



SK-60 Engine

VERSION 2024-3

PART LIST



PARTS LIST CATALOGUE

NORMS TO PLACE AN ORDER

For fast and more efficient service, please specify the following information on spare parts orders that must be preferably done by e-mail as specified below:

- 1- Engine model: As shown in identification plate
- 2- Engine serial number: As shown in identification plate and stamped on crankcase
- 3- Item description + part number + quantity required

Spare parts requests must be addressed to :

orders@solediesel.com

Telf.: +34 93 775 44 05

The components shown in the catalog have:

- Figure: Number by which they are represented in scheme
- Description: Trade name of the component
- Quantity: Total number of parts used in the assembly of the part represented (may differ from the total minimum quantities)

Hoses, indicates the total length in meters

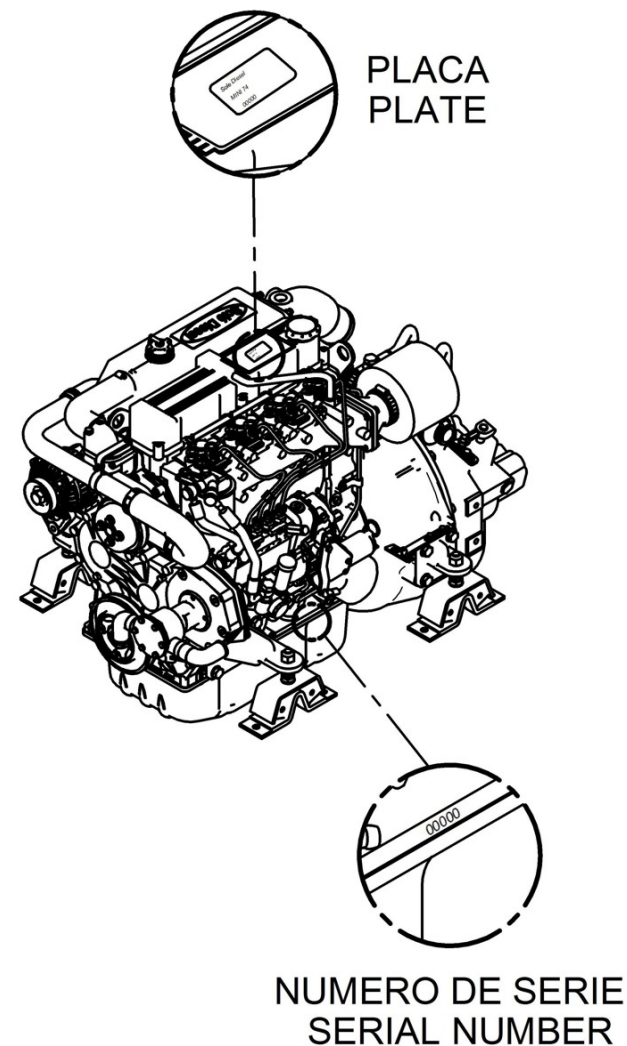
The diagrams shown in this catalog of spare parts, have only the purpose to identify the piece in question, its representation is not meaningful and may differ from the actual piece.

In case of doubt, contact Solé Diesel, or your authorized dealer.

The parts i / or references in this catalog are subject to change without notice.

SOLÉ, S.A.

C-243b, km, 2 - P.O. BOX 25
08760 Martorell (Barcelona) Spain



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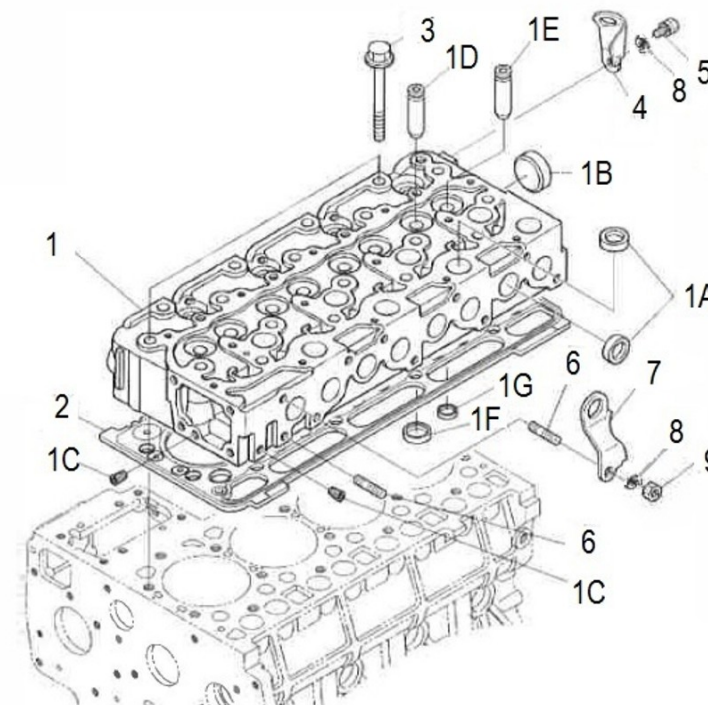
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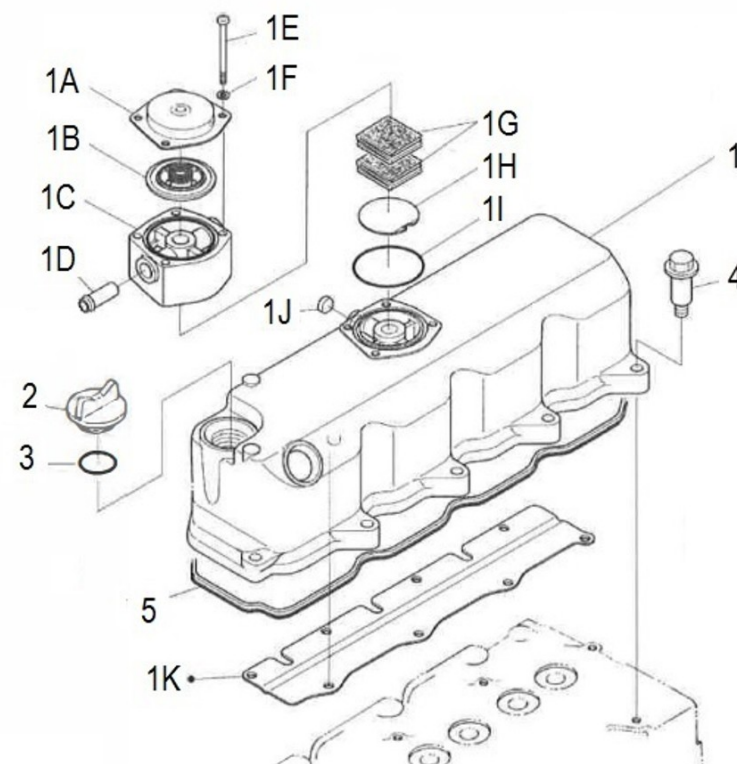
Kit GearBox TM-93/A
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D_SKA1_1_1		Cylinder Head			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A021001	1	Cylinder Head		
1A	1A020013	12	Plug		
1B	1A020014	1	Cap Sealing		
1C	1A020015	2	Plug		
1D	1A021002	4	Valve Guide		
1E	1A021003	4	Valve Guide		
1F	1A020016	4	Seat, Inlet Valve		
1G	1A020017	4	Seat, Exhaust Valve		
2A	1A021005	1	Gasket, Cylinder head 1,15mm		
2B	1A021004	1	Gasket,Cylinder Head STD		
2C	1A021006	1	Gasket, Cylinder head 1,25mm		
2D	1A021007	1	Gasket, Cylinder head 1,30mm		
2E	1A021008	1	Gasket, Cylinder head 1,35mm		
3	1A021010	18	Bolt, Cylinder head		
4	1A021018	1	Support CANIAGE Front		
5	1A021011	1	Stud		
6	1A021012	2	Support CANIAGE Front		
7	1A021014	1	Bolt		
8	1A021013	2	Washer spring		
9	1A021015	1	Nut		

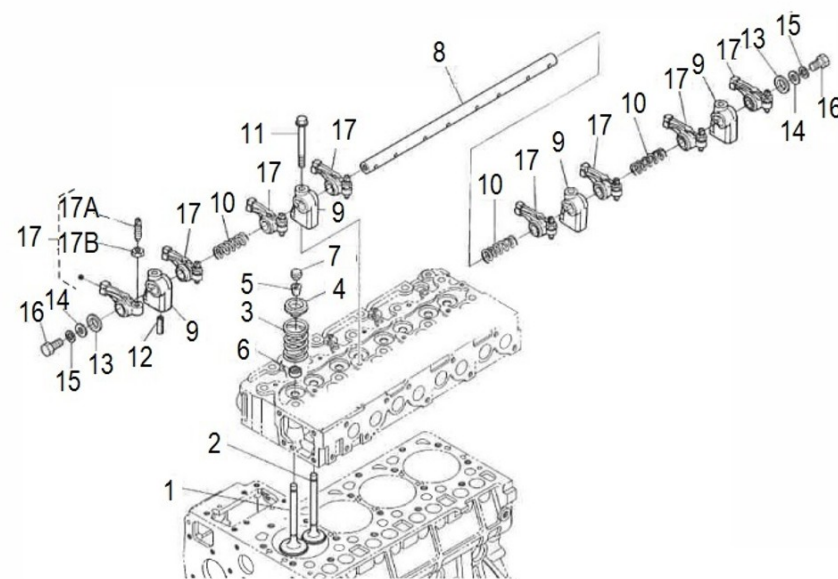


D_SKA1_1_2 Rocker Cover & Breather

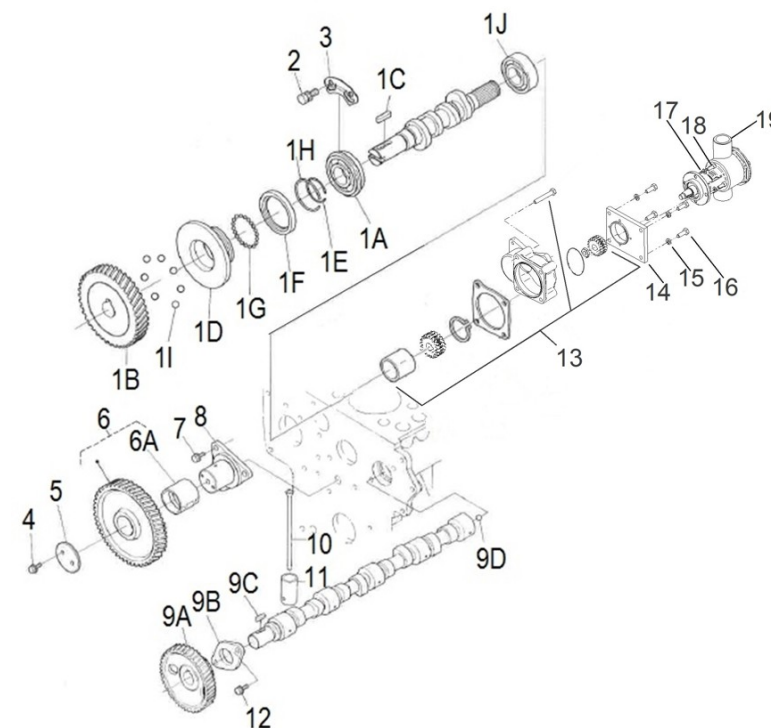
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A021037	1	Rocker Cover			
1A	1A021038	1	Cover Breather			
1B	1A021039	1	Valve Breather			
1C	1A021040	1	Spacere (Breather)			
1D	1A021041	1	Pipe, Water Return			
1E	1A021042	4	Bolt			
1F	1A021043	4	Washer			
1G	1A021044	2	Breather Element			
1H	1A021045	1	Protector ,Oil Inlet			
1I	1A021046	1	O-Ring			
1J	1A021047	1	Cap, Sealing			
1K	(*)	1	Not available			
2	1A021016	1	Cap Oil Filler			
3	1A021017	1	O-Ring			
4	1A021019	10	Bolt			
5	1A021009	1	Gasket,Head Cover			



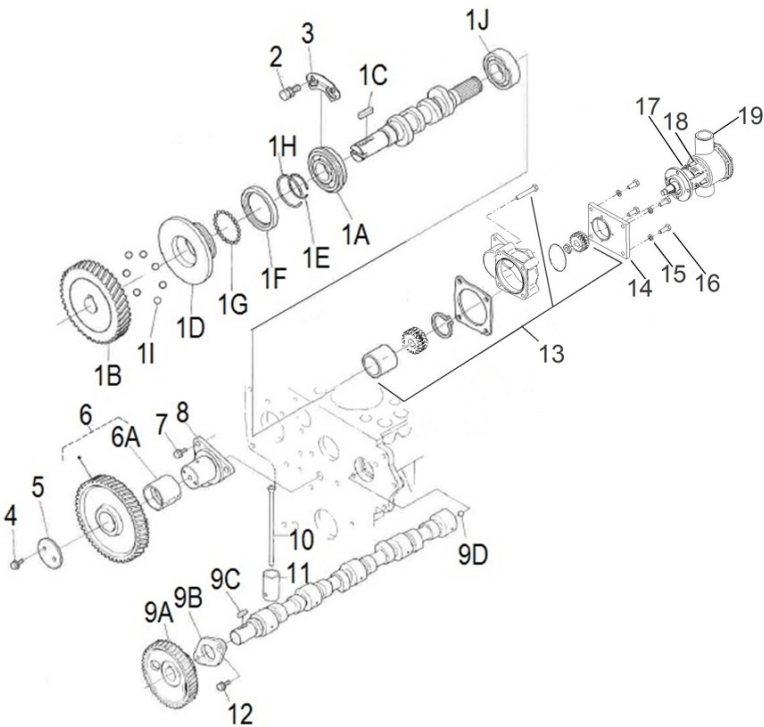
D_SKA1_1_3		Valve Drive				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A022055	4	Intake Valve			
2	1A022056	4	Exhaust Valve			
3	1A022028	8	Spring, Valve			
4	1A022058	8	Seal,oil			
5	1A022059	8	Cotter, Valve			
6	1A022054	8	Seal,oil			
7	1A022024	8	Cap			
8	1A022062	1	Shaft Rocker Arm			
9	1A022048	4	Bracket, Rocker Arm			
10	1A022047	3	Spring			
11	1A022053	4	Bolt			
12	1A022049	1	Spring			
13	1A022050	2	Washer			
14	1A022051	2	Washer Plain			
15	1A021013	2	Washer spring			
16	1A022046	2	Bolt			
17	1A022042	8	Rocker, Assy			
17A	1A022060	8	Screw (Adjusting)			
17B	1A022044	8	Nut			



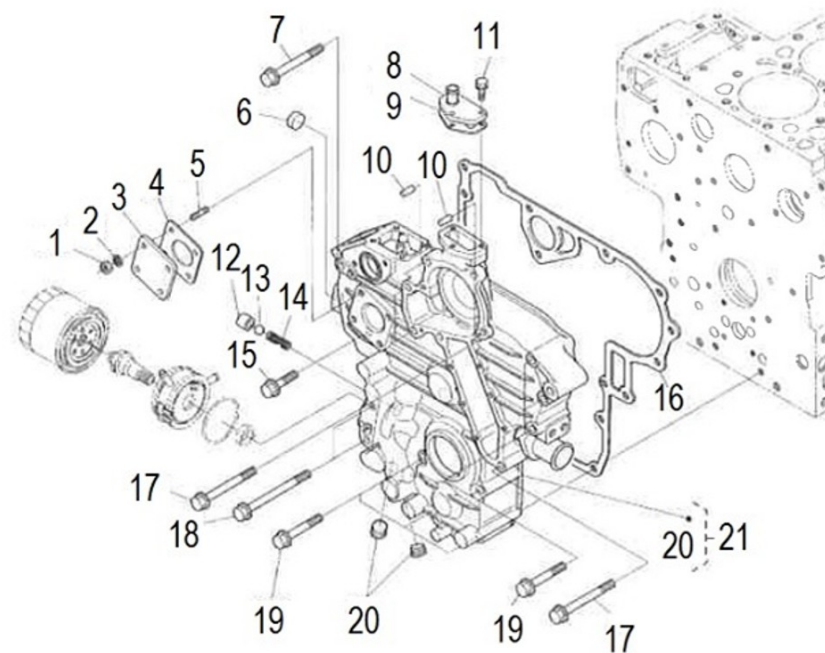
D_SKA1_1_4		Timing Parts			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A022083	1	Camshaft, Assy (Fuel)		
1A	1A022086	1	Bearing		
1B	1A022087	1	Gear		
1C	1A022088	1	Key		
1D	1A022089	1	Housing Assy		
1E	1A022090	1	Cir-Clip		
1F	1A022091	1	Cover		
1G	1A022092	39	Ball 5/32		
1H	1A022093	1	Cir-Clip		
1I	1A022094	7	Ball		
1J	1A022095	1	Bearing		
2	1A022084	2	Bolt		
3	1A022085	1	Stopper		
4	1A022010	2	Bolt		
5	1A022032	1	Collar, Idle Gear		
6	1A022038	1	Gear Set MEC		
6A	1A022096	1	Bushing		
7	1A022039	3	Bolt		
8	1A022040	1	Intermediate Shaft		
9	1A022037	1	Timing Parts		
9A	1A022097	1	Gear CamShaft		
9B	1A022098	1	Stopper		
9C	1A022099	1	Key		
9D	1A022100	1	Ball 1/4		
10	1A022041	8	Rod, Push		
11	1A022061	8	Tappet		
12	1A022080	2	Bolt		
13	1A021020R	1	Kit Power Take-off		
14	1A010010	1	Block, water pump		
15	53033008	4	Washer GROWER DIN 127-8		
16	52102257	4	Bolt DIN 933 M8-20 8.8		



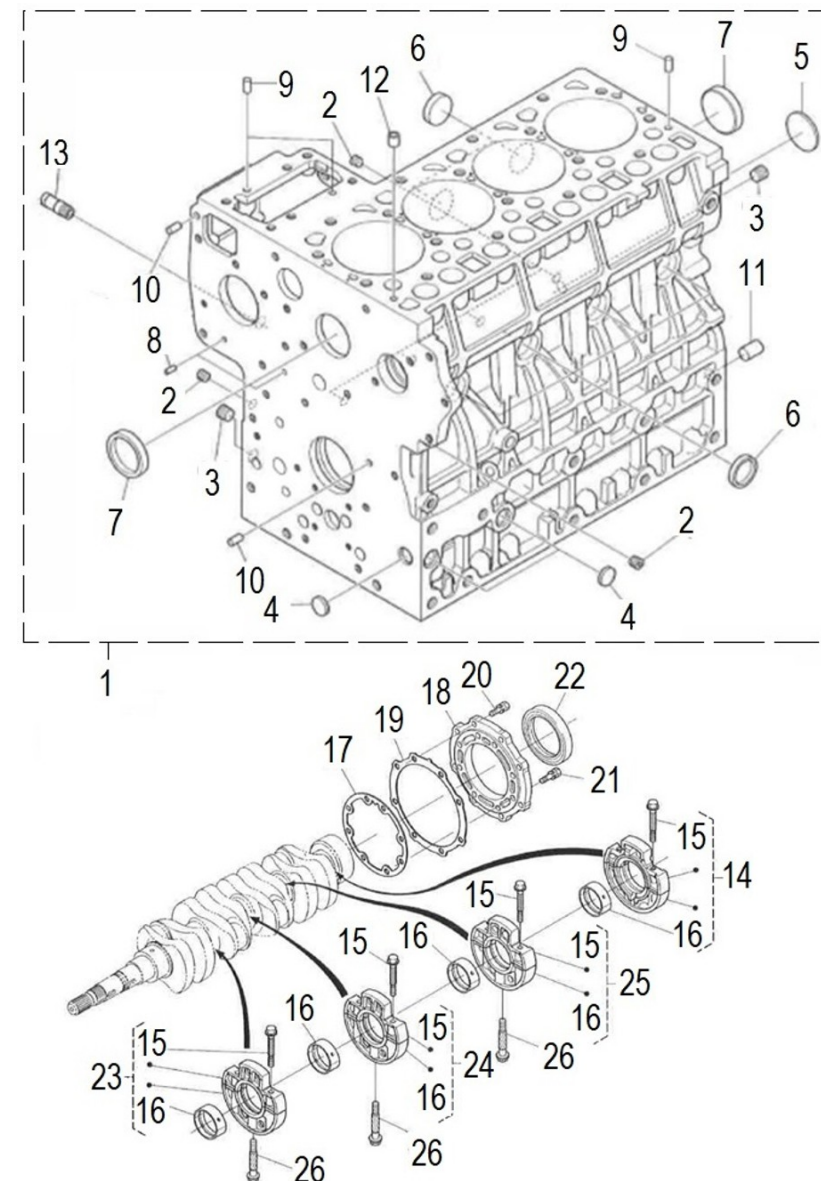
D_SKA1_1_4		Timing Parts				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
17	51030006	4	Washer DIN 125-6			
18	52103156	4	Bolt DIN 912 M6-16 8.8			
19	3A011000	1	Key Pump 1"			



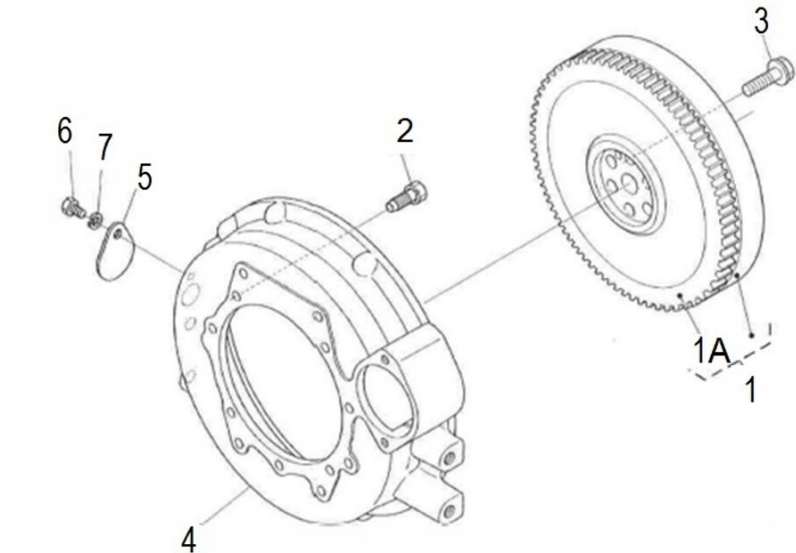
D_SKA1_1_5		Gear Case			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A020070	4	Nut		
2	1A020071	4	Washer		
3	1A020072	1	Cover		
4	1A020073	1	Gasket		
5	1A020074	4	Stud		
6	1A020075	1	Plug		
7	1A020047	1	Bolt		
8	1A020076	1	Bolt, Flange		
9	1A020077	1	Gasket		
10	1A020078	2	Stud		
11	1A020079	3	Bolt		
12	1A020080	1	Seat Valve		
13	1A020081	1	Ball		
14	1A020082	1	Spring		
15	1A020083	1	Bolt		
16	1A020040	1	Gasket, Gear Case		
17	1A020084	4	Bolt		
18	1A020085	2	Bolt		
19	1A020086	7	Bolt		
20	1A020087	2	Plug		
21	1A020035	1	Case Gear		



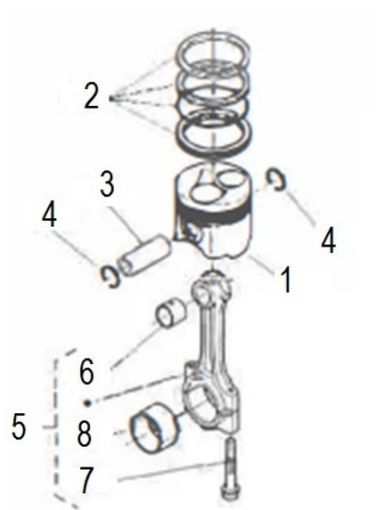
D_SKA1_1_6		Crackcase			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A020050	1	Comp. Crankcase		
2	1A020051	6	Plug		
3	1A020022	2	Plug		
4	1A020023	3	Plug Expansion		
5	1A020024	1	Plug Expansion		
6	1A020025	6	Cap, Sealing		
7	1A020026	2	Cap, Sealing		
8	1A020036	2	Stud		
9	1A020019	3	Stud		
10	1A020078	2	Stud		
11	1A020011	1	Stud		
12	1A020020	1	Pipe		
13	1A020027	1	Pipe		
14	1A022104	1	Assy. Brg. Case, Wheel		
15	1A022105	8	Bolt, Bearing Case		
16A	1A022107	4	Metal, Crankshaft		
16B	1A022108	4	Metal, Crankshaft -0,2mm		
16C	1A022109	4	Metal, Crankshaft -0,4mm		
17	1A022110	1	Gasket, Bearing Case		
18	1A022111	1	Cover, Bearing Case		
19	1A022112	1	Gasket, Case Cover		
20	1A022113	8	Bolt, Sems		
21	1A021123	8	Bolt		
22	1A022115	1	Seal Oil		
23	1A022117	1	Assy Btg. Case, Main		
24	1A022119	1	Assy Btg. Case, Main		
25	1A022121	1	Assy Btg. Case, Main		
26	1A022122	3	Bolt, Bearing Case		



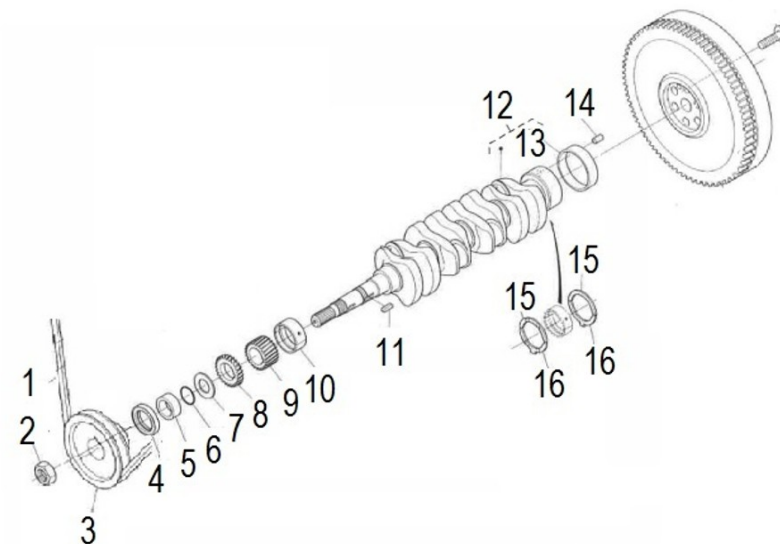
D_SKA1_1_7		Rear Plate & Flywheel				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A022027.1	1	Flywheel			
1A	1A020060	1	Gear			
2	1A027129	11	Bolt			
3	1A020061	6	Bolt			
4	1A020062	1	Carcasse Sur Volant			
5	1A020063	1	Cover			
6	1A022046	1	Bolt			
7	1A021013	1	Washer spring			



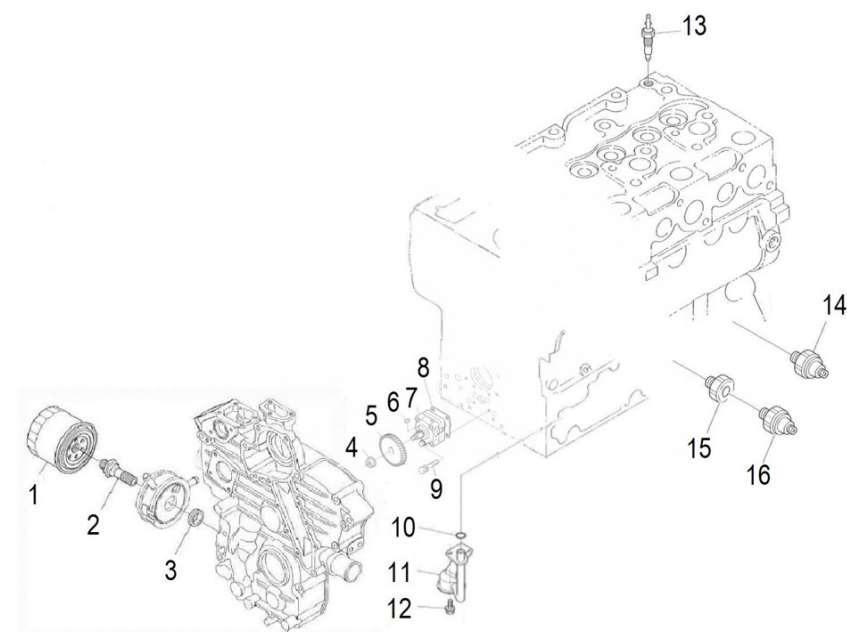
D_SKA1_1_8		Piston & Connectiong Rod				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1A	1A022005	4	Piston STD			
1B	1A022003	4	Piston +0,25			
2A	1A022009	4	Ring Set Piston STD			
2B	1A022008	4	Ring Set Piston +0,25			
3	1A022011	4	Pin			
4	1A022013	8	Cir-Clip			
5	1A022012	4	Rod Assy. Connecting			
6	1A022014	4	Metal (Pin, Crank)			
7	1A022015	8	Bolt			
8A	1A022018	4	Bearing STD			
8B	1A022016	4	Bearing -0,20mm			
8C	1A022017	4	Bearing -0,40mm			



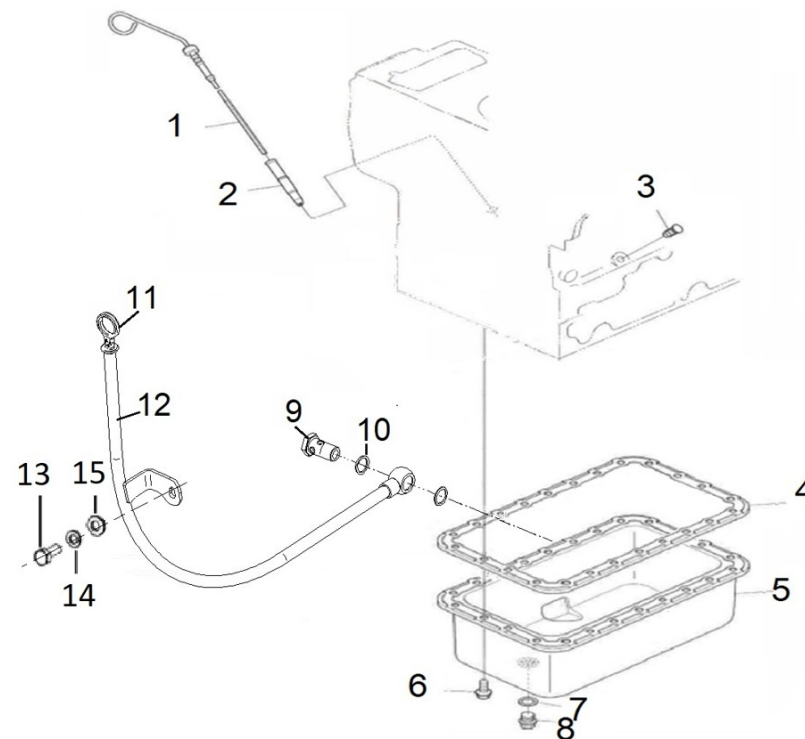
D_SKA1_1_9		Crankshaft				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17117020	1	Belt Type SPAX 1060			
2	1A022026	1	Nut, Crankshaft			
3	1A021024	1	Pulley			
4	1A022029	1	Seal,oil			
5	1A022030	1	Bushing			
6	1A022031	1	O-Ring			
7	1A022033	1	Oil Slinger			
8	1A022019	1	Gear Oil Pump			
9	1A033035	1	Gear			
10A	1A022070	1	Metal Crankshaft STD			
10B	1A022071	1	Metal Crankshaft -0,20mm			
10C	1A022072	1	Metal Crankshaft -0,400mm			
11	1A033034	1	Key			
12	1A022036	1	Crankshaft Assy			
13	1A022025	1	Bearing			
14	1A022069	1	Stud			
15A	1A022073	2	Metal Side STD			
15B	1A022074	2	Metal Side +0,20mm			
15C	1A022075	2	Metal Side +0,400mm			
16A	1A022076	2	Metal Side STD			
16B	1A022077	2	Metal Side +0,20mm			
16C	1A022078	2	Metal Side +0,400mm			



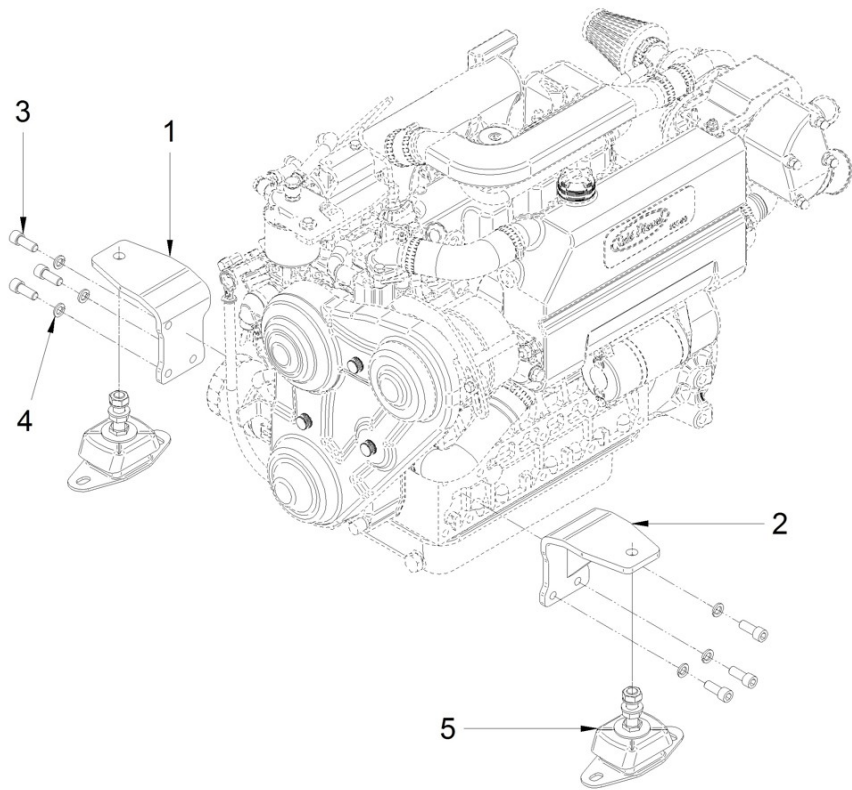
D_SKA1_1_10		Oil System				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A024051	1	Oil Filter Element SK-60			
2	1A024054	1	Connector			
3	1A024053	1	Spacer			
4	1A022045	1	Nut			
5	1A024066	1	Gear Oil Pump			
6	1A022057	1	Key			
7	1A022066	1	Pump Assy Oil			
8	1A022067	1	Gasket Oil Pump			
9	1A022068	4	Bolt			
10	1A024060	1	O-Ring			
11	1A020012	1	Suction Inner Filter			
12	1A024052	1	Bolt			
13	1A020041	1	Thermoswitch			
14	1A020042	1	Switch, Oil Pressure			
15	13817051	1	Sender Holder		19/01/2018	
15	17117052	1	Oil Pressure Sensor Adaptor			18/01/2018
16	60900985	1	Pressure Sensor			



D_SKA1_1_11		Oil Pan			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A020029	1	Gauge Oil Level		
2	1A020034	1	Guide		
3	1A022360	1	None		
4	1A020033	1	Gasket,Oil Pan		
5	1A020032	1	Oil Pan		
5	1A020046	1	Plug		
6	1A021082	24	Bolt		
7	1A020009.1	1	Oil Pan Drain Plug Gasket		
8	1A020008	1	Plug		
9	16514022	1	Coupling,screw 18x150		
10	56000077	2	Washer 18-23-1,5		
11	1A012029	1	Oil Dipstick		
12	1A012030	1	Tube Oil Gauge		
13	52101275	1	Bolt DIN 931 M8-120 8.8		
14	53033008	1	Washer GROWER DIN 127-8		
15	51030008	1	Washer DIN 125-8		



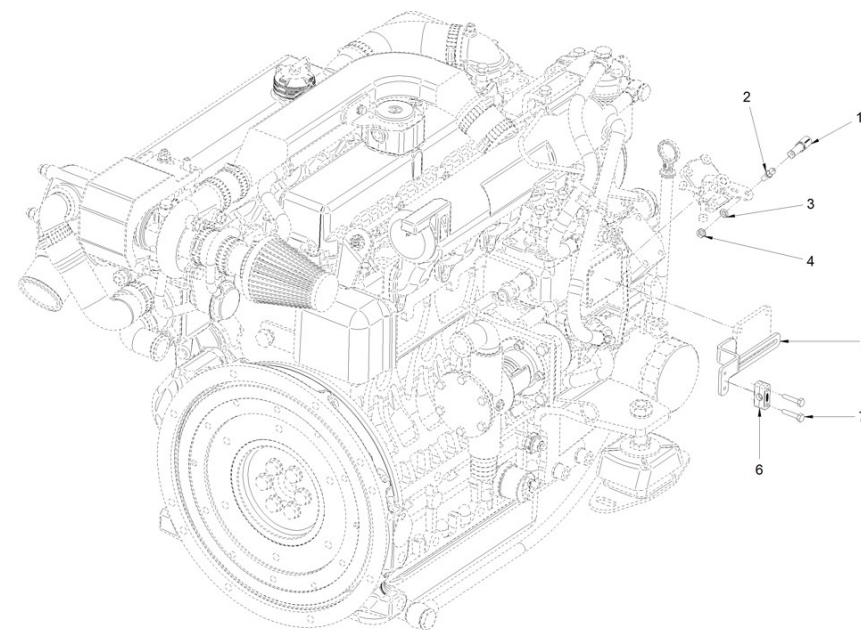
D_SKA1_1_12		Engine Brackets				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A010001	1	Bracket Front, Left			
2	1A010002	1	RIGHT, front bracket			
3	53203359	6	Bolt DIN 912 M12-1,25-30 12.9			
4	53033012	6	Washer Grower DIN 127-12			
5	61673100	2	Engine Mount Type D 45 SHA M16 H 114			



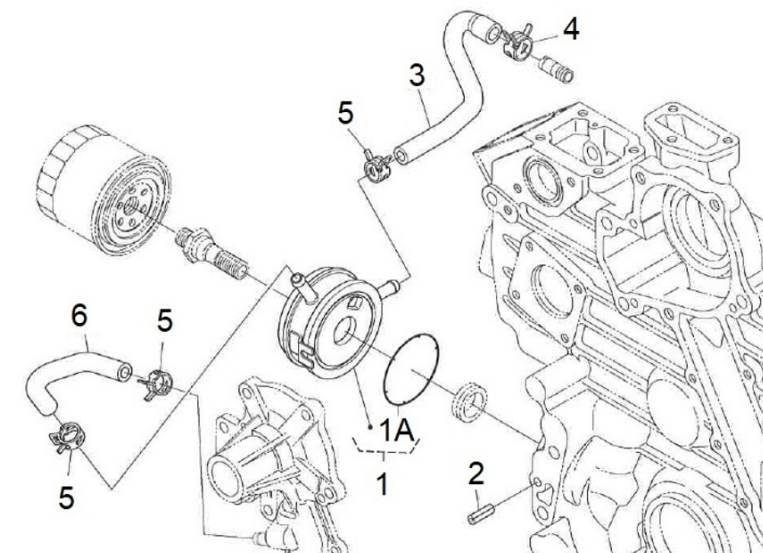
D_SKA1_1_13

Bracket, Engine Control

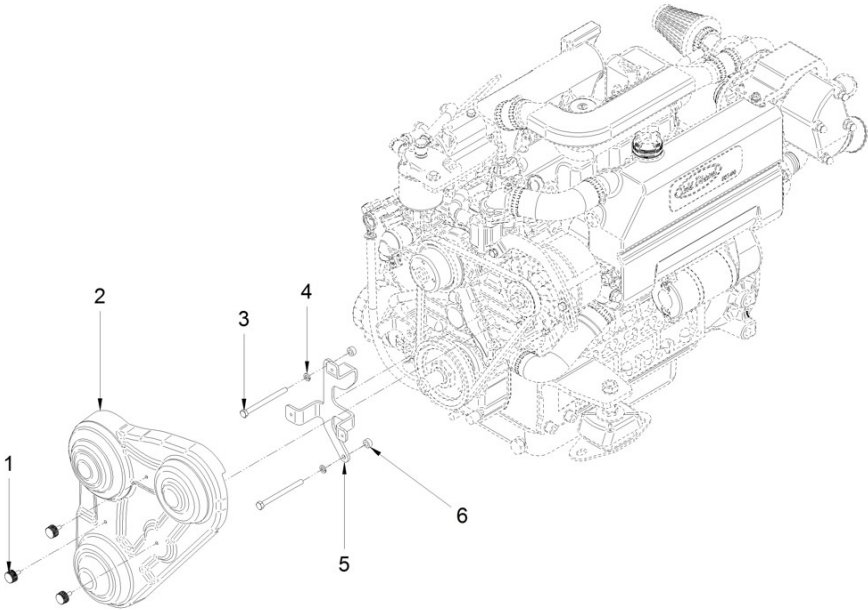
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	15119015	1	CABLE Holder Ball			
2	14419023	1	Ball JOINT			
3	53033006	2	Washer GROWER DIN 127-6			
4	52120006	2	Nut DIN 934 M6 8.8			
5	1A019001	1	Bracket, Engine Control			
6	13819001	2	Half Flange Morse Cable			
7	52102108	2	Bolt DIN 933 M5-20 8.8 CINCADO			



