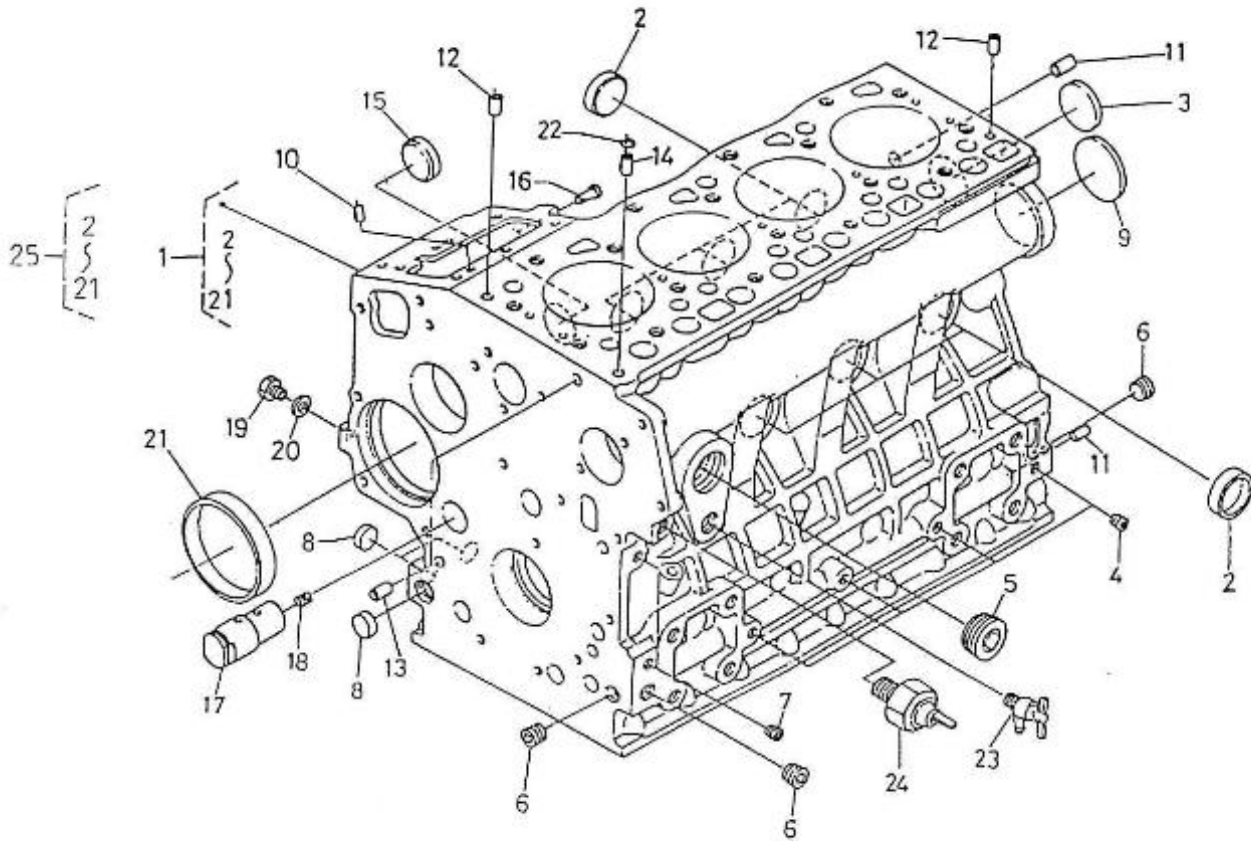


Filtre(s) :

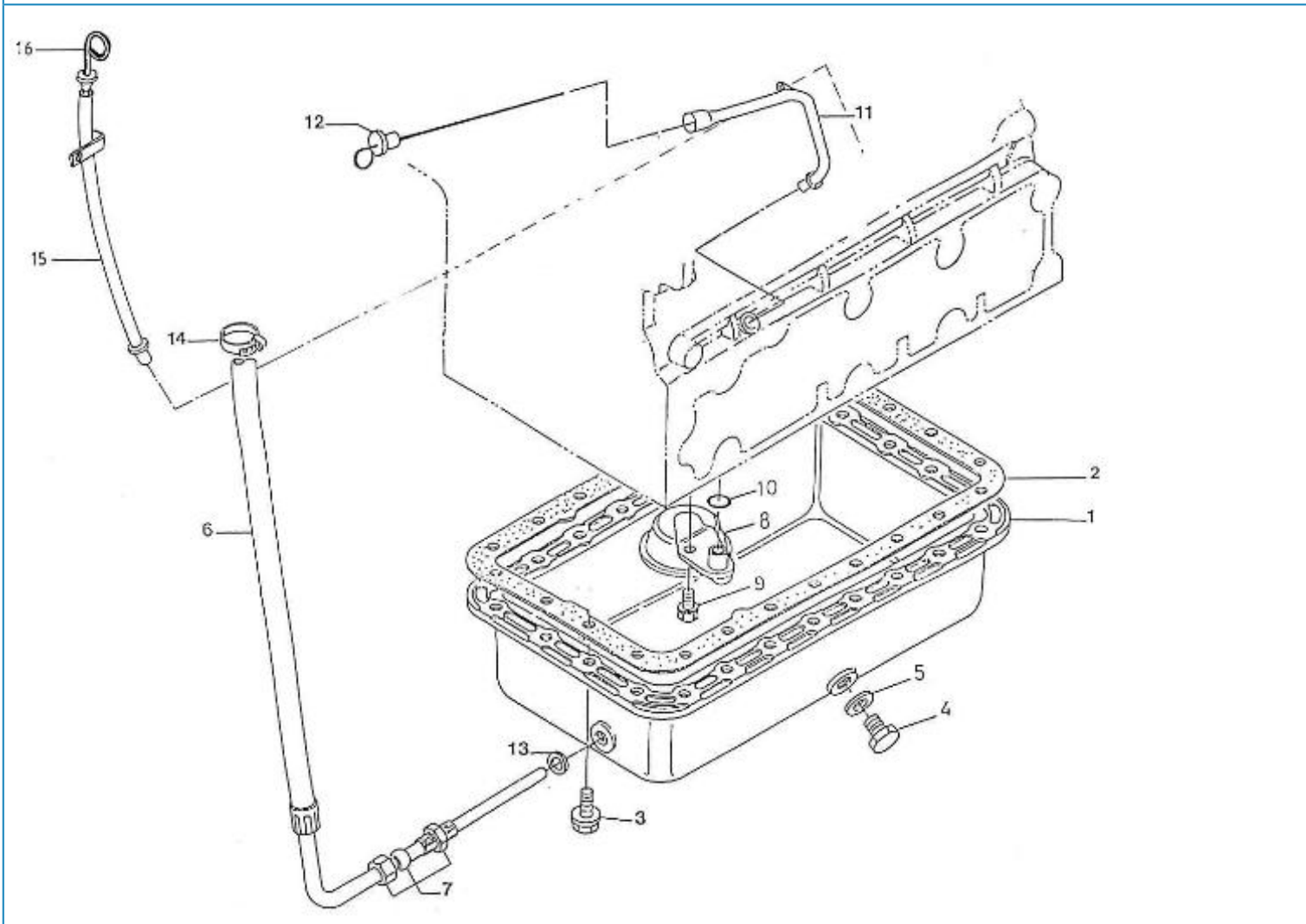
- type: 4.150HE STANDARD ENGINE

## 4.150HE STANDARD ENGINE / ENGINE BLOCK



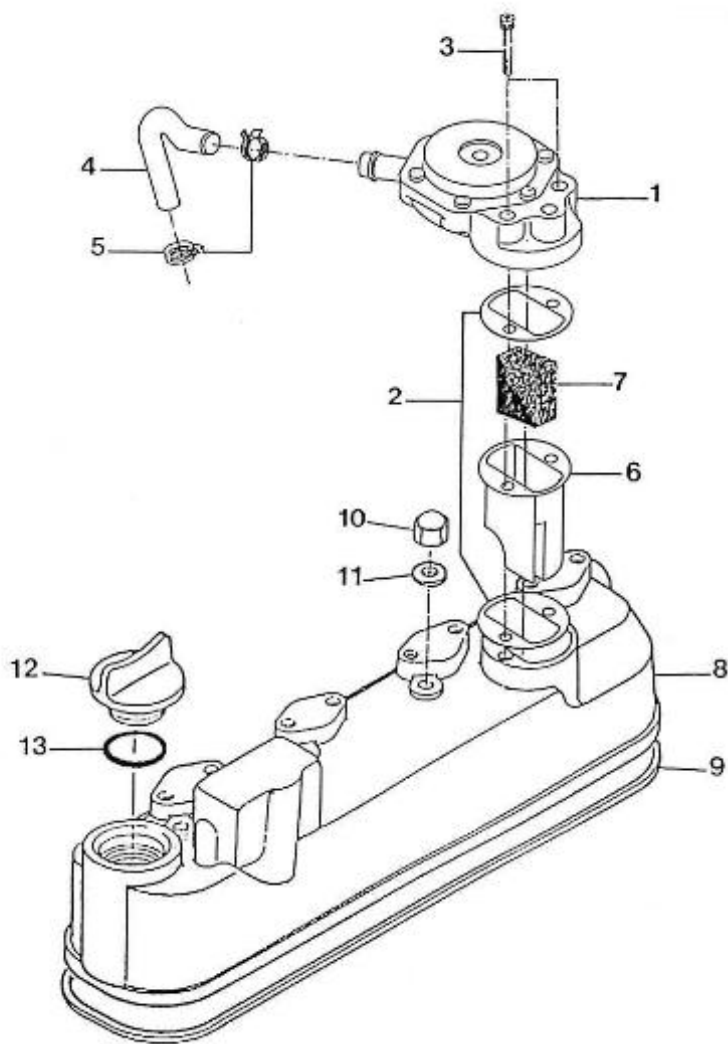
Part number	Item	Désignation article	Quantity
970302701	1	CRANKCASE,CPL.4.150	1
970140104	2	CAP, FREEZE	6
970301938	3	CAP,FREEZE	1
970490107	4	PLUG,SOCK	4
970310311	5	PLUG	1
970302703	6	PLUG,SOCK	3
970490108	7	PLUG,SOCK	2
970301903	8	PLUG	3
970301904	9	PLUG,EXPANSION	1
970140109	10	PIN, CYLINDRICAL	2
970490111	11	PIN,CYLINDRICAL	2
970302705	12	WIRING,INTERMEDIATE 6MTR 11POS	2
970490113	13	PIN,PIPE	2
970302706	14	PIN,PIPE	1
970302707	15	CAP,FREEZE	1
970490204	16	PIN,TIMING COVER	1
970302708	17	SHAFT,IDLE GEAR 2	1
970302043	18	SCREW,SET	1
970301912	19	PLUG	1
970491131	20	WASHER,SEAL	1
970302709	21	BUSH,GOVERNOR GEAR	1
970490116	22	O-RING	1
970140114	23	PLUG, DRAIN -400	1
970851700	24	SWITCH,OIL	1

