

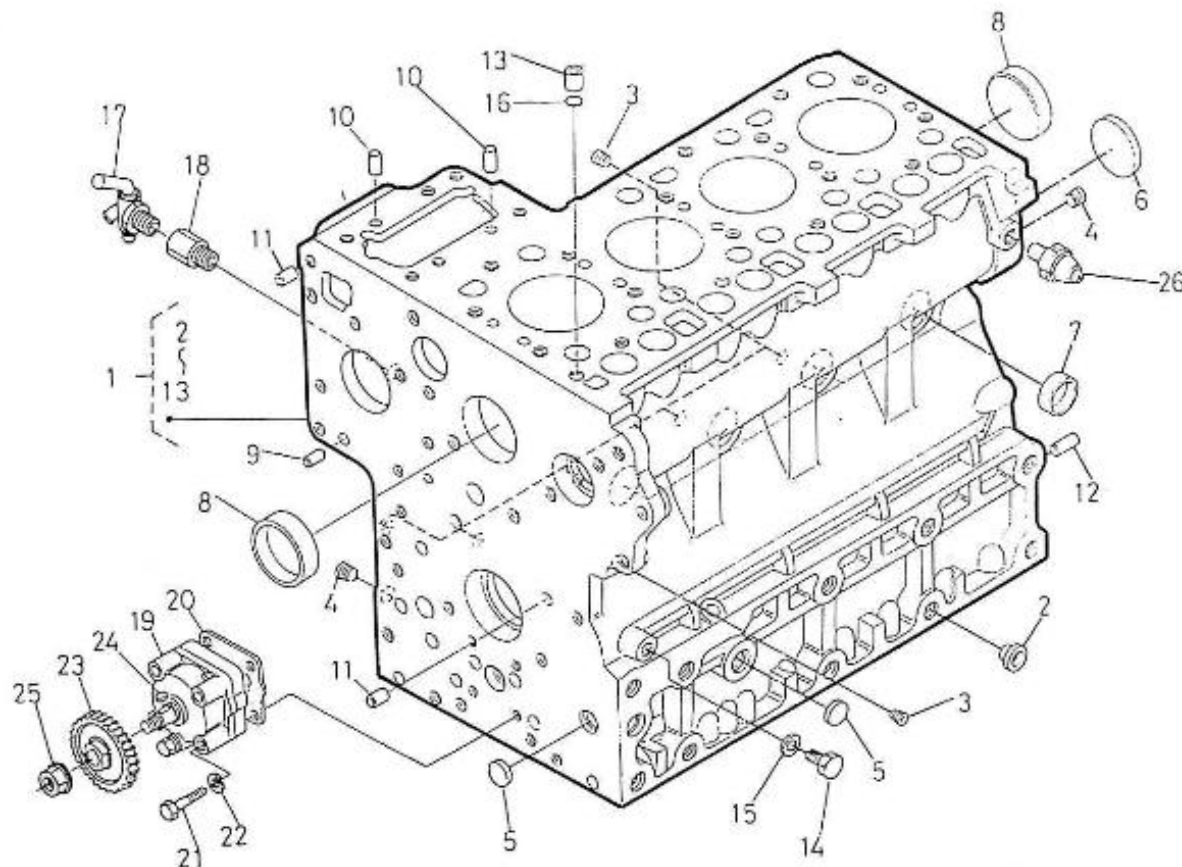
SPARE PARTS CATALOGUE

Brand: NANNI DIESEL

Model: Moteur 4.220HE

Version: Standard

Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970307294	COMP.CRANKCASE	1	JUSQU'AU WY9999
Version: Standard	1	970313168	COMP.CRANKCASE	1	A PARTIR DU N° XA0001
Subassembly: Crank case / Cylinders	2	970301901	PLUG	2	



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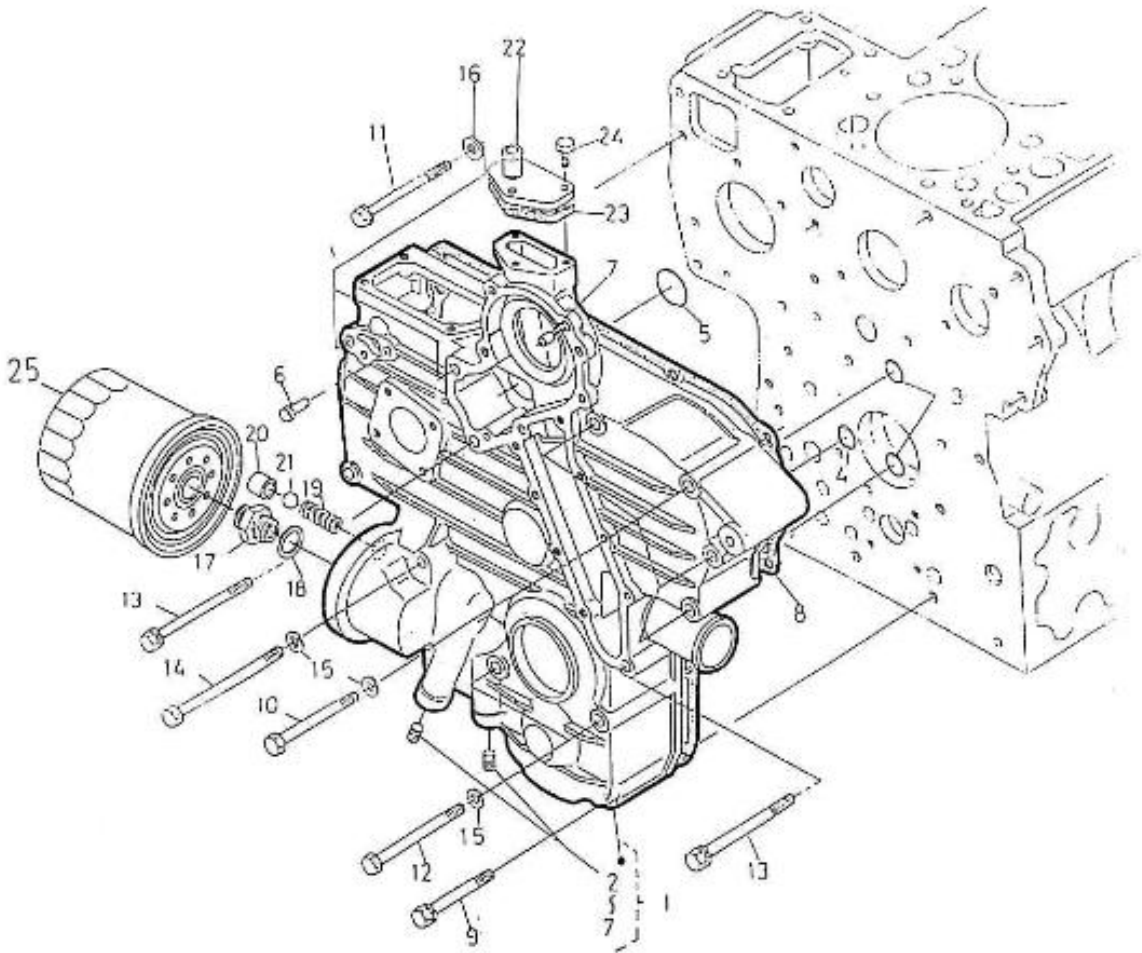
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Timing case



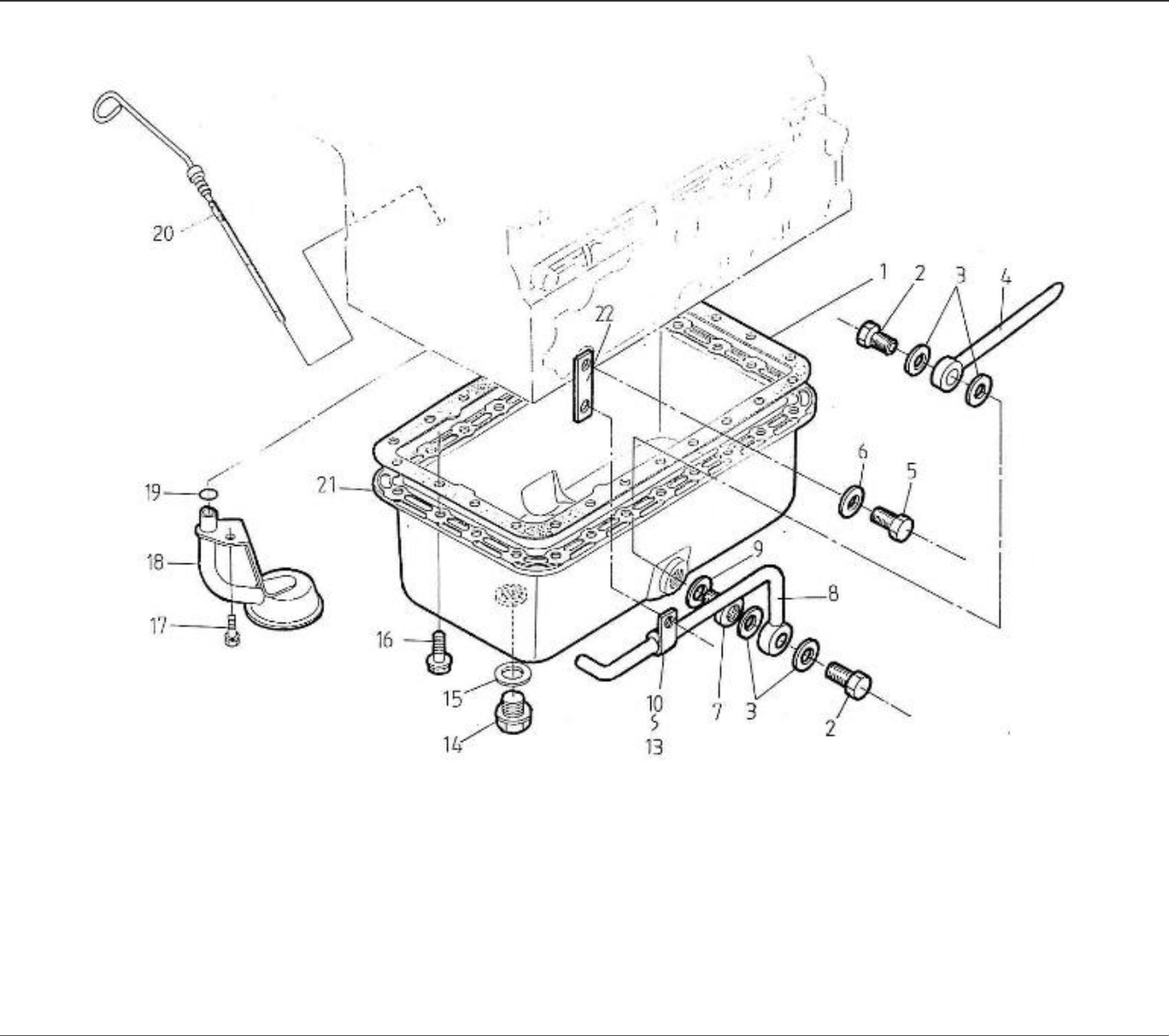
N.	Item	Description	Qty	Notes
1	970307304	ASSY CASE,GEAR	1	
2	970140202	PLUG, SOCK	2	
3	970301922	O-RING	2	
4	970302696	O-RING	1	
5	970301923	O-RING	1	
6	970490204	PIN,TIMING COVER	1	
7	970301908	PIN,CYLINDRICAL	2	
8	970307305	GASKET,GEAR CASE NA	1	
9	970301926	BOLT,M 8X 60	2	
10	970301927	BOLT,M 8X 70	5	
11	970301280	BOLT,HEX M 8X 90	2	
12	970301928	BOLT,M 8X 80	24	
13	970301929	BOLT	2	
14	970301930	BOLT,M 8X 95	2	
15	970490904	WASHER,SPRING D 8	13	
16	970301933	WASHER,PLAIN D 8	1	
17	970302072	NIPPLE	1	
18	970302073	GASKET,RING	1	
19	970302074	SPRING	1	
20	970302075	SEAT,VALVE	1	
21	970302076	BEARING,BALL	1	
22	970301931	FLANGE,WATER RETURN	1	
23	970301932	GASKET,FLANGE W/RETURN	1	
24	970491536	BOLT,M 6X 20	3	
25	970603003	FILTER,ELEMENT OIL 4.180/90	1	

Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Oil pan



N.	Item	Description	Qty	Notes
1	970312957	GASKET,OIL PAN	1	
2	970432515	BOLT,BANJO M14X1,5	2	
3	970300306	GASKET,RING D14	4	
4	970307428	+++ PLUS DIFFUSE ++++++ TUBE VIDANGE (INT)	1	
5	970300044	BOLT,HEX M10X1,25X 25	1	
6	970119136	WASHER,SPRING D10	1	
7	970307429	NIPPLE	1	
8	970307431	+++ PLUS DIFFUSE ++++++ TUYAU EXT 4.220HE	1	
9	970307489	GASKET	1	
10	970307264	CLAMP	1	
11	970304025	BOLT,HEXM 6X 10 A2	1	
12	970635460	NUT,M 6	1	
13	970119149	WASHER, SPRING D 6	1	
14	970307907	PLUG,DRAIN	1	
15	970307489	GASKET	1	
16	970301949	BOLT	24	
17	970490919	BOLT,M 8X 16	1	
18	970307426	FILTER,OIL 1	1	
19	970301951	O-RING	1	
20	970307295	GAUGE,OIL	1	
21	970307425	COMP.OIL PAN	1	
22	970307430	SUPPORT,PIPE CLAMP	1	

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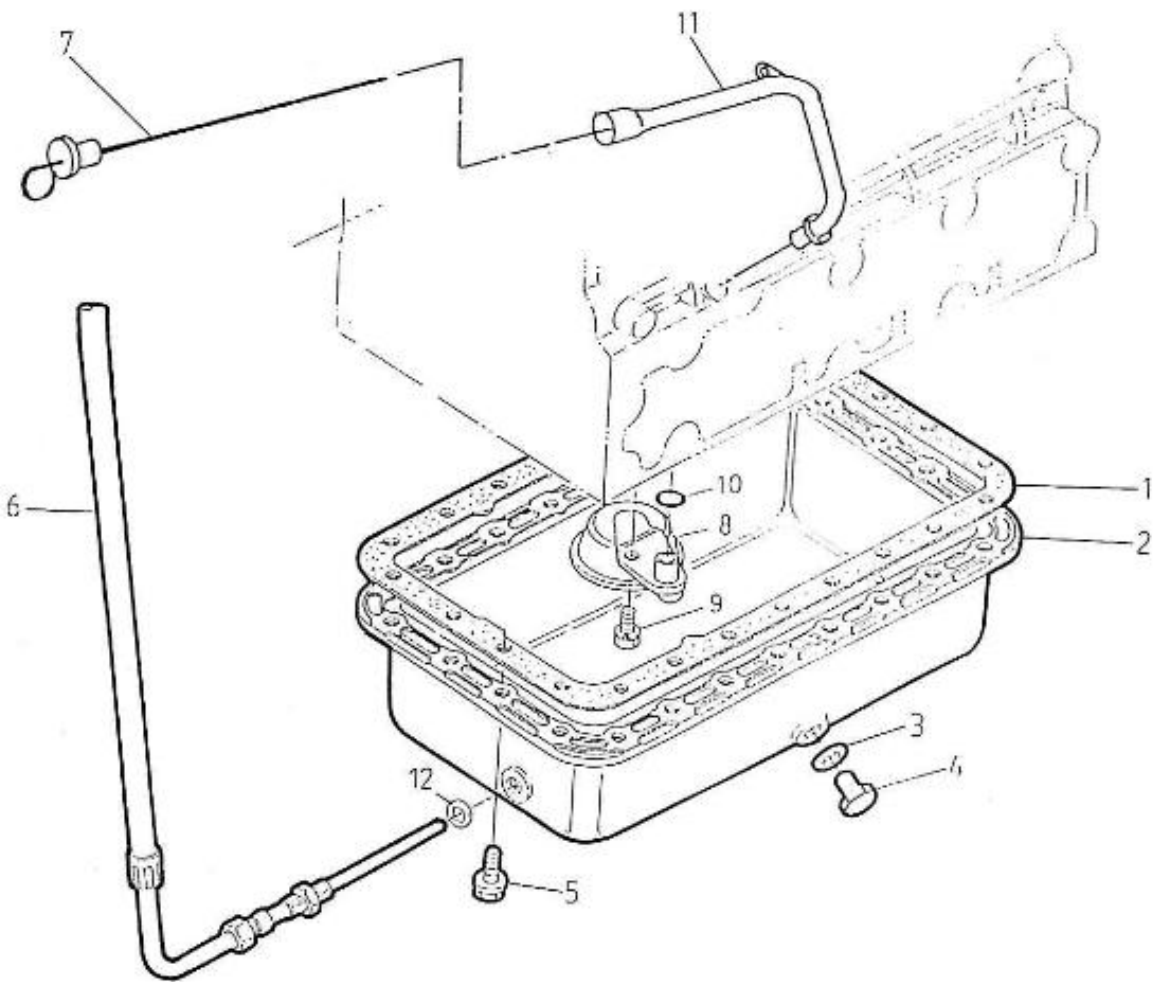
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Oil pan

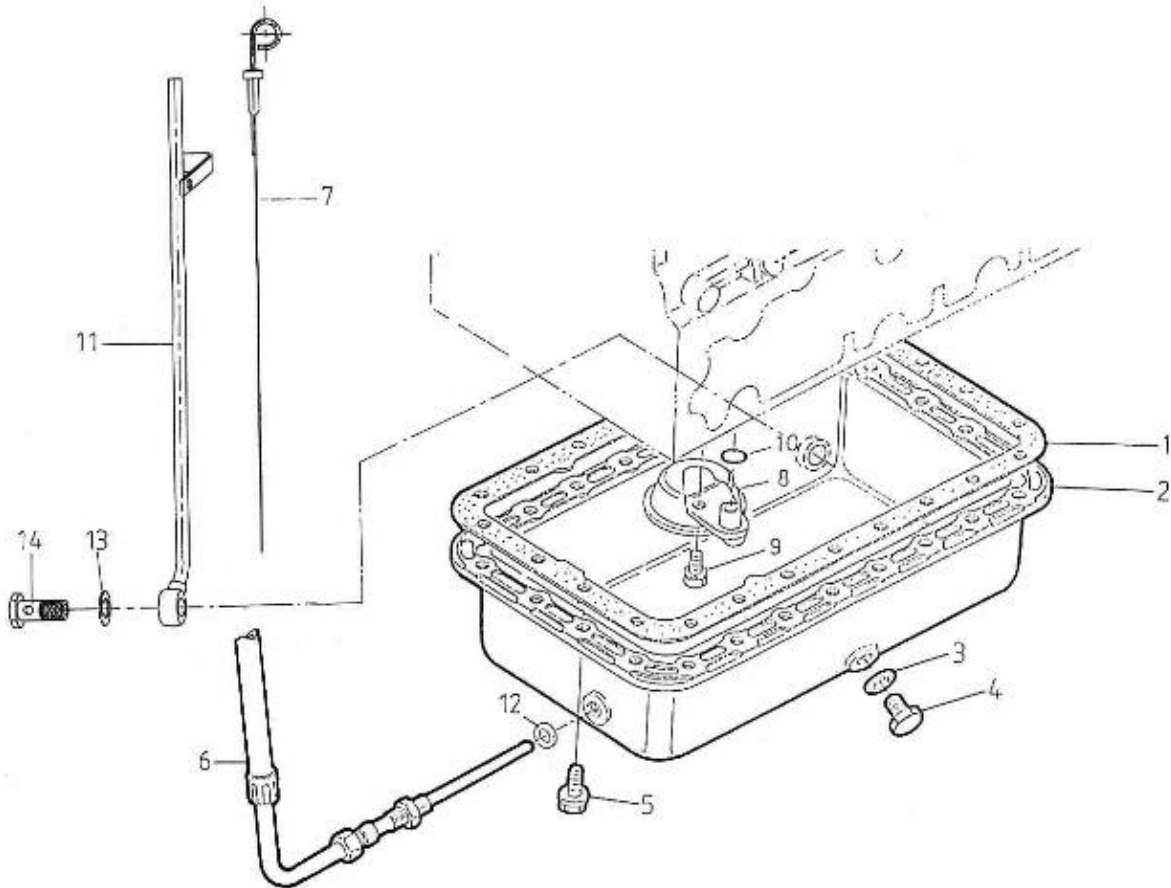
N.	Item	Description	Qty	Notes
1	970312957	GASKET,OIL PAN	1	
2	970301947	PAN,OIL 4.190	1	
3	970432132	GASKET,RING	1	
4	970490127	PLUG, OIL DRAIN	1	
5	970301949	BOLT	24	
6	970304102	DRAIN OIL PIPE	1	
7	970302637	DIPSTICK	1	
8	970301950	FILTER,OIL PAN 4.190	1	
9	970490919	BOLT,M 8X 16	1	
10	970301951	O-RING	1	
11	970302595	GUIDE,TUBE OIL DIPSTICK 6.280H	1	
12	970300199	GASKET,RING D16	1	



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Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970312957	GASKET,OIL PAN	1	
Version: Standard	2	970307731	COMP.OIL PAN	1	
Subassembly: Oil pan	3	970432132	GASKET,RING	1	
	4	970490127	PLUG, OIL DRAIN	1	
	5	970301949	BOLT	24	
	6	970304102	DRAIN OIL PIPE	1	
	7	970302715	DIPSTICK,OIL LEVEL 4.150	1	
	8	970301950	FILTER,OIL PAN 4.190	1	
	9	970490919	BOLT,M 8X 16	1	
	10	970301951	O-RING	1	
	11	970307730	GUIDE,TUBE OIL DIPSTICK	1	
	12	970300199	GASKET,RING D16	1	
	13	970300364	GASKET,RING D18	1	
	14	970307728	BOLT,BANJO	1	



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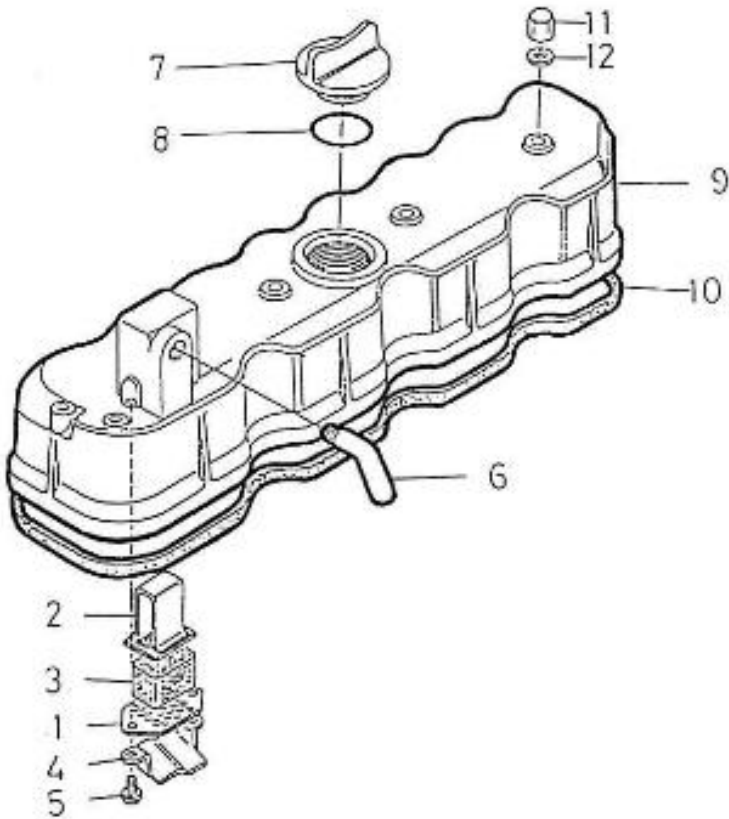
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Cylinder head cover

