-4605280	2	Telescopic stabilizer (89-91)
	1	1220-4605108-01	2	Ear
	2	3,2x25.019 GOST 397-79	8	Forelock
	3	M12-6H.04.019 GOST 5919-73	8	Nut
	4	50-4605086	8	Bolt
	5	A61.09.002	8	Clip
	6	1220-4605058	2	Screw
	7	M20-6H.04.019 GOST 5916-70	2	Nut
	8	A61.04.003-01	2	Buckle
	9	1220-4605058-01	2	Screw
	10	40-4605098	2	Ring
	11	80-4605091	1	Right bracket
		80-4605091-01	1	Left bracket
	12	M16x1,5-6H.6.019 GOST 5915-70	8	Nut
	13	16 OT OST 37.001.115-75	16	Washer
	14	H50-4605060	2	Chain with ring
	15	1220-4605050-Б-01	2	Link (with chain)
	16	1220-4605040	2	Link (hinge b=38 mm)
		1220-4605040-02*	2	Link (hinge b=45 mm)
	17	1220-4605200-Б	1	Fork
		1220-4605620-Б*	1	Fork (for solid link)
	18	142-4605424	1	Lock nut
	19	142-4605422	1	Buckle
	20	1220-4605075	1	Screw
	21	142-4605403	1	Retainer
	22	A61.01.005	1	Axis
	23	142-4605421	1	Gasket
	24	142-4605418-Б	1	Cover
	25	142-4605408	2	Bolt
	26	1220-4605668-Б	1	Clip
	27	1220-4605501	1	Right bracket
	28	A61.02.100-03	1	Screw
	29	A61.05.005	1	Chock
	30	A61.05.004	1	Ring
	31	A61.10.001-02	1	Pin
	32	1220-4605502	2	Bushing
	33	1220-4605504	2	Plate
	34	12 OT OST 37.001.115-75	4	Washer
	35	M12-6gx25.88.35.019 GOST 7796-70	4	Bolt
	36	1220-4605503	2	Pin
	37	70-2800016-01	2	Bolt

* upon request

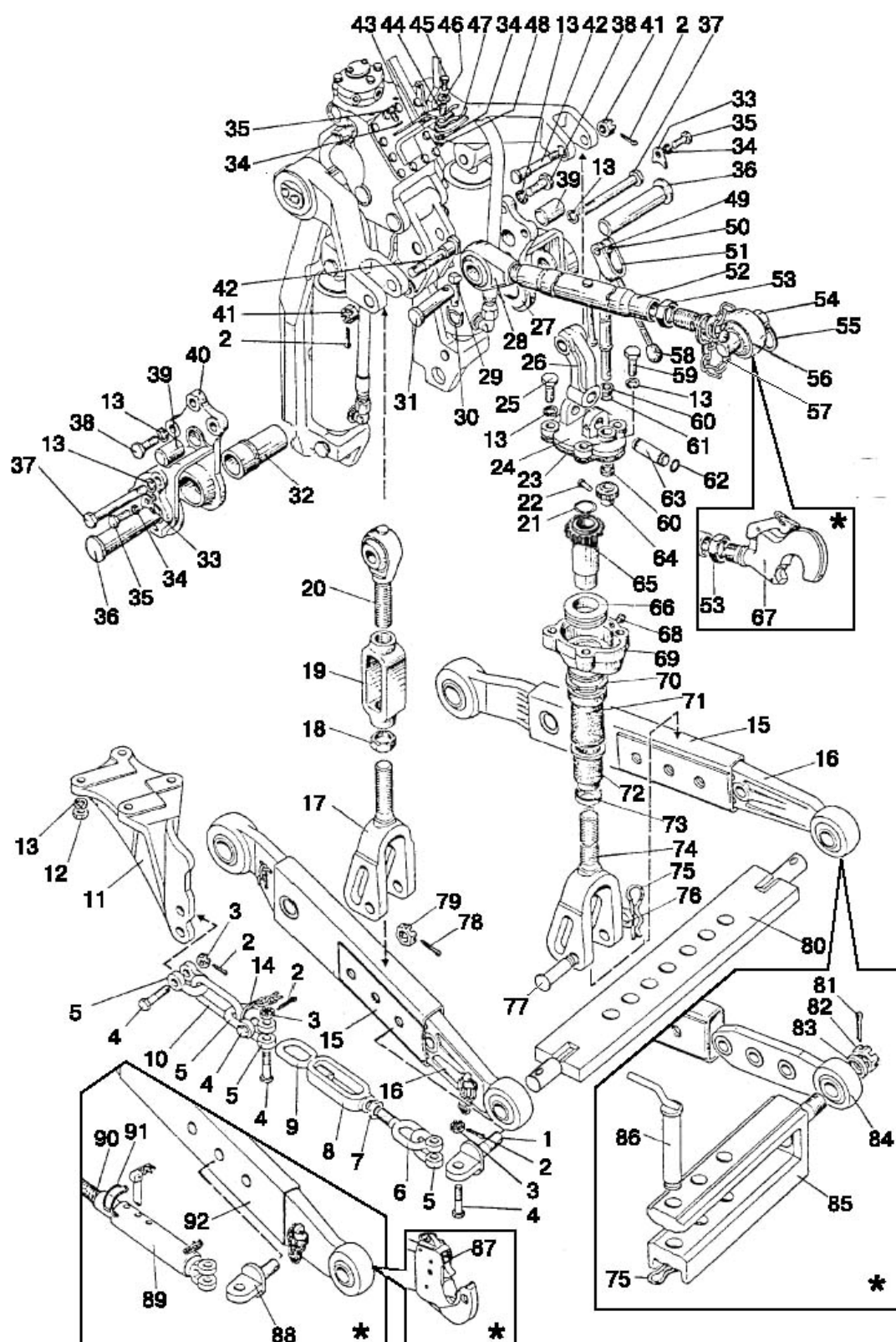


Fig.46.2. Mechanism of rear lift linkage

**Group 46. Hydraulic lift linkage
Subgroup 4605. Mechanism of rear lift linkage**

Fig. No	Pos.No	Designation	Q-ty	Name
46.2	38	1220-4605506	6	Bolt
	39	1220-4605507	2	Pin
	40	1220-4605501-01	1	Left bracket
	41	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	42	142-4605076	2	Pin
	43	1220-4605675	1	Bracket
	44	50-4605069	1	Bushing
	45	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	46	C 12.01.019 GOST 11371-78	1	Washer
	47	A61.07.002	1	Spring
	48	M12-6H.6.019 GOST 5915-70	1	Nut
	49	A61.01.016	1	Axis
	50	A.61.01.600	1	Shaft
	51	A61.01.400	1	Fork
	52	A61.03.100	1	Pipe
	53	A61.02.003	1	Lock nut
	54	A61.03.001-02	1	Pin Ø22 mm
		A61.03.001-01*	1	Pin Ø25 mm
	55	A61.03.002	2	Ring
	56	A61.02.100-04	1	Screw with the opening in the hinge Ø22 mm
		A61.02.100-05*	1	Screw with the opening in the hinge Ø25 mm
	57	A61.05.100	1	Chock (9 links)
	58	A61.01.014	1	Handle
	59	M16-6gx40.88.35.019 GOST 7796-70	2	Bolt
	60	A61.01.017	2	Bushing
	61	016-021-30-2-4 GOST 18829-73/9833-73	1	Ring
	62	142-4605431	2	Ring
	63	142-4605404-B	1	Pin
	64	142-4605413	1	Gear
	65	142-4605425	1	Pipe
	66	8210 GOST 7872-89	1	Bearing
	67	80-4605685*	1	Grip
	68	1.3.LI9.xp GOST 19853-74	1	Oiler
	69	142-4605415	1	Housing
	70	142-4605402	1	Bushing
	71	142-4605407	1	Pipe
	72	142-4605406	1	Cap
	73	142-4605401	1	Retainer
	74	1220-4605100-B	1	Fork
		1220-4605615	1	Fork (for solid link)
	75	A61.07.001	3	Forelock
	76	50-3503071	2	Washer
	77	1220-4605084	2	Pin L=130 mm
		1220-4605084-01	2	Pin L=100 mm (for solid link)
	78	5x36.019 GOST 397-79	2	Forelock
	79	70-4605316	2	Nut
	80	1220-4605025	1	Cross member
	81	5x45.019 GOST 397-79*	2	Forelock
	82	A04.02.020*	2	Nut
	83	80-4605068*	2	Washer
	84	822-4605060*	2	Tip
	85	822-4605065*	1	Cross member
	86	822-4605070*	1	King pin

* upon request

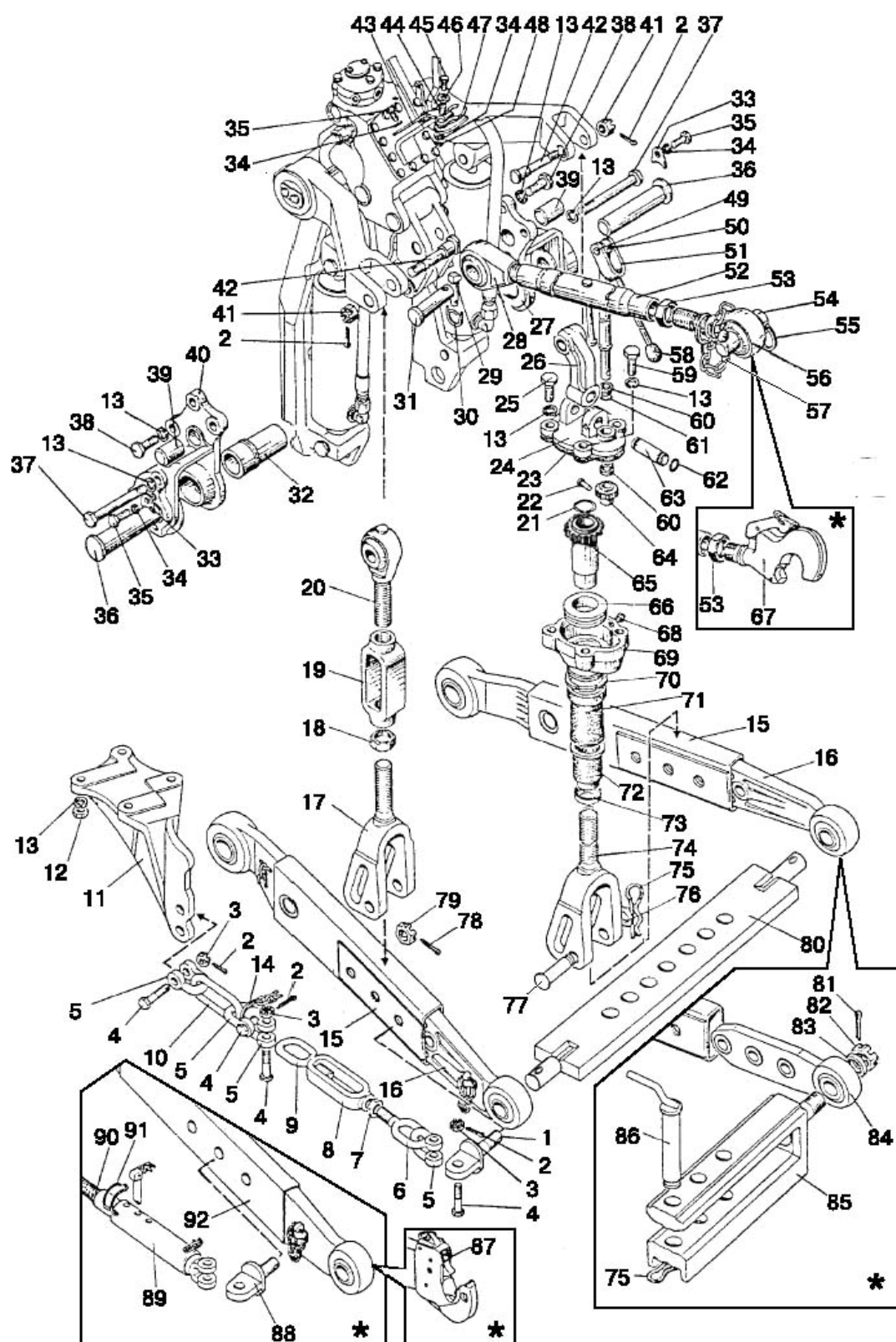


Fig.46.2. Mechanism of rear lift linkage

**Group 46. Hydraulic lift linkage
Subgroup 4605. Mechanism of rear lift linkage**

Fig.No	Pos.No	Designation	Q-ty	Name
46.2	87	1220-4605630-04*	1	Right link without chain
		1220-4605630-05*	1	Right link with chain
		1220-4605635-04*	1	Left link without chain
		1220-4605635-05*	1	Left link with chain
	88	1220-4605108*	2	Ear
	89	80-4605285-Б*	2	Pipe
	90	80-4605284*	2	Screw
	91	80-4605292*	2	Latch
	92	1220-4605530-04*	2	Link without chain b=38 mm
		1220-4605530-05*	2	Link with chain b=38 mm
		1220-4605530-06*	2	Link without chain b=45 mm
		1220-4605530-07*	2	Link with chain b=45 mm

* Upon request

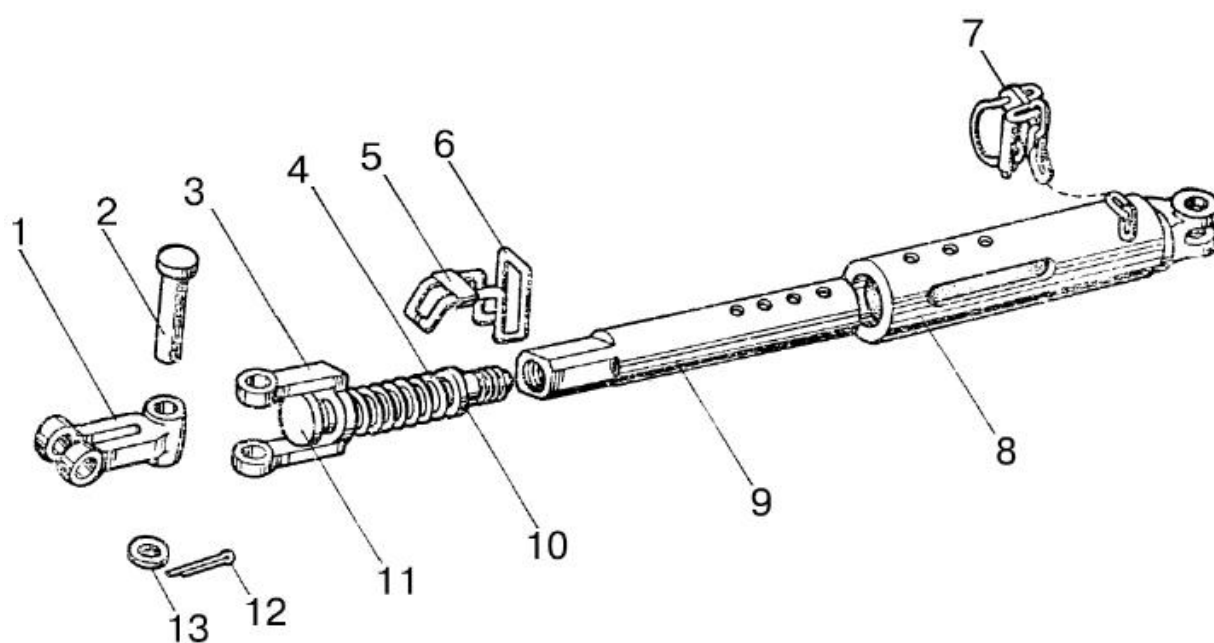


Fig. 46.3. Telescopic stabilizer

Group 46. Hydraulic lift linkage
Subgroup 4605. Telescopic stabilizer

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
46.3		80-4605280	2	Telescopic stabilizer (1-13)
	1	80-4605281	2	Fork
	2	80-4605283 or 16x80 OST 37.001.163-75	2	Axis (L=75 mm)
			2	Pin
	3	80-4605282	2	Clip
	4	50-4609018	2	Spring
	5	80-4605293	2	Plate
	6	80-4605289	2	Handle
	7	80-4605290	2	Chock
	8	80-4605285-B	2	Pipe
	9	80-4605288-B	2	Slide
	10	C 12.01.019 GOST 11371-78	2	Washer
	11	80-4605284	2	Screw
	12	3,2x25.019 GOST 397-79	2	Forelock
	13	16 OT OST 37.001.115-75	2	Washer

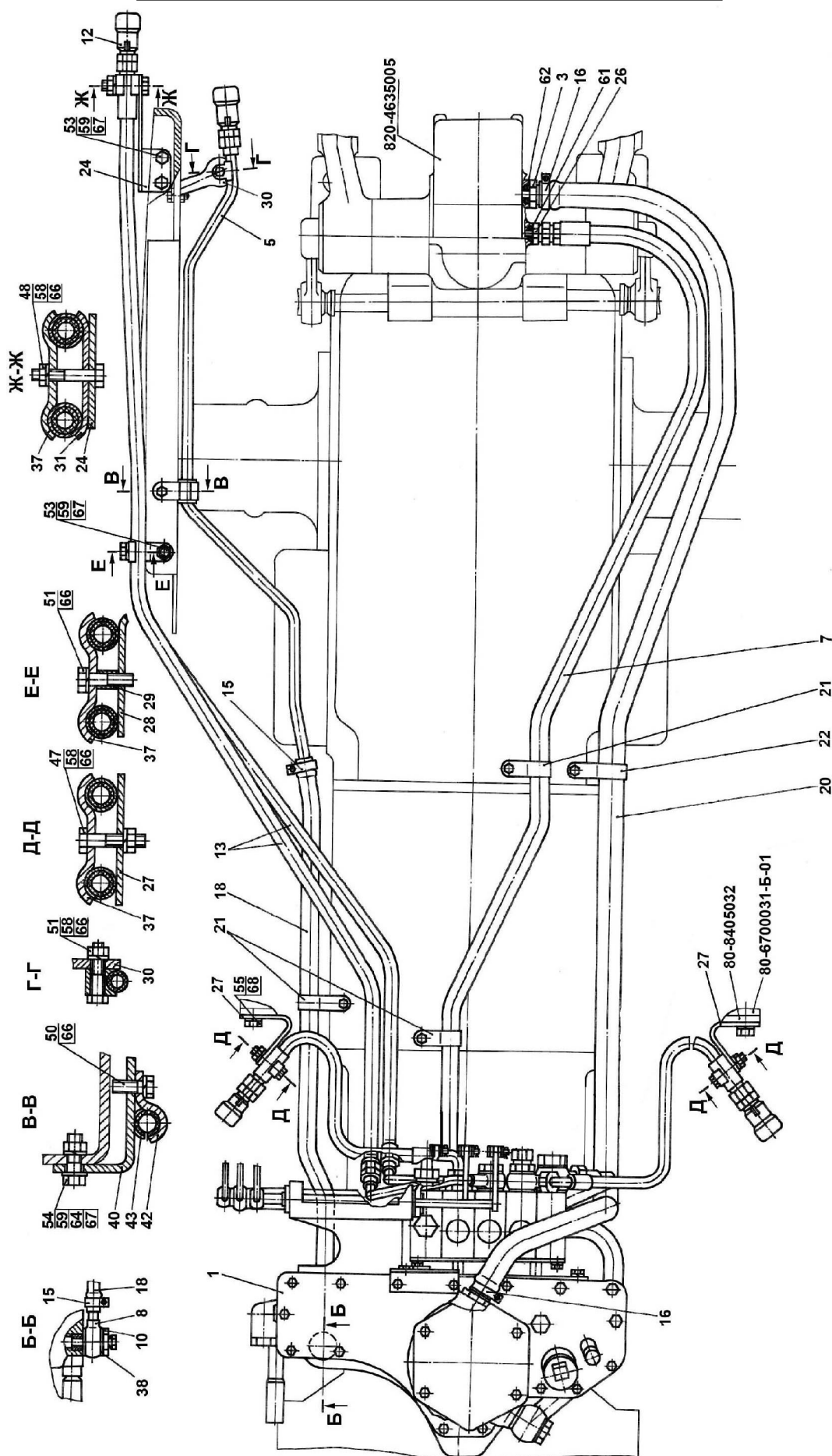


Fig.46.4. Hydraulic system P1221-4600010-02

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

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
46.4		P1221-4600010-02	1	Hydraulic system
	1	P1221-4600015-02	1	Hydraulic system housing
	3	85-4607034	1	Adapter
	5	K1221-4607125	1	Pipe
	6	680-4607140-03	2	High-pressure hose $\phi 10 \times 1$ armoured
	7	952-4607140-04	1	High-pressure hose $\phi 16 \times 2$ armoured
	8	C80-4607380	1	Pipe
	10	80-4607455	1	Bolt
	12	M036.50B.10	5	Left housing
	13	П100-4607140-01	2	High-pressure hose $\phi 10 \times 1$ armoured
	15	XC-21	2	Clamp
	16	XC-31	2	Clamp
	18	K1221-4607011	1	Hose
	20	П80-4607012	1	Hose
	21	П80-4607013	3	Clamp
	22	П80-4607013-01	1	Clamp
	24	M80-4607014	2	Bracket
	26	П80-4607016	1	Adapter
	27	M80-4607017	2	Bracket
	28	M80-4607018	2	Bracket
	29	E1021-4607044	1	Bushing
	30	85-4607431	1	Bracket
	31	70-4607156	2	Plate
	37	40-4607029-A	5	Plate
	38	40-4607038-A-01 or PM 1/2	2	Washer
	40	1321-3407022	1	Bracket
	42	70-3407163-01	1	Jokey
	43	70-3506027	1	Bushing
	47	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	48	M8-6gx45.88.35.019 GOST 7795-70	2	Bolt
	50	M8-6gx25.88.35.019 GOST 7796-70	1	Bolt
	51	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	53	M10-6gx25.88.35.019 GOST 7796-70	5	Bolt
	54	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	55	M12-6gx30.88.35.019 GOST 7795-70	1	Bolt
	58	M8-6H.6.019 GOST 5915-70	5	Nut
	59	M10-6H.6.019 GOST 5915-70	6	Nut
	61	021-024-19-2-2 GOST 18829-73/9833-73	1	Ring
	62	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	64	C 10.01.019 GOST 11371-78	1	Washer
	66	8T OST 37.001.115-75	7	Washer
	67	10 OT OST 37.001.115-75	6	Washer
	68	12 OT OST 37.001.115-75	1	Washer
		M036.50B.20	6	Right housing (delivered with the tractor)

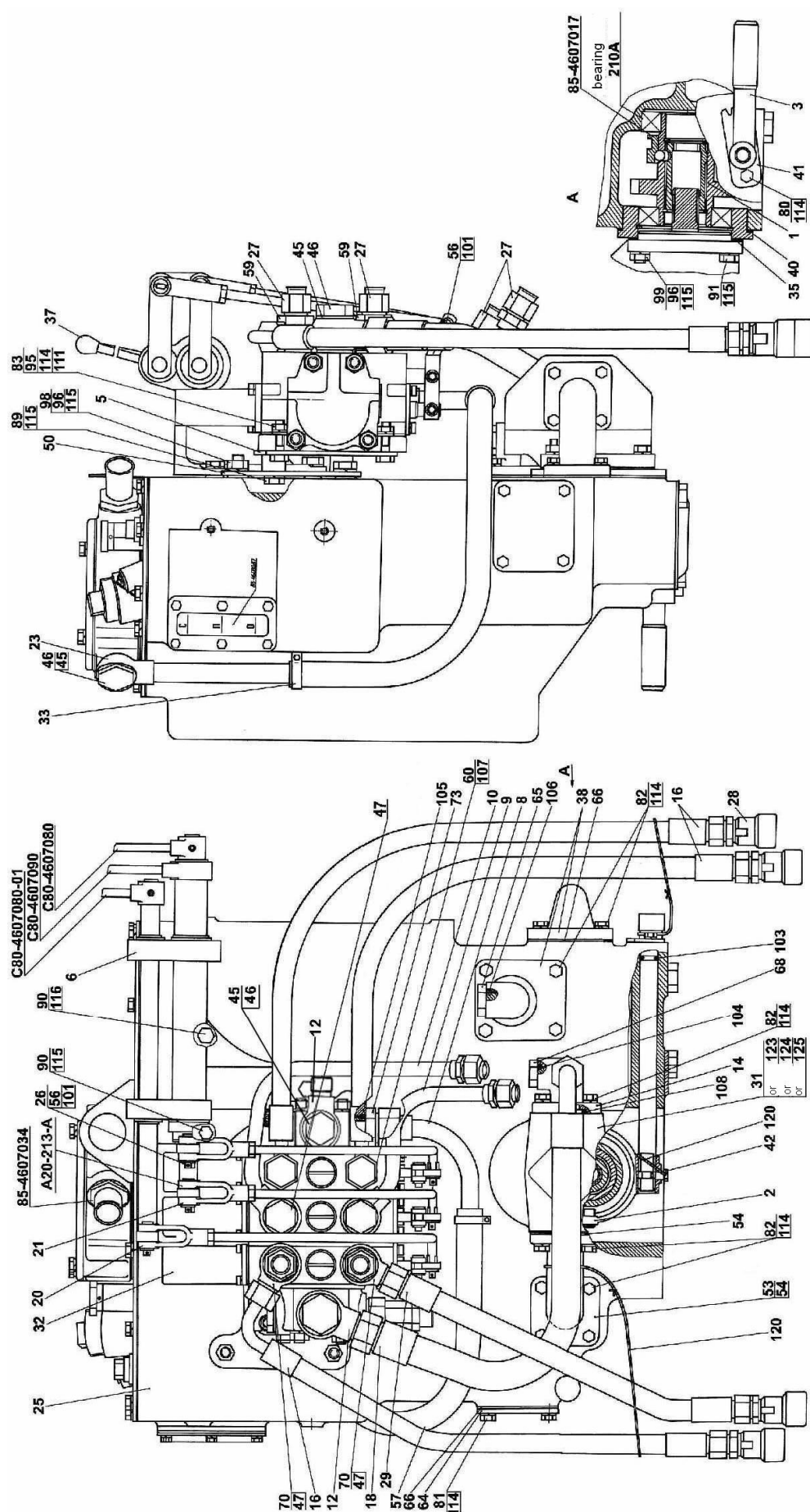


Fig.46.5. Hydraulic system housing P1221-4600015-02

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.5		P1221-4600015-02	1	Hydraulic system housing
	1	80-4604010	1	Pump drive
	2	85-4604030	1	Fork
	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-B	1	Pipe
	10	85-4607080-B	1	Pipe
	12	952-4607080	2	Adapter
	14	Д80-4607100	1	Tube
	16	680-4607140-04	1	High-pressure hose $\phi 10 \times 1$ armoured
	18	952-4607140	1	High-pressure hose $\phi 16 \times 2$ armoured
	20	P1221-4607260	1	Link
	21	P1221-4607260-01	2	Link
	23	80B-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	M036.50B.10	4	Left housing
	29	ПН.036.83.040	3	High-pressure hose $\phi 10 \times 1$ armoured
	31	НШ32М-3	1	Gear-type pump (additional spare part for pos.123 or pos.124 or pos.125)
	32	РП70-1221	1	Distributor
	33	XC-26	2	Clamp
	35	36-1022054-A	1	Gasket
	37	70-3401093	3	Tip lever
	38	85-3407101	2	Tube
	40	70-4604037	1	Gasket
	41	50-4604044	1	Plate
	42	50-4604046	1	Fork bolt
	45	40-4607033-A-01 or PM 24	6	Washer
	46	40-4607037	3	Bolt
	47	40-4607038-A-01 or PM 1/2	12	Washer
	50	50-4607032-B	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	Adapter
	64	70-4608019	1	Cover
	65	85-4608021	2	Plug
	66	70-4608033	3	Gasket
	68	50-4608027-B	1	Plug
	70	530-4614029	4	Elbow
	73	H.036.04.011	1	Mail pipe adapter
	80	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	81	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	82	M8-6gx25.88.35.019 GOST 7796-70	20	Bolt
	83	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt

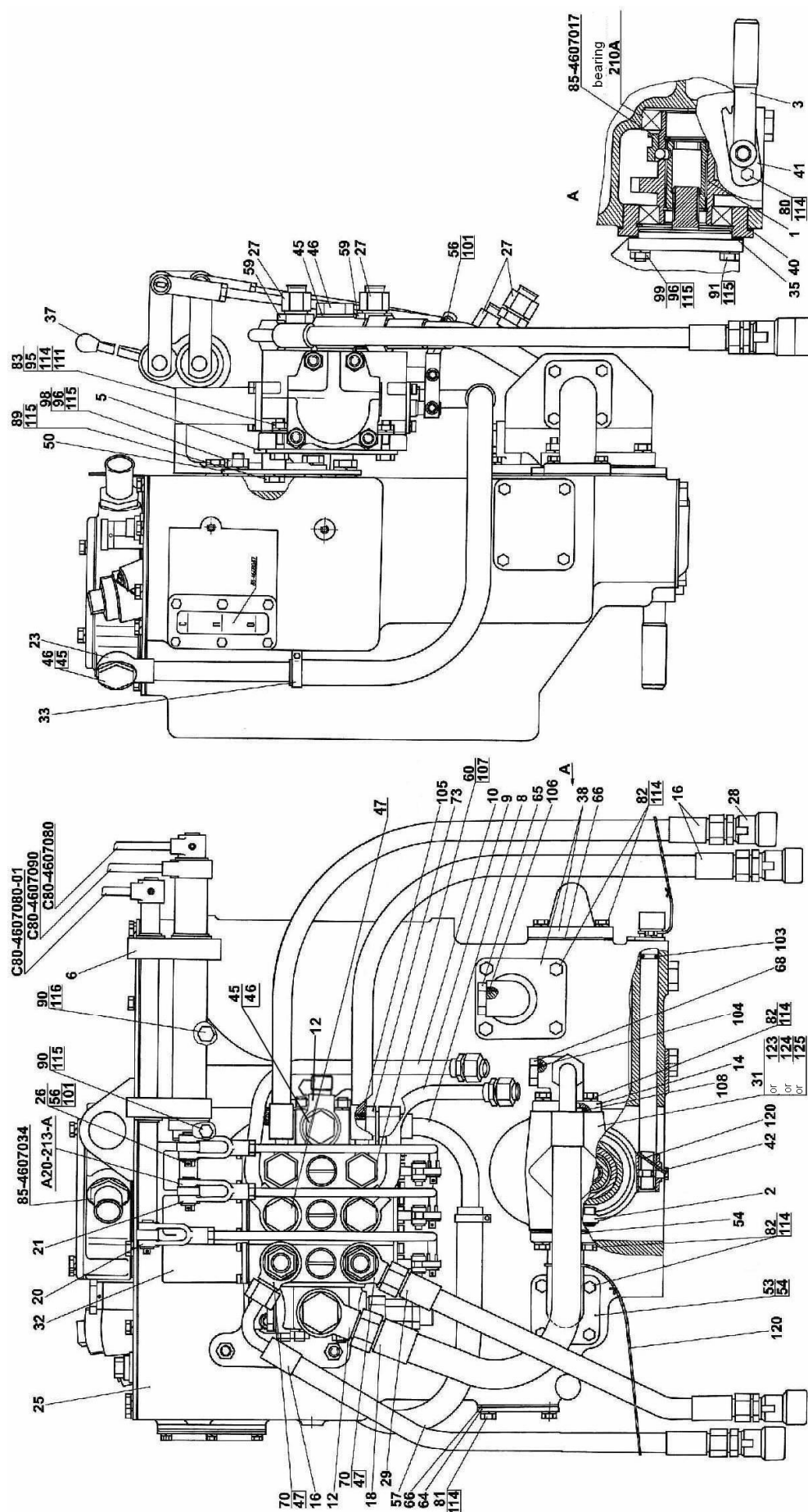


Fig.46.5. Hydraulic system housing P1221-4600015-02

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.5	89	M10-6gx20.88.35.019 GOST 7796-70	4	Bolt
	90	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	91	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	93	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	95	M8-6H.6.019 GOST 5915-70	4	Nut
	96	M10-6H.6.019 GOST 5915-70	5	Nut
	98	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	99	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
	101	3,2x18.019 GOST 397-79	6	Forelock
	103	013-017-25-1-4 GOST 18829-73/9833-73	1	Ring
	104	017-022-30-1-4 GOST 18829-73/9833-73	1	Ring
	105	PM24	1	Washer
	106	PM24	2	Washer
	108	035-040-30-1-4 GOST 18829-73/9833-73	1	Ring
	111	C 8.01.019 GOST 11371-78	4	Washer
	114	8T OST 37.001.115-75	30	Washer
	115	10 OT OST 37.001.115-75	12	Washer
	116	12 OT OST 37.001.115-75	2	Washer
	120	1,0-O-C GOST 3282-74 (150 mm)	3	Wire
	123	НШ32МА-3	1	Gear-type pump (additional spare part for Pos.31 or Pos.124 or Pos.125)
	124	НШ32Д-3	1	Gear-type pump (additional spare part for Pos. 31 or Pos.123 or Pos.125)
	125	НШ32УКФ-3	1	Gear-type pump (additional spare part for Pos.31 or Pos.123 or Pos.124)

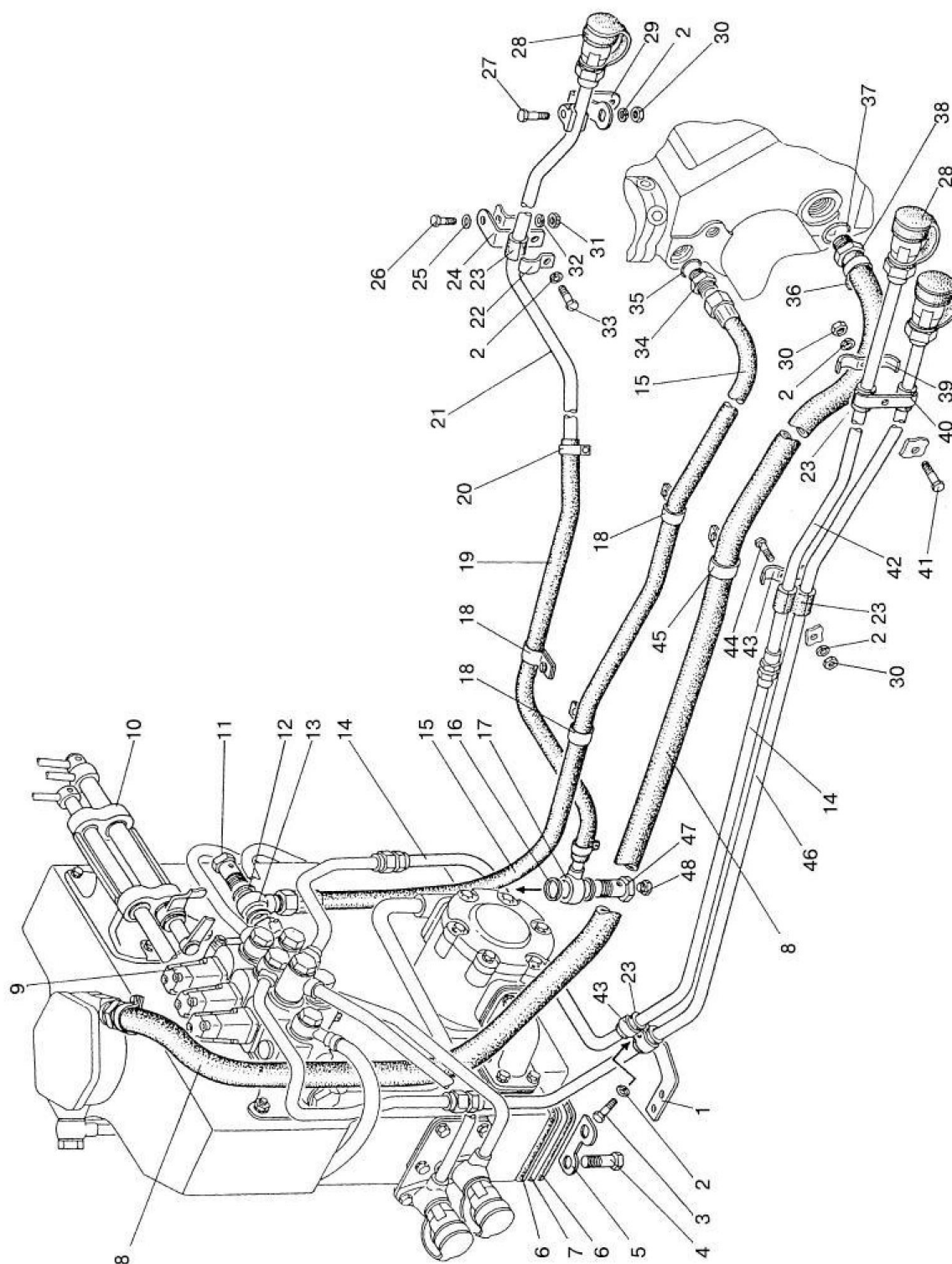


Fig.46.6. Hydraulic system 1021-4600010

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

Fig.No	Pos.No	Designation	Q-ty	Name
46.6		1021-4600010	1	Hydraulic system
	1	H80-4607206	1	Bracket
	2	8T OST 37.001.115-75	7	Washer
	3	M8-6gx30.88.35.019 GOST 7796-70	1	Bolt
	4	M14x1,5-6gx45.88.35.019 GOST 7796-70	4	Bolt
	5	70-4607168	2	Plate
	6	50-4608049-01	2	Gasket
	7	70-4608072	1	Plate
	8	П80-4607012	1	Hose
	9	RS 213 MITA	1	Hydraulic distributor valve
	10	80-4607040-04	1	Control of hydraulic distributor valve
	11	40-4607037	1	Bolt
	12	40-4607033-A-01 or PM 24	2	Washer
	13	952-4607080	1	Adapter
	14	H80-4607170	1	Oil pipeline
	15	П80-4607120	1	Hose
	16	40-4607038-A-01 or PM 1/2	2	Washer
	17	C80-4607380	1	Pipe
	18	П80-4607013	3	Clamp
	19	K1221-4607011	1	Hose
	20	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	21	K1221-4607125	1	Pipe
	22	70-3407163-01	1	Joke
	23	70-3506027	7	Bushing
	24	1321-3407022	1	Bracket
	25	C 10.01.019 GOST 11371-78	1	Washer
	26	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	27	M8-6gx35.88.35.019 GOST 7796-70	1	Bolt
	28	M036.50Б.10	3	Left housing
	29	85-4607431	1	Bracket
	30	M8-6H.6.019 GOST 5915-70	3	Nut
	31	M10-6H.6.019 GOST 5915-70	1	Nut
	32	10 OT OST 37.001.115-75	1	Washer
	33	M8-6gx25.88.35.019 GOST 7796-70	1	Bolt
	34	П80-4607016	1	Adapter
	35	021-024-19-1-4 GOST 18829-73/9833-73	1	Ring
	36	XC-31 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	37	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	38	85-4607034	1	Adapter
	39	40-4607029-A	1	Plate
	40	70-4607156	1	Plate
	41	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	42	H80-4607150	1	Oil pipeline
	43	70-3407146	2	Plate
	44	M8-6gx40.88.35.019 GOST 7795-70	1	Bolt
	45	П80-4607013-01	1	Clamp
	46	H80-4607160	1	Oil pipeline
	47	80-4607439	1	Bolt
	48	КГ 1/4".A12.019	1	Plug