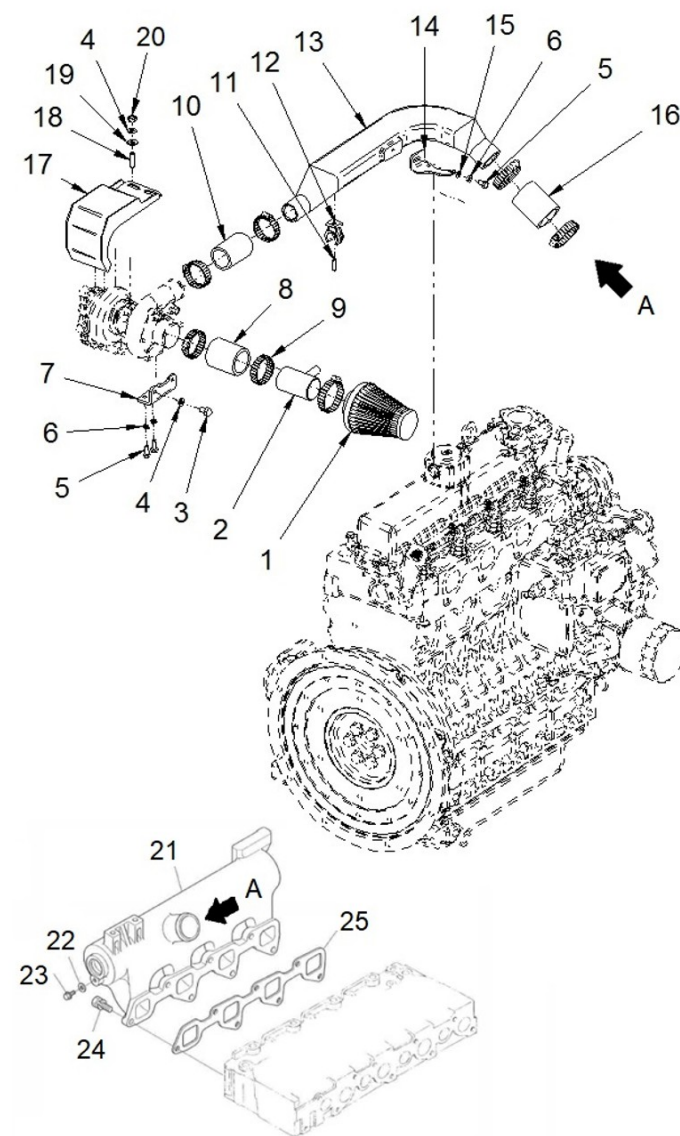
D_SKA1_1_14		Oil cooler				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A024085	1	Oil Plug			
1A	1A024086	1	O-Ring			
2	1A024087	1	Spring			
3	1A024088	1	House Oil Cooler			
4	1A024089	1	Clamp			
5	1A024090	3	Clamp			
6	1A024091	1	House Oil Cooler			



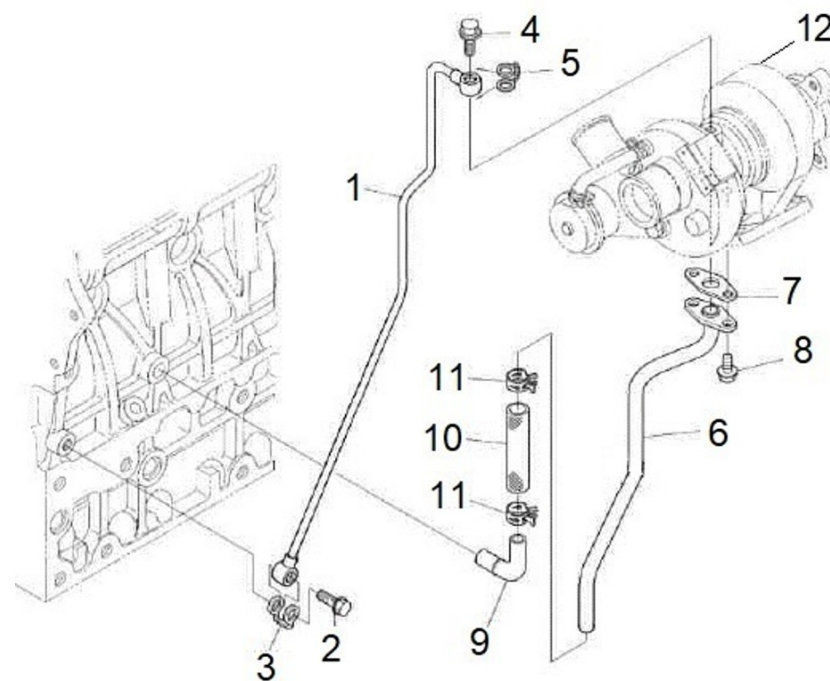
D_SKA1_1_15 Belt Protection					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	13810247	3	Grip Knob M6		
2	1A010021	1	Belt Protection		
3	52101273	2	Bolt DIN 931 M8-100 8.8		
4	53033008	2	Washer GROWER DIN 127-8		
5	1A010022	1	Bracket Protection Belt		
6	1A010023	2	Spacer		



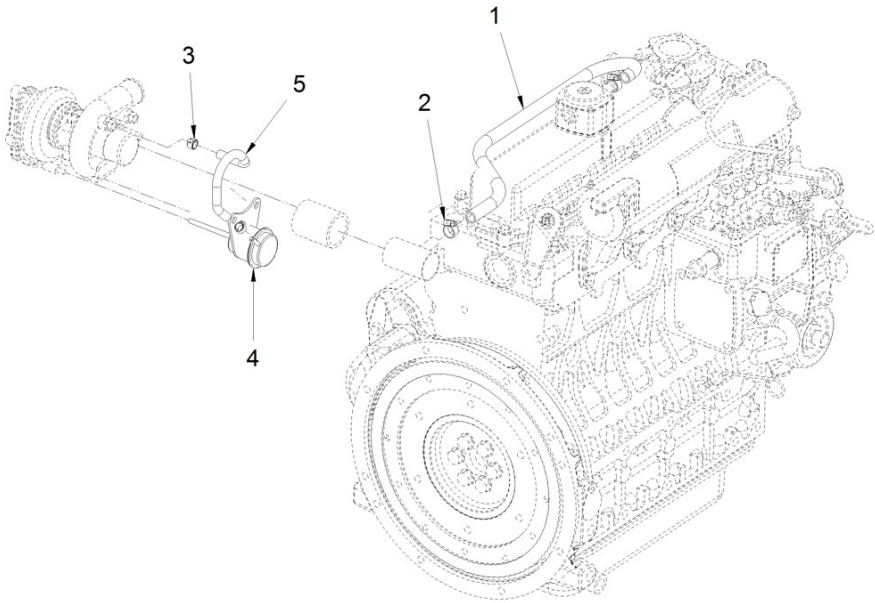
D_SKA1_2_1		Inlet			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17710012.2	1	Air Filter		
2	1A024030	1	House, Breather		
3	52102255	2	Bolt DIN 933 M8-12 8.8		
4	53033008	2	Washer GROWER DIN 127-8		
5	52102156	2	Bolt DIN 933 M6-16 8.8		
6	53033006	2	Washer GROWER DIN 127-6		
7	1A010024	1	Bracket		
8	1A024031	1	Pipe Turbocharger		
9	54082032	7	Clamp DIN 3017 32-50/12 W4		
10	1A010030	1	Hose		
11	52111157	1	ROD DIN 913 M6-20 8.8		
12	58088286	1	Nylon Cable Zip Tie		
13	1A010017	1	TURBOCHARGER, Adaptor		
14	1A010018	1	Bracket		
15	51030006	1	Washer DIN 125-6		
16	1A010031	1	Hose		
17	1A013002	1	Termic, Bucklers		
18	52111258	2	ROD DIN 913 M8-25 8.8		
19	51030008	2	Washer DIN 125-8		
20	54120008	2	Nut DIN 934 M8		
21	1A021080	1	Manifold Intake		
22	1A021081	1	Packing		
23	1A021079	1	Bolt		
24	1A021083	7	Bolt		
25	1A021084	1	Gasket, in manifold		



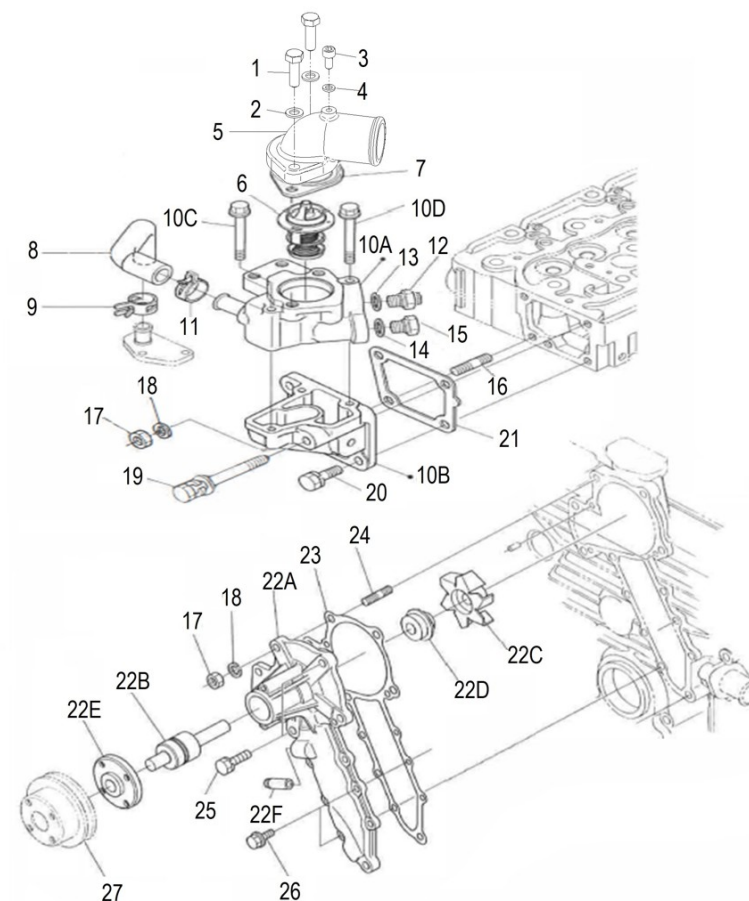
D_SKA1_2_2		Turbocharger				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A028012	1	Comp. Pipe Oil			
2	1A012007	1	Banjo Bolt M8x1.25			
3	56000057	2	Washer 8-13-1,5			
4	1A012008	1	Banjo Bolt M10x1.25			
5	56000011	2	Washer			
6	1A012005	1	Pipe			
7	1A022004	1	Gasket			
8	1A021079	2	Bolt			
9	1A028010	1	Elbow			
10	1A028011	1	Tube, Oil			
11	54081012	2	Clamp DIN 3017 12-22/9 W4			
12	1A028002.1	1	Turbocharger, Assy			



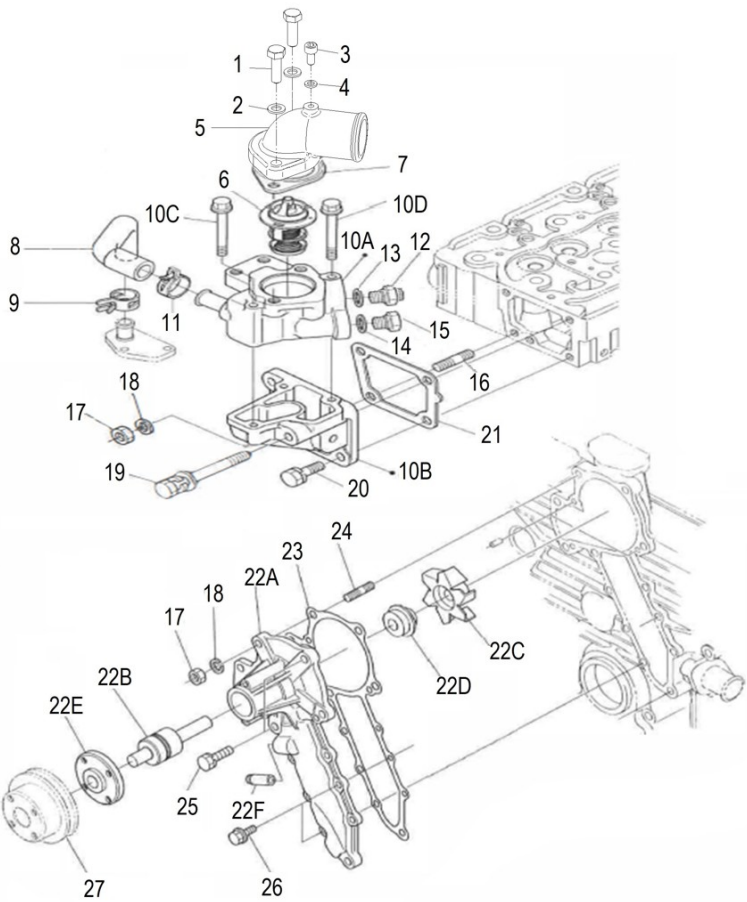
D_SKA1_2_5		Breather Line				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A010011	1	Hose, Breather			
2	54081012	2	Clamp DIN 3017 12-22/9 W4			
3	51086011	2	ONE EAR Clamp With Interior Ring 9-10,5			
4	(*)	1	Not available			
5	M86500510	1	Hose ATD D. 5-10			



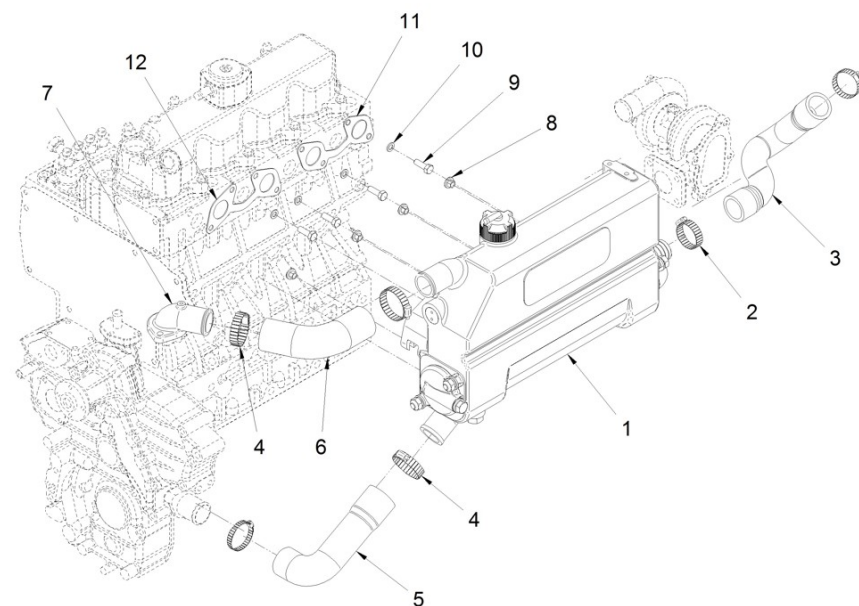
D_SKA1_3_1		Water Pump			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	52102258	2	Bolt DIN 933 M8-25 8.8		
2	53038008	2	Washer DIN 6798-A 8		
3	13811035	1	Bolt,bleed		
4	56000053	1	Washer 6-10-1,5		
5	1A011020	1	FITTING,water outlet		
6	1A021027	1	Thermostat		
7	1A021031	1	Gasket Water OutL		
8	1A021026	1	Pipe Water Return		
9	1A024089	1	Clamp		
10	1A021100	1	Thermostat Assy		
10AB (*)		2	Not available		
10C	1A021125	2	Bolt		
10D	1A021126	1	Bolt		
11	1A021103	1	Clamp		
12	60900980	1	Temperature Sensor		
13	56000073	1	Copper Washer 16-23-1,5		
14	1A021104	1	Gasket		
15	1A021105	1	Bolt, Bleed		
16	1A021106	1	Stud		
17	1A021107	1	Nut		
18	1A021013	1	Washer spring		
19	1A021109	1	Bolt		
20	1A021110	2	Bolt		
21	1A021111	1	Gasket,Thermostat		
22	1A021112	1	Fresh Water Pump		
22A	1A021113	1	Case, Coolant Pump		
22B	1A021114	1	Bearing		
22C	1A021115	1	Body, Water Pump		
22D	1A021116	1	Oil Seal		
22E	1A021117	1	Flange (Water Pump Shaft)		
22F	1A021118	1	Pipe, Water Return		



D_SKA1_3_1		Water Pump				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
23	1A021121	1	Gasket Water Pump			
24	1A021122	1	Stud			
25	1A021123	2	Bolt			
26	1A021124	6	Bolt			
27	1A020004	1	Pulley			

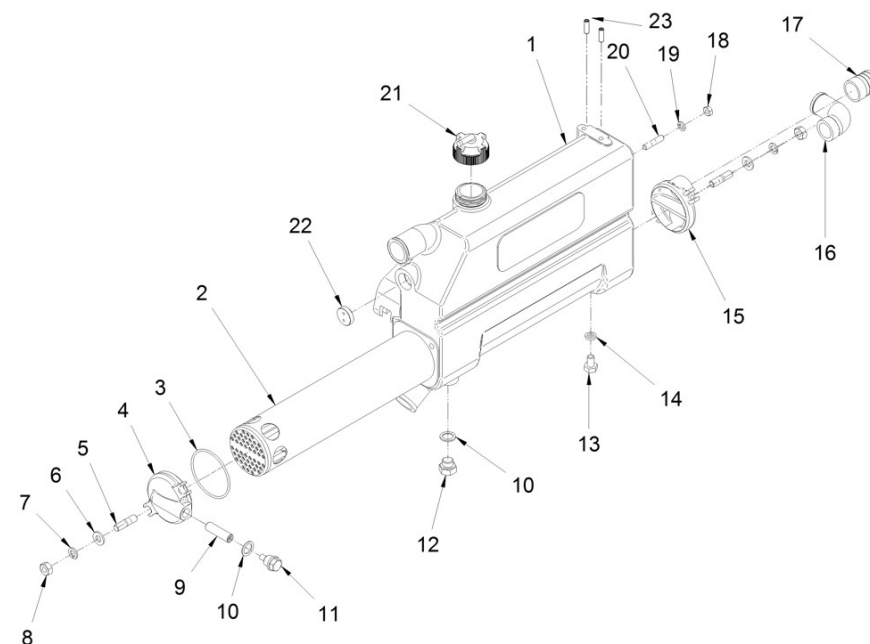


D_SKA1_3_2		Cooler Pipes				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A011000R	1	Water Cooler Assy SK-60			
2	54082025	2	Clamp DIN 3017 25-40/12 W4			
3	1A011034	1	Rubber Elbow, Wet Exhaust			
4	54082032	4	Clamp DIN 3017 32-50/12 W4			
5	1A011023	1	Elbow			
6	1A011022	1	Elbow			
7	1A011020	1	FITTING,water outlet			
8	51125008	4	Nut Exhaust			
9	52102258	4	Bolt DIN 933 M8-25 8.8			
10	53038008	4	Washer DIN 6798-A 8			
11	1A021035	1	Gasket Exhaust Manifold			
12	1A021036	1	Gasket Exhaust Manifold			

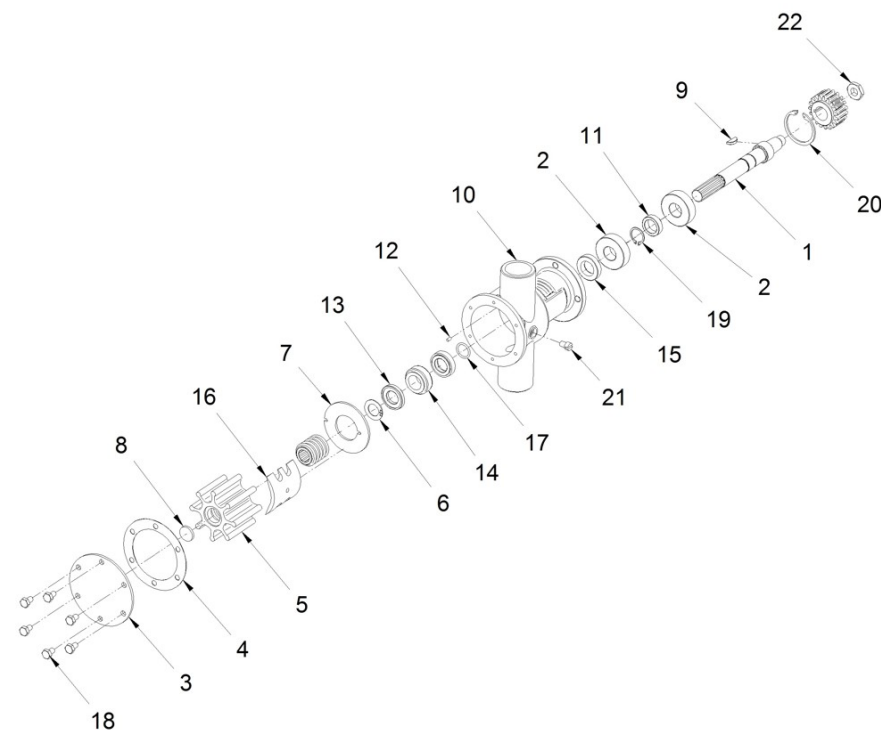


D_1A011000R Water Cooler Assy SK-60 (R)

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A011001	1	Body, Water Cooler			
2	17111004	1	Tubular Bundle			
3	18011008	2	O-Ring D. 72X3			
4	18011002	1	Water Cooler Cover			
5	51030010	4	Washer DIN 125-10			
6	53033010	4	Washer GROWER DIN 127-10			
7	52120010	4	Nut DIN 934 M10 8.8			
8	16511007	4	Stud			
9	18011031	1	Engine Anode 45 mm M.8			
10	56000073	2	Copper Washer 16-23-1,5			
11	18011009	1	Anode Plug			
12	12111076	1	Plug			
13	54102306	1	Bolt DIN 933 M10-16 INOX.			
14	56000205	1	Washer 10-16-3			
15	17411003	1	Water Cooler Cover			
16	14711021	1	Elbow N°1			
17	60180007	1	Outlet Coupling			
18	54120008	4	Nut DIN 934 M8			
19	53033008	4	Washer GROWER DIN 127-8			
20	13311006	4	Stud,cover			
21	13811010	1	Cap			
22	12113092	1	Plug			
23	52111258	2	ROD DIN 913 M8-25 8.8			
NS	17713003	1	Gasket			
NS	1A011040	1	SK-60 Cooler Adhesive			

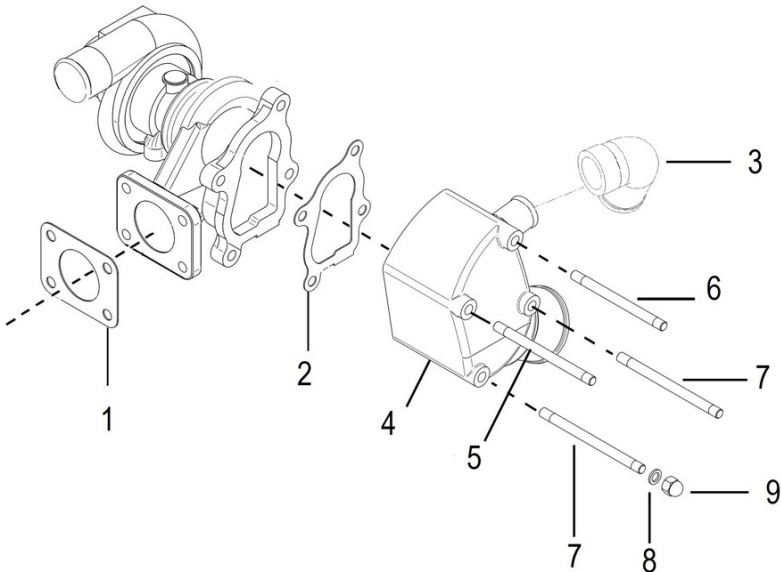


3A011000		Key Pump 1"				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	3A011010	1	Shaft			
2	33311014	2	Ball Bearing 6203			
3	34711002	1	Cover Pump			
4	34711003	1	Gasket Cover			
5	34711008	1	1" Impeller			
6	54040016	1	CIRClip E-16			
7	34711026	1	Plate,Friction			
8	34711041	1	Impeller Plug			
9	35111035	1	KEY DIN 6888 3-6,5-16 INOX			
10	36511001	1	Body,water pump			
11	36511015	1	Spacer 17X24X7			
12	36511017	1	Pin,Dowel			
13	36511018	1	Washer,seal			
14	36511019	1	Seal			
15	36511020	1	Seal 16-30-7			
16	3A011005	1	Sleeve 4,5 mm.			
17	33311013	1	O-Ring D. 15X2			
18	54102154	6	Bolt DIN 933 M6-10 INOX			
19	53040017	1	Circlip DIN 471 E-17			
20	53041040	1	Circlip DIN 472 I-40			
21	54108153	1	Bolt DIN 84 M6-8			
22	54121012	1	Nut DIN 439 M12			

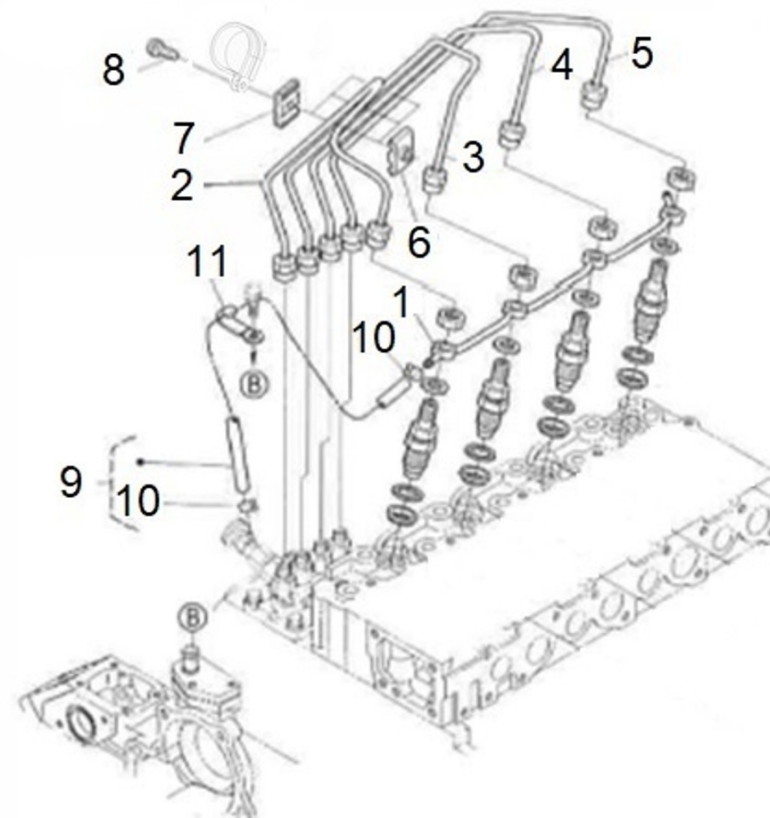


D_SKA1_3_5 Wet Exhaust

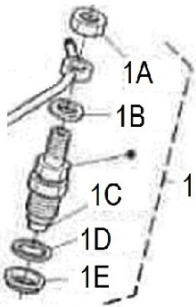
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17713003	1	Gasket			
2	17713016	1	Gasket			
3	14711021	1	Elbow N°1			
4	1A013015	1	Elbow, Wet Exhaust			
5	17713005	1	Stud			
6	17713006	1	Stud			
7	17713004	2	Stud			
8	56000201	4	Copper Washer 8-13-3			
9	55122008	4	Nut DIN 1587 M8			



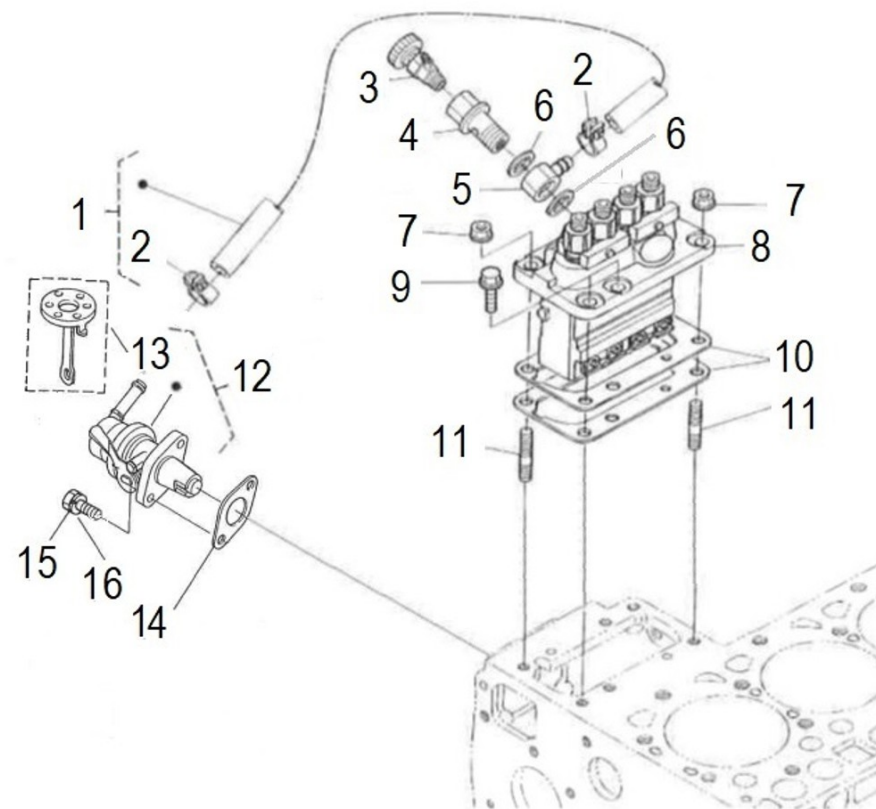
D_SKA1_4_1		Fuel Pipe				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A024002	1	Assy,Fuel Return			
2	1A024015	1	Pipe Injection			
3	1A024016	1	Pipe Injection			
4	1A024017	1	Pipe Injection			
5	1A024018	1	Pipe Injection			
6	1A024019	3	Clamp			
7	1A024020	3	Clamp			
8	1A024021	3	Bolt			
9	1A024005	1	Pipe Assy (Over Flow)			
10	1A024006	2	Clamp			
11	1A024007	1	Clamp			



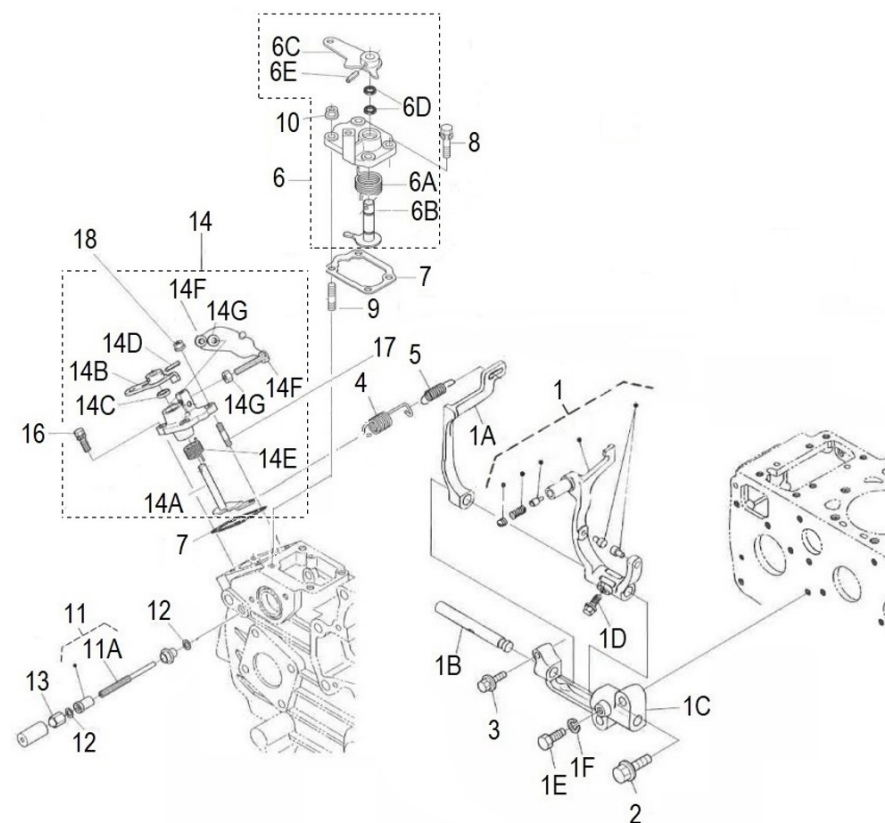
D_SKA1_4_2		Injection Nozzle				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A026004	4	Nozzle Assy			
1A	1A026002	4	Nut			
1B	1A026003	4	Washer			
1C	1A026001	4	Pipe			
1D	1A026005	4	Gasket			
1E	1A026006	4	Oil Seal			



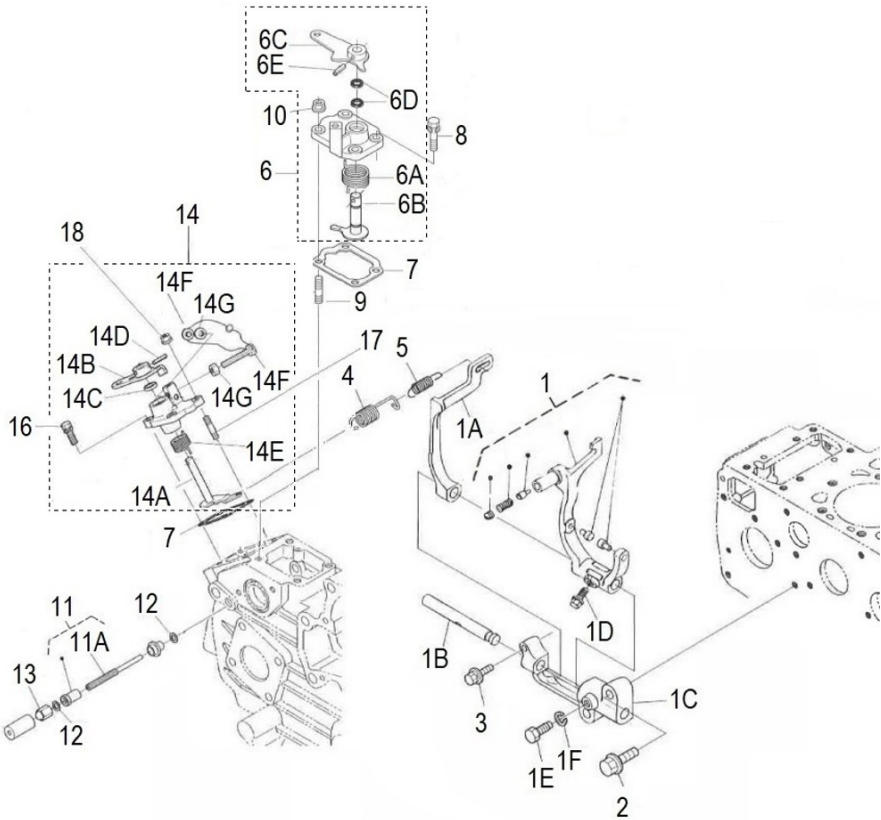
D_SKA1_4_3		Fuel Injection Pump				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A025002	1	Tube Assy, Fuel			
2	1A025003	2	Clamp			
3	1A025004	1	Bolt, Bleed			
4	1A025005	1	Screw, Eye			
5	1A025006	1	Nipple eye			
6	1A025007	2	Gasket			
7	1A025008	2	Nut			
8	1A025001	1	Pump Injecctión Assy			
9	1A025009	4	Bolt			
10A	1A025011	1	Shim Injection 0,175mm			
10B	1A025012	0	Shim Injection 0,200mm	#		
10C	1A025013	0	Shim Injection 0,250mm	#		
10D	1A025014	0	Shim Injection 0,300mm	#		
11	1A021106	2	Stud			
12	1A025015	1	Fuel Pump			
13	1A025016	1	Comp Diaphragm			
14	1A025017	1	Fuel Pump Gasket			
15	54102156	2	Bolt DIN 933 M6-16 INOX			
16	51030006	2	Washer DIN 125-6			



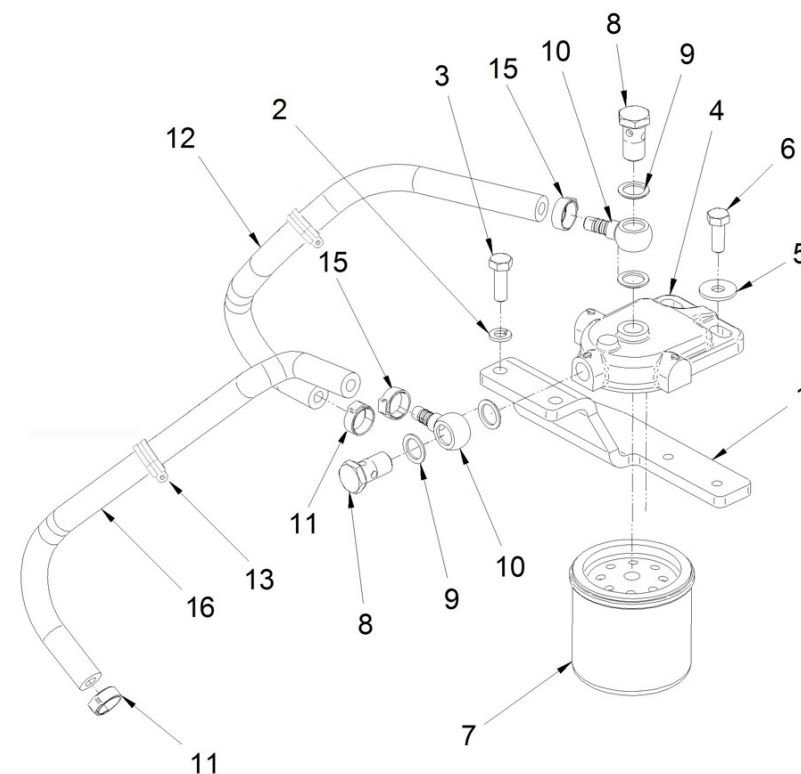
D_SKA1_4_4		Governor Parts				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A023001	1	Regulator Assy			
1A	1A023002	1	Lever			
1B	1A023003	1	Shaft, Governor			
1C	1A023004	1	Holder Fork Lever			
1D	1A021106	1	Stud			
1E	1A023006	1	Bolt			
1F	1A020071	1	Washer			
2	1A020083	2	Bolt			
3	1A023009	1	Bolt			
4	1A023010	1	Spring			
5	1A023011	1	Spring			
6	1A023015	1	LEVER, ASSY (ENGINE STOP)			
6A	1A023020	1	SPRING, RETURN			
6B	1A023016	1	LEVER, COMP. (ENGINE STOP)			
6C	1A023017	1	LEVER ENGINE STOP			
6D	1A023018	2	PACKING (X-RING)			
6E	1A023019	1	PIN, SPRING			
7	1A023021	2	GASKET PLATE			
8	1A023022	2	BOLT, SEMS			
9	1A023023	2	STUD			
10	1A023024	2	NUT FLANGE			
11	1A023025	1	BOLT, ASSY (ADJUSTING)			
11A	1A023026	1	BOLT (ADJUSTING)			
12	1A023027	2	PACKING			
13	1A023028	1	NUT, CAP			
14	1A023029	1	ASSY PLATE CONTROL			
14A	1A023030	1	COMP. LEVER, GOVERNOR			
14B	1A023008	1	Lever Assy Speed			
14C	1A023031	1	SEAL, OIL			
14D	1A023032	1	PIN, SPRING			
14E	1A023033	1	SPRING, RETURN			



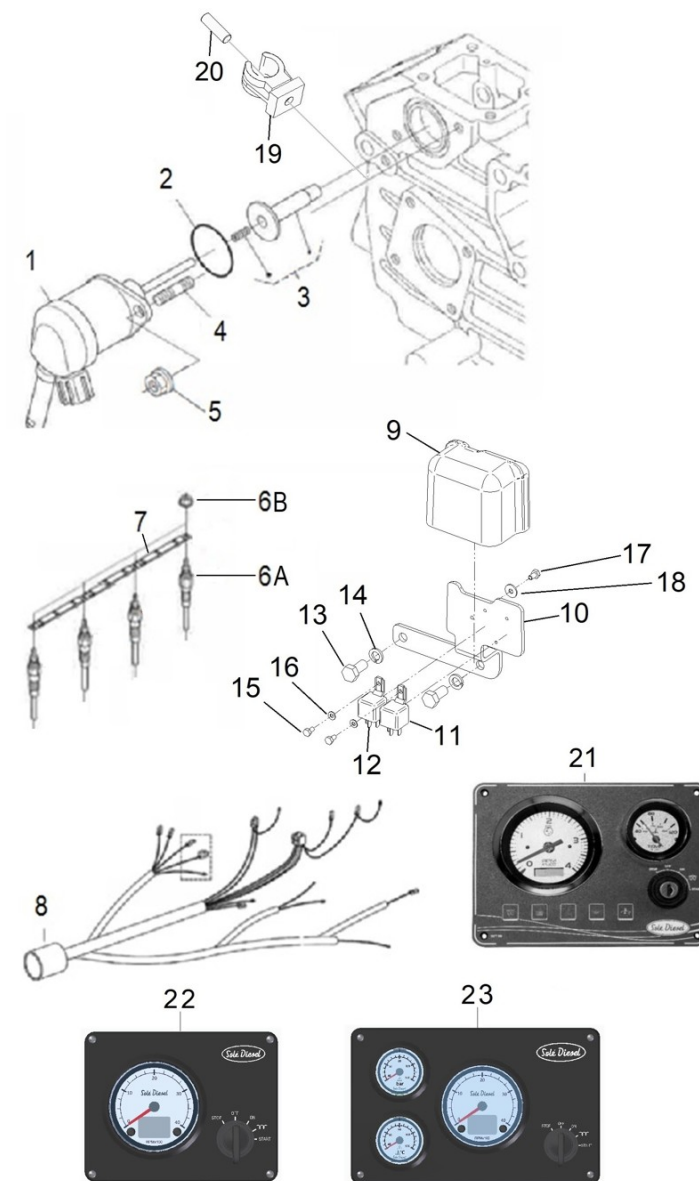
D_SKA1_4_4		Governor Parts				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
14F	1A023034	2	BOL T, IDLING ADJUST			
14G	1A023035	2	HEX, NUT			
15	1A023039	2	NUT, FLANGE			
16	1A023037	2	BOLT, SEMS			
17	1A023038	2	STUD			



D_SKA1_4_5		Fuel Supply Parts			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A014001	1	Bracket, Fuel Filter		
2	53033008	2	Washer GROWER DIN 127-8		
3	52102258	2	Bolt DIN 933 M8-25 8.8		
4	13114120	1	Cover,filter f/.SMI		
5	51031008	2	Washer DIN 9021 8		
6	52102257	2	Bolt DIN 933 M8-20 8.8		
7	13114022	1	Fuel Filter Element from MINI 10 to 55		
8	12814051	2	Screw,eye		
9	57000369	4	Washer 14,2-20-1,5		
10	17214012	2	COLLAR,Union		
11	51086015	2	One Ear Clamp With Interior Ring 13-15,3		
12	1A014002	1	Pipe		
13	59071161	2	Clamp RSGU 1 16/12 W1		
14	52111157	1	ROD DIN 913 M6-20 8.8		
15	51086016	2	ONE EAR Clamp With INTERIOR Ring 14-16,3		
16	1A014003	1	Pipe		