#### 4.150HE STANDARD ENGINE / OIL SUMP - OIL PUMP



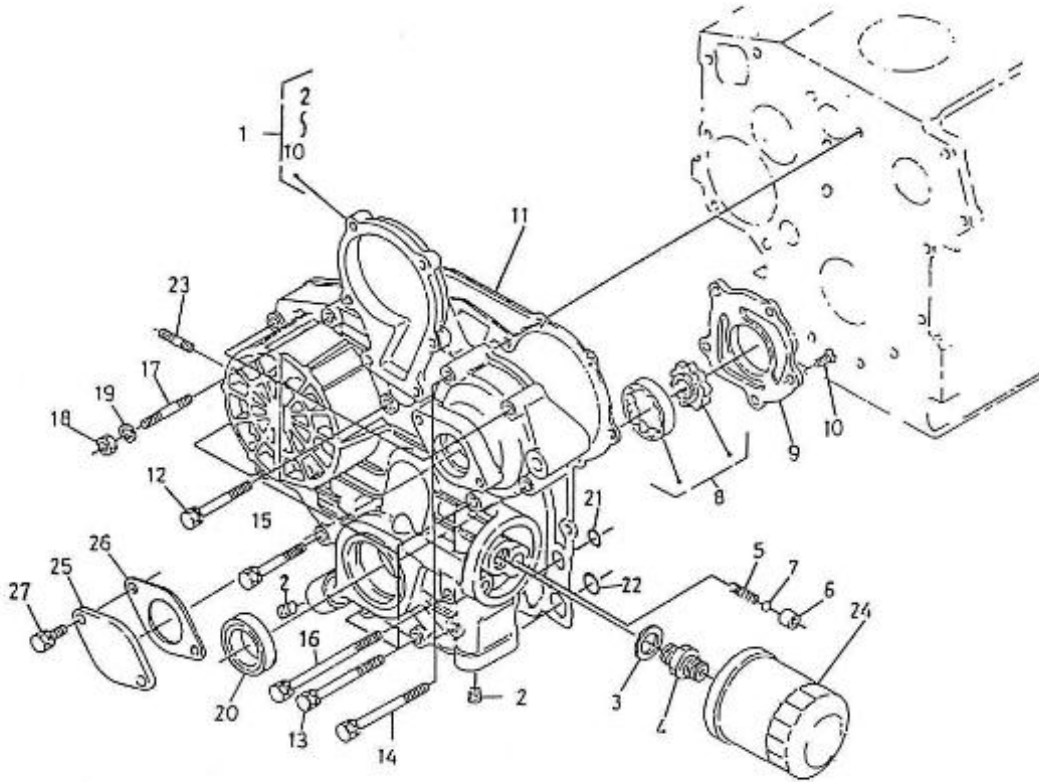
Part number	Item	Désignation article	Quantity
970302710	1	PAN,OIL 4.150	1
970302711	2	GASKET,OIL PAN 4.150	1
970140123	3	BOLT ,M 6X12	26
970307907	4	PLUG,DRAIN	1
970307489	5	GASKET	1
970304001	6	HOSE,OIL EXTRACTION 4.150 CPL.	1
970302714	8	FILTER,OIL PAN 4.150	1
970490919	9	BOLT,M 8X 16	1
970301951	10	O-RING	1
970302637	12	DIPSTICK	1
970300199	13	GASKET,RING D16	1
970439306	14	CLAMP	1
970307727	15	GUIDE,TUBE OIL DIPSTICK	1
970302715	16	DIPSTICK,OIL LEVEL 4.150	1

#### 4.150HE STANDARD ENGINE / CYLINDER HEAD COVER



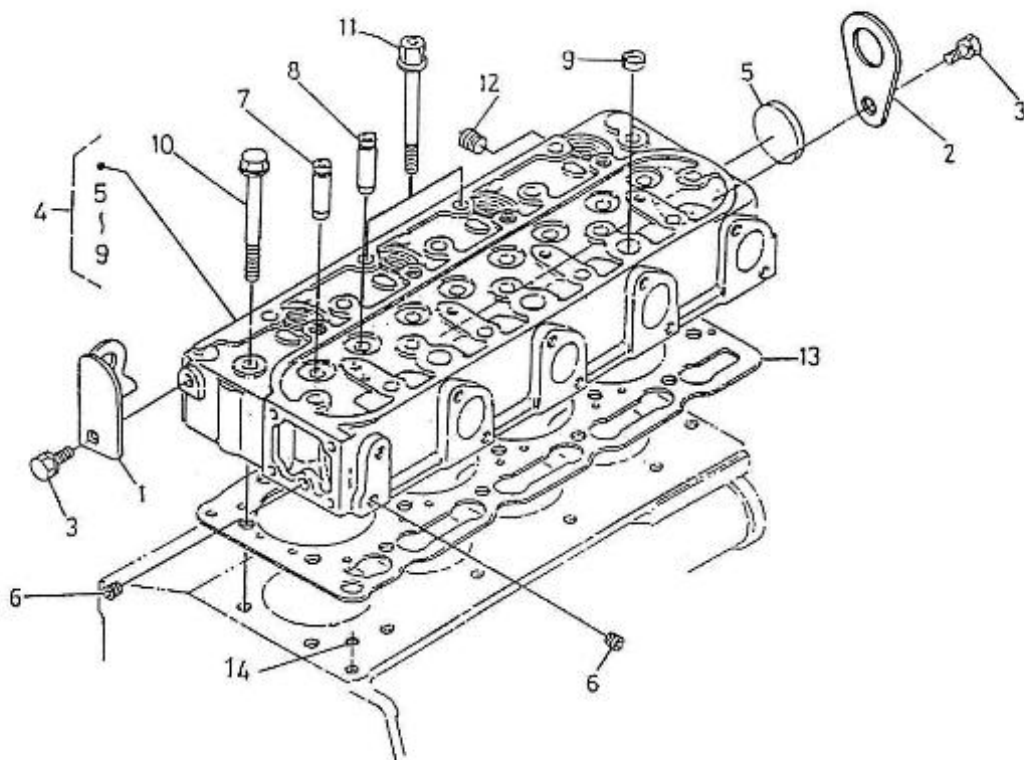
Part number	Item	Désignation article	Quantity
970302770	1	BREATHER,OIL CPL.4.150	1
970302767	2	GASKET,BREATHER	2
970141325	3	BOLT, M6X35	2
970302766	4	PIPE,BREATHER	1
970302811	5	CLAMP,PIPE	2
970302768	6	HOUSING,BREATHER ELEMENT	1
970302769	7	FILTER,BREATHER ELEMENT	1
970302764	8	COVER,CYLINDER HEAD 4.150	1
970302765	9	GASKET,COVER CYL:HEAD 4.150	1
970490503	10	NUT,CAP	4
970490505	11	GASKET,RING	4
970490510	12	CAP,FILLING OIL	1
970490511	13	O-RING	1

#### 4.150HE STANDARD ENGINE / TIMING GEAR CASE



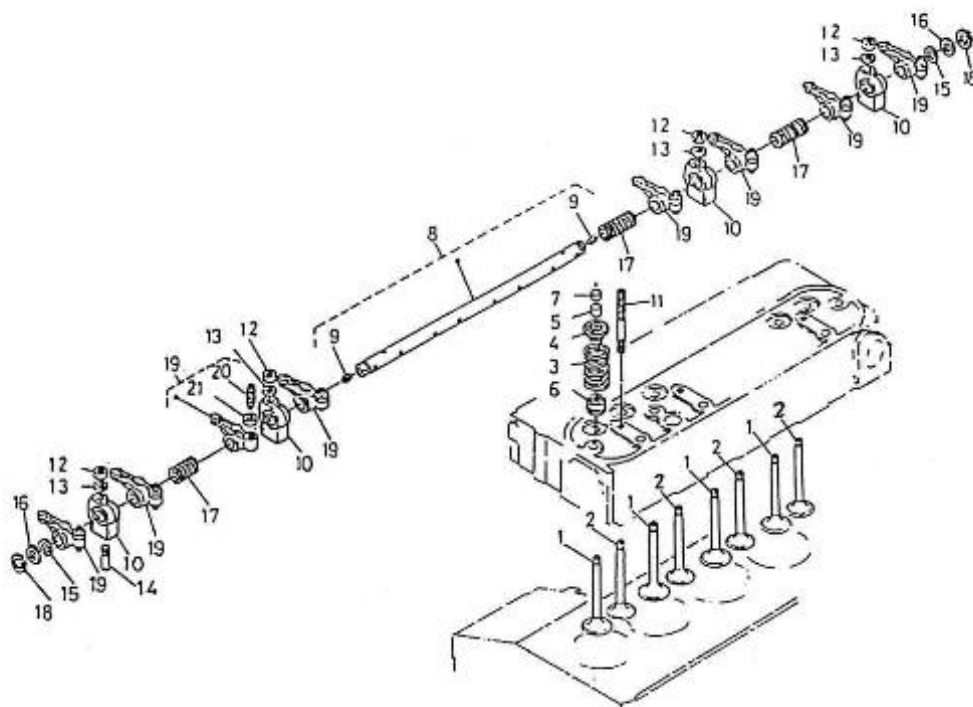
Part number	Item	Désignation article	Quantity
970302726	1	COVER,TIMING CASE CPL.4.150	1
970302073	3	GASKET,RING	1
970302728	4	NIPPLE	1
970302729	5	SPRING	1
970302730	6	SEAT,VALVE	1
970302731	7	BEARING,BALL	1
970302732	8	ASSY,ROTOR OIL PUMP	1
970302733	9	COVER,OIL PUMP	1
970302734	10	SCREW,ROUND HEAD	5
970302735	11	GASKET,TIMING CASE 4.150	1
970302736	12	BOLT,M 6X 45	3
970302737	13	BOLT,M 6X 50	6
970316046	14	SCREW	2
970144311	15	BOLT	1
970302739	16	BOLT	1
970302740	17	STUD,M 6X 45	1
970151133	18	NUT,M 6	1
970119149	19	WASHER, SPRING D 6	1
970302741	20	SEAL,OIL	1
970302003	21	O-RING	2
970301922	22	O-RING	2
970492513	23	STUD, M 6X 16	2
970302742	24	FILTER,ELEMENT OIL 4.150 3.110	1
970302743	25	COVER,H/METER UNIT	1
970302744	26	GASKET,H/METER UNIT	1
970491117	27	BOLT,M 6X 16	2

#### 4.150HE STANDARD ENGINE / CYLINDER HEAD



Part number	Item	Désignation article	Quantity
970490901	2	HOOK,ENGINE 2.60-3.90-4.110	1
970313311	3	BOLT	2
970302719	4	HEAD,CYLINDER CPL 4.150	1
970140904	5	CAP, FREEZE	1
970490107	6	PLUG,SOCK	2
970302720	7	GUIDE,VALVE INTAKE 4.150	4
970302721	8	GUIDE,VALVE EXHAUST 4.150	4
970302722	9	CAP,FREEZE	3
970302723	10	BOLT,CYL:HEAD	16
970302724	11	BOLT,CYL:HEAD	2
970140908	12	PLUG, CYL.HEAD 2.40	1
970302725	13	GASKET,CYL:HEAD 4.150	1
970490116	14	O-RING	1

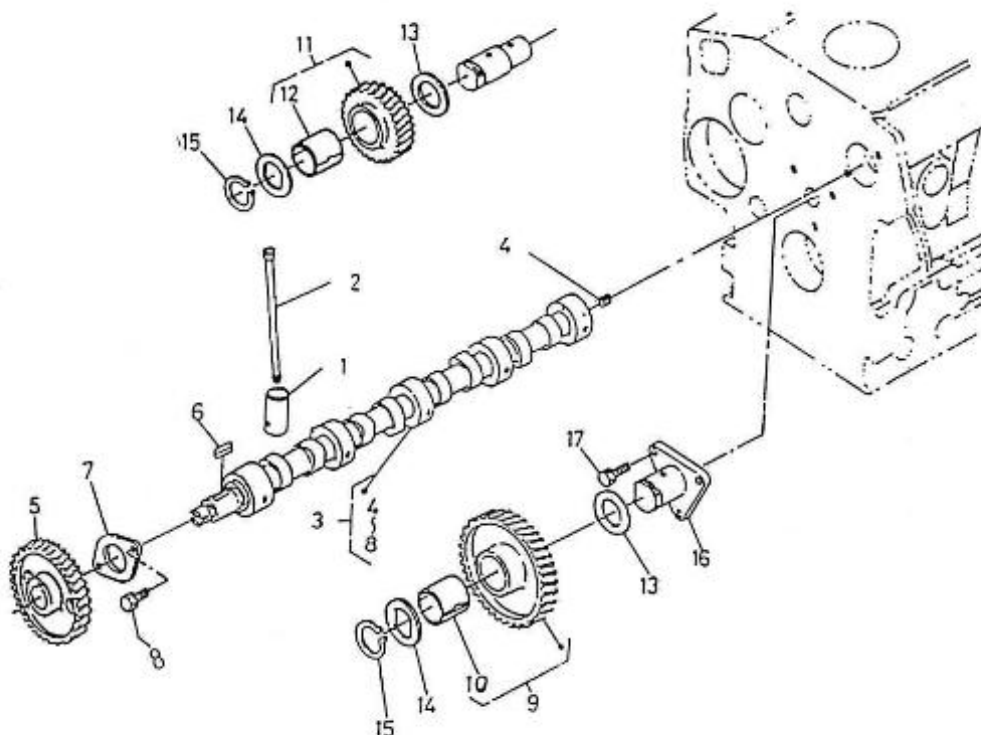
#### 4.150HE STANDARD ENGINE / VALVES AND SPRINGS



Part number	Item	Désignation article	Quantity
970302780	1	VALVE,INTAKE 4.150	4
970302781	2	VALVE,EXHAUST 4.150	4
970302782	3	SPRING,VALVE	8
970491004	4	RETAINER,VALVE SPRING	8
970491005	5	COLLET,VALVE SPRING	8
970311008	6	INLET VALVE SEAL	8
970491007	7	CAP,VALVE	8
970302785	8	SHAFT,ROCKER ARM	1
970302787	10	BRACKET,ROCKER ARM	4
970302788	11	STUD	4
970491013	12	NUT	4
970491014	13	WASHER,PLAIN	4
970491015	14	SCREW,SET	1
970302789	15	WASHER,1	2
970302790	16	WASHER,2	2
970302791	17	SPRING,ROCKER,ARM	3
970302792	18	CIR-CLIP,EXTERNAL	2
970313394	19	ASSY ROCKER ARM	8
970302794	20	SCREW,ADJUSTING	8
970302795	21	NUT	8