N.	Item	Description	Qty	Notes
1	970301990	PLATE,BREATHER ELEMENT N01	1	
2	970490302	HOUSING,BREATHER ELEMENT	1	
3	970490305	FILTER,BREATHER ELEMENT	1	
4	970301991	SHIELD,OIL BREATHER	1	
5	970301992	SCREW	2	
6	970301993	PIPE,BREATHER	1	
7	970490510	CAP,FILLING OIL	1	
8	970490511	O-RING	1	
9	970307307	COVER,CYL.HEAD	1	
10	970301995	GASKET,COVER CYL:HEAD 4.190	1	
11	970301996	NUT,CAP	4	
12	970491131	WASHER,SEAL	4	



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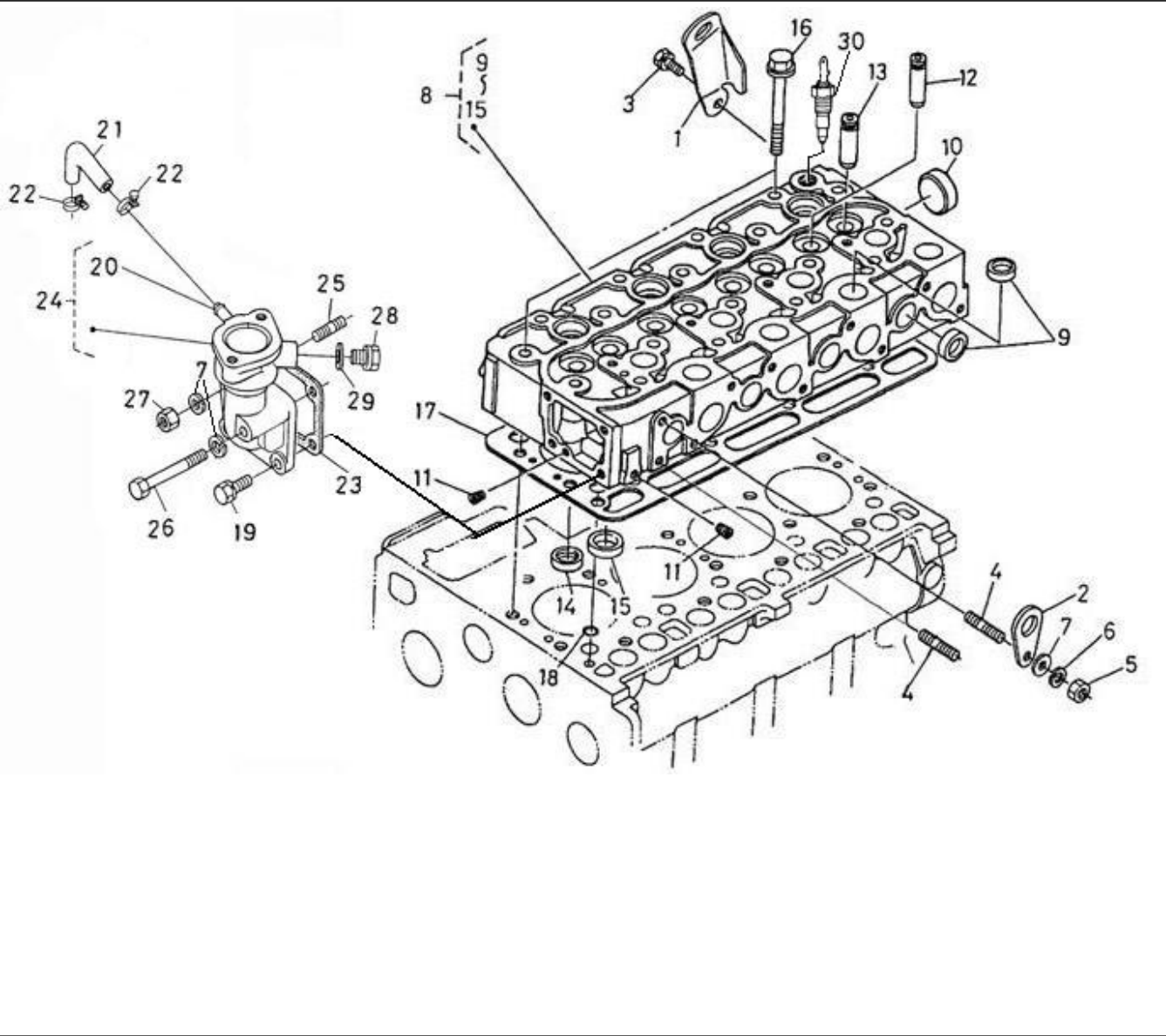
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Cylinder head



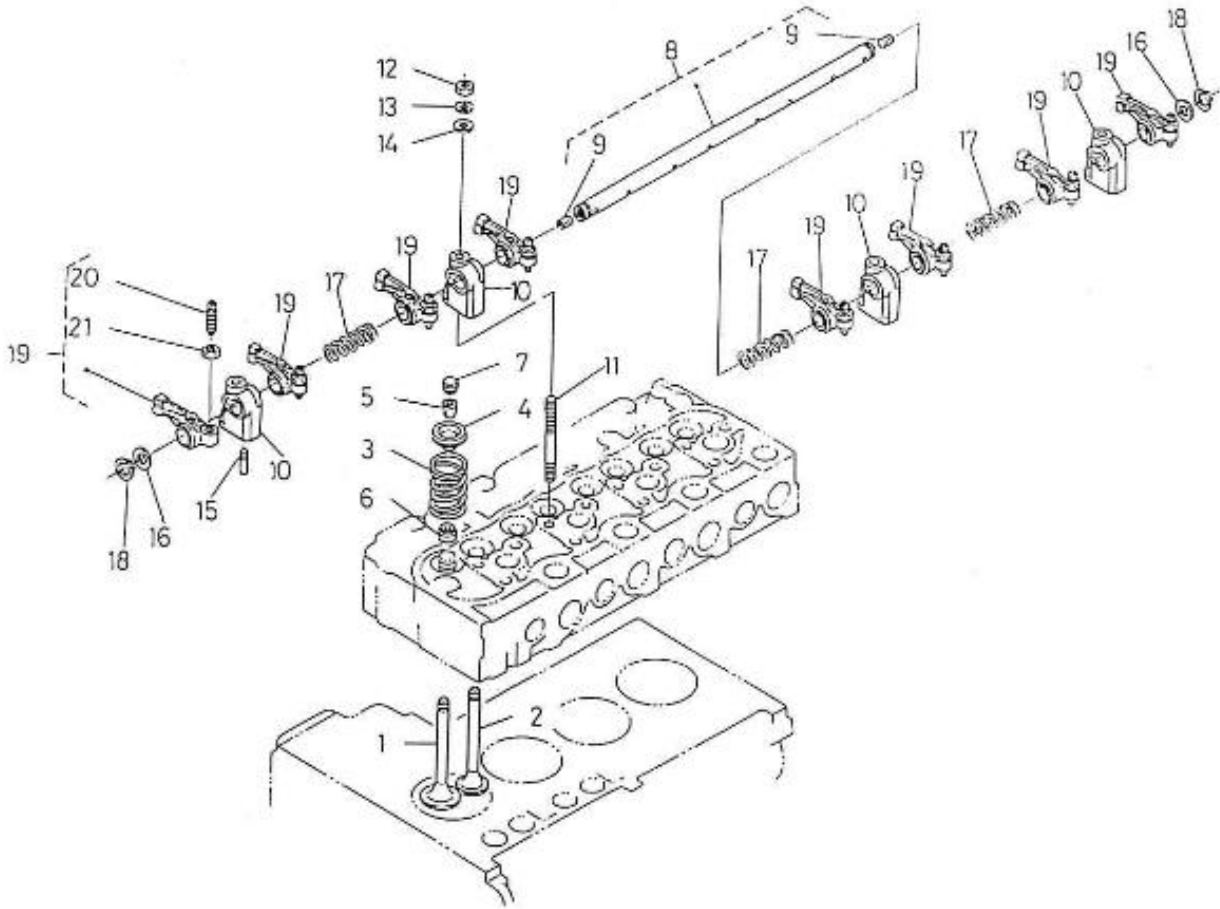
N.	Item	Description	Qty	Notes
0	970304054	TEMPERATURE SWITCH 1/8 1P 97°C	1	
1	970307296	HOOK,ENGINE	1	
2	970302147	HOOK,ENGINE 4.190	1	
3	970490919	BOLT,M 8X 16	1	
4	970301935	STUD	2	
5	970027322	NUT,M 8	2	
6	970119138	WASHER,SPRING D 8	2	
7	970119138	WASHER,SPRING D 8	2	
8	970307302	COMP.CYLINDER HEAD	1	
9	970301937	CAP,FREEZE	12	
10	970301938	CAP,FREEZE	1	
11	970490107	PLUG,SOCK	2	
12	970301939	GUIDE,VALVE INTAKE 4.190	4	
13	970301940	GUIDE,VALVE EXHAUST	4	
14	970313182	SIEGE SOUPAPE ADMISSION 4.220	4	
15	970313183	SIEGE SOUPAPE ECHAPPEMENT 4.220	4	
16	970307298	BOLT,CYLINDER HEAD	18	
17	970307299	GASKET,CYL.HEAD NA	1	
18	970490116	O-RING	1	
19	970492138	BOLT,M 8X 22	2	
20	970307535	HOSE	1	
21	970302120	PIPE,WATER RETURN 2	1	
22	970302121	CLAMP,HOSE	2	
23	970302124	GASKET,WATER FLANGE	1	
24	970307511	HOUSING, THERMOSTAT	1	
25	970302088	STUD,M 8X 22	1	
26	970300193	BOLT,HEX M 8X 70	1	
27	970490903	NUT,M 8	1	
28	970307896	PLUG	1	
29	970312987	WASHER,WITH RUBBER	1	

Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Valves & Springs



N.	Item	Description	Qty	Notes
1	970307772	VALVE,INLET	4	
2	970307400	VALVE,EXHAUST	4	
3	970302005	SPRING,VALVE	8	
4	970302006	RETAINER,VALVE SPRING	8	
5	970302007	COLLET,VALVE SPRING	8	
6	970302008	SEAL,VALVE STEM	8	
7	970302009	CAP,VALVE	8	
8	970302010	SHAFT,ROCKER ARM 4.190	1	
9	970302011	SCREW,SET	2	
10	970302012	BRACKET,ROCKER ARM	4	
11	970302013	STUD	4	
12	970490903	NUT,M 8	4	
13	970490904	WASHER,SPRING D 8	4	
14	970301933	WASHER,PLAIN D 8	4	
15	970302014	SCREW,SET	1	
16	970302015	WASHER	2	
17	970302016	SPRING,ROCKER ARM	3	
18	970302017	CIR-CLIP,EXTERNAL	2	
19	970307402	ASSY ROCKER ARM	8	
20	970302019	SCREW,ADJUSTING	8	
21	970302021	NUT	8	

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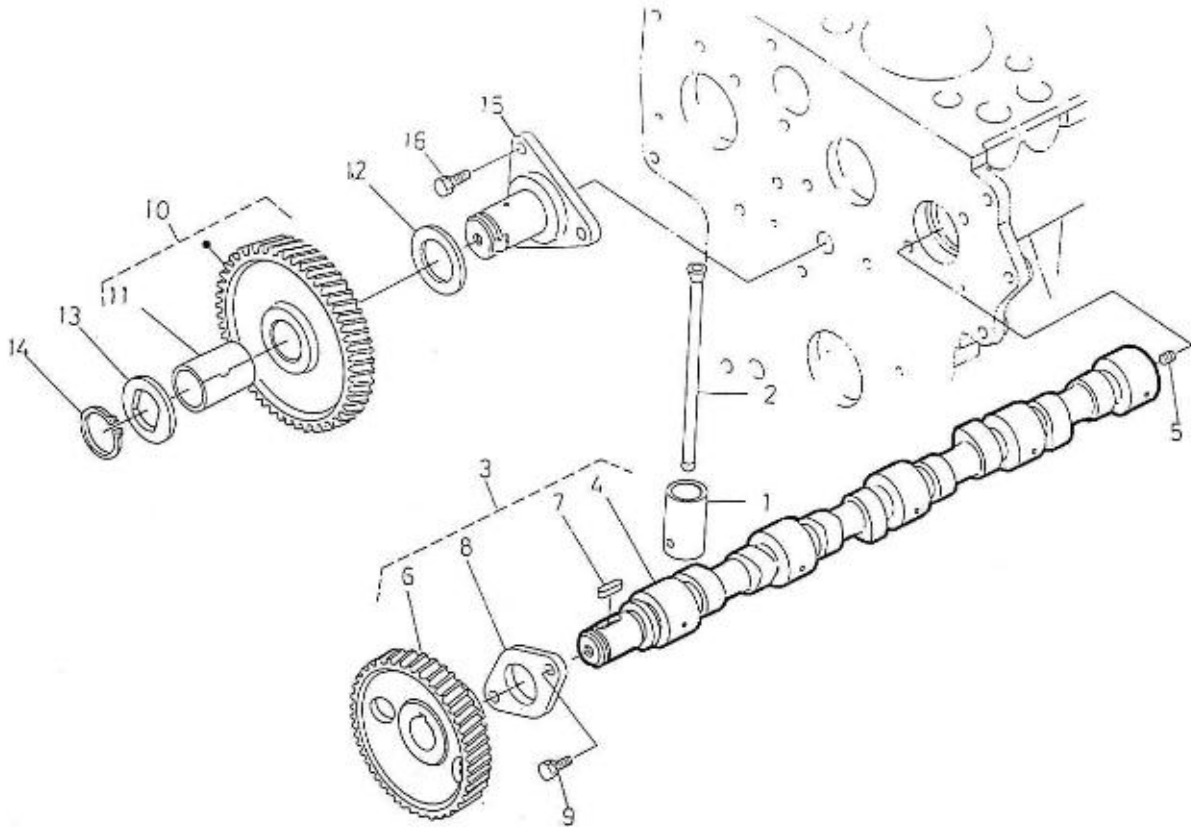
Brand: NanniDiesel

Model: Moteur 4.220HE

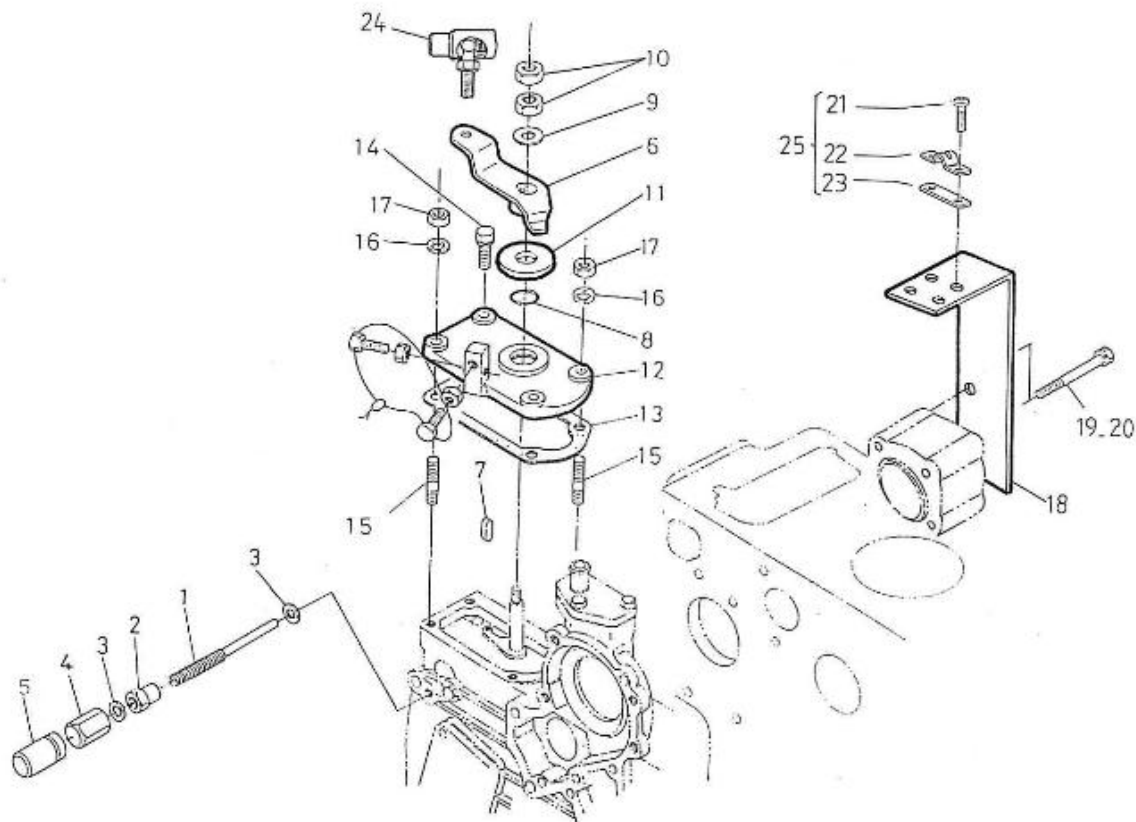
Version: Standard

Subassembly: Camshaft

N.	Item	Description	Qty	Notes
1	970307317	TAPPET	8	
2	970307318	ROD,PUSH	8	
3	970307319	ASSY CAMSHAFT	1	
4	970307320	CAMSHAFT	1	
5	970302043	SCREW,SET	1	
6	970302044	GEAR,CAMSHAFT	1	
7	970301966	KEY,FEATHER	1	
8	970302045	STOPPER,CAMSHAFT	1	
9	970491134	BOLT,M 8X 18	2	
10	970307321	COMP.GEAR,IDLE	1	
11	970307322	BUSH,IDLE GEAR	1	
12	970307323	COLLAR	1	
13	970307324	COLLAR	1	
14	970307325	CIR-CLIP,EXTERNAL	1	
15	970307326	SHAFT,IDLE GEAR	1	
16	970491134	BOLT,M 8X 18	3	



Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970302022	SCREW,ADJUSTING	1	
Version: Standard	2	970140402	NUT	1	
Subassembly: Speed control	3	970150403	RING,SEAL	2	
	4	970140504	NUT, CAP M8	1	
	5	970302411	CAP,NUT	1	
	6	970302023	LEVER,SPEED CONTROL	1	
	7	970143118	KEY,FEATHER	1	
	8	970302024	O-RING	1	
	9	970302025	WASHER,PLAIN D 8	1	
	10	970302026	NUT,M 8	2	
	11	970302027	SPACER,GOVERNOR	1	
	12	970302028	COVER,SPEED CONTROL 4.190	1	
	13	970302029	GASKET,COVER SPEED CONTROL	1	
	14	970491536	BOLT,M 6X 20	2	
	15	970490224	STUD	2	
	16	970119149	WASHER, SPRING D 6	2	
	17	970151133	NUT,M 6	2	
	18	970307403	SUPPORT,THROTTLE	1	
	19	970300193	BOLT,HEX M 8X 70	2	
	20	970119138	WASHER,SPRING D 8	2	
	21	970300317	BOLT,HEX M 5X 16	2	
	22	970300315	CLAMP,CABLE	1	
	23	970300316	PLATE,CLAMP	1	
	24	970830124	JOINT	1	
	25	970835020	CLAMP	1	



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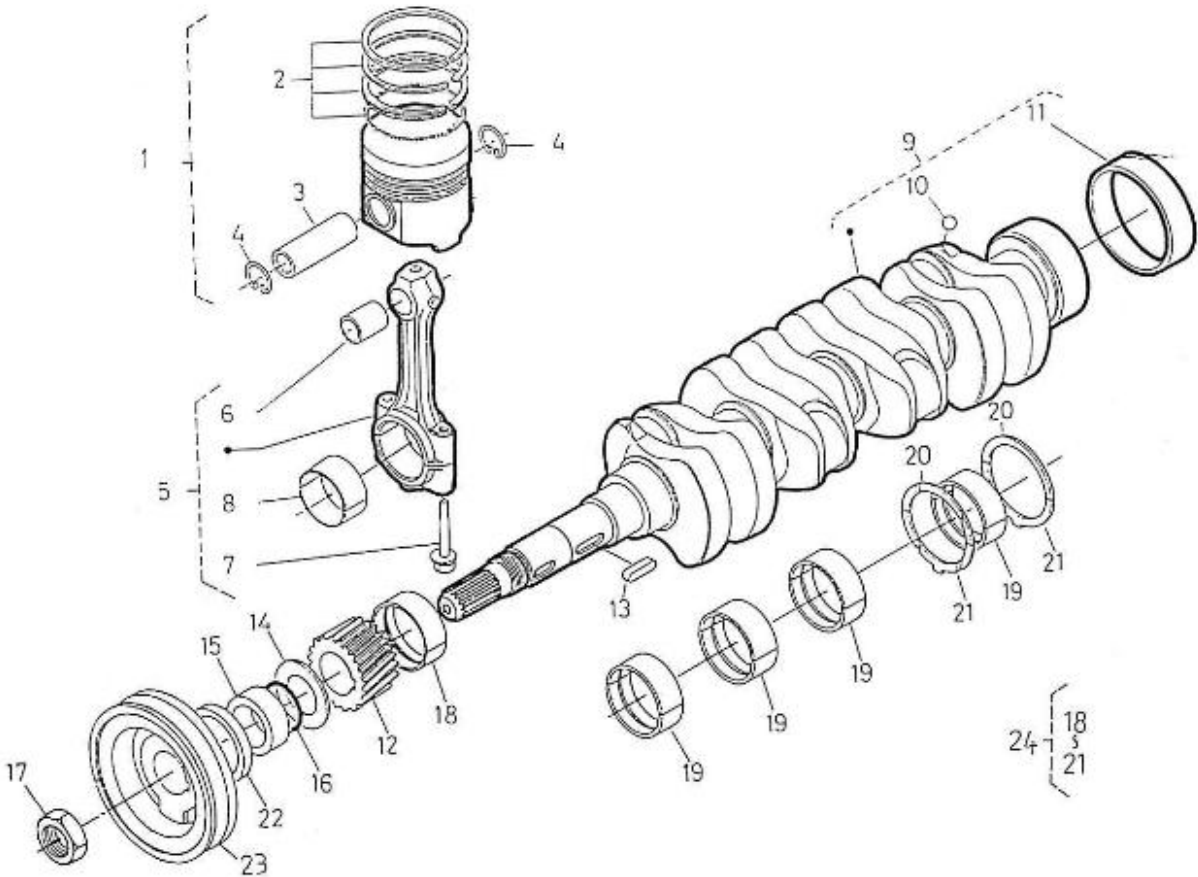
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Crankshaft pistons



