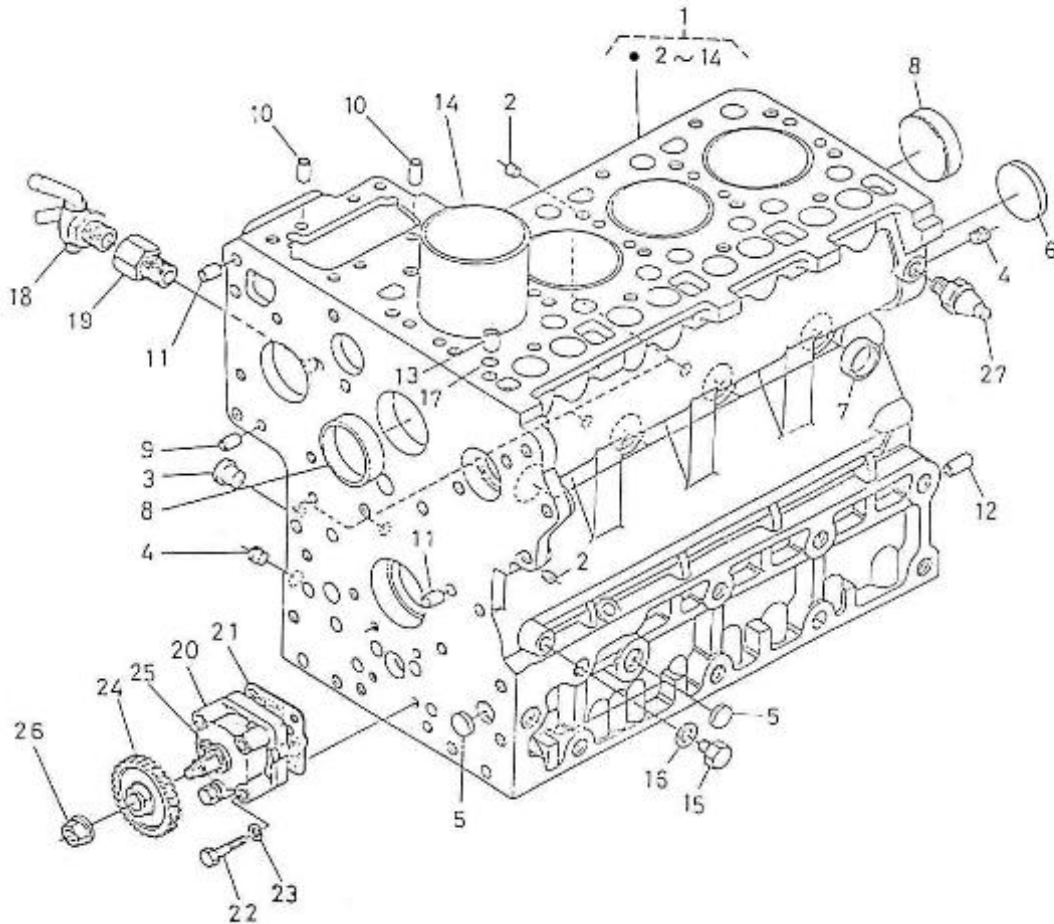


Filtre(s) :

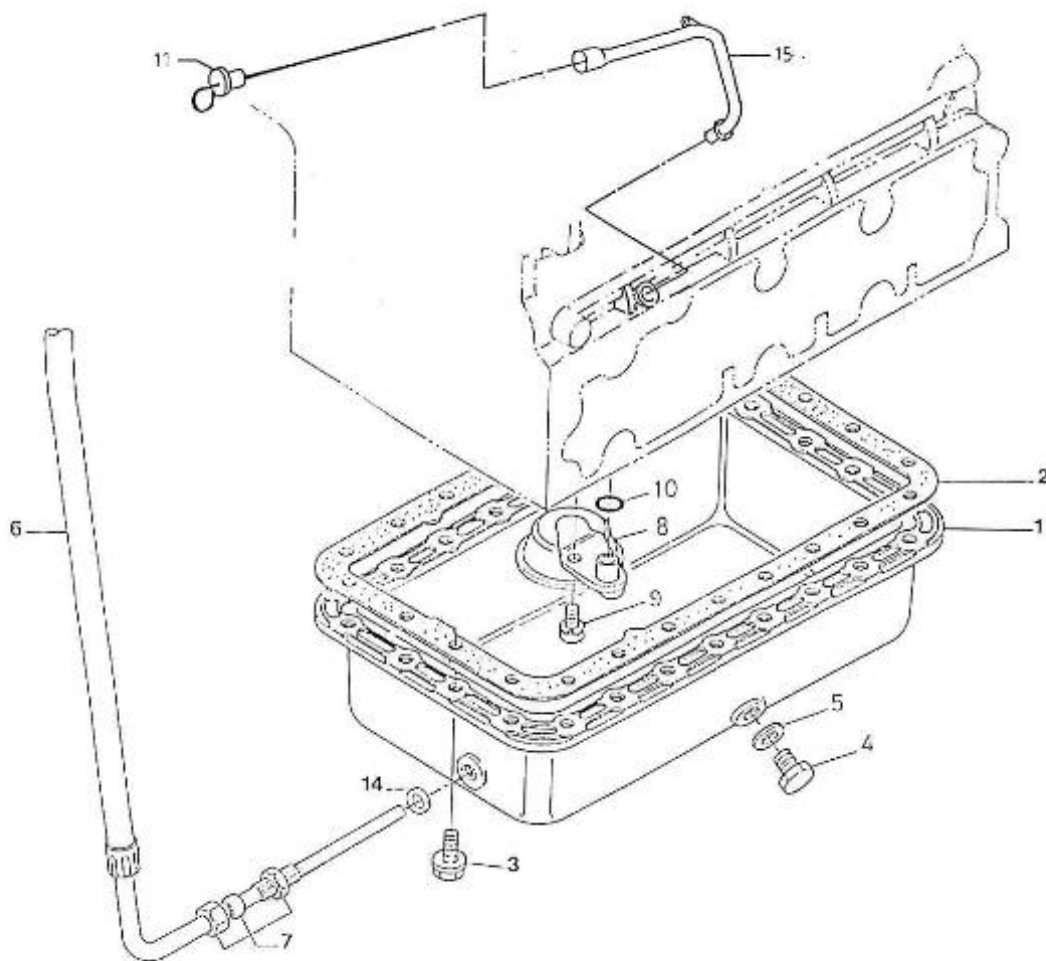
- type: 4.190HE STANDARD ENGINE

## 4.190HE STANDARD ENGINE / ENGINE BLOCK



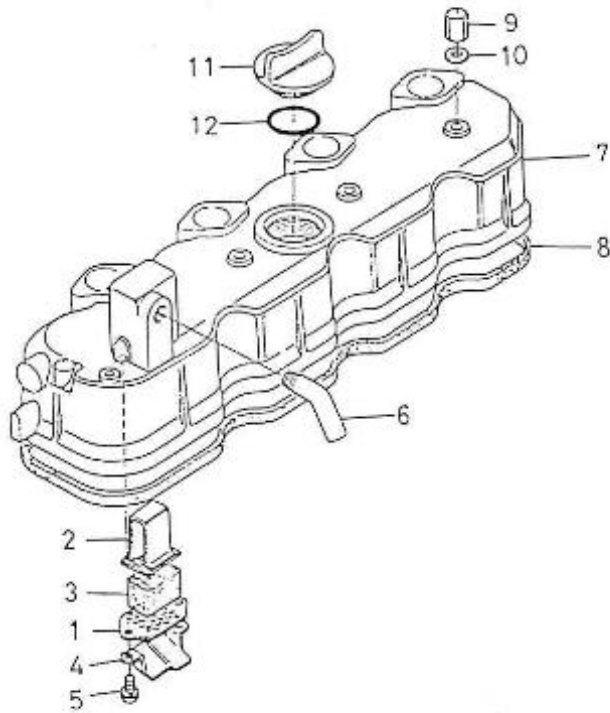
Part number	Item	Désignation article	Quantity
970301900	1	CRANKCASE,CPL.4.190	1
970490108	2	PLUG,SOCK	6
970301901	3	PLUG	2
970490109	4	PLUG,SOCK	2
970301903	5	PLUG	3
970301904	6	PLUG,EXPANSION	1
970301905	7	CAP,SEALING	6
970301906	8	CAP,FREEZE	2
970301907	9	PIN,CYLINDRICAL	2
970490122	10	PIN,CYLINDRICAL	2
970301908	11	PIN,CYLINDRICAL	2
970301909	12	PIN,CYLINDRICAL	1
970490112	13	PIN,PIPE	1
970301910	14	LINER,CYLINDER	4
970301912	15	PLUG	1
970491131	16	WASHER,SEAL	1
970490116	17	O-RING	1
970301918	18	TAP,DRAIN	1
970301911	19	NIPPLE,REDUCTION	1
970301913	20	PUMP,OIL CPL.4.190	1
970301914	21	GASKET,OIL PUMP	1
970300276	22	BOLT,HEX M 6X 50	4
970119149	23	WASHER, SPRING D 6	4
970301915	24	GEAR,OIL PUMP DRIVE	1
970493118	25	KEY,FEATHER H-HE	1
970301916	26	NUT	1
970851700	27	SWITCH,OIL	1

#### 4.190HE STANDARD ENGINE / OIL SUMP - OIL PUMP



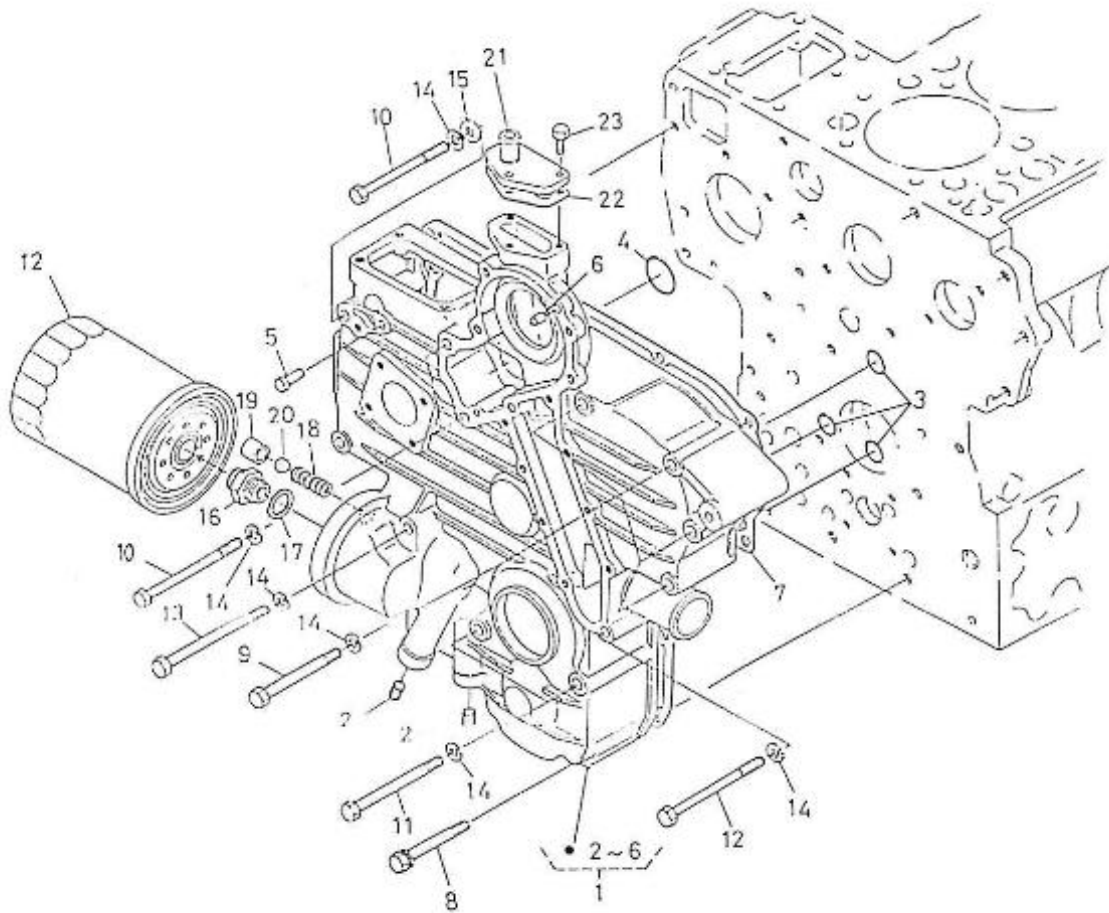
Part number	Item	Désignation article	Quantity
970301947	1	PAN,OIL 4.190	1
970301948	2	GASKET,OIL PAN 4.190	1
970301949	3	BOLT	24
970490127	4	PLUG, OIL DRAIN	1
970432132	5	GASKET,RING	1
970304102	6	DRAIN OIL PIPE	1
970302421	6	HOSE,OILEXTRACTION 4.190 CPL	1
970301950	8	FILTER,OIL PAN 4.190	1
970490919	9	BOLT,M 8X 16	1
970301951	10	O-RING	1
970302954	11	O-RING	1
970301952	11	DIPSTICK,OIL LEVEL 4.190	1
970300306	12	GASKET,RING D14	2
970432515	13	BOLT,BANJO M14X1,5	1
970300199	14	GASKET,RING D16	1
970302595	15	GUIDE,TUBE OIL DIPSTICK 6.280H	1

#### 4.190HE STANDARD ENGINE / CYLINDER HEAD COVER



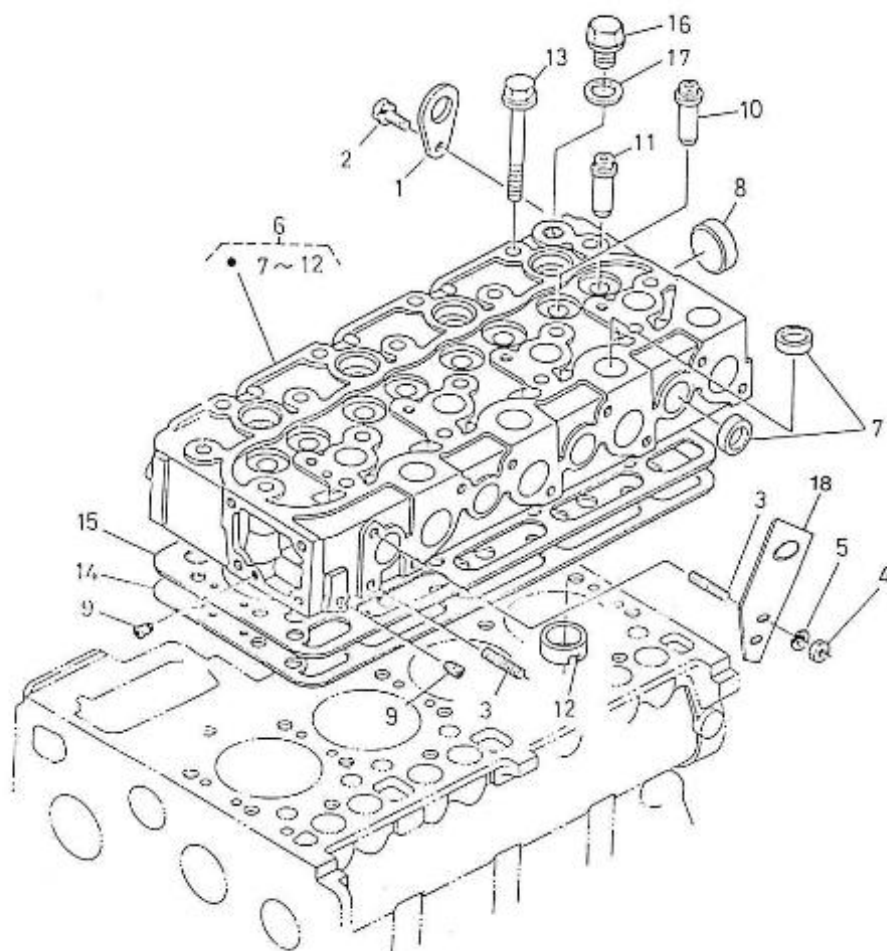
Part number	Item	Désignation article	Quantity
970301990	1	PLATE,BREATHER ELEMENT N01	1
970490302	2	HOUSING,BREATHER ELEMENT	1
970490305	3	FILTER,BREATHER ELEMENT	1
970301991	4	SHIELD,OIL BREATHER	1
970490307	5	SCREW,M 5X 10	2
970301993	6	PIPE,BREATHER	1
970301994	7	COVER,CYLINDER HEAD 4.190	1
970301995	8	GASKET,COVER CYL:HEAD 4.190	1
970301996	9	NUT,CAP	4
970491131	10	WASHER,SEAL	4
970490510	11	CAP,FILLING OIL	1
970490511	12	O-RING	1

#### 4.190HE STANDARD ENGINE / TIMING GEAR CASE



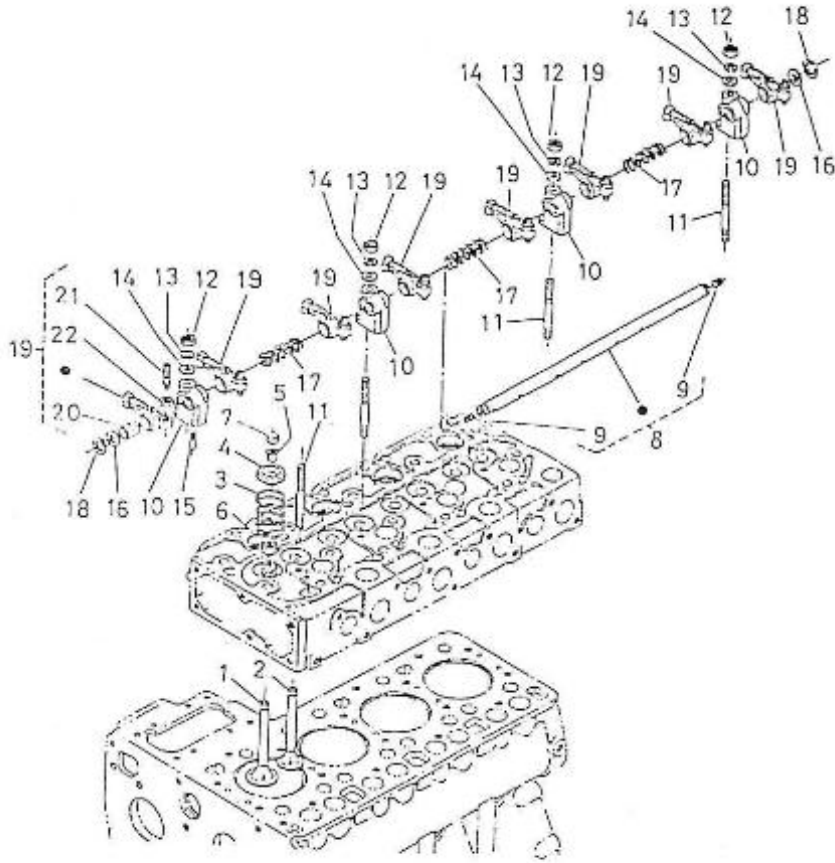
Part number	Item	Désignation article	Quantity
970307304	1	ASSY CASE,GEAR	1
970140202	2	PLUG, SOCK	2
970301922	3	O-RING	3
970301923	4	O-RING	1
970490204	5	PIN,TIMING COVER	1
970301908	6	PIN,CYLINDRICAL	2
970301925	7	GASKET,TIMING CASE 4.190	1
970301926	8	BOLT,M 8X 60	2
970301927	9	BOLT,M 8X 70	5
970301929	10	BOLT	2
970301928	11	BOLT,M 8X 80	4
970603003	12	FILTER,ELEMENT OIL 4.180/90	1
970301930	13	BOLT,M 8X 95	2
970490904	14	WASHER,SPRING D 8	13
970301933	15	WASHER,PLAIN D 8	1
970302072	16	NIPPLE	1
970302073	17	GASKET,RING	1
970302074	18	SPRING	1
970302075	19	SEAT,VALVE	1
970302076	20	BEARING,BALL	1
970301931	21	FLANGE,WATER RETURN	1
970301932	22	GASKET,FLANGE W/RETURN	1
970491536	23	BOLT,M 6X 20	3

