
BELARUS
1221/1221B
1221.2/1221B.2
1221.3/1221B.3

1221-0000010KDS

**CATALOGUE OF PARTS AND
ASSEMBLY UNITS**

The catalogue was prepared by engineer of Main Specialized Design Bureau (MSDB) *I.V. Razmyslovich*. Basic data was provided by key specialists of MSDB of Republican Unitary Enterprise “Minsk Tractor Works”.

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

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

Publications Assistant — *O.N. Natalevich*, Head of Design Bureau of Maintenance Documentation.

RUE “Minsk Tractor Works” constantly works on improving the output goods and retains the right to change the design, technical data without prior notification of the customers.

Some designations, descriptions and figures in this catalog may differ from actual ones on your tractor. For detailed information, contact your dealer and use information bulletins, published by PA “MTW” and regularly circulated among the consumers.

© RUE “Minsk Tractor Works”, 2009

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

CONTENTS

Introduction.....	4
How to use the catalogue.....	4
Application.....	5
Technical data	6
Index of groups, subgroups of assembly units and parts of the catalogue	8
Assembly units and parts	12

INTRODUCTION

The present catalogue contains the whole range of assembly units and parts for tractors BELARUS-1221/1221B/1221.2/1221B.2/1221.3, accomplished in accordance with four-wheel drive scheme (4x4) and equipped with six-cylinder in-line diesel engines of Minsk Motor Works Д-260.2, Д-260.2S, Д-260.2S2 (130 h.p.) with boost-pressure charge and electric starter start.

HOW TO USE THE CATALOGUE

The catalogue consists of three Sections:

1. Assembly units and tractor parts.
2. Standardized parts (bearings, collars, rings).
3. Nomenclature index.

Assembly units and parts in Section I are divided into groups and subgroups according to functional attribute. This Section is well illustrated with axonometric figures of knocked-down tractor components. All parts in the figures have sequence numbers (positions numbers), successively increasing in clockwise direction. In order to make the use of the catalogue convenient when looking for a necessary part, the same sequence numbers are situated in the column "position No" in the text part of the catalogue in ascending order from top downward. The illustrations, given in the text of the catalogue and well-established from the artistic viewpoint, make it possible for user to become familiar with parts and assembly units constructions and their configuration and can also help in dismantling and reassembling the tractor or its components.

For example, we read the following record in the text of the catalogue:

"...260-1004100-A 6 Connecting rod (10,17,18,35-37)".

This means, that assembly "connecting rod" in quantity of 6 pcs per one diesel consists of parts: bushing (Pos. No 10), connecting rod (Pos. No 17), connecting rod bolt (Pos. No 18), connecting rod cap (Pos. No 35), washer (Pos. No 36) and nut (Pos. No 37). The column "Quantity" indicates the number of assembly units and parts, used in the given subgroup (1004) per one tractor.

A traditional seven-digit system of assembly units and parts designation is used for tractors "BELARUS-1221/1221B" (after prefix).

The suffixes 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.

The suffixes 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 "260-1104300-Б1-01 (1-st cylinder fuel pipe)" and "260-1104300-Б1-02 (2-nd cylinder fuel pipe)" have different construction and are **not interchangeable**.

Some parts, adopted from previous tractor models, have alpha-numeric designations. For example, “Д18-055-A-01 Sealing ring”.

Section 2 “Standardized parts” covers standard sizes of frictionless bearings, collars and rubber “O”-rings, their installation locations and quantity per one tractor.

Section 3 “Nomenclature Index” lists parts and assembly units, arranged in the order of increasing designations numbers, with references to figures numbers and numbers of positions on the figures. It simplifies the search of the necessary part in the catalogue, if its number is known.

APPLICATION

The universal wheeled tractors “BELARUS-1221/1221B/1221.2/1221B.2/1221.3” are designed to perform all kinds of agricultural works with mounted, semi-mounted and trailed machines and implements. They can be used for heavy duty works with bulldozers, excavators, front-end loaders, ditchers, for transport operations and for driving different stationary equipment of agricultural and industrial applications.

TECHNICAL DATA

GENERAL			
Tractor type	Wheeled, universal, drawbar category 2		
Tractor trademark	BELARUS		
Tractor model	1221/1221B/1221.2/1221B.2/1221.3		
Overall dimensions, mm:			
• length (with lower links in raised position)	4950+40		
• width (over outer ends of rear half-axels)	2250+10		
• height (to top of cab)	2850+50		
Wheelbase, mm	2750+30		
Wheel track, mm:			
• front	1540-2090		
• rear	1600-2400		
Ground clearance, not less than, mm:			
• under front and rear half-axle sleeves	645±5		
• under rear axle	465±5		
Minimum turning circle, m	5,0		
Shipping weight, kg	5150+100		
DIESEL ENGINE			
Trademark	«MMZ»		
Model	Д-260.2	Д-260.2S	Д-260.2S2
Type	4-stroke, turbocharged		4-stroke turbocharged, with intercooling
Mixing process	Direct injection		
Number of cylinders	6		
Bore/stroke, mm/mm	110/125		
Compression ratio	16 ± 1		17 ± 1
Displacement, l	7,12		
Firing order	1 - 5 - 3 - 6 - 2 - 4		
Rated horsepower, kW (h.p.)	96	98	100
Rated speed, rev/min	2100		
Turbocharger	Centrifugal single-stage compressor and radial inflow turbine		
ELECTRICAL EQUIPMENT			
Rated voltage, V:			
• tractor electrical system	12		
• engine starting-system	24		
Generator	963.3701, 14B, 1000 BТ		
TRANSMISSION OF POWER			
Clutch	Friction, dry, double disk, spring loaded		
Gearbox (GB)	Step-wise. Four forward ranges and two reverse ranges. Four gears per each range. Gear shifting within each range is carried out by synchronizers		
Rear axle	With main drive – a pair of bevel gears with spiral tooth, differential, final drives – a pair of spur gears and planetary final drives		

FRONT DRIVING AXLE (FDA)	
FDA	With planetary-cylindrical final drives; with main drive –a pair of bevel gears with spiral tooth; self-locking differential
FDA drive	Installed in gearbox parallel-shaft reducer and friction electro-hydraulically controlled coupling, cardan shaft
FDA control	It has three operation modes: 1) “Engaged”; 2) “Automatically engaged”; 3) “Positively engaged”. Provides FDA switch when tractor brakes using service brakes
BODY, RUNNING GEAR	
Body	Semi-frame
Running gear	Front and rear traction wheels with pneumatic low-pressure tires. Front wheels are steered
Tires:	
• Front wheels	14,9R24 or 420/70R24
• Rear wheels	18,4R38 or 16.9R38
Steering system	Hydrostatic power steering with dosing pump of gerotor type
Steering wheel	Adjustable. From 25° up to 40° on slope angle and within 100 mm in height
Brakes	Disk, dry
Pneumatic drive of trailer brakes control	Single-wire, interlocked with tractor service brakes control
CAB	
Type	With safety rigid frame, vibration-proof, thermo-insulated, with heating system, air ventilation and filtration, with suspended and height-weight-adjustable operator's
REAR POWER TAKE-OFF	
Drive	Independent, two-speed and synchronized
PTO shaft speed, rev/min:	
• Independent I	540
• Independent II	1000
• Synchronized, rev./meter of travel distance	4,36
FRONT POWER TAKE-OFF	
Drive	Independent
PTO shaft speed, rev/min:	1000 (at 1845 rev/min of diesel shaft)

INDEX OF GROUPS, SUBGROUPS, ASSEMBLY UNITS AND PARTS OF THE CATALOGUE

Group	Subgroup	Fig. No	Description	Page
11	Fuel system			12
	1108	11.1	Fuel delivery control (reverse)	12
	1108	11.2	Fuel delivery control	16
12	Exhaust system			20
	1205	12.1	Muffler	20
13	Cooling system			22
	1301	13.1	Water radiator	22
	1301	13.2	Water radiator (for tractor "BELARUS-1221.3/1221B.3")	26
	1317	13.3	Cooler installation (for tractor "BELARUS-1221.3/1221B.3")	30
16	Clutch			32
	1601	16.1	Clutch installation 260-1005009	34
	1601	16.2	Clutch housing	34
		16.3	Clutch housing	36
	1602	16.4	Clutch control ("BELARUS-1221/1221.2/1221.3")	40
	1602	16.5	Clutch control ("BELARUS-1221B/1221B.2")	42
	1602	16.6	Hydraulic booster	44
	1602	16.7	Operating cylinder	46
1602	16.8	Main cylinder (on reverse)	48	
17	Gearbox			50
	1701	17.1	Gearbox	50
	1701	17.2	Gearbox. Primary shaft	52
	1701	17.3	Gearbox. Main shaft	54
	1701	17.4	Gearbox. Layshaft	56
	1701	17.5	Shaft of low gears	58
	1702	17.6	Gearbox control mechanism	62
	1701	17.7	Gearbox (GB 24x12)	66
	1701	17.8	Gearbox. Primary shaft (GB 12x24)	68
	1701	17.9	Gearbox. Layshaft (GB 24x12)	70
	1701	17.10	Gearbox. Shaft of low gears and reverse (GB 24x12)	72
	1701	17.11	Gearbox. Gears block shaft (GB 24x12)	76
	1701	17.12	Gearbox. Main shaft (GB 24x12)	78
	1702	17.13	Gearbox control mechanism (GB 24x12)	80
	1704	17.14	Pumps drive	86
	H11-25	17.15	Oil gear pump	88
	1716	17.16	Filter	90
1737	17.17	Filter-distributor	92	
18	Front axle drive			94
	1802	18.1	Front axle drive	94
22	Cardan drive			98
	2203	22.1	Cardan drive	98
	2210	22.2	Guard	100
23	Front driving axle			102
	2300	23.1	Front driving axle	102
	2308	23.2	Gear	106
	2302	23.3	Differential	108
	2308	23.4	Wheel-hub drive	110
24	Rear axle			114
	2401, 2403, 2407	24.1	Rear axle. Differential. Final drives	114
	2401	24.2	Final drive (lubrication)	122
	2409	24.3	Differential lock mechanism	124
	2409	24.4	Differential lock mechanism of "wet" type	126

Group	Subgroup	Fig. No	Description	Page
27	Hitch			128
	2707	27.1	Hitch (variants of configuration)	128
		27.2		
27.3				
28	Frame			134
	2801	28.1	Assembled semi-frame	134
30	Front axle			136
	3003	30.1	Steering links	136
31	Wheels and hubs			138
	3101	31.1	Front driving wheels	138
	3104	31.2	Rear wheels hubs. Rear driving wheels	140
34	Steering system			142
	3401	34.1	Steering column	142
	3401	34.2	Steering column (reverse)	144
	3407	34.3	Hydrostatic power steering	146
	3407	34.4a 34.4b	Hydrostatic power steering (reverse)	150
	3407	34.5	Hydraulic tank	156
35	Brakes			158
	3502, 3503	35.1	Brakes. Brakes control	158
	3502	35.2	Brakes. (variant of configuration)	160
	3502	35.3	"Wet" brakes	162
	3503	35.4	"Wet" brakes control	164
	3503	35.4a	Brakes control ("BELARUS-1221B/1221B.2")	166
	3504, 3507	35.5	Parking brake. Parking brake control	168
	3504, 3507	35.6	Parking brake. Parking brake control (for "wet" brakes)	172
	3506	35.7	Pipelines and fittings of the single-wire pneumatic drive of the trailer brakes	176
	3506	35.8	Pipelines and fittings of the double-wire pneumatic drive of the trailer brakes	178
	3513	35.9	Air receiver	180
	3514	35.10	Break valve	182
37	Electrical equipment			184
	3700	37.1	Electrical equipment of engine	184
	3700	37.2	Electrical equipment of transmission	188
	3700	37.3	Electrical equipment of cabin. Working lamps and rear lights.	190
	3701	37.4	Generator	194
	3703	37.5	Accumulator batteries installation ("BELARUS-1221/1221.2/1221.3")	198
	3703	37.6	Accumulator batteries installation ("BELARUS-1221B/1221B.2")	200
	3712	37.8	Front light	204
	3714	37.9	Dome lamp	206
	3716	37.10	Rear light	208
	3717	37.11	Number plate light	210
38	Dashboard			212
	3805	38.1	Base, instruments	212
	3805	38.2	Sidewall, cover	216
39	Tools and accessories			218
	3901	39.1	Operator's tools	218
	3912	39.2	First aid kit	220
	3919	39.3	Tool box	222
42	Power take-off			224
	4202	42.1	Rear power take-off shaft	224
	4209	42.2	Front power take-off shaft	228
	4209	42.3	Front power take-off shaft. Reducer	230

Group	Subgroup	Fig. No	Description	Page
	4211	42.4	Power pulley	234
	4216	42.5	Rear power take-off shaft control	236
	4216	42.6	Front power take-off shaft control ("BELARUS-1221B/1221B.2")	242
	4216	42.7	Front power take-off shaft control ("BELARUS-1221/1221.2/1221.3")	244
	4235	42.8	Ballast	246
46	Remote-cylinder hydraulic system			248
	4604	46.1	Pump drive	248
	4605	46.2	Hitch with hydraulic lift	250
	4605	46.3	Front hitch	254
	4605	46.4	Bracket	256
	4605	46.5	Link (upper)	258
	4605	46.6	Drop link	260
	4607	46.7a 46.7b 46.7c 46.7d	Hydraulic units and fittings	262
	ПП-70	46.8	Hydraulic distributor ПП-70	276
	P-80	46.9	Hydraulic distributor P-80	278
	4607	46.10	Hydraulic distributor control (P-80, ПП-70)	282
	4608	46.11	Hydraulic system body and filter	284
	M036.50Б	46.12	Fast coupling	286
	4625	46.13	Cylinder of hydraulic lift	288
	4625	46.14	Distributor of hydraulic lift	290
4635	46.15 46.16	Hydraulic lift control	292	
52	Windscreen wipers			298
	192.000	52.1	Front windshield wiper	298
	5205	52.2	Rear screen wiper	300
67	Tractor cab			302
	6700	67.1 67.2	Tractor cab	302
	6700	67.3	Panels	310
	6708	67.4	Cab doors	312
68	Operator's seat			314
	6800	68.1 68.2	Operator's seat	314
	6801	68.3	Seat suspension	320
	6800	68.4	Additional seat	324
	6807	68.5	Reverse mechanism 80B-6807000 (For tractors BELARUS-1221B/1221B.2/1221B.3)	326
81	Heater			328
	8101	81.1	Heater installation	328
82	Cab accessories			332
	8201	82.1	Inner mirror	332
	8201	82.2	Outside mirror	334
	8204	82.3	Sun visor	336
84	Hood and fenders			
	8400	84.1 84.2	Facing (for tractor "BELARUS – 1221.2/1221B.2/1221.3/1221B.3")	338
	8400	84.3	Facing (for tractor "BELARUS 1221/1221B")	342
	8403	84.4	Front fenders	344
	8405	84.5	Step	346
FDA (front driving axle) control , DL (differential lock) control, PTO (power take-off) control, hitch and reducer control (electricals)				348
87	8700	87.1	FDA (front driving axle) control and DL(differential lock) of rear axle control	348

Group	Subgroup	Fig. No	Description	Page
	8700	87.2	FDA (front driving axle) control, DL(differential lock) of rear axle control and front PTO (power take-off)control	350
	8700	87.3	FDA control, DL of rear axle control, rear PTO and reducer control	352
	8700	87.4	Rear hitch control	356

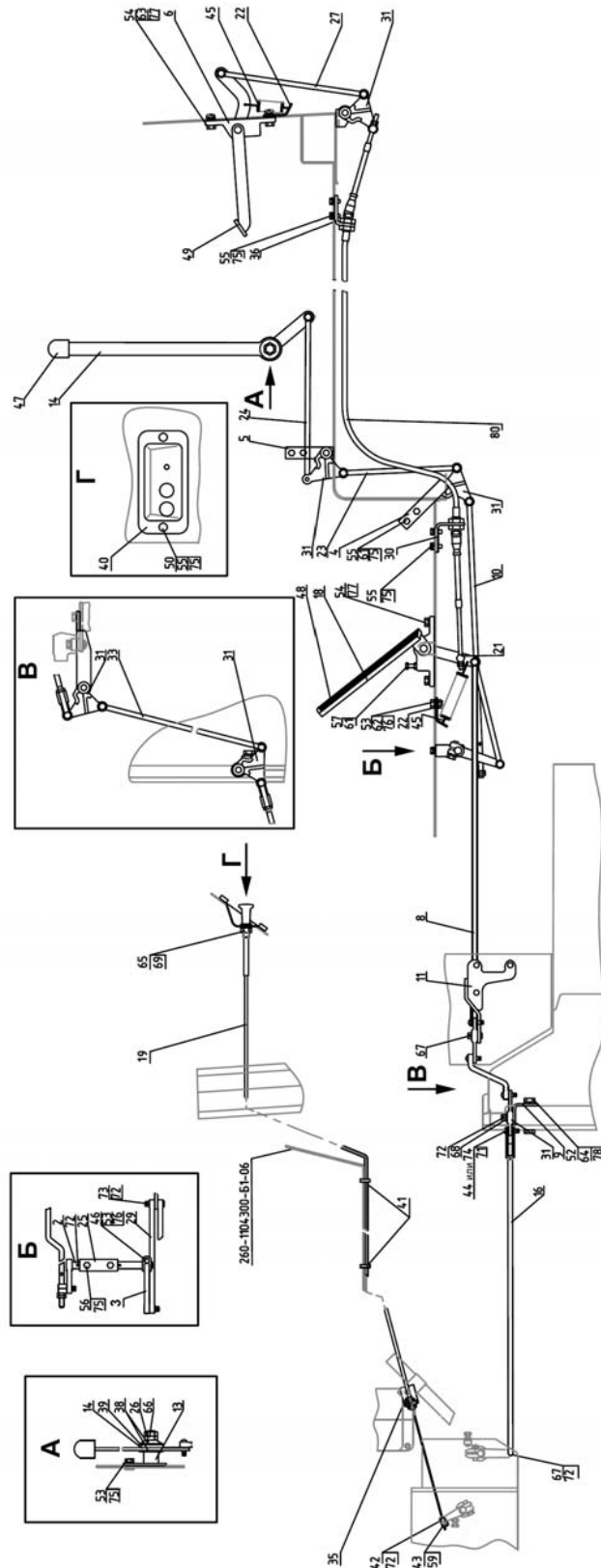


Fig. 11.1. Fuel delivery control (reverse)

**Group 11. Fuel system
Subgroup 1108. Fuel delivery control (reverse)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
11.1	2	80B-1108360	1	Shaft
	3	80B-1108365	1	Lever
	4	80B-1108370	1	Bracket
	5	80B-1108380	1	Bracket
	6	80B-1108390	1	Pedal
	8	80B-1108525-01	1	Rod
	9	800-1108530-A	1	Bracket
	10	80B-1108535	1	Rod
	11	80B-1108545	1	Bracket
	13	1221-1108105	1	Bracket
	14	1221-1108350	1	Handle
	16	1221-1108640 or 1221-1108740	1	Rod
	18	1521-1108510	1	Pedal
	19	80-1108630-A-02	1	Rope
	21	80B-1108317	2	Lug
	22	80B-1108341	2	Plate
	23	80B-1108343	1	Rod
	24	80B-1108344	1	Rod
	25	80B-1108346	1	Bracket
	26	80B-1108347	1	Disk spring
	27	80B-1108394	1	Rod
	29	80B-1108503	1	Rod
	30	80B-1108504-01	1	Bracket
	31	80B-1108506	5	Lever
	33	1220-1108344-A	1	Rod
	35	2522-1108026	1	Bracket
	36	1221-1108507	1	Bracket
	38	80-1108028	2	Washer
	39	80-1108178	1	Friction washer
	40	80-1024211	1	Shield
	41	80-3723045	2	Collar
	42	80-1108317	1	Lug
	43	70-1310441	1	Lock
	44	70-1601109-01	11	Pin
	45	70-4803019	2	Spring
	46	50-1108044	1	Key
	47	A13.11.000	1	Handle
	48	A13.36.001	1	Hood
	49	A13.38.002	1	Lining
	50	A30.04.017	2	Cap
	52	M12x75	1	Bolt
	53	M8x25	4	Bolt
	54	M10x25	4	Bolt
	55	M6x12	6	Bolt
	56	M6x20	6	Bolt
	57	M6x30	1	Bolt
59	BM4x10	1	Screw	
61	M6	9	Nut	
62	M8	3	Nut	
63	M10	2	Nut	
64	M12	1	Nut	
65	M12x1,25	1	Nut	
66	M14x1,5	2	Nut	

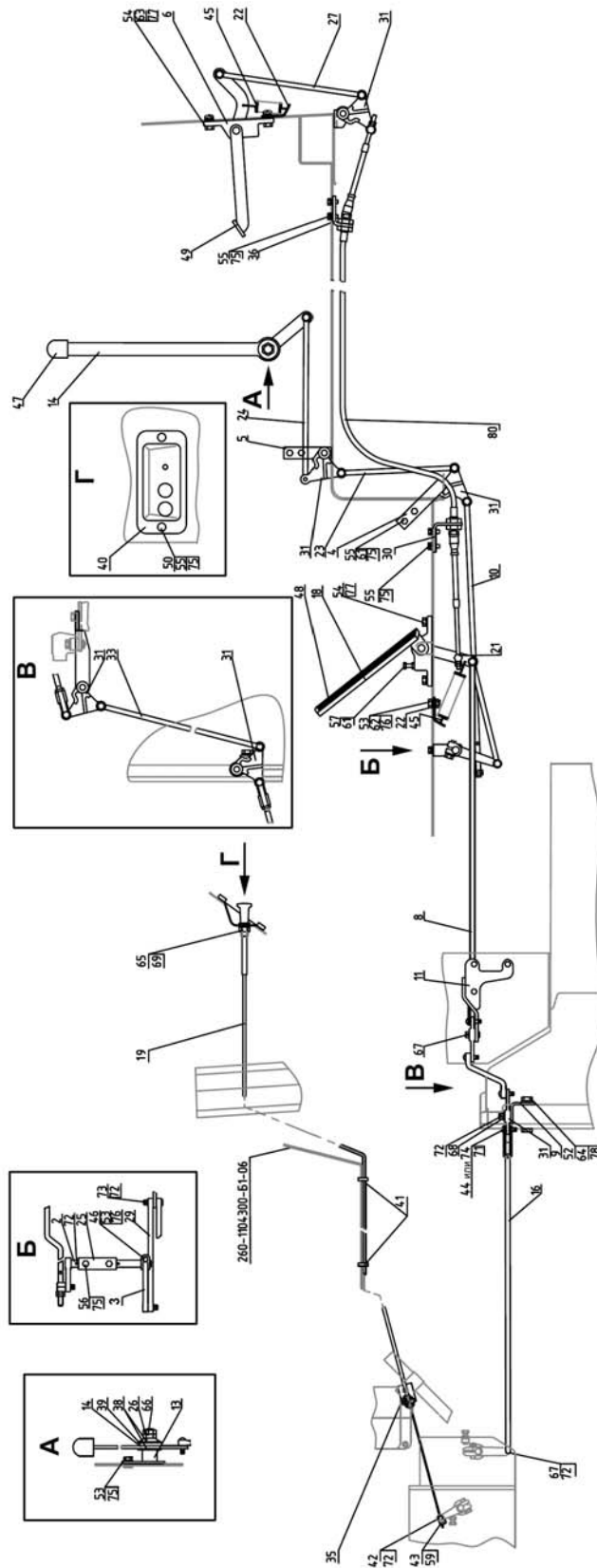


Fig. 11.1. Fuel delivery control (reverse)

Group 11. Fuel system
Subgroup 1108. Fuel delivery control (reverse)

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
11.1	67	ШЧ 8	4	Washer
	68	ШЧ 10	1	Washer
	69	ШЧ 12	1	Washer
	71	2x12	11	Cotter pin
	72	3,2x18	14	Cotter pin
	73	8x30	1	Pin
	74	6x22	11	Pin
	75	ШП 6	10	Washer
	76	ШП 8	3	Washer
	77	ШП 10	4	Washer
	78	ШП 12	1	Washer
	80	80B-1108300-A-02	1	Rope

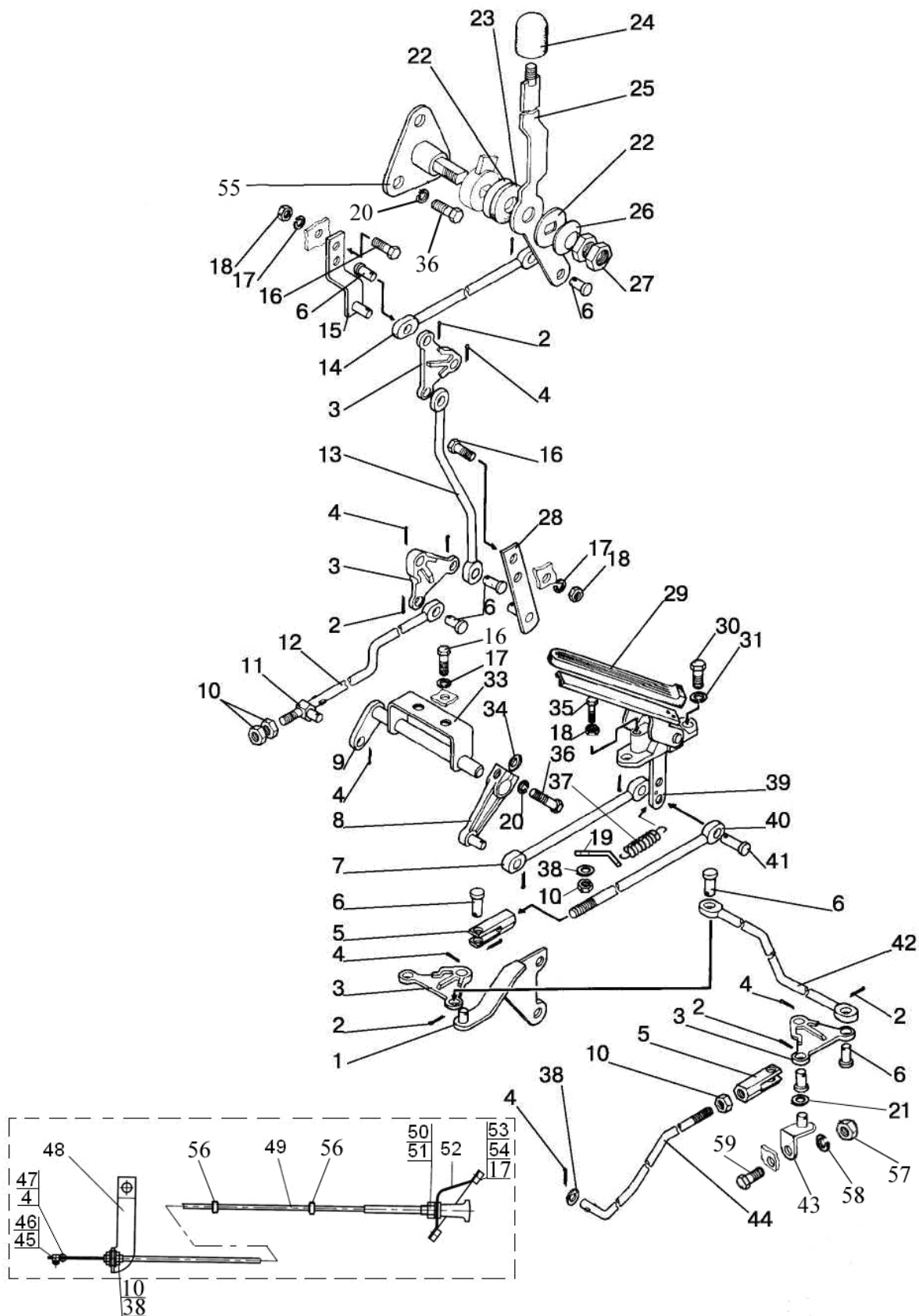


Fig.11.2. Fuel delivery control

**Group 11. Fuel system
Subgroup 1108. Fuel delivery control**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
11.2	1	80B-1108545	1	Bracket
	2	2x12.019	9	Cotter pin ГOCT ¹ 397-79
	3	80B-1108506	4	Lever
	4	3,2x18.019	11	Cotter pin ГOCT 397-79
	5	80B-1108542	2	Rod pin
	6	70-1601109-01	9	Pin
	7	80B-1108503	1	Rod
	8	80B-1108365	1	Lever
	9	80B-1108360	1	Shaft
	10	M8-6H.6.019	5	Nut ГOCT 5915-70
	11	70-1108317	1	Lug
	12	80B-1108537	1	Rod
	13	80B-1108343	1	Rod
	14	80B-1108344	1	Rod
	15	80B-1108380	1	Bracket
	16	M6-6gx20.88.35.019	6	Bolt ГOCT 7798-70
	17	6T	8	Washer O ^C T ² 37.001.115-75
	18	M6-6H.6.019	5	Nut ГOCT 5915-70
	19	80B-1108341	1	Plate
	20	8T	5	Washer O ^C T 37.001.115-75
	21	C 10.01.019	1	Washer ГOCT 11371-78
	22	80-1108028	2	Washer
	23	80-1108178	1	Friction washer
	24	A13.11.000	1	Handle
	25	1221-1108350	1	Handle
	26	80B-1108347	1	Disk spring
	27	M14x1,5-6H.6.019	2	Nut ГOCT 5915-70
	28	80B-1108370	1	Bracket
	29	A13.36.001	1	Hood
	30	M10-6gx25.88.35.019	2	Bolt ГOCT 7796-70
	31	10 OT	2	Washer O ^C T 37.001.115-75
	33	80B-1108346	1	Bracket
	34	50-1108044	1	Key
	35	M6-6gx30.88.35.019	1	Bolt ГOCT 7798-70
	36	M8-6gx25.88.35.019	4	Bolt ГOCT 7796-70
	37	70-4803019	1	Spring
	38	C 8.01.019	4	Washer ГOCT 11371-78
	39	80B-1108510	1	Pedal
	40	80B-1108526-01	1	Rod
	41	8x30	1	Pin O ^C T 37.001.163-75
	42	1220-1108344-A	1	Rod
	43	800-1108530-A	1	Bracket
	44	1221-1108641* (1221-1108741**)	1	Rod
	45	B.M4-6gx10.58.019	1	Screw ГOCT 17473-80
	46	70-1310441	1	Lock
	47	80-1108317	1	Lug
	48	2522-1108026	1	Bracket
	49	80-1108630-A-02	1	Rope
	50	M12x1,25-6H.6.019	1	Nut ГOCT 5915-70

* With fuel pipe Motorpal

** With fuel pipe YAZDA

ГOCT – Government Standard (GOST) /State Standard; O^CT – industry-specific standard;

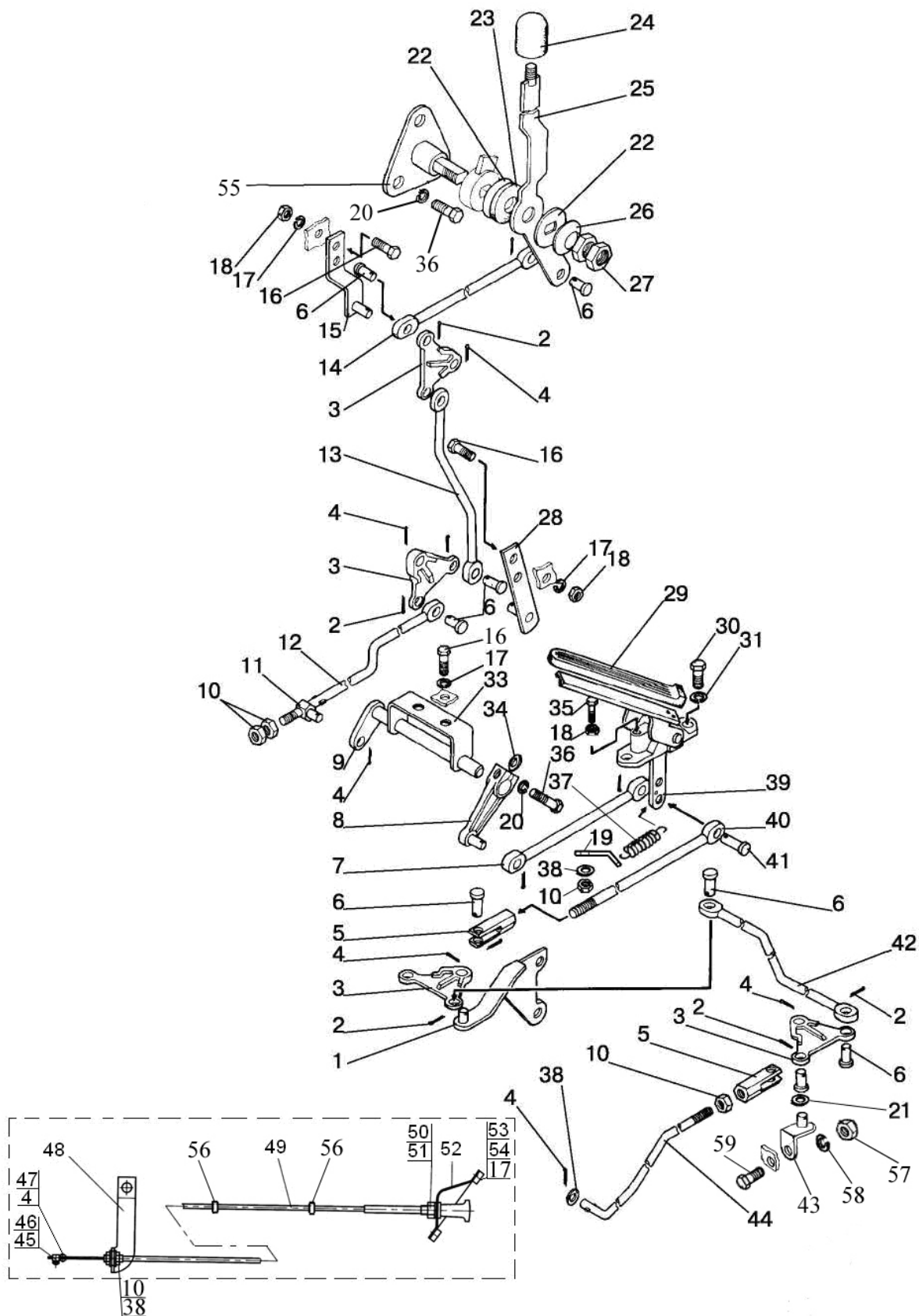


Fig.11.2. Fuel delivery control

Group 11. Fuel system
Subgroup 1108. Fuel delivery control

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
11.2	51	C 12.01.019	1	Washer GOCT 11371-78
	52	80-1024211	1	Shield
	53	A30.04.017	2	Cap
	54	M6-6gx12.88.35.019	2	Bolt GOCT 7798-70
	55	1221-1108105	1	Bracket
	56	80-3723045	2	Collar
	57	M12-6H.6.018	1	Nut GOCT 5915-70
	58	12 OT	1	Washer OCT 37.001-75
	59	M12-6gx75.88.35.019	1	Bolt

GOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

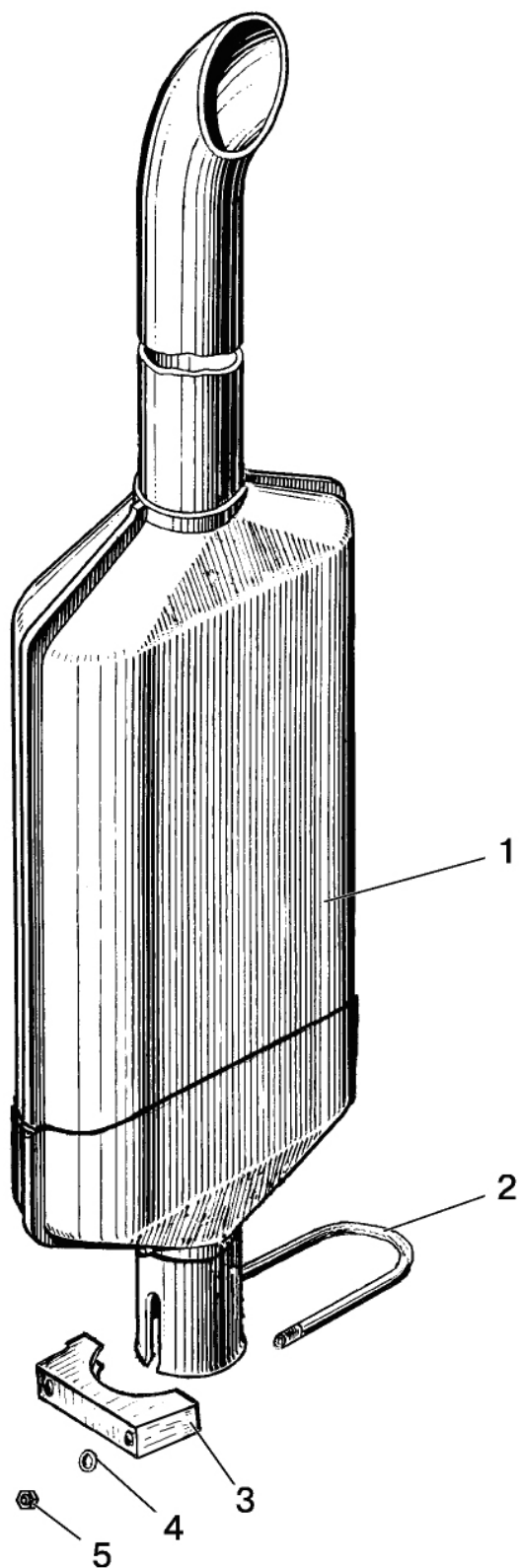


Fig. 12.1. Muffer

Group 12. Exhaust system
Subgroup 1205. Muffler

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
12.1		800-1205015-02	1	Muffler (1-5)
		260-1205130	1	Clamp (2-5)
	1	800-1205015	1	Muffler
	2	800-1205131	1	Clip
	3	800-1205132	1	Clamp
	4	ШЧ 10	2	Washer
	5	80-1205136	2	Nut

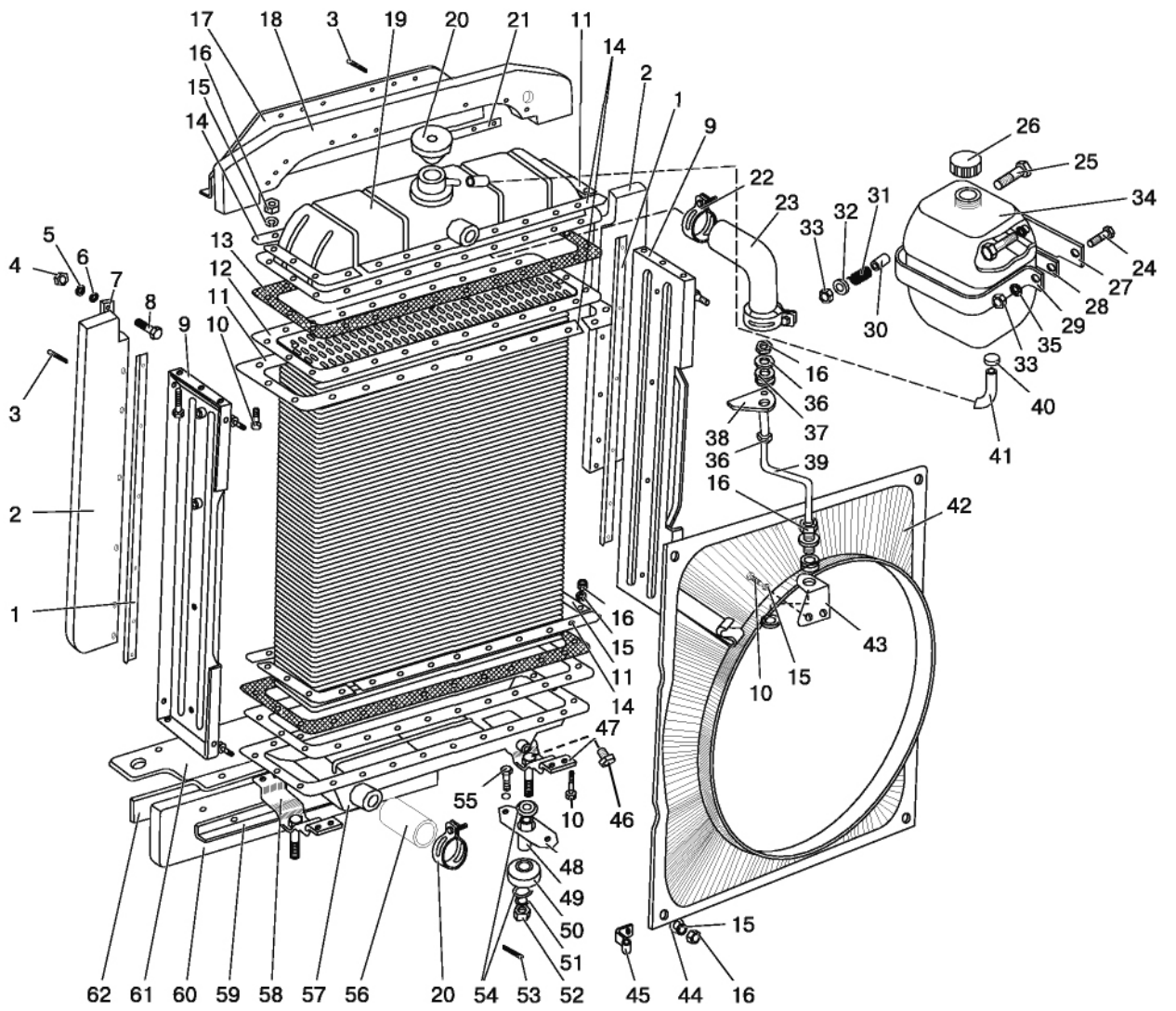


Fig. 13.1. Water radiator

Group 13. Cooling system
Subgroup 1301. Water radiator

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
13.1		1321-1301015	1	Water radiator (9-16, 19, 20, 47, 55, 57, 58)
	1	80B-1301337	2	Strip
	2	1221-1301333	2	Side seal
	3	3,2x25	12	Cotter pin
	4	M8	74	Nut
	5	ШП 8	70	Washer
	6	ШЧ 8	12	Washer
	7	80B-1301332	2	Strip
	8	M8x30	7	Bolt
	9	1321.1301.101-1	2	Radiator baffle
	10	M8x25	56	Bolt
	11	1321.1301.225	8	Elbow plate
	12	1321.1301.020	1	Radiator core
	13	70У.13.01.169	2	Gasket
	14	70У.13.01.256	8	Lining
	15	ШП 8	64	Washer
	16	M8	64	Nut
	17	1220-1301341	1	Bracket
	18	1221-1301346	1	Seal
	19	1321.1301.055-1	1	Upper tank
	20	A21.01.270 -1	1	Plug
	21	80B-1301342	4	Strip
	22	50-70	4	Clamp "Norma"
	23	142-1303010	1	Hose
	24	M6x16	1	Bolt
	25	M6x40	1	Bolt
	26	80П-1311011	1	Plug
	27	1522-1311101	1	Bracket
	28	80-1311004	1	Plate
	29	80-1311002	1	Clamp
	30	80-1311003	1	Bushing
	31	54.06.413	1	Spring
	32	80-1311006	1	Disk
	33	M6	2	Nut
	34	80П-1311010	1	Expansion chamber
	35	ШП 6	1	Washer
	36	ШЧ 6	6	Washer
	37	85-1302071	2	Shock absorber
	38	1220-1302001	1	Bracket
	39	1220-1302003	1	Tension member
	40	12-20	2	Clamp "Norma"
	41	1321-1311008	1	Pipe
	42	1220-1309080	1	Casing
	43	1220-1302002	1	Bracket
	44	ШЧ 8	4	Washer
	45	48-1104016	1	Clip
	46	КГ 1/4".A12.019	1	Plug TY 23.1.506-91
	47	1321.1301.180	1	Right support
	48	70У.13.02.01 6	2	Strip
	49	70У.13.02.01 5	2	Bushing
	50	70У 130201 8	2	Shock absorber
	51	ШП 12	4	Washer
52	M12	2	Nut	

TY – Technical specifications

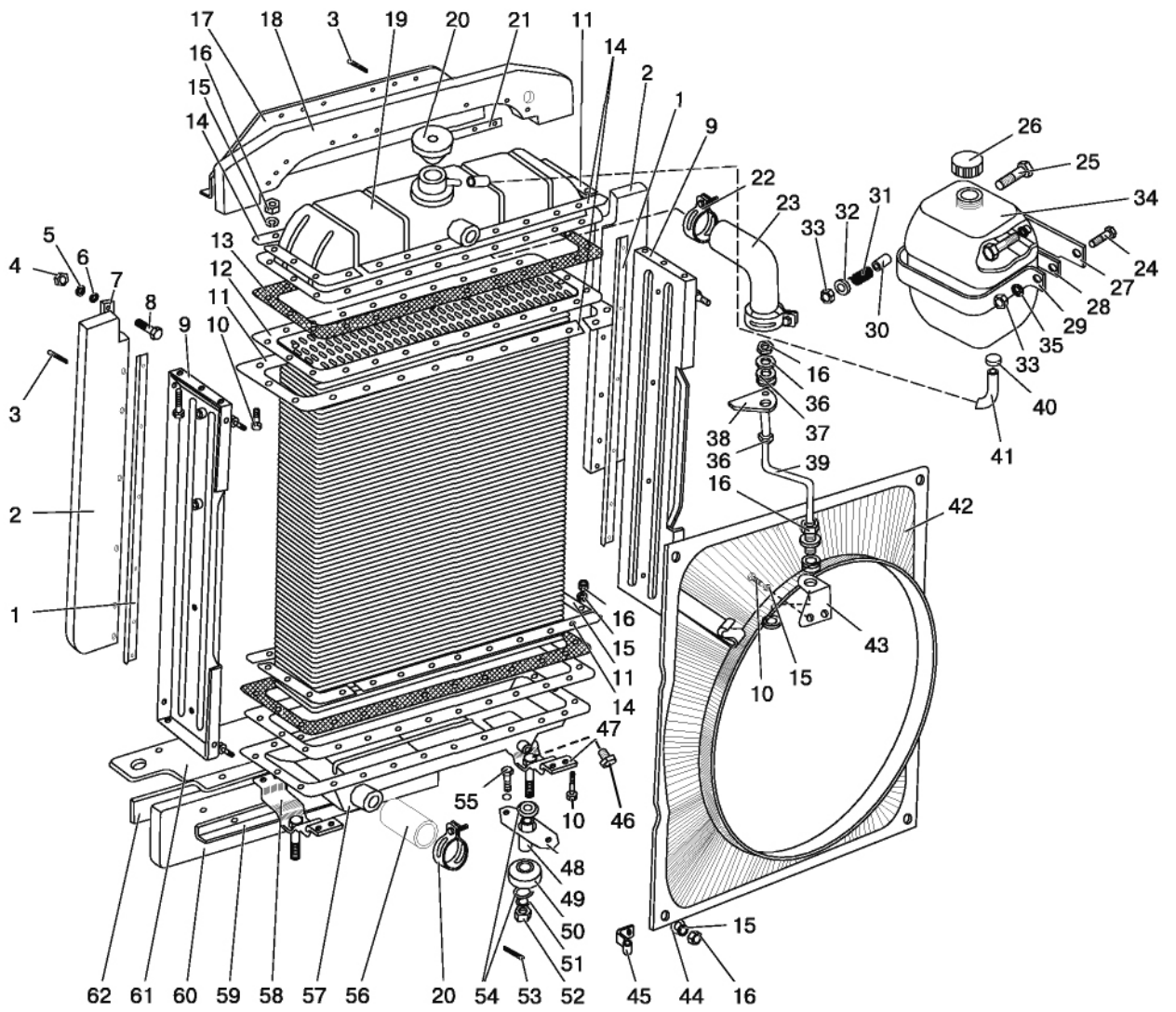


Fig. 13.1. Water radiator

Group 13. Cooling system
Subgroup 1301. Water radiator

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
13.1	53	3,2x20	2	Cotter pin
	54	ШЧ 12	4	Washer
	55	M8x16	8	Bolt
	56	1220-1303004-01	1	Hose
	57	1321.1301.075	1	Lower tank
	58	1321.1301.190	1	Left support
	59	1220-1301371	1	Strip
	60	1220-1301008	1	Seal
	61	70-1301233	1	Seal
	62	1220-1301002	1	Bracket

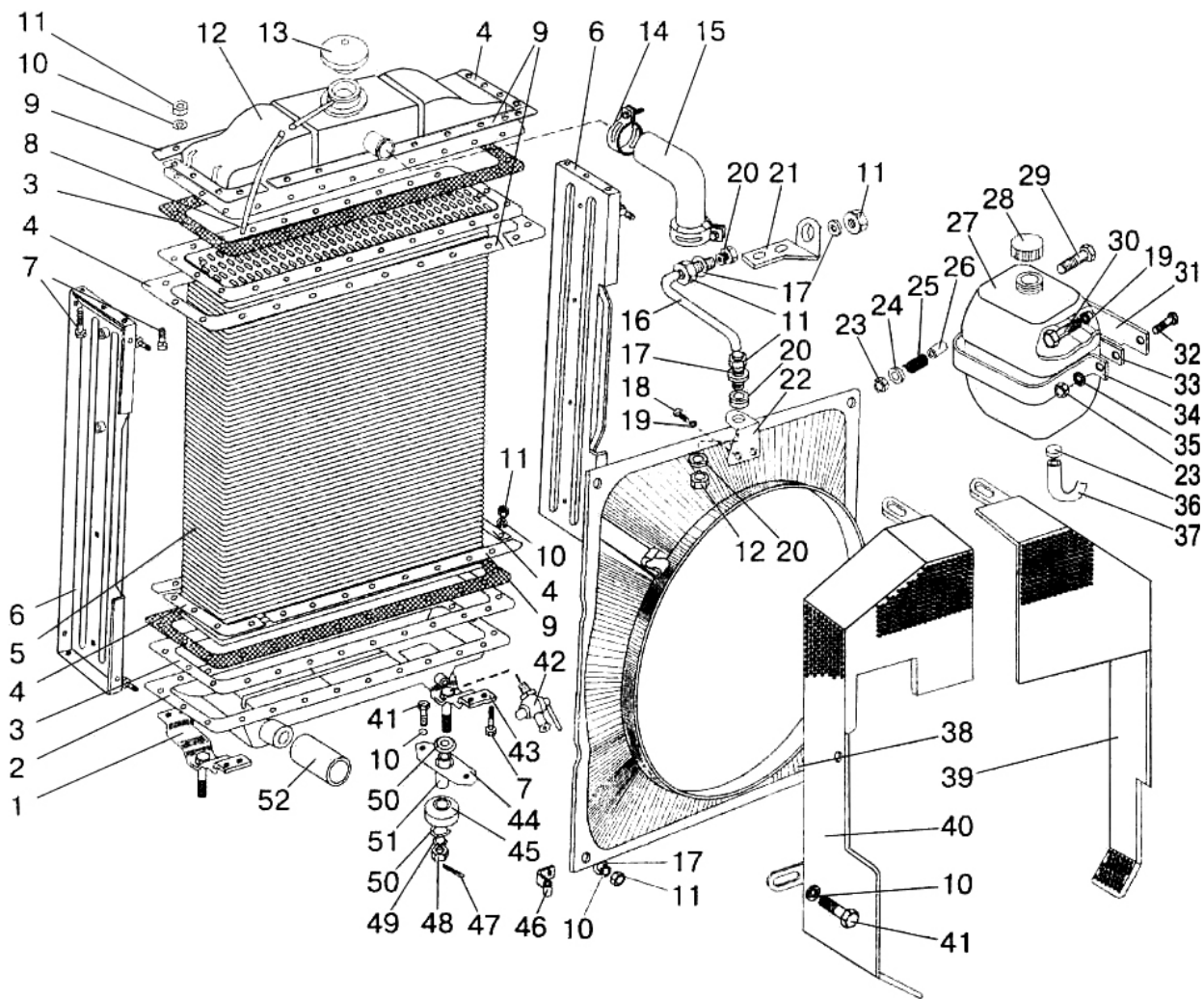


Fig. 13.2 Water radiator (for tractor "BELARUS-1221.3/1221B.3")

**Group 13. Cooling system
Subgroup 1301. Water radiator (for tractor "BELARUS-1221.3/1221B.3")**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
13.2		1520-130.010Б-01	1	Water radiator (1, 2, 4-6, 7, 9, 12, 13, 43-45, 49-51)
		1522-1309100	1	Fan guard (39, 40)
	1	2120-1301300	1	Radiator support
	2	2120-1301200	1	Radiator lower tank
	3	141.13.01.114	2	Gasket
	4	141-1301113	8	Elbow plate
	5	1520.13.01.020-01	1	Radiator core
	6	141.13.01.111	2	Stand
	7	M8x25	72	Bolt
	8	1321-13.11008	1	Steam outlet
	9	141.1301.112	8	Lining
	10	ШП 8	64	Washer
	11	M8	64	Nut
	12	1520-1301100	1	Radiator upper tank
	13	A21.01.27C-1	1	Radiator plug
	14	XC-64	4	Clamp
	15	142-1303010	1	Hose
	16	1520-1302003	1	Tension member
	17	ШЧ 8	4	Washer
	18	M10x18	2	Bolt
	19	ШП 10	2	Washer
	20	85-1302071	2	Shock absorber
	21	1520-1302072	1	Bracket
	22	1220-1302002	1	Bracket
	23	M6	2	Nut
	24	80-1311006	1	Disk
	25	54.06.413	1	Spring
	26	80-1311003	1	Bushing
	27	80П-1311010	1	Expansion chamber
	28	80П-1311011	1	Plug
	29	M6x40	1	Bolt
	30	M10X12	1	Bolt
	31	1522-1311101	1	Bracket
	32	M6x16	1	Bolt
	33	80-1311004	1	Strip
	34	80-1311002	1	Clamp
	35	ШП 6	1	Washer
	36	12-20	2	Clamp "Norma"
	37	70-1301158	1	Pipe
	38	1520-1309080	1	Casing
	39	1522-1309005	1	Right casing
	40	1522-1309010	1	Left casing
	41	M8x16	8	Bolt
	42	Kp2-1305000	1	Cock
	43	2120-1301400	1	Radiator support
	44	70У-1302016-01	2	Strip
	45	70У-1302018-01	2	Shock absorber
	46	48-1104016	1	Clip
47	3,2x20	2	Cotter pin	
48	M12	2	Nut	

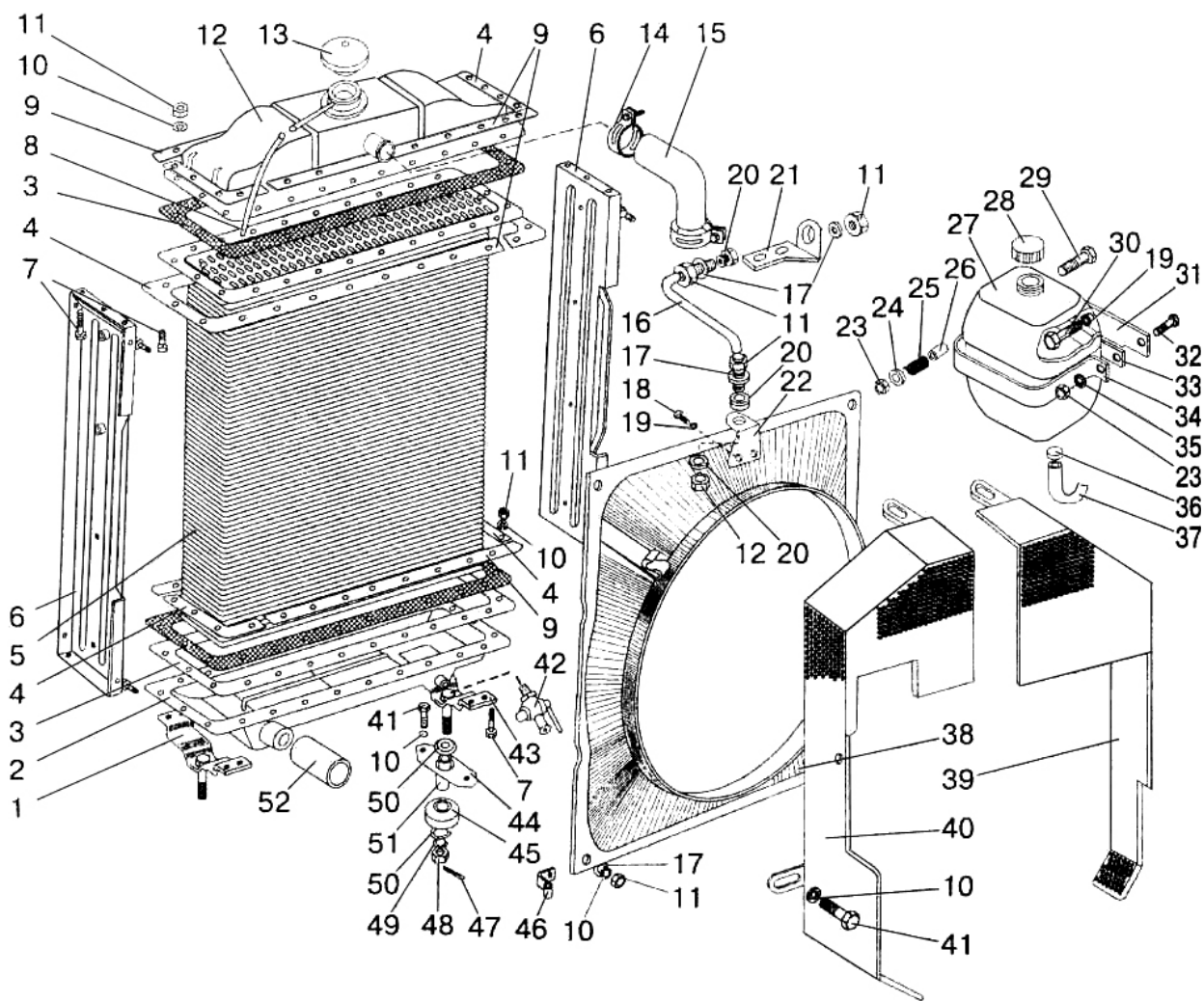


Fig. 13.2 Water radiator (for tractor "BELARUS-1221.3/1221B.3")

Group 13. Cooling system
Subgroup 1301. Water radiator (for tractor "BELARUS-1221.3/1221B.3")

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
13.2	49	ШП 12	4	Washer
	50	ШЧ 12	4	Washer
	51	70У-1302015-01	2	Bushing
	52	1220-1303004-01	1	Hose

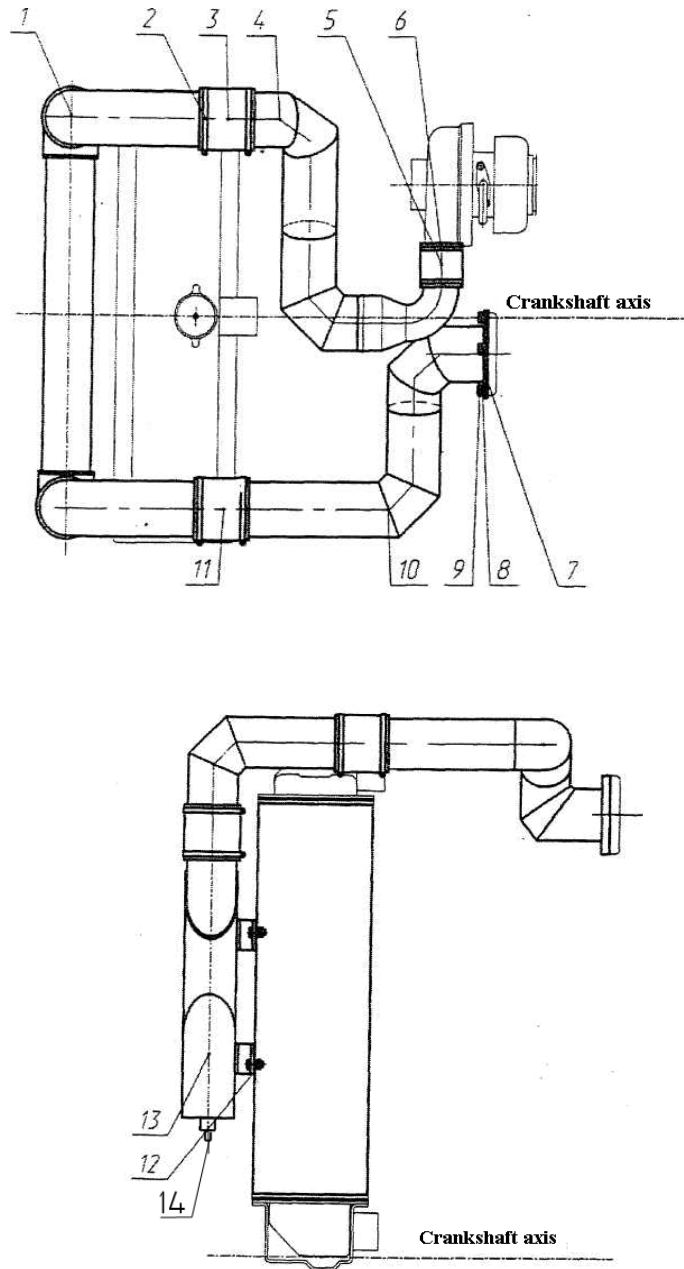


Fig. 13.3 Cooler installation (for tractor "BELARUS-1221.3/1221B.3")

Group 13. Cooling system
Subgroup 1317. Cooler installation (for tractor "BELARUS-1221.3/1221B.3")

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
13.3	1	1523-1317620	2	Air pipeline
	2	GBS 82/25 W2	8	Clamp "Norma"
	3		2	Silicone tube 75x100 red
	4	1523-1317600-A	1	Air pipeline
	5		1	Silicone tube 50x100 red
	6	GBS 61/20 W2	2	Clamp "Norma"
	7	2022-1317631	1	Gasket
	8	8T	7	Washer
	9	M8x16	7	Bolt
	10	1523-1317610-A	1	Air pipeline
	11		2	Silicone tube 75x100 blue
	12	M8	4	Nut
	13	1522-1317100	1	Cooler
	14	KГ 1/4" A 12.019 TY 23.1.506-91	2	Plug

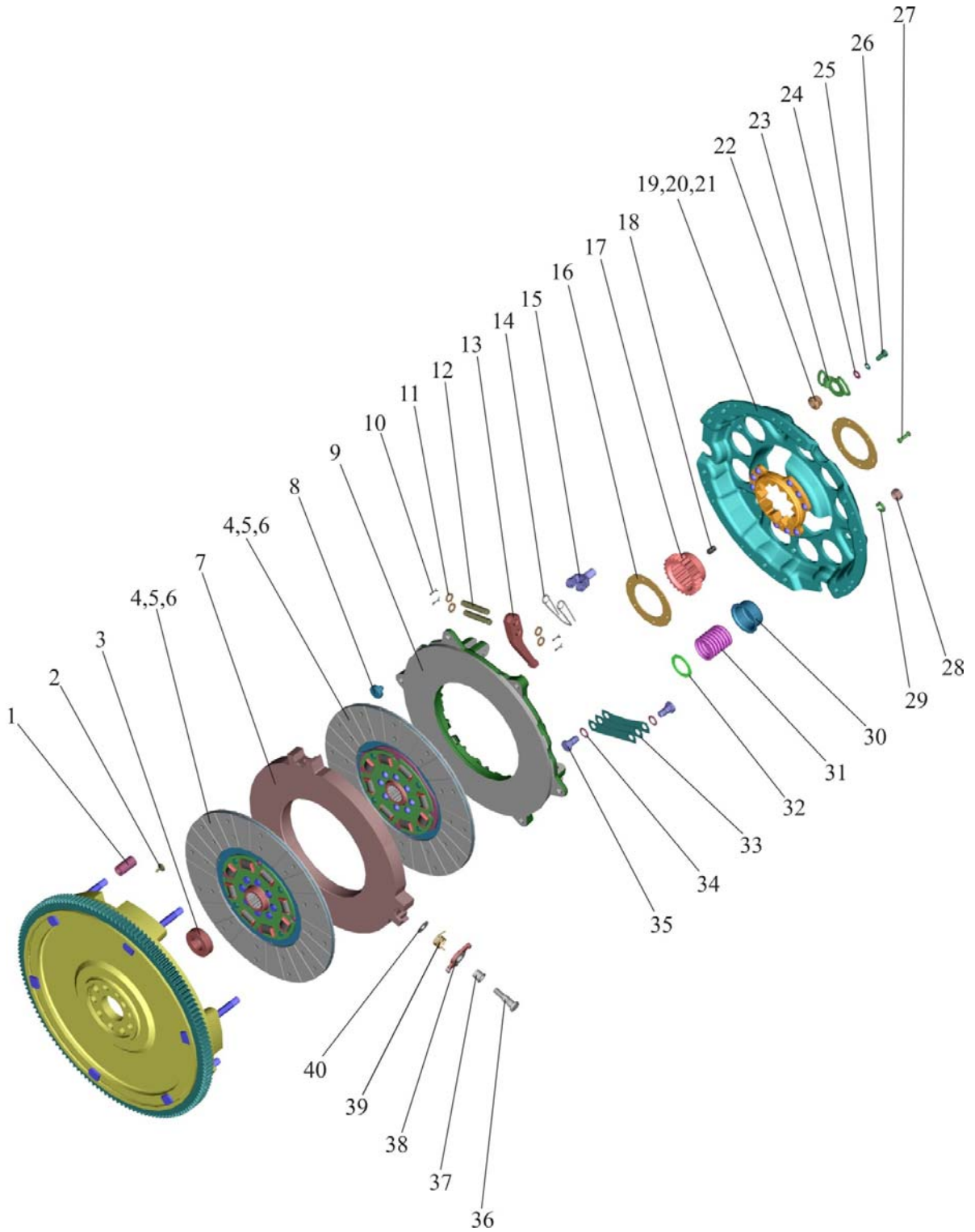


Fig. 16.1. Clutch installation 260-1005009

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
16.1		260-1005009	1	Clutch installation (1-40)
		1520-1601085	1	Middle disk (7, 36-40)
		85-1601090-B	1	Coupling disk (8-35)
		1522-1601120	1	Clutch back plate (16-18, 21, 27)
	1	70-1601074	6	Bushing
	2	142-1601316	3	Slide block
	3	180205K1C17	1	Bearing
	4	85-1601130-01	2	Driven disk (assembled with 5 and 6)
	5	70-1601138-01	2	Friction lining (included in 4)
	6	2-4x8.32	48	Rivet (included in 4) ГОСТ 12642-80
	7	1520-1601092	1	Middle disk
	8	1520-1601123	3	Rest
	9	85-1601093-Б	1	Pressure disk
	10	3,2x18.019	12	Cotter pin ГОСТ 397-79
	11	85-1601108	12	Washer
	12	85-1601096	6	Pin
	13	85-1601094	3	Release lever
	14	85-1601083	3	Spring
	15	85-1601097	3	Fork
	16	1522-1601062	2	Washer
	17	70-1601053	1	Bushing
	18	70-1601091	12	Damper
	19	8x22.01	9	Rivet (included in 21) ГОСТ 10299-80
	20	1522-1601051	1	Hub (included in 21)
	21	1522-1601125	1	Clutch back plate (assembled with 19 и 20)
	22	85-1601109-A	3	Adjusting nut
	23	85-1601086	3	Lock washer
	24	C 8.01.019	6	Washer ГОСТ 11371-78
	25	8 T	6	Washer OCT 37.001.115-75
	26	M8x16	6	Bolt ГОСТ 7796-70
	27	6x30.01	6	Rivet ГОСТ 7796-70
	28	M12x1,25	9	Nut ГОСТ 5915-70
	29	12 OT	9	Washer OCT 37.001.115-75
	30	85-1601072-Б	9	Sleeve
	31	85-1601115	9	Spring
	32	85-1601118-Б	9	Insulating washer
	33	85-1601124	9	Plate
	34	85-1601121	6	Washer
	35	85-1601126	6	Bolt
	36	142-1601306	3	Release lever axis
37	142-1601088	3	Bushing	
38	142-1601087-Б	3	Release lever	
39	142-1601314-Б	3	Spring	
40	142-1601089	3	Lock washer	

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

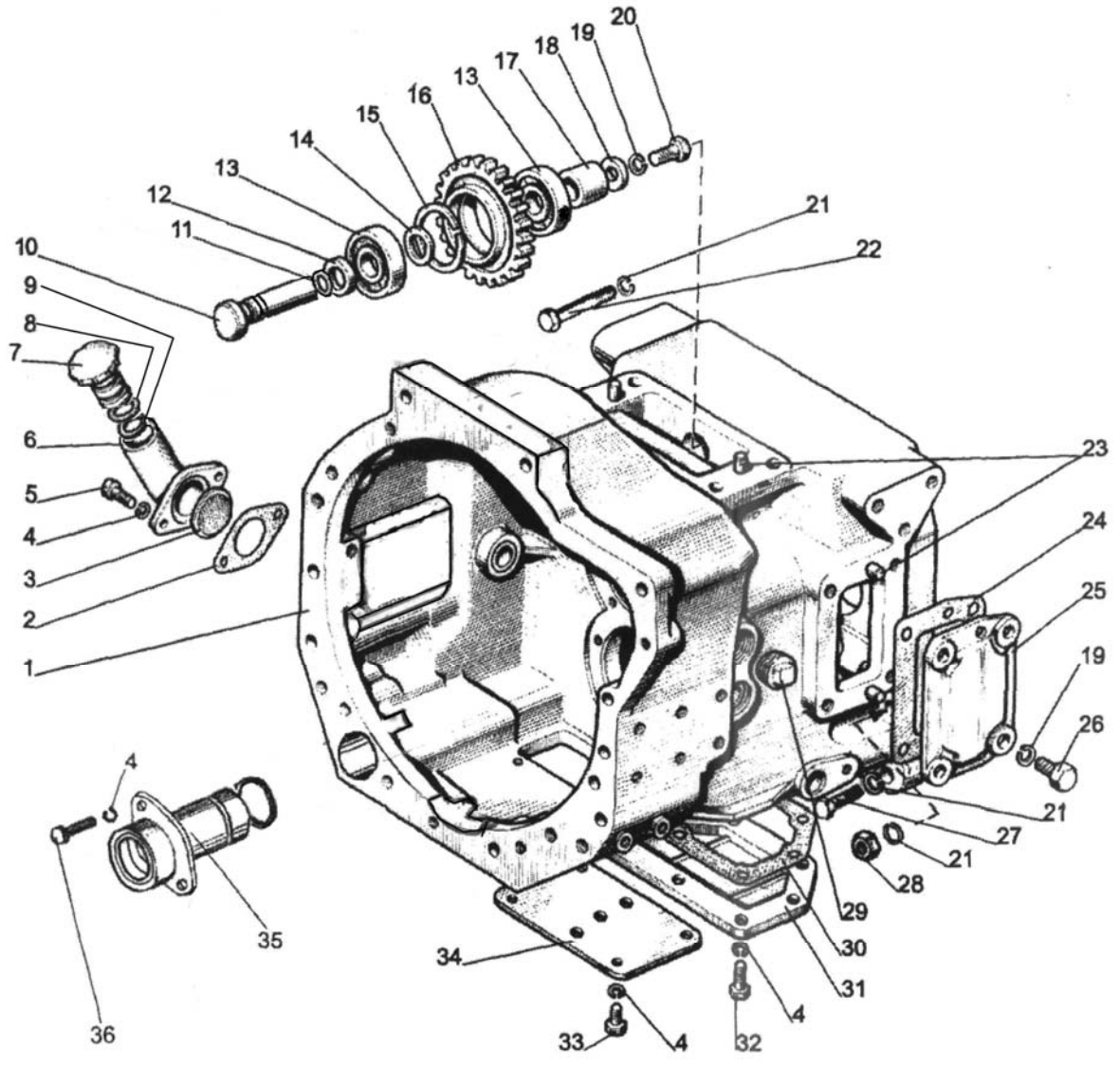
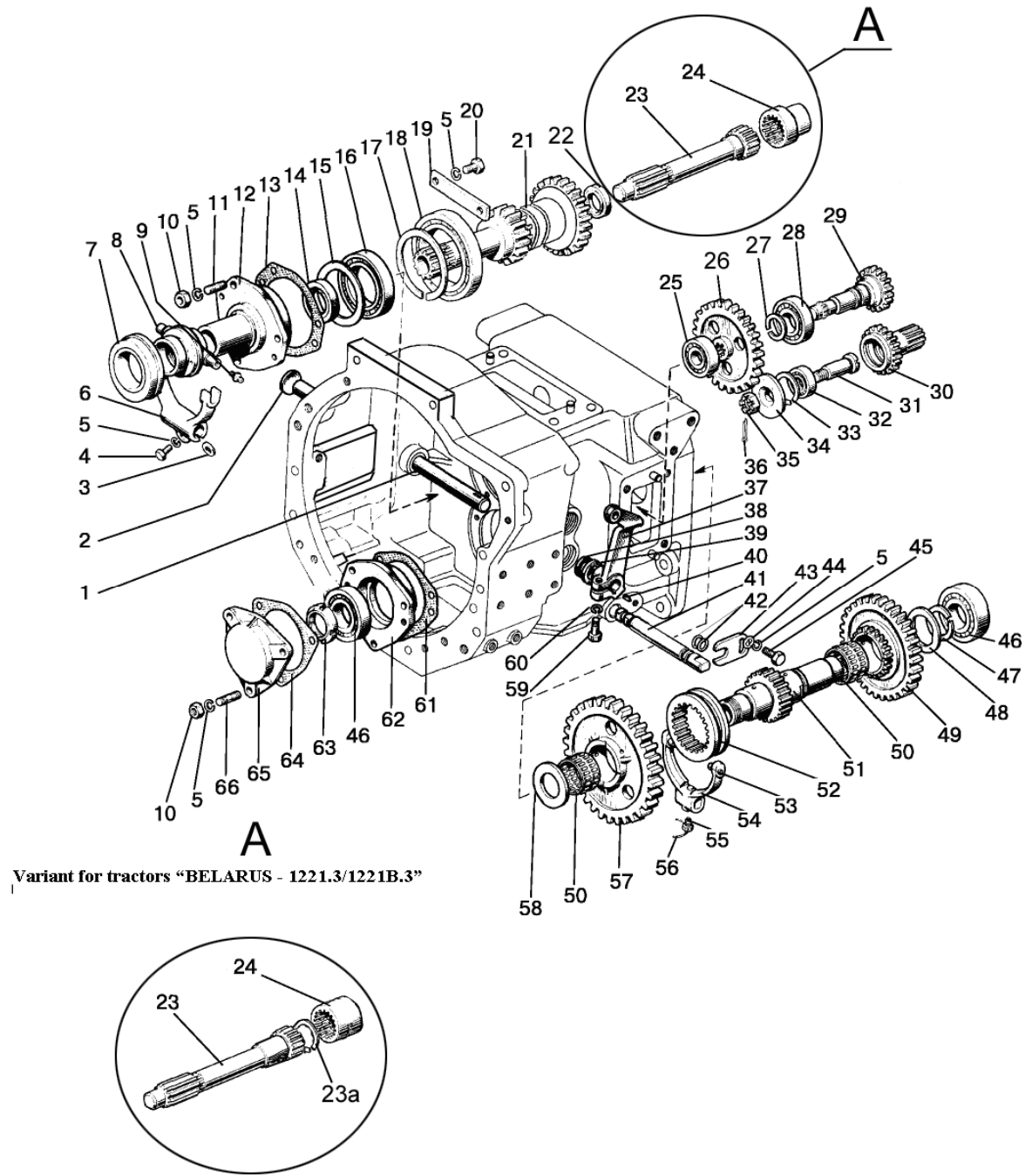


Fig. 16.2. Clutch housing

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
16.2		80-1600010-03	1	Clutch housing (1-20, 23-26, 29-34)
		80-1600010-08*	1	Clutch housing (1-20, 23-26, 29-34)
		70-1601330	1	Gear (13-16)
		240-1002115	1	Neck (6-9)
		A19.01.100	1	Cover (7, 8)
	1	80-1601015	1	Housing
	2	240-1002082-A	1	Gasket
	3	240-1002085	1	Strainer
	4	ШП 8	15	Washer
	5	M8x20	2	Bolt
	6	240-1002088-B	1	Tube
	7	A19.01.001	1	Plug
	8	042-048-30-2-1	1	Ring
	9	A19.01.003	1	Spring ring
	10	80-1601335	1	Axis
	11	020-025-30-1-6	1	Ring
	12	80-1601337	1	Washer
	13	305A	2	Bearing
	14	70-1601333	1	Ring
	15	C62	1	Ring
	16	70-1601331	1	Gear
	17	80-1601336	1	Bushing
	18	80-1601334	1	Thrust washer
	19	ШП 12	5	Washer
	20	M12x35	1	Bolt
	21	ШП 20	6	Washer
	22	70-4605036-03	1	Bolt
	23	ШЦК 10x25	4	Pin
	24	80-1601343	1	Gasket
	25	80-1601342	1	Cover
	26	M12x30	4	Bolt
	27	70-4605036	4	Bolt
	28	M20	1	Nut
	29	ПК КГ 1 1/4"	1	Plug
	30	80-1601314	1	Gasket
	31	80-1601313	1	Cover
32	M8x25	7	Bolt	
33	M8x16	4	Bolt	
34	50-1601341	1	Cover	
35	86-1802015-Б	1	Casing	
36	M8x35	2	Bolt	

* For tractors "BELARUS -1221.3/1221B.3"



Variant for tractors "BELARUS - 1221.3/1221B.3"

Fig. 16.3 Clutch housing

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
16.3		80-1601030-01	1	Release bracket (12, 14)
		80-1601040	1	Sleeve (46-1pcs., 62)
		80-1601050-01	1	Shaft (16-18, 21, 22)
		2022-1601060	1	Bushing (23a, 24*)
		80-1601070	1	Shaft-gear (27-29)
		85-1601150	1	Shaft (1, 37, 40, 58, 59)
		80-1601160	1	Shaft (46-1pcs., 47-49, 50-1pcs., 51)
		80-1601180	1	Gear (30-33)
		50-1601180-A	1	Release (7-9)
		80-1601190	1	Fork (53, 54)
	1	85-1601215	1	Shaft
	2	50-1601022	1	Blind plug
	3	50-1601218	1	Key
	4	M10x30	1	Bolt
	5	ШП 10	10	Washer
	6	85-1601203	1	Fork
	7	986714KC17	1	Thrust bearing
	8	50-1601185-A	1	Release
	9	1.1.Ц9.xp	1	Oiler
	10	M10	6	Nut
	11	M10x3p/6gx25	3	Stud
	12	85-1601172	1	Bracket
	13	80-1601173	1	Gasket
	14	240-1002055	1	Collar
	15	80-1601319	1	Washer
	16	115K5	1	Bearing
	17	C105	1	Ring
	18	76-1000921	1	Bearing
	19	80-1601318	1	Strip
	20	M10x25	2	Bolt
	21	85-1601026	1	Shaft
	22	2.2-38x58-1	1	Collar
	23	80-1601113-01 1222-1601113*	1	Shaft
	23a	C45	1	Ring
	24	80C-1601061 2022-1601061*	1	Bushing
	25	305A	1	Bearing
	26	80-1601357-Б	1	Gear
	27	C35	1	Ring
28	207	1	Bearing	
29	80-1601071-Б	1	Shaft-gear	
30	80-1601182	1	Gear	
31	80-1601181	1	Axis	
32	204A	1	Bearing	
33	C47	1	Ring	
34	80-1601356	1	Thrust washer	
35	70-3003032	1	Nut	
36	3,2x25	1	Cotter pin	
37	80-1601219-Б	1	Lever	
38	80-4608024	1	Ring	

* For tractors "BELARUS-1221.3/1221B.3"

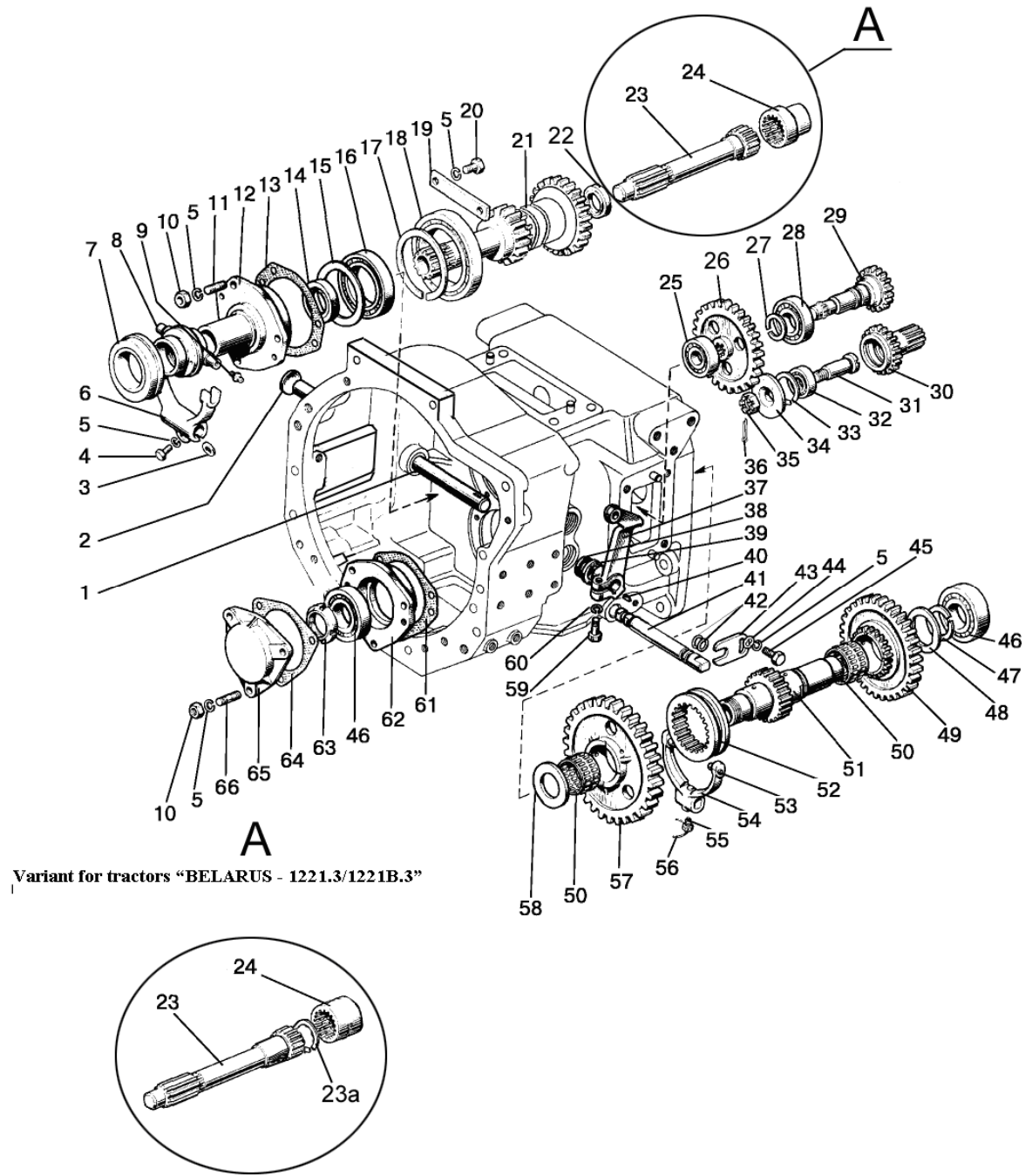


Fig. 16.3 Clutch housing

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

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

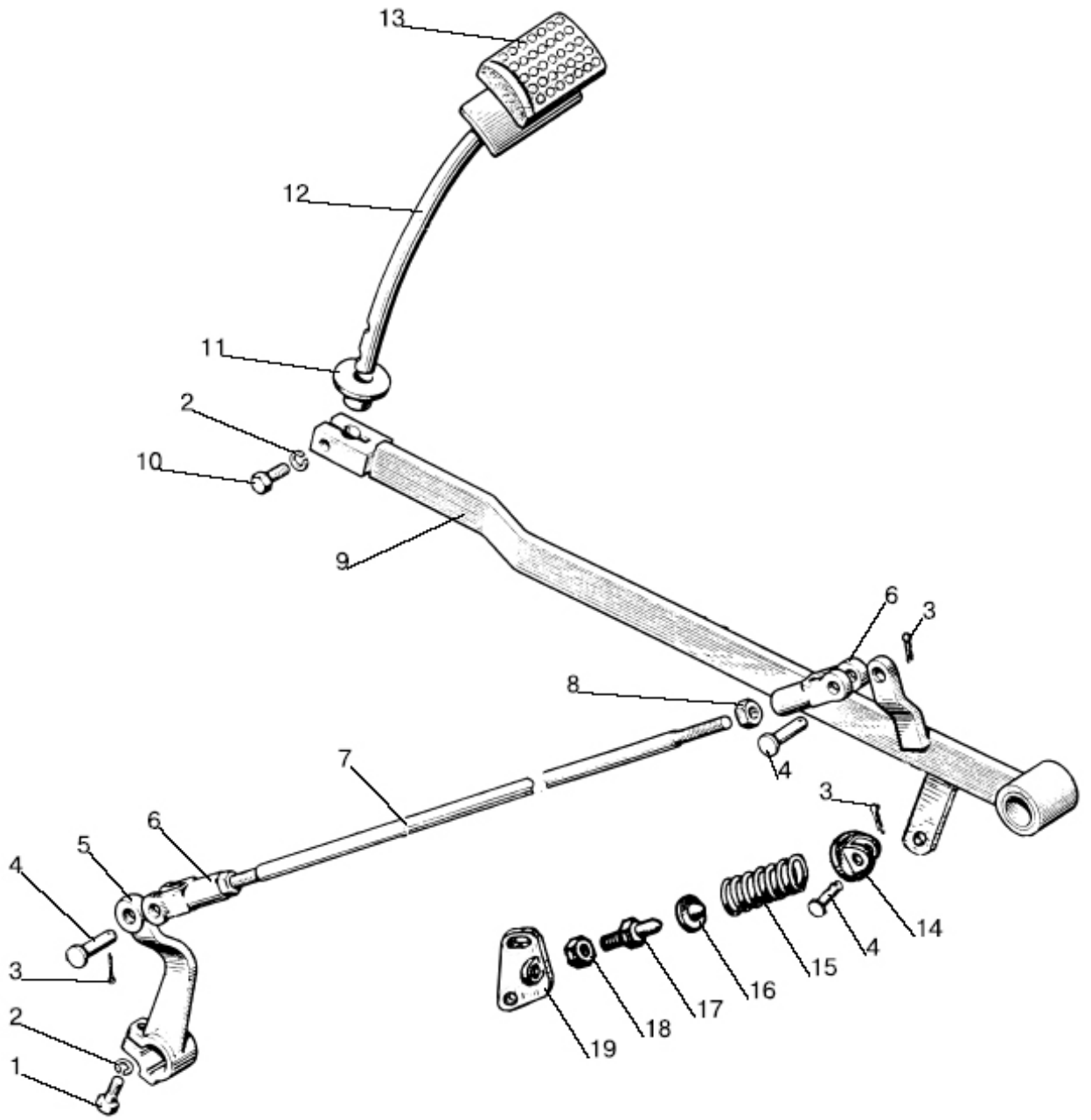


Fig. 16.4. Clutch control ("BELARUS-1221/1221.2/1221.3")

Group 16. Clutch
Subgroup 1602. Clutch control ("BELARUS-1221/1221.2/1221.3")

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

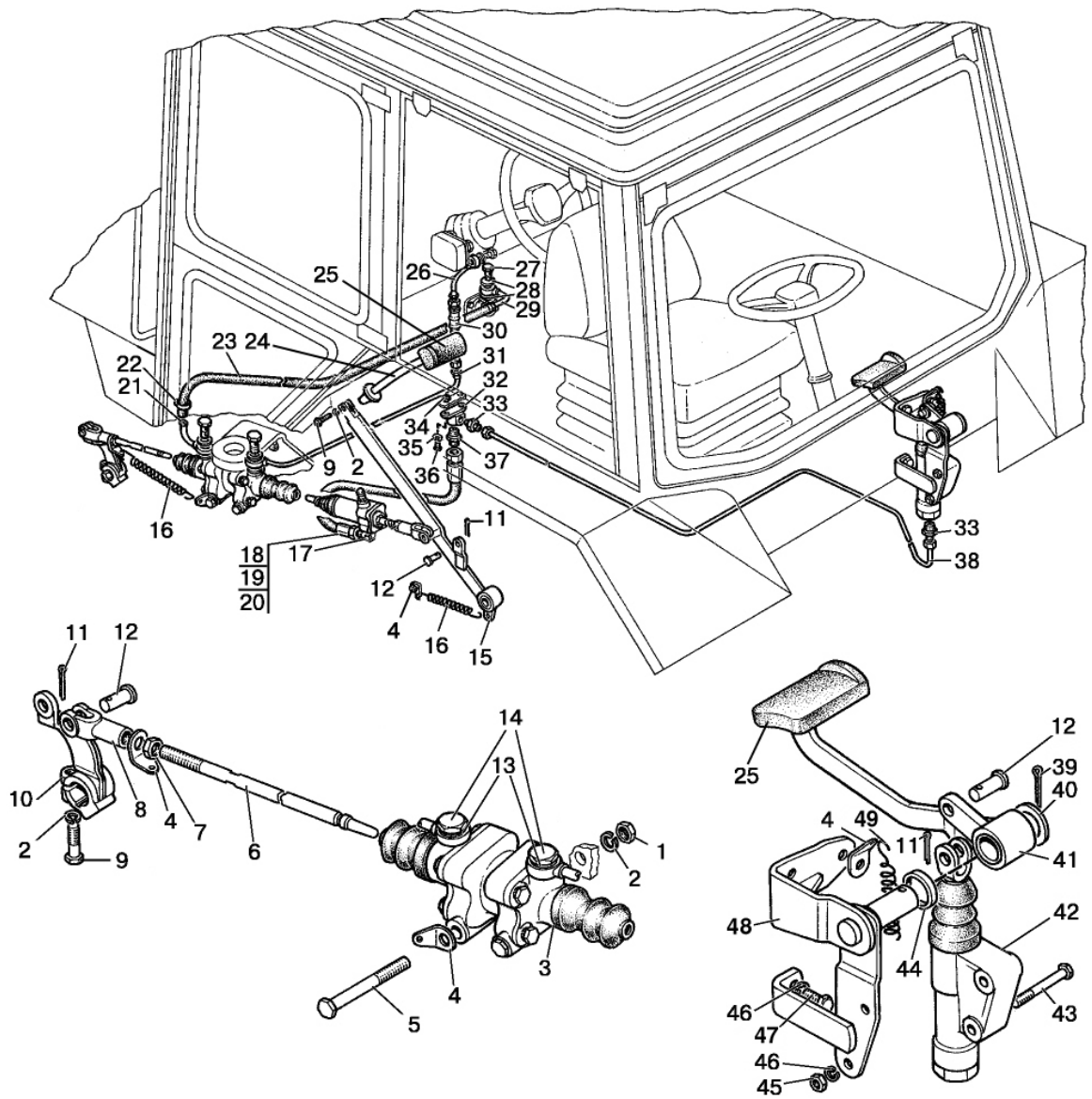


Fig. 16.5. Clutch control ("BELARUS-1221B/1221B.2")

**Group 16. Clutch
Subgroup 1602. Clutch control ("BELARUS-1221B/1221B.2")**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
16.5	1	M12	2	Nut
	2	ШП 12	3	Washer
	3	80-1602510	1	Hydraulic booster
	4	80-1602116	4	Ear
	5	M12x100	2	Bolt
	6	1221B-1602112	1	Rod
	7	M12x1,25	1	Nut
	8	50-3502203	1	Fork
	9	M12x35	1	Bolt
	10	80-1601219-Б	1	Lever
	11	3,2x18	3	Cotter pin
	12	12x32	3	Pin
	13	40-4607038-A	4	Washer
	14	40-4607032	2	Bolt
	15	1221B-1602020	1	Pedal
	16	50-1605152	2	Spring
	17	1221B-1602550	1	Operating cylinder
	18	2022-1602200	1	Flexible sleeve
	19	923-3503221	2	Nipple
	20	Д80-4607212	2	Nut
	21	1221B-1602055	1	Pipe
	22	XC-23	2	Clamp
	23	K1221-4607011	1	Hose
	24	80-1602040-Б	1	Rod
	25	A13.33.002	2	Lining
	26	80-1602720	1	Pipe
	27	1221-3407140	1	Valve
	28	40-4607033-A	2	Washer
	29	600-3407080	1	Oil pipeline
	30	H.036.83.160	1	High pressure sleeve
	31	1221B-3407130	1	Pipe
	32	80B-1602106-Б	1	Elbow
	33	822-3503701	2	Union
	34	M8	2	Nut
	35	ШП 8	2	Washer
	36	M8x16	2	Bolt
	37	822-3503155	1	Union
	38	1221B-1602180	1	Pipe
	39	4x36	1	Cotter pin
	40	50-3503071	1	Thrust washer
	41	1221B-1602040	1	Pedal
	42	1221B-1602610	1	Main cylinder
	43	M10x70	2	Bolt
	44	80У-1602143	1	Bushing
	45	M10	2	Nut
	46	ШП 10	5	Washer
	47	M10x25	3	Bolt
	48	80B-1602060	1	Bracket
	49	70-4616033	1	Spring

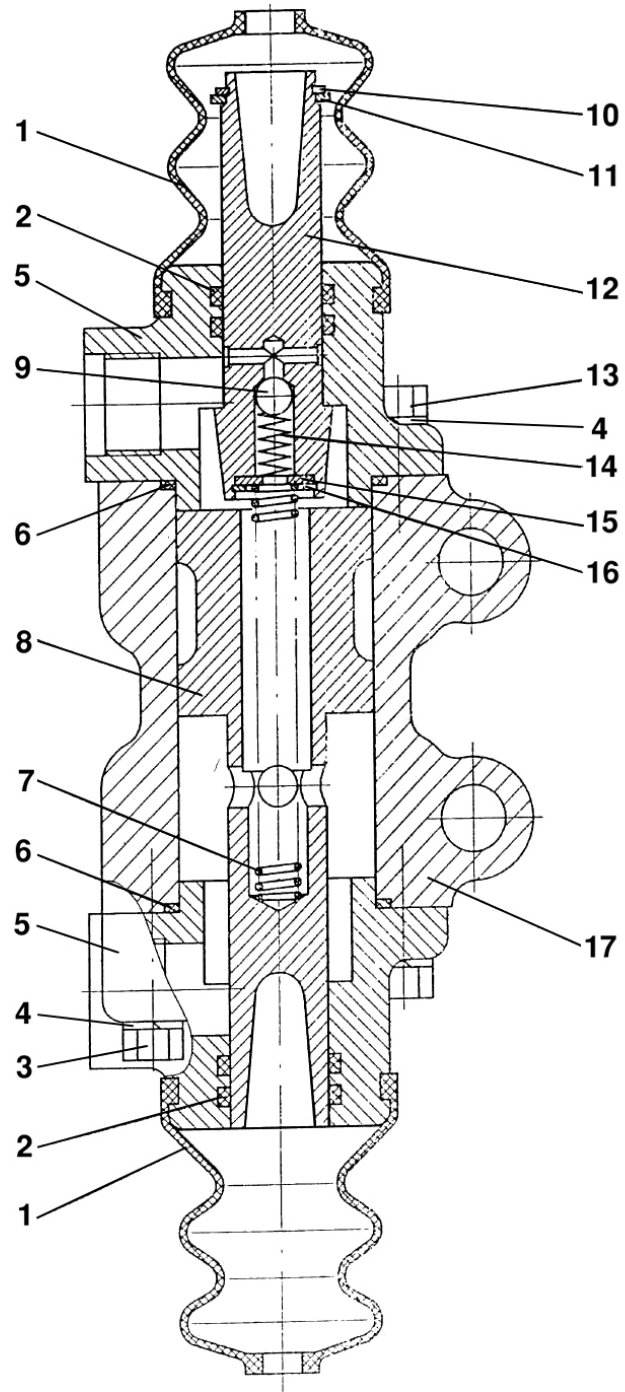


Fig. 16.6. Hydraulic booster

Group 16. Clutch
Subgroup 1602. Hydraulic booster

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

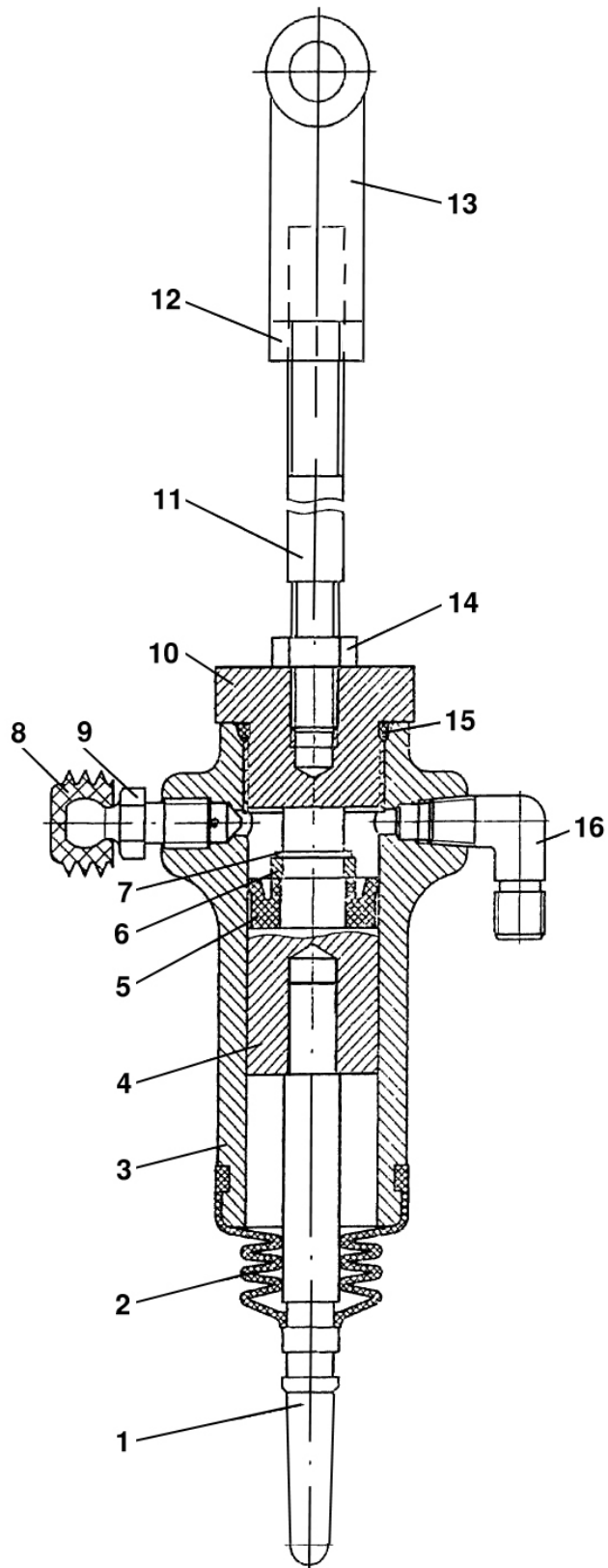


Fig. 16.7. Operating cylinder

Group 16. Clutch
Subgroup 1602. Operating cylinder

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
16.7		1221B-1602550	1	Operating cylinder
	1	80B-1602557	1	Rod
	2	142-1602569	1	Hood
	3	1221B-1602551	1	Housing
	4	1221B-1602556	1	Piston
	5	N14-102 (14x28x10) Simrit 85 EPDMV MOO 282	1	Collar
	6	1221B-1602517-Б	1	Space bushing
	7	C13	1	Ring
	8	142-1602377	1	Cap
	9	142-1602371	1	Valve
	10	1221B-1602561	1	Cover
	11	1221B-1602562-Б	1	Rod
	12	M12x1,25	1	Nut
	13	50-3502203	1	Fork
	14	M10	1	Nut
	15	027-031-25-2-6	1	Ring
16	822-3503037	1	Screw-in elbow	

