



Engine SM-94

VERSION 2024-5

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.

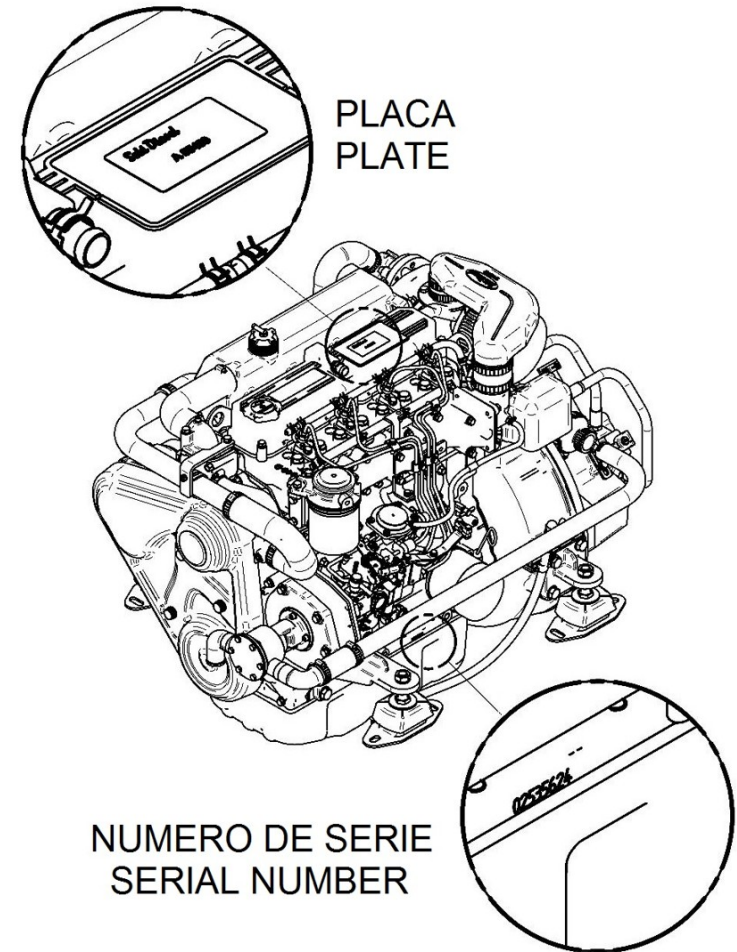
In case of doubt, contact Solé Diesel, or your authorized dealer.

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

SOLÉ, S.A.

C-243b, km, 2

08760 Martorell (Barcelona) Spain



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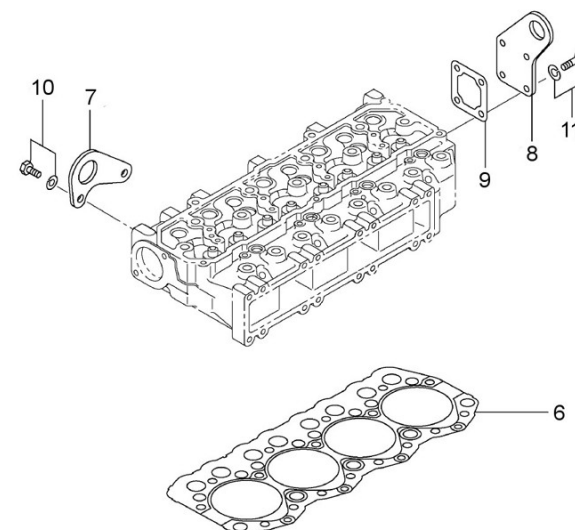
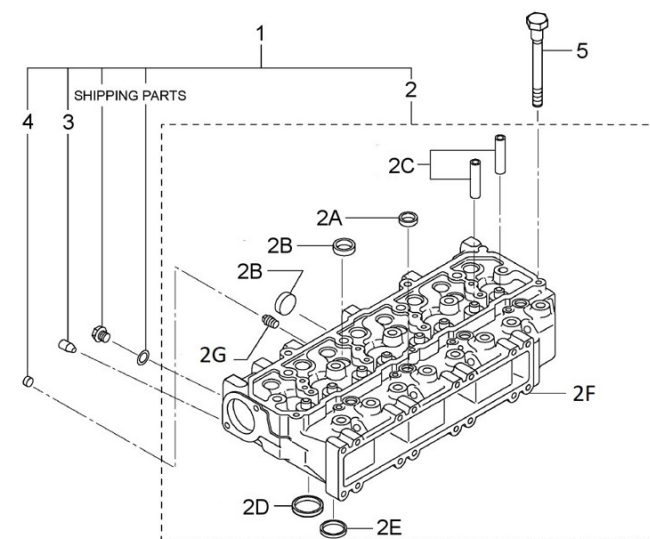
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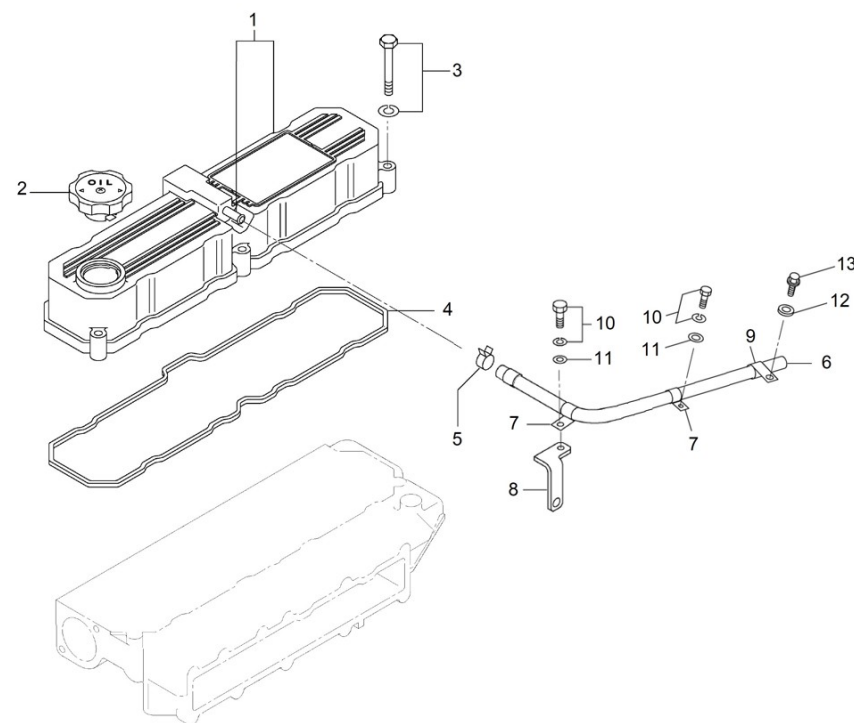
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Kit GearBox ZF 68 IV

D_MIF1_1_1		Cylinder Head			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17921001	1	Head Assy, Cylinder		
2	(*)	1	Not available		
2A	17220006	12	Cap, Sealing		
2B	13220012	7	Cap Sealing		
2C	17421002	8	Guide, Valve		
2D	17421061	4	Seat, Valve, IN		
2E	17421062	4	Seat, Valve, Exhaust		
2F	(*1)	1	Not available		
2G	17820011	4	Plug, Tapered		
3	17421046G.3	1	Plug		
4	17921013	4	Cap, Sealing		
5	17421005	17	Bolt, cylinder head		
6	17821005	1	Gasket, Cylinder Head		
7	17420014	1	Eye, Lifting, Front		
8	17421018	1	Eye, Lifting, Head Rea		
9	17421011	1	Gasket		
10	17821012	2	Bolt, W/Washer		
11	17421012G.1	4	Bolt W/Washer (Generator)		

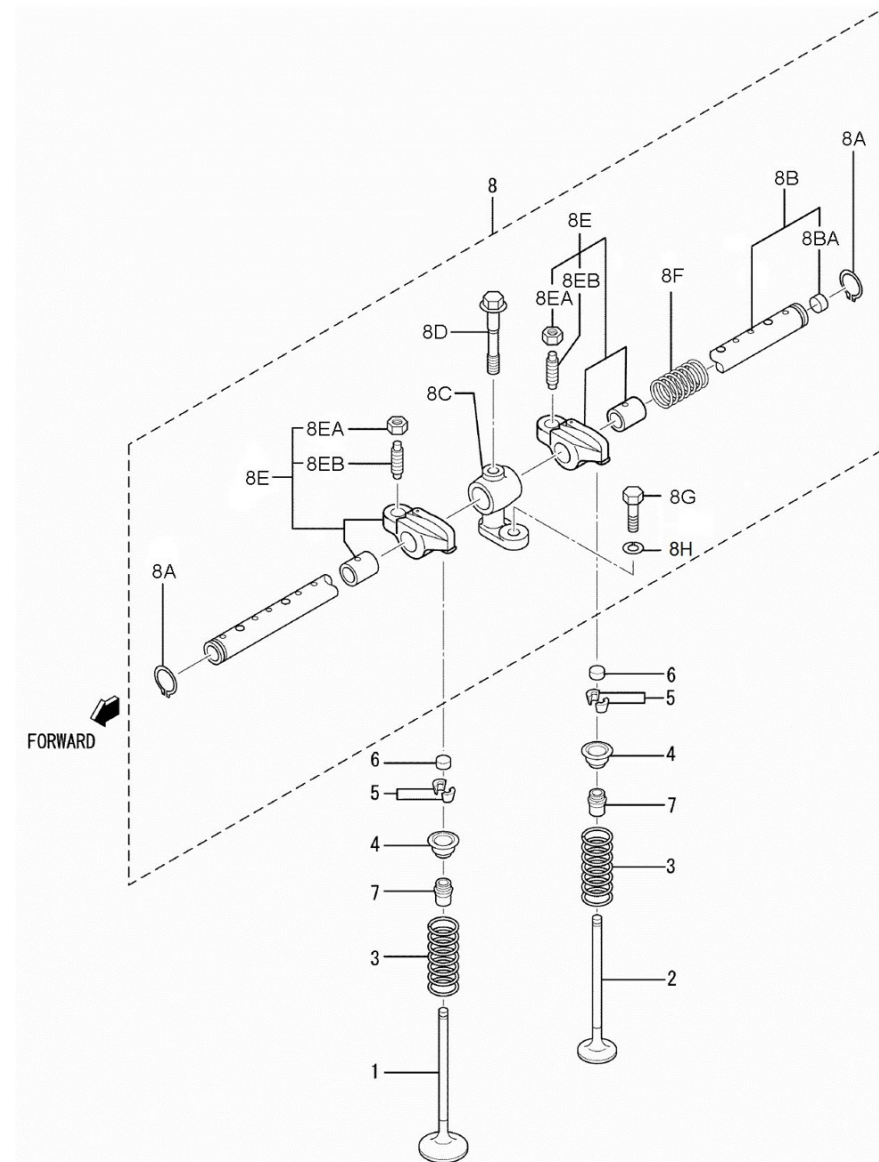


D_MIE1_1_2 Rocker Cover & Breather

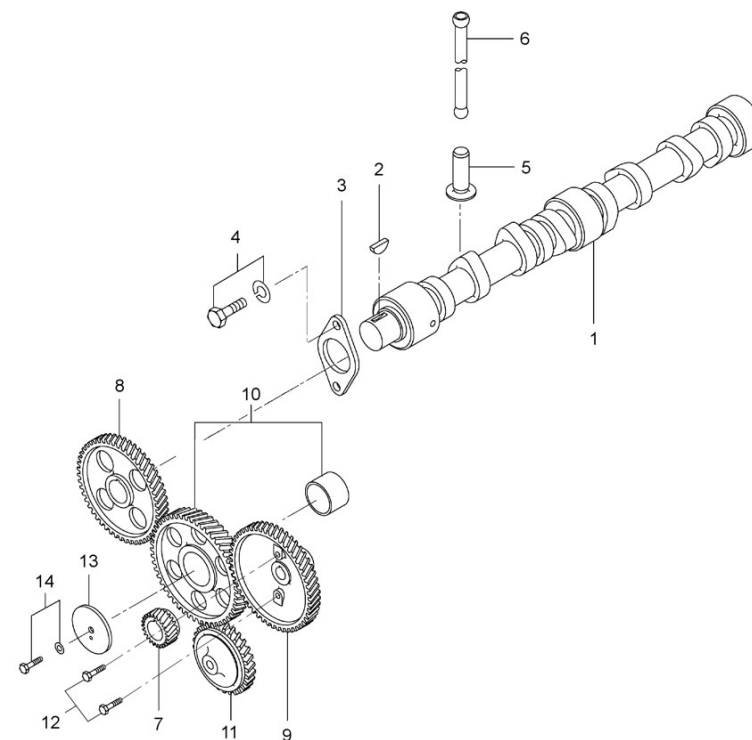
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17821009	1	Cover Assy,Rocker			
2	17821003	1	Cap Oil Filler			
3	17421014G.1	5	Bolt W/Washer (Generator)			
4	17421010	1	Rocker Cover Gasket			
5	17821007	1	Clip,Hose			
6	17821006	1	Hose			
7	17821002	2	Clip			
8	17821011	1	Stay, Breather Hose			
9	17821019	1	Clip			
10	17B21075	2	Bolt Washer A(6X16)			
11	17824034	2	Washer			
12	17124028	1	Retainer			
13	26113012	1	Screw M8X20			



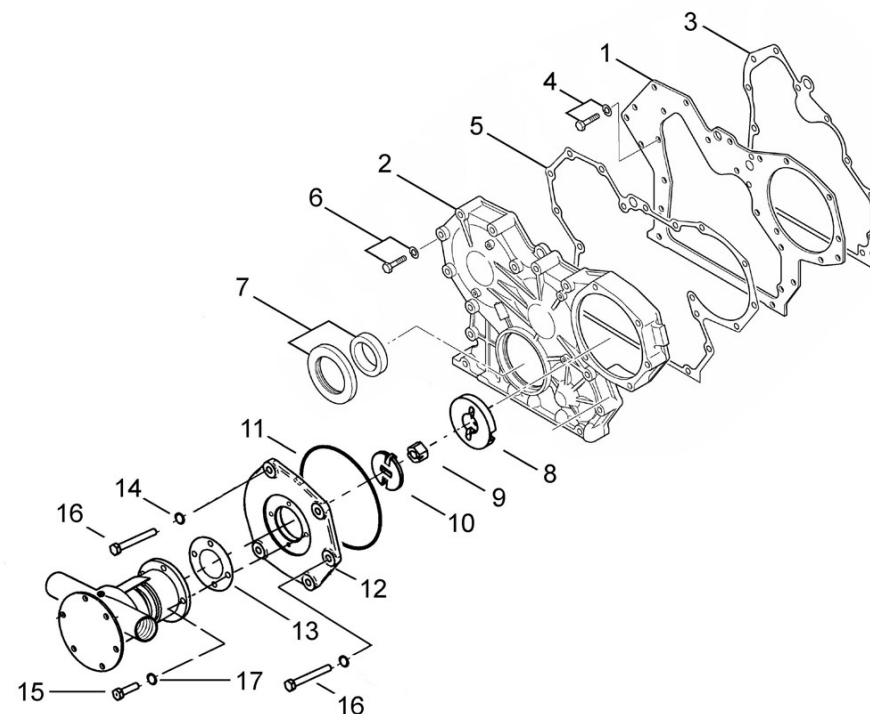
D_MIF1_1_3		Valve Drive				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17422055.1	4	Valve,Inlet			
2	17422056	4	Exhaust Valve			
3	13322028	8	Spring, valve outler			
4	17422058	8	Retainer,Upper			
5	17122059.1	16	Cotter,Valve			
6	13322024	8	Cap			
7	17422054	8	Seal,Valve Stem			
8	(*)	1	Not available			
8A	17222050	2	Ring, SNAP			
8B	17422046	1	Shaft Assy,Rocker			
8BA	13322023	2	Cap, Sealing			
8C	17422048	4	Bracket,Rocker Shaft			
8D	17422053	4	Bolt,Rocker Bracket			
8E	17422142.1	8	Rocker Assy			
8EA	17122060	8	Nut			
8EB	17122044	8	Screw Adjusting			
8F	17422047G.1	3	Spring,Rocker			
8G	52102258	4	Bolt DIN 933 M8-25 8.8			
8H	53033008	4	Washer GROWER DIN 127-8			



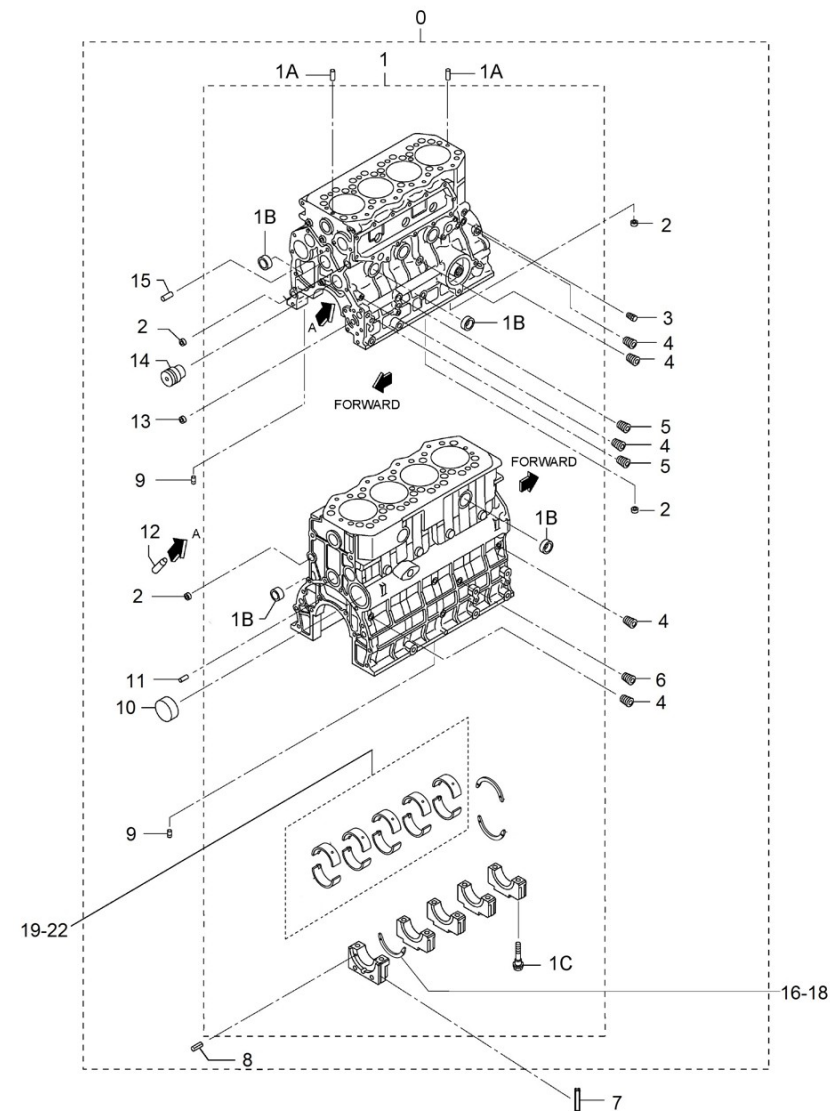
D_MIF1_1_4			Timing Parts		
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17922035	1	Camshaft		
2	13322034	1	Key Woodruff		
3	17422075	1	Plate,THRUST		
4	17422037G.1	2	Bolt W/Washer (Generator)		
5	17122061	8	Tappet		
6	17122041	8	Rod, push		
7	17822019	1	Gear, CrankShaft		
8	17422037	1	Gear,CamShaft Z=46		
9	17810023	1	Gear, drive		
10	17822038	1	Gear,IDLER Assy Z=49		
11	17422066	1	Gear,Oil Pump Z=31		
12	52103256	2	Bolt DIN 912 M8-16 8.8		
13	17122032	1	Plate, thrust		
14	17720010	1	Bolt,W/Washer		



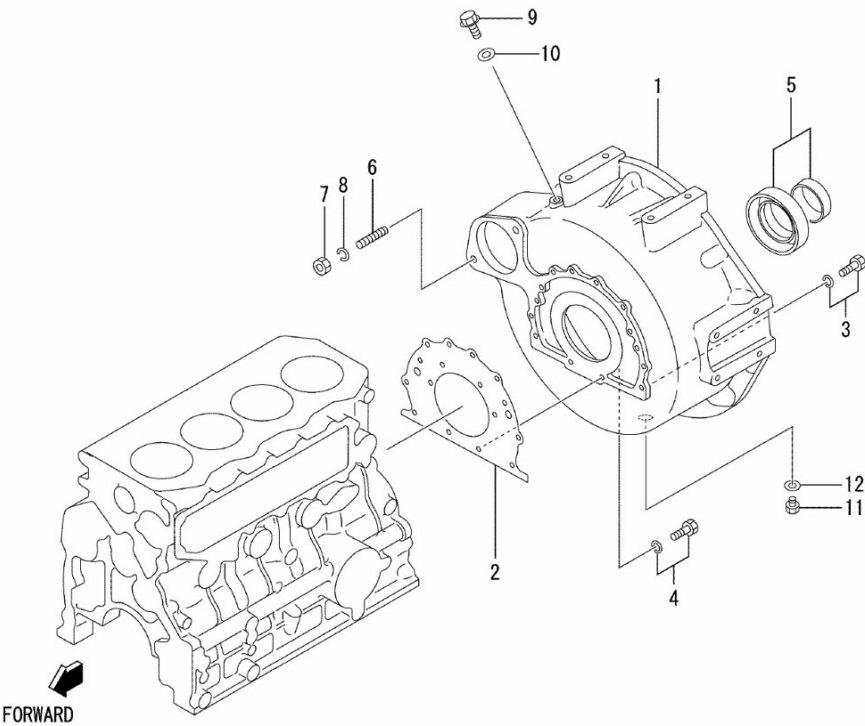
D_MIE1_1_5		Gear Case				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17420024G.1	1	Plate,Front (Generator)			
2	17420035G	1	Case,TIMING Gear			
3	17420018	1	Gasket,Front Plate			
4	17422037G.1	5	Bolt W/Washer (Generator)			
5	17420040	1	Gasket,Gear			
6	17520047	13	Bolt,W/Washer			
7	17420039.1	1	Seal Assy,Oil			
8	17811026	1	DriveR Plate,water pump			
9	17825002	1	Nut			
10	15310072	1	CrossHead Jaw Coupling			
11	17420047	1	O-Ring D. 140X2			
12	17810010	1	Block Water Pump			
13	13310013	1	Gasket,water pump			
14	53038008	5	Washer DIN 6798-A 8		26/06/2017	
15	52103156	4	Bolt DIN 912 M6-16 8.8			
16	52101269	5	Bolt DIN 931 M8-80 8.8			
17	51030006	4	Washer DIN 125-6			



D_MIF1_1_6		Crankcase				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
0	17820001	1	Crankcase Assy			
1	(*)	1	Not available			
1A	17120019	2	Pin, dowel			
1B	13320006	10	Cap, Sealing			
1C	17420009	10	Bolt Bearing Cap			
2	13320007	4	Cap, Sealing			
3	17120022	1	Plug, tapered			
4	17820011	5	Plug, Tapered			
5	17420027G.1	2	Plug,TAPPERED (Generator)			
6	17120021	1	Plug,taper			
7	17420112	2	Seal,Valve			
8	17420012	6	Pin,Spring			
9	17421046G.3	3	Plug			
10	17420013G.3	1	Plug			
11	13320025	2	Pin			
12	17820016	4	Pipe, Oil Jet			
13	17420011G.3	1	Bushing			
14	17420034	1	Shaft,IDLER			
15	17420036	2	Pin,Dowel			
16	17420109	3	Plate,THRUST.C/S STD			
17	17420110	3	Plate,THRUST.C/S +0,15			
18	17920004	3	Plate,THRUST.C/S +0,35			
19	17420003	1	METAL,MAIN Set STD			
20	17420004	1	METAL,MAIN Set -0,25			
21	17420005	1	METAL,MAIN Set -0,50			
22	17420006	1	METAL,MAIN Set -0,75			

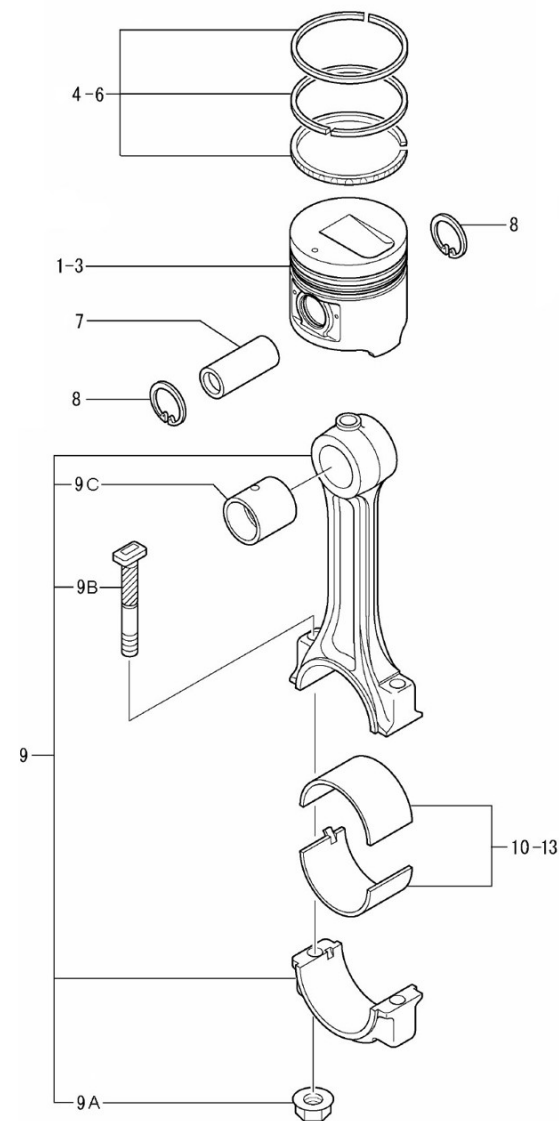


D_MIF1_1_7			Rear Plate			
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17820002	1	Flywheel Housing			
2	17420025	1	Gasket,Rear			
3	17327129.2	10	Bolt			
4	17420028G.1	2	Bolt,W/Washer (Generator)			
5	13320063	1	Seal Oil			
6	13320067	2	Stud			
7	17827003	2	Nut			
8	53033010	2	Washer GROWER DIN 127-10			
9	17121016	1	Plug, drain			
10	17121013	1	Gasket			
11	13224045	1	Plug			
12	56000077	1	Washer 18-23-1,5			

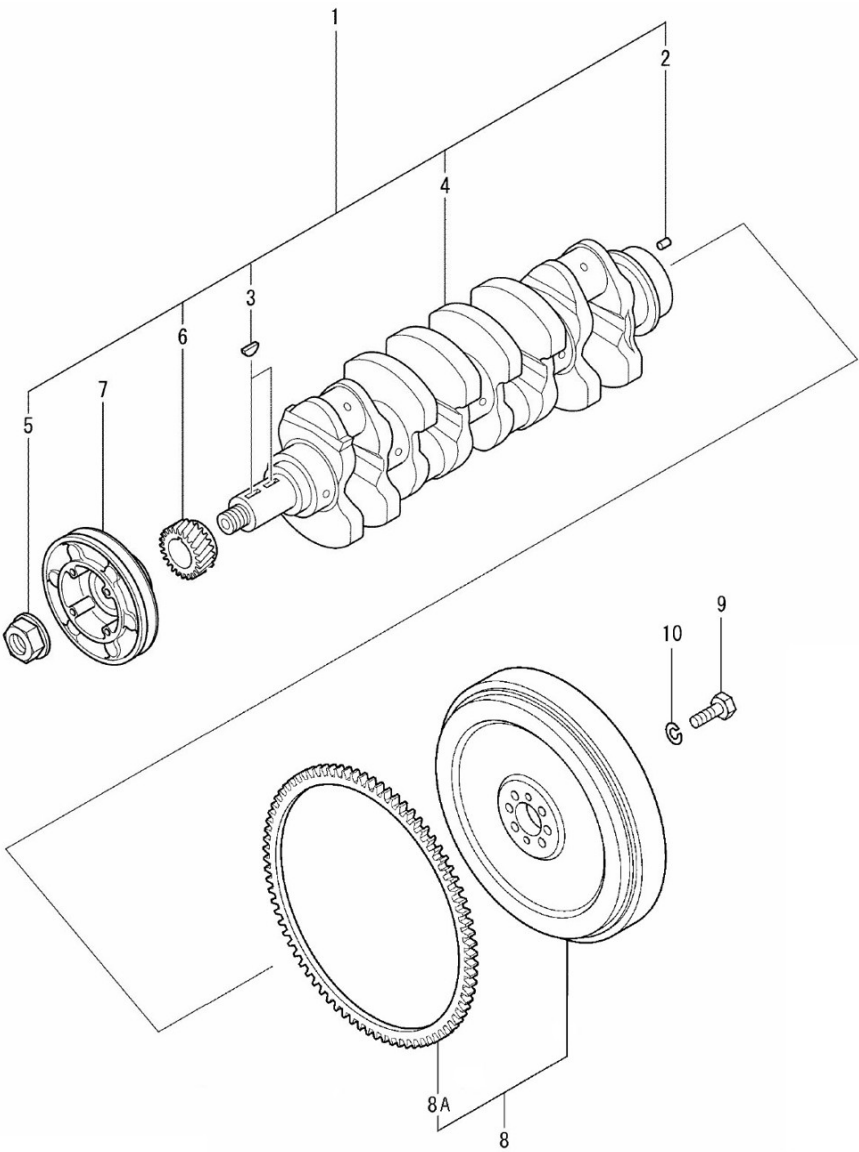


D_MIF1_1_8 Piston & Connectiong Rod

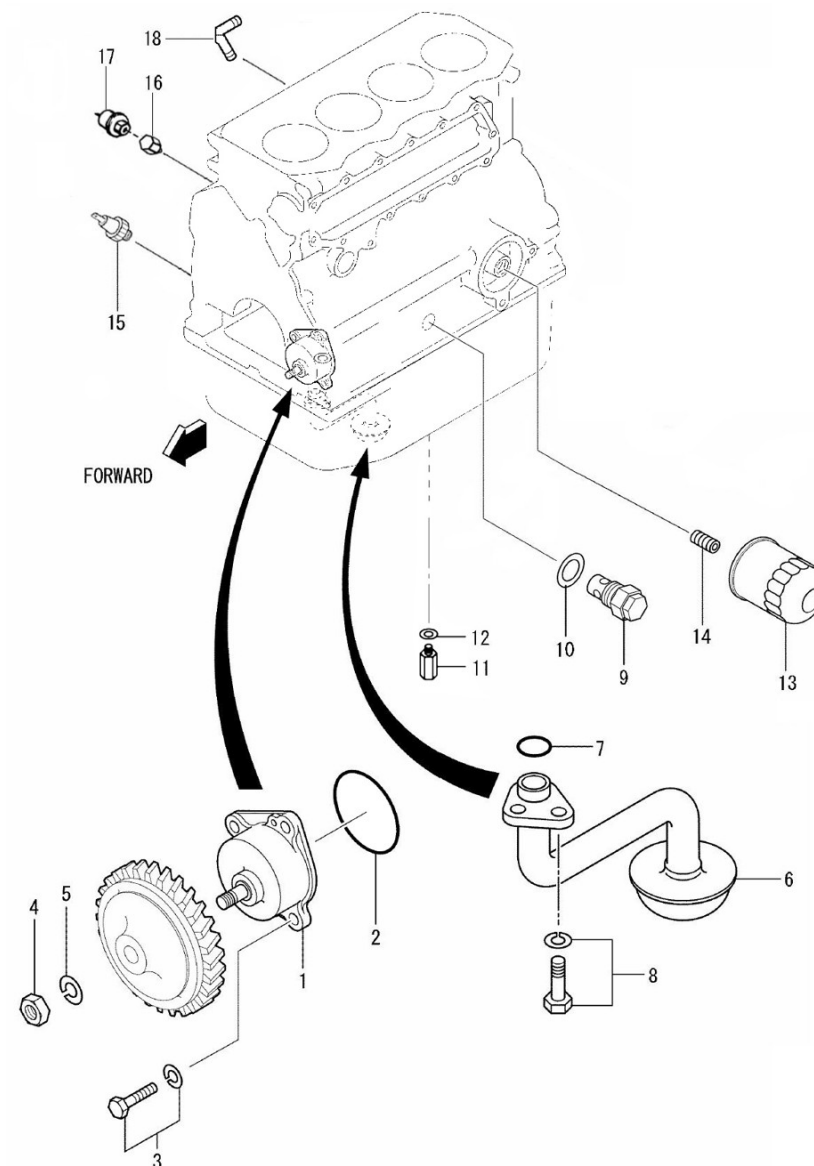
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17822001	4	Piston STD.			
2	17822002	4	Piston O.S 0,25			
3	17822003	4	Piston O.S 0,50			
4	17822006	4	Ring Set,Piston STD.			
5	17822007	4	Ring Set,Piston 0,25			
6	17822008	4	Ring Set,Piston 0,50			
7	17422009	4	Pin,Piston			
8	17422010	8	Ring,Snap			
9	17822012	4	Rod Assy. Connecting			
9A	17822011	8	Nut			
9B	17122013	8	Bolt,connecting rod			
9C	17422033	4	Bushing,Con-Rod			
10	17422014	1	Bearing Set,Con-Rod,STD.			
11	17422015	1	Bearing Set,Con-Rod,U.S -0,25			
12	17822016	1	Bearing Set, Con-Rod, U.S 0,50			
13	17822017	1	Bearing Set, Con-Rod, U.S 0,75			



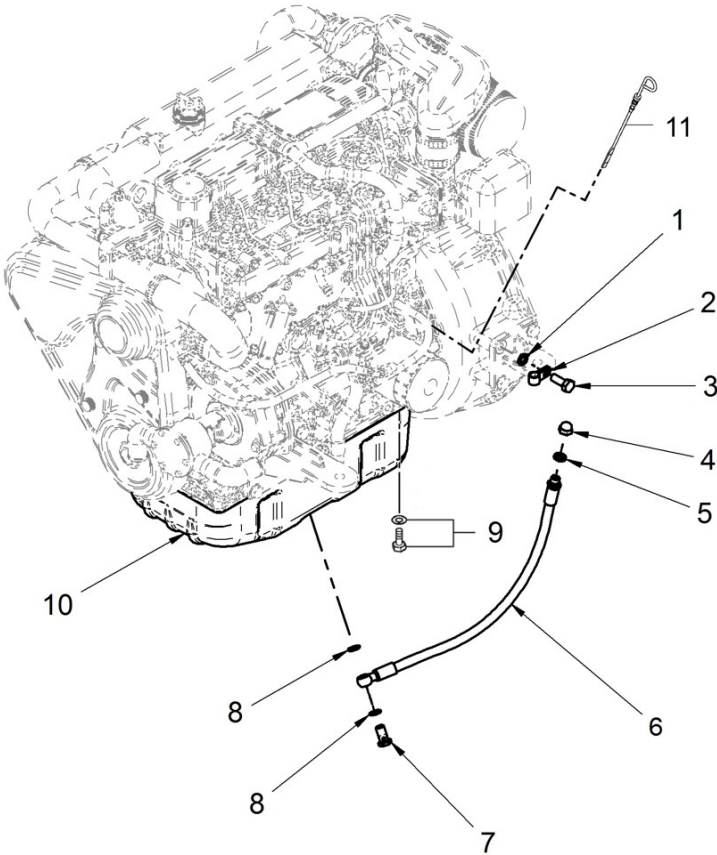
D_MIF1_1_9 Crankshaft & Flywheel					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17822018	1	CrankShaft Assy		
2	13322059	2	Pin		
3	13322034	2	Key Woodruff		
4	(*)	1	Not available		
5	17422026	1	Nut,CrankShaft		
6	17822019	1	Gear, CrankShaft		
7	17422024	1	Pulley CrankShaft		
8	17422027	1	Flywheel Assy		
8A	17422029	1	Gear,Ring Z=122		
9	13322065	6	Bolt		
10	53033012	6	Washer Grower DIN 127-12		



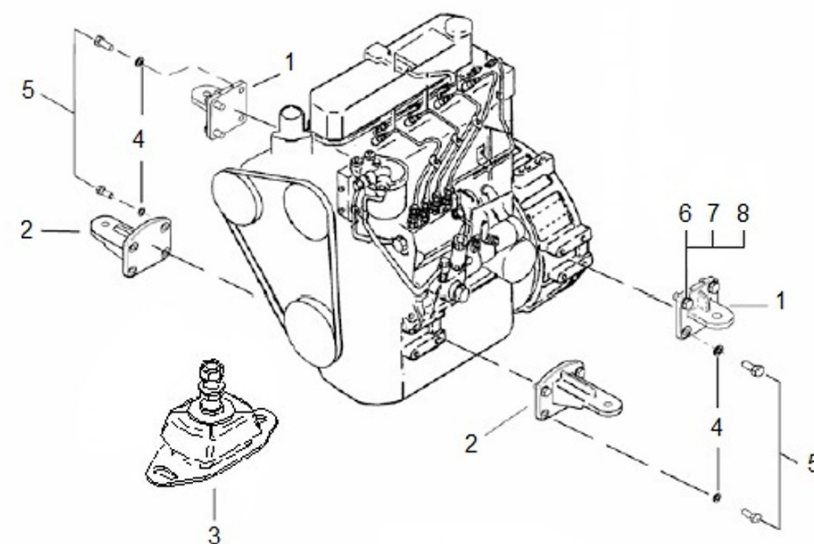
D_MIF1_1_10		Oil System				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17524040	1	Pump Assy,Oil			
2	17424055	1	O-Ring D. 60X2			
3	17421012G.1	4	Bolt W/Washer (Generator)			
4	13122045	1	Nut			
5	53033010	1	Washer GROWER DIN 127-10			
6	17424052	1	STrainer,Oil			
7	17424060	1	O-Ring D. 22X2,4			
8	17422037G.1	2	Bolt W/Washer (Generator)			
9	17124072	1	Valve, Assy			
10	17424063	1	Gasket			
11	17824071	1	Valve, Assy			
12	17420017	1	Gasket			
13	17424051	1	Oil Filter Element MINI-74/SM-82/94			
14	17424054	1	Union,Oil Filter			
15	17827027	1	Switch, Oil pressure			
16	17117052	1	Oil Pressure Sensor Adaptor			
17	60900985	1	Pressure Sensor			
18	17712007	1	Elbow 1/8" GAS			