#### 4.190HE STANDARD ENGINE / CYLINDER HEAD



Part number	Item	Désignation article	Quantity
970490901	1	HOOK,ENGINE 2.60-3.90-4.110	1
970490919	2	BOLT,M 8X 16	1
970301935	3	STUD	2
970490903	4	NUT,M 8	2
970490904	5	WASHER,SPRING D 8	2
970301936	6	HEAD,CYLINDER CPL 4.190	1
970301937	7	CAP,FREEZE	12
970301938	8	CAP,FREEZE	1
970490107	9	PLUG,SOCK	2
970301939	10	GUIDE,VALVE INTAKE 4.190	4
970301940	11	GUIDE,VALVE EXHAUST	4
970302398	12	CHAMBER,COMBUSTION	4
970301941	13	BOLT,CYL.HEAD	18
970301944	14	GASKET,CYL:HEAD 4.190	1
970301945	15	SHIM,CYLINDER HEAD 4.190	1
970150915	16	PLUG,CYL.HEAD	1
970150919	17	WASHER,SEAL	1
970302147	18	HOOK,ENGINE 4.190	1

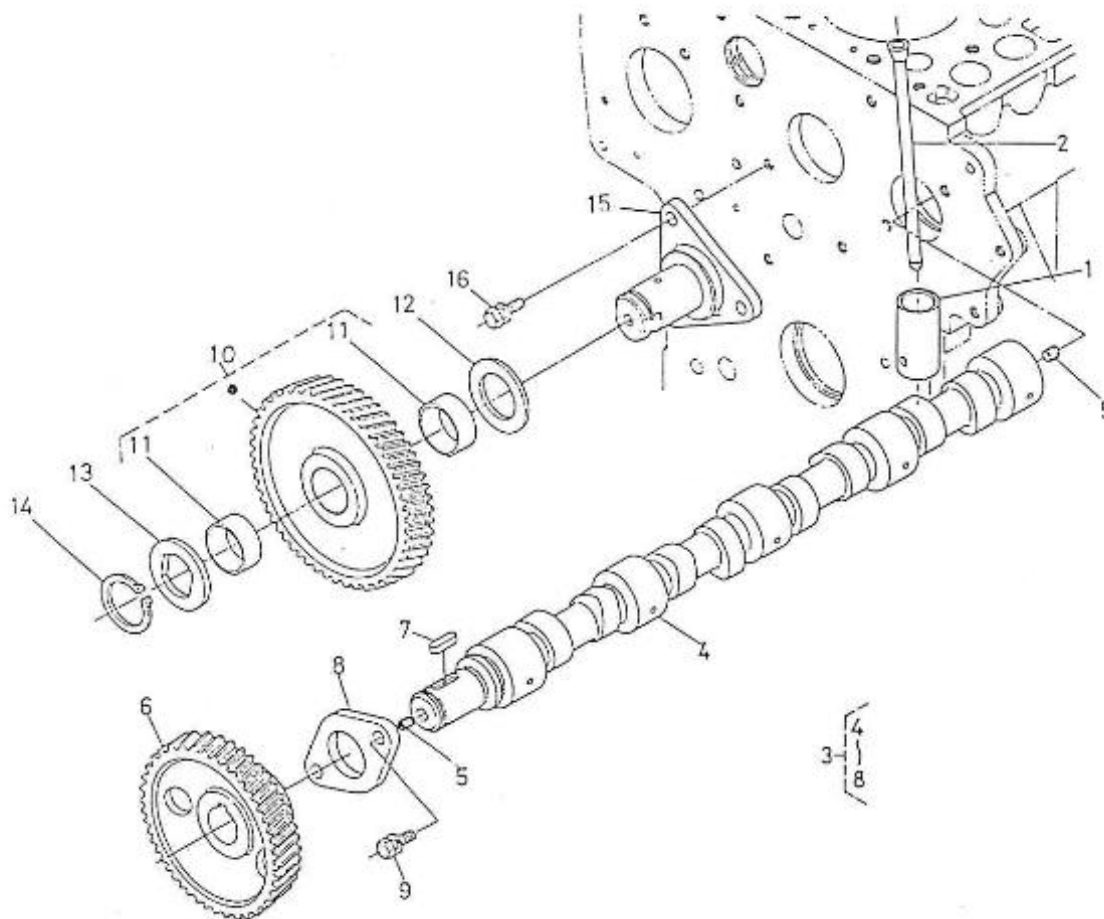
#### 4.190HE STANDARD ENGINE / VALVES AND SPRINGS





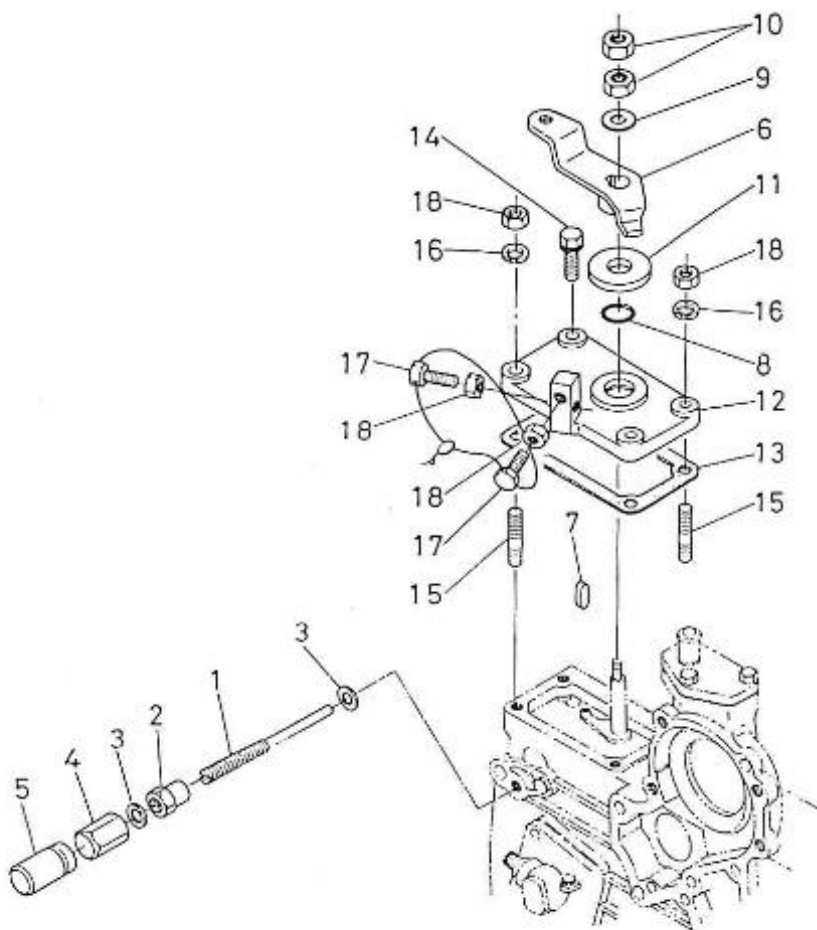
Part number	Item	Désignation article	Quantity
970301924	1	VALVE,INTAKE 4.190	4
970302004	2	VALVE,EXHAUST	4
970302005	3	SPRING,VALVE	8
970302006	4	RETAINER,VALVE SPRING	8
970302007	5	COLLET,VALVE SPRING	16
970302008	6	SEAL,VALVE STEM	8
970302009	7	CAP,VALVE	8
970302010	8	SHAFT,ROCKER ARM 4.190	1
970313711	9	SCREW,SET	2
970302012	10	BRACKET,ROCKER ARM	4
970302013	11	STUD	4
970490903	12	NUT,M 8	4
970490904	13	WASHER,SPRING D 8	4
970301933	14	WASHER,PLAIN D 8	4
970302014	15	SCREW,SET	1
970302015	16	WASHER	2
970302016	17	SPRING,ROCKER ARM	3
970302017	18	CIR-CLIP,EXTERNAL	2
970307402	19	ASSY ROCKER ARM	8
970302020	20	BUSHING,ROCKER ARM	8
970302019	21	SCREW,ADJUSTING	8
970302021	22	NUT	8

#### 4.190HE STANDARD ENGINE / CAMSHAFT



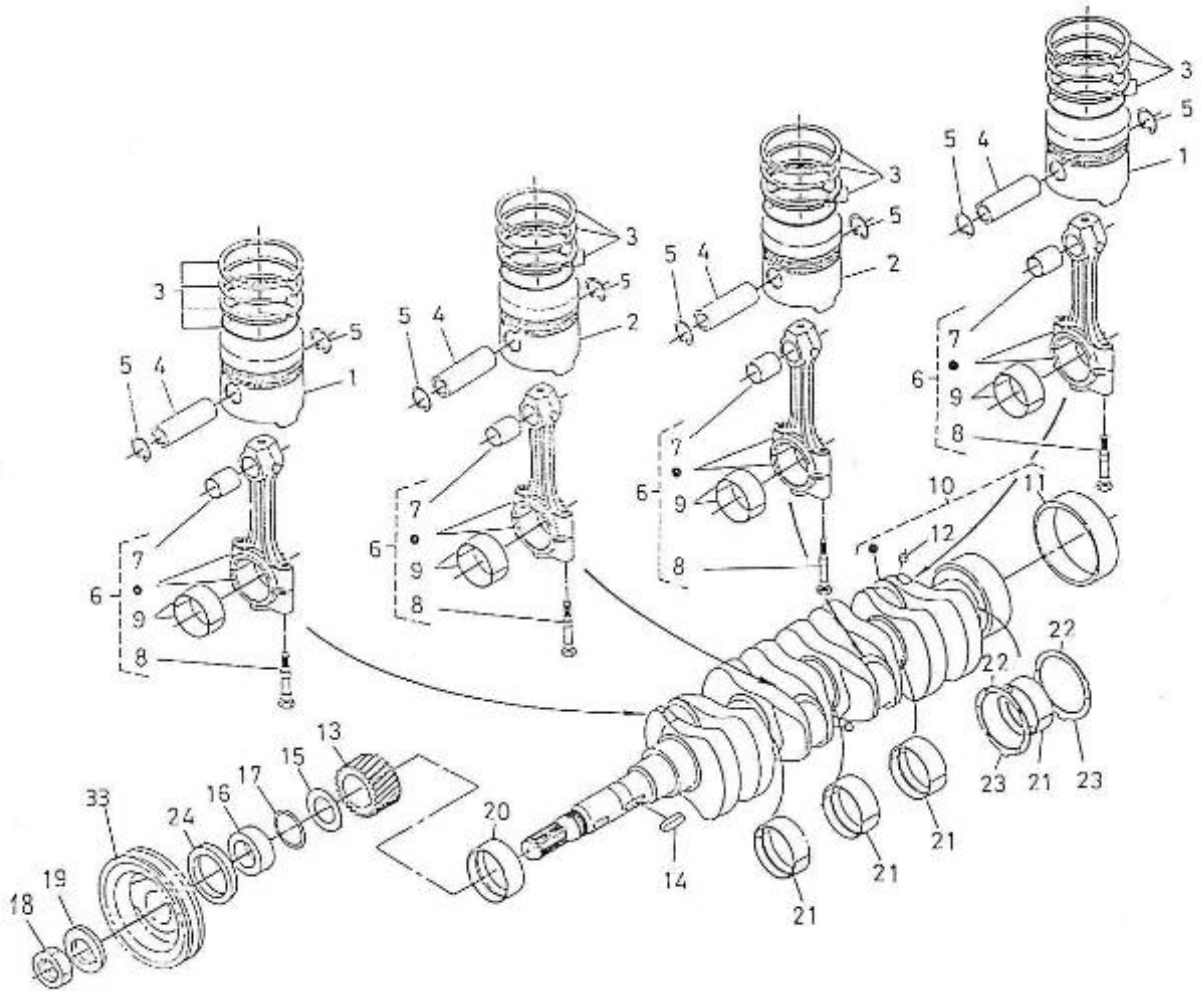
Part number	Item	Désignation article	Quantity
970307317	1	TAPPET	8
970302040	2	ROD,PUSH	8
970302041	3	CAMSHAFT,CPL.4.190	1
970302041	4	CAMSHAFT,CPL.4.190	1
970302043	5	SCREW,SET	2
970301966	7	KEY,FEATHER	1
970302045	8	STOPPER,CAMSHAFT	1
970491134	9	BOLT,M 8X 18	2
970302046	10	GEAR,IDLE CPL.	1
970302047	11	BUSHING,IDLE GEAR	2
970302048	12	COLLAR,IDLE GEAR N01	1
970302049	13	COLLAR,IDLE GEAR N02	1
970302050	14	CIR-CLIP,EXTERNAL	1
970302051	15	SHAFT,IDLE GEAR	1
970491134	16	BOLT,M 8X 18	3

#### 4.190HE STANDARD ENGINE / ACCELERATOR



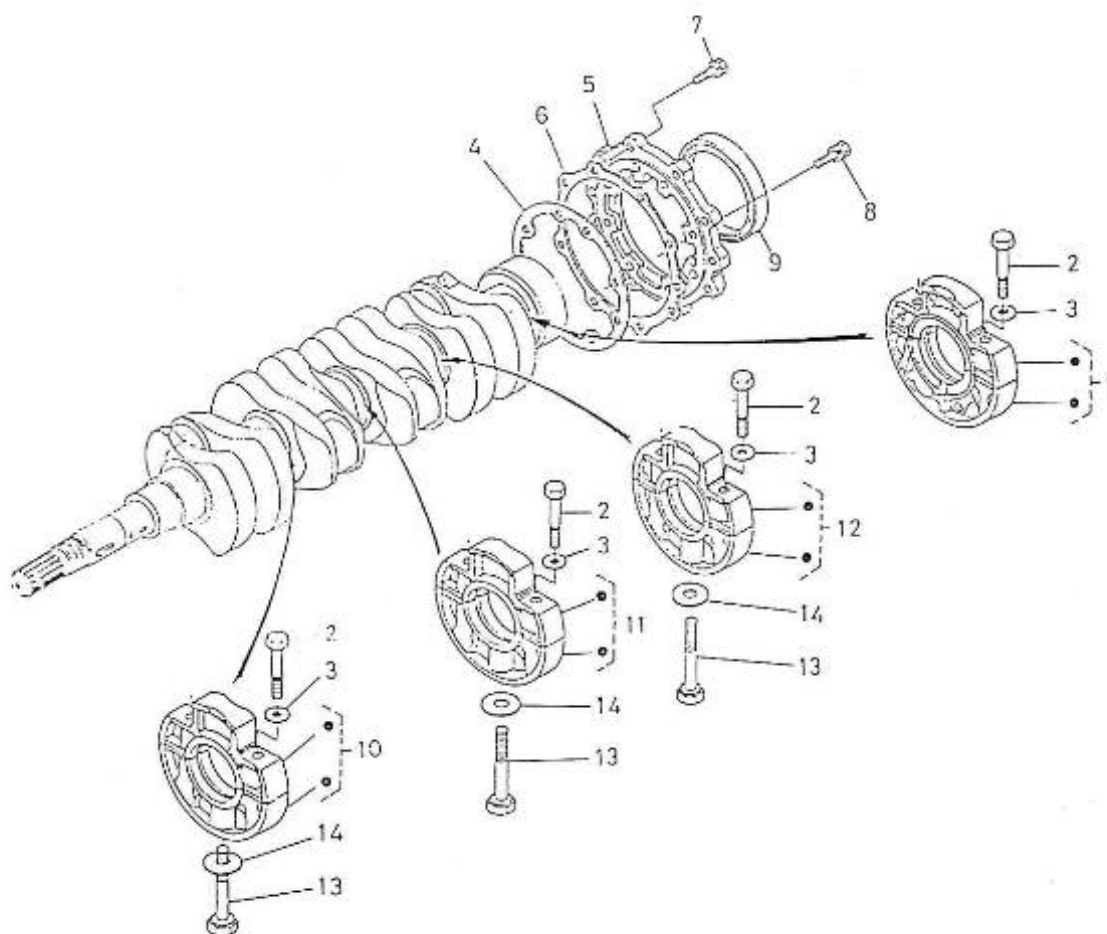
Part number	Item	Désignation article	Quantity
970302022	1	SCREW,ADJUSTING	1
970140402	2	NUT	1
970150403	3	RING,SEAL	2
970140504	4	NUT, CAP M8	1
970302411	5	CAP,NUT	1
970302023	6	LEVER,SPEED CONTROL	1
970143118	7	KEY,FEATHER	1
970302024	8	O-RING	1
970302025	9	WASHER,PLAIN D 8	1
970302026	10	NUT,M 8	2
970302027	11	SPACER,GOVERNOR	1
970302028	12	COVER,SPEED CONTROL 4.190	1
970302029	13	GASKET,COVER SPEED CONTROL	1
970491536	14	BOLT,M 6X 20	2
970490224	15	STUD	2
970119149	16	WASHER, SPRING D 6	2
970141301	17	BOLT, STOPPER ADJ.	2
970151133	18	NUT,M 6	4