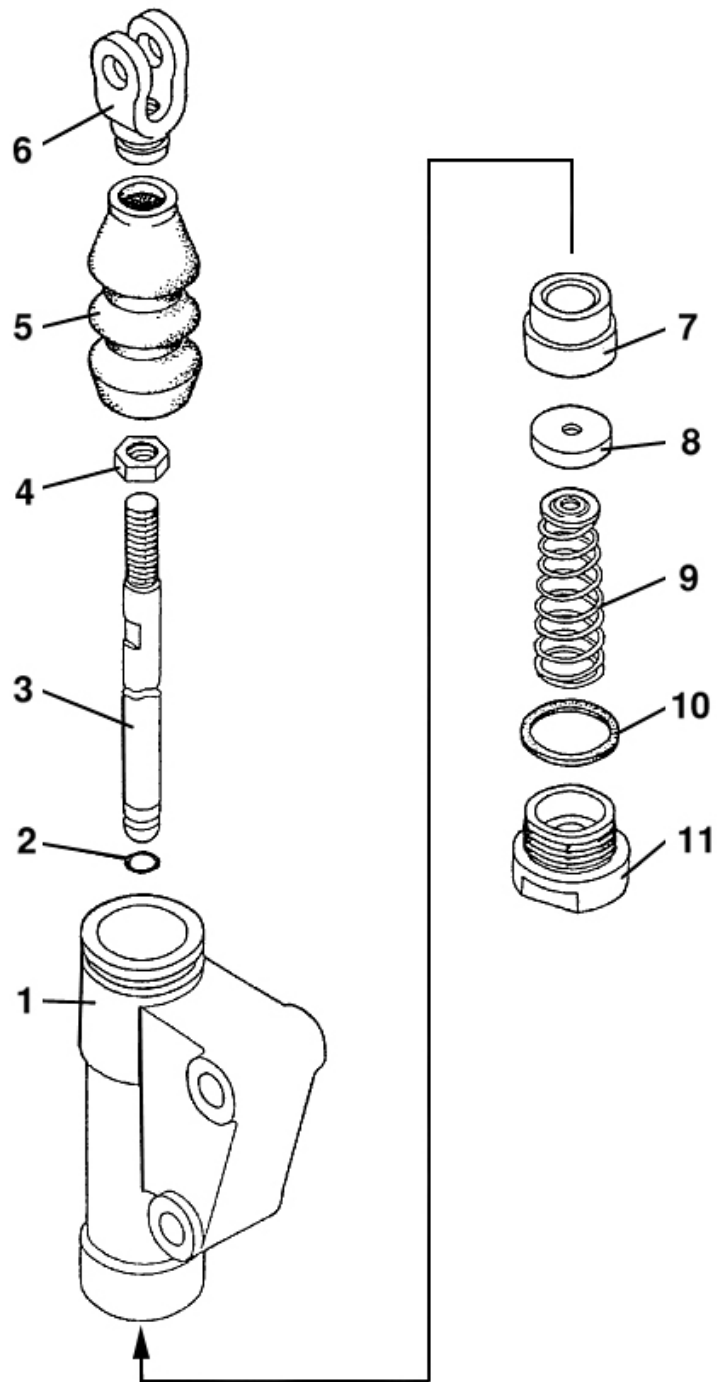


Fig. 16.8 Main cylinder (on reverse)

Group 16. Clutch
Subgroup 1602. Main cylinder (on reverse)

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
16.8		1221B-1602610	1	Main cylinder (1-11)
	1	142-1602611	1	Housing
	2	007-011-25-1-6	1	Ring
	3	1221B-1602616	1	Tappet
	4	M10	1	Nut
	5	142-1602543	1	Hood
	6	1221B-1602617	1	Fork
	7	142-1602612	1	Piston
	8	142-1602117	1	Collar
	9	142-1602620	1	Spring
	10	142-1602614	1	Gasket
11	142-1602613	1	Plug	

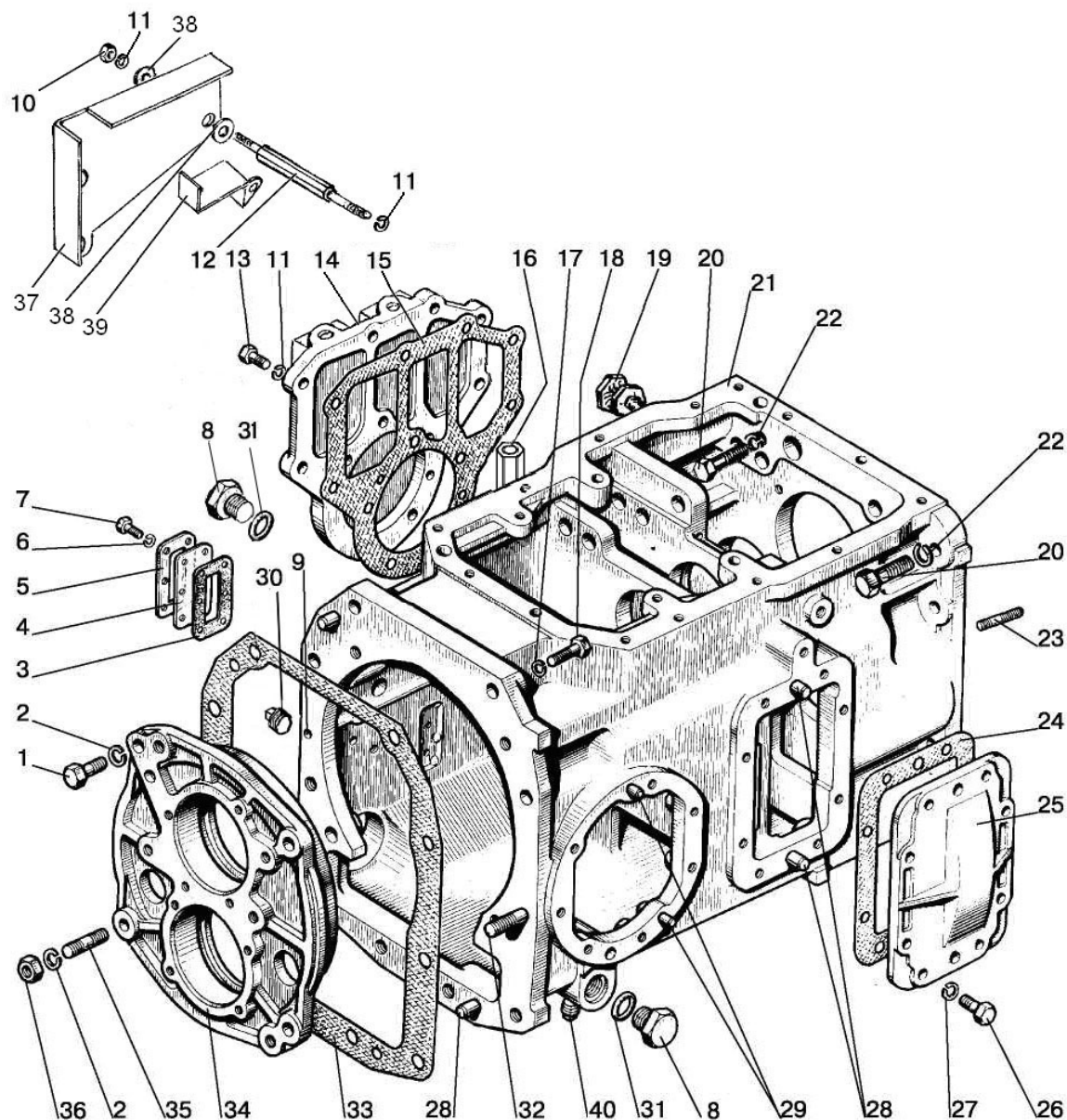


Fig. 17.1. Gearbox

**Group 17. Gearbox
Subgroup 1701. Gearbox**

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

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

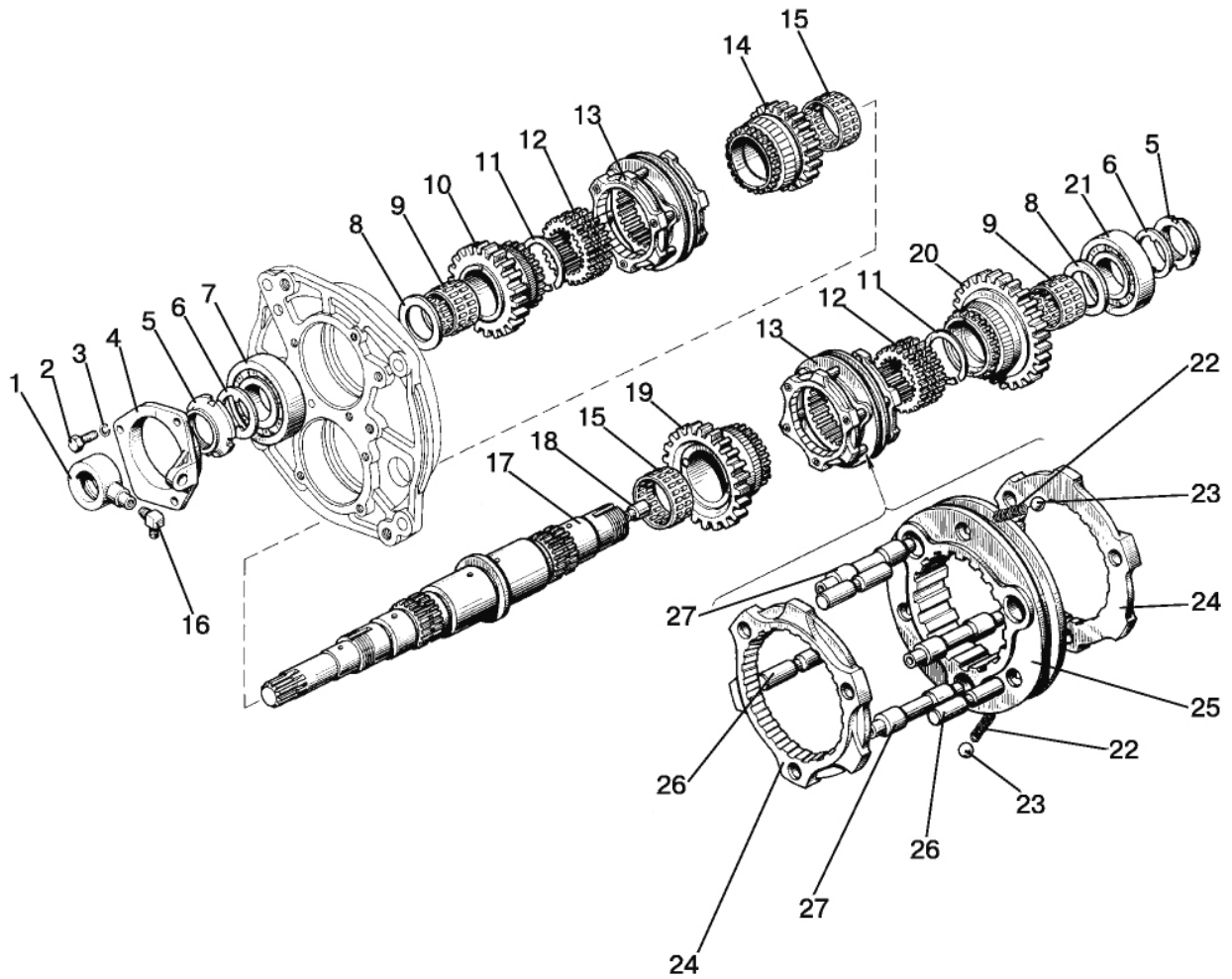


Fig. 17.2. Gearbox. Primary shaft

**Group 17. Gearbox
Subgroup 1701. Gearbox. Primary shaft**

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

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;
TY ПБ – Technical Specifications of the Republic of Belarus;

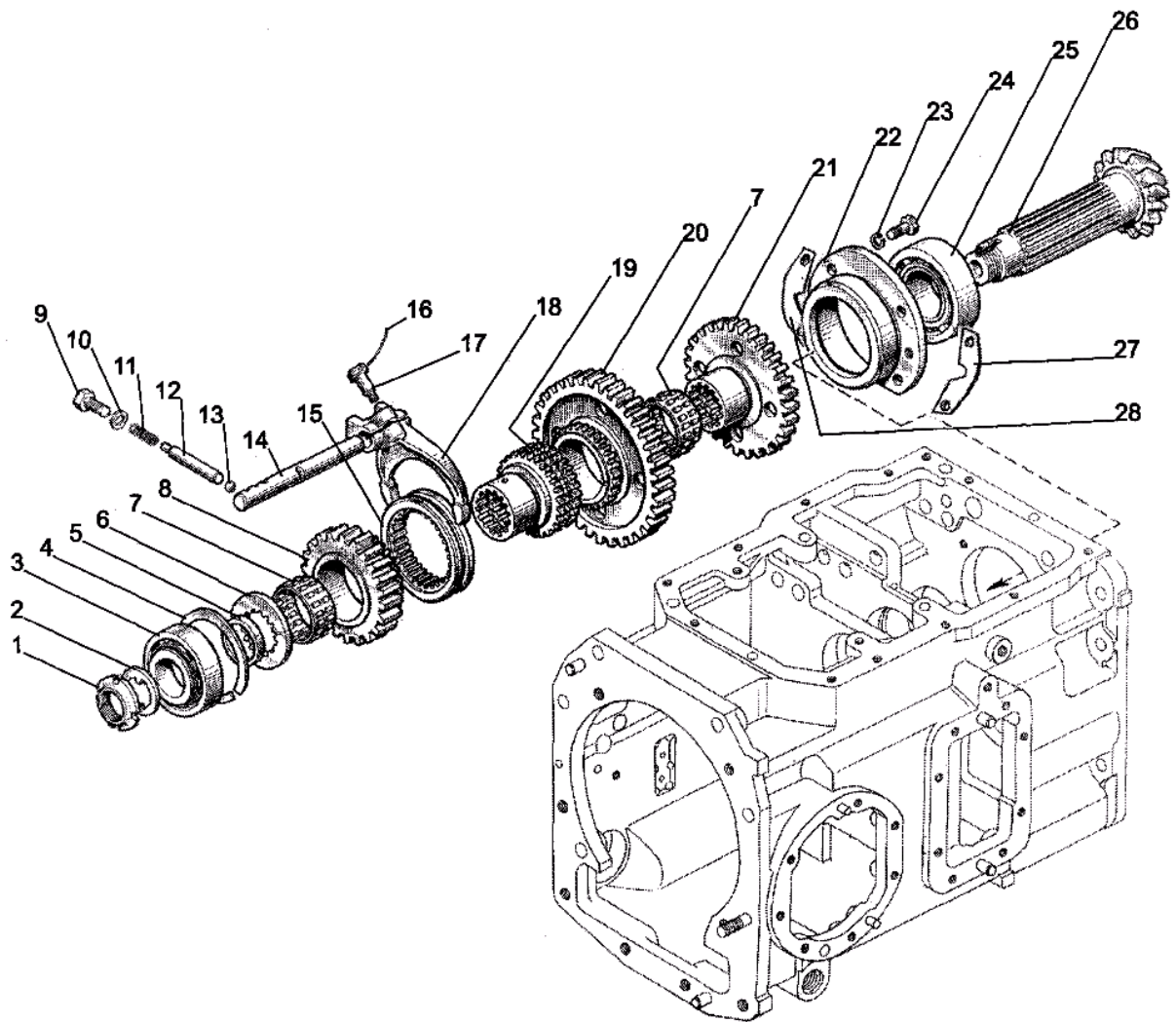


Fig. 17.3. Gearbox. Main shaft

**Group 17. Gearbox
Subgroup 1701. Gearbox. Main shaft**

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

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

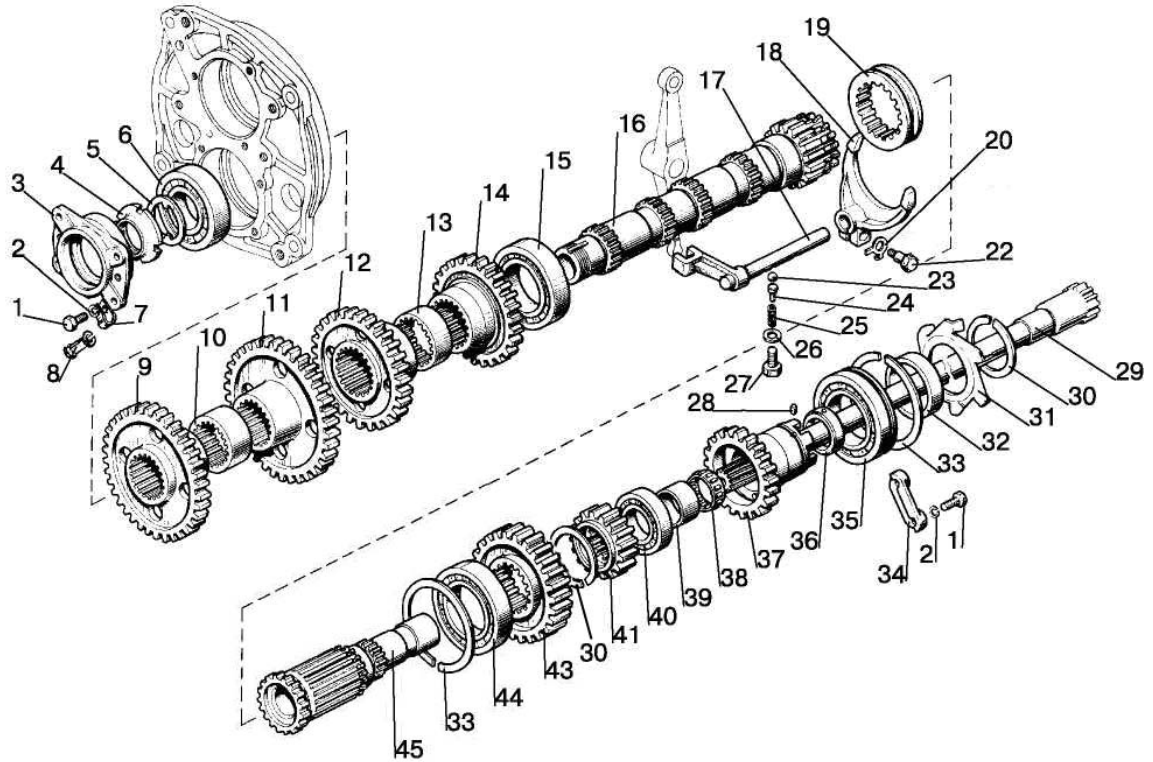


Fig. 17.4. Gearbox. Layshaft

**Group 17. Gearbox
Subgroup 1701. Gearbox. Layshaft**

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

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

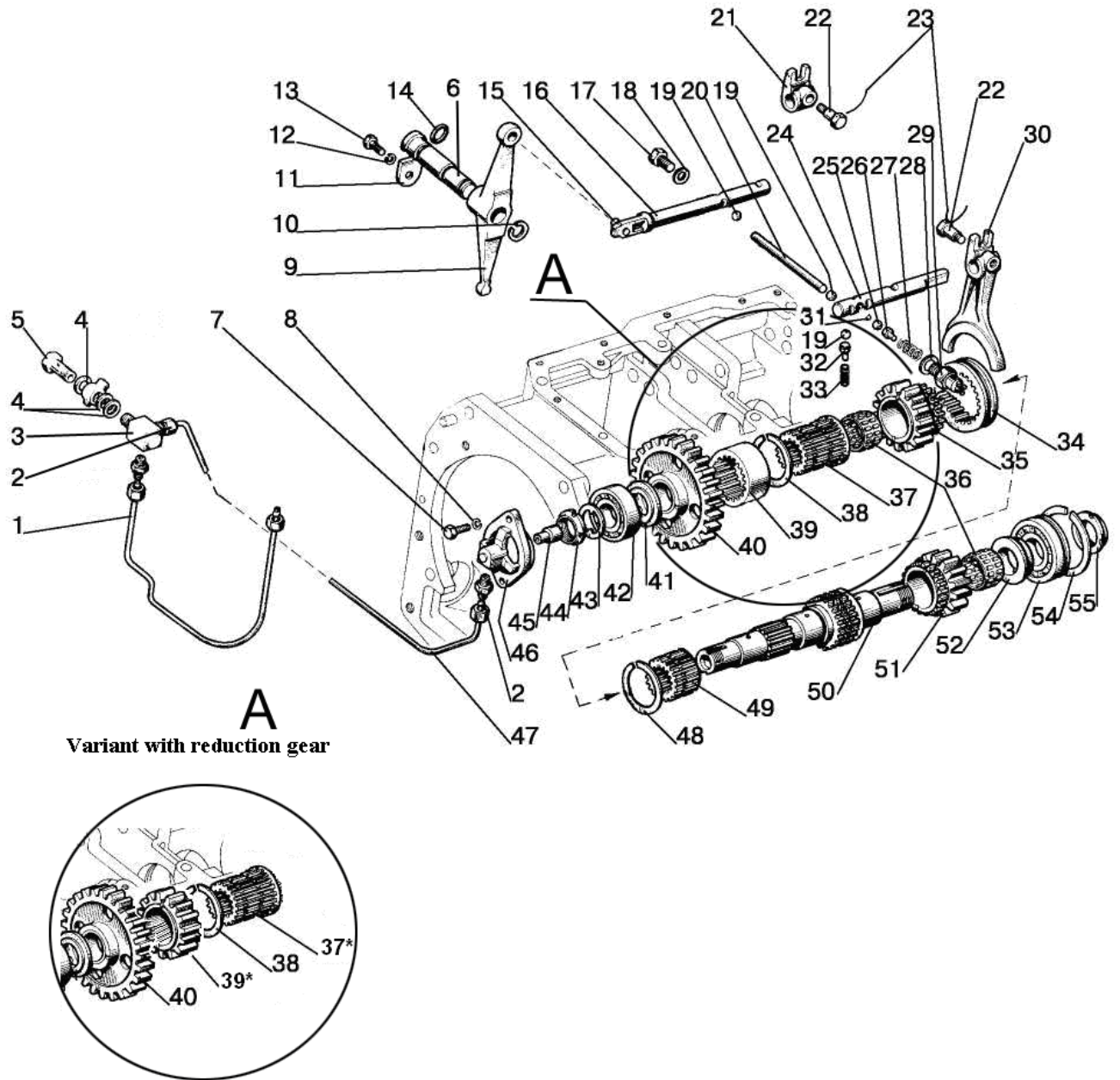


Fig. 17.5. Shaft of low gears

**Group 17. Gearbox
Subgroup 1701. Shaft of low gears**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.5		75-1701320	1	Shaft (35, 37, 49, 51,52)
	1	80-1701430	1	Pipe
	2	80-1701549	3	Union
	3	80-1701057	1	Union
	4	Д18-055-A	3	Seal ring
	5	240-1111103	1	Bolt
	6	85-1702042	1	Axis
	7		2	Bolt M8-6gx20.88.35.019 ГОСТ 7796-70
	8		2	Washer 8T OCT 37.001.115-75
	9	85-1702041	1	Rocker arm
	10		1	Ring C25 ГОСТ 13940-86
	11	85-1702043	1	Plate
	12		1	Washer 10 OT OCT 37.001.115-75
	13		1	Bolt M10-6gx20.88.35.019 ГОСТ 7796-70
	14		1	Ring 026-030-25-2-2 ГОСТ 18829-73/ГОСТ9833-73
	15	85-1702049	1	Pin
	16	85-1702039	1	Shifter arm
	17		1	Bolt M12-6gx25.88.35.019 ГОСТ 7796-70
	18	85-1702051	1	Washer
	19		3	Ball 10,0-60 ГОСТ 3722-81
	20	85-1702046	1	Pin
	21	85-1702045	1	Shifter arm
	22	80-1702108	2	Bolt
	23		2	Wire 1,6-O-C ГОСТ 3282-74
	24	85-1702035	1	Shifter arm
	25		1	Ball 12,7-60 ГОСТ 3722-81
	26	85-1702305	1	Pin
	27	12-23-668-A	1	Spring
	28	50-1702048	10	Shim
	29	BK12-41	1	Switch
	30	85-1702027	1	Fork
	31	85-1702301	1	Axis
	32	80-1704039	1	Guide
	33	50-1702148-A	1	Spring
	34	112-1701343	1	Coupling
	35	112-1701351	1	Gear
	36		2	Bearing 664910E ТУ РБ 00234873.003-99
	37	80-1701346	1	Bushing
	37*	80-1701346-01	1	Bushing
	38		1	Ring 2C70 ГОСТ 13940-86
	39	1222-1701344	1	Bushing
	39*	1025-1701344	1	Gear
	40	80-1701340	1	Gear
	41	80-1701306	1	Washer
	42		1	Bearing 12507KM ГОСТ 8328-75
	43	86-1802052	1	Washer
	44	52-2308097	1	Nut
	45	80-1701053	1	Throttle
46	80-1701311-A	1	Sleeve	
47	80-1701420	1	Pipe	
48	54-31-472	1	Spring ring	

* For tractors with possibility of reduction gear installation

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;
ТУ РБ – Technical Specifications of the Republic of Belarus;

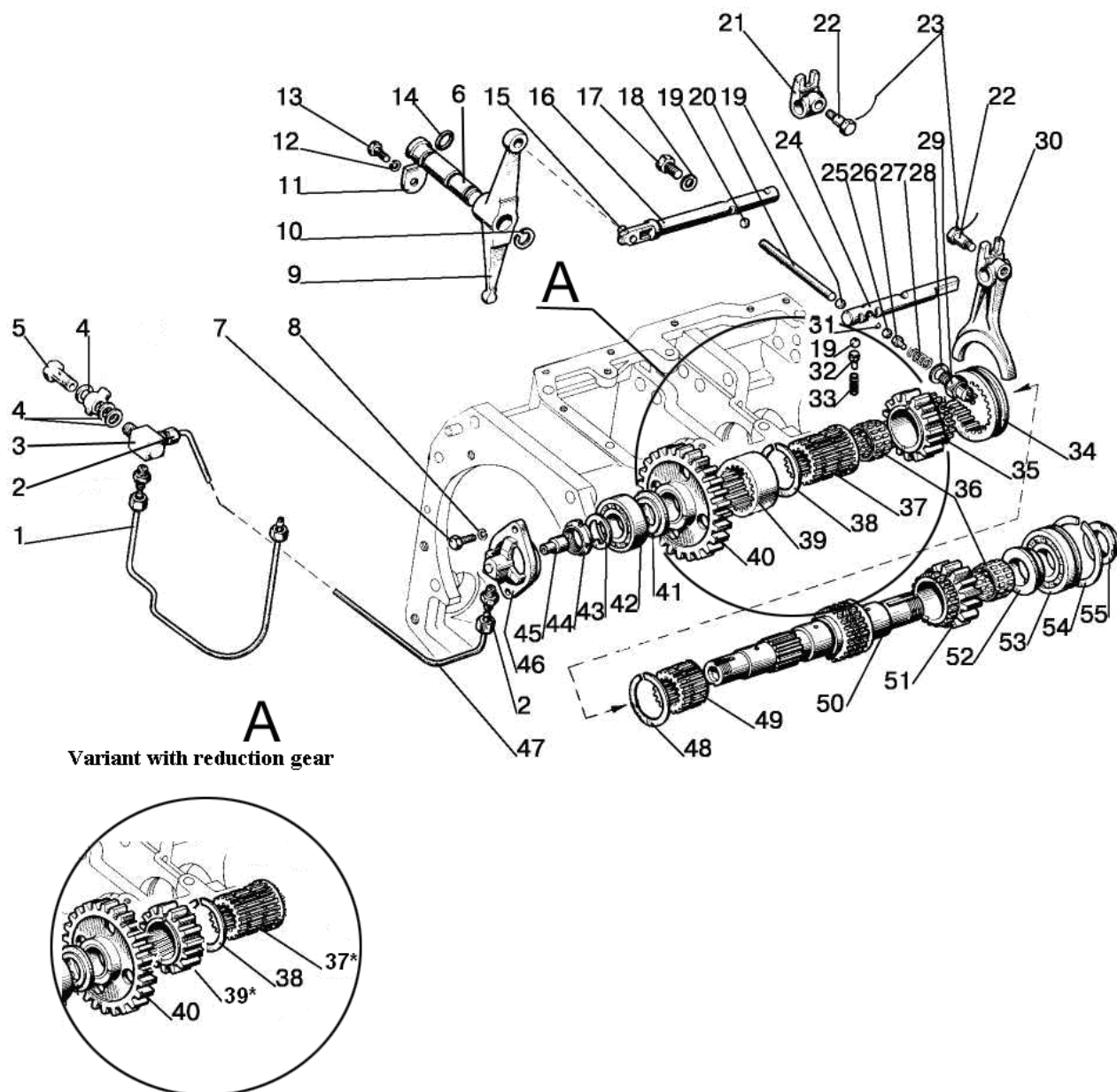


Fig. 17.5. Shaft of low gears

Group 17. Gearbox
Subgroup 1701. Shaft of low gears

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.5	49	75-1701352	1	Bushing
	50	75-1701335	1	Shaft
	51	112-1701361	1	Gear
	52	80-1701339	1	Bushing
	53		1	Bearing 692309KM ГOCT 8328-75
	54	80-1701396	1	Ring
	55	80-1701045	1	Nut

ГOCT – Government Standard (GOST)/State Standard;

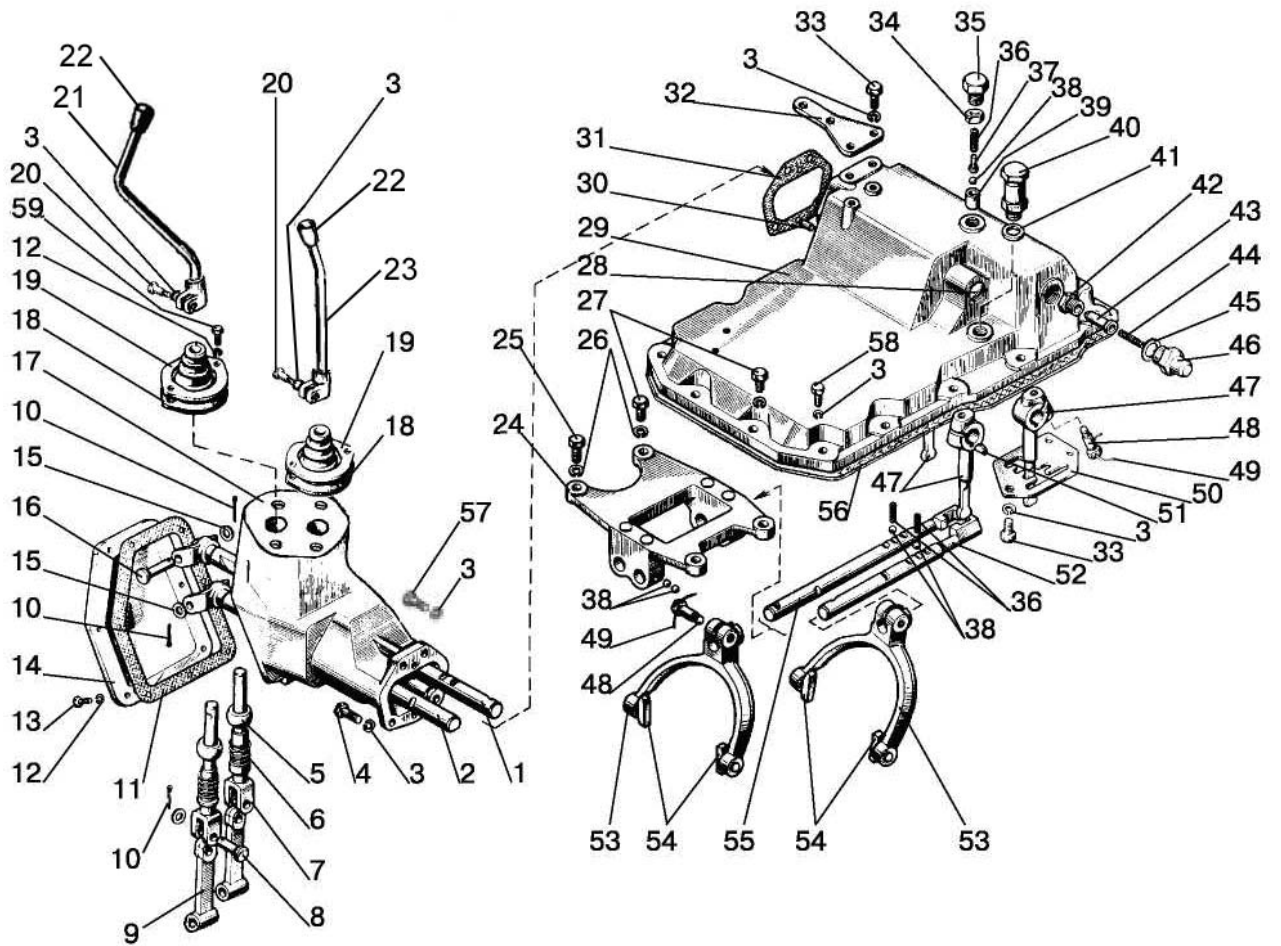


Fig. 17.6. Gearbox control mechanism

**Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism**

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

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

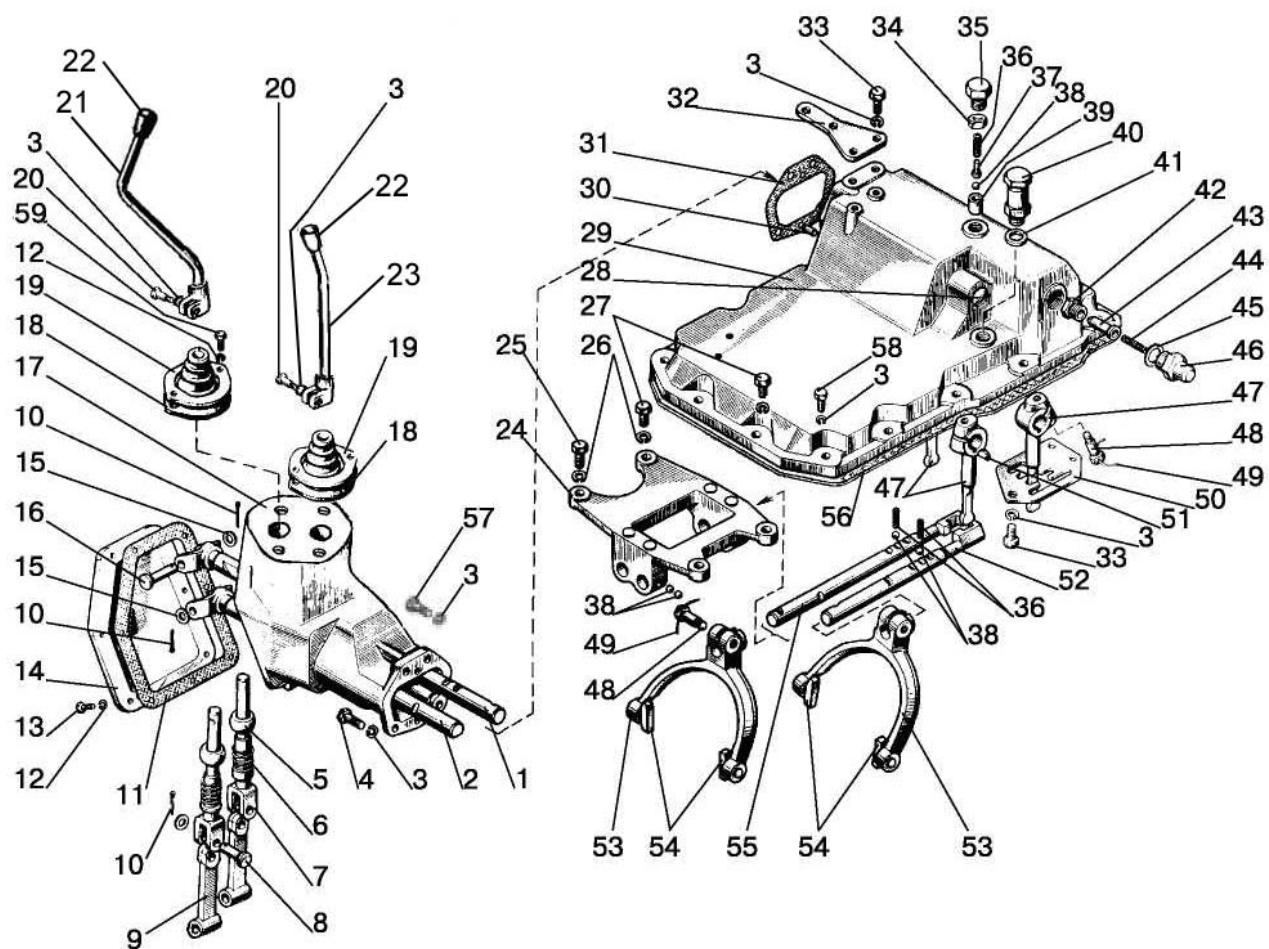


Fig. 17.6. Gearbox control mechanism

Group 17. Gearbox
Subgroup 1702. Gearbox control mechanism

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

ГОСТ – Government Standard (GOST)/State Standard;

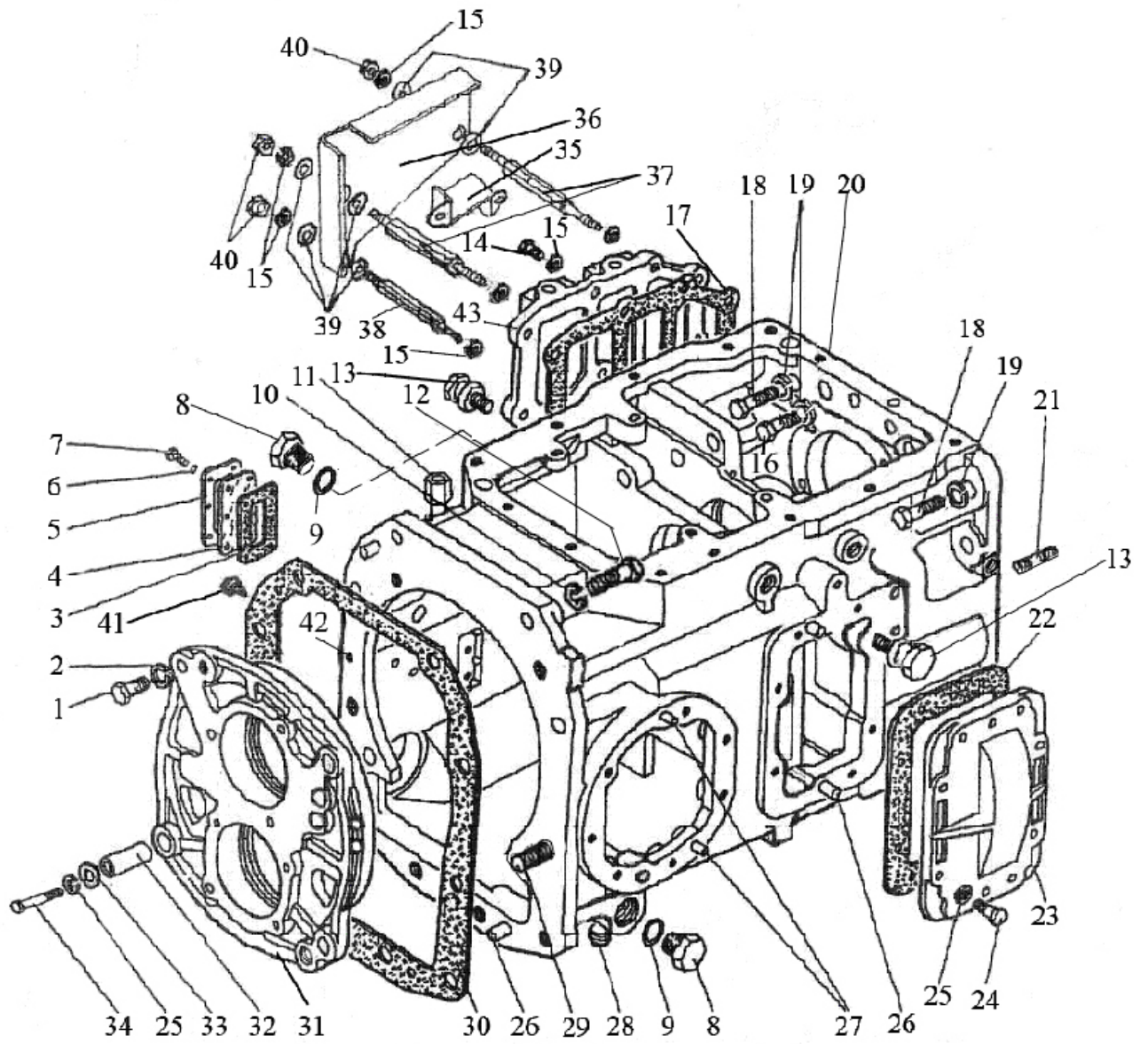


Fig. 17.7 Gearbox 1222-1700010 (24F+12R)

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.7		1222-1700010-02/-05	1	Gearbox
	1	M16x45	2	Bolt
	2	ШП16	2	Washer
	3	85-4608086-A	1	Gasket
	4	85-4608087	1	Indicator
	5	85-4608088	1	Plate
	6	ШП6	6	Washer
	7	M6x16	6	Bolt
	8	80-4608021	2	Blind plug
	9	027-032-30-1-4	2	Ring
	10	ШП20	4	Washer
	11	1221-1737099	1	Union
	12	70-4605036	4	Bolt
	13	50-1002318-Б	2	Eye bolt
	14	M10x35	6	Bolt
	15	ШП10	12	Washer
	16	1221-2401011-02	1	Bolt
	17	80-1701399-Б	1	Gasket
	18	1221-2401011-01	8	Bolt
	19	ШП18	9	Washer
	20	1222-1701025	1	Housing
	21	112-1701524	2	Stud M18 3p/6gx45.66.019 ГОСТ 22034-76
	22	50-1701456-A	1	Gasket
	23	70-1701454-A2-01	1	Cover
	24	M12x30	7	Bolt
	25	ШП12	9	Washer
	26	Д01-015	4	Adjusting pin
	27	ШЦК 10x25	4	Pin
	28	ПК КГ 3/8"	1	Plug
	29	80-1701525	1	Stud M20 3p/6gx65.66.019 ГОСТ 22034-76
	30	80-1701026	1	Gasket
	31	1222-1701034	1	Sleeve
	32	1222-1701071	2	Pin
	33	1222-1701072	2	Washer
	34	M12x60	2	Bolt
	35	1221-1802089-A	1	Clip
	36	1221-1802093	1	Shield
	37	1221-1802094	2	Stud
	38	1221-1802094-01	1	Stud
	39	ШЧ10	6	Washer
	40	M10	3	Nut
	41	КГ 1/8".A12.019	1	Plug
	42	10,0-60	1	Ball
43	1221-1802016	1	Cover	

ГОСТ – Government Standard (GOST)/State Standard;

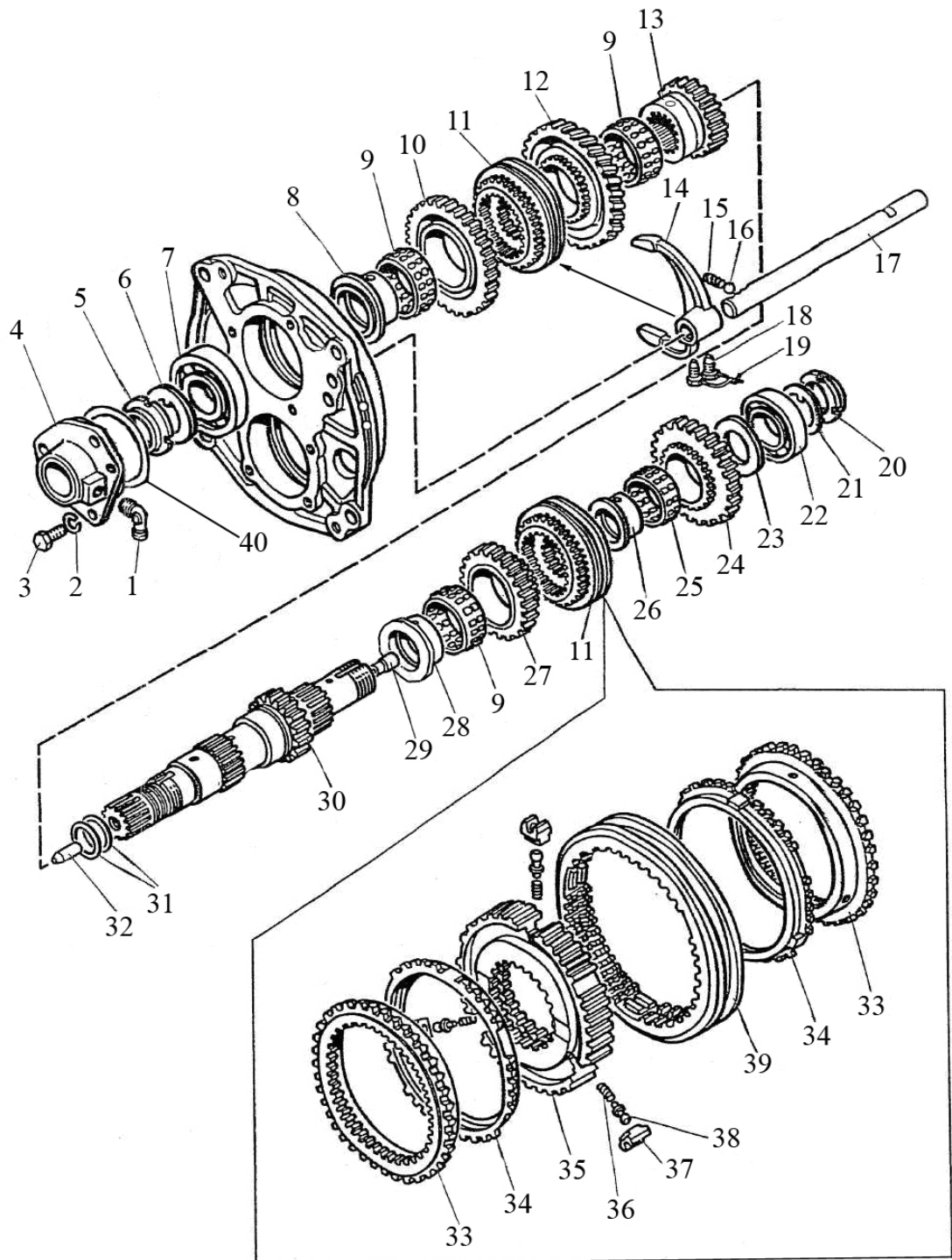


Fig. 17.8 Primary shaft

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.8	1	86-1802088	1	Elbow
	2	ШП12	3	Washer
	3	M12x30	3	Bolt
	4	1222-1701030	1	Sleeve
	5	80-1701047	1	Nut
	6	80-1701186	1	Washer
	7	6-311АШ1	1	Bearing
	8	1222-1701043	1	Bushing
	9	3KK 78x89x38E	3	Bearing
	10	1222-1701052	1	Gear
	11	GT-C 114; 3.28434.3 or 1222-1701400*	2	Synchronizer
	12	1222K-1701054	1	Gear
	13	1222-1701044	1	Gear
	14	1222-1702088	1	Fork
	15	50-1702148-A	1	Lock spring
	16	10,0-60	1	Ball
	17	1222-1702082	1	Shifter arm
	18	220-1702061	2	Bolt
	19	1,6-O-C	200 mm	Wire
	20	80-1701045	1	Nut
	21	80-1701056	1	Washer
	22	309K	1	Bearing
	23	1222-1701049	1	Washer
	24	1222-1701048	1	Gear
	25	664913E	1	Bearing
	26	1222-1701047	1	Bushing
	27	1222-1701042	1	Gear
	28	1523-1701046	1	Bushing
	29	80-1701053	1	Throttle
	30	1523-1701032	1	Shaft-gear
	31	2522-1802083	2	Seal ring
	32	50-1601352	1	Adjusting pin
	33	1222-1701393*	2	Conical ring
	34	1222-1701390*	2	Lock ring
	35	1222-1701392*	1	Carriage
	36	1222-1701396*	3	Spring
	37	1222-1701397*	3	Tappet
	38	1222-1701398*	3	Lock
	39	1222-1701394*	1	Coupling
	40	1222-1701033*	0-3	Washer

* For synchronizer 1222-1701400

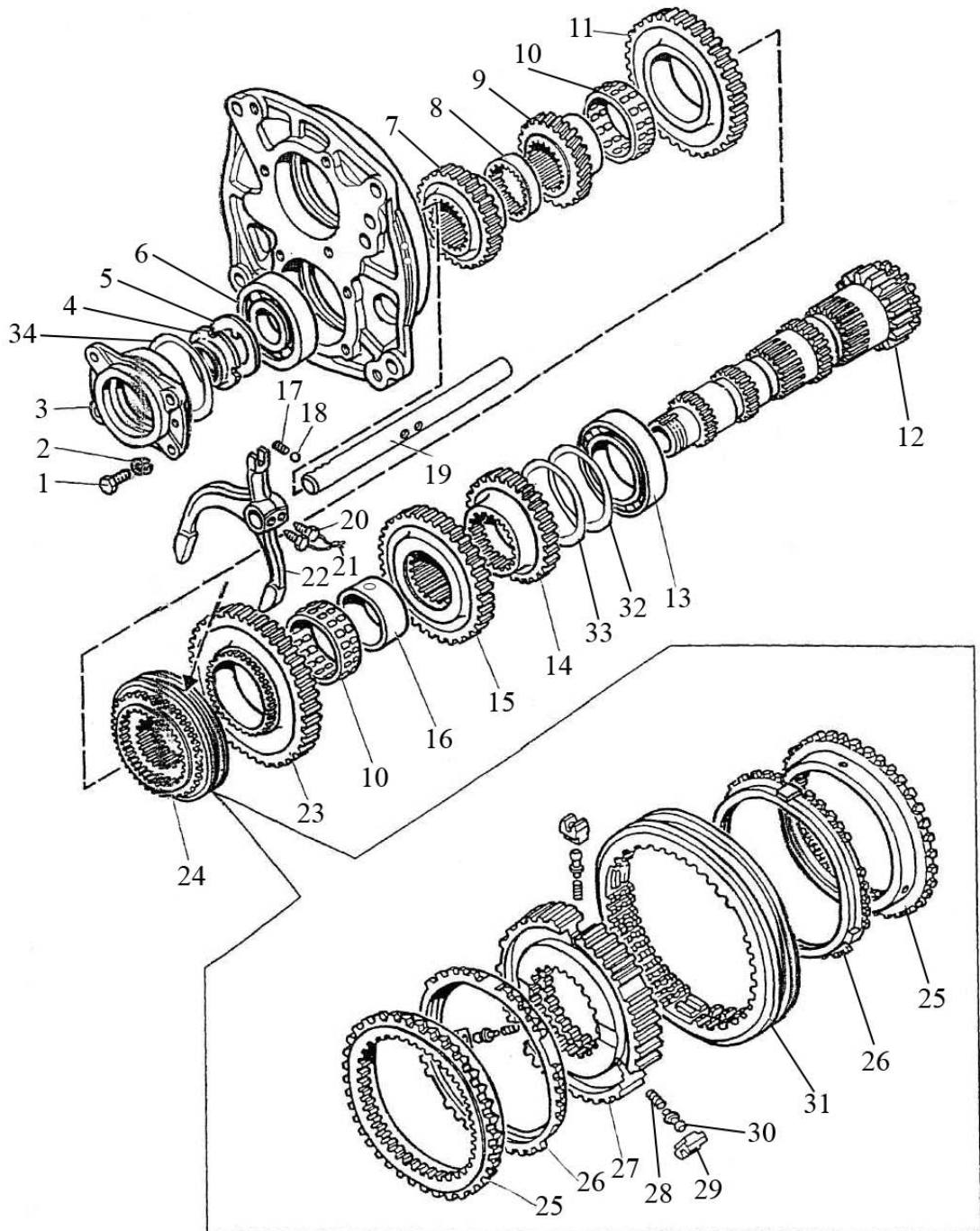
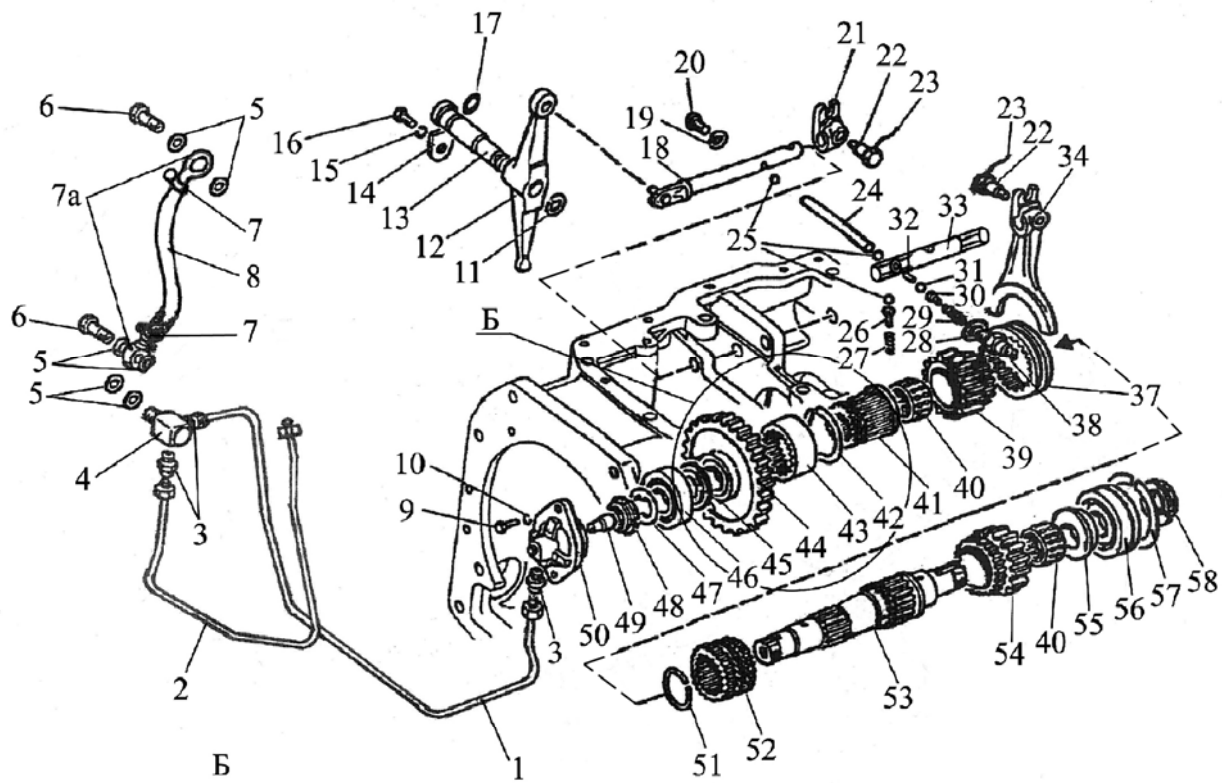


Fig. 17.9 Layshaft

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

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

* For synchronizer 1222-1701400



Variant with reduction gear

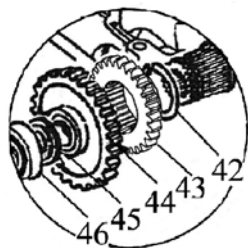
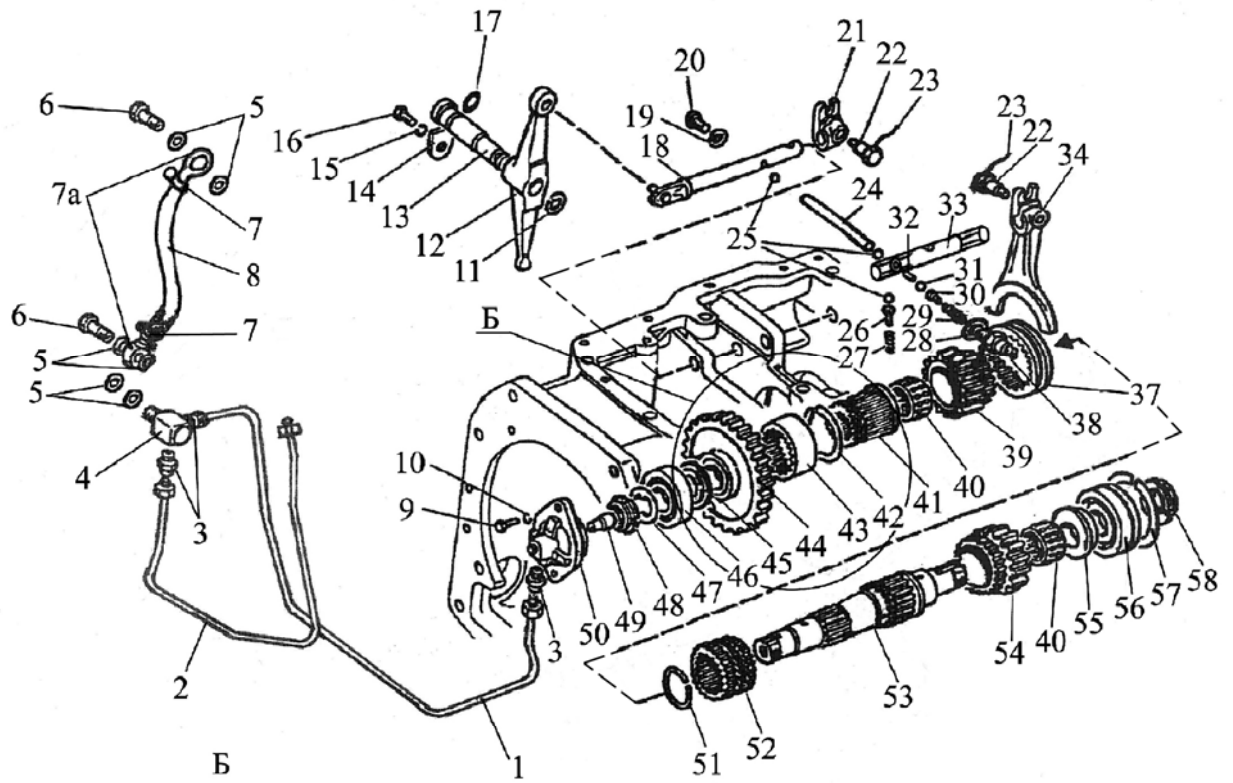


Fig. 17.10 Shaft of low gears and reverse

**Group 17. Gearbox
Subgroup 1701. Gearbox. Shaft of low gears and reverse
(24F+12R)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.10		75-1701320	1	Shaft (40-1pcs.,53,55-58)
		80-1701310	1	Sleeve (3-1pcs., 49,50)
		1222-1702130-01	1	Oil pipeline (7,7a,8)
	1	80-1701420	1	Pipe
	2	80-1701430	1	Pipe
	3	80-1701549	3	Union
	4	80-1701057	1	Union
	5	Д18-055-A	6	Seal ring
	6	Д18-051	2	Bolt
	7	12-22	2	Clamp with worm thread
	7a	Φ80-3407720	2	Oil pipeline
	8	1222-1702131-01	1	Hose
	9	M8x20	2	Bolt
	10	ШП8	2	Washer
	11	C25	1	Ring
	12	85-1702041	1	Rocker arm
	13	85-1702042	1	Axis
	14	85-1702043	1	Plate
	15	ШП10	1	Washer
	16	M10x20	1	Bolt
	17	026-030-25-2-2	1	Ring
	18	85-1702050	1	Shifter arm
	19	85-1702051	1	Washer
	20	M12x25	1	Bolt
	21	85-1702045	1	Shifter arm
	22	80-1702108	2	Bolt
	23	1,6-O-C	2x200 mm	Wire
	24	85-1702046	1	Pin
	25	10,0-60	3	Ball
	26	80-1704039	1	Guide
	27	50-1702148-A	1	Lock spring
	28	50-1702048	5	Shim
	29	12-23-668-A	1	Spring
	30	85-1702305	1	Pin
	31	12,7-60	1	Ball
	32	85-1702301	1	Axis
	33	85-1702035	1	Shifter arm
	34	1222-1702027	1	Fork
	37	112-1701343	1	Coupling
	38	BK 12-41	1	Switch
	39	1222-1701351	1	Gear
	40	664910E	2	Bearing
	41	80-1701346 or 80-1701346-01*	1 1	Bushing Bushing
	42	2C70	1	Ring
	43	1222-1701344 or 1025-1701344*	1 1	Bushing Gear
	44	1520-1701340	1	Gear
45	80-1701306	1	Washer	
46	12507KM	1	Bearing	

* Variant with reduction gear



Variant with reduction gear

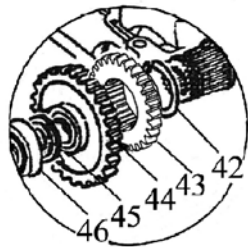


Fig. 17.10 Shaft of low gears and reverse

Group 17. Gearbox
Subgroup 1701. Gearbox. Shaft of low gears and reverse
(24F+12R)

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.10	47	86-1802052	1	Washer
	48	52-2308097	1	Nut
	49	80-1701053	1	Throttle
	50	80-1701311-A	1	Sleeve
	51	54-31-472	1	Spring ring
	52	75-1701352	1	Bushing
	53	75-1701335	1	Shaft
	54	1222-1701361	1	Gear
	55	80-1701339	1	Bushing
	56	692309KM	1	Bearing
	57	80-1701396	1	Ring
	58	80-1701045	1	Nut

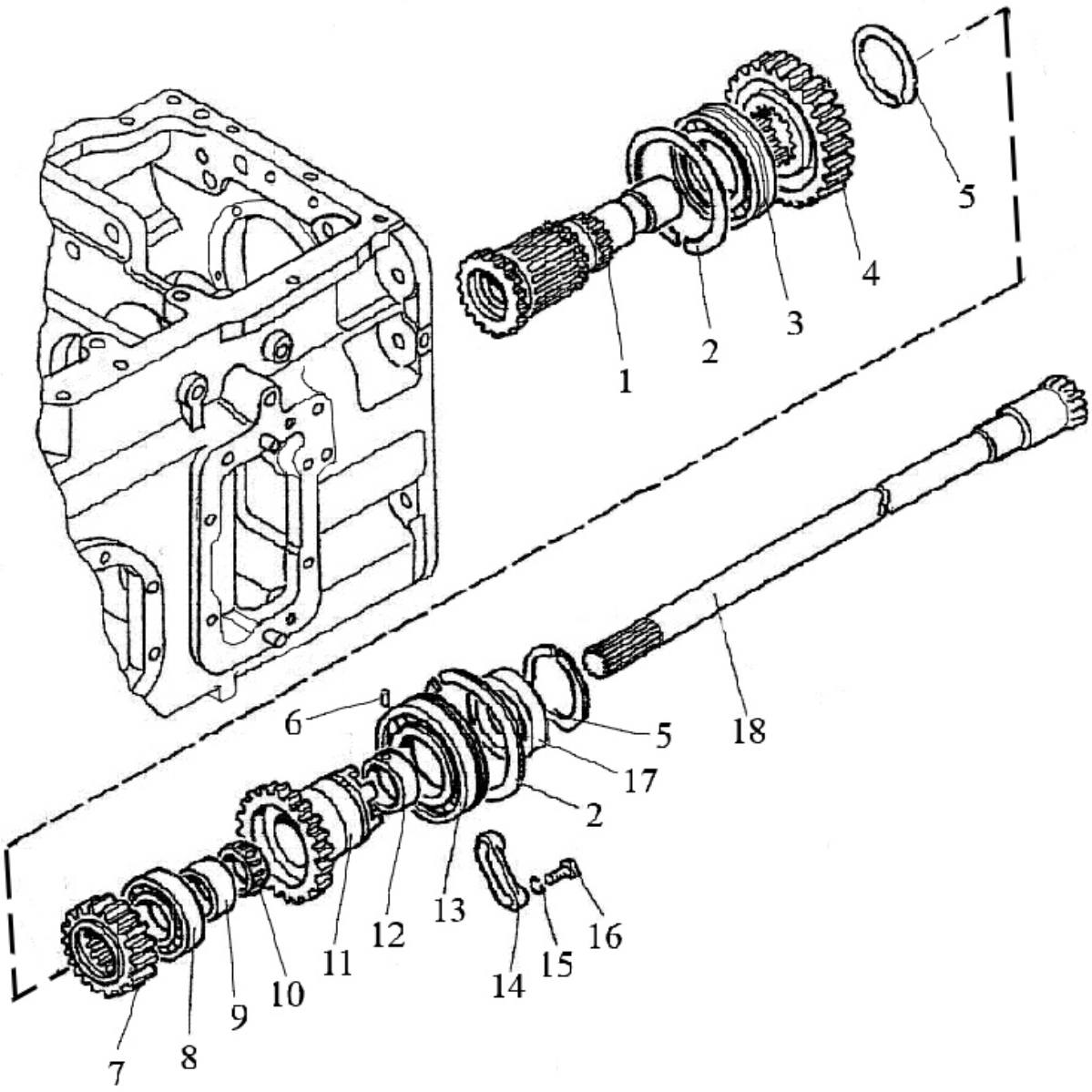


Fig. 17.11 Gears block shaft

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

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

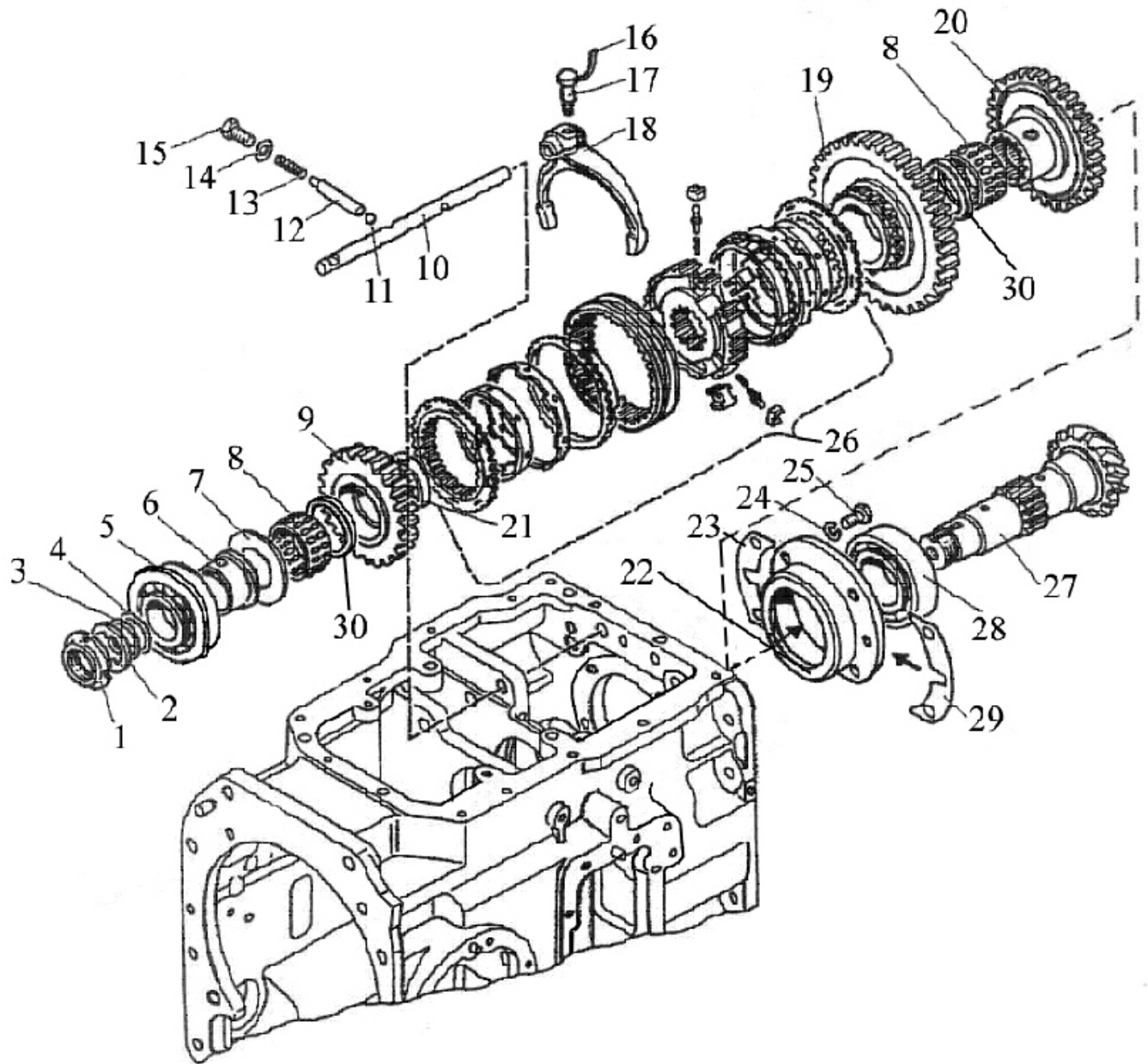


Fig. 17.12 Main shaft

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

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

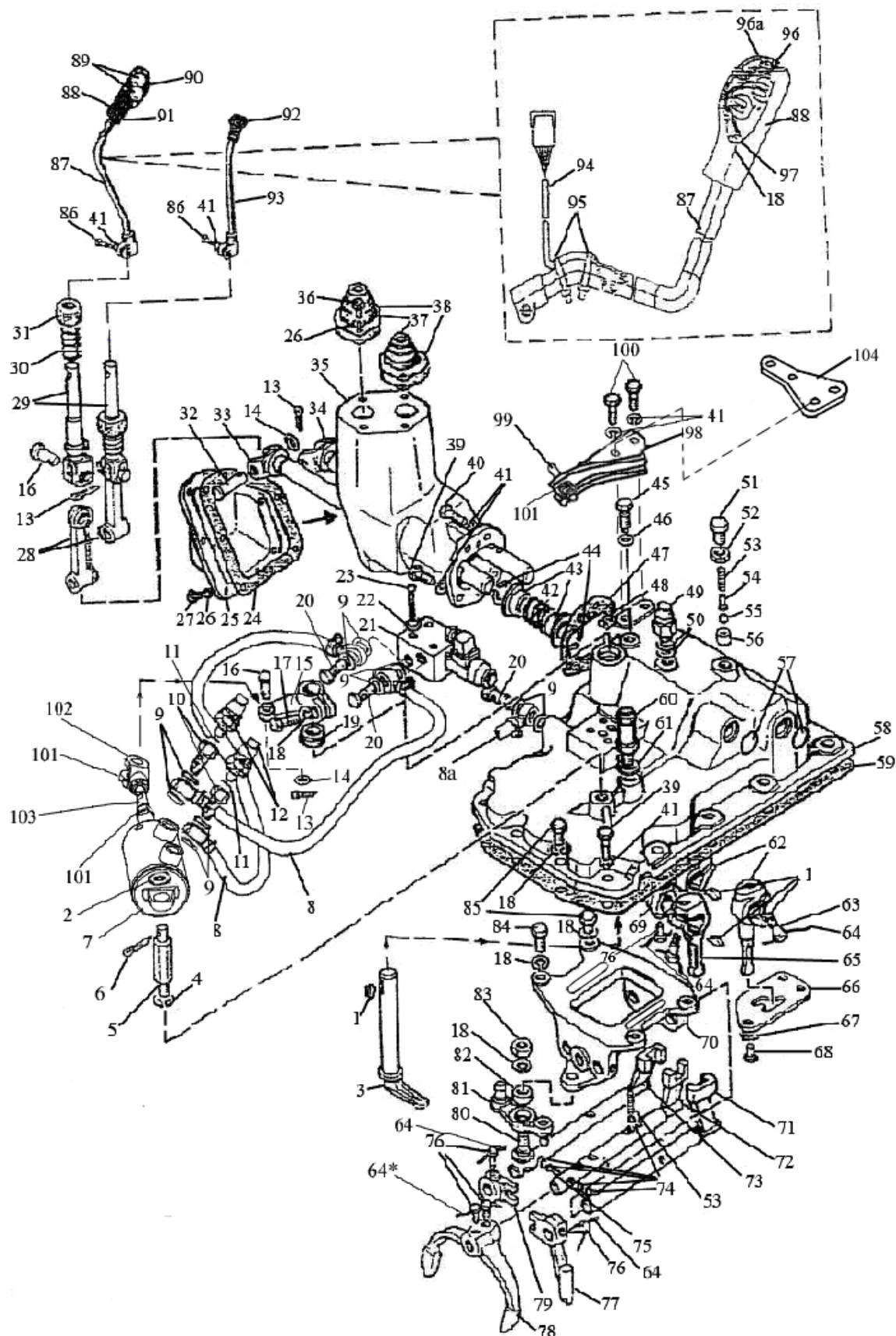


Fig. 17.13 Gearbox control mechanism

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.13		1222-1702010	1	Gearbox control mechanism
		1222-1702080	1	Yoke body (18-1 pcs., 53-1 pcs., 64 (2x200+200*=600 mm), 70-83)
	1	6x10	4	Key
	2	ШЧ16	1	Washer
	3	1222-1702093	1	Lever
	4	ШП16	1	Washer
	5	1222-1702096	1	Axis
	6	3,2x25	1	Cotter pin
	7	2102-4216110-Б	1	Cylinder
	8	1222-1702130	2	Oil pipeline
	8a	1222-1702130-01	1	Oil pipeline
	9	Д18-055-А	10	Seal ring
	10	1222-1702114	2	Union
	11	009-012-19-1-4	2	Ring
	12	ДСДМ-М	2	Sensor
	13	3,2x18	5	Cotter pin
	14	85-4619014	3	Washer
	15	1222-1702092	1	Lever
	16	12x32	3	Pin
	17	M12x35	1	Bolt
	18	ШП12	8	Washer
	19	2.2-25x42-1	1	Collar
	20	Д18-051	3	Bolt
	21	RH 06101-012/00GA-AMP	1	Hydraulic distributor
	22	ШП5	4	Washer
	23	В.М5x50	4	Screw
	24	80-1702068	1	Gasket
	25	80-1702067	1	Cover
	26	ШП6	11	Washer
	27	M6x16	7	Bolt
	28	80С-1702073	2	Lever
	29	80С-1702074	2	Fork
	30	77.37.117	2	Spring
	31	142-1702032	2	Sphere
	32	12x55	2	Pin
	33	1222-1702070	1	Shaft
	34	80С-1702060	1	Shaft
	35	80-1702078-А	1	Housing
	36	M6x20	4	Bolt
	37	55-47-569-А	2	Hood
	38	80С-1702075	2	Washer
	39	M10x35	14	Bolt
	40	M10x40	2	Bolt
	41	ШП10	20	Washer
	42	80-4608057	1	Spring
	43	1222-1702064	2	Bushing
	44	С25	2	Ring
	45	1222-1702048	1	Screw
	46	85-1702051	1	Washer
	47	80С-1702066	1	Gasket
48	8x16	2	Pin	
49	БК 12-41	1	Switch	
50	50-1702048	10	Shim	

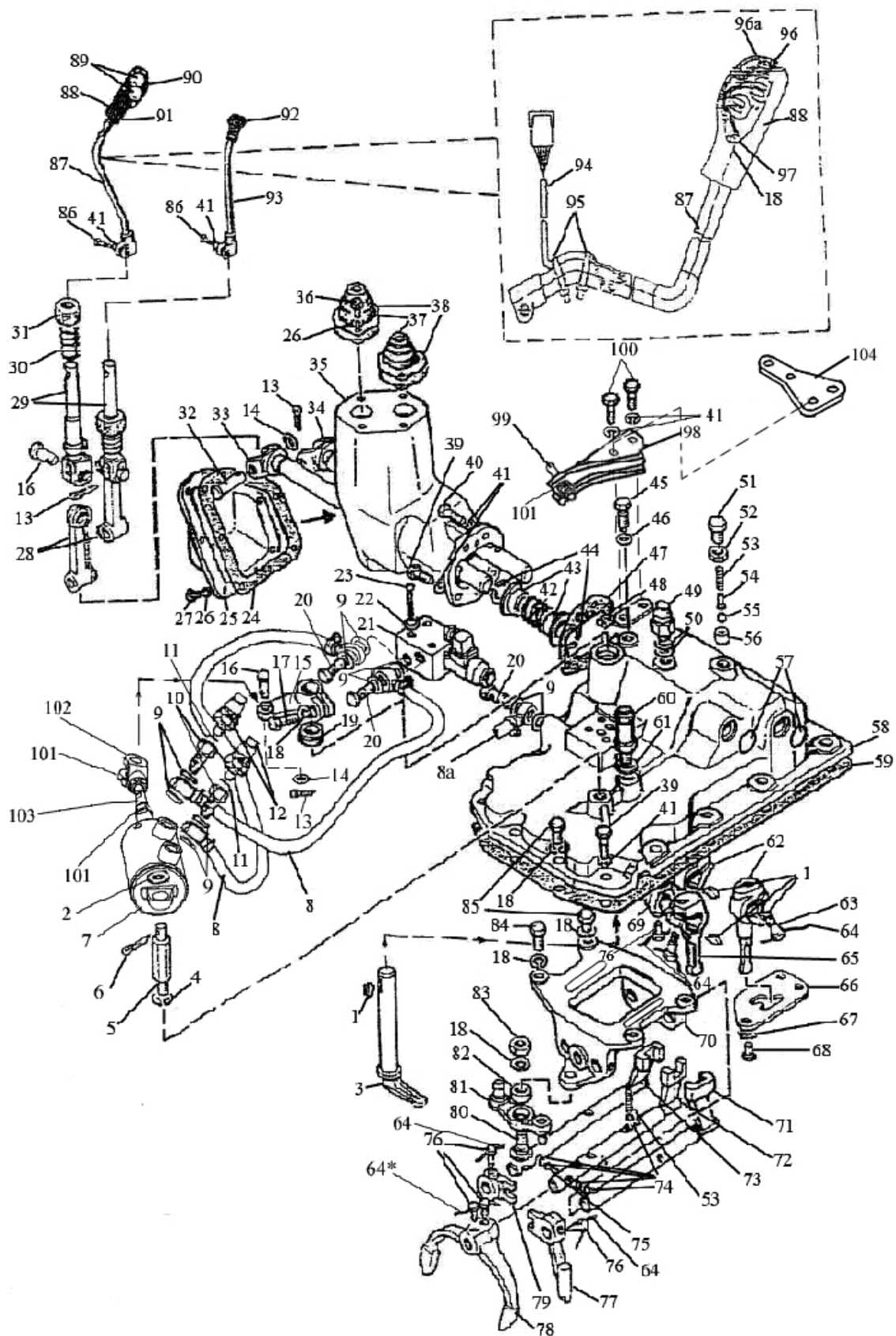


Fig. 17.13 Gearbox control mechanism

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.13	51	70-1703204	1	Bolt
	52	M16	1	Nut
	53	50-1702148-A	2	Lock spring
	54	80-1704039	1	Guide
	55	10,0-60	1	Ball
	56	70-1703013	1	Bushing
	57	28-10	2	Blind plug
	58	1222-1702030	1	Cover
	59	85-1702026	1	Gasket
	60	85-1702270	1	Breather
	61	B50-3522023	1	Gasket
	62	85-1702055	2	Lever
	63	80-1702108	3	Bolt
	64	1,6-O-C	7x200 mm	Wire (* 200 mm fork bolts locking pos.78 by gearbox assembling)
	65	1222-1702055	1	Lever
	66	1222-1702052	1	Link
	67	80-3401013	3	Washer
	68	M10x20	3	Bolt
	69	1222-1702074	1	Bushing
	70	1222-1702081	1	Housing
	71	1222-1702084	1	Shifter arm
	72	1222-1702086	1	Shifter arm
	73	1222-1702083	1	Shifter arm
	74	9,922-100	5	Ball
	75	85-1702301	1	Axis
	76	220-1702061	5	Bolt
	77	1222-1702109	1	Shifter arm
	78	1222-1702091	1	Fork
	79	1222-1702107	1	Stop
	80	1222-1702112	1	Axis
	81	1222-1702105	1	Rocker arm
	82	941/20	1	Bearing
	83	M12	1	Nut
	84	M12x30	2	Bolt
	85	50-1702092	4	Bolt
	86	M10x30	2	Bolt
	87	1222-1702610-A1	1	Lever
	88	75-1702505	1	Handle
	89	BK 12-1	2	Switch
	90	4x30 ГОСТ 10621-80	4	Screw
	91	75-1702502	1	Cover
	92	A15.05.020	1	Handle
	93	2022-1702500-A	1	Lever
	94	1221-3724925-A	1	Braid
	95	80-3723045	2	Collar
	96	АЛ 307 КМ А0.336.076 ТУ (red)	1	Light-emitting diode
	96a	АЛ 307ЧМ А0.336.076 ТУ (yellow)	1	Light-emitting diode
	97	M12x1,25-6H.6.019 ГОСТ 5915-70	1	Nut
98	2022-1702090	1	Bracket	

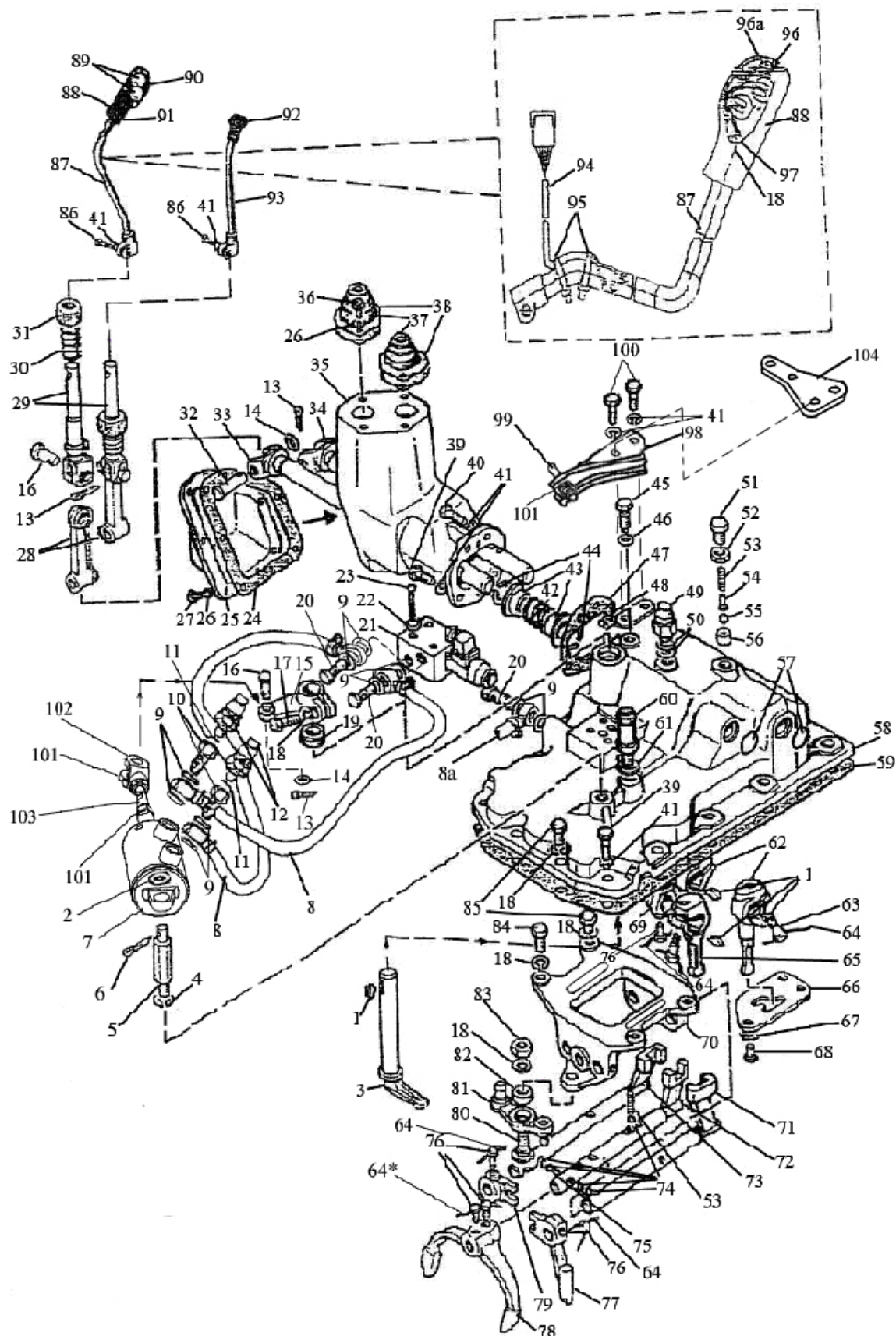


Fig. 17.13 Gearbox control mechanism

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

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

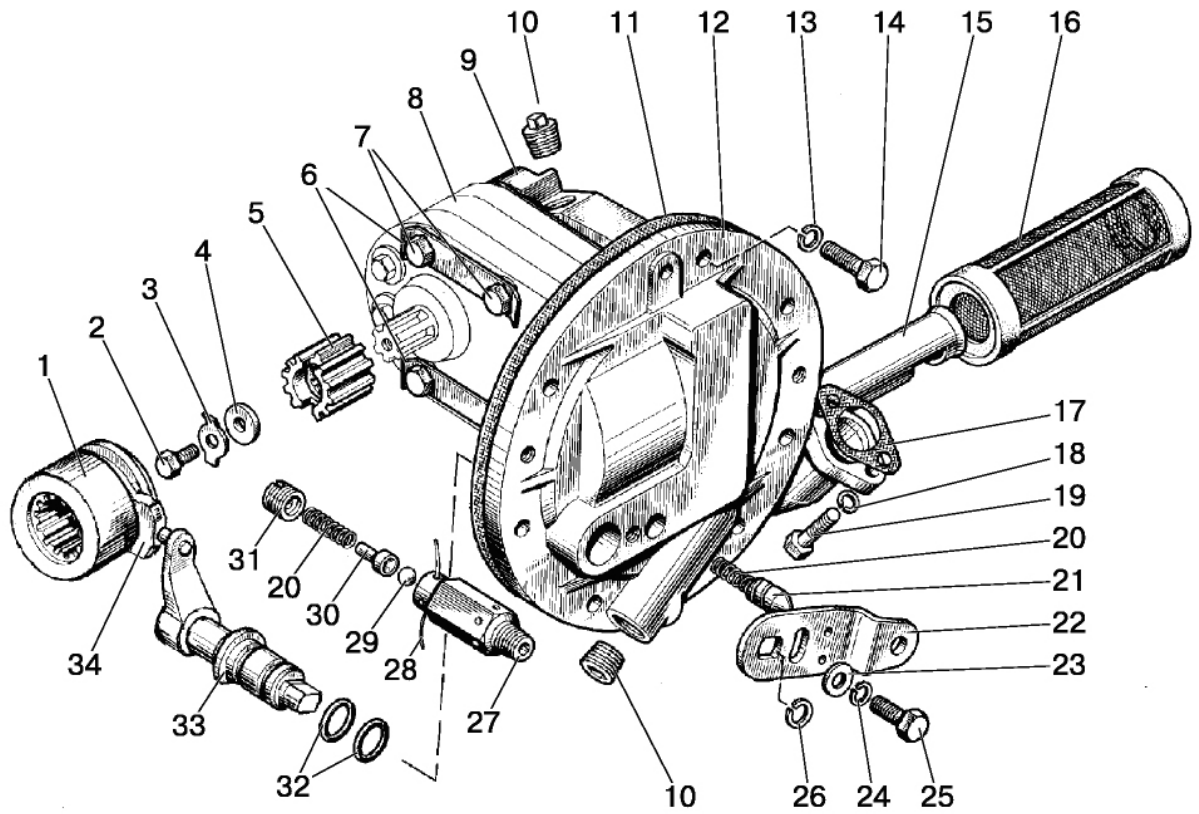


Fig. 17.14. Pumps drive

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

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

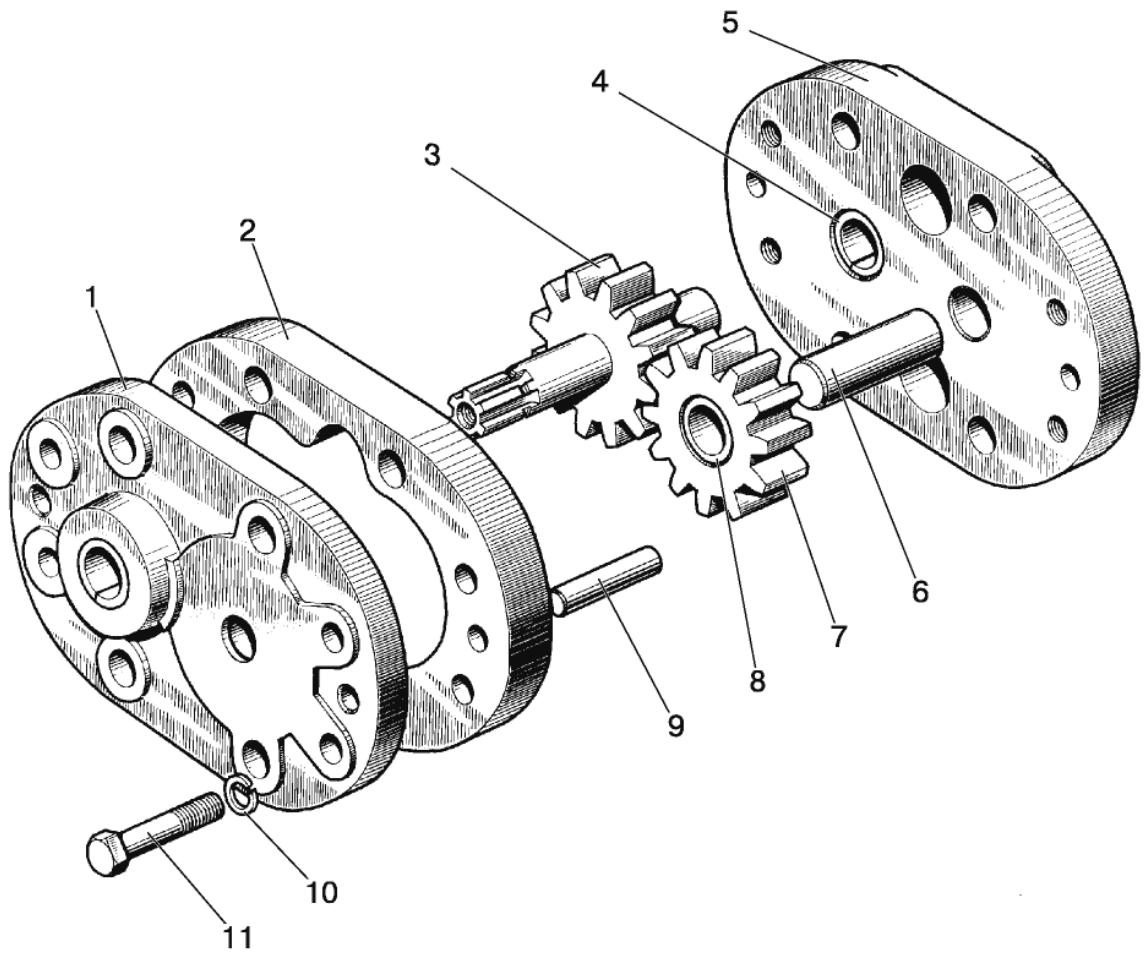


Fig. 17.15. Oil gear pump

Group 17. Gearbox
Subgroup HMШ-25. Oil gear pump

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.15		HMШ 25-00-00-02	1	Oil gear pump (1-11)
		HMШ 25-01-00	1	Lower cover (4,5)
		HMШ 25-02-00	1	Upper cover (1, 4)
		HMШ 50-03-00	1	Driven gear (7, 8)
	1	HMШ 25-02-01	1	Upper cover
	2	HMШ25-00-01	1	Housing
	3	HMШ 25-00-02	1	Driving gear
	4	HMШ 25-01-02	2	Screw-in bushing
	5	HMШ 25-01-01	1	Lower cover
	6	HMШ 25-04-01	1	Axis
	7	HMШ 50-03-01	1	Driven gear
8	HMШ 50-03-02	1	Bushing	
9	HMШ 10x45	2	Pin	
10	ШП 10	4	Washer	
11	M10x45	4	Bolt	

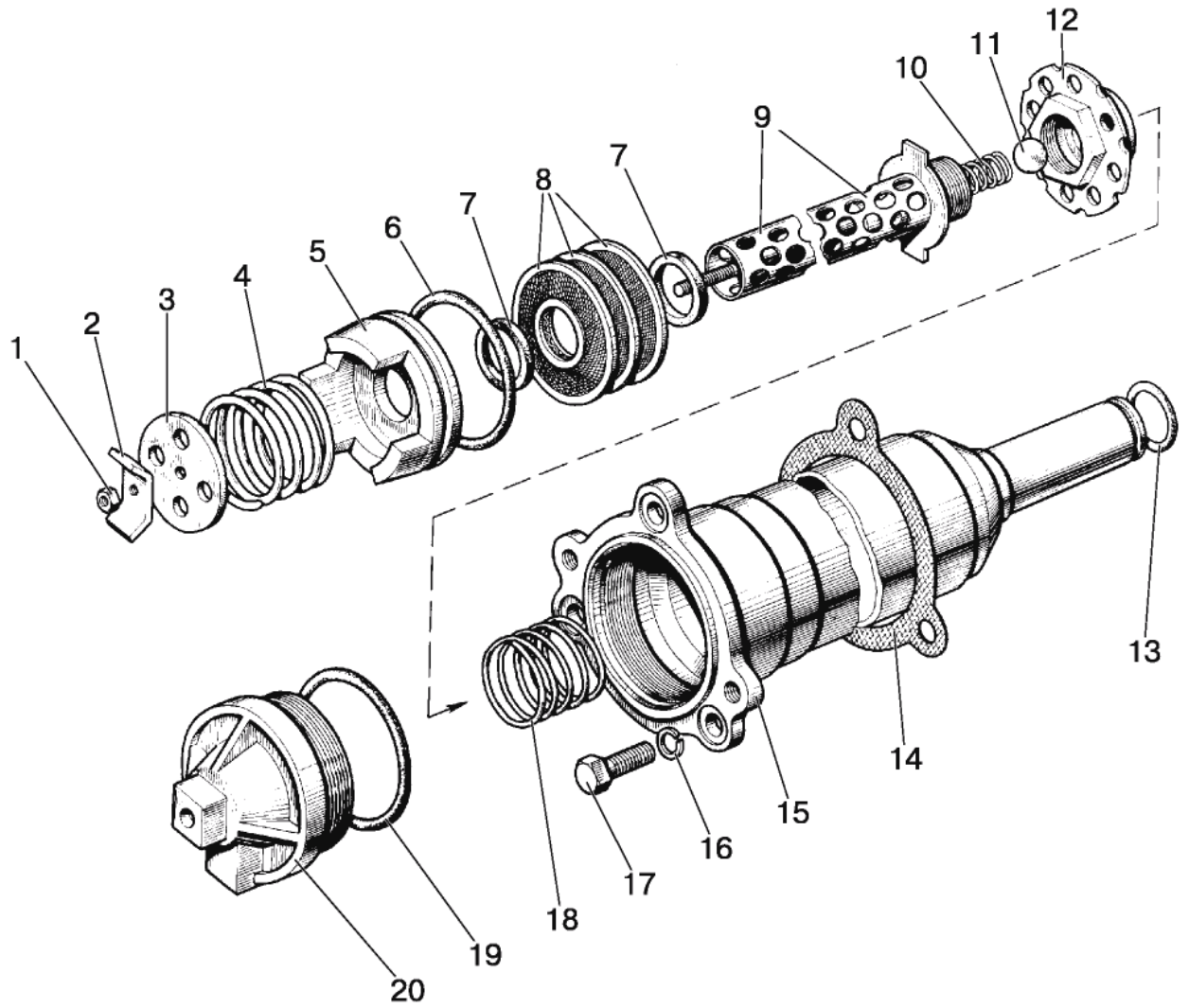


Fig. 17.16. Filter

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

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

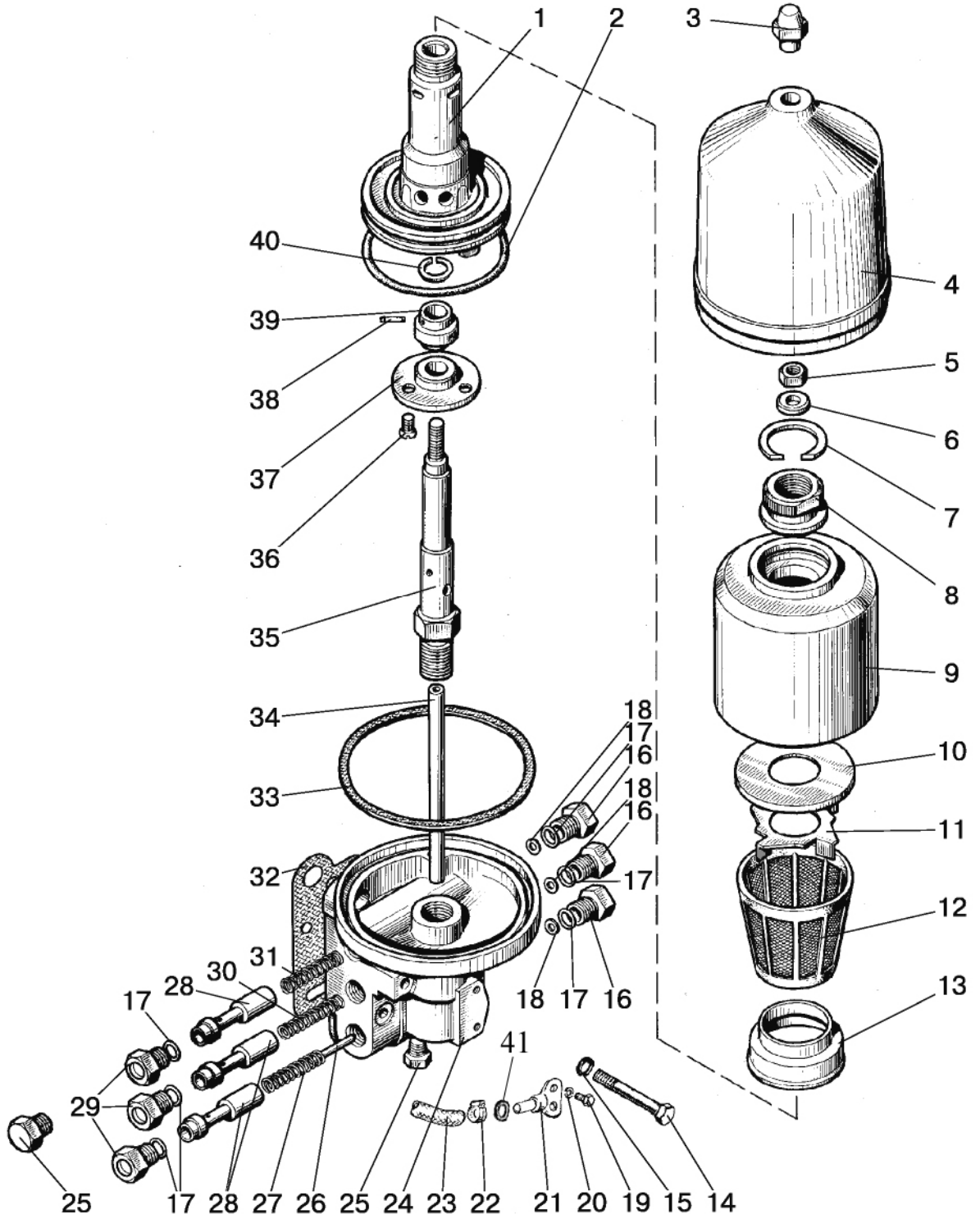


Fig. 17.17. Filter-distributor

Group 17. Gearbox
Subgroup 1737. Filter-distributor

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
17.17		80-1737110	1	Filter-distributor (1-13, 16-18, 24-31, 33-40)
		80-1028020	1	Rotor with axis (1, 2, 5-13, 34-40)
		240-1 404030-A	1	Rotor sleeve (7-9)
		80-1028080	1	Rotor axis (34, 35, 37-40)
		240-1404140	1	Filtering strainer (10, 12)
	1	240-1404017-B	1	Rotor housing
	2	115-120-30-2-1	1	Ring
	3	240-1404088	1	Cap nut
	4	240-1404027	1	Filter cap
	5	M12x1,25	1	Nut
	6	Д37А-1407607-В	1	Thrust washer
	7	240-1404033	1	Thrust ring
	8	240-1 404035-A	1	Special nut
	9	240-1404023	1	Rotor sleeve
	10	240-1404113	1	Cover
	11	240-1404024	1	Rotor impeller
	12	240-1404110	1	Filtering screen
	13	240-1404049	1	Inner cup
	14	M10x70	4	Bolt
	15	ШП 10	4	Washer
	16	50-1404075	3	Valve plug
	17	1221-1737126	6	Washer
	18	ШЧ 5	*	Washer
	19	M8x30	2	Bolt
	20	ШП 8	2	Washer
	21	1221-2401005	1	Tube
	22	16-25	2	Clamp
	23	14x23-16	1	Sleeve L=750 (with hydraulic lift)
		14x23-16	1	Sleeve L=960 (with draft control unit)
	24	80-1737111	1	Housing
	25	КГ 1/8"	4	Plug
	26	6h11x45	1	Pin
	27	70-4801045	1	Spring
	28	80-1737117	3	Valve
	29	1221-1737114	3	Plug
	30	80-1737113	1	Spring
	31	80-1737118	1	Spring
	32	80-1737112	1	Gasket
	33	50-1404059-В1	1	Cap gasket
	34	240-1404013-В	1	Pipe
	35	240-1404012-В	1	Rotor axis
36	ВМ6x14	3	Screw	
37	240-1404019-В	1	Housing cover	
38	2401404028	1	Pin	
39	80-1028090-В	1	Neck	
40	240-1404118	1	Ring	
41	017-022-30-1-4	1	Ring	

