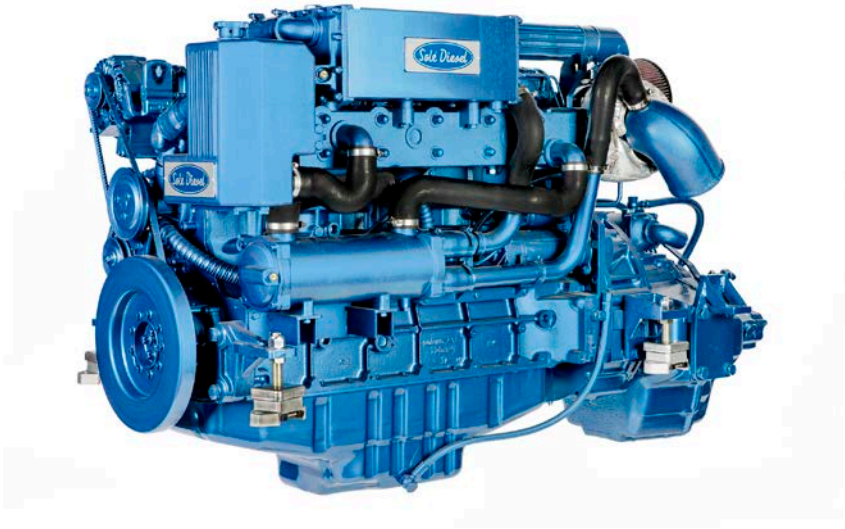
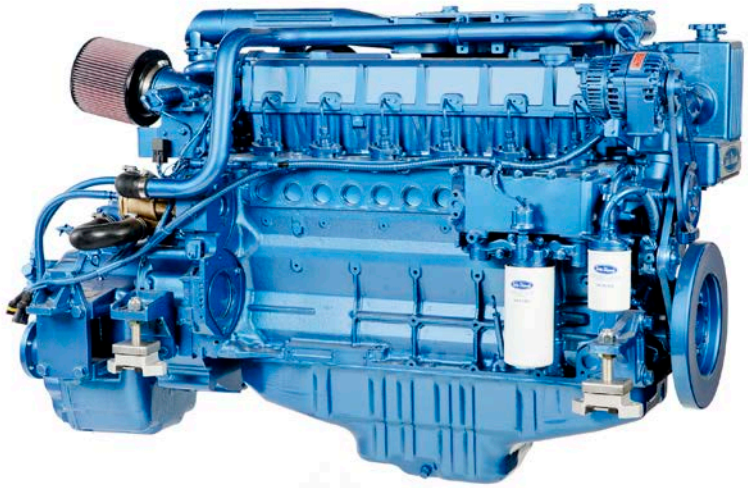
Engine SDZ-280

VERSION 2015-10

SPARE PARTS MANUAL





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 FAX or 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 adressed to:

recambios@solediesel.com

Telf.: +34 93 775 44 05

Fax: +34 93 775 30 13

The components shown in the catalog have:

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

Hoses, indicates the total length in meters

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

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

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

SOLÉ, S.A.

C-243b, Km, 2 - P.O. BOX 15

08760 Martorell (Barcelona) Spain

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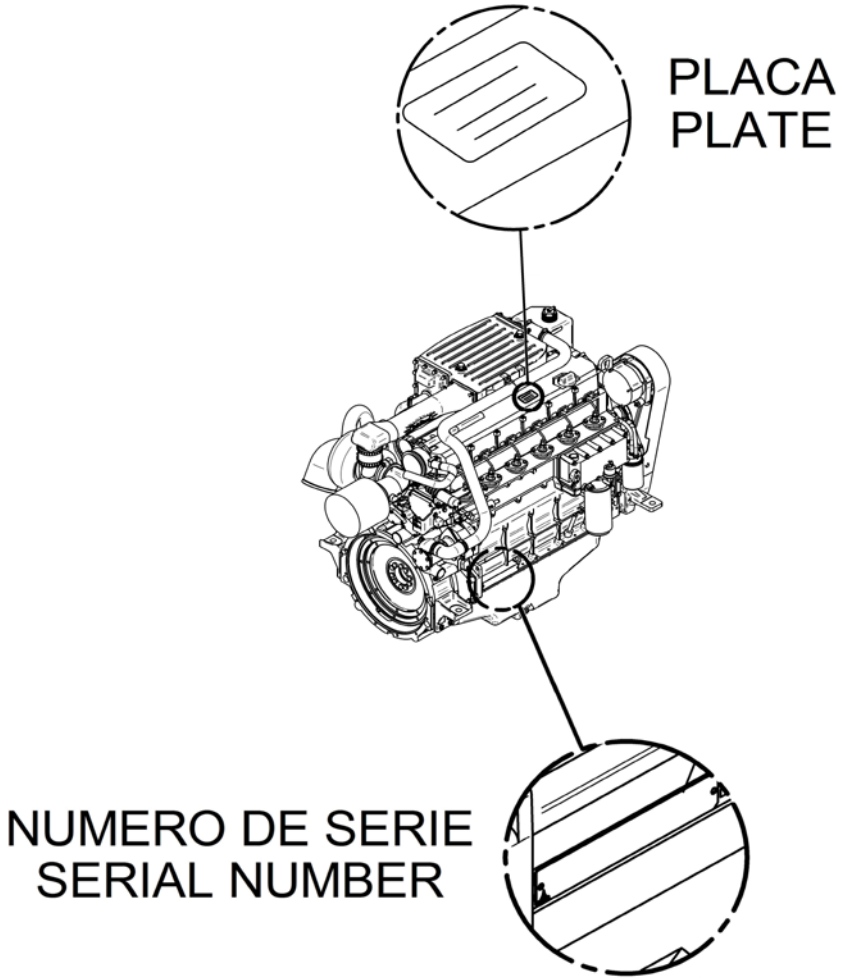

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V-Front Pulley 3B
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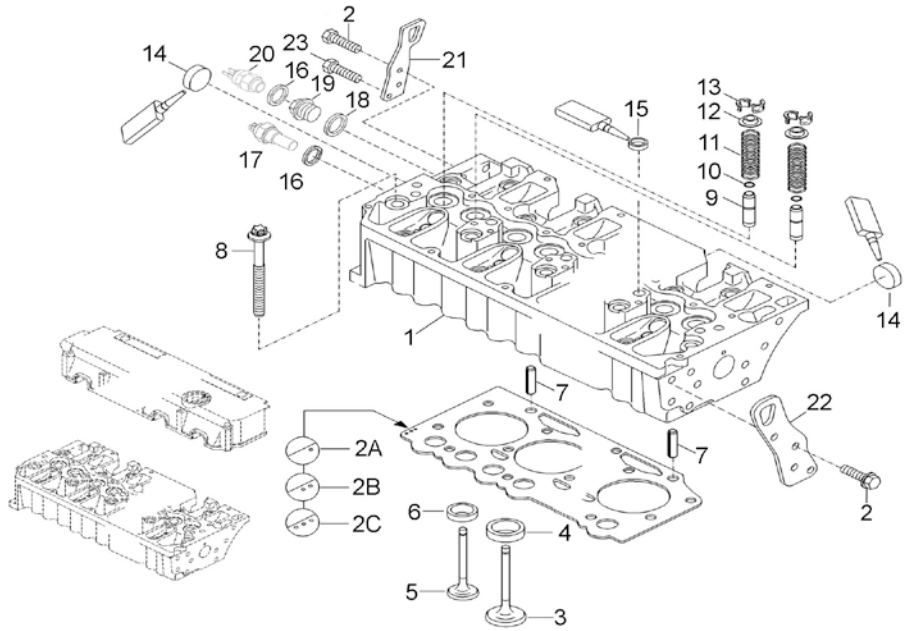
Kit Power Take-off Shaft D40 & Pulley 3B

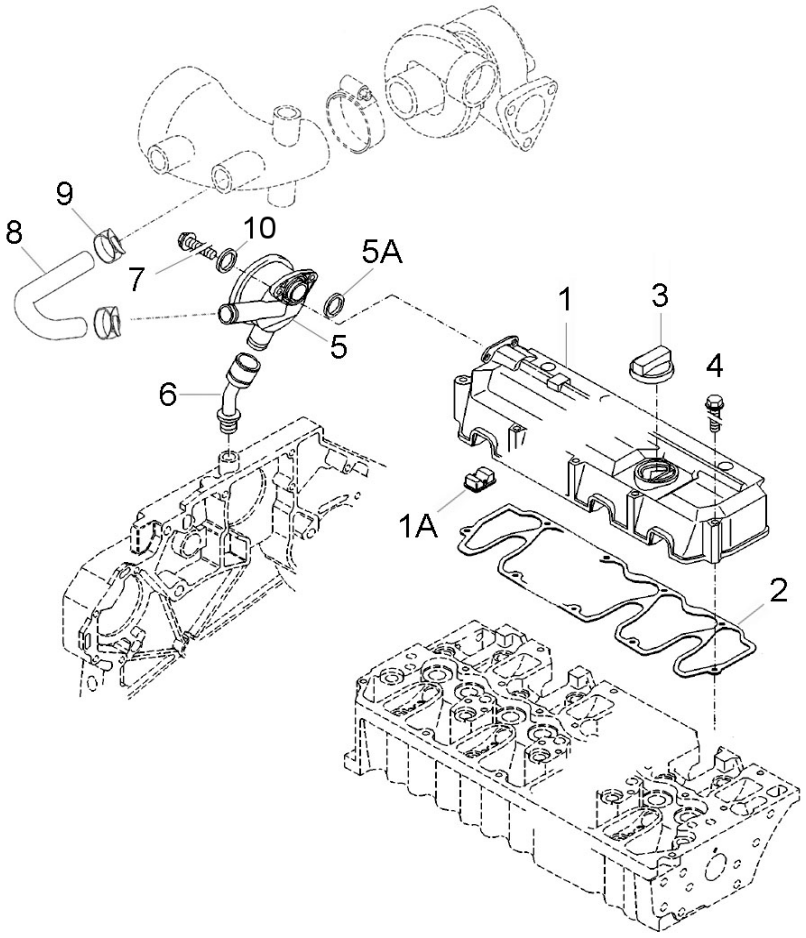
Kit PTO Deutz
Kit Power Take-off Hidr.Pump Max. 50 KW

D_SD28_1_1			Cylinder Head
FIG.	**REF.**	**QTY**	**DESCR.**
1	19621001	1	Cylinder Head
2A	19521004	1	Cylind.Head Gasket
2B	19521004.1	1	Cylind.Head Gasket
2C	19521004.2	1	Cylind.Head Gasket
4A	19421061	6	Valve Seat INSERT
4B	19421061.1	6	OverSIZE Valve Seat INSERT - 1ST
4C	19421061.2	6	OverSIZE Valve Seat INSERT - 2nd
6A	19421062	6	Valve Seat INSERT
6B	19421062.1	6	OverSIZE Valve Seat INSERT - 1A
6C	19421062.2	6	OverSIZE Valve Seat INSERT - 2nd
7	19421007	2	ClampING Bush
8	19421005	26	Bolt,cylinder head
9A	19421002A	12	Valve Guide
9B	19421002.1	12	OverSIZE Valve Guide - 1ST
9C	19421002.2	12	OverSIZE Valve Guide - 2nd
10	19422054	12	O-Ring
11	19422057	12	COMPRESSION Spring
12	19422058	12	VALV.Spring RETAIN
14	19420011	5	Plug
15	19421008	5	CORE Hole Plug
16	56000069	2	Washer 14-20-1,5
17	60900988	1	Temperature Sensor
18	19421016	1	SealING Ring
19	19417003	1	Plug
20	60994070	1	THERMO-SWITCH 110º
21	19610020	1	Bracket
22	19420081	1	SUSPENSING Plate
23	52102309	1	Bolt DIN 933 M10-30 8.8
24	19420079	2	Screw
NS	19421017	1	SAFETY/LOCK.AGENT [NS]

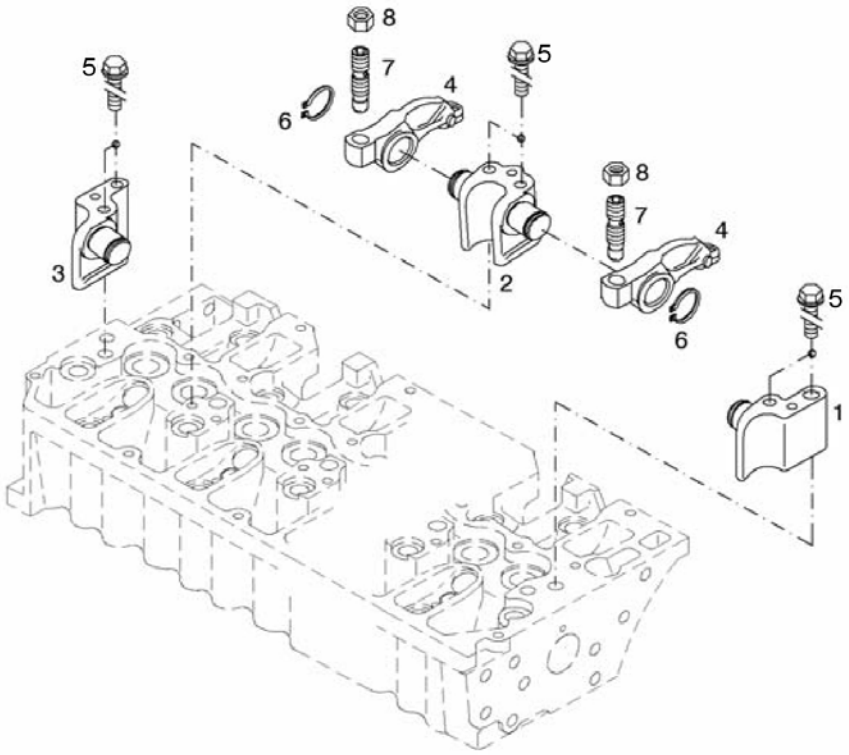


[NS] Not shown

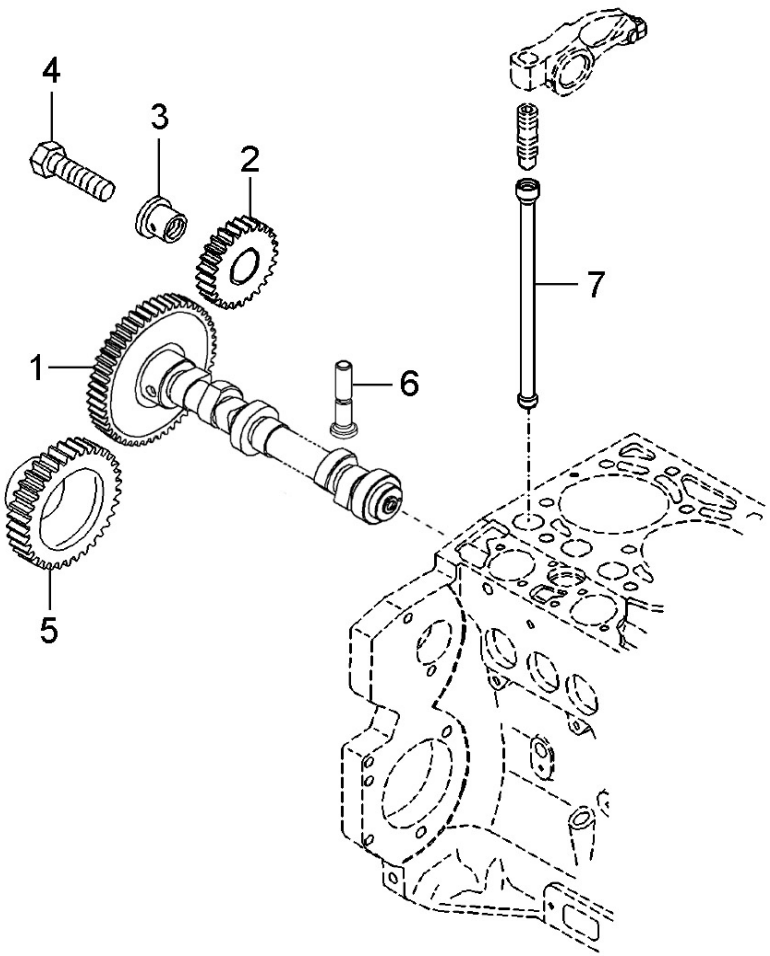
D_SD28_1_2			Rocker Cover & Breather
FIG.	**REF.**	**QTY**	**DESCR.**
1	19421057.1	1	Hose DESAirA
1A	19521011	1	Cap
3	19421003	1	FILLER Cap
4	19421012	13	HEXAGON Bolt
5	19521051	1	Pressure REGULATO
5A	19521052	1	Gasket
6	19621054	1	RUBBER SLEEVE
7	19621053	2	BOLT
9	19421056	2	Hose Clip
10	19621056	2	WASHER



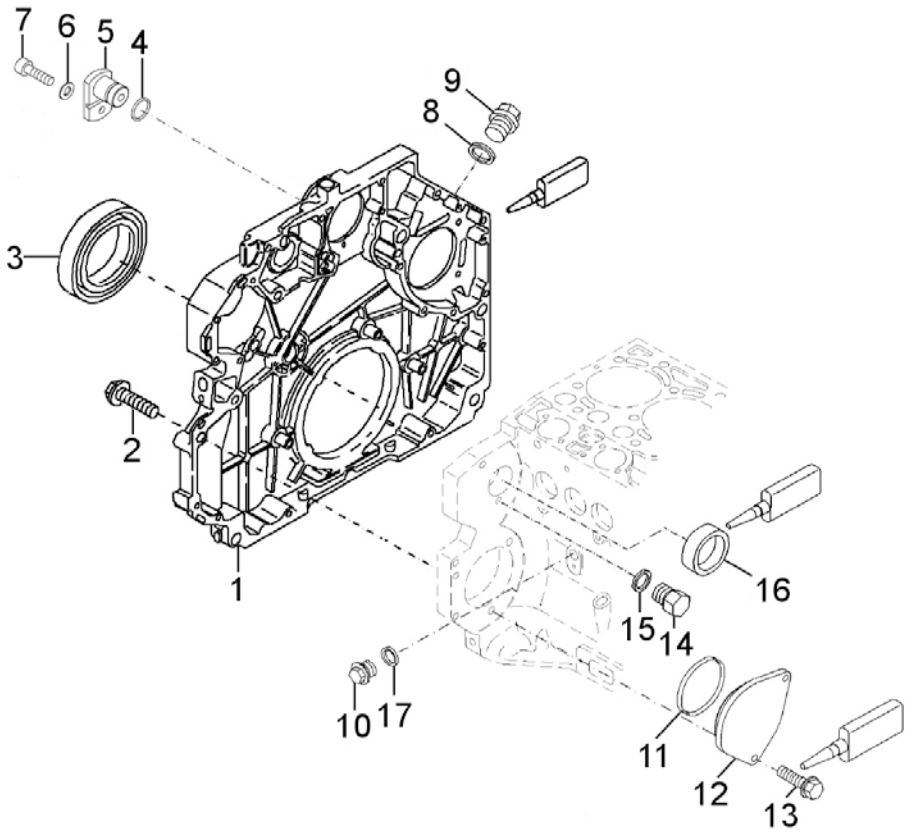
D_SD28_1_3			Valve Drive
FIG.	**REF.**	**QTY**	**DESCR.**
1	19422045	1	Rocker ARM Bracket
2	19422045.1	5	Rocker ARM Bracket
3	19422045.2	1	Rocker ARM Bracket
4	19422042	12	Rocker ARM
5	19422053	26	HEXAGON Bolt
6	19422047	12	CIRClip
7	19622044	12	Screw Adjusting
8	19422052	12	Nut



D_SD28_1_4			Timing Parts
FIG.	**REF.**	**QTY**	**DESCR.**
1	19522035	1	CamShaft
2	19422065	1	TOOTHED Gear
3	19422067	1	THREADED PIECE
4	19422066	1	HEXAGON Bolt
5	19421124	1	TOOTHED Gear
6	19422061	12	Tappet
7	19422041	12	PUSHROD



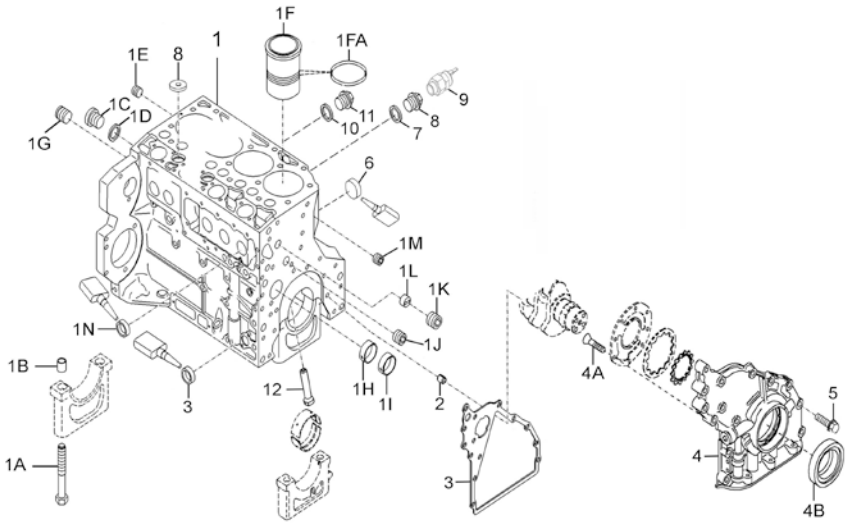
D_SD28_1_5			Gear Case
FIG.	REF.	QTY	DESCR.
1	19420055.1	1	GearCase
2	19420027	12	Screw
3	19420039.1	1	ROT.Shaft LIP Seal
4	19420200	1	O-Ring
5	19420188	1	Plug
6	19420201	1	Plain Washer
7	19420187	1	Bolt
8	19421116	1	SeallNG Ring
9	19421020	1	Screw Plug
10	19420071	1	Screw Plug
11	19420226	1	O-Ring D. 100X4
12	19420225	1	Cover
13	19420227	2	HEXAGON Bolt
14	19421023	2	Screw Plug
15	19424087	2	SeallNG Ring
16	19421024	1	Core Hole Plug
17	19421016	1	SeallNG Ring
NS	19420013	1	SAFETY/LOCK.AGENT [NS]