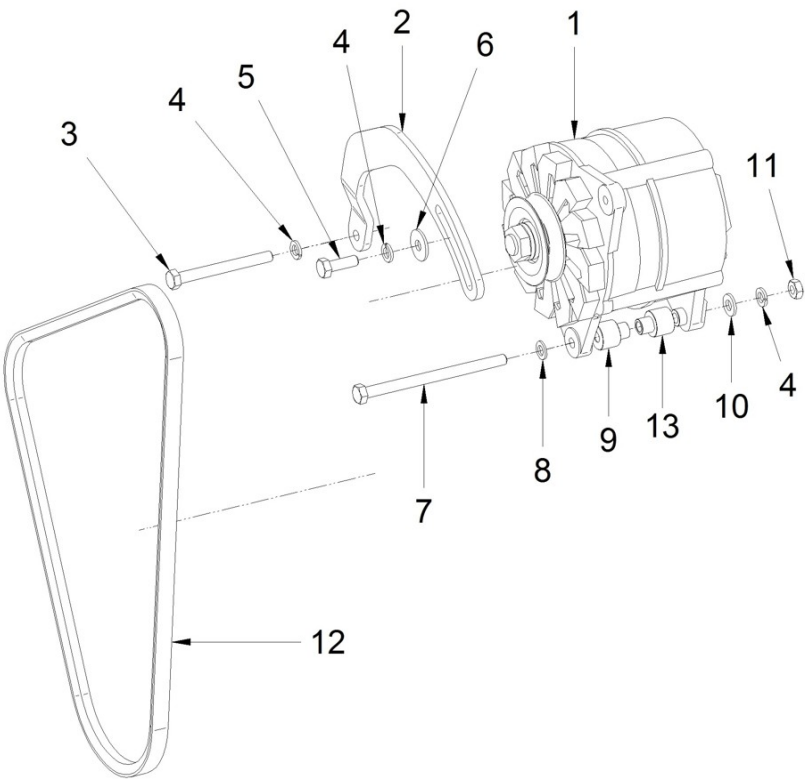


D_SKA1_5_5		Electrical Wiring				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A024025	1	Stop Solenoid			
2	1A024026	1	O-Ring			
3	1A024027	1	Comp. Guide Solenoid			
4	1A020074	1	Stud			
5	1A024029	1	Nut			
6A	1A024120	2	Plug-Glow			
6B	1A027017	4	Nut			
7	1A027018	1	Cord (Glow Plug)			
8	60971210	1	SK-60 SVT Electrical Wiring			
9	13817003	1	Cover			
10	1A017001	1	Bracket			
11	60900238	1	Relay Nagares 12V 40A Diode			
12	18517005	1	Relay Nagares 12V 40A			
13	52202358	2	Bolt DIN 933 M12-1,25-25 8.8			
14	53033012	2	Washer Grower DIN 127-12			
15	52102104	2	Bolt DIN 933 M5-10 8.8			
16	51030005	2	Washer DIN 125-5			
17	52102154	2	Bolt DIN 933 M6-10 8.8			
18	51031006	2	Washer DIN 9021 6			
19	58088287	1	Nylon Cable Zip Tie			
20	52111157	1	ROD DIN 913 M6-20 8.8			
21	609A0100	1	SVT 20 SK-60 Panel			04/03/2024
22A	639A0211NS	1	Panel SSG 20 SK-60 ETR 12V Black		04/03/2024	
22B	639A0211BS	1	Panel SSG 20 SK-60 ETR 12V White		04/03/2024	
22E	639A0211BSL	1	Panel SSG 20 SK-60 ETR 12V White Earth Isolated		04/03/2024	
22G	639A0211NSL	1	Panel SSG 20 SK-60 ETR 12V Black Earth Isolated		04/03/2024	
23A	639A0311NS	1	Panel SSG 30 SK-60 ETR 12V Black		04/03/2024	
23B	639A0311BS	1	Panel SSG 30 SK-60 ETR 12V White		04/03/2024	
23E	639A0311BSL	1	Panel SSG 30 SK-60 ETR 12V White Earth Isolated		04/03/2024	
23G	639A0311NSL	1	Panel SSG 30 SK-60 ETR 12V Black Earth Isolated		04/03/2024	

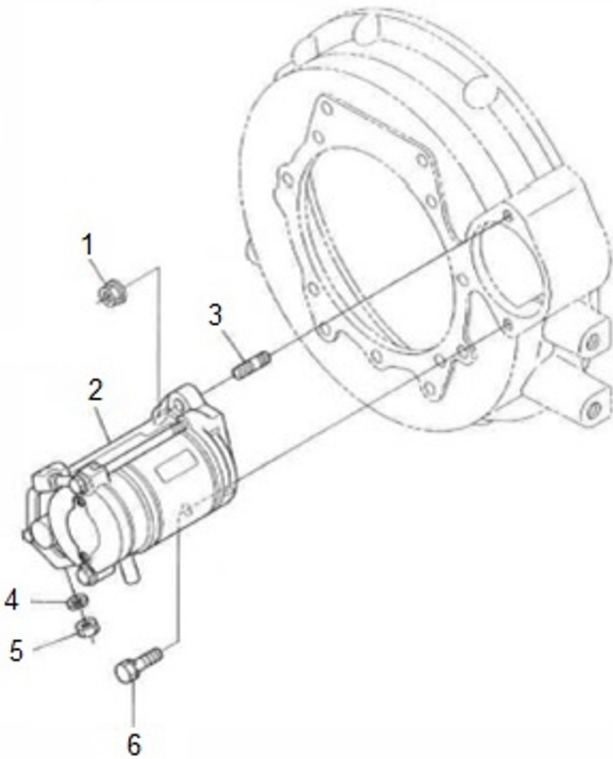


D_SKA1_5_1 Kit Alternador 14V/120A

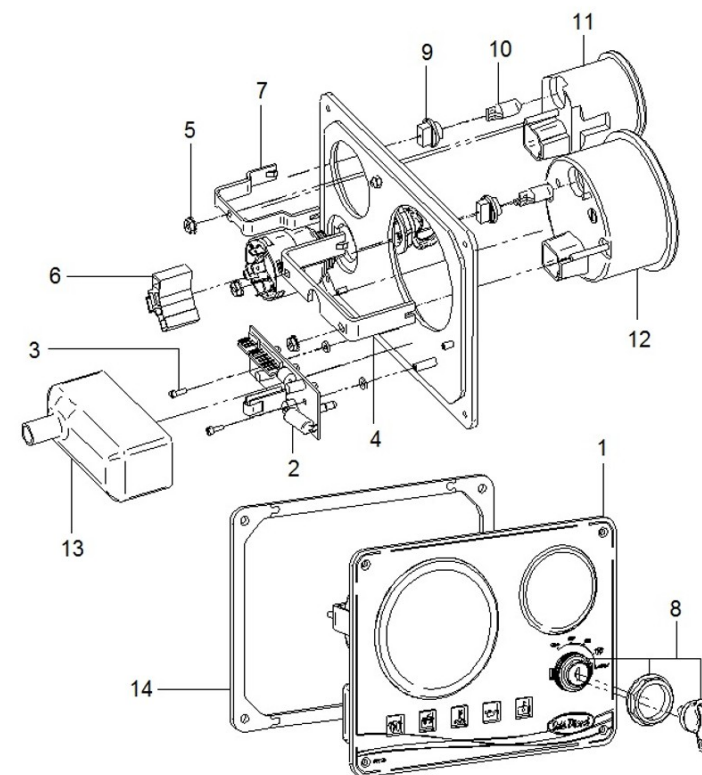
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A027000R	1	Alt. 14V/120A (R)			
2	1A017012	1	Plate			
3	52101269	1	Bolt DIN 931 M8-80 8.8			
4	53033008	3	Washer GROWER DIN 127-8			
5	52102258	1	Bolt DIN 933 M8-25 8.8			
6	51031008	1	Washer DIN 9021 8			
7	52101275	1	Bolt DIN 931 M8-120 8.8			
8	53038008	1	Washer DIN 6798-A 8			
9	1A017008	1	Bushing			
10	51030008	1	Washer DIN 125-8			
11	52120008	1	Nut DIN 934 M8 8.8			
12	17117020	1	Belt Type SPAX 1060			
13	1A017009	1	Bushing			



D_SKA1_5_3		Spare Starter				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	1A027020	1	Nut			
2	1A027029	1	Starter Assy 12V 2,0KW			
3	1A027021	1	Stud			
4	1A021013	1	Washer spring			
5	1A027023	1	Nut			
6	1A027024	1	Bolt			

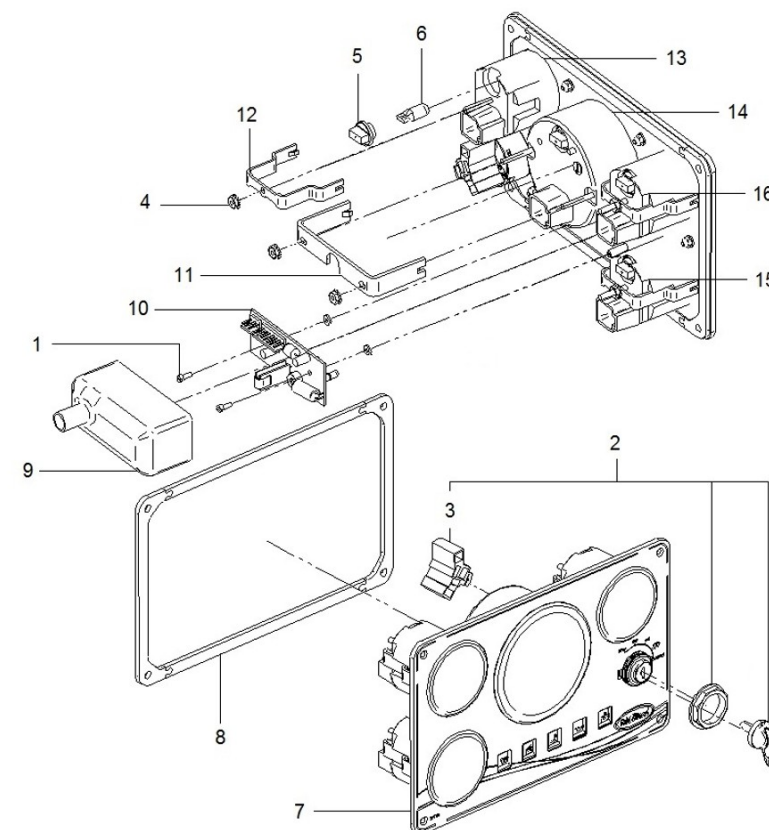


D_609A0100		SVT 20 SK-60 Panel			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	60938005.1	1	Panel N.2		
2	60900301.2	1	Integrated Circuit Plate 12V Protection		
3	54108003	2	Bolt DIN 84 M3-8 INOX.		
4	60900910.1	1	Revolution Counter Fixing Bracket		
5	60900910.2	1	Fixing Nut Gauge+Terminal		
6	60900037.2	1	Connector		
7	60900915.2	1	Gauge Fixing Bracket		
8	60900037	1	Key-Locking		
9	60900931	2	SOCKET,WEDGE BASE		
10	60900929	2	Bulb 12V		
11	60900937	1	Thermometer VT 12V		
12	609A0900	1	Revol. Counter VT 12V SK-60		
13	60900096	1	Cover Plate for Motor Propeller		
14	60938006.1	1	Gasket Panel		
NS	60900091	1	MICRO Relay 12V 12-20		
NS	60910012	1	System Back Panel SVT/MVT 20 12V		

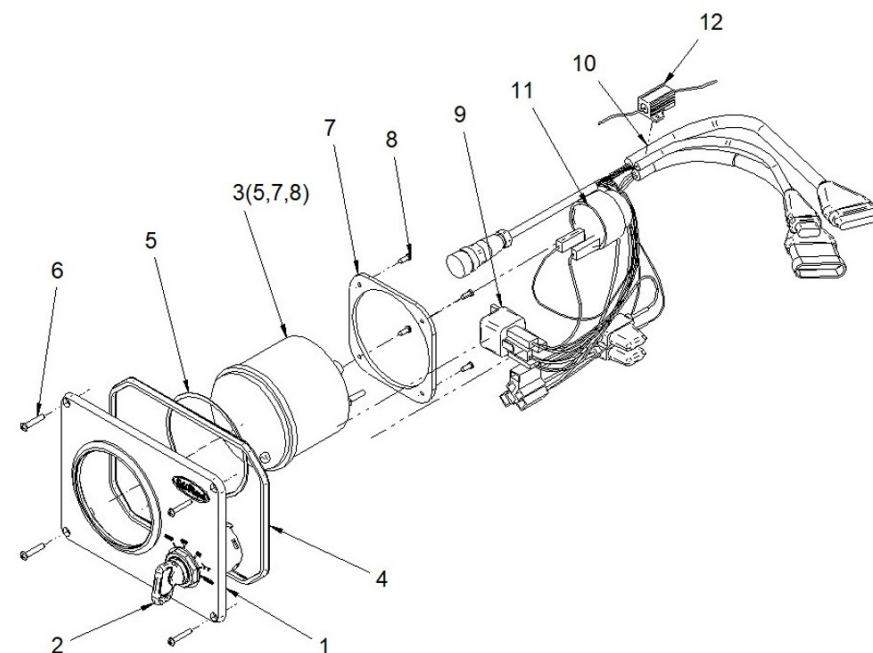


D_609A0102 SVT 30 SK-60 Panel

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	54108003	2	Bolt DIN 84 M3-8 INOX.			
2	60900037	1	Key-Locking			
3	60900037.2	1	Connector			
4	60900910.2	5	Fixing Nut Gauge+Terminal			
5	60900931	4	SOCKET,WEDGE BASE			
6	60900929	4	Bulb 12V			
7	60990005.1	1	Panel N.3			
8	60990006.1	1	Gasket Panel			
9	60900096	1	Cover Plate for Motor Propeller			
10	60900301.3	1	V3 C.I. 12V Prop. Engine Board.Varnished			
11	60900910.1	1	Revolution Counter Fixing Bracket			
12	60900915.2	3	Gauge Fixing Bracket			
13	60900941	1	Voltmeter VT 12V			
14	609A0900	1	Revol. Counter VT 12V SK-60			
15	60900937	1	Thermometer VT 12V			
16	60900939	1	Pressure Gauge VT 12V			
NS	60900091	1	MICRO Relay 12V 12-20			

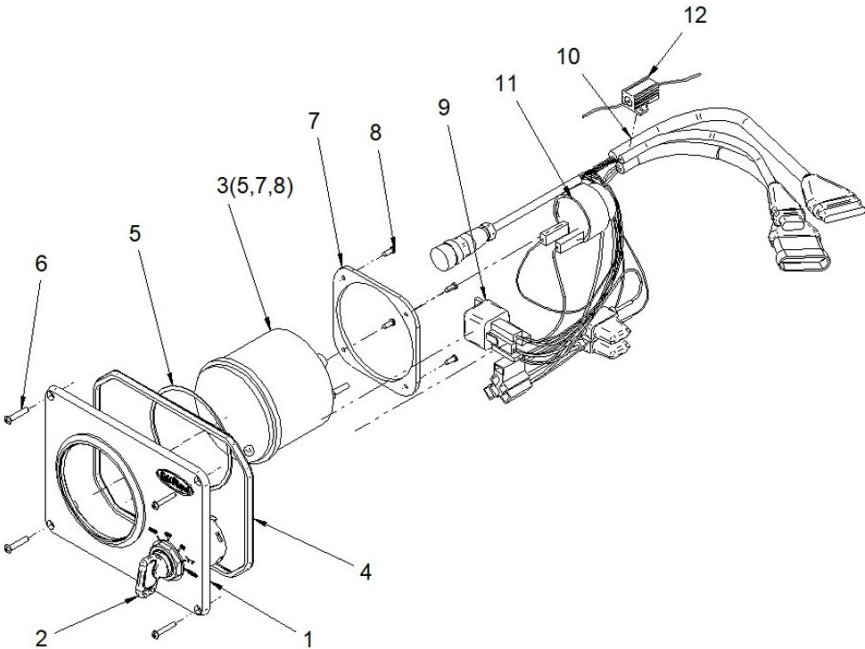


D_1631 Panel SSG 20 Spare Parts						
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	63900013	1	SSG 20 Panel Solé Diesel			
2	60900037	1	Key-Locking			
3A	63938001BSR	1	Revolution Counter SG Solé MINI-17/29 White			
3B	63938001BNR	1	Revolution Counter SG Solé MINI-17/29 Black			
3C	63972001BSR	1	Revolution Counter SG Solé MINI-33/44/55 White			
3D	63972001BNR	1	Revolution Counter SG Solé MINI-33/44/55 Black			
3E	639A0001BSR	1	Revolution Counter SG Solé SK-60 White			
3F	639A0001BNR	1	Revolution Counter SG Solé SK-60 Black			
3G	63971001BSR	1	Revolution Counter SG Solé MINI-62 White			
3H	63971001BNR	1	Revolution Counter SG Solé MINI-62 Black			
3I	63974001BSR	1	Revolution Counter SG Solé MINI-74/SM-105/103 White			
3J	63974001BNR	1	Revolution Counter SG Solé MINI-74/SM-105/103 Black			
3K	63978001BSR	1	Revolution Counter SG Solé SM-82/94 White			
3L	63978001BNR	1	Revolution Counter SG Solé SM-82/94 Black			
3M	63994001BSR	1	Revolution Counter SG Solé SDZ-165/205/280 White			
3N	63994001BNR	1	Revolution Counter SG Solé SDZ-165/205/280 Black			
4	63900017	1	Gasket Panel SSG20			
5	63900009	1	Silicone Tachometer Gasket SG 94x84x1 Frontal			
6	51918057	4	Bolt DIN 7981 3,9-22			
7	63900007	1	SG D.85 Tachometer Bracket			
8	5191B003	4	Bolt CL81Z 3.1X8			
9A	63900028	1	Relay 12V 20/30A NO+NC			
Figure A for 12V System						
9B	63900029	1	Relay 24V 10/20A NO+NC			
Figure b for 24V System						
10	63900032	1	Electrical Installation Panel SSG Master			
11	60900060	1	Alarm, Buzzer			
12A	61100000	1	Resistance 12V 18 Ohm with Connectors Panel SG			
Figure A for 12V System						
12B	61100001	1	Resistance 24V 75 Ohm with Connectors Panel SG			
Figure b for 24V System						

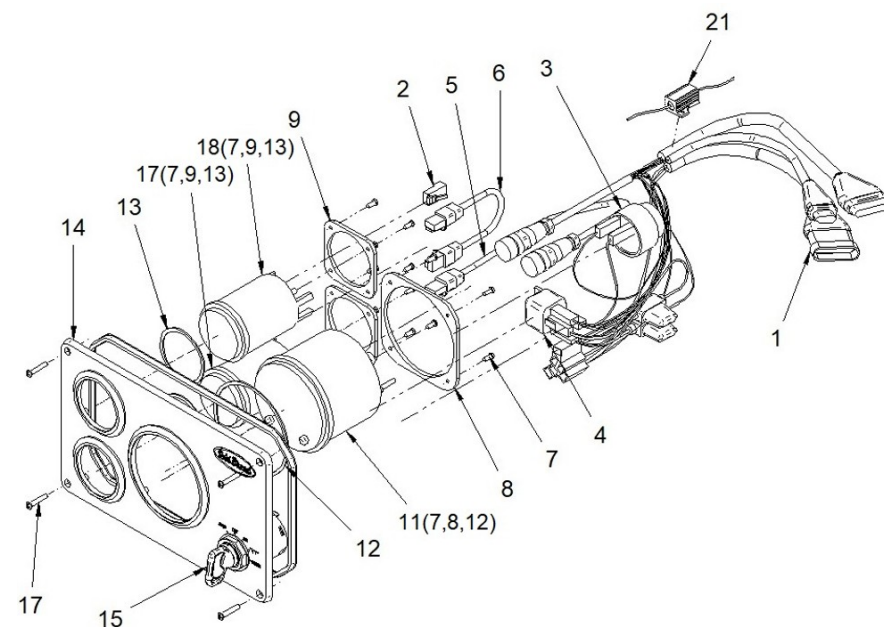


D_1631 Panel SSG 20 Spare Parts

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
13	63900040	1	Buzzer Bracket			
14	53033005	2	Washer GROWER DIN 127-5			
15	52120004	2	Nut DIN 934 M4 8.8			
NS	LLAVERO.1A	1	Floating Keyring Solé Diesel			

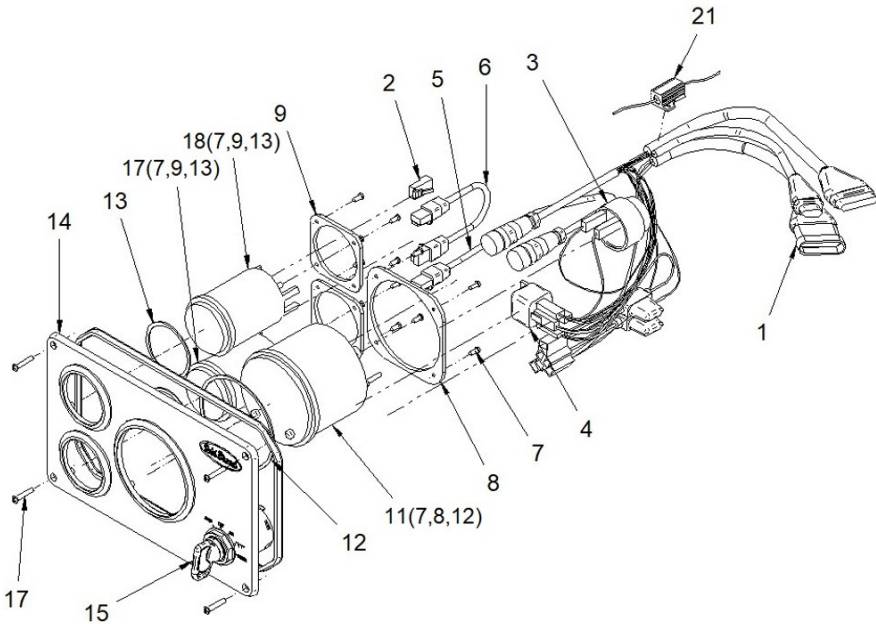


D_1633		Panel SSG 30 Spare Parts				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	63900032	1	Electrical Installation Panel SSG Master			
2	63900026	1	CAN RJ45 Bus End Resistor			
2	63900037	1	CAN RJ45 Bus End Resistor CAN M12-5pin NMEA2000			
3	60900060	1	Alarm, Buzzer			
4A	63900028	1	Relay 12V 20/30A NO+NC			
Figure A for 12V System						
4B	63900029	1	Relay 24V 10/20A NO+NC			
Figure b for 24V System						
5	63900025	1	M12-5 Pin To Connector RJ45 0.2m SG			
6	63900027	1	Ethernet Cable RJ45 0.2m			
7	5191B003	12	Bolt CL81Z 3.1X8			
8	63900007	1	SG D.85 Tachometer Bracket			
8	63900008	2	SG D.52 Watch Support			
11A	63938001BSR	1	Revolution Counter SG Solé MINI-17/29 White			
11B	63938001BNR	1	Revolution Counter SG Solé MINI-17/29 Black			
11C	63972001BSR	1	Revolution Counter SG Solé MINI-33/44/55 White			
11D	63972001BNR	1	Revolution Counter SG Solé MINI-33/44/55 Black			
11E	639A0001BSR	1	Revolution Counter SG Solé SK-60 White			
11F	639A0001BNR	1	Revolution Counter SG Solé SK-60 Black			
11G	63971001BSR	1	Revolution Counter SG Solé MINI-62 White			
11H	63971001BNR	1	Revolution Counter SG Solé MINI-62 Black			
11I	63974001BSR	1	Revolution Counter SG Solé MINI-74/SM-105/103 White			
11J	63974001BNR	1	Revolution Counter SG Solé MINI-74/SM-105/103 Black			
11K	63978001BSR	1	Revolution Counter SG Solé SM-82/94 White			
11L	63978001BNR	1	Revolution Counter SG Solé SM-82/94 Black			
11M	63994001BSR	1	Revolution Counter SG Solé SDZ-165/205/280 White			
11N	63994001BNR	1	Revolution Counter SG Solé SDZ-165/205/280 Black			
12	63900009	1	Silicone Tachometer Gasket SG 94x84x1 Frontal			
13	63900010	2	Silicone Watch Gasket SG 54x48x1 Frontal			
14	63900014	1	SSG 30 Panel Solé Diesel			
15	60900037	1	Key-Locking			



D_1633 Panel SSG 30 Spare Parts

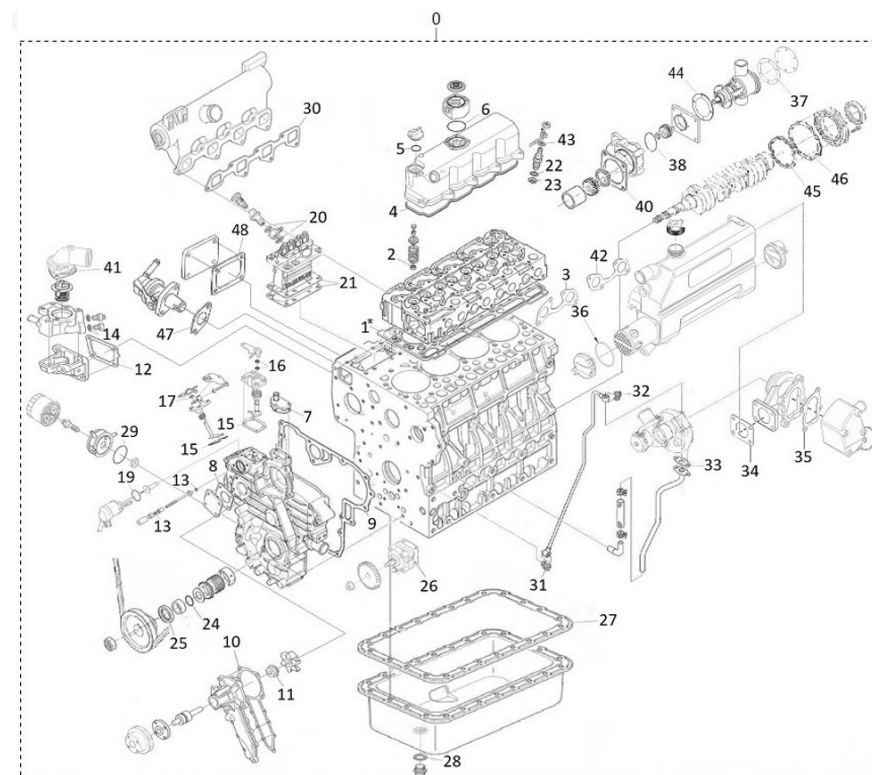
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
17	51918057	4	Bolt DIN 7981 3,9-22			
18A	63900003BSR	1	Pressure Gauge SG Solé Master White			
18B	63900042NSR	1	Pressure Gauge SG Solé Master Black			
19A	63900002BSR	1	Temperature Gauge SG Solé Master White			
19B	63900041NSR	1	Temperature Gauge SG Solé Master Black			
20	63900018	1	Gasket Panel SSG30			
21A	61100000	1	Resistance 12V 18 Ohm with Connectors Panel SG			
Figure A for 12V System						
21B	61100001	1	Resistance 24V 75 Ohm with Connectors Panel SG			
Figure b for 24V System						
22	63900040	1	Buzzer Bracket			
23	53033005	2	Washer GROWER DIN 127-5			
24	52120004	2	Nut DIN 934 M4 8.8			
NS	LLAVERO.1A	1	Floating Keyring Solé Diesel			



D_ALARPRO_1		Engine Extension				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1A	60938210.1	1	Engine Wiring Ext. 3 M. SUPERSEAL			
1B	60985210.1	1	Engine Wiring Ext. 4 M. SUPERSEAL			
1C	60938211	1	Engine Wiring Ext. 8 M. SUPERSEAL			
1D	60985210.12.1	1	Engine Wiring Ext. 12 M. SUPERSEAL			
1E	60985210.15.1	1	Engine Wiring Ext. 15 M. SUPERSEAL			
1F	60985210.24.1	1	Engine Wiring Ext. 24 M. SUPERSEAL			
1G	60974552	1	3-way Wiring Wxtension for Auxiliary Kits 4 m			
1H	60900165	1	3-way Wiring Extension for Auxiliary Kits 6 m			
1I	60900166	1	3-way Wiring Extension for Auxiliary Kits 12 m			
1J	60900167	1	3-way Wiring Extension for Auxiliary Kits 24 m			

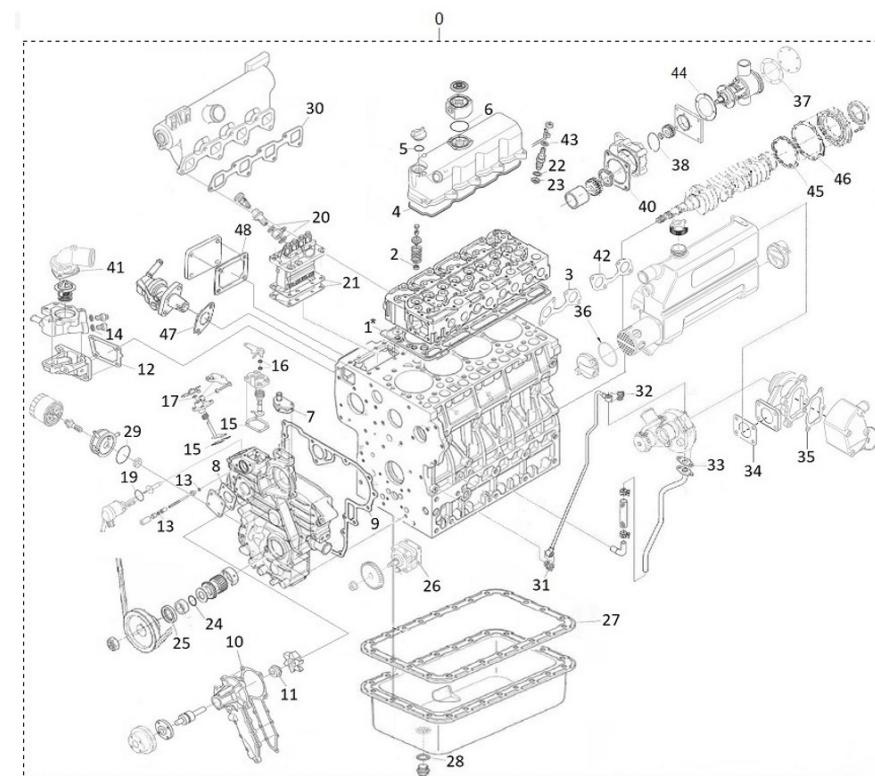


D_SKA1_6_1		Gasket Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
0	1A020101	1	Gasket Kit			
1A	1A021005	0	Gasket, Cylinder head 1,15mm	#		
1B	1A021004	0	Gasket,Cylinder Head STD	#		
1C	1A021006	0	Gasket, Cylinder head 1,25mm	#		
1D	1A021007	0	Gasket, Cylinder head 1,30mm	#		
1E	1A021008	0	Gasket, Cylinder head 1,35mm	#		
2	1A022054	8	Seal,oil			
3	1A021036	1	Gasket Exhaust Manifold			
4	1A021009	1	Gasket,Head Cover			
5	1A021017	1	O-Ring			
6	1A021046	1	O-Ring			
7	1A020077	1	Gasket			
8	1A020073	1	Gasket			
9	1A020040	1	Gasket, Gear Case			
10	1A021121	1	Gasket Water Pump			
11	1A021116	1	Oil Seal			
12	1A021111	1	Gasket,Thermostat			
13	1A023027	2	PACKING			
14	1A021104	1	Gasket			
15	1A023021	2	GASKET PLA TE			
16	1A023018	2	PACKING (X-RING)			
17	1A023031	1	SEAL, OIL			
19	1A024026	1	O-Ring			
20	1A025007	2	Gasket			
21A	1A025011	1	Shim Injection 0,175mm			
21B	1A025012	1	Shim Injection 0,200mm			
21C	1A025013	1	Shim Injection 0,250mm			
21D	1A025014	1	Shim Injection 0,300mm			
22	1A026005	4	Gasket			
23	1A026006	4	Oil Seal			
24	1A022031	1	O-Ring			



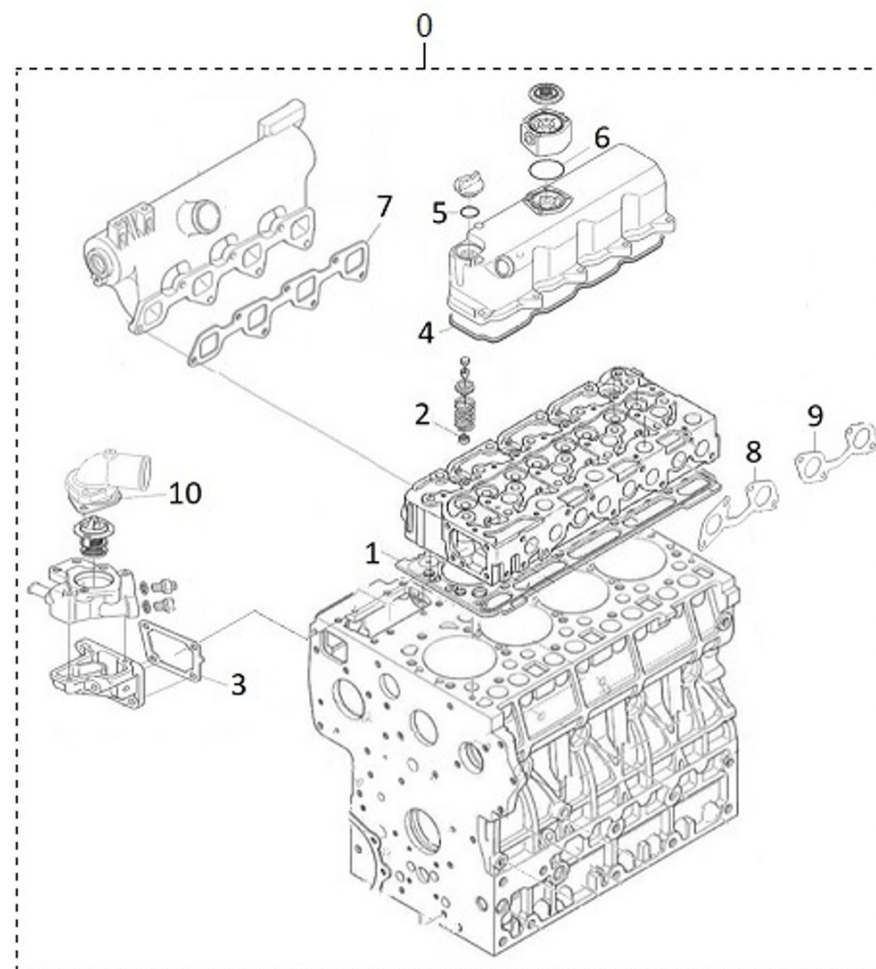
*Elegir medida de junta
*Choose joint size

D_SKA1_6_1		Gasket Kit			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
25	1A022029	1	Seal,oil		
26	1A022067	1	Gasket Oil Pump		
27	1A020033	1	Gasket,Oil Pan		
28	1A020009.1	1	Oil Pan Drain Plug Gasket		
29	1A024086	1	O-Ring		
30	1A021084	1	Gasket, in manifold		
31	56000057	2	Washer 8-13-1,5		
32	56000011	2	Washer		
33	1A022004	1	Gasket		
34	17713003	1	Gasket		
35	17713016	1	Gasket		
36	18011008	2	O-Ring D. 72X3		
37	34711003	1	Gasket Cover		
38	1A022102	1	O-Ring		
40	1A020028	1	Gasket		
41	1A021031	1	Gasket Water OutL		
42	1A021035	1	Gasket Exhaust Manifold		
43	1A026003	4	Washer		
44	13310013	1	Gasket,water pump		
45	1A022110	1	Gasket, Bearing Case		
46	1A022112	1	Gasket, Case Cover		
47	1A020048	1	Gasket Fuel Pump		
48	1A020049	1	Gasket Pump Cover		

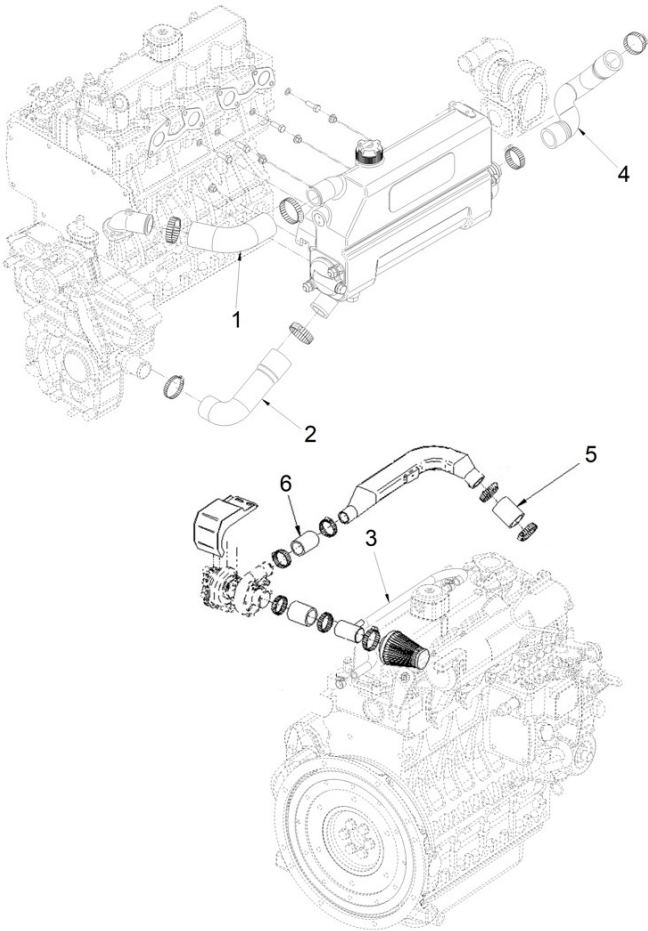


*Elegir medida de junta
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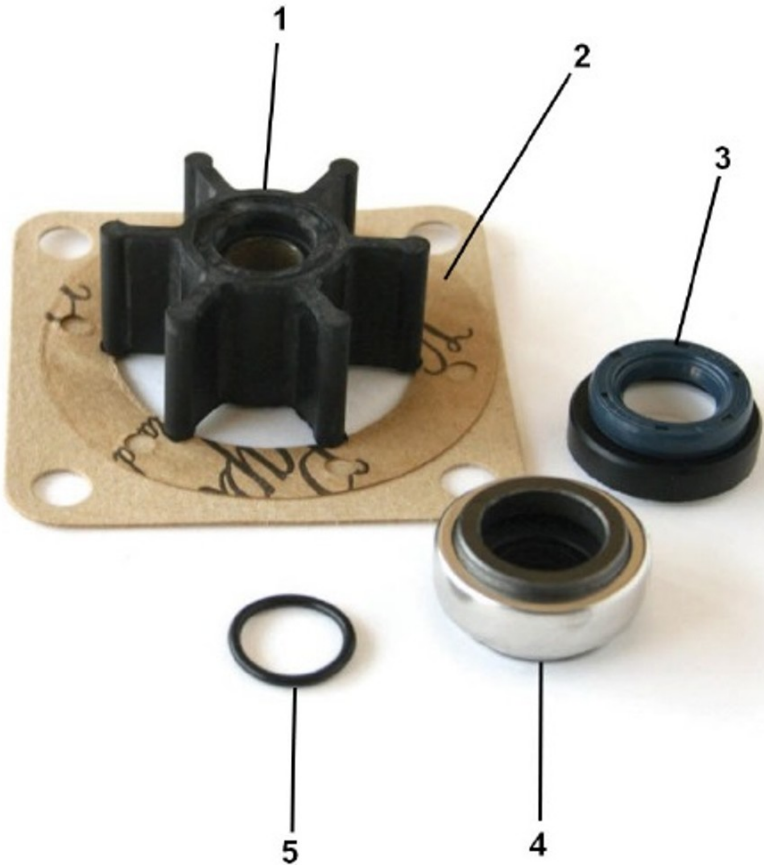
D_SKA1_6_2		Descarbonization Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
0	1A020101.1	1	Descarbonization Kit			
1A	1A021005	0	Gasket, Cylinder head 1,15mm	#		
1B	1A021004	0	Gasket,Cylinder Head STD	#		
1C	1A021006	0	Gasket, Cylinder head 1,25mm	#		
1D	1A021007	0	Gasket, Cylinder head 1,30mm	#		
1E	1A021008	0	Gasket, Cylinder head 1,35mm	#		
2	1A022054	8	Seal,oil			
3	1A021111	1	Gasket,Thermostat			
4	1A021009	1	Gasket,Head Cover			
5	1A021017	1	O-Ring			
6	1A021046	1	O-Ring			
7	1A021084	1	Gasket, in manifold			
8	1A021036	1	Gasket Exhaust Manifold			
9	1A021035	1	Gasket Exhaust Manifold			
10	1A021031	1	Gasket Water OutL			