* Optional

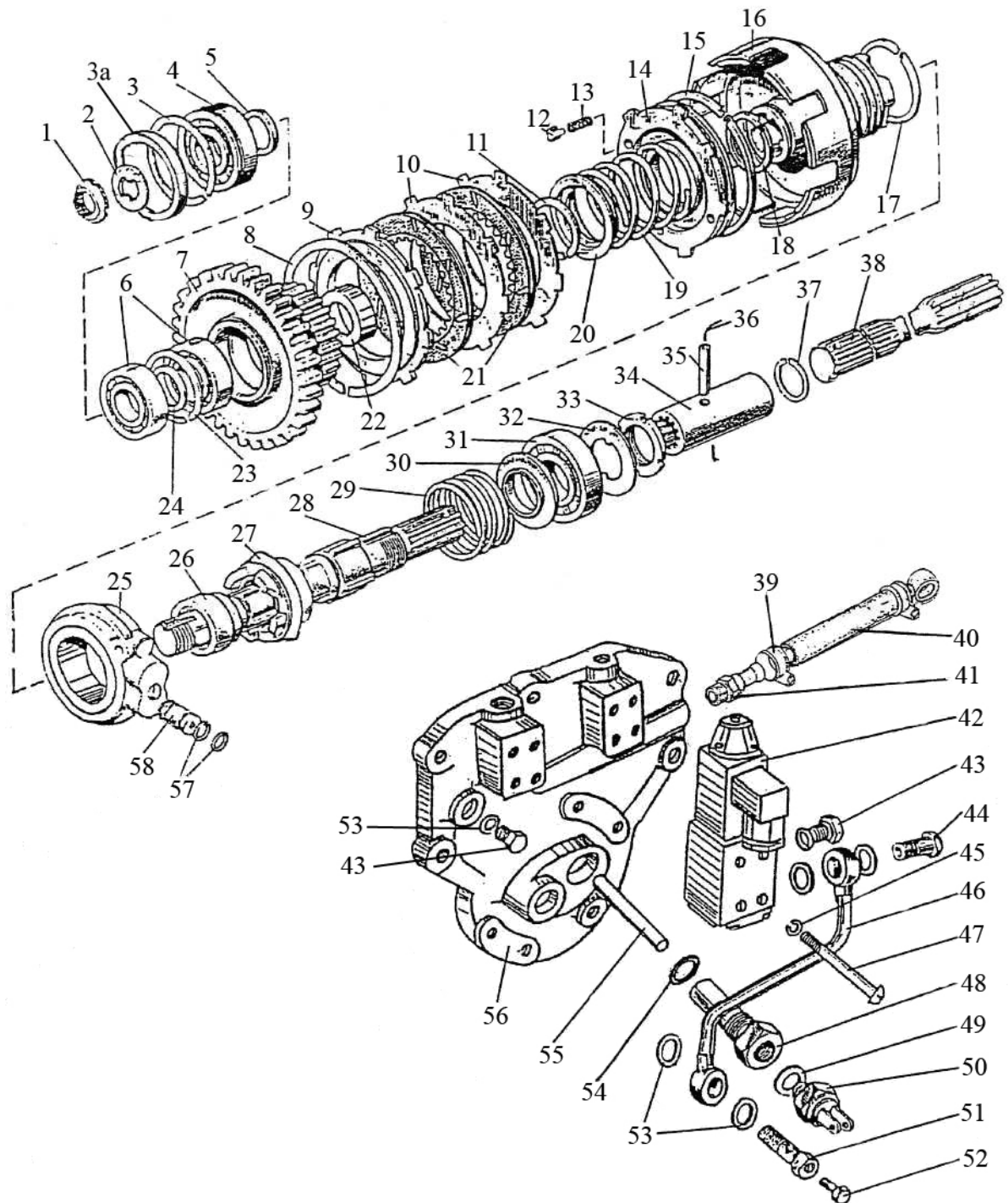


Fig. 18.1. Front axle drive

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description	
18.1		1221-1802030	1	Friction (1221-1802040, 8-22, 25)	
		1221-1802040	1	Gear (6, 7, 23, 24)	
		1221-1802065-B	1	Shaft (28, 30-36)	
		1221-1802070	1	Shaft (37, 38)	
		1	1221-1802023	1	Nut
		2	1221-1802019	1	Washer
		3	72	1	Ring ГОСТ 2893-82
		3a	86-1802024-A	1	Bushing
		4	6-50306K	1	Bearing
		5	86-1802043	1	Bushing
		6	206A	2	Bearing ГОСТ 8338-75
		7	1221-1802041	1	Gear
		8	C135	1	Ring ГОСТ 13941-86
		9	86-1802034	1	Thrust disk
		10	86-1802032*	3-4	Driven disk S=1,8 mm
			1221-1802032*	3-4	Driven disk S=2 mm
		11	C48	1	Ring ГОСТ 13940-86
		12	86-1802039	2	Guide
		13	86-1802048	2	Spring
		14	1221-1802031	1	Piston
		15	86-1802047	1	Ring
		16	1221-1802036	1	Drum
		17	86-1802083-A	2	Ring
		18	1221-1802333	1	Ring
		19	86-1802038	1	Spring
		20	86-1802046	1	Sleeve
		21	86-1802035-A	7	Driving disk
		22	1221-1802044	1	Bushing
		23	C62	1	Ring ГОСТ 13943-86
		24	86-1802049	1	Ring
		25	1221-1802025	1	Casing
		26	86-1802028	1	Bushing
		27	8020-1802026	1	Half-coupling
		28	1221-1802013-B	1	Shaft
		29	86-1802027	1	Spring
		30	86-1802051	1	Washer
		31	207	1	Bearing ГОСТ 8338-75
		32	86-1802052	1	Washer
		33	52-2308097	1	Nut
		34	86-1802014-B	1	Bushing
		35	A.8x40.65Г	1	Pin ГОСТ 14229-93
		36	1,6-0-C	1	Wire L=140 mm
		37	86-1802017-B	1	Ring
	38	1221-1802042	1	Shaft	
	39	12-20/9 C6W	1	Clamp "Norma"	
	40	1221-1802060-B	1	Pipeline	
	41	85-3407470	1	Union	
	42	RH 06101-012/00GA-AMP	1	Hydraulic distributor TY 213.201.011-98	
	43	1221-1802091	3	Threaded plug	

ГОСТ – Government Standard (GOST)/State Standard; TY – Technical Specifications

* Selection

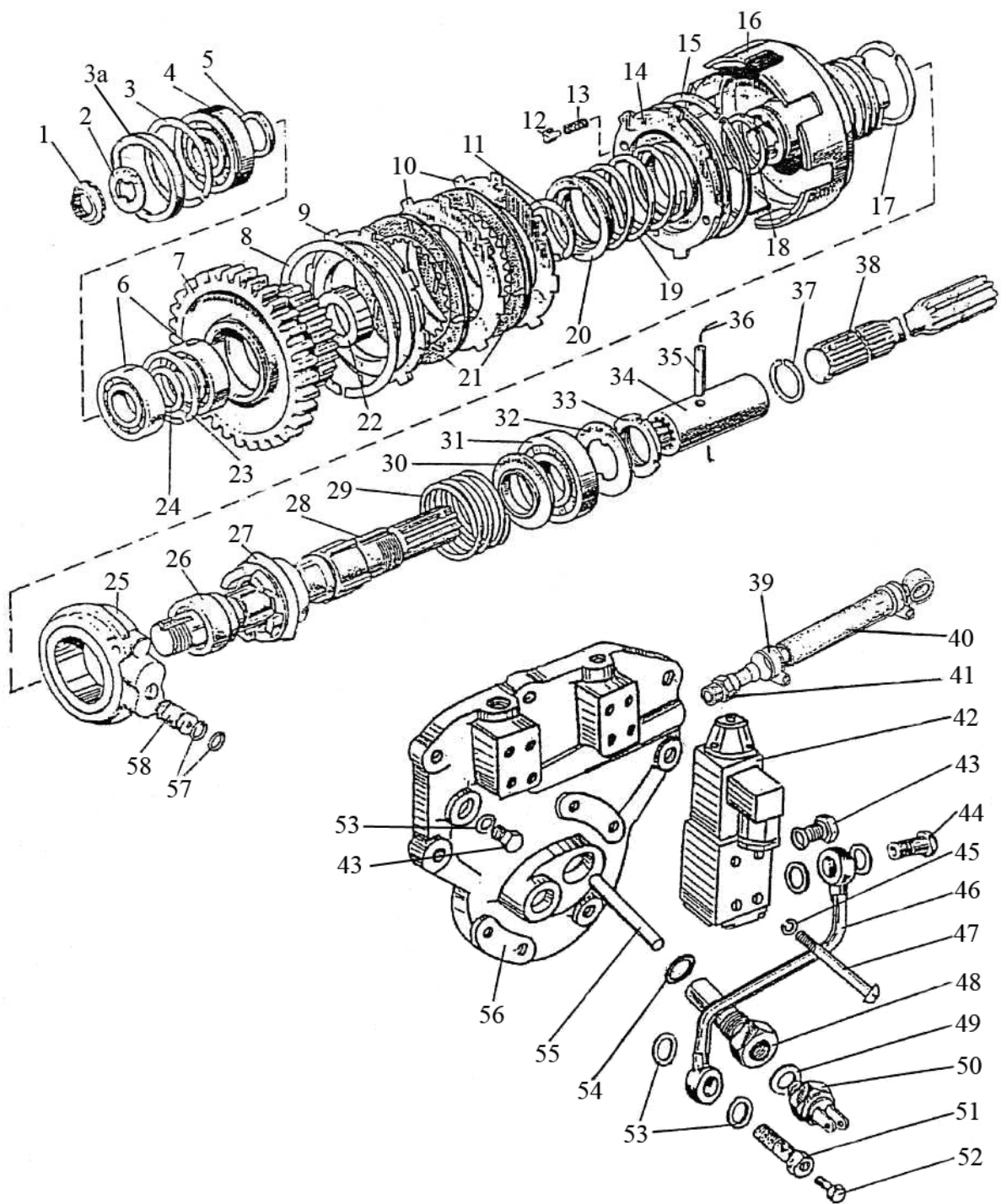


Fig. 18.1. Front axle drive

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
18.1	44	Д18-051	1	Bolt
	45	5Т	8	Washer OCT 37.001.115-75
	46	1221-1802050	1	Pipeline
	47	В.М5х50-6gx50.58.019	8	Screw ГОСТ 17473-80
	48	8020-1802018	1	Guide
	49	50-1702048*	6 (max)	Gasket
	50	БК 12-51	1	Switch
	51	1520-1802088	1	Bolt
	52	КГ 1/8".А12.019	1	Plug ТУ 23.1.506-91
	53	Д18-055-А	7	Seal ring
	54	019-022-19-2-2	1	Ring ГОСТ 18829-73/ГОСТ 9833-73
	55	8020-1802029	1	Tappet
	56	1221-1802016	1	Cover
	57	011-016-30-2-4	2	Ring ГОСТ 18829-73/ГОСТ 9833-73
	58	1221-1802054	1	Bushing
	59	86-1802088	1	Elbow
60	86-1802055	1	Pipeline	

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;
ТУ – Technical Specifications

* Selection

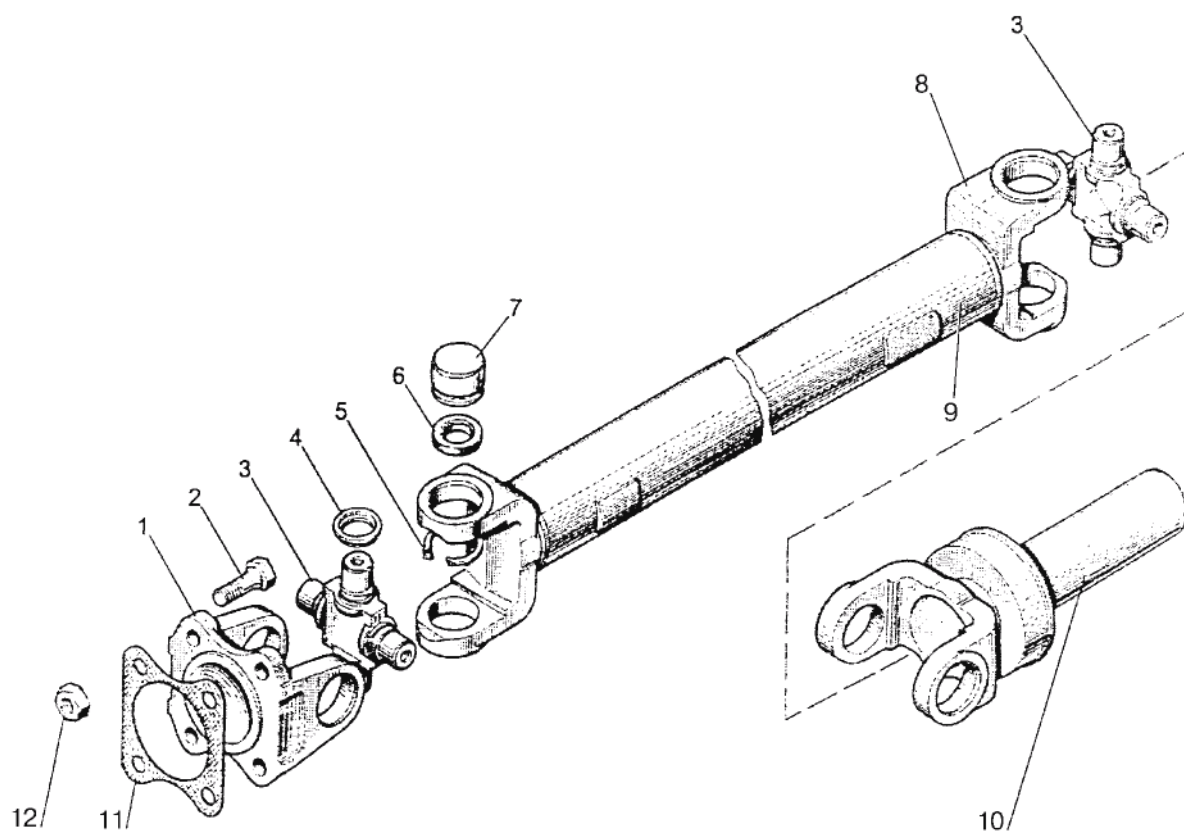


Fig. 22.1. Cardan drive

Group 22. Cardan drive
Subgroup 2203. Cardan drive

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
22.1		112-2203010	1	Cardan shaft (1, 3-10)
		72-2203025PH	2	Cross with bearings (3, 4, 6, 7)
	1	72-2203023	1	Flange
	2	52-2203012	4	Bolt
	3	72-2203030-01	1	Cross
	4	3102-2201037	4	Buffle plate
	5	72-2203043	4	Lock ring
	6	69-2201 031-A	4	Collar
	7	704702K3C10	4	Bearing
	8	72-2203022	2	Fork
	9	112-2203018	1	Pipe
	10	86-2203047	1	Slide fork
11	20-2201024	1	Gasket	
12	M10x1-8 DIN EN	4	Nut ISO 10511-98	

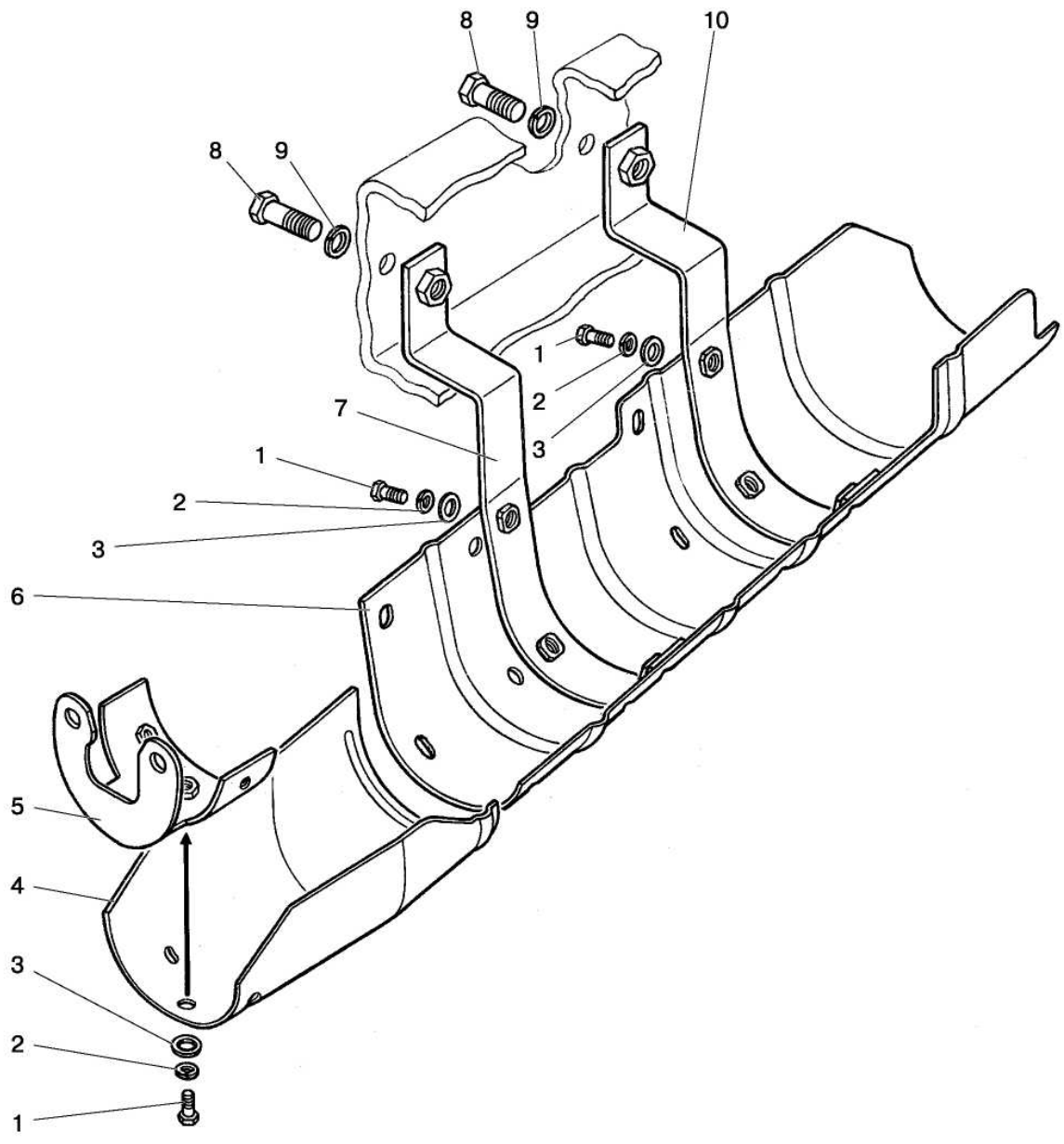


Fig. 22.2. Guard

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
22.2	1	M8-6gx20.88.35.019	9	Bolt ГОСТ 7796-70
	2	8T	9	Washer OCT 37.001.115-75
	3	C 8.01.019	9	Washer ГОСТ 11371-78
	4	52-2210012-A	1	Casing
	5	52-2210015	1	Bracket
	6	1025-2210013	1	Casing
	7	1025-2210015	1	Bracket
	8	M16-6gx40.88.35.019	2	Bolt ГОСТ 7796-70
	9	16 OT	2	Washer OCT 37.001.115-75
	10	1025-2210010	1	Bracket

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

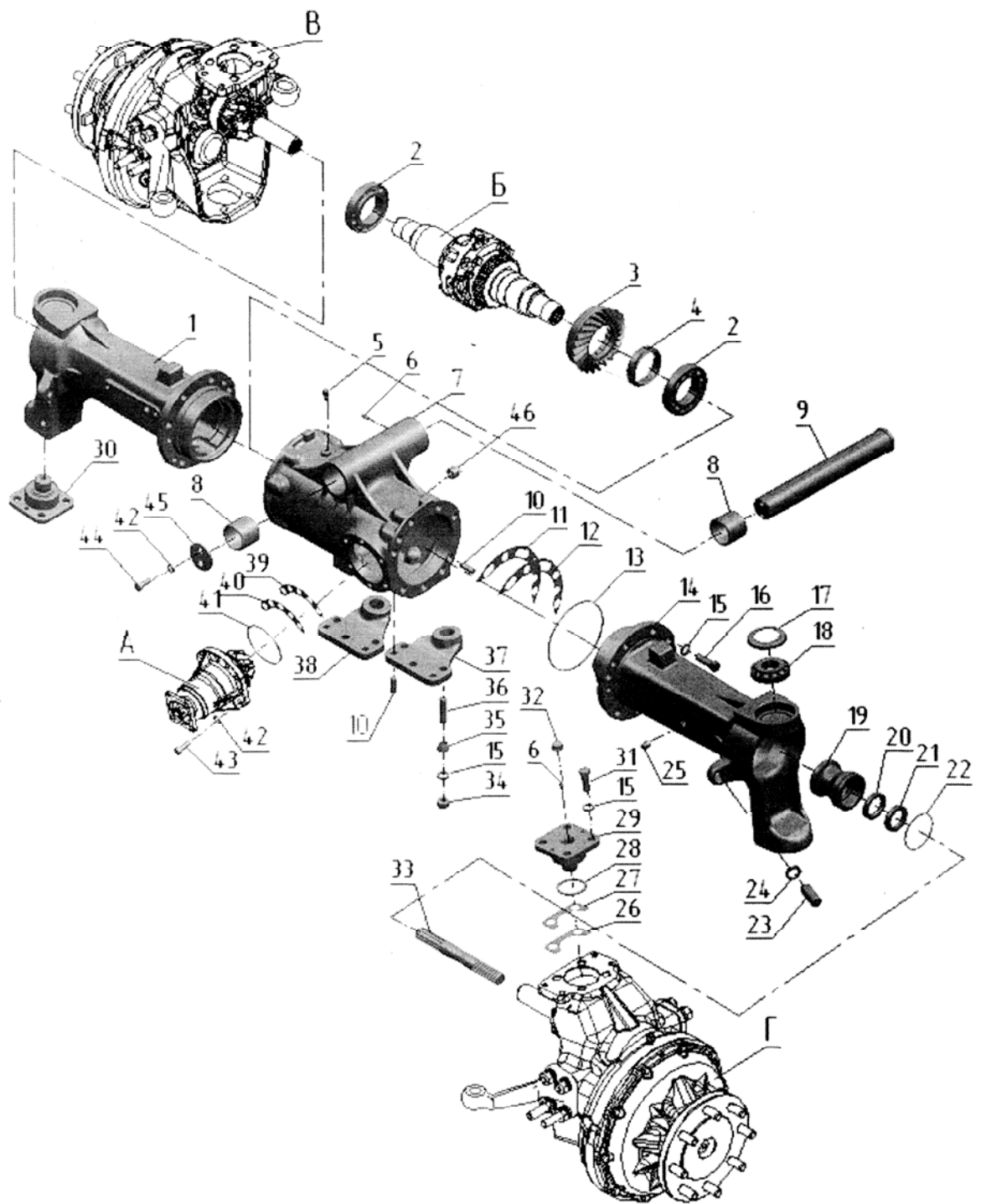


Fig. 23.1. Front driving axle

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
23.1		1222-2300020	1	Assembled front driving axle (for RDA with U=23,429)
		1222-2300020-05	1	Assembled front driving axle (for RDA with U=27,336)
	A	52-2302010	1	Gear (see fig. 23.2)
	Б	52-2303010-Б-01	1	Differential (see fig. 23.3)
	B	822-2308005-02* 822-2308005-06**	1	Left wheel-hub drive (see fig.23.4)
	Г	822-2308005-03* 822-2308005-07**	1	Right wheel-hub drive (see fig.23.4)
	1	822-2301051-01	1	Left sleeve
	2	263212A	2	Bearing ТУ ПБ 00234873.002-97
	3	52-2302019	1	Gear
	4	52-2302038-A1	1	Nut
	5	«MINTOR»TSS0G-1/8"	1	Breather
	6	1.3.Ц9.xp	1	Oiler ГОСТ 19853-74
	7	1420-2301054	1	Housing
	8	1222-3000012	1	Pivot pin
	9	40-3001022	2	Bushing
	10	Д01-015	8	Adjusting pin
	11	52-2303027	16(max)	Shim B=0,5 mm
	12	52-2303028	16(max)	Shim B=0,2 mm
	13	150-156-36-1-4	2	Ring ГОСТ 18829-73/ГОСТ9833-73
	14	822-2301053-01	1	Right sleeve
	15	16 ОТ	36	Washer OCT 37.001.115-75
	16	M16-6gx45.88.35.019	14	ГОСТ 7796-70
	17	1520-2308039	4	Sleeve
	18	1027307A(31307)	4	Bearing ГОСТ 27365-87
	19	822-2308100	2	Casing
	20	1.2-38x58-1	2	Collar ГОСТ 8752-79/OCT 3805146-78
	21	2.2-38x58-1	2	Collar ГОСТ 8752-79/OCT 3805146-78
	22	075-080-30-1-4	2	Ring ГОСТ 18829-73/ГОСТ 9833-73
	23	1520-2308009	2	Screw
	24	85-3407113	2	Nut
	25	ПК КГ 3/8"	2	Plug
	26	52-2302021	6(max)	Shim B=0,5 mm
	27	52-2302022	10(max)	Shim B=0,2 mm
	28	055-063-46-1-4	4	Ring ГОСТ 18829-73/ГОСТ 9833-73
	29	1520-2308037	3	Axis
	30	1520-2308037-01	1	Axis
	31	M16-6gx40.88.35.019	16	Bolt ГОСТ 7796-70
	32	85-4607447	4	Cap
	33	822-2308065-01	2	Shaft
	34	M16-6H.6.019	6	Nut ГОСТ 5915-70
35	1520-2308077	6	Bushing	
36	1520-2308079	6	Stud	
37	1222-2301021-Б	1	Right bracket	
38	1222-2301022-Б	1	Left bracket	
39	1520-2308042	8(max)	Shim B=0,2 mm	
40	1520-2308042-01	20(max)	Shim B=0,5 mm	

* For FDA 1222-2300020

** For FDA 1222-2300020-05

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;
ТУ ПБ – Technical Specifications of the Republic of Belarus;

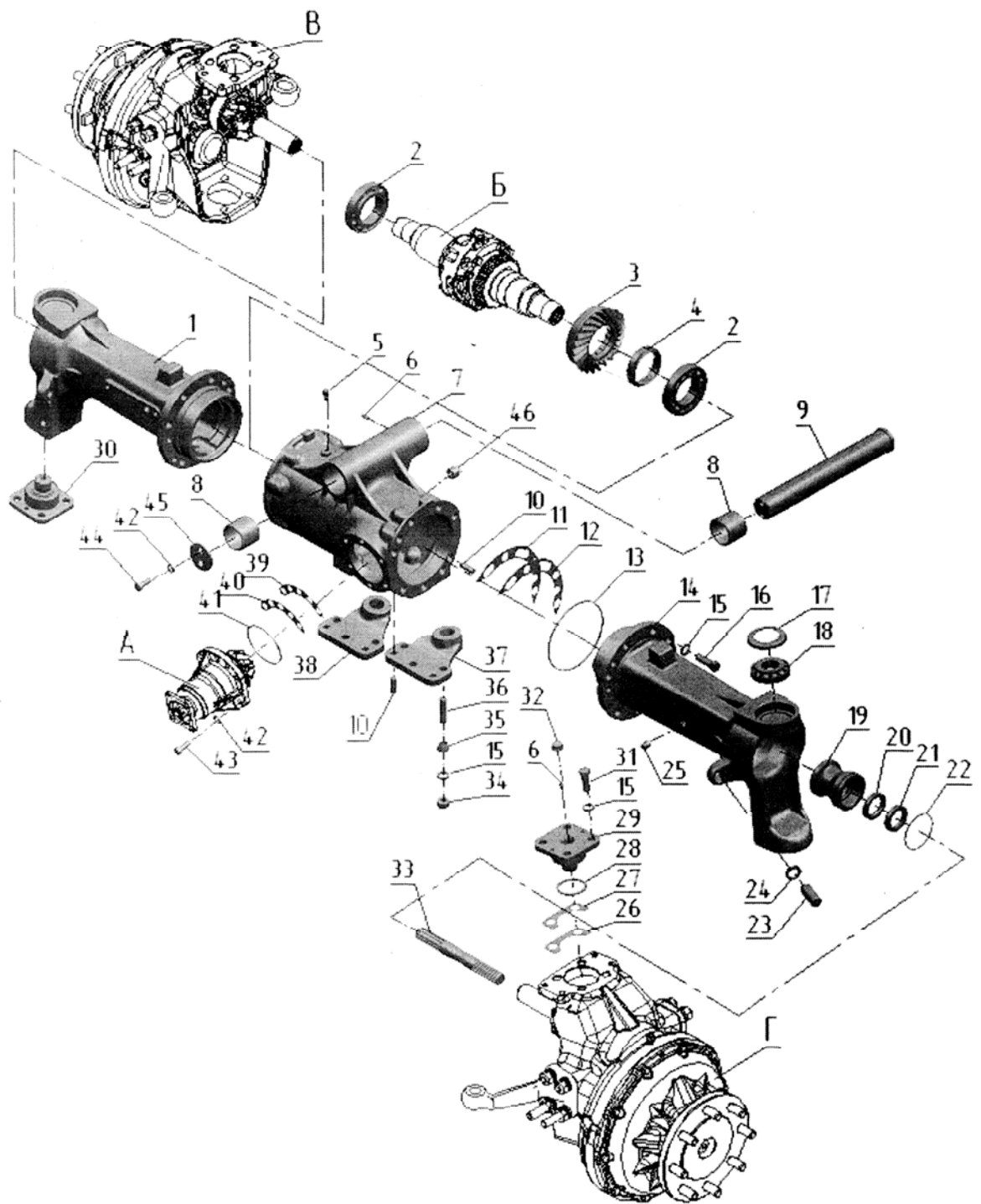


Fig. 23.1. Front driving axle

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

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

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

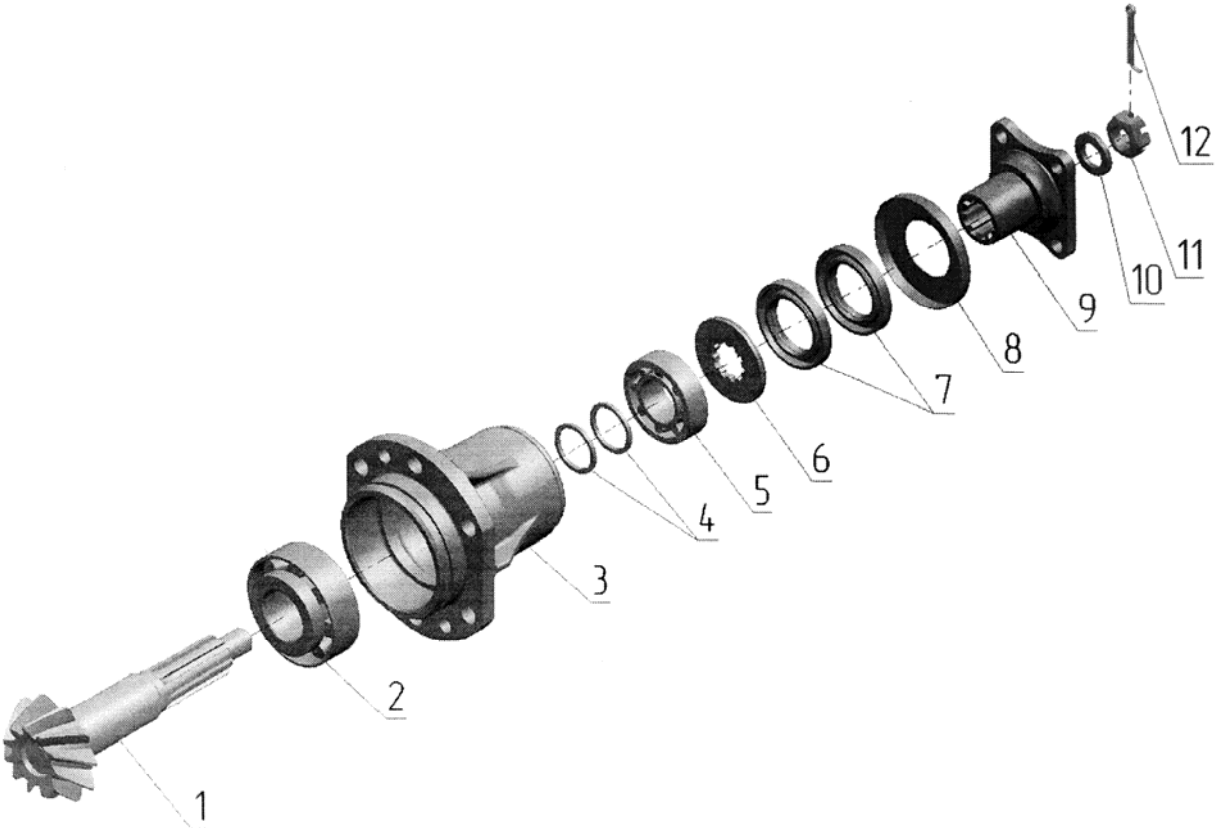


Fig. 23.2 Gear

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description	
23.2		52-2302010-P	1	Gears set (1-12, 3 (Fig. 23.1))	
		52-2302030	1	Driven and driving gear as one set (1,3 (Fig. 23.1))	
	1	52-2302015-A	1	Driving gear	
	2	7607A or 6-7607AY	1	Bearing ГOCT 27365-87	
	3	52-2302016-A	1	Sleeve	
	4		52-2302026	2*	Adjusting washer B=2,65 mm (a)
			52-2302026-01	2*	Adjusting washer B=2,70 mm (b)
			52-2302026-02	2*	Adjusting washer B=2,75 mm (c)
			52-2302026-03	2*	Adjusting washer B=2,90 mm (d)
			52-2302026-04	2*	Adjusting washer B=3,05 mm (e)
			52-2302026-05	2*	Adjusting washer B=3,20 mm (f)
			52-2302026-06	2*	Adjusting washer B=3,30 mm (g)
			52-2302026-07	2*	Adjusting washer B=3,35 mm (h)
		52-2302026-08	2*	Adjusting washer B=3,40 mm (i)	
	5	7506A	1	Bearing ГOCT 27365-87	
	6	52-2302018	1	Ring	
7	2.2-38x62-1/4	2	Collar ГOCT 8752-79/ OCT 3805146-78		
8	82-2302031	1	Blind plug		
9	52-1802078-A	1	Flange		
10	52-1802079	1	Washer		
11	70-3003032	1	Nut		
12	4x25.019	1	Cotter pin ГOCT 397-79		

* Selected by bearings adjustment

ГOCT – Government Standard (GOST)/State Standard;

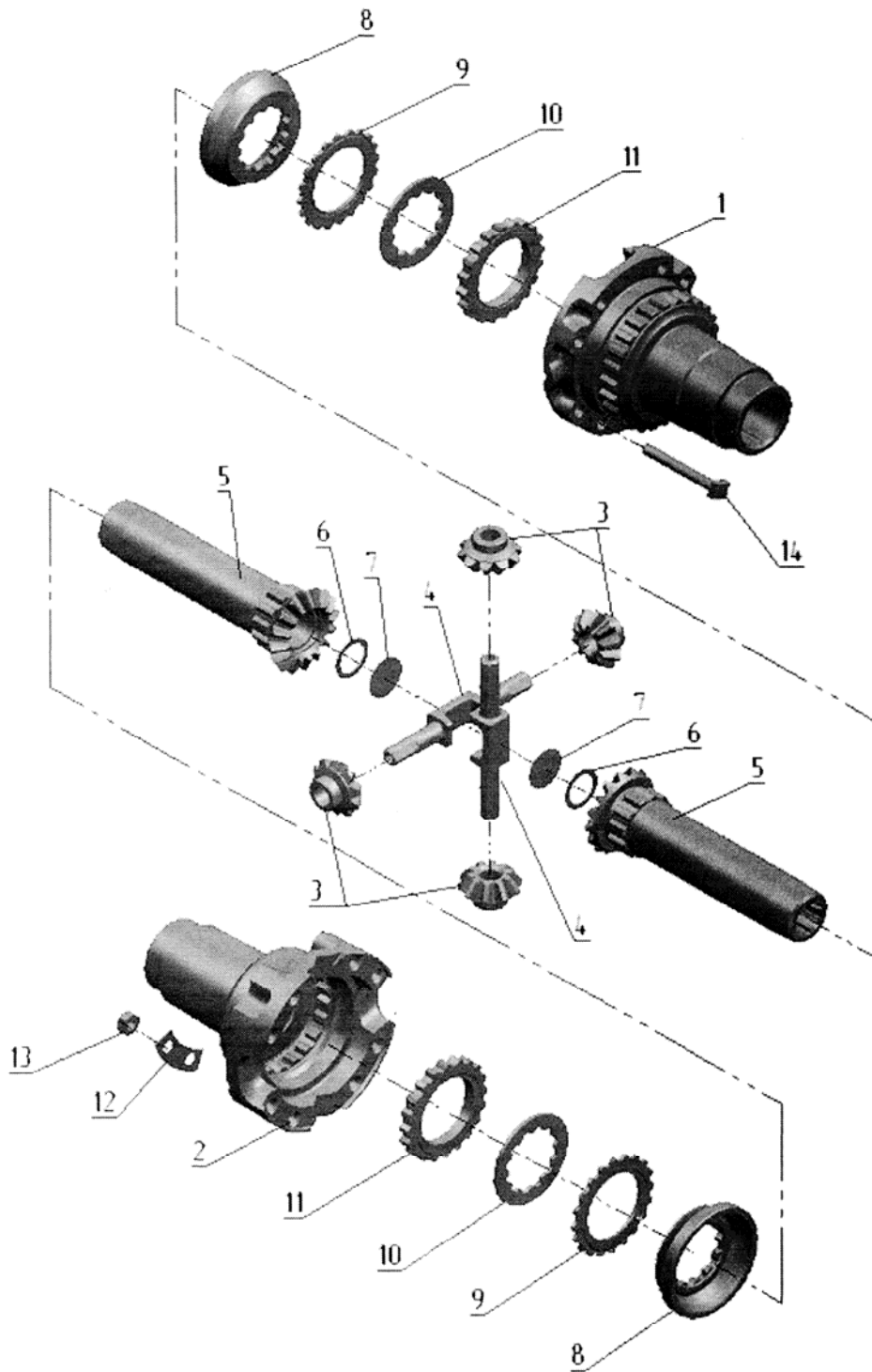


Fig. 23.3 Differential.

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

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

1

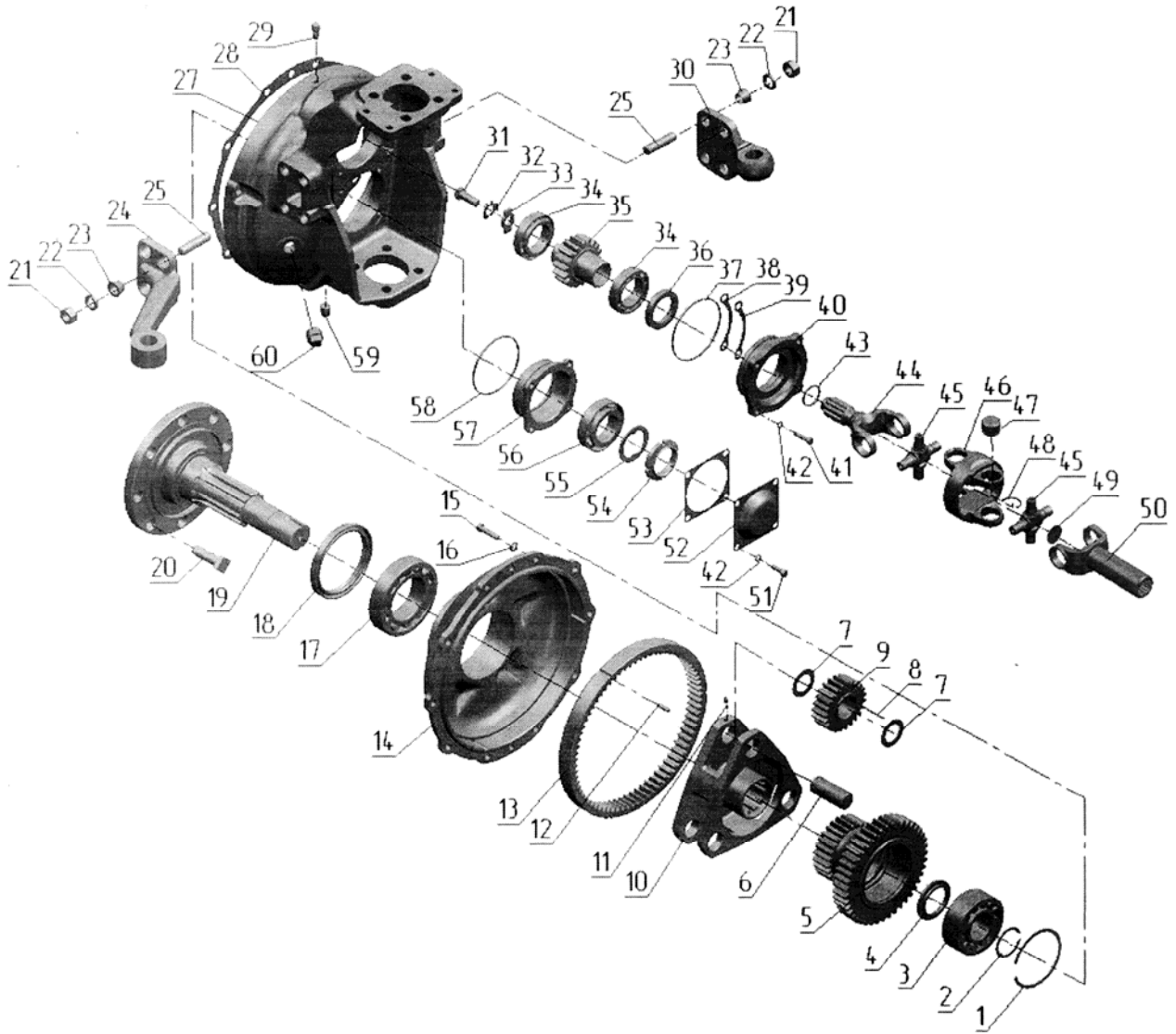


Fig. 23.4 Wheel-hub drive

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
23.4		822-2308005-06** 822-2308005-02*	1	Wheel hub-drive (1-60)
		822-2308005-07** 822-2308005-03*	1	Wheel hub-drive (1-60)
		1520-2308024-20A	2	Twin hinge (43-50)
		1520-2308040-05** 1520-2308040*	2	Housing (27, 29, 31-50)
		1520-2308080	2	Sleeve (36, 37 40)
		1521-2308020	2	Cover (12-14)
		1521-2308030	2	Carrier (6-11)
		1521-2308050-05** 1521-2308050*	2	Hub (1-20)
	1	2C100	2	Ring ГОСТ 13941-86
	2	C45	2	Ring ГОСТ 13940-86
	3	53609	2	Bearing ГОСТ 24696-81
	4	1520-2308038	2	Ring
	5	1520-2308062-05** 1520-2308062*	2	Gears set Z=40 Gears set Z=44
	6	1520-2308053	6	Axis
	7	1520-2308054	12	Washer
	8	4x34,8A3	156	Roller ГОСТ 6870-81
	9	1520-2308059	6	Satellite gear
	10	1521-2308056	2	Carrier
	11	1520-2308011	6	Screw
	12	2.8x25	6	Pin ГОСТ 3128-70
	13	1520-2308064	2	Gear
	14	1521-2308016	2	Cover
	15	M10-6gx35.88.019	20	Bolt ГОСТ 7796-70
	16	16 OT	20	Washer OCT 37.001.115-75
	17	7514A	2	Bearing ГОСТ 27365-87
	18	2.2-100x125-1	2	Collar ГОСТ 8752-79/OCT3805146-78
	19	1521-2308017	2	Flange
	20	40-3103016	16	Front wheel bolt
	21	M16-6H.6.019	16	Nut ГОСТ 5915-70
	22	16 OT	16	Washer OCT 37.001.115-75
	23	1520-2308077	12	Bushing
	24	1520-2308074	1	Left lever
		1520-2308074-01	1	Right lever
	25	1520-2308079	16	Stud
	27	1520-2308015	2	Housing
28	1520-2308034	2	Gasket	
29	«MINTOR» TSS0G-1/8"	2	Breather	
30	1222-2308076	1	Right bracket	
	1222-2308077	1	Left bracket	
31	1521-2308012	2	Bolt	
32	1521-2308031	2	Lock plate	
33	1521-2308013	2	Washer	
34	2007109	4	Bearing ГОСТ 27365-87	
35	1520-2308061-05**	2	Gear Z=14	
	1520-2308061*		Gear Z=17	

** For FDA 1222-2300020-05

* For FDA 1222-2300020

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

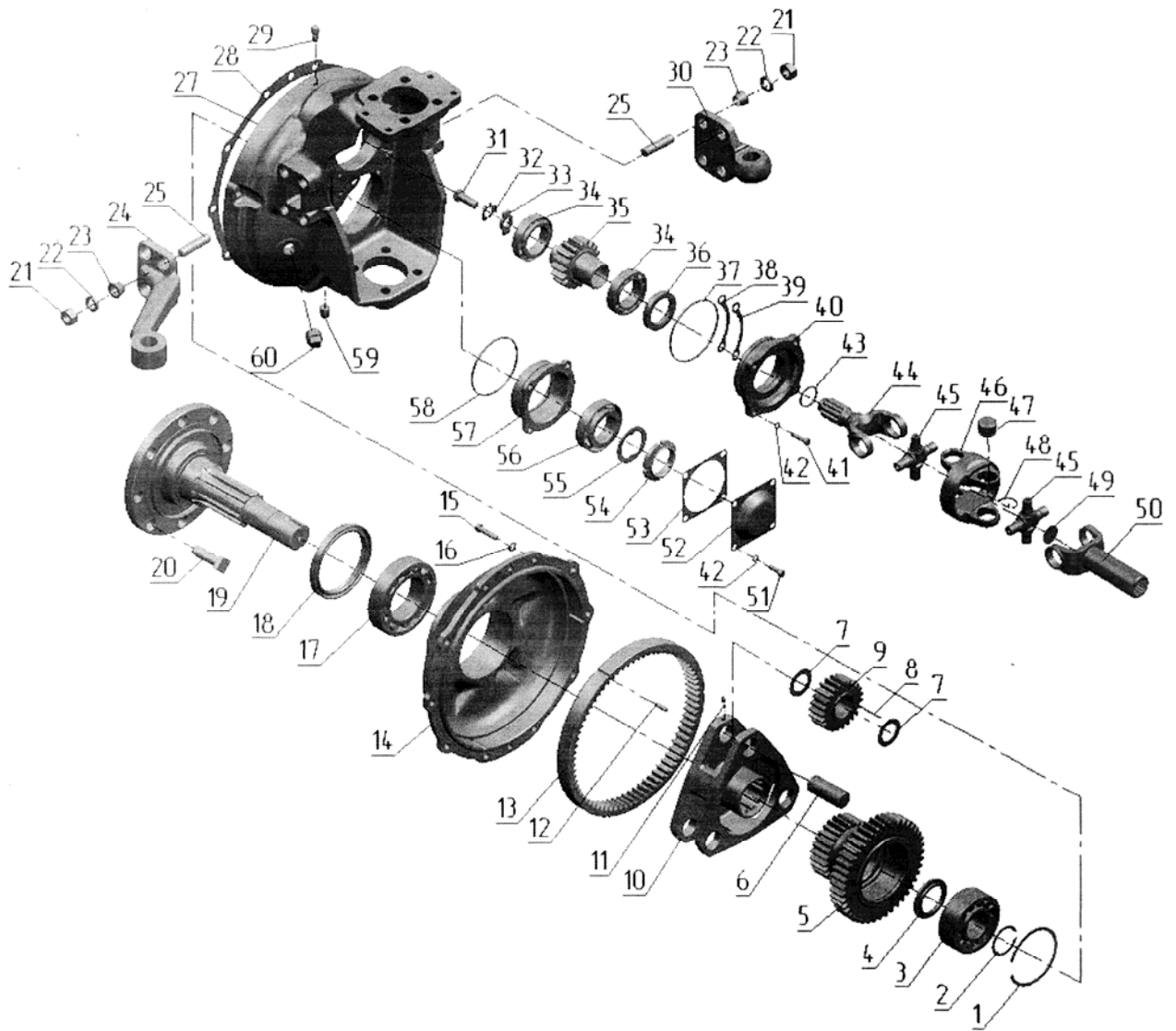


Fig. 23.4 Wheel-hub drive

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
23.4	36	2.2-45x65-1	2	Collar ГОСТ 8752-79/ОСТ 3805146-78
	37	100-105-30-2-4	2	Ring ГОСТ 18829-73/ГОСТ 9833-73
	38	1520-2308021	20(max)	Shim
	39	1520-2308021-01	8(max)	Shim
	40	1520-2308035	2	Sleeve
	41	M8-6gx30.88.35.019	8	Bolt ГОСТ 7796-70
	42	8T	16	Washer ОСТ 37.001.115-75
	43	032-036-25-2-4	2	Ring ГОСТ 18829-73/ГОСТ 9833-73
	44	1520-2308063-10	2	Fork
	45	72-2203026-11	4	Cross
	46	1520-2308066-01	2	Twinge hinge fork
	47	704702K3C10	16	Bearing
	48	34-2201043-01	16(max)	Lock ring
		34-2201043-10	16(max)	Lock ring
		34-2201043-20	16(max)	Lock ring
		34-2201043-30	16(max)	Lock ring
	49	32-10кп.Ц9.xp	2	Blind plug ГОСТ3111-81
	50	1520-2308048	2	Fork
	51	M8-6gx25.88.35.019	8	Bolt ГОСТ 7796-70
	52	1520-2308004	2	Cover
	53	1520-2308003	2	Gasket
	54	80-1701045	2	Nut
	55	80-1701056	2	Washer
	56	7509A	2	Bearing ГОСТ 27365-87
	57	1520-2308002	2	Sleeve
	58	095-100-30-1-4	2	Ring ГОСТ 18829-73/ГОСТ 9833-73
	59	ПК КГ 3/8"	2	Plug
	60	ПК КГ 3/4"	2	Plug

ГОСТ – Government Standard (GOST)/State Standard; ОСТ – industry-specific standard;

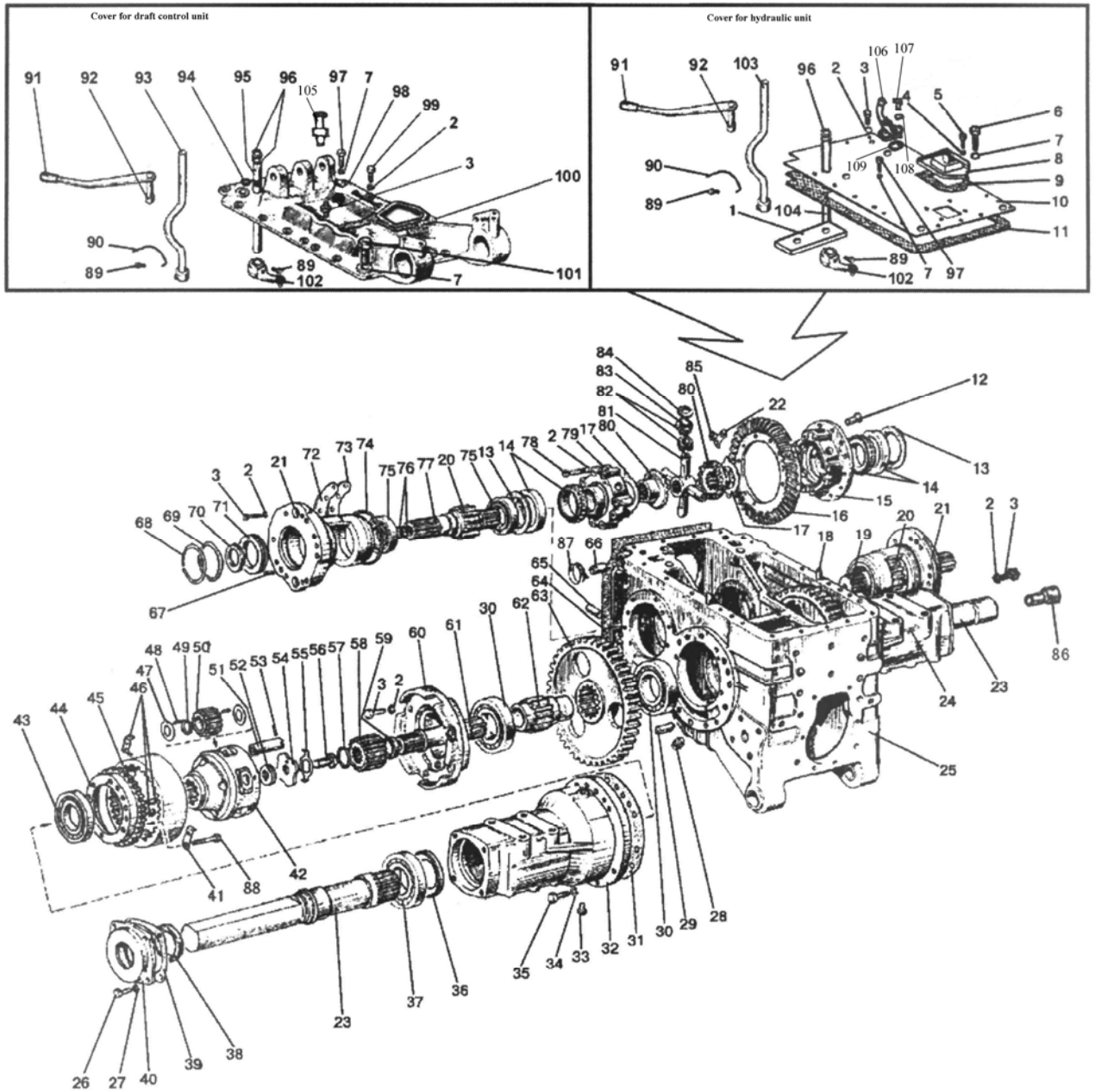


Fig. 24.1. Rear axle. Differential. Final drives

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
24.1		1221-2401010	1	Rear axle (with draft control unit; z=27, Z=54; dry brakes)
		1221M-2401010	1	Rear axle (with draft control unit; z=27, Z=54; "wet" brakes)
		1221-2401010-02	1	Rear axle (with draft control unit; z=24, Z=56; dry brakes)
		1221M-2401010-02	1	Rear axle (with draft control unit; z=24, Z=56; "wet" brakes)
		1221-2401010-01	1	Rear axle (with hydraulic lift; z=27, Z=54; dry brakes)
		1221M-2401010-01	1	Rear axle (with hydraulic lift; z=27, Z=54; "wet" brakes)
		1221-2401010-03	1	Rear axle (with hydraulic lift; z=24, Z=56; dry brakes)
		1221M-2401010-03	1	Rear axle (with hydraulic lift; z=24, Z=56; "wet" brakes)
		1221-2401015	1	Rear axle housing (25, 65, 66, 910) (with draft control unit)
		1221-2401015-01	1	Rear axle housing (25, 65, 66, 910) (with hydraulic lift)
		1522-2403010-A	1	Differential (2, 12, 14, 16, 17, 22, 78, 80-85)
		1522-2403015-02	1	Differential housing (15, 79)
		1221-2407060-02	1	Left sleeve (13, 20, 21, 68-71, 74-77) (z=27, Z=54; dry brakes)
		1221M-2407060	1	Left sleeve (13, 20, 74, 75, 77, 89) (z=27, Z=54; "wet" brakes)
		1521-2407060	1	Left sleeve (13, 14, 20, 21, 74-77) (z=24, Z=56; dry brakes)
		1523M-2407060-02	1	Left sleeve (13, 74, 75, 77, 89) (z=24, Z=56; "wet" brakes)
		1221-2407060-03	1	Right sleeve (13, 19-21, 68-71, 74-76) (z=27, Z=54; dry brakes)
		1221M-2401060-01	1	Right sleeve (13, 19-21, 74, 75) (z=27, Z=54; "wet" brakes)
		1521-2407060-01	1	Right sleeve (13, 19-21, 68-71, 74-76) (z=24, Z=56; dry brakes)
		1523M-2407060-03	1	Right sleeve (13, 19-20, 74, 75) (z=24, Z=56; "wet" brakes)
		1221-2407540	2	Driving gear (57-59, 61)
		1221-2407500	1	Left final drive (23, 26, 27, 29, 32, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (dry brakes)

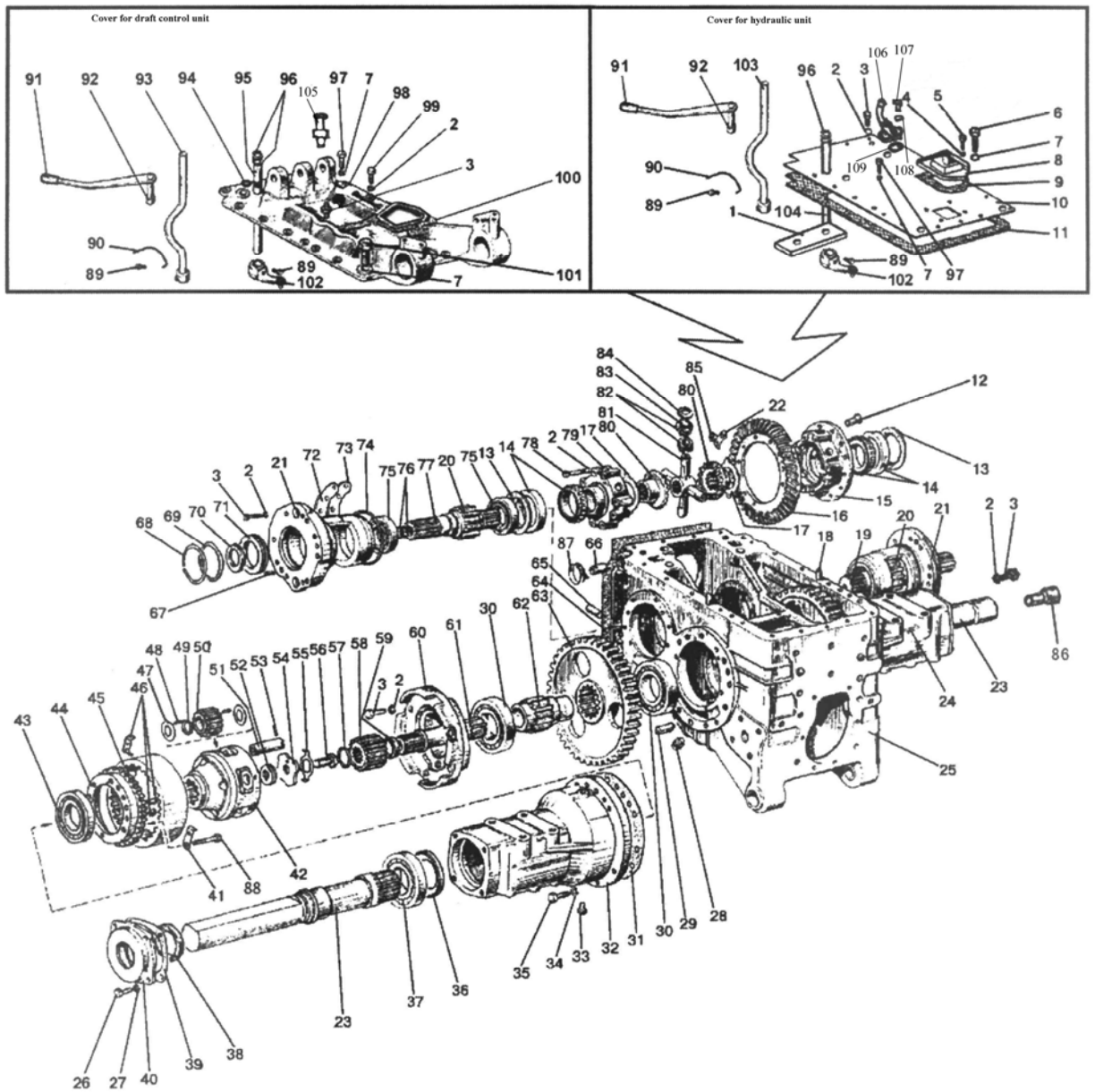


Fig. 24.1. Rear axle. Differential. Final drives

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
24.1		1221-2407500-02	1	Left final drive (23, 26, 27, 29, 32, 33, 36, 37, 39, 41, 43-46, 52, 54-56) ("wet" brakes)
		1221-2407500-01	1	Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (dry brakes)
		1221-2407500-03	1	Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56) ("wet brakes)
		1221-2407035-A1	2	Carrier (42, 47-51, 53)
		1221-2407030	2	Cover (38, 40)
		1221-2407130	2	Sleeve (30, 60)
	1	1221-2401028	1	Gasket
	2	ШП 12	24	Washer (with hydraulic lift)
			17	Washer (with draft control unit)
	3	M12x35	24	Bolt (with hydraulic lift; dry brakes)
				Bolt (with draft control unit; dry brakes)
		80M-2407041	14	Bolt ("wet" brakes)
	4	ШП 8	4	Washer
	5	M8x25	4	Bolt
	6	600-2401026	2	Bolt
	7	ШП 20	4	Washer
	8	1221-2401026	1	Cover
	9	50-2401027-A	1	Gasket
	10	1221-2401024	1	Cover
	11	1221.1-2401025	1	Gasket
	12	50-1702092	12	Templet bolt M12x42
	13	1221-2407043	2	Ring
	14	7216A	2	Bearing
	15	1522-2403018-02	1	Housing
	16	50-2403021-Б	1	Driven gear
	17	1220-2403049	2	Back-up washer
	18	Д01-015	2	Pin
	19	1521-2407053-01	1	Shaft (dry brakes)
1221M-2407053-01		1	Shaft ("wet" brakes)	
20	1221-2407052	2	Gear (z=27, Z=54)	
	1522-2407052	2	Gear (z=24, Z=56)	
21	1221-2407042	2	Bearing sleeve (dry brakes)	
	1221M-2407042-01	1	Right bearing sleeve ("wet" brakes)	
	1221M-2407042	1	Left bearing sleeve ("wet" brakes)	
22	50-2403023	6	Lock plate	
23	1221-2407082	2	Half-axle	
24	1221-2407018-Б-01	1	Half-axle right sleeve (dry brakes)	
	1221M-2407018-01	1	Half-axle right sleeve ("wet" brakes)	
25	1221-2401016	1	Housing	
26	M10x25	8	Bolt	
27	ШП 10	8	Washer	
28	70-1701300	1	Magnetic plug 1 1/4	

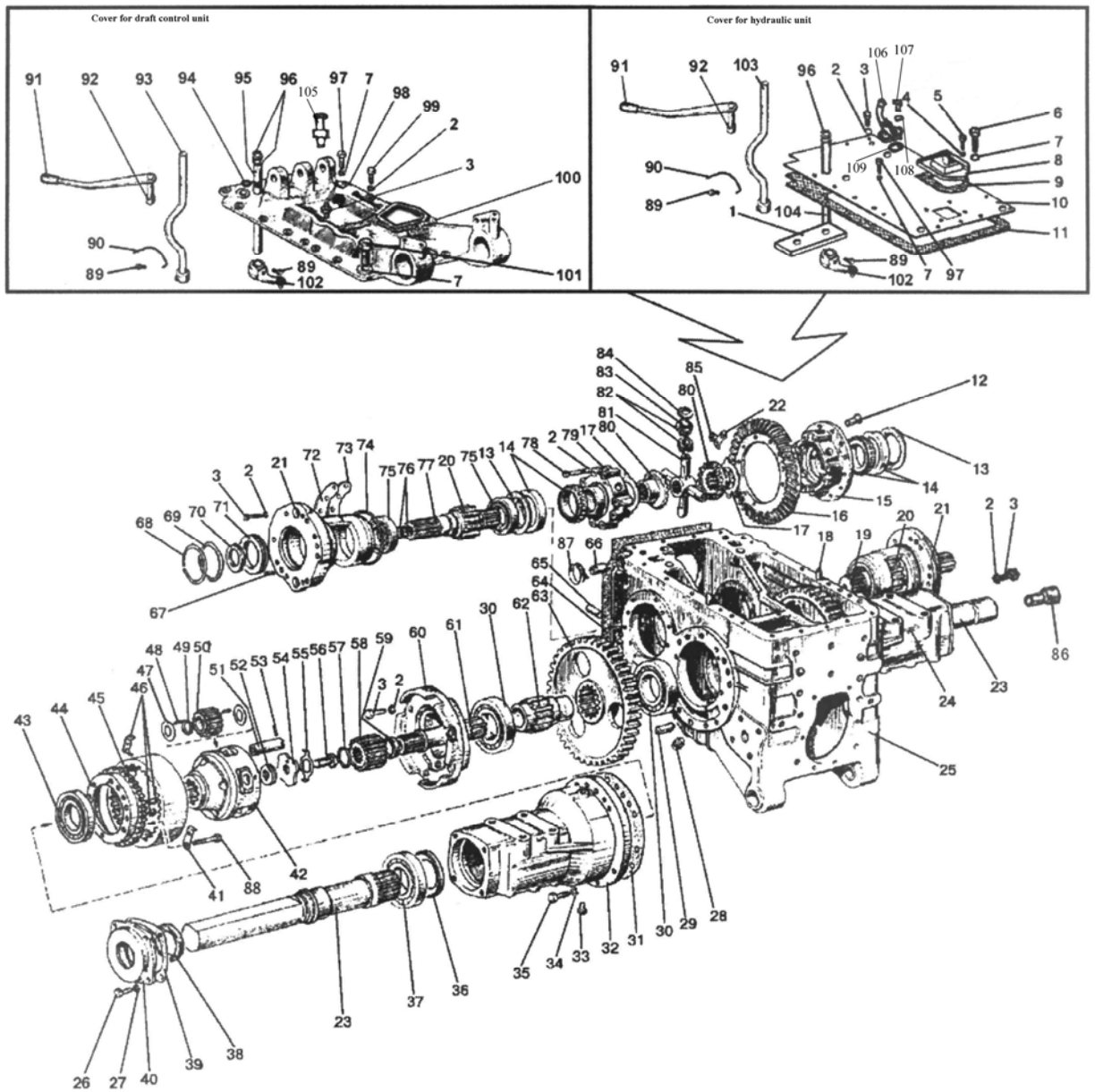


Fig. 24.1. Rear axle. Differential. Final drives

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
24.1	29	1221-2407508-01	4	Pin
	30	217A	4	Bearing
	31	1221-2407552	2	Gasket
	32	1221-2407018-Б 1221M-2407018	1	Half-axle left sleeve (dry brakes) Half-axle left sleeve ("wet" brakes)
	33	КГ 1/8"	2	Plug
	34	ШП 16	22	Washer
	35	M16x60	22	Bolt
	36	142-2407091	2	Ring
	37	7218A	2	Bearing
	38	2.2-90x120-1	2	Collar
	39	1221-2407089	2	Gasket
	40	1221-2407028	2	Cover
	41	1221-2407503-A	4	Plate
	42	1221-2407536-Б	2	Carrier
	43	7217A	2	Bearing
	44	1221-2407502-Б	2	Epicycle hub
	45	5336-2405050-A	2	Driven gear
	46	1221-2407512	4	Pin
		1221-2407504	8	Plate
		54.38.619	4	Ring
	47	1221-2407538	16	Washer of satellite gear
	48	5x27, 8A3	368	Roller
	49	1221-2407539	8	Space washer
	50	5336-2405035-A	8	Satellite gear
	51	1221-2407556-A	8	Axis of satellite gear
	52	1221-2407506	12	Gasket 0,5 mm
		1221-2407506-01	12	Gasket 0,2 mm
	53	A.8x45.65Г	8	Pin
	54	1221-2407537	2	Washer
	55	1221-2407507	2	Washer
	56	70-4605036	2	Bolt
	57	2C55	2	Ring
	58	5336-2405028-A	2	Driving gear
	59	1221-2407542	2	Bushing
	60	1221-2407131	2	Sleeve
	61	1221-2407541	2	Shaft
	62	1221-2407123	2	Bushing
	63	1221-2407122	2	Driven gear (z=27, Z=54)
		1522-2407122	2	Driven gear (z=24, Z=56)
	64	80-2401016	2	Gasket
	65	50-4605027	1	Pin
	66	36-3502037-A	2	Bushing
	67	50-1601352	4	Pin (dry brakes)
		80M-2407039	4	Pin ("wet" brakes)
	68	C125	2	Ring (dry brakes)
	69	115-120-30-1-4	2	Ring (dry brakes)
	70	2.2-52x75-1	2	Collar (dry brakes)
	71	1221-2407081	2	Casing (dry brakes)
	72	1221-2407056	1-8	Gasket 0,5 mm
	73	1221-2407057	1-20	Gasket 0,2 mm
	74	205-210-36-1-4	2	Ring
	75	311A	4	Bearing

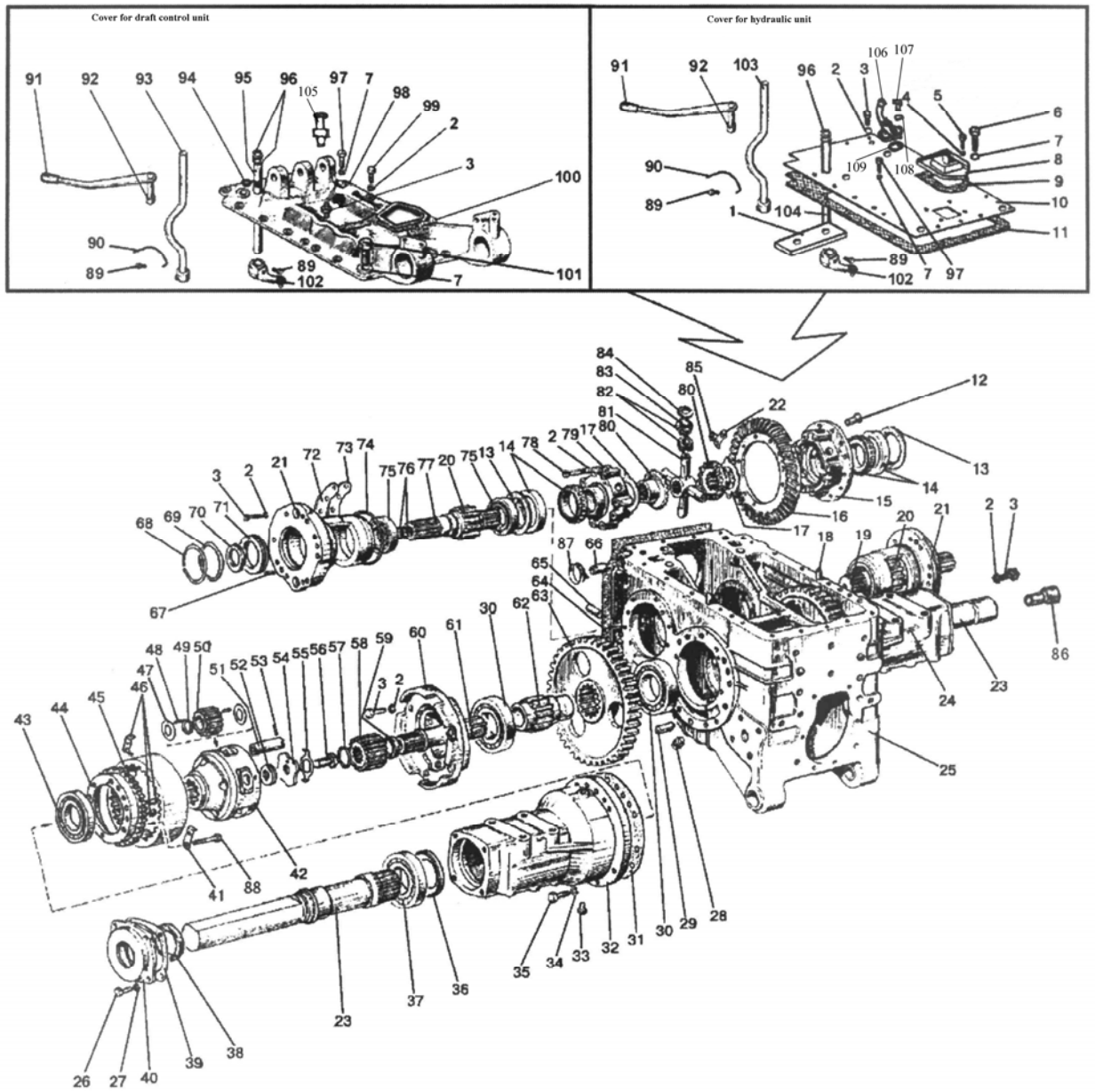


Fig. 24.1. Rear axle. Differential. Final drives ("wet" brakes)

Group 24. Rear axle
Subgroup 2401, 2403, 2407. Rear axle. Differential. Final drives ("wet" brakes)

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
24.1	76	035-040-30-1-4	4	Ring (dry brakes)
	77	1521-2407053	1	Shaft (dry brakes)
		1221M-2407053	1	Shaft ("wet" brakes)
	79	1522-2403019-02	1	Cover
	80	1522-2403048	2	Half-axle gear
	81	1522-2403062-Б	1	Cross
	82	1522-2403057-Б	4	Satellite gear
	83	4x29,8A3	100	Roller
	84	1522-2403025-Б	4	Washer of satellite gear
	85	M12	12	Nut
	86	50-4216024	1	Bushing
	87	2.2-25x42-1	2	Collar
	88	1221-2407505	24	Bolt
	89	36-1702110	1	Screw
	90	1,6-O-C	1	Wire (200 mm)
	91	36-1310139	1	Ball
	92	85-2401081	1	Rod
	93	85-2401050	1	Lever
	94	020-025-30-1-4	1	Ring
	95	50-2401019-Б	1	Shaft
	96	50-2401031	2	Washer
	97	M20x50	2	Bolt
	98	85-2401024	1	Cover
	99	M12x40	4	Bolt
	100	85-4616031	1	Gasket
	101	1221-2409029	2	Bolt
	102	50-2401020	1	Shifter arm
	103	74-2401050	1	Lever
	104	1221-2401019	1	Shaft
	105	1221-2401060	1	Union
106	1221-2400030	1	Tube	
107	M8x30	2	Bolt	
108	ШП 8	2	Washer	
108	017-022-30-1-4	1	Ring	

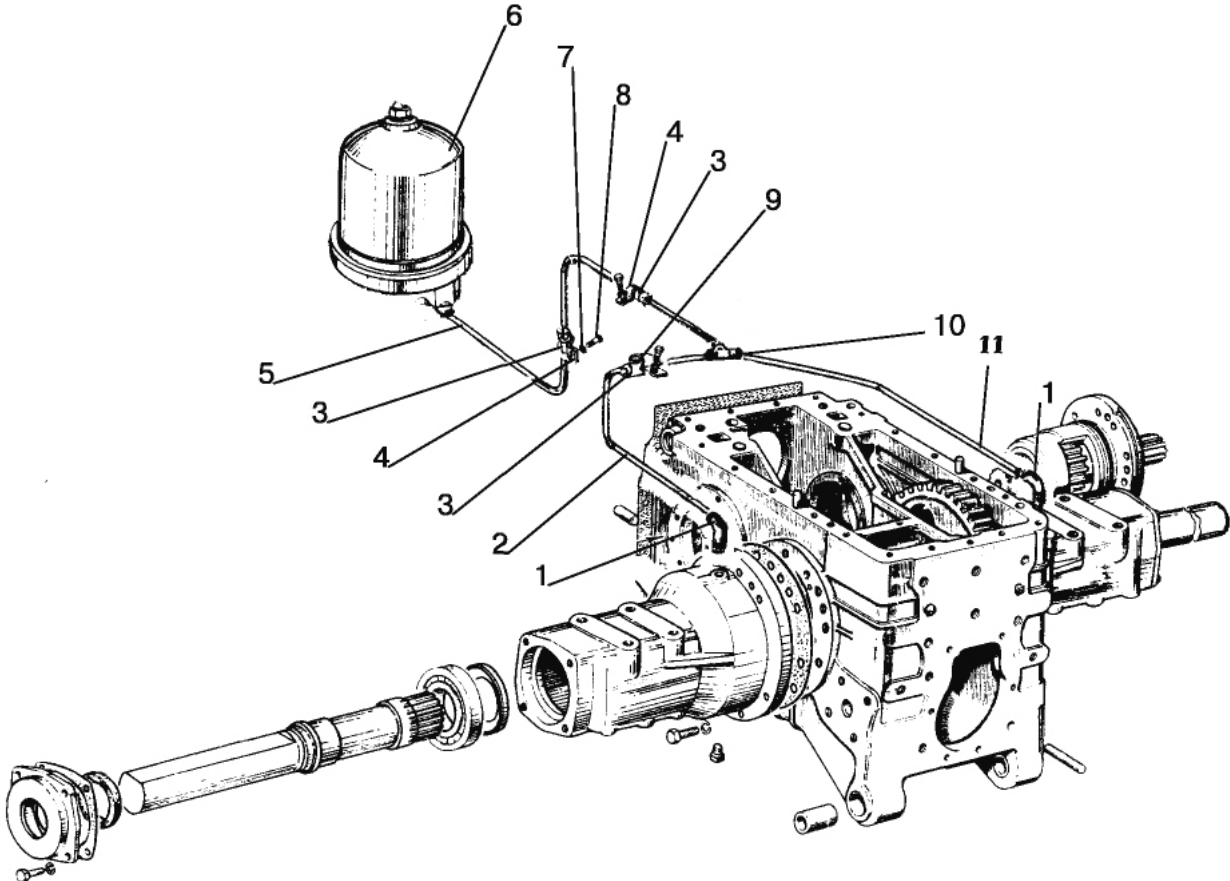


Fig. 24.2. Final drive (lubrication)

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

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

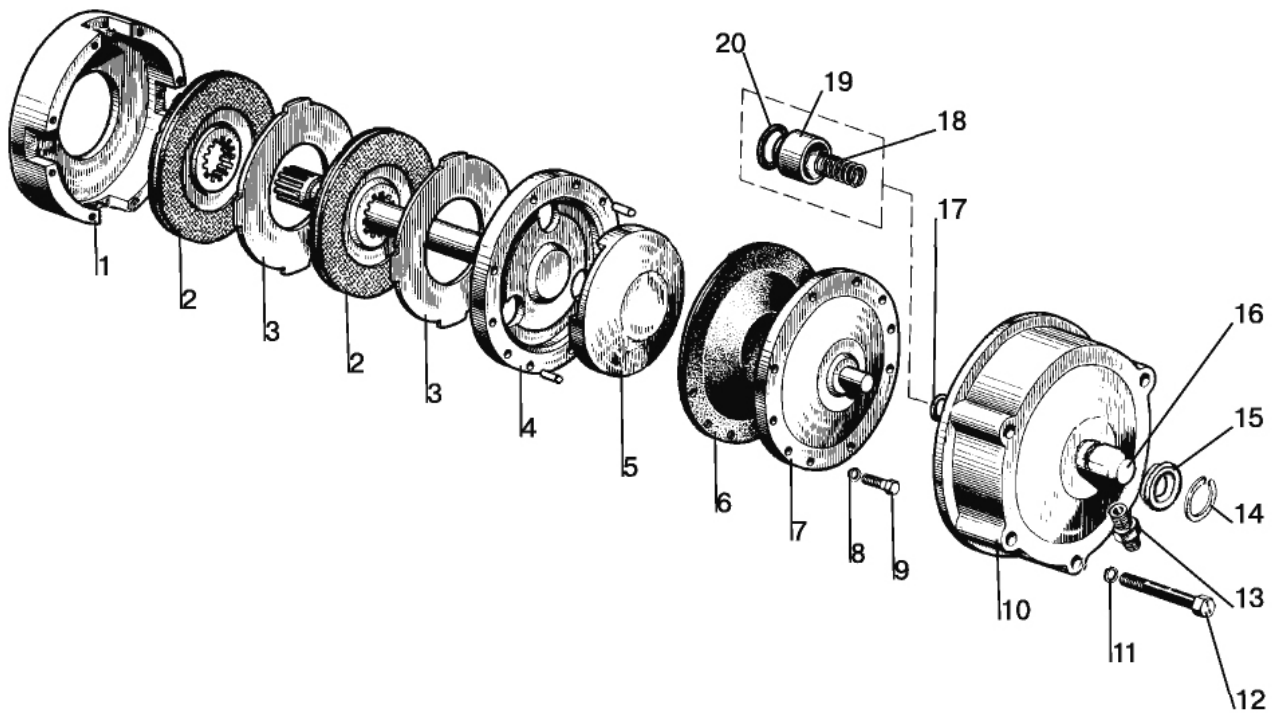


Fig. 24.3. Differential lock mechanism

Group 24. Rear axle
Subgroup 2409. Differential lock mechanism

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
24.3		70-2409010-Б * 70-2409010-Б-01	1	Lock-up coupling (1-9)
		82P-2409050	1	Adaptor (10, 13-20)
	1	70-2409015-A	1	Coupling body
	2	70-3502040-01 or 70-3502040-04	2	Brake disk
	3	70-2409028	2	Release disk
	4	70-2409020 * 70-2409020-01	1	Interlock shaft
	5	70-2409018	1	Pressure disk
	6	70-2409021	1	Diaphragm
	7	70-2409030-Б	1	Diaphragm cover
	8	ШП 8	8	Washer
	9	M8x40	8	Bolt
	10	70-2409035-A6	1	Casing
	11	ШП 12	5	Washer
	12	M12x200* 1522-2409034	5	Bolt
	13	70-2409037	1	Union
	14	C40	1	Ring
	15	82P-2409036A	1	Seal
	16	70-2409026-Б	1	Adaptor
	17	020-025-30-1-4	1	Seal ring
	18	54-06-448-A	1	Spring
19	70-2409027-A	1	Bushing	
20	70-2409033-Б	1	Ring	

* Variant by double-disk brakes installation

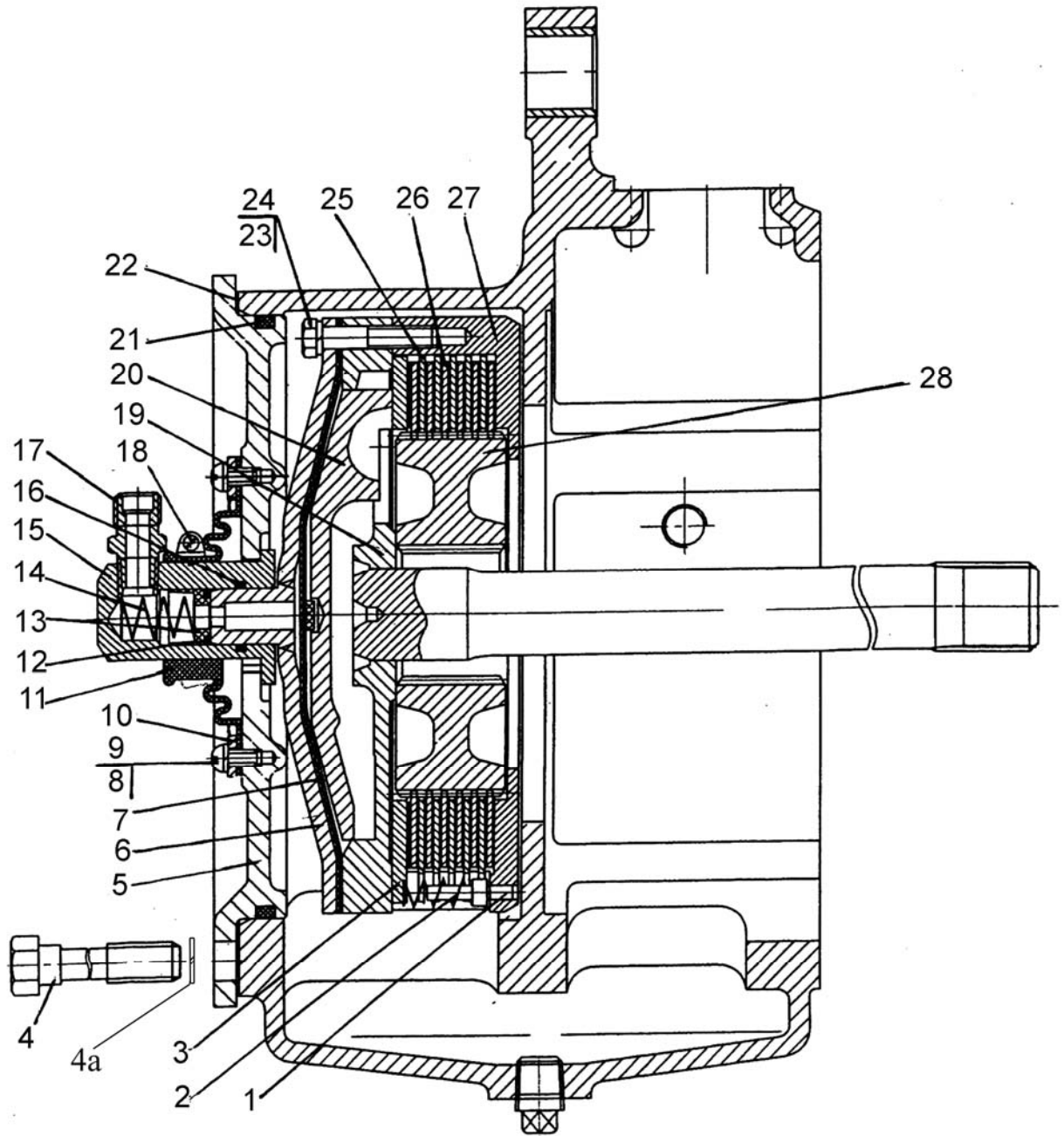


Fig. 24.4. Differential lock mechanism of "wet" type

**Group 24. Rear axle
Subgroup 2409. Differential lock mechanism of "wet" type**

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

* Selected by assembling to provide a required clearance

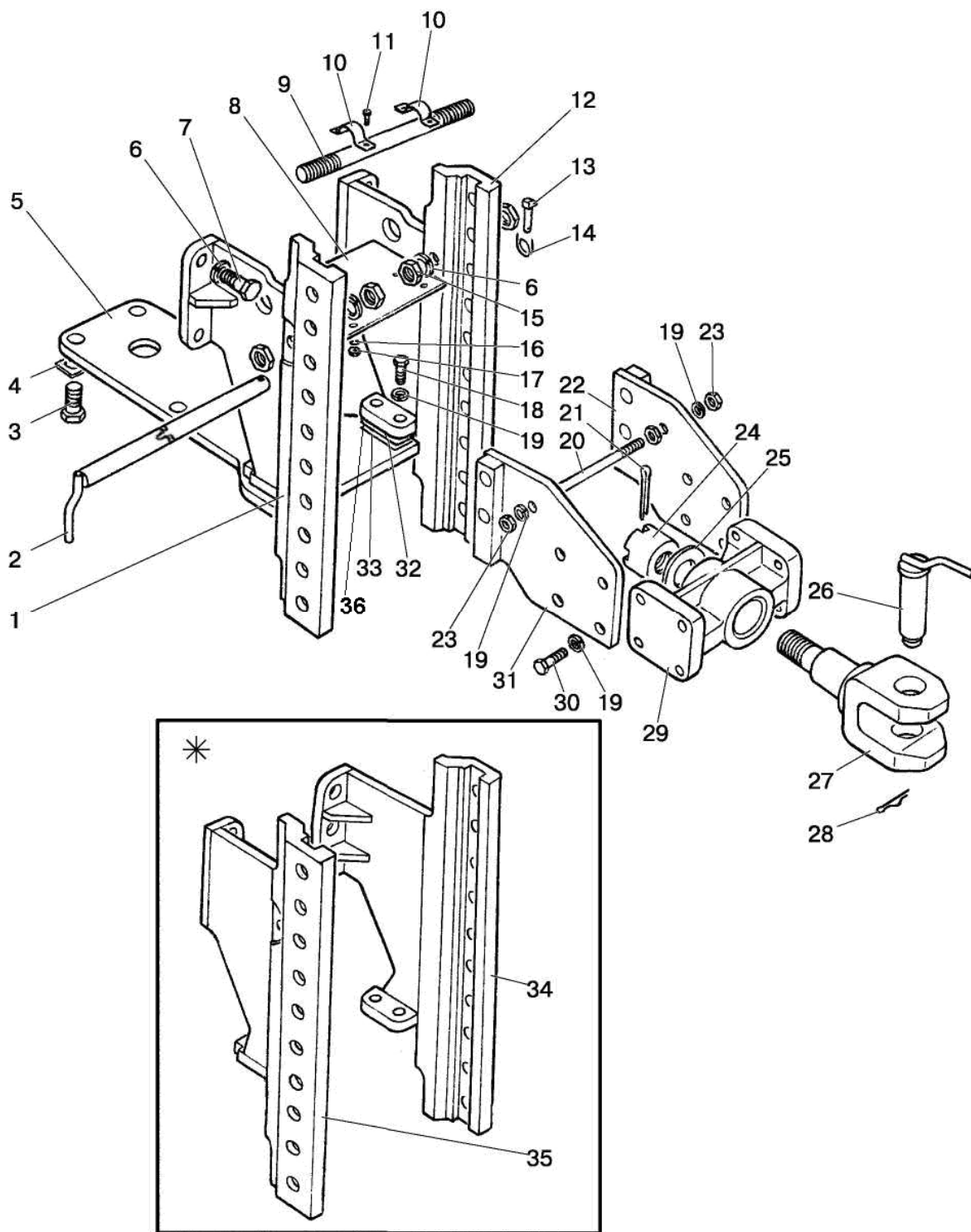


Fig. 27.1. Hitch (variants of configuration)

**Group 27. Hitch
Subgroup 2707. Hitch (variants of configuration)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
27.1		1321-2707010-Б-01	1	Hitch
		1322-2707010-Б-01*	1	Hitch
	1	1321-2707060-Б-02	1	Left side member
	2	1321-2707030	1	Pin
	3	1321-2707014	4	Bolt
	4	1222-2707137	2	Plate
	5	1321-2707011-Б	1	Plate
	6	ШП 20	4	Washer
	7	70-4605036	4	Bolt
	8	1321-2707081-Б	1	Shield
	9	1321-2707074	1	Turnbuckle
	10	1321-2707083-Б	2	Clip
	11	M6x12	5	Bolt
	12	1321-2707060-Б-03	1	Right side member
	13	A61.05.005	1	Cotter
	14	A61.05.004	1	Ring
	15	1321-2707013	4	Nut
	16	ШП 6	5	Washer
	17	M6	4	Nut
	18	1220-4605506	4	Bolt
	19	ШП 16	4	Washer
	20	1522-2707244	1	Turnbuckle
	21	6,3x63	1	Cotter pin
	22	1321-2707070-Б	1	Plate
	23	M16	4	Nut
	24	1522-2707243	1	Nut
	25	1522-2707242	1	Washer
	26	1321-2707040-Б	1	Kingpin
	27	1321-2707052	1	Fork
	28	1321-2707042	1	Cotter pin
	29	1321-2707051-Б	1	Bracket
	30	680-2707024	8	Bolt
	31	1321-2707070Б-01	1	Plate
	32	900-2707135	2	Plate
	33	900-2707135-02	2	Plate
	34	1322-2707060-Б-03*	1	Right side member
35	1322-2707060 Б-02*	1	Left side member	
36	900-2707135-01	2	Plate	

* Configuration with hydraulic lift (BELARUS-1221.2/1221B.2)

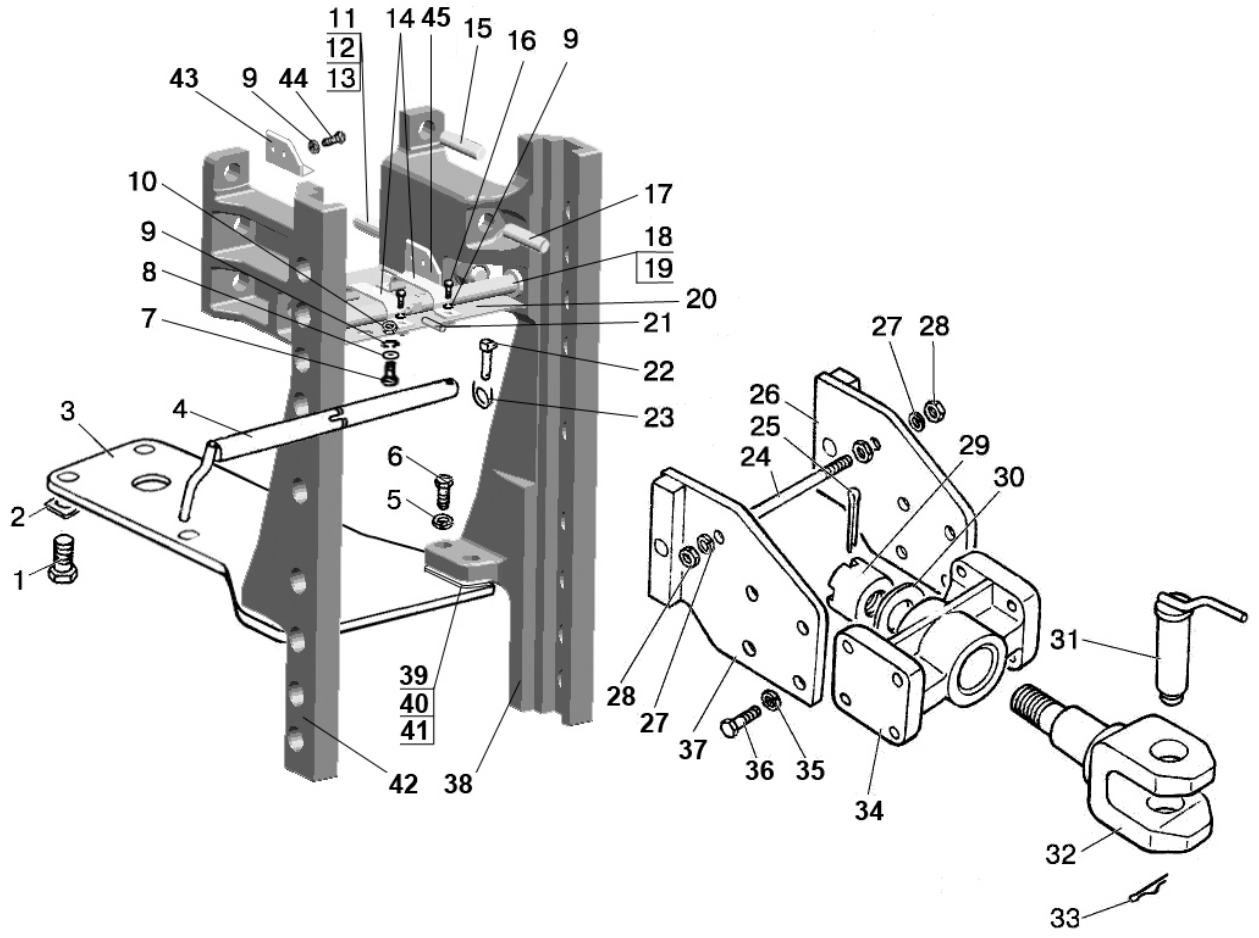


Fig.27.2 Hitch

**Group 27. Hitch
Subgroup 2707. Hitch**

Fig. No	Pos. No	Indication	Q-ty	Description
27.2		1322-2707210	1	Hitch
	1	1321-2707014	4	Bolt
	2	1222-2707137	2	Plate
	3	1321-2707011-Б	1	Plate
	4	1321-2707030	1	Pin
	5	16 ОТ ОГСТ 37.001.115-75	4	Washer
	6	1220-4605506	4	Bolt
	7	M6-6gx18.88.35.019 ГОСТ 7798-70	1	Bolt
	8	C 6.01.019 ГОСТ 11371-78	1	Washer
	9	6T OCT 37.001.115-75	9	Washer
	10	M6-6H.6.019 ГОСТ 5915-70	1	Nut
	11	921-2707068-02	2	Stud
	12	M20-6H.6.019 ГОСТ 5915-70	6	Nut
	13	20 ОТ OCT 37.001.115-75	6	Washer
	14	1321-2707083-Б	2	Clip
	15	921-2707068	2	Stud
	16	M6-6gx12.88.35.019 ГОСТ 7798-70	4	Bolt
	17	921-2707068-03	2	Stud
	18	1322-2707274	1	Turnbuckle
	19	1322-2707211	1	Bushing
	20	1322-2707280	1	Assembled shield
	21	A.6x30.65Г ГОСТ 14229-93	1	Pin
	22	A61.05.005	1	Cotter
	23	A61.05.004	1	Ring
	24	1522-2707244	1	Turnbuckle
	25	6,3x63.019 ГОСТ 397-79	1	Cotter pin
	26	1321-2707070-Б-01	1	Plate
	27	16 ОТ OCT 37.001.115-75	2	Washer
	28	M16-6H.6.019 ГОСТ 5915-70	4	Nut
	29	1522-2707243	1	Nut
	30	1522-2707242	1	Washer
	31	1522-2707079-A	1	Kingpin
	32	1321-2707052	1	Fork
	33	A61.07.001-A	1	Cotter pin
	34	1321-2707051-Б	1	Bracket
	35	20 ОТ OCT 37.001.115-75	8	Washer
	36	680-2707024	8	Bolt
	37	1321-2707070-Б	1	Plate
	38	1322-2707261	1	Side member
	39	900-2707135	2 (not more)	Plate
	40	900-2707135-01	2 (not more)	Plate
	41	900-2707135-02	2 (not more)	Plate
	42	1322-2707261-01	1	Side member
	43	1322-2707262-01	1	Bracket
	44	M6-6gx16.88.35.019 ГОСТ 7798-70	4	Bolt
45	1322-2707262	1	Bracket	

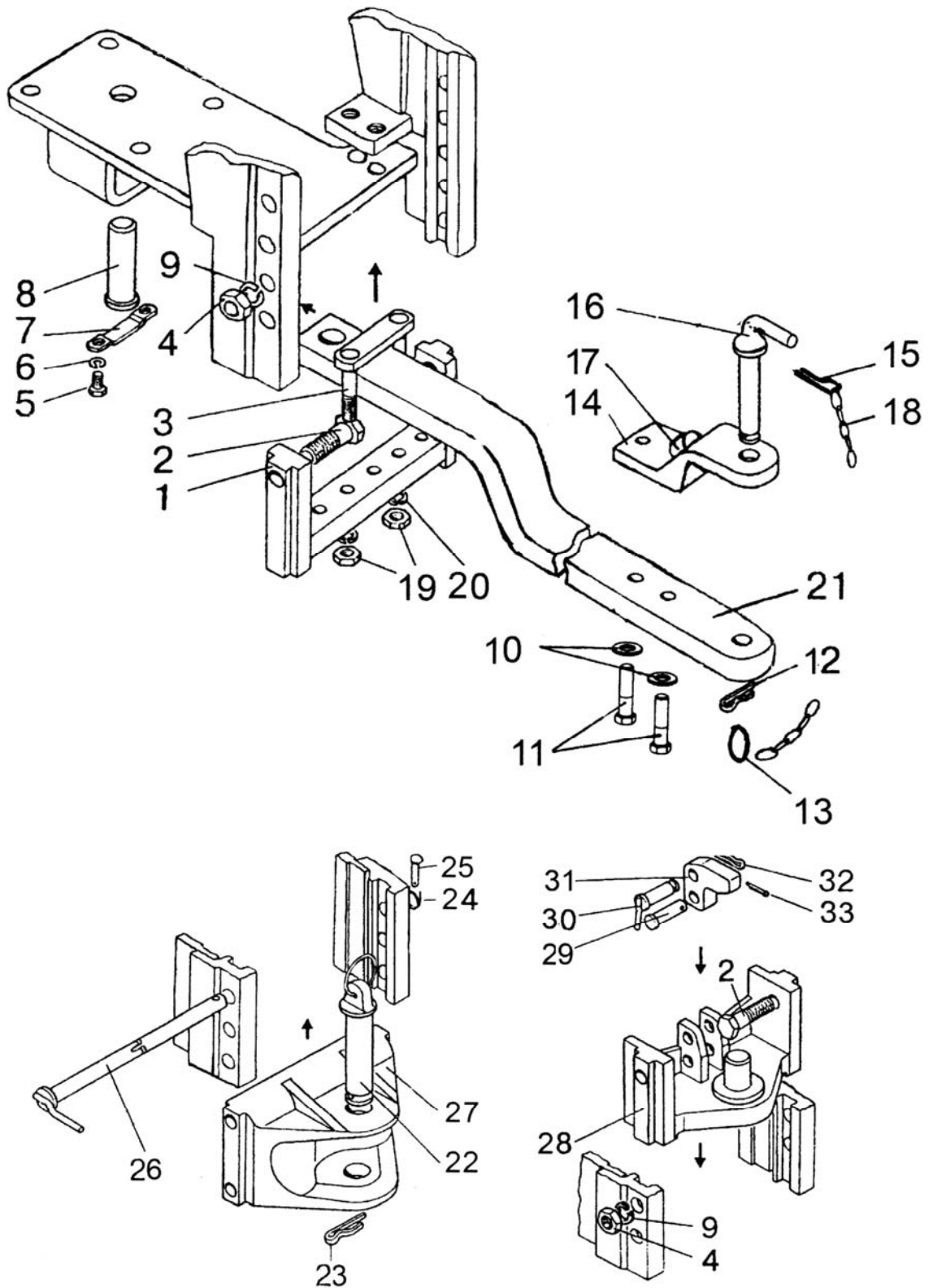


Fig. 27.3. Hitch (variants of configuration)