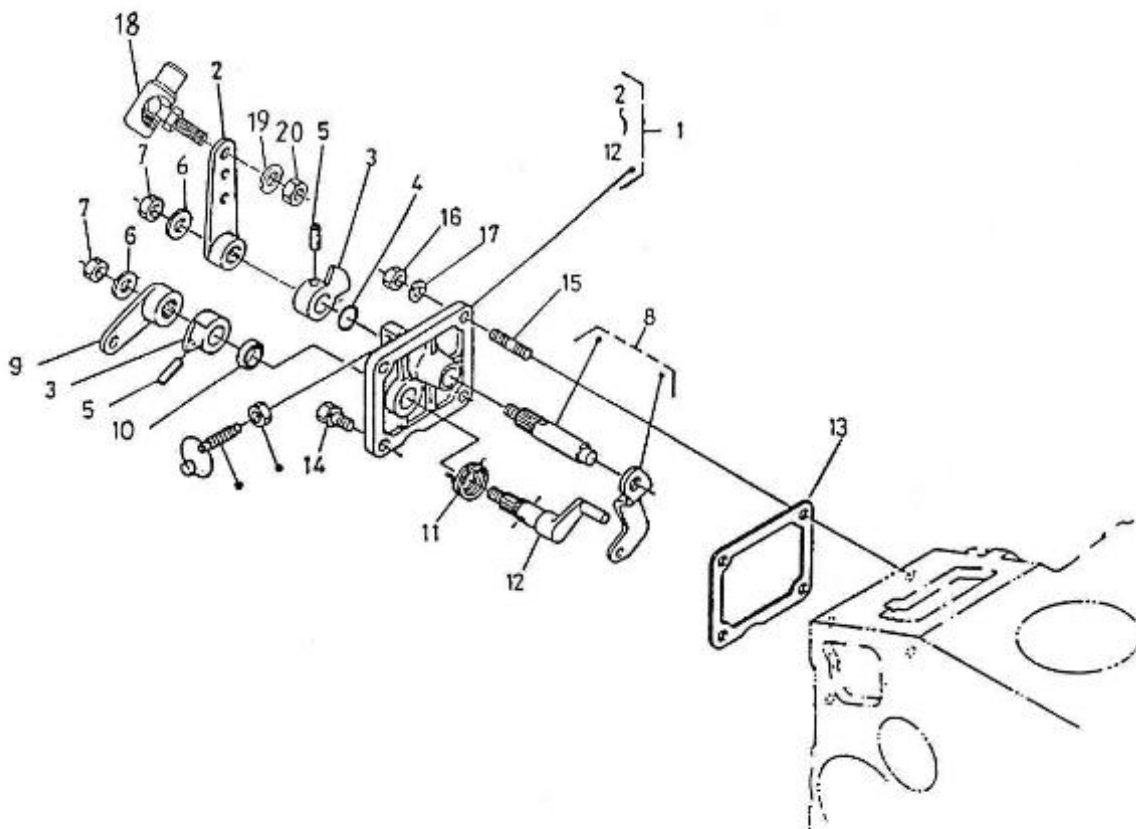


#### 4.150HE STANDARD ENGINE / CAMSHAFT



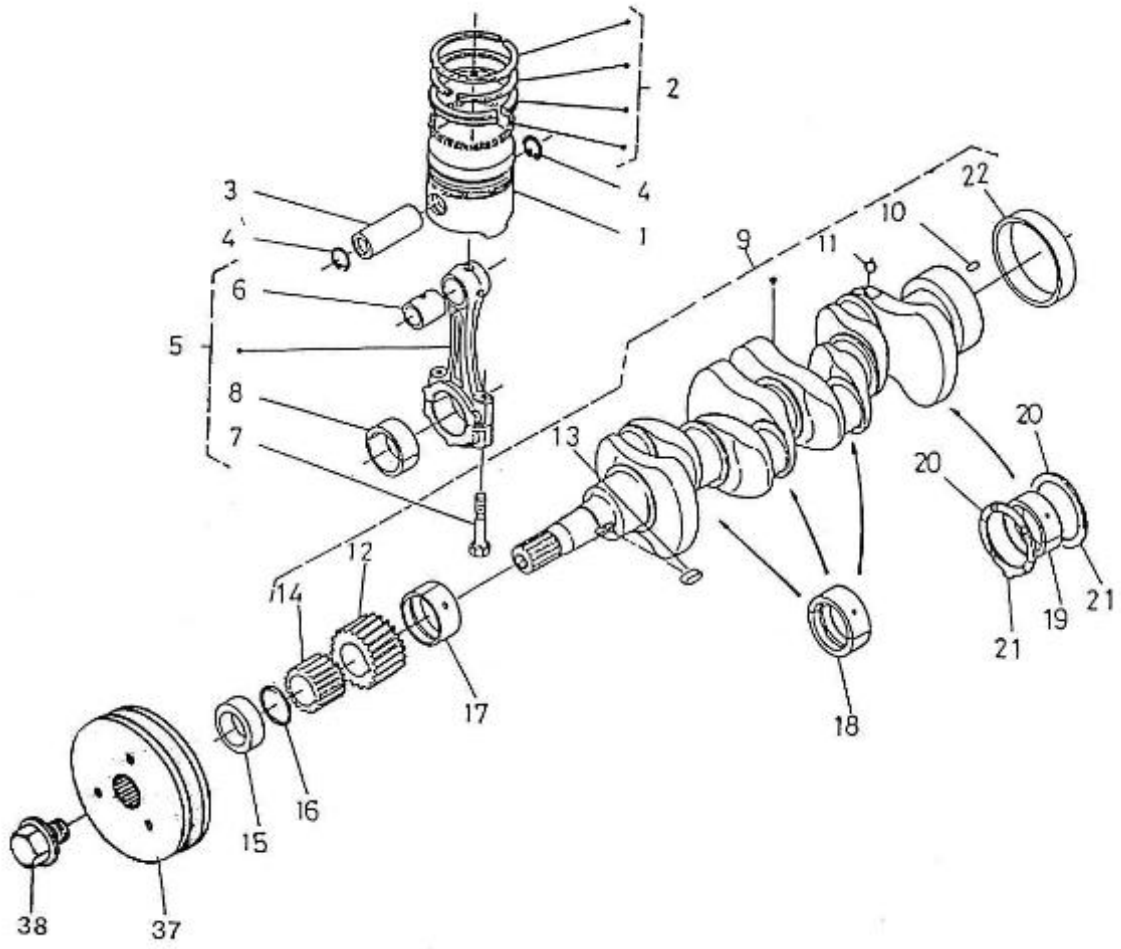
Part number	Item	Désignation article	Quantity
970491101	1	TAPPET	8
970302796	2	ROD,PUSH	8
970302797	3	CAMSHAFT,CPL.4.150	1
970302043	4	SCREW,SET	1
970302798	5	GEAR,CAMSHAFT	1
970141106	6	KEY, FEATHER CAMSHAFT 2.40-4.1	1
970302799	7	STOPPER,CAMSHAFT	1
970490508	8	BOLT,M 6X 14	2
970302800	9	GEAR,IDLE CPL.N01	1
970302801	10	BUSHING,IDLE GEAR	1
970302802	11	GEAR,IDLE CPL.N02	1
970302801	12	BUSHING,IDLE GEAR	1
970302803	13	COLLAR,IDLE GEAR 1	2
970302804	14	COLLAR,IDLE GEAR 2	2
970302805	15	CIR-CLIP,IDLE GEAR	2
970302806	16	SHAFT,IDLE GEAR 1	1
970491117	17	BOLT,M 6X 16	3

#### 4.150HE STANDARD ENGINE / ACCELERATOR



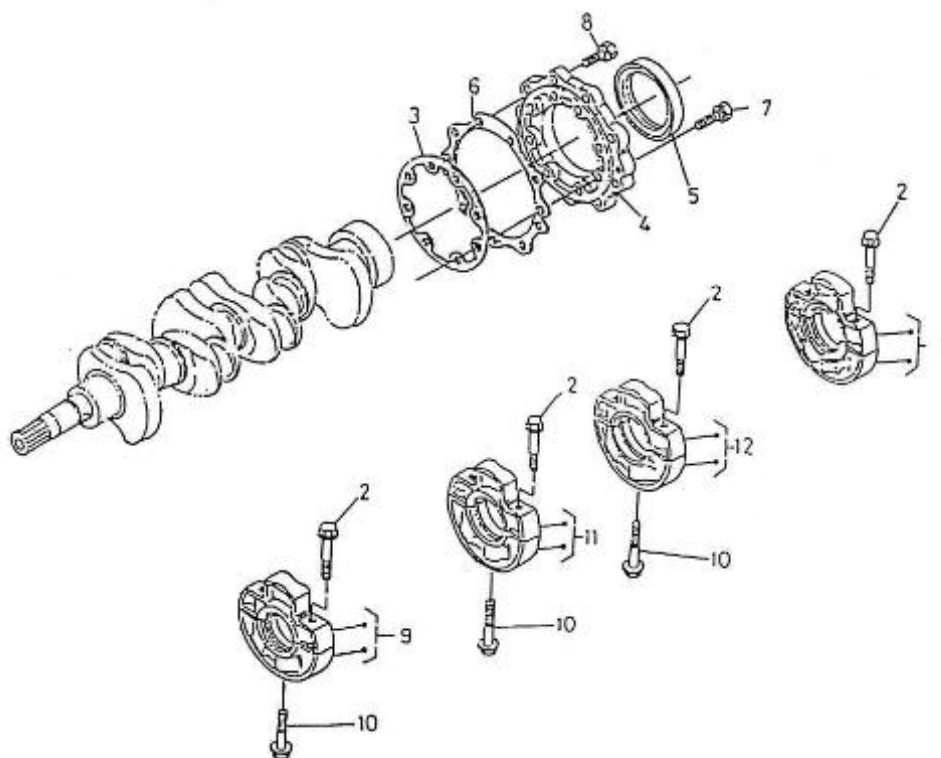
Part number	Item	Désignation article	Quantity
970302853	1	PLATE,CONTROL CPL.4.150	1
970302854	2	LEVER,SPEED CONTROL	1
970302855	3	LEVER,SPEED CONTROL	2
970302856	4	O-RING	1
970151130	5	PIN,SPRING RETAINER	2
970302857	6	WASHER,PLAIN	2
970302858	7	NUT	2
970302859	8	LEVER,GOVERNOR CPL.	1
970302860	9	LEVER,ENGINE STOP	1
970302861	10	SEAL,OIL	1
970302862	11	SPRING,RETURN LEVER	1
970302863	12	SHAFT,STOP LEVER	1
970302864	13	GASKET	1
970491117	14	BOLT,M 6X 16	2
970492513	15	STUD, M 6X 16	2
970151133	16	NUT,M 6	2
970119149	17	WASHER, SPRING D 6	2
970830124	18	JOINT	1
970119149	19	WASHER, SPRING D 6	1
970635460	20	NUT,M 6	1
970302607	21	SUPPORT,ACC.CONTROL (S5)	1
970835020	22	CLAMP	1

