
BELARUS

1220.1/ 1220.3/ 1220.4

1220.1-0000010 KDS

CATALOGUE OF PARTS AND ASSEMBLY UNITS

BELARUS

1220.1/1220.3/1220.4

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

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

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

The catalogue was prepared by engineer of Department of Design and Experimental Works - 1 (DDER-1) *E.N. Bogdanovich*. Basic data was provided by key specialists of DDER-1 of RUE “Minsk tractor works”.

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BELARUS

1220.1/1220.3/1220.4

CONTENTS

Introduction	4
How to use this catalogue	4
Application	5
Index of groups and subgroups of catalogue assembly units and parts	6
Assembly units and parts	10

INTRODUCTION

The present catalogue contains the whole range of assembly units and parts for tractors BELARUS-1220.1/1220.3/1220.4.

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

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

HOW TO USE THE CATALOGUE

Catalogue includes tractor assembly units and parts:

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

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

"...52-2303030 2 Gear (5-7)".

It means that assembly unit "Gear" in the number of 2 pieces per assembly unit consists of the following parts: gear (pos. 5), gasket (pos. 6) and blind plug (pos. 7). "Quantity" column gives number of assembly units and parts used in this subgroup (2303) per tractor.

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

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

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

For example, parts "1221-6702300 (left bracket)" and "1221-6702300-01 (right bracket)" have different structural variations and **are not interchangeable**.

Some parts, taken from previous tractor models, have alphanumeric designations. For example, "Д18-051 Bolt".

APPLICATION

The tractors "BELARUS-1220.1/1220.3/1220.4" are general-purpose wheeled tractor of traction class 2 with wheel arrangement 4x4, intended for performance of various agricultural operations with mounted, semi-mounted and trailed machines and implements, for loading and transport operations.

The tractor "BELARUS-1220.1" is a basic model with diesel engine D-245.2S2, rated power 90 kW.

The tractor "BELARUS-1220.3" – modification with diesel engine D-245.2S2, rated power 90 kW, muffler at the right rack of the cabin.

The tractor "BELARUS-1220.4" - modification with diesel engine D-245.2S3A or D-245.2S3AM, rated power 90 kW.

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

Gearbox (GB): GB 16x8 - mechanical, fixed-ratio, with constant-mesh gears, with shifting of gears inside the ranges by synchro units, with shifting of ranges by gear couplings; GB 24x12 (optional) - mechanical, fixed-ratio, with constant-mesh gears, with shifting of gears inside the ranges by synchro units, with shifting of ranges by gear couplings and synchro unit.

The rear axle - with main drive (a pair of bevel gears, differential unit, differential lock assembly), frictional coupling with automatic electrohydraulic control and possibility of positive locking, planetary final gears.

The front driving axle (FDA) is portal-frame with planetary-cylindrical final gears; FDA drive is multiple-disk hydraulically operated coupling, cardan shaft.

Working brakes are dry tripple-disk, acting on rear wheels and through FDA drive on front wheels; parking brake is multiple-disk, in the unified housing with the working brakes, with separate mechanical drive; drive of trailer brakes is pneumatic, interlocked with tractor brakes control.

The hydraulic system is intended for performance with mounted and semi-mounted agricultural machines, providing at the rear linkage for the draft, position and combined (position-draft) adjustment of tillage depth of agricultural machinery. The system has three pairs of independent outlets.

The rear lift linkage is a type of NU-3, drawbar hitch of a lift type TSU-3-V.

The rear power takeoff shaft (PTO shaft) is continuous two-speed and synchron, end extension of PTO shaft (21 splines), PTO shaft 1s (8 splines, in SPTA). The direction of rotation is clockwise when viewed from the shaft end face.

The trailer brakes control drive is single-wire pneumatic, interlocked with trailer brakes.

The cabin is a one-seated with a rigid framework, providing security, microclimate, having noise and vibration insulation, with heat absorbing glasses. The cabin is equipped with electrical wiper and washer of front and rear glass, heater, seat, adjustable for operator's height and weight.

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
11	Diesel Engine Mechanisms			
	1001	10.1	Diesel Engine Assembly	10
	Fuel System			
	1101	11.1	Fuel Tanks	12
	1108	11.2	Fuel Supply Control 1021-1108500	14
	1108	11.3	Fuel Supply Control 1221-1108005	18
	1108	11.4	Fuel Supply Control 1221.4-1108000	20
	1109	11.5	Air Cleaner "Donaldson" (D-245.2S2)	22
	1109	11.6	Air Cleaner "Donaldson" (D-245.2S3A and D-245.2S3AM)	24
	1117	11.7	Fuel Filter Assembly	26
12	Gas Exhaust System			
	1205	12.1	Muffler Assembly 1220.1-1205005	28
	1205	12.2	Muffler Assembly 1021.4-1205600	30
	1205	12.3	Muffler	32
13	Cooling System			
	1301	13.1	Cooling Unit	34
	1309	13.2	Fan Guard	36
	1317	13.3	Cooler Assembly	38
16	Clutch			
	1601	16.1	Clutch Assembly	40
	1601	16.2	Clutch Housing	42
	1601	16.3	Clutch Housing	44
	1602	16.4	Clutch Control	48
17	Gearbox			
	1701	17.1	Gearbox 112-1700010-A (16F+8R)	50
	1701	17.2	Gearbox. Primary Shaft	52
	1701	17.3	Gearbox. Secondary Shaft	54
	1701	17.4	Gearbox. Intermediate Shaft	56
	1701	17.5	Shaft of Low Speeds	58
	1702	17.6	Control Mechanism of Gearbox (16F+8R)	60
	1701	17.7	Gearbox 1222-1700010 (24F+12R)	64
	1701	17.8	Primary Shaft	66
	1701	17.9	Intermediate Shaft	68
	1701	17.10	Shaft of Low Speeds and Reverse	70
	1701	17.11	Gear Unit Shaft	74
	1701	17.12	Secondary Shaft	76
	1702	17.13	Control Mechanism of Gearbox (24F+12R)	78
	1704	17.14	Pump Drive	82
	1716	17.15	Filter	84
	1737	17.16	Filter-distributor	86
18	FDA Drive			
	1802	18.1	Drive of Front Driving Axle	88
22	Cardan Drive			
	2203	22.1	Cardan Drive	92
	2210	22.2	Guard	94
23	Front Driving Axle			
	2300	23.1	Front Driving Axle 822-2300020	96
	2302	23.2	Gear	98
	2303	23.3	Differential Unit	100
	2308	23.4	Final Drive Reduction Gear Unit of Front Driving Axle	102

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
24	Rear Axle			
	2401,2403, 2407	24.1, 24.1a	Rear Axle. Differential Unit. Final Drives	106
	2401	24.2	Final Drive (Lubricant)	111
	2409	24.3	Differential Locking Mechanism	112
	2409	24.4	Differential Locking Mechanism of Wet Type	114
27	Drawbar Hitch			
	2707	27.1	Drawbar Hitch	116
	2707	27.2	Drawbar Hitch (Configuration Variants)	118
28	Frame			
	2801	28.1	Semi-frame	120
	2805	28.2	Trailing Appliance	122
	2807	28.3	Trailer Hook K1220-2807010-A	124
	2807	28.4	Trailer Hook K1220-2807010-A (Options Arrangement)	126
30	Steering Link			
	3003	30.1	Steering Link	128
31	Wheels and Hubs			
	3101	31.1, 31.2	Front Driving Wheels	130
	3104, 3107	31.3,31.4	Rear Driving Wheels. Rear Wheels Hubs	132
34	Steering Control			
	3401	34.1	Steering Column	134
	3407	34.2	Steering Control 1025-3400010	136
	3405	34.3	Hydraulic Cylinder LJ63 (63x30-200)	140
	3407	34.4	Tank	142
35	Brakes			
	3502	35.1	Brakes	144
	3502	35.2	Wet Brakes	146
	3503	35.3	Control of Wet Brakes	148
	3504, 3507	35.4	Parking and Emergency Brake, Control of Parking and Emergency Brake	150
	3504, 3507	35.5	Parking and Emergency Brake. Control of Parking and Emergency Brake (for Wet Brakes)	152
	Pneumatic Drive			
	3506	35.6	Pneumatic Drive 1220-3506005 (Single-line)	154
	3513	35.7	Pneumatic Drive 1220-3506505 (Double-line)	156
	3514	35.8	Brake Valve	158
	3521	35.9	Coupling Head (for Single-line Pneumatic Drive)	159
	3521	35.10, 35.11	Coupling Head (for Double-line Pneumatic Drive)	160 161
37	Electrical Equipment			
	3700	37.1	Engine Electrical Equipment 920-3700030-B	162
	3700	37.2	Engine Electrical Equipment 1025.4M-3700030	164
	3700	37.3	Transmission Electrical Equipment	166
	3700	37.4	Cabin Electrical Equipment	168
	3703	37.5	Storage Batteries assembly	170
	3711	37.6	Head Lamps assembly	172
	3711	37.7	Working Lights assembly	174
	3711	37.8	Front Lights assembly	176
	3716	37.9	Rear Lights assembly	178
	3730	37.10	Electrical Equipment of Conditioner	180

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
37	3730	37.11	Electrical Equipment of Heater	182
	3738	37.12	Roadtrain Lights assembly	183
	3738	37.13	Beacon Assembly	184
	3741	37.14	Electrical Equipment of Starting Device	186
38	Instruments			
	3805	38.1	Dashboard. Dashboard Assembly.	188
	3805	38.2	Dashboard (in Expanded Form)	189
39	Tools and Accessories			
	3901	39.1	Operator Tool	192
	3912	39.2	First Aid Kit	193
	3919	39.3	Tool Box	193
42	Power Take-Off			
	4202	42.1	Rear PTO Shaft	194
	4202	42.2	Crown Gear	198
	4216	42.3	Control of Rear Power Take-Off Shaft	200
	4235	42.4	Ballast	202
46	Hydraulic System			
	4605	46.1	Lift Linkage with Hydraulic Lift	204
	4605	46.2	Lift Linkage	208
	4607	46.3	Hydraulic System M1221-4600010	212
	4607	46.4	Hydraulic System Housing M1221-4600015	216
	4607	46.5a, 46.5b	Hydraulic System P1221-4600010	220
	4607	46.6	Hydraulic System Housing P1221-4600015	224
	4607	46.7	Hydraulic System E1221-4600010	228
	4607	46.8a, 46.8b	Hydraulic System Housing E1221-4600015	230
	4607	46.9a, 46.9b	Hydraulic System P920-4600010-01	234
	4607	46.10a, 46.10b	Hydraulic System Housing P920-4600015-01	238
	4607	46.11a, 46.11b	Hydraulic System 920-4600010-01	242
	4607	46.12	Hydraulic System Housing 952-4600015-08	246
	4604	46.13	Pump Drive	250
	4607	46.14	Control of Hydraulic Distributor Valve (P170, RS 213 Mita)	252
	4607	46.15	Hydraulic System Housing and Filter	254
	M036.50Б	46.16	Fast Coupling	256
	P170	46.17	Hydraulic Distributor Valve P170	258
	4625	46.18	Hydraulic Lift Cylinder	262
	4634	46.19	Distributor Valve of Hydraulic Lift	264
	4635	46.20	Hydraulic Lift Control	266
	4635	46.21	Hydraulic Lift	270
	4635	46.22	Hydraulic Lift E1221-4635010	272
52	Windscreen Wipers			
	5205	52.1	Windscreen Wiper Assembly	274
	5208	52.2	Windscreen Washer assembly	276
67	Cabin			
	6700	67.1	Tractor Cabin	278
	6700	67.2	Tractor Cabin	282
	6700	67.3, 67.4	Roof	284
	6700	67.5	Panels	286
	6702	67.6	Cabin Doors	288

INDEX OF GROUPS AND SUBGROUPS OF CATALOGUE ASSEMBLY UNITS AND PARTS

Group	Subgroup	Fig.No	Name	Page
68	Seat			
	6800	68.1	Operator Seat	290
	6800	68.2	Operator Seat	294
	6801	68.3	Seat Suspension	296
	6809	68.4	Additional Seat	300
81	Heater			
	8101	81.1	Heater	302
	8100	81.2	Conditioner Assembly	304
	8100	81.3	Compressor Assembly	306
82	Cabin Accessories			
	8201	82.1	Inside Mirror	308
	8201	82.2	Outside Mirror	308
	8204	82.3	Sun Visor	308
84	Fin Assembly			
	8400	84.1	Facing	310
	8403	84.2	Front Wheels Wings	314
	8405	84.3	Foot Step	316
87	Control System			
	8700	87.1	Control of MMZ Tier-3a Engine (D-245.2S3A)	318
	8700	87.2	Control of FDA, DL of Rear Axle and Front PTO Shaft (with GB 16Fx8R)	320
	8700	87.3	Control of FDA, DL of Rear Axle and Front PTO Shaft (with GB 16Fx8R) (for Tractors 1220.4)	322
	8700	87.4	Control of FDA, DL of Rear Axle, Rear PTO Shaft and Reduction Gear Unit (with GB 24Fx12R)	326
	8700	87.5	Control of Rear Lift Linkage	330

Adopted abbreviations and conventional notations:

GOST – State Standard
OST – Industry-specific standard
TU – Technical Specifications
TU RB – Technical Specifications of the Republic of Belarus
MMZ – Minskiy Motorny Zavod (Minsk Motor Plant)
KDS – Catalogue of parts and assembly units
KD – Catalogue of parts

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

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

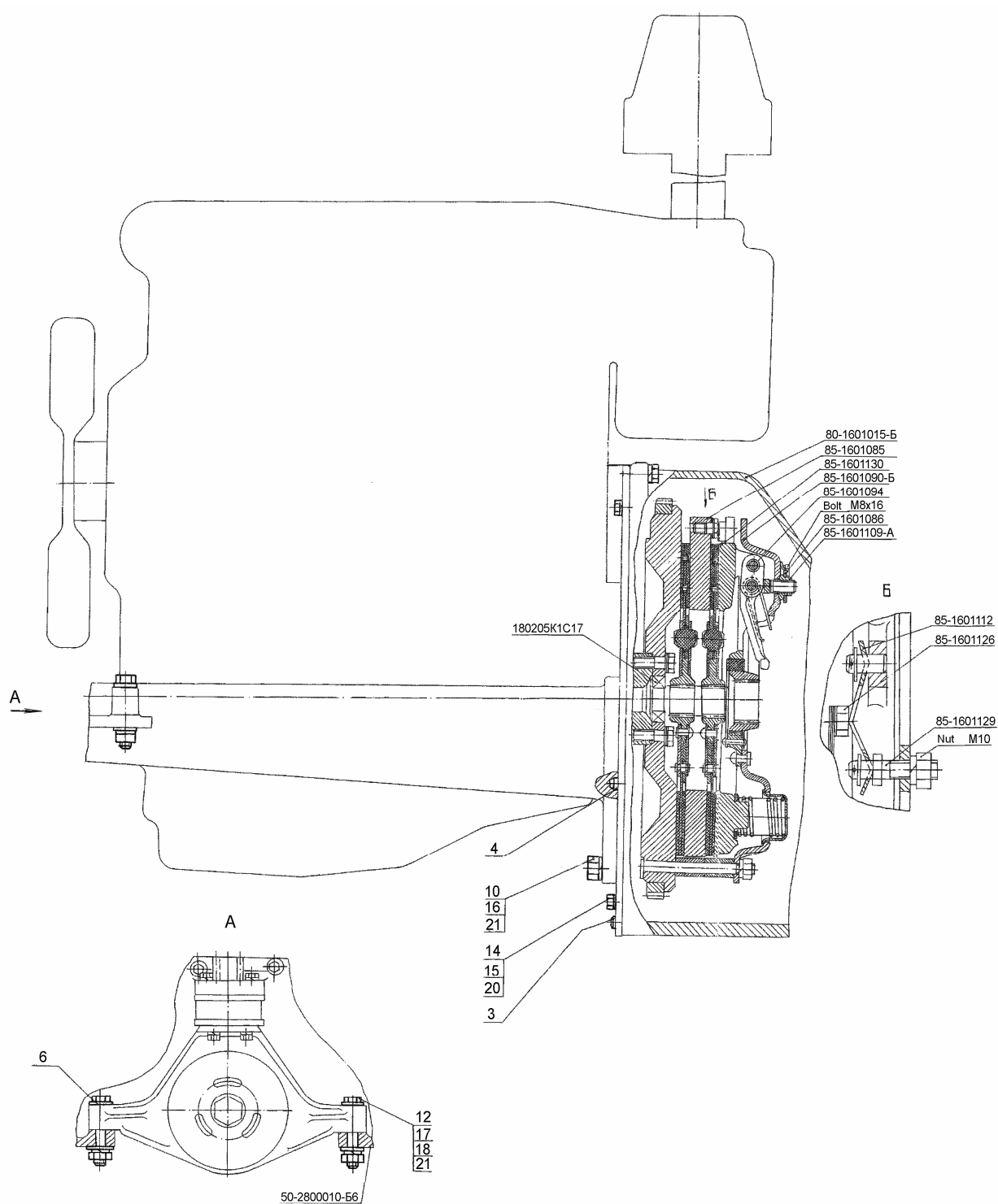


Fig.10.1. Engine Assembly

BELARUS**1220.1/1220.3/1220.4****Group 10. Diesel Engine Mechanisms****Subgroup 1001. Engine Assembly**

Fig. No	Pos.No	Assembly unit or part No	Q-ty	Name
10.1		1025-1001001	1	Engine assembly
	3	Д01-015	2	Locating pin
	4	50-1601352	2	Locating pin
	6	52-2301065	2	Washer
	10	70-2800016	4	Bolt
	12	M16-6gx100.88.35.019 GOST 7795-70	2	Bolt
	14	M12-6gx30.88.35.019 GOST 7796-70	3	Bolt
	15	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	16	M16-6gx60.88.35.019 GOST 7795-70	6	Bolt
	17	M16-6H.6.019 GOST 5915-70	2	Nut
	18	C 16.01.019 GOST 11371-78	2	Washer
	20	12 OT OST 37.001.115-75	4	Washer
	21	16 OT OST 37.001.115-75	12	Washer

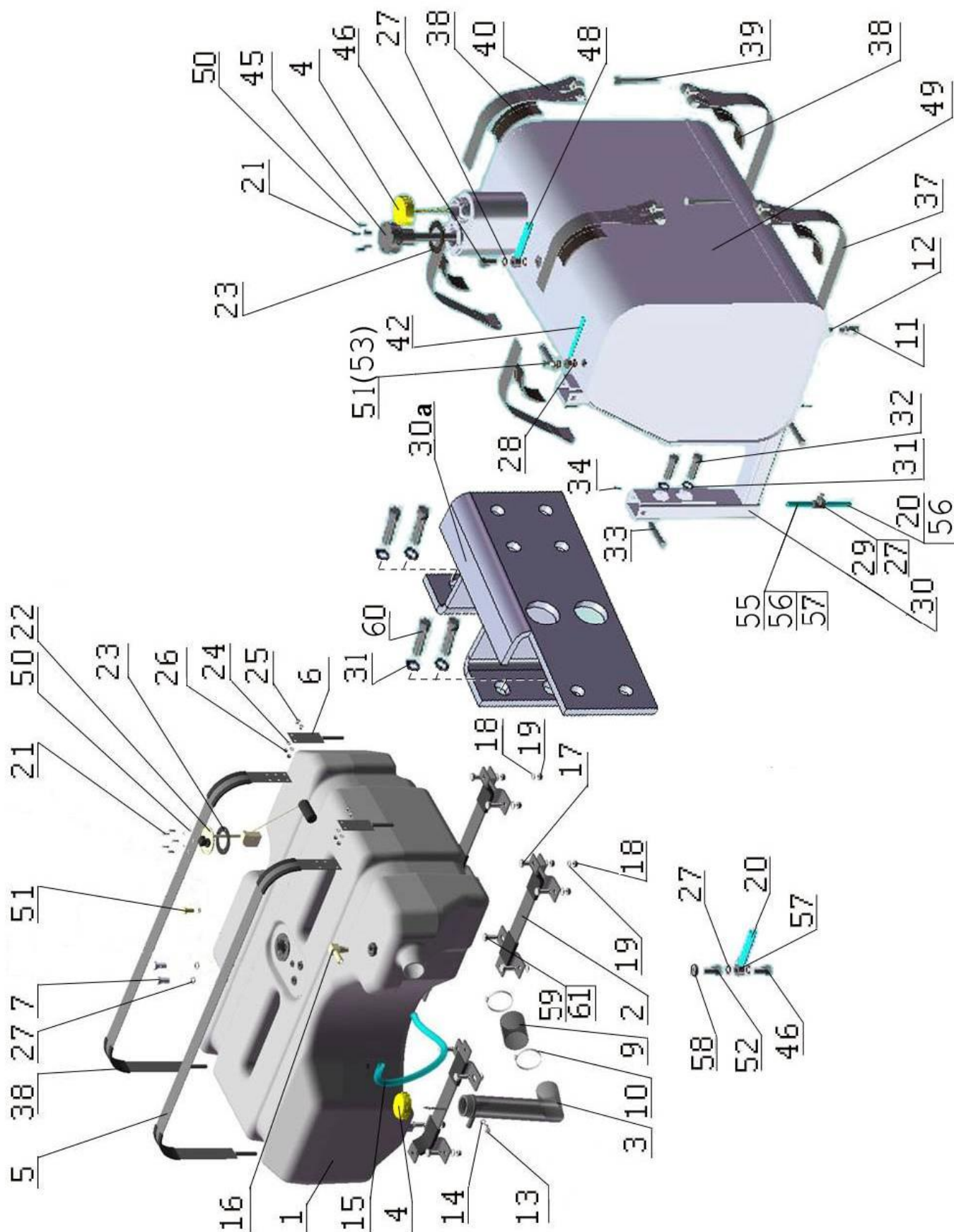


Fig. 11.1. Fuel Tanks

BELARUS
1220.1/1220.3/1220.4
Group 11. Fuel System Subgroup 1101. Fuel Tanks

Fig.No	Pos.No	Designation	Q-ty			Name
			1220.1	1220.3	1220.4	
11.1	1	1221-1101510 or ЯВАГ1221-1101510	1	1	1	Tank
	2	1221-1101430	4	4	4	Bracket
	3	920-1101260	1	1	1	Throat
	4	082 1103010	2	2	2	Plug
	5	1221-1101680	2	2	2	Clamp
	6	1221-1101690-01	2	2	2	Clamp
	7	1021-2412004	2	2	2	Plug
	9	70-1101035-Б	1	1	1	Hose
	10	XC-66	2	2	2	Clamp
	11	822-1101081	1	1	1	Coupling
	12	11,112-100 GOST 3722-81	1	1	1	Ball
	13	M8-6gx20.88.35.019 GOST 7796-70	1	1	1	Bolt
	14	8T OST37.001.115-75	1	1	1	Washer
	15	85-1101002	1	1	1	Pipe
	16	1221-1101620	1	1	1	Coupling
	17	M10-6gx25.88.35.019 GOST 7796-70	8	8	8	Bolt
	18	M10-6H.6.019 GOST 5915-70	12	12	12	Nut
	19	10 OT OST 37.001.115-75	12	12	12	Washer
	20	920-1101162-07	1	1	2	Pipe
	21	B.M5-6gx35.58.019 GOST17475-80	10	10	10	Screw
	22	ДОТ.265Ч-01	1	1	1	Sensor
	23	200-3806026	2	2	2	Gasket
	24	6T OST37.001.115-75	4	4	4	Washer
	25	B.M6-6gx10.58.019 GOST 17475-80	4	4	4	Screw
	26	M6-6H.6.019 GOST 5915-70	4	4	4	Nut
	27	PM 14	9	9	9	Washer
	28	PM 10	2	2	-	Washer
	29	240-1111103	1	1	1	Bolt
	30	1220-1101130	2	2	2	Bracket
	30a	925M-1101310	1	1	1	Bracket
	31	16 OT OST37.001.115-75	8	8	8	Washer
	32	M16-6gx75.88.35.019 GOST 7795-70	4	4	4	Bolt
	33	1522-1101125	4	4	4	Pin
	34	3,2x18.019 GOST 397-79	4	4	4	Forelock
	37	1522-1101140	2	2	2	Band
	38	ПР-43-02	6	6	6	Seal YM6a
	39	1522-1101005	2	2	2	Bolt
	40	923-1101140	2	2	2	Band
	42	920-1101160 or 920Б-1101160	1	-	-	Fuel pipeline
		920-1101160-04 or 920Б-1101160-04	-	1	-	Fuel pipeline
	45	ДОТ.680ЧМ-01	1	1	1	Sensor
	46	Д18-051	3	3	2	Bolt
	48	920-1101162	1	1	-	Pipe
	49	1522-1101210	1	1	1	Tank
	50	80-1101067	10	10	10	Washer
	51	КГ 1/8". A12.019 TU 23.1.506-91	1	1	2	Plug
	52	1221-1101492	1	1	1	Coupling
	53	36-1104787	1	1	-	Coupling bolt
	55	920-1101162-09	1	1	1	Fuel pipeline
	56	Clamp with worm thread 12-22	6	6	6	Clamp
	57	Φ80-3407720	6	6	6	Oil pipeline
	58	013-017-25-1-4 GOST 18829-73	1	1	1	Ring
	59	M12-6gx30.88.35.019 GOST 7796-70	8	8	8	Bolt
	60	M16-6gx50.88.35.019 GOST 7795-75	4	4	4	Bolt
	61	12 OT OST 37.001.115-75	8	8	8	Washer

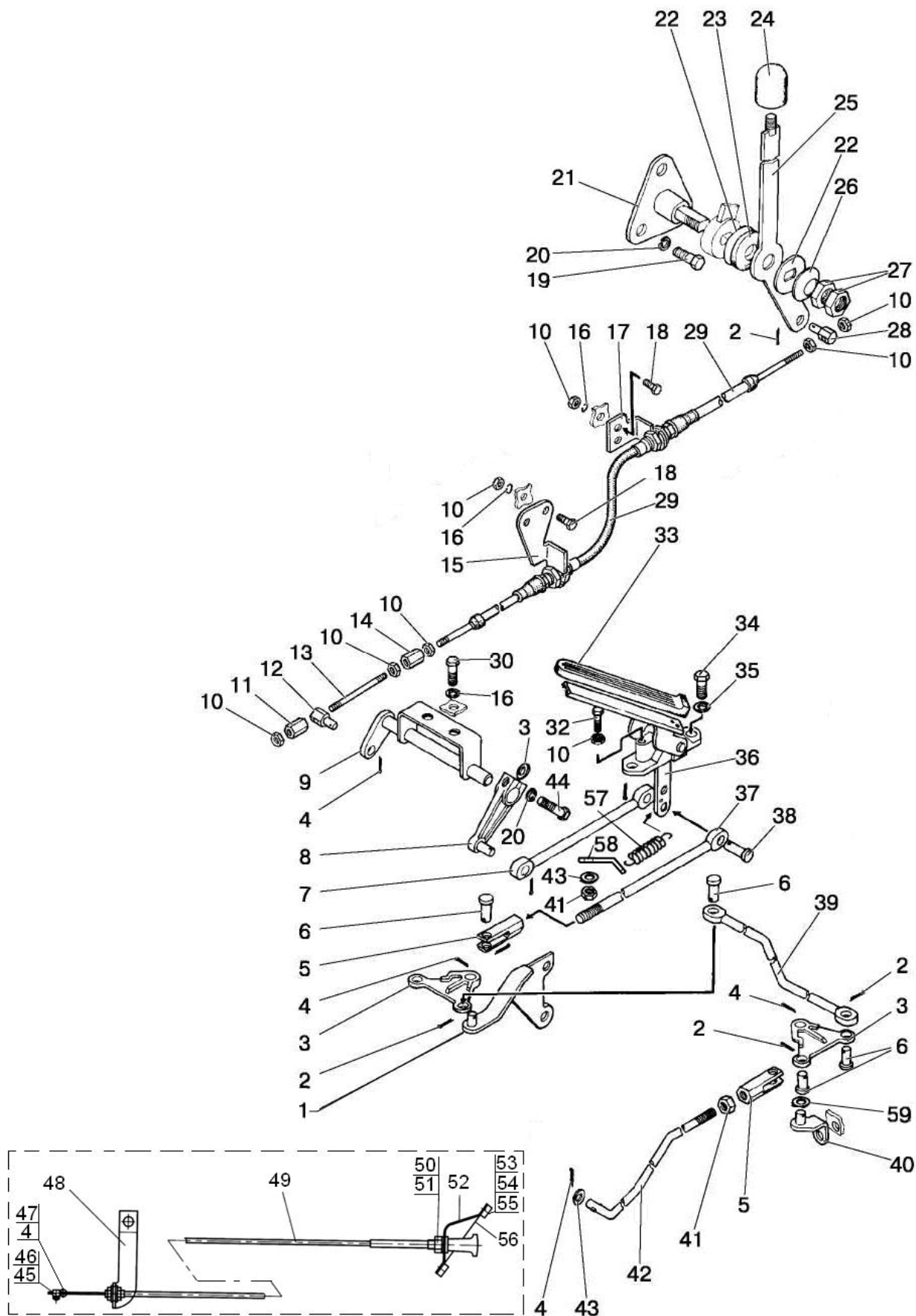


Fig.11.2. Fuel Supply Control (with Hydraulic Lift)

Group 11. Fuel System
Subgroup 1108. Fuel Supply Control (with Hydraulic Lift)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
11.2		1021-1108500		Fuel supply control
	1	80B-1108570	1	Bracket
	2	2x12.019 GOST 397-79	4	Forelock
	3	80B-1108506	2	Lever
	4	3,2x18.019 GOST 397-79	9	Forelock
	5	80B-1108542	2	Rod tip
	6	70-1601109-01	4	Pin (6x22)
	7	80B-1108503	1	Rod
	8	80B-1108365	1	Lever
	9	80B-1108360	1	Shaft
	10	M6-6H.6.019 GOST 5915-70	10	Nut
	11	75-1108333	1	Coupling
	12	600-1108017	1	Lug
	13	75-1108313	1	Stem
	14	75-1108312	1	Coupling
	15	1021-1108509	1	Bracket
	16	6T OST 37.001.115-75	6	Washer
	17	1021-1108508	1	Bracket
	18	M6-6gx20.88.35.019 GOST 7798-70	6	Bolt
	19	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	20	8T OST 37.001.115-75	4	Washer
	21	1221-1108105	1	Bracket
	22	80-1108028	2	Washer
	23	80-1108178	1	Friction washer
	24	A13.11.000	1	Handle
	25	1021-1108350	1	Handle
	26	80B-1108347	1	Disk spring
	27	M14x1,5-6H.6.019 GOST 5915-70	2	Nut
	28	80B-1108317	1	Lug
	29	80B-1108300-A-05	1	Rope
	30	M6-6gx12.88.35.019 GOST 7798-70	2	Bolt
	31	50-1108044	1	Key
	32	M6-6gx30.88.35.019 GOST 7798-70	1	Bolt
	33	A13.36.001	1	Case
	34	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	35	10 OT OST 37.001.115-75	2	Washer
	36	80B-1108510	1	Pedal
	37	80B-1108526-01	1	Rod
	38	8x30 OST 37.001.163-75	1	Pin
	39	1220-1108344-A	1	Rod
	40	800-1108530-A	1	Bracket
	41	M8-6H.6.019 GOST 5915-70	2	Nut
	42	1025-1108541 ¹⁾	1	Rod
		1025-1108541-02 ²⁾		
		1025-1108541-03 ³⁾		
	43	C 8.01.019 GOST 11371-78	2	Washer
	44	M8-6gx25.88.35.019 GOST 7796-70	1	Bolt
	45	B.M4-6gx10.58.019 GOST 17473-80	1	Screw
	46	70-1310441	1	Detent
	47	80-1108317	1	Lug
	48	80-1108126	1	Bracket
	49	80-1108630-A-01	1	Rope
	50	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	51	C 12.01.019 GOST 11371-78	1	Washer

¹⁾ With fuel pump "NZTA"

²⁾ With fuel pump "Motorpal"

³⁾ With fuel pump "RAAZ"

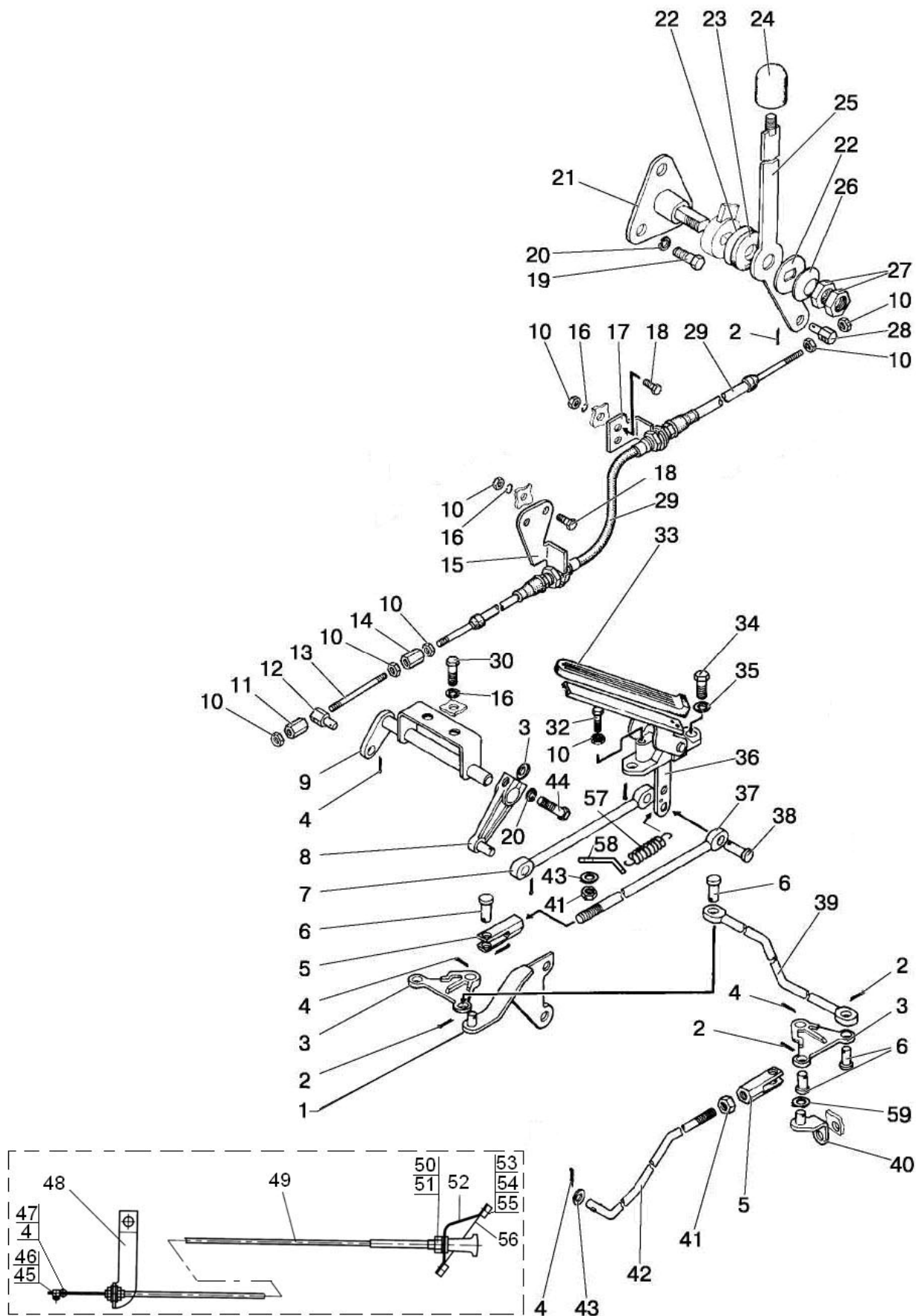
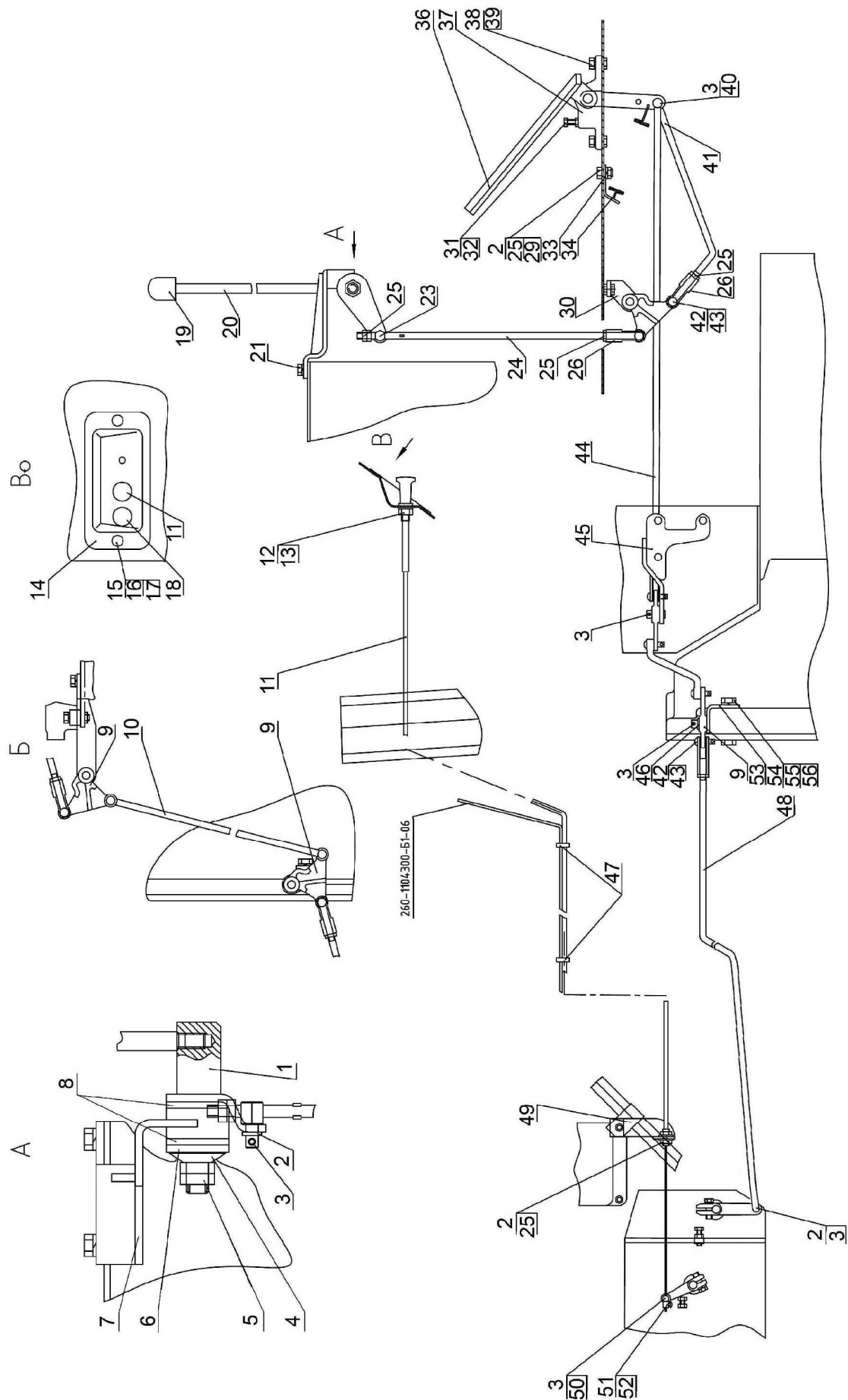


Fig.11.2. Fuel Supply Control (with Hydraulic Lift)

BELARUS**1220.1/1220.3/1220.4****Group 11. Fuel System****Subgroup 1108. Fuel Supply Control (with Hydraulic Lift)**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
11.2	52	80-1024211	1	Board
	53	A30.04.017	2	Cap
	54	M6-6gx12.88.35.019 GOST 7798-70	2	Bolt
	55	6T OST 37.001.115-75	2	Washer
	56	70-3723023	1	Bushing
	57	70-4803019	1	Spring
	58	80B-1108341	1	Plate
	59	C 10.01.019 GOST 11371-78	1	Washer



BELARUS

1220.1/1220.3/1220.4

Subgroup 1108. Fuel Supply Control

Fig.No	Pos.No	Designation	Q-ty	Name
11.3		1221-1108005		Fuel supply control
		1221-1108040		Control (1, 4-8)
	1	1221-1108035	1	Shaft
	2	C 8.01.019 GOST 11371-78	4	Washer
	3	3,2x18.019 GOST 397-79	7	Forelock
	4	80B-1108347	2	Disk spring
	5	M14x1,5-6H.04.019 GOST 5916-70	2	Nut
	6	822-1108028	1	Washer
	7	1221-1108020	1	Bracket
	8	80-1108178	2	Friction washer
	9	80B-1108506	3	Lever
	10	1220-1108344-A	1	Rod
	11	80-1108630-A-01	1	Rope
	12	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	13	C 12.01.019 GOST 11371-78	1	Washer
	14	80-1024211	1	Board
	15	A30.04.017	2	Cap
	16	M6-6gx12.88.35.019 GOST 7798-70	2	Bolt
	17	6T OST 37.001.115-75	6	Washer
	18	70-3723023	1	Bushing
	19	A13.11.000	1	Handle
	20	922-1108146	1	Stem
	21	M8-6gx25.88.35.019 GOST 7796-70	2	Bolt
	23	70-1108317	1	Lug
	24	1221-1108073	1	Rod
	25	M8-6H.6.019 GOST 5915-70	10	Nut
	26	80B-1108542 or 80B-1108542-A	10	Tip
	29	8T OST 37.001.115-75	3	Washer
	30	1221-1108045	1	Bracket
	31	M6-6gx30.88.35.019 GOST 7798-70	1	Bolt
	32	M6-6H.6.019 GOST 5915-70	1	Nut
	33	80B-1108341	1	Plate
	34	70-4803019	1	Spring
	36	A13.36.001	1	Case
	37	80B-1108510	1	Pedal
	38	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	39	10 OT OST 37.001.115-75	2	Washer
	40	8x30 OST 37.001.163-97	1	Pin
	41	1221-1108029	1	Rod
	42	70-1601109-01 or 6x22 OST 37.001.163-97	6	Pin
	43	2x12.019 GOST 397-79	6	Forelock
	44	80B-1108526	1	Rod
	45	80B-1108545	1	Bracket
	46	C 10.01.019 GOST 11371-78	1	Washer
	47	80-3723045	2	Collar
	48	1025-1108541 ¹⁾	1	Rod
		1025-1108541-02 ²⁾		
		1025-1108541-03 ³⁾		
	49	80-1108126	1	Bracket
	50	80-1108317	1	Lug
	51	70-1310441	1	Detent
	52	B.M4-6gx10.58.019 GOST 17473-80	1	Screw
	53	800-1108530-A	1	Bracket
	54	M12-6gx75.88.35.019 GOST 7795-70	1	Bolt
	55	M12-6H.6.019 GOST 5915-70	1	Nut
	56	12 OT OST 37.001.115-75	1	Washer

¹⁾ With fuel pump "NZTA"

²⁾ With fuel pump "Motorpal"

³⁾ With fuel pump "RAAZ"

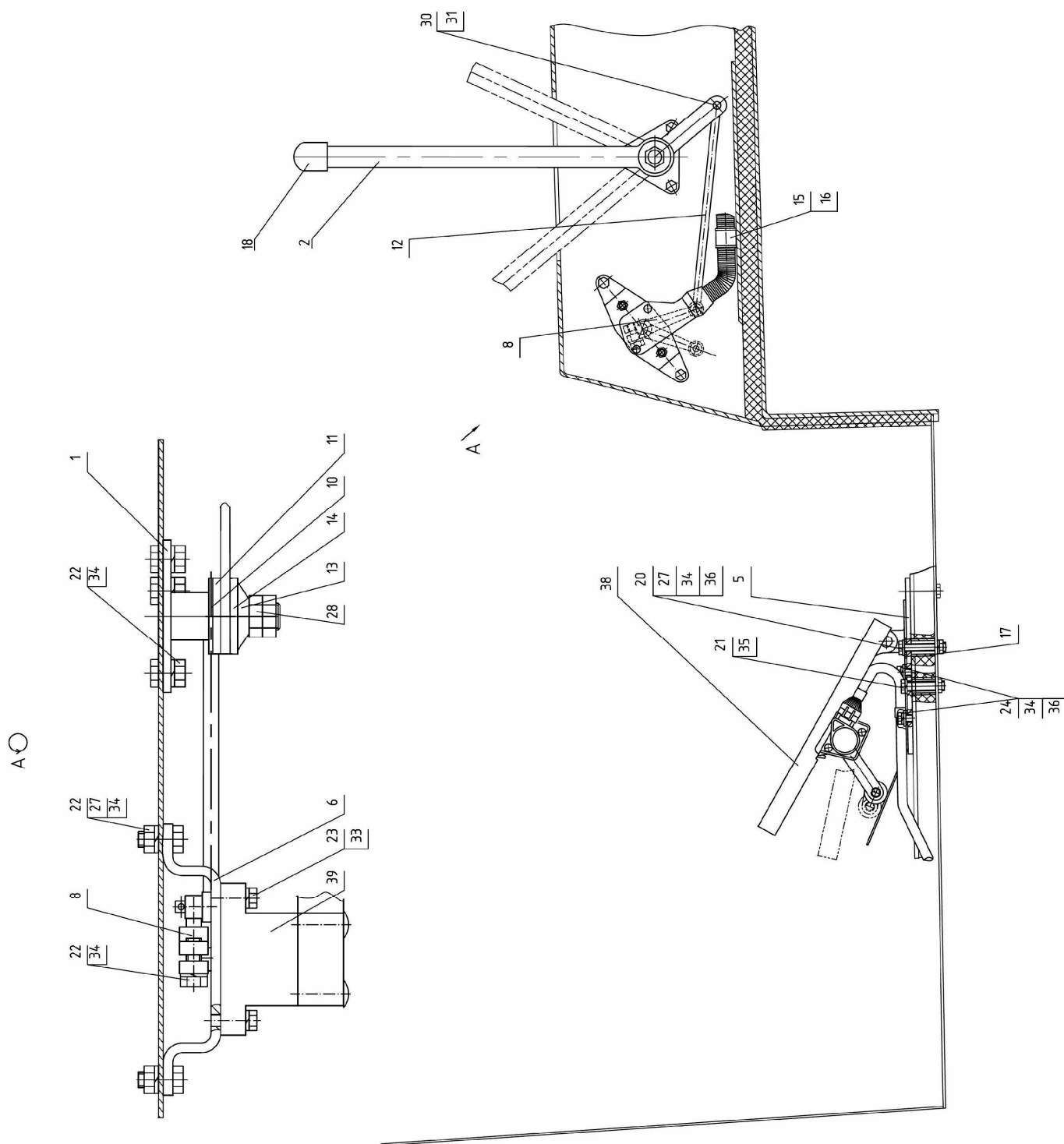


Fig.11.4 Fuel Supply Control

BELARUS
1220.1/1220.3/1220.4

Group 11. Fuel System
Subgroup 1108. Fuel Supply Control

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
11.4		1221.4-1108000	1	Fuel supply control
	1	1221-1108105	1	Bracket
	2	1221-1108350	1	Handle
	5	1221.4-1108004	1	Plate
	6	1221.4-1108007	1	Bracket
	8	3022-1108003	1	Lever
	10	80-1108028	1	Washer
	11	80-1108178	1	Friction washer
	12	80B-1108344	1	Rod
	13	80B-1108347	1	Disk spring
	14	822-1108028	1	Washer
	15	70-1115012	1	Clamp
	16	70-3506027	1	Bushing
	17	2522-6702066-01	2	Bushing
	18	A13.11.000	1	Handle
	20	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	21	M10-6gx45.88.35.019 GOST 7795-70	1	Bolt
	22	M8-6gx25.88.35.019 GOST 7796-70	6	Bolt
	23	M6-6gx25.88.35.019 GOST 7798-70	2	Bolt
	24	M8-6gx14.88.35.019 GOST 7798-70	2	Bolt
	27	M8-6H.6.019 GOST 5915-70	3	Nut
	28	M14x1,5-6H.04.019 GOST 5916-70	2	Nut
	30	2x12.019 GOST 397-79	2	Forelock
	31	6x22 OST 37.001.163-75	2	Pin
	33	6T OST 37.001.115-75	2	Washer
	34	8T OST 37.001.115-75	9	Washer
	35	10 OT OST 37.001.115-75	1	Washer
	36	C 8.01.019 GOST 11371-78	3	Washer
	38	1108.02	1	Electronic pedal
	39	1108.03	1	Manual control sensor

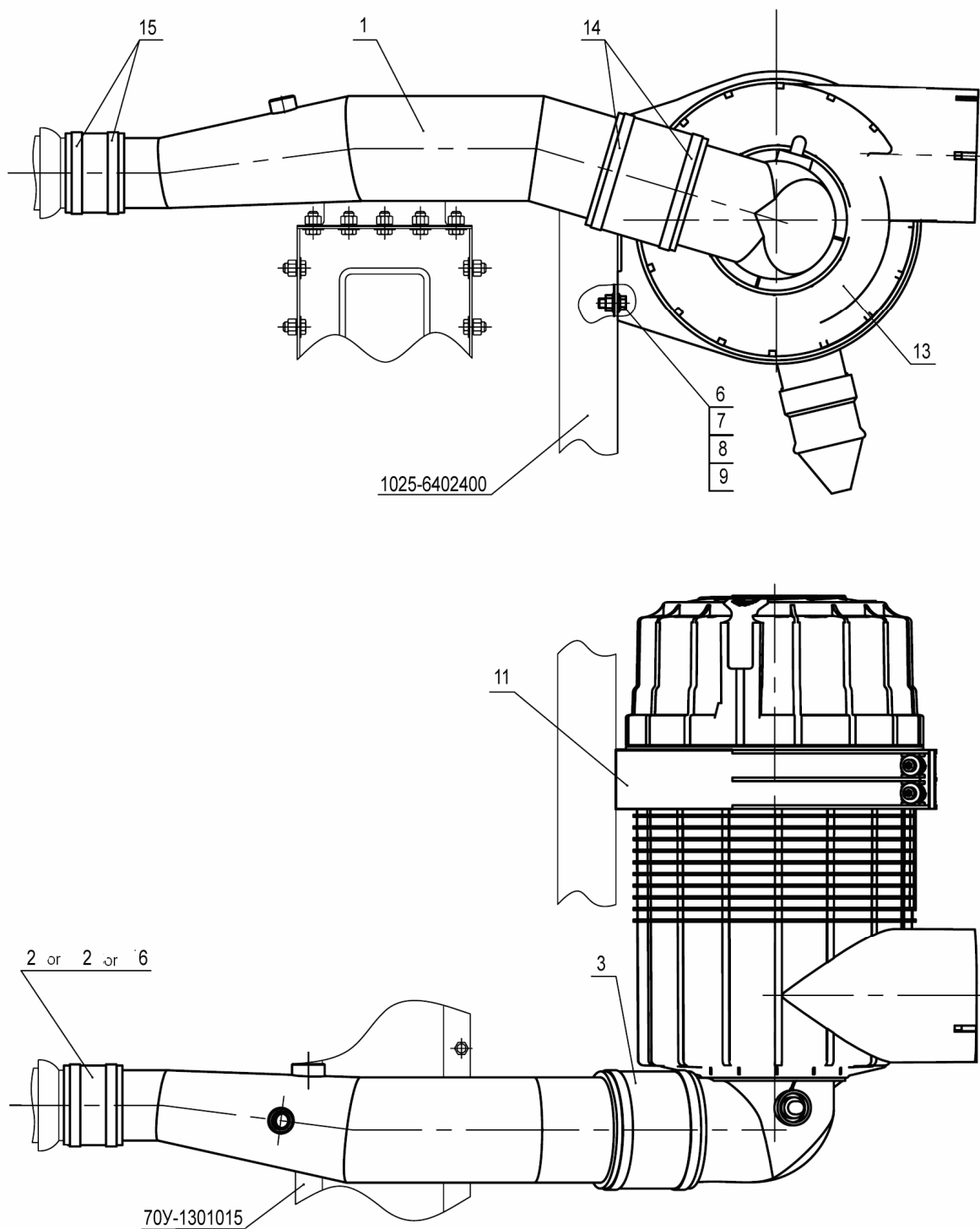


Fig.11.5. Air Cleaner "Donaldson" (D-245.2S2)

BELARUS **1220.1/1220.3/1220.4**

Group 11. Fuel System **Subgroup 1109. Air Cleaner "Donaldson"** for Tractors "BELARUS-1220.1/1220.3" (D-245.2S2)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
11.5	1	1025-1109010	1	Pipe
	2	1025-1109006	1	Tube (can be replaced against pos. 12 or 16)
	3	245-1008029	1	Tube
	6	M8-6gx25.88.35.019 GOST 7796-70	2	Bolt
	7	M8-6H.6.019 GOST 5915-70	2	Nut
	8	C8.01.019 GOST 6958-78	4	Washer
	9	8T OST 37.001.115-75	2	Washer
	11	P78-0532	1	Bracket
	12	"Sico Rubena"270 003 151-A TU TPD 282	1	Silicon tube (can be replaced against pos. 2 or 16)
	13	FPG 09-0219	1	Air filter (Donaldson)
	14	"NORMA" TORRO 90-110/9-C6W	2	Clamp
	15	"NORMA" TORRO 70-90/9-C6W	2	Clamp
	16	PR001-60-80-PES	1	Heat-resistant tube (can be replaced against pos. 2 or 12)

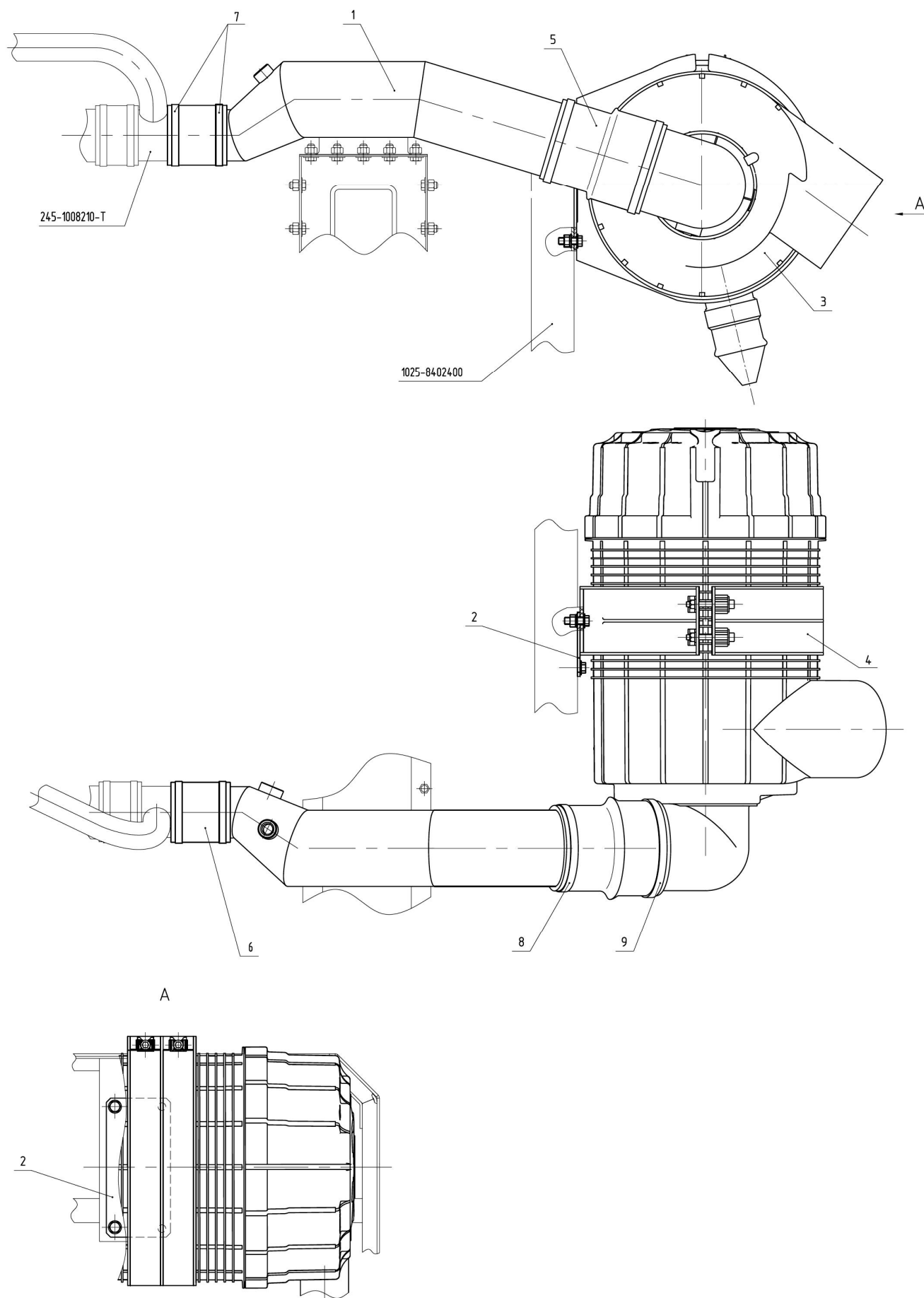


Fig.11.6. Cleaner "Donaldson" (D-245.2S3A or D-245.2S3AM)

BELARUS **1220.1/1220.3/1220.4**

Group 11. Fuel System **Subgroup 1109. Air Cleaner "Donaldson"** for Tractors "BELARUS-1220.4" (D-245.2S3A and D-245.2S3AM)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
11.6	1	1025-1109030	1	Pipe
	2	1220.4-1109011	1	Plate
	3	FPG 100317	1	Air filter
	4	P780594	1	Fixing strap
	5	P101292	1	Hose-part
	6		1	Silicon tube 60x80 red
	7		1	Clamp with worm thread 60-80
	8		1	Clamp with worm thread 90-110
	9		1	Clamp with worm thread 100-120

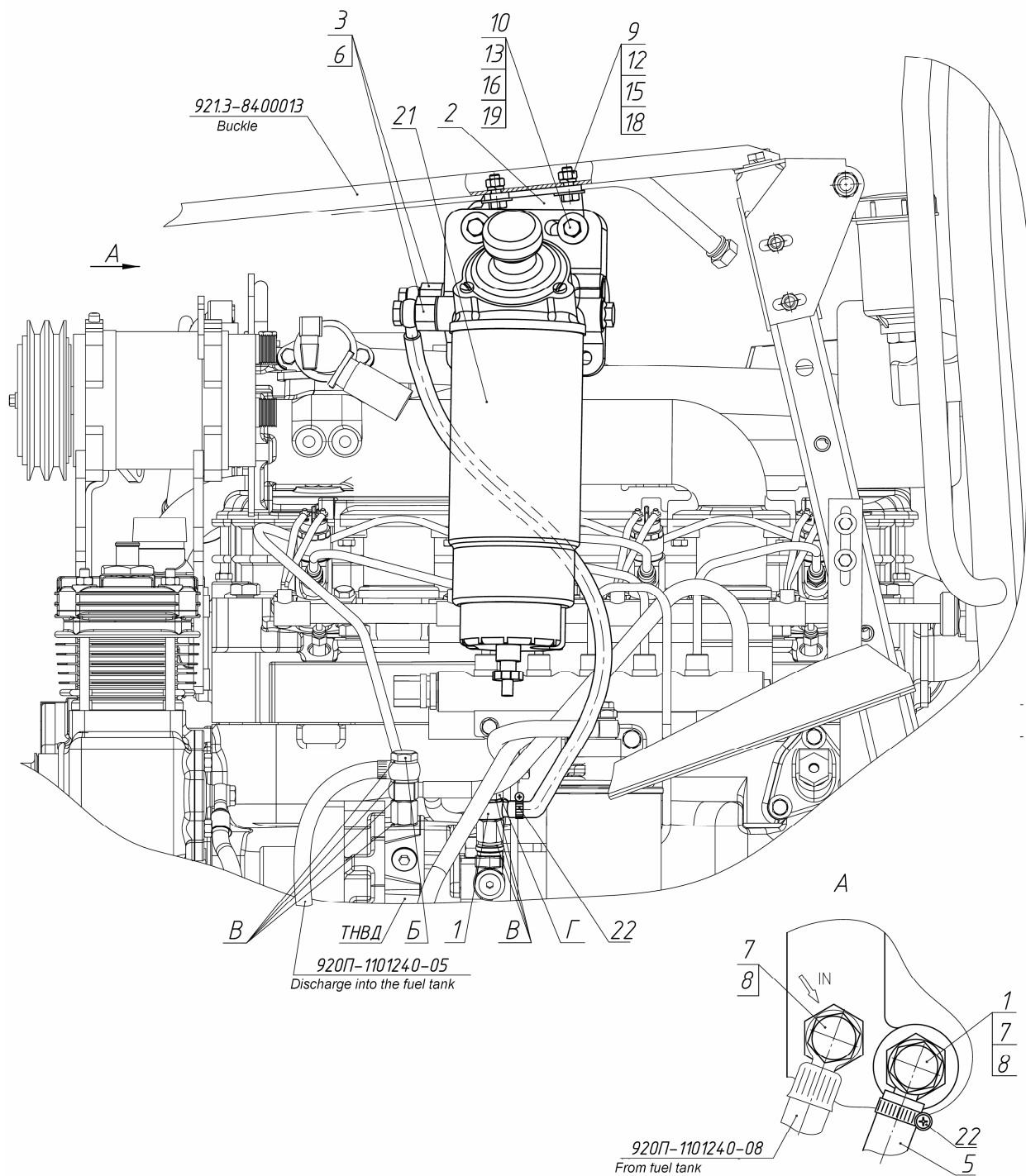


Fig. 11.7. Fuel Filter Assembly

BELARUS
1220.1/1220.3/1220.4

Group 11. Fuel System
Subgroup 1117. Fuel Filter assembly

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
11.7		922-1117100-01		Fuel filter assembly
	1	Φ80-3407720	2	Oil pipeline
	2	922-1117112	1	Bracket
	3	1221-1101492	2	Coupling
	5	920-1101162-02	1	Pipe
	7	Д18-051	2	Bolt
	8	4600.18	4	Washer PM14
	9	M10-6gx65.88.35.019 GOST 7795-70	2	Bolt
	10	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	12	M8-6H.6.019 GOST 5915-70	2	Nut
	13	M10-6H.6.019 GOST 5915-70	2	Nut
	15	C 8.01.019 GOST 6958-78	2	Washer
	16	C 10.01.019 GOST 6958-78	2	Washer
	18	8T OST 37.001.115-75	2	Washer
	19	10 OT OST 37.001.115-75	2	Washer
	21	420 66 606 62 983	1	Coarse filter PreLine
	22	"NORMA" TORRO 12-20/9-C6W	2	Clamp
	24	4600.19	2	Washer PM3/8

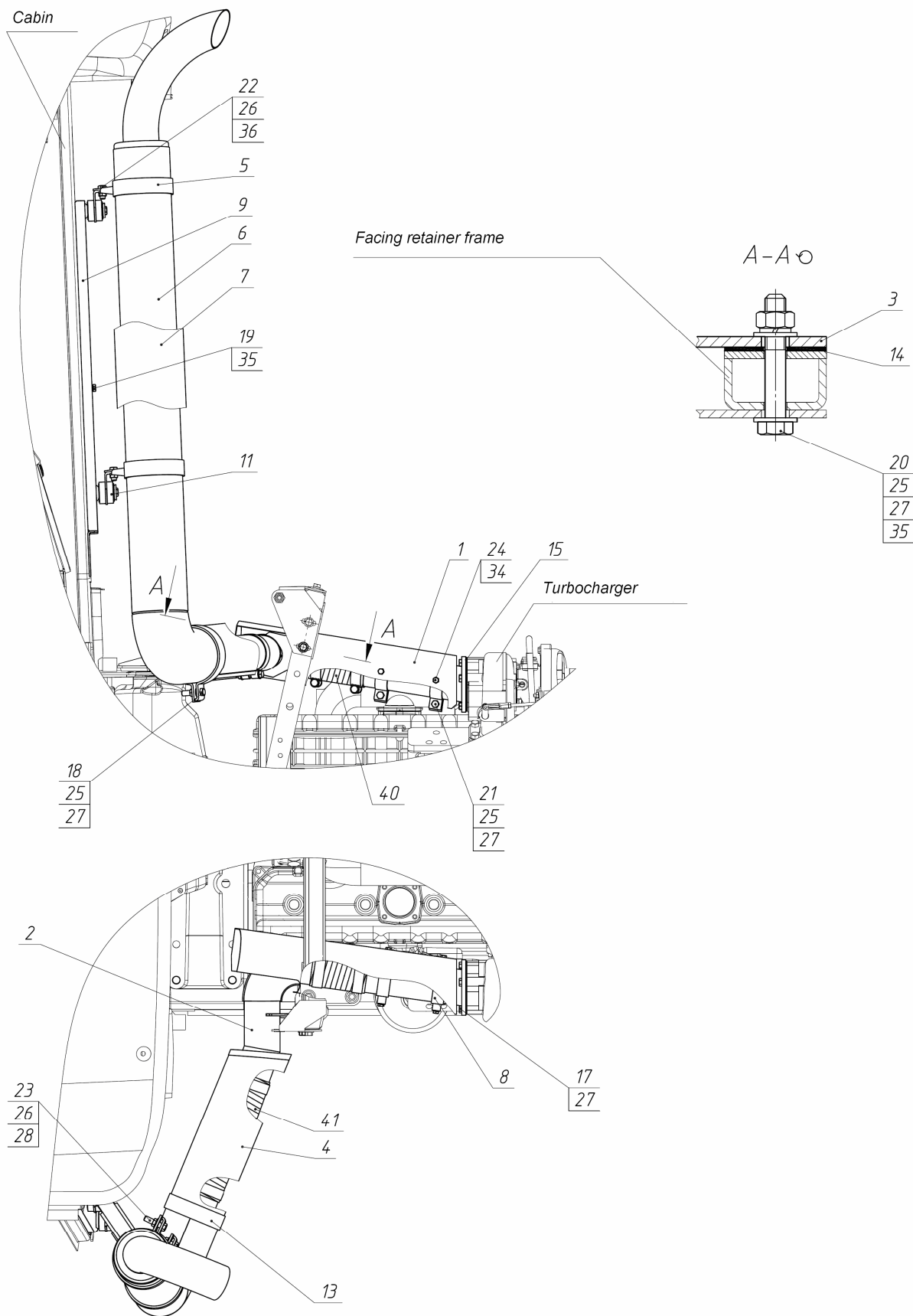


Fig. 12.1. Muffler assembly

BELARUS
1220.1/1220.3/1220.4

Group 12. Gas Exhaust System
Subgroup 1205. Muffler

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
12.1		1220.1-1205005	1	Muffler assembly
	1	1220.1-1205010-B	1	Guard
	2	1220.1-1205040	1	Tube
	4	1021.4-1205020	1	Guard
	5	1021.4-1205040	2	Clamp
	6	1021.4-1205100-B	1	Exhaust pipe
	7	1021.4-1205600	1	Guard assembly
	8	1221.4-1205030	2	Clamp
	9	1221.4-1205040	1	Bracket
	11	2022-1205500	2	Damper
	13	1220.1-1205003	1	Joke
	14	1220.1-1205004	1	Gasket
	15	921-1205004	1	Gasket
	17	265-1205028-01	4	Bolt
	18	M8-6gx40.88.35.019 GOST 7795-70	1	Bolt
	19	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	20	M8-6gx50.88.35.019 GOST 7795-70	1	Bolt
	21	M8-6gx30.88.35.019 GOST 7795-70	2	Bolt
	22	M10-6gx20.88.35.019 GOST 7796-70	2	Bolt
	23	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	24	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	25	M8-6H.6.019 GOST 5915-70	4	Nut
	26	M10-6H.6.019 GOST 5915-70	4	Nut
	27	C 8.01.019 GOST 11371-78	9	Washer
	28	C 10.01.019 GOST 11371-78	2	Washer
	34	6T OST 37.001.115-75	4	Washer
	35	8T OST 37.001.115-75	2	Washer
	36	10 OT OST 37.001.115-75	2	Washer
	40	000.4859.21.000-70-100	1	Metallic hose
	41	000.4859.21.000-70-300	1	Metallic hose

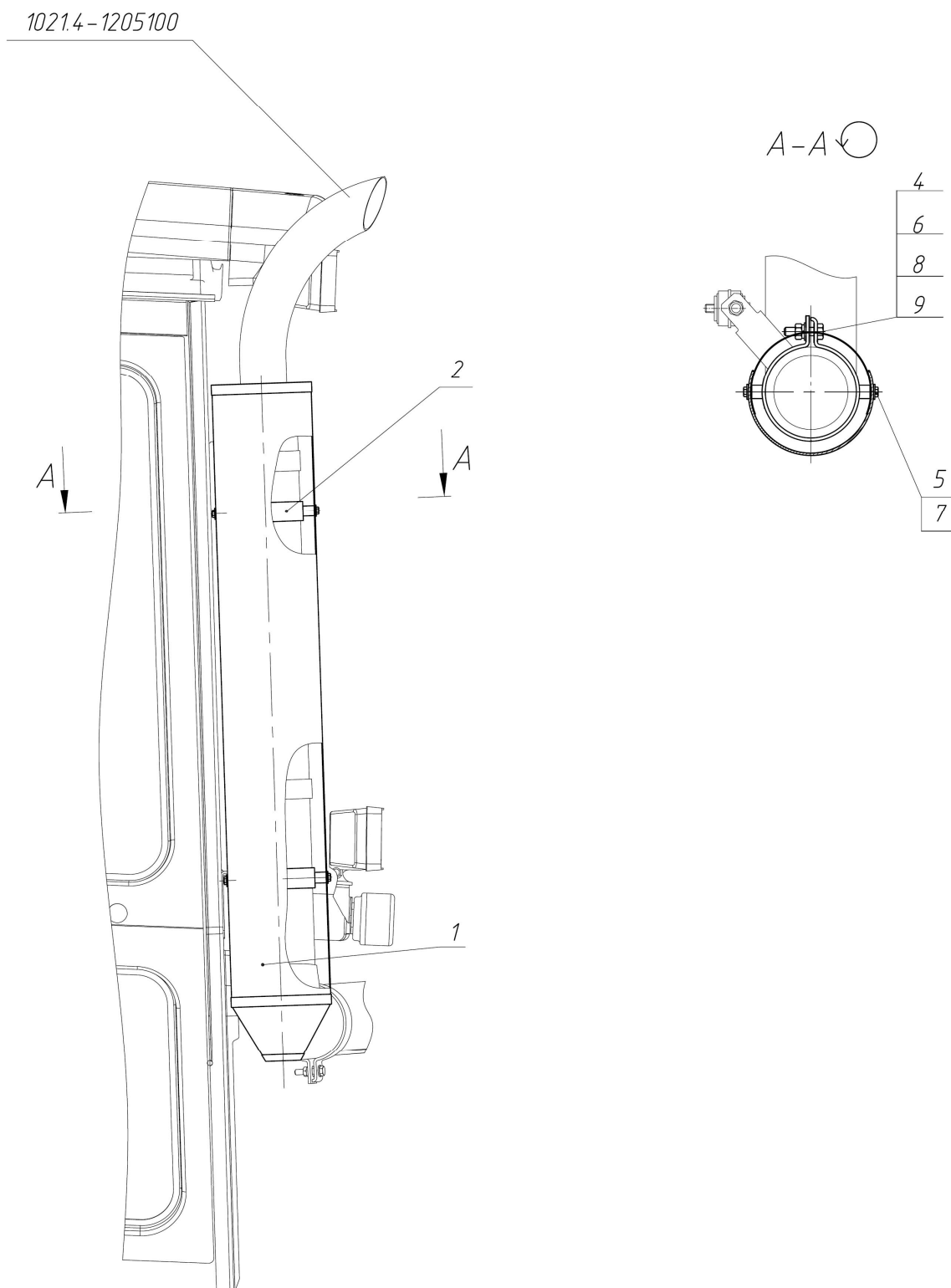


Fig. 12.2. Muffler

BELARUS**1220.1/1220.3/1220.4****Group 12. Gas Exhaust System****Subgroup 1205. Muffler**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
12.2		1021.4-1205600	1	Guard assembly
	1	1021.4-1205650	1	Muffler guard
	2	2022-1205620	2	Clamp
	3	1021.4-1205601	1	Screen
	4	M8-6gx45.88.35.019 GOST 7795-70	2	Bolt
	5	M6-6gx10.88.35.019 GOST 7795-70	4	Bolt
	6	M8-6H.6.019 GOST 5915-70	2	Nut
	7	C 6.01.019 GOST 6958-78	4	Washer
	8	C 8.01.019 GOST 11371-78	2	Washer
	9	8T OST 37.001.115-75	2	Washer

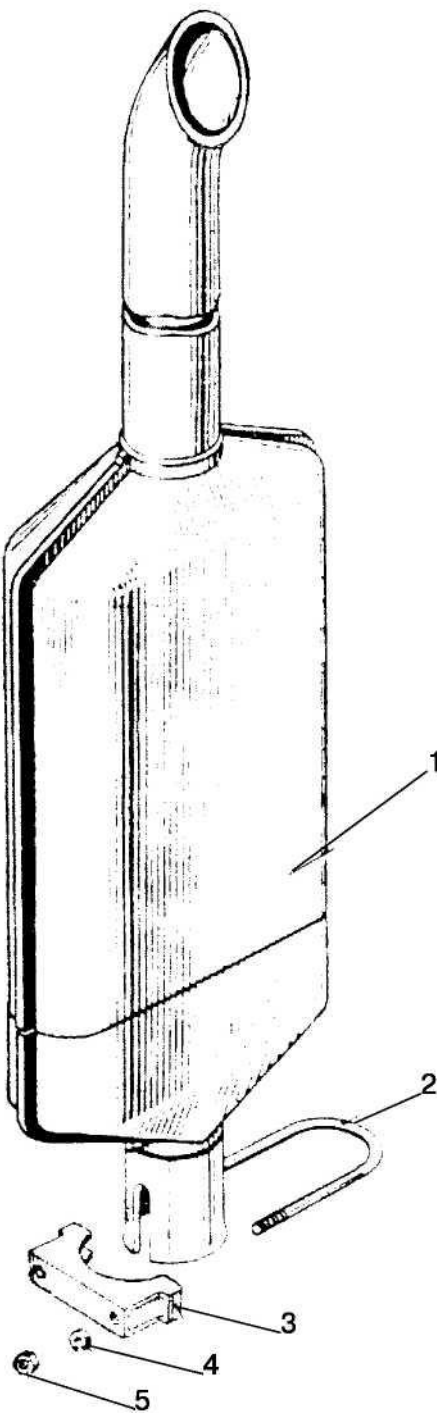


Fig. 12.3. Muffler

BELARUS

1220.1/1220.3/1220.4

Group 12. Gas Exhaust System

Subgroup 1205. Muffler

Fig.No	Pos.No	Designation	Q-ty	Name
12.3		245-1205015	1	Muffler (1-5)
		245-1205130	1	Clamp (2-5)
	1	245-1205020	1	Muffler
	2	245-1205131	1	Joke
	3	245-1205132	1	Clamp
	4	C 10.01.019 GOST 11371-78	2	Washer
	5	80-1205136	2	Nut

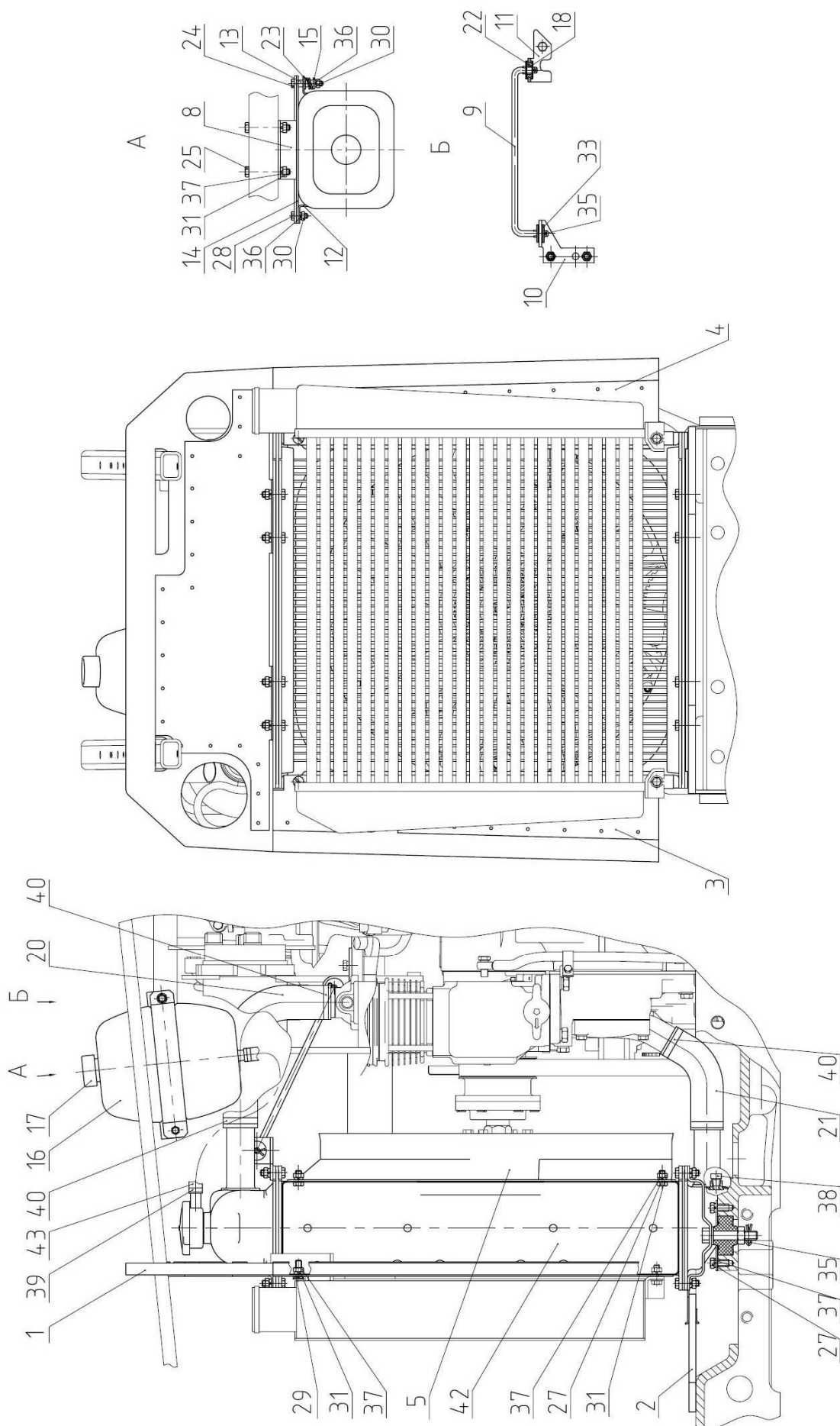


Fig. 13.1. Cooling Unit

BELARUS
1220.1/1220.3/1220.4

Group 13. Cooling System
Subgroup 1301. Cooling Unit

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
13.1		952.4-1301009	1	Cooling unit
	1	952.4-1301310	1	Seal
	2	952.4-1301320	1	Seal
	3	952.4-1301330	1	Seal
	4	952.4-1301330-01	1	Seal
	5	70-1309080	1	Fan casing
	8	952.4-1311001	1	Bracket
	9	1025-1302003-B	1	Brace
	10	1520-1302072	1	Bracket
	11	80-1302011	1	Bracket
	12	80-1311002	1	Clamp
	13	80-1311003	1	Bushing
	14	80-1311004	1	Plate
	15	80-1311006	1	Disk
	16	80П-1311010-A	1	Expansion tank
	17	80П-1311011	1	Plug
	18	85-1302071	2	Shock absorber
	20	85-1303001	1	Hose
	21	85-1303010	1	Hose
	22	90-1302004	2	Pipe
	23	54.06.413	1	Spring
	24	M6-6gx40.88.35.019 GOST 7795-70	1	Bolt
	25	M8-6gx55.88.35.019 GOST 7795-70	2	Bolt
	27	M8-6gx16.88.35.019 GOST 7796-70	8	Bolt
	28	M6-6gx16.88.35.019 GOST 7798-70	1	Bolt
	29	B.M8-6gx25.58.019 GOST 17475-80	2	Screw
	30	M6-6H.6.019 GOST 5915-70	2	Nut
	31	M8-6H.6.019 GOST 5915-70	8	Nut
	33	C 8.01.019 GOST 6958-78	4	Washer
	35	3,2x18.019 GOST 397-79	4	Forelock
	36	6T OST 37.001.115-75	2	Washer
	37	8T OST 37.001.115-75	12	Washer
	38	КГ 1/4". A12.019 TU 23.1.506-91	1	Plug
	39	5000.02	2	Clamp with worm thread 16-27
	40	5000.05	4	Clamp with worm thread 35-50
	42	1025.13.01.010 Б	1	Water radiator
	43	14x23-1,6 GOST 10362-76	400	Hose

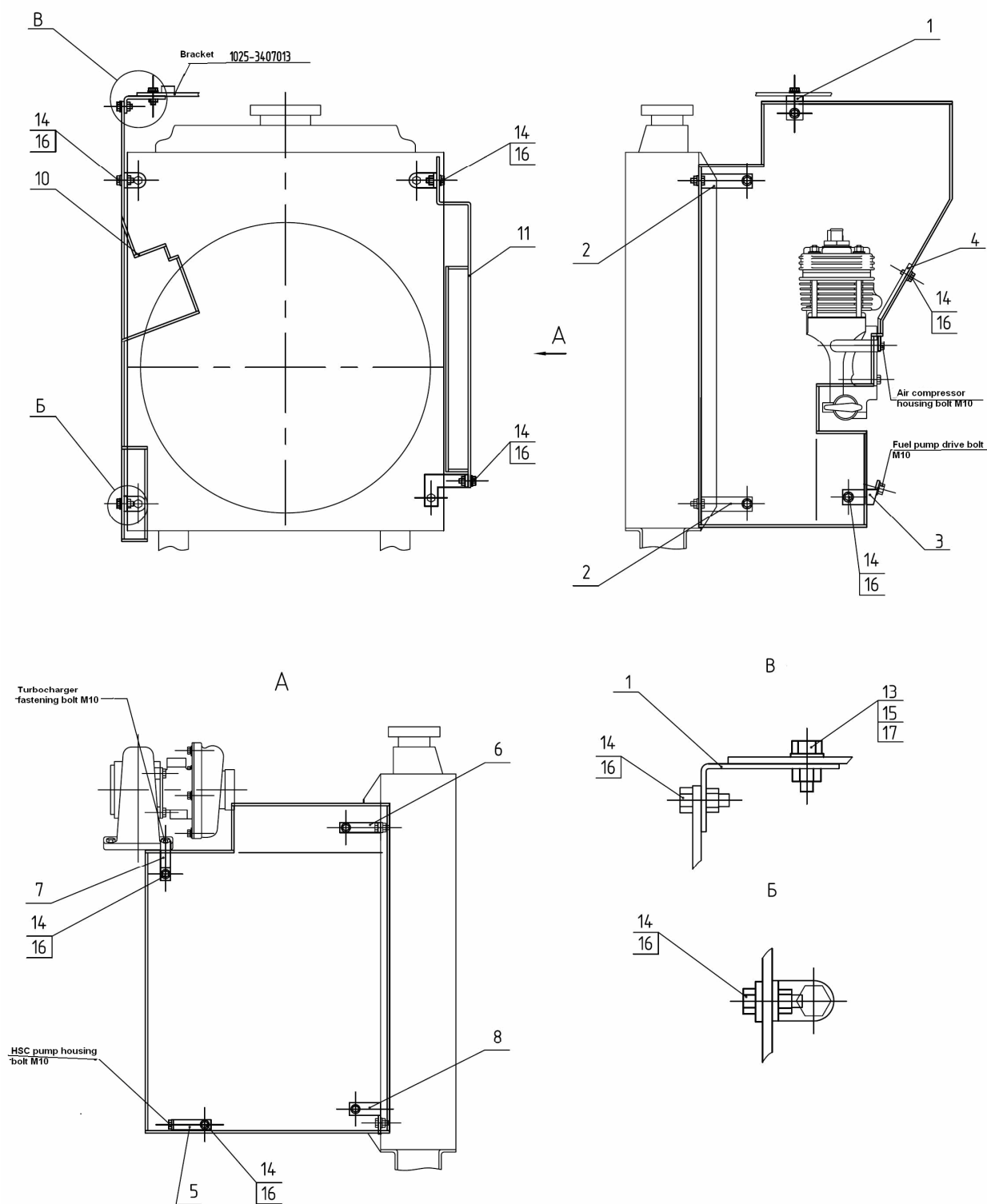


Fig.13.2 Fan Guard

BELARUS**1220.1/1220.3/1220.4****Group 13. Cooling System
Subgroup 1309. Fan Guard**

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

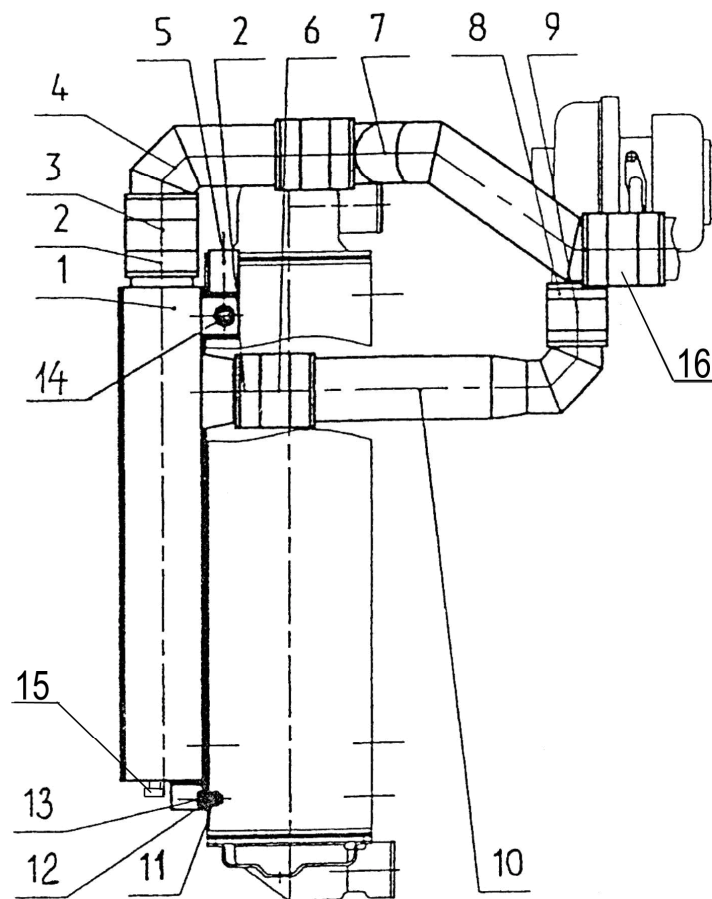


Fig.13.3 Cooler Assembly

BELARUS**1220.1/1220.3/1220.4**

Group 13. Cooling System
Subgroup 1317. Cooler Assembly

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

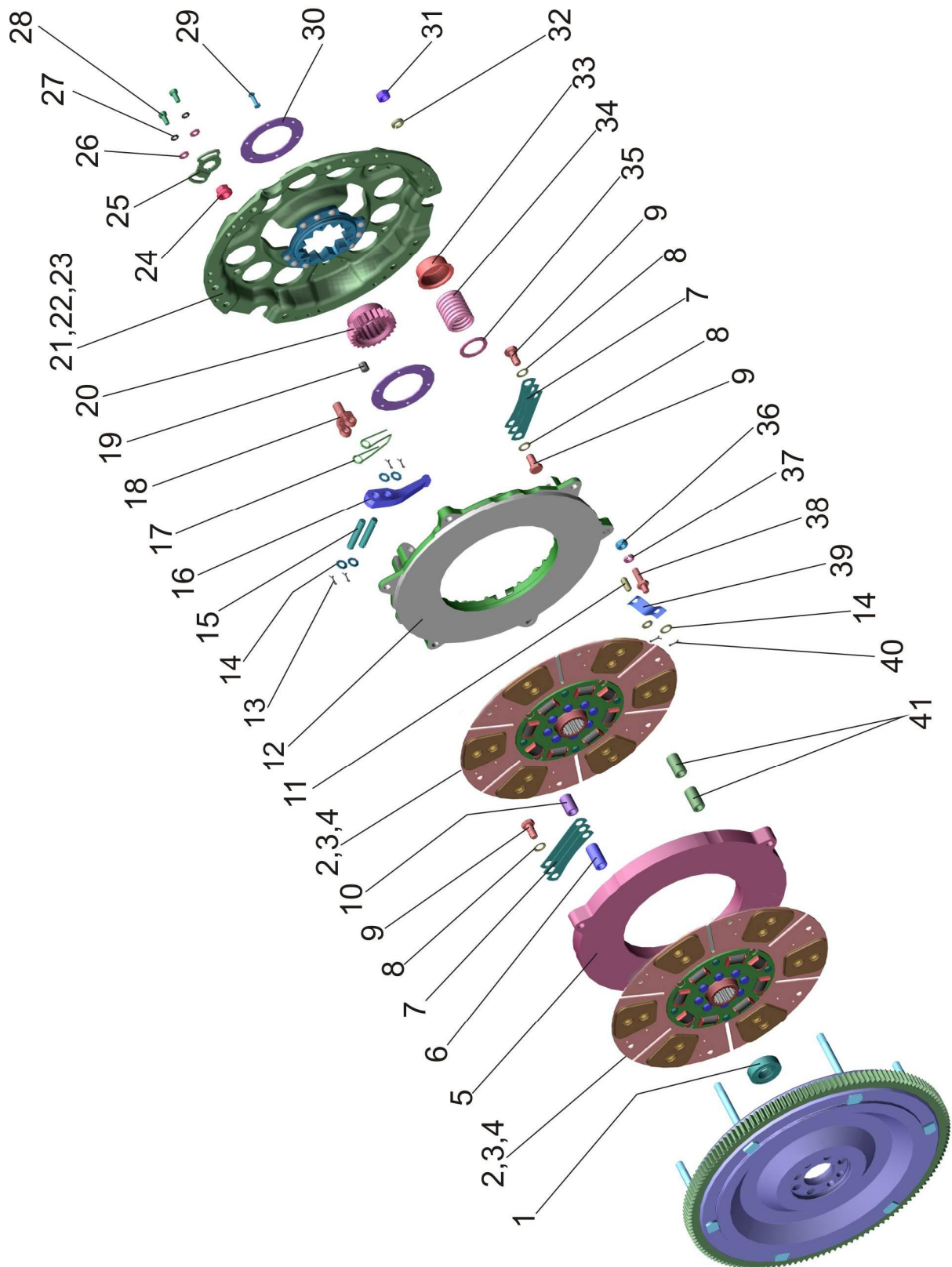


Fig. 16.1. Clutch Assembly

Group 16. Clutch
Subgroup 1601. Clutch

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
16.1		245-1005009-E-02	1	Clutch assembly (1-41)
		85-1601090-E	1	Clutch disk (11-40)
		85-1601085	1	Intermediate disk (4, 7-9)
		1522-1601120	1	Backing plate (19-21, 29, 30)
	1	180205K1C17 GOST 8882-75	1	Bearing
	2	80-1601130-A	2	Driven disk assembly (engages pos. 3, 4)
	3	566528	12	Segment GBV 156400 (7650861d) (enclosed into 1)
	4	566529	12	Rivet TT2 7050914 (enclosed into 1)
	5	85-1601092	1	Intermediate disk
	6	85-1601071	3	Bushing
	7	85-1601124	18	Plate
	8	85-1601121	9	Washer
	9	85-1601126	9	Bolt
	10	85-1601073	3	Bushing
	11	85-1601054	3	Pin
	12	85-1601093-E	1	Pressure disk
	13	3,2x18.019 GOST 397-79	12	Forelock
	14	85-1601108	18	Washer
	15	85-1601096	6	Pin
	16	85-1601094	3	Release lever
	17	85-1601083	3	Spring
	18	85-1601097	3	Fork
	19	70-1601091	12	Damper
	20	70-1601053	1	Bushing
	21	1522-1601125	1	Backing plate (engages pos. 22, 23)
	22	1522-1601051	1	Hub (enclosed into pos. 21)
	23	8x22.01 GOST 10299-80	9	Rivet (engages pos. 21)
	24	85-1601109-A	3	Adjusting nut
	25	85-1601086	3	Lock washer
	26	C 8.01.019 GOST 11371-78	6	Washer
	27	8T OST 37.001.115-75	6	Washer
	28	M8-6gx16.88.35.019 GOST 7796-70	6	Bolt
	29	6x30.01 GOST 10299-80	6	Rivet
	30	1522-1601062	2	Washer
	31	M12x1,25-6H.6.019 GOST 5915-70	9	Nut
	32	12 OT OST 37.001.115-75	9	Washer
	33	85-1601072-E	6	Cage
	34	85-1601115	6	Spring
	35	85-1601118-E	6	Insulating washer
	36	M10-6H.6.019 GOST 5915-70	3	Nut
	37	10 OT OST 37.001.115-75	3	Washer
	38	85-1601129	3	Thrust
	39	85-1601112	3	Plate
	40	2x16.019 GOST 397-79	6	Forelock
	41	70-1601074	6	Bushing

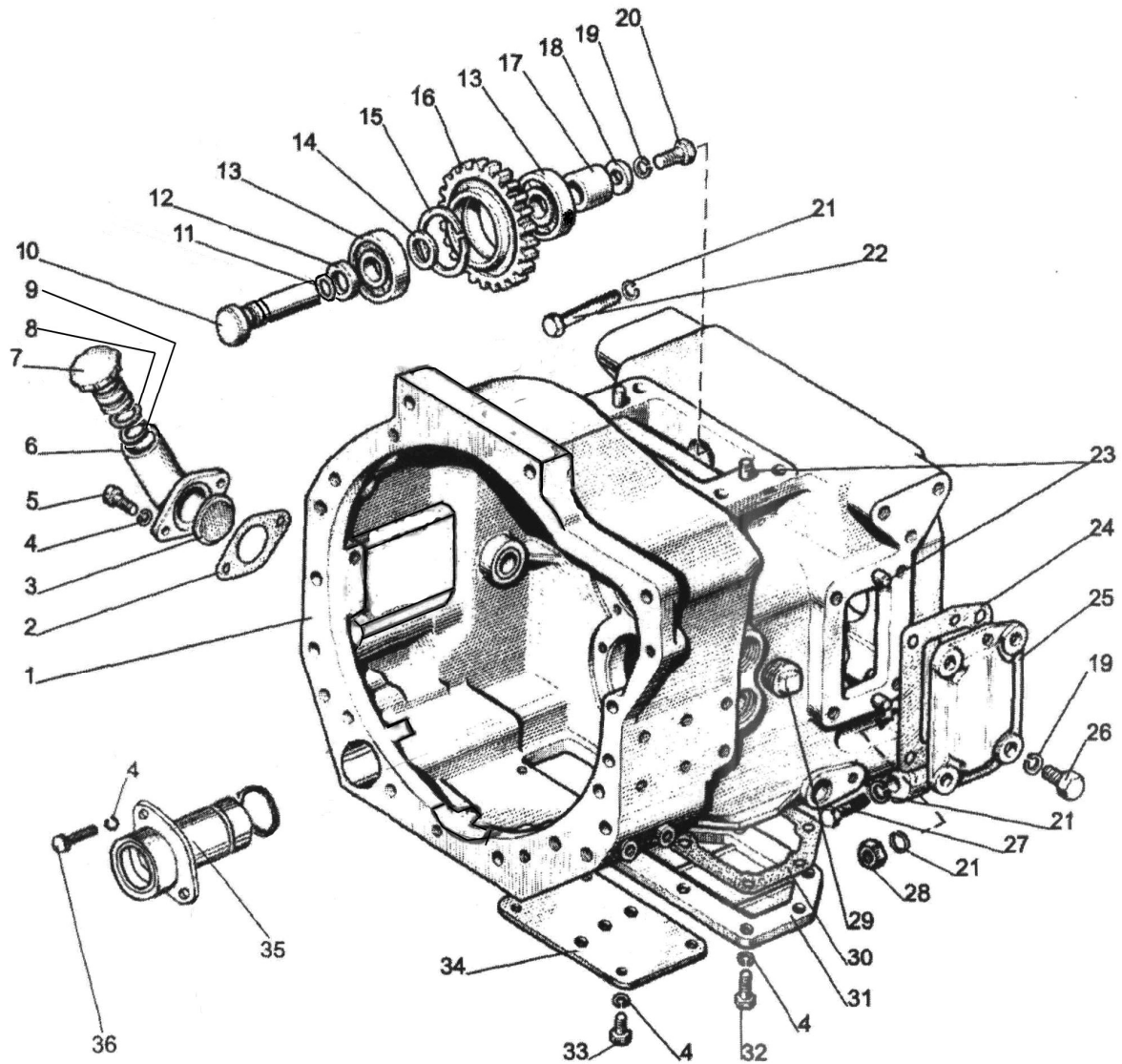


Fig. 16.2. Clutch Housing

Group 16. Clutch
Subgroup 1601. Clutch Housing

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
16.2		80-1600010-03 ¹⁾	1	Clutch housing (1-20, 23-26, 29-34)
		80-1600010-08 ²⁾	1	Clutch housing (1-20, 23-26, 29-34)
		70-1601330	1	Gear (13-16)
		240-1002115	1	Throat (6-9)
		A19.01.100	1	Cover (7, 8)
	1	80-1601015	1	Housing
	2	240-1002082-A	1	Gasket
	3	240-1002085	1	Net
	4	8T OST 37.001.115-75	15	Washer
	5	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	6	240-1002088-B	1	Tube
	7	A19.01.001	1	Plug
	8	042-048-30-2-1 GOST 18829-73/ GOST 9833-73	1	Ring
	9	A19.01.003	1	Spring ring
	10	80-1601335	1	Axis
	11	020-025-30-1-4 GOST 18829-73/ GOST 9833-73	1	Ring
	12	80-1601337	1	Washer
	13	305A GOST 8338-75	2	Bearing
	14	70-1601333	1	Ring
	15	C62 GOST 13943-86	1	Ring
	16	70-1601331	1	Gear
	17	80-1601336	1	Bushing
	18	80-1601334	1	Thrust washer
	19	12 OT OST 37.001.115-75	5	Washer
	20	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	21	20 OT OST 37.001.115-75	6	Washer
	22	70-4605036-03	1	Bolt
	23	ШЦК 10x25	4	Pin
	24	80-1601343	1	Gasket
	25	80-1601342	1	Cover
	26	M12-6gx30.88.35.019 GOST 7796-70	4	Bolt
	27	70-4605036	4	Bolt
	28	M20-6H.6.019 GOST 5915-70	1	Nut
	29	ПК КГ 1 1/4"	1	Plug
	30	80-1601314	1	Gasket
	31	80-1601313	1	Cover
	32	M8-6gx25.88.35.019 GOST 7796-70	7	Bolt
	33	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	34	50-1601341	1	Cover
	35	86-1802015-B	1	Yoke
	36	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt

¹⁾ With GB 16F+8R

²⁾ With GB 24F+12R

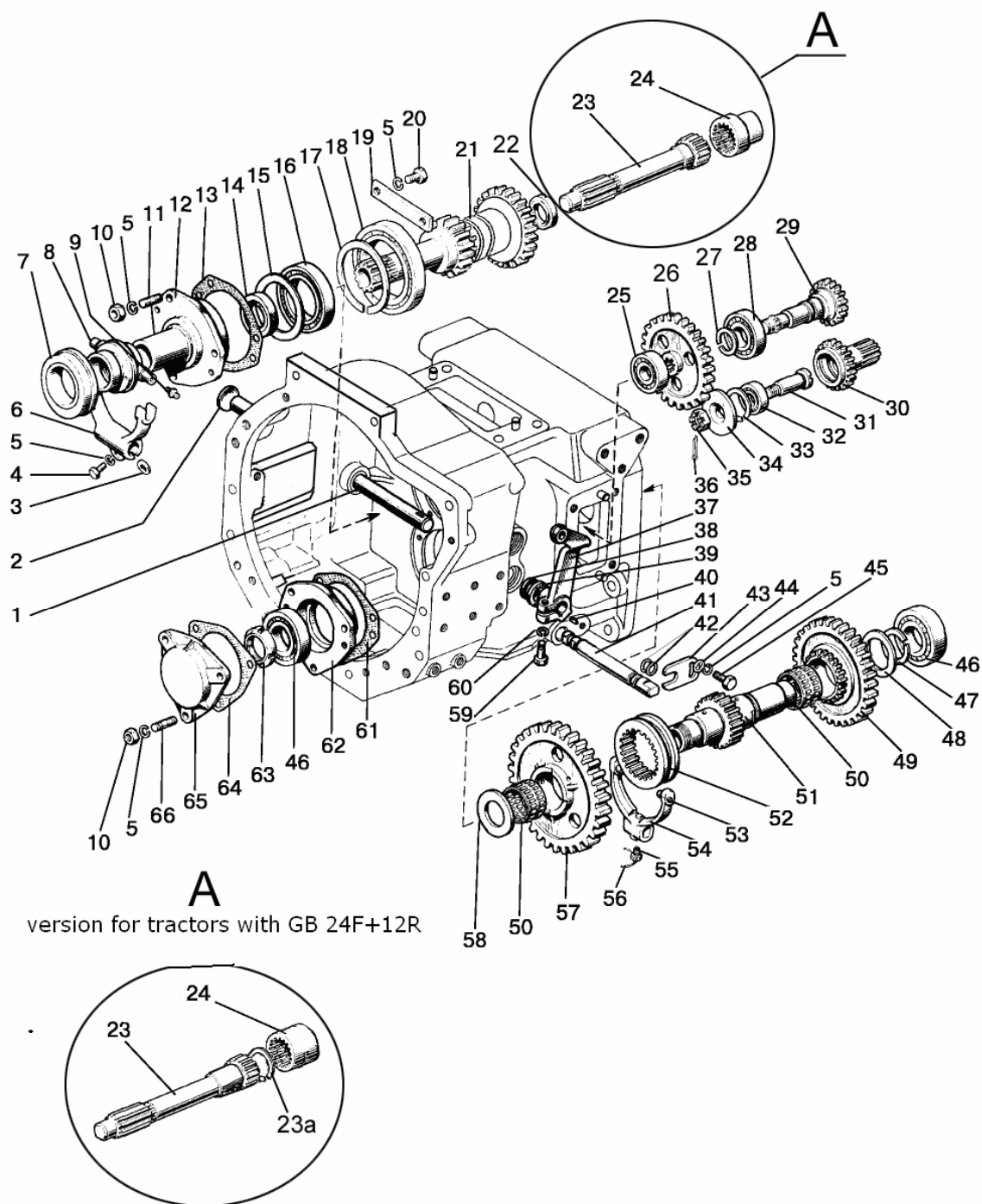
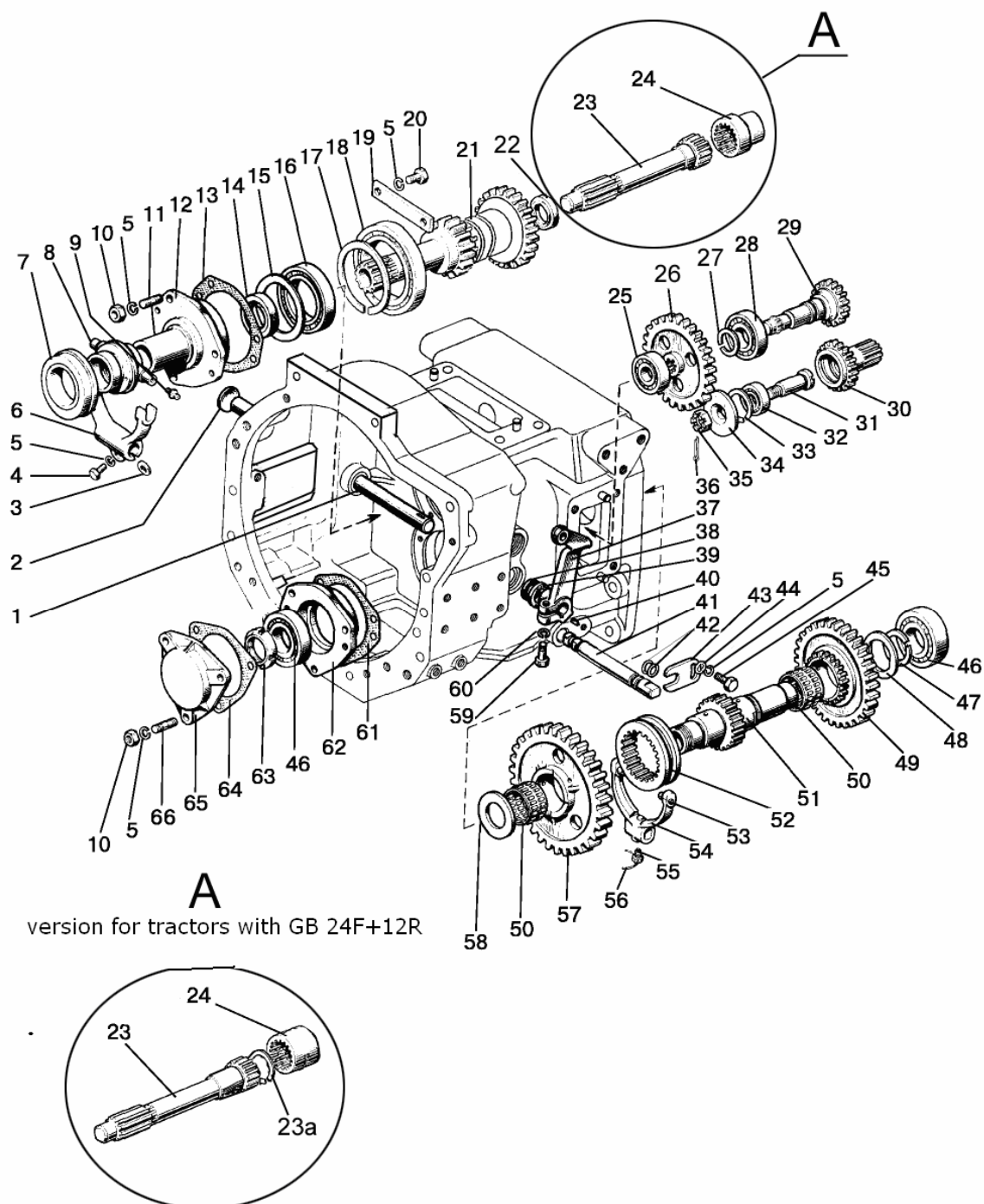


Fig. 16.3 Clutch Housing

Group 16. Clutch
Subgroup 1601. Clutch Housing

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
16.3		80-1601030-01	1	Shifter bracket (12, 14)
		80-1601040	1	Cage (46-1 piece, 62)
		80-1601050-01	1	Shaft (16-18, 21, 22)
		2022-1601060 ¹⁾	1	Bushing (23a, 24)
		80-1601070	1	Shaft-gear (27-29)
		85-1601150	1	Shaft (1, 37, 40, 59, 60)
		80-1601160	1	Shaft (46-1 piece, 47-49, 50-1 piece, 51)
		80-1601180	1	Gear (30-33)
		50-1601180-A	1	Shifter arm (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	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	5	10 OT OST 37.001.115-75	10	Washer
	6	85-1601203	1	Fork
	7	986714 KC17	1	Thrust bearing
	8	50-1601185-A	1	Shifter
	9	1.1.LI9.xp	1	Oiler
	10	M10-6H.6.019 GOST 5915-70	6	Nut
	11	M10 3p/6gx25.66.019 GOST 22034-76	3	Stud
	12	85-1601172	1	Bracket
	13	80-1601173	1	Gasket
	14	240-1002055	1	Collar
	15	80-1601319	1	Washer
	16	115 K5 GOST 8338-75	1	Bearing
	17	C105 GOST 13940-86	1	Ring
	18	76-1000921	1	Bearing
	19	80-1601318	1	Plate
	20	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	21	85-1601026	1	Shaft
	22	2.2-38x58-1 GOST 8752-79/OST 3805146-78	1	Collar
	23	80-1601113-01 1222-1601113 ¹⁾	1	Shaft
	23a	C45 GOST 13941-86 ¹⁾	1	Ring
	24	80C-1601061 2022-1601061 ¹⁾	1	Bushing
	25	305A GOST 8338-75	1	Bearing
	26	80-1601357-B	1	Gear
	27	C35 GOST 13943-86	1	Ring
	28	207 GOST 8338-75	1	Bearing
	29	80-1601071-B	1	Shaft-gear
	30	80-1601182	1	Gear
	31	80-1601181	1	Axis
	32	204A GOST 8338-75	1	Bearing
	33	C47 GOST 13943-86	1	Ring
	34	80-1601356	1	Thrust washer
	35	70-3003032	1	Nut
	36	3,2x25.019 GOST 397-79	1	Forelock
	37	80-1601219-B	1	Lever
	38	80-4608024	1	Ring

¹⁾ For tractors with GB 24F+12R



version for tractors with GB 24F+12R

Fig. 16.3 Clutch Housing

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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
16.3	39	36-1601016	1	Housing
	40	CLJ-611	1	Key 6x11
	41	85-1601111	1	Shaft
	42	020-025-30-1-4 GOST 18829-73/ GOST 9833-73	2	Ring
	43	85-1601099	1	Plate
	44	C 10.01.019 GOST 6958-78	1	Washer
	45	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	46	209A GOST 8338-75	2	Bearing
	47	2C50 GOST 13941-86	1	Ring
	48	80-1601083	1	Washer
	49	80-1601086-A	1	Gear
	50	KK 52x60x39 E (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 GOST 3282-74	1	Wire (150 mm)
	57	80-1601088-A	1	Gear
	58	80-1601082	1	Washer
	59	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	60	12 OT OST 37.001.115-75	1	Washer
	61	80-1601091	1	Gasket
	62	80-1601041	1	Cage
	63	80-1701045	1	Nut
	64	80-1601092	1	Gasket
	65	80-1601089	1	Cover
	66	M10 3p/6gx35.66.019 GOST 22034-76	3	Stud

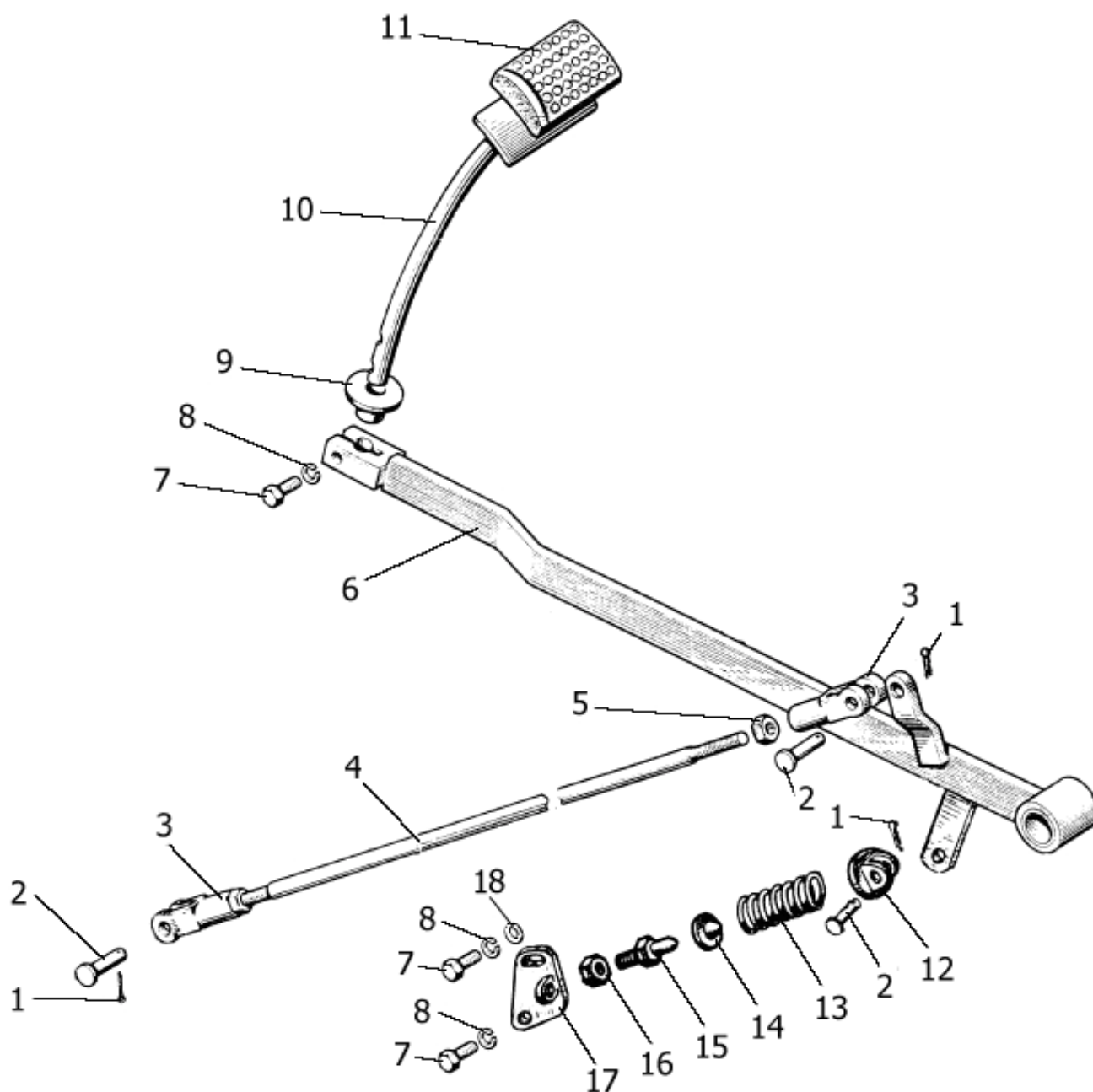


Fig. 16.4. Clutch Control

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1220.1/1220.3/1220.4

Group 16. Clutch
Subgroup 1602. Clutch Control

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
16.4		85-1602010		Clutch control
		85-1602010-01 ¹⁾		
		85-1602110	1	Rod (3, 4, 5)
	1	3,2x18.019 GOST 397-79	3	Forelock
	2	12x32 OST 37.001.163-97	3	Pin
	3	50-3502203	2	Fork
	4	85-1602112	1	Rod
	5	M12x1,25-6H.04.019 GOST 5916-70	2	Nut
	6	85-1602020-B	1	Pedal
	7	M12-6gx30.88.35.019 GOST 7796-70	3	Bolt
	8	12 OT OST 37.001.115-75	3	Washer
	9	80-3503158-A	1	Seal
	10	80-1602040-B	1	Pedal stem
	11	A13.33.002	1	Case
	12	50-1602027	1	Thrust
	13	50-1602032	1	Spring
	14	50-1602029	1	Thrust washer
	15	80-1602033	1	Stop bolt
		80-1602033-01 ¹⁾		
	16	M16-6H.04.019 GOST 5916-70	1	Nut
	17	1221-1602075	1	Bracket
		50-1602034-B1 ¹⁾		
	18	C12.01.019 GOST 11371-78	1	Washer

¹⁾ Version with creeper

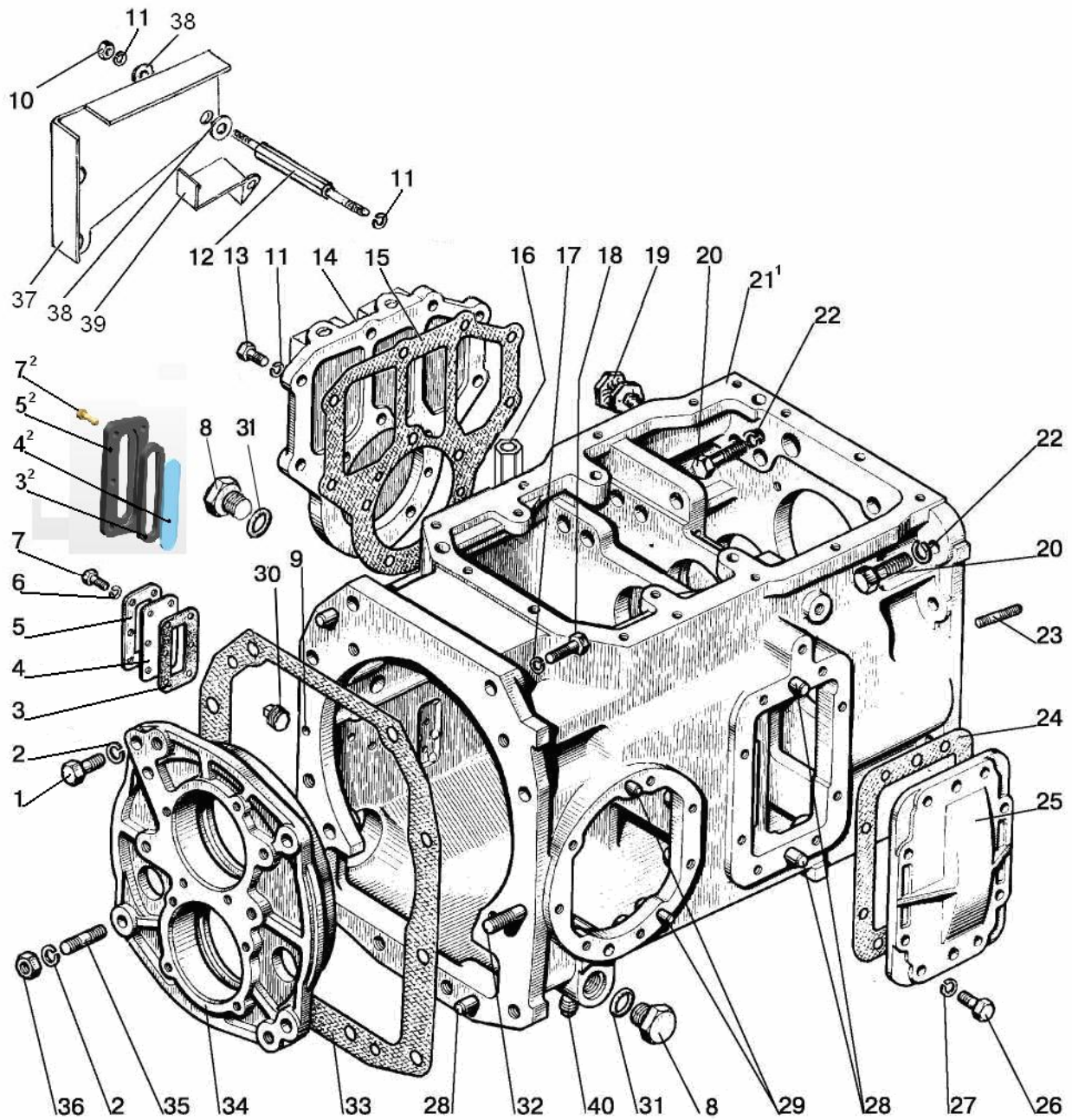


Fig. 17.1. Gearbox 112-1700010-A (16F+8R)

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.1		112-1700010-A-10/-11/-02/-04		Gearbox
	1	M16-6gx45.88.35.019 GOST 7796-70	3	Bolt
	2	16 OT OST 37.001.115-75	4	Washer
	3	85-4608086-A	1	Gasket
	3	85-4608086-B ²⁾	1	Seal
	4	85-4608087	1	Indicator
	4	85-4608087-B ²⁾	1	Indicator
	5	85-4608088	1	Plate
	5	85-4608088-B ²⁾	1	Housing
	6	6T OST 37.001.115-75	6	Washer
	7	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	7	M6x20 DIN EN 1665-98 ²⁾	6	Bolt
	8	80-4608021	2	Blind plug
	9	10,0-60 GOST 3722-81	1	Ball
	10	M10-6H.6.019 GOST 5915-70	3	Nut
	11	10 OT OST 37.001.115-75	12	Washer
	12	1221-1802094	3	Stud
	13	M10-6gx35.88.35.019 GOST 7796-70	6	Bolt
	14	1221-1802016	1	Cover
	15	80-1701399-B	1	Gasket
	16	1221-1737099	1	Coupling
	17	20 OT OST 37.001.115-75	4	Washer
	18	70-4605036	4	Bolt
	19	50-1002318-B	2	Eye-bolt
	20	M18-6gx55.88.35.019 GOST 7796-70	8	Bolt
	21	80-1701025-A ¹⁾	1	Housing
	22	18 OT OST 37.001.115-75	8	Washer
	23	112-1701524	2	Stud
	24	50-1701456-A	1	Gasket
	25	70-1701454-A2-01	1	Cover
	26	M12-6gx30.88.35.019 GOST 7796-70	7	Bolt
	27	12 OT OST 37.001.115-75	7	Washer
	28	Д01-015	4	Pin
	29	ШЛК10x25	2	Pin
	30	КГ 1/8"	1	Plug
	31	027-032-30-1-4 GOST 18829-73/GOST 9833-73	2	Ring
	32	80-1701252	1	Stud
	33	80-1701026	1	Gasket
	34	80-1701034-01	1	Cage
	35	80-1701204	1	Stud
	36	M16-6H.6.019 GOST 5915-70	1	Nut
	37	1221-1802093	1	Board
	38	C 10.01.019 GOST 11371-78	6	Washer
	39	1221-1802089-A	1	Joke
	40	ПК КГ 3/8"	1	Plug

¹⁾ When ordering as spare parts one has to order housing 80-1701025-B.