**Group 27. Hitch
Subgroup 2707. Hitch (variants of confiration)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
27.3		1321-2707150-Б1	1	Rod (11-19, 25)
		1322-2707160	1	Python (40-44, 46)
	1	1322-2707130-Б	1	Cross bar
	2	1322-2707133	4	Bolt
	3	1322-2707120-Б1	1	Clip
	4	M20	4	Nut
	5	M10	2	Bolt
	6	ШП 10	2	Washer
	7	1522-2707126	1	Plate
	8	1522-2707127	1	Axis
	9	ШП 20	4	Washer
	10	1523-2707146	2	Washer
	11	1523-2707149-Б	2	Bolt
	12	A61.07.001-A	1	Cotter pin
	13	H50-4202146	1	Ring
	14	1523-2707143	1	Lining
	15	3,2x25	1	Cotter pin
	16	1522-2707079-A	1	Kingpin
	17	1523-2707142	1	Clip
	18	70-4235035	2	Chain
	19	M16	2	Nut
	20	ШП 16	2	Washer
	21	1321-2707144-Б1	1	Rod
	22	1321-2707140-Б	1	King pin
	23	1321-27070342	1	Cotter pin
	24	A61.05.004	1	Ring
	25	A61.05.005	1	Cotter
	26	1321-2707030	1	Pin
	27	1321-2707113-A	1	Fork
	28	1322-2707165	1	Plate with python
	29	1322-2707162-01	1	Pin
	30	1322-2707180	1	Pin
	31	1322-2707161	1	Rest
32	A61.07.001	1	Cotter pin	
33	4x36	1	Cotter pin	

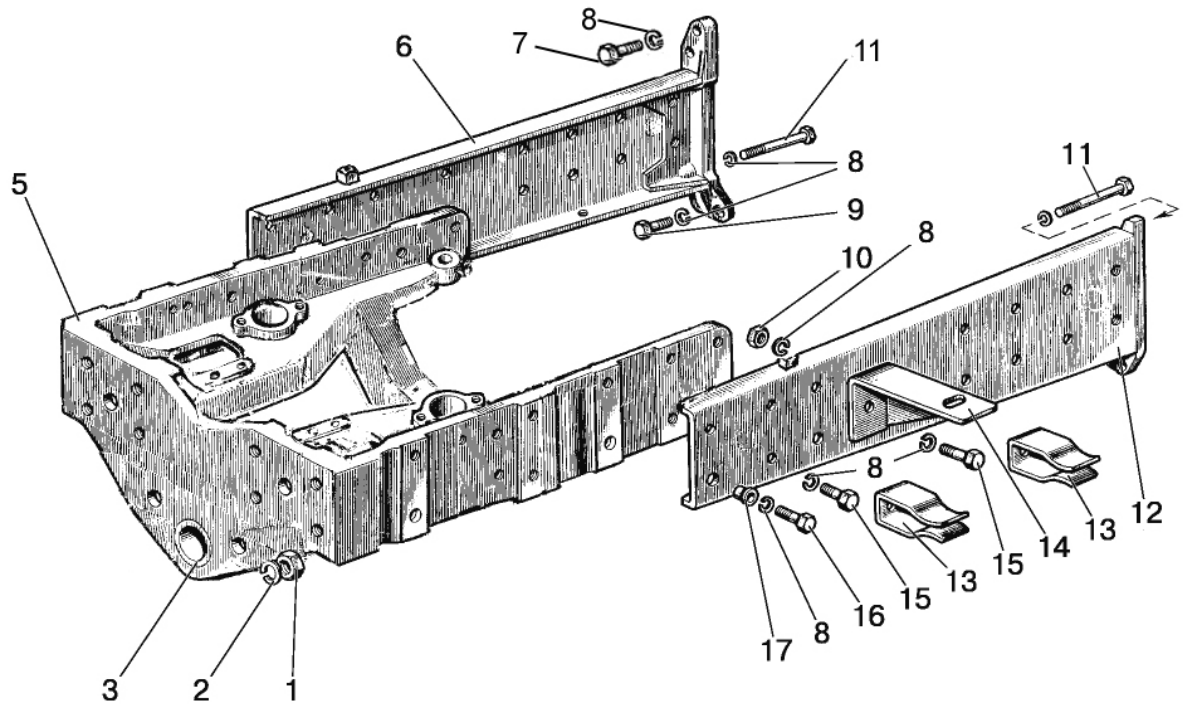


Fig. 28.1 Assembled semi-frame

Group 28. Frame
Subgroup 2801. Assembled semi-frame

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

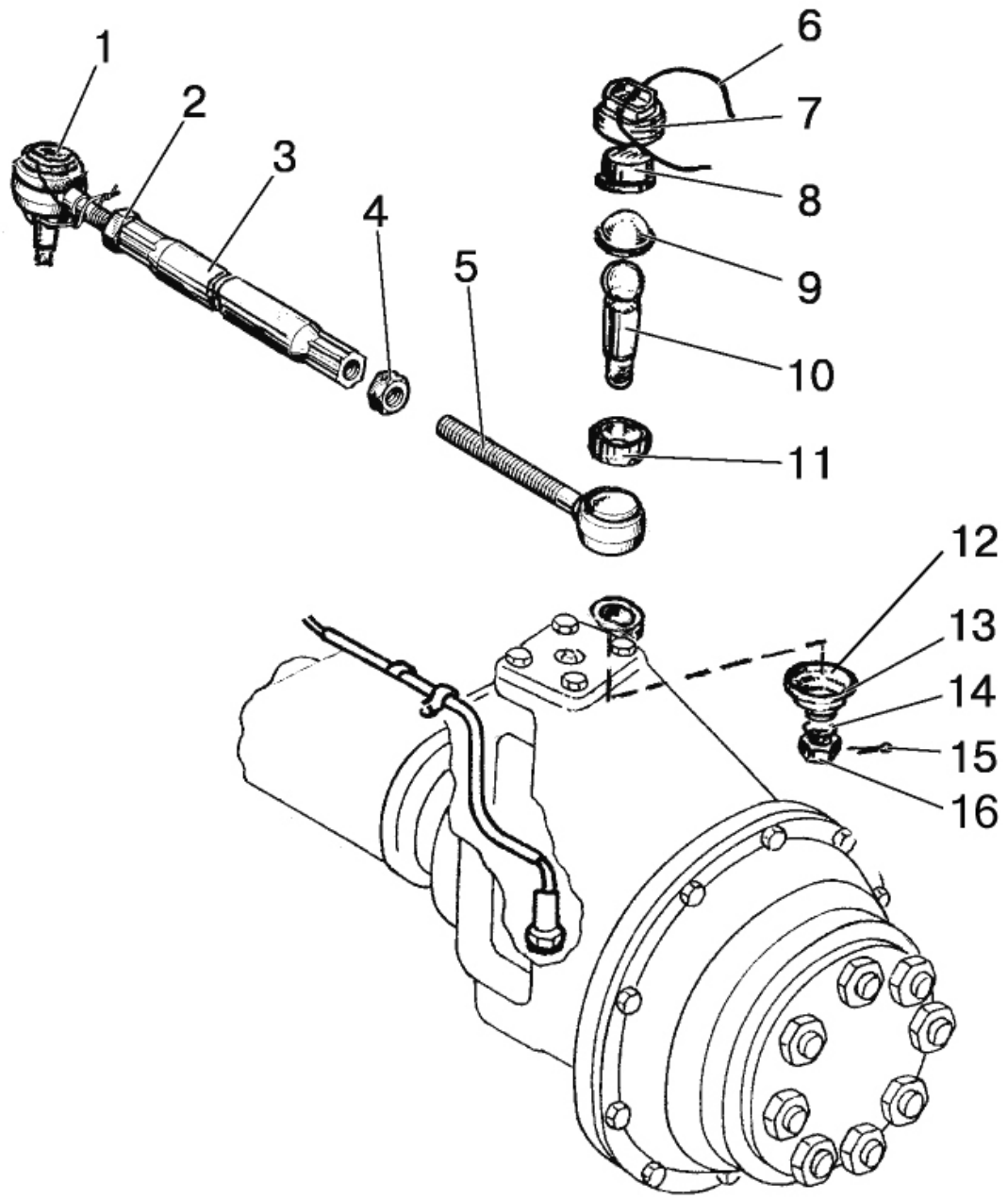


Fig. 30.1. Steering links

**Group 30. Front axle
Subgroup 3003. Steering links**

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

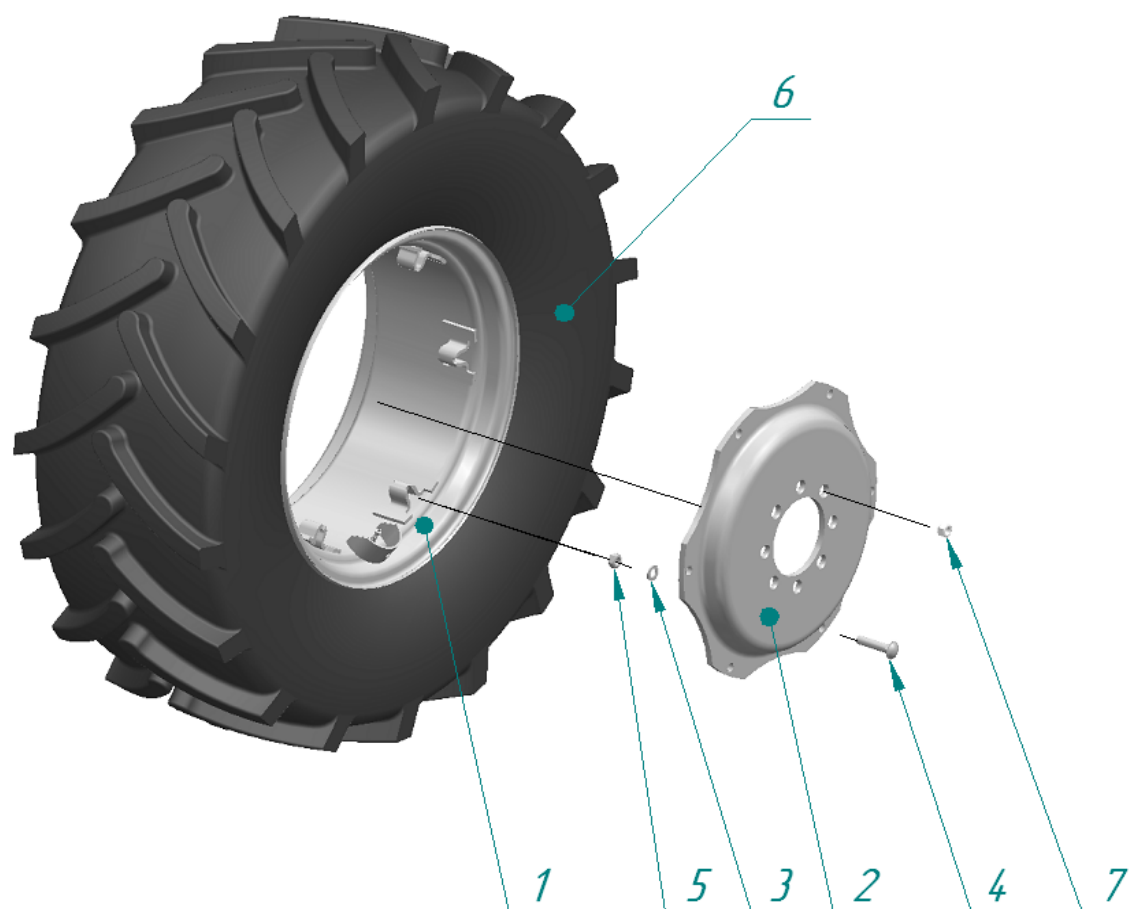


Fig. 31.1 Front driving wheels

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
31.1		1221-3101010-01 1221-3101010	2	Wheel (with tire 420/70R24) (1-6) or Wheel (with tire 14.9R24) (1-6)
		W12-24-3101020-01 or 880.3101012-01	2	Wheel W12x24 (1, 2, 3, 4, 5)
	1	W12-24-3101035	2	Wheel tread W12x24 with brackets
	2	W12-24-3101017	2	Disk
	3	52-2301065	12	Washer
	4	1221-3101011	12	Bolt
	5	1221-3101013 or M16x1.5-6H.10.019	12	Nut Nut ГOCT 5915-70
	6		2	Tire 420/70R24 or 14.9R24
7	40-3103017-01	16	Nut	

ГОСТ – Governmental standard (GOST) / State standard

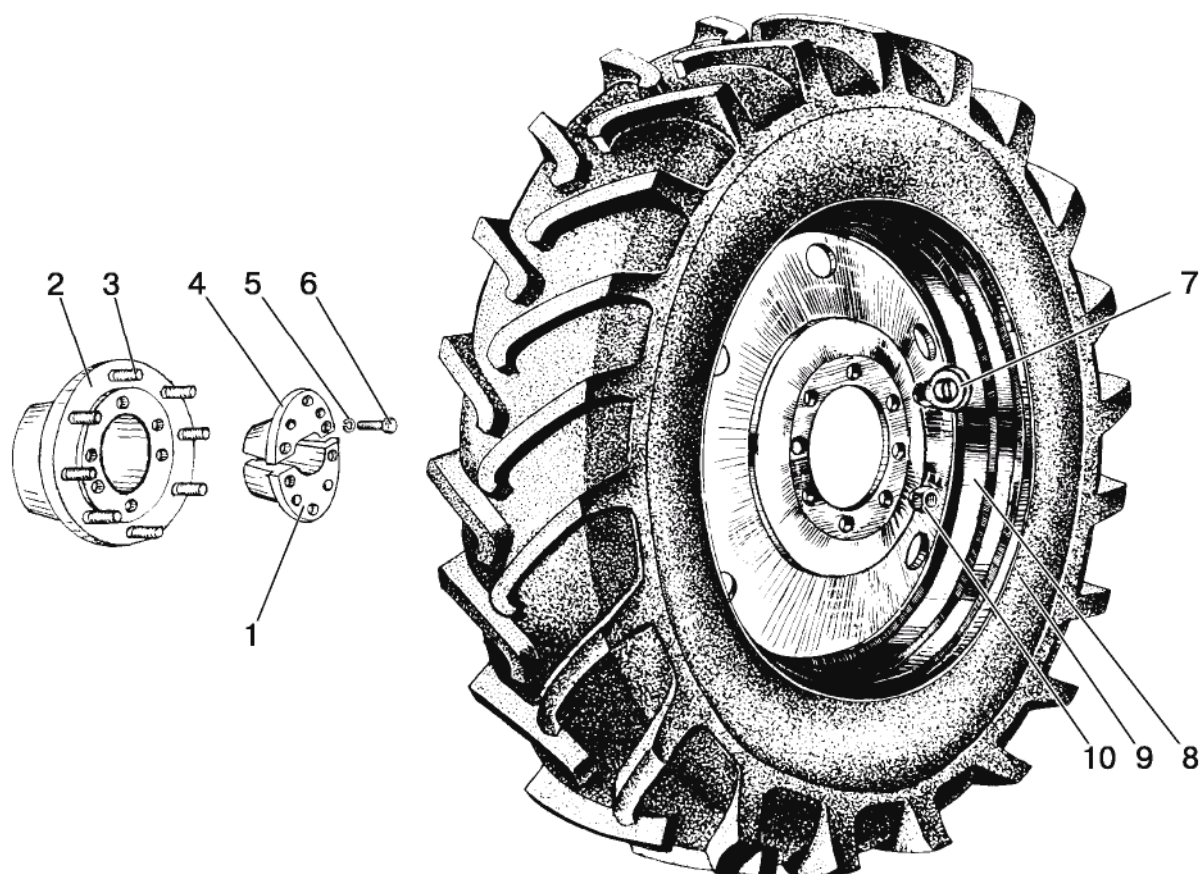


Fig. 31.2 Rear driving wheels

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
31.2		1220-3104010	2	Hub (1-7, 10)
	1	1220-3104012	1	Liner
	2	1220-3104011	1	Hub
	3	40-3104021	8	Bolt
	4	1220-3104012-01	1	Liner
	5	ШП 20	6	Washer
	6	70-4605036	6	Bolt
	7	70-3104019	2	Special nut
		1221-3107010*	2	Wheel 18.4R38 (assembled with tire) (8, 9)
	8	DW15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38
	9		2	Tire 18.4R38
		72-3107010**	2	Wheel 16.9R38 (assembled with tire) (8, 9)
	8	DW15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38
9		2	Tire 16.9R38	
10	36-3104019	7	Nut	

* For tractors with FDA 1222-2300020-05

** For tractors with FDA 1222-2300020

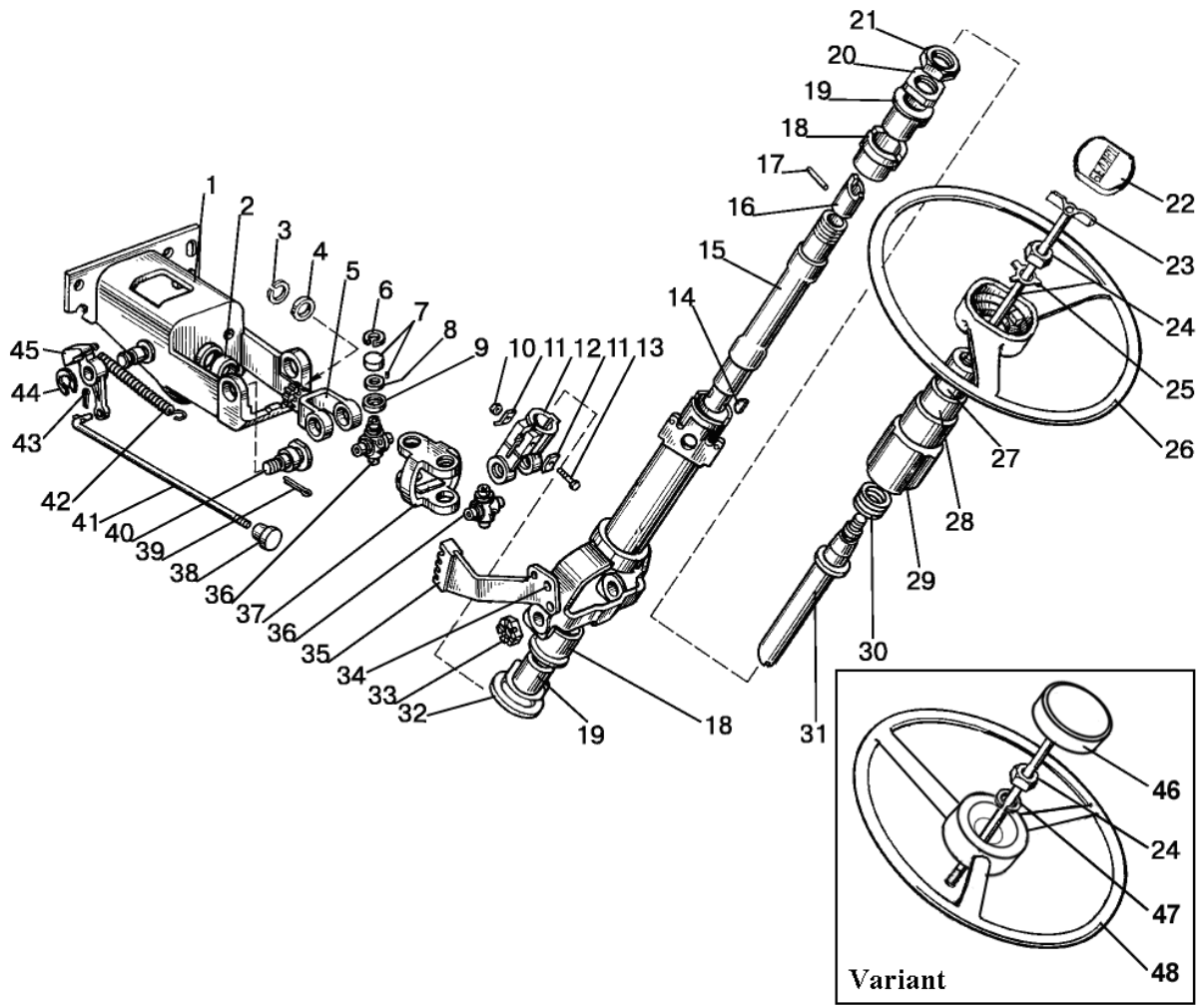


Fig. 34.1. Steering column

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.1		85-3401010	1	Steering column (1-21, 32-37, 39, 40, 42- 45)
		70-3401050-Б	1	Shaft (15-17)
		85-3401150	1	Cardan (5-9, 12, 36, 37)
	1	85-3401120	1	Bracket
	2	85-3401016	1	Bushing
	3	C20	1	Ring
	4	80-3401019	1	Washer
	5	85-3401156-Б	1	Fork
	6	C19	8	Ring
	7	904700YC17	8	Bearing
	8	50-3401064	8	Gland
	9	50-3401063	8	Casing
	10	M10	1	Nut
	11	80-3401013	2	Washer
	12	50-3401061-A	1	Fork
	13	M10x45	1	Bolt
	14	5x10	1	Semi-circular key
	15	70-3401055	1	Layshaft
	16	70-3401054-Б	1	Tail
	17	ШЦК8x36	1	Pin
	18	70-3401077-Б	2	Shock absorber
	19	70-3401076	2	Bushing
	20	70-3401078	1	Nut
	21	70-3401079	1	Locknut
	22	80-3401082	1	Cover
	23	80-3401140	1	Clip
	24	M16x1,5	1	Nut
	25	50-3401091	1	Washer
	26	80-3402015	1	Steering wheel
	27	80-3709025	1	Bushing
	28	80-3709026 -Б	1	Bushing
	29	80-3709024	1	Hood
	30	50-4608057	1	Spring
	31	85-3401175	1	Shaft
	32	600-3401012	1	Washer
	33	70-3003032	2	Nut
	34	8x28	2	Rivet
	35	600-3401160	1	Sector
	36	50-3401062	2	Cross
	37	85-3401067	1	Fork
	38	70-3709012-A	1	Handle
	39	4x25	2	Cotter pin
	40	85-3401011	2	Screw
	41	85-3401001	1	Rod
	42	50-1310158-Б	1	Spring
	43	1,6x12	1	Cotter pin
	44	C18	1	Ring
	45	85-3401014	1	Lock
46	38RPN-02.00.00/B or 822-3401140-A1	1	Clip	
47	ШП 16	1	Washer	
48	38RPN-01.00.00 or 70-3402015-A	1	Steering wheel	

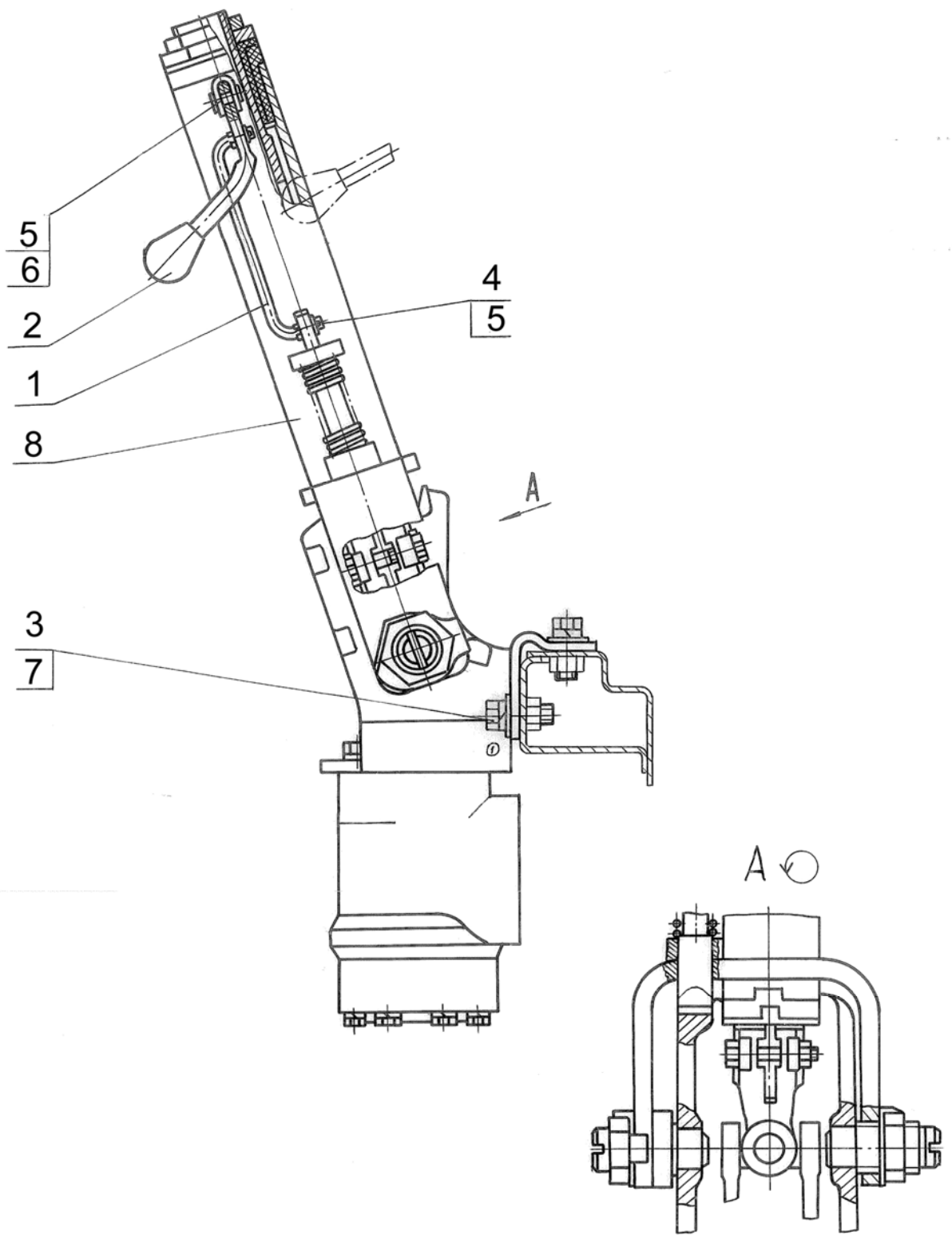


Fig. 34.2 Steering column (reverse)

Group 34. Steering system
Subgroup 3401. Steering column (reverse)

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.2	1	70-3401085	1	Lever
	2	70-3401093	1	Lever end
	3	M10-6gx25.88.35.019	4	Bolt ГOCT 7796-70
	4	6.01.08 кп.019	2	Washer ГOCT 11371-78
	5	2x12.019	2	Cotter pin ГOCT 397-79
	6	6x18.016	1	Pin OCT 37.00.163-75
	7	10 OT	4	Washer OCT 37.001.115-75
	8	80B-3401000	1	Steering column

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

Group 34. Steering system
Subgroup 3407. Hydrostatic power steering

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.3		1221-3400010-Б	1	Hydrostatic power steering
	1	85-3407107	1	Strip
	2	1221-3407030	1	Oil pipeline
	3	1221B-3407050	1	Oil pipeline
	4	1221B-3407040	1	Oil pipeline
	5	80B-3407012	1	Bracket
	6	ШП 8	7	Washer
	7	M8	1	Nut
	8	XC-31	2	Clamp
	9	1221-3407013	1	Bracket
	10	M8x20	1	Bolt
	11	70-3506027	5	Bushing
	12	70-3407163	1	Clip
	13	1221-3407200	1	Oil tank
	14	XC-26	2	Clamp
	15	952-3407014-10	1	Hose
	16	85-3407105-04	1	Bolt
	17	923-3407080	1	Oil pipeline
	18	Φ80-3407157 or PM 1/2	5	Washer
	19	OSPC1600N150G0030 or LAGC 160-10/200- 140M01-100 or SUB 160-140.200-1	1	Dosing pump
	20	Φ80-3407134	3	Union
	21	2522D-3407085-01	1	Oil pipeline
	22	680-4607140-11	3	High pressure sleeve
	23	1221-3407140	1	Valve
	24	40-4607033-A – 01 or PM 24	2	Washer
	25	H.036.12.010	2	Blind plug
	26	1321-3407018-01	1	Hose
	27	1221-3407020	1	Oil pipeline
	28	70-3407146	3	Strip
	29	M8x30	3	Bolt
	30	M10x25	2	Bolt
	31	ШП 10	1	Washer
	32	102-3407014	1	Clip
	33	70-4607158	2	Gasket
	34	M8x40	2	Bolt
	35	017-022-30-1-4	2	Ring
	36	M8x35	2	Bolt
	37	Ц50-3405215	2	Hydraulic cylinder
	38	Φ80-3407114 or PM 3/8	8	Washer
	39	952-3407020	2	Adaptor
	40	Φ80-3407201	4	Bolt
	41	952-3407100-12	2	High pressure sleeve
	42	1221-3407010-Б	1	T-piece
	43	1.1.Ц6.xp	4	Oiler
	44	M20x1,5	4	Nut
	45	Φ80-3405103	4	Lock washer
46	C20	4	Washer	

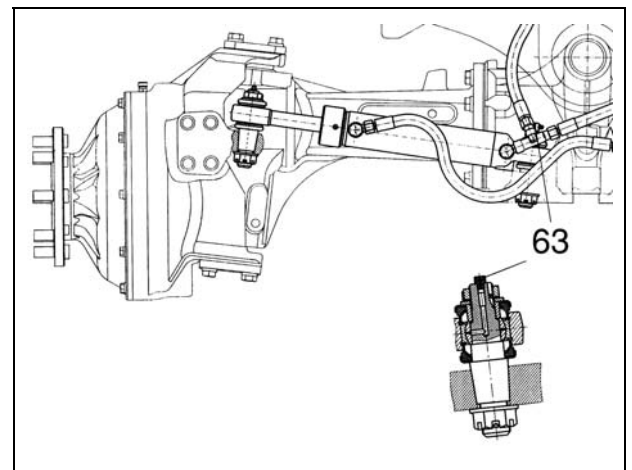
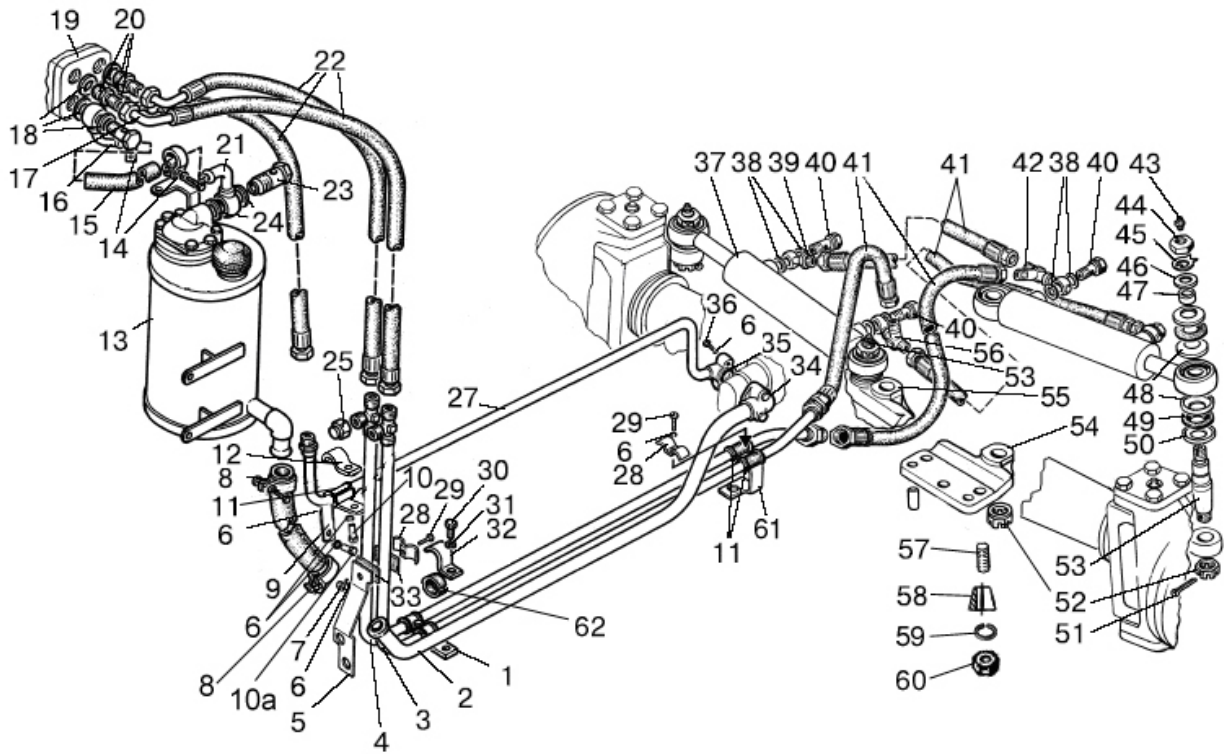


Fig. 34.3. Hydrostatic power steering

Group 34. Steering system
Subgroup 3407. Hydrostatic power steering

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.3	47	Φ80-3405102-B	4	Bushing
	48	Φ80-3405107	8	Spherical bushing
	49	Φ80-3405109	8	Seal of hinge
	50	Φ80-3405108	8	Seal cup
	51	4x36	4	Cotter pin
	52	70-4605316	4	Nut
	53	102-3405103	4	Pin
	54	1222-2301021-Б	1	Bracket
	55	1222-2301022-Б	1	Bracket
	56	1221-3407010-Б-01	1	T-piece
	57	1520-2308079	4	Stud
	58	1520-2308077	4	Collet
	59	ШП 16	4	Washer
	60	M16	4	Nut
	61	1221-3407101	1	Bracket
	62	70-4607158-01	1	Gasket
	63	Φ80-3405112	2	Reducing union

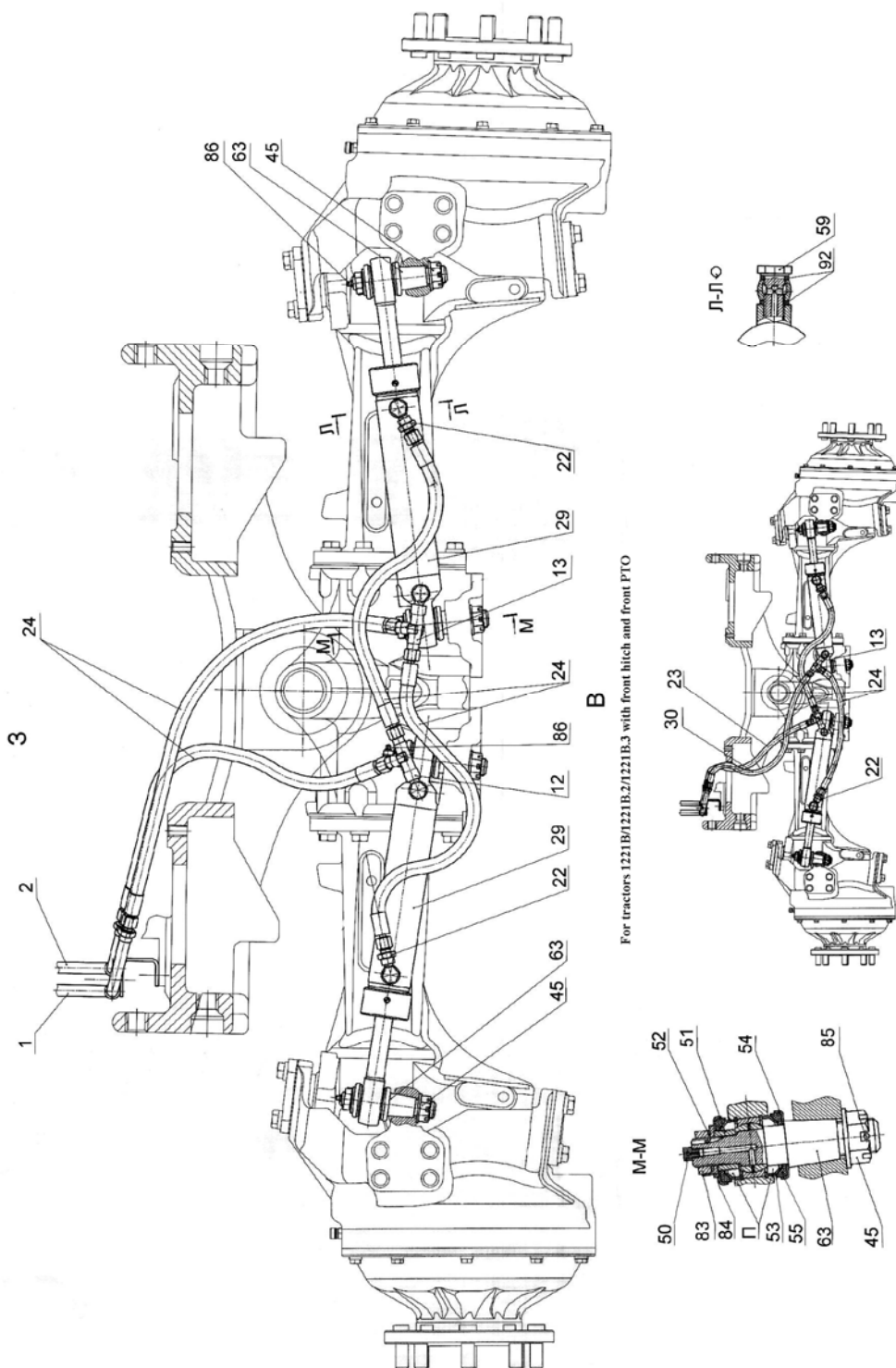


Fig. 34. Hydrostatic power steering (reverse)

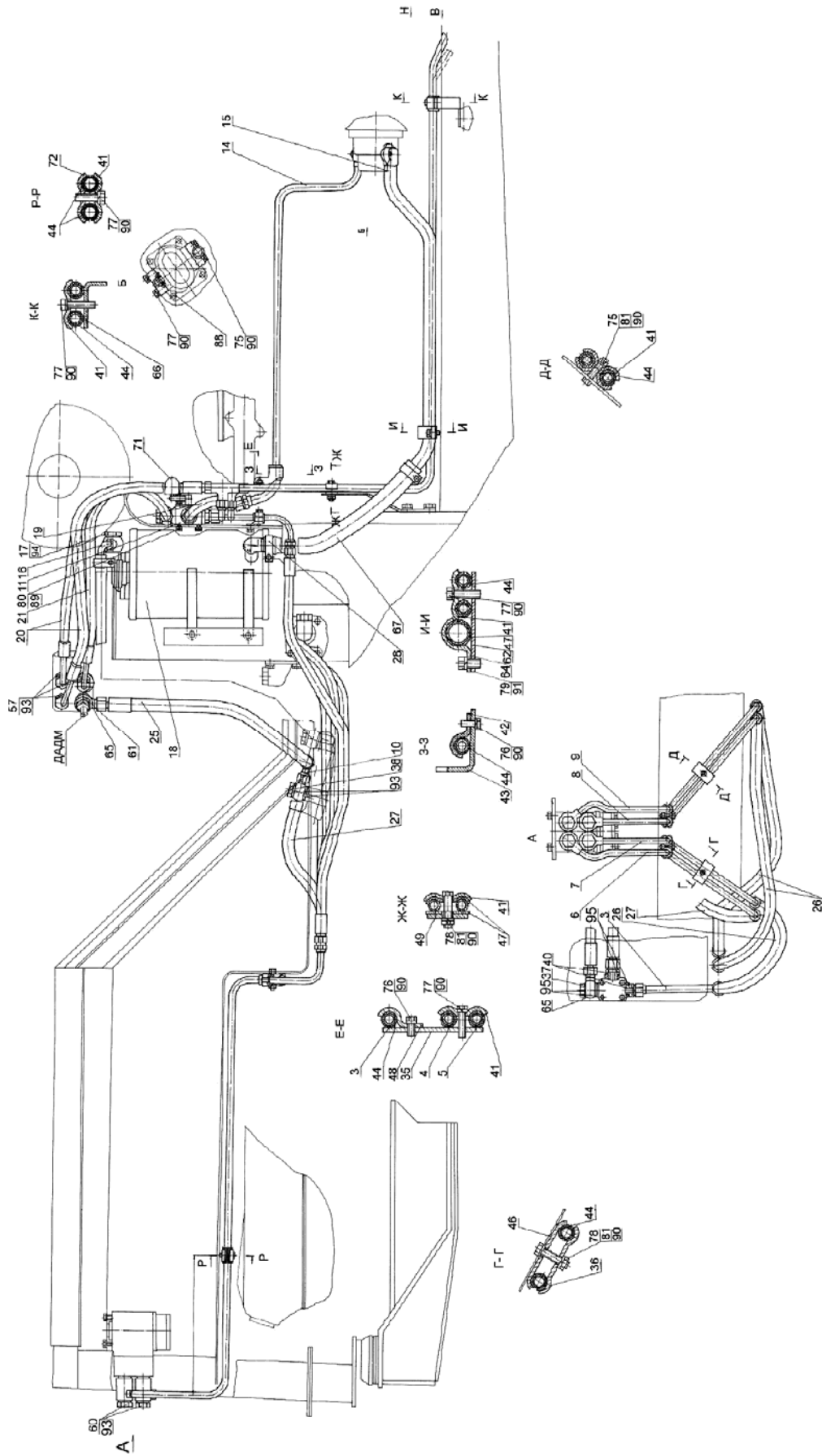


Fig. 34.4a Hydrostatic power steering (reverse)

**Group 34. Steering system
Subgroup 3407. Hydrostatic steering unit (reverse)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.5a 34.5b		1221B-3400010-B	1	Hydrostatic power steering
	1	1221B-3407040	1	Oil pipeline
	2	1221B-3407050	1	Oil pipeline
	3	1221B-3407060-B	1	Oil pipeline
	4	1221B-3407070	1	Oil pipeline
	5	1221B-3407070-01	1	Oil pipeline
	6	1221B-3407090	1	Oil pipeline
	7	1221B-3407100	1	Oil pipeline
	8	1221B-3407110	1	Oil pipeline
	9	1221B-3407120	1	Oil pipeline
	10	1221B-3407130	1	Oil pipeline
	11	1221B-3407150-A	1	Cock
	12	1221-3407010-B	1	T-piece
	13	1221-3407010-B-01	1	T-piece
	14	1220-3407020	1	Oil pipeline
	15	1221-3407030	1	Oil pipeline
	16	1221-3407130	1	Oil pipeline
	17	1221-3407140	1	Valve
	18	1221-3407200	1	Oil tank
	19	1522B-3407100-06	1	High pressure sleeve
	20	680-4607140-11	2	High pressure sleeve Ø10x1 armored
	21	1522B-3407100-08	1	High pressure sleeve
	22	952-3407020	2	Adaptor
	24	952-3407100-12	4	High pressure sleeve Ø8x1 armored
	25	H.036.83.040	1	High pressure sleeve II-12
	26	H.036.83.090	3	High pressure sleeve Ø12,5x2 armored
	27	H.036.83.140	1	High pressure sleeve Ø12,5x2 armored
	28	XC-31	2	Clamp
	29	U50-3405215-A	2	Hydraulic cylinder
	30	952-3407100-02	1	High pressure sleeve Ø8x1 armored
	35	1221B-3407013	1	Bracket
	36	40-4607029-A	1	Strip
	37	40-4607032	2	Clamp bolt
	40	70-1405089	2	Screw-in union
	41	70-3407146	8	Strip
	42	70-3407163	1	Clip
	43	70-3407164	1	Bracket
	44	70-3506027	16	Bushing
	45	70-4605316	4	Nut
	46	70-4607156	1	Strip
	47	70-4607158	3	Gasket
	48	70-6804011	1	Hold
	49	80B-3407012	1	Bracket
	50	Φ80-3405112	2	Reducing union
	51	Φ80-3405102-B	4	Bushing
	52	Φ80-3405103	4	Lock washer
	53	Φ80-3405107	8	Spherical bushing
	54	Φ80-3405108	8	Cup of seal
	55	Φ80-3405109	8	Hinge seal

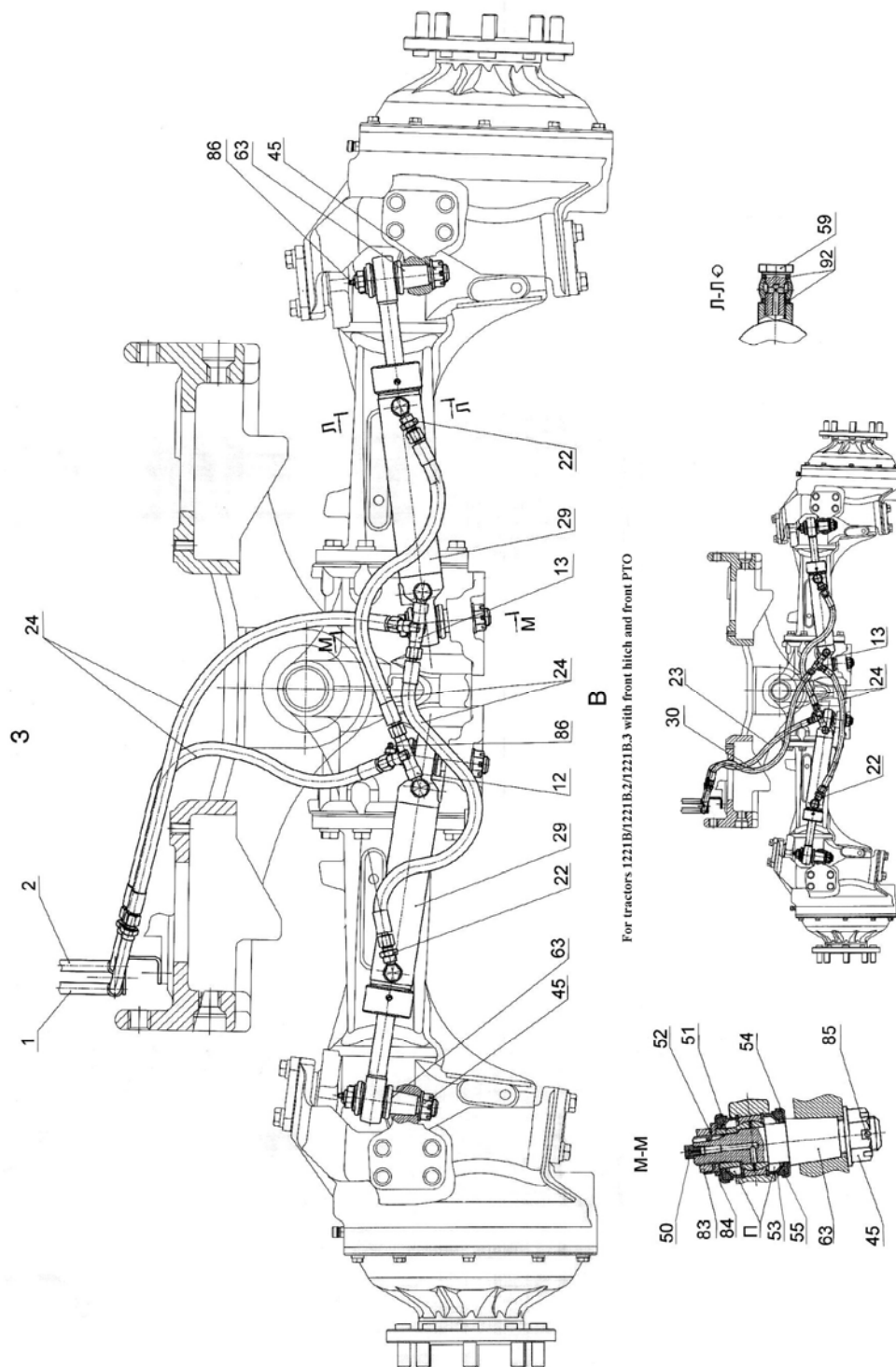


Fig. 34.4a Hydrostatic power steering (reverse)

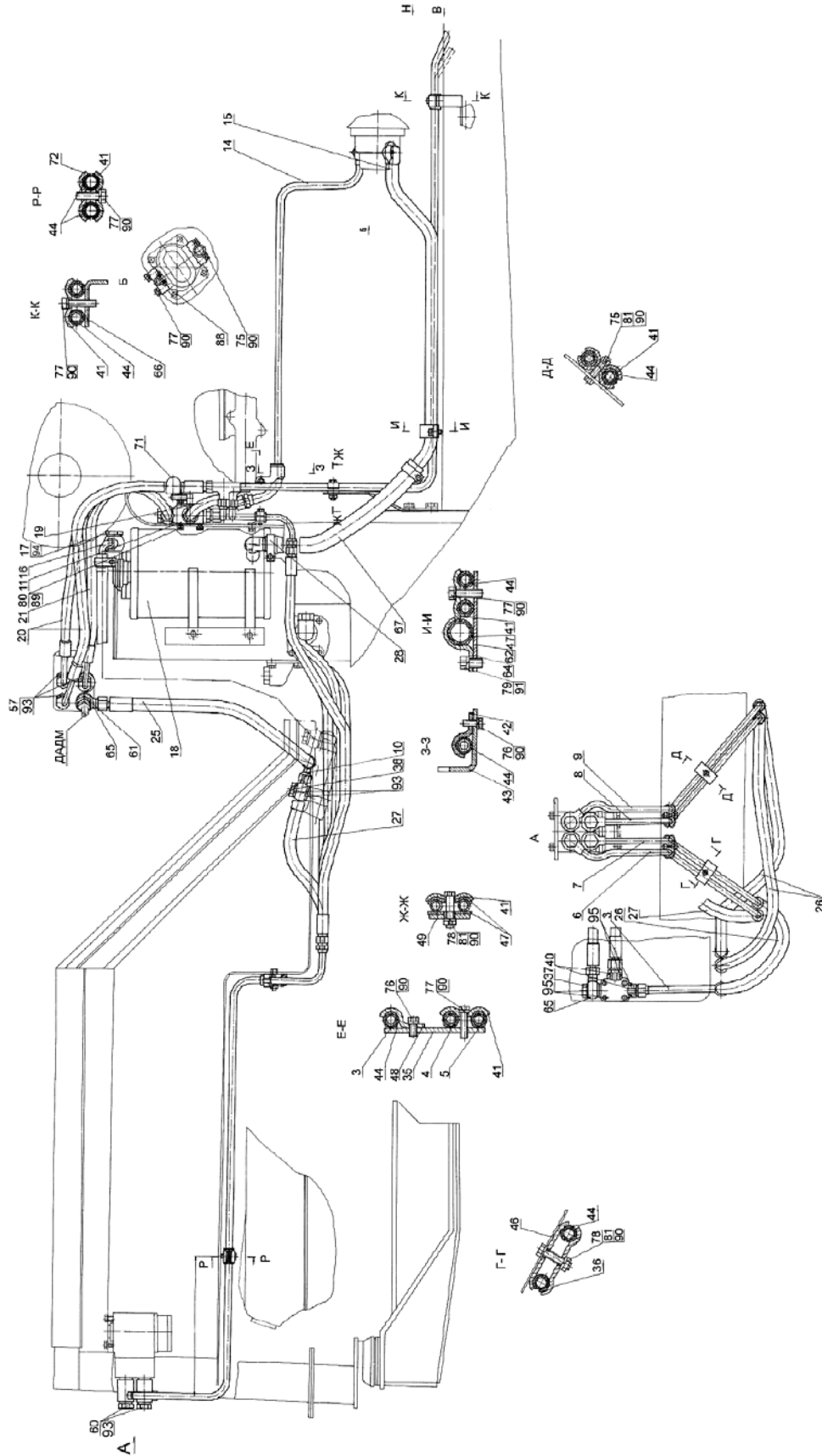


Fig. 34.4b Hydrostatic power steering (reverse)

**Group 34. Steering system
Subgroup 3407. Hydrostatic power steering (reverse)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.5a 34.5b	57	Φ80-3407134	3	Union
	59	Φ80-3407201	4	Bolt
	60	85-3407105-01	4	Bolt
	61	85-3407105-02	1	Bolt
	62	85-3407107	1	Strip
	63	102-3405103	4	Pin
	64	102-3407014	1	Clip
	65	530-4614029	2	Elbow
	66	1221-3407101	1	Bracket
	67	1321-3407018-01	1	Hose
	71	A13.11.000	1	Handle
	72	70-3407144	2	Threaded strip
	75	M8-6gx45.88.35.019	4	Bolt GOCT 7795-70
	76	M8-6gx20.88.35.019	2	Bolt GOCT 7796-70
	77	M8-6gx30.88.35.019	6	Bolt GOCT 7796-70
	78	M8-6gx35.88.35.019	2	Bolt GOCT 7796-70
	79	M10-6gx25.88.35.019	1	Bolt GOCT 7796-70
	80	M6-6gx14.88.35.019	4	Bolt GOCT 7798-70
	81	M8-6H.6.019	3	Nut GOCT 5915-70
	83	M20x1,5-6H.04.019	4	Nut GOCT 15522-70
	84	C 20.01.019	4	Washer GOCT 11371-78
	85	4x36.019	4	Cotter pin GOCT 397-79
	86	1.1.Ц9.xp	4	Oiler GOCT 19853-74
	88	017-022-30-1-4	2	Ring GOCT 18829-73/GOCT 9833-73
	89	6T	4	Washer OCT 37.001.115-75
	91	10 OT	1	Washer OCT 37.001.115-75
	92	Φ80-3407114 or PM3/8	8	Washer
	93	Φ80-3407157 or PM 1/2	13	Washer
	94	40-4607033-A-01 or PM24	2	Washer
	95	40-4607038-A-01 or PM 1/2	4	Washer

GOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

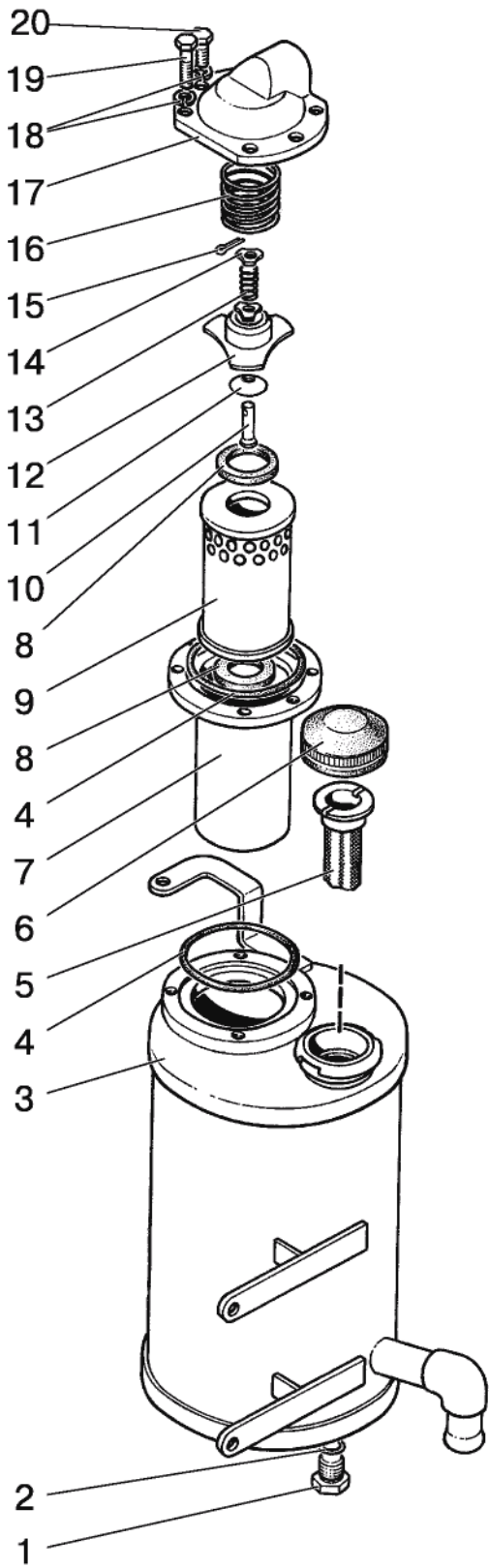


Fig. 34.5. Hydraulic tank

Group 34. Steering system
Subgroup 3407. Hydraulic tank

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
34.5		1221-3407200	1	Hydraulic tank (1-2)
	1	50-4608027-B	1	Plug
	2	017-021-25-2-2	1	Ring
	3	1221-3407210	1	Tank
	4	075-080-30-1-4	2	Ring
	5	A61-C06-A3	1	Filter
	6	240-3707200	1	Plug
	7	220-4608060	1	Sleeve
	8	80-4608024	2	Ring
	9	601T-1-06	1	Filtering element
	10	320-4608082	1	Rod
	11	320-4608083	1	Spherical valve
	12	320-4608085	1	Valve body
	13	80-3405044	1	Spring
	14	320-4608081	2	Back-up washer
	15	2x12	1	Cotter pin
	16	50-4608057	1	Spring
	17	220-4608051-01	1	Cover
	18	ШП6	6	Washer
	19	M6x25	4	Bolt
20	M6x16	2	Bolt	

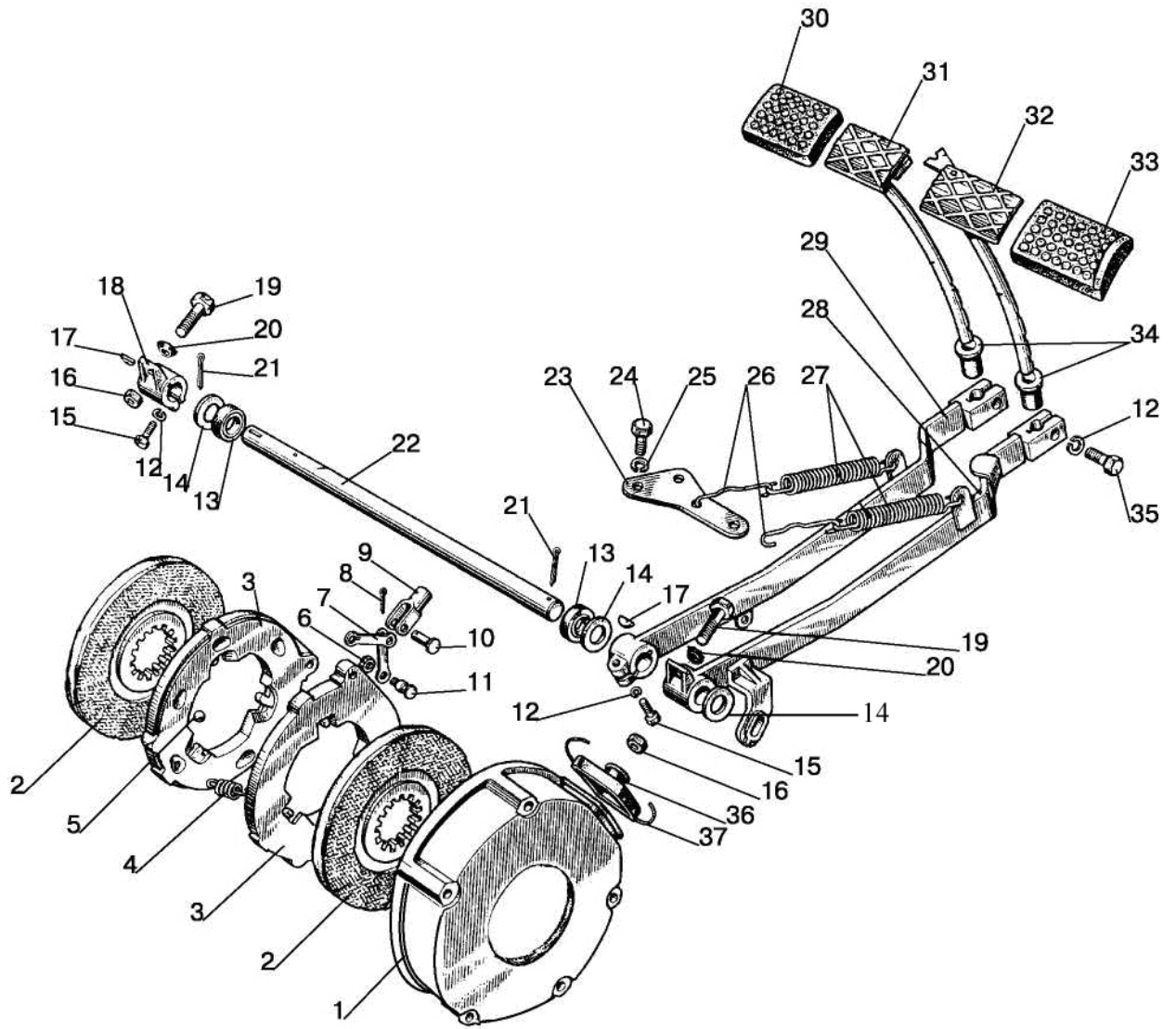


Fig. 35.1. Brakes. Brakes control

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

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

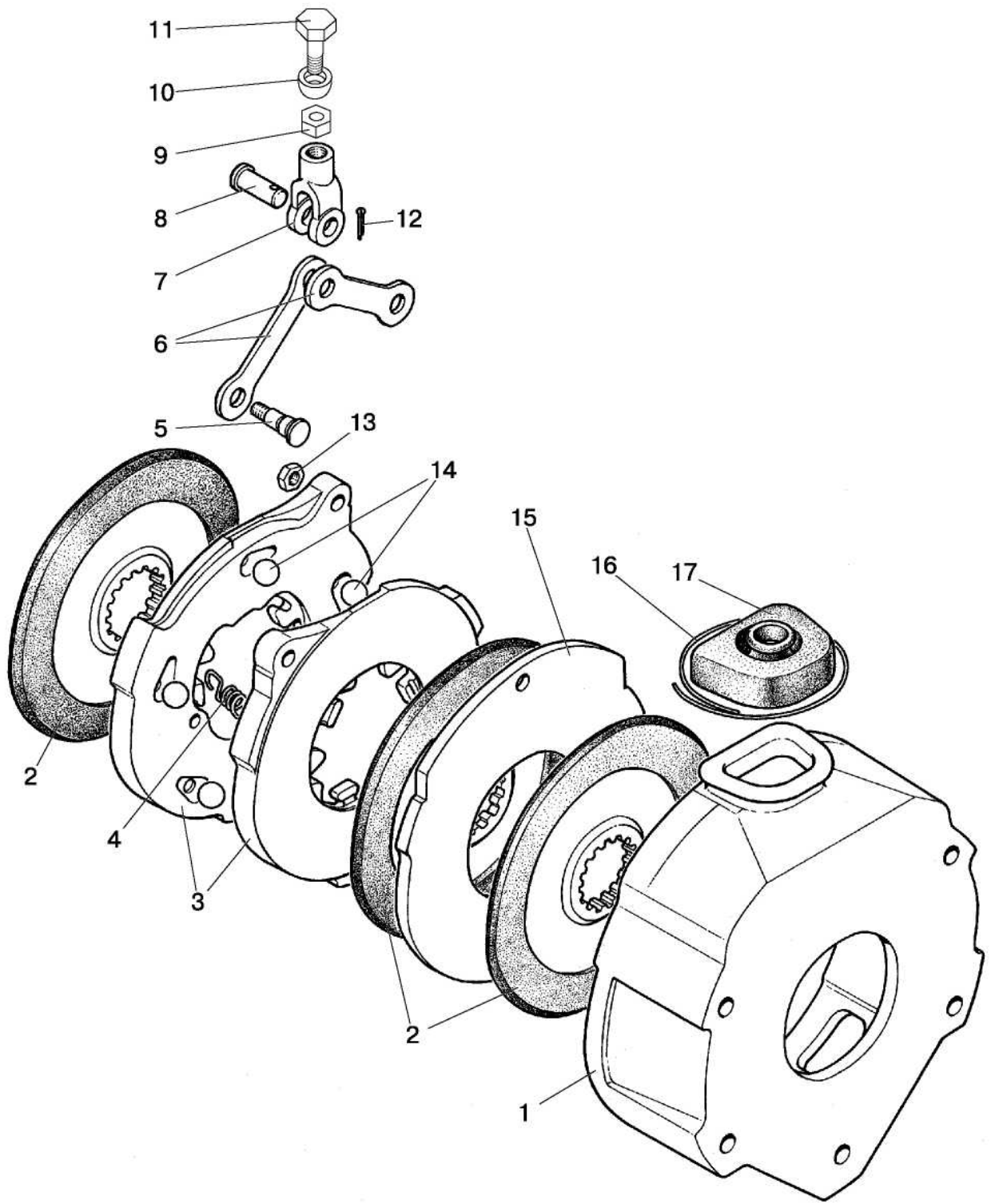


Fig. 35.2. Brakes (variant of configuration)

**Group 35. Brakes
Subgroup 3502. Brakes (variant of configuration)**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
35.2		1522-3502010	2	Brake (1-8, 12-17)
		70-3503080	2	Brake rod (9-11)
		85-3502030	2	Pressure disk (3-8, 12-14)
	1	1522-3502035	2	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	2	Pin
	9	M12x1,25	2	Nut
	10	70-3503018	2	Washer
	11	70-3503019	2	Bolt
	12	3,2x18	2	Cotter pin
	13	M8	4	Nut
	14	22,225-100	10	Ball
15	1522-3502037-Б	2	Disk	
16	1,6x300	2	Wire	
17	50-3502202	2	Hood	

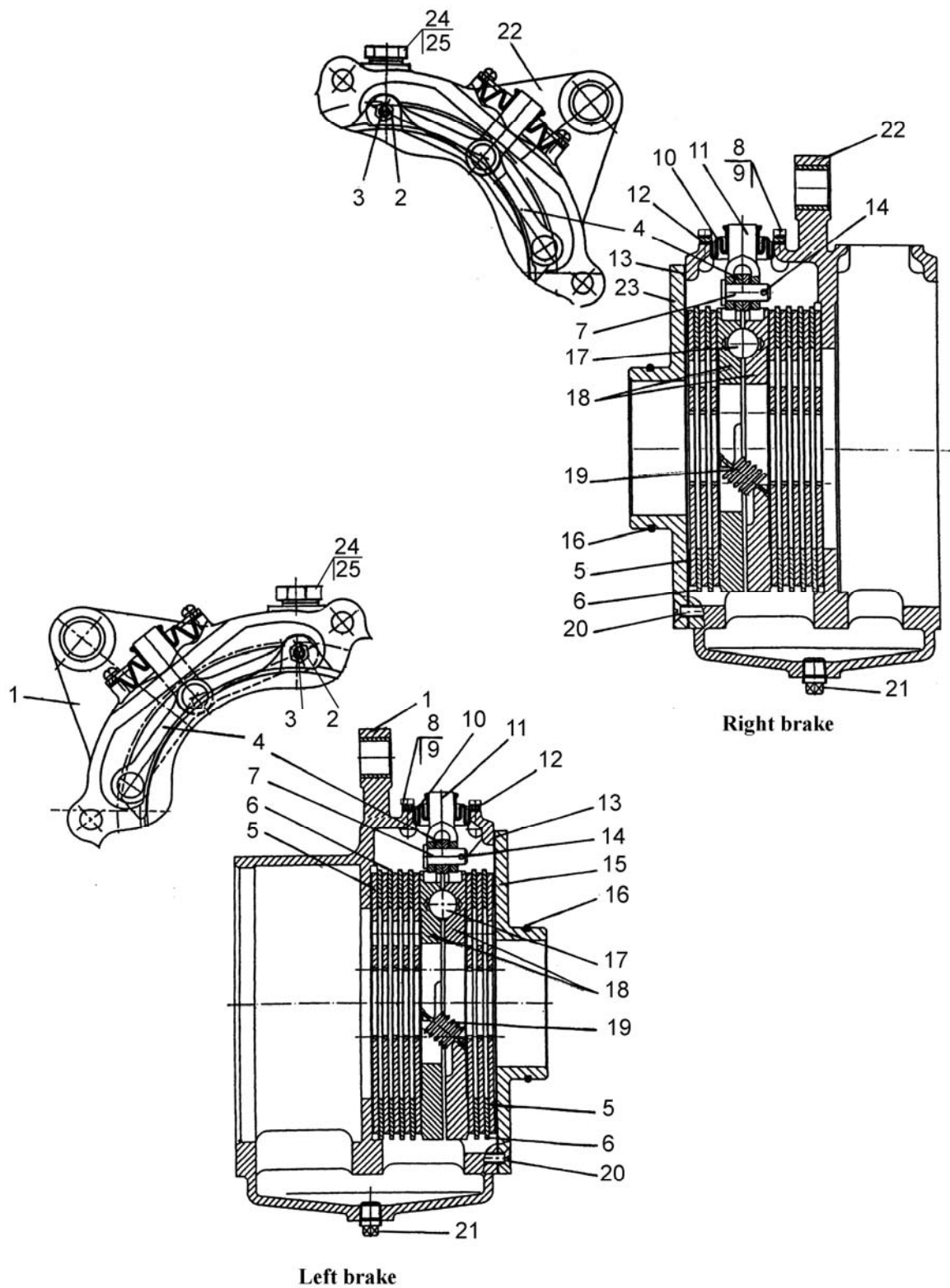


Fig. 35.3. "Wet" brakes

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

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

* Selected by assembling to provide a required clearance

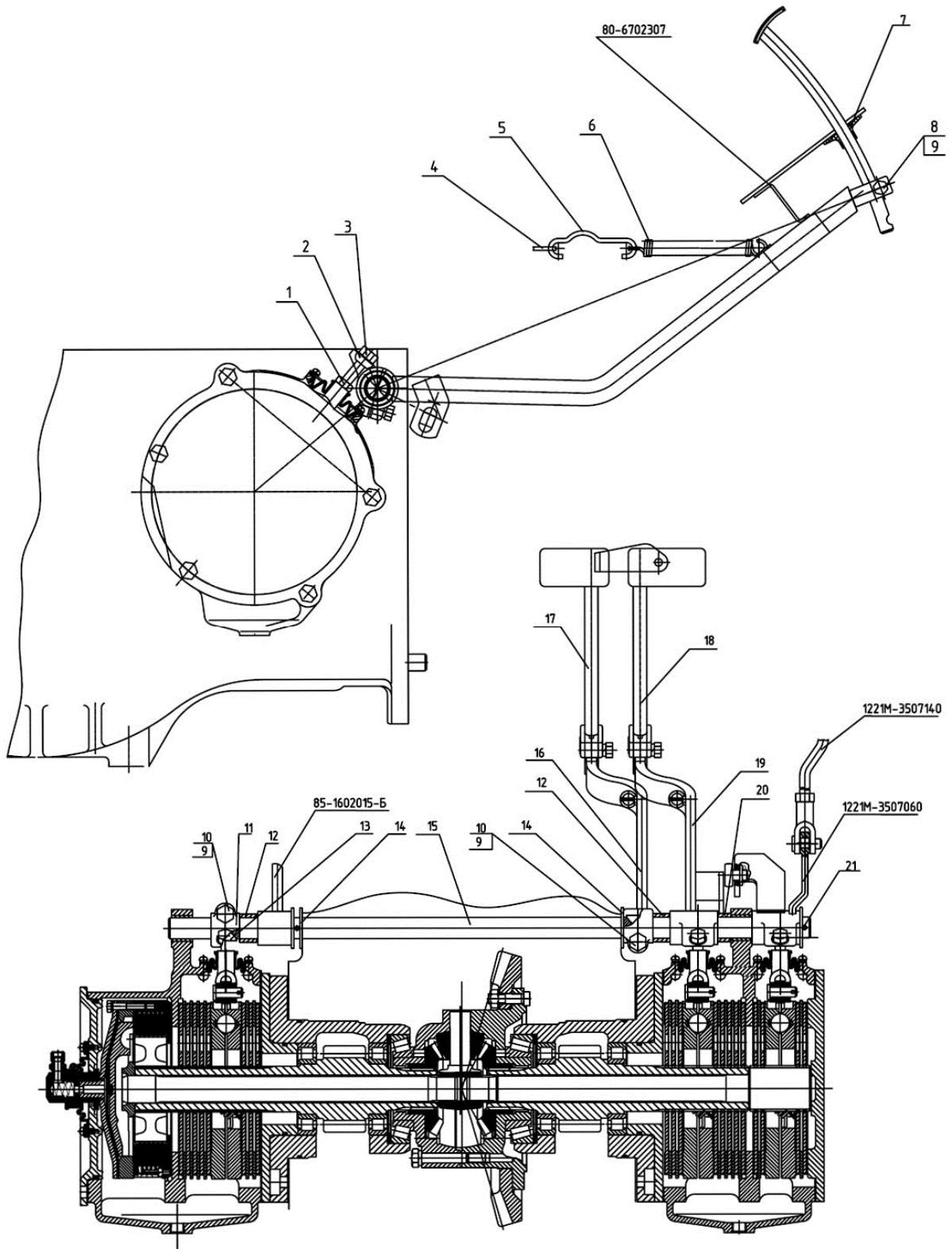


Fig. 35.4. "Wet" brakes control

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

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

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

* For brakes reverse control

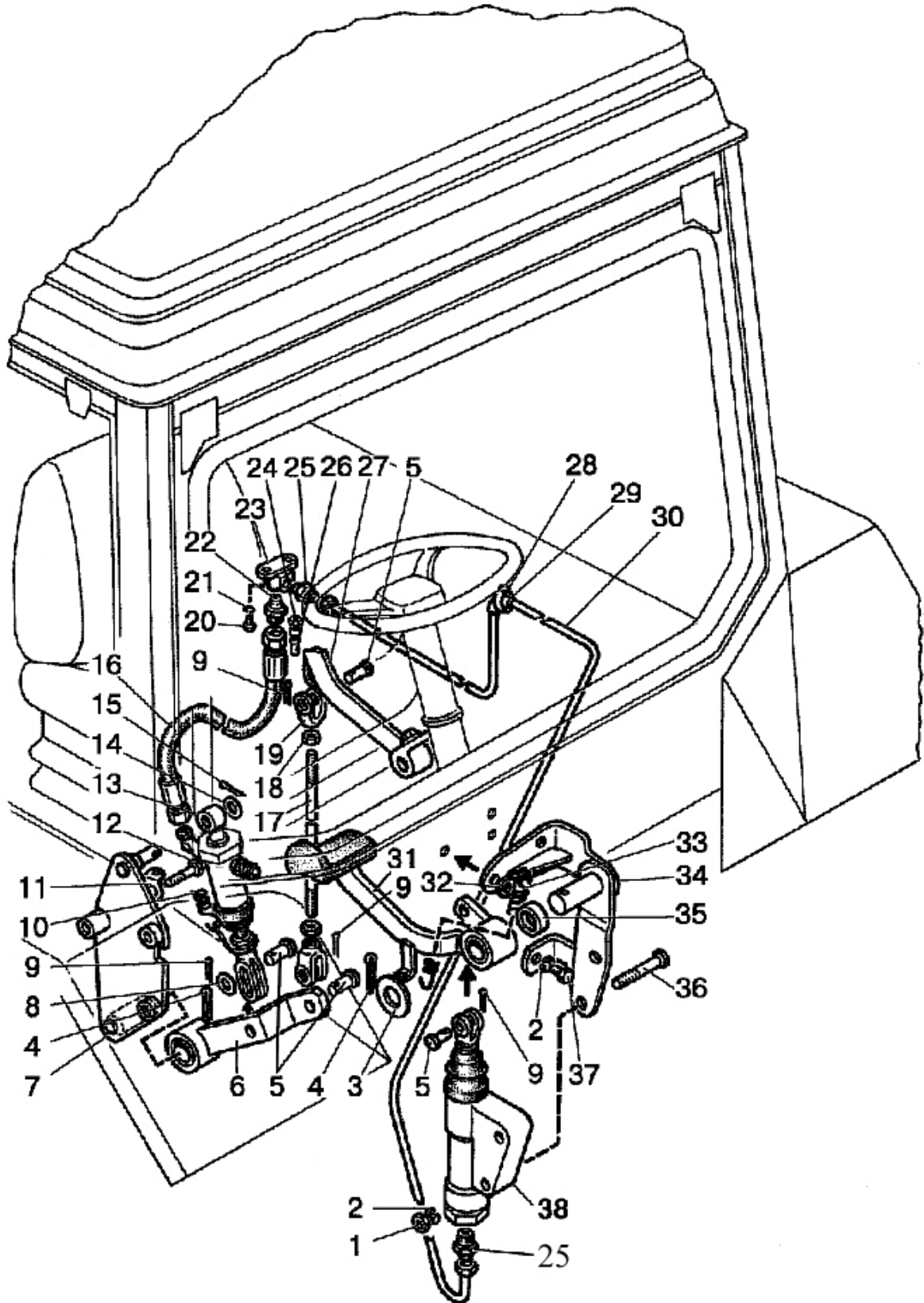


Fig. 35.4a. Brakes control ("BELARUS-1221B/1221B.2")

**Group 35. Brakes
Subgroup 3503. Brakes control
("BELARUS-1221B/1221B.2")**

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
35.4a	1	M10	2	Nut
	2	ШП 10	8	Washer
	3	50-3503071	1	Washer
	4	5x36	2	Cotter pin
	5	12x32	4	Pin
	6	1221B-3503760	1	Lever
	7	1221B-3503755	1	Bracket
	8	ШЧ 12	1	Washer
	9	3,2x18	4	Cotter pin
	10	822-3503702	1	Spring
	11	85B-3503705	1	Ear
	12	M10x60	1	Bolt
	13	1221B-3503550-A	1	Operating cylinder
	14	ШЧ 16	1	Washer
	15	4x22	1	Cotter pin
	16	923-3503200-01	1	Brakes flexible sleeve type IV
	17	85B-3503771	1	Rod
	18	M12x1,25	2	Nut
	19	50-3502203	2	Fork
	20	M8x16	2	Bolt
	21	ШП 8	2	Washer
	22	822-3503155	1	Union
	23	80B-1602106-Б	1	Elbow
	24	Д80-4607212	1	Nut
	25	822-3503701	2	Union
	26	923-3503221	1	Nipple
	27	1221B-3503110	1	Lever
	28	80-3723045	3	Collar
	29	48A-3801023	3	Pipe
	30	1221B-3503740	1	Reverse pipe
	31	1221B-3503730	1	Reverse pedal
	32	80-1602116	1	Ear
	33	70-4616033 зам	1	Spring
	34	80B-3503720	1	Bracket
	35	80У-1602143	1	Bushing
	36	M10x70	2	Bolt
	37	M10x20	6	Bolt
	38	1221B-1602610	1	Main cylinder

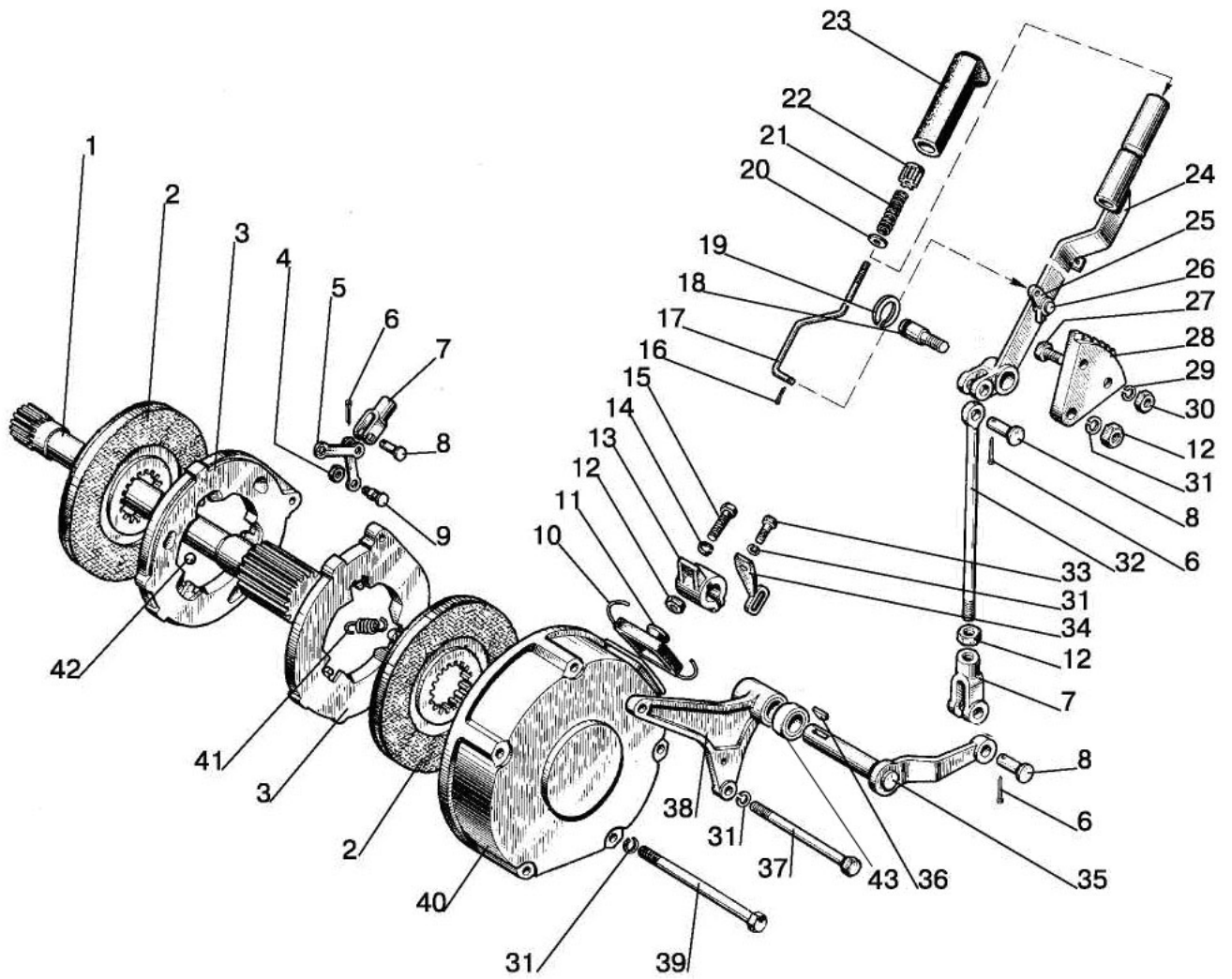


Fig. 35.5. Parking brake, parking brake control

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

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

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

* By double-disk brakes installation

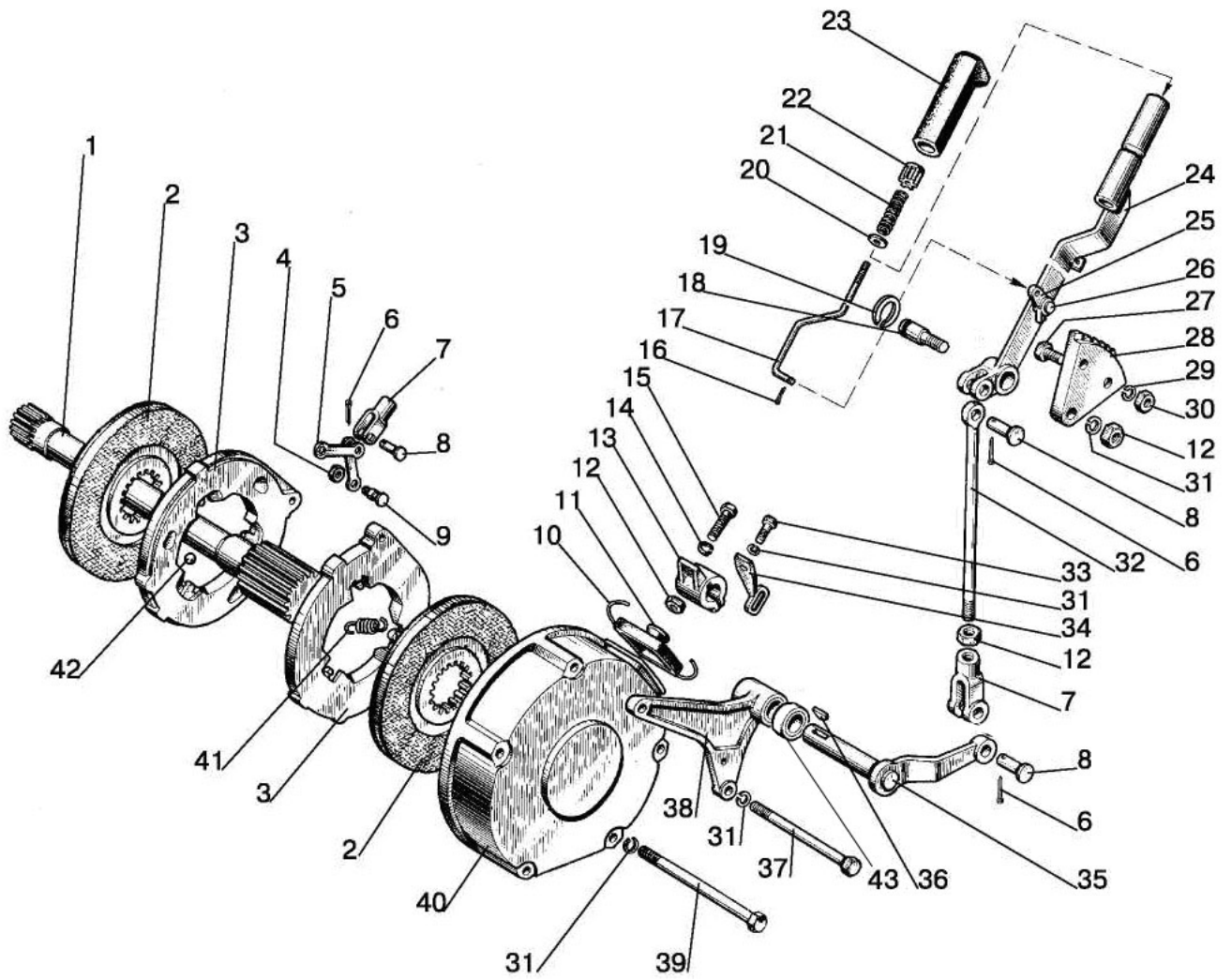


Fig. 35.5. Parking brake, parking brake control

Group 35.Brake.
Subgroup 3504, 3507. Parking brake.
Parking brake control

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

ГOCT – Government Standard (GOST)/State Standard

* By double-disk brakes installation

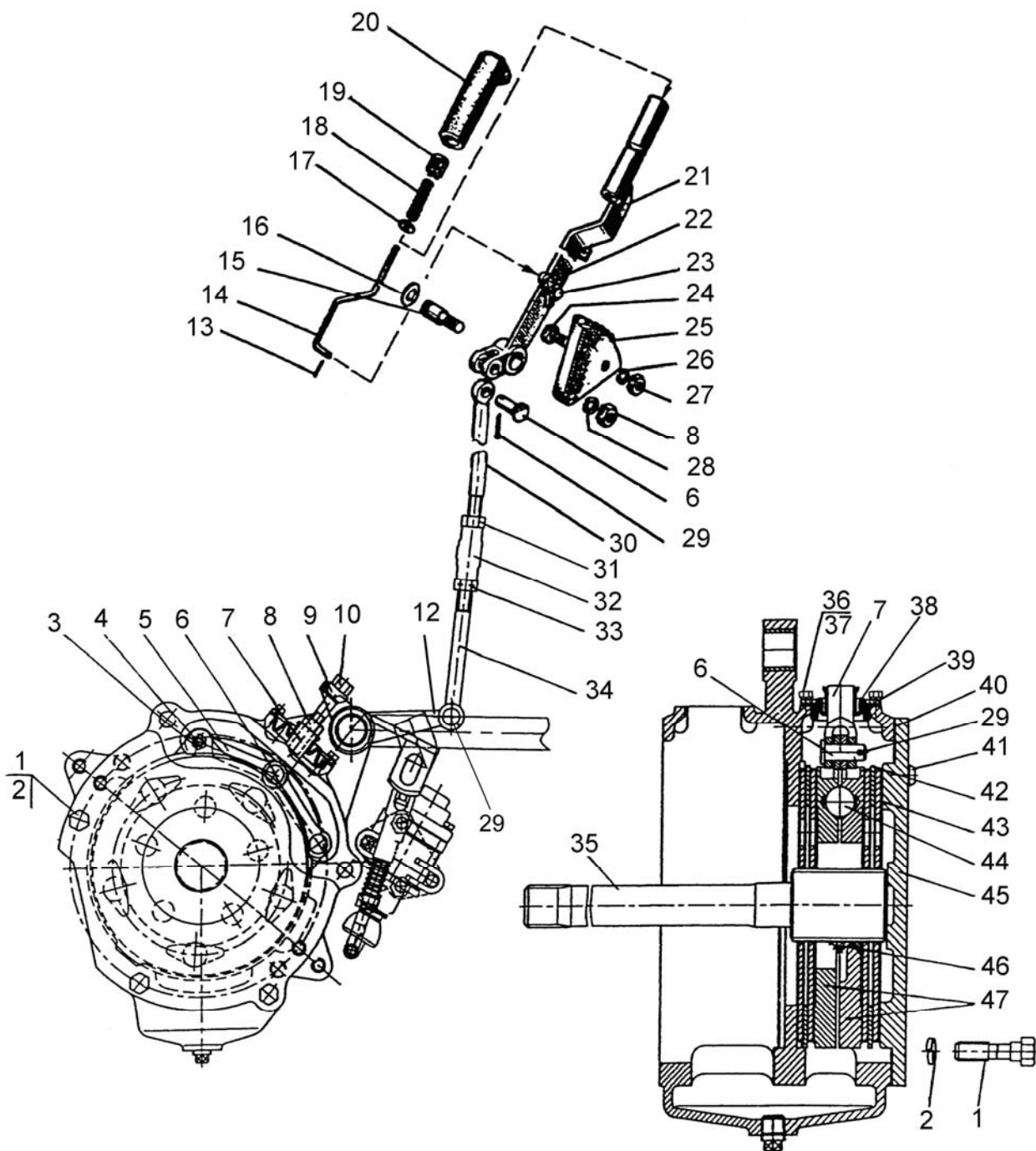


Fig. 35.6. Parking brake. Parking brake control (for "wet" brakes)

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

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

GOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

* Selected by assembling to provide required clearance

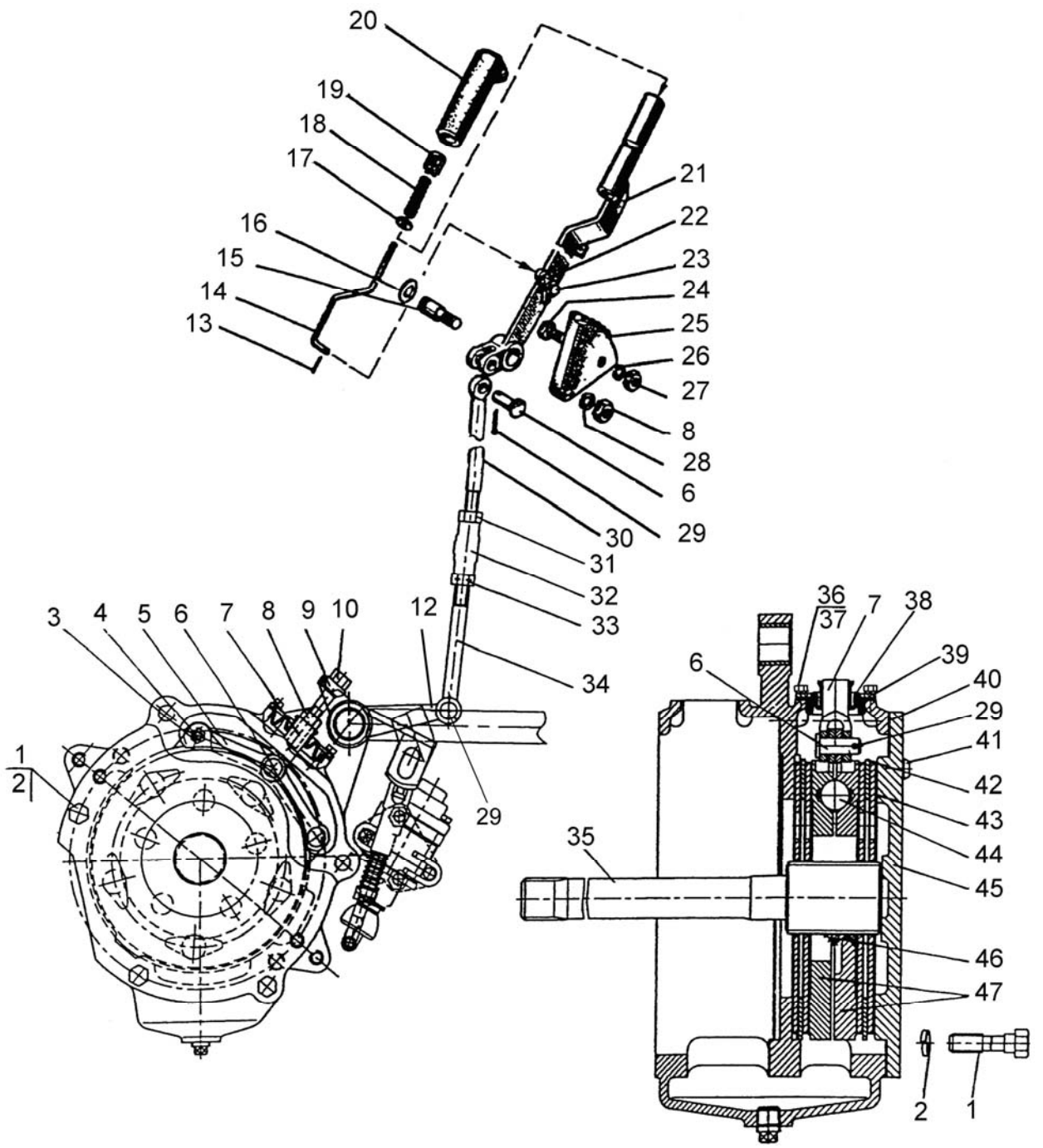


Fig.35.6. Parking brake. Parking brake control

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

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

ГOCT – Government Standard (GOST)/State Standard

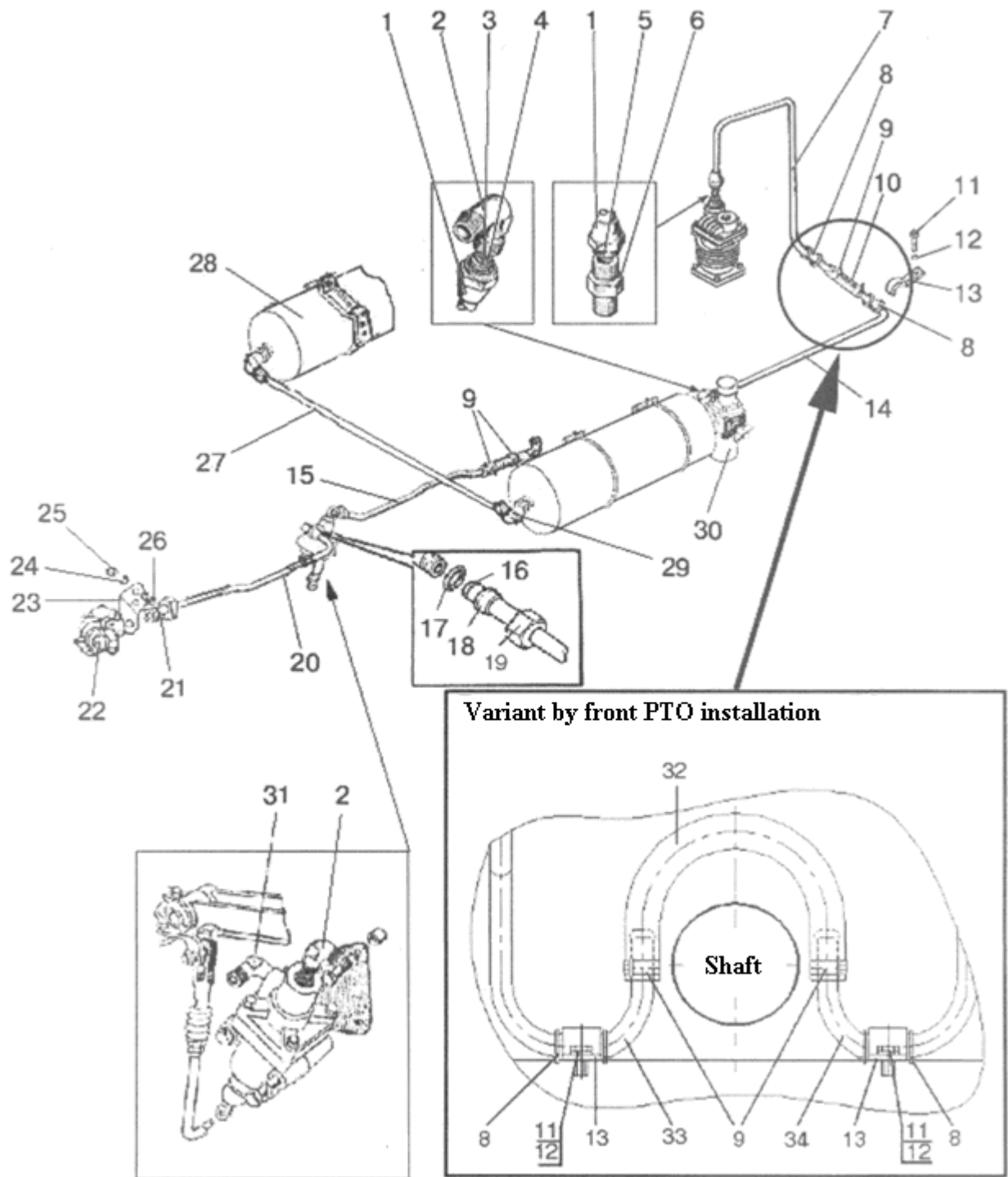


Fig. 35.7. Pipelines and fittings of of the single-wire pneumatic drive of the trailer brakes

Group 35. Brakes
Subgroup 3506. Pipelines and fittings fittings of of the single-wire pneumatic drive of the trailer brakes

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
35.7		1220-3506620	1	Pipeline (1,5,7)
		1221-3506510	1	Pipeline (1,4,14)
		85-3506150	1	Pipeline (1,4,15)
		1522M-3506050	1	Pipeline (16-20)
		923-3506020*	1	Pipeline (16-19,27)
	1	70-3506023	3	Nut
	2	70-3506033	1	Elbow
	3	014-017-19-2-4	2	Ring
	4	70-3506028	2	Coupling
	5	80-3506024	1	Coupling
	6	70-3506022	1	Union
	7	1220-3506621	1	Pipeline
	8	70-3506027	2	Bushing
	9	5000.02	4	Clamp with worm thread 16-27
	10	70-1405013	3	Hose
	11	M8x16	2	Bolt
	12	ШП 8	2	Washer
	13	70-6804011	2	Hold
	14	1221-3506511	1	Pipeline
	15	85-3506151	1	Pipeline
	16	1522-3506022	2(4*)	Nipple
	17	012-015-19-2-4	2(4*)	Ring
	18	1522-3506024	2(4*)	Coupling
	19	1522-3506023	2(4*)	Nut
	20	1522M-3506051	1	Pipe
	21	1522-3521012	1	Union
	22	A29.76.000 or 80-3521010	1	Coupling head
	23	70-3521012	1	Bracket
	24	ШП 10	2	Washer
	25	M10	2	Nut
	26	M10x25	2	Bolt
	27	923-3506021*	1	Pipe
	28	50-3513015-A*	1	Receiver
	29	80-3513050*	1	T-piece
30	A29.51.000 Б or 80-3512010	1	Pressure regulator	
31	1522-3514033	1(2*)	Elbow	
32	85-3407332	1	Connecting hose	
33	1221-3506620	1	Pipeline	
34	1221-3506610	1	Pipeline	

* Optional

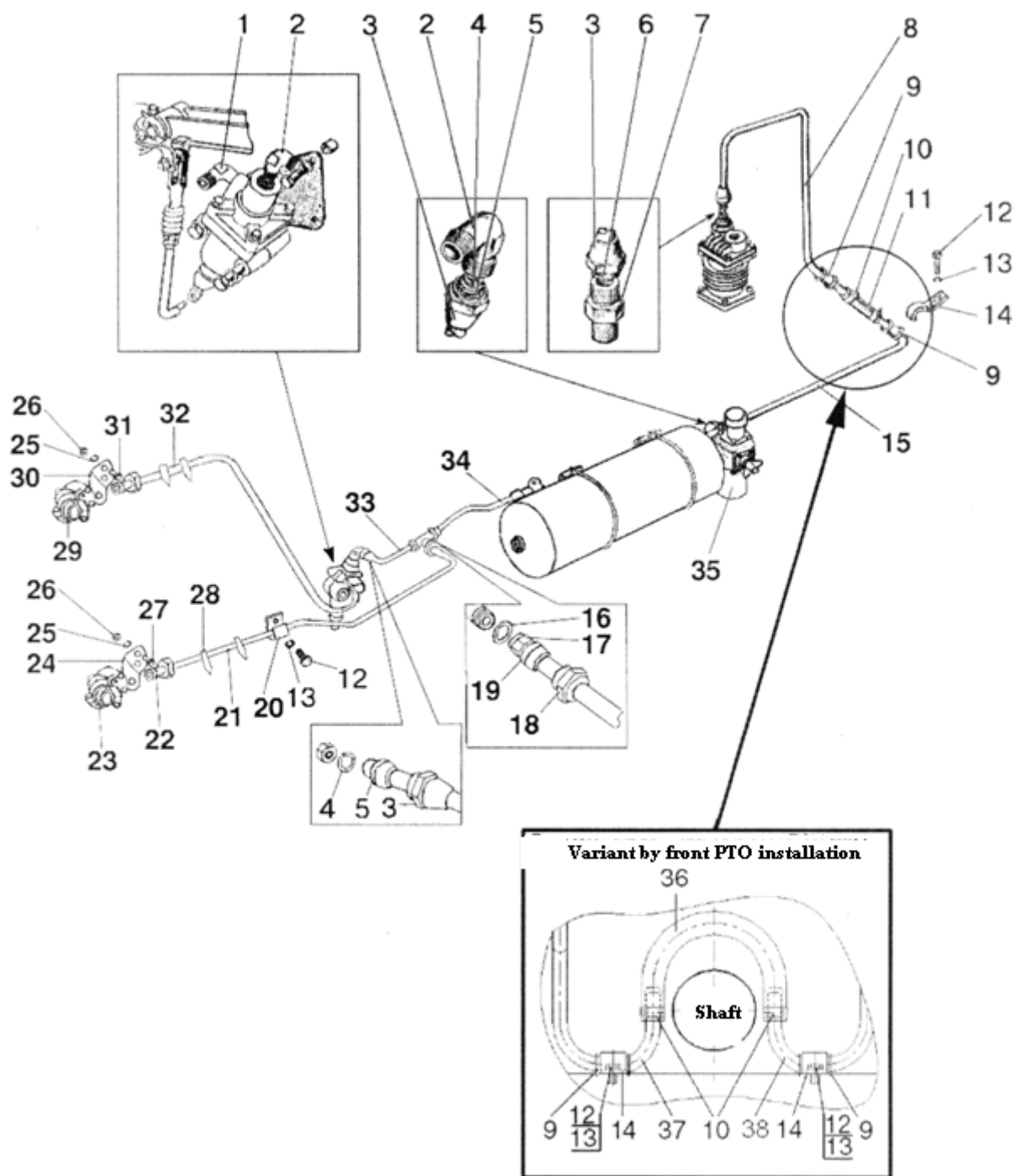


Fig. 35.8. Pipelines and fittings of the double-wire pneumatic drive of the trailer brakes