#### 4.190HE STANDARD ENGINE / CRANKSHAFT-PISTONS



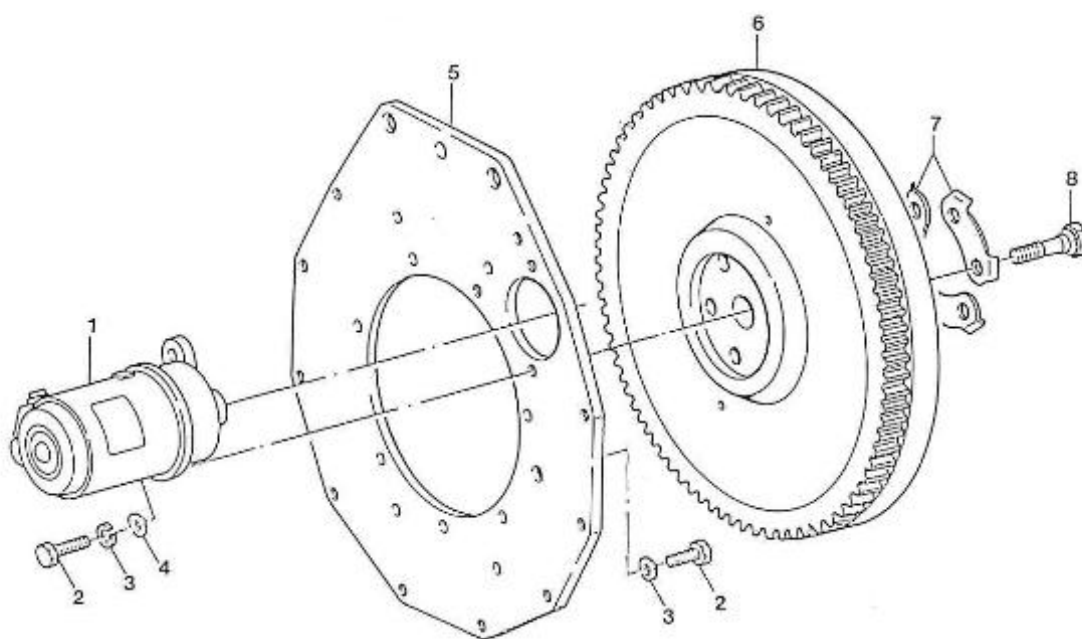
Part number	Item	Désignation article	Quantity
970301954	1	PISTON,STD.4.190	2
970302401	2	PISTON,STD.4.190	2
970301955	3	SET,PISTON RING STD.	4
970301956	4	PIN,PISTON	4
970301957	5	CIR-CLIP	8
970301958	6	ROD,CONNECTING CPL.4.190	4
970301959	7	BUSH,CONN.ROD	4
970301934	8	BOLT,CONN.ROD	8
970301960	9	METAL,CONN.ROD	8
970301961	10	CRANKSHAFT,CPL.4.190	1
970301962	11	SLEEVE,CRANKSHAFT	1
970302400	12	BEARING,BALL	4
970301965	13	GEAR,CRANKSHAFT	1
970301966	14	KEY,FEATHER	1
970301967	15	SLINGER,OIL	1
970301968	16	COLLAR,CRANKSHAFT	1
970301969	17	O-RING	1
970301970	18	NUT,CRANKSHAFT	1
970301971	19	WASHER,CRANKSHAFT	1
970301972	20	METAL,CRANKSHAFT 1	1
970301973	21	METAL,CRANKSHAFT 2	8
970301974	22	METAL,SIDE 1	2
970301975	23	METAL,SIDE 2	2
970301976	24	SEAL,OIL	1
970302402	25	PISTON,+0,5	2
970302403	26	PISTON,+0,5	2
970302404	27	SET,PISTON RING +0,5	4
970302405	28	METAL,CONN.ROD +0,2	1
970302406	29	METAL,CRANKSHAFT 1 +0,2	1
970307343	30	METAL,C/SHAFT 2 02	8
970307345	31	METAL,SIDE 1-02	2
970302409	32	METAL,SIDE 2 +0,2	2
970302077	33	PULLEY,CRANKSHAFT 4.190 STD.	1

#### 4.190HE STANDARD ENGINE / CRANKSHAFT-BEARINGS



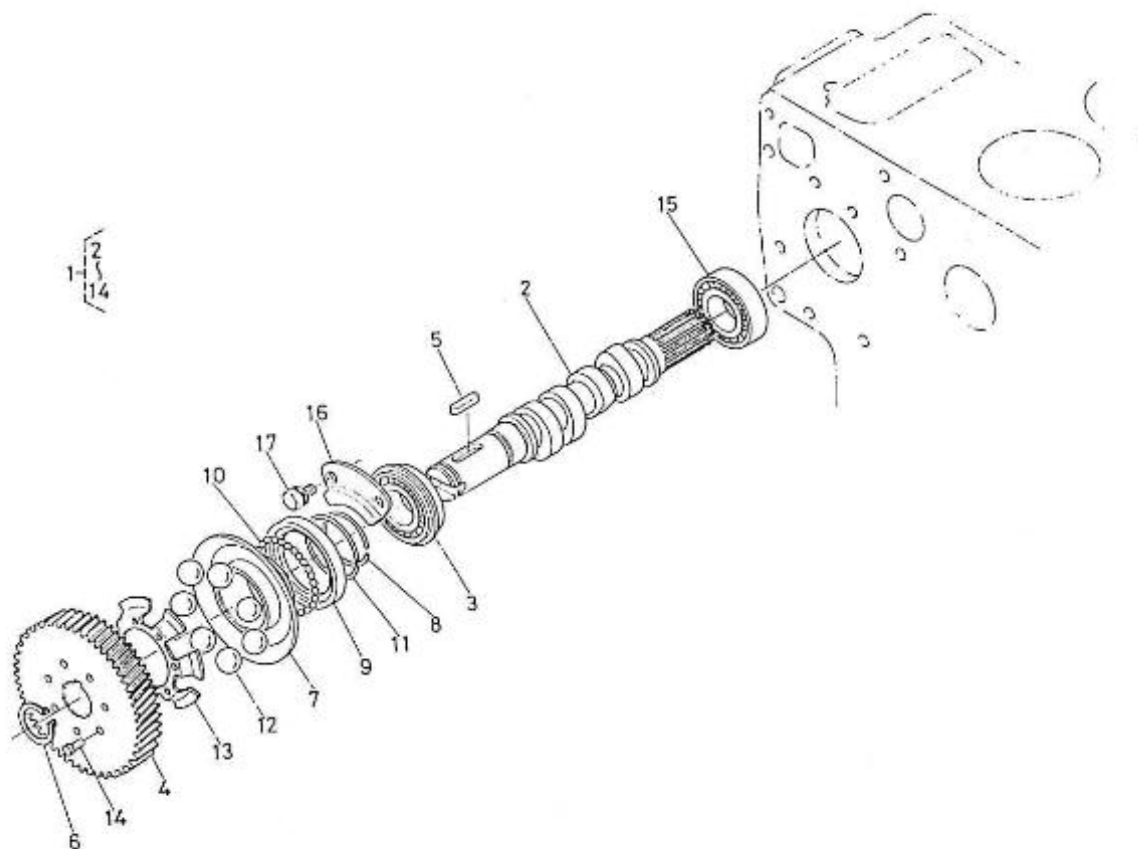
Part number	Item	Désignation article	Quantity
970301980	1	BEARING,MAIN ASSY 4.190-6.280	1
970301981	2	BOLT,BEARING CASE N01	8
970301982	3	WASHER,PLAIN	8
970301983	4	GASKET,BEARING COVER	1
970301984	5	COVER,BEARING	1
970301985	6	GASKET,BEARING COVER	1
970147402	7	BOLT,M 8X 25	8
970301986	8	BOLT,M 8X 28	8
970301987	9	SEAL,OIL	1
970301989	11	BEARING,MAIN ASSY N02 4.190	1
970301977	12	BEARING,MAIN ASSY N03 4.190	1
970307316	13	BOLT,BEARING CASE	3
970301979	14	WASHER,PLAIN	3

#### 4.190HE STANDARD ENGINE / FLYWHEEL



Part number	Item	Désignation article	Quantity
970302070	1	STARTER,MOTOR 12V 0,8KW	1
970300044	2	BOLT,HEX M10X1,25X 25	13
970119136	3	WASHER,SPRING D10	13
970119135	4	WASHER,PLAIN D10	2
970301626	5	PLATE,REAR END 4.190	1
970301627	6	FLYWHEEL,CPL.4.190	1
970302397	7	WASHER,FLYWHEEL 3PCS.	1
970302396	8	BOLT,FLYWHEEL	6

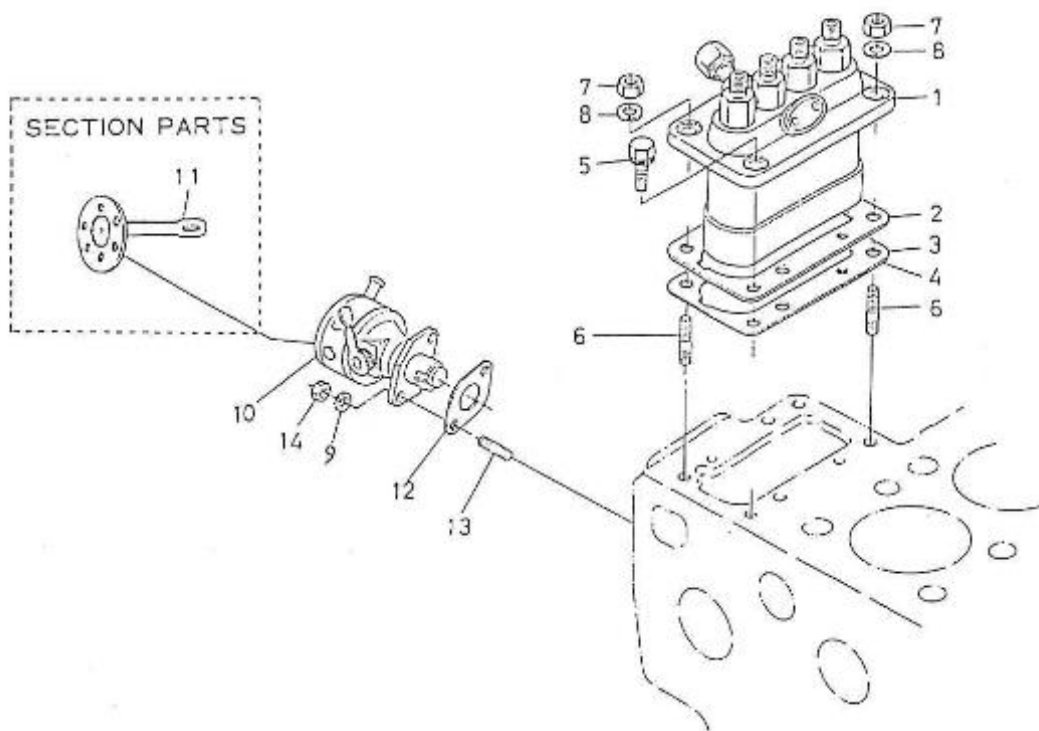
#### 4.190HE STANDARD ENGINE / CAMSHAFT INJECTION PUMP



Part number	Item	Désignation article	Quantity
970302092	1	CAMSHAFT,FUEL CPL.4.190	1
970302092	2	CAMSHAFT,FUEL CPL.4.190	1
970312500	3	BEARING, BALL	1
970302095	4	GEAR,INJ.PUMP	1
970312501	5	KEY, FEATHER	1
970302097	6	CIR-CLIP,EXTERNAL	1
970302098	7	SLEEVE,GOVERNOR	1
970302099	8	CIR-CLIP,GOVERNOR SLEEVE	1
970303929	9	CASE,GOVERNOR BALL	1
970492130	10	BEARING,BALL FUEL CAMSHAFT	39
970302100	11	CIR-CLIP,GOVERNOR BALL CASE	1
970302101	12	BEARING,BALL	7
970302103	13	GUIDE,GOVERNOR	1
970302104	14	PIN,RIVET	7
970302105	15	BEARING,CASE	1
970302106	16	STOPPER,FUEL CAMSHAFT	1
970490919	17	BOLT,M 8X 16	2

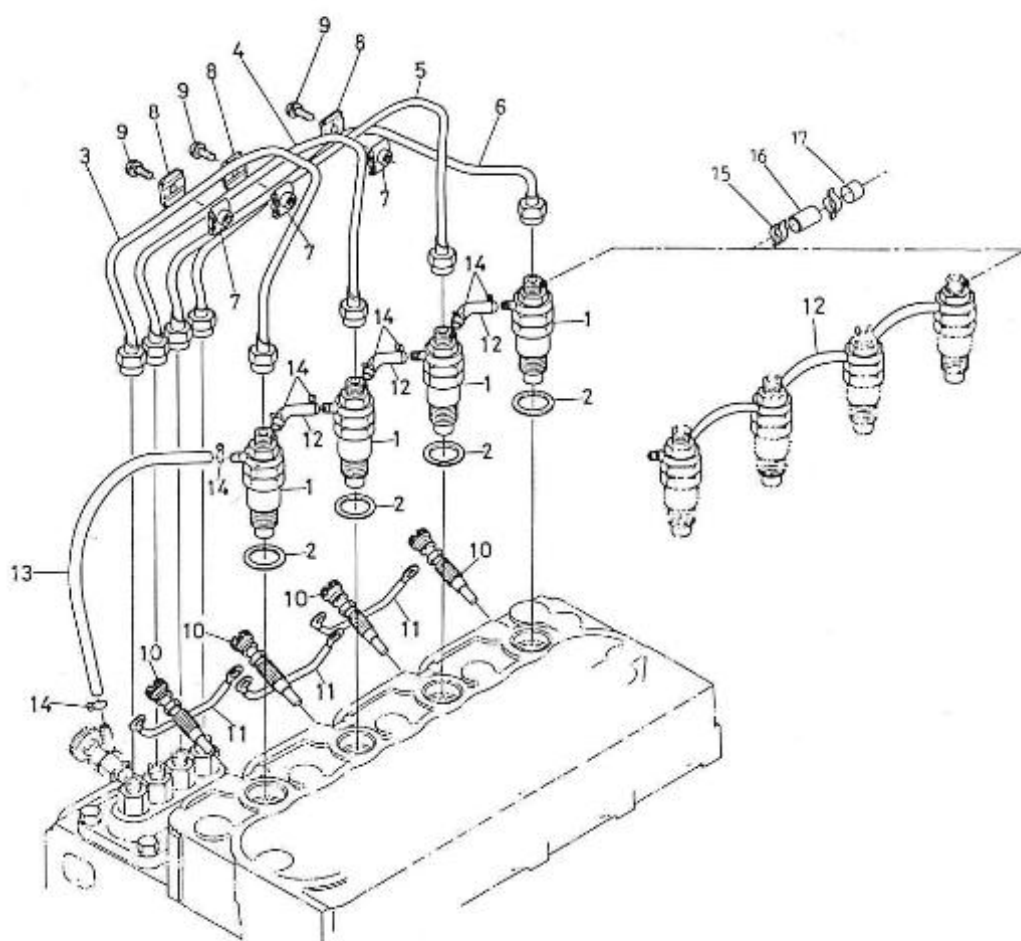


#### 4.190HE STANDARD ENGINE / INJECTION AND FEED PUMP



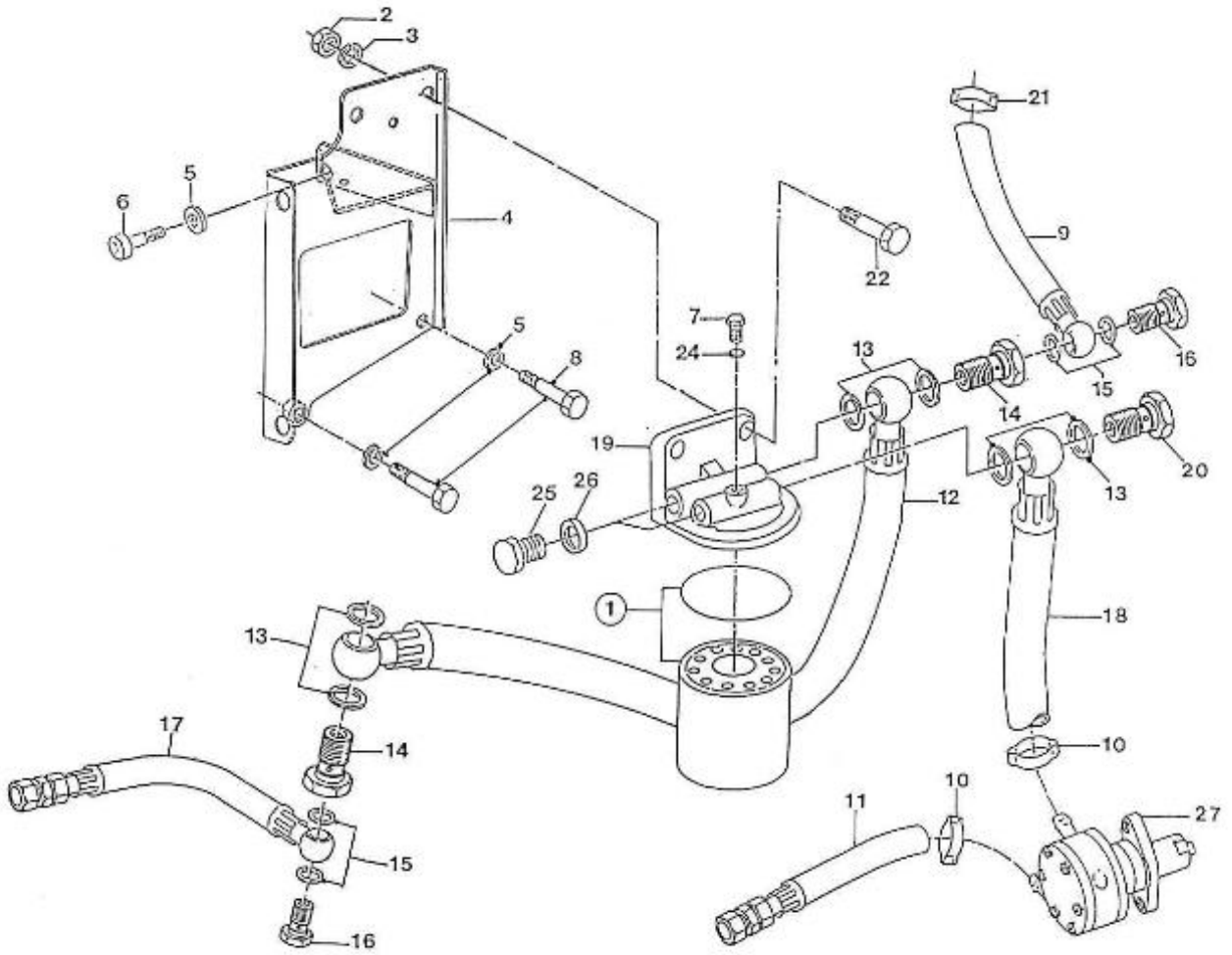
Part number	Item	Désignation article	Quantity
970302090	1	PUMP,INJECTION 4.190 CPL	1
970302086	2	SHIM,INJECTION PUMP 4.190	1
970302087	3	SHIM,INJECTION PUMP 4.190	1
970302412	4	SHIM,INJECTION PUMP 0.45	1
970492138	5	BOLT,M 8X 22	4
970300103	6	STUD,M 8X 20	2
970490903	7	NUT,M 8	2
970490904	8	WASHER,SPRING D 8	2
970119149	9	WASHER, SPRING D 6	2
970512501	10	PUMP,FUEL FEED CPL.MANUAL	1
970307110	11	COMP.DIAPHRAGM NA	1
970492512	12	GASKET,FUEL PUMP	1
970492513	13	STUD, M 6X 16	2
970151133	14	NUT,M 6	2