N.	Item	Description	Qty	Notes
1	970307328	PISTON 05	4	
1	970307528	PISTON	4	
2	970307329	ASSY RING,PISTON	4	
2	970307330	ASSY RING,PISTON 05	4	
3	970307331	PIN,PISTON	4	
4	970307332	CLIP,PISTON PIN	8	
5	970307333	ASSY ROD,CONNECTING	4	
6	970307334	BUSH,PISTON PIN	4	
7	970301934	BOLT,CONN.ROD	8	
9	970307338	COMP.SHAFT,CRANK	1	
10	970302897	BEARING,BALL	4	
11	970301962	SLEEVE,CRANKSHAFT	1	
12	970301965	GEAR,CRANKSHAFT	1	
13	970301966	KEY,FEATHER	1	
14	970301967	SLINGER,OIL	1	
15	970301968	COLLAR,CRANKSHAFT	1	
16	970301969	O-RING	1	
17	970301970	NUT,CRANKSHAFT	1	
19	970307343	METAL,C/SHAFT 2 02	4	
19	970307344	METAL,C/SHAFT 2 04	4	
19	970301973	METAL,CRANKSHAFT 2	4	
20	970301974	METAL,SIDE 1	2	
20	970307345	METAL,SIDE 1-02	2	
20	970307346	METAL,SIDE 1-04	2	
21	970301975	METAL,SIDE 2	2	
21	970302409	METAL,SIDE 2 +0,2	2	
21	970302913	METAL,SIDE 2 +0,4	2	
22	970302409	METAL,SIDE 2 +0,2	2	
22	970301976	SEAL,OIL	1	
23	970302077	PULLEY,CRANKSHAFT 4.190 STD.	1	
24	970307529	MAIN BEARING	1	

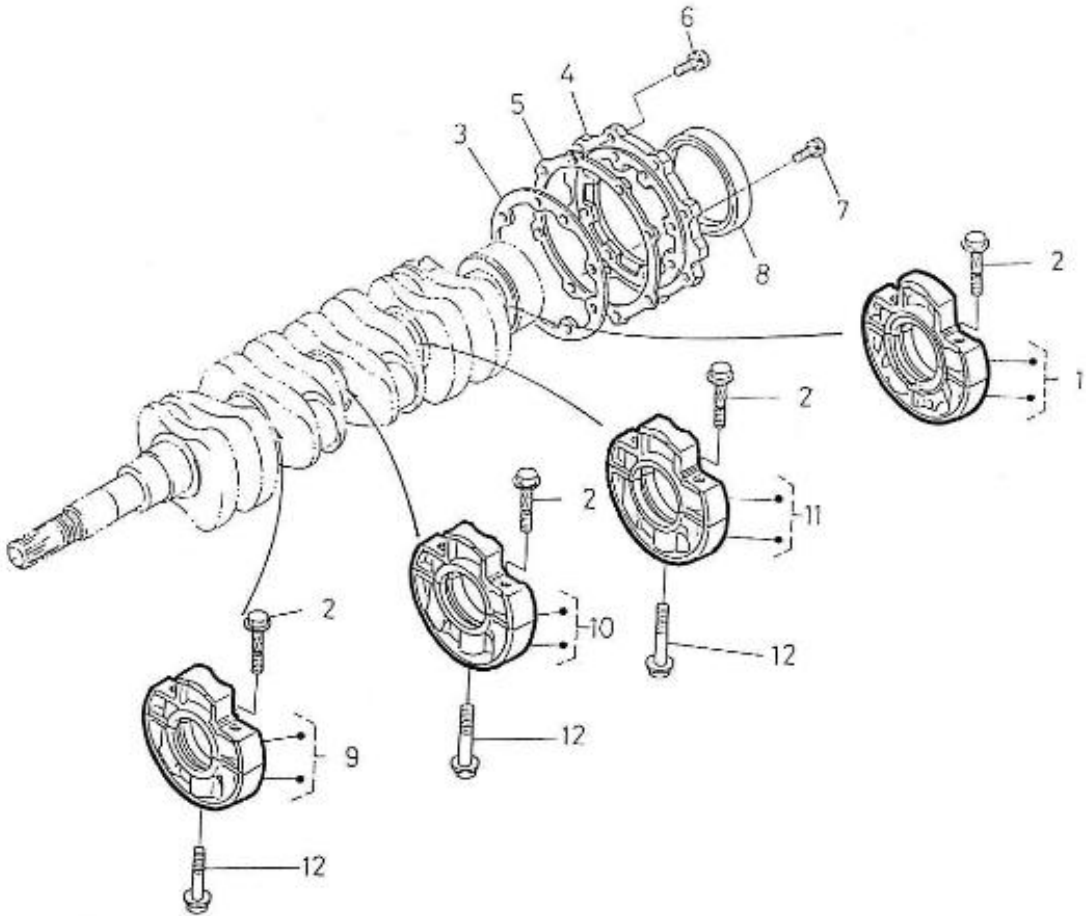
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Crankshaft

N.	Item	Description	Qty	Notes
1	970307308	CASE, MAIN BEARING	1	
2	970307309	BOLT,BEARING CASE	8	
3	970307310	GASKET,BRG.CASE NA	1	
4	970307311	COVER	1	
5	970307312	XXGASKET,CASE COVER	1	
6	970147402	BOLT,M 8X 25	8	
7	970301986	BOLT,M 8X 28	8	
8	970301987	SEAL,OIL	1	
9	970307313	CASE, MAIN BEARING	1	
10	970307314	CASE, MAIN BEARING	1	
11	970307315	CASE, MAIN BEARING	1	
12	970307316	BOLT,BEARING CASE	3	



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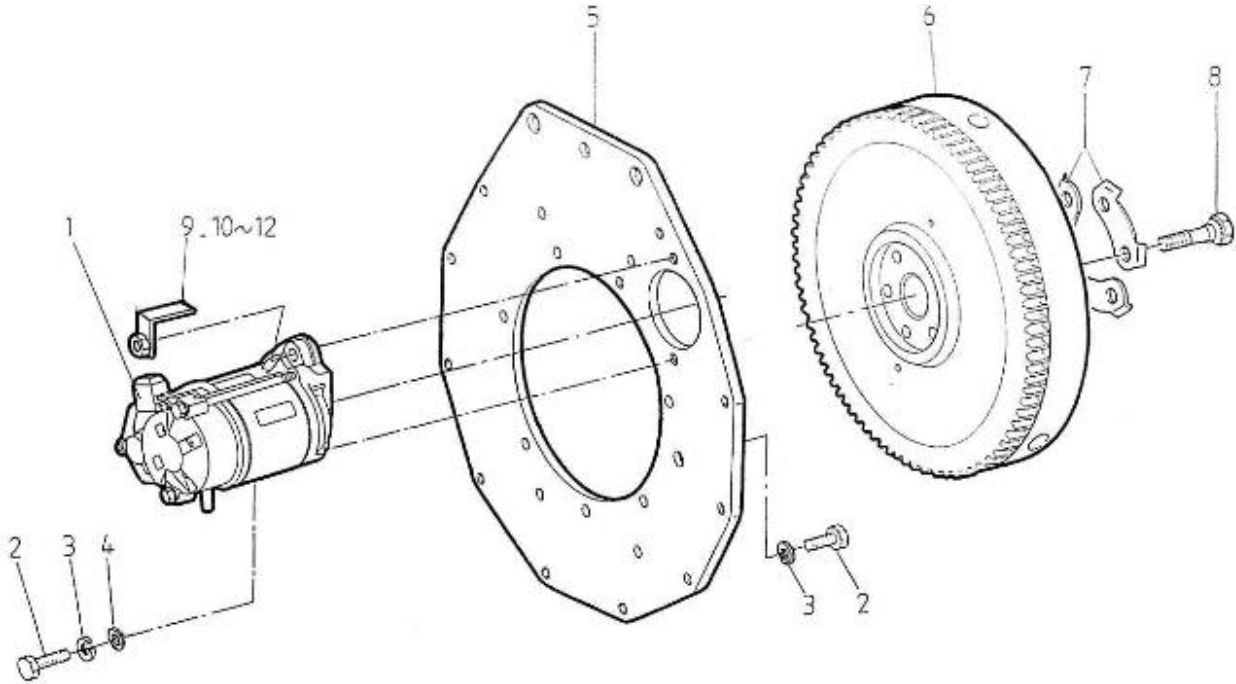
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Flywheel

N.	Item	Description	Qty	Notes
1	970302070	STARTER,MOTOR 12V 0,8KW	1	
2	970300044	BOLT,HEX M10X1,25X 25	12	
3	970119136	WASHER,SPRING D10	13	
4	970119135	WASHER,PLAIN D10	2	
5	970302643	PLATE,REAR END 6,280	1	
6	970301627	FLYWHEEL,CPL.4.190	1	
7	970302397	WASHER,FLYWHEEL 3PCS.	1	
8	970302396	BOLT,FLYWHEEL	6	
9	970307436	NUT	1	
10	970119140	BOLT,SOCK M10X 50	1	
11	970119135	WASHER,PLAIN D10	1	
12	970119136	WASHER,SPRING D10	1	



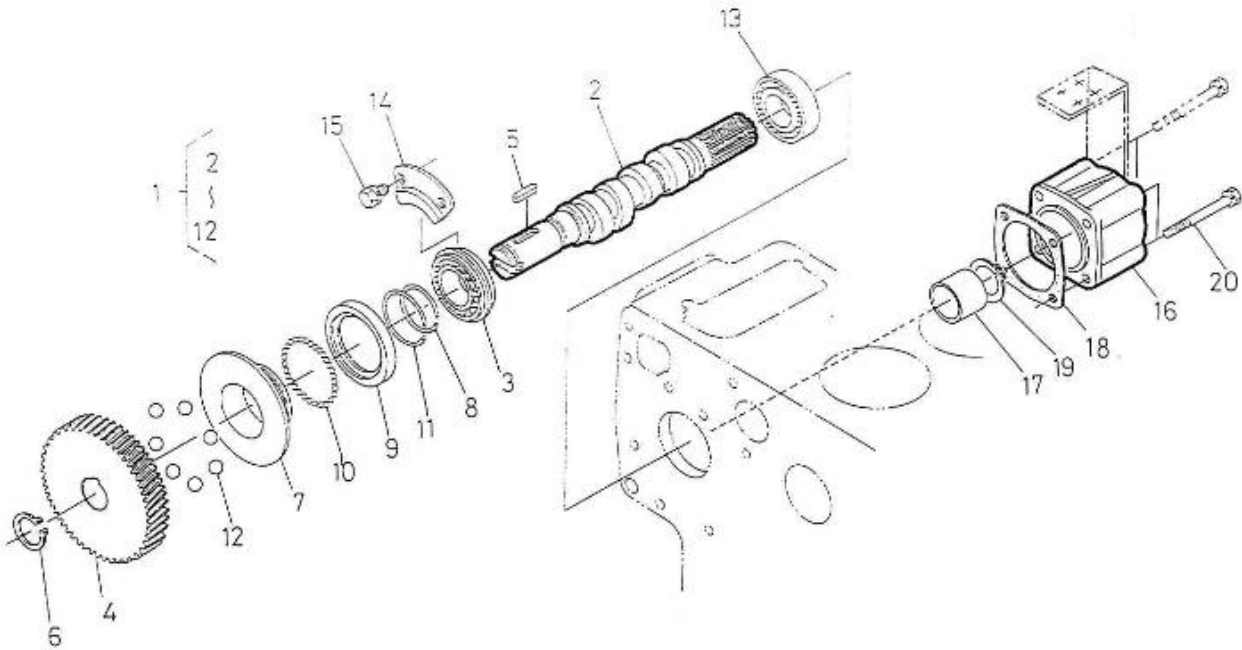
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Camshaft fuel

N.	Item	Description	Qty	Notes
1	970307349	ASSY FUEL CAMSHAFT	1	
2	970307350	CAMSHAFT,FUEL	1	
3	970302094	BEARING,CASE	1	
4	970307351	GEAR,INJECTION PUMP	1	
5	970302096	KEY,FEATHER	1	
6	970302097	CIR-CLIP,EXTERNAL	1	
7	970307352	SLEEVE,GOVERNOR	1	
8	970302099	CIR-CLIP,GOVERNOR SLEEVE	1	
9	970303929	CASE,GOVERNOR BALL	1	
10	970492130	BEARING,BALL FUEL CAMSHAFT	39	
11	970302100	CIR-CLIP,GOVERNOR BALL CASE	1	
12	970303930	BEARING,BALL	7	
13	970302105	BEARING,CASE	1	
14	970302106	STOPPER,FUEL CAMSHAFT	1	
15	970140919	BOLT, M8X14	2	
16	970303931	COVER,FUEL CAMSHAFT	1	
17	970302064	BUSHING,COVER CAMSHAFT	1	
18	970304057	GASKET NA	1	
19	970302066	CIR-CLIP,EXTERNAL	1	
20	970307353	BOLT	2	



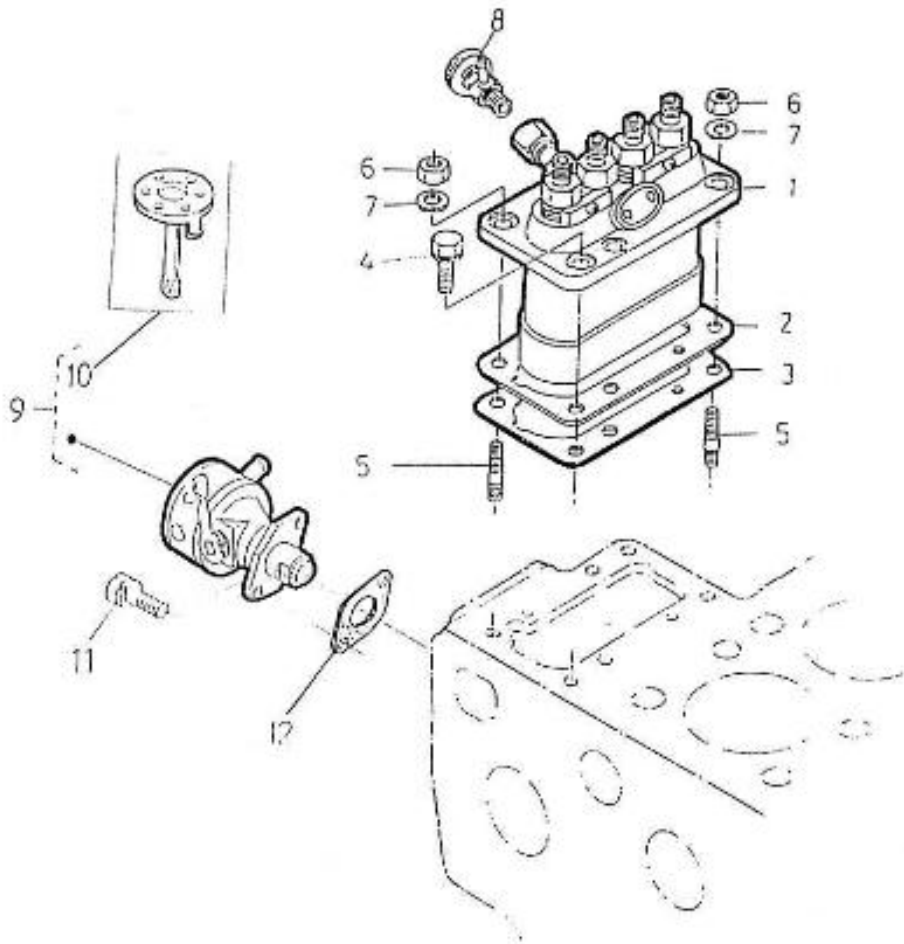
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Injection & Fuel pump

N.	Item	Description	Qty	Notes
1	970307367	ASSY PUMP,INJECTION	1	
2	970302086	SHIM,INJECTION PUMP 4.190	1	
3	970302412	SHIM,INJECTION PUMP 0.45	1	
4	970492138	BOLT,M 8X 22	4	
5	970300103	STUD,M 8X 20	2	
6	970490903	NUT,M 8	2	
7	970490904	WASHER,SPRING D 8	2	
8	970307368	ASSY COCK,JET START	1	
9	970307396	PUMP,FUEL FEED	1	
10	970307110	COMP.DIAPHRAGM NA	1	
11	970491117	BOLT,M 6X 16	2	
12	970492512	GASKET,FUEL PUMP	1	



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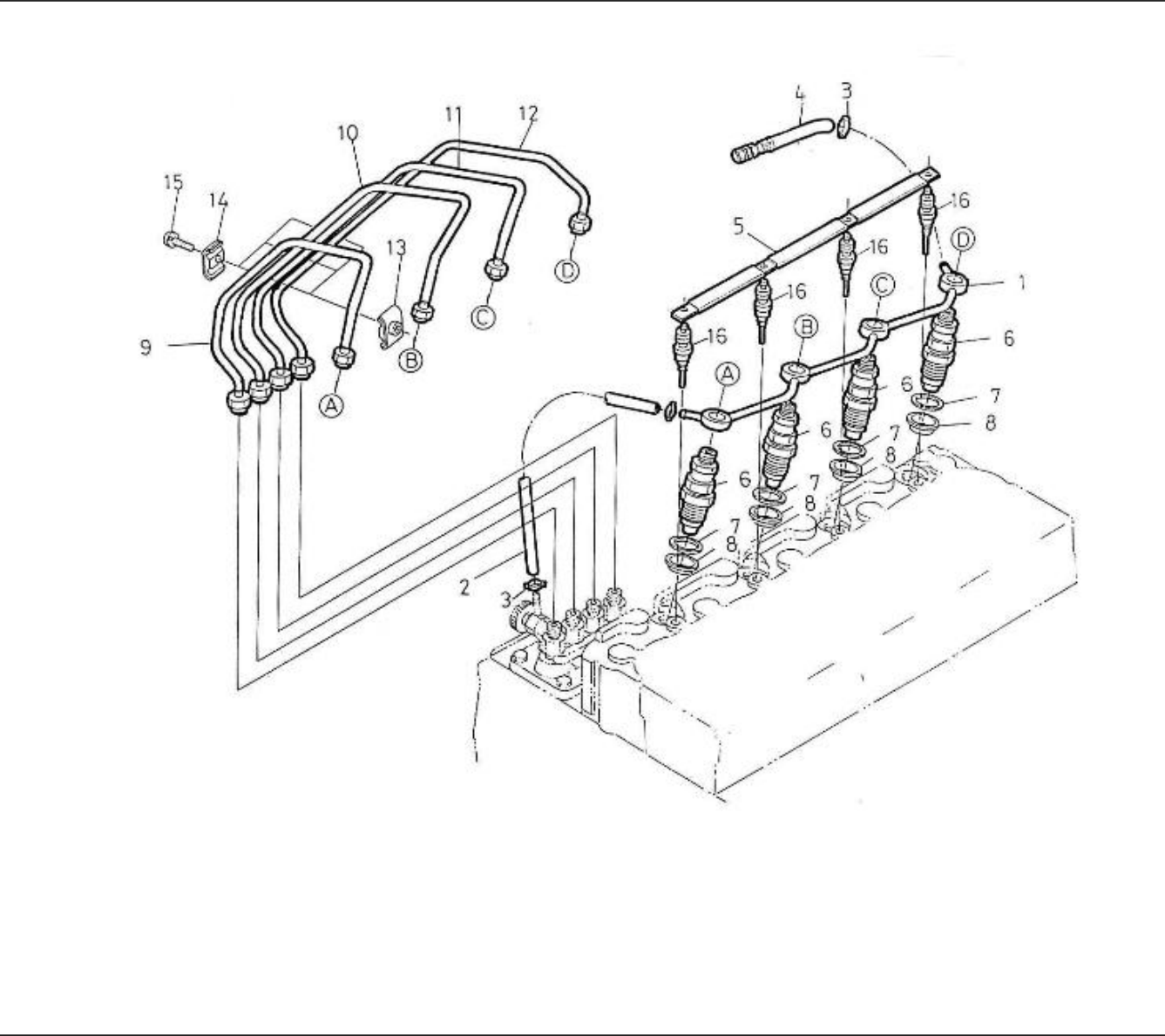
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Injection lines nozzles



N.	Item	Description	Qty	Notes
1	970307386	FUEL RETURN PIPE	1	
2	970307278	HOSE	1	
3	970310171	CLAMP	3	
4	970307279	HOSE	1	
5	970307394	CORD,GLOW PLUG	1	
6	970307387	KIT,NOZZLE HOLDER	4	
7	970142109	GHASKET, RING INJECTORS	4	
8	970307388	SEAL,HEAT	4	
9	970307389	INJECTION PIPE	1	
10	970307390	INJECTION PIPE	1	
11	970307391	INJECTION PIPE	1	
12	970307392	INJECTION PIPE	1	
13	970142114	CLAMP,FUEL LINES 1+2	3	
14	970142115	CLAMP,FUEL-LINES 1+2	3	
15	970492118	SCREW,M 5X 20 ROUND HEAD	3	
16	970307393	GLOW PLUG	4	

Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Fuel filter Assy.

