



Engine MINI-29 v6

VERSION 2024-4

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.

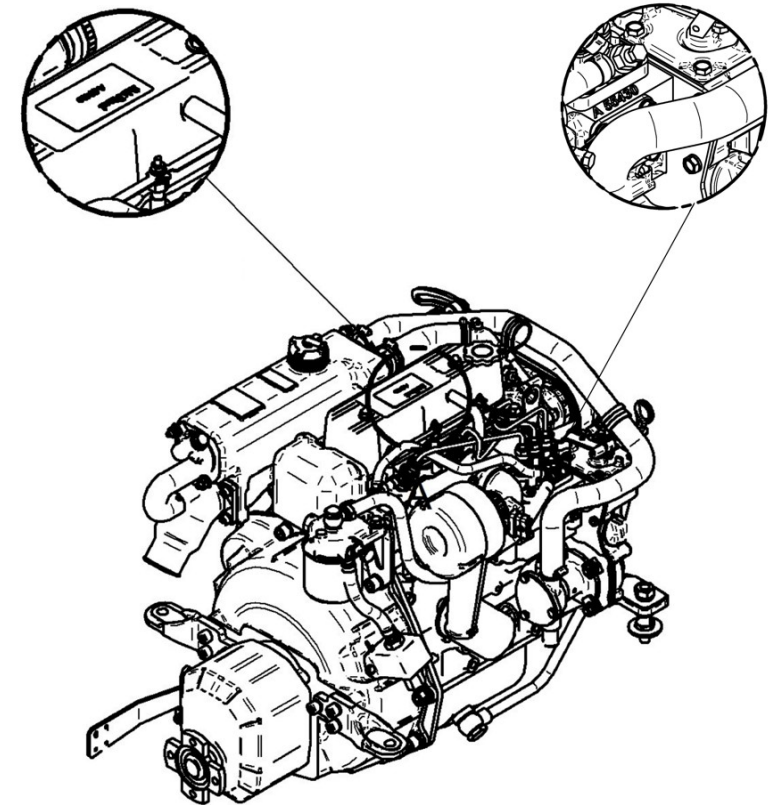
In case of doubt, contact Solé Diesel, or your authorized dealer.

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

SOLE, S.A.

C-243b, km, 2

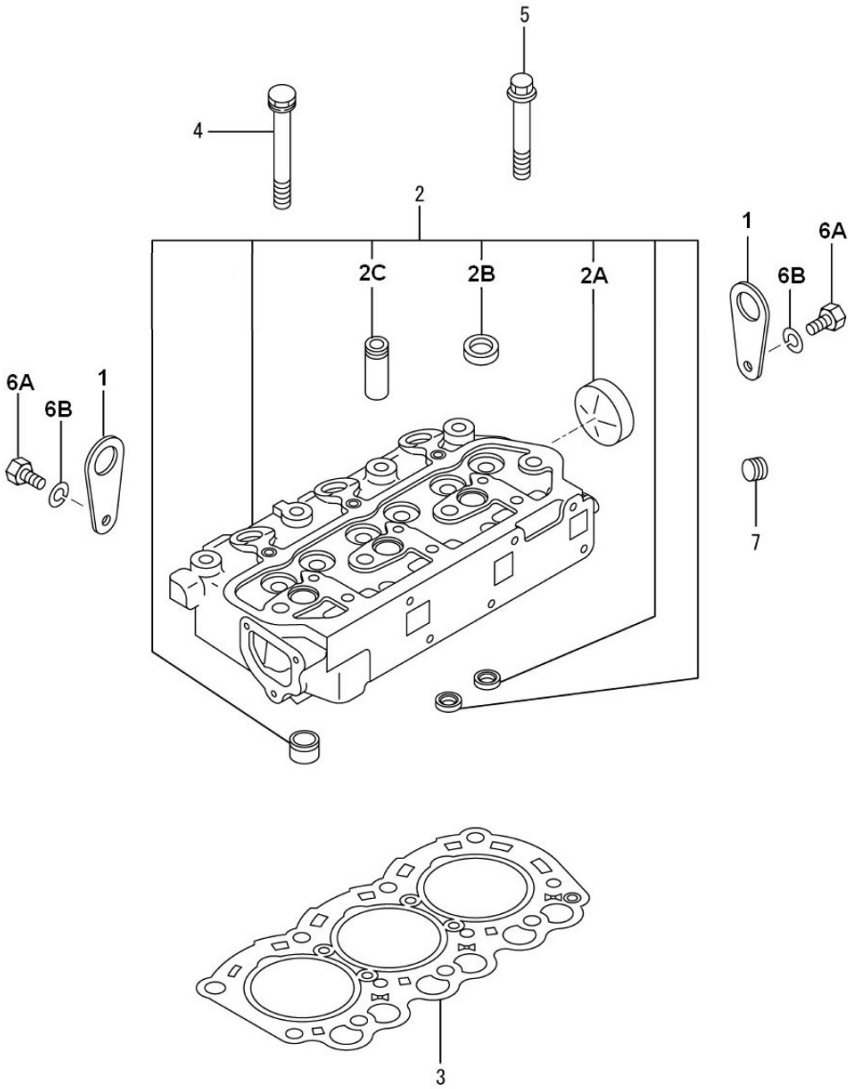
08760 Martorell (Barcelona) Spain



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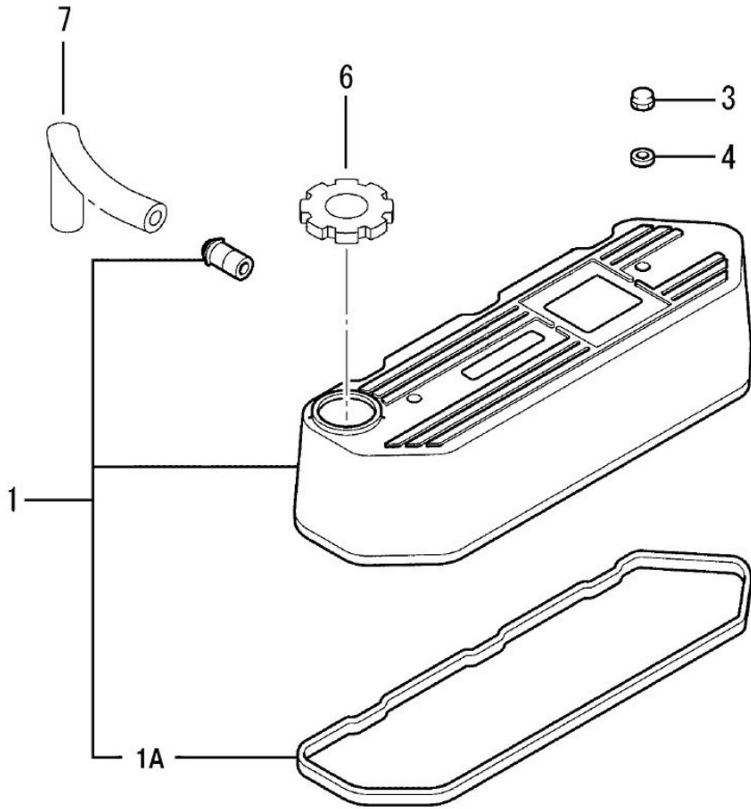
Engine Body	Sheet 1/4 Sheet 2/4 Sheet 3/4 Sheet 4/4 Maintenance Kit
Cylinder Head Rocker Cover and Breather Valve Drive Timing Parts Gear Case Cranckcase Rear Plate Piston & Connectiong Rod Crankshaft & Flywheel Oil System Oil Pan Engine Brackets Belt Protection	TM-345 Gearbox Sheet 1/4 Sheet 2/4 Sheet 3/4 Sheet 4/4 Maintenance Kit
Inlet & Exhaust Inlet	SP60 S.Drive Sheet 1/4 SP60 S.Drive V1 Sheet 2/4 SP60 S.Drive V1 Sheet 3/4 SP60 S.Drive V1 Sheet 4/4 SP60 S.Drive V1 Sheet 1/4 SP60 S.Drive V2 Sheet 2/4 SP60 S.Drive V2 Sheet 3/4 SP60 S.Drive V2 Sheet 4/4 SP60 S.Drive V2 Maintenance Kit
Cooling System Water Pump Cooler Pipes Splined Pump 1/2" MINI-11/17/29/33/44 Wet Exhaust Water Cooler Assy MINI-29 V6	Gearbox TMC-40P Sheet 1/2 Sheet 2/2
Fuel System Fuel Pipe Injection Nozzle Fuel Injection Pump Governor Parts Fuel Supply Parts	Gearbox TMC-60P Sheet 1/2 Sheet 2/2
Electrical System Kit Alternator 14V/75A Starter Assy 12V Electrical Wiring SVT 20 MINI-17/29 Panel SVT 30 MINI-17/29 Panel Panel SSG 20 Spare Parts Panel SSG 30 Spare Parts Engine Extension	Gearbox TMC-60A Sheet 1/2 Sheet 2/2
Maintenance Kit Kit Gasket Pipe Rubber Set,water line 6 V. Repair Kit Water Pump 1/2" Special Tools	GearBox ZF-15 MIV Sheet 1/2 Sheet 2/2
	Kit Gearbox MINI-29 Kit GearBox TM-345/345A Kit S-Drive TECHNO.SP60 Kit GearBox TMC-40P Kit GearBox TMC-60 Kit GearBox ZF 15 MIV

D_MIB1_1_1						Cylinder Head	
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo	
1	17610008	2	HANGER,Engine				
2	17621001.4	1	Head Assy,Cylinder				
2A	13520013	1	Cap,SealING				
2B	13821012	3	Cap				
2C	17621002.4	6	Guide Valve				
3	17621004	1	Gasket,Cylinder Head				
4	13821005	8	Bolt,cylinder head				
5	13821013	3	Bolt,cylinder head				
6A	52102256	2	Bolt DIN 933 M8-16 8.8				
6B	53033008	2	Washer GROWER DIN 127-8				
7	17621011.4	1	Plug TAPER				

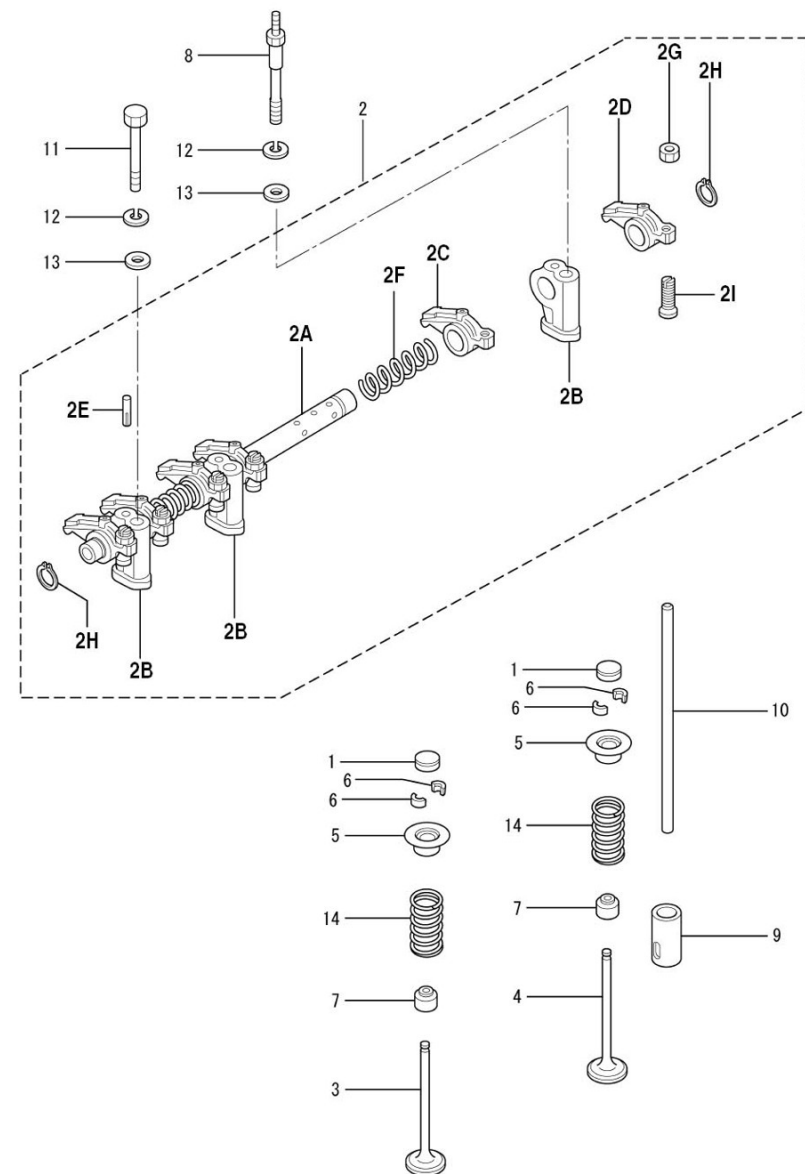


D_MIB1_1_2 Rocker Cover and Breather

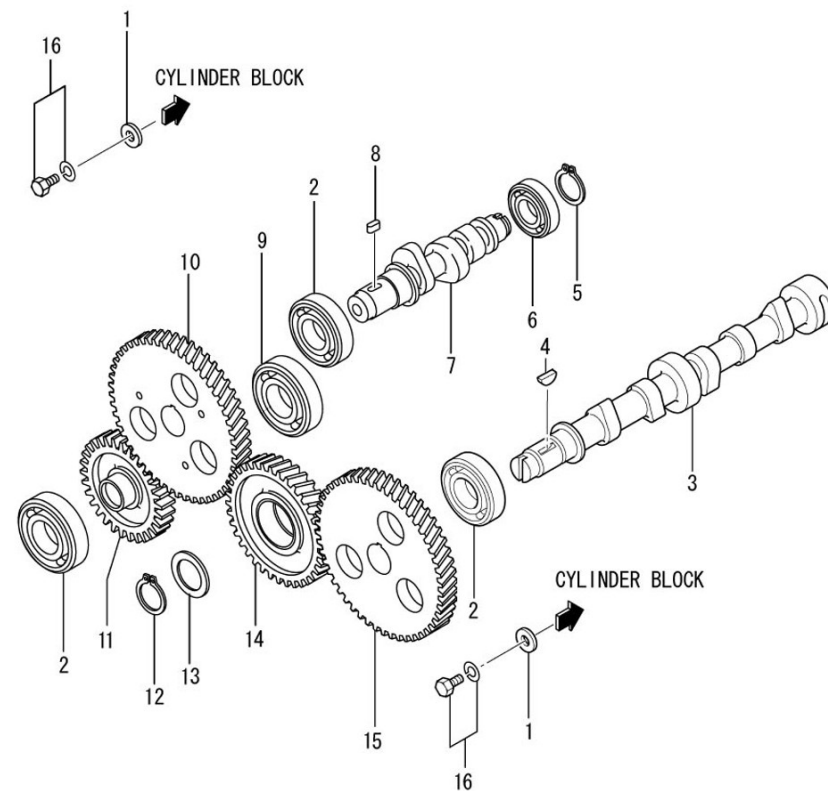
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17621009	1	Cover Assy,Rocker			
1A	17621010.1	1	Rocker Cover Gasket			
3	17621018	2	Nut			
4	51030018	2	Washer DIN 125-18			
5	17621006.4	1	Hose BREATHER			
6	17621003	1	Cap Oil FILLER			



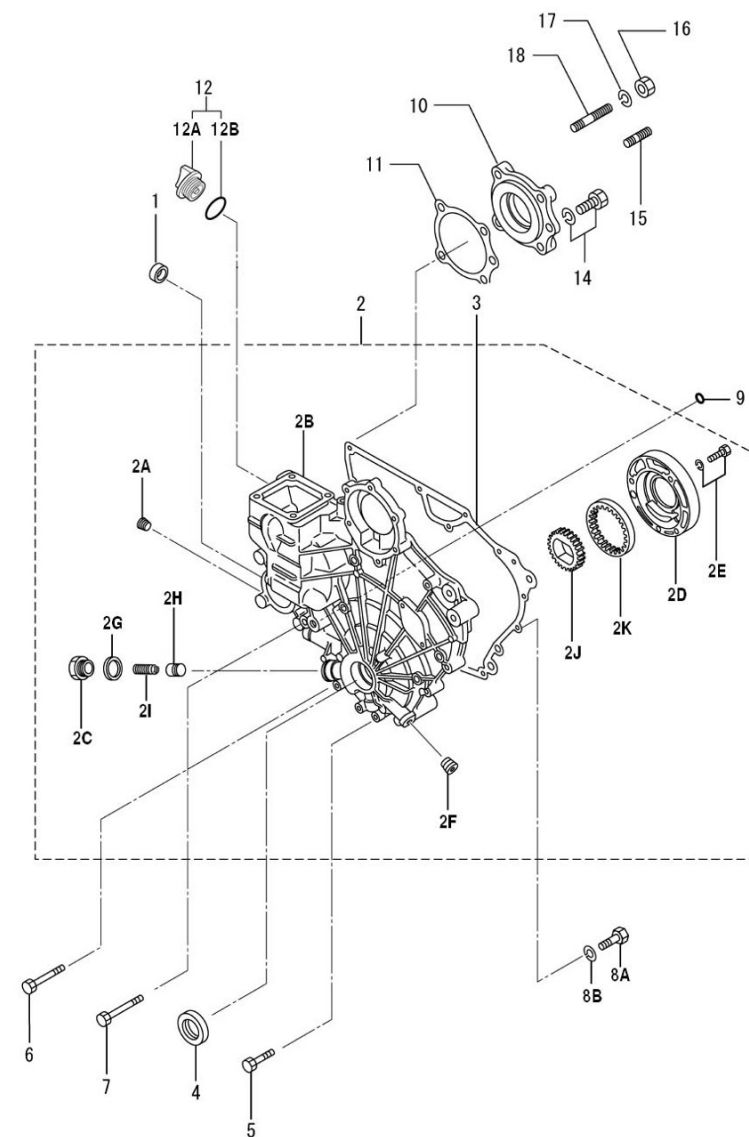
D_MIB1_1_3			Valve Drive			
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13822069	6	Cap Stem			
2A	17622046	1	Shaft Assy,Rocker			
2B	17622048	3	Bracket,Rocker Shaft			
2C	17622042	3	ARM,Rocker Inlet			
2D	17622045	3	ARM,Rocker Exhaust			
2E	17622070.4	1	Pin GROOVED			
2F	17622047.4	2	Spring Rocker SHAFT			
2G	52120006	6	Nut DIN 934 M6 8.8			
2H	53040012	2	CIRClip DIN 471 E-12			
2I	13822044	6	Screw Adjusting			
3	17622055	3	Intake Valve			
4	17622056	3	Exhaust Valve			
5	13822058	6	Retainer Valve SP			
6	17622059.4	12	LOCK Valve			
7	13222054	6	Seal Valve Stem			
8	17622053	2	Bolt,Rocker STAY			
9	13822061	6	Tappet			
10	17622041.4	6	ROD PUSH			
11	52101265	1	Bolt DIN 931 M8-60 8.8			
12	53033008	3	Washer GROWER DIN 127-8			
13	17622051.4	3	Washer			
14	17622057	6	Spring,Valve			



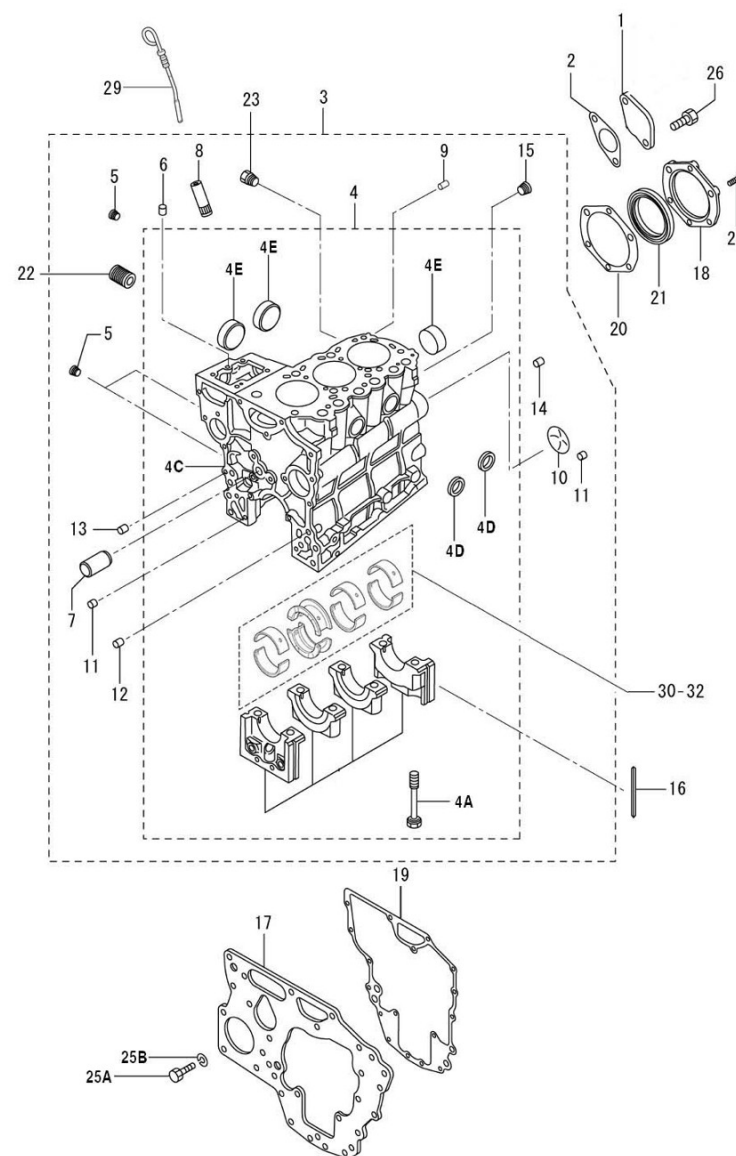
D_MIB2_1_4		Timing Parts				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13822033	1	Washer CamShaft Stop			
2	17622067.4	1	Bearing Ball			
3	17622035	1	CamShaft			
4	17622036.4	1	KEY			
5	53040016	1	CIRClip DIN 471 E-16			
6	17622068.4	1	Bearing Ball			
7	13822040.4	1	Shaft Fuel Injection Pump			
8	17622060.4	1	Key, Sunk			
9	13822066	1	Ball Bearing 6005-C3			
10	13822043.4	1	Gear,Fuel INJ.Pump Z=52			
11	13922065G	1	Gear Oil Pump			
12	53040020	1	CIRClip DIN 471 E-20			
13	17622034.4	1	Plate DISTANCE			
14	17622038.4	1	Gear Assy,IDLER Z=40			
15	17622043.4	1	Gear,Fuel INJ.Pump Z=52			
16	52102155	1	Bolt DIN 933 M6-12 8.8			



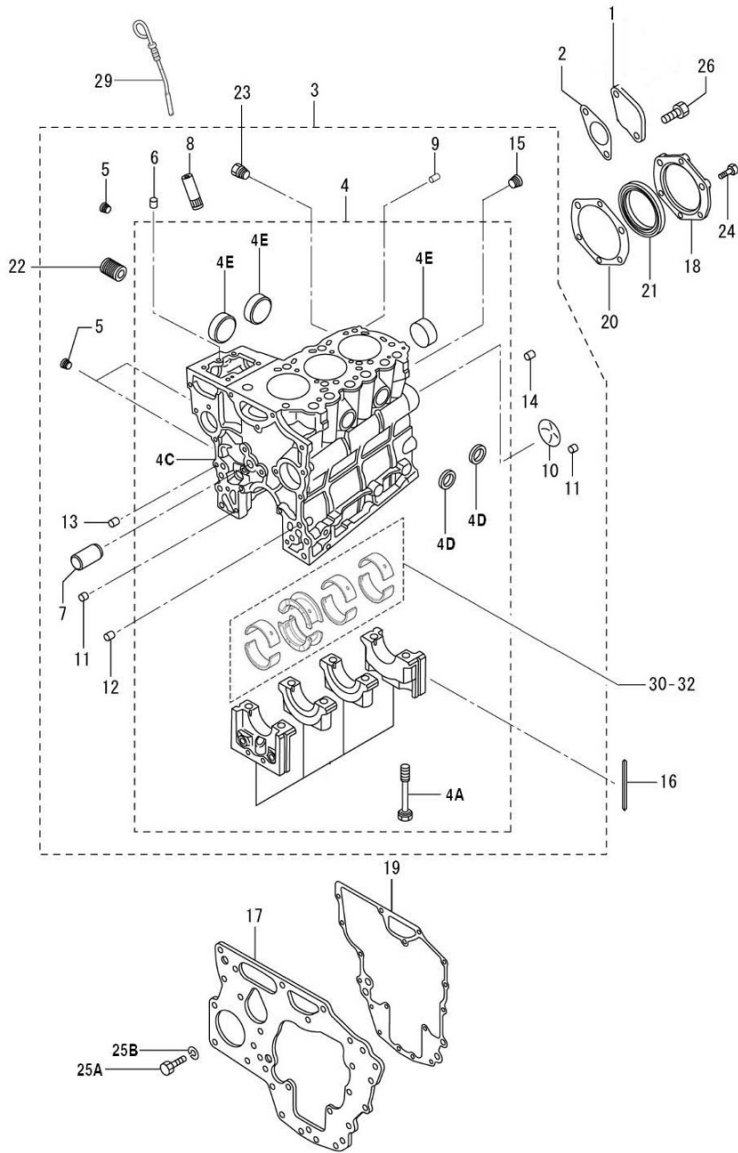
D_MIB1_1_5		Gear Case			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	13820045	1	Cap Sealing (20)		
2	17620035.4	1	Case Gear		
2A	17621011.4	1	Plug TAPER		
2C	13224045	1	Plug		
2D	17620052.4	1	Housing Oil Pump		
2E	17221043	3	Bolt,W/Washer		
2F	13820013.4	1	Plug		
2G	56000077	1	Washer 18-23-1,5		
2H	13224043	1	Plunger		
2I	13824044	1	Spring RELIEF		
2J	13820050	1	Gear Oil Pump INN		
2K	13820051	1	Gear Oil Pump OUT		
3	13820040	1	Gasket Gear Case		
4	13820039	1	Oil Seal		
5	52102160	3	Bolt DIN 933 M6-35 8.8		
6	52102164	4	Bolt DIN 933 M6-55 8.8		
7	52102166	1	Bolt DIN 933 M6-65 8.8 CINCADO		
8A	52102156	4	Bolt DIN 933 M6-16 8.8		
8B	53033006	4	Washer GROWER DIN 127-6		
9	13820044	2	O-Ring D. 11X2,5		
10	13820037	1	Housing Pump Gear		
11	13820038	1	Gasket Housing		
12	17621003.4	1	Cap Oil FILLER		
12	17621003.5	1	Cap Oil FILLER		
12B	13721007	1	O-Ring D. 30X3		
14	17122051	1	Bolt, w/washer		
15	13220043	1	Stud L 34		
16	17120049	4	Nut M8		
17	53033008	4	Washer GROWER DIN 127-8		
18	13220042	3	Stud L 54		



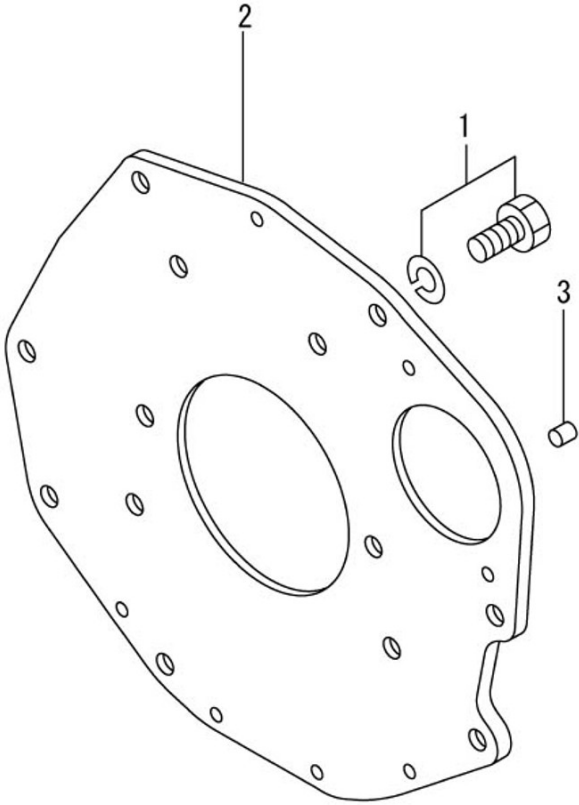
D_MIB3_1_6						Crankcase
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13820011	1	Cover			
2	17620012.4	1	Gasket Cover			
3	17620002	3	Block Assy,CYL			
4A	13820009.1	8	Bolt Bearing Cap			
4D	13220012	2	Cap Sealing			
4E	13520013	3	Cap,Sealing			
5	17620013.4	3	Plug Taper 1/16			
6	17620036.4	2	Pin Dowel			
7	17620014.4	1	Shaft IDLER			
8	17620007.4	1	Guide			
9	17620020.4	1	Pin			
10	13820013	1	Plug Expansion			
11	17620009.4	2	Bushing			
12	17620021.4	1	Bushing			
13	17620022.4	2	BUSHING,KNOCK			
14	17620010.4	3	Bushing			
15	17620023.4	1	Plug TAPER			
16	13820002	4	Seal Side			
17	13820017	1	Plate, Front			
18	13822060.4	1	Case, Oil Seal			
19	13820018	1	Gasket Front Plate			
20	17620016.4	1	Gasket Oil Seal Case			
21	13820008	1	Seal Oil			
22	17624047.4	1	Shaft Oil Filter			
23	17620024.4	1	Plug TAPER			
24	52102157	6	Bolt DIN 933 M6-20 8.8			
25	52102156	7	Bolt DIN 933 M6-16 8.8			
26	13827012	2	Bolt			
29	13820129C	1	Gauge Oil LEVEL			
30	13920003	1	Bearing Set CRANK STD.			
31	13920004	1	Bearing Set CRANK +0,25			



D_MIB3_1_6		Crankcase				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	13920005	1	Bearing Set CRANK			