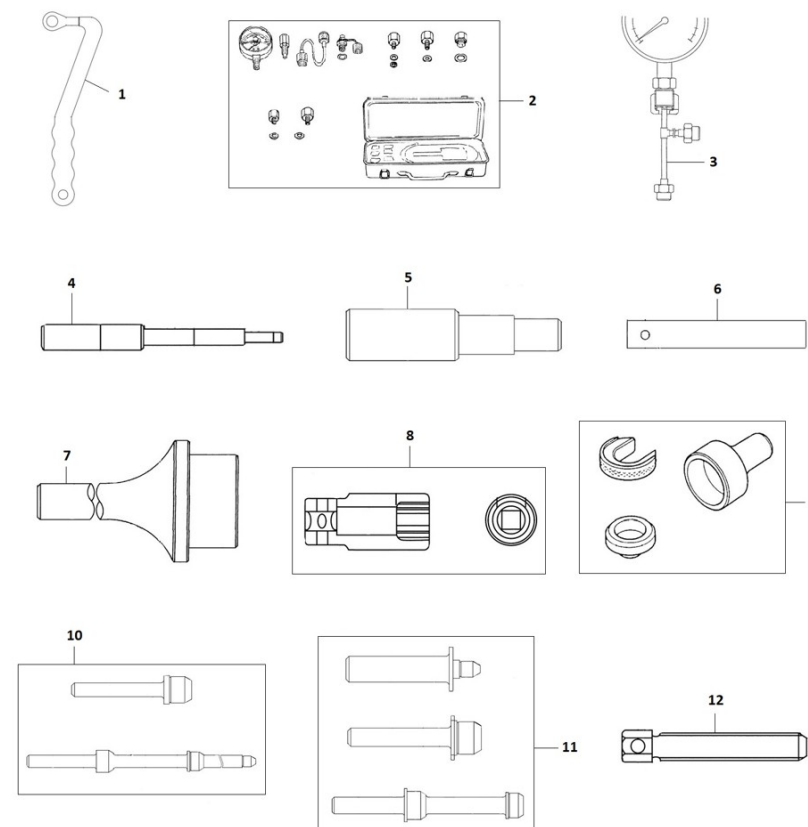
1A011100 Pipe Rubber Set,Water Line SK-60					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	1A011022	1	Elbow		
2	1A011023	1	Elbow		
3	1A010011	1	Hose, Breather		
4	1A011034	1	Rubber Elbow, Wet Exhaust		
5	1A010031	1	Hose		
6	1A010030	1	Hose		



3A011000K		Repair Kit Water Pump 1"				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	34711008	1	1" Impeller			
2	34711003	1	Gasket Cover			
3	36511020	1	Seal 16-30-7			
4	36511019	1	Seal			
5	33311013	1	O-Ring D. 15X2			
NS	13310013	1	Gasket,water pump			

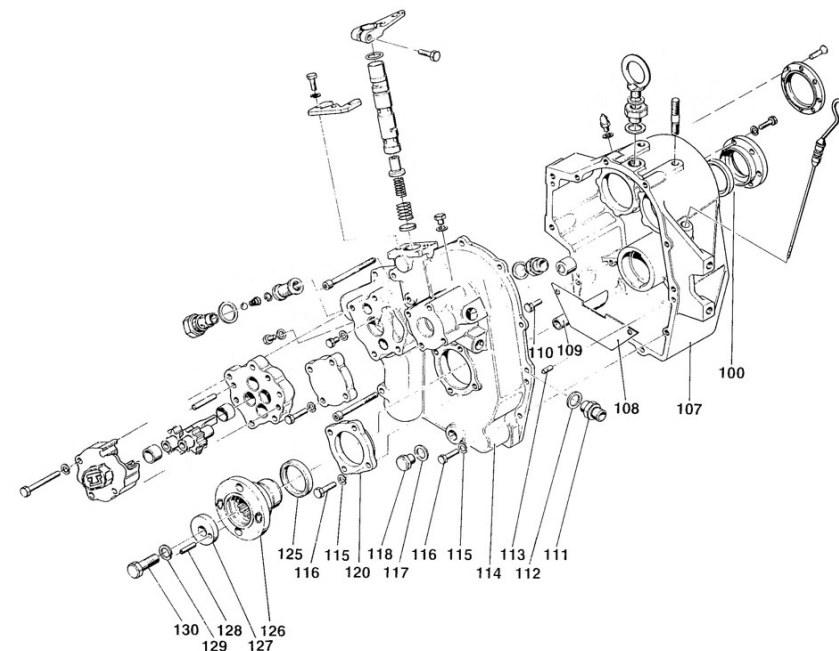


D_UTILFA1094_1		Special Tools				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13811063	1	Refrigerator Mounting Key			
2	1A010016	1	Oil Pressure Tester Kit			
3	1A010025	1	Injection Pump Tester Kit			
4	1A010026	1	Valve Guide Replacement Part 1			
5	1A010028	1	Replacement of Bushings			
6	1A010029	1	Steering Wheel Lock			
7	1A010032	1	Crankshaft Bearing Removal			
8	1A010033	1	Socket Spanner Crankshaft Pulley Nut 46 mm			
9	1A010034	1	Auxiliary Socket Kit to Fix Crankshaft Bushing			
10	1A010038	1	Balancer Metal Change Tool (for Disassembly)			
11	1A010039	1	Balancer Metal Change Tool (for mounting)			
12	1A010046	1	Idler Gear Puller 2			
NS	1A010027	1	Valve Guide Replacement Part 2			
NS	1A010035	1	Stop for Fixing the Crankshaft Bushing			
NS	1A010036	1	Crankshaft Bushing Guide			
NS	1A010037	1	Auxiliary Push Spanner			



D_5030_1.1 Sheet 1.1/4

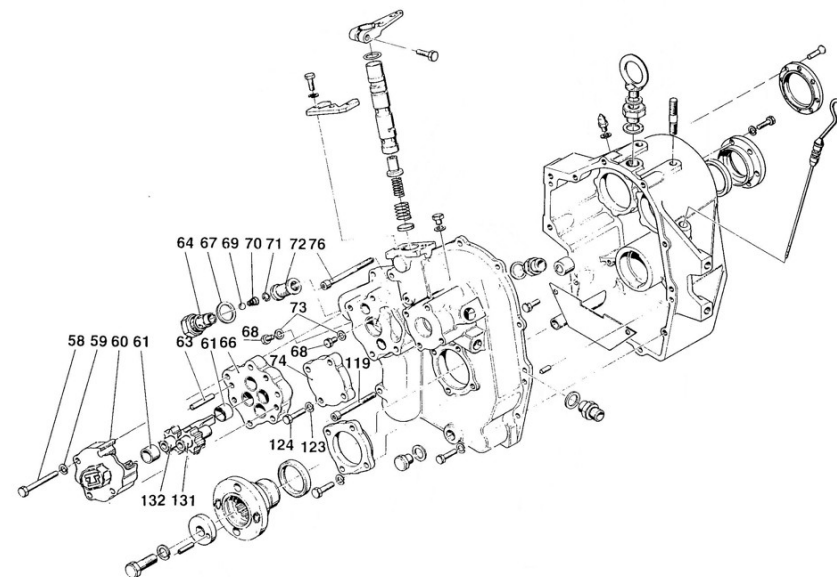
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
100	24810103S	1	Grommet, Oil SILICON			
107	24810001	1	Front Body TM 93			
108	24810080	1	Plate Pipe			
109	24810081	1	ASPIRATION Tube			
110	24810082	2	Screw			
111	24810060	1	Racord			
112	24810059	1	Plane Washer			
113	24810085	2	Pin			
114	24810002	1	Reverse Body TM 93			
115	53033008	13	Washer GROWER DIN 127-8			
116	52102258	13	Bolt DIN 933 M8-25 8.8			
117	24810088	1	Plane Washer			
118	24810011	1	Plug,oil drain			
120	24810090	1	Cover			
125	24810214	1	Oil Grommet			
126	24810224	1	Flange, Output			
127	24810219	1	BUTT Washer			
128	24840220	1	Pin			
129	24810221	1	Washer			
130	24810222	1	Bolt DIN 933 M14X40 12.9			
NS	24810046	1	Pump Assy Oil			
NS	24810098	3	Screw			



D_5030_1.2

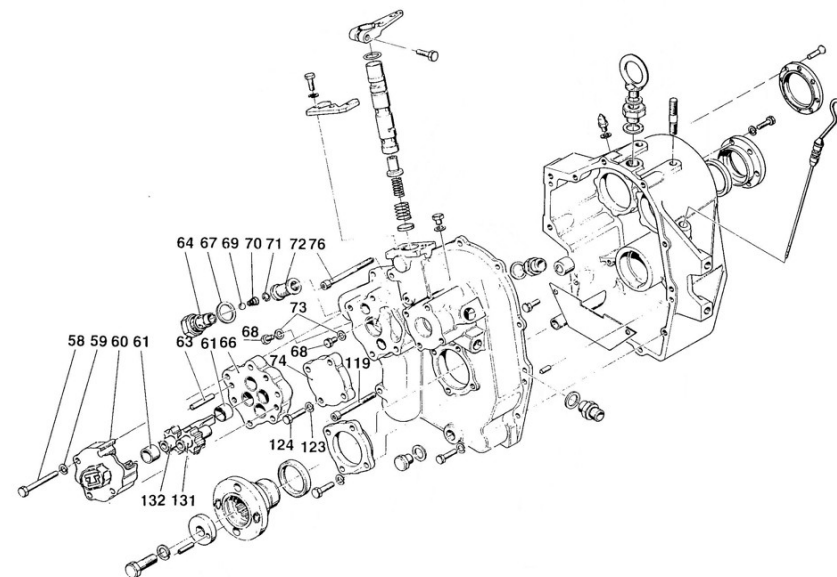
Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
58	52101266	4	Bolt DIN 931 M8-65 8.8			
58	52101266	4	Bolt DIN 931 M8-65 8.8			
59	24810014	4	Washer			
59	24810014	4	Washer			
60	24810004	1	Oil Pump Body Cover			
60	24810004	1	Oil Pump Body Cover			
61	24810025	4	Bushing			
61	24810025	4	Bushing			
63	24820023.1	2	Pin			
63	24820023.1	2	Pin			
64	24810024	1	Plug, Oil Filter DRAIN			
64	24810024	1	Plug, Oil Filter DRAIN			
66	24810003	1	Oil Pump Body, Engine Side			
66	24810003	1	Oil Pump Body, Engine Side			
67	24810027	1	Washer			
67	24810027	1	Washer			
68	24810028	2	Screw			
68	24810028	2	Screw			
69	18024143	1	Ball,steel 1/2"			
69	18024143	1	Ball,steel 1/2"			
70	24810030	1	Valve Spring			
70	24810030	1	Valve Spring			
71	24810032	1	SNAP Ring			
71	24810032	1	SNAP Ring			
72	24810035	1	Oil Filter			
72	24810035	1	Oil Filter			
73	24810036	2	Washer			
73	24810036	2	Washer			
74	24810038	1	Cover			
74	24810038	1	Cover			
76	24810040	1	Screw			



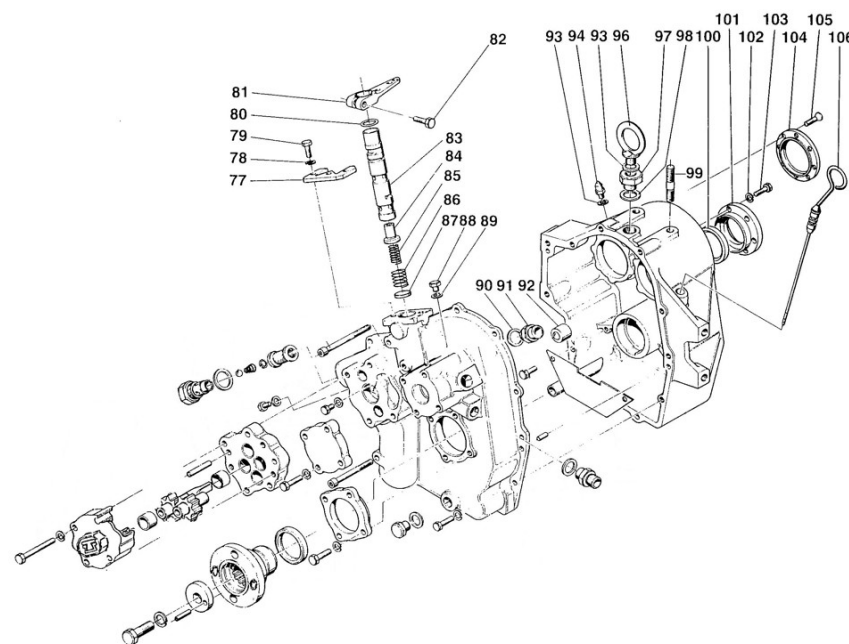
D_5030_1.2 Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
119	24810089	1	Screw			
123	53033008	4	Washer GROWER DIN 127-8			
123	53033008	4	Washer GROWER DIN 127-8			
124	52102258	4	Bolt DIN 933 M8-25 8.8			
124	52102258	4	Bolt DIN 933 M8-25 8.8			
131	24810095	1	Gear, Driven			
131	24810095	1	Gear, Driven			
132	24810096	1	Gear, Driver			
132	24810096	1	Gear, Driver			
NS	52103158	3	Bolt DIN 912 M6-25 8.8			
NS	52103158	3	Bolt DIN 912 M6-25 8.8			



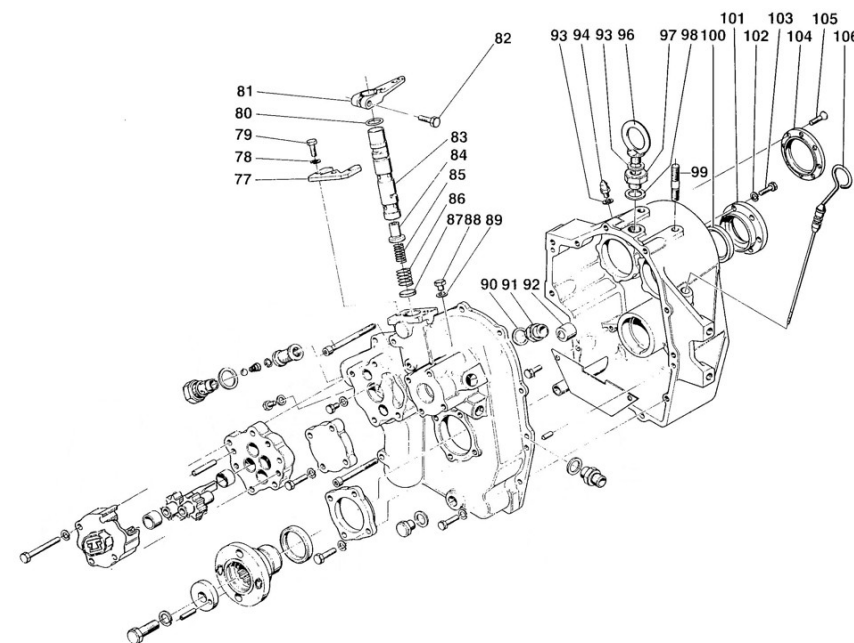
D_5030_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
77	24810041	1	Support			
77	24810041	1	Support			
78	24810042	2	Washer			
78	24810042	2	Washer			
79	24810044	2	Screw			
79	24810044	2	Screw			
80	24810056	1	O-Ring			
80	24810056	1	O-Ring			
81	24810424	1	Lever			
81	24810424	1	Lever			
82	24810047	1	Screw			
82	24810047	1	Screw			
83	24810051	1	Distributor			
83	24810051	1	Distributor			
84	24810052	1	Valve			
84	24810052	1	Valve			
85	24810053	1	Spring, Valve INNER			
85	24810053	1	Spring, Valve INNER			
86	24810054	1	Spring, Valve			
86	24810054	1	Spring, Valve			
87	24810055	1	Expansion Plug			
87	24810055	1	Expansion Plug			
88	24810028	1	Screw			
88	24810028	1	Screw			
89	24810036	1	Washer			
89	24810036	1	Washer			
90	24810059	1	Plane Washer			
90	24810059	1	Plane Washer			
91	24810060	1	Racord			
91	24810060	1	Racord			
92	24810062	1	Valve BY PASS			



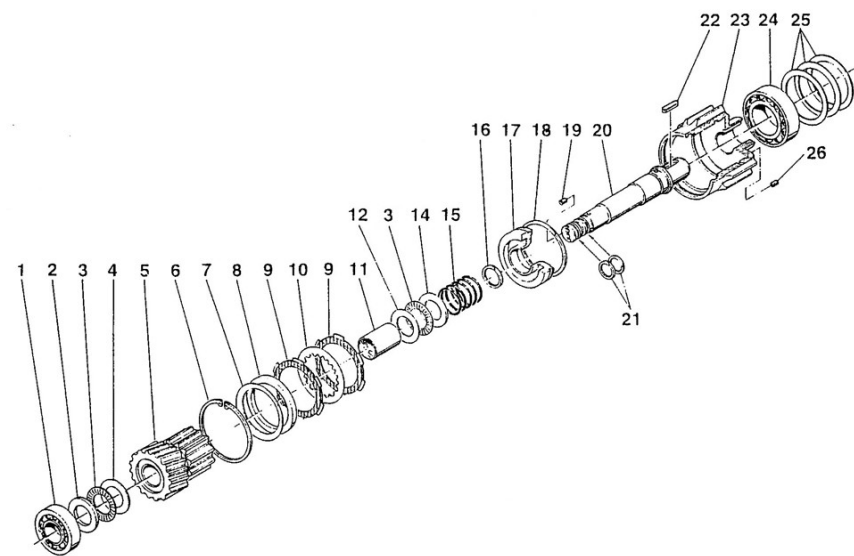
D_5030_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
93	24810063	2	Plane Washer			
94	24810065	1	Plug			
94	24810065	1	Plug			
96	24810012	1	Nut			
96	24810012	1	Nut			
97	24810068	1	Plug			
97	24810068	1	Plug			
98	56000083	1	Washer 21-26-1,5			
98	56000083	1	Washer 21-26-1,5			
99	24810071	2	Stud			
99	24810071	2	Stud			
100	24810103S	1	Grommet, Oil SILICON			
100	24810103S	1	Grommet, Oil SILICON			
101	24810072	1	Cover			
101	24810072	1	Cover			
102	53033008	6	Washer GROWER DIN 127-8			
102	53033008	6	Washer GROWER DIN 127-8			
103	52102258	6	Bolt DIN 933 M8-25 8.8			
103	52102258	6	Bolt DIN 933 M8-25 8.8			
104	24810075	1	Cover			
104	24810075	1	Cover			
105	24810076	8	Screw			
105	24810076	8	Screw			
106	24830008	1	ROD, LEVEL Oil			
106	24830008	1	ROD, LEVEL Oil			

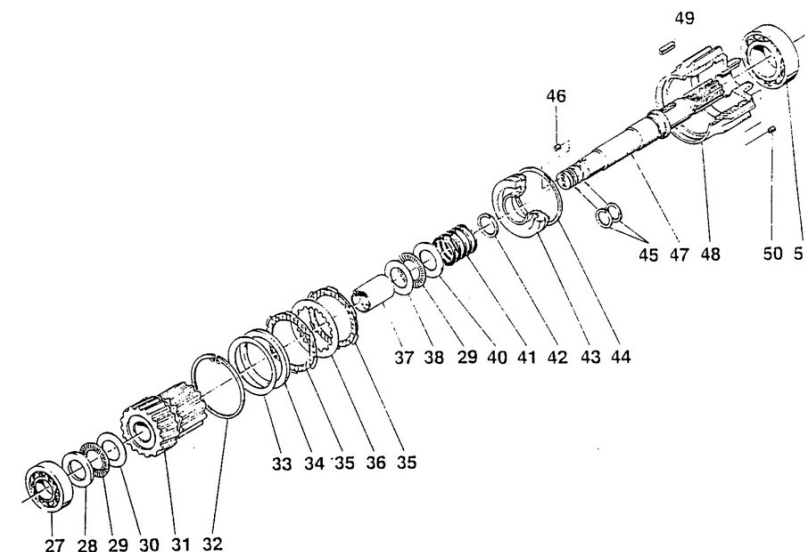


D_5030_2 Intermediate Shaft 2/4

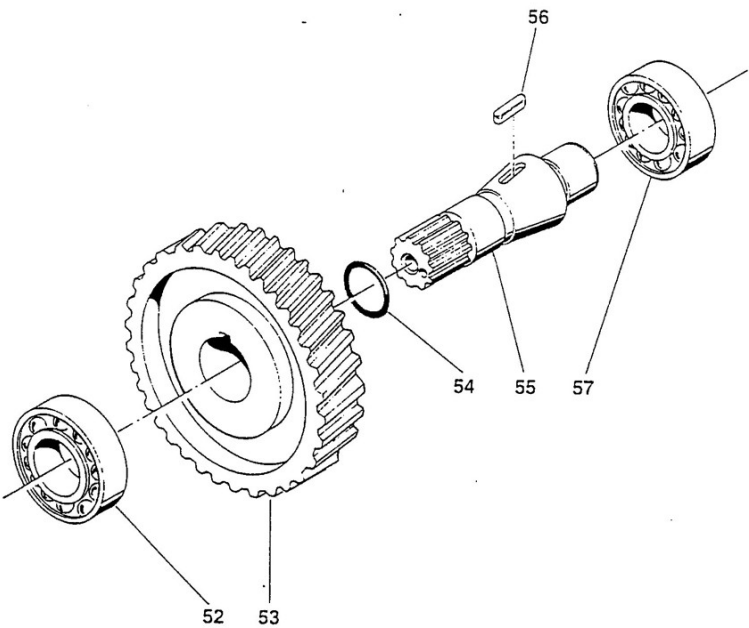
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24870207	1	Bearing			
2	24810307	1	Washer			
3	24810309	2	Roller			
4	24810310	1	Ring			
5A	24812302	1	Gear R. 1,5 TM 93			
5B	24813302	1	Gear R. 2 TM 93			
5C	24814302	1	Gear R. 2,4 TM 93			
5D	24815302	1	Gear R. 2,8 TM 93			
6	24810312	1	SNAP Ring			
7	24810313	1	Ring			
8	24810314	1	Grommet			
9	24810315	10	Disk			
10	24810316	9	Disk			
11	24810317	1	BushING			
12	24870118	1	THRUST RACE			
14	24870318	1	THRUST RACE			
15	24810322	1	Spring			
16	24810323	1	Washer			
17	24810324	1	Piston			
18	24810325	1	Washer			
19	24810326	1	Plug			
20	24810301	1	INTERMEDIATE Shaft			
21	24810328	2	Washer			
22	24810329	1	KEY			
23	24810330	1	Bell			
24	24870206	1	Bearing			
25	24810333	0	Spacer	#		
26	24810334	1	Plug			



D_5030_3		Input Shaft 3/4			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
27	24870207	1	Bearing		
28	24810307	1	Washer		
29	24810309	2	Roller		
30	(*)	1	Not available		
31A	24812302	1	Gear R. 1,5 TM 93		
31B	24813302	1	Gear R. 2 TM 93		
31C	24814302	1	Gear R. 2,4 TM 93		
31D	24815302	1	Gear R. 2,8 TM 93		
32	24810312	1	SNAP Ring		
33	24810313	1	Ring		
34	24810314	1	Grommet		
35	24810315	10	Disk		
36	24810316	9	Disk		
37	24810317	1	BushING		
38	24870118	1	THRUST RACE		
40	24870318	1	THRUST RACE		
41	24810322	1	Spring		
42	24810323	1	Washer		
43	24810324	1	Piston		
44	24810325	1	Washer		
45	24810328	2	Washer		
46	24810326	1	Plug		
47	24810101	1	Input Shaft		
48	24810330	1	Bell		
49	24810329	1	KEY		
50	24810334	1	Plug		
51	24870206	1	Bearing		

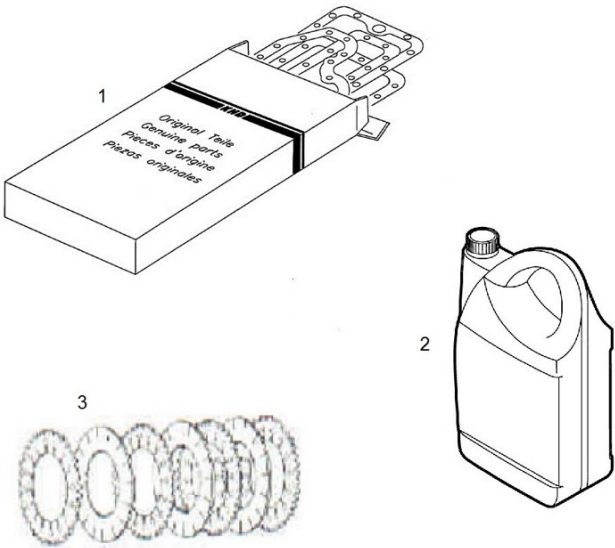


D_5030_4		Output Shaft 4/4			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
52	24810206	1	Conical Roller Bearing 32208		
5355	24812201C	1	Gear+Output Shaft Kit R 1.51		
5355	24813201C	1	Gear+Output Shaft Kit R 2.09		
5355	24814201C	1	Gear+Output Shaft Kit R 2.40		
5355	24815201C	1	Gear+Output Shaft Kit R 2.77		
54	24810209	1	O-Ring D. 38X3,5		
57	24810212	1	Bearing		



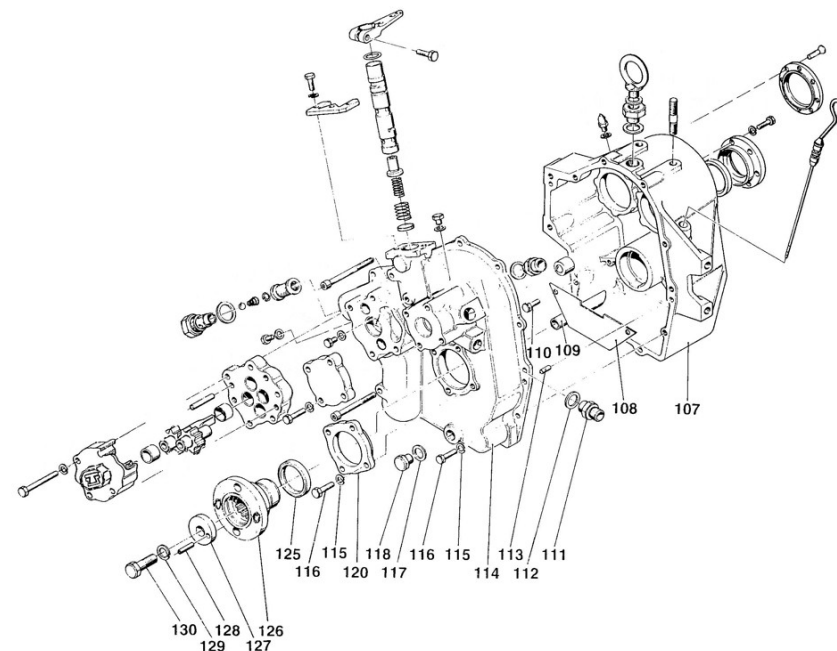


D_5030_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24810401	1	Kit Gasket			
2	A0105000	1	15W40 Sole Diesel Oil 5L			
3	24810403	2	Clutch Plate Kit			



D_5031_1.1 Sheet 1.1/4

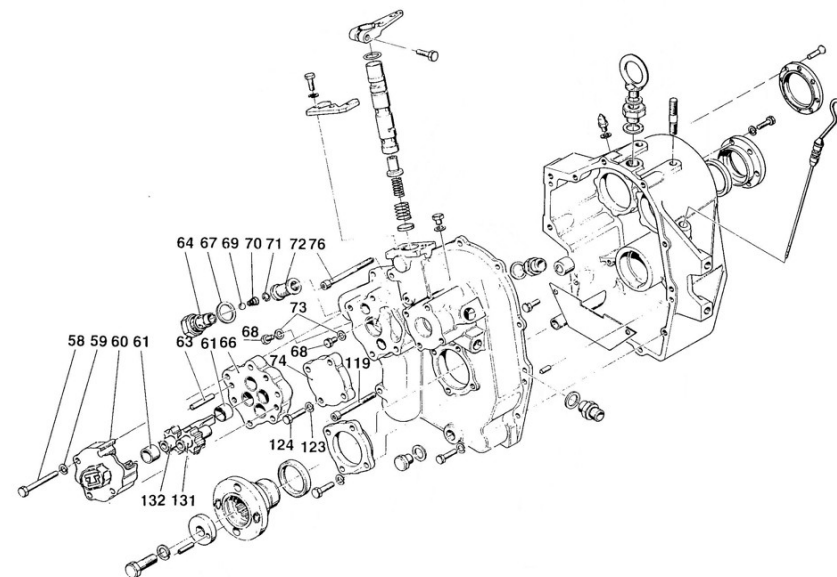
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
107	24810001A	1	Front Body TM 93A			
108	24810080	1	Plate Pipe			
109	24810081	1	ASPIRATION Tube			
110	24810082	2	Screw			
111	24810060	1	Racord			
112	24810059	1	Plane Washer			
113	24810085	2	Pin			
114	24810002A	1	Reverse Body TM 93A			
115	53033008	13	Washer GROWER DIN 127-8			
116	52102258	13	Bolt DIN 933 M8-25 8.8			
117	24810088	1	Plane Washer			
118	24810011	1	Plug,oil drain			
120	24810090	1	Cover			
125	24810214	1	Oil Grommet			
126	24810224	1	Flange, Output			
127	24810219	1	BUTT Washer			
128	24840220	1	Pin			
129	24810221	1	Washer			
130	24810222	1	Bolt DIN 933 M14X40 12.9			
NS	24810046	1	Pump Assy Oil			
NS	24810098	3	Screw			



D_5030_1.2

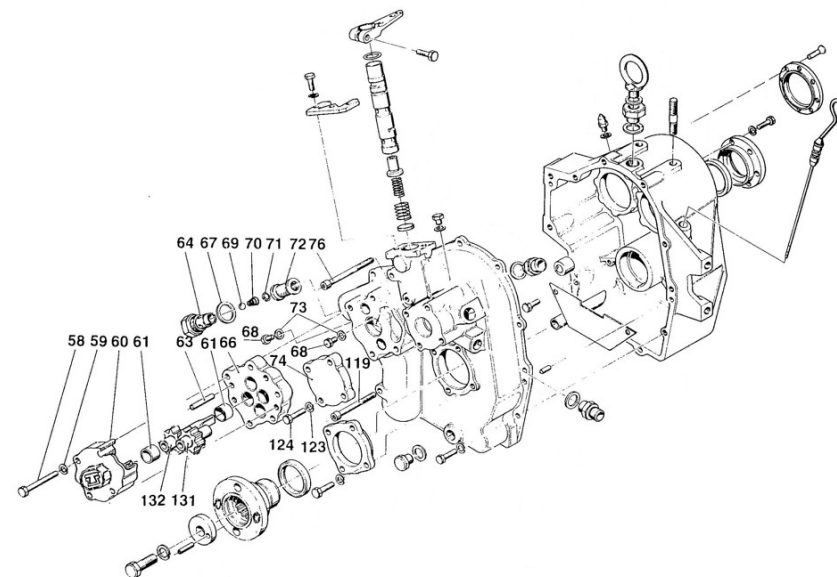
Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
58	52101266	4	Bolt DIN 931 M8-65 8.8			
58	52101266	4	Bolt DIN 931 M8-65 8.8			
59	24810014	4	Washer			
59	24810014	4	Washer			
60	24810004	1	Oil Pump Body Cover			
60	24810004	1	Oil Pump Body Cover			
61	24810025	4	Bushing			
61	24810025	4	Bushing			
63	24820023.1	2	Pin			
63	24820023.1	2	Pin			
64	24810024	1	Plug, Oil Filter DRAIN			
64	24810024	1	Plug, Oil Filter DRAIN			
66	24810003	1	Oil Pump Body, Engine Side			
66	24810003	1	Oil Pump Body, Engine Side			
67	24810027	1	Washer			
67	24810027	1	Washer			
68	24810028	2	Screw			
68	24810028	2	Screw			
69	18024143	1	Ball,steel 1/2"			
69	18024143	1	Ball,steel 1/2"			
70	24810030	1	Valve Spring			
70	24810030	1	Valve Spring			
71	24810032	1	SNAP Ring			
71	24810032	1	SNAP Ring			
72	24810035	1	Oil Filter			
72	24810035	1	Oil Filter			
73	24810036	2	Washer			
73	24810036	2	Washer			
74	24810038	1	Cover			
74	24810038	1	Cover			
76	24810040	1	Screw			



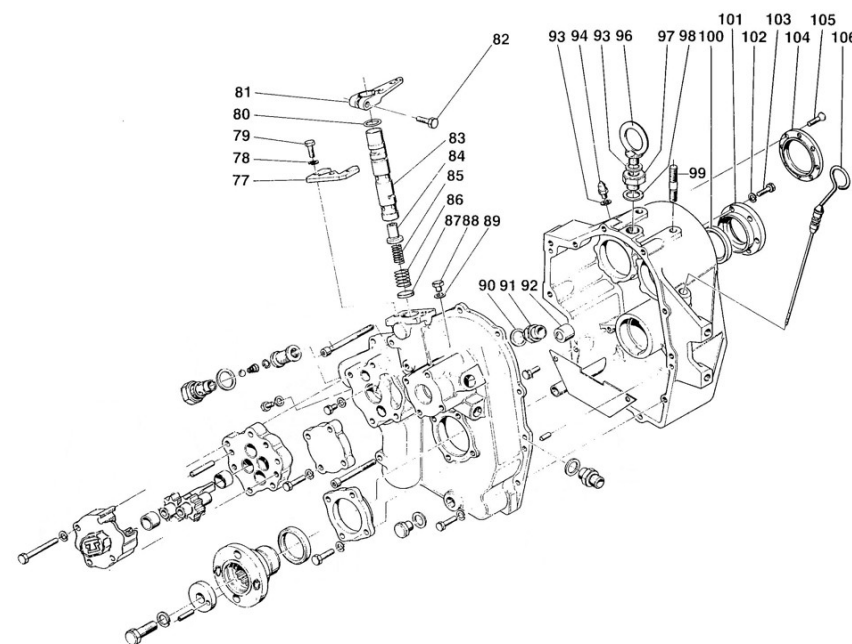
D_5030_1.2 Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
119	24810089	1	Screw			
123	53033008	4	Washer GROWER DIN 127-8			
123	53033008	4	Washer GROWER DIN 127-8			
124	52102258	4	Bolt DIN 933 M8-25 8.8			
124	52102258	4	Bolt DIN 933 M8-25 8.8			
131	24810095	1	Gear, Driven			
131	24810095	1	Gear, Driven			
132	24810096	1	Gear, Driver			
132	24810096	1	Gear, Driver			
NS	52103158	3	Bolt DIN 912 M6-25 8.8			
NS	52103158	3	Bolt DIN 912 M6-25 8.8			



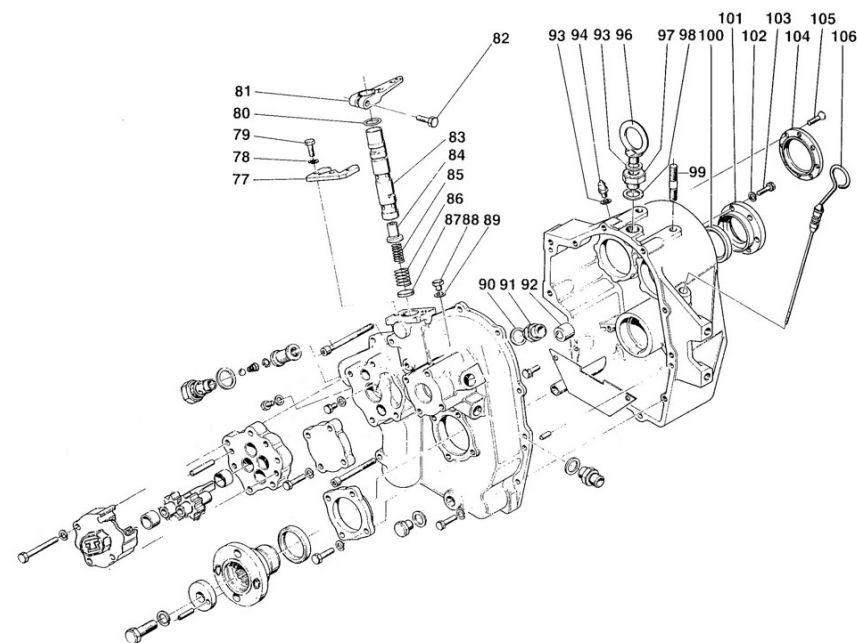
D_5030_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
77	24810041	1	Support			
77	24810041	1	Support			
78	24810042	2	Washer			
78	24810042	2	Washer			
79	24810044	2	Screw			
79	24810044	2	Screw			
80	24810056	1	O-Ring			
80	24810056	1	O-Ring			
81	24810424	1	Lever			
81	24810424	1	Lever			
82	24810047	1	Screw			
82	24810047	1	Screw			
83	24810051	1	Distributor			
83	24810051	1	Distributor			
84	24810052	1	Valve			
84	24810052	1	Valve			
85	24810053	1	Spring, Valve INNER			
85	24810053	1	Spring, Valve INNER			
86	24810054	1	Spring, Valve			
86	24810054	1	Spring, Valve			
87	24810055	1	Expansion Plug			
87	24810055	1	Expansion Plug			
88	24810028	1	Screw			
88	24810028	1	Screw			
89	24810036	1	Washer			
89	24810036	1	Washer			
90	24810059	1	Plane Washer			
90	24810059	1	Plane Washer			
91	24810060	1	Racord			
91	24810060	1	Racord			
92	24810062	1	Valve BY PASS			



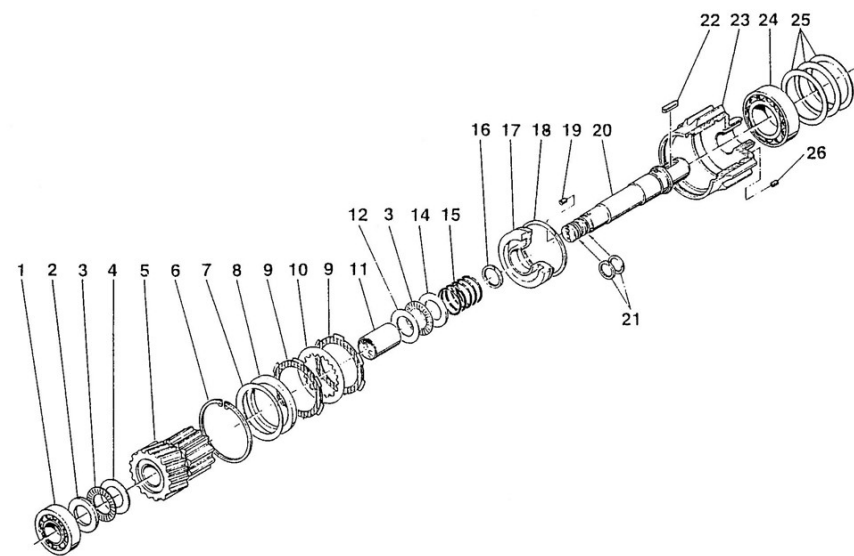
D_5030_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
93	24810063	2	Plane Washer			
94	24810065	1	Plug			
94	24810065	1	Plug			
96	24810012	1	Nut			
96	24810012	1	Nut			
97	24810068	1	Plug			
97	24810068	1	Plug			
98	56000083	1	Washer 21-26-1,5			
98	56000083	1	Washer 21-26-1,5			
99	24810071	2	Stud			
99	24810071	2	Stud			
100	24810103S	1	Grommet, Oil SILICON			
100	24810103S	1	Grommet, Oil SILICON			
101	24810072	1	Cover			
101	24810072	1	Cover			
102	53033008	6	Washer GROWER DIN 127-8			
102	53033008	6	Washer GROWER DIN 127-8			
103	52102258	6	Bolt DIN 933 M8-25 8.8			
103	52102258	6	Bolt DIN 933 M8-25 8.8			
104	24810075	1	Cover			
104	24810075	1	Cover			
105	24810076	8	Screw			
105	24810076	8	Screw			
106	24830008	1	ROD, LEVEL Oil			
106	24830008	1	ROD, LEVEL Oil			

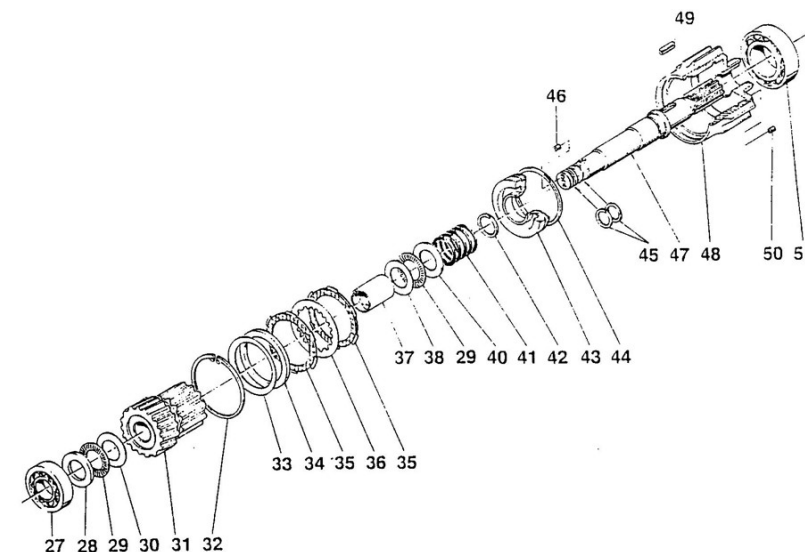


D_5031_2 Intermediate Shaft 2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24870207	1	Bearing			
2	24810307	1	Washer			
3	24810309	2	Roller			
4	24810310	1	Ring			
5	24812302A	1	Gear R. 1,5 TM 93A			
5	24813302A	1	Gear Red. 2 TM 93A			
5	24814302A	1	Gear R. 2,4 TM 93A			
6	24810312	1	SNAP Ring			
7	24810313	1	Ring			
8	24810314	1	Grommet			
9	24810315	10	Disk			
10	24810316	9	Disk			
11	24810317	1	BushING			
12	24870118	1	THRUST RACE			
14	24870318	1	THRUST RACE			
15	24810322	1	Spring			
16	24810323	1	Washer			
17	24810324	1	Piston			
18	24810325	1	Washer			
19	24810326	1	Plug			
20	24810301	1	INTERMEDIATE Shaft			
21	24810328	2	Washer			
22	24810329	1	KEY			
23	24810330	1	Bell			
24	24870206	1	Bearing			
25	24810333	0	Spacer	#		
26	24810334	1	Plug			