#### 4.190HE STANDARD ENGINE / INJECTION NOZZLES AND PIPES



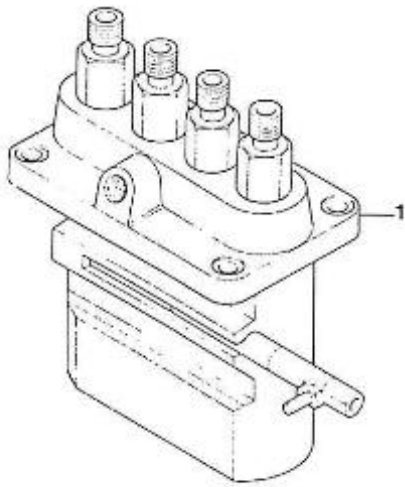
Part number	Item	Désignation article	Quantity
970152108	1	INJECTOR,CPL.	4
970492109	2	GASKET,RING INJECTORS	4
970302078	3	LINE,FUEL CYL.N01 4.190	1
970302079	4	LINE,FUEL CYL.N02 4.190	1
970302080	5	LINE,FUEL CYL.N03 4.190	1
970302081	6	LINE,FUEL CYL.N04 4.190	1
970142114	7	CLAMP,FUEL LINES 1+2	3
970142115	8	CLAMP,FUEL-LINES 1+2	3
970492118	9	SCREW,M 5X 20 ROUND HEAD	3
970302082	10	GLOWPLUG,4.190	4
970302083	11	CABLE,GLOWPLUG	3
970302084	12	PIPE,FUEL OVERFLOW N01 CPL.	1
970302085	13	PIPE,FUEL OVERFLOW N02	1
970492305	14	CLAMP,HOSE	8
970310171	15	CLAMP	2
32805001	16	HOSE	1

#### 4.190HE STANDARD ENGINE / FUEL FILTER



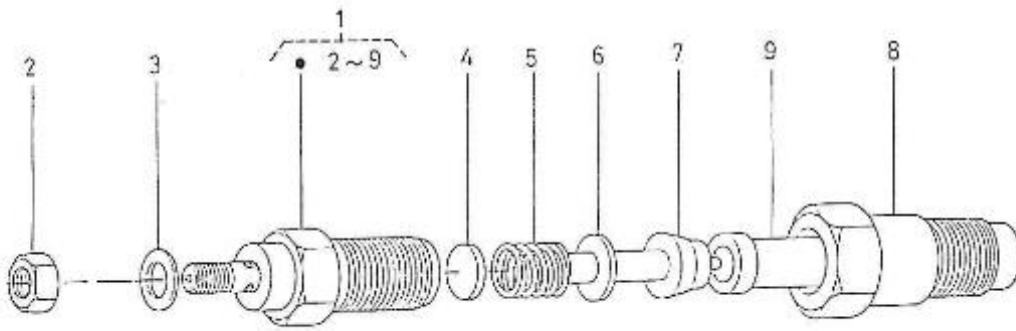
Part number	Item	Désignation article	Quantity
970875102	1	FILTER	1
970622350	1	FILTER,FUEL	1
970119143	2	NUT, M10	2
970119136	3	WASHER,SPRING D10	2
970302677	4	SUPP,FUELFILTER-OILEXTR.4.190,	1
970301727	4	SUPPORT,MAINBOX-FUEL FILTER 4.	1
970119138	5	WASHER,SPRING D 8	3
970498003	6	BOLT,SOCK M 8X 25	1
970832061	7	BOLT	1
970300375	7	SPACER	1
970301280	8	BOLT,HEX M 8X 90	2
970302329	9	HOSE,FUEL D 3 L= 180 CPL.	1
970439306	10	CLAMP	2
970302330	11	HOSE,FUEL SUPPLY CPL.	1
970301850	12	HOSE,FUEL INJ.PUMP CPL.	1
970300306	13	GASKET,RING D14	8
970300327	14	BOLT,BANJO M14X1,5XM8	2
970300288	15	GASKET,M8	4
970432133	16	BOLT,BANJO M 8	2
970301851	17	HOSE,FUEL RETURN CPL.	1
970301849	18	HOSE,FUEL SUPPLY CPL.	1
970302494	19	SUPPORT,FUEL FILTER ELEMENT H-	1
970432515	20	BOLT,BANJO M14X1,5	1
970310171	21	CLAMP	1
970644008	22	BOLT,HEX M10X 35	2
970635508	22	BOLT,HEX M10X 25	2
970119135	23	WASHER,PLAIN D10	2
970300288	24	GASKET,M8	1
970875506	25	PLUG	2
970300306	26	GASKET,RING D14	2
970512501	27	PUMP,FUEL FEED CPL.MANUAL	1
970622350	28	FILTER,FUEL	1

#### 4.190HE STANDARD ENGINE / INJECTION AND FEED PUMPS



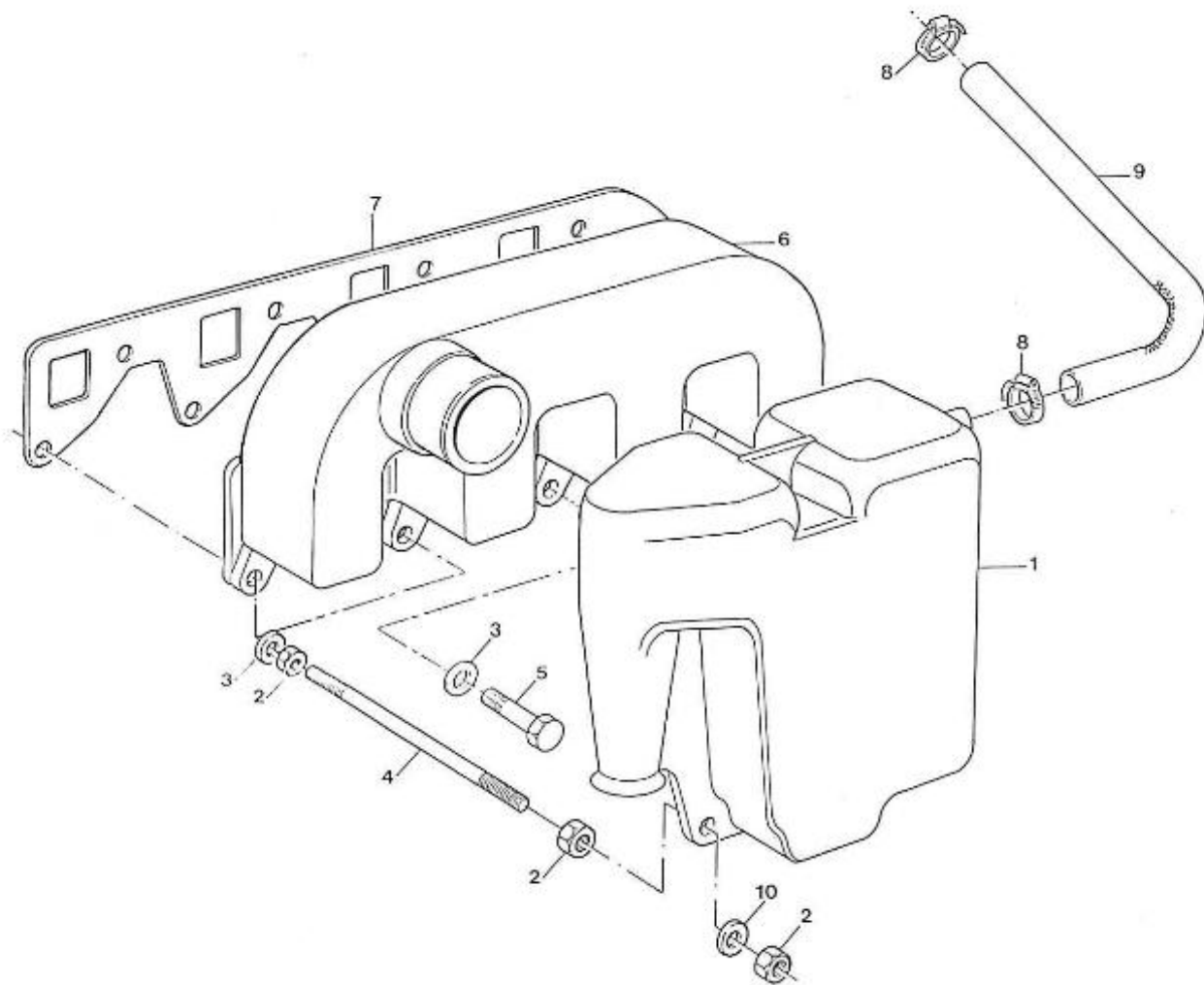
Part number	Item	Désignation article	Quantity
970302090	1	PUMP,INJECTION 4.190 CPL	1

#### 4.190HE STANDARD ENGINE / INJECTION NOZZLE



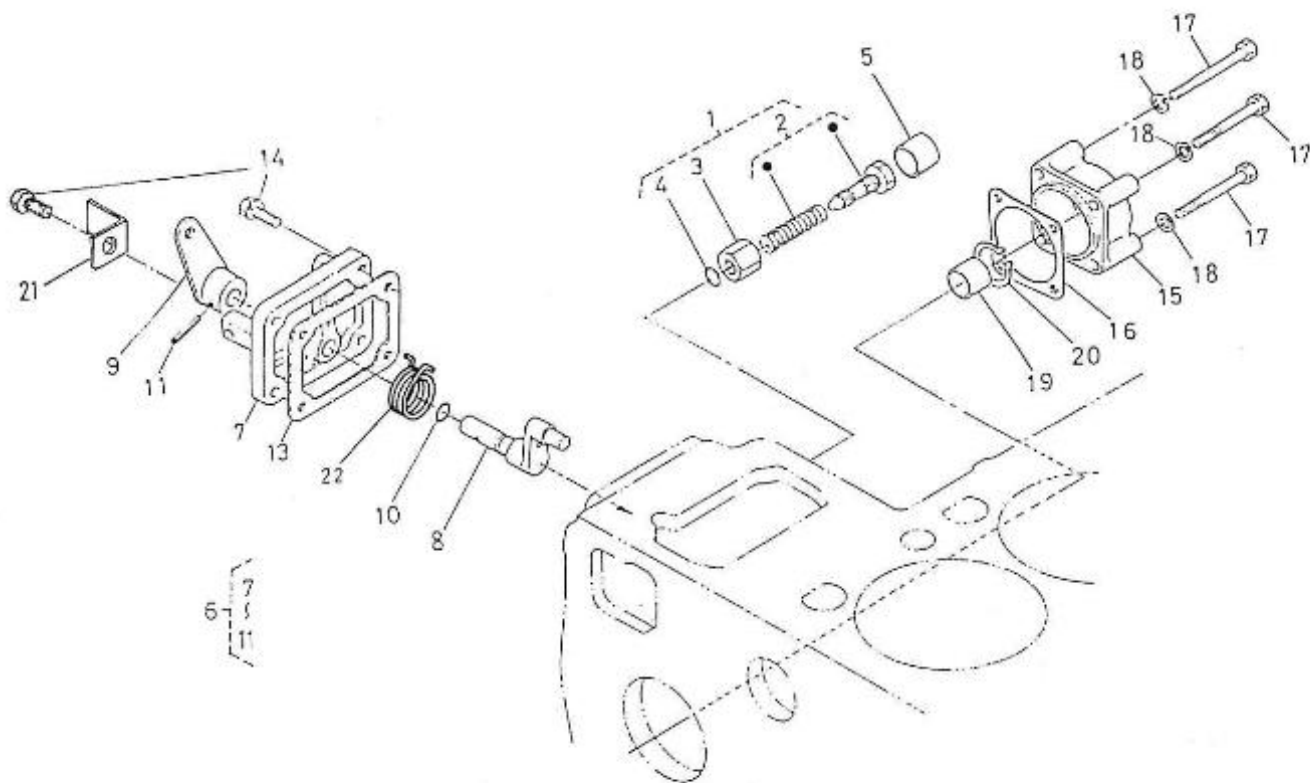
Part number	Item	Désignation article	Quantity
970152108	1	INJECTOR,CPL.	4
970492153	2	NUT,NOZZLE INJ.	4
970492172	3	WASHER,NOZZLE INJ.	4
970492142	4	SPACER,ADJUSTING NOZZLE STD.	4
970492143	5	SPRING,NOZZLE INJ.	4
970492144	6	PIECE,DISTANCE NOZZLE INJ.	4
970492145	7	ROD,PUSH NOZZLE INJ.	4
970492173	8	NUT,NOZZLE INJ.	4
970492113	9	NOZZLE,INJECTOR	4
970142200	10	SET,SPACER NOZZLE	4

#### 4.190HE STANDARD ENGINE / AIR FILTER



Part number	Item	Désignation article	Quantity
970301715	1	FILTER,AIR 4.190 6.280	1
970027322	2	NUT,M 8	6
970119139	3	WASHER,CORRUGATED D8	4
970301581	4	STUD,M 8X110	2
970492138	5	BOLT,M 8X 22	2
970302136	6	MANIFOLD,INTAKE 4.190	1
970302137	7	GASKET,INTAKE MANIFOLD 4.190	1
970439306	8	CLAMP	2
970496045	9	HOSE,CARTER DEAIR	1
970027323	10	WASHER,PLAIN D 8	2

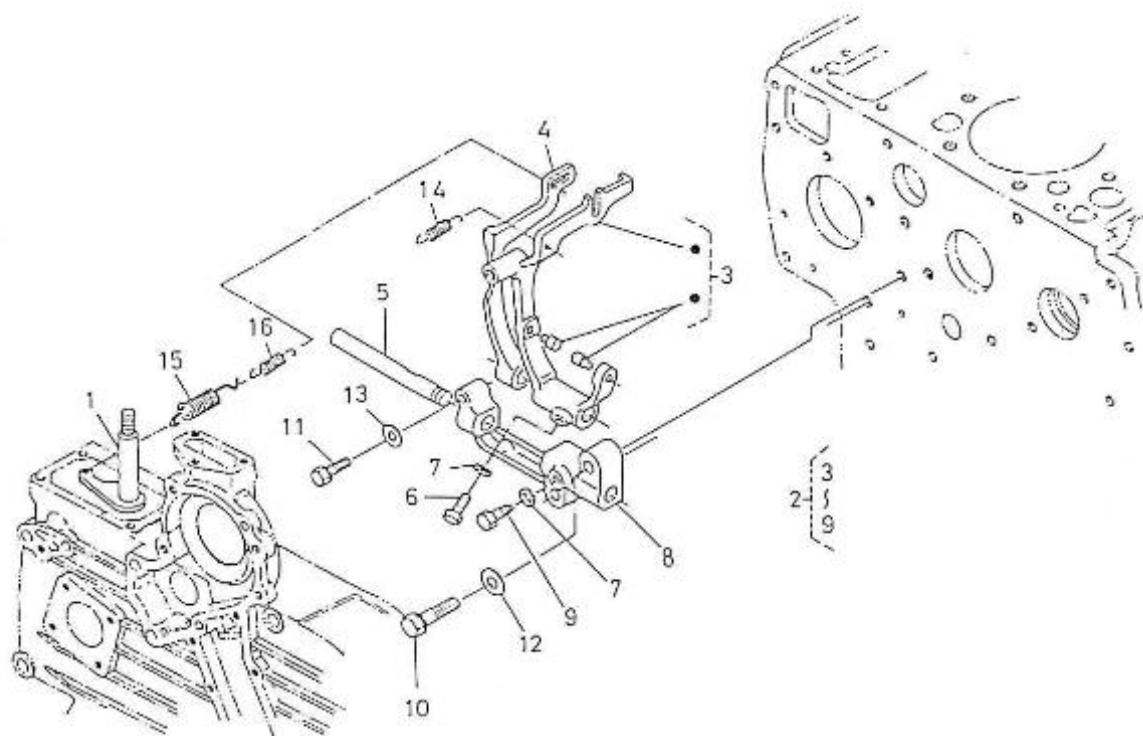
#### 4.190HE STANDARD ENGINE / REGULATOR ADJUSTMENT



Part number	Item	Désignation article	Quantity
970302053	1	BOLT,ADJ.CPL.	1
970302053	2	BOLT,ADJ.CPL.	1
970302056	3	NUT	1
970302057	4	O-RING	1
970302069	5	CAP	1
970302058	6	LEVER,ENGINE STOP CPL.	1
970302059	7	COVER,INJ.PUMP	1
970302060	8	SHAFT,LEVER	1
970302061	9	LEVER,ENGINE STOP	1
970141303	10	O-RING, GOVERNOR	1
970151130	11	PIN,SPRING RETAINER	1
970310448	13	GASKET,PUMP COVER NA	1
970490143	14	BOLT,M 6X 18	4
970302063	15	COVER,FUEL CAMSHAFT	1
970302067	17	BOLT,M10X 70	4
970302068	18	WASHER,SPRING D10	4
970302064	19	BUSHING,COVER CAMSHAFT	1
970302066	20	CIR-CLIP,EXTERNAL	1
970302571	21	SUPPORT,ACC.CONTROL H/HE	1
970151131	22	SPRING,INJ.PUMP	1