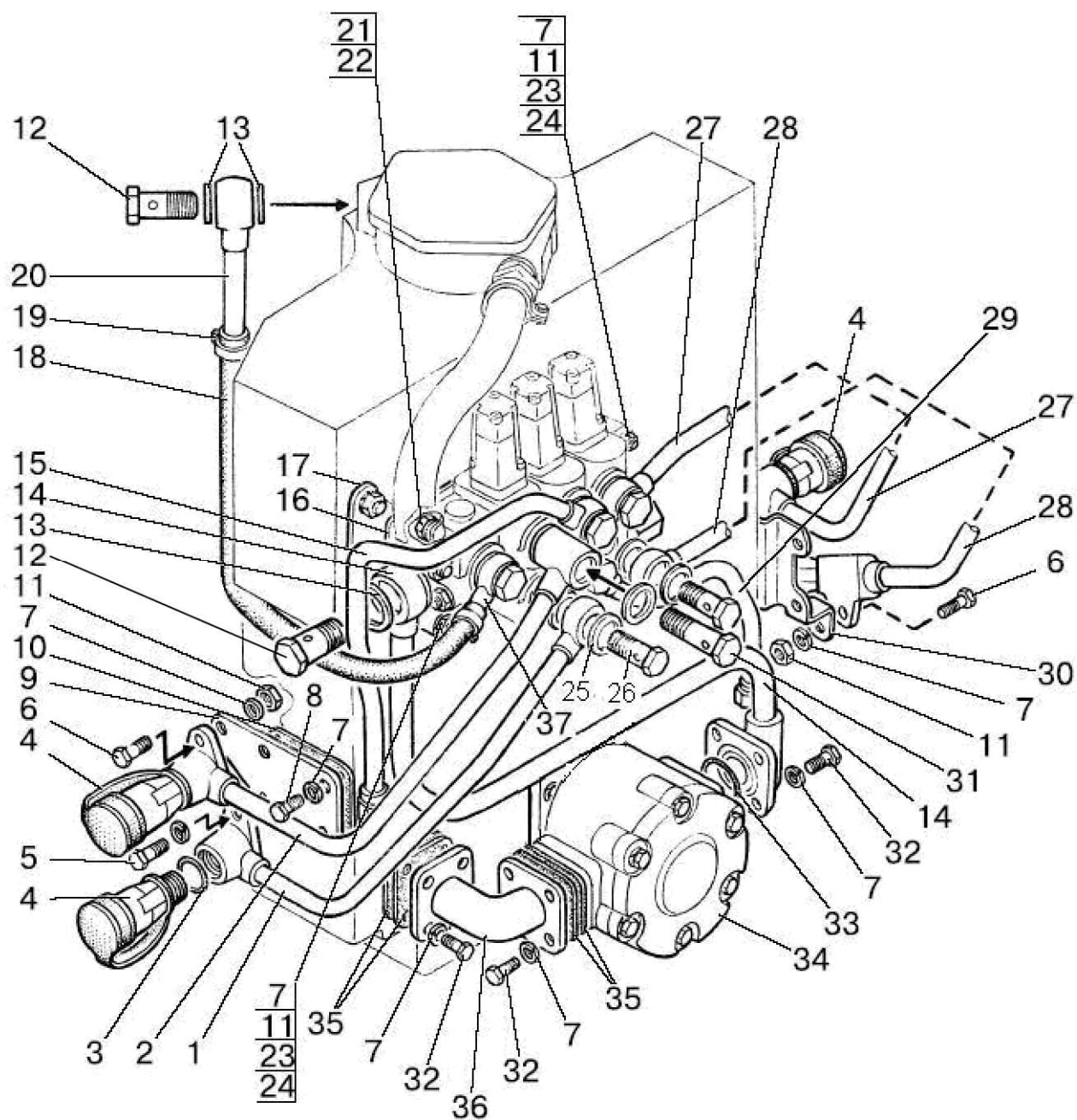


Fig.46.7. Hydraulic system housing 1021-4600015

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

Fig.No	Pos.No	Designation	Q-ty	Name
46.7		1021-4600015	1	Hydraulic system housing
	1	C80-4607130	1	Pipe
	2	C80-4607120	1	Pipe
	3	017-022-30-1-4 GOST 18829-73/9833-73	5	Ring
	4	M036.506.10	4	Left housing
	5	M8-6gx35.88.35.019 GOST 7796-70	1	Bolt
	6	M8-6gx30.88.35.019 GOST 7796-70	3	Bolt
	7	8T OST 37.001.115-75	32	Washer
	8	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	9	80-4608019-01	1	Cover
	10	70-4608033-01	1	Gasket
	11	M8-6H.6.019 GOST 5915-70	7	Nut
	12	40-4607037	2	Bolt
	13	40-4607033-A-01 or PM 24	4	Washer
	14	C80-4607075-Б or C80-4607075-Г	1	Pipe (for HШ32A-3) Pipe (for HШ32M-3)
	15	C80-4607165	1	Pipe
	16	C80-4607030	1	Bracket
	17	50-4607032-Б	1	Bracket
	18	C80-4607063	1	Hose
	19	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	20	C80-4607375	1	Pipe
	21	M10-6gx20.88.35.019 GOST 7796-70	4	Bolt
	22	10 OT OST 37.001.115-75	12	Washer
	23	M8-6gx65.88.35.019 GOST 7796-70	4	Bolt
	24	C 8.01.019 GOST 11371-78	4	Washer
	25	40-4607038A-01 or PM 1/2	14	Washer
	26	40-4607032	6	Bolt
	27	C80-4607110	1	Pipe
	28	1021-4607115	1	Pipe
	29	C80-4607175	1	Pipe
	30	80B-1108570	1	Bracket
	31	50-4607031	1	Bolt
	32	M8-6gx25.88.35.019 GOST 7796-70	20	Bolt
	33	035-040-30-1-4 GOST 18829-73/9833-73	1	Ring
	34	HШ 32A-3 or HШ 32M-3 or HШ 32MA-3 or HШ 32УКФ-3 or HШ 32Д-3 or HШ 32УБ-3	1	Gear-type pump
	35	50-4607097-01	4	Gasket
	36	70-4607096-A (only for HШ 32A-3) or 50-4607096-A	1	Tube
	37	C80-4607380	1	Pipe

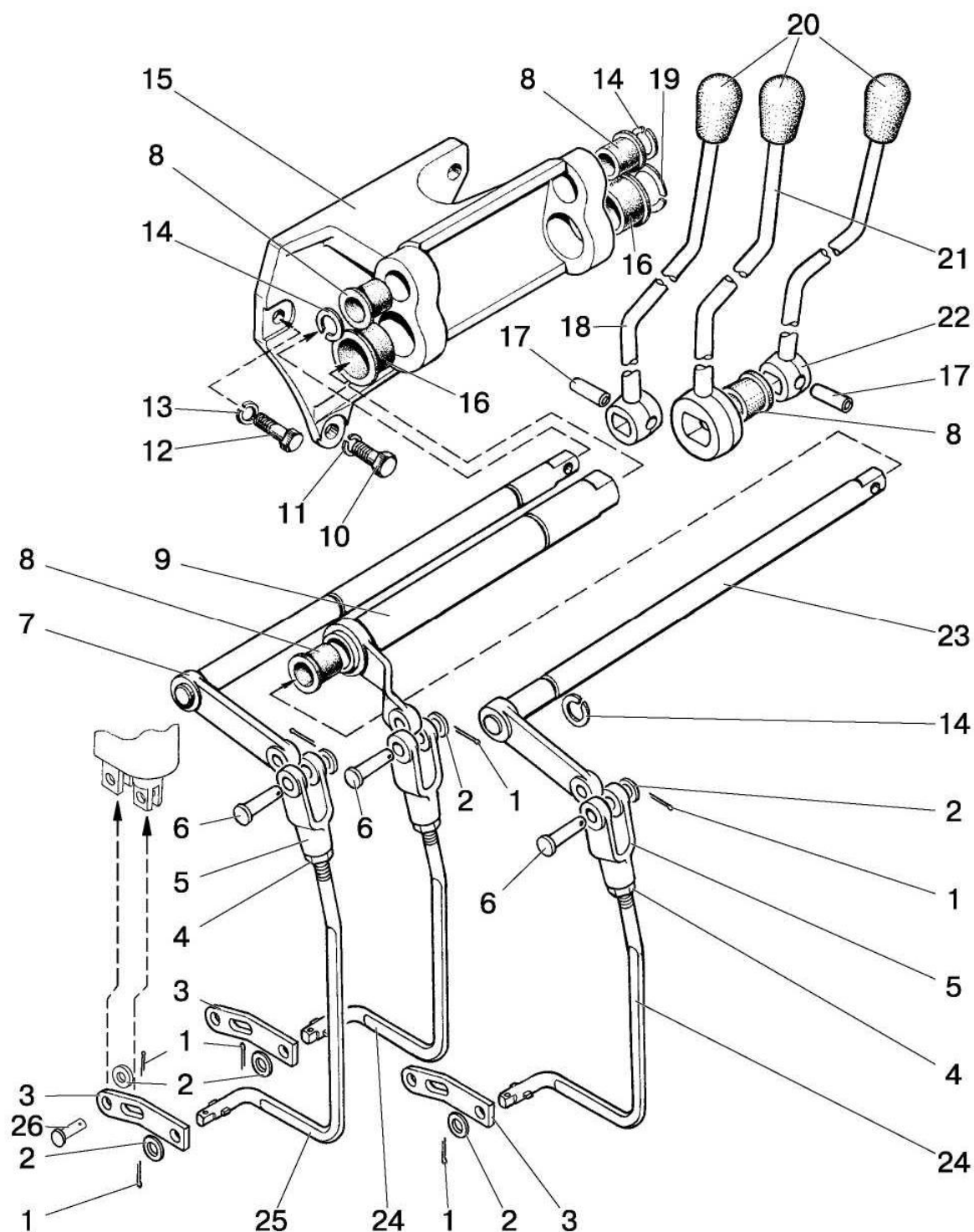


Fig.46.8. Control of hydraulic distributor valve RS213 Mita, RS 213 Belarus, ПП 70

Group 46. Hydraulic system**Subgroup 4607. Control of hydraulic distributor valve RS 213 Mita, RS 213 Belarus, ПП 70**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.8	1	3,2x18.019 GOST 397-79	12(6*)	Forelock
	2	70-4607144	12(6*)	Washer
	3	C80-4607086**	3	Lever
	4	M8-6H.6.019 GOST 5915-70	3	Nut
	5	A20-213A	3	Fork
	6	A61-030-A1	3	Pin
	7	80-4607250	1	Shaft
	8	50-4607078-A	4	Bushing
	9	80-4607230	1	Shaft
	10	M12-6gx30.88.35.019 GOST 7796-70	2	Bolt
	11	12 OT OST 37.001.115-75	2	Washer
	12	M10-6gx35.88.35.019 GOST 7796-70	1	Bolt
	13	10 OT OST 37.001.115-75	1	Washer
	14	C18 GOST 13940-86	3	Ring
	15	85-4607017	1	Bracket
	16	50-4607079-A1	2	Bushing
	17	A.8x30.65Г Хим.Фос.прм.GOST 14229-93	2	Pin
	18	C80-4607080-01	1	Lever
	19	C32 GOST 13940-86	1	Ring
	20	70-3401093	3	Tip lever
	21	C80-4607090	1	Lever
	22	C80-4607080	1	Lever
	23	80-4607220	1	Shaft
	24	C80-4607261 P1221-4607261*	2	Link
	25	C80-4607261-01 P1221-46007261-01*	1	Link
	26	C80-4607088**	6	Pin

* With distributor valve ПП 70

** Only for RS 213 Mita

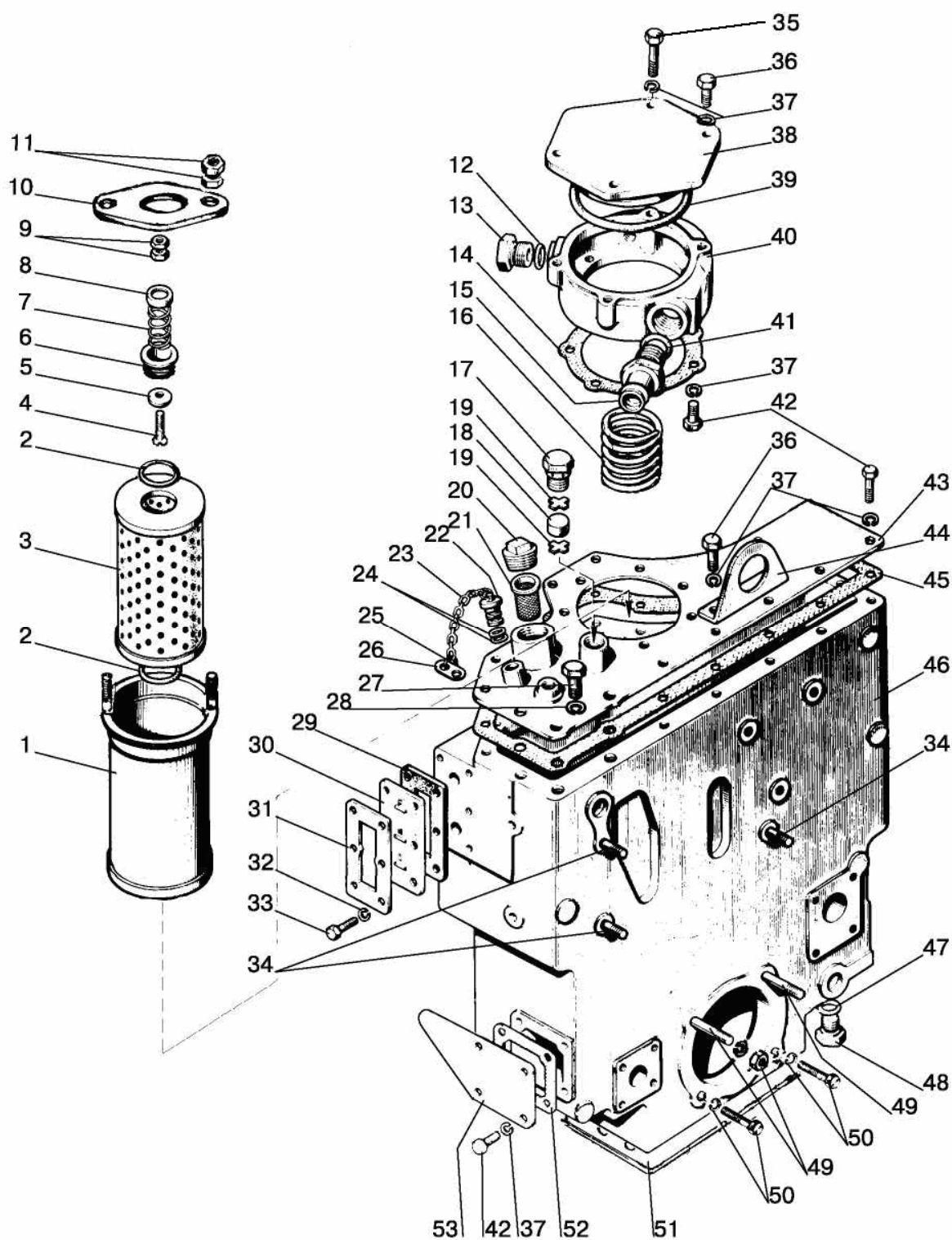


Fig.46.9 Hydraulic system housing and filter

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

Fig.No	Pos.No	Assembly unit or part No	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	042-050-46-2-4 GOST 18829-73/GOST 9833-73	2	Ring
	3	4600.30	1	Filter element Pegotmac 635-1
	4	B.M6-6gx40.58.019 GOST 17475-80	1	Screw
	5	8.20.004	1	Valve
	6	A28.04.10.001	1	Valve body
	7	8.20.002	1	Spring
	8	8.20.005	1	Washer
	9	M6-6H.6.019 GOST 5915-70	2	Nut
	10	A28.04.00.001	1	Retainer
	11	M6-6H.6.019 GOST 5915-70	4	Nut
	12	021-025-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	13	85-4608021	1	Plug
	14	85-4608089	1	Gasket
	15	85-4607034	1	Adapter
	16	85-4608057	1	Spring
	17	50-4608059	1	Breather plug
	18	50-4608063	1	Filter
	19	50-4608062	2	Breather washer
	20	KГ 1/4"	1	Plug
	21	A61-C06-A3	1	Filter
	22	85-4608091	1	Valve
	23	50-1002450	1	Chain
	24	011-015-25-2-4 GOST 18829-73/GOST 9833-73	2	Ring
	25	36-1101067	2	Ring
	26	50-3407069	1	Chock
	27	M12-6gx20.88.35.019 GOST 7796-70	3	Bolt
	28	12 OT OST 37.001.115-75	3	Washer
	29	85-4608086-A	1	Gasket
	30	85-4608087	1	Indicator
	31	85-4608088	1	Plate
	32	6T OST 37.001.115-75	6	Washer
	33	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	34	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	35	M8-6gx80.88.35.019 GOST 7795-70	1	Bolt
	36	M8-6gx25.88.35.019 GOST 7796-70	5	Bolt
	37	8T OST 37.001.115-75	27	Washer
	38	85-4608022	1	Cover
	39	130-135-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	40	85-4608018	1	Cage
	41	027-032-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	42	M8-6gx20.88.35.019 GOST 7796-70	20	Bolt
	43	85-4608025	1	Cover
	44	80-4608073	1	Bracket
	45	85-4608031	1	Gasket
	46	85-4608016-A	1	Hydraulic system housing

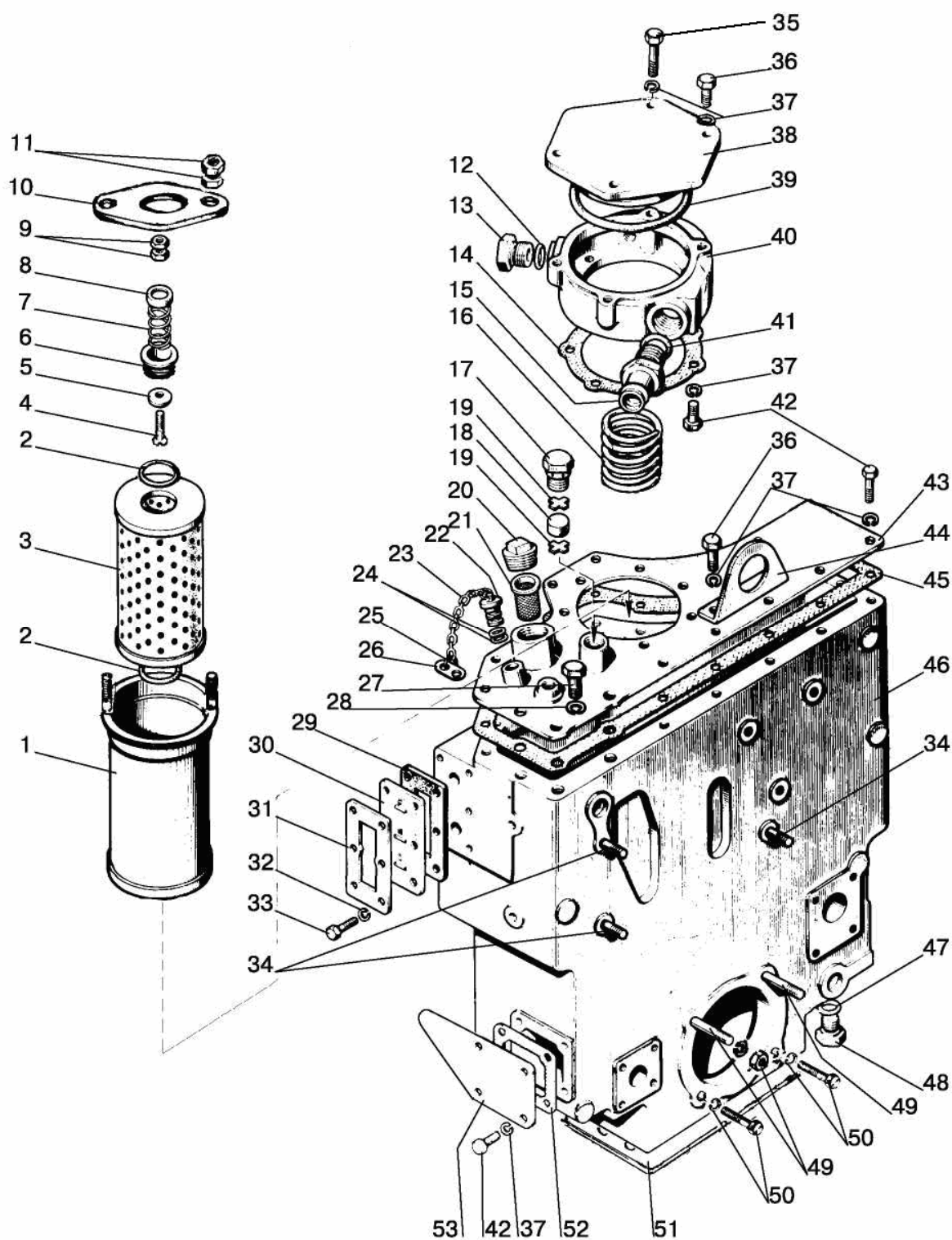


Fig.46.9 Hydraulic system housing and filter

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.9	47	017-022-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	48	50-4608027-B	1	Plug
	49	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
		M10-6H.6.019 GOST 5915-70	2	Nut
	50	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
		10 OT OST 37.001.115-75	4	Washer
	51	50-4608049-01	1	Gasket
	52	70-4608033	1	Gasket
	53	80-4608019-01	1	Cover

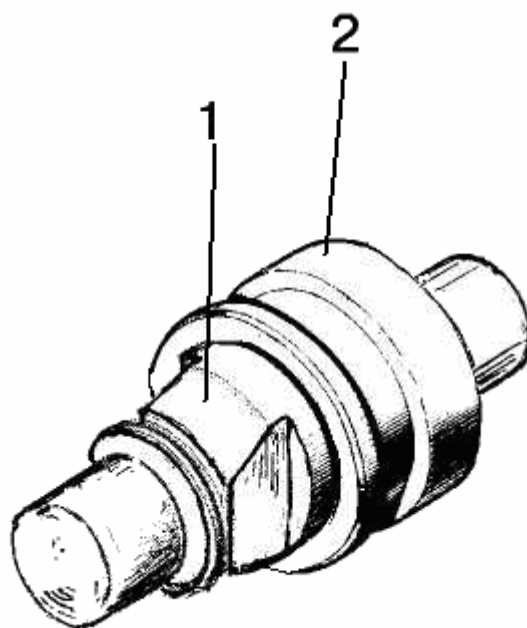


Fig.46.10 Fast coupling

Subgroup M036.50Б. Fast coupling

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.10	1	M036.50Б.20 or 0.653.00 or PPV3.1320.712	1	Right housing
	2	M036.50Б.10 or 0.693.10 or PPV3.1320.703	1	Left housing

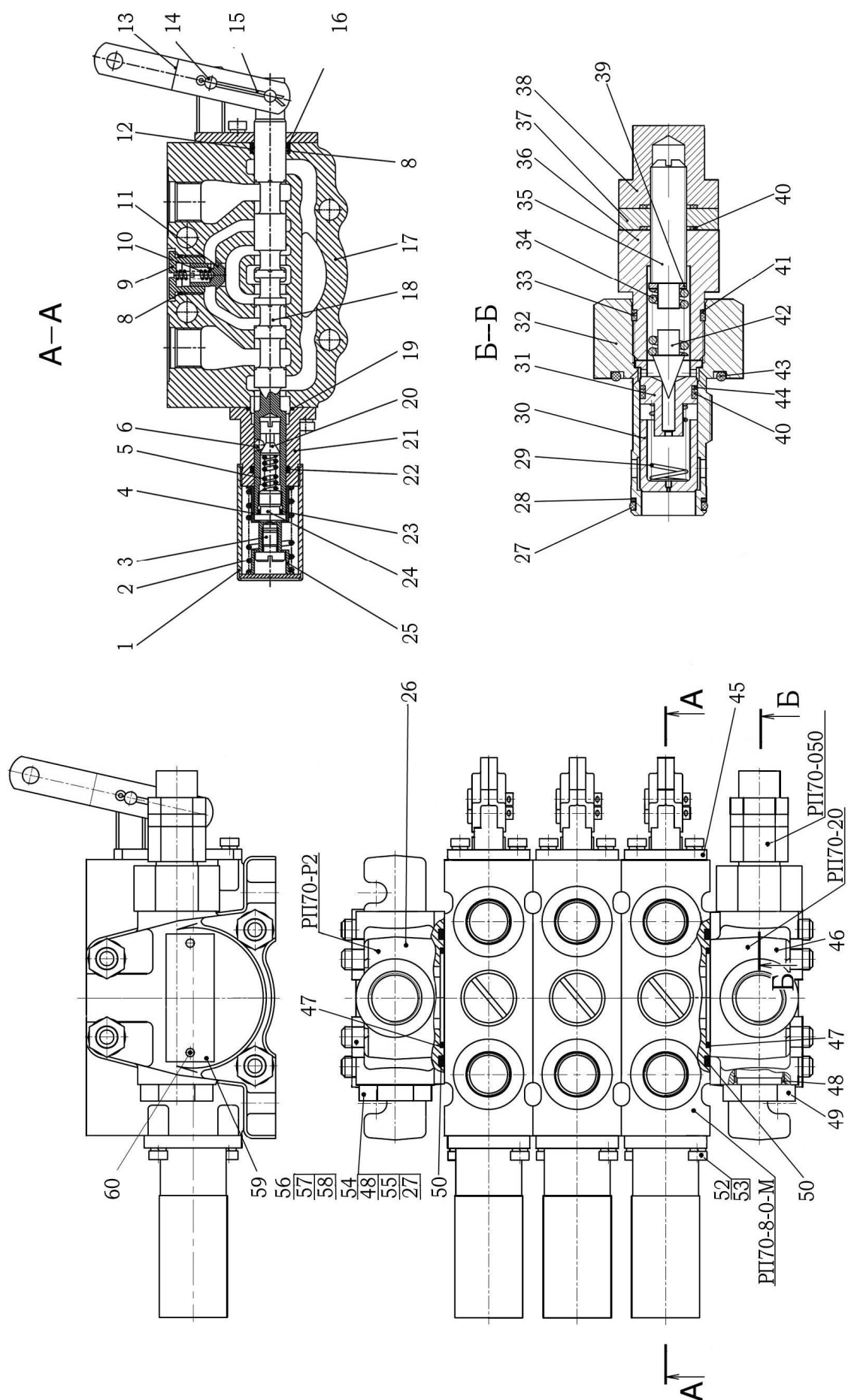


Fig.46.11. Hydraulic distributor valve PП70

**Group 46. Remote-cylinder hydraulic system
Subgroup РП70. Hydraulic distributor valve РП70**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.11		РП70-888-000-MMM-20P2	1	Hydraulic distributor valve
		РП70-8-0-M	3	Distributor valve section (1-25, 45, 52, 53)
		РП70-P2	1	Cover (РП70-080, 26, 47, 50)
		РП70-20	1	Cover (РП70-050, 46, 48, 49)
		РП70-050	1	Safety valve (27-44)
		РП70-080	1	Blind plug (27, 48, 54, 55)
	1	РП70-090	1	Pipe
	2	P16.3.10.10	1	Spring
	3	РП70-026	1	Screw
	4	РП70-018-01	1	Disk
	5	РП70-033	1	Spring
	6	5,556-100 GOST 3722-81	3	Ball
	8	017-020-19-2-2 GOST 18829-73/GOST 9833-73	1	Ring
	9	РП70-024	1	Plug
	10	РП70-027	1	Spring
	11	РП70-023	1	Regulating valve
	12	РП70-031	1	Ring
	13	РП70-042	2	Plate
	14	6x18 OST 37.001.163-75	2	Pin
	15	2x40.019 GOST 397-79	3	Forelock
	16	РП70-032	1	Ring
	17	РП70-011	1	Housing
	18	РП70-013	1	Spool
	19	030-034-25-2-2 GOST 18829-73/GOST 9833-73	1	Ring
	20	9,525-100 GOST 3722-81	1	Ball
	21	РП70-014	1	Yoke
	22	016-020-25-2-2 GOST 18829-73/GOST9833-73	1	Ring
	23	009-012-19-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	24	РП70-016	1	Threaded bushing
	25	РП70-018	1	Disk
	26	РП70-012	1	Cover
	27	018-021-19-2-4 GOST18829-73/GOST9833-73	2	Ring
	28	РП70-058	1	Ring
	29	70-4609037	1	Spring
	30	РП70-052-Б	1	Valve
	31	РП70-054	1	Seat
	32	РП70-051	1	Housing
	33	016-020-25-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	34	МКПВ-16/3Ф-103	1	Spring
	35	РП70-059	1	Screw
	36	РП70-053	1	Adapter
	37	РП70-076	1	Nut
	38	РП70-057	1	Cap
	39	C 6.01.019 GOST 11371-78	1	Washer
	40	013-016-19-2-2 GOST18829-73/GOST9833-73	3	Ring
	41	РП70-058-02	1	Ring
	42	МКПВ-16/3Ф-101	1	Needle
	43	028-032-25-2-2 GOST18829-73/GOST9833-	1	Ring 73

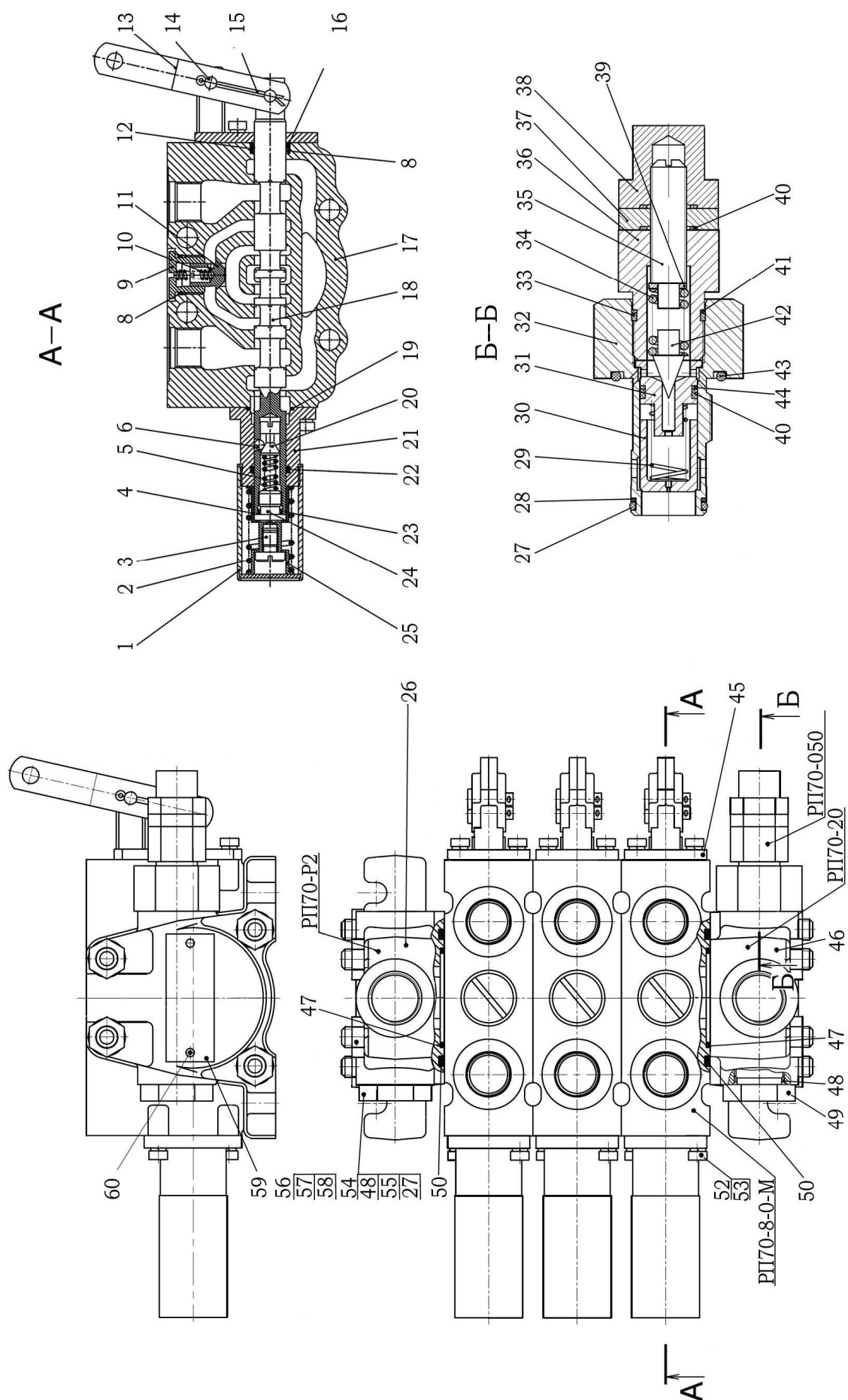


Fig.46.11. Hydraulic distributor valve PП70

**Group 46. Remote-cylinder hydraulic system
Subgroup PП70. Hydraulic distributor valve PП70**

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

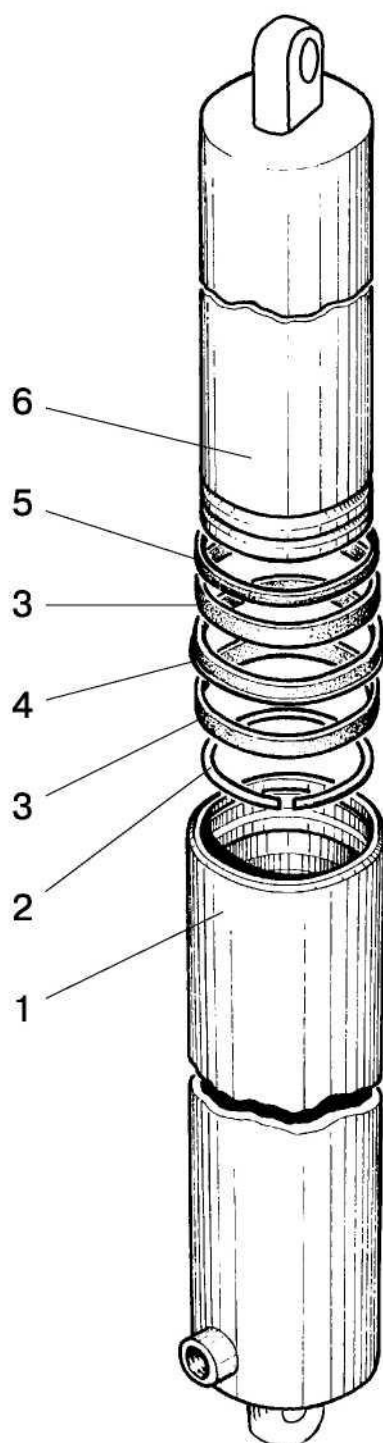


Fig.46.12. Hydraulic lift cylinder

Subgroup 4625. Hydraulic lift cylinder

Fig.No	Pos.No	Designation	Q-ty	Name
46.12		820-4625010-Б or (820E-4625010-Б)	1	Cylinder assembly (1-6)
	1	820-4625020 (820E-4625020)	1	Cylinder
	2	820-4625015 (820E-4625015)	1	Lock ring
	3	DFI 80-85-9,5 Simrit PF48	2	Guide ring
	4	NI300 80-90-12 T94AU925	1	Collar
	5	AUASOB 80-90-6,1-8,3 T94AU925	1	Wiper seal
	6	820-4625014-Б (820E-4625014-Б)	1	Plunger
		820H-4625010-Б	1	Cylinder assembly (1-6)
	1	820H-4625020	1	Cylinder
	2	820H-4625015	1	Ring
	3	GR6900800-Z61	2	Guide
	4	LI-CUP RU 2300800 WUAQ3	1	Collar
	5	DA22 WD-2200800 WUAQ3	1	Wiper seal
	6	820H-4625014-Б	1	Plunger

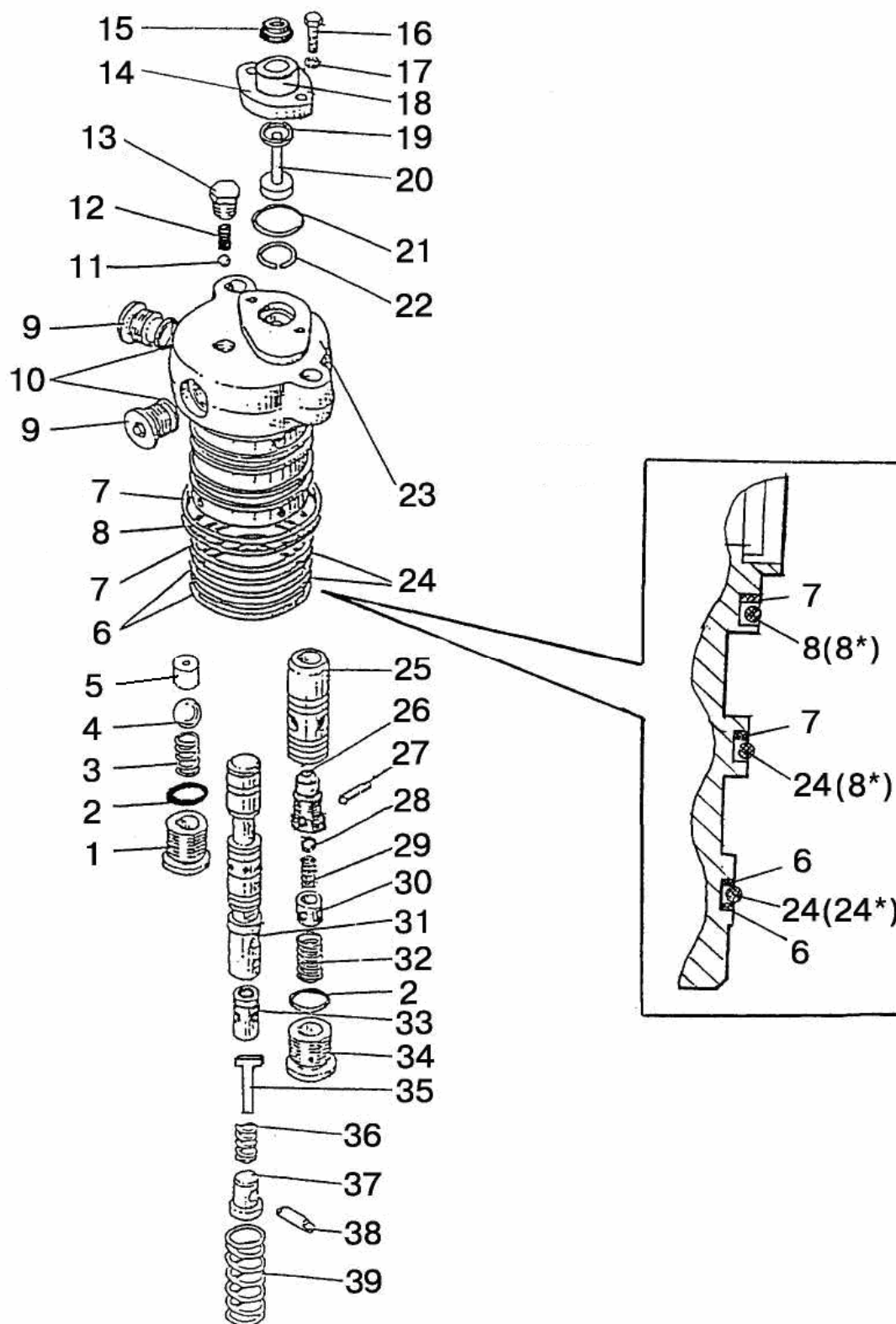


Fig.46.13. Distributor valve of wiper seal

Subgroup 4634. Distributor valve of hydraulic lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.13		820-4634010	1	Distributor valve
		820-4634020A	1	Valve (25-30)
	1	820-4634021	1	Plug
	2	017-020-19-2-6 GOST 18829-73/9833-73	2	Ring
		or 17,00-2,00 SIMRIT 72 NBR 872	2	Ring
	3	A61-072	1	Spring
	4	14,288-60 GOST 3722-81	1	Ball
	5	820-4634017	1	Seat
	6	820-4634025A	2	Ring
	7	820-4634025-A-01	2	Ring
	8	068-072-25-2-6 GOST 18829-73/9833-73	2	Ring
		or 65,00-2,50 SIMRIT 72 NBR 872	2	Ring
	9	820-4634022	2	Plug
	10	013-016-19-2-6 GOST 18829-73/9833-73	2	Ring
		or 13,00-2,00 SIMRIT 72 NBR 872	2	Ring
	11	6,350-100 GOST 3722-81	1	Ball
	12	80-4614058	1	Spring
	13	KГ 1/8". A12.019 TU 23.1.506-91	1	Plug
	14	820-4634013-B	1	Cover
	15	2-10 GOST 24811-81	1	Wiper seal
	16	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	17	6T OST 37.001.115-75	2	Washer
	18	820-4634039	1	Bushing
	19	010-014-25-2-2 GOST 18829-73/9833-73	1	Ring
	20	820-4634038	1	Pusher
	21	021-024-19-2-6 GOST 18829-73/9833-73	1	Ring
		or 21,00-2,00 SIMRIT 72 NBR 872	1	Ring
	22	820-4634036	1	Lock ring
	23	820-46340111	1	Housing
	24	064-068-25-2-6 GOST 18829-73/9833-73	2	Ring
		or 63,00-2,50 SIMRIT 72 NBR 872	1	Ring
	25	820-4634014	1	Valve
	26	820-4634018-B	1	Seat
	27	2.3x14 GOST 3128-70	1	Pin
	28	5,556-60 GOST 3722-81	1	Ball
	29	P75-B3BP-082	1	Spring
	30	820-4634033	1	Thrust
	31	820-4634012	1	Spool
	32	820-4634024	1	Spring
	33	820-4634026-B	1	Valve
	34	820-4634019	1	Plug
	35	820-4634037	1	Thrust
	36	820-4634028	1	Spring
	37	820-4634029	1	Thrust
	38	820-4634027	1	Pin
	39	820-4634016	1	Spring