N.	Item	Description	Qty	Notes
1	970622350	FILTER,FUEL	1	
2	970119143	NUT, M10	2	
3	970119136	WASHER,SPRING D10	2	
4	970302677	SUPP,FUELFILTER-OILEXTR.4.190,	1	
5	970119138	WASHER,SPRING D 8	3	
6	970498003	BOLT,SOCK M 8X 25	1	
7	970832061	BOLT	1	
8	970301280	BOLT,HEX M 8X 90	2	
9	970439306	CLAMP,HOSE 11-17	2	
10	970302330	HOSE,FUEL SUPPLY CPL.	1	
11	970301850	HOSE,FUEL INJ.PUMP CPL.	1	
12	970300306	GASKET,RING D14	8	
13	970301849	HOSE,FUEL SUPPLY CPL.	1	
14	970302494	SUPPORT,FUEL FILTER ELEMENT H-	1	
15	970432515	BOLT,BANJO M14X1,5	2	
16	970635508	BOLT,HEX M10X 25	2	
17	970300288	GASKET,M8	1	
18	970875506	PLUG	2	
19	970307396	PUMP,FUEL FEED	1	

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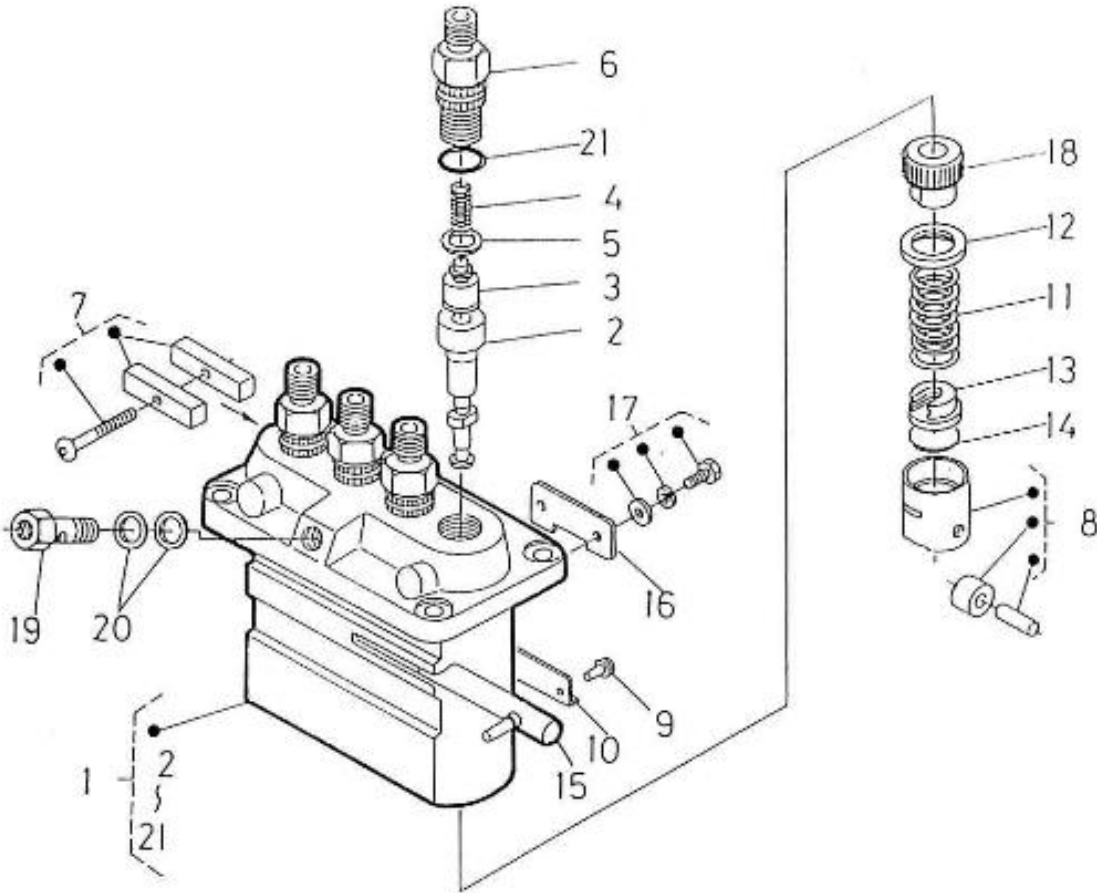
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

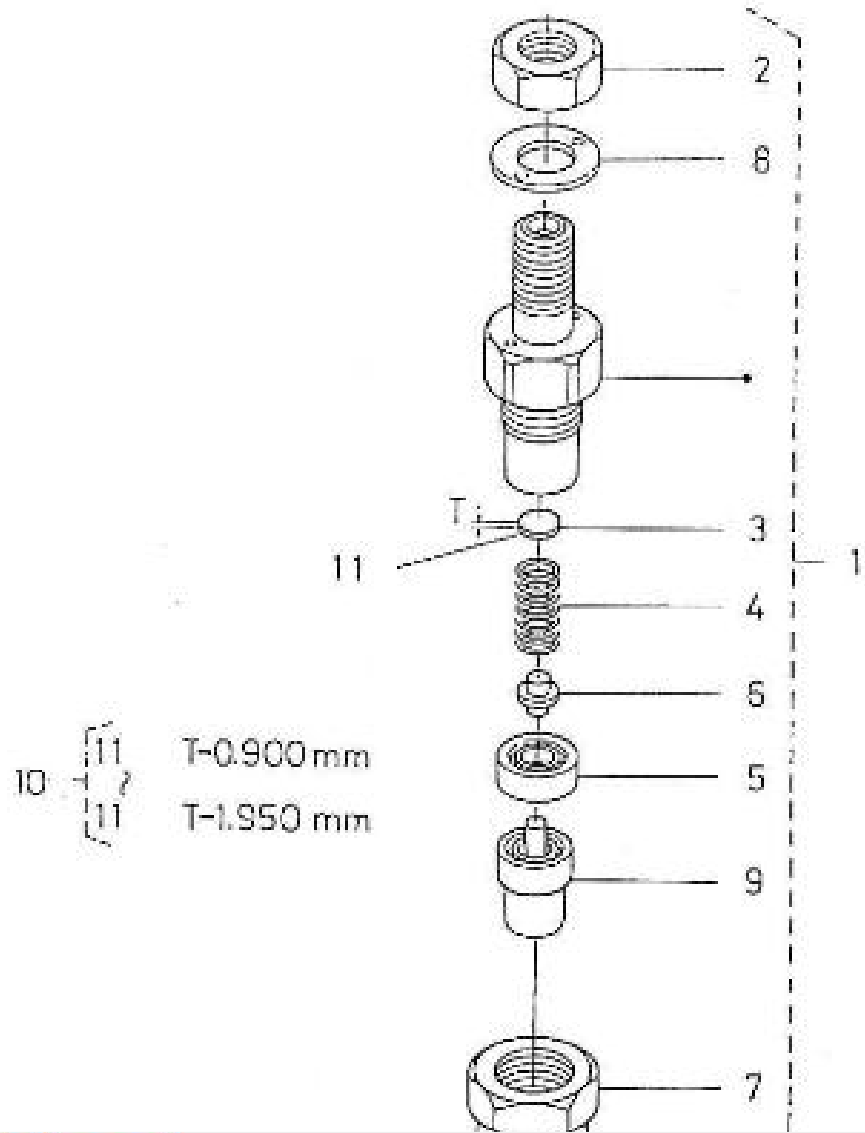
Subassembly: Injection pump component parts



N.	Item	Description	Qty	Notes
1	970307367	ASSY PUMP,INJECTION	1	
2	970307369	ASSY PLUNGER	4	
3	970307370	VALVE,DELIVERY	4	
4	970307371	SPRING,DELIV.VALVE	4	
5	970303971	GASKET,RING	4	
6	970307372	HOLDER,DELIV.VALVE	4	
7	970307373	ASSY LOCK PLATE	2	
8	970303985	TAPPET,INJ.PUMP CPL.	4	
9	970307374	PIN,TAPPET GUIDE	4	
10	970307375	PLATE	2	
11	970303982	SPRING,PLUNGER	4	
12	970303981	SEAT,SPRING -UPPER-	4	
13	970303983	SEAT,SPRING -LOWER-	4	
14	970303984	SHIM	4	
15	970307376	RACK,CONTROL	1	
16	970303968	PLATE,ADJUSTING	3	
17	970303969	BOLT	3	
18	970303980	SLEEVE,CONTROL	4	
19	970302107	SCREW,INJ.PUMP	1	
20	970307379	WASHER,NIPPLE	2	
21	970307822	O RING	4	

Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Nozzle holder

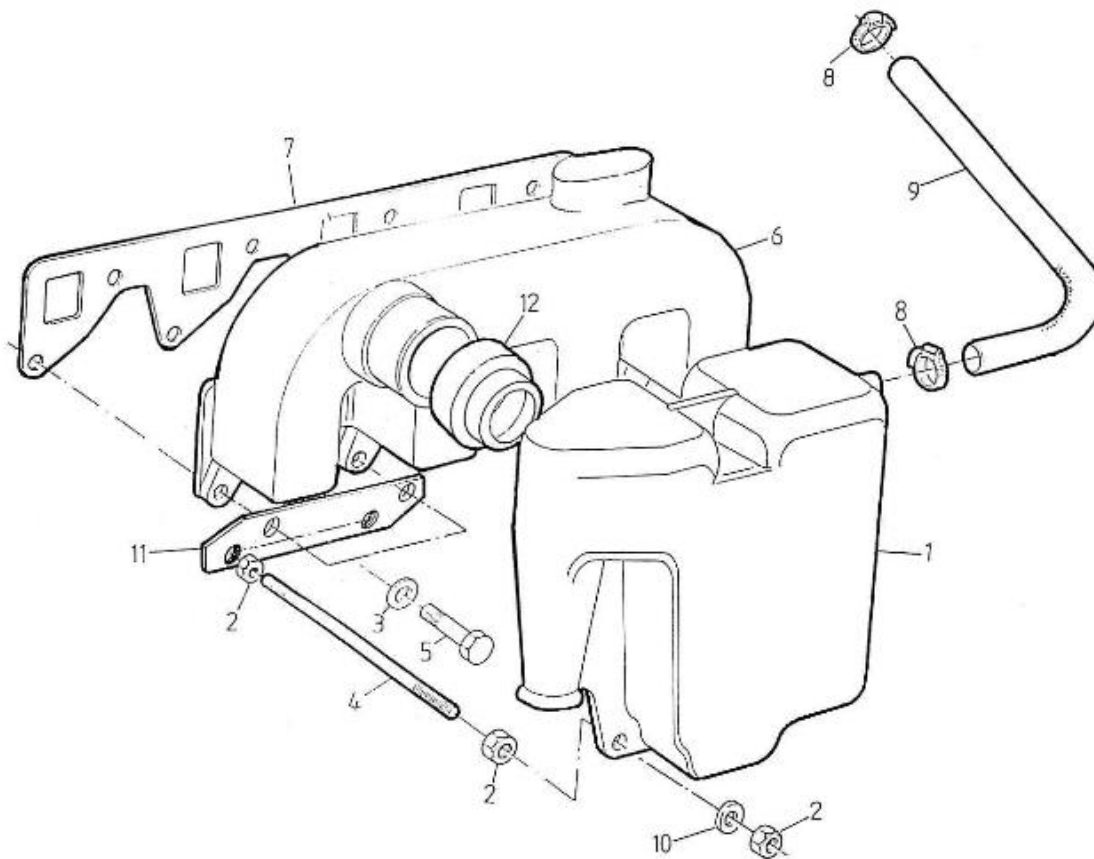
N.	Item	Description	Qty	Notes
1	970307387	KIT,NOZZLE HOLDER	4	
2	970142175	NUT,NOZZLE INJ.	4	
3	970302825	SPACER,ADJ.NOZZLE STD.	4	
4	970142171	SPRING,NOZZLE FUEL	4	
5	970142173	PIECE,DISTANCE NOZZLE INJ.	4	
6	970142170	ROD,PUSH NOZZLE FUEL	4	
7	970142172	HOLDER,NOZZLE	4	
8	970302826	WASHER,NOZZLE INJ.	4	
9	970307395	PIECE,NOZZLE	4	
10	970142200	SET,SPACER NOZZLE	4	
11	970302825	SPACER,ADJ.NOZZLE STD.	4	



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Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970301715	FILTER,AIR 4.190 6.280	1	
Version: Standard	2	970027322	NUT,M 8	6	
Subassembly: Air filter	3	970119139	WASHER,CORRUGATED D8	4	
	4	970301581	STUD,M 8X110	2	
	5	970409603	BOLT,HEX M 8X 25	2	
	6	970307412	MANIFOLD,INLET	1	
	7	970302137	GASKET,INTAKE MANIFOLD 4.190	1	
	8	970439306	CLAMP,HOSE 11-17	2	
	9	970496045	HOSE,CARTER DEAIR	1	
	10	970119138	WASHER,SPRING D 8	2	
	11	970307414	SUPPORT AIR FILTER	1	
	12	970307415	HOSE	1	

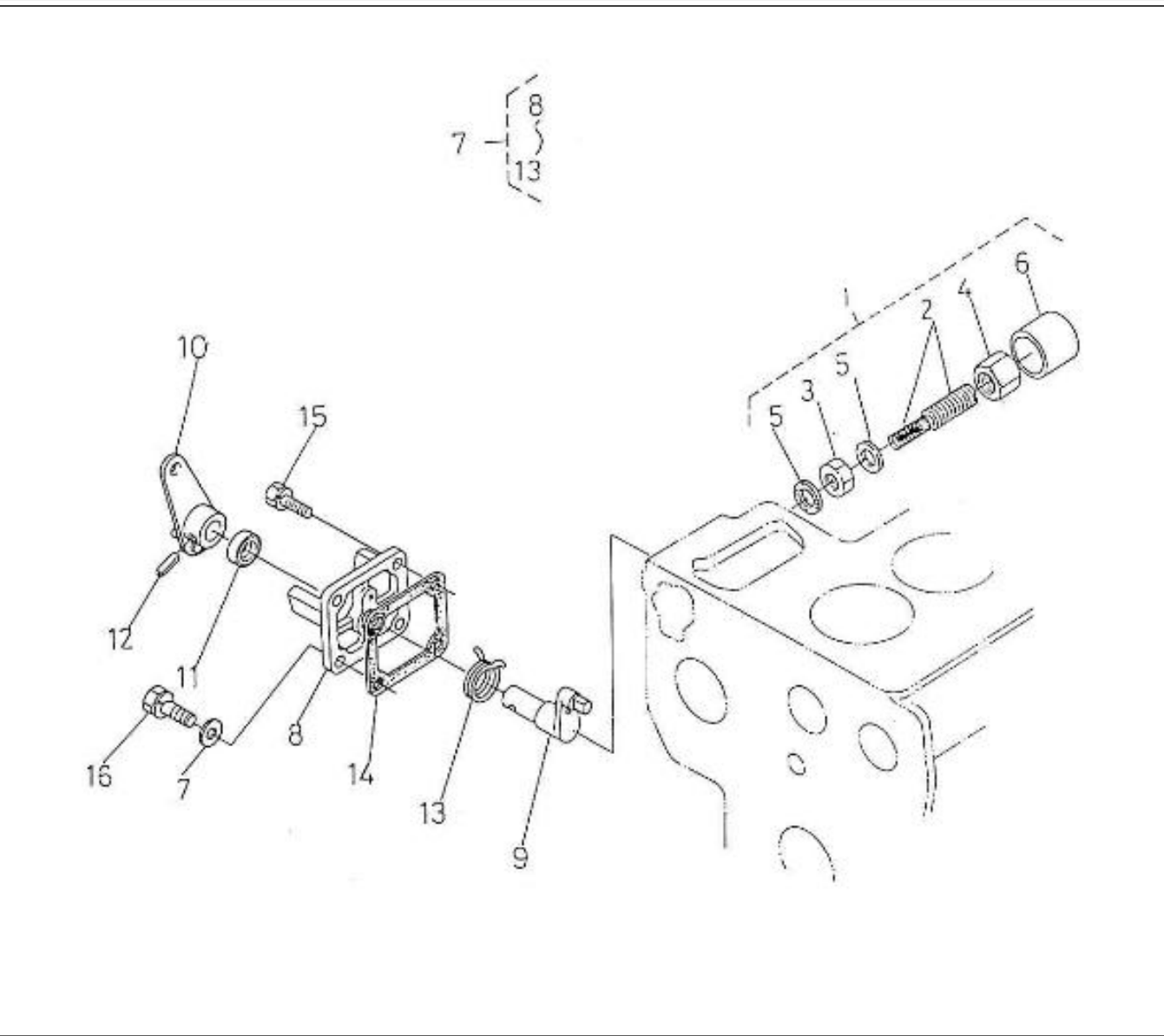


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Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Engine stop lever

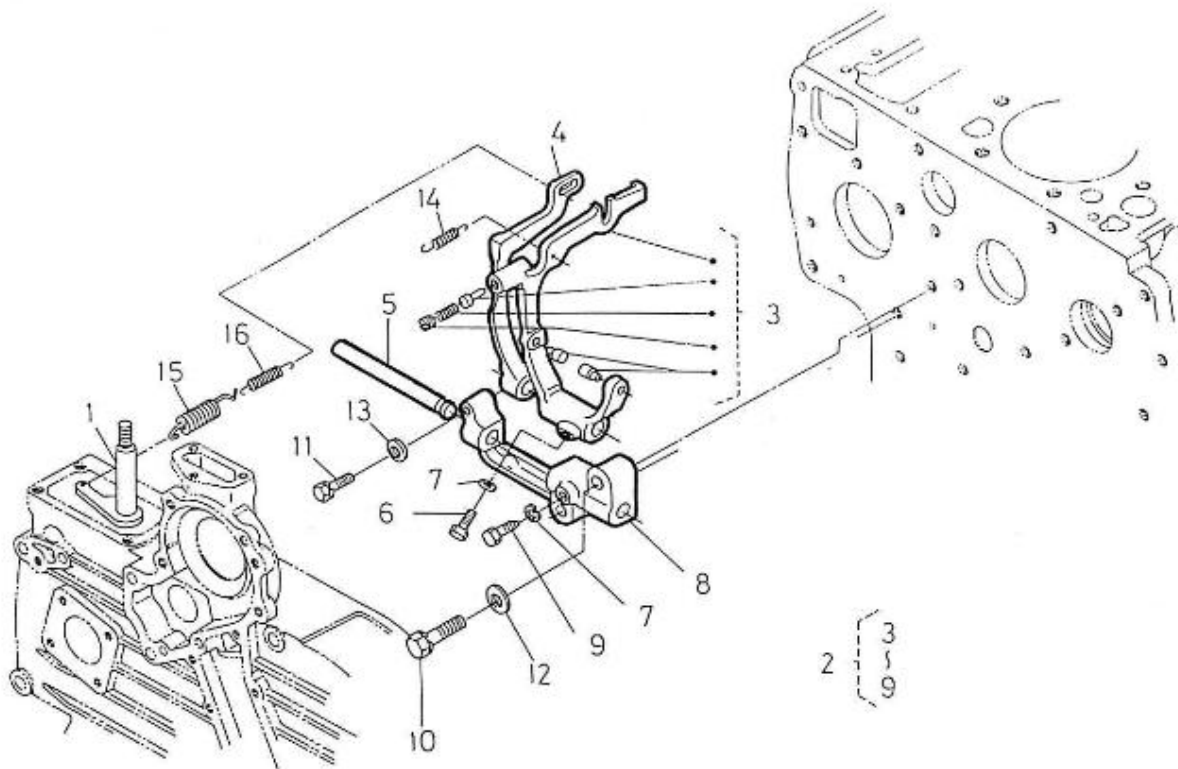
N.	Item	Description	Qty	Notes
1	970307354	APPARATUS,IDLING	1	
2	970307356	ASSY BOLT,ADJUSTING	1	
3	970303906	NUT	1	
4	970307355	NUT,CAP	1	
5	970491131	WASHER,SEAL	2	
6	970302069	CAP	1	
7	970307357	ASSY LEVER,ENG.STOP	1	
8	970307358	COVER,INJECTION PUMP	1	
9	970307359	SHAFT,LEVER	1	
10	970307360	LEVER,ENGINE STOP	1	
11	970302861	SEAL,OIL	1	
12	970151130	PIN,SPRING RETAINER	1	
13	970307361	SPRING,RETURN	1	
14	970302062	GASKET,COVER	1	
15	970490143	BOLT,M 6X 18	2	
16	970141537	BOLT, M6X22	2	
17	970141326	WASHER, PLAIN D6	2	



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Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970302030	LEVER,GOVERNOR	1	
Version: Standard	2	970307380	ASSY LEVER,FORK	1	
Subassembly: Governor	3	970307381	LEVER,GOVERNOR	1	
	4	970307382	LEVER,FORK	1	
	5	970302034	SHAFT,FORK LEVER	1	
	6	970302035	BOLT	1	
	7	970119149	WASHER, SPRING D 6	2	
	8	970302036	SUPPORT,FORK LEVER	1	
	9	970490520	BOLT	1	
	10	970302037	BOLT,M 8X 32	2	
	11	970491323	BOLT,M 6X 28	1	
	12	970301933	WASHER,PLAIN D 8	2	
	13	970141326	WASHER, PLAIN D6	1	
	14	970303921	SPRING,START	1	
	15	970307383	SPRING	1	
	16	970307384	SPRING.GOVERNOR 2	1	



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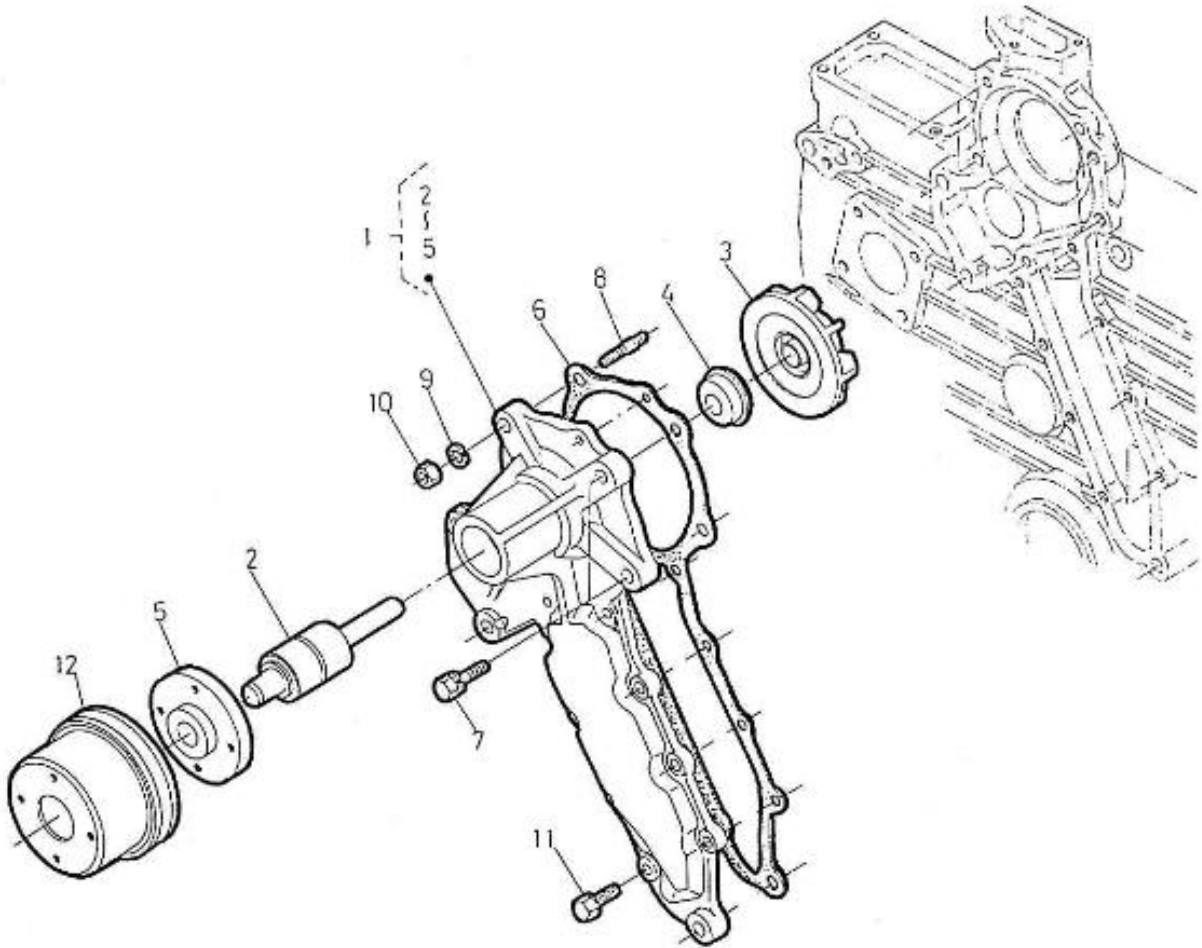
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Fresh water pump