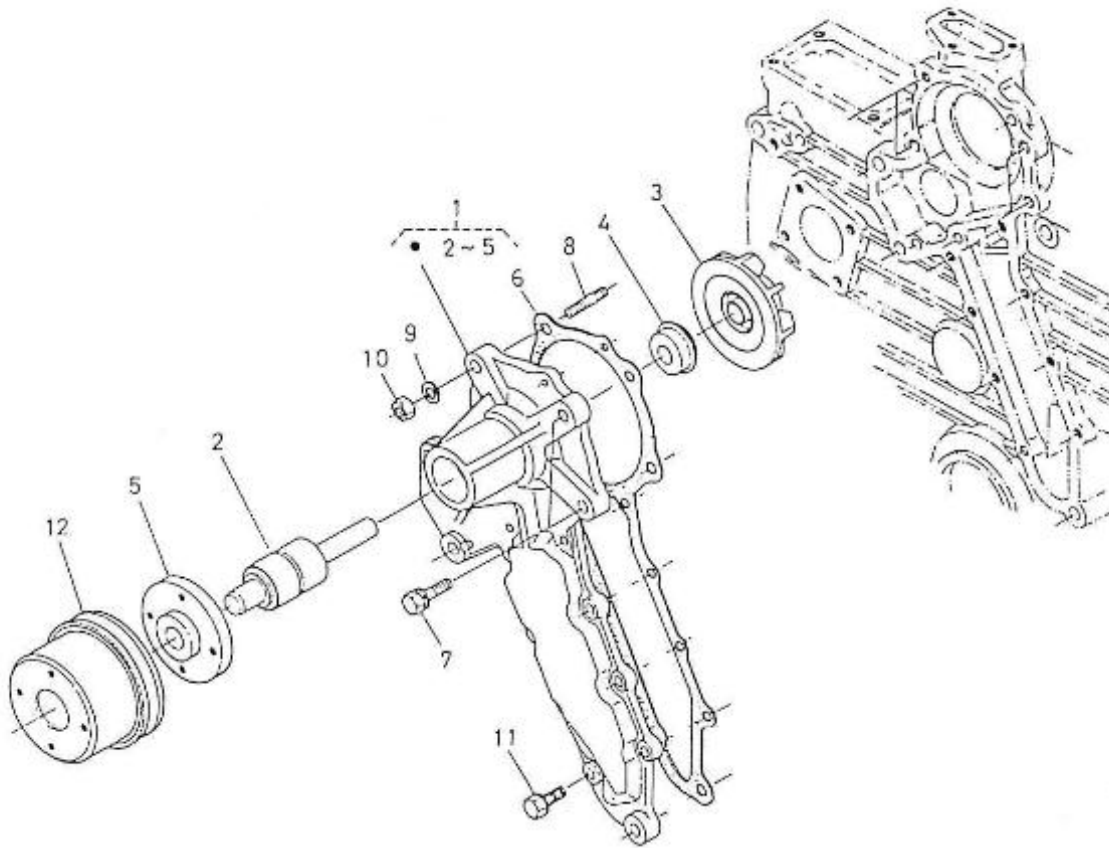


#### 4.190HE STANDARD ENGINE / SPEED REGULATOR



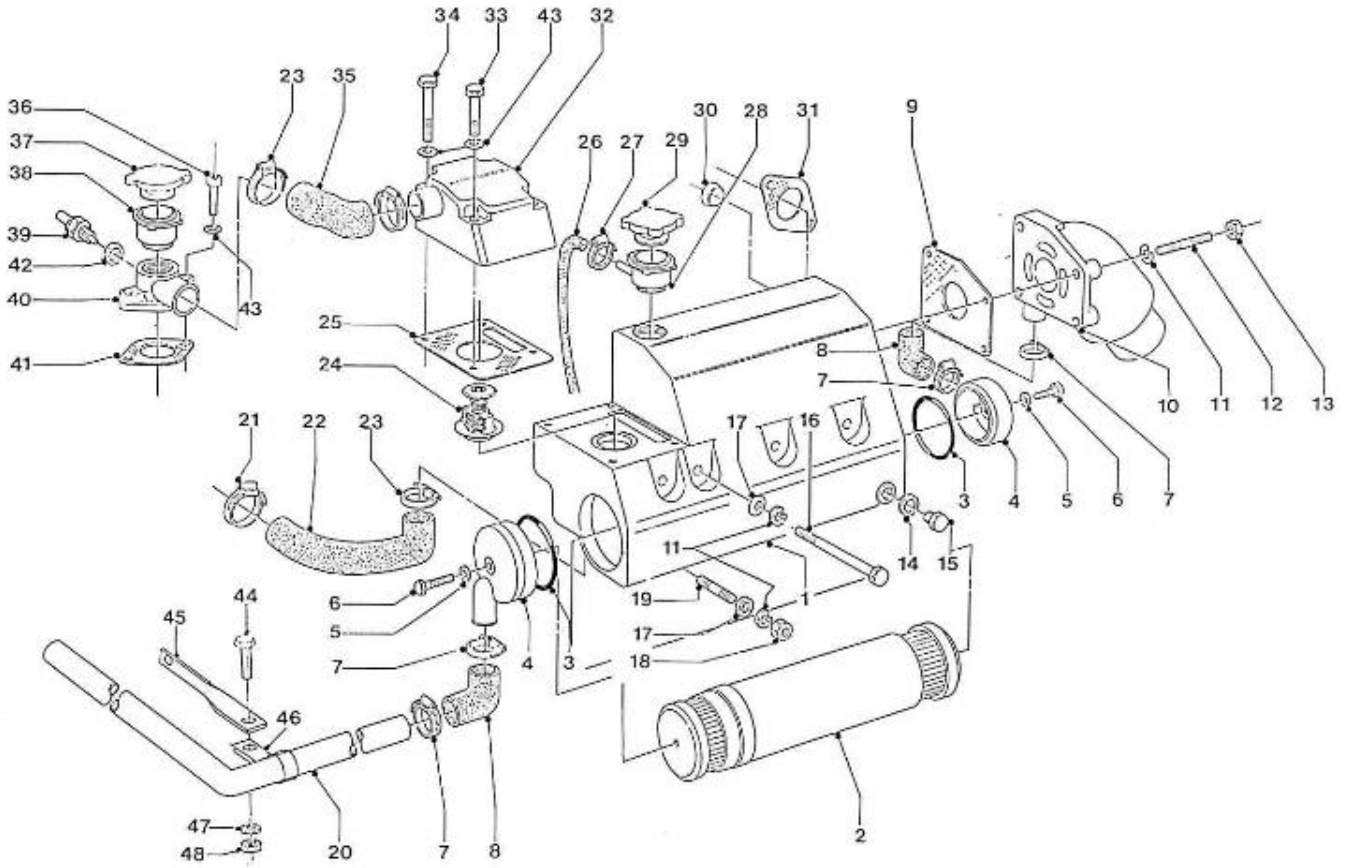
Part number	Item	Désignation article	Quantity
970302030	1	LEVER,GOVERNOR	1
970302031	2	GOVERNOR,CPL.4.190	1
970302032	3	LEVER,FORK CPL.N01	1
970302033	4	LEVER,FORK N02	1
970302035	6	BOLT	1
970119149	7	WASHER, SPRING D 6	2
970302036	8	SUPPORT,FORK LEVER	1
970490520	9	BOLT	1
970302037	10	BOLT,M 8X 32	2
970491323	11	BOLT,M 6X 28	1
970301933	12	WASHER,PLAIN D 8	2
970141326	13	WASHER, PLAIN D6	1
970302038	14	SPRING,START	1
970161314	15	SPRING,GOVERNOR N01	1
970161315	16	SPRING,GOVERNOR N02	1

#### 4.190HE STANDARD ENGINE / FRESH WATER PUMP



Part number	Item	Désignation article	Quantity
970302110	1	PUMP,F/WATER CPL.4.190	1
970302109	2	BEARING,SHAFT W/PUMP	1
970302111	3	IMPELLER,F/WATER PUMP 4.190	1
970302112	4	SEAL,MECHANICAL F/W.PUMP	1
970302113	5	FLANGE,F/WATER PUMP	1
970302117	6	GASKET,WATER PUMP 4.190	1
970301986	7	BOLT,M 8X 28	2
970302118	8	STUD	2
970490904	9	WASHER,SPRING D 8	2
970490903	10	NUT,M 8	2
970490119	11	BOLT,M 6X 18	8
970302116	12	PULLEY,WATER PUMP 4.190	1

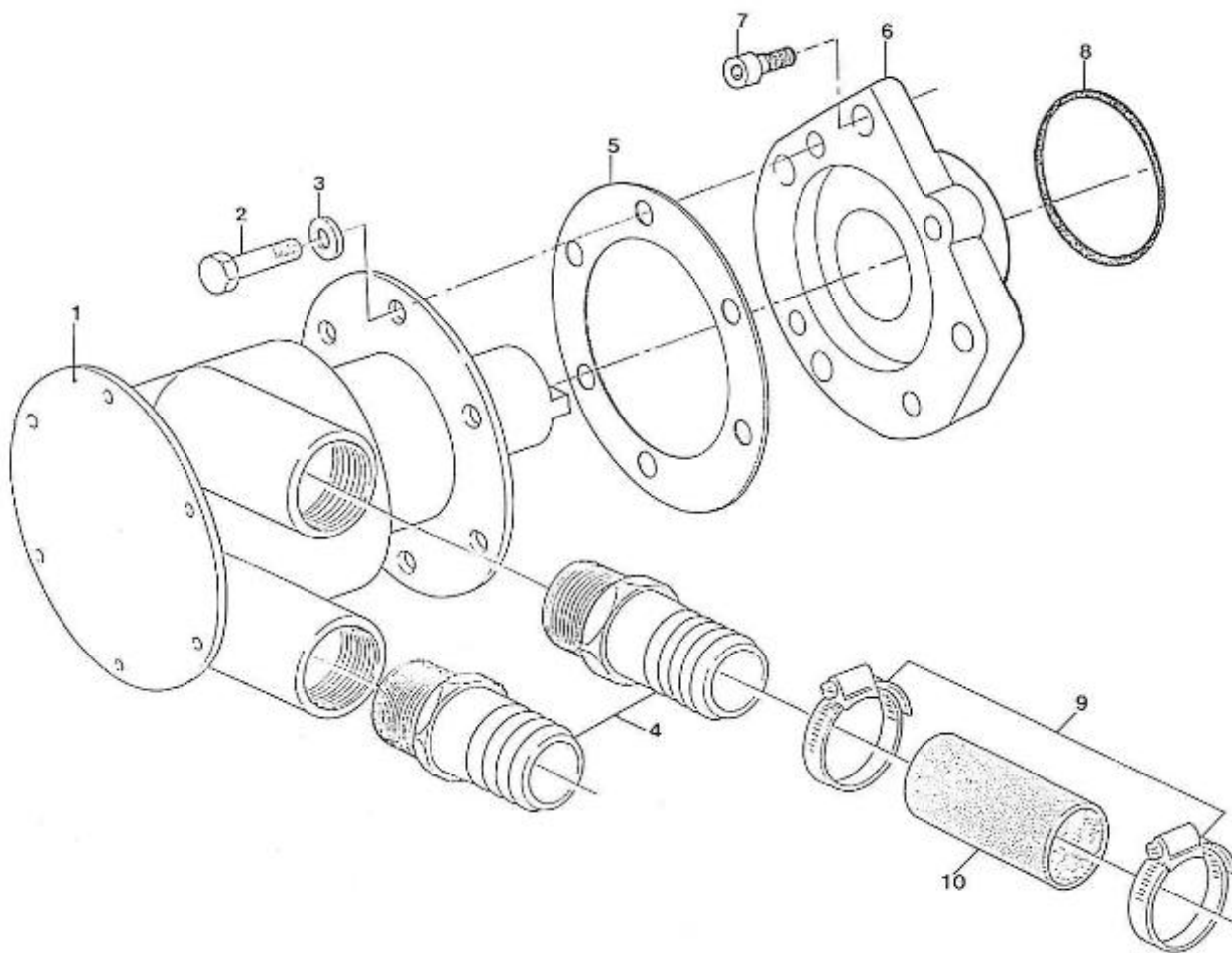
#### 4.190HE STANDARD ENGINE / HEAT EXCHANGER



Part number	Item	Désignation article	Quantity
970307713	2	TUB STACK	1
970301719	3	O-RING,68,00X4,00	2
970307714	4	COVER	2
970300288	5	GASKET,M8	2
970301263	6	BOLT,M 8X 45 -A2-	2
970604526	7	CLAMP,HOSE 22-32	4
970301713	8	HOSE,ELBOW COVER HEATEX.4.190	2
970301710	9	GASKET,MIXER 4.190	1
970301706APR	10	MIXER	1
970119138	11	WASHER,SPRING D 8	12
970300374	12	STUD,M 8X 30	4
970027322	13	NUT,M 8	4
970300306	14	GASKET,RING D14	1
970875506	15	PLUG	1
970301703	16	BOLT,HEX M 8X160	4
970119138	17	WASHER,SPRING D 8	8
970027322	18	NUT,M 8	4
970300374	19	STUD,M 8X 30	4
970307424	20	HOSE	1
970604533	21	CLAMP,HOSE 32-44	1
970301718	22	HOSE,WATER RETURN D32-34	1
970300922	23	CLAMP,HOSE 26-38	3
970301412	24	THERMOSTAT,82X	1
970301408	25	GASKET,THERMOSTAT COVER	1
970300077	26	HOSE,D 8 L= 450	1
970439306	27	CLAMP	1
970300151	28	FILLING,NECK WATER	1
970604614	29	CAP,FILLING 0, 7 DOUBLE SEAL	1
970494517	30	CAP,FREEZE	2
970302169	31	GASKET,EXHAUST MANIFOLD 4.190-	4
970301403	32	COVER,THERMOSTAT	1
970300409	33	BOLT,HEX M 8X 55	2
970300261	34	BOLT,HEX M 8X 80	2
970301714	35	HOSE,D32 COVER THERMO.4.190	1
970635916	36	BOLT,SOCK M 8X 35	2
970604614	37	CAP,FILLING 0, 7 DOUBLE SEAL	1
970301734	38	FILLING,NECK CPL.4.190	1
970851602	39	WATER TEMPERATURE SENDER	1
970301711	40	FLANGE,WATER INTAKE 4.190	1
970301730	41	GASKET,FLANGE	1
970300306	42	GASKET,RING D14	1
970119139	43	WASHER,CORRUGATED D8	6
970439910	44	BOLT,HEX M 6X 16	1
970302233	45	SUPPORT,PIPE CLAMP	1
970304071	46	CLAMP	1
970119149	47	WASHER, SPRING D 6	1

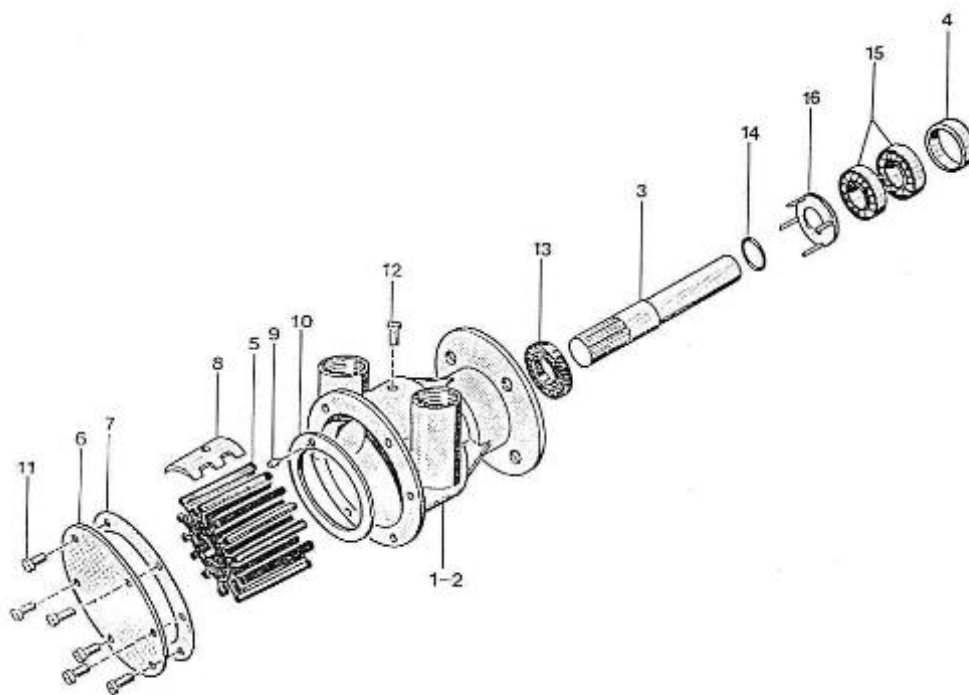
970635460	48	NUT,M 6	1
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#### 4.190HE STANDARD ENGINE / SEA WATER PUMP



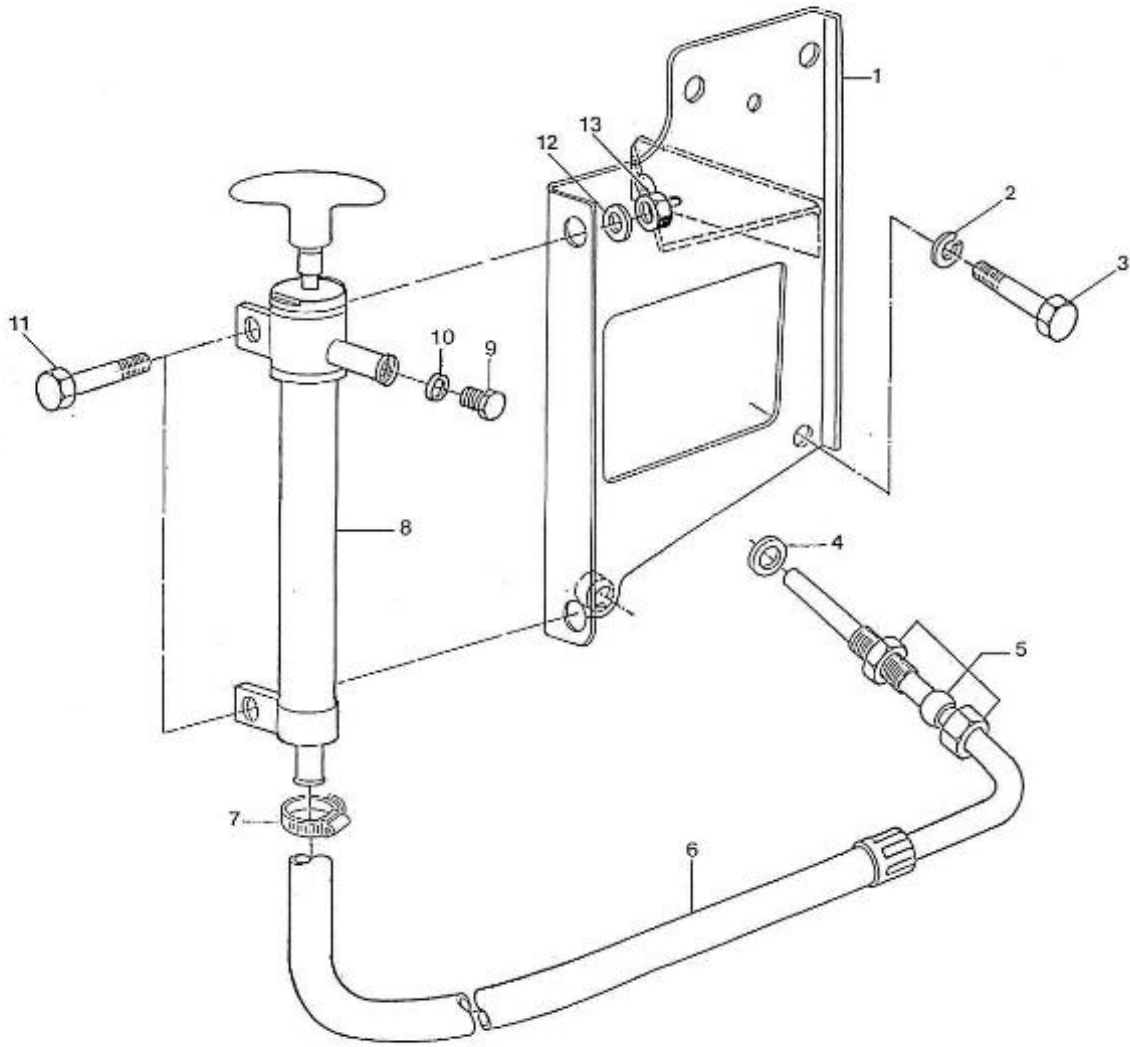
Part number	Item	Désignation article	Quantity
970301725	1	PUMP,WATER F5B-9 4.190	1
970439910	2	BOLT,HEX M 6X 16	4
970609602	3	WASHER,CORRUGATED D 6	4
970604515	4	CONNECTION,HOSE HBW-20	2
970614511	5	GASKET,WATER PUMP F5B-9	1
970300254	6	FLANGE,WATER PUMP 4.110HE	1
970604615	7	BOLT,SOCK M 6X 20	4
970154025	8	O-RING,28,17X3,53	1
970604526	9	CLAMP,HOSE 22-32	2
970646105	10	HOSE,D25 L= 60	1