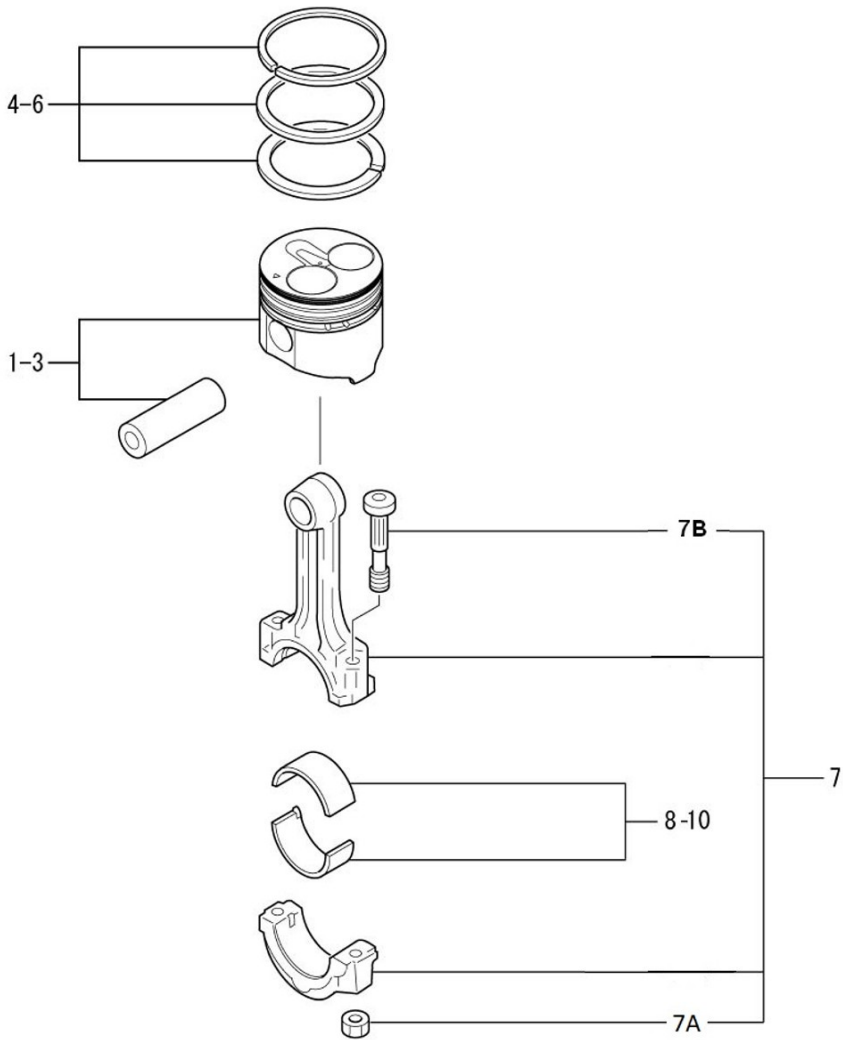


D_MIB1_1_7			Rear Plate			
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17120062	6	Bolt,w/washer			
2	13820024	1	Plate REAR			
3	13520060	1	Pin KNOCK (8X10)			

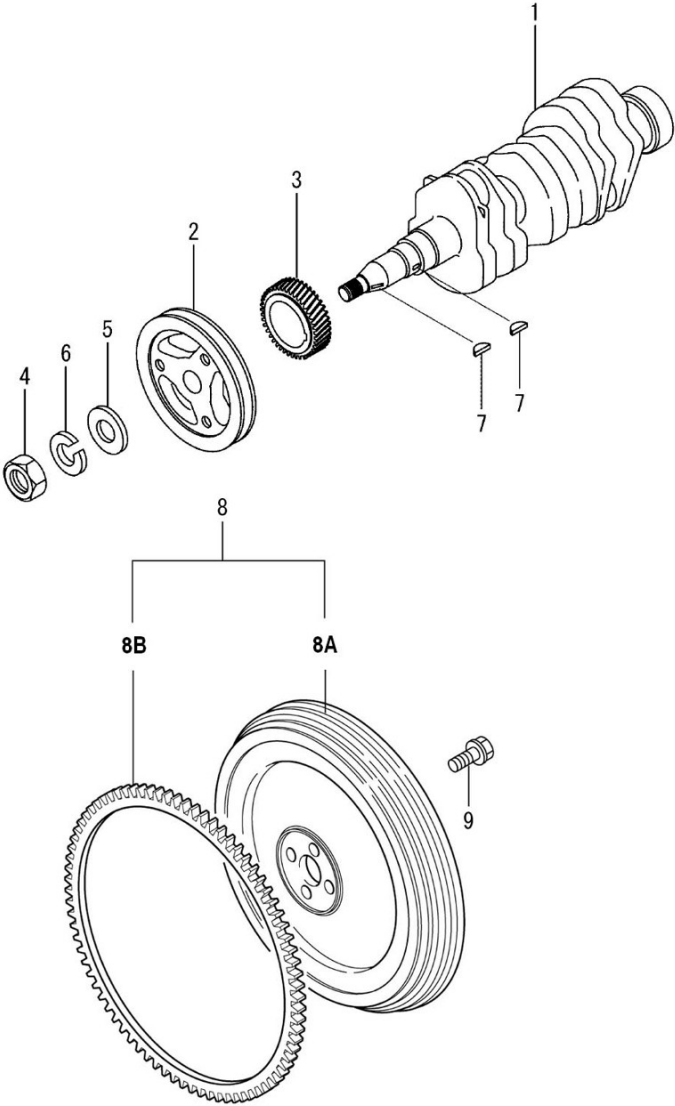


D_MIB1_1_8 Piston & Connectiong Rod

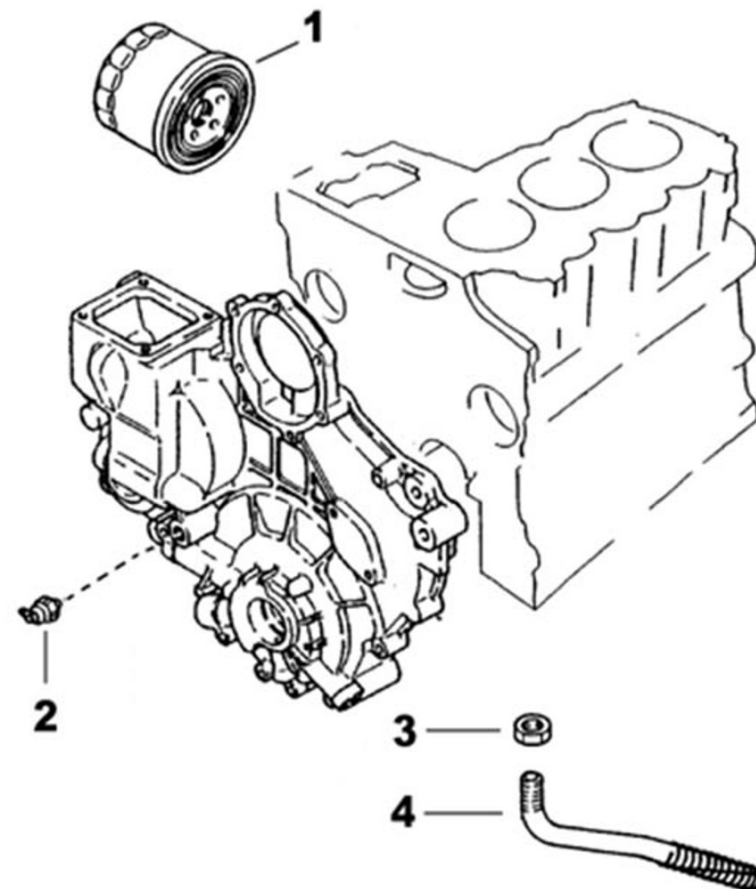
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17622001	3	Piston &Pin Set			
2	17622002	3	Piston & Pin Set			
3	17622003	3	Piston & Pin Set			
4	17622006	3	Ring Set,Piston STD.			
5	17622007	3	Ring Set,Piston O.S. 0.25			
6	17622008	3	Ring Set,Piston O.S. 0.50			
7	17622012.4	3	ROD Assy			
7A	13222011	6	Nut,connecting rod			
7B	13222013	6	Bolt,connecting rod			
8	13822014	3	Bearing Set,CON-ROD STD.			
9	13822015	3	Bearing Set,Con-Rod U.S. 0.25			
10	13822016	3	Bearing Set,Con-Rod U.S. 0.50			



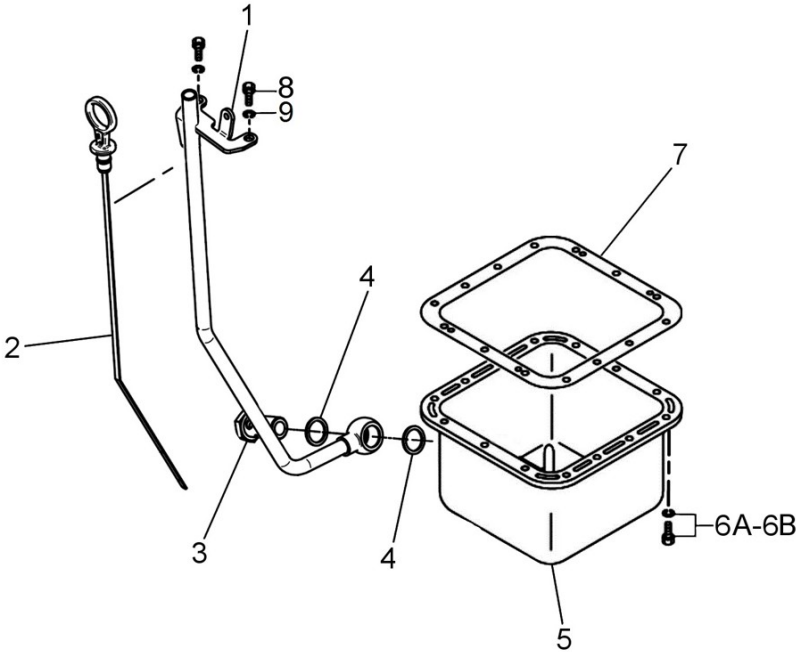
D_MIB1_1_9 Crankshaft & Flywheel					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	13922020	1	CrankShaft		
2	17622024.4	1	Pulley CrankShaft		
3	17622021.4	1	Gear CrankShaft Z=26		
4	13822026	1	Nut		
5	51030016	1	Washer DIN 125-16		
6	53033016C	1	Washer		
7	17622036.4	2	KEY		
8	17622027.4	1	Flywheel Assy		
8A	(*)	1	Not available		01/01/2016
8B	17622029.4	1	Gear Ring Z=106		
9	13822031.4	4	Bolt Flywheel		



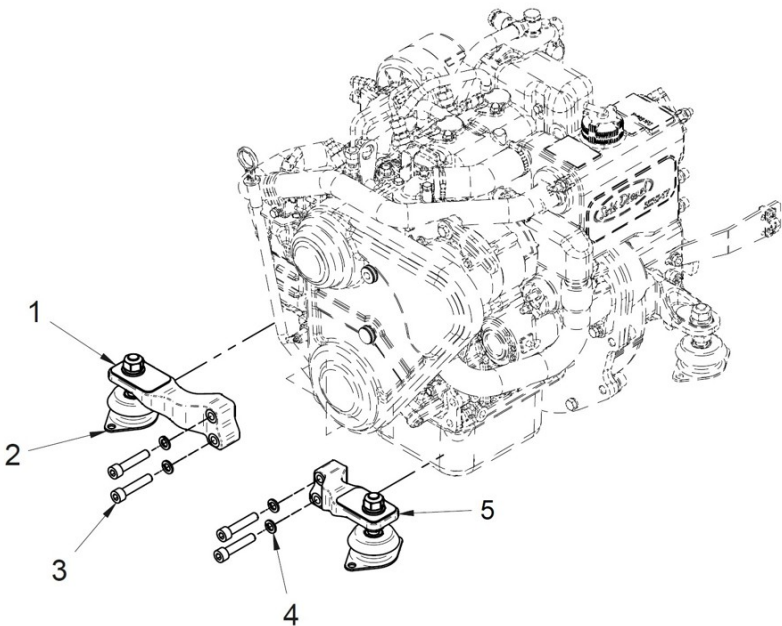
D_MIB1_1_10		Oil System				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13124051	1	Oil Filter Element from MINI 11 to 55			
2	13824060	1	SWITCH Assy			
3	51221014	1	Nut DIN 936 M14X1,5 5.6 ZINC			
4	13824052	1	SCREEN Assy Oil			



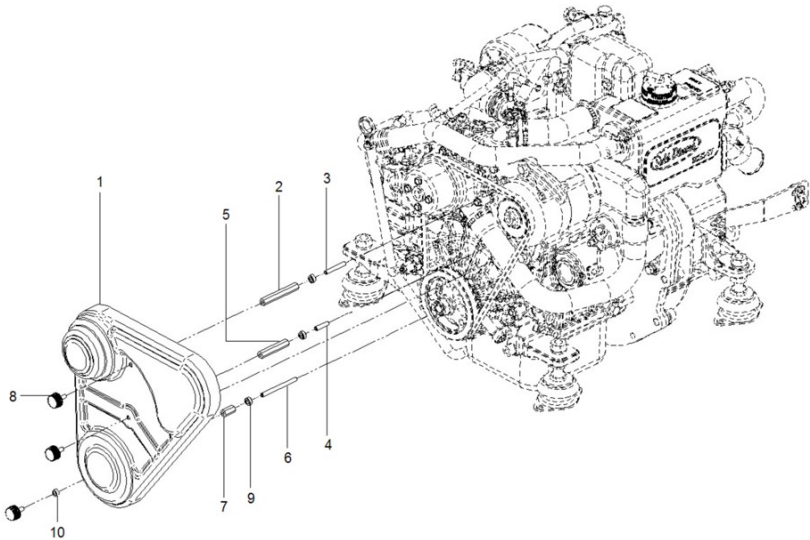
D_MIB3_1_11 Oil Pan					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17612030	1	Tube Oil Gauge		
2	13812029	1	Oil Dipstick		
3	16514022	1	Coupling,screw 18x150		
4	56000077	2	Washer 18-23-1,5		
5	13920030	1	PAN Assy,Oil		
6A	52102155	14	Bolt DIN 933 M6-12 8.8		
6B	53033006	14	Washer GROWER DIN 127-6		
7	13920033	1	Gasket Oil PAN		
8	52102157	2	Bolt DIN 933 M6-20 8.8		
9	51030006	2	Washer DIN 125-6		



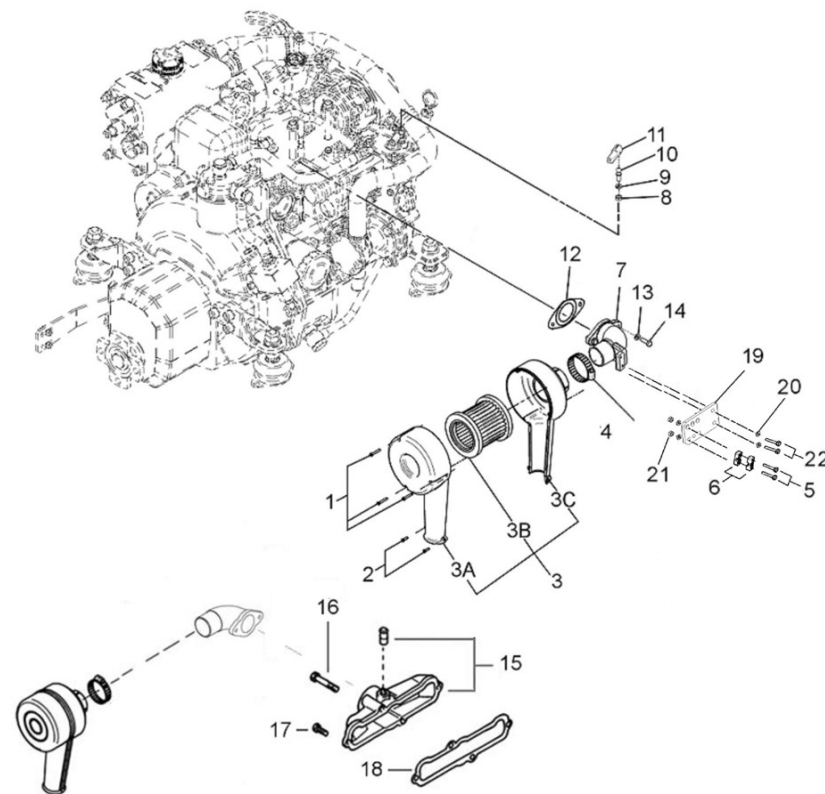
D_MIA3_1_12		Engine Brackets				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13810065	1	Left Front Bracket			
2	61638000	4	Engine Mount Type G 70 Kg M14 H 100			01/07/2020
2	61638005	4	Engine Mount Type G M14 H 34		01/07/2020	
3	52203308	4	Bolt DIN 912 M10-1,25-25 12.9 Blued		20/03/2023	
3	52203313	4	Bolt DIN 912 M10-1,25-50 12.9			20/03/2023
4	53033010	4	Washer GROWER DIN 127-10			
5	13810066	1	Right Front Bracket			



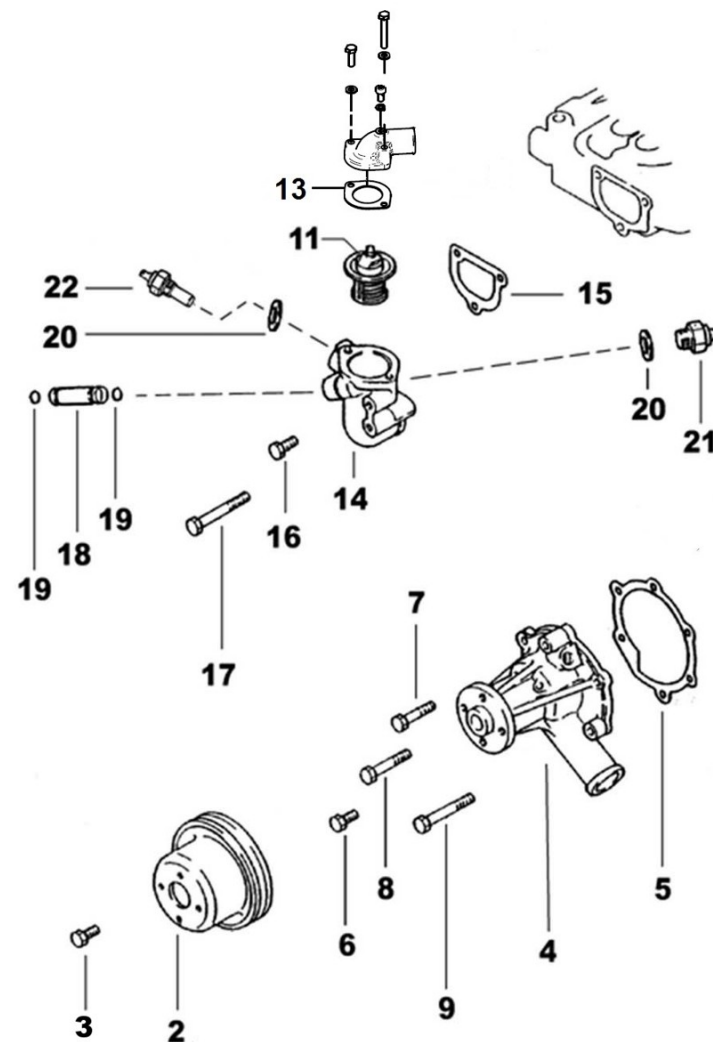
D_MIA3_1_15			Belt Protection			
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13810064	1	Belt Protection			
2	13810075	1	Spacer			
3	52111161	1	ROD DIN 913 M6-40 8.8			
4	52111158	1	ROD DIN 913 M6-25 8.8			
5	13810076	1	Spacer			
6	52111167	1	Rod DIN 913 M6-70 8.8			
7	13810077	1	Spacer			
8	13810247	3	Grip Knob M6			
9	17617006	3	Spacer 6,5X12X5			
10	13810078	1	Spacer 6.2x10x5			12/05/2022



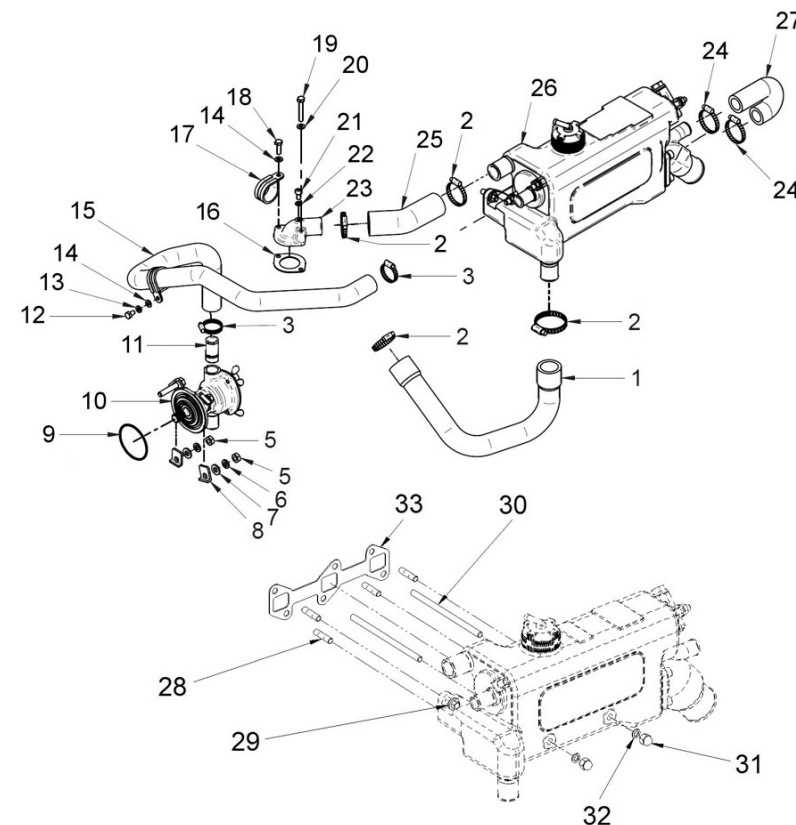
D_MIB3_2_1		Inlet				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	5491A007	3	Bolt PT 3x20 WN1412			
2	5491A004	2	Bolt PT 3x10 WN1413			
3	13810074	1	Air Filter		15/02/2017	
3A	13810072	1	Air Filter			
3B	13810073	1	Filter Element (Air Filter)			
3C	13810071	1	Air Filter			
4	54082032	1	Clamp DIN 3017 32-50/12 W4			
5	54102109	2	Bolt DIN 933 M5-25 INOX.		09/11/2022	
6	13819001	2	Half Flange Morse Cable			
7	17610027	1	Bend Filter Air			
8	52120006	1	Nut DIN 934 M6 8.8			
9	53033006	1	Washer GROWER DIN 127-6			
10	14419023	1	Ball JOINT			
11	15119015	1	CABLE Holder Ball			
12	17621042	1	Gasket			
13	53038006	2	Washer DIN 6798-A 6			
14	52102157	2	Bolt DIN 933 M6-20 8.8			
15	17621030	1	Cover Assy Intake			
16	13820042	2	Bolt			
17	52101162	2	Bolt DIN 931 M6-45 8.8			
18	17621032	1	Gasket Intake COV			
19	17610030	1	Bracket		18/04/2018	
20	51030005	2	Washer DIN 125-5		18/04/2018	
21	52120005	2	Nut DIN 934 M5 8.8		18/04/2018	09/11/2022
22	52102104	2	Bolt DIN 933 M5-10 8.8		18/04/2018	



D_MIB3_3_1		Water Pump			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
2	13921021	1	Pulley Water Pump		
3	52102155	4	Bolt DIN 933 M6-12 8.8		
4	13821020	1	Fresh Water Pump		
5	17621022.4	1	Gasket Water Pump		
6	52102157	2	Bolt DIN 933 M6-20 8.8		
7	52102160	1	Bolt DIN 933 M6-35 8.8		
8	52101162	1	Bolt DIN 931 M6-45 8.8		
9	52102164	2	Bolt DIN 933 M6-55 8.8		
11	13821041	1	Thermostat 71°		
13	13821031	1	Gasket Water OutL		
14	13821037.1	1	FITTING Thermostat New		
15	13821033	1	Gasket Thermostat	25/03/2020	
15	17621033.4	1	Gasket Thermostat		25/03/2020
16	52102158	2	Bolt DIN 933 M6-25 8.8		
17	52101165	1	Bolt DIN 931 M6-60 8.8		
18	17621026.4	1	Pipe BYPASS		
19	13821038	2	O-Ring D. 9X2		
20	56000073	1	Copper Washer 16-23-1,5		
21	60900070	1	Thermo-Switch 97°C		
22	60900980	1	Temperature Sensor		

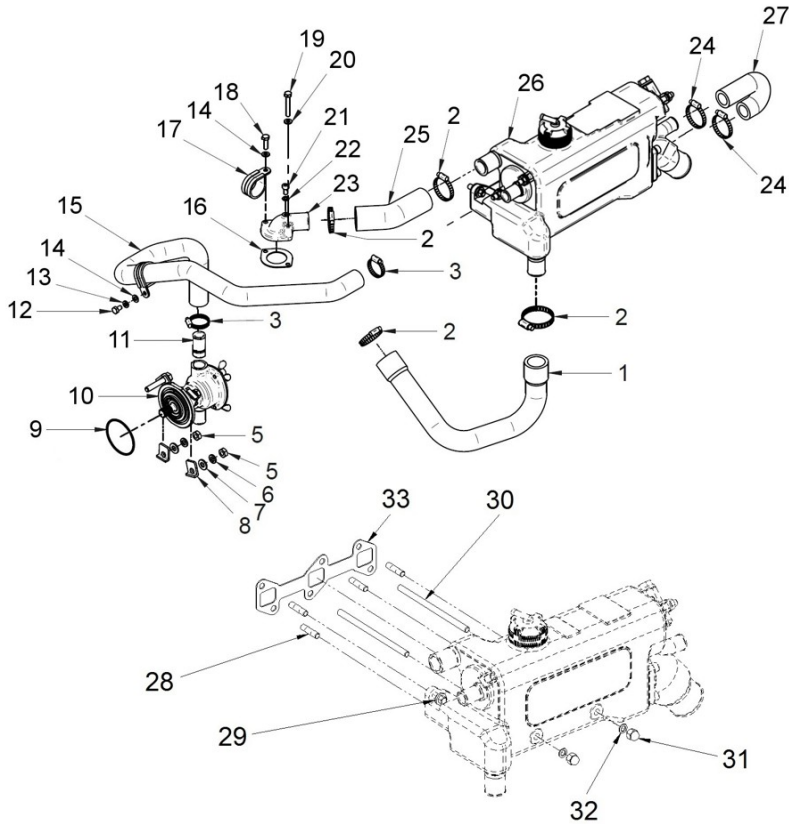


D_MIB3_3_2		Cooler Pipes				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13811030	1	Sleeve Rubber			
2	54081025	4	Clamp DIN 3017 25-40/9 W4			
3	54081016	2	Clamp DIN 3017 16-27/9 W4			
5	52120008	4	Nut DIN 934 M8 8.8			
6	53033008	4	Washer GROWER DIN 127-8			
7	51030008	4	Washer DIN 125-8			
8	13811062	4	Pump Bracket			
9	17011007	1	O-Ring D. 57X3			
10	37611000	1	Splined Pump 1/2" MINI-11/17/29/33/44			
11	13811033	2	Raccord 1/2"			
12	52102155	1	Bolt DIN 933 M6-12 8.8			
13	53033006	1	Washer GROWER DIN 127-6			
14	51030006	2	Washer DIN 125-6			
15	13811028	1	Sleeve Rubber			
16	13821031	1	Gasket Water OutL			
17	59071304	2	Clamp RSGU 1 30/15 W1			
18	52102158	1	Bolt DIN 933 M6-25 8.8			
19	52102161	1	Bolt DIN 933 M6-40 8.8			
20	53038006	1	Washer DIN 6798-A 6			
21	13811035	1	Bolt,bleed			
22	56000053	1	Washer 6-10-1,5			
23	13811031	1	Cover			
24	54081020	2	Clamp DIN 3017 20-32/9 W4			
25	13811029	4	Sleeve Rubber			
26	17611005R	1	Water Cooler Assy MINI-29 v6			
27	13811032	1	Elbow			
28	14711008	4	Stud,cover			
29	51125008	4	Nut Exhaust			
30	17211015	2	MANIFOLD MOUNTING Stud			
31	55122008	2	Nut DIN 1587 M8			
32	56000057	2	Washer 8-13-1,5			



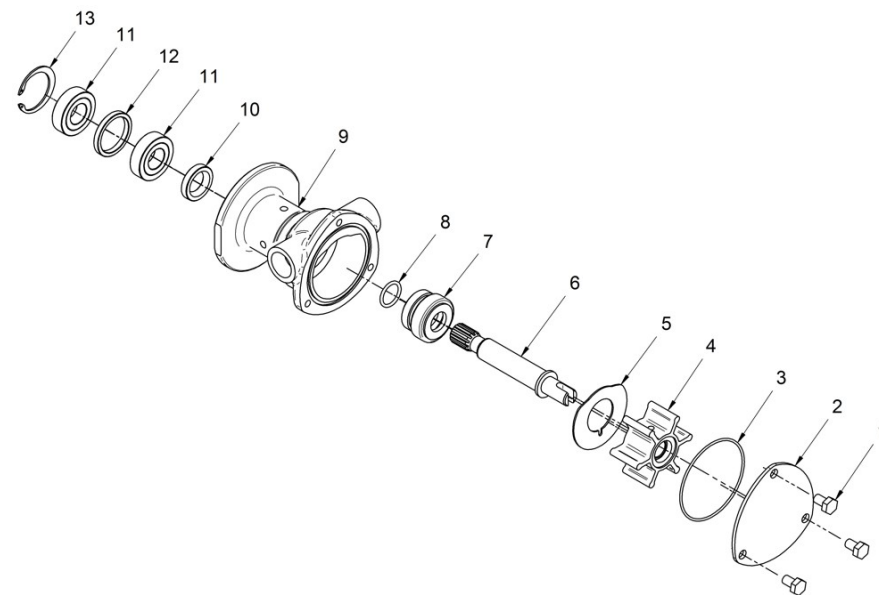
D_MIB3_3_2 Cooler Pipes

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
33	17621035	1	Gasket, Exhaust			