[NS] Not shown

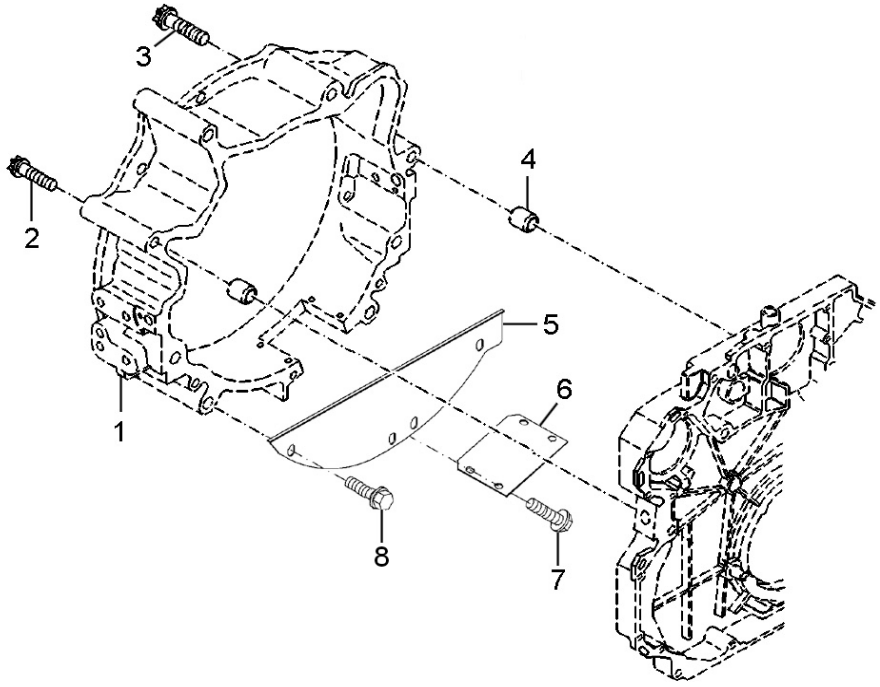
Engine Body

D_SD28_1_6			Cranckcase
FIG.	**REF.**	**QTY**	**DESCR.**
1	19620001.1	1	CRANKCASE
1A	19420061	14	Screw
1B	19420062	14	Bush
1C	19420063	2	Screw Plug
1D	19420064	4	SealING Ring
1F	19620050.1	6	Cylinder LINER
1FA	19420074	2	O-Ring D. 115X3
1G	19420073.1	1	Screw Plug
1H	19420069	1	Bearing Bush
1I	19420068	6	Bearing Bush
1J	19420066	1	Screw Plug
1K	19420065	1	Screw Plug
1L	19420072	1	Guide SLEEVE
1LA	19520072	1	Guide SLEEVE
1M	19420067.1	2	Screw Plug
1N	19420070.1	10	CORE Hole Plug
2	19420028	1	ClampING Bush
3	19420026	1	Gasket
4	19520025	1	Front Cover
4A	19420009	8	Screw
4B	19420008	1	ROT.Shaft LIP Seal
5	19420027	14	Screw
6	19420180	1	CORE Hole Plug
7	56000069	1	Washer 14-20-1,5
8	19417001	1	Plug
9	60900076	1	Switch, oil press
10	19420215	1	Plug
11	19420071	2	Screw Plug
12	19420034	6	Piston COOL.Nozzle
NS	19420013	1	SAFETY/LOCK.AGENT [NS]

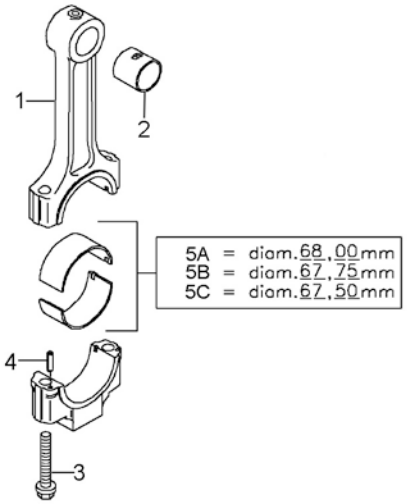


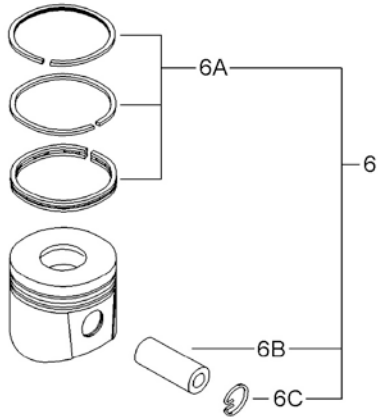
[NS] Not shown

D_SD28_1_7			Flywheel Housing
FIG.	**REF.**	**QTY**	**DESCR.**
1	19420211	1	Connection Housing
2	19420203	2	Bolt
3	19420204	4	Bolt
4	19420210G	2	Bush
5	19420213	1	Cover
6	19420205	2	Cover
7	19420206	4	HEXAGON Bolt
8	19428054	7	Screw

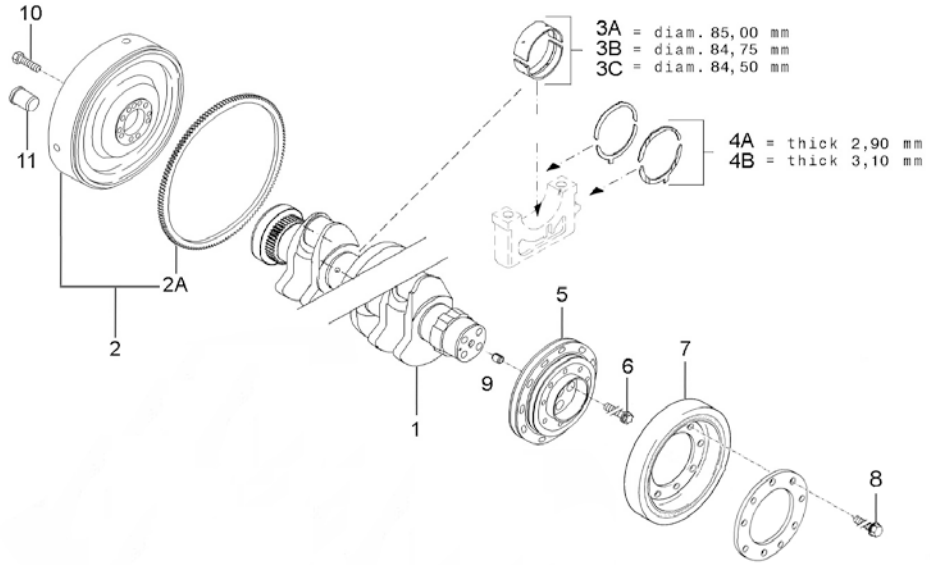


D_SD28_1_8			Piston & Connectiong Rod
FIG.	**REF.**	**QTY**	**DESCR.**
1	19422012	6	Connecting Rod
2	19422033	6	BIG END Bush
3	19422013	12	Bolt,connecting rod
4	19422009	12	ClampING Bush
5A	19622014.1	6	BIG END Bearing
5B	19622015.1	6	BIG END Bearing
5C	19622016.1	6	BIG END Bearing
6	19622001	6	Piston
6A	19422006G	6	Set OF PIST. RingS
6B	19422011.1	12	Piston Pin
6C	19422010	12	CIRClip

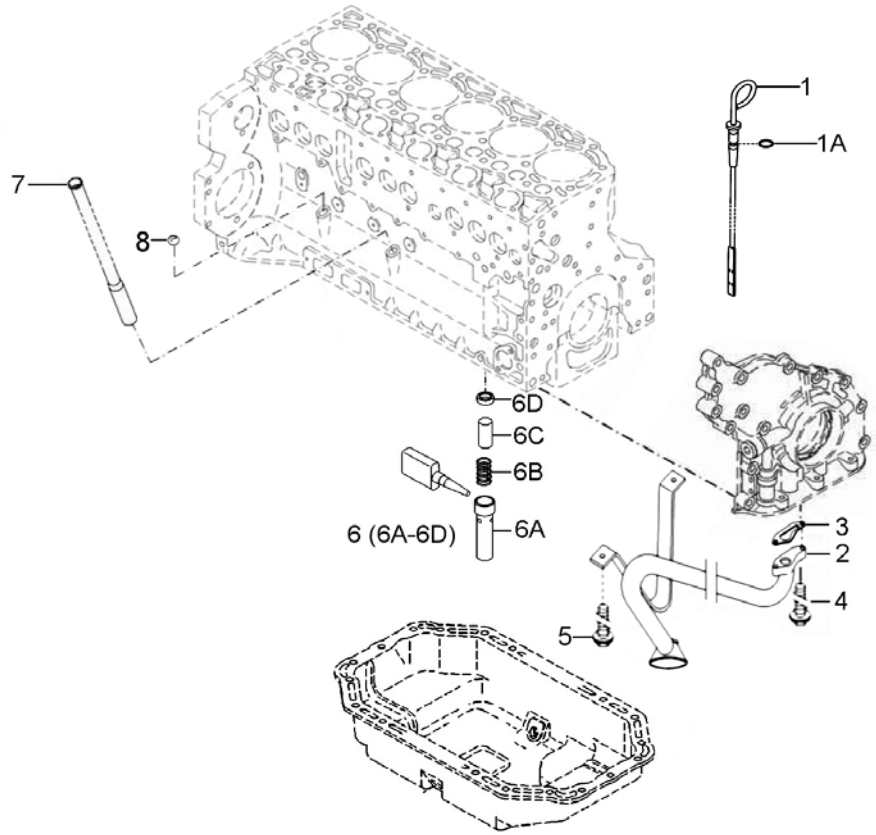




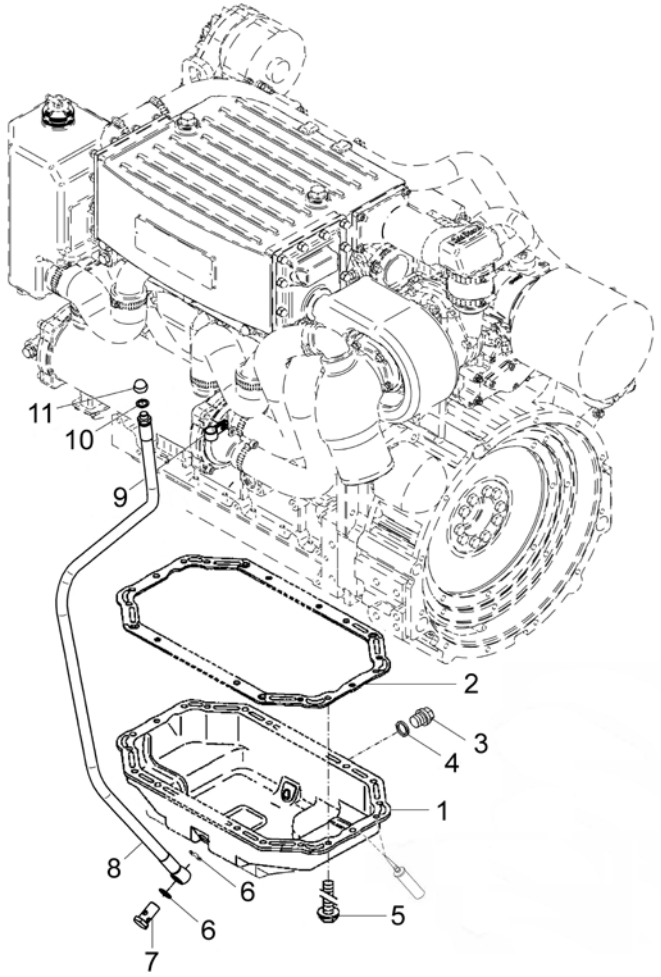
D_SD28_1_9			Crankshaft & Flywheel
FIG.	**REF.**	**QTY**	**DESCR.**
1	19522018	1	CrankShaft
2	19422027	1	Flywheel
2A	19422029	1	Gear RIM
3A	19420003	7	Bearing Set STD.
3B	19420004	1	Bearing Set + 0,25
3C	19420005	1	Bearing Set + 0,50
4A	19420109	2	THRUST Washer
4B	19420105	2	THRUST Washer
6	19422040	4	Bolt
7	19522034	1	Damper
8	19622026.1	9	BOLT
9	19422036	1	ClampING Bush
10	19422031	10	HEXAGON Bolt
11	19422037	5	Plug
12	19622026.2	1	WASHER



D_SD28_1_10			Oil Sysem
FIG.	**REF.**	**QTY**	**DESCR.**
1	19620029.1	1	Gauge Oil LEVEL
1A	19620029.2	1	O-Ring
2	19624052	1	Oil SUCTION Pipe
3	19424056.1	1	Gasket
4	19424006	2	HEXAGON Bolt
5	19420036	2	Screw
6	19420040	1	Valve Assy
6A	19420043	1	SLEEVE
6B	19420041	1	COMPRESSION Spring
6C	19420042	1	Valve Plunger
6D	19420044	1	Ring
7	19620027	1	GUIDE TUBE
8	19620028	1	BALL

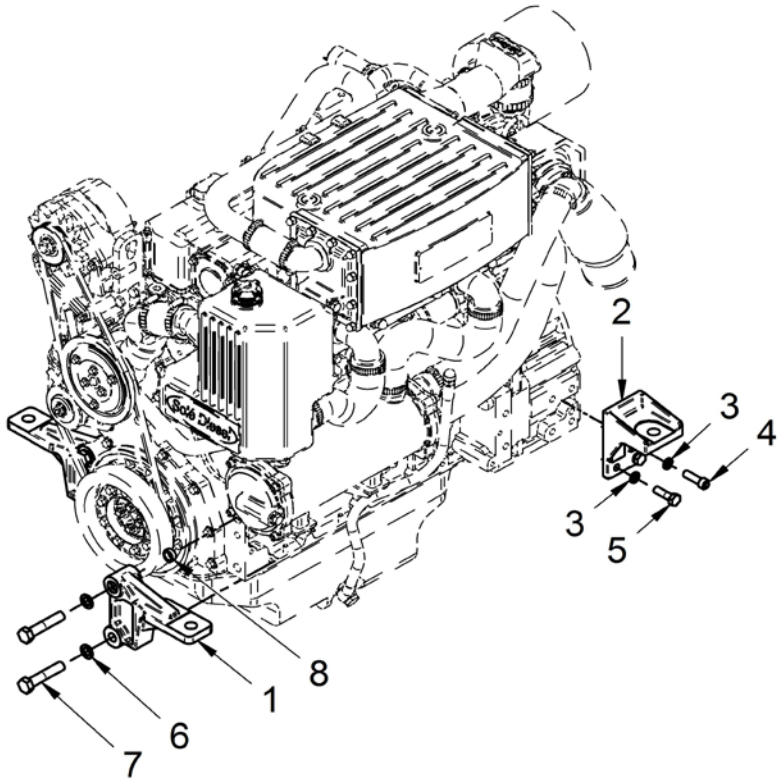


D_SD28_1_11			Oil Pan
FIG.	REF.	QTY	DESCR.
1	19520030	1	Oil PAN
2	19520033	1	Gasket
3	19420031	2	Plug
4	19420032.1	3	Gasket
5	19420036	34	Screw
6	56000077	2	Washer 18-23-1,5
7	16514022	1	Coupling,screw
8	16514021	1	ExtraCTION Hose
9	18014022	1	Bracket,pipe
10	56000069	2	Washer 14-20-1,5
11	16514020	1	Plug
NS	19420035	1	SAFETY/LOCK.AGENT [NS]

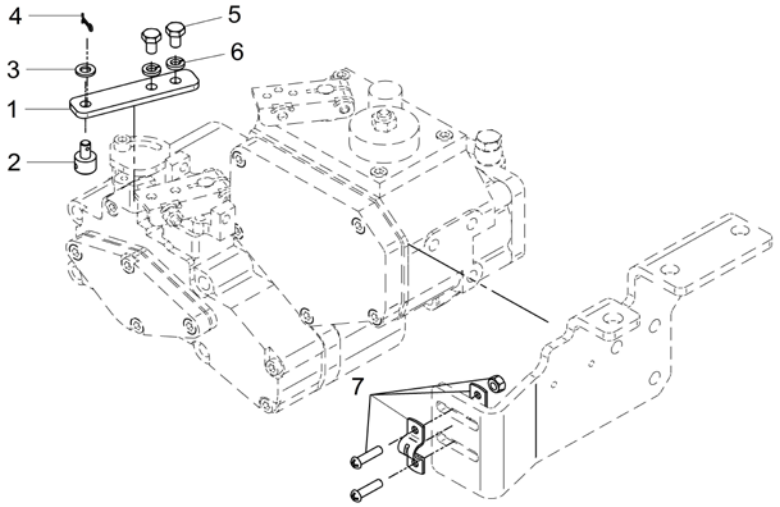


[NS] Not shown

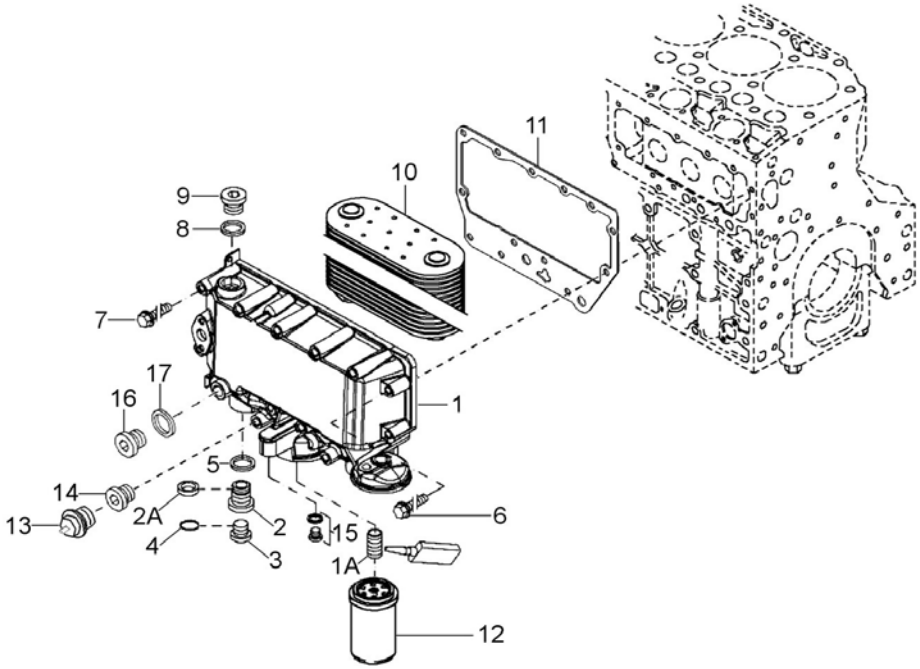
D_SD17_1_12			Engine Brackets
FIG.	**REF.**	**QTY**	**DESCR.**
1	19410001	2	Bracket,Front
2	19410002	2	Bracket,REAR
3	53033012	8	Washer GROWER DIN 127-12
4	53103361	4	Bolt DIN 912 M12-40 12.9
5	53101361	4	Bolt DIN 931 M12-40 12.9
6	53033016C	4	Washer
7	53101469	4	Bolt DIN 931 M16-80 12.9
8	19410004	2	Bushing



D_SD17_1_13			Bracket, Engine Control
FIG.	**REF.**	**QTY**	**DESCR.**
1	19419002	1	Lever Morse
2	14719115	1	Coupling,cable
3	51030006	1	Washer DIN 125-6
4	51051107	1	Pin DIN-94 1,6-16
5	52102154	2	Bolt DIN 933 M6-10 8.8
6	53033006	2	Washer GROWER DIN 127-6
7	24810913	1	Clamp,CABLE



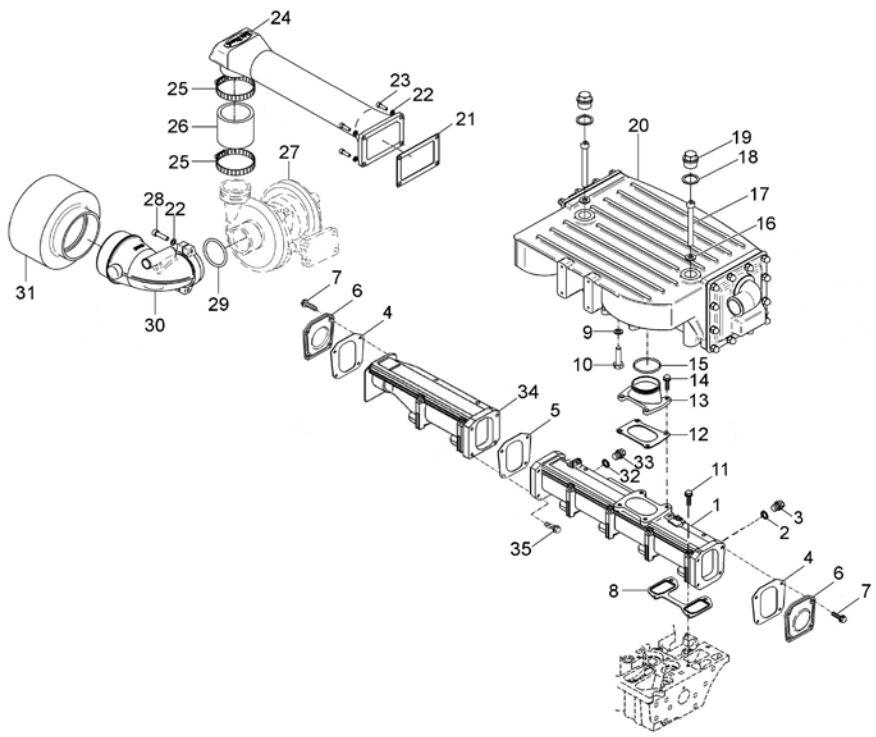
D_SD28_1_14			Oil Cooler
FIG.	**REF.**	**QTY**	**DESCR.**
1	19422110.1	1	Oil Cooler Box
1A	19422114	1	Bush
2	19422111	1	COLLAR Screw
2A	19422115	1	SeallNG Ring
3	19422112	1	Plug
4	19422113	1	O-Ring
5	19422118	1	SeallNG Ring
6	19422120	3	HEXAGON Bolt
7	19422124	10	HEXAGON Bolt
8	19421019	1	SeallNG Ring
11	19424084	1	Gasket
13	19424051	1	Filter,Oil
14	19417001	2	Plug
15	60900985	1	Pressure Sensor
16	19424088	1	Screw Plug
17	19424081	1	Screw Plug
18	19424082	1	SeallNG Ring
NS	19420045	1	SAFETY/LOCK.AGENT [NS]