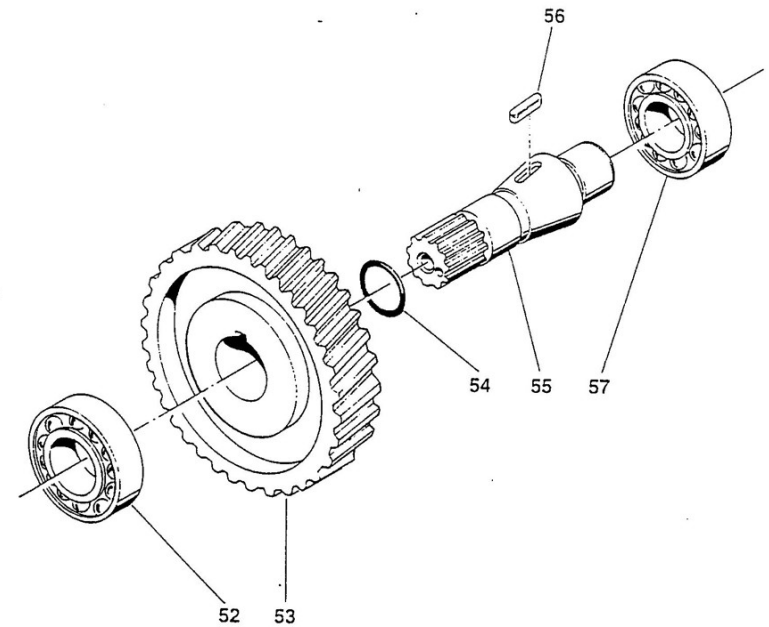


D_5031_3		Input Shaft 3/4			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
27	24870207	1	Bearing		
28	24810307	1	Washer		
29	24810309	2	Roller		
30	(*)	1	Not available		
31	24812302	1	Gear R. 1,5 TM 93		
31	24813302	1	Gear R. 2 TM 93		
31	24814302	1	Gear R. 2,4 TM 93		
32	24810312	1	SNAP Ring		
33	24810313	1	Ring		
34	24810314	1	Grommet		
35	24810315	10	Disk		
36	24810316	9	Disk		
37	24810317	1	BushING		
38	24870118	1	THRUST RACE		
40	24870318	1	THRUST RACE		
41	24810322	1	Spring		
42	24810323	1	Washer		
43	24810324	1	Piston		
44	24810325	1	Washer		
45	24810328	2	Washer		
46	24810326	1	Plug		
47	24810101	1	Input Shaft		
48	24810330	1	Bell		
49	24810329	1	KEY		
50	24810334	1	Plug		
51	24870206	1	Bearing		



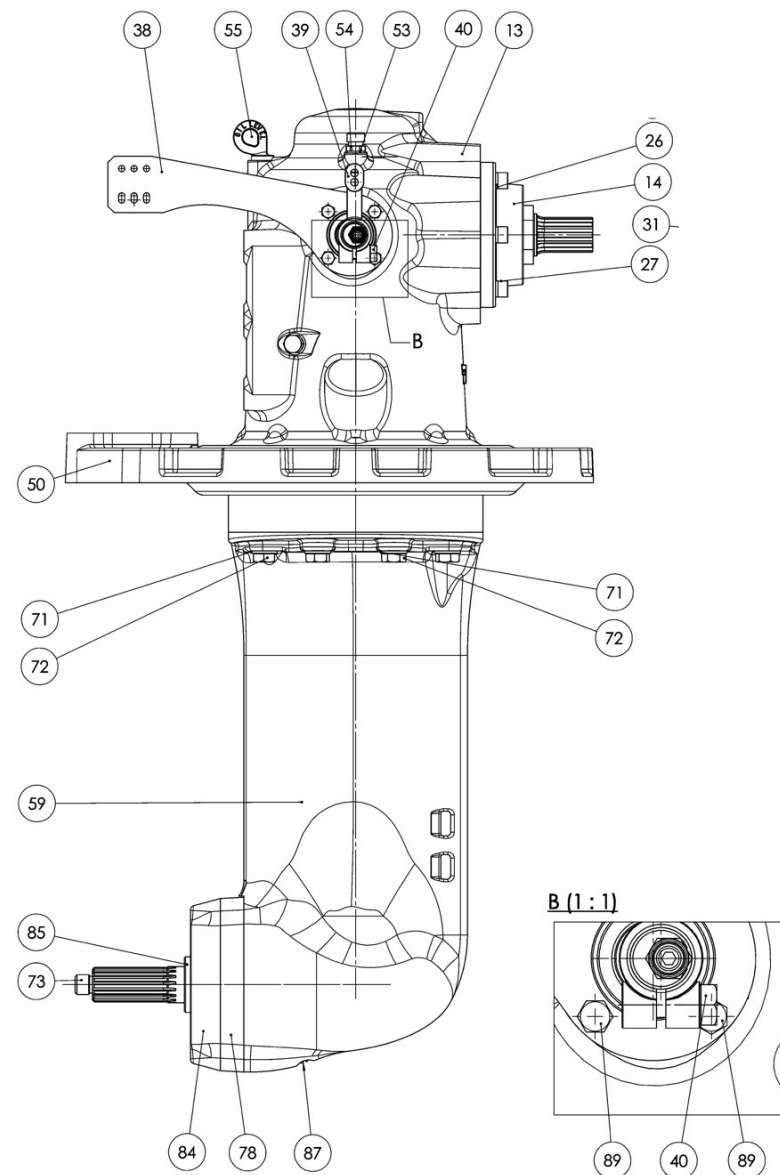
D_5031_4 Output Shaft 4/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
52	24810206	1	Conical Roller Bearing 32208			
5355	24812201AC	1	Gear+Output Shaft Kit			
5355	24813201AC	1	Gear+Output Shaft Kit r 2,09			
5355	24814201AC	1	Gear+Output Shaft Kit r 2,40			
54	24810209	1	O-Ring D. 38X3,5			
57	24810212	1	Bearing			



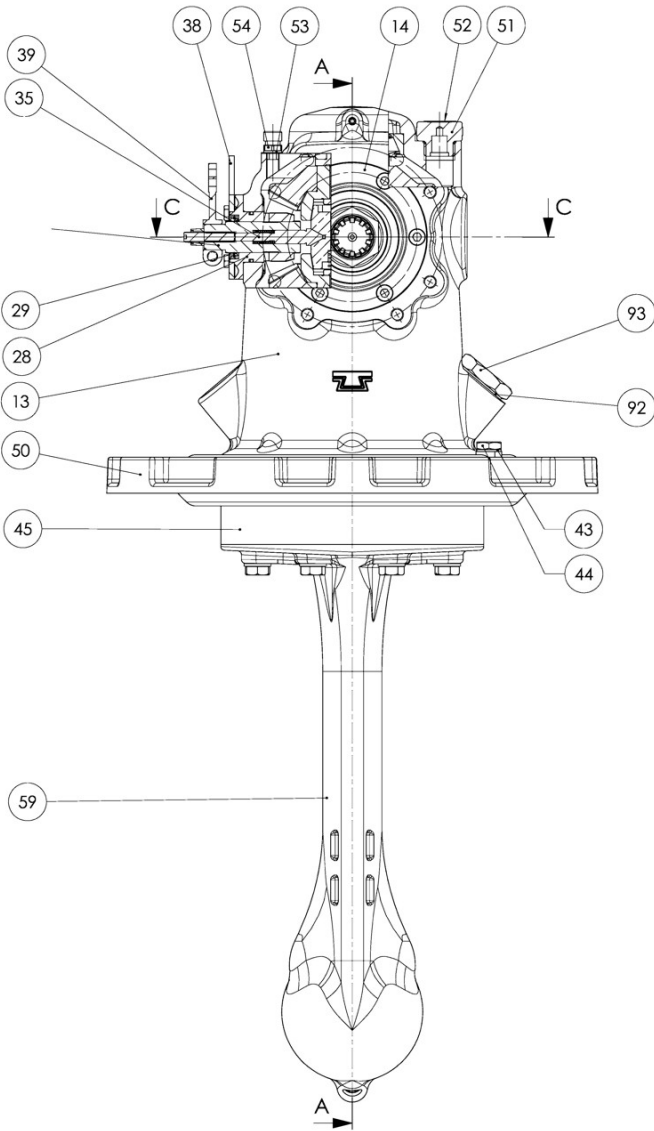
D_5037_1 Sheet 1/4 SP60 S.Drive V1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
13	24813500.13.1	1	Body			
26	24813500.26	6	Washer			
27	52103259	6	Bolt DIN 912 M8-30 8.8			
38	24813500.38	1	Bracket Control			
39	24810424	1	Lever			
40	52102258	1	Bolt DIN 933 M8-25 8.8			
50	24813500.50	1	Flange CLOSING MEMBRANE			
53	24810063	2	Plane Washer			
54	24810065	1	Plug			
55	24813500.55	1	Gauge Oil LEVEL			
59	24813500.59	1	Body			11/05/2020
71	24830223	8	Washer			
72	24813500.72	8	Screw			
73	24813500.73	1	Propeller Shaft			
78	24813500.78	1	Body			
84	24813500.84	1	Anode SP60 (Saltwater)			
85	24813500.85	1	Spacer			
87	24813500.87	1	Plug,oil drain			
89	52102154	4	Bolt DIN 933 M6-10 8.8			



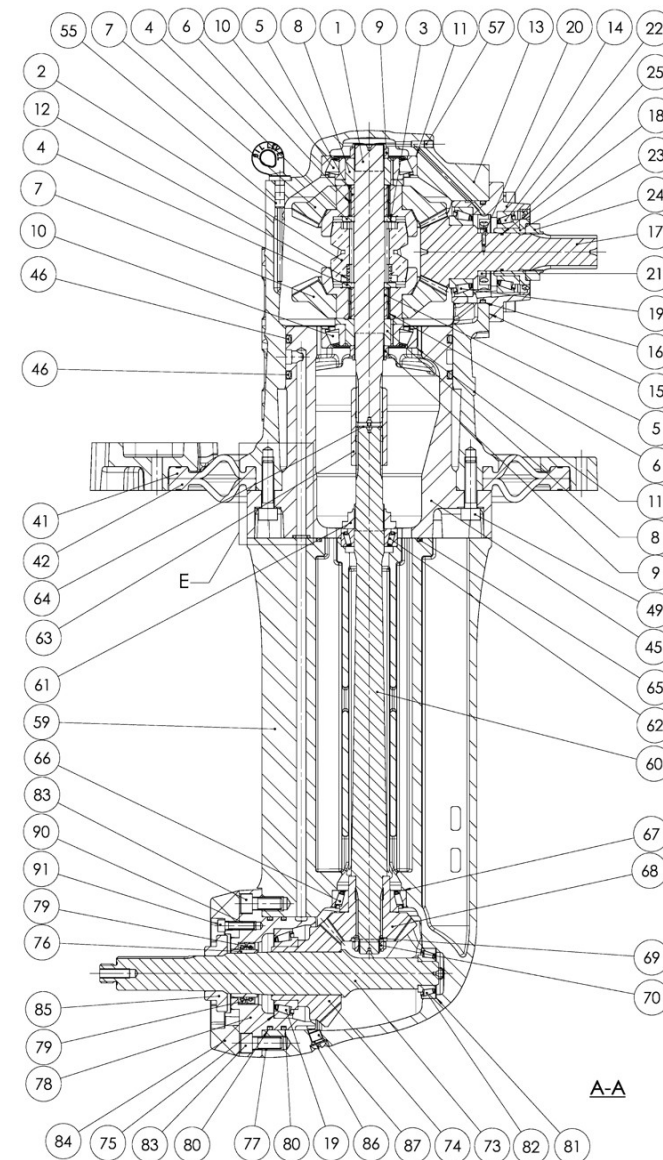
D_5037_2 Sheet 2/4 SP60 S.Drive V1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
14	24813500.14	1	Body			
28	24813500.28	1	Body Control			
29	24860404	1	Oil Seal			
31	24860402	1	Shaft			
35	24860423	1	PAD			
43	24810522	1	Washer			
44	24813500.44	1	Plug			
45	24813500.45	1	Cover			
51	24813500.51	1	Plug			
52	24860006	1	ATF Oil Plate			
92	24830035	1	Washer			
93	24813500.93	1	Plug			



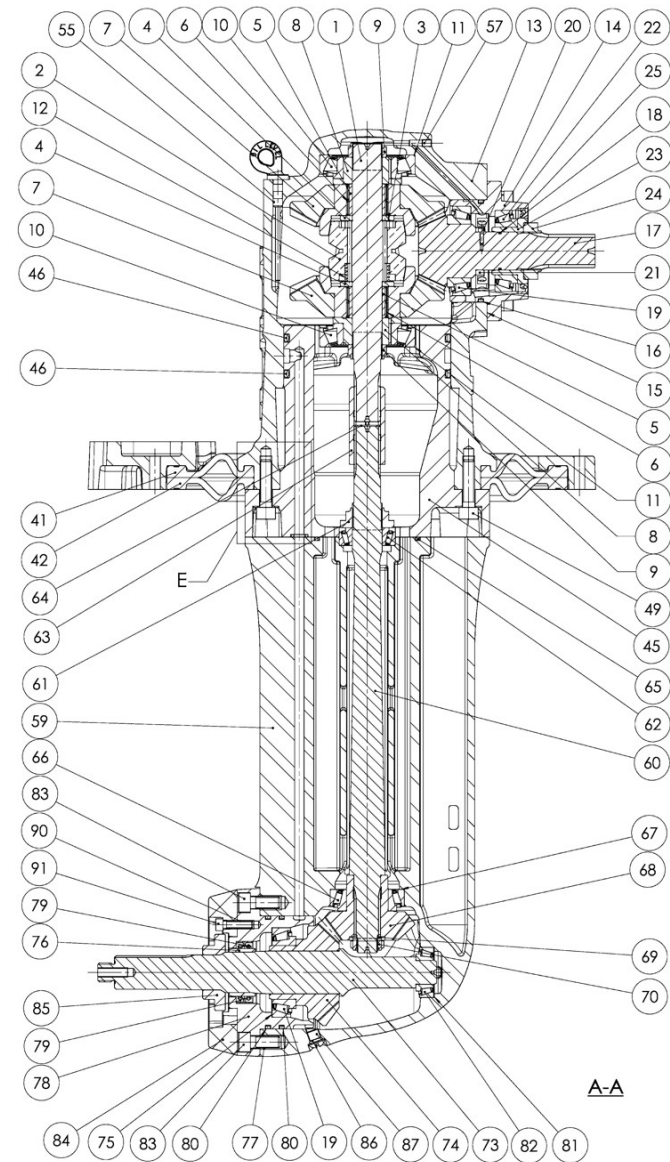
D_5037_3 Sheet 3/4 SP60 S.Drive V1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24813500.01	1	Shaft,Output			
2	24813500.02	1	Cone Clutch			
3	24813500.03	4	Spacer			
4	24860217	2	Spacer			
5	24813500.05	2	Ring,Bearing			
6	24813500.06	4	Bearing, needle			
7	24813500.07	2	Gear			
8	24813500.08	2	Cover			
9	24813500.09	2	Nut			
10	24813500.10	2	Bearing			
11	24810333	2	Spacer			
12	24813500.12	1	Spring			
17	24813500.17	1	Shaft			
20	24813500.20	1	Screw			
41	24813500.41	1	Gasket			
42	24813500.42	1	Gasket			
46	24813500.46	2	O-Ring			
57	24810506	1	Screw			
60	24813500.60	1	Shaft			
61	24813500.61	1	Ring			
62	24860206	1	Conical Roller Bearing 32005			
63	24813500.63	1	Guide			
64	24813500.64	1	CIRClip			
65	24813500.65	1	O-Ring			
66	24813500.66	1	Bearing			
67	24813500.67	2	Spacer			
68	24813500.68	1	Gear			
69	24813500.69	2	Washer			
70	24813500.70	1	Nut			
74	24813500.74	1	Gear			
75	24850108	2	Shim Adjusting			



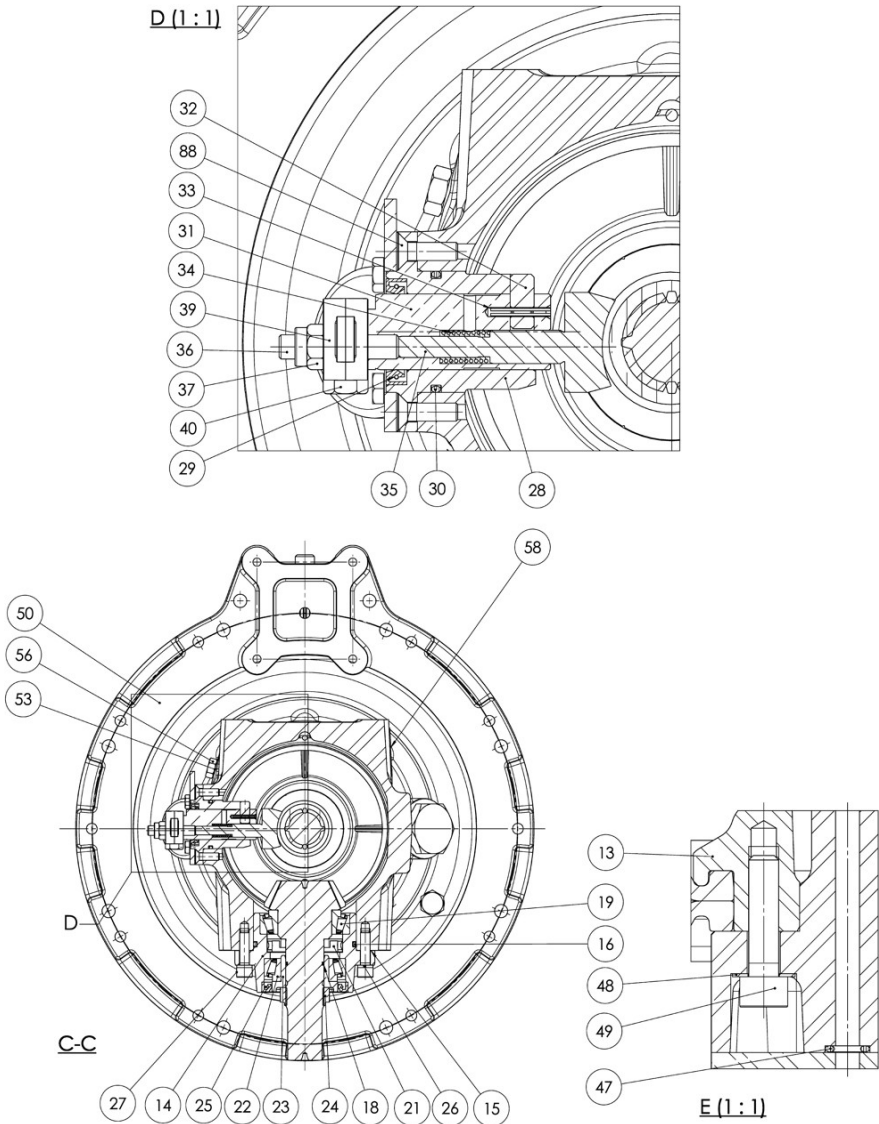
D_5037_3 Sheet 3/4 SP60 S.Drive V1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
76	24813500.76	1	Bushing			
77	24813500.77	2	HELICOil			
79	24813500.79	2	Oil Seal			
80	24813500.80	2	O-Ring D. 90X3,5			
81	24813500.81	3	Spacer			
82	24813500.82	1	Bearing			
83	24813500.83	2	Screw			
86	24813500.86	1	O-Ring D. 8X1,5			
90	24813500.90	3	HELICOil			
91	24813500.91	3	Screw			



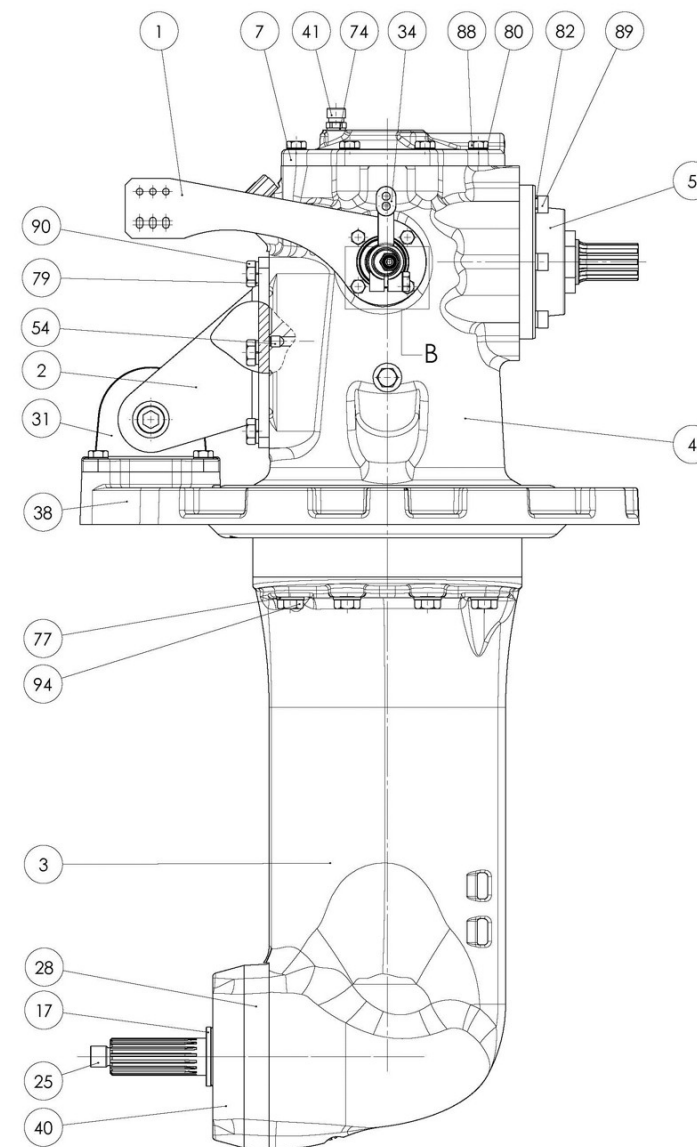
D_5037_4 Sheet 4/4 SP60 S.Drive V1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
15	24813500.15	2	Spacer			
16	24813500.16	1	O-Ring			
18	24813500.18	1	O-Ring			
19	24850104	2	Conical Roller Bearing 32009-X			
21	24813500.21	1	Impeller			
22	24813500.22	1	Bearing			
23	24813500.23	1	Cover			
24	24813500.24	1	Nut			
25	24813500.25	1	Oil Seal			
30	24860417	1	O-Ring			
32	24860419	1	Pin			
33	53052210	1	Pin DIN 1481 3-20			
34	24860411	1	Spring			
36	24860409	1	Screw			
37	51123008	1	Nut DIN 985 M8 5.6			
47	24813500.47	1	O-Ring			
48	24813500.48	8	Washer			
49	24813500.49	8	Screw			
56	24850011	1	Plug,oil drain			
58	24850005	1	Plate, IDENTIFICATION			
88	24813500.88	4	Screw			



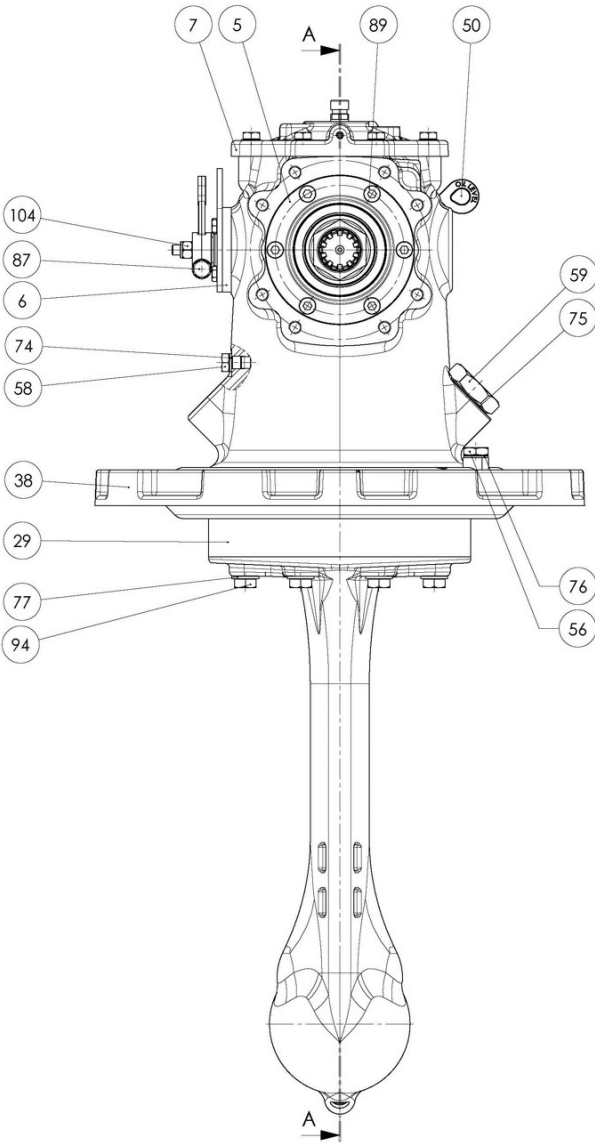
D_5037_6 Sheet 1/4 SP60 S.Drive V2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24813500.38	1	Bracket Control		27/09/2016	
2	24813500.95	1	Bracket		27/09/2016	
3	24813500.59	1	Body		27/09/2016	11/05/2020
4	24813500.13.1	1	Body		27/09/2016	
5	24813500.14	1	Body		27/09/2016	
7	24813500.104.1	1	Body		27/09/2016	
17	24813500.94	1	Spacer		27/09/2016	
25	24813500.73	1	Propeller Shaft		27/09/2016	
28	24813500.78	1	Body		27/09/2016	
31	24813500.96	1	Flexible		27/09/2016	
34	24810424	1	Lever		27/09/2016	
38	24813500.50	1	Flange CLOSING MEMBRANE		27/09/2016	
40	24813500.116	1	Zinc Anode		27/09/2016	
41	24810065	1	Plug		27/09/2016	20/05/2020
41	T4589038	1	Vent Plug 3/8" Gas		20/05/2020	
54	24813500.123	1	Screw		27/09/2016	
74	24810063	1	Plane Washer		27/09/2016	20/05/2020
77	24813500.126	8	Washer		27/09/2016	
79	53033010	6	Washer GROWER DIN 127-10			
80	24850093	12	Washer		27/09/2016	
82	24813500.26	6	Washer		27/09/2016	
88	52102259	12	Bolt DIN 933 M8-30 8.8			
89	52103259	6	Bolt DIN 912 M8-30 8.8			
90	52102309	6	Bolt DIN 933 M10-30 8.8			



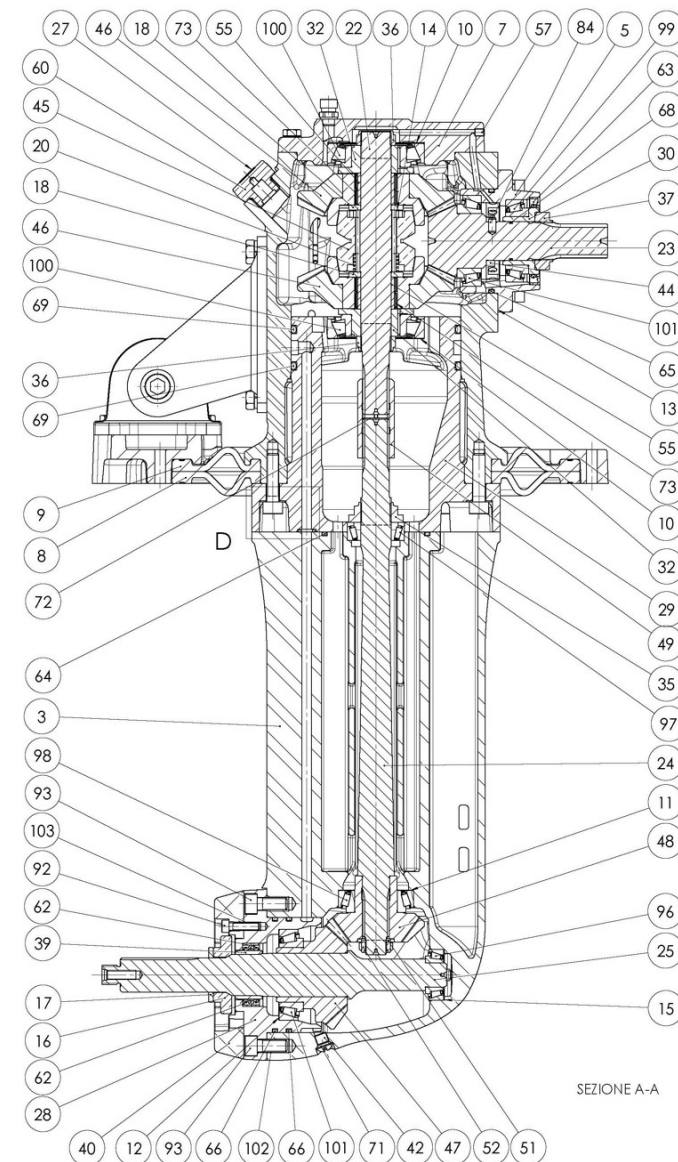
D_5037_7 Sheet 2/4 SP60 S.Drive V2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
6	24813500.28	1	Body Control		27/09/2016	
29	24813500.45	1	Cover		27/09/2016	
50	24813500.121	1	Gauge Oil Level		27/09/2016	
56	24813500.124	1	Plug		27/09/2016	
58	24850011	1	Plug,oil drain		27/09/2016	
59	24813500.93	1	Plug		27/09/2016	
75	24830035	1	Washer		27/09/2016	
76	24810522	1	Washer		27/09/2016	
87	52102258	1	Bolt DIN 933 M8-25 8.8			
94	24813500.72	8	Screw		27/09/2016	
104	24813500.131	1	Nut		27/09/2016	



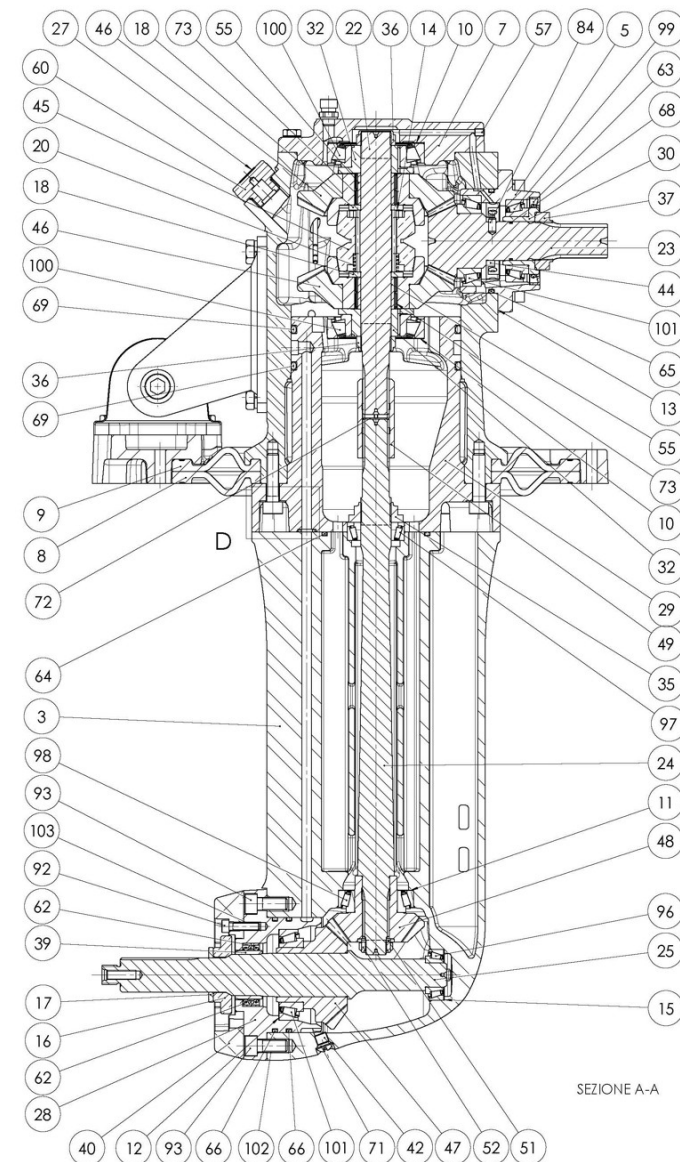
D_5037_8 Sheet 3/4 SP60 S.Drive V2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24813500.42	1	Gasket		27/09/2016	
9	24813500.41	1	Gasket		27/09/2016	
10	24810333	6	Spacer		27/09/2016	
11	24813500.67	2	Spacer		27/09/2016	
12	24850108	2	Shim Adjusting		27/09/2016	
13	24813500.15	2	Spacer		27/09/2016	
14	24813500.03	4	Spacer			
15	24813500.81	3	Spacer		27/09/2016	
16	24813500.85	1	Spacer		27/09/2016	
18	24860217	2	Spacer		27/09/2016	
20	24813500.12	1	Spring		27/09/2016	
22	24813500.114	1	Shaft, Output		27/09/2016	
23	24813500.17	1	Shaft		27/09/2016	
24	24813500.60	1	Shaft		27/09/2016	
27	24860006	1	ATF Oil Plate		27/09/2016	
30	24813500.23	1	Cover		27/09/2016	
32	24813500.115	2	Bearing Support		27/09/2016	
35	24813500.61	1	Ring		27/09/2016	
36	24813500.09	2	Nut		27/09/2016	
37	24813500.24	1	Nut		27/09/2016	
39	24813500.76	1	Bushing		27/09/2016	
42	24813500.87	1	Plug,oil drain		27/09/2016	
44	24813500.21	1	Impeller		27/09/2016	
45	24813500.02	1	Cone Clutch		27/09/2016	
46	24813500.117	2	Gear		27/09/2016	
47	24813500.118	1	Gear		27/09/2016	
48	24813500.119	1	Pinion		27/09/2016	
49	24813500.63	1	Guide			
51	24813500.69	2	Washer			
52	24813500.70	1	Nut		27/09/2016	
55	24813500.05	2	Ring,Bearing		27/09/2016	



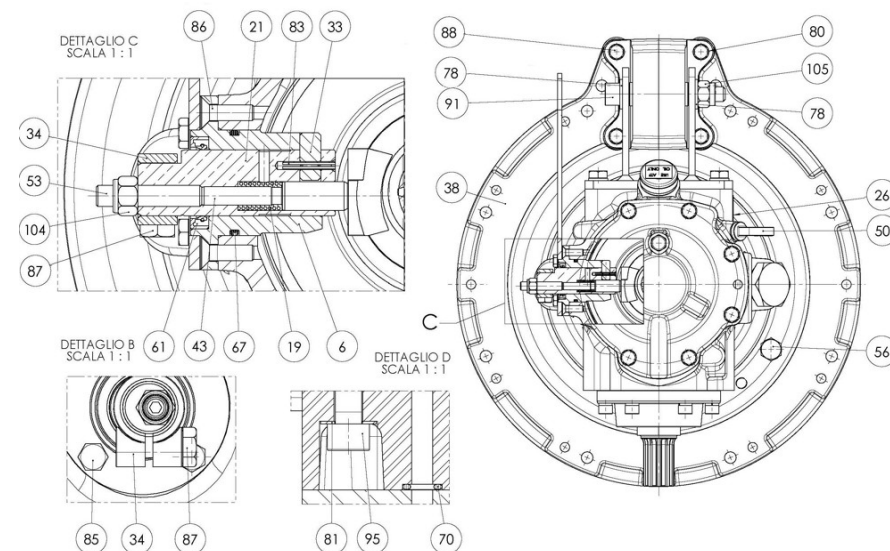
D_5037_8 Sheet 3/4 SP60 S.Drive V2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
57	24810326	1	Plug		27/09/2016	
60	24813500.125	1	Plug		27/09/2016	
62	24813500.79	2	Oil Seal		27/09/2016	
63	24813500.25	1	Oil Seal		27/09/2016	
64	24813500.65	1	O-Ring		27/09/2016	
65	24813500.16	1	O-Ring		27/09/2016	
66	24813500.80	2	O-Ring D. 90X3,5		27/09/2016	
68	24813500.18	1	O-Ring		27/09/2016	
69	24813500.46	2	O-Ring		27/09/2016	
71	24813500.86.1	1	O-Ring		27/09/2016	
72	24813500.64	1	CIRClip		27/09/2016	
73	24813500.06	4	Bearing, needle		27/09/2016	
84	24813500.128	1	Pin		27/09/2016	
92	24813500.91	3	Screw		27/09/2016	
93	24813500.83	2	Screw		27/09/2016	
96	24813500.82	1	Bearing		27/09/2016	
97	24860206	1	Conical Roller Bearing 32005		27/09/2016	
98	24813500.66	1	Bearing		27/09/2016	
99	24813500.22	1	Bearing		27/09/2016	
100	24813500.10	2	Bearing		27/09/2016	
101	24850104	2	Conical Roller Bearing 32009-X		27/09/2016	
102	24813500.77	2	HELICOil		27/09/2016	
103	24813500.90	3	HELICOil			



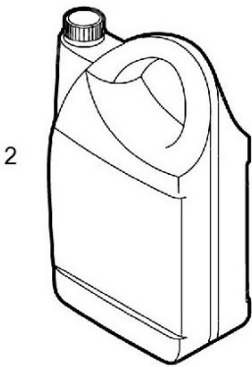
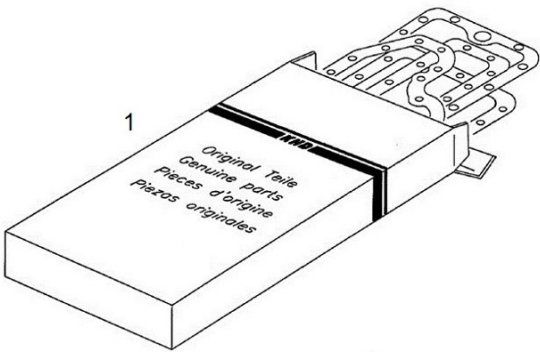
D_5037_9 Sheet 4/4 SP60 S.Drive V2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
19	24860411	1	Spring		27/09/2016	
21	24860402	1	Shaft		27/09/2016	
26	24850005	1	Plate, IDENTIFICATION		27/09/2016	
33	24860419	1	Pin		27/09/2016	
43	24860423	1	PAD		27/09/2016	
53	24860409	1	Screw		27/09/2016	
61	24860404	1	Oil Seal		27/09/2016	
67	24860417	1	O-Ring		27/09/2016	
70	24813500.47	1	O-Ring		27/09/2016	
78	51030014	2	Washer DIN 125-14			
81	24813500.48	8	Washer			
83	53052210	1	Pin DIN 1481 3-20			
85	52102154	4	Bolt DIN 933 M6-10 8.8			
86	24813500.88	4	Screw			
91	24813500.98	1	Bolt		27/09/2016	
95	24813500.49	8	Screw		27/09/2016	
105	24813500.99	1	Nut		27/09/2016	



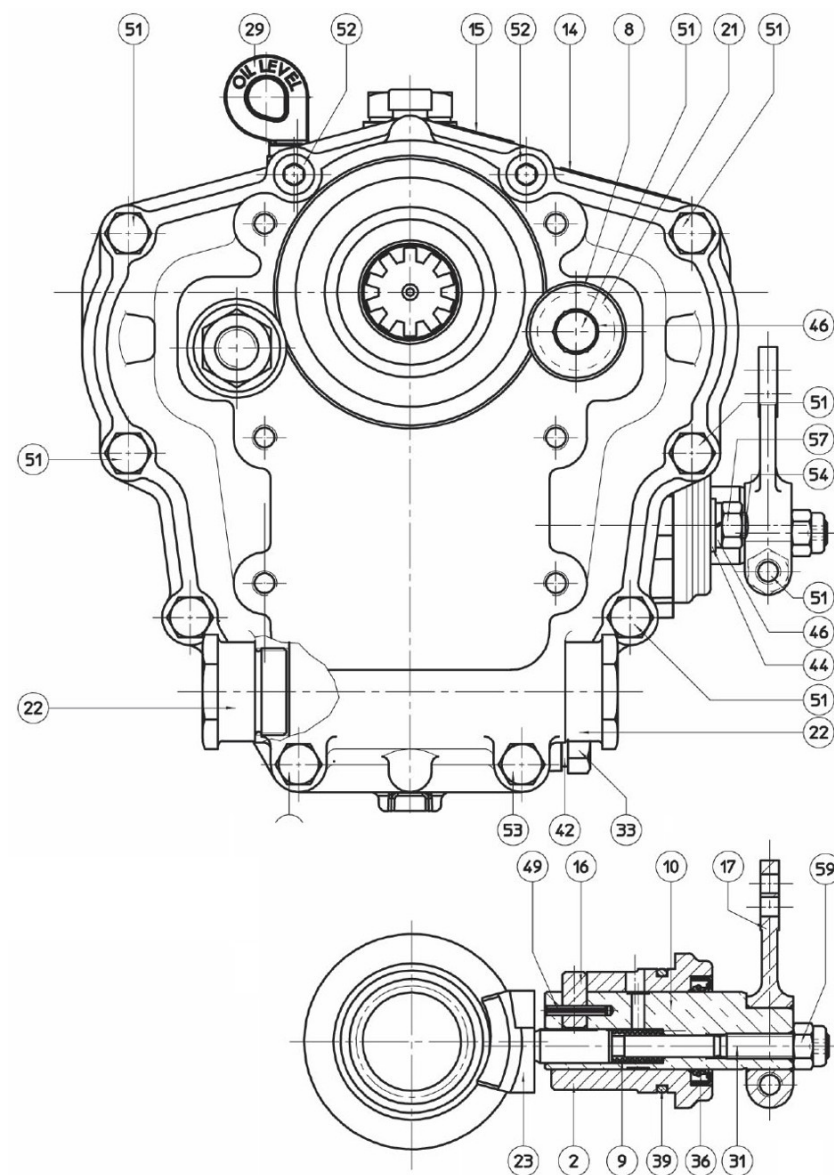


D_5037_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24813401	1	Kit Gasket			
2	A0201000	3	ATF Sole Diesel Oil 1L			
NS	24813500.84	1	Anode SP60 (Saltwater)			
NS	T2050044	1	Aluminum Anode (Fresh Water) SP60			