N.	Item	Description	Qty	Notes
1	970302110	PUMP,F/WATER CPL.4.190	1	
2	970302109	BEARING,SHAFT W/PUMP	1	
3	970302111	IMPELLER,F/WATER PUMP 4.190	1	
4	970302112	SEAL,MECHANICAL F/W.PUMP	1	
5	970302113	FLANGE,F/WATER PUMP	1	
6	970302117	GASKET,WATER PUMP 4.190	1	
7	970301986	BOLT,M 8X 28	2	
8	970302118	STUD	2	
9	970490904	WASHER,SPRING D 8	2	
10	970490903	NUT,M 8	2	
11	970490119	BOLT,M 6X 18	8	
12	970307398	PULLEY	1	



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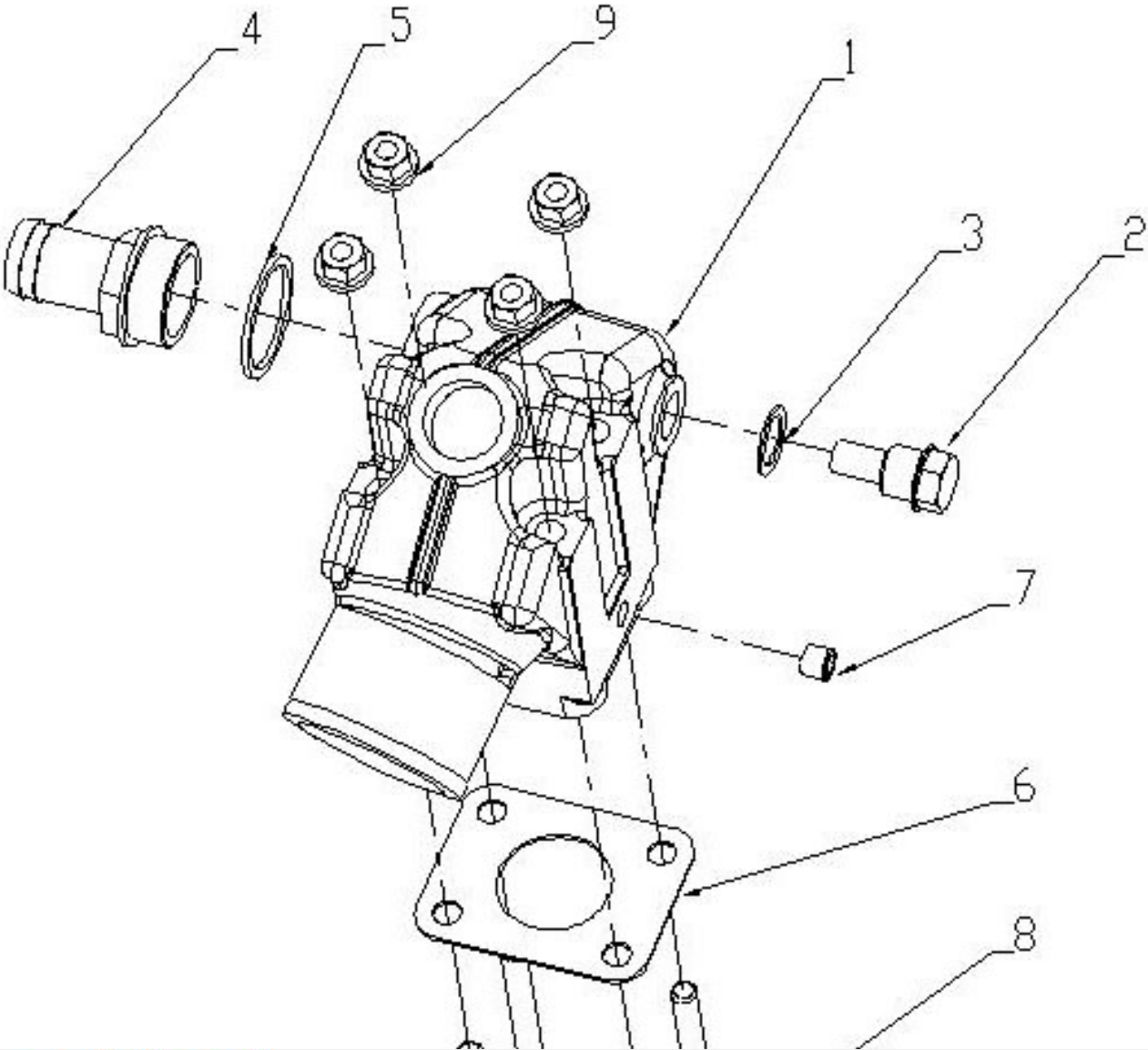
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: HEAT EXCHANGER

N.	Item	Description	Qty	Notes
0	39020445	GOUJON M8X95,J16,8.8,ZN	4	
0	39460916	ECROU H A EMBASE LISSE M8 ACIER, CLASSE 8, ZINGUE	4	
1	665700070	COUDE D'ECHAPPEMENT 4.220HE NOUVEAU MODEL	1	
2	970494635	ANODE,ZINC CPL M16X1,5	1	
3	970300199	GASKET,RING D16	1	
4	655402075	BARBED END BRASS FITTING 1-25	1	
5	48410090	GASKET	1	
6	970310501	GASKET NA	1	
7	970307265	PLUG,HEX 1/8	1	



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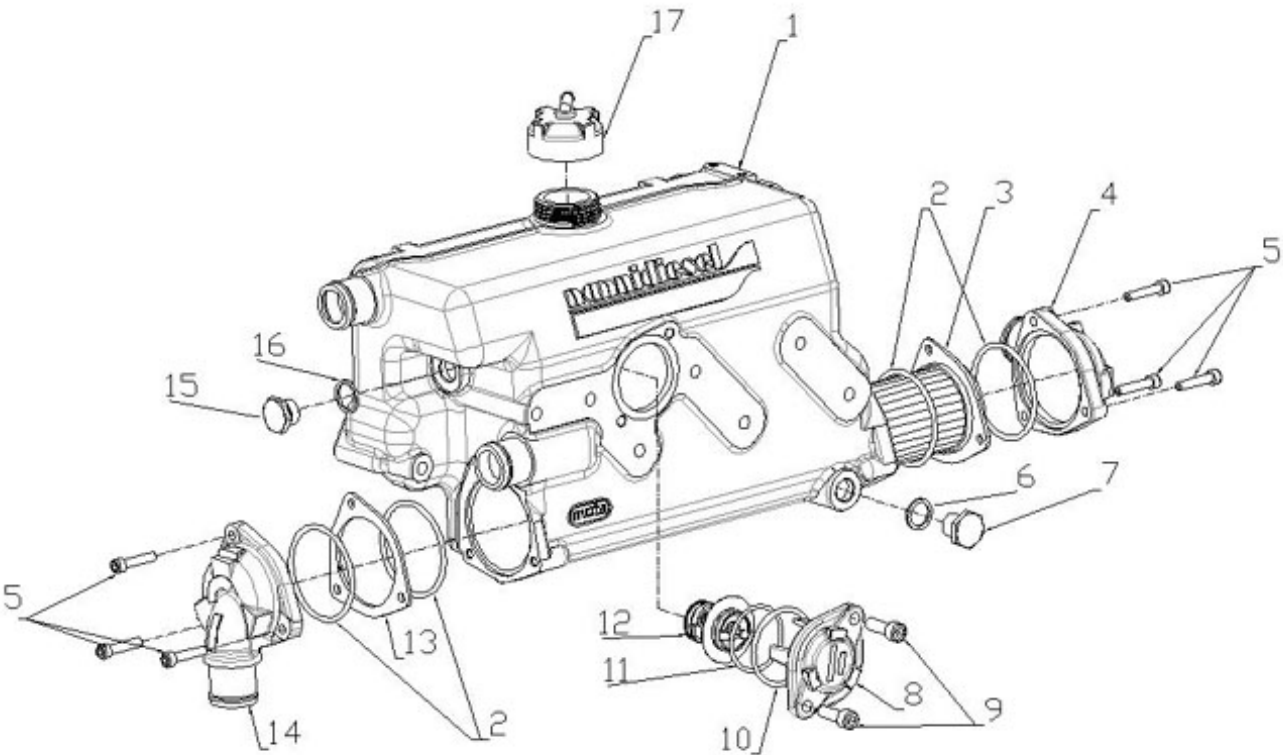
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Heat exchanger spare parts

N.	Item	Description	Qty	Notes
1	48300398	ECHANGEUR EAU 4.200TD	1	
2	48418183	O RING	4	
3	48300416	FAISCEAU ECHANGEUR N4.50 - N4.60	1	
4	48300415	CALOTTE ENTREE EAU ECHANGEUR N4.50 - N4.60	1	
5	970634037	BOLT,SOCK M 6X 30	6	
6	970300289	GASKET,RING D17	1	
7	970639853	"PLUG,HEX 3/8""G"	1	
8	970313178	COUVERCLE THERMOSTAT ECHANGEUR N4.50 - N4.60	1	
9	970498003	BOLT,SOCK M 8X 25	2	
10	48418185	O RING	1	
11	48418184	O RING	1	
12	970313177	THERMOSTAT ECHANGEUR N4.50 - N4.60	1	
13	95312333	ENTRETOISE ECHANGEUR/CALOTTE N4.50 - N4.60	1	
14	48300414	CALOTTE SORTIE EAU ECHANGEUR N4.50 - N4.60	1	
15	41169801	PLUG	1	
16	970300364	GASKET,RING D18	1	
17	970313176	BOUCHON DE REMPLISSAGE ECHANGEUR N4.50 - N4.60	1	

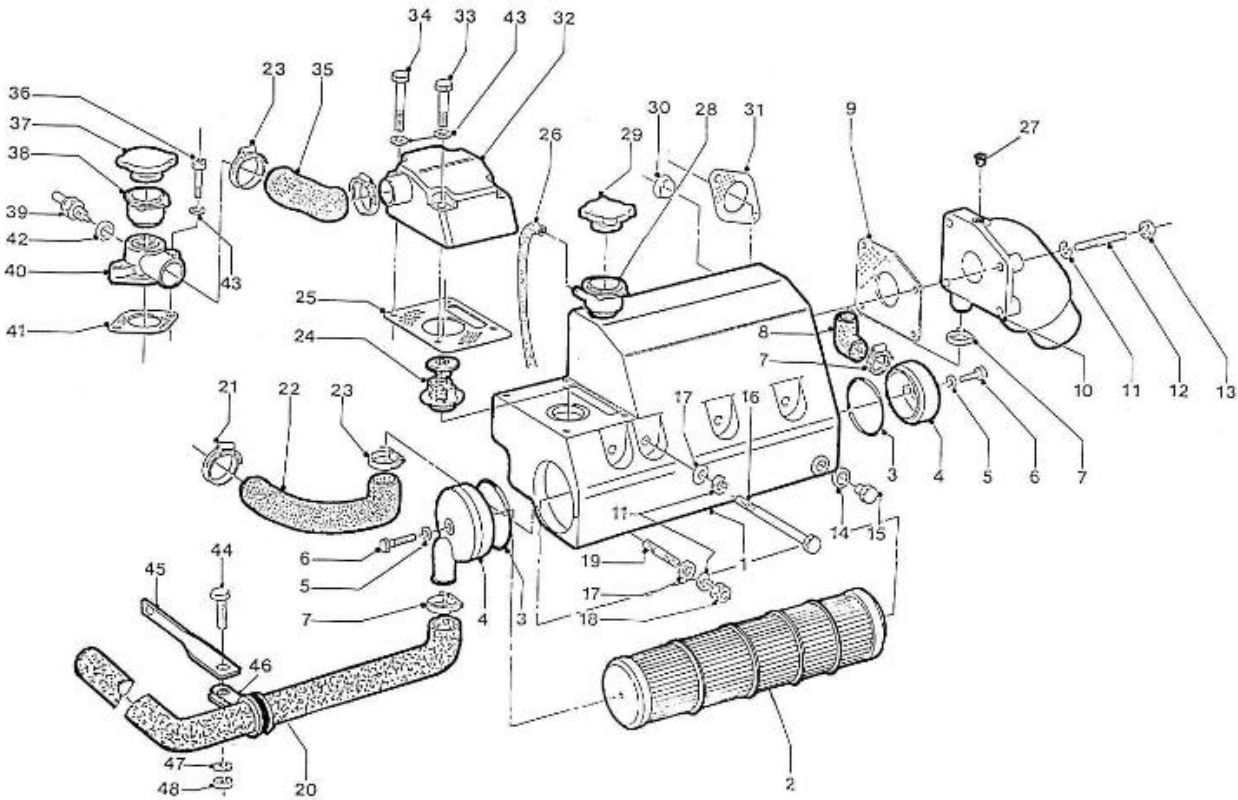


Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Heat exchanger exh. Manifold



N.	Item	Description	Qty	Notes
1	970301701	HOUSING,HEATEXCHANGER 4.190	1	JUSQU'AU N°30129
1	970307712	HOUSING,HEATEXCHANGER	1	A PARTIR DU N°30130
2	970307713	TUB STACK	1	JUSQU'AU N°30129
2	970307713	TUB STACK	1	A PARTIR DU N°30130
3	970301719	O-RING,68,00X4,00	2	
4	970301404	COVER,HEATEXCH.	2	JUSQU'AU N°30129
4	970307714	COVER	2	A PARTIR DU N°30130
5	970300288	GASKET,M8	2	
6	970301263	BOLT,M 8X 45 -A2-	2	
7	970604526	CLAMP,HOSE 22-32	4	
8	970301713	HOSE,ELBOW COVER HEATEX.4.190	1	
9	970301710	GASKET,MIXER 4.190	1	
10	970301706	MIXER,4.190	1	
11	970119138	WASHER,SPRING D 8	12	
12	970300080	STUD,M 8X 25	4	
13	970027322	NUT,M 8	4	
14	970300306	GASKET,RING D14	1	
15	970875506	PLUG	1	
16	970301703	BOLT,HEX M 8X160	4	
17	970119138	WASHER,SPRING D 8	8	
18	970027322	NUT,M 8	4	
19	970300374	STUD,M 8X 30	4	
20	970307424	HOSE	1	
21	970604533	CLAMP,HOSE 32-44	1	
22	970301718	HOSE,WATER RETURN D32-34	1	
23	970300922	CLAMP,HOSE 26-38	3	
24	970307282	THERMOSTAT	1	
25	970301408	GASKET,THERMOSTAT COVER	1	
26	970300077	HOSE,D 8 L= 450	1	
27	970307265	PLUG,HEX 1/8	1	
28	970300834	FILLING,NECK WATER	1	
29	970604614	CAP,FILLING 0, 7 DOUBLE SEAL	1	
30	970494517	CAP,FREEZE	2	
31	970302169	GASKET,EXHAUST MANIFOLD 4.190-	4	
32	970301403	COVER,THERMOSTAT	1	
33	970300409	BOLT,HEX M 8X 55	2	
34	970300261	BOLT,HEX M 8X 80	2	
35	970301714	HOSE,D32 COVER THERMO.4.190	1	
36	970635916	BOLT,SOCK M 8X 35	2	
37	970604614	CAP,FILLING 0, 7 DOUBLE SEAL	1	
38	970301734	FILLING,NECK CPL.4.190	1	
39	970851602	WATER TEMPERATURE SENDER	1	
40	970301711	FLANGE,WATER INTAKE 4.190	1	
41	970301730	GASKET,FLANGE	1	
42	970300306	GASKET,RING D14	1	
43	970119139	WASHER,CORRUGATED D8	6	
44	970439910	BOLT,HEX M 6X 16	1	
45	970302233	SUPPORT,PIPE CLAMP	1	
46	970304072	CLAMP	1	

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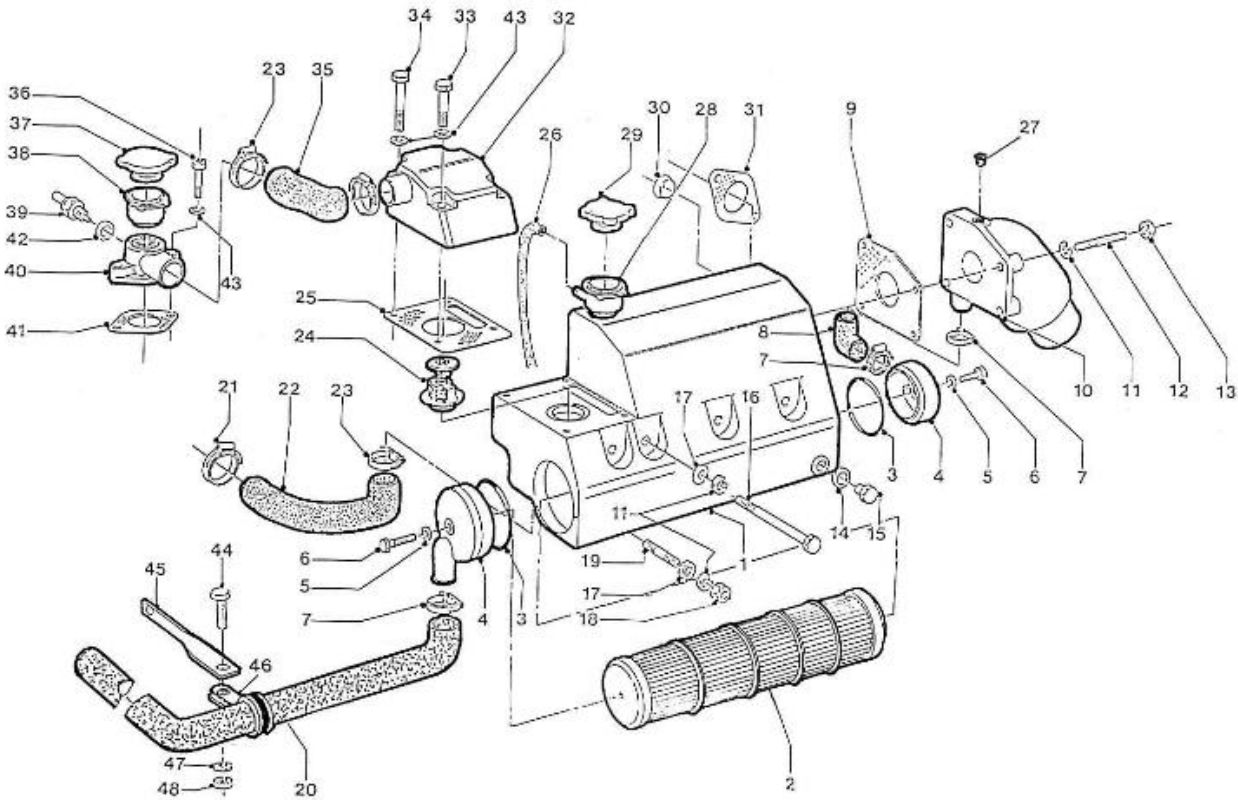
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Heat exchanger exh. Manifold

N.	Item	Description	Qty	Notes
47	970119149	WASHER, SPRING D 6	1	
48	970635460	NUT,M 6	1	
49	970302467	+++ PLUS DIFFUSE ++++++ JOINT ECHANGEUR	1	
50	970307799	HEATEXCHANGER	1	