[NS] Not shown

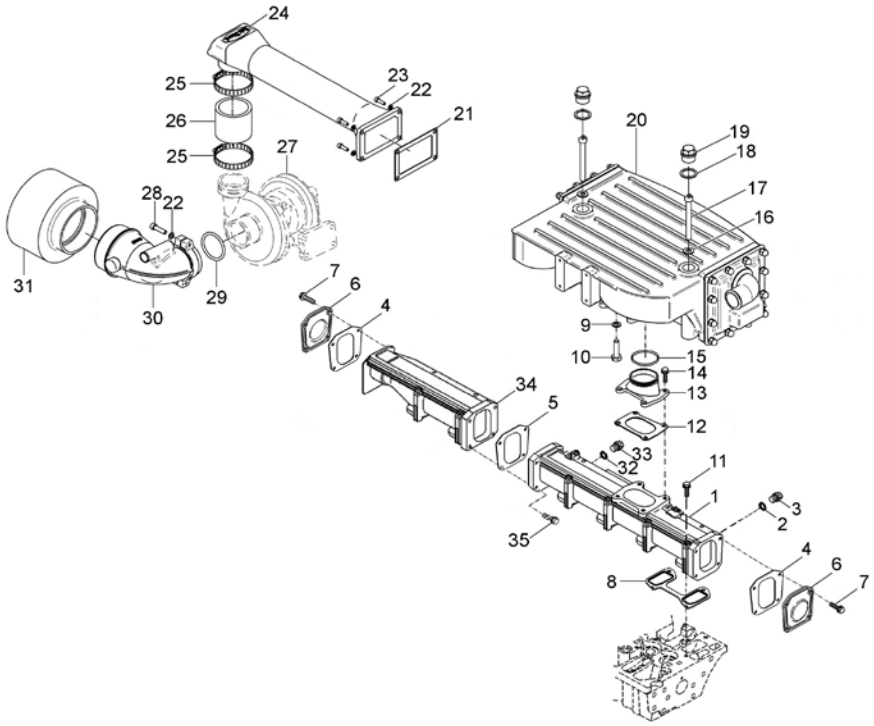
Inlet & Exhaust

D_SD28_2_1			Inlet
FIG.	**REF.**	**QTY**	**DESCR.**
1	19421080	1	CHARGE Air Pipe
2	19420059G	1	SealING Ring
3	19420063	1	Screw Plug
4	19421049	2	Gasket
5	19421047	1	Gasket
6	19621045	2	Cover
7	19422122	8	HEXAGON Bolt
8	19421063	3	Gasket
9	53033008	2	Washer GROWER DIN 127-8
10	52101312	2	Bolt DIN 931 M10-45 8.8
11	19421012	12	HEXAGON Bolt
12	19421034	1	Gasket
13	19410014	1	Adaptor
14A	52103158	4	Bolt DIN 912 M6-25 8.8
14B	51030006	4	Washer DIN 125-6
15	19421033	1	O-Ring D. 70X5 VITON
16	56000061	2	Washer 10-16-1,5
17	52103322	2	Bolt DIN 912 M10-95 8.8
18	56000093	2	Washer 26-34-1,5
19	51218759	2	Bolt DIN 910 M26X1.5
20	19410016B	1	Air Cooler, Assy
21	19410018	1	Gasket
22	53038008	6	Washer DIN 6798-A 8
23	52103257	4	Bolt DIN 912 M8-20 8.8
24	19610017	1	TURBOCHARGER, Adaptor
25	54082070	2	Clamp DIN 3017 70-90/12 W4
26	19610014	1	Hose
27	D_SD17_2_3	1	Spare Parts, Turbocharger [NP]
28	52103259	2	Bolt DIN 912 M8-30 8.8
29	19610021	1	O-Ring D. 90X4 VITON
30	19610015	1	Bracket, Air Filter
31	19410013	1	Air Filter
32	19424087	1	SealING Ring
33	19424086	1	Screw Plug
34	19521081	1	CHARGE Air Pipe

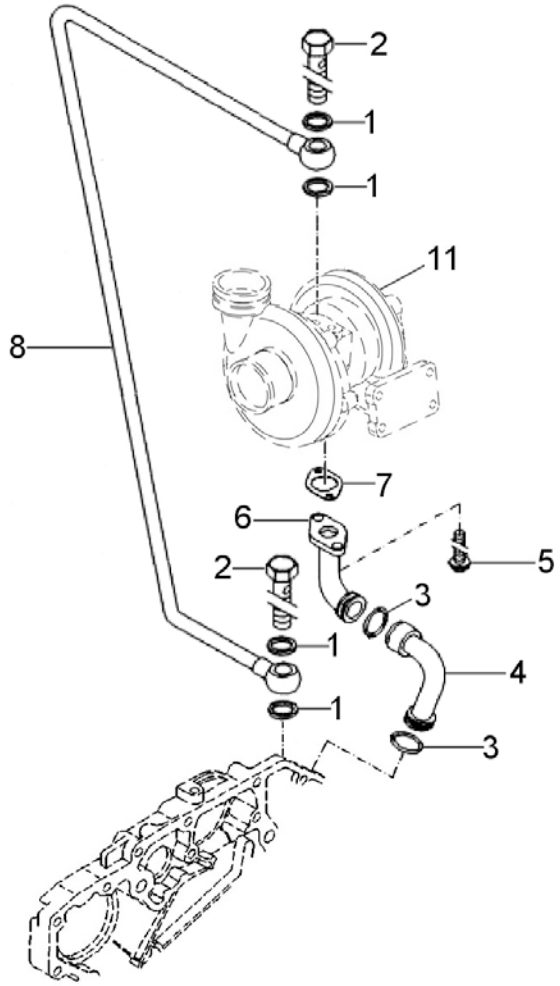


[NP] Not provided
[NS] Not shown

D_SD28_2_1			Inlet
FIG.	**REF.**	**QTY**	**DESCR.**
35	19521046	4	Screw
NS	17111060	1	Plate "SOLE Diesel" [NS]
NS	17111062	2	Bolt [NS]

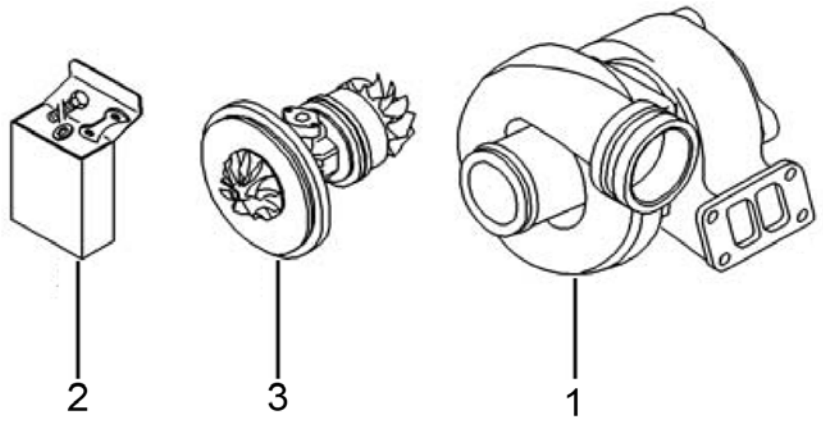


D_SD28_2_2			Turbocharger
FIG.	REF.	QTY	DESCR.
1	19421016	4	SeallNG Ring
2	19424066	2	Screw
3	19428063	2	SeallNG Ring
5	19420163	2	Screw
6	19628011	1	Plug-in Flange
7	19428062	1	Gasket
NS	19420113	1	LUBRICANT [NS]

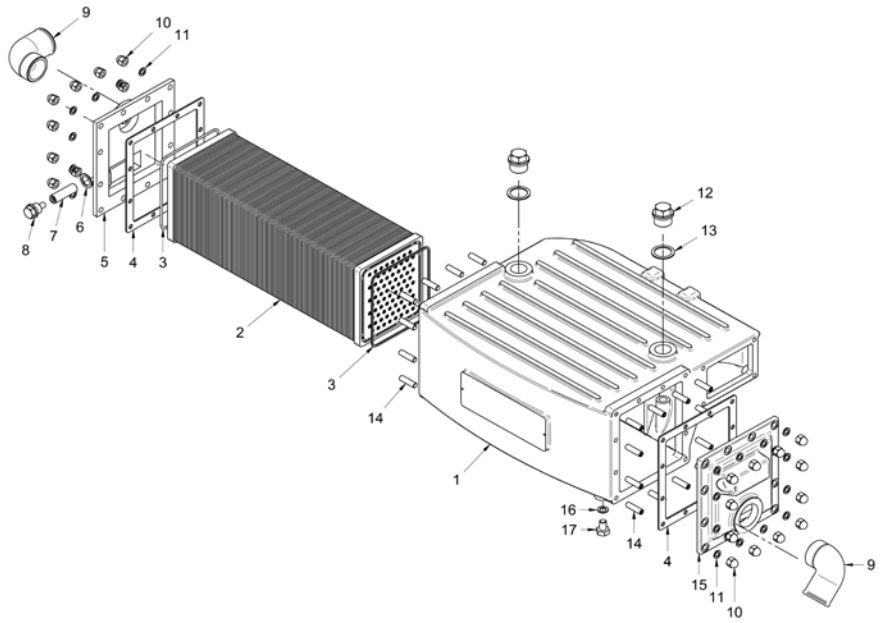


[NS] Not shown

D_SD28_2_3			Spare Parts, Turbocharger
FIG.	**REF.**	**QTY**	**DESCR.**
1	19628013	1	Turbocharger
2	19628012.1B	1	REPAir Kit, TURBO
3	19628012.1A	1	CORE Assembly, TURBO

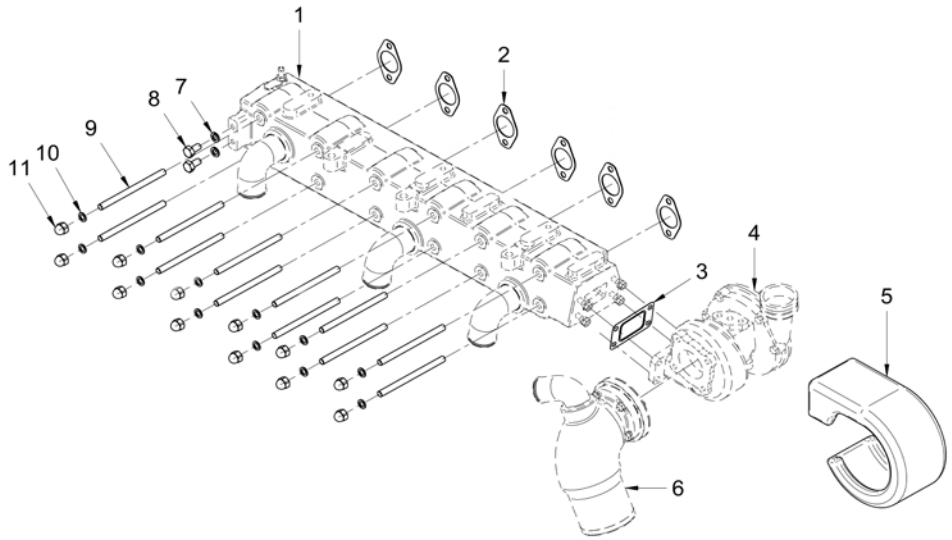


19410016B			Air Cooler, Assy
FIG.	REF.	QTY	DESCR.
	19410016.10BTI	1	---------- [NP]
2	19410016.40	1	Heat EXCHANGE INTERCooler
3	19410016.12	2	O-Ring INTERCooler
4	19410016.7B	2	Gasket
5	19410016.8	1	Cover, With MARK TO INSTALL Anode
6	56000073	1	Washer 16-23-1,5
7	18011031	1	Anode
8	18011009	1	Plug
9	16511009	2	Elbow
10	55122008	24	Nut DIN 1587 M8
11	56000057	24	Washer 8-13-1,5
12	51218759	2	Bolt DIN 910 M26X1.5
13	56000093	2	Washer 26-34-1,5
14	52111259	24	ROD DIN 913 M8-30 8.8
15	19410016.9	1	Cover
16	56000061	1	Washer 10-16-1,5
17	52102306	1	Bolt DIN 933 M10-15 8.8



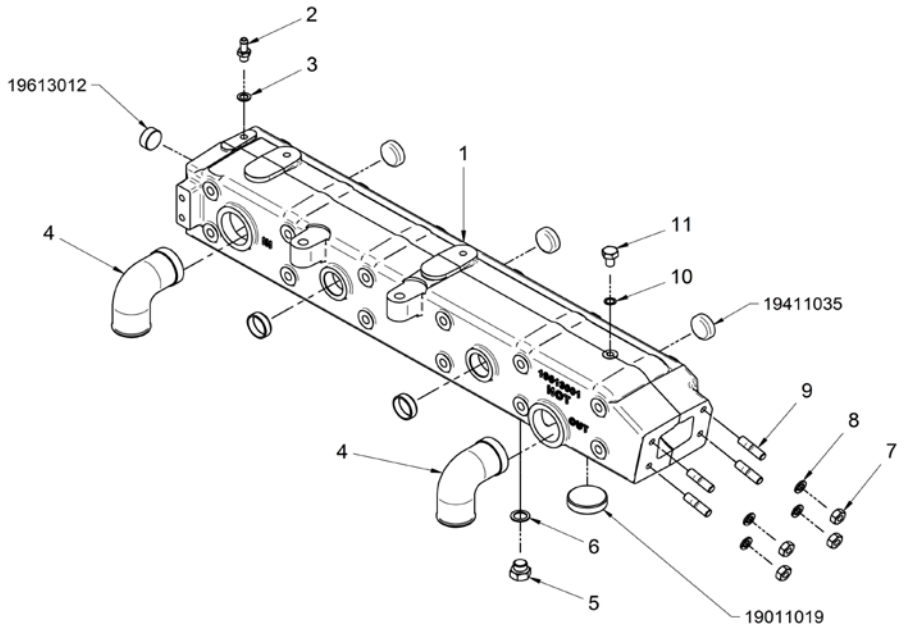
[NP] Not provided

D_SD28_2_4			Exhaust Manifold
FIG.	**REF.**	**QTY**	**DESCR.**
1	19413000	1	MANIFOld,Assy
2	19421181.2	1	Gasket
3	19421183.1	6	Gasket
4	D_SD28_2_3	1	Spare Parts, Turbocharger [NP]
5	19418010	1	Termic, Bucklers
6	D_SD21_3_3	1	Wet Exhaust [NP]
7	53033010	2	Washer GROWER DIN 127-10
8	52102307	2	Bolt DIN 933 M10-20 8.8
9	19413002	12	Stud
10	56000061	12	Washer 10-16-1,5
11	13511013	12	Nut DIN 1587 M10

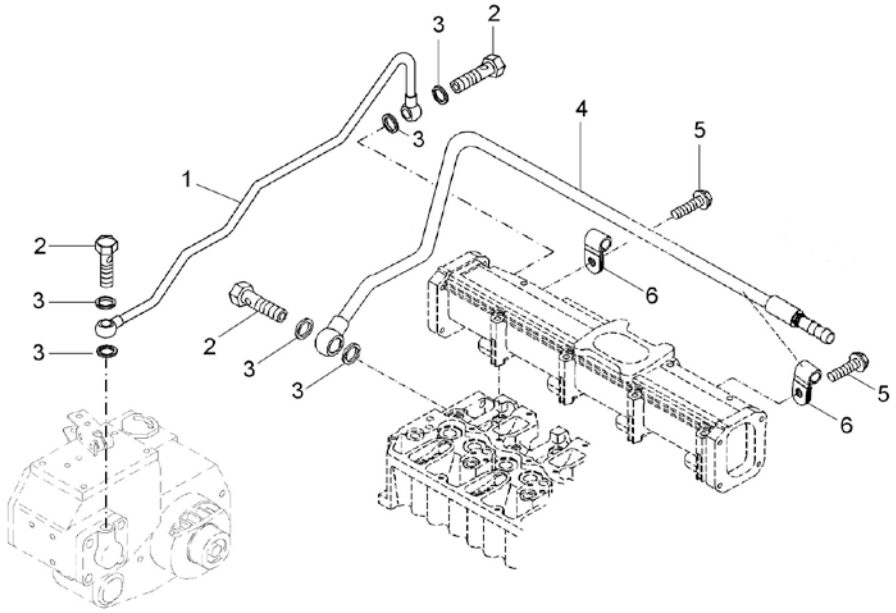


[NP] Not provided

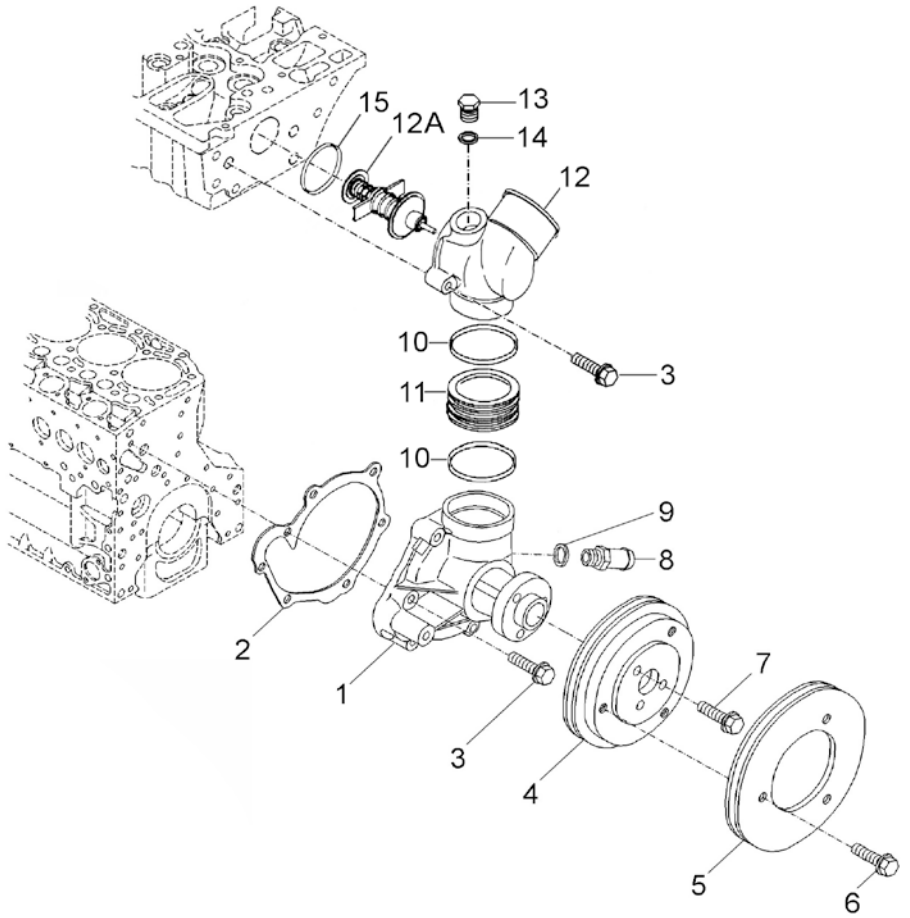
19613000			MANIFOld,Assy
FIG.	**REF.**	**QTY**	**DESCR.**
1	19613001	1	Exhaust MANIFOld
2	13814072	1	NIPPLE EYE
3	56000061	1	Washer 10-16-1,5
4	19111015	2	BEND 1 1/2"
5	12111076	1	Plug
6	56000073	1	Washer 16-23-1,5
7	52120010	4	Nut DIN 934 M10 8.8
8	53033010	4	Washer GROWER DIN 127-10
9	16511007	4	Stud
10	56000011	1	Washer
11	52102306	1	Bolt DIN 933 M10-15 8.8



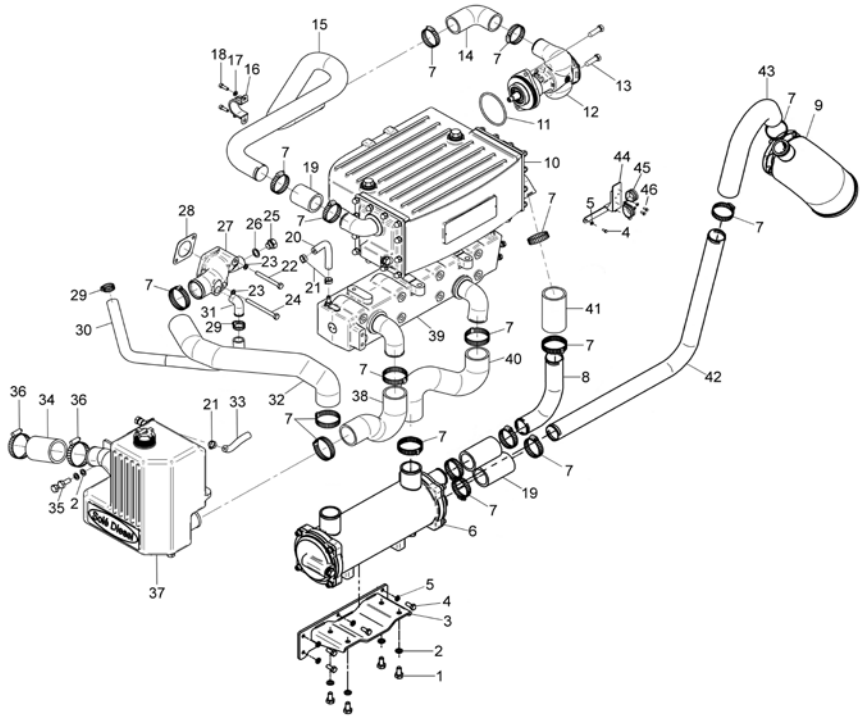
D_SD28_2_5			Breather Line
FIG.	**REF.**	**QTY**	**DESCR.**
1	19421090.1	1	Inlet MANIFOld
2	19421091	3	Screw
3	19624087	6	Sealing Ring
4	19621092	1	Breather Line
5	19428054	3	Screw
6	19428055	3	Pipe Clamp



D_SD28_3_1			Water Pump
FIG.	**REF.**	**QTY**	**DESCR.**
1	19521041	1	Coolant Pump
2	19421040	1	FLAT Gasket
3	19420027	11	Screw
4	19421086.1	1	Pulley
5	19621087	1	V-Grooved Pulley
6	19621088	3	Screw
7	19420036	3	Screw
8	19421089	1	Hose Connector
9	19424064	1	SeallNG Ring
10	19421044	2	O-Ring
11	19421042	1	Plug
12	19521027.1C	1	Thermostat
12A	19521027.1	1	Thermostat
13	19420165	1	VENT Plug
14	19624087	1	Sealing Ring
15	19421041	1	O-Ring