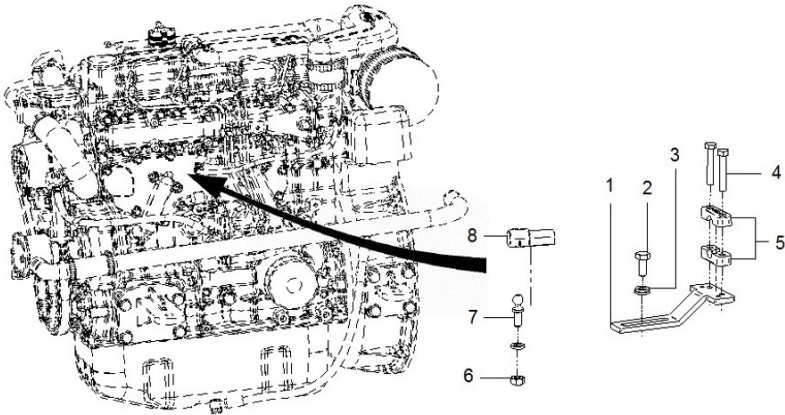
D_MIE1_1_11 Oil Pan					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	53033012	1	Washer Grower DIN 127-12		
2	17214022	1	Bracket, Pipe		
3	52102360	1	Bolt DIN 933 M12-35 8.8		
4	16514020	1	Plug		
5	56000217	1	Washer 13-20-3		
6	17114021	1	Extraction Hose		
7	12814051	1	Screw,eye		
8	56000069	2	Washer 14-20-1,5		
9	17821012	24	Bolt,W/Washer		
10	17420030	1	Oil PAN Assy		
11	17420029	1	Gauge Oil LEVEL		



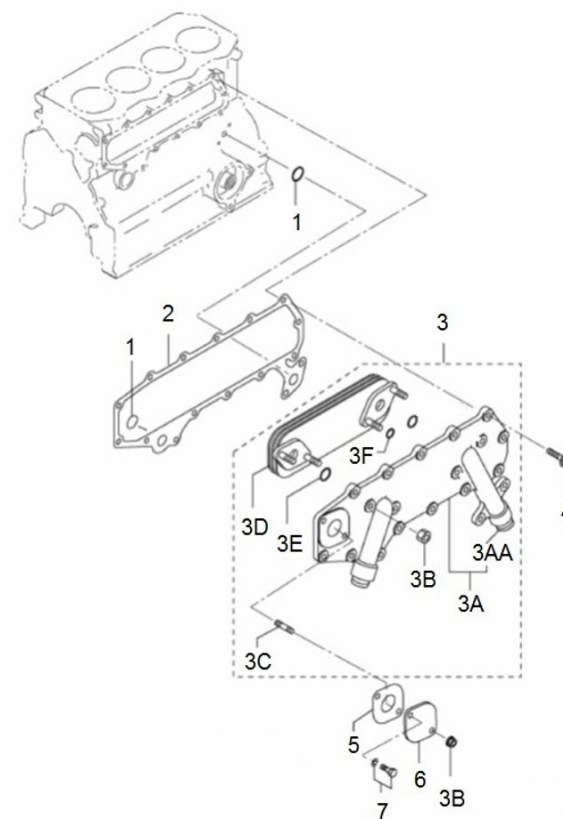
D_MIE1_1_12		Engine Brackets				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17410002	2	Rear Bracket			
2	17410001	2	Front Bracket			
3	61652010	4	Engine Mount Type D 45 SHA M16 H 105			
4	53033012	16	Washer Grower DIN 127-12			
5	52102359	15	Bolt DIN 933 M12-30 8.8			
6	51030012	1	Washer DIN 125-12			
7	52102360	1	Bolt DIN 933 M12-35 8.8			
8	17214022	1	Bracket, Pipe			



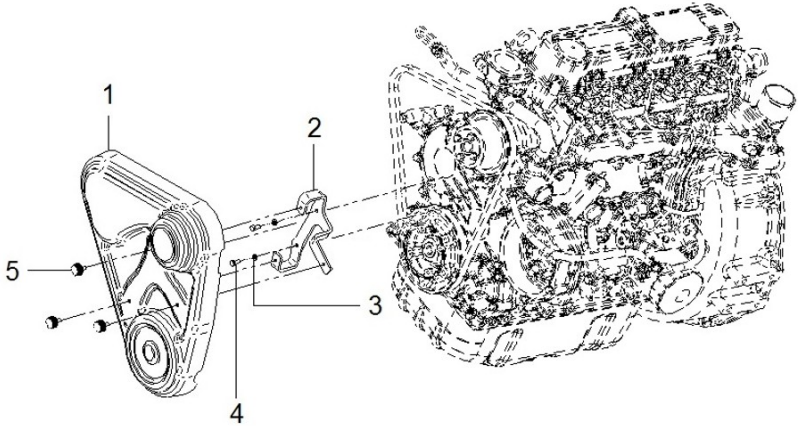
D_MIE1_1_13 Bracket, Engine Control					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17819001	1	Bracket, Engine Control		
2	52102156	1	Bolt DIN 933 M6-16 8.8		
3	53033006	1	Washer GROWER DIN 127-6		
4	52102108	2	Bolt DIN 933 M5-20 8.8 CINCADO		
5	13819001	2	Half Flange Morse Cable		
6	52120006	1	Nut DIN 934 M6 8.8		
7	14419023	1	Ball JOINT		
8	15119015	1	CABLE Holder Ball		



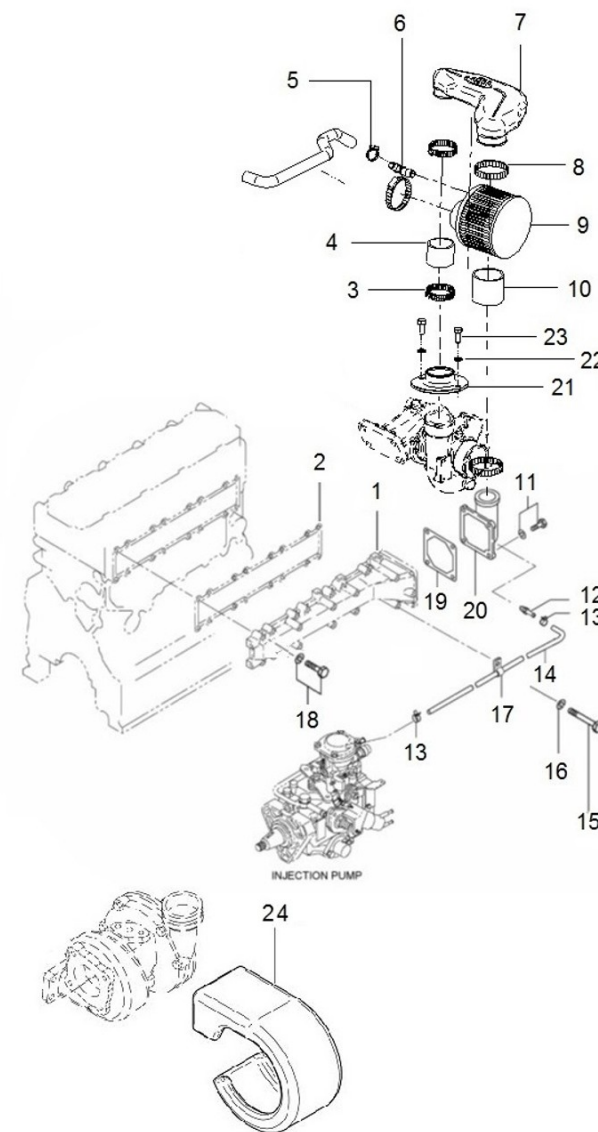
D_MIE1_1_14		Oil cooler				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17424060	2	O-Ring D. 22X2,4			
2	17822112	1	Gasket, Side Cover			
3	17822110	1	Cooler Assy, Oil			
3A	17822111	1	Case Assy, Oil Cooler			
3AA	17822120	1	Plug Tapered			
3B	17125008.1	5	Nut, Flange			
3C	13321019	1	Stud			
3D	17822114	1	Element, Oil Cooler			
3E	17520017	2	O-Ring D. 30X3,4			
3F	17822115	4	O-Ring			
4	17822116	15	Bolt, Flange			
5	17420048	1	Gasket			
6	17822117	1	Cover			
7	17822118	1	Bolt, Flange			



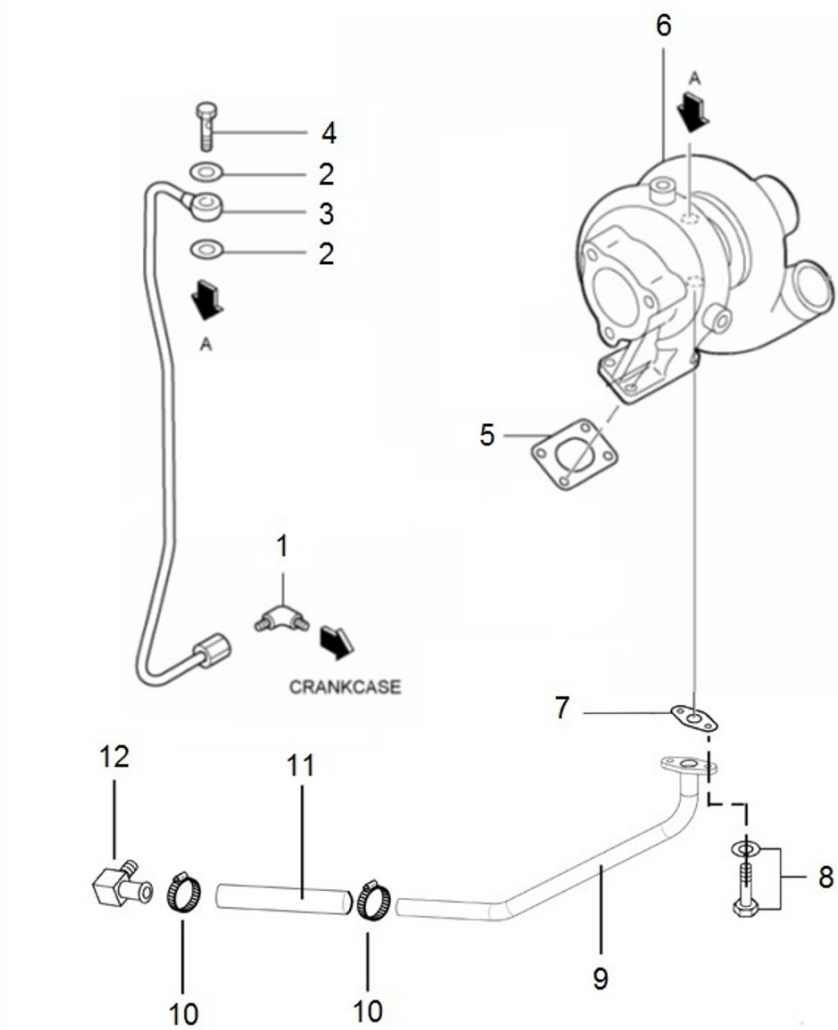
D_MIE1_1_15 Belt Protection					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17810021	1	Belt Protection		
2	17810022	1	Bracket Protection Belt		
3	53033006	2	Washer GROWER DIN 127-6		
4	52102156	2	Bolt DIN 933 M6-16 8.8		
5	13810247	3	Grip Knob M6		



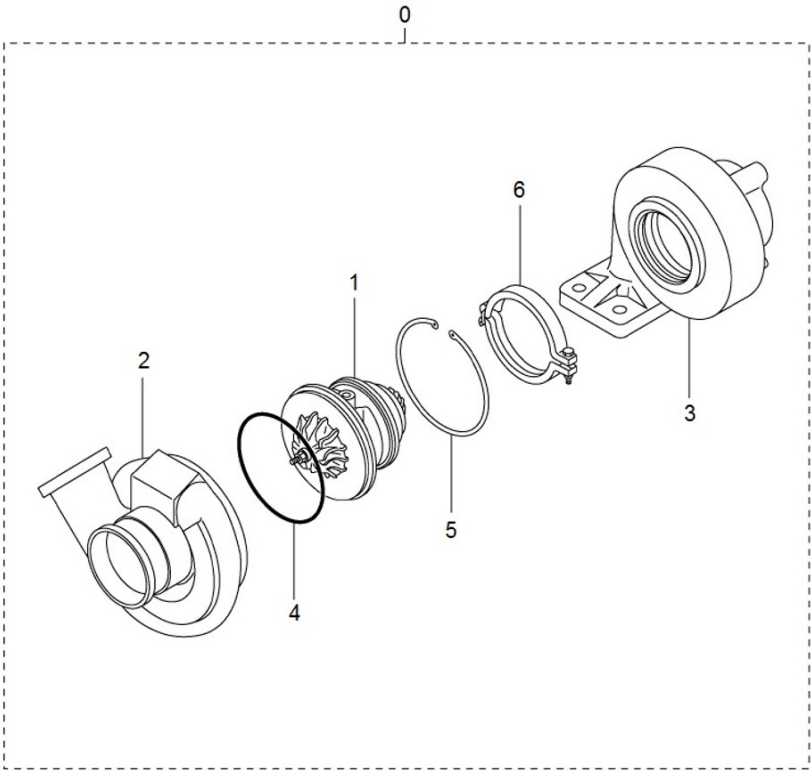
D_MIF1_2_1		Inlet			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17821030	1	Manifold Assy,Inlet		
2	17421032	1	Gasket IN.MANIFOLD		
3	54082040	2	Clamp DIN 3017 40-60/12 W4		
4	17810030	1	Hose		
5	54081020	1	Clamp DIN 3017 20-32/9 W4		
6	17810013	1	Elbow,Frared Tube		
7	17810017	1	Adaptor		
8	54082050	3	Clamp DIN 3017 50-70/12 W4		
9	17910012	1	Air Filter		
10	17810031	1	Hose		
11	17125004.1	4	Bolt		
12	17821013	1	Nipple, Air		
13	17821017	2	Clip,Hose		
14	17821015	1	Cap,Sealing		
15	17421014G	2	Bolt (Generator)		
16	53033008	4	Washer GROWER DIN 127-8		
17	17821016	1	Clip,Hose		
18	17421014G.1	14	Bolt W/Washer (Generator)		
19	17421042	1	Gasket		
20	17821029	1	Elbow, Air Inlet		
21	17910020	1	Spacer, Turbocharger		
23	52102257	2	Bolt DIN 933 M8-20 8.8		
24	17818010	1	Termic, Bucklers	07/12/2016	



D_MIF1_2_2		Turbocharger				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17812007	1	Elbow			
2	17124056	2	Gasket			
3	17712006	1	Pipe			
4	17828006	1	Bolt, Eye			
5	17420049	1	Gasket			
6	17928012	1	Turbocharger, Assy			
7	17712004	1	Gasket			
8	52102156	2	Bolt DIN 933 M6-16 8.8			
9	17912005	1	Pipe			
10	54081020	2	Clamp DIN 3017 20-32/9 W4			
11	17728007	1	Hose,Oil			
12	17728008	1	Elbow			



D_MIF1_2_3		Spare parts, Turbocharger				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
0	17928012	1	Turbocharger, Assy			
1	17928012.9	1	Rotor, Turbine			
2	17928012.8	1	Cover, Compressor			
3	17928012.10	1	Housing, Turbine			
4	17928012.6	1	O-Ring			
5	17828012.10	1	Ring, Snap			
6	17828002.9	1	Coupling Assy			

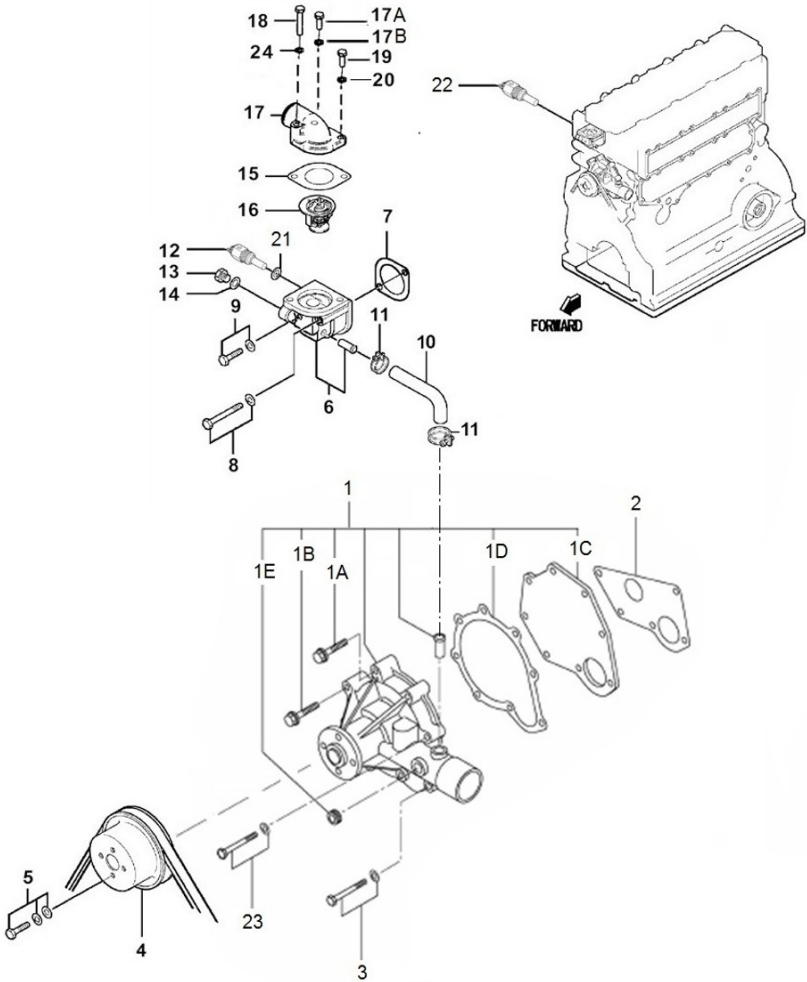


This exploded view diagram illustrates the assembly of a 2-cylinder engine. The components are numbered as follows:

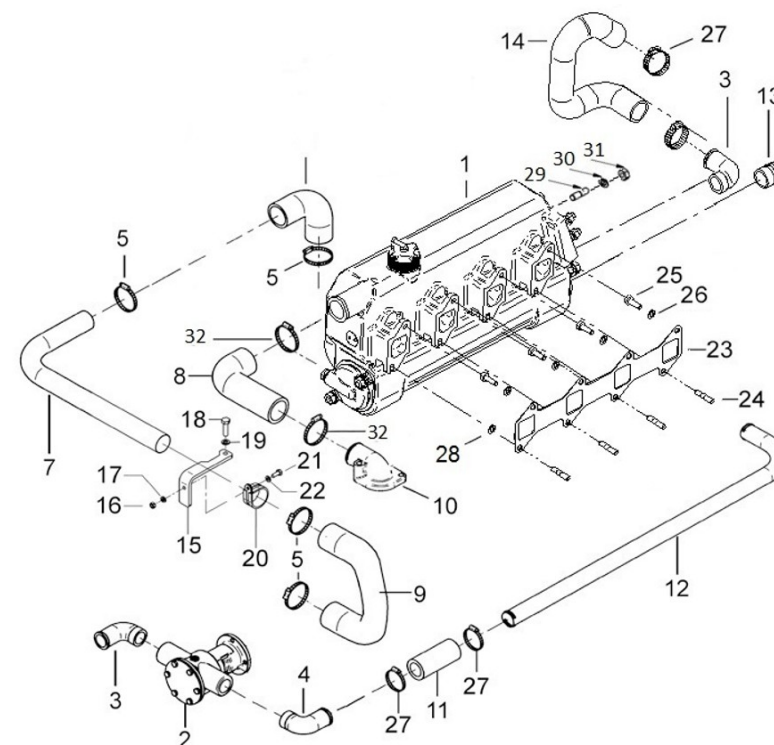
- 1**: Main engine block
- 2**: Gasket
- 3**: Bracket
- 4**: Pulley
- 5**: Bolt
- 6**: Bracket
- 7**: Ring
- 8**: Bracket
- 9**: Bolt
- 10**: Pipe
- 11**: Bolt
- 12**: Bolt
- 13**: Bolt
- 14**: Bolt
- 15**: Gasket
- 16**: Bolt
- 17**: Bolt
- 17A**: Bolt
- 17B**: Bolt
- 18**: Bolt
- 19**: Bolt
- 20**: Bolt
- 21**: Bolt
- 22**: Bolt
- 23**: Bolt

A **FORWARD** arrow indicates the orientation of the engine block.

D_MIF1_3_1		Water Pump			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
24	53038008	1	Washer DIN 6798-A 8		

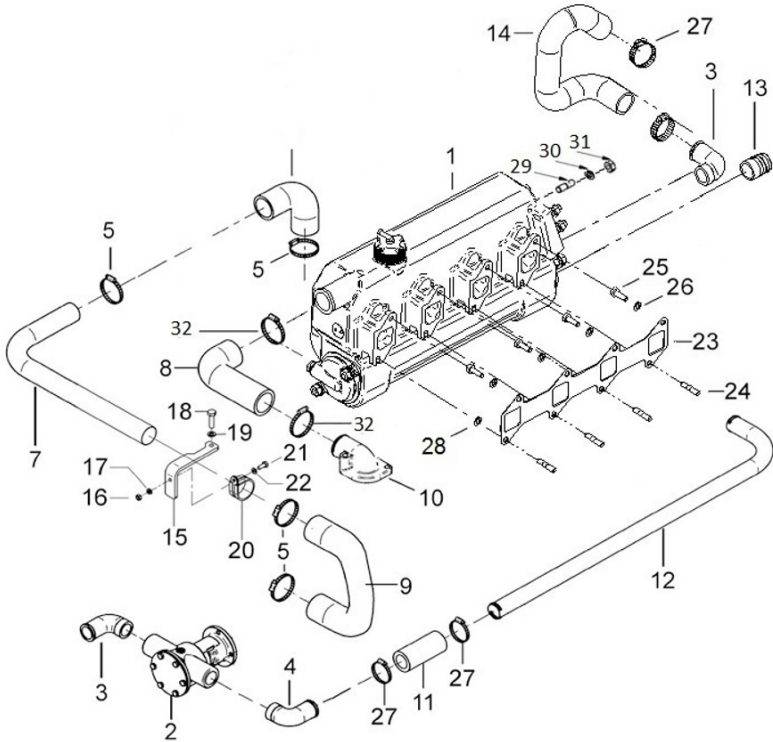


D_MIF1_3_2		Cooler Pipes			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17911000REC	1	Water Cooler Assy SM-94		
2	37811000	1	Cross Brace Pump 1" SM-82/94 Gen.SM-81		
3	14711021	2	Elbow N°1		
4	14711022	1	Elbow N°2		
5	54082032	4	Clamp DIN 3017 32-50/12 W4		
6	15211026	1	Elbow,rubber		
7	17011022	1	Pipe,from cooler to engine		
8	17411013	1	Thermostat Water Outlet Elbow		
9	16711016	1	Rubber Elbow		
10	17111020	1	Fitting,water outlet		
11	13211036	1	Pipe 30-40-100		
12	17411011	1	Pipe		
13	60180007	1	Outlet Coupling		
14	17811034	1	Rubber Wet Exhaust Inlet Bend		
15	17511014	1	Bracket		
16	52120006	1	Nut DIN 934 M6 8.8		
17	53033006	1	Washer GROWER DIN 127-6		
18	52102259	1	Bolt DIN 933 M8-30 8.8		
19	53033008	1	Washer GROWER DIN 127-8		
20	59071383	1	Clamp TYP.1 38/15 W1		
21	52102157	1	Bolt DIN 933 M6-20 8.8		
22	51030006	1	Washer DIN 125-6		
23	17421035	1	Gasket,Exhaust Manifold		
24	14711008	4	Stud,cover		
25	52102258	4	Bolt DIN 933 M8-25 8.8		
26	53038008	4	Washer DIN 6798-A 8		
27	54082025	4	Clamp DIN 3017 25-40/12 W4		
28	51125008	4	Nut Exhaust		
29	16511007	4	Stud		
30	53033010	4	Washer GROWER DIN 127-10		
31	55120110	4	Nut DIN 934 M10		



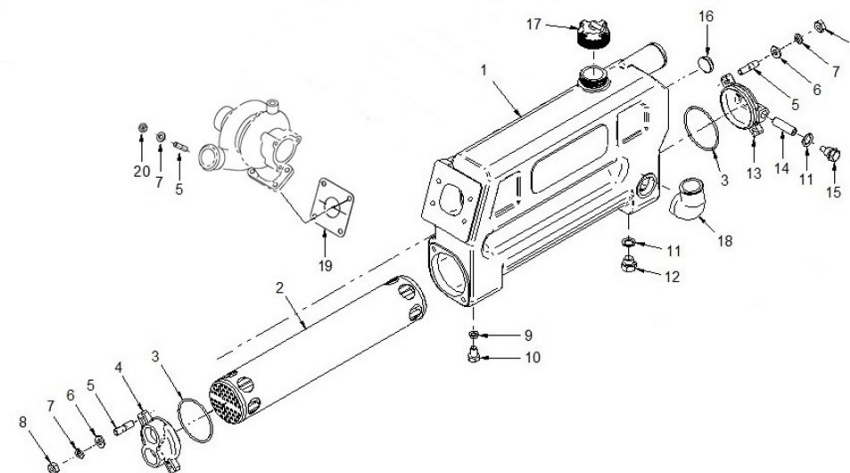
D_MIF1_3_2 Cooler Pipes

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	54082040	2	Clamp DIN 3017 40-60/12 W4			



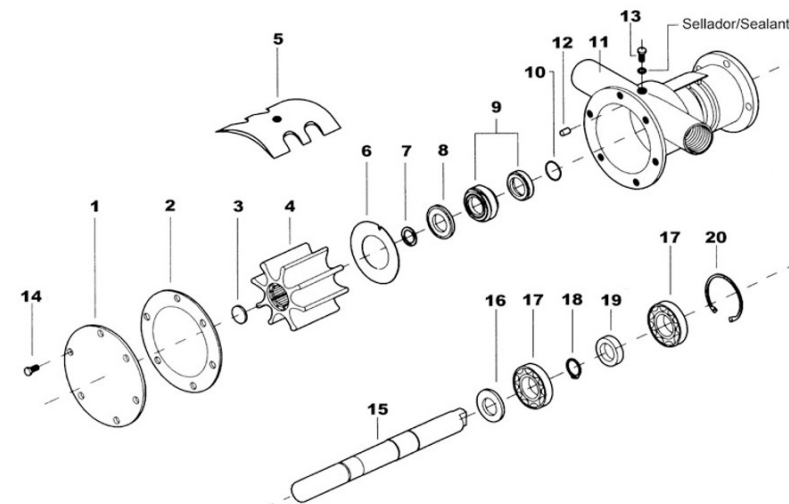
D_17911000REC Water Cooler Assy SM-94

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17811001	1	Body, Warter Cooler			
2	18011004	1	Tubular Bundle			
3	18011008	2	O-Ring D. 72X3			
4	17411003	1	Water Cooler Cover			
5	16511007	8	Stud			
6	51030010	4	Washer DIN 125-10			
7	53033010	8	Washer GROWER DIN 127-10			
8	52120010	4	Nut DIN 934 M10 8.8			
9	56000205	1	Washer 10-16-3			
10	54102306	1	Bolt DIN 933 M10-16 INOX.			
11	56000073	2	Copper Washer 16-23-1,5			
12	12111076	1	Plug			
13	18011002	1	Water Cooler Cover			
14	18011031	1	Engine Anode 45 mm M.8			
15	18011009	1	Anode Plug			
16	12113092	1	Plug			
17	13811010	1	Cap			
18	17111011	1	Elbow 1 1/8"			
19	17420049	1	Gasket			
20	55120110	4	Nut DIN 934 M10			
NS	17911040	1	SM-94 Cooler Adhesive			

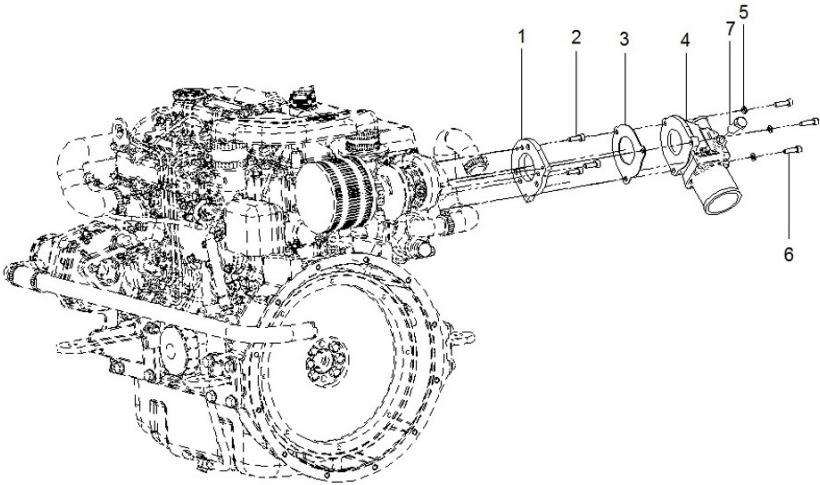


37811000 Cross Brace Pump 1" SM-82/94 Gen.SM-81

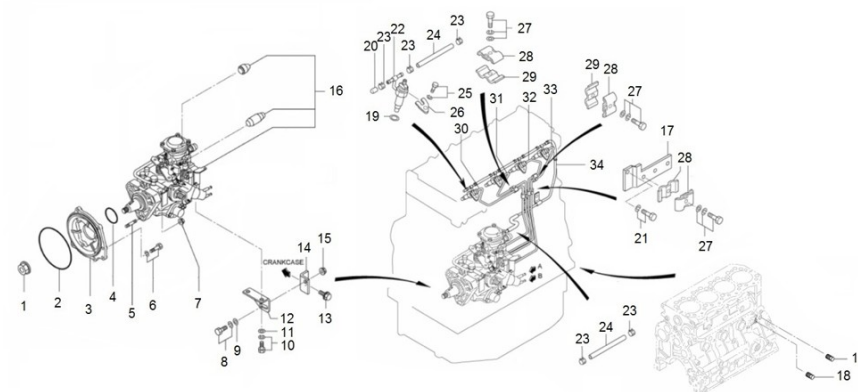
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	34711002	1	Cover Pump			
2	34711003	1	Gasket Cover			
3	34711041	1	Impeller Plug			
4	34711008	1	1" Impeller			
5	37811005	1	Cam 6,5 mm			
6	34711026	1	Plate,Friction			
7	54040016	1	CIRClip E-16			
8	36511018	1	Washer,seal			
9	36511019	1	Seal			
10	33311013	1	O-Ring D. 15X2			
11	36511001	1	Body,water pump			
12	36511017	1	Pin,Dowel			
13	54108154	1	Bolt DIN 84 M6-10			
14	54102154	6	Bolt DIN 933 M6-10 INOX			
15	36511010	1	Shaft,pump			
16	36511015	1	Spacer 17X24X7			
17	33311014	2	Ball Bearing 6203			
18	53040017	1	Circlip DIN 471 E-17			
19	36511020	1	Seal 16-30-7			
20	53041040	1	Circlip DIN 472 I-40			



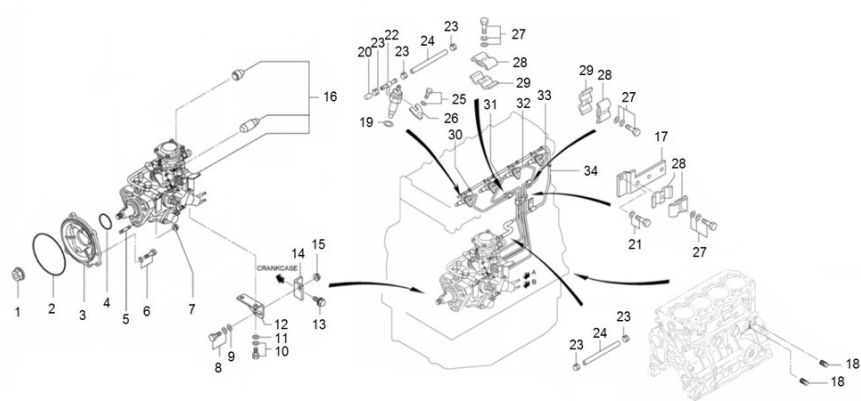
D_MIF1_3_5		Wet Exhaust				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17813014	1	Adaptor			
2	52103258	3	Bolt DIN 912 M8-25 8.8			
3	17813016	1	Gasket			
4	17813015	1	Elbow,wet exhaust			
5	53033008	3	Washer GROWER DIN 127-8			
6	52103259	3	Bolt DIN 912 M8-30 8.8			
7	55102405	1	Bolt DIN 933 M14-1,50-12 Brass		06/05/2024	



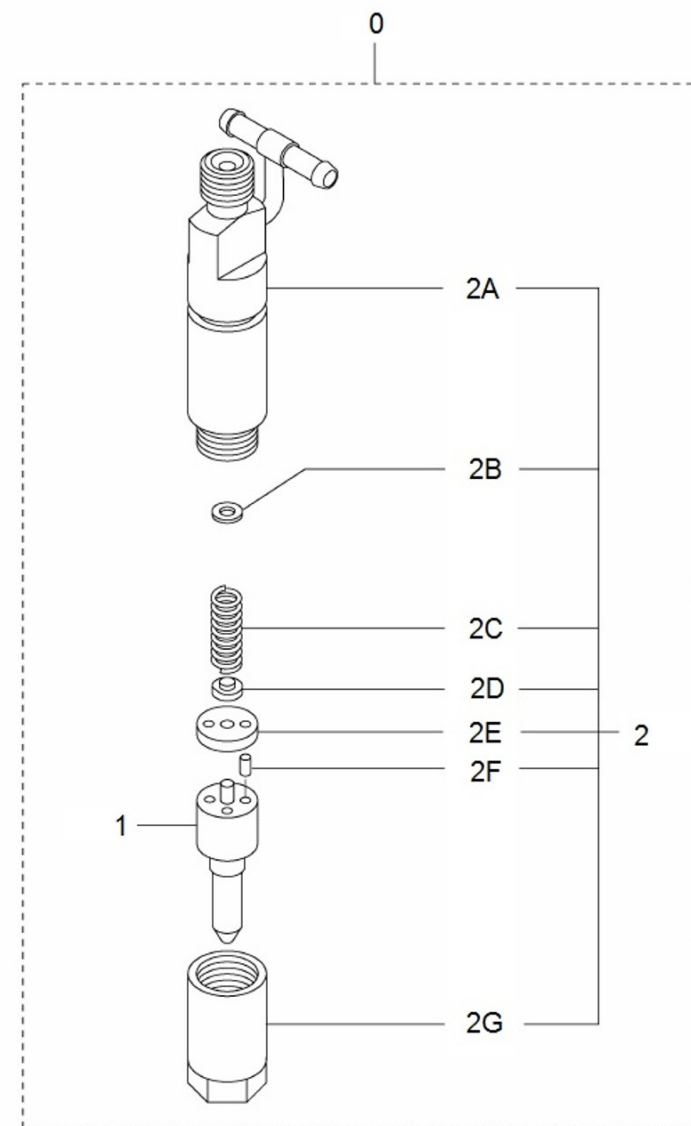
D_MIF1_4_1		Fuel Pipe				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17825002	1	Nut			
2	17825006	1	O-Ring			
3	17825005	1	Flange, Inj. Pump			
4	17825007	1	O-Ring			
5	17125009.1	3	Stud			
6	17721012	1	Bolt,W/Washer			
7	17125008.1	3	Nut,Flange			
8	17120062	1	Bolt,w/washer			
9	17825010	1	Washer			
10	17825011	2	Bolt,W/Washer			
11	51030010	2	Washer DIN 125-10			
12	17825013	1	Bracket , Injection Pump			
13	17425036	1	Bolt,Flange			
14	17825015	1	Bracket , Injection Pump			
15	17825016	1	Nut, Flange			
16	17933008	1	Pump Assy,Fuel Injection			
17	17824014	1	Stay			
18	17120022	2	Plug, tapered			
19	17824007	4	Gasket, Nozzle			
20	17824008	1	Cap			
21	17422037G.1	1	Bolt W/Washer (Generator)			
22	17926001	4	Nozzle, Assy			
23	17824006	11	Clip,Hose			
24	17824005	5	Hose			
25	17822118	4	Bolt, Flange			
26	17824013	4	Support, Nozzle			
27	17524025	4	Bolt,W/Washer			
28	17824011	6	Clamp			
29	17824012	2	Clamp			
30	17824015	1	Pipe Injection N.1			
31	17824016	1	Pipe Injection N.2			