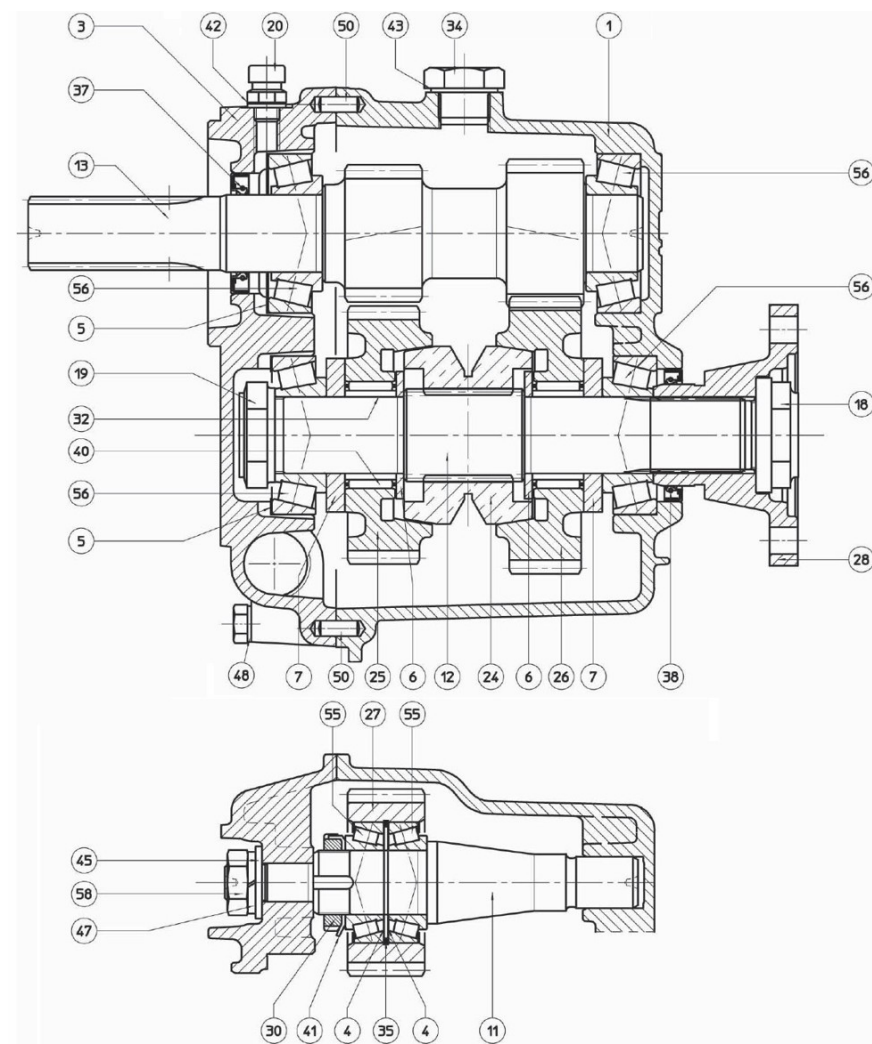
D_5036_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
2	24880401	1	Cover			
8	24880306	1	Washer			
9	24860411	1	Spring			
10	24880402	1	Shaft			
14	24850005	1	Plate, IDENTIFICATION			
15	24860006	1	ATF Oil Plate			
16	24860419	1	Pin			
17	24810424	1	Lever			
21	24880311	1	Plug			
22	24880038	2	Plug			
23	24880423	1	Pad			
29	24860008P	1	Gauge			
31	24880409	1	Screw			
33	24850011	1	Plug,oil drain			
36	24860404	1	Oil Seal			
39	24860417	1	O-Ring			
44	51030008	2	Washer DIN 125-8			
46	53033008	3	Washer GROWER DIN 127-8			
49	53052210	1	Pin DIN 1481 3-20			
51	52102258	8	Bolt DIN 933 M8-25 8.8			
52	52103258	2	Bolt DIN 912 M8-25 8.8			
53	52101263	2	Bolt DIN 931 M8-50 8.8			
54	24860071	2	STUD			
57	52120008	2	Nut DIN 934 M8 8.8			
59	51123008	1	Nut DIN 985 M8 5.6			



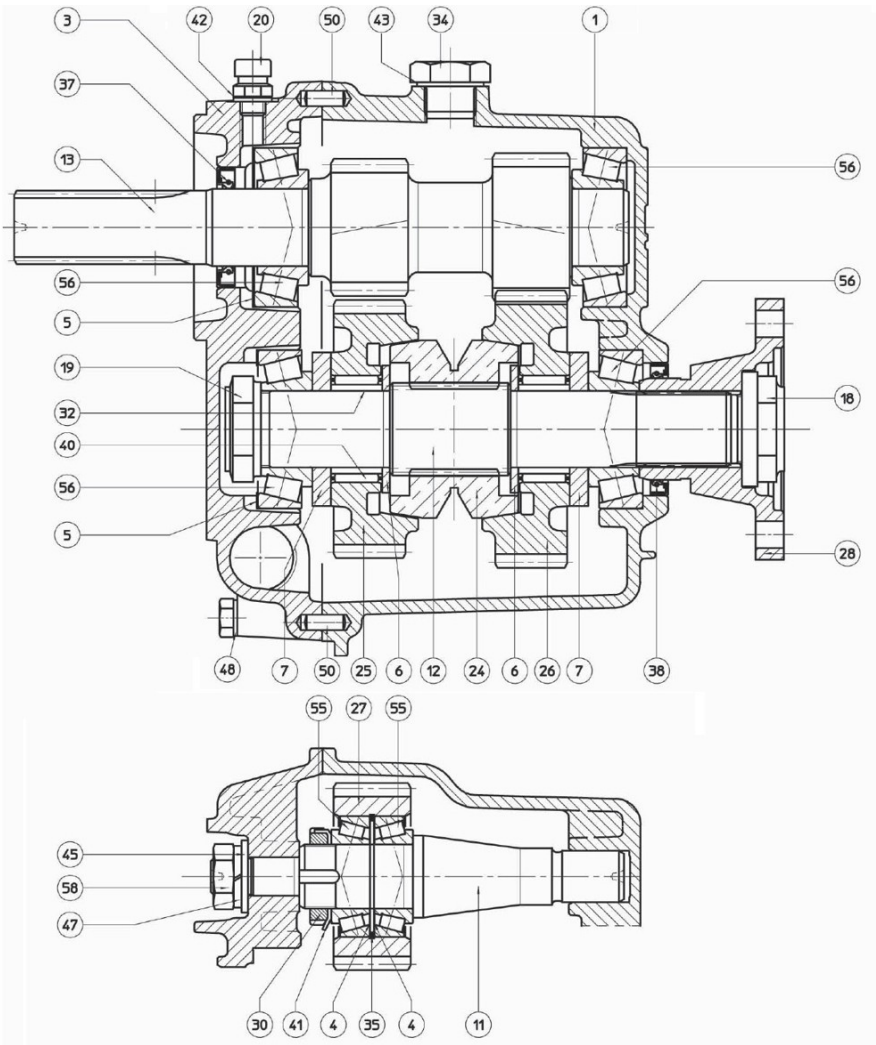
D_5036_2 Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24880002P	1	Box			
3	24880001	1	Cover			
4	24880305	2	Spacer			
5	24813500.67	6	Spacer			
6	24880218	2	Shim			
7	24880217	2	Shim			
11	24880301	1	INTERMEDIATE Shaft			
12	24880201	1	Shaft Output			
13A	24882101P	1	Input Shaft			
13B	24883101P	1	Input Shaft			
13C	24884101	1	Input Shaft			
13D	24885101P	1	Input Shaft			
18	24850099	1	Nut			
19	24880222	1	Nut			
20	24810065	1	Plug			
24	24880202	1	Clutch			
25A	24882203	1	Gear R 1,55 / 2,00			
25B	24884203	1	Gear R 2,45 / 2,83			
26A	24883210	1	Gear R 2,00			
26B	24884210	1	Gear R 2,45			
26C	24885210	1	Gear R 2,83			
27	24880302	1	Gear			
28	24880224	1	Flange Output			
30	24880310	1	Nut			
32	24880205	2	CAGE			
34	24830011	1	Plug			
35	24880309	1	Ring			
37	22210103	1	Seal,oil BA 30-47-7			
38	24890214	1	Oil Seal			
40	24880204	2	Bearing, needle			
41	24880308	1	Washer			



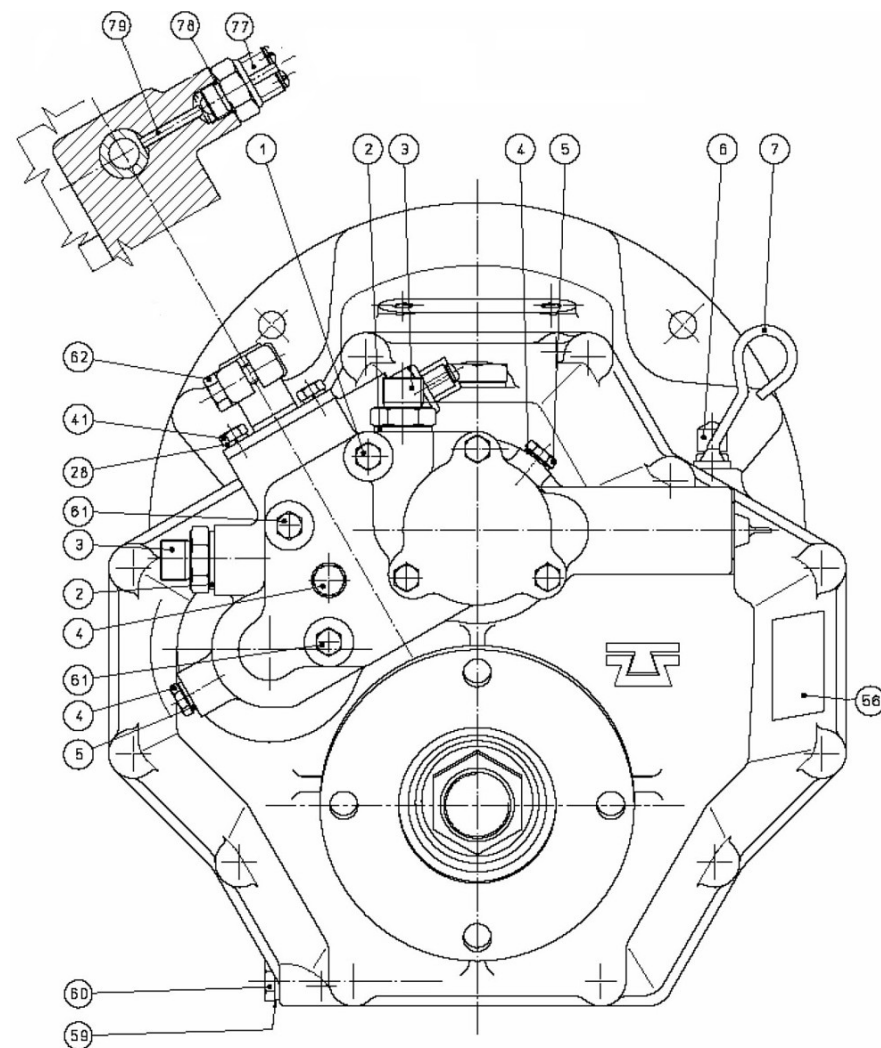
D_5036_2 Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
42	24810063	2	Plane Washer			
43	56000083	1	Washer 21-26-1,5			
45	51030014	1	Washer DIN 125-14			
47	53033014	1	Washer GROWER DIN 127-14			
48	24850093	10	Washer			
50	24860023	2	Pin			
55	24860206	2	Conical Roller Bearing 32005			
56	25710104	4	Conical Roller Bearing 32206-J2/Q			
58	24880307	1	Nut			



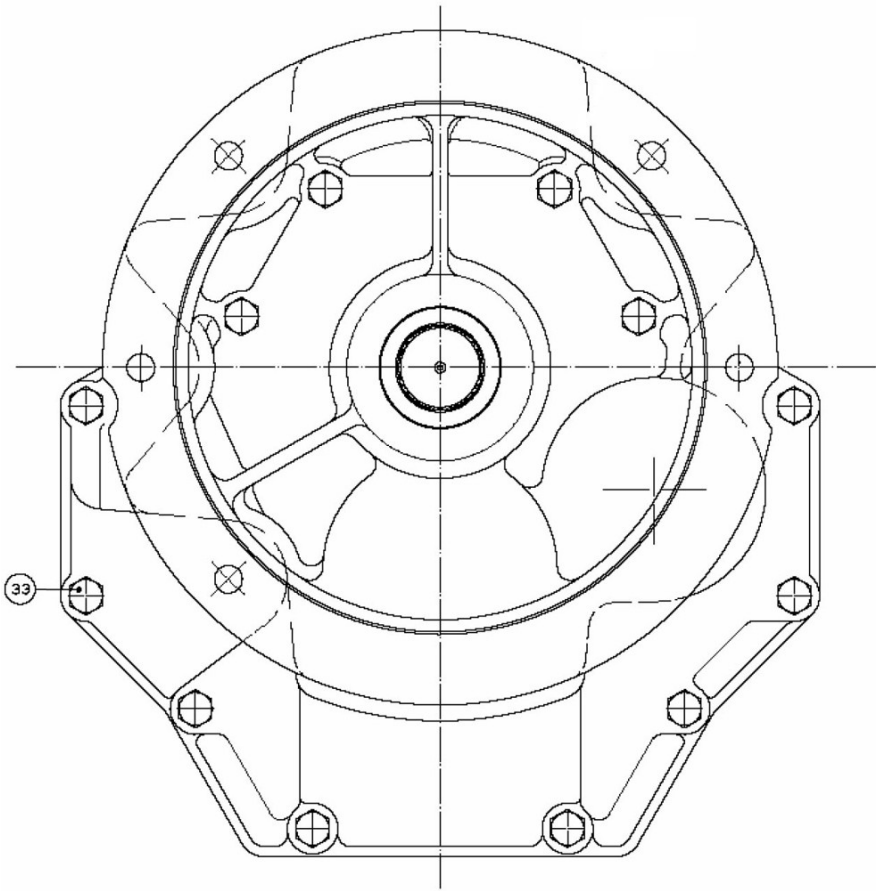
D_5023_1 Sheet 1/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24850091	1	Screw			
2	24850092	3	Washer			
3	24850090	2	Washer			
4	24820068	3	Plug M8X1			
5	56000057	3	Washer 8-13-1,5			
6	24810065	1	Plug			
7	24850008	1	Gauge Oil LEVEL			
26	24850028	11	Screw			
41	52102156	5	Bolt DIN 933 M6-16 8.8			
56	24850005	1	Plate, IDENTIFICATION			
59	24810063	1	Plane Washer			
60	24850011	1	Plug,oil drain			
61	52102158	2	Bolt DIN 933 M6-25 8.8			
62	52102258	1	Bolt DIN 933 M8-25 8.8			
77	24810532	1	SWITCHER			
78	24810533	1	O-Ring D. 14X1,7			
79	24850527	1	Pin			



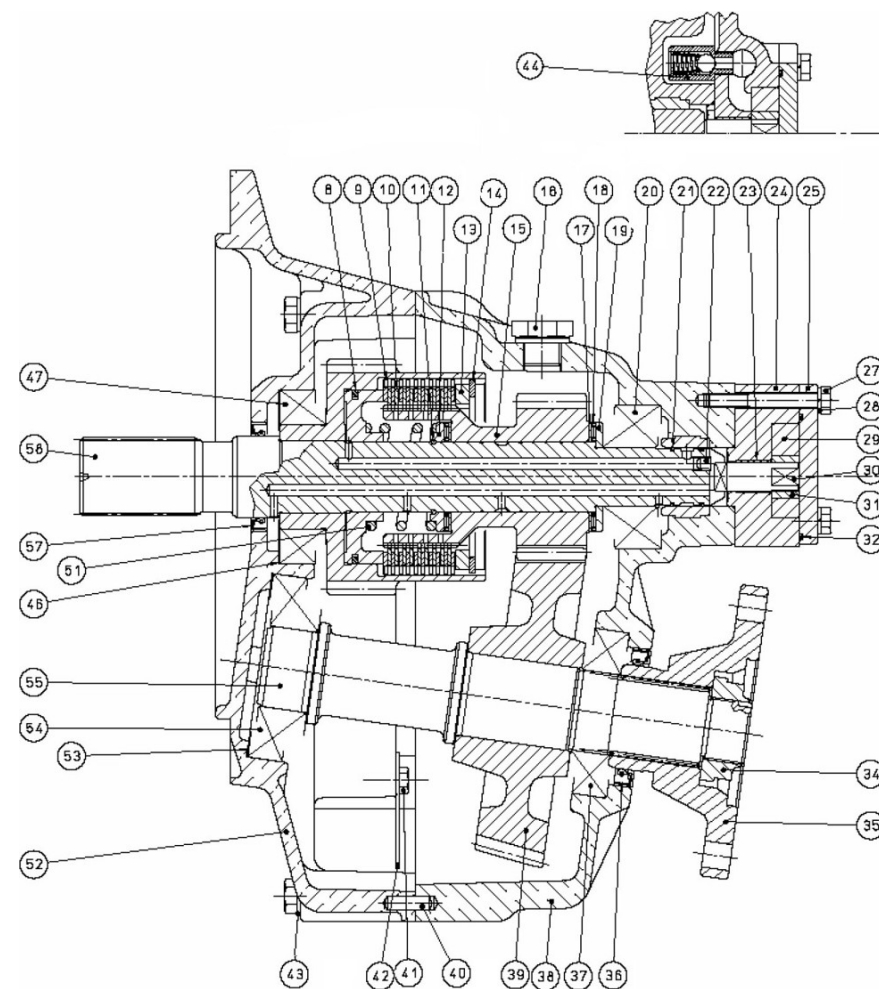
D_5023_2 Sheet 2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
33	24830113	1	Screw			



D_5023_3 Sheet 3/4

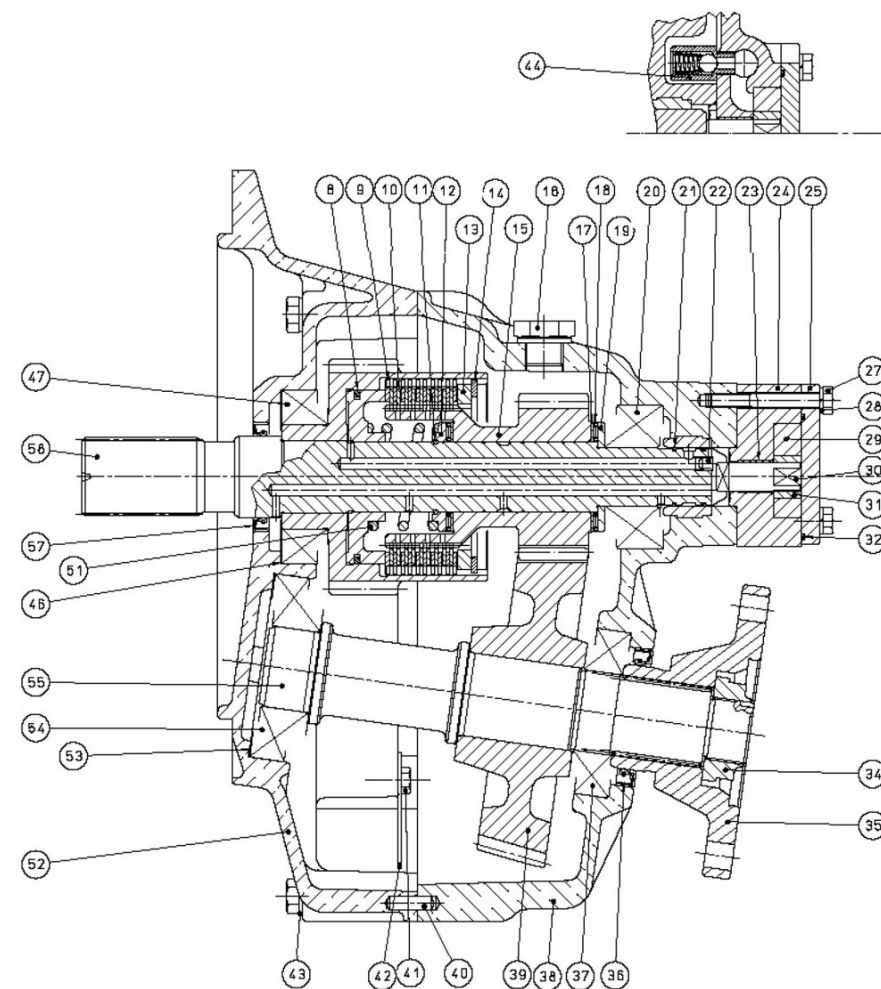
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24850323	2	Washer			
11	24850310	2	Ring			
12	24850307	2	Ring			
13	24850333	2	Spacer			
14	24850312	2	SEGER			
15A	24852203	1	Gear R. 1,54 TM 345			
15B	24853203	1	Gear R. 2 TM 345			
15C	24854203	1	Gear R. 2,47 TM 345			
16	24850012	1	Plug			
17	24850318	4	Ring			
18	24850306	4	Bearing, needle			
19	24850325	2	Washer			
20	24850308	2	Conical Roller Bearing 32305			
21	24850328	4	Washer			
22	24810326	2	Plug			
23	24850016	1	Bushing			
24	24850020	1	PUMB Box			
25	24850015	1	Pump Cover			
27	24850029	3	Screw			
28	53033006	9	Washer GROWER DIN 127-6			
29	24850095	1	Gear, Pump Out			
30	24850094	1	Pump Shaft			
31	24850096	1	Gear, Pump INNER			
32	24850097	1	O-Ring D. 50X1,7			
34	24850099	1	Nut			
35	24850224	1	Flange, Output TM-345			
36	24840103	1	Grommet			
37	24850212	1	Conical Roller Bearing 30207A			
38	24850001	1	Front Body TM-345			
39A	24852210	1	Gear R. 1,54 TM 345			
39B	24853210	1	Gear R. 2 TM 345			



D_5023_3

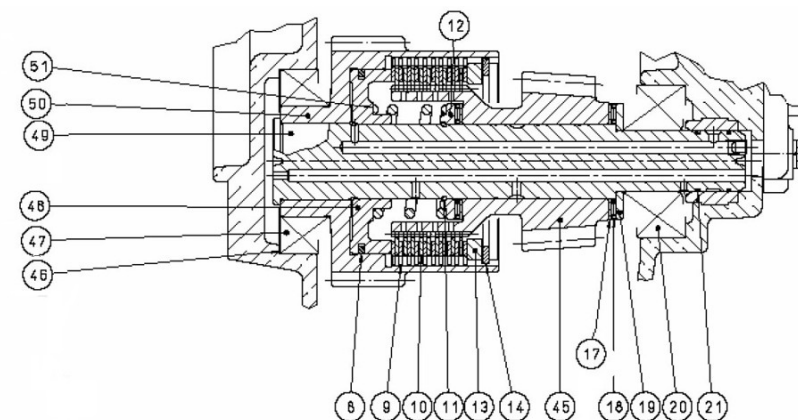
Sheet 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
39C	24854210	1	Gear R. 2,47 TM 345			
40	24850013	2	Pin			
42	24850080	1	Plate Pipe			
43	24850093	12	Washer			
44	24850063	1	By pass Valve			
46	24850108	6	Shim Adjusting			
47	24850104	2	Conical Roller Bearing 32009-X			
51	24850122	2	Spring			
52	24850207	1	Cover TM-345			
53	24810333	3	Spacer			
54	24850206	1	Conical Roller Bearing 31307A			
55	24850201	1	Output Shaft			
57	24810103S	1	Grommet, Oil SILICON			
58	24850101	1	Input Shaft			

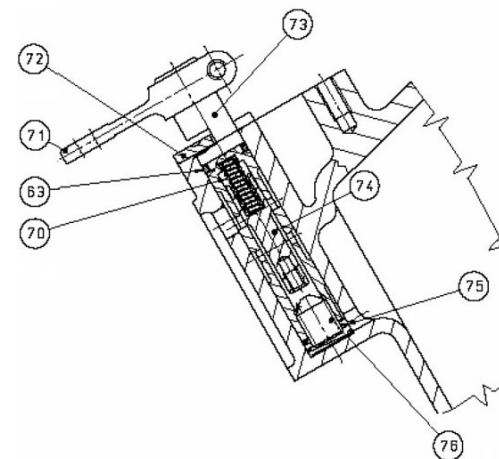


D_5023_4 Sheet 4/4

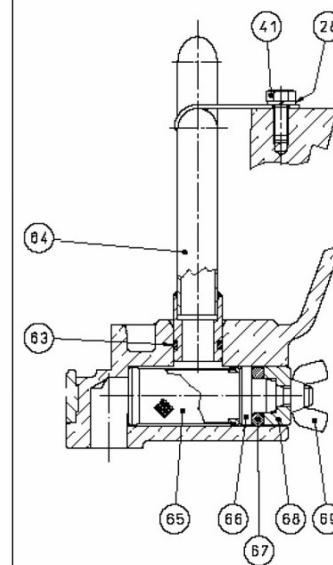
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
45A	24852203	1	Gear R. 1,54 TM 345			
45B	24853203	1	Gear R. 2 TM 345			
45C	24854203	1	Gear R. 2,47 TM 345			
48	24850124	2	Piston			
49	24850301	1	INTERMEDIATE Shaft			
50	24850330	1	Bell			
63	24810045	2	O-Ring D. 15,08X2,62			
64	24850081	1	Aspiration Tube			
65	24810035	1	Oil Filter			
66	24850085	1	Pin			
67	24850059	1	O-Ring D. 50X5,3			
68	24850076	1	Spacer			
69	24850057	1	Nut			
70	24850030	1	Spring			
71	24810424	1	Lever			
72	24810041	1	Support			
73	24850062	1	Selector Valve			
74	24850052	1	Valve			
75	24850078	1	Spring			
76	24850079	1	Screw			



INTERMEDIATE SHAFT ASSEMBLY

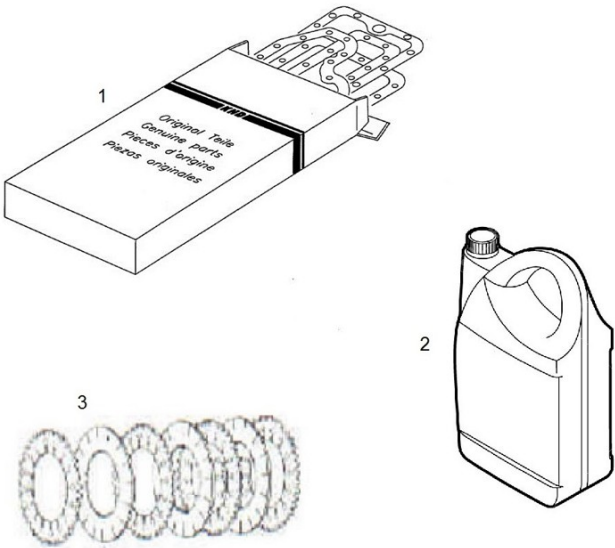


SELECTOR VALVE ASSEMBLY



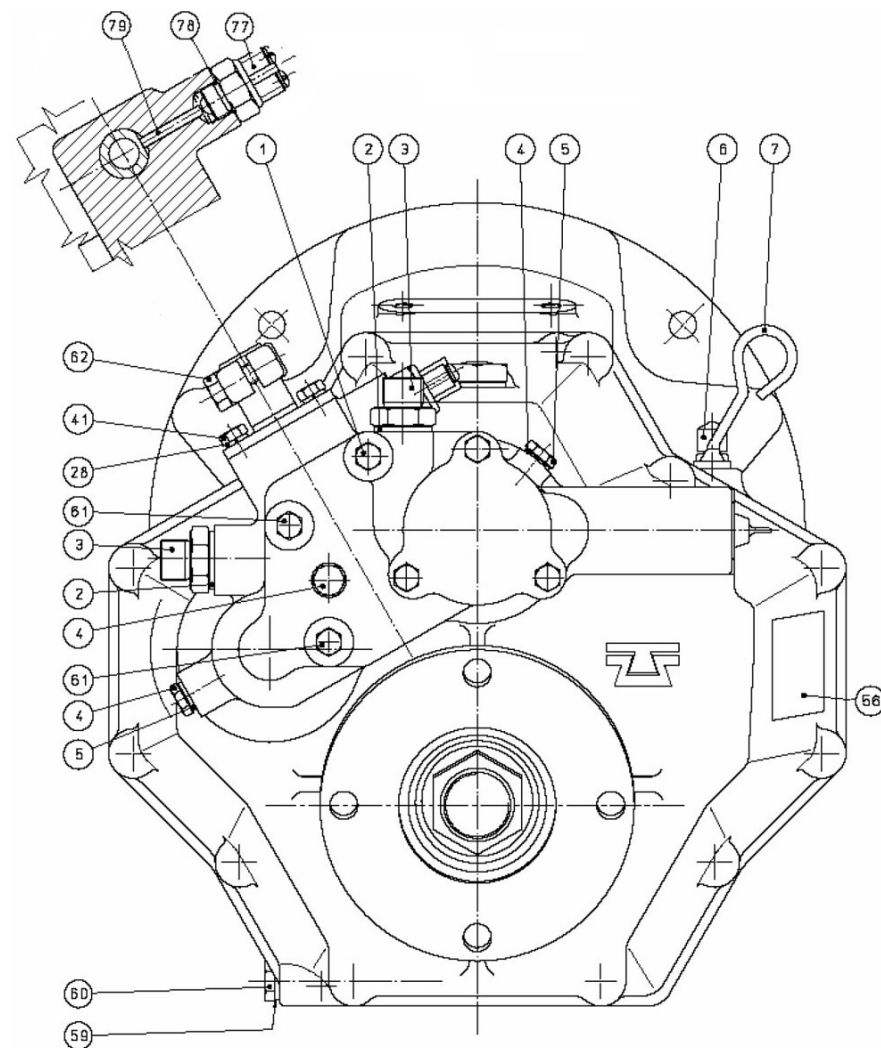
OIL FILTER ASSEMBLY

D_5023_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24850401	1	Kit Gasket			
1	24850401	1	Kit Gasket			
2	A0105000	1	15W40 Sole Diesel Oil 5L			
2	A0105000	1	15W40 Sole Diesel Oil 5L			
3	24850403	2	Clutch Plate Kit			
3	24850403	2	Clutch Plate Kit			



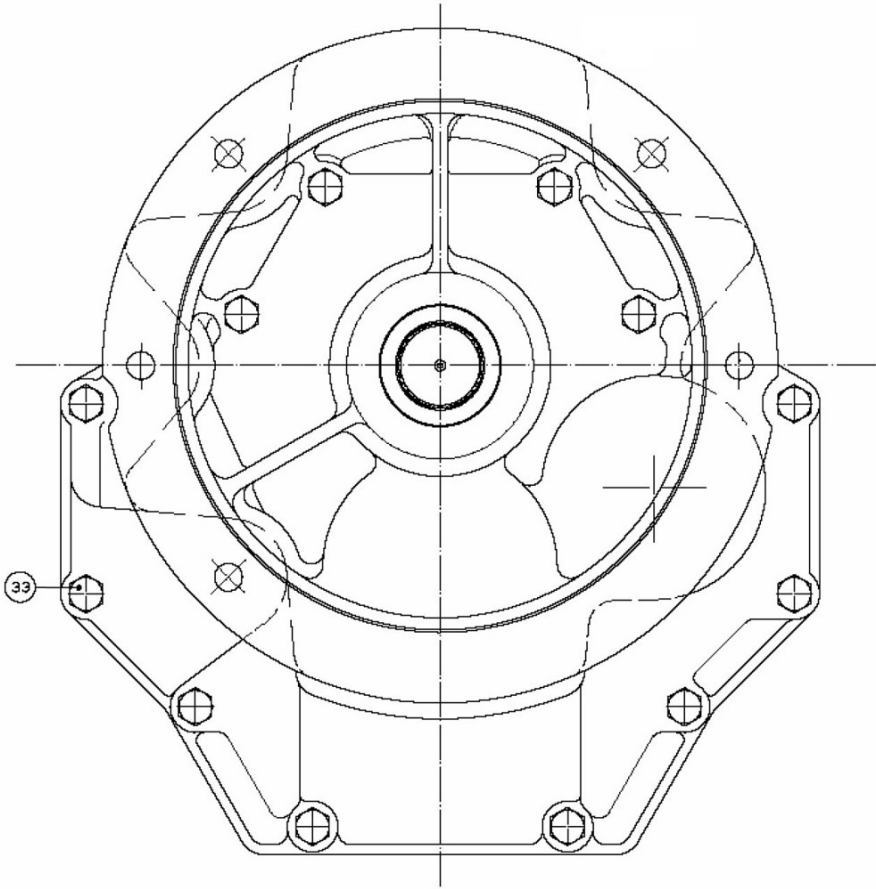
D_5024_1 Sheet 1/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24850091	1	Screw			
2	24850092	3	Washer			
3	24850090	2	Washer			
4	24820068	3	Plug M8X1			
5	56000057	3	Washer 8-13-1,5			
6	24810065	1	Plug			
7	24850008	1	Gauge Oil LEVEL			
26	24850028	11	Screw			
41	52102156	3	Bolt DIN 933 M6-16 8.8			
56	24850005	1	Plate, IDENTIFICATION			
59	24810063	1	Plane Washer			
60	24850011	1	Plug,oil drain			
61	52102158	2	Bolt DIN 933 M6-25 8.8			
62	52102258	2	Bolt DIN 933 M8-25 8.8			
77	24810532	1	SWITCHER			
78	24810533	1	O-Ring D. 14X1,7			
79	24850527	1	Pin			



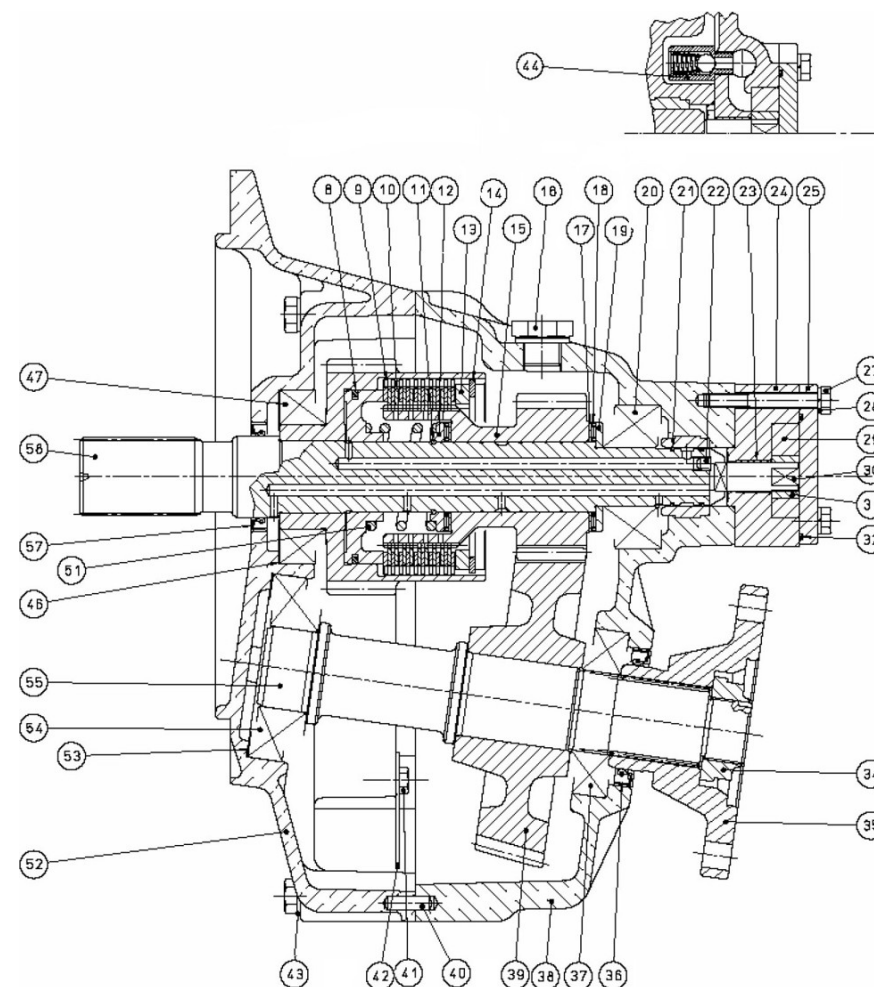
D_5024_2 Sheet 2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
33	24830113	1	Screw			



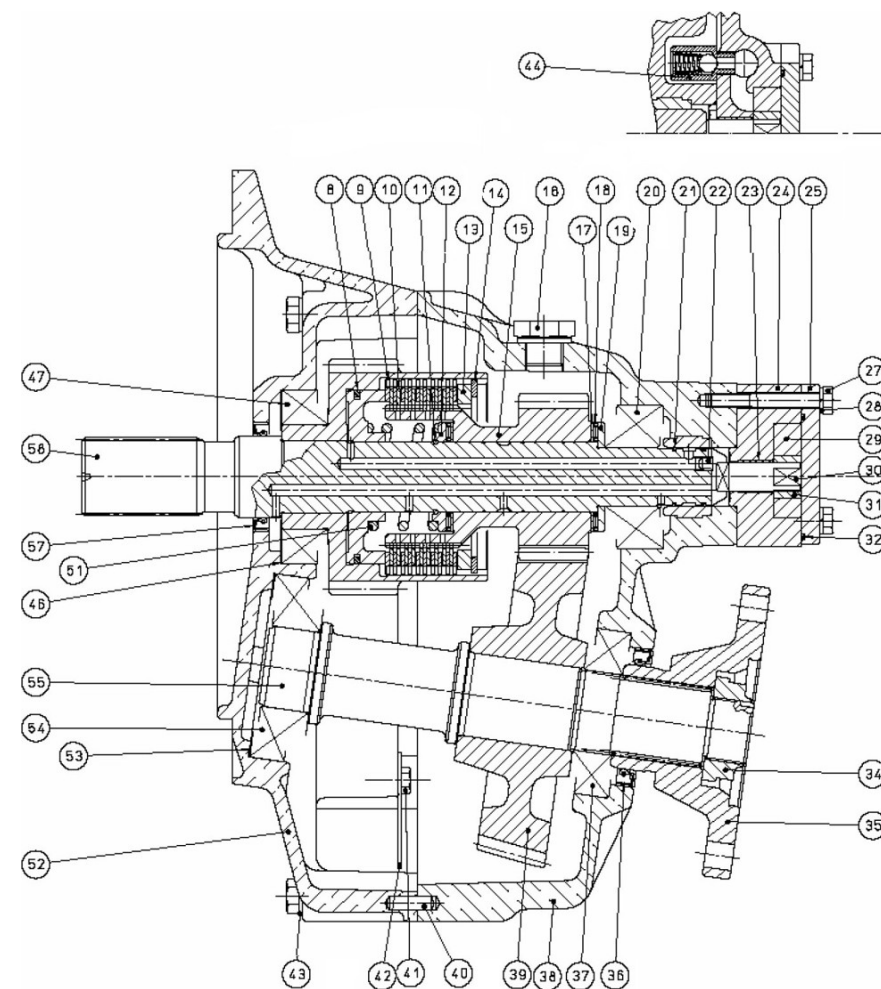
D_5024_3 Sheet 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24850323	2	Washer			
11	24850310	2	Ring			
12	24850307	2	Ring			
13	24850333	2	Spacer			
14	24850312	2	SEGER			
15A	24852203A	1	Gear R. 1,54 TM 345A			
15B	24853203A	1	Gear Red. 2 TM 345A			
15C	24854203A	1	Gear R. 2,47 TM 345A			
16	24850012	1	Plug			
17	24850318	4	Ring			
18	24850306	4	Bearing, needle			
19	24850325	2	Washer			
20	24850308	2	Conical Roller Bearing 32305			
21	24850328	4	Washer			
22	24810326	2	Plug			
23	24850016	1	Bushing			
24	24850020	1	PUMB Box			
25	24850015	1	Pump Cover			
27	24850029	3	Screw			
28	53033006	9	Washer GROWER DIN 127-6			
29	24850095	1	Gear, Pump Out			
30	24850094	1	Pump Shaft			
31	24850096	1	Gear, Pump INNER			
32	24850097	1	O-Ring D. 50X1,7			
34	24850099	1	Nut			
35	24850224A	1	Flange, Output TM-345A			
36	24840103	1	Grommet			
37	24850212	1	Conical Roller Bearing 30207A			
38	24850001A	1	Front Body TM-345A			
39A	24852210A	1	Gear R. 1,54 TM 345A			
39B	24853210A	1	Gear R. 2 TM 345A			



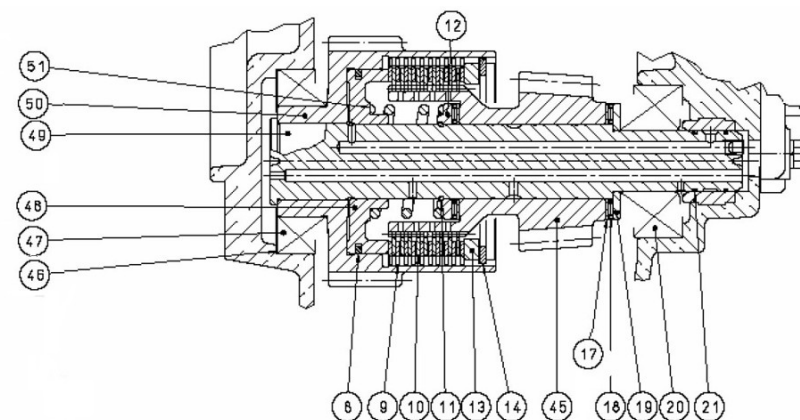
D_5024_3 Sheet 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
39C	24854210A	1	Gear R. 2,47 TM 345A			
40	24850013	2	Pin			
42	24850080	1	Plate Pipe			
43	24850093	12	Washer			
44	24850063	1	By pass Valve			
46	24850108	6	Shim Adjusting			
47	24850104	2	Conical Roller Bearing 32009-X			
51	24850122	2	Spring			
52	24850207A	1	Cover TM-345A			
53	24810333	3	Spacer			
54	24850206	1	Conical Roller Bearing 31307A			
55	24850201	1	Output Shaft			
57	24810103S	1	Grommet, Oil SILICON			
58	24850101	1	Input Shaft			