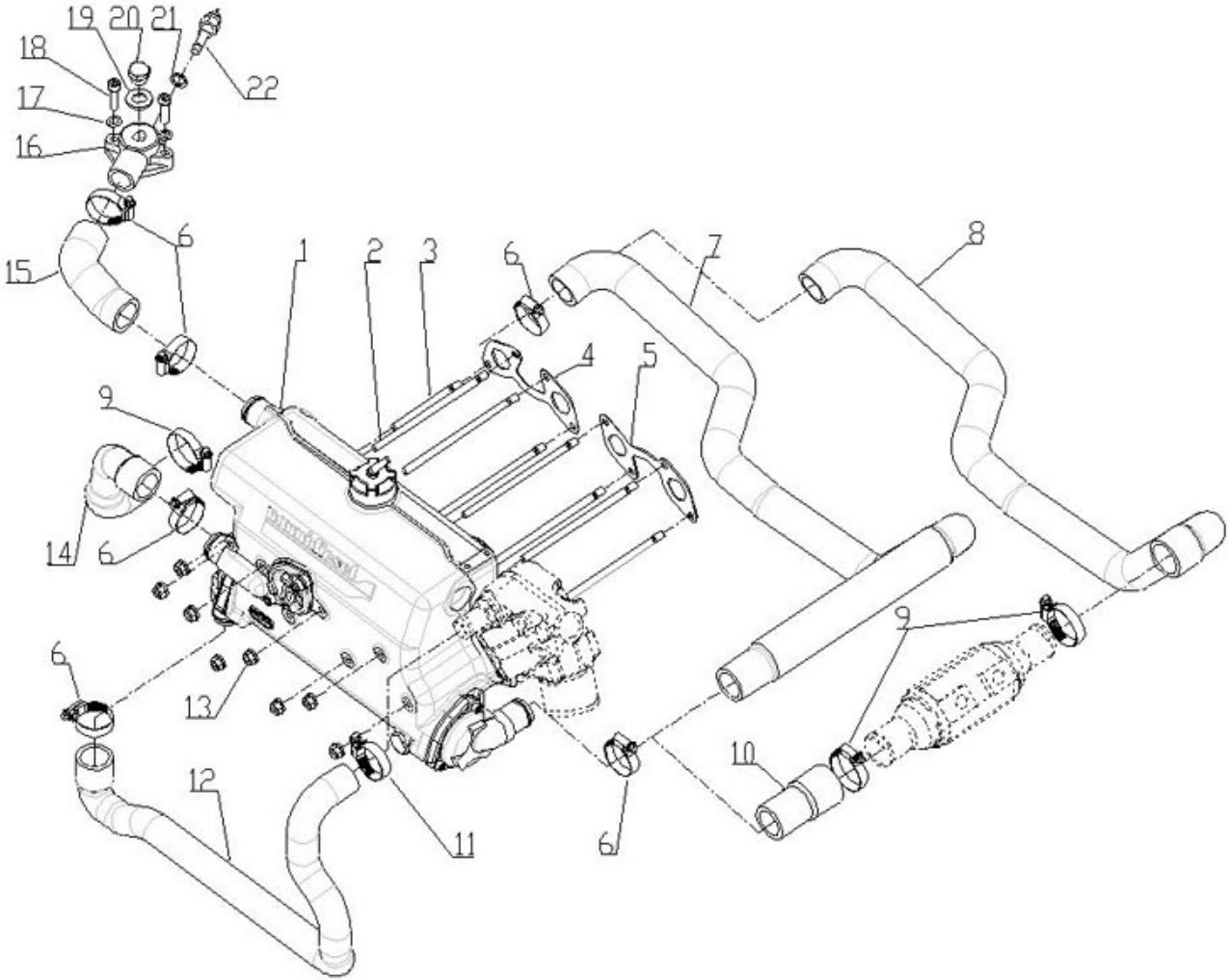


Brand: NanniDiesel

Model: Moteur 4.220HE

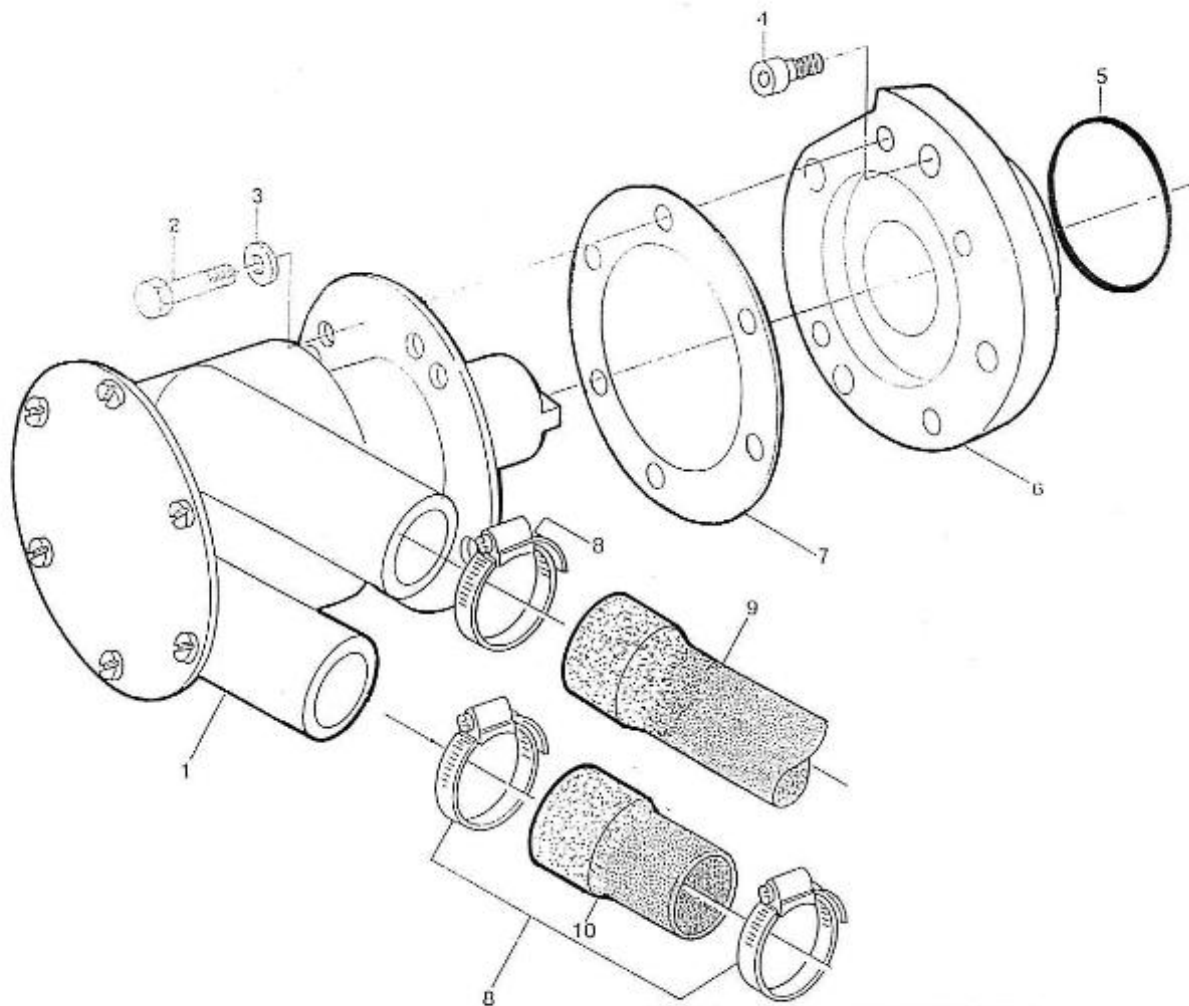
Version: Standard

Subassembly: HEAT EXCHANGER



N.	Item	Description	Qty	Notes
1	48300398	ECHANGEUR EAU 4.200TD	1	
2	39020339	STUD BOLT	7	
3	39020336	GOUJON M8-85,J12,8.8,ZN -----voir libellé -----	1	
4	970313110	GASKET,EX-MANIFOLD	1	
5	970313111	GASKET,EX-MANIFOLD	1	
6	970300922	CLAMP,HOSE 26-38	6	
7	48328143	DURITE EAU DE MER 4.220 POMPE / ECHANGEUR	1	POUR INVERSEUR MECANIQUE
8	48328142	DURITE EAU DE MER 4.220 POMPE / REFROIDISSEUR	1	POUR INVERSEUR HYDRAULIQUE
9	970604533	CLAMP,HOSE 32-44	3	
10	48328132	DURITE SORTIE EAU - REF INV 4.200TD	1	POUR INVERSEUR HYDRAULIQUE
11	970604526	CLAMP,HOSE 22-32	1	
12	48328141	DURITE EAU DE MER ECH /C.ECHAP 4.220	1	
13	39460916	ECROU H A EMBASE LISSE M8 ACIER, CLASSE 8, ZINGUE	8	
14	48328134	DURITE RETOUR EAU DOUCE	1	
15	970301714	HOSE,D32 COVER THERMO.4.190	1	
16	970301711	FLANGE,WATER INTAKE 4.190	1	
17	970119139	WASHER,CORRUGATED D8	2	
18	970635916	BOLT,SOCK M 8X 35	2	
19	970300289	GASKET,RING D17	1	
20	970300306	GASKET,RING D14	1	
21	970851602	WATER TEMPERATURE SENDER	1	
22	970639853	"PLUG,HEX 3/8""G"	1	
23	970300289	GASKET,RING D17	1	

Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970307474	PUMP,WATER	1	
Version: Standard	2	970644006	BOLT,HEX M 6X 20	4	
Subassembly: Seawater pump Ass	3	970609602	WASHER,CORRUGATED D 6	4	
	4	970164026	BOLT,SOCK M 6X 16	4	
	5	970154025	O-RING,28,17X3,53	1	
	6	970302649	FLANGE,WATER PUMP 6.280HE	1	
	7	970302683	GASKET,WATER PUMP 6.280	1	
	8	970300922	CLAMP,HOSE 26-38	3	
	9	970307424	HOSE	1	
	10	970307423	HOSE	1	

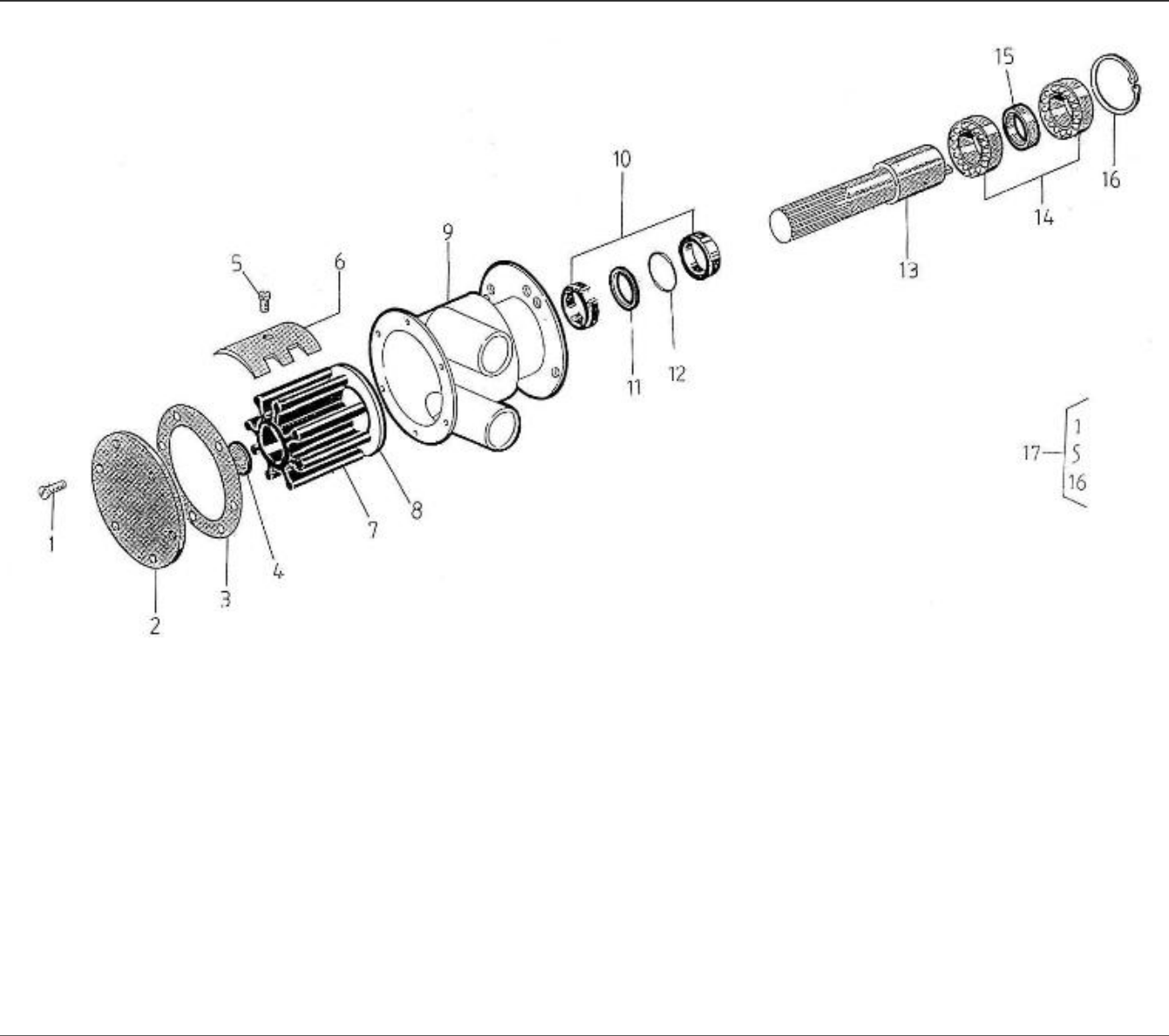


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Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Sea water pump

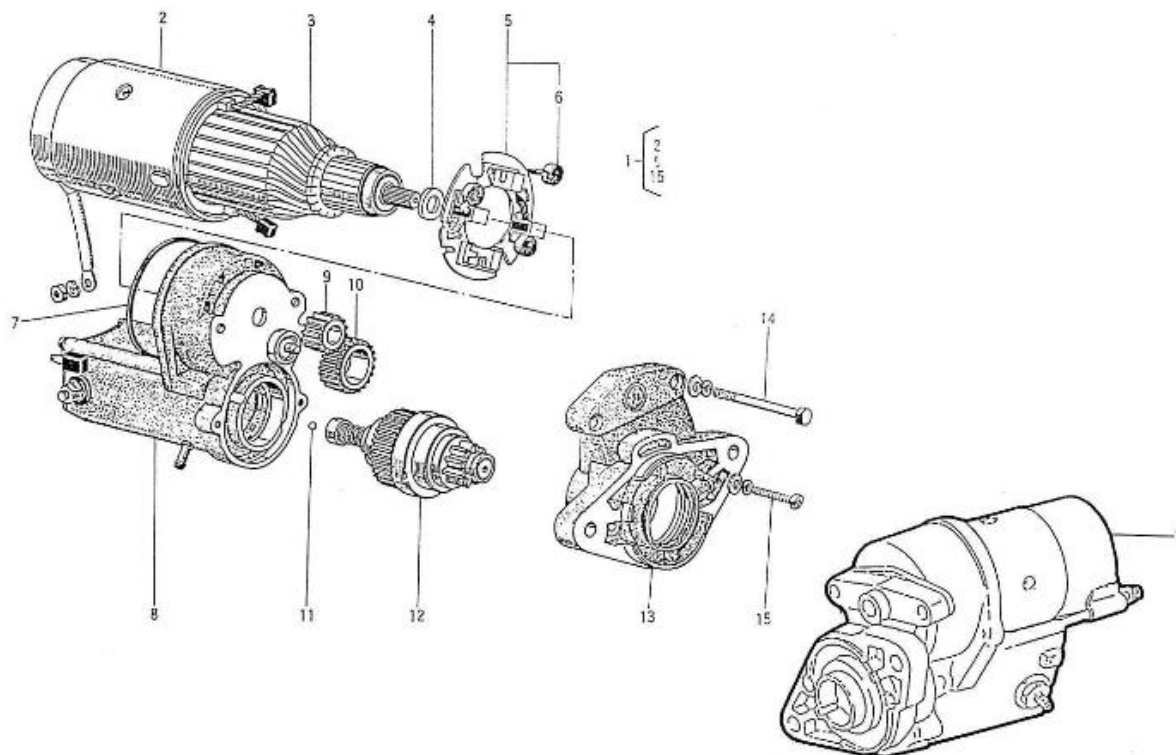
N.	Item	Description	Qty	Notes
1	970307476	BOLT	6	
2	970301673	COVER	1	
3	970301670	GASKET	1	
4	970301671	GASKET	1	
5	970301676	SCREW,CAM WATER PUMP	1	
6	970307485	CAM,WATER PUMP	1	
7	48100740	+++ R.P. 970544310 ++++++ ROTOR 8 PALES(pour	1	
8	970301677	WEAR PLATE	1	
9	970307474	PUMP,WATER	1	
10	970307480	+++ R.P. 51.06520-0076 ++++++ JOINT SPEE POMPE EAU	2	
11	970307478	SPACER	1	
12	970307479	SHIELD,OIL BREATHER	1	
13	970307484	PUMP SHAFT	1	
14	970307481	BEARING	2	
15	970307482	SPACER	1	
16	970307483	CIR-CLIP	1	
17	970307474	PUMP,WATER	1	
18	970307475	REPAIR KIT	1	



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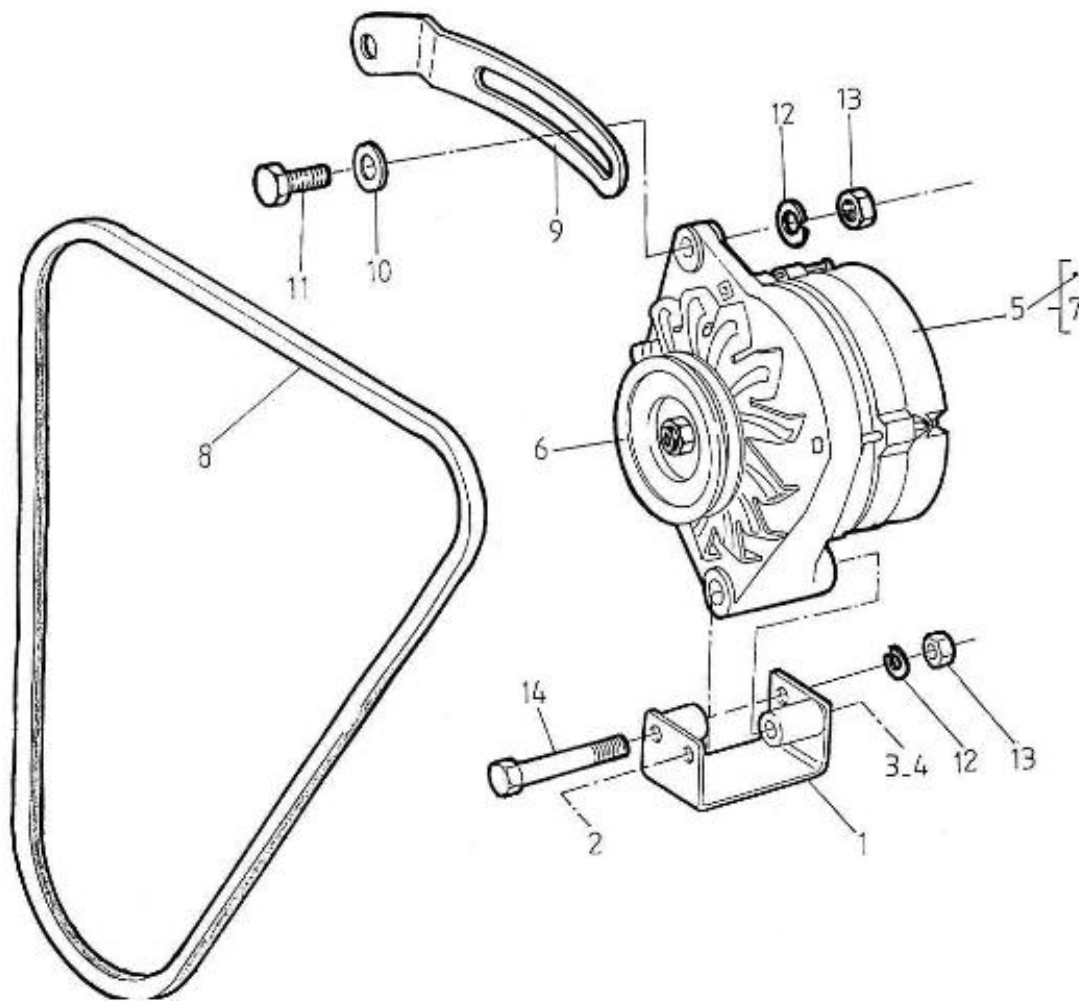
Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970302070	STARTER,MOTOR 12V 0,8KW	1	
Version: Standard	2	970303986	HOUSING,ROTOR	1	
Subassembly: Starter motor	3	970303987	ROTOR,STARTER 6.280	1	
	4	970303988	GASKET,RING	1	
	5	970303989	HOLDER,BRUSH	1	
	6	970517318	SPRING,BRUSH	4	
	7	970303990	GASKET	1	
	8	970303991	HOLDER,MAGNETIC SWITCH	1	
	9	970303992	GEAR,1	1	
	10	970517313	GEAR,2 STARTER MOTOR 4.110	1	
	11	970517316	BHEARING,BALL STARTER MOTOR	1	
	12	970303994	PINION,SWITCH	1	
	13	970303995	FRAME,DRIVE END-STARTER MOTOR	1	
	14	970303996	BOLT	2	
	15	970303997	SCREW	2	



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Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970307438	SUPPORT,ALTERNATOR	1	
Version: Standard	2	970307531	BOLT	1	
Subassembly: Alternator Assy.Std.	3	970039794	WASHER	1	
	4	970307532	NUT	1	
	5	970307522	ALTERNATOR,14V-60A	1	
	6	970307521	PULLEY	1	
	7	970307533	REGULATOR,ALTERNATOR	1	
	8	970307404	V-BELT	1	
	9	970307437	TIGHTENER,V-BELT	1	
	10	970304050	WASHER	1	
	11	970024016	BOLT,HEX M 8X 40	1	
	12	970119138	WASHER,SPRING D 8	2	
	13	970027322	NUT,M 8	2	
	14	970607384	BOLT,HEX M 8X 110	1	

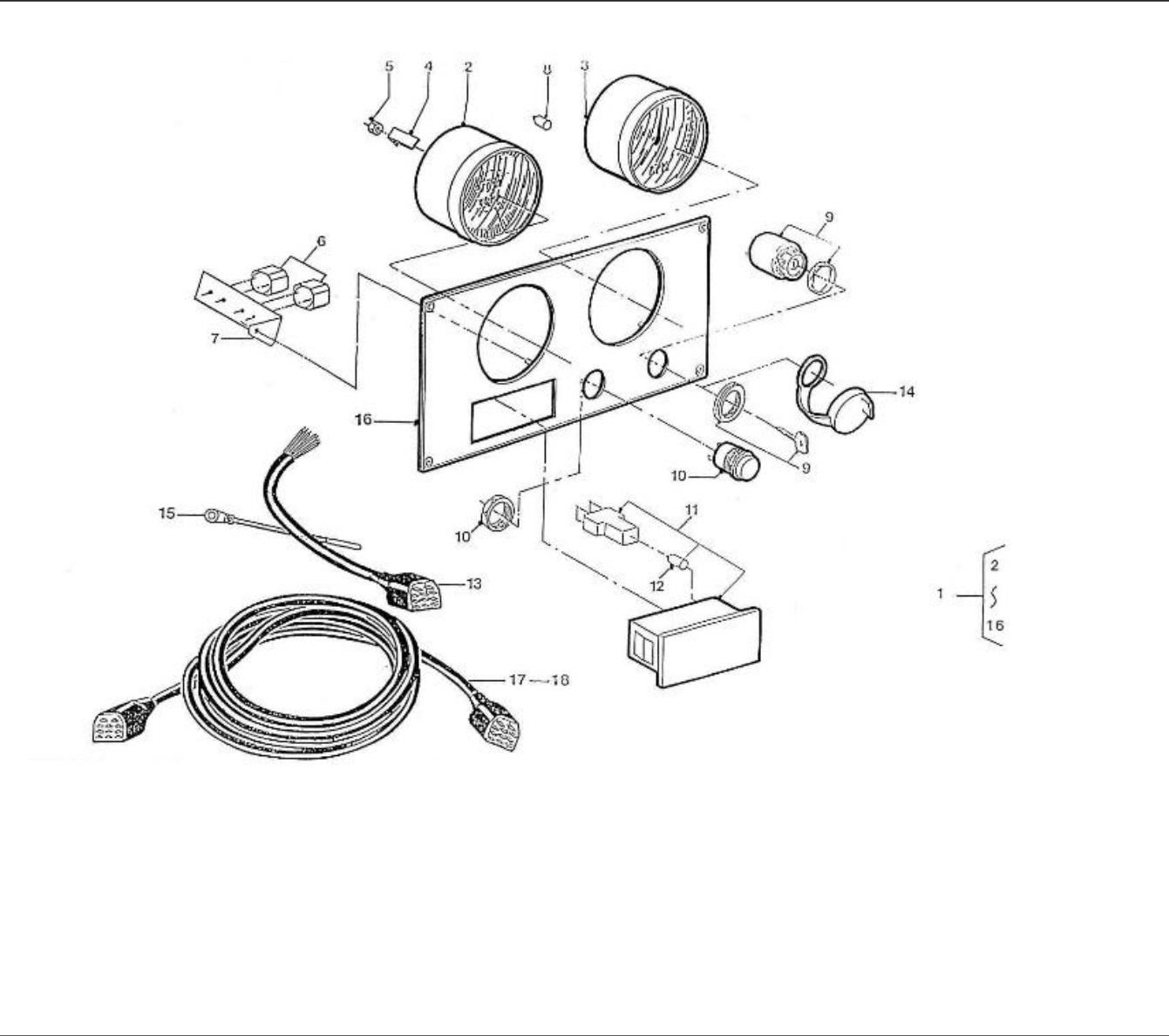


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Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Panel 2 instruments