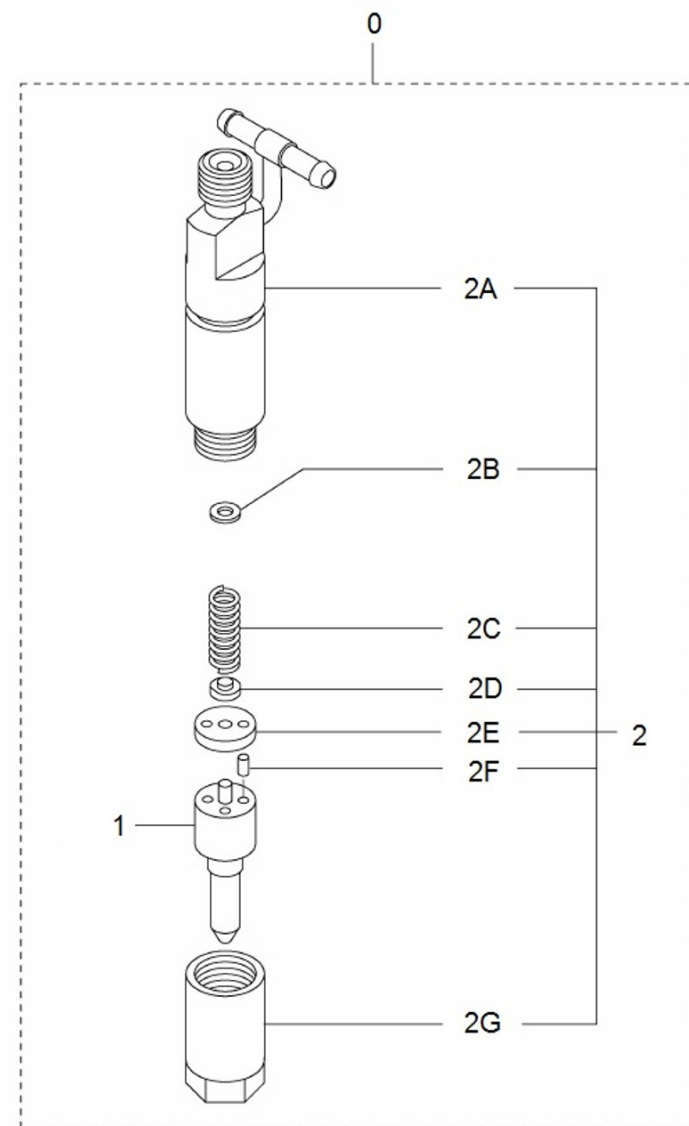
D_MIF1_4_1 Fuel Pipe					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
32	17824019	1	Pipe Injection N.3		
33	17824022	1	Pipe Injection N.4		
34	17824002	1	Pipe, Fuel Return		



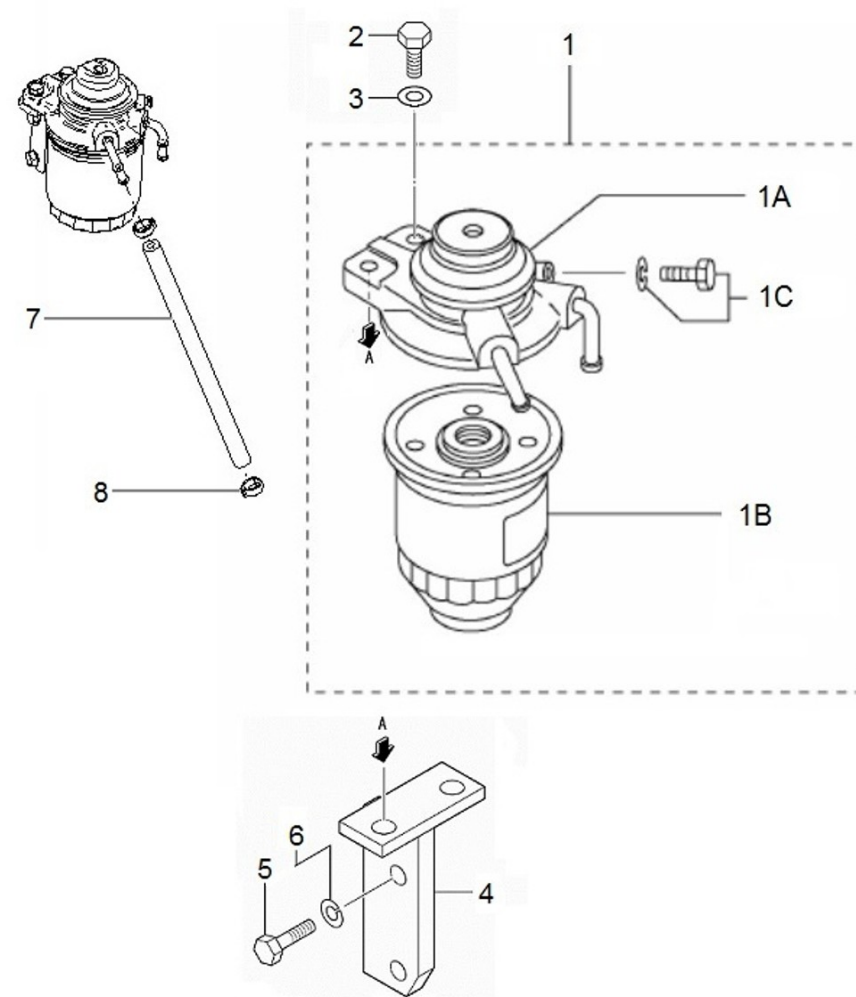
D_MIF1_4_2			Injection Nozzle		
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
0	17926001	4	Nozzle, Assy		
1	17928018	4	Tip Assy, Nozzle		
2	17926003	4	Holder		
2A	17926002	4	Body, Assy		
2BAA	17826020	0	Washer	#	
2BAB	17026144	0	Washer 1,050	#	
2BAC	17026145	0	Washer 1,100	#	
2BAD	17026146	0	Washer 1,150	#	
2BAE	17026010	0	Washer 1,20	#	
2BAF	17026011	0	Washer 1,25	#	
2BAG	17026012	0	Washer 1,30	#	
2BAH	17026013	0	Washer 1,35	#	
2BAI	17926014	0	Washer 1,400	#	
2BAJ	17926015	0	Washer 1,450	#	
2BAK	17026016	0	Washer 1,50	#	
2BAL	17026017	0	Washer 1,55	#	
2BAM	17026019	0	Washer 1,60	#	
2BAN	17026020	0	Washer 1,65	#	
2BAO	17926021	0	Washer 1,700	#	
2BAP	17026022	0	Washer 1,75	#	
2BAQ	17026023	0	Washer 1,80	#	
2BAR	17026131	0	Washer 1,275	#	
2BAS	17026132	0	Washer 1,325	#	
2BAT	17026133	0	Washer 1,375	#	
2BAU	17026134	0	Washer 1,425	#	
2BAV	17026135	0	Washer 1,475	#	
2BAW	17926099	0	Washer 0,950	#	
2BAX	17926100	0	Washer 0,700	#	
2BAY	17926101	0	Washer 0,750	#	
2BAZ	17926102	0	Washer 0,800	#	
2BBA	17926103	0	Washer 0,850	#	



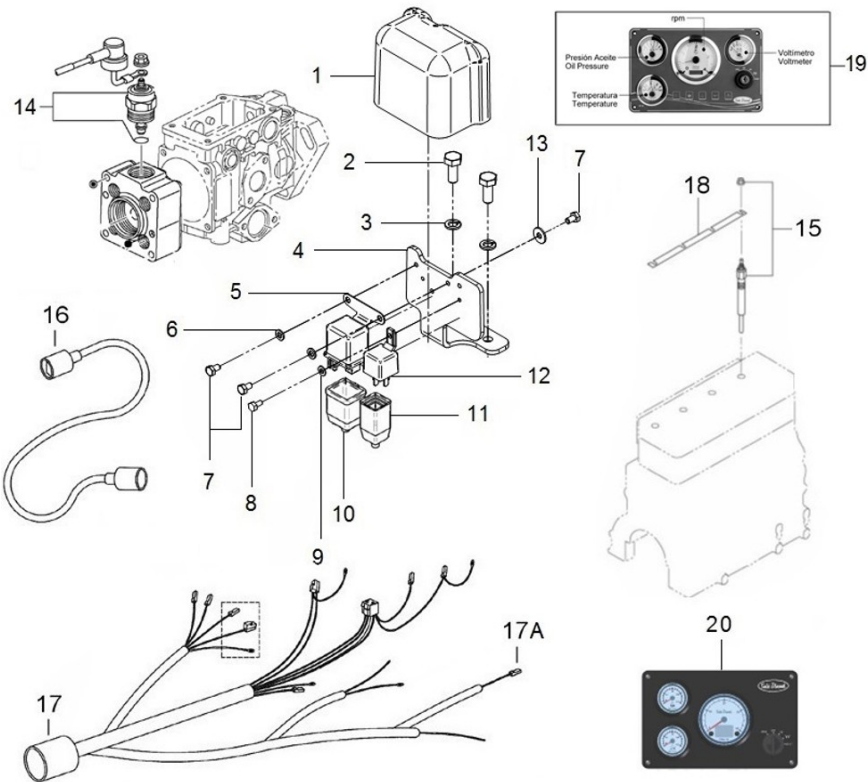
D_MIF1_4_2		Injection Nozzle			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
2BBB	17926104	0	Washer 0,900	#	
2BBC	17926105	0	Washer 0,975	#	
2BBD	17926106	0	Washer 1,025	#	
2BBE	17926107	0	Washer 1,075	#	
2BBF	17926108	0	Washer 1,125	#	
2BBG	17926109	0	Washer 1,175	#	
2BBH	17926110	0	Washer 1,225	#	
2C	17026104	4	Spring,pressure		
2D	17026103	4	Pin,pressure		
2E	17026107	4	Packing,tip		
2F	17026008	8	Pin Straight		
2G	17826006	4	Nut, Retaining		



D_MIE1_4_5		Fuel Supply Parts			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17824020R	1	Filter kit		
1A	17824026	1	Cover,filter		
1B	17114022	1	Fuel Filter Element MINI-62 SM-82/94		
1C	17824027	1	Plug Set, Air		
2	52102257	2	Bolt DIN 933 M8-20 8.8		
3	53038008	2	Washer DIN 6798-A 8		
4	17814001	1	Bracket, Fuel Filter		
5	52102258	2	Bolt DIN 933 M8-25 8.8		
6	53033008	2	Washer GROWER DIN 127-8		
7	17814002	1	Pipe		
8	51086016	2	ONE EAR Clamp With INTERIOR Ring 14-16,3		

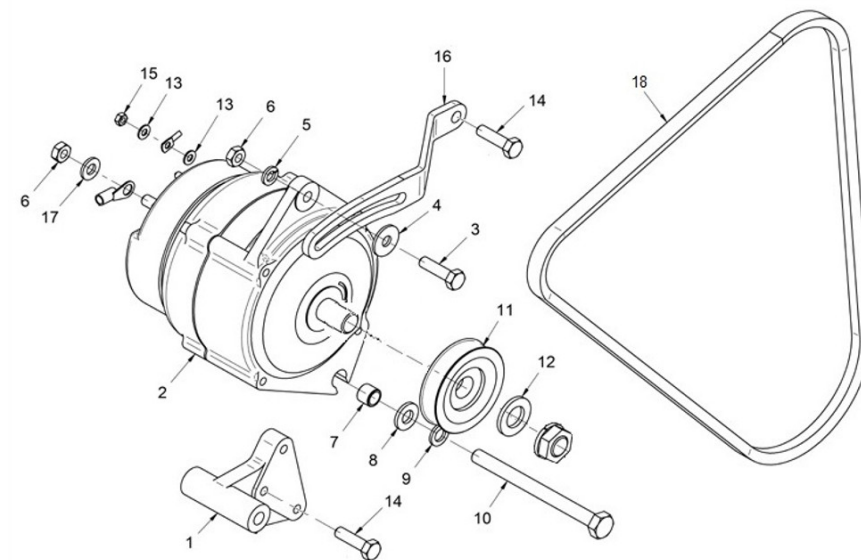


D_MIE1_5_5		Electrical Wiring			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	13817003	1	Cover		
2	52102308	2	Bolt DIN 933 M10-25 8.8		
3	53033010	2	Washer GROWER DIN 127-10		
4	17817001	1	Bracket		
5	13827005	1	Glow Relay		
6	51030006	2	Washer DIN 125-6		
7	52102154	3	Bolt DIN 933 M6-10 8.8		
8	52102104	1	Bolt DIN 933 M5-10 8.8		
9	51030005	1	Washer DIN 125-5		
10	13817007	1	Rubber Cover		
11	13817006	1	Cover		
12	13817005	1	Relay 6V		
13	51031006	1	Washer DIN 9021 6		
14	17825042	1	Stop Solenoid		
15	17827017	4	Plug, Glow		
16	60938210.1	1	Engine Wiring Ext. 3 M. SUPERSEAL		
17	60978200R	1	Wiring Electrical SM-82/94 SVT		
17A	60900179	1	Fuse 10A		
18	17427018	1	Plate Glow Plug		
19	60978100R	1	SVT 30 SM-82/94 Panel (Repl.)		04/03/2024
20A	63978311NS	1	Panel SSG 30 SM-82/94 ETR 12V Black		04/03/2024
20B	63978311BS	1	Panel SSG 30 SM-82/94 ETR 12V White		04/03/2024
20C	63978311BSL	1	Panel SSG 30 SM-82/94 ETR 12V White Earth Isolated		04/03/2024
20D	63978311NSL	1	Panel SSG 30 SM-82/94 ETR 12V Black Earth Isolated		04/03/2024

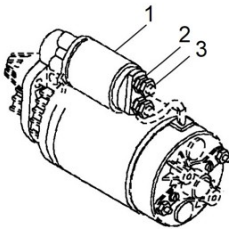


D_MIE1_5_1 Kit Alternador 14V/95A

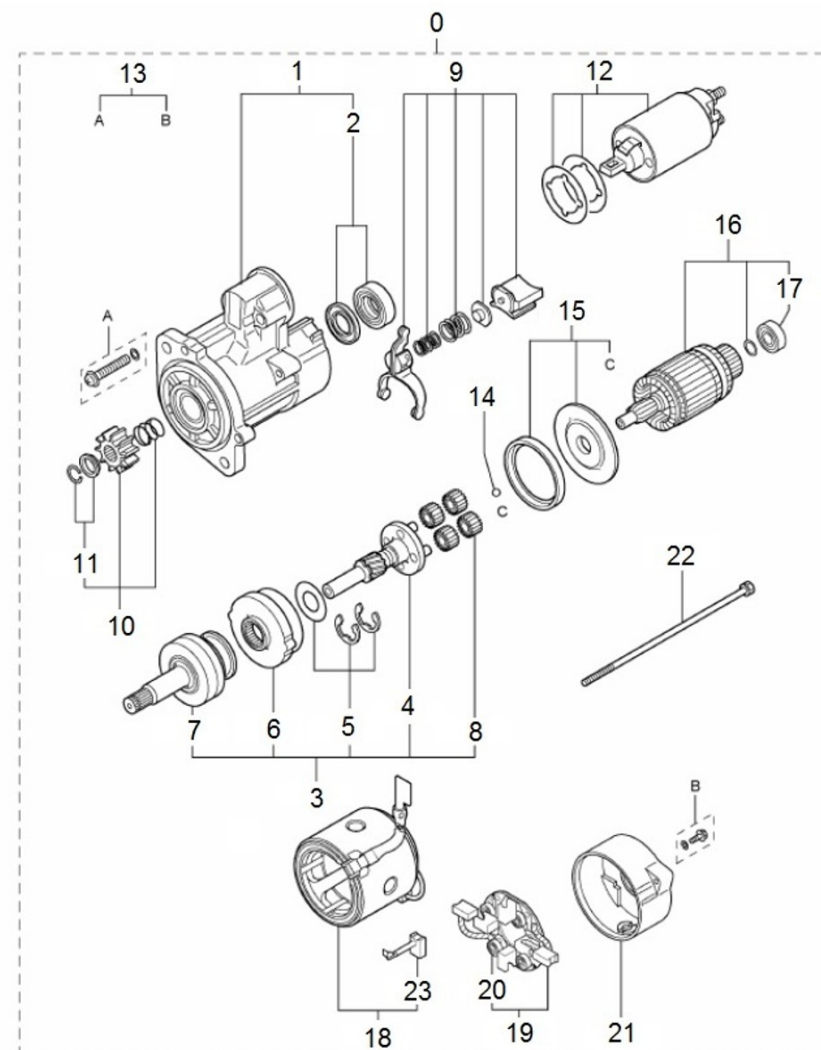
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17427002	1	Bracket,Alternator			1/06/2021
1	17427002.4	1	Bracket, Alternator 14V/95A		1/06/2021	
2	17117025	1	Alt. 14V/95A Mahle			
3	52102259	1	Bolt DIN 933 M8-30 8.8			
4	51031008	1	Washer DIN 9021 8			
5	53038008	1	Washer DIN 6798-A 8			
6	52120008	2	Nut DIN 934 M8 8.8			
7	17417025	1	Spacer 13.5x10.2x11			
8	51030010	1	Washer DIN 125-10			
9	53038010	1	Washer DIN 6798-A 10			
10	52101325	1	Bolt DIN 931 M10-120 8.8			
11	17117016.7	1	Pulley			
12	13817017	1	Spacer 17X28X5,5			
13	51030005	2	Washer DIN 125-5			
14	17425036	2	Bolt,Flange			
15	52120005	1	Nut DIN 934 M5 8.8			
16	17427007	1	Plate,Adjusting			
17	51030008	1	Washer DIN 125-8			
18	17421028	1	Belt Type SPA 1180			



D_MIE1_5_3		Starter				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17827001	1	Starter Assy			
2	51030008	1	Washer DIN 125-8			
3	52120008	1	Nut DIN 934 M8 8.8			



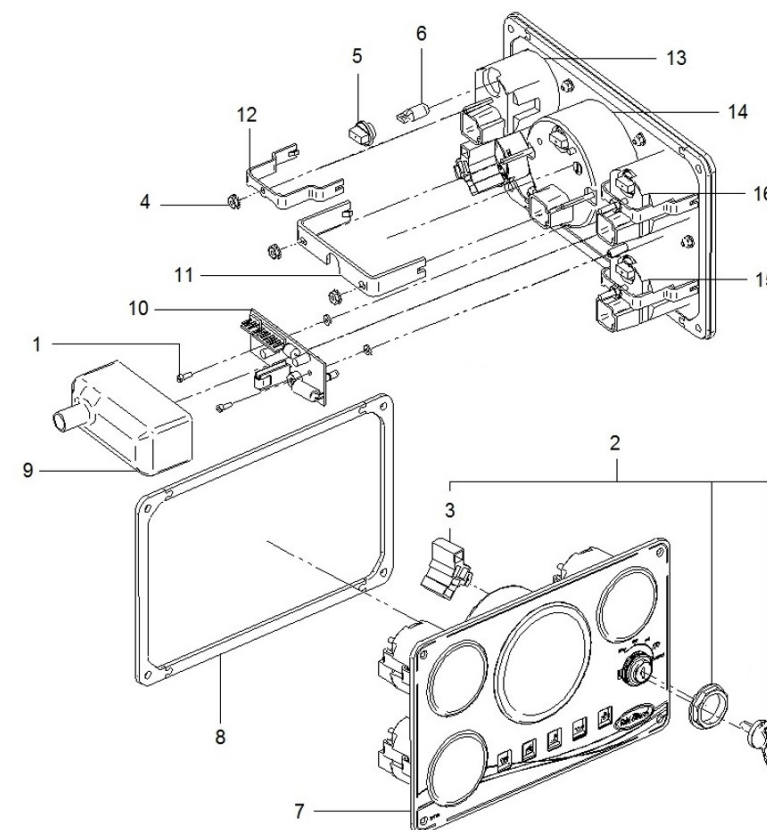
D_17827001		Spare Parts Starter				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
0	17827001	1	Starter Assy			
1	17827102	1	Bracket Assy,Front			
2	17827109	1	Ball Bearing			
3	17427112G	1	Shaft Assy,Clutch			
4	17427113G	1	Shaft Assy,Gear			
5	17327123	1	Washer Set			
6	17327117	1	Gear Assy, INTERNAL			
7	17427116G	1	Clutch,Over Running			
8	17427115G	4	Gear Assy			
9	17427103G	1	Lever Assy			
10	17427117G	1	PinION Set			
11	13427114	1	Stopper			
12	17827106	1	Switch Assy			
13	17327101	1	Screw Set			
14	17220028	1	Ball			
15	17327127	1	Ring			
16	17427108G	1	ARMATURE Set			
17	17127110.2	1	Bearing			
18	17427119G	1	Yoke Assy			
19	17327120	1	Holder Assy, Brush			
20	17327124	4	Spring, Brush			
21	17427122G	1	Bracket Assy,REAR			
22	17127101	1	Bolt Set			
23	17327125	2	Brush			



PART WITHOUT REF.NO.WILL NOT BE SUPPLIED.

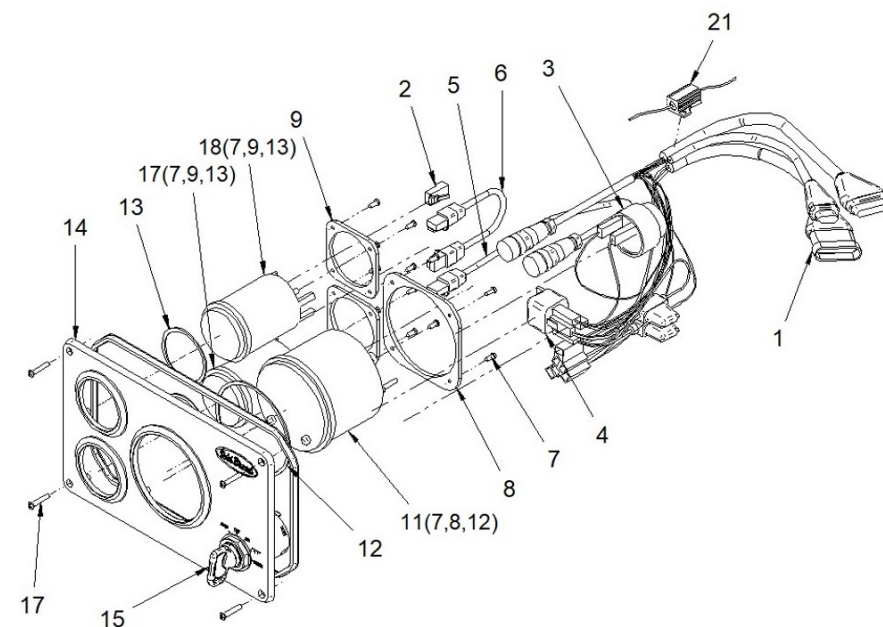
D_60978100 SVT 30 SM-82/94 Panel

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	60900301.2	1	Integrated Circuit Plate 12V Protection			
11	60900910.1	1	Revolution Counter Fixing Bracket			
12	60900915.2	3	Gauge Fixing Bracket			
13	60900941	1	Voltmeter VT 12V			
14	60978900	1	Revol. Counter VT 12V SM-82/94			
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	



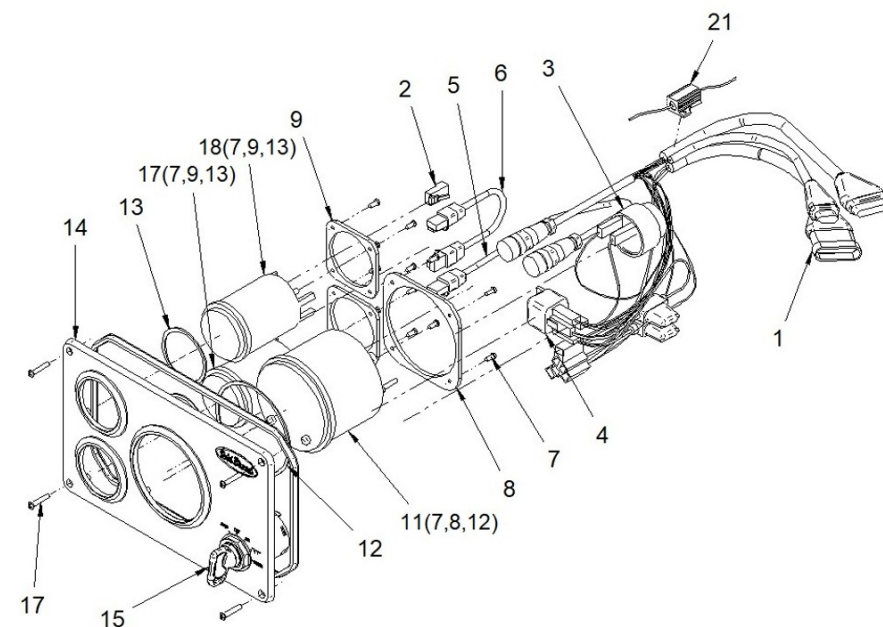
D_1633 Panel SSG 30 Spare Parts

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

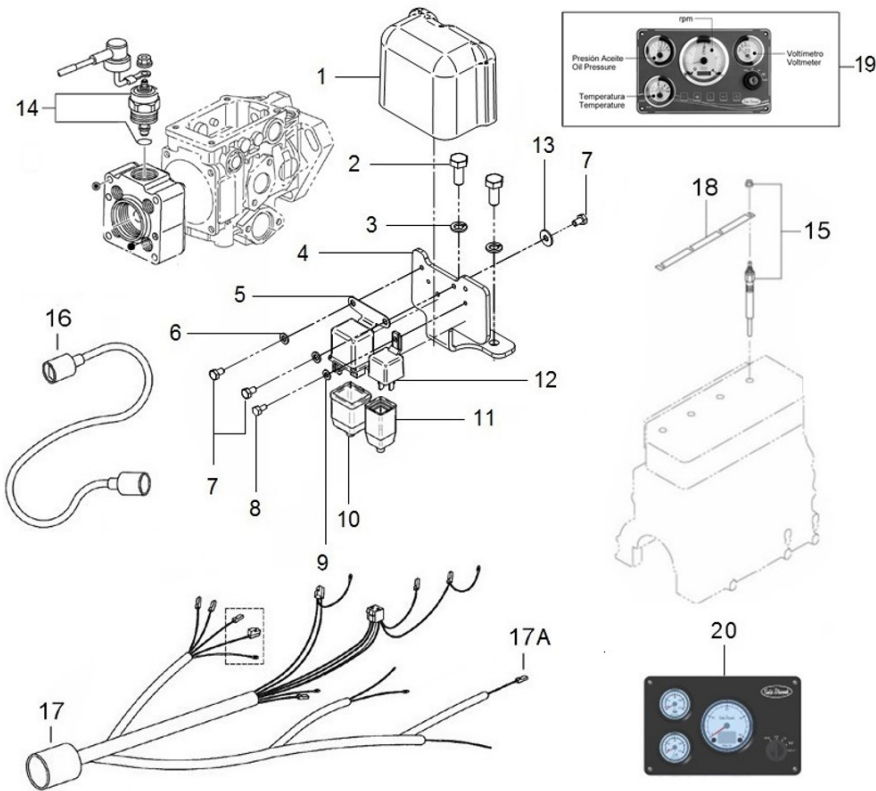
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
17	51918057	4	Bolt DIN 7981 3,9-22			
18A	63900003BSR	1	Pressure Gauge SG Solé Master White			
18B	63900042NSR	1	Pressure Gauge SG Solé Master Black			
19A	63900002BSR	1	Temperature Gauge SG Solé Master White			
19B	63900041NSR	1	Temperature Gauge SG Solé Master Black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



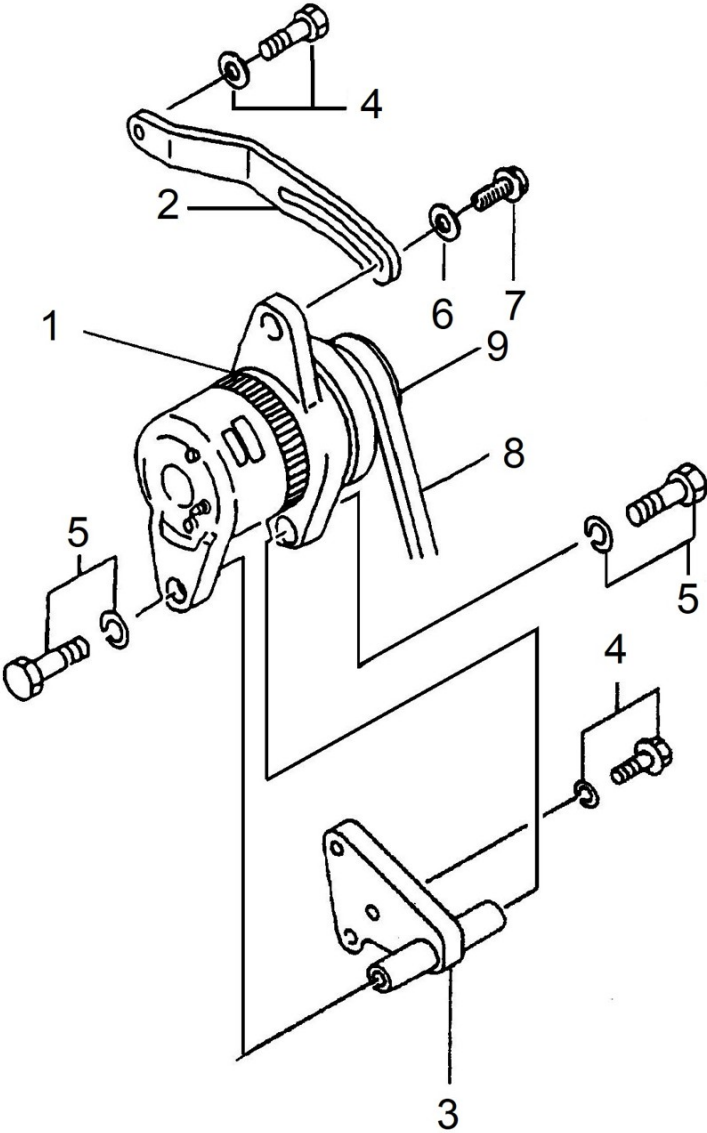
D_ALARPRO_1		Engine Extension				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1A	60938210.1	1	Engine Wiring Ext. 3 M. SUPERSEAL			
1B	60985210.1	1	Engine Wiring Ext. 4 M. SUPERSEAL			
1C	60938211	1	Engine Wiring Ext. 8 M. SUPERSEAL			
1D	60985210.12.1	1	Engine Wiring Ext. 12 M. SUPERSEAL			
1E	60985210.15.1	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_MIE1_6_5		24V Electrical Wiring				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13817003	1	Cover			
2	52102308	2	Bolt DIN 933 M10-25 8.8			
3	53033010	2	Washer GROWER DIN 127-10			
4	17817001	1	Bracket			
5	17527006	1	Glow Relay 24V			
6	51030006	2	Washer DIN 125-6			
7	52102154	3	Bolt DIN 933 M6-10 8.8			
8	52102104	1	Bolt DIN 933 M5-10 8.8			
9	51030005	1	Washer DIN 125-5			
10	13817007	1	Rubber Cover			
11	13817006	1	Cover			
12	17417005.1	1	Relay 24V 24-22A			
13	51031006	1	Washer DIN 9021 6			
15	17A27017	4	Glow Plug 24V			
16	60938210.1	1	Engine Wiring Ext. 3 M. SUPERSEAL			
17	60978200R	1	Wiring Electrical SM-82/94 SVT			
17A	60900179	1	Fuse 10A			
18	17427018	1	Plate Glow Plug			
19	17125301A	1	SOLENOID 24V.			
19	60978100R	1	SVT 30 SM-82/94 Panel (Repl.)			04/03/2024
20A	63978321NS	1	Panel SSG 30 SM-82/94 ETR 24V Black			04/03/2024
20B	63978321BS	1	Panel SSG 30 SM-82/94 ETR 24V White			04/03/2024
20C	63978321BSL	1	Panel SSG 30 SM-82/94 ETR 24V White Earth Isolated			04/03/2024
20D	63978321NSL	1	Panel SSG 30 SM-82/94 ETR 24V Black Earth Isolated			04/03/2024

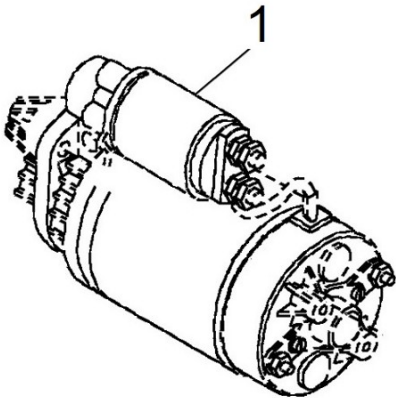


D_MI74_6_1 Alternator 28V/55A					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17417024	1	Alternator 28V/55A		
2	17427007	1	Plate,Adjusting		
3	17427002.2	1	Bracket,Alternator		
4	17121012	2	Bolt, w/washer		
5A	52202309	2	Bolt DIN 933 M10-1,25-30 8.8		
5B	53038010	2	Washer DIN 6798-A 10		
6	51031008	1	Washer DIN 9021 8		
7	13827012	1	Bolt		
8	17521028	1	Belt Type AX 45 1175		
9	17117022	1	Pulley Alternator, Type A	18/07/2017	
9	17417022	1	Pulley		18/07/2017

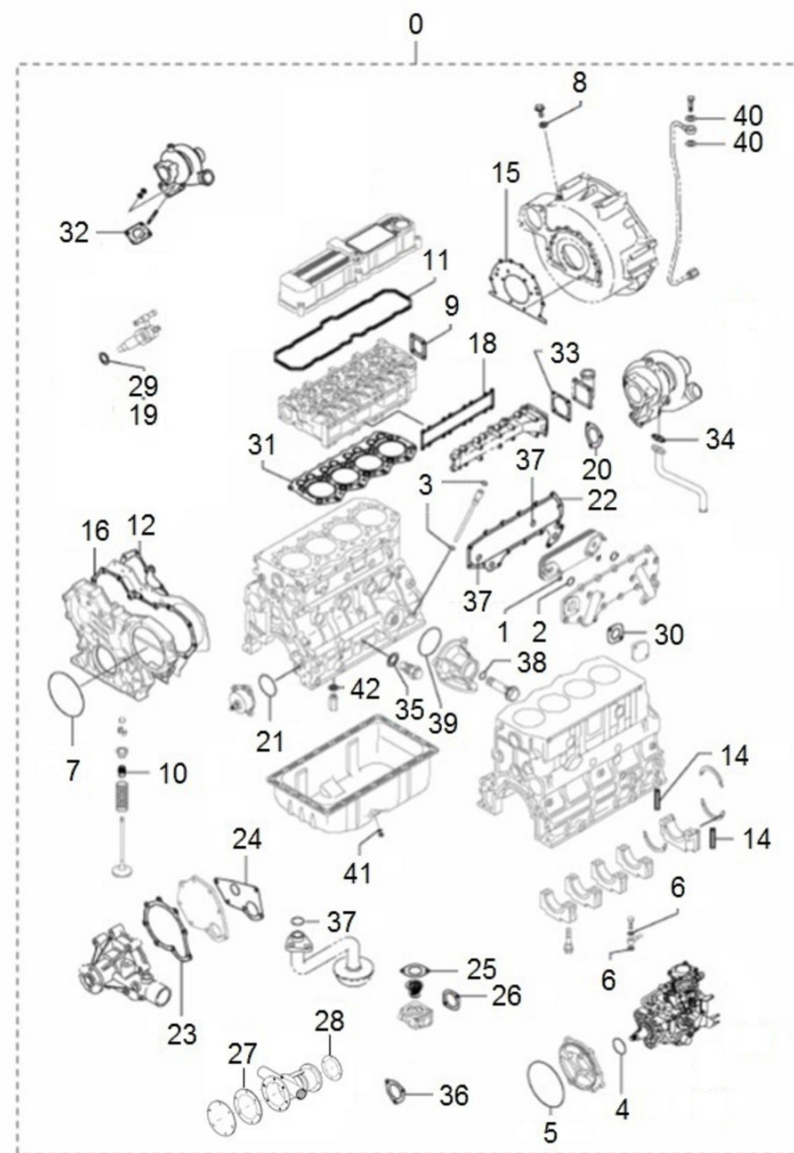




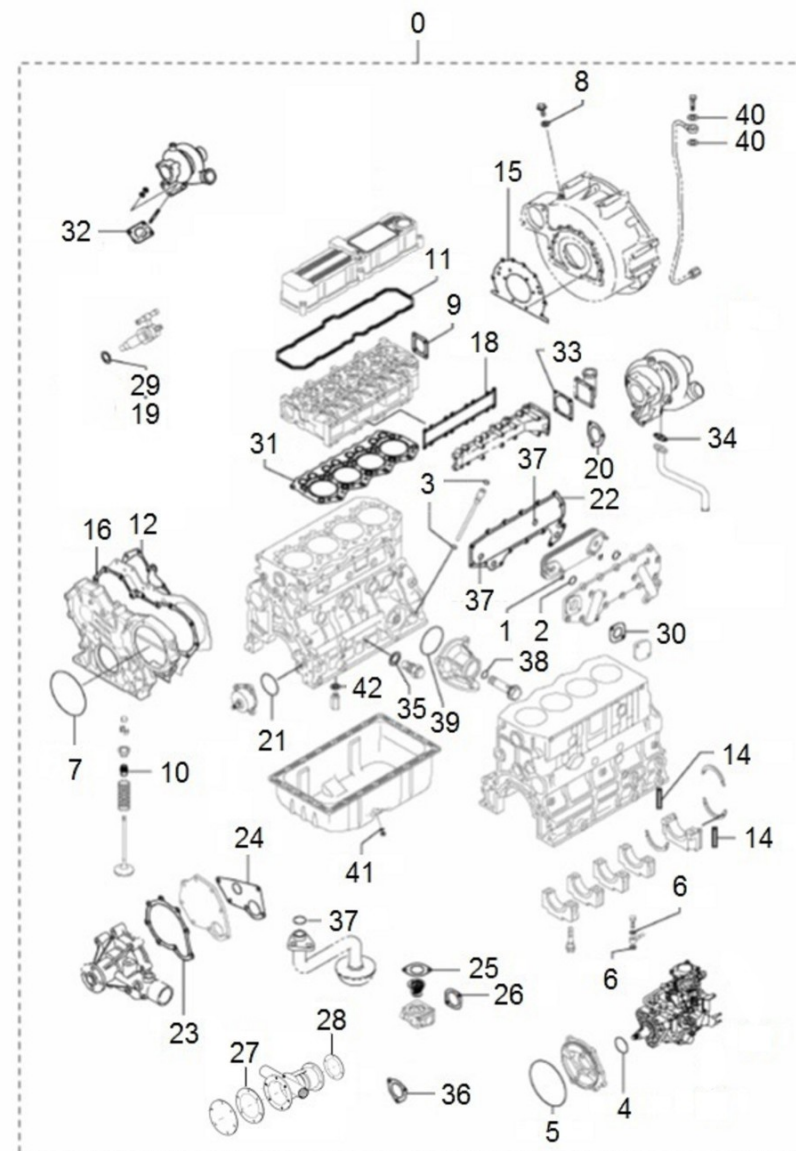
D_MI74_6_3 Starter					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
1	17527001.2	1	Starter Assy 24V		