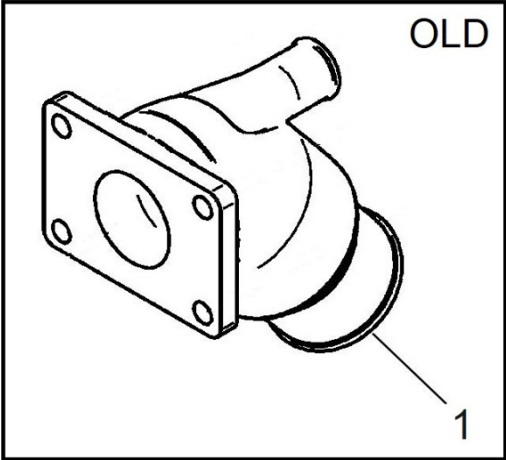
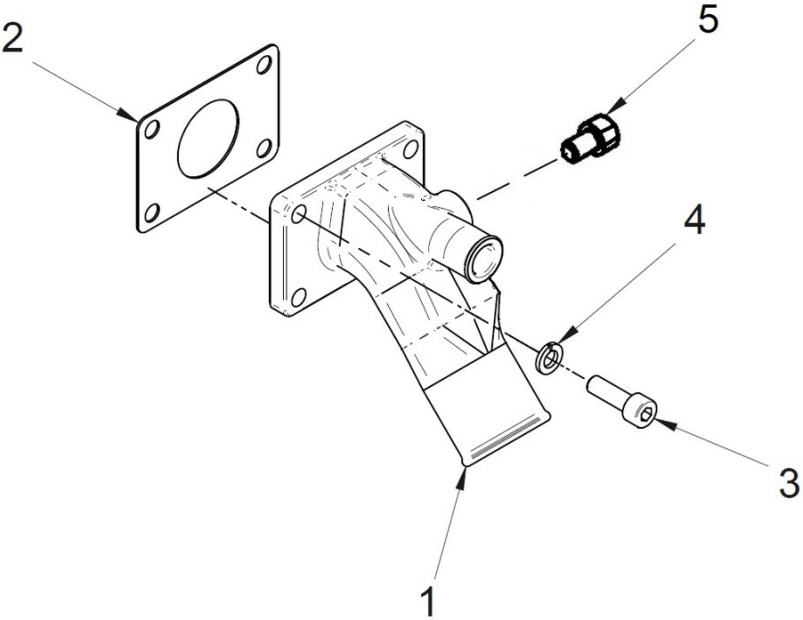


37611000 Splined Pump 1/2" MINI-11/17/29/33/44

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	54102154	3	Bolt DIN 933 M6-10 INOX			
2	37611002	1	Cover Pump			
3	37611003	1	O-Ring D. 57x1,5			01/06/2022
4	31211008	1	1/2" Impeller			
5	37611026	1	Plate, Friction			
6	33811010	1	Shaft, Water Pump			
7	33411019	1	Seal			
8	33311013	1	O-Ring D. 15X2			
9	37611001	1	Body, Water Pump 1/2"			
10	33411020	1	Seal			
11	33411014	2	Ball Bearing 6002-C3			
12	33811015	1	Spacer			
13	53041032	1	CIRClip DIN 472 I-32			

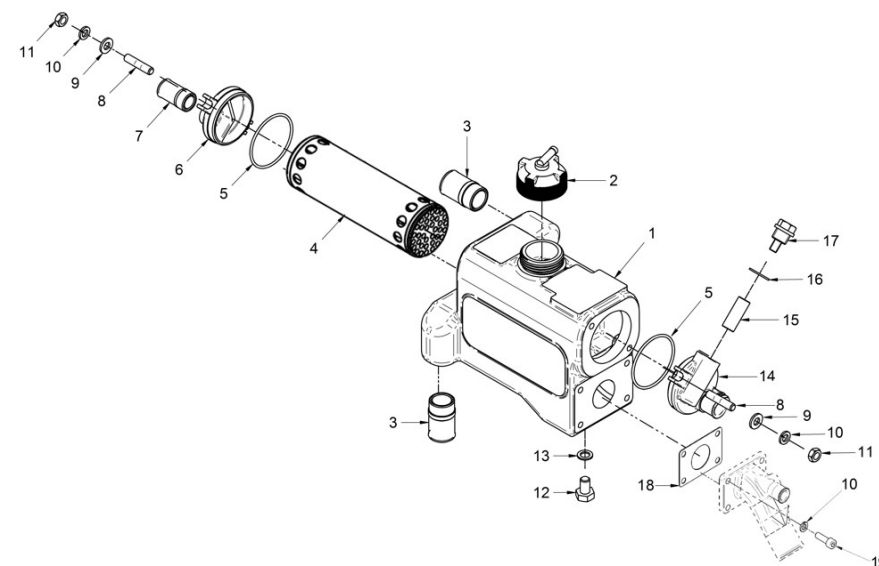


D_MIB1_3_5		Wet Exhaust				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17613015	1	Elbow,WET Exhaust		15/06/2016	13/04/2023
1	17613016	1	Elbow,WET Exhaust		13/04/2023	
2	17613014	1	Gasket		15/06/2016	
3	52103257	4	Bolt DIN 912 M8-20 8.8		15/06/2016	
4	53033008	4	Washer GROWER DIN 127-8		15/06/2016	
5	55102405	1	Bolt DIN 933 M14-1,50-12 Brass		26/04/2024	

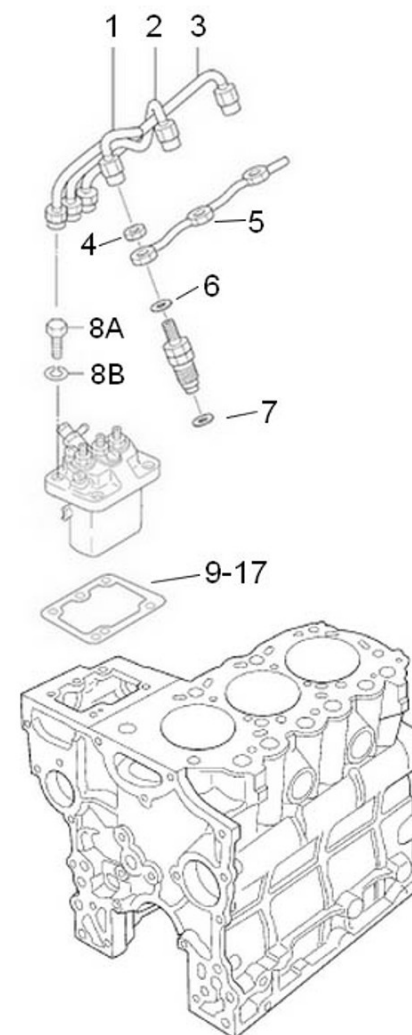


D_17611005R Water Cooler Assy MINI-29 V6

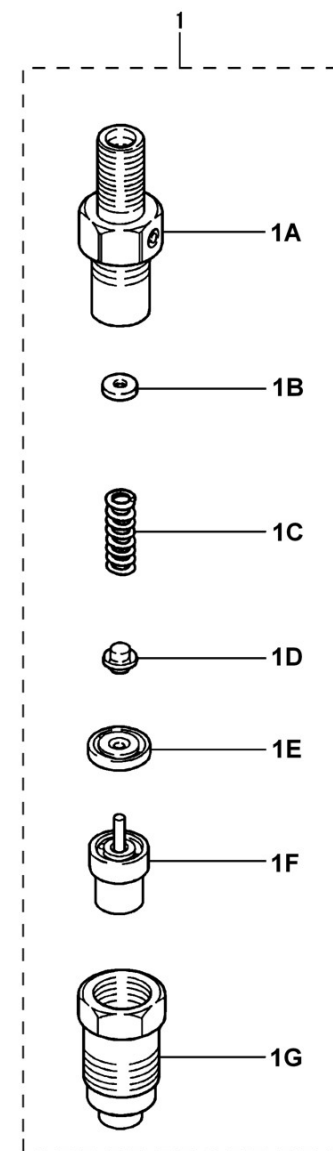
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17611006	1	Body, Water Cooler MINI-29 v6			
2	13811010	1	Cap			
3	13811034	2	Raccord 3/4"			
4	17211004	1	Tubular Bundle			
5	13811007	2	O-Ring D. 57X2,5			
6	13811002	1	Water Cooler Cover			
7	13811033	1	Raccord 1/2"			
8	13311006	4	Stud,cover			
9	51030008	4	Washer DIN 125-8			
10	53033008	8	Washer GROWER DIN 127-8			
11	54120008	4	Nut DIN 934 M8			
12	54102306	1	Bolt DIN 933 M10-16 INOX.			
13	56000061	1	Washer 10-16-1,5			
14	13811042	1	Water Cooler Cover			
15	13811043	1	Engine Anode 29.5 mm M.8			
16	56000073	1	Copper Washer 16-23-1,5			
17	18011009	1	Anode Plug			
NS	17611040	1	MINI-29 Cooler Adhesive			



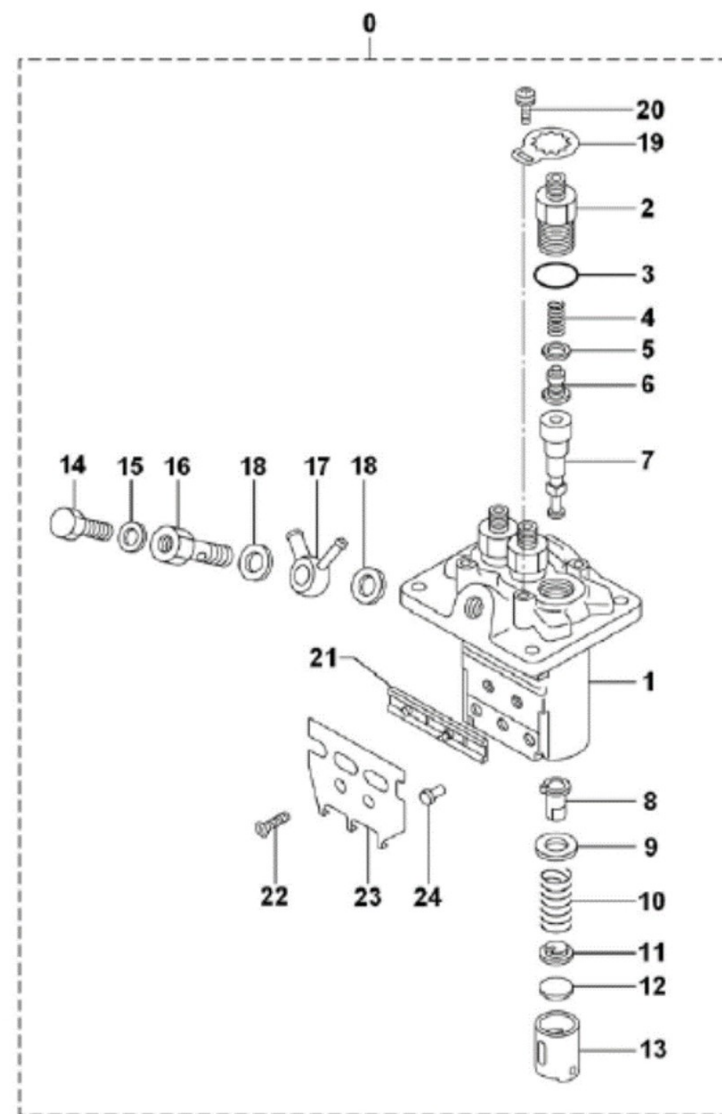
D_MIB1_4_1		Fuel Pipe				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17624015.4	1	Pipe Injection N.1			
2	17624016.4	1	Pipe Injection N.2			
3	17624019.4	1	Pipe Injection N.3			
4	17624024.4	3	Nut			
5	13924026	1	Tube gasoil SPILL			
6	13824025	3	Injector Gasket			
7	13824013	3	Injector Washer			
8A	52102157	4	Bolt DIN 933 M6-20 8.8			
8B	53033006	4	Washer GROWER DIN 127-6			
9	17624005.4	0	Shim Adjusting T=0,5MM.	#		
10	17624003.4	0	Shim Adjusting T=0,2MM.	#		
11	17624004.4	0	Shim Adjusting T=0,3MM.	#		
12	17624006.4	0	Shim Adjusting T=0,4MM.	#		
13	17624007.4	0	Shim Adjusting T=0,6MM.	#		
14	17624008.4	0	Shim Adjusting T=0,7MM.	#		
15	17624009.4	0	Shim Adjusting T=0,8MM.	#		
16	17624010.4	0	Shim Adjusting T=0,9MM.	#		
17	17624011.4	0	Shim Adjusting T=1,0MM.	#		



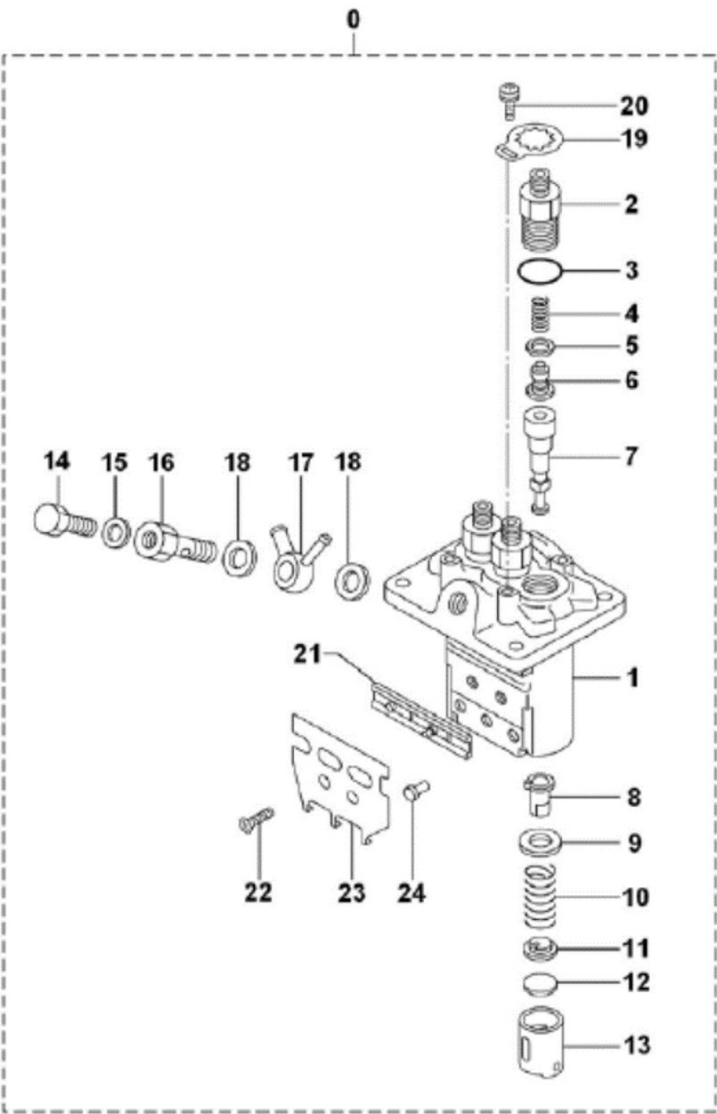
D_MIB1_4_2		Injection Nozzle				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17626001	3	Nozzle & Holder A			
1A	17620003	1	BODY SUB ASSY			
1BA	13826010	0	Washer 1,25	#		
1BB	13826011	0	Washer 1,30	#		
1BC	13826012	0	Washer 1,35	#		
1BD	13826013	0	Washer 1,40	#		
1BE	13826014	0	Washer 1,45	#		
1BF	13826015	0	Washer 1,50	#		
1BG	13826016	0	Washer 1,55	#		
1BH	13826017	0	Washer 1,60	#		
1BI	13826019	0	Washer 1,65	#		
1BJ	13826020	0	Washer 1,70	#		
1C	17126004	3	Spring, pressure			
1D	13826003	3	Pin Pressure			
1E	13826007	3	PIECE DISTANCE			
1F	17626018	3	Nozzle Assy			
1G	17226006	3	Nut, Nozzle RETAINING			



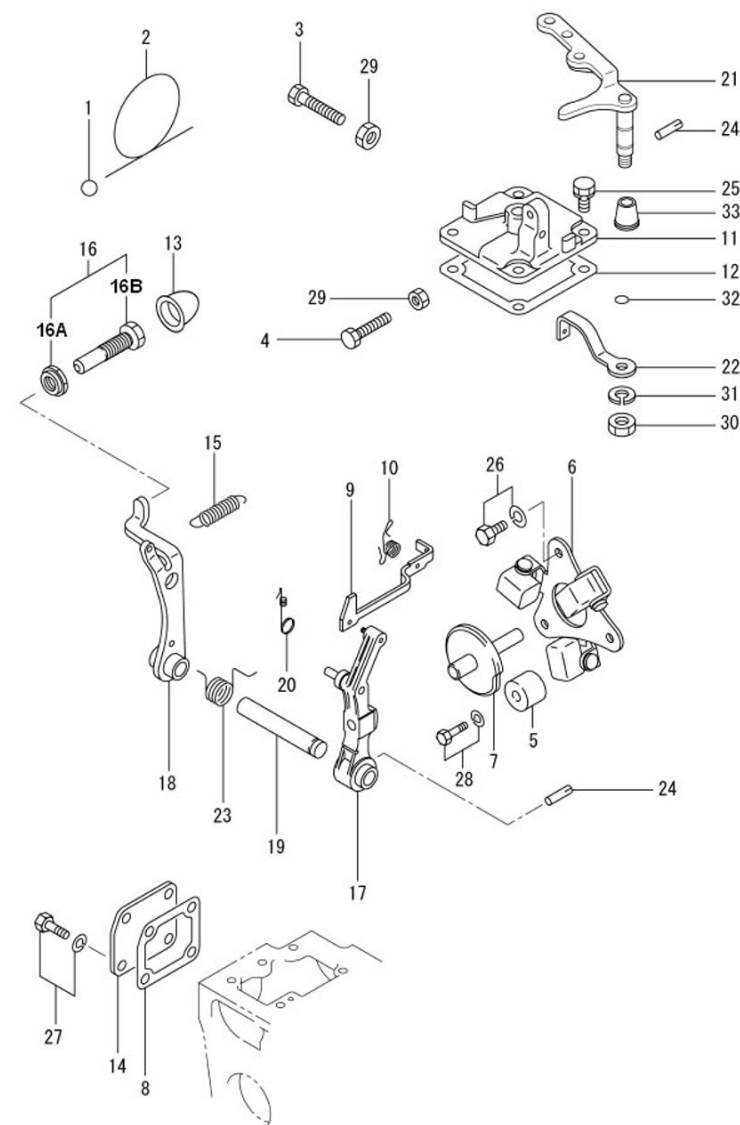
D_MIB2_4_3		Fuel Injection Pump				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
0	17625001.4	1	Pump Assy,Fuel Injection			
1	13925005	1	Housing SUB Assy			
2	17625004.4	3	Holder			
3	17625033.4	3	O-Ring			
4	13825002	3	Spring			
5	13125007	3	Gasket DELIVERY V			
6	17625008.4	3	Valve SUB Assy			
7	13825009	3	Element SUB Assy			
7	13925009G	3	Element SUB Assy			
8	13825010	3	SLEEVE SUB Assy			
9	13825011	3	Seat			
10	13825012	3	Spring			
11	13825013	3	Seat			
12A	13925015G	3	Plate Tappet Shim 1,85			
12B	13825016G	3	Plate Tappet Shim 1,90			
12C	13925017G	3	Plate Tappet Shim 1,95			
12D	13925018G	3	Plate Tappet Shim 2,00			
12E	13925019G	3	Plate Tappet Shim 2,05			
12F	13925020G	3	Plate Tappet Shim 2,10			
12G	13925021G	3	Plate Tappet Shim 2,15			
12H	13925022G	3	Plate Tappet Shim 2,20			
12I	13925023G	3	Plate Tappet Shim 2,25			
12J	13925024G	3	Plate Tappet Shim 2,30			
12K	13925025G	3	Plate Tappet Shim 2,35			
12L	13925026G	3	Plate Tappet Shim 2,40			
12M	13925027G	3	Plate Tappet Shim 2,45			
12N	13925028G	3	Plate Tappet Shim 2,50			
13	13825021	3	TAPPET Assy			
14	13825026	1	Screw Air			
15	13825025	1	Washer,DRAIN Screw			
16	13825027	1	Screw HOLLOW			



D_MIB2_4_3		Fuel Injection Pump				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
17	17325029.3	1	Nipple Swivel			
18	13825061	2	Washer			
19	13825030	3	Plate Set			
20	13825028.1	3	Screw,W/Washer			
21	17625006.4	1	RACK Assy Control			
22	13825062	2	Screw			
23	13925063	1	Bracket Stop Wire			
24	13925034G	3	Pin Tappet Guide			

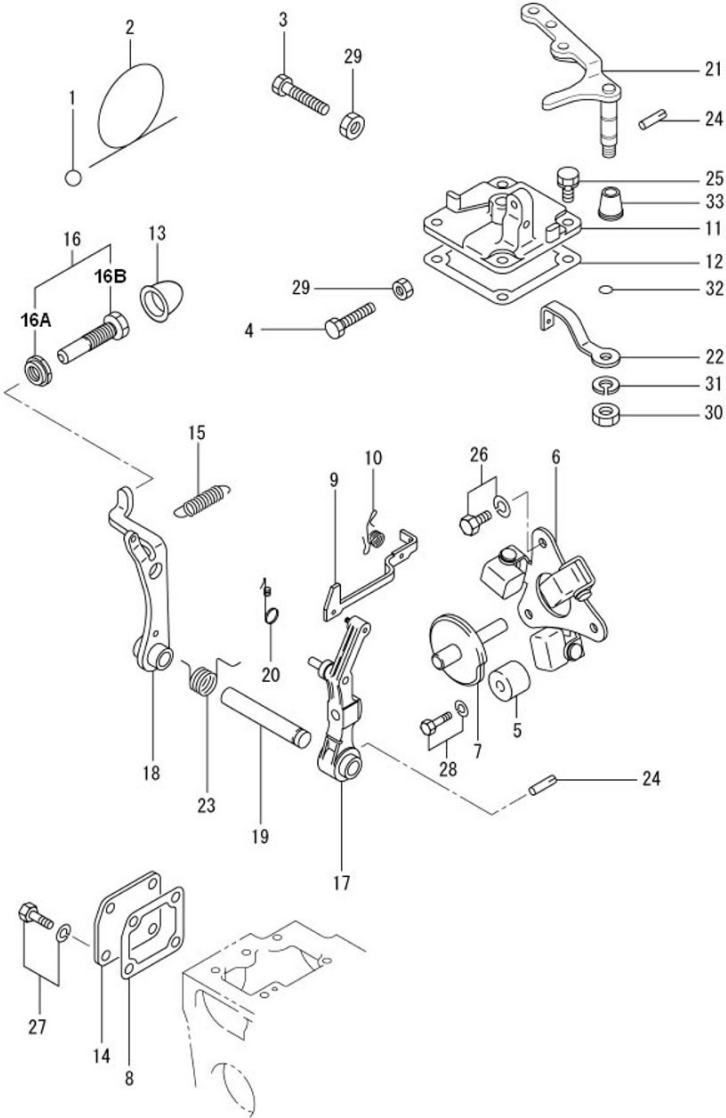


D_MIB1_4_4		Governor Parts			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17623020.4	1	Metal,Fuel		
2	17623019.4	1	Wire		
3	13123017	1	Bolt High Speed		
4	17223017.4	1	Bolt		
5	13723005	1	Stopper		
6	13823001	1	WEIGHT Assy,GOverNOR		
7	60530009	1	Shaft Assy,sliding		
8	17623014.4	1	Gasket TIE ROD CO		
9	13923005	1	ROD TIE		
10	13823028	1	Spring, Tie Rod		
11	17623032.4	1	Cover,Governor		
12	13823033	1	Gasket Governor Cover		
13	13823042	1	Cap TORQUE Set SE		
14	17623043.4	1	Cover TIE ROD		
15	13823015	1	Spring GOverNOR		
16A	17223035	1	Nut		
16B	13823034	1	RACK Set Screw (new)		
17	13823003	1	Lever Assy Governor		
18	13823007	1	Lever Assy TENSIO		
19	17623006.4	1	Shaft Governor		
20	13823044	1	Spring TIE ROD		
21	17623008.4	1	Lever Assy SPEED		
22	13823027	1	Lever Governor SP		
23	13823036	1	Spring START		
24	17623009.4	2	Pin GROOVED		
25	52102155	4	Bolt DIN 933 M6-12 8.8		
26	13223016	2	Bolt		
27	52102156	4	Bolt DIN 933 M6-16 8.8		
28	13823011	1	Bolt,W/Washer		
29	17223032	2	Nut		
30	17223030	1	Nut		

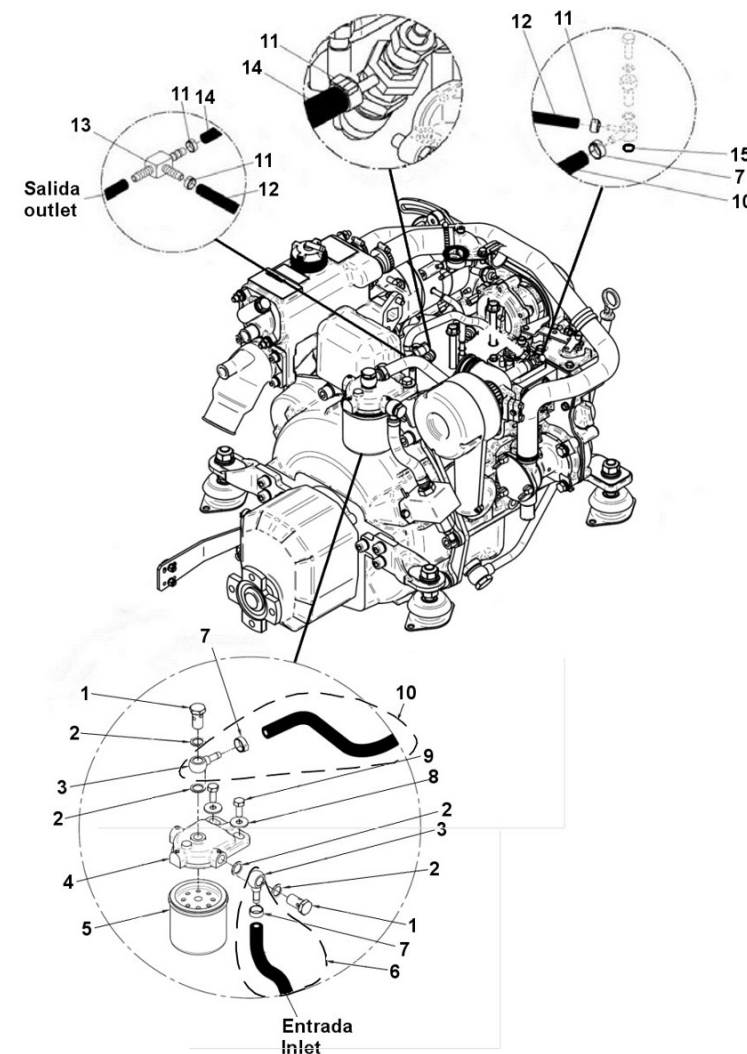


D_MIB1_4_4 Governor Parts

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
31	53033008	1	Washer GROWER DIN 127-8			
32	13123021	1	O-Ring D. 7X1.8			
33	17623045.4	1	Cover,Governor Shaft			

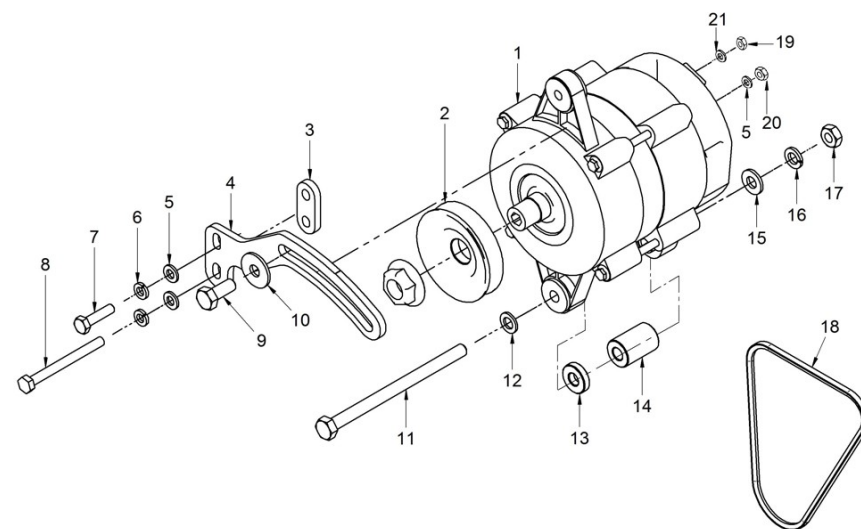


D_MIB3_4_5		Fuel Supply Parts			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	12814051	2	Screw,eye		
2	57000369	4	Washer 14,2-20-1,5		
3	17214012	2	COLLAR,Union		
4	13114020	1	Cover,filter		
5	13114022	1	Fuel Filter Element from MINI 10 to 55		
6	13814017.5	1	Fuel Pump Hose		
7	51086016	3	ONE EAR Clamp With INTERIOR Ring 14-16,3		
8	51031008	2	Washer DIN 9021 8		
9	52102257	2	Bolt DIN 933 M8-20 8.8		
10	17614029	1	Pipe		
11	51086010	4	One Ear Clamp With Interior Ring 10-11,5		
12	17614030	1	Pipe		
13	17614028	1	Bypass "T"		
14	17614026	1	0,04 M. Hose		
15	56000205	1	Washer 10-16-3		