#### 4.190HE STANDARD ENGINE / SEA WATER PUMP - DETAILS



Part number	Item	Désignation article	Quantity
970301725	1	PUMP,WATER F5B-9 4.190	1
970302154	3	SHAFT,WATER PUMP F5B-9	1
970303672	4	GUIDE,WATER PUMP F5B-9000	1
970604530	5	IMPELLER,WATER PUMP F 5B/-9	1
970303673	6	COVER,END W/PUMP F5B-9000	1
970604529	7	GASKET,F5B	1
970303674	8	CAM,WATER PUMP F5B-9000	1
970303675	9	PIN,WATER PUMP F5B-9000	1
970300891	10	PLATE,WEAR W/PUMP F5B-9000	1
970303677	11	SCREW,COVER W/PUMP F5B-9000	6
970303678	12	SCREW,CAM WATER PUMP F5B-9000	1
970614516	13	O-RING SEAL	1
970303679	14	O-RING,WATER PUMP F5B-9000	1
970770251	15	BEARING,BAIL WATER PUMP F5B-90	2
970303680	16	WASHER,WATER PUMP F5B-9000	1

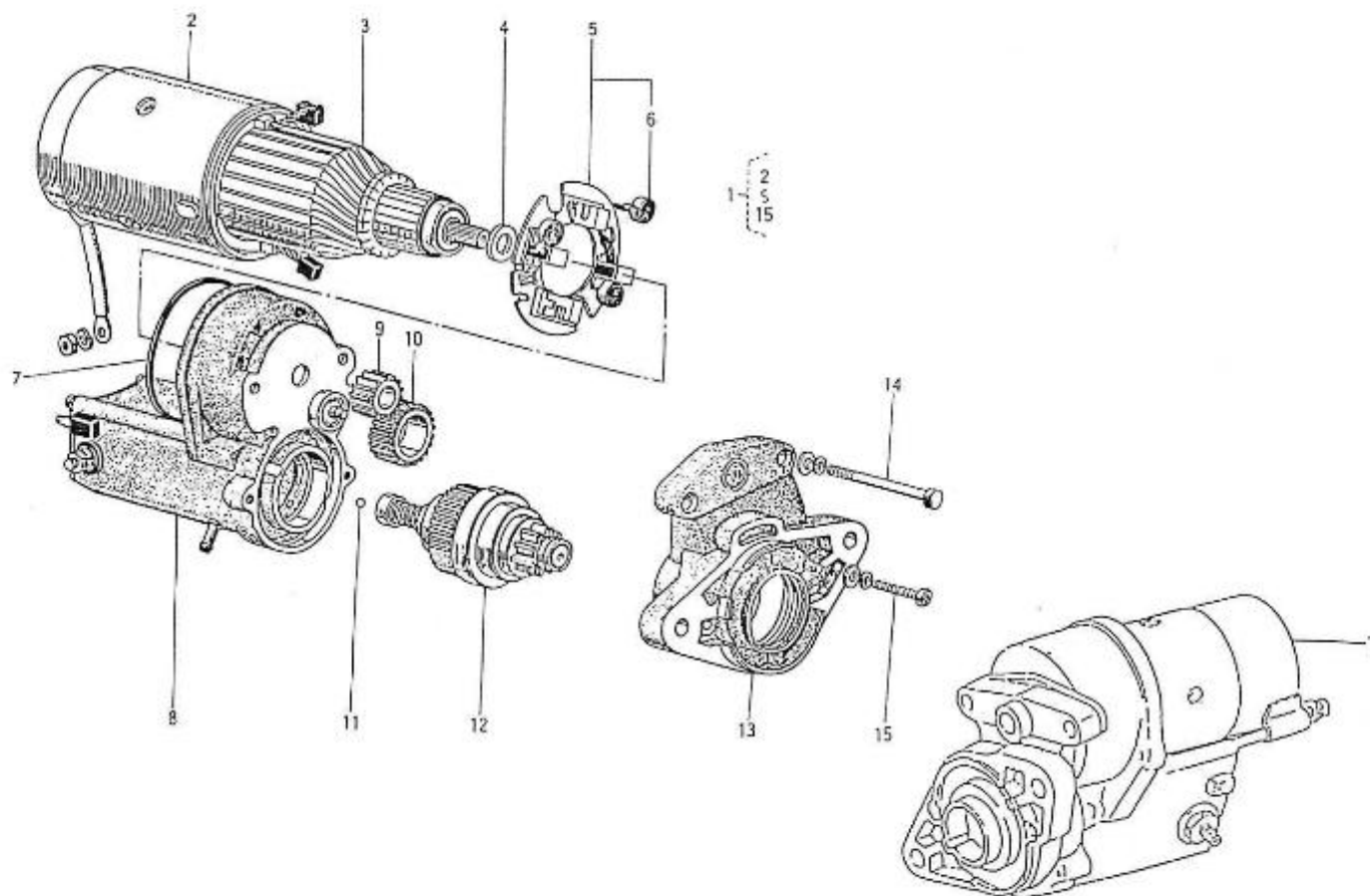
#### 4.190HE STANDARD ENGINE / OIL DRAIN PUMP





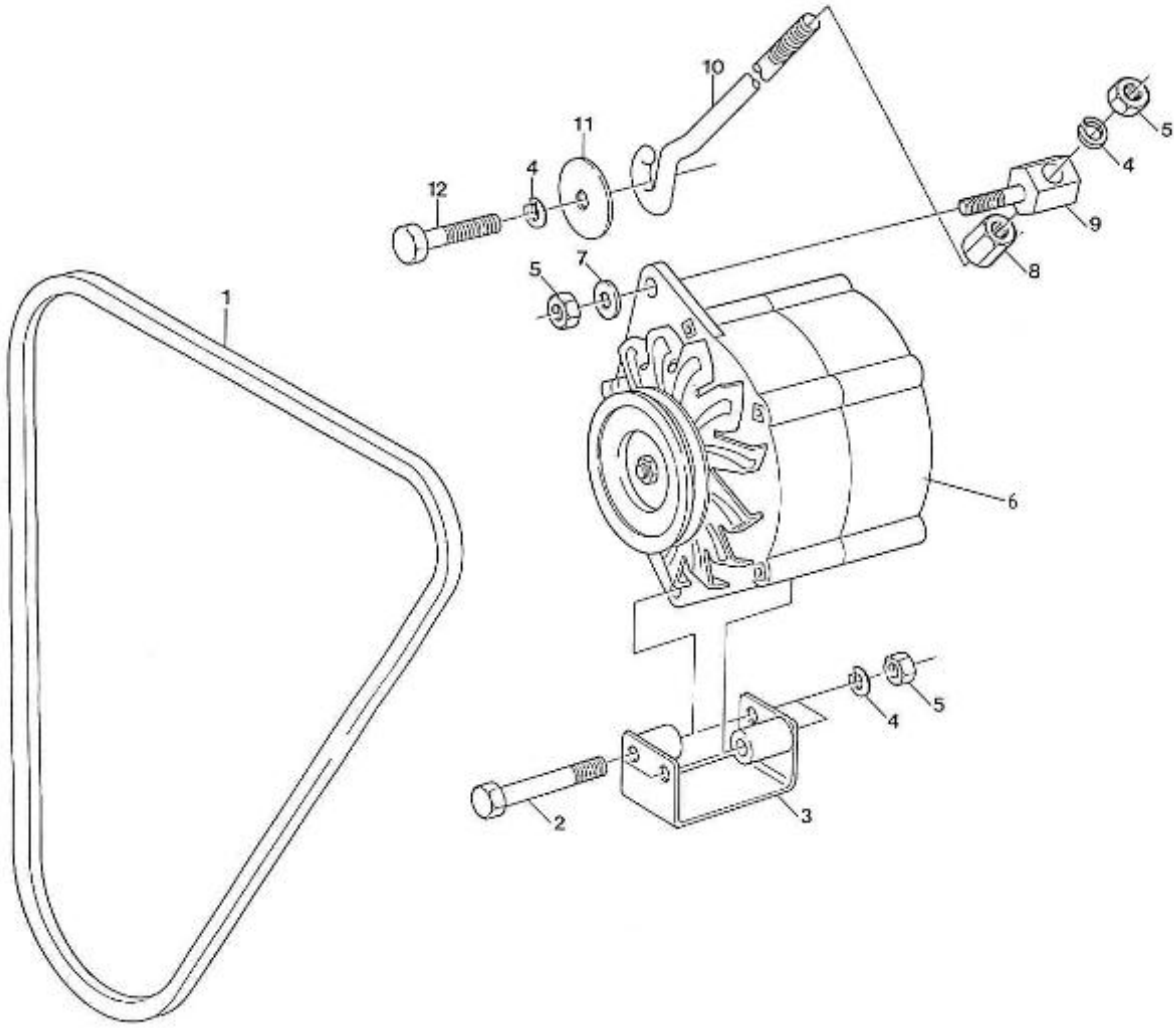
Part number	Item	Désignation article	Quantity
970301727	1	SUPPORT,MAINBOX-FUEL FILTER 4.	1
970302677	1	SUPP,FUELFILTER-OILEXTR.4.190,	1
970119138	2	WASHER,SPRING D 8	3
970498003	3	BOLT,SOCK M 8X 25	1
970301280	3	BOLT,HEX M 8X 90	2
970300199	4	GASKET,RING D16	1
970300375	4	SPACER	1
970300306	5	GASKET,RING D14	4
970432515	6	BOLT,BANJO M14X1,5	2
970304102	6	DRAIN OIL PIPE	1
970439306	7	CLAMP	1
970300797	8	CONNECTION,BANJO D=8/M14	1
970439302	8	PUMP,OIL EXTRACTION	1
970832061	9	BOLT	1
970300288	10	GASKET,M8	1
970301416	10	PUMP,OIL EXTRACTION	1
970300199	11	GASKET,RING D16	1
970439910	11	BOLT,HEX M 6X 16	2
970119149	12	WASHER, SPRING D 6	2
970300288	12	GASKET,M8	1
970832061	13	BOLT	1
970635460	13	NUT,M 6	2
970302421	14	HOSE,OILEXTRACTION 4.190 CPL	1

#### 4.190HE STANDARD ENGINE / STATER - DETAILS



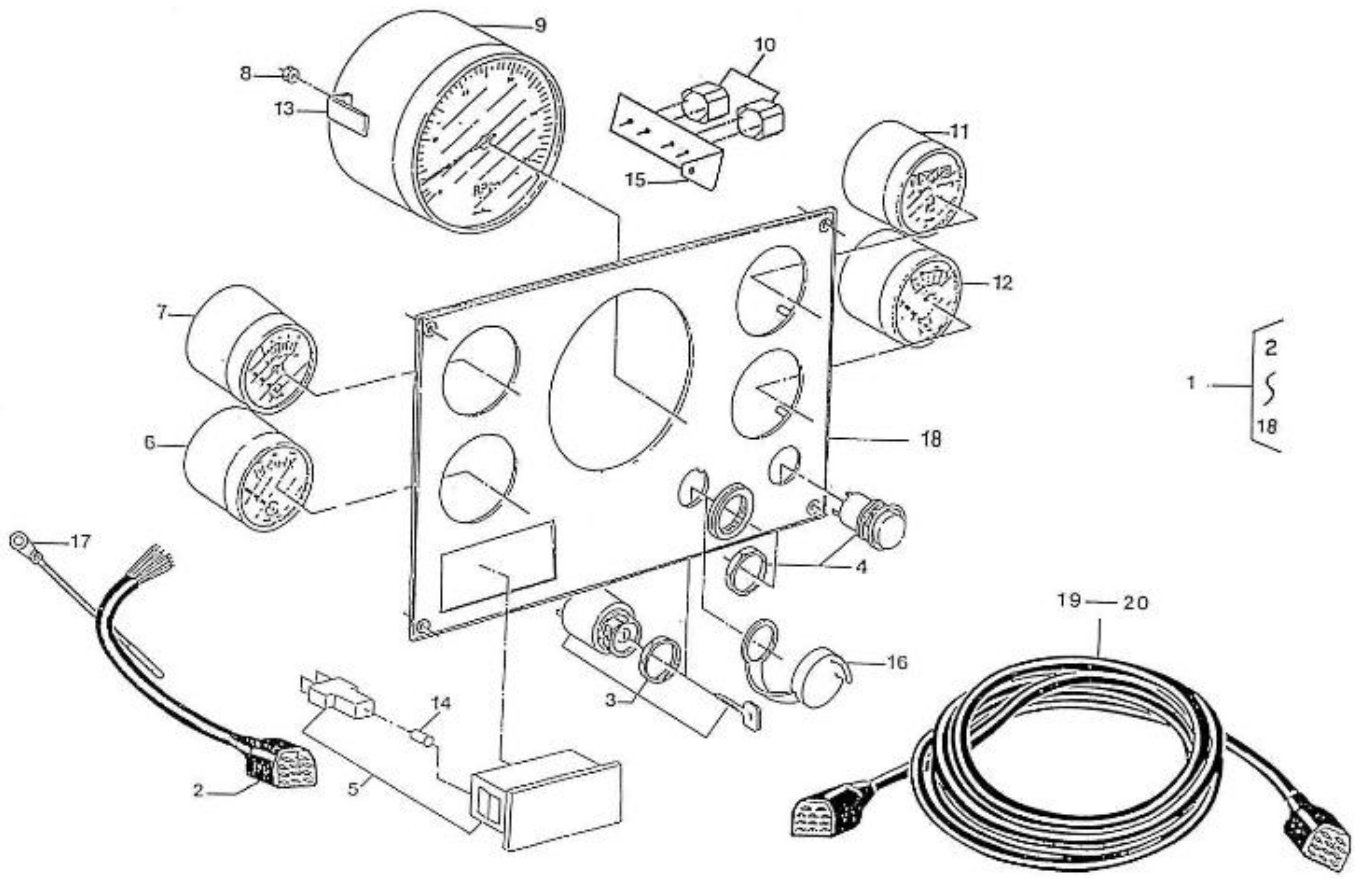
Part number	Item	Désignation article	Quantity
970302070	1	STARTER,MOTOR 12V 0,8KW	1
970303987	3	ROTOR,STARTER 6.280	1
970303988	4	GASKET,RING	1
970303989	5	HOLDER,BRUSH	1
970517318	6	SPRING,BRUSH	4
970303990	7	GASKET	1
970303991	8	HOLDER,MAGNETIC SWITCH	1
970303992	9	GEAR,1	1
970517313	10	GEAR,2 STARTER MOTOR 4.110	1
970517316	11	BHEARING,BALL STARTER MOTOR	1
970303994	12	PINION,SWITCH	1
970303996	14	BOLT	2
970303997	15	SCREW	2

#### 4.190HE STANDARD ENGINE / ALTERNATOR



Part number	Item	Désignation article	Quantity
970307438	1	SUPPORT,ALTERNATOR	1
970301448	1	V-BELT,SPA 1120 LW	1
970307531	2	BOLT	1
970301763	2	REGULATOR,ALTERNATOR 14V-55A	1
970607384	2	BOLT,HEX M 8X 110	2
970039794	3	WASHER	1
970307532	4	NUT	1
970119138	4	WASHER,SPRING D 8	3
970307522	5	ALTERNATOR,14V-60A	1
970027322	5	NUT,M 8	4
970307521	6	PULLEY	1
970307533	7	REGULATOR,ALTERNATOR	1
970119139	7	WASHER,CORRUGATED D8	1
970301448	8	V-BELT,SPA 1120 LW	1
39460924	8	NUT	1
970307437	9	TIGHTENER,V-BELT	1
970301722	9	SUPPORT,TIGHTNER V-BELT	1
970301721	10	TIGHTENER,V-BELT	1
970304050	10	WASHER	1
39620405	11	WASHER	1
970024016	11	BOLT,HEX M 8X 40	1
39160312	12	BOLT	1
970119138	12	WASHER,SPRING D 8	2
970027322	13	NUT,M 8	2
970607384	14	BOLT,HEX M 8X 110	1

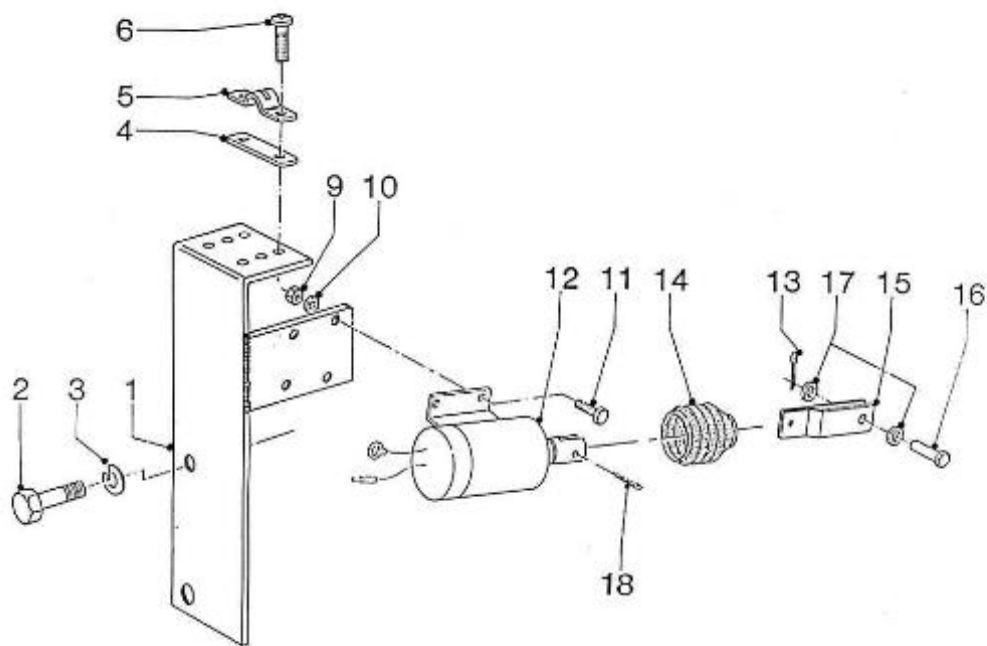
#### 4.190HE STANDARD ENGINE / INSTRUMENT PANELS



PANEL "C" (Optional équipment)