D_17920101		Gasket Kit			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
0	17920101	1	Gasket Kit		
1	17822115	4	O-Ring		
2	17520017	2	O-Ring D. 30X3,4		
3	17120058	3	O-Ring D. 13X2,5		
4	17825007	1	O-Ring		
5	17825006	1	O-Ring		
6	17520074	2	Washer,SealING		
7	17420047	1	O-Ring D. 140X2		
8	17121013	2	Gasket		
9	17421011	1	Gasket		
10	17422054	8	Seal,Valve Stem		
11	17421010	1	Rocker Cover Gasket		
12	17420018	1	Gasket,Front Plate		
14	17420112	2	Seal,Valve		
15	17420025	1	Gasket,Rear		
16	17420040	1	Gasket,Gear		
18	17421032	1	Gasket IN.MANIFOLD		
19	17024013	4	Gasket Nozzle		
20	17821014	1	Gasket		
21	17424055	1	O-Ring D. 60X2		
22	17822112	1	Gasket, Side Cover		
23	17421022	1	Gasket,Pump Cover		
24	17421041	1	Gasket,Side Cover		
25	17111021	1	Gasket	24/05/2018	
25	17821031	1	Gasket		23/05/2018
26	17421016G.2	1	Gasket (Generator)		
27	34711003	1	Gasket Cover		
28	13310013	1	Gasket,water pump		
29	17824007	4	Gasket, Nozzle		
30	17420048	1	Gasket		
31	17821005	1	Gasket,Cylinder Head		

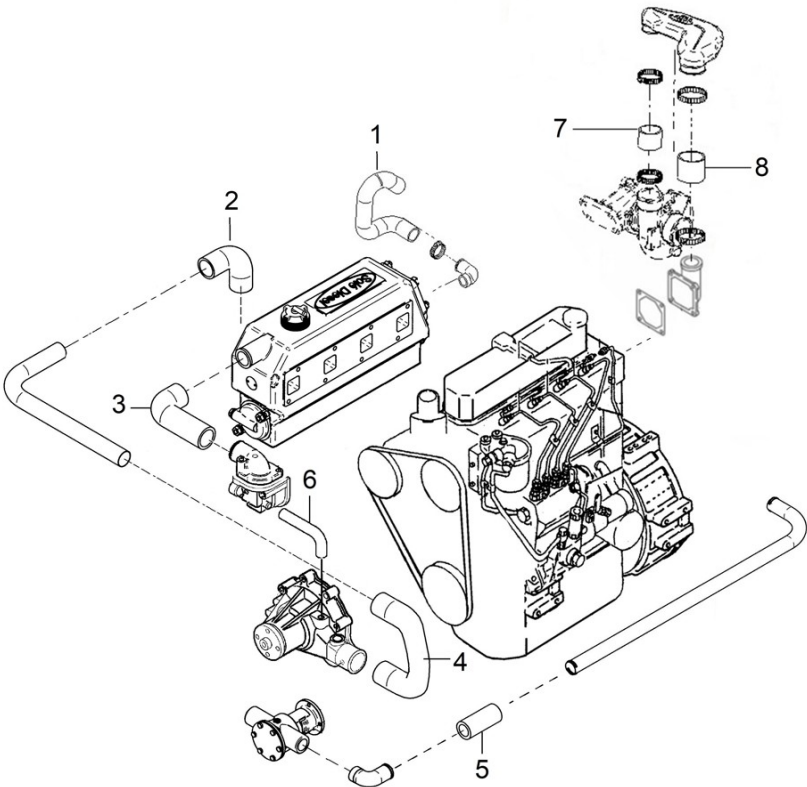


D_17920101		Gasket Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	17420049	1	Gasket			
33	17421042	1	Gasket			
34	17524091	1	Gasket,Oil Pipe			
35	17424063	1	Gasket			
36	17421014	1	Gasket			
37	17424060	3	O-Ring D. 22X2,4			
38	17524056	1	O-Ring D. 40X6			
39	17524059	1	O-Ring D. 95X3			
40	17124056	2	Gasket			
41	17120074	1	Gasket			
42	17420017	2	Gasket			



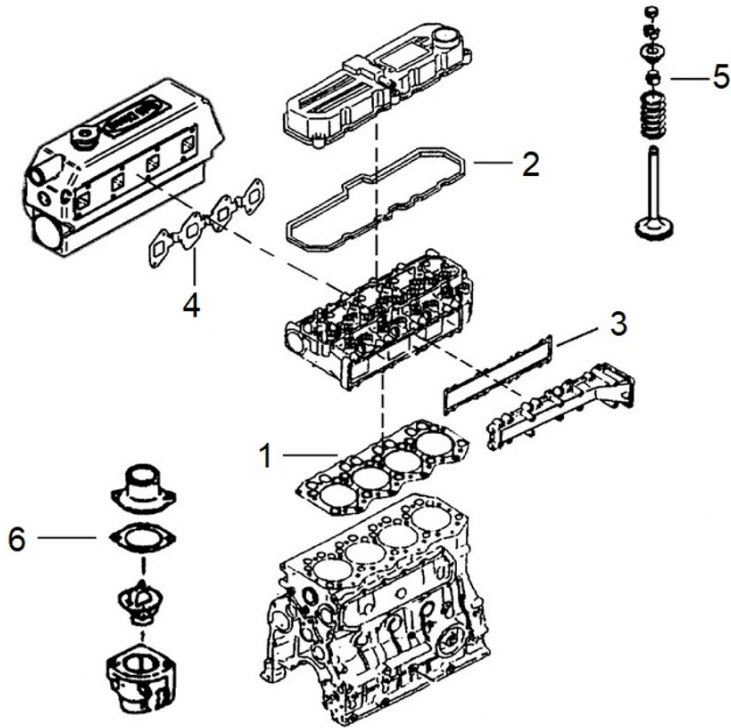
17811100 Pipe Rubber Set,Water Line SM-82/SM-94

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17811034	1	Rubber Wet Exhaust Inlet Bend			
2	15211026	1	Elbow,rubber			
3	17411013	1	Thermostat Water Outlet Elbow			
4	16711016	1	Rubber Elbow			
5	13211036	1	Pipe 30-40-100			
6	17421025	1	Hose,BY-PASS			
7	17810030	1	Hose			
8	17810031	1	Hose			



17820101.1 Gasket Kit SM-82/94

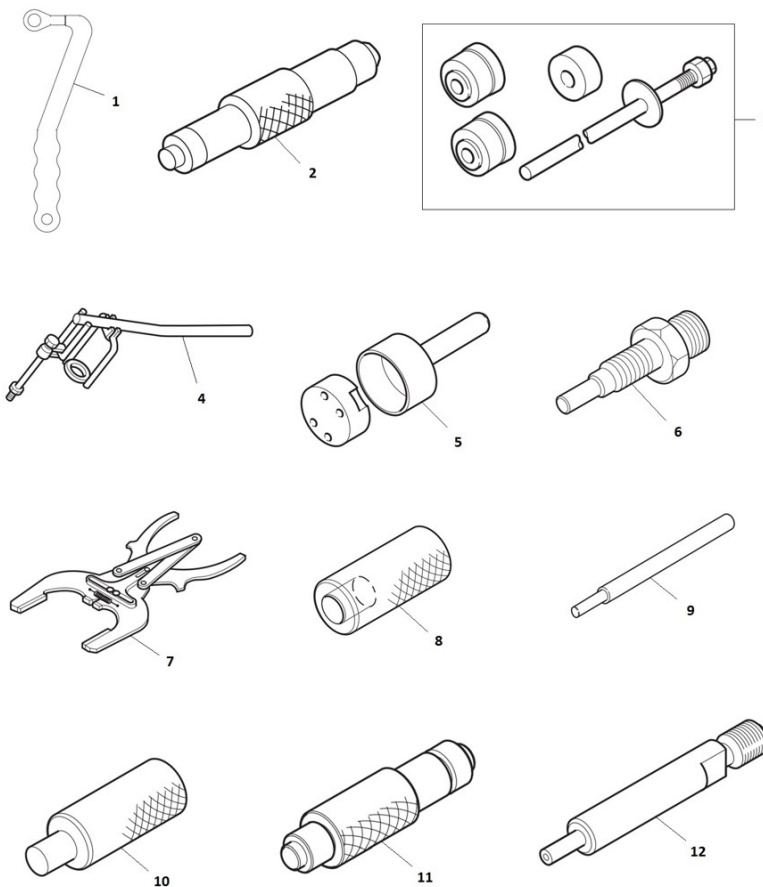
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17821004	1	Gasket,Cylinder Head			
2	17421010	1	Rocker Cover Gasket			
3	17421032	1	Gasket IN.MANIFOLD			
4	17421035	1	Gasket,Exhaust Manifold			
5	17422054	8	Seal,Valve Stem			
6	17821031	1	Gasket			



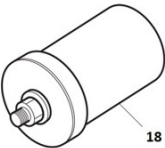
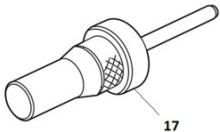
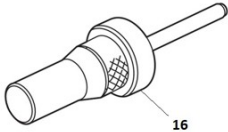
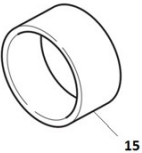
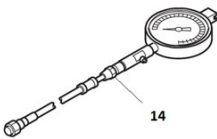
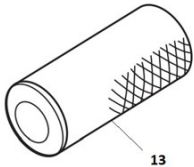
D_UTILFA0972_1

Special Tools

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	13811063	1	Refrigerator Mounting Key			
2	U3009107300	1	Idler Bushing Installer			
3	U3069100010	1	Camshaft Bushing Installer Set			
4	U3069104500	1	Valve Spring Pusher			
5	U3069113010	1	Oil seal sleeve installer set			
6	U3069121100	1	Gauge Adapter			
7	UMM74007	1	Piston Ring Pliers			
8	U32A9100100	1	Valve Guide Installer			
9	U32A9100300	1	Valve Guide Remover			
10	U32A9100400	1	Oil Pump Bushing Installer			
11	U32A9100500	1	Connecting rod bushing puller			
12	U32A9101100	1	Gauge adapter (direct injection)			

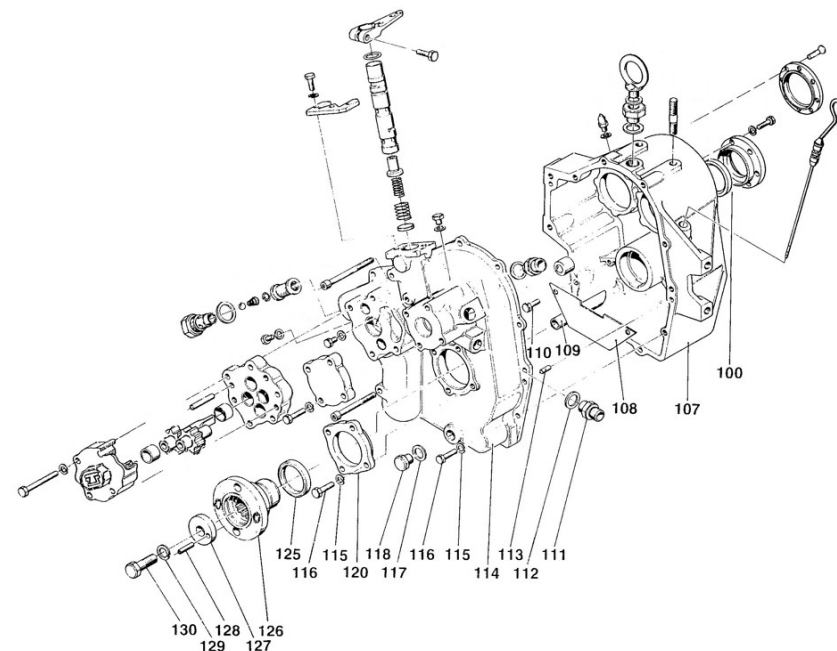


D_UTILFA0972_2		Special Tools				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
13	U32A9110200	1	Stem Seal Installer			
14	19440400.2	1	Compression Manometer 10-60 Bar			
15	U3449100200	1	Piston Installer			
16	U3449103020	1	Valve Sheet Insert Caulking Tool			
17	U3679100200	1	Valve Sheet Insert Caulking Tool			
18	UMH061077	1	Idler Shaft Puller			



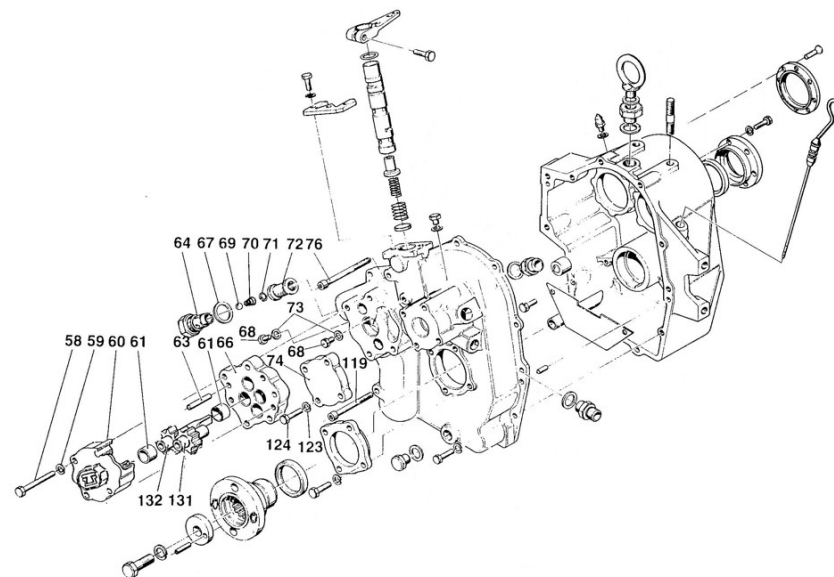
D_5030_1.1 Sheet 1.1/4

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			



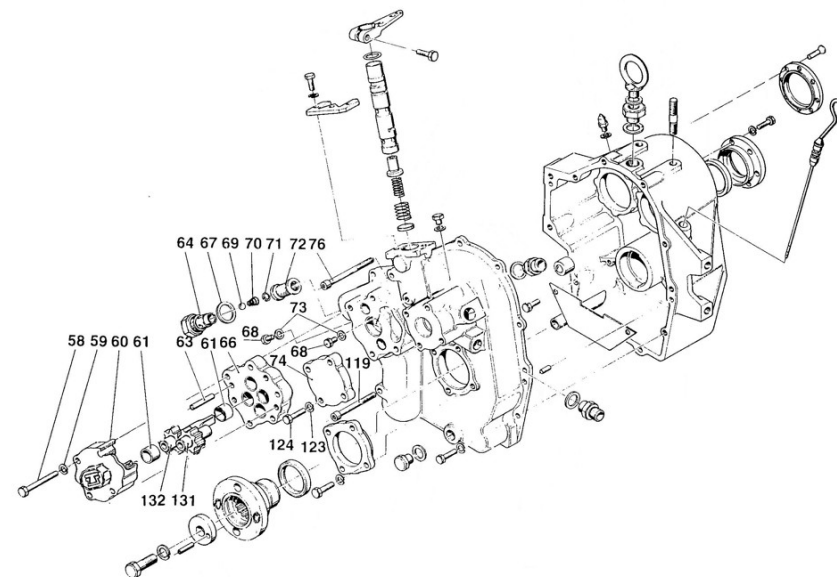
D_5030_1.2 Sheet 1.2/4

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			



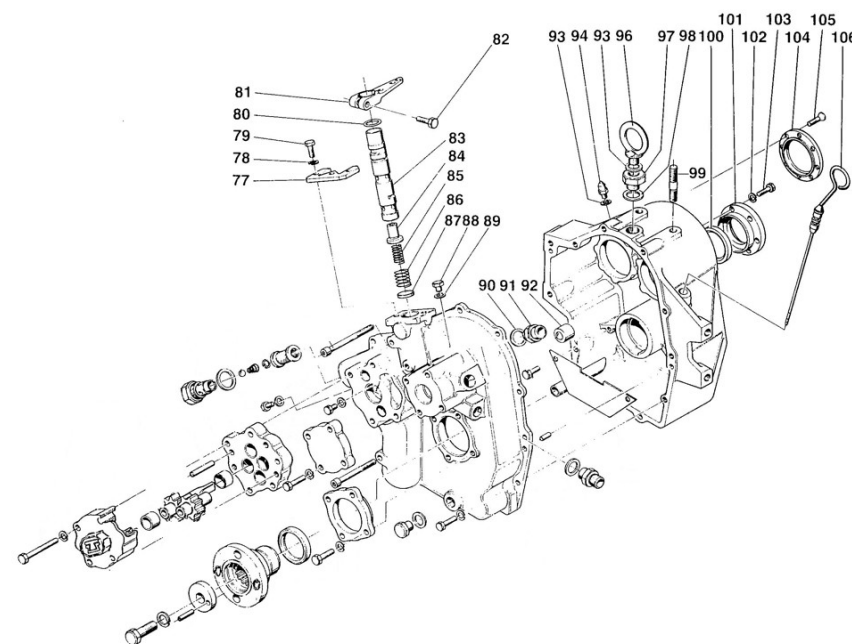
D_5030_1.2 Sheet 1.2/4

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			



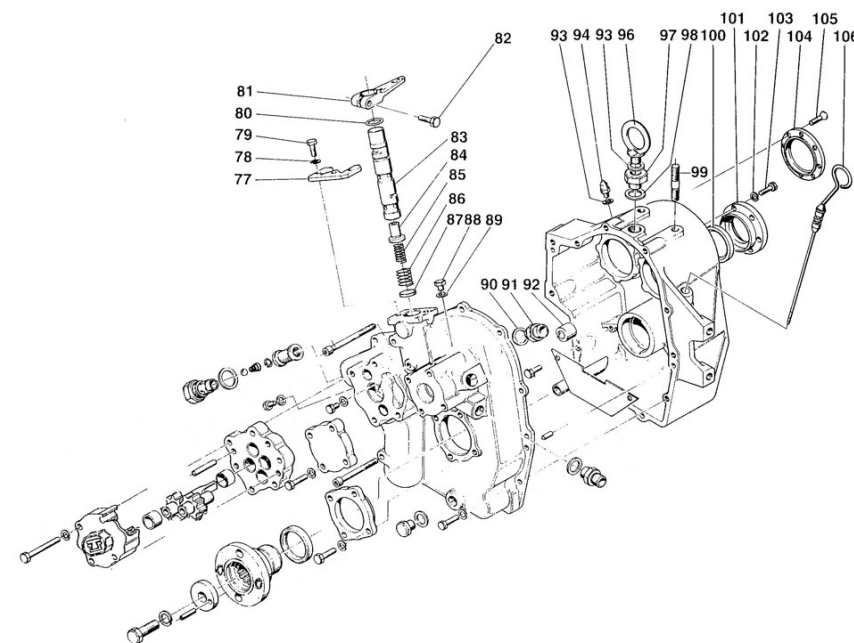
D_5030_1.3 Sheet 1.3/4

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			



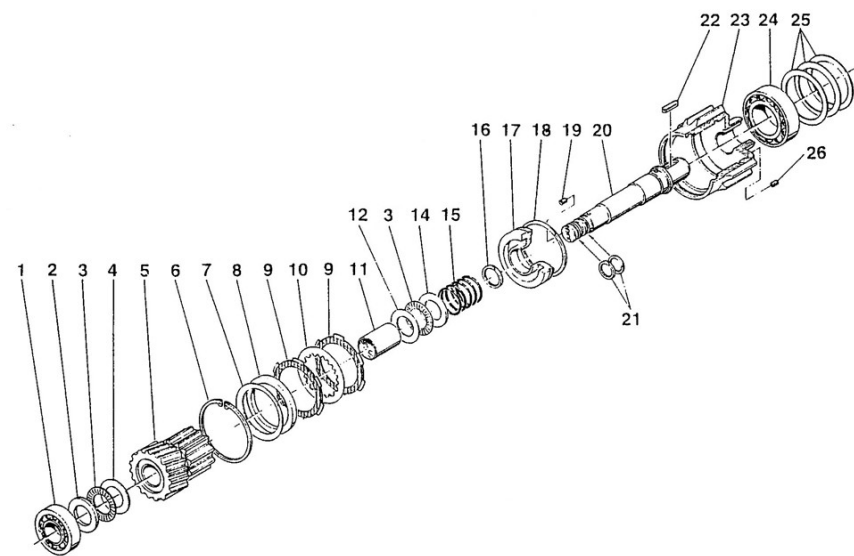
D_5030_1.3 **Sheet 1.3/4**

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			

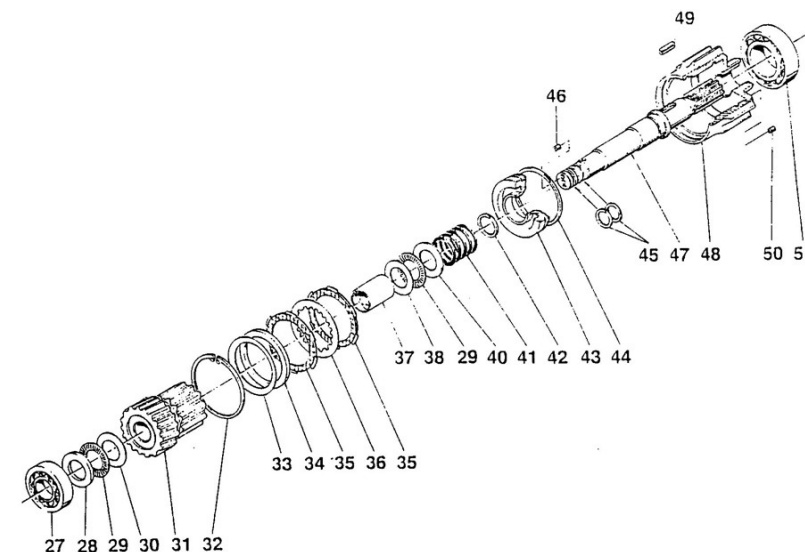


D_5030_2 Intermediate Shaft 2/4

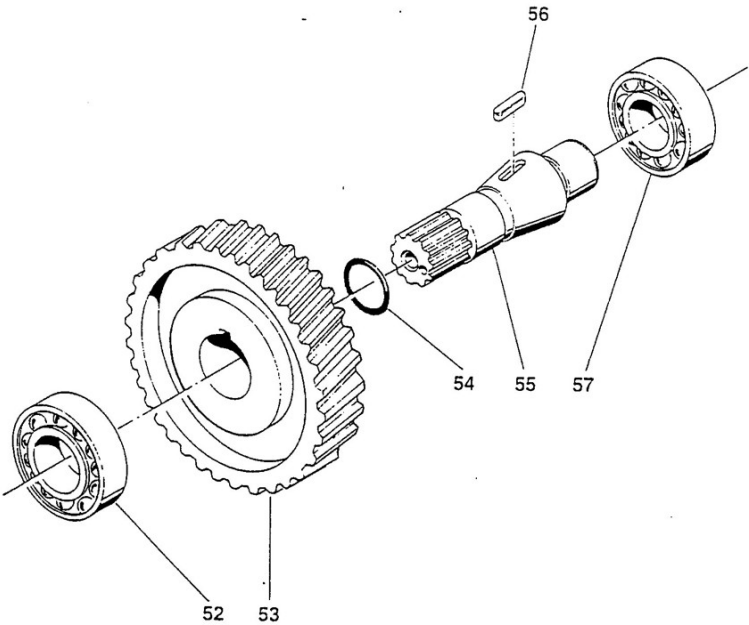
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24870207	1	Bearing			
2	24810307	1	Washer			
3	24810309	2	Roller			
4	24810310	1	Ring			
5A	24812302	1	Gear R. 1,5 TM 93			
5B	24813302	1	Gear R. 2 TM 93			
5C	24814302	1	Gear R. 2,4 TM 93			
5D	24815302	1	Gear R. 2,8 TM 93			
6	24810312	1	SNAP Ring			
7	24810313	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			



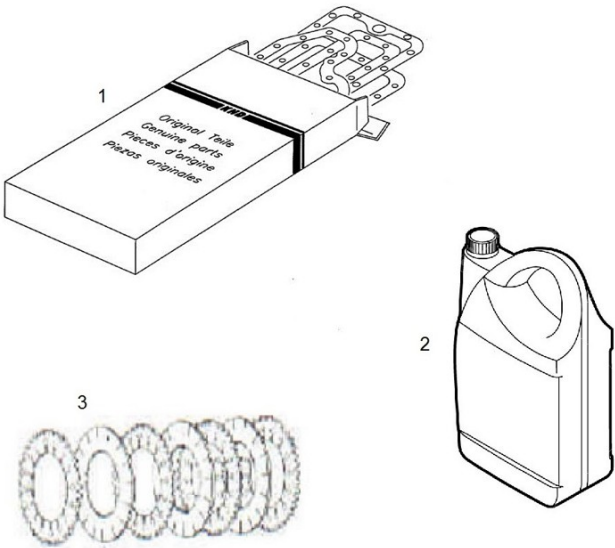
D_5030_3		Input Shaft 3/4			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
27	24870207	1	Bearing		
28	24810307	1	Washer		
29	24810309	2	Roller		
30	(*)	1	Not available		
31A	24812302	1	Gear R. 1,5 TM 93		
31B	24813302	1	Gear R. 2 TM 93		
31C	24814302	1	Gear R. 2,4 TM 93		
31D	24815302	1	Gear R. 2,8 TM 93		
32	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		

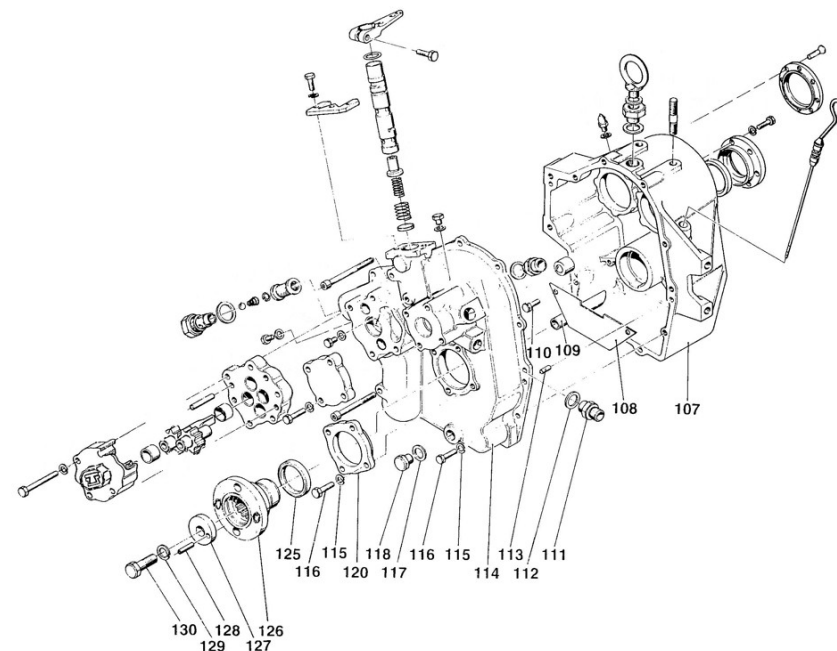


D_5030_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24810401	1	Kit Gasket			
2	A0105000	1	15W40 Sole Diesel Oil 5L			
3	24810403	2	Clutch Plate Kit			



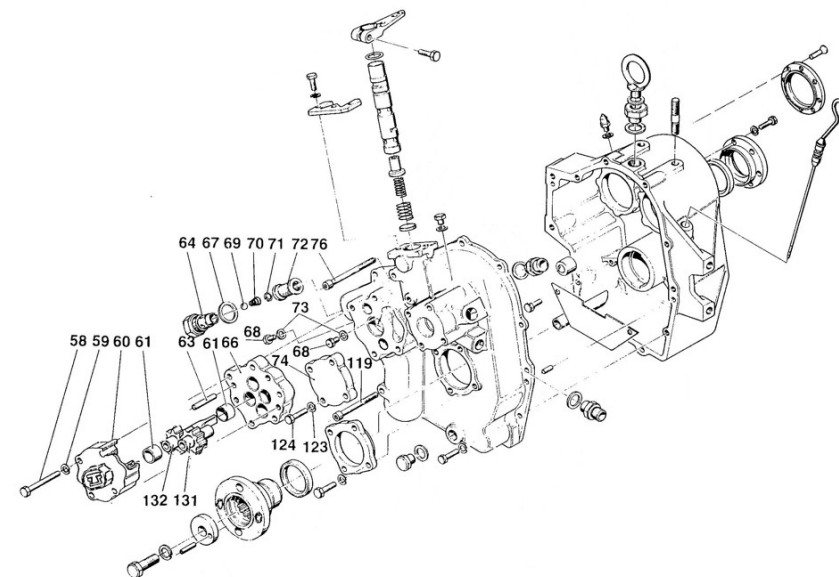
D_5031_1.1 Sheet 1.1/4

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			



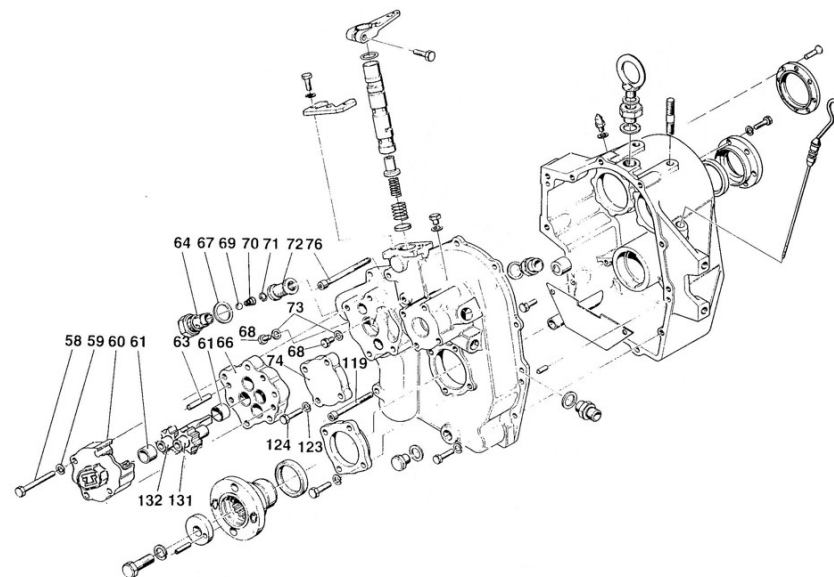
D_5030_1.2 **Sheet 1.2/4**

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			



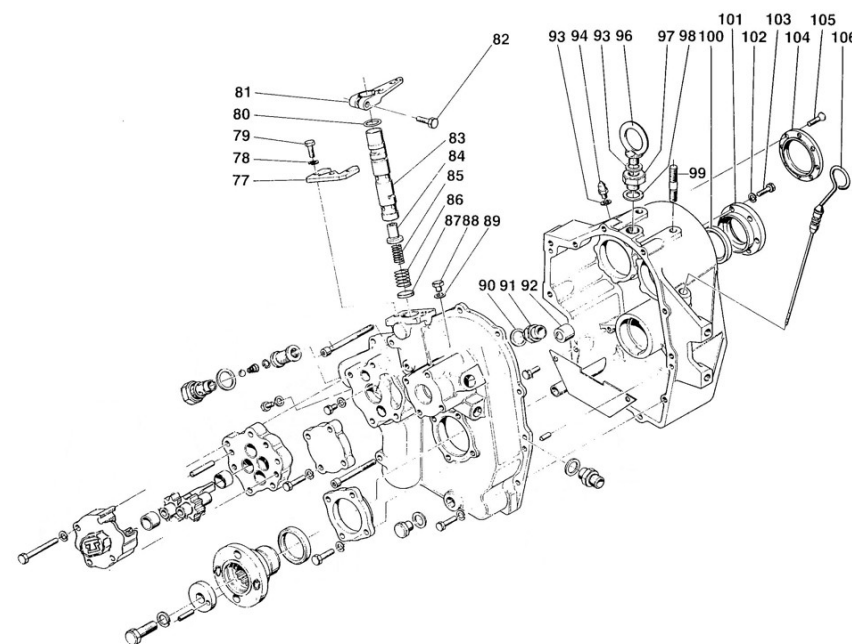
D_5030_1.2 Sheet 1.2/4

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			



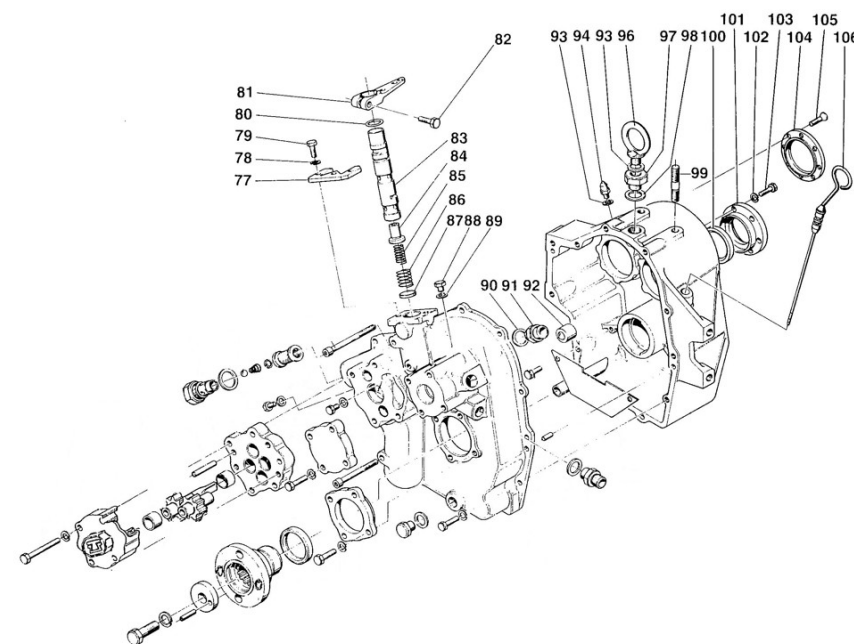
D_5030_1.3 Sheet 1.3/4

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			



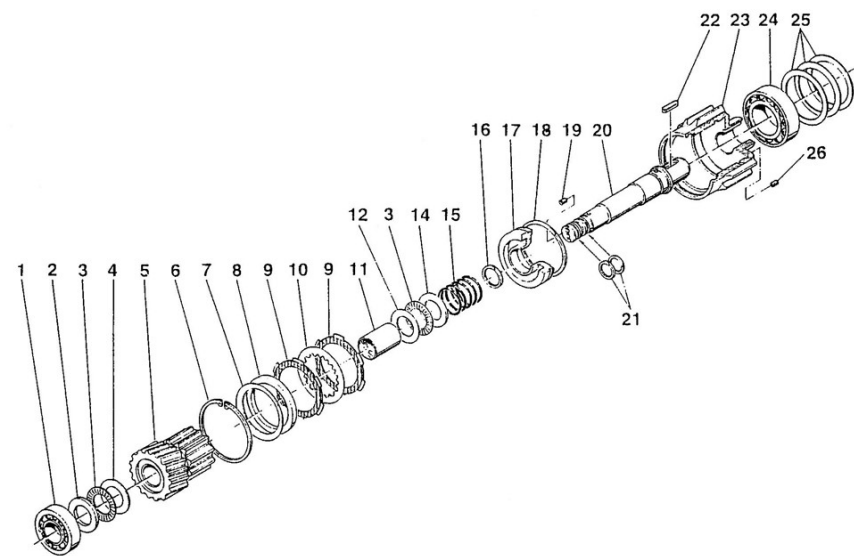
D_5030_1.3 Sheet 1.3/4

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			

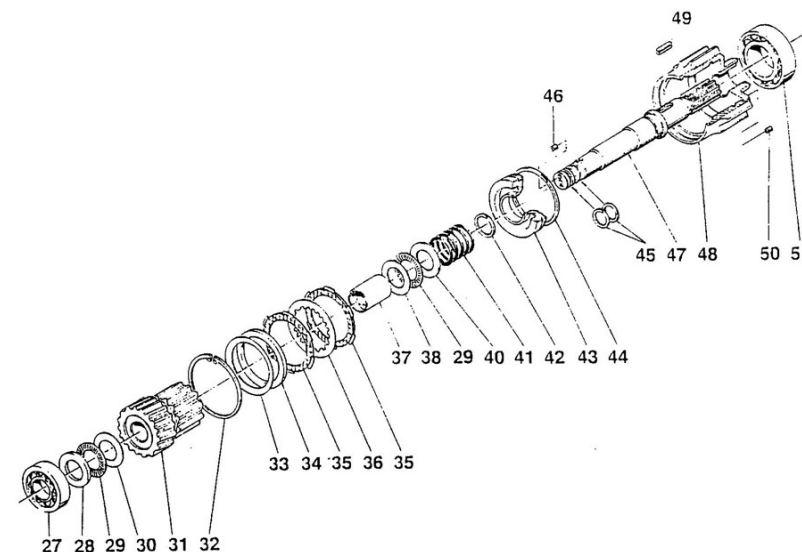


D_5031_2 Intermediate Shaft 2/4

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			

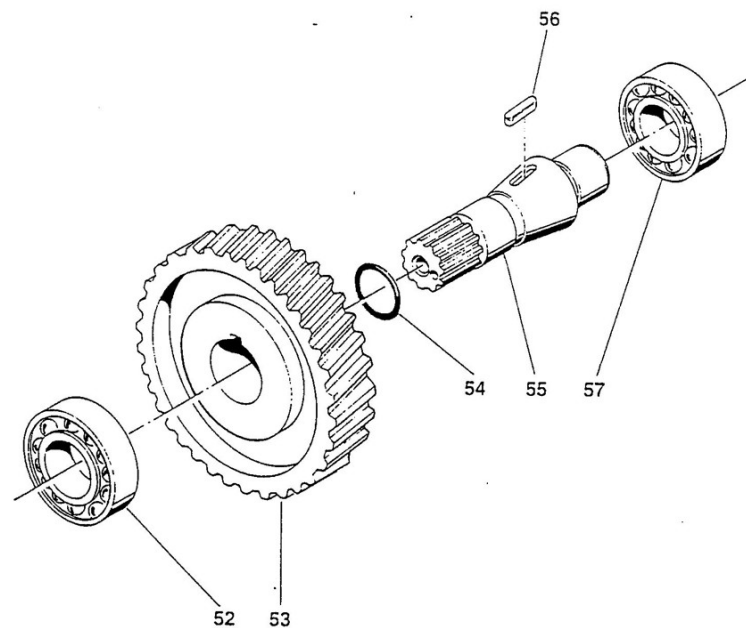


D_5031_3		Input Shaft 3/4			
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
27	24870207	1	Bearing		
28	24810307	1	Washer		
29	24810309	2	Roller		
30	(*)	1	Not available		
31	24812302	1	Gear R. 1,5 TM 93		
31	24813302	1	Gear R. 2 TM 93		
31	24814302	1	Gear R. 2,4 TM 93		
32	24810312	1	SNAP Ring		
33	24810313	1	Ring		
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		