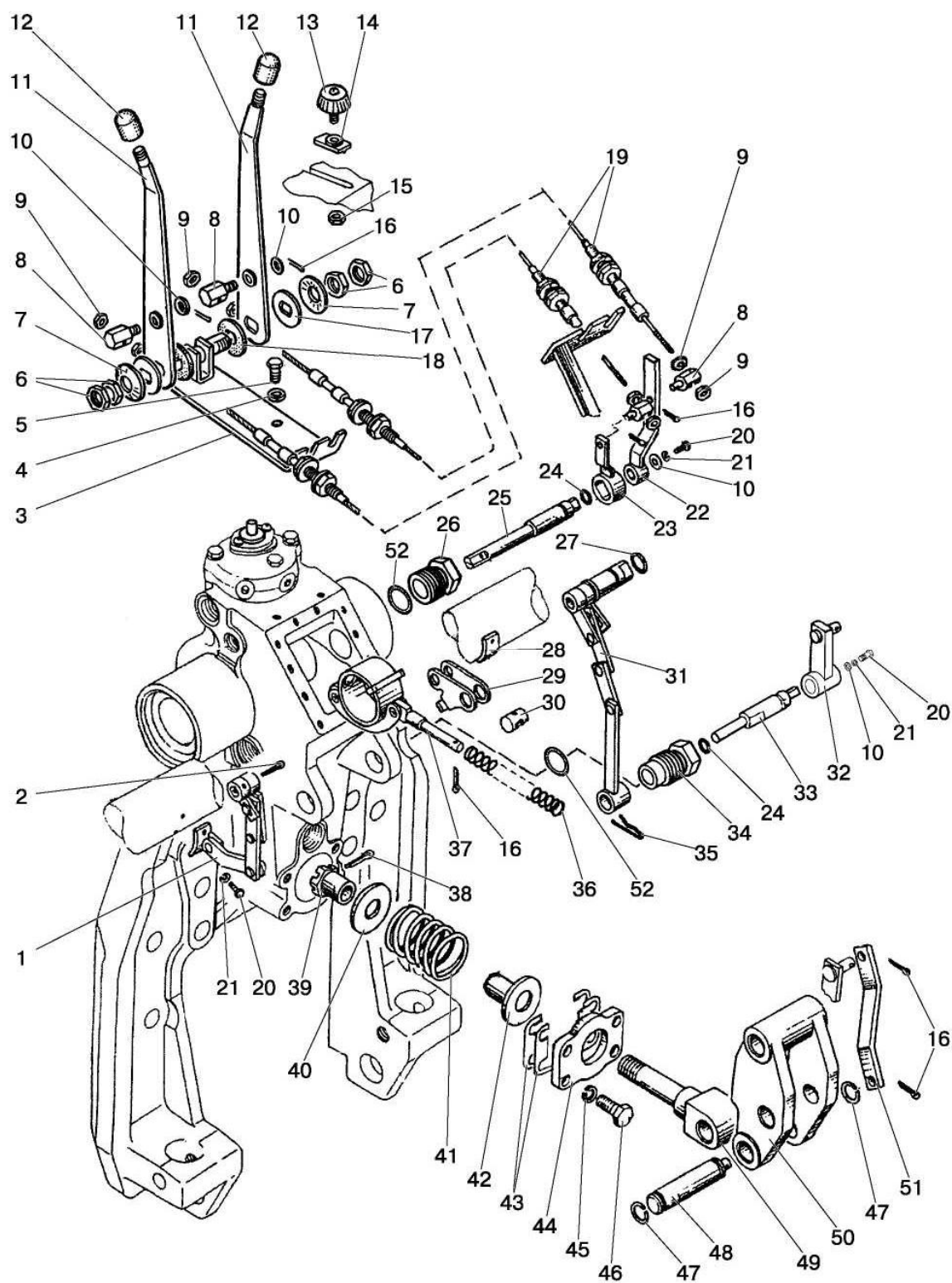


Fig.46.14. Control of hydraulic lift

Subgroup 4635. Control of hydraulic lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.14		820-4635020A	1	Force sensor (38-42, 44, 49)
		820-4635060	1	Summation link (16, 29, 30, 36, 37)
		820-4635090-B	1	Bracket (3, 6, 7, 11, 17)
	1	820-4635025	1	Link
	2	3,2x25.019 GOST 397-79	1	Forelock
	3	820-4635095-B	1	Bracket
	4	8T OST 37.001.115-75	4	Washer
	5	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	6	M14x1,5-6H.6.019 GOST 5915-70	4	Nut
	7	80B-1108347	2	Disk spring
	8	80B-1108317	4	Bonka
	9	M6-6H.6.019 GOST 5915-70	8	Nut
	10	C 6.01.019 GOST 6958-78	4	Washer
	11	820-4635100-B	2	Lever
	12	A13.11.000	2	Handle
	13	80-4616070	1	Screw
	14	820-4635082	1	Thrust
	15	M6-6H.019 TU 23.1.505-91	1	Nut
	16	3,2x18.019 GOST 397-79	7	Forelock
	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	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	21	6T OST 37.001.115-75	6	Washer
	22	820-4635080	1	Lever
	23	820-4635075	1	Lever
	24	011-015-25-2-4 GOST 18829-73/9833-73	2	Ring
	25	820-4635034	1	Shaft
	26	820-4635033-B	1	Bushing
	27	019-023-25-2-4 GOST 18829-73/9833-73	1	Ring
	28	820-4635046	1	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	4x22.019 GOST 397-79	1	Forelock
	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	12 OT OST 37.001.115-75	4	Washer
	46	M12-6gx30.88.35.019 GOST 7796-70	4	Bolt
	47	C22 GOST 13940-86	2	Ring
	48	820-4635018	1	Pin
	49	820-4635021	1	Push rod
	50	820-4635019	1	Clip
	51	820-4635048	1	Link
	52	027-032-30-1-4 GOST 18829-73/9833-73	2	Ring

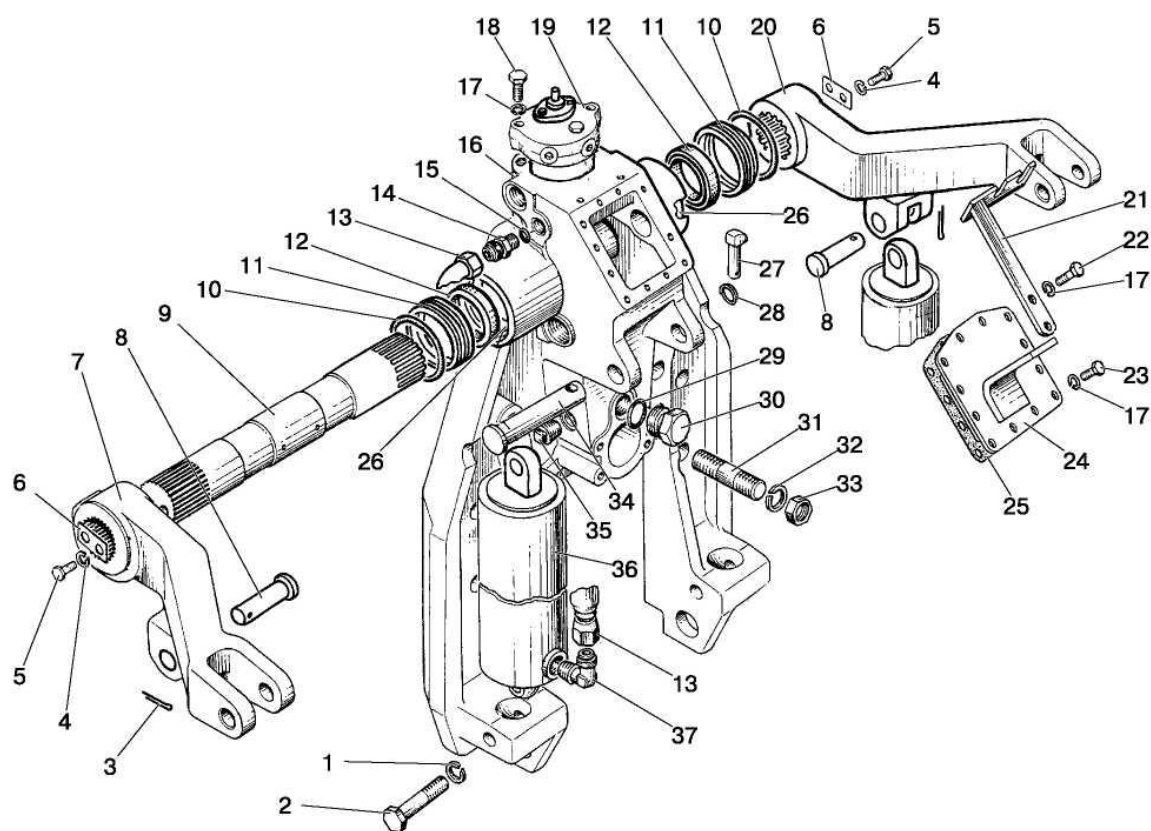


Fig.46.15. Hydraulic lift

Subgroup 4635. Hydraulic lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.15		1221-4635010	1	Hydraulic lift
	1	16 OT OST 37.001.115-75	2	Washer
	2	M16-6gx75.88.35.019 GOST 7795-70	2	Bolt
	3	5x36.019 GOST 397-79	2	Forelock
	4	12 OT OST 37.001.115-75	4	Washer
	5	M12-6gx30.88.35.019 GOST 7796-70	4	Bolt
	6	40-4605023-A2	2	Washer
	7	1221-4635013	1	Left lever
	8	1221-4635016	2	Pin
	9	1221-4635014	1	Shaft
	10	079-085-36-2-2 GOST 18829-73/9833-73	2	Ring
	11	820-4635091	2	Cage
	12	BABSL 60-72-7 SIMRIT 72 NBR 902	2	Collar
	13	820-4635115	2	Hose
	14	820-4635083	2	Adapter
	15	012-015-19-2-4 GOST 18829-73/9833-73	2	Ring
	16	1221-4635011	1	Housing
	17	8T OST 37.001.115-75	14	Washer
	18	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	19	820-4634010	1	Distributor valve
	20	1221-4635012	1	Right lever
	21	820-4635085	1	Bracket
	22	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	23	M8-6gx20.88.35.019 GOST 7796-70	10	Bolt
	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	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	30	80-4608021	1	Blind plug
	31	M80-4616011	4	Stud
	32	20 OT OST 37.001.115-75	4	Washer
	33	M20-6H.6.019 GOST 5915-70	4	Nut
	34	A61.10.001	1	Pin
	35	ПК КГ 3/8"	1	Plug
	36	820-4625010-Б or 820H-4625010-Б 820E-4625010-Б	2	Cylinder
	37	820-4635084	2	Elbow

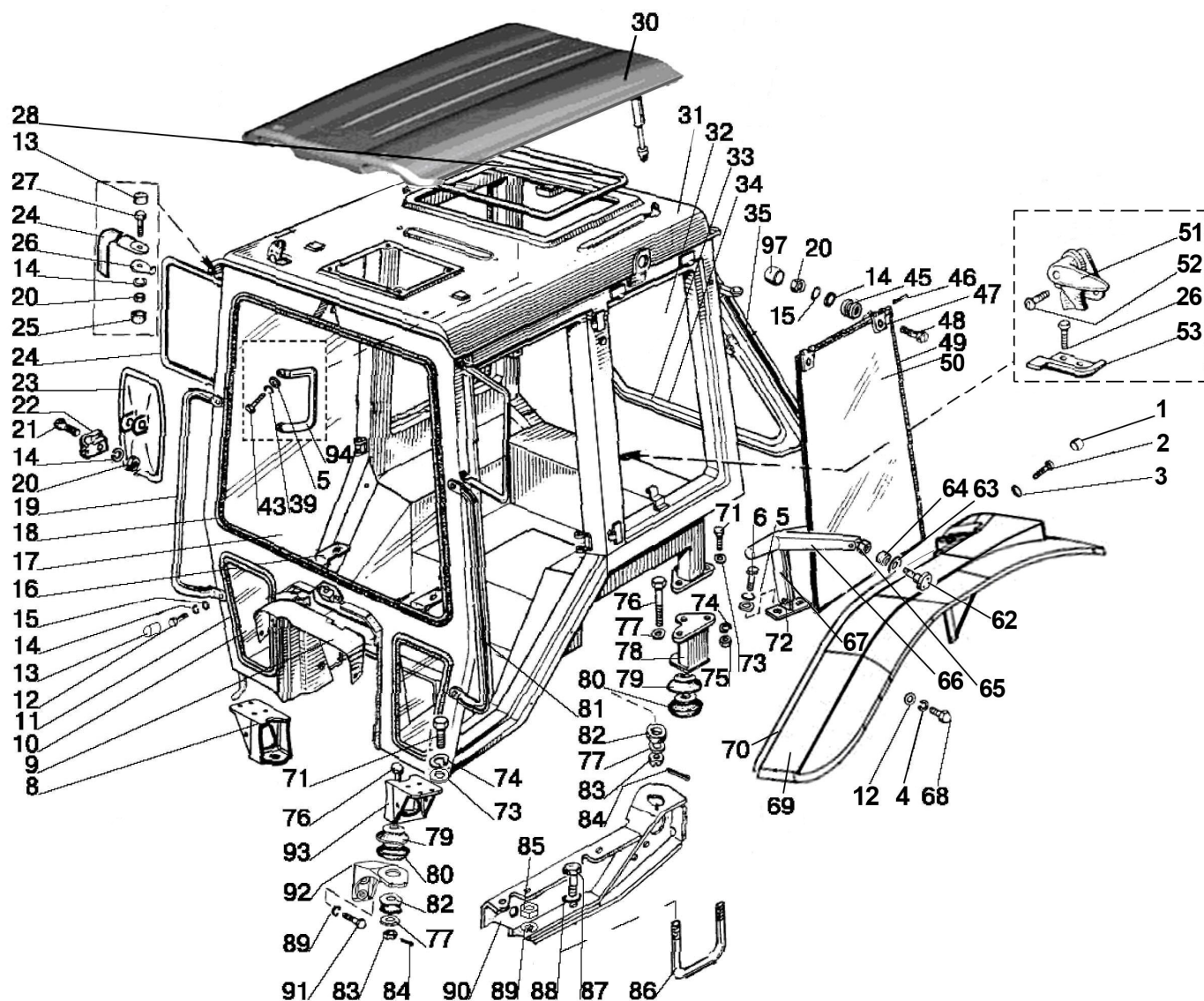


Fig. 67.1. Tractor cabin. Rear wings

Group 67. Tractor cabin
Subgroup 6700. Tractor cabin. Rear wings

Fig.No	Pos.No	Designation	Q-ty	Name
67.1		80-6700010-B	1	Cabin assembly
		80-6708210-01	1	Rear frame (32-35)
		80-6708900-03	2	Glass assembly (13, 14, 19, 24, 45, 47-50)
	1	A30.04.017	4	Cap
	2	M6-6gx20.88.35.019 GOST 7798-70	4	Bolt
	3	C 6.01.019 GOST 6958-78	4	Washer
	4	8Л OST 37.001.115-75	20	Washer
	5	C 6.01.019 GOST 11371-78	6	Washer
	6	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	7	6T OST 37.001.115-75	6	Washer
	8	80-6700031-B-01	1	Right bracket
	9	85-6703056	1	Insert
	10	80-6703012-A or 80-6703012-A1	2	Glass
	11	A37.08.043	2	Seal
	12	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	13	A30.04.017-01	8	Cap
	14	8T OST 37.001.115-75	14	Washer
	15	C 8.01.019 GOST 11371-78	8	Washer
	16	80-3805030	2	Bracket
	17	80-6703011-A or 80-6703011-A1	1	Glass
	18	A37.08.043-01	1	Seal L=4200 mm
	19	80-6703100	1	Right handrail
	20	M8-6H.6.019 GOST 5915-70	10	Nut
	21	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	22	A30.04.051	2	Clamp
	23	80-8201050	2	Mirror assembly
	24	80-8201106-A	2	Pipe
	25	A30.04.017-02	4	Cap
	26	80-8201107	4	Washer
	27, 48	M8-6gx30.88.35.019 GOST 7796-70	8	Bolt
	28	A37.08.040 or A37.08.045	1	Seal
	30	Д82-6707005	1	Roof assembly (plastic)
	31	80-6700020-B	1	Cabin (welded framework)
	32	80-6708211-A or 80-6708211-A1	1	Glass
	33	80-6708215	1	Frame
	34	A34.08.043-05	1	Seal
	35	80-6700021-01	1	Seal
	39	C 6.01.019 GOST 6958-78	10	Washer
	43	B.M6-6gx20.58.019 GOST 17473-80	1	Screw
	45	80-6708903	4	Bushing
	46	8x65 OST 37.001.163-75	4	Pin
	47	80-6708902	4	Loop
	49	F-202	2	Seal

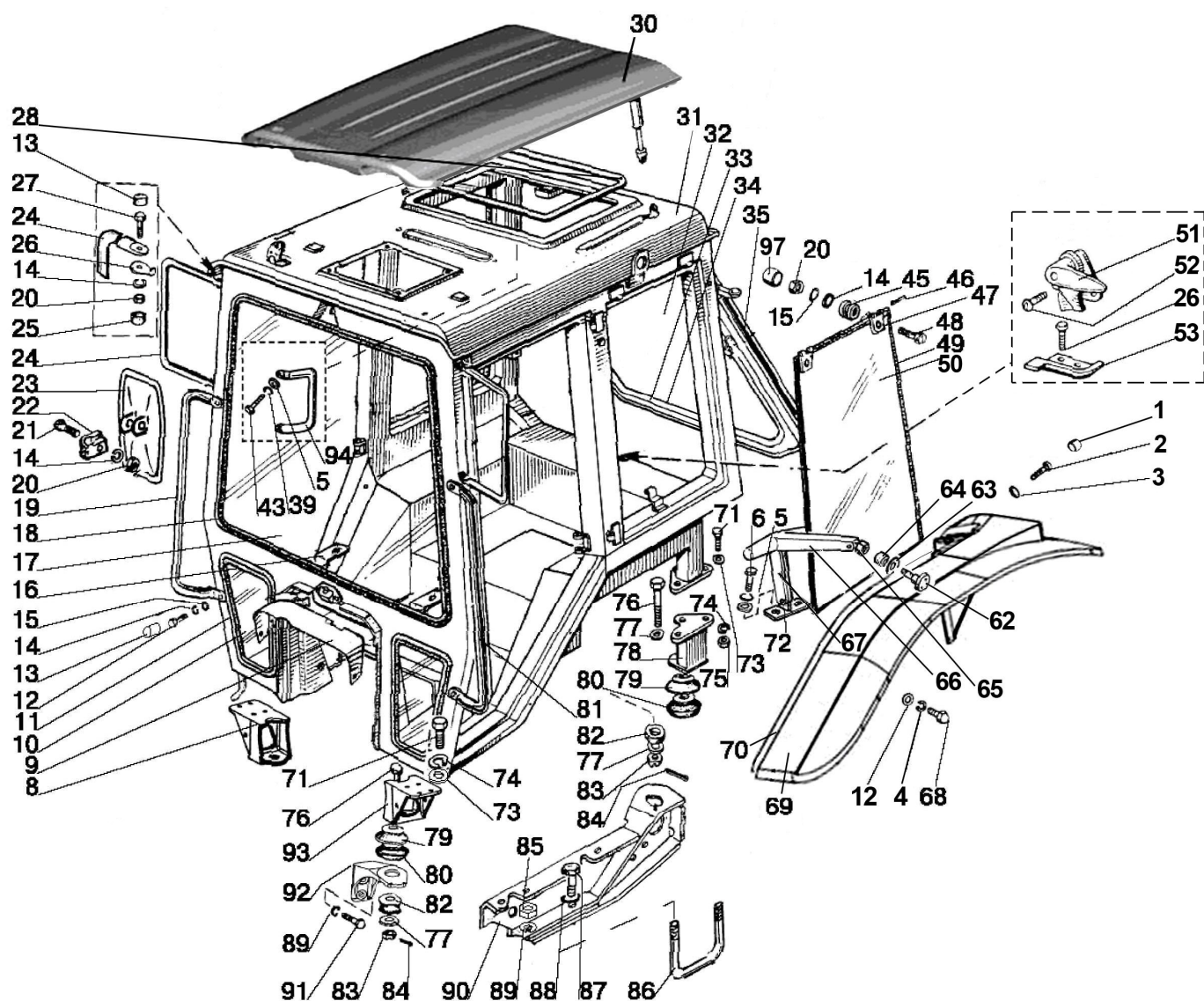


Fig. 67.1. Tractor cabin. Rear wings

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.1	50	1221-6708901-A or 1221-6708901-A1	2	Glass
	51	A37.05.025	1	Detent
	52	B.M6-6gx25.58.019 GOST 17473-80	2	Screw
	53	A37.05.021-B	1	Bracket
	62	80-6708975	2	Screw
	63	80-6708904	2	Gasket
	64	A37.01.041	2	Bushing
	65	A37.04.053	2	Nut
	66	A37.04.051	2	Handle
	67	A37.04.052	2	Lever
	68	M8-6gx20.88.35.019 GOST 7796-70	20	Bolt
	69	Д82-8404020 or Л82-8404011 or Д82-8404020-A	1	Left wing
		Д82-8404020-01 or Л82-8404011-01 or Д82-8404020-A-01	1	Right wing
	70	80-8404013-B	2	Seal
	71	M12-6gx35.88.35.019 GOST 7796-70	14	Bolt
	72	A37.04.050	2	Bracket
	73	C 12.01.019 GOST 11371-78	8	Washer
	74	12 OT OST 37.001.115-75	14	Washer
	75	M12-6H.6.019 GOST 5915-70	6	Nut
	76	80-6700029	4	Bolt
	77	C 16.01.019 GOST 11371-78	12	Washer
	78	80-6700037-B	1	Left support
		80-6700037-B-01	1	Right support
	79	80-6700163	4	Yoke
	80	80-6700160	4	Vibration isolator
	81	80-6703100	1	Left handrail
	82	130-5001364-B	4	Cushion
	83	M16-6H.6.019 GOST 5918-73	4	Nut
	84	4x36.019 GOST 397-79	4	Forelock
	85	M18x1,5-6H.6.019 GOST 5915-70	4	Nut
	86	80-6702022	2	Clamp (version)
	87	1221-6702301 or M20-6gx70.88.35.019 GOST 7796-70	4	Bolt (version)
	88	20 OT OST 37.001.115-75	4	Washer
	89	18 OT OST 37.001.115-75	4	Washer
	90	70-6702300-01	1	Right bracket
		70-6702300-02	1	Left bracket
	91	M16-6gx50.88.35.019 GOST 7796-70	4	Bolt
	92	80-6702068	1	Left bracket
		80-6702069	1	Right bracket
	93	80-6700031-B	1	Left bracket
	94	80-6708209	1	Handle
	97	A30.04.017-02	4	Cap
	98	M6-6gx14.88.35.019 GOST 7798-70	2	Bolt
	99	C 8.01.019 GOST 6958-78	20	Washer

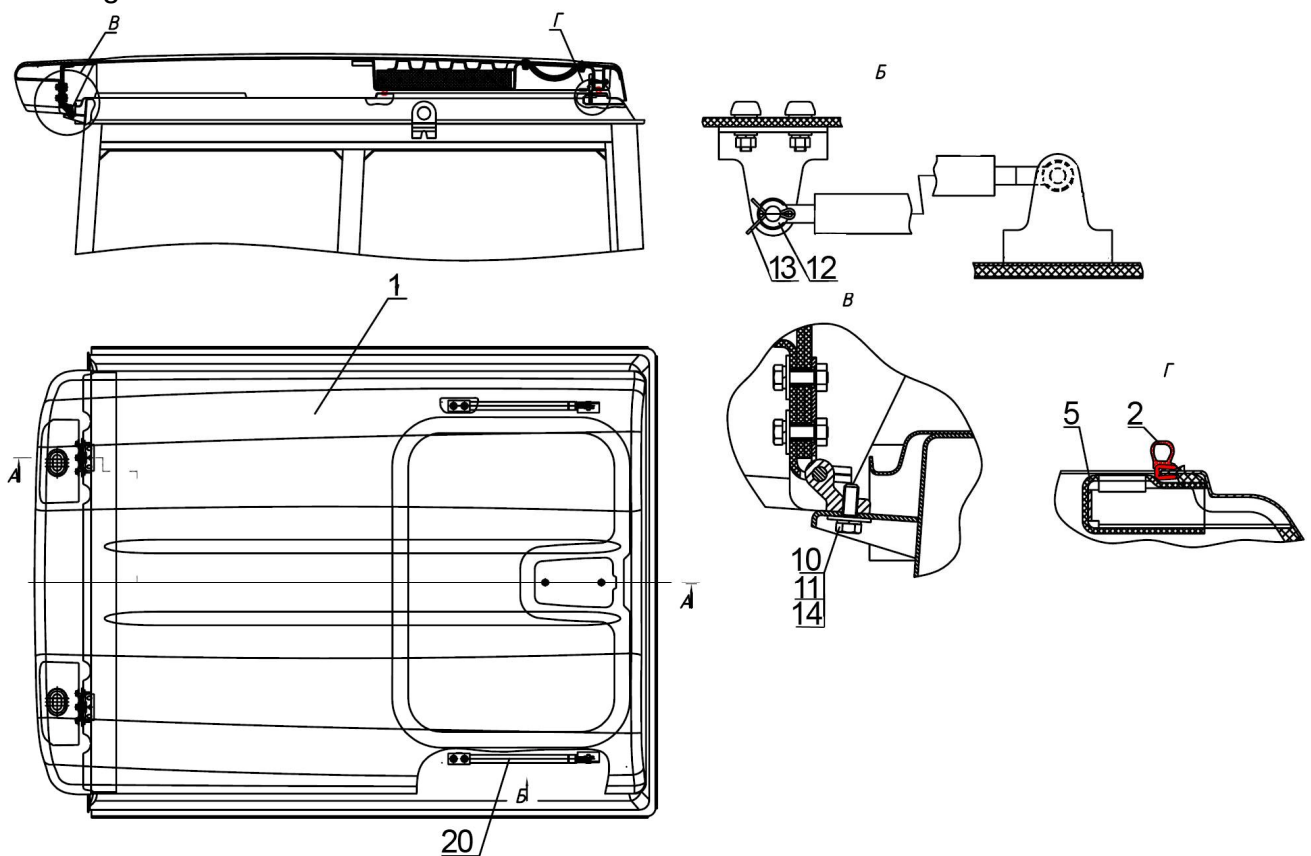
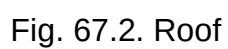


Fig.67.3. Roof

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.2	1	80-6707020-01	2	Hinge
	2	Д82-6707030	1	Upholstery
	3	80-6707080	1	Handrail
	4	A37.09.010	1	Latch
	5	80-6708225	2	Bracket
	10	549A-1305044	2	Ring
	11	A30.04.017	6	Cap
	12	80x-8400026	2	Ring
	20	M6-6gx45.88.35.019 GOST 7795-70	2	Bolt
	21	M8-6gx25.88.35.019 GOST 7796-70	6	Bolt
	22	M6-6gx18.88.35.019 GOST 7798-70	4	Bolt
	23	M6-6gx25.88.35.019 GOST 7798-70	2	Bolt
	24	B.M6-6gx25.58.019 GOST 17473-80	6	Screw
	25	M6-6H.6.019 GOST 5915-70	6	Nut
	26	C 6.01.019 GOST 11371-78	10	Washer
	27	C 8.01.019 GOST 11371-78	6	Washer
	28	6T OST 37.001.115-75	6	Washer
	29	8T OST 37.001.115-75	6	Washer
	35	Д82-6707035	1	Roof

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.3	1	Д82-6707025	1	Roof
	2	A37.08.045	1	Seal
	5	80-6700027	1	Casing
	10	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	11, 12	C 8.01.019 GOST 11371-78	6	Washer
	13	3,2x18.019 GOST 397-79	4	Forelock
	14	8T OST 37.001.115-75	2	Washer
	20	6700.01	2	Air lift

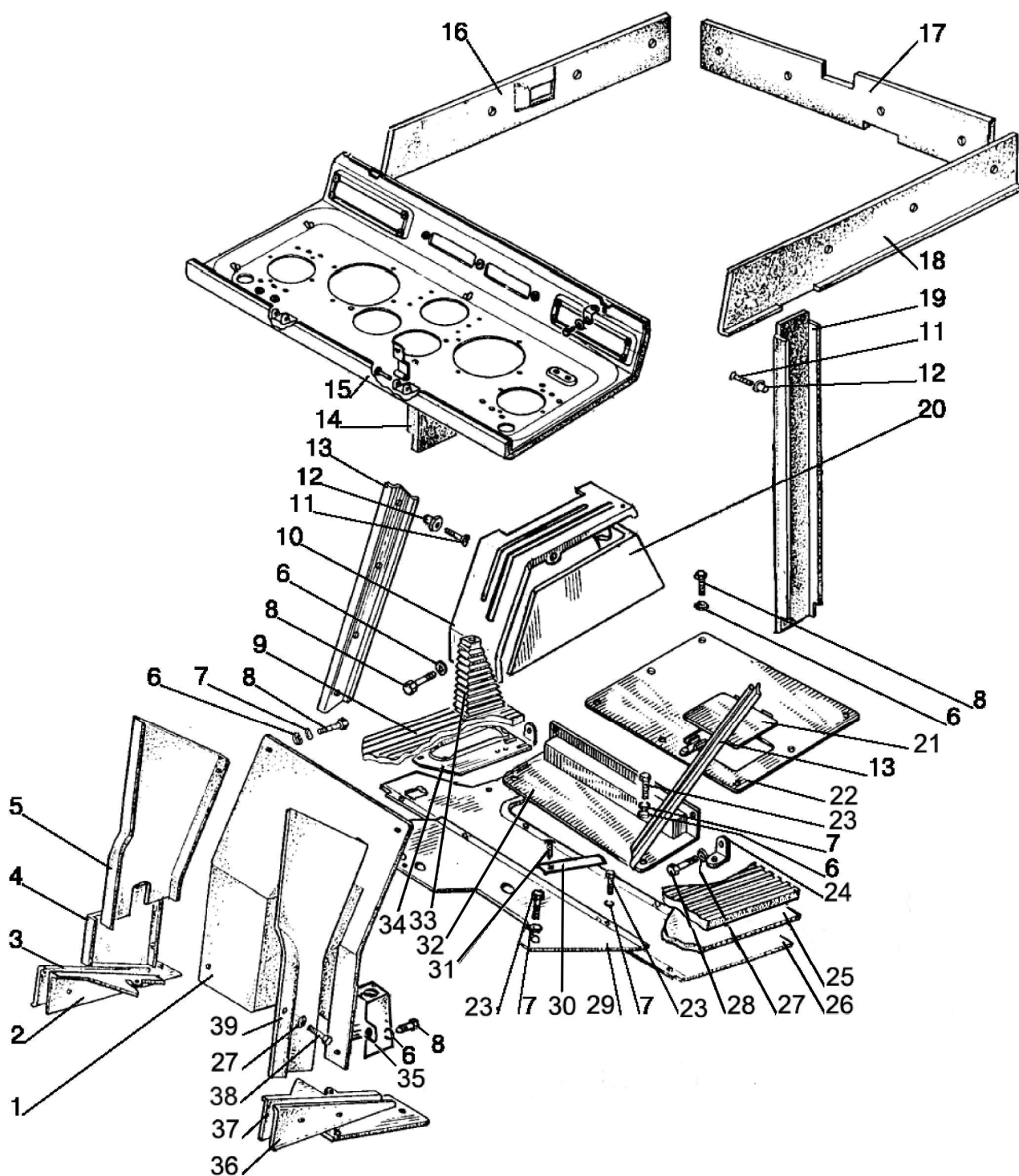


Fig. 67.4. Cabin floor

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.4	1	80-6700300	1	Panel
	2	80-6702330	1	Lining
	3	80-6702328-01	1	Cross bar
	4	85-6700330	1	Panel
	5	85-6700340	1	Panel
	6	C 6.01.019 GOST 11371-78	16	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	85-6700036-B	1	Cover
	11	1-4x25.019 GOST 1144-80	28	Male screw
	12	A37.10.031	28	Bonka
	13	80-6702111-B	2	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-B	1	Board
	21	80-6702190-B	1	Cover
	22	85-6702390-B	1	Cover
	23	M6-6gx16.88.35.019 GOST 7798-70	16	Bolt
	24	70-6702111	2	Elbow
	25	80-6702468-A	1	Gasket
	26	80-6702315-B	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 1	Casing (rubber) Casing (vinyl-leather)
	34	80-6702820	1	Lining
	35	80-6700370-B	1	Casing
	36	80-6702328	1	Cross bar
	37	80-6702320	1	Lining
	38	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	39	80-6700320	1	Panel

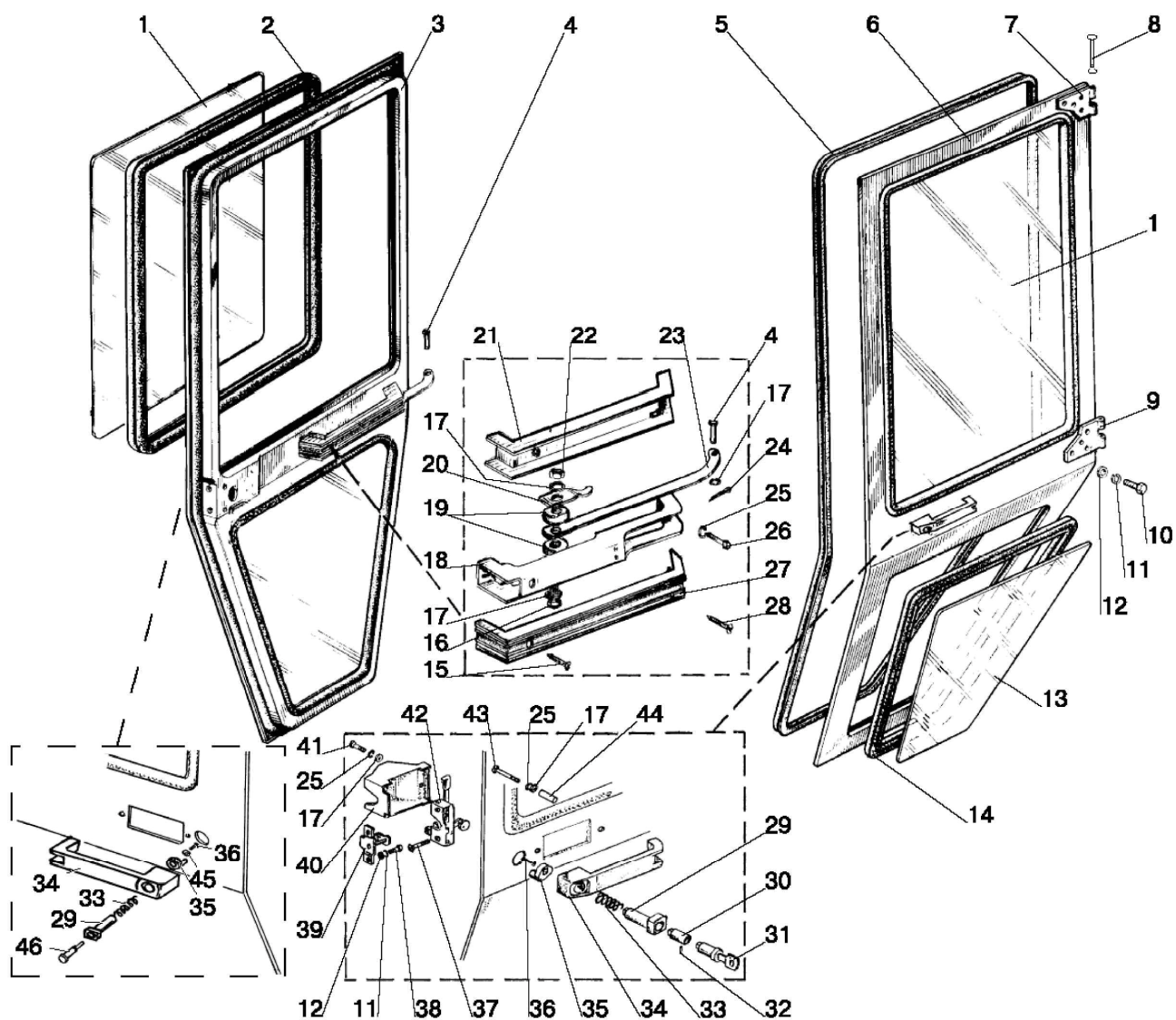


Fig. 67.5. Cabin doors

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.5		80-6708010-B	1	Left door (1, 2, 5-7, 9-14)
		80-6708010-B-01	1	Right door (1-3, 5, 7, 9-14)
		80-6105300-A1		Left handle (29-36)
		80-6105330-A1		Right handle (33-36, 45-47)
	1	80-6708013-A or 80-6708013-A1	2	Glass
	2	A37.08.043-02	2	Seal L=2720 mm
	3	80-6708020-B-03	1	Right door
	4	8x22 OST 37.001.163-75	2	Pin
	5	80-6700021-A	2	Profile
	6	80-6708020-B-02	1	Left door
	7	A37.03.022-B	2	Upper hinge
	8	822-6700011-01	10	Pin
		5T OST 37.001.115-75	10	Washer
	9	A37.03.022-B-01	2	Lower hinge
	10	M8-6gx25.88.35.019 GOST 7796-70	12	Bolt
	11	8T OST 37.001.115-75	12	Washer
	12	C 8.01.019 GOST 11371-78	12	Washer
	13	80-6708014-A or 80-6708014-A1	2	Glass
	14	A37.08.043-03	2	Seal
	15	1-4x40.019 GOST 1144-80	2	Male screw
	16	M6-6gx35.88.35.019 GOST 7798-70	2	Bolt
	17	C 6.01.019 GOST 11371-78	6	Washer
	18	80-6708610	2	Handrail
	19	80-6708619	4	Bumper
	20	80-6708618	2	Spring
	21	80-6708602	2	Lining
	22	M6-6H.019 TU 23.1.505-91	2	Nut
	23	80-6708616	2	Lever
	24	3,2x18.019 GOST 397-79	2	Forelock
	25	6T OST 37.001.115-75	6	Washer
	26	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	27	80-6708603	2	Lining
	28	1-4x25.019 GOST 1144-80	2	Male screw
	29	80-6105301	2	Button
	30	80-6105304-B1	1	Bushing
	31	945.025.11.01.00	1	Cylinder mechanism
	32	2x11,8B3 GOST 6870-81	2	Roller
	33	80-6105302	2	Spring
	34	80-6105305	2	Handle
	35	80-6105303	2	Pusher
	36	4x10.019 TU RB 400024166.001-2000	2	Male screw
	37	B.M8-6gx25.58.019 GOST 17475-80	4	Screw
	38	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	39	80-6105170-B	2	Latch
	40	80-6708812	1	Left cover
		80-6708812-01	1	Right cover
	41	B.M6-6gx16.58.019 GOST 17475-80	2	Screw
	42	80-6105050	1	Left lock
		80-6105050-01	1	Right lock
	43	B.M6-6gx45.58.019 GOST 17473-80	2	Screw
	44	80-6708813	2	Bushing
	45	C 4.01.019 GOST 6958-78	2	Washer
	46	80-6105331-B	1	Pusher

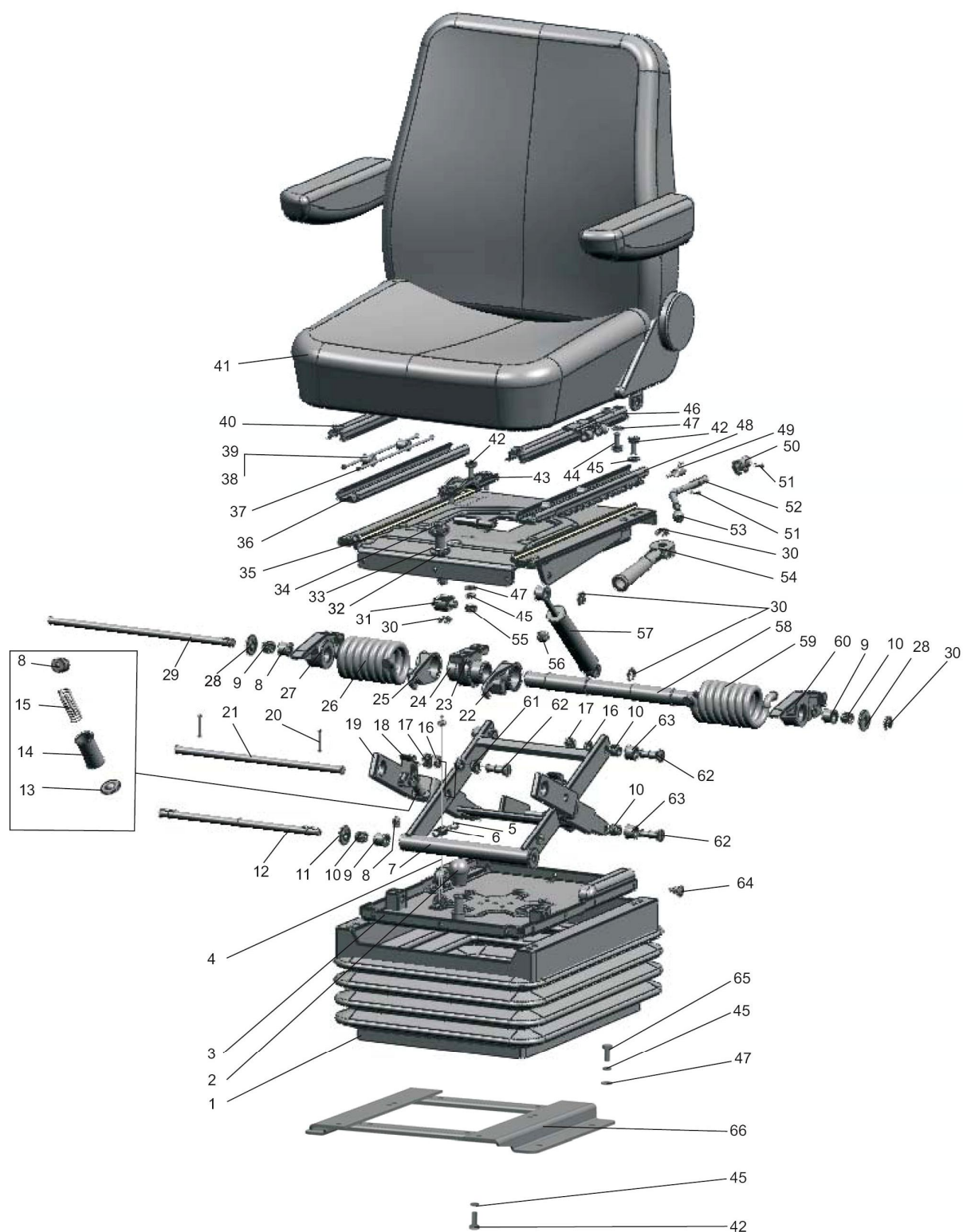


Fig.68.1. Operator seat

Group 68. Driver seat
Subgroup 6800. Operator seat

Fig.No	Pos.No	Designation	Q-ty	Name
68.1		80-6800010	1	Seat (1-64)
		80-6800010-01	1	Seat (1-64)
		«Grammer MSG85/721»*	1	Seat
	1	80B-6800108	1	Casing
	2	A61.01.014	1	Handle
	3	80B-6801560	1	Base
	4	80B-6801240	1	Rope
	5	B.M5-6gx16.58.019 GOST 17473-80	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 GOST 24310-80	8	Bearing
	11	80B-6801033-01	2	Washer
	12	80B-6801508	1	Axis
	13	80B-6801519	2	Foot pad
	14	80B-6801518	2	Sleeve
	15	80B-6801530-Б	2	Spring
	16	12 OT OST 37.001.115-75	6	Washer
	17	M10-6H.04.019 GOST 5919-73	6	Nut
	18	80B-6801581	2	Pawl
	19	80B-6801570	1	Frame
	20	4x22.019 GOST 397-79	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 GOST 3722-81	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 GOST 18829-73/9833-73	4	Ring
	40	80-6800110-01	1	Rail
	41	CT-154T.6800010	1	Seat
		CT-154TM.6800010	1	Seat
	42	M8-6gx20.88.35.019 GOST 7796-70	11	Bolt
	43	80B-6801031	1	Enhancer
	44	B.M8-6gx25.58.019 GOST 1491-80	4	Screw
	45	8T OST 37.001.115-75	15	Washer
	46	80-6800110	1	Rail
	47	C 8.01.019 GOST 11371-78	10	Washer
	48	80-6800120	1	Guide
	49	80-6800103	1	Spring