#### 4.150HE STANDARD ENGINE / CRANKSHAFT-PISTONS



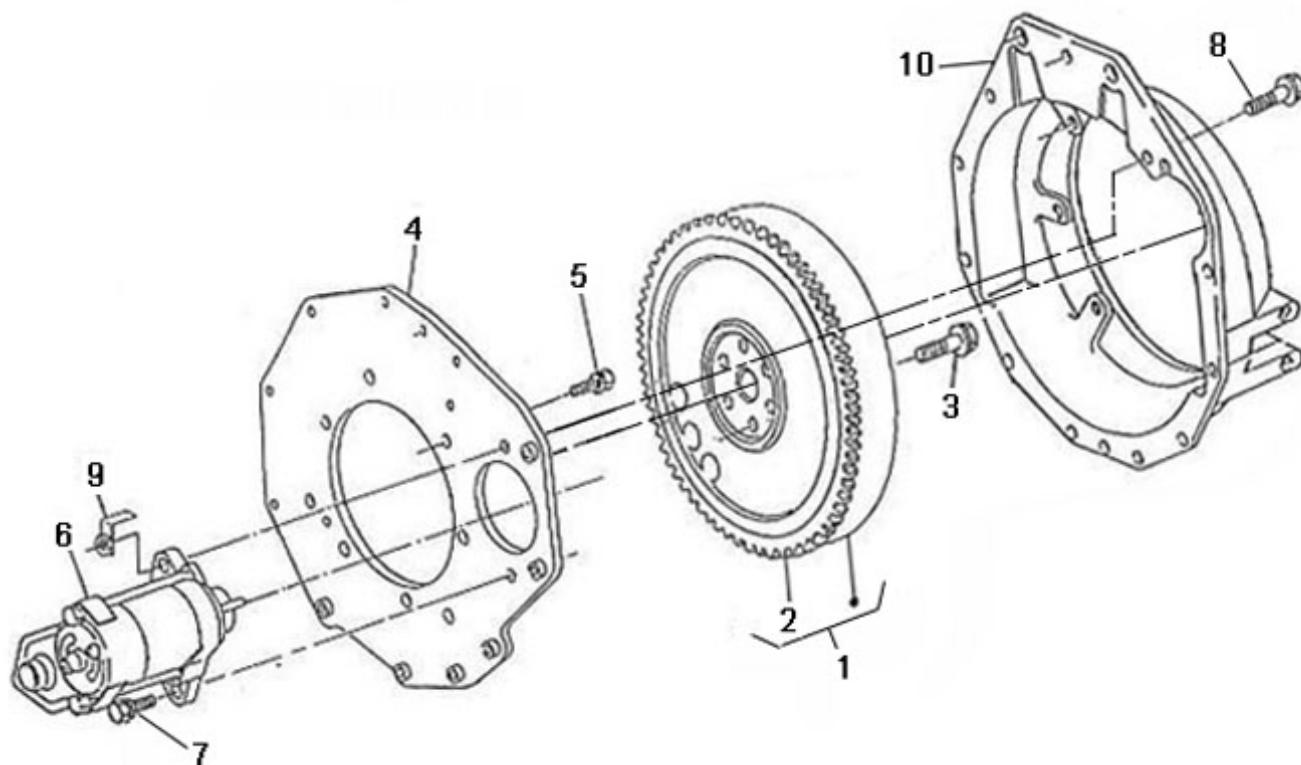
Part number	Item	Désignation article	Quantity
970315155	1	PISTON,4.150	1
970302889	2	SET,PISTON RING STD.4.150	4
970302890	3	PIN,PISTON	4
970302891	4	CIR-CLIP	8
970315488	5	ASSY ROD,CONNECTING	4
970302893	6	BUSH,CONN.ROD	4
970302894	7	BOLT,CONN.ROD	8
970302895	8	METAL,CONN.ROD STD.-SET-	4
970302896	9	CRANKSHAFT,CPL.4.150	1
970140109	10	PIN, CYLINDRICAL	1
970302897	11	BEARING,BALL	4
970304116	12	GEAR,CRANKSHAFT	1
970302899	13	KEY,FEATHER	1
970302900	14	GEAR,OIL PUMP DRIVE	1
970302902	15	COLLAR,CRANKSHAFT	1
970302903	16	O-RING,CRANKSHAFT 4.150	1
970302904	17	METAL,CRANKSHAFT 1 STD.	1
970302905	18	METAL,CRANKSHAFT 2 STD. -SET-	3
970315453	19	METAL,CRANKSHAFT	1
970301974	20	METAL,SIDE 1	2
970301975	21	METAL,SIDE 2	2
970302901	22	SLEEVE,CRANKSHAFT	1
970302776	23	PISTON,+0,5	4
970302778	24	SET,PISTON RING +0,5	4
970302774	25	METAL,CONN.ROD -0.2MM -SET-	4
970302775	26	METAL,CONN.ROD -0.4MM -SET-	4
970302779	27	METAL,CRANKSHAFT 1 -0,2	1
970302907	28	METAL,CRANKSHAFT 1 -0,4	1
970302908	29	METAL,CRANKSHAFT 2 -0,2 -SET-	3
970302909	30	METAL,CRANKSHAFT 2 -0,4 -SET-	3
970302910	31	METAL,CRANKSHAFT 3 -0,2 -SET-	1
970302911	32	METAL,CRANKSHAFT 3 -0,4 -SET-	1
970307345	33	METAL,SIDE 1-02	2
970302912	34	METAL,SIDE 1 +0,4	2
970302409	35	METAL,SIDE 2 +0,2	2
970302913	36	METAL,SIDE 2 +0,4	2
970307072	37	PULLEY,FAN DRIVE	1
970307073	38	BOLT	1

#### 4.150HE STANDARD ENGINE / CRANKSHAFT-BEARINGS



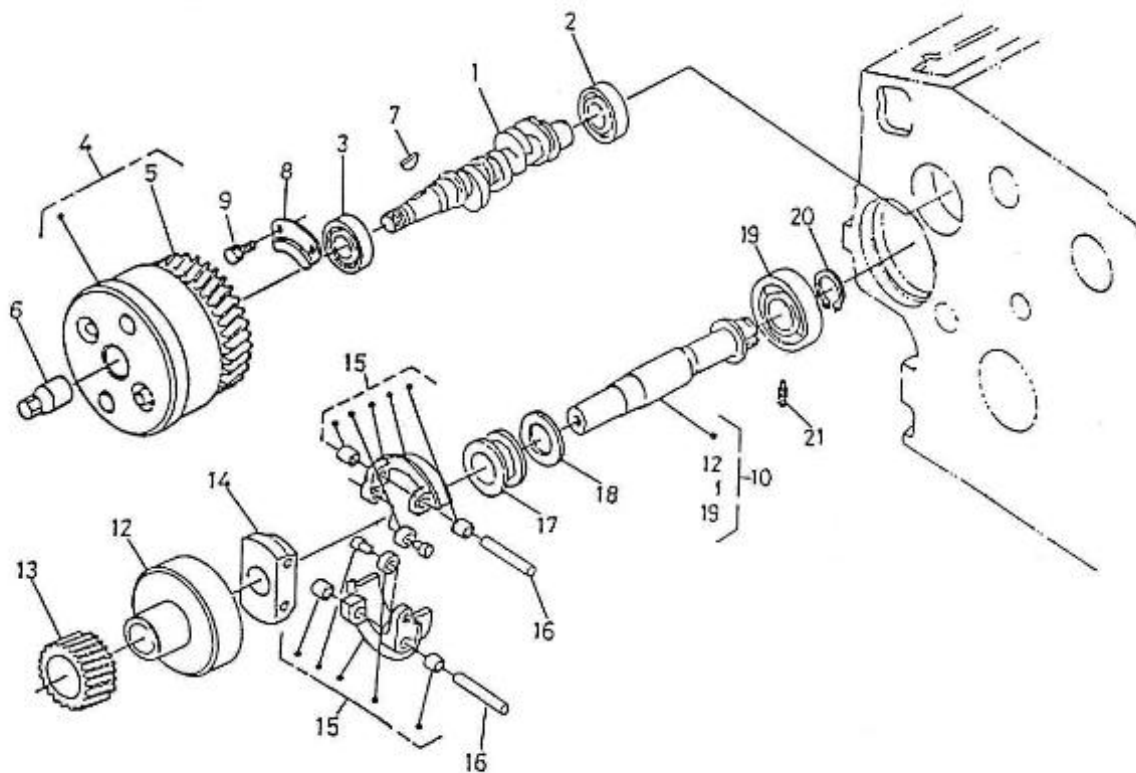
Part number	Item	Désignation article	Quantity
970302754	1	BEARING,MAIN ASSY 4.150	1
970302755	2	BOLT,BEARING CASE N01	8
970302756	3	GASKET,BEARING CASE	1
970315431	4	COVER,BEARING CASE	1
970302758	5	SEAL,OIL	1
970302759	6	GASKET,BEARING CASE	1
970491537	7	BOLT,M 6X 25	8
970491536	8	BOLT,M 6X 20	9
970302760	9	BEARING,MAIN ASSY N01 4.150	1
970302761	10	BOLT,BEARING CASE N02	3
970302762	11	BEARING,MAIN ASSY N02 4.150	1
970302763	12	BEARING,MAIN ASSY N03 4.150	1

#### 4.150HE STANDARD ENGINE / FLYWHEEL



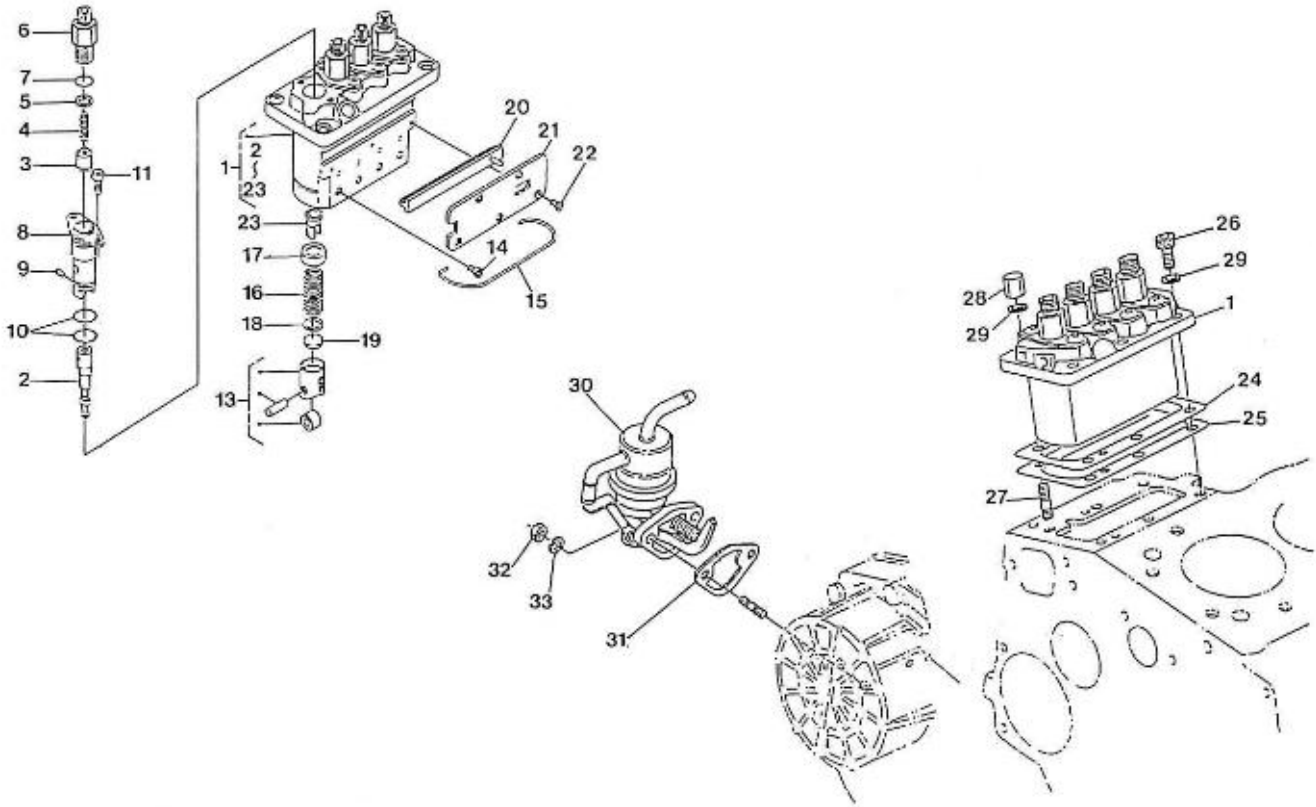
Part number	Item	Désignation article	Quantity
970302807	1	FLYWHEEL,CPL.4.150	1
970313418	2	GEAR,RING	1
970302809	3	BOLT,FLYWHEEL	6
970302810	4	PLATE,REAR END 4.150	1
970491709	5	BOLT,REAR END PLATE	8
970517303	6	STARTER,MOTOR 12V 1,0KW 1P	1
970409603	7	BOLT,HEX M 8X 25	1
970635917	8	BOLT,SOCK M 8X 40	1
970302639	9	SUPP,MOUNTING STARTER MOTOR S5	1
970301400	10	HOUSING,FLYWHEEL (S5 H/HE)	1

#### 4.150HE STANDARD ENGINE / CAMSHAFT INJECTION PUMP



Part number	Item	Désignation article	Quantity
970302834	1	CAMSHAFT,FUEL 4.150	1
970302835	2	BEARING,CASE	1
970302836	3	BEARING,CASE	1
970302837	4	TIMING,DEVICE CPL.4.150	1
970302838	5	GEAR,INJ.PUMP	1
970302839	6	NUT,CAP	1
970302840	7	KEY,FEATHER	1
970302841	8	STOPPER,FUEL CAMSHAFT	1
970140123	9	BOLT ,M 6X12	2
970302843	12	SHAFT,GOVERNOR GEAR 4.150	1
970302844	13	GEAR,GOVERNOR	1
970302845	14	SUPPORT,GOVERNOR WEIGHT	1
970310309	15	COMP.WEIGHT,GOVERNOR	2
970302847	16	SHAFT,GOVERNOR WEIGHT	2
970302848	17	SLEEVE,GOVERNOR	1
970302849	18	WASHER,THRUST	1
970302850	19	BEARING,CASE	1
970302851	20	CIR-CLIP,GOVERNOR SHAFT	1
970302852	21	SCREW,SET	1