Group 35. Brakes
Subgroup 3506. Pipelines and fittings of the double-wire pneumatic drive of the trailer brakes

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
35.8		1220-3506620	1	Pipeline (3, 6, 8)
		1221-3506510	1	Pipeline (3, 4, 5, 15)
		1021-3506020	1	Pipeline (17-19, 34)
		1025-3506540	1	Pipeline (3, 5, 33)
		1025-3506560-01	1	Pipeline (17-19, 21)
		1025-3506560-02	1	Pipeline (17-19, 32)
	1	1522-3514033	1	Elbow
	2	70-3506033	2	Elbow
	3	70-3506023	3	Nut
	4	014-017-19-2-4	2	Ring
	5	70-3506028	2	Coupling
	6	80-3506024	1	Coupling
	7	70-3506022	1	Union
	8	1220-3506621	1	Pipeline
	9	70-3506027	2	Bushing
	10	XC-21	2	Clamp
	11	70-1405013	1	Hose
	12	M8x16	2(3*)	Bolt
	13	ШП 8	2(3*)	Washer
	14	70-6804011	2	Hold
	15	1221-3506511	1	Pipeline
	16	012-015-019-2-4	6	Ring
	17	1522-3506022	6	Nipple
	18	1522-3506023	6	Captive nut
	19	1522-3506024	6	Coupling
	20	70-4802046*	1	Clamp
	21	1025-3506561-01	1	Pipe
	22	1522-3521513	2	Union
	23	64226-3521110	1	Coupling head
	24	1025-3521511	1	Bracket
	25	ШП 10	4	Washer
	26	M10	4	Nut
	27	M10x25	2	Bolt
	28	80-3723045-01	4	Collar
	29	64226-3521111	1	Coupling head
	30	1025-3521512	1	Bracket
	31	BM8x25	2	Screw
	32	1025-3506561-02	1	Pipe
33	1025-3506550	1	Pipeline	
34	1021-3506021	1	Pipe	
35	A29.51.000 Б or 80-3512010	1	Pressure regulator	
36	85-3407332	1	Connecting hose	
37	1221-3506620	1	Pipeline	
38	1221-3506610	1	Pipeline	

* For dry brakes

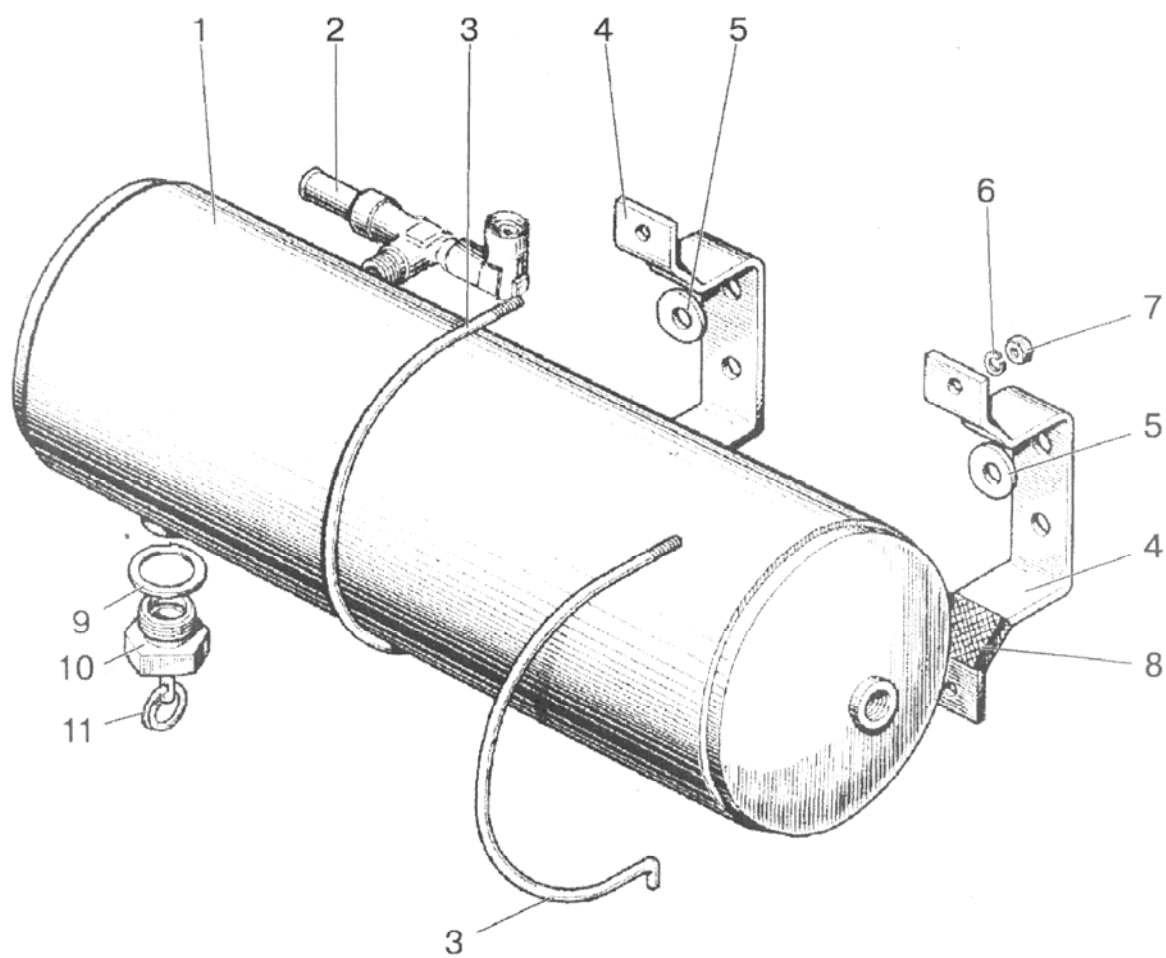


Fig. 35.9. Air receiver

Group 35.Breakes
Subgroup 3513. Air receiver

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description
35.9	1	80-3513010	1	Air receiver
		85-3513010*	1	Air receiver
	2	80-3513015**	1	T-piece
		80-3513025***	1	T-piece
	3	B50-3513032	2(4*)	Clamp
	4	B50-3513025-A	2(4*)	Bracket
	5	ШЧ 16	2(4*)	Washer
	6	ШП 6	2(4*)	Washer
	7	M6	2(4*)	Nut
	8	ПР-43-01	4(8*)	Seal
	9	B50-3522023	1(2*)	Gasket
10	85-3513110	1(2*)	Valve	
11	H50-4202146	1(2*)	Ring	

* Optional

** For single-wire pneumatic drive

*** For double-wire pneumatic drive

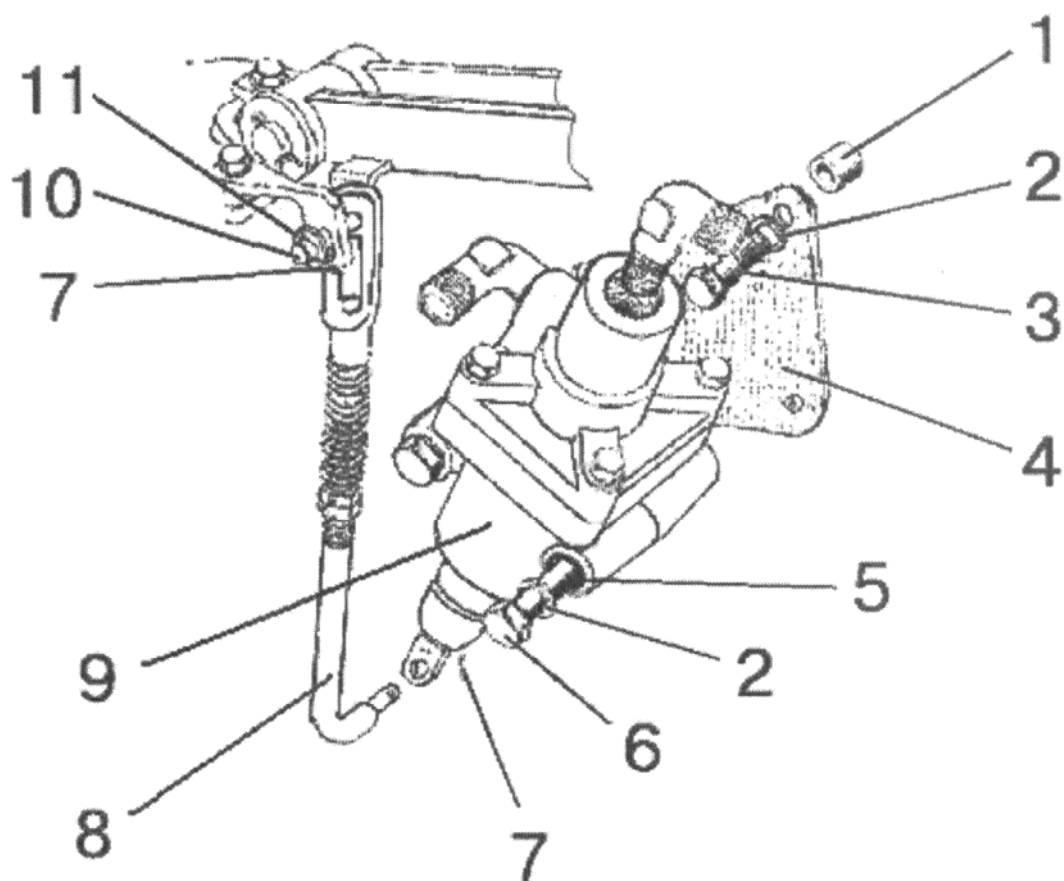


Fig. 35.10. Brake valve

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

Fig. No	Pos. No	Assembly unit or part No	Q-ty	Description	
35.10	1	80-3514012	2	Lug boss	
	2	ШП 10	4	Washer	
	3	M10x40	2	Bolt	
	4	85M-3514011	1	Bracket	
	5	ШЧ 10	1	Washer	
	6	M10x70	2	Bolt	
	7	3,2x18	2	Cotter pin	
	8	80-3514130	1	Rod	
	9	A29.3514010 or 80-3514010		1	Brake valve
		A29.3514010-01* or 80-3514010-01*		1	Brake valve
		A29.3514010-02** or 80-3514010-02**		1	Brake valve
10	12x40	1	Pin		
11	ШЧ 12	2	Washer		

* Optional

** For double-wire pneumatic drive

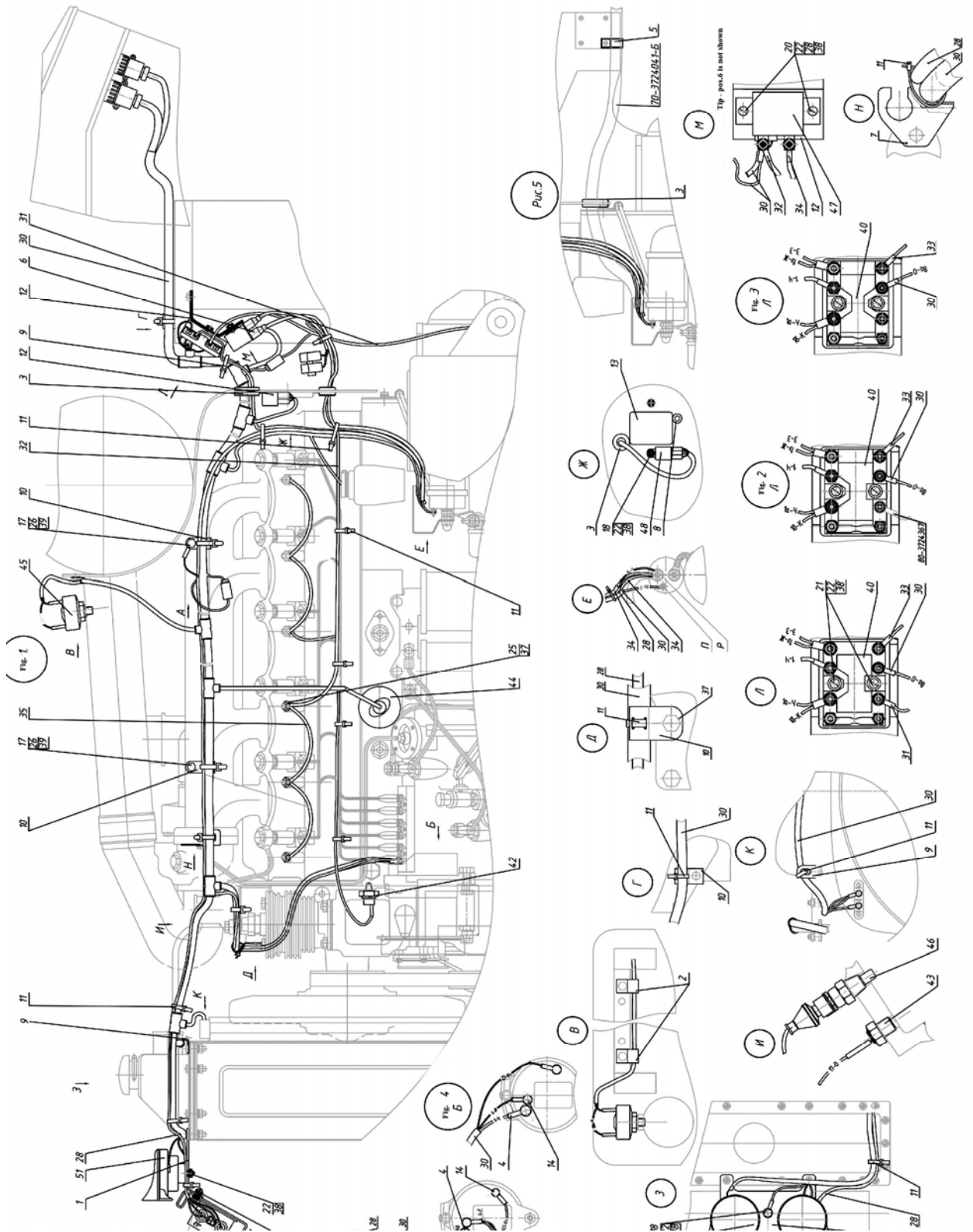


Fig. 37.1. Electrical equipment of engine

Note to Fig. 37.1

Indication	Fig.	Note
1221-3700030-Д	1	For tractors with accumulator battery outside a cab, plugs 24V
1221-3700030-Д-01	2, 5	For tractors with accumulator battery in a cab, plugs 24V
1221-3700030-Д-02	3, 4	For tractors with accumulator battery outside a cab, plugs 12V
1221-3700030-Д-03	3, 4, 5	For tractors with accumulator battery in a cab, plugs 12V
1221-3700030-Д-04	1	For tractors with accumulator battery outside a cab, without start facilitation devices, 24V
1221-3700030-Д-05	2, 5	For tractors with accumulator battery in a cab, without start facilitation devices, 24V
1221-3700030-Д-06	3, 4	For tractors with accumulator battery outside a cab, without start facilitation devices, 12V
1221-3700030-Д-07	3, 4, 5	For tractors with accumulator battery in a cab, without start facilitation devices, 12V

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

Fig.No	Pos. No	Assembly unit or part No	Quality for completing 1221-3700030-Д-							Description	
			-	01	02	03	04	05	06		07
37.1	1	1221-3759011	1	1	1	1	1	1	1	1	Bracket
	2	50-3723021	1	1	1	1	-	-	-	-	Clamp
	3	50-4607064	1	2	1	2	1	2	1	2	Bushing
	4	TM-59-6000-38	1	1	1	1	1	1	1	1	Rubber tip
	5	70-1115012-01	1	2	1	2	1	2	1	2	Clip
	6	70-3723035	4	4	2	2	2	2	-	-	Tip
	7	70-3723041	1	1	1	1	1	1	1	1	Bracket
	8	70-3723042-02	1	1	1	1	1	1	1	1	Bushing
	9	70-6702111	1	1	1	1	1	1	1	1	Elbow
	10	80-3723016	3	3	3	3	3	3	3	3	Bracket
	11	80-3723045-01	21	21	20	20	23	23	22	22	Collar
	12	80-3747021	1	1	1	1	1	1	1	1	Bracket
	13	1220-3805073	1	1	1	1	1	1	1	1	Cover
	14	M2-14.13.238	2	2	2	2	2	2	2	2	Cover
	17	M8x20	2	2	2	2	2	2	2	2	Bolt
	18	M6x20	6	6	4	4	5	5	3	3	Bolt
	20	BM6x10	2	2	2	2	-	-	-	-	Screw
	21	BM6x20	2	2	2	2	2	2	2	2	Screw
	22	M6	12	12	10	10	9	9	7	7	Nut
	25	M5	6	6	6	6	6	6	6	6	Nut
	26	ШЧ 8	2	2	2	2	2	2	2	2	Washer
	28	80-3724345-B	1	1	-	-	1	1	-	-	Harness
	30	1221-3724360-Г	1	1	1	1	-	-	-	-	Harness
		1221-3724363-Б	-	-	-	-	1	1	1	1	
	31	1221B-3724340-B	1	-	1	-	1	-	1	-	Harness
	32	1221-3724380-A	1	1	1	1	-	-	-	-	Harness
	33	80-3724368-Б	1	1	1	1	1	1	1	1	Wire
	34	80-3724381	1	1	1	1	-	-	-	-	Wire
	35	1221-3724383	4	4	4	4	-	-	-	-	Wire
	37	ШП 5	6	6	6	6	6	6	6	6	Washer
	38	ШП 6	12	12	10	10	9	9	7	7	Washer
	39	ШП 8	2	2	2	2	2	2	2	2	Washer
	40	3722.40	1	1	1	1	1	1	1	1	Fuse box

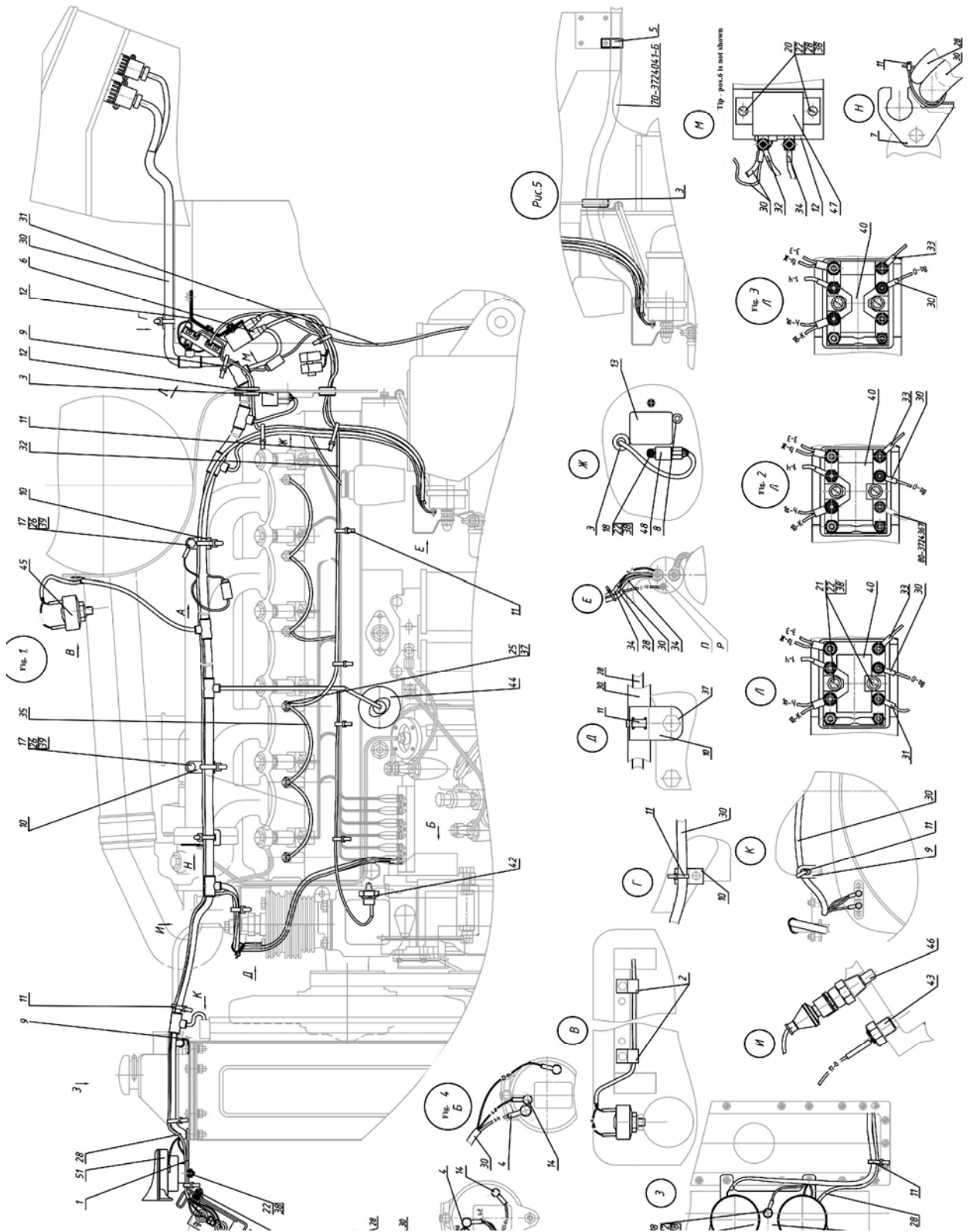


Fig. 37.1. Electrical equipment of engine

Note to Fig. 37.1

Indication	Fig.	Note
1221-3700030-Д	1	For tractors with accumulator battery outside a cab, plugs 24V
1221-3700030-Д-01	2, 5	For tractors with accumulator battery in a cab, plugs 24V
1221-3700030-Д-02	3, 4	For tractors with accumulator battery outside a cab, plugs 12V
1221-3700030-Д-03	3, 4, 5	For tractors with accumulator battery in a cab, plugs 12V
1221-3700030-Д-04	1	For tractors with accumulator battery outside a cab, without start facilitation devices, 24V
1221-3700030-Д-05	2, 5	For tractors with accumulator battery in a cab, without start facilitation devices, 24V
1221-3700030-Д-06	3, 4	For tractors with accumulator battery outside a cab, without start facilitation devices, 12V
1221-3700030-Д-07	3, 4, 5	For tractors with accumulator battery in a cab, without start facilitation devices, 12V

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

Fig.No	Pos. No	Assembly unit or part No	Quality for completing 1221-3700030-Д-							Description	
			-	01	02	03	04	05	06		07
37.1	42	3829.15	1	1	1	1	1	1	1	1	Emergency oil pressure sensor
	44	3829.10	1	1	1	1	1	1	1	1	Oil-pressure sensor in engine
	45	3845.10	1	1	1	1	1	1	1	1	Plugged air cleaner sensor
	46	3828.10	1	1	1	1	1	1	1	1	Temperature sensor
	47	3747.35	1	1	1	1	-	-	-	-	Heating plug relay
	48	3747.50	1	1	1	1	1	1	1	1	Cut in relay 30A
	50	3721.15	1	1	1	1	1	1	1	1	Low-pitch beeb
	51	3721.20	1	1	1	1	1	1	1	1	High-pitch beeb
52	3859.10	1	1	-	-	1	1	-	-	Voltage converter	

Note to Fig. 37.2

Indication	Fig.	Note
1221-3700040-Б	1	Complete set modification
1221-3700040-Б-01	2	With additional fuel tank
1221-3700040-Б-02	1;3	Complete set modification without pneumatic system
1221-3700040-Б-03	2;4	With additional fuel tank without pneumatic system

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

Fig.No	Pos. No	Assembly unit or part No	Quality for completing 1221-3700040-Б-				Description
			-	01	02	03	
37.2	1	80-3723016	1	1	1	1	Bracket
	3	80-3723045-01	13	12	12	13	Collar
	4	85-1702051	1	1	-	-	Washer
	5	Д18-055-А	1	1	-	-	Sealing ring
	7	1221-3724317-Б	1	-	1	-	Harness
		1221-3724318	-	1	-	1	
	8	80-3724002-Б	-	-	1	1	Wire
	10	3829.20	1	1	-	-	Air pressure sensor
	11	3829.30	1	1	1	1	Oil pressure sensor in GB
	12	3829.25	1	1	-	-	Emergency air pressure sensor
	14	305-TB-40-35	-	-	190	190	Pipe

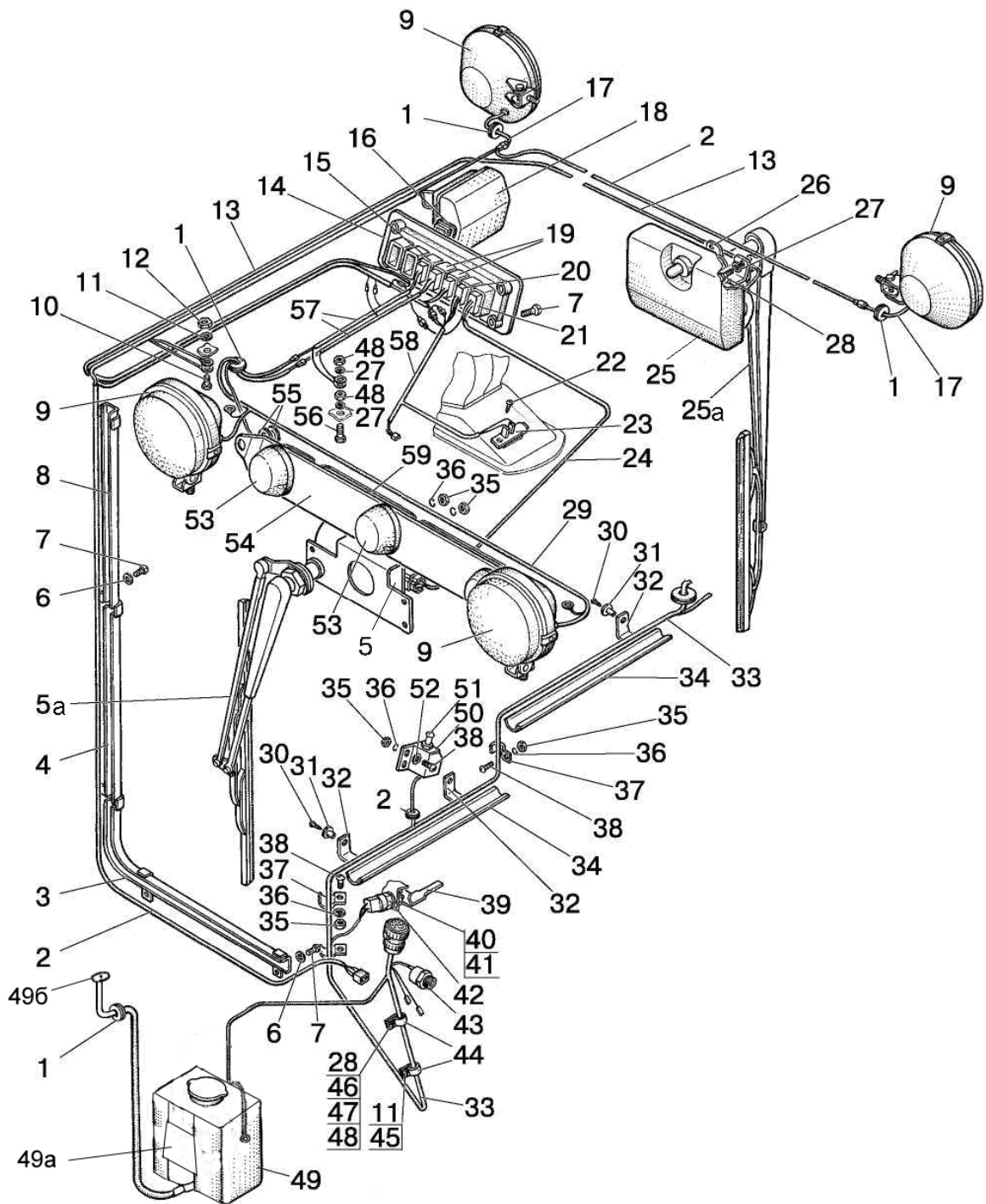


Fig. 37.3. Electrical equipment of cabin. Working lamps and rearlights.

**Group 37. Electrical equipment
Subgroup 3700. Electrical equipment of cab.
Working lamps and rear lights.**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.3	1	70-3723042-01	5	Bushing
	2	80-3724351-Г1	1	Harness
	3	80-3723015	1	Duct
	4	80-3723020	1	Duct
	5	5205.10	1	Widescreen wiper
	5a	5205.25	1	Brush with lever 660/600
	6	ШЧ 6	5	Washer
	7	BM6x12	9	Screw
	8	80-3723010	1	Duct
	9	8724.31.06	4	Lamp
	10	M8x14	1	Bolt
	11	ШП 8	1	Washer
	12	M8	1	Nut
	13	80B-3724014	1	Wire
	14	80-3801342	1	Shield
	15	3710.40	1	Road-train sign switch
	16	80-3801327	2	Plug
	17	80-3724035-Б	2	Wire
	18	111.3714	1	Cab roof light
	19	3710.30	2	Working lamp switch
	20	П147М-04.11	1	Change-over switch
	21	3709.25	1	Widescreen wiper switch
	22	4x10	1	Screw
	23	11.3729	1	Additional resistance
	24	80B-3724010	1	Harness
	25	5205.20	1	Windscreen wiper
	25a	5205.30	1	Lever of windscreen wiper 420
	25б	5205.35	1	Wiper blade 460
	26	80-5205031	1	Bracket
	27	ШП 6	5	Washer
	28	M6x16	2	Bolt
	29	80-3724232-Б	1	Harness
	30	2-4x16	4	Bolt screw
	31	A37.10.031	4	Boss
	32	85-3723041-01	4	Clamp
	33	80-3724300-Г1	1	Harness
	34	80-3723025	2	Duct
	35	M5	11	Nut
	36	ШП 5	11	Washer
	37	80-3723038	3	Clamp
	38	BM5x16	3	Screw
	39	85-3710032	1	Lever
	40	85-3710025	1	Nut
	41	ШП 14	1	Washer
	42	BK12-2	1	Switch
	43	ДАДМ-03	1	Sensor
	44	1321-8700029	2	Clamp
45	BM8x25	1	Screw	
46	BM6X25	1	Screw	
47	ШЧ 8	1	Washer	

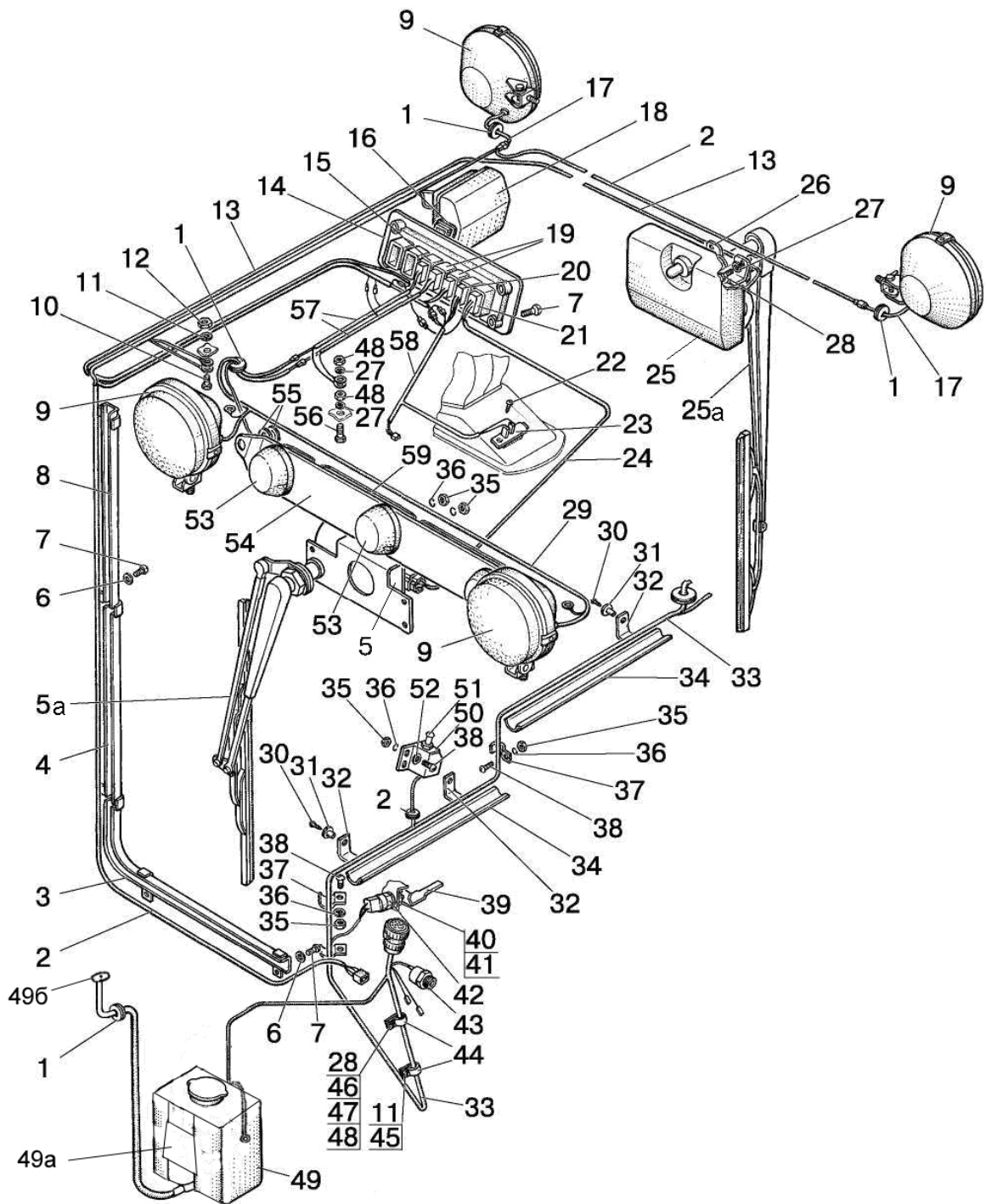


Fig. 37.3. Electrical equipment of cabin. Working lamps and rear lights.

Group 37. Electrical equipment
Subgroup 3700. Electrical equipment кабины.
Working lamps and rear lights

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.3	48	M6	3	Nut
	49	122.5208	1	Windshield washer
	49a	122.5208 304	1	Bracket
	49б	5208.10	1	Jet
	50	80-3710012	1	Bracket
	51	БК-409	1	Switch
	52	ШЧ 5	2	Washer
	53	3738.10	3	Road train light
	54	80-3738001	1	Bracket
	55	80-6708904	4	Gasket
	56	M6x20	1	Bolt
	57	80-3724231-Б	2	Harness
	58	80-3724353-Г	1	Harness
	59	80-3724233-Б	1	Harness

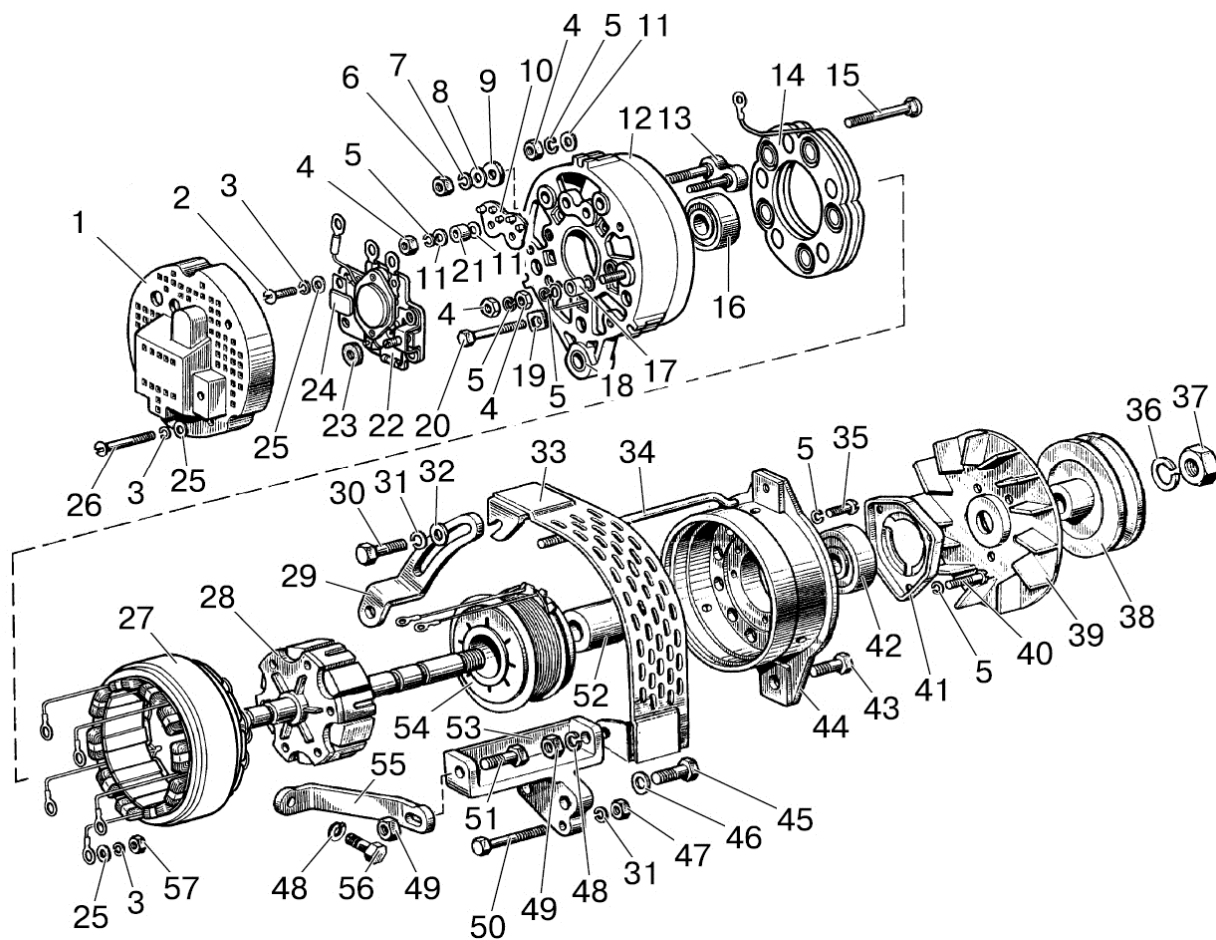


Fig. 37.4. Generator

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.4		Г964.3701-1	1	Generator (1-28, 34-44, 52, 54, 57)
	1	ИЖКС 725325.002-03	1	Cover of adjustment device
	2	ВМ 4x16	3	Screw
	3	ШП 4	9	Washer
	4	М5	7	Nut
	5	ШП 5	12	Washer
	6	М6	3	Nut
	7	ШП 6	3	Washer
	8	ИЖКС 758491.032	2	Washer
	9	ИЖКС 754152.003	1	Insulating washer
	10	ИЖКС 757542.004	1	Insulator kit
	11	ШЧ 5	7	Washer
	12	ИЖКС 301261.037	1	Rear cover
	13	ИЖКС 685158.002	1	Output panel
	14	ИЖКС 435214.002	1	Rectifier
	15	ИЖКС 758165.001	1	Bolt М6
	16	6-180502К1С9	1	Ball bearing
	17	ИЖКС 713141.044	1	Spacer bushing
	18	ИЖКС 711143.007	1	Split bushing
	19	ИЖКС 757513.004	6	Phase insulator kit
	20	ИЖКС 758121.001	3	Bolt М4x25
	21	ИЖКС 713141.041	1	Spacer bushing
	22	СТ14	1	Adjustment device
	23	ИЖКС 754152.004	1	Insulating washer
	24	К73-21В	1	Condenser
	25	ШЧ 4	9	Washer
	26	ИЖКС 758161.002	3	Screw ВМ4x28
	27	ИЖКС 684214.005	1	Stator
	28	ИЖКС 684241.006-02	1	Rotor
	29	240-3701063-02	1	Guide
	30	М8x20	1	Bolt
	31	ШЧ 8	2	Washer
	32	50-1002073	1	Thrust washer
	33	240-3701060-Б	1	Shield
	34	ИЖКС 758191.001	3	Tension bolt
	35	ИЖКС 758151.003	3	Screw ВМ5x14,5
	36	ШП 16	1	Washer
	37	М16x1,5	1	Nut
	38	ИЖКС 712645.001	1	Pulley
	39	ИЖКС 723526.001	1	Fan
	40	ИЖКС 758151.003-01	3	Screw ВМ5x26
	41	ИЖКС 725117.001	1	Bearing cover
	42	6-180603КС9	1	Ball bearing
	43	М10x30	1	Bolt
	44	ИЖКС 301261.035	1	Front cover
	45	М12x35	2	Bolt
	46	245-3701069	2	Washer
	47	М8	1	Nut
	48	ШЧ 10	2	Washer
	49	М10	3	Nut
	50	М8x100	1	Bolt
	51	М10x55	1	Bolt
	52	ИЖКС 713141.039	1	Rotor bushing
53	240-3701056-В	1	Generator bracket	

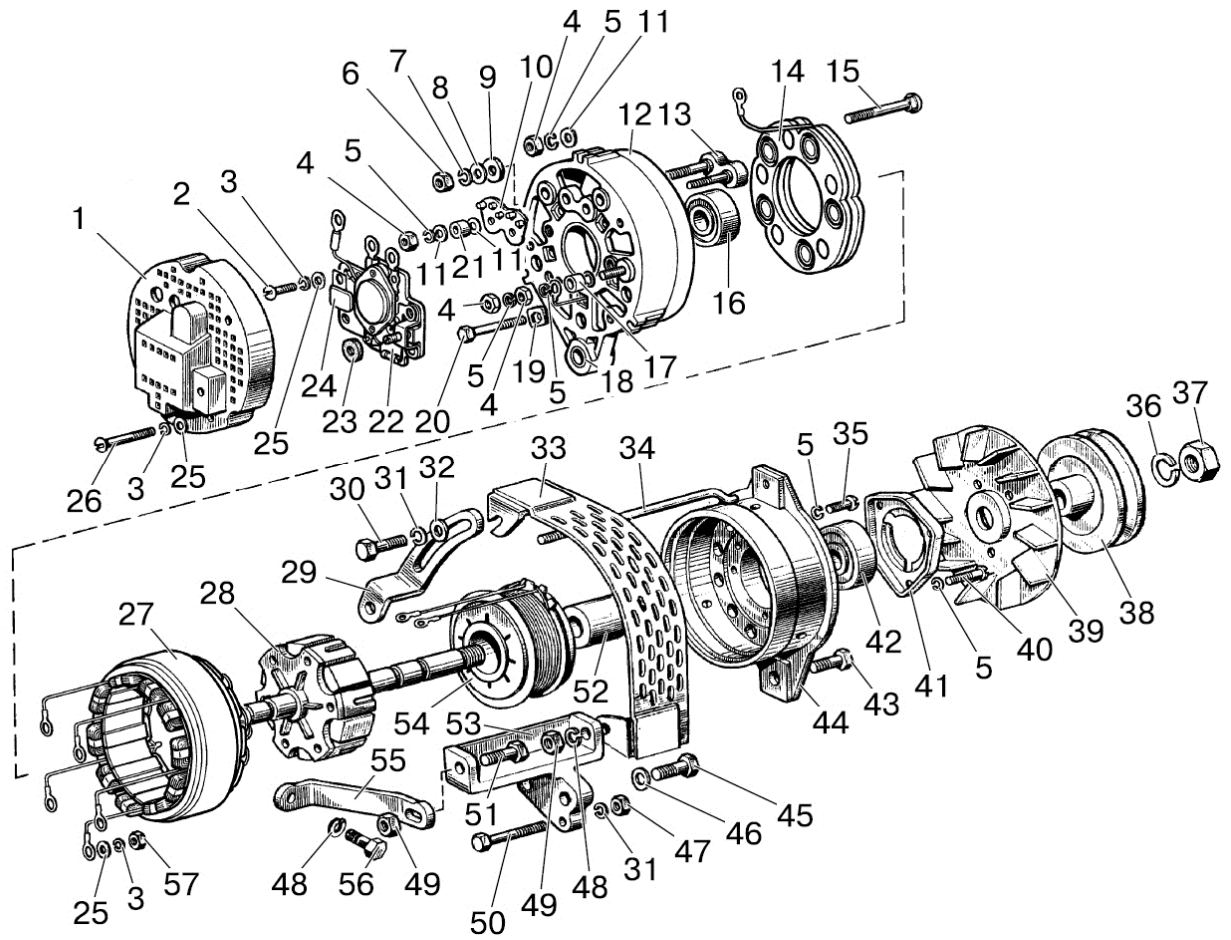


Fig. 37.4. Generator

Group 37. Electrical equipment
Subgroup 3701. Generator

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.4	54	ИЖКК 685442.035	1	Field coil
	55	240-3701068-Б	1	Tension bar
	56	M10x20	1	Bolt
	57	M4	3	Nut

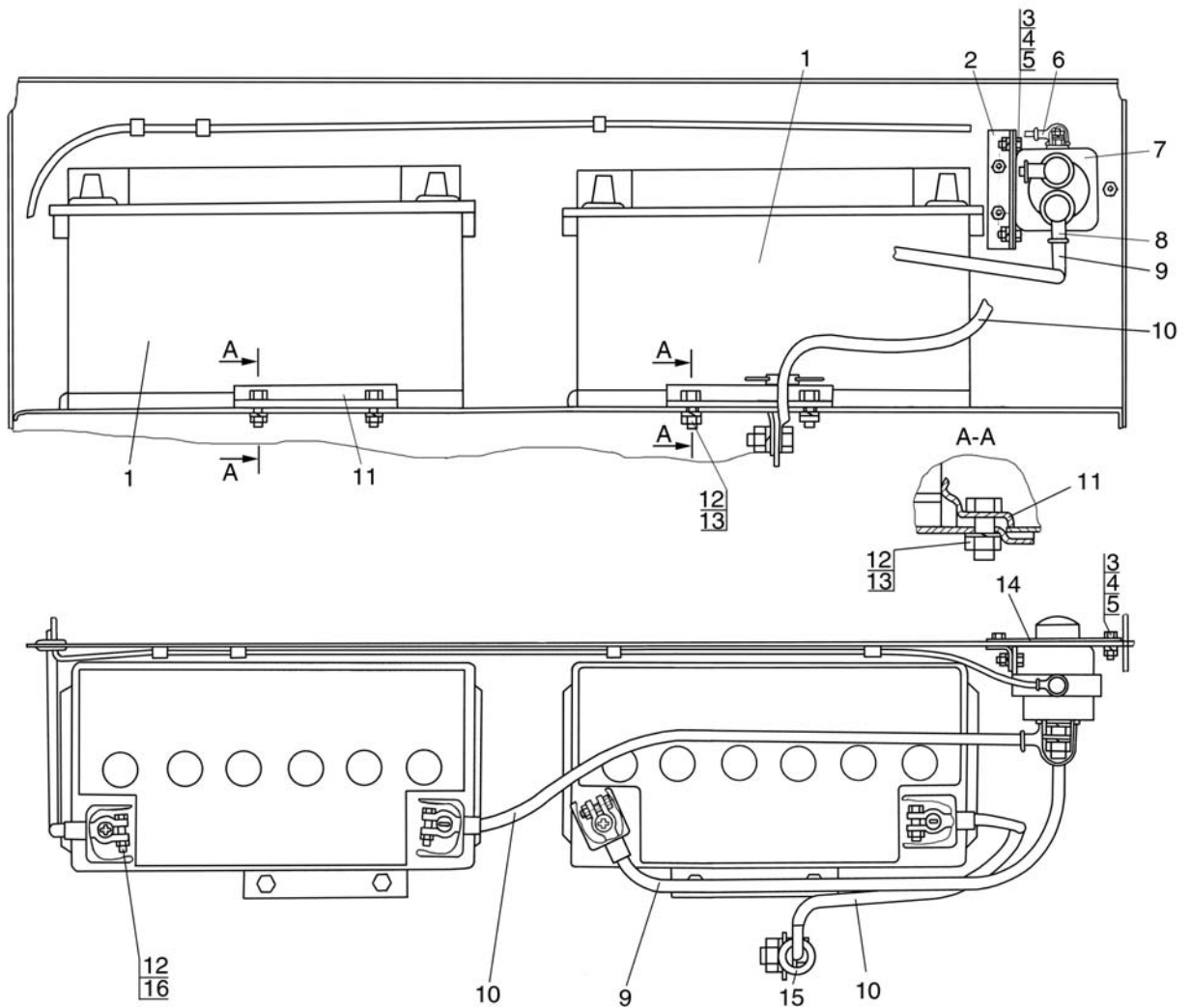


Fig. 37.5. Accumulator batteries installation (BELARUS -1221/1221.2/1221.3)

Note to Fig. 37.5

Indication	Note
80-3700085-Б-02	
80-3700085-Б-03	For the tropics

**Group 37. Electrical equipment
Subgroup 3703. Accumulator batteries installation
(BELARUS-1221/1221.2/1221.3)**

Fig.No	Pos. No	Assembly unit or part No	Quantity for completing 80-3700085-Б-		Description
			02	03	
37.5	1	3703.26	2	-	Accumulator batterie 12/120
		3703.27	-	2	Accumulator batterie T12/120
	2	80-3703061	1	1	Bracket
	3	M6x20	5	5	Bolt
	4	M6	5	5	Nut
	5	ШП 6	5	5	Washer
	6	54.24.445-Б	1	1	Tip
	7	3737.25	1	1	24V batteries hand-operated switch
	8	TM 59-6000-38	2	2	Rubber tip
	9	1025-3724044	1		Wire
		1025-3724044-01		1	
	10	1221B-3724075	2	-	Wire
		1221B-3724075-01	-	2	
	11	80B-3703020	2	2	Clamp
	12	M8	8	8	Nut
	13	ШП 8	4	4	Washer
14	80-3703062	1	1	Plate	
15	70-3723042-02	1	1	Bushing	
16	M8x30	4	4	Bolt	

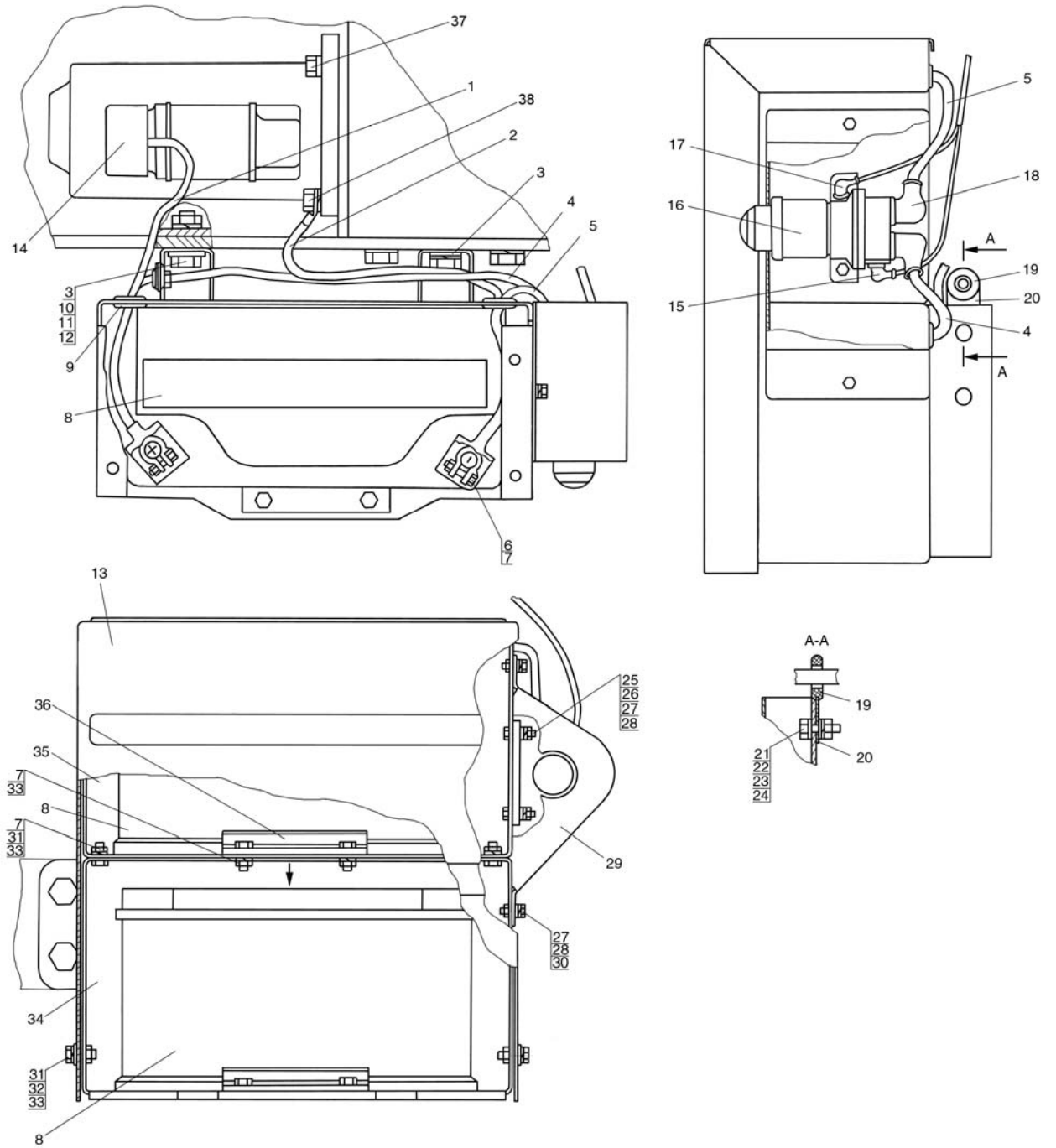


Fig. 37.6. Accumulator batteries installation (BELARUS-1221B/1221B.2)

Note to Fig. 37.6

Indication	Note
1221B-3700080Б-06	
1221B-3700080Б-07	For the tropics

Group 37. Electrical equipment
Subgroup 3703. Accumulator batteries installation (BELARUS-1221B/1221B.2)

Fig.No	Pos. No	Assembly unit or part No	Quantity for completing 80-3700080-Б-		Description
			06	07	
37.6	1	1221B-3724041	1	-	Wire
		1221B-3724041-01	-	1	
	2	1221B-3724075	1	-	Wire
		1221B-3724075-01	-	1	
	3	ШЧ 16	4	4	Washer
	4	1221B-3724044B	1	-	Wire
		1221B-3724044B-01	-	1	
	5	923-3724042	1	-	Wire
		923-3724042-01	-	1	
	6	M8x30	4	4	Bolt
	7	M8	12	12	Nut
	8	3703.26	2	-	Accumulator batteries 12/120
		3703.27	-	2	Accumulator batteries T12/120
	9	50-4607-064	4	4	Bushing
	10	M16x55	2	2	Bolt
	11	M16	4	4	Nut
	12	ШП 16	4	4	Washer
	13	1221B-3703020-01	1	1	Case
	14	3708.20	1	1	Starter 24V; 5,5kW
	15	54.24.445-Б	1	1	Tip
	16	3737.15	1	1	24V remote battery switch
	17	M2.14.12.238	1	1	Cover
	18	TM 59-6000-38	2	2	Rubber tip
	19	70-3723042-02	1	1	Bushing
	20	320-3723021	1	1	Bracket
	21	M8x30	4	4	Bolt
	22	M12	1	1	Nut
	23	ШЧ 12	1	1	Washer
	24	ШП 12	1	1	Washer
	25	M6x20	2	2	Bolt
	26	M6	2	2	Nut
	27	ШЧ 6	4	4	Washer
	28	ШП 6	4	4	Washer
29	1522-3703025	1	1	Cover	
30	M6x16	2	2	Bolt	
31	M8x20	6	6	Bolt	
32	ШЧ 8	2	2	Washer	
33	ШП 8	10	10	Washer	

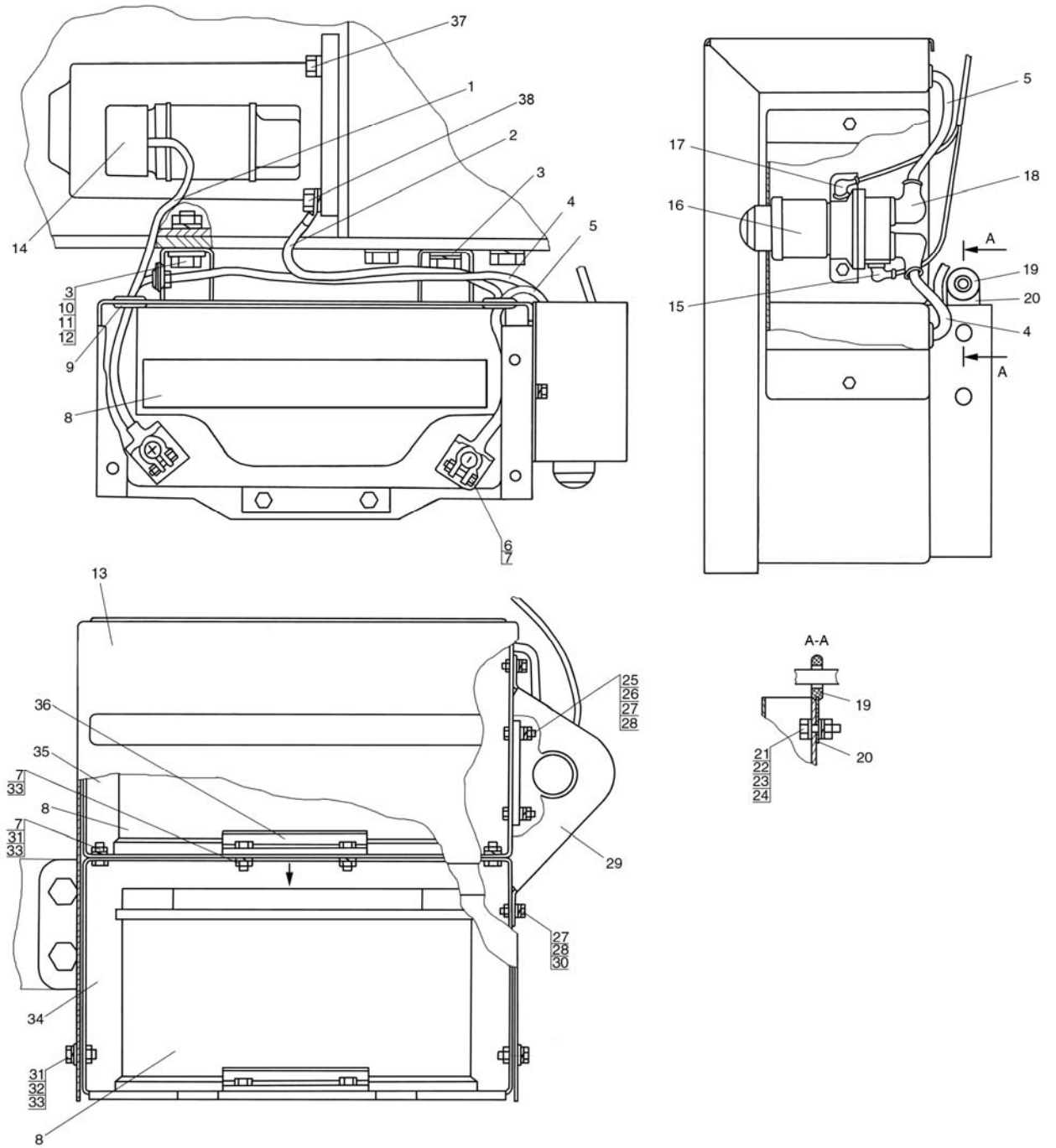


Fig. 37.6. Accumulator batteries installation (BELARUS-1221B/1221B.2)

Note to Fig. 37.6

Indication	Note
1221B-3700080Б-06	
1221B-3700080Б-07	For the tropics

**Group 37. Electrical equipment
Subgroup 3703. Accumulator batteries installation
(BELARUS-1221B/1221B.2)**

Fig.No	Pos. No	Assembly unit or part No	Quantity for completing 1221B-3700080Б-		Description
			06	07	
37.6	34	1221B-3703010	1	1	Container
	35	1221B-3703010-02	1	1	Container
	36	80B-3703020	2	2	Clamp
	37	M12x30	2	2	Bolt
	38	M12x45	1	1	Bolt

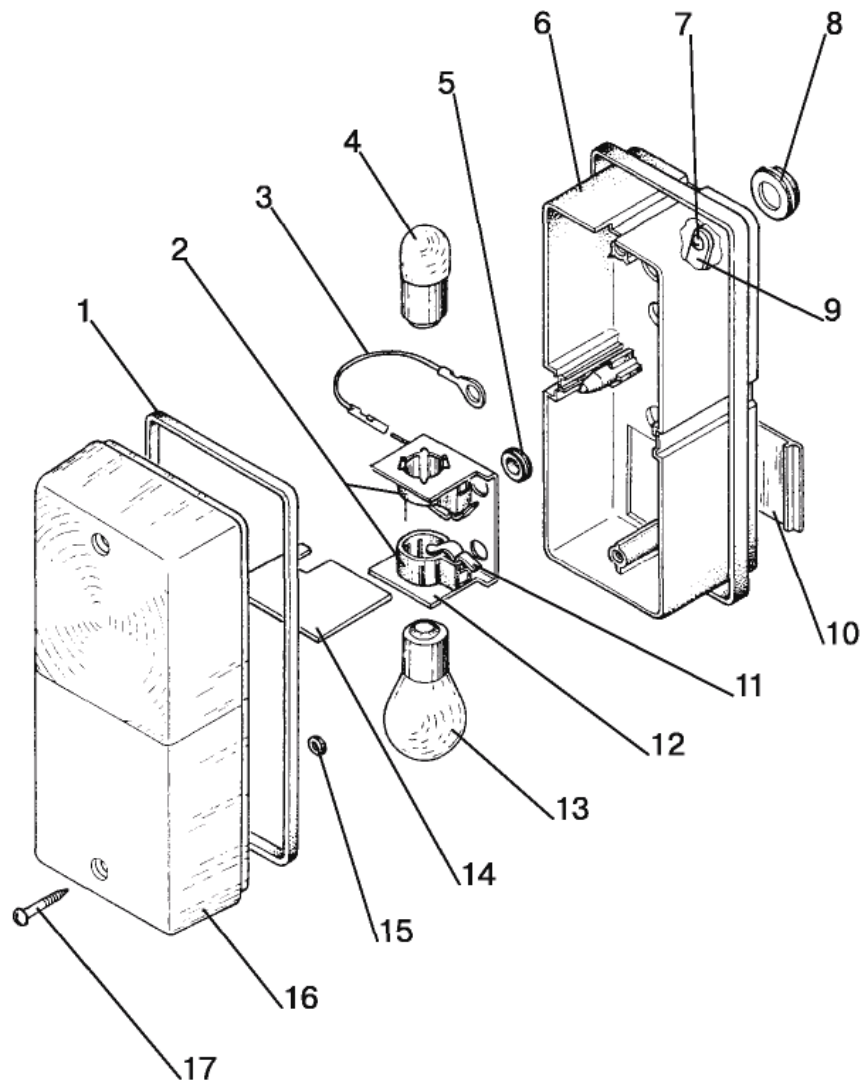


Fig. 37.8. Front light

Group 37. Electrical equipment
Subgroup 3712. Front light

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.8		3713.3712	2	Front light
	1	90-02:3	1	Seal
	2	89-021:2	2	Holder
	3	90-03	1	Wire
	4	A12-5	1	Bulb
	5	TYP PA 60/90/10 Fa	3	Rubber buffer
	6	90-02:1	1	Case
	7	4x10	2	Screw
	8	TYP DG 11 Fa	1	Bushing
	9	112.94.04.00.000	1	Plate
	10	90-02:2	1	Side diffuser
	11	89-021:3	2	Contact spring
	12	90-021:1	1	Bulbholder
	13	A12-21-3	1	Bulb
	14	90-0:1	1	Separating plate
	15	89-01:3	2	Rubber washer
	16	90-01:1	1	Diffuser
17	BM3.5x23	2	Screw	

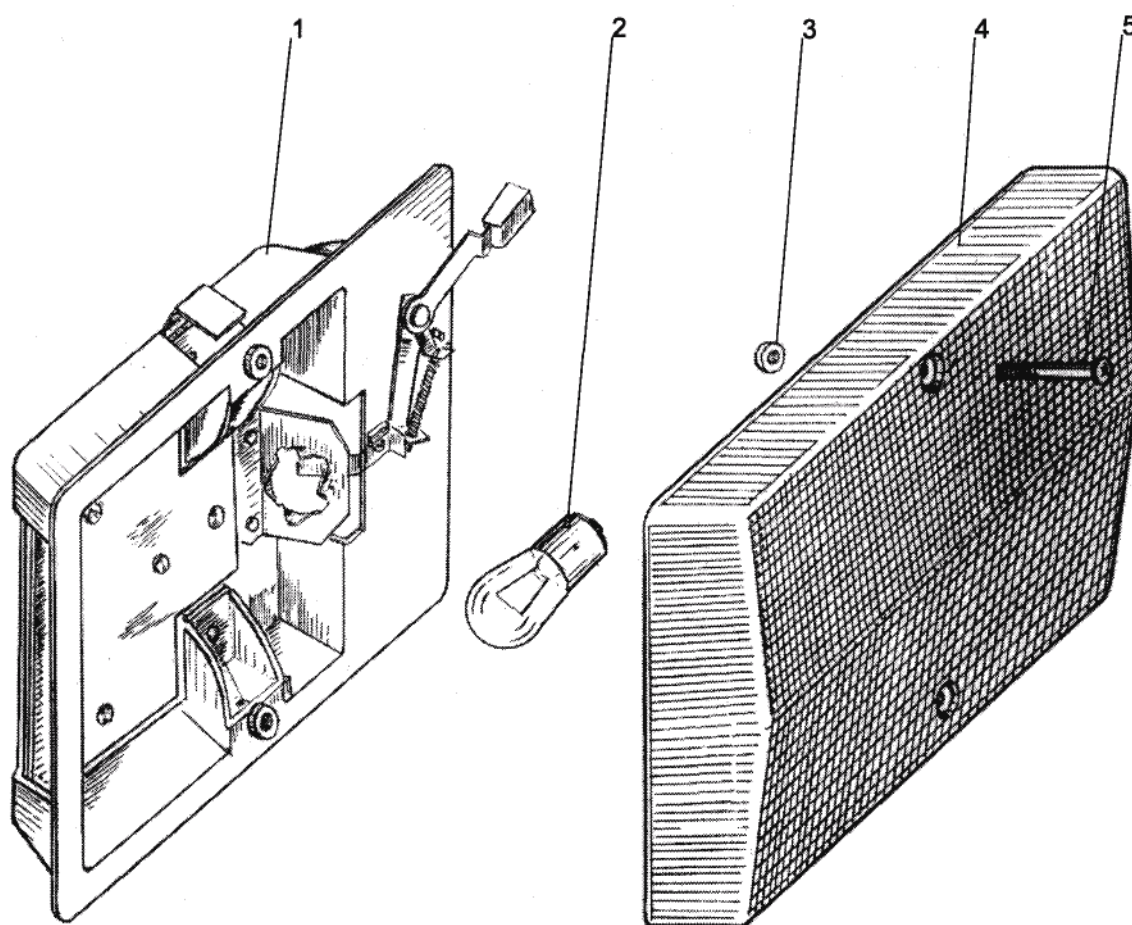


Fig. 37.9. Dome lamp

Group 37. Electrical equipment
Subgroup 3714. Dome lamp

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.9		111.3714010	1	Dome lamp (1, 3-5)
	1	111.3714010	1	Base with switch
	2	A12-21-3	1	Bulb 12 V; 25 W
	3	11.3714112	2	Washer
	4	11.3714202	1	Diffuser
	5	BM4x18	2	Screw

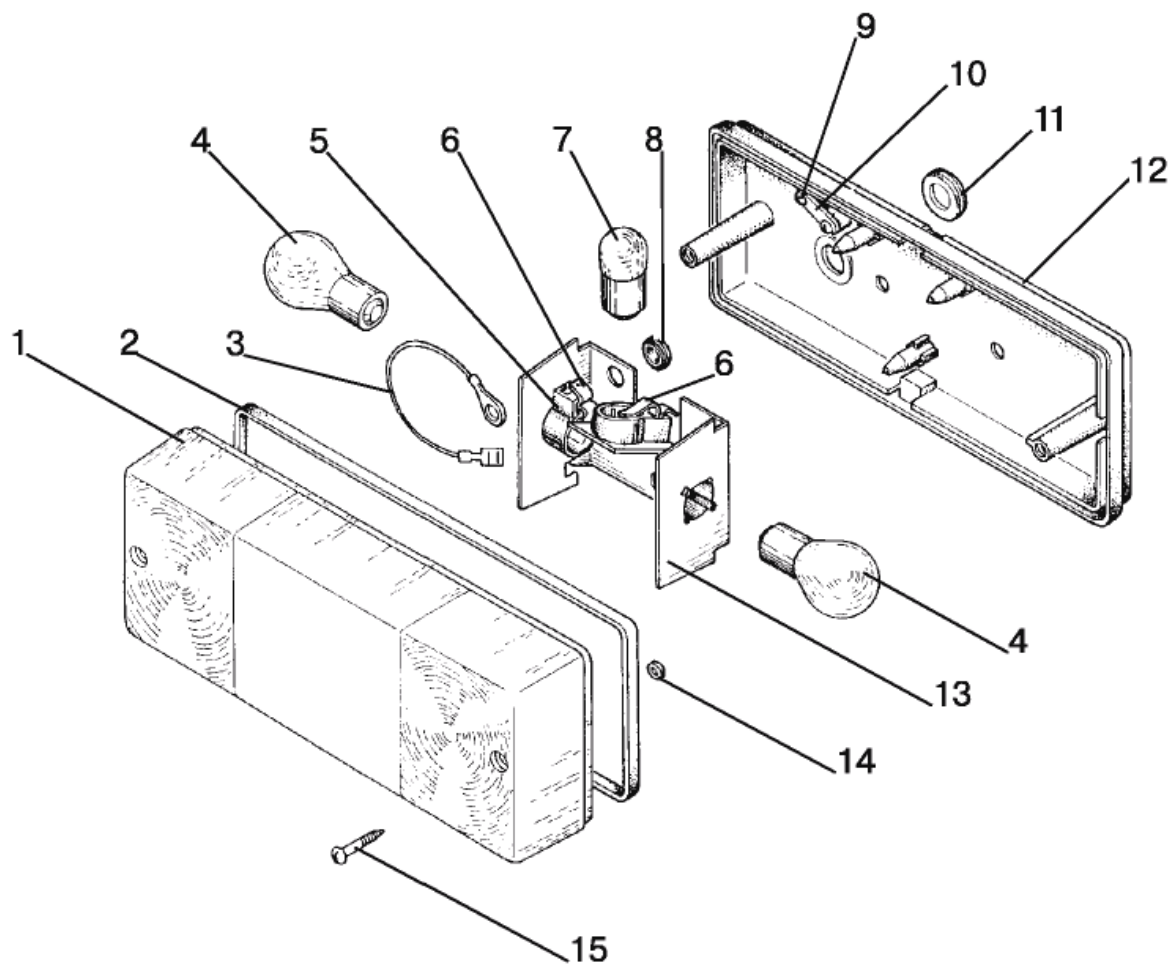


Fig. 37.10. Rear light

Group 37. Electrical equipment
Subgroup 3716. Rear light

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.10		7303.3716	2	Rear light
	1	89-01:1	1	Diffuser
	2	89-02:2	1	Seal
	3	90-03	1	Wire
	4	A12-21-3	2	Bulb
	5	89-021:2	3	Holder
	6	89-021:3	3	Contact spring
	7	A12-10	1	Bulb
	8	TYP PA 60/90/10 Fa	3	Rubber buffer
	9	4x10	2	Screw
	10	112.94.04.00.000	1	Plate
	11	TYP DG 11 Fa	1	Bushing
	12	89-02:1	1	Case
	13	89-021:1	1	Bulb holder
	14	89-01:3	2	Rubber washer
15	BM3.5x23	2	Screw	

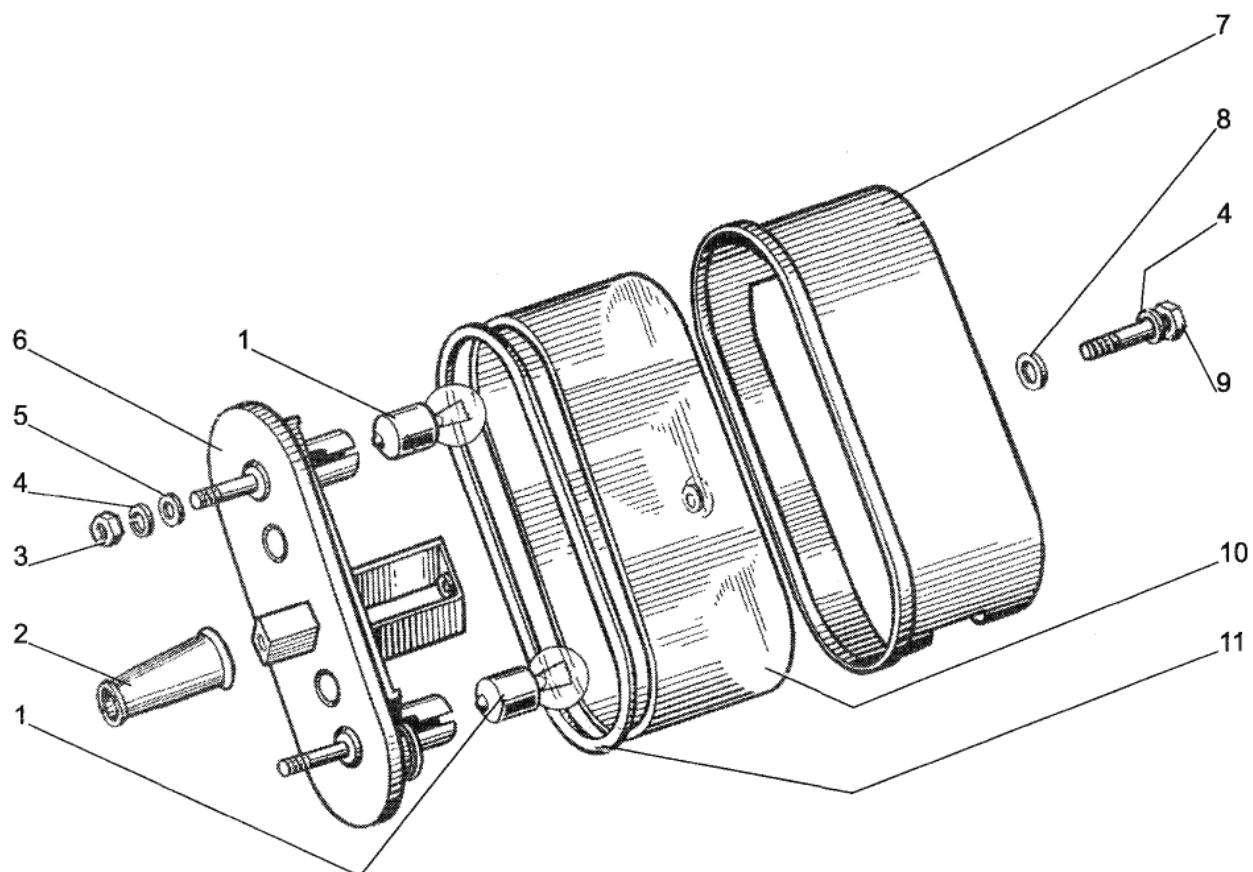


Fig. 37.11. Number plate light

Group 37. Electrical equipment
Subgroup 3717. Number plate light

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
37.11		ФП131А	1	Number plate light
	1	A1 2-5-2	2	Bulb
	2	70-3723035	1	Cover
	3	M6	2	Nut
	4	ШП 6	3	Washer
	5	ШЧ 6	2	Washer
	6	ФП 131-3717100	1	Base
	7	ФП 131-3717111	1	Cover
	8	ФП 130-3716123	1	Washer
	9	ФП 125-3711133	1	Bolt
	10	ФП 131-3717204	1	Diffuser
11	ФП 134-3717203	1	Gasket	

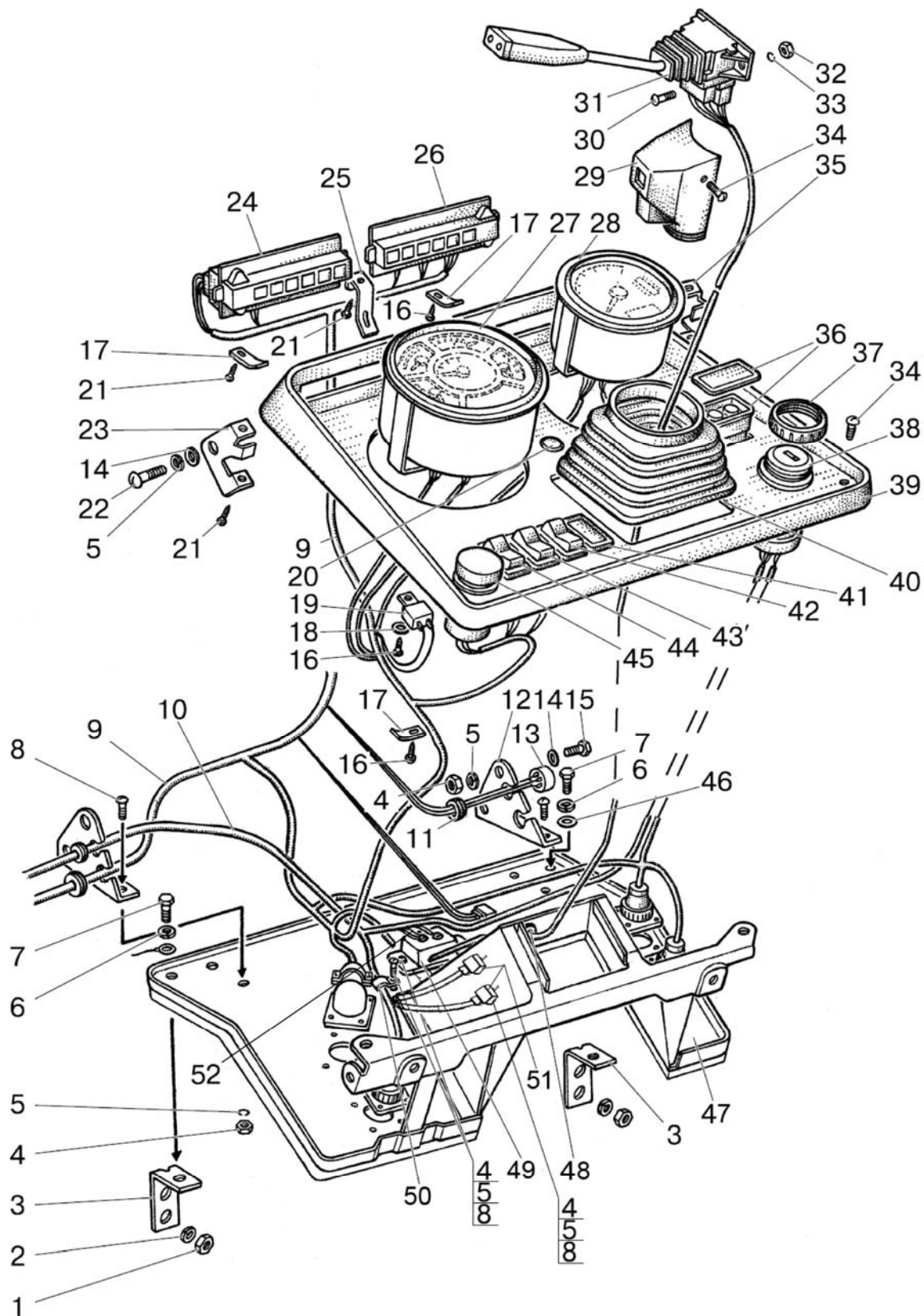


Fig. 38.1. Base, instruments

**Group 38. Dashboard
Subgroup 3805. Base, instruments**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
38.1		80-3805010-Д1	1	Dashboard (1-52 (Fig.38.1), 1-33 (Fig. 38.2))
	1	M10	2	Nut
	2	ШП 10	2	Washer
	3	80-3805030	2	Bracket
	4	M6	11	Nut
	5	ШП 6	13	Washer
	6	ШП 8	2	Washer
	7	M8x16	2	Bolt
	8	BM6x12	9	Screw
	9	80-3724395-Г	1	Harness
	10	80-3724512-B1	1	Harness
		80-3724517-B1*	1	Harness
	11	70-3723042-01	1	Bushing
	12	80-3805043	1	Bracket
	13	3747.15	1	Relay of hand brake lamp
	14	ШЧ 6	6	Washer
	15	M6x16	4	Bolt
	16	4x10	4	Screw
	17	80-3723026	4	Clamp
	18	ШЧ 5	1	Washer
	19	3747.20	1	Warning relay
	20	80-3805064	1	Plug
	21	4x16	7	Bolt screw
	22	BM6x18	2	Screw
	23	80-3805035-01	1	Bracket
	24	3808.15	1	Warning lights block
	25	80-3805015	1	Bracket
	26	3803.10	1	Warning lights block
	27	3801.10	1	Instruments combination КП-6
	28	3813.10	1	Tacho- and speedometer
	29	80-3709023-B	1	Body (with commutator ПКП-1 or ПКП-1А)
		80-3709023	1	Body (with commutator 3912.3769 or 3912.3769-01)
	30	BM5x12	2	Screw
	31	ПКГМ*** or ПКП-1А	1	Understeering switch (with body 80-3709023-B)
		3912.3769 or 3912.3769-1	1	Understeering switch (with body 80-3709023)
	32	M5	2	Nut
	33	ШП 5	2	Washer
	34	BM6x12	4	Screw
	35	80-3805035	1	Bracket
	36	AP70.3709-01	1	Control board
37	80-3805014	1	Nut	
38	3710.45	1	Starter and instruments switch	
39	80-3805021-Б	1	Board	
40	80-3805012-Б	1	Seal	

* For tractors BELARUS -1221.3

*** With 3-armed steering wheel

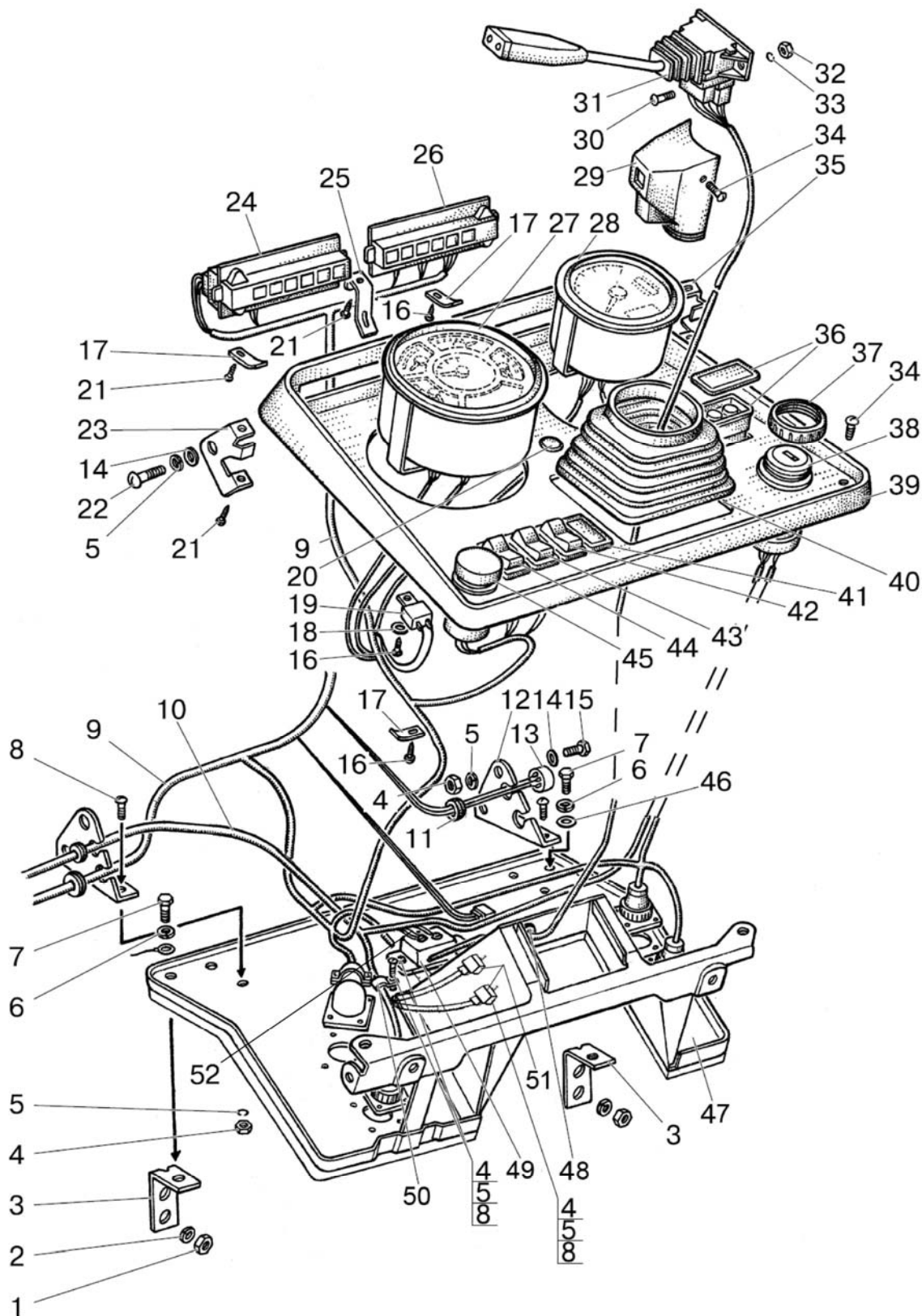


Fig. 38.1. Base, instruments

Group 38. Dashboard
Subgroup 3805. Base, instruments

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
38.1	41	80-3801327	1	Plug
	42	80-3801327	1	Plug
	43	3710.50	1	Windshield washer switch
	44	3709.20	1	Light switch
	45	3710.10	1	Emergency alarm switch
	46	ШЧ 8	1	Washer
	47	80-3805050-Б1-02	1	Base
	48	50-4607064	1	Bushing
	50	80-3723036	1	Clamp
	51	3747.50	2	Cut-in relay 30A

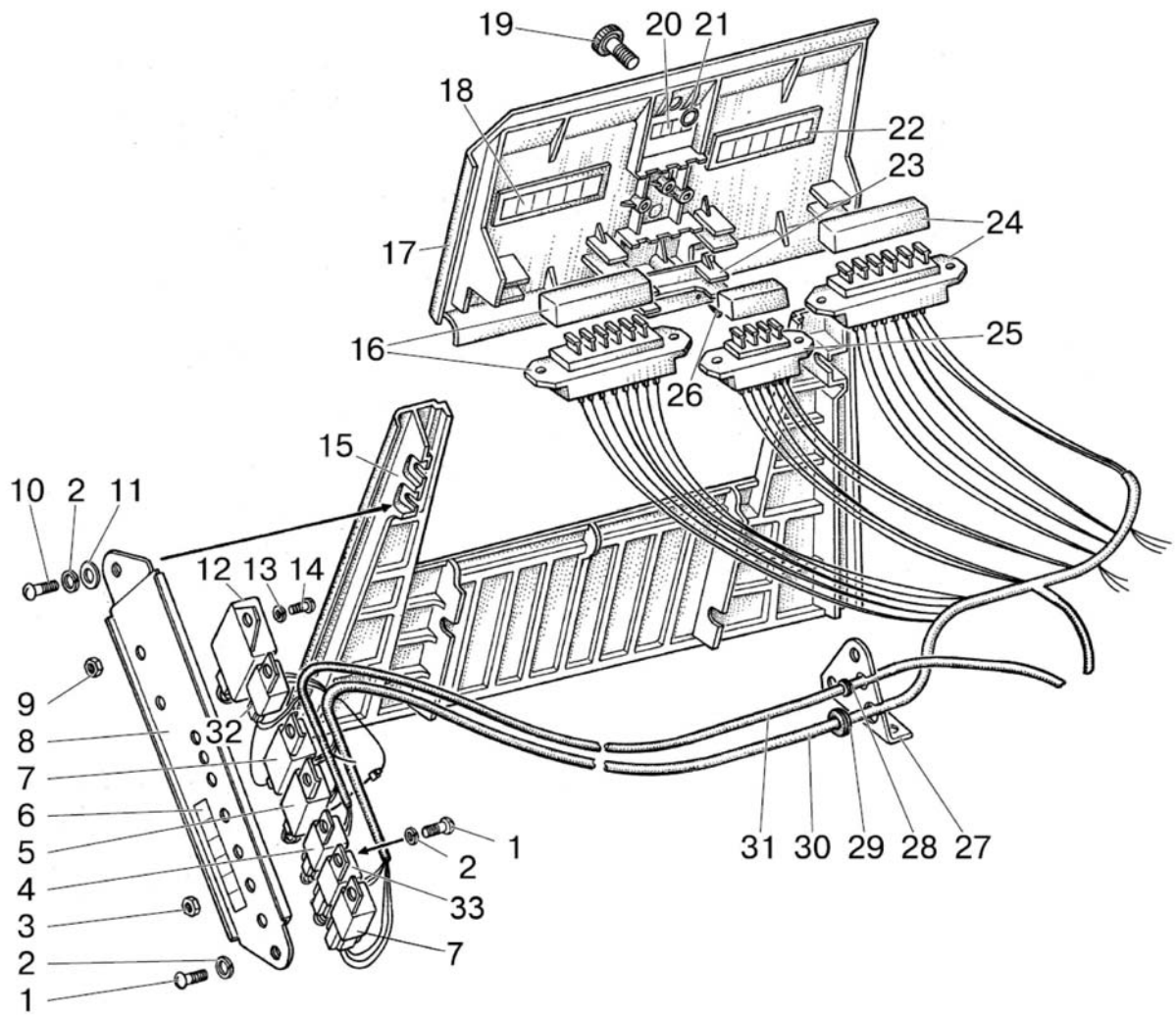


Fig. 38.2. Sidewall, cover

Group 38. Dashboard
Subgroup 3805. Sidewall, cover

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
38.2	1	BM6x12	5	Screw
	2	ШП 6	6	Washer
	3	M6	4	Nut
	4	3747.25	1	Starter relay
	5	3747.40	1	Cut-off relay 20A
	6	80-3805025-Г	1	Nameplate
	7	3747.50	1	Cut-in relay 30A
	8	80-3805070	1	Panel
	9	M5	1	Nut
	10	BM6x18	1	Screw
	11	ШЧ 6	1	Washer
	12	3747.10	1	Flasher unit
	13	ШП 5	1	Washer
	14	BM5x16	1	Screw
	15	80-3805041	1	Wall
	16	3722.15	1	Fuse block
	17	80-3805061	1	Cover
	18	80-3805027-B	1	Name plate
	19	80-3805065	1	Screw
	20	80-3805037-Г	1	Name plate
	21	006-010-25-1-4	1	Ring
	22	80-3805026	1	Name plate
	23	ИКСУ 741134.002	1	Holder
	24	3722.10	1	Fuse block
	25	3722.35	1	Fuse block
	26	4x10	2	Screw
	27	80-3805043	1	Bracket
	28	70-3723042-01	1	Bushing
	29	70-3723042-02	1	Bushing
	30	80-3724395-Г	1	Harness
	31	80-3724512-B1	1	Harness
	32	3747.30	1	Instruments power relay
	33			
		3741.10	1	Heating plug unit

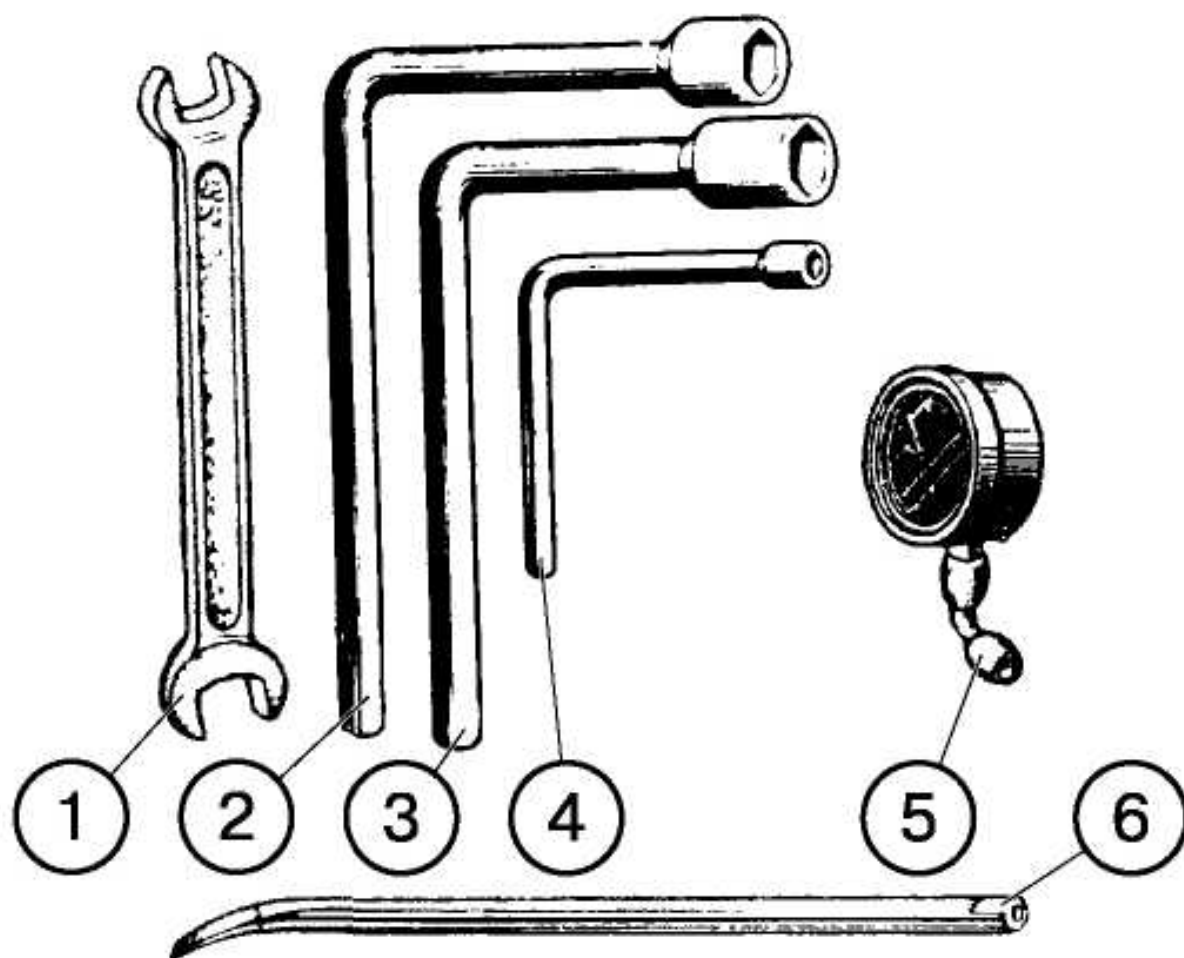


Fig. 39.1. Operator's tools.