* Upon request

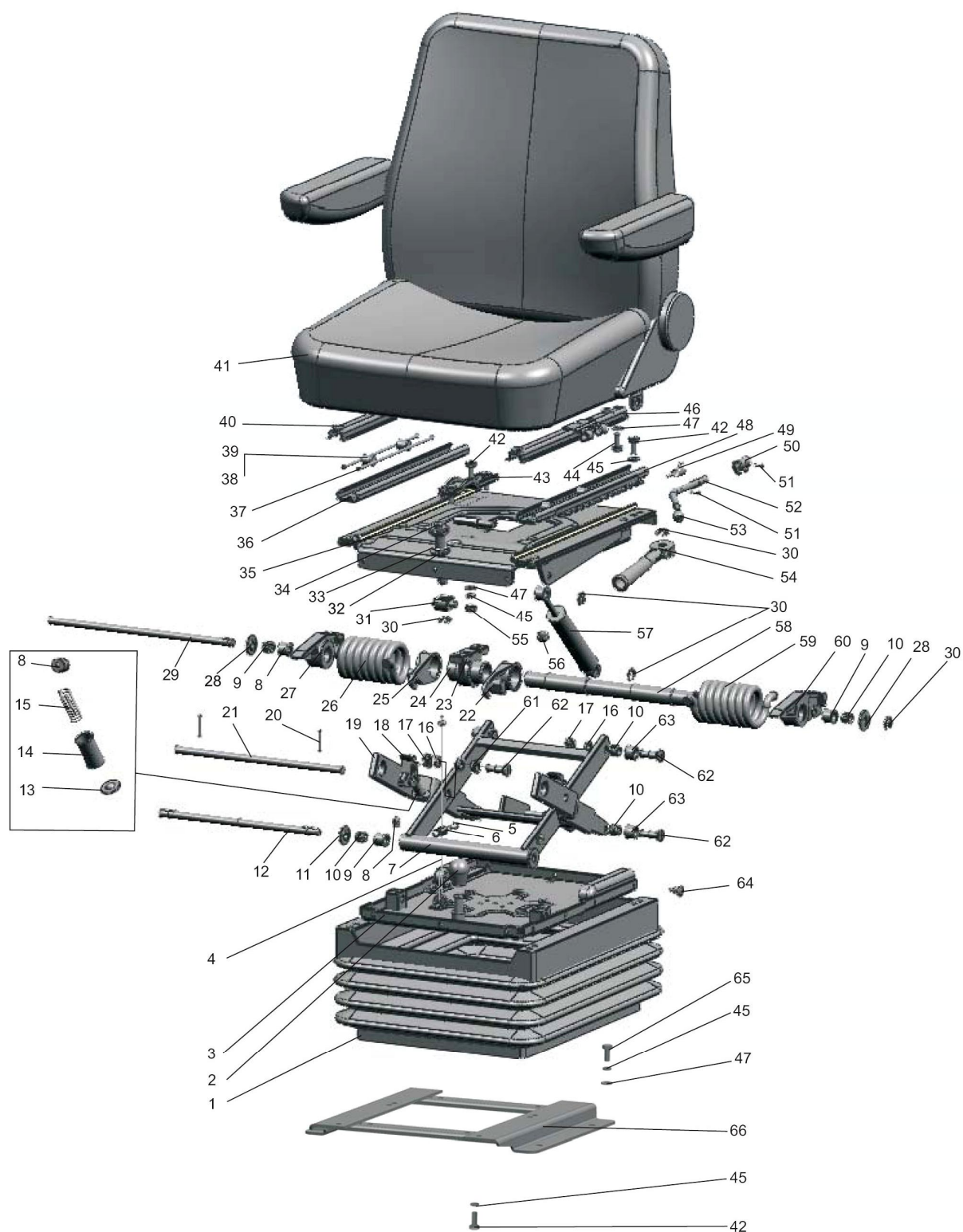


Fig.68.1. Operator seat

Group 68. Driver seat
Subgroup 6800. Operator seat

Fig.No	Pos.No	Designation	Q-ty	Name
68.1	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	M8-6H.04.019 GOST 5916-70	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	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	66	80B-6807200	1	Bracket

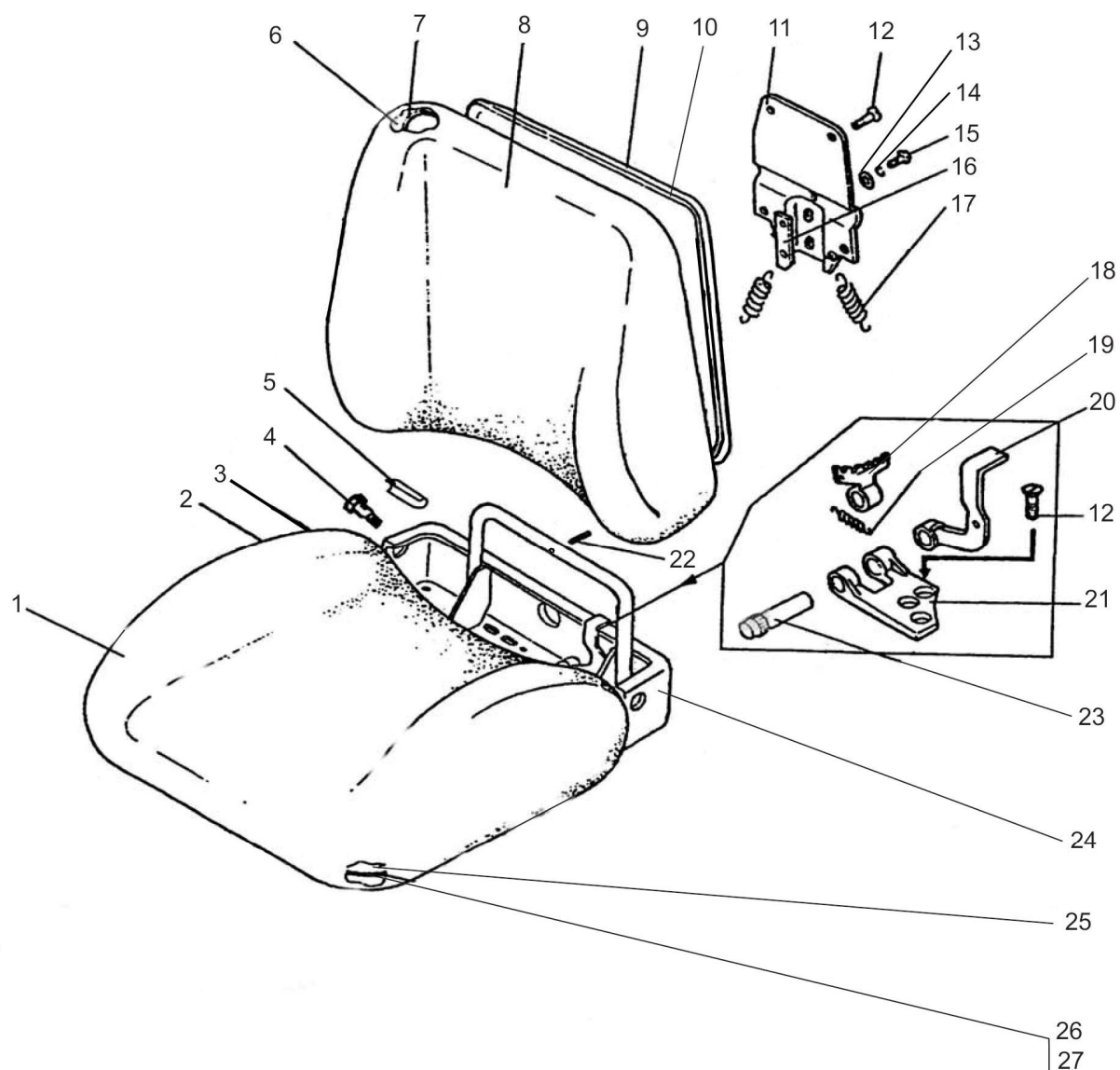


Fig.68.2. Operator seat

Group 68. Driver seat
Subgroup 6804. Operator seat

Fig.No	Pos.No	Designation	Q-ty	Name
68.2		80B-6804000	1	Seat (1-27)
	1	80B-6804500	1	Casing
	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	Casing
	9	ППР26-04	1	Profile
	10	80B-6805010	1	Base
	11	80B-6804040	1	Support
	12	B.M8-6gx16.58.019 GOST 17475-80	7	Screw
	13	C 6.01.019 GOST 11371-78	2	Washer
	14	6T OST 37.001.115-75	2	Washer
	15	M6-6gx14.88.35.019 GOST 7798-70	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	4x25.019 GOST 397-79	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

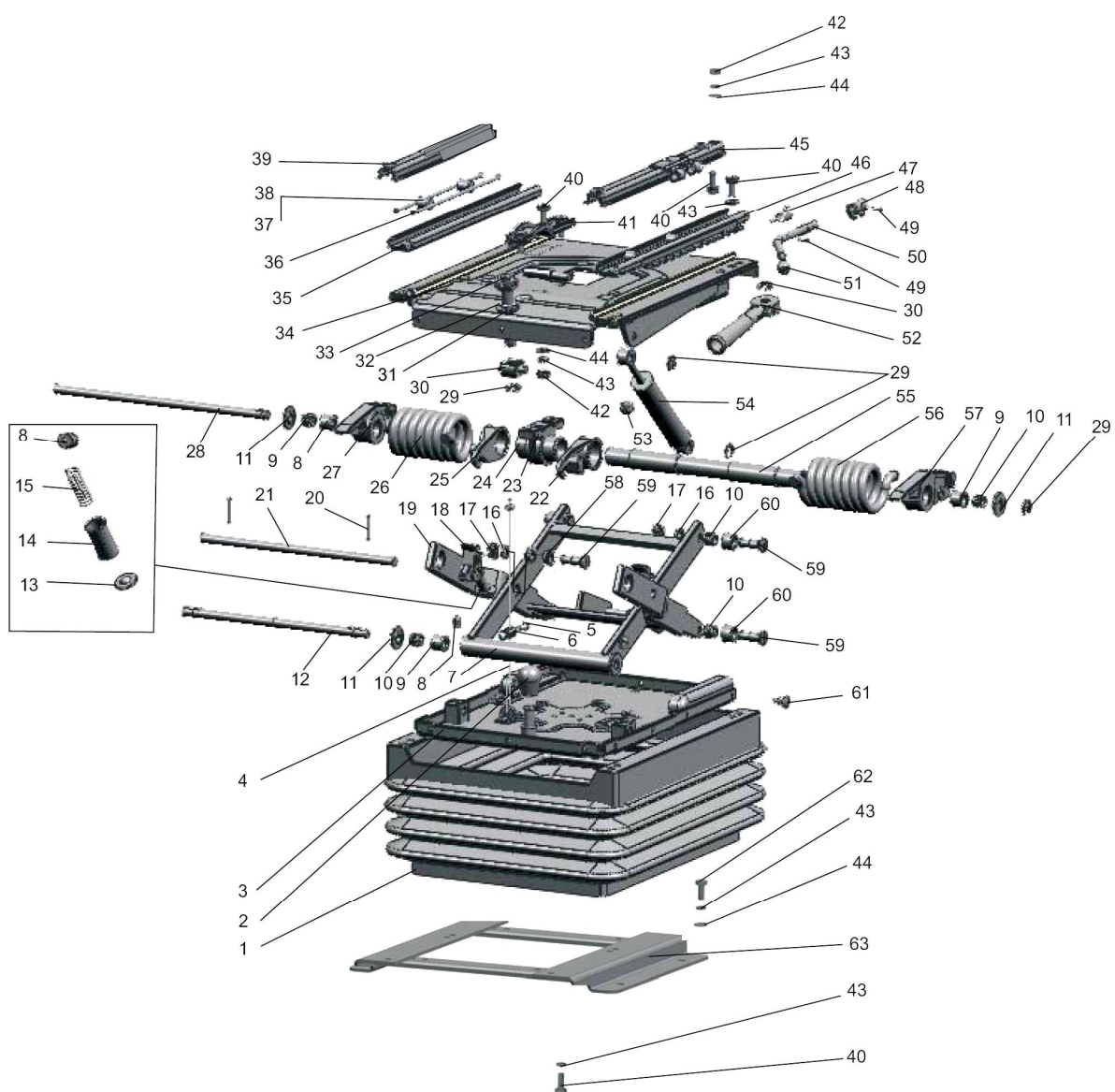


Fig.68.3. Seat suspension

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

Fig.No	Pos.No	Designation	Q-ty	Name
68.3		80-6801500	1	Suspension
	1	80B-6800108	1	Casing
	2	A61.01.014	1	Handle
	3	80B-6801560	1	Base
	4	80B-6801240	1	Rope
	5	B.M5-6gx16.58.019 GOST 17473-80	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 GOST 24310-80	8	Bearing
	11	80B-6801033	4	Washer
	12	80B-6801508	1	Axis
	13	80B-6801519	2	Foot pad
	14	80B-6801518	2	Sleeve
	15	80B-6801530-Б	2	Spring
	16	10 OT OST 37.001.115-75	6	Washer
	17	M10-6H.04.019 GOST 5919-73	6	Nut
	18	80B-6801581	2	Pawl
	19	80B-6801570	1	Frame
	20	4x22.019 GOST 397-79	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 GOST 3722-81	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 GOST 18829-73/9833-73	4	Ring
	39	80-6800110-01	1	Rail
	40	M8-6gx20.88.35.019 GOST 7796-70	15	Bolt
	41	80B-6801031	1	Enhancer
	42	M8-6H.04.019 GOST 5916-70	5	Nut
	43	8T OST 37.001.115-75	19	Washer
	44	C 8.01.019 GOST 11371-78	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
	51	70-6801082	1	Handle

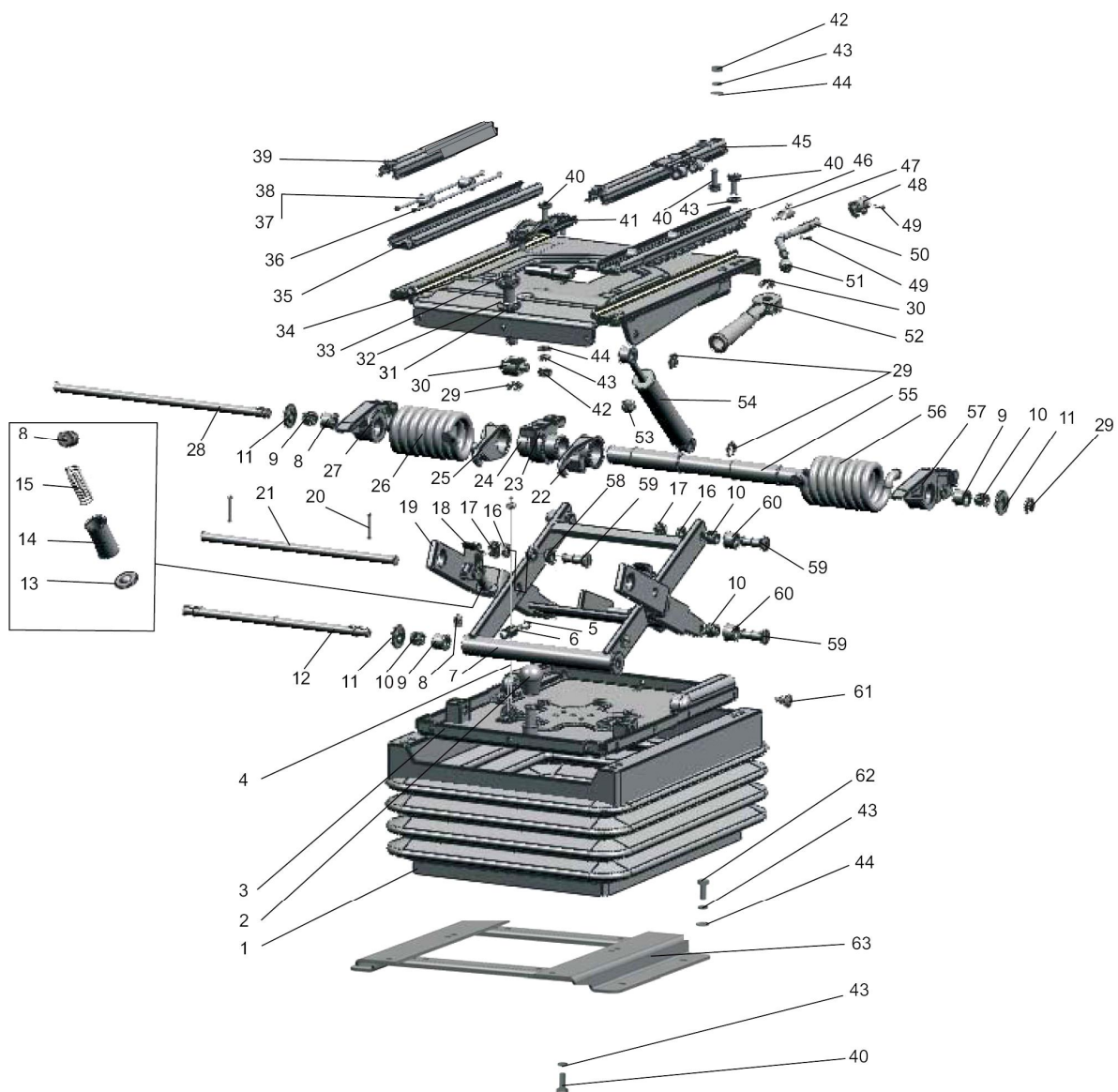


Fig.68.3. Seat suspension

Group 68. Driver seat
Subgroup 6801. Seat suspension

Fig.No	Pos.No	Designation	Q-ty	Name
68.3	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	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	63	80B-6807200	1	Bracket

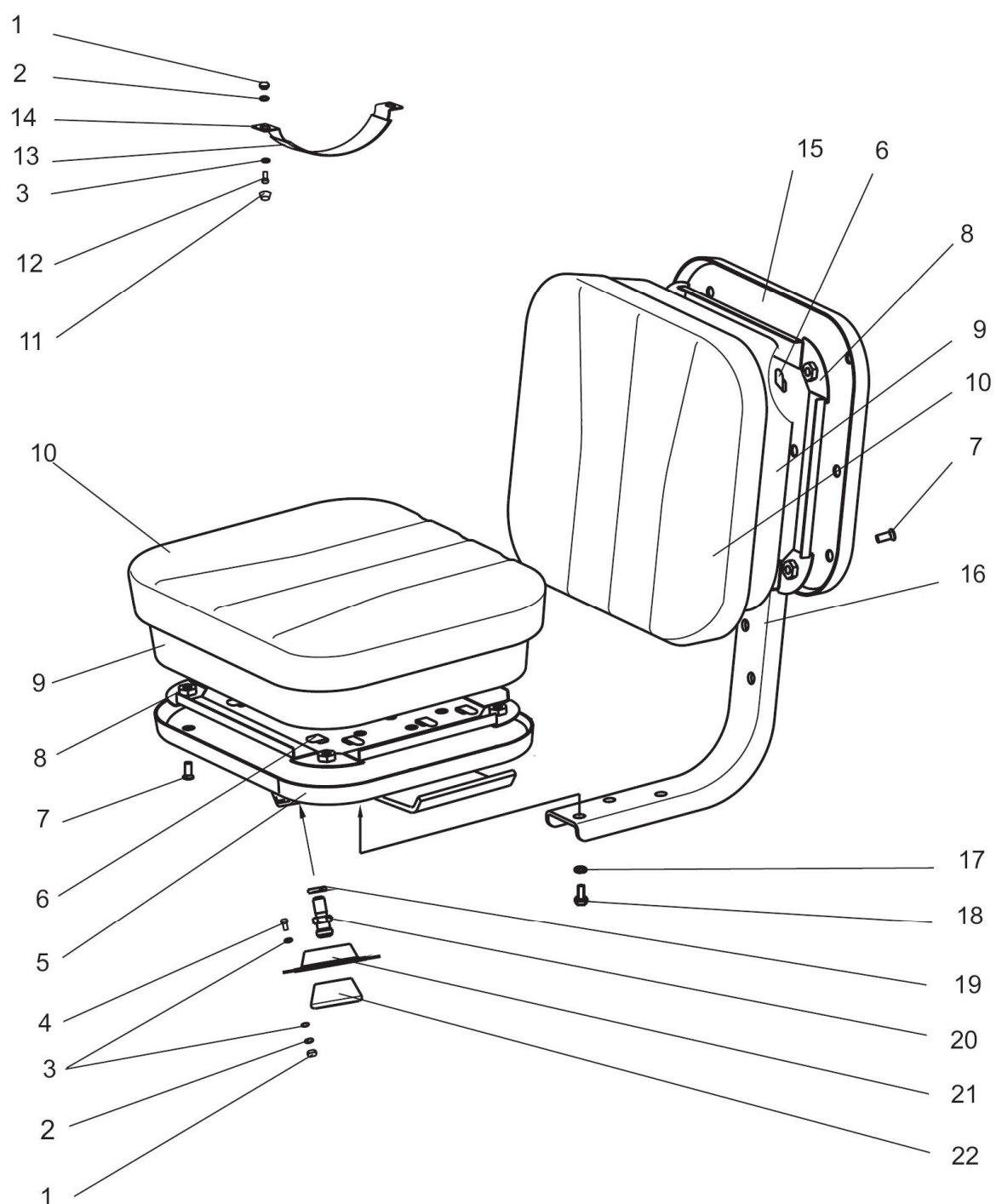


Fig.68.4. Additional seat

Group 68. Driver seat
Subgroup 6809. Additional seat

Fig.No	Pos.No	Designation	Q-ty	Name
68.4	1	M6-6H.6.019 GOST 5915-70	6	Nut
	2	6T OST 37.001.115-75	6	Washer
	3	C 6.01.019 GOST 11371-78	10	Washer
	4	M6-6gx30.88.35.019 GOST 7798-70	4	Bolt
	5	1221-6809020	1	Base
	6	2522-6809012	20	Clamp
	7	B.M8-6gx16.58.019 GOST 17475-80	8	Screw
	8	2522-6809030	2	Framework
	9	2522-6809011	2	Cushion
	10	2522-6809040	2	Casing
	11	A30.04.017	2	Cap
	12	M6-6gx16.88.35.019 GOST 7798-70	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	8T OST 37.001.115-75	6	Washer
	18	M8-6gx16.88.35.019 GOST 7796-70	6	Bolt
	19	10 OT OST 37.001.115-75	2	Washer
	20	70-6700031	2	Holder
	21	70-6700116	2	Lining
	22	50-3711038	2	Light support

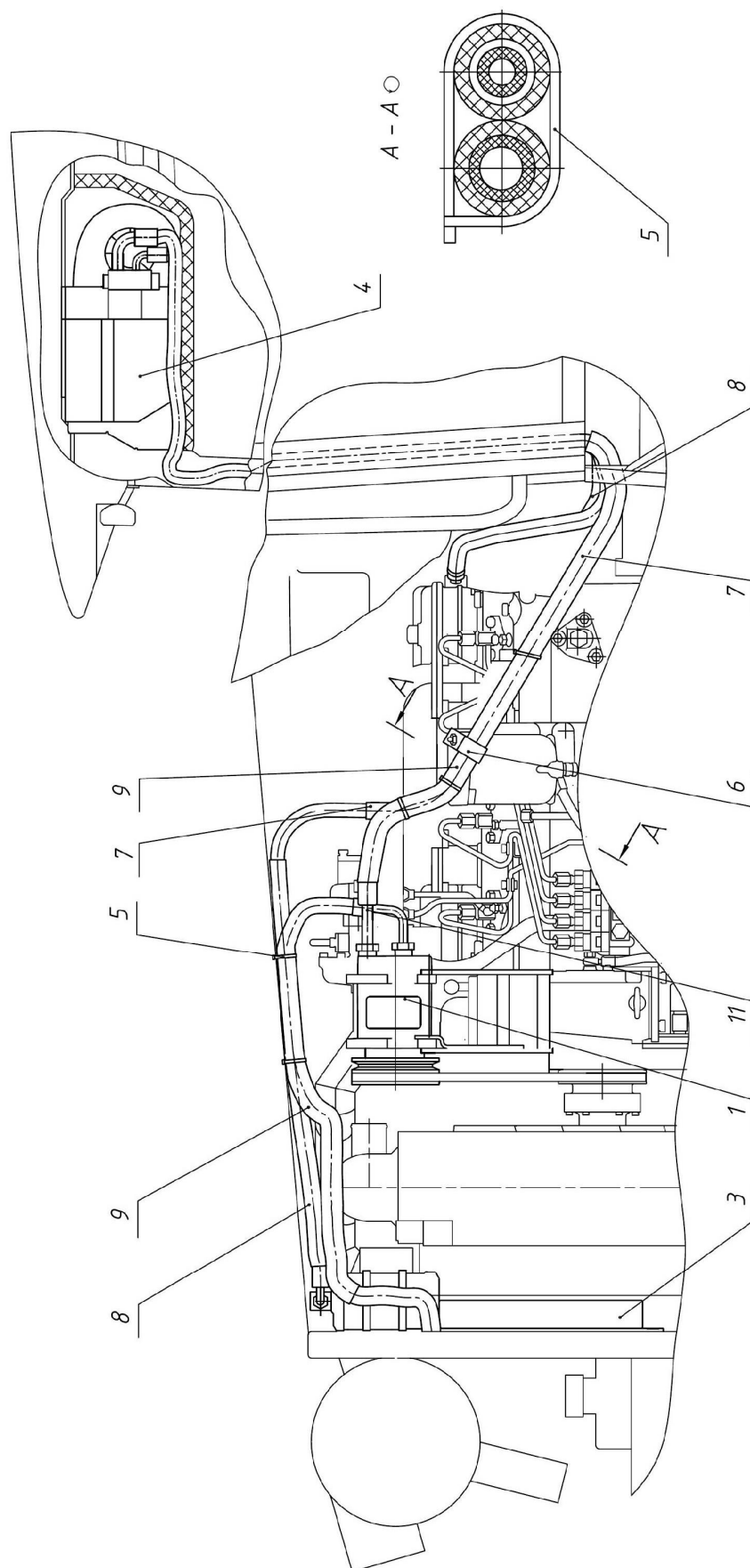


Fig.81.1 Air conditioner installation

Group 81. Conditioner system
Subgroup 8100. Air conditioner installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
81.1		1025.4-8100005	1	Air conditioner installation
	1	1025.4-8114010	1	Compressor of air conditioner
	3	1025-8112010	1	Condenser installation
	4	1221.1-8101010-02	1	Heater-cooler installation
	5	П80-4607013	1	Clamp
	6	80-3723045-01	12	Collar
	7	2822ДЦ-81000013-01	2	Hose (L=300 mm)
	8	3022-81000012	2	Hose (L=800 mm)
	9	3022-81000012-01	2	Hose (L=600 mm)
	11	MT8100000-01	1	Conditioner

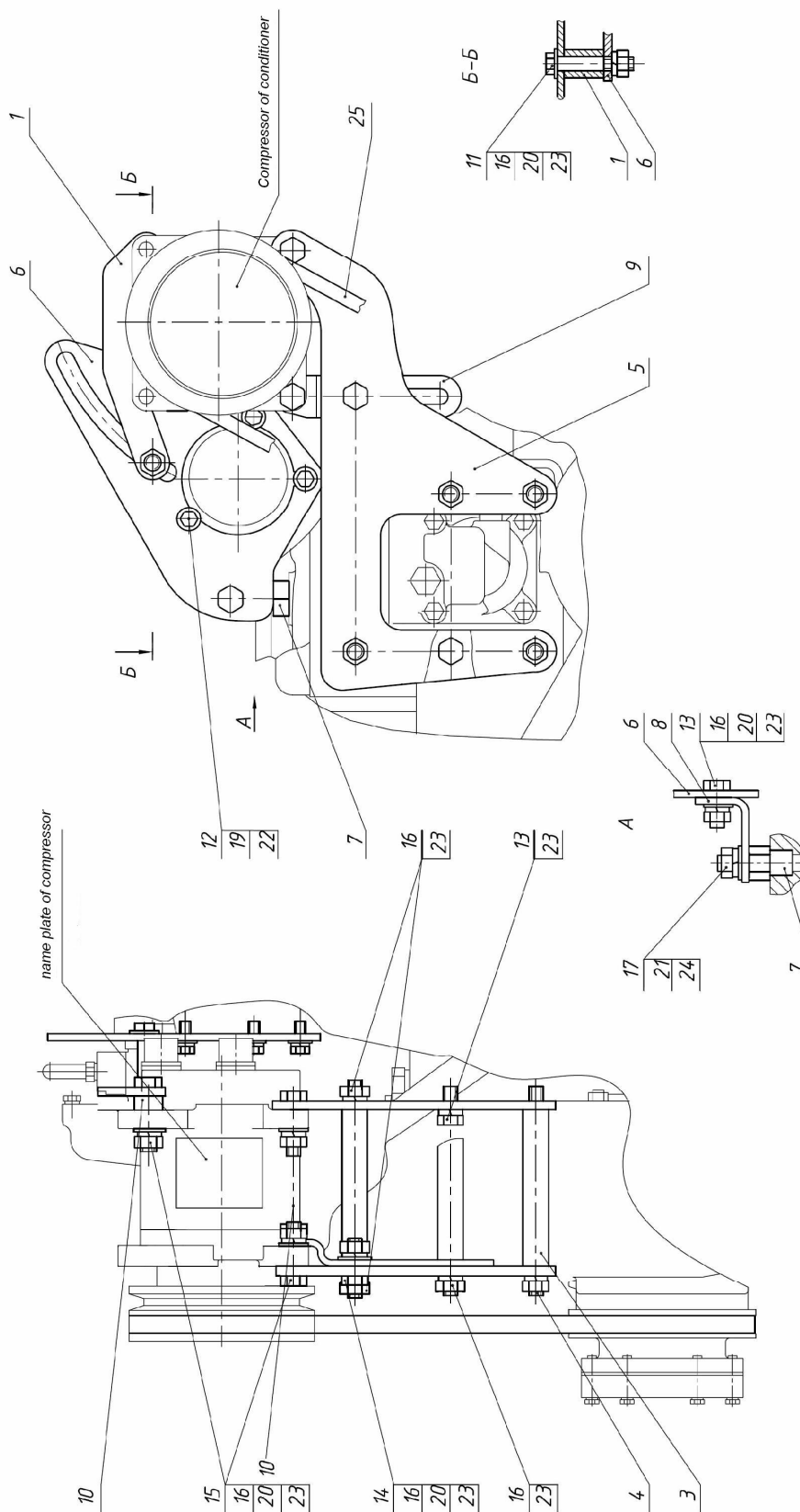


Fig.81.2 Compressor installation

Group 81. Conditioner system
Subgroup 8114. Compressor installation

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
81.2		1025.4-8114010	1	Compressor installation
	1	1025-8114020-01	1	Lever
	3	1025.4-8114012	4	Bushing
	4	1025.4-8114014	4	Stud
	5	1025-8114011	2	Bracket
	6	1025-8114013	1	Quadrant
	7	1025-8114016	1	Adapter
	8	1025-8114017	1	Elbow
	9	1025-8114018	1	Plate
	11	M10-6gx60.88.35.019 GOST 7795-70	1	Bolt
	12	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	13	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	14	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	15	M10-6gx40.88.35.019 GOST 7796-70	5	Bolt
	16	M10-6H.6.019 GOST 5915-70	13	Nut
	17	M12-6H.6.019 GOST 5915-70	1	Nut
	19	C.8.01.019 GOST 11371-78	3	Washer
	20	C.10.01.019 GOST 11371-78	7	Washer
	21	C.12.01.019 GOST 11371-78	1	Washer
	22	8T OST 37.001.115-75	3	Washer
	23	10 OT OST 37.001.115-75	14	Washer
	24	12 OT OST 37.001.115-75	1	Washer
	25		1	Belt AVX 13x1200

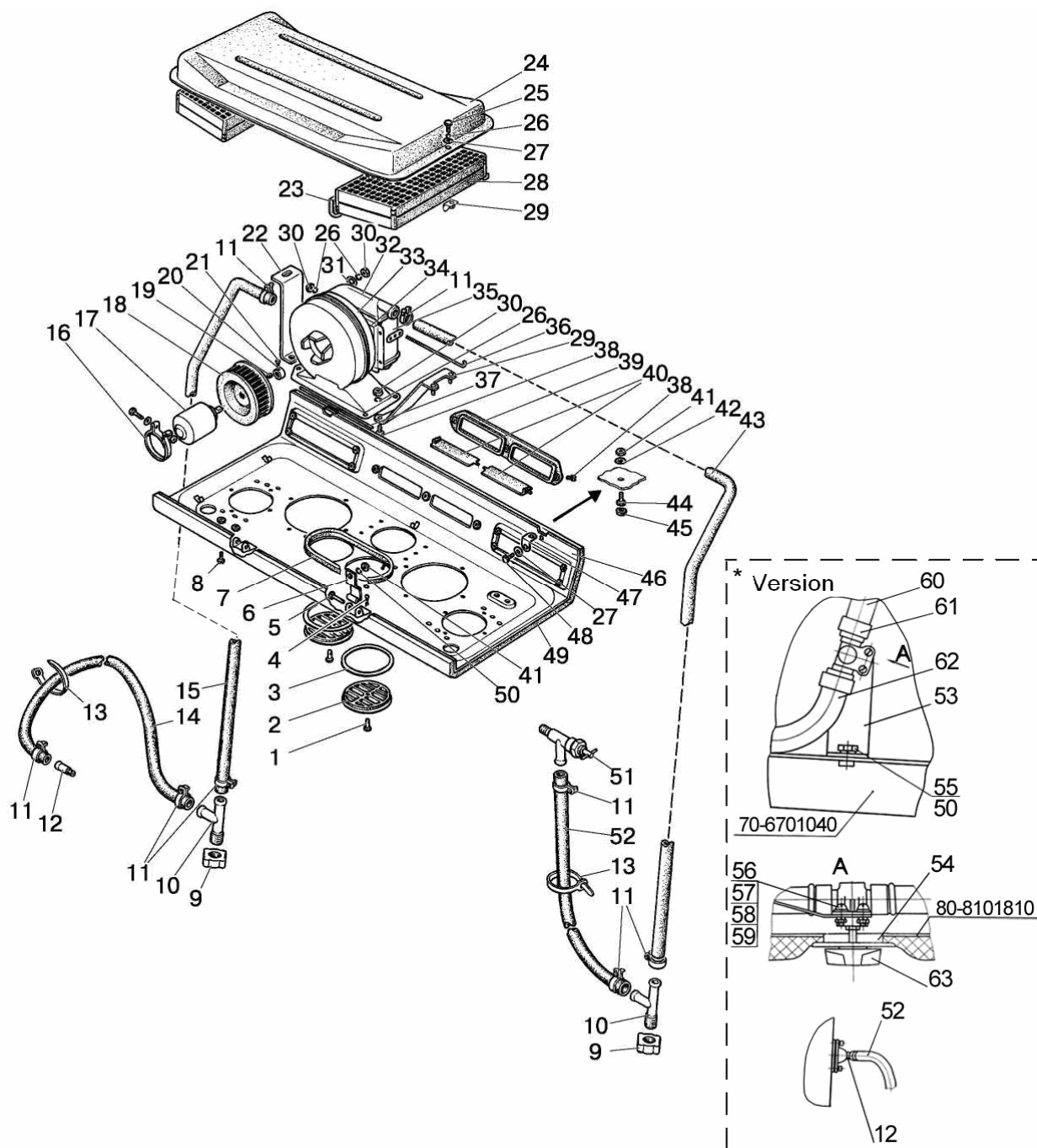


Fig.81.3. Heater (upon request)

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

Fig.No	Pos.No	Designation	Q-ty	Name
81.3		80-8101720		Heater (16-22, 26, 29-36)
		80-8101810		Panel (1-8, 27, 37-40, 46, 47-49)
		80-8101830		Heater fittings (9-15, 43,51,52)
	1	6x18 OST 37.001.163-75	2	Pin
	2	150.95.301	2	Air distributor
	3	80-8100013	2	Lining
	4	2x12.019 GOST 397-79	2	Forelock
	5	50-8400031	2	Axis
	6	80-8100048	2	Hinge
	7	80-8101714-07	1	Seal
	8	2x12.019 GOST 397-79	2	Forelock
	9	80-8100052	2	Plug
	10	80-8100051	2	Three way pipe
	11	XC-23	8	Clamp
	12	80-8100023	1	Adapter
	13	80-3723045-01	3	Collar
	14	80-8102015-02	1	Hose L=1740 mm
	15	80-8101015	1	Hose L=2080 mm
	16	XC-76	1	Clamp
	17	9742.3730	1	Electromotor
	18	80-8104034	1	Rotor
	19	M4-6H.6.019 GOST 5927-70	1	Nut
	20	80-8104039	1	Ring
	21	B.M4-6gx10.58.019 GOST 17473-80	1	Screw
	22	80-8101721	1	Tension member
	23	80-8101714-04	2	Seal
	24	80-8101760	1	Cover
	25	M6-6gx20.88.35.019 GOST 7798-70	2	Bolt
	26	6T OST 37.001.115-75	11	Washer
	27	C 6.01.019 GOST 6958-78	4	Washer
	28	80-8104070	2	Filter
	29	80-8101820	1	Suspension
	30	M6-6H.6.019 GOST 5915-70	10	Nut
	31	C 6.01.019 GOST 11371-78	3	Washer
	32	70Y-8101070-A or	1	Heater radiator
		PO-8101070 or	1	Heater radiator
		41.035-1013010 or	1	Heater radiator
		1216-8101060	1	Heater radiator
	33	80-8101730-A	1	Casing
	34	ПП32-06	2	Seal
	35	80-8101800	1	Box
	36	80-3703046-A	1	Stud
	37	80-8100014	1	Stem
	38	B.M6-6gx20.58.019 GOST 17474-80	6	Screw
	39	80-8100011-B	1	Cover
	40	80-8100012	2	Shutter
	41	M8-6H.6.019 GOST 5915-70	4	Nut
	42	C 8.01.019 GOST 6958-78	2	Washer
	43	80-8102015	1	Hose L=2230 mm
	44	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	45	A30.04.017-01	2	Cap
	46	80-8100100	1	Panel
	47	70-6702111	2	Elbow