²⁾ Installed into the gearbox since 2010

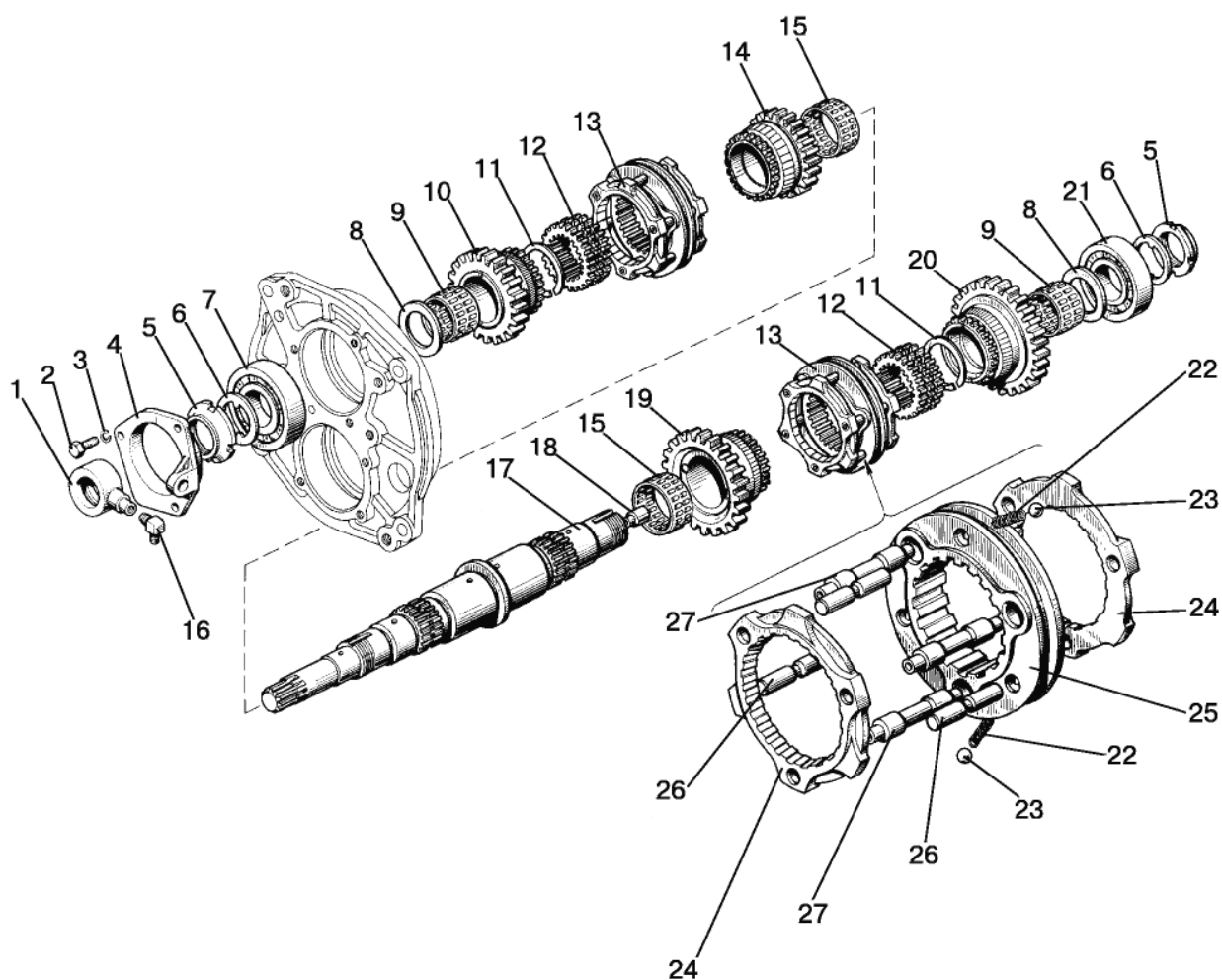


Fig. 17.2. Gearbox. Primary Shaft

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1220.1/1220.3/1220.4

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

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

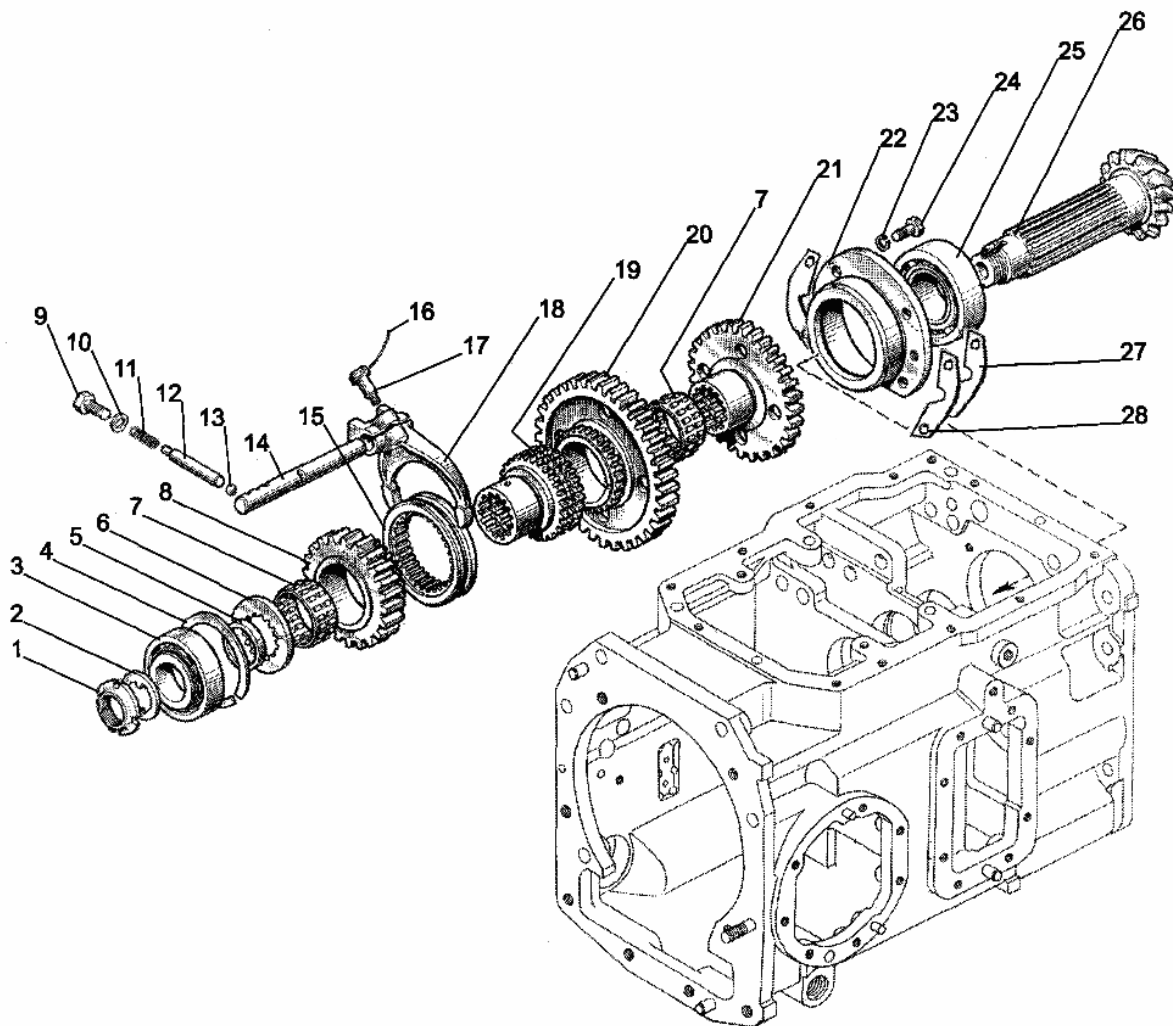


Fig. 17.3. Gearbox. Secondary Shaft

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1220.1/1220.3/1220.4

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

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

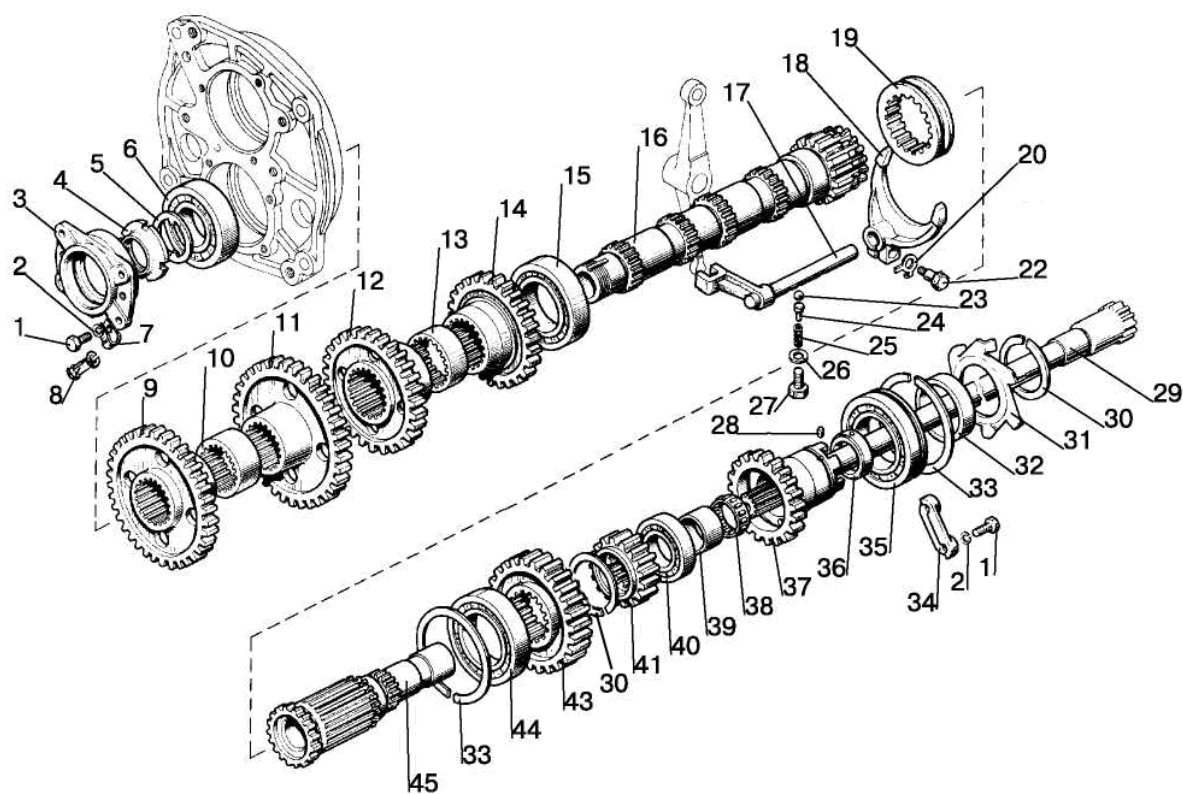


Fig. 17.4. Gearbox. Intermediate Shaft

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

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

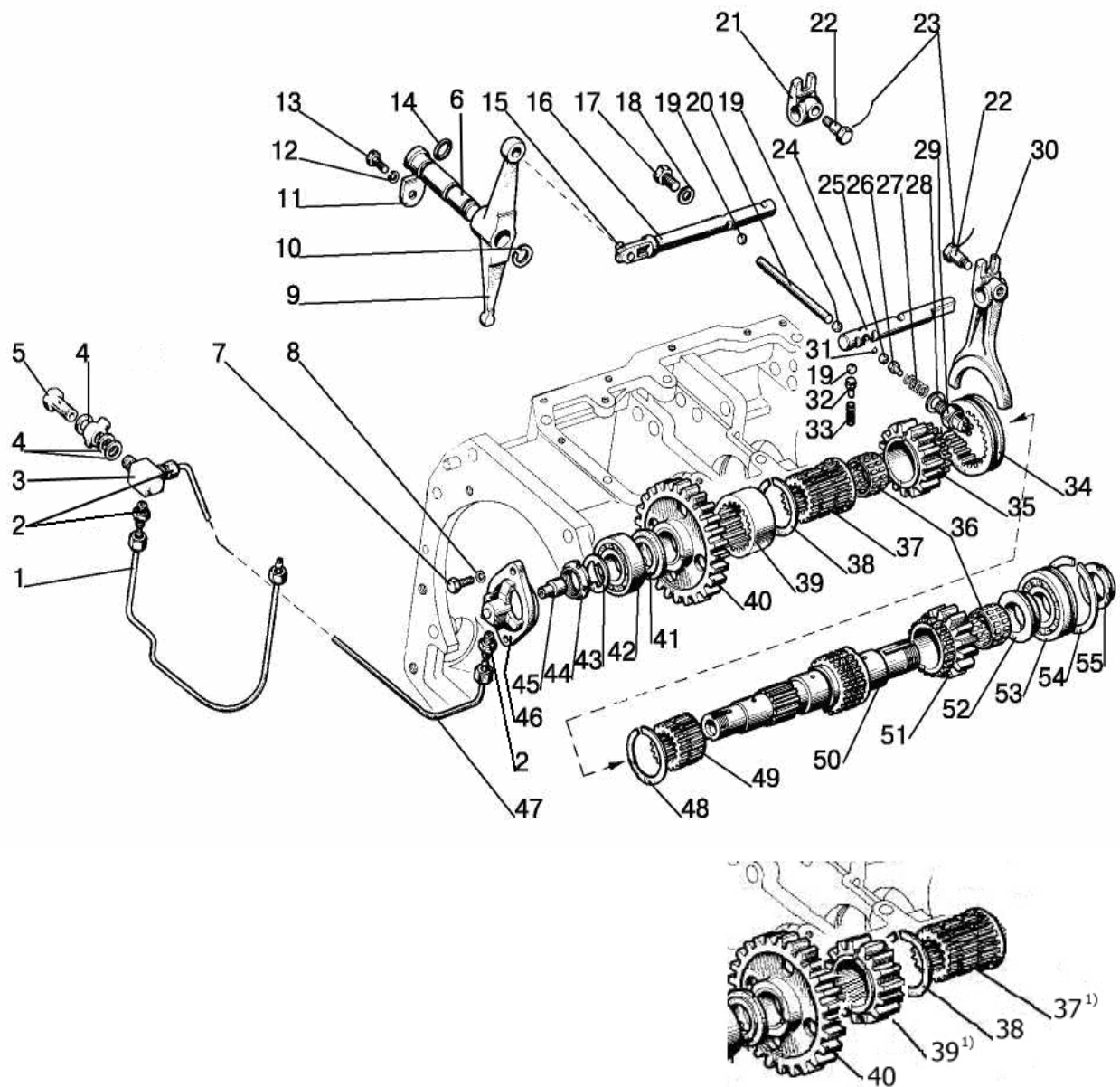


Fig. 17.5. Shaft of Low Speeds

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1220,1/1220,3/1220,4

Group 17. Gearbox Subgroup 1701. Shaft of Low Speeds (16F+8R)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.5		75-1701320	1	Shaft (35, 37, 49, 51,52)
	1	80-1701430	1	Pipe
	2	80-1701549	3	Coupling
	3	80-1701057	1	Coupling
	4	Д18-055-A	3	O-ring
	5	240-1111103	1	Bolt
	6	85-1702042	1	Axis
	7	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	8	8T OST 37.001.115-75	2	Washer
	9	85-1702041	1	Rocking arm
	10	C25 GOST 13940-86	1	Ring
	11	85-1702043	1	Plate
	12	10 OT OST 37.001.115-75	1	Washer
	13	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	14	026-030-25-2-2 GOST 18829-73/9833-73	1	Ring
	15	85-1702049	1	Pin
	16	85-1702039	1	Shifter arm
	17	M12-6gx25.88.35.019 GOST 7796-70	1	Bolt
	18	85-1702051	1	Washer
	19	10,0-60 GOST 3722-81	3	Ball
	20	85-1702046	1	Pin
	21	85-1702045	1	Shifter arm
	22	80-1702108	2	Bolt
	23	1,6-O-C GOST 3282-74	2	Wire
	24	85-1702035	1	Shifter arm
	25	12,7-60 GOST 3722-81	1	Ball
	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	664910E TU PБ 00234873.003-99	2	Bearing
	37	80-1701346	1	Bushing
	37	80-1701346-01 ¹⁾	1	Bushing
	38	2C70 GOST 13940-86	1	Ring
	39	1222-1701344	1	Bushing
	39	1025-1701344 ¹⁾	1	Gear
	40	80-1701340	1	Gear
	41	80-1701306	1	Washer
	42	12507KM GOST 8328-75	1	Bearing
	43	86-1802052	1	Washer
	44	52-2308097	1	Nut
	45	80-1701053	1	Throttle
	46	80-1701311-A	1	Cage
	47	80-1701420	1	Pipe
	48	54-31-472	1	Spring ring
	49	75-1701352	1	Bushing
	50	75-1701335	1	Shaft
	51	112-1701361	1	Gear
	52	80-1701339	1	Bushing
	53	692309KM GOST 8328-75	1	Bearing
	54	80-1701396	1	Ring
	55	80-1701045	1	Nut

¹⁾ For tractors with possibility of creeper installation (GB version -02/-04)

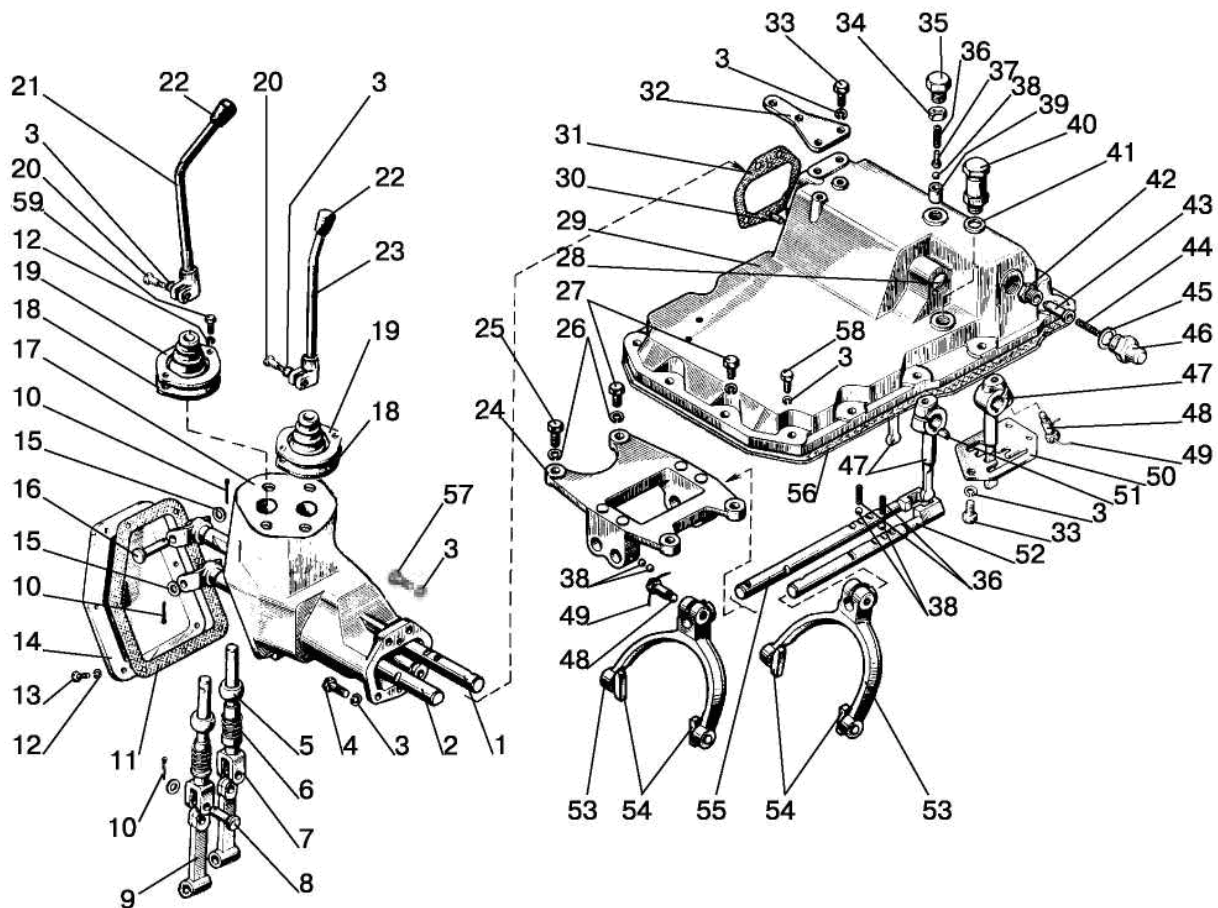


Fig 17.6. Mechanism of Gearbox Control

Group 17. Gearbox
Subgroup 1702. Mechanism of Gearbox Control (16F+8R)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.6		80-1702010-02/-05	1	Control mechanism (1-20, 27, 28, 29-50)
		80C-1702080	1	Housing (80C-1702090-Б, 24, 38, 48, 49, 52, 55, 56)
		80C-1702090-Б	2	Fork (53, 54)
		80C-1702300	1	Retainer (42-46)
	1	80C-1702060	1	Shaft
	2	80C-1702070	1	Shaft
	3	10 OT OST 37.001.115-75	18	Washer
	4	M10-6gx35.88.35.019 GOST 7796-70	2	Bolt
	5	142-1702032	2	Ball
	6	77.37.117	2	Spring
	7	80C-1702074	2	Fork
	8	12x32 OST 37.001.163-75	2	Pin
	9	80C-1702073	2	Lever
	10	3,2x18.019 GOST 397-79	4	Forelock
	11	80-1702068	1	Gasket
	12	6T OST 37.001.115-75	11	Washer
	13	M6-6gx16.88.35.019 GOST 7798-70	7	Bolt
	14	80-1702067	1	Cover
	15	85-4619014	2	Washer
	16	12x55 OST 37.001.163-75	2	Pin
	17	80-1702078-A	1	Housing
	18	55-47-569-A	2	Case
	19	80C-1702075	2	Washer
	20	M10-6gx30.88.35.019 GOST 7796-70	2	Bolt
	21	75-1702600	1	Lever
	22	70-1702125	2	Handle
	23	75-1702500	1	Lever
	24	80C-1702081	1	Housing
	25	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	26	12 OT OST 37.001.115-75	6	Washer
	27	50-1702092	4	Bolt
	28	28-10кп.Ц9.xp GOST 3111-81	1	Blind plug
	29	1221-1702025	1	Cover
		1221-1702025-01 ¹⁾		
	30	8x16 GOST 3128-70	2	Pin
	31	80C-1702066	1	Gasket
	32	85-3503046	1	Bracket
	33	M10-6gx25.88.35.019 GOST 7796-70	5	Bolt
	34	M16-6H.04.019 GOST 5916-70	1	Nut
	35	70-1703204	1	Bolt
	36	50-1702148-A	3	Spring
	37	80-1704039	1	Guide
	38	10,0-60 GOST 3722-81	5	Ball
	39	70-1703013	1	Bushing
	40	85-1702270	1	Breather
	41	B50-3522023	1	Gasket
	42	80C-1702301	1	Bushing
	43	80C-1702303	1	Detent
	44	80-1737113	1	Spring
	45	80-1702098	1	Washer
	46	80C-1702302	1	Housing
	47	85-1702055	3	Lever
	48	80-1702108	5	Bolt
	49	1,6-O-C GOST 3282-74	5	Wire

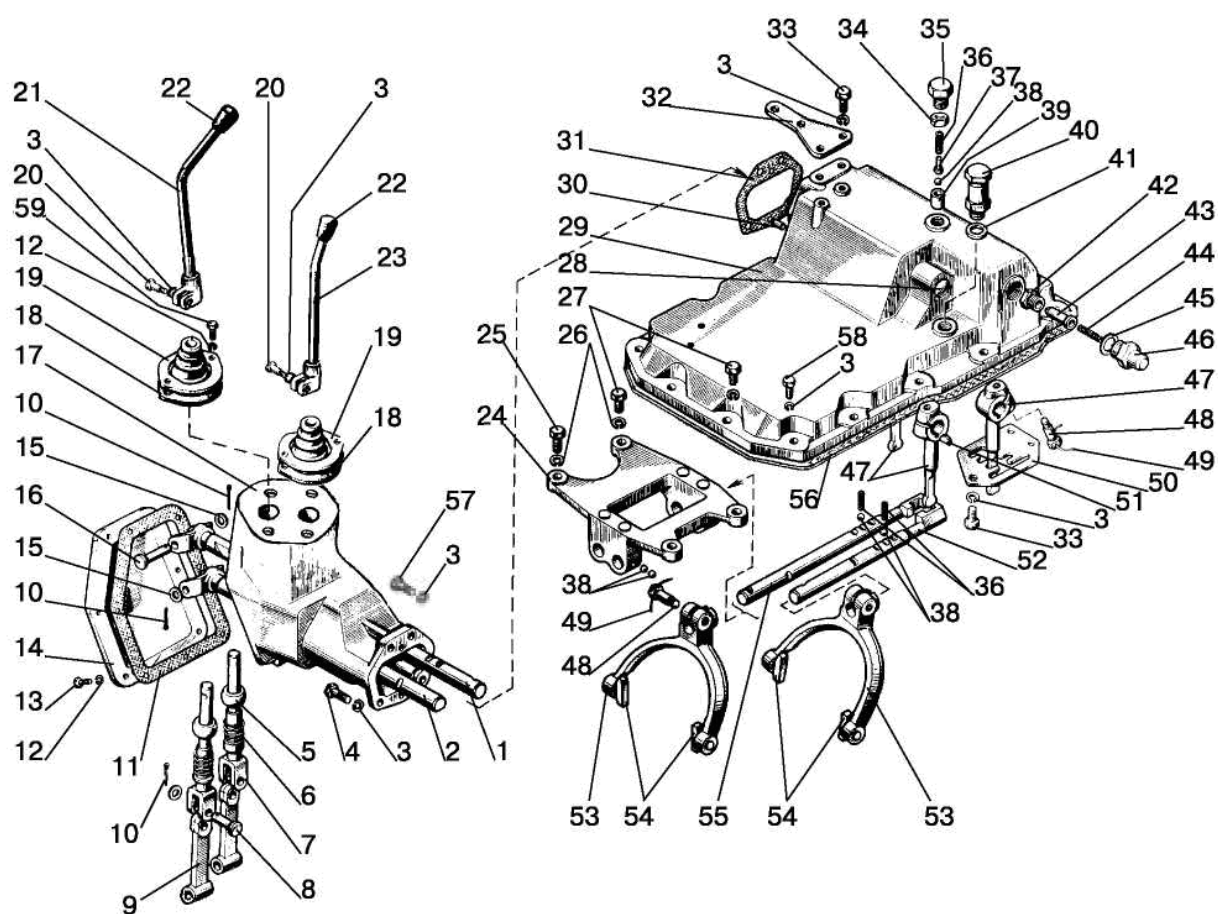


Fig. 17.6. Mechanism of Gearbox Control

BELARUS**1220.1/1220.3/1220.4**

Group 17. Gearbox
Subgroup 1702. Mechanism of Gearbox Control (16F+8R)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.6	50	75-1702052-A	1	Sector
	51	6x10 GOST 24071-97	3	Key
	52	80C-1702083	1	Shifter arm
	53	80C-1702091-Б	2	Fork
	54	80C-1702092	4	Cotter
	55	80C-1702082	1	Shifter arm
	56	85-1702026	1	Gasket
	57	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	58	M10-6gx35.88.35.019 GOST 7796-70	12	Bolt
	59	M6-6gx20.88.35.019 GOST 7798-70	4	Bolt

¹⁾ For GB versions -02/-11

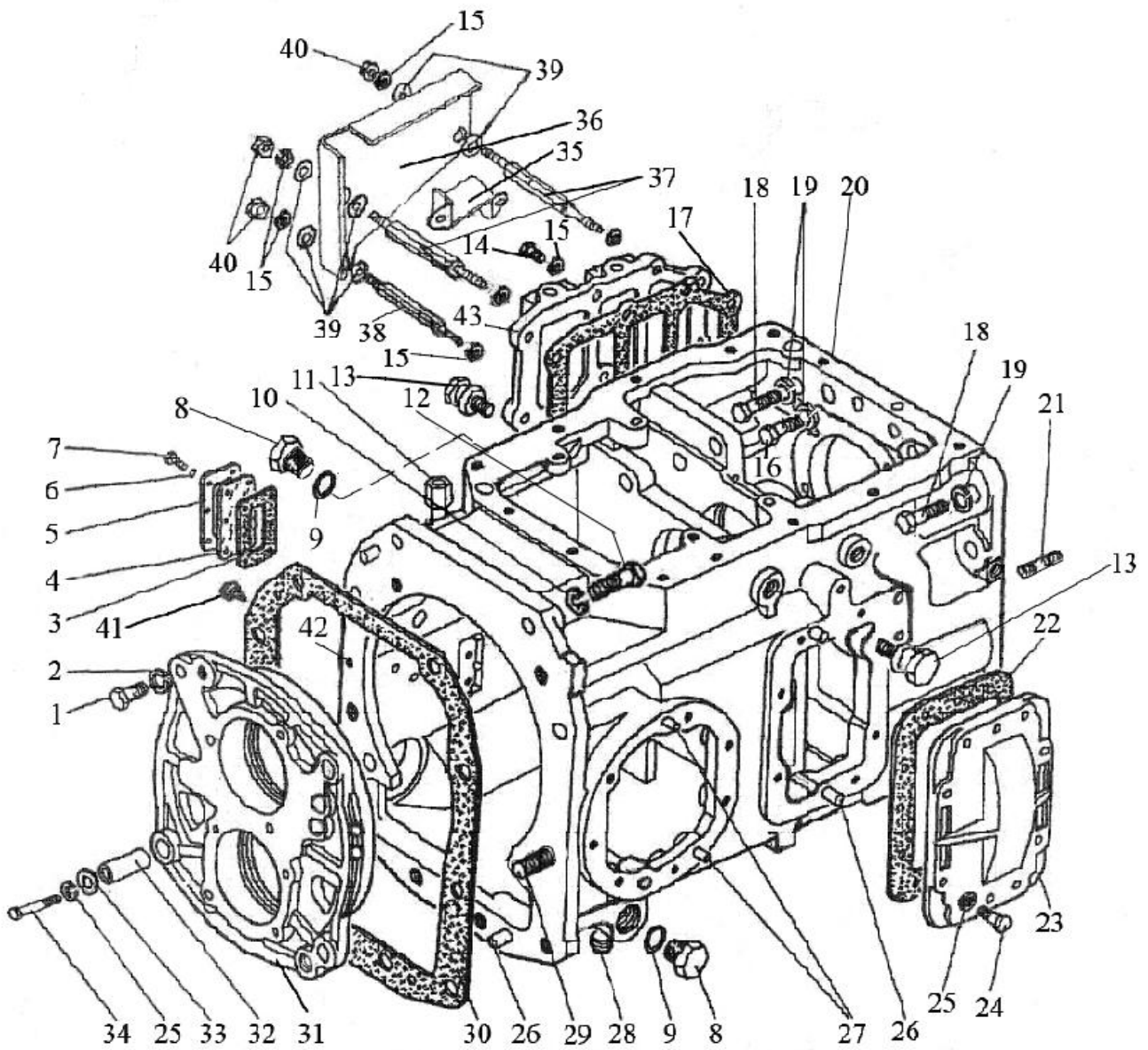


Fig. 17.7 Gearbox 1222-1700010 (24F+12R)

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.7		1222-1700010-02	1	Gearbox
		1222-1700010-05 ¹⁾		
	1	M16-6gx45.88.35.019 GOST 7796-70	2	Bolt
	2	16 OT OST 37.001.115-75	2	Washer
	3	85-4608086-A	1	Gasket
	4	85-4608087	1	Indicator
	5	85-4608088	1	Plate
	6	6T OST 37.001.115-75	6	Washer
	7	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	8	80-4608021	2	Blind plug (M30)
	9	027-032-30-1-4 GOST 18829-73/ GOST 9833-73	2	Ring
	10	20 OT OST 37.001.115-75	4	Washer
	11	1221-1737099	1	Coupling
	12	70-4605036	4	Bolt (M20x60)
	13	50-1002318-B	2	Eye-bolt (M16)
	14	M10-6gx35.88.35.019 GOST 7796-70	6	Bolt
	15	10 OT OST 37.001.115-75	12	Washer
	16	1221-2401011-02	1	Bolt (M18x50)
	17	80-1701399-B	1	Gasket
	18	1221-2401011-01	8	Bolt (M18x60)
	19	18 OT OST 37.001.115-75	9	Washer
	20	1222-1701025	1	Housing
	21	112-1701524	2	Stud M18 3p/6gx45.66.019 GOST 22034-76
	22	50-1701456-A	1	Gasket
	23	70-1701454-A2-01	1	Cover
	24	M12-6gx30.88.35.019 GOST 7796-70	7	Bolt
	25	12 OT OST 37.001.115-75	9	Washer
	26	Д01-015	4	Locating pin
	27	ШЦК 10x25	4	Pin
	28	ПК КГ 3/8"	1	Plug
	29	80-1701525	1	Stud M20 3p/6gx65.66.019 GOST 22034-76
	30	80-1701026	1	Gasket
	31	1222-1701034	1	Cage
	32	1222-1701071	2	Pin
	33	1222-1701072	2	Washer
	34	M12-6gx60.88.35.019 GOST 7796-70	2	Bolt
	35	1221-1802089-A	1	Joke
	36	1221-1802093	1	Board
	37	1221-1802094	2	Stud
	38	1221-1802094-01	1	Stud
	39	C 10.01.019 GOST 11371-78	6	Washer
	40	M10-6H.6.019 GOST 5915-70	3	Nut
	41	КГ 1/8".A12.019	1	Plug
	42	10,0-60 GOST 3722-81	1	Ball
	43	1221-1802016	1	Cover

¹⁾ Version with creeper

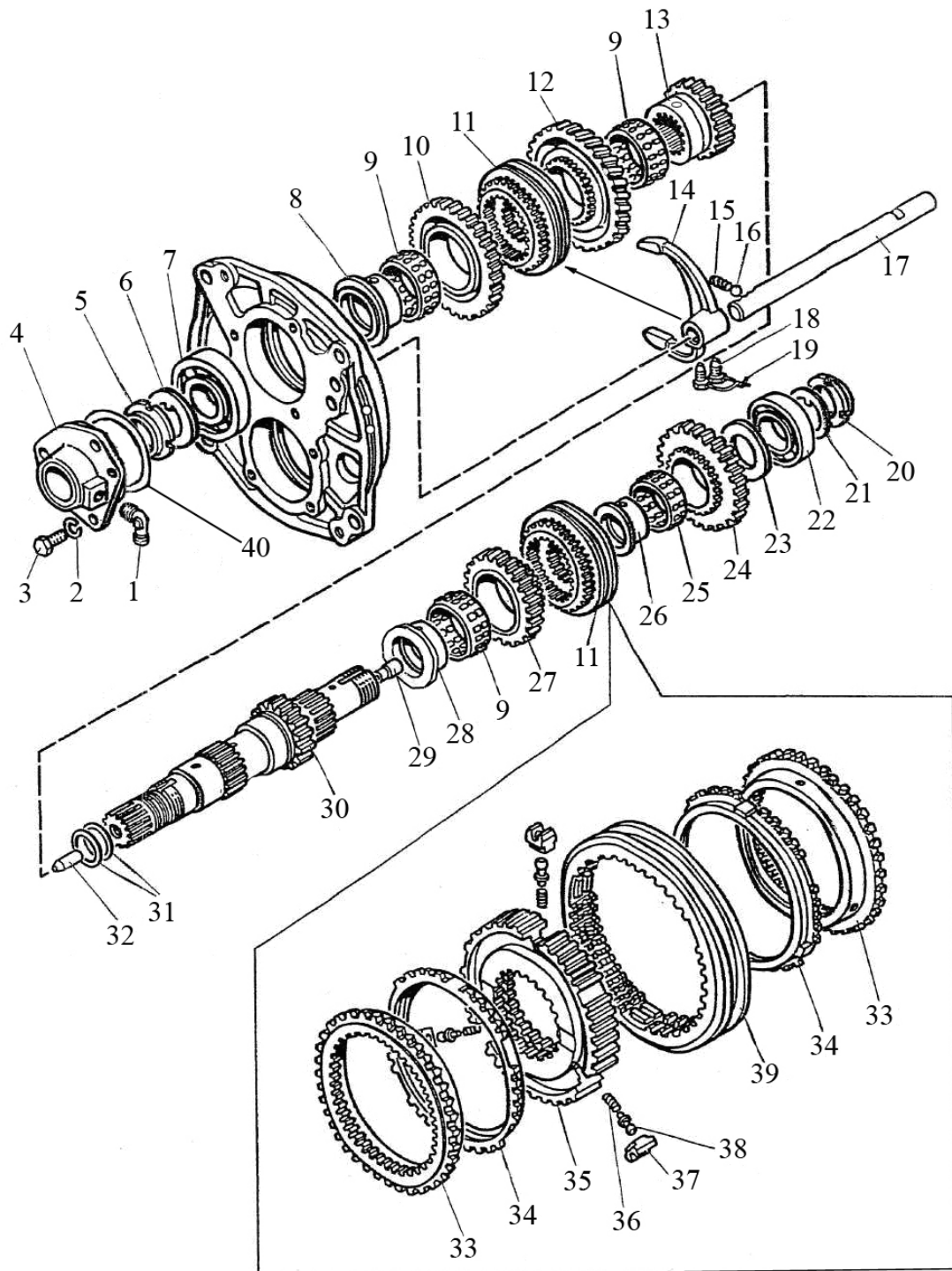


Fig. 17.8 Primary Shaft

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.8	1	86-1802088	1	Elbow
	2	12 OT OST 37.001.115-75	3	Washer
	3	M12-6gx30.88.35.019 GOST 7796-70	3	Bolt
	4	1222-1701030	1	Cage
	5	80-1701047	1	Nut
	6	80-1701186	1	Washer
	7	6-311 AШ1 GOST 8338-75	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 ¹⁾	2	Synchro unit
	12	1222K-1701054	1	Gear
	13	1222-1701044	1	Gear
	14	1222-1702088	1	Fork
	15	50-1702148-A	1	Detent spring
	16	10,0-60 GOST 3722-81	1	Ball
	17	1222-1702082	1	Shifter arm
	18	220-1702061	2	Bolt
	19	1,6-O-C GOST 3282-74	4	Wire (200 mm)
	20	80-1701045	1	Nut
	21	80-1701056	1	Washer
	22	309 K GOST 8338-75	1	Bearing
	23	1222-1701049	1	Washer
	24	1222-1701048	1	Gear
	25	KK 62x70x31 E (664913E)	1	Bearing
	26	1222-1701047	1	Bushing
	27	1222-1701042	1	Gear
	28	1523-1701046	1	Bushing
	29	80-1701053	1	Throttle
	30	1523-1701032	1	Shaft-gear
	31	2522-1802083	2	O-ring
	32	50-1601352	1	Locating pin
	33	1222-1701393 ¹⁾	2	Cone ring
	34	1222-1701390 ¹⁾	2	Lock ring
	35	1222-1701392 ¹⁾	1	Slide
	36	1222-1701396 ¹⁾	3	Spring
	37	1222-1701397 ¹⁾	3	Pusher
	38	1222-1701398 ¹⁾	3	Detent
	39	1222-1701394 ¹⁾	1	Coupling
	40	1222-1701033	0-3	Washer

¹⁾ For synchro unit 1222-1701400

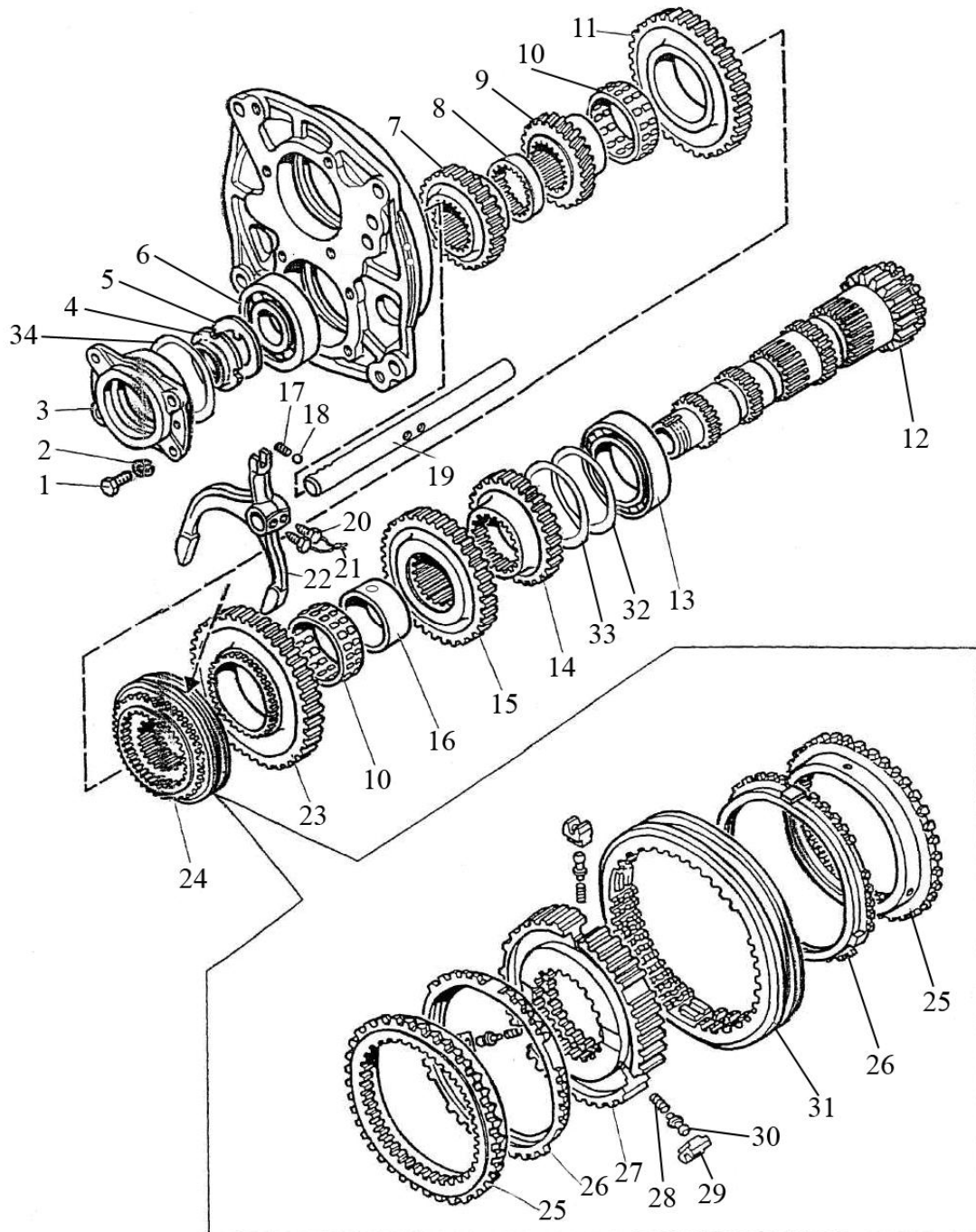


Fig. 17.9 Intermediate Shaft

BELARUS

1220.1/1220.3/1220.4

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
17.9		1222-1701190	1	Intermediate shaft (7-13,14-16,23,24,32,33)
	1	M10-6gx30.88.35.019 GOST 7796-70	4	Bolt
	2	10 OT OST 37.001.115-75	4	Washer
	3	80-1701151	1	Cage
	4	80-1701047	1	Nut
	5	80-1701186	1	Washer
	6	6-311 AШ1 GOST 8338-75	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	3514 H GOST 5721-75	1	Bearing
	14	1222-1701218	1	Gear
	15	1222-1701216	1	Gear
	16	1222-1701046	1	Bushing
	17	50-1702148-A	1	Detent spring
	18	10,0-60 GOST 3722-81	1	Ball
	19	1222-1702087	1	Shifter arm
	20	220-1702061	2	Bolt
	21	1,6-O-C GOST 3282-74	2	Wire (200 mm)
	22	1222-1702089	1	Fork
	23	1523-1701212	1	Gear
	24	GT-C 114; 3.28434.3 or 1222-1701400 ¹⁾	1	Synchro unit
	25	1222-1701393 ¹⁾	2	Cone ring
	26	1222-1701390 ¹⁾	2	Lock ring
	27	1222-1701392 ¹⁾	1	Slide
	28	1222-1701396 ¹⁾	3	Spring
	29	1222-1701397 ¹⁾	3	Pusher
	30	1222-1701398 ¹⁾	3	Detent
	31	1222-1701394 ¹⁾	1	Coupling
	32	1222-1701223	0-4	Washer
	33	1222-1701223-01	0-3	Washer
	34	1222-1701033	0-3	Washer

¹⁾ For synchro unit 1222-1701400

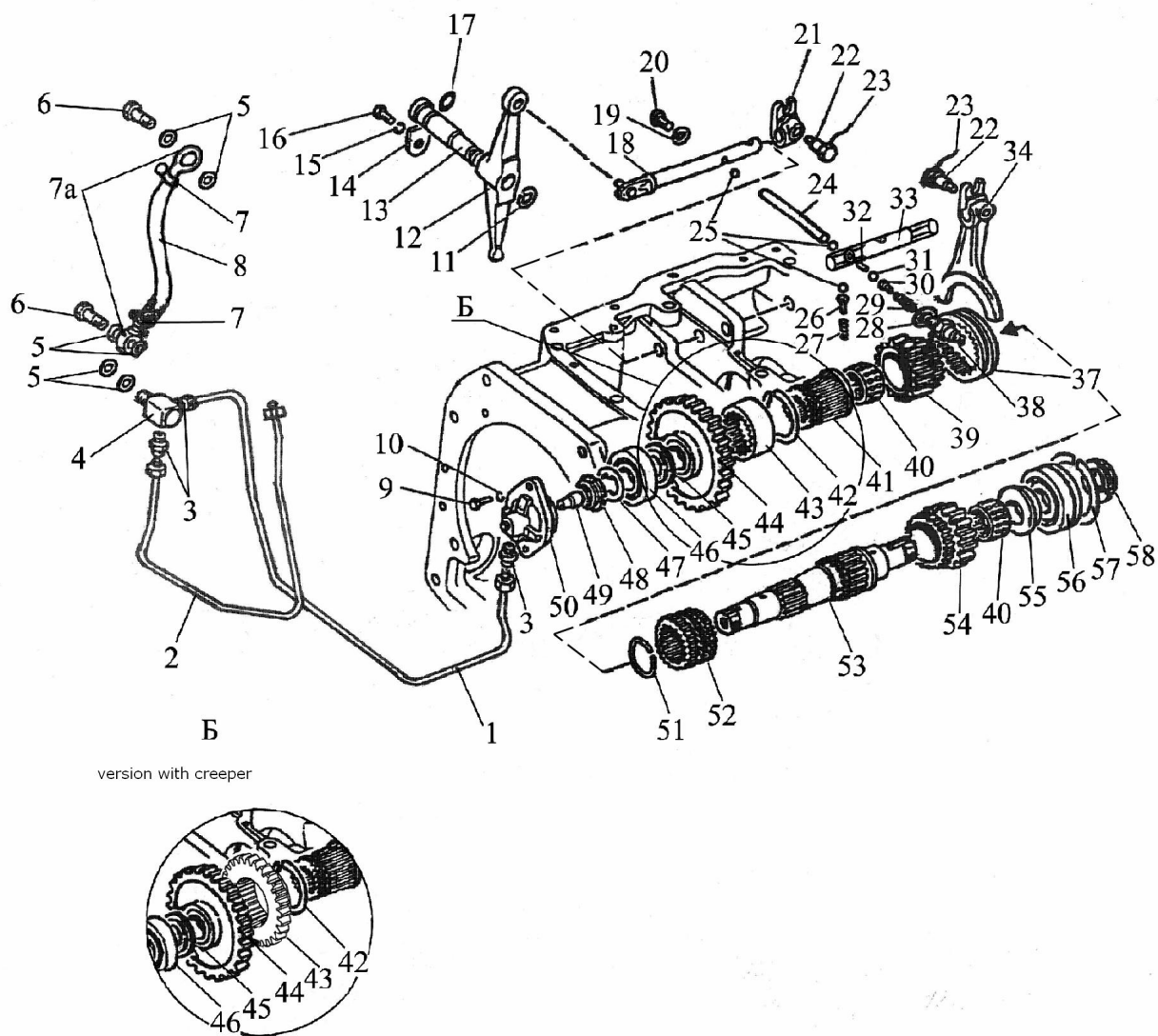


Fig. 17.10 Shaft of Low Speeds and Reverse

Group 17. Gearbox
Subgroup 1701. Gearbox. Shaft of Low Speeds and Reverse
(24F+12R)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.10		75-1701320	1	Shaft (40-1 piece, 53,55-58)
		80-1701310	1	Cage (3-1 piece, 49,50)
		1222-1702130-01	1	Oil pipeline (7,7a,8)
	1	80-1701420	1	Pipe
	2	80-1701430	1	Pipe
	3	80-1701549	3	Coupling
	4	80-1701057	1	Coupling
	5	Д18-055-A	6	O-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 (440 mm)
	9	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	10	8T OST 37.001.115-75	2	Washer
	11	C25 GOST 13940-86	1	Ring
	12	85-1702041	1	Rocking arm
	13	85-1702042	1	Axis
	14	85-1702043	1	Plate
	15	10 OT OST 37.001.115-75	1	Washer
	16	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	17	026-030-25-2-2	1	Ring
	18	85-1702050	1	Shifter arm
	19	85-1702051	1	Washer
	20	M12-6gx25.88.35.019 GOST 7796-70	1	Bolt
	21	85-1702045	1	Shifter arm
	22	80-1702108	2	Bolt
	23	1,6-O-C GOST 3282-74	2	Wire (200 mm)
	24	85-1702046	1	Pin
	25	10,0-60 GOST 3722-81	3	Ball
	26	80-1704039	1	Guide
	27	50-1702148-A	1	Detent spring
	28	50-1702048	5	Shim
	29	12-23-668-A	1	Spring
	30	85-1702305	1	Pin
	31	12,7-60 GOST 3722-81	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	KK 52x60x39 E (664910E)	2	Bearing
	41	80-1701346 or 80-1701346-01 ¹⁾	1 1	Bushing Bushing
	42	2C70 GOST 13940-86	1	Ring
	43	1222-1701344 or 1025-1701344 ¹⁾	1 1	Bushing Gear
	44	1520-1701340	1	Gear
	45	80-1701306	1	Washer
	46	12507KM GOST 8328-75	1	Bearing

¹⁾ Version with creeper

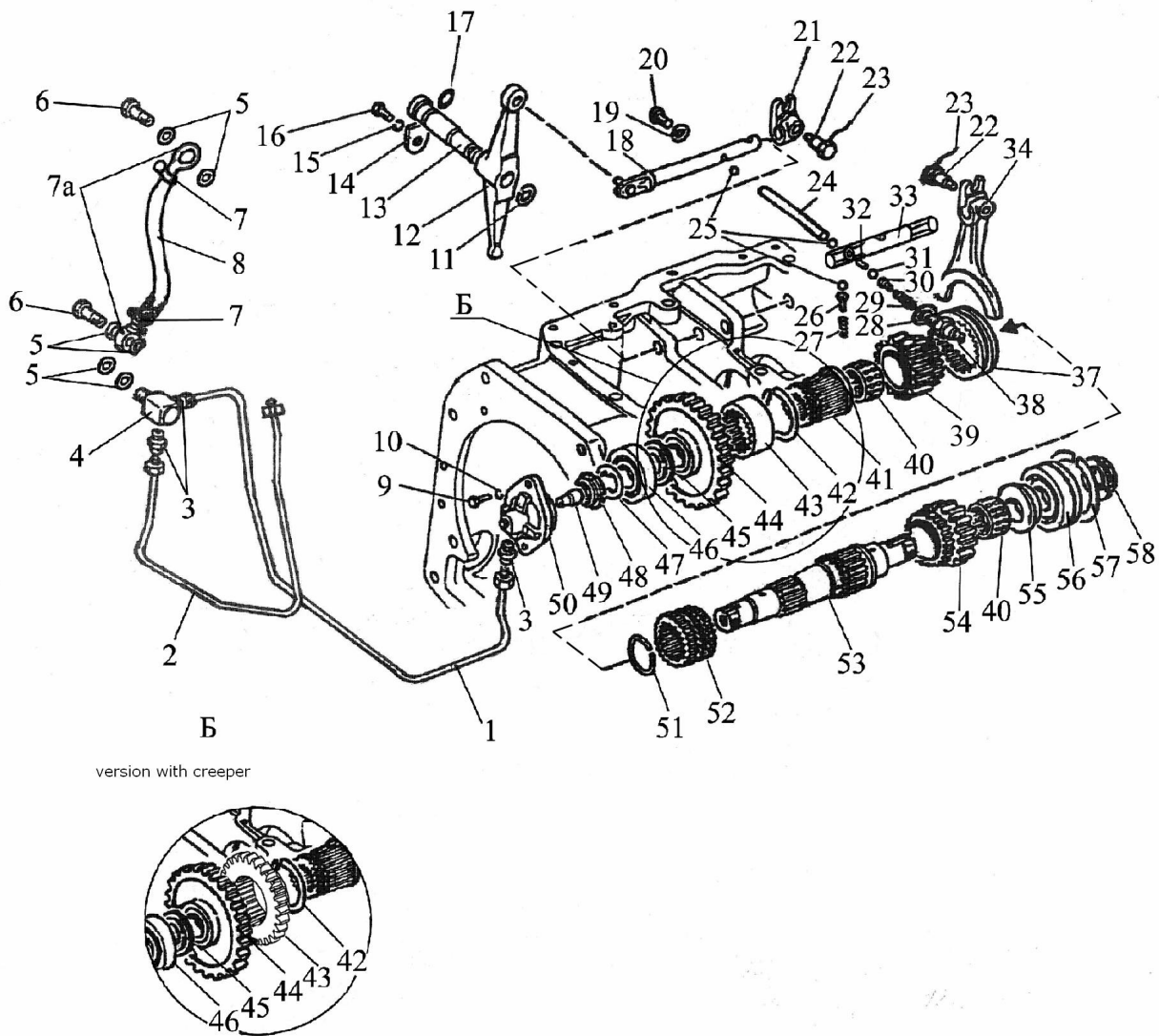


Fig. 17.10 Shaft of Low Speeds and Reverse

BELARUS**1220.1/1220.3/1220.4**

Group 17. Gearbox
Subgroup 1701. Gearbox. Shaft of Low Speeds and Reverse
(24F+12R)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.10	47	86-1802052	1	Washer
	48	52-2308097	1	Nut
	49	80-1701053	1	Throttle
	50	80-1701311-A	1	Cage
	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	692309 KM GOST 8328-75	1	Bearing
	57	80-1701396	1	Ring
	58	80-1701045	1	Nut

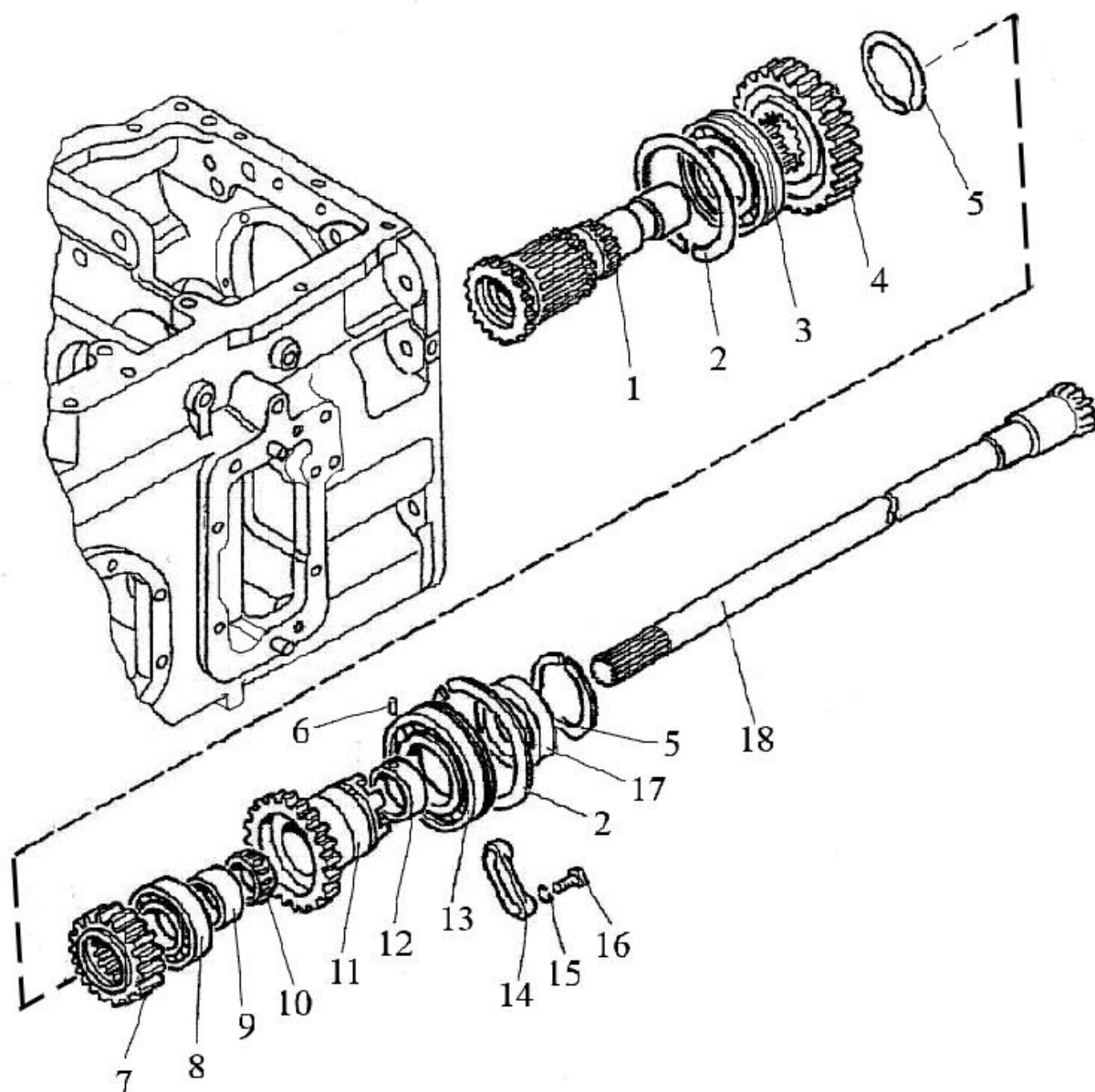


Fig. 17.11 Gear Unit Shaft

BELARUS**1220.1/1220.3/1220.4**

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

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
17.11		112-1701200	1	Gear (2,5,6,8,9,11-13,17)
		112-1701230	1	Gear (6,11,12)
	1	80-1701240	1	Shaft
	2	80-1701206	2	Ring
	3	692215K1M GOST 8328-75	1	Bearing
	4	1222-1701221	1	Gear
	5	2C75 GOST 13940-86	2	Ring
	6	2.4x8 GOST 3128-70	1	Pin
	7	1222-1701224	1	Gear
	8	42210 M GOST 8328-75	1	Bearing
	9	80-1701203	1	Bushing
	10	K 49,8x60,8x24 E (864710E)	1	Bearing
	11	112-1701202	1	Gear
	12	80-1701201	1	Bushing
	13	50215 A GOST 8338-75/GOST 2893-82	1	Bearing
	14	80-1701205	2	Plate
	15	10 OT OST 37.001.115-75	4	Washer
	16	M10-6gx30.88.35.019 GOST 7796-70	4	Bolt
	17	80-1701207-01	1	Bushing
	18	80-1701160	1	Shaft

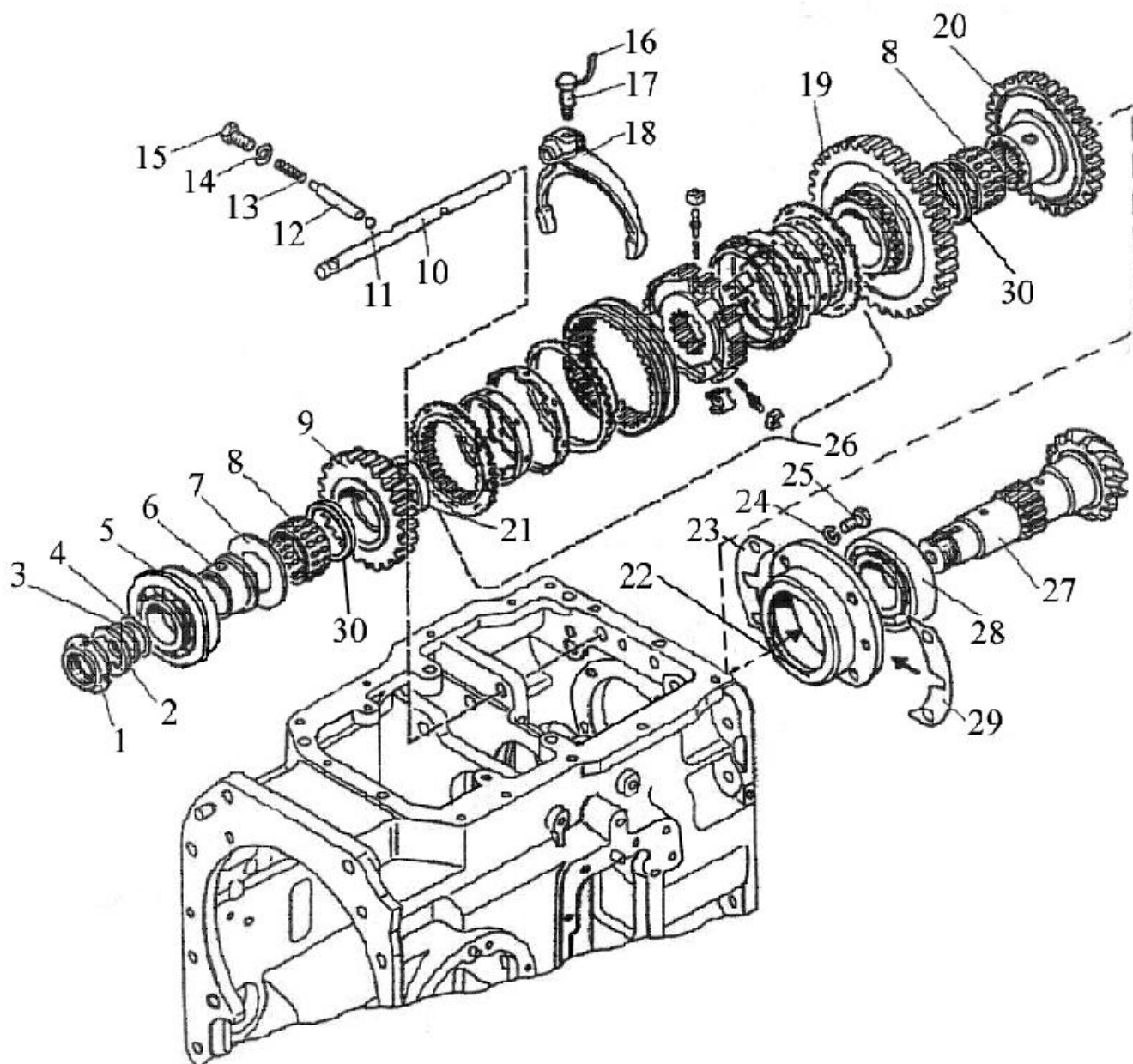


Fig. 17.12 Secondary Shaft

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.12		1222-1701050	1	Shaft (27, inner yoke 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	KK 70x78x31 E (664514E)	2	Bearing
	9	1222-1701314-A	1	Gear
	10	1222-1702037	1	Shifter arm
	11	10,0-60 GOST 3722-81	1	Ball
	12	85-1702048	1	Pin
	13	50-1702148-A	1	Detent spring
	14	85-1702051	1	Washer
	15	M12-6gx25.88.35.019 GOST 7796-70	1	Bolt
	16	1,6-O-C GOST 3282-74	2	Wire (200 mm)
	17	80-1702108	1	Bolt
	18	1222-1702029	1	Fork
	19	1222-1701312-A	1	Gear
	20	1222-1701313	1	Gear
	21	1222-1701349	1	Bushing
	22	80-1701140-B	1	Seat (with outer yoke bearing pos.28)
	23	50-1701258	6	Gasket
	24	10 OT OST 37.001.115-75	4	Washer
	25	M10-6gx30.88.35.019 GOST 7796-70	4	Bolt
	26	GT-D 109/116; 3.26299.3	1	Synchro unit
	27	1222-1701252	1	Shaft-gear
	28	7712A GOST 27365-87	1	Bearing (pos.27- inner yoke, pos.22- outer yoke)
	29	50-1701259	4	Gasket
	30	2025-1701033	2	Bushing

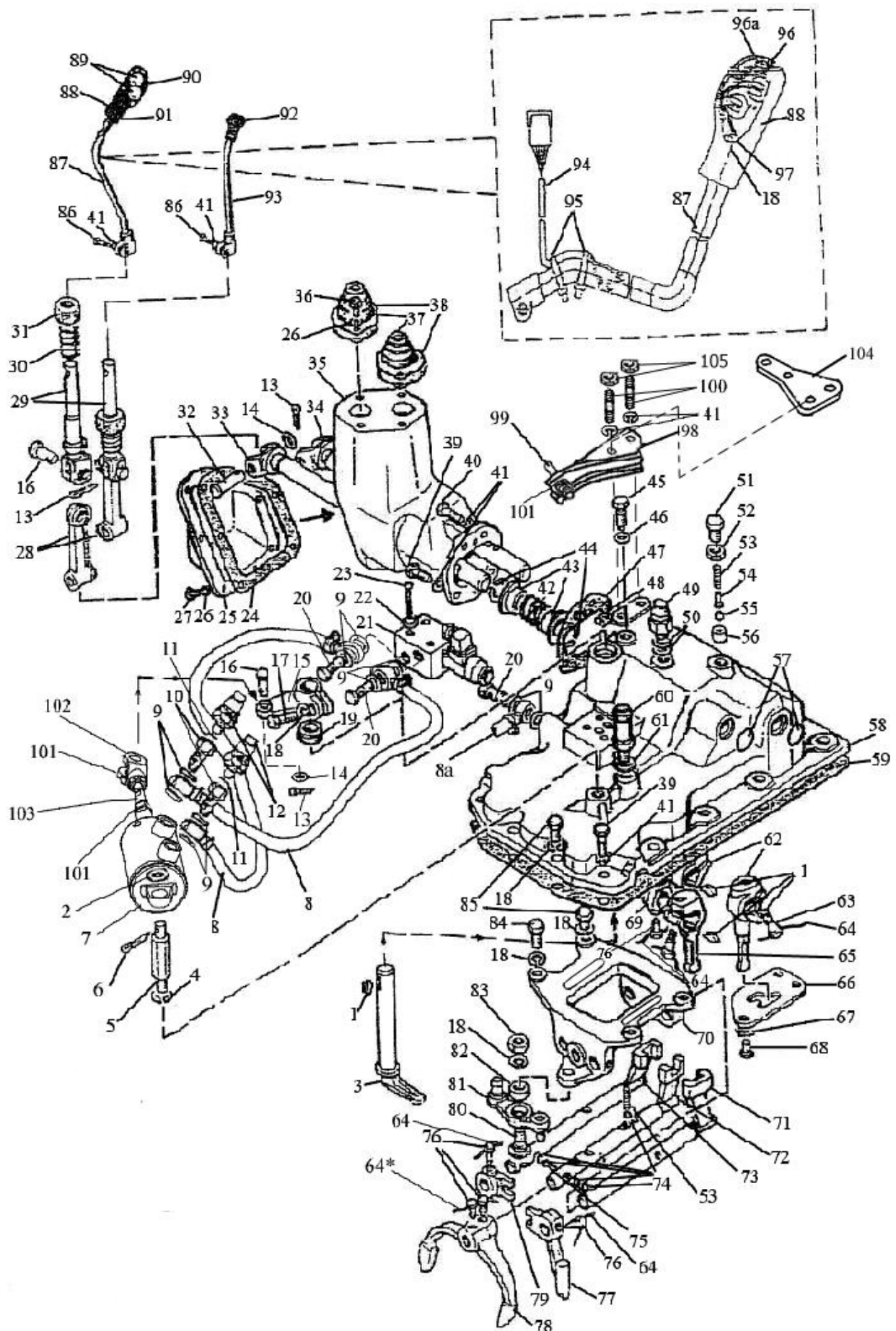


Fig. 17.13 Gearbox Control Mechanism

Group 17. Gearbox**Subgroup 1702. Gearbox Control Mechanism (24F+12R)**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.13		1222-1702010-A	1	Control mechanism
		1222-1702080	1	Fork housing (18-1 piece, 53-1 piece, 64 (2x200+200 ¹)=600 mm), 70-83)
	1	6x10 GOST 24071-97	4	Key
	2	C 16.01.019 GOST 11371-78	1	Washer
	3	1222-1702093	1	Lever
	4	16 OT OST 37.001.115-75	1	Washer
	5	1222-1702096-B	1	Axis
	6	3,2x25.019 GOST 397-79	1	Forelock
	7	2102-4216110-B	1	Cylinder
	8	1222-1702130	2	Oil pipeline
	8a	1222-1702130-01	1	Oil pipeline
	9	Д18-055-A	10	O-ring
	10	1222-1702114	2	Coupling
	11	009-012-19-1-4 GOST 18829-73/ GOST 9833-73	2	Ring
	12	ДСДМ-М	2	Sensor
	13	3,2x18.019 GOST 397-79	5	Forelock
	14	85-4619014	3	Washer
	15	1222-1702092	1	Lever
	16	12x32 OST 37.001.163-97	3	Pin
	17	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	18	12 OT OST 37.001.115-75	8	Washer
	19	2.2-25x42-1 GOST 8752-79/ OST 3805146-78	1	Collar
	20	Д18-051	3	Bolt
	21	RH 06101-012/00GA-AMP	1	Hydraulic distributor valve
	22	5T OST 37.001.115-75	4	Washer
	23	B.M5-6gx50.58.019 GOST 17473-80	4	Screw
	24	80-1702068	1	Gasket
	25	80-1702067	1	Cover
	26	6T OST 37.001.115-75	11	Washer
	27	M6-6gx16.88.35.019 GOST 7798-70	7	Bolt
	28	80C-1702073	2	Lever
	29	80C-1702074	2	Fork
	30	77.37.117	2	Spring
	31	142-1702032	2	Ball
	32	12x55 OST 37.001.163-75	2	Pin
	33	1222-1702070	1	Shaft
	34	80C-1702060	1	Shaft
	35	80-1702078-A	1	Housing
	36	M6-6gx20.88.35.019 GOST 7798-70	4	Bolt
	37	55-47-569-A	2	Case
	38	80C-1702075	2	Washer
	39	M10-6gx35.88.35.019 GOST 7796-70	14	Bolt
	40	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	41	10 OT OST 37.001.115-75	20	Washer
	42	80-4608057	1	Spring
	43	1222-1702064	2	Bushing
	44	C25 GOST 13940-86	2	Ring
	45	1222-1702048	1	Screw
	46	85-1702051	1	Washer
	47	80C-1702066	1	Gasket
	48	8x16 GOST 3128-70	2	Pin
	49	BK 12-41	1	Switch
	50	50-1702048	10	Shim

¹⁾ Locking of fork bolts pos. 78 during assembling of gearbox

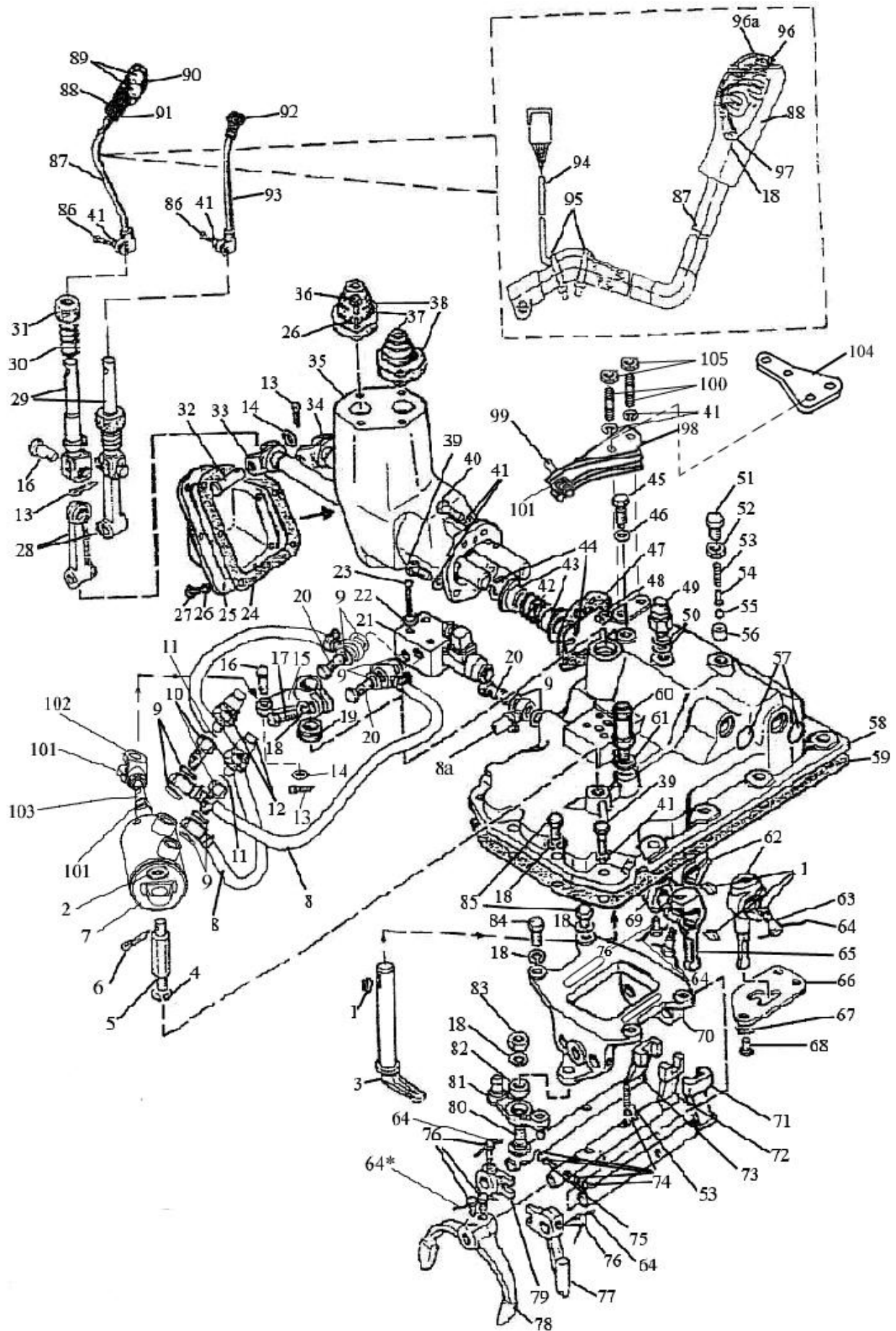


Fig. 17.13 Gearbox Control Mechanism

Group 17. Gearbox
Subgroup 1702. Gearbox Control Mechanism (24F+12R)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.13	51	70-1703204	1	Bolt
	52	M16-6H.6 GOST 5915-70	1	Nut
	53	50-1702148-A	2	Detent spring
	54	80-1704039	1	Guide
	55	10,0-60 GOST 3722-81	1	Ball
	56	70-1703013	1	Bushing
	57	28-10кп.Ц9.xp GOST 3111-81	2	Blind plug
	58	1222-1702030-B	1	Cover
	59	85-1702026	1	Gasket
	60	85-1702270	1	Breather
	61	B50-3522023	1	Gasket
	62	85-1702055	2	Lever
	63	80-1702108	3	Bolt
	64	1,6-O-C GOST 3282-74	7	Wire (6x200+200 ¹⁾ =1400 mm)
	65	1222-1702055	1	Lever
	66	1222-1702052	1	Sector
	67	80-3401013	3	Washer
	68	M10-6gx20.88.35.019 GOST 7796-70	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 GOST 3722-81	5	Ball
	75	85-1702301	1	Axis
	76	220-1702061	5	Bolt
	77	1222-1702109	1	Shifter arm
	78	1222-1702091 ²⁾	1	Fork
	79	1222-1702107	1	Retainer
	80	1222-1702112	1	Axis
	81	1222-1702105	1	Rocking arm
	82	941/20 GOST 4060-78	1	Bearing
	83	M12-6H.6.019 GOST 5915-70	1	Nut
	84	M12-6gx30.88.35.019 GOST 7796-70	2	Bolt
	85	50-1702092	4	Bolt
	86	M10-6gx30.88.35.019 GOST 7796-70	2	Bolt
	87	1222-1702610-A1	1	Lever
	88	75-1702505	1	Handle
	89	BK 12-1	2	Switch
	90	4x30 GOST 10621-80	4	Screw
	91	75-1702502	1	Cover
	92	A15.05.020	1	Handle
	93	2022-1702500-A	1	Lever
	94	1221-3724925-A	1	Cord
	95	80-3723045	2	Collar
	96	АЛ 307 KM A0.336.076 TU (red)	1	LED
	96a	АЛ 3074M A0.336.076 TU (yellow)	1	LED
	97	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	98	2022-1702090-B	1	Bracket
	99	2022-1702093	1	Bolt
	100	2022-1702142	2	Stud
	101	M10-6H.04.019 GOST 5916-70	3	Nut
	102	822-3502203	1	Fork
	103	2022-1702094	1	Stud
	104	85-3503046	1	Bracket
	105	M10-6H.6.019 GOST 5915-70	2	Nut

¹⁾ Locking of fork bolts pos. 78 during assembling of gearbox

²⁾ Adjusting with bolts pos.76 and with wire pos.64 (200 mm) when assembling gearbox

82

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1220.1/1220.3/1220.4

**Group 17. Gearbox
Subgroup 1704. Pump Drive**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.14		1222-1704010	1	Pump drive (1-10,12,15-34)
		80-1704040	1	Valve (20,27-31)
	1	80C-1704096-Б	1	Coupling
	2	M8-6gx20.88.35.019 GOST 7796-70	1	Bolt
	3	80-1704034	1	Washer
	4	85-1601108	1	Washer
	5	80-1704014-Б	1	Bushing
	6	80-1704092	2	Lock plate
	7	M12-6gx75.88.35.019 GOST 7795-70	4	Bolt
	8	HMШ25	1	Oil gear-type pump
	9	80-1704093	1	Pump gasket
	10	ПК КГ 3/8"	2	Plug
	11	80-1704016	1	Gasket
	12	1222-1704015	1	Housing
	13	10 OT OST 37.001.115-75	7	Washer
	14	M10-6gx30.88.35.019 GOST 7796-70	6	Bolt
	15	80-1704030	1	Oil pipeline
	16	80-1704050-A	1	Filter
	17	80-1704033	1	Gasket
	18	8T OST 37.001.115-75	2	Washer
	19	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	20	50-1702148-A	1	Spring
	21	80-1704037	1	Detent
	22	80-1704018	1	Plate
	23	C 10.01.019 GOST 11371-78	1	Washer
	24	10Л OST 37.001.115-75	1	Washer
	25	M10-6gx25.88.35.019 GOST 7796-70	1	Bolt
	26	C18 GOST 13940-86	1	Ring
	27	80-1704041	1	Housing
	28	1,0-O-C GOST 3282-74	1	Wire
	29	10,0-60	1	Ball
	30	80-1704039	1	Guide
	31	80-1704038	1	Plug
	32	020-025-30-1-4 GOST 18829-73/ GOST 9833-73	2	Ring
	33	80-1704020-Б	1	Shaft
	34	80-1704021	1	Cotter
	35	M10-6gx25.88.35.019 GOST 7796-70	1	Bolt

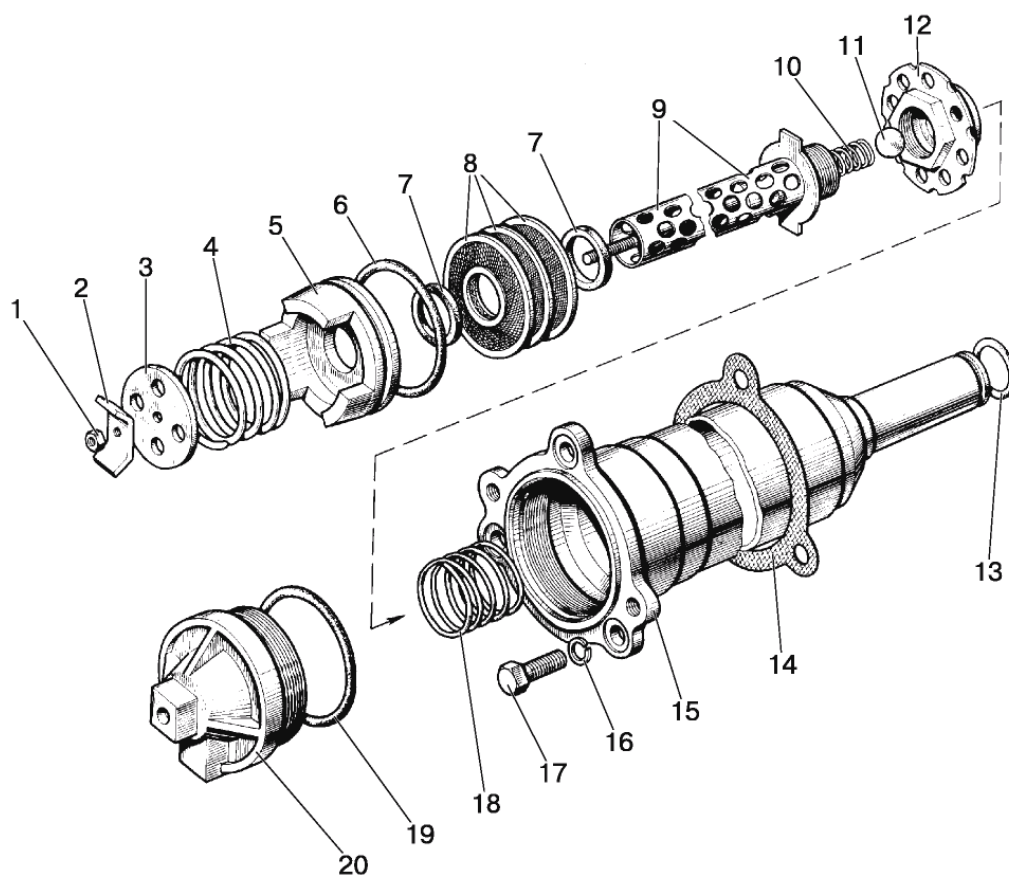


Fig. 17.15. Filter

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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.15		80-1716010	1	Filter (1-13, 15, 18-20)
		80-1716040	1	Pipe (9-12)
		80-1716030	1	Filter (1-5, 8-12)
	1	M5-6H.6.019 GOST 5927-70	1	Nut
	2	80-1716033	1	Joke
	3	80-1716032	1	Washer
	4	80-1716034	1	Spring
	5	80-1716031	1	Piston
	6	059-065-36-2-4 GOST 18829-73/ GOST 9833-73	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 GOST 3722-81	1	Ball
	12	80-1716060	1	Housing
	13	022-025-19-1-4 GOST 18829-73/ GOST 9833-73	1	Ring
	14	80-1716016	1	Gasket
	15	80-1716020	1	Housing
	16	10 OT OST 37.001.115-75	3	Washer
	17	M10-6gx30.88.35.019 GOST 7796-70	3	Bolt
	18	80-1716018	1	Spring
	19	066-071-30-2-2 GOST 18829-73/ GOST 9833-73	1	Ring
	20	80-1716015	1	Cover

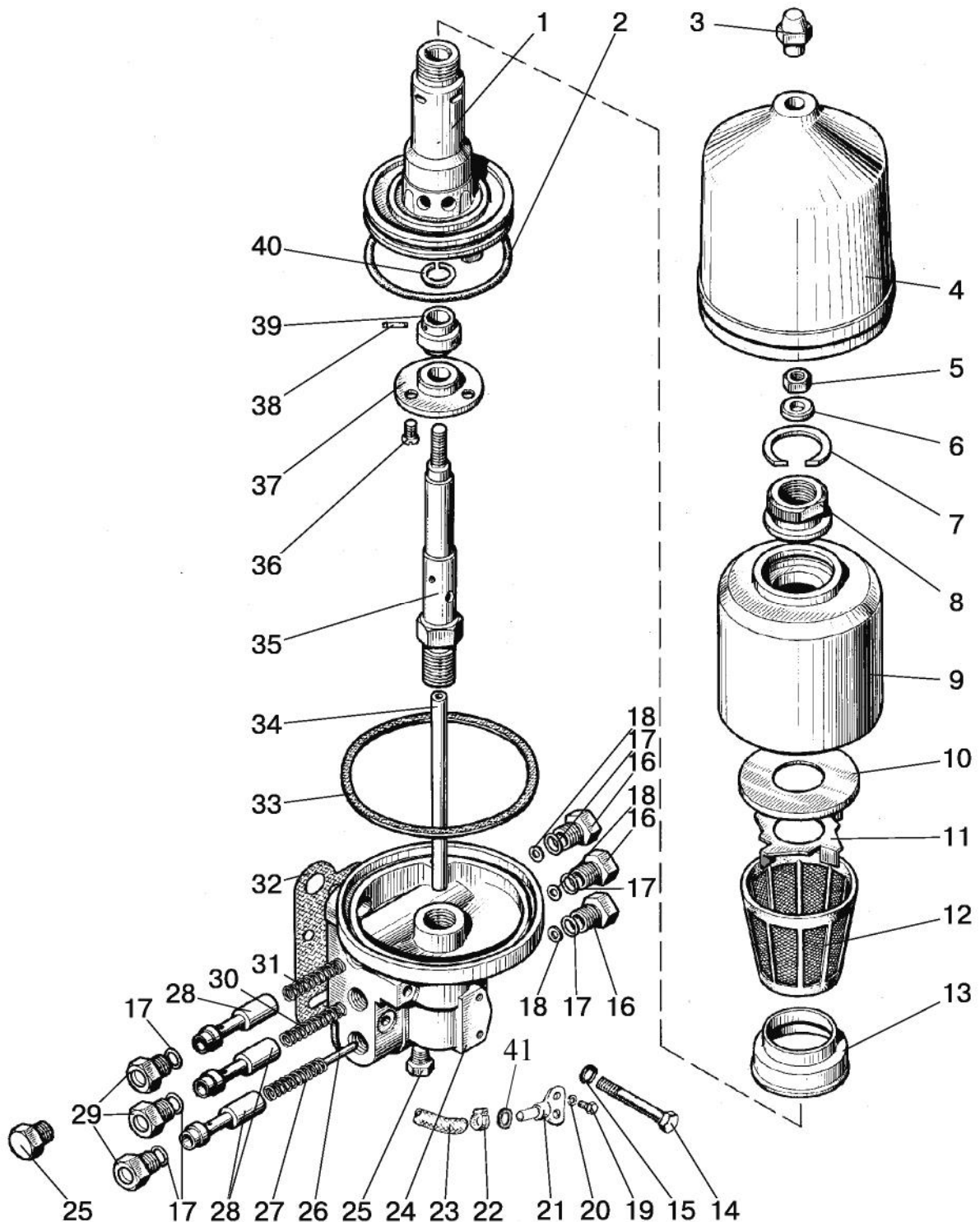


Fig. 17.16. Filter-distributor

**Group 17. Gearbox
Subgroup 1737. Filter-distributor**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
17.16		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 cage (7-9)
		80-1028080	1	Rotor axis (34, 35, 37-40)
		240-1404140	1	Gauze filter (10, 12)
	1	240-1404017-B	1	Rotor housing
	2	115-120-30-2-1 GOST 18829-73/ GOST 9833-73	1	Ring
	3	240-1404088	1	Cap nut
	4	240-1404027	1	Filter nut
	5	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	6	Д37А-1407607-B	1	Thrust washer
	7	240-1404033	1	Retaining ring
	8	240-1 404035-A	1	Special nut
	9	240-1404023	1	Rotor cage
	10	240-1404113	1	Cover
	11	240-1404024	1	Rotor impeller
	12	240-1404110	1	Gauze filter
	13	240-1404049	1	Inner cage
	14	M10-6gx70.88.35.019 GOST 7795-70	4	Bolt
	15	10 OT OST 37.001.115-75	4	Washer
	16	50-1404075	3	Valve plug
	17	1221-1737126	6	Washer
	18	C 5.01.019 GOST 11371-78	2 ¹⁾	Washer
	19	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	20	8T OST 37.001.115-75	2	Washer
	21	1221-2401005	1	Tube
	22	16-25	2	Clamp
	23	14x23-16	1	Hose L=750 (with hydraulic lift)
		14x23-16	1	Hose L=960 (with draft control unit)
	24	80-1737111	1	Housing
	25	КГ 1/8". A12.019	4	Plug
	26	6x45 GOST 3128-70	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-B1	1	Cap gasket
	34	240-1404013-B	1	Pipe
	35	240-1404012-B	1	Rotor axis
	36	B.M6-6gx14.58.019 GOST 17475-80	3	Screw
	37	240-1404019-B	1	Housing cover
	38	2401404028	1	Pin
	39	80-1028090-B	1	Head
	40	240-1404118	1	Ring
	41	017-022-30-1-4 GOST 18829-73/ GOST 9833-73	1	Ring