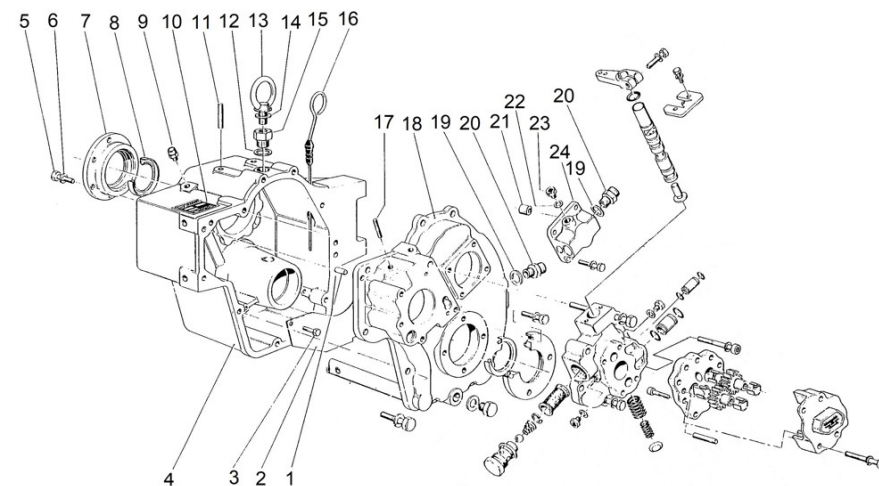
D_5031_4 Output Shaft 4/4

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			



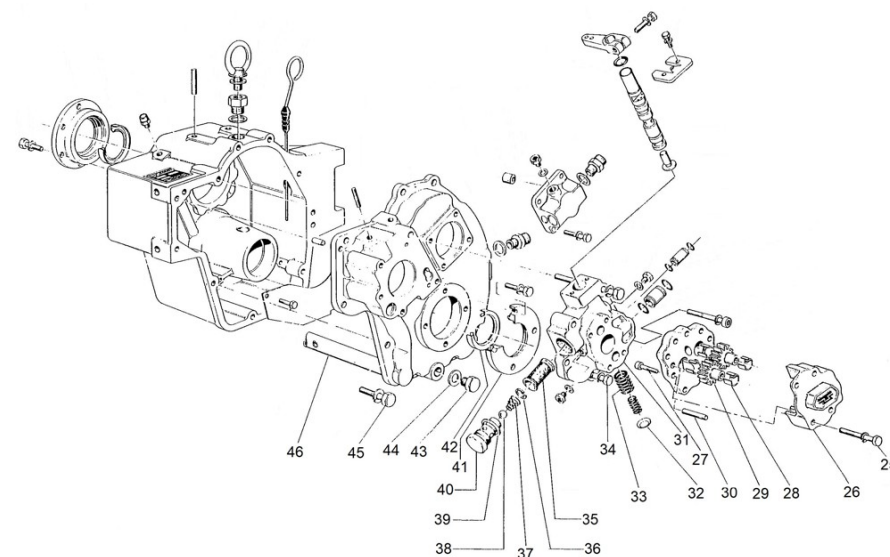
D_5027_1.1 **Sheet 1.1/4**

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24820090	2	Pin			
2	24816080	1	Plate Pipe			
3	24810082	2	Screw			
4	24820001	1	Front Body TM 170			
5	24810047	6	Screw			
6	24810014	6	Washer			
7	24820072	1	Cover Input Shaft			
8	24820103	1	Oil Grommet			
9	24810065	1	Plug			
10	24820005.1	1	NAME Plate			
11	24810071	2	Stud			
12	56000083	1	Washer 21-26-1,5			
13	24810012	1	Nut			
14	24810063	1	Plane Washer			
15	24810068	1	Plug			
16	24810008	1	ROD, Oil LEVEL			
17	24820071	2	Stud			
18	24820002	1	Reverse Body TM 170			
19	24810059	2	Plane Washer			
20	24810060	2	Racord			
21	24810062	1	Valve BY PASS			
22	24820086	1	Washer			
23	24830105	1	Plug			
24	24820102	1	Cover, REAR			



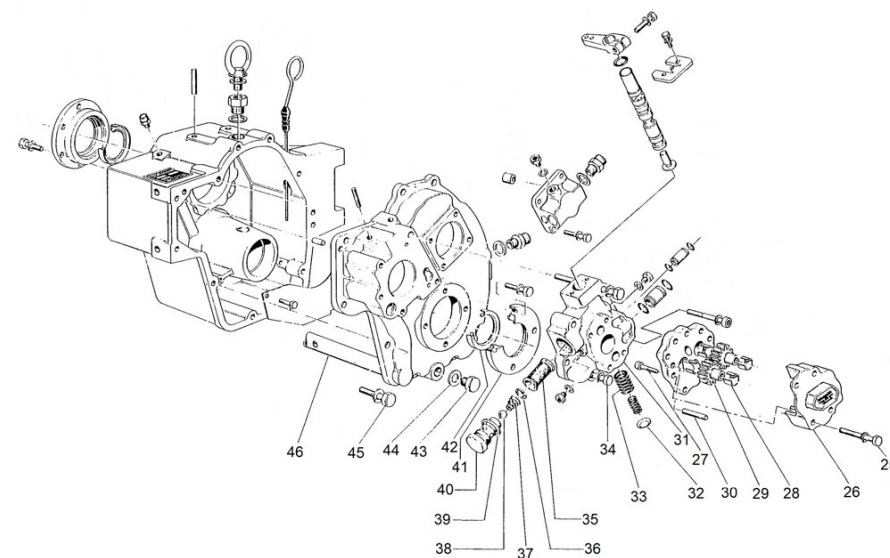
D_5026_1.2 Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
25	24810013	4	Screw			
25	24810013	4	Screw			
26	24820015.1	1	Oil Pump Body			
26	24820015.1	1	Oil Pump Body			
27	24820025.1	3	Screw			
27	24820025.1	3	Screw			
28	24810025	4	Bushing			
28	24810025	4	Bushing			
29	24810096	1	Gear, Driver			
29	24810096	1	Gear, Driver			
30	24820023.1	2	Pin			
30	24820023.1	2	Pin			
31	24820026	1	Distributor Cap			
31	24820026	1	Distributor Cap			
32	24810055	1	Expansion Plug			
32	24810055	1	Expansion Plug			
33	24816054	1	Spring, Valve			
33	24816054	1	Spring, Valve			
34	24820098	2	Screw M10X50			
34	24820098	2	Screw M10X50			
35	24810035	1	Oil Filter			
35	24810035	1	Oil Filter			
36	24810032	1	SNAP Ring			
36	24810032	1	SNAP Ring			
37	24810030	1	Valve Spring			
37	24810030	1	Valve Spring			
38	18024143	1	Ball,steel 1/2"			
38	18024143	1	Ball,steel 1/2"			
39	24810027	1	Washer			
39	24810027	1	Washer			
40	24810024	1	Plug, Oil Filter DRAIN			



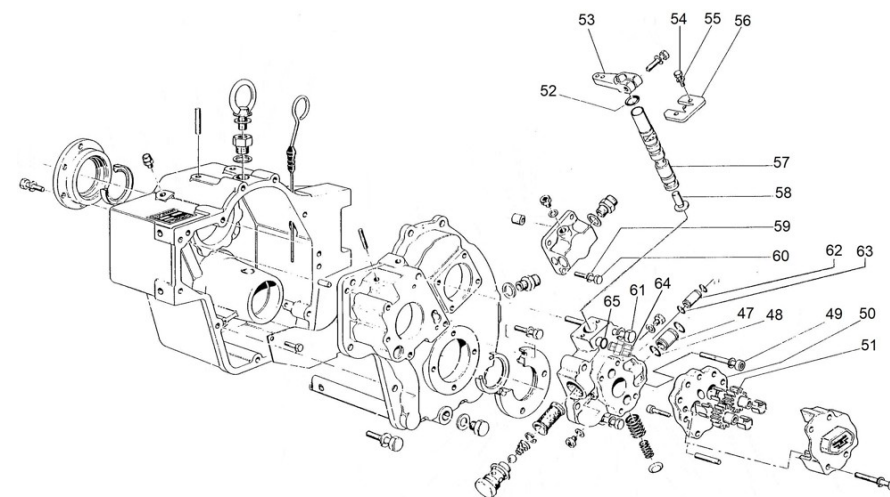
D_5026_1.2 Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
41	24820208	1	Cover Front			
42	24820214	1	Grommet			
42	24820214	1	Grommet			
43	24810011	1	Plug,oil drain			
43	24810011	1	Plug,oil drain			
44	24810088	1	Plane Washer			
44	24810088	1	Plane Washer			
45	52101314	1	Bolt DIN 931 M10-55 8.8			
45	52101314	1	Bolt DIN 931 M10-55 8.8			
46	24816081	1	Aspiration Tube TM 880A			
46	24816081	1	Aspiration Tube TM 880A			
NS	52103311	9	Bolt DIN 912 M10-40 8.8			
NS	52103311	9	Bolt DIN 912 M10-40 8.8			



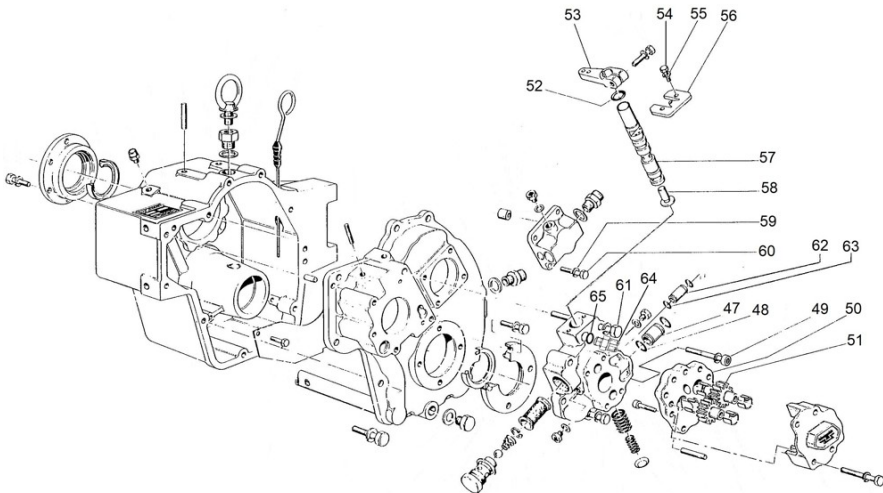
D_5026_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
47	24820062	2	Tube, Racord			
47	24820062	2	Tube, Racord			
48	24820063	2	O-Ring D. 15X1,7			
48	24820063	2	O-Ring D. 15X1,7			
49	24820013	2	Screw M10X30			
49	24820013	2	Screw M10X30			
50	24810026.1	3	Cover			
50	24810026.1	3	Cover			
51	24810095	3	Gear, Driven			
51	24810095	3	Gear, Driven			
52	24810056	1	O-Ring			
52	24810056	1	O-Ring			
53	24810424	1	Lever			
53	24810424	1	Lever			
54	24810044	2	Screw			
54	24810044	2	Screw			
55	24810042	2	Washer			
55	24810042	2	Washer			
56	24810041	1	Support			
56	24810041	1	Support			
57	24810051	1	Distributor			
57	24810051	1	Distributor			
58	24810052	1	Valve			
58	24810052	1	Valve			
59	24820075	4	Washer			
59	24820075	4	Washer			
60	24820076	4	Screw M10X30			
60	24820076	4	Screw M10X30			
61	24820087	1	Screw M10X130			
61	24820087	1	Screw M10X130			
62	24820060	1	Tube, Racord			

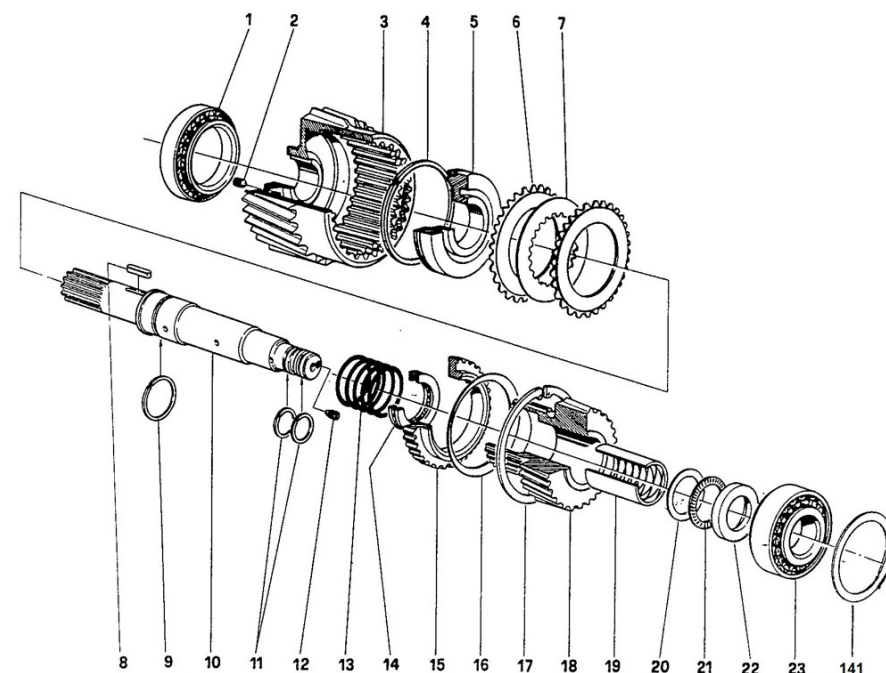


D_5026_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
63	24820059	2	O-Ring D. 10X1,7			
64	24810048	1	GR. Crazy Switch			
64	24810048	1	GR. Crazy Switch			
65	24810533	1	O-Ring D. 14X1,7			
65	24810533	1	O-Ring D. 14X1,7			

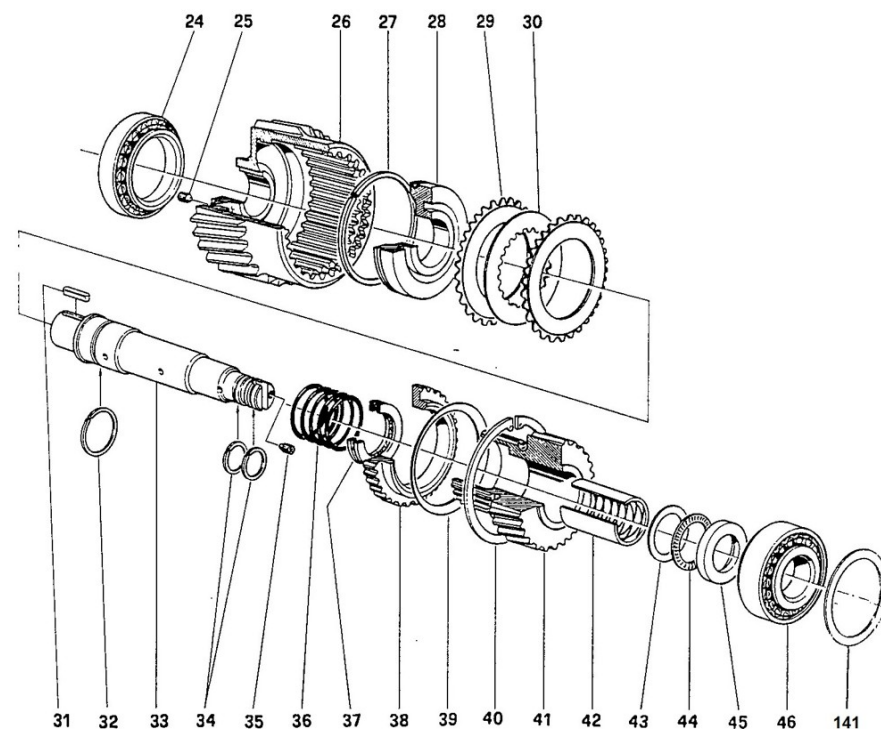


D_5027_2		Input Shaft 2/4				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24820134	1	Conical Roller Bearing 32011-JR			
2	24810334	1	Plug			
3	24820130	1	Bell			
4	24820125	1	Washer			
5	24820124	1	Piston			
6	24820115	9	Disk			
7	24820116	8	Disk			
8	24810211	1	KEY			
9	24820126	1	Washer			
10	24820101	1	Input Shaft			
11	24810328	2	Washer			
12	24810326	1	Plug			
13	24820122	1	Spring			
14	24820123	1	Bearing			
15	24820113	1	Grommet			
16	24820129	1	Ring			
17	24820128	1	SNAP Ring			
18A	24822302	1	Gear R. 1,50 TM 170			
18B	24823302	1	Gear R. 2,04 TM 170			
18C	24824302	1	Gear R. 2.50 TM 170			
18D	24825302	1	Gear Red. 2,94 TM 170			
19	24820117	1	Bushing			
20	24820118	1	Ring			
21	24820121	1	Roller Bearing AXK-4060			
22	24820105	1	Washer			
23	24820104	1	Conical Roller Bearing 32307			
141	24810333	0	Spacer	#		

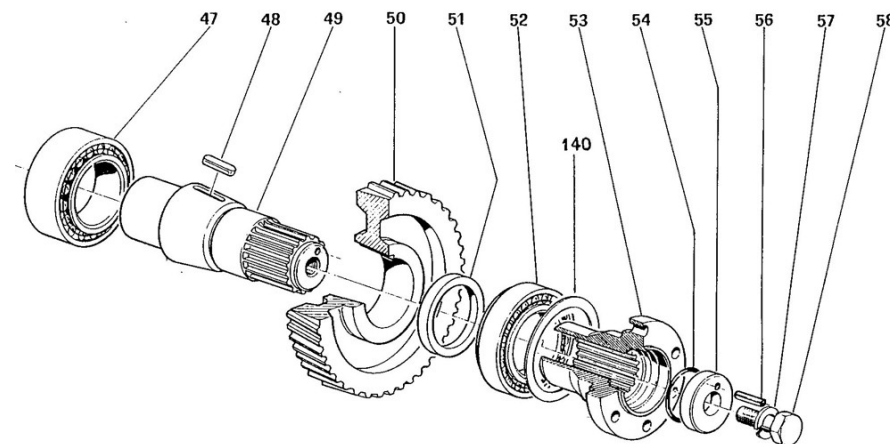


D_5027_3 Intermediate Shaft 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
24	24820134	1	Conical Roller Bearing 32011-JR			
25	24810334	1	Plug			
26	24820330	1	Bell			
27	24820125	1	Washer			
28	24820124	1	Piston			
29	24820115	9	Disk			
30	24820116	8	Disk			
31	24810211	1	KEY			
32	24820126	1	Washer			
33	24820301	1	INTERMEDIATE Shaft			
34	24810328	2	Washer			
35	24810326	1	Plug			
36	24820122	1	Spring			
37	24820123	1	Bearing			
38	24820113	1	Grommet			
39	24820129	1	Ring			
40	24820128	1	SNAP Ring			
41A	24822302	1	Gear R. 1,50 TM 170			
41B	24823302	1	Gear R. 2,04 TM 170			
41C	24824302	1	Gear R. 2.50 TM 170			
41D	24825302	1	Gear Red. 2,94 TM 170			
42	24820117	1	Bushing			
43	24820118	1	Ring			
44	24820121	1	Roller Bearing AXK-4060			
45	24820105	1	Washer			
46	24820104	1	Conical Roller Bearing 32307			
141	24810333	0	Spacer	#		

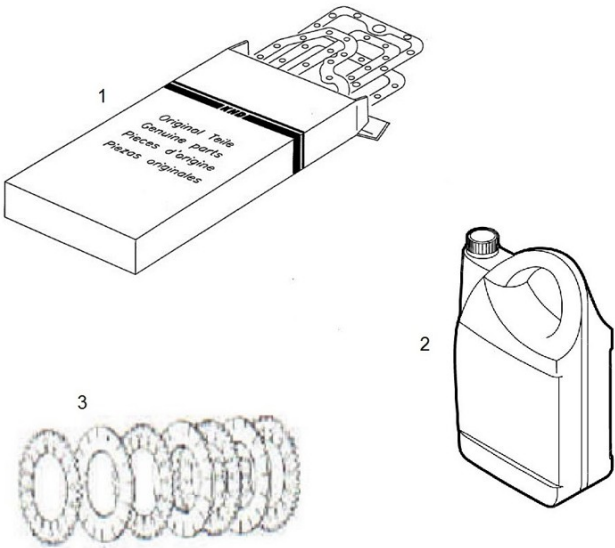


D_5027_4		Output Shaft 4/4				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
47	24820206	1	Conical Roller Bearing 33210			
4950	24822201C	1	Gear+Output Shaft Kit+Spacer			
4950	24823201C	1	Gear+Output Shaft Kit+Spacer			
4950	24824201C	1	Gear+Output Shaft Kit+Spacer			
4950	24825201C	1	Gear+Output Shaft Kit+Spacer			
51	24820209	1	Spacer, Output Shaft			
52	24820212	1	Conical Roller Bearing 30210-J2/Q			
53	24820224	1	Flange, Output			
54	24820225	1	O-Ring D. 45X3,5			
55	24820219	1	BUTT Washer			
56	24820220	1	Pin			
57	24820221	1	Washer D.16			21/09/2018
57	53033016C	1	Washer			22/09/2018
58	24820222.1	1	Screw			
140	24820333.1	0	Shim	#		



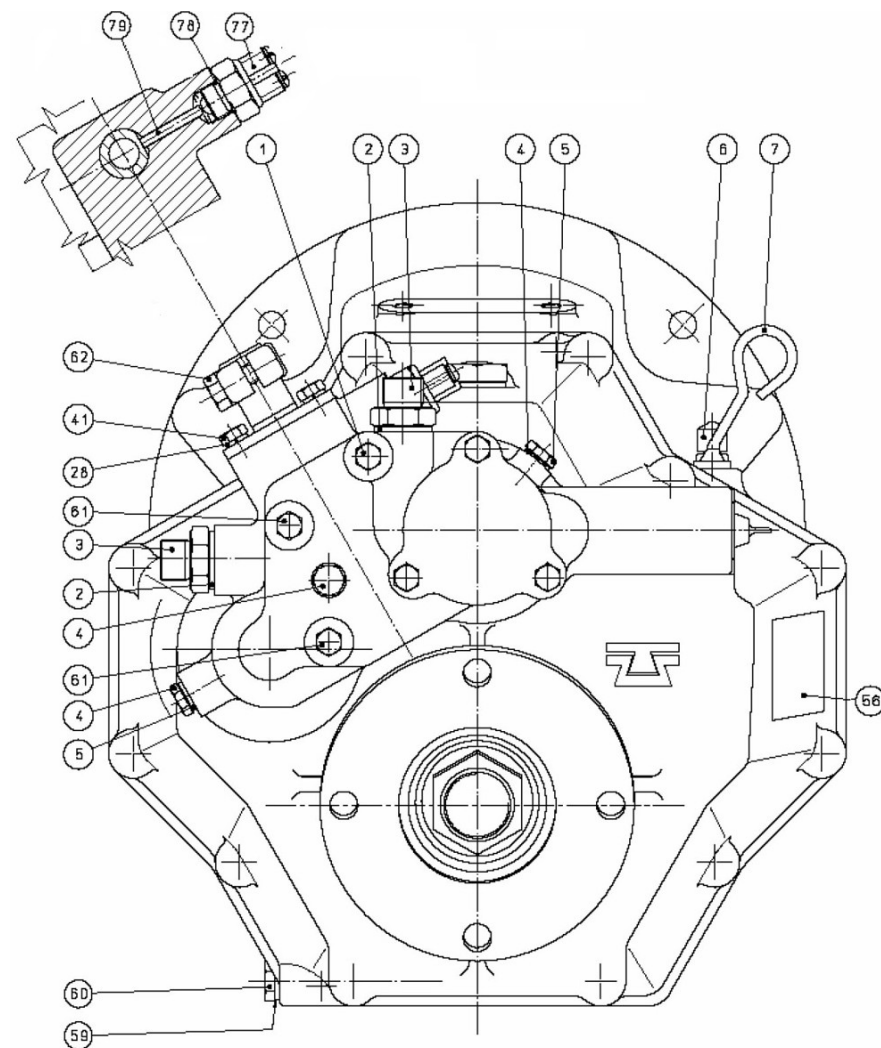


D_5027_5		Maintenance Kit				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24820401	1	Kit Gasket		15/06/2016	
1	24820401	1	Kit Gasket		15/06/2016	
2	A0105000	1	15W40 Sole Diesel Oil 5L		15/06/2016	
2	A0105000	1	15W40 Sole Diesel Oil 5L		15/06/2016	
3	24820403	2	Clutch Plate Kit		15/06/2016	
3	24820403	2	Clutch Plate Kit		15/06/2016	



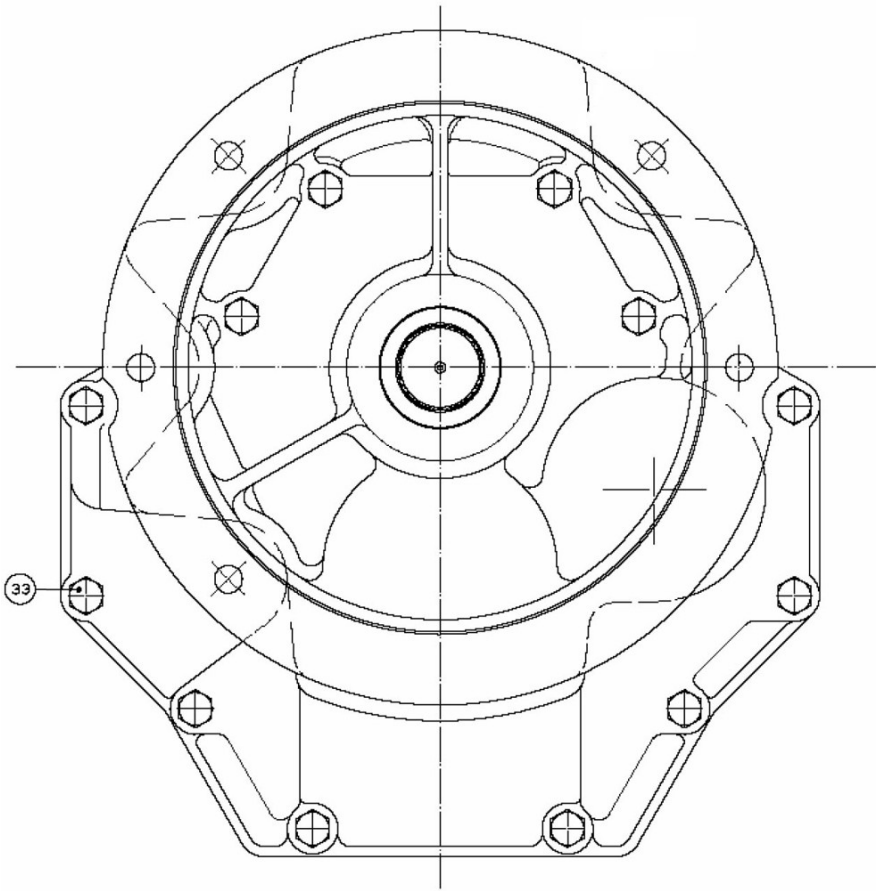
D_5023_1 Sheet 1/4

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

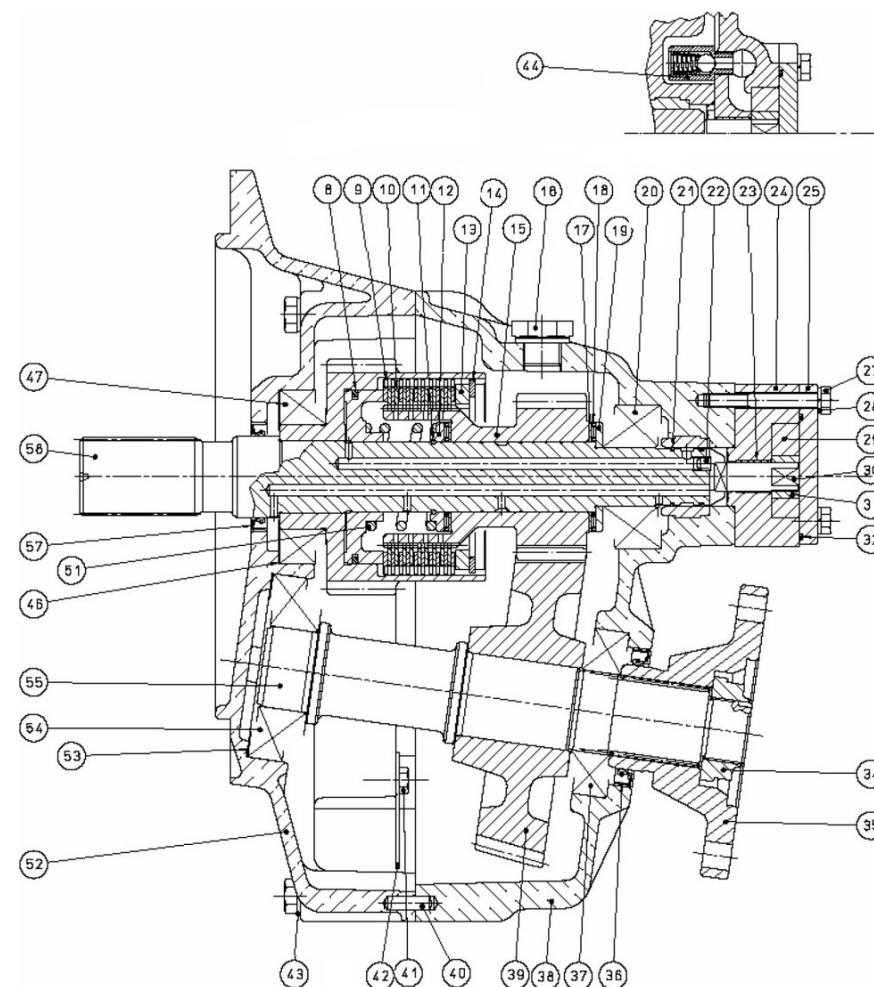
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
33	24830113	1	Screw			



D_5023_3

Sheet 3/4

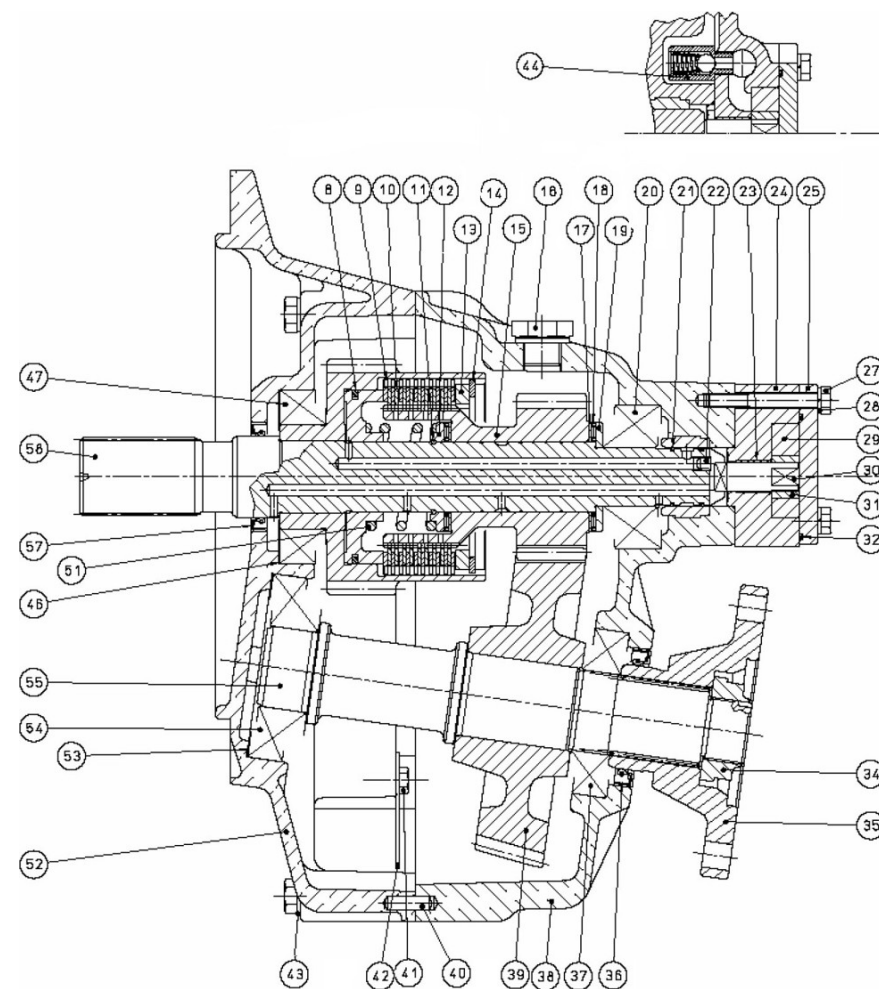
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24850323	2	Washer			
11	24850310	2	Ring			
12	24850307	2	Ring			
13	24850333	2	Spacer			
14	24850312	2	SEGER			
15A	24852203	1	Gear R. 1,54 TM 345			
15B	24853203	1	Gear R. 2 TM 345			
15C	24854203	1	Gear R. 2,47 TM 345			
16	24850012	1	Plug			
17	24850318	4	Ring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

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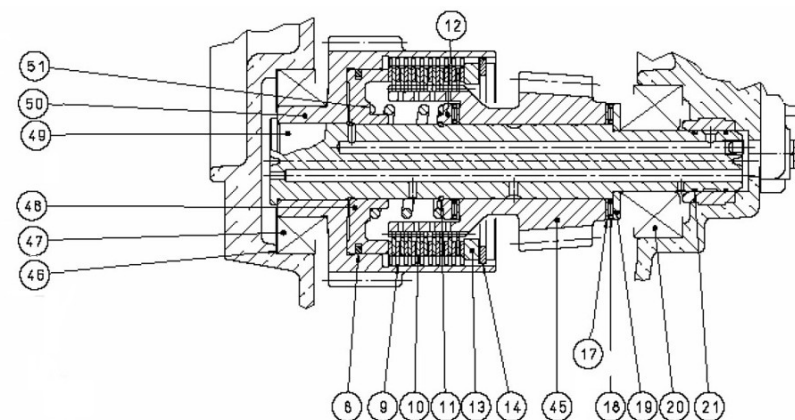
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
39C	24854210	1	Gear R. 2,47 TM 345			
40	24850013	2	Pin			
42	24850080	1	Plate Pipe			
43	24850093	12	Washer			
44	24850063	1	By pass Valve			
46	24850108	6	Shim Adjusting			
47	24850104	2	Conical Roller Bearing 32009-X			
51	24850122	2	Spring			
52	24850207	1	Cover 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			