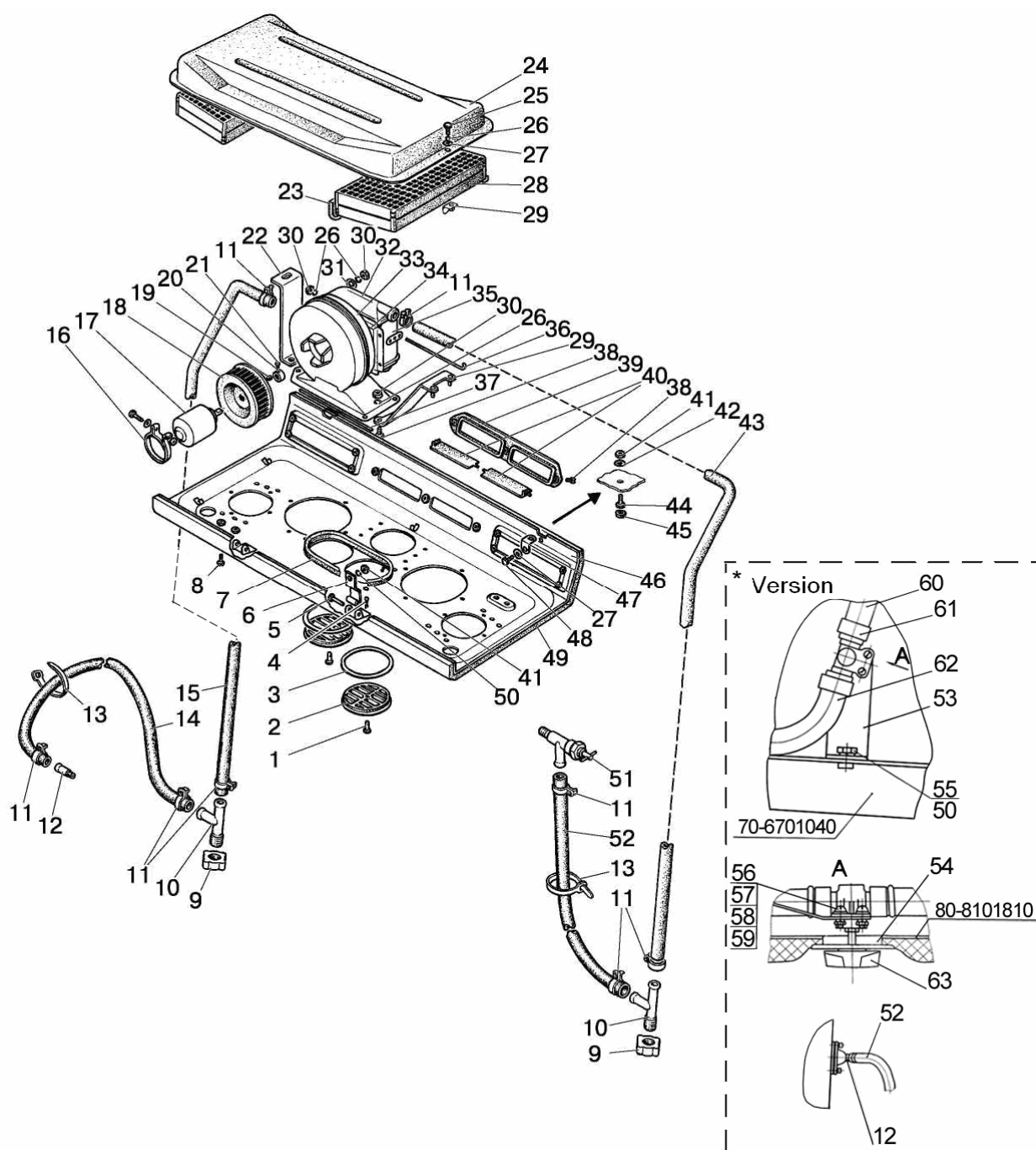


Fig.81.3. Heater (upon request)

Subgroup 8101. Heater

Fig.No	Pos.No	Designation	Q-ty	Name
81.13	48	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	49	80-8101713	1	Upholstery
	50	8T OST 37.001.115-75	4	Washer
	51	BC-11	1	Cock
	52	80-8102015-03	1	Hose L=450 mm
	53	80-8101021	1	Hose
	54	80-8101811	1	Lining
	55	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	56	B.M5-6gx10.58.019 GOST 17473-80	2	Screw
	57	M5-6H.6.019 GOST 5915-70	2	Nut
	58	C 5.01.019 GOST 11371-78	2	Washer
	59	5T OST 37.001.115-75	2	Washer
	60	822-8101021	1	Hose
	61	XC-23	2	Clamp
	62	80-8102015	1	Hose
	63	ПО 11	1	Cock

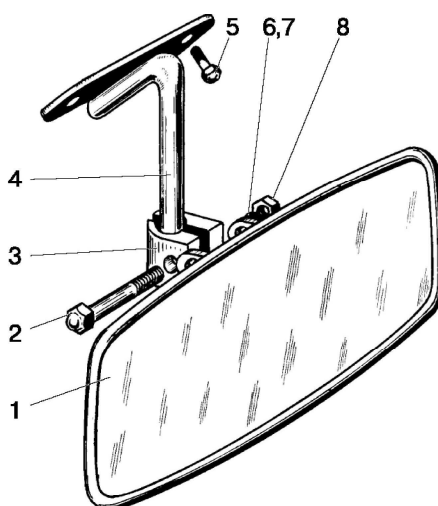


Fig.82.1. Inside rear-view mirror

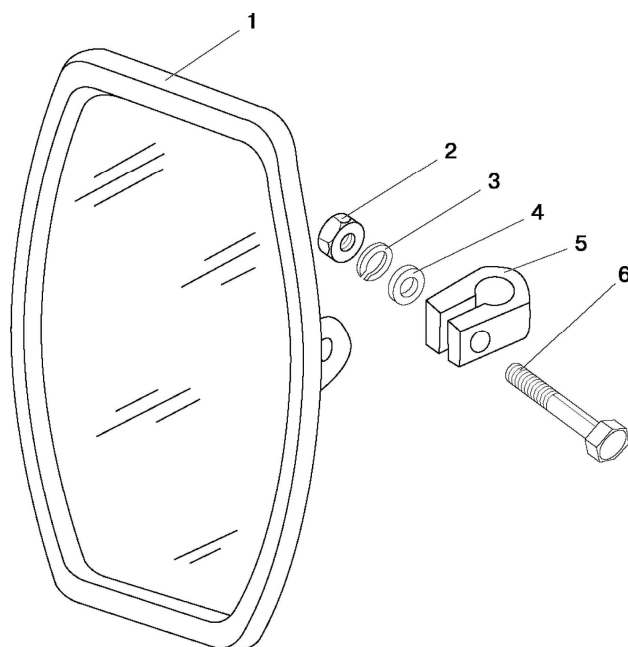


Fig.82.2. Side rear-view mirror

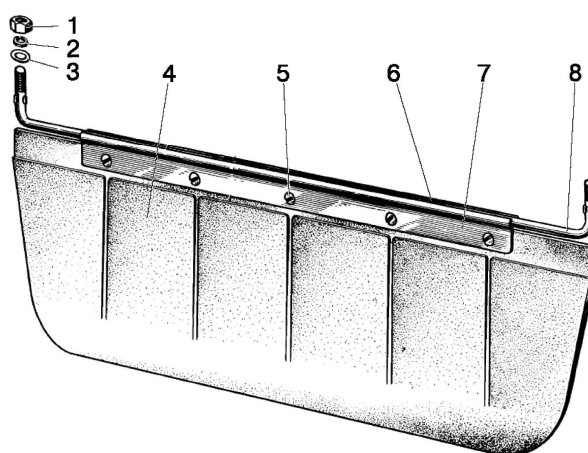


Fig.82.3. Sun visor

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

Fig.No	Pos.No	Designation	Q-ty	Name
82.1	1	80-8201035	1	Mirror
	2	M8-6gx25.88.35.019 GOST 7796-70	1	Bolt
	3	A3O.04.071	1	Clamp
	4	80П-8201025	1	Bracket
	5	B.M6-6gx16.58.019 GOST 17473-80	2	Screw
	6	C 8.01.019 GOST 11371-78	1	Washer
	7	8T OST 37.001.115-75	1	Washer
	8	M8-6H.6.019 GOST 5915-70	1	Nut

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

Fig.No	Pos.No	Designation	Q-ty	Name
82.2	1	80-8201055	2	Side rear-view mirror
	2	M8-6H.6.019 GOST 5915-70	2	Nut
	3	8T OST 37.001.115-75	2	Washer
	4	C 8.01.019 GOST 11371-78	2	Washer
	5	A3O.04.051	2	Clamp
	6	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt

Group 82. Cabin accessories
Subgroup 8204. Sun visor

Fig.No	Pos.No	Designation	Q-ty	Name
82.3		80П-8204010	1	Sun visor (4-8)
	1	M6-6H.6.019 GOST 5915-70	2	Nut
	2	6T OST 37.001.115-75	2	Washer
	3	C 6.01.019 GOST 6958-78	2	Washer
	4	70-8204011-A	1	Visor
	5	B.M4-6gx10.58.019 GOST 17473-80	5	Screw
	6	70-8204015	1	Holder
	7	70-8204014	1	Holder
	8	80П-8204011-01	1	Axis

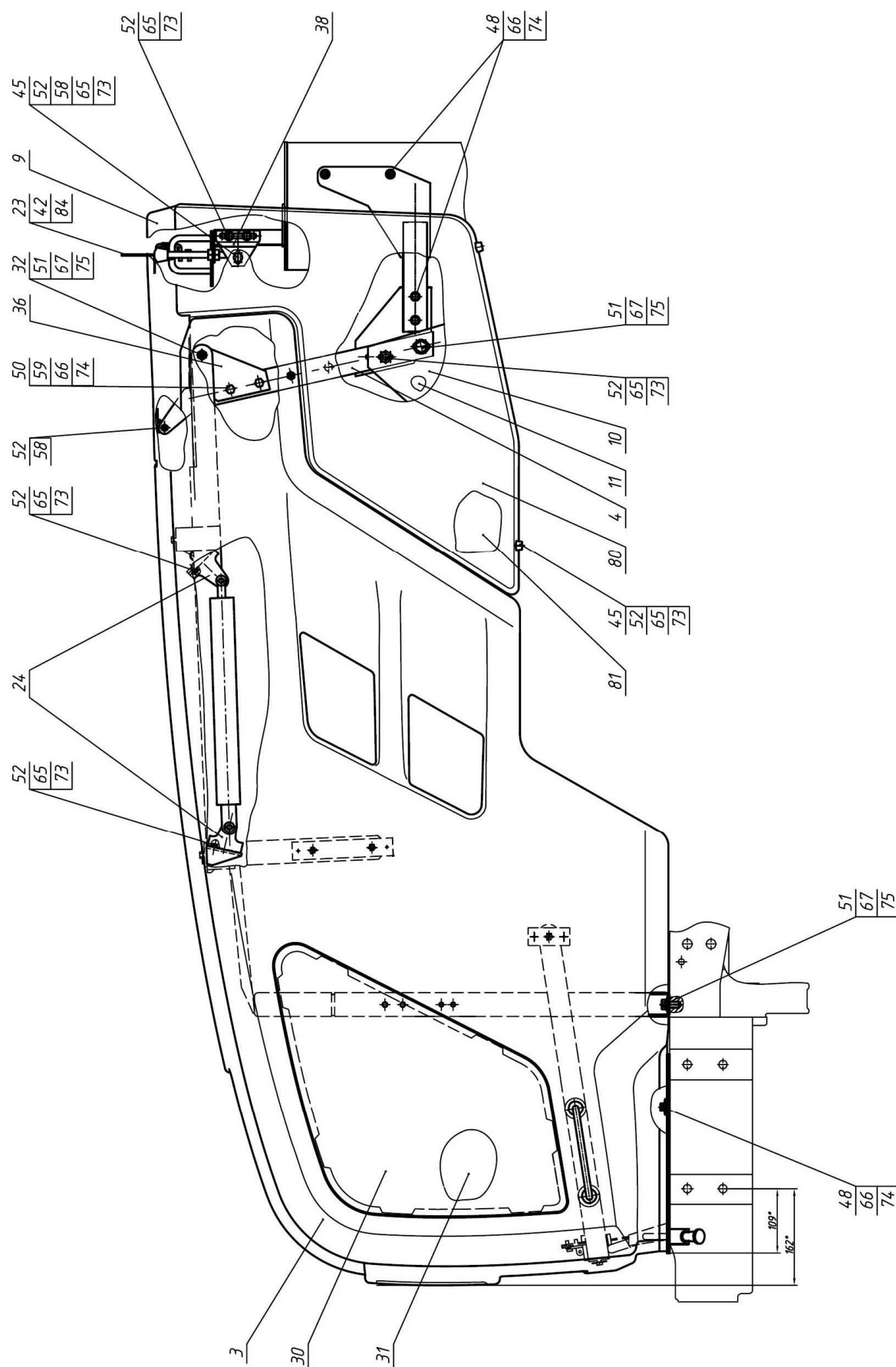


Fig.84.1 Facing (right view)

Subgroup 8400. Facing

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
84.1, 84.2, 84.3	1	921.3-8400040	1	Frame
	2	921.3-8401090	1	Grill
	3	921.3-8402020-01	1	Hood
	4	952.3-8402050-A	1	Arc
	5	921.3-8402080	1	Support
	6	921.3-8402095	1	Detent
	7	921.3-8402150	1	Bracket
	8	921.3-8402250	2	Handrail
	9	952.3-8402330	1	Hatch
	10	952.3-8402470-A	1	Support
	11	952.3-8402470-A-01	1	Support
	12	952.3-8402060	1	Bracket
	13	952.3-8402065	1	Bracket
	14	952.3-8402070	1	Bracket
	15	952.3-8402080	1	Bracket
	16	952.3-8402080-01	1	Bracket
	19	950.3-8402025-A	1	Frame
	20	950.1-8402420	1	Joke
	21	822-8400080	1	Control wire
	22	90-8400070	1	Rod
	23	80-8402410	2	Lock
	24	80-6708225-01	2	Bracket
	29	921.3-8400013	2	Buckle
	30	921.3-8400017	1	Grill
	31	921.3-8400017-01	1	Grill
	32	921.3-8400077	2	Bushing
	33	921.3-8400101	1	Bracket
	34	921.3-8400102	1	Bracket
	35	921.3-8401088	1	Grill
	36	921.3-8402071	1	Bracket
	37	921.3-8402071-01	1	Bracket
	38	952.3-8402067	2	Bracket
	39	923-8400033-02	2	Stem
	40	549A-1305044	1	Ring
	41	90-8400021	1	Clamp
	42	80-6105056	1	Handle
	43	70-4803023	1	Coupling
	44	70-3401093	2	Lever tip
	45	A30.04.017	10	Cap
	47	M8-6gx20.88.35.019 GOST 7796-70	5	Bolt
	48	M8-6gx25.88.35.019 GOST 7796-70	19	Bolt
	49	M6-6gx40.88.35.019 GOST 7795-70	4	Bolt
	50	M8-6gx40.88.35.019 GOST 7795-70	4	Bolt
	51	M10-6gx25.88.35.019 GOST 7796-70	8	Bolt
	52	M6-6gx20.88.35.019 GOST 7798-70	27	Bolt
	54	B.M5-6gx20.58.019 GOST 17473-80	2	Screw
	58	M6-6H.6.019 GOST 5915-70	8	Nut
	59	M8-6H.6.019 GOST 5915-70	9	Nut
	61	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	62	M10-6H.04.019 GOST 5916-70	2	Nut
	65	C 6.01.019 GOST 6958-78	38	Washer
	66	C 8.01.019 GOST 6958-78	23	Washer
	67	C 10.01.019 GOST 6958-78	8	Washer
	70	3,2x20.019 GOST 397-79	3	Forelock
	73	6T OST 37.001.115-75	31	Washer
	74	8T OST 37.001.115-75	24	Washer
	75	10 OT OST 37.001.115-75	8	Washer
	77	11.5.6308010	1	Gas pressure spring
	78	01625033A	1	Gas pressure spring
	80	952.3-8402310 CT2/IV	1	Cross bar
	81	952.3-8402310-01 CT2/IV	1	Cross bar
	84	4x10.019	1	Male screw

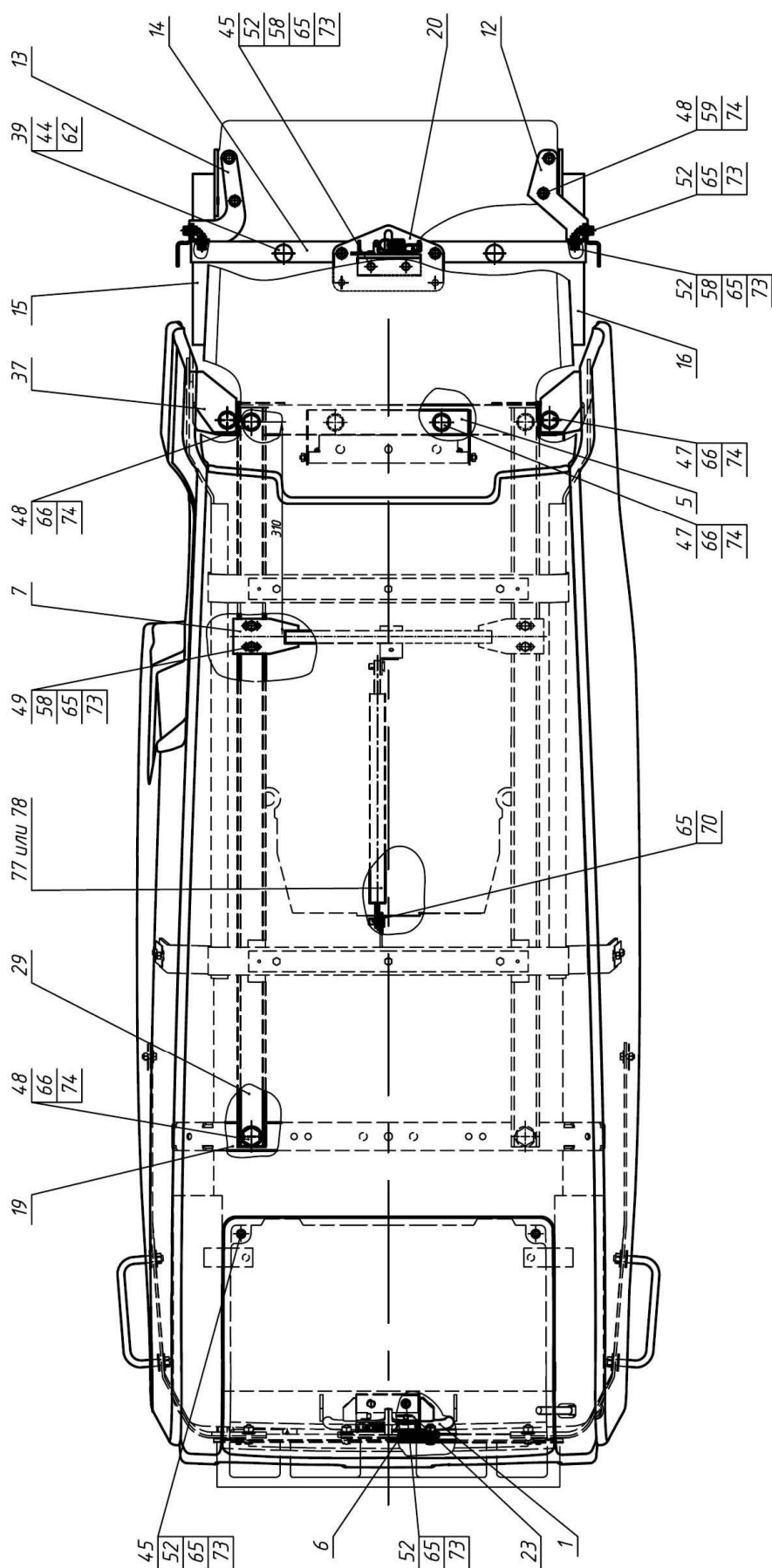


Fig.84.2 Facing (top view)

Subgroup 8400. Facing

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
84.1, 84.2, 84.3	1	921.3-8400040	1	Frame
	2	921.3-8401090	1	Grill
	3	921.3-8402020-01	1	Hood
	4	952.3-8402050-A	1	Arc
	5	921.3-8402080	1	Support
	6	921.3-8402095	1	Detent
	7	921.3-8402150	1	Bracket
	8	921.3-8402250	2	Handrail
	9	952.3-8402330	1	Hatch
	10	952.3-8402470-A	1	Support
	11	952.3-8402470-A-01	1	Support
	12	952.3-8402060	1	Bracket
	13	952.3-8402065	1	Bracket
	14	952.3-8402070	1	Bracket
	15	952.3-8402080	1	Bracket
	16	952.3-8402080-01	1	Bracket
	19	950.3-8402025-A	1	Frame
	20	950.1-8402420	1	Joke
	21	822-8400080	1	Control wire
	22	90-8400070	1	Rod
	23	80-8402410	2	Lock
	24	80-6708225-01	2	Bracket
	29	921.3-8400013	2	Buckle
	30	921.3-8400017	1	Grill
	31	921.3-8400017-01	1	Grill
	32	921.3-8400077	2	Bushing
	33	921.3-8400101	1	Bracket
	34	921.3-8400102	1	Bracket
	35	921.3-8401088	1	Grill
	36	921.3-8402071	1	Bracket
	37	921.3-8402071-01	1	Bracket
	38	952.3-8402067	2	Bracket
	39	923-8400033-02	2	Stem
	40	549A-1305044	1	Ring
	41	90-8400021	1	Clamp
	42	80-6105056	1	Handle
	43	70-4803023	1	Coupling
	44	70-3401093	2	Lever tip
	45	A30.04.017	10	Cap
	47	M8-6gx20.88.35.019 GOST 7796-70	5	Bolt
	48	M8-6gx25.88.35.019 GOST 7796-70	19	Bolt
	49	M6-6gx40.88.35.019 GOST 7795-70	4	Bolt
	50	M8-6gx40.88.35.019 GOST 7795-70	4	Bolt
	51	M10-6gx25.88.35.019 GOST 7796-70	8	Bolt
	52	M6-6gx20.88.35.019 GOST 7798-70	27	Bolt
	54	B.M5-6gx20.58.019 GOST 17473-80	2	Screw
	58	M6-6H.6.019 GOST 5915-70	8	Nut
	59	M8-6H.6.019 GOST 5915-70	9	Nut
	61	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	62	M10-6H.04.019 GOST 5916-70	2	Nut
	65	C 6.01.019 GOST 6958-78	38	Washer
	66	C 8.01.019 GOST 6958-78	23	Washer
	67	C 10.01.019 GOST 6958-78	8	Washer
	70	3,2x20.019 GOST 397-79	3	Forelock
	73	6T OST 37.001.115-75	31	Washer
	74	8T OST 37.001.115-75	24	Washer
	75	10 OT OST 37.001.115-75	8	Washer
	77	11.5.6308010	1	Gas pressure spring
	78	01625033A	1	Gas pressure spring
	80	952.3-8402310 CT2/IV	1	Cross bar
	81	952.3-8402310-01 CT2/IV	1	Cross bar
	84	4x10.019	1	Male screw

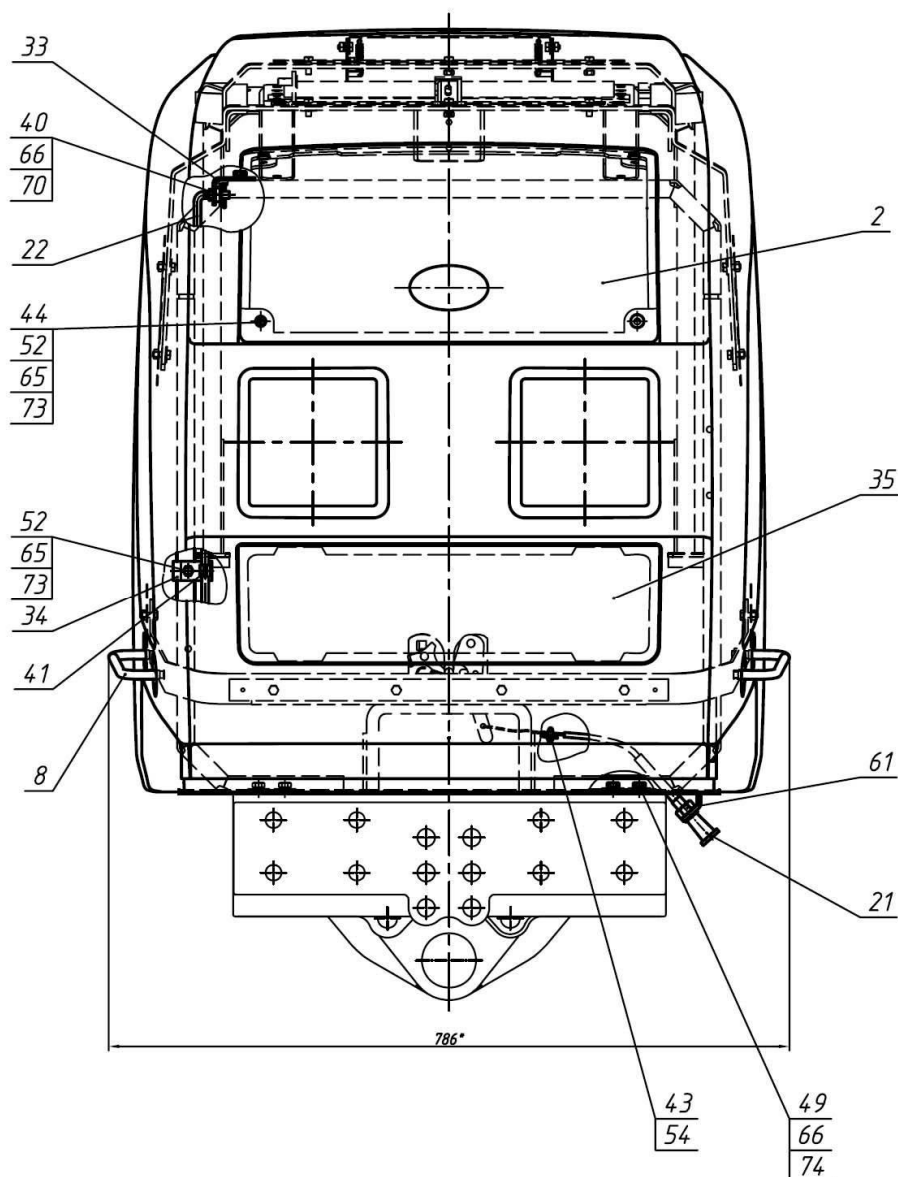


Fig.84.3 Facing (front view)

Subgroup 8400. Facing

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
84.1, 84.2, 84.3	1	921.3-8400040	1	Frame
	2	921.3-8401090	1	Grill
	3	921.3-8402020-01	1	Hood
	4	952.3-8402050-A	1	Arc
	5	921.3-8402080	1	Support
	6	921.3-8402095	1	Detent
	7	921.3-8402150	1	Bracket
	8	921.3-8402250	2	Handrail
	9	952.3-8402330	1	Hatch
	10	952.3-8402470-A	1	Support
	11	952.3-8402470-A-01	1	Support
	12	952.3-8402060	1	Bracket
	13	952.3-8402065	1	Bracket
	14	952.3-8402070	1	Bracket
	15	952.3-8402080	1	Bracket
	16	952.3-8402080-01	1	Bracket
	19	950.3-8402025-A	1	Frame
	20	950.1-8402420	1	Joke
	21	822-8400080	1	Control wire
	22	90-8400070	1	Rod
	23	80-8402410	2	Lock
	24	80-6708225-01	2	Bracket
	29	921.3-8400013	2	Buckle
	30	921.3-8400017	1	Grill
	31	921.3-8400017-01	1	Grill
	32	921.3-8400077	2	Bushing
	33	921.3-8400101	1	Bracket
	34	921.3-8400102	1	Bracket
	35	921.3-8401088	1	Grill
	36	921.3-8402071	1	Bracket
	37	921.3-8402071-01	1	Bracket
	38	952.3-8402067	2	Bracket
	39	923-8400033-02	2	Stem
	40	549A-1305044	1	Ring
	41	90-8400021	1	Clamp
	42	80-6105056	1	Handle
	43	70-4803023	1	Coupling
	44	70-3401093	2	Lever tip
	45	A30.04.017	10	Cap
	47	M8-6gx20.88.35.019 GOST 7796-70	5	Bolt
	48	M8-6gx25.88.35.019 GOST 7796-70	19	Bolt
	49	M6-6gx40.88.35.019 GOST 7795-70	4	Bolt
	50	M8-6gx40.88.35.019 GOST 7795-70	4	Bolt
	51	M10-6gx25.88.35.019 GOST 7796-70	8	Bolt
	52	M6-6gx20.88.35.019 GOST 7798-70	27	Bolt
	54	B.M5-6gx20.58.019 GOST 17473-80	2	Screw
	58	M6-6H.6.019 GOST 5915-70	8	Nut
	59	M8-6H.6.019 GOST 5915-70	9	Nut
	61	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	62	M10-6H.04.019 GOST 5916-70	2	Nut
	65	C 6.01.019 GOST 6958-78	38	Washer
	66	C 8.01.019 GOST 6958-78	23	Washer
	67	C 10.01.019 GOST 6958-78	8	Washer
	70	3,2x20.019 GOST 397-79	3	Forelock
	73	6T OST 37.001.115-75	31	Washer
	74	8T OST 37.001.115-75	24	Washer
	75	10 OT OST 37.001.115-75	8	Washer
	77	11.5.6308010	1	Gas pressure spring
	78	01625033A	1	Gas pressure spring
	80	952.3-8402310 CT2/IV	1	Cross bar
	81	952.3-8402310-01 CT2/IV	1	Cross bar
	84	4x10.019	1	Male screw

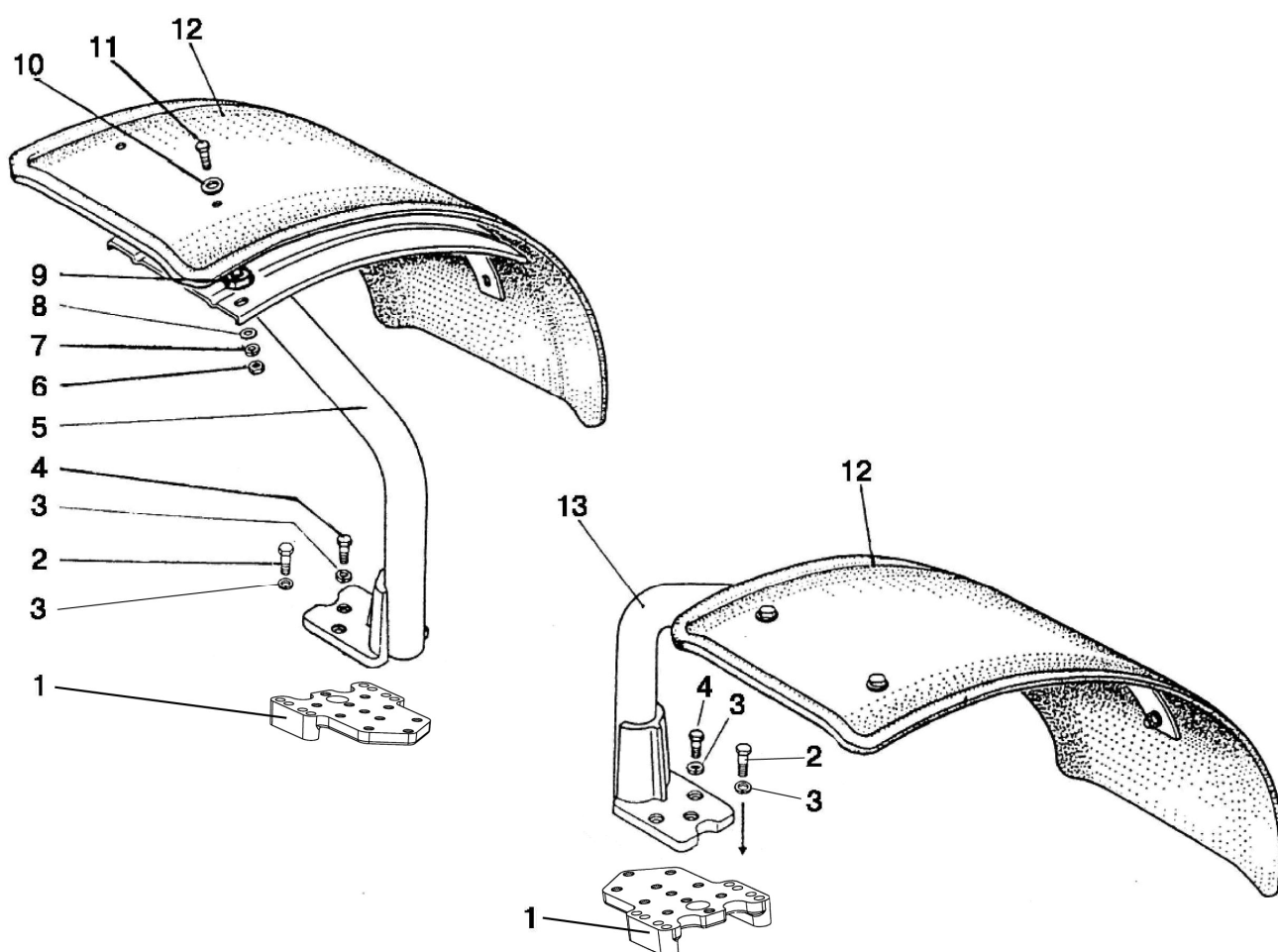


Fig.84.4. Front wings (for FDA 822-2300020-02 with expanded hoses)

Group 84. Fin assembly
Subgroup 8403. Front wings (for FDA 822-2300020-02)

Fig.No	Pos.No	Designation	Q-ty	Name
84.4		822-8403010-02/-03	1	Wing (1-13)
	1	822-8403011-Б	2	Base
	2	M12-6gx60.88.35.019 GOST 7796-70	8	Bolt
	3	12 OT OST 37.001.115-75	14	Washer
	4	M12-6gx30.88.35.019 GOST 7796-70	6	Bolt
	5	822-8403015-01	1	Right rack
	6	M10-6H.6.019 GOST 5915-70	10	Nut
	7	10Л OST 37.001.115-75	10	Washer
	8	C 10.01.019 GOST 11371-78	10	Washer
	9	80-4616017	10	Roller
	10	C 10.01.019 GOST 6958-78	10	Washer
	11	M10-6gx40.88.35.019 GOST 7796-70	10	Bolt
	12	822-8403020* or 822-8403020-Б* or 1221-8403014-Б-02** or 1221-8403014-Б1-02**	2	Wing
	13	822-8403015	1	Left rack

* During tyres installation 13,6-20 or 13,6R20

** During tyres installation 360/70R24

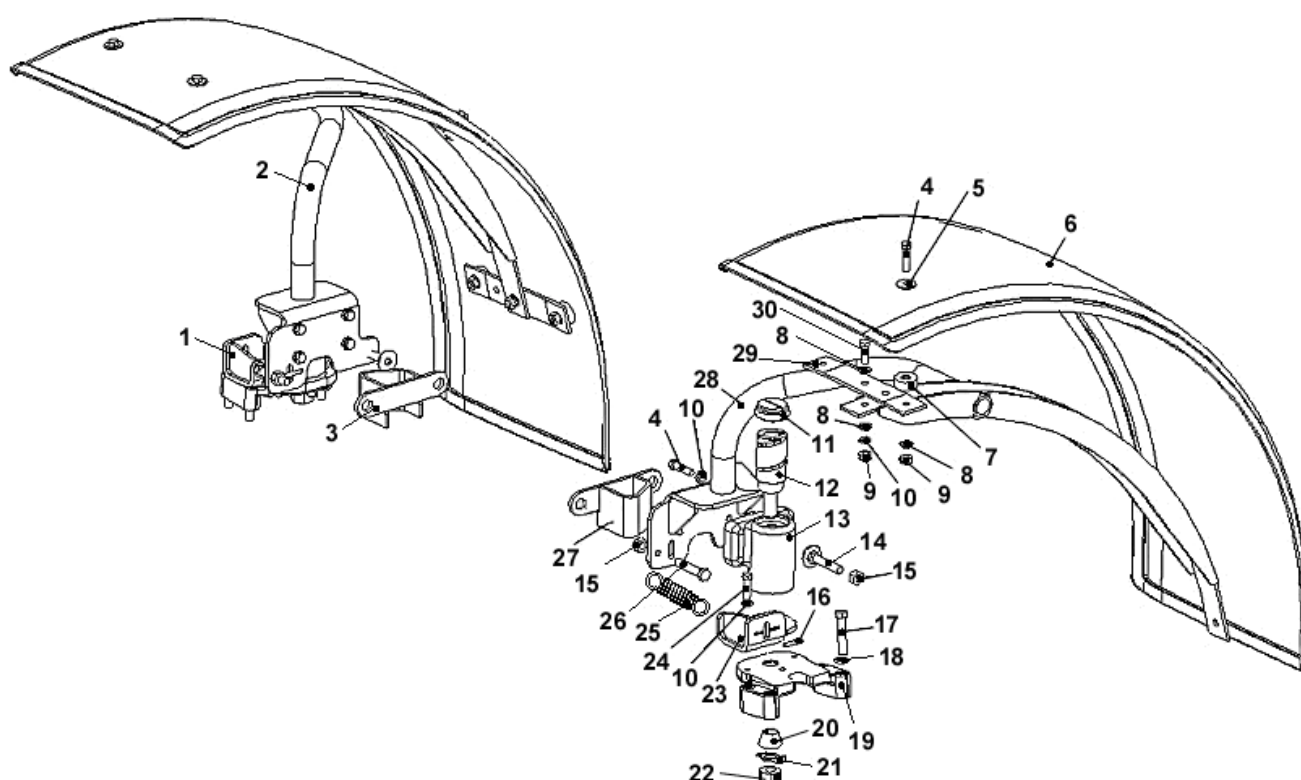
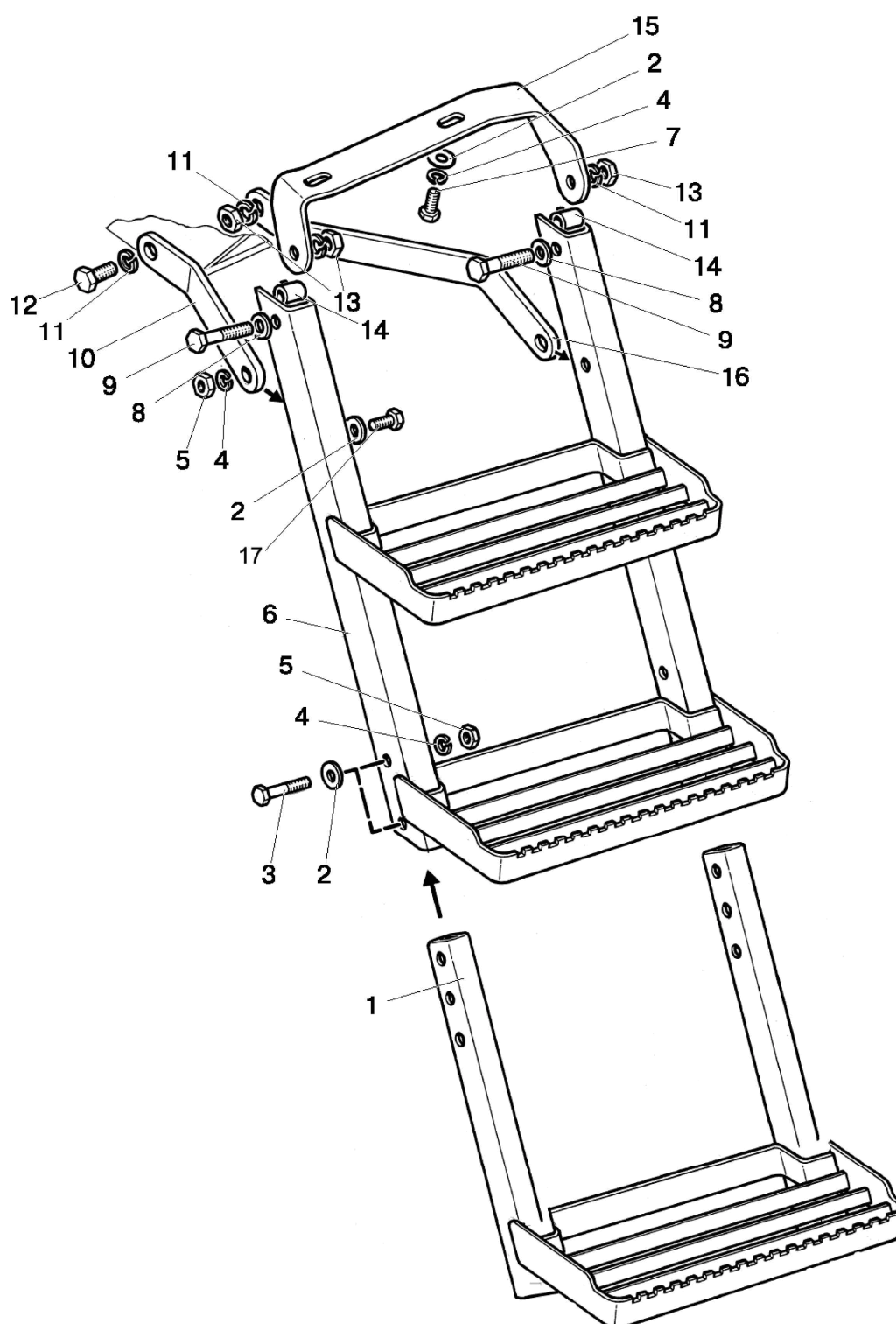


Fig.84.5. Front wings (for FDA 822-2300020-04 with short hoses)