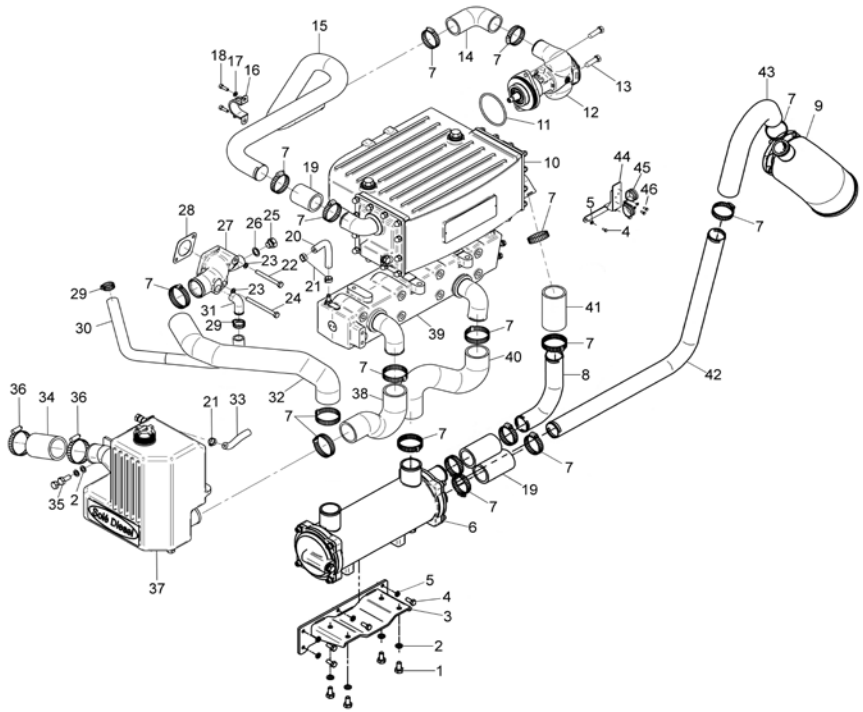


D_SD28_3_2			Cooler Pipes
FIG.	REF.	QTY	DESCR.
1	52102307	4	Bolt DIN 933 M10-20 8.8
2	53033010	6	Washer GROWER DIN 127-10
3	19411014	1	Bracket
4	52102257	4	Bolt DIN 933 M8-20 8.8
5	53033008	4	Washer GROWER DIN 127-8
6	19411000	1	Cooler,Assy Water
7	54082040	12	Clamp DIN 3017 40-60/12 W4
8	19611017	1	Pipe
9	D_SD21_3_3	1	Wet Exhaust [NP]
10	19410016	1	Air Cooler, Assy [NP]
11	19420221	1	O-Ring D. 82X4 VITON
12	39411000	1	D.42 Water Pump Set
13	19424010	2	HEXAGON Bolt
14	19411015	1	Elbow
15	19411016	1	Pipe
16	59071452	1	Clamp 1 42/15 W1
17	51030006	2	Washer DIN 125-6
18	52103157	2	Bolt DIN 912 M6-20 8.8
19	19411045	3	Pipe 42-54-90
20	19411041	1	PURGE Hose
21	54081008	4	Clamp DIN 3017 8-16 W4
22	52101269	1	Bolt DIN 931 M8-80 8.8
23	53038008	2	Washer DIN 6798-A 8
24	52101273	1	Bolt DIN 931 M8-100 8.8
25	12111076	1	Plug
26	56000073	1	Washer 16-23-1,5
27	19411011	1	Cooler Water Inlet BEND
28	19411010	1	Gasket
29	54081020	2	Clamp DIN 3017 20-32/9 W4
30	19411022	1	Hose
31	13211027	1	Water Inlet BEND
32	19511020	1	Hose
33	19411042	1	Hose
34	19411043	1	Pipe 48-60-85
35	52102308	2	Bolt DIN 933 M10-25 8.8

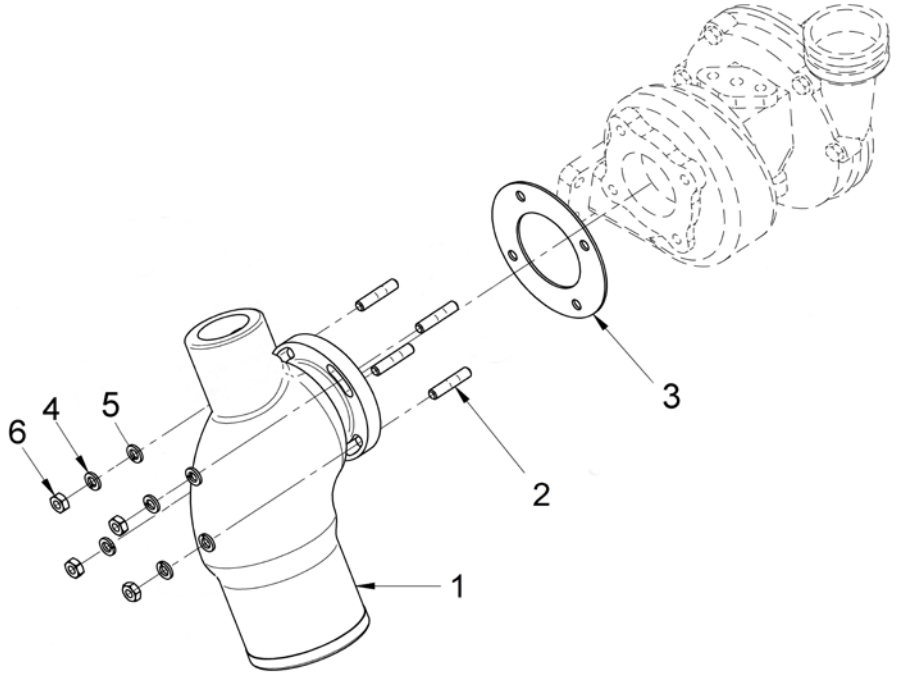


[NP] Not provided

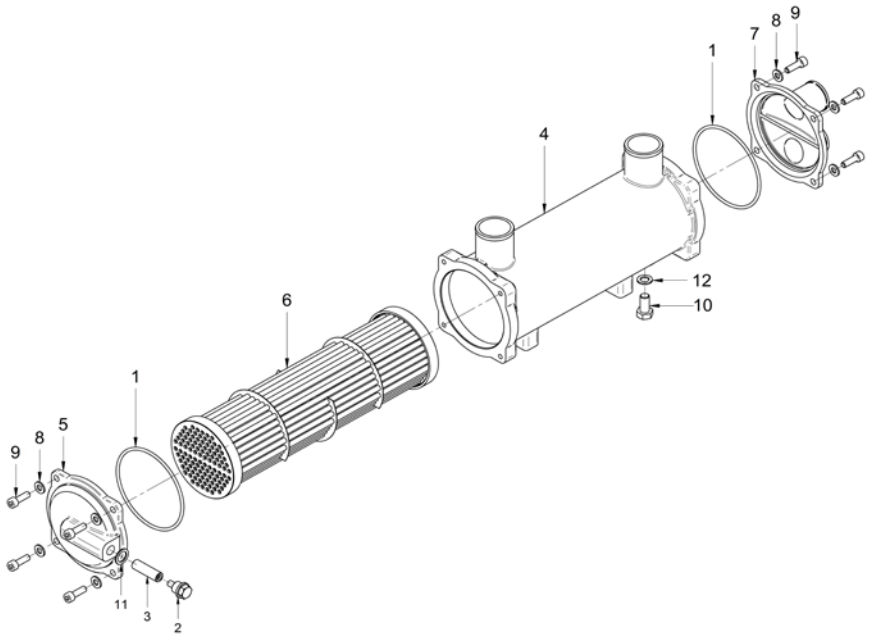
D_SD28_3_2			Cooler Pipes
FIG.	**REF.**	**QTY**	**DESCR.**
36	54082050	2	Clamp DIN 3017 50-70/12 W4
37	19411009	1	Expansion Tank
38	19411019	1	Hose
39	19413000	1	MANIFOld,Assy
40	19411021	1	Hose
42	19611020	1	Hose
43	19611018	1	Pipe
44	19611022	1	Hose
44	19611019	1	Bracket
45	59071452	1	Clamp 1 42/15 W1
46A	52102156	2	Bolt DIN 933 M6-16 8.8
46B	51030006	2	Washer DIN 125-6



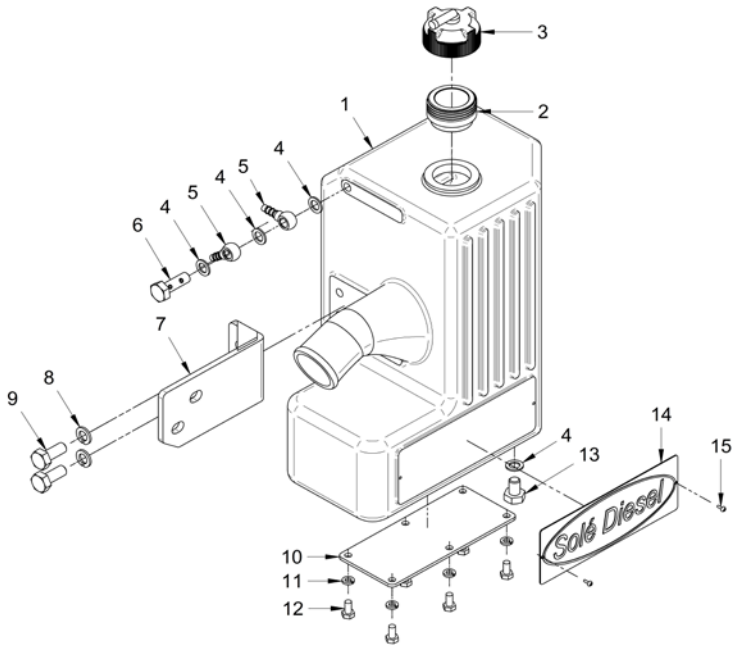
D_SD21_3_3			Wet Exhaust
FIG.	**REF.**	**QTY**	**DESCR.**
1	19613015	1	Elbow,WET Exhaust
2	16713011	4	Stud
3	19613013	1	Gasket
4	53033010	4	Washer GROWER DIN 127-10
5	51030010	4	Washer DIN 125-10
6	55120110	4	Nut DIN 934 M10



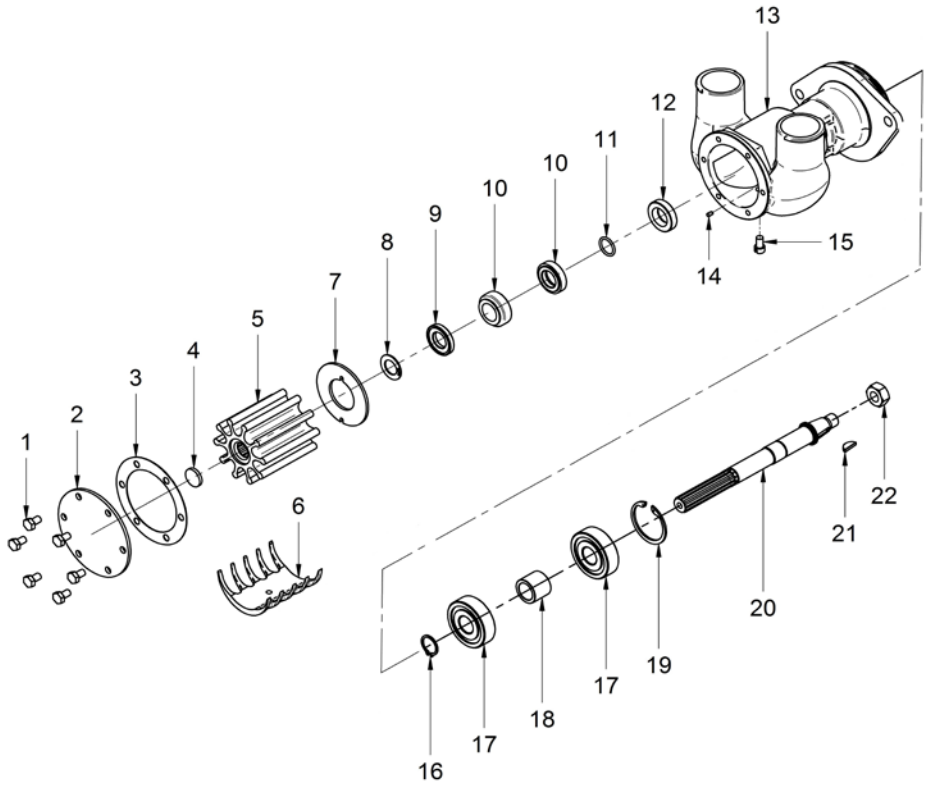
19411000			Cooler,Assy Water
FIG.	**REF.**	**QTY**	**DESCR.**
1	16711007	2	O-Ring D. 116X4
2	18011009	1	Plug
3	18011031	1	Anode
4	19411001	1	Body Cooler
5	19411003	1	Cover, water cooler
6	19411004	1	Heat EXCHANGE
7	19411006	1	Cover, water cooler (2)
8	51030008	8	Washer DIN 125-8
9A	52103257	7	Bolt DIN 912 M8-20 8.8
9B	52103258	1	Bolt DIN 912 M8-25 8.8
10	54102356	1	Bolt DIN 933 M12-16 INOX.
11	56000073	1	Washer 16-23-1,5
12	56000115	1	Washer 12-20-2



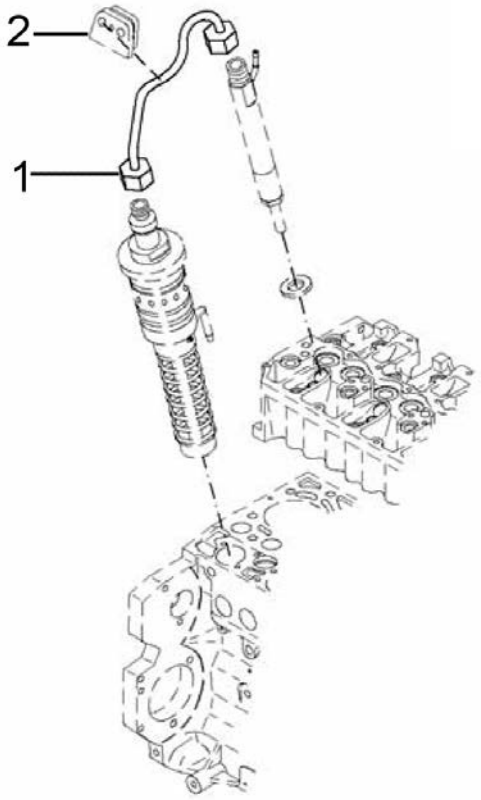
19411009			Expansion Tank
FIG.	**REF.**	**QTY**	**DESCR.**
1	19411009.1	1	Expansion Tank, Body
2	17411004	1	Adapter, MTA Cap
3	13811010	1	Cap
4	56000061	4	Washer 10-16-1,5
5	17614016	2	COLLAR,Union
6	19411040	1	1/8" GAS HOLLOW Screw
7	19411009.2	1	Bracket
8A	51030010	2	Washer DIN 125-10
8B	53033010	2	Washer GROWER DIN 127-10
9	52102307	2	Bolt DIN 933 M10-20 8.8
10	18211002	1	Cover
11	53033006	6	Washer GROWER DIN 127-6
12	52102155	6	Bolt DIN 933 M6-12 8.8
13	52102306	1	Bolt DIN 933 M10-15 8.8



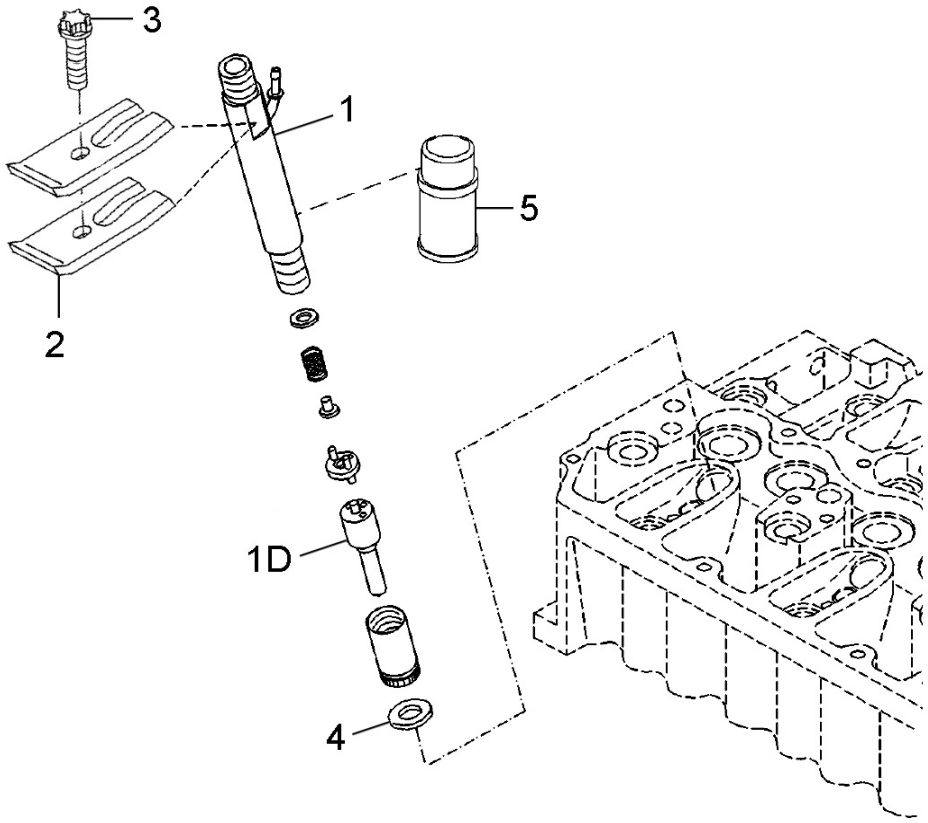
39411000			D.42 Water Pump Set
FIG.	**REF.**	**QTY**	**DESCR.**
1	54102154	6	Bolt DIN 933 M6-10 INOX
2	34711002	1	Cover Pump
3	34711003	1	Gasket Cover
4	34711041	1	Plug, impeller
5	39411008	1	1" L.68 Impeller
6	39411005	1	Pump Cam
7	34711026	1	Plate,Friction
8	54040016	1	CIRClip E-16
9	36511018	1	Washer,seal
10	36511019	1	Seal
11	33311013	1	O-Ring D. 15X2
12	36511020	1	Seal 16-30-7
13	39411001	1	Body,Water Pump
14	36511017	1	Pin,Dowel
15	54108154	1	Bolt DIN 84 M6-10
16	53040017	1	CIRClip DIN 471 E-17
17	39411014	2	Ball Bearing 6303-2RS
18	39411015	1	SELFOil D. 16X24X20
19	53041047	1	CIRClip DIN 472 I-47
20	39411010	1	Shaft
21	35111035	1	KEY DIN 6888 3-6,5-16 INOX
22	54121012	1	Nut DIN 439 M12



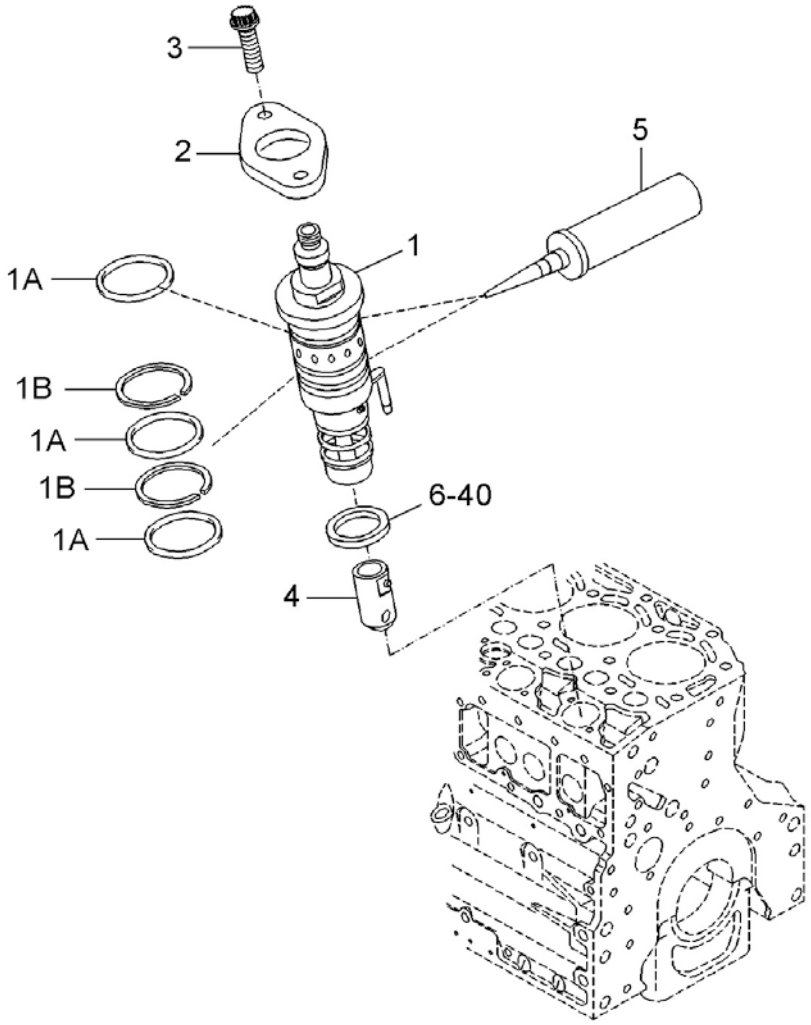
D_SD28_4_1			Fuel Pipe
FIG.	REF.	QTY	DESCR.
1	19424052	6	Pipe Injection
2	19421018	6	Rubber Seal



D_SD28_4_2			Injection Nozzle
FIG.	**REF.**	**QTY**	**DESCR.**
1	19626001	1	Fuel Injector
1D	19426018G	1	Nozzle Element
2	19426010	2	Flange
3	19426011	1	Bolt
4	19426012	1	SeallNG Ring
5	19426013	1	ANTI-RUST AGENT

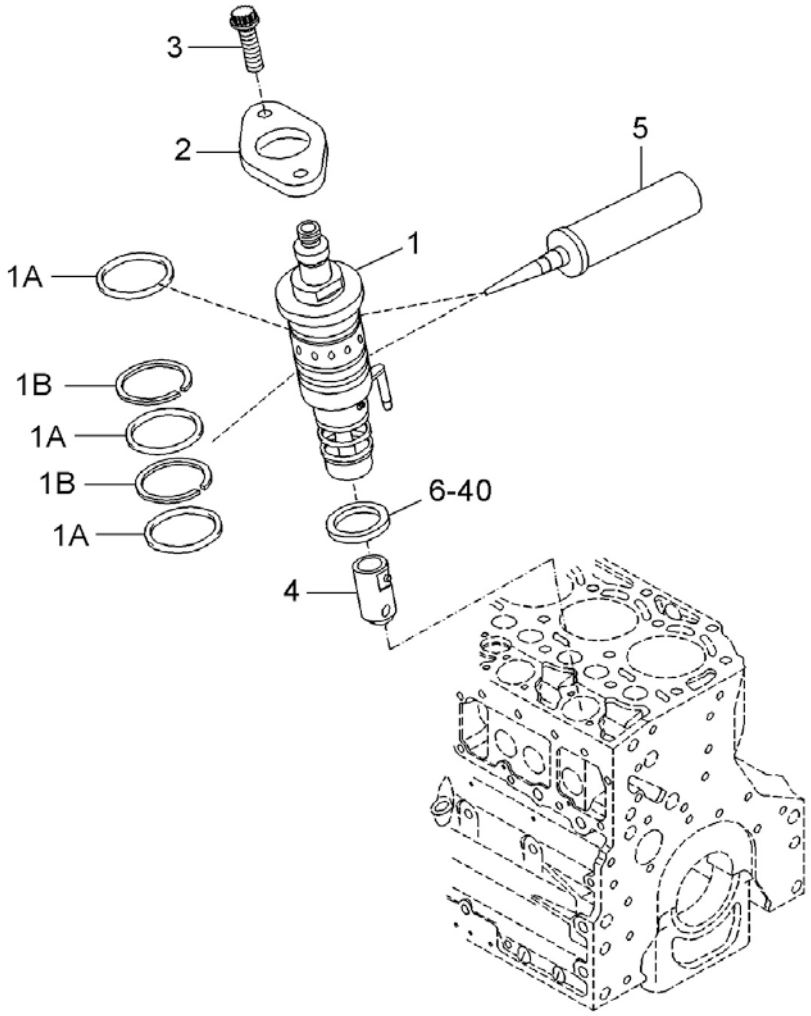


D_SD28_4_3			Fuel Injection Pump
FIG.	**REF.**	**QTY**	**DESCR.**
1	19425001	1	Pump Assy,Fuel Injection
1A	19425002	3	O-Ring D. 40X3,5
1B	19425003	2	Shim
2	19420110	1	Flange
3	19420111	2	COLLAR Screw
4	19420090	1	Roller Tappet
5	19420113	1	LUBRICANT
6	19420112	0	Washer 1,0mm [VAR]
7	19420114	0	Washer 1,1mm [VAR]
8	19420115	0	Washer 1,2mm [VAR]
9	19420116	0	Washer 1,3mm [VAR]
10	19420117	0	Washer 1,4mm [VAR]
11	19420118	0	Washer 1,5mm [VAR]
12	19420119	0	Washer 1,6mm [VAR]
13	19420120	0	Washer 1,7mm [VAR]
14	19420121	0	Washer 1,8mm [VAR]
15	19420122	0	Washer 1,9mm [VAR]
16	19420123	0	Washer 2,0mm [VAR]
17	19420124	0	Washer 2,1mm [VAR]
18	19420125	0	Washer 2,2mm [VAR]
19	19420126	0	Washer 2,3mm [VAR]
20	19420127	0	Washer 2,4mm [VAR]
21	19420128	0	Washer 2,5mm [VAR]
22	19420129	0	Washer 2,6mm [VAR]
23	19420130	0	Washer 2,7mm [VAR]
24	19420131	0	Washer 2,8mm [VAR]
25	19420132	0	Washer 2,9mm [VAR]
26	19420133	0	Washer 3,0mm [VAR]
27	19420134	0	Washer 3,1mm [VAR]
28	19420135	0	Washer 3,2mm [VAR]
29	19420136	0	Washer 3,3mm [VAR]
30	19420137	0	Washer 3,4mm [VAR]
31	19420138	0	Washer 3,5mm [VAR]
32	19420139	0	Washer 3,6mm [VAR]
33	19420140	0	Washer 3,7mm [VAR]