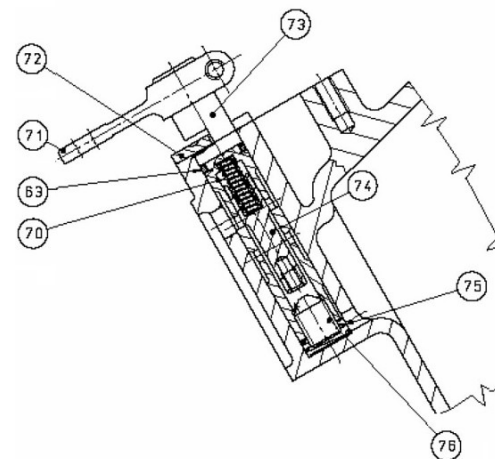
D_5023_4

Sheet 4/4

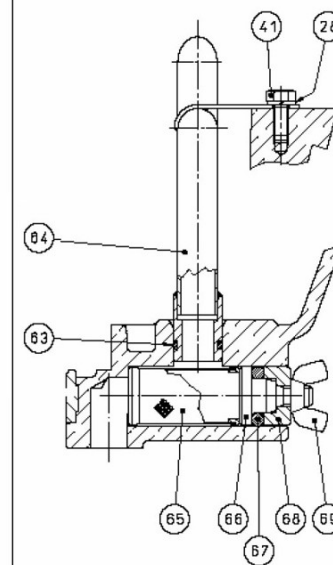
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
45A	24852203	1	Gear R. 1,54 TM 345			
45B	24853203	1	Gear R. 2 TM 345			
45C	24854203	1	Gear R. 2,47 TM 345			
48	24850124	2	Piston			
49	24850301	1	INTERMEDIATE Shaft			
50	24850330	1	Bell			
63	24810045	2	O-Ring D. 15,08X2,62			
64	24850081	1	Aspiration Tube			
65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

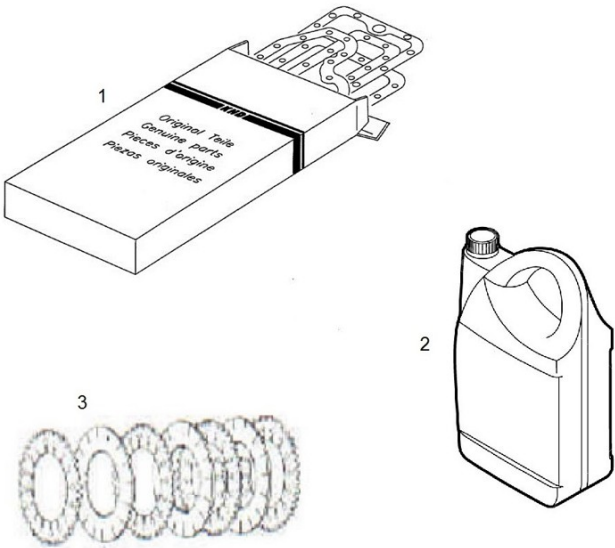


SELECTOR VALVE ASSEMBLY



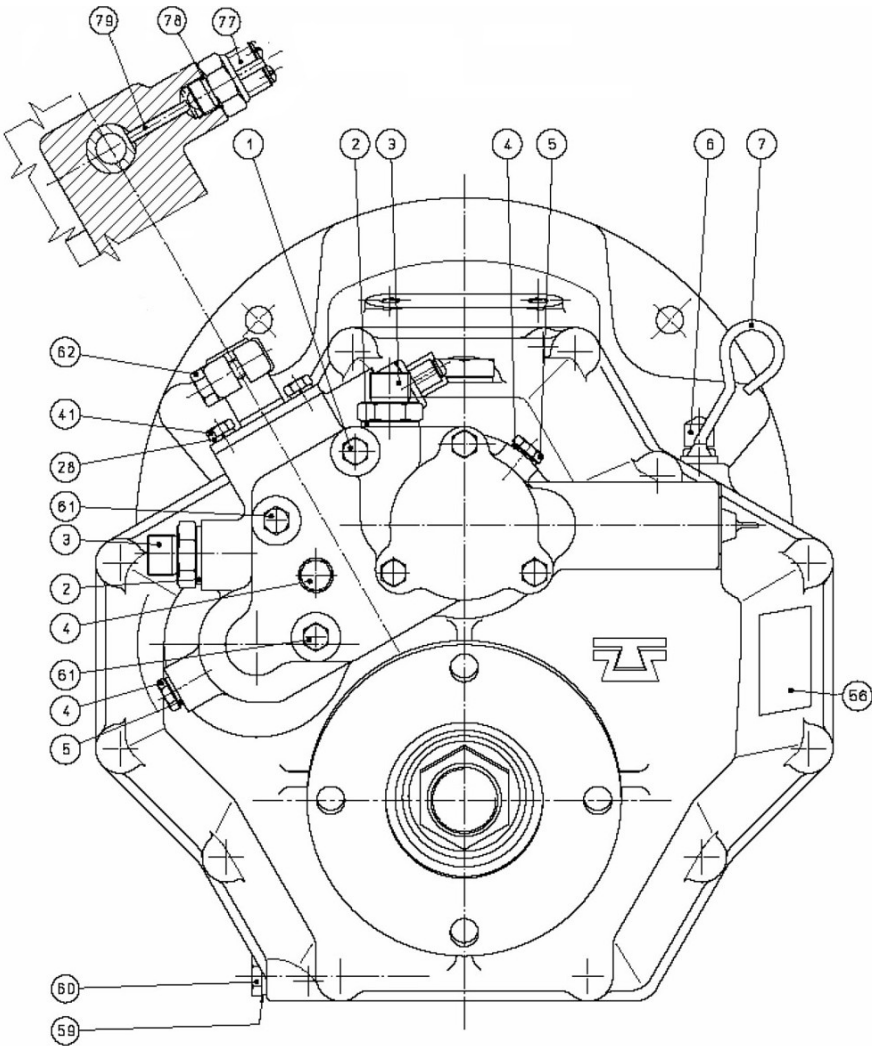
OIL FILTER ASSEMBLY

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			



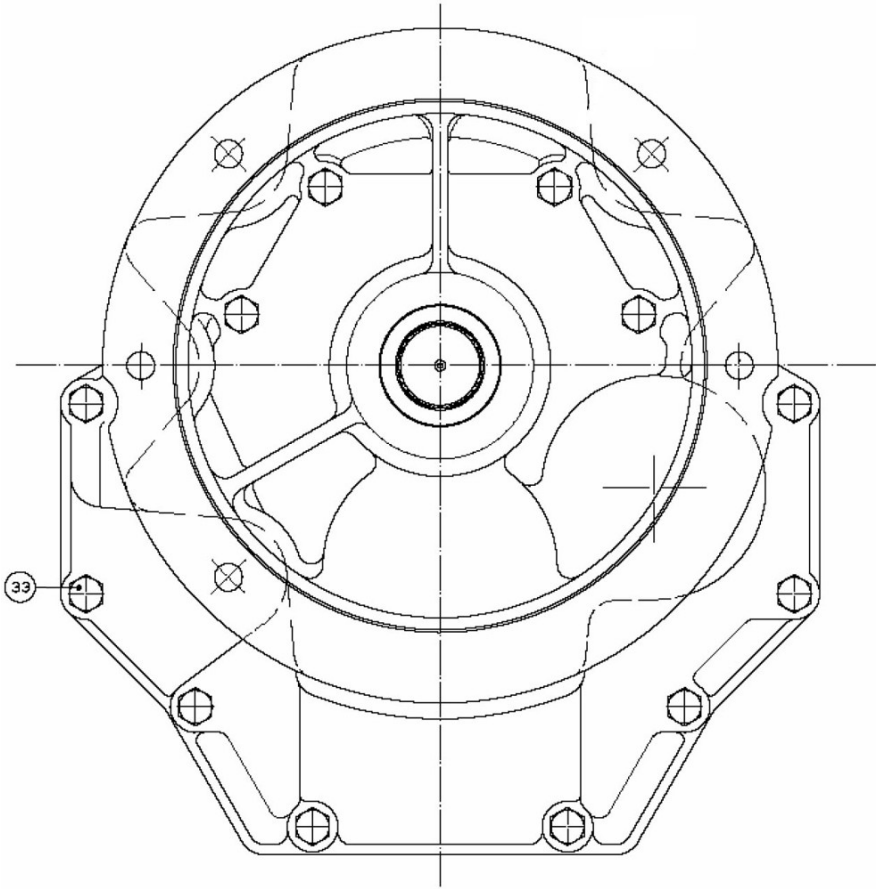
D_5024_1 Sheet 1/4

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			



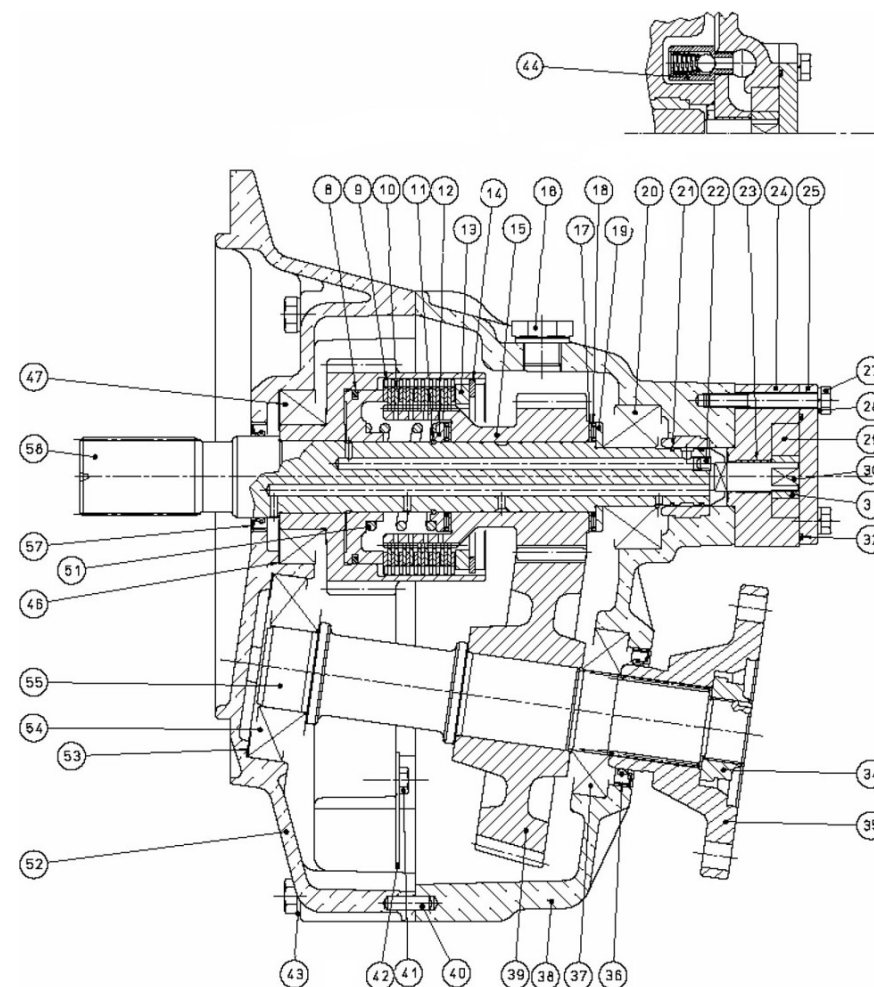
D_5024_2 Sheet 2/4

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



D_5024_3 Sheet 3/4

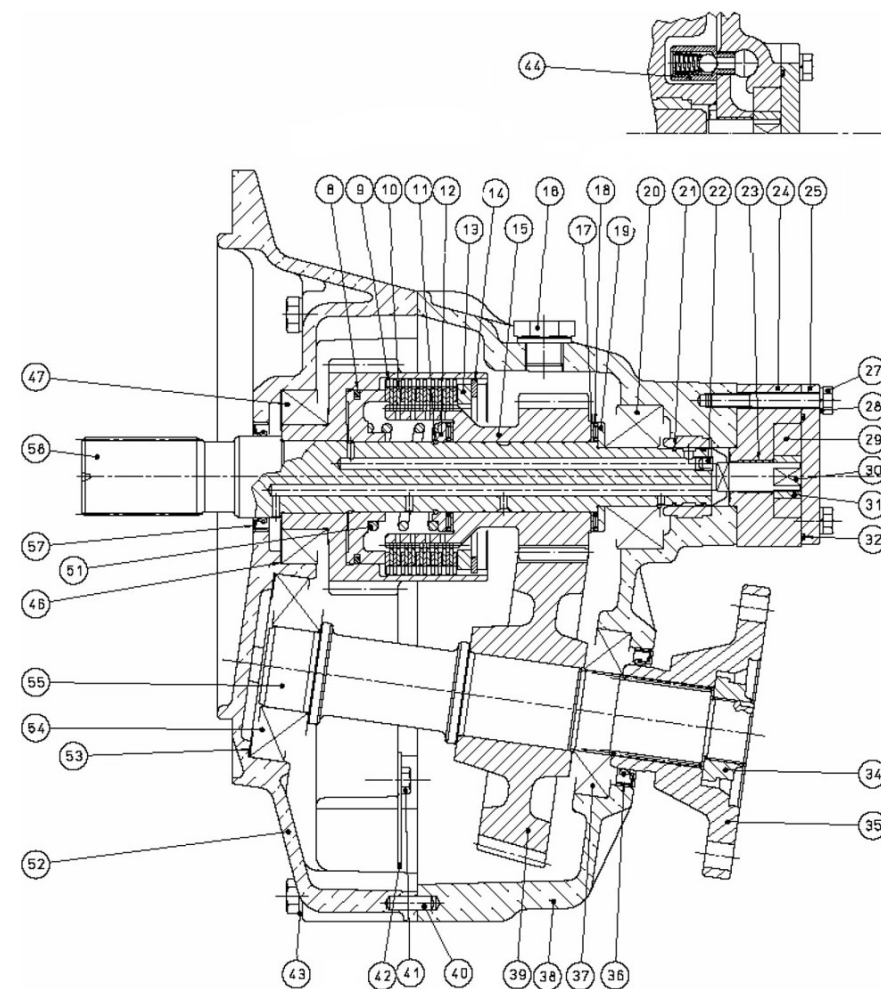
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
8	24850323	2	Washer			
11	24850310	2	Ring			
12	24850307	2	Ring			
13	24850333	2	Spacer			
14	24850312	2	SEGER			
15A	24852203A	1	Gear R. 1,54 TM 345A			
15B	24853203A	1	Gear Red. 2 TM 345A			
15C	24854203A	1	Gear R. 2,47 TM 345A			
16	24850012	1	Plug			
17	24850318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

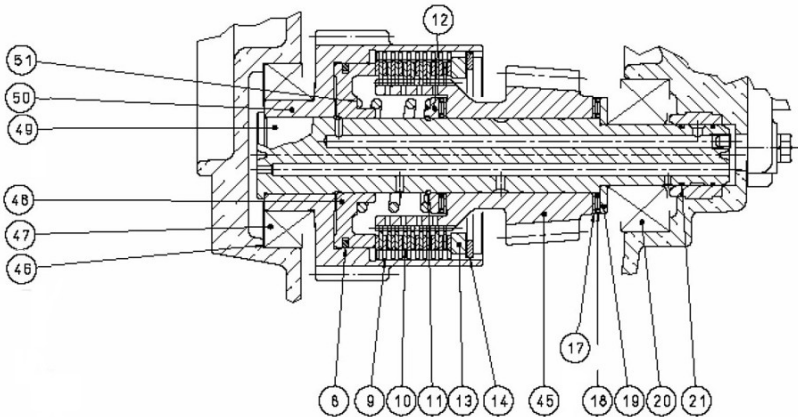
Sheet 3/4

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			

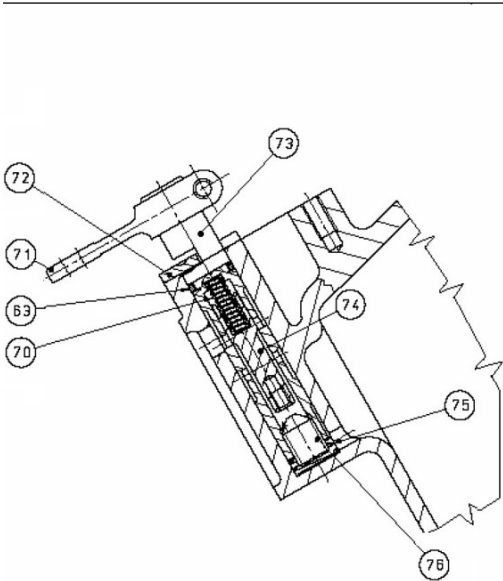


D_5024_4 Sheet 4/4

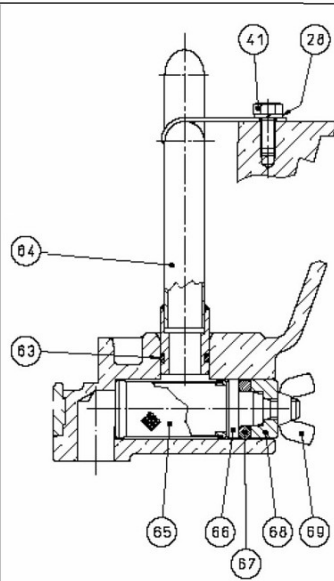
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
45A	24852302	1	Gear R. 1,54 TM 345A			
45B	24853302	1	Gear R. 2 TM 345A			
45C	24854302	1	Gear R. 2,47 TM 345A			
48	24850124	2	Piston			
49	24850301	1	INTERMEDIATE Shaft			
50	24850330	1	Bell			
63	24810045	2	O-Ring D. 15,08X2,62			
64	24850081	1	Aspiration Tube	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

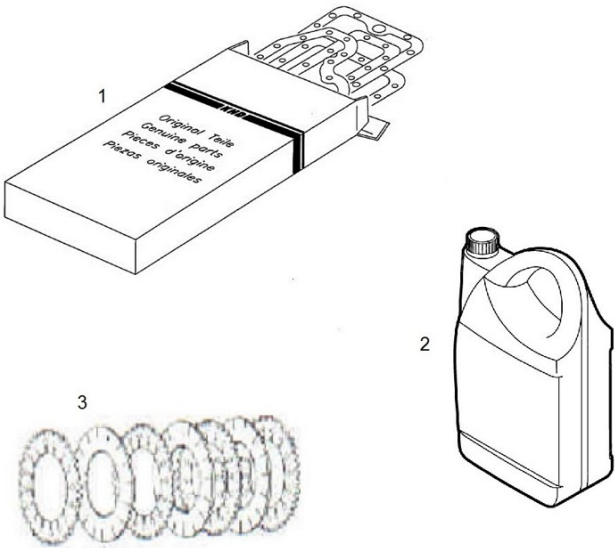


SELECTOR VALVE ASSEMBLY



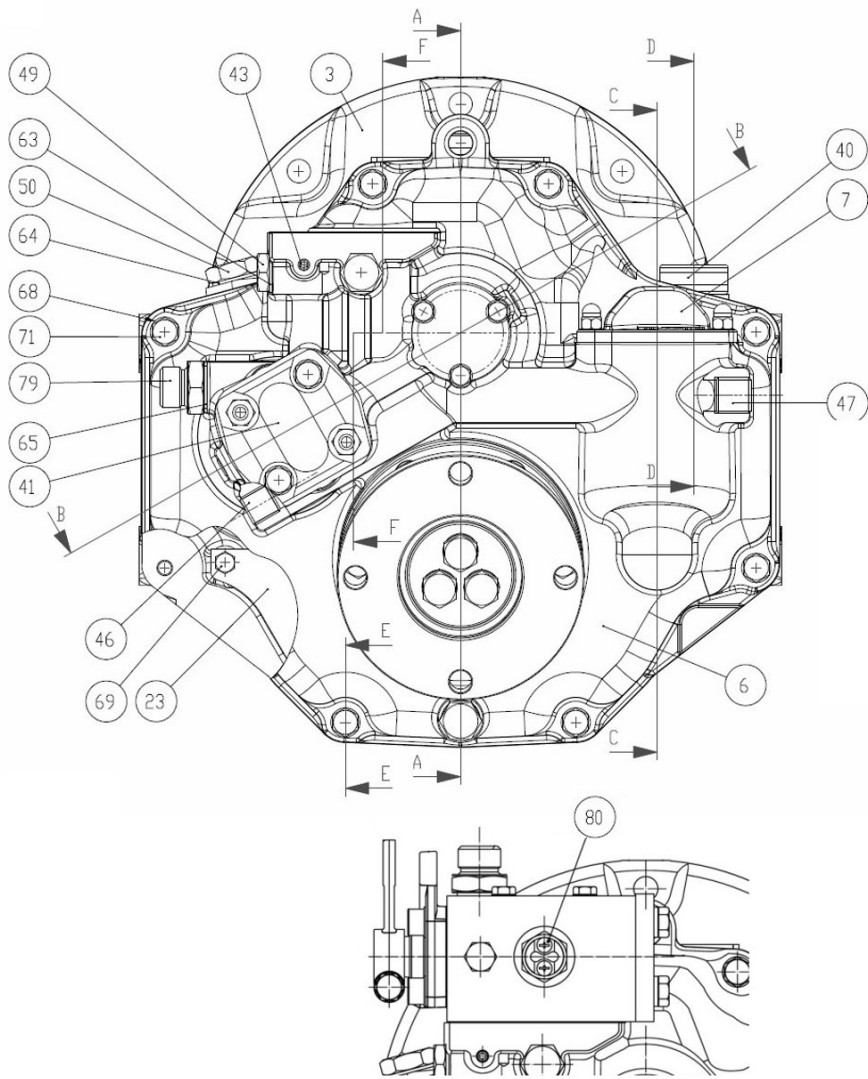
OIL FILTER ASSEMBLY

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_5025_1 Sheet 1/4

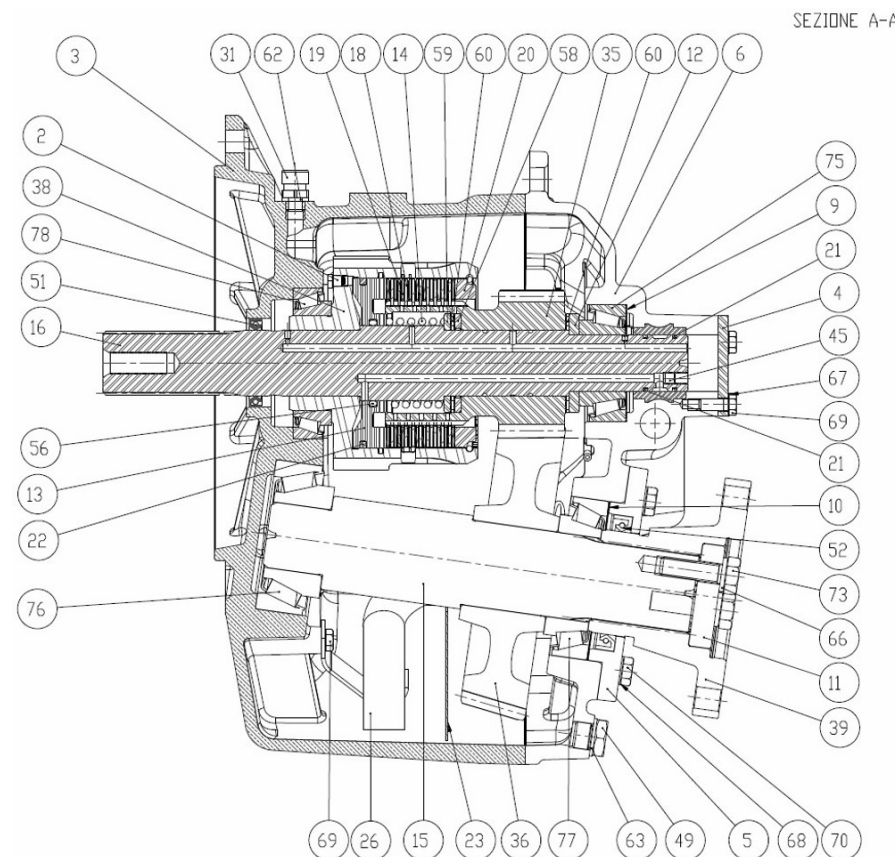
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
3	24873001.1	1	Housing TM 485A1			
6	24870102.1	1	Cover			
7	24870007.1	1	Cover			
23	24870080.1	1	BULKHead			
40	24870008.1	1	Gauge Oil LEVEL			
41	24870043	1	Pump Assy Oil			
43	24810506	1	Screw			
46	24870045.1	1	Screw			
47	24870046.1	1	Screw			
49	24810011	3	Plug,oil drain			
50	24830017	1	Plug			
63	24810088	3	Plane Washer			
64	24830016	1	Washer			
65	24850092	1	Washer			
68	24850093	16	Washer			
69	24810044	7	Screw			
71	24830025	8	Screw			
79	24810527	1	SCREW, RACORD			
80	24810532	1	SWITCHER			



D_5025_2

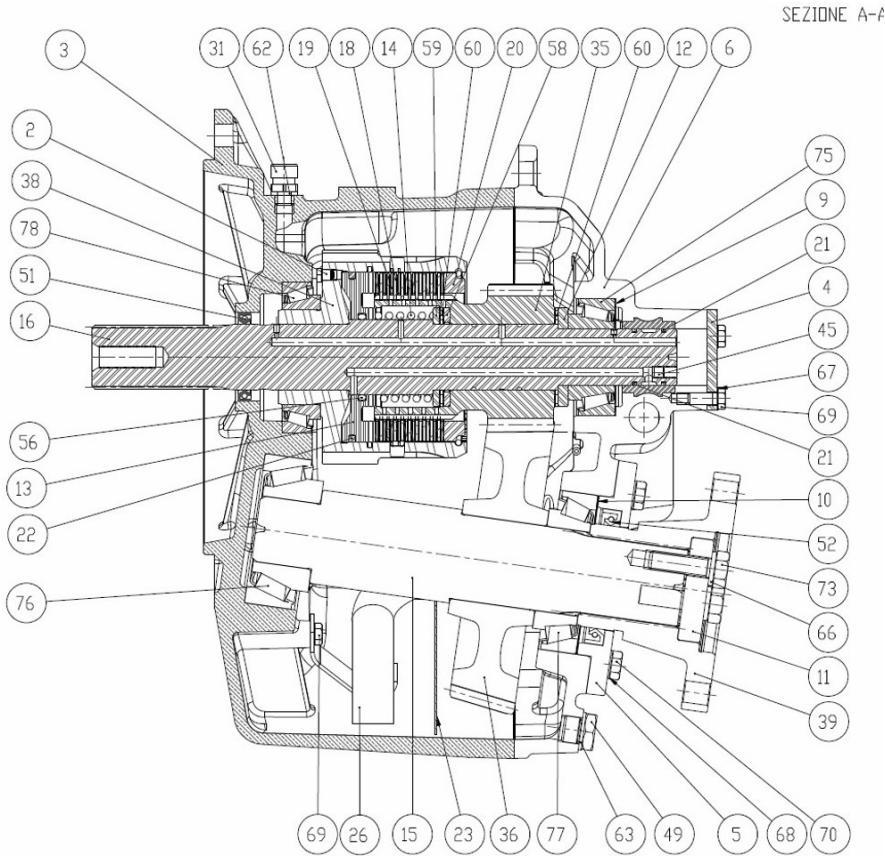
Sheet 2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
2	24870062	2	Selector Valve			
3	24873001.1	1	Housing TM 485A1			
4	24870105	1	REAR Cover Input Shaft			
5	24870208	1	REAR Cover Output Shaft			
6	24870102.1	1	Cover			
9	24813500.67	6	Spacer			
10	24870219	3	Shim			
11	24870222	1	Washer			
12	24810307	2	Washer			
13	24870124	2	Piston			
14	24810322	2	Spring			
15	24870201	1	Output Shaft			
16	24873101	1	Input Shaft			
18	24810316	18	Disk			
19	24870115	20	Conduct Disk			
20	24870113	2	Retainer Ring			
21	24810328	4	Washer			
22	24810325	2	Washer			
23	24870080.1	1	BULKHead			
26	24870081.1	1	SUCTION Pipe			
31	24810065	1	Plug			
35	24873203	1	Gear R.2,09			
36	24873210	1	Gear R.2,09			
38	24870203	1	TRANSFER Gear,LAY Shaft			
39	24870224	1	Flange Output			
45	24850087	2	Plug			
49	24810011	3	Plug,oil drain			
51	24810103	1	Oil Grommet			
52	24870214	1	LIP Seal			
56	24870059	2	O-Ring			
58	24870318	2	THRUST RACE			



D_5025_2 Sheet 2/4

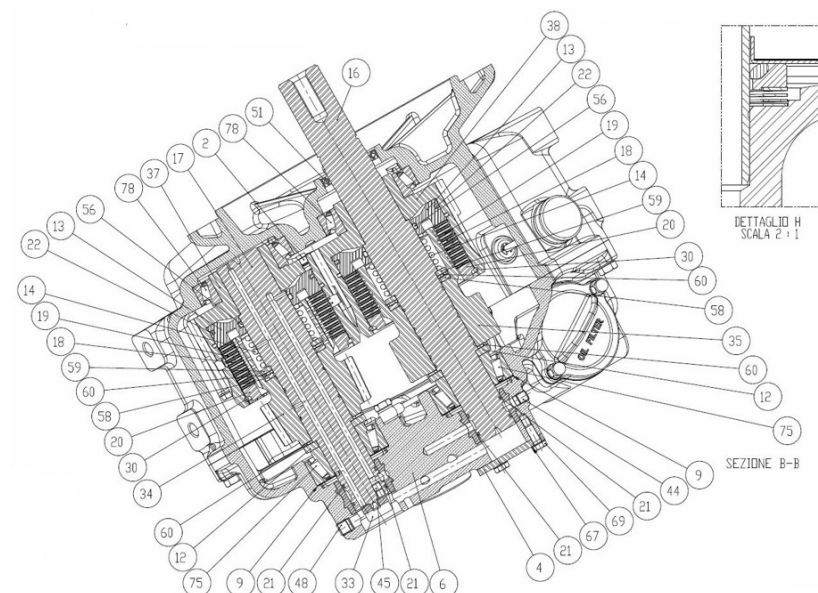
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
59	24870118	2	THRUST RACE			
60	24810309	4	Roller			
62	24810063	1	Plane Washer			
63	56000069	3	Washer 14-20-1,5			
66	24820075	3	Washer			
67	24860092	5	Washer			
68	24850093	16	Washer			
69	52102156	7	Bolt DIN 933 M6-16 8.8			
70	24810047	6	Screw			
73	52101310	3	Bolt DIN 931 M10-35 8.8			
75	24870207	2	Bearing			
76	24870212	1	Conical Roller Bearing 30307			
77	24870205	1	Bearing			
78	24870206	2	Bearing			



D_5025_3

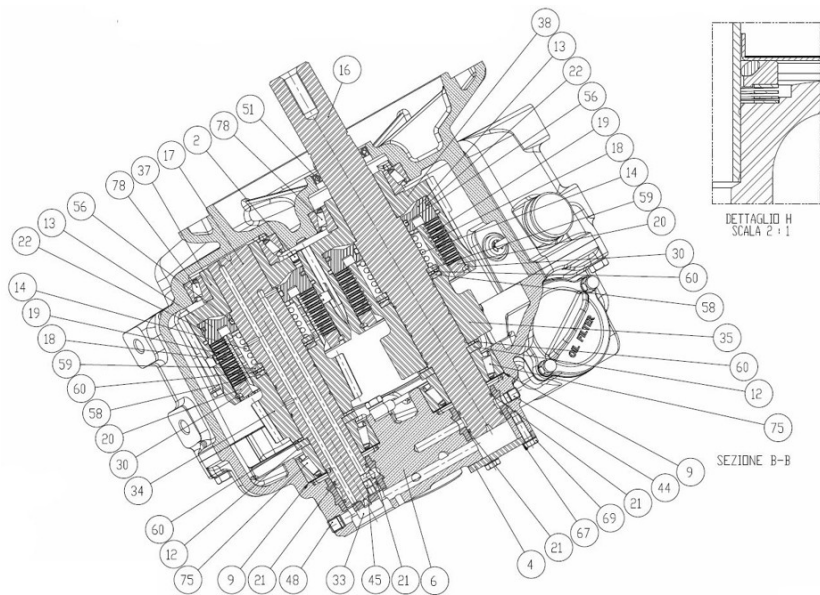
Sheet 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24810062	1	Valve BY PASS			
2	24870062	2	Selector Valve			
4	24870105	1	REAR Cover Input Shaft			
6	24870102.1	1	Cover			
9	24813500.67	6	Spacer			
12	24810307	2	Washer			
13	24870124	2	Piston			
14	24810322	2	Spring			
16	24873101	1	Input Shaft			
17	24870301	1	LAY Shaft			
18	24810316	18	Disk			
19	24870115	20	Conduct Disk			
20	24870113	2	Retainer Ring			
21	24810328	4	Washer			
22	24810325	2	Washer			
27	24870082.1	1	Pipe			
28	24870083.1	1	PIPE			
29	24870084.1	1	Bushing			
30	24870310	2	FIXING Ring			
32	24870035.1	1	Oil Filter			
33	24870303	1	Cover			
34	24873302	1	Gear R.2,09			
35	24873203	1	Gear R.2,09			
37	24870103	1	TRANSFER Gear,PRIMARY Shaft			
38	24870203	1	TRANSFER Gear,LAY Shaft			
42	24870086.1	1	Spring			
44	24870044.1	1	Screw			
45	24850087	2	Plug			
48	24870047.1	1	Screw			
51	24810103	1	Oil Grommet			
55	24870009	1	O-Ring			



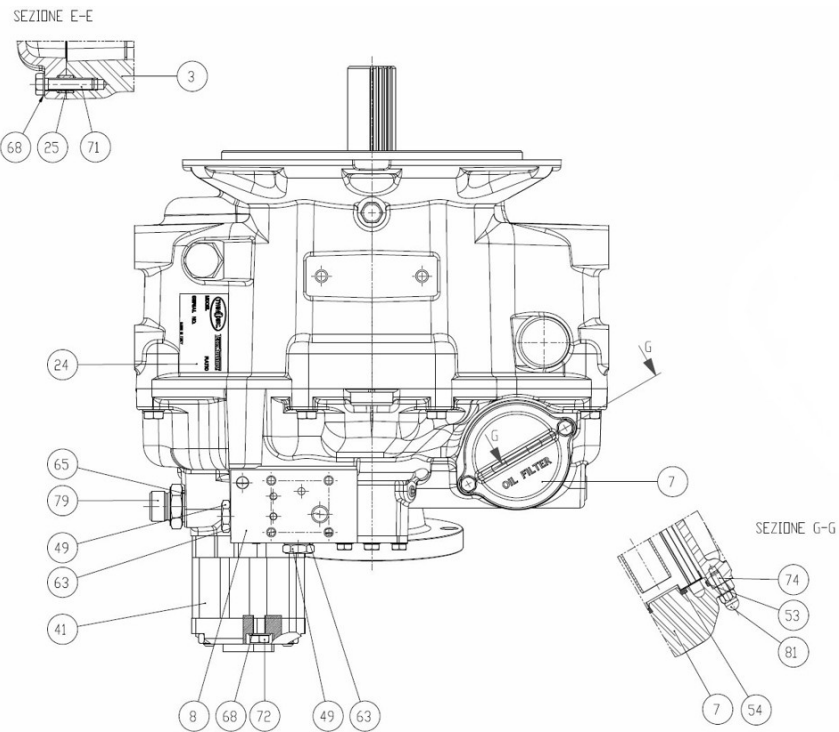
D_5025_3 Sheet 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
56	24870059	2	O-Ring			
57	24870011.1	1	O-Ring			
58	24870318	2	THRUST RACE			
59	24870118	2	THRUST RACE			
60	24810309	4	Roller			
61	24820086	2	Washer			
67	24860092	5	Washer			
69	24810044	7	Screw			
75	24870207	2	Bearing			
78	24870206	2	Bearing			
80	24870083	1	PIPE			

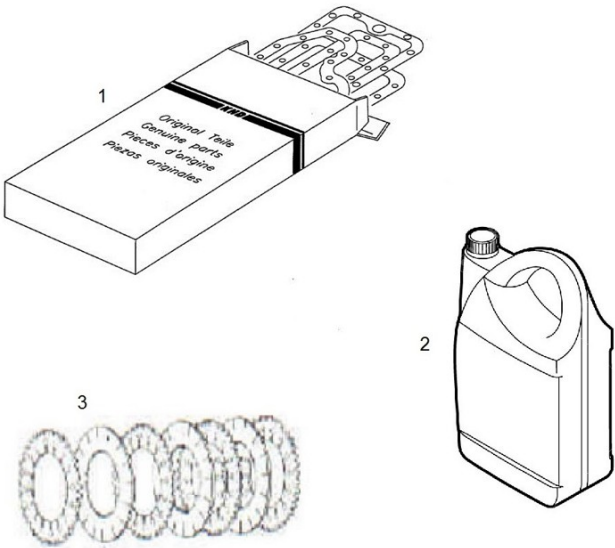


D_5025_4 Sheet 4/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
3	24873001.1	1	Housing TM 485A1			
7	24870007.1	1	Cover			
8	24870015	1	Gasket			
24	24850005	1	Plate, IDENTIFICATION			
25	24870085	2	Pin			
41	24870043	1	Pump Assy Oil			
49	24810011	3	Plug,oil drain			
53	24870009.1	1	O-Ring			
54	24870010.1	2	O-Ring			
63	24810088	3	Plane Washer			
65	24850092	1	Washer			
68	24850093	16	Washer			
71	24830025	8	Screw			
72	24870044	2	Screw			
74	24870071	2	Stud			
79	24810527	1	SCREW, RACORD			
81	24870012.1	2	Nut			