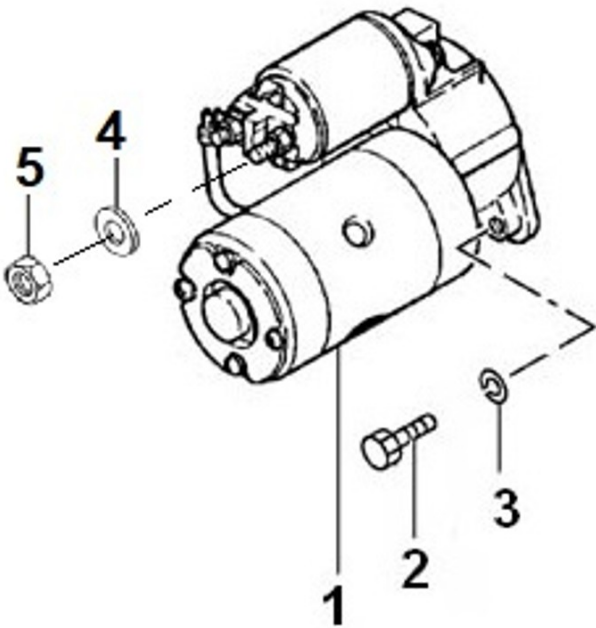


D_MIA3_5_1 Kit Alternator 14V/75A

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13817020	1	Alt. 14V/75A Mahle			
2	13817019	1	Pulley Alternator			04/03/2024
2	13817023	1	Pulley Alternator D.58		04/03/2024	
3	13817018	1	Spacer			
4	13817015	1	Plate			
5	51030006	3	Washer DIN 125-6			
6	53033006	2	Washer GROWER DIN 127-6			
7	52102158	1	Bolt DIN 933 M6-25 8.8			
8	52101166	1	Bolt DIN 931 M6-65 8.8			
9	52102257	1	Bolt DIN 933 M8-20 8.8			
10	51031008	1	Washer DIN 9021 8			
11	52101275	1	Bolt DIN 931 M8-120 8.8			
12	53038008	1	Washer DIN 6798-A 8			
13	17117002	1	Spacer 8,5X20X5			
14	13817118	1	Spacer 8,5x20x28			
15	51030008	1	Washer DIN 125-8			
16	53033008	1	Washer GROWER DIN 127-8			
17	52120008	1	Nut DIN 934 M8 8.8			
18	13821228	1	Belt Type SPZX 900		04/03/2024	
18	17617027	1	Belt Type SPZX 912			04/03/2024
19	52120005	1	Nut DIN 934 M5 8.8			
20	52120006	1	Nut DIN 934 M6 8.8			
21	51030005	1	Washer DIN 125-5			



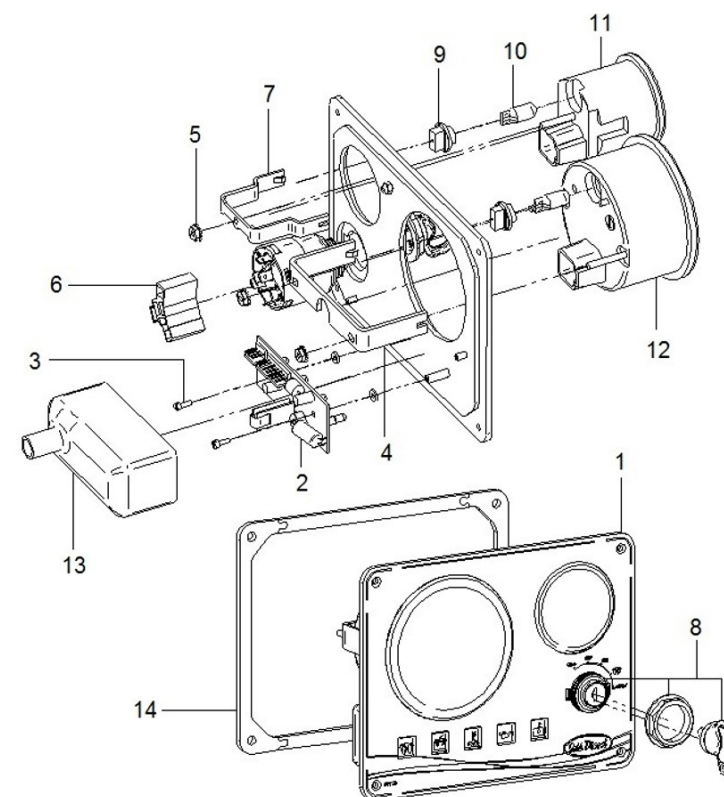
D_MIB1_5_5		Starter Assy 12V				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13827002	1	Starter Assy 12 V			
2	52102259	2	Bolt DIN 933 M8-30 8.8			
3	53033008	2	Washer GROWER DIN 127-8			
4	51030008	1	Washer DIN 125-8			
5	52120008	1	Nut DIN 934 M8 8.8			



D_MIB3_5_5			Electrical Wiring			
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13817003	1	Cover			
2	13827005	1	Glow Relay			
3	51030006	2	Washer DIN 125-6			
4	52102154	2	Bolt DIN 933 M6-10 8.8			
5	51030005	1	Washer DIN 125-5			
6	52102104	1	Bolt DIN 933 M5-10 8.8			
7	13817007	1	Rubber Cover			
8	53203358	2	Bolt DIN 912 M12-1,25-25 12.9		01/08/2017	
8	53203359	2	Bolt DIN 912 M12-1,25-30 12.9			31/07/2017
9	53033012	2	Washer Grower DIN 127-12			
10	13817006	1	Cover			
11	13817005	1	Relay 6V			
12	13817002	1	Support,relay			
14	17627017.4	3	Plug,glow			
15	13827018.4	1	Plate Glow Plug			
16	60934040	1	Wirine			
17	13824020	1	SOLENOID			08/04/2020
17	13824022	1	SOLENOID		08/04/2020	
18	13425029	1	Nut (old)			
19	60938204	1	Wiring,electrical MINI 17-26			
20	51031006	1	Washer DIN 9021 6			
21	60938130R	1	SVT 20 MINI-17/29 Panel (Repl.)			04/03/2024
22A	63938211NS	1	Panel SSG 20 MINI-17/29 ETS 12V Black		04/03/2024	
22B	63938211BS	1	Panel SSG 20 MINI-17/29 ETS 12V White		04/03/2024	
23A	63938311BS	1	Panel SSG 30 MINI-17/29 ETS 12V White		04/03/2024	
23B	63938311NS	1	Panel SSG 30 MINI-17/29 ETS 12V Black		04/03/2024	

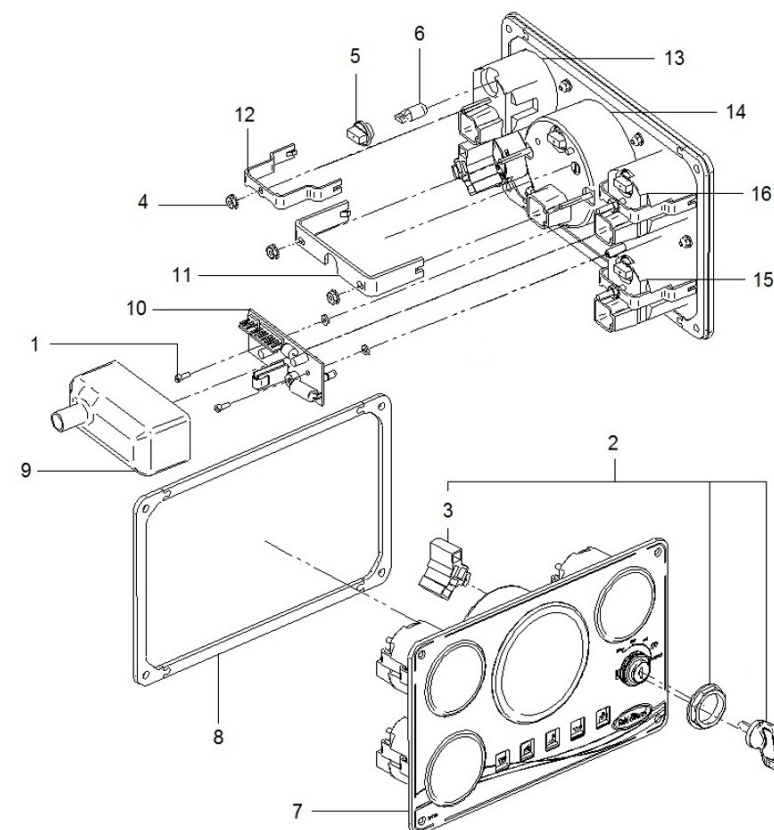
D_60938130 SVT 20 MINI-17/29 Panel

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	60938005.1	1	Panel N.2			
2	60900301.3	1	V3 C.I. 12V Prop. Engine Board.Varnished			
3	54108003	2	Bolt DIN 84 M3-8 INOX.			
4	60900910.1	1	Revolution Counter Fixing Bracket			
5	60900910.2	3	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	60938911	1	Revol. Counter VT 12V MINI-17/26			
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		12/07/2016	

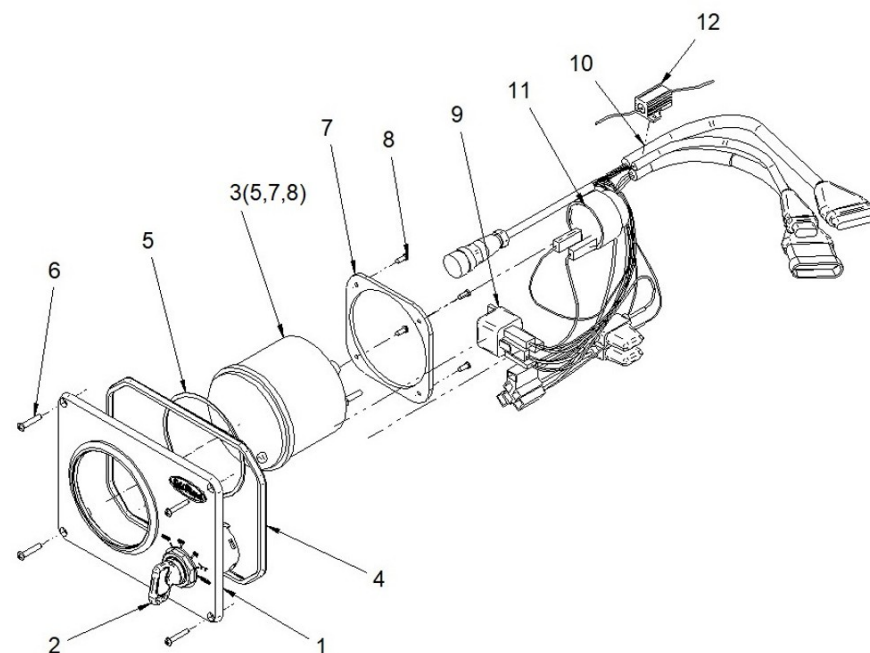


D_60938132 SVT 30 MINI-17/29 Panel

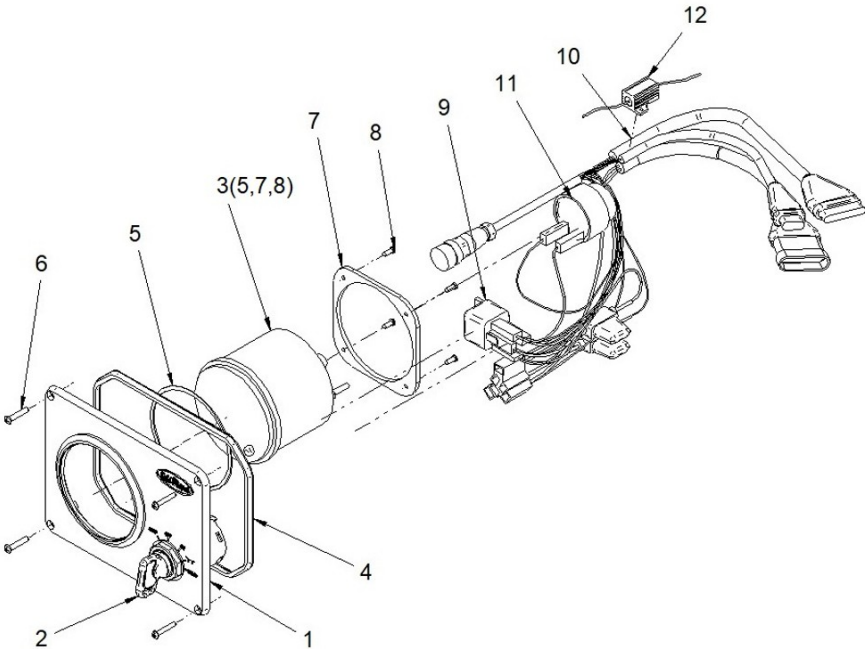
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	54108003	2	Bolt DIN 84 M3-8 INOX.			
2	60900037	1	Key-Locking			
3	60900037.2	1	Connector			
4	60900910.2	5	Fixing Nut Gauge+Terminal			
5	60900931	4	SOCKET,WEDGE BASE			
6	60900929	4	Bulb 12V			
7	60990005.1	1	Panel N.3			
8	60990006.1	1	Gasket Panel			
9	60900096	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	60938911	1	Revol. Counter VT 12V MINI-17/26			
15	60900937	1	Thermometer VT 12V			
16	60900939	1	Pressure Gauge VT 12V			
NS	60900091	1	MICRO Relay 12V 12-20			
NS	60910014	1	System Back Panel SVT/MVT 30 12V		07/12/2016	



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						

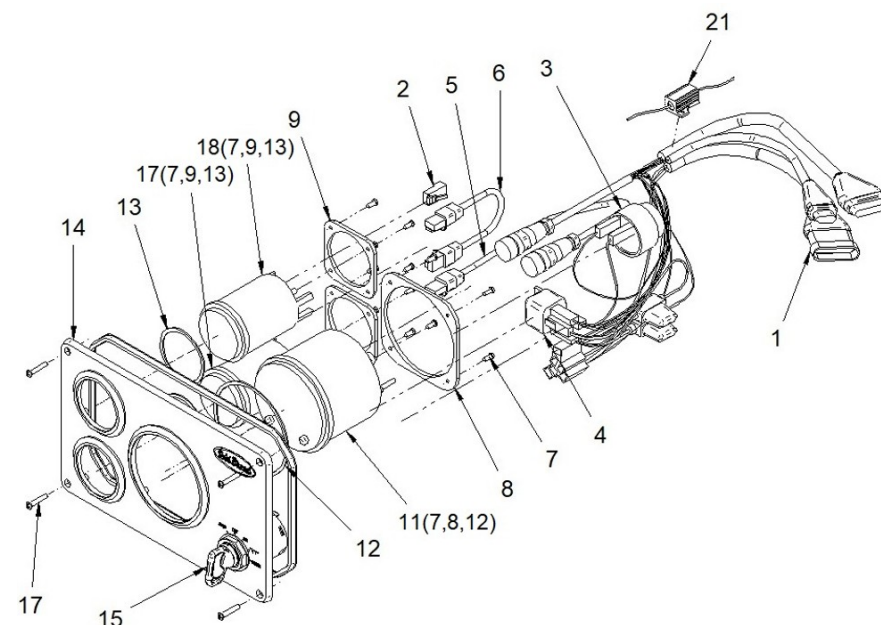


D_1631		Panel SSG 20 Spare Parts				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
13	63900040	1	Buzzer Bracket			
14	53033005	2	Washer GROWER DIN 127-5			
15	52120004	2	Nut DIN 934 M4 8.8			
NS	LLAVERO.1A	1	Floating Keyring Solé Diesel			

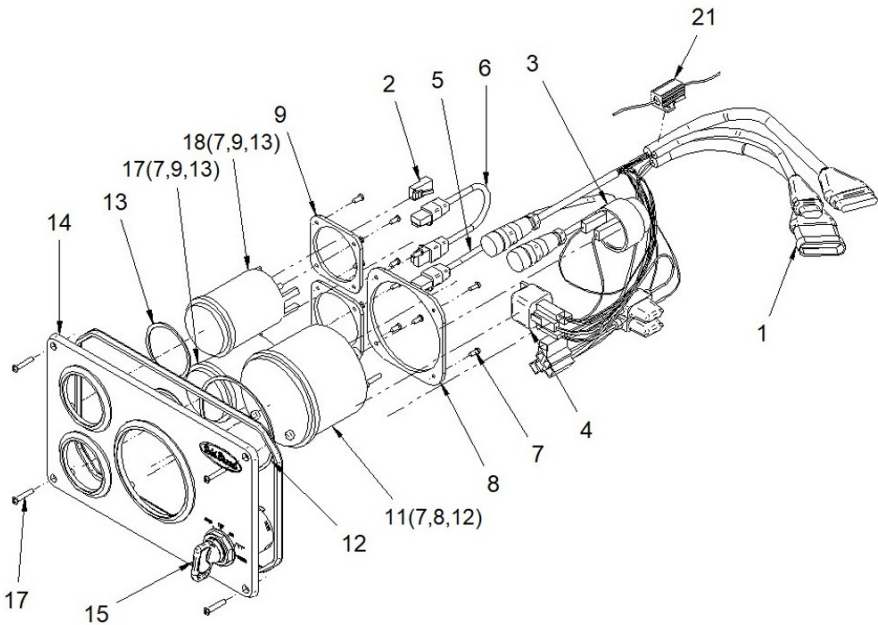


D_1633 Panel SSG 30 Spare Parts

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			



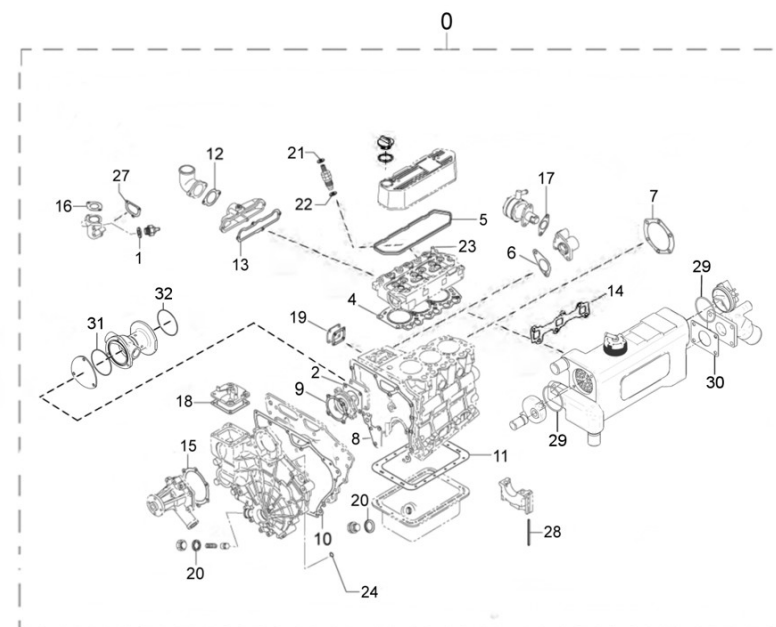
D_1633 Panel SSG 30 Spare Parts					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
17	51918057	4	Bolt DIN 7981 3,9-22		
18A	63900003BSR	1	Pressure Gauge SG Solé Master White		
18B	63900042NSR	1	Pressure Gauge SG Solé Master Black		
19A	63900002BSR	1	Temperature Gauge SG Solé Master White		
19B	63900041NSR	1	Temperature 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		



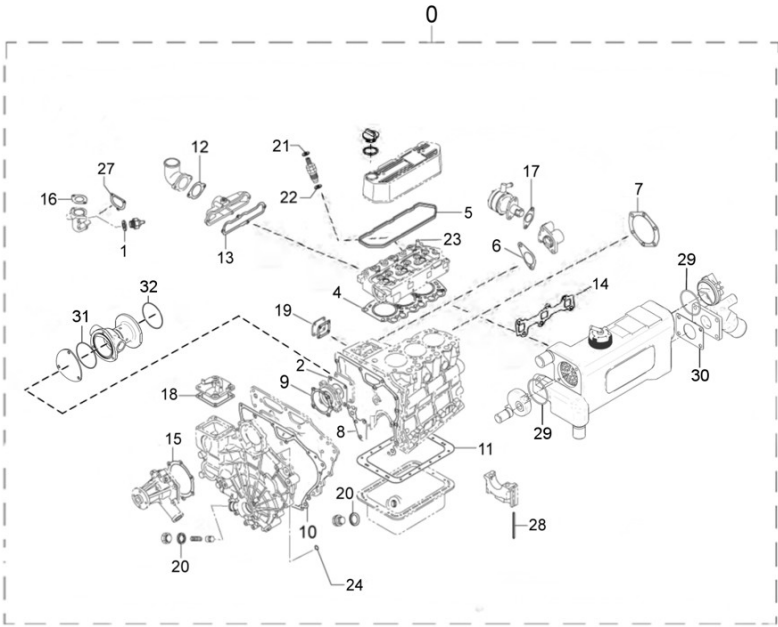
D_ALARPRO_1		Engine Extension				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1A	60938210.1	1	Engine Wiring Ext. 3 M. SUPERSEAL			
1B	60985210.1	1	Engine Wiring Ext. 4 M. SUPERSEAL			
1C	60938211	1	Engine Wiring Ext. 8 M. SUPERSEAL			
1D	60985210.12.1	1	Engine Wiring Ext. 12 M. SUPERSEAL			
1E	60985210.15.1	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			



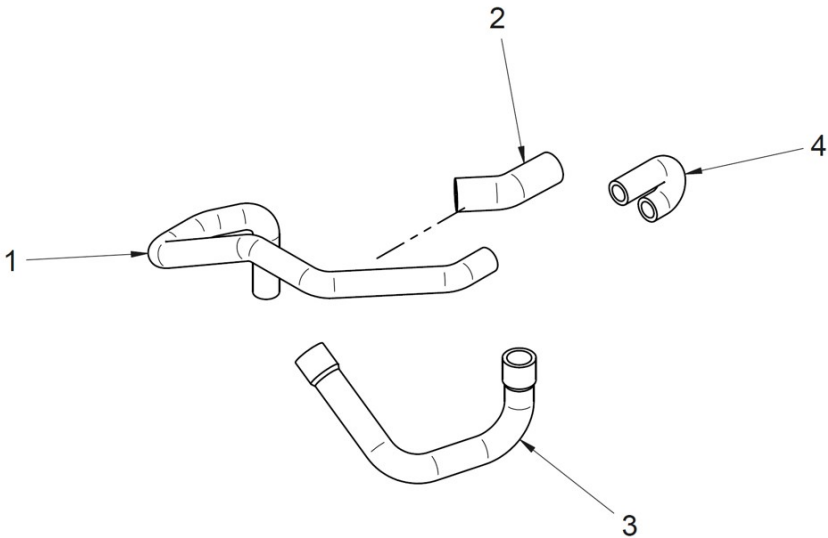
D_17620101.6 Kit Gasket					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
0	17620101.4	1	Kit Gasket		
1	MH594601601	1	Washer		
2	13120047	1	Gasket Water Pump		
4	17621004	1	Gasket,Cylinder Head		
5	17621010	1	Rocker Cover Gasket		
5	17621010.1	1	Rocker Cover Gasket		
6	17620012.4	1	Gasket Cover		
7	13820016	1	Gasket Oil Seal C		
8	13820018	1	Gasket Front Plate		
9	13820038	1	Gasket Housing		
10	13820040	1	Gasket Gear Case		
11	13820033.4	1	Gasket Oil PAN		
12	17621042	1	Gasket		
13	17621032	1	Gasket Intake COV		
14	17621043	1	Gasket		
15	13821022	1	Gasket Water Pump		
16	13821031	1	Gasket Water OutL		
18	13823033	1	Gasket Governor Cover		
19	13823014	1	Gasket Tie Rod CO		
20	56000077	2	Washer 18-23-1,5		
21	17424025G.1	3	Gasket Fuel Return (Genset)		
22	13824013	3	Injector Washer		
23	13222054	6	Seal Valve Stem		
24	13820044	2	O-Ring D. 11X2,5		
25	17624045	1	O-Ring		
26	17624048	1	O-Ring		
27	13821033	1	Gasket Thermostat	25/03/2020	
27	17621033.4	1	Gasket Thermostat		25/03/2020
28	13820002	4	Seal Side		
29	13811007	2	O-Ring D. 57X2,5		
30	17613014	1	Gasket		



D_17620101.6 Kit Gasket					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
31	37611003	1	O-Ring D. 57x1,5		01/06/2022
31	37611005	1	O-Ring D. 57X1,78		02/06/2022
32	17011007	1	O-Ring D. 57X3		



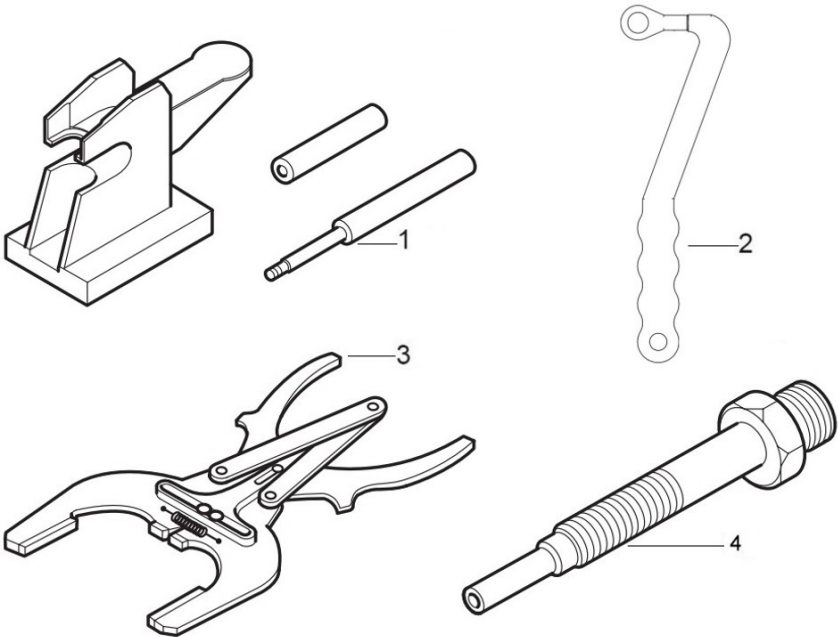
13811100.6 Pipe Rubber Set,water line 6 V.					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	13811028	1	Sleeve Rubber		
2	13811029	1	Sleeve Rubber		
3	13811030	1	Sleeve Rubber		
4	13811032	1	Elbow		



37611000K		Repair Kit Water Pump 1/2"				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	31211008	1	1/2" Impeller			
2	37611003	1	O-Ring D. 57x1,5			01/06/2022
2	37611005	1	O-Ring D. 57X1,78		02/06/2022	
3	33411020	1	Seal			
4	33411019	1	Seal			
5	33311013	1	O-Ring D. 15X2			
NS	17011007	1	O-Ring D. 57X3			

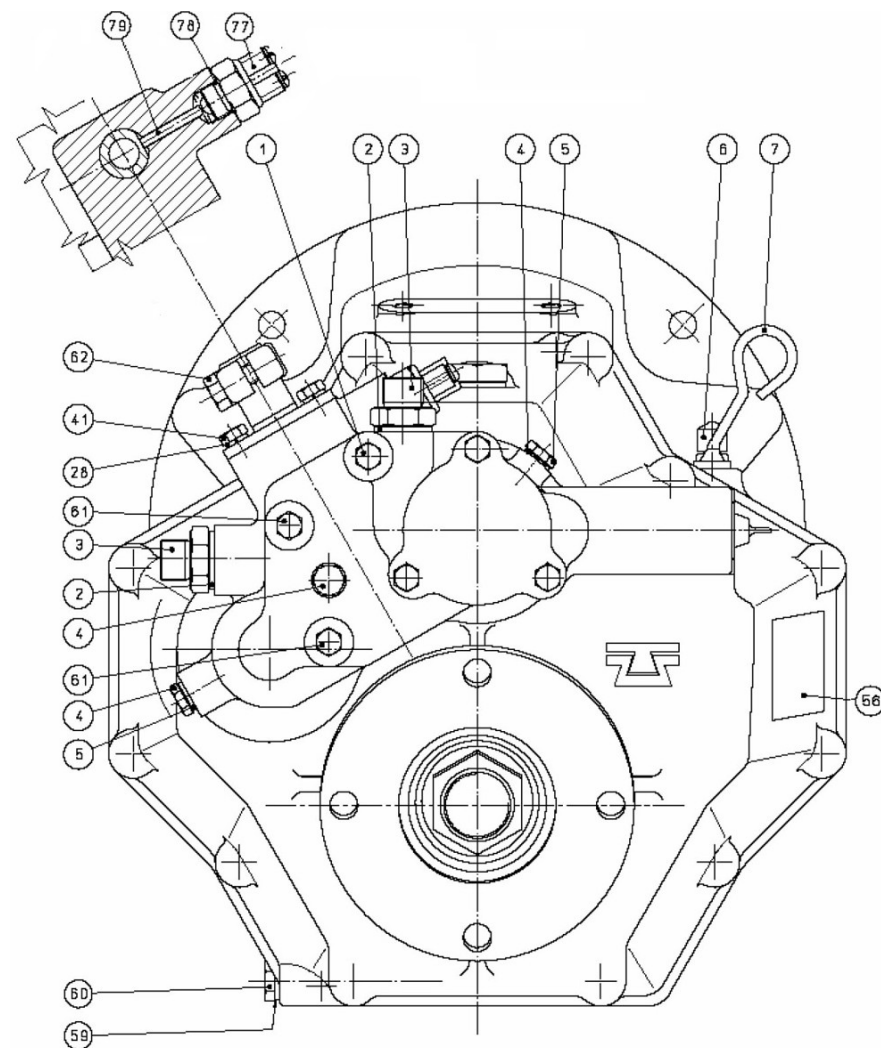


D_UTILFA0968_1		Special Tools				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	U30L9110010	1	Piston Pin Setting Tool			
2	13811063	1	Refrigerator Mounting Key			
3	UMM74007	1	Piston Ring Pliers			
4	UST332270	1	Compression Gauge Adapter			