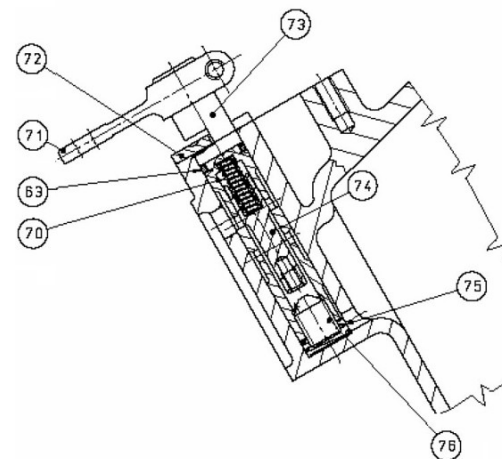


D_5024_4 Sheet 4/4

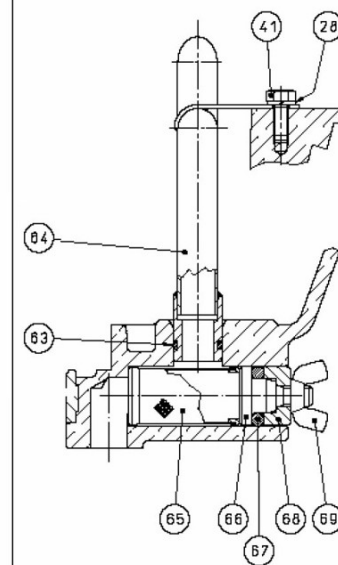
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
45A	24852302	1	Gear R. 1,54 TM 345A			
45B	24853302	1	Gear R. 2 TM 345A			
45C	24854302	1	Gear R. 2,47 TM 345A			
48	24850124	2	Piston			
49	24850301	1	INTERMEDIATE Shaft			
50	24850330	1	Bell			
63	24810045	2	O-Ring D. 15,08X2,62			
64	24850081	1	Aspiration Tube			
65	24810035	1	Oil Filter			
66	24850085	1	Pin			
67	24850059	1	O-Ring D. 50X5,3			16/12/2019
68	24850076	1	Spacer			
69	24850057	1	Nut			
70	24850030	1	Spring			
71	24810424	1	Lever			
72	24810041	1	Support			
73	24850062	1	Selector Valve			
74	24850052	1	Valve			
75	24850078	1	Spring			
76	24850079	1	Screw			



INTERMEDIATE SHAFT ASSEMBLY

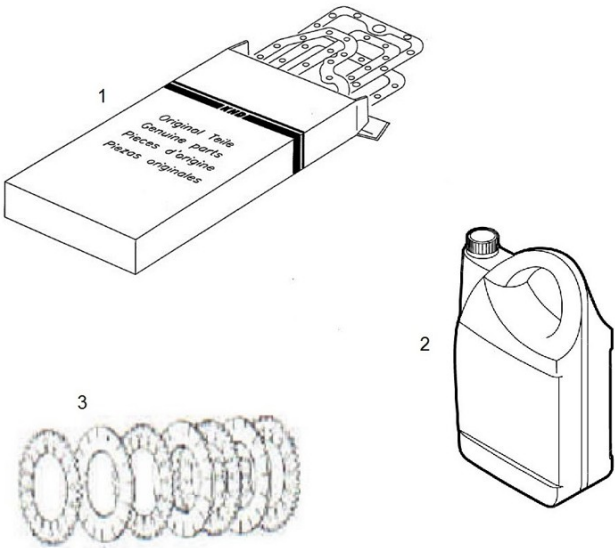


SELECTOR VALVE ASSEMBLY



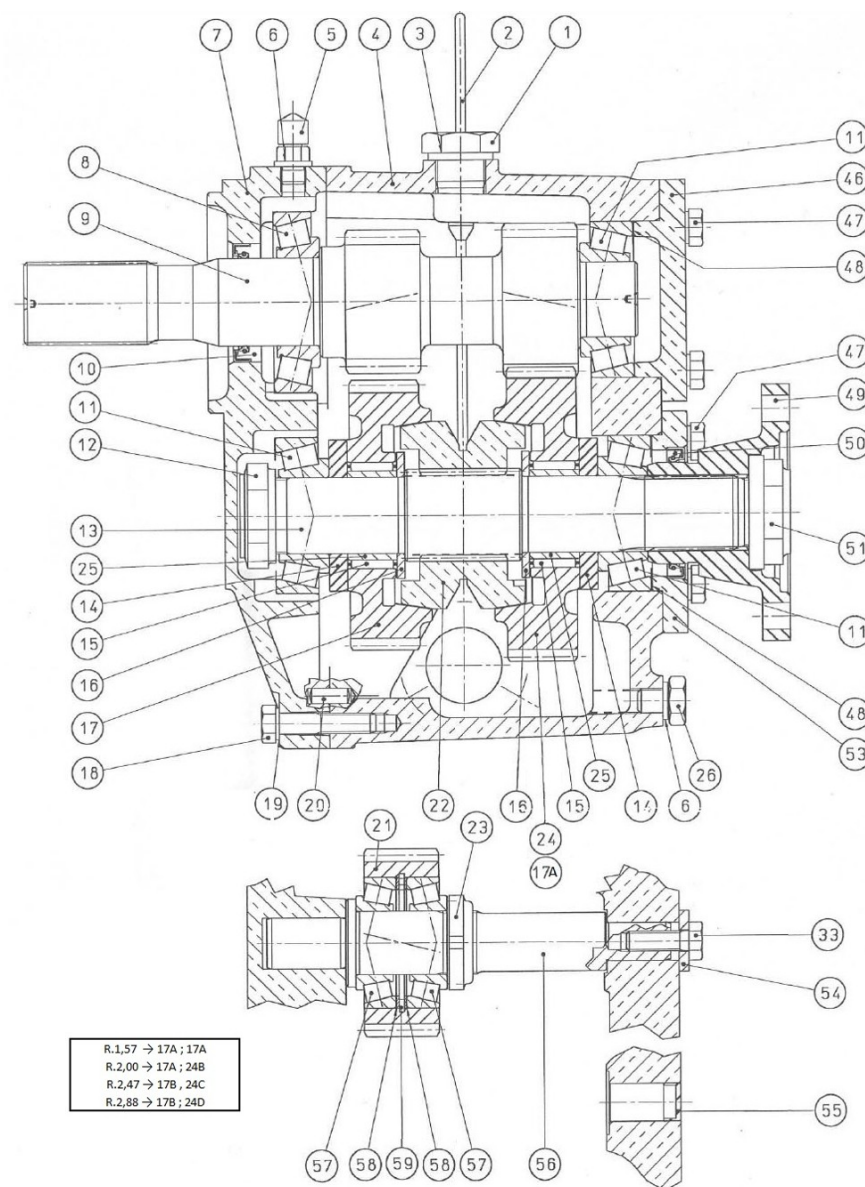
OIL FILTER ASSEMBLY

D_5023_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24850401	1	Kit Gasket			
1	24850401	1	Kit Gasket			
2	A0105000	1	15W40 Sole Diesel Oil 5L			
2	A0105000	1	15W40 Sole Diesel Oil 5L			
3	24850403	2	Clutch Plate Kit			
3	24850403	2	Clutch Plate Kit			



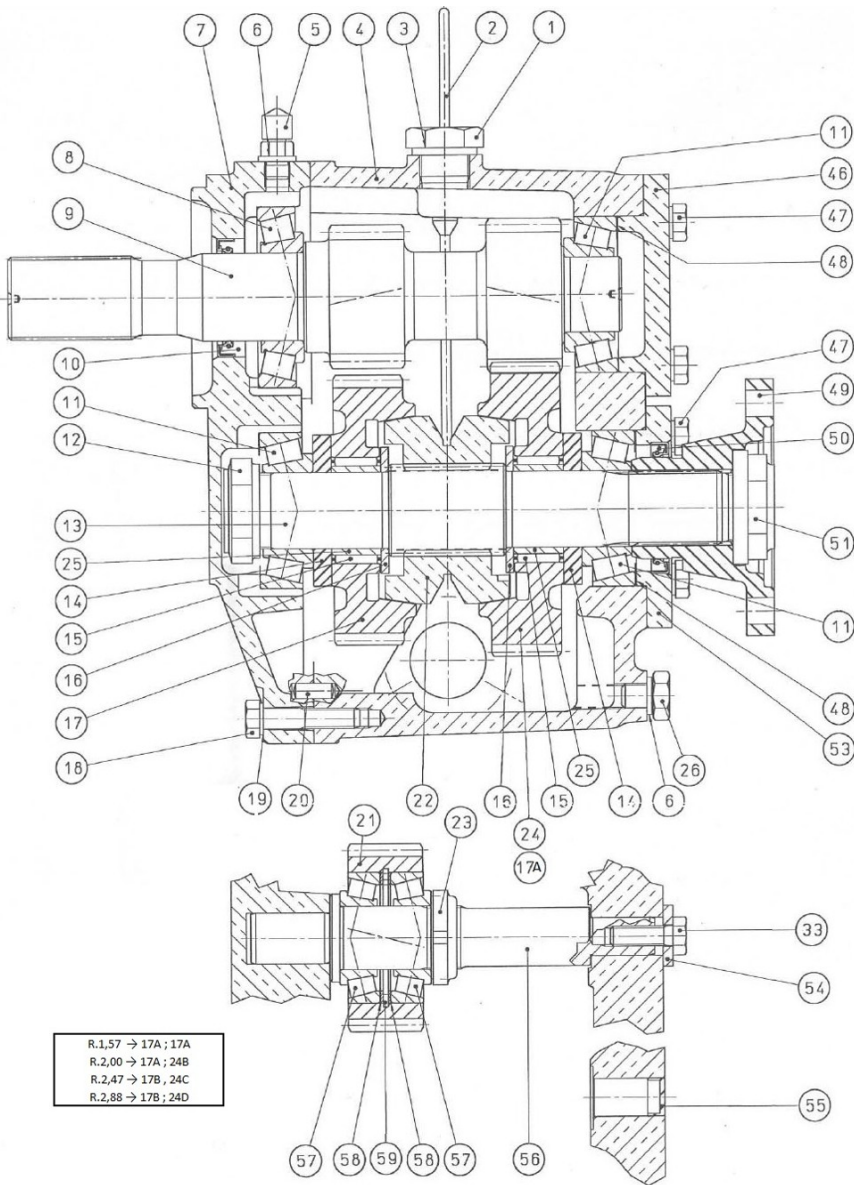
D_5032_1 Sheet 1/3

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24830011	1	Plug			
2	24890008	1	Gauge Oil Level			
3	56000083	1	Washer 21-26-1,5			
4	24890001	1	Cover			
5	24810065	1	Plug			
6	24810063	2	Plane Washer			
7	24890102	1	Cover			
8	24850212	1	Conical Roller Bearing 30207A			
9A	24895101	1	Input Shaft			
9B	24894101	1	Input Shaft			
9C	24893101	1	Input Shaft			
9D	24892101	1	Input Shaft			
10	24810103	1	Oil Grommet			
11	25710104	3	Conical Roller Bearing 32206-J2/Q			
12	24880222	1	Nut			
13	24880201	1	Shaft Output			
14	24880217	2	Shim			
15	24880204	2	Bearing, needle			
16	24880218	2	Shim			
17A	24894203	1	Gear			
17B	24892203	1	Gear			
18	52101261	9	Bolt DIN 931 M8-40 8.8			
19	24850093	17	Washer			
20	24860023	2	Pin			
21	24890302	1	Gear			
22	24890202	1	Clutch			
23	24890307	1	Nut			
24B	24895210	1	Gear			
24C	24894210	1	Gear			
24D	24893210	1	Gear			
25	24880205	2	CAGE			



D_5032_1		Sheet 1/3			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo

26	24850011	1	Plug,oil drain		
33	52102258	1	Bolt DIN 933 M8-25 8.8		
46	24890205	1	Cover		
47	52102259	8	Bolt DIN 933 M8-30 8.8		
48	24813500.67	6	Spacer		
49	24880224	1	Flange Output		22/11/2019
50	24890214	1	Oil Seal		
51	24850099	1	Nut		
53	24890208	1	Cover		
54	24890306	1	Washer		
55	24890305	1	Plug		
56	24890301	1	INTERMEDIATE Shaft		
57	24860207	2	Conical Roller Bearing 30205A		
58	24890304	2	Washer		
59	53041052	1	CIRClip DIN 472 I-52		

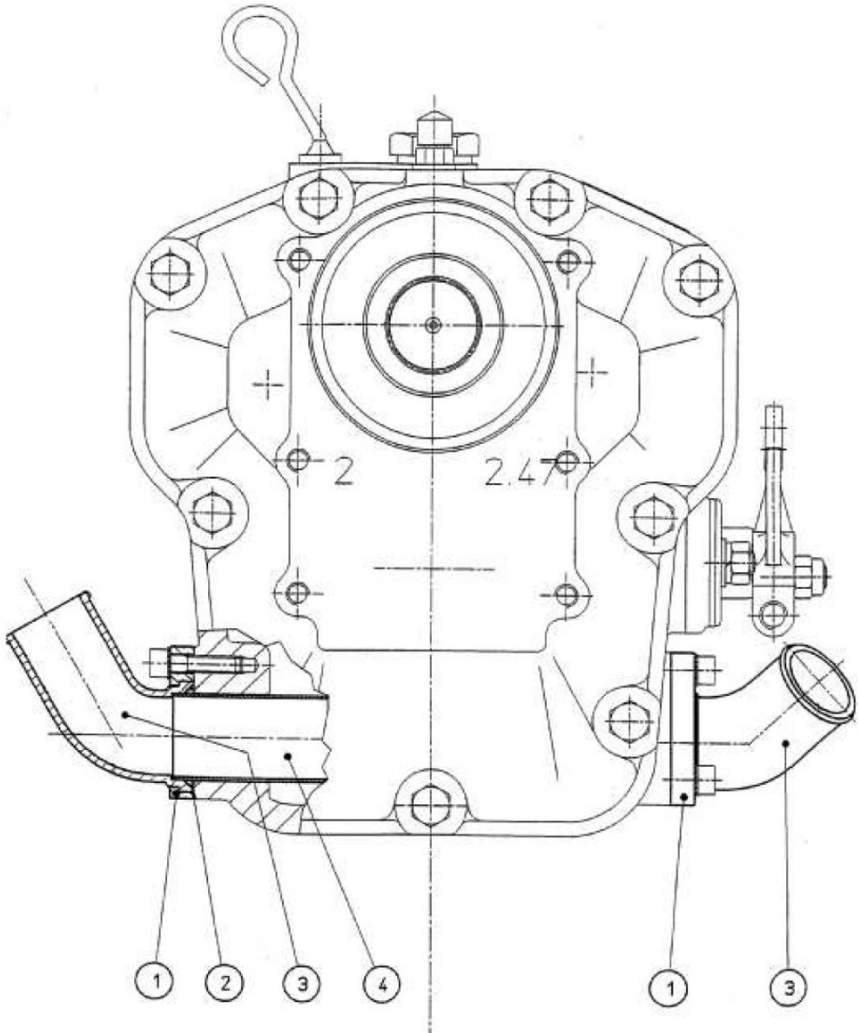


This technical drawing illustrates a mechanical assembly, possibly a pump or engine component, shown in a cross-sectional view. The main body is a cast or machined housing with a central circular opening. A hook is attached to the top for lifting. The drawing includes numerous numbered callouts for identification:

- 2**: Points to a bolt on the left side of the housing.
- 2.47**: A dimension line indicating a specific length or distance.
- 27**: Points to a bolt at the bottom left.
- 28**: Points to a bolt at the bottom center.
- 29**: Points to a bolt at the bottom right.
- 30-44**: A series of callouts on the right side, pointing to various internal components, bolts, and features of a complex assembly.
- 45**: Points to the top of the housing.
- 52**: Points to a bolt on the left side, near the bottom.

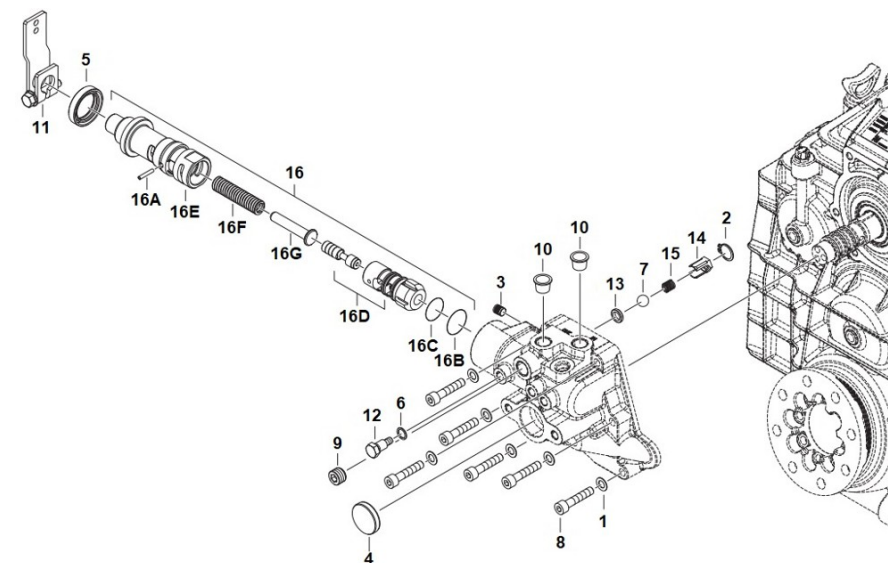
D_5032_3 Cooling System 3/3

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24890051	2	Cover			
2	24890052	2	O-Ring D. 32X2,5			
3	24890053	2	Elbow			
4	24890054	1	Cooler Pipe			



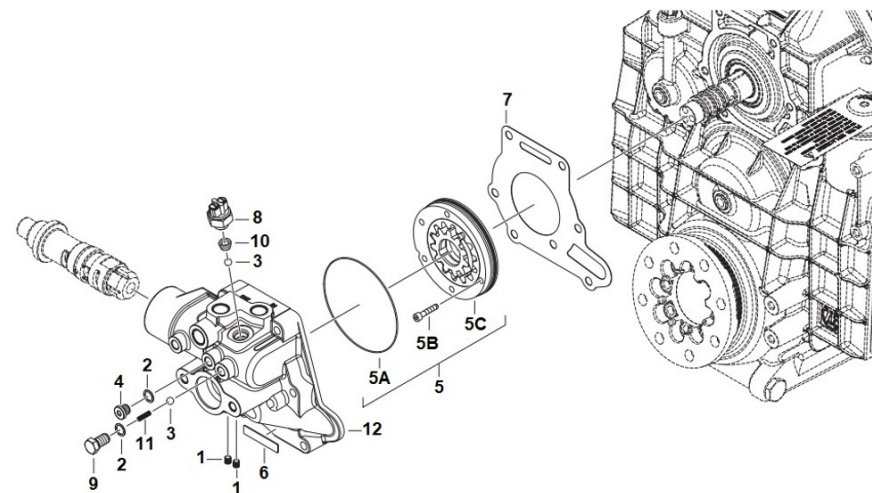
D_ZF68_1 Sheet 1/5

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	Z0630100251	7	Spring Washer			
2	Z0630502005	1	Circlip			
3	Z0631405003	1	Plug			
4	Z0631405061	1	Plug			
5	Z0634309621	1	Shaft Seal			
6	Z0634801152	3	Sealing Ring			
7	Z0635460023	1	Ball			
8	Z0636115291	6	Cap Screw			
9	Z0636309007	1	Drain Plug			
10	Z0637510251	2	Plug			
11	Z3312208032	1	Lever			
12	Z3312308195	1	Locking Screw			
13	Z3312308036	1	Spacer			
14	Z3312308038	1	Bush			
15	Z3312308042	1	Compression Spring			
16	Z3312108021	1	Control Unit			
16A	Z0631313002	1	Cylindrical Pin			
16B	Z0634303233	1	O-Ring			
16C	Z0634304539	1	O-Ring			
16D	Z3312208009	1	Valve Part			
16E	Z3312308033	1	Valve Body			
16F	Z3312308040	1	Compression Spring			
16G	Z3312308043	1	Guide Pin			



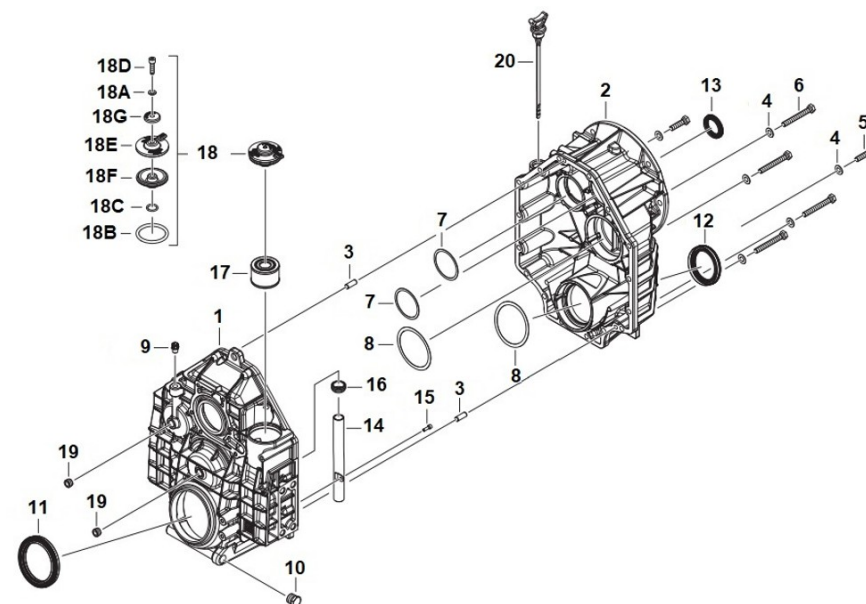
D_ZF68_2 Sheet 2/5

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	Z0631100217	2	Plug			
2	Z0634801152	3	Sealing Ring			
3	Z0635460014	2	Ball			
4	Z0636100793	1	Screw Plug			
5	Z3312106002	1	Pump Drive			
5A	Z0634303373	1	O-Ring			
5B	Z0636102006	5	Cap Screw			
5C	Z3312206101	1	Gear Pump			
6	Z3312308202	1	Plate			
7	Z3312308020	1	Gasket			
8	Z3312308029	1	Cut-Out Switch			
9	Z3312308037	1	Threaded Bush			
10	Z3312308039	1	Beilegring			
11	Z3312308047	1	Compression Spring			
12	Z3312308188	1	Distributor Piece			



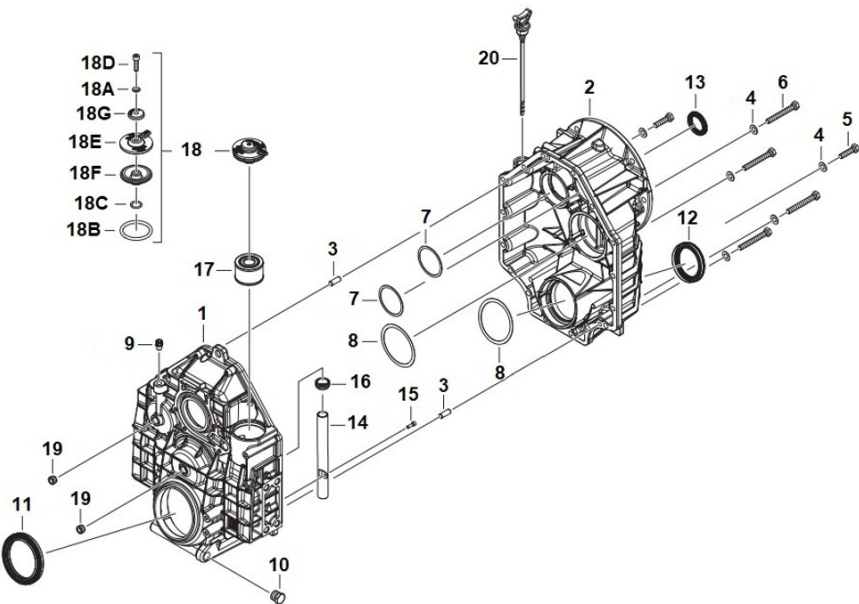
D_ZF68_3 Sheet 3/5

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	Z3312301100	1	Housing			
2	Z3312201004	1	Housing Cover			
3	Z0631315520	2	Cylindrical Pin			
4	Z0630100241	16	Spring Washer			
5	Z0636015683	12	Hexagon Screw			
6	Z0636100347	4	Hexagon Screw			
7A	Z3312302023	0	Shim 62.2X71.7X0.1	#		
7B	Z3312302024	0	Shim 62.2X71.7X0.15	#		
7C	Z3312302025	0	Shim 62.2X71.7X0.2	#		
7D	Z3312302026	0	Shim 62.2X71.7X0.5	#		
8A	Z3312304022	0	Shim 0.1	#		
8B	Z3312304023	0	Shim 0.15	#		
8C	Z3312304024	0	Shim 0.3	#		
8D	Z3207303013	0	Shim H=0.50	#		
9	Z0501396898	1	Breather			
10	Z3312301017	1	Drain Plug			
11	Z0501399222	1	Shaft Seal			
12	Z0501399223	1	Shaft Seal			
13	Z0501399224	1	Shaft Seal			
14	Z3312301034	1	Tube			
15	Z0636101439	1	Cap Screw			
16	Z3312301008	1	Profiled Seal Ring			
17	Z3312301007	1	Oil Filter			
18	Z3312101003	1	Cover			
18A	Z0630100295	1	Washer			
18B	Z0634304688	1	O-Ring			
18C	Z0634306204	1	O-Ring			
18D	Z0636100790	1	Cap Screw			
18E	Z3312301009	1	Filter Cover			
18F	Z3312301010	1	Filter Cover			
18G	Z3312301014	1	Filter Cover			



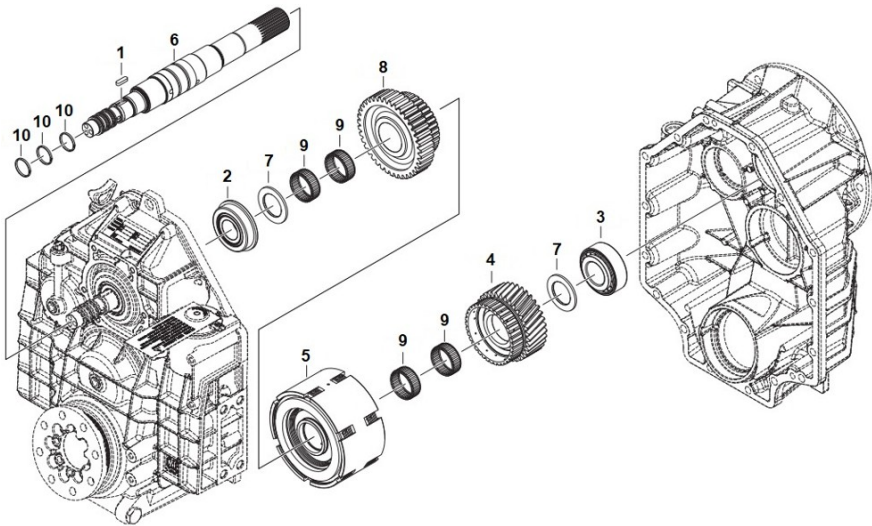
D_ZF68_3 Sheet 3/5

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
19	Z0636100473	1	Screw Plug			
20	Z3312201003	1	Oil Dipstick			



D_ZF68_4 Sheet 4/5

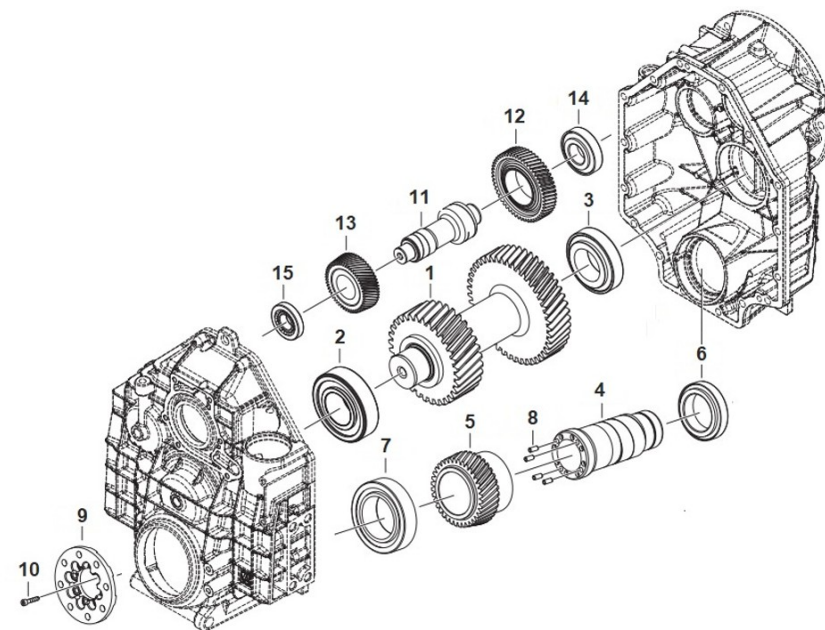
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	Z0631501062	1	Fitted Key			
2	Z0635501937	1	Ta.Roller Bearing			
3	Z0635501940	1	Ta.Roller Bearing			
4	Z3312302103	1	Gear			
5	Z3312202102	1	Clutch Cylinder			
6	Z3312302001	1	Input Shaft			
7	Z3312302004	2	Thrust Washer			
8	Z3312302104	1	Gear			
9	Z3312302040	4	Needle Cage			
10	Z3312302042	3	Sealing Ring			



D_ZF68_5

Sheet 5/5

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1A	Z3312303105	1	Intermediate Shaft Z/Z=45/32 R:1.56			
1B	Z3312303107	1	Intermediate Shaft Z=36 R:1.29			
1BC	Z3312303106	1	Gear Z=45 R:1.29 / 1.99 / 2.48			
1C	Z3312303109	1	Intermediate Shaft Z=27 R:1.99 / 2.48			
2	Z0635501941	1	Ta.Roller Bearing			
3	Z0735302485	1	Tapered Roller Bearing			
4	Z3312304014	1	Quill Shaft			
5A	Z3312304101	1	Gear Z=34 R:1.29 / 1.56 / 1.99			
5B	Z3312304100	1	Gear Z=41 R:2.48			
6	Z0635370020	1	Ta.Roller Bearing			
7	Z0635376005	1	Ta.Roller Bearing			
8	Z0631313008	4	Cylindrical Pin			
9	Z3312304105	1	Output Flange			
10	Z0636102823	8	Cap Screw			
11	Z3312303016	1	Interm.Shaft			
12A	Z3312303103	1	Gear Z=53 R:1.56			
12B	Z3312303101	1	Gear Z=49 R:1.29			
12C	Z3312303102	1	Gear Z=58 R:1.99 / 2.48			
13A	Z3312303110	1	Gear Z=33 R:1.29 / 1.56 / 1.99			
13C	Z3312303100	1	Gear Z=32 R:2.48			
14	Z0635100087	1	Ta.Roller Bearing			
15	Z0635376012	1	Tapered Roller Bearing			

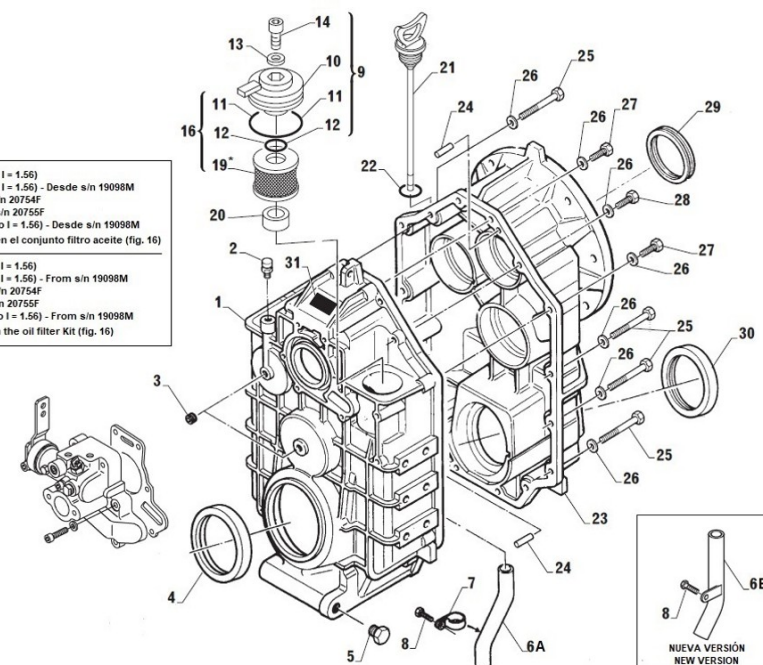


D_50Z3_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24640001	1	Housing			
2A	24640002	1	Breather valve			
2B	24642001	1	Hunger breather valve			
3	24610036	2	Plug			
4A	24640004	1	Output shaft seal			
4B	24642002	1	Output shaft seal			
5	24640005	1	Plug			
6A	24640006	1	Suction pipe			
6B	24640007	1	Suction pipe with support			
7	24640008	1	Retainer support			
8	24640009	1	Hex head screw			
9	24640010	1	Filter cover, assy.			
11	24640011	1	O-Ring			
12	24640012	1	O-Ring			
13	24610413	1	Washer			
14	24640014	1	Screw M8x30			
16	24613352	1	Filter Assy,oil			
19	24640018	1	Oilfilter			
20	24640019	1	Gasket			
21A	24640020	1	Oildipstick			
21B	24640021	1	Oildipstick + OR			
22	24640022	1	O-Ring			
23	24640023	1	Cover (housing)			
24	24640024	2	Locator pin			
25	24640025	4	Hex head screw			
26	24640026	16	Washer			
27	24640027	11	Hex head screw			
28	24640028	1	Hex head screw			
29	24640029	1	Input shaft seal			
30A	24640030	1	Output shaft seal			
30B	24642003	1	Output shaft seal			

FIG. 2B (solo ratio I = 1.56)
 FIG. 4B (solo ratio I = 1.56) - Desde s/n 19098M
 FIG. 21A - Hasta s/n 20754F
 FIG. 21B - Desde s/n 20755F
 FIG. 30B (solo ratio I = 1.56) - Desde s/n 19098M
 * Solo se vende en el conjunto filtro aceite (fig. 16)

FIG. 2B (only ratio I = 1.56)
 FIG. 4B (only ratio I = 1.56) - From s/n 19098M
 FIG. 21A - Up To s/n 20754F
 FIG. 21B - From s/n 20755F
 FIG. 30B (only ratio I = 1.56) - From s/n 19098M
 * Supplied only in the oil filter kit (fig. 16)

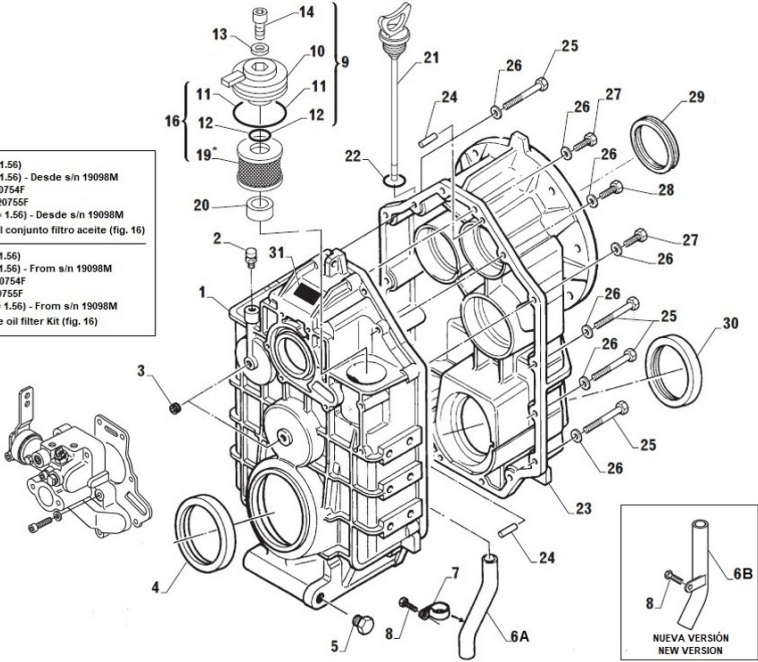


D_50Z3_1		Sheet 1/2				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo

31	24640031	1	Name plate			
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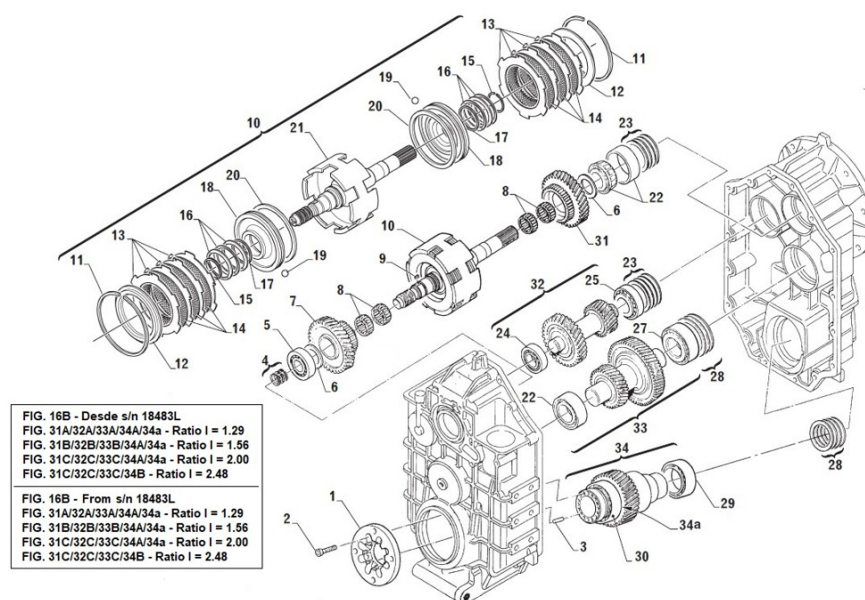
FIG. 2B (solo ratio I = 1.56)
FIG. 4B (solo ratio I = 1.56) - Desde s/n 19098M
FIG. 21A - Hasta s/n 20754F
FIG. 21B - Desde s/n 20755F
FIG. 30B (solo ratio I = 1.56) - Desde s/n 19098M
* Solo se vende en el conjunto filtro aceite (fig. 16)

FIG. 2B (only ratio I = 1.56)
FIG. 4B (only ratio I = 1.56) - From s/n 19098M
FIG. 21A - Up To s/n 20754F
FIG. 21B - From s/n 20755F
FIG. 30B (only ratio I = 1.56) - From s/n 19098M
* Supplied only in the oil filter Kit (fig. 16)



D_50Z3_2 Sheet 2/2

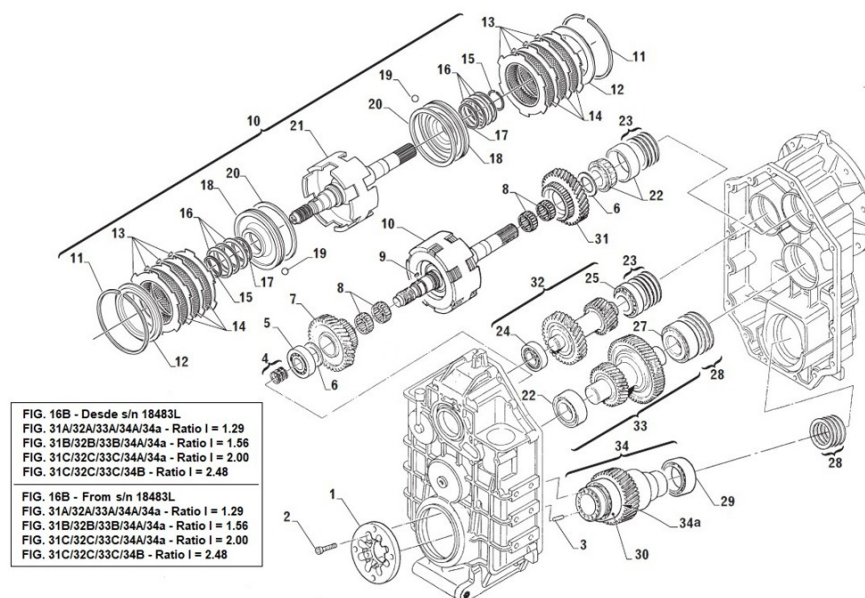
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24640034	1	Flange			
2	24640035	8	Screw			
3	24640201	4	Locator pin			
4	24640101	3	Piston ring			
5	24640102	1	Tapered roller bearing			
6	24640103	2	Butting ring			
7	24640104	1	Reverse gear Z3=49			
8	24640105	4	Needle bearing			
9	24640106	1	Key			
10	24640107	1	Input shaft, assy.			
11	24640108	2	Snap ring			
12	24640109	2	End disc			
13	24640110	10	Outer clutch disc			
14	24640111	8	Inner clutch disc			
15	24640112	2	Retainer ring			
16A	24640113	6	Cup spring			
16B	24640114	6	Cup spring			
17	24640115	2	Inner clutch piston ring			
18	24640116	2	Clutch piston			
19	24640117	2	Ball			
20	24640118	2	Outer clutch piston ring			
21	24640119	1	Input shaft and clutch housing			
22	24640120	2	Tapered roller bearing			
23A	24640121	2	Shim 0.1 mm			
23B	24640122	2	Shim 0.15 mm			
23C	24640301	2	Shim 0.2 mm			
23D	24640302	2	Shim 0.5 mm			
24	24640303	1	Tapered roller bearing			
25	24640304	1	Tapered roller bearing			
27	24640306	1	Tapered roller bearing			
28A	24640307	2	Shim 0.1 mm			



D_50Z3_2

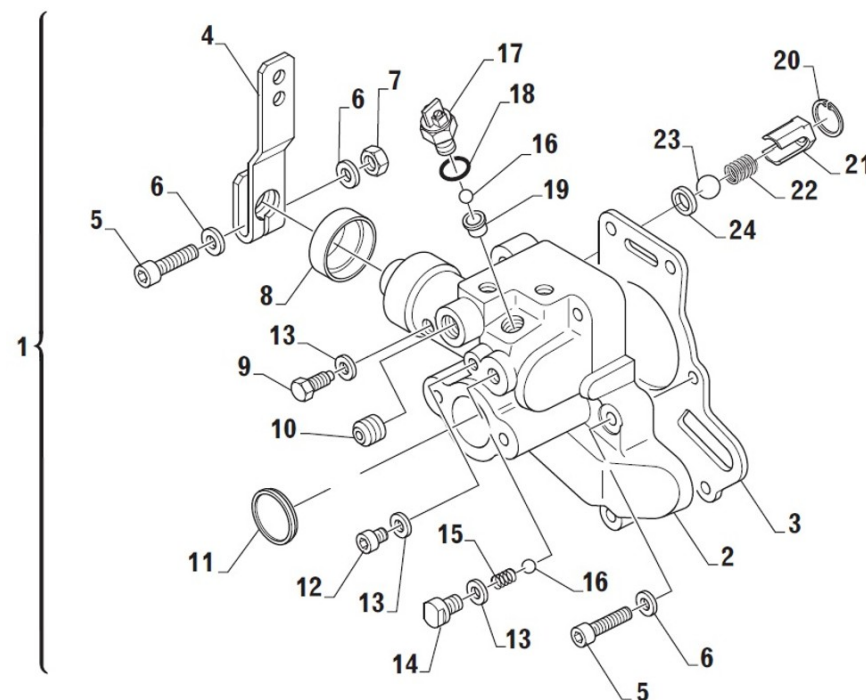
Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
28B	24640308	2	Shim 0.15 mm			
28C	24640309	2	Shim 0.3 mm			
28D	24640310	2	Shim 0.5 mm			
29	24640202	1	Tapered roller bearing			
30	24640203	1	Tapered roller bearing			
31A	24642104	1	Forward gear Z1=39			
31B	24642105	1	Forward gear Z1=35			
31C	24643101	1	Forward gear Z1=30			
32A	24642306	1	Intermediate shaft Z4=45, Z5=36			
32B	24642307	1	Intermediate shaft Z4=45, Z5=32			
32C	24643302	1	Intermediate shaft Z4=45, Z5=27			
33A	24642308	1	Intermediate shaft Z2=49, Z6=33			
33B	24642309	1	Intermediate shaft Z2=53, Z6=33			
33C	24643303	1	Intermediate shaft Z2=58, Z6=33			
33D	24644303	1	Intermediate shaft Z2=58, Z6=32			
34a	24642212	1	Spacer			
34A	24642210	1	Output shaft Z7=34			
34B	24644204	1	Output shaft Z7=41			