¹⁾ If needed

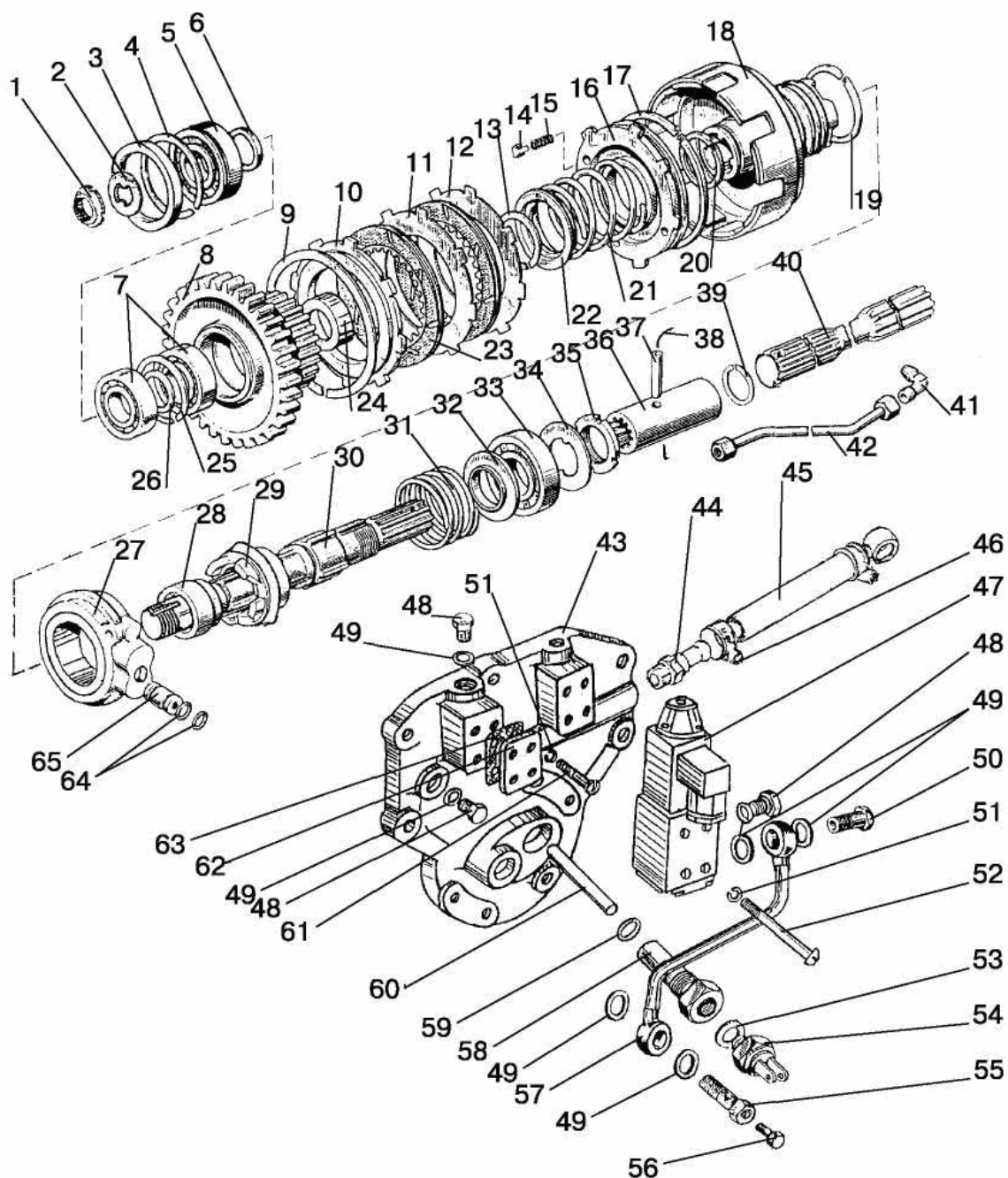


Fig.18.1. Drive of Front Driving Axle

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1220.1/1220.3/1220.4

Group 18. Drive of Front Driving Axle
Subgroup 1802. Drive of Front Driving Axle

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
18.1		1221-1802030	1	Friction (1221-1802040, 9-24, 27)
		1221-1802040	1	Gear (7, 8, 25, 26)
		1221-1802065-B	1	Shaft (30,32-38)
		1221-1802070	1	Shaft (39,40)
		8020-1802075	1	Guide (58,59)
	1	1221-1802023	1	Nut
	2	1221-1802019	1	Washer
	3	86-1802024-A	1	Bushing
	4	80-1701397	1	Ring
	5	6-50306K GOST8338-75/GOST2893-82	1	Bearing
	6	86-1802043	1	Washer
	7	206A GOST 8338-75	2	Bearing
	8	1221-1802041	1	Gear
	9	C135 GOST 13941-86	1	Ring
	10	86-1802034	1	Backing plate
	11	86-1802032 ¹⁾	3-4	Driven disk S=1,8 mm
	12	1221-1802032 ¹⁾	3-4	Driven disk S=2 mm
	13	C48 GOST 13940-86	1	Ring
	14	86-1802039	2	Guide
	15	86-1802048	2	Spring
	16	1221-1802031	1	Piston
	17	86-1802047	1	Ring
	18	1221-1802036	1	Drum
	19	86-1802083-A	2	Ring
	20	1221-1802333	1	Ring
	21	86-1802038	1	Spring
	22	86-1802046	1	Cage
	23	86-1802035-A	7	Driving disk
	24	1221-1802044	1	Bushing
	25	C62 GOST 13943-86	1	Ring
	26	86-1802049	1	Ring
	27	1221-1802025	1	Yoke
	28	86-1802028	1	Bushing
	29	8020-1802026	1	Semi-coupling
	30	1221-1802013-B	1	Shaft
	31	86-1802027	1	Spring
	32	86-1802051	1	Washer
	33	207 GOST 8338-75	1	Bearing
	34	86-1802052	1	Washer
	35	52-2308097	1	Nut
	36	86-1802014-B	1	Bushing
	37	A.8x40.65Г GOST 14229-93	1	Pin
	38	1,6-O-C GOST 3282-74	1	Wire (140 mm)
	39	86-1802017-B	1	Ring
	40	1221-1802042	1	Shaft
	41	86-1802088	1	Elbow
	42	86-1802055	1	Pipeline
	43	1221-1802016	1	Cover
	44	85-3407470	1	Coupling
	45	1221-1802068	1	Hose
	46	12-20/9C6W	1	Clamp "NORMA"
	47	RH06101-012/00GA-AMP 1PГE-6T/3.574E.Г12.O1	1	Hydraulic distributor valve
	48	1221-1802091	3	Thread plug
	49	Д18-055-A	7	O-ring
	50	Д18-051	1	Bolt
	51	5T OST 37.001.115-75	8	Washer

¹⁾ Selection

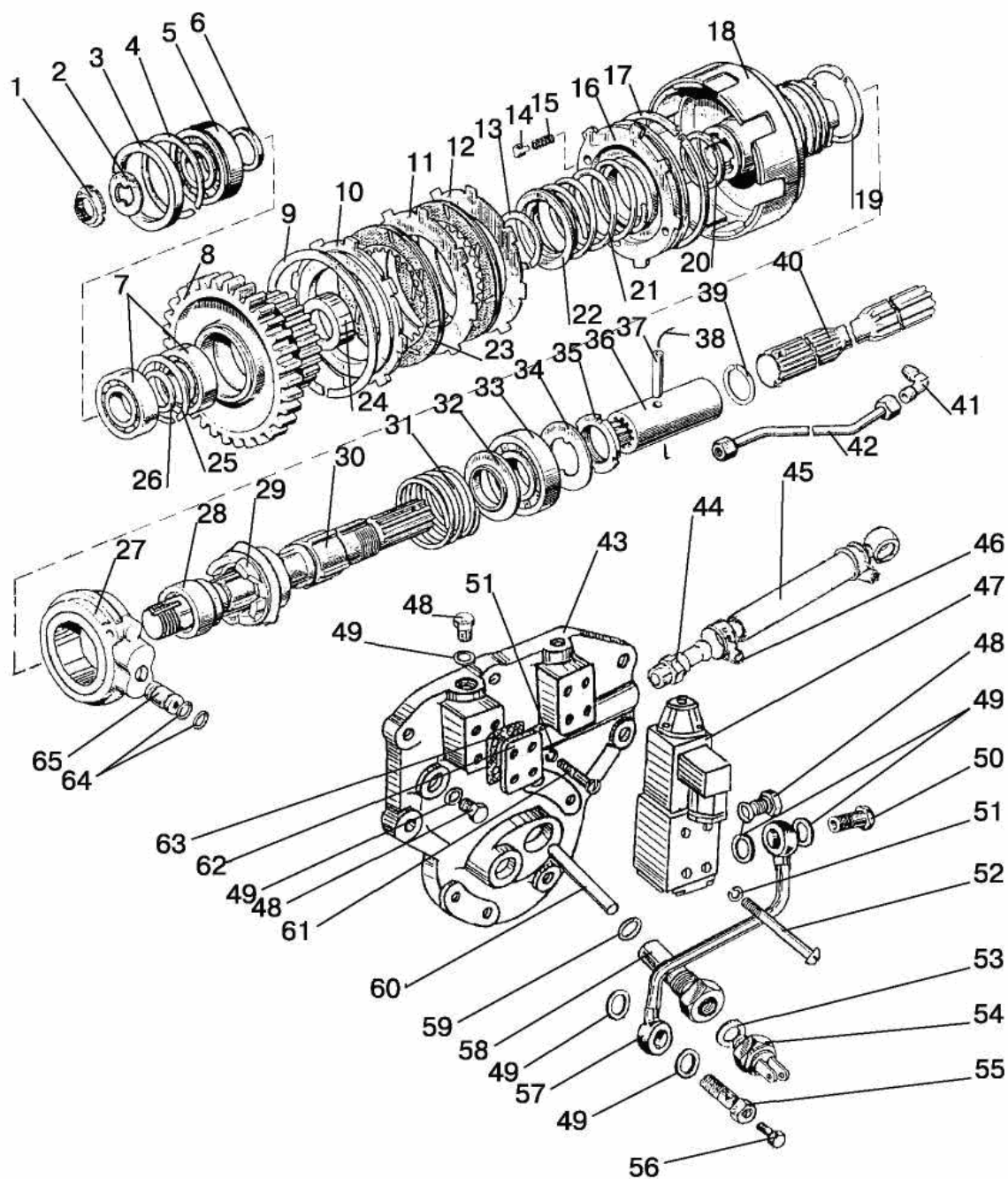


Fig.18.1. Drive of Front Driving Axle

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1220.1/1220.3/1220.4

Group 18. Drive of Front Driving Axle
Subgroup 1802. Drive of Front Driving Axle

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
18.1	52	B.M5-6gx50.58.019 GOST 17473-80	4	Screw
	53	50-1702048 ¹⁾	6max	Gasket
	54	BK12-51	1	Switch
	55	1520-1802088	1	Bolt
	56	КГ 1/8". A12.019 TU 23.1.506-91	1	Plug
	57	1221-1802050	1	Pipeline
	58	8020-1802018	1	Guide
	59	019-022-19-2-2 GOST 18829-73/GOST 9833-73	1	Ring
	60	8020-1802029	1	Pusher
	61	B.M5-6gx16.58.019 GOST 17473-80	4	Screw
	62	1221-1802012	1	Cover
	63	1025-1802019	1	Gasket
	64	011-016-30-2-4 GOST 18829-73/GOST 9833-73	2	Ring
	65	1221-1802054	1	Bushing

¹⁾ Selection

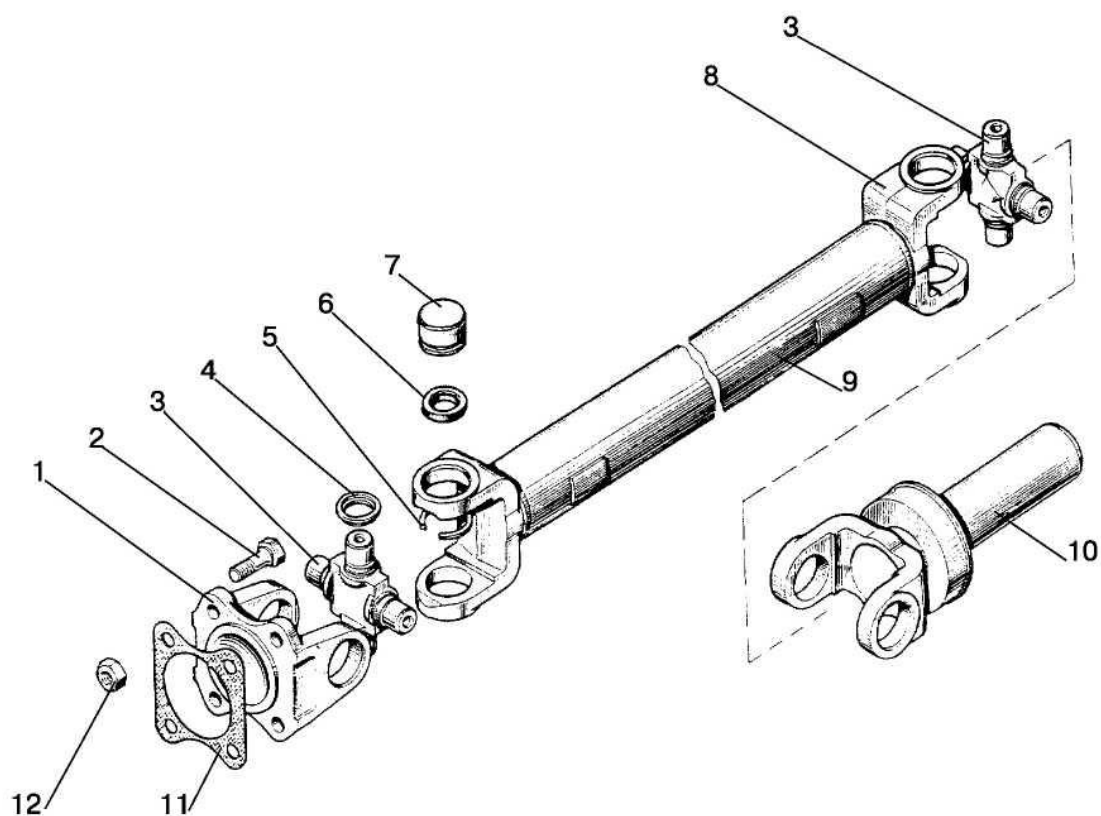


Fig.22.1. Cardan Drive

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1220.1/1220.3/1220.4

**Group 22. Cardan Drive
Subgroup 2203. Cardan Shaft**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
22.1		86-2203010-Б	1	Cardan shaft (1,3-10)
		72-2203025PH	1	Cross bar with bearings (3, 4, 6, 7)
	1	72-2201023	1	Flange
	2	52-2203012	4	Bolt
	3	72-2203030-01	2	Cross bar
	4	3102-2201037	8	Deflector
	5	34-2201043	8	Lock ring
	6	69-2201031-A	8	Collar
	7	704702K3C10	8	Bearing
	8	72-2203022	2	Fork
	9	86-2203018-02	1	Pipe
	10	86-2203047	1	Slip yoke
	11	20-2201024	1	Gasket
	12	M10x1-8 DIN 985	4	Hexagon nut

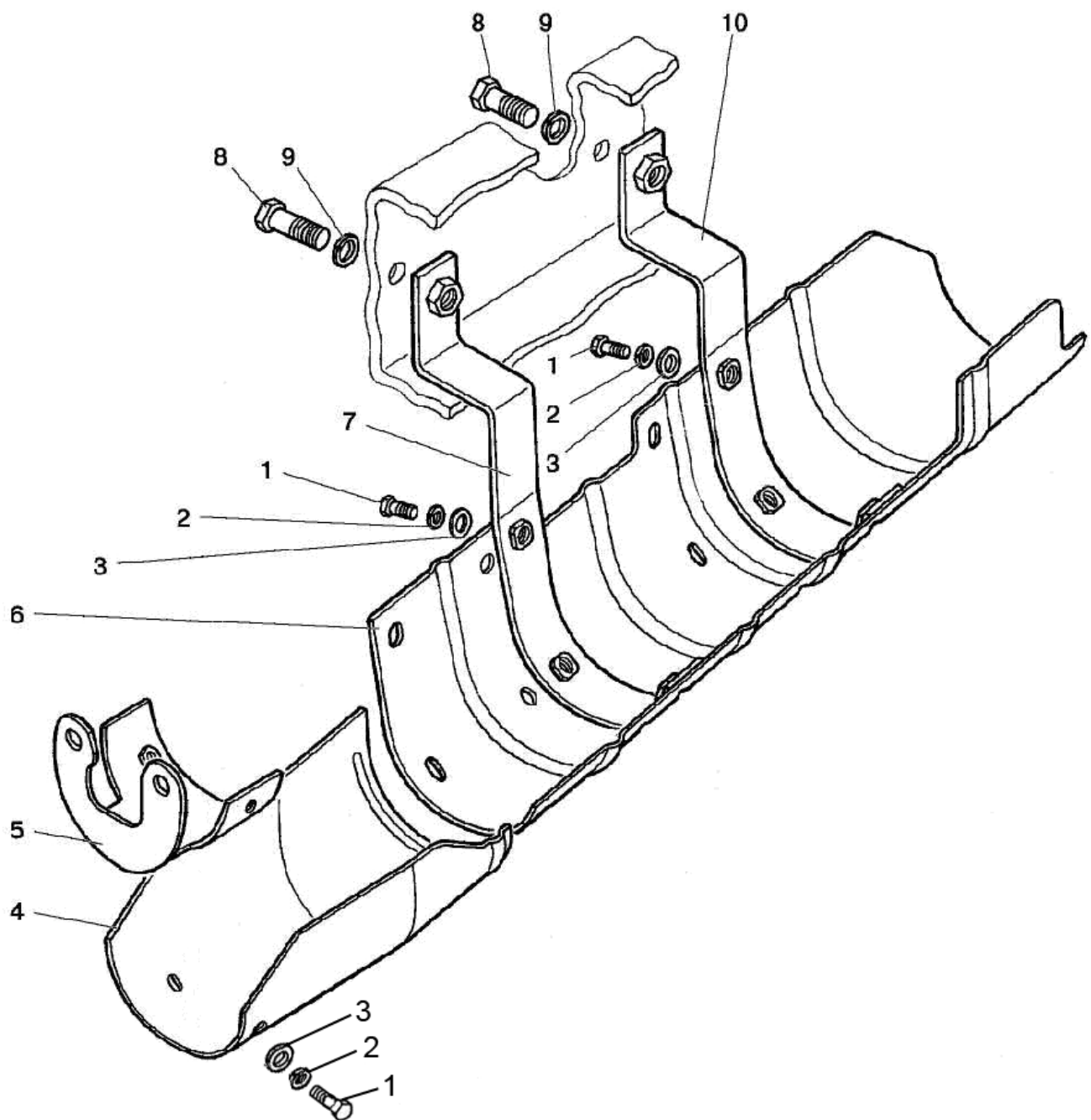


Fig.22.2. Guard

BELARUS**1220.1/1220.3/1220.4****Group 22. Cardan Drive****Subgroup 2210. Guard**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
22.2	1	M8-6gx20.88.35.019 GOST 7796-70	8	Bolt
	2	8T OST 37.001.115-75	8	Washer
	3	C 8.01.019 GOST 11371-78	8	Washer
	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 GOST 7796-70	2	Bolt
	9	16 OT OST 37.001.115-75	2	Washer
	10	1025-2210010	1	Bracket

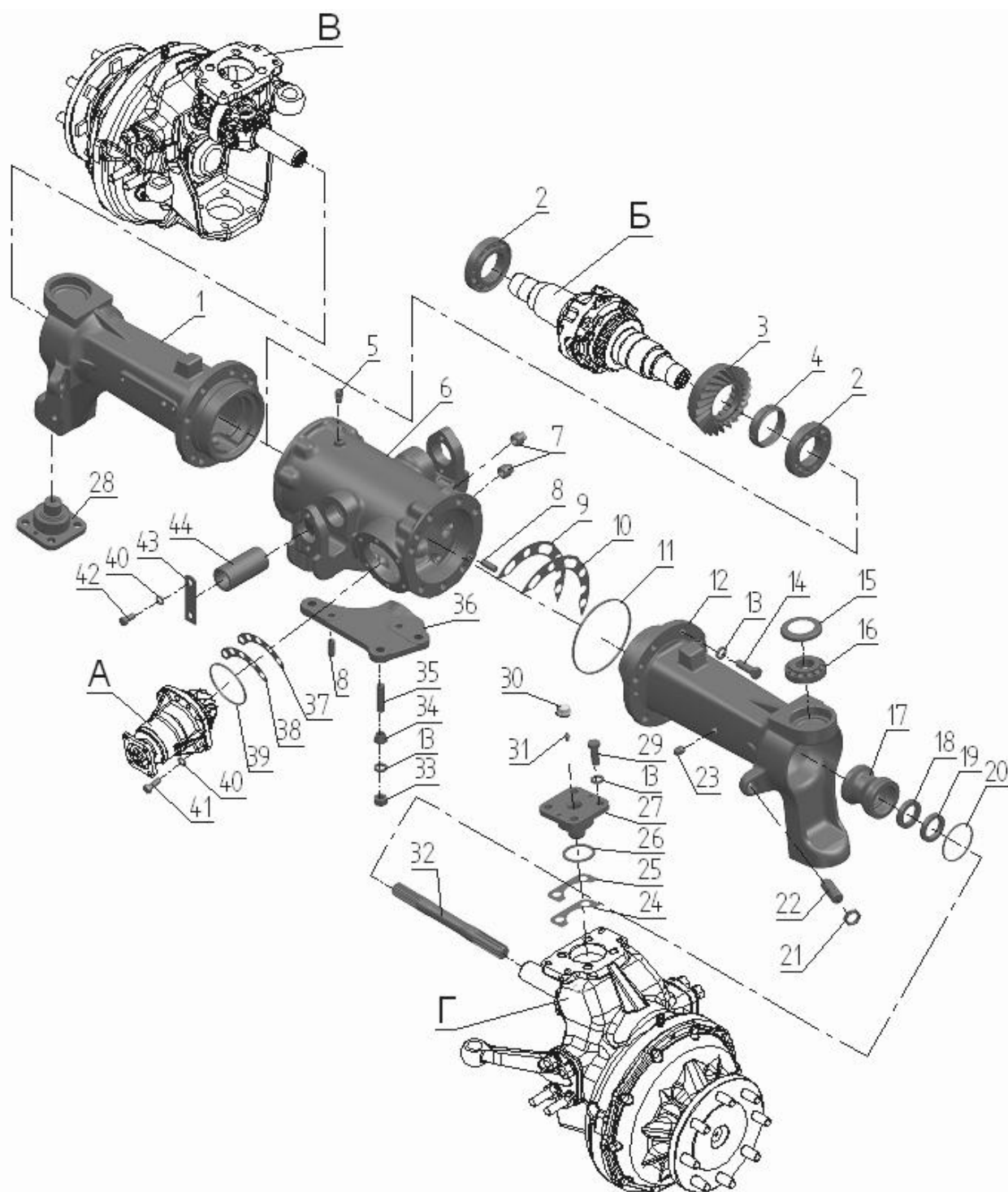


Fig.23.1. Front Driving Axle 822-2300020

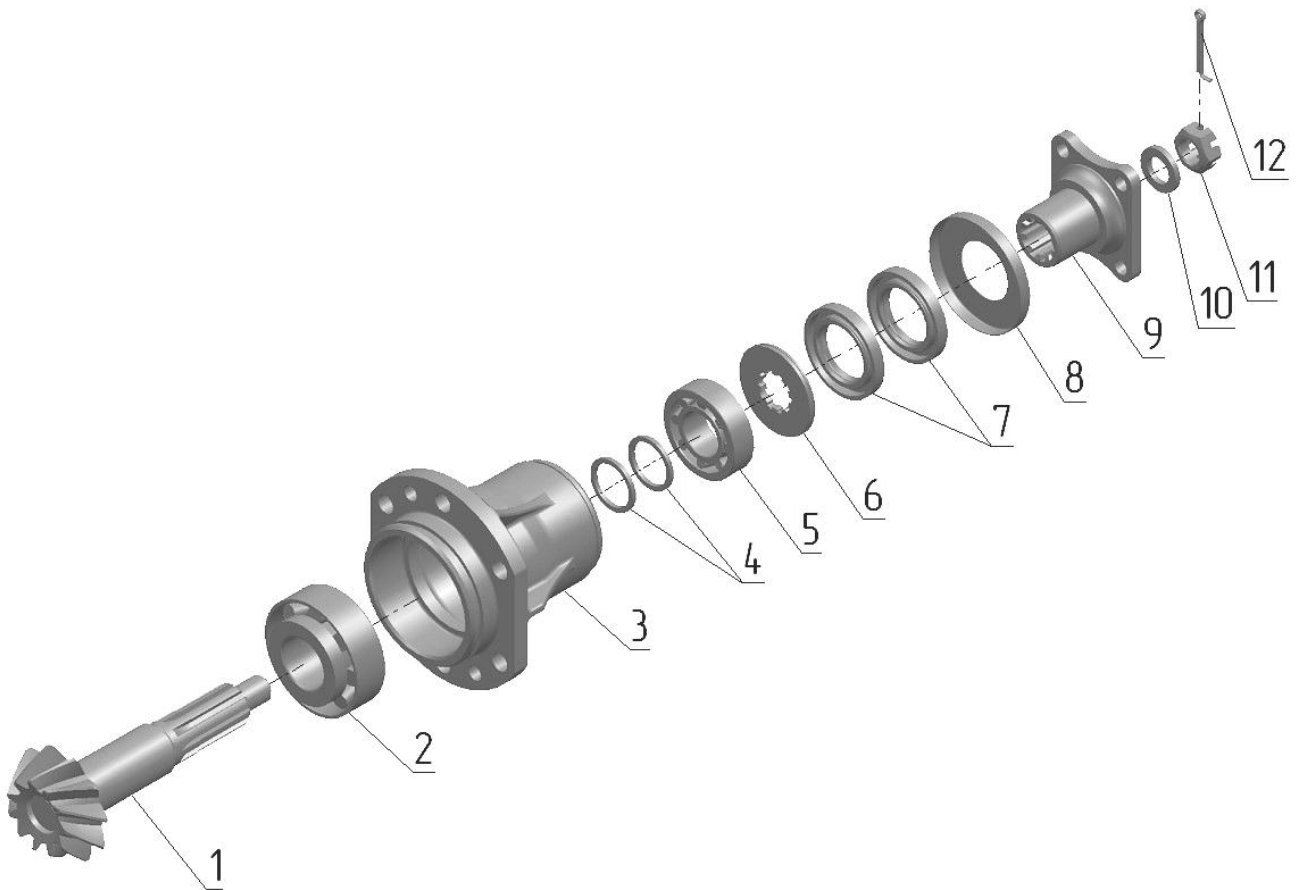
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Group 23. Front Driving Axle
Subgroup 2300. Front Driving Axle 822-2300020

Fig.No	Pos.No	Designation	Q-ty	Name
23.1		822-2300020 822-2300020-05¹⁾	1	Front driving axle assembly
	A	52-2302010	1	Gear (see Fig.23.2)
	B	52-2303010-B-01	1	Differential unit (see Fig.23.3)
	B	822-2308005-10 822-2308005-12 ¹⁾	1	Left final drive reduction gear unit of front driving axle (see Fig.23.4)
	Г	822-2308005-11 822-2308005-13 ¹⁾	1	Right final drive reduction gear unit of front driving axle (see Fig. 23.4)
		822-2308110	2	Yoke (17-20)
	1	822-2301051-01	1	Hose
	2	263212A TU BY 100103346.014-2008	2	Bearing
	3	52-2302019	1	Driven gear
	4	52-2302038-A1	1	Nut
	5	"MINTOR" TSS0G-1/8"	1	Breather
	6	72-2301055	1	Housing
	7	ПК КГ 3/4"	2	Plug
	8	Д01-015	6	Locating pin
	9	52-2303027	16(max)	Gasket B=0,5 mm
	10	52-2303028	16(max)	Gasket B=0,2 mm
	11	150-155-36-1-4 GOST 18829-73/9833-73	2	Ring
	12	822-2301053-01	1	Hose
	13	16 OT OST 37.001.115-75	33	Washer
	14	M16-6gx45.88.35.019 GOST 7796-70	14	Bolt
	15	1520-2308039	4	Cage
	16	1027307A (31307) GOST 27365-87	4	Bearing
	17	822-2308100	2	Yoke
	18	1.2-38x58-1 GOST 8752-79/OST 3805146-78	2	Collar
	19	2.2-38x58-1 GOST 8752-79/OST 3805146-78	2	Collar
	20	075-080-30-1-4 GOST 18829-73/9833-73	2	Ring
	21	85-3407113	2	Nut
	22	1520-2308009	2	Screw
	23	ПК КГ 3/8"	2	Plug
	24	52-2302021	6(max)	Gasket B=0,5 mm
	25	52-2302022	10(max)	Gasket B=0,2 mm
	26	055-063-46-1-4 GOST 18829-73/9833-73	4	Ring
	27	1520-2308037	3	Axis
	28	1520-2308037-01	1	Axis
	29	M16-6gx45.88.35.019 GOST 7796-70	16	Bolt
	30	85-4607447	4	Cap
	31	1.3.Ц9.xp GOST 19853-74	4	Oiler
	32	822-2308065-01	2	Shaft
	33	M16-6H.6.019 GOST 5915-70	3	Nut
	34	1520-2308077	3	Bushing
	35	1520-2308079	3	Stud
	36	922-2301023-B-01	1	Cylinder bracket
	37	1520-2308042	8(max)	Shim B=0,2 mm
	38	1520-2308042-01	20(max)	Shim B=0,5 mm
	39	089-095-36-1-4 GOST 18829-73/9833-73	1	Ring
	40	12 OT OST 37.001.115-75	10	Washer
	41	M12-6gx35.88.35.019 GOST 7796-70	6	Bolt
	42	M12-6gx25.88.35.019 GOST 7796-70	4	Bolt
	43	72-2301059-A1	2	Plate
	44	52-2301058-A4	2	Axis

¹⁾ Rear axle (z=27, Z=54)



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1220.1/1220.3/1220.4

Group 23. Front Driving Axle
Subgroup 2302. Main Gear of Front Driving Axle

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

Selected during the
bearing adjustment

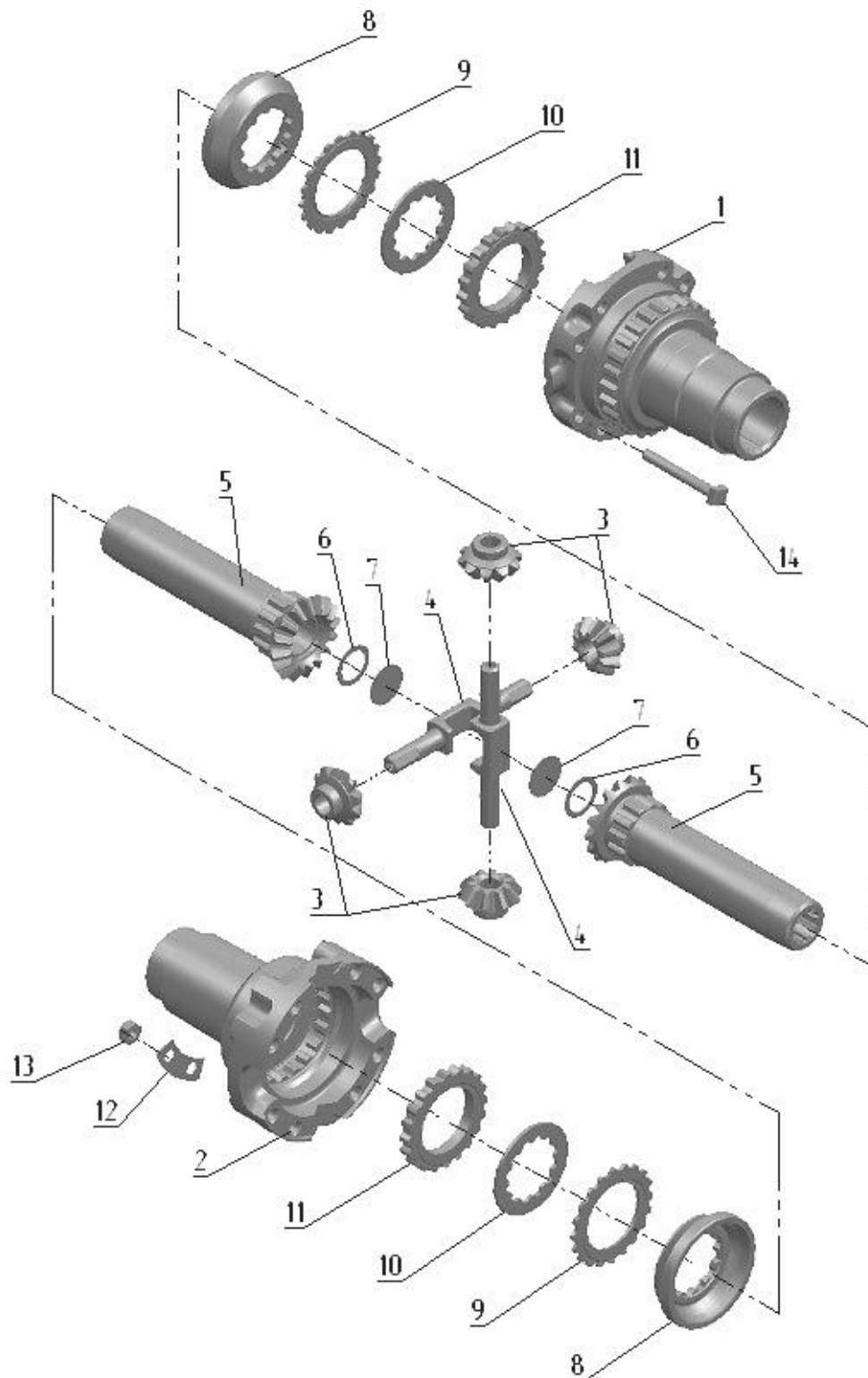


Fig.23.3. Differential Unit

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1220.1/1220.3/1220.4

Group 23. Front Driving Axle
Subgroup 2303. Differential Unit

Fig.No	Pos.No	Designation	Q-ty	Name
23.3		52-2303010-B-01	1	Differential unit (1-14) (Fig. 23.1)
		52-2303030	2	Gear (5-7)
	1	52-2303014-B	1	Box
	2	52-2303015-B	1	Box
	3	52-2303018	4	Satellite gear
	4	52-2303019	2	Axis
	5	52-2303017	2	Gear
	6	52-2303034	2	Gasket
	7	35-10кп.Ц9.xp GOST 3111-81	2	Blind plug
	8	52-2303021	2	Cup
	9	52-2303023-A1-01	2	Disk
	10	52-2303024-01	2	Disk
	11	52-2303023-A1	2	Disk
	12	52-2303032	4	Plate
	13	52-2303013	8	Nut
	14	52-2303026-B	8	Bolt

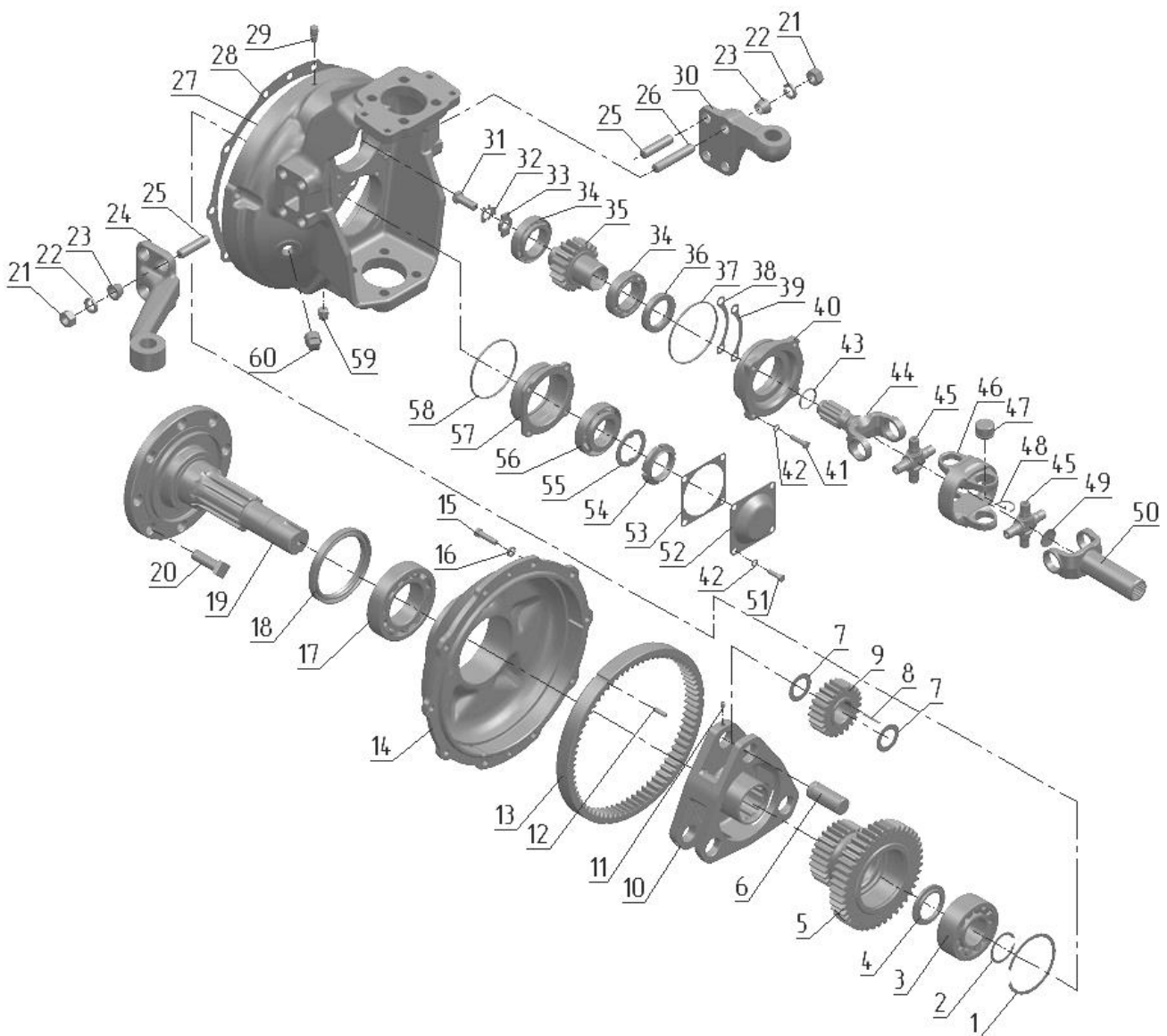


Fig.23.4. Final Drive Reduction Gear Unit of Front Driving Axle

Group 23. Front Driving Axle
Subgroup 2308. Final Drive Reduction Gear Unit of Front Driving Axle

Fig.No	Pos.No	Designation	Q-ty	Name
23.4		822-2308005-10 822-2308005-12 ¹⁾	1	Left reduction gear unit (1-60)
		822-2308005-11 822-2308005-13 ¹⁾	1	Right reduction gear unit (1-60)
		1520-2308024-20	2	Double hinge (44-50)
		1520-2308040-05 1520-2308040 ¹⁾	2	Housing (27, 29, 31-50)
		1520-2308080	2	Cage (36, 37, 40)
		1521-2308020	2	Cover (12-14)
		1521-2308030	2	Carrier (6-11)
		1521-2308050-05 1521-2308050 ¹⁾	2	Hub (1-20)
	1	2C100 GOST 13941-86	2	Ring
	2	C45 GOST 13940-86	2	Ring
	3	53609 GOST 24696-81	2	Bearing
	4	1520-2308038	2	Ring
	5	1520-2308062-05 1520-2308062 ¹⁾	2	Gear unit (z=40) Gear unit (z=44)
	6	1520-2308053	6	Axis
	7	1520-2308054	12	Washer
	8	4x34,8A3 GOST 6870-81	156	Roller
	9	1520-2308059	6	Satellite gear
	10	1521-2308056	2	Carrier
	11	1520-2308011	6	Screw
	12	2.8x25 GOST 3128-70	6	Pin
	13	1520-2308064	2	Gear
	14	1521-2308016	2	Cover
	15	M10-6gx35.88.35.019 GOST 7796-70	20	Bolt
	16	10 OT OST 37.001.115-75	20	Washer
	17	7514A GOST 27365-87	2	Bearing
	18	2.2-100x125-1 GOST 8752-79/OST 3805146-78	2	Collar
	19	1521-2308017	2	Flange
	20	40-3103016	16	Front wheel bolt
	21	M16-6H.6.019 GOST 5915-70	12	Nut
	22	16 OT OST 37.001.115-75	12	Washer
	23	1520-2308077	12	Bushing
	24	822-2308074	1	Left lever
		822-2308075	1	Right lever
	25	1520-2308079	11	Stud
	26	1520-2308079-02	1	Stud
	27	1520-2308015	2	Housing
	28	1520-2308034	2	Gasket
	29	"MINTOR" TSS0G-1/8"	2	Breather
	30	1021-2308076	1	Bracket
	31	1521-2308012	2	Bolt
	32	1521-2308031	2	Lock plate
	33	1521-2308013	2	Washer
	34	2007109 GOST 27365-87	4	Bearing
	35	1520-2308061-05 1520-2308061 ¹⁾	2	Gear (z=14) Gear (z=17)
	36	2.2-45x65-1 GOST 8752-79/OST 3805146-78	2	Collar

¹⁾ Rear axle (z=27, Z=54)

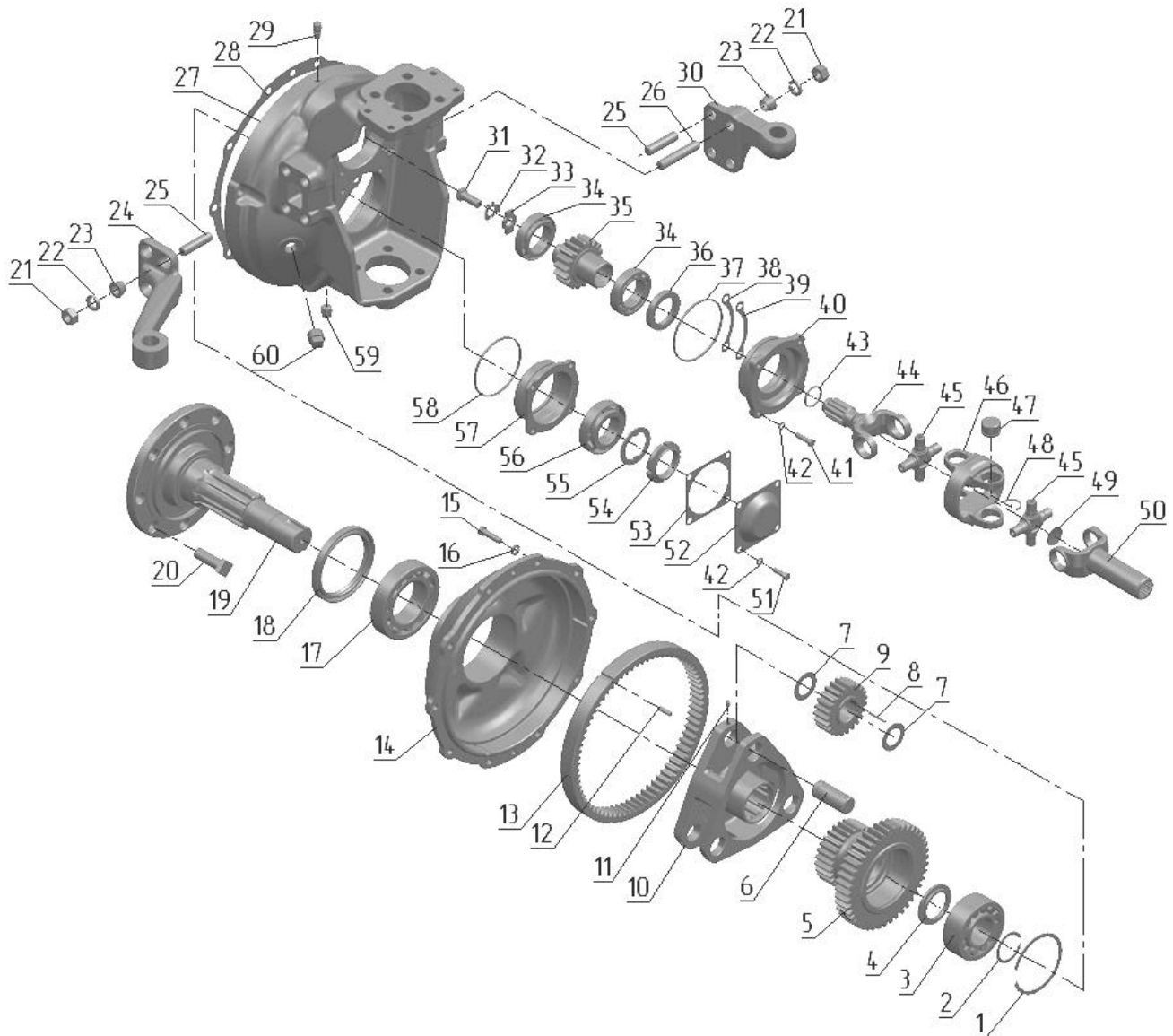


Fig.23.4. Final Drive Reduction Gear Unit of Front Driving Axle

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1220.1/1220.3/1220.4

Group 23. Front Driving Axle

Subgroup 2308. Final Drive Reduction Gear Unit of Front Driving Axle

Fig.No	Pos.No	Designation	Q-ty	Name
23.4	37	100-105-30-2-4 GOST 18829-73/GOST 9833-73	2	Ring
	38	1520-2308021	20(max)	Shim B=0,2 mm
	39	1520-2308021-01	8(max)	Shim B=0,5 mm
	40	1520-2308035	2	Cage
	41	M8-6gx35.88.35.019 GOST 7796-70	8	Bolt
	42	8T OST 37.001.115-75	16	Washer
	43	032-036-25-2-4 OST 18829-73/GOST 9833-73	2	Ring
	44	1520-2308063-10	2	Fork
	45	72-2203026-11	4	Cross bar
	46	15.22.01.013-10	2	Double hinge fork
	47	704702K3C10 TU 37.006.065-90	16	Bearing
	48	24-2201043-01	16(max)	Lock ring
		24-2201043-10	16(max)	Lock ring
		24-2201043-20	16(max)	Lock ring
		24-2201043-30	16(max)	Lock ring
	49	32	2	Blind plug
	50	1520-2308048	2	Fork
	51	M8-6gx25.88.35.019 GOST 7796-70	8	Bolt
	52	1520-2308004	2	Cover
	53	1520-2308003	2	Gasket
	54	80-1701045	2	Nut
	55	80-1701056	2	Washer
	56	7509A GOST 27365-87	2	Bearing
	57	1520-2308002	2	Cage
	58	095-100-30-1-4 GOST 18829-73/9833-73	2	Ring
	59	ПК КГ 3/8"	2	Plug
	60	ПК КГ 3/4"	2	Plug

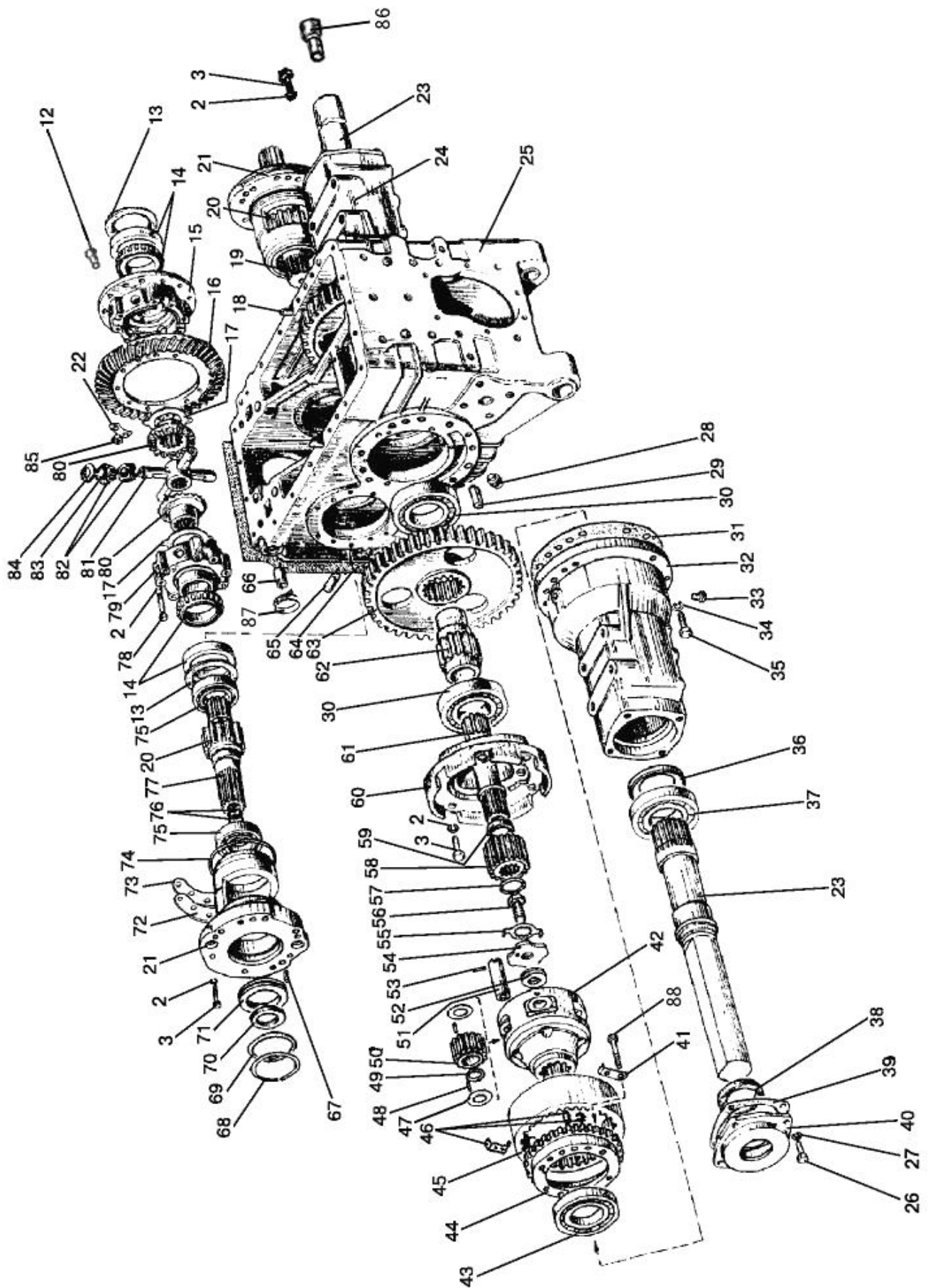


Fig. 24.1 Rear Axle. Differential Unit. Final Drives

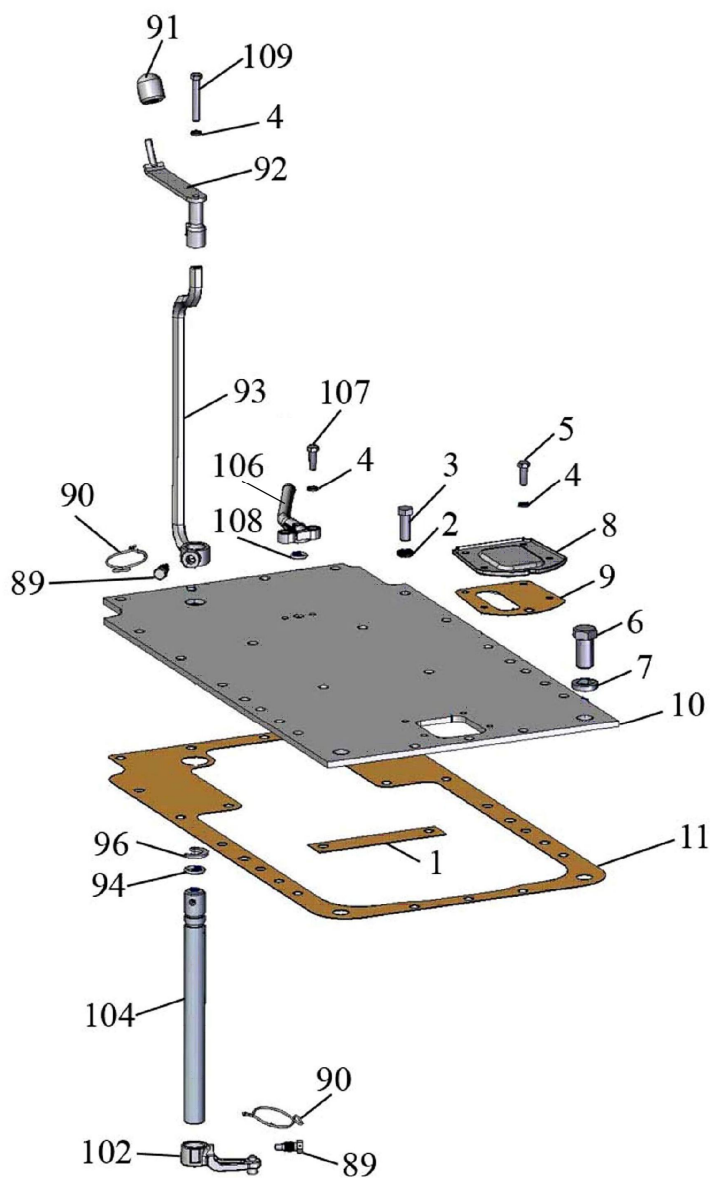


Fig. 24.1a. Rear Axle. Differential Unit. Final Drives

Group 24. Rear Axle

Subgroup 2401, 2403, 2407. Rear Axle. Differential Unit. Final Drives

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
24.1 24.1a		1221-2401010-05	1	Rear axle (z=27, Z=54; dry brakes)
		1221M-2401010-05	1	Rear axle (z=27, Z=54; wet brakes)
		1221-2401010-07	1	Rear axle (z=24, Z=56; dry brakes)
		1221M-2401010-07		Rear axle (z=24, Z=56; wet brakes)
		1221-2401015-05	1	Rear axle housing (25, 65, 66, 86)
		1522-2403010-A	1	Differential unit (2, 12, 14, 16, 17, 22, 80-85)
		1522-2403015-02	1	Differential unit housing (15, 79)
		1221-2407060-02	1	Left cage (13, 20, 21, 68-71, 74-77) (z=27, Z=54; dry brakes)
		1221M-2407060	1	Left cage (13, 20, 74, 75, 77, 89) (z=27, Z=54; wet brakes)
		1521-2407060	1	Left cage (13, 14, 20, 21, 74-77) (z=24, Z=56; dry brakes)
		1523M-2407060-02	1	Left cage (13, 74, 75, 77, 89) (z=24, Z=56; wet brakes)
		1221-2407060-03	1	Right cage (13, 19-21, 68-71, 74-76) (z=27, Z=54; dry brakes)
		1221M-2401060-01	1	Right cage (13, 19-21, 74, 75) (z=27, Z=54; wet brakes)
		1521-2407060-01	1	Right cage (13, 19-21, 68-71, 74-76) (z=24, Z=56; dry brakes)
		1523M-2407060-03	1	Right cage (13, 19-20, 74, 75) (z=24, Z=56; wet brakes)
		1221-2407540	2	Drive gear (57-59, 61)
		1221-2407500	1	Left final drive (23, 26, 27, 29, 32, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (dry brakes)
		1221-2407500-02	1	Left final drive (23, 26, 27, 29, 32, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (wet brakes)
		1221-2407500-01	1	Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (dry brakes)
		1221-2407500-03	1	Right final drive (23, 24, 26, 27, 33, 36, 37, 39, 41, 43-46, 52, 54-56) (wet brakes)
		1221-2407535-A1	2	Carrier (42, 47-51, 53)
		1221-2407030	2	Cover (38, 40)
		1221-2407130	2	Cage (30, 60)
	1	1221-2401028	1	Gasket
	2	12 OT OST 37.001.115-75	24	Washer
	3	M12-6gx35.88.35.019 GOST 7796-70	24	Bolt (dry brakes)
		80M-2407041	14	Bolt (wet brakes)
	4	8T OST 37.001.115-75	7	Washer
	5	M8-6gx25.88.35.019	4	Bolt
	6	600-2401026	2	Bolt
	7	20 OT OST 37.001.115-75	4	Washer
	8	1221-2401026	1	Cover
	9	50-2401027-A	1	Gasket
	10	1221-2401024	1	Cover
	11	1221.1-2401025	1	Gasket
	12	50-1702092	12	Tight-fitting bolt M12x42
	13	1221-2407043	2	Ring
	14	7216A GOST 27365-87 or SNR 30216 A	2	Bearing
	15	1522-2403018-02	1	Housing

Group 24. Rear Axle
Subgroup 2401, 2403, 2407. Rear Axle. Differential Unit. Final Drives

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
24.1 24.1a	16	50-2403021-B	1	Driven gear
	17	1220-2403049	2	Thrust washer
	18	Д01-015	2	Pin
	19	1521-2407053-01	1	Shaft (dry brakes)
		1221M-2407053-01	1	Shaft (wet brakes)
	20	1221-2407052	2	Gear (z=27, Z=54)
		1522-2407052	2	Gear (z=24, Z=56)
	21	1221-2407042	2	Bearing carrier (dry brakes)
		1221M-2407042-01	1	Right bearing cage (wet brakes)
		1221M-2407042	1	Left bearing cage (wet brakes)
	22	50-2403023	6	Lock plate
	23	1221-2407082	2	Semi-axis
	24	1221-2407018-B-01	1	Right semi-axis tube (dry brakes)
		1221M-2407018-01	1	Right semi-axis tube (wet brakes)
	25	1221-2401016-05	1	Housing C420 GOST 1412-85
	26	M10-6gx25.88.35.019 GOST 7796-70	8	Bolt
	27	10 OT OST 37.001.115-75	8	Washer
	28	70-1701300	1	Magnetic plug 1 ¹ / ₄
	29	1221-2407508-01	4	Pin
	30	217 A GOST 8338-75	4	Bearing
	31	1221-2407552	2	Gasket
	32	1221-2407018-B	1	Left semi-axis tube (dry brakes)
		1221M-2407018		Left semi-axis tube (wet brakes)
	33	КГ 1/8". A12.019	2	Plug
	34	16 OT OST 37.001.115-75	22	Washer
	35	M16-6gx60.88.35.019 GOST 7795-70	22	Bolt
	36	142-2407091	2	Ring
	37	7218A GOST 27365-87	2	Bearing
	38	2.2-90x120-1 GOST 8752-79/ OST 3805146-78	2	Collar
	39	1221-2407089	2	Gasket
	40	1221-2407028	2	Cover
	41	1221-2407503-A	4	Plate
	42	1221-2407536-B	2	Carrier
	43	7217A GOST 27365-87	2	Bearing
	44	1221-2407502-B	2	Epicycle hub
	45	5336-2405050-A or 5336-2405050-A2 or 5336-2405050-A3	2	Driven gear
		1221-2407512		Pin
		1221-2407504		Plate
	46	54.38.619	4	Lock ring
		1221-2407538	16	Satellite gear washer
	47	1221-2407538	16	Satellite gear washer
	48	5x27,8 A3 GOST 6870-81	368	Roller
	49	1221-2407539	8	Distance washer
	50	5336-2405035-A	8	Satellite gear
	51	1221-2407556-A	8	Satellite gear axis
	52	1221-2407506	12	Gasket 0,5 mm
		1221-2407506-01	12	Gasket 0,2 mm
	53	A.8x45.65Г GOST 14229-93	8	Pin
	54	1221-2407537	2	Washer
	55	1221-2407507	2	Washer

Group 24. Rear Axle

Subgroup 2401, 2403, 2407. Rear Axle. Differential Unit. Final Drives

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
24.1 24.1a	56	70-4605036	2	Bolt
	57	2C55	2	Ring
	58	5336-2405028-A or 5336-2405028	2	Drive gear
	59	1221-2407542	2	Bushing
	60	1221-2407131	2	Cage
	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 GOST 13943-86	2	Ring (dry brakes)
	69	115-120-30-2-2 GOST 18829-73/ GOST9833-73	2	Ring (dry brakes)
	70	2.2-52x75-1 GOST 8752-79/ OST 3805146-78	2	Collar (dry brakes)
	71	1221-2407081	2	Yoke (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 or 200-205-36-2-2 GOST 18829-73/GOST 9833-73	2	Ring
	75	311A GOST 8338-75 or 6-311AW1 GOST 8338-75	4	Bearing
	76	035-040-30-1-4 GOST 18829-73/ GOST 9833-73	4	Ring (dry brakes)
	77	1521-2407053	1	Shaft (dry brakes)
		1221M-2407053	1	Shaft (wet brakes)
	79	1522-2403019-02	1	Cover
	80	1522-2403048	2	Semi-axis gear
	81	1522-2403062-E	1	Cross bar
	82	1522-2403057-E	4	Satellite gear
	83	4x29,8 A3 GOST 6870-81	100	Roller
	84	1522-2403025-E	4	Satellite gear washer
	85	M12-6H.6.019 GOST 5915-70	12	Nut
	86	50-4216024	1	Bushing
	87	2.2-25x42-1 GOST 8752-79/ OST 3805146-78	2	Collar
	88	1221-2407505	24	Bolt
	89	36-1702110	2	Screw
	90	1,6-O-C GOST 3282-74	2	Wire (200 mm)
	91	A13.11.000-02	1	Handle
	92	85-2401080-A	1	Lever
	93	74-2401050	1	Lever
	94	020-025-30-1-4 GOST 18829-73/ GOST 9833-73	1	Ring
	96	50-2401031	1	Washer
	102	50-2401020	1	Shifter arm
	104	1221-2401019	1	Shaft
	106	1221-2400030	1	Tube
	107	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	108	017-022-30-1-4 GOST 18829-73/ GOST 9833-73	1	Ring
	109	M8-6gx55.88.35.019 GOST 7795-70	1	Bolt

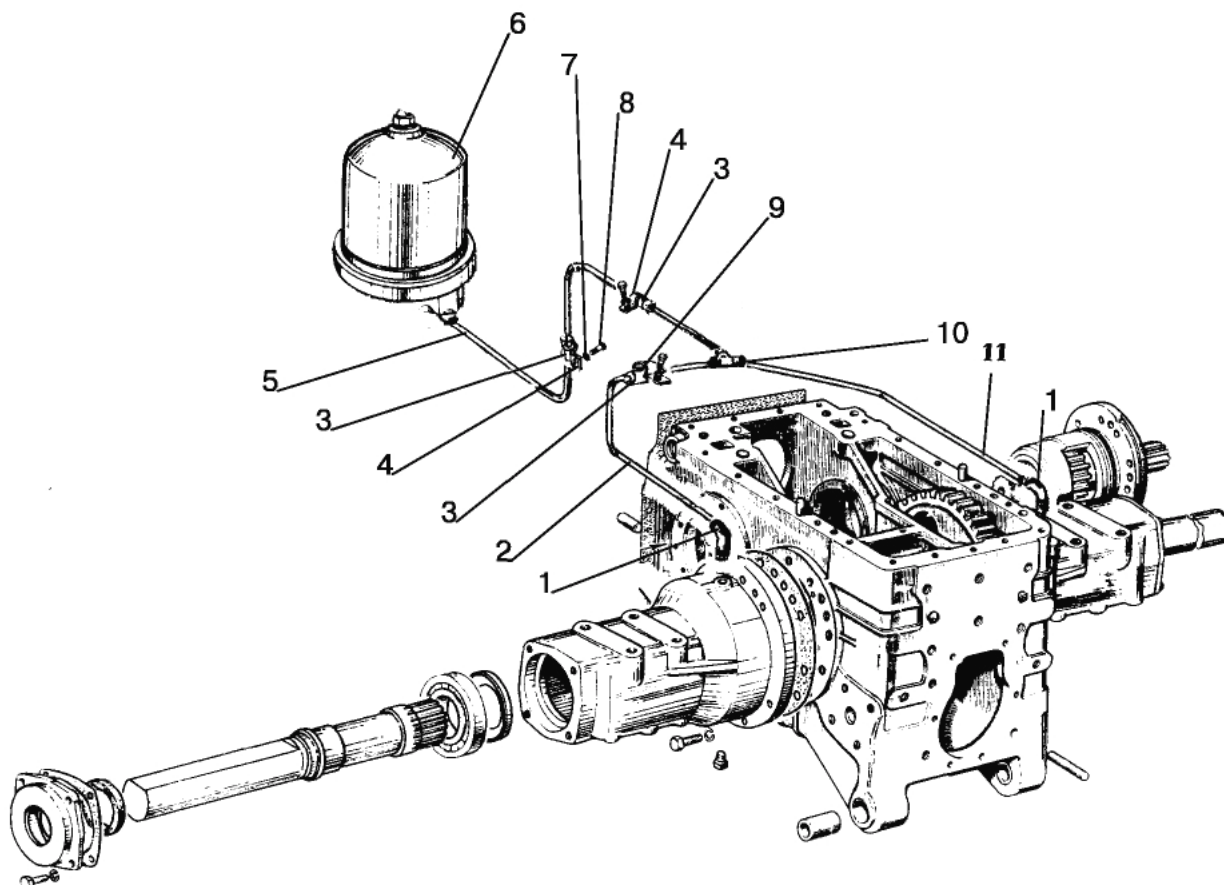


Fig. 24.2. Final Drive (Lubricant)

**Group 24. Rear Axle
Subgroup 2401. Final Drive (Lubricant)**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
24.2	1	86-1802088	2	Elbow
	2	1522-2407330	1	Oil pipeline
	3	1522-2407317	3	Pipe
	4	70-4802046	2	Clamp
	5	1522-2407310	1	Oil pipeline
	6	80-1737110	1	Filter
	7	10 OT OST 37.001.115-75	1	Washer
	8	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	9	70-4802043	1	Clinch rivet
	10	1221-2407288-02	1	Three way pipe
	11	1522-2407320	1	Oil pipeline

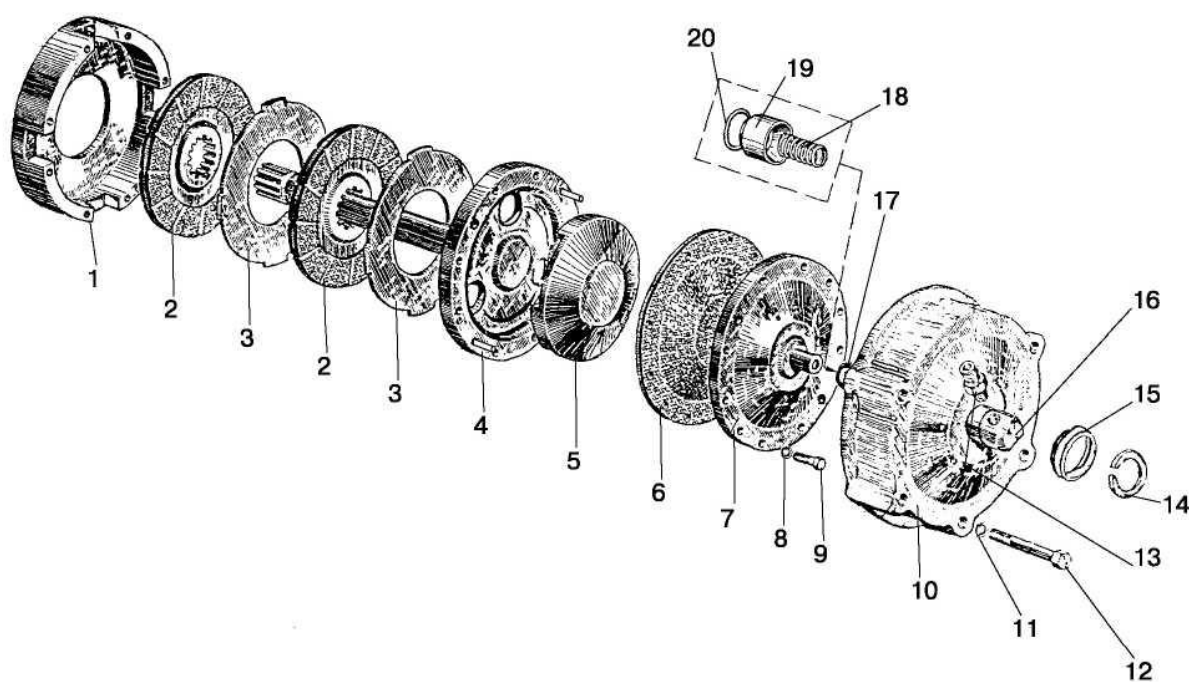


Fig.24.3 Differential Locking Mechanism

**Group 24. Rear Axle
Subgroup 2409. Differential Locking Mechanism**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
24.3		70-2409010-B 70-2409010-B-01 ¹⁾	1	Lockup coupling (1-9)
		82P-2409050	1	Adapter (10,13-20)
	1	70-2409015-A	1	Coupling housing
	2	70-3502040-01 or 70-3502040-04	2	Brake disk
	3	70-2409028	2	Release disk
	4	70-2409020 70-2409020-01 ¹⁾	1	Lockup shaft
	5	70-2409018	1	Pressure disk
	6	70-2409021	1	Diaphragm
	7	70-2409030-B	1	Diaphragm cover
	8	8T OST 37.001.115-75	8	Washer
	9	M8-6gx40.88.35.019 GOST 7795-70	8	Bolt
	10	70-2409035-A6	1	Casing
	11	12 OT OST 37.001.115-75	5	Washer
	12	M12-6gx200.58.019 GOST 7795-70	5	Bolt
		1522-2409034 ¹⁾	5	Bolt
	13	70-2409037	1	Coupling
	14	C40 GOST 13940-86	1	Ring
	15	82P-2409036-A	1	Seal
	16	70-2409026-B	1	Adapter
	17	020-025-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	18	54-06-448-A	1	Spring
	19	70-2409027-A	1	Bushing
	20	70-2409033-B	1	Ring

¹⁾ For tripple-disk brakes.

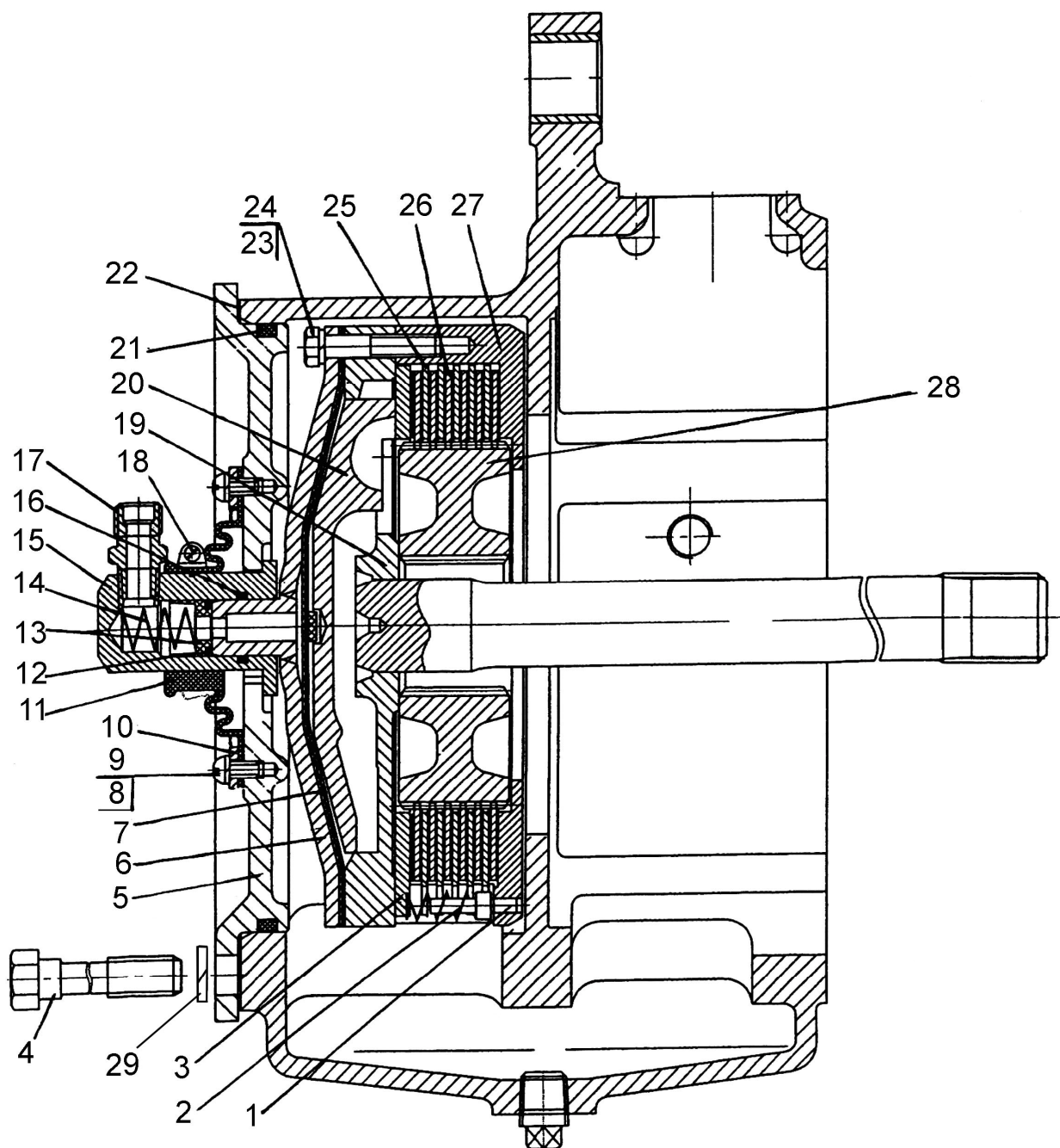


Fig.24.4 Differential Locking Mechanism of Wet Type

Group 24. Rear Axle
Subgroup 2409. Differential Locking Mechanism of Wet Type

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
24.4		80M-2409010	1	Lockup coupling (1-3, 6, 7, 19, 20, 23-28)
		1221M-2409050	1	Adapter (5,8-18,21)
	1	80M-2409002	4	Pin
	2	50-1702148-A	4	Detent spring
	3	80M-2409028	1	Release disk (S=4,7mm)
		80M-2409028-01	1 ¹⁾	Release disk (S=4,4mm)
		80M-2409028-02	1 ¹⁾	Release disk (S=4,1mm)
		80M-2409028-03	1 ¹⁾	Release disk (S=3,8mm)
		80M-2409028-04	1 ¹⁾	Release disk (S=3,5mm)
		80M-2409028-05	1 ¹⁾	Release disk (S=3,2mm)
		80M-2409028-06	1 ¹⁾	Release disk (S=3,0mm)
	4	1221M-3502039	5	Bolt
	5	1221M-2409034	1	Cover
	6	70-2409030-B	1	Diaphragm cover
	7	70-2409021	1	Diaphragm
	8	B.M6-6gx10.58.019 GOST 17473-80	8	Screw
	9	6T OST 37.001.115-75	8	Washer
	10	80M-2409037	1	Ring
	11	80M-2409036	1	Seal
	12	70-2409033-B	1	Ring
	13	70-2409027-A	1	Bushing
	14	54-06-448-A	1	Spring
	15	70-2409026-B	1	Adapter
	16	020-025-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	17	70-2409037	1	Coupling
	18	"NORMA" 32-50/9C6W	1	Clamp
	19	70-2409020-02	1	Lockup shaft
	20	80M-2409018	1	Pressure disk
	21	205-215-58-2-2 GOST 18829-73/GOST 9833-73	1	Ring
	22	1221M-2409051	1	Gasket
	23	M8-6gx40.88.35.019 GOST 7795-70	8	Bolt
	24	8T OST 37.001.115-75	8	Washer
	25	80M-2409016	5	Intermediate disk
	26	2522-1802035-A	6	Drive disk
	27	80M-2409015	1	Coupling housing
	28	80M-2409001	1	Hub
	29	14 OT OST 37.001.115-75	5	Washer

¹⁾ Selected during assembling for providing needed gap

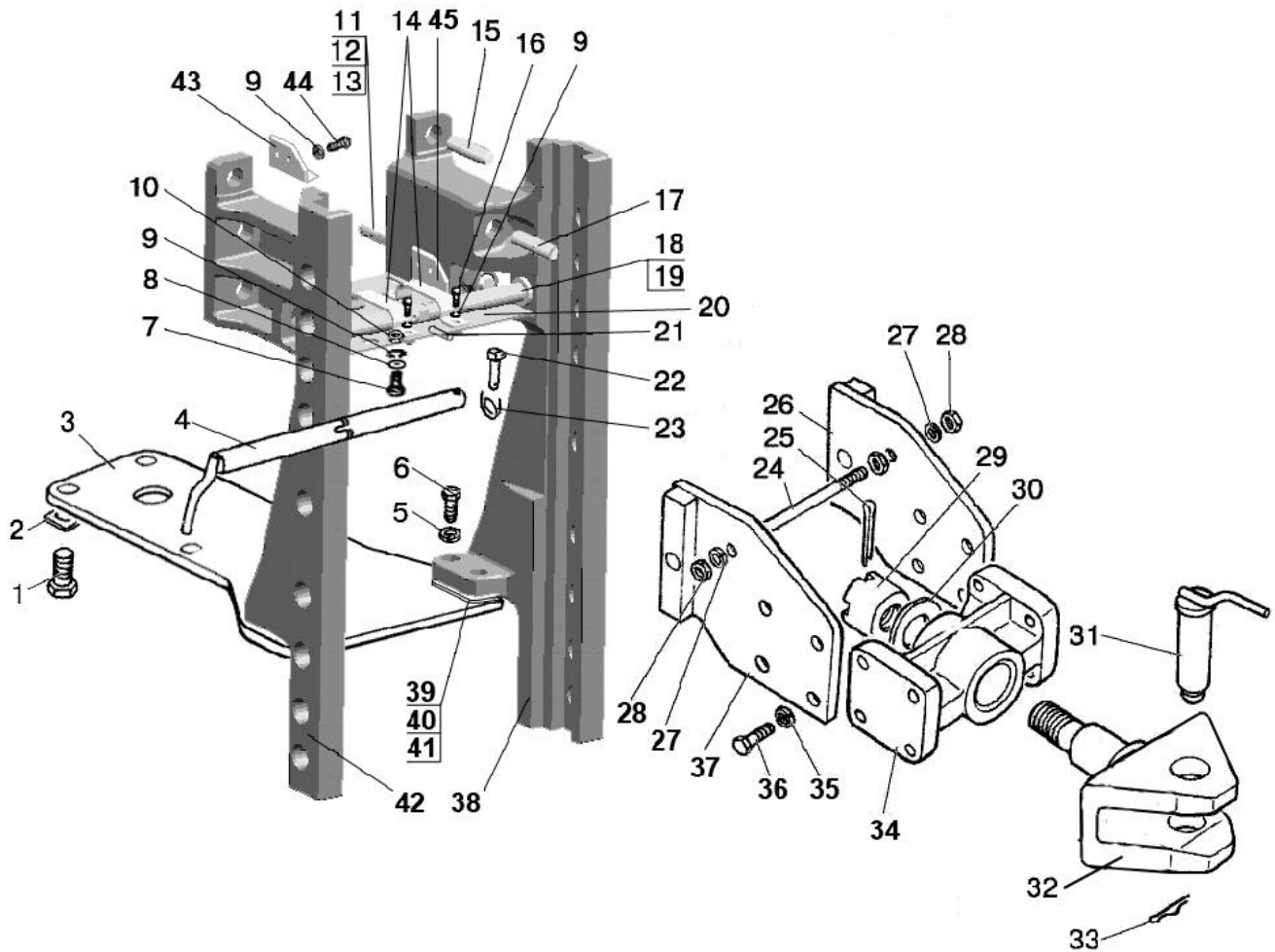


Fig. 27.1. Drawbar Hitch

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1220.1/1220.3/1220.4

Group 27. Trailing Appliance
Subgroup 2707. Drawbar Hitch

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
27.1		1322-2707210	1	Drawbar hitch
	1	1321-2707014	4	Bolt
	2	1222-2707137	2	Plate
	3	1321-2707011-B	1	Plate
	4	1321-2707030	1	Pin
	5	16 OT OST 37.001.115-75	4	Washer
	6	1220-4605506	4	Bolt
	7	M6-6gx18.88.35.019 GOST 7798-70	1	Bolt
	8	C 6.01.019 GOST 11371-78	1	Washer
	9	6T OST 37.001.115-75	9	Washer
	10	M6-6H.6.019 GOST 5915-70	1	Nut
	11	921-2707068-02	2	Stud
	12	M20x1,5-6H.6.019 GOST 5915-70	6	Nut
	13	20 OT OST 37.001.115-75	6	Washer
	14	1321-2707083-B	2	Jokey
	15	921-2707068	2	Stud
	16	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	17	921-2707068-03	2	Stud
	18	1322-2707274	1	Buckle
	19	1322-2707211	1	Bushing
	20	1322-2707280	1	Board assembly
	21	A.6x30.65Г GOST 14229-93	1	Pin
	22	A61.05.005	1	Chock
	23	A61.05.004	1	Ring
	24	1522-2707244	1	Buckle
	25	6,3x63.019 GOST 397-79	1	Forelock
	26	1321-2707070-B-01	1	Plate
	27	16 OT OST 37.001.115-75	2	Washer
	28	M16-6H.6.019 GOST 5915-70	4	Nut
	29	1522-2707243	1	Nut
	30	1522-2707242	1	Washer
	31	1522-2707079-A	1	Kingpin
	32	921-2707055	1	Fork
	33	A61.07.001-A	1	Forelock
	34	1321-2707051-B	1	Bracket
	35	20 OT OST 37.001.115-75	8	Washer
	36	680-2707024	8	Bolt
	37	1321-2707070-B	1	Plate
	38	1322-2707261	1	Side member
	39	900-2707135	2 (maximum)	Plate
	40	900-2707135-01	2 (maximum)	Plate
	41	900-2707135-02	2 (maximum)	Plate
	42	1322-2707261-01	1	Side member
	43	1322-2707262-01	1	Bracket
	44	M6-6gx16.88.35.019 GOST 7798-70	4	Bolt
	45	1322-2707262	1	Bracket

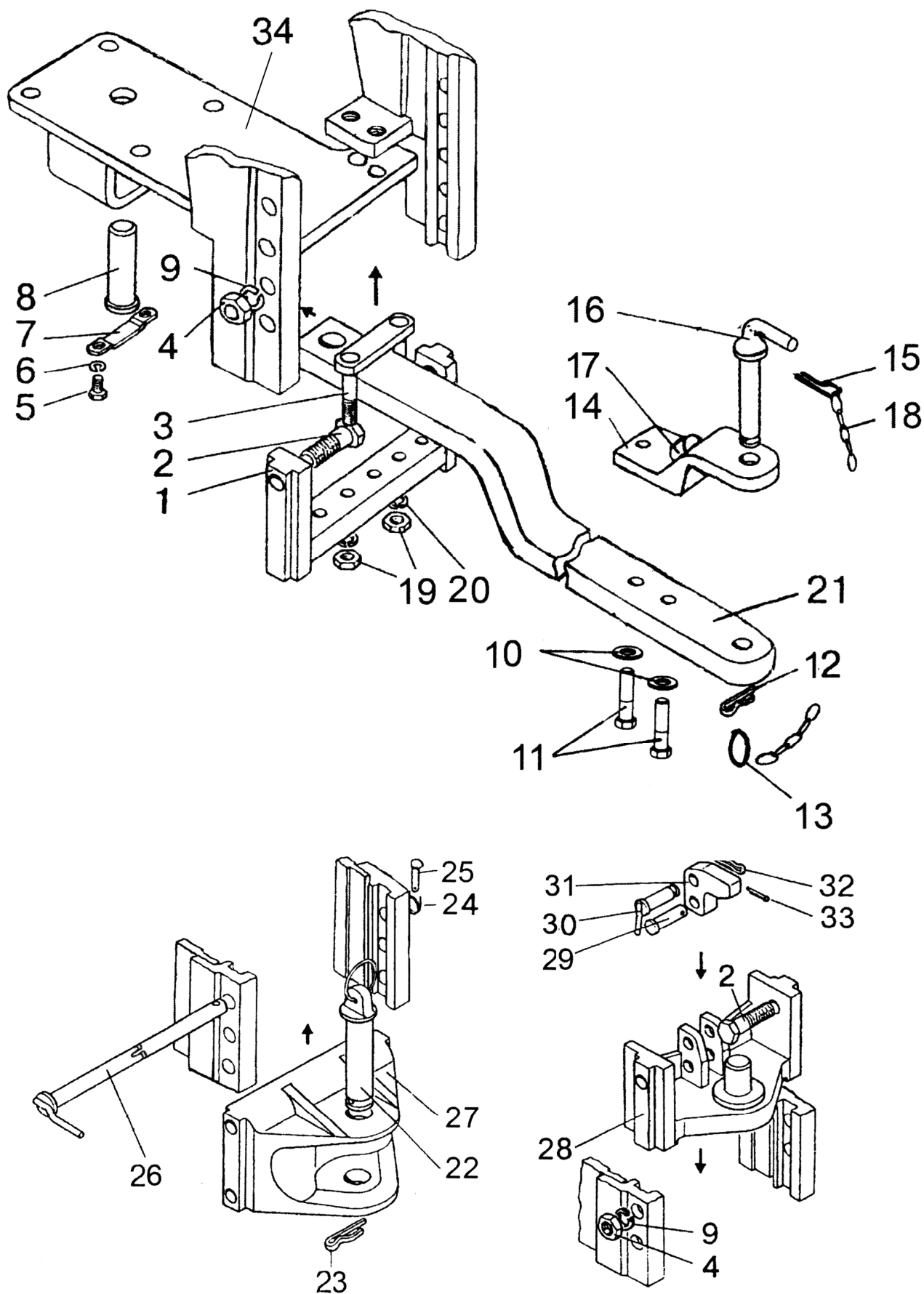


Fig. 27.2. Drawbar Hitch (Options Arrangement)

Group 27. Drawbar Hitch
Subgroup 2707. Drawbar Hitch (Options Arrangement)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
27.2		1321-2707150-B1	1	Rod (11-19, 25)
		1322-2707160	1	Python (28-33, 46)
	1	1322-2707130-B	1	Cross member
	2	1322-2707133	4	Bolt
	3	1322-2707120-B1	1	Joke
	4	M20-6H.6.019 GOST 5915-70	4	Nut
	5	M10-6H.6.019 GOST 5915-70	2	Bolt
	6	10 OT OST 37.001.115-75	2	Washer
	7	1522-2707126	1	Plate
	8	1522-2707127	1	Axis
	9	20 OST 37.001.115-75	4	Washer
	10	1523-2707146	2	Washer
	11	1523-2707149	2	Bolt
	12	A61.07.001-A	1	Forelock
	13	H50-4202146	1	Ring
	14	1523-2707143	1	Lining
	15	3,2x25.019 GOST 397-79	1	Forelock
	16	1522-2707079-A	1	Kingpin
	17	1523-2707142	1	Joke
	18	70-4235035	2	Chain
	19	M16-6H.6.019 GOST 5915-70	2	Nut
	20	16 OT OST 37.001.115-75	2	Washer
	21	1321-2707144-B	1	Rod
	22	1321-2707140-B	1	Kingpin
	23	1321-2707042	1	Forelock
	24	A61.05.004	1	Ring
	25	A61.05.005	1	Chock
	26	1321-2707030	1	Pin
	27	1321-2707113-A or 1321-3707111-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	Thrust
	32	A61.07.001	1	Forelock
	33	4x36.019 GOST 397-79	1	Forelock
	34	1321-2707020-B	1	Plate

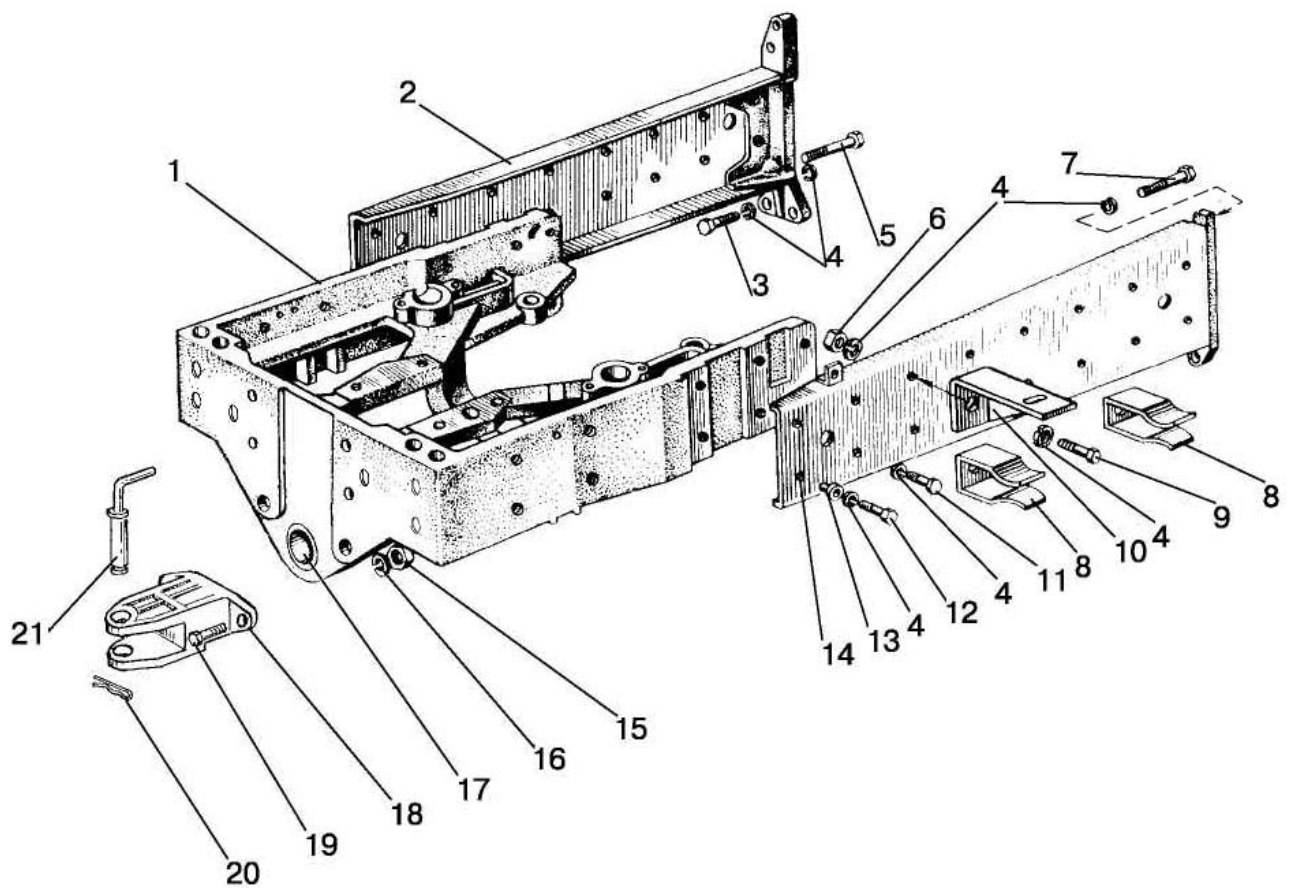


Fig. 28.1. Semi-frame

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1220.1/1220.3/1220.4

Group 28. Frame
Subgroup 2801. Semi-frame

Fig.No	Pos.No	Designation	Q-ty	Name
28.1		1025-2800010	1	Semi-frame (1, 2, 11-14, 17)
		1025-2801120	1	Front beam (1,17)
		80-2806010-01¹⁾	1	Front towing line (15,16,18,19)
	1	1025-2801124	1	Front beam
	2	80-2801050	1	Right longeron
	3	M16-6gx60.88.35.019 GOST 7796-70	6	Bolt
	4	16 OT OST 37.001.115-75	25	Washer
	5	M16-6gx120.88.35.019 GOST 7795-70	2	Bolt
	6	M16-6H.6.019 GOST 5915-70	1	Nut
	7	M16-6gx150.88.35.019 GOST 7795-70 (permitted 70-2800016-01)	2	Bolt
	8	50-3913214	2	Clamp
	9	M16-6gx32.88.35.019 GOST 7796-70	2	Bolt
	10	80-3919106	2	Bracket
	11	M16-6gx32.88.35.019 GOST 7796-70	8	Bolt
	12	M16-6gx45.88.35.019 GOST 7796-70	4	Bolt
	13	50-2800011	4	Bushing
	14	80-2801060	1	Left longeron
	15	M20-6H.6.019 GOST 5915-70 ¹⁾	2	Nut
	16	20 OT OST 37.001.115-75 ¹⁾	2	Washer
	17	40-3001022	2	Bushing
	18	80-2806011 ¹⁾	1	Front towing line
	19	70-4605036 ¹⁾	2	Bolt
	20	A61.07.001 ¹⁾	2	Forelock
	21	50-4605079-B ¹⁾	1	Kingpin

¹⁾ Mounted when the front ballast is absent

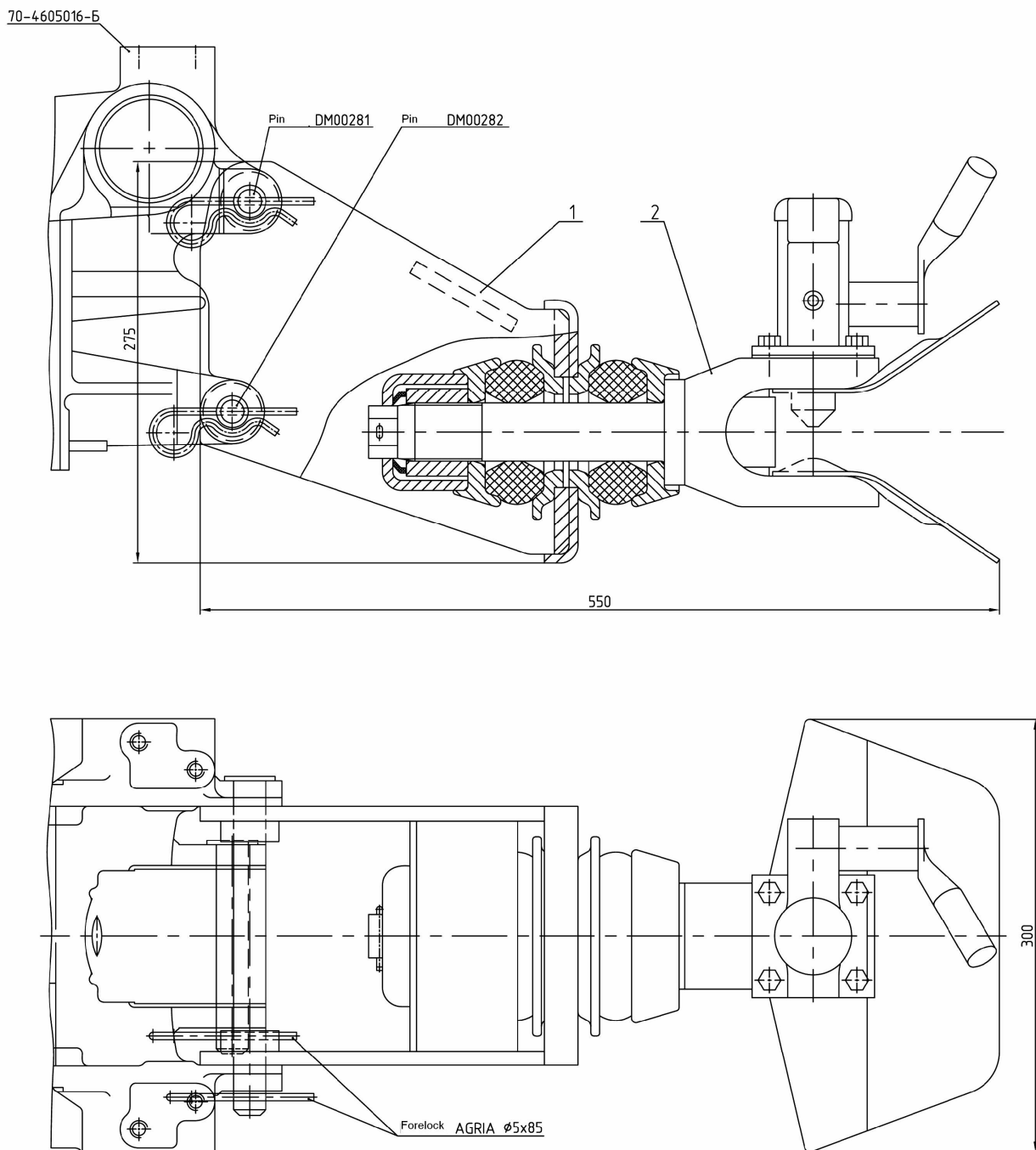


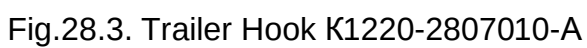
Fig.28.2. Towing Device

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1220.1/1220.3/1220.4

Group 28. Frame
Subgroup 2805. Towing Device

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

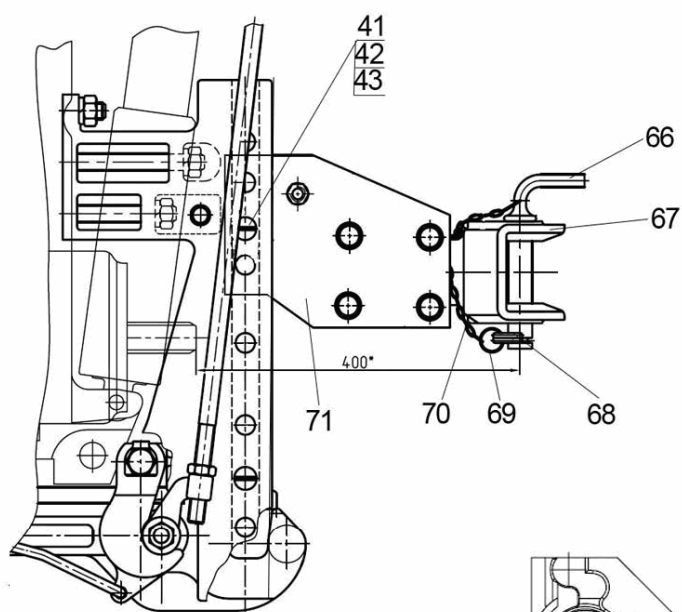


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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Designation	Q-ty	Name
28.3, 28.4		K1220-2807150	1	Rod (31,66,68,70-77)
		K1220-2807015	1	Bracket (53,62-65)
		K1220-2807085	1	Handle (23,24)
		1321-2707050-B1	1	Fork (66-71)
	1	K1220-2807013	1	Pin
	2	36-3503018	1	Washer
	3	6,3x36.019 GOST 397-79	1	Forelock
	4	K1220-2807020	1	Bracket
	5	1321-2707014	4	Bolt
	6	1222-2707137	2	Plate
	7	70-2807081	1	Spring bracket
	8	50-1605152	1	Spring
	9	K1220-2807040	1	Rod
	10	12x32 OST 37.001.163-97	1	Pin
	11	3,2x18.019 GOST 397-79	3	Forelock
	12	70-2807079	1	Lever
	13	C 16.01.019 GOST 11371-78	1	Washer
	14	3,2x25.019 GOST 397-79	1	Forelock
	15	K1220-2807045	1	Axis flange
	16	M10-6gx16.88.35.019 GOST 7796-70	1	Bolt
	17	10 OT OST 37.001.115-75	1	Washer
	18	B.M4-6gx8.58.019 GOST 17473-80	3	Screw
	19	M4-6H.6.019 GOST 5927-70	3	Nut
	20	4 OST 37.001.115-75	3	Washer
	21	85-2807093	2	Seal
	22	50-1103031-01	1	Housing
	23	50-1310136-A	1	Handle
	24	K1220-2807080	1	Handle
	25	B.M6-6gx16.58.019 GOST 17473-80	2	Screw
	26	M6-6H.6.019 GOST 5915-70	3	Nut
	27	6T OST 37.001.115-75	7	Washer
	28	85-2807092	1	Bracket
	29	921-2707068	2	Stud
	30	M20-6H.6.019 GOST 5915-70	6	Nut
	31	20 OT OST 37.001.115-75	12	Washer
	32	K1220-2807051	1	Clip (right)
	33	K1220-2807051-01	1	Clip (left)
	34	70-2807052-B-02	2	Screw
	35	40-3405062	2	Nut
	36	70-2807053-B	2	Nut
	37	K1220-2807005	1	Hook (with axis)
	38	C 20.01.019 GOST 11371-78	2	Washer
	39	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	40	4x36.019 GOST 397-79	2	Forelock
	41	K1220-2807012	6	Pin
	42	1321-2707013	6	Nut
	43	M20x1,5-6H.6.019 GOST 5915-70	6	Nut
	44	1322-2707260-01	1	Side member assembly (left)
	45	1322-2707274	1	Buckle
	46	A.6x30.65Г GOST 14229-93	1	Pin
	47	M6-6gx12.88.35.019 GOST 7798-70	4	Bolt
	48	1322-2707211	1	Bushing
	49	1322-2707260	1	Side member assembly (right)
	50	1220-4605506	4	Bolt
	51	16 OT OST 37.001.115-75	6	Washer

Version



Version 2

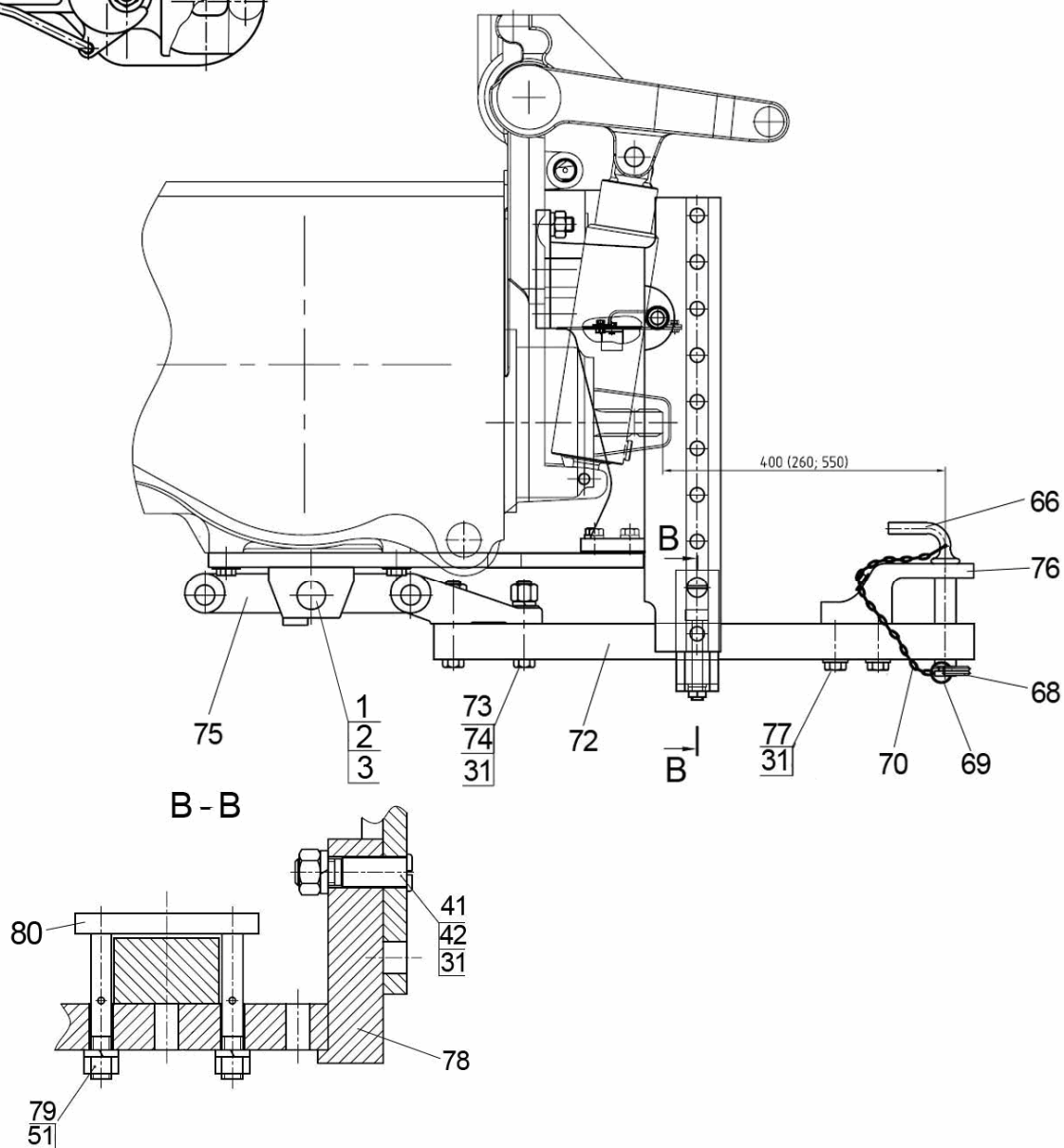


Fig.28.4. Trailer Hook K1220-2807010-A (Options Arrangement)

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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Designation	Q-ty	Name
28.3, 28.4	52	1322-2707280	1	Board assembly
	53	K1220-2807014	1	Bracket
	54	900-2707135	2	Plate (S=0,5 mm)
	55	900-2707135-01	2	Plate (S=1 mm)
	56	900-2707135-02	2	Plate (S=0,2 mm)
	57	1321-2707083-B	1	Joke
	58	921-2707068-03	2	Stud
	59	921-2707068 -02	2	Stud
	60	M6-6gx18.88.35.019 GOST 7798-70	1	Bolt
	61	C 6.01.019 GOST 11371-78	1	Washer
	62	K1220-2807077	2	Grip
	63	K1220-2807047	1	Grip axis
	64	70-2707137	2	Bolt
	65	70-2707153	2	Washer
	66	1522-2707079-A	1	Kingpin
	67	921-2707055	1	Fork
	68	A61.07.001-A	1	Forelock
	69	H50-4202146	6	Ring
	70	2,5x14	2	Chain (33 links)
	71 (see Fig.27.1)	1321-2707070-B	1	Plate
		1321-2707070-B-01	1	Plate
		1321-2707051-B	1	Bracket
		1522-2707242	1	Washer
		1522-2707243	1	Nut
		1522-2707244	1	Buckle
		680-2707024	4	Bolt
		M16-6H.04.019 GOST 5916-70	4	Nut
		6,3x63.019 GOST 397-79	1	Forelock
		16 OT OST 37.001.115-75	2	Washer
		20 OT OST 37.001.115-75	8	Washer
	72	K1220-2807144	1	Rod
	73	K1220-2807149	2	Bolt
	74	921-2707066	2	Nut
	75	K1220-2807124	1	Clip
	76	1523-2707145	1	Lining
	77	80-2707149-B-01	2	Bolt
	78	1322-2707130	1	Cross member
	79	M16-6H.6.019 GOST 5915-70	2	Nut
	80	1322-2707120-B	1	Joke
	81	142-4605076	1	Pin