Group 84. Fin assembly
Subgroup 8403. Front wings
(for FDA 822-2300020-04 with short hoses)

Fig.No	Pos.No	Designation	Q-ty	Name
84.5		822-8403100/-01	1	Wing
	1	822-8403110-01	1	Bracket
	2	822-8403115-01	1	Rack
	3	822-8403120	1	Thrust
	4	M10-6gx40.88.35.019 GOST 7796-70	20	Bolt
	5	C 10.01.019 GOST 6958-78	12	Washer
	6	822-8403114	2	Wing
	7	80-4616017	12	Roller
	8	C 10.01.019 GOST 11371-78	24	Washer
	9	M10-6H.6.019 GOST 5915-70	18	Nut
	10	10 OT OST 37.001.115-75	16	Washer
	11	822-8403109	2	Blind plug
	12	822-8403107	2	Axis
	13	822-8403106	1	Bracket
	14	822-8403130	2	Thrust
	15	M12-6H.6.019 GOST 5915-70	4	Nut
	16	822-8403101	4	Pin
	17	M12-6gx60.88.35.019 GOST 7796-70	8	Bolt
	18	12 OT OST 37.001.115-75	8	Washer
	19	822-8403108	2	Base
	20	822-8403129	2	Bushing
	21	20 OT OST 37.001.115-75	2	Washer
	22	M20-6H.6.019 GOST 5915-70	2	Nut
	23	822-8403110	1	Bracket
	24	M10-6gx35.88.35.019 GOST 7796-70	2	Bolt
	25	822-8403102	2	Spring
	26	M12-6gx50.88.35.019 GOST 7795-70	2	Bolt
	27	822-8403120-01	1	Thrust
	28	822-8403115	1	Rack
	29	822-8403104	6	Strip
	30	M10-6gx30.88.35.019 GOST 7796-70	6	Bolt



84.6. Foot step

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

Fig.No	Pos.No	Designation	Q-ty	Name
84.6		80-8405005-B	1	Left foot step (1-16)
		80-8405005-B-01	1	Right foot step (1-16)
	1	80-8405020-A2	1	Foot step
	2	C 10.01.019 GOST 11371-78	8	Washer
	3	M10-6gx50.88.35.019 GOST 7795-70	4	Bolt
	4	10 OT OST 37.001.115-75	8	Washer
	5	M10-6H.6.019 GOST 5915-70	6	Nut
	6	80-8405010-A3	1	Foot step
	7	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	8	C 12.01.019 GOST 11371-78	2	Washer
	9	M12-6gx60.88.35.019 GOST 7796-70	2	Bolt
	10	80-8405031-B	1	Bracket
	11	12 OT OST 37.001.115-75	4	Washer
	12	M12-6gx30.88.35.019 GOST 7796-70	2	Bolt
	13	M12-6H.6.019 GOST 5915-70	3	Nut
	14	923-6700111	2	Bushing
	15	80-8405030-B	1	Bracket
		80-8405030-B-01	1	Bracket (for right foot step - upon request)
	16	80-8405032-B	1	Bracket
	17	M10-6gx30.88.35.019 GOST 7796-70	2	Bolt

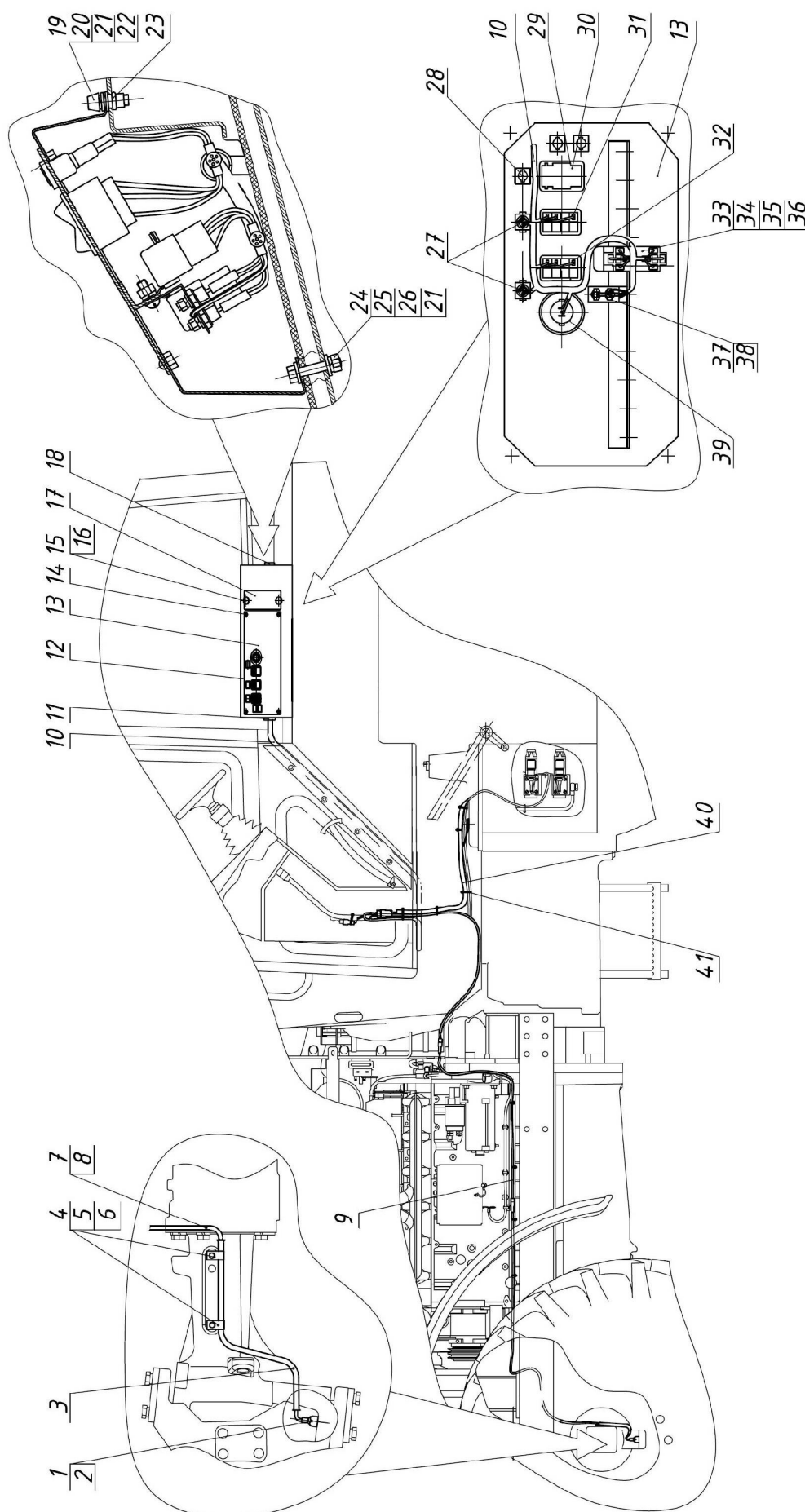
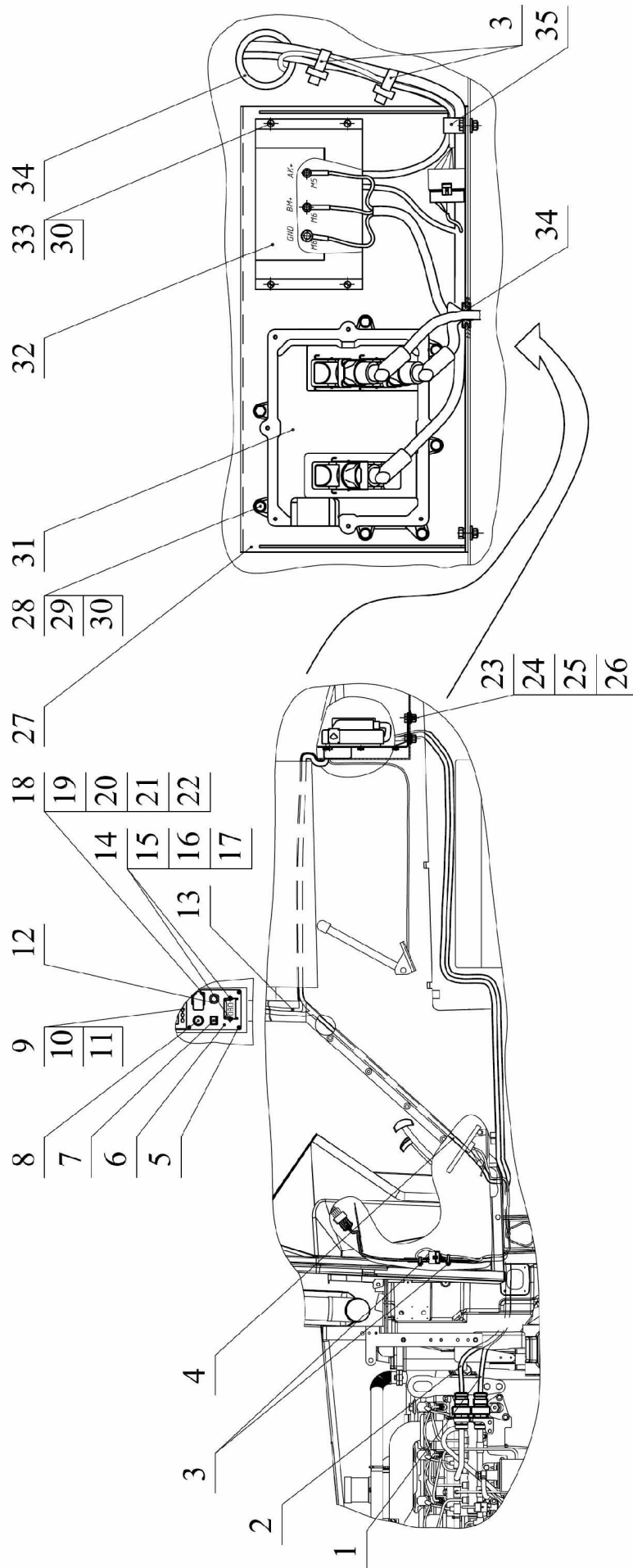


Fig.87.1 Control of DL and PTO shaft.

Group 87. Control system
Subgroup 8700. Control of DL and PTO shaft

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
87.1		952.4-8700310		Control of DL and PTO shaft
	1	50-1702048	10(max)	Shim
	2	BK 12-51	1	Switch
	3	822-8700021	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	Cord
	8	602602 OST 37.003.032 - 88	1	Female socket
	9	1025-3724850	1	Cord
	10	952.4-3724820	1	Cord
	11	50-4607064	1	Bushing
	12	1022-8700290	1	Pult
	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	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	C6.01.019 GOST 6958-78	4	Washer
	27	12.3803-31 or 2202.3803-34	2	Control light
	28	12.3803-41	3	Control light
	29	80-3801021	3	Switch jack
	30	80-3801327	1	Blind plug
	31	П 150M-06.14 or П 150-06.17	1	Switch
	32	П 147M-01.17 or П 147-01.17	1	Switch
	33		2	Cut-in relay 30A or relay 90.3747
	34	B.M6-6gx12.58.019 GOST 17473-80	2	Screw
	35	M6-6H.6.019 GOST 5915-70	2	Nut
	36	6T OST 37.001.115-75	2	Washer
	37	1522-8700221	1	Bracket
	38	5T OST 37.001.115-75	2	Washer
	39	BK 12-1	1	Switch
	40	1021-3724830-Д	1	Cord
	41	80-3723045-01	14	Collar



Installation of cords from other side

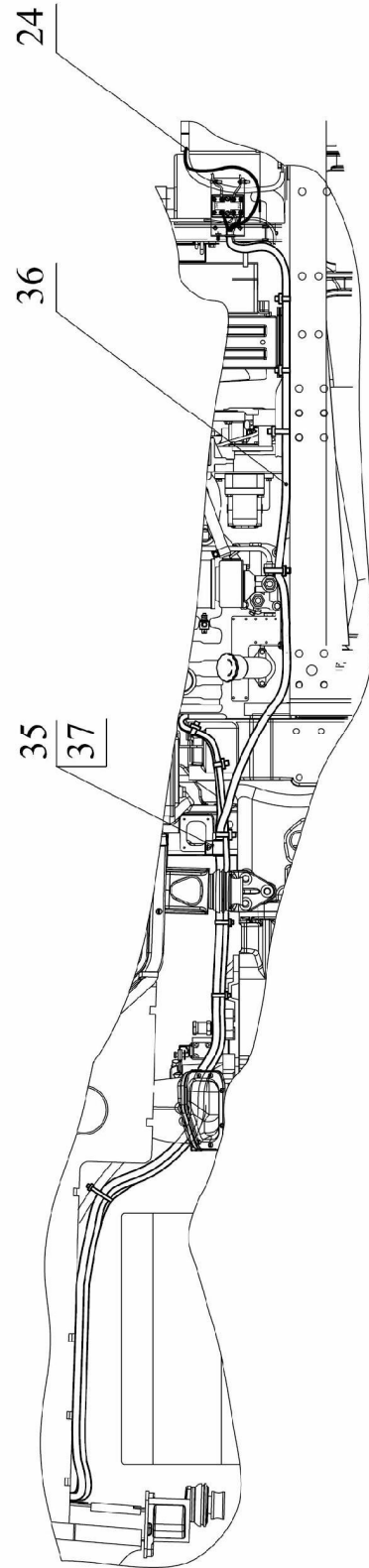


Fig.87.2 MMZ engine control

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
87.2		1025.4-8700910-M		MMZ engine control
	1	245-3724260 *	1	Detection cable extender
	2	245-3724360 *	1	Injection cable extender
	3	80-3723045-01	16	Collar
	4	1025.4-3724961-M	1	Cord
	5	B.M4-6gx20.58.019 GOST 17474-80	6	Screw
	6	1221.4-8700916-M	1	Panel
	7	12.3803-31 or (2202.3803-34)	1	Control light
	8	116.3725	1	Lighter
	9	918013	1	Information display
	10	B.M4-6gx10.58.019 GOST 17473-80	4	Screw
	11	4 OST 37.001.115-75	4	Washer
	12	BK12-1	1	Switch
	13	1221.4-3724801	1	Cord
	14	B.M4-6gx16.58.019 GOST 17473-80	2	Screw
	15	M4-6H.6.019 GOST 5927-70	2	Nut
	16	C4.01.019 GOST 11371-78	2	Washer
	17	4 OST 37.001.115-75	2	Washer
	18	25.038.100	1	Socket
	19	B.M3-6gx16.58.019 GOST 17473-80	4	Screw
	20	M3-6H.6.019 GOST 5927-70	4	Nut
	21	C3.01.019 GOST 11371-78	4	Washer
	22	3T OST 37.001.115-75	4	Washer
	23	M8-6gx16.88.35.019 GOST 7796-70	5	Bolt
	24	M8-6H.6.019 GOST 5915-70	5	Nut
	25	C8.01.019 GOST 6958-78	5	Washer
	26	8T OST 37.001.115-75	5	Washer
	27	1221.4-8700930-M	1	Bracket
	28	M6-6gx35.88.35.019 GOST 7798-70	4	Bolt
	29	C6.01.019 GOST 11371-78	4	Washer
	30	6T OST 37.001.115-75	8	Washer
	31	EDC7UC31 *	1	Control unit
	32		1	Switching and protection unit, series 900
	33	M6-6gx14.88.35.019 GOST 7798-70	4	Bolt
	34	1221.4-8700913	2	Ring
	35	923-37230122	2	Clamp
	36	1221.4-3724845-01	1	Cord
	37	ПР-32-02	1	Seal

* a part of MMZ engine assembly



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APPENDIX A

Diesel engines D-245.S3A, D-245.2S3A, D-245.5S3A, D-245.43S3A (for MTZ tractors)

**Catalogue of assembly units and parts
245S3A-0000100 KD**

The catalogue of assembly units or parts was prepared
by Eduard Grigoryevich Vilyukha

Executive editor
Evgeni Evgenyevich Meleshko
Tel. 8-017-218-31-67

Diesel engines D-245S3A, D-245.2S3A, D-245.5S3A, D-245.43S3A
with fuel-handling system “Common Rail”
The catalogue of assembly units and parts
39 pages with figures

The catalogue is meant for engineers and technicians of economies.
It conforms with the plant technical documentation
as of December 1, 2008

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PROCEDURE OF USING THE CATALOGUE

The present Catalogue contains the main spectrum of the assembly units and parts of the D-245S3A, D-245.2S3A, D-245.5S3A, D-245.43S3A diesel engines with fuel supply system “Common Rail”.

The assembly units and parts are divided into groups and subgroups in accordance with the position numbers on the figures that makes the search of the parts in the Catalogue considerably easier.

In the column “Description”, the indention system is applied. In the first line, the largest assembly unit is specified and then the parts it comprises are listed, for example:

Description

1 2 3 4 5 6 7

Component parts

Fasteners

Assembly units of the component part

Fasteners of the assembly unit

Smaller division

Fasteners

etc.

The digits 1 2 3 4 5 6 7 indicate the belonging of the assembly units and parts to the parts and serve for finding them. The fasteners are listed immediately under the article (assembly unit), for fastening which they are used, their list precedes to enlistment of the parts comprised in this article. The fasteners are listed in the same column as the articles, which are fastened by means of those fasteners, under the header “Fasteners”.

For diesel engines, a seven-digit system of numbering the assembly units and parts is adopted. The number consists of the following elements:

- The first digits to the left of the hyphen designate the model of the engine, on which the respective part was used first;
- The first two digits after the hyphen designate the group number;
- The second two digits designate the subgroup number;
- The last three digits designate the sequence number of the part;
- The letters and digits to the right of them designate the modification and version of the assembly unit or part.

For example: 245-1002015-A2-13 – cylinder block.

10: group number

02: subgroup number

015: part number

The diesel engine is completed with purchased assembly units and parts. They include the fuel pump, injector, electric equipment, etc. These assembly units and parts are designated so as it is adopted at the manufacturer's works.

Due to continual improvement of the engine in part of individual assembly units and parts, some modifications not reflected in this Catalogue may be made.

ENGINE TECHNICAL CHARACTERISTICS

Parameters	D-245S3A	D-245.2S3A	D-245.5S3A	D-245.43S3A
Diesel engine type	4-cycle diesel engine with turbocharging and charged air cooling			
Method of mixing	Direct fuel injection			
Quantity of cylinders	4			
Function	1 - 3 - 4 - 2			
Cylinder diameter, mm	110			
Piston stroke, mm	125			
Active volume, l	4,75			
Estimated compression ratio	17 ± 1			
Nominal power, kW	81	90	70	62
Nominal rotation speed, min ⁻¹	2200		1800	
Rotation speed at maximal turning torque, min ⁻¹	1600		1400	
Maximal turning torque, Nm	440	501	464	411
Estimated turning torque at nominal power, Nm	352	391	371	329
Nominal turning torque rated factor (estimated), %, not less than	25			
Specific fuel consumption at nominal power, g/(kW·h)	225		210	
The engine weight in the configuration according to the rules of EEC UN No 24 (03), kg	450	470	450	
Application	For installation to the combine-harvesters and tractors of traction class 1,4			

INDEX OF GROUPS, SUBGROUPS, ASSEMBLY UNITS AND PARTS

Group	Subgroup	Name	Page
10		Motor mechanisms	6
	1001, 1002	Cylinder block. Front support installation	6-8
	1003, 1007	Installation of cylinder head and inlet line. Valves and valves lifters.	8-10
	1004, 1005	Crank-and-rod mechanism. Clutch coupling installation	10-12
	1006	Distributing gear	12-13
		Fuel system	13
10	1008	Exhaust system	13
10	1008	Exhaust gases recirculation unit installation (EGRU)	13-14
	1104, 1111	Fuel pipelines and combustible equipment installation	14-15
	1111	Fuel pump. Reduction gear unit	15-16
13		Cooling system	16
	1306	Installation of thermostat body	16
	1307,1308	Water pump installation. Fan clutch installation	16-17
		Lubricating system	17
10, 14	1009, 1401	Installation of oil crankcase	17
10, 14	1017,1404	Oil filter installation with liquid to oil heat exchanger (LOHE). Installation of LOHE tubes	17-18
14	1403	Installation of oil pump.	18-19
11	1118	Oil pipelines of turbocharger	19
		Drives	19
10	1022	Installation of steering control pump	19-20
35	3509	Compressor installation	20
37		Electrical equipment	20
	3700	Installation of electrical equipment	20-21
	3701	Alternator installation	21
		Delivered with motor	21



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Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
Group 10. Motor mechanisms												
Subgroups 1001, 1002. Cylinder block. Front support installation (Fig. 1)												
	240-1001000-A-02	FRONT SUPPORT INSTALLATION										1
	240-1001010-B	ENGINE FRONT SUPPORT										1
1	240-1001015-A1-01	ENGINE FRONT SUPPORT										1
2	240-1001025	SHOCK ABSORBER WITH RETAINER										1
3	M8-6gX16.88.35.016	BOLT										4
4	8T 65Г 06	WASHER										4
5	M10-6gX30.88.35.016	BOLT										2
6	10 65Г 06	WASHER										2
	245-1002000-Д	CYLINDER BLOCK										1
	50-1002040-B	OIL CRANKCASE SUPPORT										1
4	50-1002042-B	OIL CRANKCASE SUPPORT										1
5	240-1002044	PIN										2
6	50-1002313-B;	REAR PLATE										1
	245-1002313-B	REAR PLATE (for engine D-245S3A-1063)										1
7	50-1002340	DETENT										1
8	240-1002030	DISTRIBUTION SHIELD										1
9	240-1002033	DISTRIBUTION SHIELD GASKET										1
10	240-1002046	PIN										2
11	240-1002049	GASKET										2
12	240-1002064-A	DISTRIBUTION COVER GASKET										1
	240-1002080-A	THROAT INSTALLATION										1
13	240-1002082-A1	THROAT GASKET										1
14	240-1002085	NET										1
	240-1002115	THROAT										1
15	240-1002088-B	TUBE										1
16	A19.01.003	SPRING RING										1
	A19.01.100	COVER										1
17	042-048-30-2-1	RING										1
18	A19.01.001	PLUG										1
19	M8-6gX20.88.35.016	BOLT										2
20	8T 65Г 06	WASHER										2
	240-1002310	SEAL										1
	240-1002300	OIL-SEAL HOUSING WITH RING										1
21	240-1002311	OIL THROWER RING										1
22	240-1002315	OIL-SEAL CASE										1
23	240-1002305	COLLAR 1.1-100X125-4										1
24	240-1002314	REAR PLATE GASKET										1
25	240-1002320-B	OIL METER										1
26	50-4609038-4	O-RING										2
27	240-1002328	BLIND PLUG										1
	245-1002010-Д	CYLINDER BLOCK										1
28	50-1005019	PIN										2
29	50-1002022;	SLEEVE HOUSING (upper ring)										4
	245-1002022-A1	SLEEVE HOUSING (lower ring)										4



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Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
30	50-1002034										ADJUSTING PIN	2
31	50-1002326-B										BLIND PLUG	2
32	240-1002323-B										PIPE	1
	245-1002009-Д										CYLINDER BLOCK	1
33	50-1002327-A										PLUG	1
34	50-1005140-B										MAIN BEARING CAP	3
35	50-1005141-B										1 st MAIN BEARING CAP	1
36	50-1005152-B										5 th MAIN BEARING CAP	1
37	50-1005159-B1										BOLT OF MAIN BEARING CAP	10
38	50-1005161										WASHER	10
39	240-1002015-A2-13										CYLINDER BLOCK	1
40	240-1002067-A										BUSHING	1
41	240-1002068-A										REAR BUSHING	1
42	240-1002069-A										FRONT BUSHING	1
43	245-1002051-B1										PIPE	4
44	ПЦ7-0										COCK	1
45	245-1002361-Д										CLIP	1
46	245-1002362-Г										CLIP	1
	245-1002510										DRIVING FLANGE INSTALLATION	1
47	245-1002505										DRIVING FLANGE	1
48	245-1002506										GASKET	1
49	КТ 1/2".A12.016										PLUG	1
50	M8-6gX20.88.35.016										BOLT	3
51	8T 65Г 06										WASHER	3
	245-1002771										DISTRIBUTION COVER	1
	240-1002060-A										DISTRIBUTION COVER	1
52	240-1002044										PIN	2
53	240-1002055										COLLAR 2.1-50X70-4	1
54	240-1002065-A2 or 240-1002065-A3-01										DISTRIBUTION COVER	1
55	245-1002411										SENSOR BRACKET	1
56	50-1021012										GASKET	1
57	M6-6gX20.88.35.016										BOLT	3
58	6 65Г 06										WASHER	3
59	245-1017113-B										ADAPTER	1
60	Д09-035-A										WASHER	1
61	M10-6gX20.88.35.016										BOLT	4
62	M10-6gX25.88.35.016										BOLT	8
63	M10-6gX30.88.35.016										BOLT	1
64	M10-6gX45.88.35.016										BOLT	2
65	M10-6gX60.88.35.016										BOLT	1
66	M10-6gX75.88.35.016										BOLT	2
67	M12-6gX25.88.35.016										BOLT	2
68	M12-6gX30.88.35.016										BOLT	7
69	M12-6gX35.88.35.016										BOLT	2
70	M16-6gX30.88.35.016										BOLT	2
71	10 65Г 06										WASHER	19



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
72	12T 65Г 06	WASHER										4
73	12 OT 65Г 06	WASHER										7
74	16 OT 65Г 06	WASHER										2
75	K262-1002021 or K262-1002021-01, -02 or 262-1002021 or 262-1002021-01, -02 245-1006310-Г	CYLINDER BLOCK SLEEVE (a part of crank-rod mechanism 245E3-1004500)										4
		REDUCTION GEAR UNIT DRIVE										1
76	245-1002036	HATCH COVER										1
77	240-1002038	HATCH GASKET										1
78	50-1022067	O-RING										3
79	M8-6gX30.88.35.016	BOLT										3
Subgroups 1003, 1007. Installation of cylinder head and inlet line. Valves and valves lifters (Fig. 2)												
	245-1003010-Д-08	INSTALLATION OF CYLINDER HEAD AND INLET LINE										1
1	240-1002047	BOLT										12
2	240-1002047-01	BOLT										4
3	48-1002318	WASHER										16
4	50-1003070-A8 or 50-1003070-A9	CYLINDER HEAD GASKET										1
5	50-1003104-A	CAP NUT										4
6	50-1003106-01	WASHER										4
7	50-1003107-A	RING										4
8	240-1003108	GASKET OF CYLINDER HEAD COVER										1
9	245-1003109	CAP GASKET OF CYLINDER HEAD COVER										1
	245-1003011-Б2-01	CYLINDER HEAD										1
10	240-1003112	RACK STUD										4
	245-1003013-Б2-03	CYLINDER HEAD										1
11	50-1003103-A	CAGE										2
12	240-1003027 or 240-1003027-A2	BLIND PLUG										5
13	240-1003029	BUSHING										6
14	240-1003037	BLIND PLUG										1
15	245-1003015-Б2-01 or 245-1003015-Б2-03	CYLINDER HEAD										1
16	245-1003018-Б1 or 245-1003018-Б2	INTAKE VALVE SEAT										4
17	245-1003019-Б1 or 245-1003019-Б2	OUTLET VALVE SEAT										4
18	245-1007032	VALVE GUIDE BUSHING										8
19	Д02-003-A	BLIND PLUG										4
20	50-1007053-A1 or 50-1007053-A2	VALVE COTTER										16
21	240-1007015-Б7 or 240-1007015-Б9	OUTLET VALVE										4
22	240-1007020-Б	VALVE PACKING SEAL										8
23	240-1007045-A2 or (-A3, -A4, -A10)	OUTER VALVE SPRING										8
24	240-1007046-A2 or (-A3, -A4, -A5)	INNER VALVE SPRING										8



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
25	240-1007048	VALVE SPRING TAPPET										8
26	240-1007054	LOWER VALVE SPRING WASHER										8
27	240-1007055	UPPER VALVE SPRING WASHER										8
28	260-1007014 or 260-1007014-A or 260-1007014-A1 245-1003030-Д	INTAKE VALVE										4
		CYLINDER HEAD COVER										1
29	240-1003031	GASKET										2
30	240-1003264-A	GASKET										1
31	245-1003032	CYLINDER HEAD COVER										1
32	245-1003033-Г2-01	INTAKE MANIFOLD										1
33	245-1003039	THREAD INSERT										1
34	245-1003270-B-03	AIR PIPE										1
35	КТ 1/8". А12.016	PLUG										1
36	2.5X10	PIN										2
37	M8-6gX25.88.35.016	BOLT										3
38	M8-6gX35.88.35.016	BOLT										4
39	8T 65Г 06	WASHER										7
	240-1007100-B1	ROCKING ARM MECHANISM										1
40	50-1007102-A1	ROCKING ARM AXLE										1
41	50-1007103-A or 50-1007103-A1 or 50-1007103-A2	ROCKING ARM AXLE SPRING										3
42	50-1007175-B1	ADJUSTING SCREW										8
43	50-1007182	ROCKING ARM AXLE PLUG										2
44	50-1007183	PLUG WASHER										2
45	50-1007212-A3 or 50-1007212-A4	VALVE ROCKING ARM WITH BUSHINGS										8
46	240-1007151-B-01	ENDMOST ROCKING ARM AXLE RACK										1
	240-1007151-B	ENDMOST ROCKING ARM AXLE RACK (not shown)										1
47	240-1007152-B-01	INTERMEDIATE ROCKING ARM AXLE RACK										1
	240-1007152-B	INTERMEDIATE ROCKING ARM AXLE RACK (not shown)										1
48	240-1007185	ROCKING ARM AXLE DETENT										1
49	Д02-063	NUT										8
50	10 65Г 06	WASHER										1
51	240-1007310-B1	BAR BELL										8
52	240-1007375-A1 or 240-1007375-A2 245-1014450	VALVE LIFTER (a part of cylinder block installation 245-1002000-Д) BREATHING INSTALLATION										8
53	240-1002430-Г	BREATHING HOUSING										1
54	240-1002444-A1	GASKET										1
55	245-1003122-B	CAP										1
56	245-1014440	CAGE WITH PIPE										1
57	245-1014445	OIL DEFLECTOR										1
58	M8-6gX16.88.35.016	BOLT										4
59	8T 65Г 06	WASHER										4
60	КТ 3/8". А12.016	PLUG										1
61	M12-6H.6(S18)	NUT										4
62	M8-6gX30.88.35.016	BOLT										1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
63	M8-6gX35.88.35.016	BOLT										2
64	M8-6gX80.88.35.016 or 240-1022070-03	BOLT										1
65	M12-6gX85.88.35	BOLT										2
66	8T 65Г 06	WASHER										4
67	A.12.01.08KII	WASHER										2
68	245-3700002	BRACKET										4
69	11 720 720	GLOW PLUG AET "Tolmin" (Slovenia)										4
	245-1014470	BREATHER PIPE INSTALLATION										1
70	20X29-1.6	HOSE (L=900 mm)										1
71	20-32 "NORMA-TORRO" or XC-26.019	CLAMP										1
Subgroups 1004, 1005. Crank-and-rod mechanism. Clutch coupling installation (Fig. 3)												
1	245E3-1004500	CRANK-AND-ROD MECHANISM										1
	50-1005033	GEAR OF OIL PUMP DRIVE										1
	245.9-1005015	CRANKSHAFT										1
2	50-1005019	PIN										1
3	50-1005021-A	BLIND PLUG										4
4	50-1005043	REAR OIL DEFLECTOR OF CRANKSHAFT										1
5	240-1005030-A1	DISTRIBUTION GEAR OF CRANKSHAFT										1
	245.9-1005014-04	CRANKSHAFT										1
6	240-1005017	CRANKSHAFT COUNTERWEIGHT										4
7	240-1005018	COUNTERWEIGHT FASTENING BOLT										8
8	240-1005024	LOCKING PLATE										8
9	245.9-1005020	CRANKSHAFT										1
10	6X9	KEY										3
11	245-1005042	FRONT OIL DEFLECTOR OF CRANKSHAFT										1
	245-1005100-E or 240-1005100M or A23.01-81-240c6.AC	BEARING LINERS SET										1
12	245-1005170-E or 240-1005170-M or A23.01-81.037	BEARING LINER										4
13	245-1005171-E or 240-1005171-M or A23.01-81.038	BEARING LINER										4
14	245-1005177-E or 240-1005177-M or A23.01-81.040	BEARING LINER										1
15	245-1005179-E or 240-1005179-M or A23.01-81.039	BEARING LINER										1
16	245-1005180-E or 240-1005178-M or A23.01-10401	THRUST HALF-WASHER										2
17	245-1005181-E or 240-1005181-M or A23.01-10403	THRUST HALF-WASHER										2



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
	245E3-1004010	PISTON WITH CONNECTING ROD										4
	245-1004100-E	CONNECTING ROD										4
18	50-1004182-A1	CONNECTING ROD BOLT (A20.07.002)										8
19	50-1004188	NUT OF CONNECTING ROD BOLT (A20.03.001)										8
20	245-1004112-Д	CONNECTING ROD										4
21	240-1004125-A	CONNECTING ROD COVER										4
22	245-1004190	WASHER										8
23	245-1004115-A	BUSHING OF CONNECTING ROD UPPER HEAD										4
24	A245-1004021-B or K.343N-7	PISTON (produced by company Almet (Czech Republic)) (produced by company Petar Drapshin (Serbia))										4
25	K245-1004042-B	PISTON PIN										4
26	245-1004022	LOCKING RING OF PISTON PIN										8
27	24-110-30-01 or A1 KD 110DNAA or 260-1004062	PRESSURE RING (company Buzuluk (Czech Republic)) (produced by company IHR (Germany));										4
28	30-110-25-02 or XBL 01558VT or 260-1004063	PRESSURE RING (company Buzuluk (Czech Republic)) (produced by company IHR (Germany));										4
29	64-110-50-02 or XEL 01558ED or 260-1004080	OIL-SCRAPER RING (company Buzuluk (Czech Republic)) (produced by company IHR (Germany))										4
	245-1004140-E or 240-1004140M or A23.01-74-240c6.AC	SET OF CONNECRING ROD BEARINGS BUSHES										1
30	245-1004158-E or 240-1004158-M or A23.01-74.014	CONNECTING ROD BUSH										8
	240-1005110-78; 240-1005110-79	FLYWHEEL INSTALLATION (for motor D-245S3A-1063)										1
31	50-1005127-A	FLYWHEEL FASTENING BOLT										7
32	48-1005128	WASHER										7
	240-1005115-22; 245-1005115-B-05	FLYWHEEL (for motor D-245S3A-1063)										1
33	70-1601074	BUSHING (for motor D-245S3A-1063 bushing is a part of clutch coupling installation 245-1005009-B)										6
34	240-1005122; 245-1005122	PIN (for motor D-245S3A-1063)										6
	240-1005114-A1-17; 240-1005114-A1-16	FLYWHEEL (for motor D-245S3A-1063)										1
35	50-1005121-A	FLYWHEEL CROWN										1
36	240-1005120-A	FLYWHEEL										1
	245.5-1005130	INSTALLATION OF CRANKSHAFT PULLEY										1
	245.5-1005137-B	CRANKSHAFT PULLEY										1
37	245.5-1005131-B	CRANKSHAFT PULLEY										1
38	245.5-1005139	SPACER OF CRANKSHAFT PULLEY										1
39	2.5x10	PIN										2
40	M8-6gX16.88.35.016	BOLT										4
41	8T 65Г 06	WASHER										4
42	245-1005054-B	CRANKSHAFT BOLT										1
43	245-1005132-B	INNER RING										1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
44	245-1005133-B	OUTER RING										1
45	245-1005134-B	BUSHING										1
	240-1005009-03; 240-1005009-06	CLUTCH COUPLING INSTALLATION										1
46	80-1601090-A; 80-1601090	CLUTCH DISK (for motors D-245.5S3A-1081, D-245.5S3A-1108, D-245.43S3A-1082, D-245.43S3A-1110); (for motors D-245S3A-1083, D-245.2S3A-1125, D-245.5S3A-1081, D-245.5S3A-1108, D-245.43S3A-1082, D-245.43S3A-1110)										1
47	85-1601130-01; 80-1601130-A	DRIVEN DISK (for motors D-245.5S3A-1081, D-245.5S3A-1108, D-245.43S3A-1082, D-245.43S3A-1110); (for motors D-245S3A-1083, D-245.2S3A-1125, D-245.5S3A-1081, D-245.5S3A-1108, D-245.43S3A-1082, D-245.43S3A-1110)										1
48	M12x1,25-6H.6.016	NUT										6
49	12T 65Г 06	WASHER										6
	245-1005009-B	CLUTCH COUPLING INSTALLATION (for motors D-245S3A-1063) (on fig. not shown)										1
	70-1601074	BUSHING										6
	85-1601071	BUSHING										3
	85-1601073	BUSHING										3
	85-1601085	INTERMEDIATE DISK										1
	85-1601090-B	CLUTCH DISK										1
	85-1601130-02	DRIVEN DISK										2
	180205K1C17	BEARING										1
	M12x1,25-6H.6.016	NUT										6
	12T 65Г 06	WASHER										6
Subgroup 1006. Distributing gear (Fig. 4)												
		Assembly units and parts are a part of cylinder block assembly 245-1002000-Д										
1	50-1006021-B	RETAINER BAR										1
2	50-1006247	SPECIAL SCREW										1
3	M10-6gX25.88.35.016	BOLT										1
4	10 65Г 06	WASHER										2
	50-1006250-B	INTERMEDIATE GEAR PIN (a part of block assembly 245-1002010-Д)										1
5	50-1005021-A	BLIND PLUG										1
6	50-1006252-B1	INTERMEDIATE GEAR PIN										1
7	50-1006253	THRUST WASHER										1
	240-1006240-A1 or 240-1006240-A2	INTERMEDIATE GEAR WITH BUSHING										1
8	240-1006244-B or 240-1006244-B1	INTERMEDIATE GEAR										1
9	240-1006246	BUSHING										1
10	50-1006254	PLATE										1
11	M8-6gX16.88.35.016	BOLT										2
12	8T 65Г 06	WASHER										2
	245-1006010	CAM SHAFT										1
13	50-1006017-B	WASHER										1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group	
		1	2	3	4	5	6	7	8	9			
14	50-1006018	THRUST WASHER OF CAM SHAFT										1	
15	240-1006214-A1 or 240-1006214-A	GEAR OF CAM SHAFT										1	
16	245-1006015-A	CAM SHAFT										1	
17	245-1006020	SPECIAL BOLT										1	
18	6X9	KEY										1	
19	245-1006311-B1	DRIVE GEAR OF FUEL PUMP										1	
20	50-1006315-B4	GASKET										1	
21	M10-6H.12.40X.016	NUT										} parts of installation 245-1006310-Γ - reducing gear drive	3
22	260-1111208	WASHER											3
Group 11. Fuel system Subgroup 1008. Exhaust system (Fig. 5)													
1	245-1008010-P	TURBOCHARGER INSTALLATION										1	
	C14-198-01; C14-101-01	TURBOCHARGER (produced by company Turbo (Czech Republic)) (for motors D-245S3A and D-245.2S3A); (non adjustable) (for motors D-245.5S3A and D-245.43S3A) (not shown on fig.)										1	
2	245-1008016-A	GASKET										1	
3	245-1008021-P	ADAPTER										1	
4	245-1008023-A	BOLT										3	
5	245-1008024	BOLT										4	
6	245-1008025-B1	EXHAUST MANIFOLD										1	
7	245-1008026	END LINING OF EXHAUST MANIFOLD										2	
8	245-1008027	INTERMEDIATE LINING OF EXHAUST MANIFOLD										1	
9	245-1008045	VARIATOR										1	
10	245-1205614-B	GASKET										1	
11	245-3701069	WASHER										6	
12	265-1205028	BOLT										4	
13	M12-6gX35.88.35.016	BOLT										5	
14	M12-6Gx85.88.35.016	BOLT										1	
Subgroup 1008. Exhaust gases recirculation unit installation (EGRU) (Fig. 6)													
1	245-1008100-T	INSTALLATION OF EGRU										1	
	245-1008140-T	COOLER										1	
2	245-1008145-T	RECIRCULATION TUBE										1	
3	245-1008214	VALVE LINING OF EGRU										3	
4	245-1008218	BLIND PLUG										1	
5	245-1008219; 245-1008219-01	WASHER (for motors D-245.5S3A and D-245.43S3A) (for motors D-245S3A and D-245.2S3A)										1	
6	245-1008223-T	UPPER JOKE										1	
7	245-1008226-T	SCREEN										1	
8	245-1008230-T	BRACKET										1	
9	245-1008240-T	ADAPTER										1	
10	245-1008241-T	ADAPTER LINING										2	
11	245-1008598	CYLINDER HEAD TUBE										1	
12	50-1015598	TUBE LINING										1	
13	245-1307302-T	COOLER OUTLET PIPE										1	