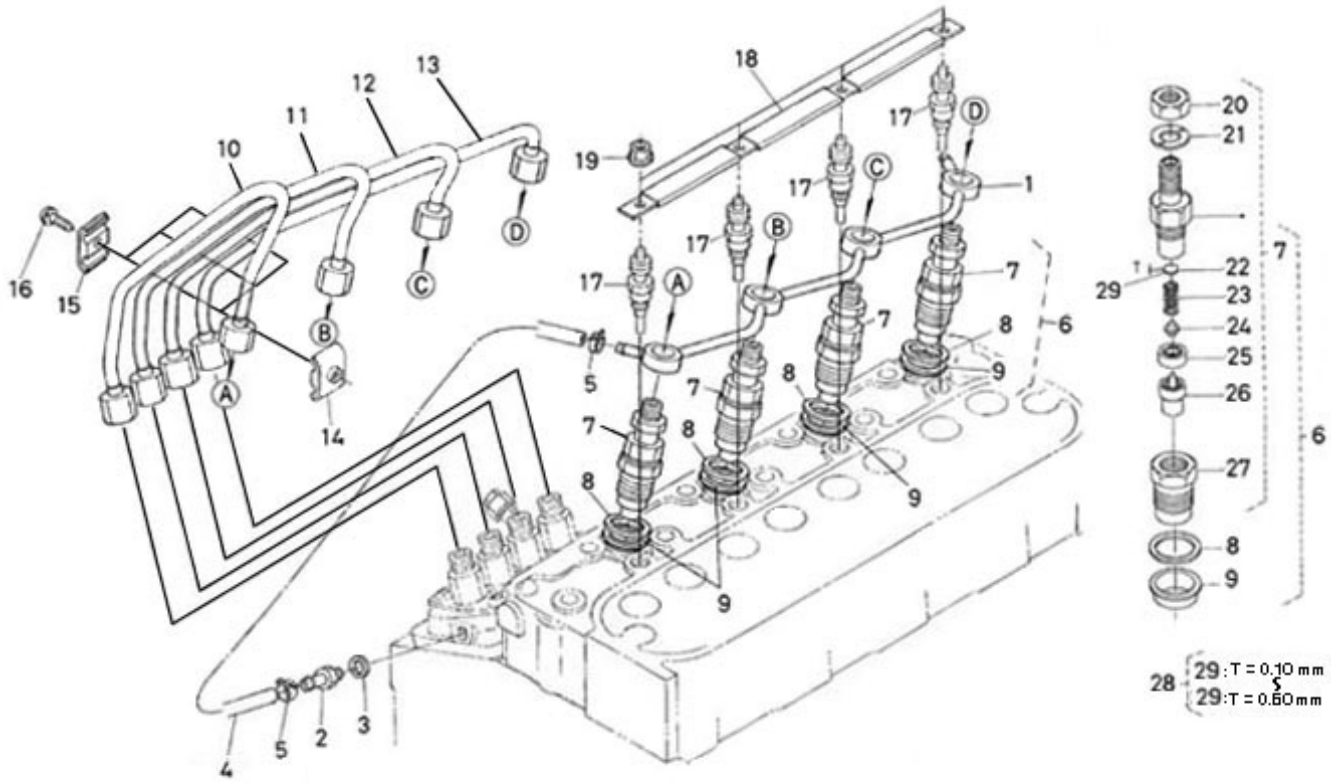
#### 4.150HE STANDARD ENGINE / INJECTION AND FEED PUMP





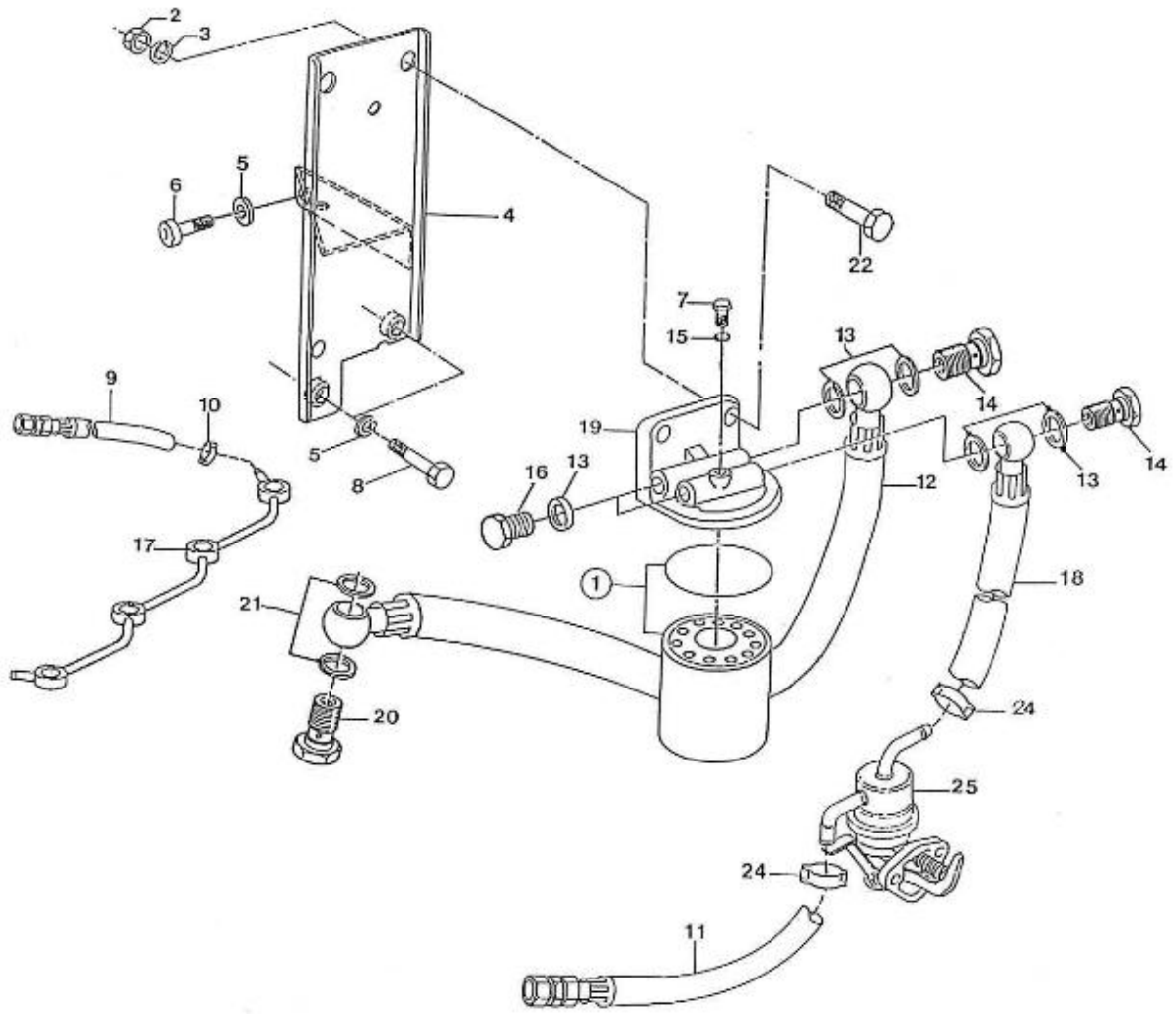
Part number	Item	Désignation article	Quantity
970302828	1	PUMP,INJECTION 4.150 CPL	1
970302916	2	PLUNGER,PUMP	4
970142147	3	VALVE,INJ.PUMP 2. 40HE	4
970142148	4	SPRING,INJ.PUMP	4
970142149	5	GASKET,RING INJ.PUMP 2.40	4
970302917	6	HOLDER,DELIVERY VALVE	4
970142151	7	O-RING,INJ.PUMP	4
970302918	8	FLANGE,SLEEVE	4
970302919	9	PIN,JOINT	4
970142161	10	O-RING,INJ.PUMP	8
970303946	11	SCREW	8
970142165	13	TAPPET,INJ.PUMP CPL.	4
970303947	14	PIN,TAPPET GUIDE	4
970303948	15	PIN,CLAMP	1
970142159	16	SPRING,INJ.PUMP	4
970303949	17	SEAT,SPRING -UPPER-	4
970303950	18	SEAT,SPRING -LOWER-	4
970303951	19	SHIM	1
970303952	20	RACK,CONTROL	1
970303953	21	PLATE	1
970303954	22	SCREW	5
970142168	23	SLEEVE,CONTROL	4
970302829	24	SHIM,INJECTION PUMP 0.200mm	1
970302830	25	SHIM,INJECTION PUMP 0.250mm	2
970142138	26	BOLT,SOCK M 6X 20	3
970142139	27	STUD,INJ.PUMP	3
970142140	28	NUT,CAP	3
970119149	29	WASHER, SPRING D 6	6
970302831	30	PUMP,FUEL FEED CPL.4.150	1
970142512	31	GASKET,FUEL PUMP 2. 40	1
970151133	32	NUT,M 6	2
970119149	33	WASHER, SPRING D 6	2

#### 4.150HE STANDARD ENGINE / INJECTION NOZZLES AND PIPES



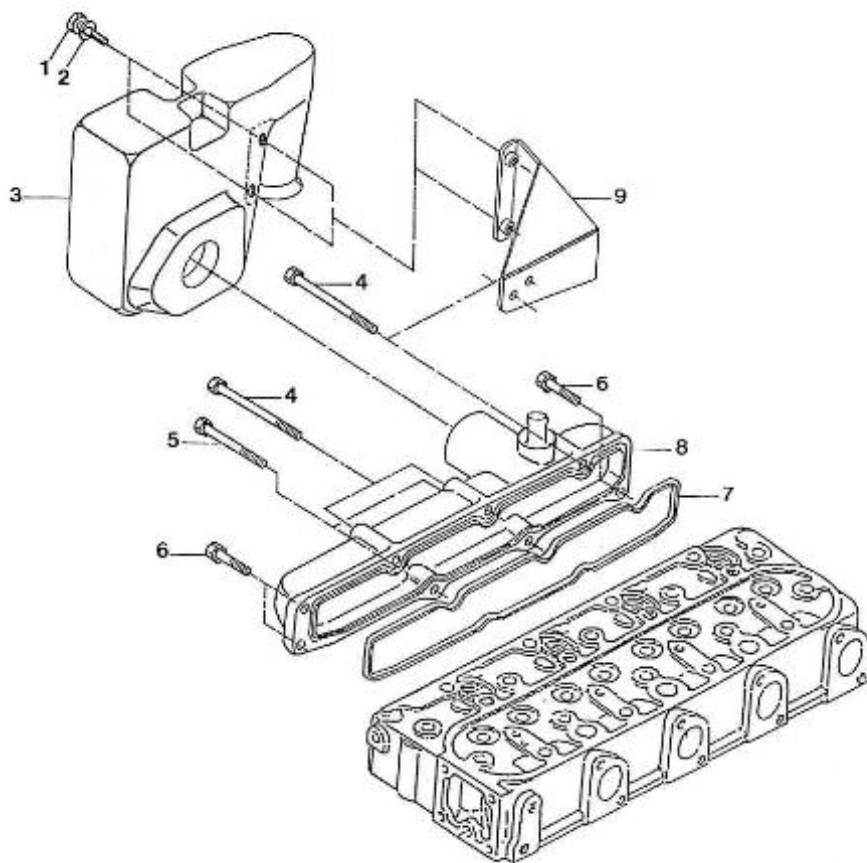
Part number	Item	Désignation article	Quantity
970302813	1	PIPE,FUEL OVERFLOW N01 CPL.	1
970142104	2	NOZZLE, FUEL OVERFLOW LINE	1
970150403	3	RING,SEAL	1
32805001	4	HOSE	1
970310171	5	CLAMP	2
970313508	6	KIT HOLDER,NOZZLE	4
970302816	7	INJECTOR,CPL.4.150	4
970142109	8	GHASKET, RING INJECTORS	4
970307388	9	SEAL,HEAT	4
970302817	10	LINE,FUEL CYL.N01 4.150	1
970302818	11	LINE,FUEL CYL.N02 4.150	1
970302819	12	LINE,FUEL CYL.N03 4.150	1
970302820	13	LINE,FUEL CYL.N04 4.150	1
970142114	14	CLAMP,FUEL LINES 1+2	3
970142115	15	CLAMP,FUEL-LINES 1+2	3
970492118	16	SCREW,M 5X 20 ROUND HEAD	3
970302821	17	GLOWPLUG,4.150	4
970302822	18	LINE,GLOWPLUG CPL.	1
970307593	19	NUT,FLANGE	4
970142175	20	NUT,NOZZLE INJ.	4
970302826	21	WASHER,NOZZLE INJ.	4
970302825	22	SPACER,ADJ.NOZZLE STD. 0.900	4
970142173	23	PIECE,DISTANCE NOZZLE INJ.	4
970142170	24	ROD,PUSH NOZZLE FUEL	4
970142173	25	PIECE,DISTANCE NOZZLE INJ.	4
970307827	26	SHAFT,ROCKER ARM	4
970307595	27	NUT	4
970310389	28	ASSY WASHER,ADJ.	1