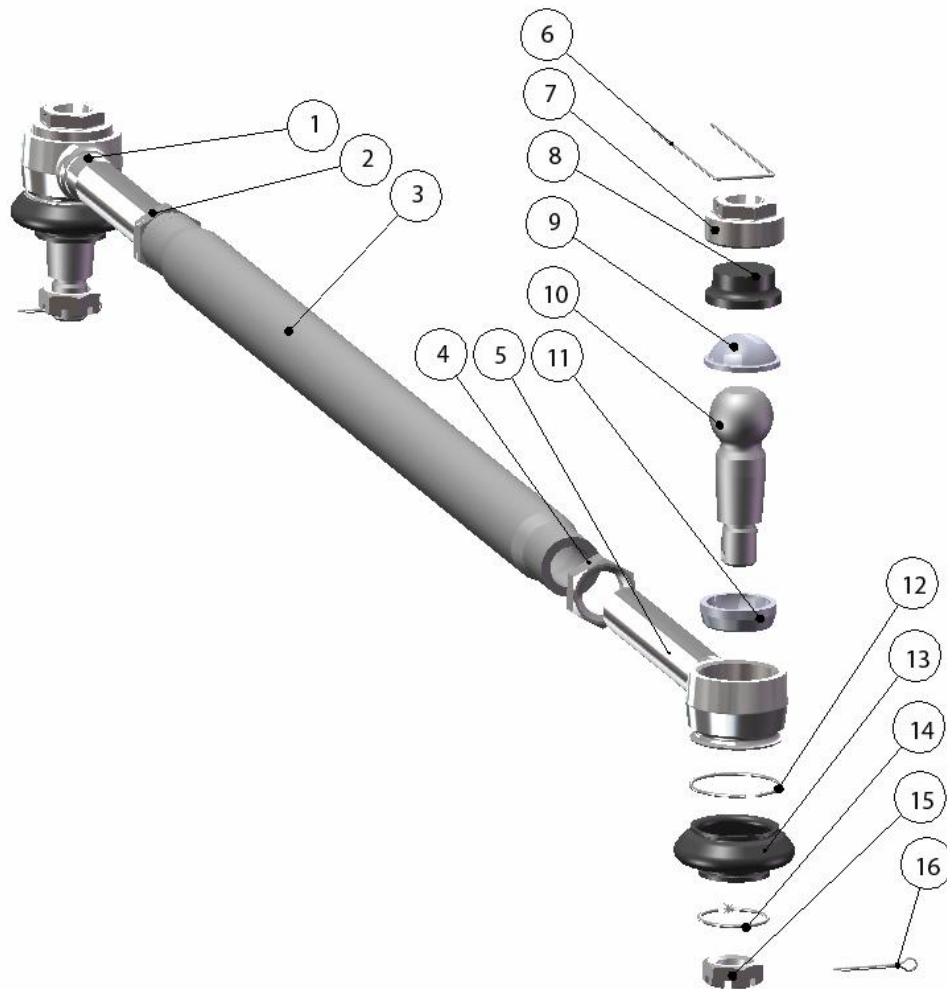


Fig.30.1. Steering Link

BELARUS
1220.1/1220.3/1220.4

Group 30. Steering Link
Subgroup 3003. Steering Link

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
30.1		822-3003010-01	1	Steering link (1-16)
	1	822-3003020	1	Right hinge (822-3003022, 6-16)
		822-3003020-01	1	Left hinge (822-3003022-01, 6-16)
	2	1220-3003013-01	1	Lock nut
	3	1220-3003011	1	Pipe
	4	1220-303013	1	Lock nut
	5	822-3003022	1	Right hinge housing
		822-3003022-01	1	Left hinge housing
	6	2,0-O-C GOST 3282-74	2	Wire (270 mm)
	7	50-3003018-B	2	Plug
	8	1220-3003028	2	Insert
	9	1220-3003027	2	Insert
	10	1220-3003021	2	Ball pin
	11	1220-3003023	2	Insert
	12	1220-3003024	2	Ring
	13	1220-3003025-A	2	Case
	14	1220-3003029	2	Ring
	15	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	16	4x36.019 GOST 397-79	2	Forelock

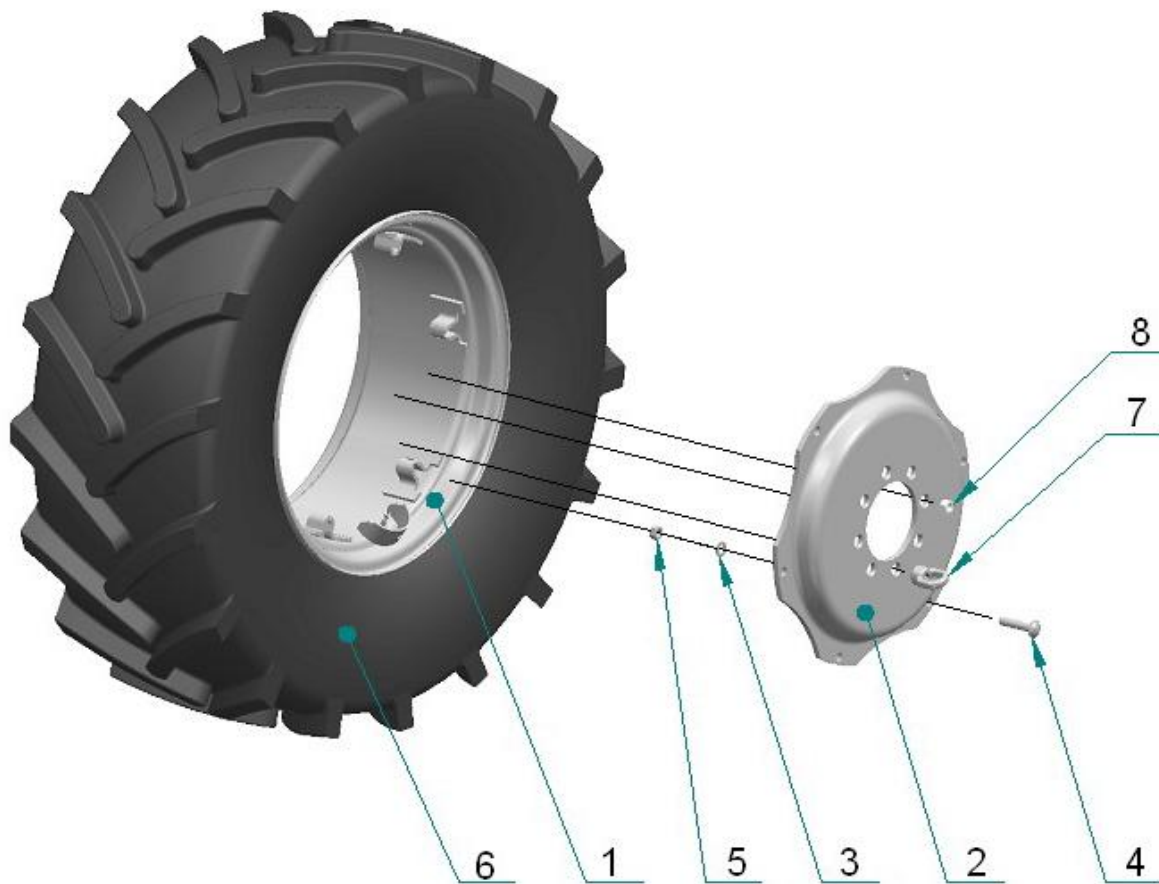


Fig. 31.1 Front Driving Wheels

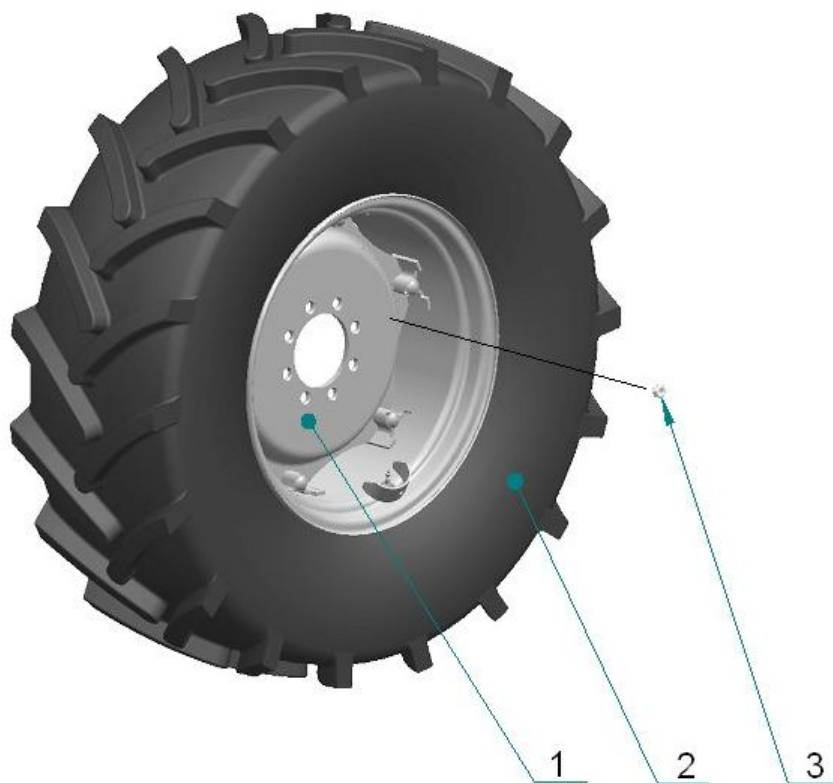


Fig. 31.2 Front Driving Wheels

BELARUS

1220.1/1220.3/1220.4

Group 31. Wheels and Hubs
Subgroup 3101. Front Driving Wheels

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
31.1		1221-3101010-01 or 1221-3101010 or 822-3101010	2	Wheel (with tyre 420/70R24) (1-6) Wheel (with tyre 14.9R24) (1-6) Wheel 360/70R24 (assembled with tyre) (1-6)
		W12-24-3101020-01 or 880.3101012-01	2	Wheel W12x24 (1,2,3,4,5)
	1	W12-24-3101035	2	Rim W12x24 with brackets
	2	W12-24-3101017	2	Disk
	3	52-2301065	12	Washer
	4	1221-3101011	12	Bolt
	5	1221-3101013 or M16x1.5-6H.10.019 GOST 5915-70	12	Nut
	6		2	Tyre 420/70R24 or 14.9R24 or 360/70R24
	7	70-3104019-01	2	Special nut
	8	40-3103017	14	Wheel mounting nut
31.2		822-3101015	2	Wheel 11.2R24 (assembled with tyre) (1,2)
	1	8133.3101012-01	2	Wheel W10x24 (disk, rim, protective visor)
	2		2	Tyre 11.2R24
	3	40-3103017	16	Wheel mounting nut

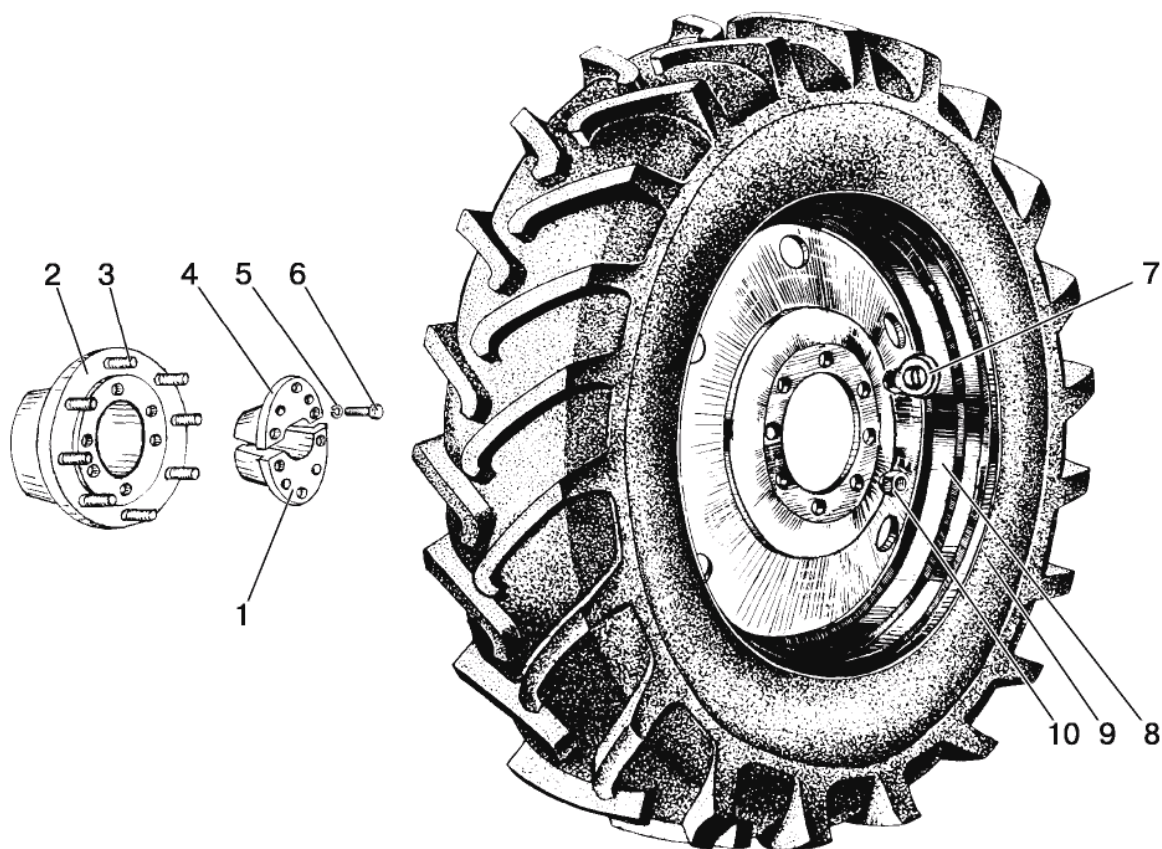


Fig. 31.3. Rear Driving Wheels

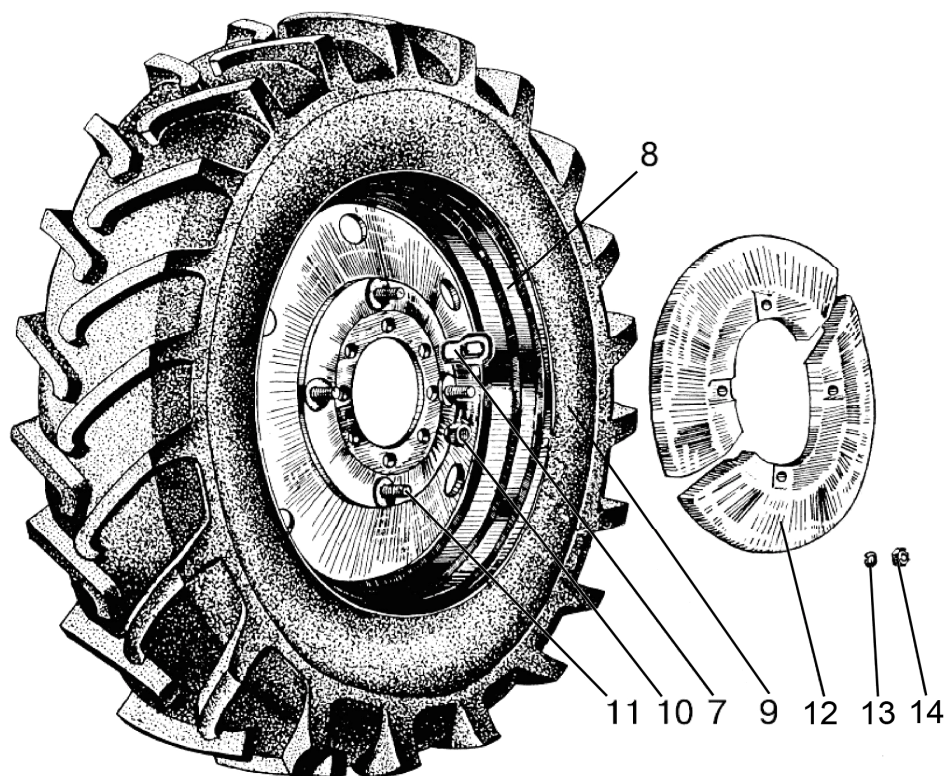


Fig. 31.4. Rear Driving Wheels

Group 31. Wheels and Hubs

Subgroup 3104. Rear Wheels Hubs

3107. Rear Driving Wheels

Fig.No	Pos.No	Designation	Q-ty	Name
31.3, 31.4		1220-3104010	2	Hub (1-7, 10)
	1	1220-3104012	1	Insert
	2	1220-3104011	1	Hub
	3	40-3104021	8	Bolt
	4	1220-3104012-01	1	Insert
	5	20 OT OST 37.001.115-75	6	Washer
	6	70-4605036	6	Bolt
	7	70-3104019	2	Special nut
	10	36-3104019	14	Wheel mounting nut
	11	7-34-108	8	Bolt (for weights mounting)
	12	50-3107018-A	4	Weight (against order)
	13	16 OT OST 37.001.115-75	8	Washer (for weights mounting)
	14	M16-6H.6.019 GOST 5915-70	8	Nut (for weights mounting)
		1221-3107010¹⁾	2	Wheel 18.4R38 (assembled with tyre) (8,9)
	8	DW15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38 (disk, rim, protective visor)
	9		2	Tyre 18.4R38
		72-3107010²⁾	2	Wheel 16.9R38 (assembled with tyre) (8,9)
	8	DW15Lx38-3107020 or 8746.3107012П3	2	Wheel DW15Lx38 (disk, rim, protective visor)
	9		2	Tyre 16.9R38
		72-3107010-05^{2,3)}	2	Wheel 16.9R38 (assembled with tyre) (8,9)
	8	C70-3107012	2	Wheel DW14Lx38 (disk, rim, protective visor)
	9		2	Tyre 16.9R38
		80-3107010-01¹⁾	2	Wheel 18.4R34 (assembled with tyre) (8,9)
	8	C885.3107012	2	Wheel DW16x34 (disk, rim, protective visor)
	9		2	Tyre 18.4R34 (model Φ-11)
		80-3107010-03^{1,3)}	2	Wheel 18.4R34 (assembled with tyre) (8,9)
	8	C885.3107012	2	Wheel DW16x34 (disk, rim, protective visor)
	9		2	Tyre 18.4R34 (model Φ-11)
		C70-3100220-A¹⁾	2	Wheel 15.5R38 (assembled with tyre) (8,9)
	8	C70-3107012	2	Wheel DW14Lx38 (disk, rim, protective visor)
	9		2	Tyre 15.5R38
		C70-3100220-A-01^{1,3)}	2	Wheel 15.5R38 (assembled with tyre) (8,9)
	8	C70-3107012	2	Wheel DW14Lx38 (disk, rim, protective visor) (4,8)
	9		2	Tyre 15.5R38
		50-3100030	2	Wheel 9.5-42 (assembled with tyre) (8,9)
	8	50-3107050	2	Wheel DW8x42 (disk and rim)
	9		2	Tyre 9.5-42
		85-3107020	2	Wheel 11.2R42 (assembled with tyre) (8,9)
	8	50-3107050	2	Wheel DW8x42 (disk and rim)
	9		2	Tyre 11.2R42

¹⁾ For tractors with FDA 822-2300020

²⁾ For tractors with FDA 822-2300020-05

³⁾ With ballast weights (Fig. 31.4)

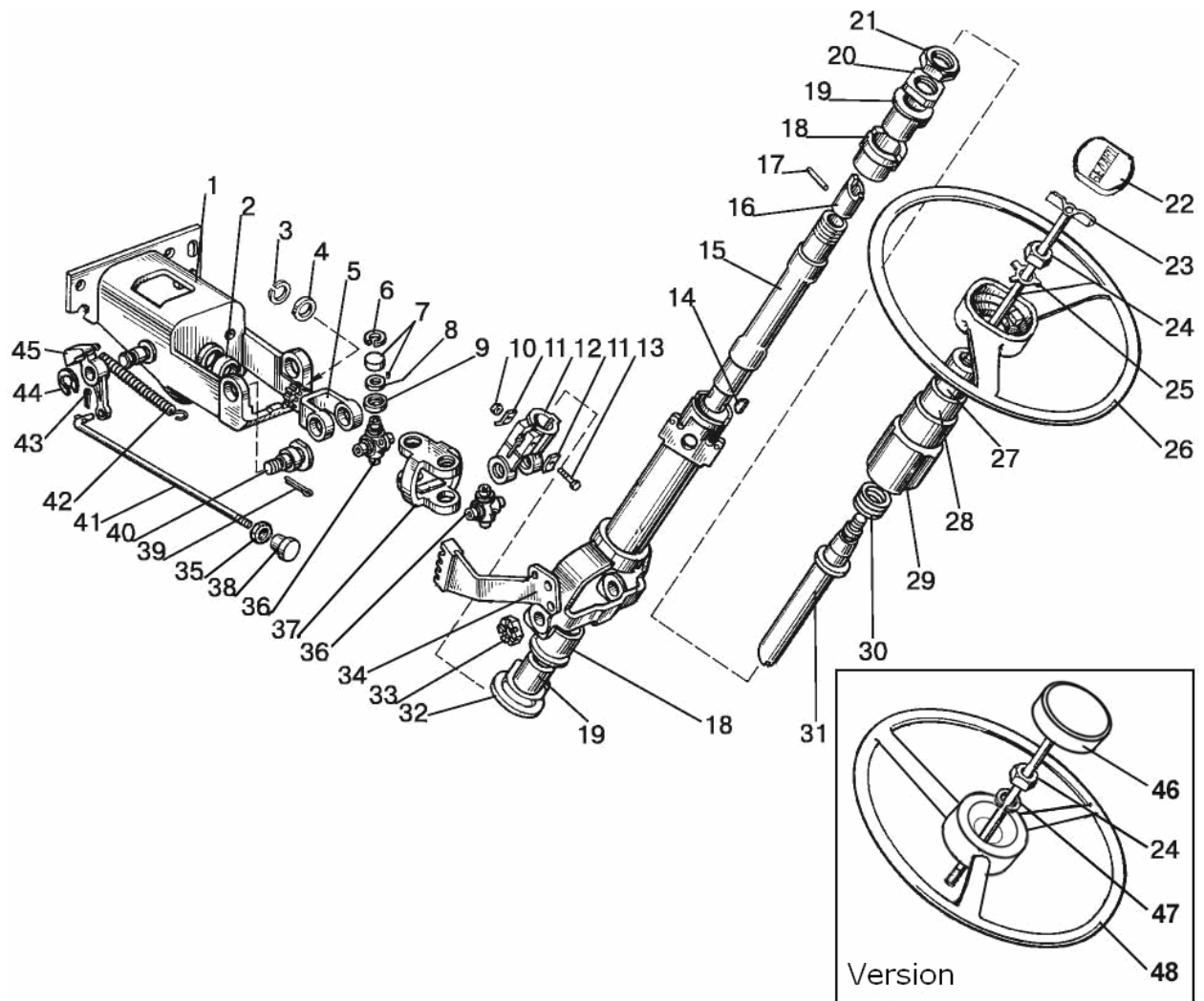


Fig. 34.1. Steering Column

Group 34. Steering Control
Subgroup 3401. Steering Column

Fig.No	Pos.No	Designation	Q-ty	Name
34.1		85-3401000-A-02 85П-3401000-02		Steering column (two-stroke wheel) Steering column (three-stroke wheel)
		85-3401010	1	Steering column (1-21, 32-37, 39, 40, 42, 44, 45)
		70-3401050-B	1	Shaft (15-17)
		85-3401150	1	Cardan (5-9, 12, 36, 37)
	1	85-3401120	1	Bracket
	2	85-3401016	1	Bushing
	3	C20 GOST 13940-86	1	Ring
	4	80-3401019	1	Washer
	5	85-3401156-B	1	Fork
	6	C19 GOST 13943-86	8	Ring
	7	904700 YC17 TU 37.006.065-90	8	Bearing
	8	50-3401064	8	Oil-seal
	9	50-3401063	8	Yoke
	10	M10-6H.04.019 GOST 5916-70	1	Nut
	11	80-3401013	2	Washer
	12	50-3401061-A	1	Fork
	13	M10-6gx45.88.35.019 GOST 7795-70	1	Bolt
	14	CШ-510	1	Key 5x10
	15	70-3401055	1	Intermediate shaft
	16	70-3401054-B	1	Shaft end extension
	17	ШЦК 8x36	1	Pin
	18	70-3401077-B	2	Shock absorber
	19	70-3401076	2	Bushing
	20	70-3401078	1	Nut
	21	70-3401079	1	Lock nut
	22	80-3401082	1	Cover
	23	80-3401140	1	Clamp
	24	M16x1,5-6H.6.019 GOST 5915-70	1	Nut
	25	50-3401091	1	Washer
	26	80-3402015	1	Steering wheel
	27	80-3709025	1	Bushing
	28	80-3709026-B	1	Bushing
	29	80-3709024	1	Case
	30	50-4608057	1	Spring
	31	85-3401175	1	Shaft
	32	600-3401012	1	Washer
	33	70-3003032	2	Nut
	34	85-3401080	1	Pipe
	35	M8-6H.6.019 GOST 5915-70	1	Nut
	36	50-3401062	2	Cross bar
	37	85-3401067	1	Fork
	38	70-4803060	1	Handle
	39	4x25.019 GOST 397-79	2	Forelock
	40	85-3401011	2	Screw
	41	822-3401001-03	1	Rod
	42	50-1310158-B	1	Spring
	43	1,6x12.019 GOST 397-79	1	Forelock
	44	C18 GOST 13940-86	1	Ring
	45	85-3401014	1	Detent
	46	822-3401140-A1	1	Clamp
	47	16 OT OST 37.001.115-75	1	Washer
	48	70-3402015-A or 85-3402015	1	Steering wheel

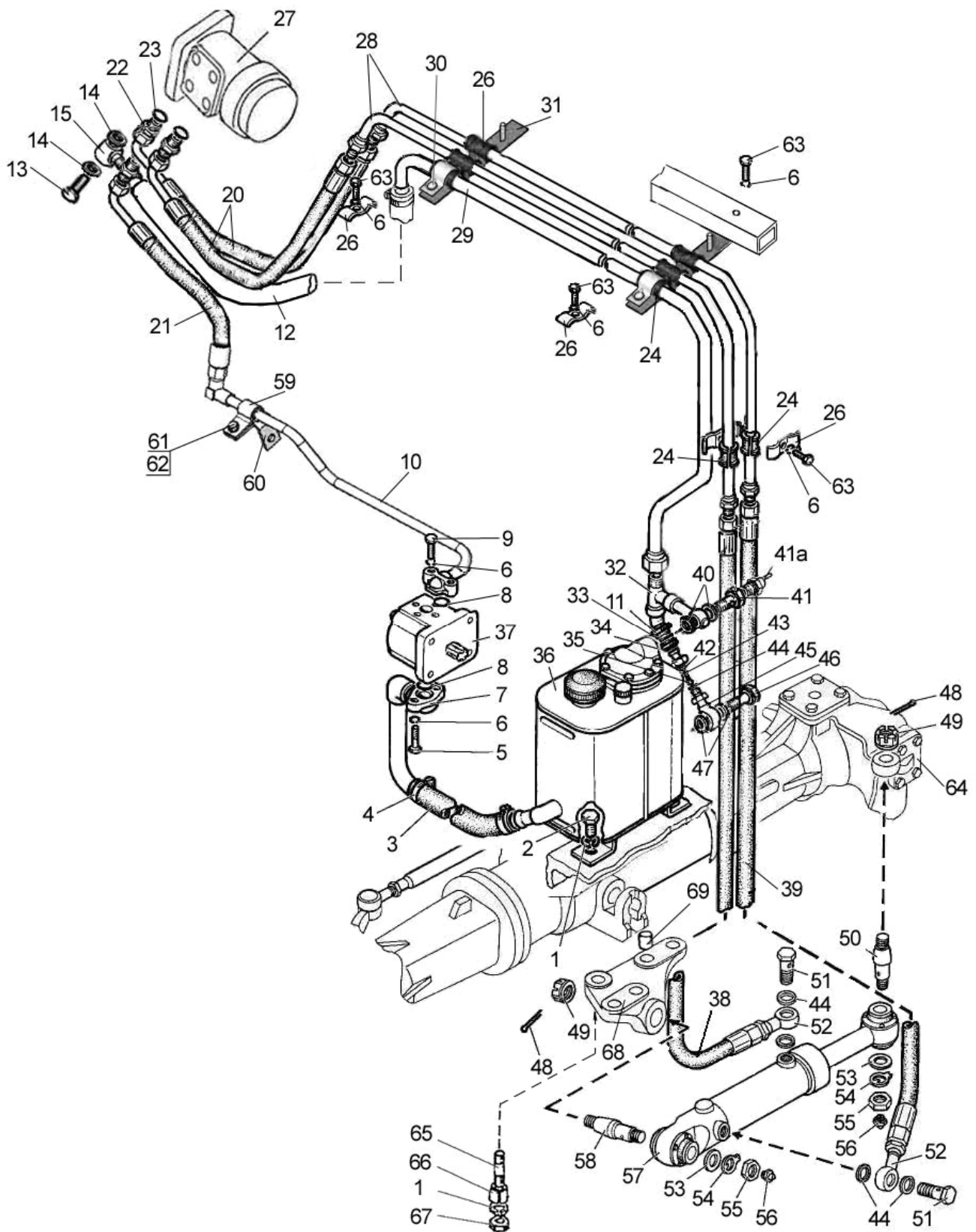


Fig.34.2 Steering Control 1025-3400010

Group 34. Steering Control
Subgroup 3407. Steering Control

Fig.No	Pos.No	Designation	Q-ty	Name
34.2		1025-3400010		Steering control
	1	16 OT OST 37.001.115-753	5	Washer
	2	M16-6gx25.88.35.019 GOST 7796-70	2	Bolt
	3	1221-3407012-03	1	Hose
	4	"NORMA" TORRO 25-40/9-C6W	2	Clamp
	5	M8-6gx45.88.35.019 GOST 7795-70	2	Bolt
	6	8T OST 37.001.115-75	14	Washer
	7	1025-3407030	1	Oil pipeline
	8	017-022-30-1-4 GOST 18829-73/9833-73	2	Ring
	9	M8-6gx40.88.35.019 GOST 7796-70	9	Bolt
	10	1025-3407020-B	1	Oil pipeline
	11	"NORMA" TORRO 16-25/9-C6W	4	Clamp
	12	952-3407014-06	1	Hose
	13	85-3407105-03	1	Bolt
	14	PM1/2	2	Washer
	15	922-3407080	1	Oil pipeline
	20	680-4607140-06	2	High-pressure hose
	21	1522B-3407100-02	1	High-pressure hose
	22	1522-3407016	3	Coupling
	23	025-029-25-2-2 GOST 18829-73/9833-73	3	Ring
	24	70-3506027	8	Bushing
	26	703407146	3	Plate
	27	OSPC-160 ON150G0030 or HKUS 160/4-140HP-02/3 or 1231 160 B ON.PMI or SUB 160.140-200-1	1	Dosing pump
	28	1025-3407040	2	Oil pipeline
	29	1025-3407060	1	Oil pipeline
	30	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	31	921-3407016	2	Bracket
	32	923-3407050	1	Three way pipe
	33	600-3407083	1	Hose
	34	Φ80-3407111-01	1	Valve cover
	35	12,0-60 GOST 3722-81	1	Ball
	36	923-3407100-01	1	Tank
	37	НШ14Д-3П or НШ14Г-3П or 20A14x126	1	Gear-type pump
	38	952-3407100-02	1	High-pressure hose
	39	952-3407100-04	1	High-pressure hose
	40	PM1/2	2	Washer
	41	1221-3407140-A-01	1	Valve
	41a	ДАДМ-03	1	Emergency oil pressure sensor
	42	Φ80-3407113	1	Guide
	43	80-3407221	1	Spring
	44	PM3/8	5	Washer
	45	822-3407095	1	Valve body
	46	40-4607032	1	Bolt
	47	PM1/2	2	Washer

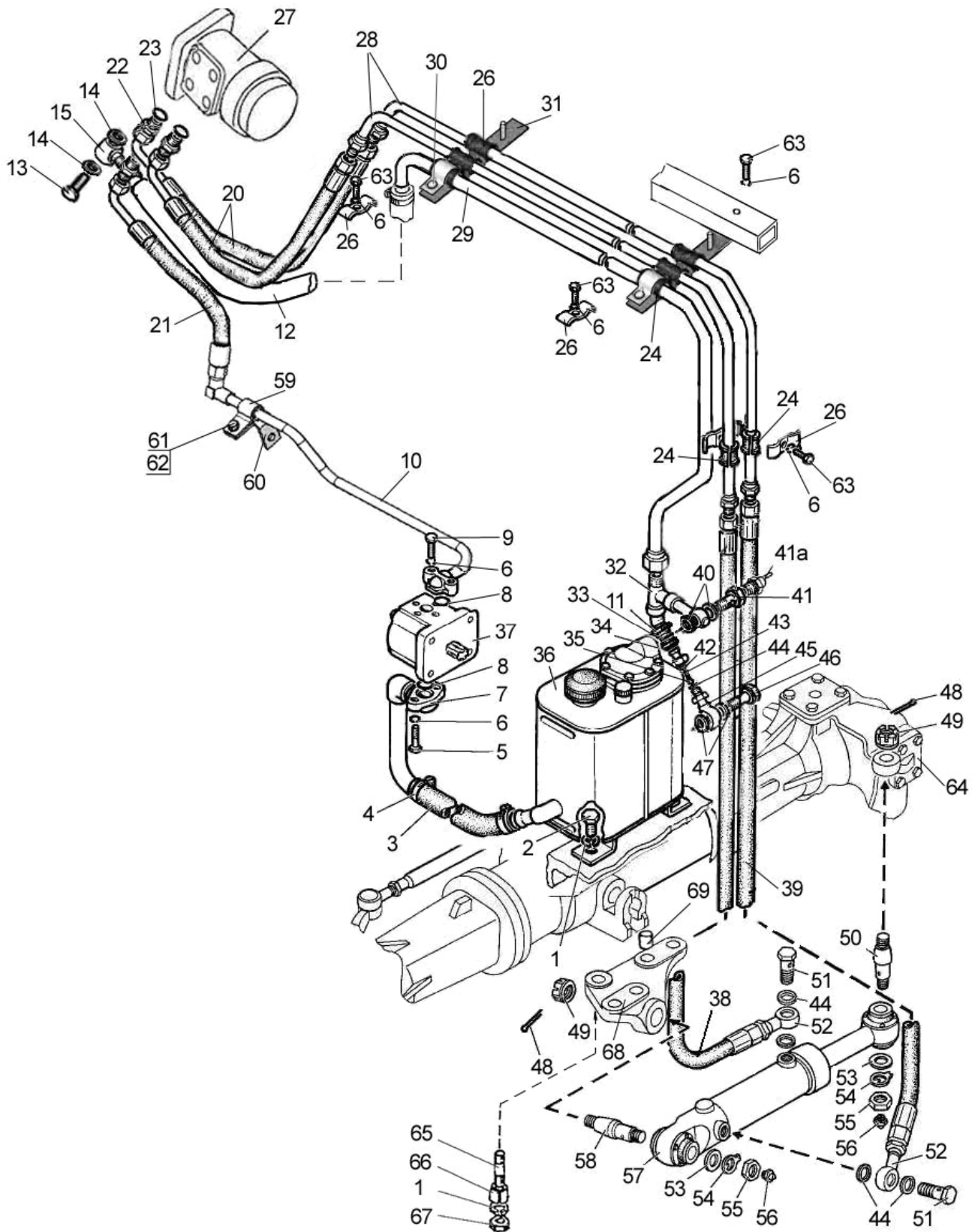


Fig.34.2 Steering Control 1025-3400010

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1220.1/1220.3/1220.4

Group 34. Steering Control
Subgroup 3407. Steering Control 1025-3400010

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

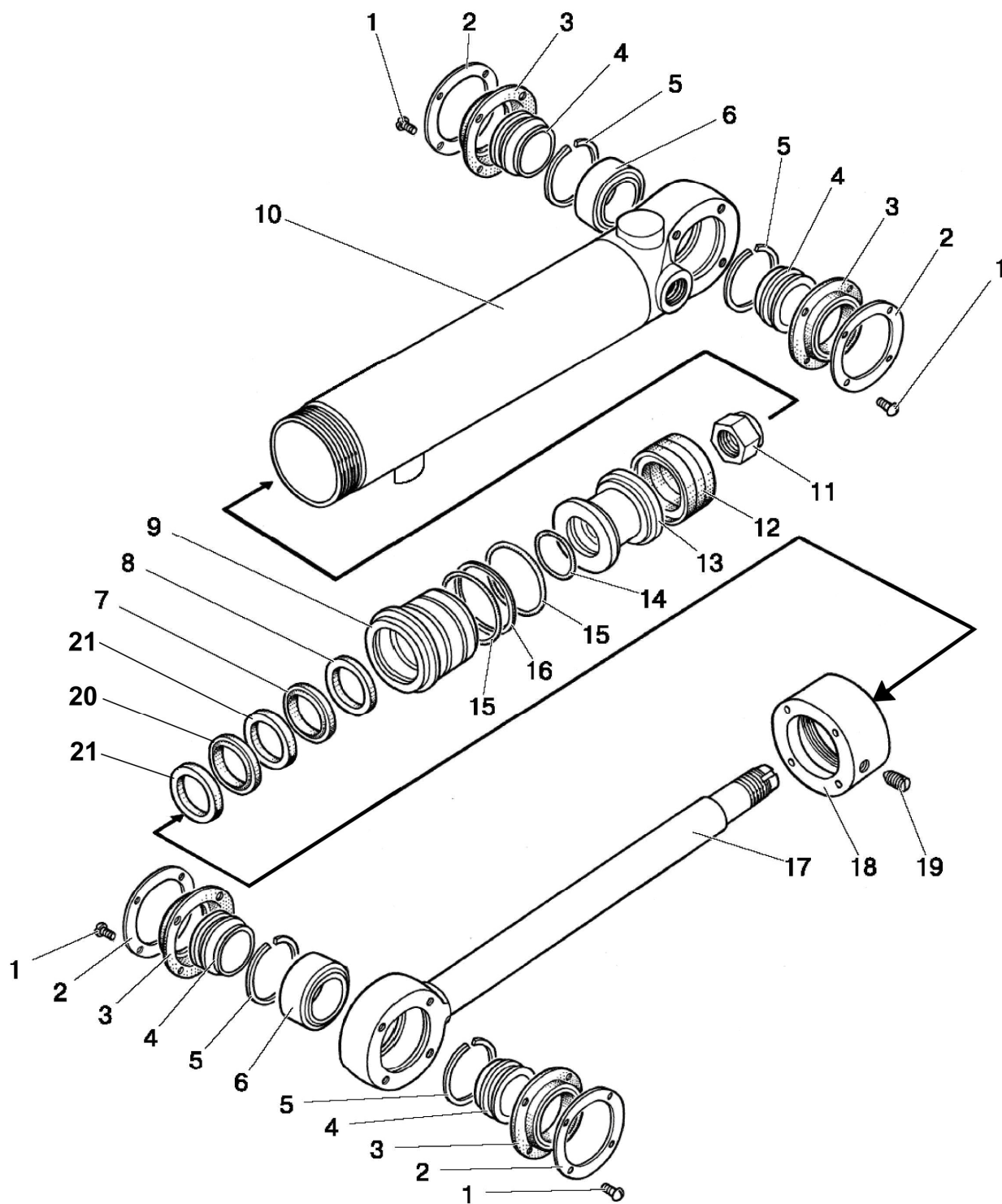


Fig. 34.3. Hydraulic Cylinder LQ63 (63x30-200)

BELARUS

1220.1/1220.3/1220.4

Group 34. Steering Control
Subgroup 3405. Hydraulic Cylinder L63 (63x30-200)

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

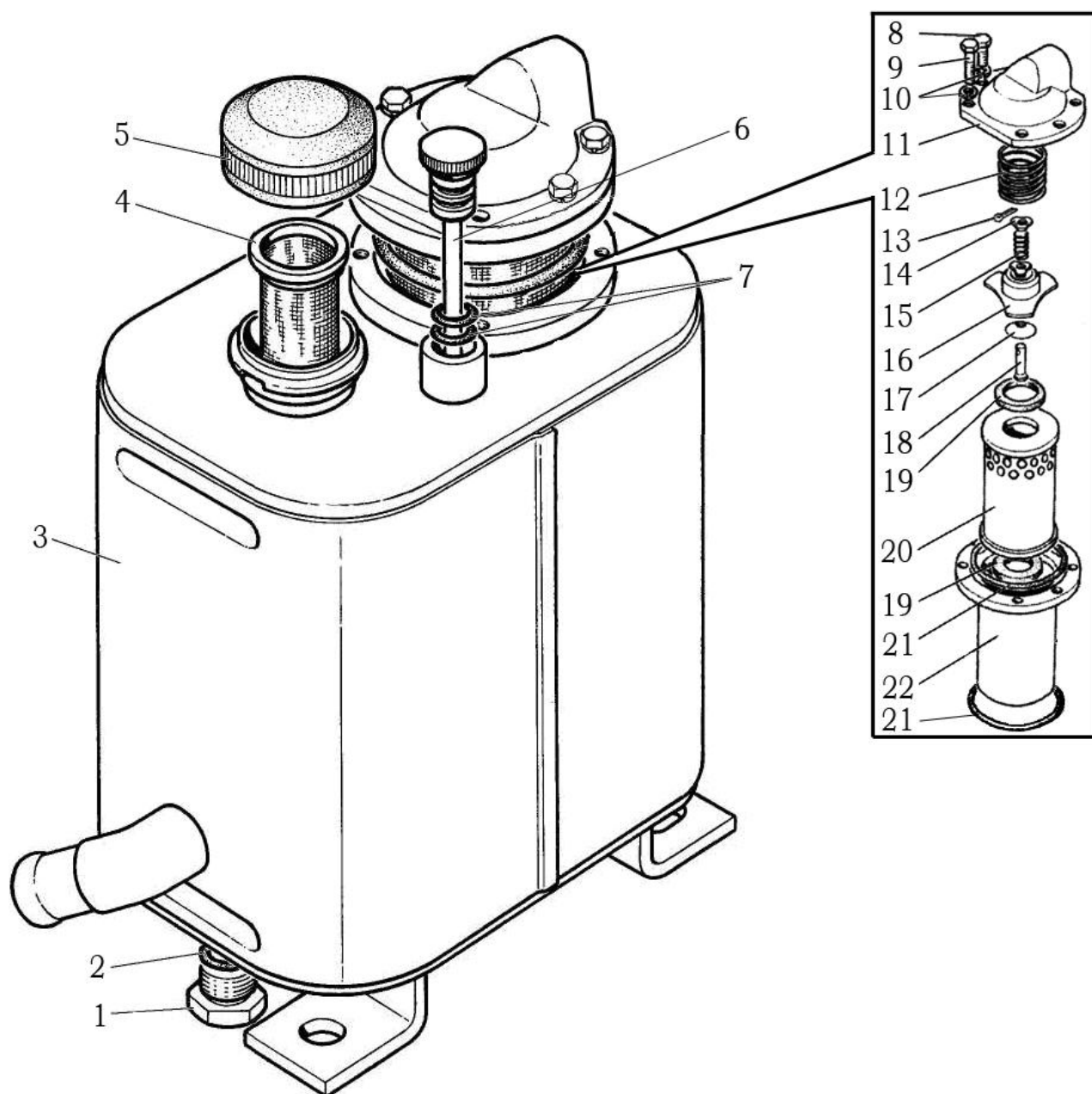


Fig.34.4. Tank

BELARUS

1220.1/1220.3/1220.4

Group 34. Steering Control

Subgroup 3407. Tank

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

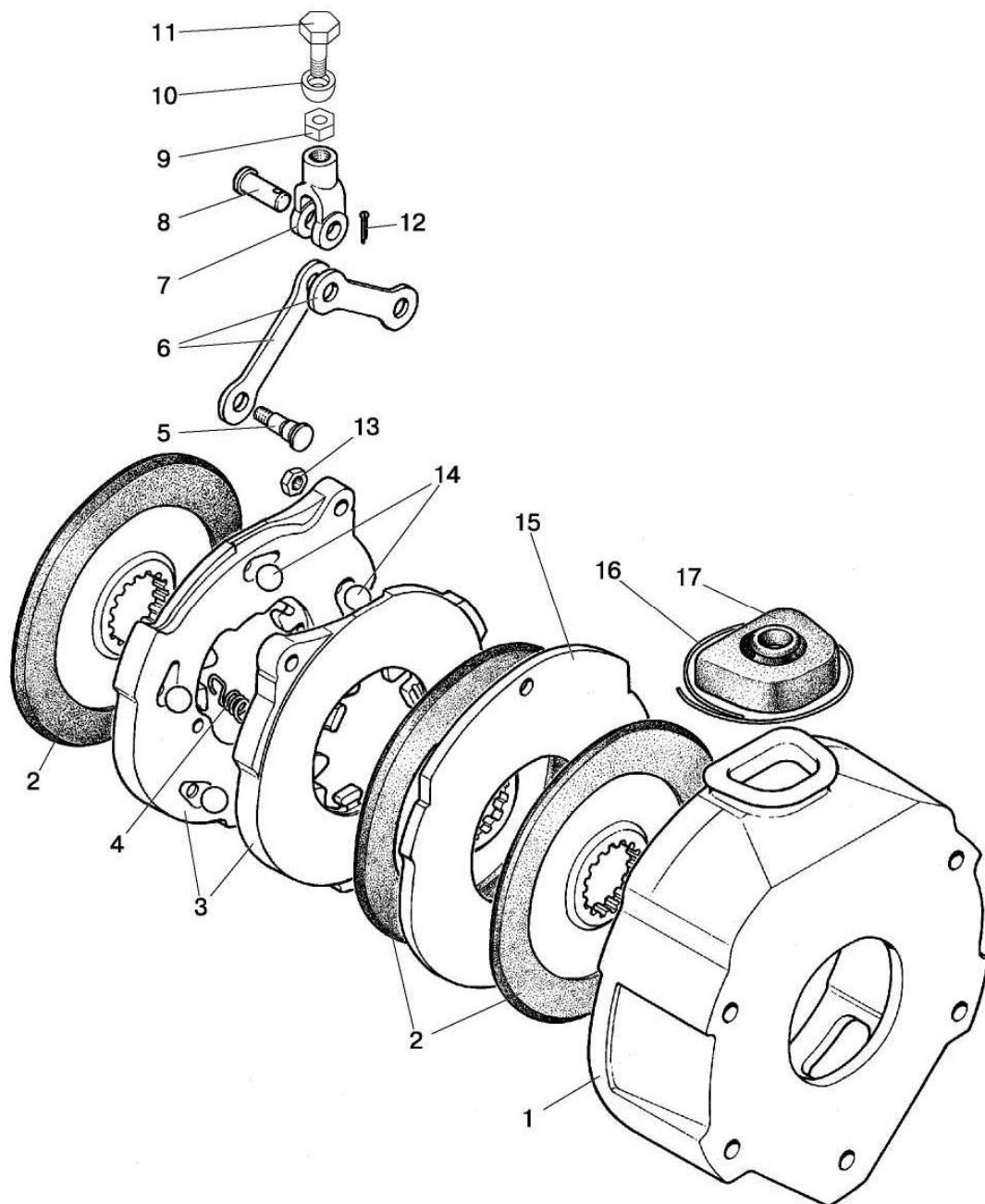


Fig. 35.1. Brakes

BELARUS**1220.1/1220.3/1220.4**

Group 35. Brakes
Subgroup 3502. Brakes

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.1		1522-3502010	2	Brake (1-8, 12-17)
		70-3503080	2	Brake linkage (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 OST 37.001.163-97	2	Pin
	9	M12x1,25-6H.04.019 GOST 5916-70	2	Nut
	10	70-3503018	2	Washer
	11	70-3503019	2	Bolt
	12	3,2x18.019 GOST 397-79	2	Forelock
	13	M8-6H.6.019 GOST 5915-70	4	Nut
	14	22,225-100 GOST 3722-81	10	Ball
	15	1522-3502037-B	2	Disk
	16	1,6-O-C GOST 3282-74	2	Wire (300 mm)
	17	50-3502202	2	Case

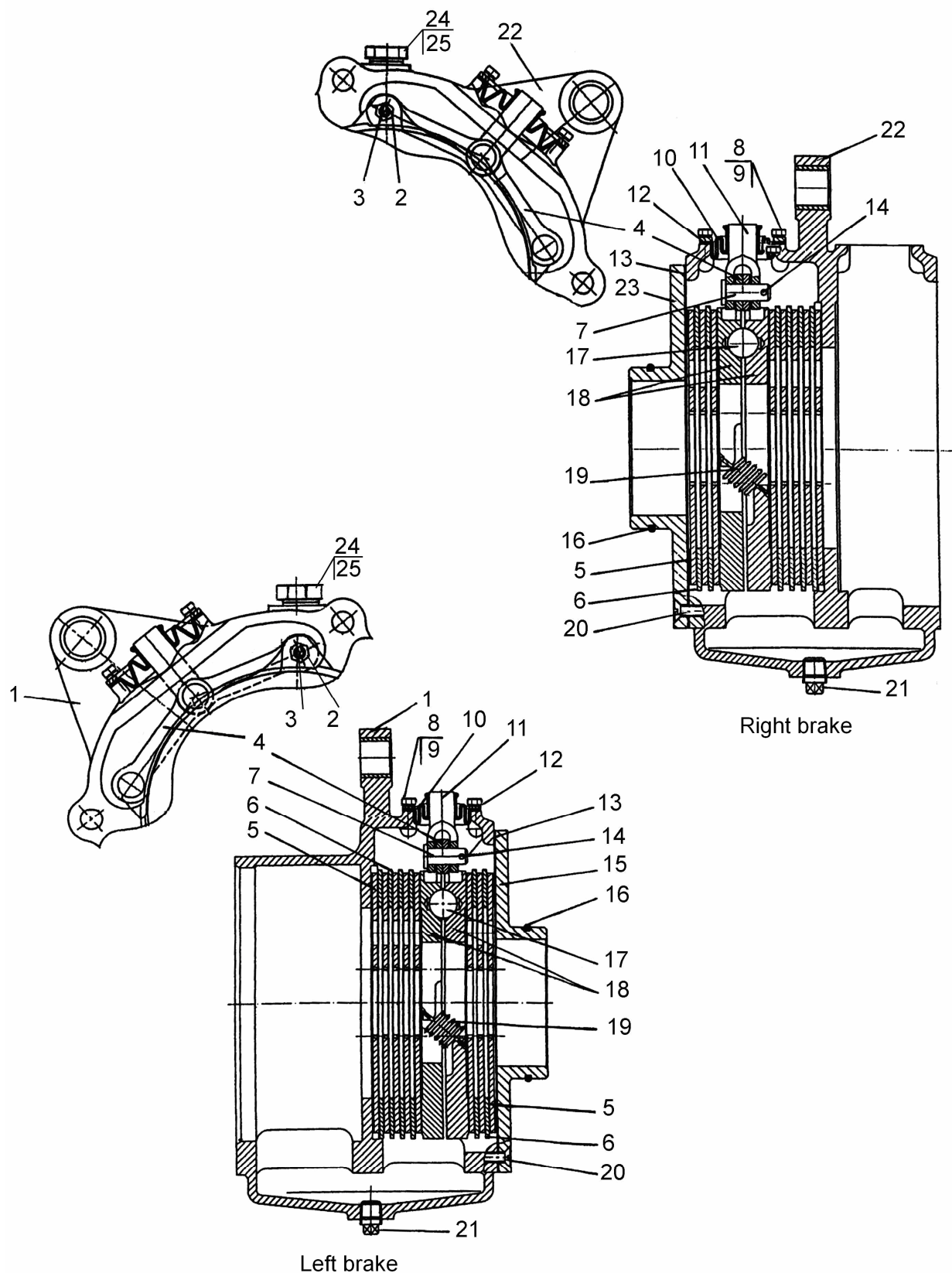


Fig. 35.2. Wet Brakes

BELARUS

1220.1/1220.3/1220.4

Group 35. Brakes
Subgroup 3502. Wet Brakes

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.2		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	M8-6H.6.019 GOST 5915-70	4	Nut
	3	50-3502198	4	Pin
	4	85-3502196	4	Rod
	5	1522-3502015-07	16	Disk
	6	80M-3502037	12	Intermediate disk (S=3,0mm) 2 pieces, selection
		80M-3502037-01	*	Intermediate disk (S=3,2mm)
		80M-3502037-02	*	Intermediate disk (S=3,4mm)
		80M-3502037-03	*	Intermediate disk (S=3,6mm)
		80M-3502037-04	*	Intermediate disk (S=3,8mm)
		80M-3502037-05	*	Intermediate disk (S=4,0mm)
		80M-3502037-06	*	Intermediate disk (S=4,2mm)
		80M-3502037-07	*	Intermediate disk (S=4,4mm)
	7	12x32 OST 37.001.163-97	2	Pin
	8	M6-6gx12.88.35.019 GOST 7798-70	8	Bolt
	9	6T OST 37.001.115-75	8	Washer
	10	80M-3502202	2	Case
	11	50-3502203	2	Fork
	12	80M-3502204	2	Plate
	13	1221M-3502051	2	Gasket
	14	3,2x18.019 GOST 397-79	2	Forelock
	15	1221M-2407059	1	Cage cover (left)
	16	115-120-30-2-2 GOST 18829-73/GOST9833-73	2	Ring
	17	22,225-100 GOST 3722-81	10	Ball
	18	85-3502036-01	4	Pressure disk
	19	77.38.163	6	Spring
	20	B.M8-6gx25.58.019 GOST 17475-80	6	Screw
	21	ПК КГ ³ / ₈ "	4	Plug
	22	1221M-3502035	1	Housing
	23	1221M-2407059-01	1	Cage cover (right)
	24	1221-1802091	2	Plug
	25	Д18-055-A	2	O-ring

* Selected during assembling for providing needed gap

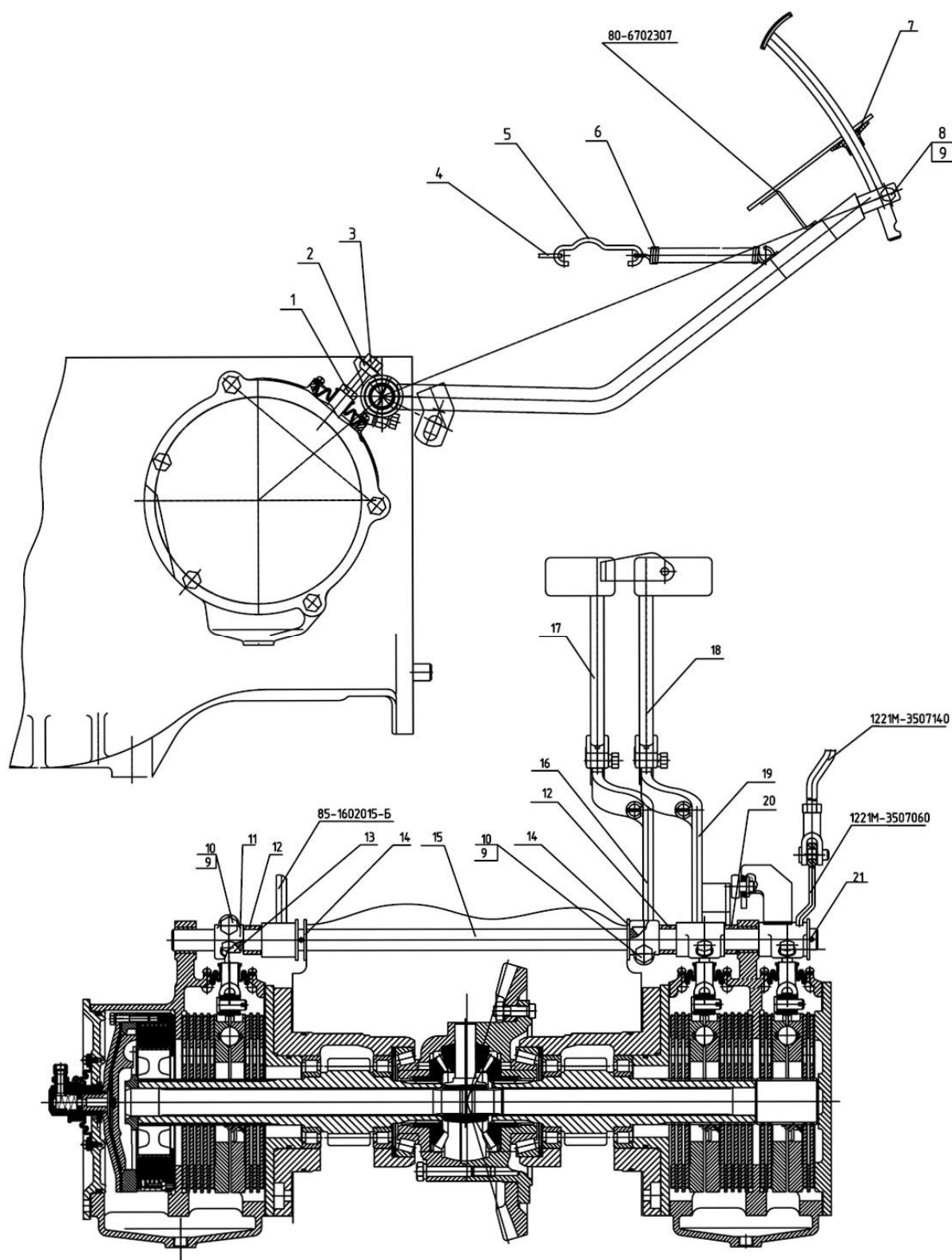


Fig. 35.3. Control of Wet Brakes

Group 35. Brakes
Subgroup 3503. Control of Wet Brakes

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.3		70-3503080	3	Rod (1-3)
	1	M12x1,25-6H.04.019 GOST 5916-70	2	Nut
	2	70-3503018	2	Washer
	3	70-3503019	2	Bolt
	4	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 GOST 7796-70	2	Bolt
	9	12 OT OST 37.001.115-75	4	Washer
	10	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	11	70-3503017-A	1	Lever
	12	1221M-3503016-01	2	Bushing
	13	CWJ-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 GOST 397-79	2	Forelock

* For reverse brakes control

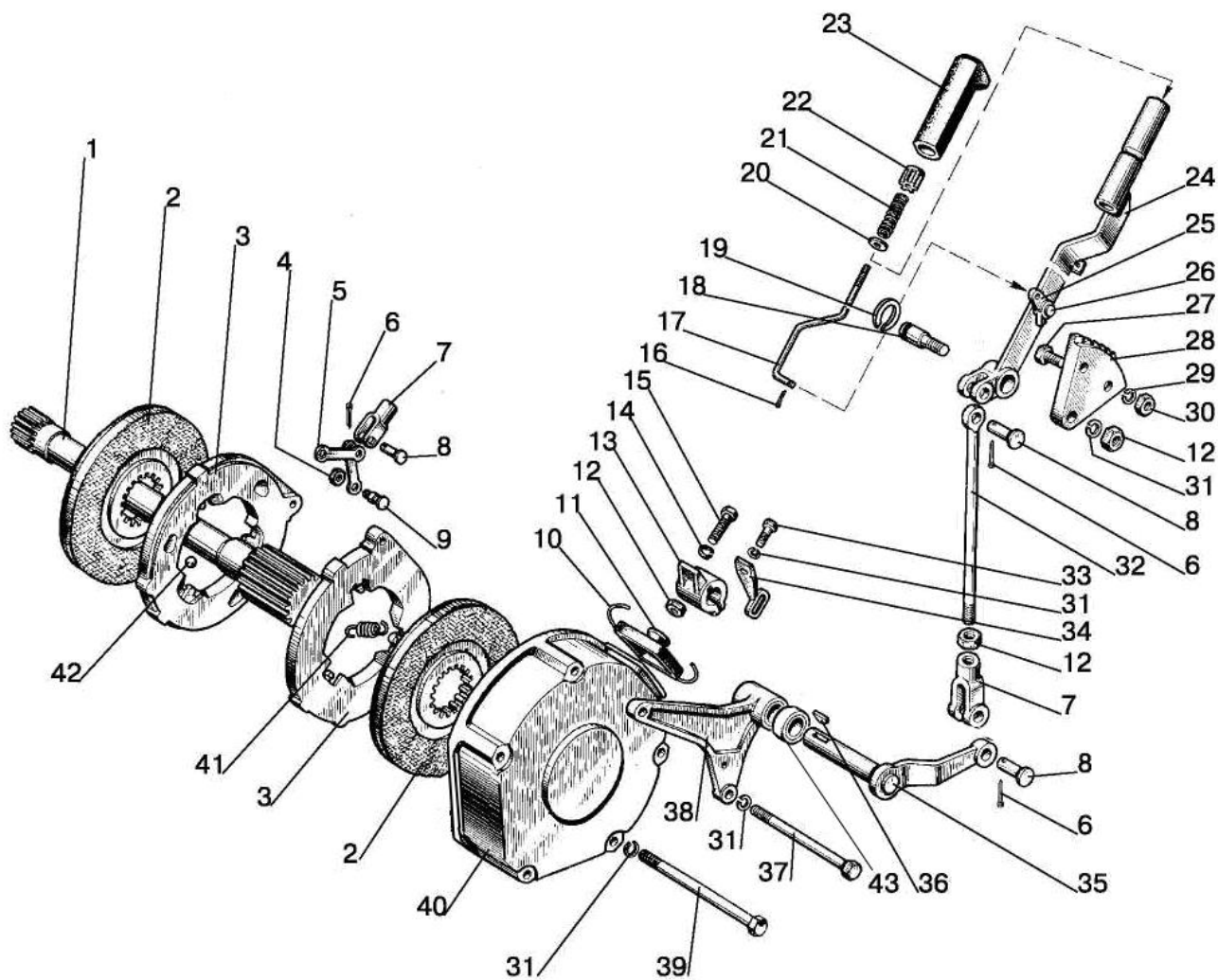


Fig. 35.4. Parking and Emergency Brake, Control of Parking and Emergency Brake

BELARUS

1220.1/1220.3/1220.4

**Group 35.Brakes. Subgroup 3504, 3507. Parking and Emergency Brake.
Control of Parking and Emergency Brake**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.4		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)
		85-3507240 (85-3507140 *)	1	Rod (7,12,32)
		85-3507150-01 (85-3507150-03 *)	1	Bracket (13,31,33-36,38,43)
		85-3507120-01	1	Lever (16,17,20-26)
	1	70-3504055-01 (70-3504055 *)	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 GOST 5915-70	2	Nut
	5	50-3502196	2	Rod
	6	3,2x18.019 GOST 397-79	3	Forelock
	7	50-3502203	2	Fork
	8	12x32 OST 37.001.163-75	3	Pin
	9	50-3502198	2	Pin
	10	1,6-O-C GOST 3282-74	1	Wire (300 mm)
	11	50-3502202	1	Case
	12	M12x1,25-6H.04.019 GOST 5916-70	3	Nut
	13	70-3503017-A	1	Lever
	14	70-3503018	1	Washer
	15	70-3503019	1	Bolt
	16	2x12.019 GOST 397-79	1	Forelock
	17	70-3507122-01	1	Rod
	18	70-3507132-B-01	1	Axis
	19	C15 GOST 13942-86	1	Ring
	20	C 5.01.019 GOST 6958-78	1	Washer
	21	55-17-27	1	Spring
	22	A13.19.002	1	Button
	23	A13.19.001-A	1	Handle
	24	85-3507130-01	1	Lever
	25	50-1606026	1	Latch
	26	70-3507024	1	Axis
	27	M10-6gx35.88.35.019 GOST 7796-70	2	Bolt
	28	70-3507021-B	1	Quadrant
	29	10 OT OST 37.001.115-75	2	Washer
	30	M10-6H.6.019 GOST 5915-70	2	Nut
	31	12 OT OST 37.001.115-75	7	Washer
	32	85-3507241 (85-3507141 *)	1	Rod
	33	M12-6gx40.88.35.019 GOST 7796-70	1	Bolt
	34	80-3514107 (70-3514107 *)	1	Lever
	35	85-3507060	1	Shaft
	36	CUJ-611	1	Key 6x11
	37	1522-2409034-03 (M12-6gx200.58.019 GOST 7795-70 *)	2	Bolt
	38	70-3507070-01	1	Bracket
	39	M12-6gx200.58.019 GOST 7795-70 (M12-6gx180.58.019 GOST 7795-70 *)	3	Bolt
	40	50-3502035-A2-02	1	Casing
	41	77.38.163	3	Spring
	42	22,225-100 GOST 3722-81	3	Ball
	43	1221-3507072	1	Bushing

* During the mounting of double-disk brakes

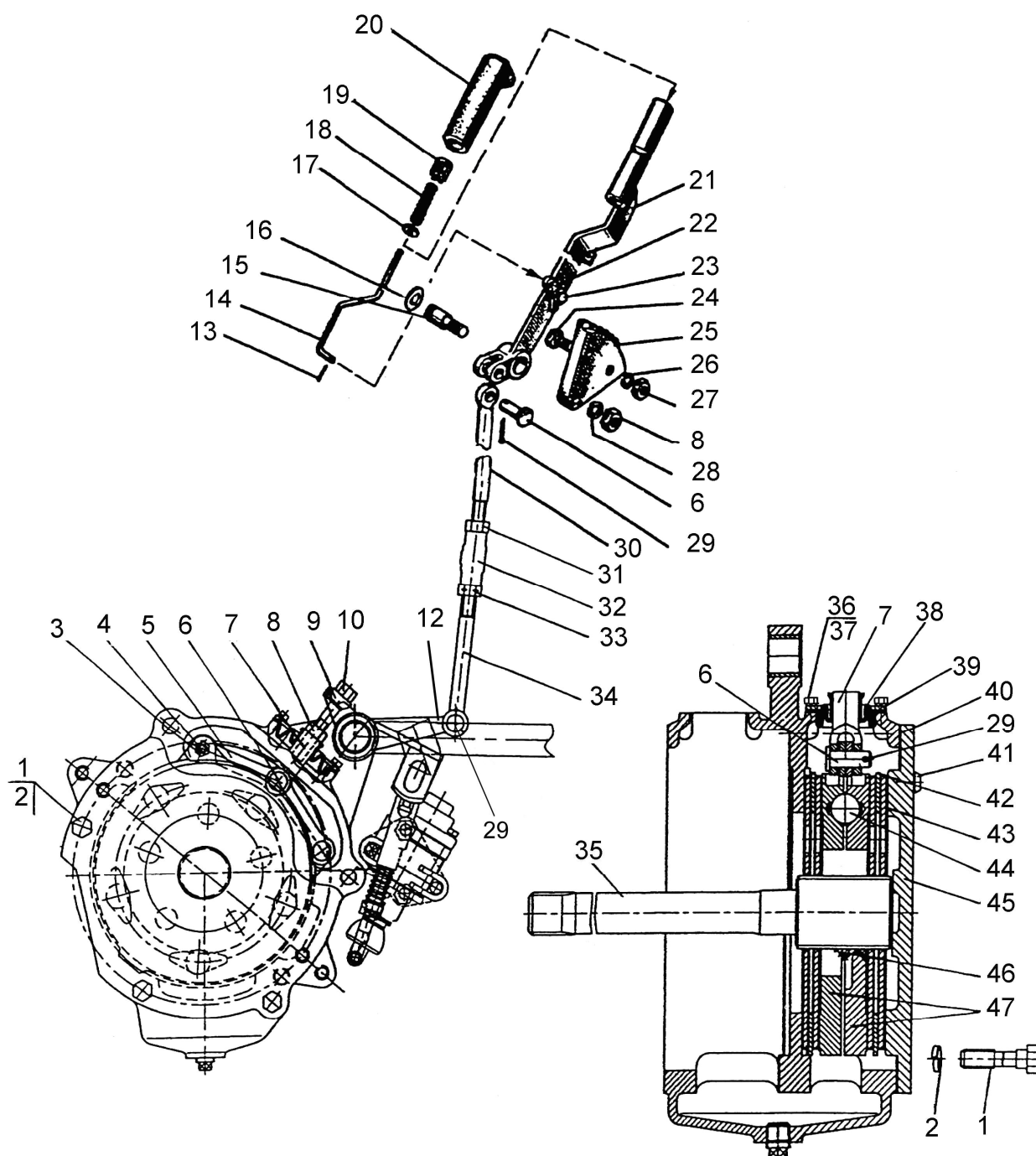


Fig. 35.5. Parking and Emergency Brake. Control of Parking and Emergency Brake (for Wet Brakes)

BELARUS

1220.1/1220.3/1220.4

Group 35. Brakes Subgroup 3504, 3507. Parking and Emergency Brake.

Control of Parking and Emergency Brake (for Wet Brakes)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
35.5		85-3502030-01	1	Pressure disks (3-7, 29, 44, 46, 47)
		1221M-3507140	1	Rod (30-34)
		70-3503080	1	Brake rod (8-10)
		85-3507120-01	1	Lever (13-14,17-23)
	1	1221M-3502039-01	5	Bolt
	2	14 OT OST 37.001.115-75	5	Washer
	3	M8-6H.6.019 GOST 5915-70	2	Nut
	4	50-3502198	2	Pin
	5	85-3502196	2	Rod
	6	12x32 OST 37.001.163-75	2	Pin
	7	50-3502203	1	Fork
	8	M12x1,25-6H.6.019 GOST 5916-70	2	Nut
	9	70-3503018	1	Washer
	10	70-3503019	1	Bolt
	12	1221M-3507060	1	Lever
	13	2x12.019 GOST 397-79	1	Forelock
	14	70-3507122-01	1	Rod
	15	70-3507132-B-01	1	Axis
	16	C15 GOST 13942-86	1	Ring
	17	C 5.01.019 GOST 6958-78	1	Washer
	18	55-17-27	1	Spring
	19	A13.19.002	1	Button
	20	A13.19.001-A	1	Handle
	21	85-3507130-01	1	Lever
	22	50-1606026	1	Latch
	23	70-3507024	1	Axis
	24	M10-6gx35.88.35.019 GOST 7796-70	2	Bolt
	25	70-3507021-B	1	Quadrant
	26	10 OT OST 37.001.115-75	2	Washer
	27	M10-6H.6.019 GOST 5915-70	2	Nut
	28	12 OT OST 37.001.115-75	1	Washer
	29	3,2x18.019 GOST 397-79	3	Forelock
	30	1221M-3507141	1	Rod
	31	M12-6H.6.019 GOST 5915-70	1	Nut
	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 GOST 7798-70	4	Bolt
	37	6T OST 37.001.115-75	4	Washer
	38	80M-3502202	1	Case
	39	80M-3502204	1	Plate
	40	1221M-3502051	1	Gasket
	41	50-1601352	2	Locating pin
	42	80M-3502037	2	Intermediate disk (S=3,0mm)
		80M-3502037-01	*	Intermediate disk (S=3,2mm)
		80M-3502037-02	*	Intermediate disk (S=3,4mm)
		80M-3502037-03	*	Intermediate disk (S=3,6mm)
		80M-3502037-04	*	Intermediate disk (S=3,8mm)
		80M-3502037-05	*	Intermediate disk (S=4,0mm)
		80M-3502037-06	*	Intermediate disk (S=4,2mm)
		80M-3502037-07	*	Intermediate disk (S=4,4mm)
	43	1522-3502015-07	4	Disk
	44	22.225-100	5	Ball GOST 3722-81
	45	1221M-3502034	1	Cover
	46	77.38.163	3	Spring
	47	85-3502036-01	2	Pressure disk

* Selected during assembling for providing needed gap

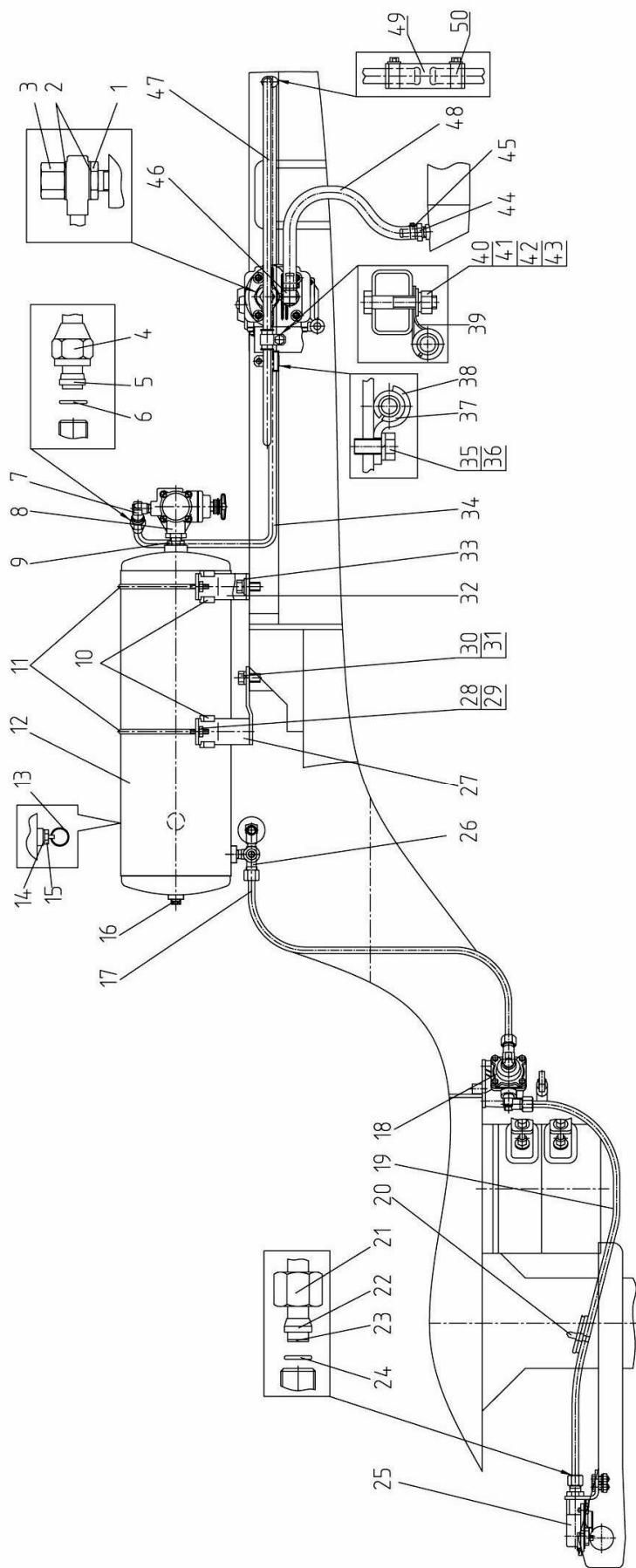


Fig.35.6. Pneumatic Drive 1220-3506005

BELARUS
1220.1/1220.3/1220.4

Group 35. Brakes
Subgroup 3506. Pneumatic Drive (Single-line)

Fig.No	Pos.No	Designation	Q-ty	Name
35.6		1220-3506005	1	Pneumatic drive
	1	1025-3506622	1	Coupling
	2	40-4607038-A	2	Washer
	3	1025-3506623	1	Nut
	4	70-3506023	1	Captive nut
	5	70-3506028	1	Coupling
	6	014-017-19-2-4 GOST 18829-73/ GOST 9833-73	1	Ring
	7	70-3506033	1	Elbow
	8	A29.51.000 Б	1	Pressure regulator
	9	80-3512006	1	Lock nut
	10	ПП-43-01	4	Seal
	11	B50-3513032	2	Clamp
	12	1021-3513020	1	Ballon
	13	H50-4202146	1	Ring
	14	PM22	1	Washer
	15	85-3513110	1	Valve
	16	ПК КГ 3/8"	1	Plug
	17	1021-3506020-02	1	Pipeline
	18	85M-3514010-03	1	Brake valve
	19	1522M-3506050	1	Pipeline
	20	80-3723045-01	1	Collar
	21	1522-3506023	4	Captive nut
	22	1522-3506024	4	Coupling
	23	1522-3506022	4	Nipple
	24	012-015-19-2-4 GOST 18829-73/ GOST 9833-73	4	Ring
	25	1021-3521005	1	Coupling head
	26	921-3513020	1	Three way pipe
	27	1021-3513010	1	Bracket
	28	M6-6H.6.019 GOST 5915-70	2	Nut
	29	6T OST 37.001.115-75	2	Washer
	30	M16-6gx32.88.35.019 GOST 7796-70	4	Bolt
	31	16 OT OST 37.001.115-75	4	Washer
	32	B50-3513025-A	1	Bracket
	33	C 16.01.019 GOST 6958-78	7	Washer
	34	1021-3506620	1	Pipeline
	35	M10-6gx16.88.35.019 GOST 7796-70	1	Bolt
	36	10 OT OST 37.001.115-75	1	Washer
	37	70-3506027	2	Bushing
	38	102-3407014	1	Joke
	39	1321-8700031	1	Clamp
	40	M8-6gx40.88.35.019 GOST 7795-70	1	Bolt
	41	M8-6H.6.019 GOST 5915-70	1	Nut
	42	8T OST 37.001.115-75	1	Washer
	43	C 8.01.019 GOST 11371-78	1	Washer
	44	242-3509213	1	Coupling
	45	25-40	2	Clamp with worm thread
	46	265-3509030 or 242-3509213	1	Coupling
	47	1021-3506610	1	Pipeline
	48	1025-3506624	1	Hose
	49	70-1405013	1	Hose
	50	16-27	2	Clamp with worm thread

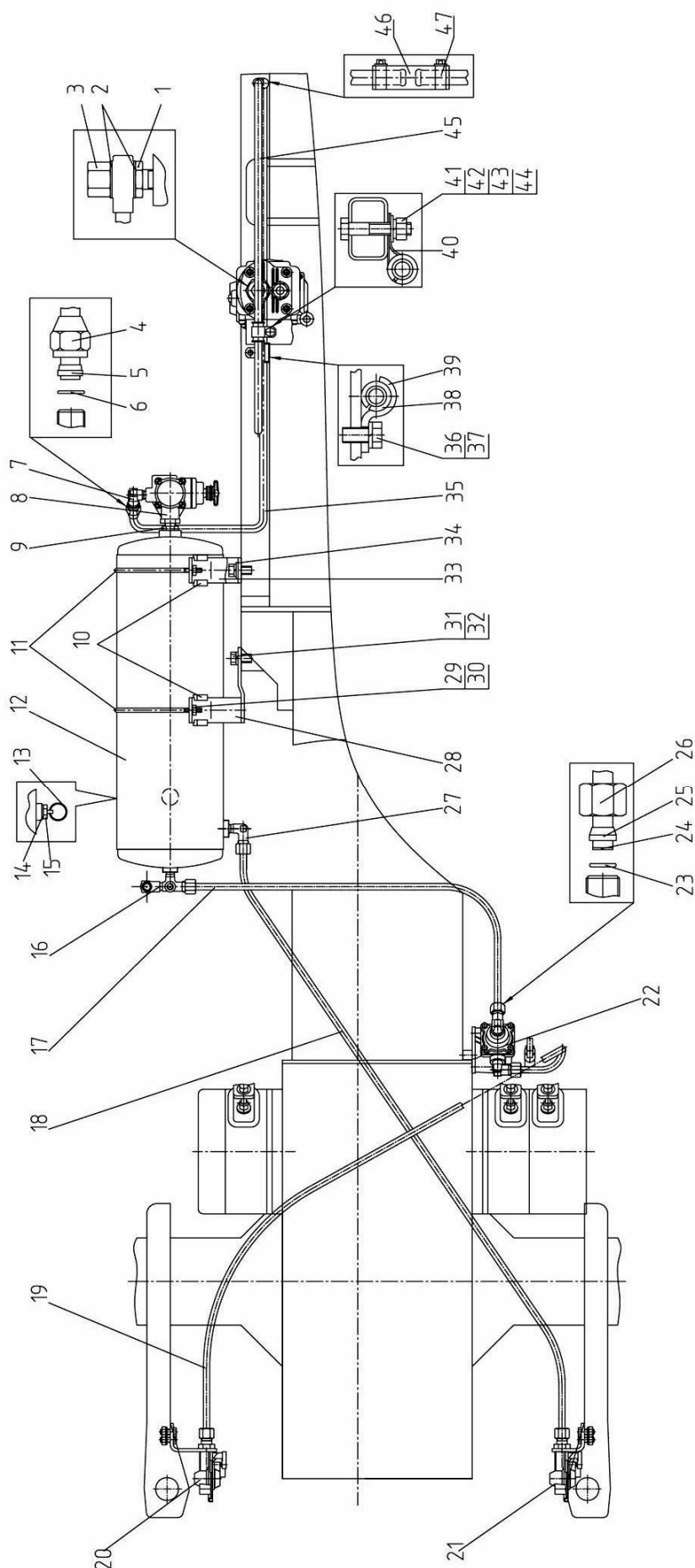


Fig.35.7. Pneumatic Drive 1220-3506505

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1220.1/1220.3/1220.4

Group 35. Brakes
Subgroup 3506. Pneumatic Drive (Double-line)

Fig.No	Pos.No	Designation	Q-ty	Name
35.7		1220-3506505¹⁾	1	Pneumatic drive
	1	1025-3506622	1	Coupling
	2	40-4607038-A	2	Washer
	3	1025-3506623	1	Nut
	4	70-3506023	1	Captive nut
	5	70-3506028	1	Coupling
	6	014-017-19-2-4 GOST 18829-73/ GOST 9833-73	1	Ring
	7	70-3506033	1	Elbow
	8	A29.51.000 B	1	Pressure regulator
	9	80-3512006	1	Lock nut
	10	ПП-43-01	4	Seal
	11	B50-3513032	2	Clamp
	12	1021-3513020	1	Ballon
	13	H50-4202146	1	Ring
	14	PM22	1	Washer
	15	85-3513110	1	Valve
	16	921-3513020	1	Three way pipe
	17	1021-3506020-02	1	Pipeline
	18	320-3506510-03	1	Pipeline
	19	1025-3506560-02	1	Pipeline
	20	1025-3521510	1	Coupling head
	21	1025-3521505	1	Coupling head
	22	85M-3514010-02	1	Brake valve
	23	012-015-19-2-4 GOST 18829-73/ GOST 9833-73	6	Ring
	24	1522-3506022	6	Nipple
	25	1522-3506024	6	Coupling
	26	1522-3506023	6	Captive nut
	27	1522-3514033	1	Elbow
	28	1021-3513010	1	Bracket
	29	M6-6H.6.019 GOST 5915-70	2	Nut
	30	6T OST 37.001.115-75	2	Washer
	31	M16-6gx32.88.35.019 GOST 7796-70	4	Bolt
	32	16 OT OST 37.001.115-75	4	Washer
	33	B50-3513025-A	1	Bracket
	34	C 16.01.019 GOST 6958-78	7	Washer
	35	1021-3506620	1	Pipeline
	36	M10-6gx16.88.35.019 GOST 7796-70	1	Bolt
	37	10 OT OST 37.001.115-75	1	Washer
	38	70-3506027	2	Bushing
	39	102-3407014	1	Joke
	40	1321-8700031	1	Clamp
	41	M8-6gx40.88.35.019 GOST 7795-70	1	Bolt
	42	M8-6H.6.019 GOST 5915-70	1	Nut
	43	8T OST 37.001.115-75	1	Washer
	44	C 8.01.019 GOST 11371-78	1	Washer
	45	1021-3506610	1	Pipeline
	46	70-1405013	1	Hose
	47	16-27	2	Clamp with worm thread

¹⁾ For tractors BELARUS – 1220.4

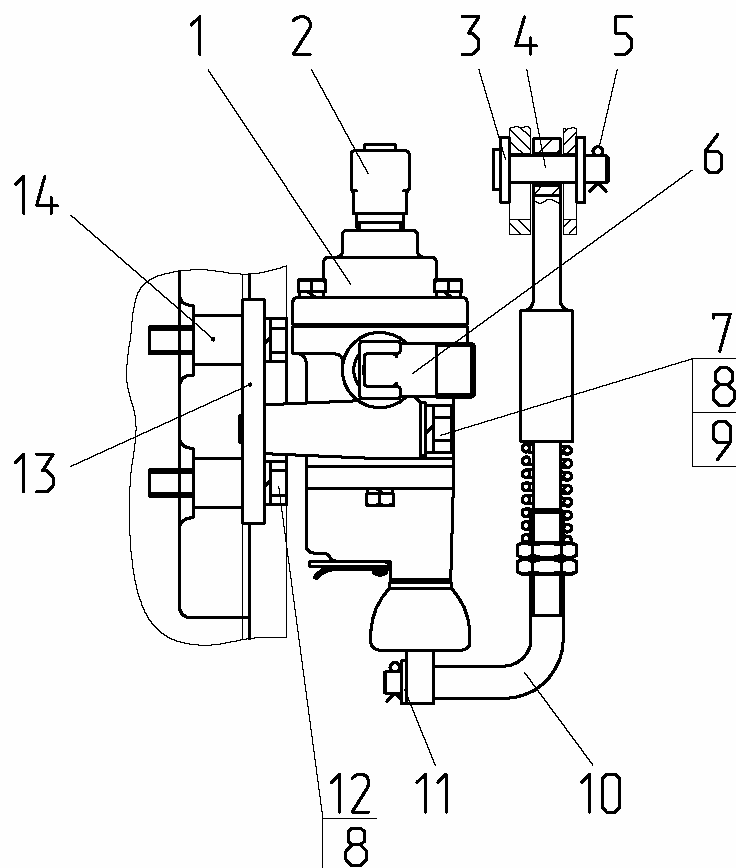


Fig.35.8. Brake Valve

Group 35. Brakes
Subgroup 3514. Brake Valve

Fig.No	Pos.No	Designation	Q-ty	Name
35.8		85M-3514010-03 ¹⁾	1	Brake valve (1-14)
		85M-3514010-02 ²⁾		
	1	A29.351.4010 ¹⁾ or 80-3514010 ¹⁾	1	Brake valve
		A29.351.4010-02 ²⁾ or 80-3514010-02 ²⁾	1	Brake valve
	2	1522-3514033	1	Elbow
	3	C 12.01.019 GOST 11371-78	2	Washer
	4	12x40 OST 37.001.163-97	1	Pin
	5	3,2x18.019 GOST 397-79	2	Forelock
	6	1522-3514033	1	Elbow
	7	M10-6gx70.88.35.019 GOST 7795-70	2	Bolt
	8	10 OT OST 37.001.115-75	4	Washer
	9	C 10.01.019 GOST 11371-78	2	Washer
	10	80-3514130	1	Rod
	11	C 8.01.019 GOST 11371-78	1	Washer
	12	M10-6gx45.88.35.019 GOST 7795-70	2	Bolt
	13	85M-3514011	1	Bracket
	14	85-3514012	2	Lug

¹⁾ For single-line pneumatic drive

²⁾ For double-line pneumatic drive

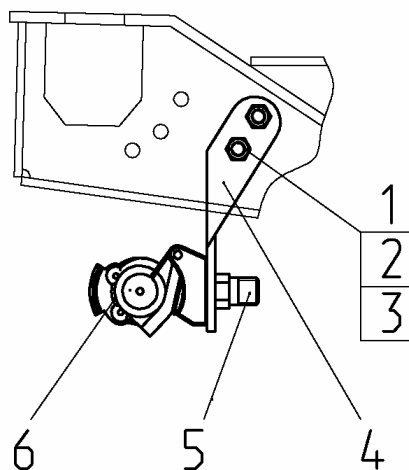


Fig.35.9. Coupling Head

Group 35. Brakes
Subgroup 3521. Coupling Head
 (for Single-line Pneumatic Drive)

Fig.No	Pos.No	Designation	Q-ty	Name
35.9		1021-3521005	1	Coupling head (1-6)
	1	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	2	M10-6H.6.019 GOST 5915-70	2	Nut
	3	10 OT OST 37.001.115-75	2	Washer
	4	70-3521012	1	Bracket
	5	1522-3521012	1	Coupling
	6	80-3521010	1	Coupling head

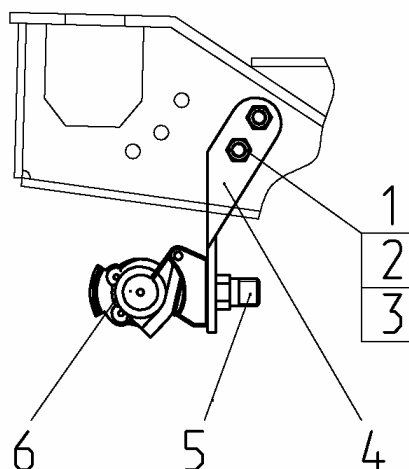


Fig.35.10. Coupling Head

Group 35. Brakes
Subgroup 3521. Coupling Head
(for Double-line Pneumatic Drive)

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

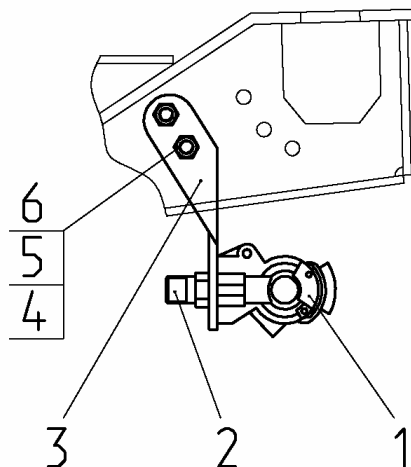
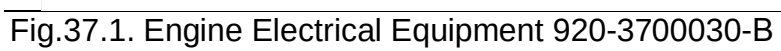


Fig.35.11. Coupling Head

Group 35. Brakes
Subgroup 3521. Coupling Head
(for Double-line Pneumatic Drive)

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



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1220.1/1220.3/1220.4

Group 37. Electrical Equipment
Subgroup 3700. Engine Electrical Equipment

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.1		920-3700030-B¹⁾	1	Engine electrical equipment
	1	70-3723035	4	Tip
	5	822-3723044	1	Clamp
	6	80-3747021	1	Bracket
	7	80-3829002	1	Coupling
	9	M2-14.13.238	2	Case
	10	TM-59-6000-38	1	Rubber tip
	3	80-3723045	3	Collar
	4	80-3723045-01	22	Collar
	12	M6-6gx20.58.35.019 GOST 7798-70	2	Bolt
	14	B.M6-6gx20.58.019 GOST 17473-80	4	Screw
	15	M6-6H.6.019 GOST 5915-70	6	Nut
	17	M5-6H.6.019 GOST 5927-70	4	Nut
	19	C 6.01.019 GOST 11371-78	2	Washer
	22	920-3724345-B GOST 23544-84	1	Cord
	23	920-3724360-B1 GOST 23544-84	1	Cord
	24	80-3724380-A GOST 23544-84	1	Cord
	26	920-3724367 GOST 23544-84	1	Wire
	27	920-3724368-B GOST 23544-84	1	Wire
	28	80-3724381 GOST 23544-84	1	Wire
	32	5T OST 37.001.115-75	4	Washer
	33	6T OST 37.001.115-75	6	Washer
	37	3722.40	1	Fuse block
	38	3829.15	2	Oil pressure emergency sensor
	39	3844.10	1	Emergency temperature sensor
	40	3829.10	1	Engine oil pressure sensor
	41	3845.10	1	Engine air cleaner clogging sensor
	42	3828.10	1	Temperature gauge sensor
	43	3747.35	1	Glow plug relay
	45	3759.10	1	Voltage transducer
	46	3844.15	1	Glow plug sensor

¹⁾ For tractors BELARUS-1220.1/1220.3 and BELARUS-1220.4 (engine D-245.2S3AM with Mercer system)

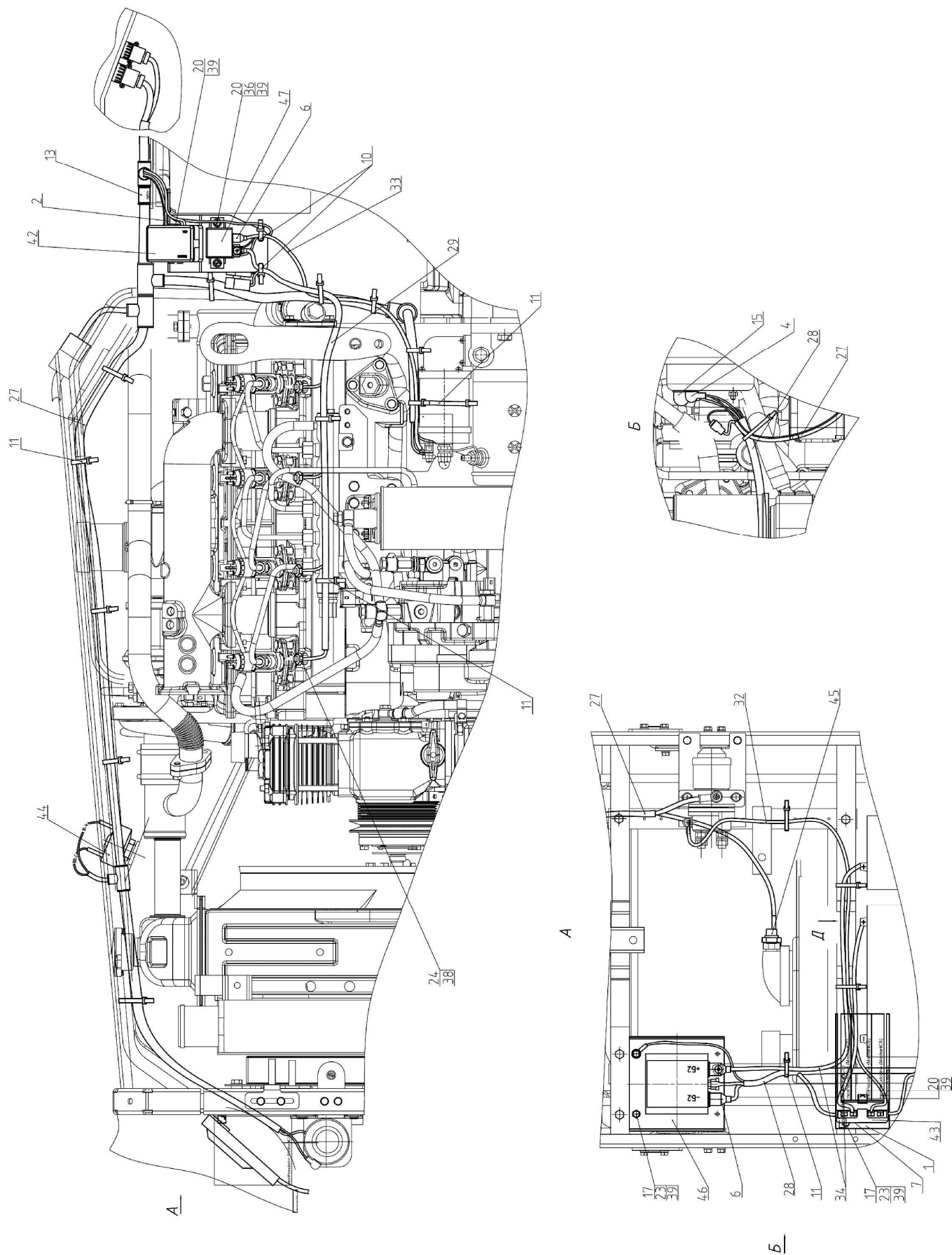


Fig.37.2. Engine Electrical Equipment 1025.4M-3700030

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1220.1/1220.3/1220.4

Group 37. Electrical Equipment
Subgroup 3700. Engine Electrical Equipment

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.2		1025.4M-3700030¹⁾	1	Engine electrical equipment
	1	1025.4-3722020	1	Bracket
	2	1221.4-3747020	1	Bracket
	4	54.24.445-B	1	Tip
	6	320-3407004	1	Bushing
	7	70-3723035	4	Tip
	10	80-3723045	4	Collar
	11	80-3723045-01	24	Collar
	13	822-3723044	1	Clamp
	15	TM-59-6000-38	1	Rubber tip
	17	M6-6gx20.88.35.019 GOST 7798-70	4	Bolt
	20	B.M6-6gx20.58.019 GOST 17473-80	6	Screw
	23	M6-6H.6.019 GOST 5915-70	4	Nut
	24	M5-6H.6.019 GOST 5927-70	4	Nut
	27	1025.4M-3724360 GOST 23544-84	1	Cord
	28	1025.4-3724345 GOST 23544-84	1	Cord
	29	80-3724380-A GOST 23544-84	1	Cord
	31	1025.4-3724045 GOST 23544-84	1	Wire
	32	1025.4-3724367 GOST 23544-84	1	Wire
	33	80-3724381 GOST 23544-84	1	Wire
	34	920-3724368-B GOST 23544-84	2	Wire
	36	C 6.01.019 GOST 11371-78	2	Washer
	38	5T OST 37.001.115-75	4	Washer
	39	6T OST 37.001.115-75	10	Washer
	42	3722.40	1	Fuse block
	43	3722.55	1	Fuse block
	44	3845.10	1	Engine air cleaner clogging sensor
	45	3829.15	1	Oil pressure emergency sensor
	46	3759.10	1	Voltage transducer
	47	3747.35	1	Glow plug relay

¹⁾ For tractors BELARUS-1220.4 (engine D-245.2S3A with Common Rail system)

Fig. 1

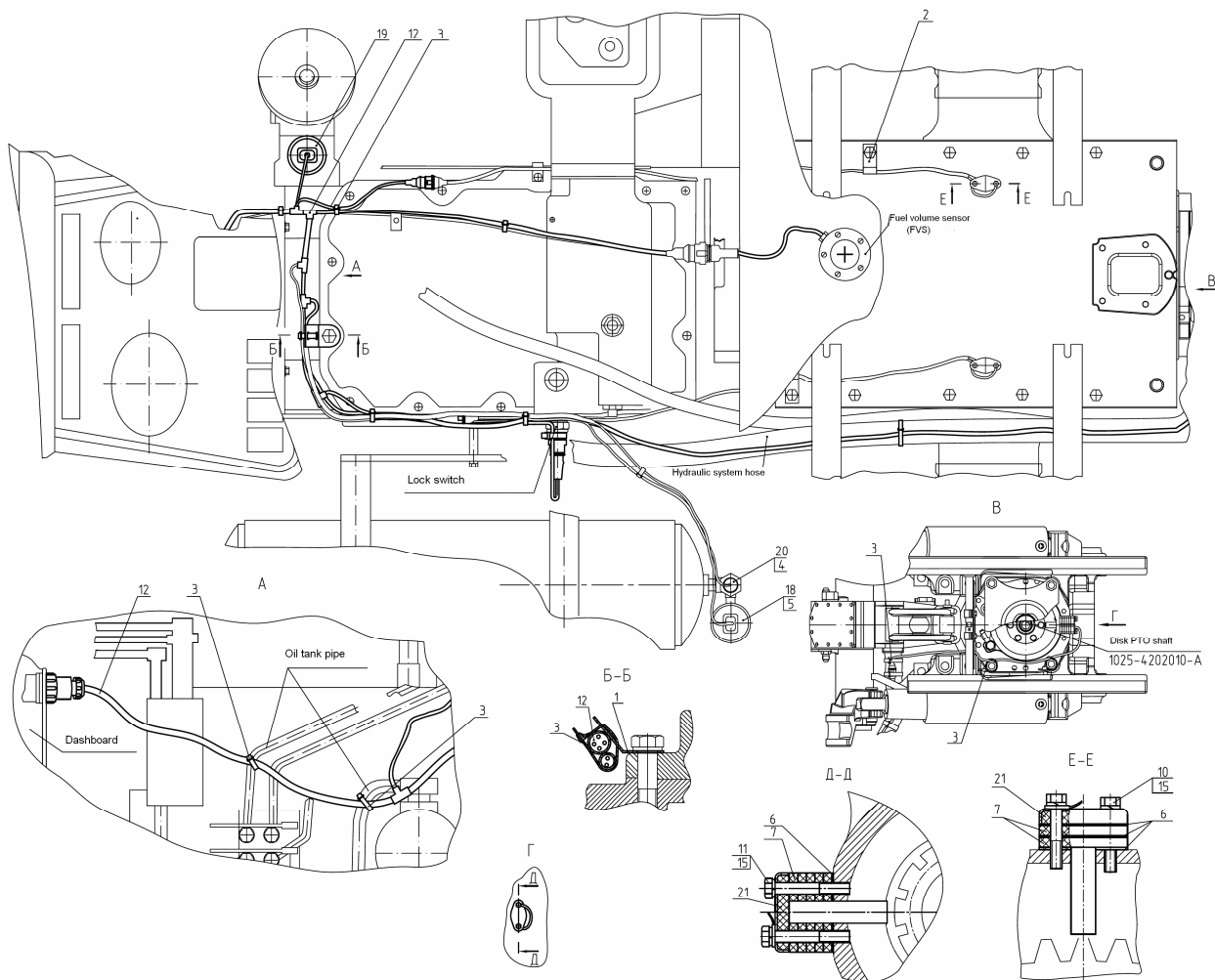


Fig. 3

See the rest on Fig. 1

Fig. 2
See the rest on Fig. 1

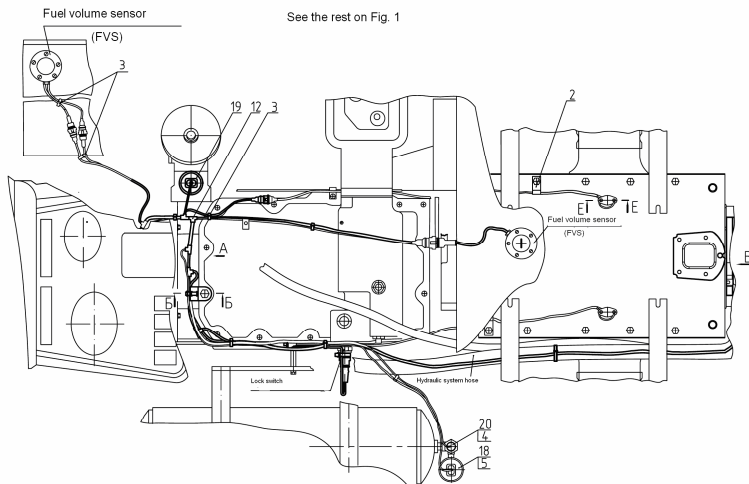
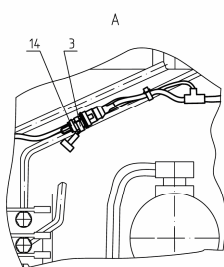


Fig.37.3. Transmission Electrical Equipment

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1220.1/1220.3/1220.4

Group 37. Electrical Equipment
Subgroup 3700. Transmission Electrical Equipment

Fig.No	Pos.N	Assembly unit or part No	Q-ty				Name
37.3		1221-3700040-B-02 ¹⁾	1				Transmission electrical equipment
		1221-3700040-B-04 ²⁾		1			
		1221-3700040-B-05 ³⁾			1		
		1221-3700040-B-06 ⁴⁾				1	
	1	80-3723016	1	1	1	1	Bracket
	2	822-3723001	2	2	2	2	Joke
	3	80-3723045-01	21	21	24	24	Collar
	4	85-1702051	1	-	1	-	Washer
	5	Д18-055-A	1	-	1	-	O-ring
	6	80-3843001-01	20	20	20	20	Gasket (maximum)
	7	1522-3843002	9	9	9	9	Gasket (maximum)
	10	M8-6gx40.88.35.019 GOST 7795-70	4	4	4	4	Bolt
	11	M8-6gx55.88.35.019 GOST 7795-70	2	2	2	2	Bolt
	12	1220-3724315-B GOST 23544-84	1	1	-	-	Transmission cord
		1220-3724317-B GOST 23544-84	-	-	1	1	
	14	1221-3724003 GOST 23544-84	-	1	-	1	Jumper
	15	8T OST 37.001.115-75	6	6	6	6	Washer
	18	3829.20	1	-	1	-	Air pressure sensor
	19	3829.30	1	1	1	1	GB oil pressure sensor
	20	3829.25	1	-	1	-	Air emergency pressure sensor
	21	3843.15	3	3	3	3	Rpm sensor

¹⁾ For tractors with one fuel tank (Fig.1)

²⁾ For tractors with one fuel tank without pneumatic system (Fig.1, Fig.2)

³⁾ For tractors with two fuel tanks (Fig.3)

⁴⁾ For tractors with two fuel tanks without pneumatic system (Fig.3, Fig.2)