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
14	245-1008301-T	COOLER INLET PIPE										1
15	KГ 3/8". A12.016	PLUG										1
16	40-60 "NORMA-TORRO"	CLAMP										4
17	M6-6H.6.016	NUT										1
18	M8-6H.6.016 (S13)	NUT										2
19	M10-6H.6.016 (S17)	NUT										2
20	M6-6gX12.88.35.016	BOLT										1
21	M8-6gX20.88.35.016	BOLT										4
22	M8-6gX25.88.35.016	BOLT										6
23	M10-6gX30.88.35.016	BOLT										2
24	A.8.01.08KП.016	WASHER										2
25	6 65Г 06	WASHER										1
26	8Т 65Г 06	WASHER										8
27	10 65Г 06	WASHER										2
Subgroups 1104, 1111. Fuel pipelines and combustible equipment installation (with fuel supply system “Common Rail”) (Fig.7)												
	245-1111000–CR	COMBUSTIBLE EQUIPMENT INSTALLATION										1
1	0 445 120 141	INJECTOR CRIN2 (produced by company BOSCH (Germany))										4
2	0 445 224 047	RAIL LWRN3 (produced by company BOSCH (Germany))										1
3	66 505 59 140	FULE FILTER WDK 962/12 (produced by company MANN+HUMMEL (Germany))										1
4	263-1111317-CR	BUSHING										4
5	263-1111318-CR	JOKE										4
6	263-1111319-CR	LINING										4
7	260-1118007	GASKET										1
8	245-1104180-CR-01	LOW PRESSURE FUEL PIPE (L=330 mm)										1
9	245-1104180-CR	LOW PRESSURE FUEL PIPE (L=155 mm)										2
10	245-1104185-CR	LOW PRESSURE FUEL PIPE										1
11	245-1104320-CR	DRAINAGE FUEL PIPE										1
12	245-1104300-CR-02	HIGH PRESSURE FUEL PIPE										1
13	245-1104300-CR-03	HIGH PRESSURE FUEL PIPE. produced by company										1
14	245-1104300-CR-04	HIGH PRESSURE FUEL PIPE GUIDO										1
15	245-1104300-CR-05	HIGH PRESSURE FUEL PIPE (Germany)										1
16	245-1104300-CR-06	HIGH PRESSURE FUEL PIPE										1
17	245-1104143-CR	GASKET										4
18	245-1111010-CR	REDUCING GEAR (see on fig.8)										1
19	245-1111025-CR	FUEL PUMP WITH GEAR (see on fig.8)										1
20	245-1111033-CR	BRACKET										1
21	245-1111034-CR	BUSHING										2
22	245-1111113	PROTECTIVE COLLAR										2
	245-1117075-CR	FUEL FILTER HOUSING										1
23	245-1117079	COUPLING										1
24	245-1117081-CR	COVER										1
25	245-1117105	COUPLING WITH PLUG										1
26	240-1104787	COUPLING BOLT										4
27	240-1111101-B	CLAMP										1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
28	240-1111103-A	TURNING ANGLE JOINT BOLT										1
29	50-1022067	O-RING										8
30	Д18-051-A	TURNING ANGLE JOINT BOLT										4
31	Д18-055-A	O-RING										13
32	024-030-36-2-2	RING										4
33	10-16 "NORMA-TORRO"	CLAMP										2
34	M8-6gX35.88.35.016	BOLT										2
35	M10-6gX25.88.35.016	BOLT										5
36	M10-6gX35.88.35.016	BOLT										1
37	M10-6gX65.88.35.016	BOLT										3
38	M10-6gX120.88.35.016	BOLT										2
39	M10-6gX130.88.35.016	BOLT										1
40	M10x35.88.35.016	BOLT DIN 912										8
41	8T 65Г 06	WASHER										2
42	10 65Г 016	WASHER										12
Subgroup 1111. Fuel pump. Reduction gear unit (Fig. 8)												
	245-1111010-CR	REDUCTION GEAR UNIT										1
	245-1111015-CR	REDUCTION GEAR UNIT										1
1	245-1111116-CR	REDUCTION GEAR UNIT HOUSING										1
2	245-1111117-A-CR	REDUCTION GEAR UNIT COVER										1
3	245-1111118-CR	GASKET										1
4	245-1111119-CR	FUEL JET										1
	245-1111120-CR	REDUCTION GEAR UNIT SHAFT										1
5	245-1006210	DRIVE GEAR OF FUEL PUMP WITH PINS										1
6	245-1111121-CR	SHAFT										1
7	6x9	KEY										1
8	245-1111122-CR	DISTANCE BUSHING										1
9	245-1111126-CR	SLOTTED NUT										1
10	245-1111127-CR	LOCKING RING										2
11	245-1111128-CR	LOCKING MULTYTAB WASHER										1
	245-1111320-CR	DRIVE FLANGE										1
12	245-1006321-CR	DRIVE FLANGE										1
13	245-1121059-B	STUD										3
14	307	BEARING										2
15	2.6x14	PIN										2
16	M10-6gX30.88.35.016	BOLT										1
17	10 65Г 016	WASHER										1
18	4x6,5	KEY										1
19	M16-6H.5.06	NUT										1
20	16.01.08кп.016	WASHER										1
	245-1111025-CR	FUEL PUMP WITH GEAR										1
21	245-1006313	DRIVEN GEAR OF FUEL PUMP DRIVE										1
22	245-1111031-CR	COUPLING										4
23	240-3707124	GASKET										4



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
24	0 445 020 088	HIGH PRESSURE FUEL PIPE CP3.3 (produced by company BOSCH (Germany))										1
25	100-105-20-2-4	RING ГОСТ 18829-73										1
26	M18x1,5 (S27)	NUT delivered as a part of										1
27	18	WASHER high pressure fuel pipe										1
Group 13. Cooling system												
Subgroup 1306. Installation of thermostat body (Fig. 9)												
	245-1306030-Г	INSTALLATION OF THERMOSTAT BODY										1
1	M8-6gX25.88.35.016	BOLT										2
2	M8-6gX95.88.35.016	BOLT										2
3	50-1401067	WASHER										4
4	50-1306026	THERMOSTAT BODY LINING										1
5	50-1306028-B3 or 50-1306028-B4	THERMOSTAT HOSE										1
6	20-32 "NORMA-TORRO"	CLAMP										2
	245-1306040-B	THERMOSTAT BODY										1
7	245-1306021-Г	LOWER HOUSING										1
8	245-1306023	GASKET										1
9	245-1306025	HOUSING COVER										1
10	245-1306027	COUPLING										1
11	50-1401067	WASHER										4
12	TC107-1306100-04M or TA107-04 or TKCH.423117.061-01 (TP4-02)	THERMOSTAT WITH SOLID INGREDIENT										1
13	КТ 3/8". А12.016	PLUG										2
14	M8-6gX25.88.35.016	BOLT										4
15	245-3700004	BRACKET										2
Subgroups 1307 and 1308. Water pump installation. Fan coupling installation (Fig. 10)												
	245-1307000-Г	WATER PUMP INSTALLATION										1
1	M10-6gX45.88.35.016	BOLT										2
2	M10-6gX50.88.35.016	BOLT										1
3	10 65Г 06	WASHER										3
4	50-1307048-B	HOUSING LINING										1
	245-1307012-Г	WATER PUMP										1
5	50-1307049-A	TUBE LINING										1
	245-1307010-Г	WATER PUMP										1
6	50-1005161	WASHER										1
7	240-1307064	LOCKING RING										1
8	240-1307074-B	IMPELLER										1
9	240-1307075	BLIND PLUG										1
10	245-1307025-01	WATER PUMP HOUSING										1
11	245-1307052-Г	SHAFT										1
12	245-1307084 or 245-1307084-B	BUSHING										1
13	245-1307094	THRUST WASHER										1
14	245-1307163-A	WATER PUMP PULLEY										1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
15	1160305											2
16	Sp/1341											1
17	M16X1,5-6H.9.016 (S24)											1
18	KГ 3/8". A12.016											1
19	5X7,5											1
20	245-1306031											1
	245-1307060-02											1
21	50-1307044-B-01 or 50-1307044-B											1
22	245-1306027											1
23	245-1306031											1
24	M8-6gX45.88.35.016											2
25	50-1401067											2
	245-1308000-JI											1
26	245-1308023											1
27	020003301											1
28	M8-6gX25.88.35.016											6
29	8T 65Г 06											6
30	6PK-1250											1
Group 14. Lubricating system Subgroups 1009, 1401. Installation of oil crankcase (Fig.11)												
	245-1009000-Г											1
1	245-1009104											2
2	245-1009110-B											1
3	240-1401059-A1 or 50-1401059-A											1
4	240-1401065-A1 or 50-1401065-A											1
5	50-1401063-B1											2
6	50-1404075											1
7	Д09-035-A											1
8	M8-6gX25.88.35.016											22
9	8T 65Г 06											22
Subgroup 1017, 1404. Oil filter installation with liquid to oil heat exchanger (LOHE). Installation of LOHE tubes (Fig. 12)												
	245-1017000-B; 245-1017000-B-01											1
1	M10-6gX 30.88.35.016											3
2	M10-6gX 50.88.35.016											1
	245-1017010-B1; 245-1017010-B1-01											
3	245-1017005 or ТЖМ-5200; 245-1017005-A or ТЖМ-6500											1
4	245-1017012-B 245-1017015-B											1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
5	245-1017025										FILTER HOUSING	1
6	50-1404071-A										CENTRIFUGAL FILTER VALVE	1
7	50-1404072										ADJUSTING PLUG	1
8	50-1404075										PRESSURE RELIEF VALVE PLUG	2
9	50-1404083-A1										BLEEDER VALVE SPRING	1
10	Д18-055-A or Д18-055-A-01 or A23.10.002										O-RING	1
11	Д09-035-A										BYPASS VALVE PLUG GASKET	2
12	КГ 1/8" A12.016										PLUG	1
13	КГ 1/4" A12.016										PLUG	1
14	ΦM009-1012005 or M5101										OIL PURIFIER	1
15	50-1404068										CENTRIFUGAL FILTER HOUSING LINING	1
16	36-1104788										GASKET	4
	245-1307001										LOHE TUBES INSTALLATION	1
17	245-1017112										PLUG	2
18	245-1307214										SUPPLY HOSE	1
19	240-1401168										WASHER	2
20	18x27-1,6										HOSE (L=420 mm)	1
21	20-32 "NORMA-TORRO"										CLAMP	4
Subgroup 1403. Oil pump installation. (Fig. 13)												
	240-1400010-Б-01										OIL PUMP INSTALLATION	1
1	M12-6gX35.88.35.016 or M12-6gX40.88.35.016										BOLT	2
2	12T 65Г 06 or 12.OT.65Г.06										WASHER	2
	240-1402000-A3										INSTALLATION OF OIL PUMP RECEIVER	1
3	50-1402053										FLANGE LINING	1
4	240-1402010-A3										OIL RECEIVER	1
5	M8-6gX50.88.35.016										BOLT	2
6	8T 65Г 06										WASHER	2
7	50-1403015-A2										OUTLET PIPE	1
8	M8-6gX20.88.35										BOLT	4
9	8T 65Г 06										WASHER	4
10	50-1403033										FLANGE LINING	2
	50-1403010-Б1										OIL PUMP	1
11	M8-6gX50.88.35										BOLT	4
12	8T 65Г 06										WASHER	4
13	240-1002044										PIN	2
	50-1403110-Б										DRIVEN GEAR OF OIL PUMP	1
14	50-1403115-Б										DRIVEN GEAR OF OIL PUMP	1
15	Д08-002-A or A57.03.028-A										BUSHING OF OIL PUMP HOUSING BUSHING OF INTERMEDIATE GEAR	1
16	50-1403125-Б										DRIVEN GEAR PIN	1
17	50-1403233										LOCKING PIN	2
	240-1403020										OIL PUMP HOUSING	1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
18	240-1403025	OIL PUMP HOUSING										1
19	50-1403019-Б or A57.03.026-A	HOUSING BUSHING										1
	240-1403120-A-01	SHAFT										1
20	50-1403052-B	OIL PUMP SHAFT										1
21	50-1403075-B	DRIVE GEAR OF OIL PUMP										1
	240-1403150	OIL PUMP COVER										1
22	240-1403155	OIL PUMP COVER										1
23	50-1403012-Б or A57.03.027-A	HOUSING BUSHING										1
24	50-1403228-Б	GEAR OF OIL PUMP DRIVE										1
Subgroup 1118. Oil pipelines of turbocharger (Fig. 14)												
	245-1118000-Д	OIL PIPELINES OF TURBOCHARGER										1
1	245-1118010-M	SUPPLY PIPE										1
2	245-1118016	GASKET										1
3	245-1118030-M	RETURN TUBE										1
4	245-1118034-Б	GASKET										1
5	M8-6gX 20.88.35.016	BOLT										4
6	245-1118015-Б	COUPLING										1
7	245-1118020-A1	COVER										1
8	240-1002444-A1	GASKET										1
9	M8-6gX16.88.35.016	BOLT										3
10	M8-6gX25.88.35.016	BOLT										1
11	8T 65Г 06	WASHER										8
12	245-1118050	CLAMP										1
13	245-1118055	PLATE										1
14	260-1118007	GASKET										1
15	M6-6H.6.016(S10)	NUT										1
16	6 65Г 06	WASHER										1
17	6.01.08KП.016	WASHER										1
18	50-1306028-Б3 or 50-1306028-Б4	THERMOSTAT HOSE										1
19	20-32 "NORMA TORRO"	CLAMP										2
Drives												
Subgroup 1022. Installation of steering control pump (Fig.15)												
	240-1022040	INSTALLATION OF STEERING CONTROL PUMP										1
1	ННН 14-3Л or ННН 16-3Л	GEAR-TYPE PUMP										1
2	M8-6gX30.88.35.016	BOLT										4
3	M8-6gX70.88.35.016	BOLT										1
4	8T 65Г 06	WASHER										5
5	240-1022062	GASKET										1
6	240-1022075-A1	GASKET										1
	240-1022030	HYDRAULIC PUMP DRIVE										
7	240-1022061-Б	GEAR OF HYDRAULIC PUMP DRIVE										1
8	240-1022069	HOUSING										1



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group
		1	2	3	4	5	6	7	8	9		
9	240-1307064-01 or A52	RETAINER RING										1
10	B25	RING										1
11	205K	BALL BEARING										2
Subgroup 3509. Compressor installation (Fig. 16)												
	245-3509070-02	COMPRESSOR INSTALLATION										1
1	A29.05.000-03 Б3А	COMPRESSOR										1
2	240-3509037-A	GASKET										1
3	240-3509150-01	OIL PIPELINE (L=410 mm)										1
4	240-3509158	CLAMP										1
5	240-3509159	JOKE										1
6	240-3509232	COUPLING										1
7	36-1104788	GASKET										3
8	36-1104787	COUPLING BOLT										1
9	M6-6H.6.016(S10)	NUT										1
10	M10-6H.6.016(S16)	NUT										3
11	M6-6gX16.88.35.016	BOLT										1
12	M10-6gX45.88.35.016	BOLT										1
13	6 65Г 06	WASHER										1
14	10 65Г 06	WASHER										3
Group 37. Electrical equipment												
Subgroup 3700. Installation of electrical equipment (Fig. 17)												
	245-3700050	INSTALLATION OF ELECTRICAL EQUIPMENT										1
1	0 281 002 209	COOLANT TEMPERATURE SENSOR										1
		WTF (produced by company BOSCH (Germany))										
2	0 281 002 576	OIL PRESSURE AND TEMPERATURE SENSOR LDF6T (produced by company BOSCH (Germany))										1
3	0 261 230 112	OIL PRESSURE AND TEMPERATURE SENSOR ODFT (produced by company BOSCH (Germany))										2
4	0 281 006 009	ROTATION VELOCITY SENSOR DG6 (produced by company BOSCH (Germany))										2
5	245-3700003	BRACKET										1
6	245-3700005 or M2-14.13.238	RUBBER TIP										4
		CASE										8
7	245-3724010	SENSOR CORD										1
8	245-3724110	INJECTOR CORD										1
9	80-3723045 or 6430-3724624	COLLAR										9
		CLAMP										9
10	M4-6H.6.016 (S7)	NUT										8
11	B.M3-6gX10.58.016	SCREW										8
12	M6-6gX16.88.35.016	BOLT DIN 6921										3
13	M6-6gX20.88.35.016	BOLT DIN 6921										3
14	M6-6gX14.88.35.016	BOLT										3
15	3 65Г 06	WASHER										8
16	4 65Г 06	WASHER										8
17	6 65Г 06	WASHER										5
18	3.01.08кп.016	WASHER										8
19	4.01.08кп.016	WASHER										8



UP MINSK MOTOR PLANT

Pos. No on figure.	Assembly unit and part No	Name										Q-ty in group	
		1	2	3	4	5	6	7	8	9			
20	6.01.08кп.016	WASHER										5	
Subgroup 3701. Alternator installation (Fig. 18)													
	245-3701050-Ж	ALTERNATOR INSTALLATION										1	
1	260-3701057	SPLIT BUSHING										1	
2	245-3701056-И	ALTERNATOR BRACKET										1	
3	245-3701060-Ж	SHIELD										1	
4	245-3701063-Ж	PLATE										1	
5	245-3701069	WASHER										2	
6	245-3701100	ROLLER BRACKET										1	
7	245-3701101	SPECIAL BOLT										2	
8	245-3701102	SPECIAL BOLT										1	
	245-3701110-Ж	ALTERNATOR WITH PULLEY										1	
9	245-3701051-Ж	PULLEY										1	
10	AAN 5506	ALTERNATOR										1	
11	M16-6H.6.016	NUT } delivered as a part of WASHER } alternator AAN 5506										1	
12	16 65Г 06											1	
13	M8-6H.6.016(S13)	NUT										1	
14	M10-6H.6.016(S16)	NUT										2	
15	M10-6gX95.88.35.016	BOLT										1	
16	M10-6gX115.88.35.016	BOLT										1	
17	8T 65Г 06	WASHER										1	
18	10 65Г 06	WASHER										2	
19	10.01.08кп.016	WASHER										1	
20	560-1045010-10	BELT TENSIONER (produced by OAO Rikor Electronics, Arzamas) } a part of fan coupling 245-1308000-И										1	
21	M10x50-8.8.016											BOLT DIN 912	1
22	10 65Г 06											WASHER	1
23	M10-6gX50.88.35.016	BOLT } a part of water pump 245-1307000-Г WASHER } Pos.2 and Pos.3										1	
24	10 65Г 06											1	
Delivered with motor													
	242-3509213	COUPLING										1	
	245-3724260	SENSOR EXTENSION CORD										1	
	245-3724360	INJECTOR EXTENSION CORD										1	
	ТД 245Е3-3700-001-01	PART SET										1	
		PROGRAMMED CONTROL UNIT										1	
	245-3763010-12;	- for motor D-245S3A; - for motor D-245.2S3A; - for motor D-245.5S3A; - for motor D-245.43S3A											
	245-3763010-14;												
	245-3763010-11;												
	245-3763010-13												

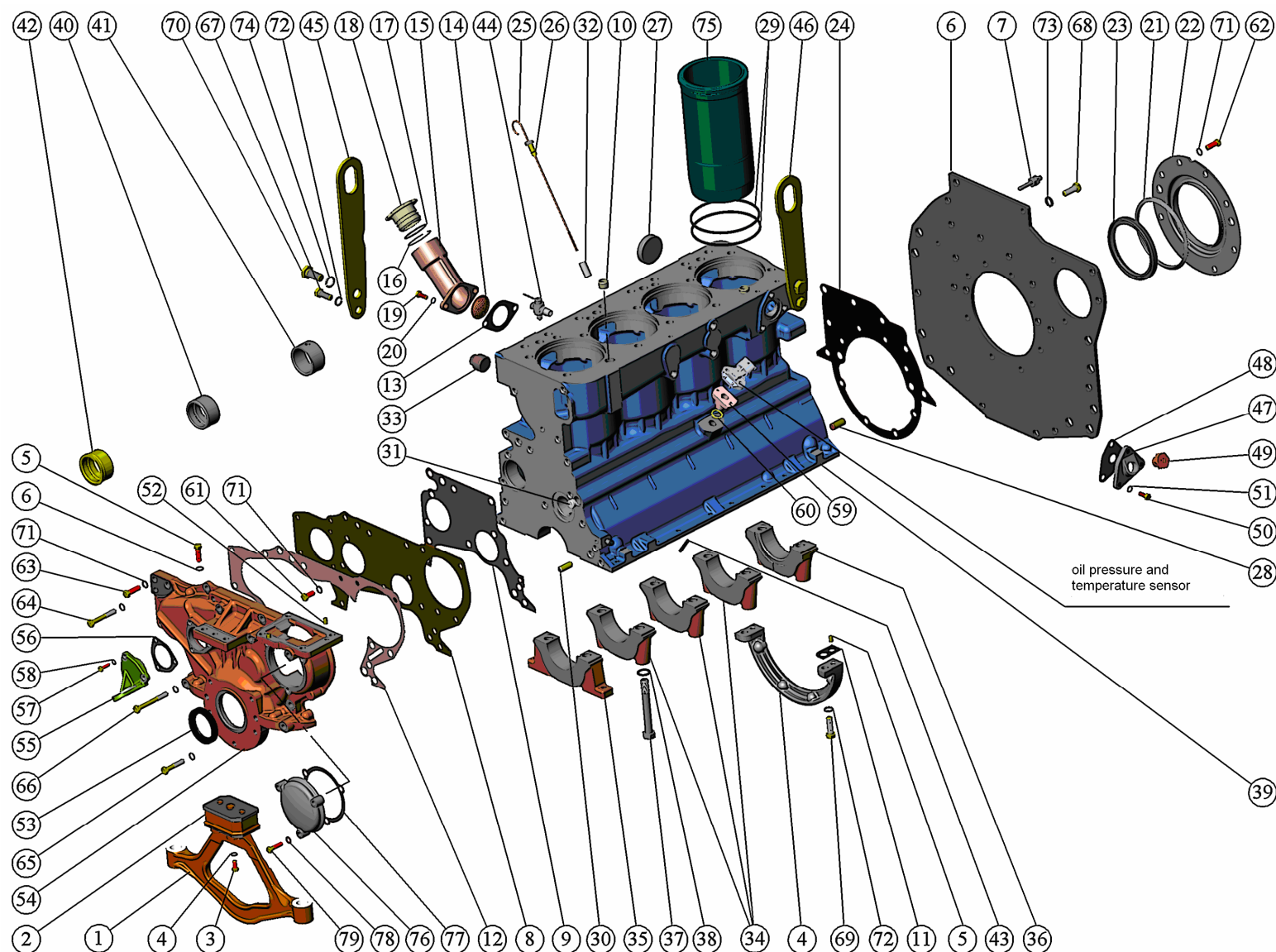


Fig. 1 Cylinder block. Front support installation.

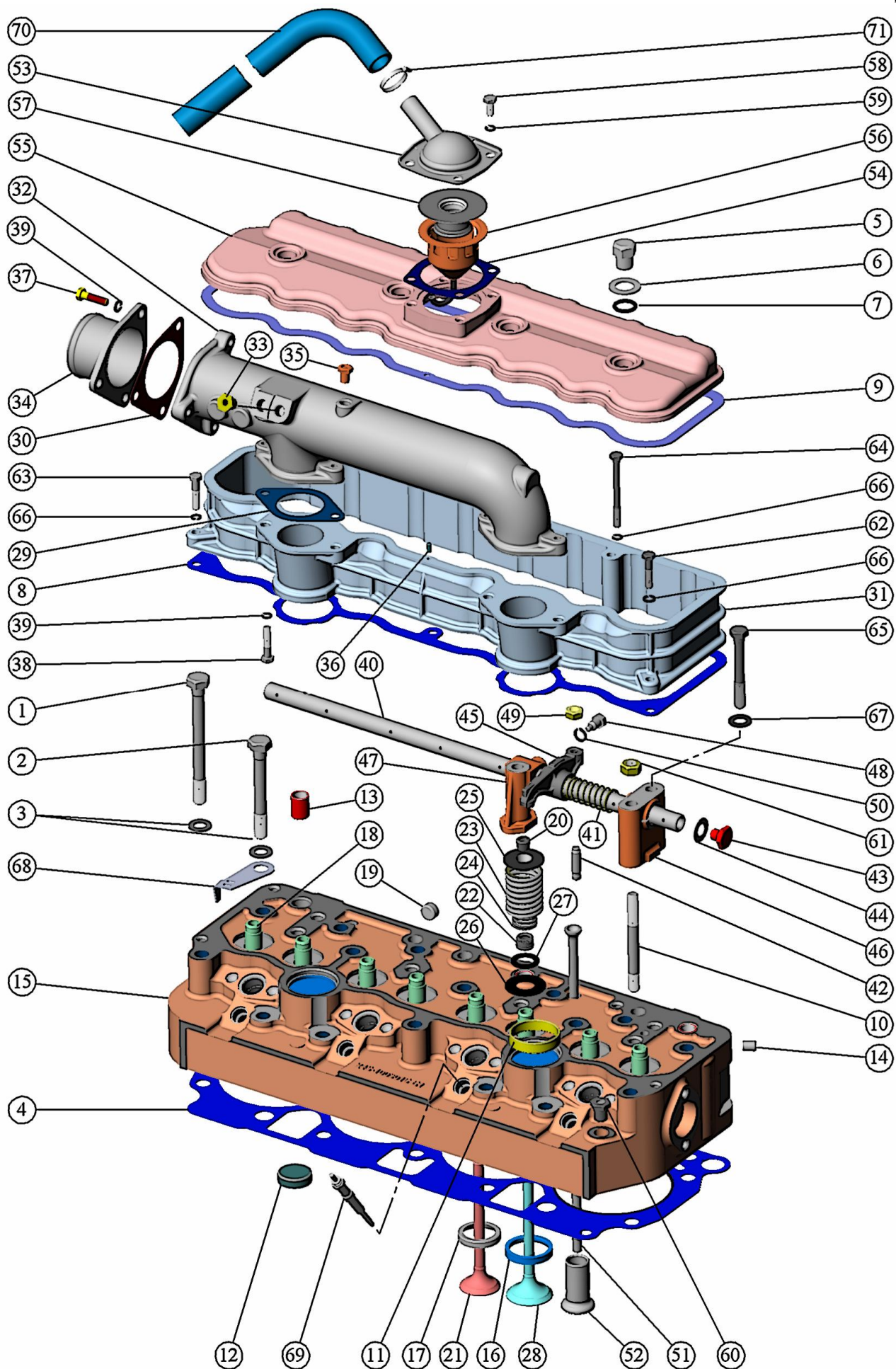


Fig. 2 Installation of cylinder head and inlet line. Valves and valves lifters..

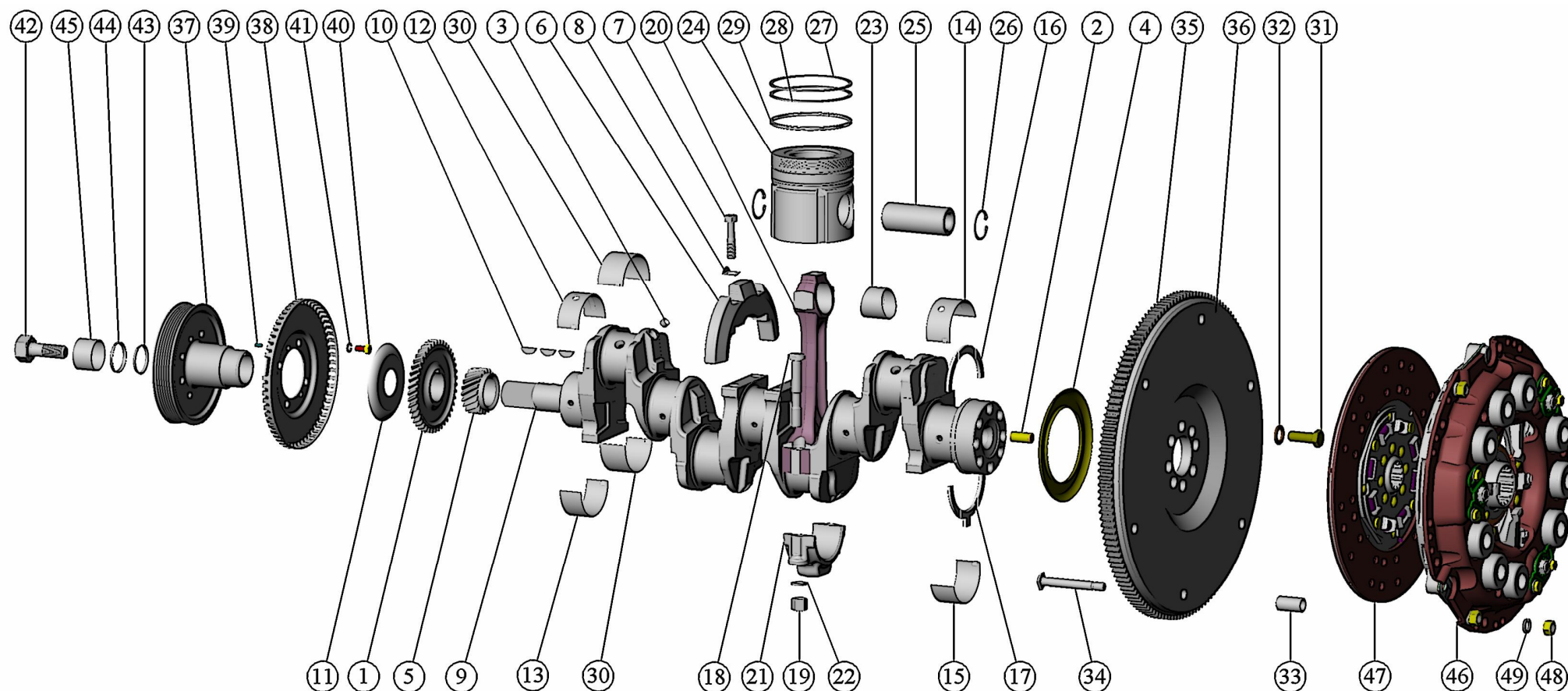


Fig. 3 Crank-and-rod mechanism. Installation of clutch coupling.

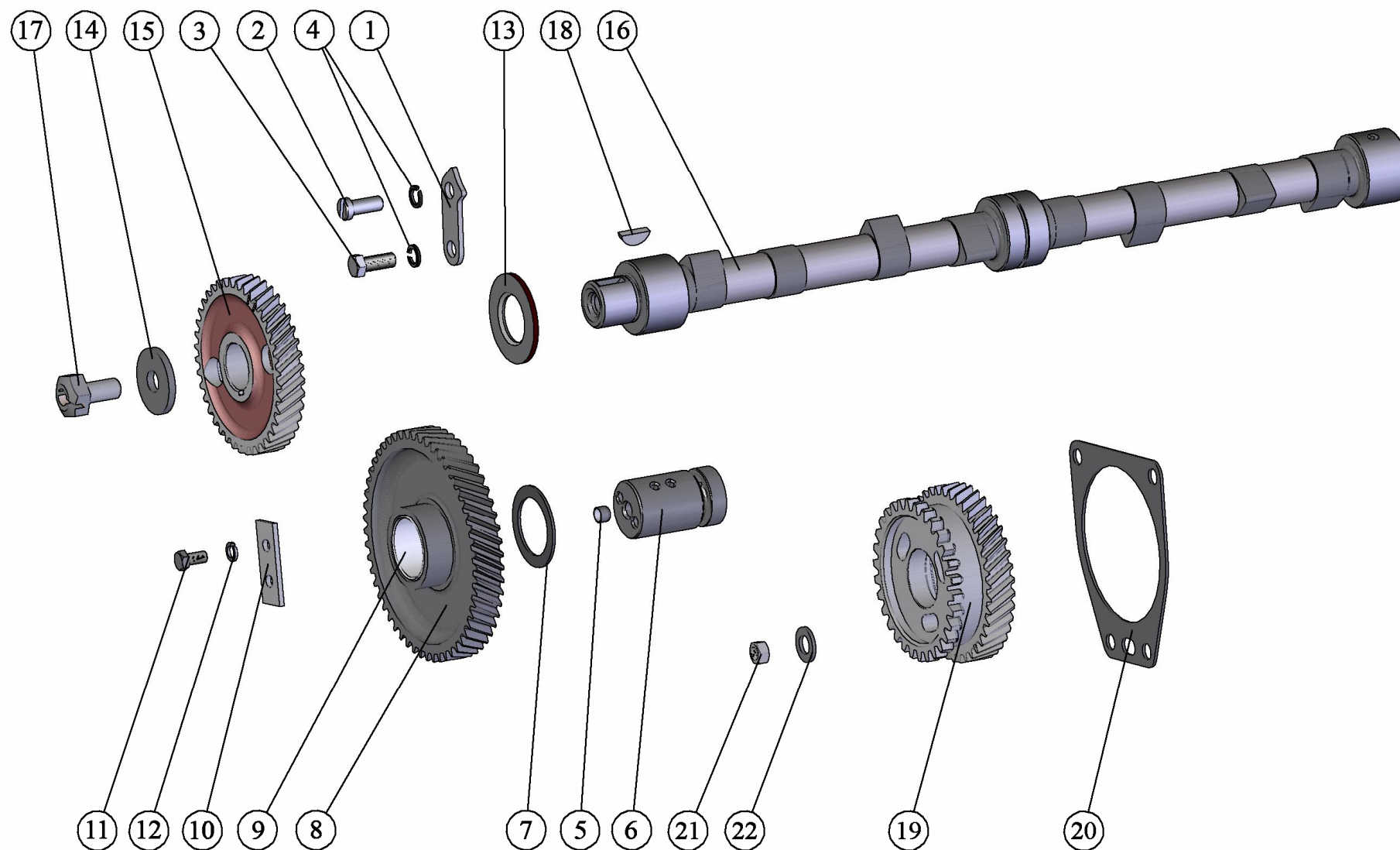


Fig. 4 Distributing gear.

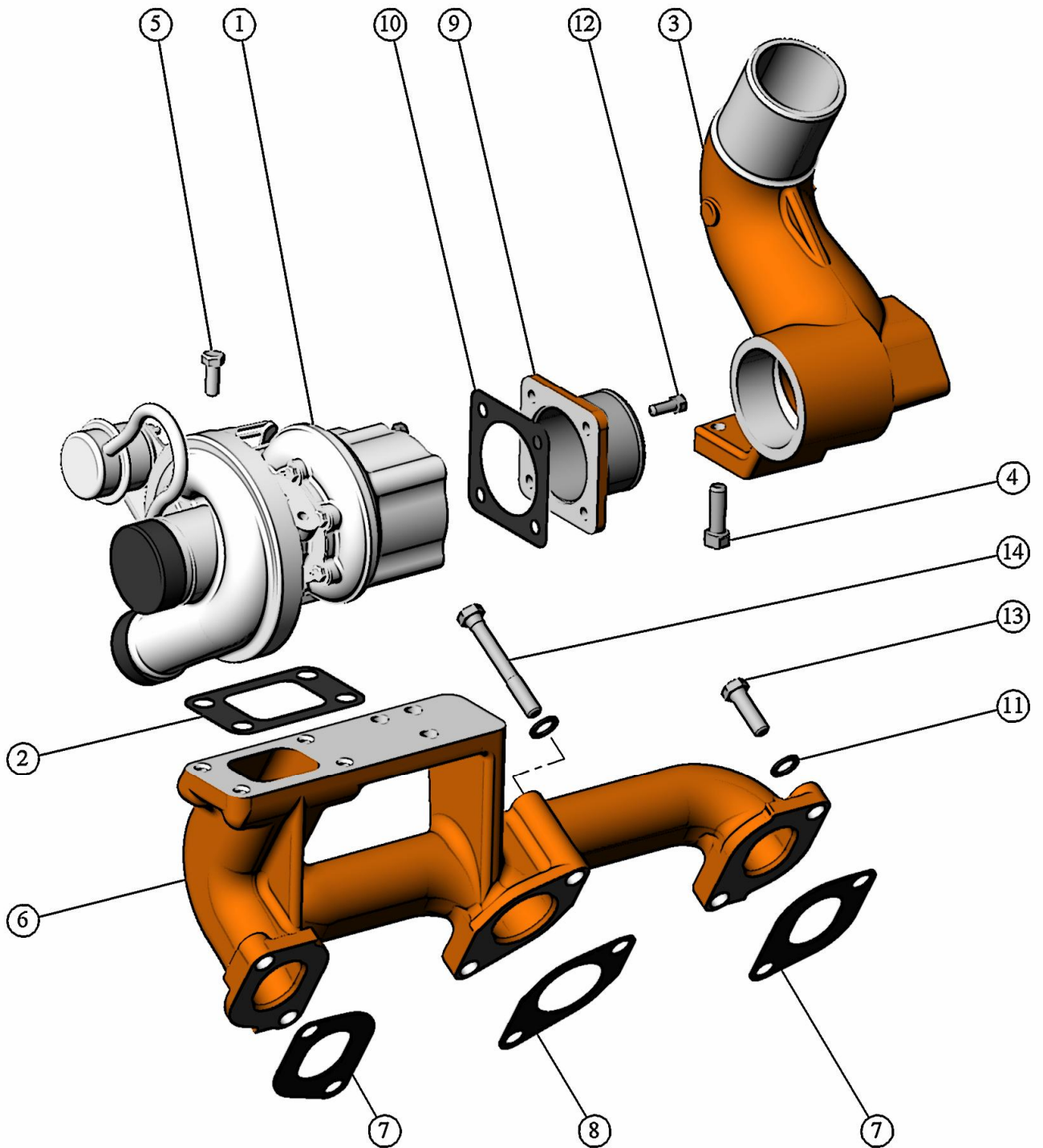


Fig. 5 Turbocharger installation.

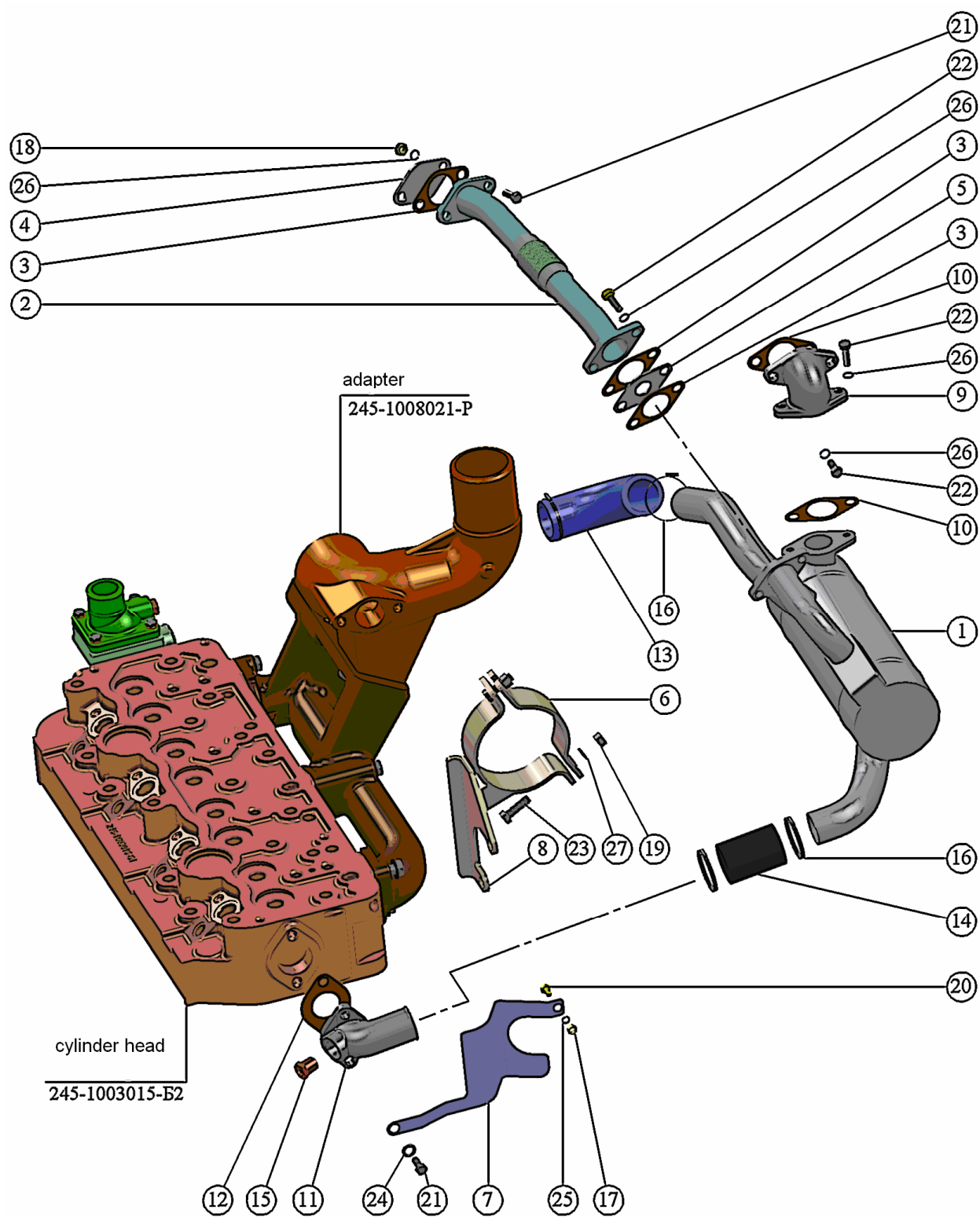


Fig. 6 Installation of exhaust gases recirculation unit (EGRU).