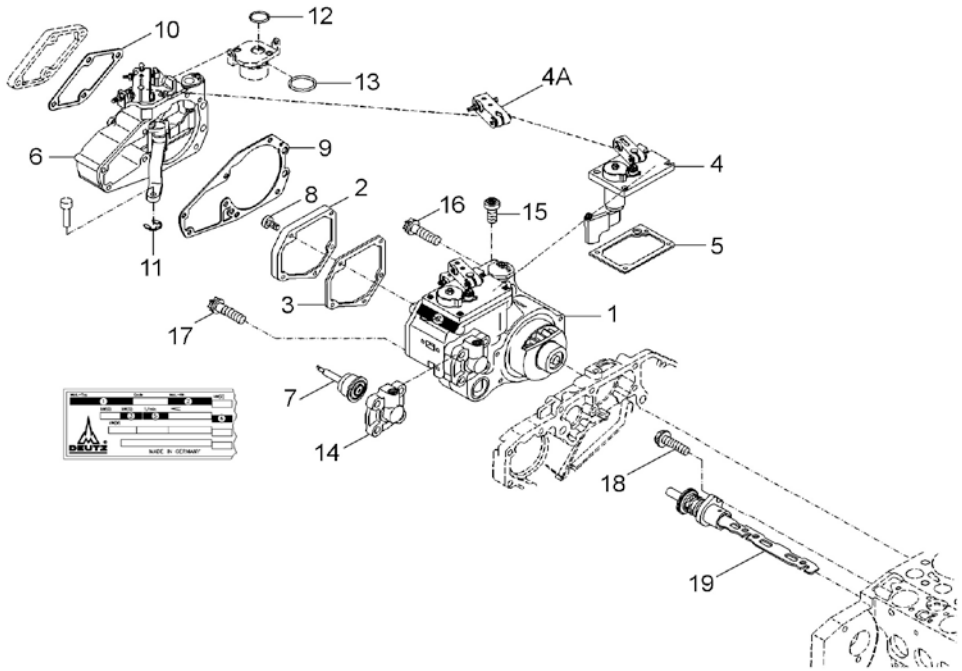


[VAR] Variable according to repair

D_SD28_4_3			Fuel Injection Pump
FIG.	REF.	QTY	DESCR.
34	19420141	0	Washer 3,8mm [VAR]
35	19420142	0	Washer 3,9mm [VAR]
36	19420143	0	Washer 4,0mm [VAR]
37	19420144	0	Washer 4,1mm [VAR]
38	19420145	0	Washer 4,2mm [VAR]
39	19420146	0	Washer 4,3mm [VAR]
40	19420147	0	Washer 4,4mm [VAR]

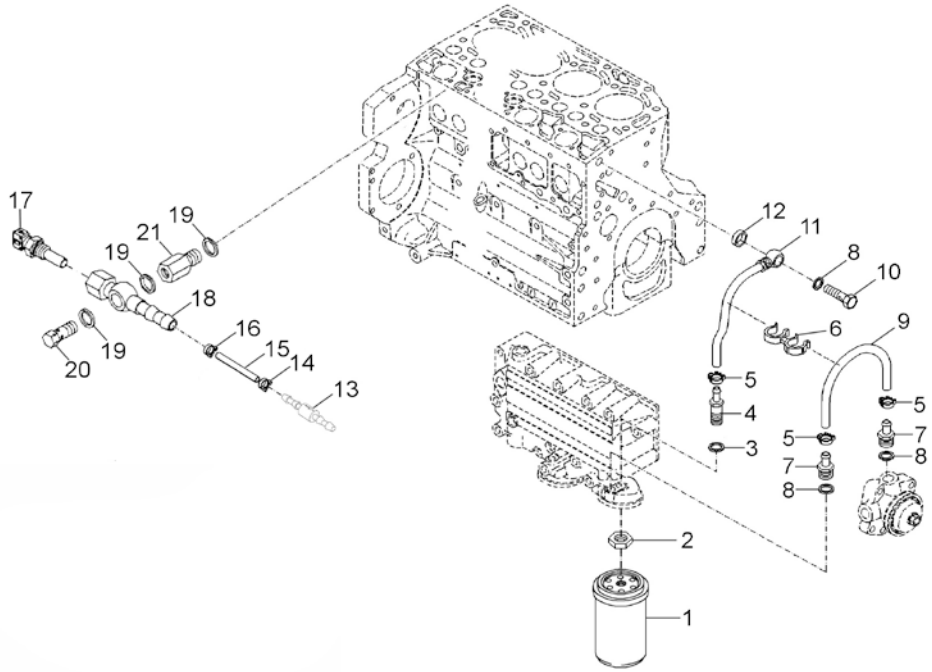


D_SD28_4_4			Governor Parts
FIG.	REF.	QTY	DESCR.
1	19423016	1	CONTRoller
2	19423001	1	HOOD
3	19423002	1	Gasket
4	19623003	1	Governor Cover
4A	19423006	2	Lever/ARM
5	19423004	1	Gasket
6	19423005	1	Cover
7	19423007	1	DIAPHRAGM
8	19423008	4	RETAINING Washer
9	19423009	1	Gasket
10	19423010	1	Gasket
11	19423011	1	RETAINING Washer
12	19423012	1	Ring
13	19423014	1	Ring
14	19423015	1	Cover
15	19421084	1	LOCKING Screw
16	19421082	4	Bolt
17	19421083	1	Bolt
18	19423026	1	HEXAGON Bolt
19	19523025	1	Control ROD
NS	19427155	1	Packing Compound [NS]



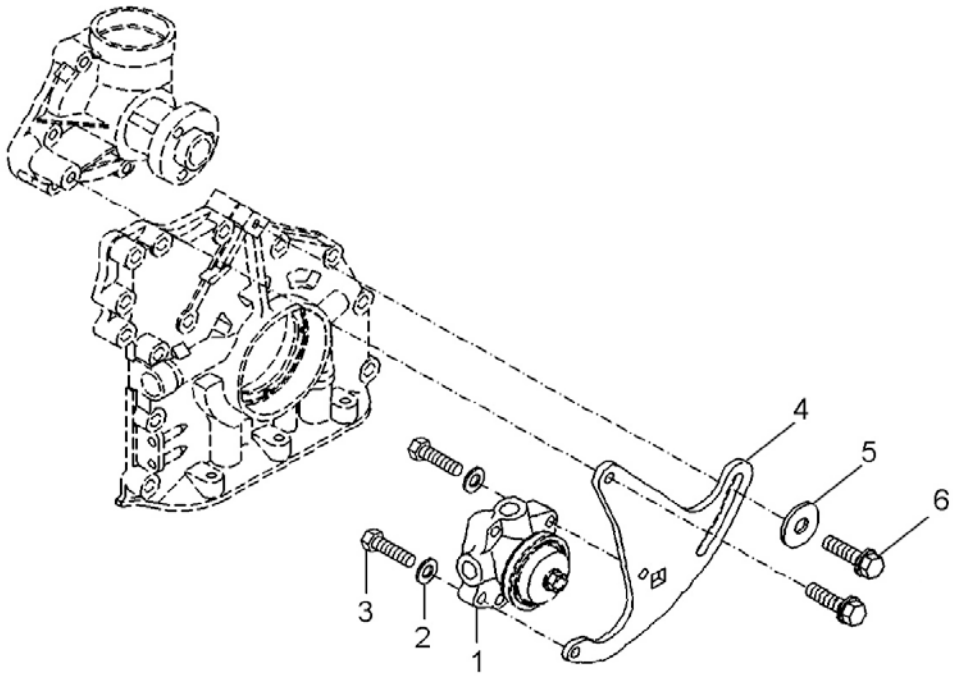
[NS] Not shown

D_SD28_4_5			Fuel Filter
FIG.	**REF.**	**QTY**	**DESCR.**
1	19424022	1	Fuel Filter
2	19424065	1	HEXAGON Nut
3	19624064	1	Sealing Ring
6	19624059	1	Hose Retanier
7	19424049.1	2	Nipple
8	19420059G	3	SeallNG Ring
10	12814051	1	Screw,eye
11	19424060.1	1	Pipe,fuel
12	19424062	1	SeallNG Ring
13	19424001	1	Valve Assy
14	51086018	1	ONE EAR Clamp With INTERIOR Ring
15	19414003.1	1	Rubber Pipe
16	51086017	1	ONE EAR Clamp With INTERIOR Ring
17	19427189	1	Temper.Transmitter
18	19624020	1	Coupling,ball
19	19421016	3	SeallNG Ring
20	19424053	1	Valve Assy
21	19624021	1	Sender Holder
NS	19624067	1	Corrugated Tube [NS]

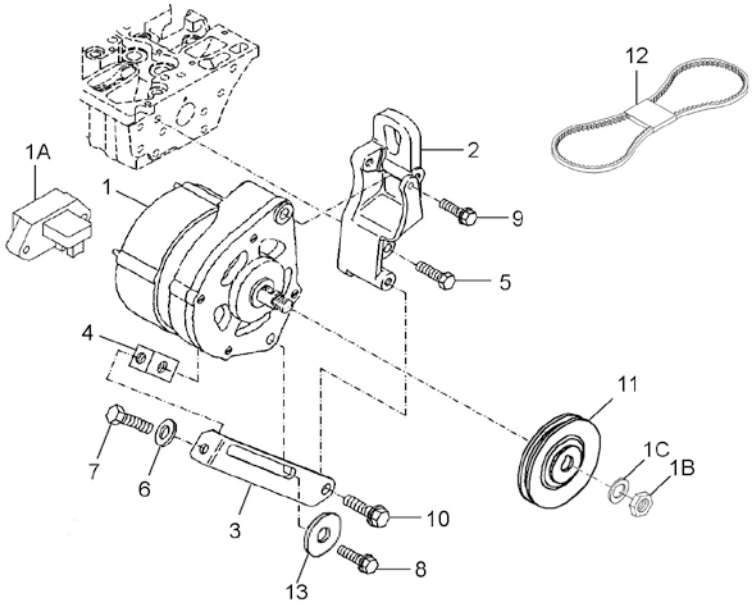


[NS] Not shown

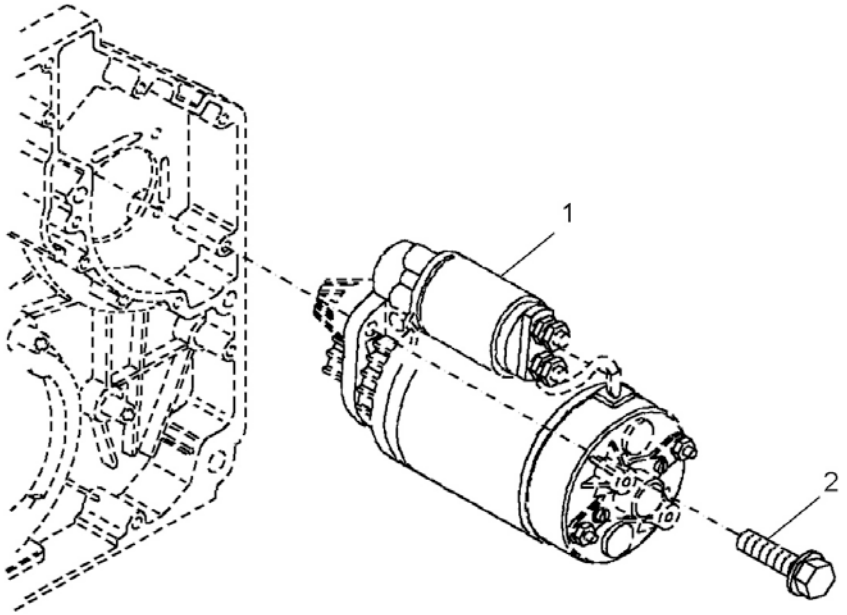
D_SD28_4_6			Feed Pump
FIG.	**REF.**	**QTY**	**DESCR.**
1	19424040.1	1	Fuel Pump
2	19424043	2	Spring Washer
3	19424006	2	HEXAGON Bolt
4	19424041.1	1	Clamping Strap
5	19424047	1	Plain Washer
6	19424046	2	HEXAGON Bolt



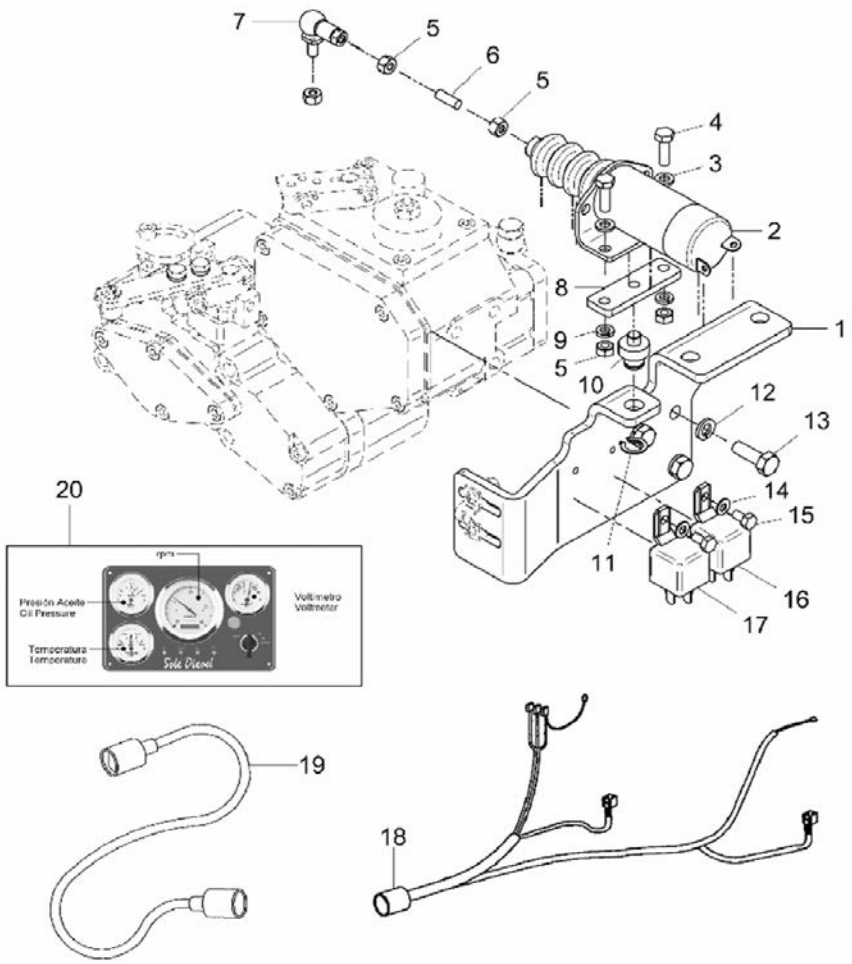
D_SD28_5_1			Kit Alternator 24V/55A
FIG.	**REF.**	**QTY**	**DESCR.**
1	19627010	1	Alternator 24V/35A
1A	19427016.1	1	VOLTAGE REGULATOR
1B	19424065	1	HEXAGON Nut
1C	19420057.1	1	Plain Washer
2	19427002G	1	Bracket
3	19427011.1	1	Brace,alternator
4	19427008G	1	Threaded Piece
5	19427005.1	4	HEXAGON Bolt
6	19428007	1	Plain Washer
7	19427013	1	HEXAGON Bolt
8	19422124	1	HEXAGON Bolt
9	19622053	1	Hexagon Bolt
10	19424006	1	HEXAGON Bolt
11	19427052.1	1	V-GROOVED Pulley
12	17117020	1	Belt Type SPAX 1060
13	19424047	1	Plain Washer



D_SD17_5_2			Starter
FIG.	**REF.**	**QTY**	**DESCR.**
1	19427001.2	1	Starter Assy 24V
2	19427020.1	3	Bolt

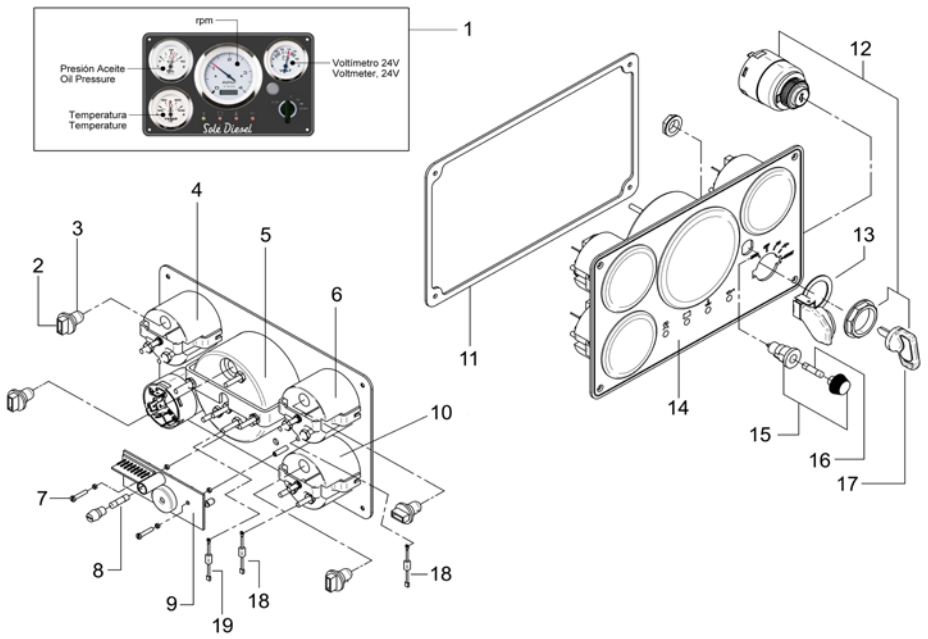


D_SD21_5_3			24V Electrical Wiring
FIG.	**REF.**	**QTY**	**DESCR.**
1	19419001	1	Bracket,Engine Control
2	19424025	1	SOLENOID 24V ETS
3	51030006	2	Washer DIN 125-6
4	52102157	2	Bolt DIN 933 M6-20 8.8
5	52120006	4	Nut DIN 934 M6 8.8
6	52111163	1	ROD DIN 913 M6-50 8.8
7	19419003.1	1	Mechanical Bearing
8	19419005	1	Bracket
9	53033006	2	Washer GROWER DIN 127-6
10	19419006	1	Shaft
11	53040012	1	CIRClip DIN 471 E-12
12	53033008	3	Washer GROWER DIN 127-8
13	52102257	3	Bolt DIN 933 M8-20 8.8
14	51030005	2	Washer DIN 125-5
15	52102104	2	Bolt DIN 933 M5-10 8.8
16	17417005.1	1	Relay 24V 24-22A
17	19017005	1	Relay 24V 24/22A
18	60996200.1	1	SD205/280 Electrical Wiring
19	60985210	1	Engine Wiring Ext. 4 M.
20	D_SD17_5_4	1	Deluxe Instrument Panel [NP]