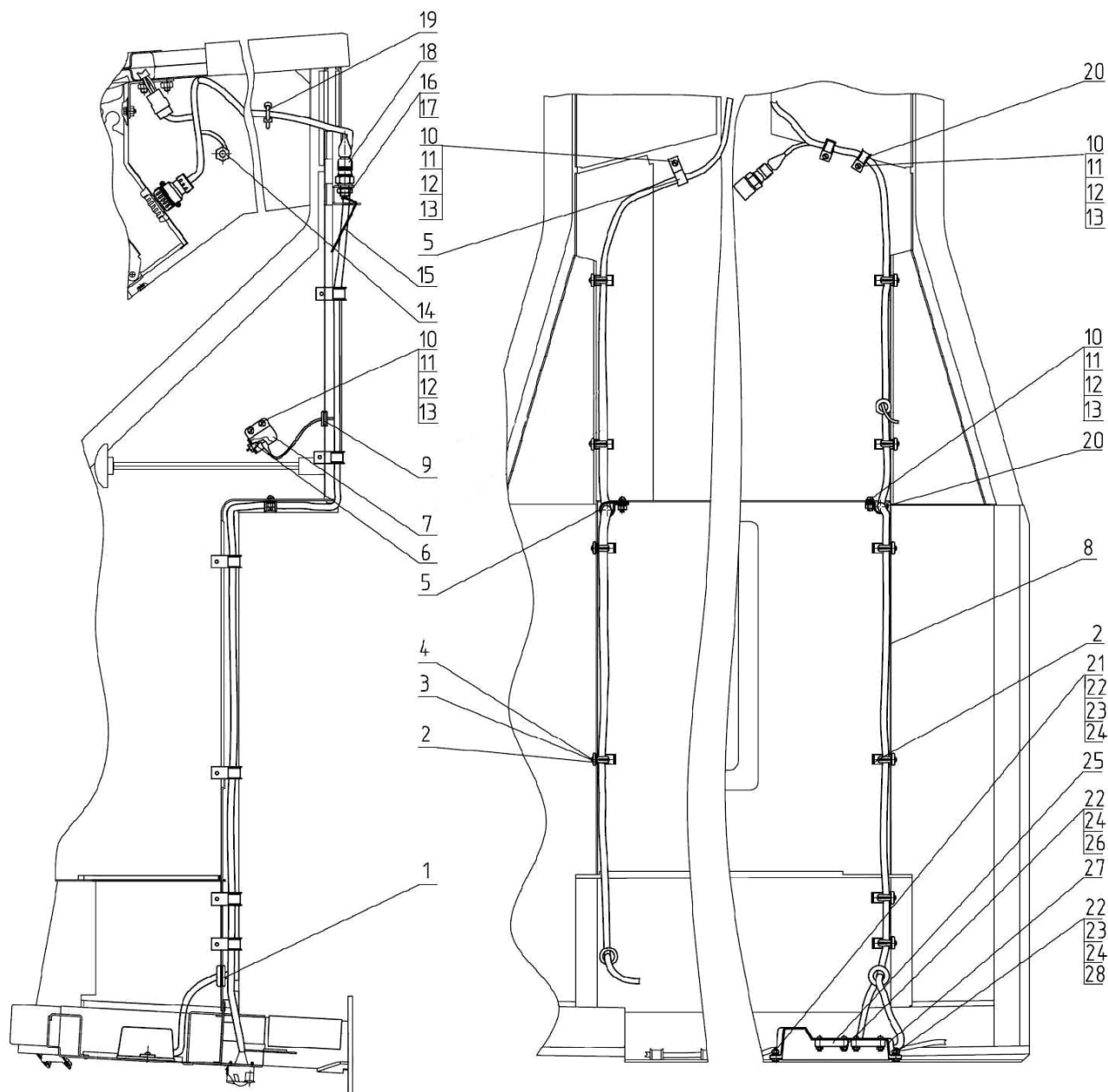


Fig.37.4. Cabin Electrical Equipment

BELARUS
1220.1/1220.3/1220.4

Group 37. Electrical Equipment
Subgroup 3700. Cabin Electrical Equipment

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

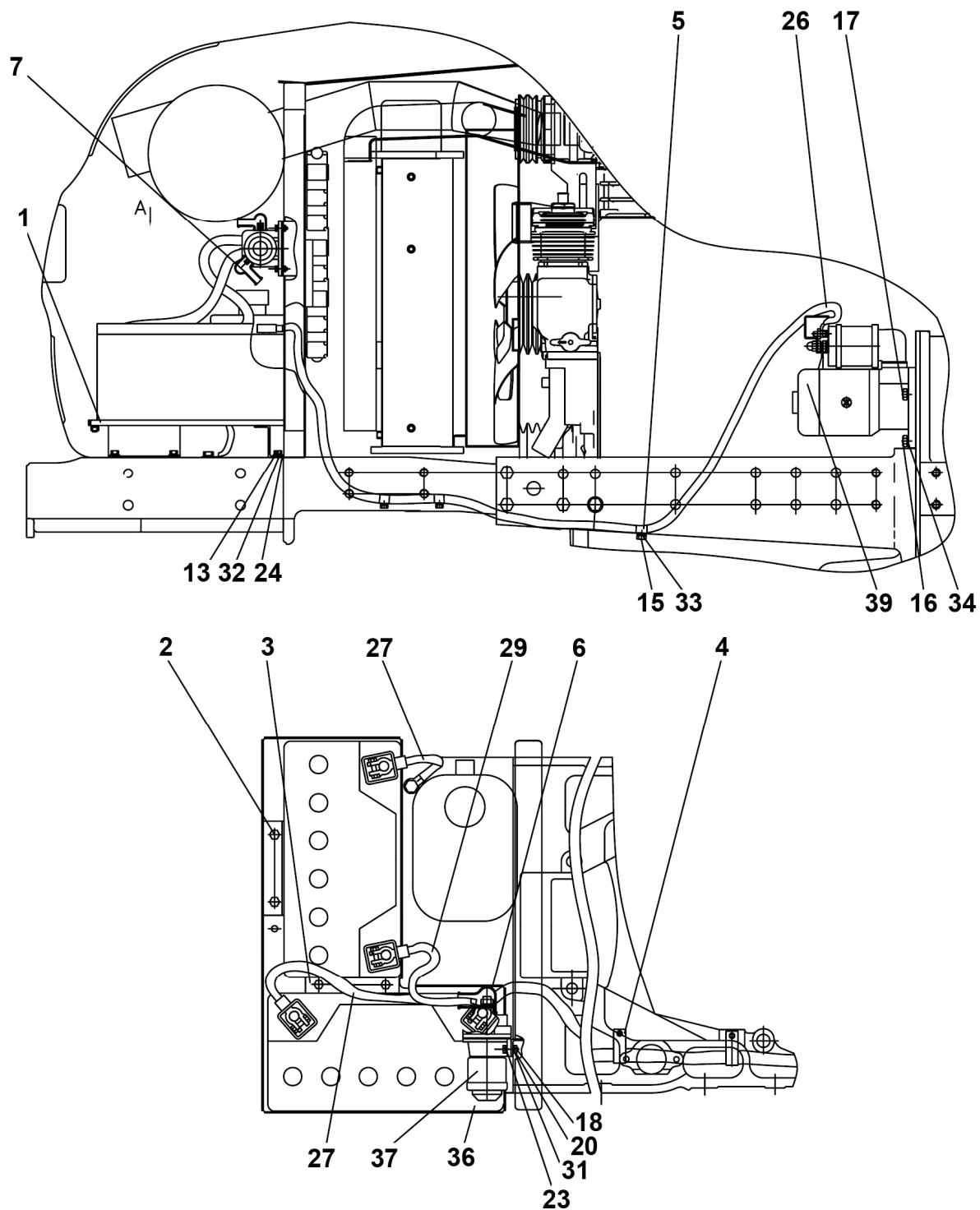


Fig. 37.5. Storage Batteries Assembly

BELARUS
1220.1/1220.3/1220.4

Group 37. Electrical Equipment
Subgroup 3703. Storage Batteries Assembly

Fig.No	Pos.No	Designation	Q-ty	Name
37.5		920-3700080	1	Storage batteries assembly (24 V)
	1	920-3703010-B	1	Base
	2	80B-3703020	1	Clamp
	3	80B-3703012-01	1	Clamp
	4	822-3723044	2	Clamp
	5	923-3723012	1	Clamp
	6	TM-59-6000-38	2	Rubber tip
	7	54.24.445-B	2	Tip
	13	M8-6gx20.88.35.019 GOST 7796-70	10	Bolt
	15	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	16	M12-6gx30.88.35.019 GOST 7796-70	3	Bolt
	17	M12-6gx45.88.35.019 GOST 7796-70	1	Bolt
	18	M6-6gx20.58.35.019 GOST 7798-70	2	Bolt
	20	M6-6H.6.019 GOST 5915-70	2	Nut
	23	C 6.01.019 GOST 11371-78	2	Washer
	24	C 8.01.019 GOST 11371-78	6	Washer
	26	923-3724041	1	Wire
	27	923-3724042	2	Wire
	29	1221B-3724044-B	1	Wire
	31	6T OST 37.001.115-75	2	Washer
	32	8T OST 37.001.115-75	10	Washer
	33	10 OT OST 37.001.115-75	1	Washer
	34	12 OT OST 37.001.115-75	4	Washer
	36	3703.16	2	Storage battery 12/88
	37	3737.15	1	Remote battery switch 24 V
	39	3708.15	1	Starter 24 V, 4 kW

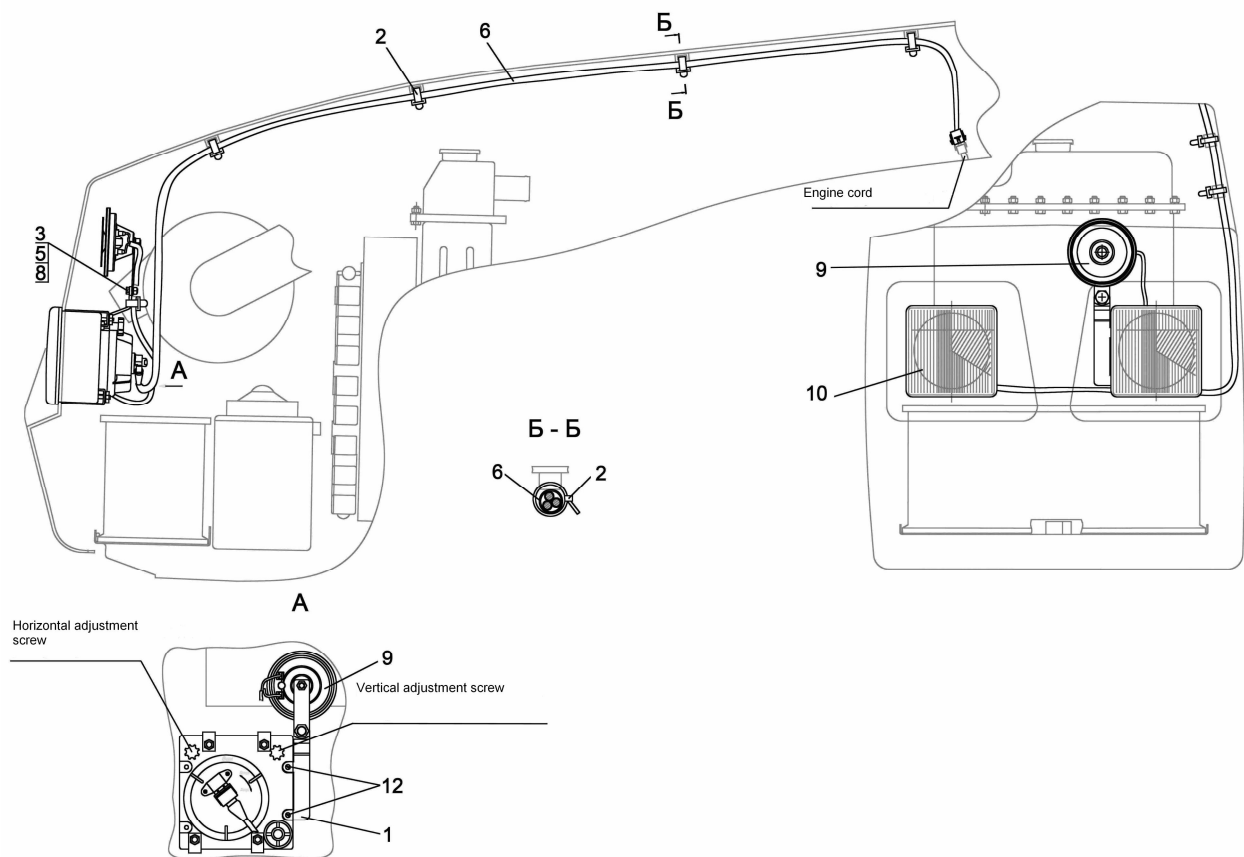


Fig. 37.6. Head Lamps Assembly

BELARUS**1220.1/1220.3/1220.4**

Group 37. Electrical Equipment
Subgroup 3711. Head Lamps Assembly

Fig.No	Pos.No	Designation	Q-ty	Name
37.6		921-3700020	1	Head lamps assembly
	1	921-3721001	2	Bracket
	2	80-3723045	5	Collar
	3	M8-6gx20.88.35.019 GOST 7796-70	1	Bolt
	5	M8-6H.6.019 GOST 5915-70	1	Nut
	6	921-3724025-Б GOST 23544-84	1	Cord
	8	8T OST 37.001.115-75	1	Washer
	9	20.3721-01	1	Beep
	10	08 7101 000	2	Head lamp
	12	4x16.019	2	Male screw

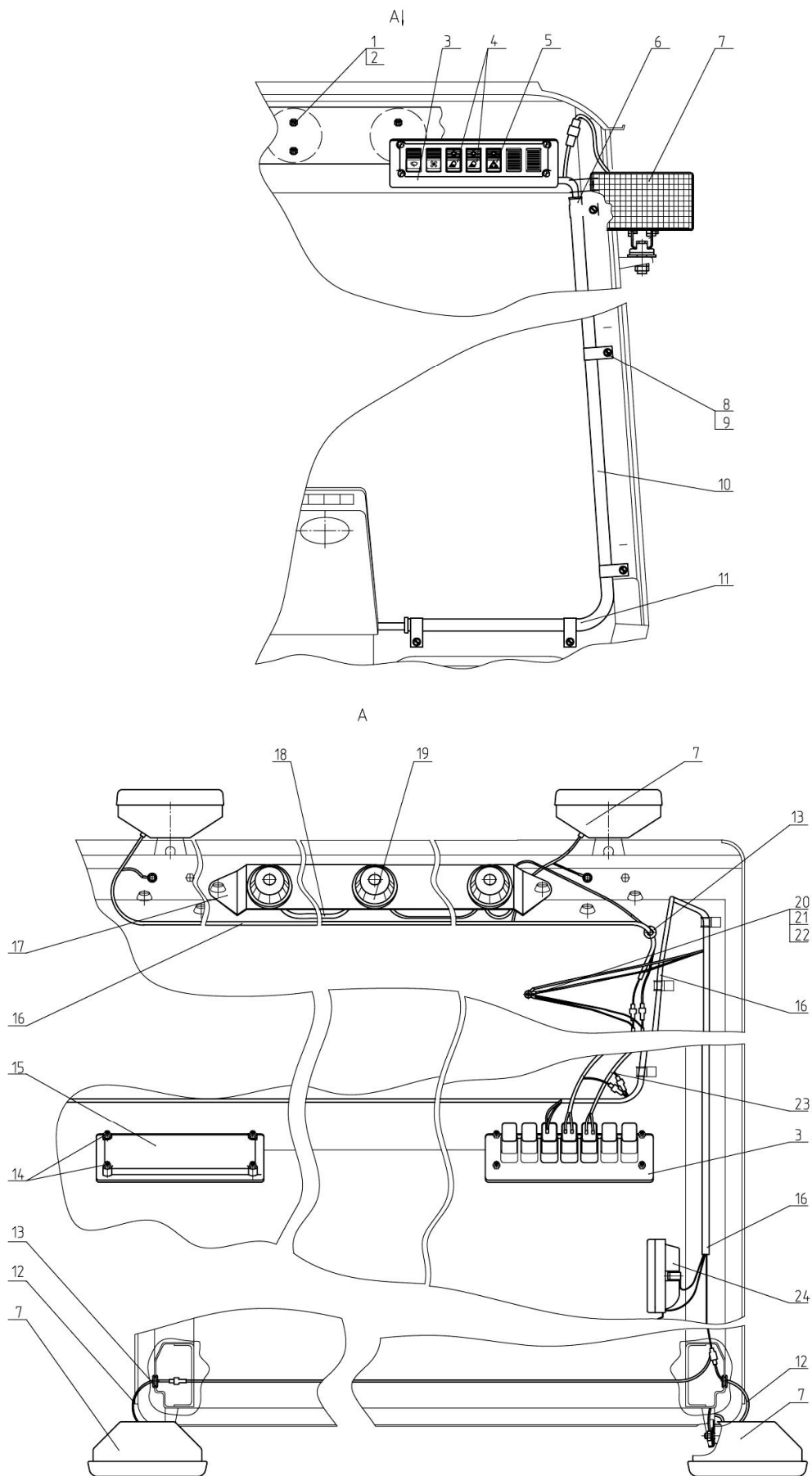


Fig.37.7 Working Lights Assembly

BELARUS

1220.1/1220.3/1220.4

Group 37. Electrical Equipment
Subgroup 3711. Working Lights Assembly

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.7		80-3700110-B ^{1,2)}		Working lights assembly
		80-3700110-B-01 ²⁾		
		80-3700110-B-02		
	1	M5-6H.6.019 GOST 5927-70	2	Nut
	2	5T OST 37.001.115-75	2	Spring washer
	3	80-3801342	1	Board
	4	3710.30	2	Working lights switch
	5	3710.40 ¹⁾	1	Roadtrain indicator switch
	6	80-3723010	1	Duct
	7	8724.304/311	4	Working light
		8724.31.06 ²⁾		
	8	B.M6-6gx12.58.019 GOST 17473-80	5	Screw
	9	C 6.01.019 GOST 11371-78	5	Washer
	10	80-3723020	1	Duct
	11	80-3723015	1	Duct
	12	80-3724035-B	2	Wire
	13	70-3723042-01	3	Bushing
	14	B.M6-6gx12.58.019 GOST 17474-80	8	Screw
	15	80-7901018	1	Board
	16	80-3724232-B	1	Cord
	17	80-3738001 ¹⁾	1	Bracket
	18	80-3724233-B ¹⁾	1	Cord
	19	3738.10 ¹⁾	3	Roadtrain lamp
	20	M6-6gx25.88.35.019 GOST 7798-70	1	Bolt
	21	M6-6H.6.019 GOST 5915-70	2	Nut
	22	6T OST 37.001.115-75	2	Spring washer
	23	80-3724231-B	1	Cord
	24	3714.10	1	Cabin dome light 105x95

¹⁾ With roadtrain lamps

²⁾ Round lights

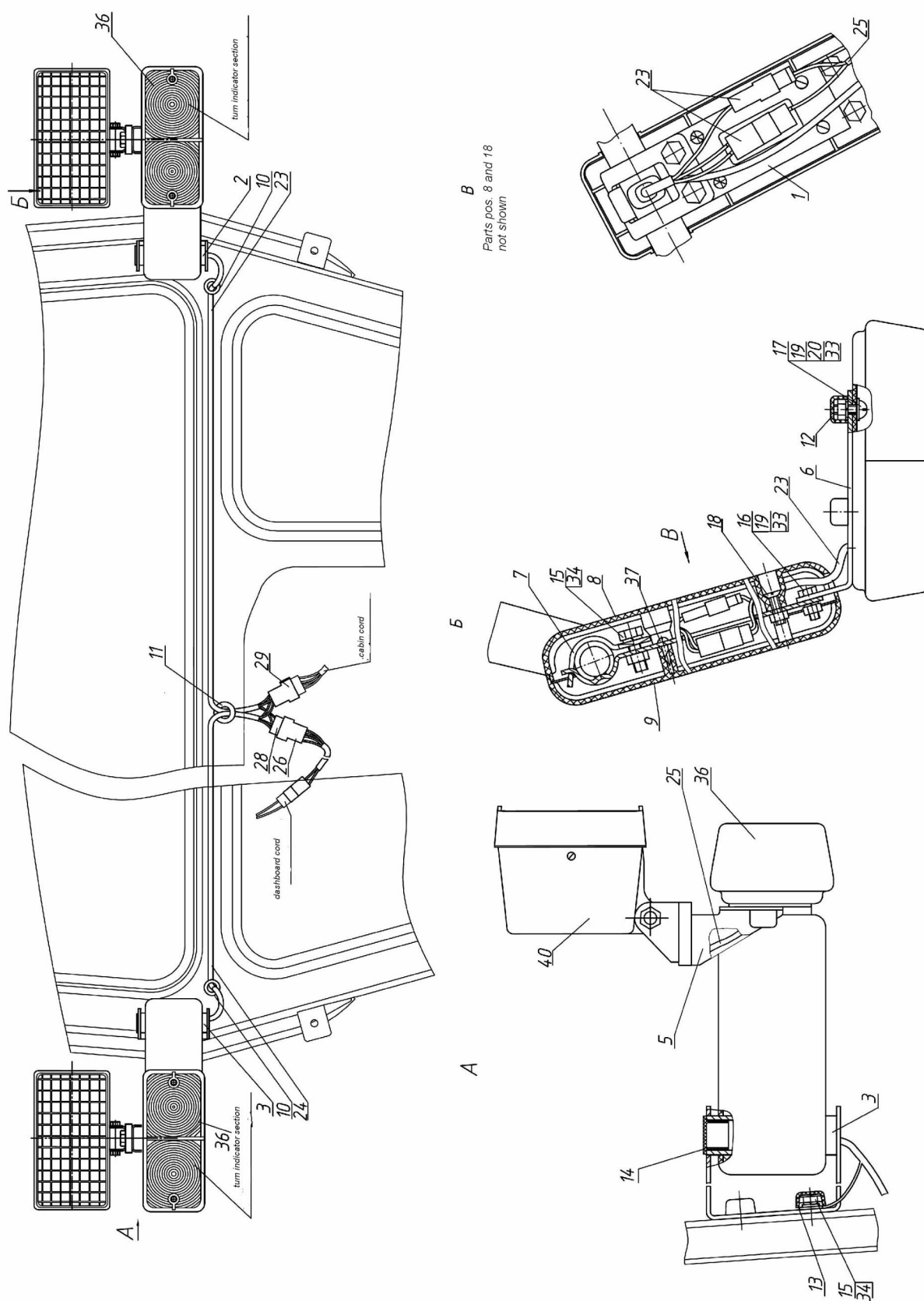


Fig.37.8 Front Lights Assembly

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Group 37. Electrical Equipment
Subgroup 3711. Front Lights Assembly

Fig.No	Pos.No	Assembly unit or part No		Q-ty	Name
37.8		826-3700025	1	-	Front lights assembly (with working lights)
		826-3700025-01	-	1	front lights assembly (without working lights)
	1	920-3712010	2	2	Bracket
	2	826-3712025	1	1	Bracket
	3	826-3712025-01	1	1	Bracket
	5	920-3711011	2	-	Bracket
	6	925-3712012	2	2	Bracket
	7	920-3712013	2	2	Joke
	8	920-3712021	2	2	Casing
	9	920-3712022	2	2	Casing
	10	70-3723042-01	2	2	Bushing
	11	70-3723042-02	1	1	Bushing
	12	A30.04.017	4	4	Cap
	13	A30.04.017-01	4	4	Cap
	14	36-4603079-B2	2	2	Blind plug
	15	M8-6gx20.88.35.019 GOST 7796-70	8	8	Bolt
	16	M6-6gx18.88.35.019 GOST 7798-70	4	4	Bolt
	17	B.M6-6gx25.58.019 GOST 17473-80	4	4	Screw
	18	B.M6-6gx20.58.019 GOST 17475-80	4	4	Screw
	19	M6-6H.6.019 GOST 5915-70	8	8	Nut
	20	C 6.01.019 GOST 11371-78	4	4	Washer
	23	920-3724131-A GOST 23544-84	1	1	Cord
	24	920-3724132-A GOST 23544-84	1	1	Cord
	25	923-3724142 GOST 23544-84	2	-	Cord
	26	92П-3724142 GOST 23544-84	1	-	Cord
	28	602604 OST 37.003.032-88	1	1	Female socket
	29	502604 OST 37.003.032-88	1	1	Male socket
	33	6T OST 37.001.115-75	8	8	Washer
	34	8T OST 37.001.115-75	8	8	Washer
	36	3712.10	2	2	Front light with side repeater
	37	4x10.019	8	8	Male screw
	40	8724.304/022	2	-	Working light

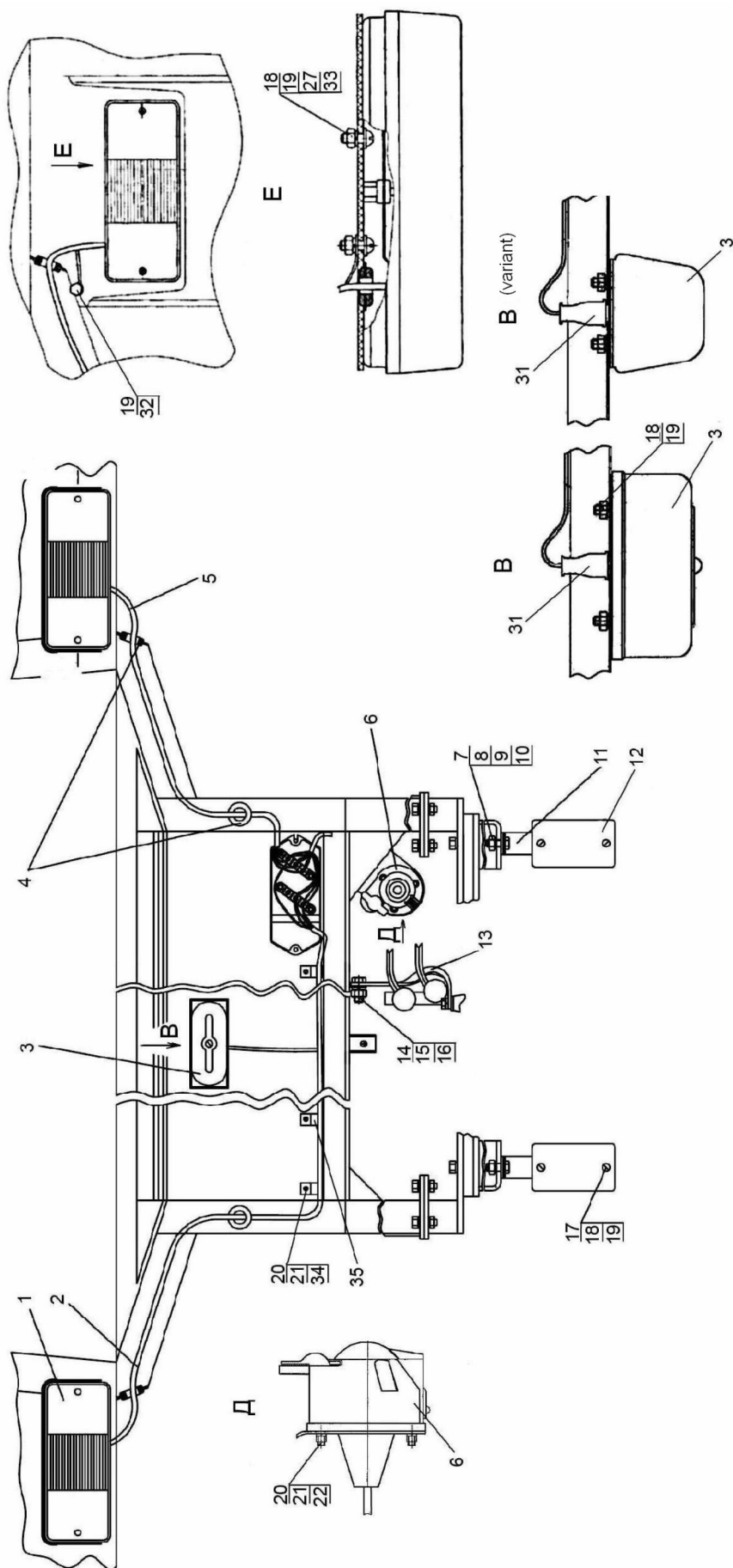


Fig.37.9. Rear Lights assembly

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Group 37. Electrical Equipment
Subgroup 3716. Rear Lights Assembly

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.9		80-3700060-B-05		Installaton of rear lights
	1	3716.10	2	Rear light
	2	920-3724163 GOST 23544-84	1	Cord
	3	3717.10	1	Number plate light
	4	70-3723042-02	4	Bushing
	5	920-3724162 GOST 23544-84	1	Cord
	6	3723.10	1	Trailer socket
	7	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	8	M10-6H.6.019 GOST 5915-70	2	Nut
	9	C 10.01.019 GOST 6958-78	2	Washer
	10	10 OT OST 37.001.115-75	2	Washer
	11	Φ50-3731011	2	Bracket
	12	3731.10	1	Reflector
	13	80-3724112	1	Jumper
	14	M12-6gx25.88.35.019 GOST 7796-70	1	Bolt
	15	M12-6H.6.019 GOST 5915-70	1	Nut
	16	12 OT OST 37.001.115-75	1	Washer
	17	B.M6-6gx18.58.019 GOST 17473-80	8	Screw
	18	M6-6H.6.019 GOST 5915-70	10	Nut
	19	6T OST 37.001.115-75	12	Washer
	20	M5-6H.6.019 GOST 5927-70	6	Nut
	21	5T OST 37.001.115-75	6	Washer
	22	B.M5-6gx35.58.019 GOST 17475-80	3	Screw
	27	C 6.01.019 GOST 11371-78	4	Washer
	31	70-3723035	1	Tip
	32	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	33	B.M6-6gx25.58.019 GOST 17473-80	4	Screw
	34	B.M5-6gx12.58.019 GOST 17473-80	3	Screw
	35	80-3723043	3	Joke

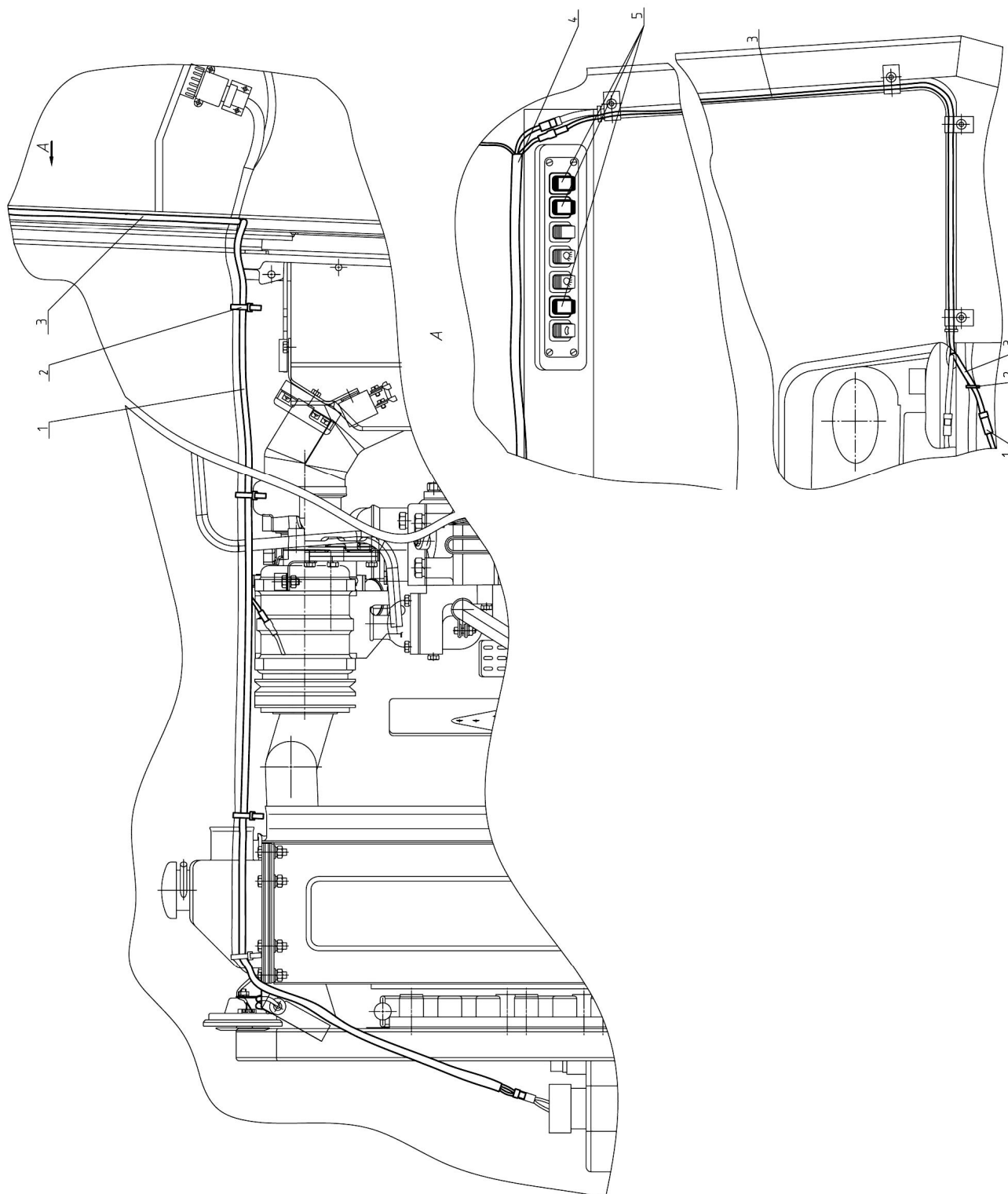


Fig.37.10 Electrical Equipment of Conditioner

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Group 37. Electrical Equipment
Subgroup 3730. Electrical Equipment of Conditioner

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.10		80-3700115		Electrical equipment of conditioner
	1	80-3724375	1	Cord
	2	80-3723045	4	Collar
	3	80-3724357	1	Wire
	4	80-3724355	1	Cord
	5	80-3801327	3	Blind plug

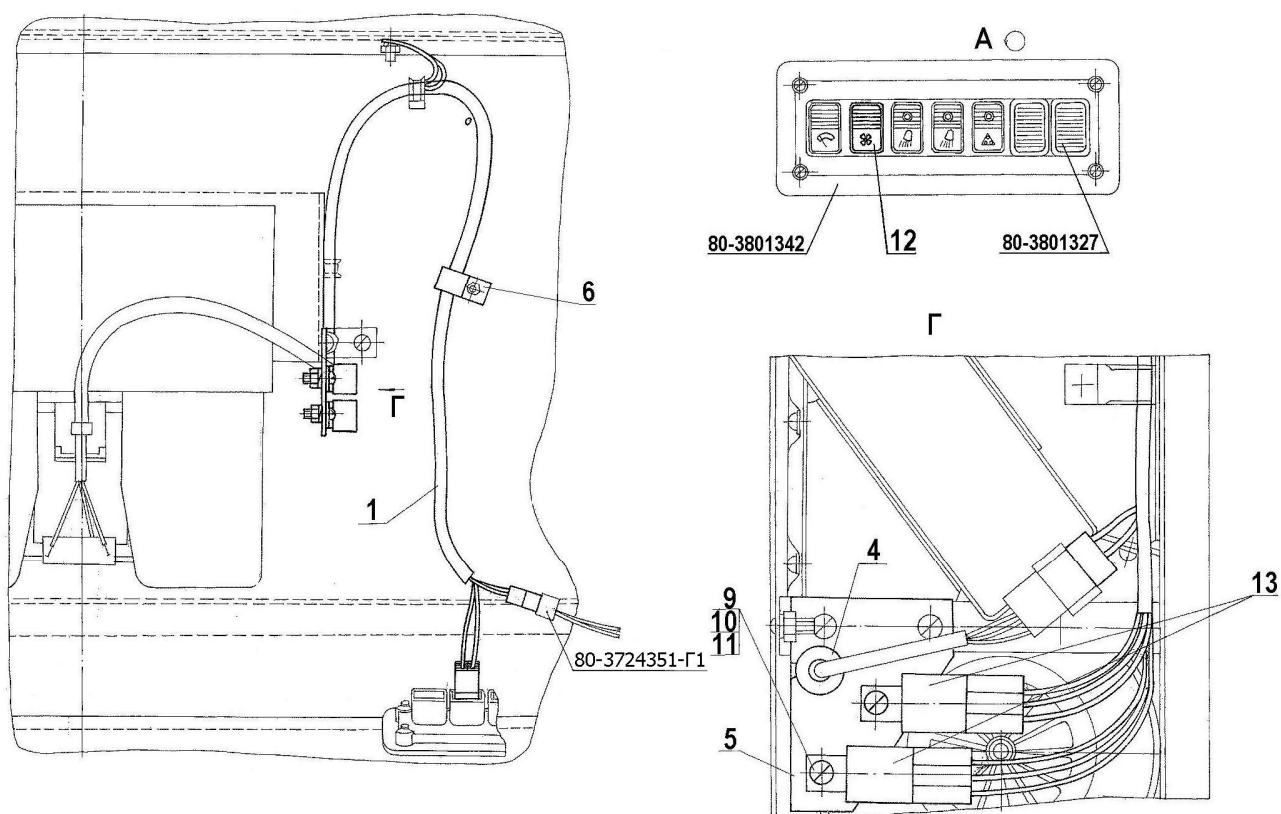


Fig.37.11. Electrical Equipment of Heater

Group 37. Electrical Equipment
Subgroup 3730. Electrical Equipment of Heater

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.11		80-3700090-Ж-01		Electrical equipment of heater
	1	80-3724354	1	Cord
	4	70-3723042-01	1	Bushing
	5	80-3747016	1	Bracket
	6	1321-8700029	1	Clamp
	9	B.M6-6gx12.58.019 GOST 17473-80	2	Screw
	10	M6-6H.6.019 GOST 5915-70	2	Nut
	11	6T OST 37.001.115-75	2	Washer
	12	3709.15	1	Fan switch
	13	902.3747-10 TU 37.003.1418-94	2	Relay

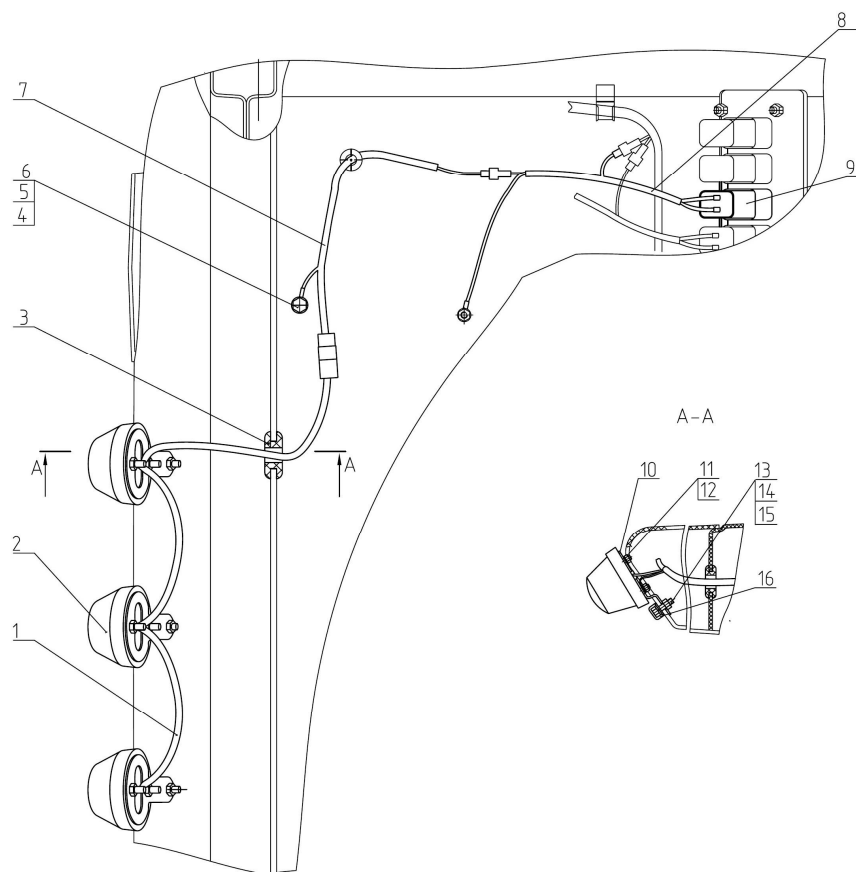


Fig.37.12. Roadtrain Lights Assembly

Group 37. Electrical Equipment
Subgroup 3738. Roadtrain Lights

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.12		920-3738010		Roadtrain lights assembly
	1	920-3724233	1	Cord
	2	3738.10	1	Roadtrain light
	3	70-3723042-01	1	Bushing
	4	M8-6gx20.88.35.019 GOST 7796-70	1	Bolt
	5	C 8.01.019 GOST 6958-78	1	Washer
	6	8T OST 37.001.115-75	1	Spring washer
	7	920-3724235	1	Cord
	8	80-3724231-B	1	Cord
	9	3710.40	1	Roadtrain indicator switch
	10	920-3738005	1	Bracket
	11	M5-6H.6.019 GOST 5927-70	6	Nut
	12	5T OST 37.001.115-75	6	Spring washer
	13	M6-6gx20.88.35.019 GOST 7798-70	3	Bolt
	14	C 6.01.019 GOST 11371-78	3	Washer
	15	6T OST 37.001.115-75	1	Spring washer
	16	A30.04.017	3	Cap

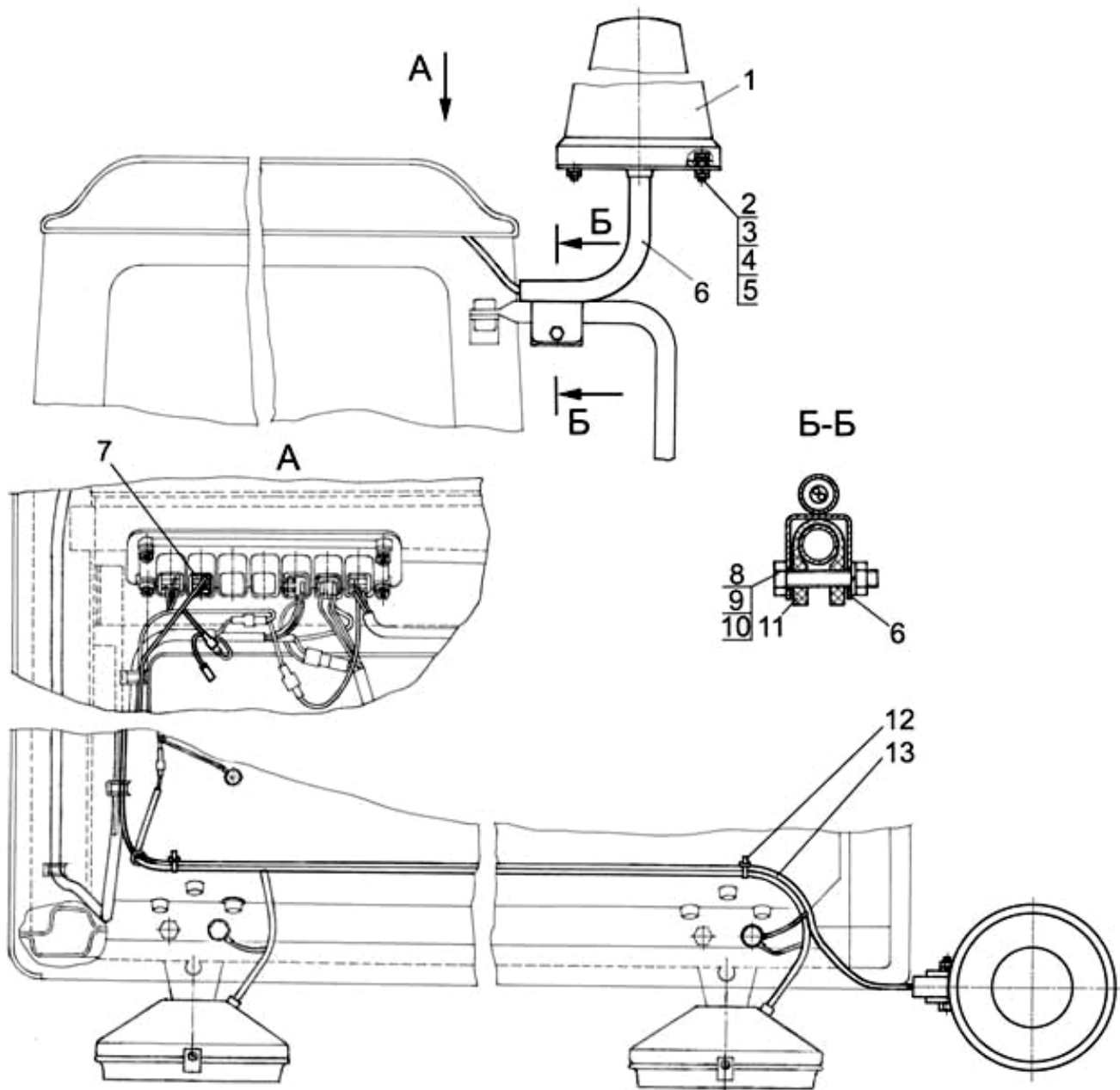


Fig.37.13. Beacon Assembly

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1220.1/1220.3/1220.4

**Group 37. Electrical Equipment
Subgroup 3738. Beacon Assembly**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.13		80-3738010		Beacon assembly
	1	3738.20	1	Beacon
	2	M6-6gx25.88.35.019 GOST 7798-70	3	Bolt
	3	M6-6H.6.019 GOST 5915-70	3	Nut
	4	C 6.01.019 GOST 11371-78	3	Washer
	5	6T OST 37.001.115-75	3	Washer
	6	320-3738005	1	Bracket
	7	3710.20	1	Beacon switch
	8	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	9	M8-6H.6.019 GOST 5915-70	1	Nut
	10	8T OST 37.001.115-75	1	Washer
	11	A30.04.051	1	Clamp
	12	80-3723045	2	Collar
	13	80-3724234	1	Cord

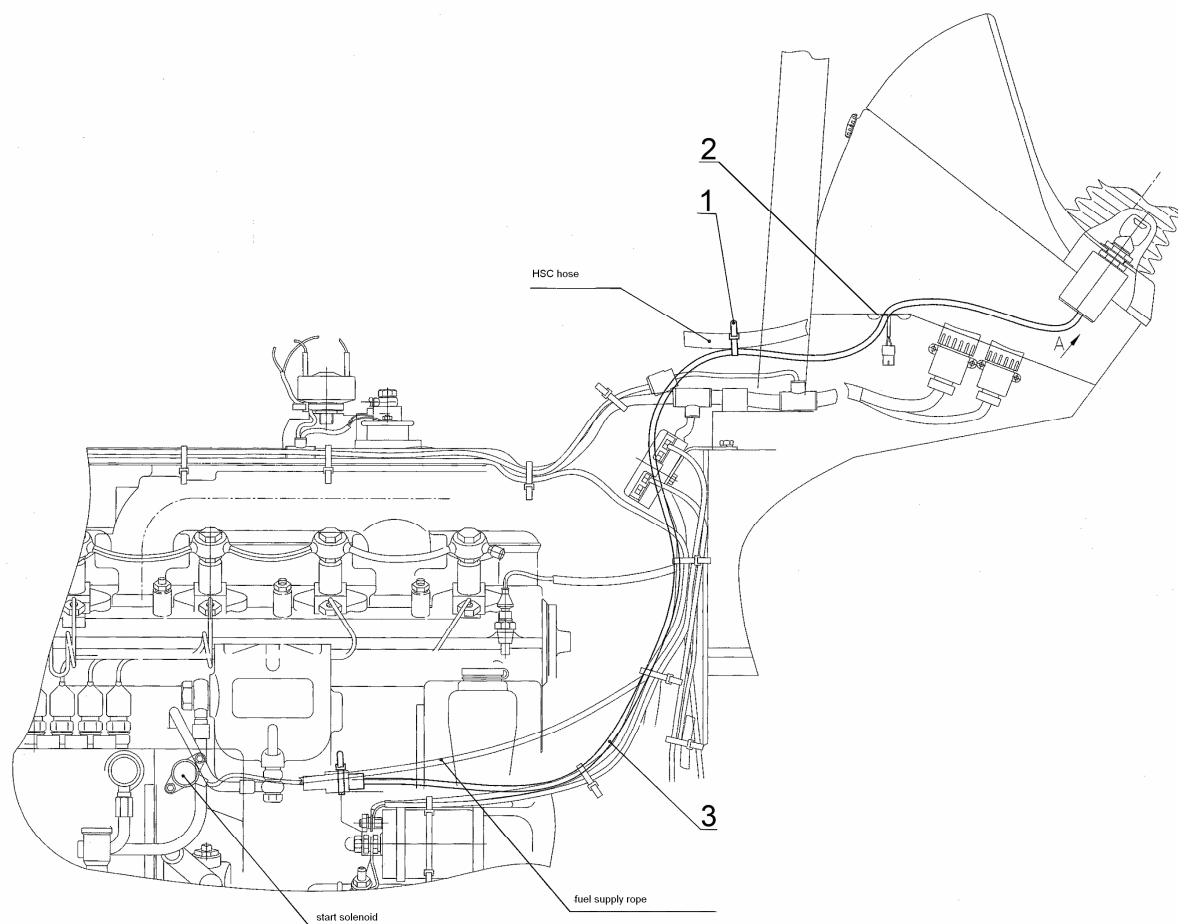


Fig. 37.14. Electrical Equipment of Starting Device

Group 37. Electrical Equipment
Subgroup 3741. Electrical Equipment of Starting Device

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
37.14		1220-3741010		Electrical equipment of starting device
	1	80-3723045	2	Collar
	2	80-3723049	1	Bushing
	3	1220-3724241 GOST 23544-84	1	Wire

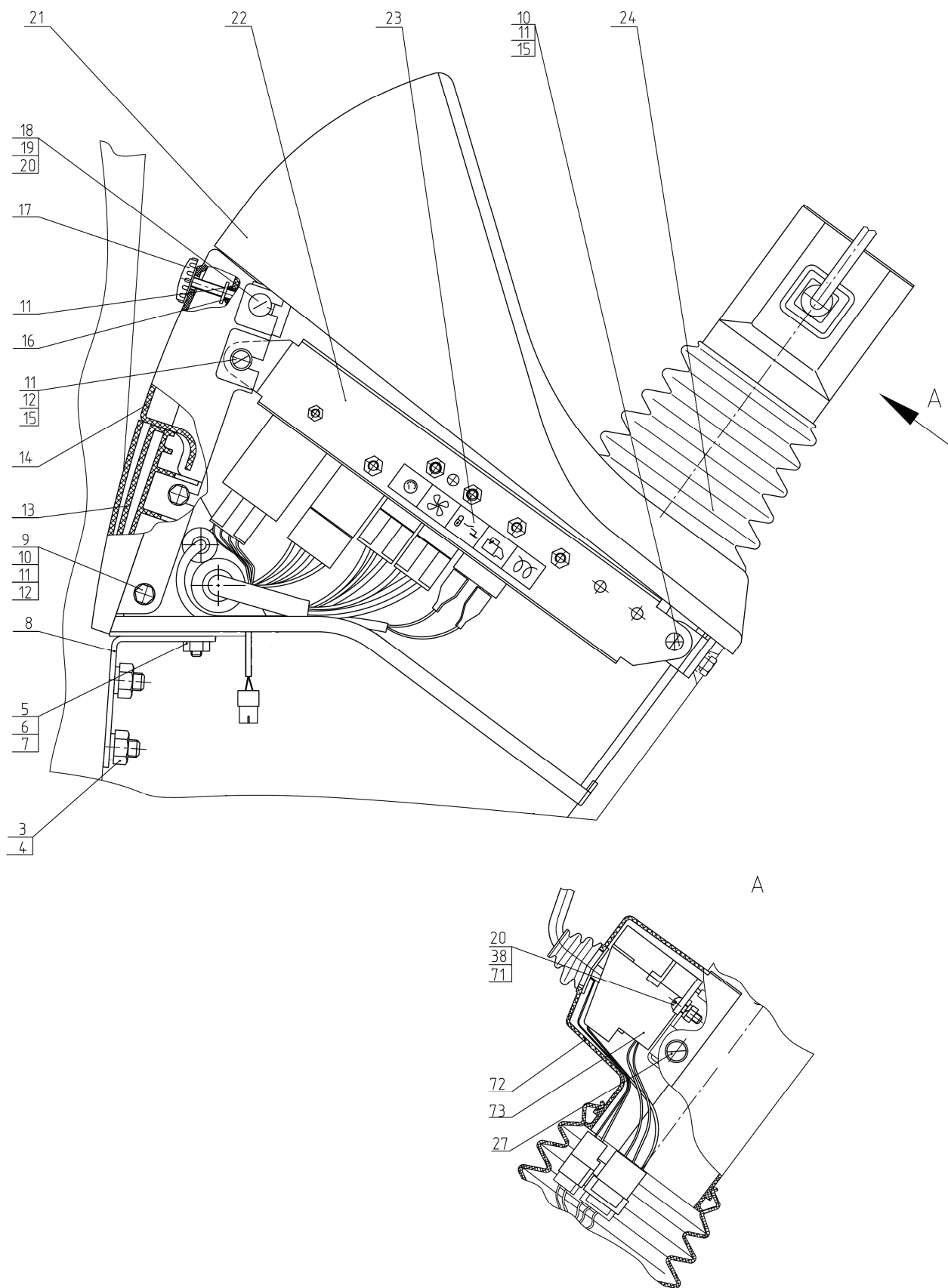


Fig.38.1. Dashboard. Dashboard Assembly.

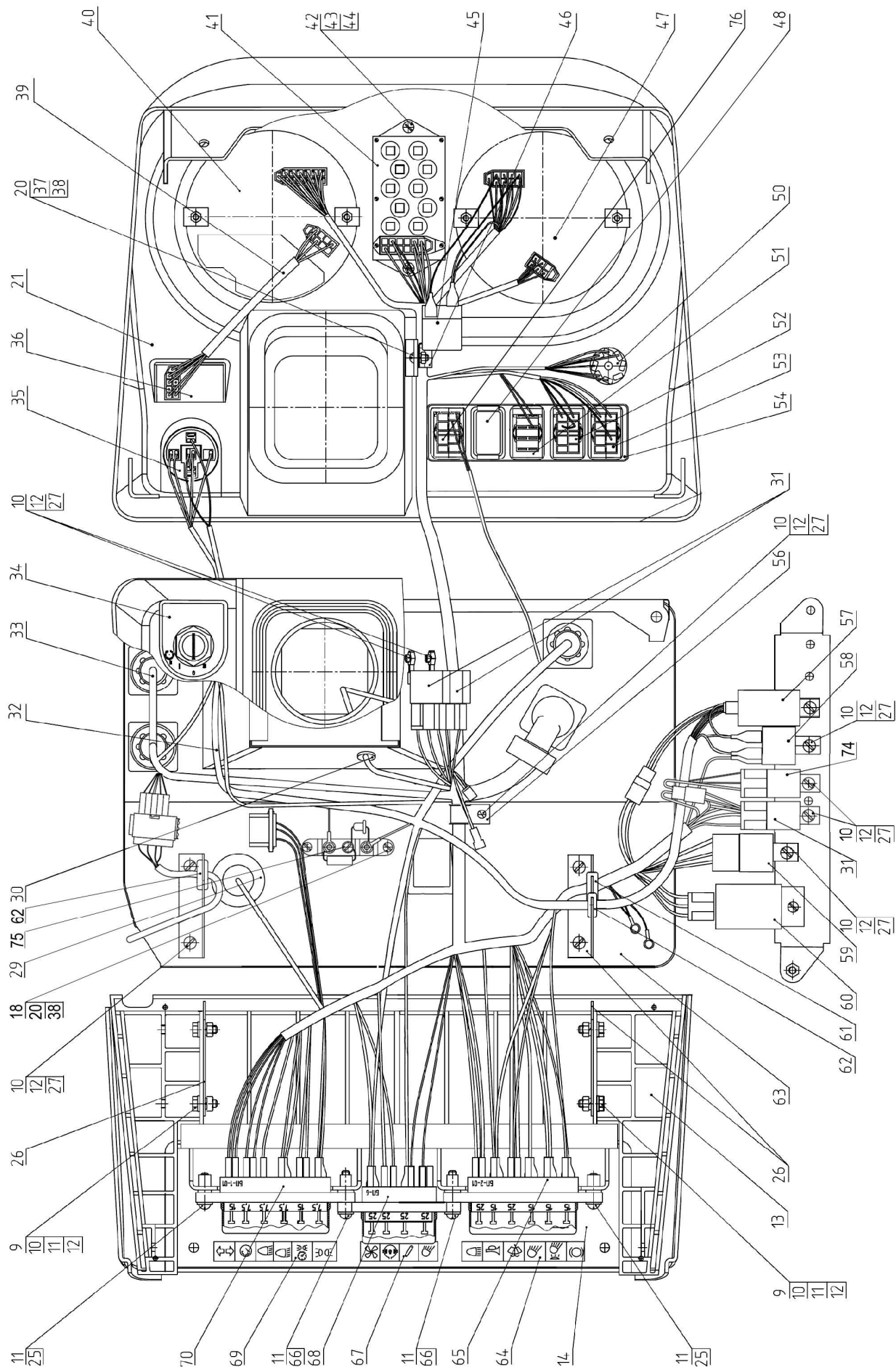


Fig.38.2. Dashboard (in Expanded Form)

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1220.1/1220.3/1220.4

**Group 38 Dashboard
Subgroup 3805. Dashboard**

Fig.No	Pos. No	Assembly unit or part No	Q-ty			Name
			1220.1 1220.3	1220.4 (with Mercer)	1220.4 (with Common Rail)	
38.1, 38.2		826-3805010-16	-	-	1	Dashboard
		826-3805010-18	1	-	-	
		826-3805010-20	-	1	-	
		826-3805005-02	1	1	1	Dashboard assembly
	3	M10-6H.6.019 GOST 5915-70	2	2	2	Nut
	4	10 OT OST 37.001.115-75	2	2	2	Washer
	5	M8-6gx16.88.35.019 GOST 7796-70	2	2	2	Bolt
	6	C.8.01.019 GOST 11371-78	2	2	2	Washer
	7	8T OST 37.001.115-75	2	2	2	Washer
	8	80-3805030	2	2	2	Bracket
	9	M6-6gx16.88.35.019 GOST 7796-70	4	4	4	Bolt
	10	M6-6H.6.019 GOST 5915-70	16	16	16	Nut
	11	C.6.01.019 GOST 11371-78	10	10	10	Washer
	12	6T OST 37.001.115-75	21	21	21	Washer
	13	826-3805045	1	1	1	Wall
	14	826-3805061	1	1	1	Cover
	15	B.M6-6gx16.58.019 GOST 17473-80	4	4	4	Screw
	16	006-010-25-1-4 GOST 18829-73/GOST 9833-73	2	2	2	Ring
	17	826-3805065	2	2	2	Screw
	18	B.M5-6gx20.58.019 GOST 17473-80	2	2	2	Screw
	19	C 5.01.019 GOST 6958-78	2	2	2	Washer
	20	5T OST 37.001.115-75	4	4	4	Washer
	21	826-3805021	1	1	1	Panel
	22	80-3805070	1	1	1	Panel
	23	826-3805025	1	1	1	Instruction plate
	24	80-3805012-B	1	1	1	Seal
	25	B.M6-6gx25.58.019 GOST 17473-80	2	2	2	Screw
	26	80-3805043	2	2	2	Bracket
	27	B.M6-6gx12.58.019 GOST 17473-80	13	13	13	Screw
	29	80-3723049	1	1	1	Bushing
	30	50-4607064	1	1	1	Bushing
	31	3747.50	3	3	4	Cut-in relay 30A
	32	826-3724530-B	-	1	1	Cord
		826-3724517	1	-	-	Cord
	33	826-3724395-Г	1	1	-	Cord
		826-3724395-B	-	-	1	Cord
	34	826-3805013	1	1	-	Instruction plate
		826-3805013-01	-	-	1	Instruction plate
	35	3710.15	1	1	1	Starter switch with start locking
	36	3813.40	1	1	1	Control panel
	37	B.M5-6gx12.58.019 GOST 17473-80	1	1	1	Screw
	38	M5-6H.6.019 GOST 5915-70	3	3	3	Nut
	39	826-3724260-A	1	1	1	Cord
	40	3813.30	1	1	-	Integrated indicator
		3813.35	-	-	1	Integrated indicator CAN
	41	3803.20	1	1	1	Control lights block
	42	B.M4-6gx12.58.019 GOST 17473-80	2	2	2	Screw
	43	M4-6H.6.019 GOST 5927-70	2	2	2	Nut

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1220.1/1220.3/1220.4

Group 38. Instruments
Subgroup 3805. Dashboard

Fig.No	Pos. No	Assembly unit or part No	Q-ty			Name
			1220.1 1220.3	1220.4 (with Mercer)	1220.4 with Common Rail)	
38.1, 38.2	44	4 OST 37.001.115-75	2	2	2	Washer
	45	3747.20	1	1	1	Alarm-relay
	46	80-3723043	1	1	1	Joke
	47	3801.40	1	1	-	Frequency instrument board КП-6
		3801.20	-	-	1	Instrument board КП-6 CAN
	48	80-3801327	1	1	1	Blind plug
	50	3710.10	1	1	1	Hazard lights switch
	51	3710.35	1	1	1	Windscreen washer switch
	52	3709.20	1	1	1	Light switch
	53	3710.30	1	1	1	Working lights switch
	54	826-3710011	1	1	1	Jack for disconnect switches
	56	80-3723038	1	1	1	Joke
	57	3741.10	1	1	1	Glow plug block
	58	3747.25	1	1	1	Starter relay
	59	3747.30	1	1	1	Instrument power relay
	60	3747.10	1	1	1	Turn indicator flasher
	61	70-3723042-02	1	1	1	Bushing
	62	70-3723042-01	2	2	2	Bushing
	63	80-3805050-Б1-03	1	1	1	Base
	64	80-3805027-B	1	1	1	Instruction plate
	65	3722.15	1	1	1	Fuse block
	66	B.M6-6gx40.58.019 GOST 17473-80	2	2	2	Screw
	67	80-3805037-Г	1	1	1	Instruction plate
	68	3722.35	1	1	1	Fuse block
	69	80-3805026	1	1	1	Instruction plate
	70	3722.10	1	1	1	Fuse block
	71	B.M5-6gx16.58.019 GOST 17473-80	2	2	2	Screw
	72	80-3709023 or 80-3709023-B	1	1	1	Casing
	73	3709.145 or 3709.210	1	1	1	Underwheel switch
	74	3747.40	-	1	1	Cut-in relay 20A
	75	3741.30	-	1	1	Alternator additional resistor
	76	3710.55	1	1	1	Battery disconnect switch

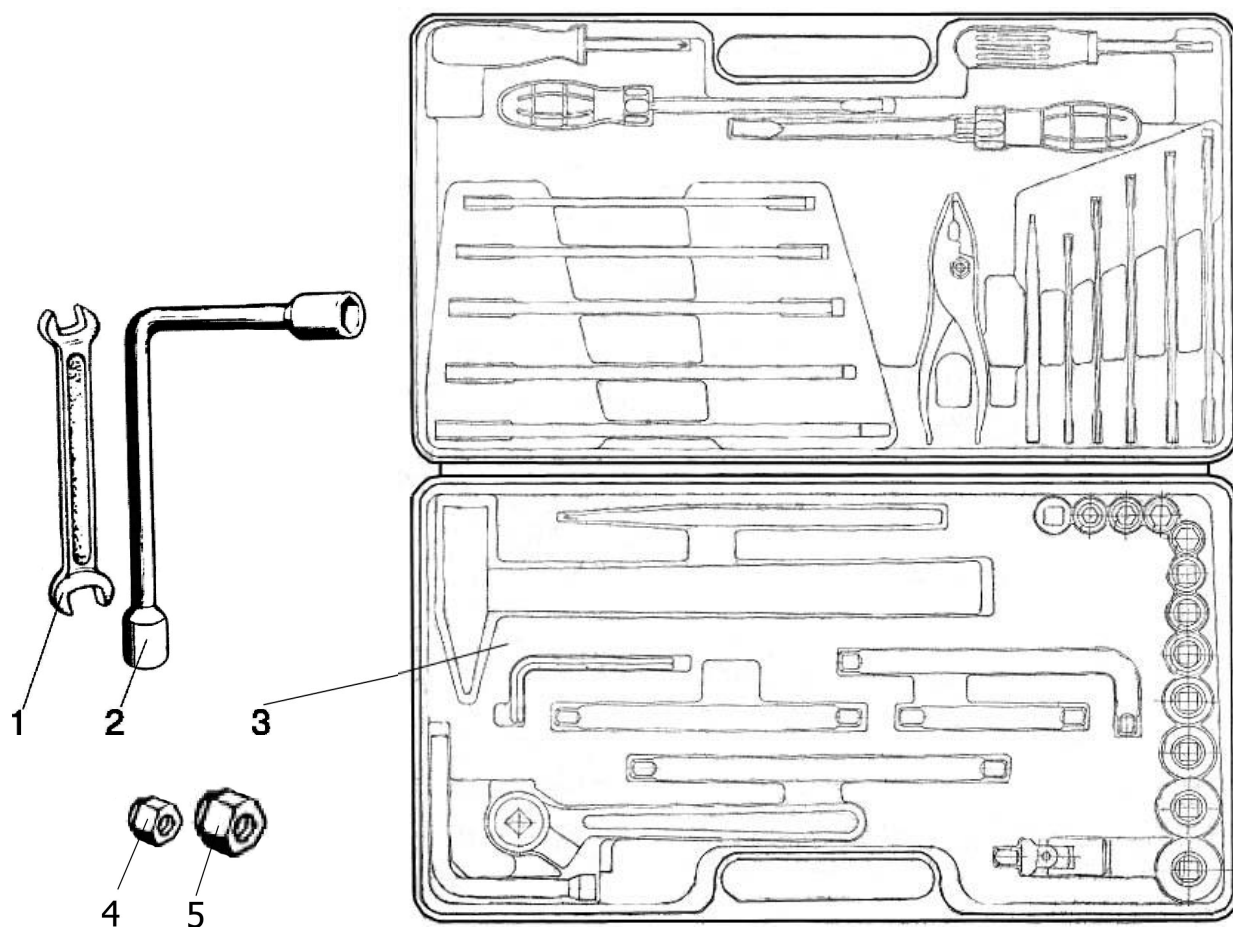


Fig.39.1. Operator Tool

Group 39. Tools and Accessories
Subgroup 3901. Operator Tool

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
39.1	1	70-3901038	1	Wrench 41x46
	2	70-3901027	1	Socket wrench S=27x32
	3	3900.0001 *	1	Tool set
	4	40-3103017-01	2	Wheel disk mounting nut
	5	36-3104019	2	Nut

* Against order

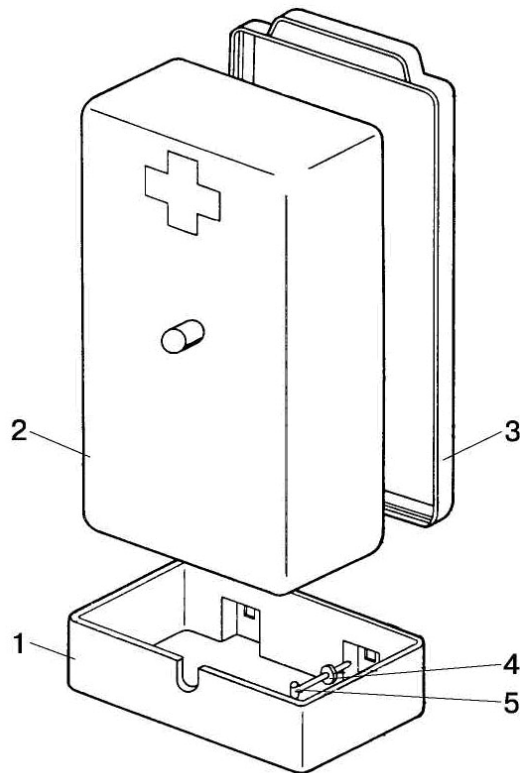


Fig.39.2. First Aid Kit

Group 39. Tools and Accessories
Subgroup 3912. First Aid Kit (against Order)

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

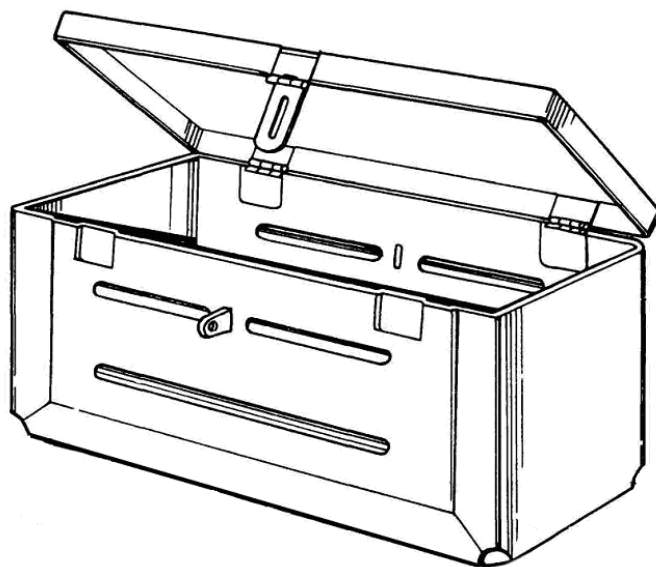


Fig.39.3. Tool Box 70-3919110

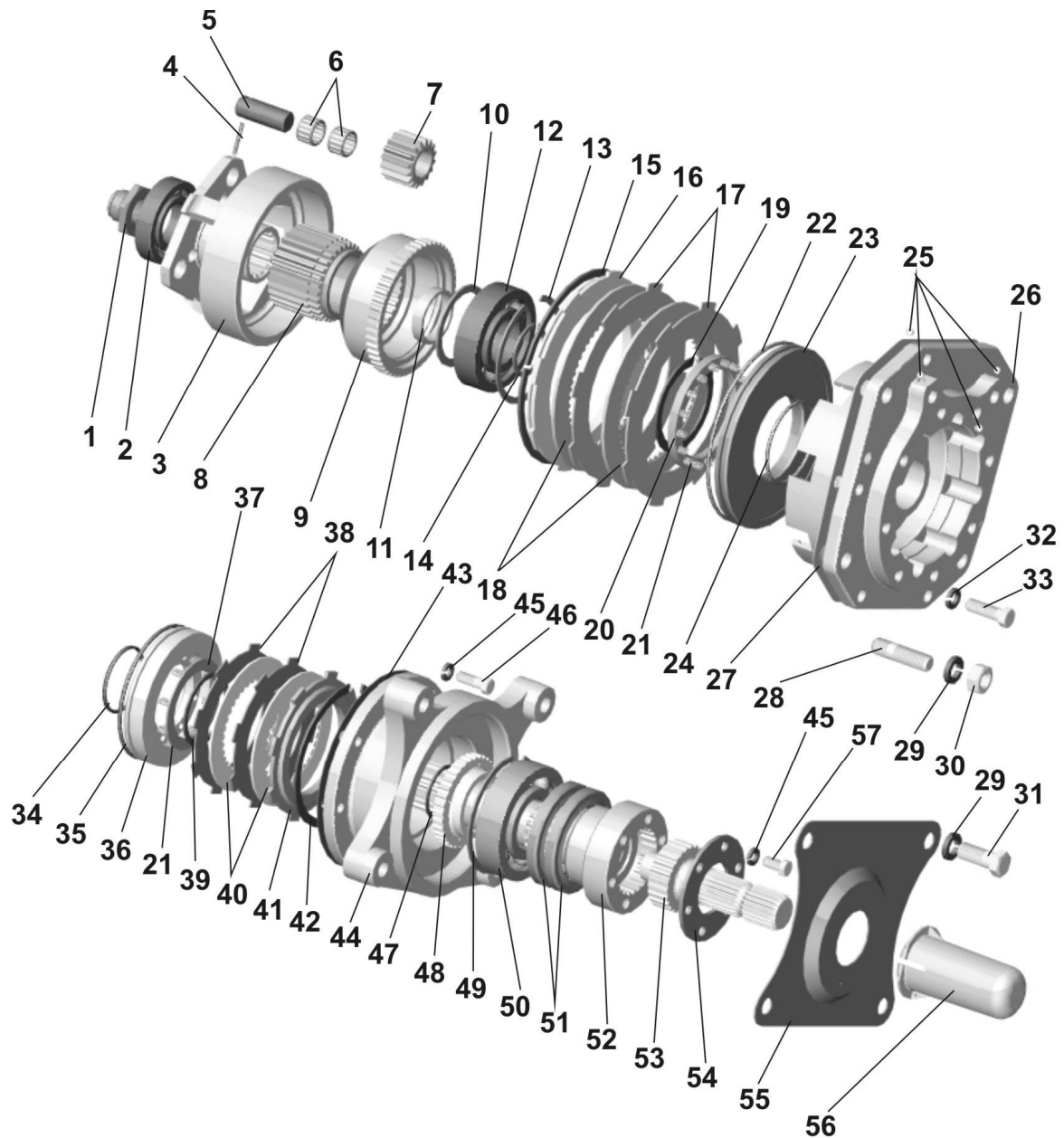


Fig.42.1. Rear PTO Shaft

**Group 42. Power Take-Off
Subgroup 4202. Rear PTO Shaft**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
42.1		1025-4202010	1	Rear PTO shaft
		1025-4202020	1	Reduction gear unit (1-26, 32-44, 46-52)
	1	70-4202083-A	1	Nut
	2	208A GOST 8338-75	1	Bearing
	3	1025-4202065	1	Carrier
	4	70-4202431	3	Pin
	5	70-4202026	3	Satellite gear axis
	6	SKF K20x26x17 or	6	Bearing
		KK 20x26x34 E	3	Bearing
	7	70-4202024	3	Satellite gear
	8	1025-4202036	1	Sun gear
	9	1025-4202037	1	Coupling
	10	2C65 GOST 13940-86	1	Ring
	11	1025-4202003	1	Bushing
	12	309K GOST 8338-75	1	Bearing
	13	2C100 GOST 13941-86	1	Ring
	14	C45 GOST 13940-86	1	Ring
	15	80-1701392-A	1	Ring
	16	80-1701379	1	Thrust disk
	17	80-1701384	2	Drive disk
	18	80-1701375	2	Driven disk ДМ 05
	19	C80 GOST 13940-86	1	Ring
	20	77-1601373	1	Spring mount
	21	77-1601067	16	Spring
	22	165-170-36-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	23	1025-4202009	1	Piston
	24	075-080-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	25	7,144-60 GOST 3722-81	4	Ball
	26	1025-4202006	1	Housing
	27	1025-4202001	1	Gasket
	28	M16 3p/6gx45.66.019 GOST 22034-76	4	Stud
	29	16 OT OST 37.001.115-75	8	Washer
	30	M16-6H.6.019 GOST 5915-70	4	Nut
	31	M16-6gx40.88.35.019 GOST 7796-70	4	Bolt
	32	12 OT OST 37.001.115-75	5	Washer
	33	M12-6gx40.88.35.019 GOST 7796-70	5	Bolt
	34	059-065-36-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	35	125-130-36-2-2 GOST 18829-73/GOST 9833-73	1	Ring
	36	1025-4202007	1	Piston
	37	1025-4202008	5	Washer
	38	86-1802032	2	Driven disk
	39	2C65 GOST 13940-86	1	Ring
	40	86-1802035-A	2	Drive disk
	41	86-1802034	1	Thrust disk
	42	C135 GOST 13941-86	1	Ring
	43	1025-4202004	1	Gasket
	44	1025-4202011	1	Cover
	45	10 OT OST 37.001.115-75	14	Washer
	46	M10-6gx30.88.35.019 GOST 7796-70	8	Bolt
	47	2C50 GOST 13940-86	1	Ring

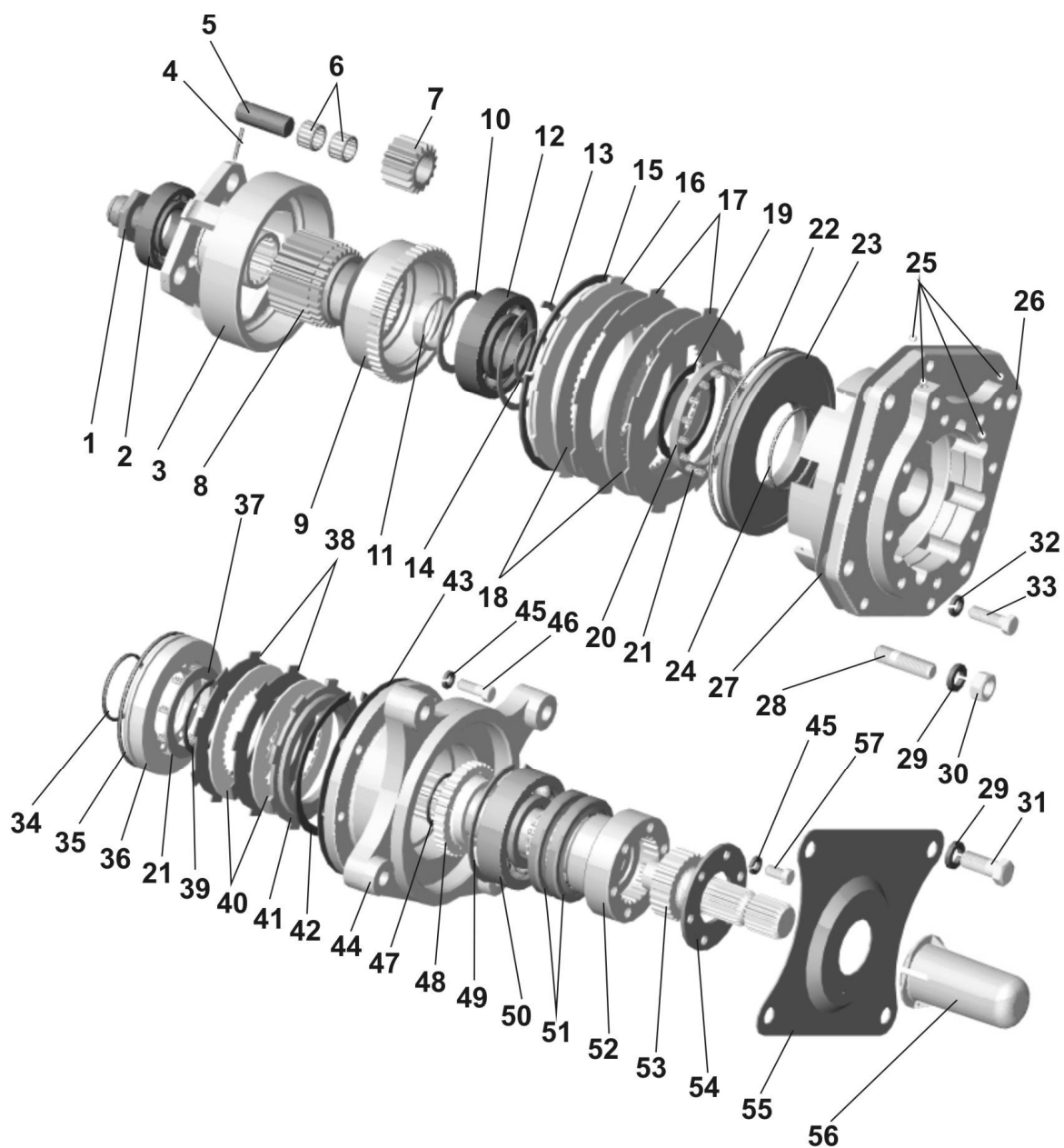


Fig.42.1. Rear PTO Shaft

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1220.1/1220.3/1220.4

**Group 42. Power Take-Off
Subgroup 4202. Rear PTO Shaft**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
42.1	48	1025-4202013	1	Coupling
	49	2C110 GOST 13941-86	1	Ring
	50	60310A GOST 7242-81	1	Bearing
	51	2.2-75x100-1 GOST 8752-79/OST 3805146-78	2	Collar
	52	1025-4202012	1	Shaft
	53	80-4202019-B	1	Shaft end extension (8 splines)
		80-4202019-B-01 ¹⁾	1	Shaft end extension (6 splines)
		80-4202019-B-02 ¹⁾	1	Shaft end extension (21 splines)
	54	80-4202081-A	1	Plate
	55	1321-4212180	1	Plate
	56	50-4202065-A-01	1	Cap
	57	M10-6gx20.88.35.019 GOST 7796-70	6	Bolt

¹⁾ Against order

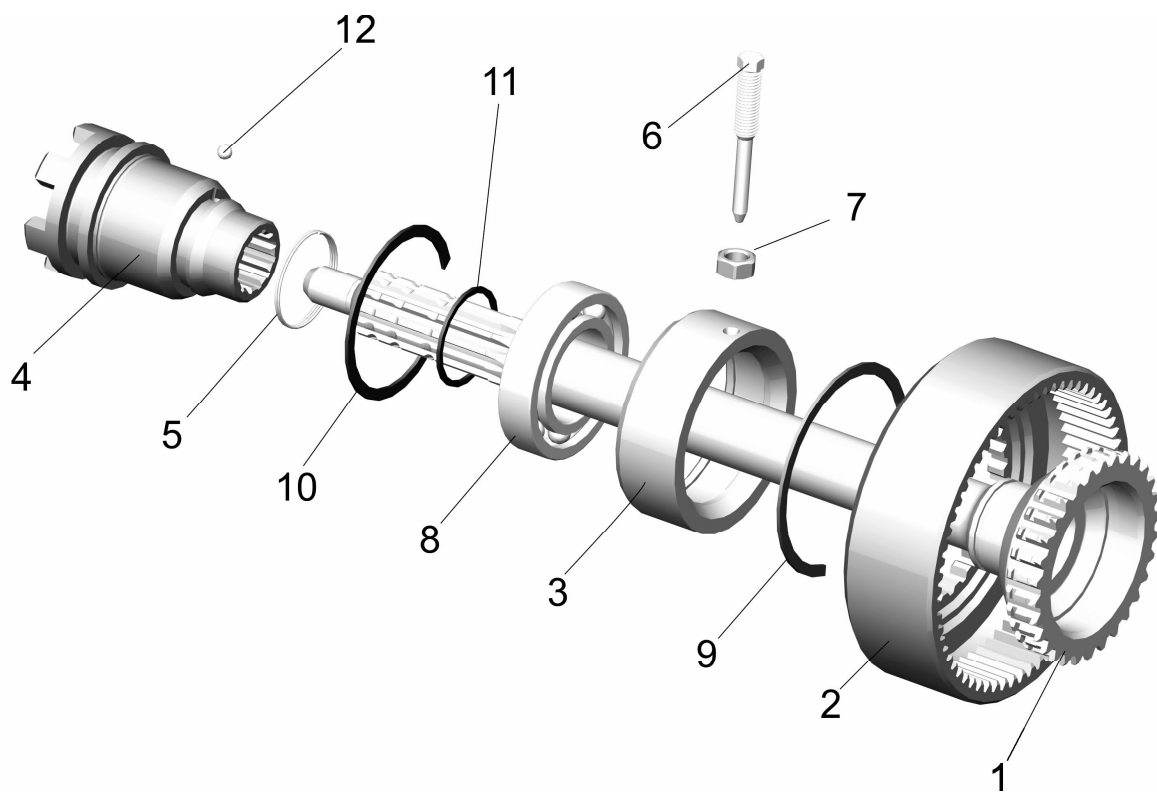


Fig.42.2. Crown Gear

**Group 42. Power Take-Off
Subgroup 4202. Rear PTO Shaft**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
42.2		70-4202030-A	1	Crown gear
	1	70-4202044-B	1	Shaft
	2	70-4202043	1	Crown gear
	3	50-4202066-A	1	Cage
	4	50-4202046-B	1	Shift collar
	5	A61.03.002	1	Ring
	6	50-4202068	1	Screw
	7	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	8	210 AYШ1 GOST8338-75	1	Bearing
	9	2C110 GOST 13941-86	1	Ring
	10	2C90 GOST 13941-86	1	Ring
	11	2C50 GOST 13940-86	1	Ring
	12	7,938-100 GOST 3722-81	1	Ball

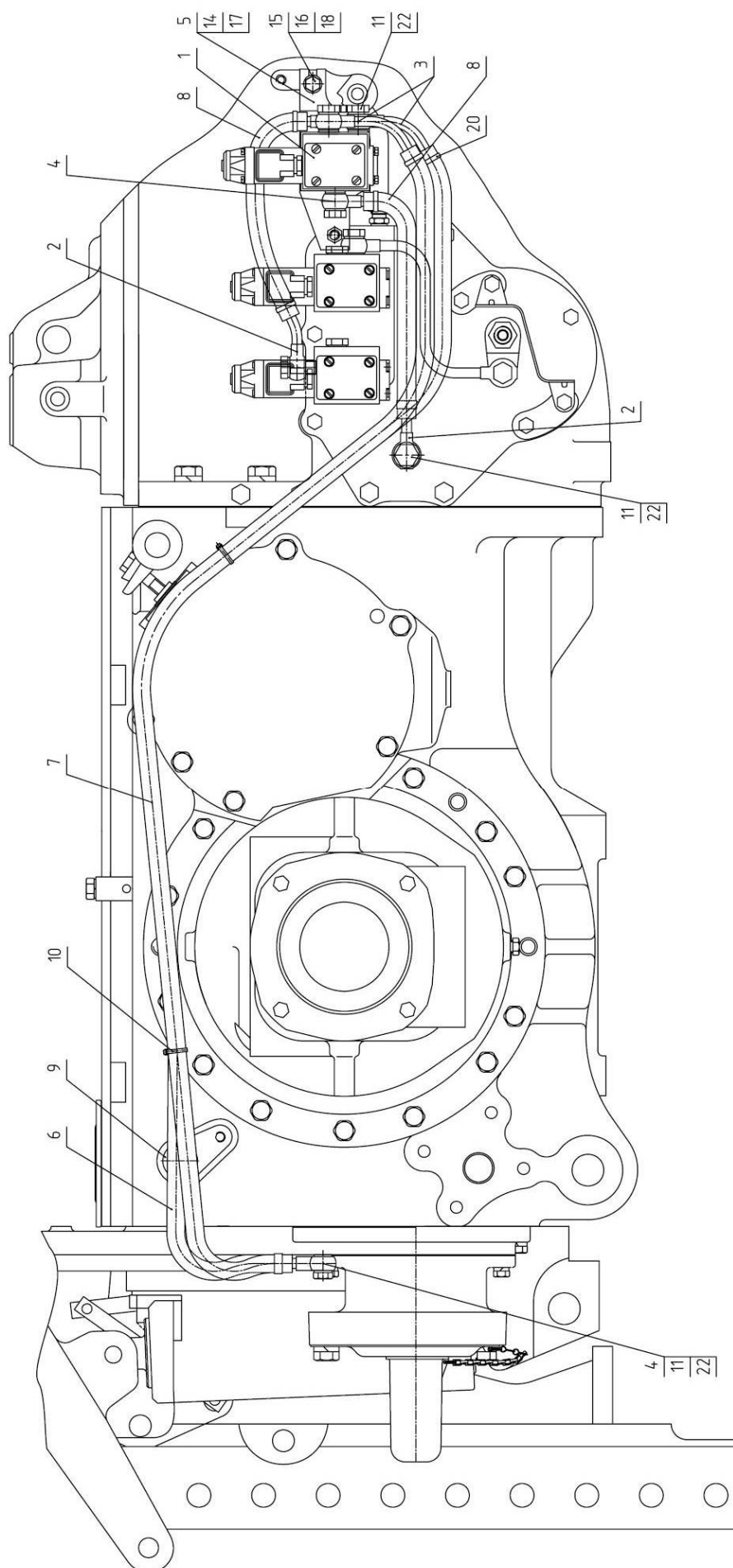


Fig.42.3. Control of Rear PTO Shaft

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1220.1/1220.3/1220.4

**Group 42. Power Take-Off
Subgroup 4216. Control of Rear PTO Shaft**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
42.3		1220-4216005	1	Control of rear PTO shaft
	1	1221-4216180	1	Plate with distributor
	2	1221-4216035	2	Tip
	3	85-4216130	2	Oil pipeline
	4	Φ80-3407720	4	Oil pipeline
	5	1221-4216253	1	Bracket
	6	1221-4216112	1	Hose 10x18,5-1,6 GOST10632-76 L=(1800±10) mm
	7	1221-4216111	1	Hose10x18,5-1,6 GOST10632-76 L=(1700±10) mm
	8	1221-4216016	2	Hose 10x18,5-1,6 GOST10632-76 L=(300±10) mm
	9	82-2301074	1	Plug
	10	80-3723045-01	2	Collar
	11	Д18-051	8	Bolt
	14	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt
	15	M10-6gx20.88.35.019 GOST 7796-70	1	Bolt
	16	C 10.01.019 GOST 11371-78	1	Washer
	17	8T OST 37.001.115-75	2	Washer
	18	10 OT OST 37.001.115-75	1	Washer
	20	12-22	8	Clamp with worm thread
	22	PM14	16	Washer

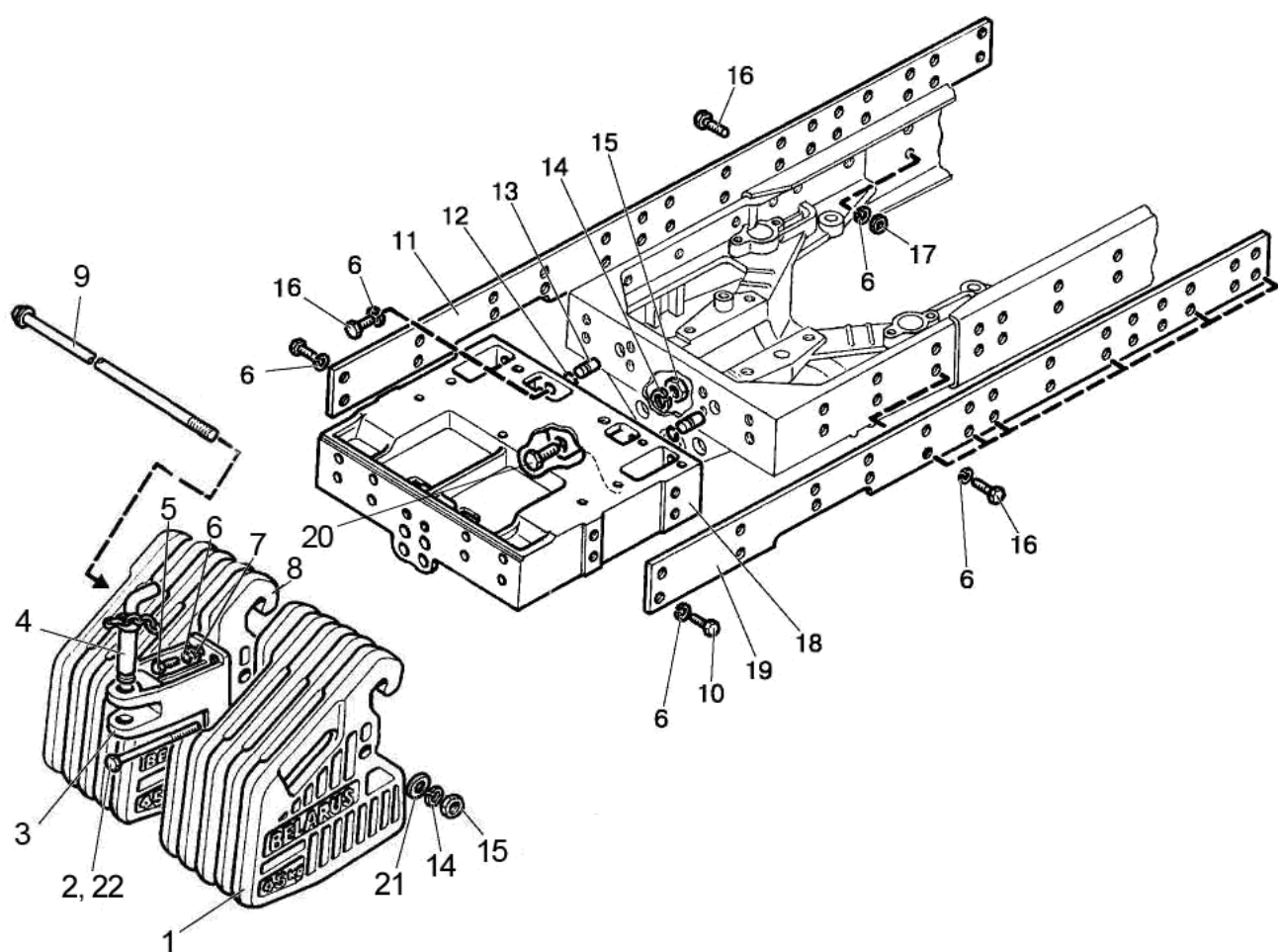


Fig.42.4. Ballast

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1220.1/1220.3/1220.4

Subgroup 4235. Ballast

Fig.No	Pos.No	Designation	Q-ty	Name
42.4		923-4235010-07 ¹⁾		Ballast
		923-4235010-11 ²⁾		
	1	80-4235011	6 ¹⁾ 8 ²⁾	Weight
	2	1025-4235012	2	Bolt
	3	85-4235025-B	1	Ear
	4	70-4235030	1	Kingpin
	5	M16-6gx45.88.35.019 GOST 7796-70	2	Bolt
	6	16 OT OST 37.001.115-75	50	Washer
	7	C 16.01.019 GOST 11371-78	2	Washer
	8	1521-4235011-A	2	Weight
	9	1025-4235015-02 ¹⁾	1	String
		1025-4235015-01 ²⁾		
	10	M16-6gx32.88.35.019 GOST 7796-70	16	Bolt
	11	822-4235028	1	Strip
	12	54.38.619	2	Lock ring
	13	50-4605027	2	Pin
	14	20 OT OST 37.001.115-75	3	Washer
	15	M20-6H.6.019 GOST 5915-70	3	Nut
	16	M16-6gx40.88.35.019 GOST 7796-70	32	Bolt
	17	M16-6H.6.019 GOST 5915-70	4	Nut
	18	923-4235016	1	Bracket
	19	822-4235028-01	1	Strip
	20	70-4605036-03	2	Bolt
	21	40-3502084	1	Washer
	22	M18-6H.6.019 GOST 5915-70	4	Nut

¹⁾ 8X45 kg

²⁾ 10x45 kg

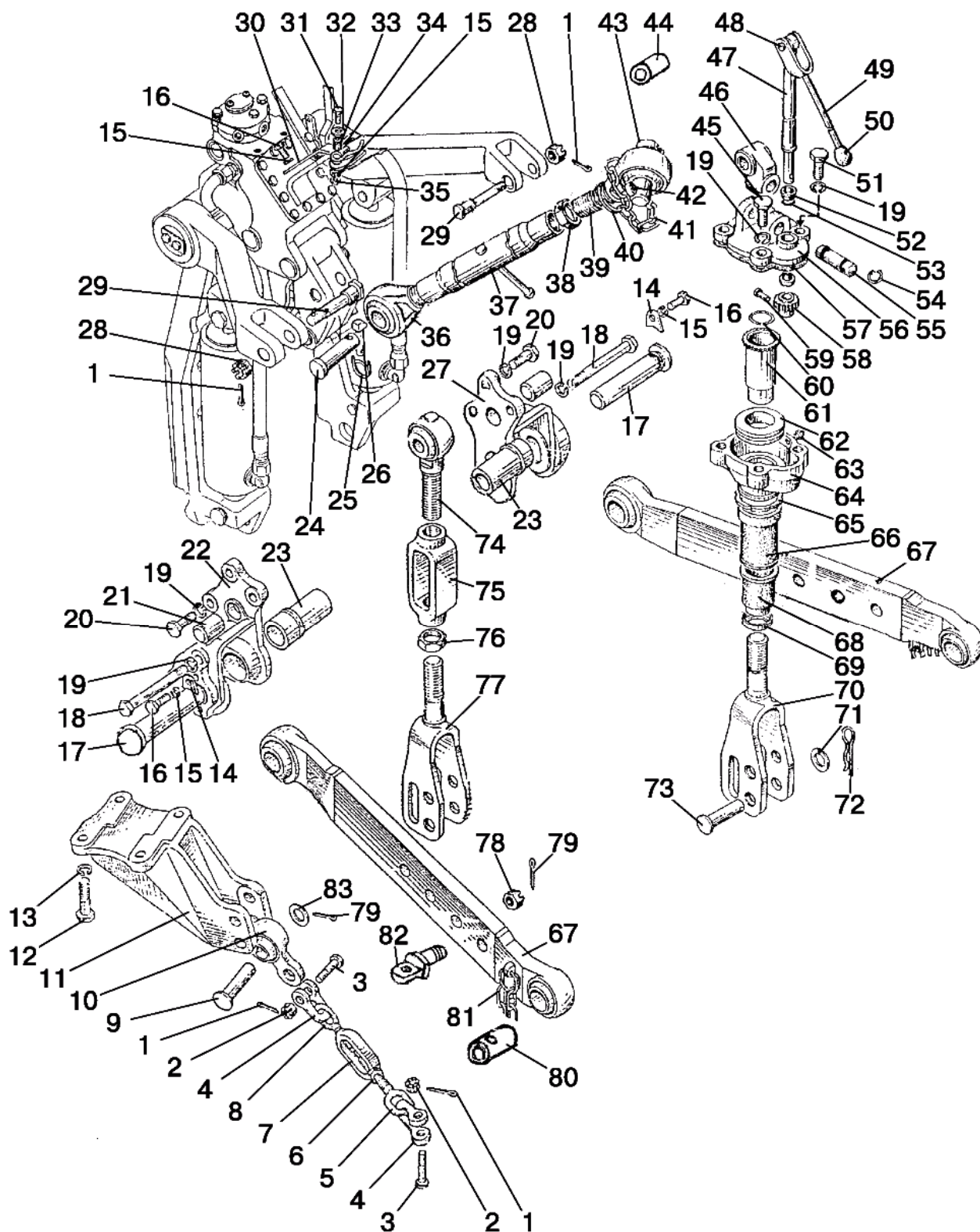


Fig. 46.1. Lift Linkage with Hydraulic Lift

Group 46. Remote-cylinder Hydraulic System
Subgroup 4605. Lift Linkage with Hydraulic Lift

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.1		K1220-4605510	1	Rear lift linkage (1-83)
		1220-4605120	2	Buckle (1-8, 10)
		1223-4605530-04 or 1220-4605530-04 or 1220-4605530-06	2	Rod (67, 78, 79, 81, 82)
		1220-4605590 or A61.03.000 or A61.03.000-01	1	Upper rod (36-43)
		1220-4605610-01	2/1/0	Arm (19, 45-66, 68-70)
		1220-4605670	1	Bracket (16, 30-35)
		1220-4605695	1	Screw (39-43)
		1220-4605612-01	0/1/2	Arm (74-77)
	1	4x36.019 GOST 397-79	6	Forelock
	2	M16-6H.04.019 GOST 5919-73	4	Nut
	3	1220-4605104	4	Bolt
	4	1220-4605107	4	Clip
	5	1220-4605102	2	Screw
	6	M24-6H.04.019 GOST 5916-70	2	Nut
	7	1220-4605103	2	Buckle
	8	1220-4605102-01	2	Screw (LH)
	9	Φ50-4605084	2	Pin
	10	1220-4605105	2	Clip
	11	1220-4605091-B1	1	Right bracket
		1220-4605091-B1-01	1	Left bracket
	12	680-2707024	8	Bolt
	13	20 OT OST 37.001.115-75	8	Washer
	14	1220-4605504	2	Plate
	15	12 OT OST 37.001.115-75	5	Washer
	16	M12-6gx25.88.35.019 GOST 7796-70	4	Bolt
	17	1220-4605503	2	Pin
	18	80-2800016-01	2	Bolt
	19	16 OT OST 37.001.115-75	16	Washer
	20	1220-4605506	6	Bolt
	21	1220-4605507	2	Pin
	22	1220-4605501-01	1	Bracket
	23	1220-4605502	2	Bushing
	24	A61.10.001-02	1	Pin
	25	A61.05.004	1	Ring
	26	A61.05.005	1	Chock
	27	1220-4605501	1	Bracket
	28	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	29	142-4605076 or 921-4605076	2	Pin
	30	1220-4605675	1	Bracket
	31	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	32	C 12.01.019 GOST 11371-78	1	Washer
	33	50-4605069	1	Bushing
	34	A61.07.002	1	Spring
	35	M12-6H.04.019 GOST 5916-70	1	Nut
	36	A61.02.100-03	1	Screw
	37	A61.03.100	1	Pipe
	38	A61.02.003	1	Lock nut
	39	1220-4605570	1	Screw with hinge Ø 32 (3 category)
		A61.02.100-04	1	Screw with hinge Ø 22,5
		A61.02.100-05	1	Screw with hinge Ø 25,7 (2 category)
	40	A61.03.002	2	Ring

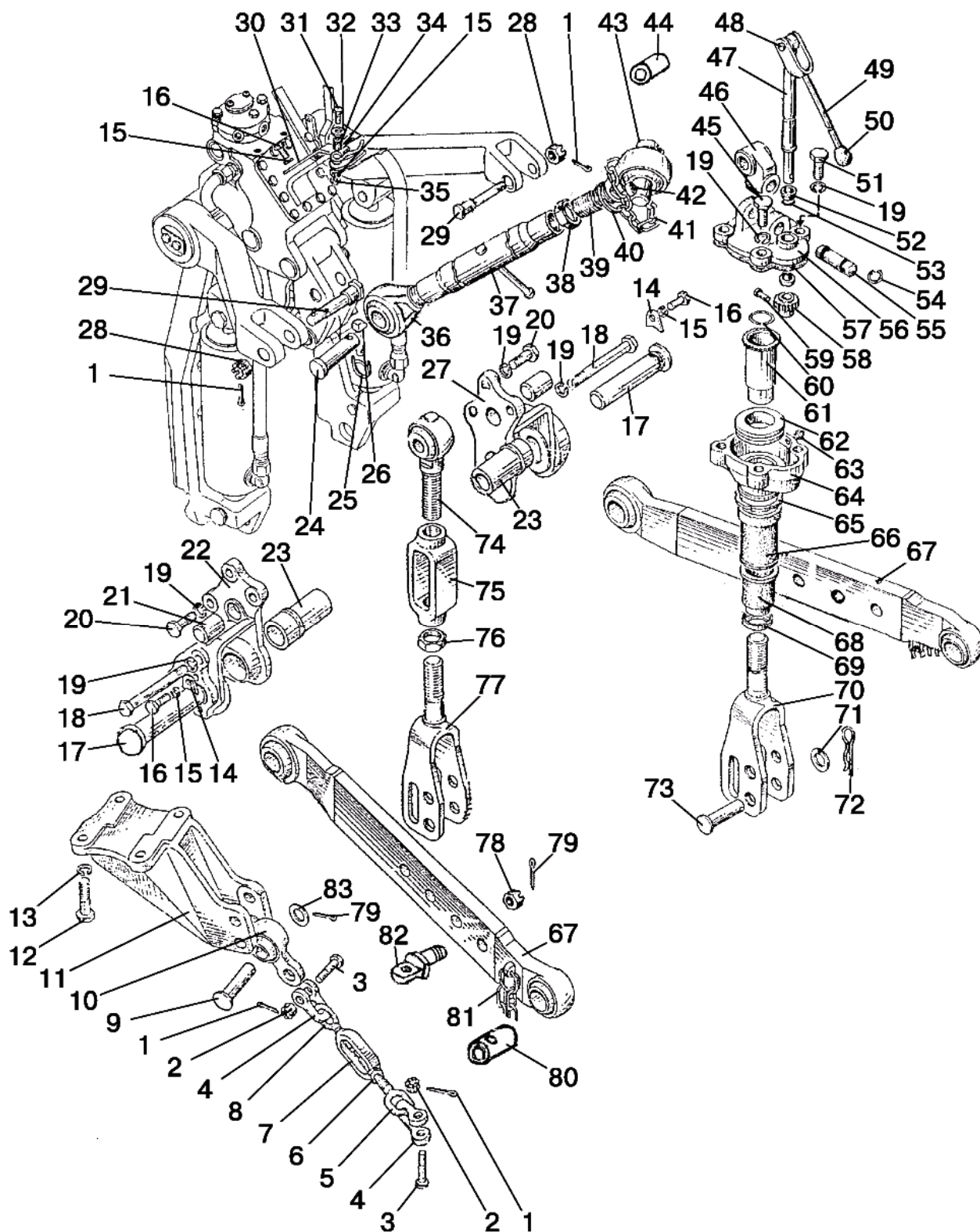


Fig. 46.1. Lift Linkage with Hydraulic Lift

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1220.1/1220.3/1220.4

Group 46. Remote-cylinder Hydraulic System
Subgroup 4605. Lift Linkage with Hydraulic Lift

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.1	41	A61.08.001-03	2	Chain (7 links)
	42	A61.05.100-05	1	Chock with ring
	43	1220-4605693	1	Pin Ø 31,75 (3 category)
		A61.02.001-01	1	Pin Ø 25 (2 category)
		A61.02.001-02	1	Pin Ø 22
	44	1220-4605557	1	Reducing bushing for 2 categories
	45	M16-6gx40.88.35.019 GOST 7796-70	4	Bolt
	46	1220-4605668-B	2	Clip
	47	A61.01.600	2	Shaft
	48	A61.01.016	2	Axis
	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 GOST 18829-73/GOST 9833-73	2	Ring
	54	142-4605431	4	Ring
	55	142-4605404-B	2	Pin
	56	142-4605418-B	2	Cover
	57	142-4605421	2	Gasket
	58	142-4605413	2	Gear
	59	A61.01.005	2	Axis
	60	142-4605403	2	Retainer
	61	142-4605425	2	Pipe
	62	8210 GOST 7872-89	2	Bearing
	63	1.3.LI9.xp GOST 19853-74	2	Oiler
	64	142-4605415	2	Housing
	65	142-4605417	2	Bushing
	66	142-4605407	2	Pipe
	67	1223-4605530-04	2	Rod
	68	142-4605406	2	Cap
	69	142-4605401	2	Retainer
	70	1220-4605615	2	Fork
	71	50-3503071	2	Washer
	72	A61.07.001	2	Spring forelock
	73	1220-4605084-01	2	Pin
	74	1220-4605075	1	Screw
	75	1220-4605422	1	Buckle
	76	1220-4605424	1	Lock nut
	77	1220-4605620-B	1	Fork
	78	70-4605316	2	Nut
	79	5x36.019 GOST 397-79	2	Forelock
	80	1220-4605558	2	Reducing bushing for 2 categories
	81	A61.05.100	2	Chock
	82	1220-4605108	2	Ear
	83	C 16.01.019 GOST 11371-78	2	Washer