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
39.1	1	70-3901038	1	Wrench 41x46
	2	36-3901023	1	Socket wrench S=32
	3	70-3901041	1	Socket wrench S=27
	4	50-3901026	1	Socket wrench S=12
	5	МД214	1	Manometer
	6	36-3901028-Б or 36-3901028-Б-01	1	Mounting iron 600

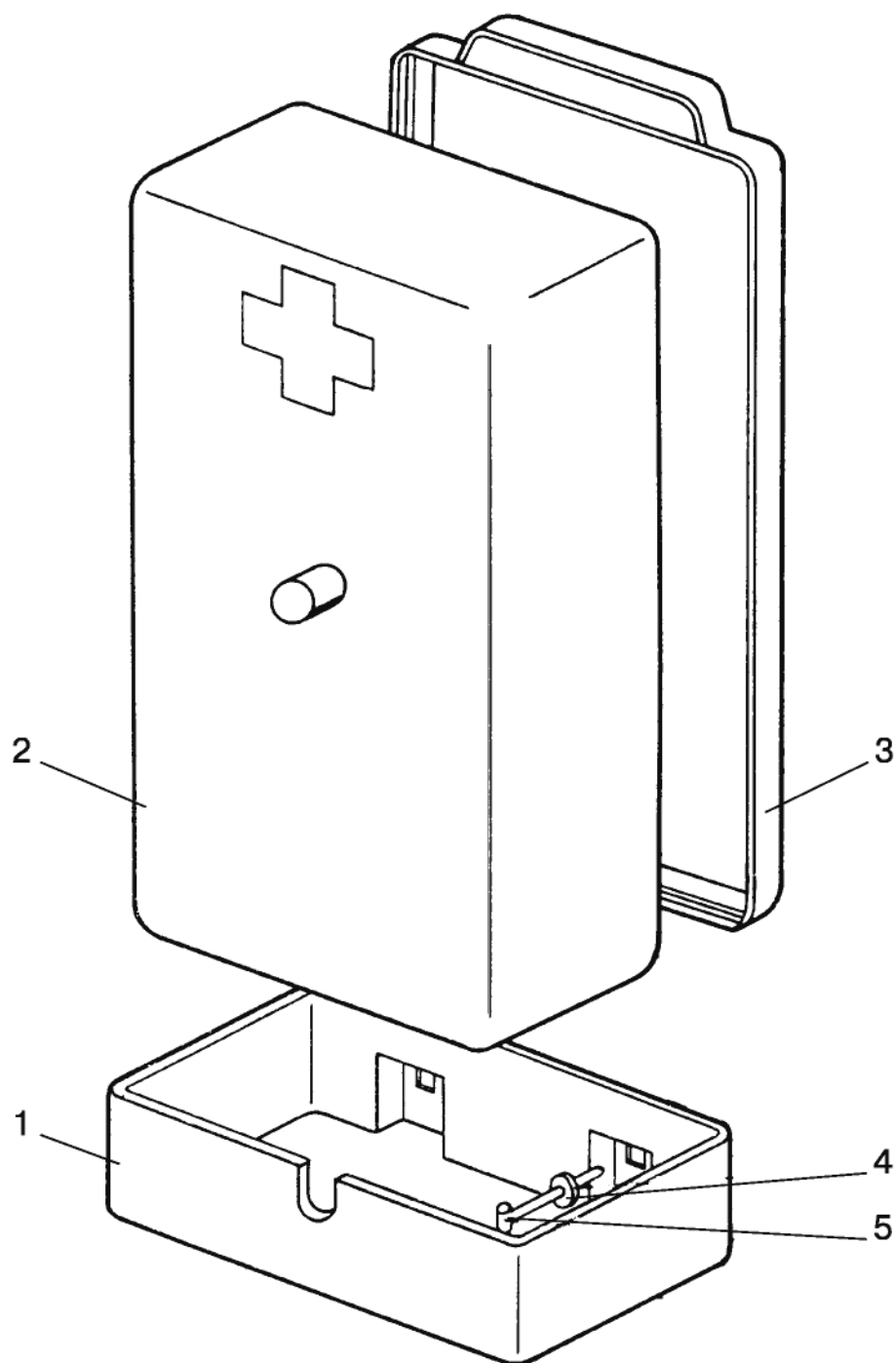


Fig. 39.2. First aid kit

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
39.2	1	70-3912153-A	1	Bracket
	2	70-3912152	1	Body
	3	70-3912151	1	Cover
	4	ШЧ 6	3	Washer
	5	70-3723033	3	Clamp

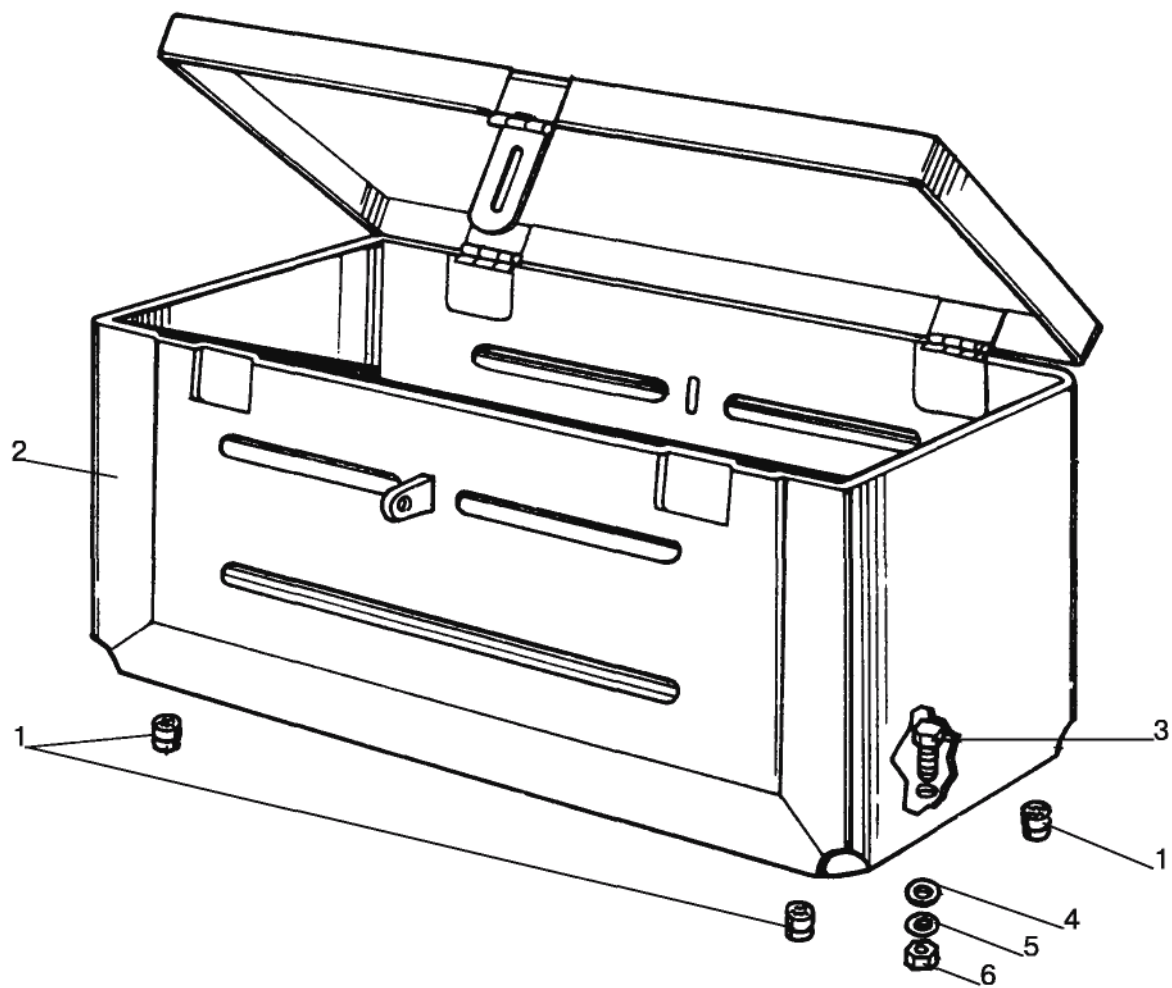


Fig. 39.3. Tool box

Group 39. Tools and accessories
Subgroup 3919. Tool box

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

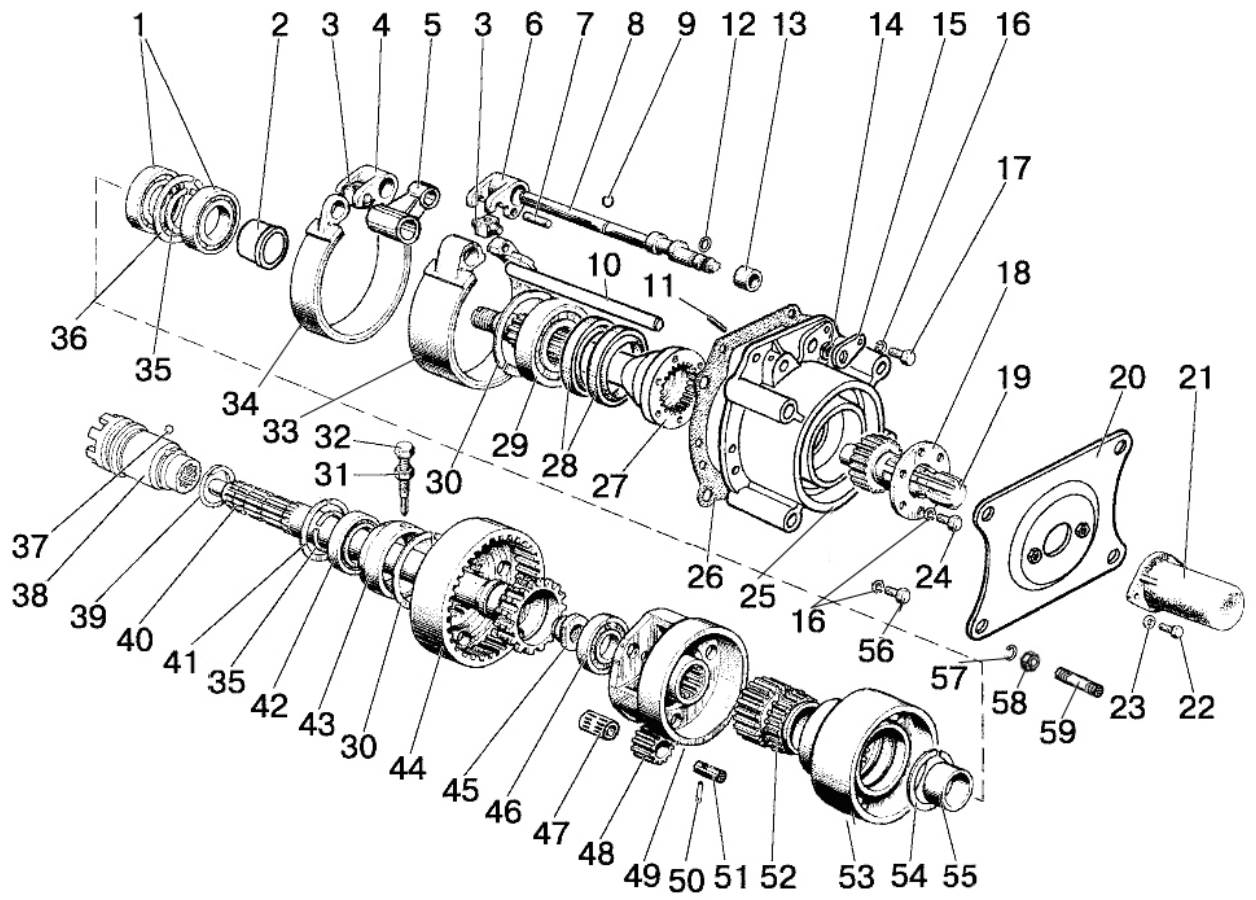


Fig. 42.1. Rear power take-off shaft

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.1		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 (38-46)
	1		2	Bearing 209A ГОСТ 8338-75
	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-Б	1	Axle
	11	A.8x20.65Г	1	Pin
	12		1	Ring 014-018-25-2-2 ГОСТ 18829-73/ГОСТ 9833-73
	13	80-4202082	1	Bushing
	14		1	Ring C18 ГОСТ 13940-86
	15	85-4202079	1	Plate
	16		12	Washer 10 OT OCT 37.001.115-75
	17		1	Bolt M10-6gx40.88.35.019 ГОСТ 7796-70
	18	80-4202081-A	1	Plate
	19	80-4202019-Б	1	Tail (with 8 splines)
		80-4202019-Б-01*	1	Tail (with 6 splines)
		80-4202019-Б-02*	1	Tail (with 21 splines)
	20	1321-4202180	1	Plate
	21	50-4202065-A	1	Cap
	22		2	Bolt M8-6gx16.88.35.019 ГОСТ 7796-70
	23		2	Washer 8T OCT 37.001.115-75
	24		6	Bolt M10-6gx18.88.35.019 ГОСТ 7796-70
	25	1221-4202042	1	Cover
	26	50-4202092-A	1	Gasket
	27	1221-4202017	1	Shaft
	28		2	Collar 2.2-80x105-1 ГОСТ 8752-79/OCT 3805146-78
	29		1	Bearing 60310A ГОСТ 7242-81
	30		1	Ring 2C110 ГОСТ 13941-86
	31		1	Nut M12x1,25-6H.6.019 ГОСТ 5915-70
	32	50-4202130	1	Screw
	33	85-4202100-01 or	1	Band with onlay 85-4202057 (ТИИР 430)
		85-4202100-02		Band with onlay 85-4202057-A7 (ITB 2842)
	34	85-4202100	1	Band with onlay 85-4202056 (ТИИР 430)
	35		2	Ring 2C50 ГОСТ 13940-86
36		1	Ring 2C85 ГОСТ 13941-86	
37		1	Ball 7,938-100 ГОСТ 3722-81	
38	50-4202046-Б	1	Shift collar	
39	A61.03.002	1	Ring	
40	70-4202044-Б	1	Shaft	
41		1	Ring 2C90 ГОСТ 13941-86	

* Optional

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

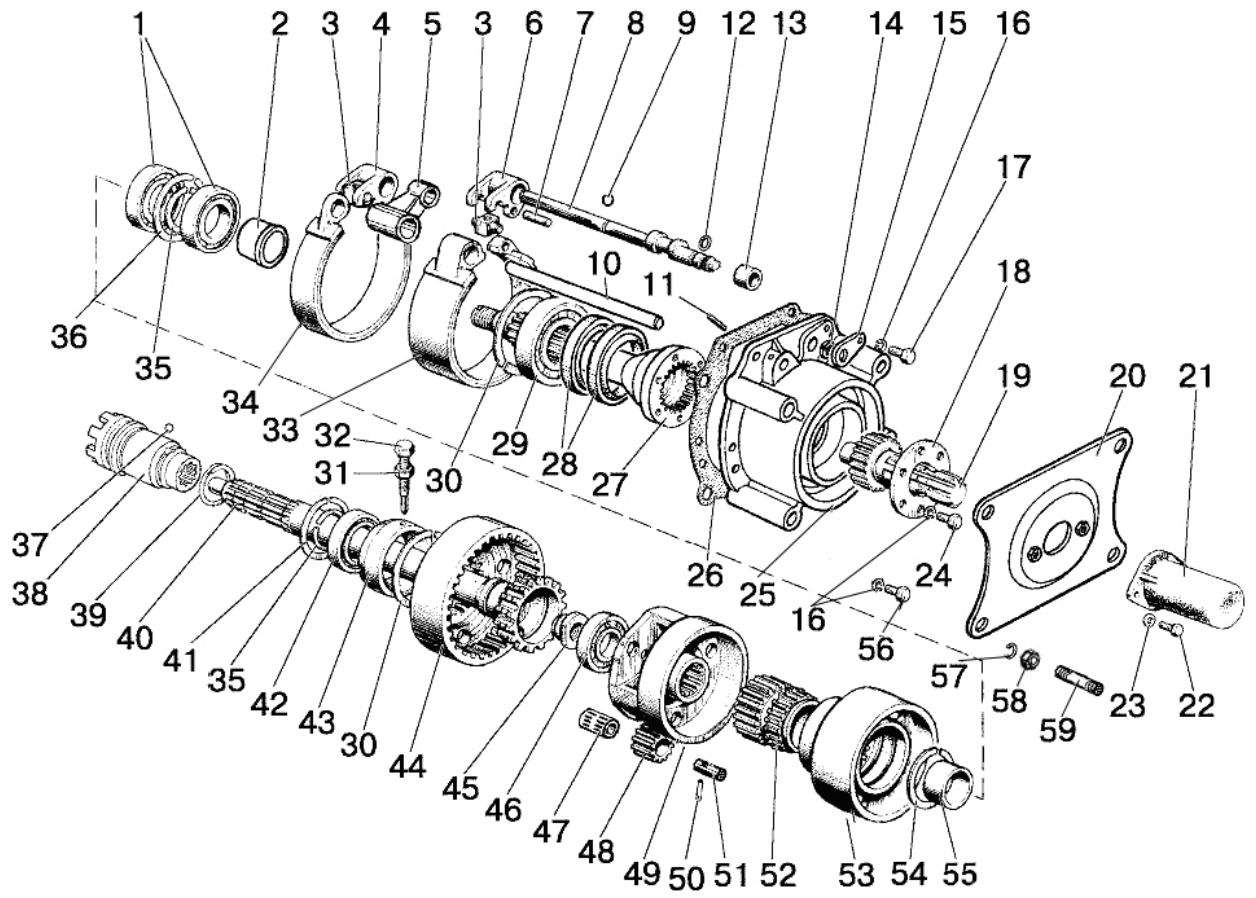


Fig. 42.1. Rear power take-off shaft

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.1	42		1	Bearing 210 АУШ1 ГОСТ8338-75
	43	50-4202066-A	1	Sleeve
	44	70-4202043	1	Crown gear
	45	70-4202083-A	1	Nut
	46		1	Bearing 208A ГОСТ 8338-75
	47		3	Bearing KK20x26x34E ГОСТ 24310-80
	48	70-4202024	3	Planet gear
	49	85-4202065	1	Carrier
	50	70-4202431	3	Pin
	51	70-4202026	3	Planet gear axle
	52	70-4202032	1	Sun gear
	53	85-4202033	1	Drum
	54		1	Ring 2C68 ГОСТ 13940-86
	55	70-4202077	1	Bushing
	56		5	Bolt M10-6gx50.88.35.019 ГОСТ 7795-70
	57		4	Washer 16 OT OCT 37.001.115-75
	58		4	Nut M16x1,5-6H.6.019 ГОСТ 5915-70
59	1221-4202028	4	Stud	

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

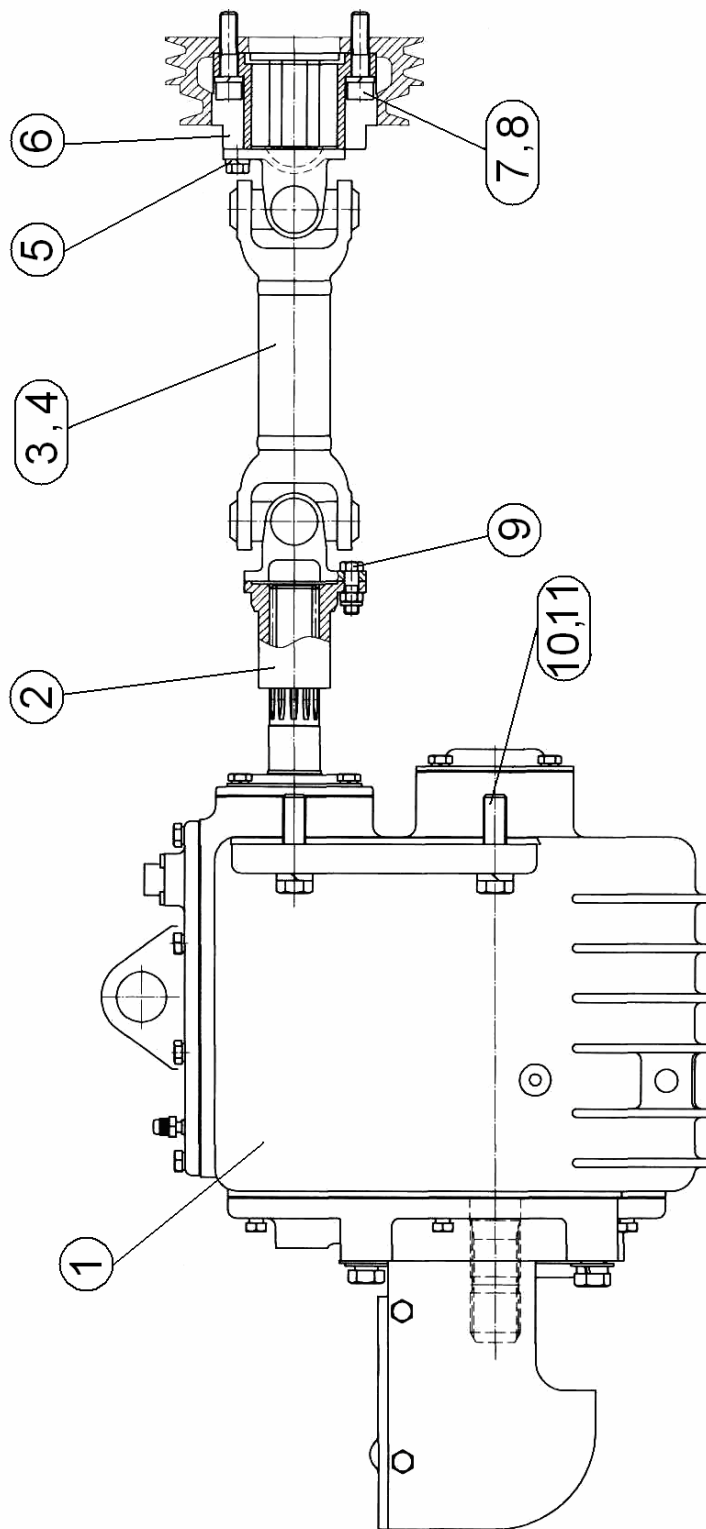


Fig. 42.2. Front power take-off shaft

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.2	1	1522-4209025	1	Reducer
	2	1522-4209017	1	Flange
	3	1522-4209015	1	Shaft
	4	1522-4209015-01	1	Shaft
	5	ШП 10	4	Washer
	6	1522-4209018	1	Space plate
	7	BM12x50	6	Screw
	8	ШП 12	6	Washer
	9	52-2203012	8	Bolt
	10	M16x60	4	Bolt
	11	ШП 16	4	Washer

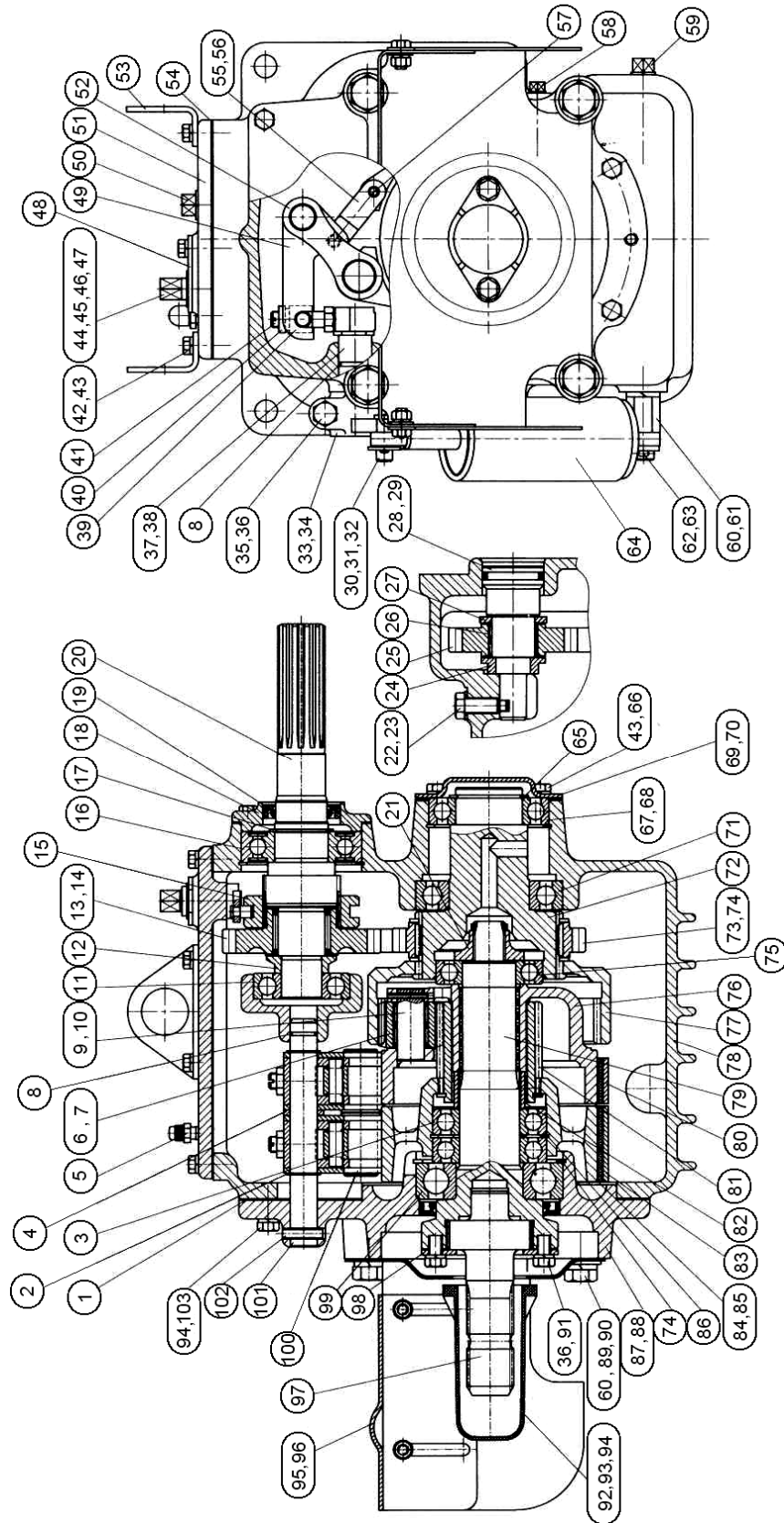


Fig. 42.3. Front power take-off shaft. Reducer

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.3		1522-4209025	1	Reducer
	1	1521-4209042	1	Gasket
	2	C204	2	Ring
	3	209A	2	Bearing
	4	1521-4209076	1	Bushing
	5	«MINTOR» TSS0G-1/8"	1	Breather
	6	70-4202024	3	Planet gear
	7	KK20x26x34E	3	Bearing
	8	021-025-25-1-4	1	Ring
	9	70-4202026	3	Planet gear axle
	10	4x30	3	Pin
	11	6-180306A1	1	Bearing
	12	1521-4209031	1	Washer
	13	1521-4209028	1	Gear
	14	464906E	2	Bearing
	15	1521-4209029	1	Bushing
	16	180308AC23	1	Bearing
	17	C40	1	Ring
	18	1522-4209060	1	Cover
	19	2.2-38x58-1	1	Collar
	20	1522-4209027	1	Shaft
	21	70-4202083-A	2	Nut
	22	50-1702046-A	1	Bolt
	23	1521-4209044	1	Washer
	24	1521-4209034	1	Bushing
	25	1521-4209033	1	Gear
	26	464607E	1	Bearing
	27	1521-4209036	1	Washer
	28	1521-4209032	1	Axle
	29	038-046-46-1-4	1	Ring
	30	12x32	1	Pin
	31	3,2x18	1	Splint
	32	ШЧ 8	2	Washer
	33	50-3503063	1	Center boss
	34	1521-4209066	1	Plate
	35	M12x35	1	Bolt
	36	ШП 12	1	Washer
	37	1521-4209040	1	Lever
	38	СШ6x11	1	Key
	39	1522-4209084	2	Nut
	40	1522-4209082	2	Pin
	41	1522-4209083	2	Screw
	42	M8x25	14	Bolt
	43	ШП 8	18	Washer
	44	1521-4209086	1	Shaft
	45	1521-4209087	1	Plate
	46	70-1601114	1	Pin
	47	017-022-30-1-4	1	Ring
	48	1521-4209056	1	Plate
	49	1521-4209081	2	Lever
	50	ПК КГ 3/4"	1	Plug
	51	1522-4209057	1	Cover
	52	2522-4209149	4	Buckle
53	80-4608073	2	Bracket	

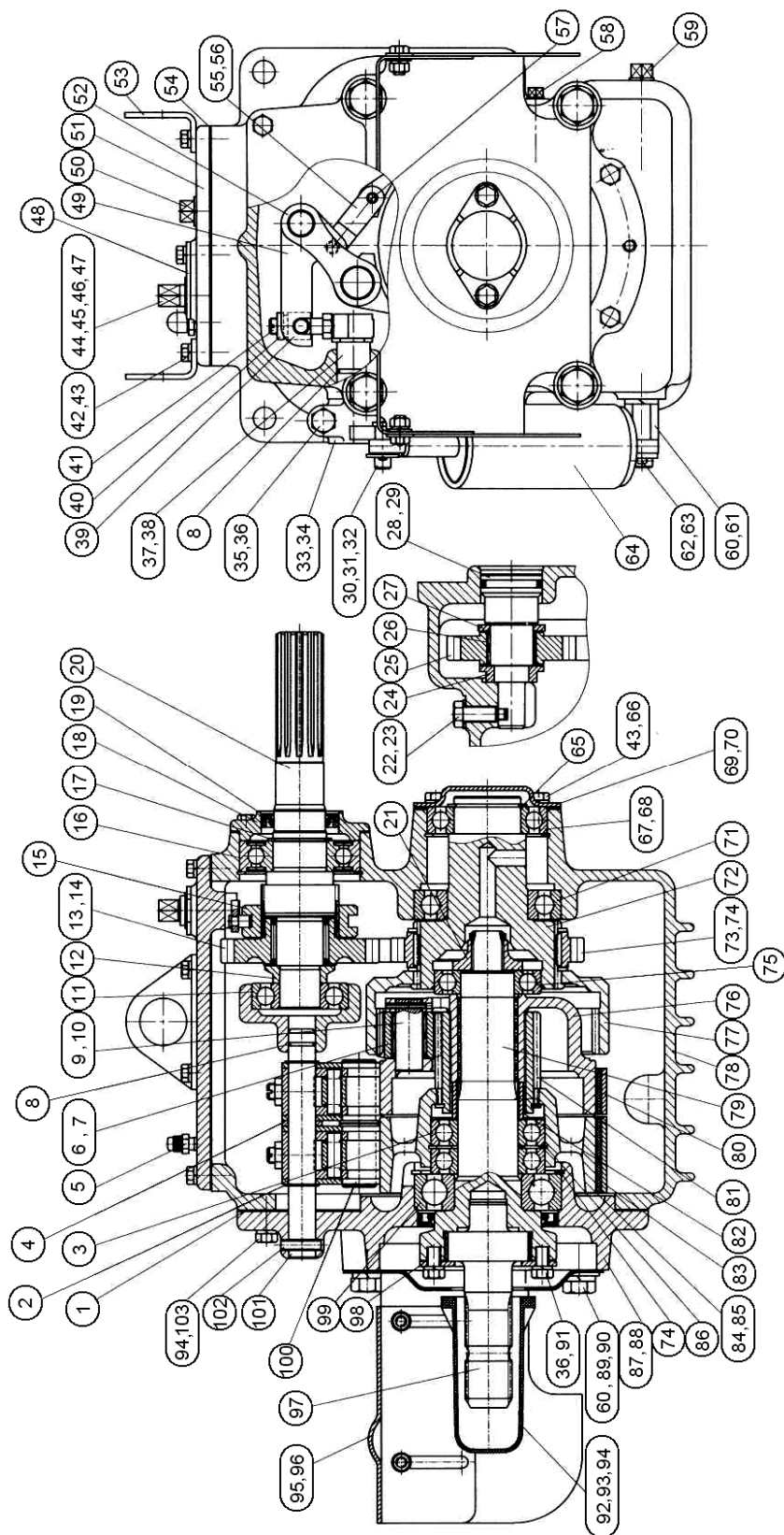


Fig. 42.3. Front power take-off shaft. Reducer

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.3	54	1522-4209041	1	Gasket
	55	1521-4209078	2	Buckle
	56	2.10x35	1	Pin
	57	ШЦК8x36	1	Pin
	58	КГ 1/8"	1	Plug
	59	ПК КГ 3/8"	1	Plug
	60	ШП 16	5	Washer
	61	1521-4209037	1	Bolt
	62	3,2x18	1	Splint
	63	ШЧ 16	1	Washer
	64	80-4216100	1	Cylinder
	65	2С50	2	Ring
	66	М8x20	4	Bolt
	67	210 АУШ1	1	Bearing
	68	2С90	2	Ring
	69	1521-4209038	1	Cover
	70	1521 -4209039	2	Gasket
	71	212 АУШ1	1	Bearing
	72	1522-4209046	1	Shaft
	73	1521-4209047	1	Gear
	74	2С110	3	Ring
	75	208А	1	Bearing
	76	85-4202065	1	Carrier
	77	70-4202043	1	Crown gear
	78	1522-4209026	1	Body
	79	80-4202017-Б	1	Shaft
	80	2522-4209125-01	1	Band
	81	70-4202032	1	Sun gear
	82	70-4202077	1	Bushing
	83	2522-4209125	1	Band
	84	85-4202033	1	Drum
	85	2С68	1	Ring
	86	2С85	1	Ring
	87	1521-4209071	1	Cover
	88	2.2-80x105-1	1	Collar
	89	М16x32	4	Bolt
	90	ШЧ 16	2	Washer
	91	М10x18	7	Bolt
	92	80-4202101	1	Cap
	93	М8x16	2	Bolt
	94	ШП 10	11	Washer
	95	2022-4209200	1	Guard
	96	ШЧ 12	2	Washer
	97	80-4202019-Б-02	1	Tail
	98	80-4202081-А	1	Plate
	99	60310А	1	Bearing
	100	2522-4209148	2	Pin
	101	1521-4209072	1	Axle
	102	А8x30.65Г	1	Pin
	103	М10x25	6	Bolt

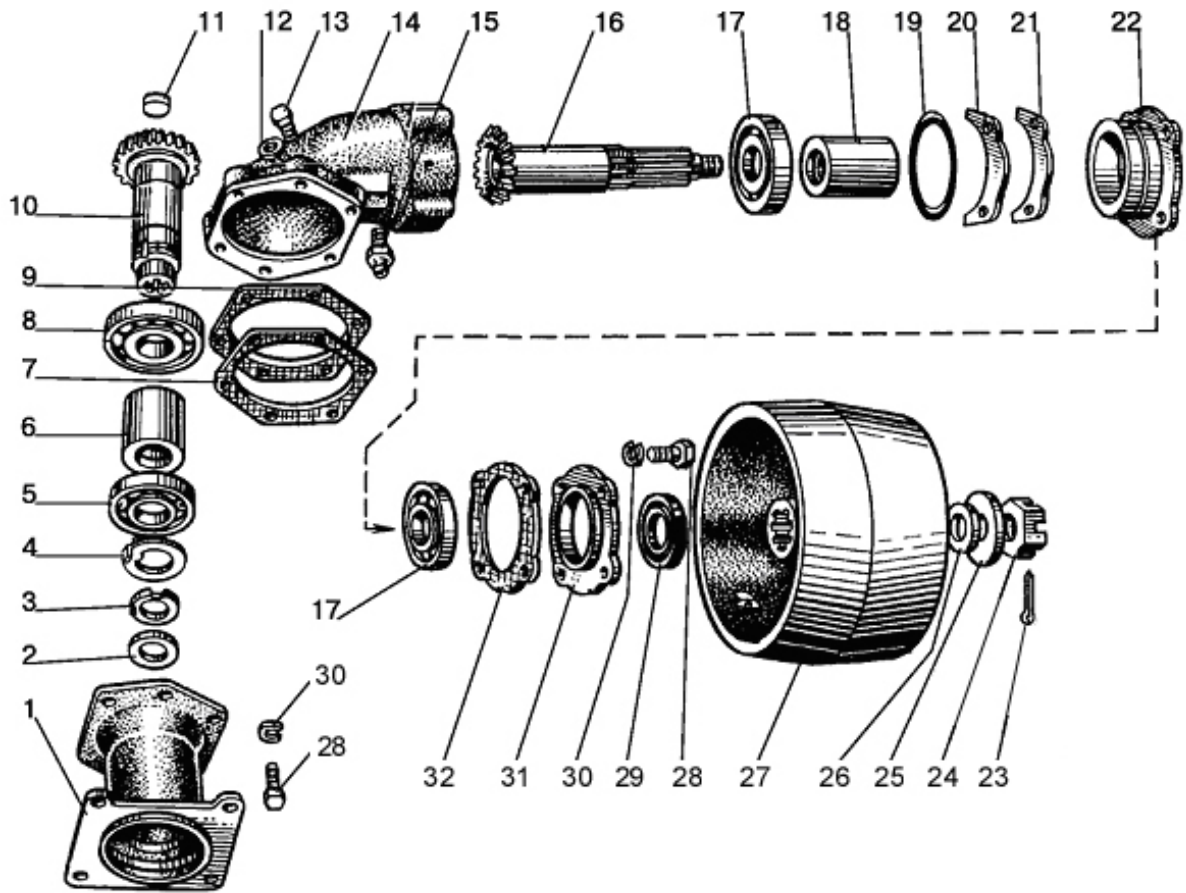


Fig. 42.4. Power pulley

**Group 42. Power take-off
Subgroup 4211. Power pulley**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.4		40-4211010-01	1	Power pulley 8-splines (1-34)
		40-4211035	1	Body (12-22, 30-34)
		40-4211040	1	Shaft (3-6, 8, 10, 11)
		40-4211050	1	Sleeve (1-6, 8, 10, 11)
		40-4211065	1	Shaft (16-18, 22)
	1	40-4211052	1	Sleeve
	2	2.2-50x70-1 (КФА 50x70)	1	Collar
	3	40-4211043	1	Nut
	4	36-1701061	1	Washer
	5	211 АУШ1	1	Bearing
	6	40-4211047	1	Bushing
	7	40-4211079	1	Gasket
	8	311А	1	Bearing
	9	40-4211081	1	Gasket
	10	40-4211045	1	Shaft
	11	40-4211082	1	Plug
	12	КГ ^{3/8} "	1	Plug
	13	КГ ^{3/4} "	2	Plug
	14	40-4211037	1	Body
	15	СУ-1/8"-А	1	Breather
	16	40-4211071	1	Shaft-gear
	17	408	2	Bearing
	18	40-4211072	1	Bushing
	19	120-125-30-1-4	1	Ring
	20	36-4211054Б	6	Gasket (0,5mm)
	21	36-4211055	8	Gasket (0,2mm)
	22	36-4211048	1	Sleeve
	23	4x36	1	Pin
	24	M20x1,5	1	Nut
	25	40-3502084	1	Washer
	26	40-3502083	1	Gasket
	27	40-4211075	1	Pulley assembly
28	M12x40	6	Bolt	
29	2.2-65x90-1	1	Collar	
30	ШП 12	6	Washer	
31	36-4211073	1	Seat	
32	36-4211057	1	Gasket	

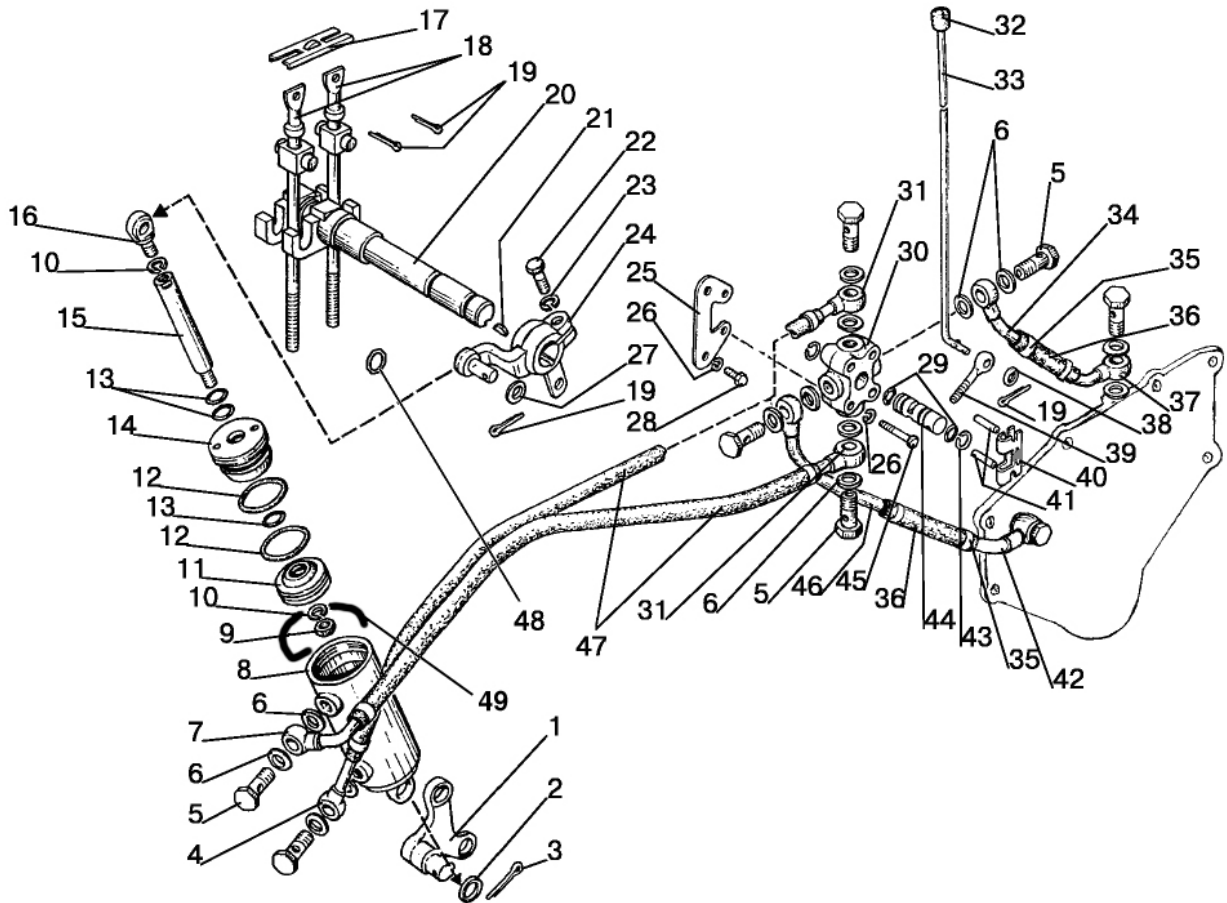


Fig. 42.5. Rear power take-off shaft control

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.5		1221-4216140	1	Rear PTO shaft control
		1221-4216130	1	Pipe (7, 31,35, 47)
		1221-4216130-01	1	Pipe (4, 31,35, 47)
		80-4216110	1	Cylinder (8-16)
		85-4216115	1	Hook (29, 30, 35, 38-41)
		1221-4216030	1	Oil pipe(35, 36, 42, 46)
		1221-4216045	1	Oil pipe (34, 35, 36)
	1	1221-4216010-Б	1	Bracket
	2	ШЧ 16	1	Washer
	3	4x36	1	Split pin
	4	85-4216130	1	Oil pipe
	5	Д18-051	8	Bolt
	6	Д18-055-А	16	Ring
	7	85-4216125	1	Oil pipe
	8	80-4216115	1	Body
	9	M12	1	Nut
	10	ШП 12	2	Washer
	11	80-4216118	1	Piston
	12	045-050-30-2-2	2	Ring
	13	016-020-25-1-4	3	Ring
	14	80-4216116	1	Front cover
	15	80-4216119	1	Rod
	16	80-4216121	1	Tip
	17	80-4216039	1	Stop member
	18	80-4216028	2	Screw
	19	3,2x18	2	Split pin
	20	50-4216070-Б-01	1	Control shaft
	21	СШ 611	1	Key 6x11
	22	M12x35	1	Bolt
	23	ШП 12	1	Washer
	24	1521-4216020	1	Lever
	25	85-4216127	1	Plate
	26	ШП 6	4	Washer
	27	ШЧ 12	1	Washer
	28	M6x16	2	Bolt
	29	012-016-25-2-4	2	Ring
	30	85-4216121	1	Body
	31	85-4216135	2	Oil pipe
	32	A13.11.000-02	1	Handle
	33	85-4216142	1	Rod
	34	1221-4216035	1	Tip
	35	12-20/9-C6W	8	Clamp "NORMA" TORRO
	36	1221-4216031-Б	2	Sleeve
	37	1221-4216040	1	Tip
	38	ШЧ 8	1	Washer
	39	85-4216123	1	Lever
40	85-4216124	1	Stop member	
41	6x30.65Г	2	Pin	
42	1221-4216055	1	Tip	
43	C16	2	Ring	
44	85-4216122	1	Valve core	
45	M6x40	2	Bolt	
46	1221-4216050	1	Tip	

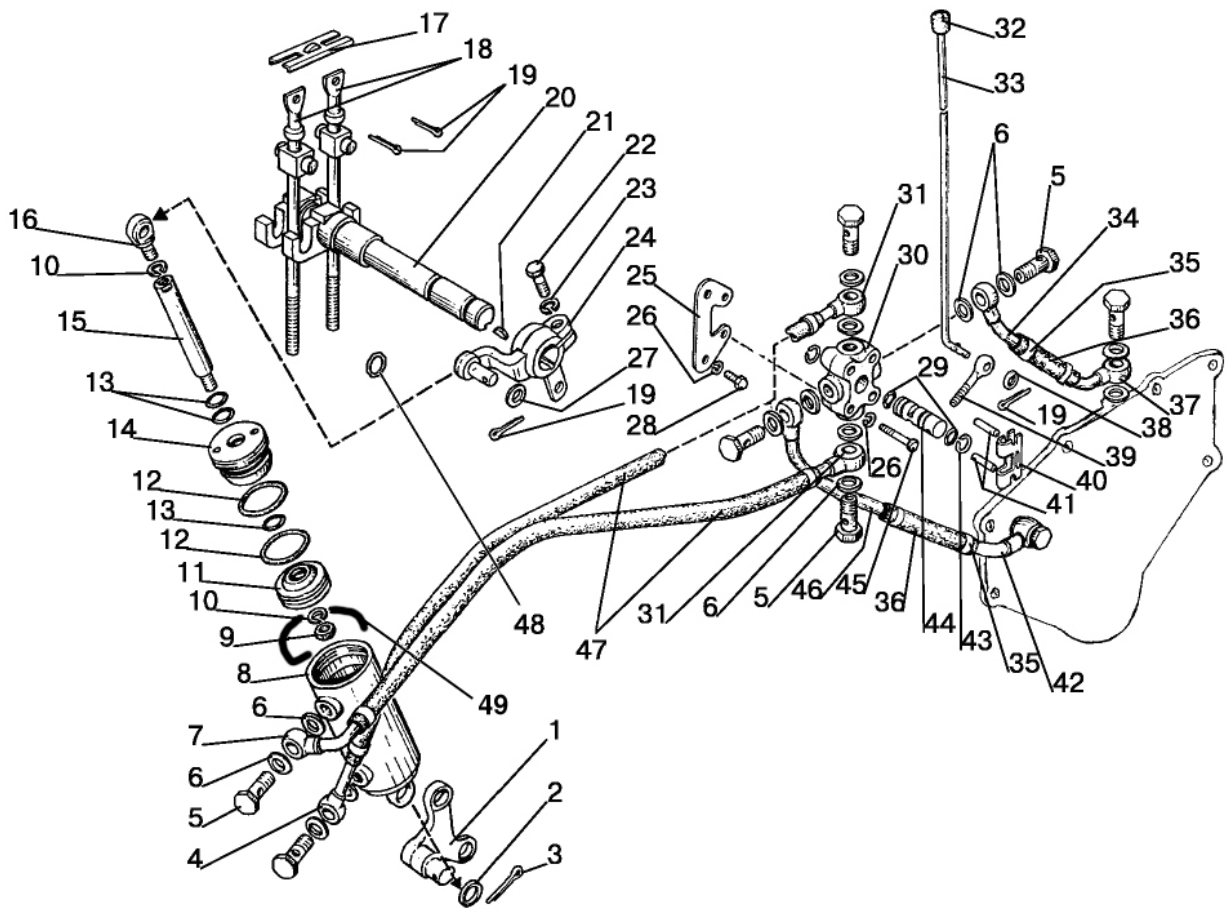


Fig. 42.5. Rear power take-off shaft control

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.5	47	1221-2412026-02	2	Sleeve
	48	025-030-30-1-4	1	Ring
	49	80-4216117	1	Finger

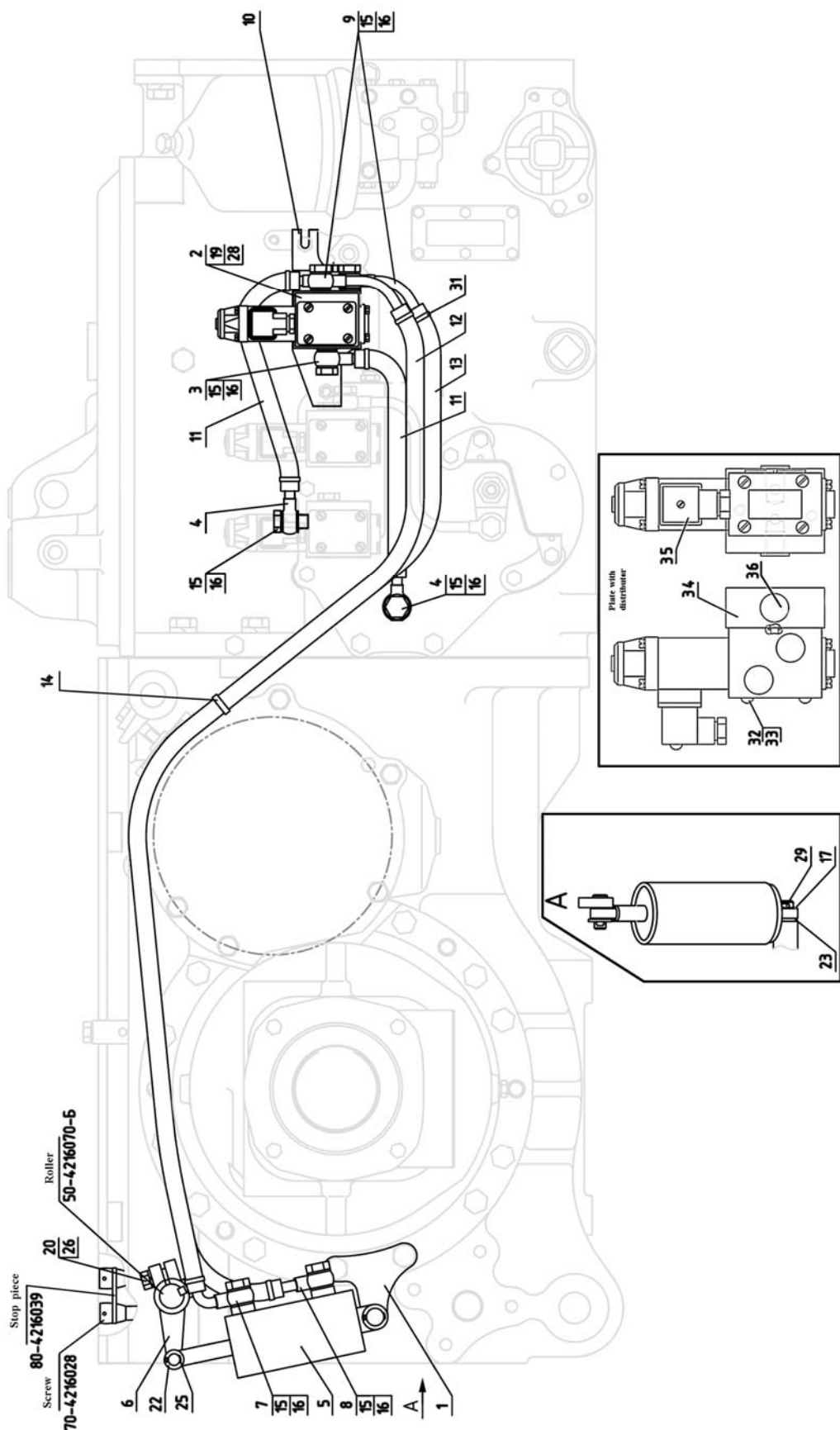


Fig. 42.5. Rear power take-off shaft control

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.5		1221M-4216005	1	Rear power take-off shaft control (can be used for tractors BELARUS-1221/1221.2/1221.3 with wet brakes)
	1	1221-4216010Б	1	Bracket
	2	1221-4216180	1	Plate with distributor
	3	Φ80-3407720	2	Oil pipe
	4	1221-4216035	2	Tip
	5	80-4216100	1	Cylinder
	6	1521-4216020	1	Lever
	7	822-4801190	1	Oil pipe
	8	822-4803195	1	Oil pipe
	9	85-4216130	2	Oil pipe
	10	1221-4216253	1	Bracket
	11	1221-4216016	2	Sleeve L= (1300±10) mm
	12	1221-4216111	1	Sleeve L= (1300±10) mm
	13	1221-4216112	1	Sleeve L= (1400±10) mm
	14	80-3723045-01	1	Collar
	15	Д18-051	8	Bolt
	16	Д18-055А	16	Sealing ring
	17	A61.01.601	1	Washer
	19	M8-6gx20.88.35.019	2	Bolt
	20	M12x35	2	Bolt
	22	C 12.01.019	1	Washer
	23	C16.01.019	1	Washer
	25	3,2x18.019	1	Split pin
	26	4x36	1	Split pin
	28	8T	2	Washer
	29	12 0T	1	Washer
	31	TORRO 12-20/9-CGW	8	Clamp "NORMA"
	32	822-4801182	4	Screw
	33	5T	4	Washer
	34	1221-4216254	1	Plate
	35	RH 06101-012/00GAM	1	Hydraulic distributor
	36	80-3405038	4	Plug (technological)

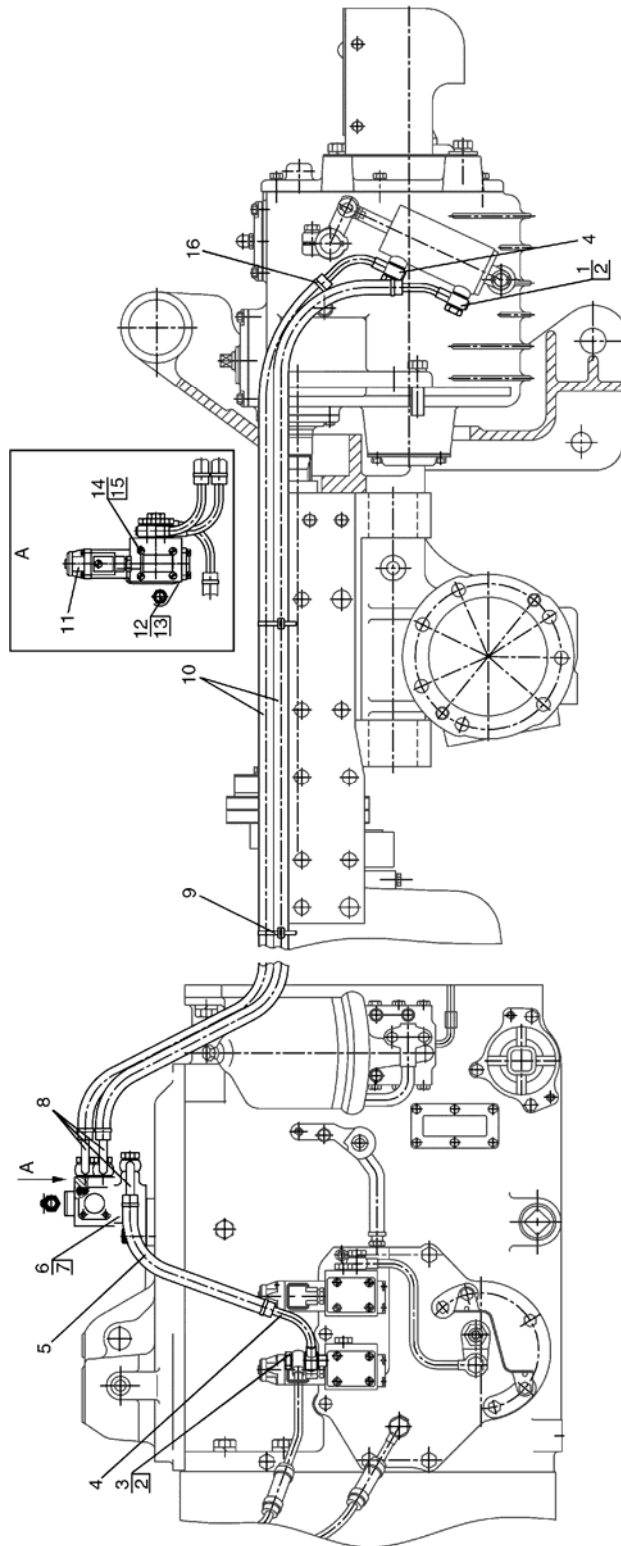


Fig. 42.6. Front power take-off shaft control
(BELARUS-1221B/1221B.2)

Group 42. Power take-off
Subgroup 4216. Front power take-off shaft control (BELARUS-1221B/1221B.2)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.6		1521-4218010	1	Front PTO control
	1	1221-4216035	1	Tip
	2	Д18-055А	11	Ring
	3	240-1111103	1	Bolt
	4	85-4216130	2	Oil pipe
	5	1521-4218003-01	1	Sleeve
	6	1521-4218001	1	Plate
	7	1521-4218002	1	Gasket
	8	1521-4218020	3	Oil pipe
	9	80-3723045	3	Collar
	10	1521-4218003	2	Sleeve
	11	RH 06101-012/00GAM	1	Hydraulic distributor
	12	M10x35	2	Bolt
	13	ШП 10	2	Washer
	14	ВМ5x50	4	Screw
	15	ШП 5	4	Washer
16	12-20/9-C6W	6	Clamp "NORMA" TORRO	

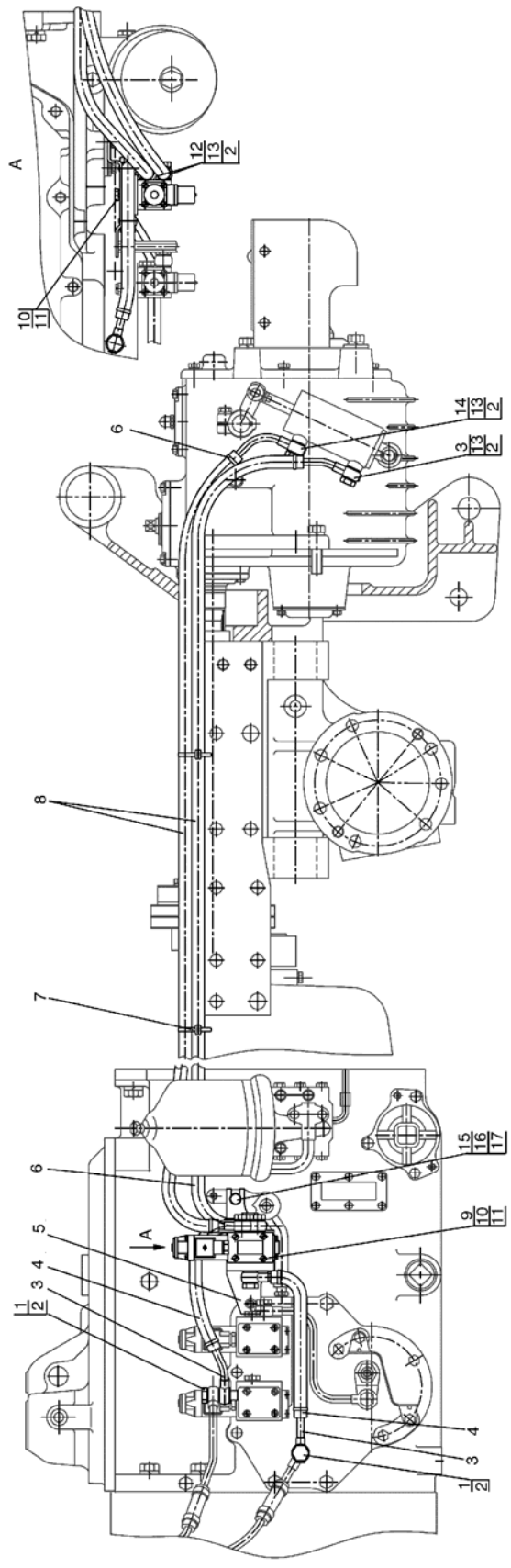


Fig. 42.7. Front power take-off shaft control
(BELARUS-1221/1221.2/1221.3)

Group 42. Power take-off
Subgroup 4216. Front power take-off shaft control
(BELARUS-1221/1221.2/1221.3)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.7		1523-4218010	1	Front PTO control
	1	240-1111103	2	Bolt
	2	Д18-055-A	6	Sealing ring
	3	1221-4216035	3	Tip
	4	1221-4218014	2	Sleeve
	5	1221-4216253	1	Bracket
	6	12-20/9-CGW	2	Clamp "Norma" TORRO
	7	80-3723045-01	4	Collar
	8	1221-4218016	2	Sleeve
	9	1221-4216180	1	Plate with distributor
	10	M8x20	2	Bolt
	11	ШП 8	2	Washer
	12	Φ80-3407720	4	Oil pipe
	13	Д18-051	6	Bolt
	14	1221-4216055	1	Tip
	15	M10x20	1	Bolt
	16	ШЧ 10	1	Washer
17	ШП 10	1	Washer	

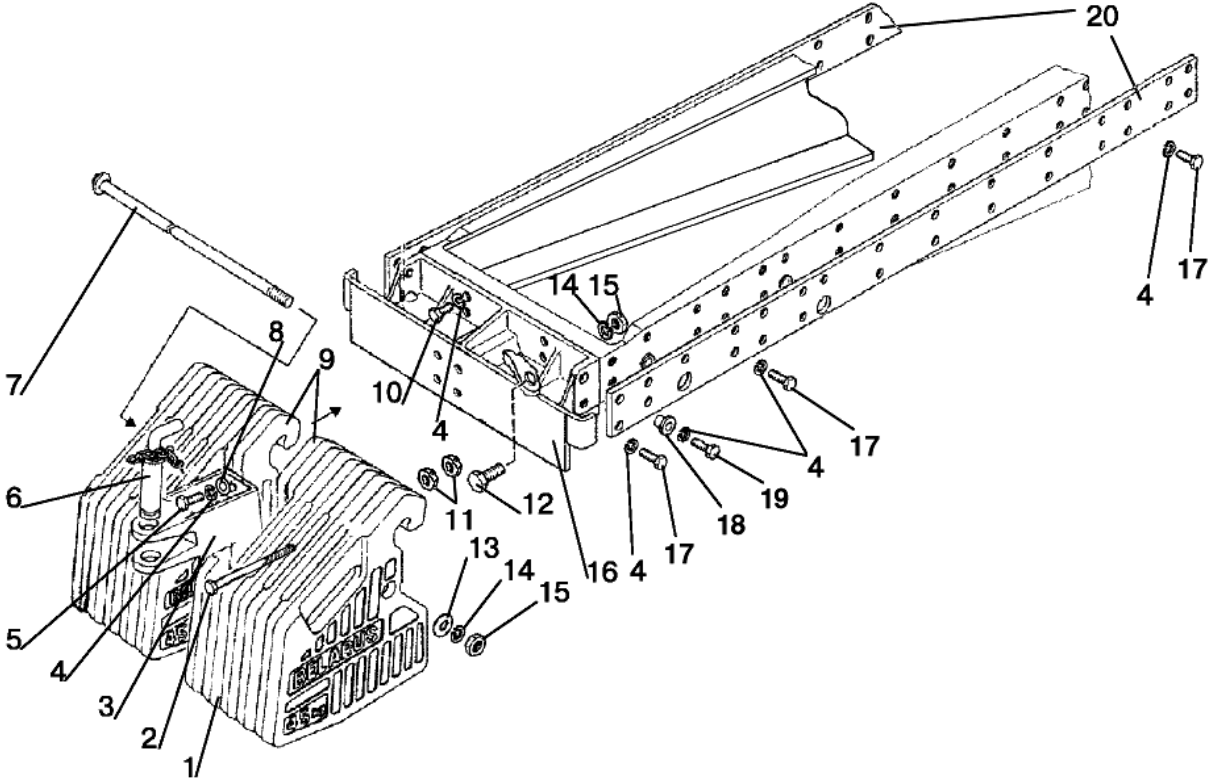


Fig. 42.8. Ballast

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
42.8	1	80-4235011-A	8	Weight (45 kg)
	2	1025-4235012	2	Bolt
	3	85-4235025-Б	1	Ear
	4	ШП 16	46	Washer
	5	M16x45	2	Bolt
	6	70-4235030	1	Pivot bolt
	7	1025-4235015-01	1	Draw bar
	8	ШЧ 16	2	Washer
	9	1521-4235011-A	2	Weight (40 kg)
	10	M16x40	4	Bolt
	11	M18	4	Nut
	12	70-4605036	2	Bolt
	13	40-3502084	1	Washer
	14	ШП 20	3	Washer
	15	M20	3	Nut
	16	1521-4235020	1	Bracket
	17	M16x50	38	Bolt
	18	1521-4535029	2	Bushing
	19	M16x60	2	Bolt
	20	1222-4235012	2	Plate

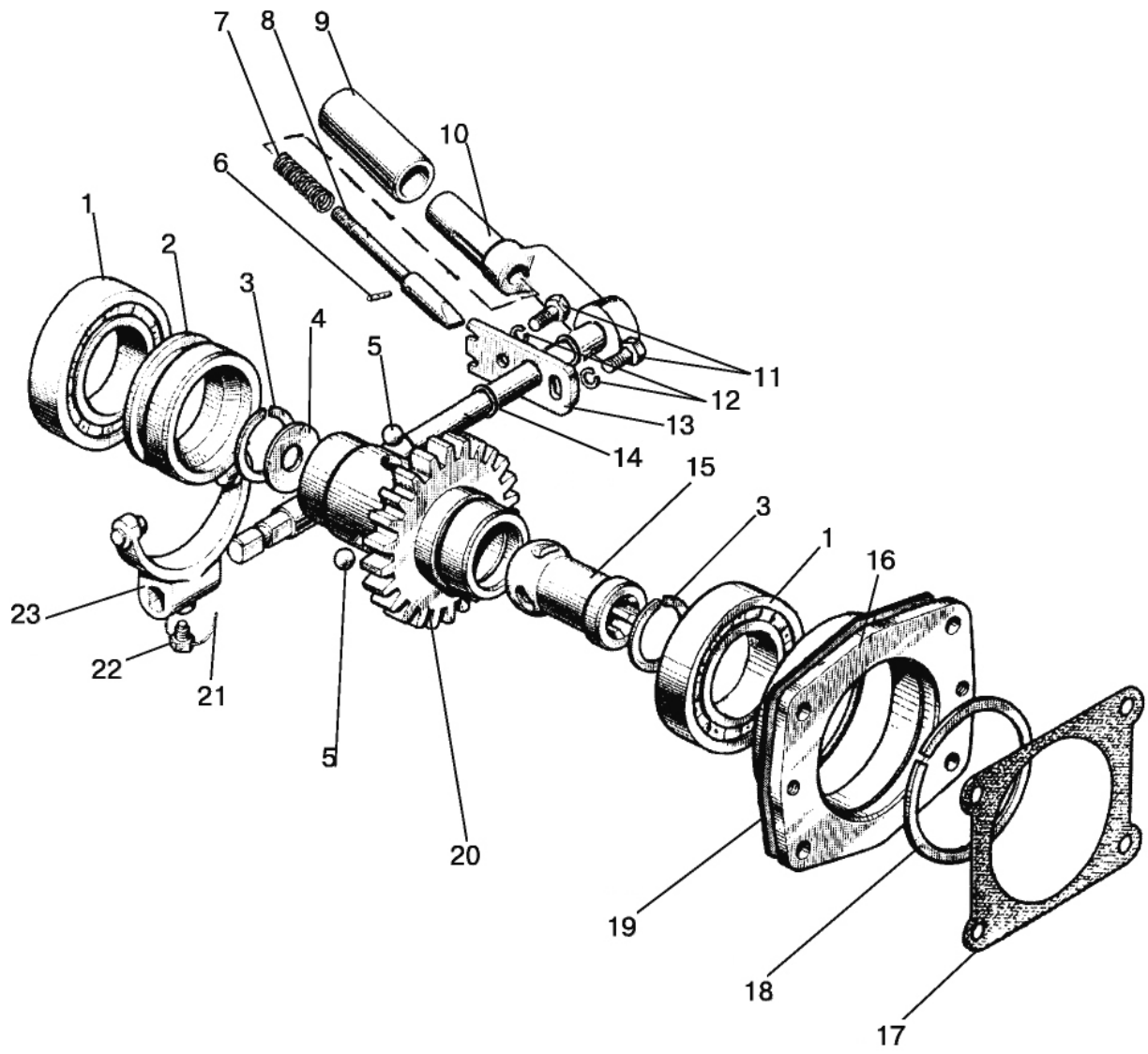


Fig. 46.1.Pump drive

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

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

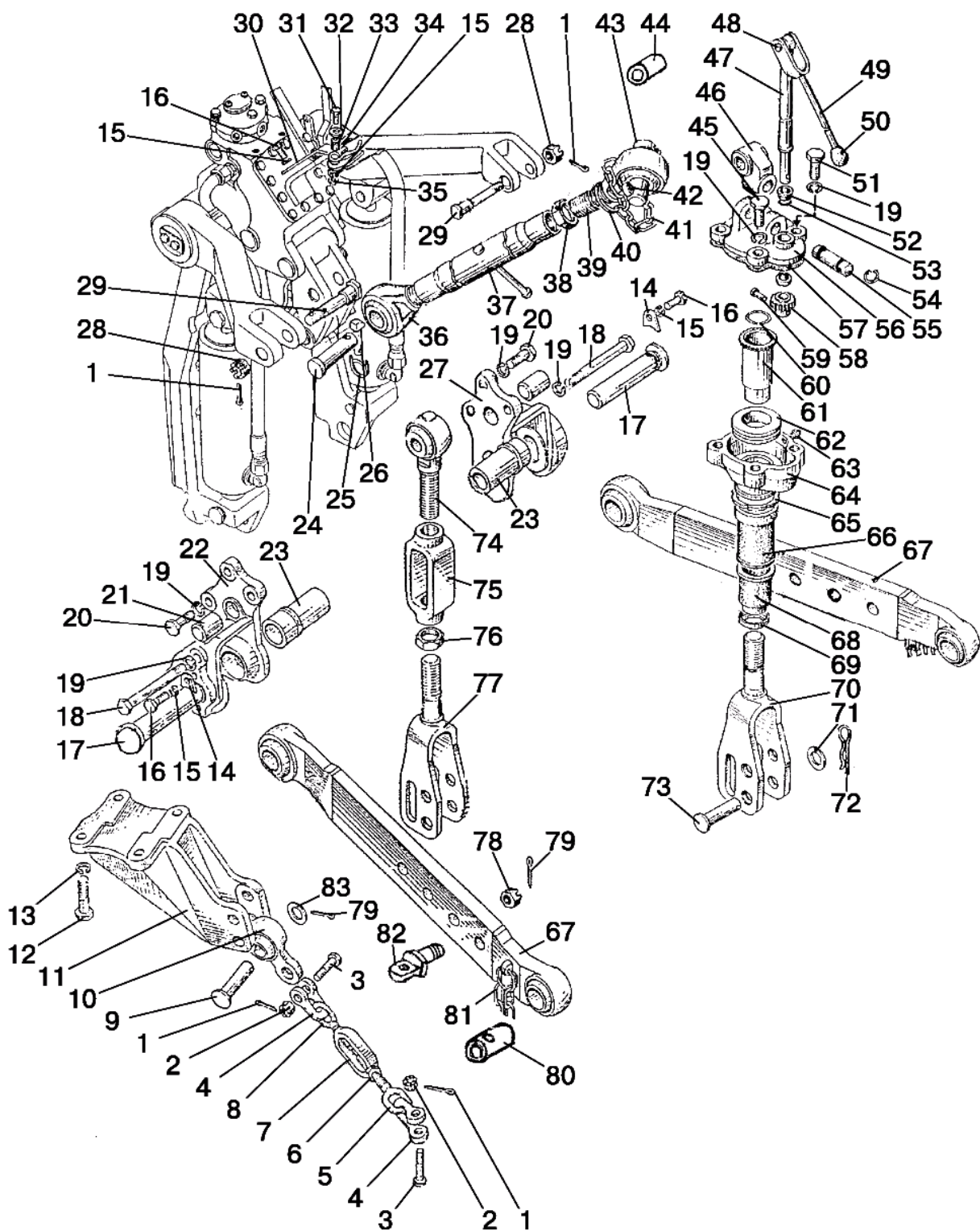


Fig. 46.2. Hitch with hydraulic lift

**Group 46. Remote-cylinder hydraulic system
Subgroup 4605. Hitch with hydraulic lift**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description	
46.2		1220-4605510-05	1	Rear hitch (1-83)	
		1220-4605120	2	Turnbuckle (1-8, 10)	
		1223-4605530-04	2	Rod (67, 78, 79, 81, 82)	
		1220-4605590	1	Upper rod (36-43)	
		1220-4605610-01	2	Drop link (19, 45-66, 68-70)	
		1220-4605670	1	Bracket (16, 30-35)	
		1220-4605695	1	Screw (39-43)	
		1220-4605612-01	1	Drop link (74-77) (optional)	
		1	4x36	6	Split pin
		2	M16	4	Nut
		3	1220-4605104	4	Bolt
		4	1220-4605107	4	Eye bar
		5	1220-4605102	2	Screw
		6	M24	2	Nut
		7	1220-4605103	2	Turnbuckle
		8	1220-4605102-01	2	Screw (LH)
		9	Φ50-4605084	2	Pin
		10	1220-4605105	2	Eye bar
		11	1220-4605091-Б1	1	Right bracket
			1220-4605091-Б1-01	1	Left bracket
		12	680-2707024	8	Bolt
		13	ШП 20	8	Washer
		14	1220-4605504	2	Plate
		15	ШП 12	5	Washer
		16	M12x25	4	Bolt
		17	1220-4605503	2	Pin
		18	80-2800016-01	2	Bolt
		19	ШП 16	16	Washer
		20	1220-4605506	6	Bolt
		21	1220-4605507	2	Pin
		22	1220-4605501-01	1	Bracket
		23	1220-4605502	2	Bushing
		24	A61.10.001-02	1	Pin
		25	A61.05.004	1	Ring
		26	A61.05.005	1	Cotter key
		27	1220-4605501	1	Bracket
		28	M20x1,5	2	Nut
		29	142-4605076	2	Pin
		30	1220-4605675	1	Bracket
		31	M12x35	1	Bolt
		32	ШЧ 12	1	Washer
		33	50-4605069	1	Bushing
	34	A61.07.002	1	Spring	
	35	M12	1	Nut	
	36	A61.02.100-03	1	Screw	
	37	A61.03.100	1	Pipe	
	38	A61.02.003	1	Safety nut	
	39	1220-4605570	1	Screw with hinge Ø 32 (3 cat.)	
		A61.02.100-04	1	Screw with hinge Ø 22,5	
		A61.02.100-05	1	Screw with hinge Ø 25,7 (2 cat.)	
	40	A61.03.002	2	Ring	
	41	A61.08.001-03	2	Chain (7 chain links)	
	42	A61.05.100-05	1	Cotter key with ring	

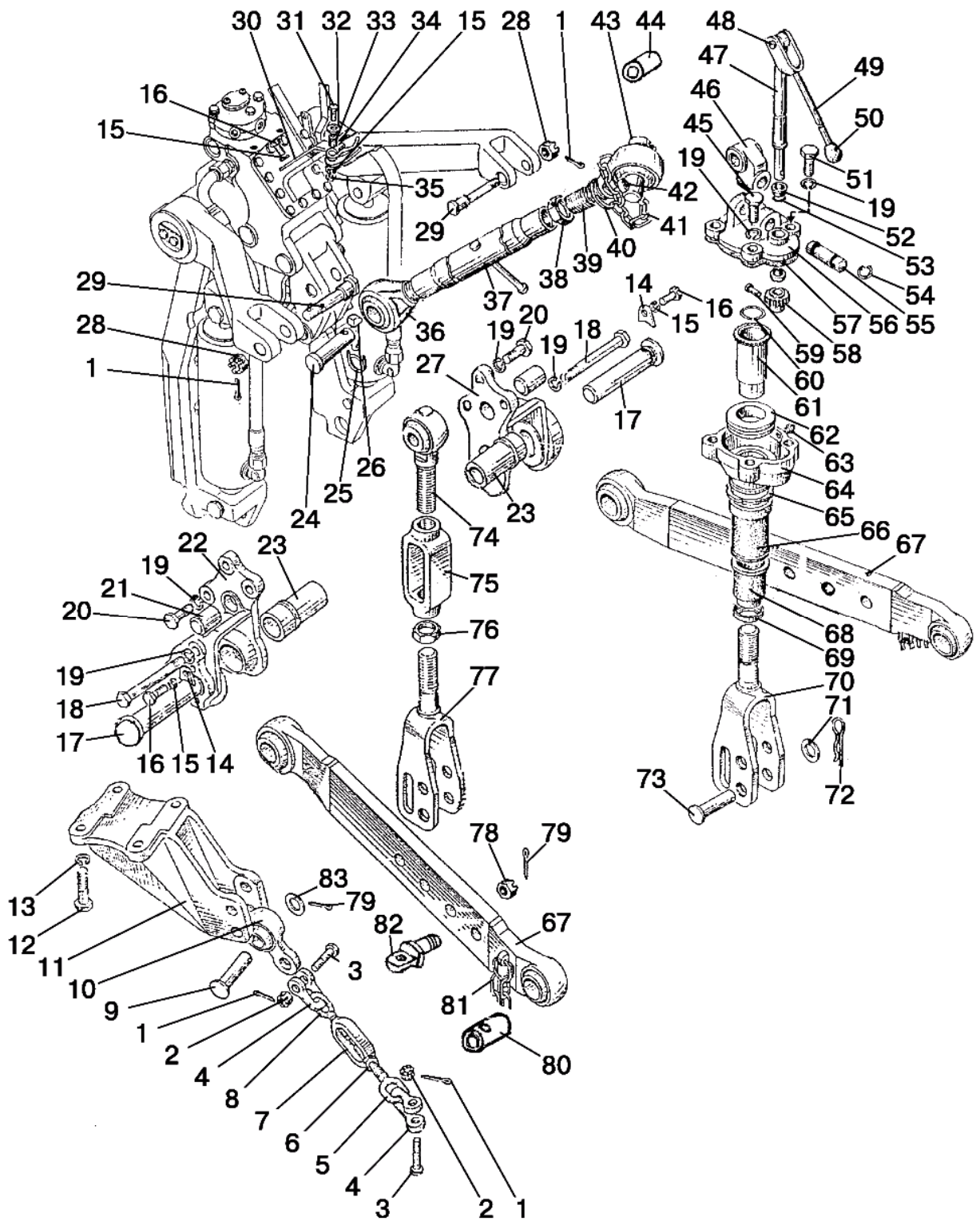


Fig. 46.2. Hitch with hydraulic lift

**Group 46. Remote-cylinder hydraulic system
Subgroup 4605. Hitch with hydraulic lift**

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

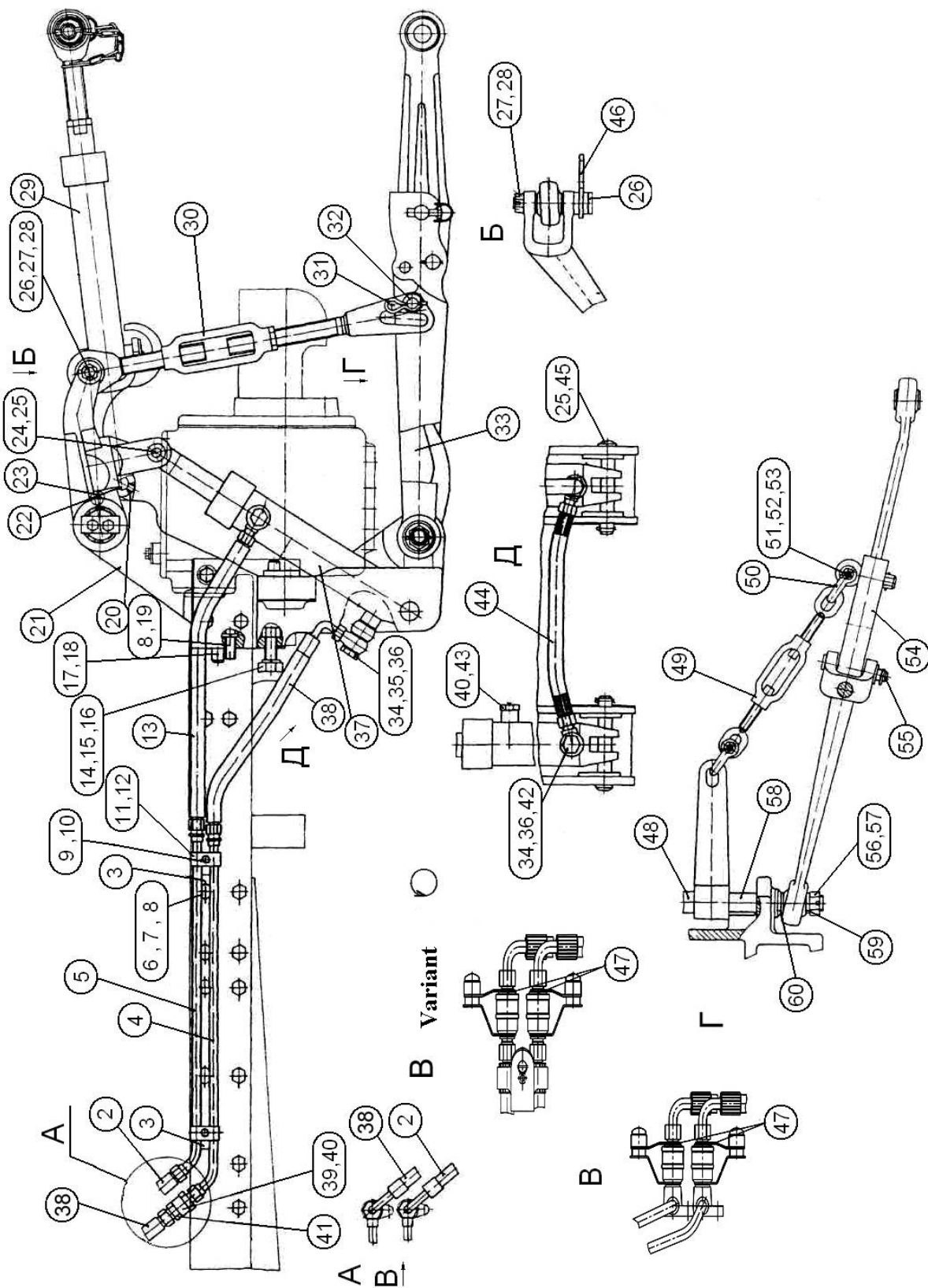


Fig. 46.3. Front hitch

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

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

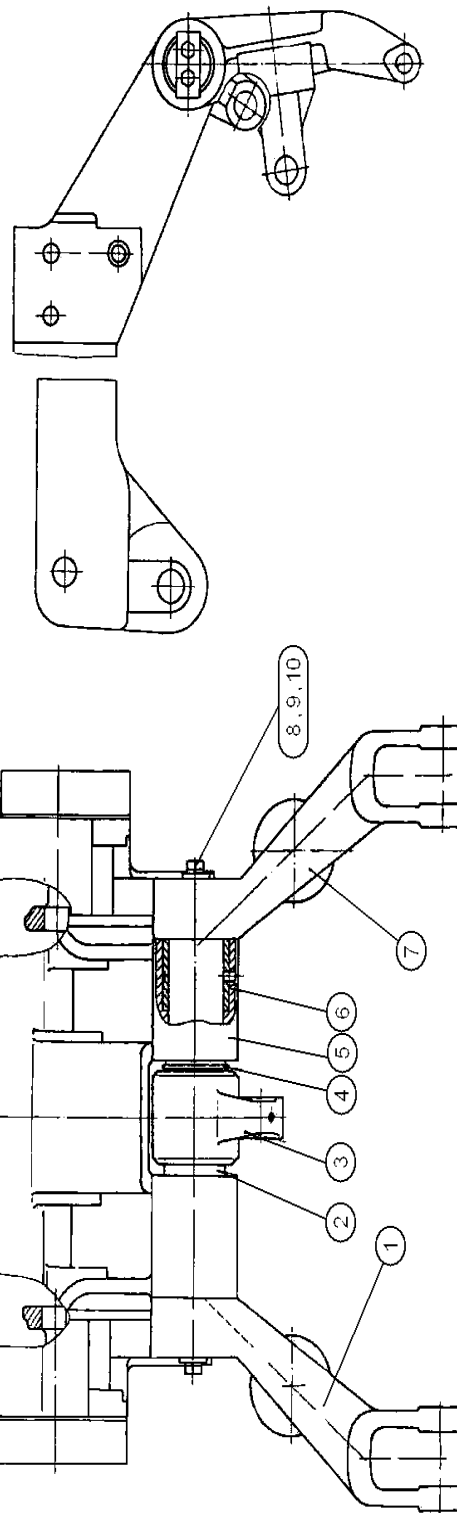


Fig. 46.4. Bracket

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

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

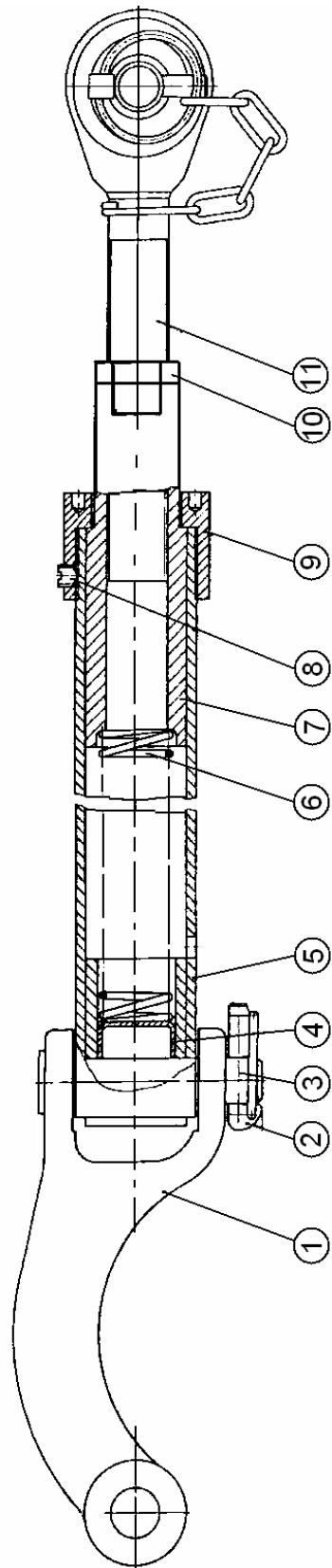


Fig. 46.5. Link (upper)

Group 46. Remote-cylinder hydraulic system
Subgroup 4606. Link (upper)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.5	1	1220-4606042	1	Clevis
	2	A61.05.000	1	Cotter
	3	A61.10.001-02	1	Pin
	4	40-4211082	1	Plug
	5	2822-4606050	1	Pipe
	6	1220-4606043	1	Spring
	7	2822-4606041	1	Slider
	8	BM10x10	1	Screw
	9	1220-4606044	1	Nut
	10	A61.02.003	1	Locking nut
	11	A61.03.200-01	1	Screw

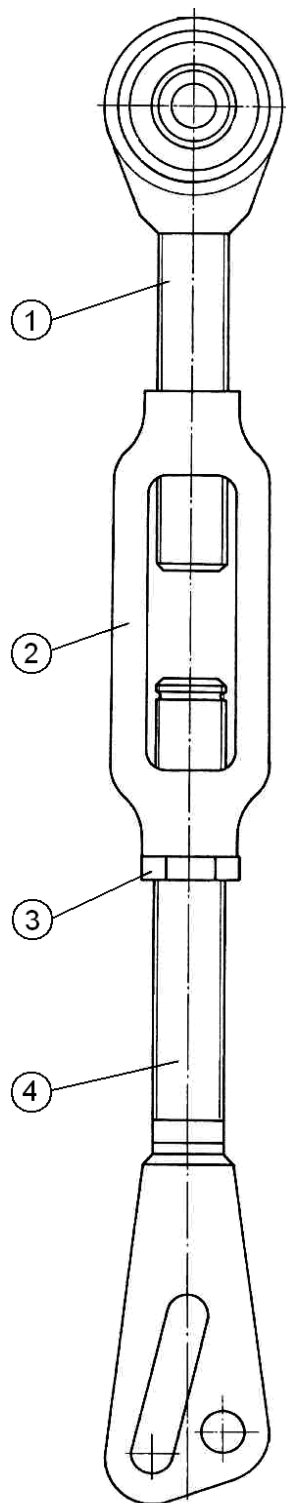


Fig. 46.6. Drop link

Group 46. Remote-cylinder hydraulic system
Subgroup 4606. Drop link

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.6		1220-4606150	1	Drop link
	1	1220-4606160	1	Screw
	2	A61.02.001	1	Turnbuckle
	3	A61.02.003	1	Locking nut
	4	70-4605100	1	Fork

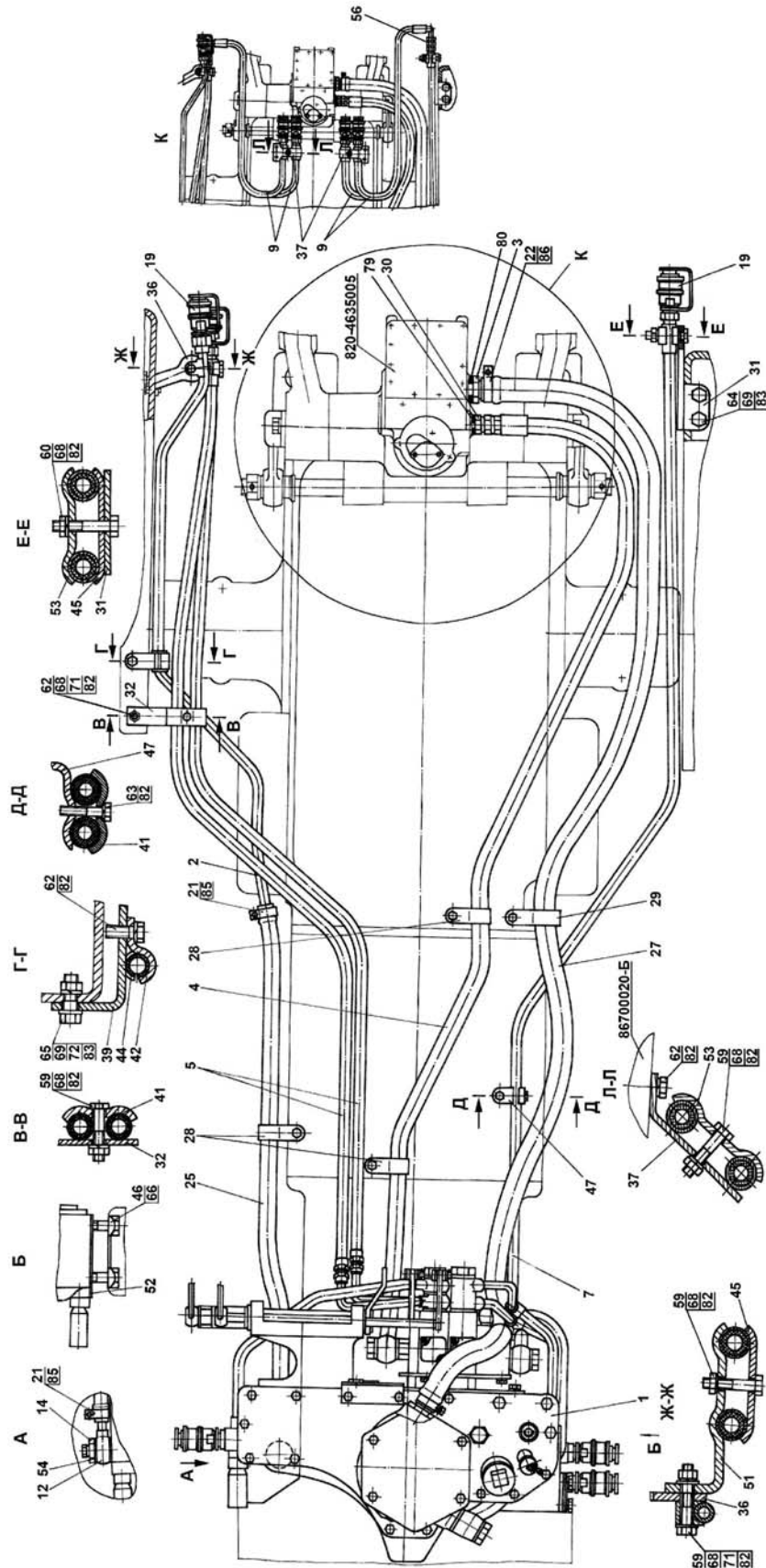


Fig. 46.7a. Hydraulic units and fittings

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7a		M1221-4600010	1	Hydraulic system
	1	M1221-4600015	1	Hydraulic system body
	2	K1221-4607125	1	Pipe
	3	85-4607034	1	Union
	4	П80-4607120	1	High-pressure hose Ø16x2 armoured.
	5	П100-4607140-01	2	High-pressure hose Ø10x1 armoured.
	7	680-4607140-02	2	High-pressure hose Ø10 x1 armoured
	9	680-4607140-06	4	High-pressure hose Ø10 x1 armoured
	12	C80-4607380	1	Pipe
	14	80-4607455	1	Bolt
	19	M036.50Б.10	5	Left case
	21	XC-21	2	Clip (additional substitution 85)
	22	XC-31	2	Clip (additional substitution 86)
	25	K1221-4607011	1	Hose
	27	П80-4607012	1	Hose
	28	П80-4607013	3	Clip
	29	П80-4607013-01	1	Clip
	30	П80-4607016	1	Union
	31	M80-4607014	1	Bracket
	32	80B-4607209	1	Bracket
	36	85-4607431	1	Bracket
	37	885-4607511	2	Bracket
	39	1321-3407022	1	Bracket
	41	70-3407146	2	Strip
	42	70-3407163-01	1	Clamp
	44	70-3506027	1	Bushing
	45	70-4607156	2	Strip
	46	70-4607168	2	Plate
	47	70-4607178	1	Bracket
	51	H50-4607137	1	Bracket
	52	50-4608049	1	Gasket
	53	40-4607029-A	3	Strip
	54	40-4607038-A-01 or PM 1/2	2	Washer
	56	H.036.02.002	4	Pass-through union
59		3	Bolt M8-6gx40.88.35.019 ГOCT 7795-70	
60		1	Bolt M8-6gx45.88.35.019 ГOCT 7795-70	
62		2	Bolt M8-6gx25.88.35.019 ГOCT 7796-70	
63		1	Bolt M8-6gx35.88.35.019 ГOCT 7796-70	
64		2	Bolt M10-6gx25.88.35.019 ГOCT 7796-70	
65		1	Bolt M10-6gx30.88.35.019 ГOCT 7796-70	
66		4	Bolt M14x1,5-6gx45.88.35.019 ГOCT 7796-70	
68		5	Nut M8-6H.6.019 ГOCT 5915-70	
69		3	Nut M10-6H.6.019 ГOCT 5915-70	
71		3	Washer C 8.01.019 ГOCT 11371-78	
72		1	Washer C 10.01.019 ГOCT 11371-78	
79		1	Ring 021-024-19-2-2 ГOCT 18829-73/ГOCT 9833-73	

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

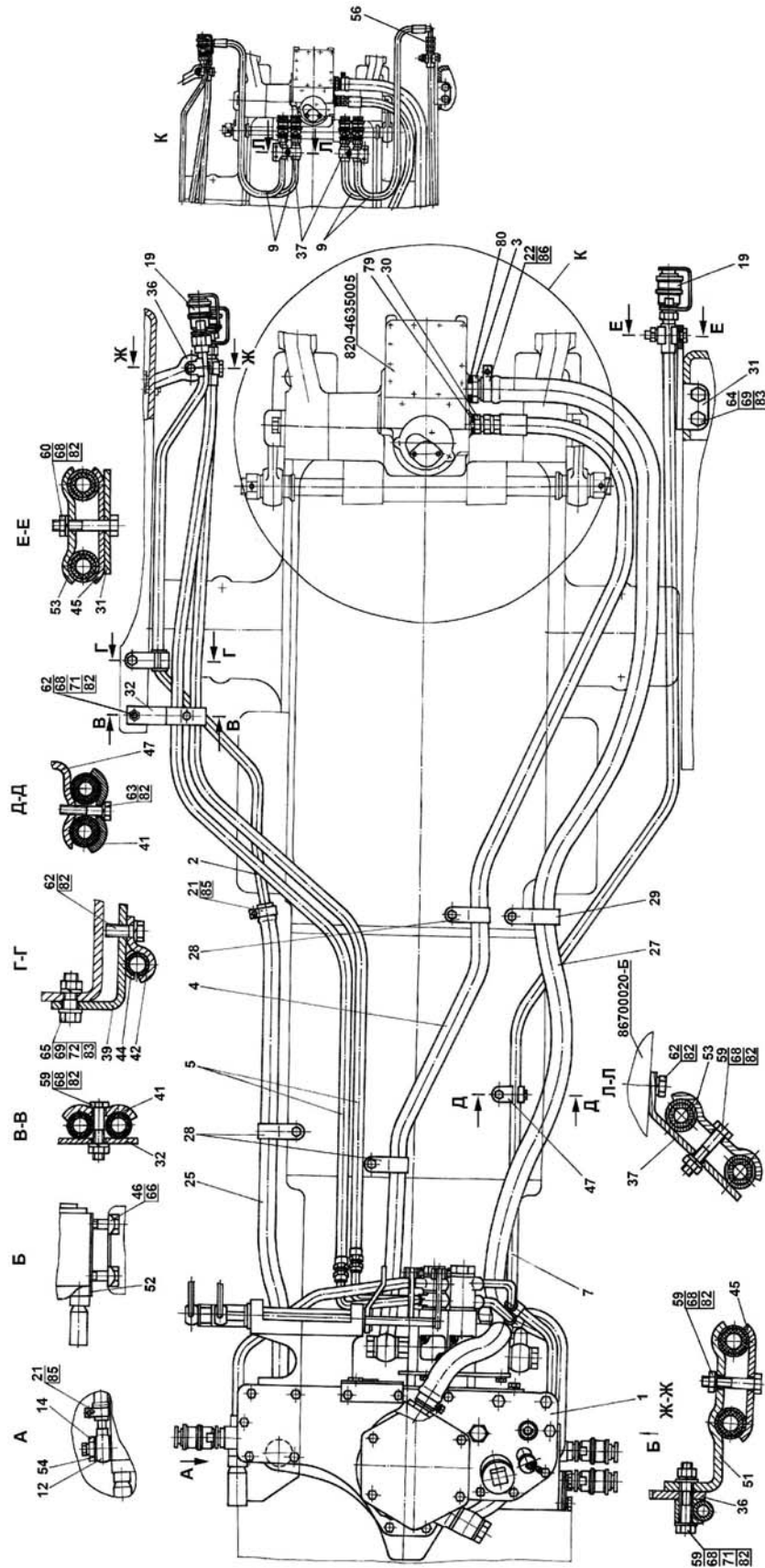


Fig. 46.7a. Hydraulic units and fittings

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7a	80		1	Ring 027-032-30-1-4 ГОСТ 18829-73/ГОСТ 9833-73
	82		7	Washer 8T OCT 37.001.115-75
	83		3	Washer 10 OT OCT 37.001.115-75
	85		2	Clamp "NORMA" TORRO 16-25/9-C6W
	86		2	Clamp "NORMA" TORRO 25-40/9-C6W
	87	M036.50Б.20	6	Right body (is packaged with spare tools and accessories)

ГОСТ – Government Standard (GOST)/State Standard;

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7b		M1221-4600015	1	Hydraulic system
	1	85-4604010	1	Pump drive
	2	85-4604030	1	Fork
	3	85-4604040	1	Switch-off handle
	8	C85-4607025	1	Pipe
	9	C80-4607030	1	Bracket
	10	80-4607040-04	1	Bracket
	11	C85-4607045	1	Pipe
	13	C85-4607060-Б	1	Pipe
	16	C85-4607080-Б	1	Pipe
	17	952-4607080	1	Union
	19	C85-4607100	1	Pipe
	20	C85-4607105	1	Pipe
	21	C80-4607075-Г	1	Pipe
	22	C80-4607260	2	Rod
	23	C80-4607260-01	1	Rod
	25	C80-4607375	1	Pipe
	26	C80-4607380	1	Pipe
	28	85-4608010	1	Hydraulic system body
	30	A61-030-A1	3	Pin
	32	HШ32M-3	1	Gear pump (additional substitution by pos. 128 or pos.129 or pos.130)
	35	M036.50Б.10	4	Left body
	37	H.036.12.010	4	Plug
	39	XC-31	2	Clip
	45	36-1022054-A	1	Gasket
	47	40-4607032	6	Locking bolt
	48	40-4607033-A-01 or PM 24	6	Washer
	49	40-4607037	3	Bolt
	50	40-4607038-A-01 or PM 1/2	14	Washer
	53	50-3401092	1	Washer
	55	50-4604044	1	Plate
	56	50-4604046	1	Bolt of fork
	57	50-4608027-Б	1	Plug
	58	50-4607031	1	Bolt
	59	50-4607032-Б	1	Bracket
	61	70-4607096-A	1	Connection
	63	50-4607097	4	Gasket
	64	50-4607099	1	Cover
	67	70-3401093	3	Lever tip
	68	70-4604037	1	Gasket
	70	70-4607144	12	Washer
	73	70-4608033	3	Gasket
	75	80-4608019	1	Cover
	76	C80-4607063	1	Hose
77	C80-4607086	3	Lever	
78	C80-4607088	6	Pin	
82	85-3407101	2	Connection	
86	85-4607432	1	Bracket	
88	85-4608021	2	Plug	
91	1221-1802091	2	Screw plug	
94		2	Bolt M8-6gx16.88.35.019 ГОСТ (Government Standard (GOST)/State Standard) 7796-70	

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7b	95		3	Bolt M8-6gx20.88.35.019 ГOCT 7796-70
	96		18	Bolt M8-6gx25.88.35.019 ГOCT 7796-70
	97		3	Bolt M8-6gx30.88.35.019 ГOCT 7796-70
	98		1	Bolt M8-6gx35.88.35.019 ГOCT 7796-70
	99		1	Bolt M8-6gx45.88.35.019 ГOCT 7795-70
	100		4	Bolt M8-6gx65.88.35.019 ГOCT 7796-70
	102		3	Bolt M10-6gx20.88.35.019 ГOCT 7796-70
	103		1	Bolt M10-6gx30.88.35.019 ГOCT 7796-70
	104		2	Bolt M10-6gx40.88.35.019 ГOCT 7796-70
	106		2	Bolt M12-6gx35.88.35.019 ГOCT 7796-70
	108		6	Nut M8-6H.6.019 ГOCT 5915-70
	109		5	Nut M10-6H.6.019 ГOCT 5915-70
	111		3	Stud M10 3p/6gx20.66.019 ГOCT 22034-76
	112		2	Stud M10 3p/6gx35.66.019 ГOCT 22034-76
	114		1	Ring 013-017-25-1-4 ГOCT 18829-73/ГOCT 9833-73
	115		5	Ring 017-022-30-1-4 ГOCT 18829-73/ГOCT 9833-73
	116		2	Ring 021-025-25-1-4 ГOCT 18829-73/ГOCT 9833-73
	117		1	Ring 035-040-30-1-4 ГOCT 18829-73/ГOCT 9833-73
	121		12	Split pin 3,2x18.019 ГOCT 397-79
	123		32	Washer 8T OCT 37.001.115-75
	124		11	Washer 10 OT OCT 37.001.115-75
	125		2	Washer 12 OT OCT 37.001.115-75
	126		1	Distributor RS-213 Mita
	127		1	Wire 1,0-O-C ГOCT 3282-74 (250 mm)
	128	НШ32МА-3	1	Gear pump (additional substitution by pos.32 or pos.129 or pos. 130)
	129	НШ32Д-3	1	Gear pump (additional substitution by pos.32 or pos. 128 or pos. 130)
	130	НШ32УКФ-3	1	Gear pump (additional substitution by pos.32 or pos. 128 or pos. 129)

ГOCT – Government Standard (GOST)/State Standard;