N.	Item	Description	Qty	Notes
1	970302672	PANEL,2 INSTRUMENTS 12V CPL VD	1	
2	970301662	GAUGE,VDO,TEMP/VOLT 40-120,8-1	1	
3	970301642	GAUGE,VDO,TACH,4000 12-24V 2P	1	
4	970300920	CLAMP,INSTRUMENTS	8	
5	970301191	NUT,M 4 A2	8	
6	970302684	BUZZER,SONITRON SMA 24A P17.05	2	
7	970310182	SUPPORT	1	
8	970856011	BULB 12V-2W	2	
9	970302667	SWITCH,BOSCH STARTER + GLOWING	1	
10	970300967	BUTTON,PUSH	1	
11	970856005	LIGHT WARNING	1	
12	970856011	BULB 12V-2W	4	
13	970302663	WIRING,PANEL 2INSTR. ADDITION	1	
14	970304021	COVER	1	
15	970304019	CABLEBINDER,PLASTIC 4.8X195	1	
16	970302669	PLATE,PANEL 2 INSTR W/SW GLOW/	1	
17	970302665	WIRING,INTERMEDIATE 4MTR 11POS	1	
18	970302666	WIRING,INTERMEDIATE 8MTR 11POS	1	



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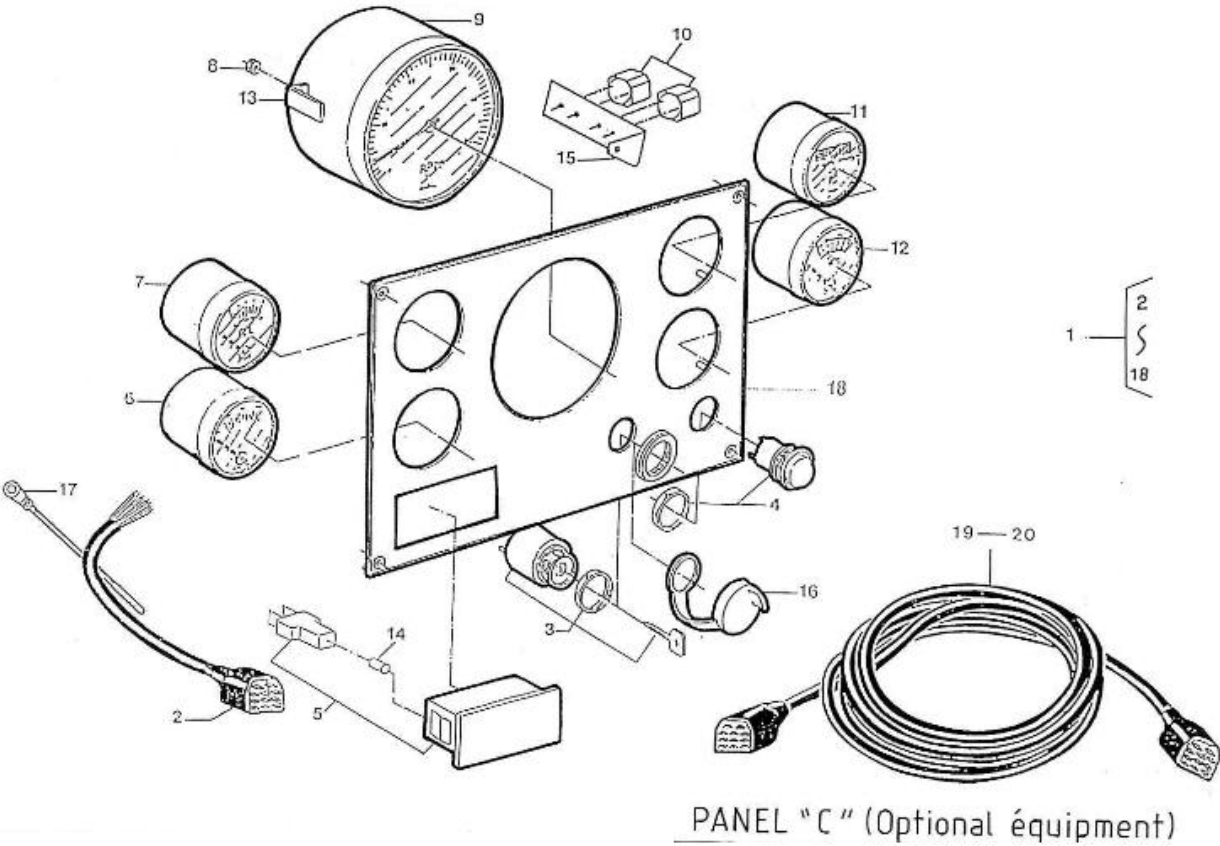
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

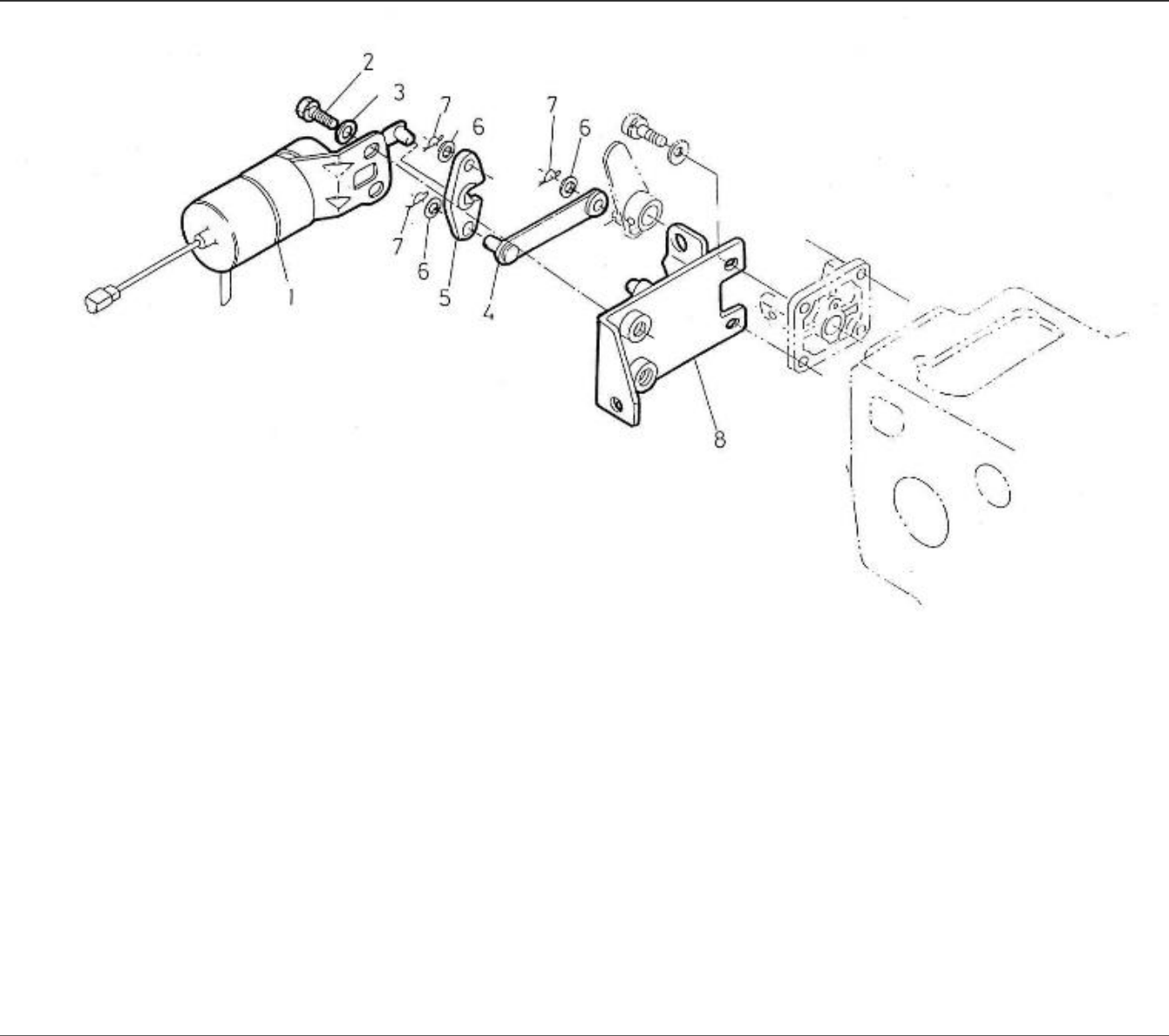
Subassembly: Panel 5 instruments

N.	Item	Description	Qty	Notes
1	674349	PANEL,1 INSTR.TACHO CPL VDO	1	
2	970304004	WIRING,PANEL 5INSTR. CPL. (11P	1	
3	970302667	SWITCH,BOSCH STARTER + GLOWING	1	
4	970300967	BUTTON,PUSH	1	
5	970856005	LIGHT WARNING	1	
6	970850603	THERM.V. 120C 12V D52	1	
7	970850705	OIL PRESSURE GAUGE 5B	1	
8	970301191	NUT,M 4 A2	12	
9	970300910	GAUGE,VDO,TACH,3000,W ,D 85	1	
10	970302684	BUZZER,SONITRON SMA 24A P17.05	2	
11	970300742	GAUGE,VDO,HOUR,2P,D 52	1	
12	970850801	VOLTMETER	1	
13	970300920	CLAMP,INSTRUMENTS	12	
14	970856011	BULB 12V-2W	9	
15	970310182	SUPPORT	1	
16	970304021	COVER	1	
17	970304019	CABLEBINDER,PLASTIC 4.8X195	1	
18	970300790	PLATE,PANEL 5 INSTRUMENTS VDO	1	
19	970302665	WIRING,INTERMEDIATE 4MTR 11POS	1	
20	970302666	WIRING,INTERMEDIATE 8MTR 11POS	1	



Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Electric stop

N.	Item	Description	Qty	Notes
1	970307362	SOLENOID,STOP	1	
2	970490919	BOLT,M 8X 16	2	
3	970301933	WASHER,PLAIN D 8	2	
4	970307363	LEVER,STOP(1)	1	
5	970307364	LEVER,STOP(2)	1	
6	970141326	WASHER, PLAIN D6	3	
7	970307365	PIN,SNAP	3	
8	970307366	SUPPORT,SOLENOID	1	

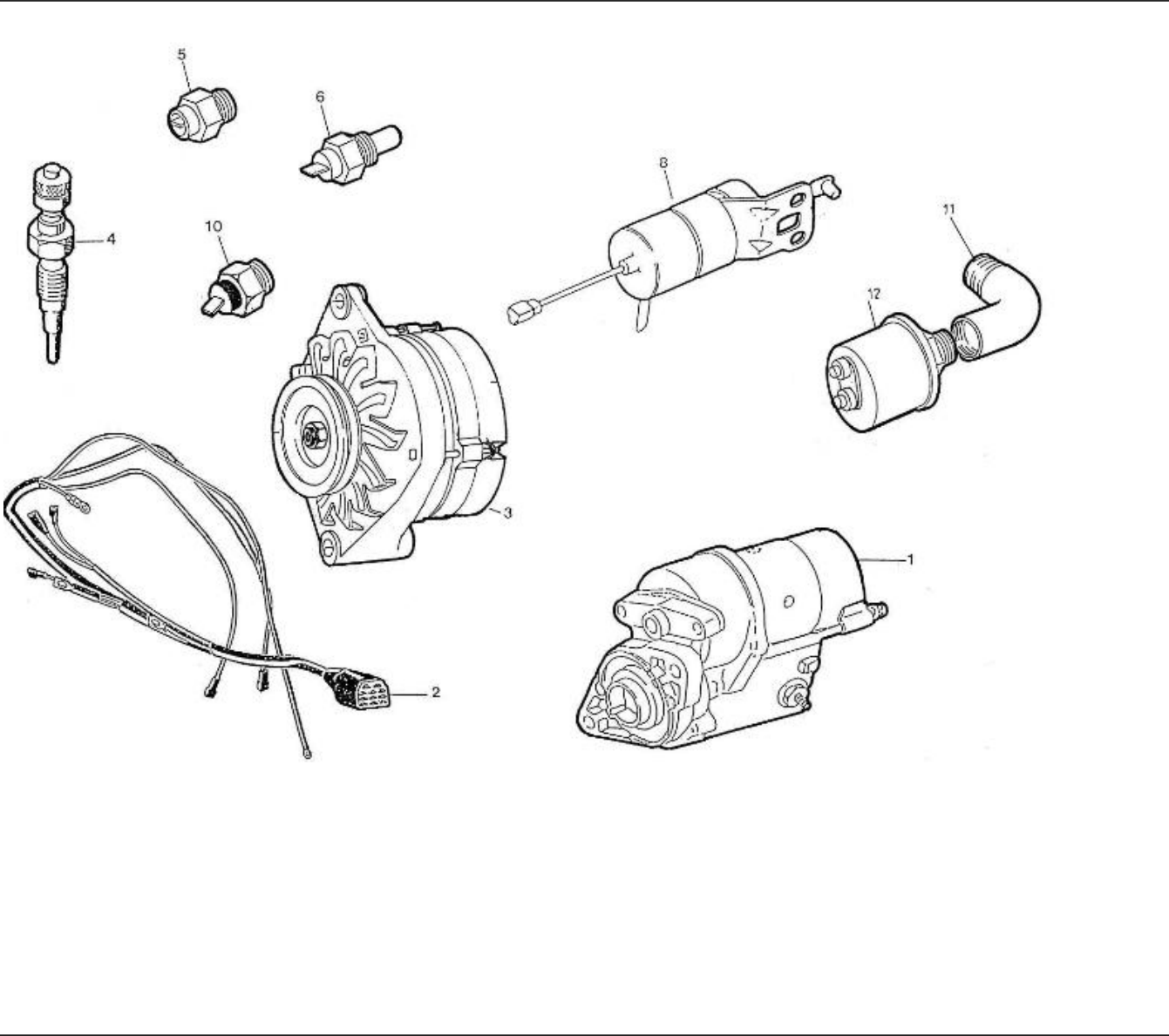


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Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Electrics

N.	Item	Description	Qty	Notes
1	970302070	STARTER,MOTOR 12V 0,8KW	1	
2	970302661D	WIRING	1	
3	970307522	ALTERNATOR,14V-60A	1	
4	970307393	GLOW PLUG	1	
5	970304054	TEMPERATURE SWITCH 1/8 1P 97°C	1	
6	970851602	WATER TEMPERATURE SENDER	1	
8	970307362	SOLENOID,STOP	1	
10	970851700	SWITCH,OIL	1	
11	970493207	ELBOW,1/8X10X1,5MF	1	
12	970307091	OIL PRESSURE SENDER	1	



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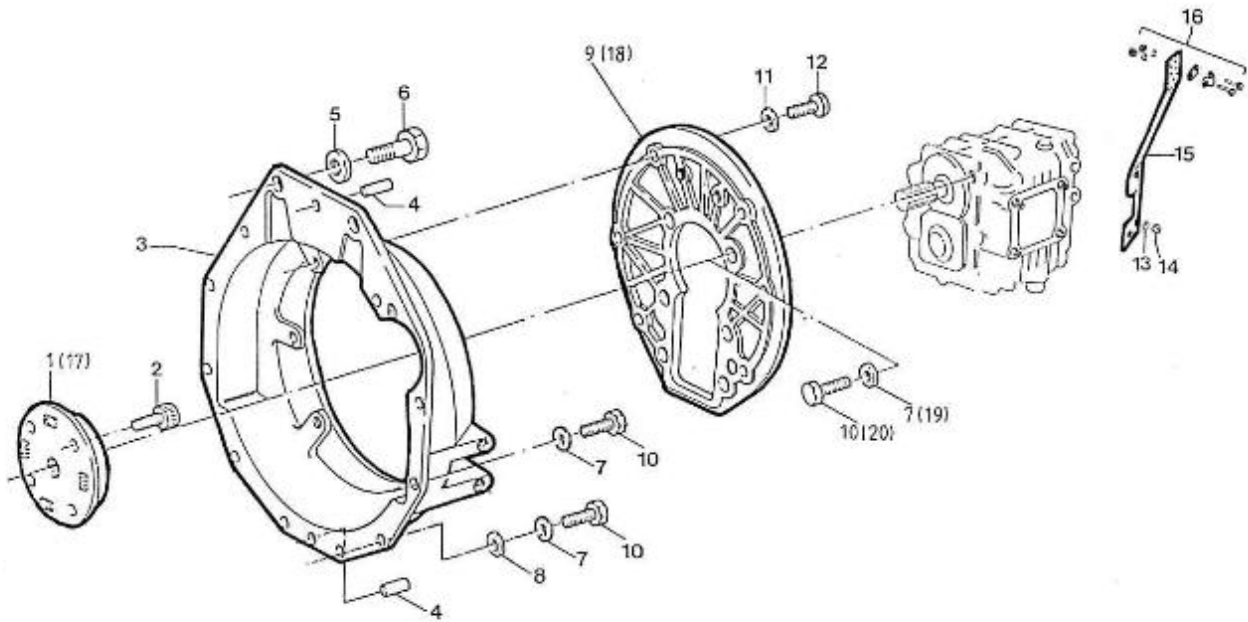
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Flywheel housing



N.	Item	Description	Qty	Notes
1	970776350	DAMPERPLATE	1	
2	970119147	BOLT, SOCK M 6X12	8	
3	970301628	HOUSING, FLYWHEEL 4.190	1	
4	970302149	PIN, CYLINDRICAL D10X 20	2	
5	970647606	WASHER, CORRUGATED D12	2	
6	970301736	BOLT, HEX M12X1,25X 30	2	
7	970119139	WASHER, CORRUGATED D8	16	
8	970119138	WASHER, SPRING D 8	2	
9	970301709	PLATE, ADAPTOR HBW50-100-150	1	
10	970119141	BOLT, HEX M8X 20	16	
11	970119137	WASHER, CORRUGATED D10	6	
12	970635508	BOLT, HEX M10X 25	6	
13	970119139	WASHER, CORRUGATED D8	2	
14	970027322	NUT, M 8	2	
15	970300373	SUPPORT, CONTROL HBW	1	
16	970835020	CLAMP	1	
17	970776650	DAMPERPLATE	1	
18	970302342	PLATE, ADAPTOR -HBW250-	1	
19	970119137	WASHER, CORRUGATED D10	6	
20	970635508	BOLT, HEX M10X 25	6	

Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

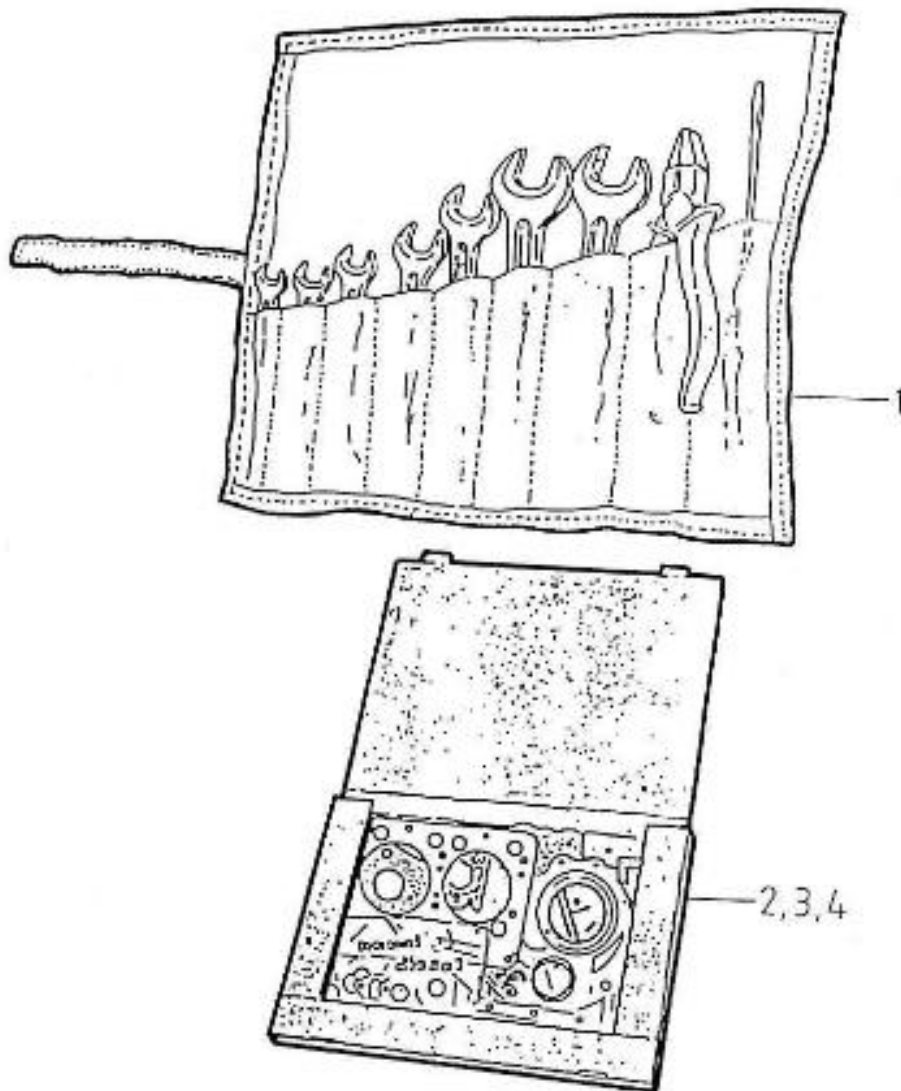
Subassembly: Reversing gear

N.	Item	Description	Qty	Notes
1	970027322	NUT,M 8	4	
2	970119139	WASHER,CORRUGATED D8	4	
3	970304053	STUD	4	
4	970632006	COVER,OIL COOLER HBW250	1	
5	970632002	GASKET,OIL COOLER HBW250	1	
6	970574550	HOUSING,OIL COOLER 4.240-5.300	1	
7	970892303	SOCKET,HOSE	2	
8	970300922	CLAMP,HOSE 26-38	2	
9	970776330	GEARBOX	1	
10	970307530	GEARBOX	1	
11	970777110	GEARBOX	1	
12	970777115	GEARBOX	1	
13	970776343	GEARBOX	1	
14	970776342	GEARBOX	1	
15	970776340	GEARBOX	1	
16	970776335	GEARBOX	1	
17	970300373	SUPPORT,CONTROL HBW	1	
18	970027322	NUT,M 8	2	
19	970119139	WASHER,CORRUGATED D8	2	
20	970300317	BOLT,HEX M 5X 16	2	
21	970300315	CLAMP,CABLE	1	
22	970300316	PLATE,CLAMP	1	
23	970835020	CLAMP	1	
24	970302630	HOSE	1	
25	970307225	PIPE	1	
26	970304071	CLAMP	1	
27	970439910	BOLT,HEX M 6X 16	1	
28	970635460	NUT,M 6	1	
29	970302233	SUPPORT,PIPE CLAMP	1	
30	970119149	WASHER, SPRING D 6	1	
31	970830123	STRAP	1	