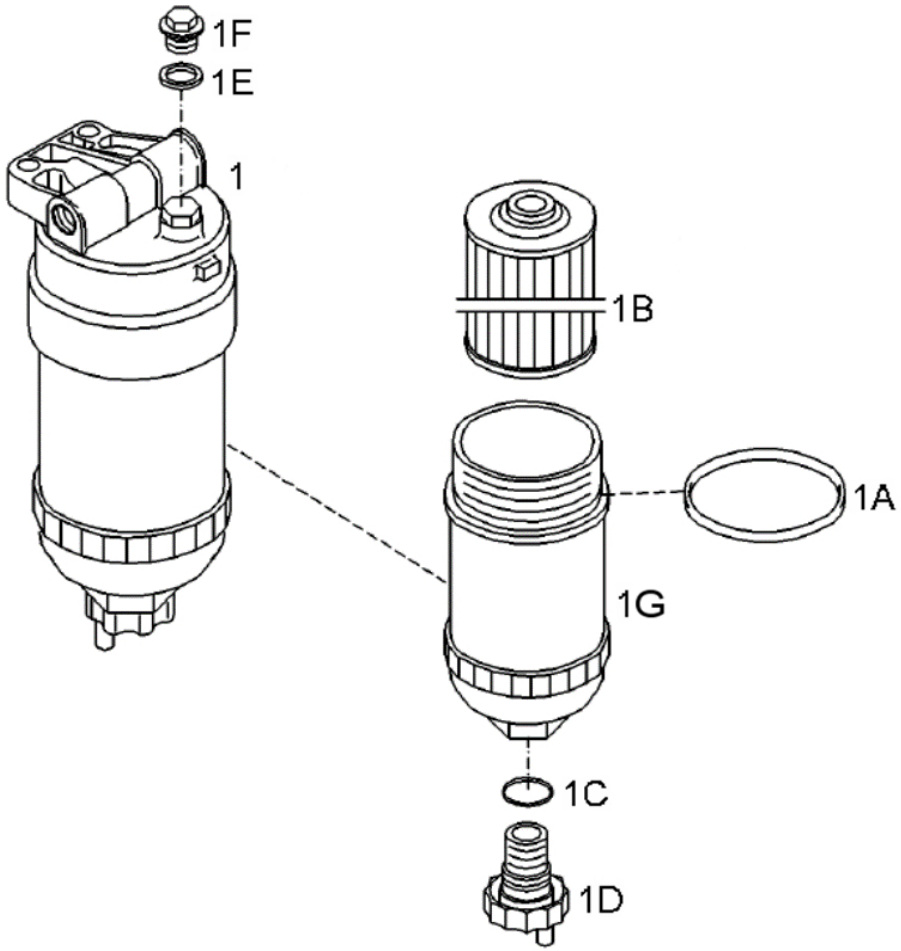


[NP] Not provided

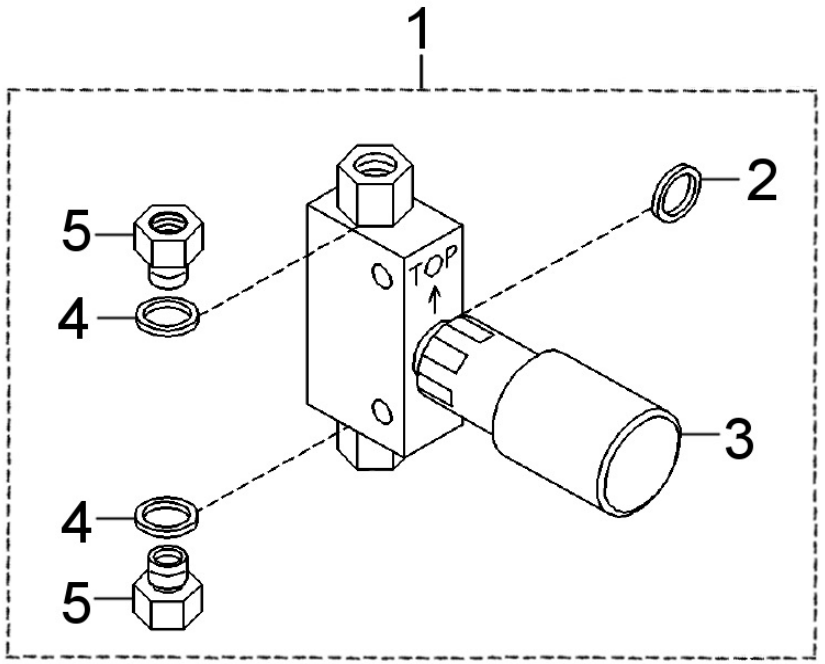
D_SD17_5_4			Deluxe Instrument Panel
FIG.	**REF.**	**QTY**	**DESCR.**
1	60994125.2	1	Panel TE3 SDZ-165/205/280
2	60900931	4	SOCKET,WEDGE BASE
3	60900930	4	Bulb GE400 WEDGE BASE 24V
4	60900926R	1	VOLTMETER 24 V
5	60994911	1	TACHOMETER SDZ-165/205
6	60900921R	1	Oil Pressure Gauge 24 V
7	54108003	1	Bolt DIN 84 M3-8 INOX.
8	60900119	1	Fuse 0.5A
9	60900302.1	1	Integrated Circuit Plate 24V
10	60900916R	1	Water Gauge 24 V
11	60990006	1	Gasket Panel
12	60900037	1	Key-Locking
13	60900038	1	Cover,KEY
14	60990005	1	Panel N.3
15	60900121	1	FuseHolder, panel
16	60900118	1	Fuse 10 A.
17	60900036	1	Key,Starter Switch
18	60900933	2	VOLTAGE REDUCER 7W
19	60900932	1	VOLTAGE REDUCER 5W



D_19424020			Fuel Filter
FIG.	**REF.**	**QTY**	**DESCR.**
1	19424020	1	SPin-ON Fuel FILT.
1A	19424020.2	1	O-Ring D. 95X4
1B	19424020.3	1	Filter INSERT
1C	19424020.4	1	O-Ring D. 12X2,5
1D	19424020.5	1	DRAIN Valve
1E	19421016	1	SeallNG Ring
1F	19420071	1	Screw Plug
1G	19424020.8	1	Filter Housing

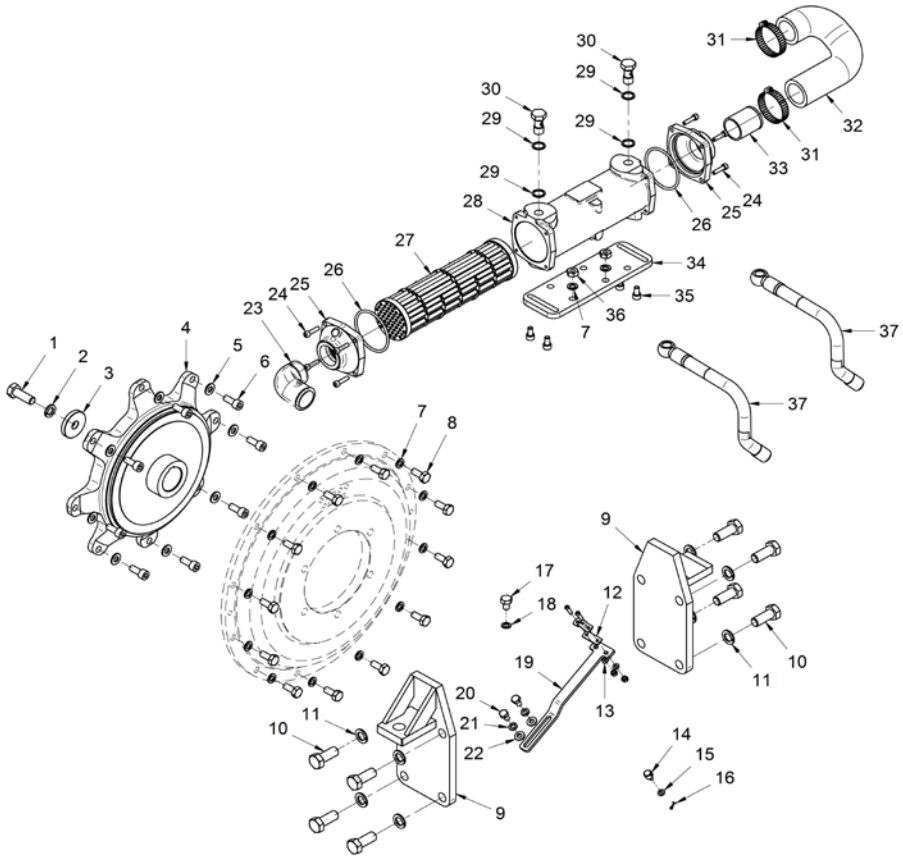


D_19424050			Hand Pump
FIG.	**REF.**	**QTY**	**DESCR.**
1	19424075	1	Kit Fuel Pump
1A	19424050.1	1	SeallNG Ring
1B	19424050.2	1	Hand Pump
1C	19424078	2	Gasket
1D	19424050.3	2	Adapter NIPPLE

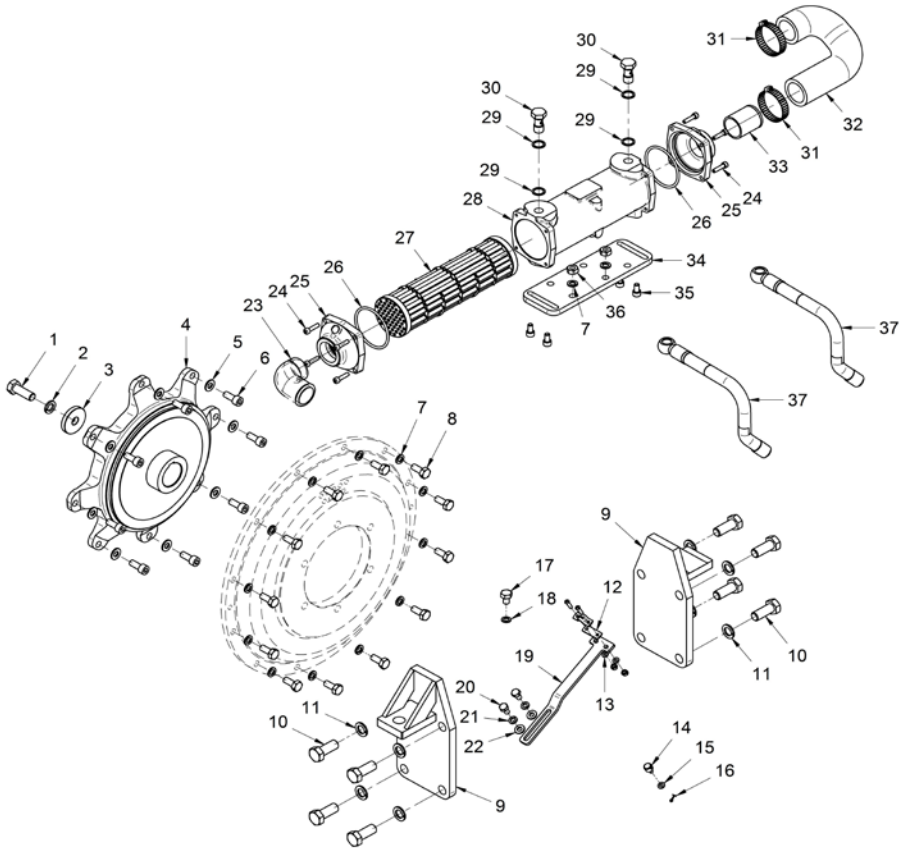


Kit Gearbox

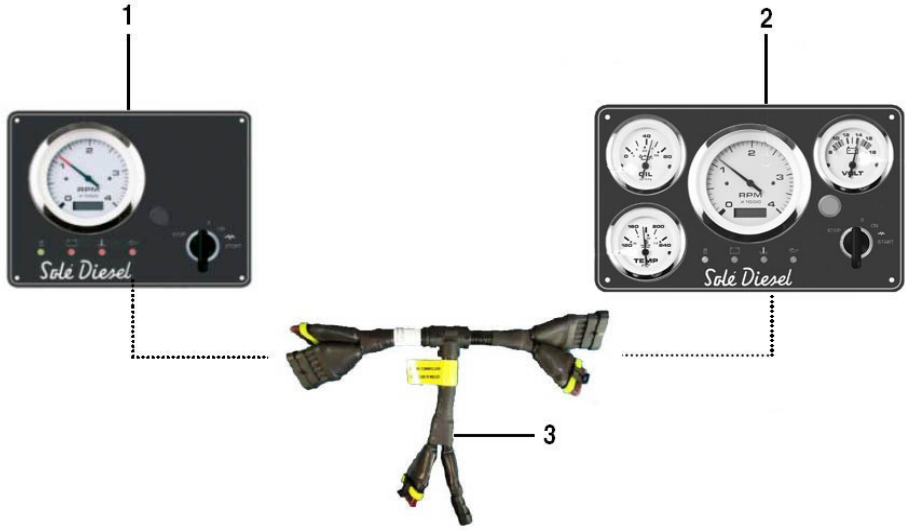
19610200.2			Kit GearBox TM-265
FIG.	**REF.**	**QTY**	**DESCR.**
1	52102411	1	Bolt DIN 933 M14-40 8.8
2	53033014	1	Washer GROWER DIN 127-14
3	24840021	1	Washer
4	19410070	1	Flexible Coupling CENTAFLEX TM-265
5	53038010	8	Washer DIN 6798-A 10
6	52103308	8	Bolt DIN 912 M10-25 8.8
7	53033010	14	Washer GROWER DIN 127-10
8	52102308	12	Bolt DIN 933 M10-25 8.8
9	19610007	2	Bracket,REVERSE TM 265
10	52102461	8	Bolt DIN 933 M16-40 8.8
11	53033016C	8	Washer
12	24810913	1	Clamp,CABLE
13	51030005	2	Washer DIN 125-5
14	14719115	1	Coupling,cable
15	51030006	1	Washer DIN 125-6
16	51051107	1	Pin DIN-94 1,6-16
17	52102306	1	Bolt DIN 933 M10-15 8.8
18	56000061	1	Washer 10-16-1,5
19	18619020	1	Bracket,Gear box control
20	52102256	2	Bolt DIN 933 M8-15 8.8
21	53033008	2	Washer GROWER DIN 127-8
22	51030008	2	Washer DIN 125-8
23	16511009	1	Elbow
24	52103158	8	Bolt DIN 912 M6-25 8.8
25	19412003	2	Cover, water cooler R. 1 1/4 GAS
26	14712004	2	O-Ring D. 72X4
27	14712003	1	Element,oil cooler
28	14712001	1	Body,cooler
29	57000375	4	Washer 17-22-1,5
30	14712015	2	Bolt,Coupling pipe oil
31	54082032	2	Clamp DIN 3017 32-50/12 W4
32	19411034	1	Pipe, rubber
33	19411048	1	Coupling
34	19012019	1	Bracket, Cooler Oil
35	52103256	4	Bolt DIN 912 M8-15 8.8



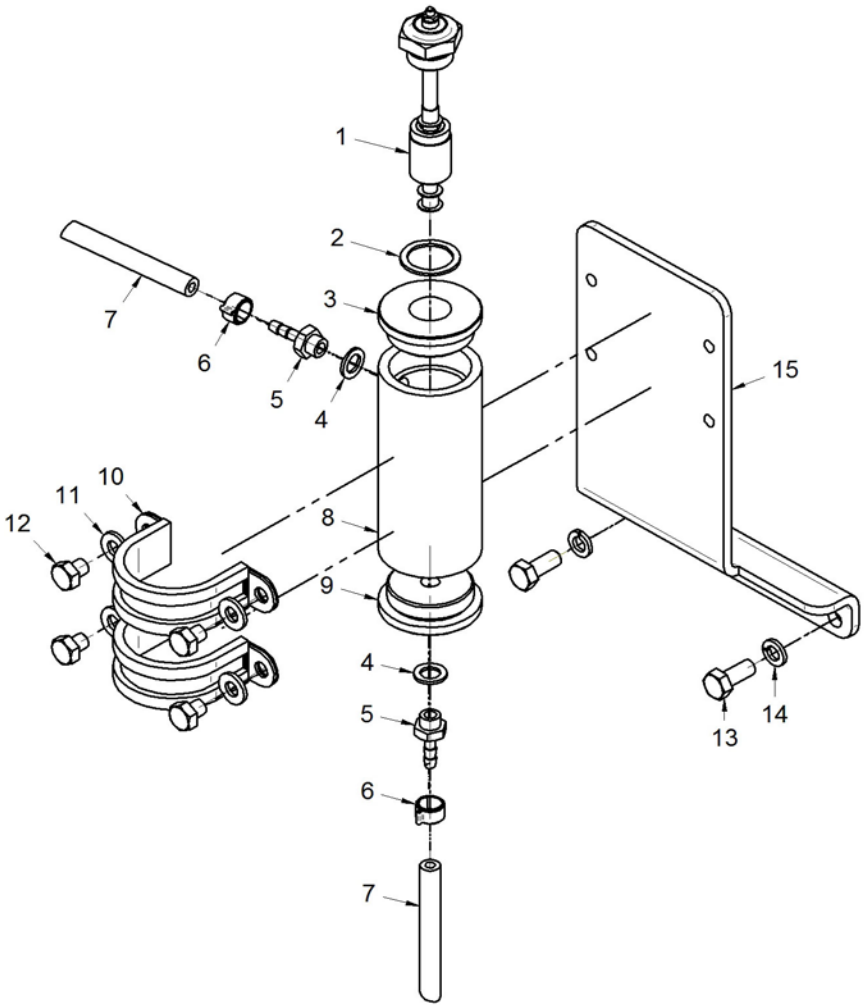
19610200.2			Kit GearBox TM-265
FIG.	**REF.**	**QTY**	**DESCR.**
36	52120010	2	Nut DIN 934 M10 8.8
37	17112024	2	Pipe, rev.oil Cooler



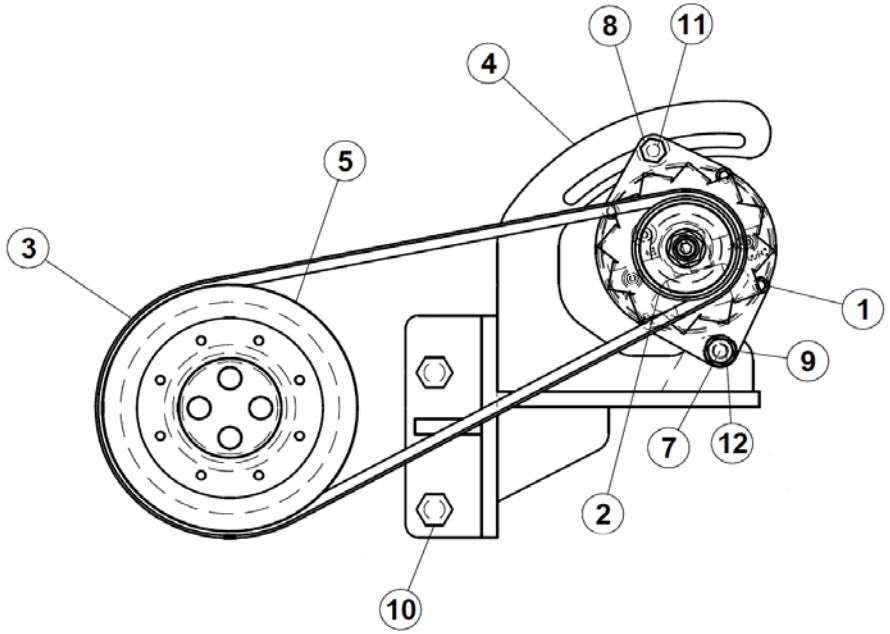
60994000D			Kit 2nd Panel TE4 SDZ-165/205 24V
FIG.	**REF.**	**QTY**	**DESCR.**
1	60994125.2	1	Panel TE3 SDZ-165/205/280
2	60994126.2	1	Panel TE4 SDZ-165/205/280
3	60900210.2	1	T Double Panel DERIVATION



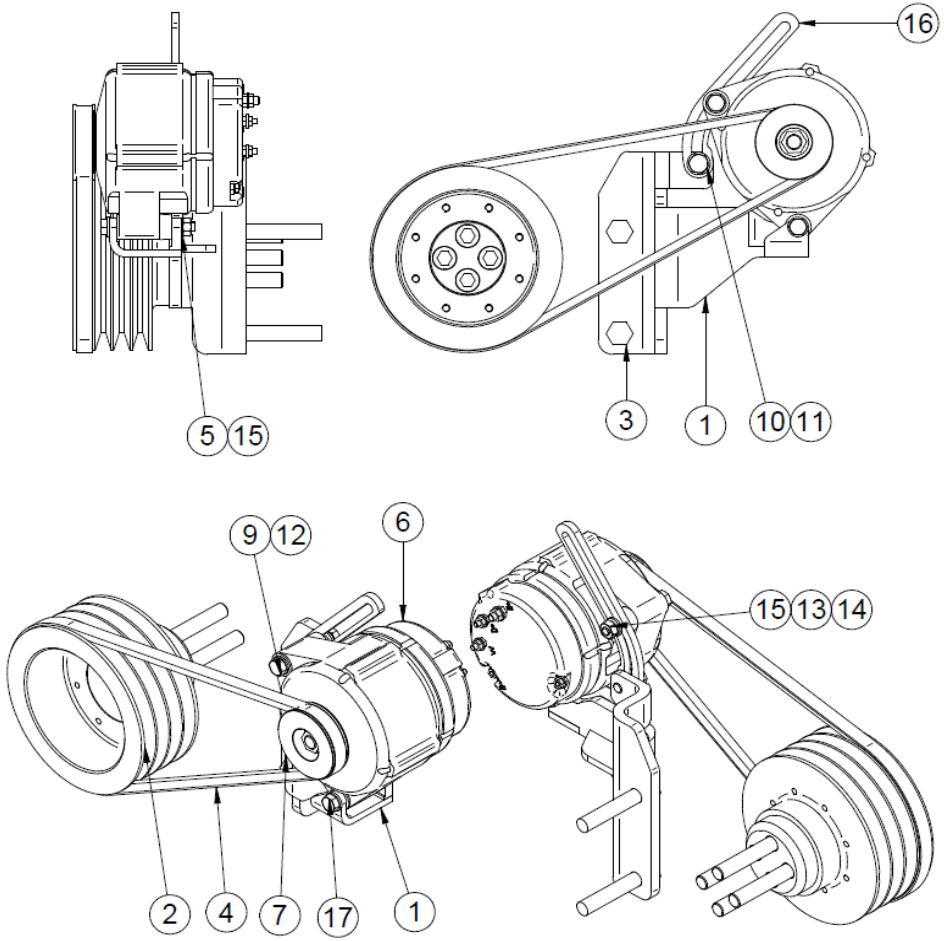
19417017C			Kit Fuel Leak Alarm 24V
FIG.	**REF.**	**QTY**	**DESCR.**
1	17517017.1	1	Fuel Leak Switch 12V
2	56000086	1	Washer 22,3-29-1,5
3	17517009.3	1	Cover, Upper
4	56000061	2	Washer 10-16-1,5
5	60571041.39	2	Gas-Oil Wall Bushing D.6 MALE
6	51086011	2	ONE EAR Clamp With Interior Ring
7	M86510510	1,5	ROUND Pipe AH-1 D. 5-10
8	17517009.2	1	Tube
9	17517009.4	1	Lower cover
10	59072482	2	Clamp 2 48/20 W1
11	51030008	4	Washer DIN 125-8
12	52102254	4	Bolt DIN 933 M8-10 8.8
13	52102257	2	Bolt DIN 933 M8-20 8.8
14	53033008	2	Washer GROWER DIN 127-8
15	19417009.5	1	Alarm Bracket



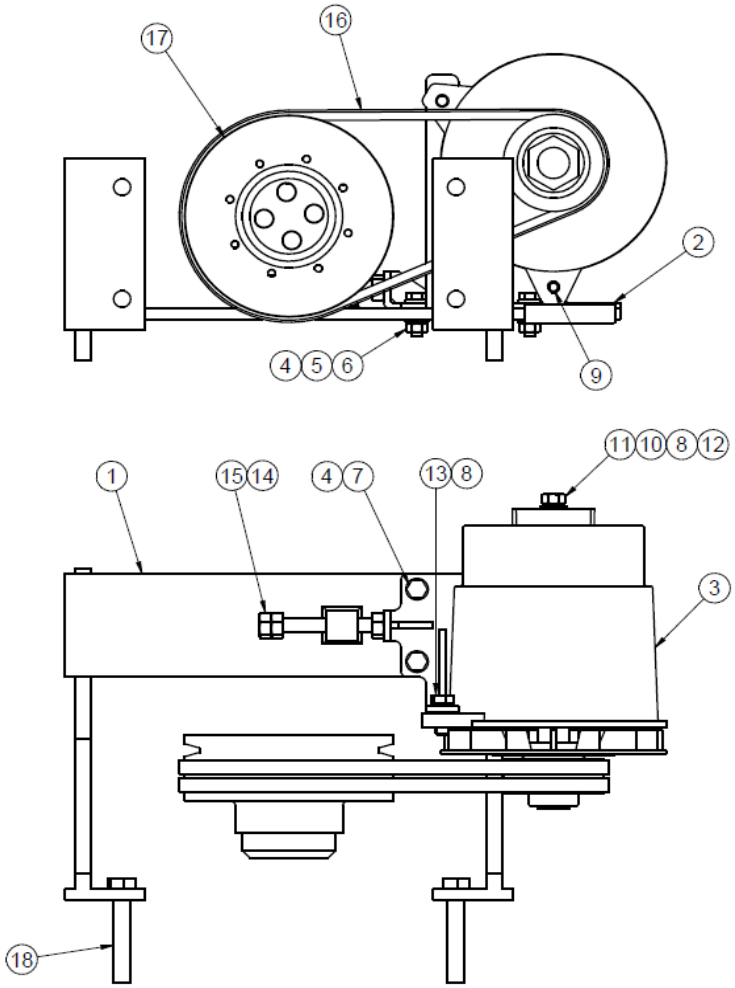
19517097			Kit 2nd Alternator 28V/55A
FIG.	**REF.**	**QTY**	**DESCR.**
1	17417021	1	Alternator 28V/55A
2	17417022	1	Pulley
3	17421028	1	Belt Type SPA 1180
4	19517097.1	1	SECOND Alternator Bracket
5	19610102	1	V-Front Pulley 3A
6	51030010	1	Washer DIN 125-10
7	51030012	2	Washer DIN 125-12
8	52101310	1	Bolt DIN 931 M10-35 8.8
9	52101376	1	Bolt DIN 931 M12-130 8.8
10	53101471	2	Bolt DIN 931 M16-90 12.9
11	52120010	1	Nut DIN 934 M10 8.8
12	52120012	1	Nut DIN 934 M12 8.8
13	53033010	1	Washer GROWER DIN 127-10
14	53033012	1	Washer GROWER DIN 127-12