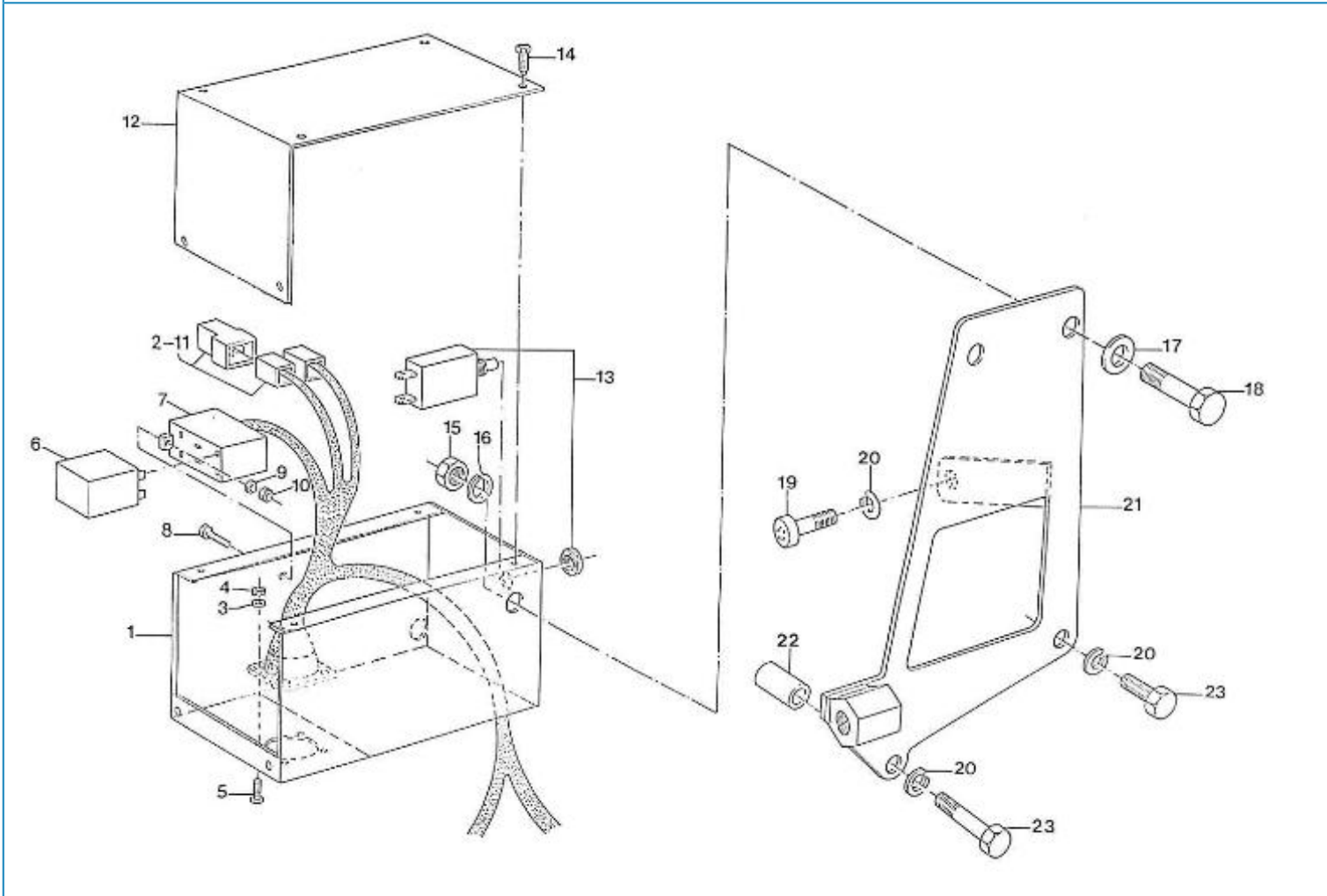
Part number	Item	Désignation article	Quantity
970304004	2	ENS. CABLAGE TABLEAU 5 INSTR	1
970301662	2	GAUGE,VDO,TEMP/VOLT 40-120,8-1	1
970302667	3	SWITCH,BOSCH STARTER + GLOWING	1
970300968	3	SWITCH,BOSCH,STARTER	1
970300967	4	BUTTON,PUSH	1
970300920	4	CLAMP,INSTRUMENTS	8
970301846	4	RELAIS,12V-30A	1
970301576	5	BUTTON,PUSH -STOP/GLOW-	1
970301191	5	NUT,M 4 A2	8
970856005	5	INDICATORI OTTICI A 4 SPIE	1
970302684	6	BUZZER,SONITRON SMA 24A P17.05	2
970850603	6	THERM.V. 120C 12V D52	1
970850705	7	OIL PRESSURE GAUGE 5B	1
970856011	8	BULB 12V-2W	2
970301191	8	NUT,M 4 A2	12
970302667	9	SWITCH,BOSCH STARTER + GLOWING	1
970302288	10	BUZZER,SONITRON SM-2B	1
970300967	10	BUTTON,PUSH	1
970302684	10	BUZZER,SONITRON SMA 24A P17.05	2
970856005	11	INDICATORI OTTICI A 4 SPIE	1
970850801	12	VOLTMETER	1
970301192	12	WASHER,PLAIN D 4	18
970856011	12	BULB 12V-2W	4
970301191	13	NUT,M 4 A2	18
970300920	13	CLAMP,INSTRUMENTS	12
970302663	13	WIRING,PANEL 2INSTR. ADDITION	1
970300920	14	CLAMP,INSTRUMENTS	8
970304021	14	COVER	1
970301046	14	DIODE,HOLDER CPL.NEGATIVE -M-	1
970856011	14	BULB 12V-2W	9
970301662	15	GAUGE,VDO,TEMP/VOLT 40-120,8-1	1
970856011	15	BULB 12V-2W	4
970304019	15	CABLEBINDER,PLASTIC 4.8X195	1
970302669	16	PLATE,PANEL 2 INSTR W/SW GLOW/	1
970304021	16	COVER	1
970302665	17	WIRING,INTERMEDIATE 4MTR 11POS	1
970856011	17	BULB 12V-2W	1
970304019	17	CABLEBINDER,PLASTIC 4.8X195	1
970302666	18	WIRING,INTERMEDIATE 8MTR 11POS	1
970300944	18	WIRING,INTERMEDIATE ( 4 MTR)	1
970302665	19	WIRING,INTERMEDIATE 4MTR 11POS	1
970302666	20	WIRING,INTERMEDIATE 8MTR 11POS	1

#### 4.190HE STANDARD ENGINE / ELECTRICAL STOP



Part number	Item	Désignation article	Quantity
970302067	2	BOLT,M10X 70	2
970302068	3	WASHER,SPRING D10	2
QCC33014TF	4	COUNTER PLATE 33/43C	1
QCC33010TF	5	THREADING COLLAR JACKET 33C	1
970300317	6	BOLT,HEX M 5X 16	2
970301580	12	SOLENOID,12V 4.190	1
970635106	13	PIN,COTTER 2X20 SST	1
970302157	14	BELLOWS,STOP SOLENOID	1
970301579	15	LEVER,STOP 4.190	1
970635253	16	PIN,ELEC STOP FORK	1
970635459	17	WASHER,PLAIN D 6	2
970302265	18	PIN,COTTER 3,2X20	1

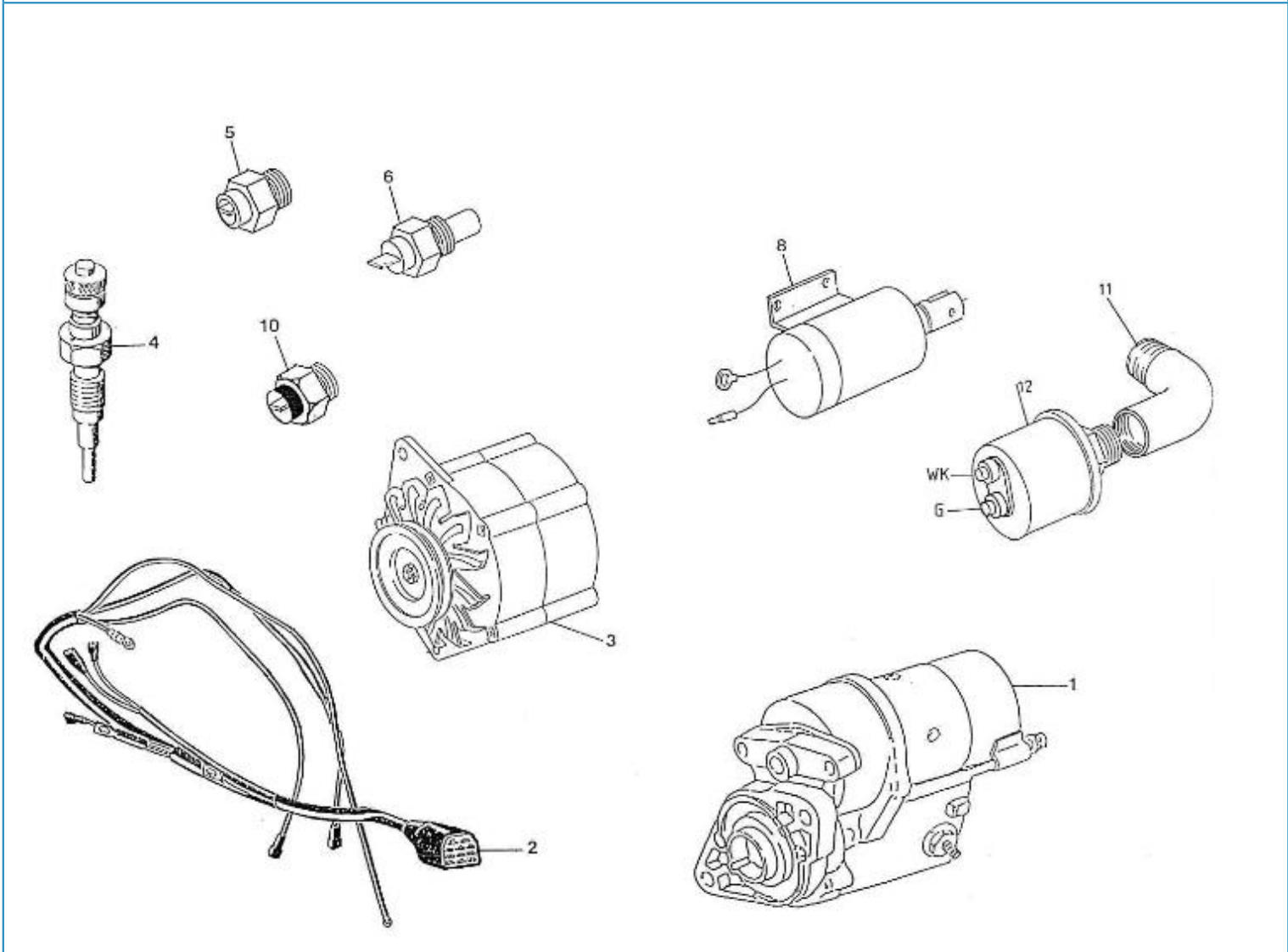
#### 4.190HE STANDARD ENGINE / ELECTRICAL BOX



Part number	Item	Désignation article	Quantity
970307424	1	HOSE	1
970301845	2	WIRING,ENGINE KUBOTA SERIES	1
970301192	3	WASHER,PLAIN D 4	4
970302150	6	RELAIS,AUTO TIMER GLOWPLUG 12V	1
970302420	8	BOLT,HEX M 5X 10	1
970300318	9	WASHER,SPRING D 5	1
970609904	10	NUT,M 5	1
970301047	11	DIODE,HOLDER CPL.POSITIVE -L-	2
970301191	14	NUT,M 4 A2	6
970119143	15	NUT, M10	2
970119136	16	WASHER,SPRING D10	2
970119135	17	WASHER,PLAIN D10	2
970644008	18	BOLT,HEX M10X 35	2
970498003	19	BOLT,SOCK M 8X 25	1
970119138	20	WASHER,SPRING D 8	3
970301727	21	SUPPORT,MAINBOX-FUEL FILTER 4.	1
970300375	22	SPACER	1

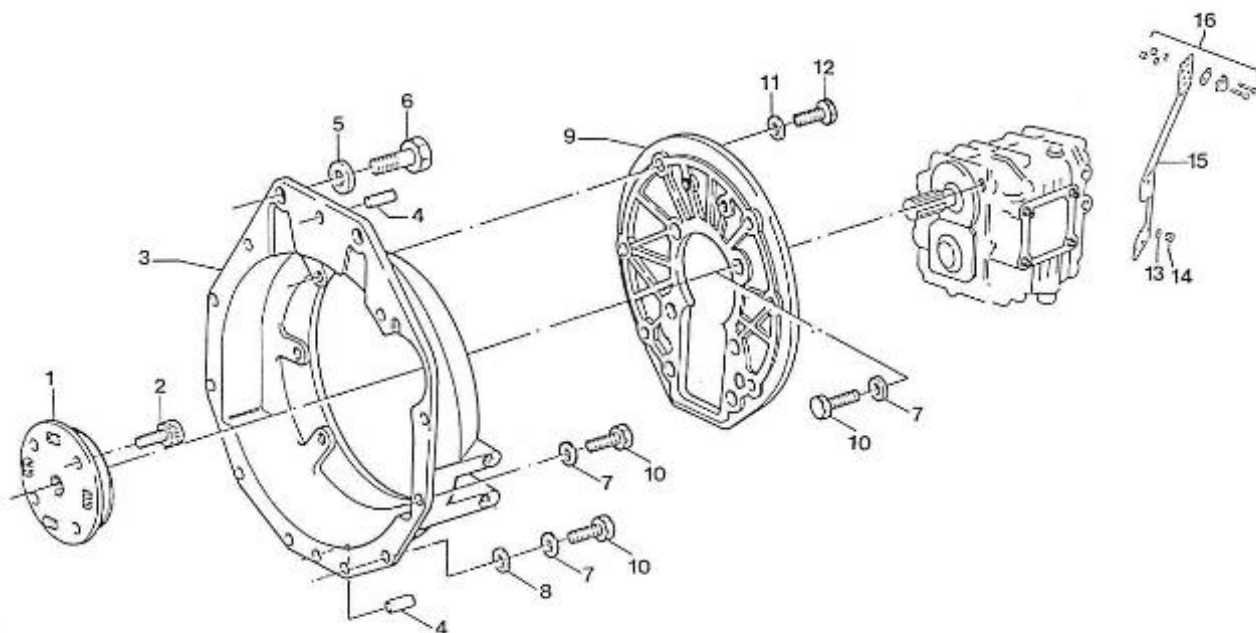


#### 4.190HE STANDARD ENGINE / ELECTRICAL EQUIPMENTS



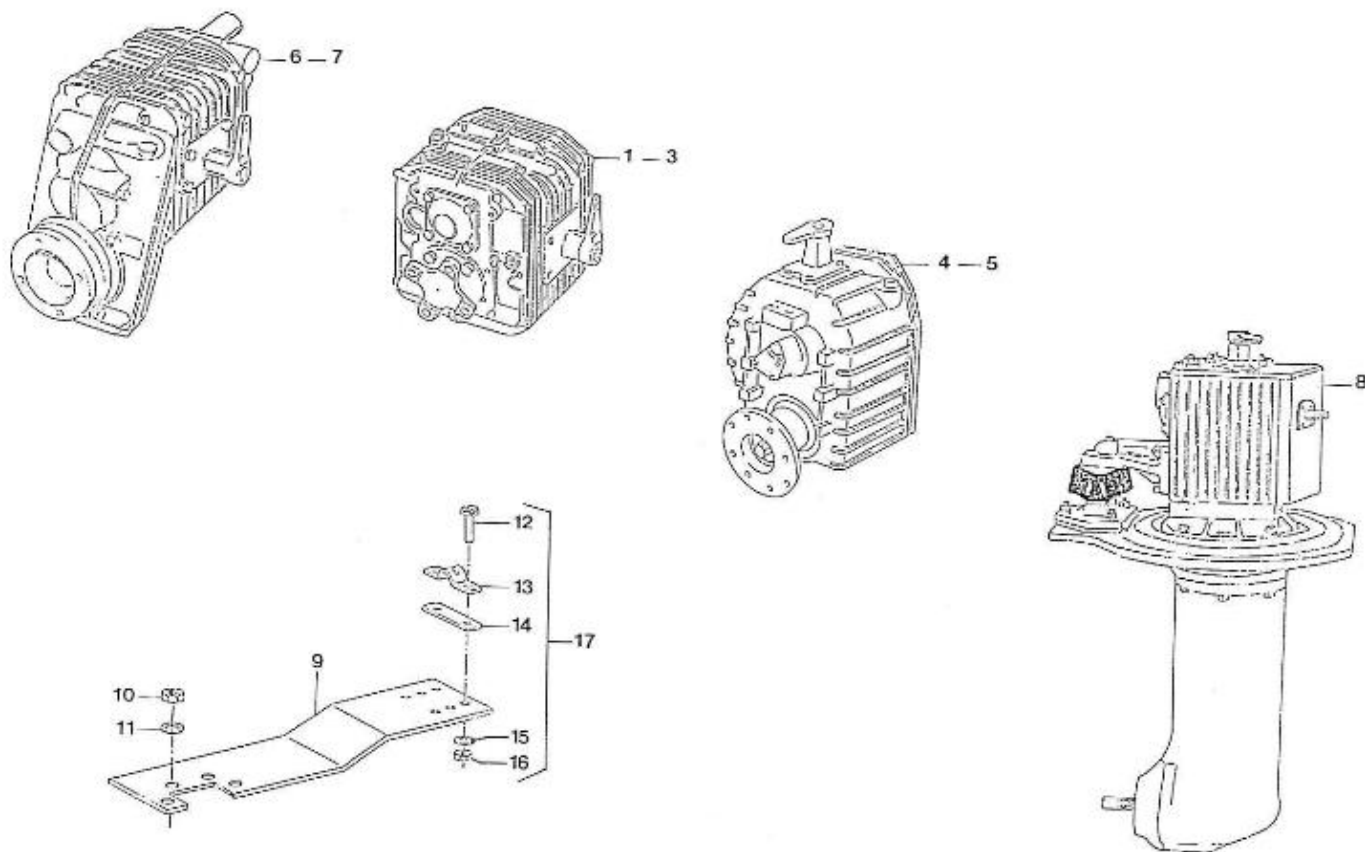
Part number	Item	Désignation article	Quantity
970302070	1	STARTER,MOTOR 12V 0,8KW	1
970302661D	2	WIRING	1
970302082	4	GLOWPLUG,4.190	1
970851725	5	TEMPERATURE SENDER	1
970851602	6	WATER TEMPERATURE SENDER	1
970301580	8	SOLENOID,12V 4.190	1
970851700	10	SWITCH,OIL	1
970493207	11	ELBOW,1/8X10X1,5MF	1
48201143	12	OIL PRESSURE SENDER	1