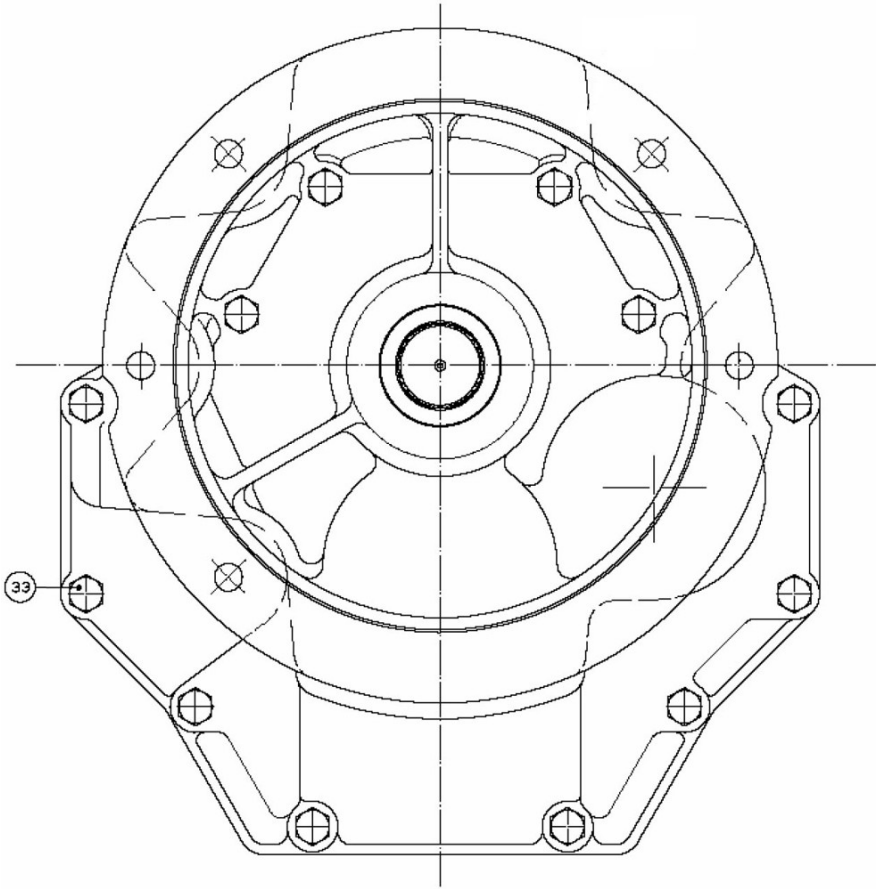


D_5024_1 Sheet 1/4

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			

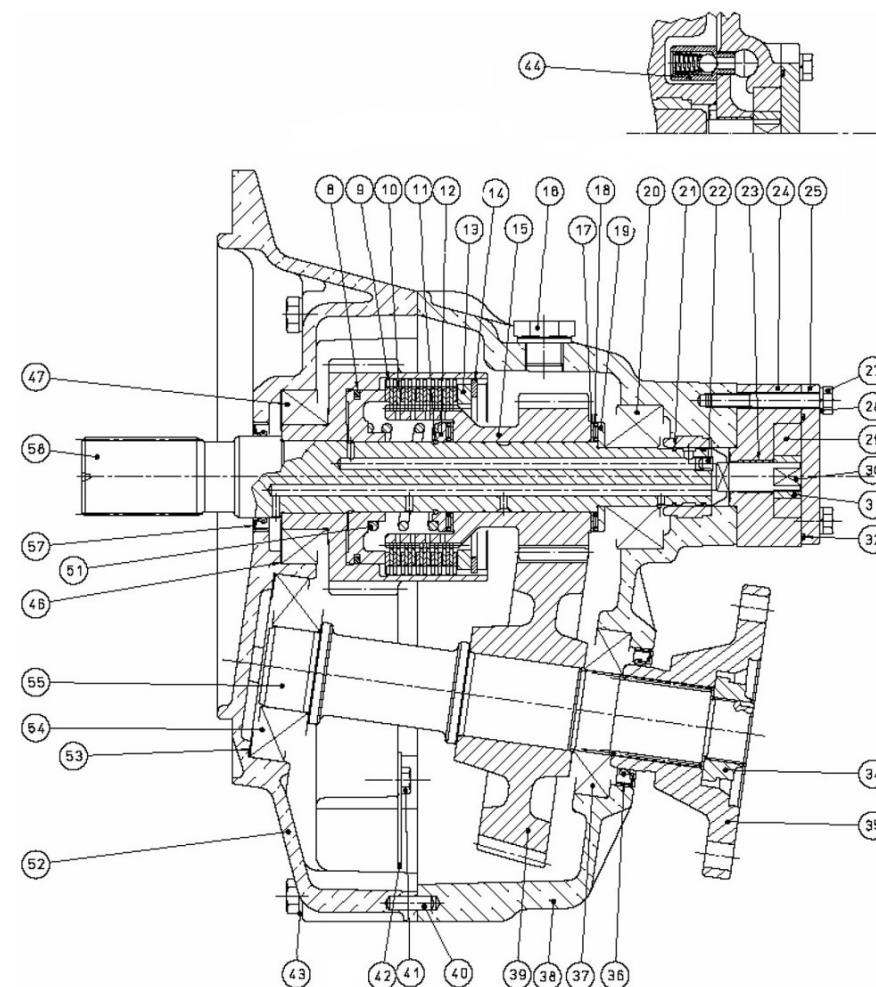


D_5024_2		Sheet 2/4			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
33	24830113	1	Screw		



D_5024_3 Sheet 3/4

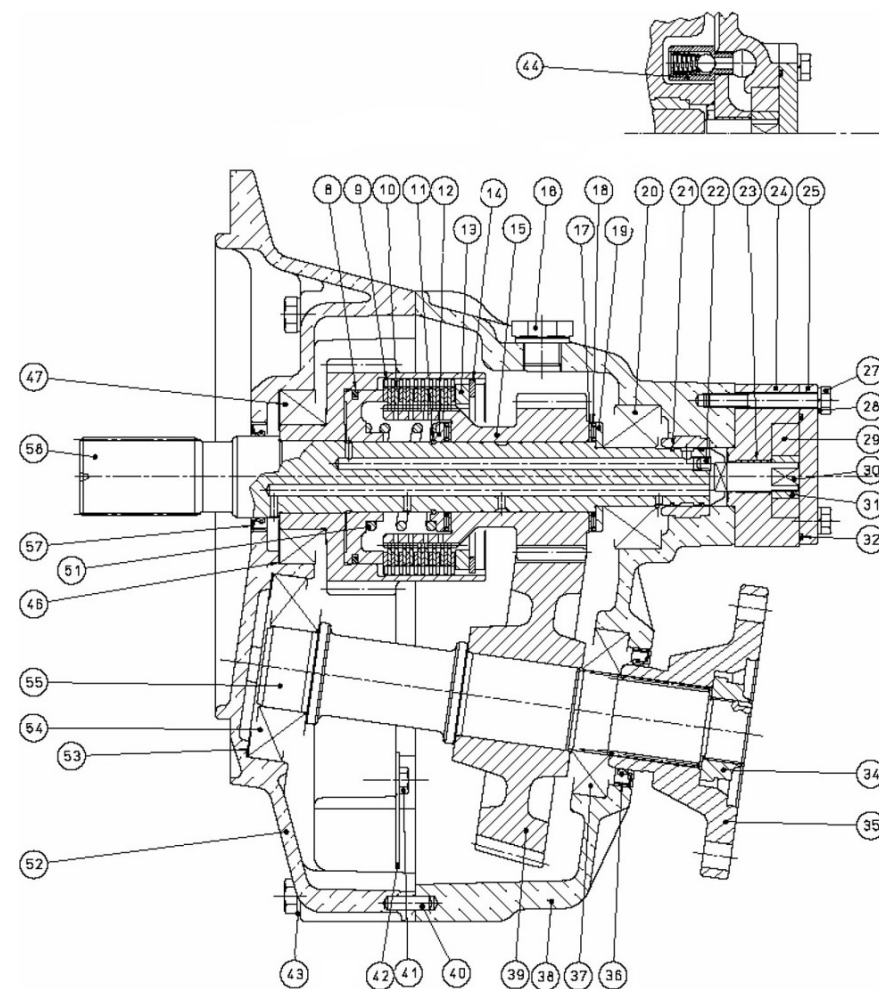
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24850323	2	Washer			
11	24850310	2	Ring			
12	24850307	2	Ring			
13	24850333	2	Spacer			
14	24850312	2	SEGER			
15A	24852203A	1	Gear R. 1,54 TM 345A			
15B	24853203A	1	Gear Red. 2 TM 345A			
15C	24854203A	1	Gear R. 2,47 TM 345A			
16	24850012	1	Plug			
17	24850318	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

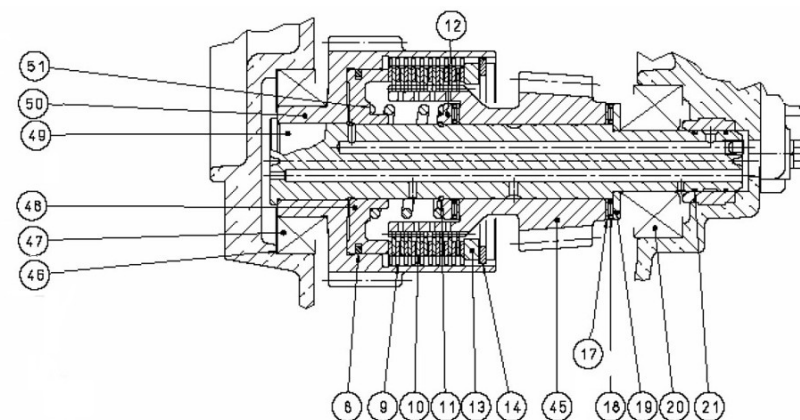
Sheet 3/4

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			

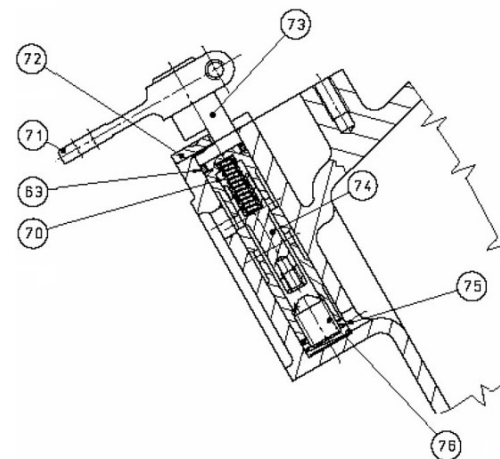


D_5024_4 Sheet 4/4

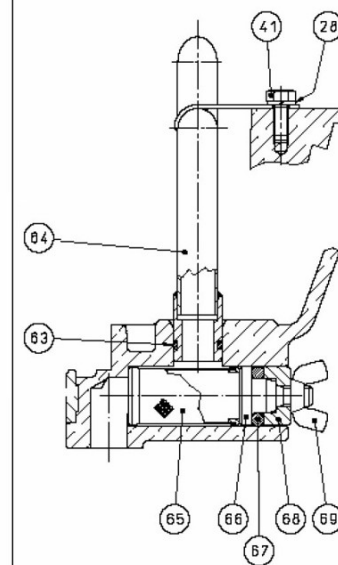
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
45A	24852302	1	Gear R. 1,54 TM 345A			
45B	24853302	1	Gear R. 2 TM 345A			
45C	24854302	1	Gear R. 2,47 TM 345A			
48	24850124	2	Piston			
49	24850301	1	INTERMEDIATE Shaft			
50	24850330	1	Bell			
63	24810045	2	O-Ring D. 15,08X2,62			
64	24850081	1	Aspiration Tube			
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

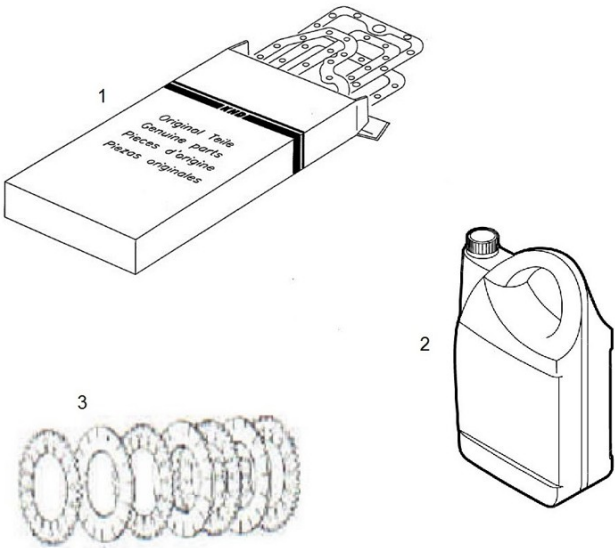


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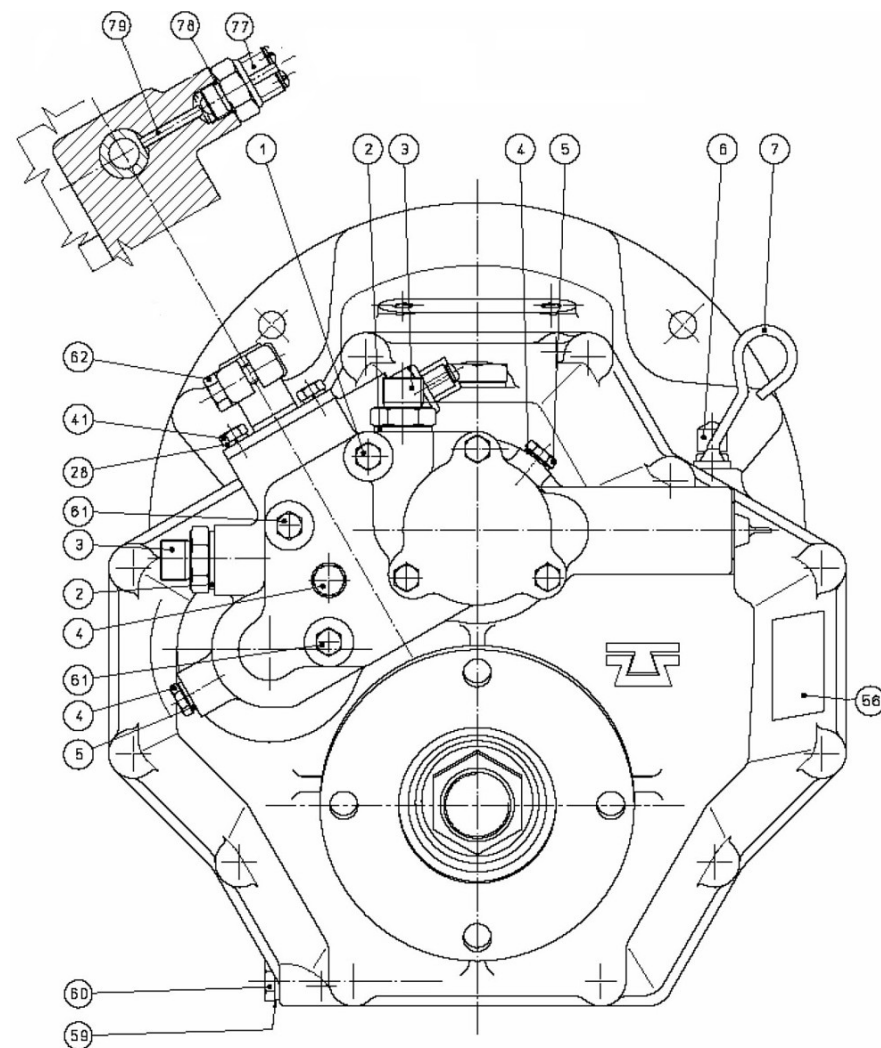
OIL FILTER ASSEMBLY

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			



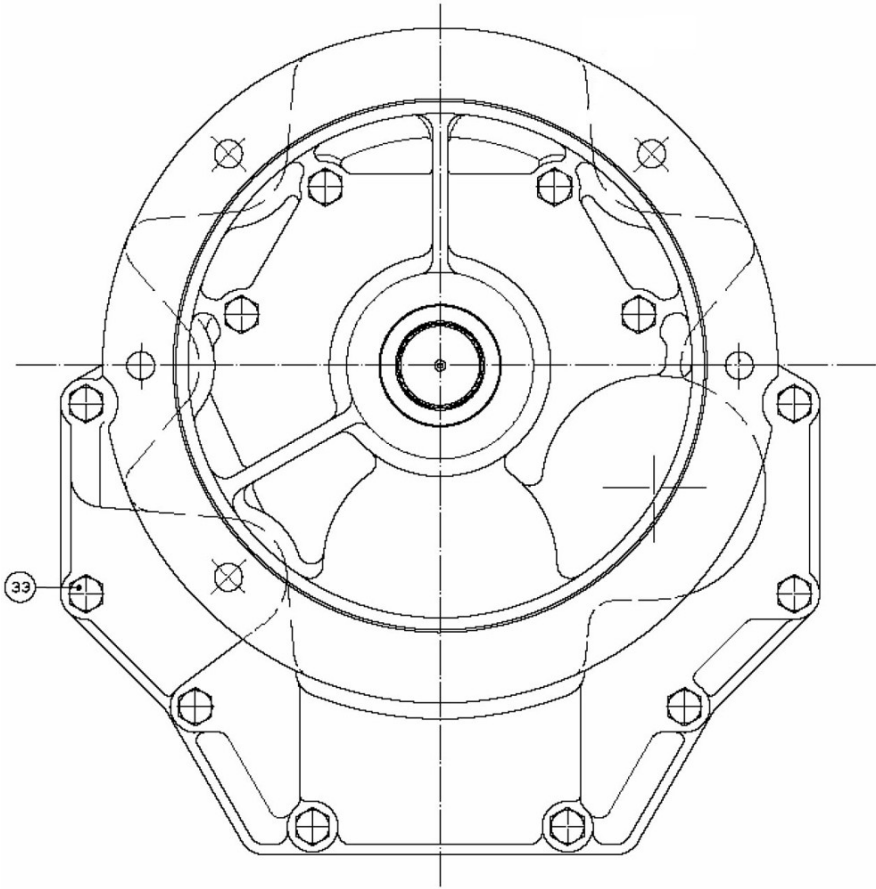
D_5023_1 Sheet 1/4

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			



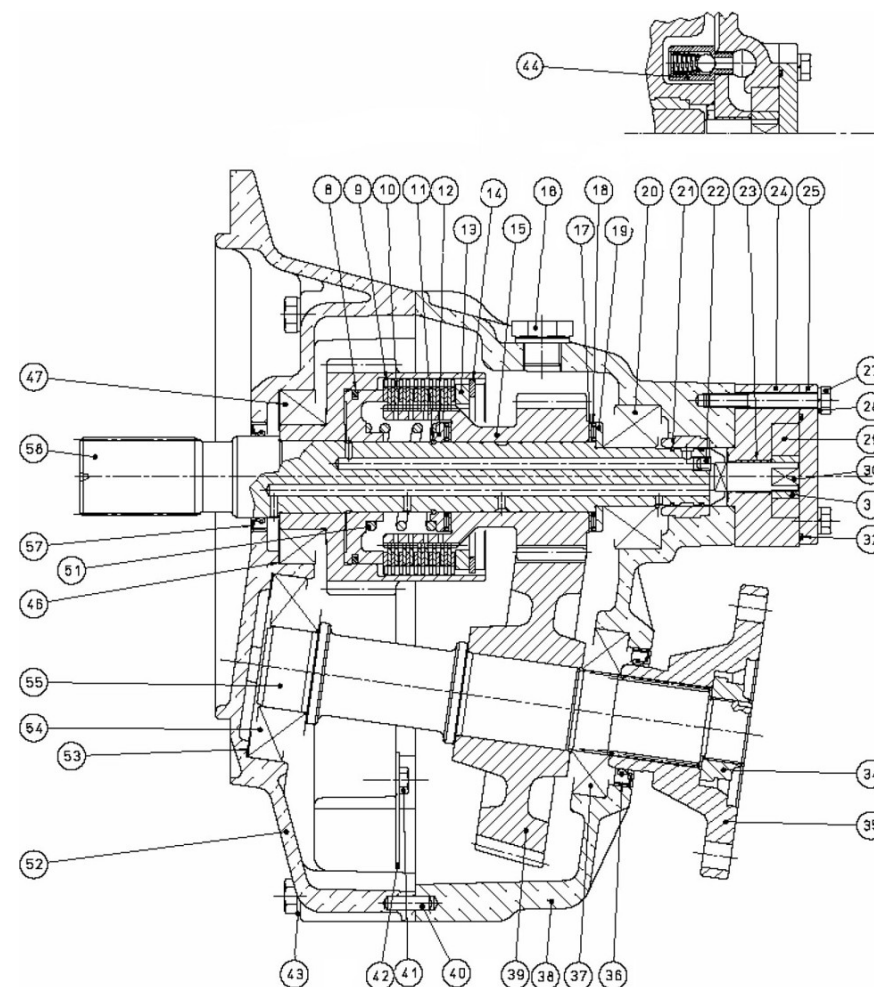
D_5023_2 Sheet 2/4

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



D_5023_3 Sheet 3/4

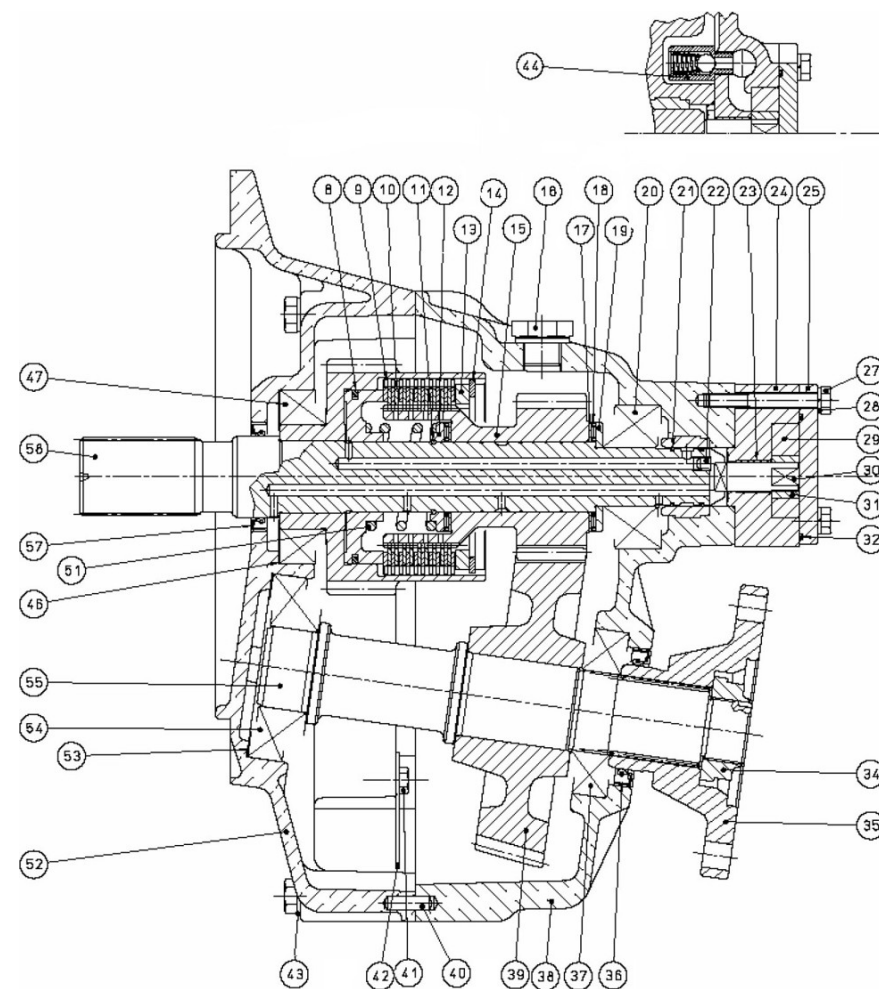
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24850323	2	Washer			
11	24850310	2	Ring			
12	24850307	2	Ring			
13	24850333	2	Spacer			
14	24850312	2	SEGER			
15A	24852203	1	Gear R. 1,54 TM 345			
15B	24853203	1	Gear R. 2 TM 345			
15C	24854203	1	Gear R. 2,47 TM 345			
16	24850012	1	Plug			
17	24850318	4	Ring			
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

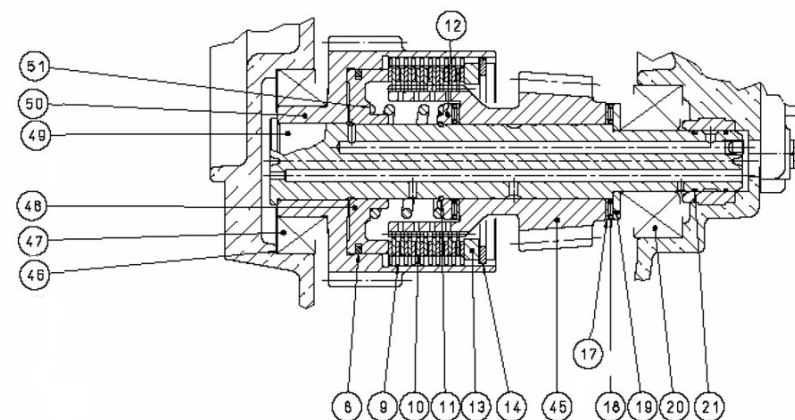
Sheet 3/4

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			

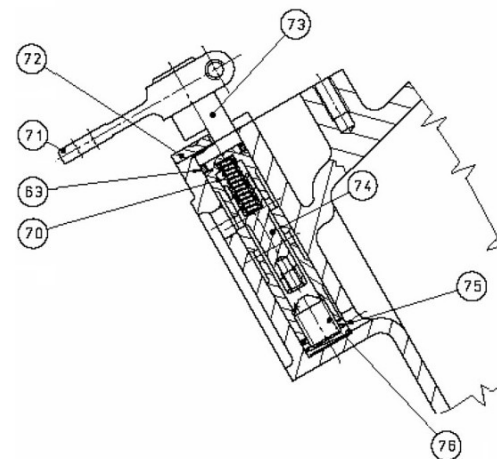


D_5023_4 Sheet 4/4

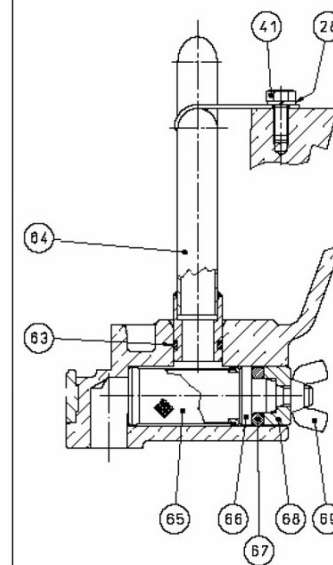
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
45A	24852203	1	Gear R. 1,54 TM 345			
45B	24853203	1	Gear R. 2 TM 345			
45C	24854203	1	Gear R. 2,47 TM 345			
48	24850124	2	Piston			
49	24850301	1	INTERMEDIATE Shaft			
50	24850330	1	Bell			
63	24810045	2	O-Ring D. 15,08X2,62			
64	24850081	1	Aspiration Tube			
65	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

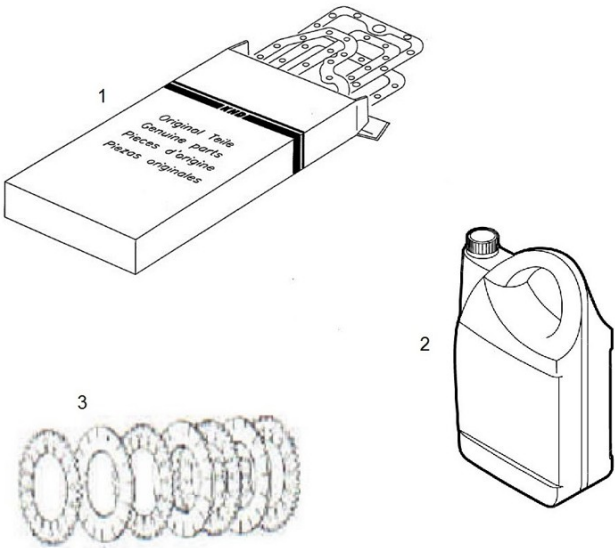


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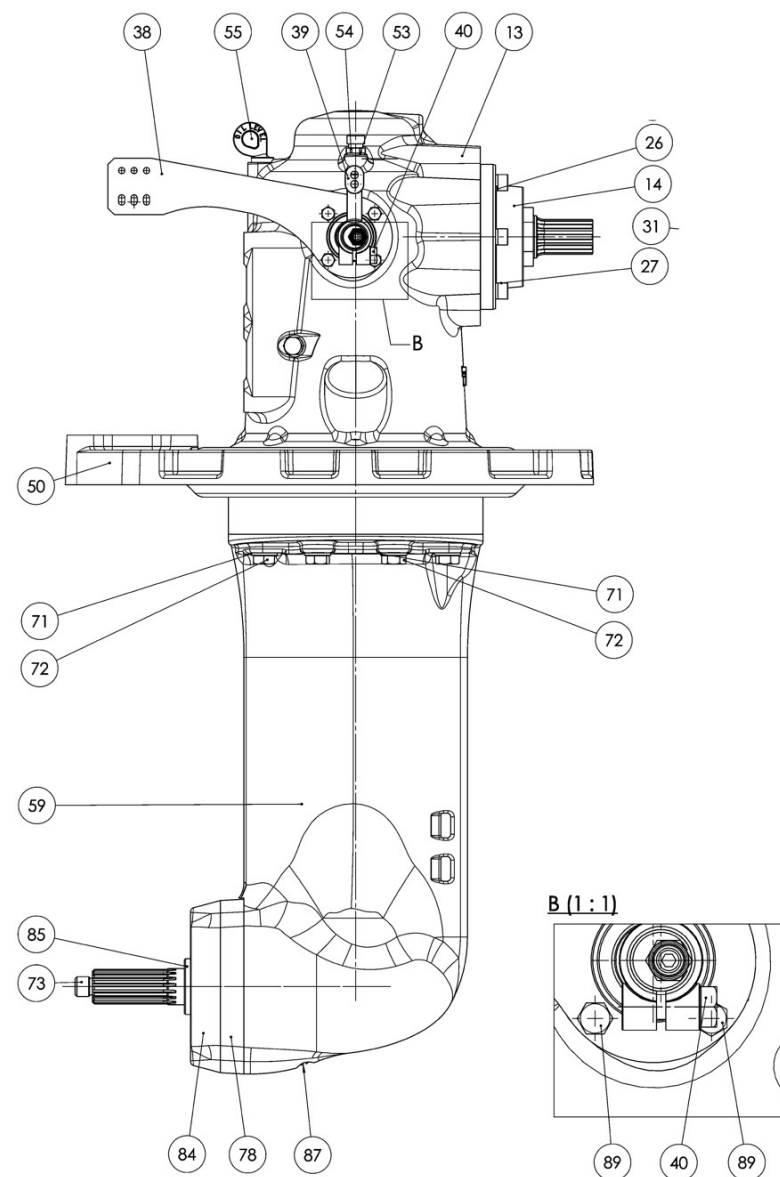
OIL FILTER ASSEMBLY