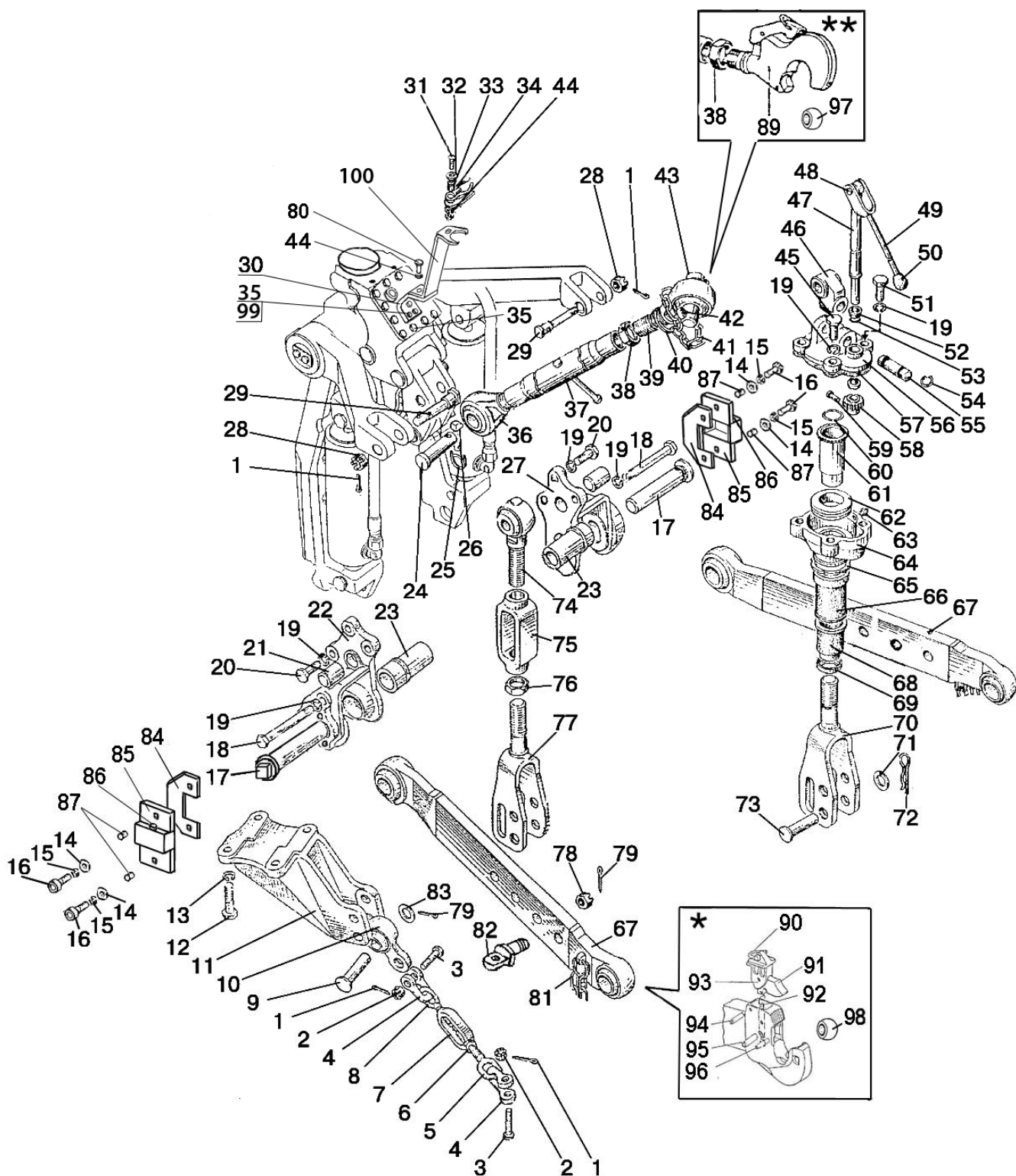


Fig. 46.2. Lift Linkage

Group 46. Remote-cylinder Hydraulic System

Subgroup 4605. Lift Linkage

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.2		E1220-4605510	1	Rear lift linkage (1-83)
		1220-4605120	2	Buckle (1-8, 10)
		1223-4605630-04 *	1	Rod (67, 78, 79, 81, 82)
		1220-4605635-04 *	1	
		1220-4605530-06	2	
		80-4605690 * or A61.03.000-01	1	Upper rod (36-43)
		1220-4605610-01	2/1	Arm (19, 45-66, 68-70)
		70-4605145-01	1	Bracket (16, 30-35)
		A61.03.200-01	1	Screw (39-43)
		1220-4605612-01	0/1	Arm (74-77)
	1	4x36.019 GOST 397-79	6	Forelock
	2	M16-6H.04.019 GOST 5919-73	4	Nut
	3	1220-4605104	4	Bolt
	4	1220-4605107	4	Clip
	5	1220-4605102	2	Screw
	6	M24-6H.04.019 GOST 5916-70	2	Nut
	7	1220-4605103	2	Buckle
	8	1220-4605102-01	2	Screw (LH)
	9	Φ50-4605084	2	Pin
	10	1220-4605105	2	Clip
	11	1220-4605091-B1	1	Right bracket
		1220-4605091-B1-01	1	Left bracket
	12	680-2707024	8	Bolt
	13	20 OT OST 37.001.115-75	8	Washer
	14	C10.01.019 GOST 11371-78	4	Washer
	15	10 OT OST 37.001.115-75	4	Washer
	16	M10-6gx35.56.019 GOST 11738-84	4	Screw
	17	Bosch R917000159	2	Force sensor
	18	80-2800016-01	2	Bolt
	19	16 OT OST 37.001.115-75	16	Washer
	20	1220-4605506	6	Bolt
	21	1220-4605507	2	Pin
	22	E1220-4605501-01	1	Bracket
	23	1220-4605502-01	2	Bushing
	24	A61.10.001-02	1	Pin
	25	A61.05.004	1	Ring
	26	A61.05.005	1	Chock
	27	E1220-4605501	1	Bracket
	28	M20x1,5-6H.04.019 GOST 5919-73	2	Nut
	29	142-4605076 or 921-4605076	2	Pin
	30	E1221-4605671	1	Bracket
	31	M12-6gx35.88.35.019 GOST 7796-70	1	Bolt
	32	C 12.01.019 GOST 11371-78	1	Washer
	33	50-4605069	1	Bushing
	34	A61.07.002	1	Spring
	35	M8-6gx30.88.35.019 GOST 7796-70	3	Bolt
	36	A61.02.100-03	1	Screw
	37	A61.03.100	1	Pipe
	38	A61.02.003	1	Lock nut
	39	A61.02.100-05	1	Screw with hinge Ø 25,7 (2 category)
	40	A61.03.002	2	Ring
	41	A61.08.001-03	2	Chain (7 links)
	42	A61.05.100-05	1	Chock with ring
	43	A61.02.001-01	1	Pin Ø 25 (2 category)
	44	12 OT OST 37.001.115-75	2	Washer

* Links with grips

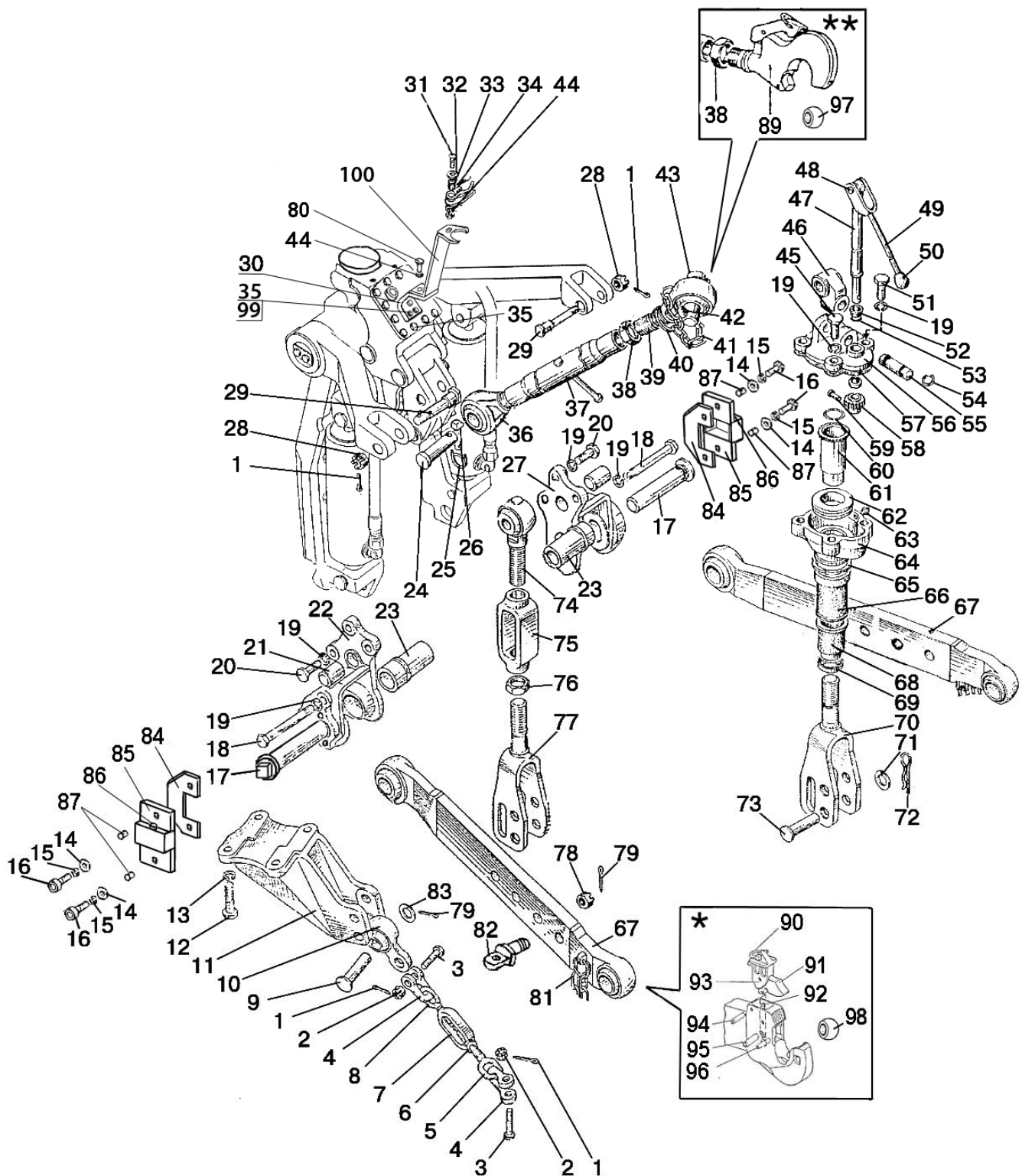


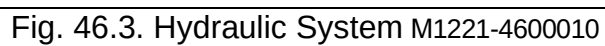
Fig. 46.2. Lift Linkage

Group 46. Remote-cylinder Hydraulic System
Subgroup 4605. Lift Linkage

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.2	45	M16-6gx40.88.35.019 GOST 7796-70	4	Bolt
	46	1220-4605668-B	2	Clip
	47	A61.01.600	2	Shaft
	48	A61.01.016	2	Axis
	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 GOST 18829-73/GOST 9833-73	2	Ring
	54	142-4605431	4	Ring
	55	142-4605404-B	2	Pin
	56	142-4605418-B	2	Cover
	57	142-4605421	2	Gasket
	58	142-4605413	2	Gear
	59	A61.01.005	2	Axis
	60	142-4605403	2	Retainer
	61	142-4605425	2	Pipe
	62	8210 GOST 7872-89	2	Bearing
	63	1.3.149.xp GOST 19853-74	2	Oiler
	64	142-4605415	2	Housing
	65	142-4605417	2	Bushing
	66	142-4605407	2	Pipe
	67	1223-4605530-06	2	Rod
	68	142-4605406	2	Cap
	69	142-4605401	2	Retainer
	70	1220-4605615	2	Fork
	71	50-3503071	2	Washer
	72	A61.07.001	2	Spring forelock
	73	1220-4605084-01	2	Pin
	74	1220-4605075	1	Screw
	75	1220-4605422	1	Buckle
	76	1220-4605424	1	Lock nut
	77	1220-4605620-B	1	Fork
	78	70-4605316	2	Nut
	79	5x36.019 GOST 397-79	2	Forelock
	80	M12-6gx25.88.35.019 GOST 7796-70	2	Bolt
	81	A61.05.100	2	Chock
	82	1220-4605108	2	Ear
	83	C 16.01.019 GOST 11371-78	2	Washer
	84	1522-4605701	2	Joke
	85	1522-4605006	2	Cover
	86	70-3723042-01	2	Bushing
	87	1522-4605702	4	Bushing
	89	80-4605685 **	1	Grip
	90	200030 ***	1	Detent handle
	91	309758 ***	1	Detenr latch
	92	308524 ***	1	Spring
	93	309928 ***	1	Pin 8x18
	94	308520 ***	1	Pin 10x36
	95	099598 ***	1	Pin 13x36
	96	099435 ***	1	Pin 3x32
	97	80-4605691	1	Hinge 2 category Ø 25,7
	98	80-4605693	1	Hinge 2 category Ø 28,7
	99	8T OST 37.001.115-75	3	Washer
	100	70-4605240-A-01	1	Bracket

** Screw with grip

*** For grip Walterscheid



Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.3		M1221-4600010	1	Hydraulic system
	1	M1221-4600015	1	Hydraulic system housing
	2	K1221-4607125	1	Pipe
	3	85-4607034	1	Coupling
	4	П80-4607120	1	Armoured high-pressure hose Ø 16x2
	5	П100-4607140	2	Armoured high-pressure hose Ø 10x1
	7	680-4607140-02	2	Armoured high-pressure hose Ø 10 x1
	12	C80-4607380	1	Pipe
	14	80-4607455	1	Bolt
	19	M036.50Б.10 or HP10-3MX0041AO	5	Left housing Coupling
	21	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	22	XC-31 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	25	K1221-4607011	1	Hose
	26	40-4607037	1	Bolt
	27	П80-4607012	1	Hose
	28	П80-4607013	3	Clamp
	29	П80-4607013-01	1	Clamp
	31	M80-4607014	1	Bracket
	32	80B-4607209	1	Bracket
	35	40-4607033-A or PM24	2	Washer
	36	85-4607431	1	Bracket
	38	P1221-4607070	1	Coupling
	39	1321-3407022	1	Bracket
	41	70-3407146	2	Plate
	42	70-3407163-01	1	Joek
	44	70-3506027	1	Bushing
	45	70-4607156	2	Plate
	46	70-4607168	2	Plate
	47	M80-4607018	1	Bracket
	51	H50-4607137	1	Bracket
	52	50-4608049	1	Gasket
	53	40-4607029-A	1	Plate
	54	40-4607038-A or PM 1/2	2	Washer
	59	M8-6gx40.88.35.019 GOST 7795-70	3	Bolt
	60	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	62	M8-6gx25.88.35.019 GOST 7796-70	2	Bolt
	63	M8-6gx35.88.35.019 GOST 7796-70	1	Bolt
	64	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	65	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	66	M14x1,5-6gx45.88.35.019 GOST 7796-70	4	Bolt
	68	M8-6H.6.019 GOST 5915-70	5	Nut
	69	M10-6H.6.019 GOST 5915-70	3	Nut
	71	C 8.01.019 GOST 11371-78	3	Washer
	72	C 10.01.019 GOST 11371-78	1	Washer
	80	027-032-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	82	8T OST 37.001.115-75	7	Washer
	83	10 OT OST 37.001.115-75	3	Washer
		M036.50Б.20 or HP10-4MX0041AO	6	Right housing Male plug
				(delivered as SPTA)

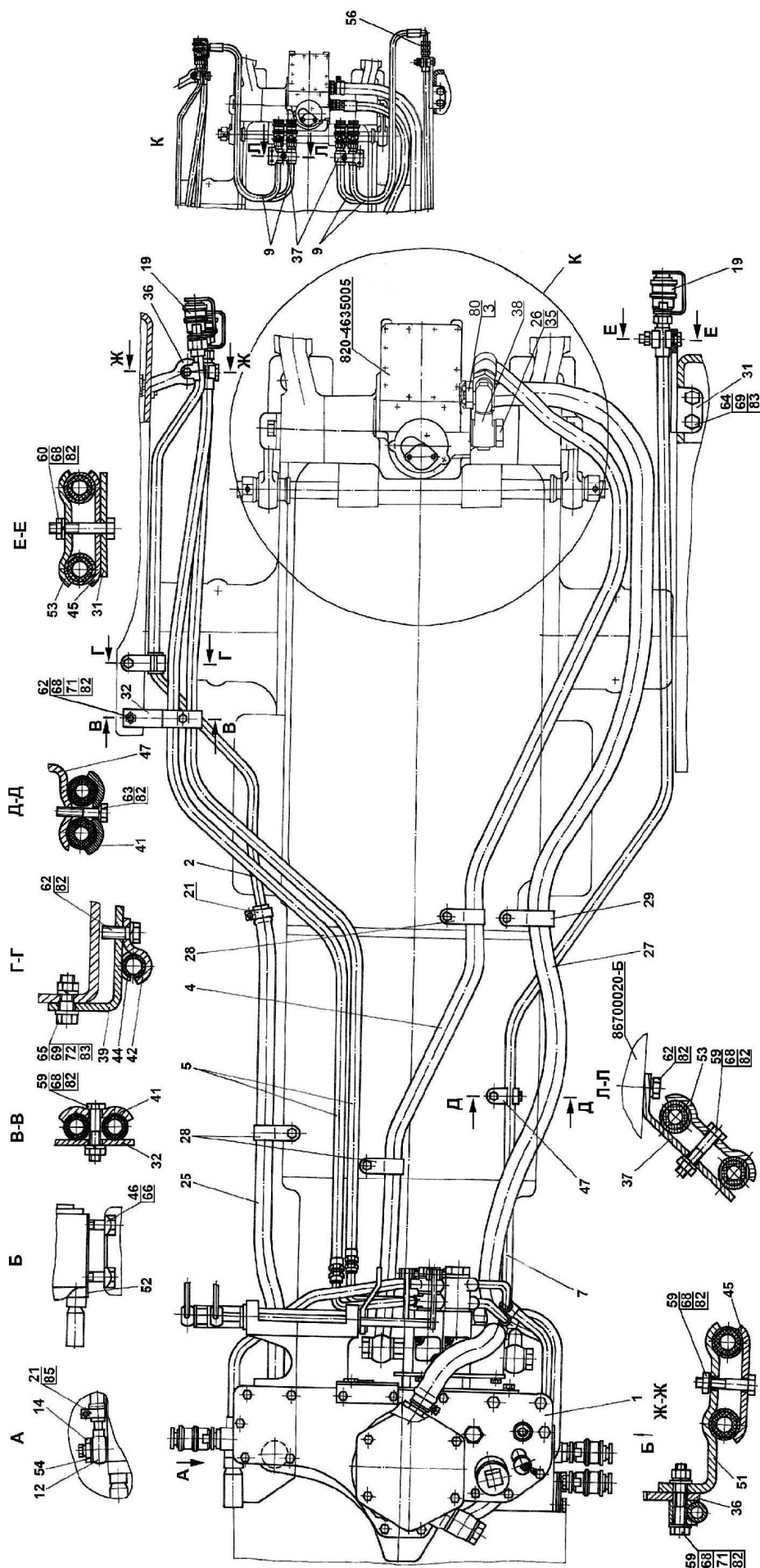


Fig. 46.3. Hydraulic System M1221-4600010

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Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings
Auxiliary Set of Parts (against Order)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.3	9	680-4607140-06	4	Armoured high-pressure hose Ø10x1
	37	85-4607511	2	Bracket
	53	40-4607029-A	2	Plate
	56	H.036.02.002	4	Through coupling
	59	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	62	M8-6gx25.88.35.019 GOST 7796-70	4	Bolt
	68	M8-6H.6.019 GOST 5915-70	2	Nut
	82	8T OST 37.001.115-74	6	Washer

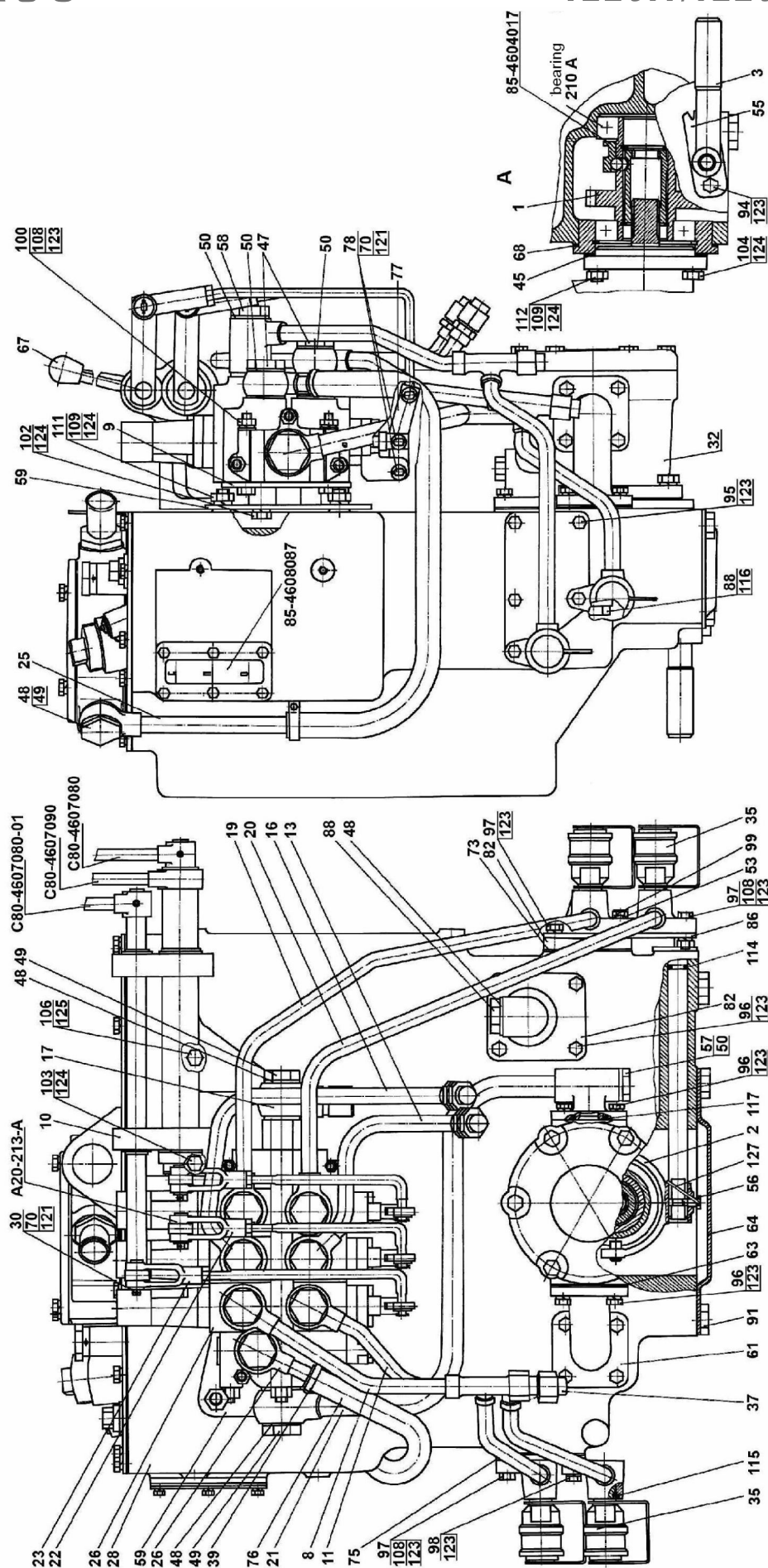


Fig. 46.4. Hydraulic System Housing M1221-4600015

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1220.1/1220.3/1220.4

**Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.4		M1221-4600015	1	Hydraulic system housing
	1	85-4604010	1	Pump drive
	2	85-4604030	1	Fork
	3	85-4604040	1	Disengaging 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-B	1	Pipe
	16	C85-4607080-B	1	Pipe
	17	952-4607080	1	Coupling
	19	C85-4607100	1	Pipe
	20	C85-4607105	1	Pipe
	21	C80-4607075-Г	1	Pipe
	22	C80-4607260	2	Link
	23	C80-4607260-01	1	Link
	25	C80-4607375	1	Pipe
	26	C80-4607380	1	Pipe
	28	85-4608010	1	Hydraulic system housing
	30	A61-030-A1	3	Pin
	32	HШ32M-3 or HШ32MA-3 or HШ32Д-3 or HШ32УКФ-3	1	Gear-type pump
	35	M036.50Б.10 or HP10-3MXA0	4	Left housing Coupling
	37	H.036.12.010	4	Blind plug
	39	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	45	36-1022054-A	1	Gasket
	47	40-4607032	6	Clamp bolt
	48	40-4607033-A-01 or PM 24	8	Washer
	49	40-4607037	3	Bolt
	50	40-4607038-A-01 or PM 1/2	15	Washer
	53	50-3401092	1	Washer
	55	50-4604044	1	Plate
	56	50-4604046	1	Fork bolt
	57	70-4607163	1	Plug
	58	50-4607031	1	Bolt
	59	50-4607032-B	1	Bracket
	61	70-4607096-A	1	Tube
	63	50-4607097	4	Gasket
	64	50-4607099	1	Cover
	67	70-3401093	3	Lever tip
	68	70-4604037	1	Gasket
	70	70-4607144	12	Washer
	73	70-4608033	3	Gasket
	75	80-4608019	1	Cover
	76	C80-4607063	1	Hose



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Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.4	77	C80-4607086	3	Lever
	78	C80-4607088	6	Pin
	82	85-3407101	2	Tube
	86	85-4607432	1	Bracket
	88	85-4608021	2	Plug
	91	1221-1802091	2	Thread plug
	94	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	95	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	96	M8-6gx25.88.35.019 GOST 7796-70	18	Bolt
	97	M8-6gx30.88.35.019 GOST 7796-70	3	Bolt
	98	M8-6gx35.88.35.019 GOST 7796-70	1	Bolt
	99	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	100	M8-6gx65.88.35.019 GOST 7796-70	4	Bolt
	102	M10-6gx20.88.35.019 GOST 7796-70	3	Bolt
	103	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	104	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	106	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	108	M8-6H.6.019 GOST 5915-70	6	Nut
	109	M10-6H.6.019 GOST 5915-70	5	Nut
	111	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	112	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
	114	013-017-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	115	017-022-30-1-4 GOST 18829-73/GOST 9833-73	4	Ring
	117	035-040-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	121	3,2x18.019 GOST 397-79	12	Forelock
	123	8T OST 37.001.115-75	32	Washer
	124	10 OT OST 37.001.115-75	11	Washer
	125	12 OT OST 37.001.115-75	2	Washer
	126	RS-213 Mita	1	Disitributor valve
	127	1,0-O-C GOST 3282-74	1	Wire (250 mm)
		M036.50Б.20 or HP10-4MX0041A0	6	Right housing Male plug
				(delivered as SPTA)

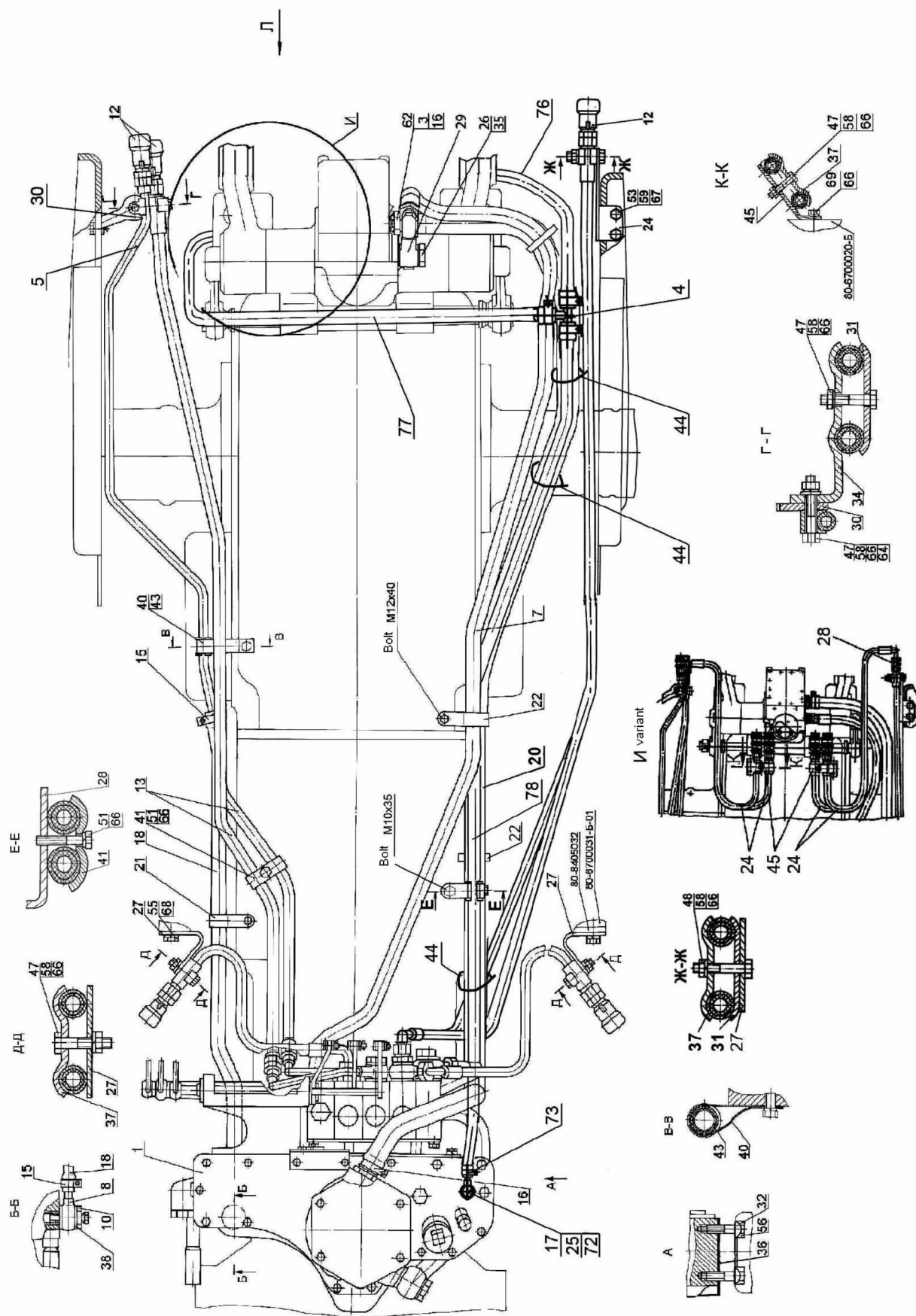


Fig. 46.5a. Hydraulic System P1221-4600010

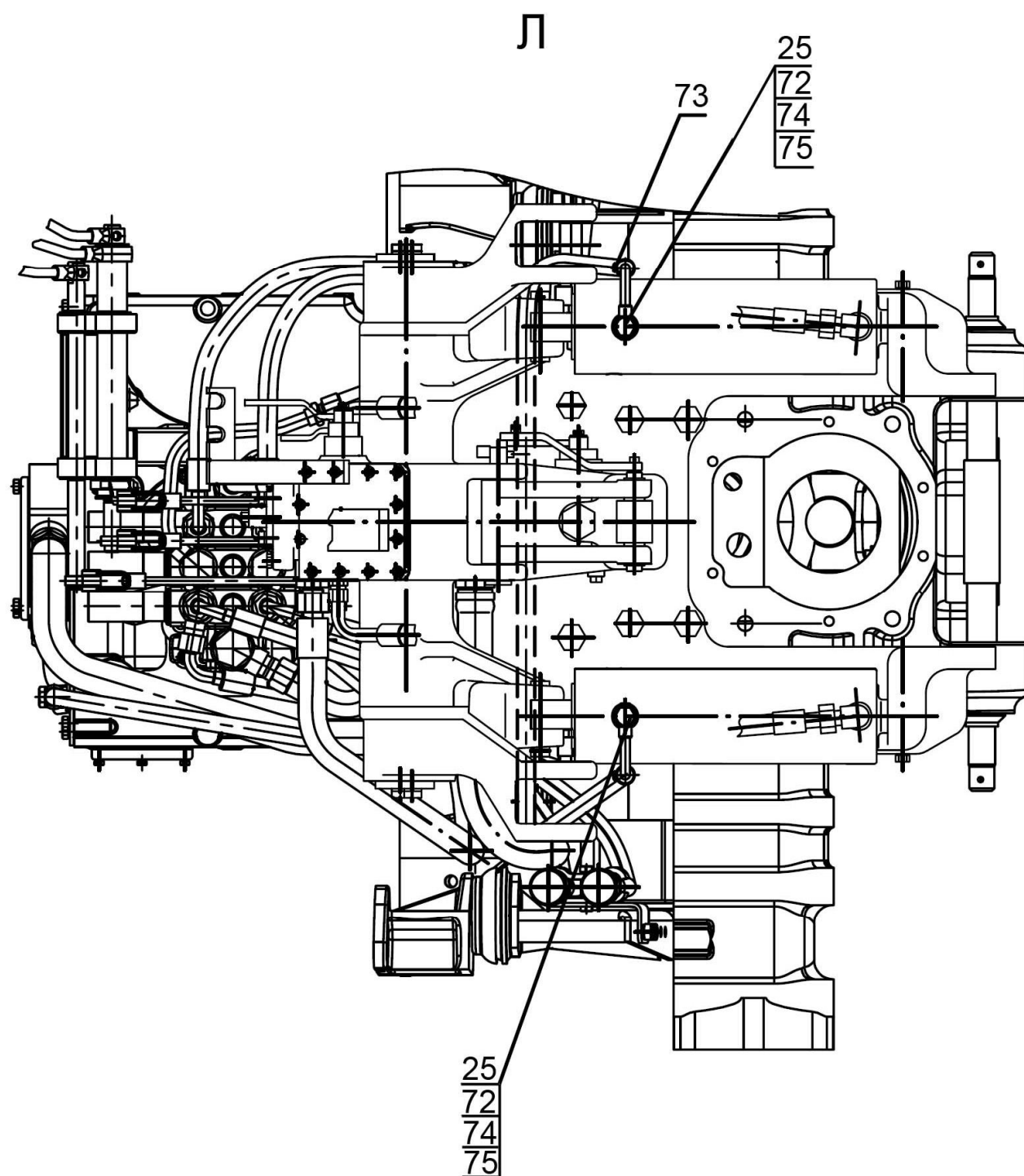


Fig. 46.56. Hydraulic System P1221-4600010

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.5a		P1221-4600010	1	Hydraulic system
46.5b	1	P1221-4600015	1	Hydraulic system housing
	3	85-4607034	1	Coupling
	4	3022-4607120	1	Three way pipe
	5	K1221-4607125	1	Pipe
	7	952-4607140-04	1	Armoured high-pressure hose Ø 16x2
	8	C80-4607380	1	Pipe
	10	80-4607455	1	Bolt
	12	M036.50Б.10 or HP10-3MX0041A0	5	Left housing Coupling
	13	П100-4607140	2	Armoured high-pressure hose Ø 10x1
	15	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	16	XC-31 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	17	Φ80-3407720	1	Oil pipeline
	18	K1221-4607011	1	Hose
	20	П80-4607012	1	Hose
	21	П80-4607013	1	Clamp
	22	П80-4607013-01	2	Clamp
	25	Д18-051	3	Bolt
	26	40-4607037	1	Bolt
	27	M80-4607017	2	Bracket
	28	M80-4607018	1	Bracket
	29	P1221-4607070	1	Coupling
	30	85-4607431	1	Bracket
	31	70-4607156	2	Plate
	32	70-4607168	2	Plate
	34	H50-4607137	1	Bracket
	35	40-4607033-A or PM 24	2	Washer
	36	50-4608049	1	Gasket
	37	40-4607029-A	3	Plate
	38	40-4607038-A or PM 1/2	2	Washer
	40	70-1405112	1	Clamp
	41	70-3407146	1	Plate
	43	70-3506027	1	Bushing
	44	80-3723045-01	4	Collar
	47	M8-6gx40.88.35.019 GOST 7795-70	3	Bolt
	48	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	51	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	53	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	55	M12-6gx30.88.35.019 GOST 7796-70	1	Bolt
	56	M14x1,5-6gx45.88.35.019 GOST 7796-70	4	Bolt
	58	M8-6H.6.019 GOST 5915-70	2	Nut
	59	M10-6H.6.019 GOST 5915-70	2	Nut
	62	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	64	C 8.01.019 GOST 11371-78	1	Washer
	66	8T OST 37.001.115-75	6	Washer
	68	12 OT OST 37.001.115-75	1	Washer
		M036.50Б.20 or HP10-4MX0041A0	6	Right housing Male plug
				} (delivered as SPTA)

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1220.1/1220.3/1220.4

**Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings**

Fig.No	Pos.No	Designation	Q-ty	Name
46.5a	72	PM14	6	Washer
46.56	73		6	Clamp with worm thread 12-22
	74	822-4801190	2	Oil pipeline
	75	P1221-4607101	2	Coupling
	76	P1221-4607102	1	Hose Hose10x18,5-1,6 GOST10362-76 L=(220±5) mm
	77	P1221-4607103	1	Hose Hose10x18,5-1,6 GOST10362-76 L=(850±5) mm
	78	P1221-4607104	1	Hose Hose10x18,5-1,6 GOST10362-76 L=(1920±5) mm

Auxiliary Set of Parts (against Order)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.5a	24	680-4607140-06	4	Armoured high-pressure hose Ø 10x1
46.56	28	H.036.02.002	4	Through coupling
	37	40-4607029-A	2	Plate
	45	85-4607511	2	Bracket
	47	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	69	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	58	M8-6H.6.019 GOST 5915-70	2	Nut
	66	8T OST 37.001.115-75	6	Washer

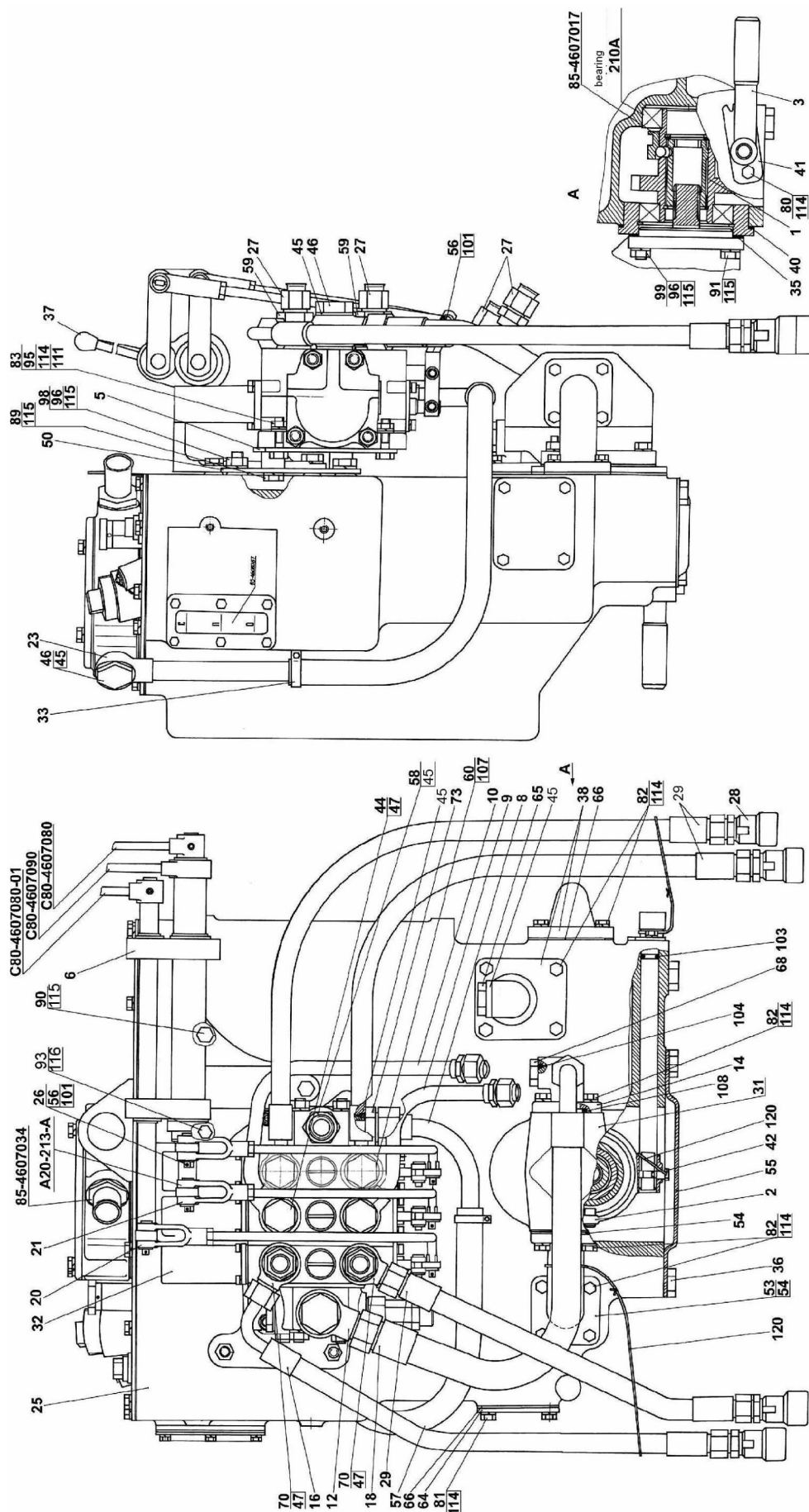
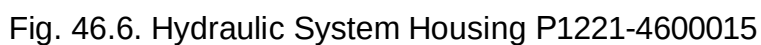


Fig. 46.6. Hydraulic System Housing P1221-4600015

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.6		P1221-4600015	1	Hydraulic system housing
	1	80-4604010	1	Pump drive
	2	85-4604030	1	Fork
	3	85-4604040	1	Disengaging handle
	5	P1221-4607030	1	Bracket
	6	80-4607040-04	1	Bracket
	8	P1221-4607050	1	Pipe
	9	85-4607060-B	1	Pipe
	10	85-4607080-B	1	Pipe
	12	952-4607080	1	Coupling
	14	Д80-4607100	1	Tube
	16	680-4607140-04	1	Armoured high-pressure hose Ø 10x1
	18	952-4607140-09	1	Armoured high-pressure hose Ø 16x2
	20	P1221-4607260-01	1	Link
	21	P1221-4607260	2	Link
	23	80B-4607375	1	Pipe
	25	85-4608010	1	Hydraulic system housing
	26	A61-030-A1	3	Pin
	27	H.036.12.010	4	Blind plug
	28	M036.50Б.10 or HP10-3MX0041AO	4	Left housing Coupling
	29	ПН.036.83.040	3	Armoured high-pressure hose Ø 10x1
	31	HШ32М-3 or HШ32МА-3 or HШ32Д-3 or HШ32УКФ-3	1	Gear-type pump
	32	РП70-1221	1	Distributor valve
	33	XC-26 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	35	36-1022054-A	1	Gasket
	37	70-3401093	3	Lever tip
	38	85-3407101	2	Tube
	40	70-4604037	1	Gasket
	41	50-4604044	1	Plate
	42	50-4604046	1	Fork bolt
	44	40-4607032	4	Clamp bolt
	45	40-4607033-A or PM 24	8	Washer
	46	40-4607037	2	Bolt
	47	40-4607038-A or PM 1/2	12	Washer
	50	50-4607032-B	1	Bracket
	53	50-4607096-A	1	Tube
	54	50-4607097	4	Gasket
	55	50-4607099	1	Cover
	56	70-4607144	6	Washer
	57	M80-4607011	1	Hose
	58	П80-4607016	1	Coupling
	59	952-4607061	2	Coupling
	64	70-4608019	1	Cover
	65	85-4608021	2	Plug
	66	70-4608033	3	Gasket
	68	50-4608027-B	1	Plug
	70	530-4614029	4	Elbow
	73	H.036.04.011	1	Mail pipe adapter
	80	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	81	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	82	M8-6gx25.88.35.019 GOST 7796-70	20	Bolt



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1220.1/1220.3/1220.4

**Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings**

Fig.No	Pos.No	Designation	Q-ty	Name
46.6	83	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	89	M10-6gx20.88.35.019 GOST 7796-70	4	Bolt
	90	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	91	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	93	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	95	M8-6H.6.019 GOST 5915-70	4	Nut
	96	M10-6H.6.019 GOST 5915-70	5	Nut
	98	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	99	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
	101	3,2x18.019 GOST 397-79	6	Forelock
	103	013-017-25-1-4 GOST 18829-73/9833-73	1	Ring
	104	017-022-30-1-4 GOST 18829-73/9833-73	1	Ring
	108	035-040-30-1-4 GOST 18829-73/9833-73	1	Ring
	111	C 8.01.019 GOST 11371-78	4	Washer
	114	8T OST 37.001.115-75	30	Washer
	115	10 OT OST 37.001.115-75	12	Washer
	116	12 OT OST 37.001.115-75	2	Washer
	120	1,0-O-C GOST 3282-74	3	Wire (150 mm)

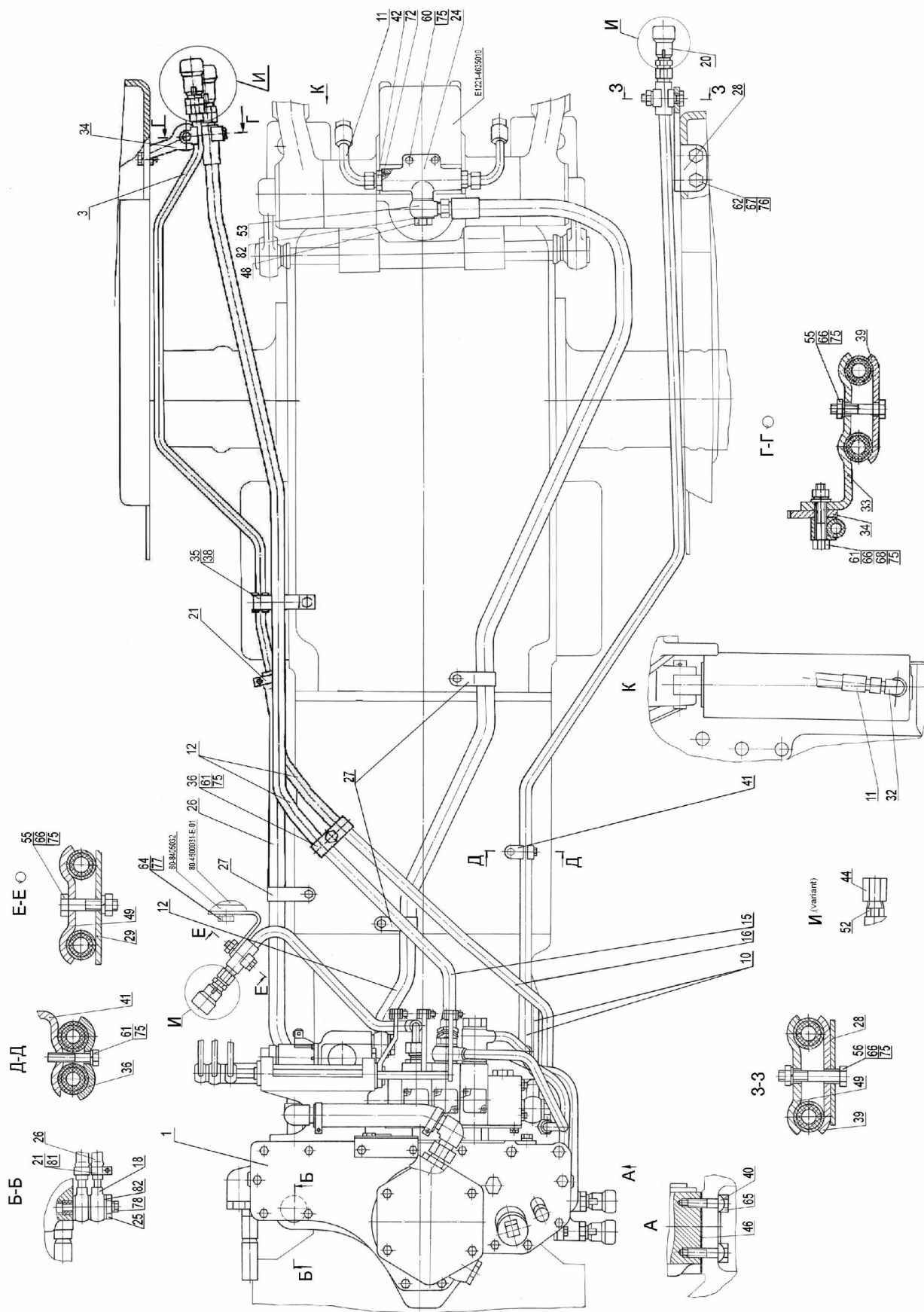


Fig. 46.7. Hydraulic System E1221-4600010

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.7		E1221-4600010	1	Hydraulic system
	1	E1221-4600015	1	Hydraulic system housing
	3	K1221-4607125	1	Pipe
	10	680-4607140-02	2	Armoured high-pressure hose Ø 10x1
	11	680-4607140-15	2	Armoured high-pressure hose Ø 10x1
	12	100-4607140	1	Armoured high-pressure hose Ø 12,5x2
	15	П100-4607140	1	Armoured high-pressure hose Ø 10x1
	16	П100-4607140-01	1	Armoured high-pressure hose Ø 10x1
	18	C80-4607380	1	Pipe
	20	M036.50Б.10 or HP10-3MX0041AO	5	Left housing Coupling
	21	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	24	E1221-4607111	1	Three way pipe
	25	E1221-4607332	1	Bolt
	26	K1221-4607011	1	Hose
	27	П80-4607013	3	Clamp
	28	M80-4607014	1	Bracket
	29	M80-4607017	1	Bracket
	32	1522-3514033	2	Elbow
	33	H50-4607137	1	Bracket
	34	85-4607431	1	Bracket
	35	70-1405112	1	Clamp
	36	70-3407146	1	Plate
	38	70-3506027	1	Bushing
	39	70-4607156	2	Plate
	40	70-4607168	2	Plate
	41	M80-4607018	1	Bracket
	42	70-1405089	2	Mail pipe adapter
	44	A50-4607302	5	Blind plug
	46	50-4608049	1	Gasket
	48	40-4607032	1	Clamp bolt
	49	40-4607029-A	2	Plate
	52	H.036.05.002	5	Mail pipe adapter
	53	530-4614029	1	Elbow
	55	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	56	M8-6gx45.88.35.019 GOST 7795-70	1	Bolt
	60	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	61	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt
	62	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	64	M12-6gx30.88.35.019 GOST 7796-70	1	Bolt
	65	M14x1,5-6gx45.88.35.019 GOST 7796-70	4	Bolt
	66	M8-6H.6.019 GOST 5915-70	5	Nut
	67	M10-6H.6.019 GOST 5915-70	2	Nut
	68	C 8.01.019 GOST 6958-78	1	Washer
	72	017-022-30-1-4 GOST 18829-73/9833-73	2	Ring
	75	8T OST 37.001.115-75	8	Washer
	76	10 OT OST 37.001.115-75	2	Washer
	77	12 OT OST 37.001.115-75	1	Washer
	78	КГ 1/4". A12.019 TU 23.1.506-91	1	Plug
	82	4600.20	3	Washer PM1/2
		M036.50Б.20 or HP10-4MX0041AO	6	Right housing Male plug
				(delivered as SPTA)

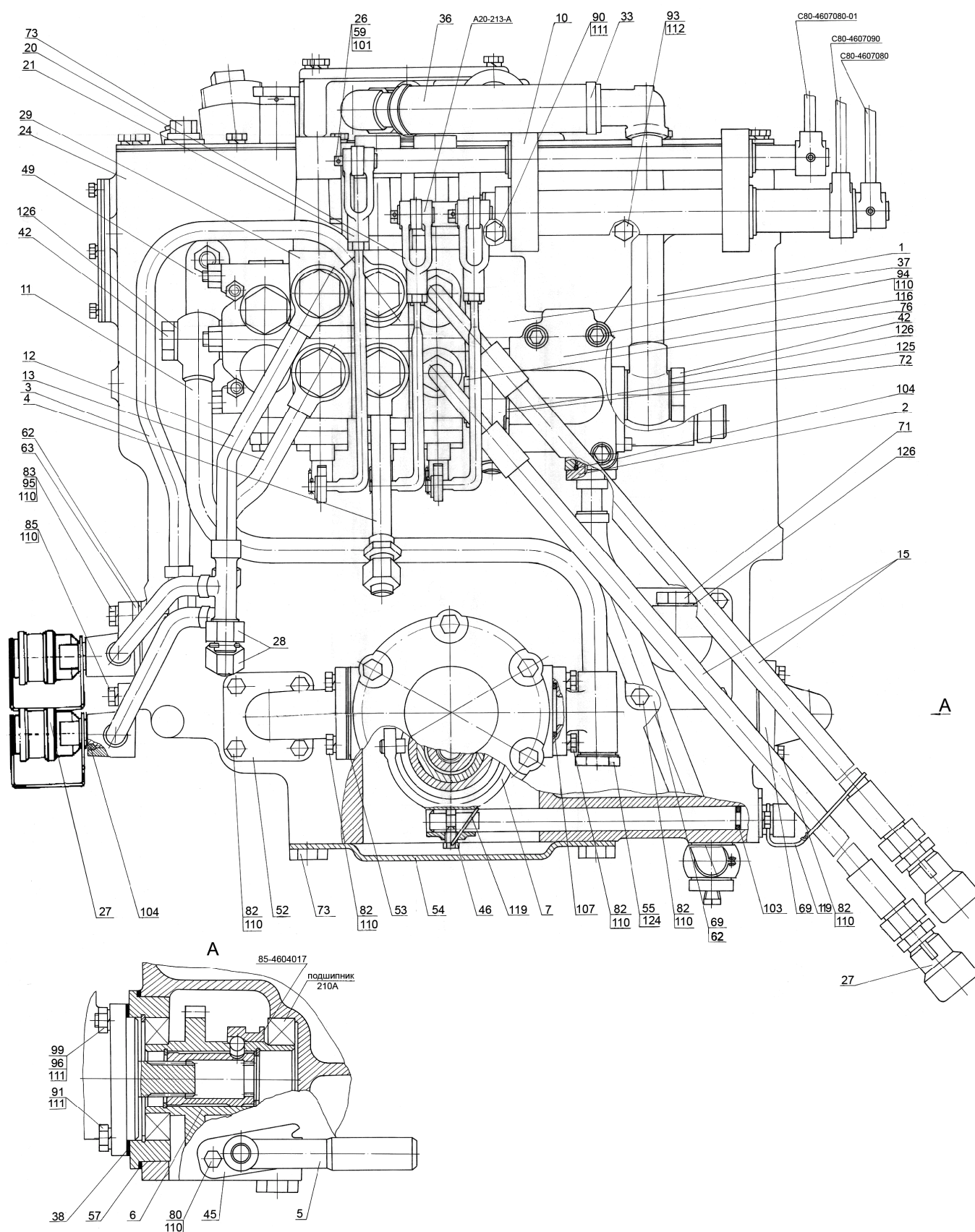


Fig. 46.8a. Hydraulic System Housing E1221-4600015

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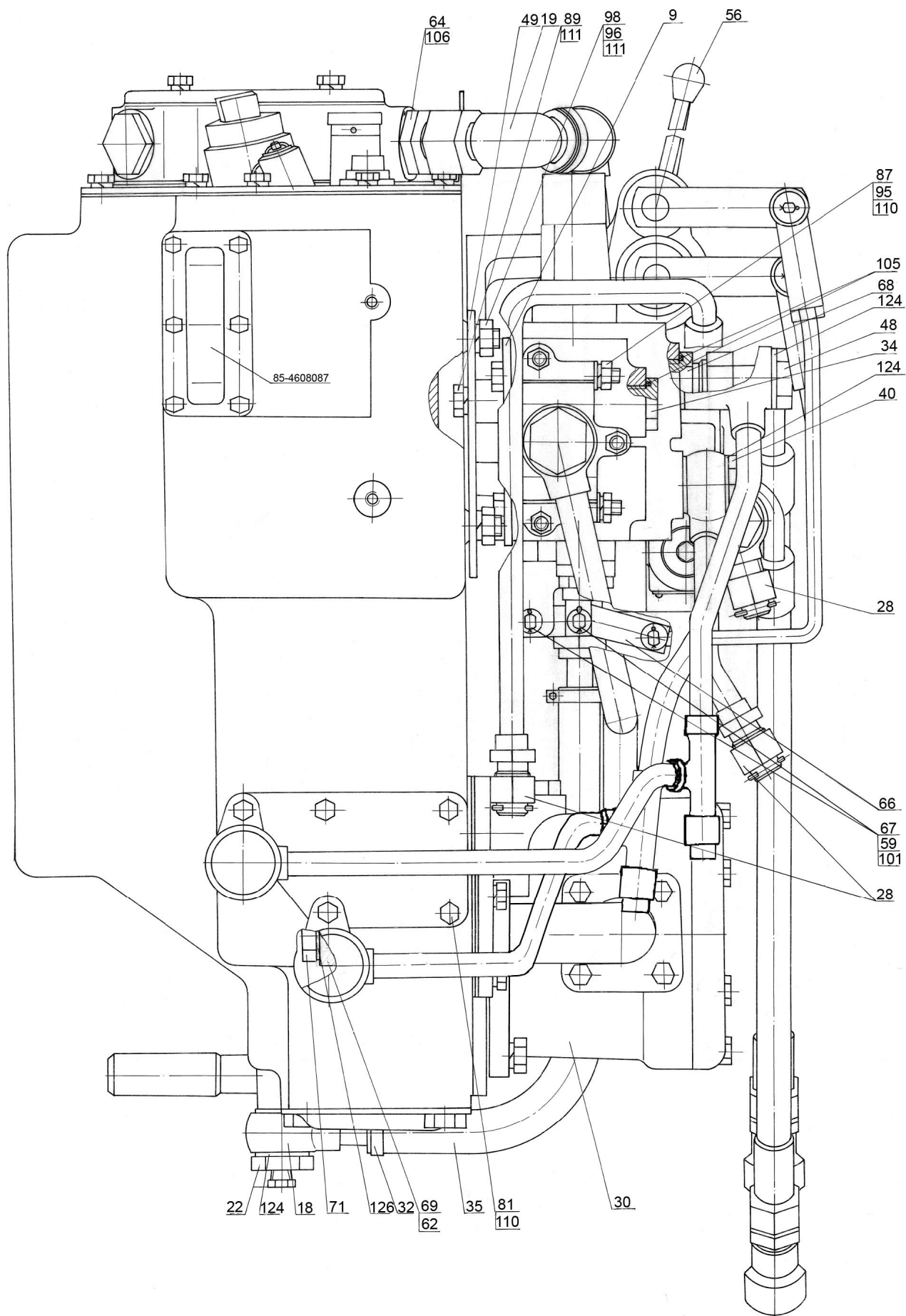


Fig. 46.86. Hydraulic System Housing E1221-4600015

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.8a, 46.86		E1221-4600015	1	Hydraulic system housing
	1	E1021-4607010	1	Pipe
	2	E1021-4607020	1	Pipe
	3	E1021-4607165	1	Pipe
	4	E1021-4607170	1	Pipe
	5	85-4604040	1	Disengaging handle
	6	85-4604010	1	Pump drive
	7	85-4604030	1	Fork
	9	C80-4607030	1	Bracket
	10	80-4607040-04	1	Bracket
	11	C80-4607075-Г	1	Pipe
	12	C85-4607025	1	Pipe
	13	C85-4607045	1	Pipe
	15	680-4607140-04	2	Armoured high-pressure hose Ø 10x1
	18	C80-4607380	1	Pipe
	19	680-4607510	1	Tube
	20	C80-4607260	2	Link
	21	C80-4607260-01	1	Link
	22	80-4607455	1	Bolt
	24	85-4608010	1	Hydraulic system housing
	26	A61-030-A1	3	Pin
	27	M036.50Б.10 or HP10-3MX0041A0	4	Left housing Coupling
	28	H.036.12.010	5	Blind plug
	32	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	33	XC-31 or "NORMA" TORRO 25-40/9-C6W	2	Clamp
	34	E1021-4607031	1	Plug
	35	E1021-4607063	1	Hose Hose 14x23-1,6 GOST 10362-76 L=(370± 5)mm
	36	E1021-4607064-Б	1	Hose Hose 25x35-1,6 GOST 10362-76 L=(180± 5)mm
	37	952-4607312	1	Cover
	38	36-1022054-A	1	Gasket
	40	40-4607032	4	Clamp bolt
	42	40-4607037	2	Bolt
	45	50-4604044	1	Plate
	46	50-4604046	1	Fork bolt
	48	50-4607031	1	Bolt
	49	50-4607032-Б	1	Bracket
	52	50-4607096-A	1	Tube
	53	50-4607097	4	Gasket
	54	50-4607099	1	Cover
	55	70-4607163	1	Plug
	56	70-3401093	3	Lever tip
	57	70-4604037	1	Gasket
	59	70-4607144	12	Washer
	62	70-4608033	3	Gasket
	63	80-4608019-01	1	Cover
	64	C80-4607034	1	Coupling
	66	C80-4607086	3	Lever
	67	C80-4607088	6	Pin
	68	C80-4607204	2	Coupling
	69	85-3407101	2	Tube

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.8a, 46.86	71	85-4608021	2	Plug
	72	E1221-4607029	1	Elbow
	73	1221-1802091	3	Thread plug
	76	1522-4607011-A	1	Bolt
	80	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	81	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	82	M8-6gx25.88.35.019 GOST 7796-70	20	Bolt
	83	M8-6gx30.88.35.019 GOST 7796-70	1	Bolt
	85	M8-6gx35.88.35.019 GOST 7796-70	1	Bolt
	87	M8-6gx65.88.35.019 GOST 7796-70	4	Bolt
	89	M10-6gx20.88.35.019 GOST 7796-70	4	Bolt
	90	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	91	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	93	M12-6gx35.88.35.019 GOST 7796-70	2	Bolt
	94	M8-6gx50.56.019 GOST 11738-84	3	Screw
	95	M8-6H.6.019 GOST 5915-70	5	Nut
	96	M10-6H.6.019 GOST 5915-70	5	Nut
	98	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	99	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
	101	3,2x18.019 GOST 397-79	12	Forelock
	103	013-017-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	104	017-022-30-1-4 GOST 18829-73/GOST 9833-73	3	Ring
	105	024-028-25-1-4 GOST 18829-73/GOST 9833-73	3	Ring
	106	027-032-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	107	035-040-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	110	8T OST 37.001.115-75	33	Washer
	111	10 OT OST 37.001.115-75	12	Washer
	112	12 OT OST 37.001.115-75	2	Washer
	124	PM 1/2	11	Washer
	125	PM 22	2	Washer
	126	PM 24	6	Washer

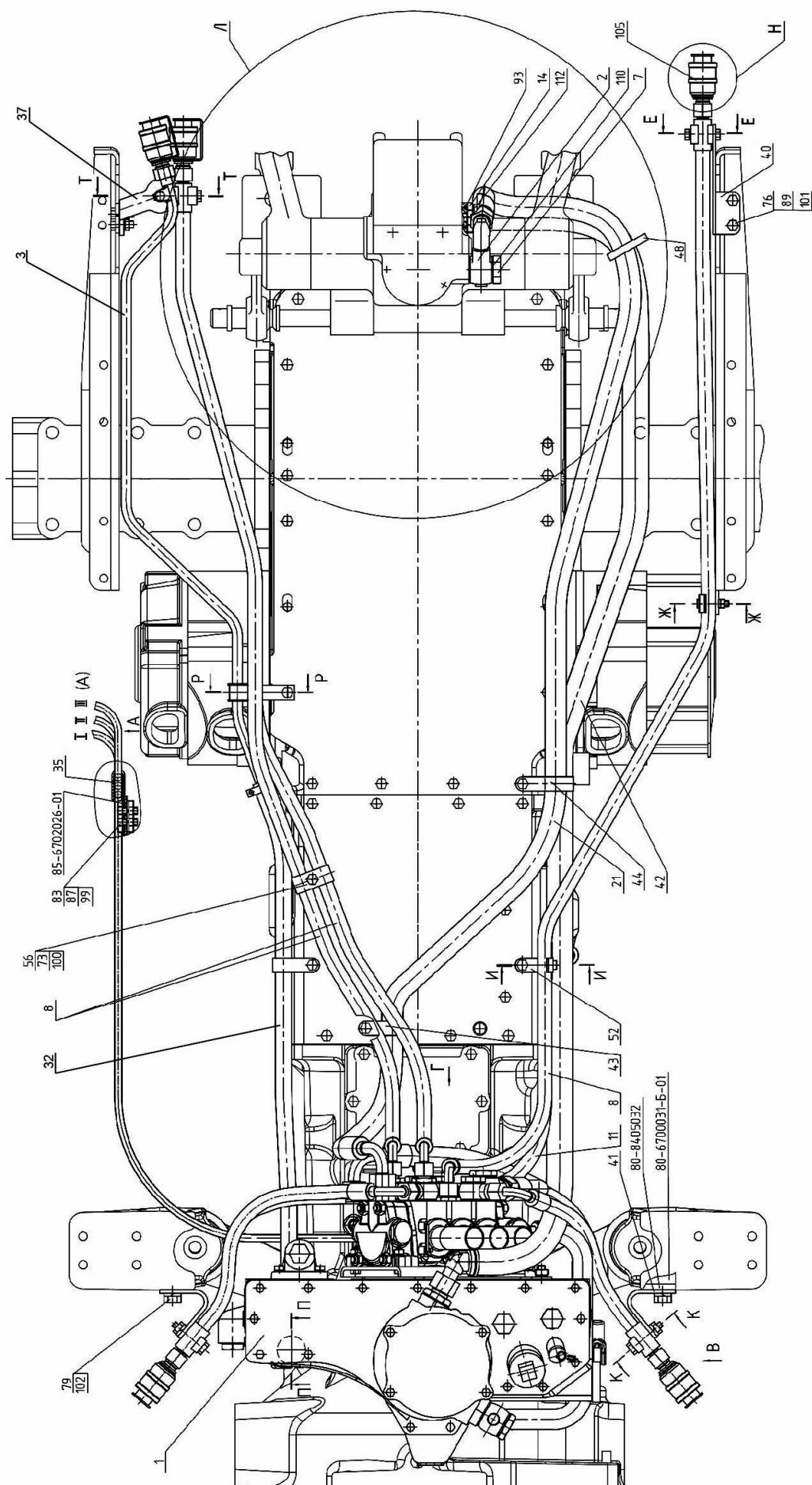


Fig. 46.9a. Hydraulic System P920-4600010-01

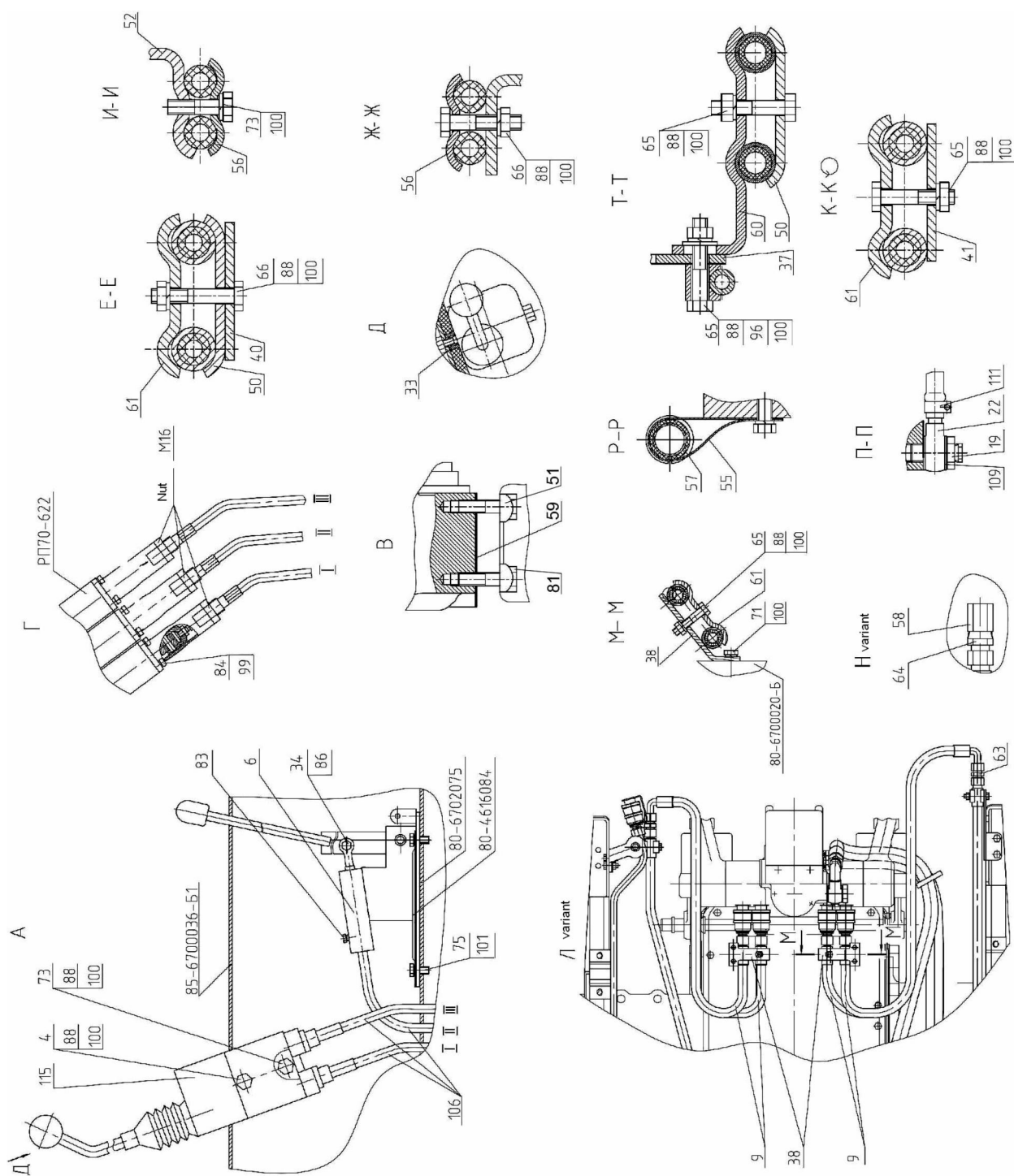


Fig. 46.96. Hydraulic System P920-4600010-01

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.9a, 46.96		P920-4600010-01		Hydraulic system
	1	P920-4600015-01	1	Hydraulic system housing
	2	P1221-4607070	1	Coupling
	3	K1221-4607125	1	Pipe
	4	952-4607011-A	1	Bolt
	6	C90-4607100-01	1	Control
	7	40-4607037	1	Bolt
	8	680-4607140-03	3	Armoured high-pressure hose Ø 10 x1
	9	680-4607140-06	4	Armoured high-pressure hose Ø 10x1
	11	П100-4607140-01	1	Armoured high-pressure hose Ø 10x1
	14	85-4607034	1	Coupling
	19	80-4607455	1	Bolt
	21	952-4607140-04	1	Armoured high-pressure hose Ø 16x2
	22	C80-4607380	1	Pipe
	32	K1221-4607011	1	Hose
	33	952-4607013	2	Bushing
	34	C90-4607026	1	Screw
	35	C90-4607107-B	1	Plate
	37	85-4607431	1	Bracket
	38	85-4607511	2	Bracket
	40	M80-4607014	1	Bracket
	41	M80-4607017	2	Bracket
	42	П80-4607012	1	Hose
	43	П80-4607013	2	Clamp
	44	П80-4607013-01	1	Clamp
	48	80-3723045-01	1	Collar
	50	70-4607156	2	Plate
	51	70-4607168	2	Plate
	52	M80-4607018	1	Bracket
	55	70-1405112	1	Clamp
	56	70-3407146	3	Plate
	57	70-3506027	1	Bushing
	58	A50-4607302	4	Blind plug
	59	50-4608049	1	Gasket
	60	H50-4607137	1	Bracket
	61	40-4607029-A	3	Plate
	63	H.036.02.002	4	Through coupling
	64	H.036.05.002	4	Male pipe adapter
	65	M8-6gx40.88.35.019 GOST 7795-70	4	Bolt
	66	M8-6gx45.88.35.019 GOST 7795-70	2	Bolt
	71	M8-6gx25.88.35.019 GOST 7796-70	4	Bolt
	73	M8-6gx35.88.35.019 GOST 7796-70	4	Bolt
	75	M10-6gx18.88.35.019 GOST 7796-70	4	Bolt
	76	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	79	M12-6gx30.88.35.019 GOST 7796-70	1	Bolt
	81	M14x1,5-6gx45.88.35.019 GOST 7796-70	4	Bolt
	83	M6-6gx14.88.35.019 GOST 7798-70	3	Bolt
	84	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt

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Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.9a, 46.96	86	M5-6H.6.019 GOST 5915-70	1	Nut
	87	M6-6H.6.019 GOST 5915-70	2	Nut
	88	M8-6H.6.019 GOST 5915-70	8	Nut
	89	M10-6H.6.019 GOST 5915-70	2	Nut
	93	027-032-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	96	C 8.01.019 GOST 6958-78	1	Washer
	99	6T OST 37.001.115-75	8	Washer
	100	8T OST 37.001.115-75	10	Washer
	101	10 OT OST 37.001.115-75	6	Washer
	102	12 OT OST 37.001.115-75	1	Washer
	105	M036.50Б.10 or HP10-3MX0041A0	5	Left housing Coupling
	106	132-001-01	3	Rope
	109	4600.20	2	Washer PM1/2
	110	4600.22	2	Washer PM24
	111	5000.02	2	Clamp with worm thread 16-27
	112	5000.04	2	Clamp with worm thread 25-40
	115	PY-1 ТАИС.303654.001-01	1	Joystick
		M036.50Б.20 or HP10-4MX0041A0	6	Right housing Male plug
				} (delivered as SPTA)

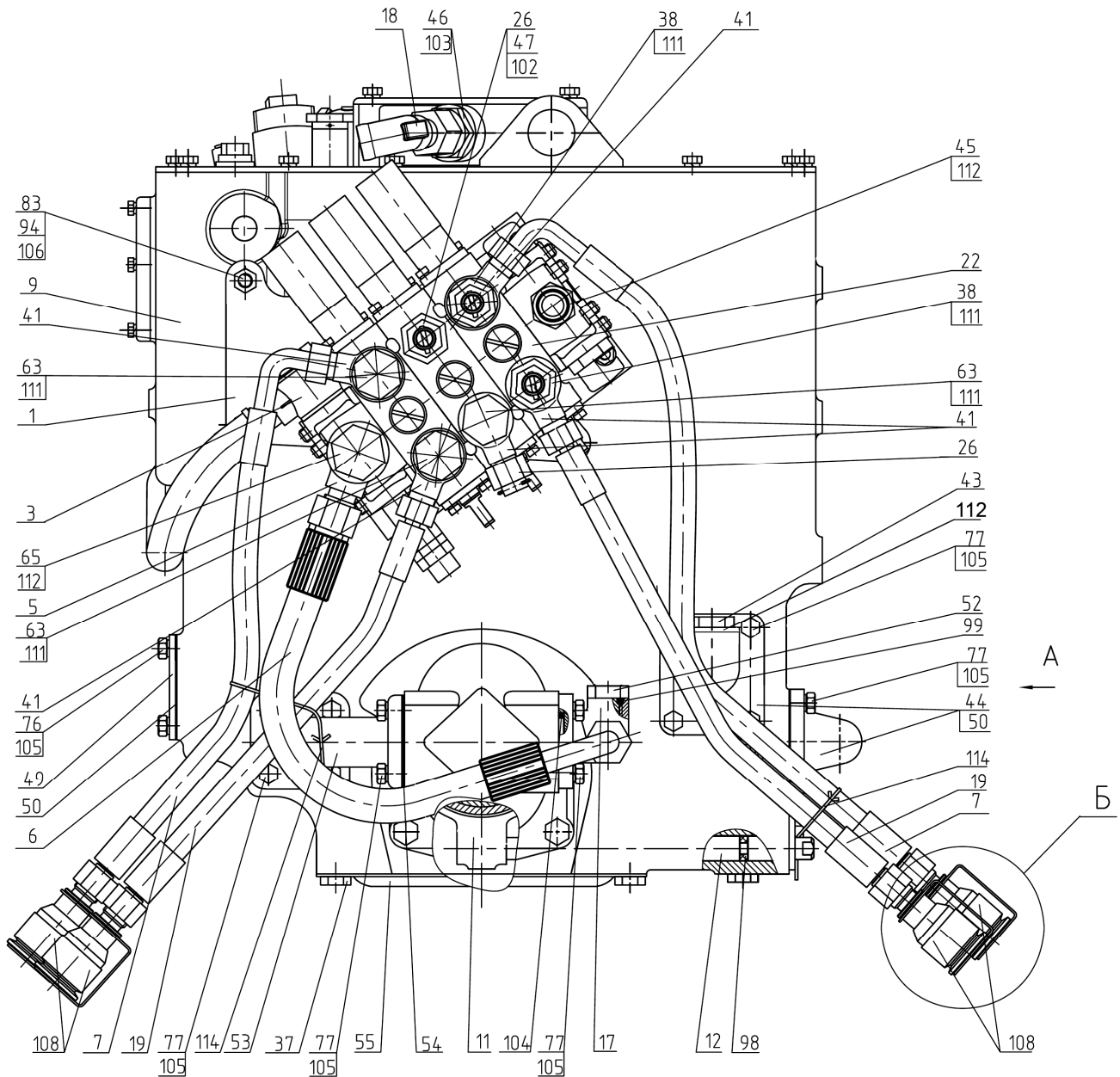


Fig. 46.10a. Hydraulic System Housing P920-4600015-01

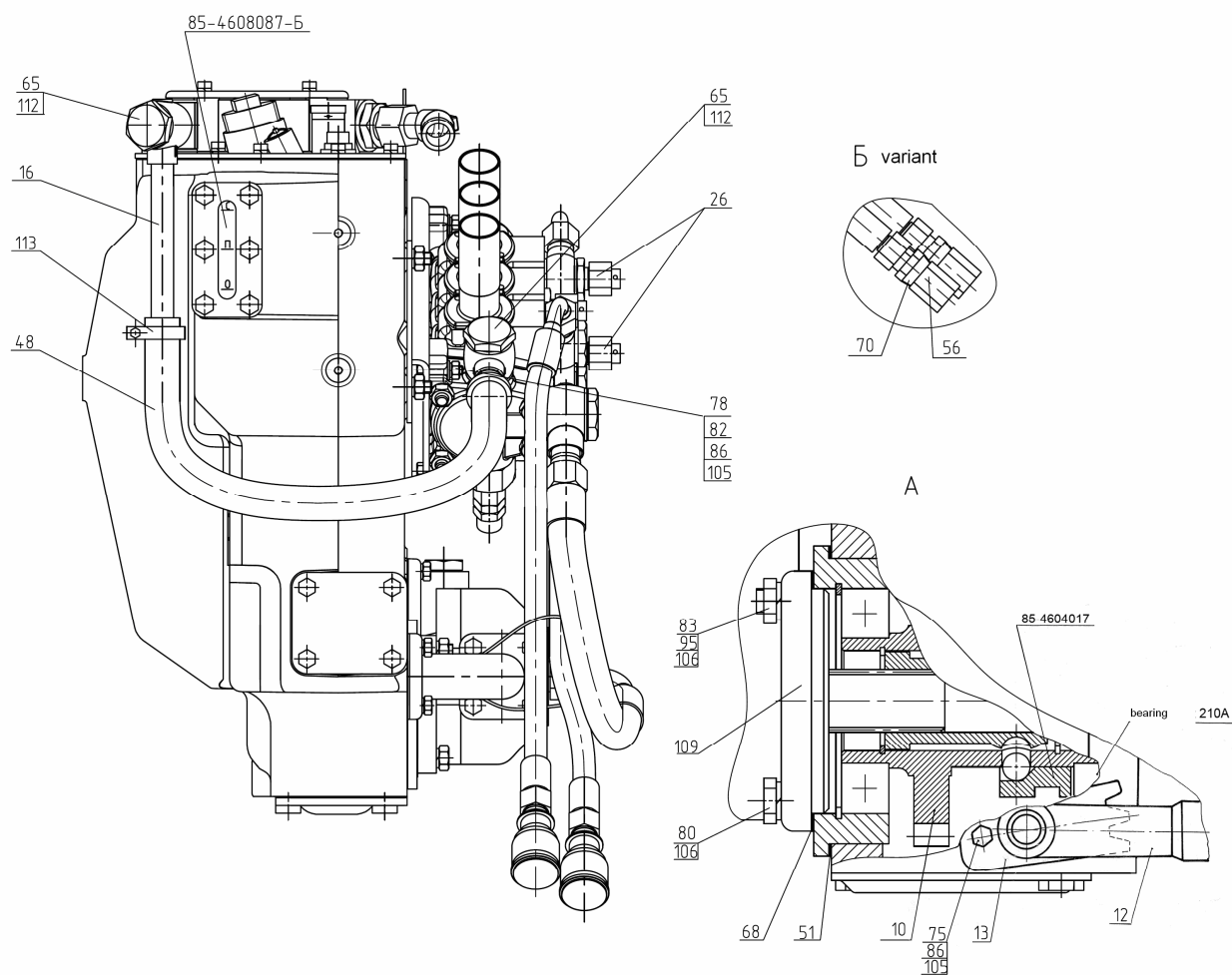


Fig. 46.106. Hydraulic system housing P920-4600015-01

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.10a, 46.106		P920-4600015-01		Hydraulic system housing
	1	P952-4607020	1	Bracket
	3	2022-4607020	1	Pipe
	5	952-4607080	1	Coupling
	6	952-4607140	1	Armoured high-pressure hose Ø 16x2
	7	680-4607140-04	2	Armoured high-pressure hose Ø 10x1
	9	85-4608010	1	Hydraulic system housing
	10	85-4604010	1	Pump drive
	11	85-4604030	1	Fork
	12	85-4604040	1	Shaft
	13	50-4604044	1	Gasket
	16	80B-4607375	1	Pipe
	17	Д80-4607100	1	Tube
	18	C80-4607520	1	Tube
	19	ПН.036.83.040	2	Armoured high-pressure hose Ø 10x1
	22	РП70-622	1	Distributor valve
	26	H.036.12.010	4	Blind plug
	37	1221-1802091	2	Thread plug
	38	952-4607061	2	Coupling
	41	530-4614029	5	Elbow
	43	85-4608021	2	Plug
	44	85-3407101	2	Tube
	46	C80-4607034	1	Coupling
	45	П80-4607016	1	Coupling
	47	C80-4607204	1	Coupling
	48	M80-4607011	1	Hose
	49	70-4608019	1	Cover
	50	70-4608033	3	Gasket
	51	70-4604037	1	Gasket
	52	50-4608027-B	1	Plug
	53	50-4607096-A	1	Tube
	54	50-4607097	4	Gasket
	55	50-4607099	1	Cover
	56	A50-4607302	4	Blind plug
	63	40-4607032	3	Clamp bolt
	65	40-4607037	3	Bolt
	68	36-1022054-A	1	Gasket
	70	H.036.05.002	4	Male pipe adapter
	75	M8-6gx16.88.35.019 GOST 7796-70	1	Bolt
	76	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	77	M8-6gx25.88.35.019 GOST 7796-70	20	Bolt
	78	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	80	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	82	M8-6H.6.019 GOST 5915-70	4	Nut
	83	M10-6H.6.019 GOST 5915-70	5	Nut
	86	C 8.01.019 GOST 11371-78	5	Washer
	105	8T OST 37.001.115-75	29	Washer
	106	10 OT OST 37.001.115-75	7	Washer
	94	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	95	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
	98	013-017-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring

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1220.1/1220.3/1220.4

**Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings**

Fig.No	Pos.No	Designation	Q-ty	Name
46.10a, 46.106	99	017-022-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	102	024-028-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	103	027-032-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	104	035-040-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	108	M036.50Б.10 or HP10-3MX0041A0	5	Left housing Coupling
	109	НШ32М-3 or НШ32МА-3 or НШ32М-4 or НШ32УКФ-3 or НШ32Д-3	1	Pump
	111	4600.20	10	Washer PM1/2
	112	4600.22	9	Washer PM24
	113	5000.03	2	Clamp with worm thread 20-32
	114	503355	300	Wire 1,0-O-C GOST 3282-74



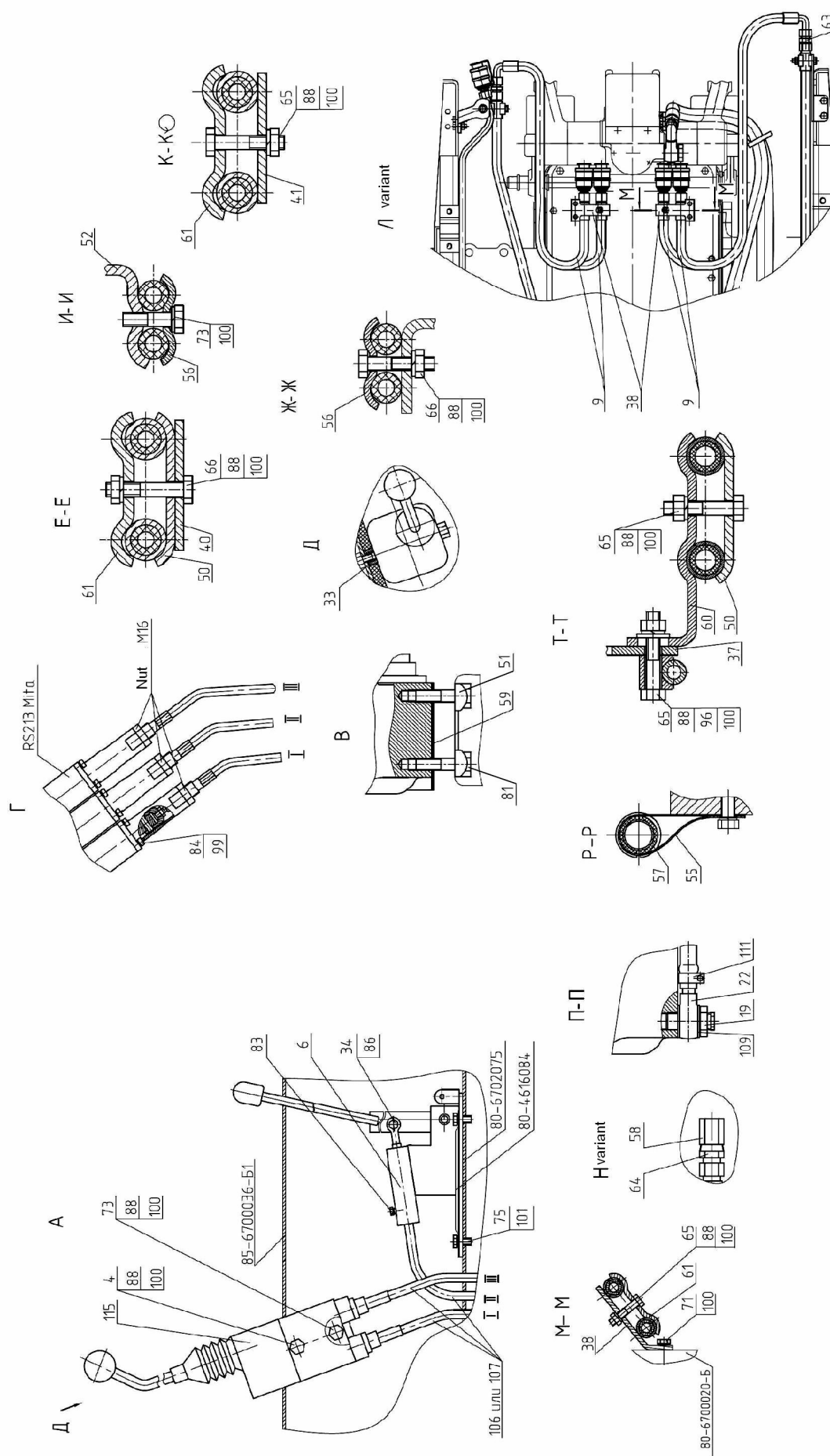


Fig. 46.116. Hydraulic System 920-4600010-01

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.11a, 46.116		920-4600010-01		Hydraulic system
	1	952-4600015-08	1	Hydraulic system housing
	2	P1221-4607070	1	Coupling
	3	K1221-4607125	1	Pipe
	4	952-4607011-A	1	Bolt
	6	C90-4607100-01	1	Control
	7	40-4607037	1	Bolt
	8	680-4607140-03	4	Armoured high-pressure hose Ø 10 x1
	9	680-4607140-06	4	Armoured high-pressure hose Ø 10x1
	14	85-4607034	1	Coupling
	19	80-4607455	1	Bolt
	21	П80-4607120	1	Armoured high-pressure hose Ø 16x2
	22	C80-4607380	1	Pipe
	32	K1221-4607011	1	Hose
	33	952-4607013	2	Bushing
	34	C90-4607026	1	Screw
	35	C90-4607107-B	1	Plate
	37	85-4607431	1	Bracket
	38	85-4607511	2	Bracket
	40	M80-4607014	1	Bracket
	41	M80-4607017	2	Bracket
	42	П80-4607012	1	Hose
	43	П80-4607013	2	Clamp
	44	П80-4607013-01	1	Clamp
	48	80-3723045-01	1	Collar
	50	70-4607156	2	Plate
	51	70-4607168	2	Plate
	52	M80-4607018	1	Bracket
	55	70-1405112	1	Clamp
	56	70-3407146	3	Plate
	57	70-3506027	1	Bushing
	58	A50-4607302	4	Blind plug
	59	50-4608049	1	Gasket
	60	H50-4607137	1	Bracket
	61	40-4607029-A	3	Plate
	63	H.036.02.002	4	Through coupling
	64	H.036.05.002	4	Male pipe adapter
	65	M8-6gx40.88.35.019 GOST 7795-70	4	Bolt
	66	M8-6gx45.88.35.019 GOST 7795-70	2	Bolt
	71	M8-6gx25.88.35.019 GOST 7796-70	2	Bolt
	73	M8-6gx35.88.35.019 GOST 7796-70	4	Bolt
	75	M10-6gx18.88.35.019 GOST 7796-70	4	Bolt
	76	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	79	M12-6gx30.88.35.019 GOST 7796-70	1	Bolt
	81	M14x1,5-6gx45.88.35.019 GOST 7796-70	4	Bolt
	83	M6-6gx14.88.35.019 GOST 7798-70	3	Bolt
	84	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	86	M5-6H.6.019 GOST 5915-70	1	Nut
	87	M6-6H.6.019 GOST 5915-70	2	Nut
	88	M8-6H.6.019 GOST 5915-70	8	Nut

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Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.11a, 46.116	89	M10-6H.6.019 GOST 5915-70	2	Nut
	93	027-032-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	96	C 8.01.019 GOST 6958-78	1	Washer
	99	6T OST 37.001.115-75	8	Washer
	100	8T OST 37.001.115-75	10	Washer
	100.	8T OST 37.001.115-75	6	Washer
	101	10 OT OST 37.001.115-75	6	Washer
	102	12 OT OST 37.001.115-75	1	Washer
	105	M036.50Б.10 or HP10-3MX0041A0	4	Left housing Coupling
	106	132-001	3	Rope
	107	100.M4(35)Г2.01534	3	Rope
	109	4600.20	2	Washer PM1/2
	110	4600.22	2	Washer PM24
	111	5000.02	2	Clamp with worm thread 16-27
	112	5000.04	2	Clamp with worm thread 25-40
	115	575468	1	Joystick PY-1 ТАИС.303654.001-02
		M036.50Б.20 or HP10-4MX0041A0	6	Right housing Male plug
				(delivered as SPTA)

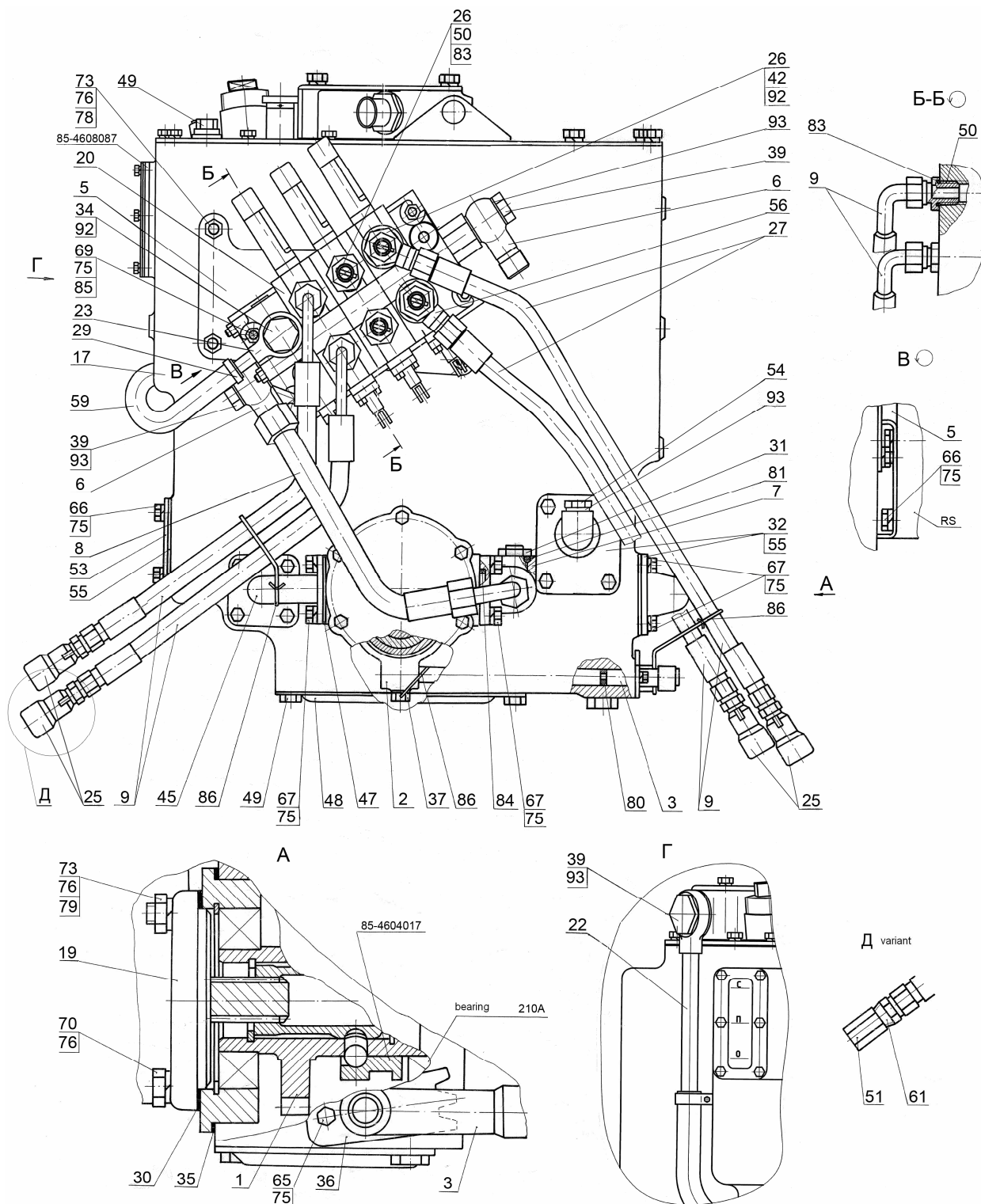


Fig. 46.12. Hydraulic system housing 952-4600015-08

Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.12		952-4600015-08		Hydraulic system housing
	1	85-4604010	1	Pump drive
	2	85-4604030	1	Fork
	3	85-4604040	1	Shaft
	5	920-4607020	1	Bracket
	6	952-4607080	2	Coupling
	7	Д80-4607100	1	Tube
	8	952-4607140-01	1	Armoured high-pressure hose Ø16x2
	9	680-4607140-04	2	Armoured high-pressure hose Ø 10x1
	17	85-4608010	1	Hydraulic system housing
	19	HШ32M-3 or HШ32MA-3 or HШ32M-4 or HШ32УКФ-3	1	Pump
	20	RS-213 Mita	1	Distributor valve
	22	C80-4607375	1	Pipe
	23	C80-4607380	1	Pipe
	25	M036.50Б.10 or HP10-3MX0041A0	4	Left housing Coupling
	26	H.036.12.010	4	Blind plug
	27	ПН.036.83.040	2	Armoured high-pressure hose Ø 10x1
	29	XC-21 or "NORMA" TORRO 16-25/9-C6W	2	Clamp
	30	36-1022054-A	1	Gasket
	31	50-4608027-B	1	Plug
	32	85-3407101	2	Tube
	34	40-4607032	1	Clamp bolt
	35	70-4604037	1	Gasket
	39	40-4607037	3	Bolt
	42	952-4607061	2	Coupling
	45	50-4607096-A	1	Tube
	47	50-4607097	4	Gasket
	48	50-4607099	1	Cover
	49	1221-1802091	3	Thread plug
	50	C80-4607204	4	Coupling
	51	A50-4607302	4	Blind plug
	53	70-4608019	1	Cover
	54	85-4608021	2	Plug
	55	70-4608033	3	Gasket
	56	530-4614029	2	Elbow
	59	C80-4607063	1	Hose
	61	H.036.05.002	4	Male pipe adapter
	65	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	66	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	67	M8-6gx25.88.35.019 GOST 7796-70	20	Bolt
	69	M8-6gx65.88.35.019 GOST 7796-70	4	Bolt
	70	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
	73	M10-6H.6.019 GOST 5915-70	5	Nut
	75	8T OST 37.001.115-75	29	Washer
	76	10 OT OST 37.001.115-75	7	Washer
	78	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	79	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
	80	013-017-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring

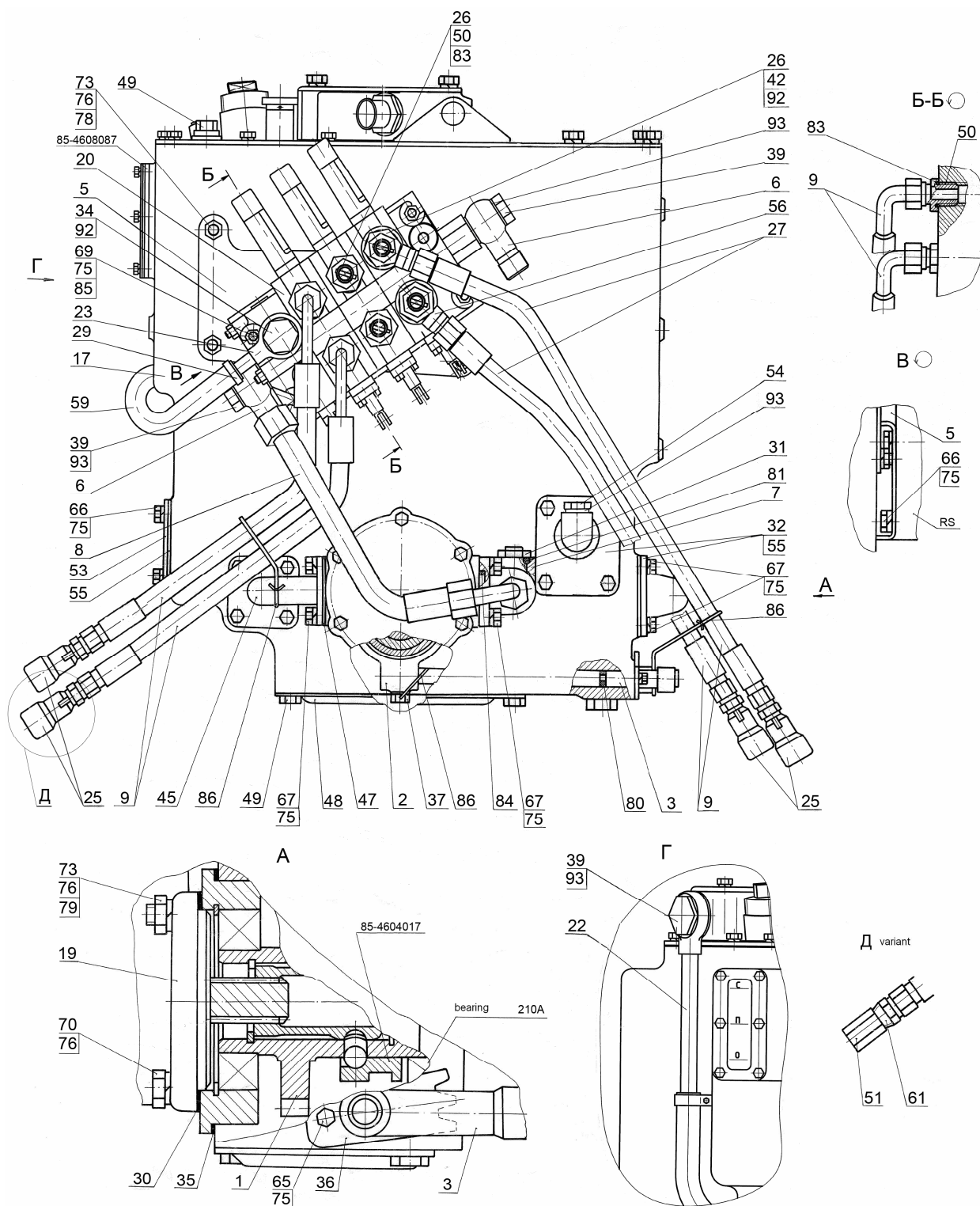


Fig. 46.12. Hydraulic system housing 952-4600015-08

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Group 46. Hydraulic System
Subgroup 4607. Hydraulic Units and Fittings

Fig.No	Pos.No	Designation	Q-ty	Name
46.12	81	017-022-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	83	024-028-25-1-4 GOST 18829-73/GOST 9833-73	4	Ring
	84	035-040-30-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	85	C 8.01.019 GOST 11371-78	4	Washer
	86	1,0-O-C GOST 3282-74	300	Wire
	92	4600.20	6	Washer PM1/2
	93	4600.22	8	Washer PM24

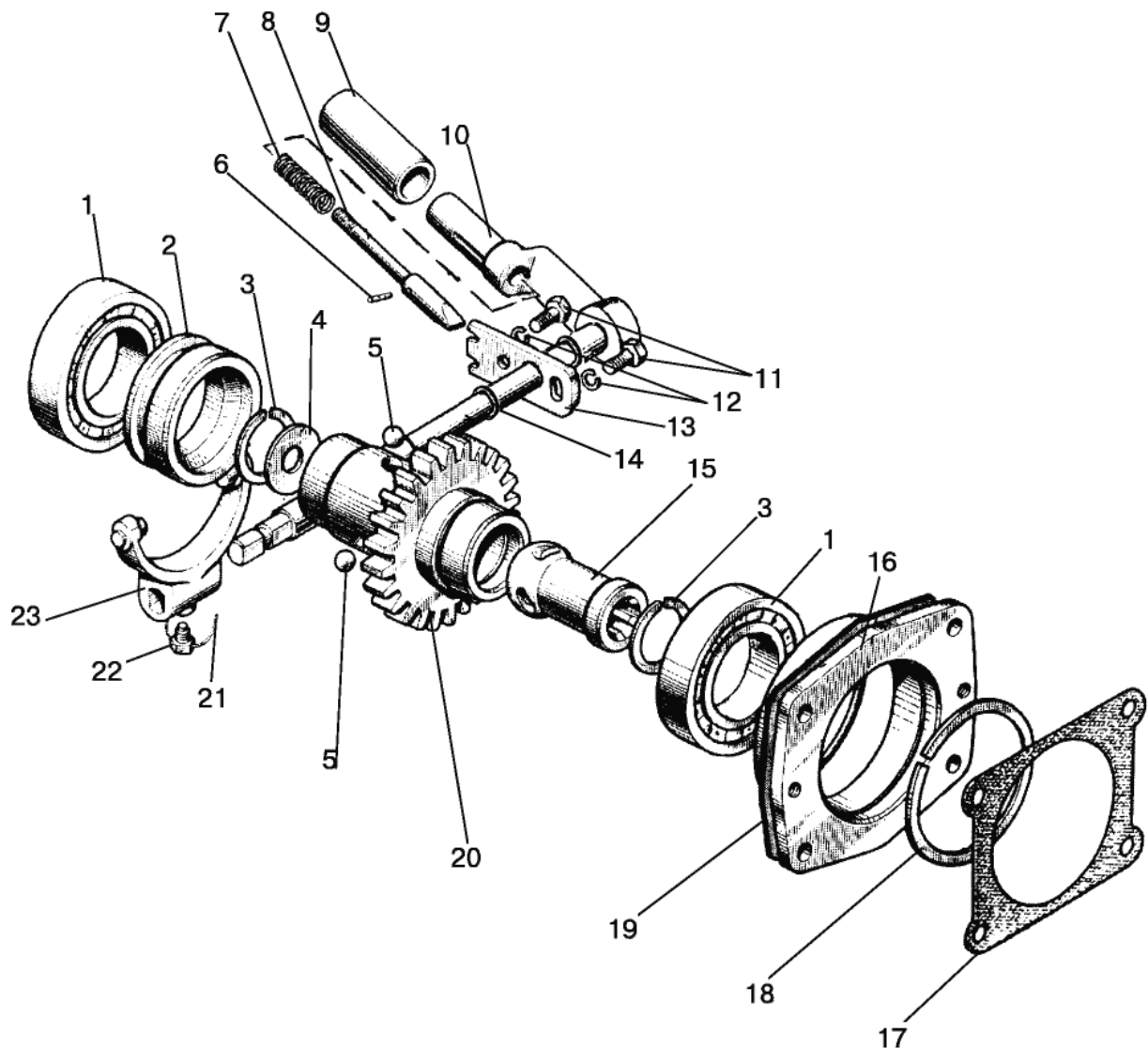


Fig.46.13 Pump Drive

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1220.1/1220.3/1220.4
Group 46. Hydraulic System
Subgroup 4604. Pump Drive

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.13		85-4604010	1	Pump drive (1-5, 11-14, 16-24)
		36-1022070-E	1	Handle (6-10, 15)
	1	210 AYU1 GOST8338-75	2	Bearing
	2	85-4604017	1	Coupling
	3	C40 GOST 13943-86	2	Ring
	4	70-1108179	1	Washer
	5	11,112-100 GOST 3722-81	3	Ball
	6	4C ₃ x16	1	Pin
	7	36-1022074	1	Spring
	8	36-1022073	1	Detent
	9	36-1022072	1	Cage
	10	85-4604040	1	Handle
	11	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	12	8T OST 37.001.115-75	2	Washer
	13	50-4604044	1	Plate
	14	013-017-25-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	15	85-4604012	1	Bushing
	16	50-4604036-A	1	Cage
	17	36-1022054-A	1	Gasket
	18	2C90 GOST 13941-86	1	Ring
	19	70-4604037	1	Gasket
	20	85-4604011	1	Gear
	21	1,0-O-C GOST 3282-74 (150 mm)	1	Wire
	22	50-4604046	1	Bolt
	23	85-4604030	1	Fork