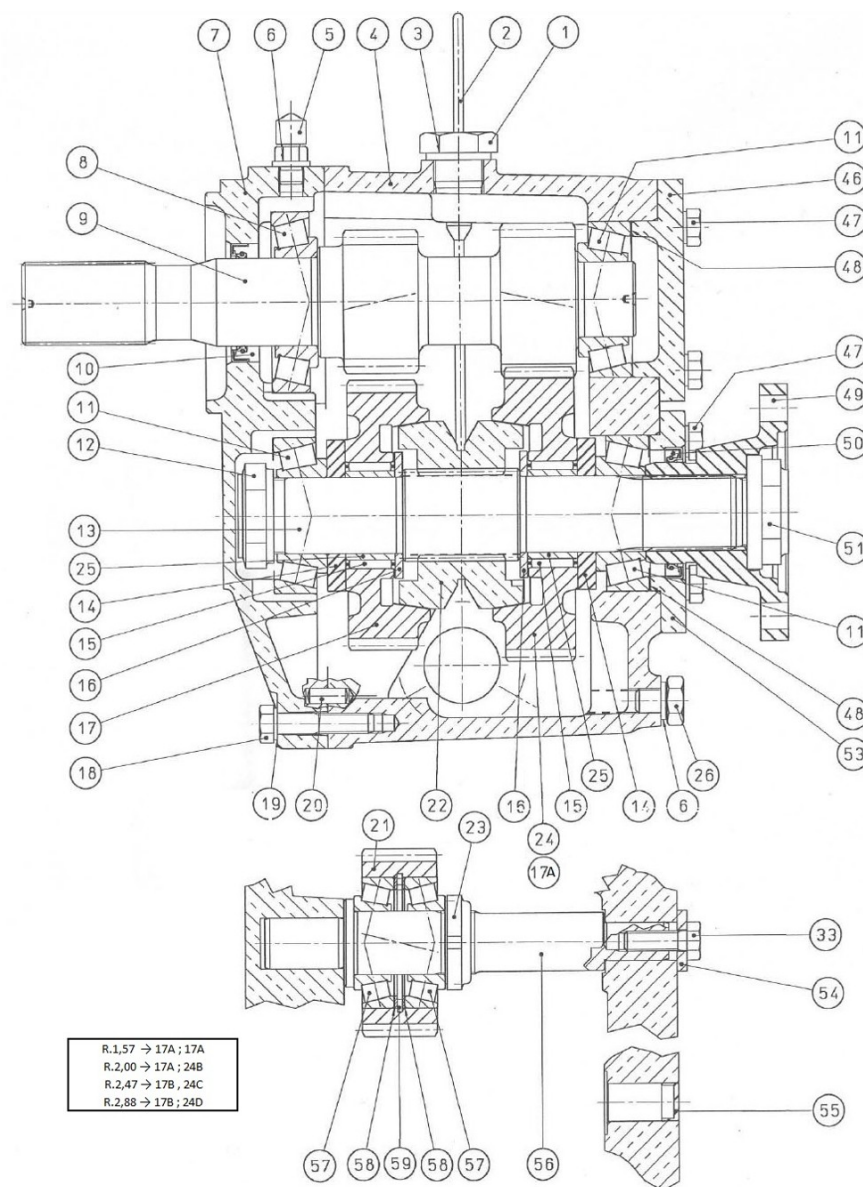


D_5025_5 Maintenance Kit						
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24873401	1	Gasket Kit		15/06/2016	
2	A0105000	1	15W40 Sole Diesel Oil 5L		15/06/2016	
3	24873403	2	Clutch Plate Kit		15/06/2016	



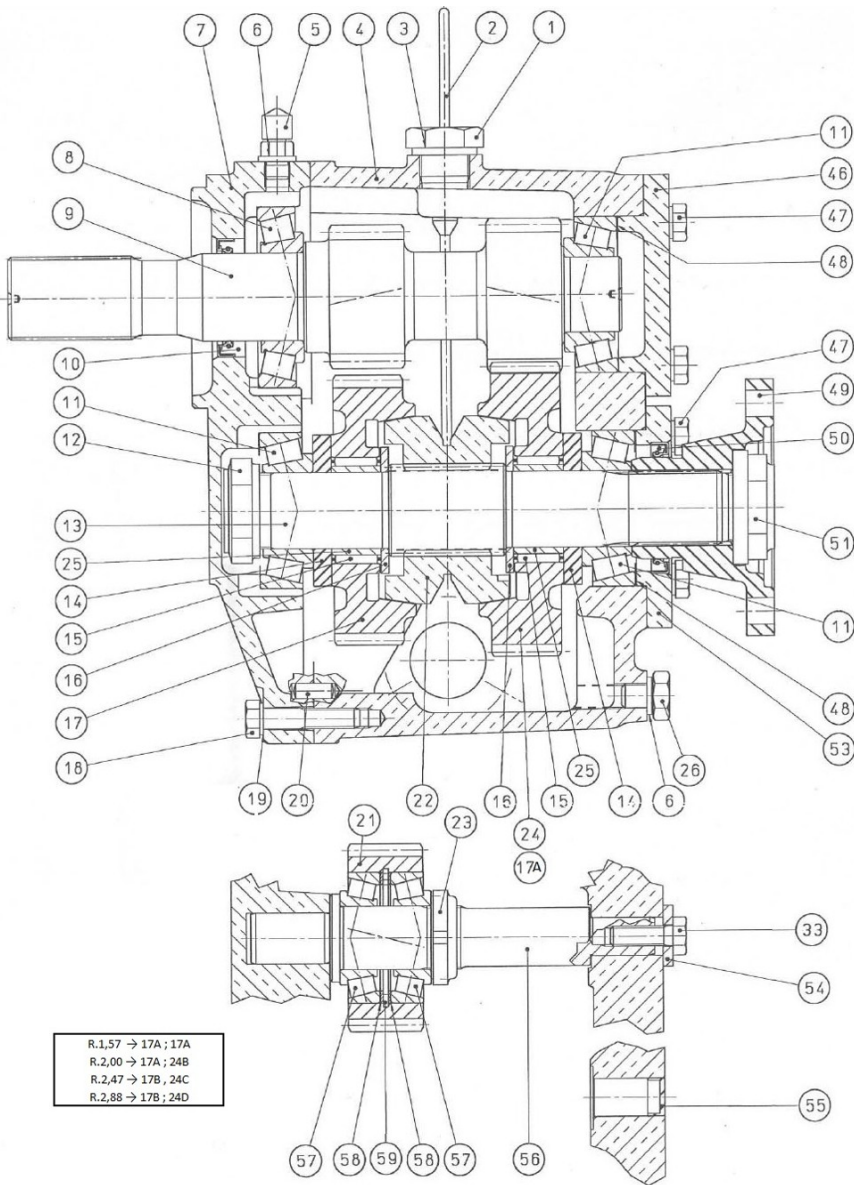
D_5032_1 Sheet 1/3

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

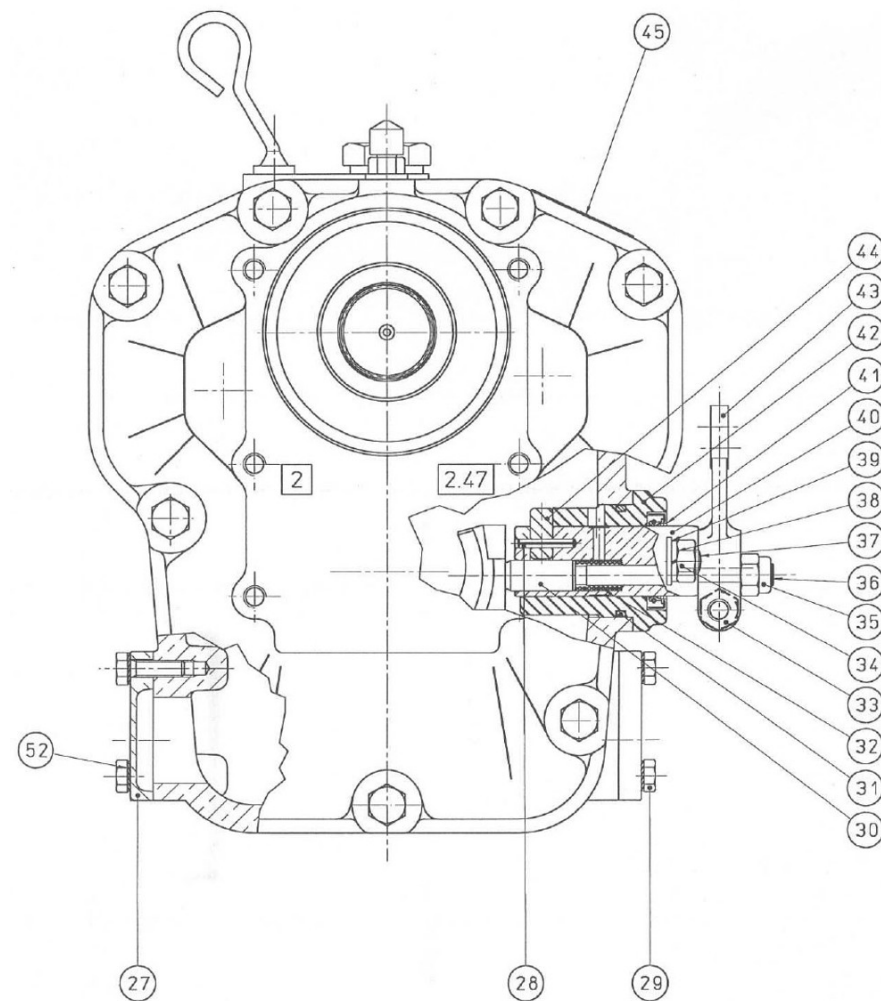
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
26	24850011	1	Plug,oil drain			
33	52102258	1	Bolt DIN 933 M8-25 8.8			
46	24890205	1	Cover			
47	52102259	8	Bolt DIN 933 M8-30 8.8			
48	24813500.67	6	Spacer			
49	24880224	1	Flange Output			22/11/2019
50	24890214	1	Oil Seal			
51	24850099	1	Nut			
53	24890208	1	Cover			
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			



D_5032_2

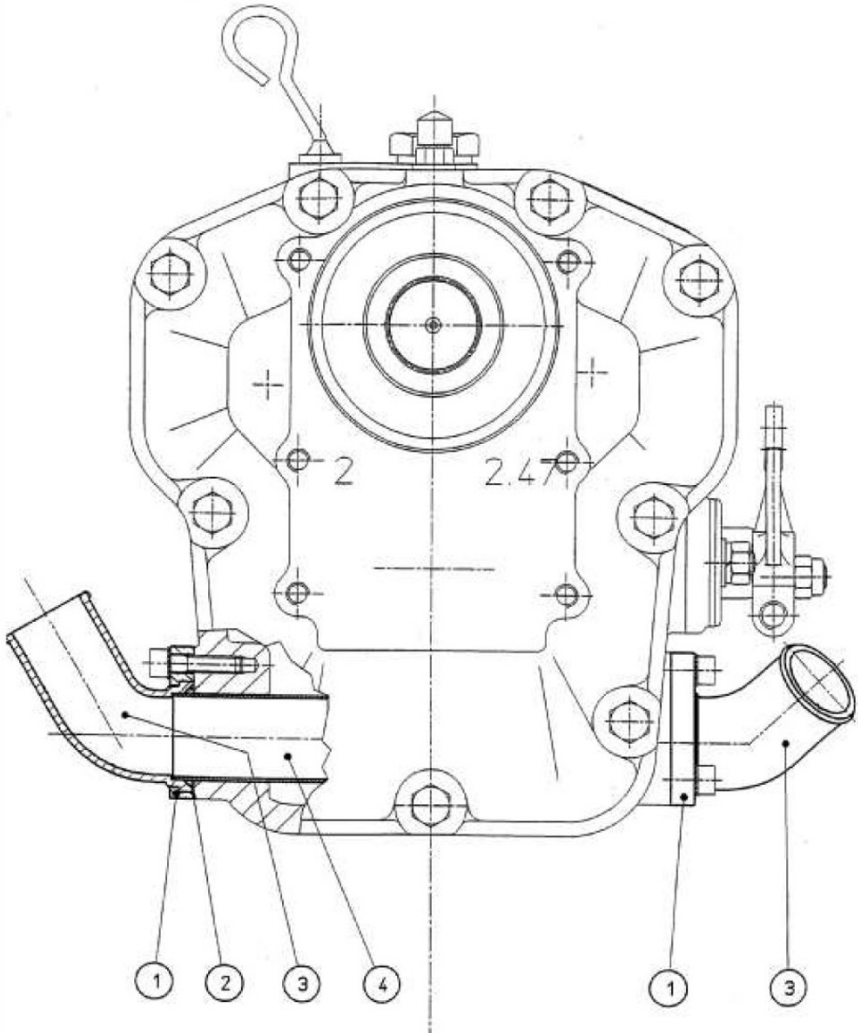
Sheet 2/3

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
27	24890026	2	Cover			
28	53052210	1	Pin DIN 1481 3-20			
29	52102257	6	Bolt DIN 933 M8-20 8.8			
30	24880423	1	Pad			
31	24860417	1	O-Ring			
32	24860411	1	Spring			
33	52102258	1	Bolt DIN 933 M8-25 8.8			
34	52120008	2	Nut DIN 934 M8 8.8			
35	51123008	1	Nut DIN 985 M8 5.6			
36	52111260	1	ROD DIN 913 M8-35 8.8			
37	24860071	2	STUD			
38	53033008	2	Washer GROWER DIN 127-8			
39	51030008	2	Washer DIN 125-8			
40	24880402	1	Shaft			
41	24860404	1	Oil Seal			
42	24880401	1	Cover			
43	24810424	1	Lever			
44	24860419	1	Pin			
45	24850005	1	Plate, IDENTIFICATION			
52	53038006	6	Washer DIN 6798-A 6			
NS	24890021	1	SAE 7 - BW housing coupling TMC			



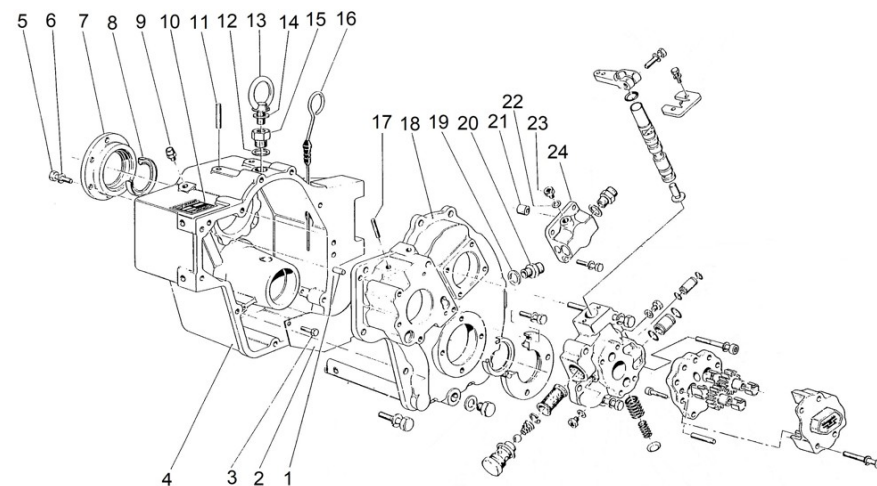
D_5032_3 Cooling System 3/3

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			



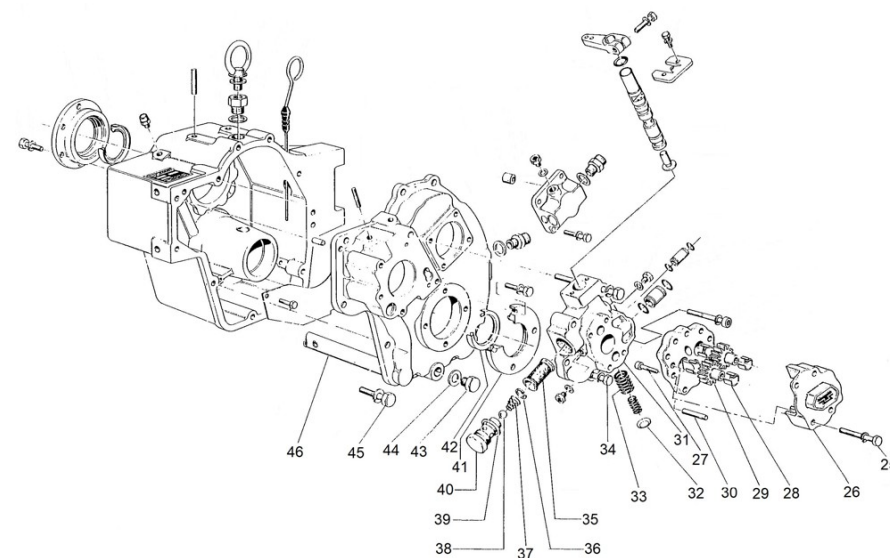
D_5026_1.1 **Sheet 1.1/4**

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24820090	2	Pin			
2	24816080	1	Plate Pipe			
3	24810082	2	Screw			
4	24816001	1	Front Body TM 880A			
5	24810047	6	Screw			
6	24810014	6	Washer			
7	24820072	1	Cover Input Shaft			
8	24820103	1	Oil Grommet			
9	24810065	1	Plug			
10	24820005.1	1	NAME Plate			
11	24810071	2	Stud			
12	56000083	1	Washer 21-26-1,5			
13	24810012	1	Nut			
14	24810063	1	Plane Washer			
15	24810068	1	Plug			
16	24810008	1	ROD, Oil LEVEL			
17	24820071	2	Stud			
18	24816002	1	REVERSE Body TM 880A			
19	24810059	1	Plane Washer			
20	24810060	1	Racord			
21	24810062	1	Valve BY PASS			
22	24820086	1	Washer			
23	24830105	1	Plug			
24	24820102	1	Cover, REAR			



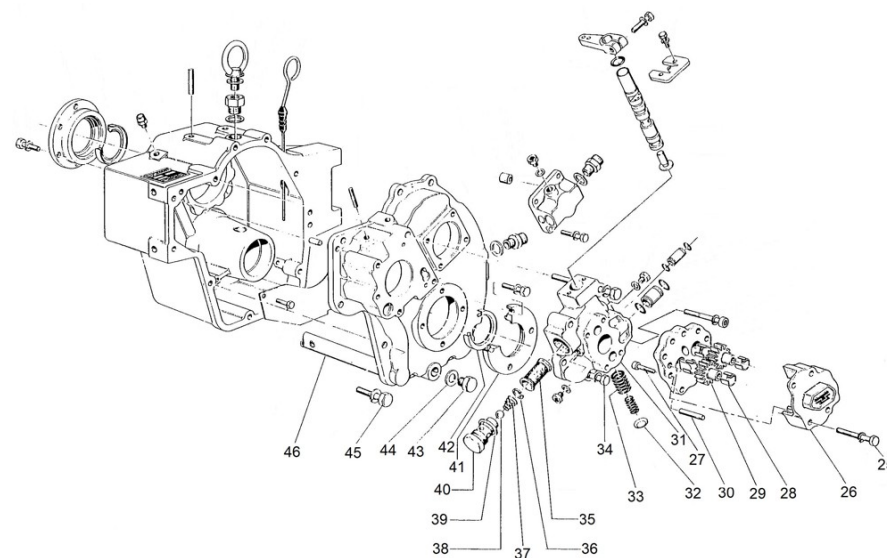
D_5026_1.2 Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
25	24810013	4	Screw			
25	24810013	4	Screw			
26	24820015.1	1	Oil Pump Body			
26	24820015.1	1	Oil Pump Body			
27	24820025.1	3	Screw			
27	24820025.1	3	Screw			
28	24810025	4	Bushing			
28	24810025	4	Bushing			
29	24810096	1	Gear, Driver			
29	24810096	1	Gear, Driver			
30	24820023.1	2	Pin			
30	24820023.1	2	Pin			
31	24820026	1	Distributor Cap			
31	24820026	1	Distributor Cap			
32	24810055	1	Expansion Plug			
32	24810055	1	Expansion Plug			
33	24816054	1	Spring, Valve			
33	24816054	1	Spring, Valve			
34	24820098	2	Screw M10X50			
34	24820098	2	Screw M10X50			
35	24810035	1	Oil Filter			
35	24810035	1	Oil Filter			
36	24810032	1	SNAP Ring			
36	24810032	1	SNAP Ring			
37	24810030	1	Valve Spring			
37	24810030	1	Valve Spring			
38	18024143	1	Ball,steel 1/2"			
38	18024143	1	Ball,steel 1/2"			
39	24810027	1	Washer			
39	24810027	1	Washer			
40	24810024	1	Plug, Oil Filter DRAIN			



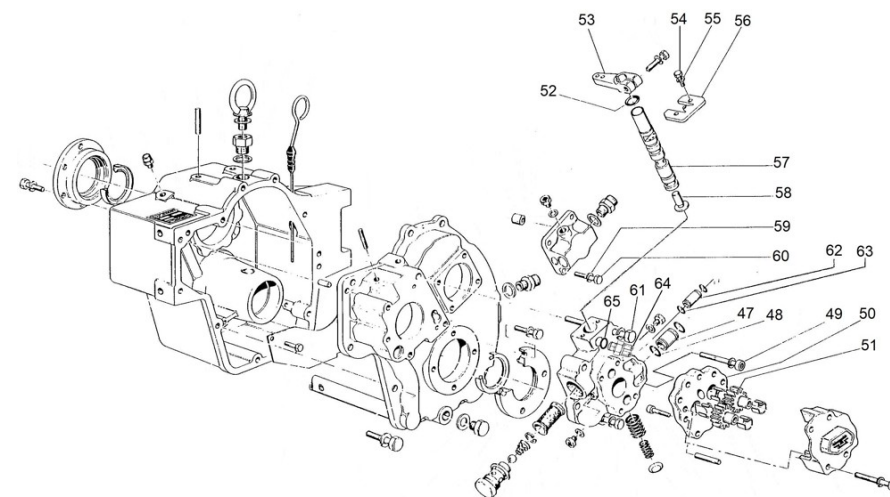
D_5026_1.2 Sheet 1.2/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
41	24820208	1	Cover Front			
42	24820214	1	Grommet			
42	24820214	1	Grommet			
43	24810011	1	Plug,oil drain			
43	24810011	1	Plug,oil drain			
44	24810088	1	Plane Washer			
44	24810088	1	Plane Washer			
45	52101314	1	Bolt DIN 931 M10-55 8.8			
45	52101314	1	Bolt DIN 931 M10-55 8.8			
46	24816081	1	Aspiration Tube TM 880A			
46	24816081	1	Aspiration Tube TM 880A			
NS	52103311	9	Bolt DIN 912 M10-40 8.8			
NS	52103311	9	Bolt DIN 912 M10-40 8.8			



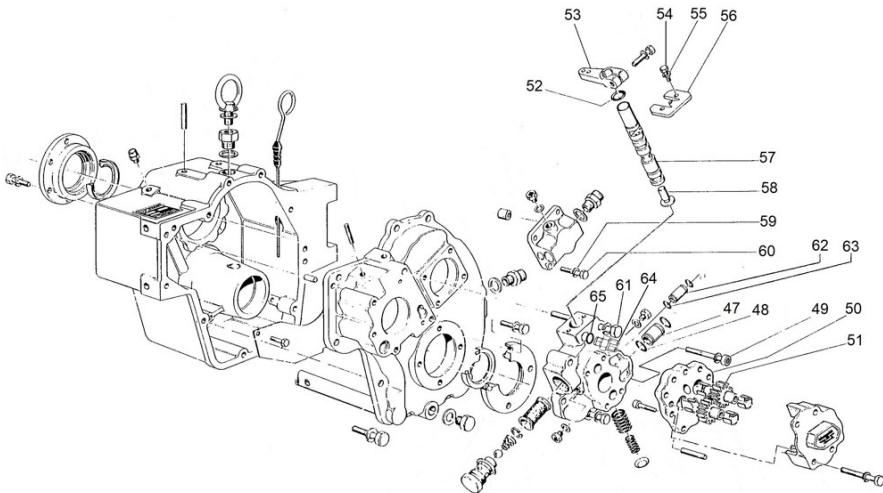
D_5026_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
47	24820062	2	Tube, Racord			
47	24820062	2	Tube, Racord			
48	24820063	2	O-Ring D. 15X1,7			
48	24820063	2	O-Ring D. 15X1,7			
49	24820013	2	Screw M10X30			
49	24820013	2	Screw M10X30			
50	24810026.1	3	Cover			
50	24810026.1	3	Cover			
51	24810095	3	Gear, Driven			
51	24810095	3	Gear, Driven			
52	24810056	1	O-Ring			
52	24810056	1	O-Ring			
53	24810424	1	Lever			
53	24810424	1	Lever			
54	24810044	2	Screw			
54	24810044	2	Screw			
55	24810042	2	Washer			
55	24810042	2	Washer			
56	24810041	1	Support			
56	24810041	1	Support			
57	24810051	1	Distributor			
57	24810051	1	Distributor			
58	24810052	1	Valve			
58	24810052	1	Valve			
59	24820075	4	Washer			
59	24820075	4	Washer			
60	24820076	4	Screw M10X30			
60	24820076	4	Screw M10X30			
61	24820087	1	Screw M10X130			
61	24820087	1	Screw M10X130			
62	24820060	1	Tube, Racord			

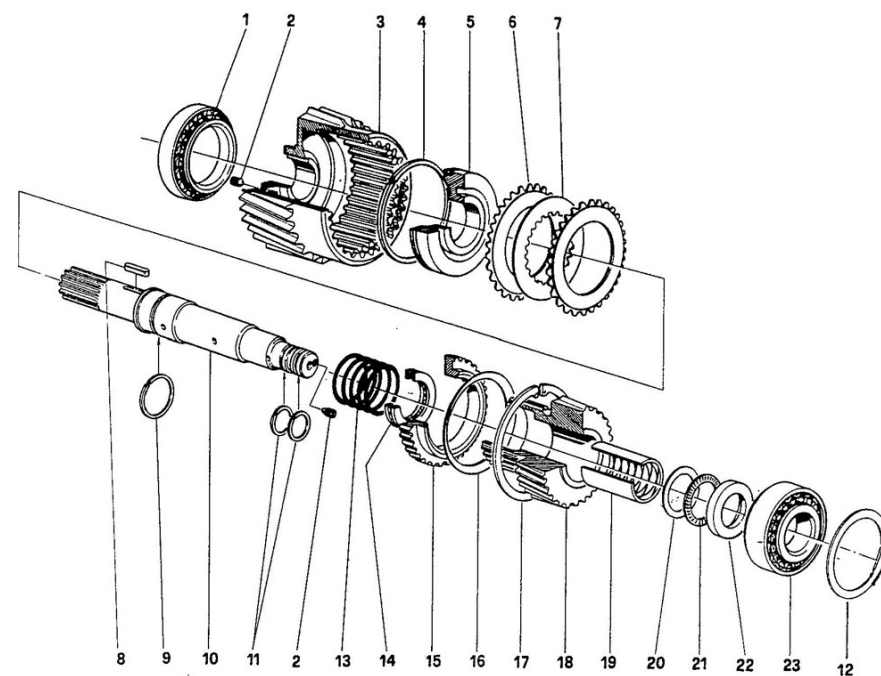


D_5026_1.3 Sheet 1.3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
63	24820059	2	O-Ring D. 10X1,7			
64	24810048	1	GR. Crazy Switch			
64	24810048	1	GR. Crazy Switch			
65	24810533	1	O-Ring D. 14X1,7			
65	24810533	1	O-Ring D. 14X1,7			

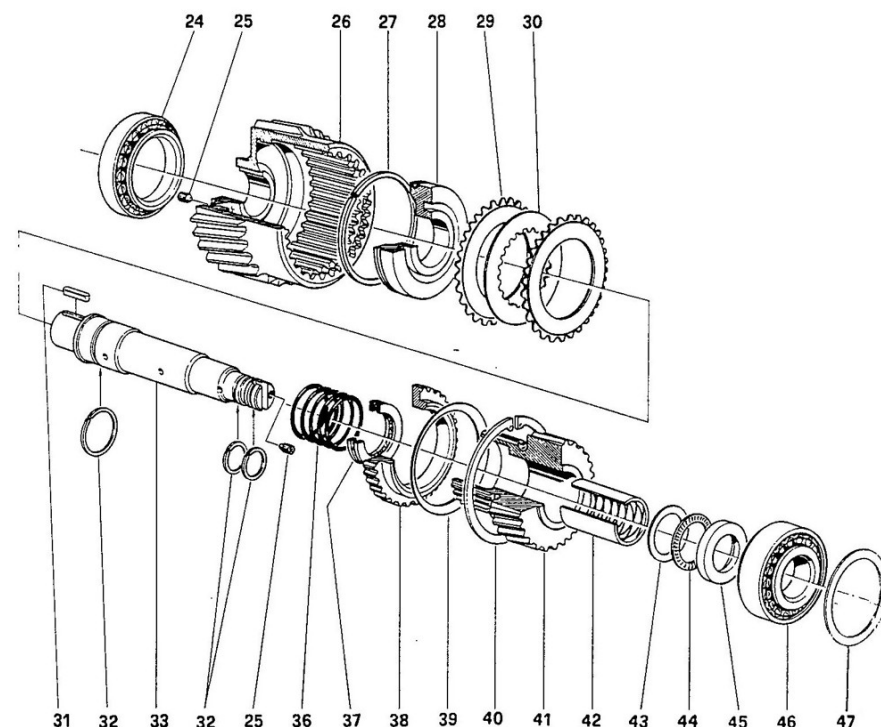


D_5026_2		Input Shaft 2/4				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24820134	1	Conical Roller Bearing 32011-JR			
2	24810326	2	Plug			
3	24820130	1	Bell			
4	24820125	1	Washer			
5	24820124	1	Piston			
6	24820115	9	Disk			
7	24820116	8	Disk			
8	24810211	1	KEY			
9	24820126	1	Washer			
10	24820101	1	Input Shaft			
11	24810328	2	Washer			
12	24810333	0	Spacer	#		
13	24820122	1	Spring			
14	24820123	1	Bearing			
15	24820113	1	Grommet			
16	24820129	1	Ring			
17	24820128	1	SNAP Ring			
18A	24822302	1	Gear R. 1,50 TM 170			
18B	24823302	1	Gear R. 2,04 TM 170			
18C	24824302	1	Gear R. 2.50 TM 170			
19	24820117	1	Bushing			
20	24820118	1	Ring			
21	24820121	1	Roller Bearing AXK-4060			
22	24820105	1	Washer			
23	24820104	1	Conical Roller Bearing 32307			



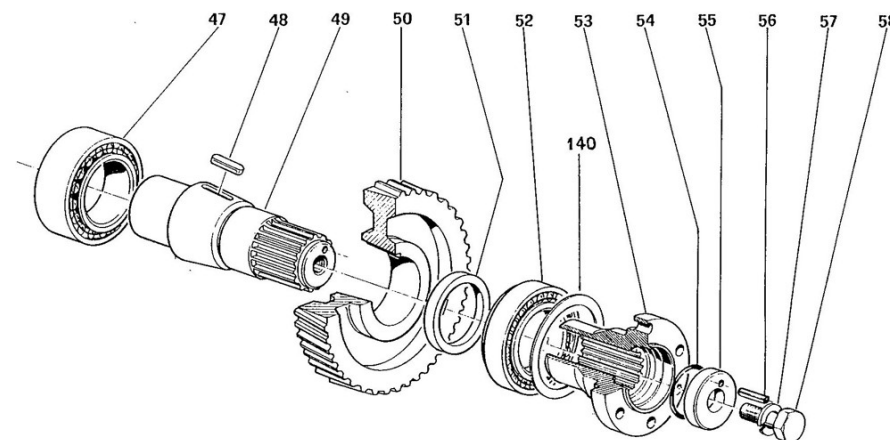
D_5026_3 Intermediate Shaft 3/4

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
24	24820134	1	Conical Roller Bearing 32011-JR			
25	24810326	2	Plug			
26	24820330	1	Bell			
27	24820125	1	Washer			
28	24820124	1	Piston			
29	24820115	9	Disk			
30	24820116	8	Disk			
31	24810211	1	KEY			
32	24820126	2	Washer			
33	24820301	1	INTERMEDIATE Shaft			
36	24820122	1	Spring			
37	24820123	1	Bearing			
38	24820113	1	Grommet			
39	24820129	1	Ring			
40	24820128	1	SNAP Ring			
41A	24822302A	1	Gear R. 1,53 TM 170A			
41B	24823302A	1	Gear R. 2,08 TM 170A			
41C	24824302A	1	Gear R. 2,60 TM 170A			
42	24820117	1	Bushing			
43	24820118	1	Ring			
44	24820121	1	Roller Bearing AXK-4060			
45	24820105	1	Washer			
46	24820104	1	Conical Roller Bearing 32307			
47	24810333	0	Spacer	#		

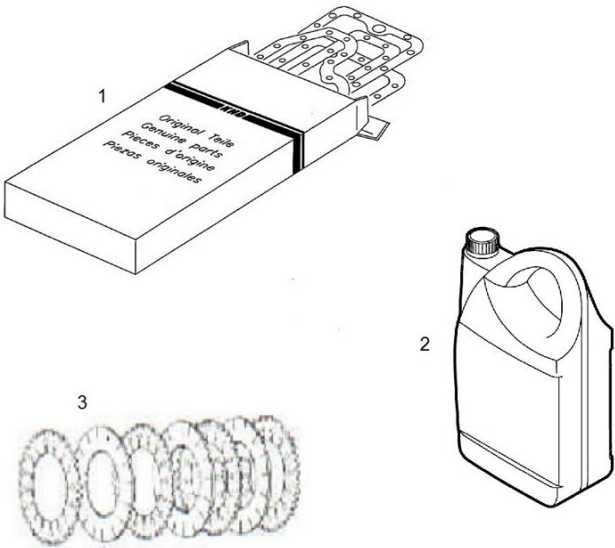


D_5026_4 **Output Shaft 4/4**

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
47	24820206	1	Conical Roller Bearing 33210			
4851	24822201AC	1	Gear+Output Shaft Kit+Spacer			
4851	24823201AC	1	Gear+Output Shaft Kit+Spacer			
4851	24824201AC	1	Gear+Output Shaft Kit+Spacer			
52	24820212	1	Conical Roller Bearing 30210-J2/Q			
53	24820224	1	Flange, Output			
54	24820225	1	O-Ring D. 45X3,5			
55	24820219	1	BUTT Washer			
56	24820220	1	Pin			
57	24820221	1	Washer D.16			
58	24820222.1	1	Screw			
140	24820333.1	0	Shim	#		

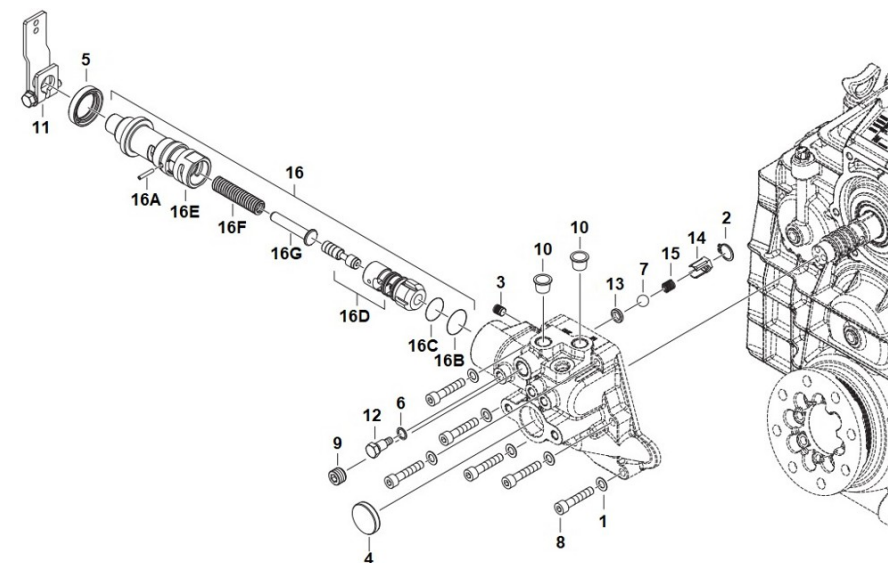


D_5027_5 Maintenance Kit						
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	24820401	1	Kit Gasket		15/06/2016	
1	24820401	1	Kit Gasket		15/06/2016	
2	A0105000	1	15W40 Sole Diesel Oil 5L		15/06/2016	
2	A0105000	1	15W40 Sole Diesel Oil 5L		15/06/2016	
3	24820403	2	Clutch Plate Kit		15/06/2016	
3	24820403	2	Clutch Plate Kit		15/06/2016	