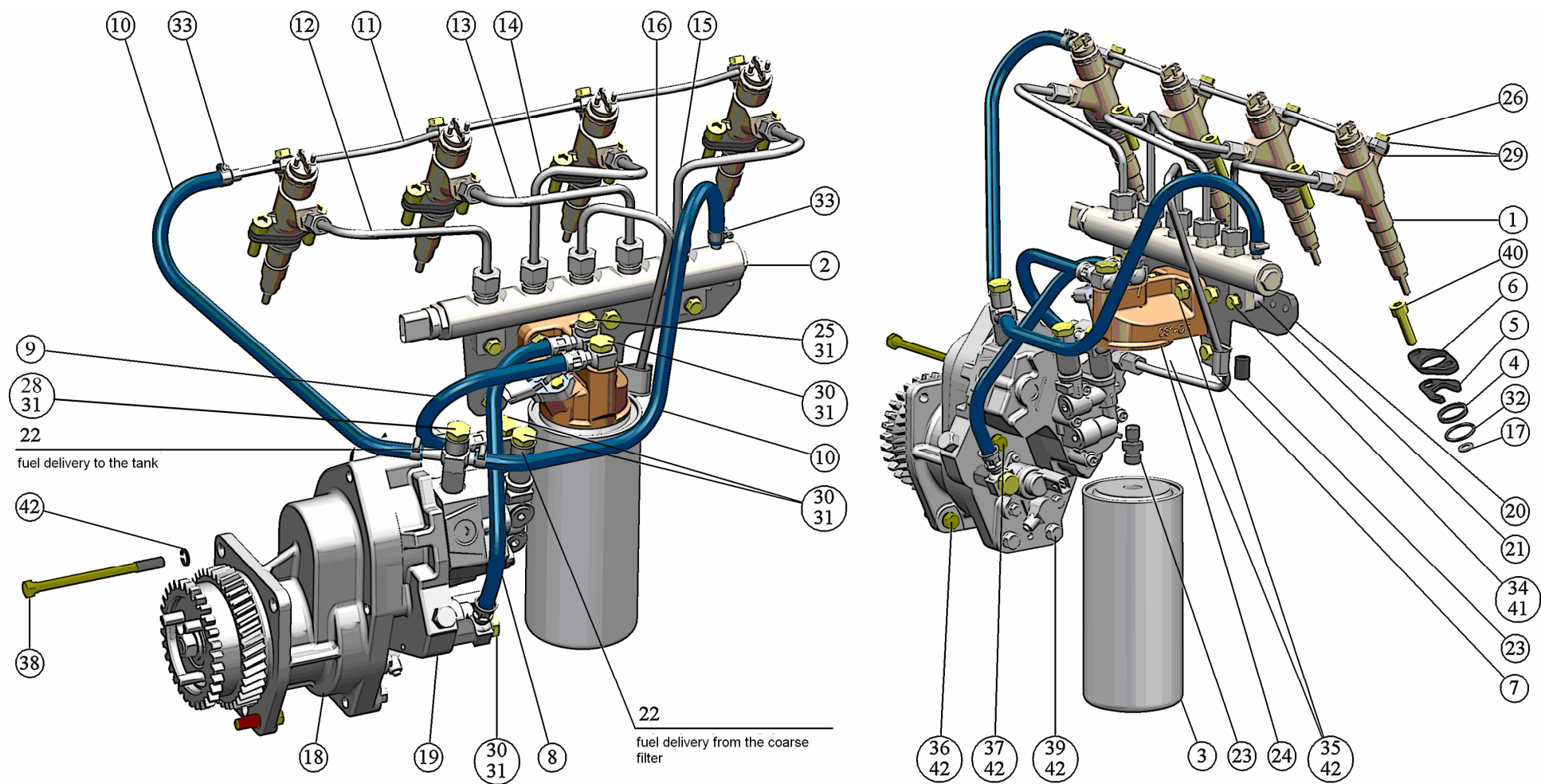


Fig. 7 Fuel pipelines and combustible equipment installation.

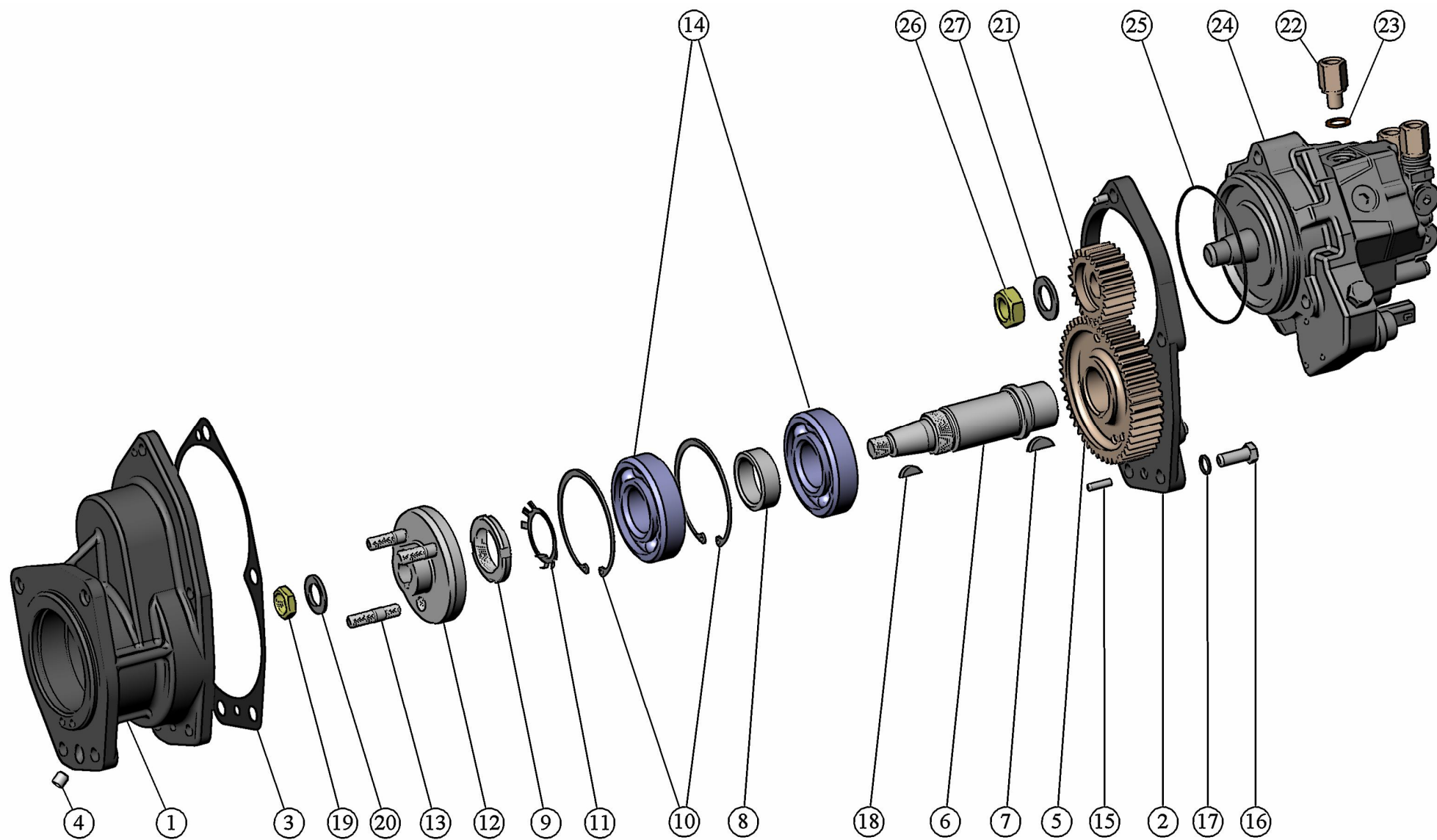


Fig. 8 Fuel pump. Reduction gear unit.

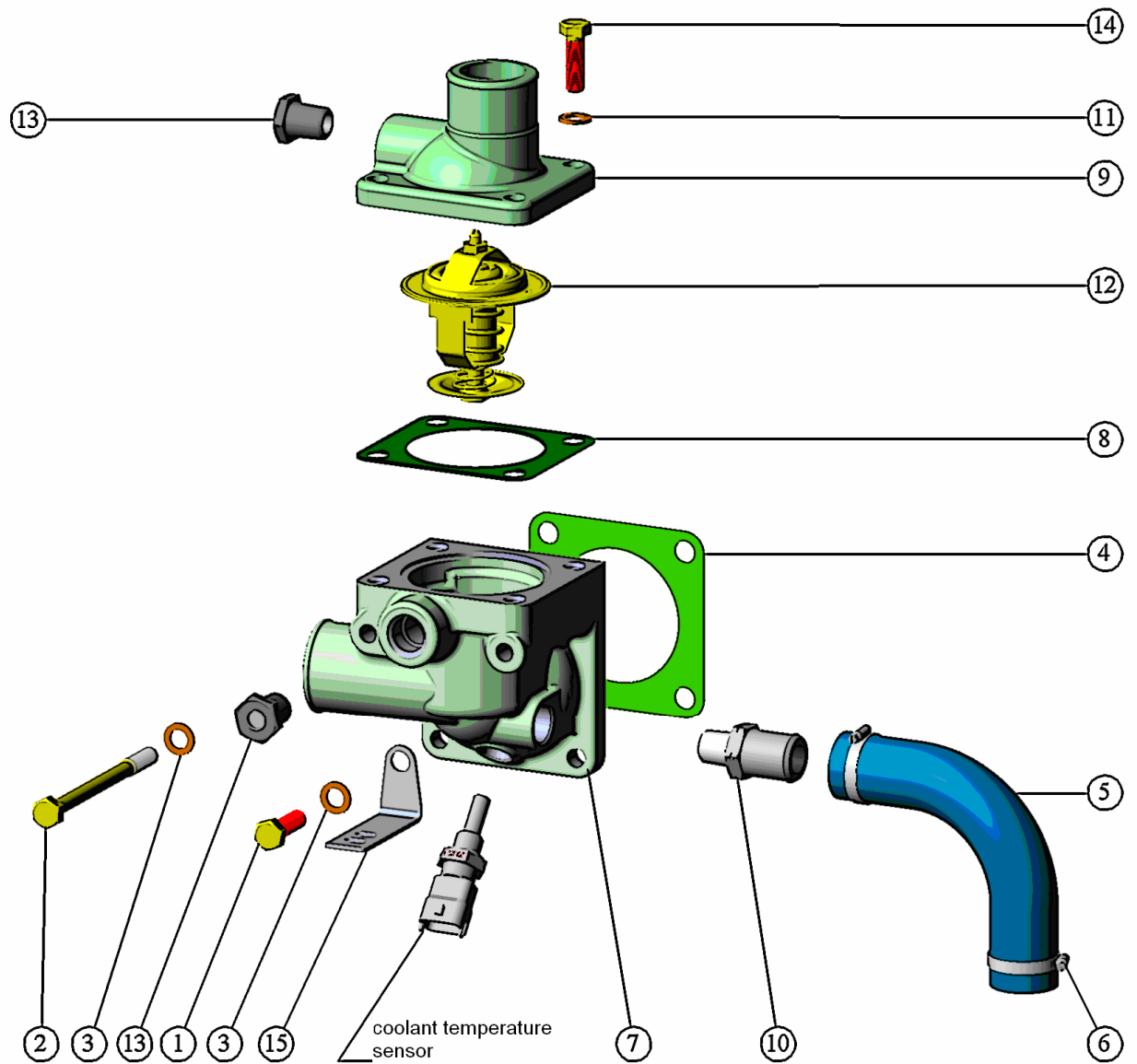


Fig. 9 Installation of thermostat body.

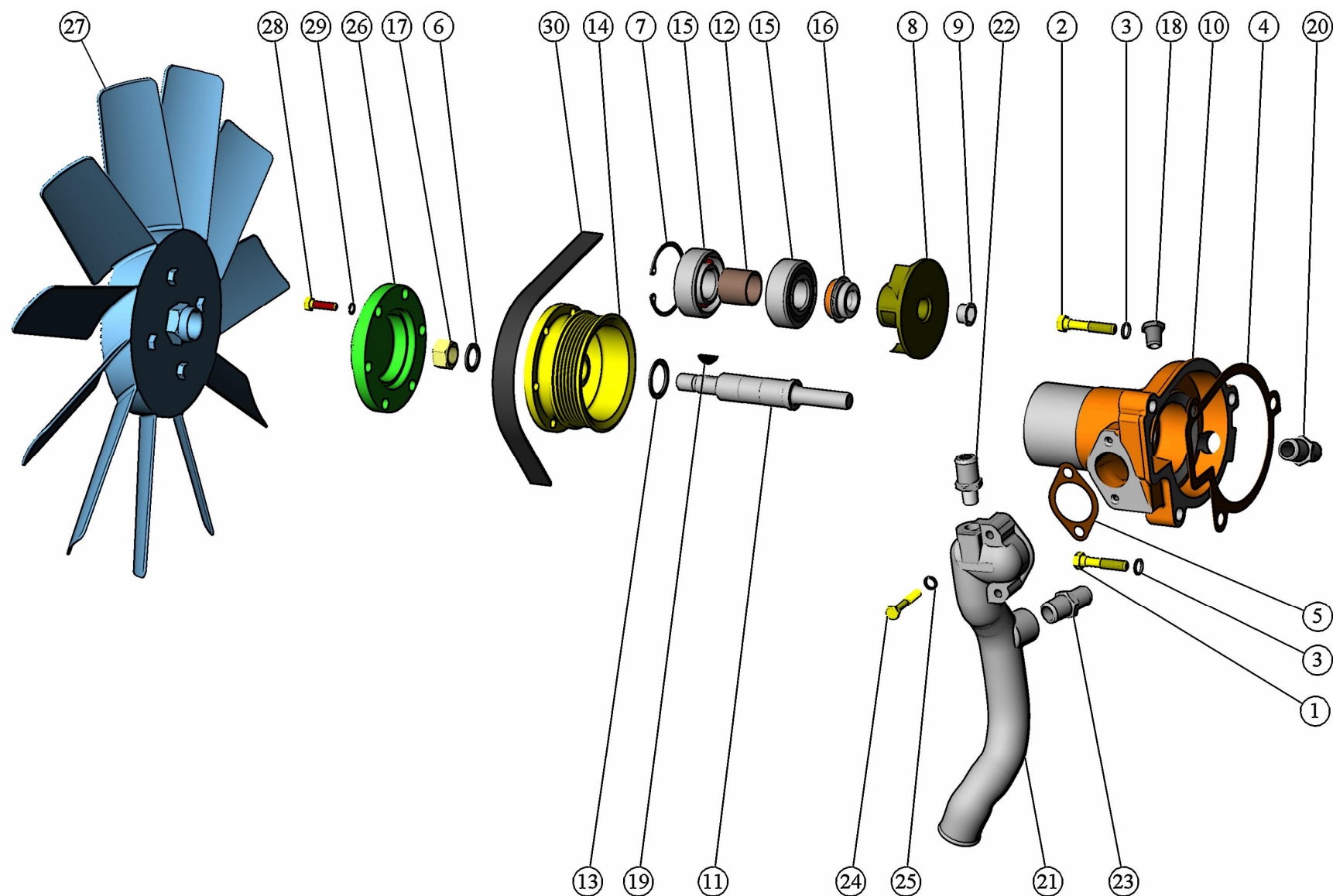


Fig. 10 Water pump installation.

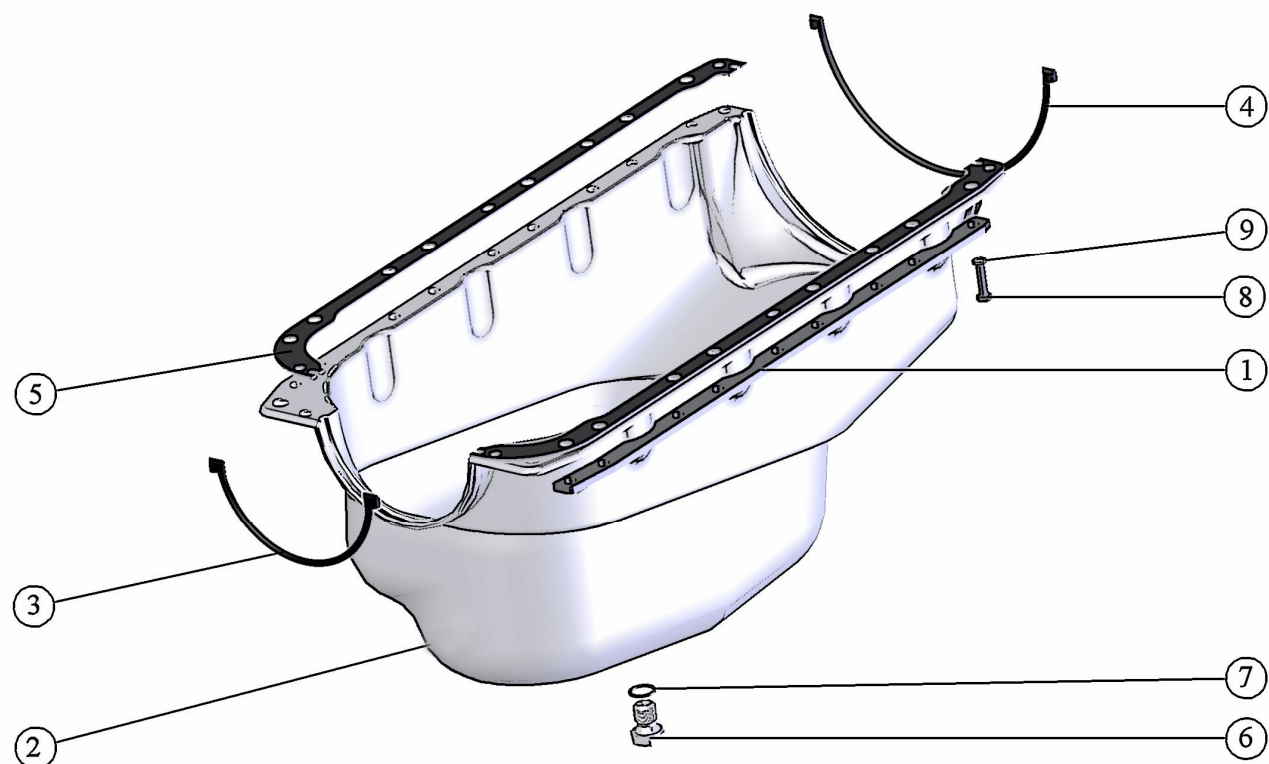


Fig.11 Installation of oil crankcase.

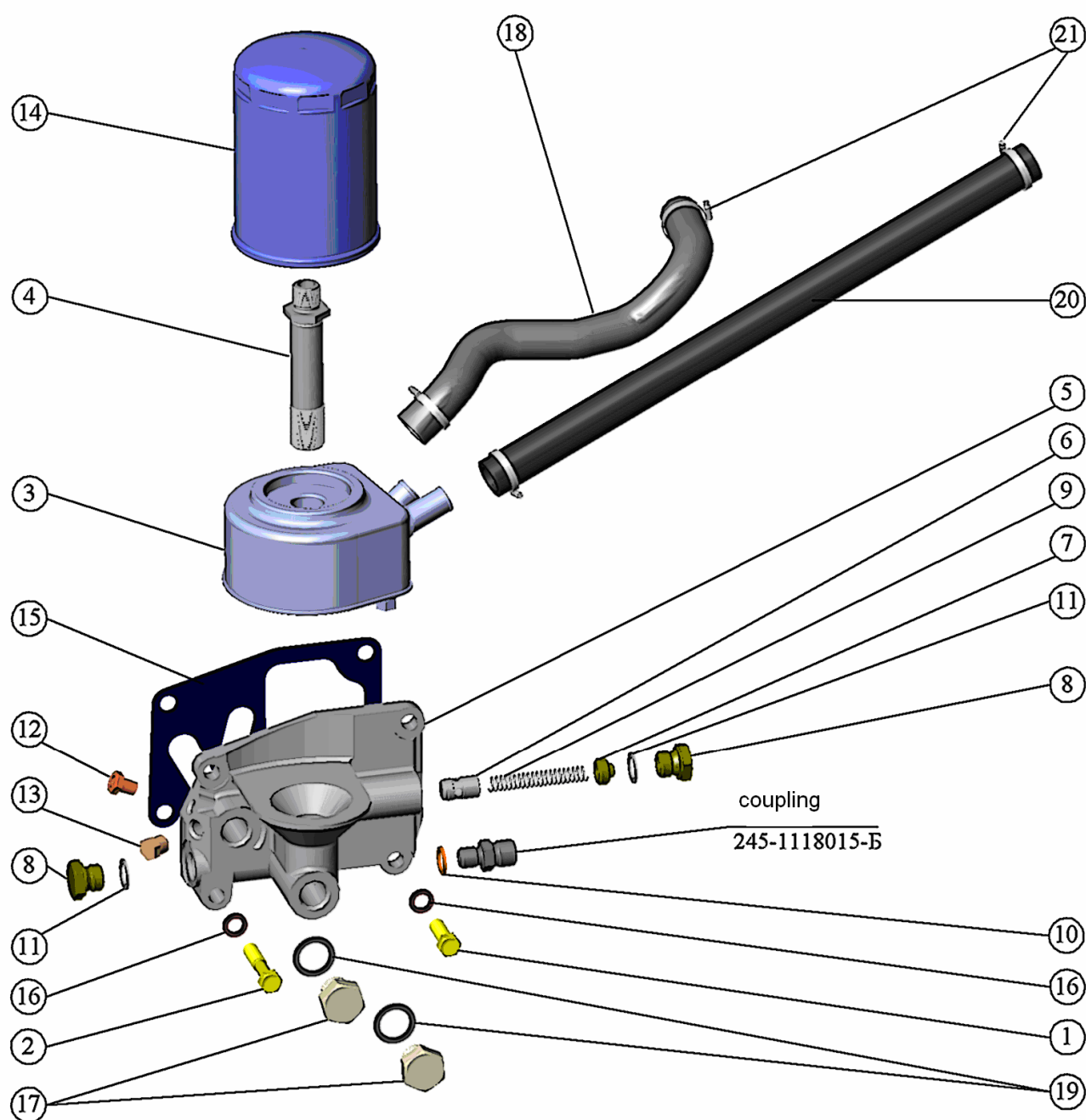


Fig. 12 Oil filter installation with liquid-to-oil heat exchanger.
Installation of LOHE tubes.

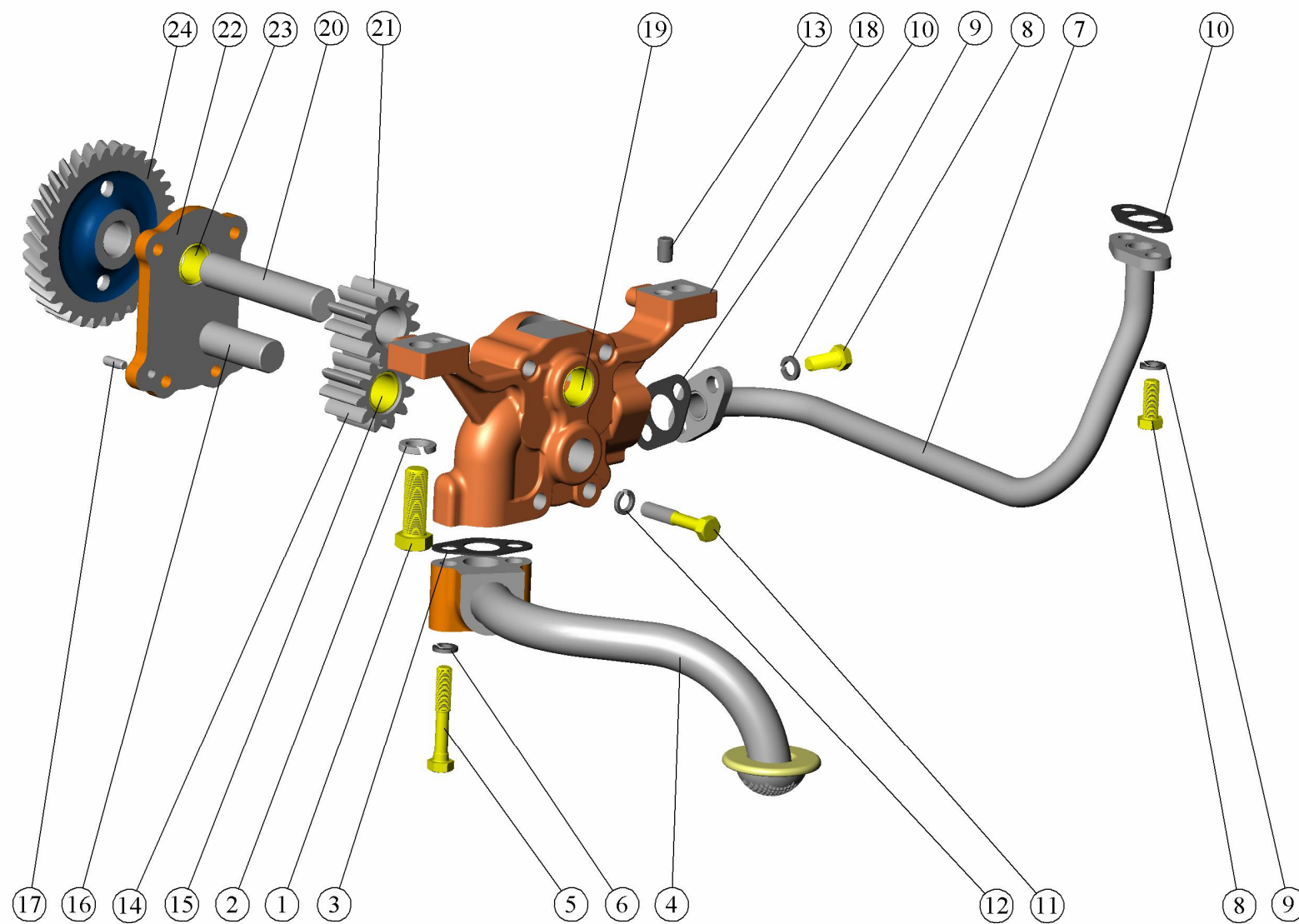


Fig. 13 Installation of oil pump.

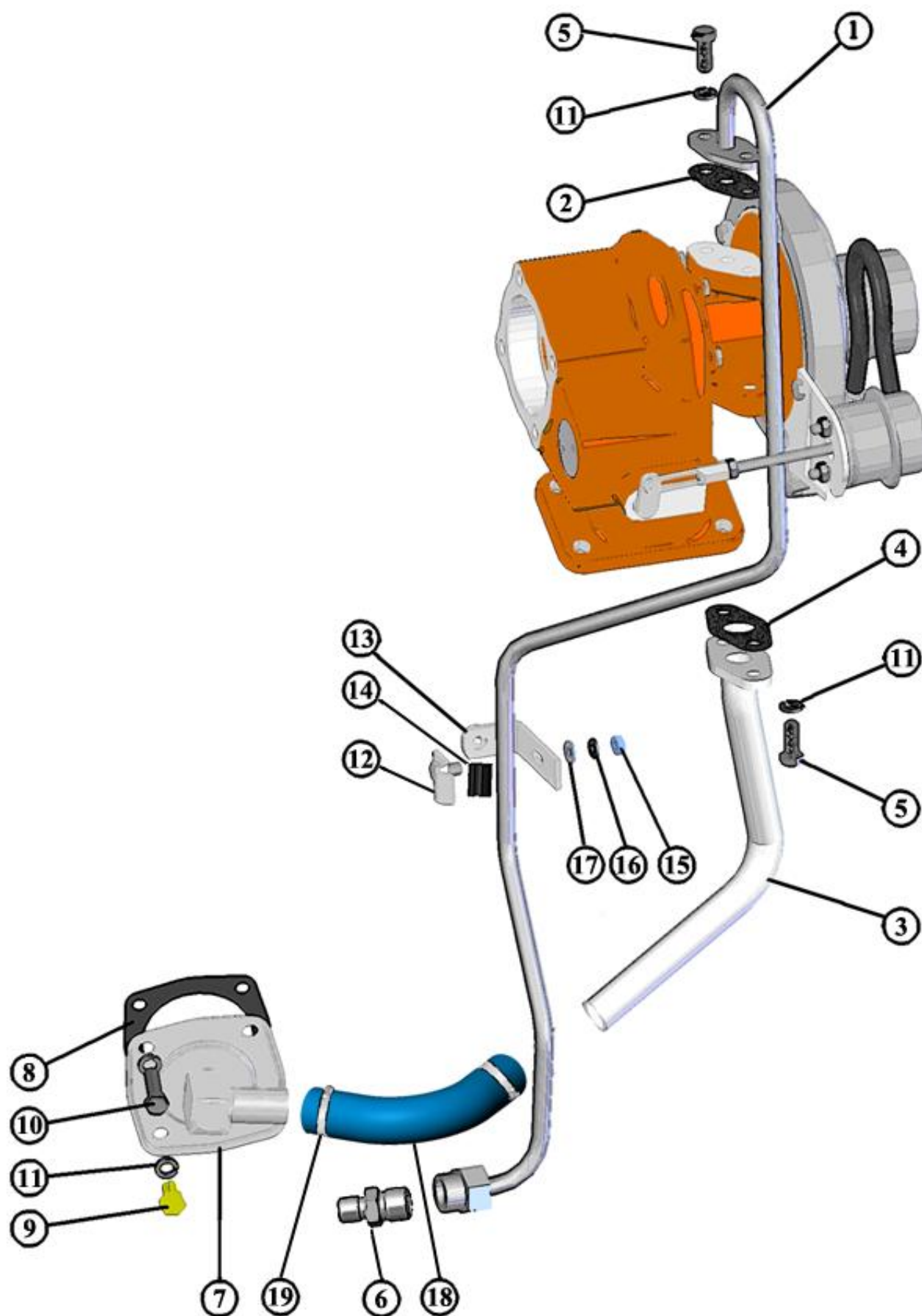


Fig. 14 Oil pipelines of turbocharger.

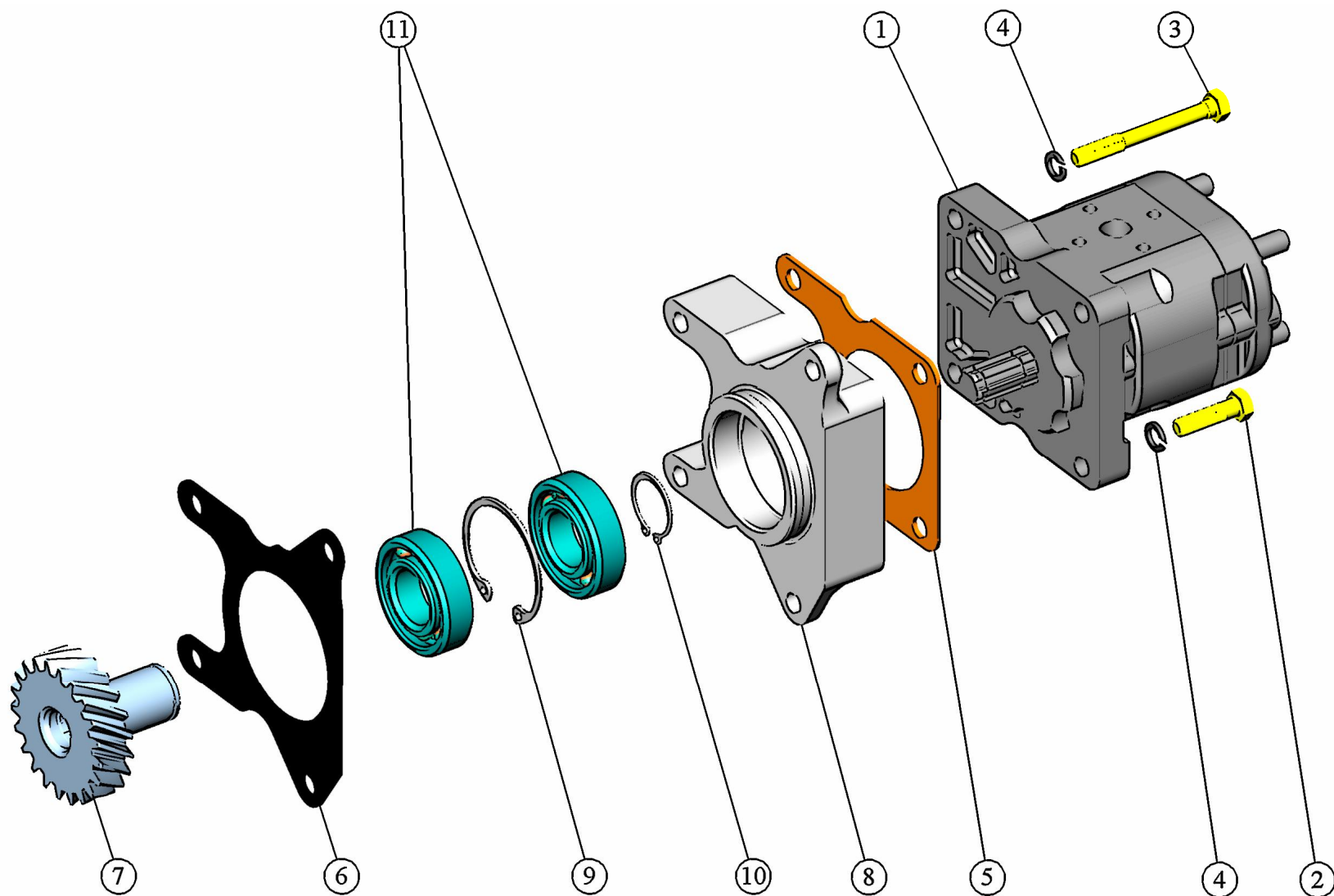


Fig. 15 Installation of steering control pump.

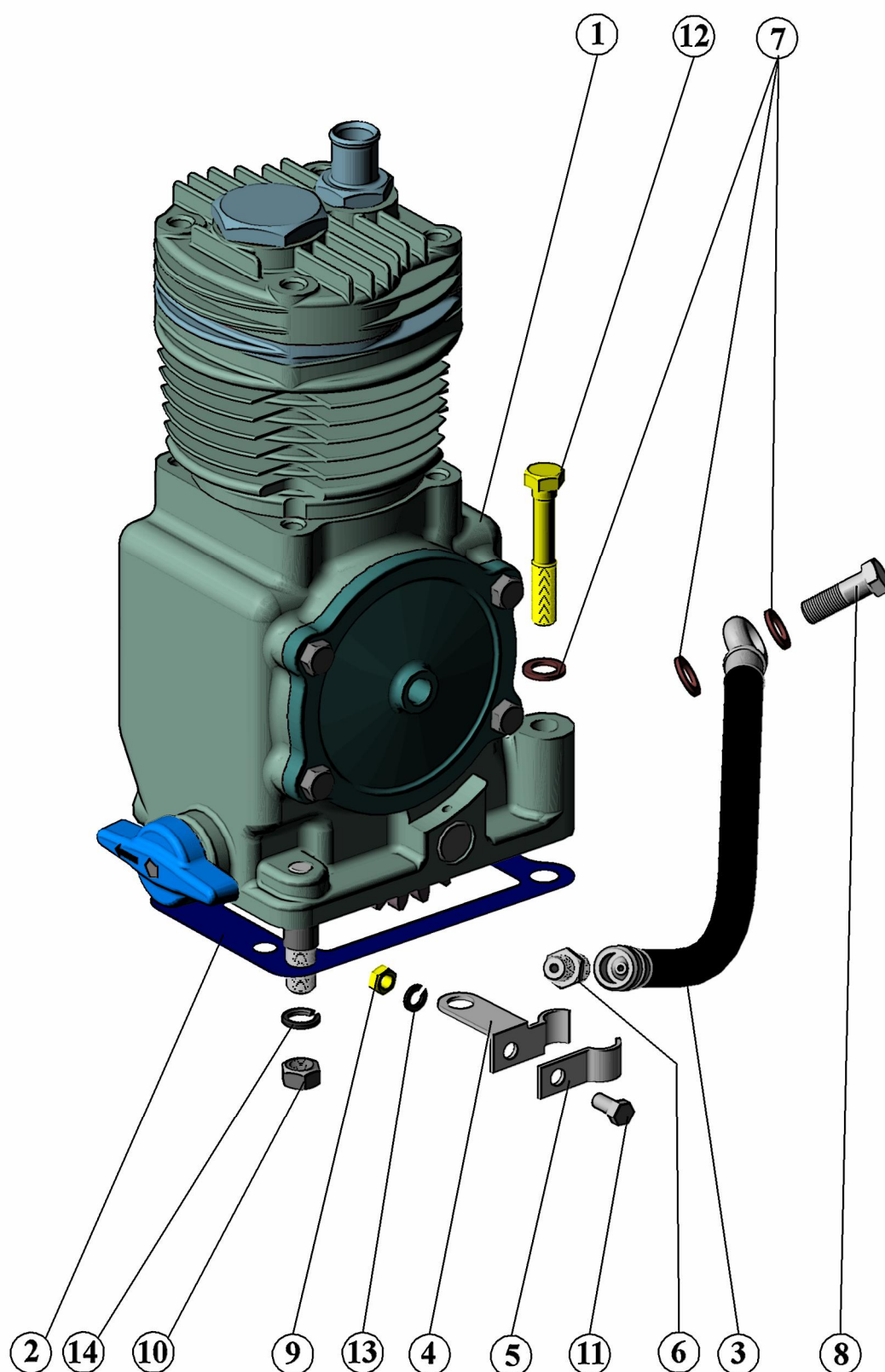


Fig. 16 Compressor installation.

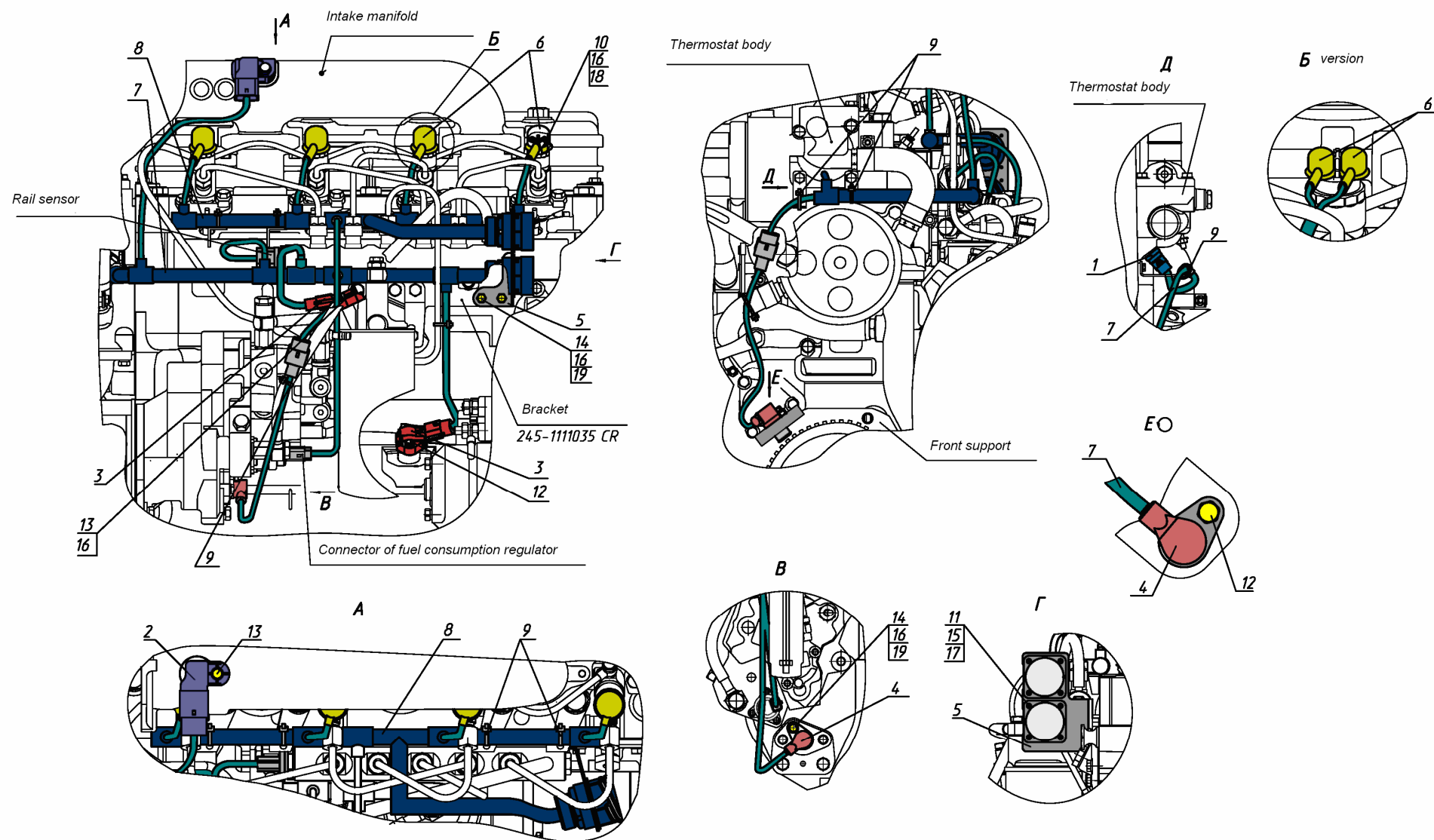


Fig. 17 Installation of electrical equipment.