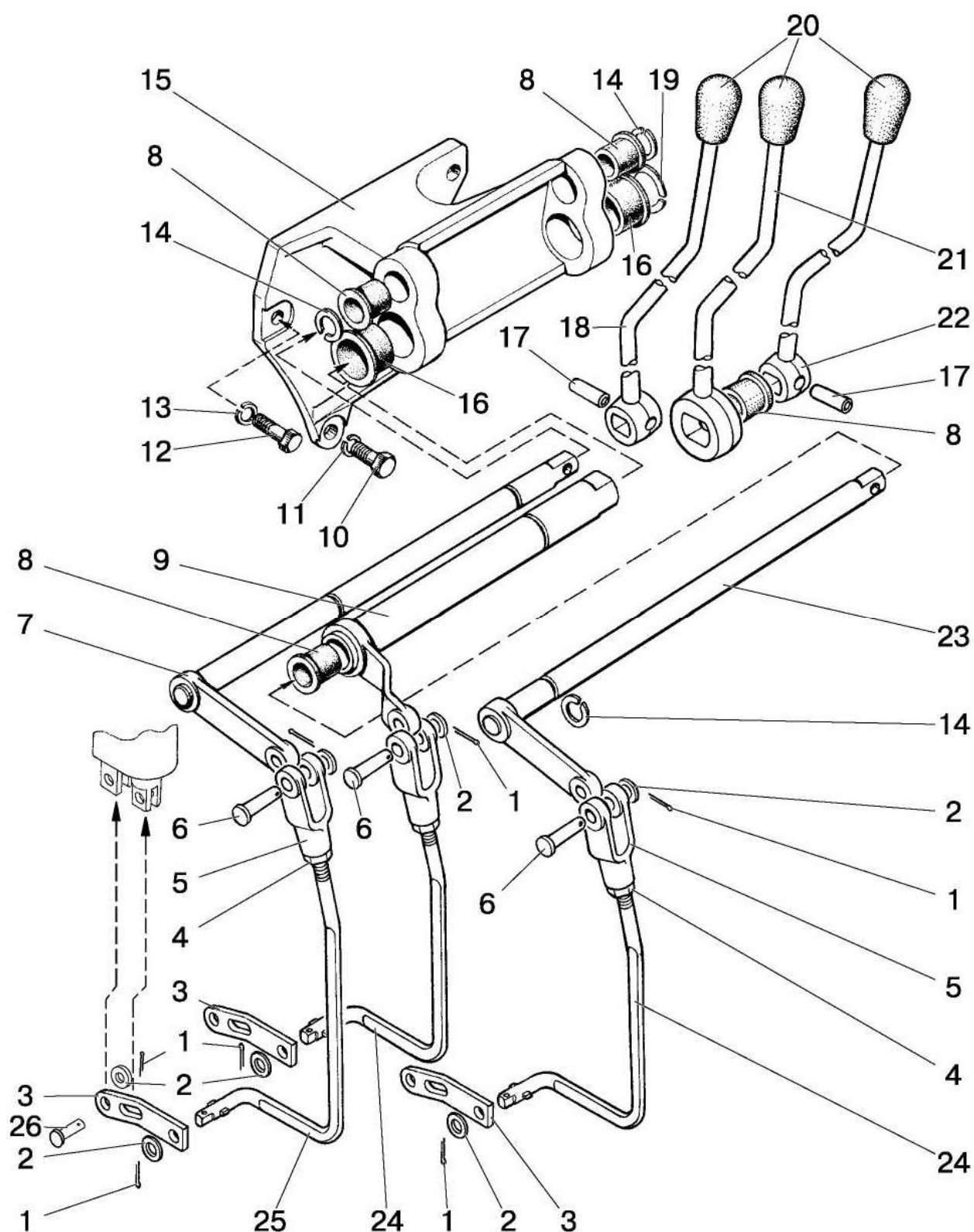


Fig. 46.14. Control of Hydraulic Distributor Valve (ПП70, RS 213 Mita)

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Group 46. Remote-cylinder Hydraulic System
Subgroup 4607. Control of Hydraulic Distributor Valve (ПП70, RS 213 Mita)

Fig.No	Pos.No	Assembly unit or part No	Q-ty		Name
			ПП70	RS	
46.14	1	3,2x18.019 GOST 397-79	6	12	Forelock
	2	70-4607144	6	12	Washer
	3	C80-4607086	-	3	Lever
	4	M8-6H.6.019 GOST 5915-70	3	3	Nut
	5	A20-213A	3	3	Fork
	6	A61-030-A1	3	3	Pin
	7	80-4607250	1	1	Shaft
	8	50-4607078-A	4	4	Bushing
	9	80-4607230	1	1	Shaft
	10	M12-6gx30.88.35.019 GOST 7796-70	2	2	Bolt
	11	12 OT OST 37.001.115-75	2	2	Washer
	12	M10-6gx35.88.35.019 GOST 7796-70	1	1	Bolt
	13	10 OT OST 37.001.115-75	1	1	Washer
	14	C18 GOST 13940-86	3	3	Ring
	15	85-4607017	1	1	Bracket
	16	50-4607079-A1	2	2	Bushing
	17	A.8x30.65F Chemical.Phosphate.Oil impregnated GOST 14229-93	2	2	Pin
	18	C80-4607080-01	1	1	Lever
	19	C32 GOST 13940-86	1	1	Ring
	20	70-3401093	3	3	Lever tip
	21	C80-4607090	1	1	Lever
	22	C80-4607080	1	1	Lever
	23	80-4607220	1	1	Shaft
	24	C80-4607261	-	2	Link
		P1221-4607261	2	-	Link
	25	C80-4607261-01	-	1	Link
		P1221-46007261-01	1	-	Link
	26	C80-4607088	-	6	Pin

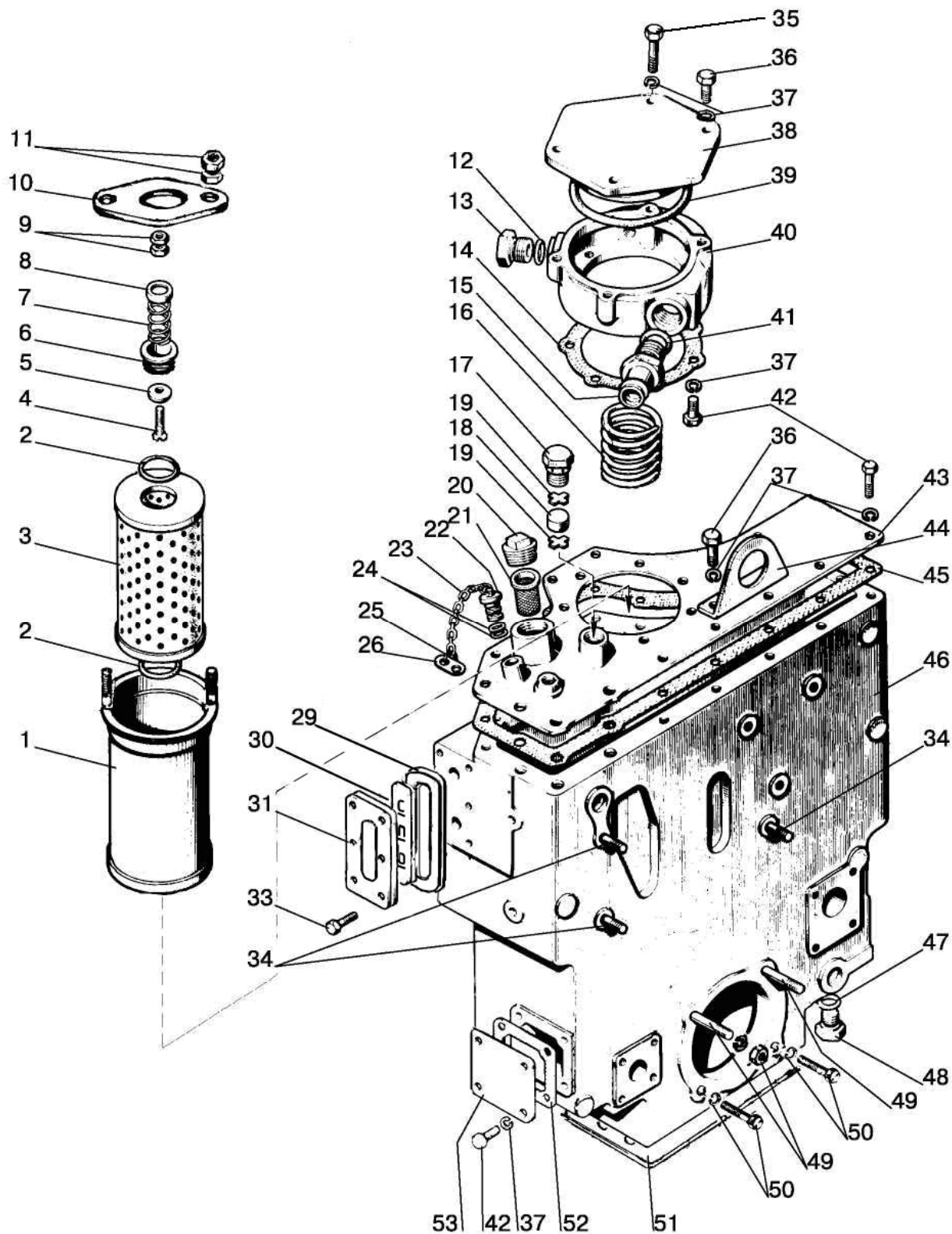


Fig.46.15. Hydraulic System Housing and Filter

Group 46. Hydraulic System
Subgroup 4607. Hydraulic System Housing and Filter

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.15		85-4608010	1	Hydraulic system housing (1-49, 53, 54)
		85-4608090	1	Valve (22-26)
		A28.04.10.000	1	Valve (4-9)
	1	A28.04.20.000-A1	1	Housing
	2	042-050-46-2-4 GOST 18829-73/9833-73	2	Ring
	3	ЭФОМ635-1 or ФЭГ3-25*	1	Filter element Regotmas 635-1
	4	B.M6-6gx40.58.019 GOST 17475-80	1	Screw
	5	8.20.004	1	Valve
	6	A28.04.10.001	1	Valve body
	7	8.20.002	1	Spring
	8	8.20.005	1	Washer
	9	M6-6H.6.019 GOST 5915-70	2	Nut
	10	A28.04.00.001	1	Retainer
	11	M6-6H.6.019 GOST 5915-70	4	Nut
	12	PM 24 or 40-4607033-A	1	Washer
	13	85-4608021	1	Plug
	14	85-4608089	1	Gasket
	15	85-4607034	1	Coupling
	16	85-4608057	1	Spring
	17	50-4608059	1	Breather plug
	18	50-4608063	1	Filter
	19	50-4608062	2	Breather washer
	20	КГ 11/4"	1	Plug
	21	A61-C06-A3	1	Filter
	22	85-4608091	1	Valve
	23	50-1002450	1	Chain
	24	011-015-25-2-4 GOST 18829-73/9833-73	2	Ring
	25	36-1101067	2	Ring
	26	50-3407069	1	Chock
	29	85-4608086-B	1	Seal
	30	85-4608087-B	1	Indicator
	31	85-4608088-B	1	Housing
	33	Bolt M6x20 DIN EN 1665-98	6	Bolt
	34	M10 3p/6gx20.66.019 GOST 22034-76	3	Stud
	35	M8-6gx80.88.35.019 GOST 7795-70	1	Bolt
	36	M8-6gx25.88.35.019 GOST 7796-70	5	Bolt
	37	8T OST 37.001.115-75	30	Washer
	38	85-4608022	1	Cover
	39	130-135-30-1-4 GOST 18829-73/9833-73	1	Ring
	40	85-4608018	1	Cage
	41	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	42	M8-6gx20.88.35.019 GOST 7796-70	23	Bolt
	43	85-4608025	1	Cover
	44	80-4608073	1	Bracket
	45	85-4608031-B	1	Gasket
	46	85-4608016-A	1	Hydraulic system housing
	47	PM 1/2 or 40-4607038-A	1	Washer
	48	70-4607163	1	Plug
	49	M10 3p/6gx35.66.019 GOST 22034-76	2	Stud
		M10-6H.6.019 GOST 5915-70	2	Nut
	50	M10-6gx40.88.35.019 GOST 7796-70	2	Bolt
		10 OT OST 37.001.115-75	4	Washer
	51	50-4608049	1	Gasket
	52	70-4608033	1	Gasket
	53	70-4608019	1	Cover

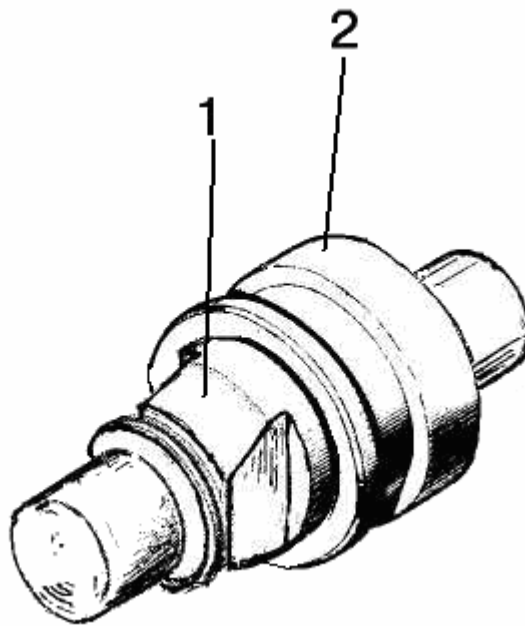


Fig.46.16 Fast coupling

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1220.1/1220.3/1220.4

Subgroup M036.50Б. Fast coupling

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.16	1	M036.50Б.20 or HP10-4MX0041A0	1	Right housing Male plug
	2	M036.50Б.10 or HP10-3MX0041A0	1	Left housing Coupling

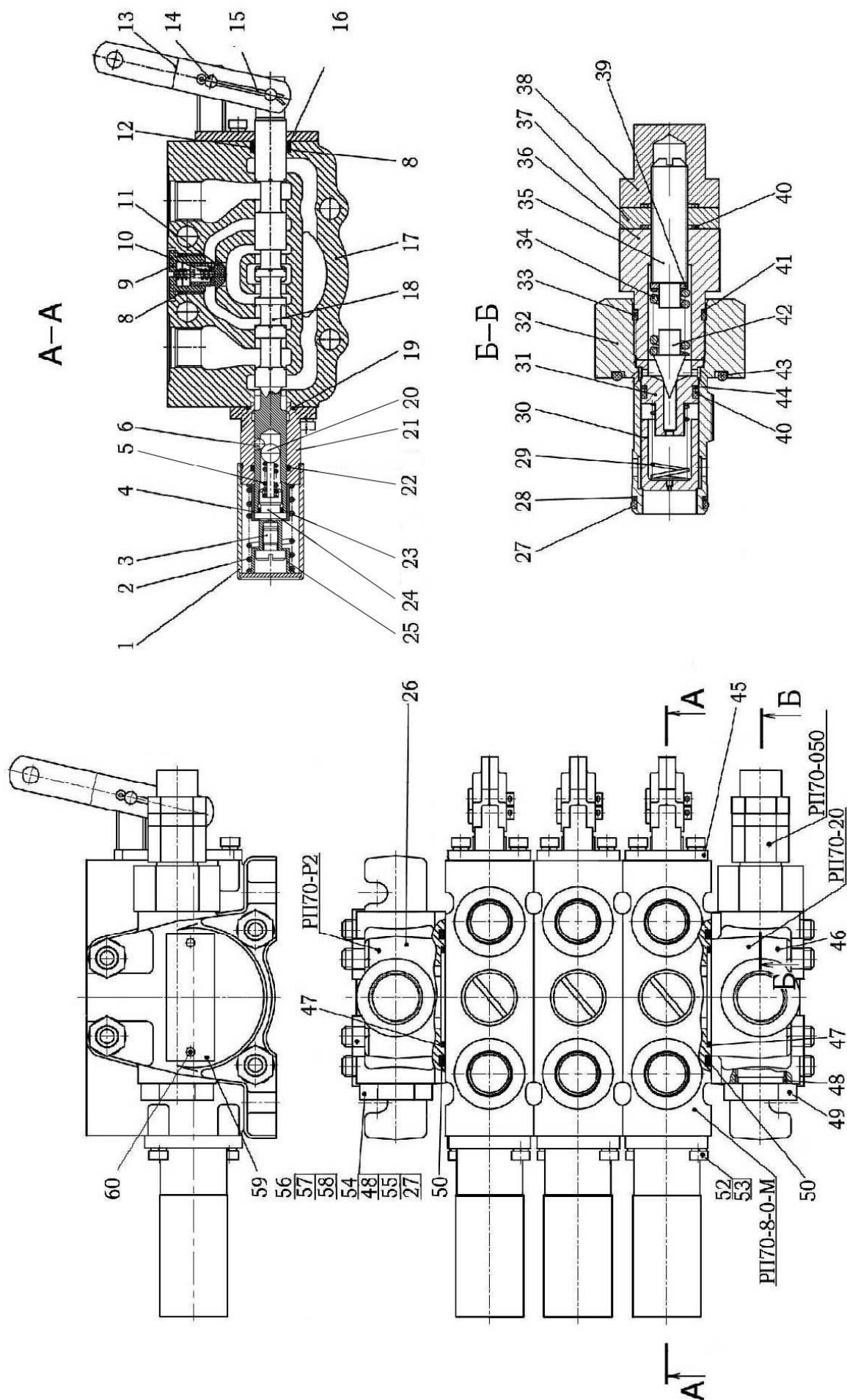


Fig.46.17. Hydraulic Distributor Valve ПП70

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Group 46. Remote-cylinder Hydraulic System
Subgroup ПП70. Hydraulic Distributor Valve ПП70

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.17		ПП70-888-000-MMM-20P2	1	Hydraulic distributor valve
		ПП70-8-0-M	3	Distributor valve section (1-25, 45, 52, 53)
		ПП70-P2	1	Cover (ПП70-080, 26, 47, 50)
		ПП70-20	1	Cover (ПП70-050, 46, 48, 49)
		ПП70-050	1	Safety valve (27-44)
		ПП70-080	1	Blind plug (27, 48, 54, 55)
	1	ПП70-090	1	Pipe
	2	РП-70-034	1	Spring
	3	ПП70-026	1	Screw
	4	ПП70-018-01	1	Tappet
	5	БУ-8/1.01.010 А-01	1	Spring
	6	5,556-100 GOST 3722-81	3	Ball
	8	017-020-19-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	9	ПП70-024	1	Plug
	10	ПП70-027	1	Spring
	11	ПП70-023	1	Regulating valve
	12	ПП70-031	1	Ring
	13	ПП70-042	2	Plate
	14	6x22 OST 37.001.163-75	2	Pin
	15	2x40.019 GOST 397-79	3	Forelock
	16	ПП70-032	1	Ring
	17	ПП70-011	1	Housing
	18	ПП70-013	1	Spool
	19	030-034-25-2-2 GOST 18829-73/GOST 9833-73	1	Ring
	20	9,525-100 GOST 3722-81	1	Ball
	21	ПП70-014	1	Yoke
	22	016-020-25-2-2 GOST 18829-73/GOST9833-73	1	Ring
	23	009-012-19-1-4 GOST 18829-73/GOST 9833-73	1	Ring
	24	ПП70-016	1	Threaded bushing
	25	ПП70-018	1	Tappet
	26	ПП70-012	1	Cover
	27	018-021-19-2-4 GOST18829-73/GOST9833-73	2	Ring
	28	ПП70-058	1	Ring
	29	70-4609037	1	Spring
	30	ПП70-052-Б	1	Valve
	31	ПП70-054	1	Seat
	32	ПП70-051	1	Housing
	33	016-020-25-2-4 GOST 18829-73/GOST 9833-73	1	Ring
	34	МКПВ-16/3Ф-103	1	Spring
	35	ПП70-059	1	Screw
	36	ПП70-053	1	Coupling
	37	ПП70-076	1	Nut
	38	ПП70-057	1	Cap
	39	С 6.01.019 GOST 11371-78	1	Washer
	40	013-016-19-2-2 GOST18829-73/GOST9833-73	3	Ring
	41	ПП70-058-02	1	Ring
	42	МКПВ-16/3Ф-101	1	Needle
	43	028-032-25-2-2 GOST18829-73/GOST9833-73	1	Ring

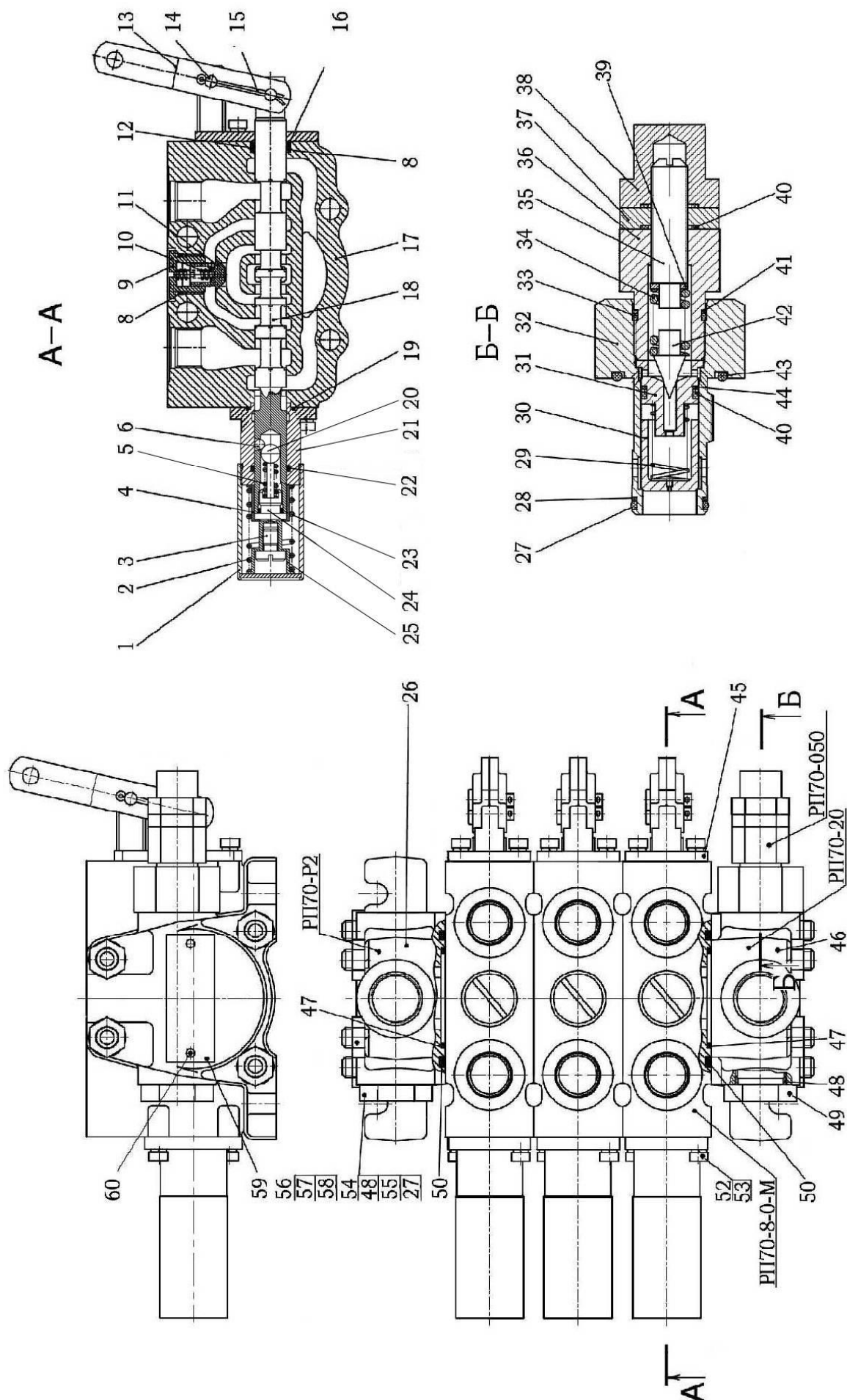


Fig.46.17. Hydraulic Distributor Valve ПП70

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1220.1/1220.3/1220.4

**Group 46. Remote-cylinder Hydraulic System
Subgroup PП70. Hydraulic Distributor Valve PП70**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
46.17	44	PП70-058-01	1	Ring
	45	PП70-074	1	Bracket
	46	PП70-012-01	1	Cover
	47	036-040-25-2-2 GOST 18829-73/GOST 9833-73	2	Ring
	48	Washer PM24	2	Washer
	49	PП70-036	1	Plug
	50	060-066-36-2-2 GOST 18829-73/ GOST9833-73 or 60,00-3,50 SIMRIT 72 NBR 872	2	Ring
	52	B.M6-6gx12.58.019 GOST 17473-80	4	Screw
	53	6T OST 37.001.115-75	4	Washer
	54	PП70-081	1	Blind plug
	55	PП70-058	1	Ring
	56	PП70-037-02	4	Stud
	57	M10-6H.6.019 GOST 5915-70	8	Nut
	58	10 OT OST 37.001.115-75	8	Washer
	59	PП70-038	1	Instruction plate
	60	2x6.01.10кп.05 GOST 10299-80	2	Rivet

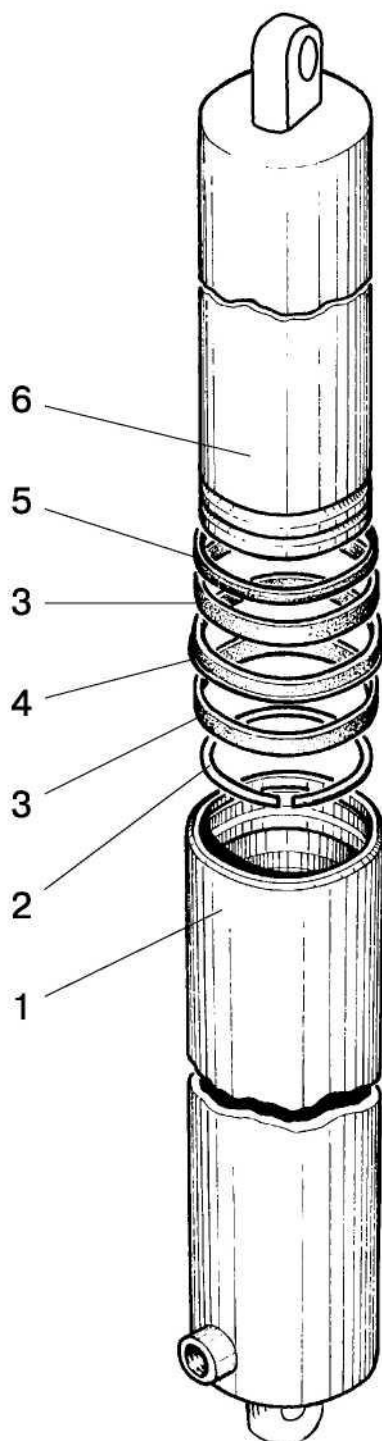


Fig.46.18. Hydraulic Lift Cylinder

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1220.1/1220.3/1220.4

Group 46. Hydraulic System
Subgroup 4625. Hydraulic Lift Cylinder

Fig.No	Pos.No	Designation	Q-ty	Name
46.18		820-4625010-B or (820E-4625010-B)	1	Cylinder assembly (1-6)
	1	820-4625020 (820E-4625020)	1	Cylinder
	2	820-4625015 (820E-4625015)	1	Lock ring
	3	DFI 80-85-9,5 Simrit PF48	2	Guide ring
	4	NI300 80-90-12 T94AU925	1	Collar
	5	AUASOB 80-90-6,1-8,3 T94AU925	1	Scraper
	6	820-4625014-B (820E-4625014-B)	1	Plunger
		820H-4625010-B	1	Cylinder assembly (1-6)
	1	820H-4625020	1	Cylinder
	2	820H-4625015	1	Ring
	3	GR6900800-Z61	2	Guide
	4	LI-CUP RU 2300800 WUAQ3	1	Collar
	5	DA22 WD-2200800 WUAQ3	1	Scraper
	6	820H-4625014-B	1	Plunger

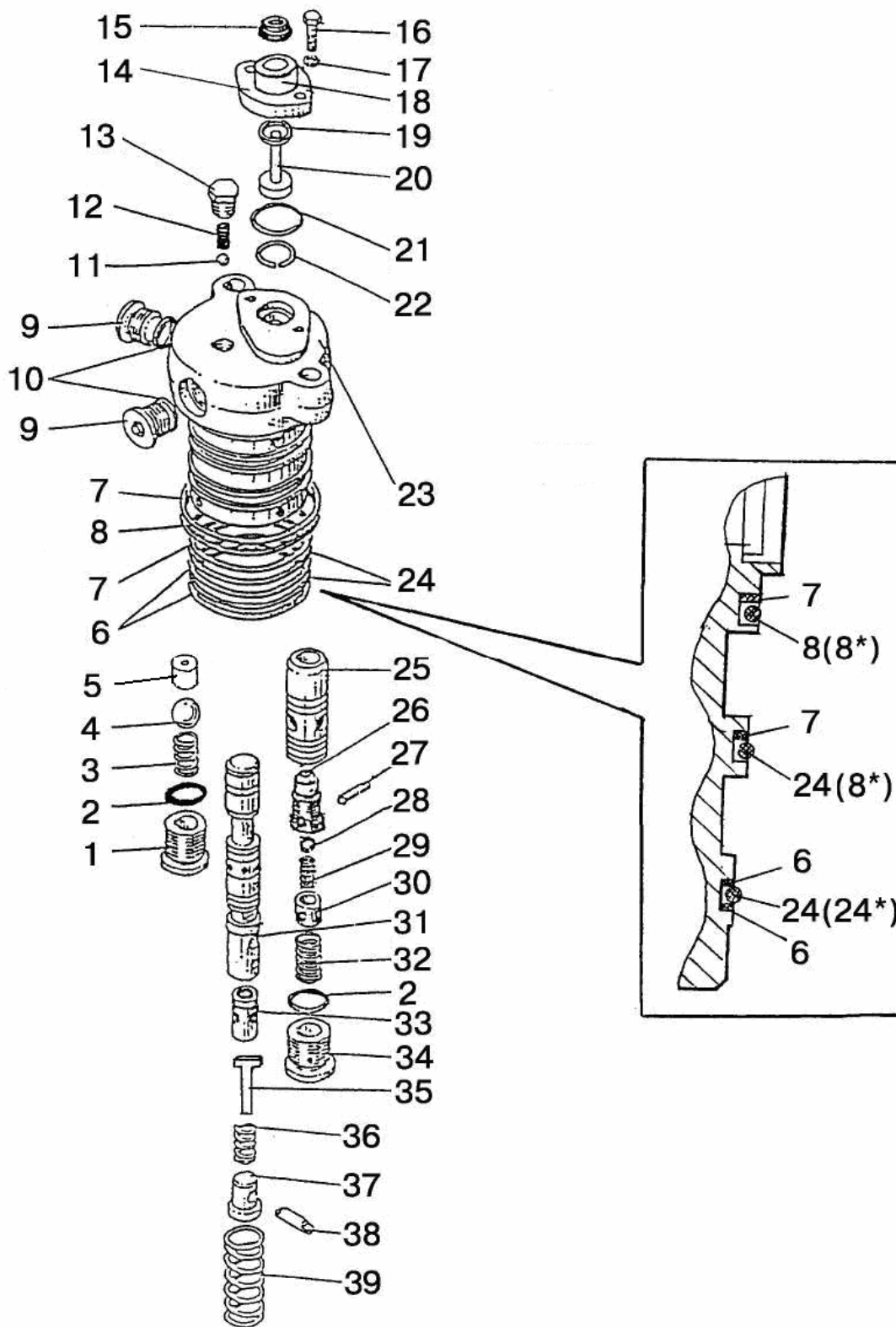


Fig.46.19. Distributor Valve of Hydraulic Lift

Group 46. Hydraulic System
Subgroup 4634. Distributor Valve of Hydraulic Lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.19		820-4634010	1	Distributor Valve
		820-4634020A	1	Valve (25-30)
	1	820-4634021	1	Plug
	2	017-020-19-2-6 GOST 18829-73/9833-73	2	Ring
		or 17,00-2,00 SIMRIT 72 NBR 872	2	Ring
	3	A61-072	1	Spring
	4	14,288-60 GOST 3722-81	1	Ball
	5	820-4634017	1	Seat
	6	820-4634025A	2	Ring
	7	820-4634025-A-01	2	Ring
	8	068-072-25-2-6 GOST 18829-73/9833-73	2	Ring
		or 65,00-2,50 SIMRIT 72 NBR 872	2	Ring
	9	820-4634022	2	Plug
	10	013-016-19-2-6 GOST 18829-73/9833-73	2	Ring
		or 13,00-2,00 SIMRIT 72 NBR 872	2	Ring
	11	6,350-100 GOST 3722-81	1	Ball
	12	80-4614058	1	Spring
	13	КГ 1/8". A12.019 TU 23.1.506-91	1	Plug
	14	820-4634013-E	1	Cover
	15	2-10 GOST 24811-81	1	Scraper
	16	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	17	6T OST 37.001.115-75	2	Washer
	18	820-4634039	1	Bushing
	19	010-014-25-2-2 GOST 18829-73/9833-73	1	Ring
	20	820-4634038	1	Pusher
	21	021-024-19-2-6 GOST 18829-73/9833-73	1	Ring
		or 21,00-2,00 SIMRIT 72 NBR 872	1	Ring
	22	820-4634036	1	Lock ring
	23	820-46340111	1	Housing
	24	064-068-25-2-6 GOST 18829-73/9833-73	2	Ring
		or 63,00-2,50 SIMRIT 72 NBR 872	1	Ring
	25	820-4634014	1	Valve
	26	820-4634018-E	1	Seat
	27	2.3x14 GOST 3128-70	1	Pin
	28	5,556-60 GOST 3722-81	1	Ball
	29	P75-B3BP-082	1	Spring
	30	820-4634033	1	Thrust
	31	820-4634012	1	Spool
	32	820-4634024	1	Spring
	33	820-4634026-E	1	Valve
	34	820-4634019	1	Plug
	35	820-4634037	1	Thrust
	36	820-4634028	1	Spring
	37	820-4634029	1	Thrust
	38	820-4634027	1	Pin
	39	820-4634016	1	Spring

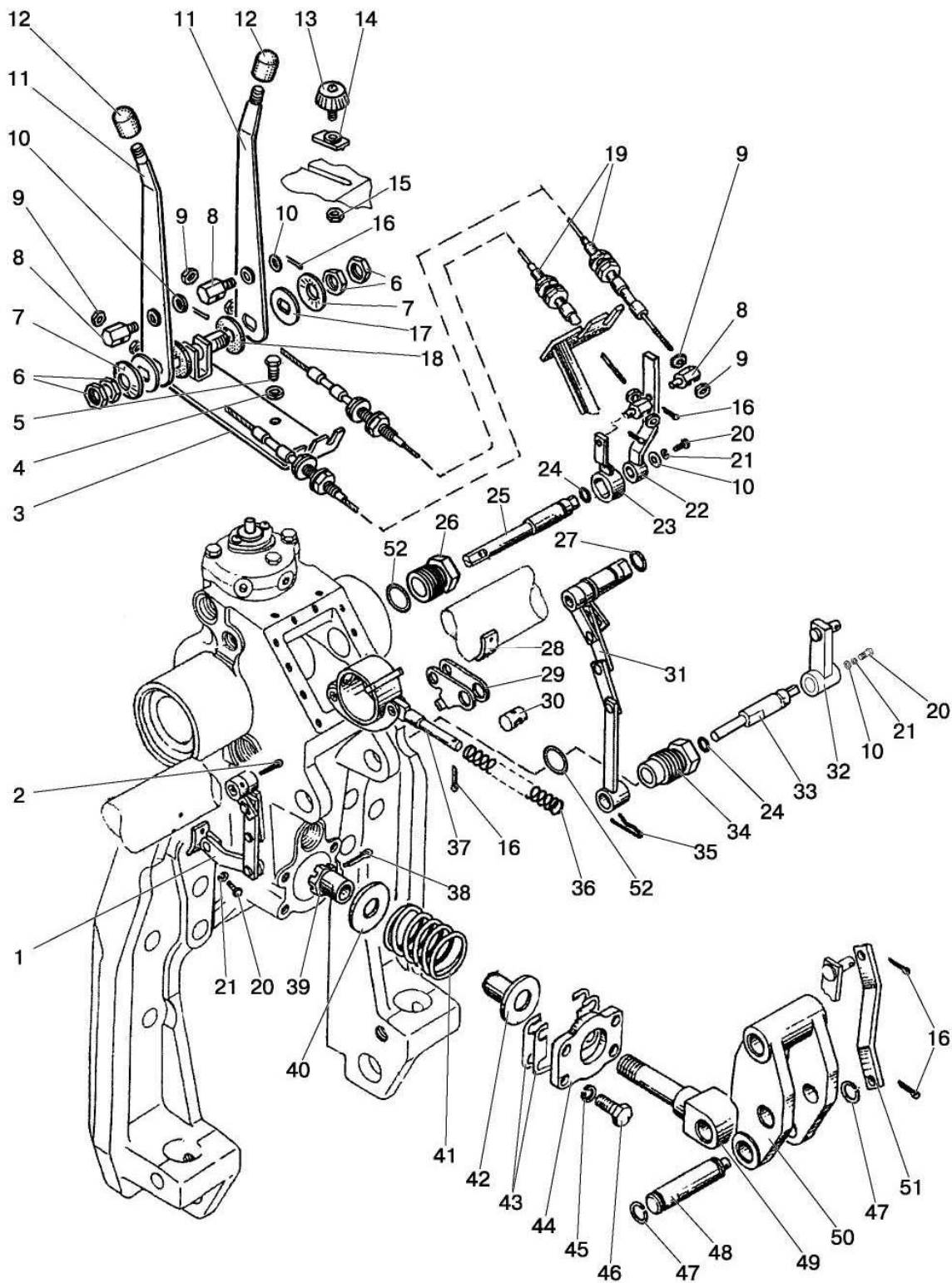


Fig.46.20. Control of Hydraulic Lift

Group 46. Hydraulic System
Subgroup 4635. Control of Hydraulic Lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.20		820-4635005	1	Hydraulic lift (3-19;1221-4635010)
		1221-4635010	1	Hydraulic lift (1, 2, 10, 20-52; Fig. 46.20 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-B	1	Bracket (3, 6, 7, 11, 17)
	1	820-4635025	1	Position stage
	2	3,2x25.019 GOST 397-79	1	Forelock
	3	820-4635095-B	1	Bracket
	4	8T OST 37.001.115-75	4	Washer
	5	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	6	M14x1,5-6H.6.019 GOST 5915-70	4	Nut
	7	80B-1108347	2	Disk spring
	8	80B-1108317	4	Lug
	9	M6-6H.6.019 GOST 5915-70	8	Nut
	10	C 6.01.019 GOST 6958-78	4	Washer
	11	820-4635100-B	2	Lever
	12	A13.11.000	2	Handle
	13	80-4616070	1	Screw
	14	820-4635082	1	Thrust
	15	M6-6H.019 TU 23.1.505-91	1	Nut
	16	3,2x18.019 GOST 397-79	7	Forelock
	17	80-1108028	2	Washer
	18	80-1108178	2	Friction washer
	19	100.M4322.00900 or 23.588.1.1.2.00.01-01 or 772-L-TT-75-900	2	Remote control rope
	20	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	21	6T OST 37.001.115-75	6	Washer
	22	820-4635080	1	Lever
	23	820-4635075	1	Lever
	24	011-015-25-2-4 GOST 18829-73/9833-73	2	Ring
	25	820-4635034	1	Shaft
	26	820-4635033-B	1	Bushing
	27	019-023-25-2-4 GOST 18829-73/9833-73	1	Ring
	28	820-4635046	1	Joke
	29	820-4635070	1	Lever
	30	820-4635069	1	Detent
	31	820-4635030	1	Force stage
	32	820-4635015-B	1	Lever
	33	820-4635016-B	1	Shaft
	34	820-4635032-B	1	Bushing
	35	820-4635049	1	Forelock
	36	820-4635063	1	Spring
	37	820-4635065	1	Bracket
	38	4x22.019 GOST 397-79	1	Forelock
	39	820-4635024	1	Nut
	40	820-4635023	1	Washer
	41	820-4635022	1	Spring
	42	820-4635026-B	1	Bushing
	43	820-4635044-B	4	Gasket
	44	820-4635043-B	1	Cover
	45	12 OT OST 37.001.115-75	4	Washer

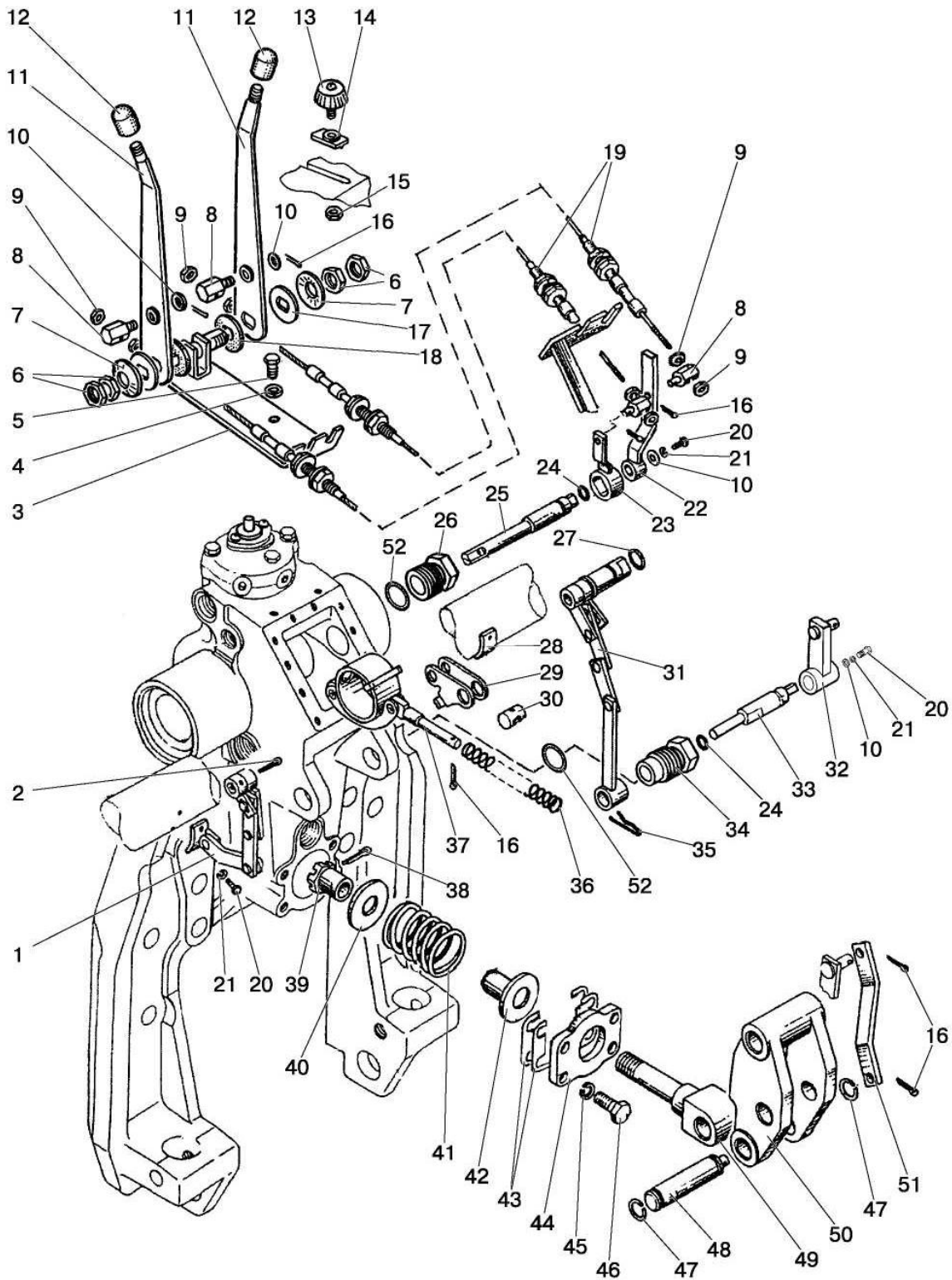


Fig.46.20. Control of Hydraulic Lift

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1220.1/1220.3/1220.4

Group 46. Hydraulic System
Subgroup 4635. Control of Hydraulic Lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.20	46	M12-6gx30.88.35.019 GOST 7796-70	4	Bolt
	47	C22 GOST 13940-86	2	Ring
	48	820-4635018	1	Pin
	49	820-4635021	1	Push rod
	50	820-4635019	1	Clip
	51	820-4635048	1	Rod
	52	027-032-30-1-4 GOST 18829-73/9833-73	2	Ring

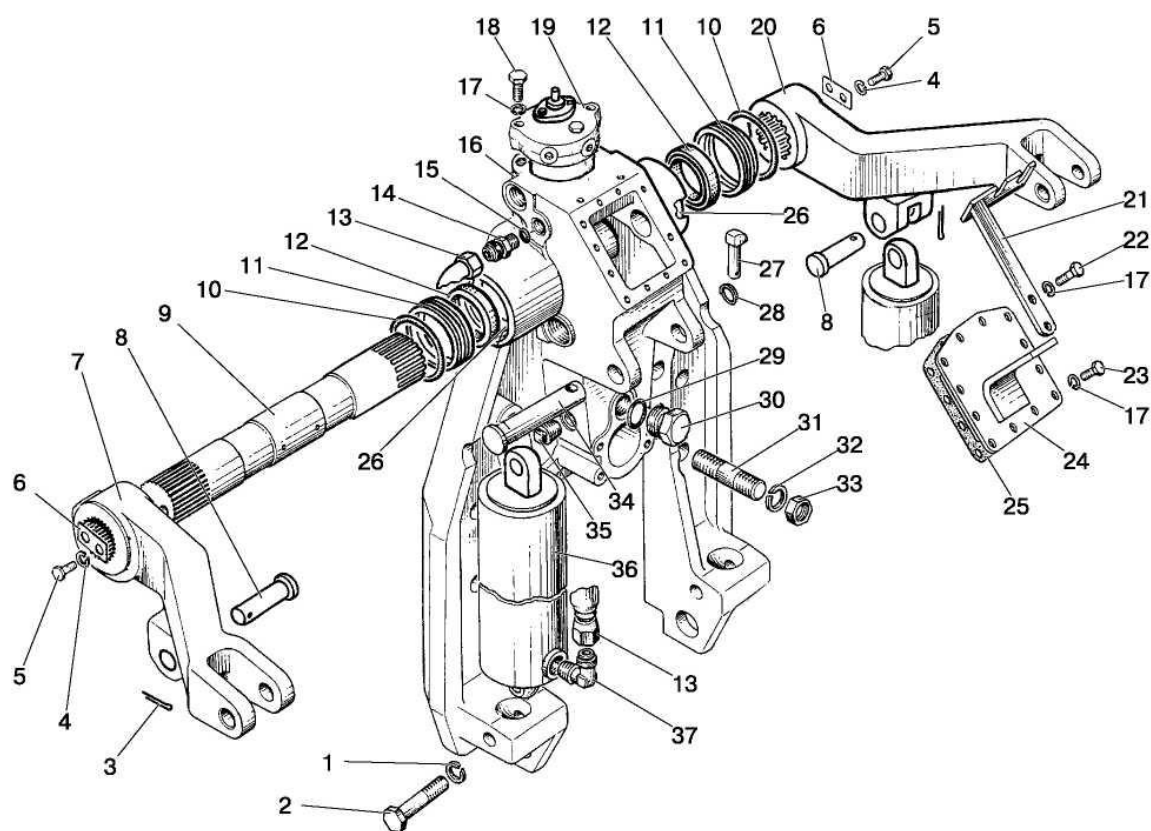
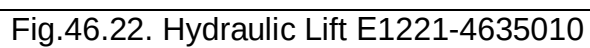


Fig.46.21. Hydraulic Lift

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Group 46. Hydraulic System
Subgroup 4635. Hydraulic Lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.21	1	16 OT OST 37.001.115-75	2	Washer
	2	M16-6gx75.88.35.019 GOST 7795-70	2	Bolt
	3	5x36.019 GOST 397-79	2	Forelock
	4	12 OT OST 37.001.115-75	4	Washer
	5	M12-6gx30.88.35.019 GOST 7796-70	4	Bolt
	6	40-4605023-A2	2	Washer
	7	1221-4635013	1	Left lever
	8	1221-4635016	2	Pin
	9	1221-4635014	1	Shaft
	10	079-085-36-2-2 GOST 18829-73/9833-73	2	Ring
	11	820-4635091	2	Cage
	12	BABSL 60-72-7 SIMRIT 72 NBR 902	2	Collar
	13	820-4635115-01	2	Armoured high-pressure hose Ø 10x1
	14	820-4635083	2	Coupling
	15	012-015-19-2-4 GOST 18829-73/9833-73	2	Ring
	16	1221-4635011	1	Housing
	17	8T OST 37.001.115-75	14	Washer
	18	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	19	820-4634010	1	Distributor valve
	20	1221-4635012	1	Right lever
	21	820-4635085	1	Bracket
	22	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	23	M8-6gx20.88.35.019 GOST 7796-70	10	Bolt
	24	820-4635125	1	Cover
	25	820-4635039	1	Gasket
	26	820-4635088	4	Bushing
	27	A61.05.005	1	Chock
	28	A61.05.004	1	Ring
	29	027-032-30-1-4 GOST 18829-73/9833-73	1	Ring
	30	80-4608021	1	Blind plug
	31	1321-2707068-01	4	Stud
	32	20 OT OST 37.001.115-75	4	Washer
	33	M20-6H.6.019 GOST 5915-70	4	Nut
	34	A61.10.001	1	Pin
	35	ПК КГ 3/8"	1	Plug
	36	820-4625010-Б or 820H-4625010-Б 820E-4625010-Б	2	Cylinder
	37	820-4635084	2	Elbow



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Group 46. Hydraulic System
Subgroup 4635. Hydraulic Lift

Fig.No	Pos.No	Designation	Q-ty	Name
46.22		E1221-4635010	1	Hydraulic lift
	1	16 OT OST 37.001.115-75	2	Washer
	2	M16-6gx75.88.35.019 GOST 7795-70	2	Bolt
	3	5x36.019 GOST 397-79	3	Forelock
	4	12 OT OST 37.001.115-75	8	Washer
	5	M12-6gx30.88.35.019 GOST 7796-70	8	Bolt
	6	40-4605023-A2	2	Washer
	7	1221-4635013	1	Left lever
	8	1221-4635016	2	Pin
	9	1221-4635014	1	Shaft
	10	E1221-4605341	1	Cam
	11	6T OST 37.001.115-75	2	Washer
	12	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	13	70-4605032	2	Bushing
	14	1.3.LI9.xp GOST19853-74	2	Oiler
	15	E1221-4635011	1	Housing
	16	1221-4635012	1	Right lever
	17	M8-6gx20.88.35.019 GOST 7796-70	7	Bolt
	18	8T OST 37.001.115-75	7	Washer
	19	E1221-4635125	1	Cover
	20	A61.05.005	1	Chock
	21	A61.05.004	1	Ring
	22	A61.10.001	1	Pin
	23	820-4625010-B or 820H-4625010-B 820E-4625010-B	2	Cylinder
	24	50-3405053	1	High nut
	25	820-4635043-B	1	Cover
	26	2B22.019 GOST 13940-86	2	Ring
	27	820-4635018	1	Pin
	28	E1221-4635021	1	Push rod
	29	820-4635019	1	Clip

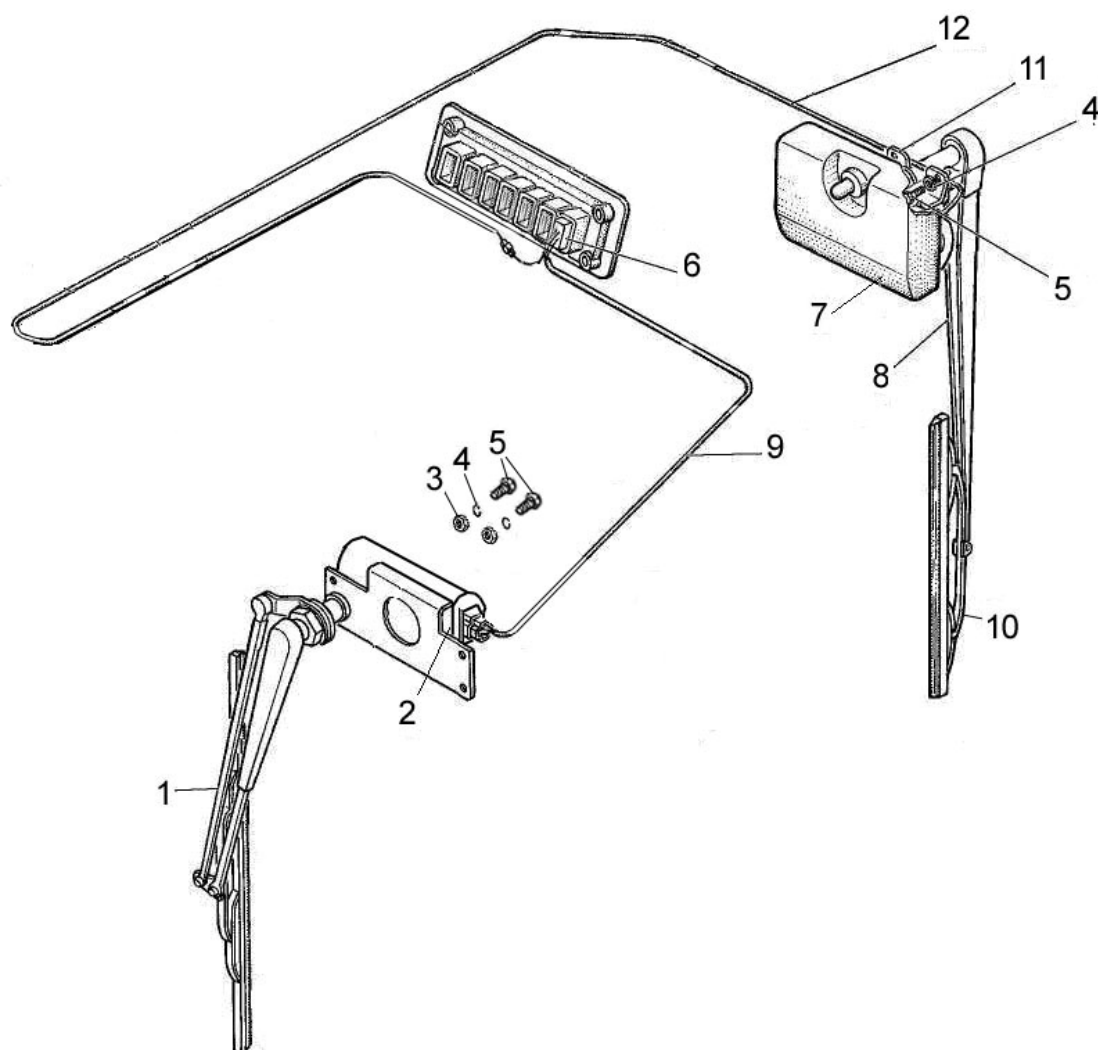
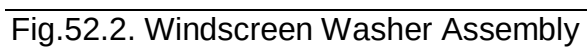


Fig.52.1 Windscreen Wiper assembly

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Group 52. Windscreen Wipers
Subgroup 5205. Windscreen Wipers

№ fig.	Pos.No	Assembly unit or part No	Q-ty	Name
52.1		80-5205050-Б		Windscreen wiper assembly
	1	5205.25	1	Brush with lever 660/600
	2	5205.10	1	Parallel-motion windscreen wiper
	3	C6.01.019 GOST 11371-78	4	Nut
	4	6T OST 37.001.115-75	6	Washer
	5	M6-6gx16.88.35.019 GOST 7798-70	6	Bolt
	6	3709.25	1	Windscreen wiper switch
	7	5205.20	1	Windscreen wiper
	8	5205.265	1	Windscreen wiper lever 420.1
	9	80B-3724010	1	Cord
	10	5205.65	1	Windscreen wiper brush 450
	11	80-5205031	1	Bracket
	12	80B-3724310-14	1	Wire



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1220.1/1220.3/1220.4

**Group 52 Windscreen Wipers
Subgroup 5208. Windscreen Washer**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
52.2		1021.4M-5208010		Windscreen washer assembly
	1	70-3723042-01	1	Bushing
	2	80-3723045-01	1	Collar
	3	80-5208011-A	1	Flange
	4	923-5208002-02	1	Pipe
	5	952-5208001	1	Bracket
	8	B.M4-6gx12.58.019 GOST 17473-80	2	Screw
	9	B.M6-6gx12.58.019 GOST 17473-80	2	Screw
	10	M4-6H.6.019 GOST 5927-70	2	Nut
	11	M8-6H.6.019 GOST 5915-70	2	Nut
	12	C 4.01.019 GOST 11371-78	2	Washer
	13	4 OST 37.001.115-75	2	Washer
	14	6T OST 37.001.115-75	2	Washer
	15	8T OST 37.001.115-75	2	Washer
	16	5208.10	1	Fuel jet
	17	5208.30	1	Bracket
	18	122.5208 000	1	Electrical washer

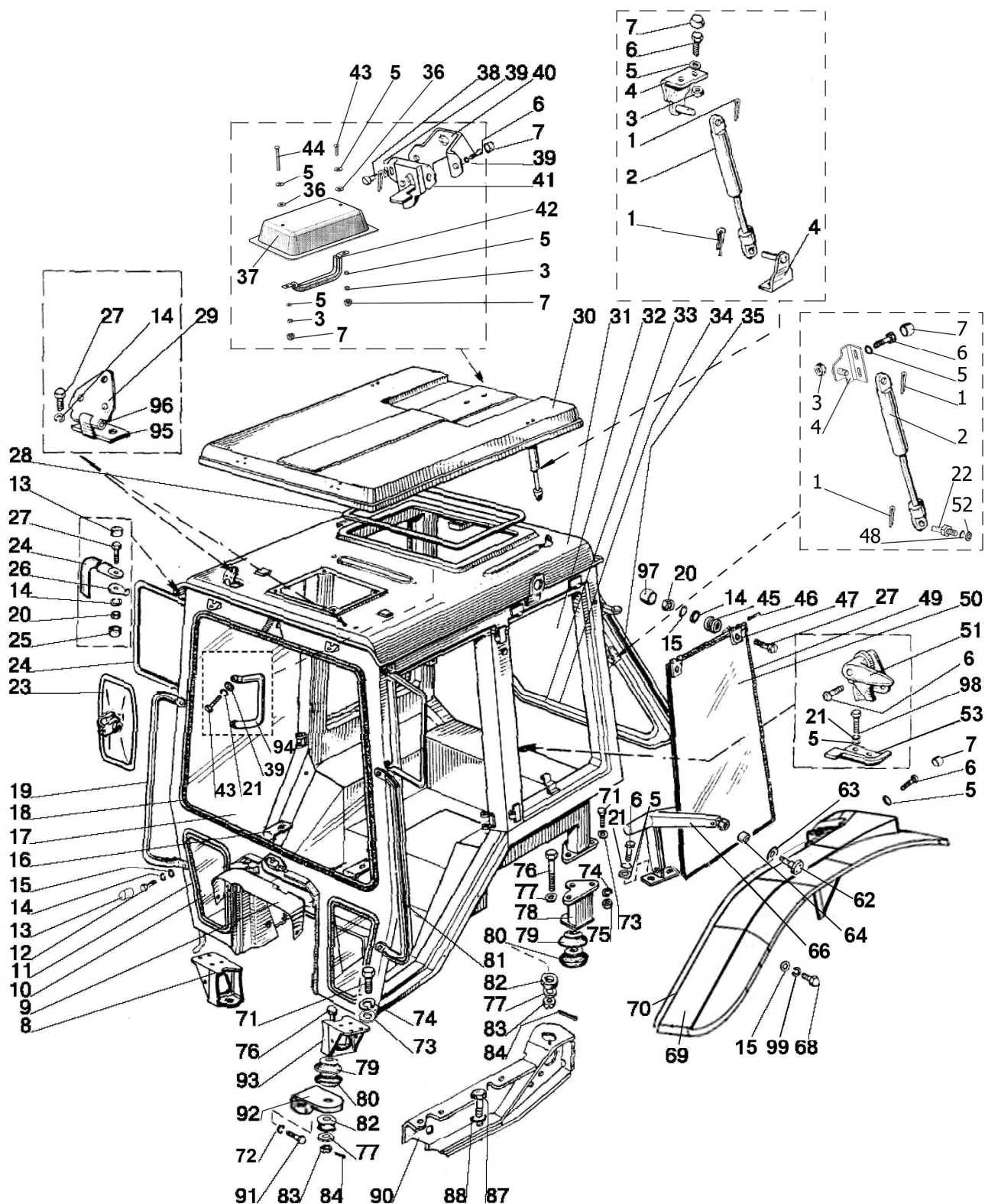


Fig. 67.1. Tractor Cabin

Group 67. Tractor Cabin
Subgroup 6700. Tractor Cabin

Fig.No	Pos.No	Designation	Q-ty	Name
67.1		1221-6700010	1	Cabin assembly
		80-6708210	1	Rear frame (32-35)
		80-6708900-01	2	Glass assembly (13, 14, 19, 24, 45, 47-50)
	1	3,2x18.019 GOST 397-79	8	Forelock
	2	6700.01	4	Pneumatic lift
	3	M6-6H.6.019 GOST 5915-70	22	Nut
	4	80-6708225	6	Bracket
	5	C 6.01.019 GOST 11371-78	32	Washer
	6	M6-6gx20.88.35.019 GOST 7798-70	30	Bolt
	7	A30.04.017	8	Cap
	8	80-6700031-B-01	1	Right bracket
	9	85-6703056	1	Insert
	10	80-6703012-A or 80-6703012-A1	2	Glass
	11	A37.08.043 or A37.08.043-01	2	Seal
	12	M8-6gx20.88.35.019 GOST 7796-70	4	Bolt
	13	A30.04.017-01	4	Cap
	14	8T OST 37.001.115-75	24	Washer
	15	C 8.01.019 GOST 11371-78	22	Washer
	16	80-3805030	2	Bracket
	17	80-6703011-A or 80-6703011-A1	1	Glass
	18	80-6700018	1	Seal L=4200 mm
	19	80-6703112-A	1	Right handrail
	20	M8-6H.6.019 GOST 5915-70	8	Nut
	21	6T OST 37.001.115-75	8	Washer
	22	85-6701033	2	Pin
	23	80-8201050	2	Mirror
	24	80-8201106-B	2	Pipe
	25	A30.04.017-02	4	Cap
	26	80-8201107	4	Washer
	27	M8-6gx30.88.35.019 GOST 7796-70	8	Bolt
	28	A37.08.045	1	Seal
	29	80-6707010-B	2	Hinge
	30	80-6707025/-01/-02 (see fig.67.1) or Д82-6707025/-01 (see fig.67.3,67.4)	1	Roof assembly
	31	1221-6700020	1	Cabin (fabricated frame)
	32	80-6708211-A or 80-6708211-A1	1	Glass
	33	80-6708215	1	Frame
	34	A34.08.043-05	1	Seal
	35	80-6700021-01/-02	1	Seal
	36	549A-1305044	2	Ring
	37	80-6707082 ¹⁾	1	Facing
	38	B.M6-6gx12.58.019 GOST 17473-80	2	Screw
	39	C 6.01.019 GOST 6958-78	10	Washer
	40	80-6707075 ¹⁾	1	Bracket
	41	A37.09.010	1	Latch
	42	80-6707080	1	Handrail
	43	B.M6-6gx20.58.019 GOST 17473-80	3	Screw
	44	B.M5-6gx50.58.019 GOST 17473-80	1	Screw
	45	80-6708903	4	Bushing
	46	8x65 OST 37.001.163-75	4	Pin
	47	80-6708902	4	Hinge

¹⁾ For roof 80-6707025/-01

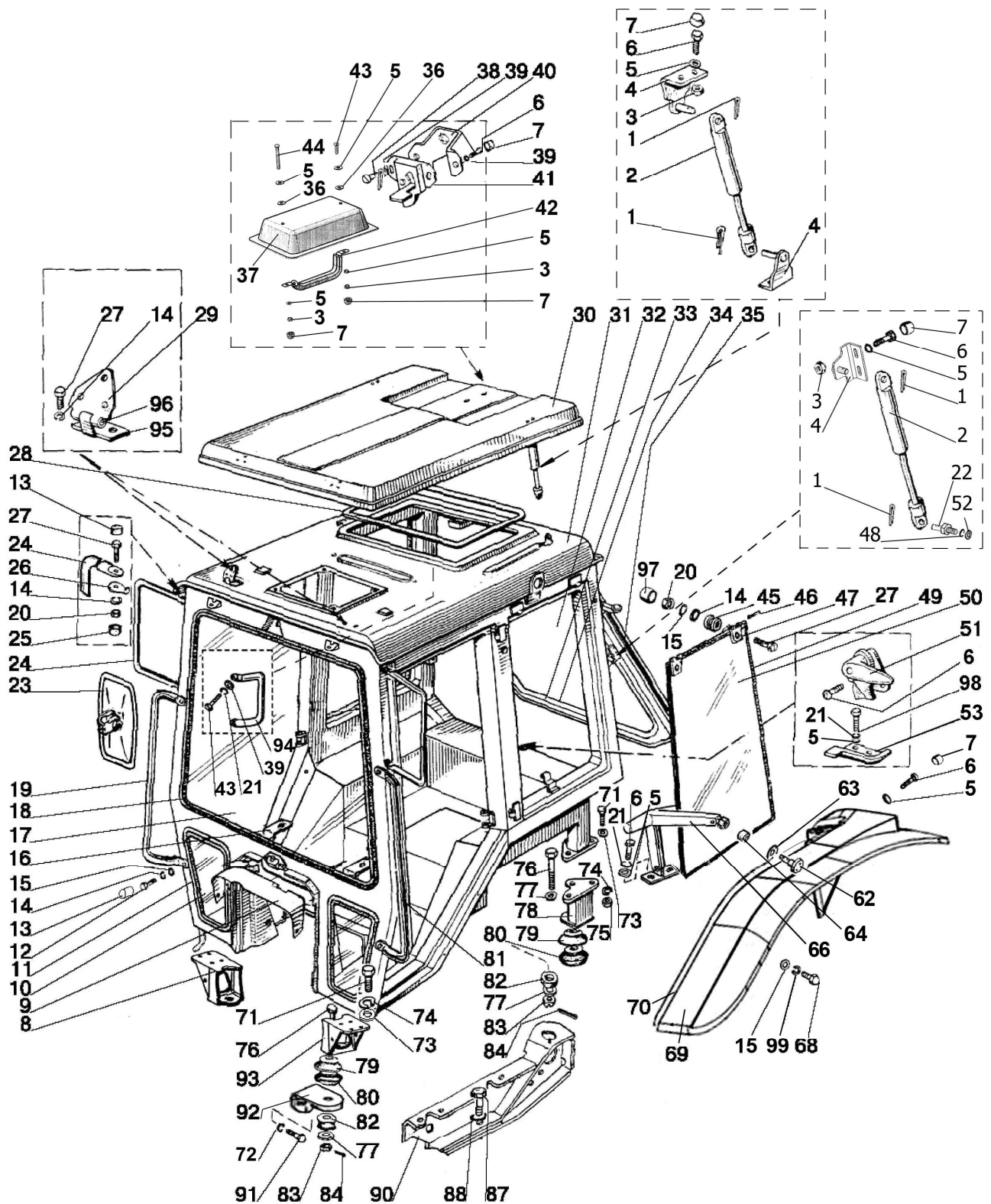


Fig. 67.1. Tractor Cabin

BELARUS
1220.1/1220.3/1220.4

Group 67. Tractor Cabin
Subgroup 6700. Tractor Cabin. Rear Wings

Fig.No	Pos.No	Designation	Q-ty	Name
67.1	48	10 OT OST 37.001.115-75	2	Washer
	49	F-202	2	Seal
	50	1221-6708901-A or 1221-6708901-A1	2	Glass
	51	A37.05.025	1	Detent
	52	C10.01.019 GOST 6958-78	2	Washer
	53	A37.05.021-B	1	Bracket
	62	80-6708975	2	Screw
	63	80-6708904	2	Gasket
	64	A37.01.041	2	Bushing
	66	80-6708970	2	Handle
	68	M8-6gx20.88.35.019 GOST 7796-70	18	Bolt
	69	Д82-8404020-A1 or Д82-8404020-A or Л82-8404011	1	Wing (left)
		Д82-8404020-A1-01 or Д82-8404020-A-01 or Л82-8404011-01	1	Wing (right)
	70	80-8404013-B	2	Seal
	71	M12-6gx35.88.35.019 GOST 7796-70	14	Bolt
	72	16 OT OST 37.001.115-75	6	Washer
	73	C 12.01.019 GOST 11371-78	6	Washer
	74	12 OT OST 37.001.115-75	14	Washer
	75	M12-6H.6.019 GOST 5915-70	14	Nut
	76	80-6700029	4	Bolt
	77	C 16.01.019 GOST 11371-78	12	Washer
	78	1221-6700035	1	Left support
		1221-6700035-01	1	Right support
	79	80-6700163	4	Yoke
	80	80-6700160	4	Vibroisolator
	81	80-6703112-A	1	Left handrail
	82	130-5001364-B	4	Cushion
	83	M16-6H.6.019 GOST 5918-73	4	Nut
	84	4x36.019 GOST 397-79	4	Forelock
	87	1221-6702301 or M20-6gx70.88.35.019 GOST 7796-70	4	Bolt
	88	20 OT OST 37.001.115-75	4	Washer
	90	1221-6702300	1	Left bracket
		1221-6702300-01	1	Right bracket
	91	M16-6gx45.88.35.019 GOST 7796-70	6	Bolt
	92	85-6702068	2	Left, right bracket
	93	80-6700031-B	1	Left bracket
	94	80-6708209	1	Handle
	95	80-6707013	2	Hinge
	96	70-6708189	2	Axis
	97	A30.04.017-02	4	Cap
	98	M6-6gx14.88.35.019 GOST 7798-70	2	Bolt
	99	8Л OST 37.001.115-75	20	Washer

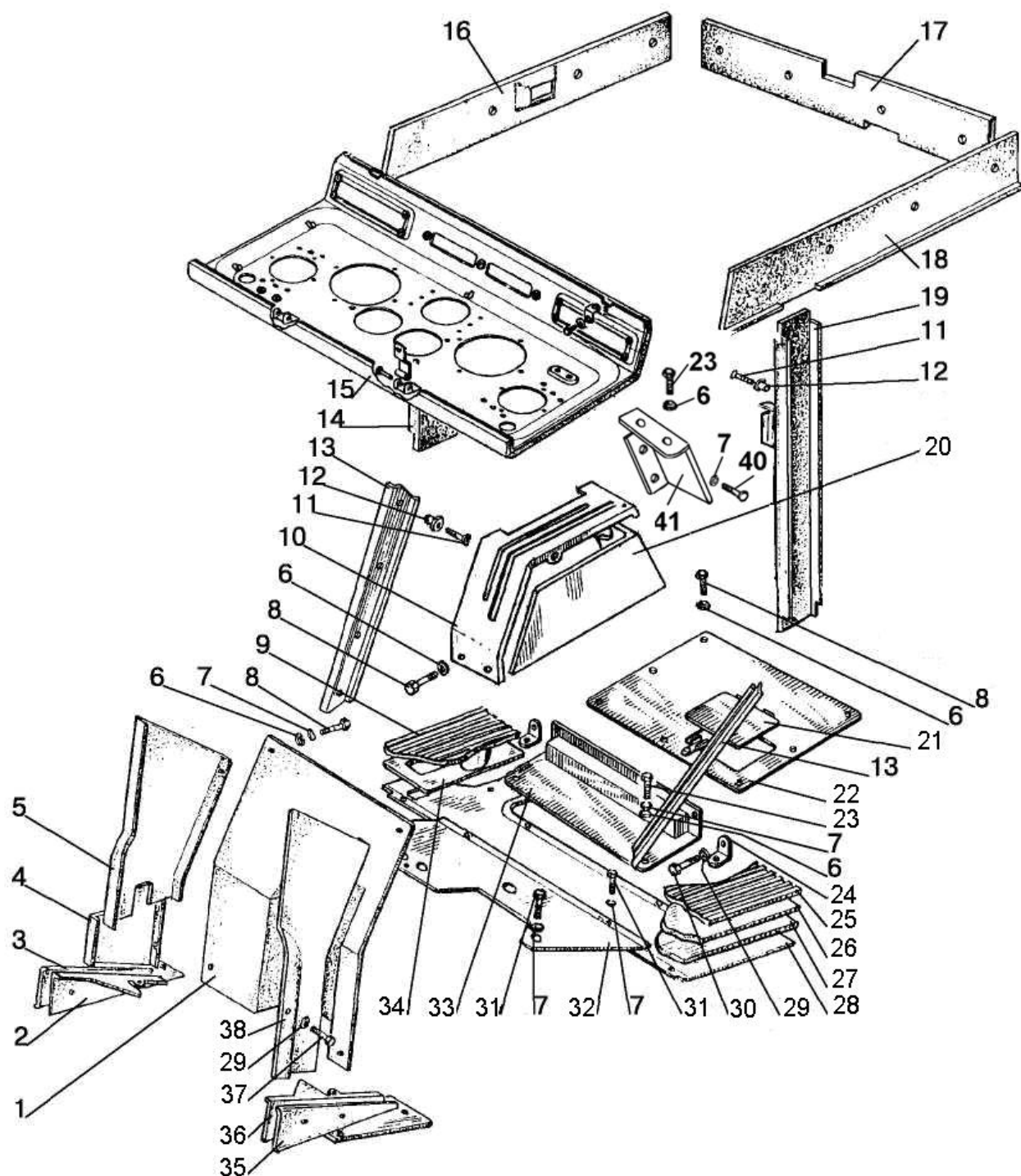


Fig. 67.2. Tractor Cabin

Group 67. Tractor Cabin
Subgroup 6700. Tractor Cabin

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
67.2	1	80-6700300	1	Panel
	2	80-6702330	1	Lining
	3	80-6702328-01	1	Side member
	4	85-6700330	1	Panel
	5	85-6700340	1	Panel
	6	C 6.01.019 GOST 6858-78	16	Washer
	7	6T OST 37.001.115-75	20	Washer
	8	M8-6gx25.88.35.019 GOST 7796-70	14	Bolt
	9	80-6702343-A ¹⁾	1	Right floor mat
		80-6702337 ²⁾ or	1	Floor mat
		80-6702337-A ²⁾		
	10	1221-6700036 or 1221-6700036-01 or 1221-6700036-02	1	Cover
	11	1-4x25.019 GOST 1144-80	28	Male screw
	12	A37.10.031	28	Lug
	13	80-6702111	2	Clamp
	14	1221-6700060	1	Lining
	15	80-8100100	1	Panel
	16	1221-6700065	1	Lining
	17	80-6700205	1	Lining
	18	1221-6700050	1	Lining
	19	1221-6700060	1	Lining
	20	85-6700040-B	1	Pult
	21	80-6702190	1	Cover
	22	85-6702195	1	Cover
	23	M6-6gx16.88.35.019 GOST 7798-70	16	Bolt
	24	70-6702111	2	Elbow
	25	80-6702342-A ¹⁾	1	Left floor mat
	26	80-6702469-B1 ¹⁾	1	Gasket
	27	80-6702468-B1	1	Gasket
	28	80-6702315-B	1	Panel
	29	C 6.01.019 GOST 11371-78	10	Washer
	30	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	31	B.M6-6gx12.58.019 GOST 17473-80	4	Screw
	32	80-6702310	1	Floor piece
	33	80-6702085	1	Cover
	34	85-6702201	1	Seal
	35	80-6702328	1	Side member
	36	80-6702320	1	Lining
	37	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt
	38	80-6700320	1	Panel
	40	M6-6gx20.88.35.019 GOST 7798-70	5	Bolt
	41	80-6700085	1	Bracket

¹⁾ To mount as an assembly, replacement by 80-6702337 or 80-6702337-A is allowed

²⁾ Replacement by 80-6702343-A with 80-6702342-A is allowed

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1220.1/1220.3/1220.4

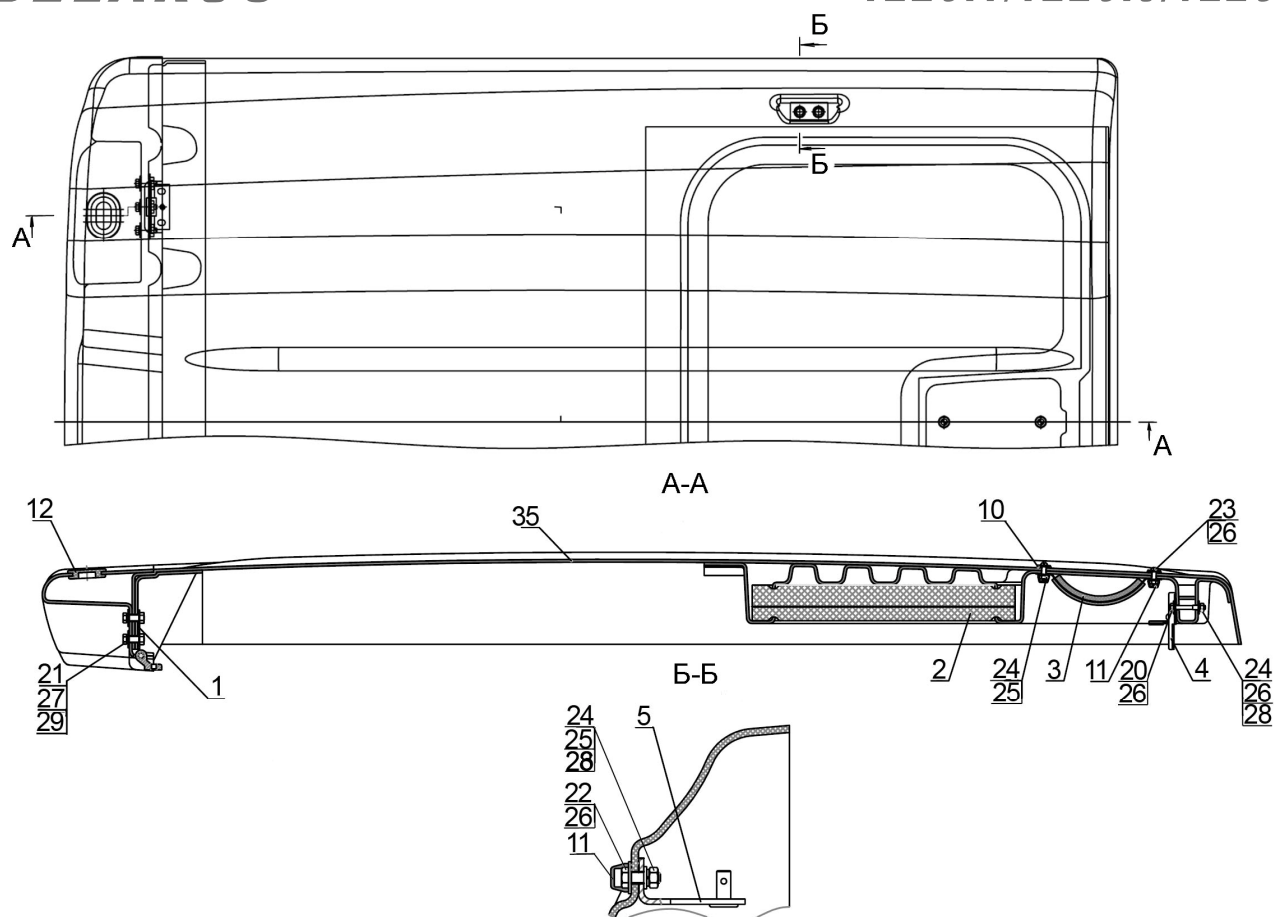


Fig.67.3. Roof

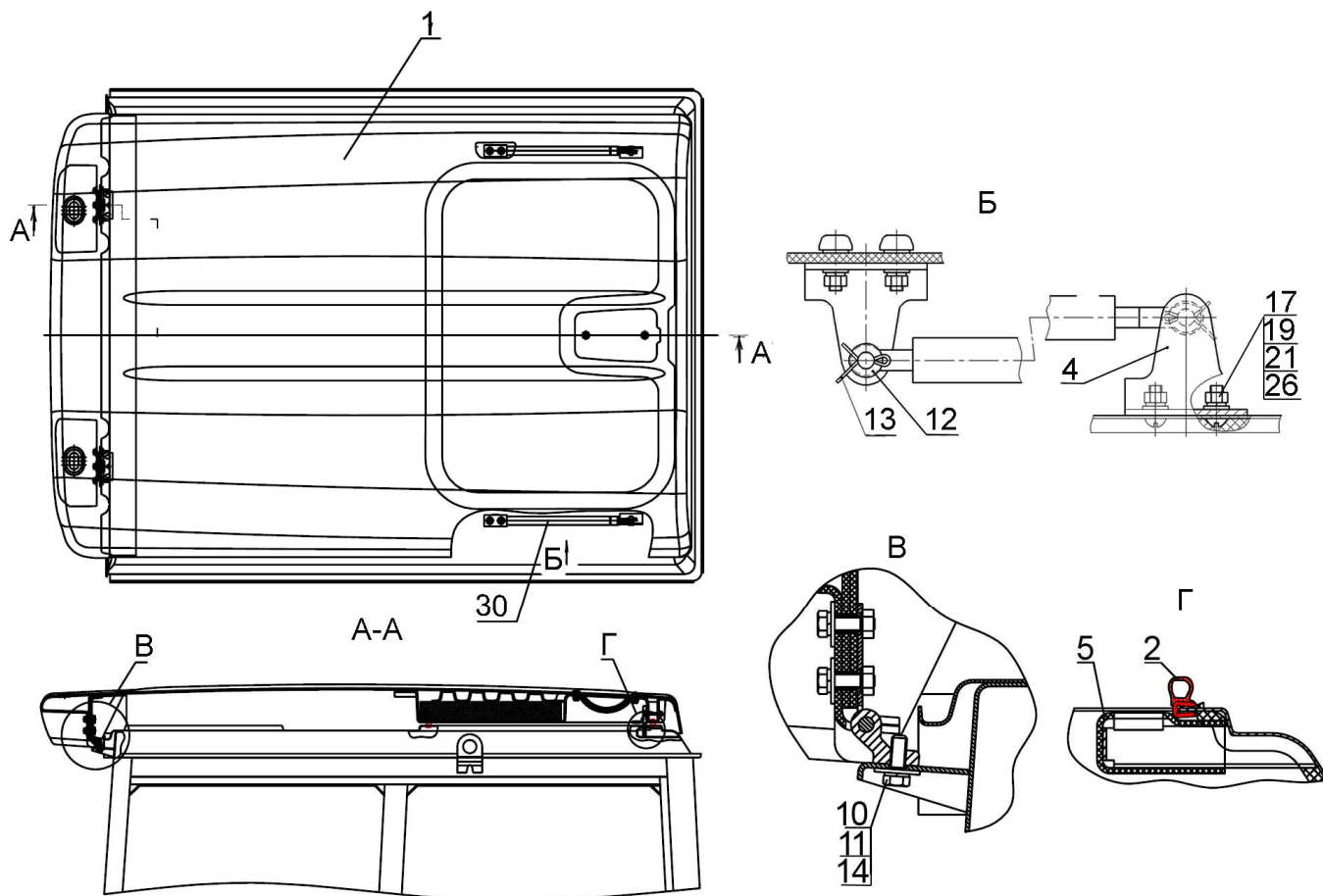


Fig.67.4. Roof

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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.3	1	80-6707020-01	2	Hinge
	2	Д82-6707030	1	Upholstery
	3	80-6707080	1	Handrail
	4	A37.09.010	1	Latch
	5	80-6708225	2	Bracket
	10	549A-1305044	2	Ring
	11	A30.04.017	6	Cap
	12	80x-8400026	2	Ring
	20	M6-6gx45.88.35.019 GOST 7795-70	2	Bolt
	21	M8-6gx25.88.35.019 GOST 7796-70	6	Bolt
	22	M6-6gx18.88.35.019 GOST 7798-70	4	Bolt
	23	M6-6gx25.88.35.019 GOST 7798-70	2	Bolt
	24	M6-6H.6.019 GOST 5915-70	8	Nut
	25	C 6.01.019 GOST 6858-78	10	Washer
	26	6T OST 37.001.115-75	6	Washer
	27	8T OST 37.001.115-75	6	Washer
	28	C 8.01.019 GOST 6858-78	6	Washer
	29	C 6.01.019 GOST 11371-78	6	Washer
	35	Д82-6707035	1	Roof

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

Fig.No	Pos.No	Designation	Q-ty	Name
67.4	1	Д82-6707025	1	Roof
	2	A37.08.045	1	Seal
	4	80-6708225	2	Bracket
	5	80-6700027-A	1	Casing
	10	M8-6gx30.88.35.019 GOST 7796-70	2	Bolt
	11	C 8.01.019 GOST 6958-78	2	Washer
	12	C 8.01.019 GOST 11371-78	4	Washer
	13	3,2x18.019 GOST 397-79	4	Forelock
	14	8T OST 37.001.115-75	2	Washer
	17	B.M6-6gx16.58.019 GOST 17473-80	4	Screw
	19	M6-6H.6.019 GOST 5915-70	4	Nut
	21	C 6.01.019 GOST 11371-78	4	Washer
	26	6T OST 37.001.115-75	4	Washer
	30	6700.01	2	Pneumatic lift

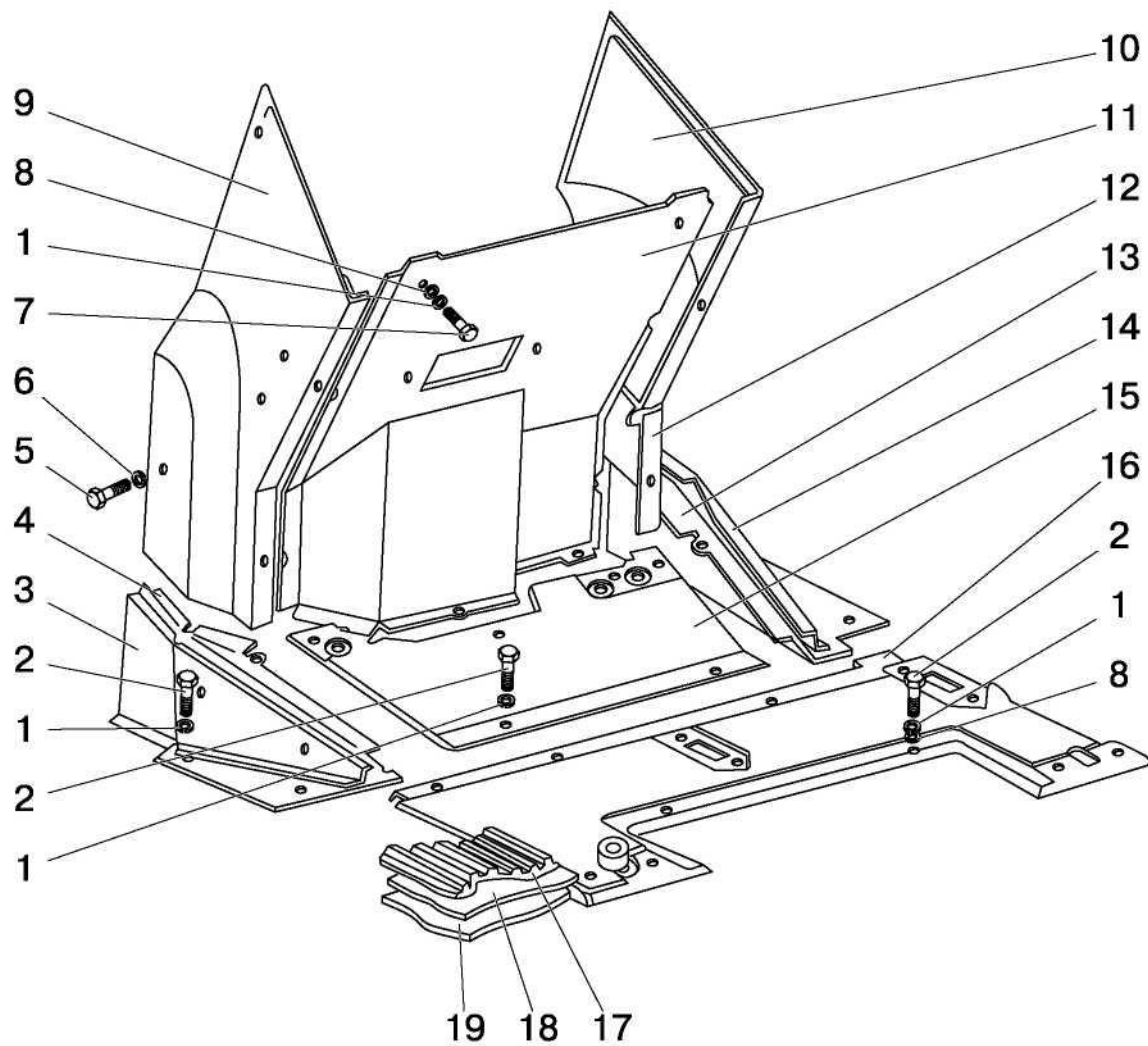


Fig. 67.5. Panels

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1220.1/1220.3/1220.4

Group 67. Tractor Cabin

Subgroup 6700. Panels

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
67.5	1	6T OST 37.001.115-75	24	Washer
	2	M6-6gx16.88.35.019 GOST 7798-70	16	Bolt
	3	80-6702328	1	Lining
	4	80-6702320	1	Side member
	5	M8-6gx40.88.35.019 GOST 7796-70	2	Bolt
	6	C 8.01.019 GOST 11371-78	2	Washer
	7	M6-6gx25.88.35.019 GOST 7798-70	8	Bolt
	8	C 6.01.019 GOST 11371-78	18	Washer
	9	80-6700320	1	Panel
	10	85-6700340	1	Panel
	11	80-6700300	1	Panel
	12	85-6700330	1	Panel
	13	80-6702328-01	1	Lining
	14	80-6702330	1	Side member
	15	80-6702310	1	Floor piece
	16	80-6702315-B	1	Panel
	17	80-6702342-A	1	Left floor mat
		80-6702343-A	1	Right floor mat
	18	80-6702469-B1	1	Gasket
	19	80-6702468-B1	1	Gasket

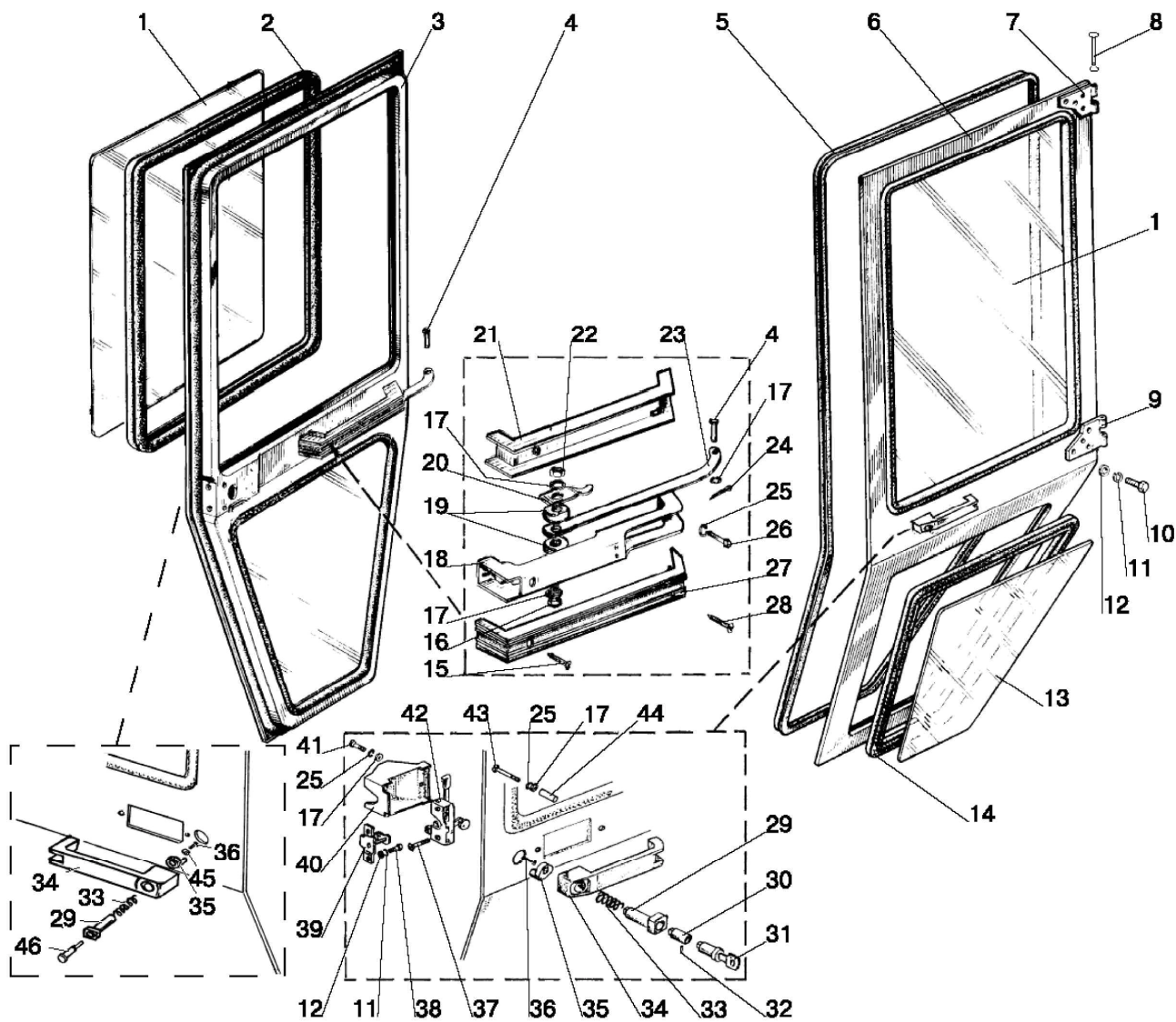


Fig.67.6. Cabin Doors

Group 67. Tractor Cabin
Subgroup 6708. Cabin Doors

Fig.No	Pos.No	Designation	Q-ty	Name
67.6		80-6708010-B	1	Door (left) (1, 2, 5-7, 9-14)
		80-6708010-B-01	1	Door (right) (1-3, 5, 7, 9-14)
		80-6105300-A1		Handle (left) (29-36)
		80-6105330-A1		Handle (right) (33-36, 45-47)
	1	80-6708013-A or 80-6708013-A1	2	Glass
	2	A37.08.043-02	2	Seal L=2720 mm
	3	80-6708020-B-03	1	Door (right)
	4	8x22 OST 37.001.163-75	2	Pin
	5	80-6700021-A	2	Profile
	6	80-6708020-B-02	1	Left door
	7	A37.03.022-B	2	Upper hinge
	8	822-6700011-01	10	Pin
		5T OST 37.001.115-75	10	Washer
	9	A37.03.022-B-01	2	Lower hinge
	10	M8-6gx25.88.35.019 GOST 7796-70	12	Bolt
	11	8T OST 37.001.115-75	12	Washer
	12	C 8.01.019 GOST 11371-78	12	Washer
	13	80-6708014-A or 80-6708014-A1	2	Glass
	14	A37.08.043-03	2	Seal
	15	1-4x40.019 GOST 1144-80	2	Male screw
	16	M6-6gx35.88.35.019 GOST 7798-70	2	Bolt
	17	C 6.01.019 GOST 11371-78	6	Washer
	18	80-6708610	2	Handrail
	19	80-6708619-A or 80-6708619	4	Bumper
	20	80-6708618	2	Spring
	21	80-6708602	2	Lining
	22	M6-6H.019 TU 23.1.505-91	2	Nut
	23	80-6708616	2	Lever
	24	3,2x18.019 GOST 397-79	2	Forelock
	25	6T OST 37.001.115-75	6	Washer
	26	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	27	80-6708603	2	Lining
	28	1-4x25.019 GOST 1144-80	2	Male screw
	29	80-6105301-B	2	Button
	30	80-6105304-B1	1	Bushing
	31	945.025.11.01.00	1	Cylinder mechanism
	32	2x11,8B3 GOST 6870-81	2	Roller
	33	80-6105302	2	Spring
	34	80-6105305	2	Handle
	35	80-6105303	2	Pusher
	36	4x10.019 TU ПБ 400024166.001-2000	2	Male screw
	37	B.M8-6gx25.58.019 GOST 17475-80	4	Screw
	38	M8-6gx16.88.35.019 GOST 7796-70	4	Bolt
	39	80-6105170-B	2	Latch
	40	80-6708812	1	Cover (left)
		80-6708812-01	1	Cover (right)
	41	B.M6-6gx16.58.019 GOST 17475-80	2	Screw
	42	80-6105050	1	Lock (left)
		80-6105050-01	1	Lock (right)
	43	B.M6-6gx45.58.019 GOST 17473-80	2	Screw
	44	80-6708813	2	Bushing
	45	C 4.01.019 GOST 6958-78	2	Washer
	46	80-6105331-B	1	Pusher

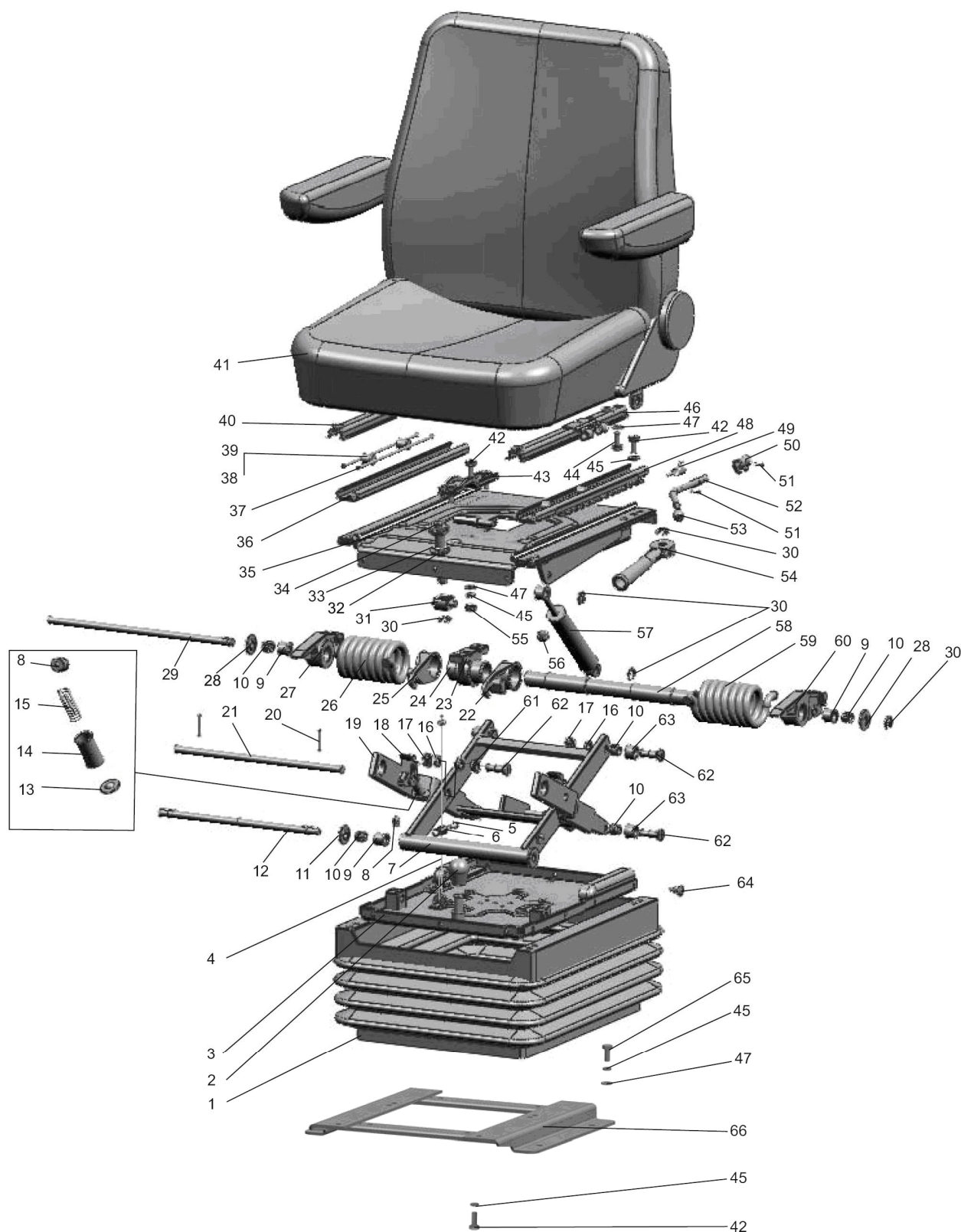


Fig.68.1. Operator Seat

BELARUS
1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
68.1		80-6800010	1	Seat (1-64)
		80-6800010-01	1	Seat (1-64)
		"Grammer MSG85/721" ¹⁾	1	Seat
	1	80B-6800108	1	Case
	2	A61.01.014	1	Handle
	3	80B-6801560	1	Base
	4	80B-6801240	1	Rope
	5	B.M5-6gx16.58.019 GOST 17473-80	2	Screw
	6	70-4803023	1	Coupling
	7	80B-6801590-E	1	Frame
	8	80B-6801521	4	Thrust
	9	80B-6801512	4	Bushing
	10	K12x16x13E GOST 24310-80	8	Bearing
	11	80B-6801033-01	2	Washer
	12	80B-6801508	1	Axis
	13	80B-6801519	2	Foot pad
	14	80B-6801518	2	Sleeve
	15	80B-6801530-E	2	Spring
	16	10 OT OST 37.001.115-75	6	Washer
	17	M10-6H.04.019 GOST 5919-73	6	Nut
	18	80B-6801581	2	Pawl
	19	80B-6801570	1	Frame
	20	4x22.019 GOST 397-79	2	Forelock
	21	80B-6801012	1	Axis
	22	80B-6801004-01	1	Hook
	23	80B-6801001	1	Bracket
	24	80B-6801003	1	Axis
	25	80B-6801004	1	Hook
	26	80B-6801002	1	Spring
	27	80B-6801507	1	Quadrant
	28	80B-6801033	2	Washer
	29	80B-6801506	1	Axis
	30	70-6801307	5	Washer
	31	80B-6801023	1	Nut
	32	80B-6801008	1	Washer
	33	3,0-100 GOST 3722-81	22	Ball
	34	80B-6801152	1	Screw
	35	80-6801550	1	Panel
	36	80-6800104	1	Guide
	37	70-6804394-E	4	Bar
	38	70-6804391	4	Roller
	39	010-015-30-2-3 GOST 18829-73/GOST 9833-73	4	Ring
	40	80-6800110-01	1	Rail
	41	CO-10	1	Seat
		CO-10-01	1	Seat
	42	M8-6gx20.88.35.019 GOST 7796-70	11	Bolt
	43	80B-6801031	1	Enhancer
	44	B.M8-6gx25.58.019 GOST 1491-80	4	Screw
	45	8T OST 37.001.115-75	15	Washer
	46	80-6800110	1	Rail
	47	C 8.01.019 GOST 11371-78	10	Washer
	48	80-6800120	1	Guide
	49	80-6800103	1	Spring

¹⁾ Against order

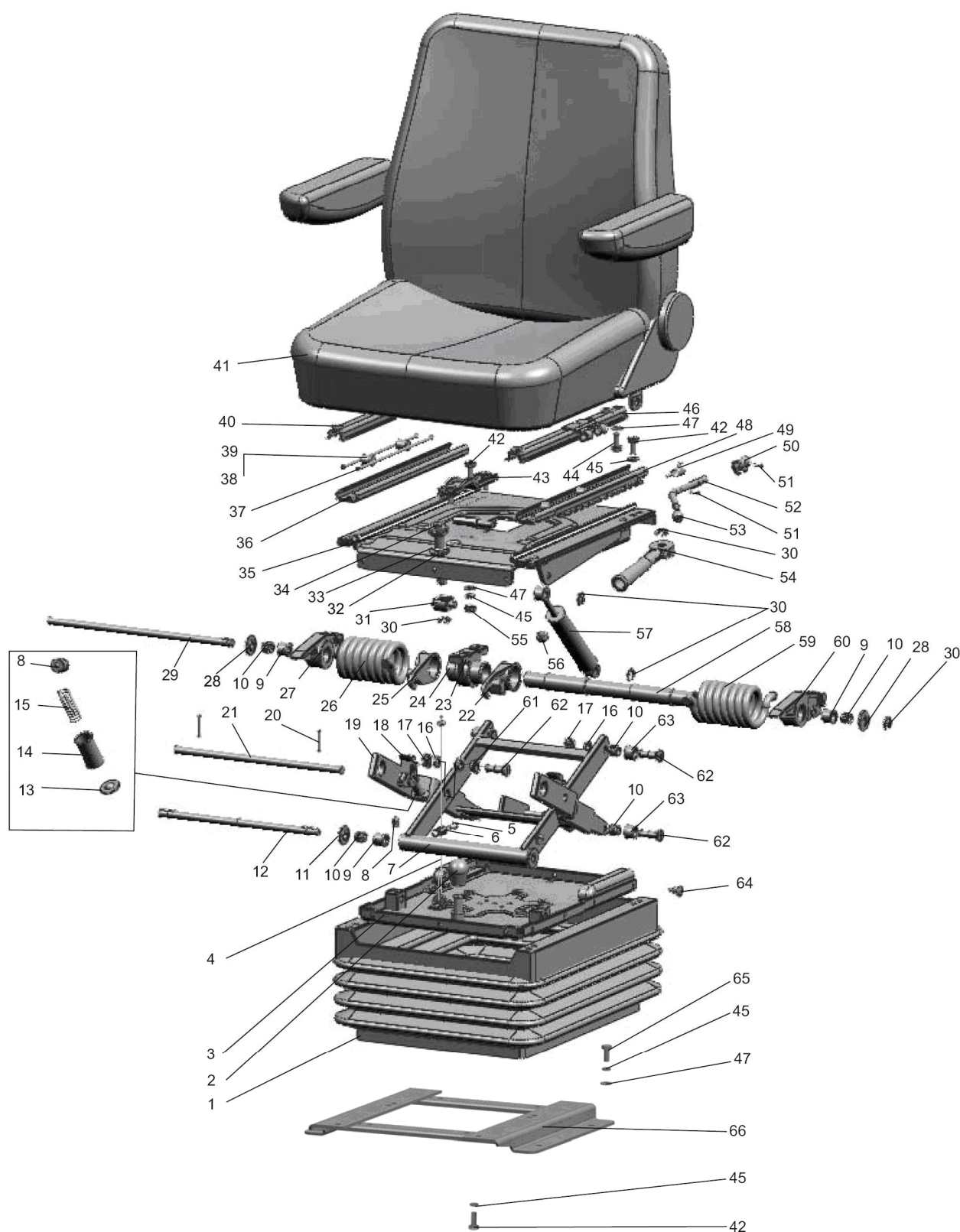


Fig.68.1. Operator Seat

BELARUS**1220.1/1220.3/1220.4**

Group 68. Driver Seat
Subgroup 6800. Operator Seat

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
68.1	50	80-6800102	1	Lock
	51	70-4202431-01	2	Pin
	52	80-6800101	1	Handle
	53	70-6801082	1	Handle
	54	80B-6801150	1	Handle
	55	M8-6H.04.019 GOST 5916-70	1	Nut
	56	80-6801531	6	Bumper
	57	80-6809100-11	1	Shock absorber
	58	80B-6801505	1	Shaft
	59	80B-6801002-01	1	Spring
	60	80B-6801507-01	1	Quadrant
	61	80B-6801526	4	Bushing
	62	80B-6801528	6	Axis
	63	80B-6801032	4	Roller
	64	80-6800006	20	Button
	65	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	66	80B-6807200	1	Bracket