#### 4.150HE STANDARD ENGINE / FUEL FILTER



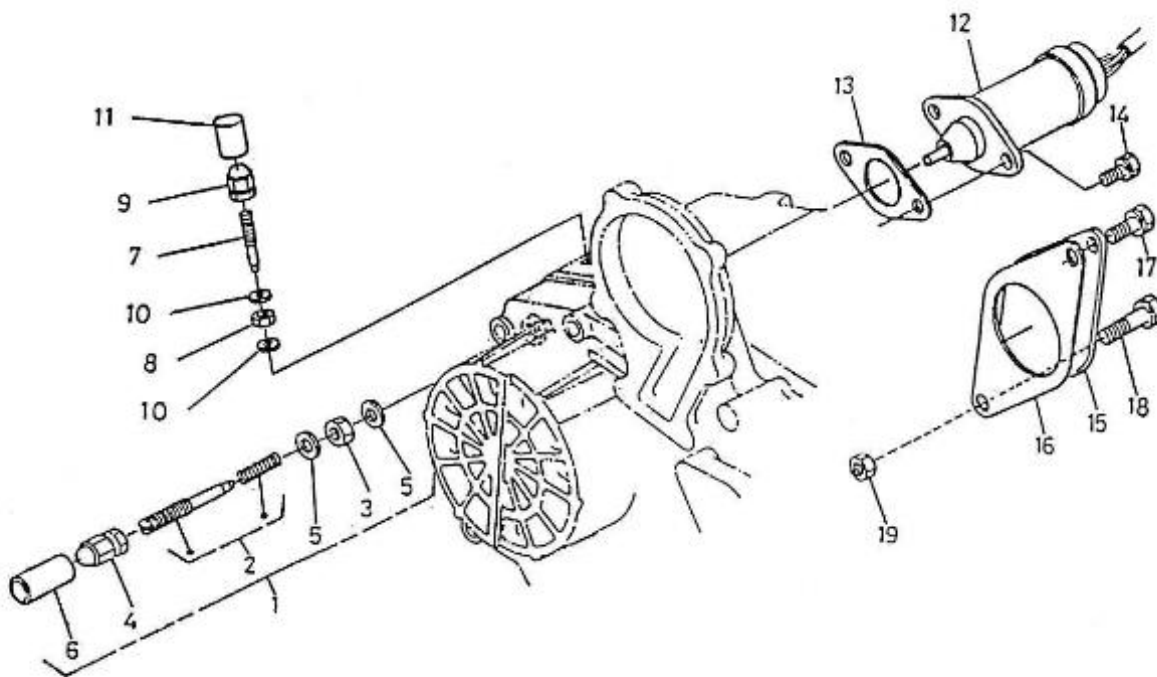
Part number	Item	Désignation article	Quantity
970622350	1	FILTER,FUEL	1
970119143	2	NUT, M10	2
970119136	3	WASHER,SPRING D10	2
970302604	4	SUPPORT,FUEL FILTER S5	1
970119149	5	WASHER, SPRING D 6	3
970604615	6	BOLT,SOCK M 6X 20	1
970832061	7	BOLT	1
970302584	8	BOLT,HEX M 6X 60	2
970300293	9	HOSE,FUEL RETURN CPL.	1
970310171	10	CLAMP	1
970302330	11	HOSE,FUEL SUPPLY CPL.	1
970302586	12	HOSE,FUEL SUPPLY INJ.PUMP CPL.	1
970300306	13	GASKET,RING D14	6
970432515	14	BOLT,BANJO M14X1,5	2
970300288	15	GASKET,M8	1
970875506	16	PLUG	2
970302813	17	PIPE,FUEL OVERFLOW N01 CPL.	1
970302587	18	HOSE,FUEL SUPPLY FILTER CPL. (	1
970302494	19	SUPPORT,FUEL FILTER ELEMENT H-	1
970304066	20	BOLT,BANJO	1
970300430	21	GASKET,RING D10	2
970635508	22	BOLT,HEX M10X 25	2
970302585	24	CLAMP,TWO-EAR 11-13	2
970302831	25	PUMP,FUEL FEED CPL.4.150	1

#### 4.150HE STANDARD ENGINE / AIR FILTER



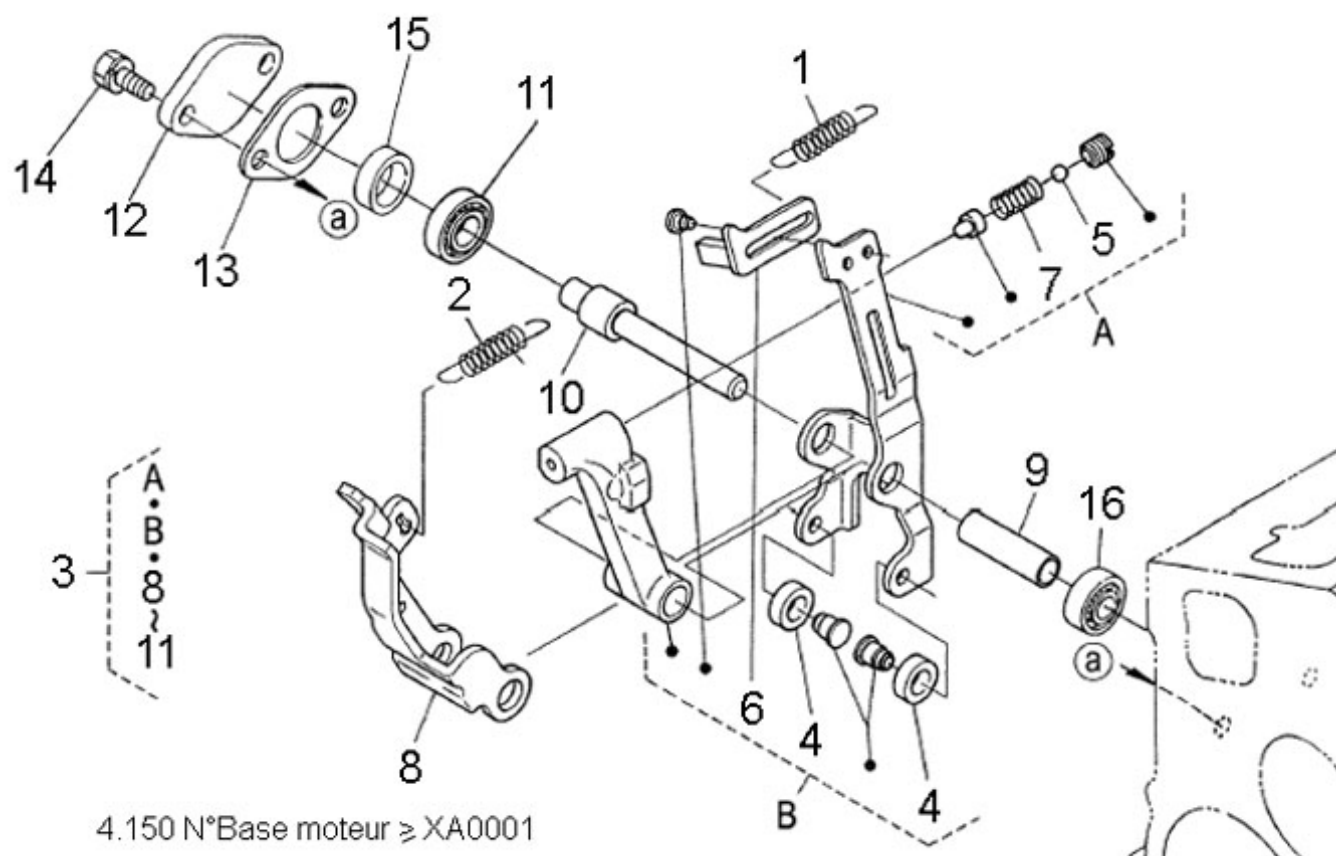
Part number	Item	Désignation article	Quantity
970304025	1	BOLT,HEXM 6X 10 A2	2
970304026	2	WASHER,PLAIN D 6 A2	2
970302624	3	FILTER,AIR (S5)	1
970302737	4	BOLT,M 6X 50	3
970302751	5	BOLT,M 6X 30	2
970490119	6	BOLT,M 6X 18	2
970302773	7	GASKET,INTAKE MANIFOLD 4.150	1
970302772	8	MANIFOLD,INTAKE 4.150	1
970302640	9	SUPPORT,AIR FILTER S5	1

#### 4.150HE STANDARD ENGINE / REGULATOR ADJUSTMENT



Part number	Item	Désignation article	Quantity
970302865	1	BOLT,ADJ.IDLE CPL.4.150	1
970314234	2	ASSY BOLT,ADJUSTMENT	1
970140402	3	NUT	1
970140404	4	NUT	1
970150403	5	RING,SEAL	2
970302411	6	CAP,NUT	1
970140402	8	NUT	1
970140404	9	NUT	1
970150403	10	RING,SEAL	2
970302411	11	CAP,NUT	1
970302869	12	SOLENOID,STOP 4.150	1
970302870	13	GASKET,SOLENOID	1
970490508	14	BOLT,M 6X 14	2
970302871	15	COVER,HYD.PUMP	1
970302872	16	GASKET	1
970302873	17	BOLT,M 8X 20	1
970302037	18	BOLT,M 8X 32	1
970490903	19	NUT,M 8	1

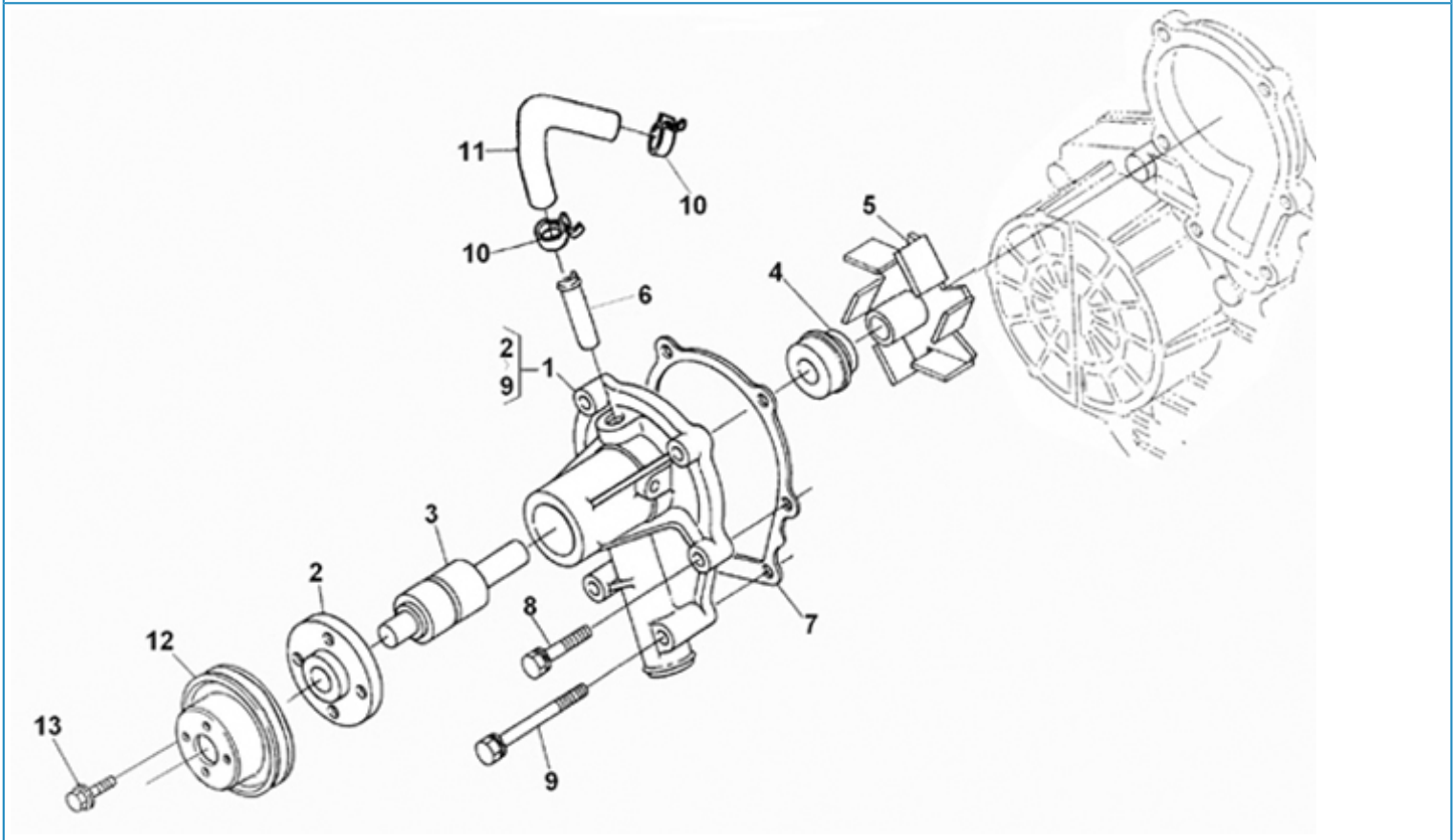
#### 4.150HE STANDARD ENGINE / SPEED REGULATOR