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			



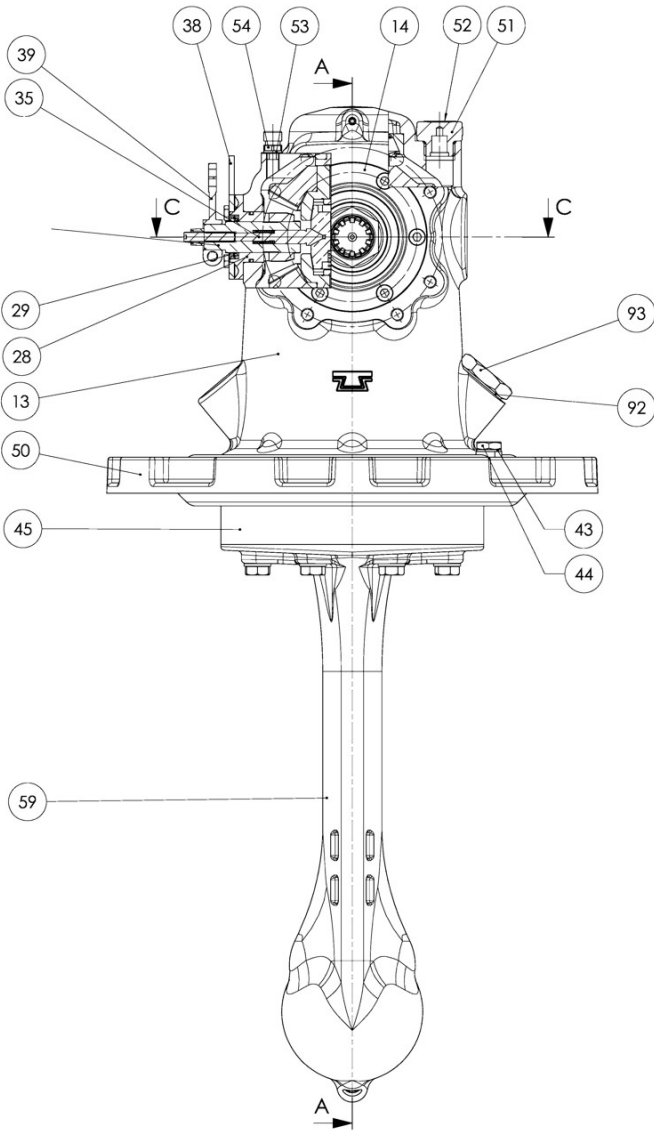
D_5037_1 Sheet 1/4 SP60 S.Drive V1

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			



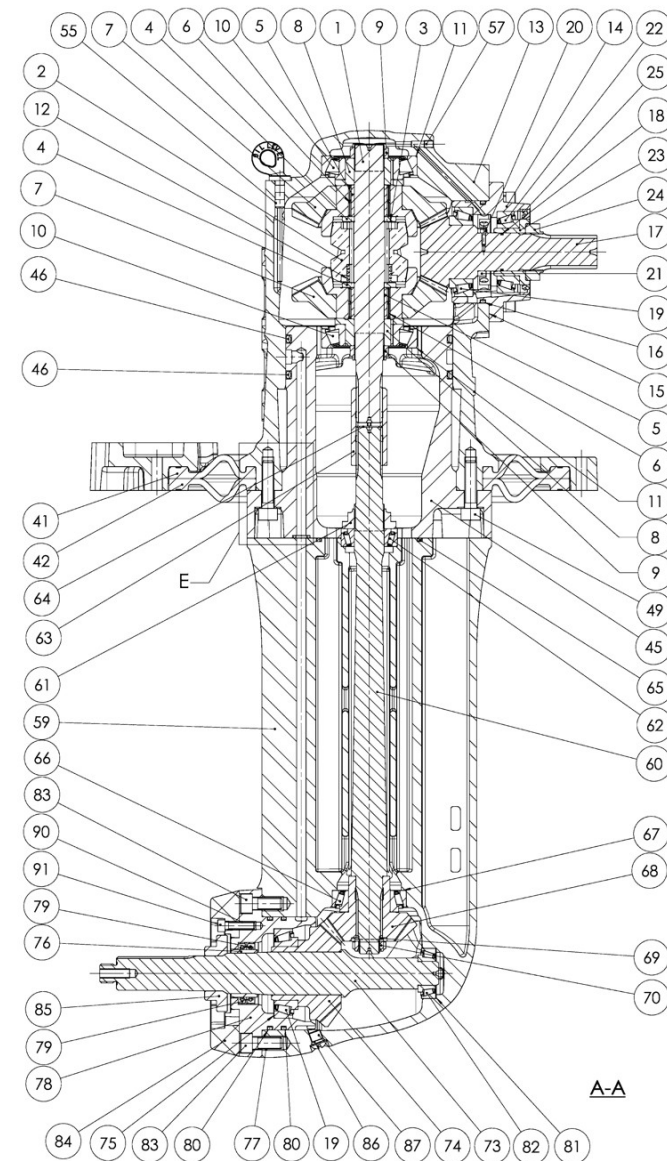
D_5037_2 Sheet 2/4 SP60 S.Drive V1

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			



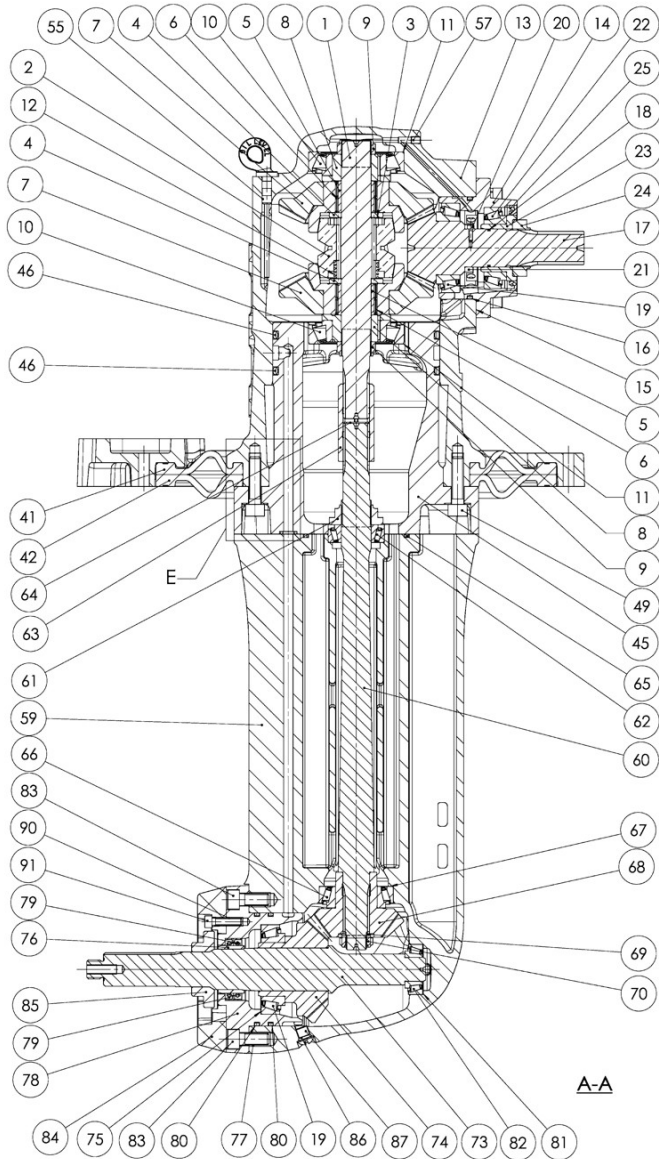
D_5037_3 Sheet 3/4 SP60 S.Drive V1

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			



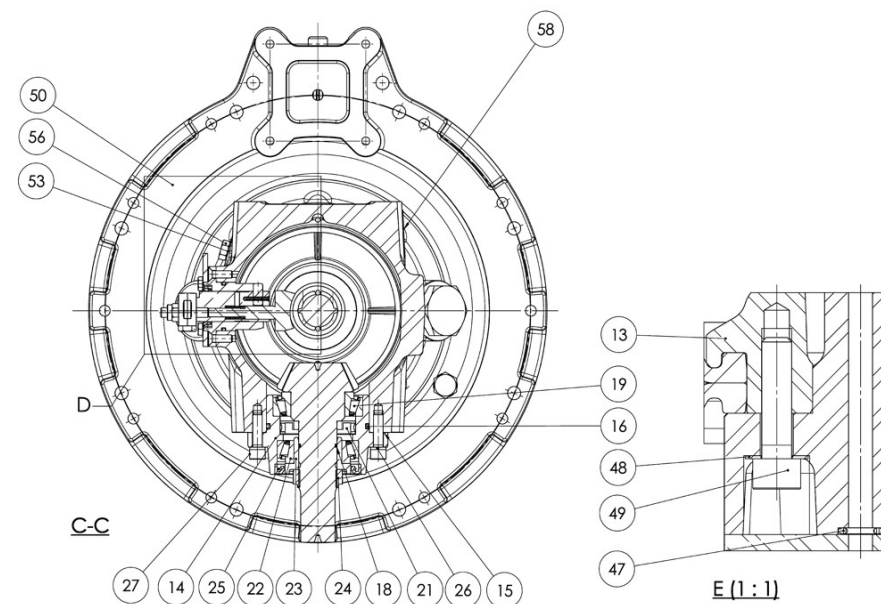
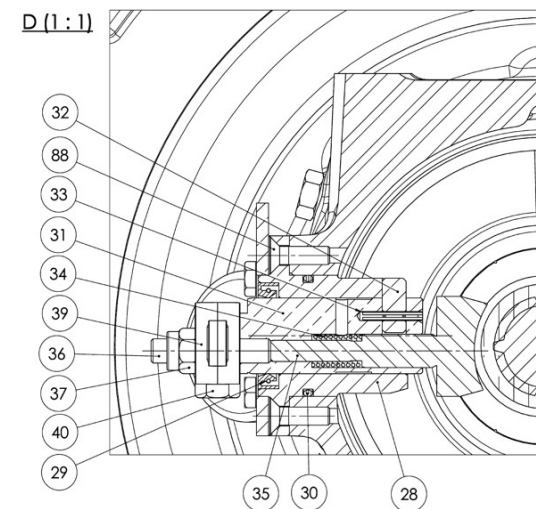
D_5037_3 Sheet 3/4 SP60 S.Drive V1

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			



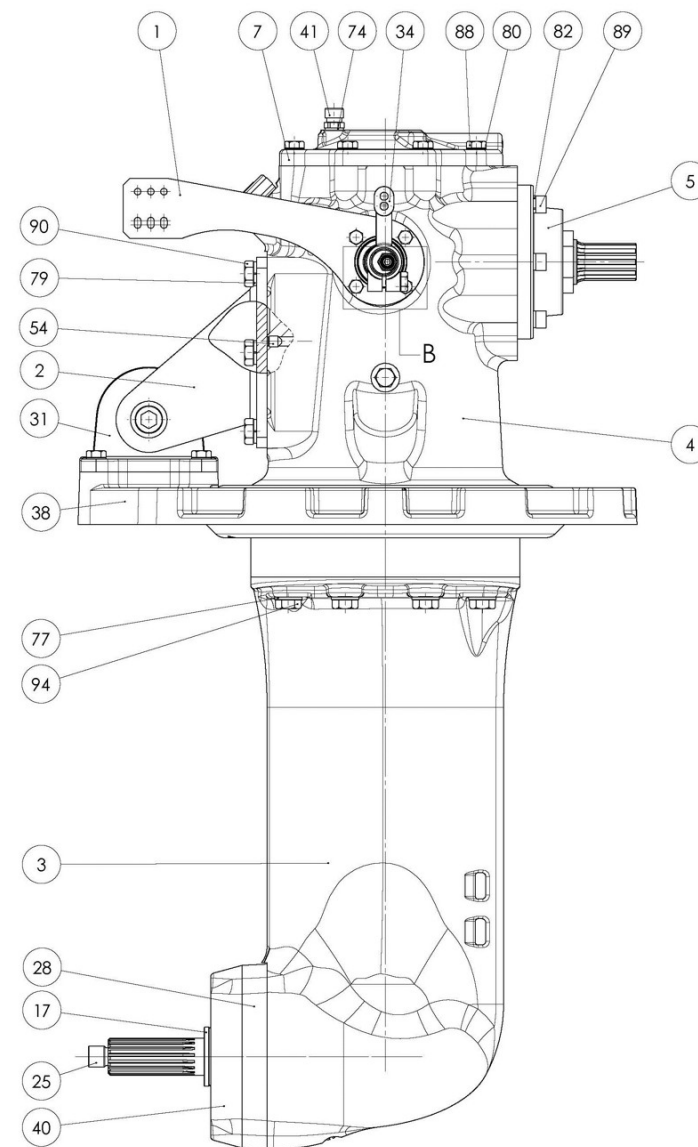
D_5037_4 Sheet 4/4 SP60 S.Drive V1

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			



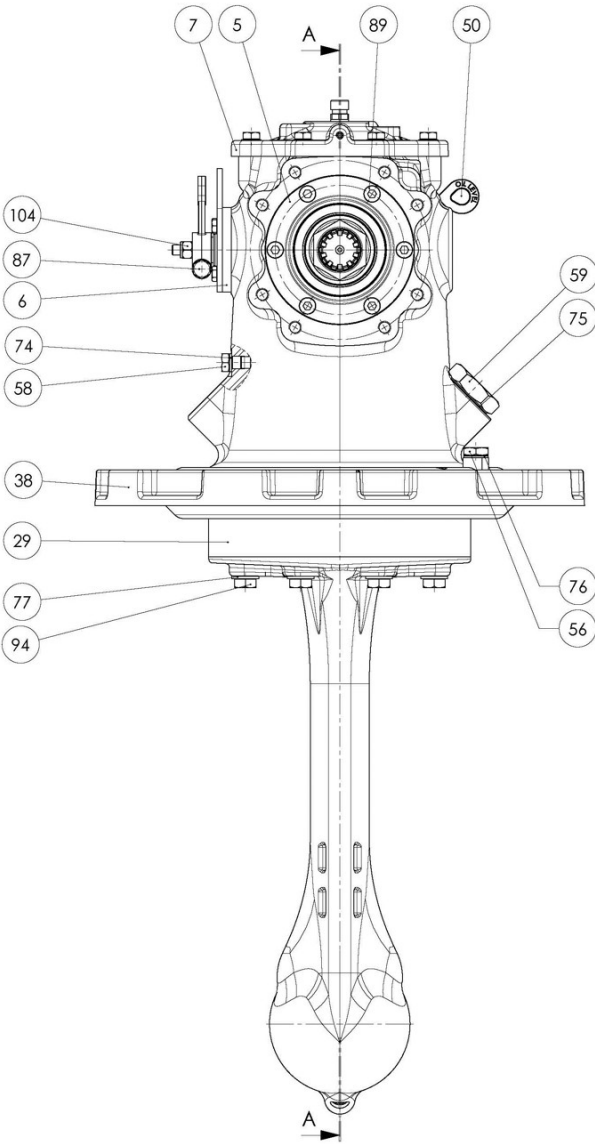
D_5037_6 Sheet 1/4 SP60 S.Drive V2

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			



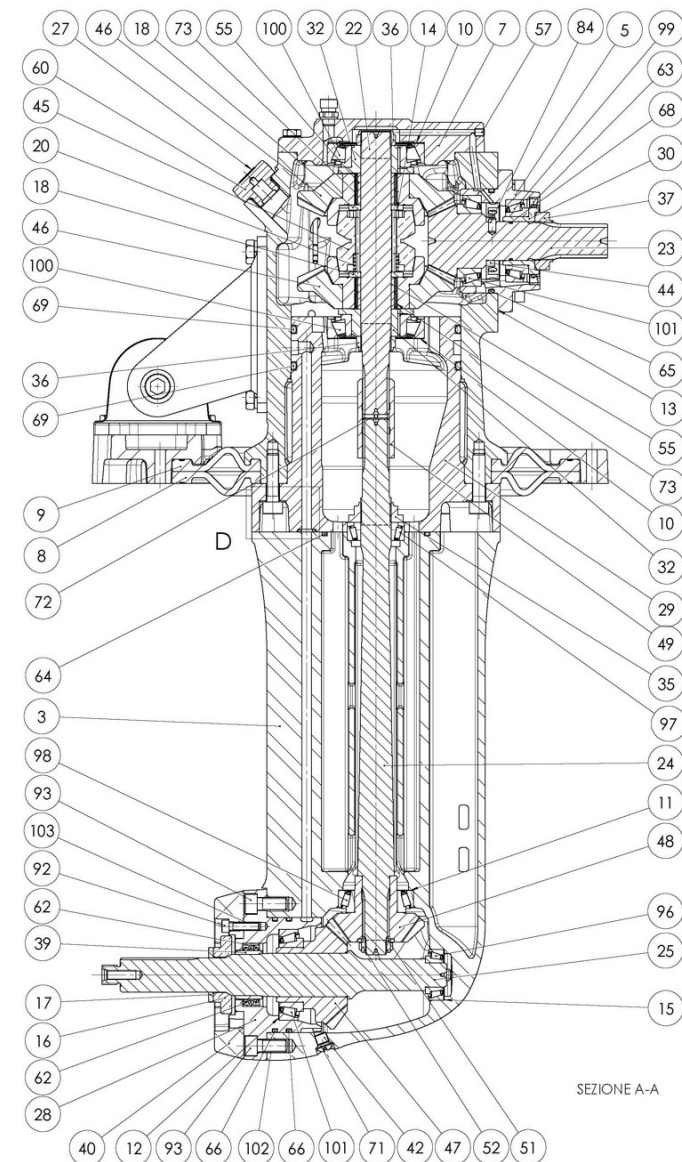
D_5037_7 Sheet 2/4 SP60 S.Drive V2

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	



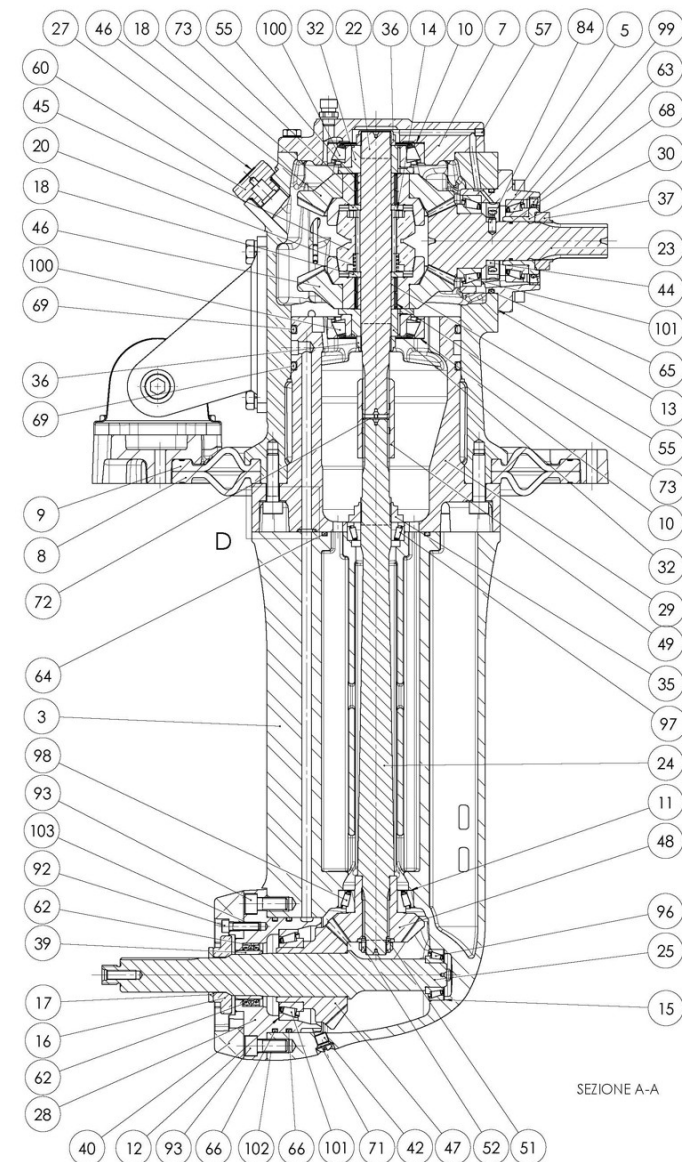
D_5037_8 Sheet 3/4 SP60 S.Drive V2

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	



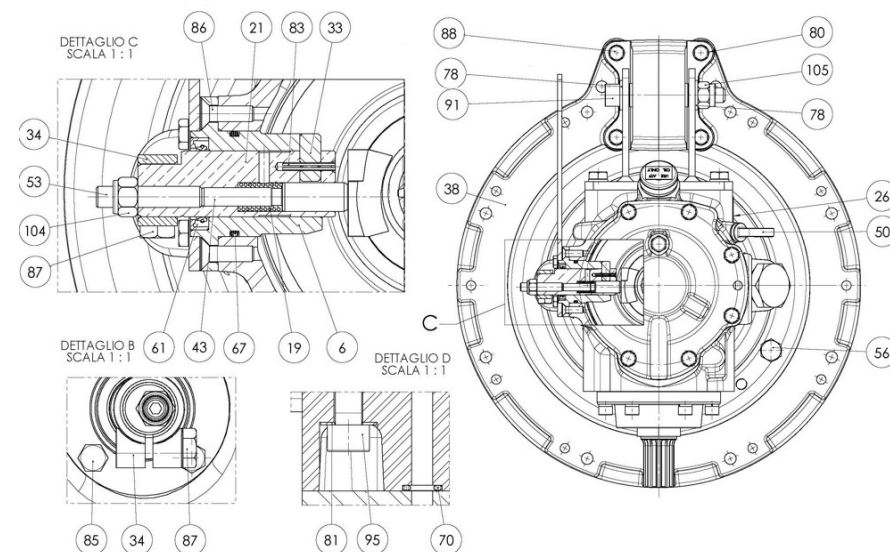
D_5037_8 Sheet 3/4 SP60 S.Drive V2

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			

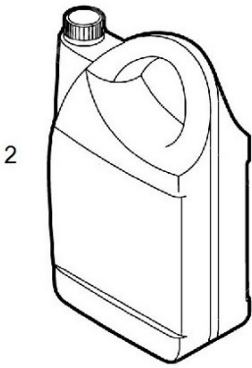
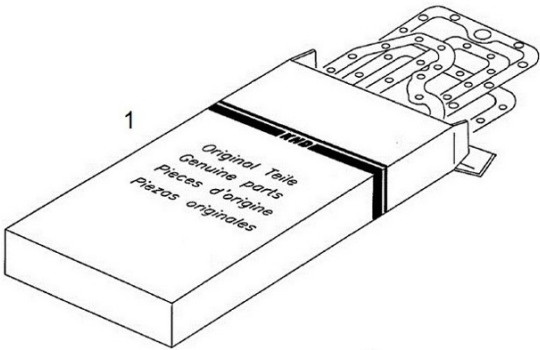


D_5037_9 Sheet 4/4 SP60 S.Drive V2

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	

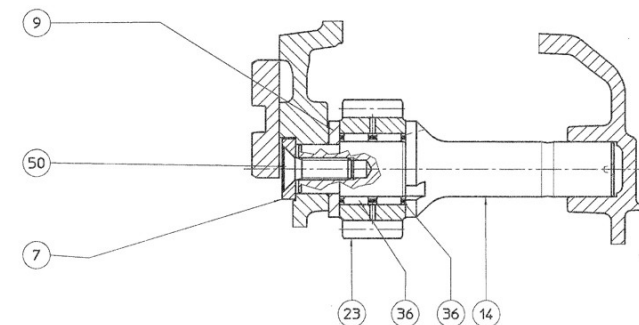
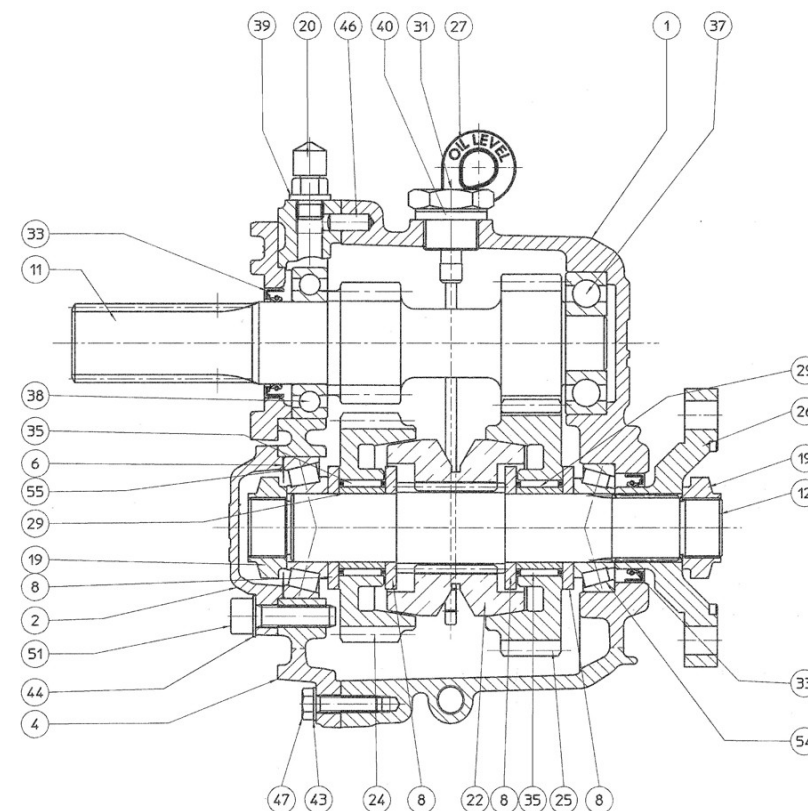


D_5037_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24813401	1	Kit Gasket			
2	A0201000	3	ATF Sole Diesel Oil 1L			
NS	24813500.84	1	Anode SP60 (Saltwater)			
NS	T2050044	1	Aluminum Anode (Fresh Water) SP60			



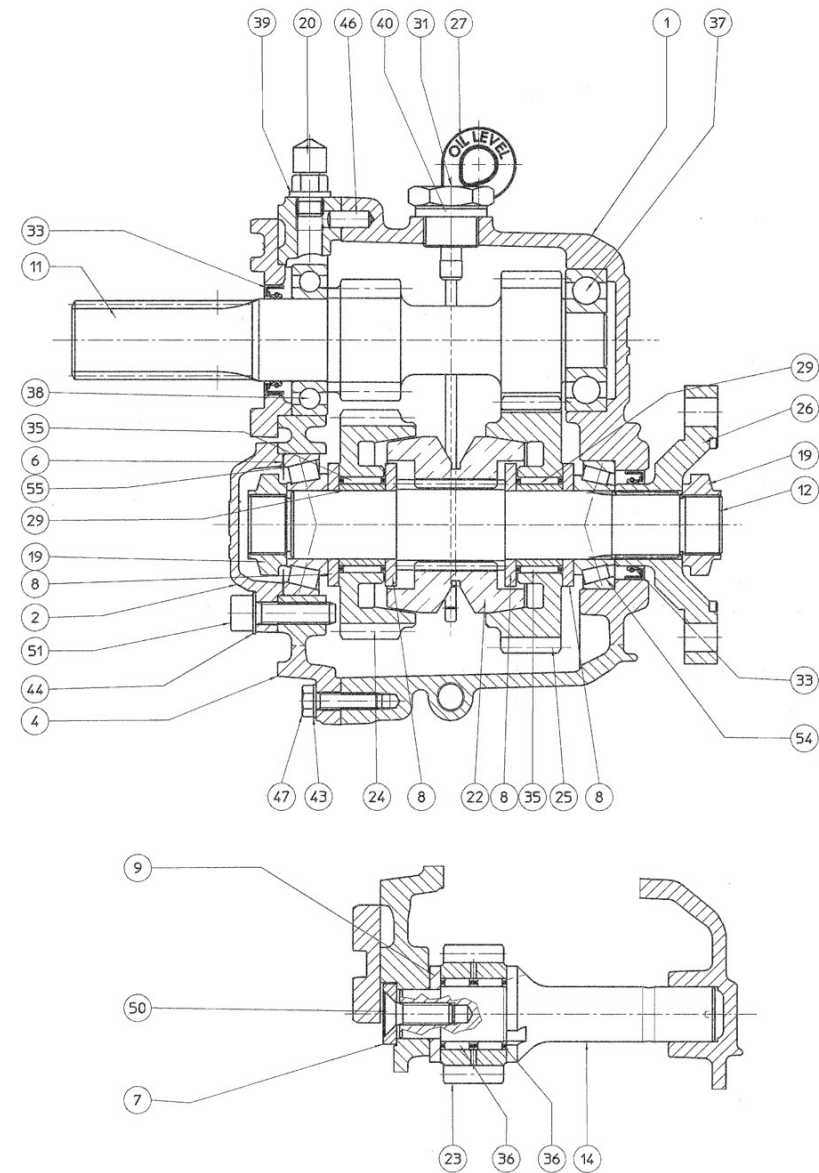
D_5033_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24860002P	1	Box			
2	24860208	1	Gear Ratio 3:1			
4	24860001P	1	Cover			
6	24860076	2	Shim 0.1 mm			
7	24860307	1	Washer			
8	24860217	4	Spacer			
9	24860304	1	Spacer			
11	24863101	1	Input Shaft			
11	24864101	1	INPUT Shaft			
12	24860201	1	Output			
14	24860301	1	INTERMEDIATE Shaft			
19	24860222	2	Nut			
20	24810065	1	Plug			
22	24860202	1	Clutch			
23	24860302	1	Gear			
24	24860210	1	Gear			
25	24863203	1	Gear R.2,00			
25	24864203	1	Gear R.2,60			
26	24860224	1	Flange Output			
27	24860008P	1	Gauge			
29	24860205	2	CAGE			
31	24830011	1	Plug			
33	24860103	2	Oil Seal			
35	24860204	2	Bearing, needle			
36	24860306	2	Bearing, needle			
37	24860104	1	Ball Bearing 6304			
38	24860105	1	Bearing			
39	24810063	1	Plane Washer			
40	56000081	1	Washer 20-26-1,5			
43	24860092	8	Washer			
44	24850093	4	Washer			