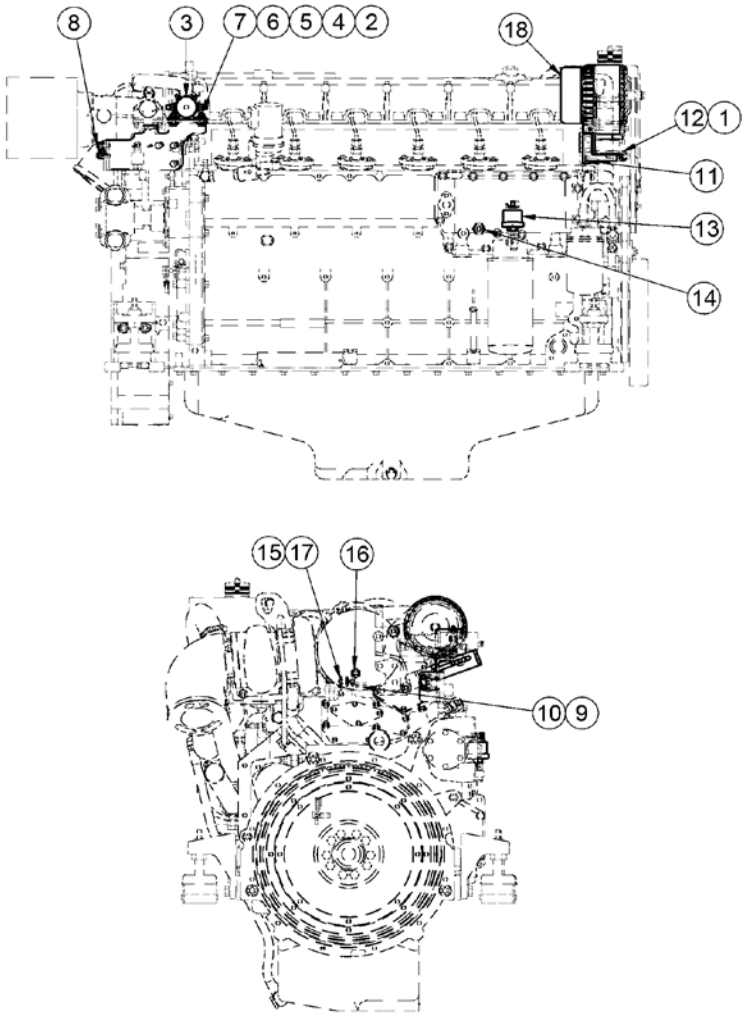
19517099			Kit 2nd Alt. 14V/150A With Pulley 4B
FIG.	**REF.**	**QTY**	**DESCR.**
1	19517099.01	1	Bracket
2	19610104	1	Pulley 4B
3	52101471	2	Bolt DIN 931 M16-90 8.8 CINCADO
4	17421028G	1	Belt Type BX 44 1160
5	53033010	2	Washer GROWER DIN 127-10
6	19017010.4	1	Alternator 14V/150A
7	19417027	1	Pulley
9	52101319	1	Bolt DIN 931 M10-80 8.8
10	52102358	1	Bolt DIN 933 M12-25 8.8
11	51030012	1	Washer DIN 125-12
12	53038010	1	Washer DIN 6798-A 10
13	51030010	2	Washer DIN 125-10
15	52120010	2	Nut DIN 934 M10 8.8
16	19517099.02	1	Brace
17	52101321	1	Bolt DIN 931 M10-90 8.8



19517100			Kit 2nd Alternater 28V/140A
FIG.	**REF.**	**QTY**	**DESCR.**
1	19517101	1	Alternator, Bracket
2	17417102	1	Alternator, Bracket
3	17417103	1	Alt. 28V 70/140A
4	51030010	8	Washer DIN 125-10
5	53033010	4	Washer GROWER DIN 127-10
6	52120010	4	Nut DIN 934 M10 8.8
7	52101310	4	Bolt DIN 931 M10-35 8.8
8	53033012	3	Washer GROWER DIN 127-12
9	52101312	1	Bolt DIN 931 M10-45 8.8
10	51030012	2	Washer DIN 125-12
11	52120012	1	Nut DIN 934 M12 8.8
12	52101365	1	Bolt DIN 931 M12-60 8.8 CINCADO
13	52102359	1	Bolt DIN 933 M12-30 8.8
14	52118014	0,115	ROD DIN 975 M14 8.8
15	52120014	3	Nut DIN 934 M14 8.8
16	19517102	2	Belt
17	19610102	1	V-Front Pulley 3A
18	52101471	4	Bolt DIN 931 M16-90 8.8 CINCADO

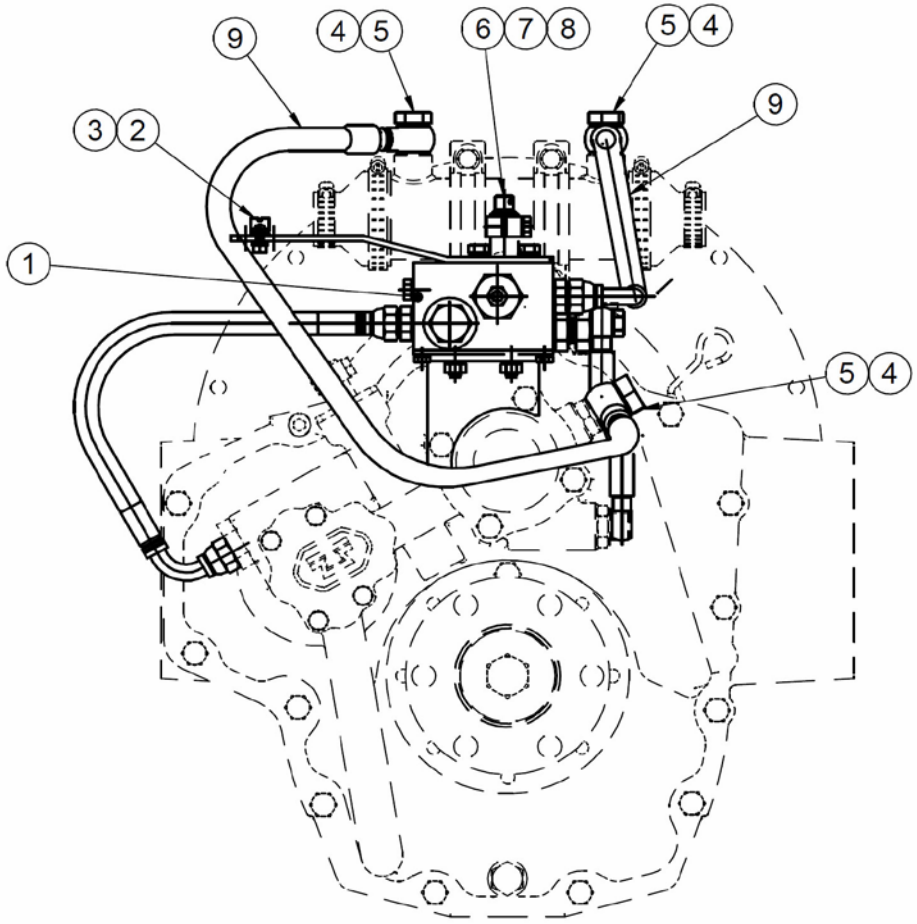


19517200			Kit Wire Earth Isolated 24V
FIG.	**REF.**	**QTY**	**DESCR.**
1	19527007.1	1	Clamping Strap
2	17417010	4	Bushing
3	19017105	1	AUTOMATIC 24 V. Bipolar
4	51031006	4	Washer DIN 9021 6
5	53033006	4	Washer GROWER DIN 127-6
6	52120006	4	Nut DIN 934 M6 8.8
7	52102158	2	Bolt DIN 933 M6-25 8.8
8	13019001	2	Clamp
9	14419023	3	Ball JOINT
10	15119015	3	CABLE Holder Ball
11	19427003.1	1	Bracket
12	19417011	4	Bushing
13	60900987	1	SENDER, Oil PRESS.
14	60900978	1	SWITCH, Oil PRESS
15	56000069	1	Washer 14-20-1,5
16	60900982	1	Temperature SENDER
17	60994982	1	TERMOSWITCH 2 Pole 113ºC
18	19527010.1	1	Alternator 28V/55A
NS	51030005	5	Washer DIN 125-5 [NS]
NS	52102104	1	Bolt DIN 933 M5-10 8.8 [NS]
NS	52102110	4	Bolt DIN 933 M5-30 8.8 CINCADO [NS]
NS	58088282	1	Clamp [NS]
NS	58088283	2	Clamp [NS]
NS	60994049	1	MASS BLACK TO Wiring START [NS]
NS	60996201.1	1	SD205/280 E. Wiring EARTH ISOLATED [NS]

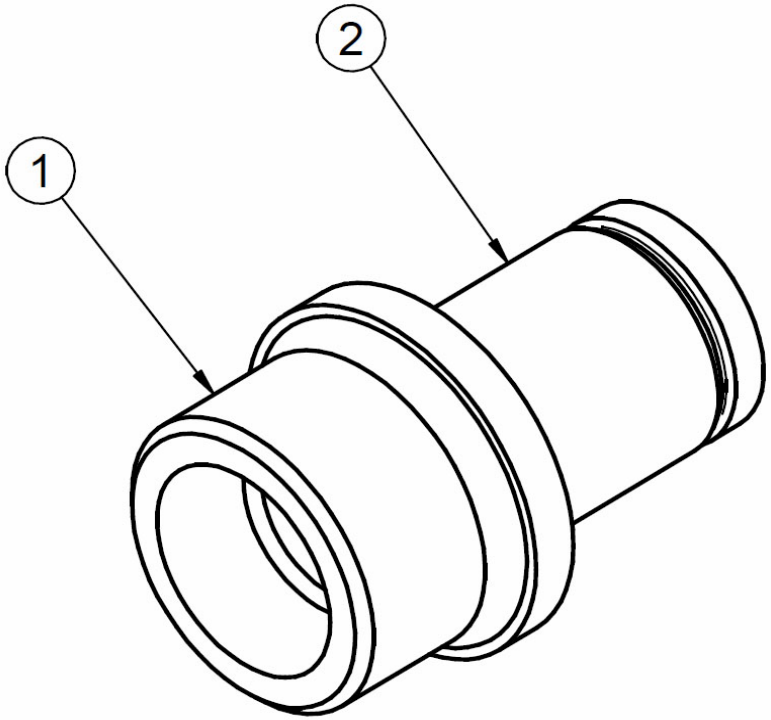


[NS] Not shown

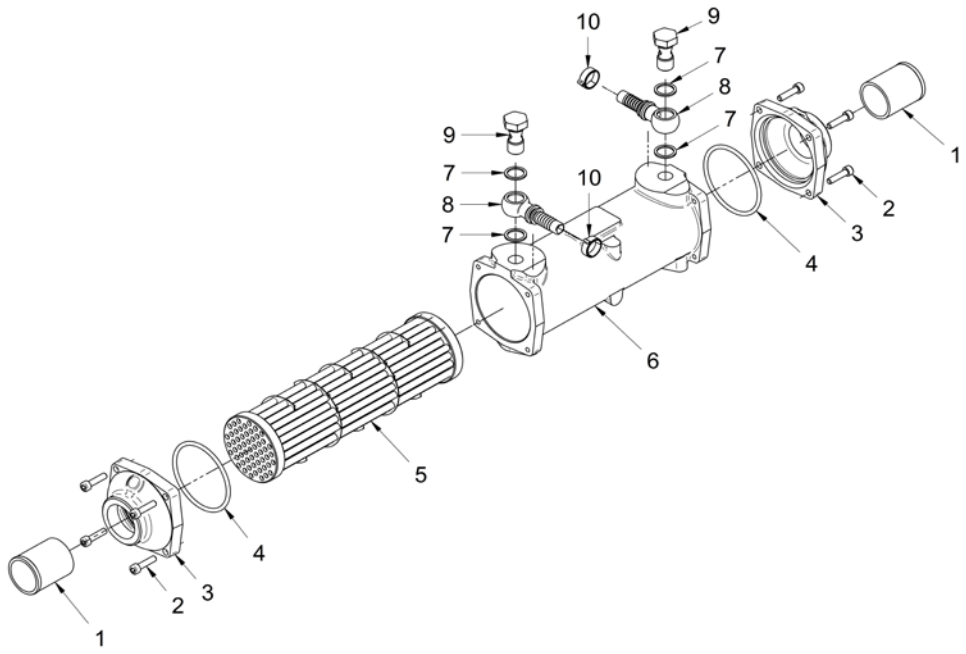
19112265			Kit Trolling Valve for TM-265
FIG.	**REF.**	**QTY**	**DESCR.**
1	24840050	1	Trolling Valve TM-265
2	24810913	1	Clamp,CABLE
3	51030005	2	Washer DIN 125-5
4	57000375	4	Washer 17-22-1,5
5	14712015	2	Bolt,Coupling pipe oil
6	14719115	2	Coupling,cable
7	51030006	2	Washer DIN 125-6
8	51051107	2	Pin DIN-94 1,6-16
9	17112024	2	Pipe, rev.oil Cooler



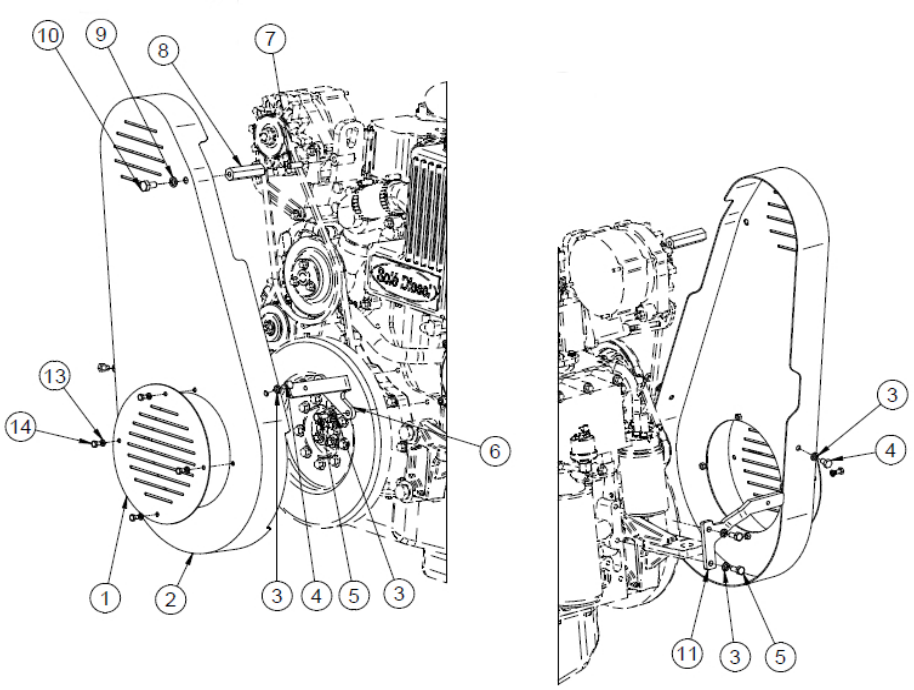
19411150			Boiler Kit (S)
FIG.	**REF.**	**QTY**	**DESCR.**
1	19422119.1	2	Screw Plug
2	60338057	2	Hose Connection 1/2" x 20



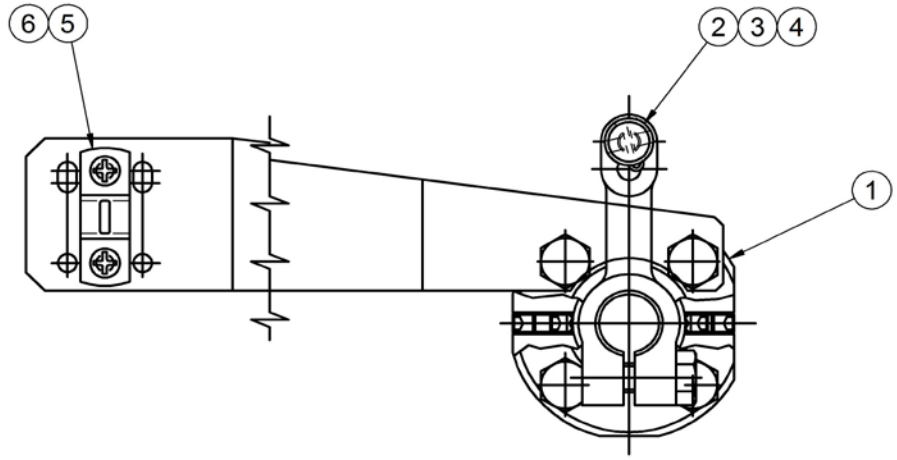
19412000			Kit Fuel Cooler SDZ-165/205/280
FIG.	**REF.**	**QTY**	**DESCR.**
1	19411048	2	Coupling
2	52103158	8	Bolt DIN 912 M6-25 8.8
3	19412003	2	Cover, water cooler R. 1 1/4 GAS
4	14712004	2	O-Ring D. 72X4
5	14712003	1	Element,oil cooler
6	14712001	1	Body,cooler
7	57000375	4	Washer 17-22-1,5
8	19412035	2	Coupling
9	14712015	2	Bolt,Coupling pipe oil
10	51086018	2	ONE EAR Clamp With INTERIOR Ring



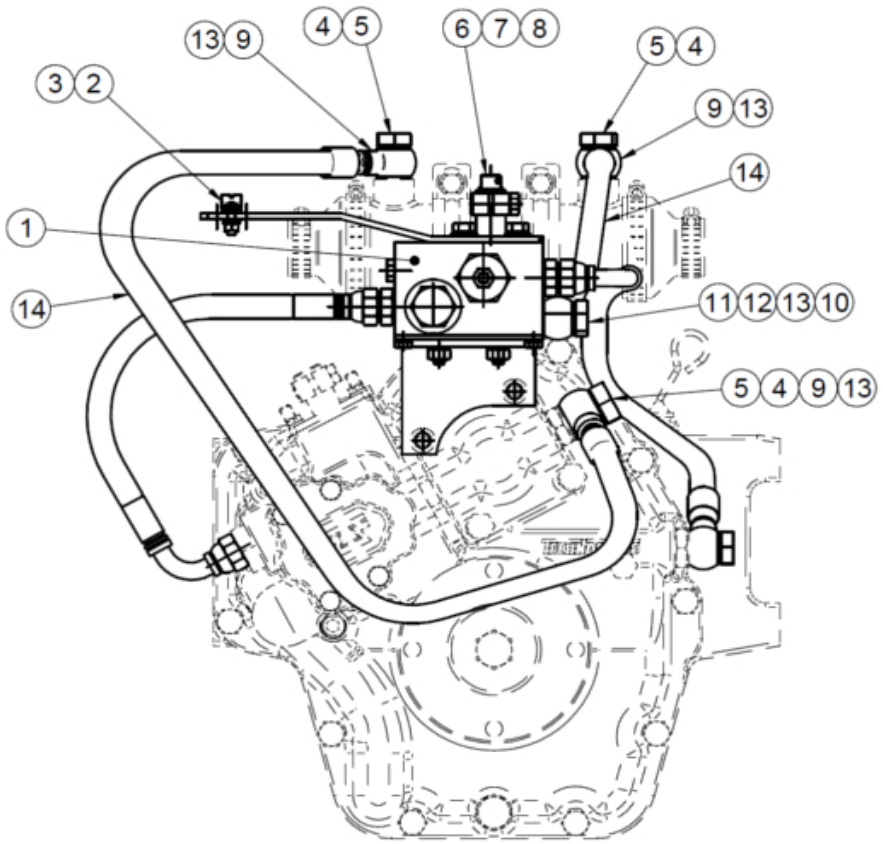
19610029			Belt Protection (S)
FIG.	**REF.**	**QTY**	**DESCR.**
1	19610029.02	1	Belt Protection, Lid
2	19610029.01	1	Belt Protección
3	53033008	6	Washer GROWER DIN 127-8
4	52102255	2	Bolt DIN 933 M8-12 8.8
5	52102257	4	Bolt DIN 933 M8-20 8.8
6	19610029.04	1	Right Bracket
7	52111309	1	ROD DIN 913 M10-30 8.8
8	19610029.05	1	Spacer M10x72
9	53033010	1	Washer GROWER DIN 127-10
10	52102307	1	Bolt DIN 933 M10-20 8.8
11	19610029.03	1	Left Bracket
13	53033006	4	Washer GROWER DIN 127-6
14	52102154	4	Bolt DIN 933 M6-10 8.8



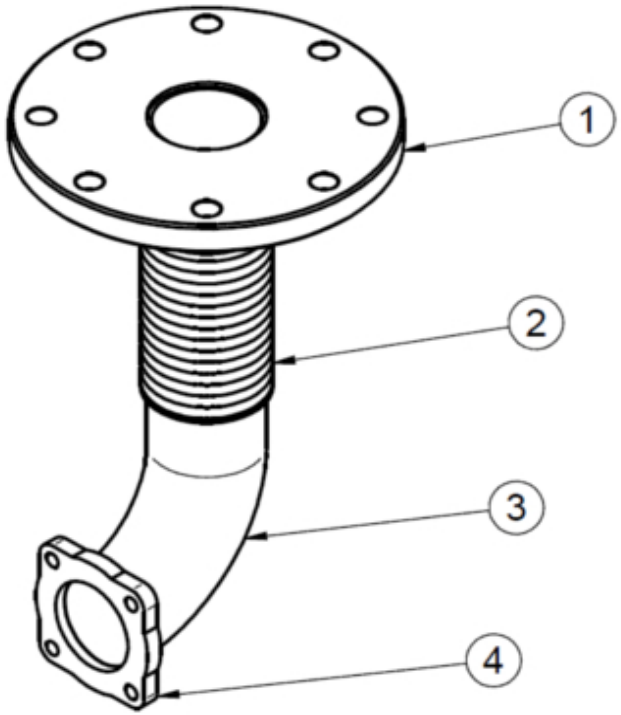
19612120			Kit Trolling Valve for TM-1200A
FIG.	**REF.**	**QTY**	**DESCR.**
1	24846050	1	Kit Trolling Valve TM-1200A
2	14719115	1	Coupling,cable
3	51030006	1	Washer DIN 125-6
4	51051107	1	Pin DIN-94 1,6-16
5	24810913	1	Clamp,CABLE
6	51030005	1	Washer DIN 125-5