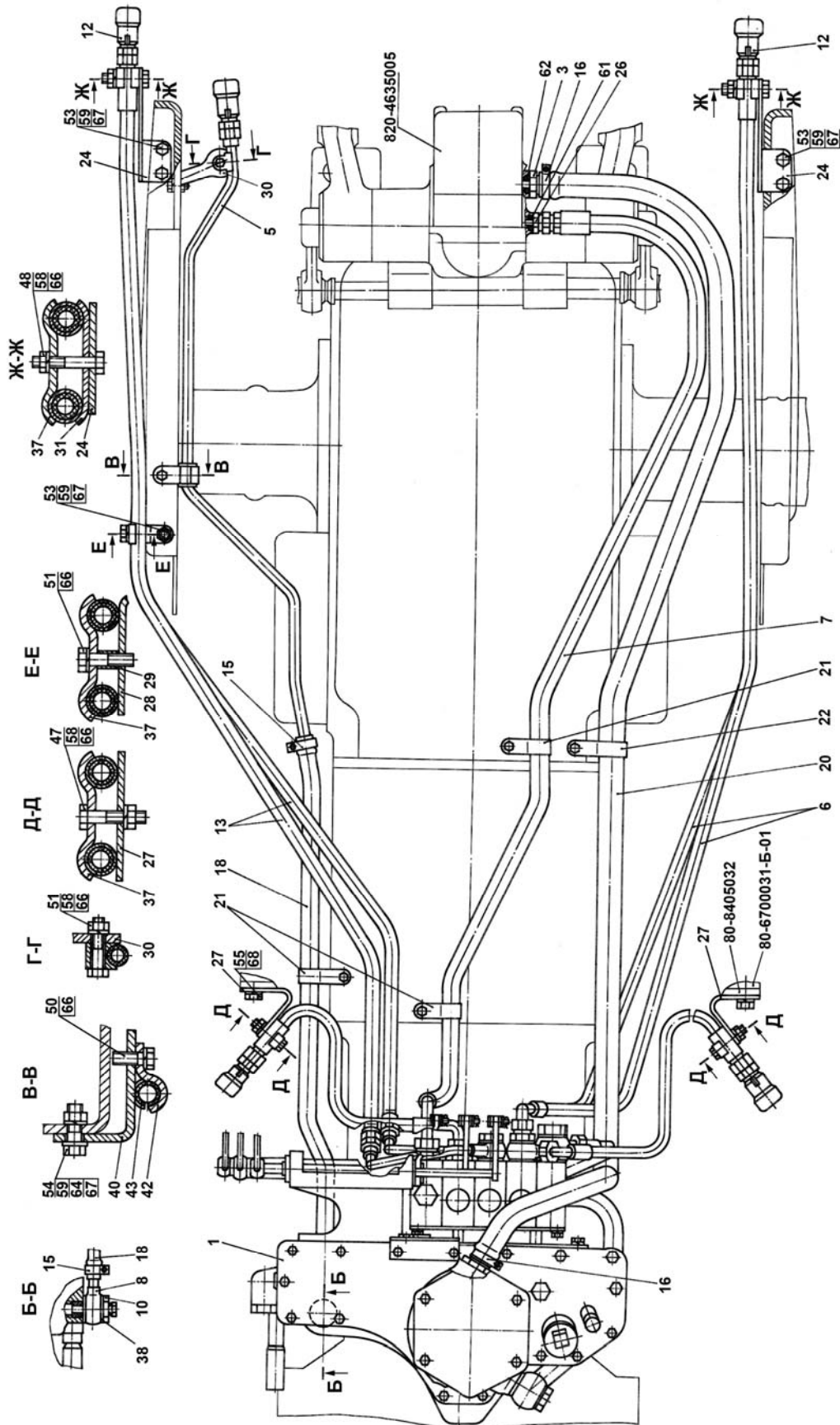


Fig. 46.7c. Hydraulic units and fittings

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7c		P1221-4600010	1	Hydraulic system
	1	P1221-4600015	1	Hydraulic system body
	3	85-4607034	1	Union
	5	K1221-4607125	1	Pipe
	6	680-4607140-03	2	High-pressure hose Ø10 x1 armoured
	7	1221-4607140	1	High-pressure hose Ø16x2 armoured
	8	C80-4607380	1	Pipe
	10	80-4607455	1	Bolt
	12	M036.50Б.10	5	Left body
	13	П100-4607140-01	2	High-pressure hose Ø10x1 armoured
	15	XC-21	2	Clip
	16	XC-31	2	Clip
	18	K1221-4607011	1	Hose
	20	П80-4607012	1	Hose
	21	П80-4607013	3	Clip
	22	П80-4607013-01	1	Clip
	24	M80-4607014	2	Bracket
	26	П80-4607016	1	Union
	27	M80-4607017	2	Bracket
	28	M80-4607018	2	Bracket
	29	E1021-4607044	1	Bushing
	30	85-4607431	1	Bracket
	31	70-4607156	2	Strip
	37	40-4607029-A	5	Strip
	38	40-4607038-A-01 or PM 1/2	2	Washer
	40	1321-3407022	1	Bracket
	42	70-3407163-01	1	Clamp
	43	70-3506027	1	Bushing
	47		2	Bolt M8-6gx40.88.35.019 ГOCT 7795-70
	48		2	Bolt M8-6gx45.88.35.019 ГOCT 7795-70
	50		1	Bolt M8-6gx25.88.35.019 ГOCT 7796-70
	51		2	Bolt M8-6gx35.88.35.019 ГOCT 7796-70
	53		5	Bolt M10-6gx25.88.35.019 ГOCT 7796-70
	54		1	Bolt M10-6gx30.88.35.019 ГOCT 7796-70
	55		1	Bolt M12-6gx30.88.35.019 ГOCT 7795-70
	58		5	Nut M8-6H.6.019 ГOCT 5915-70
	59		6	Nut M10-6H.6.019 ГOCT 5915-70
	61		1	Ring 021-024-19-2-2 ГOCT 18829-73/ГOCT 9833-73
	62		1	Ring 027-032-30-1-4 ГOCT 18829-73/ГOCT 9833-73
	64		1	Washer C 10.01.019 ГOCT 11371-78
66		7	Washer 8T OCT 37.001.115-75	
67		6	Washer 10 OT OCT 37.001.115-75	
68		1	Washer 12 OT OCT 37.001.115-75	
		M036.50Б.20	6	Right body (attached to the tractor)

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

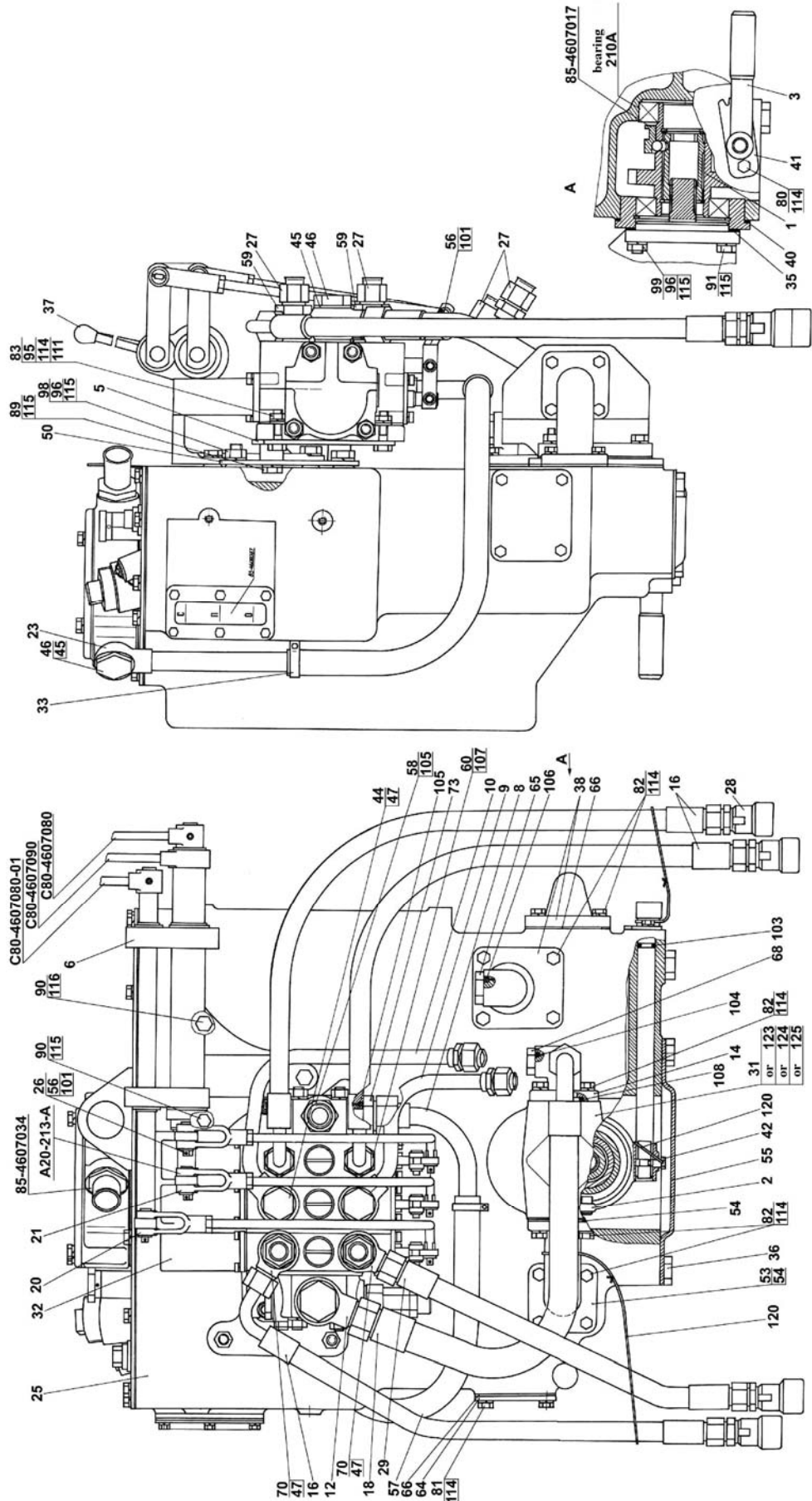


Fig. 46.7d. Hydraulic units and fittings

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7d		P1221-4600015	1	Hydraulic system body
	1	85-4604010	1	Pump drive
	2	85-4604030	1	Fork
	3	85-4604040	1	Switch-off handle
	5	P1221-4607030	1	Bracket
	6	80-4607040-04	1	Bracket
	8	P1221-4607050	1	Pipe
	9	85-4607060-Б	1	Pipe
	10	85-4607080-Б	1	Pipe
	12	952-4607080	1	Union
	14	Д80-4607100	1	Connection
	16	680-4607140-04	3	High-pressure hose Ø10x1 armoured.
	18	952-4607140	1	High-pressure hose Ø16x2 armoured.
	20	P1221-4607260	1	Rod
	21	P1221-4607260-01	2	Rod
	23	80B-4607375	1	Pipe
	25	85-4608010	1	Hydraulic system body
	26	A61-030-A1	3	Pin
	27	H.036.12.010	4	Plug
	28	M036.50Б.10	4	Left body
	29	ПН.036.83.040	1	High-pressure hose Ø10x1 armoured.
	31	НШ32М-3	1	Gear pump (additional substitution by pos.123 or pos.124 or pos.125)
	32	РП70-1221	1	Distributor
	33	XC-26	2	Clip
	35	36-1022054-A	1	Gasket
	36	1221-1802091	2	Screw plug
	37	70-3401093	3	Lever tip
	38	85-3407101	2	Connection
	40	70-4604037	1	Gasket
	41	50-4604044	1	Plate
	42	50-4604046	1	Bolt of fork
	44	40-4607032	2	Locking bolt
	45	40-4607033-A-01 or PM 24	4	Washer
	46	40-4607037	2	Bolt
	47	40-4607038-A-01 or PM 1/2	8	Washer
	50	50-4607032-Б	1	Bracket
	53	50-4607096-A	1	Connection
	54	50-4607097	4	Gasket
	55	50-4607099	1	Cover
	56	70-4607144	6	Washer
	57	M80-4607011	1	Hose
	58	П80-4607016	1	Union
	59	952-4607061	2	Union
	60	P85-4607204	2	Union
	64	70-4608019	1	Cover
	65	85-4608021	2	Plug
	66	70-4608033	3	Gasket
	68	50-4608027-Б	1	Plug

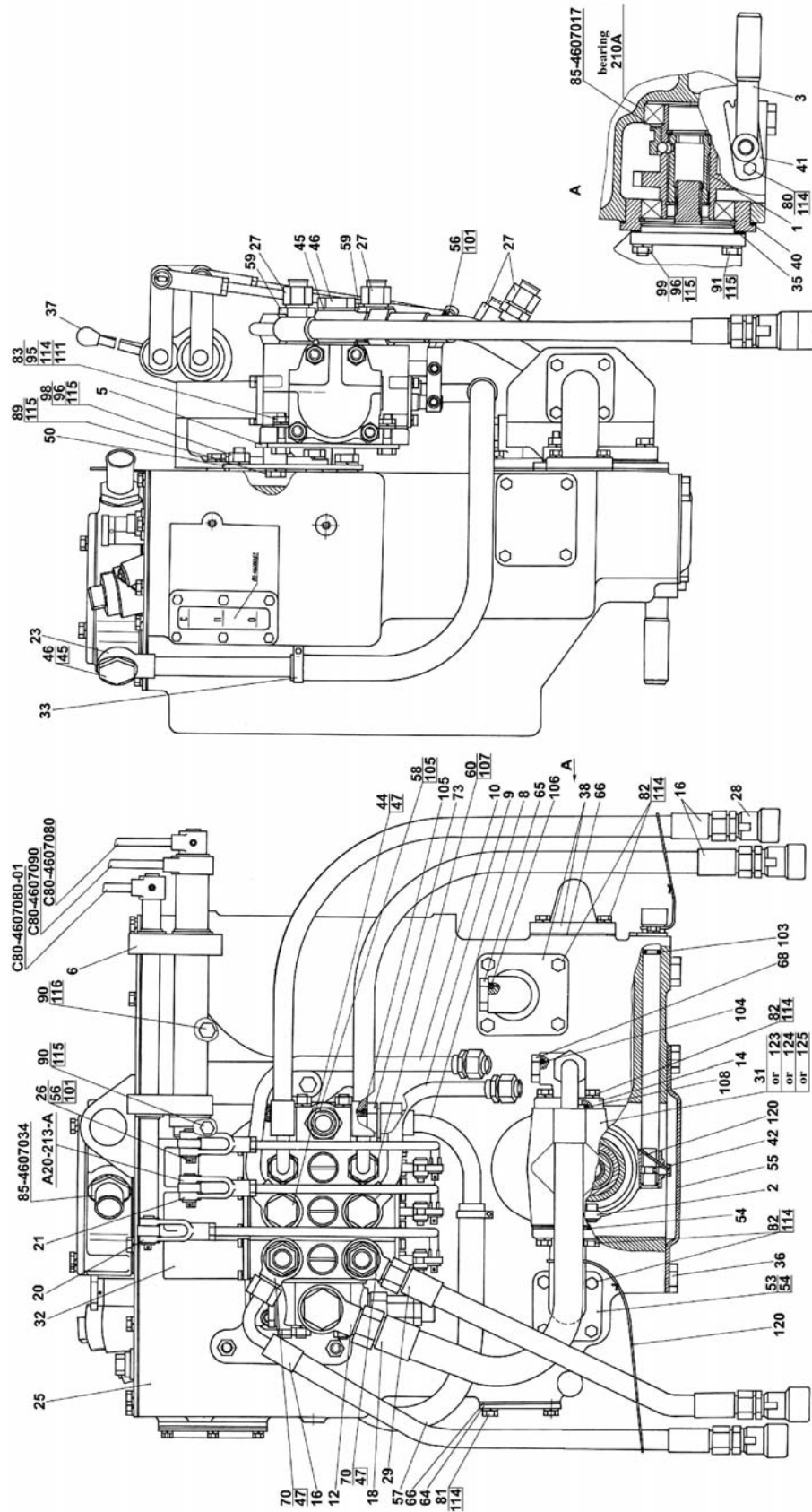


Fig. 46.7d. Hydraulic units and fittings

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.7d	70	530-4614029	2	Elbow
	73	H.036.04.011	1	Screw-in union
	80		2	Bolt M8-6gx16.88.35.019 ГOCT 7796-70
	81		4	Bolt M8-6gx20.88.35.019 ГOCT 7796-70
	82		20	Bolt M8-6gx25.88.35.019 ГOCT 7796-70
	83		4	Bolt M8-6gx30.88.35.019 ГOCT 7796-70
	89		4	Bolt M10-6gx20.88.35.019 ГOCT 7796-70
	90		1	Bolt M10-6gx30.88.35.019 ГOCT 7796-70
	91		2	Bolt M10-6gx40.88.35.019 ГOCT 7796-70
	93		2	Bolt M12-6gx35.88.35.019 ГOCT 7796-70
	95		4	Nut M8-6H.6.019 ГOCT 5915-70
	96		5	Nut M10-6H.6.019 ГOCT 5915-70
	98		3	Stud M10 3p/6gx20.66.019 ГOCT 22034-76
	99		2	Stud M10 3p/6gx35.66.019 ГOCT 22034-76
	101		6	Split pin 3,2x18.019 ГOCT 397-79
	103		1	Ring 013-017-25-1-4 ГOCT 18829-73/ГOCT 9833-73
	104		1	Ring 017-022-30-1-4 ГOCT 18829-73/ГOCT 9833-73
	105		2	Ring 021-024-19-2-2 ГOCT 18829-73/ГOCT 9833-73
	106		2	Ring 021-025-25-1-4 ГOCT 18829-73/ГOCT 9833-73
	107		2	Ring 024-028-25-1-4 ГOCT 18829-73/ГOCT 9833-73
	108		1	Ring 035-040-30-1-4 ГOCT 18829-73/ГOCT 9833-73
	111		4	Washer C 8.01.019 ГOCT 11371-78
	114		30	Washer 8T OCT 37.001.115-75
	115		12	Washer 10 OT OCT 37.001.115-75
	116		2	Washer 12 OT OCT 37.001.115-75
120		3	Wire 1,0-O-C ГOCT 3282-74 (250 mm)	
123	НШ32МА-3	1	Gear pump (additional substitution by pos.31 or pos. 124 or pos. 125)	
124	НШ32Д-3	1	Gear pump (additional substitution by pos. 31 or pos. 123 or pos. 125)	
125	НШ32УКФ-3	1	Gear pump (additional substitution by pos.31 or pos. 123 or pos. 124)	

ГOCT – Government Standard (GOST)/State Standard

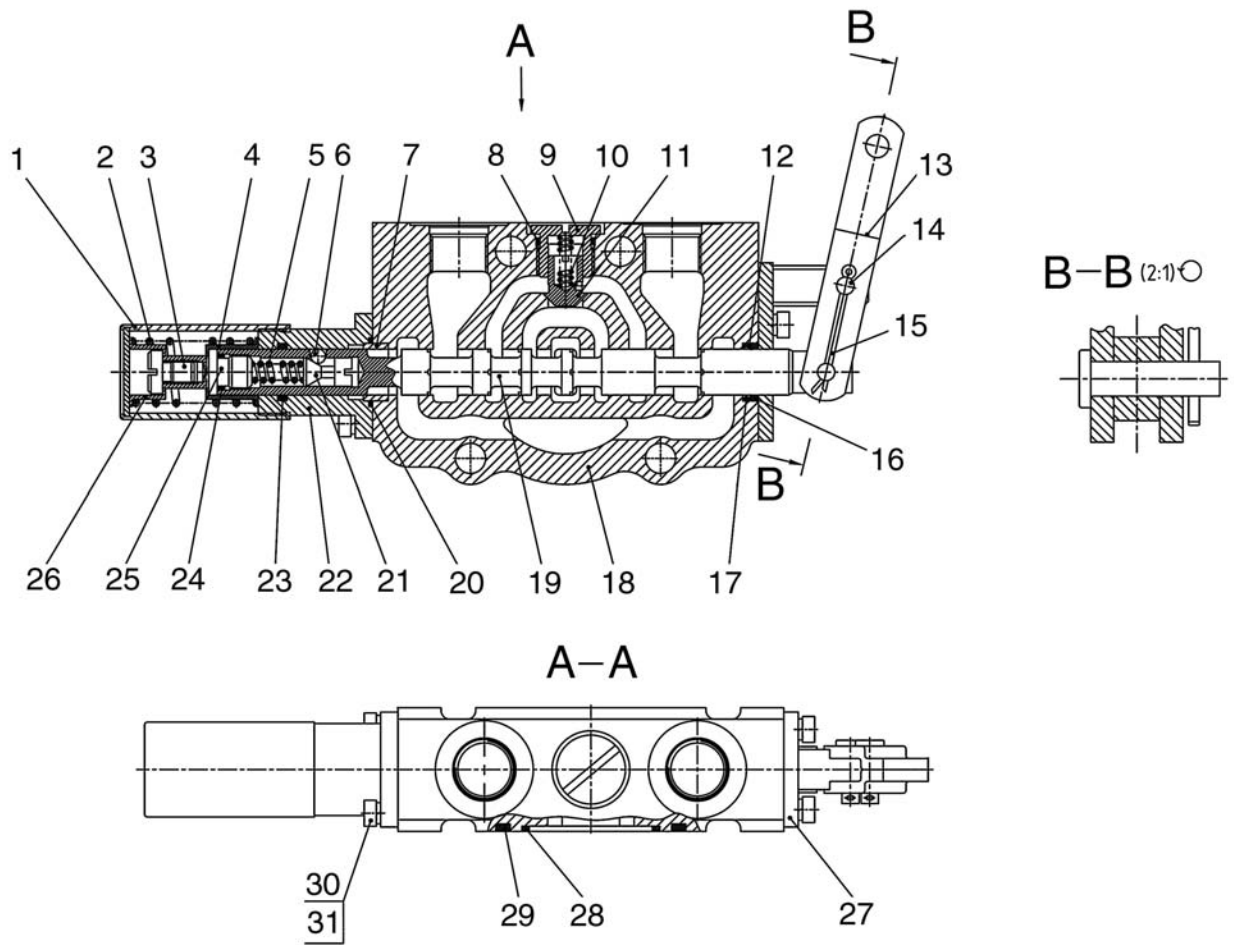


Fig. 46.8. Hydraulic distributor РП70

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.8		PП70-8-0-M	1	Hydraulic distributor
	1	PП70-090	1	Pipe
	2	P16.3.10.10	1	Spring
	3	PП70-026	1	Screw
	4	PП70-018-01	1	Dish
	5	PП70-033	1	Spring
	6	5-100	3	Ball 5-100
	7	PП70-021	1	Bushing
	8	017-020-19-2-2	1	Ring
	9	PП70-024	1	Plug
	10	PП70-027	1	Spring
	11	PП70-023	1	Latch
	12	PП70-031	1	Ring
	13	PП70-042	2	Strip
	14	6x18	2	Pin
	15	2x40.019	3	Split pin
	16	PП70-032	1	Ring
	17	017-020-19-2-2	2	Ring
	18	PП70-011	1	Body
	19	PП70-013	1	Spool
	20	021-024-19-2-6	1	Ring
	21	PП70-019	1	Lock
	22	PП70-014	1	Cartridge
	23	016-020-25-2-2	1	Ring
	24	009-012-19-1-4	1	Ring
	25	PП70-016	1	Threaded bushing
	26	PП70-018	1	Dish
	27	PП70-070	1	Bracket
	28	036-040-25-2-2	1	Ring
	29	060-066-36-2-2	1	Ring
	30	BM5x12	4	Screw
31	ШП 5	4	Washer	

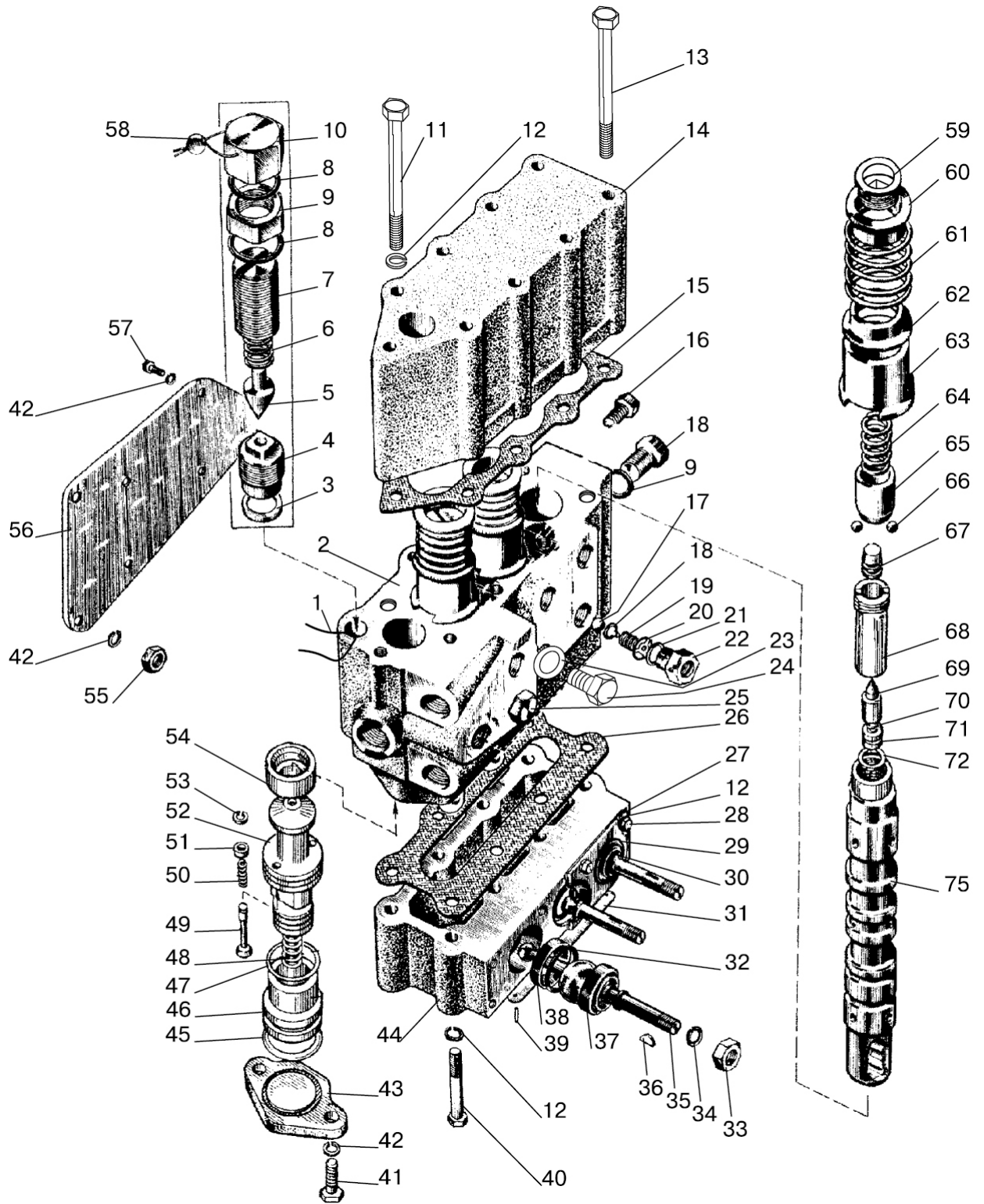


Fig. 46.9. Hydraulic distributor P80

**Group 46. Remote-cylinder hydraulic system
Subgroup P80. Hydraulic distributor P80**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.9		P80-3/4-222-3Гr	1	Hydraulic distributor (1-75)
		P80-23.20.030	1	(60-75)
	1	0,8x200	1	Wire
	2	P80-23.30.421	1	Body
	3	P75-B-028-A	4	Gasket
	4	P80-23.20.063	1	Seal
	5	МКЛВ-16/3Ф-101	1	Needle
	6	P40/75-0808048-Б	1	Spring
	7	P80-049-Б	1	Screw
	8	017-022-30-2-2	3	Ring
	9	P75-058-Б	1	Nut
	10	P75-051-Б	1	Cap
	11	M8x110	3	Bolt
	12	ШП 8	25	Washer
	13	M8x100	6	Bolt
	14	P80-23.20.123	1	Cover
	15	P40/75-0808039-A	1	Gasket
	16	12,5	1	Plug
	17	14,288	3	Ball
	18	P80-23.20.007	3	Guide
	19	P80-23.20.002	3	Spring
	20	P80-23.20.003	3	Washer
	21	024-028-25-2-2	3	Ring
	22	P80-23.20.004	2	Coupling piece
	23	017-22-30-2-2	1	Ring
	24	50-4608027-Б	1	Bolt
	25	P80-23.20.006	1	Blind plug
	26	P75-3-038	1	Gasket
	27	P75-3-057	1	Ring
	28	M8x20	8	Bolt
	29	P75-3-055-Б	1	Dust guard plate
	30	P75-056M	3	Dust guard
	31	P80-23.20.0353-Г1	1	Name plate
	32	028-033-30-2-2	3	Ring
	33	M12x1,25	3	Nut
	34	ШП 12	3	Washer
	35	P75-0546	3	Lever
	36	3x6,5	3	Key
	37	P80-23.20.065	3	Ring
	38	P80-23.20.064	3	Ring
	39	2x6	3	Rivet
	40	M8x55	8	Bolt
	41	M10x25	2	Bolt
	42	ШП 10	9	Washer
	43	P80-23.20.071A	1	Stopper
44	P80-23.20.022	1	Cover	
45	032-037-30-2-2	1	Ring	

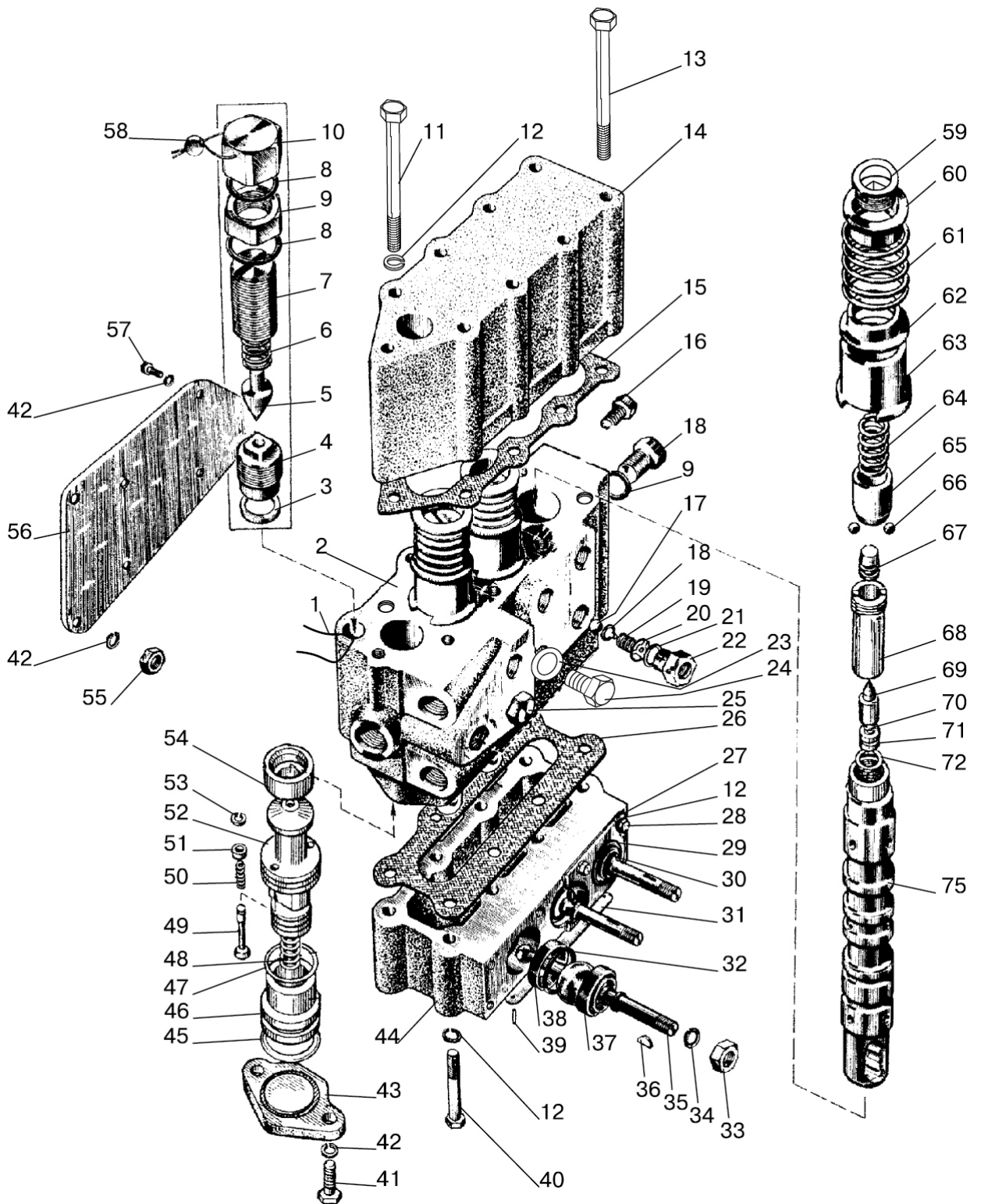


Fig. 46.9. Hydraulic distributor P80

**Group 46. Remote-cylinder hydraulic system
Subgroup P80. Hydraulic distributor P80**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.9	46	P80-23.20.073	1	Guide
	47	025-030-30-2-3	1	Ring
	48	P80-23P.20.072	1	Spring
	49	P75-B3BP-081A	1	Valve
	50	P75- B3BP-082	1	Spring
	51	P80-23R.20.085	1	Washer
	52	P80-23R.20.084	1	By-pass valve
	53	P75-B3BP-083-A	1	Washer
	54	P80-23.20.043	1	Seat
	55	M10	3	Nut
	56	50-4607032-B	1	Bracket
	57	M10x20	4	Bolt
	58	P40/75-0808076	1	Seal
	59	P80-23.20.137	3	Plug
	60	P75-033	3	Low sleeve
	61	P80-23.20.035	3	Spring
	62	P75-034	3	Low sleeve
	63	P80-23.20.031	3	Cartridge
	64	P75-B-032	3	Spring
	65	P75-B-029	3	Bushing
	66	6,35-100	9	Ball
	67	P80-23.20.025	3	Booster
	68	P80.23.20.046-B	3	Bushing
	6S	P80-23.20.045	3	Piston plunger
	70	P80-23.20.036	3	Spring
	71	P80-23.20.027	3	Seal
	72	P75-B-028-A	3	Gasket
	73	P80-23.20.224	3	Spool

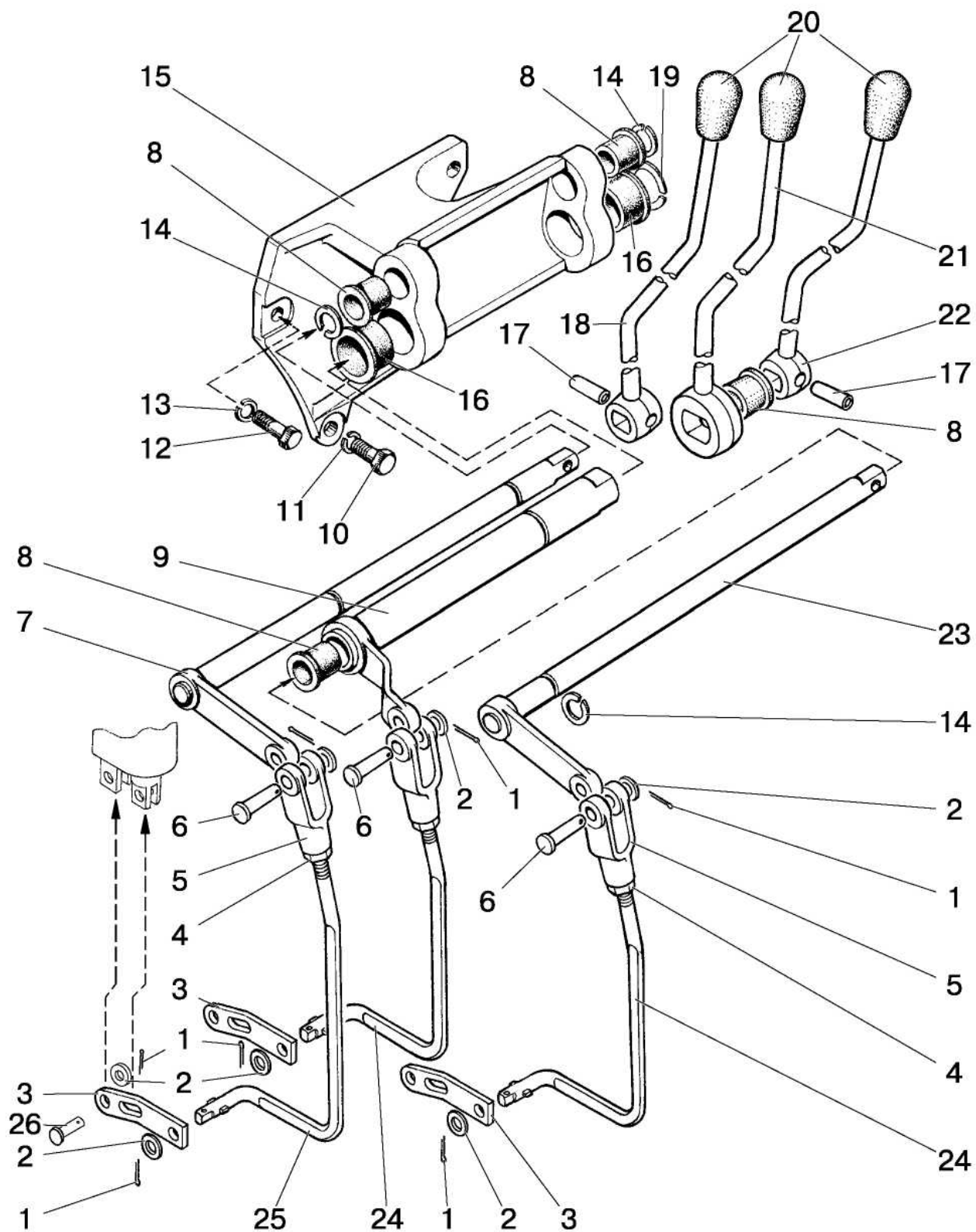


Fig. 46.10. Hydraulic distributor control (PП70, P80)

**Group 46. Remote-cylinder hydraulic system
Subgroup 4607. Hydraulic distributor control
(P170, P80)**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.10	1	3,2x18	9	Split pin
	2	70-4607144	9	Washer
	3	C80-4607086	3	Lever
	4	M8	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	M12x30	2	Bolt
	11	ШП 12	2	Washer
	12	M10x35	1	Bolt
	13	ШП 10	1	Washer
	14	2Б18	3	Ring
	15	85-4607017	1	Bracket
	16	50-4607079-A1	2	Bushing
	17	8x30	2	Pin
	18	C80-4607080-01	1	Lever
	19	2Б32	1	Ring
	20	70-3401093	3	Lever tip
	21	C80-4607090	1	Lever
	22	C80-4607080	1	Lever
	23	80-4607220	1	Shaft
	24	C80-4607261	2	Rod
		P1221-4607261*	2	Rod
	25	C80-4607261-01	1	Rod
P1221-4607261-01*		1	Rod	
26	C80-4607088	3	Pin	

* With distributor P170

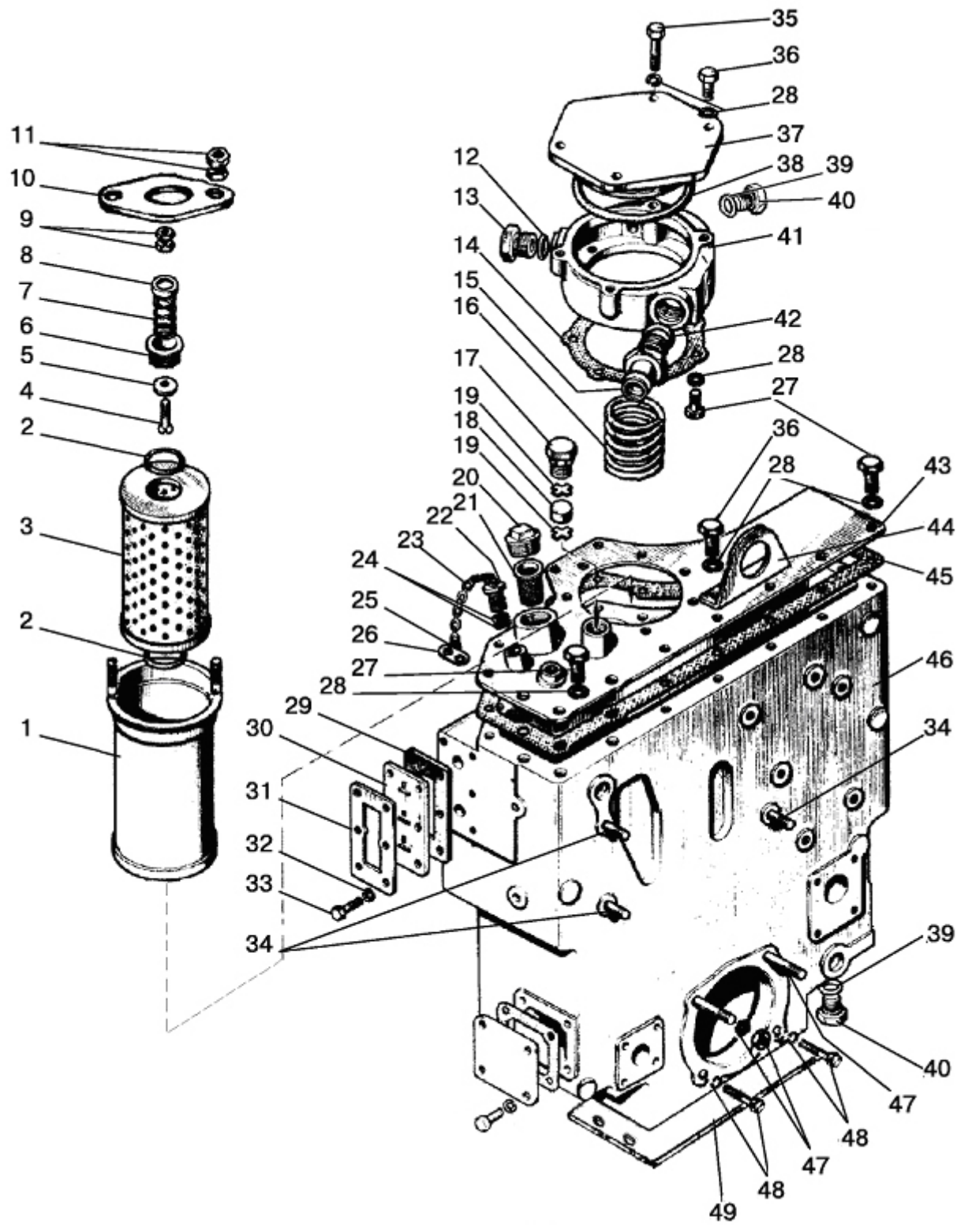


Fig. 46.11. Hydraulic system body and filter

**Group 46. Remote-cylinder hydraulic system
Subgroup 4608. Hydraulic system body and filter**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.11		85-4608010	1	Hydraulic system body (1-47)
		85-4608090	1	Valve(22-26)
		A28.04.10.000	1	Valve (4-9)
	1	A28.04.20.000-A1	1	Body
	2	042-050-46-2-2	2	Ring
	3	761-00-00-00	1	Filtering element Regotmass 635-1
	4	B1.M6x40	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	2M6	2	Nut
	10	A28.04.00.001	1	Stop
	11	M6	4	Nut
	12	021-025-25-1-4	1	Ring
	13	85-4608021	1	Plug
	14	85-4608089	1	Gasket
	15	85-4607034	1	Union
	16	85-4608057	1	Spring
	17	50-4608059	1	Breather plug
	18	50-4608063	1	Filter
	19	50-4608062	2	Breather washer
	20	КГ 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	2	Ring
	25	36-1101067	2	Ring
	26	50-3407069	1	Cotter key
	27	M8x20	23	Bolt
	28	ШП 8	30	Washer
	29	85-4608086-A	1	Gasket
	30	85-4608087	1	Indicator
	31	85-4608088	1	Plate
	32	ШП 6	6	Washer
	33	M6x16	6	Bolt
	34	M10xT2/6gx20	3	Stud
	35	M8x80	1	Bolt
	36	M8x25	5	Bolt
	37	85-4608022	1	Cover
	38	130-135-30-2-4	1	Ring
	39	017-022-30-2-2	1	Ring
	40	50-4608027-B	1	Plug
	41	85-4608018	1	Sleeve
	42	027-032-30-2-4	1	Ring
	43	85-4608025	1	Cover
	44	80-4608073	1	Bracket
	45	85-4608031	1	Gasket
	46	85-4608016-A	1	Hydraulic system body
47	M10xT2/6gx35	2	Stud	
	M10	2	Nut	
48	M10x40	2	Bolt	
	ШП 10	4	Washer	
49	50-4608049-01	1	Gasket	

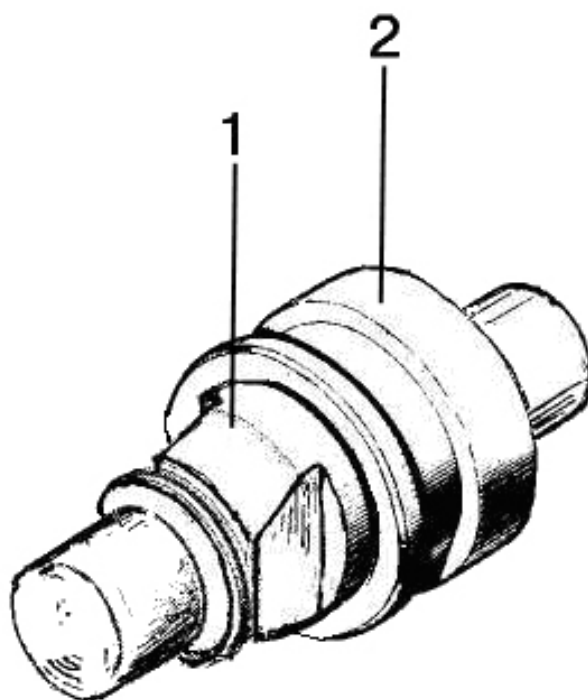


Fig. 46.12. Fast coupling

Group 46. Remote-cylinder hydraulic system
Subgroup M036.50Б. Fast coupling

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.12	1	M036.50Б.20 or 0.653.00 or PPV3.1320.712	1	Coupling (right housing)
	2	M036.50Б.10 or 0.693.10 or PPV3.1320.703	1	Coupling (left housing)

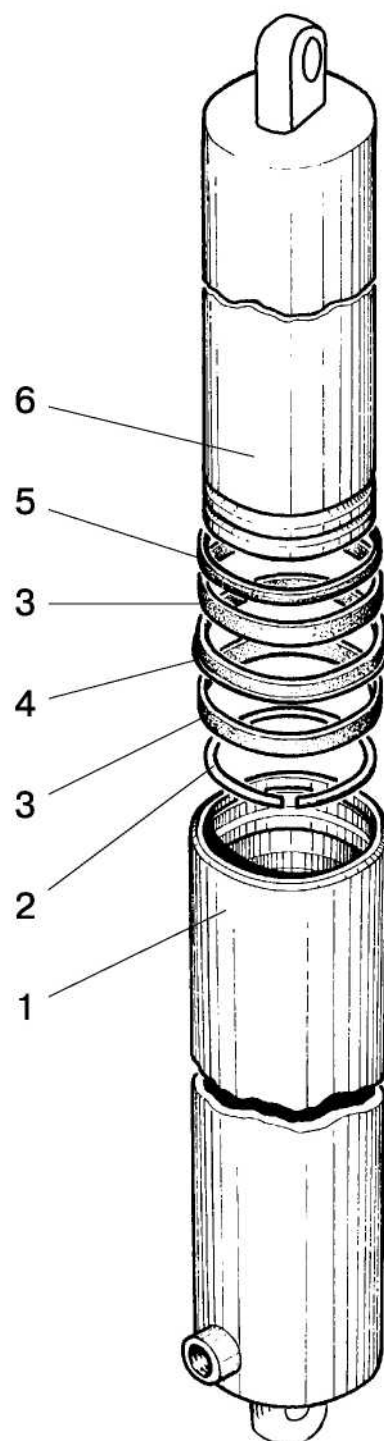


Fig. 46.13. Cylinder of hydraulic lift

**Group 46. Remote-cylinder hydraulic system
Subgroup 4625. Cylinder of hydraulic lift**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description	
46.13		820-4625010-Б or 820E-4625010-Б	1	Cylinder assembly (1-6)	
	1	820-4625020 or 820E-4625020	1	Cylinder	
	2	820-4625015 or 820E-4625015	1	Locking ring	
	3	DFI 80-85-9,5 Simrit or PF48	2	Guide ring	
	4	NI300 80-90-12 or T94AU925	1	Collar	
	5	AUASOB 80-90-6,1-8,3 or Simvitan T94AU925	1	Scraper	
	6	820-4625014-Б or 820E-4625014-Б	1	Plunger	
			820H-4625010-Б	1	Cylinder assembly (1-6)
	1		820H-4625020	1	Cylinder
	2		820H-4625015	1	Locking ring
	3		GR6900800-Z61	2	Guide ring
	4		LI-CUP or RU 2300800 WUAQ3	1	Collar
	5		DA22 or WD-2200800 WUAQ3	1	Scraper
6		820H-4625014-Б	1	Plunger	

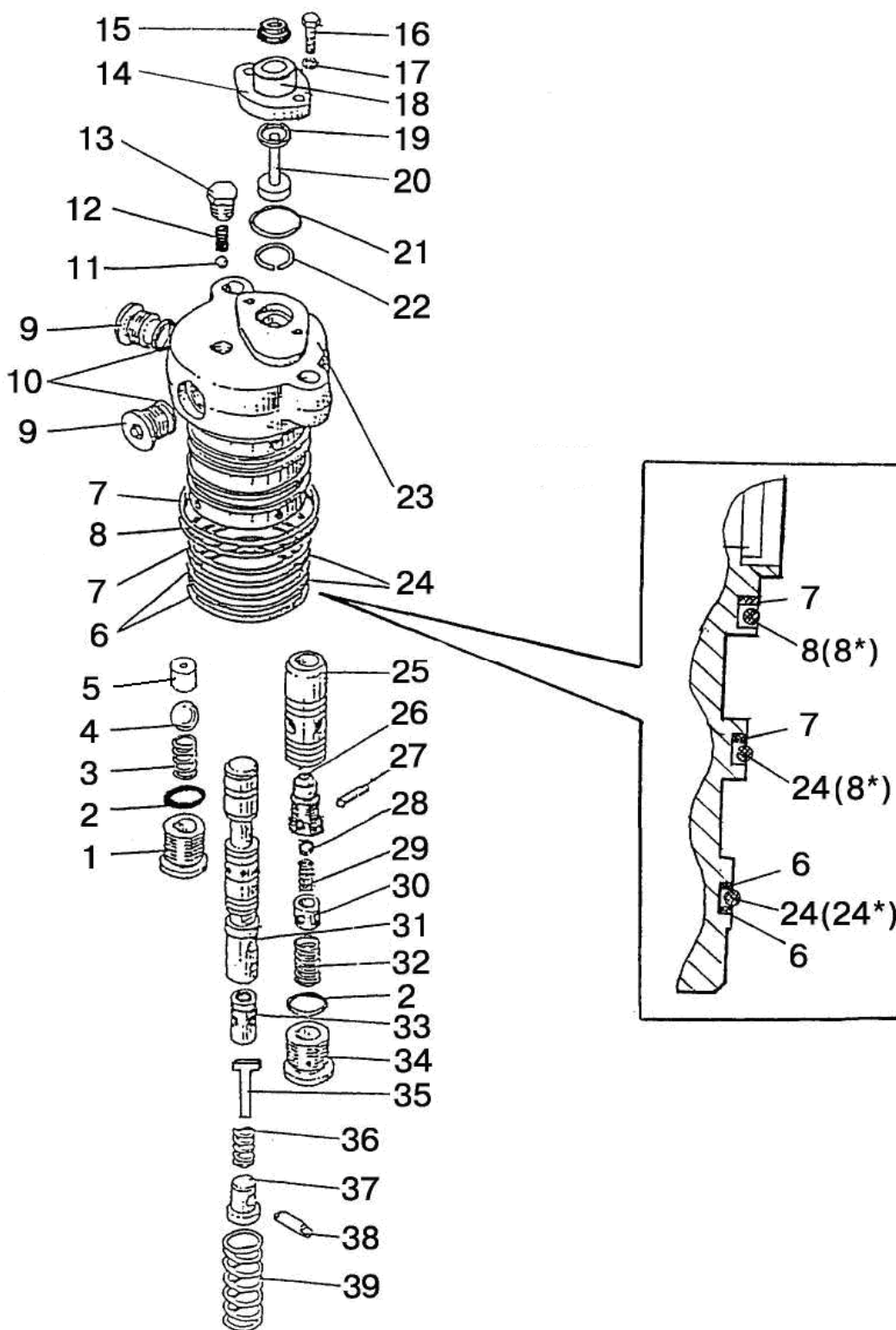


Fig. 46.14. Distributor of hydraulic lift

**Group 46. Remote-cylinder hydraulic system
Subgroup 4625. Distributor of hydraulic lift**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.14		820-4634010	1	Distributor
		820-4634020A	1	Valve(25-30)
	1	820-4634021	1	Plug
	2	017-020-19-2-6 or 17.00-2.00	2	Ring Ring "SIMRIT"
	3	A61-072	1	Spring
	4	14,288	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	1	Ring
	8*	65.00-2.50	2	Ring "SIMRIT"
	9	820-4634022	2	Plug
	10	013-016-19-2-6 or 13.00-2.00	2	Ring Ring "SIMRIT"
	11	6,35	1	Ball
	12	80-4614058	1	Spring
	13	КГ 1/8"	1	Plug
	14	820-4634013-Б	1	Cover
	15	2-10	1	Scraper
	16	M6x16	2	Bolt
	17	ШП 6	2	Washer
	18	820-4634039	1	Bushing
	19	010-014-25-2-2	1	Ring
	20	820-4634038	1	Tappet
	21	021-024-19-2-6 or 21.00-2.00	1	Ring Ring "SIMRIT"
	22	820-4634036	1	Locking ring
	23	820-4634011	1	Body
	24	064-068-25-2-6	2	Ring
	24*	63.00-2.50	1	Ring "SIMRIT"
	25	820-4634014	1	Valve
	26	820-4634018-Б	1	Seat
	27	2,3x14	1	Pin
	28	5,556	1	Ball
	29	P75-B3BP-082	1	Spring
	30	820-4634033	1	Stop
	31	820-4634012	1	Spool
	32	820-4634024	1	Spring
	33	820-4634026-Б	1	Valve
	34	820-4634019	1	Plug
	35	820-4634037	1	Stop
36	820-4634028	1	Spring	
37	820-4634029	1	Stop	
38	820-4634027	1	Pin	
39	820-4634016	1	Spring	

* Variant

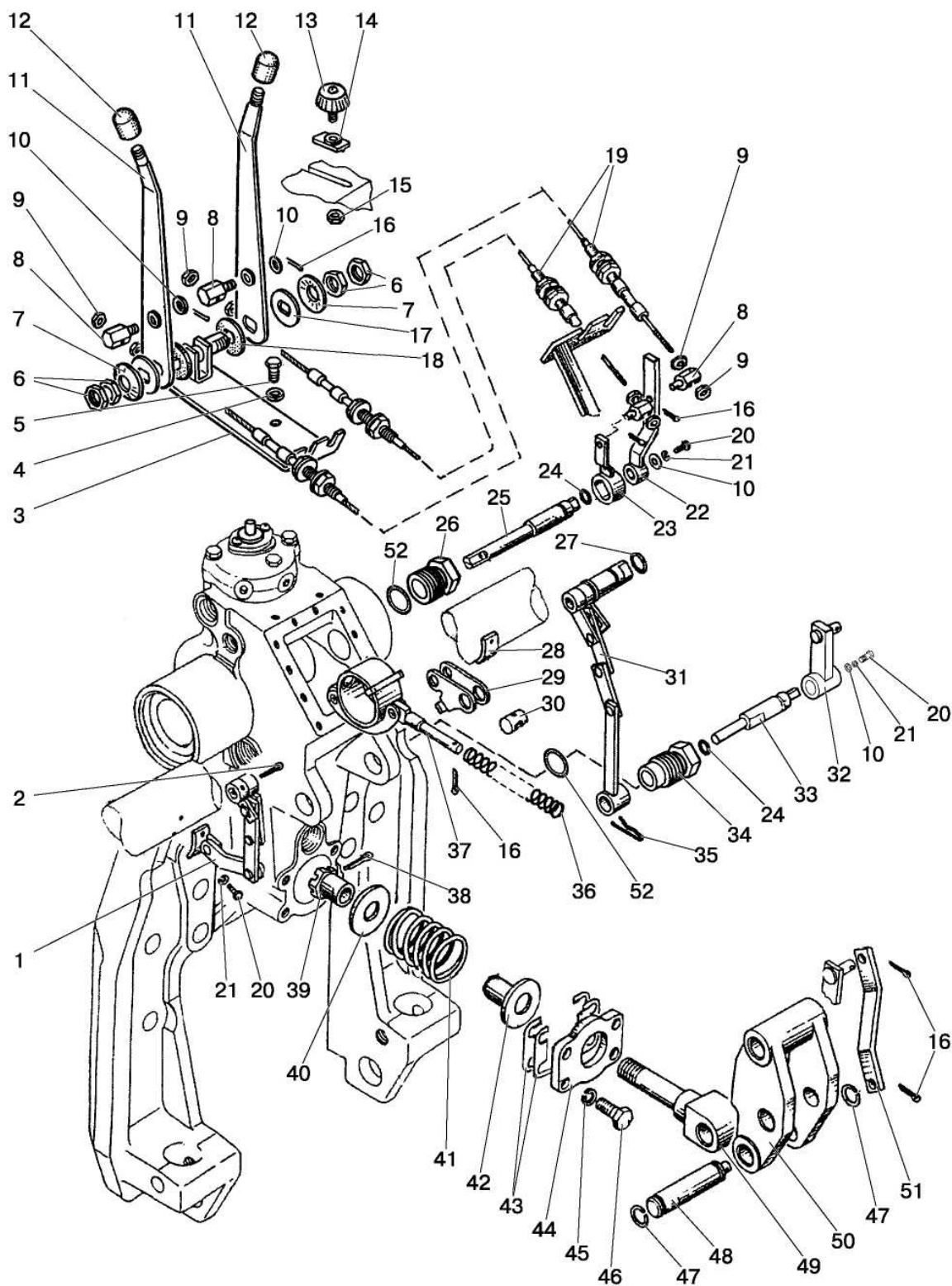


Fig. 46.15. Hydraulic lift. Hydraulic lift control.

**Group 46. Remote-cylinder hydraulic system
Subgroup 4635. Hydraulic lift. Hydraulic lift control**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.15		820-4635005	1	Hydraulic lift. Hydraulic lift control (1-52; Fig.46.17 pos.:1-37)
		1221-4635010	1	Hydraulic lift (1, 2, 10, 20-52; Fig.46.17 pos.: 1-37)
		820-4635020-A	1	Force sensor (38-42, 44, 49)
		820-4635060	1	Adder stage (16, 29, 30, 36, 37)
		820-4635090-Б	1	Bracket (3, 6, 7, 11, 17)
	1	820-4635025	1	Positional
	2	3,2x25	1	Split pin
	3	820-4635095-Б	1	Bracket
	4	ШП 8	4	Washer
	5	M8x20	4	Bolt
	6	M14x1,5	4	Nut
	7	80B-1108347	2	Beleville spring
	8	80B-1108317	4	Boss
	9	M6	8	Nut
	10	ШЧ 6	4	Washer
	11	820-4635100-Б	2	Lever
	12	A13.11.000	2	Handle
	13	80-4616070	1	Screw
	14	820-4635082	1	Stop
	15	M6	1	Nut
	16	3,2x18	7	Split pin
	17	80-1108028	2	Washer
	18	80-1108178	2	Frictional washer
	19	100.M4322.00900 or 23.588.1.1.2.00.01-01 or 772-L-TT-75-900	2	Cable
	20	M6x16	6	Bolt
	21	ШП 6	6	Washer
	22	820-4635080	1	Lever
	23	820-4635075	1	Lever
	24	011-015-25-2-4	2	Ring
	25	820-4635034	1	Shaft
	26	820-4635033-Б	1	Bushing
	27	019-023-25-2-4	1	Ring
	28	820-4635046	1	Clamp
	29	820-4635070	1	Lever
	30	820-4635069	1	Lock
	31	820-4635030	1	Power link
	32	820-4635015-Б	1	Lever
	33	820-4635016-Б	1	Shaft
	34	820-4635032-Б	1	Bushing
	35	820-4635049	1	Split pin
	36	820-4635063	1	Spring
	37	820-4635065	1	Bracket
	38	4x22	1	Split pin
39	820-4635024	1	Nut	
40	820-4635023	1	Washer	
41	820-4635022	1	Spring	
42	820-4635026-Б	1	Bushing	
43	820-4635044-Б	4	Gasket	

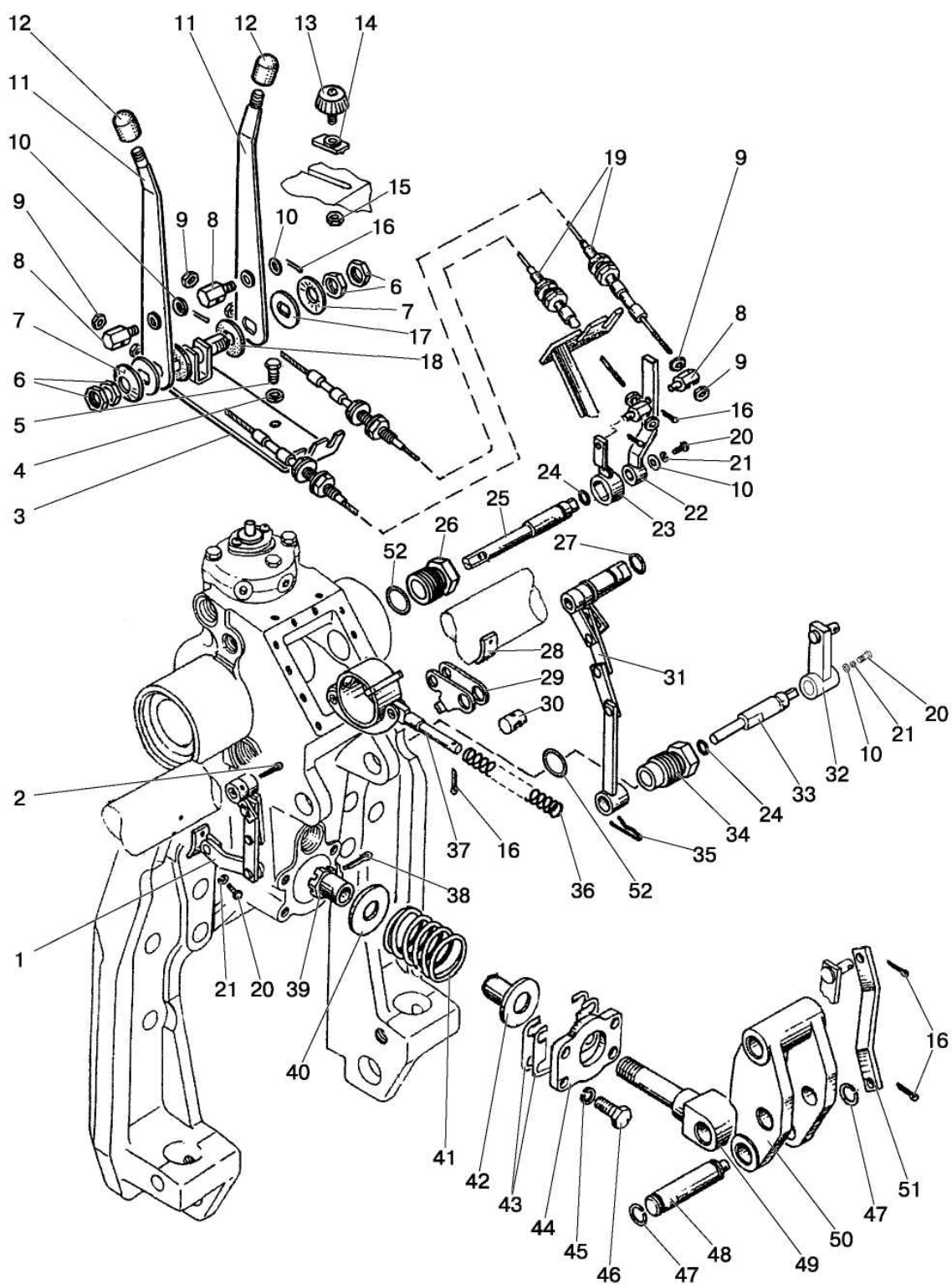


Fig. 46.15. Hydraulic lift. Hydraulic lift control

Group 46. Remote-cylinder hydraulic system
Subgroup 4635. Hydraulic lift. Hydraulic lift control

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.15	44	820-4635043-Б	1	Cover
	45	ШП 12	4	Washer
	46	M12x30	4	Bolt
	47	B22	2	Ring
	48	820-4635018	1	Pin
	49	820-4635021	1	Rod
	50	820-4635019	1	Clevis
	51	820-4635048	1	Rod
	52	027-032-30-1-4	2	Ring

**Group 46. Remote-cylinder hydraulic system
Subgroup 4635. Hydraulic lift**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
46.16	1	ШП 16	2	Washer
	2	M16x75	2	Bolt
	3	5x36	2	Split pin
	4	ШП 12	4	Washer
	5	M12x30	4	Bolt
	6	40-4605023-A2	2	Washer
	7	1221-4635013	1	Left lever
	8	1221-4635016	2	Pin
	9	1221-4635014	1	Bar
	10	079-085-36-2-2	2	Ring
	11	820-4635091	2	Sleeve
	12	BABSL 60-72-7	2	Collar
	13	820-4635115	2	Hose
	14	820-4635083	2	Union
	15	012-015-19-1-4	2	Ring
	16	1221-4635011	1	Body
	17	ШП 8	14	Washer
	18	M8x40	2	Bolt
	19	820-4634010	1	Distributor
	20	1221-4635012	1	Right lever
	21	820-4635085	1	Bracket
	22	M8x30	2	Bolt
	23	M8x20	10	Bolt
	24	820-4635125	1	Cover
	25	820-4635039	1	Gasket
	26	820-4635088	4	Bushing
	27	A61.05.005	1	Cotter key
	28	A61.05.004	1	Ring
	29	027-032-30-1-4	1	Ring
	30	80-4608021	1	Blind plug
	31	1321-2707068-01	4	Stud
	32	ШП 20	4	Washer
	33	M20	4	Nut
	34	A61.10.001	1	Pin
	35	КГ 3/8"	1	Plug
	36	820-4625010-Б or 820H-4625010-Б or 820E-4625010-Б	2	Cylinder
	37	820-4635084	2	Elbow

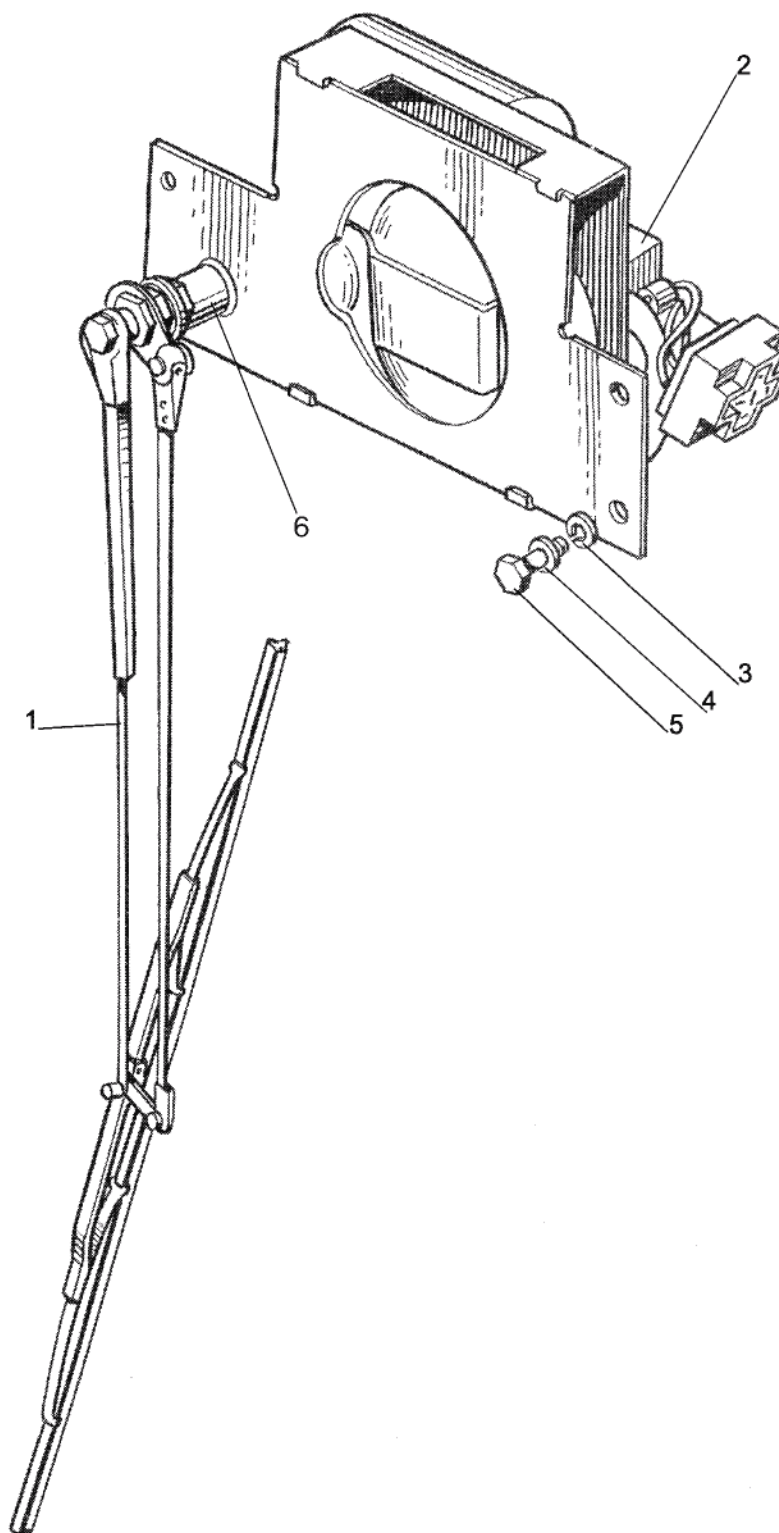


Fig. 52.1. Front windshield wiper

Group 52. Windscreen wipers
Subgroup 192.000. Front windshield wiper

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

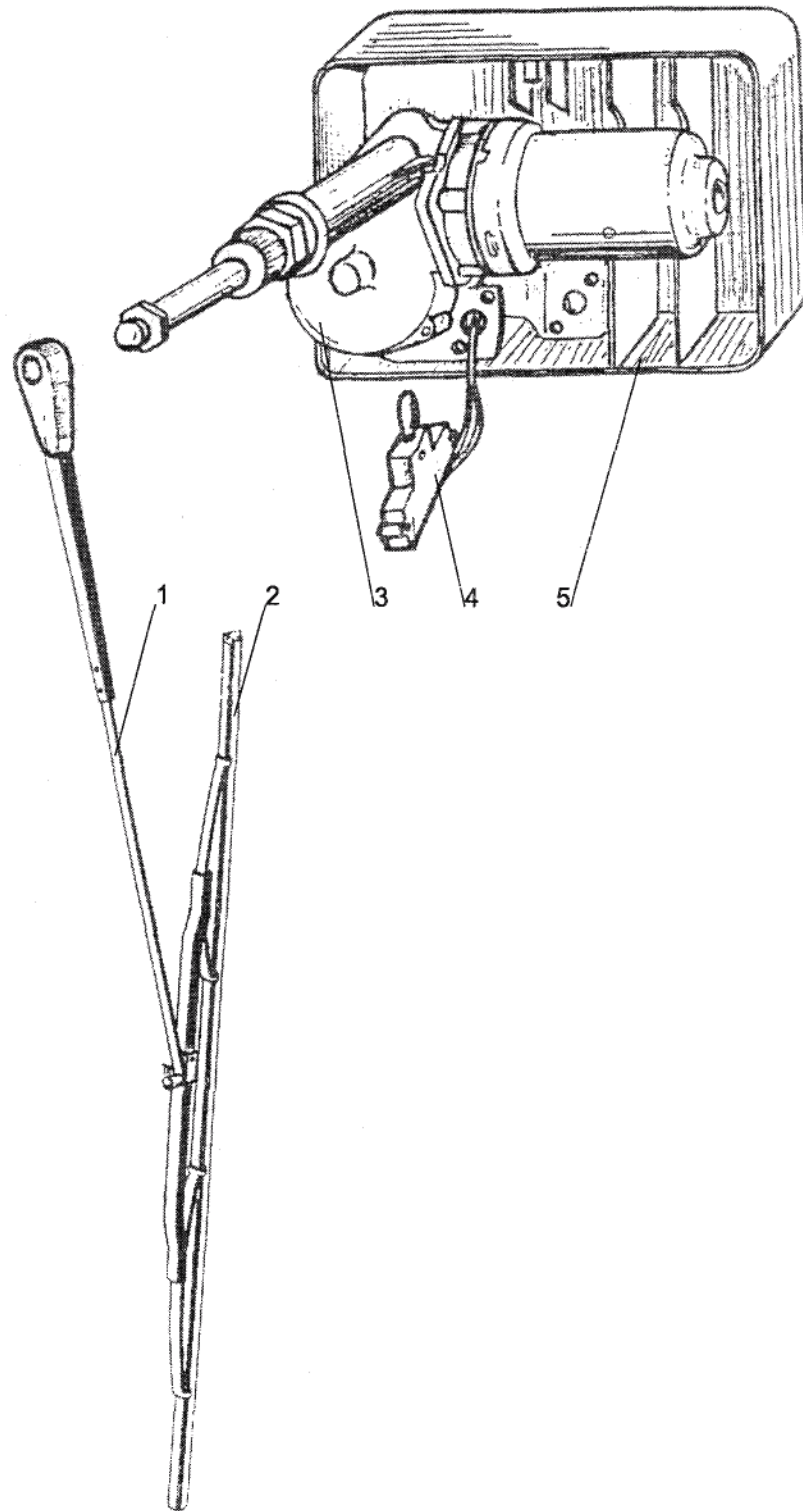


Fig. 52.2. Rear screen wiper

Group 52. Windscreen wipers
Subgroup 5205. Rear screen wiper

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
52.2		T240	1	Wiper (1-5)
	1	T240-5205300	1	Lever
	2	31.5205400-01	1	Blade
	3	T240-5205015	1	Reducer
	4	СЛ230-5205440	1	Switch
	5	T240-5205712	1	Case

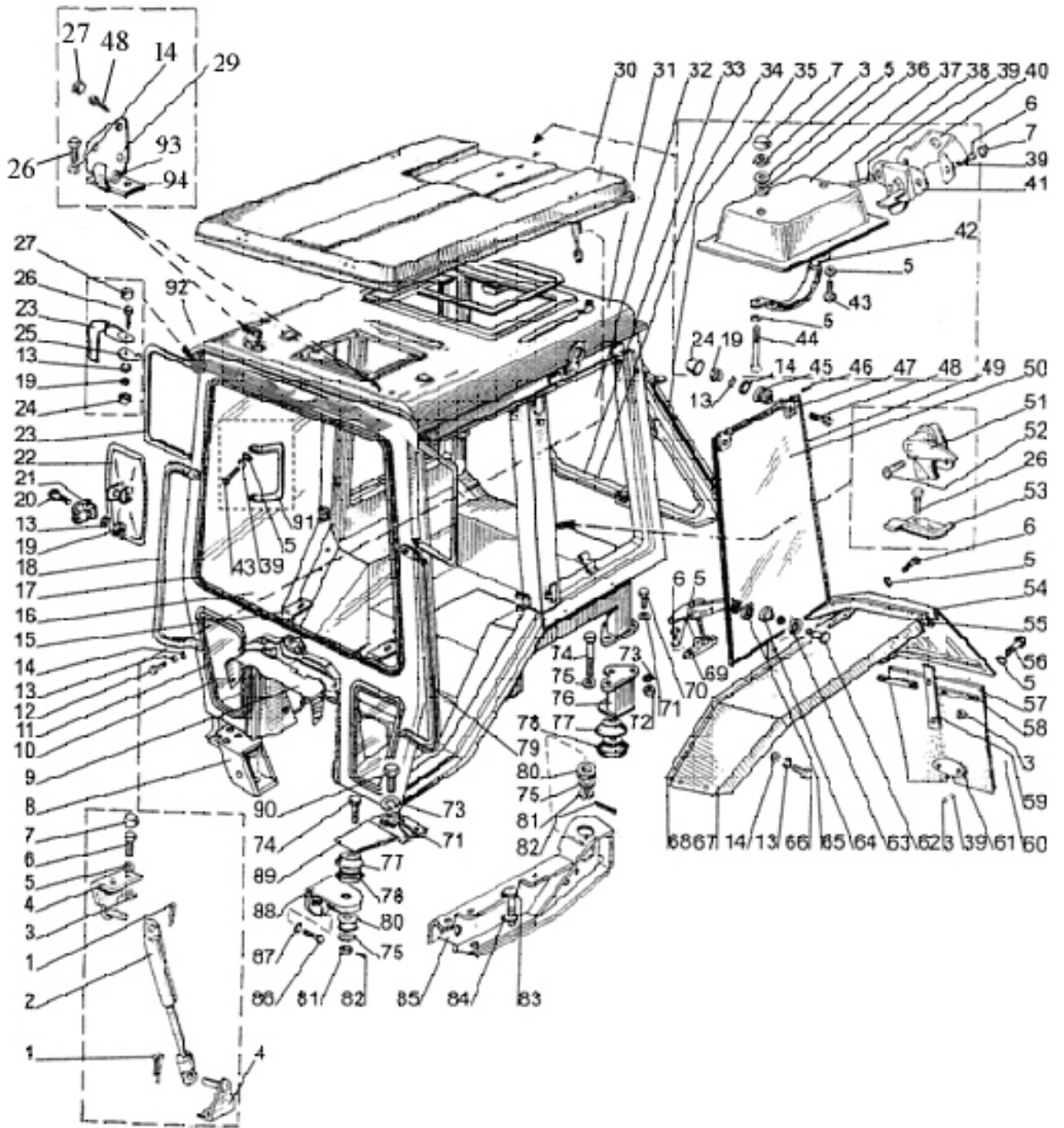


Fig. 67.1. Tractor cab

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
67.1		1221-6700010	1	Cab assembly
		80-6708210	1	Rear frame (32-35)
		80-6708900-01	2	Glass assembly (13, 14, 19, 24, 45, 47-50)
	1	3,2x18	10	Split pin
	2	21.054	4	Hydraulic lift
	3	M6	22	Nut
	4	80-6708225	6	Bracket
	5	ШЧ 6	24	Washer
	6	M6x16	32	Bolt
	7	A30.04.017	10	Cap
	8	80-6700031-Б-01	1	Right bracket
	9	85-6703056	1	Fitting piece
	10	80-6703012-A1	2	Glass
	11	A37.08.043 or A37.08.043-01	2	Weather strip
			1	Weather strip
	12	M8x25	4	Bolt
	13	ШП 8	36	Washer
	14	ШЧ 8	34	Washer
	15	80-3805030	2	Bracket
	16	80-67030111-A1	1	Glass
	17	80-6700018	1	Weather strip L=4200 mm
	18	80-6703105-01	1	Right handrail
	19	M8	8	Nut
	20	M8x40	2	Bolt
	21	A30.04.051	2	Clip
	22	80-8201055	2	Mirror
	23	80-8201106	2	Pipe
	24	A30.04.017-02	4	Cap
	25	80-8201107	4	Washer
	26	M8x16	8	Bolt
	27	A30.04.017-01	13	Cap
	28	A37.08.017	1	Weather strip
	29	80-6707010-Б	2	Hinge strap
	30	80П-6707025-Б or 80-6707025-Б4	1	Deck assembly
	31	1221-6700020	1	Cab (fabricated frame)
	32	80-6708211-A1	1	Glass
	33	80-6708215	1	Frame
	34	A37.08.043-05	1	Weather strip
	35	80-6700021-01*	1	Weather strip
	36	549-1305044	2	Gasket
	37	80-6707082	1	Facing
	38	M6x12	2	Screw
	39	ШП 6	14	Washer
	40	80-6707075	1	Bracket
41	A37.09.010	1	Catch	
42	80-6707080	1	Handrail	
43	M6x20	1	Screw	
44	M6x50	1	Screw	

* Substitution by 80-6700026-02 is allowed.

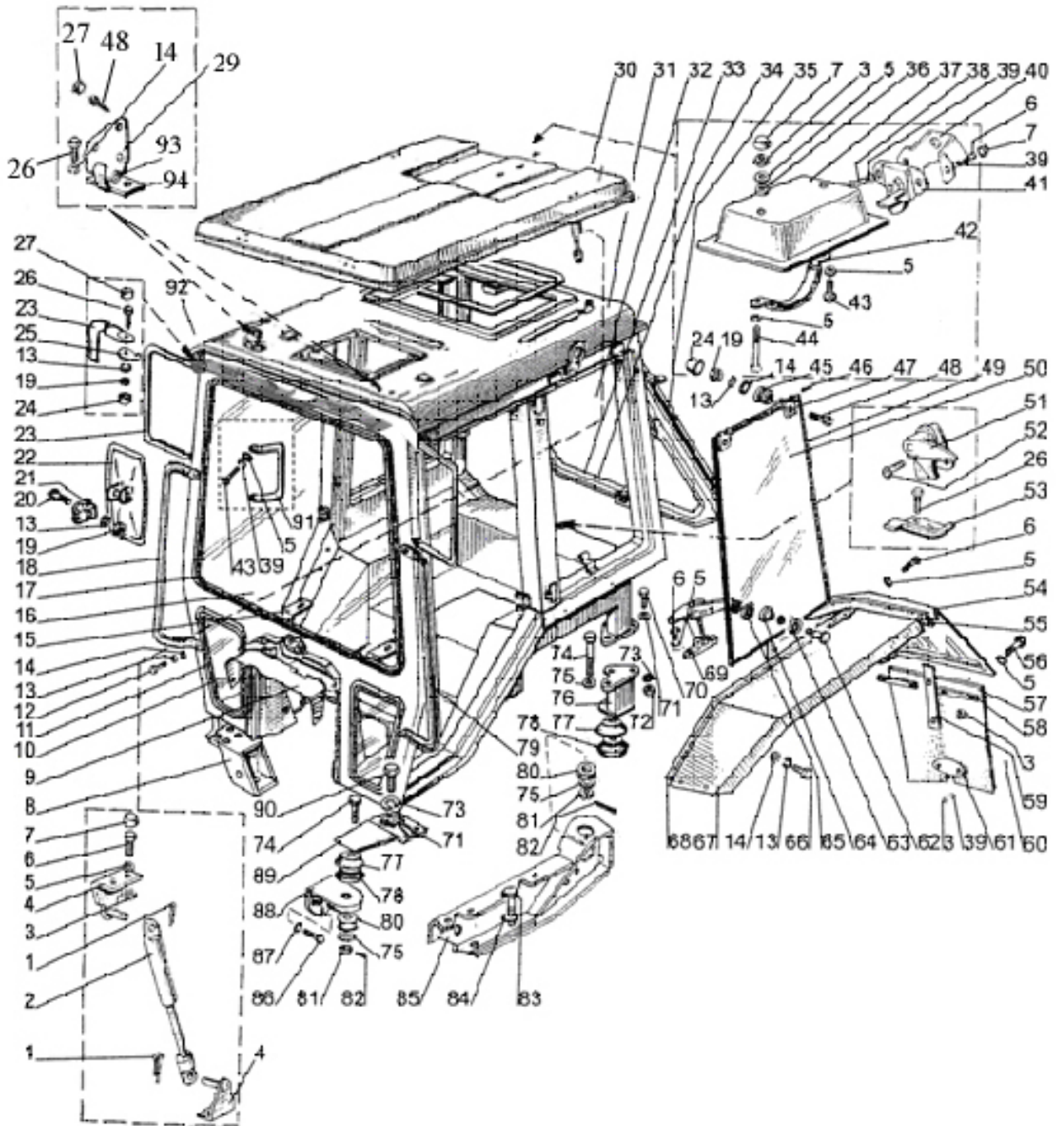


Fig. 67.1. Tractor cab

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
67.1	45	80-6708903	4	Bushing
	46	8x65	4	Pin
	47	80-6708902	4	Hinge
	48	M8x30	10	Bolt
	49	Φ-202	2	Weather strip
	50	1221-6708901-A1	2	Glass
	51	A37.05.025	1	Lock
	52	M6x25	2	Screw
	53	A37.05.021	1	Bracket
	54	80-8404020-Б	1	Left wing flap
		80-8404020-Б-01	1	Right wing flap
	55	80-8404014-A	2	Weather strip
	56	M6x25	10	Bolt
	57	85-8404040-A	2	Mudguard
	58	80-8404032	4	Plate
	59	80-8404031-Б	2	Spring
	60	M6x16	6	Screw
	61	80-8404034-A	2	Plate
	62	80-6708975	2	Screw
	63	80-6708904	2	Gasket
	64	A37.01.041	2	Bushing
	65	80-6708961	4	Washer
	66	M8x20	22	Bolt
	67	80-8404011-Б	1	Left fender
		80-8404011-Б-01	1	Right fender
	68	80-8404013-A	2	Weather strip
	69	80-6708970	2	Handle
	70	M12x25	6	Bolt
	71	ШЧ 12	6	Washer
	72	M12	6	Nut
	73	ШП 12	6	Washer
	74	80-6700029	4	Bolt
	75	ШП 16	12	Washer
	76	1221-6700035	1	Left support
		1221-6700035-01	1	Right support
	77	80-6700163	4	Cartridge
	78	80-6700160	4	Vibration isolator
	79	80-6703105	1	Left handrail
	80	130-5001364-B	4	Cushion
	81	M16	4	Nut
	82	4x36	4	Split pin
	83	M20x75	4	Bolt
	84	ШП 20	4	Washer
	85	1221-6702300	1	Right bracket
		1221-6702300-01	1	Left bracket
	86	M16x45	6	Bolt
	87	ШП 16	6	Washer
	88	85-6702068	1	Left bracket
		85-6702069	1	Right bracket
89	80-6700031-Б	1	Bracket	

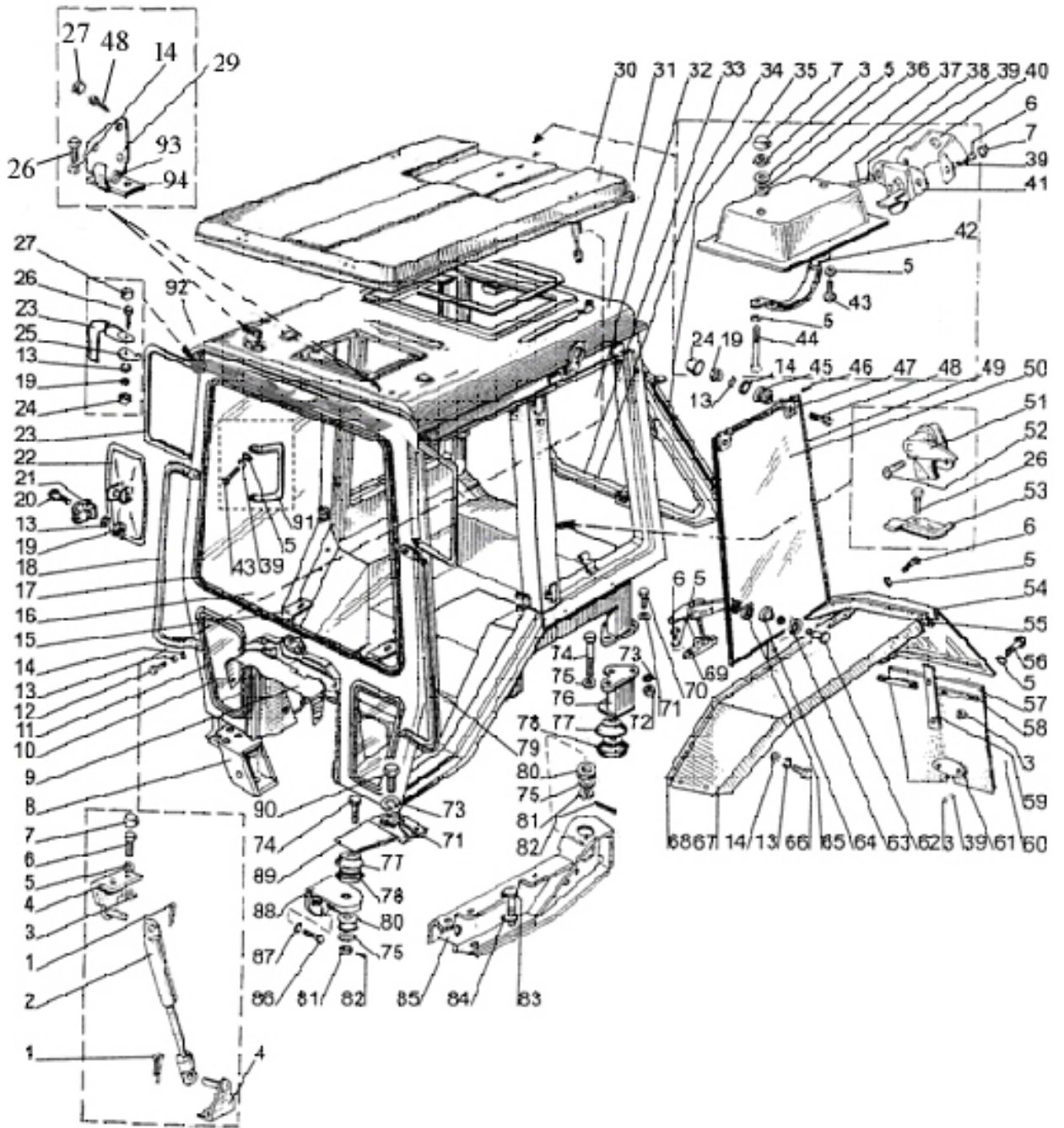


Fig. 67.1. Tractor cab

Group 67. Tractor cab
Subgroup 6700. Tractor cab

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
67.1	90	M12x35	8	Bolt
	91	80-6708209	2	Hanle
	92	1221-6707037-Б	1	Fitting piece
	93	70-6708189	2	Center pin
	94	80-6707013	2	Hinge

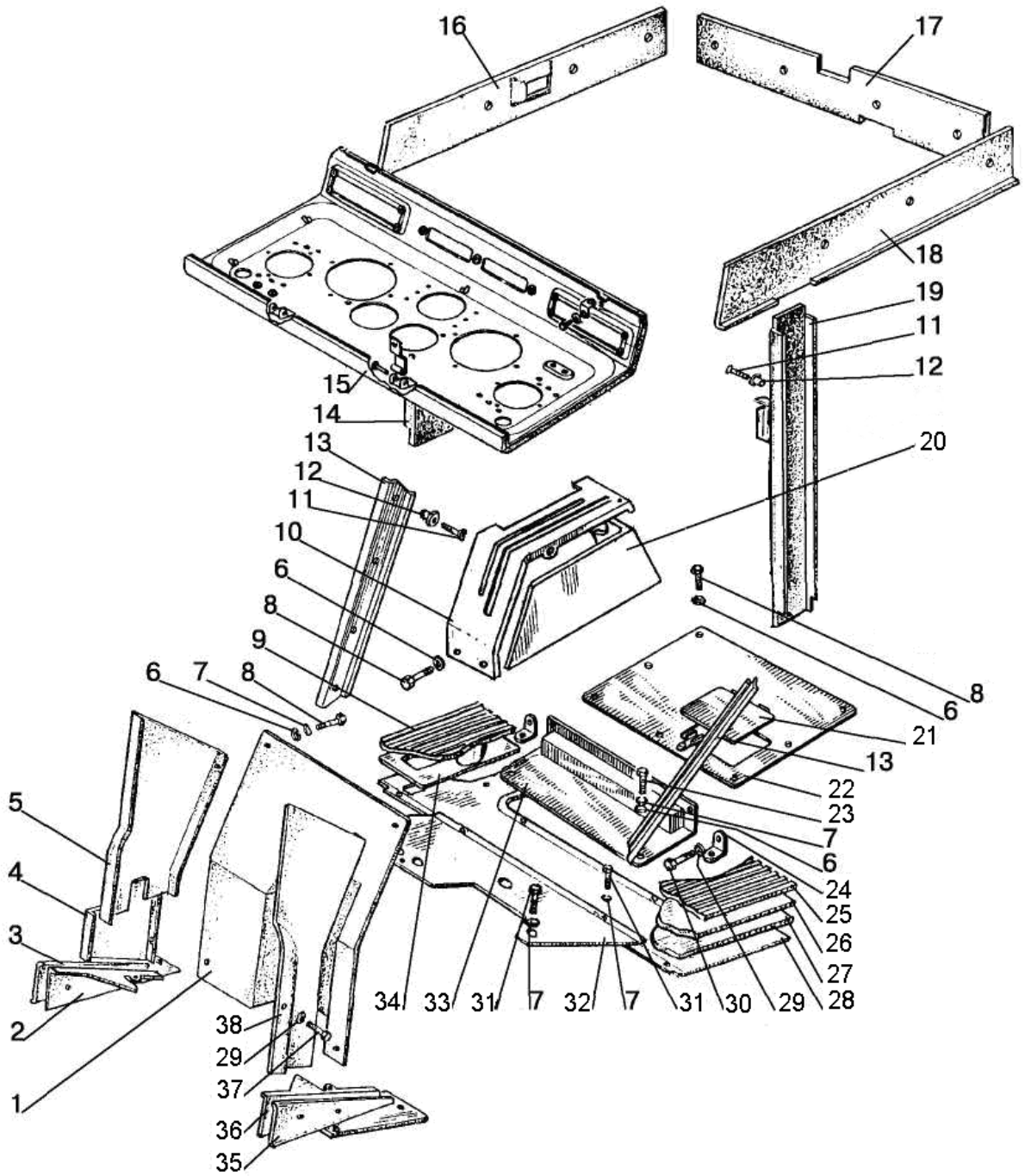


Fig. 67.2. Tractor cab

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
67.2	1	80-6700300	1	Panel
	2	80-6702330	1	Cover plate
	3	80-6702328-01	1	Side bar
	4	85-6700330	1	Panel
	5	85-6700340	1	Panel
	6	ШЧ 6	16	Washer
	7	ШП 6	20	Washer
	8	M6x25	14	Bolt
	9	80-6702333-Б2	1	Right floor mat
	10	1221-6700036	1	Plate cover
	11	1-4x25	28	Bolt screw
	12	A37.10.031	28	Boss
	13	80-6702111	2	Hold-down
	14	1221-6700060	1	Cover plate
	15	80-8100100	1	Panel
	16	1221-6700065	1	Cover plate
	17	80-6700205	1	Cover plate
	18	1221-6700050	1	Cover plate
	19	1221-6700060	1	Cover plate
	20	85-6700040-Б	1	Board
	21	80-6702190	1	Cover
	22	85-6702195	1	Cover
	23	M6x16	16	Bolt
	24	70-6702111	2	Elbow
	25	80-6702332	1	Left floor mat
	26	80-6702469-Б	1	Gasket
	27	80-6702468-Б	1	Gasket
	28	80-6702315-Б	1	Panel
	29	ШЧ 8	10	Washer
	30	M8x16	4	Bolt
	31	M6x16	16	Bolt
	32	80-6702310	1	Floor
	33	80-6702085	1	Cover
	34	85-6702201	1	Weather strip
	35	80-6702328	1	Side member
	36	80-6702320	1	Cover plate
	37	M8x40	2	Bolt
	38	80-6700320	1	Board

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

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

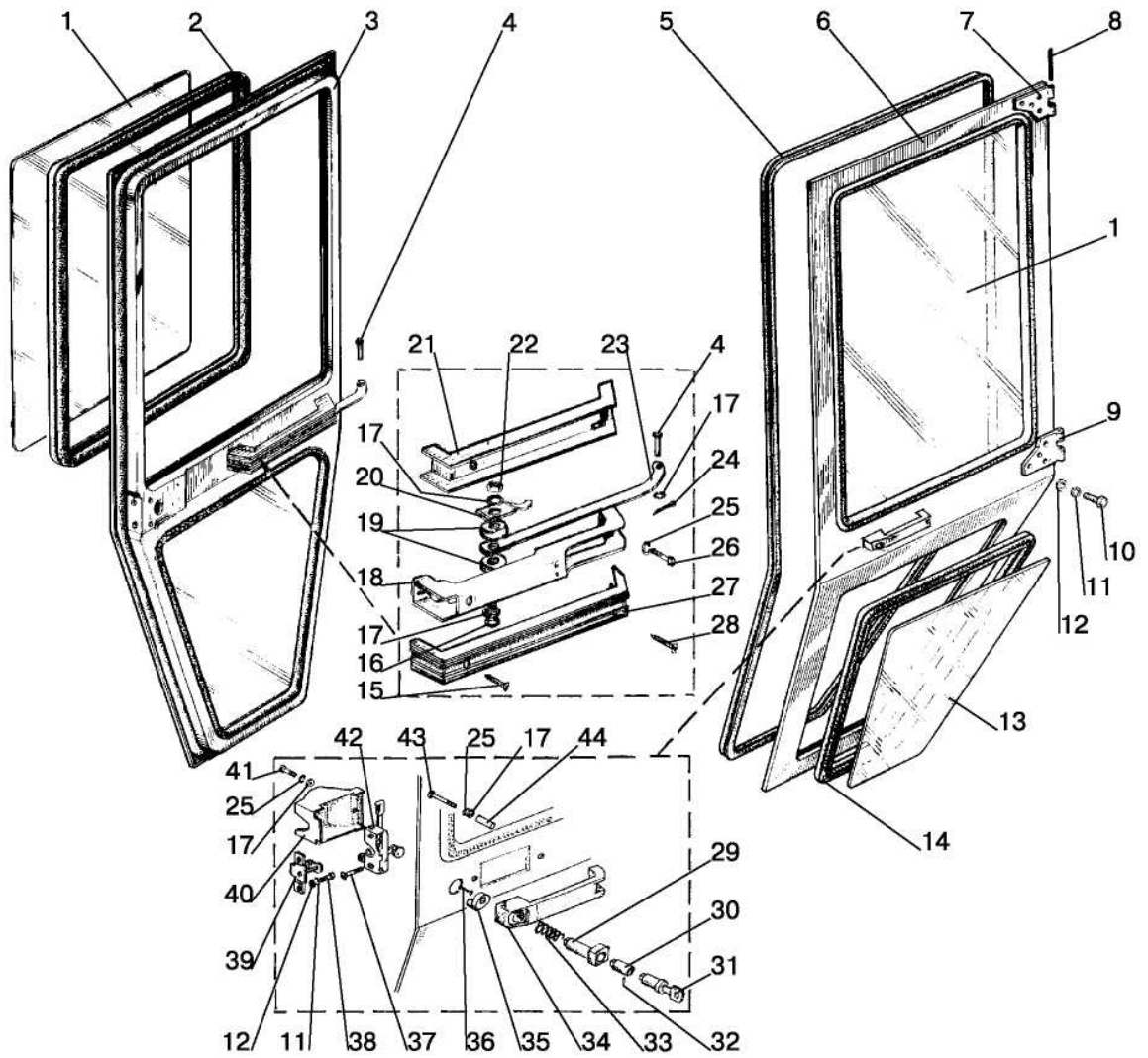


Fig. 67.4. Cab doors

**Group 67. Tractor cab
Subgroup 6708. Cab doors**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
67.4		80-6708010-Б	1	Left door (1, 2, 5-7, 9-14)
		80-6708010-Б-01	1	Right door (1-3, 5, 7, 9-14)
	1	80-6708013-A1	2	Glass
	2	A37.08.043-02	2	Weather strip L=2720mm
	3	80-6708020-Б-01	1	Door
	4	8x30	2	Pin
	5	80-6700021	2	Profile
	6	80-6708020-Б	1	Door
	7	A37.03.022-Б	2	Upper hinge
	8	A37.03.012	4	Center pin
	9	A37.03.022-Б-01	2	Lower hinge
	10	M8x25	12	Bolt
	11	ШП 8	12	Washer
	12	ШЧ 8	12	Washer
	13	80-6708014-A1	2	Glass
	14	A37.08.043-03	2	Weather strip
	15	1-4x40	2	Bolt screw
	16	M6x35	2	Bolt
	17	ШЧ 6	6	Washer
	18	80-6708610	2	Handrail
	19	80-6708619	4	Buffer
	20	80-6708618	2	Spring
	21	80-6708602	2	Cover plate
	22	M6	2	Nut
	23	80-6708616 or 80-6708616-01*	2	Lever
	24	3,2x18	2	Split pin
	25	ШП 6	6	Washer
	26	M6x16	2	Bolt
	27	80-6708603	2	Cover plate
	28	1-4x25	2	Bolt screw
	29	80-6105301	2	Button
	30	80-6105304	2	Bushing
	31	12.92.01.00.00-A	2	Cylinder mechanism
	32	2x12	2	Pin
	33	80-6105302	2	Spring
	34	80-6105305	2	Handle
	35	80-6105303	2	Tappet
	36	1-4x16	2	Bolt screw
	37	BM8x25	4	Screw
	38	M8x16	4	Bolt
	39	80-6105170	1	Left catch
		80-6105170-01	1	Right catch
	40	80-6708812	1	Left cover
		80-6708812-01	1	Right cover
41	M6x16	2	Screw	
42	80-6105050	1	Left lock	
	80-6105050-01	1	Right lock	
43	M6x45	2	Screw	
44	80-6708813	2	Bushing	