#### 4.190HE STANDARD ENGINE / GEAR BOX FLANGE



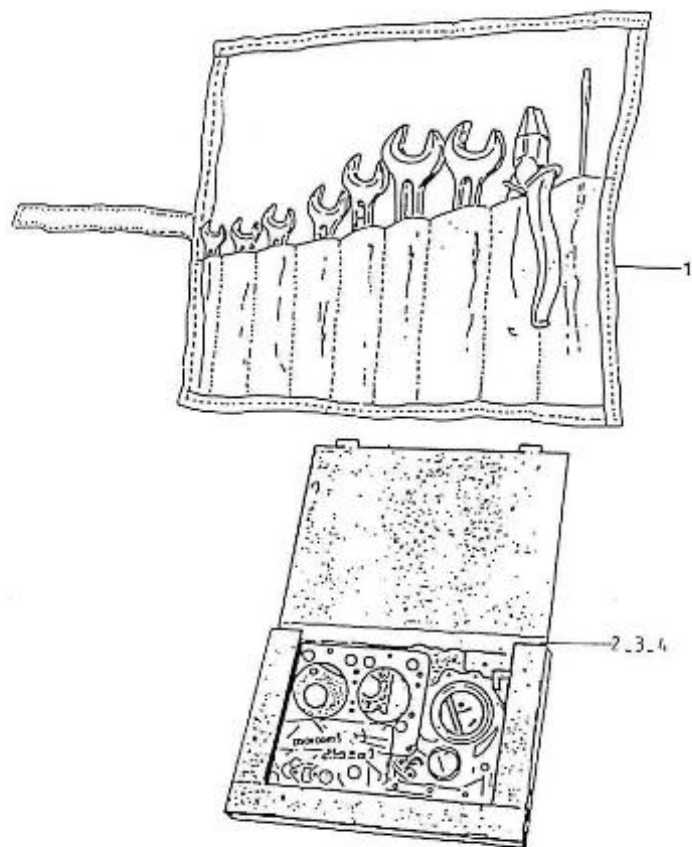
Part number	Item	Désignation article	Quantity
970776350	1	DAMPERPLATE	1
970119147	2	BOLT, SOCK M 6X12	8
970301628H	3	CARTER VOLANT 4.220-5.280	0
970302149	4	PIN,CYLINDRICAL D10X 20	2
970647606	5	WASHER,CORRUGATED D12	2
970301736	6	BOLT,HEX M12X1,25X 30	2
970119139	7	WASHER,CORRUGATED D8	16
970119138	8	WASHER,SPRING D 8	2
970301709	9	PLATE,ADAPTOR HBW50-100-150	1
970119141	10	BOLT,HEX M8X 20	16
970119137	11	WASHER,CORRUGATED D10	6
970635508	12	BOLT,HEX M10X 25	6
970119139	13	WASHER,CORRUGATED D8	2
970027322	14	NUT,M 8	2
970300373	15	SUPPORT,CONTROL HBW	1
970835020	16	CLAMP	1

#### 4.190HE STANDARD ENGINE / GEAR BOX



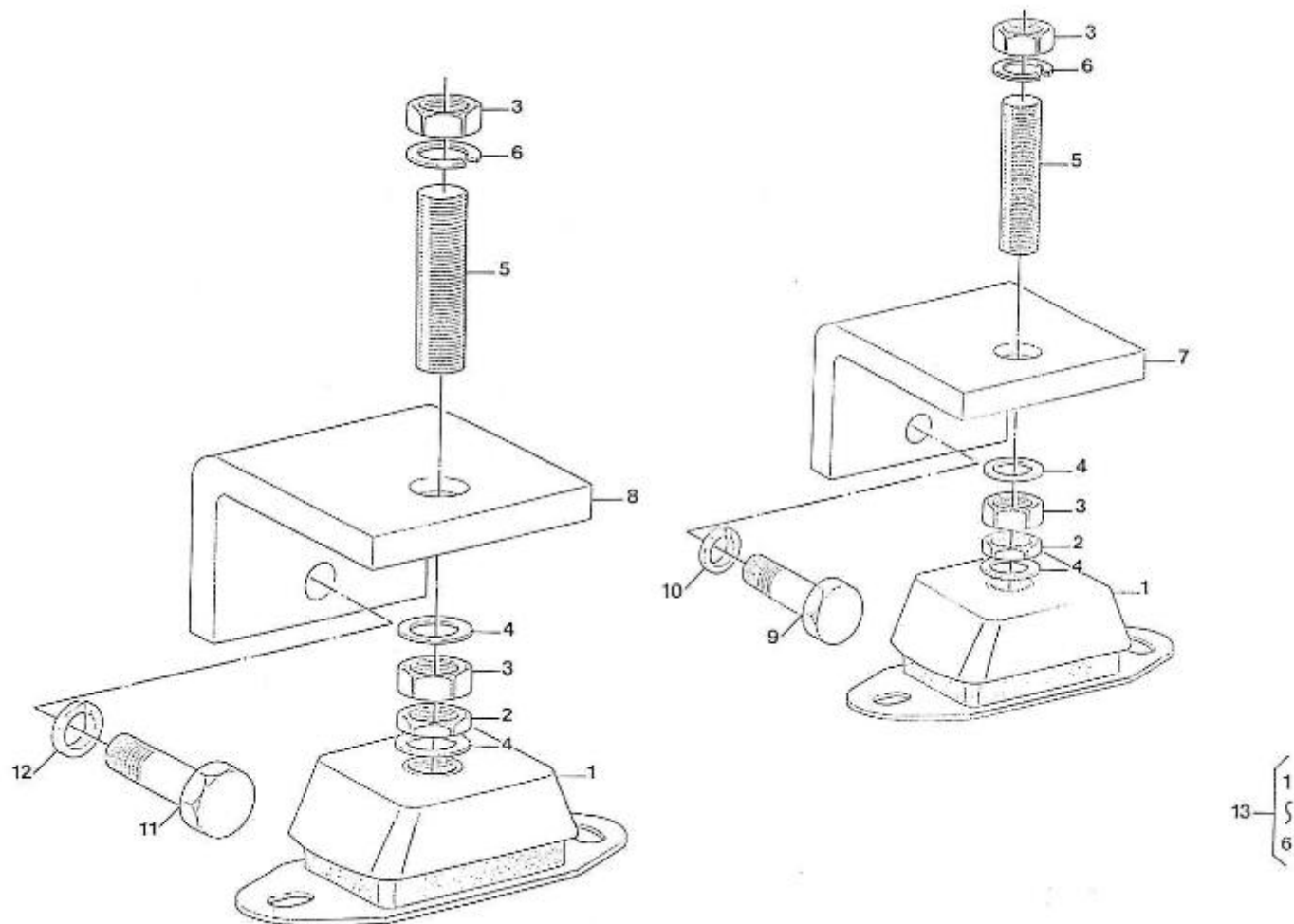
Part number	Item	Désignation article	Quantity
970776330	2	GEARBOX ZF15 M 1.88 S.FL.	1
970307530	3	GEARBOX ZF12 M 2.63	1
970776343	4	ZF15 MA 1.88R	1
970776342	5	GEAR BOX ZF15 MA 2.63	1
970776340	6	GEARBOX ZF 15 MIV 2.13R	1
970776335	7	GEARBOX	1
970300373	9	SUPPORT,CONTROL HBW	1
970027322	10	NUT,M 8	2
970119139	11	WASHER,CORRUGATED D8	2
970300317	12	BOLT,HEX M 5X 16	2
QCC33010TF	13	THREADING COLLAR JACKET 33C	1
QCC33014TF	14	COUNTER PLATE 33/43C	1
970300318	15	WASHER,SPRING D 5	2
970609904	16	NUT,M 5	2
970835020	17	CLAMP	1

#### 4.190HE STANDARD ENGINE / TOOLS - GASKETS KIT



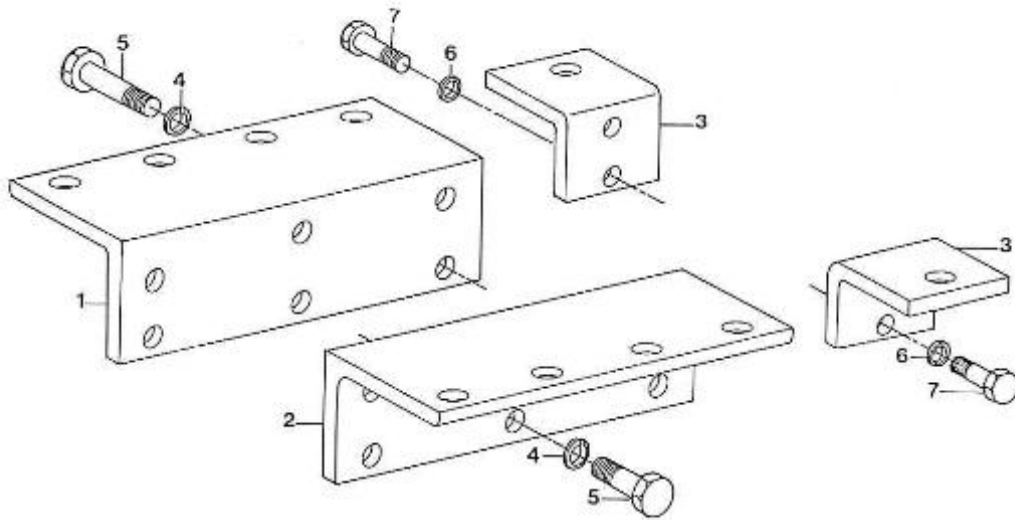
Part number	Item	Désignation article	Quantity
970609901	1	KIT,TOOLS	1
970302472	2	SET,GASKET ENGINE 4.190 UPPER	1
970302473	3	SET,GASKET ENGINE 4.190 LOWER	1
970302130	4	SET,GASKET MARINE 4.190	1

#### 4.190HE STANDARD ENGINE / SUPPORT AND MOUNTING



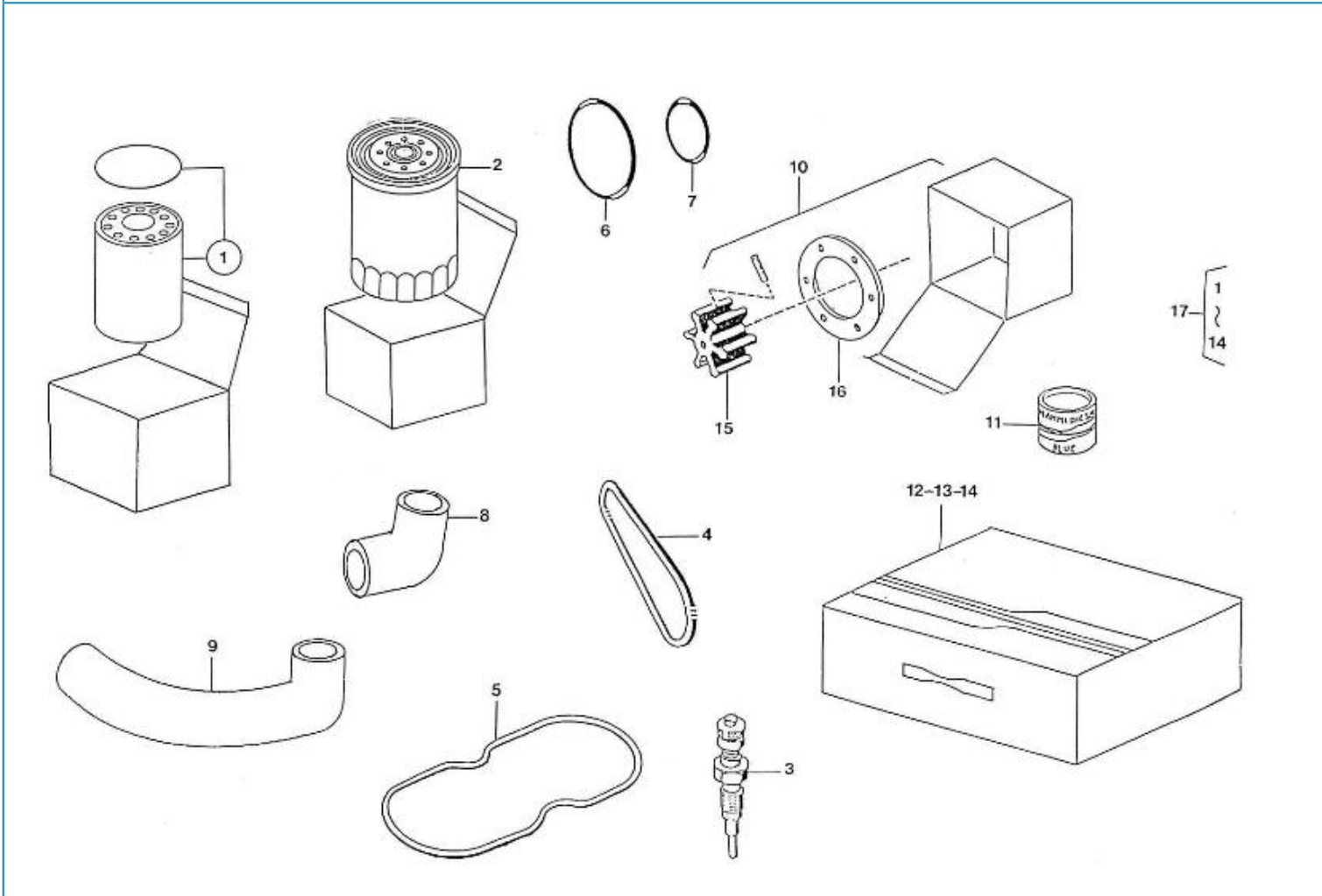
Part number	Item	Désignation article	Quantity
48190023	1	ELASTICAL MOUNT	4
970639203	2	NUT,M16 LOW	4
970896520	3	NUT	8
970649108	4	WASHER,PLAIN D16	8
970609116	5	STUD,M16X100	4
970649109	6	WASHER,SPRING D16	4
970301704	7	SUPPORT,MOUNT FRONT 4.190	2
970301419	8	SUPPORT,MOUNT REAR	2
970499051	9	BOLT,HEX M10X1,25X 30	4
970119136	10	WASHER,SPRING D10	4
970301736	11	BOLT,HEX M12X1,25X 30	4
970409154	12	WASHER,SPRING D12	4
48190023	13	ELASTICAL MOUNT	4

#### 4.190HE STANDARD ENGINE / FIXE SUPPORTS



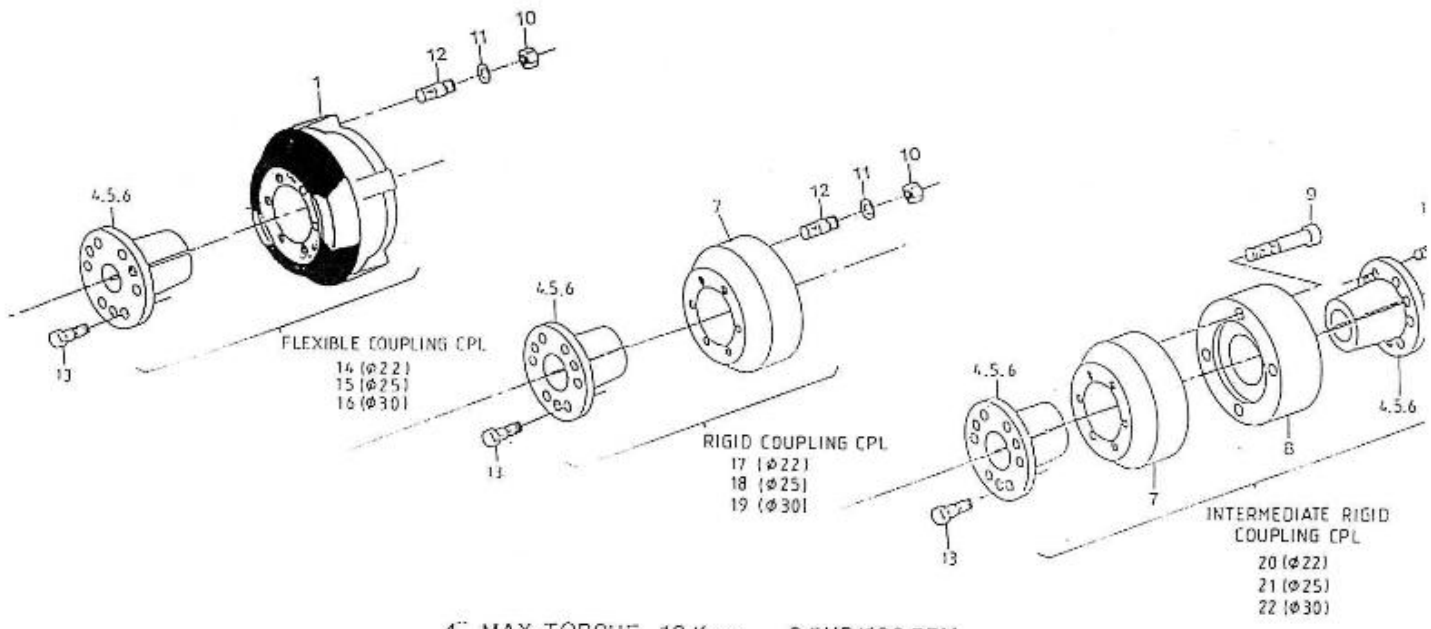
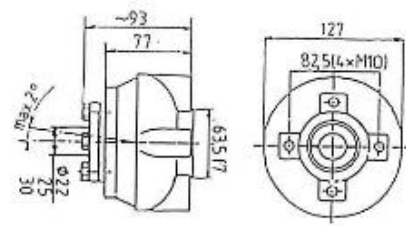
Part number	Item	Désignation article	Quantity
970301419	3	SUPPORT,MOUNT REAR	2
970409154	4	WASHER,SPRING D12	12
970301736	5	BOLT,HEX M12X1,25X 30	12
970119136	6	WASHER,SPRING D10	4
970499051	7	BOLT,HEX M10X1,25X 30	4

#### 4.190HE STANDARD ENGINE / MAINTENANCE KIT



Part number	Item	Désignation article	Quantity
970622350	1	FILTER,FUEL	1
970603003	2	FILTER,ELEMENT OIL 4.180/90	1
970302082	3	GLOWPLUG,4.190	1
970301448	4	V-BELT,SPA 1120 LW	1
970301995	5	GASKET,COVER CYL:HEAD 4.190	1
970301719	6	O-RING,68,00X4,00	2
970154025	7	O-RING,28,17X3,53	1
970301713	8	HOSE,ELBOW COVER HEATEX.4.190	1
970301718	9	HOSE,WATER RETURN D32-34	1
970604591	10	SET,IMPELLER W/PUMP 4.110-190-	1
970301521	11	PAINT,NANNI BLUE 125CC	1
970310008	12	CASE	1
970301347	13	INSERT,CASE	1
970301348	14	INSERT,CASE BOTTOM	1
970604530	15	IMPELLER,WATER PUMP F 5B/-9	1
970604529	16	GASKET,F5B	1

#### 4.190HE STANDARD ENGINE / COUPLING



4" MAX. TORQUE 18 Kgm, 2,5HP/100 RPM

Part number	Item	Désignation article	Quantity
970300733	1	FLEXIBLE COUPLING 4 P	1
970301226	4	""CONE,CLAMPING 4"" 22""	1
970301104	5	""CONE,CLAMPING 4"" 25""	1
970301105	6	""CONE,CLAMPING 4"" 30""	1
970301221	8	COUPLING	1
970609157	9	BOLT,SOCK M10X 55	4
970119143	10	NUT, M10	4
970119136	11	WASHER,SPRING D10	4
970621020	12	STUD,M10X 22	4
970409603	13	BOLT,HEX M 8X 25	6
970307180	14	FLEXIBLE COUPLING	1
970307181	15	FLEXIBLE COUPLING	1
970307182	16	FLEXIBLE COUPLING	1
970307183	17	FLEXIBLE COUPLING	1
970307184	18	FLEXIBLE COUPLING	1
970307185	19	FLEXIBLE COUPLING	1
970307186	20	FLANGE	1
970307187	21	FLANGE	1
970307192	22	SET OF GASKETS	1