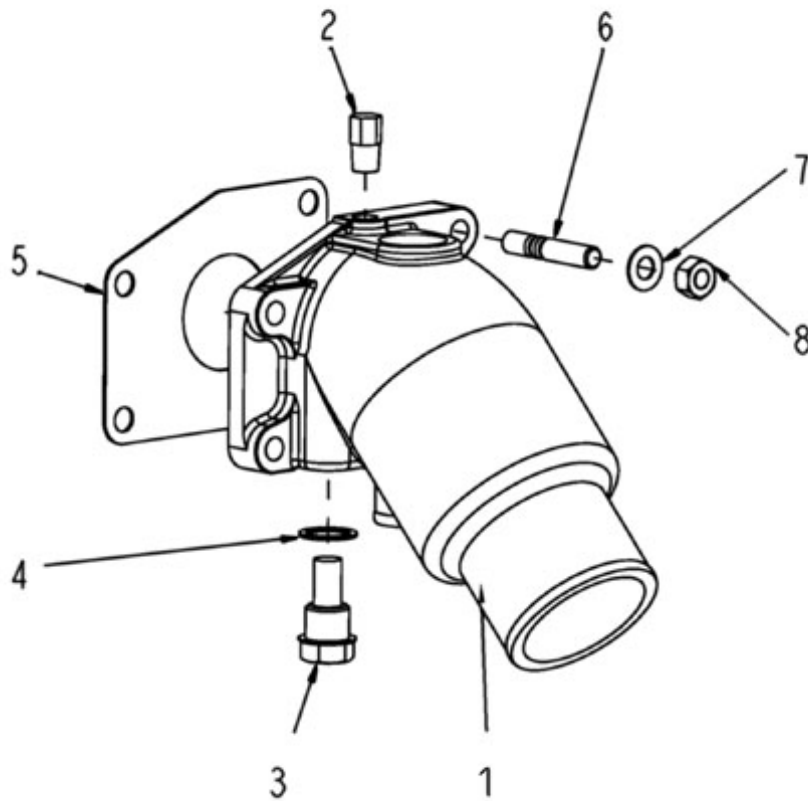
Part number	Item	Désignation article	Quantity
970313413	1	SPRING	1
970302874	1	SPRING,START LEVER FORK 1	1
970302875	2	SPRING,GOVERNOR	1
970302877	3	LEVER,FORK CPL.N01	1
970313471	3	ASSY LEVER,FORK	1
970302877	4	LEVER,FORK CPL.N01	1
970310328	4	ROLLER	2
970302878	5	LEVER,FORK 2	1
970492130	5	BEARING,BALL FUEL CAMSHAFT	2
970310366	6	LEVER,THRUST	1
970302879	6	SHAFT,FORK LEVER	1
970313477	7	SPRING	1
970302880	7	WASHER,PLAIN	1
970313442	8	LEVER,FORK	1
970302882	9	BEARING,CASE	1
970313443	9	SHAFT,FORK LEVER	1
970313444	10	SHAFT,FORK LEVER	1
970302883	10	CIR-CLIP,EXTERNAL	1
970302884	11	COVER,FORK LEVER SHAFT	1
970302882	11	BEARING,CASE	1
970302885	12	GASKET	1
970302884	12	COVER,FORK LEVER SHAFT	1
970490508	13	BOLT,M 6X 14	2
970310367	13	GASKET	1
970310351	14	BOLT	2
970302886	14	COLLAR,1	1
970140123	14	BOLT ,M 6X12	2
970302887	15	BEARING,CASE	1
970302886	15	COLLAR,1	1
970302887	16	BEARING,CASE	1

#### 4.150HE STANDARD ENGINE / FRESH WATER PUMP



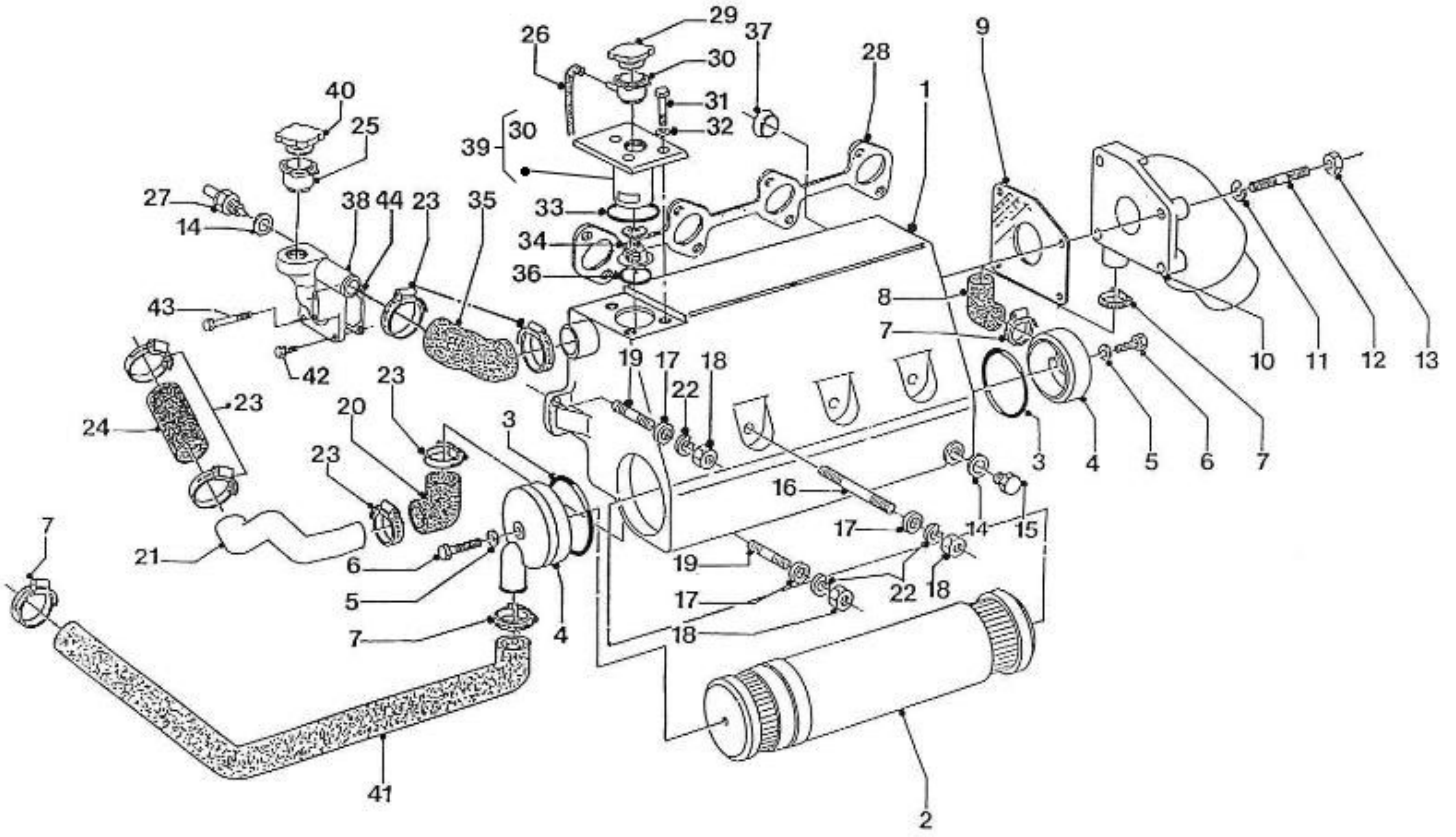
Part number	Item	Désignation article	Quantity
970302745	1	PUMP,F/WATER CPL.4.150	1
970313400	1	ASSY PUMP,WATER	1
970302746	2	BEARING,SHAFT W/PUMP	1
970302747	3	SEAL,MECHANICAL F/W.PUMP	1
970302748	4	IMPELLER,F/WATER PUMP 4.150	1
970307629	5	PIPE,WATER RETURN	1
970302750	6	FLANGE,W/PUMP	1
970302751	7	BOLT,M 6X 30	4
970302752	8	BOLT,M 6X 80	2
970302753	9	GASKET,F/WATER PUMP 4.150	1
970313392	9	GASKET,WATER PUMP	1
970307103	10	BAND,PIPE	2
970307071	11	PIPE,WATER RETURN	1
970307124	12	PULLEY,FAN	1

#### 4.150HE STANDARD ENGINE / EXHAUST ELBOW



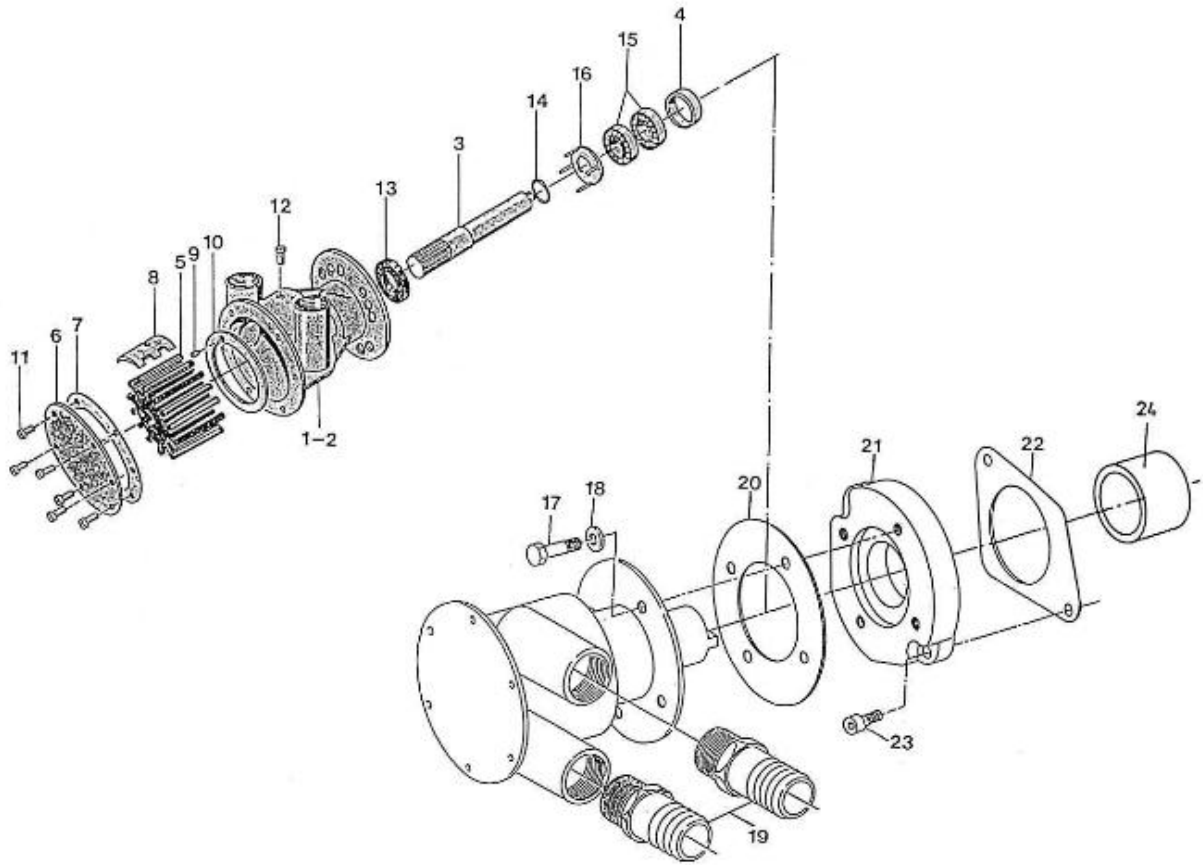
Part number	Item	Désignation article	Quantity
970301706APR	1	MIXER	1
970307265	2	PLUG,HEX 1/8	1
970494635	3	ANODE,ZINC CPL M16X1,5	1
970300199	4	GASKET,RING D16	1
970301710	5	GASKET,MIXER 4.190	1
970300374	6	STUD,M 8X 30	3
970307249	6	STUD	1
970119139	7	WASHER,CORRUGATED D8	4
970027322	8	NUT,M 8	4