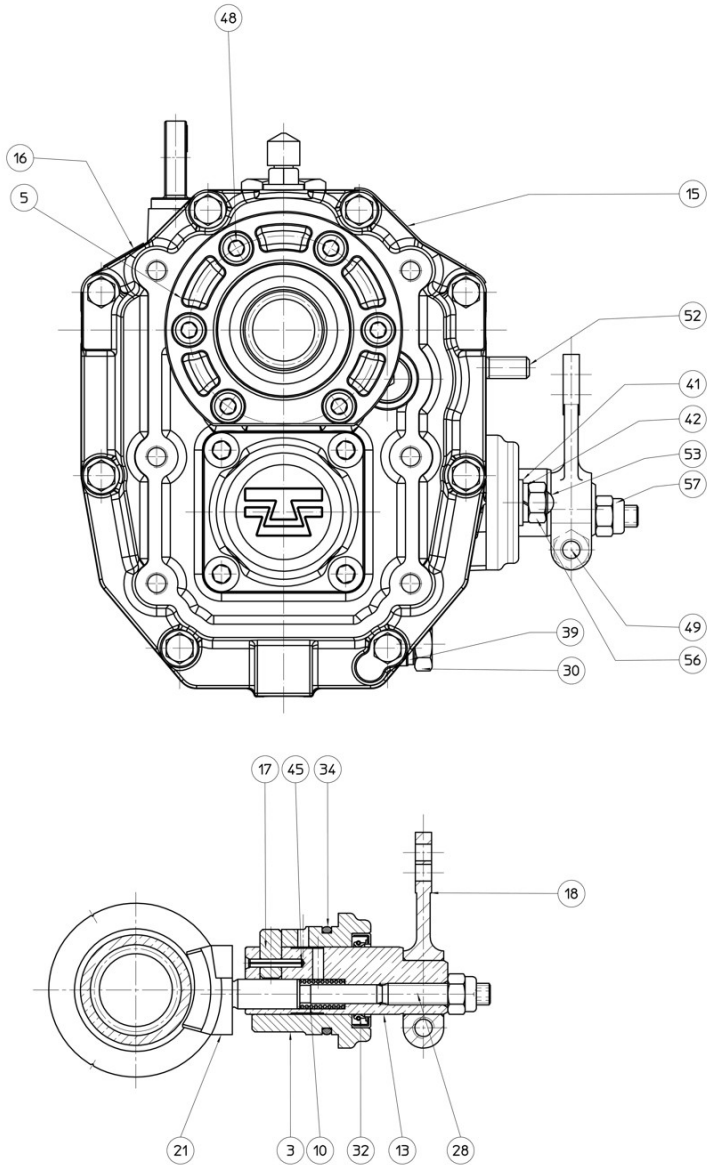
D_5033_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
46	24860023	2	Pin			
47	52102158	8	Bolt DIN 933 M6-25 8.8			
50	52105258	1	Bolt DIN 7991 M8-25 10.9			
51	52103259	4	Bolt DIN 912 M8-30 8.8			
54	24860206	1	Conical Roller Bearing 32005			
55	24860207	1	Conical Roller Bearing 30205A			
NS	24860450	1	Kit GasketS			



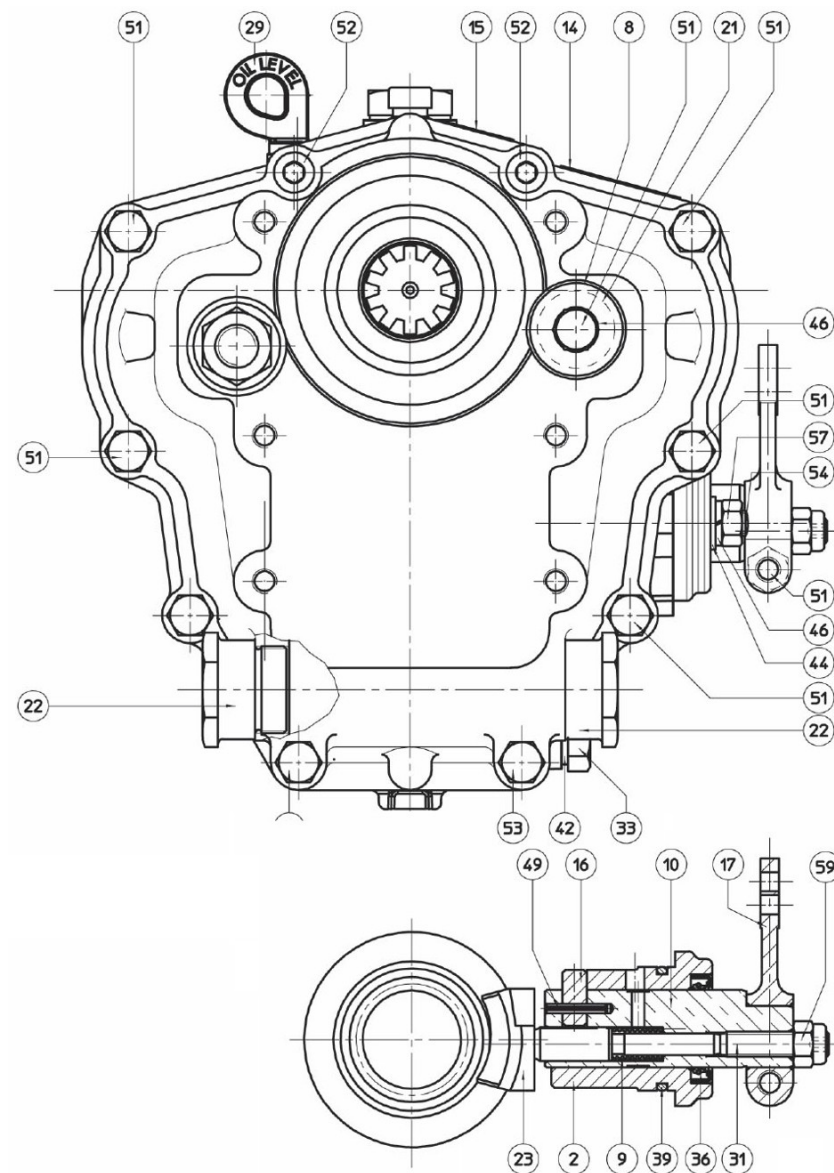
D_5033_2 Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
3	24860401	1	Cover			
5	24860003P	1	Cover			
10	24860411	1	Spring			
13	24860402	1	Shaft			
15	24850005	1	Plate, IDENTIFICATION			
16	24860006	1	ATF Oil Plate			
17	24860419	1	Pin			
18	24810424	1	Lever			
21	24860423	1	PAD			
28	24860409	1	Screw			
30	24850011	1	Plug,oil drain			
32	24860404	1	Oil Seal			
34	24860417	1	O-Ring			
39	24810063	1	Plane Washer			
41	51030008	2	Washer DIN 125-8			
42	53033008	2	Washer GROWER DIN 127-8			
45	53052210	1	Pin DIN 1481 3-20			
48	52103157	6	Bolt DIN 912 M6-20 8.8			
49	52102258	1	Bolt DIN 933 M8-25 8.8			
52	24860011P	2	Stud			
53	24860071	2	STUD			
56	52120008	2	Nut DIN 934 M8 8.8			
57	51123008	1	Nut DIN 985 M8 5.6			



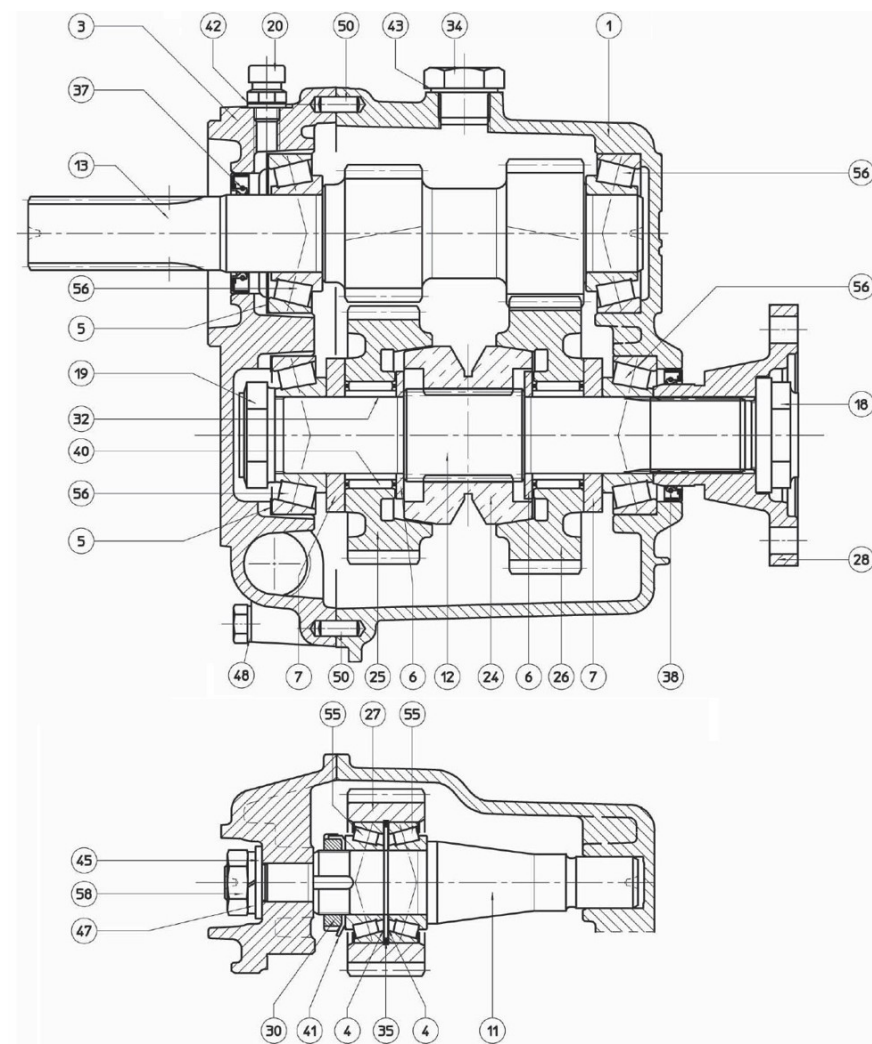
D_5036_1 Sheet 1/2

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			



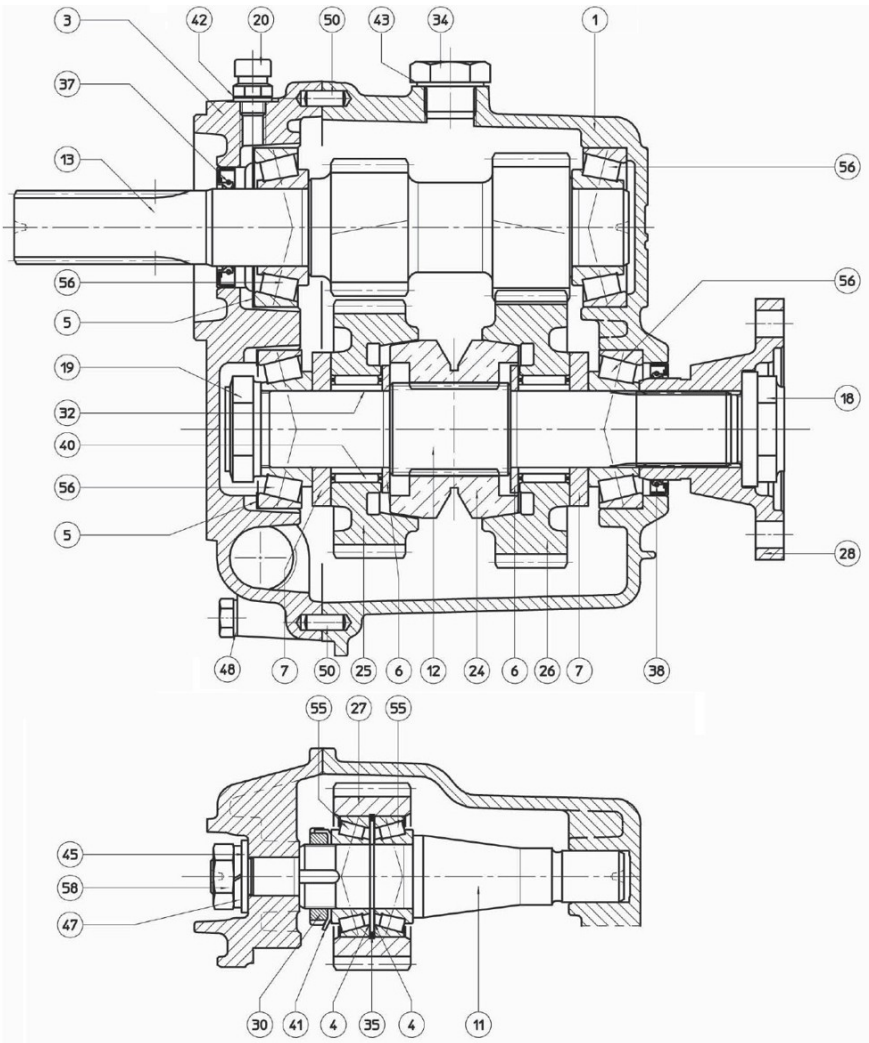
D_5036_2 Sheet 2/2

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			



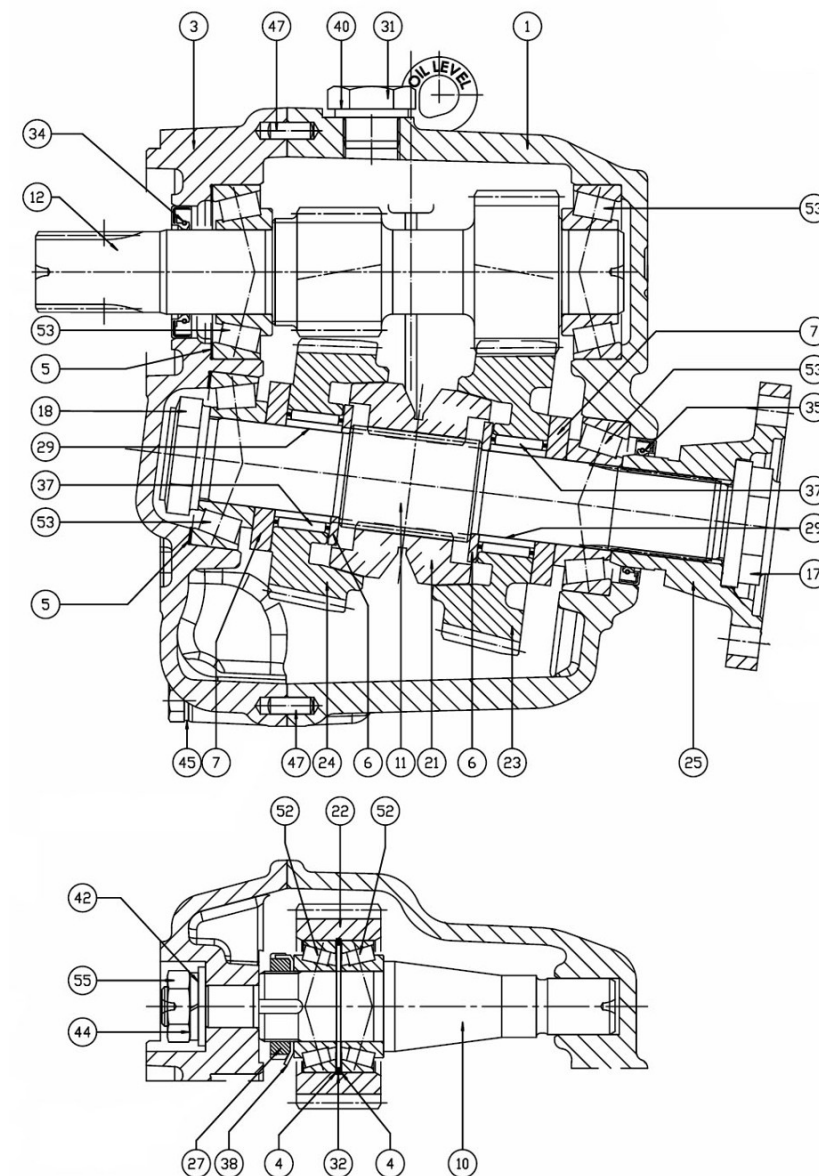
D_5036_2 Sheet 2/2

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			



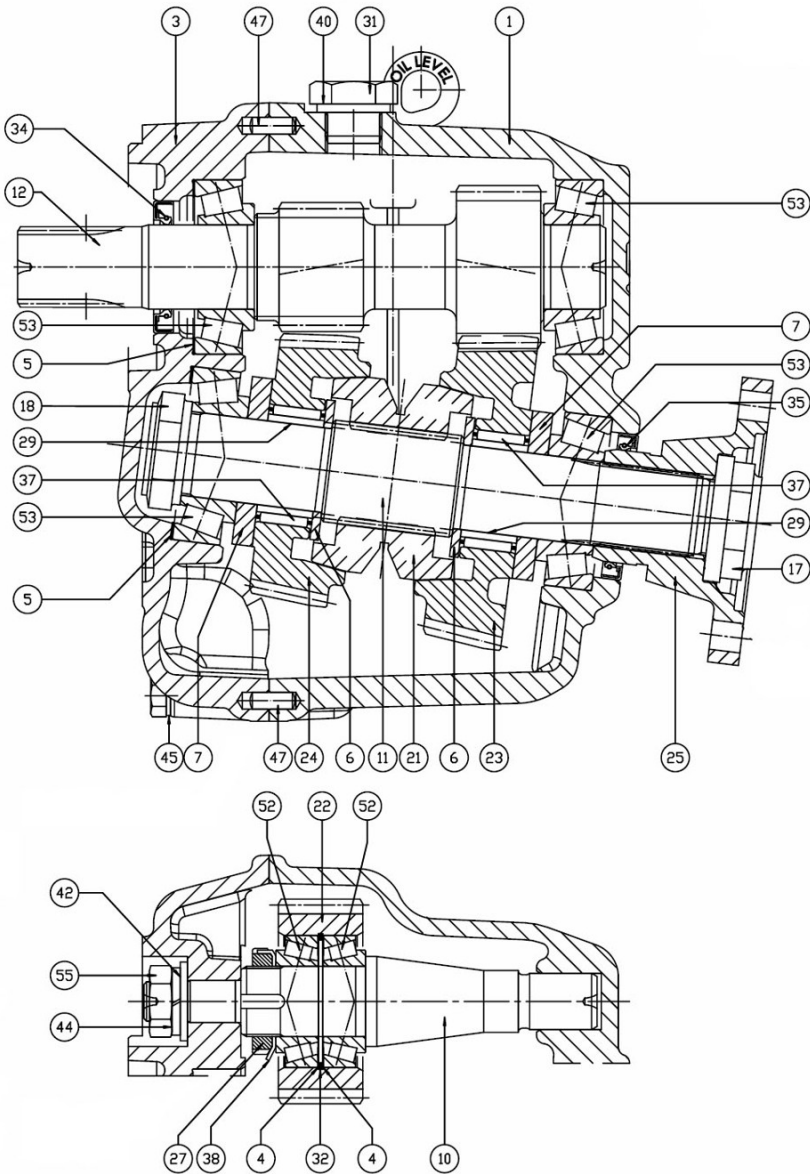
D_5034_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24880002A	1	Box			
3	24880001A	1	Cover			
4	24880305	2	Spacer			
5	24813500.67	6	Spacer			
6	24880218	2	Shim			
7	24880217	2	Shim			
10	24880301	1	INTERMEDIATE Shaft			
11	24880201	1	Shaft Output			
12A	24884101	1	Input Shaft			
12B	24883101A	1	Input Shaft			
17	24850099	1	Nut			
18	24880222	1	Nut			
21	24880202	1	Clutch			
22	24880302	1	Gear			
23A	24884210A	1	Gear			
23B	24883210A	1	Gear			
24	24883203A	1	Gear			
25	24880224	1	Flange Output			
27	24880310	1	Nut			
29	24880205	2	CAGE			
31	24830011	1	Plug			
32	24880309	1	Ring			
34	22210103	1	Seal,oil BA 30-47-7			
35	25210214	1	Seal,oil 40-52-7			
37	24880204	2	Bearing, needle			
38	24880308	1	Washer			
40	56000083	1	Washer 21-26-1,5			
42	51030014	1	Washer DIN 125-14			
44	53033014	1	Washer GROWER DIN 127-14			
45	24850093	10	Washer			
47	24860023	2	Pin			



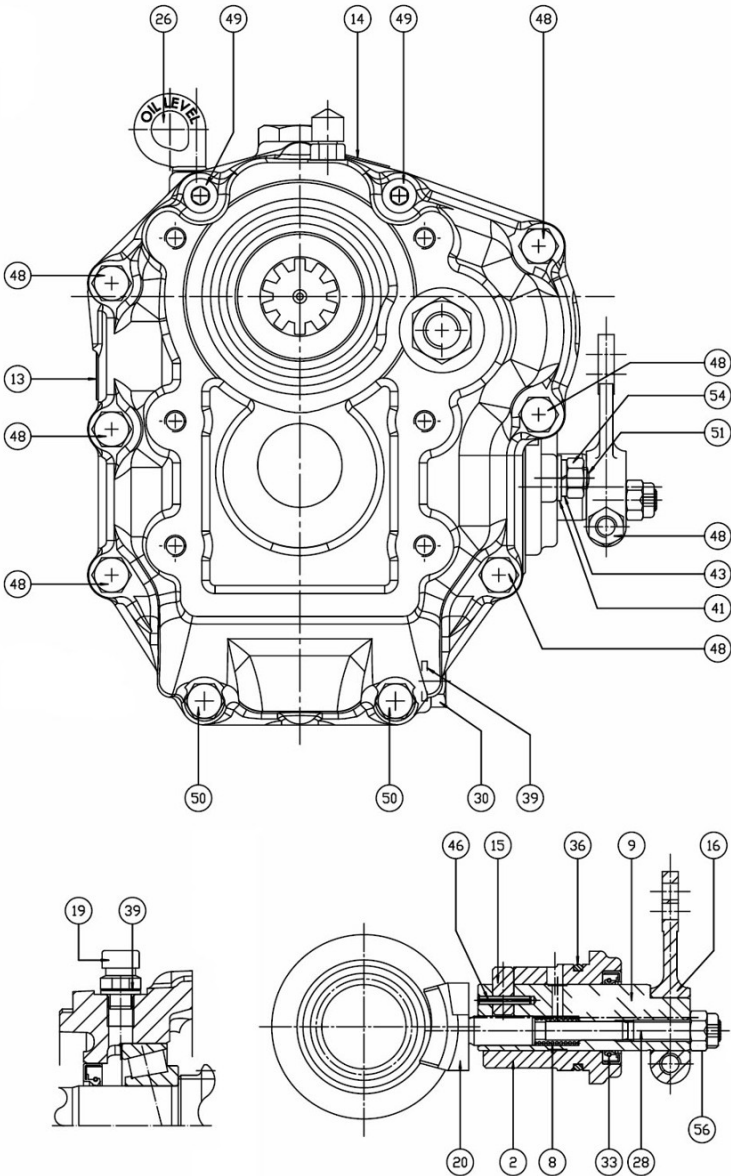
D_5034_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
52	24860206	2	Conical Roller Bearing 32005			
53	25710104	4	Conical Roller Bearing 32206-J2/Q			
55	24880307	1	Nut			



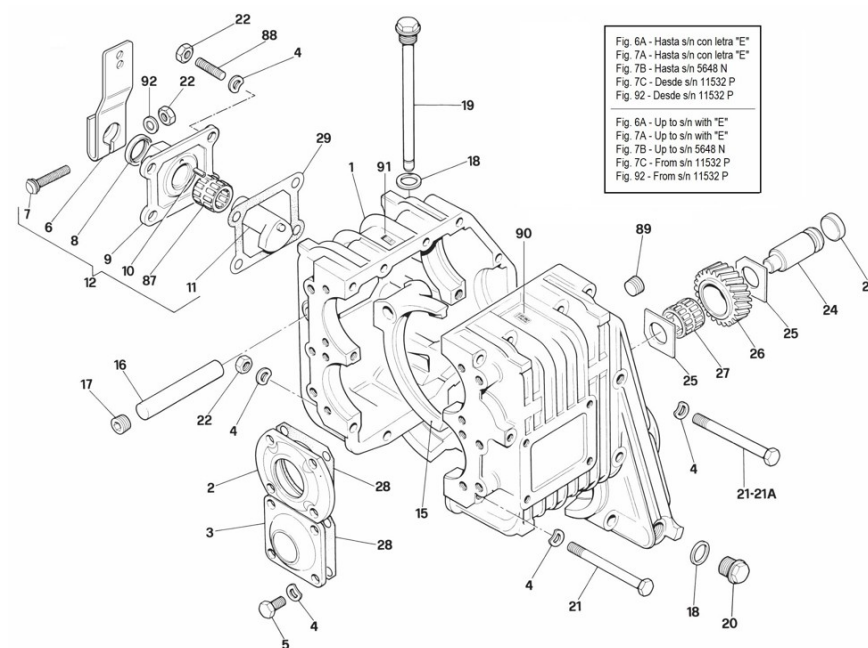
D_5034_2 Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
2	24880401	1	Cover			
8	24860411	1	Spring			
9	24880402	1	Shaft			
13	24850005	1	Plate, IDENTIFICATION			
14	24860006	1	ATF Oil Plate			
15	24860419	1	Pin			
16	24810424	1	Lever			
19	24810065	1	Plug			
20	24880423	1	Pad			
26	24860008P	1	Gauge			
28	24880409	1	Screw			
30	24850011	1	Plug,oil drain			
33	24860404	1	Oil Seal			
36	24860417	1	O-Ring			
39	24810063	2	Plane Washer			
41	51030008	2	Washer DIN 125-8			
43	53033008	2	Washer GROWER DIN 127-8			
46	53052210	1	Pin DIN 1481 3-20			
48	52102258	7	Bolt DIN 933 M8-25 8.8			
49	52103258	2	Bolt DIN 912 M8-25 8.8			
50	52101263	2	Bolt DIN 931 M8-50 8.8			
51	24860071	2	STUD			
54	52120008	2	Nut DIN 934 M8 8.8			
56	51123008	1	Nut DIN 985 M8 5.6			



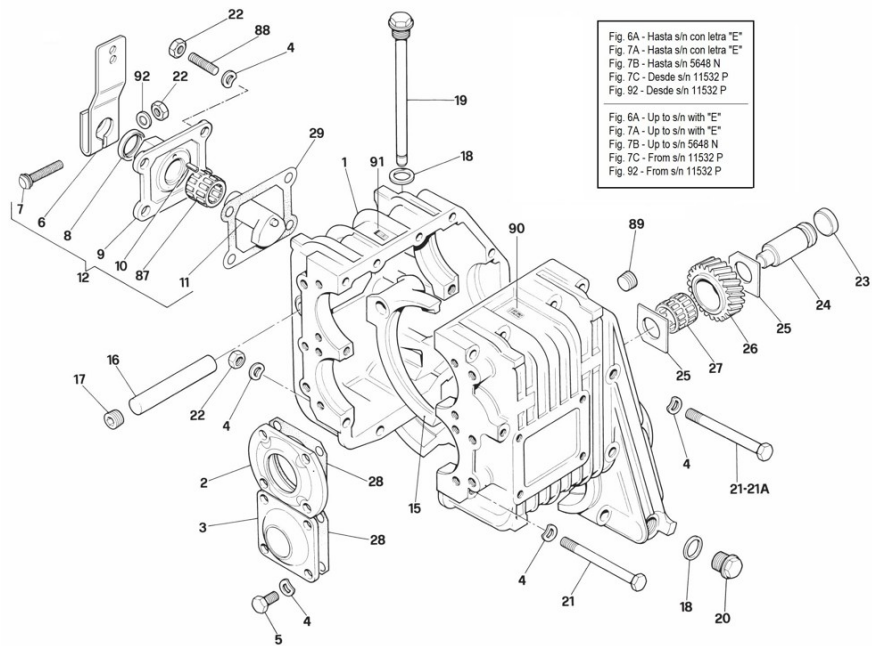
D_50Z2_1 Sheet 1/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24610030	1	Housing Assy			
2	24610031	1	Cover			
3	24610032	1	Cover			
4	24610033	37	Spring Washer			
5	24610034	8	Hex Screw			
6A	24610401	1	Actuating Lever			
6B	24610402	1	Actuating Lever			
7A	24610403	1	Hex Head Screw			
7B	24610404	1	Cap Screw M8X40			
7C	24610405	1	Screw (Actuating Lever)			
8	24610406	1	Shaft Seal Ring			
9	24610407	1	Cover			
10	24610408	1	Dowel Pin			
11	24610409	1	Actuating Cam Assembly			
12	24610400	1	Shift Cover Assembly			
15	24610411	1	Shift Fork			
16	24610035	1	Shift Rod			
17	24610036	1	Plug			
18	24610037	1	Sealing Ring			
19	24610038	1	Dipstick			
20	24610039	1	Oil Drain Plug			
21	24610040	14	Hex Screw			
22	24610041	16	Hex Nut			
23	24610042	1	Plug			
24	24610301	1	Intermediate Shaft			
25	24610302	2	Disc			
26	24610303	1	Intermediate Gear			
27	24610304	1	Needle Bearing			
28	24610043	2	Gasket			
29	24610412	1	Gasket (or Loctite 518)			
87	24610410	2	Needle Bearing			