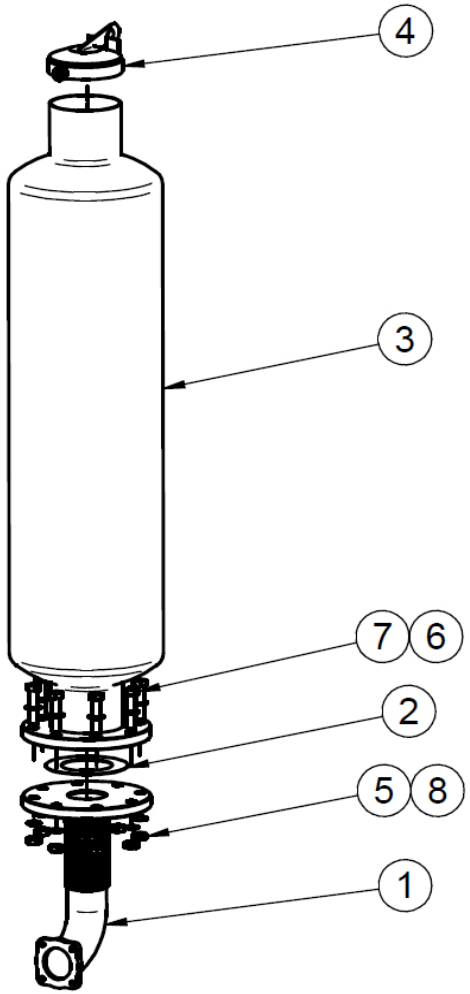
19612880			Kit Trolling Valve for TM-880A
FIG.	**REF.**	**QTY**	**DESCR.**
1	24890050	1	Trolling Valve TM-880A
2	24810913	1	Clamp,CABLE
3	51030005	2	Washer DIN 125-5
4	57000375	6	Washer 17-22-1,5
5	14712015	3	Bolt,Coupling pipe oil
6	14719115	2	Coupling,cable
7	51030006	4	Washer DIN 125-6
8	51051107	2	Pin DIN-94 1,6-16
9	14712035	3	Coupling,ball pipe oil
10	18012013	1	COLLAR,union
11	18012012	1	Bolt,eye
12	56000083	2	Washer 21-26-1,5
13	14712031	4	Retainer
14	M84501019	0,9	LOW Pressure Hose D. 10-19



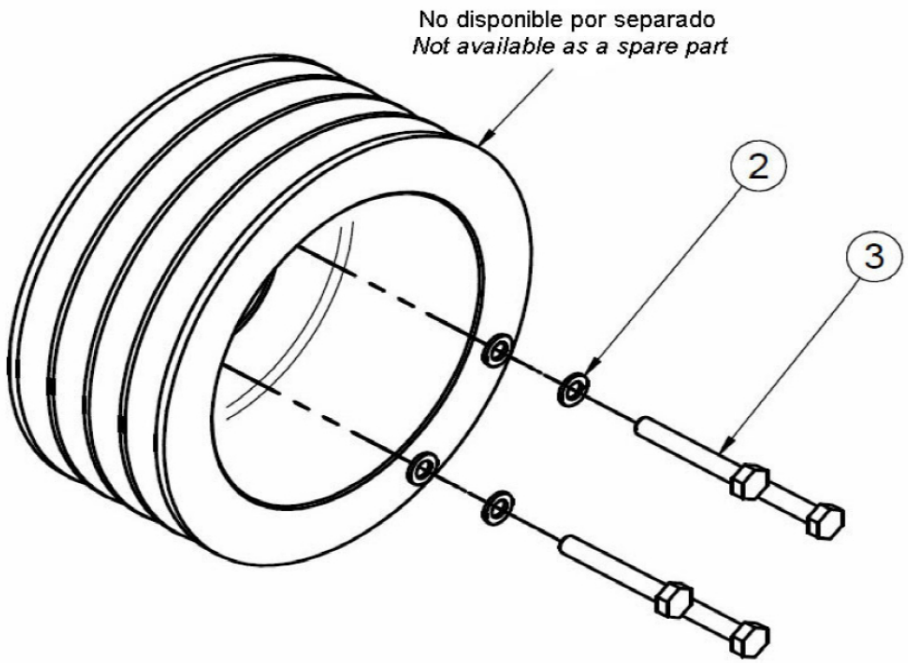
19613116			Kit Dry Exhaust With Flexible Pipe
FIG.	**REF.**	**QTY**	**DESCR.**
1	19613116.1	1	Flange
2	19213017	1	Expansion, compensator
3	51066065	1	KNEE 90 FIG. 6002/5 2 1/2"
4	19513115.1	1	Adaptor



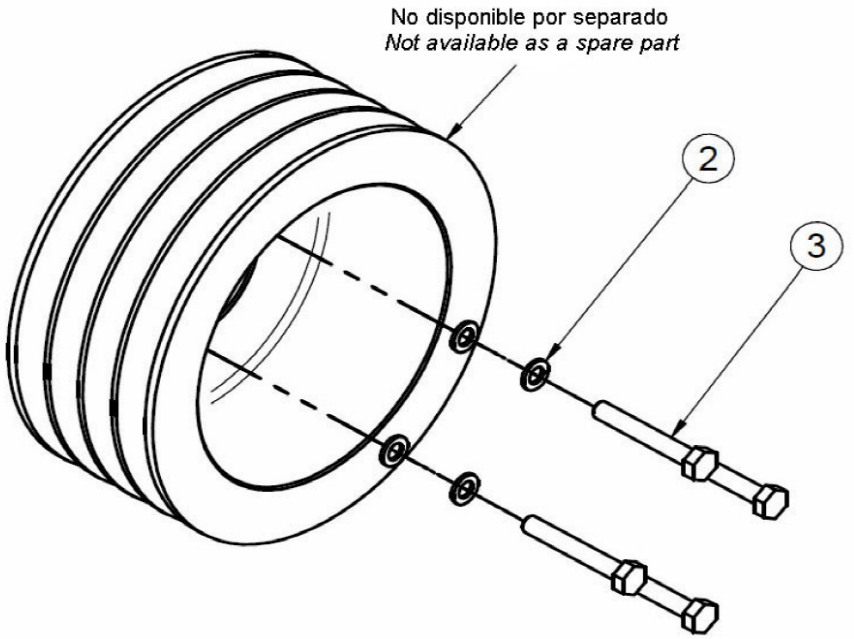
19613118			Kit Dry Exhaust Flexible Pipe & Silencer
FIG.	**REF.**	**QTY**	**DESCR.**
1	19613116	1	Kit Dry Exhaust With Flexible Pipe
2	19613020	1	Joint GASKET
3	19613018	1	Exhaust Muffler
4	19613019	1	RAINCover
5	52120016	8	Nut DIN 934 M16 8.8
6	51030016	8	Washer DIN 125-16
7	52101467	8	Bolt DIN 931 M16-70 8.8
8	53033016C	8	Washer



19510104			Pulley 4A
FIG.	**REF.**	**QTY**	**DESCR.**
1	51035016	4	Washer DIN 433 M16
2	52203475	4	Bolt DIN 912 M16-1,5-120 12.9

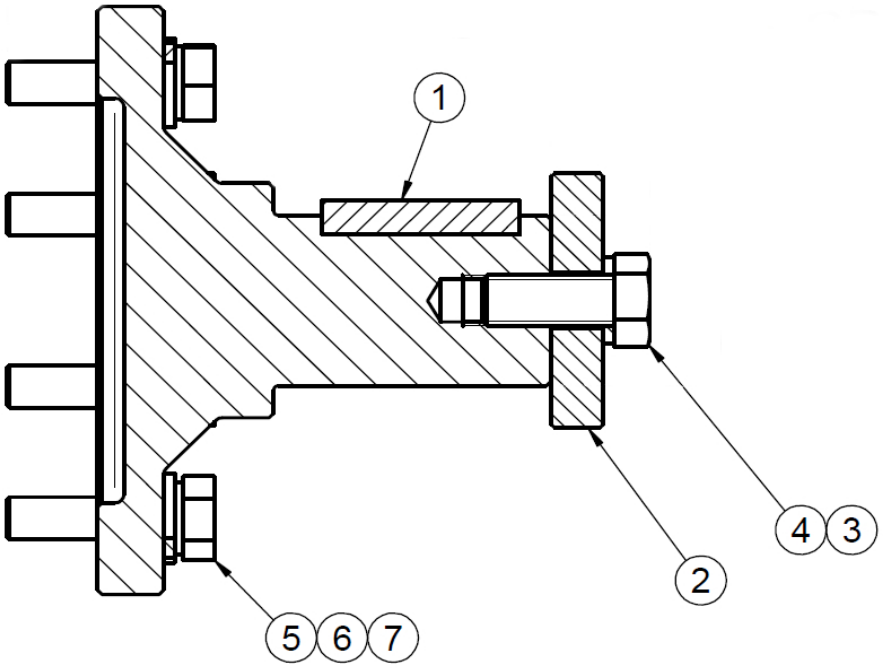


19510105			Pulley 5A
FIG.	**REF.**	**QTY**	**DESCR.**
1	51035016	4	Washer DIN 433 M16
2	52203475	4	Bolt DIN 912 M16-1,5-120 12.9

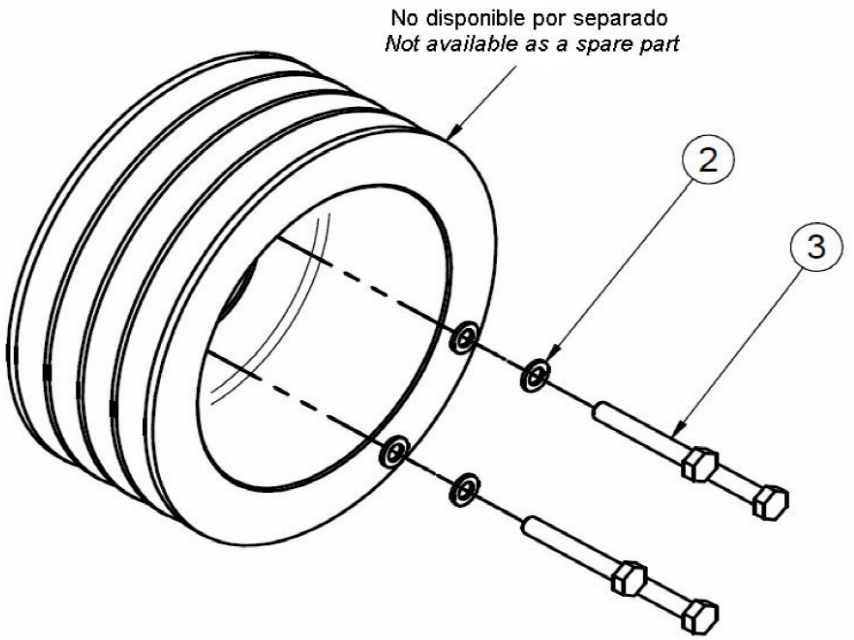


Front Power Take Off

19610022			Kit Power Take-off Shaft D40
FIG.	**REF.**	**QTY**	**DESCR.**
1	40040086	1	KEY
2	60500063	1	Washer
3	53033012	1	Washer GROWER DIN 127-12
4	52102359	1	Bolt DIN 933 M12-30 8.8
5	53101311	9	Bolt DIN 931 M10-40 12.9
6	53033010	9	Washer GROWER DIN 127-10
7	51030010	9	Washer DIN 125-10

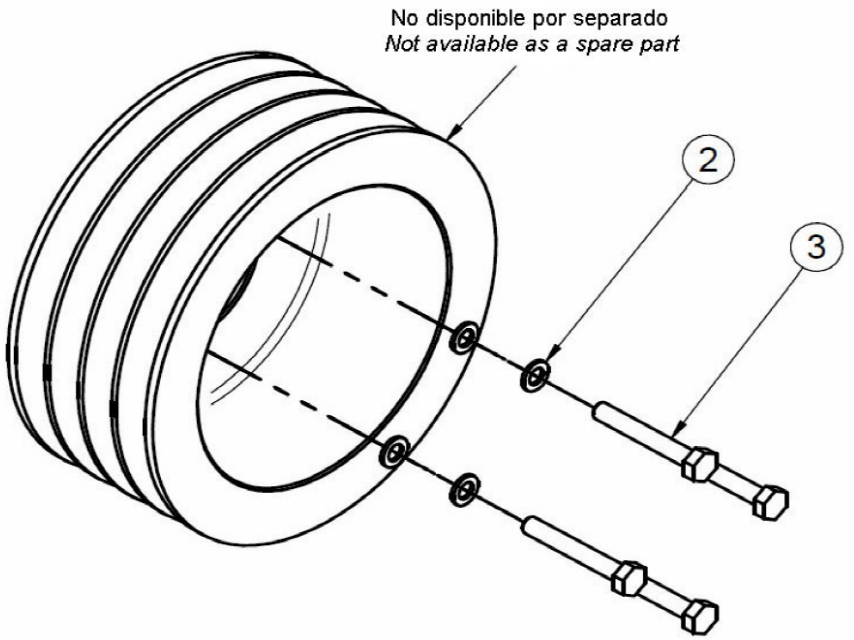


19610102			V-Front Pulley 3A
FIG.	**REF.**	**QTY**	**DESCR.**
1	51035016	4	Washer DIN 433 M16
2	52203475	4	Bolt DIN 912 M16-1,5-120 12.9

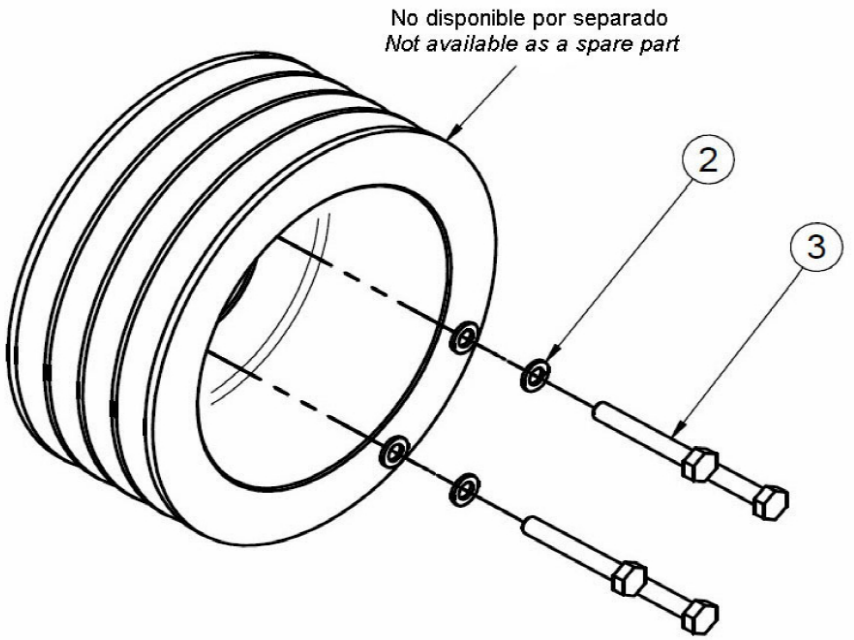


Front Power Take Off

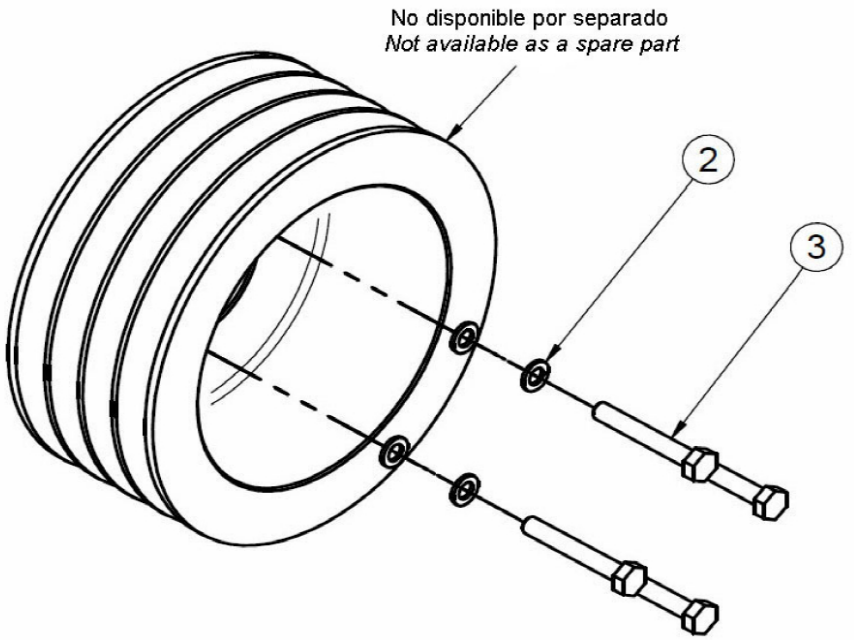
19610103			V-Front Pulley 3B
FIG.	**REF.**	**QTY**	**DESCR.**
1	51035016	4	Washer DIN 433 M16
2	52203475	4	Bolt DIN 912 M16-1,5-120 12.9



19610104			Pulley 4B
FIG.	**REF.**	**QTY**	**DESCR.**
1	51035016	4	Washer DIN 433 M16
2	52203475	4	Bolt DIN 912 M16-1,5-120 12.9

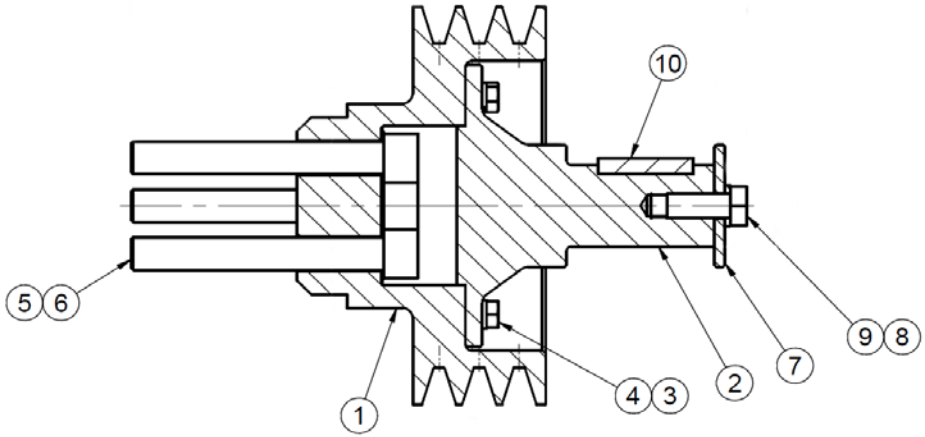


19610105			Pulley 5B
FIG.	**REF.**	**QTY**	**DESCR.**
1	51035016	4	Washer DIN 433 M16
2	52203475	4	Bolt DIN 912 M16-1,5-120 12.9



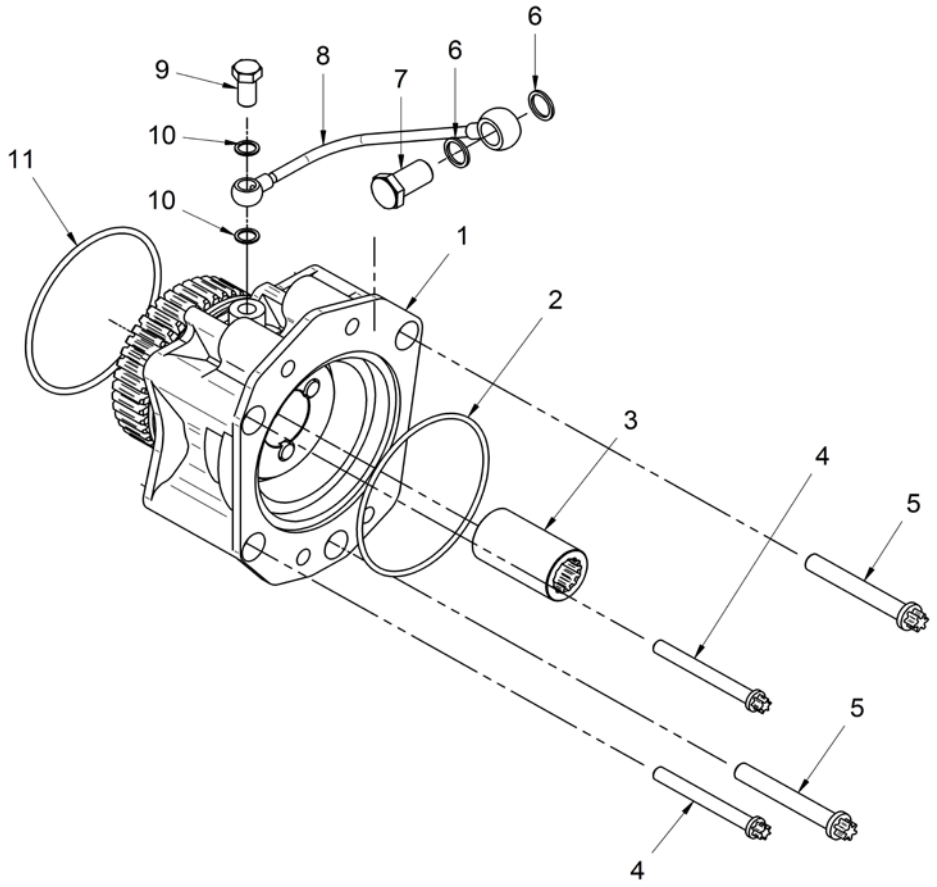
Front Power Take Off

19610125			Kit Power Take-off Shaft D40 & Pulley 3B
FIG.	**REF.**	**QTY**	**DESCR.**
1	19610103	1	V-Front Pulley 3B
2	19610008	1	Power Take-off Shaft, D40MM
3	53033008	8	Washer GROWER DIN 127-8
4	52102258	8	Bolt DIN 933 M8-25 8.8
7	60500063	1	Washer
8	53033012	1	Washer GROWER DIN 127-12
9	52102359	1	Bolt DIN 933 M12-30 8.8
10	40040086	1	KEY



Kit PTO Deutz

19420310			Kit Power Take-off Hidr.Pump Max. 50 KW
FIG.	**REF.**	**QTY**	**DESCR.**
1	19420315	1	Pump Coupling
2	19420314	1	Coupling Joint
3	19520122	1	O-Ring
4	19420313	1	O-Ring
5	19421016	2	SeallNG Ring
6	19424066	1	Screw
7	19520130	1	Oil Pipe
8	19424087	2	SeallNG Ring
9	19520123	2	Screw
10	19520126	2	Screw
11	19421091	1	Screw
NS	19420113	1	LUBRICANT [NS]
NS	19420311	1	Plug [NS]



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