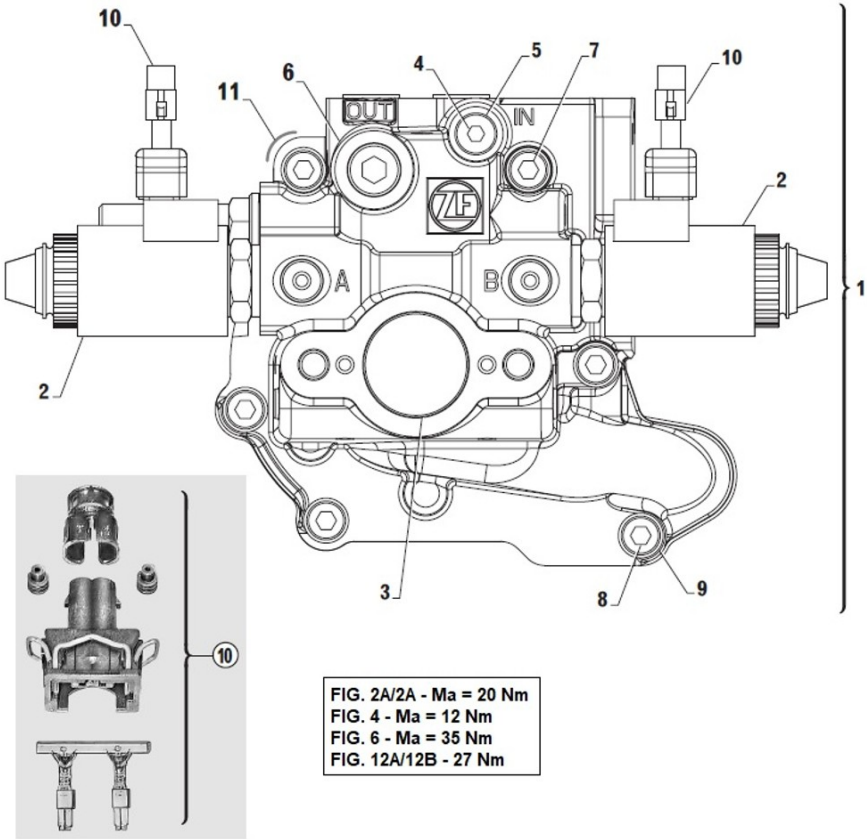
D_50Z3_3 Mechanical Selector Valve

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1A	24640401	1	Control Valve Assy. 23 Bar			
3	24640403	1	Gasket			
4	24640404	1	Lever			
5	24610404	7	Cap Screw M8X40			
6	24610033	8	Spring Washer			
7	24610041	1	Hex Nut			
8	24640408	1	Gasket			
9	24640409	1	Stop Screw			
10	24640410	1	Screw Plug			
11	24640411	1	Dummy Plug			
12	24640412	1	Screw Plug M10X1			
13	24640413	3	Washer			
14	24640414	1	Guide Bolt			
16	24640416	2	Ball			
17	24640417	1	Neutral Safety Switch Assy.			
18	24640418	1	O-Ring			
19	24640419	1	Bushing			
20	24640420	1	Snap Ring			
21	24640421	1	Bushing			
22	24640422	1	Spring			
23	24640423	1	Ball			
24	24640424	1	Spacer			

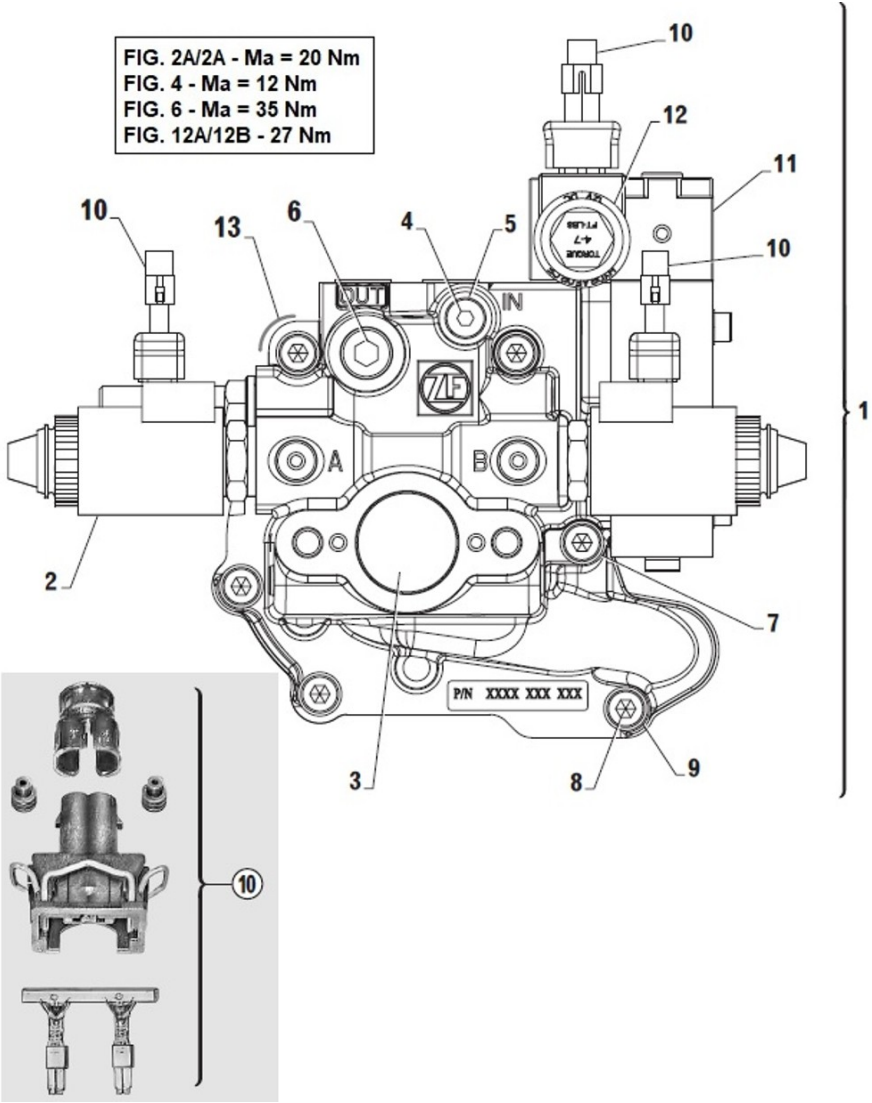


D_50Z3_4		Electric Selector Valve 12V/24V			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo

1A	24640501	1	Electr. Selector Valve On/Off 26 Bar 12V		
1B	24640502	1	Electr. Selector Valve On/Off 26 Bar 24V		
2A	24640503	2	Solenoid Valve On/Off 12V, 26 Bar		
2B	24640504	2	Solenoid Valve On/Off 24V, 26 Bar		
3	24640411	1	Dummy Plug		
4	24640412	1	Screw Plug M10X1		
5	24640413	1	Washer		
6	24640410	1	Screw Plug		
7	24640509	2	Cap Screw M8X65		
8	24610404	4	Cap Screw M8X40		
9	24610033	6	Spring Washer		
10	24640512	2	Connector Kit		
11	24640403	1	Gasket		

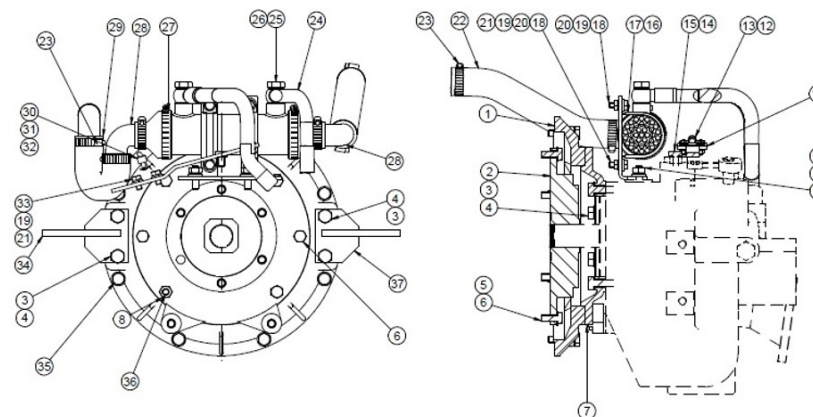
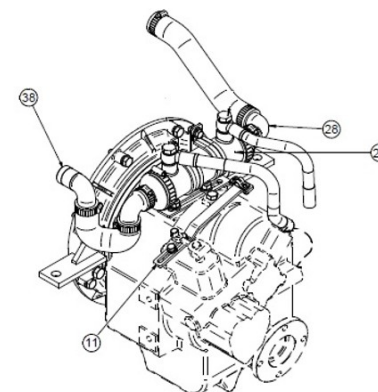


D_50Z3_5		Electric Selector Valve 12V/24V (TV)			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1A	24640514	1	Elec. Selec. Valve On/Off 12V 26 Bar TV		
1B	24640515	1	Elec. Selec. Valve On/Off 24V 26 Bar TV		
2A	24640503	2	Solenoid Valve On/Off 12V, 26 Bar		
2B	24640504	2	Solenoid Valve On/Off 24V, 26 Bar		
3	24640411	1	Dummy Plug		
4	24640412	1	Screw Plug M10X1		
5	24640413	1	Washer		
6	24640410	1	Screw Plug		
7	24640509	2	Cap Screw M8X65		
8	24610404	4	Cap Screw M8X40		
9	24610033	6	Spring Washer		
10	24640512	3	Connector Kit		
11	24640526	1	Trolling Device		
12A	24640527	1	Proportional Valve 12V		
12B	24640528	1	Proportional Valve 24V		
13	24640403	1	Gasket		



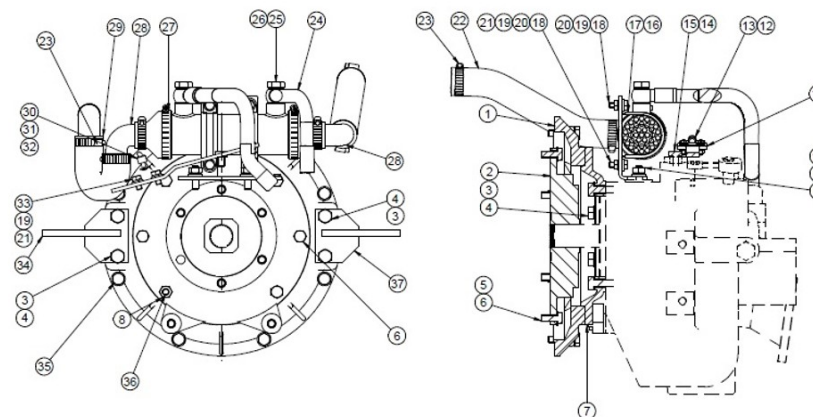
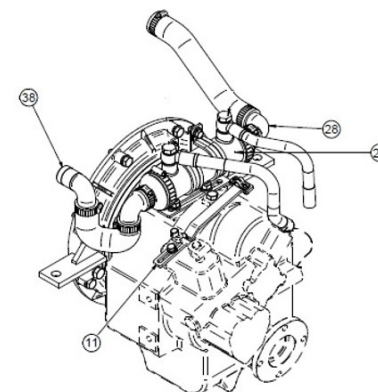
1A010200 Kit GearBox TM-93/A

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17010018.1	1	Adaptor SAE 7 RD			
2	18310171	1	Flexible Coupling Type B SAE 8" BW			
3	53033012	11	Washer Grower DIN 127-12			
4	52102359	11	Bolt DIN 933 M12-30 8.8			
5	53038010	14	Washer DIN 6798-A 10			
6	52102308	11	Bolt DIN 933 M10-25 8.8			
7	24810022	1	SAE 7 - BW housing TM-93/A/170/880A (H=30 mm)			
8	52120010	3	Nut DIN 934 M10 8.8			
9	53033010	8	Washer GROWER DIN 127-10			
10	51030010	2	Washer DIN 125-10			
11	18619020	1	Bracket,Gear box control			
12	51030005	2	Washer DIN 125-5			
13	24810913	1	Clamp,CABLE			
14	56000061	1	Washer 10-16-1,5			
15	52102306	1	Bolt DIN 933 M10-15 8.8			
16	18012041	1	Bracket,TM93/170 oil cooler			
17	59072604	2	Clamp			
18	52102257	4	Bolt DIN 933 M8-20 8.8			
19	53033008	6	Washer GROWER DIN 127-8			
20	52120008	4	Nut DIN 934 M8 8.8			
21	51030008	6	Washer DIN 125-8			
22	M87503242	0.0	Water Intake Hose (HQ) D. 32-42			
23	54082025	6	Clamp DIN 3017 25-40/12 W4			
24	17112024	2	Pipe, rev.oil Cooler			
25	14712015	2	Bolt,Coupling pipe oil			
26	59031017	4	Washer			
27	14712151	1	Oil Cooler Assy, D.30			
28	15212022	2	Elbow			
29	18211034	1	Pipe,Rubber			
30	14719115	1	Coupling,cable			
31	51030006	1	Washer DIN 125-6			

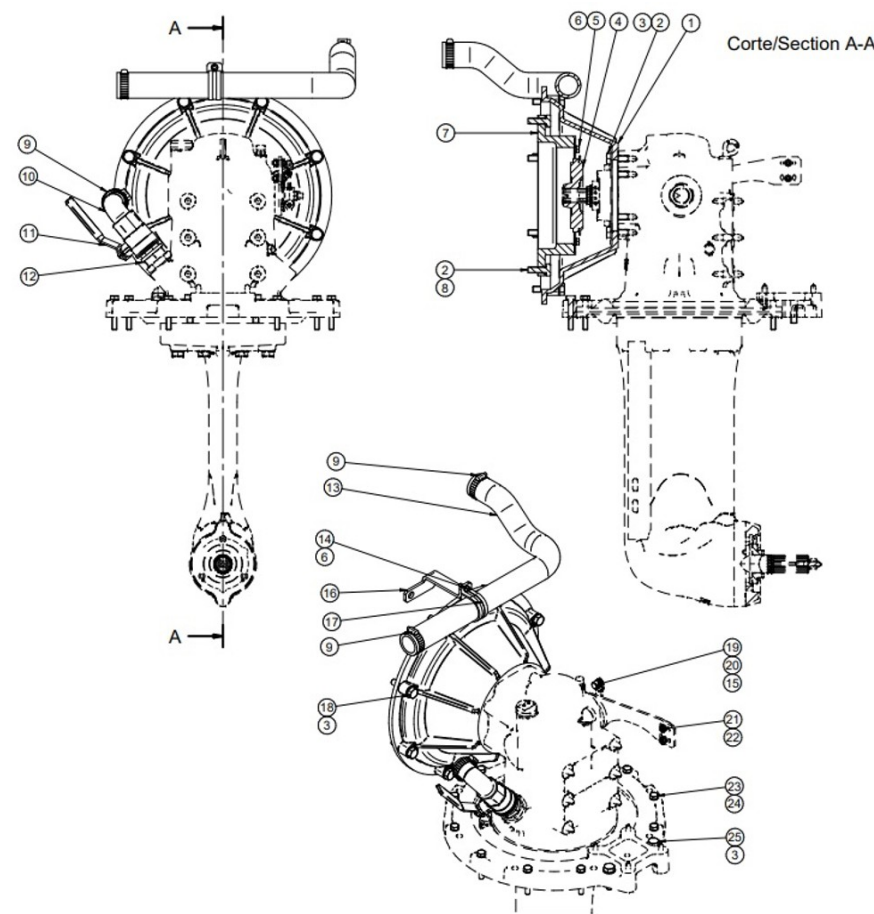


1A010200 **Kit GearBox TM-93/A**

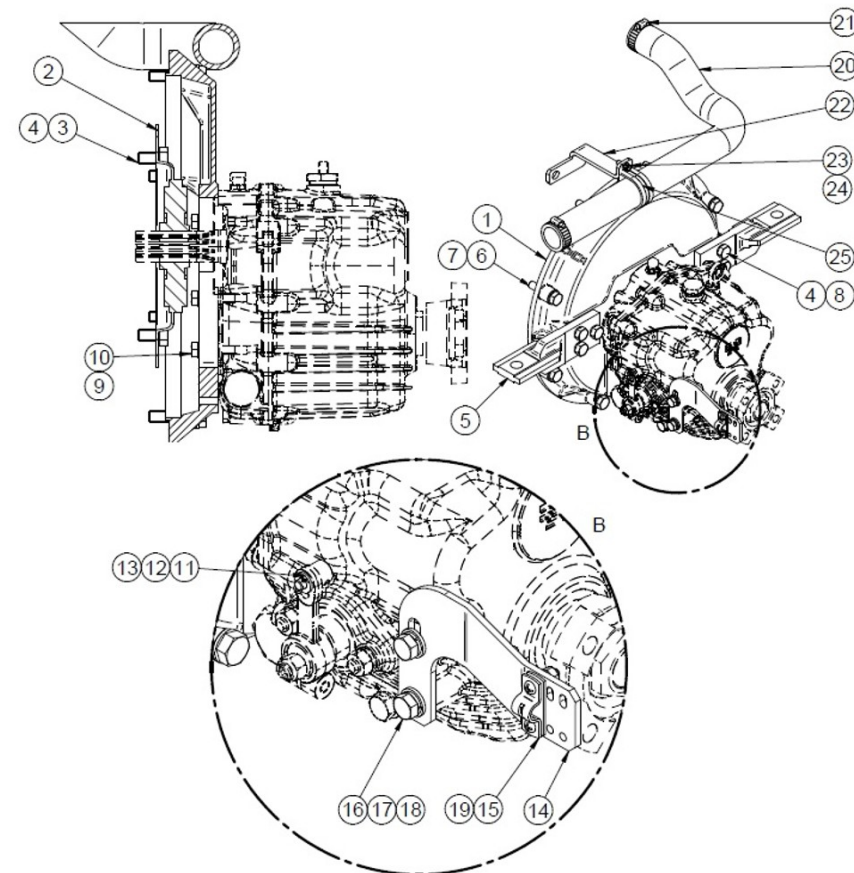
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	51051107	1	Pin DIN-94 1,6-16			
33	52102256	2	Bolt DIN 933 M8-16 8.8			
34	17110009	1	Right Rear Bracket			
35	52101311	8	Bolt DIN 931 M10-40 8.8			
36	16511007	1	Stud			
37	17110008	1	Left Rear Bracket			
38	14711022	1	Elbow N°2			
NS	60180007	1	Outlet Coupling			



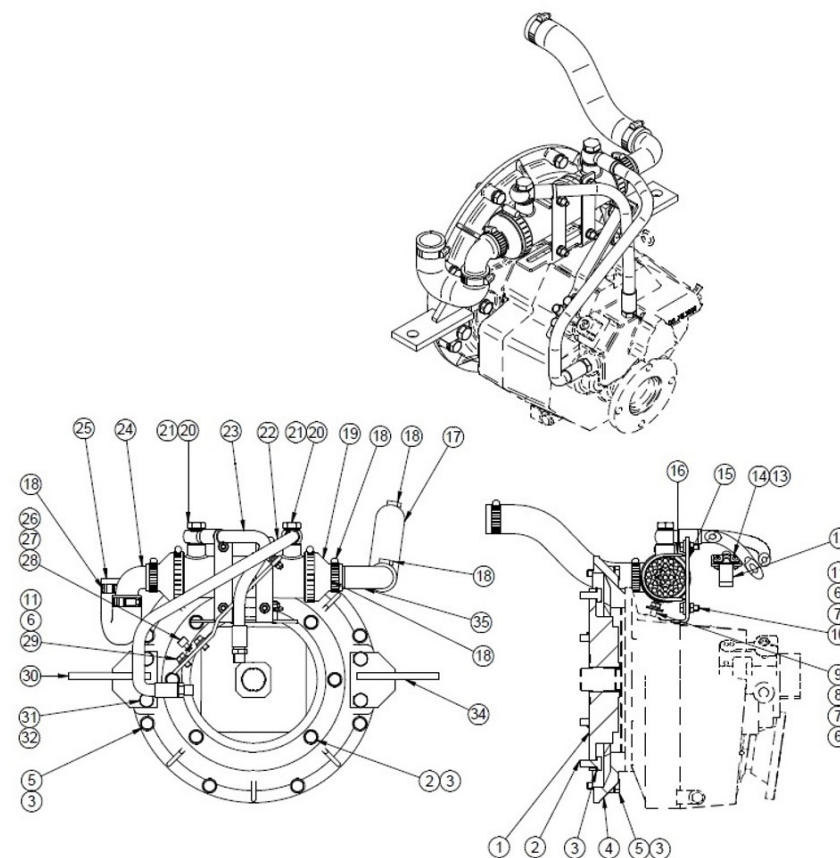
1A032100T		Kit S-Drive TECHNO.SP60				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17110022	1	Adaptor Flange			
2	52102309	14	Bolt DIN 933 M10-30 8.8			
3	53038010	18	Washer DIN 6798-A 10			
4	14710070	1	Flexible coupling type A D. 185			
5	52102156	6	Bolt DIN 933 M6-16 8.8			
6	53033006	7	Washer GROWER DIN 127-6			
7	17110023	1	Suplement,Flywheel			
8	53033010	6	Washer GROWER DIN 127-10			
9	54082025	3	Clamp DIN 3017 25-40/12 W4			
10	17511012	1	Elbow			
11	17111005	1	Water Trainer 1" M-H			
12	17111006	1	Racord 1" M-H			
13	1A011035	1	Hose			
14	52103156	1	Bolt DIN 912 M6-16 8.8			
15	51030006	1	Washer DIN 125-6			
16	1A011029	1	Bracket			
17	59071452	1	Clamp 1 42/15 W1			
18	52102312	8	Bolt DIN 933 M10-45 8.8			
19	14719115	1	Coupling,cable			
20	51051107	1	Pin DIN-94 1,6-16			
21	24810913	1	Clamp,CABLE			
22	51030005	2	Washer DIN 125-5			
23	52101263	11	Bolt DIN 931 M8-50 8.8			
24	53038008	11	Washer DIN 6798-A 8			
25	52101311	2	Bolt DIN 931 M10-40 8.8			
NS	58088280	2	Pastic Cable Zip Tie			
NS	M87503040	1.0	Water Intake Hose (HQ) D. 30-38			



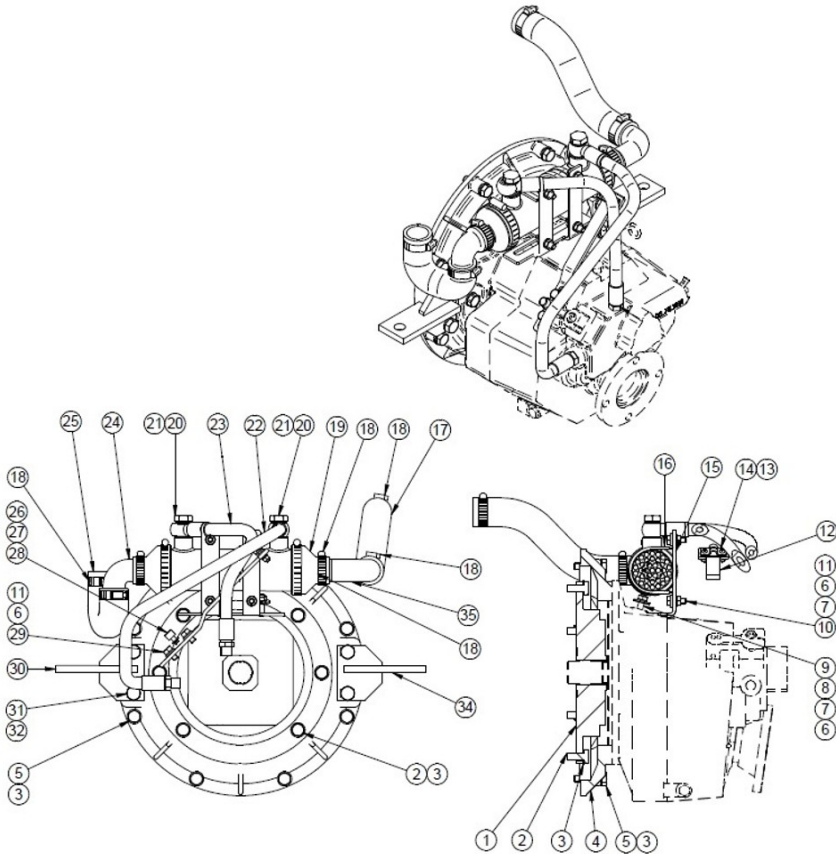
1A010245		Kit GearBox TMC-60			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17010014	1	HURTH,block rever.connection		
2	1A010070	1	Flexible Coupling Type A D.220		
3	52202307	6	Bolt DIN 933 M10-1,25-20 8.8		
4	53033010	12	Washer GROWER DIN 127-10		
5	17110003	2	Bracket,rear		
6	53038010	8	Washer DIN 6798-A 10		
7	52102312	8	Bolt DIN 933 M10-45 8.8		
8	52102309	6	Bolt DIN 933 M10-30 8.8		
9	53038008	6	Washer DIN 6798-A 8		
10	52101260	6	Bolt DIN 931 M8-35 8.8		
11	51030006	4	Washer DIN 125-6		
12	14719115	1	Coupling,cable		
13	51051107	1	Pin DIN-94 1,6-16		
14	24880901	1	Bracket, GearBox Control		
15	24810913	1	Clamp,CABLE		
16	52102257	2	Bolt DIN 933 M8-20 8.8		
17	53033008	2	Washer GROWER DIN 127-8		
18	51030008	2	Washer DIN 125-8		
19	51030005	2	Washer DIN 125-5		
20	1A011035	1	Hose		
21	54082025	2	Clamp DIN 3017 25-40/12 W4		
22	1A011029	1	Bracket		
23	52103156	1	Bolt DIN 912 M6-16 8.8		
24	53033006	1	Washer GROWER DIN 127-6		
25	59071452	1	Clamp 1 42/15 W1		



1A010210		Kit GearBox TM-345/A				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	18310171	1	Flexible Coupling Type B SAE 8" BW			
2	52102308	11	Bolt DIN 933 M10-25 8.8			
3	53038010	20	Washer DIN 6798-A 10			
4	17010018.1	1	Adaptor SAE 7 RD			
5	52101311	8	Bolt DIN 931 M10-40 8.8			
6	53033008	8	Washer GROWER DIN 127-8			
7	52120008	6	Nut DIN 934 M8 8.8			
8	51031008	2	Washer DIN 9021 8			
9	12120018	2	Stud			
10	52102257	4	Bolt DIN 933 M8-20 8.8			
11	51030008	6	Washer DIN 125-8			
12	18619020	1	Bracket,Gear box control			
13	51030005	2	Washer DIN 125-5			
14	24810913	1	Clamp,CABLE			
15	18012041	1	Bracket,TM93/170 oil cooler			
16	59072604	2	Clamp			
17	M87503242	0.0	Water Intake Hose (HQ) D. 32-42			
18	54082025	6	Clamp DIN 3017 25-40/12 W4			
19	14712151	1	Oil Cooler Assy, D.30			
20	14712015	2	Bolt,Coupling pipe oil			
21	59031017	4	Washer			
22	17512017	1	Pipe, rev.oil Cooler			
23	18512024	1	Pipe			
24	15212022	1	Elbow			
25	18211034	1	Pipe,Rubber			
26	51051107	1	Pin DIN-94 1,6-16			
27	51030006	4	Washer DIN 125-6			
28	14719115	1	Coupling,cable			
29	52102256	2	Bolt DIN 933 M8-16 8.8			
30	17110009	1	Right Rear Bracket			
31	52102359	4	Bolt DIN 933 M12-30 8.8			

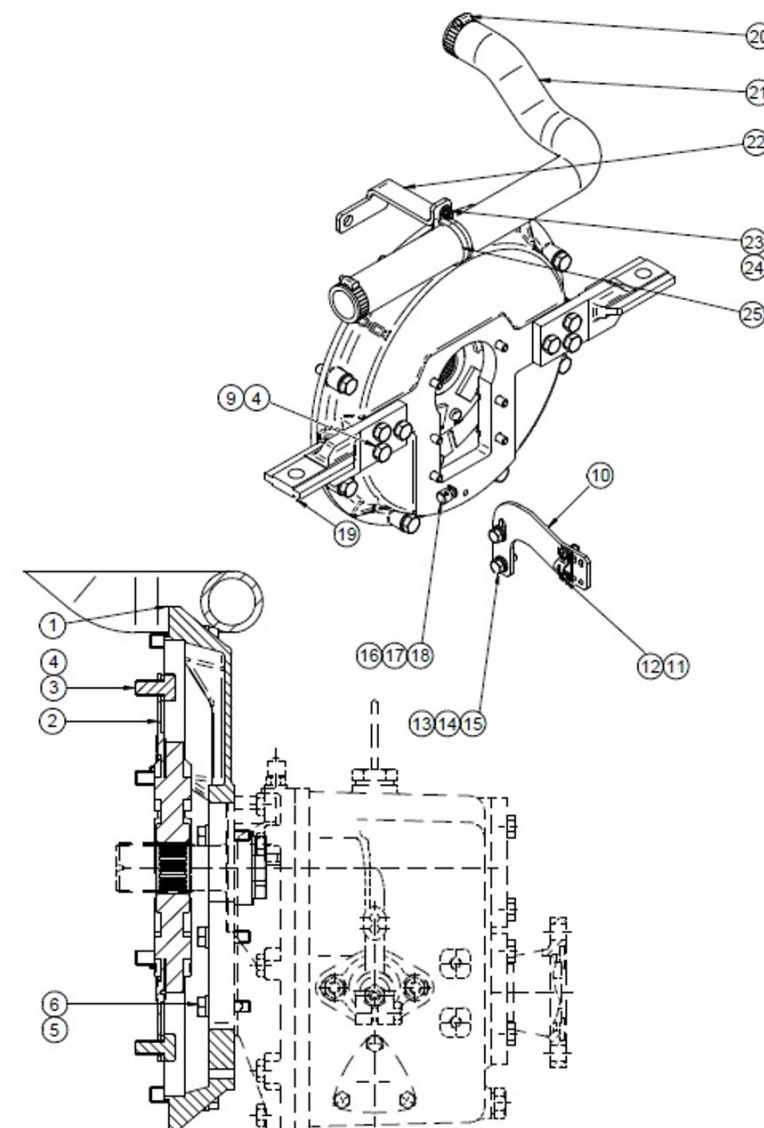


1A010210		Kit GearBox TM-345/A				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	53033012	4	Washer Grower DIN 127-12			
34	17110008	1	Left Rear Bracket			
35	17111010	1	Elbow			
NS	60180007	1	Outlet Coupling			



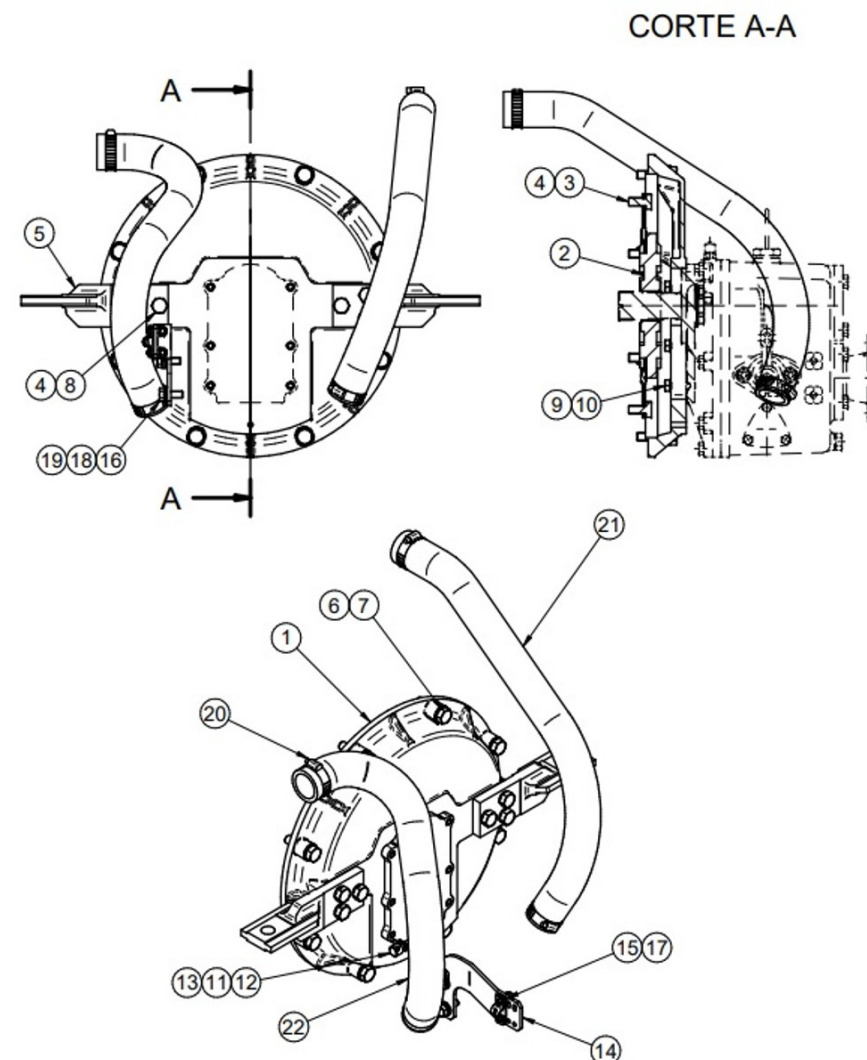
1A010225 Kit GearBox TMC-260

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17010014	1	HURTH,block rever.connection			
2	14910010.1	1	Flexible Coupling Type A SAE 8"			
3	52102307	6	Bolt DIN 933 M10-20 8.8			
4	53033010	12	Washer GROWER DIN 127-10			
5	53038008	6	Washer DIN 6798-A 8			
6	52102259	6	Bolt DIN 933 M8-30 8.8			
7	52101311	8	Bolt DIN 931 M10-40 8.8			
8	53038010	8	Washer DIN 6798-A 10			
9	52102309	6	Bolt DIN 933 M10-30 8.8			
10	24880901	1	Bracket, GearBox Control			
11	51030005	2	Washer DIN 125-5			
12	24810913	1	Clamp,CABLE			
13	51030008	2	Washer DIN 125-8			
14	53033008	2	Washer GROWER DIN 127-8			
15	52102257	2	Bolt DIN 933 M8-20 8.8			
16	51051107	1	Pin DIN-94 1,6-16			
17	51030006	4	Washer DIN 125-6			
18	14719115	1	Coupling,cable			
19	17110003	2	Bracket,rear			
20	54082025	2	Clamp DIN 3017 25-40/12 W4			
21	1A011035	1	Hose			
22	1A011029	1	Bracket			
23	52103156	1	Bolt DIN 912 M6-16 8.8			
24	53033006	1	Washer GROWER DIN 127-6			
25	59071452	1	Clamp 1 42/15 W1			
NS	24890026	2	Cover			

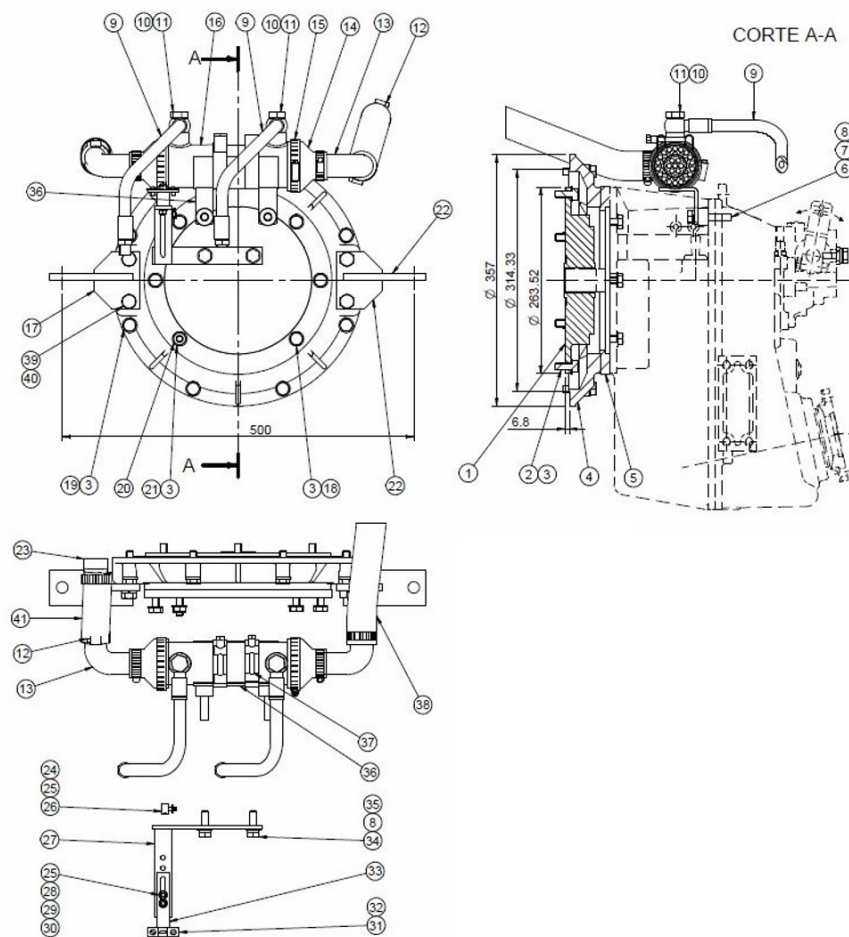


1A010227 Kit GearBox TMC-260 Cooler Assy

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17010014	1	HURTH,block rever.connection			
2	14910010.1	1	Flexible Coupling Type A SAE 8"			
3	52102307	6	Bolt DIN 933 M10-20 8.8			
4	53033010	12	Washer GROWER DIN 127-10			
5	17110003	2	Bracket,rear			
6	53038010	8	Washer DIN 6798-A 10			
7	52101311	8	Bolt DIN 931 M10-40 8.8			
8	52102309	6	Bolt DIN 933 M10-30 8.8			
9	53038008	6	Washer DIN 6798-A 8			
10	52102259	6	Bolt DIN 933 M8-30 8.8			
11	51030006	1	Washer DIN 125-6			
12	14719115	1	Coupling,cable			
13	51051107	1	Pin DIN-94 1,6-16			
14	24880901	1	Bracket, GearBox Control			
15	24810913	1	Clamp,CABLE			
16	52102257	2	Bolt DIN 933 M8-20 8.8			
17	51030005	2	Washer DIN 125-5			
18	53033008	2	Washer GROWER DIN 127-8			
19	51030008	2	Washer DIN 125-8			
20	54082025	4	Clamp DIN 3017 25-40/12 W4			
21	M87503242	1.0	Water Intake Hose (HQ) D. 32-42			



1A010255		Kit GearBox ZF 68 IV				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	18310171	1	Flexible Coupling Type B SAE 8" BW			
2	52102308	6	Bolt DIN 933 M10-25 8.8			
3	53038010	20	Washer DIN 6798-A 10			
4	17010018.1	1	Adaptor SAE 7 RD			
5	18210024	1	Adaptor Flange			
6	52101314	2	Bolt DIN 931 M10-55 8.8			
7	19117011	2	Spacer 10,5X19X15			
8	53033010	4	Washer GROWER DIN 127-10			
9	18512024	2	Pipe			
10	59031017	4	Washer			
11	14712015	2	Bolt,Coupling pipe oil			
12	54082025	6	Clamp DIN 3017 25-40/12 W4			
13	17111010	2	Elbow			
14	15312007	2	Water Cooler Cover			
15	54082050	2	Clamp DIN 3017 50-70/12 W4			
16	1A012051	1	Cooler,oil			
17	17110009	1	Right Rear Bracket			
18	52102310	5	Bolt DIN 933 M10-35 8.8			
19	52101311	8	Bolt DIN 931 M10-40 8.8			
20	52120010	1	Nut DIN 934 M10 8.8			
21	15211002	1	Stud			
22	17110008	1	Left Rear Bracket			
23	60180007	2	Outlet Coupling			
24	51051107	1	Pin DIN-94 1,6-16			
25	51030006	5	Washer DIN 125-6			
26	14719115	1	Coupling,cable			
27	16519020	1	Bracket, Gear box control			
28	52102157	2	Bolt DIN 933 M6-20 8.8			
29	53033006	2	Washer GROWER DIN 127-6			
30	52120006	2	Nut DIN 934 M6 8.8			
31	14719013	1	Clamp,cable			



1A010255 Kit GearBox ZF 68 IV

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	55307104	2	Bolt DIN 86 W3/16-10			
33	12119021	1	SUPPORT Clamp			
34	52302258	2	Bolt DIN 933 W3/8-25 8.8			
35	51030010	2	Washer DIN 125-10			
36	16512010	1	Bracket,oil cooler			
37	51083060	2	GP Clamp 59-63 W2			
38	M87503242	0.0	Water Intake Hose (HQ) D. 32-42			
39	52102359	4	Bolt DIN 933 M12-30 8.8			
40	53033012	4	Washer Grower DIN 127-12			
41	13211036	1	Pipe 30-40-100			