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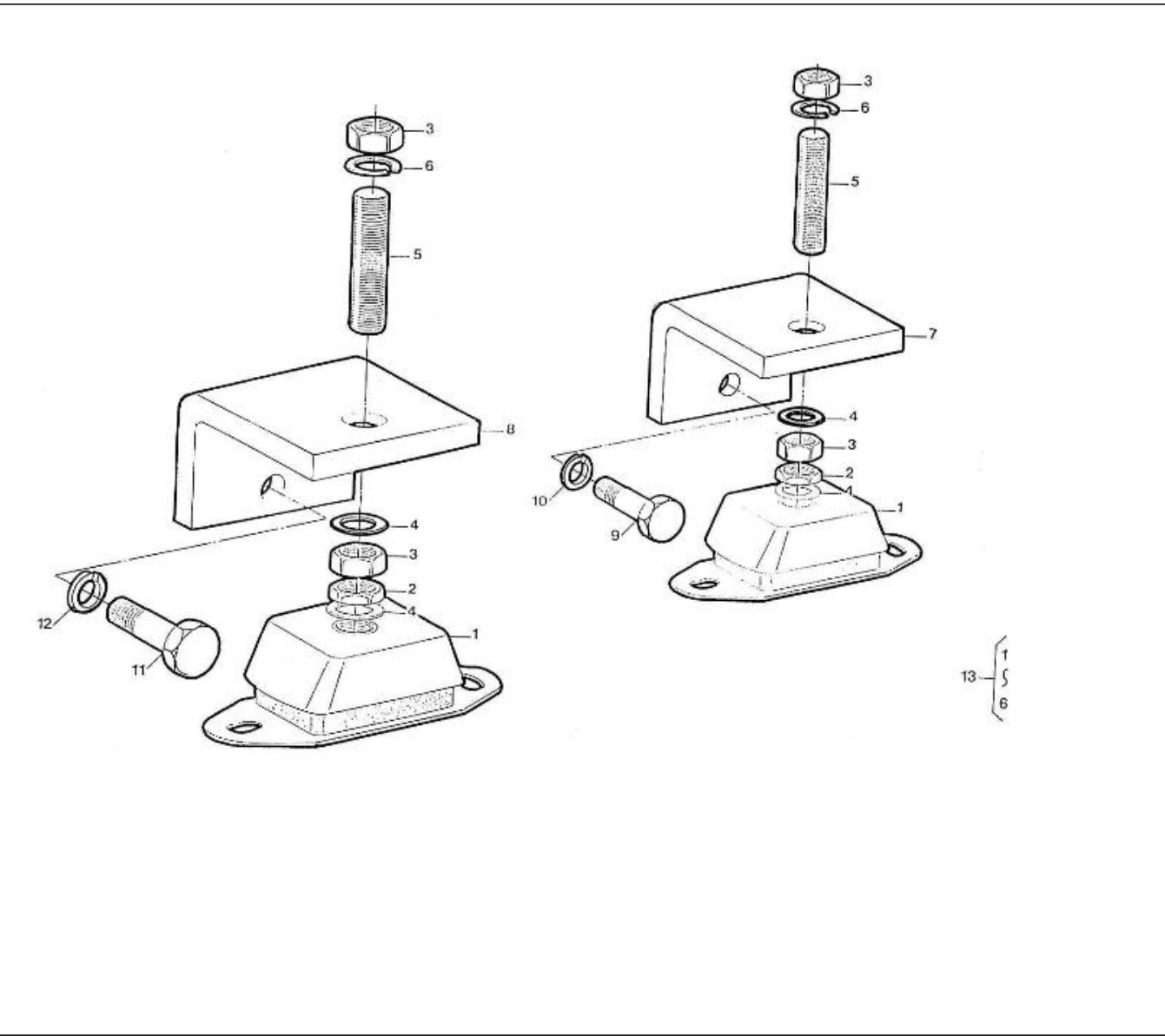
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Brand: NanniDiesel	N.	Item	Description	Qty	Notes
Model: Moteur 4.220HE	1	970609901	KIT,TOOLS	1	
Version: Standard	2	970307410	GASKET SET	1	
Subassembly: Tools gasket set	3	970307411	GASKET SET	1	
	4	970302130	SET,GASKET MARINE 4.190	1	



Brand: NanniDiesel
Model: Moteur 4.220HE
Version: Standard
Subassembly: Engine mount

N.	Item	Description	Qty	Notes
1	970304011	MOUNT,RUBBER CPL.35 MEDIUM	4	
2	970639203	NUT,M16 LOW	4	
3	970896520	NUT	8	
4	970649108	WASHER,PLAIN D16	8	
5	970609116	STUD,M16X100	4	
6	970649109	WASHER,SPRING D16	4	
7	970301704	SUPPORT,MOUNT FRONT 4.190	2	
8	970301419	SUPPORT,MOUNT REAR	2	
9	970304013	BOLT,HEX M10X1.25X 35	4	
10	970119136	WASHER,SPRING D10	4	
11	970301736	BOLT,HEX M12X1,25X 30	4	
12	970409154	WASHER,SPRING D12	4	
13	970304011	MOUNT,RUBBER CPL.35 MEDIUM	4	Jusqu'au 303000 / R.P 48190023
13	48190023	PLOT MEDIUM 35SH M16 REMPLACE 970304011	4	A partir 303001



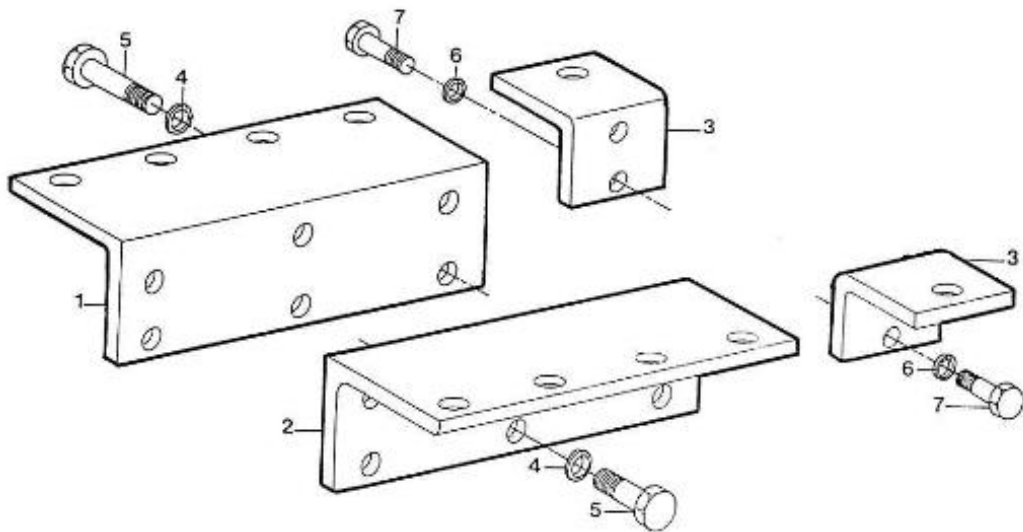
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Rigid base

N.	Item	Description	Qty	Notes
1	970302525	SUPPORT,MOUNT	1	
2	970302524	SUPPORT,MOUNT	1	
3	970301419	SUPPORT,MOUNT REAR	2	
4	970409154	WASHER,SPRING D12	12	
5	970301736	BOLT,HEX M12X1,25X 30	12	
6	970119136	WASHER,SPRING D10	4	
7	970499051	BOLT,HEX M10X1,25X 30	4	



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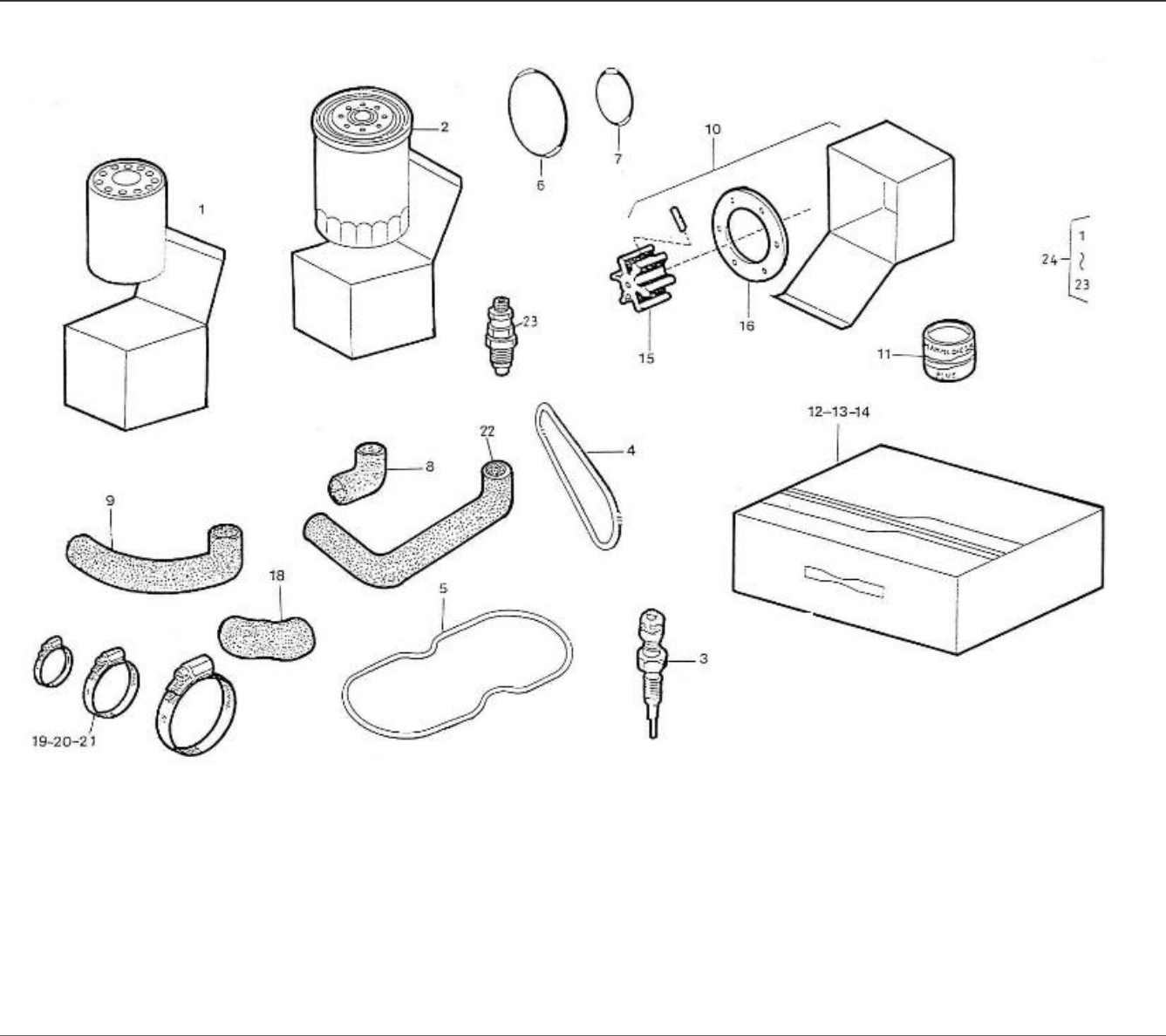
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Spare parts kit

N.	Item	Description	Qty	Notes
1	970622350	FILTER,FUEL	1	
2	970603003	FILTER,ELEMENT OIL 4.180/90	1	
3	970307393	GLOW PLUG	1	
4	970307404	V-BELT	1	
5	970301995	GASKET,COVER CYL:HEAD 4.190	1	
6	970301719	O-RING,68,00X4,00	2	
7	970154025	O-RING,28,17X3,53	1	
8	970301713	HOSE,ELBOW COVER HEATEX.4.190	1	
9	970301718	HOSE,WATER RETURN D32-34	1	
10	970307475	REPAIR KIT	1	
11	970301521	PAINT,NANNI BLUE 125CC	1	
12	970310008	CASE	1	
13	970301347	INSERT,CASE	1	
14	970301348	INSERT,CASE BOTTOM	1	
15	48100740	+++ R.P. 970544310 +++++ ROTOR 8 PALES(pour	1	
16	970301670	GASKET	1	
17	970856011	BULB 12V-2W	1	
18	970301714	HOSE,D32 COVER THERMO.4.190	1	
19	970604526	CLAMP,HOSE 22-32	2	
20	970300922	CLAMP,HOSE 26-38	2	
21	970604533	CLAMP,HOSE 32-44	1	
22	970307424	HOSE	1	
23	970307387	KIT,NOZZLE HOLDER	1	
24	970307488	MAINTENANCE KIT	1	



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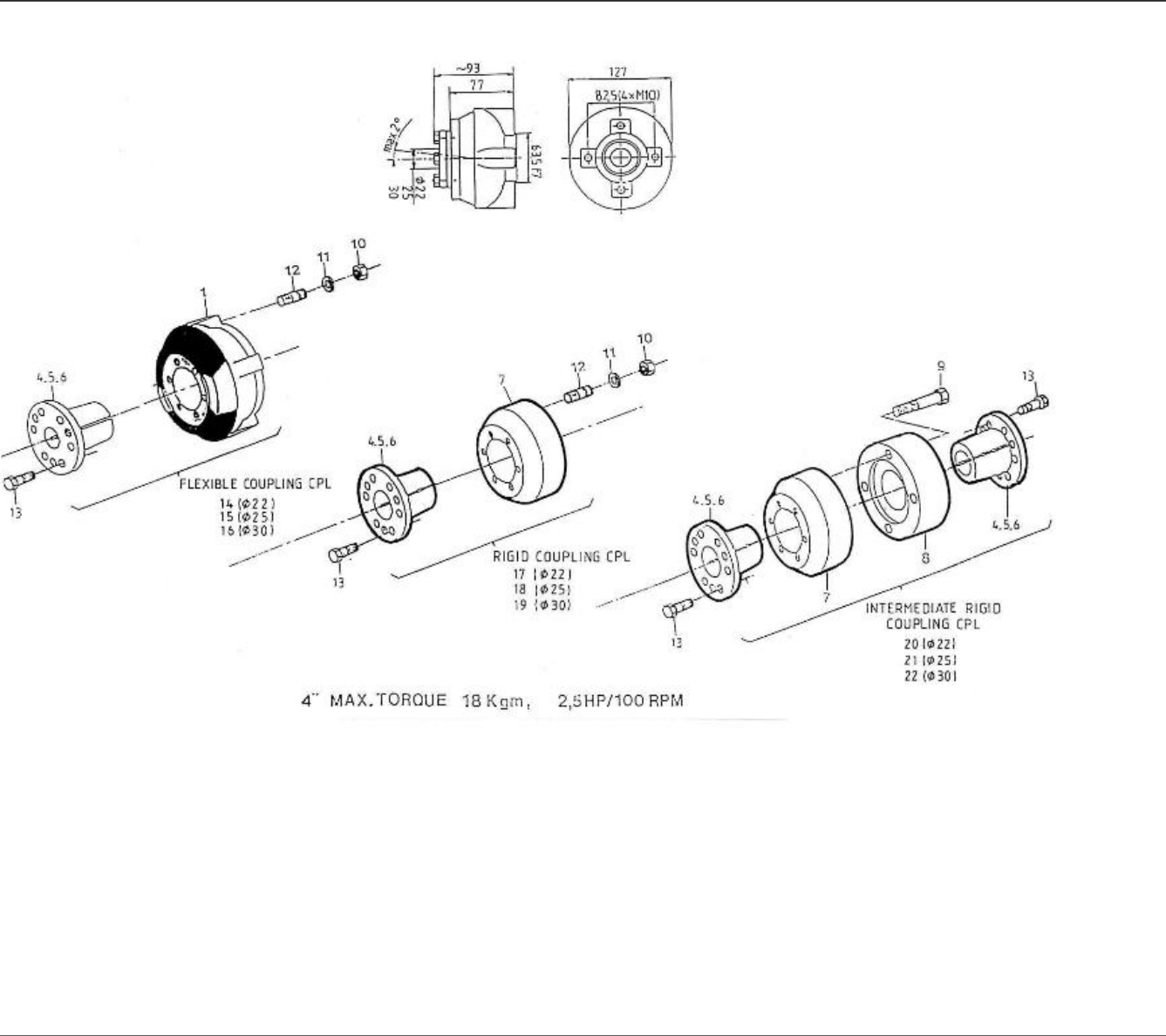
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Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Shaft coupling



N.	Item	Description	Qty	Notes
1	970300733	FLEXIBLE COUPLING 4 P	1	
4	970301226	"CONE,CLAMPING 4\" 22"	1	
5	970301104	"CONE,CLAMPING 4\" 25"	1	
6	970301105	"CONE,CLAMPING 4\" 30"	1	
7	970301222	COUPLING	1	
8	970301221	COUPLING	1	
9	970609157	BOLT,SOCK M10X 55	4	
10	970119143	NUT, M10	4	
11	970119136	WASHER,SPRING D10	4	
12	970621020	STUD,M10X 22	4	
13	970409603	BOLT,HEX M 8X 25	6	
14	970307180	FLEXIBLE COUPLING	1	
15	970307181	FLEXIBLE COUPLING	1	
16	970307182	FLEXIBLE COUPLING	1	
17	970307183	FLEXIBLE COUPLING	1	
18	970307184	FLEXIBLE COUPLING	1	
19	970307185	FLEXIBLE COUPLING	1	
20	970307186	FLANGE	1	
21	970307187	FLANGE	1	
22	970307188	+++ PLUS DIFFUSE ++++++	1	

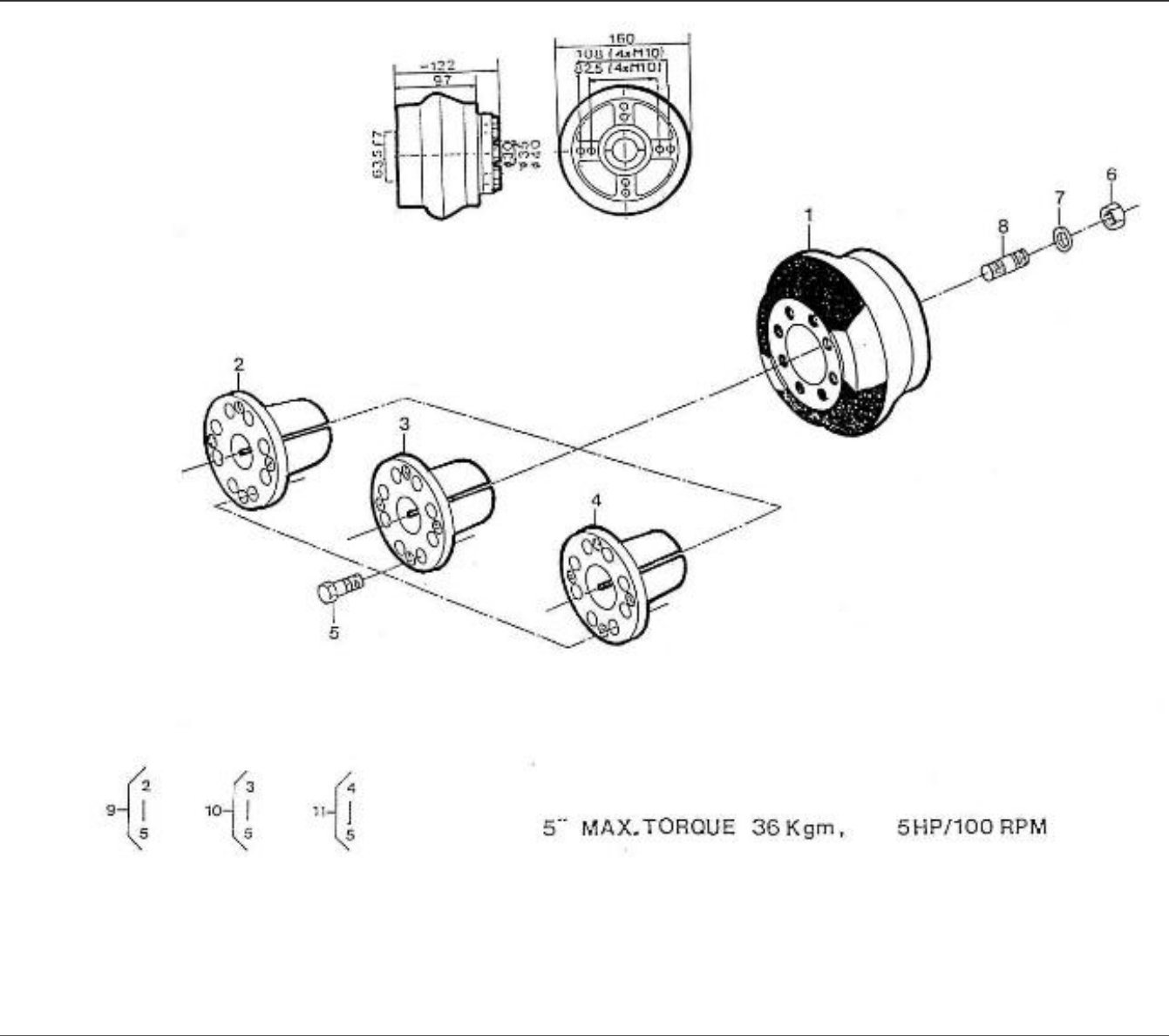
Brand: NanniDiesel

Model: Moteur 4.220HE

Version: Standard

Subassembly: Shaft coupling 5

N.	Item	Description	Qty	Notes
1	970301100	FLEXIBLE COUPLING 5 P	1	
2	970301106	CONE,CLAMPING 5 D30	1	
3	970301107	CONE,CLAMPING 4 D35	1	
4	970301108	"CONE,CLAMPING 5"" 40"	1	
5	970409603	BOLT,HEX M 8X 25	8	
6	970119143	NUT, M10	4	
7	970119136	WASHER,SPRING D10	4	
8	970621020	STUD,M10X 22	4	
9	970301106	CONE,CLAMPING 5 D30	1	
10	970301454	CONE,CLAMPING	1	
11	970301108	"CONE,CLAMPING 5"" 40"	1	



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