D_50Z2_1		Sheet 1/2				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo

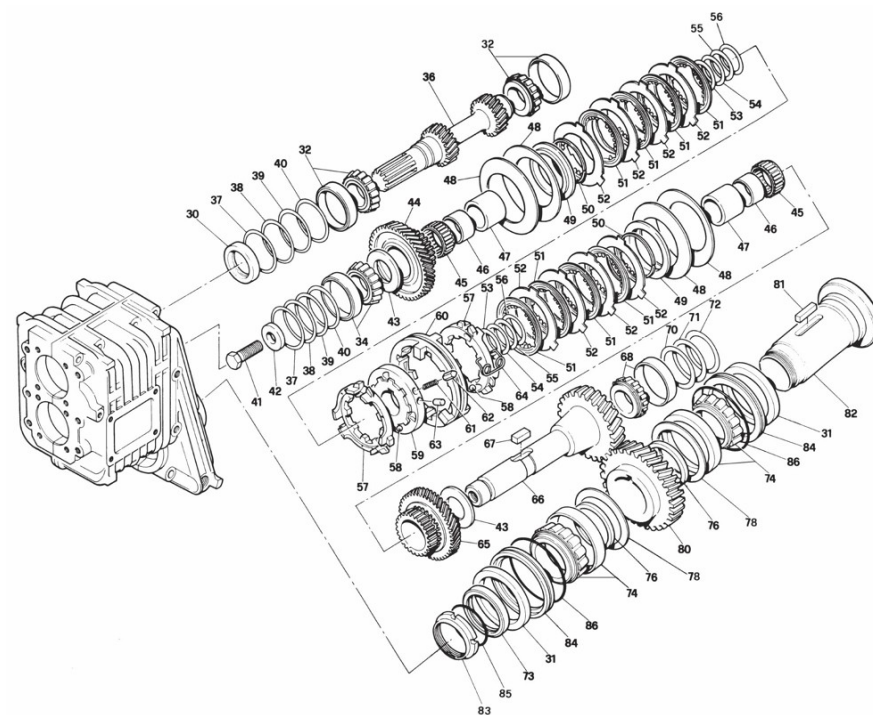
88	24610044	4	Stud			
89	24610045	4	Plug			
90	24610046	1	Name Plate			
91	24610047	1	Oil Name Plate			
92	24610413	1	Washer			



D_50Z2_2

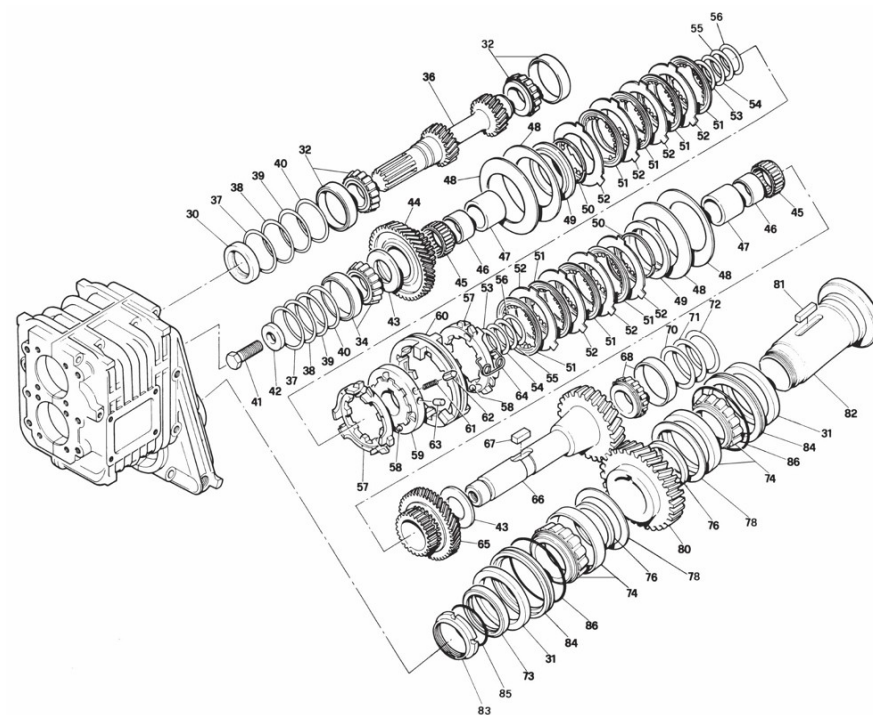
Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
30	24613430	1	Input Shaft Seal			
31	24613431	2	Output Shaft Seal			
32	24610102	2	Tapered Roller Bearing			
34	24610305	1	Tapered Roller Bearing			
36A	24610103	1	Input Shaft Hbw 150 V 1.8R Z1/Z3=27/22			
36B	24610104	1	Input Shaft Zf 15 Miv 2.13R Z1/Z3=24/22			
36C	24610105	1	Input Shaft Zf 15 Miv 2.72R Z1/Z3=18/22			
36D	24610106	1	Input Shaft Zf 15 Miv 2.99R Z1/Z3=19/22			
37	24610107	2	Shim 0.10 mm			
38A	24610108	2	Shim 0.15 mm			
38B	24610109	2	Shim 0.20 mm			
38C	24610110	2	Shim 0.30 mm			
39	24610111	2	Shim 0.50 mm			
40	24610112	2	Shim 1.00 mm			
41	24610307	1	Hex Head Screw			
42	24610308	1	Spacer			
43	24610309	2	Thrust Ring			
44A	24610310	1	Gear Hbw 150 V - 1.8R «08» Z2=42			
44B	24610311	1	Gear Zf 15 Miv - 2.13R «001» Z2=45			
44C	24610312	1	Gear Zf 15 Miv - 2.72R «003» Z2=43			
44D	24610313	1	Gear Zf 15 Miv - 2.99R «002» Z2=50			
45	24610314	2	Needle Bearing			
46	24610315	2	Needle Bearing			
47	24610316	2	Spacer			
48	24610317	4	Spring			
49	24610318	2	Disc			
50	24610319	4	Ring Half			
51	24610320	8	Internal Clutch Disc			
52	24610321	8	External Clutch Disc			
53A	24610322	2	Shim 0.3 mm			
53B	24610323	2	Shim 0.4 mm			



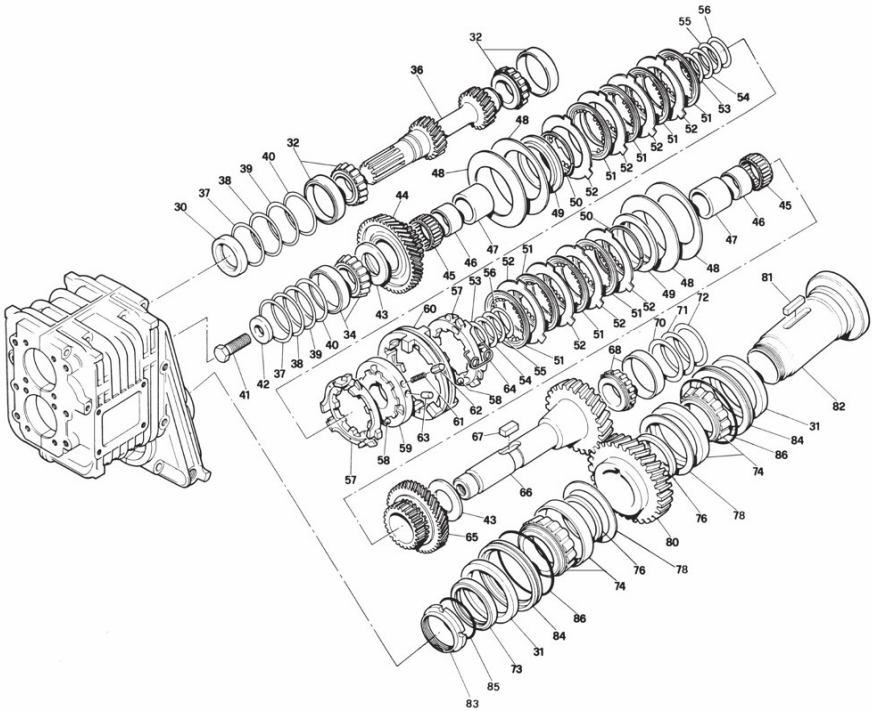
D_50Z2_2 Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
54	24610324	2	Shim 0.5 mm			
55	24610325	2	Shim 0.6 mm			
56	24610326	2	Shim 0.7 mm			
57	24610327	2	Disc Carrier			
58	24610328	6	Ball			
59	24610329	1	Guide Sleeve			
60	24610330	1	Change Selector			
61	24610331	3	Pressure Spring			
62	24610332	3	Stop Pin			
63	24610333	3	Guide Pin			
64	24610334	3	Torsion Spring			
65	24610335	1	Gear Z5=43			
66	24610336	1	Intermediate Shaft Z6=29			
67	24610337	2	Cotter			
68	24610338	1	Tapered Roller Bearing			
70	24610339	2	Shim 0.1 mm			
71	24610340	1	Shim 0.3 mm			
72	24610341	1	Shim 0.5 mm			
73	24610202	1	Ring			
74	24610203	2	Tapered Roller Bearing			
76	24610204	2	Spacer Ring			
78A	24610205	2	Shim 1.1 mm			
78B	24610206	2	Shim 1.2 mm			
78C	24610207	2	Shim 1.3 mm			
78D	24610208	2	Shim 1.4 mm			
78E	24610209	2	Shim 1.5 mm			
78F	24610210	2	Shim 1.6 mm			
78G	24610211	2	Shim 1.7 mm			
78H	24610212	2	Shim 1.8 mm			
78I	24610213	2	Shim 1.9 mm			
78J	24610214	2	Shim 2.0 mm			



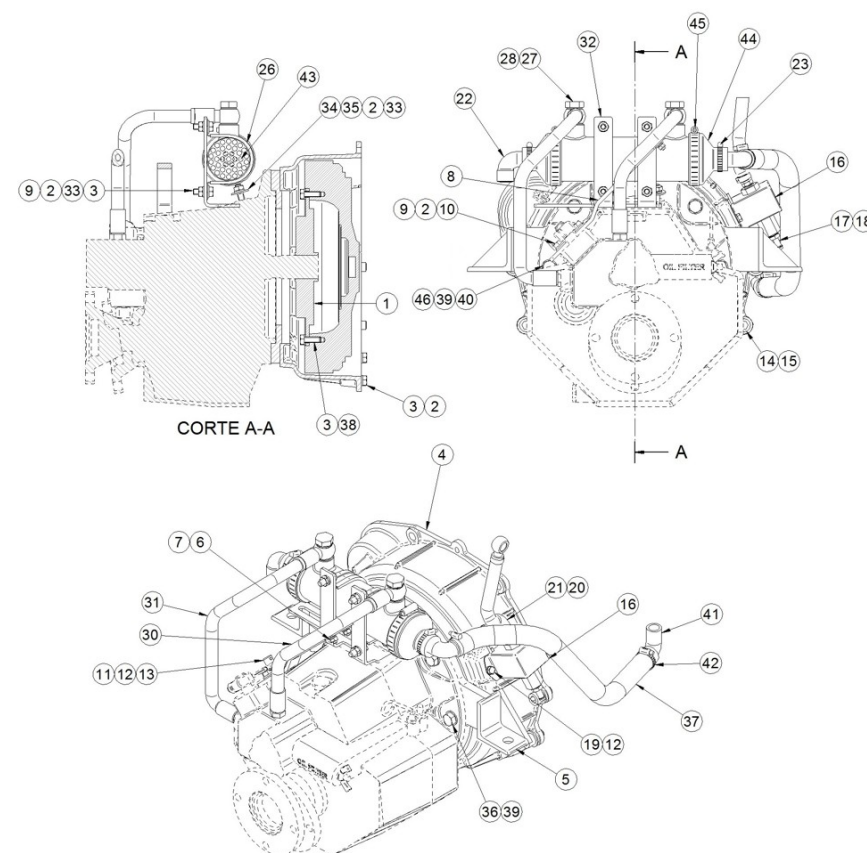
D_50Z2_2 Sheet 2/2

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
78K	24610215	2	Shim 2.1 mm			
78L	24610216	2	Shim 2.2 mm			
78M	24610217	2	Shim 2.3 mm			
78N	24610218	2	Shim 2.4 mm			
80	24610219	1	Gear Z=33			
81	24610220	1	Key			
82	24610221	1	Output Shaft			
83	24610222	1	Ring Nut			
84	24610223	2	Ring			
85	24610224	1	O-Ring			
86	24610225	2	O-Ring			



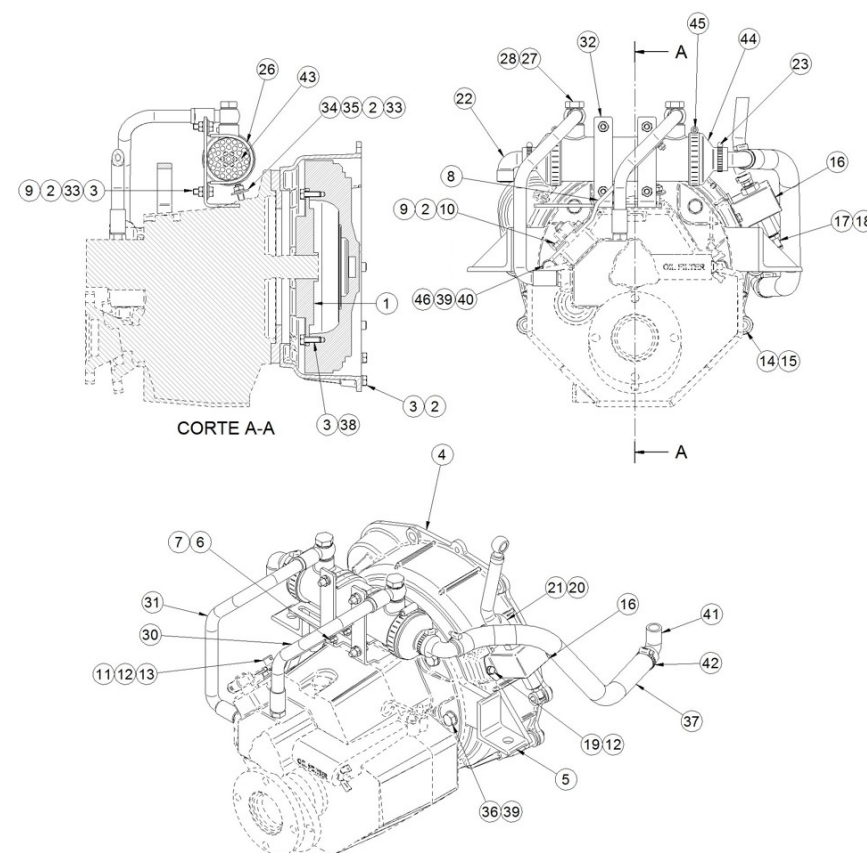
17610200.6 Kit GearBox TM-345/345A

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17210071	1	Flexible Coupling Type B SAE 6"1/2			
2	53033008	12	Washer GROWER DIN 127-8			
3	52102257	14	Bolt DIN 933 M8-20 8.8			
4	17610016	1	Engine Adaptor SAE7			
5	13910018.1	1	Adaptor SAE 7			
6	24810913	1	Clamp,CABLE			
7	51030005	2	Washer DIN 125-5			
8	18619020	1	Bracket,Gear box control			
9	51030008	6	Washer DIN 125-8			
10	52102256	2	Bolt DIN 933 M8-16 8.8			
11	51051107	1	Pin DIN-94 1,6-16			
12	51030006	6	Washer DIN 125-6			
13	14719115	1	Coupling,cable			
14	53203357	4	Bolt DIN 912 M12-1,25-20 12.9			
15	53038012	4	Washer DIN 6798-A 12			
16	13814070	1	Electric Fuel Feed Pump 12V			
17	13814072	2	Straight Hose Connector 1/8" NPTF			
18	57000361	2	Washer 10-14-1,5			
19	52102154	2	Bolt DIN 933 M6-10 8.8			
20	51086015	1	One Ear Clamp With Interior Ring 13-15,3			
21	13814017.5	1	Fuel Pump Hose			
22	17211031	2	Elbow			
23	54081020	2	Clamp DIN 3017 20-32/9 W4			
26	59072604	2	Clamp			
27	14712015	2	Bolt,Coupling pipe oil			
28	59031017	4	Washer			
30	18512024	1	Pipe			
31	17012024	1	Pipe			
32	13912041	1	Bracket,TM Oil Cooler			
33	52120008	6	Nut DIN 934 M8 8.8			
34	51031008	2	Washer DIN 9021 8			

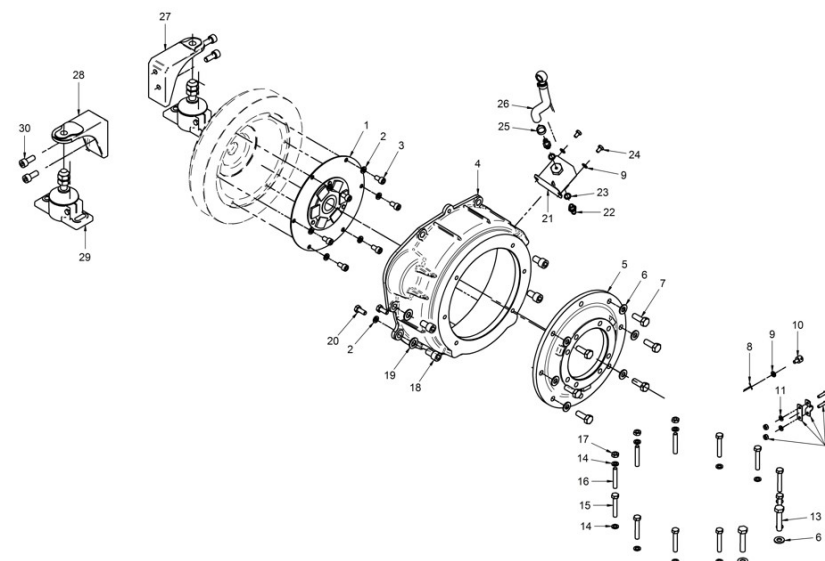


17610200.6 Kit GearBox TM-345/345A

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
35	12120018	2	Stud			
36	52102310	4	Bolt DIN 933 M10-35 8.8			
37	M87501927	0.0	Water Intake Hose (HQ) D. 19-27			10/04/2024
37	M87502029	0.0	Water Intake Hose (HQ) D. 20-28		10/04/2024	
38	53038008	6	Washer DIN 6798-A 8			
39	53038010	5	Washer DIN 6798-A 10			
40	15211002	1	Stud		10/04/2024	
40	52102309	1	Bolt DIN 933 M10-30 8.8			10/04/2024
41	13211035	1	Exhaust Manifold Outlet Bend			
42	54081016	2	Clamp DIN 3017 16-27/9 W4			
43	1A012051	1	Cooler,oil			
44	15212007	2	Water Cooler Cover			
45	54082050	2	Clamp DIN 3017 50-70/12 W4			
46	52120010	1	Nut DIN 934 M10 8.8			
NS	58088283	1	Pastic Cable Zip Tie			
NS	60900126	1	TERMINAL			

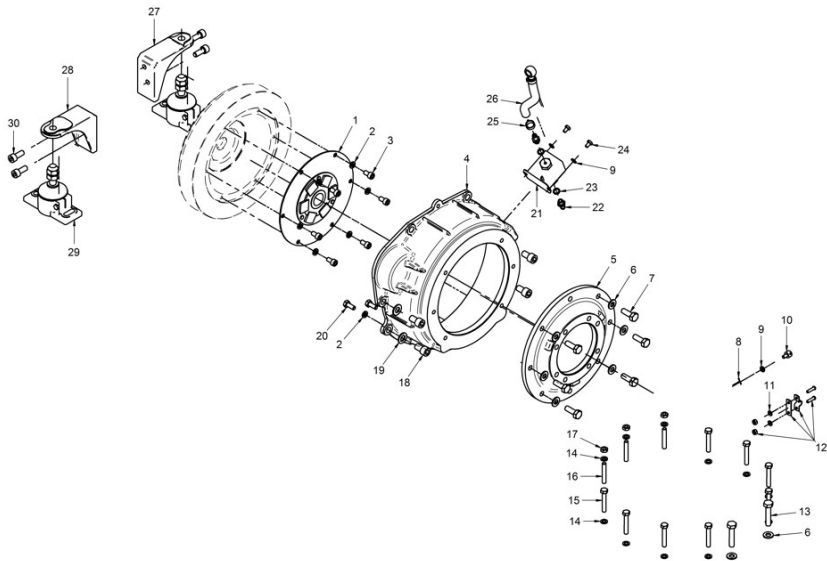


17632100T.6		Kit S-Drive TECHNO.SP60				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13810046	1	Flexible coupling type A SAE 6"1/2			
2	53033008	10	Washer GROWER DIN 127-8			
3	52103256	6	Bolt DIN 912 M8-16 8.8			
4	17610016	1	Engine Adaptor SAE7			
5	24813501	1	SAE 7 - BW Bell Housing			
6	53038010	16	Washer DIN 6798-A 10			
7	52102309	14	Bolt DIN 933 M10-30 8.8			
8	51051107	1	Pin DIN-94 1,6-16			
9	51030006	6	Washer DIN 125-6			
10	14719115	1	Coupling,cable			
11	51030005	2	Washer DIN 125-5			
12	24810913	1	Clamp,CABLE			
13	52101313	2	Bolt DIN 931 M10-50 8.8			
14	53038008	11	Washer DIN 6798-A 8			
15	52101263	8	Bolt DIN 931 M8-50 8.8			
16	40019030	3	Stud			
17	52120008	3	Nut DIN 934 M8 8.8			
18	53203357	4	Bolt DIN 912 M12-1,25-20 12.9			
19	53038012	4	Washer DIN 6798-A 12			
20	52102257	4	Bolt DIN 933 M8-20 8.8			
21	13814070	1	Electric Fuel Feed Pump 12V			
22	13814072	2	Straight Hose Connector 1/8" NPTF			
23	57000361	2	Washer 10-14-1,5			
24	52102154	2	Bolt DIN 933 M6-10 8.8			
25	51086015	1	One Ear Clamp With Interior Ring 13-15,3			
26	13814017.5	1	Fuel Pump Hose			
27	13810001.1	1	Bracket Front, Left			
28	13810002.1	1	RIGHT, front bracket			
29	61631100	2	Engine Mount Type A 50 SHA M14 H 108			
30	52203308	4	Bolt DIN 912 M10-1,25-25 12.9 Blued			
NS	13211035	1	Exhaust Manifold Outlet Bend			

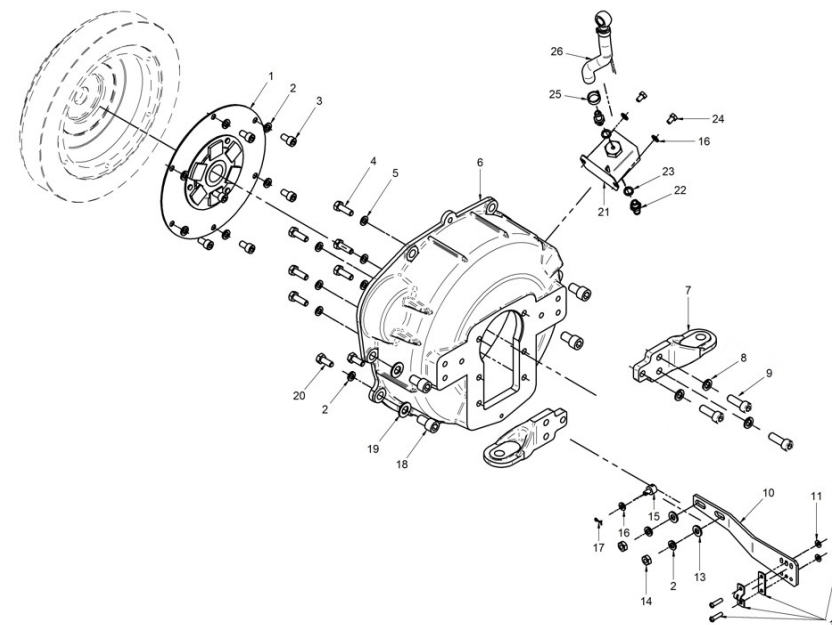


17632100T.6 Kit S-Drive TECHNO.SP60

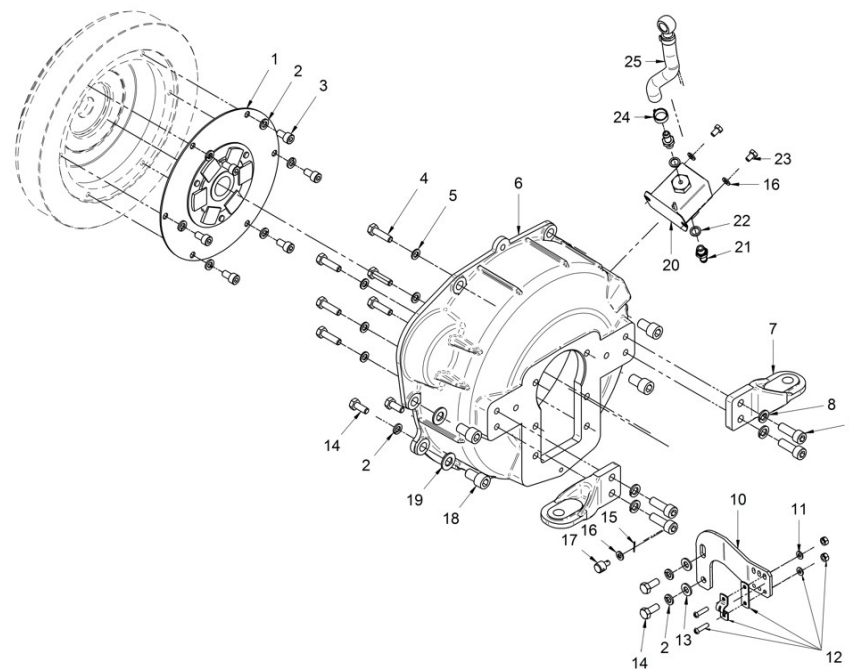
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
NS	17211036	1	Raccord			
NS	54081020	2	Clamp DIN 3017 20-32/9 W4			
NS	58088283	3	Pastic Cable Zip Tie			
NS	60121005	1	Water Trainer 1/2"			
NS	60900126	1	TERMINAL			
NS	M87501927	1	Water Intake Hose (HQ) D. 19-27			



17610107.6 Kit GearBox TMC-40P						
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13810046	1	Flexible coupling type A SAE 6"1/2			
2	53033008	12	Washer GROWER DIN 127-8			
3	52103256	6	Bolt DIN 912 M8-16 8.8			
4	52102258	6	Bolt DIN 933 M8-25 8.8			
5	53038008	6	Washer DIN 6798-A 8			
6	17610013	1	Engine adaptor			
7	13810037	2	Support REAR			
8	53033010	6	Washer GROWER DIN 127-10			
9	52103309	6	Bolt DIN 912 M10-30 8.8			
10	24810901	1	Bracket, GearBox Control			
11	51030005	2	Washer DIN 125-5			
12	24810913	1	Clamp,CABLE			
13	51030008	2	Washer DIN 125-8			
14	52120008	2	Nut DIN 934 M8 8.8			
15	14719115	1	Coupling,cable			
16	51030006	3	Washer DIN 125-6			
17	51051107	1	Pin DIN-94 1,6-16			
18	53203357	4	Bolt DIN 912 M12-1,25-20 12.9			
19	53038012	4	Washer DIN 6798-A 12			
20	52102257	4	Bolt DIN 933 M8-20 8.8			
21	13814070	1	Electric Fuel Feed Pump 12V			
22	13814072	2	Straight Hose Connector 1/8" NPTF			
23	57000361	2	Washer 10-14-1,5			
24	52102154	2	Bolt DIN 933 M6-10 8.8			
25	51086015	1	One Ear Clamp With Interior Ring 13-15,3			
26	13814017.5	1	Fuel Pump Hose			
NS	58088283	1	Pastic Cable Zip Tie			
NS	60900126	1	TERMINAL			



17610241.6 Kit GearBox TMC-60						
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13810046	1	Flexible coupling type A SAE 6"1/2			
2	53033008	12	Washer GROWER DIN 127-8			
3	52103256	6	Bolt DIN 912 M8-16 8.8			
4	52101259	6	Bolt DIN 931 M8-30 8.8			
5	53038008	6	Washer DIN 6798-A 8			
6	17610013	1	Engine adaptor			
7	13810037.1	2	Support REAR			
8	53033010	4	Washer GROWER DIN 127-10			
9	52103309	4	Bolt DIN 912 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	52102257	6	Bolt DIN 933 M8-20 8.8			
15	51051107	1	Pin DIN-94 1,6-16			
16	51030006	6	Washer DIN 125-6			
17	14719115	1	Coupling,cable			
18	53203357	4	Bolt DIN 912 M12-1,25-20 12.9			
19	53038012	4	Washer DIN 6798-A 12			
20	13814070	1	Electric Fuel Feed Pump 12V			
21	13814072	2	Straight Hose Connector 1/8" NPTF			
22	57000361	2	Washer 10-14-1,5			
23	52102154	2	Bolt DIN 933 M6-10 8.8			
24	51086015	1	One Ear Clamp With Interior Ring 13-15,3			
25	13814017.5	1	Fuel Pump Hose			
NS	58088283	1	Pastic Cable Zip Tie			
NS	60900126	1	TERMINAL			



17610230.6 Kit GearBox ZF 15 MIV						
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13810046	1	Flexible coupling type A SAE 6"1/2			
2	53033008	12	Washer GROWER DIN 127-8			
3	52103256	6	Bolt DIN 912 M8-16 8.8			
4	52102308	6	Bolt DIN 933 M10-25 8.8			
5	53038010	6	Washer DIN 6798-A 10			
6	17610017	1	Engine Adaptor			
7	13810037.3	1	Rear, Bracket			
8	53033010	4	Washer GROWER DIN 127-10			
9	52102309	4	Bolt DIN 933 M10-30 8.8			
10	52105307	2	Bolt DIN 7991 M10-20 10.9			
11	51030008	2	Washer DIN 125-8			
12	52120008	2	Nut DIN 934 M8 8.8			
13	14719115	1	Coupling,cable			
14	51030006	3	Washer DIN 125-6			
15	51051107	1	Pin DIN-94 1,6-16			
16	51030005	2	Washer DIN 125-5			
17	24810913	1	Clamp,CABLE			
18	24610901	1	Bracket, GearBox Control			
19	53203357	4	Bolt DIN 912 M12-1,25-20 12.9			
20	53038012	4	Washer DIN 6798-A 12			
21	13810037.2	1	Rear, Bracket			
22	52102257	4	Bolt DIN 933 M8-20 8.8			
23	13814070	1	Electric Fuel Feed Pump 12V			
24	13814072	2	Straight Hose Connector 1/8" NPTF			
25	57000361	2	Washer 10-14-1,5			
26	52102154	2	Bolt DIN 933 M6-10 8.8			
27	13814017.5	1	Fuel Pump Hose			
28	51086015	1	One Ear Clamp With Interior Ring 13-15,3			
NS	58088283	1	Pastic Cable Zip Tie			
NS	60900126	1	TERMINAL			