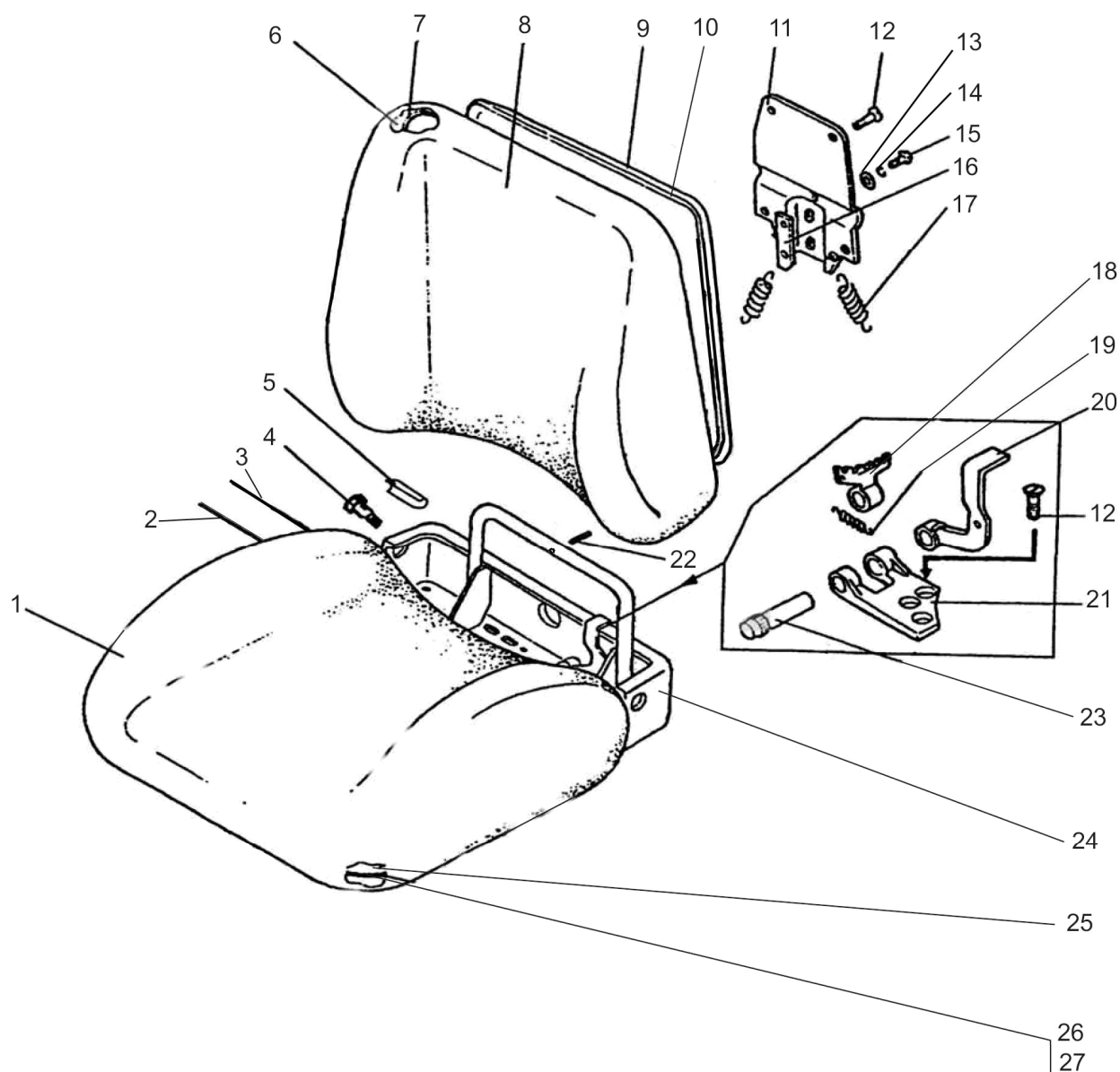


Fig.68.2 Operator Seat

BELARUS
1220.1/1220.3/1220.4

**Group 68. Driver Seat
Subgroup 6804. Operator Seat**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
68.2		80B-6804000	1	Seat (1-27)
	1	80B-6804500	1	Case
	2	80B-6804003	1	Bar
	3	80B-6804009	1	Axis
	4	80B-6800106	2	Bolt
	5	80B-6804015	2	Bushing
	6	80B-6805001	1	Cushion
	7	80B-6805002	1	Frame
	8	80B-6805500	1	Case
	9	ППР26-04	1	Profile
	10	80B-6805010	1	Base
	11	80B-6804040	1	Support
	12	B.M8-6gx16.58.019 GOST 17475-80	7	Screw
	13	C 6.01.019 GOST 11371-78	2	Washer
	14	6T OST 37.001.115-75	2	Washer
	15	M6-6gx14.88.35.019 GOST 7798-70	2	Bolt
	16	80B-6804001	1	Latch
	17	80B-6804013-Б	2	Spring
	18	80B-6804011	1	Guide bar
	19	50-1310158-Б	1	Spring
	20	80B-6804080	1	Lever
	21	80-6708011	1	Hinge
	22	4x25.019 GOST 397-79	1	Forelock
	23	70-6708189-01	1	Axis
	24	80B-6804020	1	Panel
	25	80B-6804007	1	Cushion
	26	80B-6804005	1	Frame
	27	ППР26-03	1	Profile

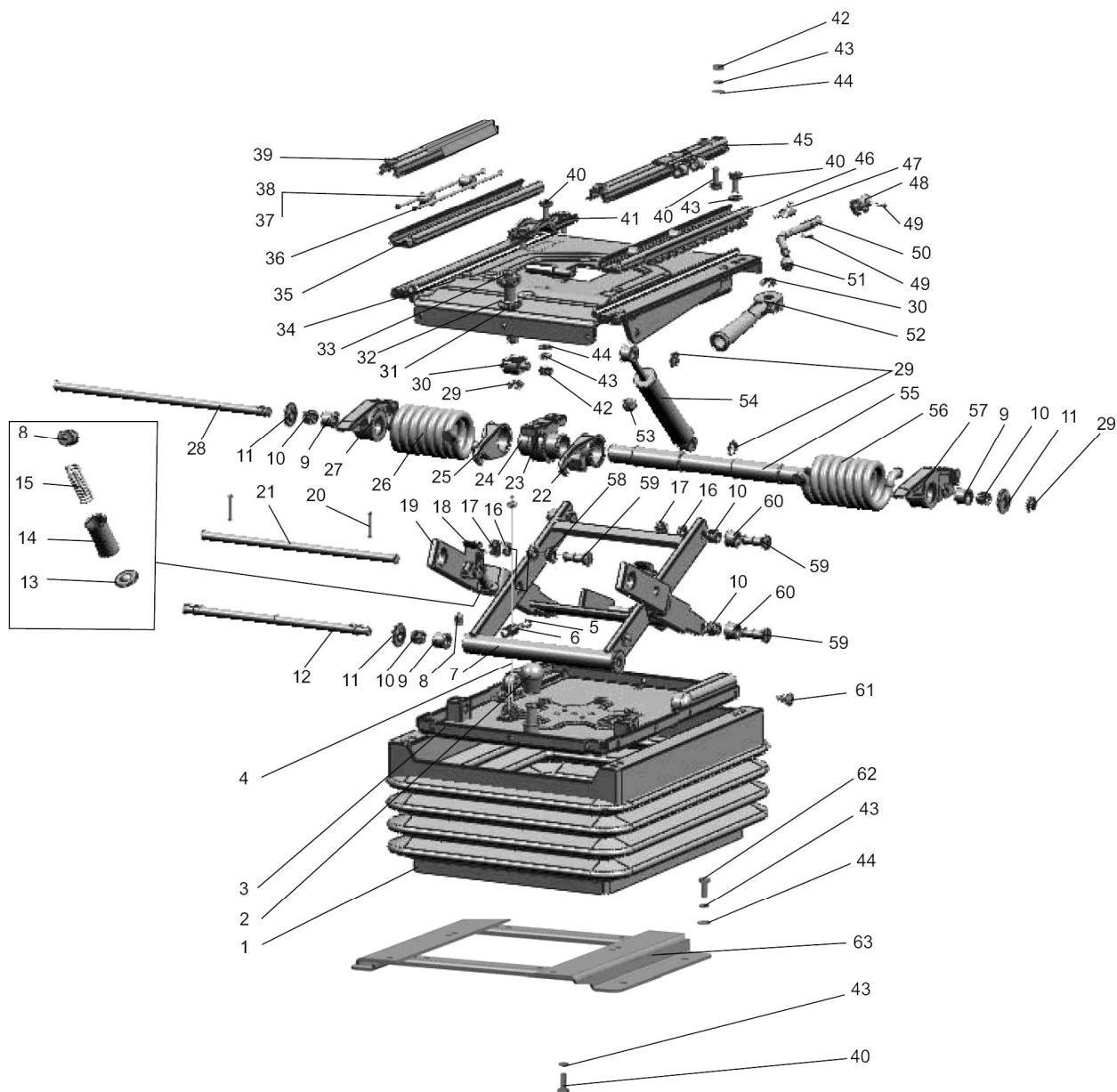


Fig.68.3 Seat Suspension

BELARUS
1220.1/1220.3/1220.4

**Group 68. Driver Seat
Subgroup 6801. Seat Suspension**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
68.3		80-6801500	1	Suspension
	1	80B-6800108	1	Case
	2	A61.01.014	1	Handle
	3	80B-6801560	1	Base
	4	80B-6801240	1	Rope
	5	B.M5-6gx16.58.019 GOST 17473-80	2	Screw
	6	70-4803023	1	Coupling
	7	80B-6801590-B	1	Frame
	8	80B-6801521	4	Thrust
	9	80B-6801512	4	Bushing
	10	K12x16x13E GOST 24310-80	8	Bearing
	11	80B-6801033	4	Washer
	12	80B-6801508	1	Axis
	13	80B-6801519	2	Foot pad
	14	80B-6801518	2	Sleeve
	15	80B-6801530-B	2	Spring
	16	10 OT OST 37.001.115-75	6	Washer
	17	M10-6H.04.019 GOST 5919-73	6	Nut
	18	80B-6801581	2	Pawl
	19	80B-6801570	1	Frame
	20	4x22.019 GOST 397-79	2	Forelock
	21	80B-6801012	1	Axis
	22	80B-6801004-01	1	Hook
	23	80B-6801001	1	Bracket
	24	80B-6801003	1	Axis
	25	80B-6801004	1	Hook
	26	80B-6801002	1	Spring
	27	80B-6801507	1	Quadrant
	28	80B-6801506	1	Axis
	29	70-6801307	5	Washer
	30	80B-6801023	1	Nut
	31	80B-6801008	1	Washer
	32	3,0-100 GOST 3722-81	22	Ball
	33	80B-6801152	1	Screw
	34	80-6801550	1	Panel
	35	80-6800104	1	Guide
	36	70-6804394-B	4	Bar
	37	70-6804391	4	Roller
	38	010-015-30-2-3 GOST 18829-73/GOST 9833-73	4	Ring
	39	80-6800110-01	1	Rail
	40	M8-6gx20.88.35.019 GOST 7796-70	15	Bolt
	41	80B-6801031	1	Enhancer
	42	M8-6H.04.019 GOST 5916-70	5	Nut
	43	8T OST 37.001.115-75	19	Washer
	44	C 8.01.019 GOST 11371-78	14	Washer
	45	80-6800110	1	Rail
	46	80-6800120	1	Guide
	47	80-6800103	1	Spring
	48	80-6800102	1	Lock
	49	70-4202431-01	2	Pin
	50	80-6800101	1	Handle
	51	70-6801082	1	Handle

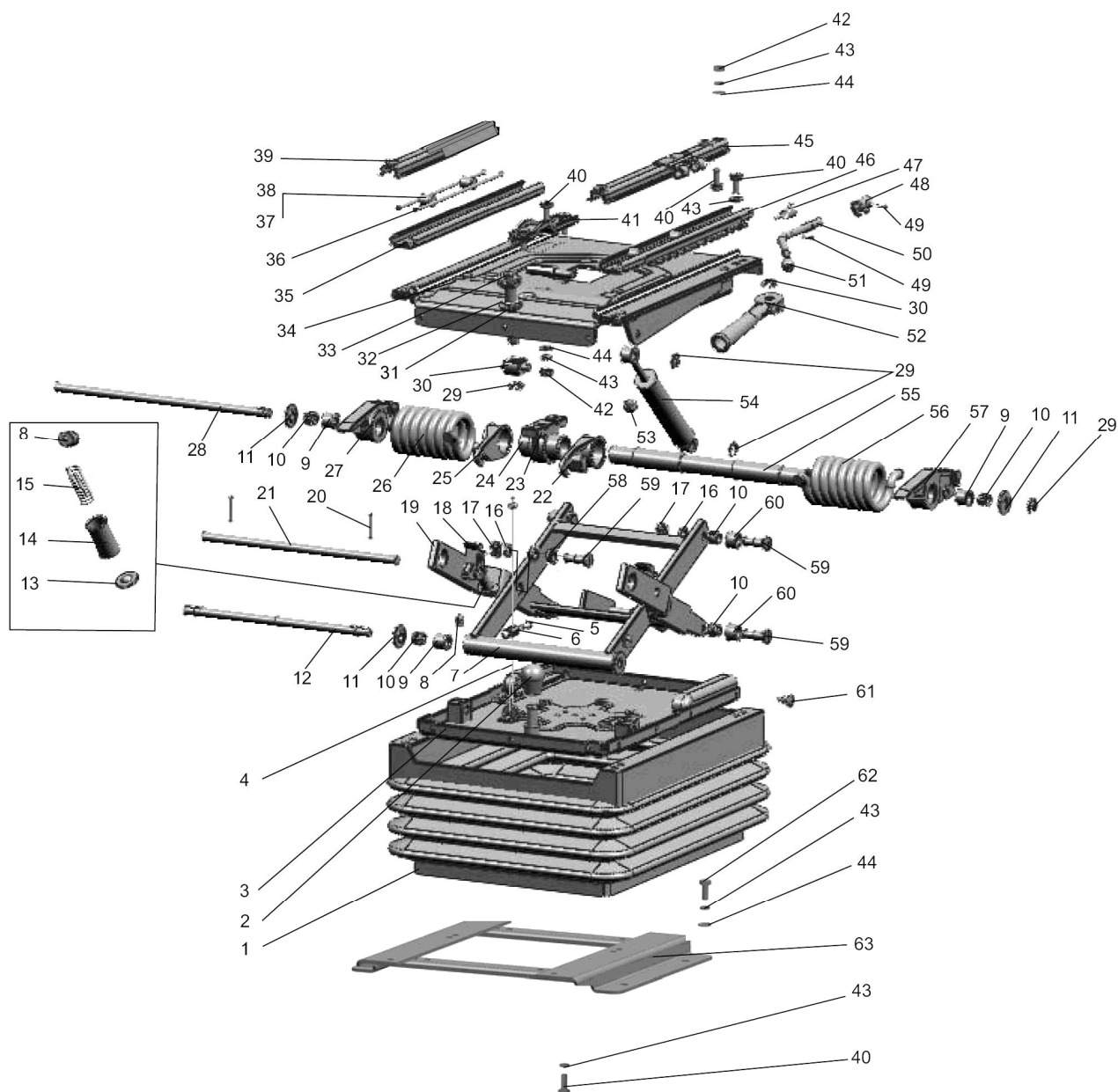


Fig.68.3 Seat Suspension

BELARUS**1220.1/1220.3/1220.4**

**Group 68. Driver Seat
Subgroup 6801. Seat Suspension**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
68.3	52	80B-6801150	1	Handle
	53	80-6801531	6	Bumper
	54	80-6809100-11	1	Shock absorber
	55	80B-6801505	1	Shaft
	56	80B-6801002-01	1	Spring
	57	80B-6801507-01	1	Quadrant
	58	80B-6801526	4	Bushing
	59	80B-6801528	6	Axis
	60	80B-6801032	4	Roller
	61	80-6800006	20	Button
	62	M8-6gx30.88.35.019 GOST 7796-70	4	Bolt
	63	80B-6807200	1	Bracket

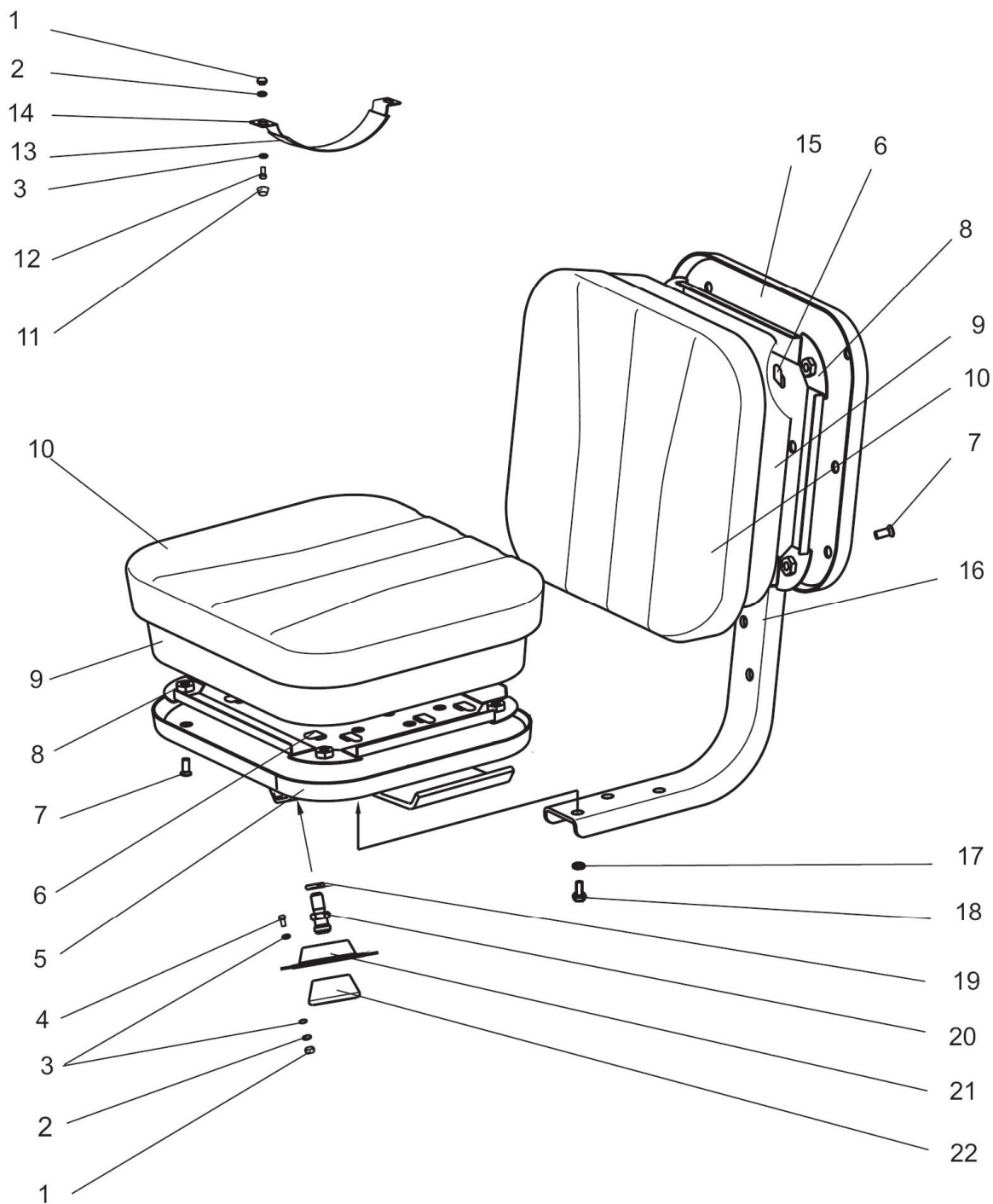


Fig.68.4. Additional Seat

BELARUS

1220.1/1220.3/1220.4

**Group 68. Driver Seat
Subgroup 6809. Additional Seat**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
68.4	1	M6-6H.6.019 GOST 5915-70	6	Nut
	2	6T OST 37.001.115-75	6	Washer
	3	C 6.01.019 GOST 11371-78	10	Washer
	4	M6-6gx30.88.35.019 GOST 7798-70	4	Bolt
	5	1221-6809020	1	Base
	6	2522-6809012	20	Clamp
	7	B.M8-6gx16.58.019 GOST 17475-80	8	Screw
	8	2522-6809030	2	Framework
	9	2522-6809011	2	Cushion
	10	2522-6809040	2	Case
	11	A30.04.017	2	Cap
	12	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	13	A37.08.019-01	1	Handrail seal
	14	A37.07.011	1	Band
	15	2522-6809060	1	Base
	16	2522-6809006	1	Framework
	17	8T OST 37.001.115-75	6	Washer
	18	M8-6gx16.88.35.019 GOST 7796-70	6	Bolt
	19	10 OT OST 37.001.115-75	2	Washer
	20	70-6700031	2	Holder
	21	70-6700116	2	Lining
	22	50-3711038	2	Light support

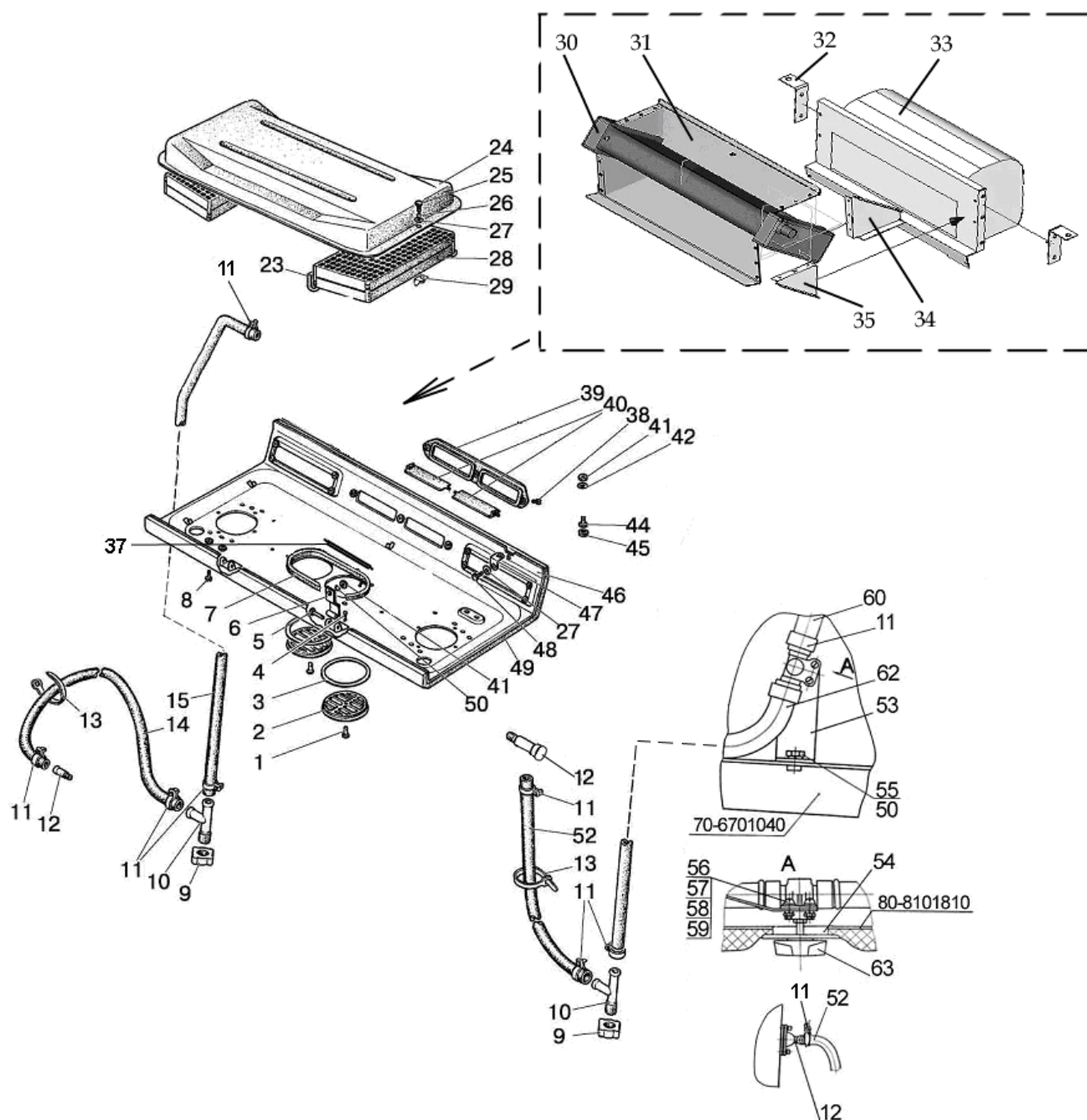


Fig.81.1. Heater

BELARUS

1220.1/1220.3/1220.4

Group 81. Heater
Subgroup 8101. Heater

Fig.No	Pos.No	Designation	Q-ty	Name		
81.1		80-8101200		Heater (23-35)		
		80-8101810		Panel (1-8, 27, 37-40, 46, 47-49)		
		80-8101830		Heater fittings (9-15, 43,51,52)		
		1522-8101100-01		Heater-fan (30-35)		
	1	6x18 OST 37.001.163-75	2	Pin		
	2	150.95.301	2	Air valve group		
	3	80-8100013	2	Lining		
	4	2x12.019 GOST 397-79	2	Forelock		
	5	50-8400031	2	Axis		
	6	80-8100048	2	Hinge		
	7	80-8101714-07	1	Seal		
	8	2x12.019 GOST 397-79	2	Forelock		
	9	80-8100052-A	2	Plug	Replacement by bushing is allowed 70-6702306 (2 pieces)	
	10	80-8100051	2	Three way pipe		
	11		10	Clamp with worm thread 20-32		
	12	80-8100023	2	Coupling		
	13	80-3723045-01	3	Collar		
	14	80-8102015-02	1	Hose L=1740 mm		
	15	80-8101015	1	Hose L=2100 mm		
	23	80-8101714-04	2	Seal		
	24	80-8101760	1	Cover		
	25	M6-6gx20.88.35.019 GOST 7798-70	2	Bolt		
	26	6T OST 37.001.115-75	11	Washer		
	27	C 6.01.019 GOST 6958-78	4	Washer		
	28	80-8104070	2	Filter		
	29	80-8101820	1	Suspension		
	30	1522-8101060/ 90-8101060	1	Heater radiator		
	31	1522-8101104	1	Cover		
	32	80-8101201	2	Bracket		
	33	ЭВМ12-1 02	1	Fan		
	34	1522-8101101	1	Angle-plate		
	35	1522-8101102	1	Angle-plate		
	37	80-8100014-01	1	Stem		
	38	B.M6-6gx20.58.019 GOST 17474-80	6	Screw		
	39	80-8100011-B	1	Cover		
	40	80-8100012	2	Shutter		
	41	M8-6H.6.019 GOST 5915-70	4	Nut		
	42	C 8.01.019 GOST 6958-78	2	Washer		
	44	M8-6gx35.88.35.019 GOST 7796-70	2	Bolt		
	45	A30.04.017-01	2	Cap		
	46	80-8100100	1	Panel		
	47	70-6702111	2	Elbow		
	48	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt		
	49	80-8101713	1	Upholstery		
	50	8T OST 37.001.115-75	4	Washer		
	52	80-8102015-03	1	Hose L=550 mm		
	53	80-8101717	1	Bracket		
	54	80-8101811	1	Lining		
	55	M8-6gx20.88.35.019 GOST 7796-70	2	Bolt		
	56	B.M5-6gx10.58.019 GOST 17473-80	2	Screw		
	57	M5-6H.6.019 GOST 5915-70	2	Nut		
	58	C 5.01.019 GOST 11371-78	2	Washer		
	59	5T OST 37.001.115-75	2	Washer		
	60	822-8101021-02	1	Hose		
	62	80-8102015-01	1	Hose L=1680 mm		
	63	ПО 11	1	Cock		

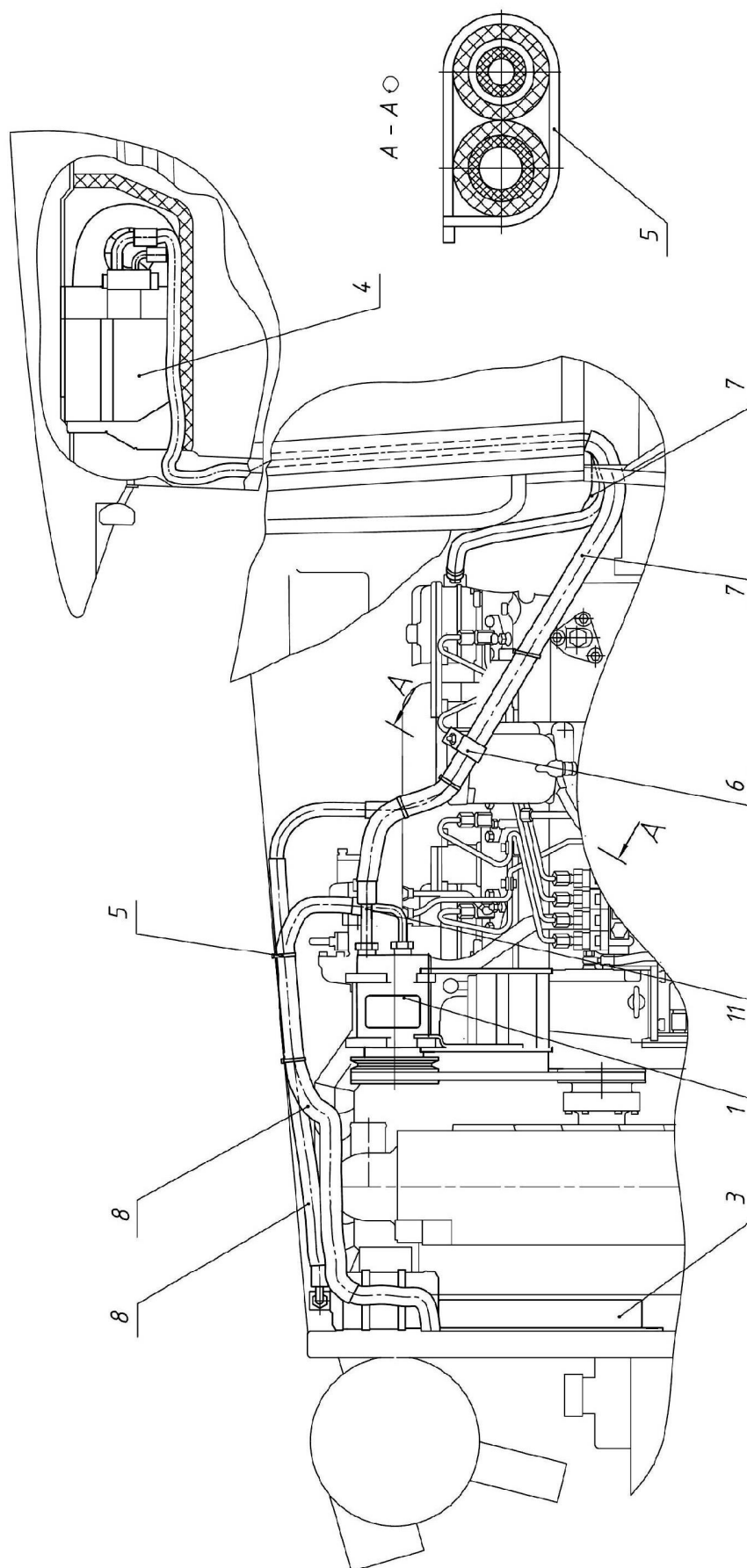


Fig.81.2 Conditioner Assembly

BELARUS**1220.1/1220.3/1220.4**

Group 81. Conditioner System
Subgroup 8100. Air Conditioner Assembly

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
81.2		1025.4-8100005	1	Air conditioner assembly
	1	1025.4-8114010	1	Air conditioner compressor
	3	1025-8112010	1	Condenser assembly
	4	1221.1-8101010-02	1	Cooler-heater assembly
	5	80-3723045-01	12	Collar
	6	П80-4607013	1	Clamp
	7	3022-81000012	2	Hose (L=800 mm)
	8	3022-81000012-01	2	Hose (L=600 mm)
	11	MT8100000-01	1	Conditioner

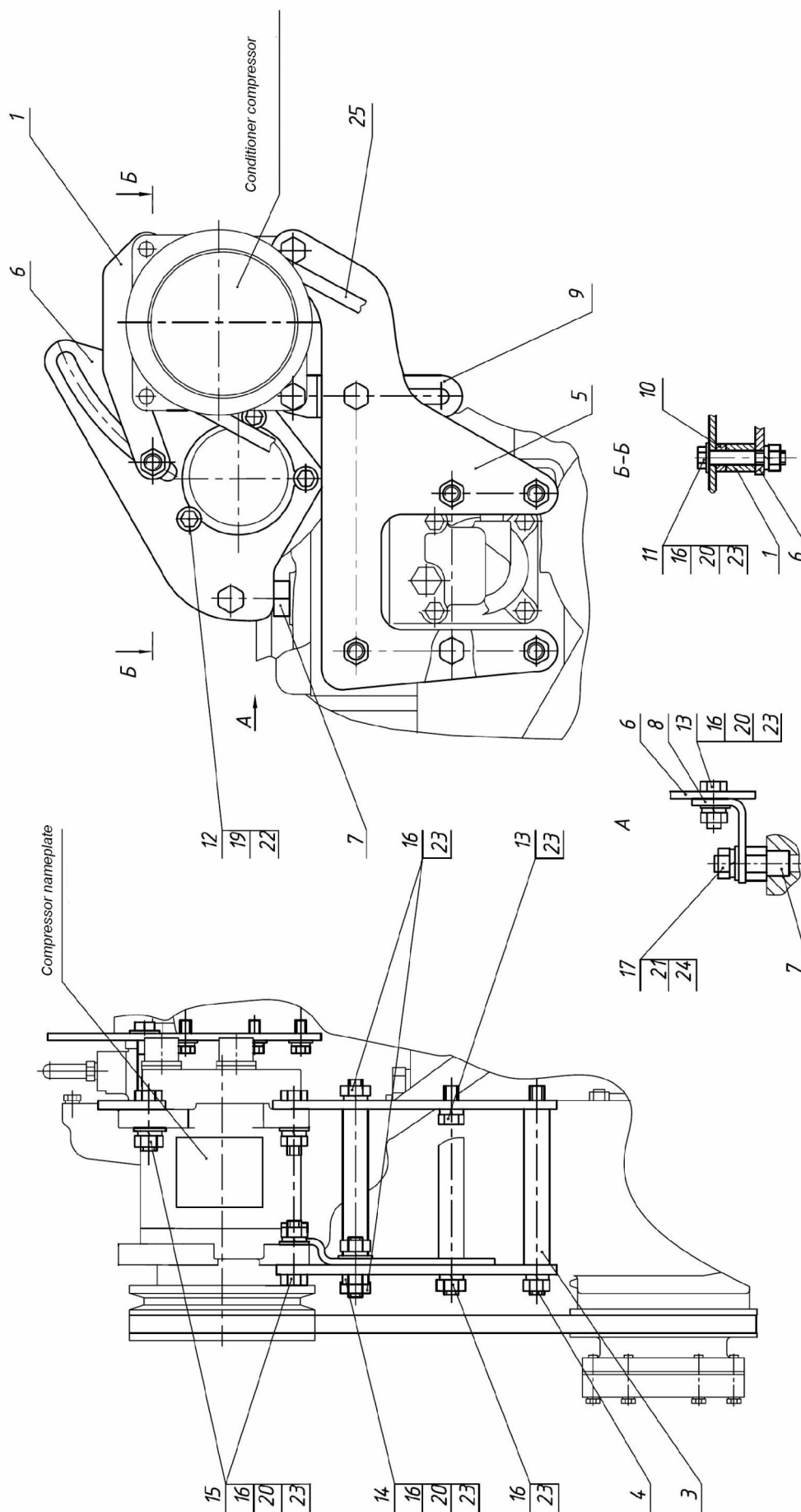


Fig.81.3 Compressor Assembly

BELARUS

1220.1/1220.3/1220.4

**Group 81. Conditioner System
Subgroup 8114. Compressor Assembly**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
81.3		1025.4-8114010	1	Compressor assembly
	1	1025-8114020-01	1	Lever
	3	1025.4-8114012	4	Bushing
	4	1025.4-8114014	4	Stud
	5	1025-8114011	2	Bracket
	6	1025-8114013	1	Quadrant
	7	1025-8114016	1	Adapter
	8	1025-8114017	1	Elbow
	9	1025-8114018	1	Plate
	10	1220-1109114	1	Bushing
	11	M10-6gx60.88.35.019 GOST 7795-70	1	Bolt
	12	M8-6gx20.88.35.019 GOST 7796-70	3	Bolt
	13	M10-6gx25.88.35.019 GOST 7796-70	2	Bolt
	14	M10-6gx30.88.35.019 GOST 7796-70	1	Bolt
	15	M10-6gx40.88.35.019 GOST 7796-70	5	Bolt
	16	M10-6H.6.019 GOST 5915-70	13	Nut
	17	M12-6H.6.019 GOST 5915-70	1	Nut
	19	C.8.01.019 GOST 11371-78	3	Washer
	20	C.10.01.019 GOST 11371-78	7	Washer
	21	C.12.01.019 GOST 11371-78	1	Washer
	22	8T OST 37.001.115-75	3	Washer
	23	10 OT OST 37.001.115-75	14	Washer
	24	12 OT OST 37.001.115-75	1	Washer
	25		1	Belt AVX 13x1200

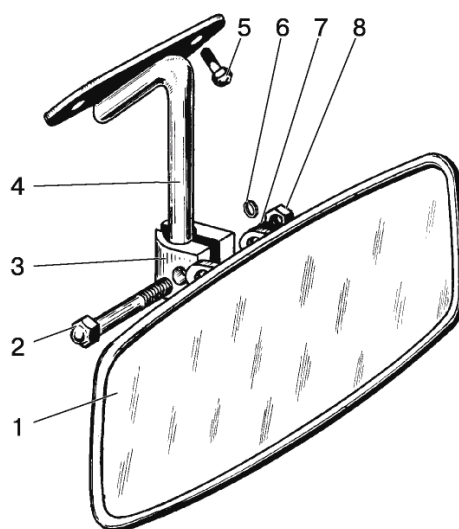


Fig. 82.1. Inside Mirror

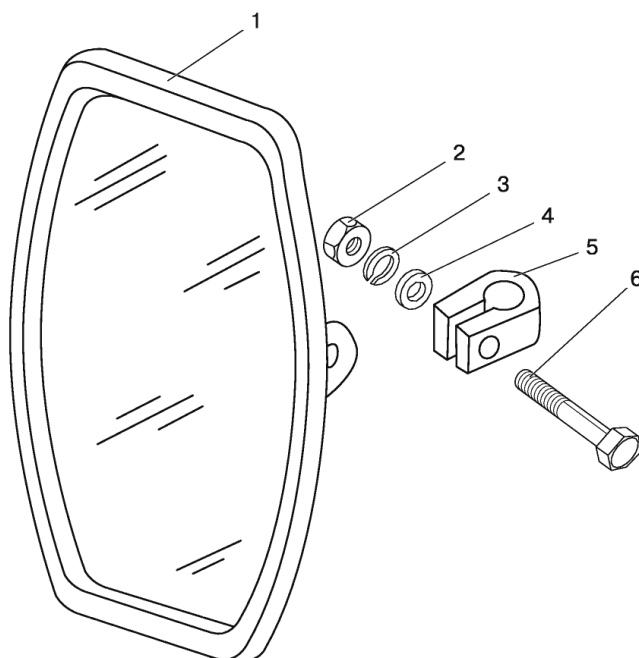


Fig. 82.2. Outside Mirror

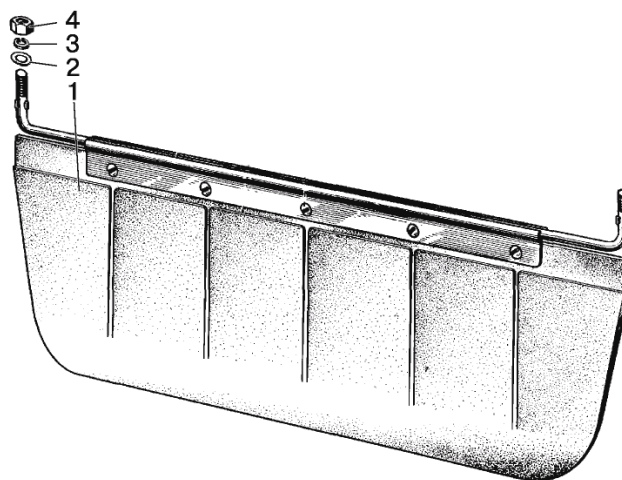


Fig. 82.3. Sun Visor

Group 82. Cabin Accessories
Subgroup 8201. Inside Mirror

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
82.1		80-8201090	1	Inner mirror assembly (1-7)
	1	80-8201035	1	Inside mirror
	2	M8-6gx30.88.35.019 GOST 7796-70	1	Bolt
	3	A30.04.071	1	Clamp
	4	80П-8201025	1	Bracket
	5	B.M6-6gx12.58.019 GOST 17473-80	2	Screw
	6	8T OST 37.001.115-75	1	Washer
	7	C 8.01.019 GOST 11371-78	1	Washer
	8	M8-6H.6.019 GOST 5915-70	1	Nut

Group 82. Cabin Accessories
Subgroup 8201. Outside Mirror

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
82.2	1	80-8201055	2	Outside mirror
	2	M8-6H.6.019 GOST 5915-70	2	Nut
	3	8T OST 37.001.115-75	2	Washer
	4	C 8.01.019 GOST 11371-78	2	Washer
	5	A30.04.051	2	Clamp
	6	M8-6gx40.88.35.019 GOST 7795-70	2	Bolt

Group 82. Cabin Accessories
Subgroup 8204. Sun Visor

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
82.3	1	80П-8204010	1	Sun visor (1-4)
	2	C 6.01.019 GOST 11371-78	2	Washer
	3	6T OST 37.001.115-75	2	Washer
	4	M6-6H.6.019 GOST 5915-70	2	Nut

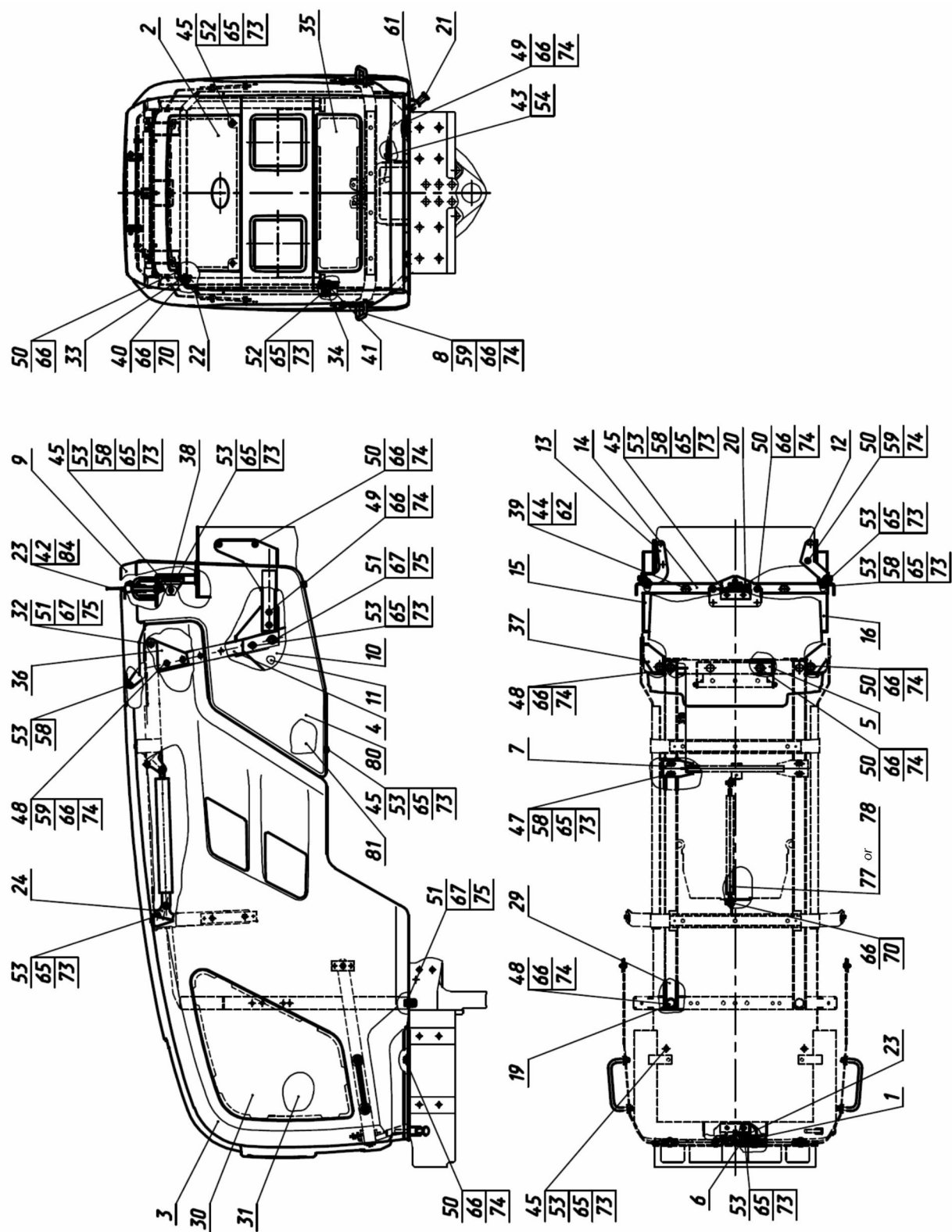


Fig. 84.1. Facing

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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
84.1		921.3-8400005-04		Facing
		922.4-8400005-03¹⁾		Facing
	1	921.3-8400040	1	Frame
	2	921.3-8401090	1	Grill
	3	921.3-8402020-01	1	Hood
		922.4-8402020-01 ¹⁾	1	Hood
	4	921.3-8402050-A	1	Arc
	5	921.3-8402080	1	Support
	6	921.3-8402095	1	Detent
	7	921.3-8402150	1	Bracket
	8	921.3-8402250-A	2	Handrail
	9	952.3-8402330-01	1	Hatch
	10	952.3-8402470-A	1	Support
	11	952.3-8402470-A-01	1	Support
		952.4-8402470 ¹⁾	1	Support
	12	952.3-8402060	1	Bracket
	13	952.3-8402065	1	Bracket
	14	952.3-8402070	1	Bracket
	17	952.3-8402080-02	1	Bracket
	18	952.3-8402080-03	1	Bracket
	19	950.3-8402025-A	1	Frame
	20	950.1-8402420	1	Joke
	21	822-8400080	1	Control wire
	22	90-8400070	1	Rod
	23	80-8402410	2	Lock
	24	80-6708225-01	2	Bracket
	29	921.3-8400013-B	2	Buckle
	30	921.3-8400017	1	Grill
	31	921.3-8400017-01	1	Grill
	32	921.3-8400077	2	Bushing
	33	921.3-8400101	1	Bracket
	34	921.3-8400102	1	Bracket
	35	921.3-8401088	1	Grill
	36	921.3-8402071	1	Bracket
	37	921.3-8402071-01	1	Bracket
	38	952.3-8402067	2	Bracket
	39	923-8400033-02	2	Stem
	40	549A-1305044	1	Ring
	41	90-8400021	1	Clamp
	42	80-6105056	1	Handle
	43	70-4803023	1	Coupling
	44	70-3401093	2	Lever tip
	45	A30.04.017	12	Cap
	47	M6-6gx40.88.35.019 GOST 7795-70	4	Bolt
	48	M8-6gx45.88.35.019 GOST 7795-70	8	Bolt
	49	M8-6gx50.88.35.019 GOST 7795-70	4	Bolt
	50	M8-6gx25.88.35.019 GOST 7796-70	16	Bolt
	51	M10-6gx25.88.35.019 GOST 7796-70	12	Bolt
	53	M6-6gx20.88.35.019 GOST 7798-70	35	Bolt
	54	B.M5-6gx20.58.019 GOST 17473-80	2	Screw
	58	M6-6H.6.019 GOST 5915-70	12	Nut
	59	M8-6H.6.019 GOST 5915-70	9	Nut
	61	M12x1,25-6H.6.019 GOST 5915-70	1	Nut
	62	M10-6H.6.019 GOST 5915-70	2	Nut

¹⁾ For tractor BELARUS-1220.3 with muffler according to the cabin rack

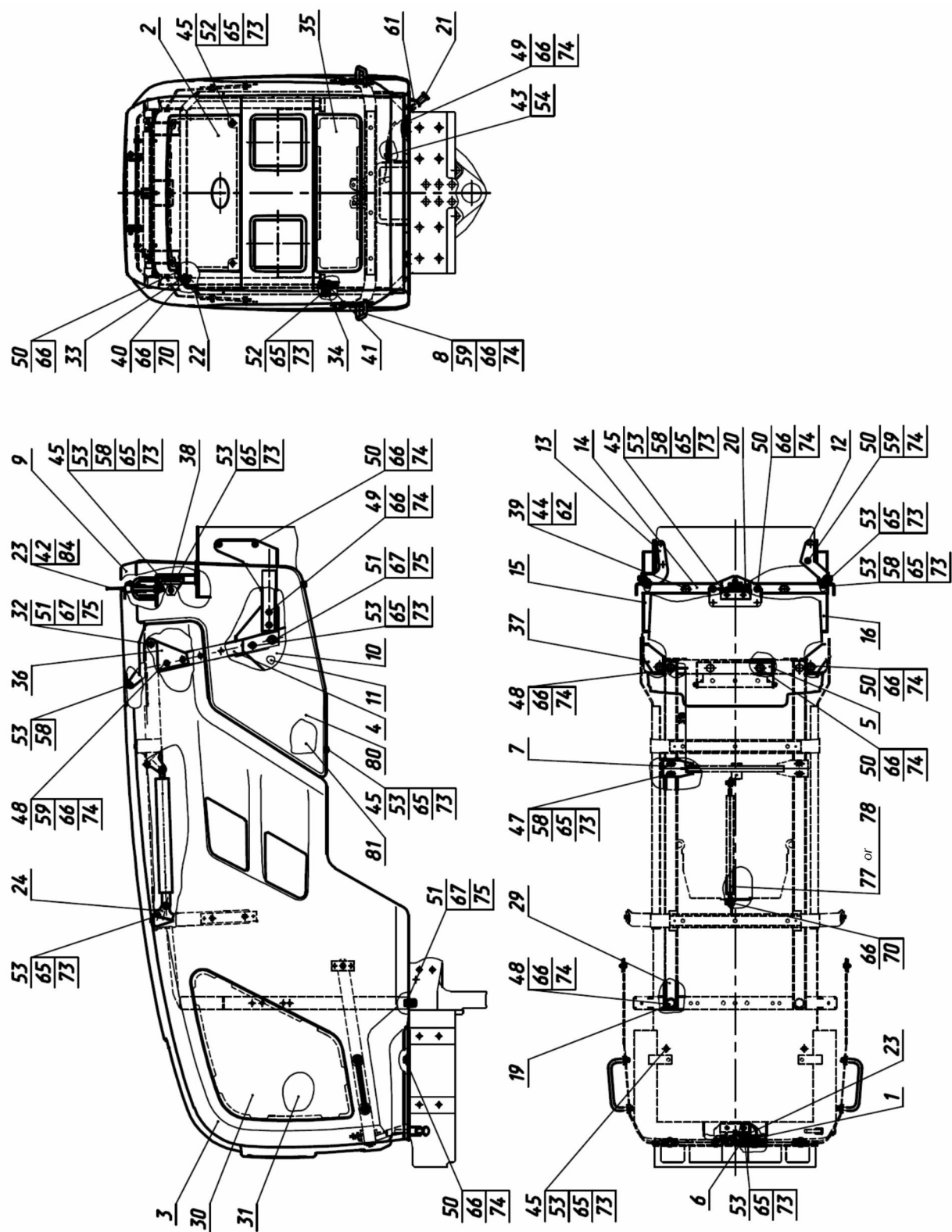


Fig. 84.1. Facing

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1220.1/1220.3/1220.4

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

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
84.1	65	C 6.01.019 GOST 6958-78	39	Washer
	66	C 8.01.019 GOST 6958-78	34	Washer
	67	C 10.01.019 GOST 6958-78	12	Washer
	70	3,2x20.019 GOST 397-79	3	Forelock
	73	6T OST 37.001.115-75	39	Washer
	74	8T OST 37.001.115-75	31	Washer
	75	10 OT OST 37.001.115-75	12	Washer
	77	11.5.6308010 TU PE 500032891.095-2003	1	Gas pressure spring
	78	01625033A	1	Gas pressure spring
	80	952.3-8402310-02 CT2/IV TU BY 690305814.001-2005	1	Side member
	81	952.3-8402310-03 CT2/IV TU BY 690305814.001-2005	1	Side member
		952.4-8402320-01 CT2/IV TU BY 690305814.001-2005 ¹⁾	1	Side member
	84	4x10.019 TU BY 400024166.016-2009	1	Male screw

¹⁾ For tractor BELARUS-1220.3 with muffler according to the cabin rack

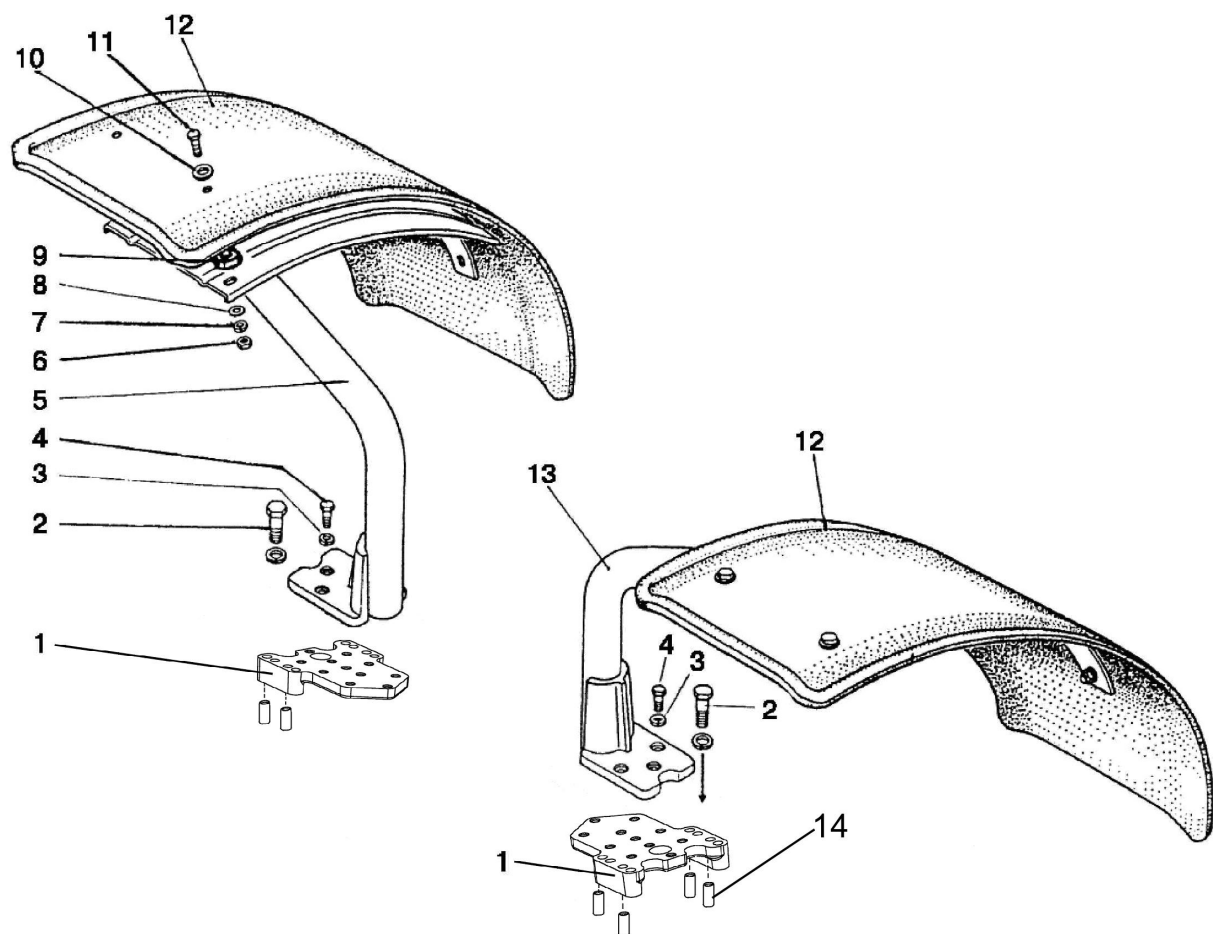


Fig. 84.2 Front Wheels Wings

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1220.1/1220.3/1220.4

**Group 84. Fin Assembly
Subgroup 8403. Front Wheels Wings**

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
84.2		2022-8403010/-01	1	Wing
	1	822-8403011-Б	2	Base
	2	M12-6gx85.88.35.019 GOST 7796-70	8	Bolt
	3	12 OT OST 37.001.115-75	14	Washer
	4	M12-6gx30.88.35.019 GOST 7796-70	6	Bolt
	5	2022-8403015/-01	1/1	Rack
	6	M10-6H.6.019 GOST 5915-70	10	Nut
	7	10Л OST 37.001.115-75	10	Washer
	8	C 10.01.019 GOST 11371-78	10	Washer
	9	80-4616017	10	Roller
	10	C 10.01.019 GOST 6958-78	10	Washer
	11	M10-6gx40.88.35.019 GOST 7796-70	10	Bolt
	12	1221-8403014-Б-02 or 1221-8403014-Б1-02	2 2	Wing Wing
	13	2022-8403015	1	Rack
	14	2022-8403012	8	Bushing

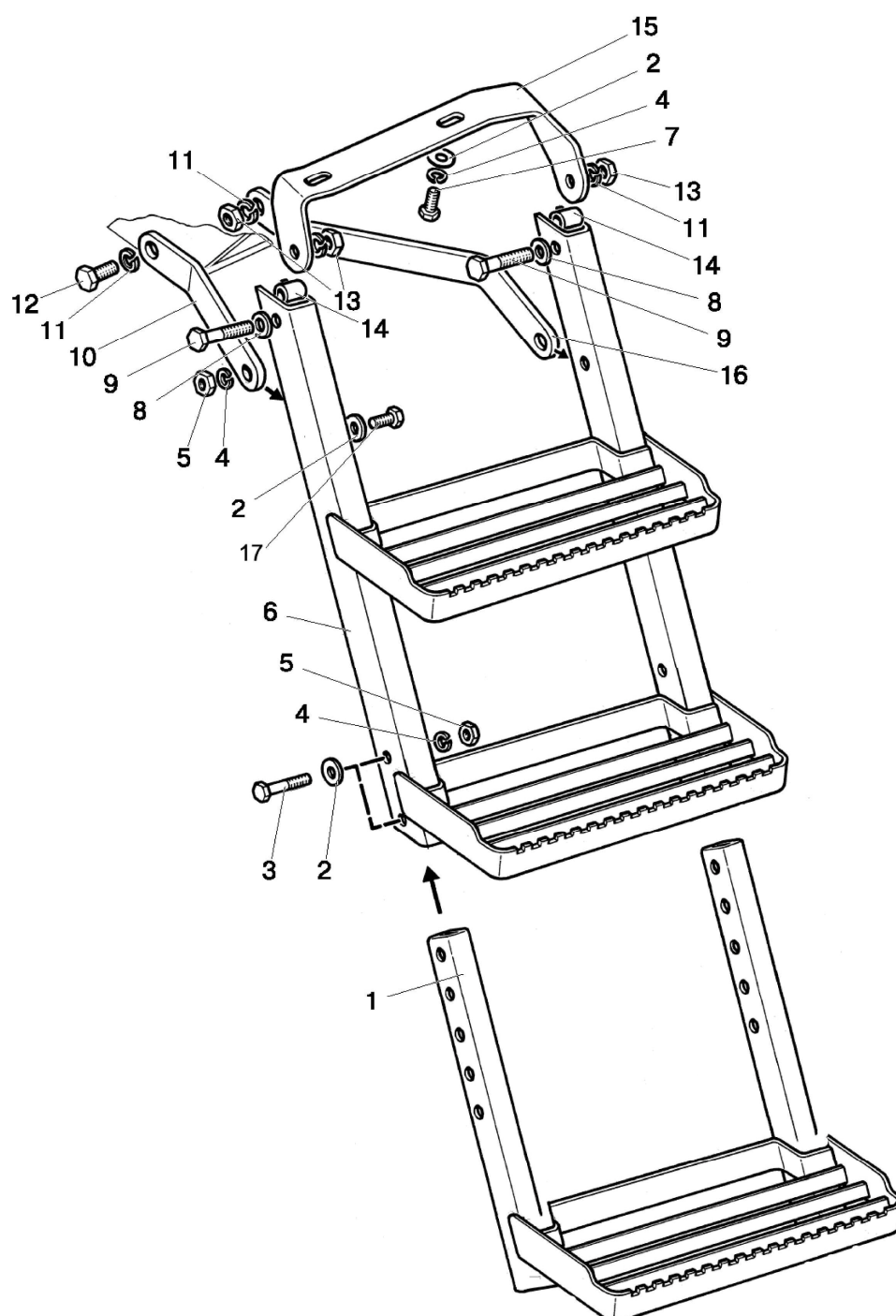


Fig. 84.3. Foot Step

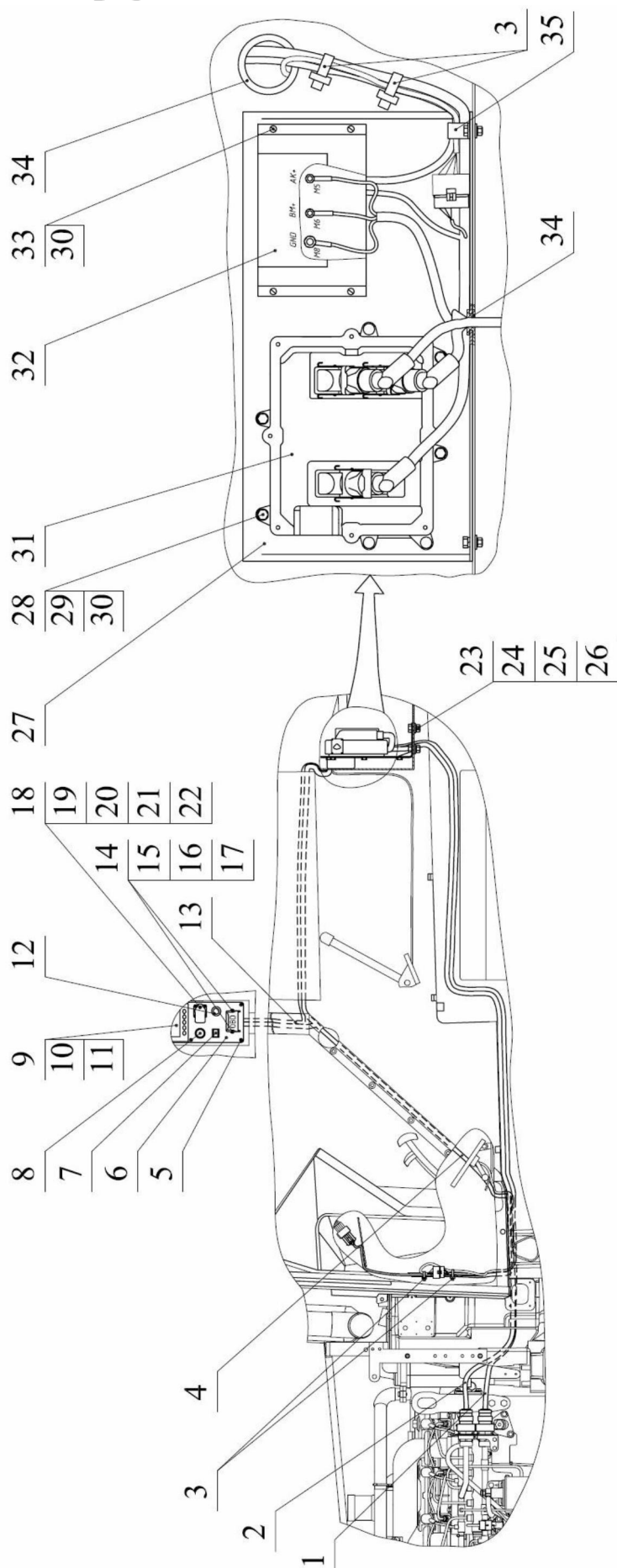
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1220.1/1220.3/1220.4

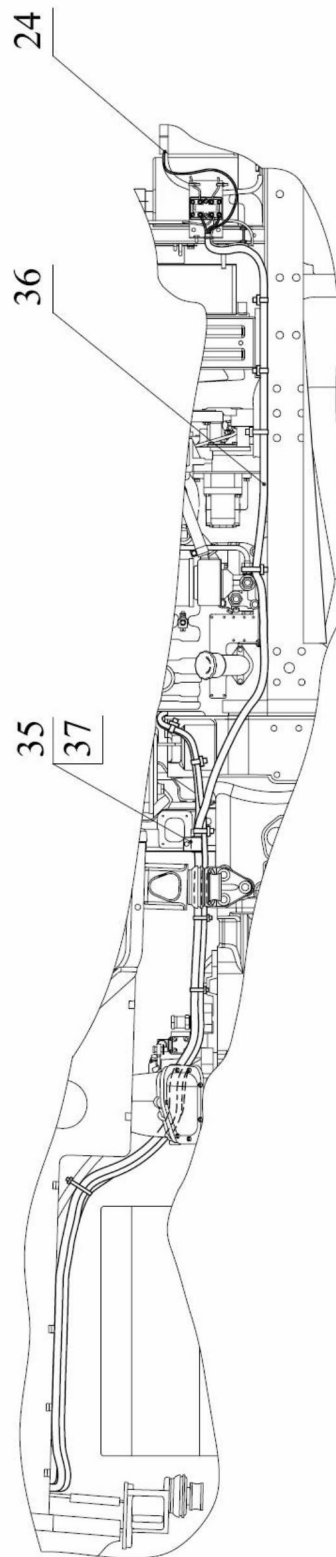
**Group 84. Fin Assembly
Subgroup 8405. Foot Step**

Fig.No	Pos.No	Designation	Q-ty	Name
84.3		80-8405005-Б	1	Left foot step (1-16)
		80-8405005-Б ¹⁾	1	Right foot step (1-16)
	1	80-8405020-A2	1	Foot step
	2	C 10.01.019 GOST 11371-78	8	Washer
	3	M10-6gx50.88.35.019 GOST 7795-70	4	Bolt
	4	10 OT OST 37.001.115-75	8	Washer
	5	M10-6H.6.019 GOST 5915-70	6	Nut
	6	80-8405010-A3	1	Foot step
	7	M10-6gx30.88.35.019 GOST 7796-70	2	Bolt
	8	C 12.01.019 GOST 11371-78	2	Washer
	9	M12-6gx60.88.35.019 GOST 7796-70	2	Bolt
	10	80-8405031-Б	1	Bracket
	11	12 OT OST 37.001.115-75	4	Washer
	12	M12-6gx30.88.35.019 GOST 7796-70	2	Bolt
	13	M12-6H.6.019 GOST 5915-70	3	Nut
	14	923-6700111	2	Bushing
	15	80-8405030-Б	1	Bracket
		80-8405030-Б-01 ¹⁾	1	Bracket (of right foot step - against order)
	16	80-8405032-Б	1	Bracket
	17	M10-6gx30.88.35.019 GOST 7796-70	2	Bolt

¹⁾ During the installation of the standard fuel tank (1221-1101510 or ЯБАГ1221-1101510).



Cords installation from the other side



1)
Fig.87.1. Control of MMZ Tier-3a Engine (D-245.2S3A)

BELARUS
1220.1/1220.3/1220.4

Group 87. Control System
Subgroup 8700. Engine Control

Fig.No	Pos.No	Designation	Q-ty	Name
87.1		1025.4-8700910-M		Engine control
	1	3761.085 ¹⁾	1	Detection cable extender 245-3724260
	2	3761.084 ¹⁾	1	Injection cable extender 245-3724360
	3	80-3723045-01	16	Collar
	4	1025.4-3724961-M	1	Cord
	5	B.M4-6gx20.58.019 GOST 17474-80	6	Screw
	6	1221.4-8700916-M	1	Panel
	7	3803.55	1	Orange control light
	8	3761.060	1	Lighter 116.3725
	9	3761.086	1	Information display 948013
	10	B.M4-6gx10.58.019 GOST 17473-80	4	Screw
	11	4 OST 37.001.115-75	4	Washer
	12	BK12-1	1	Switch
	13	1221.4-3724801	1	Cord
	14	B.M4-6gx16.58.019 GOST 17473-80	2	Screw
	15	M4-6H.6.019 GOST 5927-70	2	Nut
	16	C4.01.019 GOST 11371-78	2	Washer
	17	4 OST 37.001.115-75	2	Washer
	18	3761.061	1	Socket 25.038.100
	19	B.M3-6gx16.58.019 GOST 17473-80	4	Screw
	20	M3-6H.6.019 GOST 5927-70	4	Nut
	21	C3.01.019 GOST 11371-78	4	Washer
	22	3T OST 37.001.115-75	4	Washer
	23	M8-6gx16.88.35.019 GOST 7796-70	5	Bolt
	24	M8-6H.6.019 GOST 5915-70	5	Nut
	25	C8.01.019 GOST 6958-78	5	Washer
	26	8T OST 37.001.115-75	5	Washer
	27	1221.4-8700930-M	1	Bracket
	28	M6-6gx35.88.35.019 GOST 7798-70	4	Bolt
	29	C6.01.019 GOST 11371-78	4	Washer
	30	6T OST 37.001.115-75	8	Washer
	31	3761.083 ¹⁾	1	Control block EDC7UC31
	32	3761.50	1	Switching and protection unit 1000
	33	M6-6gx14.88.35.019 GOST 7798-70	4	Bolt
	34	1221.4-8700913	2	Ring
	35	923-3723012	2	Clamp
	36	1221.4-3724845-01	1	Cord
	37	ПР-32-02	1	Seal

¹⁾ A part of engine set of OAO MMZ

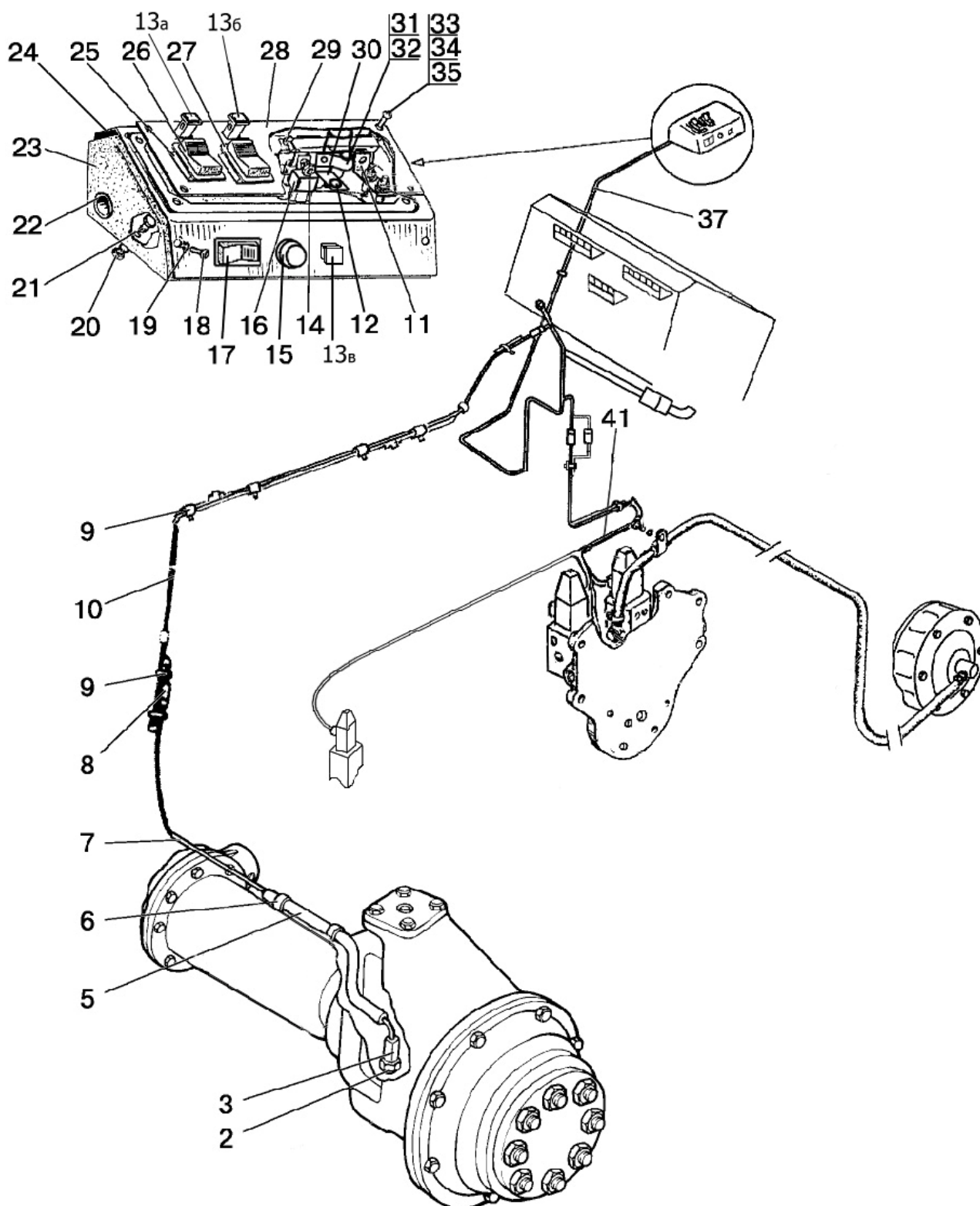


Fig. 87.2. Control of FDA, DL of Rear Axle and Front PTO Shaft (with GB 16Fx8R)

BELARUS
1220.1/1220.3/1220.4

Group 87. Control System
Subgroup 8700. Control of FDA, DL of Rear Axle and Front PTO Shaft
(Electrical Parts)

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
87.2		1221-8700210-Д-03¹⁾		Control of DL, FDA and front PTO shaft
	2	50-1702048	10max	Shim
	3	3710.71	1	Open switch with ball
	5	822-8700021	1	Pipe
	6	1221-870022	2	Clamp
		M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
		8T OST 37.001.115-75	2	Washer
	7	1221-3724840-B	1	Cord
	8	602602 OST 37.003.032-88	1	Female socket
	9	80-3723045	20	Collar
	10	1222-3724850	1	Cord
	11	1522-8700221	1	Bracket
	12	1522-8700222	1	Bushing
	13a	3803.45	1	Control light of FDA
	13б	3803.40	1	Control light of DL
	13в	3803.70	1	Control light of front PTO shaft
	14	M6-6H.6019 GOST 5915-70	2	Nut
		6T OST 37.001.115-75	2	Washer
	15	BK12-1	1	Switch
	16	3747.50	4	Cut-in relay 30A
	17	3709.75	1	Switch of PTO shaft
	18	BM6-6gx12.58.019 GOST 17473-80	4	Screw
	19	6T OST 37.001.115-75	4	Washer
	20	M6-6H.6.019 GOST 5615-70	3	Nut
		6T OST 37.001.115-75	3	Washer
		C6.01.019 GOST 11371-78	3	Washer
	21	M6-6gx30.80.35.019 GOST 7798-70	2	Bolt
	22	70-3723042-01	1	Bushing
	23	1221-6700420	1	Base
	24	1221-6700411-01	1	Cover
	25	80-3801021	3	Jack for disconnect switches
	26	3709.70	1	FDA switch
	27	3709.65	1	DL switch
	28	1221-8700416	1	Panel
	29	BM6-6gx16.58.019 GOST 17473-80	3	Screw
	30	1522-8700221-A	1	Bracket
	31	1321-8700019	1	Clamp
	32	ПР-32-01	1	Seal
	33	BM5-6gx12.58.019 GOST 17475-80	4	Screw
	34	M5-6H.6.019 GOST 5915-70	4	Nut
	35	5T OST 37.001.115-75	4	Washer
	37	1221-3724940	1	Cord
	41	1221-3724950-Д	1	Cord

¹⁾ For tractors BELARUS-1220.1/1220.3

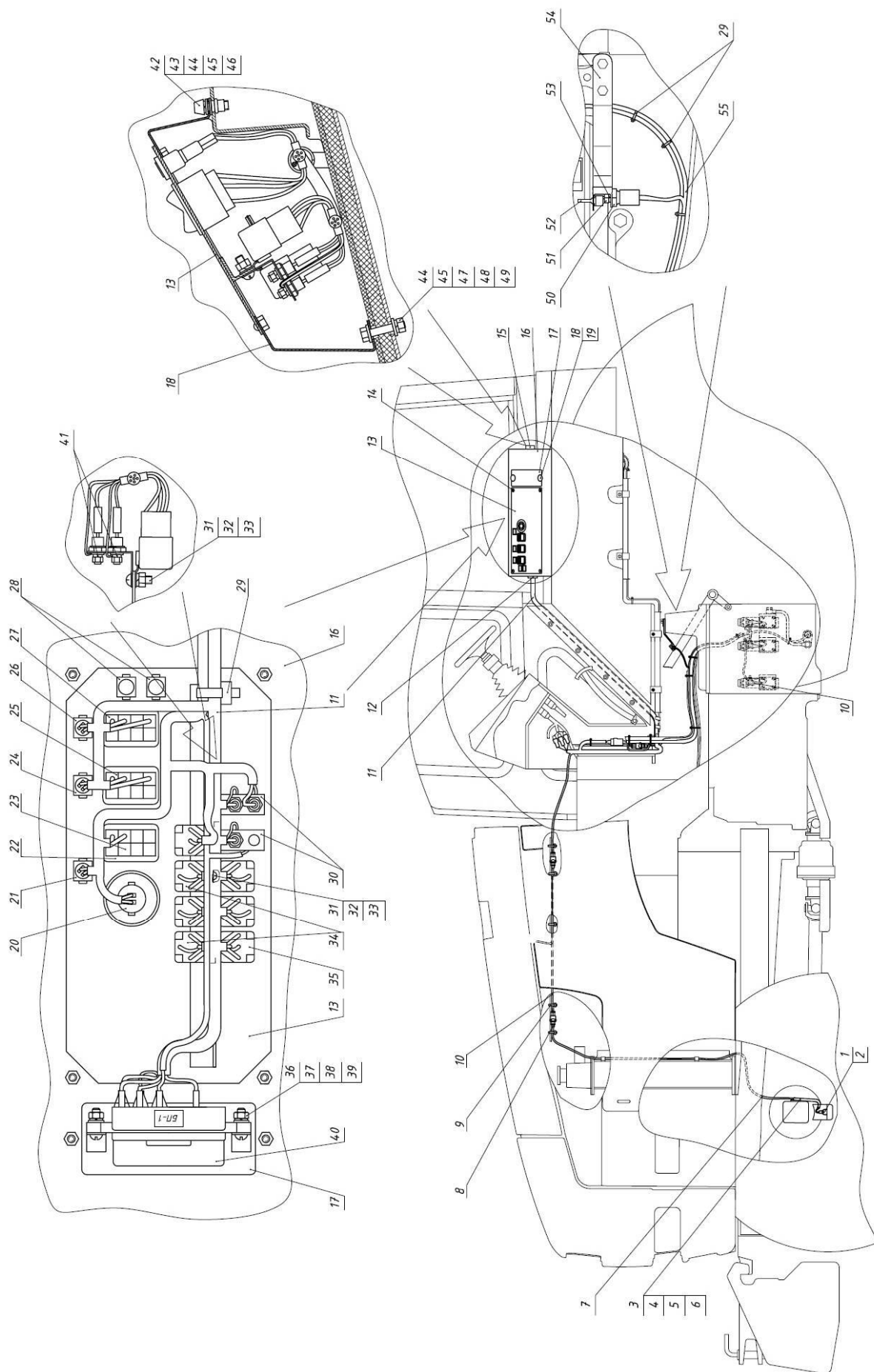


Fig. 87.3. Control of FDA, DL of Rear Axle and Front PTO Shaft (with GB 16Fx8R)
(for Tractors 1220.4)

BELARUS**1220.1/1220.3/1220.4****Group 87. Control System****Subgroup 8700. Control of FDA, DL of Rear Axle and Front PTO Shaft (Electrical Parts)**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
87.3		1220-8700210 ¹⁾		Control of DL, FDA and front PTO shaft
		1220-8700210-01 ²⁾		
	1	3710.70	1	Start locking switch
	2	50-1702048	10max	Shim
	3	822-8700021	1	Pipe
	4	1221-8700022	2	Clamp
	5	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	6	8T OST 37.001.115-75	2	Washer
	7	1022-3724840-B	1	Cord
	8	0-0106462-1	1	Male socket
	9	80-3723045-01	15	Collar
	10	922-3724850	2	Cord
	11	1220-3724820	1	Cord
	12	70-3723042-02	1	Bushing
	13	1221-8700265	1	Panel
	14	B.M6-6gx20.58.019 GOST 17474-80	4	Screw
	15	50-4607064 ²⁾	1	Bushing
	16	1221-8700290 ¹⁾	1	Panel
		1022-8700290 ²⁾		
	17	1221-8700275	1	Board
	18	80-3805065	2	Screw
	19	006-010-25-1-4	2	Ring
		GOST 18829-73/GOST 9833-73		
	20	BK 12-1 ЦИКС.342241.001 TU	1	Switch
	21	3803.50	1	Control light of rear PTO shaft
	22	80-3801021	3	Jack for disconnect switches
	23	3709.75	1	Switch of PTO shaft
	24	3803.40	1	Control light of DL
	25	3709.65	1	DL switch
	26	3803.45	1	Control light of FDA
	27	3709.70	1	FDA switch
	28	3803.125	2	Control light 12.3803-41 TU ПБ 300228919.037-2002
	29	80-3723045	3	Collar
	30	1522-8700221	2	Bracket
	31	B.M6-6gx16.58.019 GOST 17473-80	5	Screw
	32	M6-6H.6.019 GOST 5915-70	5	Nut
	33	6T OST 37.001.115-75	5	Washer
	34	3747.40	2	Cut-out relay 20A
	35	3747.50	5	Cut-in relay 30A
	36	B.M6-6gx20.58.019 GOST 17473-80	2	Screw
	37	M6-6H.6.019 GOST 5915-70	2	Nut
	38	C6.01.019 GOST 6958-75	2	Washer
	39	6T OST 37.001.115-75	2	Washer
	40	БП-1 TU ПБ 03428193.095-97	1	Fuse block
	41	5T OST 37.001.115-75	4	Washer
	42	A30.04.017	2	Cap
	43	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	44	C6.01.019 GOST 6958-78	4	Washer
	45	6T OST 37.001.115-75	4	Washer
	46	M6x16,0 TU BY 161.01-2008	2	Rivet-nut
	47	M6-6gx30.88.35.019 GOST 7798-70	2	Bolt
	48	M6-6H.6.019 GOST 5915-70	2	Nut

¹⁾ For tractors BELARUS-1220.4 (engine D-245.2S3AM with Mercer system)²⁾ For tractors BELARUS-1220.4 (engine D-245.2S3A with Common Rail system)

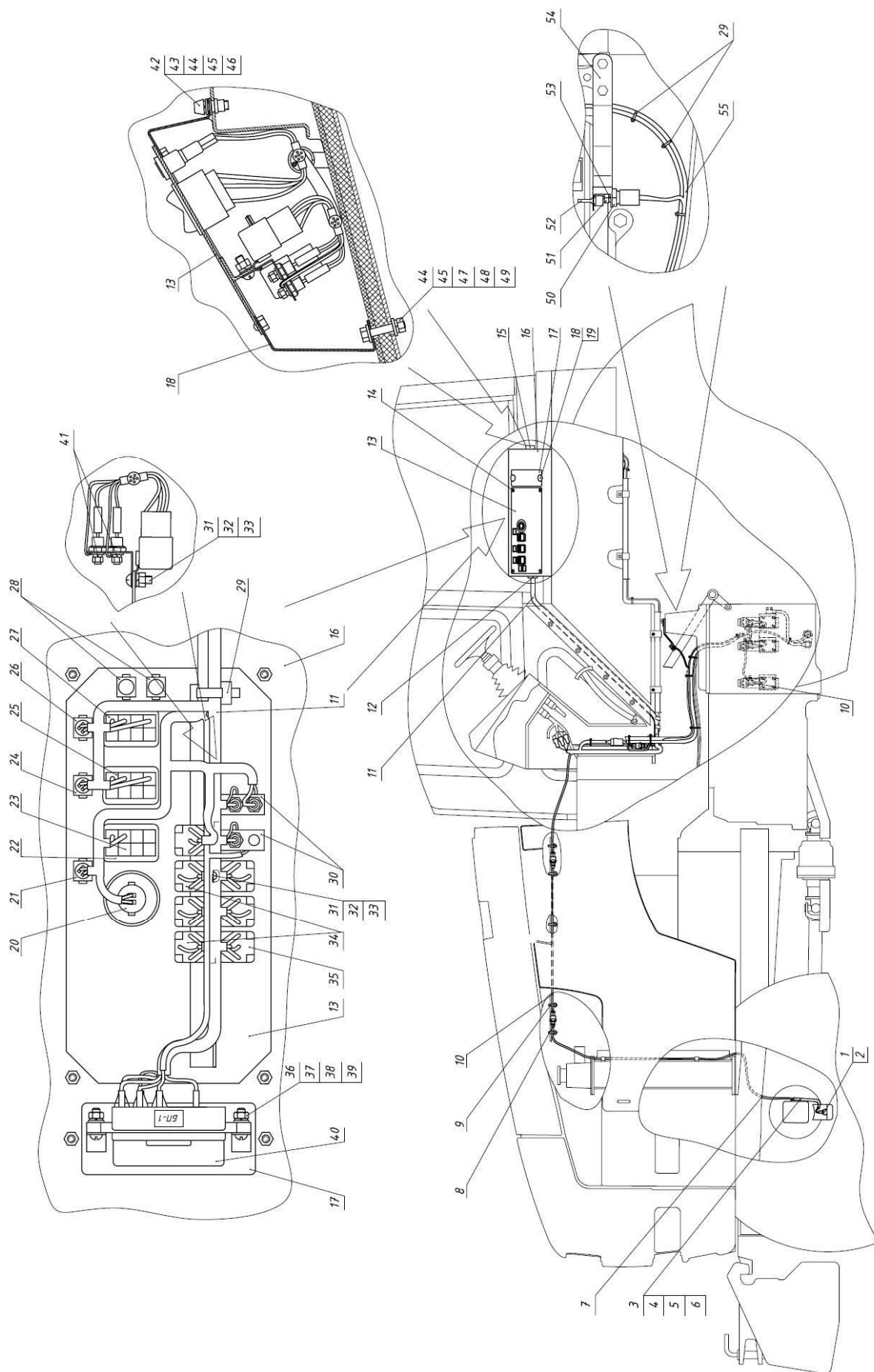


Fig. 87.3. Control of FDA, DL of Rear Axle and Front PTO Shaft (with GB 16Fx8R)
(for Tractors 1220.4)

BELARUS**1220.1/1220.3/1220.4****Group 87. Control System****Subgroup 8700. Control of FDA, DL of Rear Axle and Front PTO Shaft (Electrical Parts)**

Fig.No	Pos. No	Assembly unit or part No	Q-ty	Name
87.3	49	C6.01.019 GOST 11371-78	2	Washer
	50	BK 12-21 TU PБ 07512465.01794	1	Switch
	51	M14x1,5-6H.6.04.019 GOST 5916-70	1	Nut
	52	85-3710032	1	Lever
	53	14 OT OST 37.001.115-75	1	Washer
	54	1025-8700430	1	Bracket
	55	1220-3724830	1	Cord

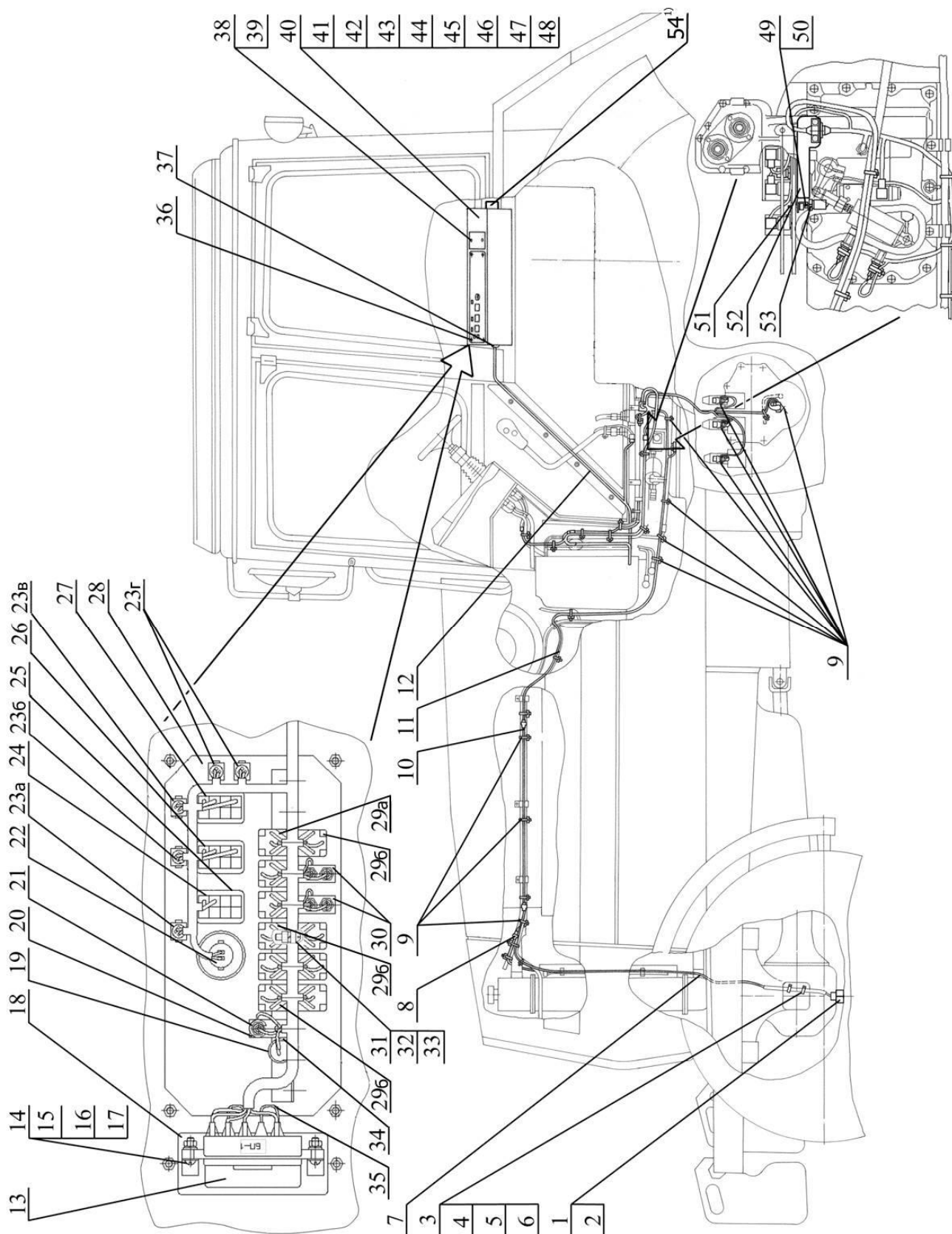


Fig. 87.4. Control of FDA, DL of Rear Axle, Rear PTO Shaft and Reduction Gear Unit
(with GB 24Fx12R)

Group 87. Control System

Subgroup 8700. Control of FDA, DL of Rear Axle, Rear PTO Shaft and Reduction Gear Unit (Electrical Parts)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
87.4		1221-8700250-Д-05 ¹⁾	1	Control of DL, FDA, PTO shaft and reduction gear unit
		1221-8700250-Д-06 ²⁾		
	1	3710.71	1	Open switch with ball
	2	50-1702048	10max	Shim
	3	822-8700021	1	Pipe
	4	1221-8700022	2	Clamp
	5	M8-6gx16.88.35.019 GOST 7796-70	2	Bolt
	6	8T OST 37.001.115-75	2	Washer
	7	1221-3724840-B	1	Cord
	8	602602 OST 37.003.032-88	1	Male socket
	9	80-3723045	24	Collar
	10	1222-3724850	1	Cord
	11	1221-3724970-Д	1	Cord
	12	1221-3724960	1	Cord
	13	БП-1	1	Fuse block
	14	B.M6-6gx20.58.019 GOST 17473-80	2	Screw
	15	M6-6H.6.019 GOST 5915-70	2	Nut
	16	C6.01.019 GOST 6958-78	2	Washer
	17	6T OST 37.001.115-75	2	Washer
	18	1221-8700275	1	Board
	19	ПР-32-01	1	Seal
	20	1522-8700221-A	1	Bracket
	21	1522-8700222	1	Bushing
	22	BK 12-1	1	Switch
	23a	3803.50	1	Control light of rear PTO shaft
	23б	3803.40	1	Control light of DL
	23в	3803.45	1	Control light of FDA
	23г	3803.55	2	Orange control light
	24	3709.75	1	Switch of PTO shaft
	25	80-3801021	3	Jack for disconnect switches
	26	3709.65	1	Switch of DL
	27	3709.70	1	Switch of FDA
	28	1221-8700265	1	Panel
	29a	3747.50	7	Cut-in relay 30A
	29б	3747.40	3	Cut-out relay 20A
	30	1522-8700221	2	Bracket
	31	B.M6-6gx12.58.019 GOST 17473-80	7	Screw
	32	M6-6H.6.019 GOST 5915-70	7	Nut
	33	6T OST 37.001.115-75	7	Washer
	34	1321-8700019	1	Clamp
	35	80-3724410-06	2	Wire
	36	B.M6-6gx20.58.019 GOST 17474-80	4	Screw
	37	70-3723042-02	1	Bushing
	38	80-3805065	2	Screw
	39	006-010-25-1-4 GOST 18829-73/9833-7	2	Ring
	40	1221-8700290 ¹⁾	1	Pult
		1022-8700290 ²⁾		
	41	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	42	M6-6gx30.88.35.019 GOST 7798-70	2	Bolt
	43	M6-6H.6.019 GOST 5915-70	2	Nut
	44	C6.01.019 GOST 6958-78	4	Washer
	45	C6.01.019 GOST 11371-78	2	Washer

¹⁾ For tractors BELARUS-1220.1/1220.3 and BELARUS-1220.4 (engine D-245.2S3AM with Mercer system)

²⁾ For tractors BELARUS-1220.4 (engine D-245.2S3A with Common Rail system)

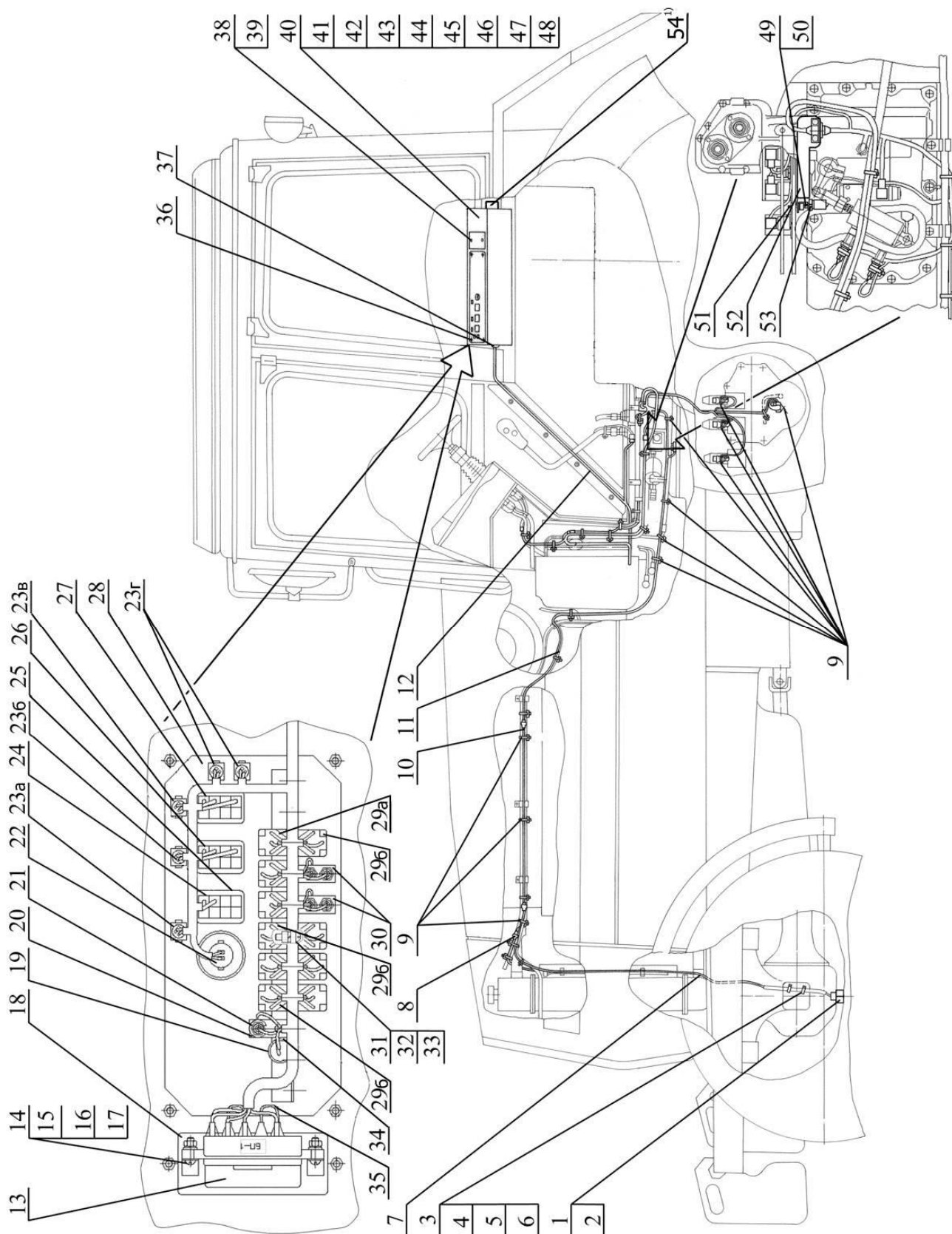


Fig. 87.4. Control of FDA, DL of Rear Axle, Rear PTO Shaft and Reduction Gear Unit
(with GB 24Fx12R)

BELARUS **1220.1/1220.3/1220.4**

Group 87. Control System

Subgroup 8700. Control of FDA, DL of Rear Axle, Rear PTO Shaft and Reduction Gear Unit (Electrical Parts)

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
87.4	46	6T OST 37.001.115-75	4	Washer
	47	A30.04.017	2	Cap
	48	M6x16	2	Rivet-nut
	49	M14x1,5-6H.6.019 GOST 5915-70	1	Nut
	50	14 OT OST 37.001.115-75	1	Washer
	51	1221-8700286	1	Lever
	52	1221-8700280	1	Bracket
	53	BK 12-2	1	Switch
	54	50-4607064 ²⁾	1	Bushing

¹⁾ For tractors BELARUS-1220.1/1220.3 and BELARUS-1220.4 (engine D-245.2S3AM with Mercer system)

²⁾ For tractors BELARUS-1220.4 (engine D-245.2S3A with Common Rail system)

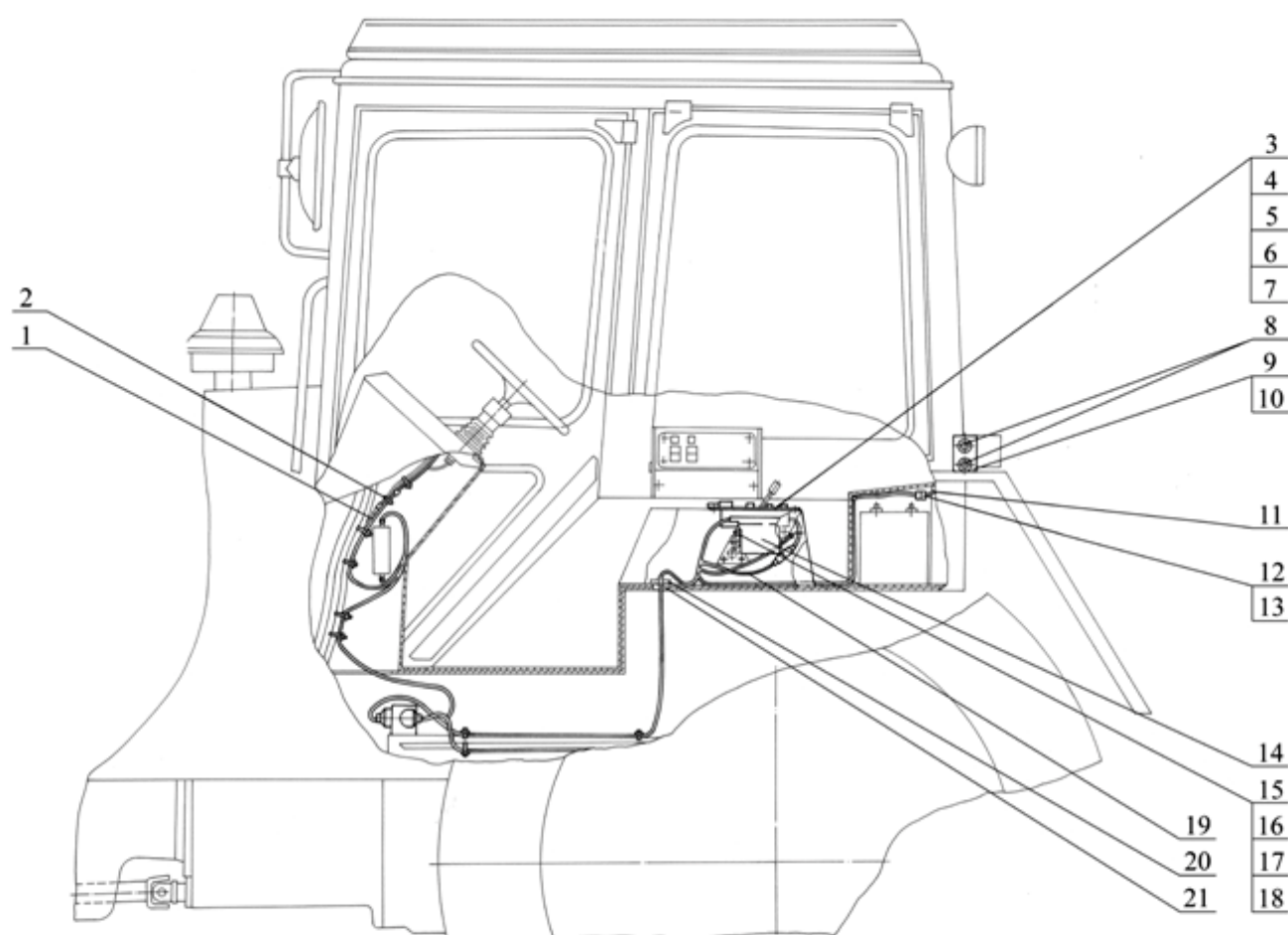


Fig. 87.5. Control of Rear Lift Linkage

BELARUS

1220.1/1220.3/1220.4

Group 87. Control System
Subgroup 8700. Control of Rear Lift Linkage

Fig.No	Pos.No	Assembly unit or part No	Q-ty	Name
87.5		1221-8700610¹⁾		Control of lift linkage
	1	1221-3724895	1	Cord
	2	80-3723045-01	14	Collar
	3	0538201611	1	Control panel
	4	BM4-6gx10.58.019 GOST 17475-80	4	Screw
	5	M4 -6H.6.019 GOST 5915-70	4	Nut
	6	C4 .01.019 GOST 6958-78	4	Washer
	7	4 OST 37.001.115-75	4	Washer
	8	145000AB	4	Button switch
	9	1221-8700620	1	Bracket
	10	1221-8700620-01	1	Bracket
	11	1221-3724885	2	Cord
	12	602604 OST 37.003.032-88	2	Female socket
	13	502604 OST 37.003.032-88	2	Male socket
	14	R 917004743	1	Electronic unit
	15	M6-6gx16.88.35.019 GOST 7798-70	2	Bolt
	16	M6-6H.6.019 GOST 5915-70	2	Nut
	17	6T OST 37.001.115-75	2	Washer
	18	A 30.04.017	2	Cap
	19	1221-3724890	1	Cord
	20	80-6702402-Б-04	1	Plate
	21	70-3723042-02	1	Bushing

¹⁾ For tractors BELARUS-1220.4