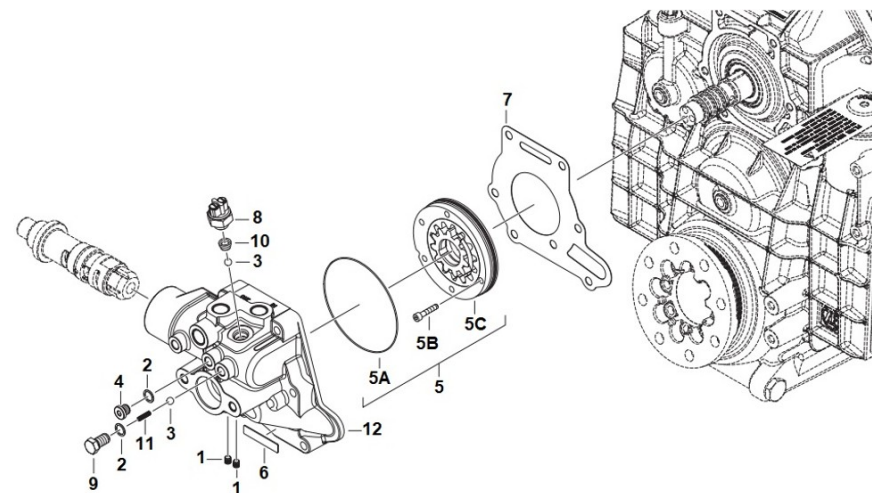
D_ZF68_1 Sheet 1/5

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			



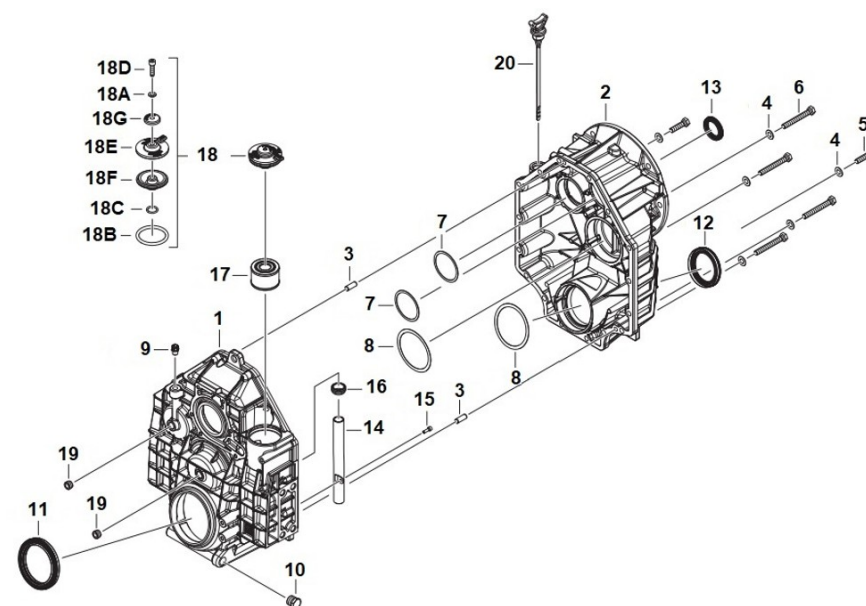
D_ZF68_2 Sheet 2/5

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			



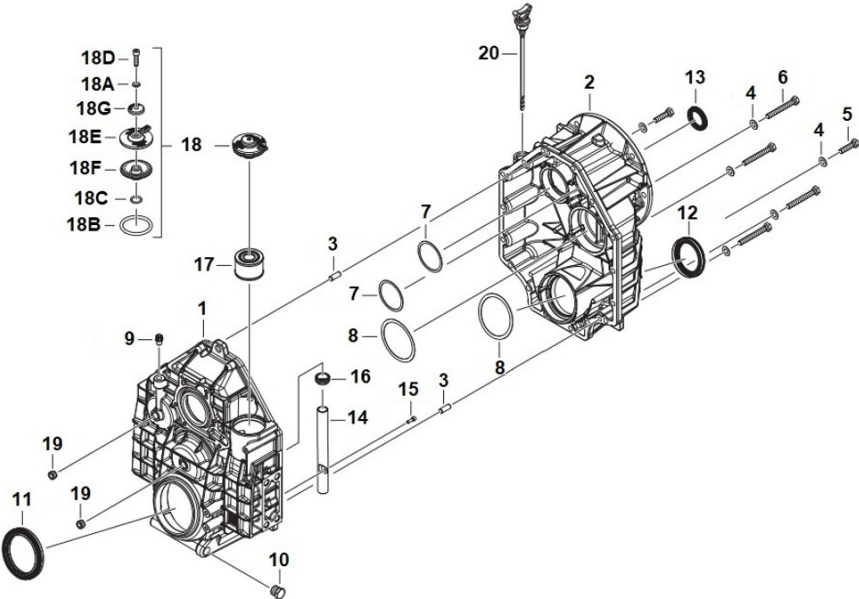
D_ZF68_3 Sheet 3/5

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			



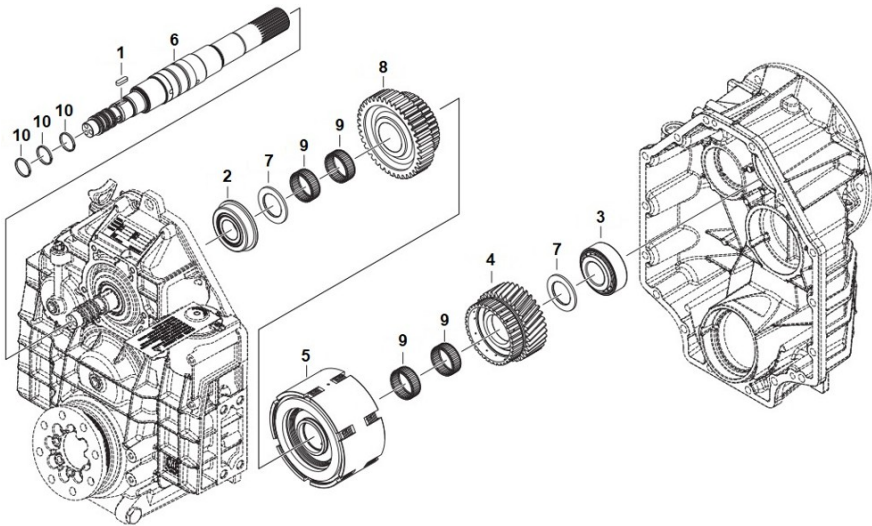
D_ZF68_3 Sheet 3/5

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



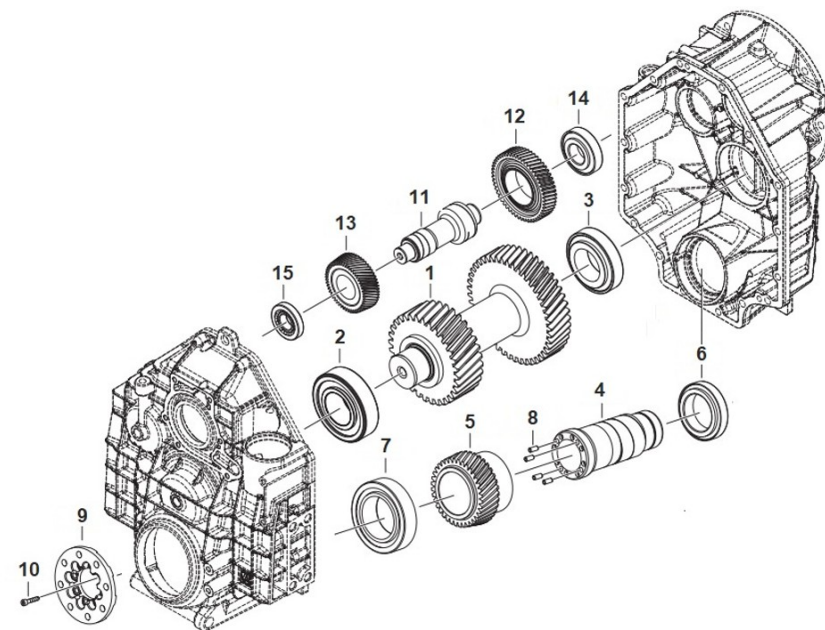
D_ZF68_4 Sheet 4/5

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			



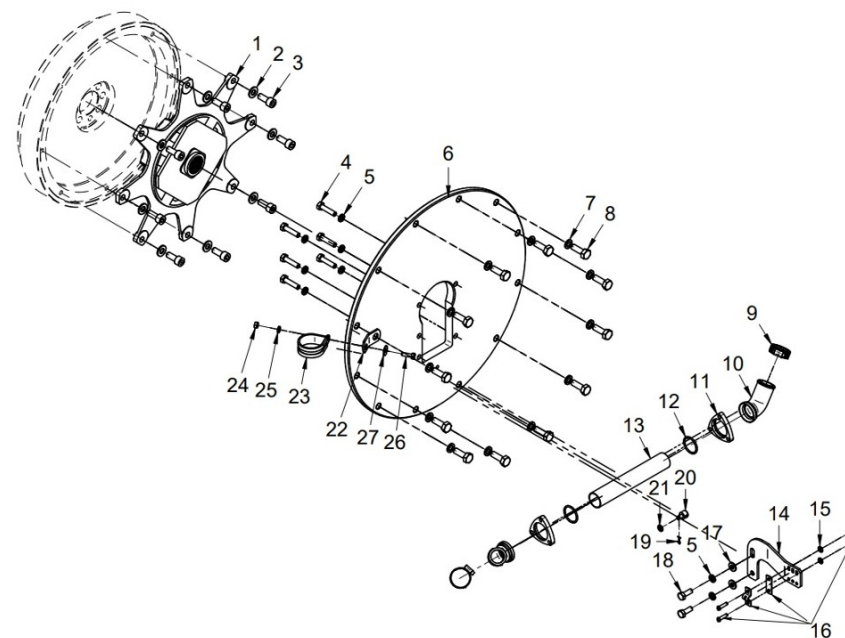
D_ZF68_5 Sheet 5/5

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			



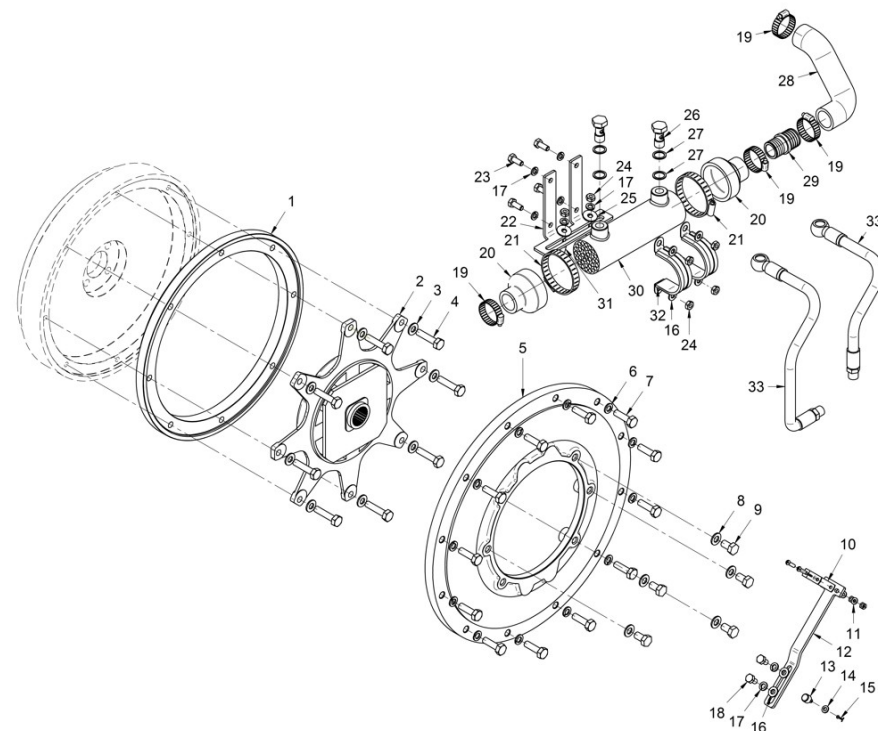
17810227 GearBox TMC-260 Kit SM-82/94

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	16510170	1	Flexible coupling type C SAE 11"1/2			
2	53038010	8	Washer DIN 6798-A 10			
3	52103308	8	Bolt DIN 912 M10-25 8.8			
4	52101260	6	Bolt DIN 931 M8-35 8.8			
5	53033008	8	Washer GROWER DIN 127-8			
6	17410012	1	Adaptor Flange.			
7	53033010	12	Washer GROWER DIN 127-10			
8	52102309	12	Bolt DIN 933 M10-30 8.8			
9	54082025	2	Clamp DIN 3017 25-40/12 W4			
10	24890053	2	Elbow			
11	24890051	2	Cover			
12	24890052	2	O-Ring D. 32X2,5			
13	24890054	1	Cooler Pipe			
14	24880901	1	Bracket, GearBox Control			
15	51030005	3	Washer DIN 125-5			
16	24810913	1	Clamp,CABLE			
17	51030008	2	Washer DIN 125-8			
18	52102257	2	Bolt DIN 933 M8-20 8.8			
19	51051107	1	Pin DIN-94 1,6-16			
20	14719115	1	Coupling,cable			
21	51030006	2	Washer DIN 125-6			
22	13817011	1	Bracket			
23	59071452	2	Clamp 1 42/15 W1			
24	52120006	2	Nut DIN 934 M6 8.8			
25	53033006	2	Washer GROWER DIN 127-6			
26	52102157	2	Bolt DIN 933 M6-20 8.8			
27	51031006	2	Washer DIN 9021 6			
NS	15217010	1	Bracket,wirings			
NS	52102106	1	Bolt DIN 933 M5-15 8.8			
NS	M87503242	2.0	Water Intake Hose (HQ) D. 32-42			

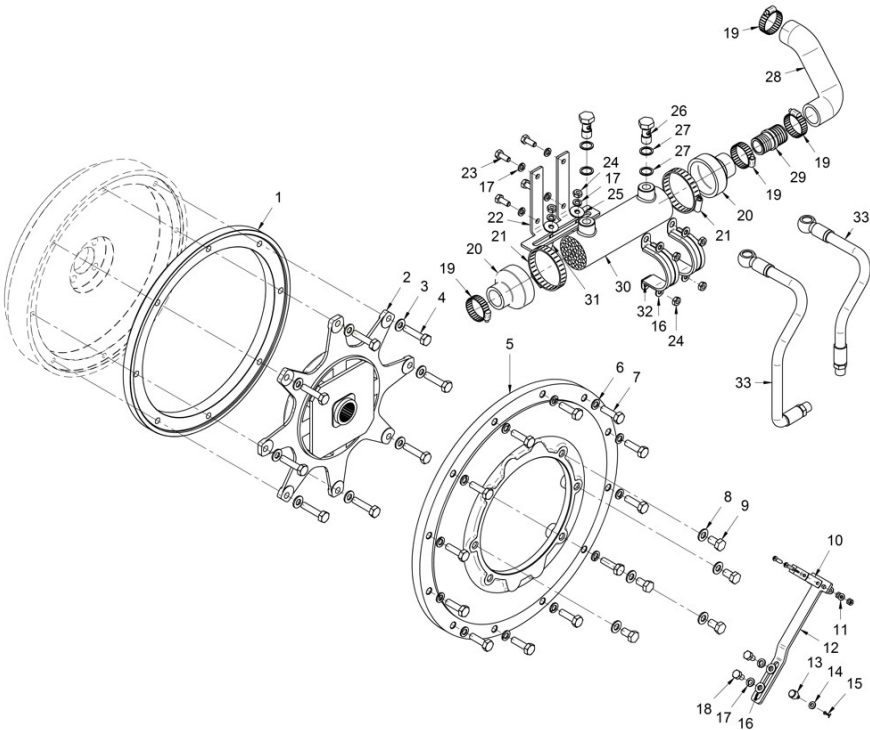


17410210 Kit GearBox TM-345/A

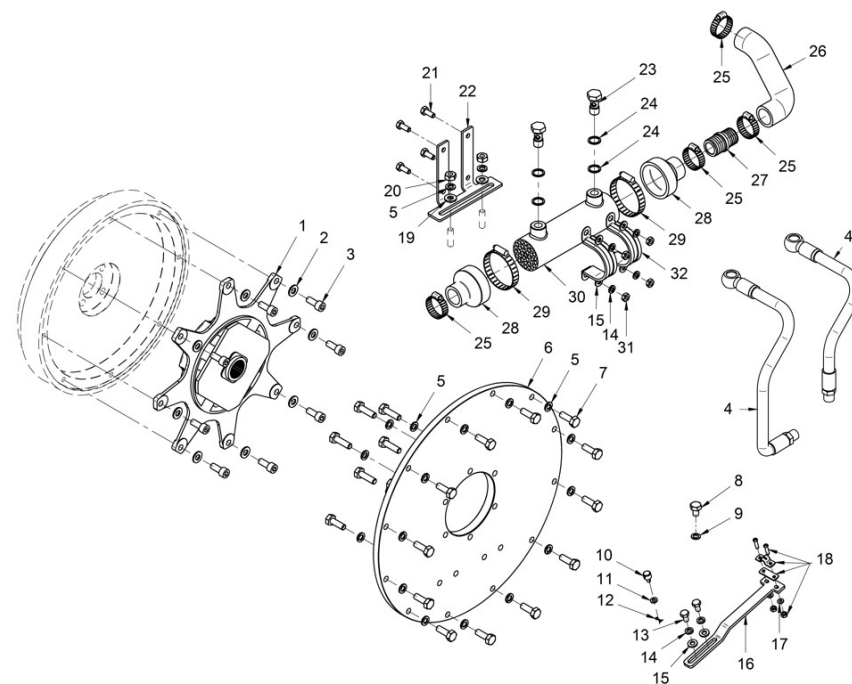
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	17410022	1	Flywheel Supplement			
2	16510170	1	Flexible coupling type C SAE 11"1/2			
3	53038010	8	Washer DIN 6798-A 10			
4	52101312	8	Bolt DIN 931 M10-45 8.8			
5	14910012	1	SAE 3 housing gearbox			
6	53033010	12	Washer GROWER DIN 127-10			
7	52101310	12	Bolt DIN 931 M10-35 8.8			
8	53038012	5	Washer DIN 6798-A 12			
9	52302307	5	Bolt DIN 933 W7/16-20 8.8			
10	24810913	1	Clamp,CABLE			
11	51030005	2	Washer DIN 125-5			
12	18619020	1	Bracket,Gear box control			
13	14719115	1	Coupling,cable			
14	51030006	1	Washer DIN 125-6			
15	51051107	1	Pin DIN-94 1,6-16			
16	51030008	6	Washer DIN 125-8			
17	53033008	8	Washer GROWER DIN 127-8			
18	52102256	2	Bolt DIN 933 M8-16 8.8			
19	54082025	4	Clamp DIN 3017 25-40/12 W4			
20	15312007	2	Water Cooler Cover			
21	54082050	2	Clamp DIN 3017 50-70/12 W4			
22	18012041	1	Bracket,TM93/170 oil cooler			
23	52102257	4	Bolt DIN 933 M8-20 8.8			
24	52120008	6	Nut DIN 934 M8 8.8			
25	51031008	2	Washer DIN 9021 8			
26	14712015	2	Bolt,Coupling pipe oil			
27	59031017	4	Washer			
28	17511009	1	Hose			
29	18011026	1	Pipe			
30	1A012051	1	Cooler,oil			
31	12120018	2	Stud			



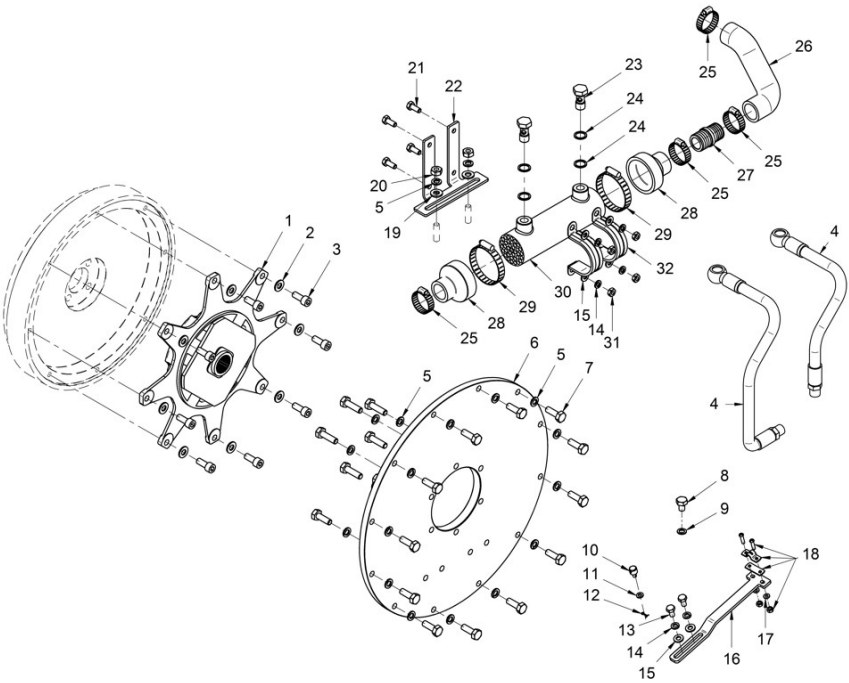
17410210 Kit GearBox TM-345/A					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
32	59072604	2	Clamp		
33	17012024	2	Pipe		



17410200		Kit GearBox TM-93/A				
Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	16510170	1	Flexible coupling type C SAE 11"1/2			
2	53038010	8	Washer DIN 6798-A 10			
3	52103308	8	Bolt DIN 912 M10-25 8.8			
4	17112024	2	Pipe, rev.oil Cooler			
5	53033010	14	Washer GROWER DIN 127-10			
6	24810021	1	SAE 3 housing TM-93/A/170/880A (H=12,5 mm)			
7	52102309	12	Bolt DIN 933 M10-30 8.8			
8	52102306	1	Bolt DIN 933 M10-15 8.8			
9	56000061	1	Washer 10-16-1,5			
10	14719115	1	Coupling,cable			
11	51030006	4	Washer DIN 125-6			
12	51051107	1	Pin DIN-94 1,6-16			
13	52102256	2	Bolt DIN 933 M8-16 8.8			
14	53033008	6	Washer GROWER DIN 127-8			
15	51030008	6	Washer DIN 125-8			
16	18619020	1	Bracket,Gear box control			
17	51030005	2	Washer DIN 125-5			
18	24810913	1	Clamp,CABLE			
19	51030010	2	Washer DIN 125-10			
20	52120010	2	Nut DIN 934 M10 8.8			
21	52102257	4	Bolt DIN 933 M8-20 8.8			
22	13912041	1	Bracket,TM Oil Cooler			20/05/2018
22	18012041	1	Bracket,TM93/170 oil cooler		20/05/2018	
23	14712015	2	Bolt,Coupling pipe oil			
24	59031017	4	Washer			
25	54082025	4	Clamp DIN 3017 25-40/12 W4			
26	17411022	1	Rubber Elbow			
27	18011026	1	Pipe			
28	15312007	2	Water Cooler Cover			
29	54082050	2	Clamp DIN 3017 50-70/12 W4			
30	1A012051	1	Cooler,oil			

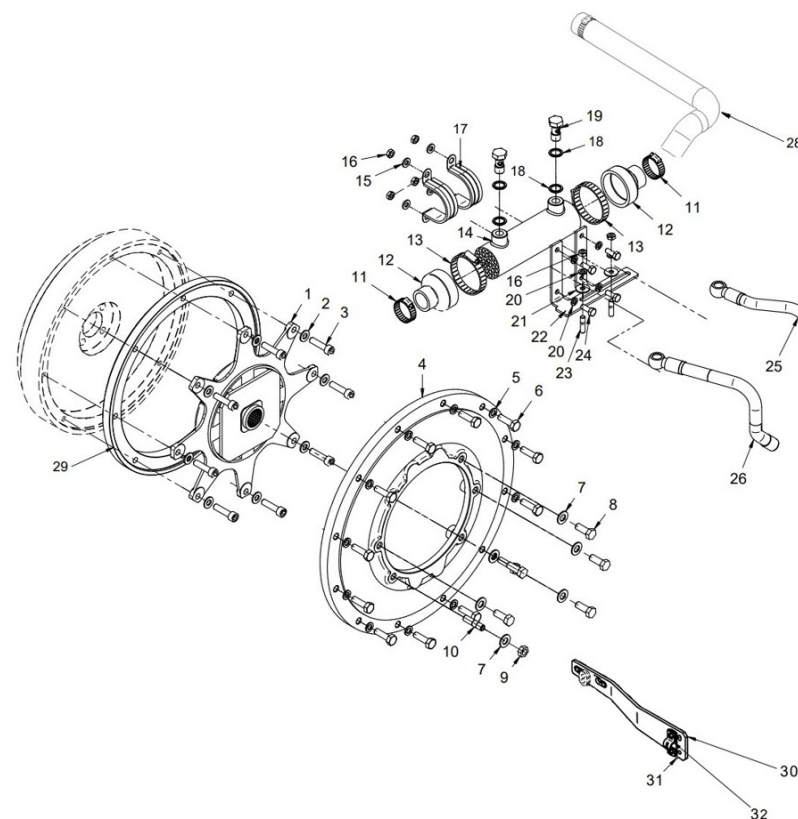


17410200 Kit GearBox TM-93/A					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
31	52120008	4	Nut DIN 934 M8 8.8		
32	59072604	2	Clamp		



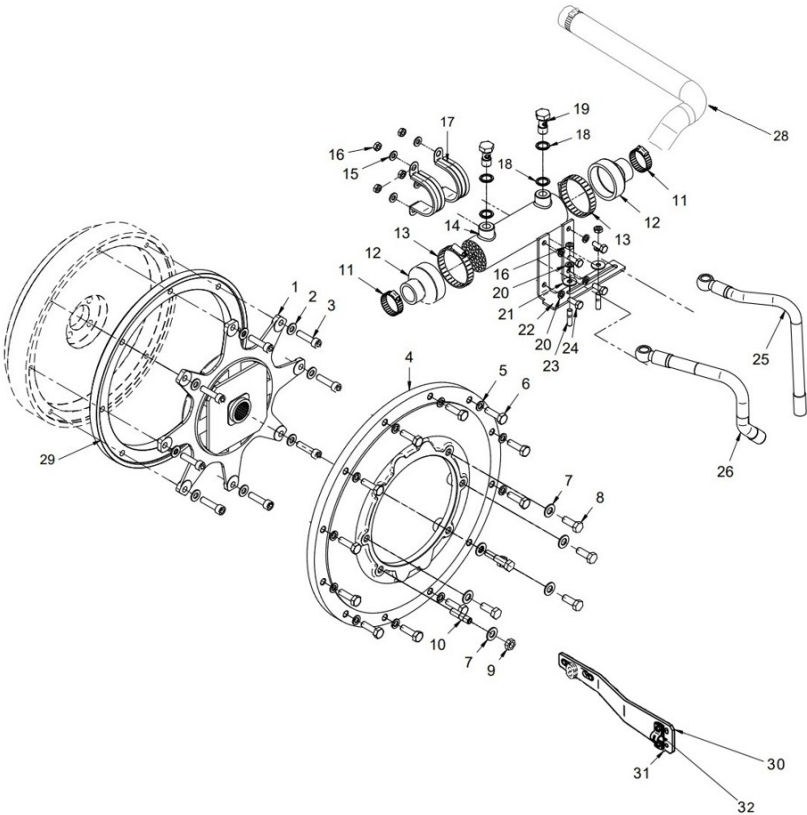
17510224 Kit GearBox TM-485A1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	16510170	1	Flexible coupling type C SAE 11"1/2			
2	53038010	8	Washer DIN 6798-A 10			
3	52103312	8	Bolt DIN 912 M10-45 8.8			
4	14910012	1	SAE 3 housing gearbox			
5	53033010	12	Washer GROWER DIN 127-10			
6	52102310	12	Bolt DIN 933 M10-35 8.8			
7	53038012	6	Washer DIN 6798-A 12			
8	52302309	5	Bolt DIN 933 W7/16-30 8.8			
9	52320716	1	Nut DIN 934 W 7/16 8.8			
10	17510004	1	Stud 7/16Wx44			
11	54082025	4	Clamp DIN 3017 25-40/12 W4			
12	15312007	2	Water Cooler Cover			
13	54082050	2	Clamp DIN 3017 50-70/12 W4			
14	1A012051	1	Cooler,oil			
15	51030008	6	Washer DIN 125-8			
16	52120008	6	Nut DIN 934 M8 8.8			
17	59072604	2	Clamp			
18	59031017	4	Washer			
19	14712015	2	Bolt,Coupling pipe oil			
20	53033008	8	Washer GROWER DIN 127-8			
21	51031008	2	Washer DIN 9021 8			
22	13912041	1	Bracket,TM Oil Cooler		25/06/2017	
22	18012041	1	Bracket,TM93/170 oil cooler			25/06/2017
23	12120018	2	Stud			
24	52102257	6	Bolt DIN 933 M8-20 8.8			
25	17512011	1	Pipe			
26	17512010	1	Pipe			
27	18011026	1	Pipe			
28	1A011035	1	Hose			
29	17410022	1	Flywheel Supplement			
30	24810901	1	Bracket, GearBox Control			



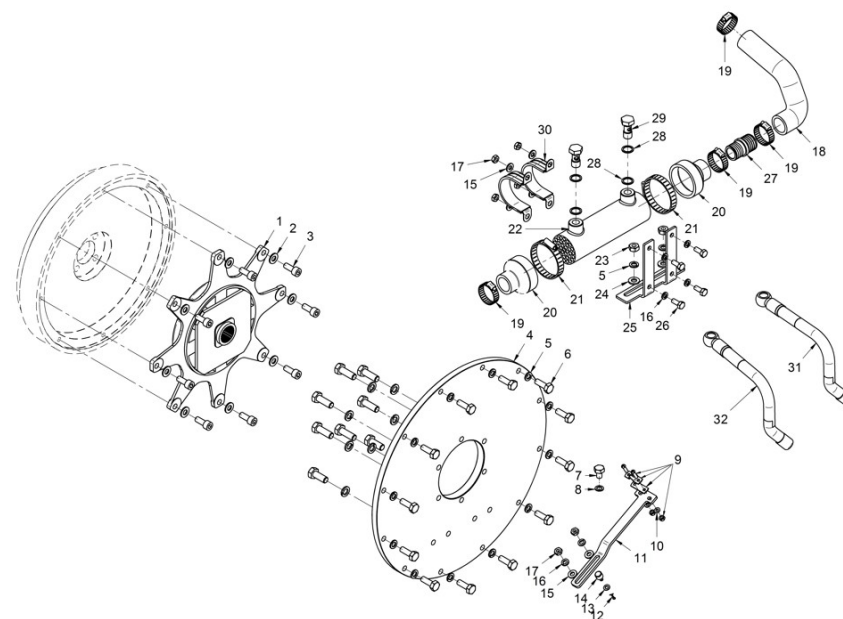
17510224 Kit GearBox TM-485A1

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
31	51030005	2	Washer DIN 125-5			
32	24810913	1	Clamp,CABLE			
NS	13411036	1	Pipe 30-40-120			
NS	51030006	2	Washer DIN 125-6			
NS	51051107	1	Pin DIN-94 1,6-16			

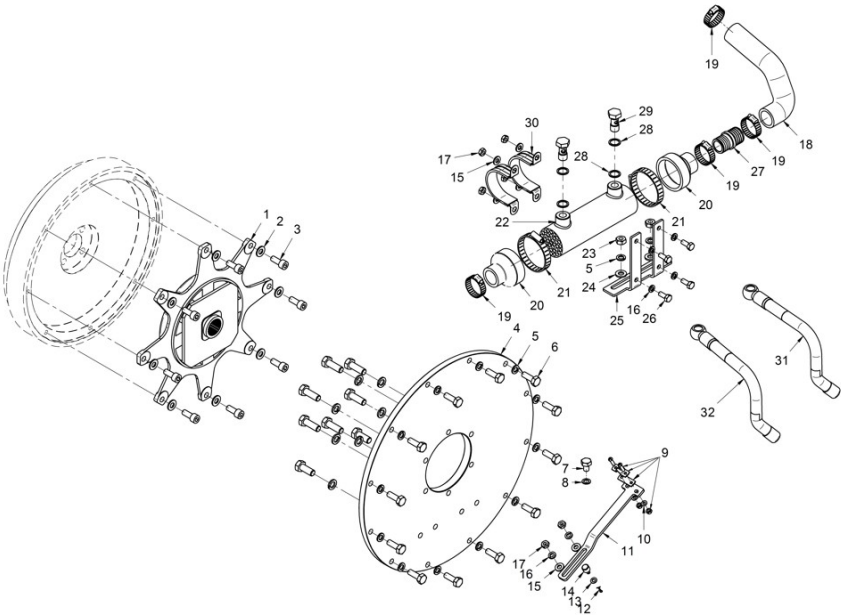


17410215 Kit GearBox TM-170/A/880A

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	16510170	1	Flexible coupling type C SAE 11"1/2			
2	53038010	8	Washer DIN 6798-A 10			
3	52103308	8	Bolt DIN 912 M10-25 8.8			
4	24810021	1	SAE 3 housing TM-93/A/170/880A (H=12,5 mm)			
5	53033010	14	Washer GROWER DIN 127-10			
6	52102309	12	Bolt DIN 933 M10-30 8.8			
7	52102306	1	Bolt DIN 933 M10-15 8.8			
8	56000061	1	Washer 10-16-1,5			
9	24810913	1	Clamp,CABLE			
10	51030005	2	Washer DIN 125-5			
11	18619020	1	Bracket,Gear box control			
12	51051107	1	Pin DIN-94 1,6-16			
13	51030006	3	Washer DIN 125-6			
14	14719115	1	Coupling,cable			
15	51030008	6	Washer DIN 125-8			
16	53033008	6	Washer GROWER DIN 127-8			
17	52120008	6	Nut DIN 934 M8 8.8			
18	17511009	1	Hose			
19	54082025	4	Clamp DIN 3017 25-40/12 W4			
20	15312007	2	Water Cooler Cover			
21	54082050	2	Clamp DIN 3017 50-70/12 W4			
22	1A012051	1	Cooler,oil			
23	52120010	2	Nut DIN 934 M10 8.8			
24	51030010	2	Washer DIN 125-10			
25	13912041	1	Bracket,TM Oil Cooler		25/06/2017	
25	18012041	1	Bracket,TM93/170 oil cooler			25/06/2017
26	52102257	4	Bolt DIN 933 M8-20 8.8			
27	18011026	1	Pipe			
28	59031017	4	Washer			
29	14712015	2	Bolt,Coupling pipe oil			
30	59072604	2	Clamp			

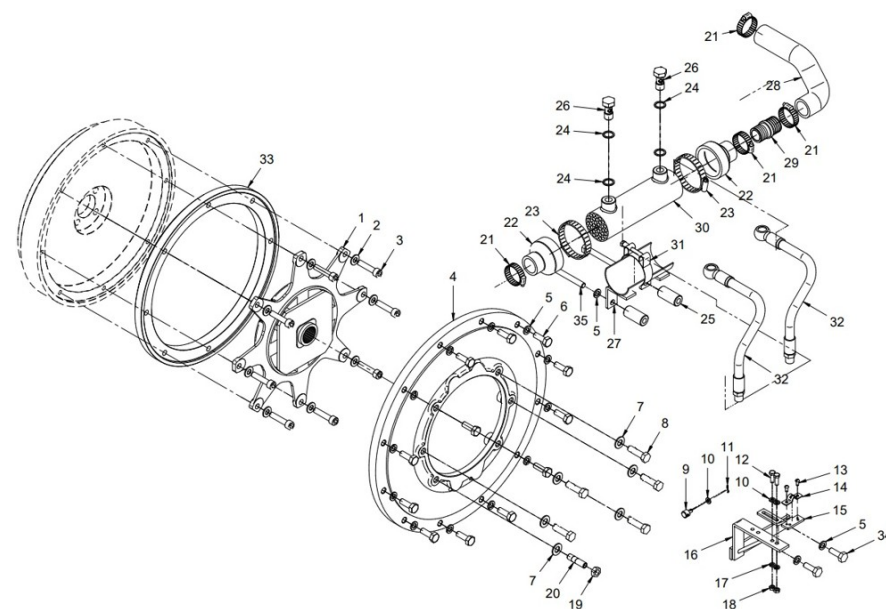


17410215 Kit GearBox TM-170/A/880A					
Fig.	Ref.	Qty.	Descr.	Obs	From UpTo
31	17112024	1	Pipe, rev.oil Cooler		
32	19412017	1	Pipe,rev.oil cooler		



17410255 Kit GearBox ZF 68 IV

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
1	16510170	1	Flexible coupling type C SAE 11"1/2			
2	53038010	8	Washer DIN 6798-A 10			
3	52103312	8	Bolt DIN 912 M10-45 8.8			
4	14910012	1	SAE 3 housing gearbox			
5	53033010	16	Washer GROWER DIN 127-10			
6	52102309	12	Bolt DIN 933 M10-30 8.8			
7	53038012	6	Washer DIN 6798-A 12			
8	52302310	5	Bolt DIN 933 W7/16-35 8.8			
9	14719115	1	Coupling,cable			
10	51030006	6	Washer DIN 125-6			
11	51051107	1	Pin DIN-94 1,6-16			
12	52102157	2	Bolt DIN 933 M6-20 8.8			
13	55307104	2	Bolt DIN 86 W3/16-10			
14	14719013	1	Clamp,cable			
15	12119021	1	SUPORT Clamp			
16	16519020	1	Bracket, Gear box control			
17	53033006	2	Washer GROWER DIN 127-6			
18	52120006	2	Nut DIN 934 M6 8.8			
19	52320716	1	Nut DIN 934 W 7/16 8.8			
20	17510004	1	Stud 7/16Wx44			
21	54082025	4	Clamp DIN 3017 25-40/12 W4			
22	15312007	2	Water Cooler Cover			
23	54082050	2	Clamp DIN 3017 50-70/12 W4			
24	59031017	4	Washer			
25	17017102	2	Spacer 10,5X22X46			
26	14712015	2	Bolt,Coupling pipe oil			
27	16512010	1	Bracket,oil cooler			
28	17511009	1	Hose			
29	18011026	1	Pipe			
30	1A012051	1	Cooler,oil			
31	51083060	1	GP Clamp 59-63 W2			



17410255 Kit GearBox ZF 68 IV

Fig.	Ref.	Qty.	Descr.	Obs	From	UpTo
32	18512024	2	Pipe			
33	17410022	1	Flywheel Supplement			
34	52302258	2	Bolt DIN 933 W3/8-25 8.8			
35	52101319	2	Bolt DIN 931 M10-80 8.8			