* For the tractor BELARUS-1221.3

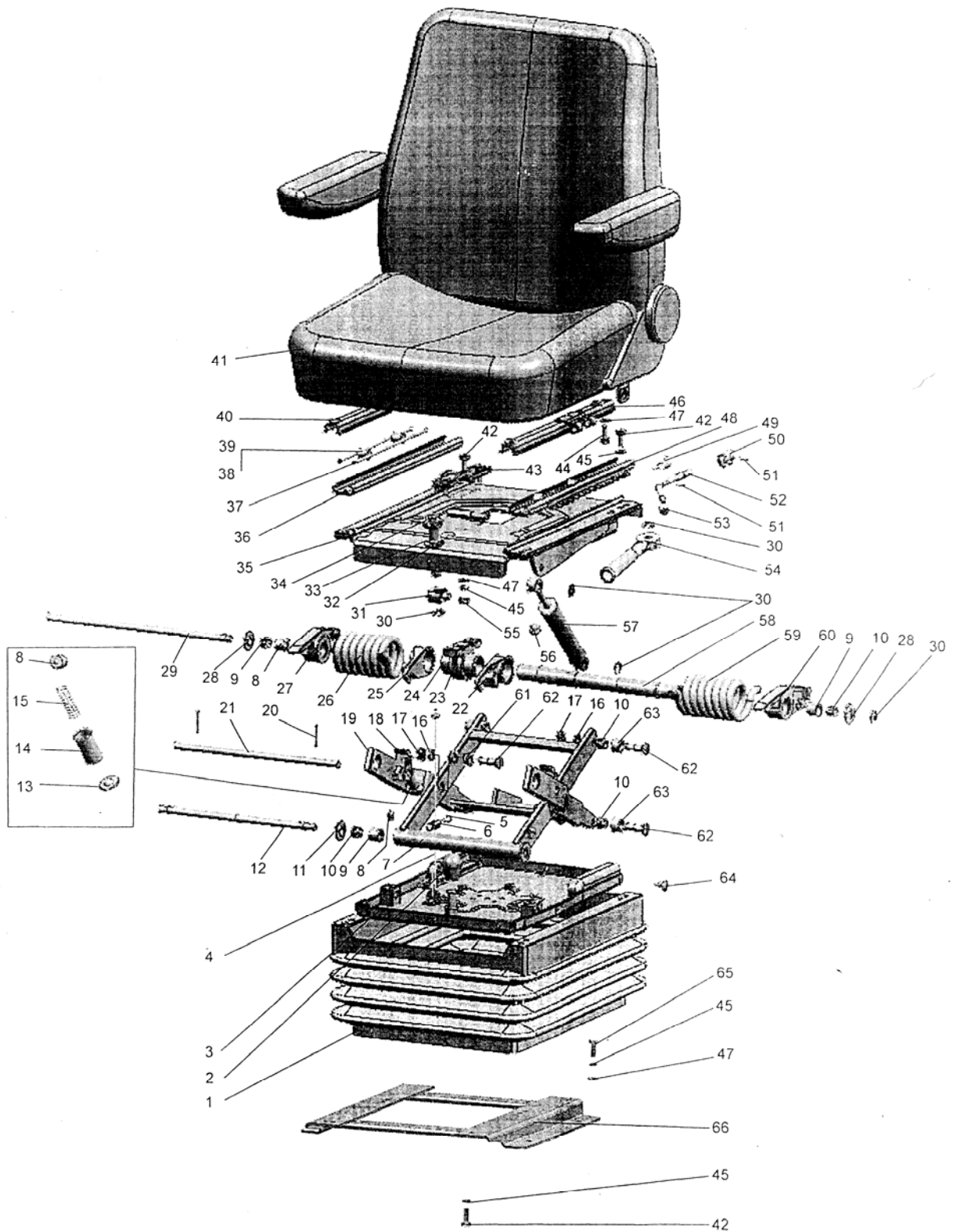


Fig. 68.1 Operator's seat

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

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

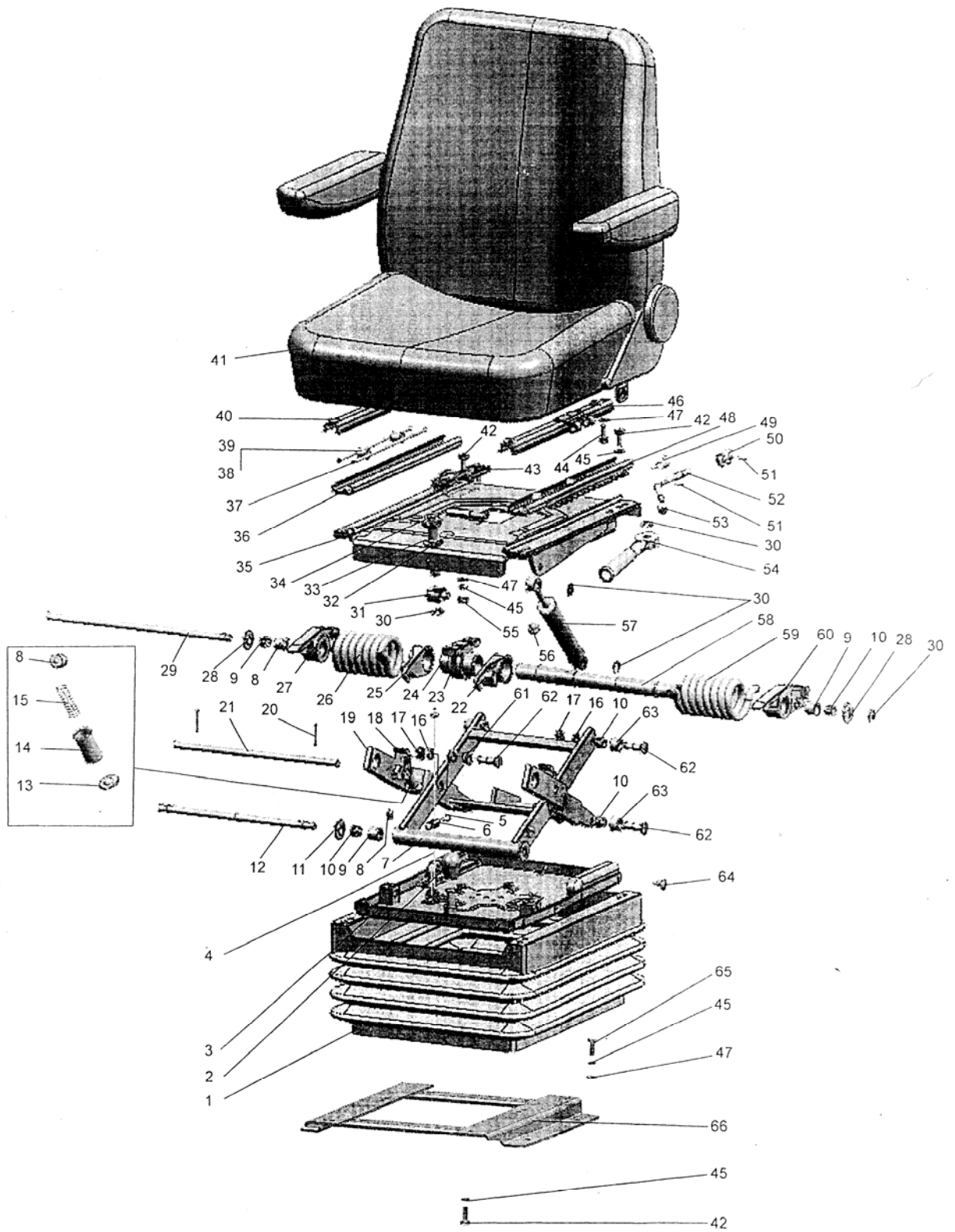


Fig. 68.1 Operator's seat

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

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

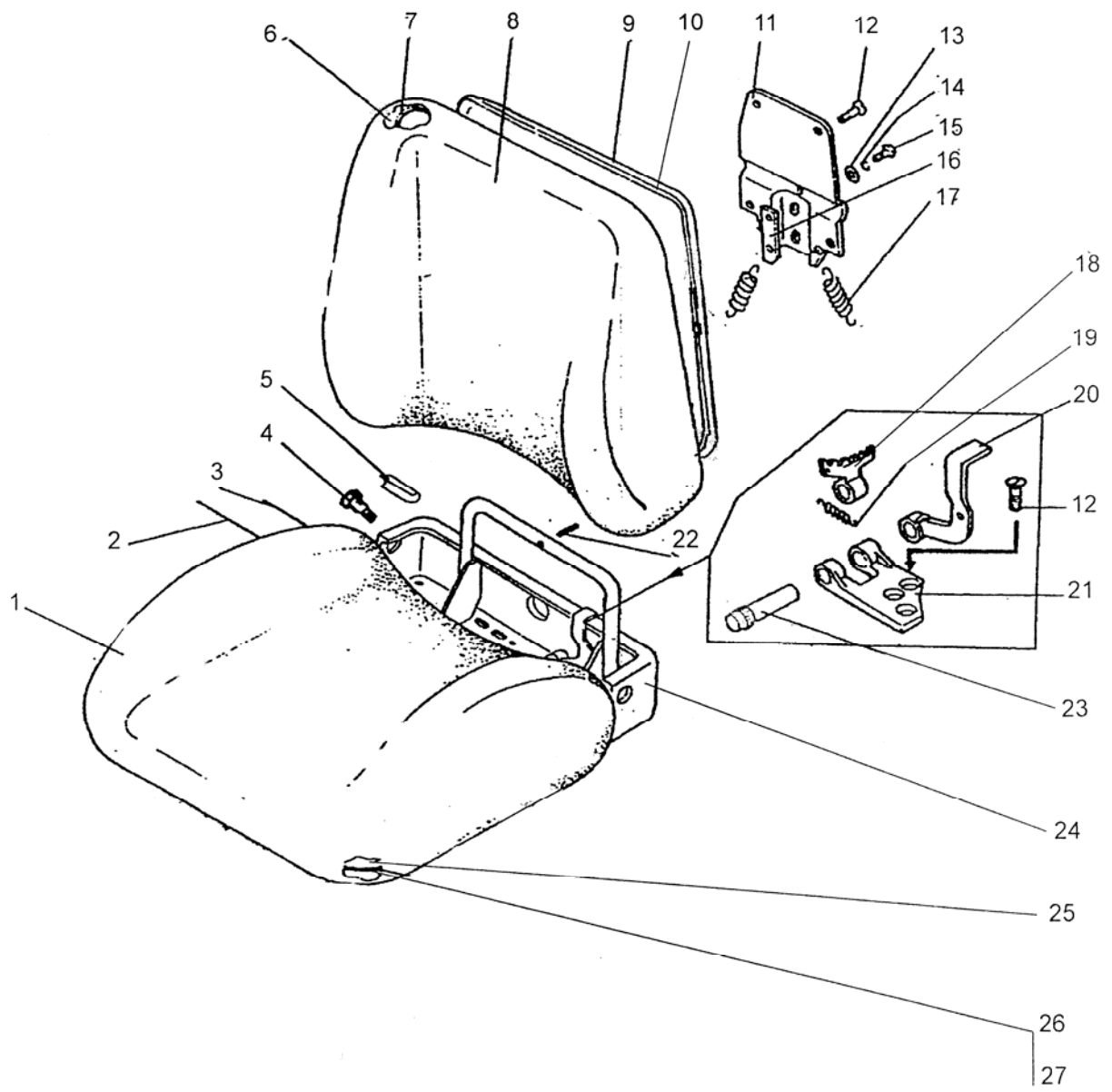


Fig. 68.2 Operator's seat

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

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

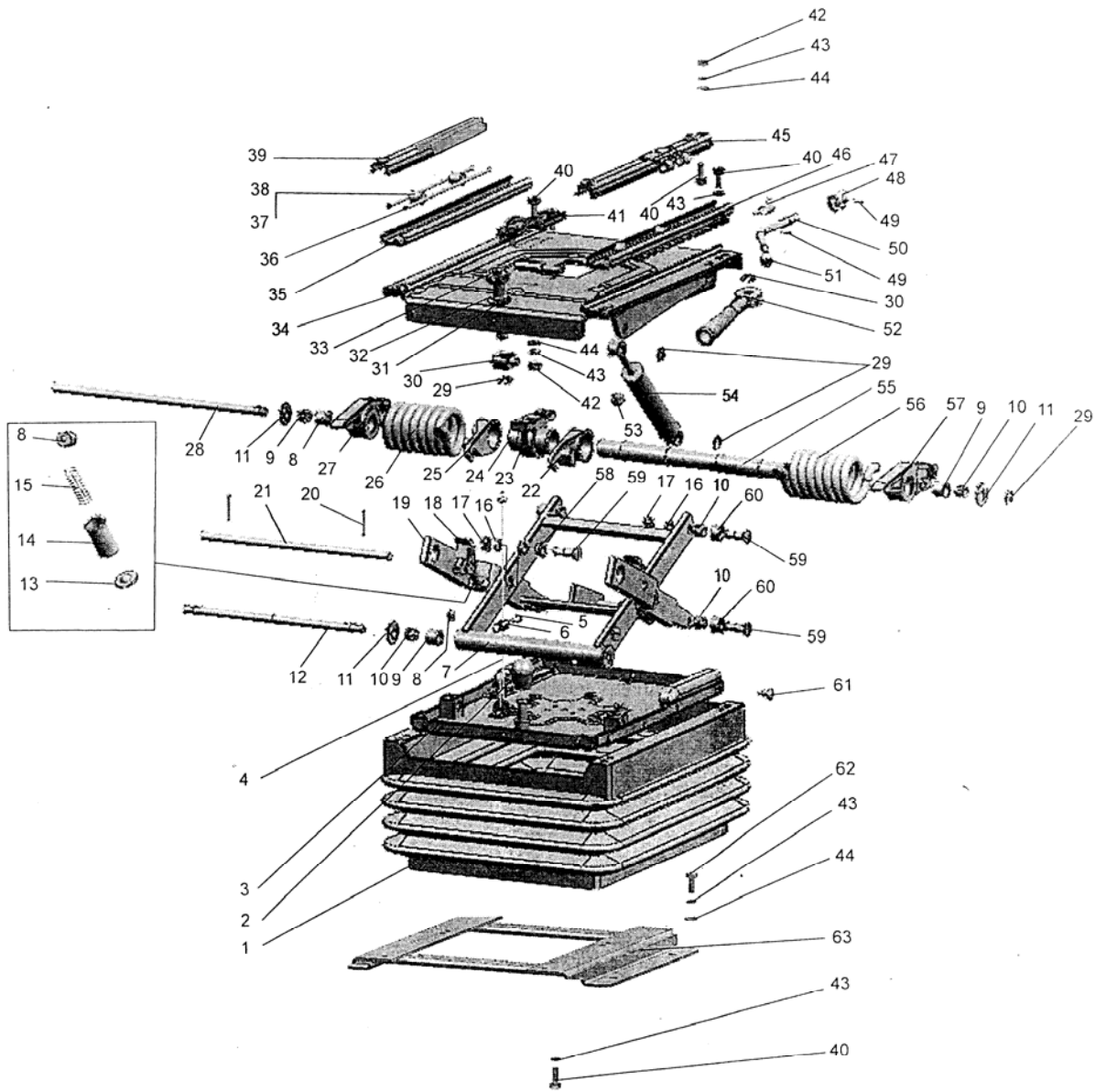


Fig. 68.3 Seat suspension

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

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

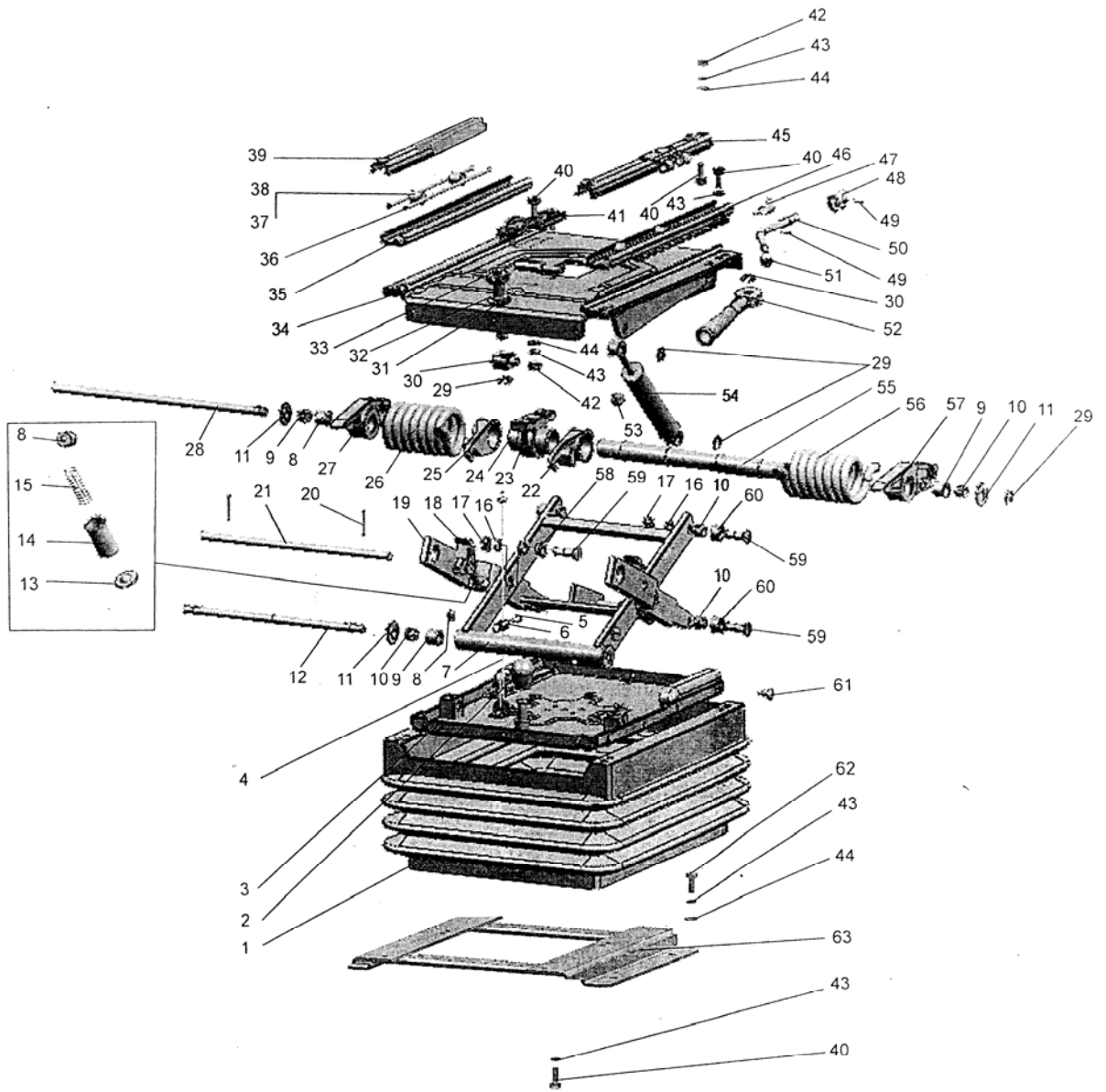


Fig. 68.3 Seat suspension

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

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

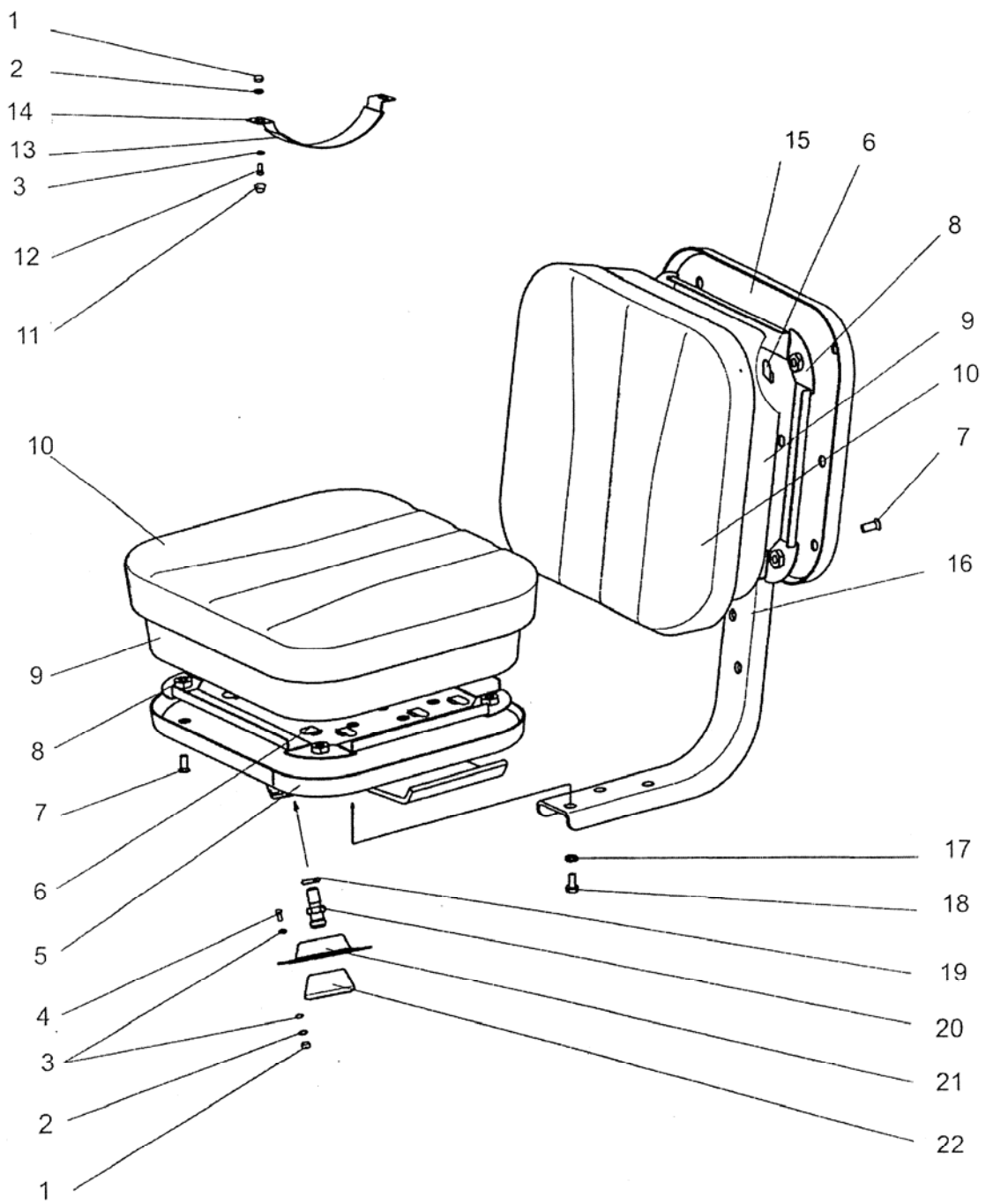


Fig. 68.4 Additional seat

Group 68. Operator's seat
Subgroup 6801. Additional seat

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

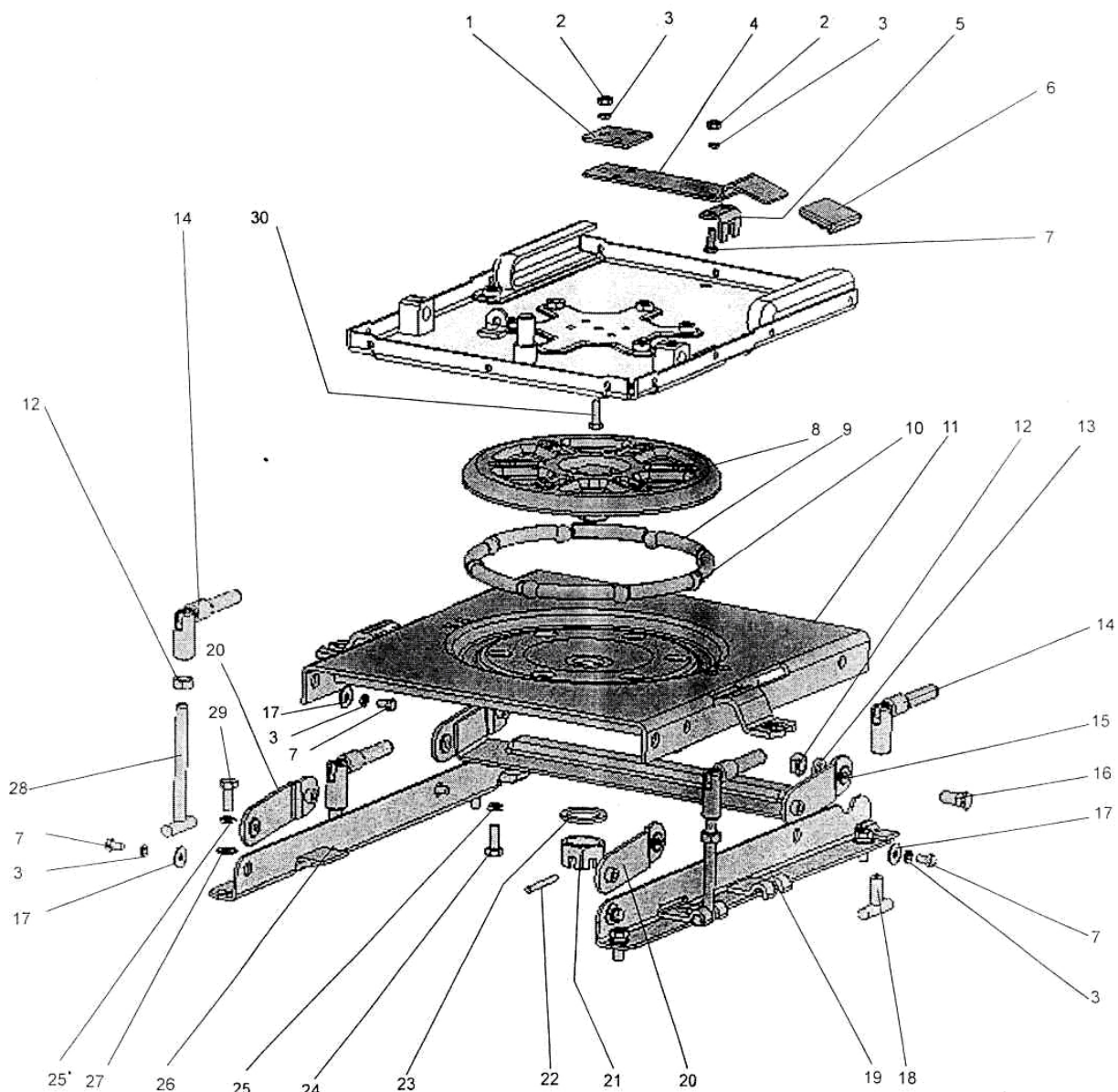


Fig. 68.5 Reverse mechanism 80B-6807000
 (For tractors BELARUS -1221B/1221B.2/1221B.3)

Group 68. Operator's seat
Subgroup 6807. Reverse mechanism 80B-6807000

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
68.5		80B-6807000	1	Reverse mechanism
	1	80B-6804014	1	Cover plate
	2	M6	5	Nut
	3	ШП6	11	Washer
	4	80B-6807009-Б	1	Lever
	5	1522-6807101	1	Stopper
	6	80B-6804066	1	Cover plate
	7	M6x14	8	Bolt
	8	80B-6807070	1	Disk
	9	80-1716041	8	Spring
	10	15.081	8	Ball
	11	2522-6807020-01	1	Panel
	12	M10	4	Nut
	13	ШП10	2	Washer
	14	80B-6807040	4	Clamp
	15	80B-6807030	1	Connecting rod
	16	2522-6807001	2	Bolt
	17	ШЧ6	6	Washer
	18	80B-6807050	2	Screw
	19	80B-6807010	1	Bracket
	20	80B-6807060	2	Connecting rod
	21	A04.02.020	1	Nut
	22	5x45	1	Split pin
	23	ШЧ27	1	Washer
	24	M8x20	4	Bolt
	25	ШП8	9	Washer
	26	80B-6807010-01	1	Bracket
	27	ШЧ8	4	Washer
	28	80B-6807050-01	2	Screw
	29	M8x30	4	Bolt
30	M6x20	3	Bolt	

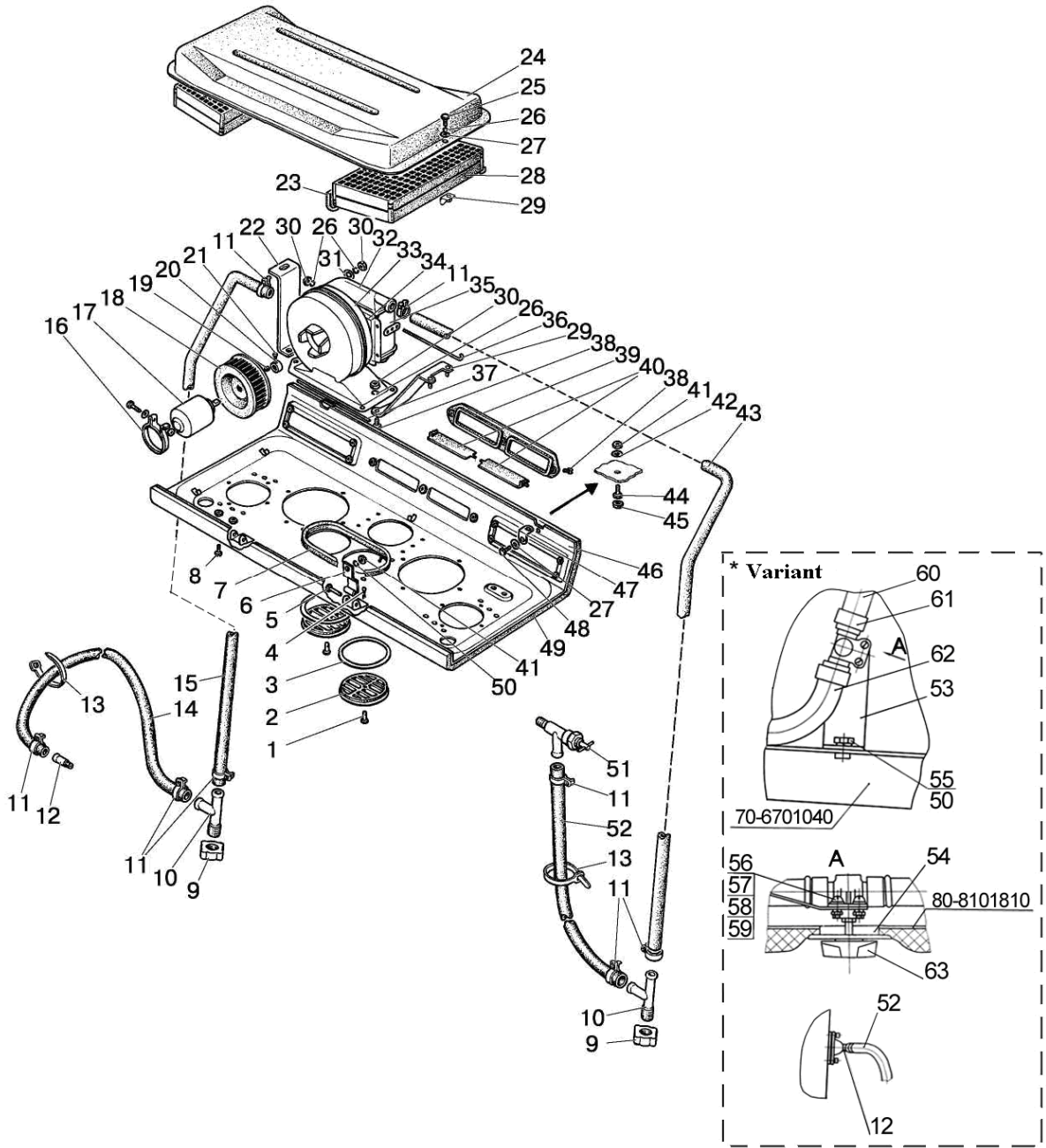


Fig. 81.1. Heater installation

**Group 81. Heater
Subgroup 8101. Heater installation**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
81.1		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	2	Pin OCT 37.001.163-75
	2	150.95.301	2	Air distributor
	3	80-8100013	2	Cover plate
	4	2x12.019	2	Split pin ГOCT 397-79
	5	50-8400031	2	Axle
	6	80-8100048	2	Hinge
	7	80-8101714-07	1	Weather strip
	8	2x12.019	2	Split pin ГOCT 397-79
	9	80-8100052	2	Plug
	10	80-8100051	2	T-piece
	11	XC-23	8	Clip
	12	80-8100023	1	Union
	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	Clip
	17	9742.3730	1	Electric motor
	18	80-8104034	1	Rotor
	19	M4-6H.6.019	1	Nut ГOCT 5927-70
	20	80-8104039	1	Ring
	21	B.M4-6gx10.58.019	1	Screw ГOCT 17473-80
	22	80-8101721	1	Tension member
	23	80-8101714-04	2	Seal
	24	80-8101760	1	Cover
	25	M6-6gx20.88.35.019	2	Bolt ГOCT 7798-70
	26	6T	11	Washer OCT 37.001.115-75
	27	C 6.01.019	4	Washer ГOCT 6958-78
	28	80-8104070	2	Filter
	29	80-8101820	1	Suspension
	30	M6-6H.6.019	10	Nut ГOCT 5915-70
	31	C 6.01.019	3	Washer ГOCT 11371-78
	32	70Y-8101070-A or	1	Heat exchanger
		PO-8101070 or	1	Heat exchanger
		41.035-1013010 or	1	Heat exchanger
		1216-8101060	1	Heat exchanger
	33	80-8101730-A	1	Case
	34	ПP32-06	2	Seal
	35	80-8101800	1	Box
	36	80-3703046-A	1	Stud
	37	80-8100014	1	Rod
	38	B.M6-6gx20.58.019	6	Screw ГOCT 17474-80
	39	80-8100011-Б	1	Cover
	40	80-8100012	2	Screen
41	M8-6H.6.019	4	Nut ГOCT 5915-70	
42	C 8.01.019	2	Washer ГOCT 6958-78	
43	80-8102015	1	Hose L=2230 mm	
44	M8-6gx35.88.35.019	2	Bolt ГOCT 7796-70	
45	A30.04.017-01	2	Cap	
	46	80-8100100	1	Panel

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

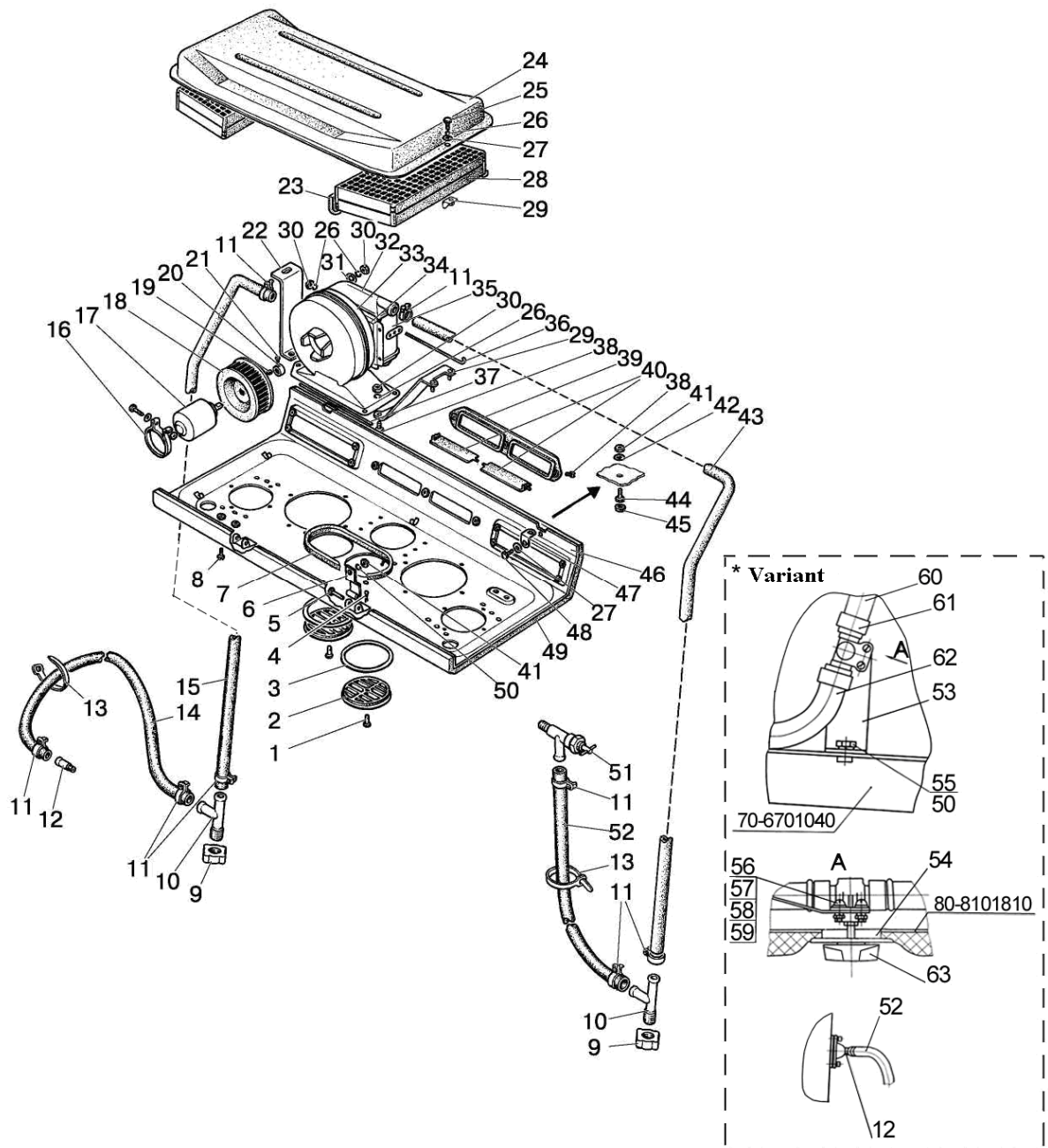


Fig. 81.1. Heater installation

Group 81. Heater
Subgroup 8101. Heater installation

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
81.1	47	70-6702111	2	Elbow
	48	M6-6gx16.88.35.019	2	Bolt ГOCT 7798-70
	49	80-8101713	1	Facing
	50	8T	2	Washer OCT 37.001.115-75
	51	BC-11	1	Hook
	52	80-8102015-03	1	Hose L=450 mm

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

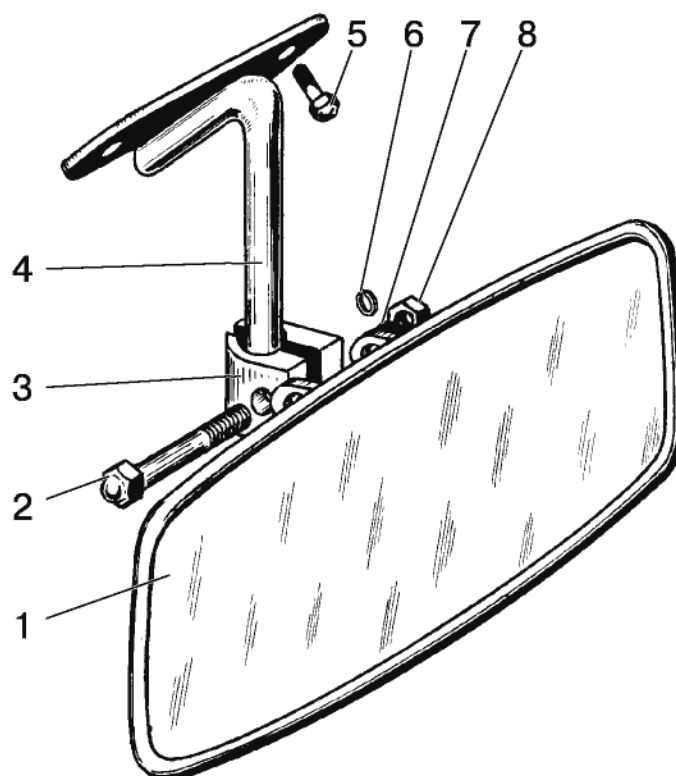


Fig. 82.1. Inner mirror

Group 82. Cab accessories
Subgroup 8201. Inner mirror

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
82.1		80-8201090	1	Inner mirror installation (1-7)
	1	80-8201035	1	Inner mirror
	2	M8x25	1	Bolt
	3	A30.04.071	1	Clip
	4	80П-8201025	1	Bracket
	5	M6x12	2	Screw
	6	ШП 8	1	Washer
	7	ШЧ 8	1	Washer
8	M8	1	Nut	

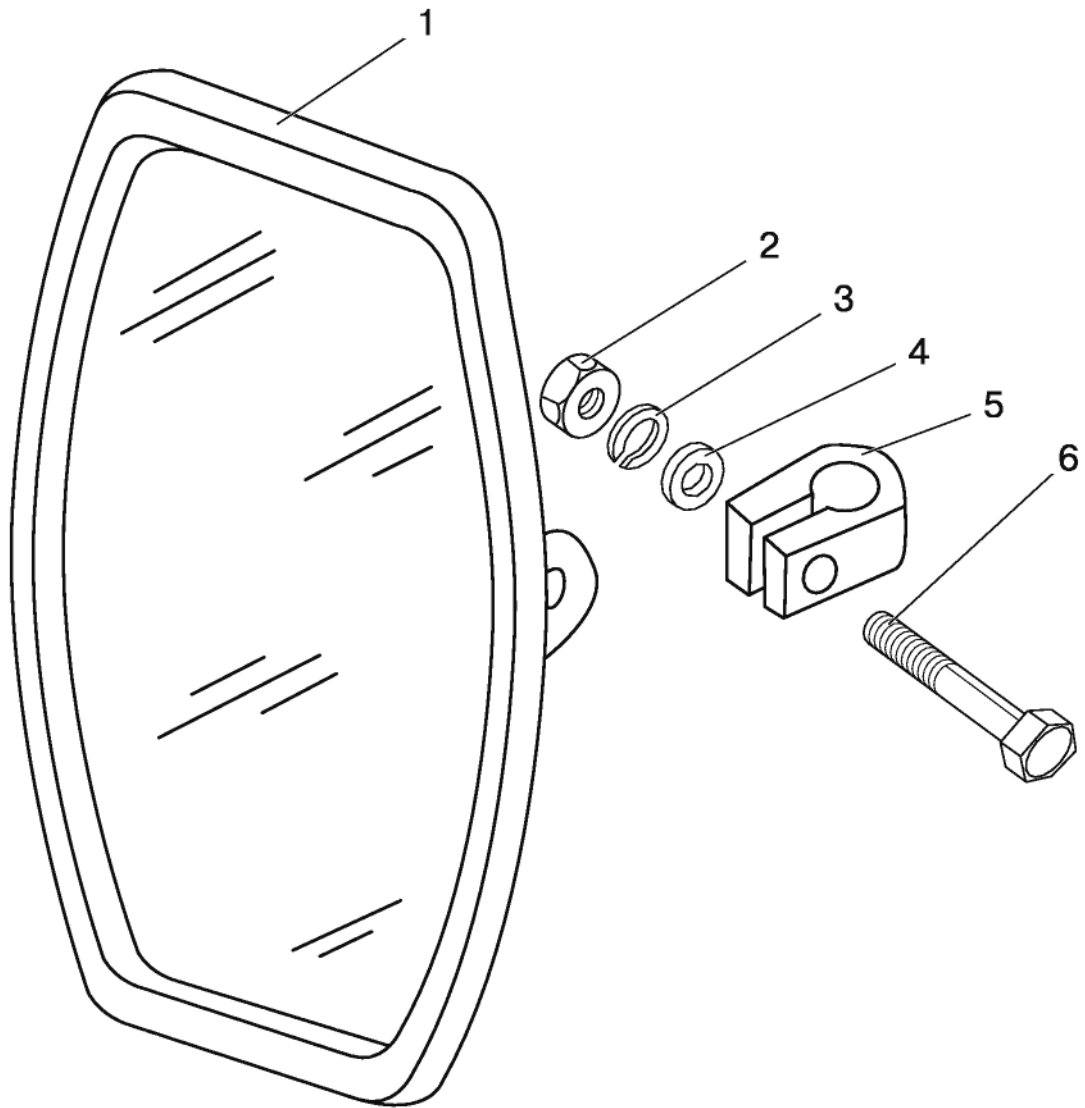


Fig. 82.2. Outside mirror

Group 82. Cab accessories
Subgroup 8201. Outside mirror

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
82.2	1	80-8201055	2	Outside mirror
	2	M8	2	Nut
	3	ШП 8	2	Washer
	4	ШЧ 8	2	Washer
	5	A30.04.051	2	Clip
	6	M8x40	2	Bolt

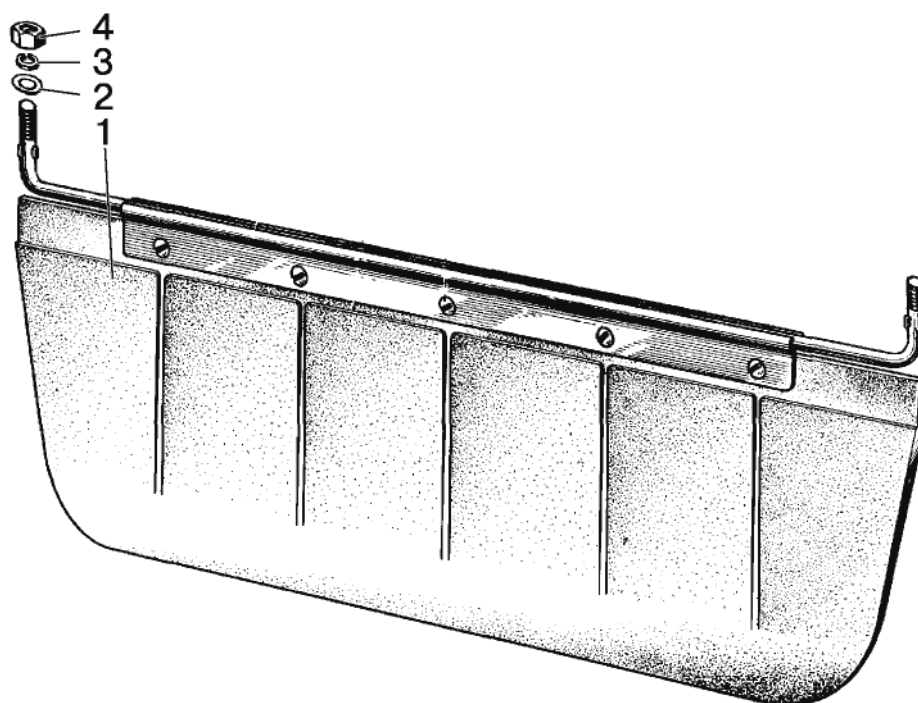


Fig. 82.3. Sun visor

Group 82. Cab accessories
Subgroup 8204. Sun visor

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

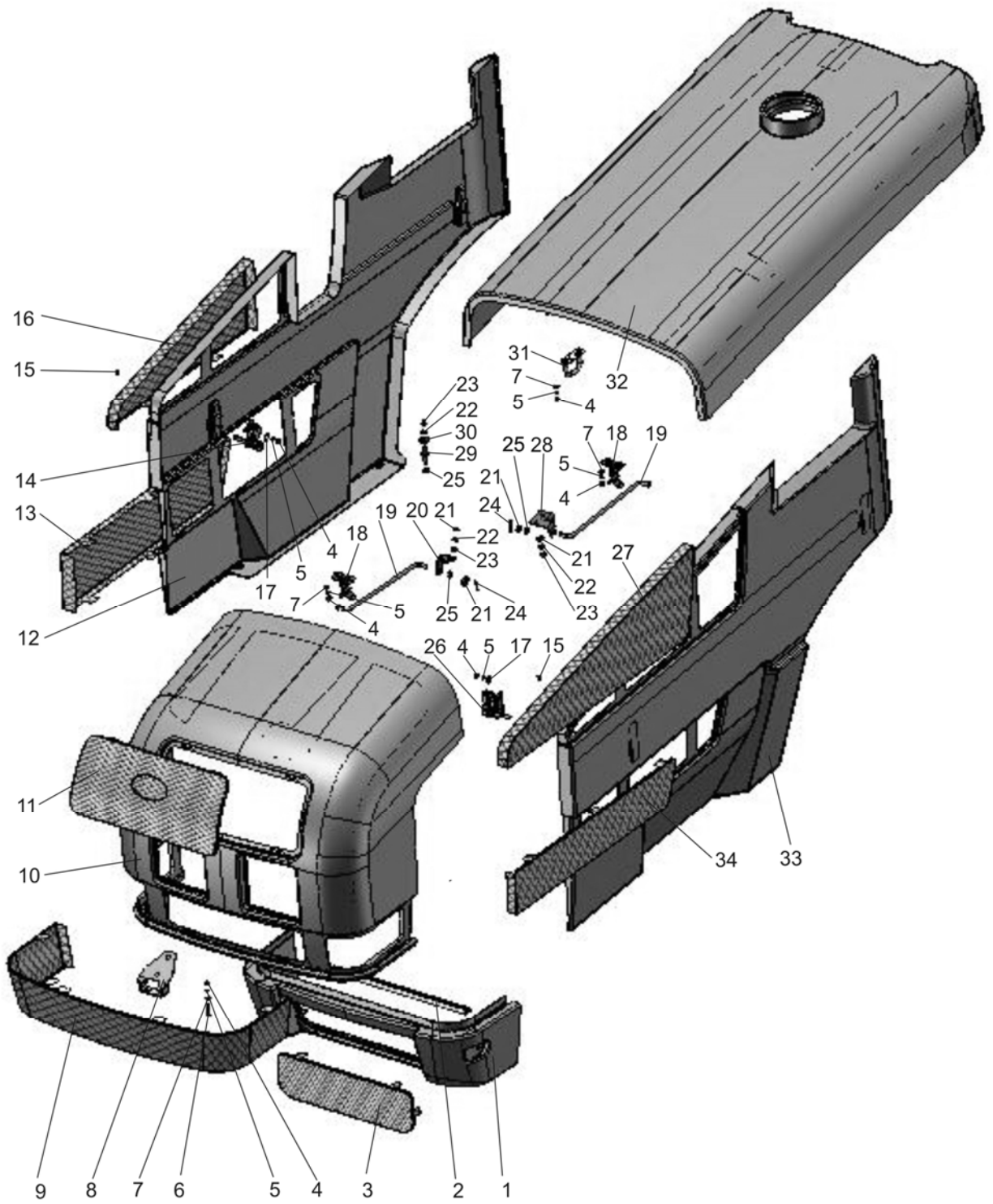


Fig. 84.1 Facing (for tractor Belarus– 1221.2/1221B.2/1221.3/1221B.3)

Group 84. Hood and fenders
Subgroup 8400. Facing (for tractor BELARUS– 1221.2/1221B.2/1221.3/1221B.3)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
84.1 84.2	1	TA 1222-8400015	1	Apron
	2	A.37.08.045	1	Seal
	3	923-8401088	1	Grid
	4	M6-6H.6.019	22	Nut GOCT 5915-70
	5	6T	44	Washer OCT 37.001.115-75
	6	B.M6-6gx40.58.019	2	Screw GOCT 17475-86
	7	C6.01.019	12	Washer GOCT 11371-78
	8	1523-8402420	1	Clamp
	9	1523-8401087	1	Grid
	10	TA 1222-8400015	1	Mask
	11	950.3-8401090	1	Grid
	12	TA 12222-8402320	1	Side member
	13	1523-8402318	1	Grid
	14	923-8402410-01	2	Lock
	15	WFS-4213	6	Self-tapping screw
	16	1523-8402322	1	Grid
	17	C6.01.019	33	Washer GOCT 6958-78
	18	950.3-8400050	1	Clamp
	19	90-8400070-01	2	Rod
	20	950.3-8400101	1	Bracket
	21	C8.01.019	18	Washer GOCT 11371-78
	22	8T	50	Washer OCT 37.001.115-75
	23	M8-6H.6.019	24	Nut GOCT 5915-70
	24	3.2x25.019	8	Split pin GOCT 397-79
	25	549A-1305044	6	Ring
	26	923-8402410	2	Lock
	27	1523-8402319	1	Grid
	28	950.3-8400102	1	Bracket
	29	923-8400011	4	Lock
	30	C8.01.019	32	Washer GOCT 6958-78
	31	1221-8402420	1	Clamp
	32	TA 1222-8402020	1	Hood
	33	TA 1222-8402310	1	Side member
	34	950.3-8402318	1	Grid
	35	1523-8402030	1	Frame
	36	1523-8402041	2	Bracket
	37	822-8400080-03	2	Cable
	38	1523-8402039	2	Bracket
	39	C12.01.019	5	Washer GOCT 11371-78
	40	M12x1.25-6H.6.019	2	Nut GOCT 5915-70
	41	B.M5-6gx12.58.019	4	Screw GOCT 17473-80
	42	70-4803020	2	Coupling
	43	12OT	4	Washer OCT 37.001.115-75
	44	M12-6gx30.88.35.019	4	Bolt GOCT 7796-70
	45	70-3401093	10	Lever tip
	46	923-8400033	6	Rod
	47	M10-6H.6.019	10	Nut GOCT 5915-70
	48	920-8400140	1	Support

GOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

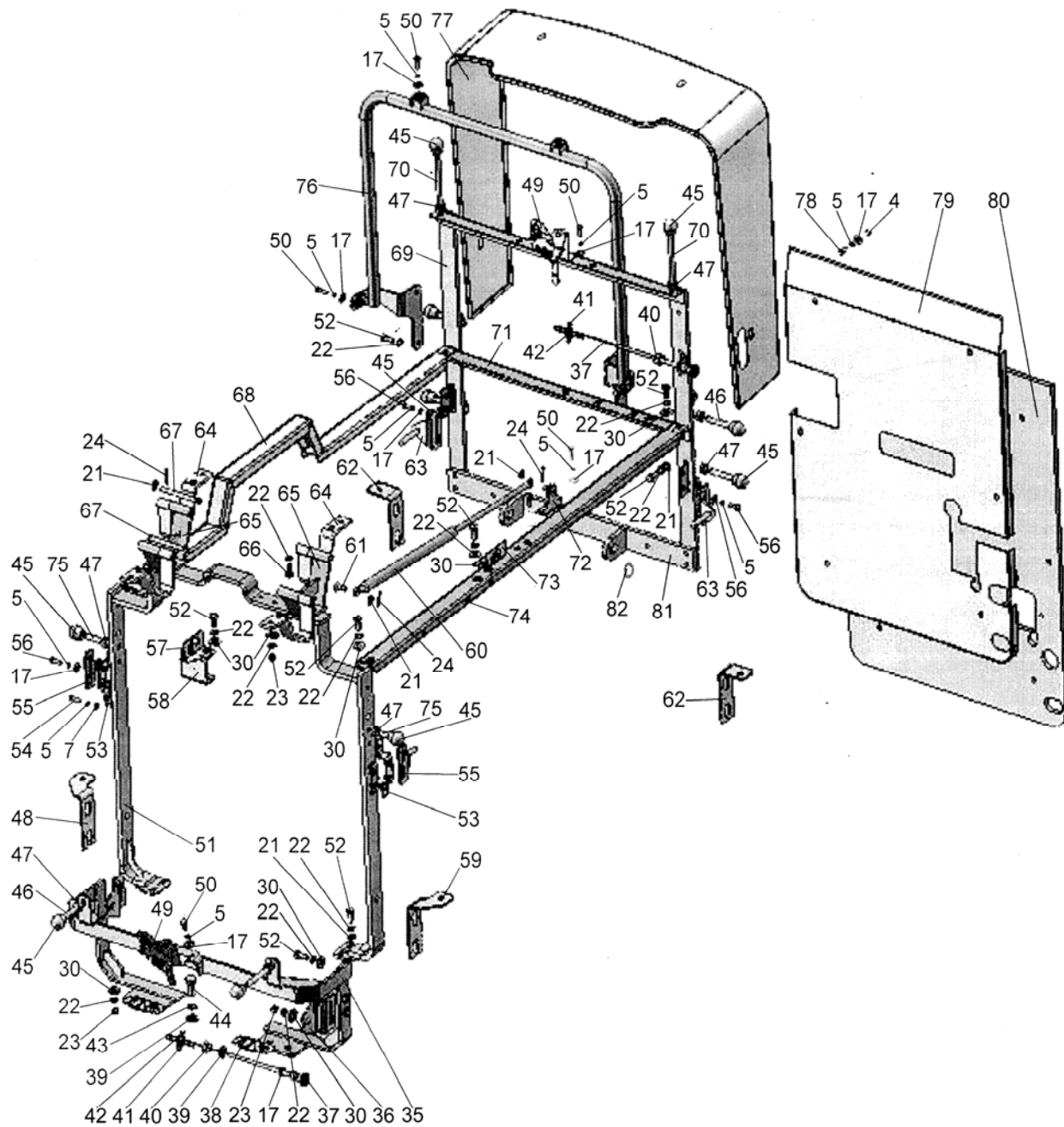


Fig. 84.2 Facing (for BELARUS tractor – 1221.2/1221B.2/1221.3/1221B.3)

Group 84. Hood and fenders
Subgroup 8400. Facing (for tractor BELARUS – 1221.2/1221B.2/1221.3/1221B.3)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
84.1	49	80-8402410	2	Lock
	84.2	50	M6-6gx16.88.35.019	14
51		1523-8402060	1	Arc
52		M8-6gx20.88.35.019	22	Bolt ГОСТ 7796-70
53		1523-8402085	2	Bracket
54		M6-6gx14.88.35.019	4	Bolt ГОСТ 7798-70
55		1321-8402095-Б	2	Fixator
56		M6-6gx20.88.35.019	4	Bolt ГОСТ 7798-70
57		923-8400060	1	Bracket
58		1523-8400170	1	Support
59		920-8400140-01	1	Support
60		21054	1	Hydraulic lift
61		80-6707096	1	Axle
62		923-8400140-01	2	Support
63		923-8402095-Б	2	Lock
64		923-8400045	4	Hinge
65		923-8400040	2	Support
66		M8-6gx30.88.35.019	8	Bolt ГОСТ 7796-70
67		923-8400031	4	Axle
68		1222.4-8402045	1	Turnbuckle
69		1221.4-8402070	1	Support
70	923-8400033-01	2	Rod	
71	1523-8402110	1	Strip	
72	80-6708225	1	Bracket	
73	90-8400012	1	Bracket	
74	1523-8400080	1	Turnbuckle	
75	M10-3p/6gx45.66.019	2	Stud ГОСТ 22034-76	
76	1221.3-8402090-01	1	Arc	
77	1523-8402082	1	Ferrule	
78	M6-6gx25.88.35.019	6	Bolt ГОСТ 7798-70	
79	1221.3-8402101	1	Screen	
80	1221.3-8402102	1	Seal	
81	1221.3-8402075	1	Support	
82	C16.01.019	2	Washer ГОСТ 11371-78	

ГОСТ – Government Standard (GOST)/State Standard

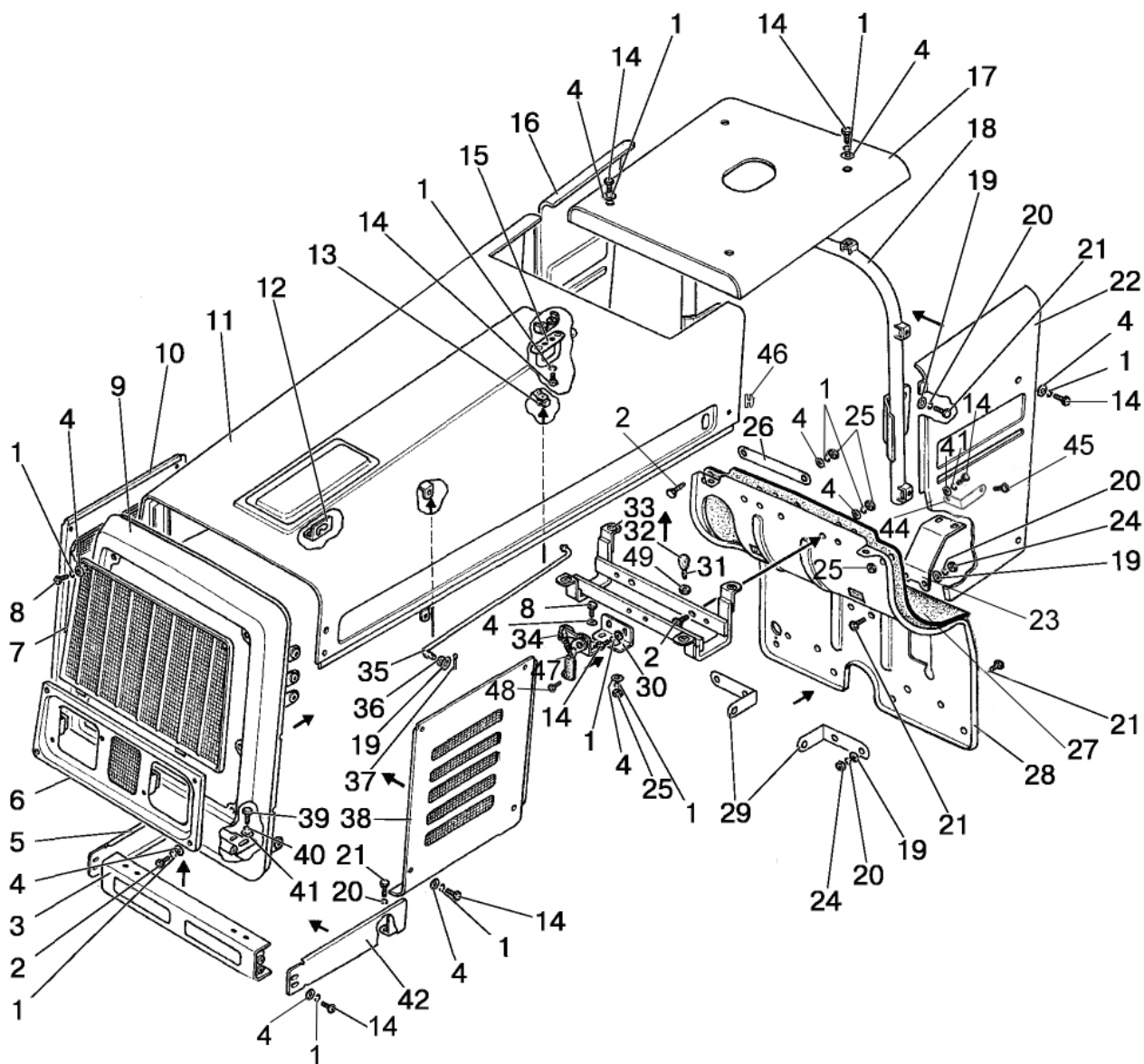


Fig. 84.3 Facing (for tractor BELARUS – 1221/1221B)

**Group 84. Hoods and fenders
Subgroup 8400. Facing (for tractor BELARUS– 1221/1221B»)**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
84.3	1	ШП 6	39	Washer
	2	M6x35	6	Bolt
	3	1221-8400030	1	Channel member
	4	ШЧ 6	35	Washer
	5	1221-8400040-01	1	Cover plate
	6	90-8401080	1	Grid
	7	90-8401120	1	Grid
	8	M6x20	17	Bolt
	9	90-8402030	1	Frame
	10	90-8402025-01	1	Side member
	11	1221-8402020	1	Hood
	12	90-8400012 -Б	1	Bracket
	13	90-8400021	1	Clamp
	14	M6x16	18	Bolt
	15	1221-8402420	1	Clamp
	16	1221-8402082-01	1	Side member
	17	1221-8402090	1	Panel
	18	1221-8402070	1	Arc
	19	ШП 8	11	Washer
	20	ШЧ 8	4	Washer
	21	M8x20	8	Bolt
	22	1221-8402082	1	Side member
	23	112-8402107	1	Bracket
	24	M8	6	Nut
	25	M6	11	Nut
	26	112-8402103-Б	2	Strip
	27	112-8402102	1	Seal
	28	112-8402101	1	Screen
	29	112-8402106	2	Bracket
	30	1221-8400011	1	Bracket
	31	M10x35	2	Stud
	32	70-3401093	2	Lever tip
	33	1221-8402060	1	Support
	34	80-8402410	1	Lock
	35	90-8400070	1	Rod
	36	549A-1305044	1	Ring
	37	3,2x25	1	Split pin
	38	90-8402025	1	Side member
	39	M10x25	8	Bolt
	40	ШП 10	8	Washer
	41	ШЧ 10	8	Washer
	42	1221-8400040	1	Cover plate
	44	1221-8400013	2	Turnbuckle
	45	BM6x16	2	Screw
	46	50-8400018	2	Blind plug
	47	50-6105056	1	Handle
	48	M4x10	1	Bolt screw
	49	M10	2	Nut

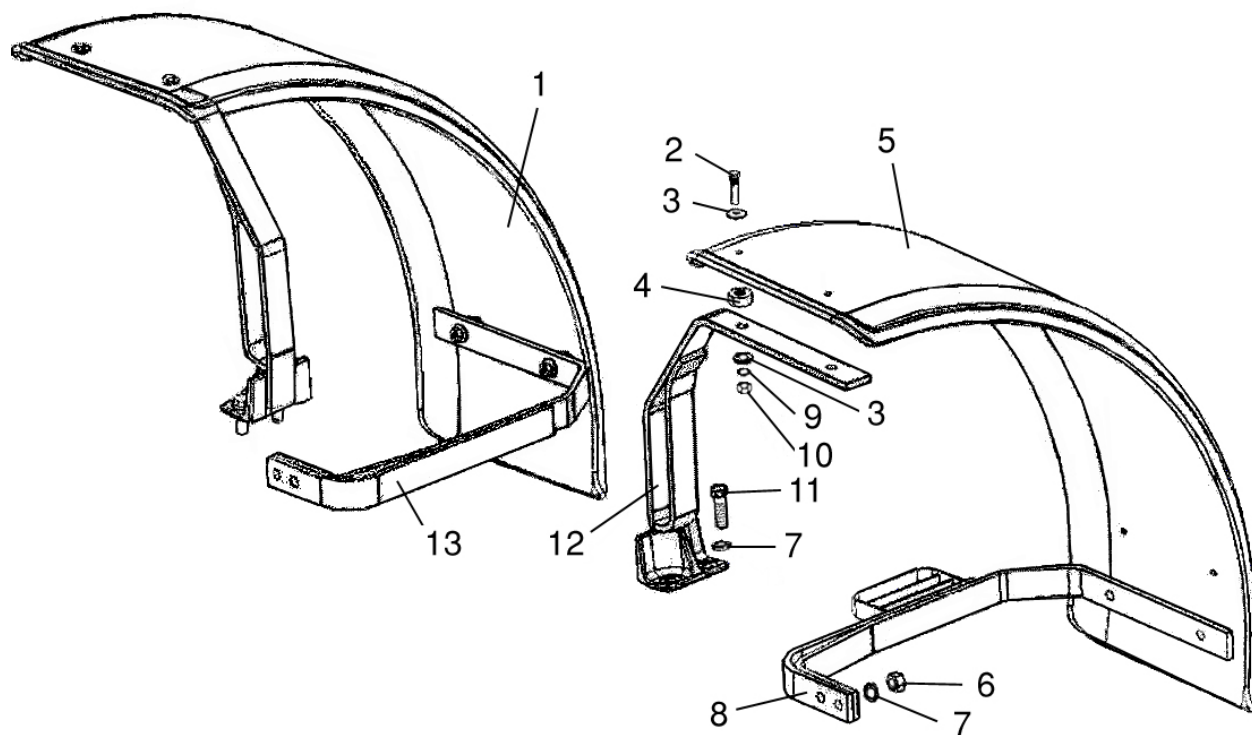


Fig. 84.4. Front fenders

Group 84. Hood and fenders
Subgroup 8403. Front fenders

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
84.4	1	1221-8403014-Б-01	1	Fender
	2	M10x45	8	Bolt
	3	ШЧ 10	16	Washer
	4	80-4616017	8	Roller
	5	1221-8403014-Б	1	Fender
	6	M16x6	4	Nut
	7	ШП 16	8	Washer
	8	1221-8403060-Б	1	Bracket
	9	ШП 10	8	Washer
	10	M10x6	8	Nut
	11	M16x50	4	Bolt
	12	1221-8403050-Б	2	Bracket
	13	1221-8403060-Б-01	1	Bracket

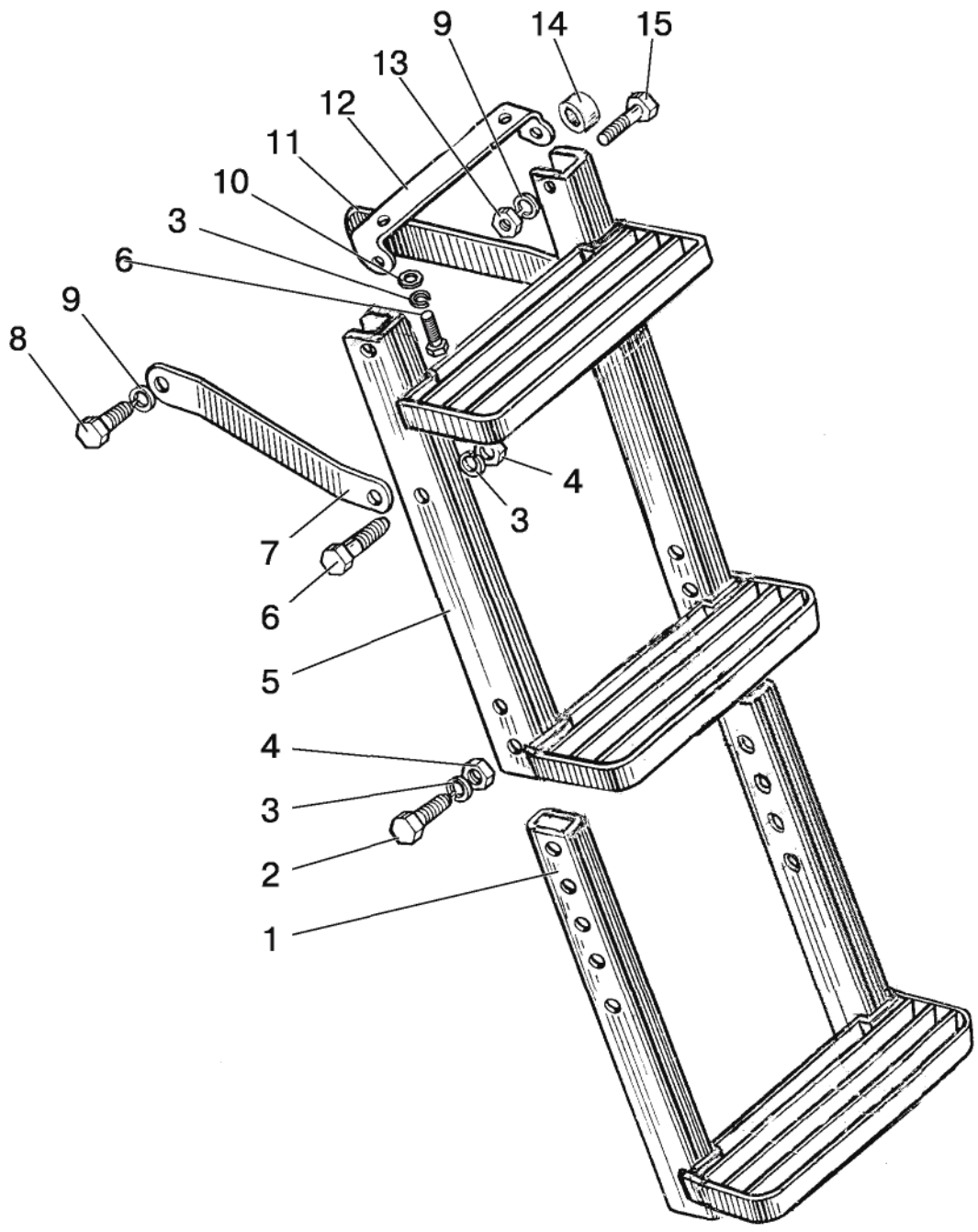


Fig. 84.5. Step

Group 84. Hood and fenders
Subgroup 8405. Step

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
84.5	1	80-8405020-A2	1	Step
	2	M10x50	4	Bolt
	3	ШП 10	8	Washer
	4	M10	6	Nut
	5	80-8405010-A3	1	Step
	6	M10x25	4	Bolt
	7	80-8405031-Б	1	Bracket
	8	M12x30	2	Bolt
	9	ШП 12	4	Washer
	10	ШЧ 10	2	Washer
	11	80-8405032-Б	1	Bracket
	12	80-8405030-Б	1	Bracket
		80-8405030-Б-01	1	Bracket (for step on the right side)
	13	M12	3	Nut
	14	923-6200111	2	Bushing
15	M12x65	2	Bolt	

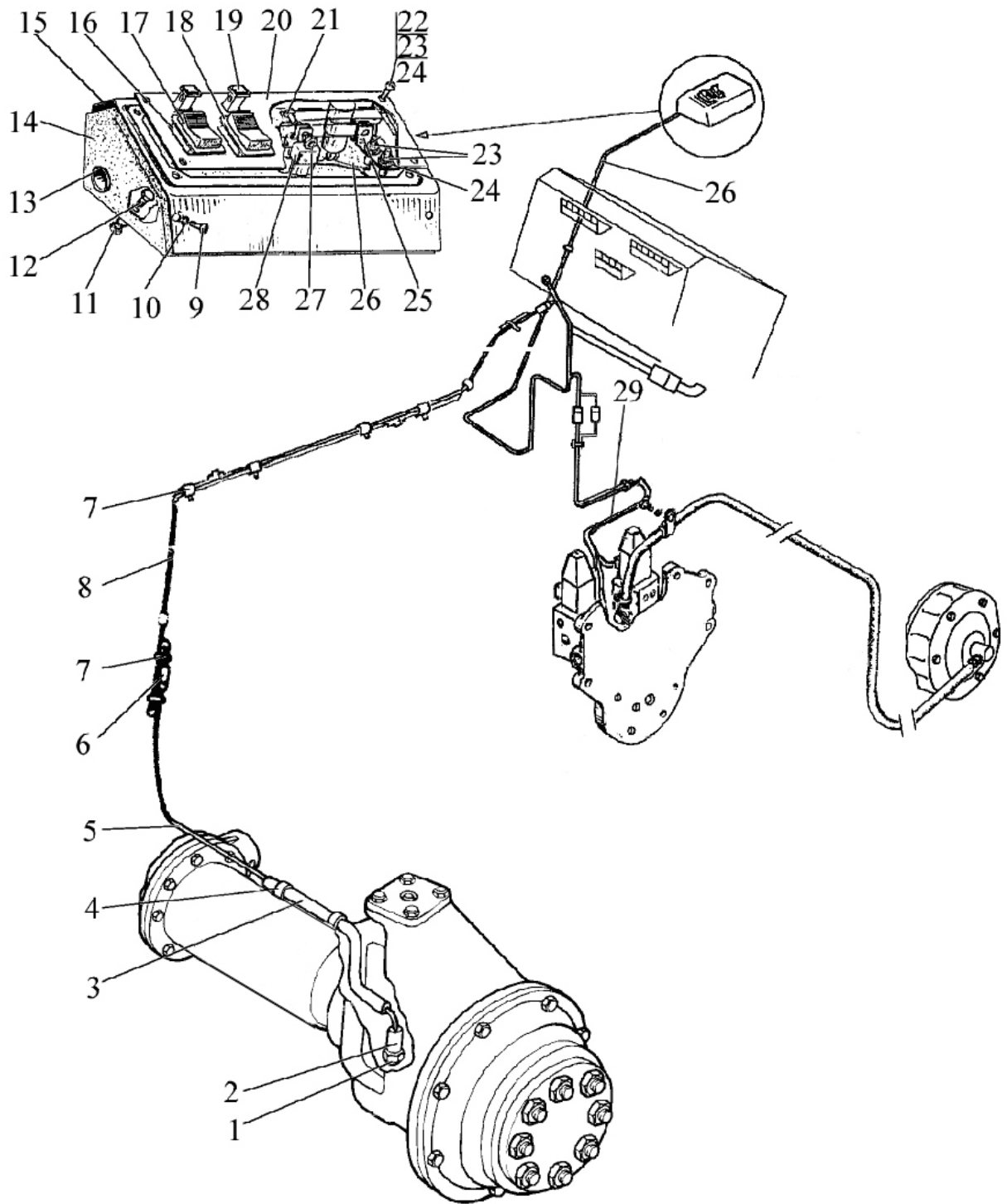


Fig. 87.1. FDA (front driving axle) control and DL (differential lock) of rear axle control (1221-8700410-Д)

**Group 87. FDA (front driving axle) control, DL (differential lock) control, PTO
(power take-off) control, hitch and reducer control (electricals).
Subgroup 8700. FDA control and DL of rear axle control**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description	
87.1	1	50-1702048	10 max	Shim washer	
	2	BK 12-51	1	Switch	
	3	1222-8700021	1	Pipe	
	4		1221-870022	2	Clip
				2	Bolt M8-6gx16.88.019 ГОСТ 7796-70
				2	Washer 8T OCT 37.001.115-75
	5	1221-3724840-B	1	Harness	
	6		1	Female receptacle 602602 OCT 37.003.032 - 88	
	7	80-3723045	18	Collar	
	8	1221-3724825	1	Harness	
	9		4	Screw BM6-6gx12.58.019 ГОСТ 17473-80	
	10		4	Washer 6T OCT 37.001.115-75	
	11			2	Nut M6-6H.6.019 ГОСТ 5915-70
				2	Washer 6T OCT 37.001.115-75
				2	Washer C6.01.019 ГОСТ 11371-78
	12		2	Bolt M6-6gx30.30.35.019 ГОСТ 7798-70	
	13	70-3723042-01	1	Bushing	
	14	1221-6700420	1	Base	
	15	1221-6700411	1	Cover	
	16	80-3801021	2	Switch seat	
	17	П147-06.17 or П147M-06.49	1	Change-over switch	
	18	П150-06.17 or П150M-06.14	1	Change-over switch	
	19	2202.3803-34 or 12.3803-31	2	Control lamp	
	20	1221-8700416	1	Panel	
	21		2	Screw BM6-6gx16.58.019 ГОСТ 17473-80	
	22		4	Screw BM5-6gx12.58.019 ГОСТ 17475-80	
	23		4	Nut M5-6H.6.019 ГОСТ 5927-70	
	24		4	Washer 5T OCT 37.001.115-75	
	25	1522-8700221	1	Bracket	
26	1221-3724860	1	Harness		
27		2	Nut M6-6H.6019 ГОСТ 5915-70		
		2	Washer 6T OCT 37.001.115-75		
28	90.3747	3	Relay		
29	1221-3724865-Д	1	Harness		

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

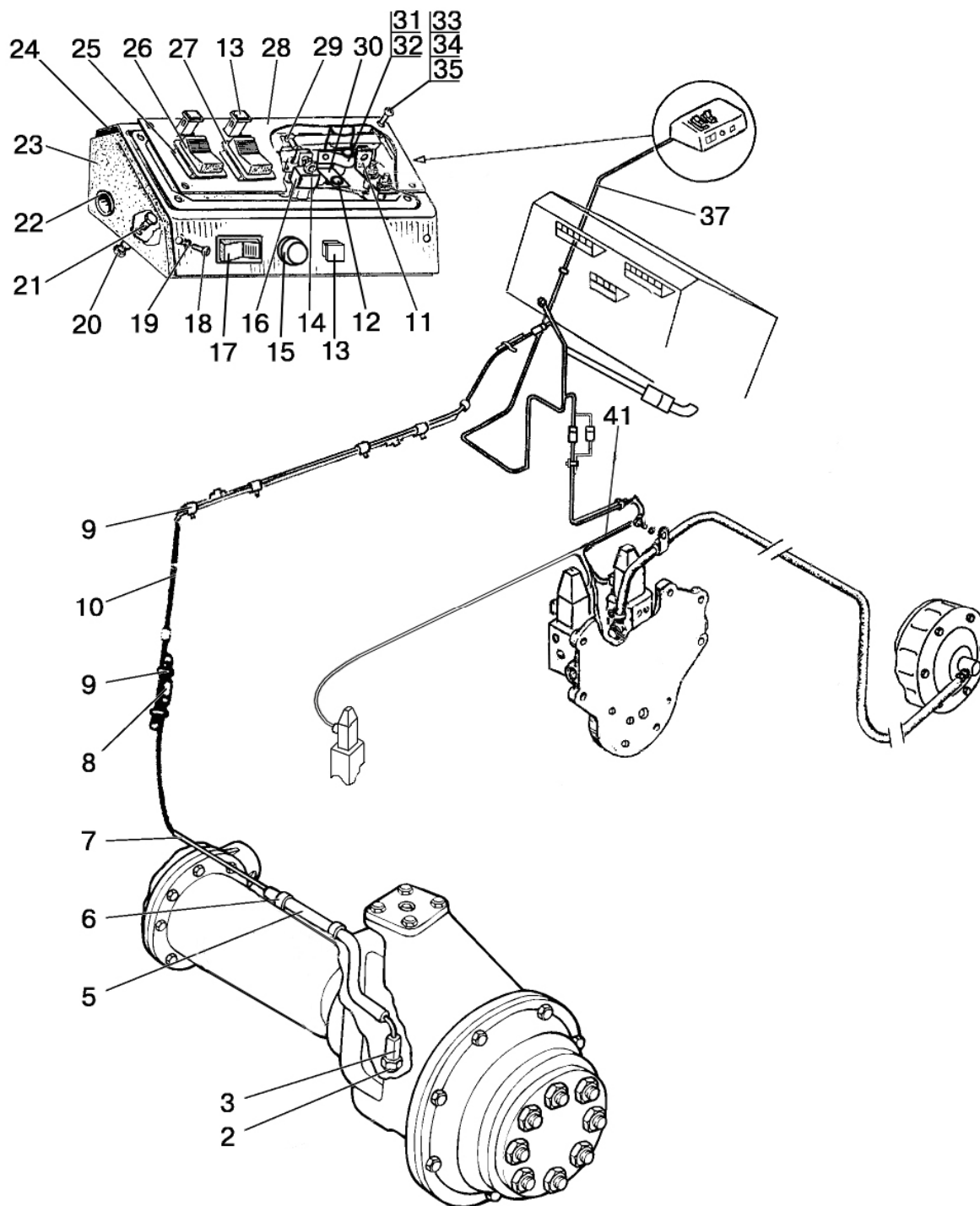


Fig. 87.2. FDA (front driving axle) control and DL (differential lock) of rear axle control and front PTO(power take-off) control (1221-8700210-Д).

Group 87. FDA (front driving axle) control, DL (differential lock) control, PTO (power take-off) control, hitch and reducer control (electricals).

Subgroup 8700. FDA control and DL of rear axle control and front PTO control

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description	
87.2	2	50-1702048	10max	Shim washer	
	3	BK 12-51	1	Switch	
	5	1222-8700021	1	Pipe	
	6		1221-870022	2	Clip
				2	Bolt M8-6gx16.88.35.019 ГОСТ 7796-70
				2	Washer 8T OCT 37.001.115-75
	7	1221-3724840-B	1	Harness	
	8		1	Female receptacle 602602 OCT 37.003.032-88	
	9	80-3723045	18	Collar	
	10	1222-3724850	1	Harness	
	11	1522-8700221	1	Bracket	
	12	1522-8700222	1	Bushing	
	13	2202.3803-34 or 12.3803-31	3	Control lamp	
	14			2	Nut M6-6H.6019 ГОСТ 5915-70
				2	Washer 6T OCT 37.001.115-75
	15	BK12-1	1	Switch	
	16	90.3747	4	Relay	
	17	П147-01.17 or П147М-01.17	1	Change-over switch	
	18		4	Screw BM6-6gx12.58.019 ГОСТ 17473-80	
	19		4	Washer 6T OCT 37.001.115-75	
	20			3	Nut M6-6H.6.019 ГОСТ 5615-70
				3	Washer 6T OCT 37.001.115-75
				3	Washer C6.01.019 ГОСТ 11371-78
	21		2	Bolt M6-6gx30.80.35.019 ГОСТ 7798-70	
	22	70-3723042-01	1	Bushing	
	23	1221-6700420	1	Base	
	24	1221-6700411-01	1	Cover	
	25	80-3801021	3	Switch seat	
	26	П147-06.17 or П147М-06.49	1	Change-over switch	
	27	П150-06.17 or П150М-06.14	1	Change-over switch	
	28	1221-8700416	1	Panel	
	29		3	Screw BM6-6gx16.58.019 ГОСТ 17473-80	
	30	1522-8700221-A-01	1	Bracket	
	31	1321-8700019	1	Clip	
	32	ПР-32-01	1	Seal	
	33		4	Screw BM5-6gx12.58.019 ГОСТ 17475-80	
	34		4	Nut M5-6H.6.019 ГОСТ 5915-70	
	35		4	Washer 5T OCT 37.001.115-75	
	37	1221-3724940	1	Harness	
	41	1221-3724950-Д	1	Harness	

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;

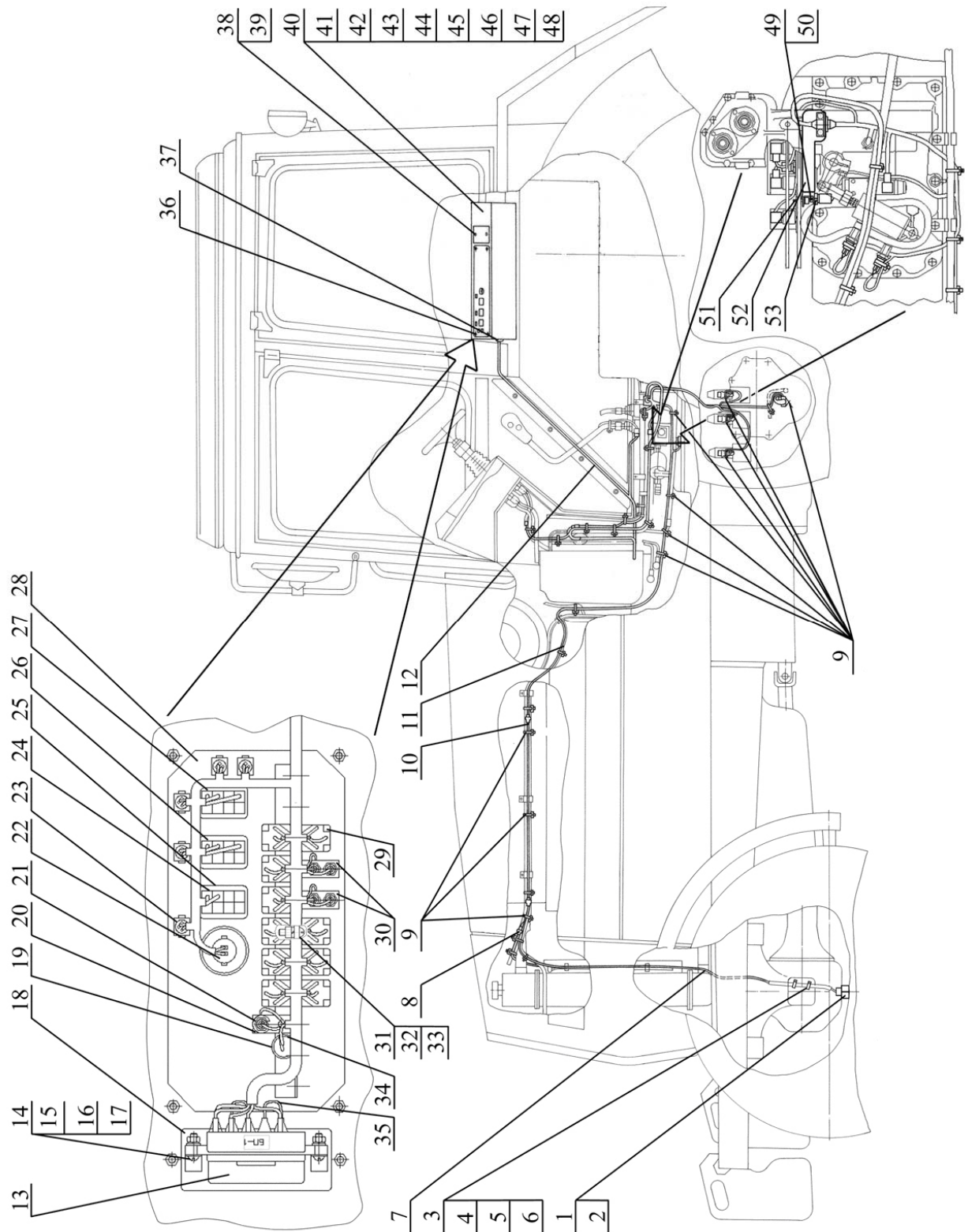


Fig. 87.3. FDA control, DL of rear axle control, rear PTO and reducer control

**Group 87. FDA (front driving axle) control, DL (differential lock) control, PTO (power take-off) control, hitch and reducer control (electricals).
Subgroup 8700. FDA control, DL of rear axle control, rear PTO and reducer control**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
87.3	1		1	Switch BK 12-51 ТУ РБ 37334210.004-97
	2	50-1702048	10max	Shim washer
	3	1222-8700021	1	Pipe
	4	1221-8700022	2	Clip
	5		2	Bolt M8-6gx16.88.35.019 ГОСТ 7796-70
	6		2	Washer 8T OCT 37.001.115-75
	7	1221-3724840-B	1	Harness
	8		1	Female receptacle 602602 OCT 37.003.032-88
	9	80-3723045	25	Collar
	10	1222-3724850	1	Harness
	11	1221-3724970-Д	1	Harness
	12	1221-3724960	1	Harness
	13		1	Fuse block БП-1 ТУ РБ 03428193.095-97
	14		2	Screw B.M6-6gx20.58.019 ГОСТ 17473-80
	15		2	Nut M6-6H.6.019 ГОСТ 5915-70
	16		2	Washer C6.01.019 ГОСТ 6958-78
	17		2	Washer 6T OCT 37.001.115-75
	18	1221-8700275	1	Screen
	19	ПР-32-01	1	Seal
	20	1522-8700221-A	1	Bracket
	21	1522-8700222	1	Bushing
	22		1	Switch BK 12-1 ЦИКС 642241.001 ТУ
	23		5	Control lamp 12.3803-31 ТУ РБ 300228919.037-2002 or Control lamp 2202.3803-34 ТУ 37.003.1109-82
	24		1	Change-over switch П 147М-01.17 ТУ РБ 14795799.001-97 or Change-over switch П 147-01.17 ТУ 37.003.701-75
	25	80-3801021	3	Switch seat
	26		1	Change - over switch П 150М-06.14 ТУ РБ 14795799.001-97 or Change-over switch П 150-06.17 ТУ 37.003.701-75
	27		1	Change-over switch П 147М-06.49 ТУ РБ 1495799.001-97 or Change-over switch П 147-06.17 ТУ 37.003.701-75
	28	1221-8700265	1	Panel
	29		10	Relay 90.3747 ТУ 37.003.1418-94
	30	1522-8700221	2	Bracket
	31		7	Screw B.M6-6gx12.58.019 ГОСТ 17473-80
	32		7	Nut M6-6H.6.019 ГОСТ 5915-70
	33		7	Washer 6T OCT 37.001.115-75
	34	1321-8700019	1	Clip

ГОСТ – Government Standard (GOST)/State Standard; OCT – industry-specific standard;
ТУ РБ – Technical Specifications of the Republic of Belarus;

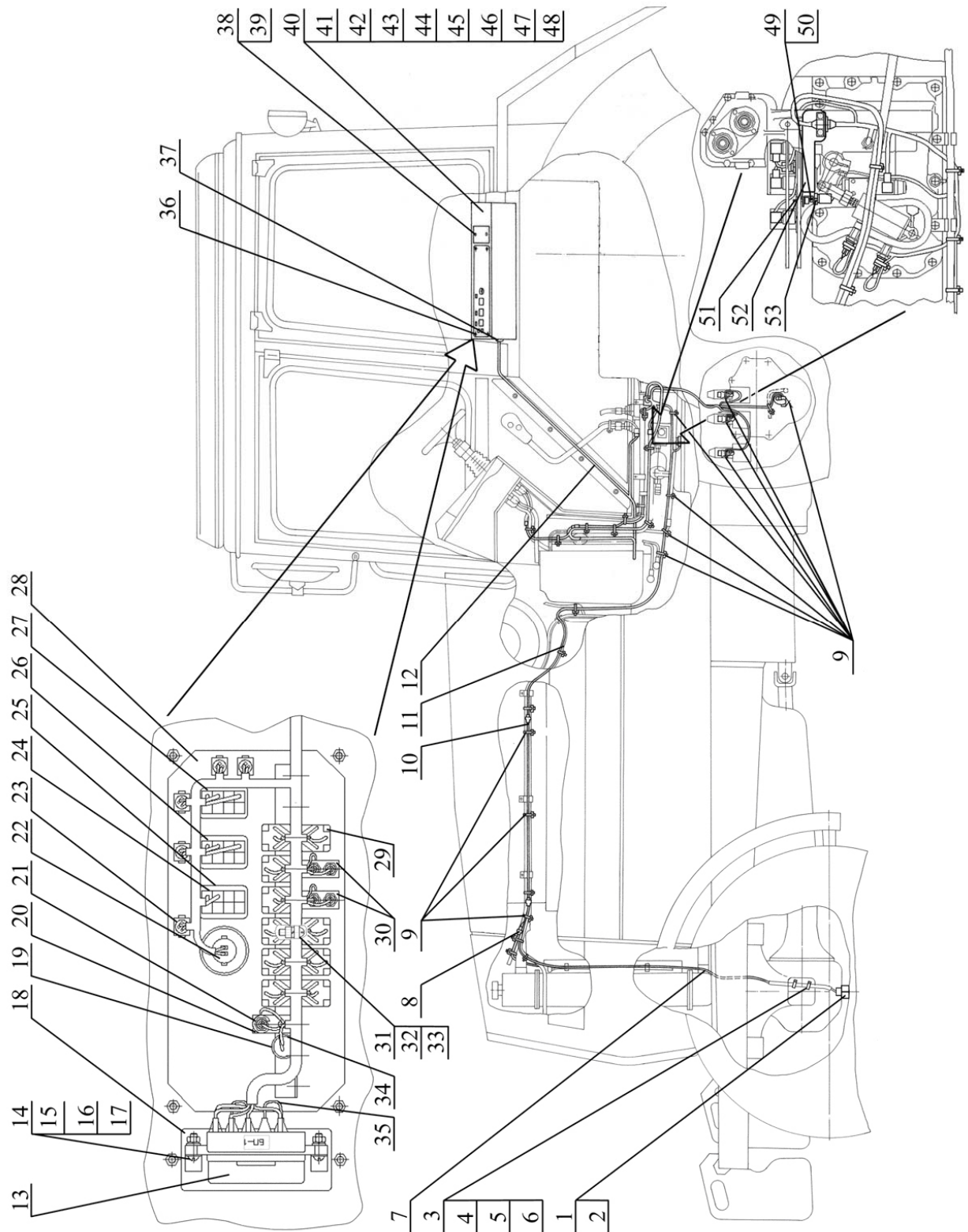


Fig. 87.3. FDA control, DL of rear axle control, rear PTO and reducer control

**Group 87. FDA (front driving axle) control, DL (differential lock) control, PTO (power take-off) control, hitch and reducer control (electricals).
Subgroup 8700. FDA control, DL of rear axle control, rear PTO and reducer control**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
87.3	35	80-3724410-06	2	Wire
	36		4	Screw B.M6-6gx20.58.019 ГOCT 17474-80
	37	70-3723042-02	1	Bushing
	38	80-3805065	2	Screw
	39		2	Ring 006-010-25-1-4 ГOCT 18829-73/ГOCT 9833-73
	40	1221-8700290	1	Instrument panel
	41		2	Bolt M6-6gx16.88.35.019 ГOCT 7798-70
	42		2	Bolt M6-6gx30.88.35.019 ГOCT 7798-70
	43		2	Nut M6-6H.6.019 ГOCT 5915-70
	44		4	Washer C6.01.019 ГOCT 6958-78
	45		2	Washer C6.01.019 ГOCT 11371-78
	46		4	Washer 6T OCT 37.001.115-75
	47	A30.04.017	2	Cap
	48		2	Rivet-nut M6x16 TY BY 161.01-2008
	49		1	Nut M14x1,5-6H.6.019 ГOCT 5915-70
	50		1	Washer 14 OT OCT 37.001.115-75
	51	1221-8700286	1	Lever
	52	1221-8700280	1	Bracket
53	BK 12-2	1	Switch BK 12-2 TY PБ 07512465.017-94	

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;
TY PБ – Technical Specifications of the Republic of Belarus;

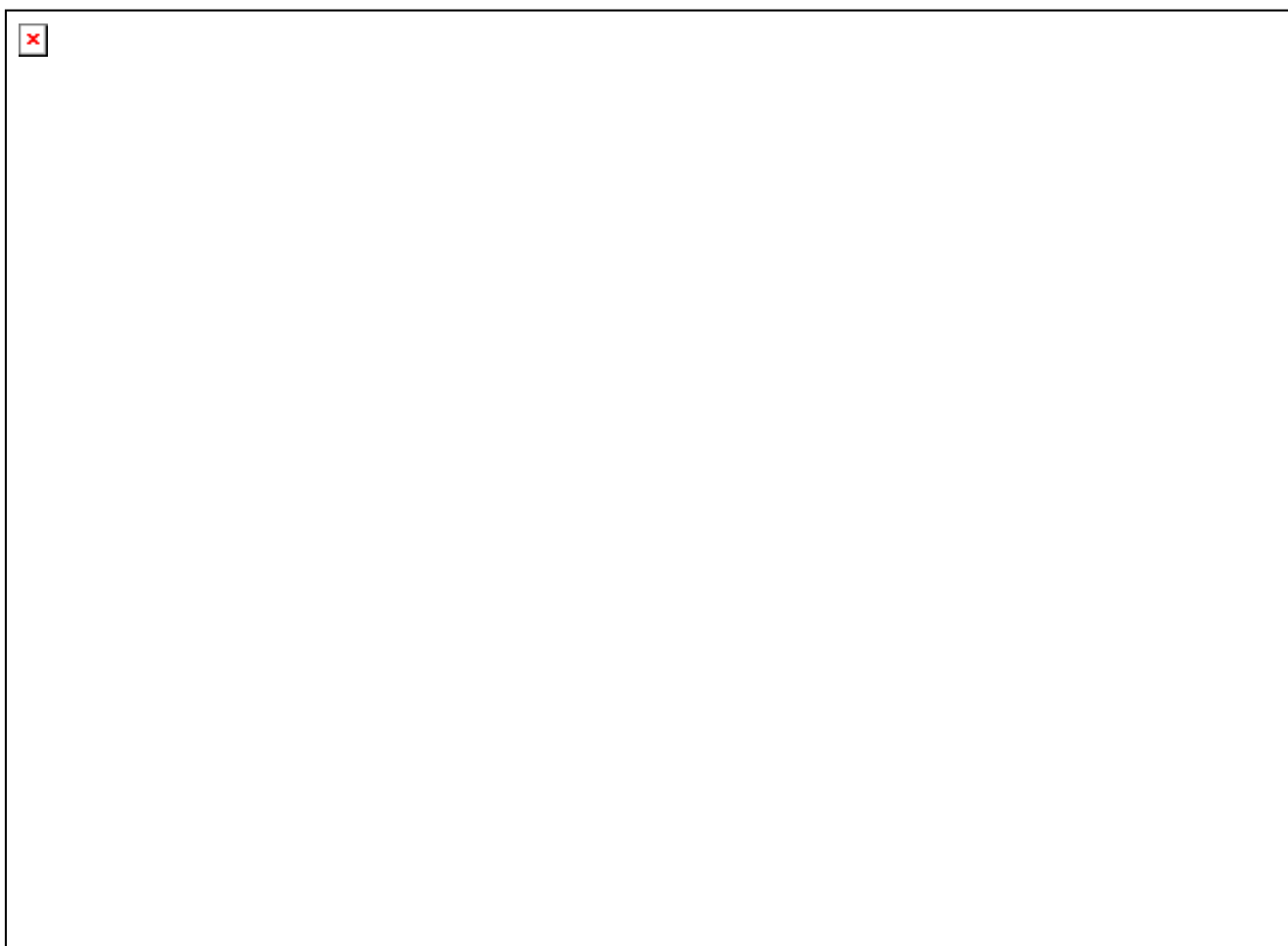


Fig. 87.4. Rear hitch control

**Group 87. FDA (front driving axle) control, DL (differential lock) control, PTO
(power take-off) control, hitch and reducer control (electricals).
Subgroup 8700. Rear hitch control**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Description
87.4	1	1221-3724895	1	Harness
	2	80-3723045-01	14	Collar
	3		1	Control panel 0538201611
	4		4	Screw BM4-6gx10.58.019 ГOCT 17475-80
	5		4	Nut M4 -6H.6.019 ГOCT 5915-70
	6		4	Washer C4 .01.019 ГOCT 6958-78
	7		4	Washer 4 OCT 37.001.115-75
	8		4	Button switch 145000AB
	9	1221-8700620	1	Bracket
	10	1221-8700620-01	1	Bracket
	11	1221-3724885	2	Harness
	12		2	Female receptacle 602604 OCT 37.003.032-88
	13		2	Male receptacle 502604 OCT 37.003.032-88
	14		1	Electronic module R 917004743
	15		2	Bolt M6-6gx16.88.35.019 ГOCT 7798-70
	16		2	Nut M6-6H.6.019 ГOCT 5915-70
	17		2	Washer 6T OCT 37.001.115-75
	18	A 30.04.017	2	Cap
	19	1221-3724890	1	Harness
	20	80-6702402-Б-04	1	Plate
	21	70-3723042-02	1	Bushing

ГOCT – Government Standard (GOST)/State Standard; OCT – industry-specific standard;