#### 4.150HE STANDARD ENGINE / HEAT EXCHANGER



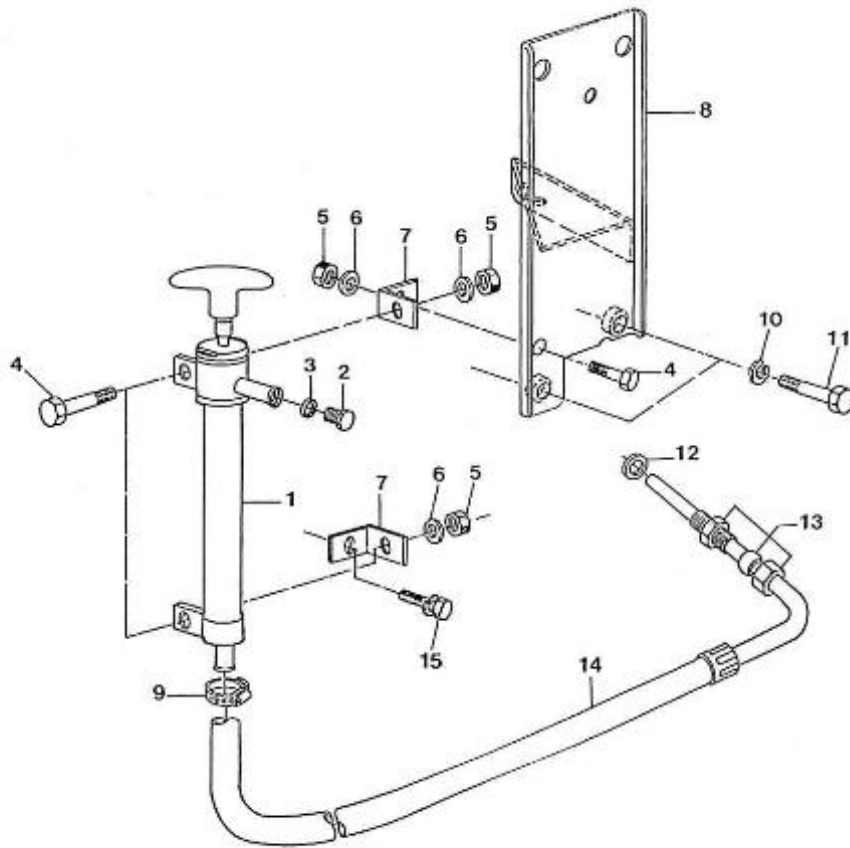
Part number	Item	Désignation article	Quantity
970302601	1	BODY	1
970310152	2	TUBE STACK	1
KSAV02	3	HEAT EXCHANGER GASKET KIT	1
970307714	4	COVER	2
970300288	5	GASKET,M8	2
970301263	6	BOLT,M 8X 45 -A2-	2
970604526	7	CLAMP,HOSE 22-32	4
970301713	8	HOSE,ELBOW COVER HEATEX.4.190	1
970301710	9	GASKET,MIXER 4.190	1
970301706APR	10	MIXER	1
970119138	11	WASHER,SPRING D 8	4
970300374	12	STUD,M 8X 30	4
970027322	13	NUT,M 8	4
970300306	14	GASKET,RING D14	2
970875506	15	PLUG	1
970302611	16	STUD,M 7X151	3
970302538	17	WASHER,PLAIN D 7	8
970301496	18	NUT,M 7	8
970302915	19	STUD	5
970302630	20	HOSE	1
970302537	22	WASHER,SPRING D 7	8
970300922	23	CLAMP,HOSE 26-38	6
970301527	24	PIPE,WATER 4.150 HE	1
970301734	25	FILLING,NECK CPL.4.190	1
970300077	26	HOSE,D 8 L= 450	1
970304054	27	TEMPERATURE SWITCH 1/8 1P 97	1
970302777	28	GASKET,EXHAUST MANIFOLD 4.150	1
970604614	29	CAP,FILLING 0, 7 DOUBLE SEAL	1
970300834	30	FILLING,NECK WATER	1
970119141	31	BOLT,HEX M8X 20	3
970119139	32	WASHER,CORRUGATED D8	3
970302608	33	O-RING	1
970301412	34	THERMOSTAT,82X	1
970301714	35	HOSE,D32 COVER THERMO.4.190	1
970302609	36	O-RING	1
970494517	37	CAP,FREEZE	3
970302628	38	FLANGE,WATER S5	1
970311173	39	HOUSING, THERMOSTAT	1
970302625	41	HOSE, W.PUMP/COVER HEATECH. (S	1
970491117	42	BOLT,M 6X 16	3
970316046	43	SCREW	1
970307104	44	GASKET,W/FLANGE NA	1

#### 4.150HE 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
970439910	17	BOLT,HEX M 6X 16	4
970609602	18	WASHER,CORRUGATED D 6	4
970604515	19	CONNECTION,HOSE HBW-20	2
970614511	20	GASKET,WATER PUMP F5B-9	1
970302606	21	FLANGE,WATER PUMP (S5)	1
970302610	22	GASKET,FLANGE W/PUMP (S5)	1
970604615	23	BOLT,SOCK M 6X 20	2
970307007	24	BEARING	1

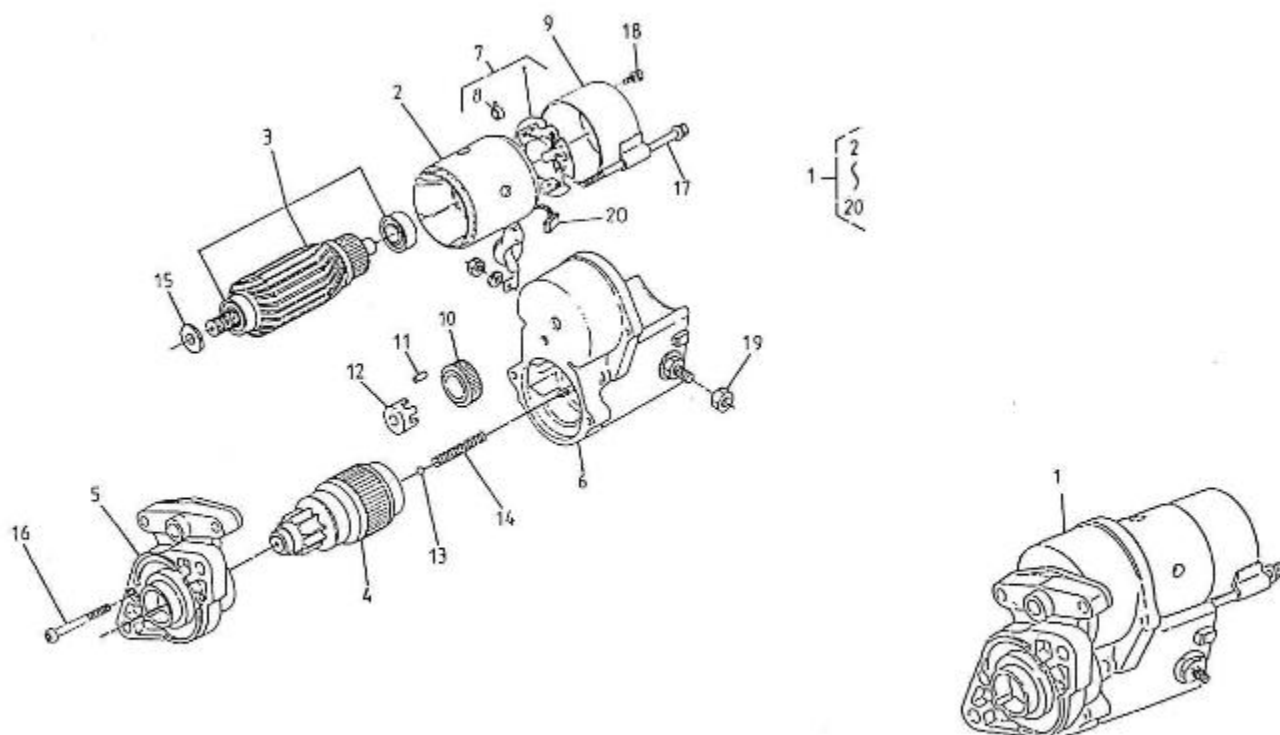
#### 4.150HE STANDARD ENGINE / OIL DRAIN PUMP



Part number	Item	Désignation article	Quantity
970439302	1	PUMP,OIL EXTRACTION	1
970832061	2	BOLT	1
970300288	3	GASKET,M8	1
970439910	4	BOLT,HEX M 6X 16	3
970635460	5	NUT,M 6	3
970119149	6	WASHER, SPRING D 6	3
970302642	7	SUPPORT,OIL EXTRACTION PUMP S5	2
970302604	8	SUPPORT,FUEL FILTER S5	1
970439306	9	CLAMP	1
970119149	10	WASHER, SPRING D 6	2
970302584	11	BOLT,HEX M 6X 60	2
970300199	12	GASKET,RING D16	1
970304001	14	HOSE,OIL EXTRACTION 4.150 CPL.	1
970302736	15	BOLT,M 6X 45	1

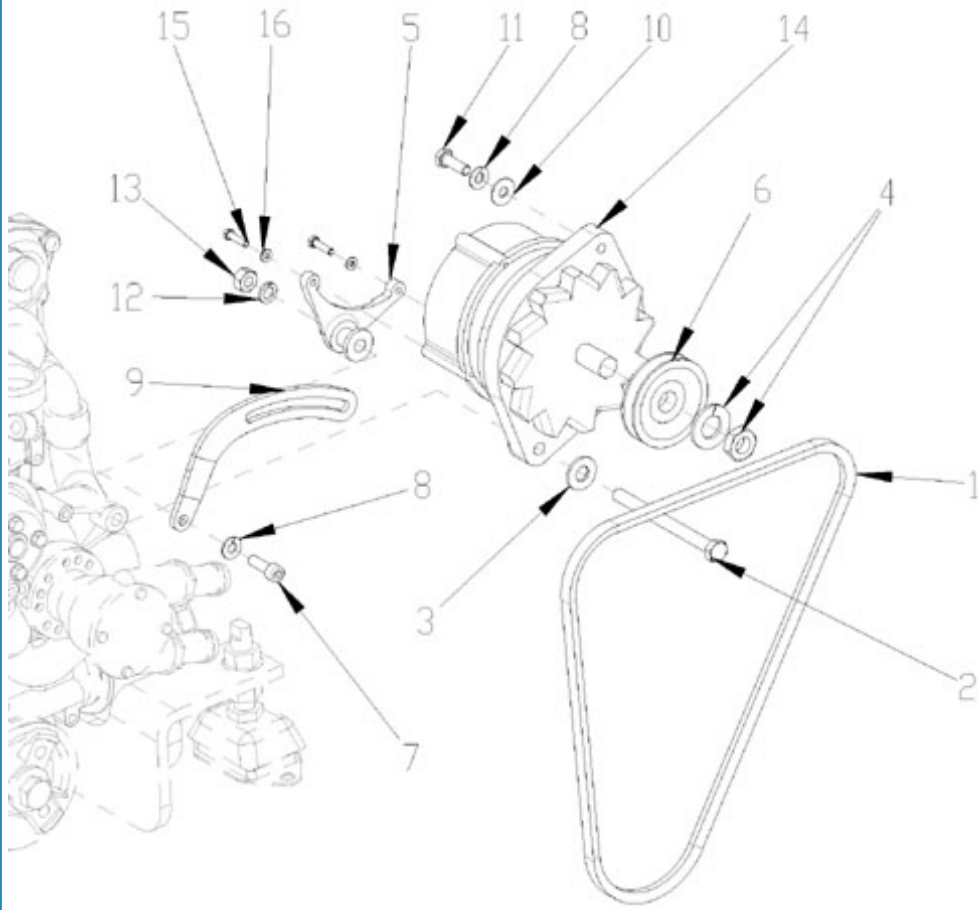


#### 4.150HE STANDARD ENGINE / STATER - DETAILS



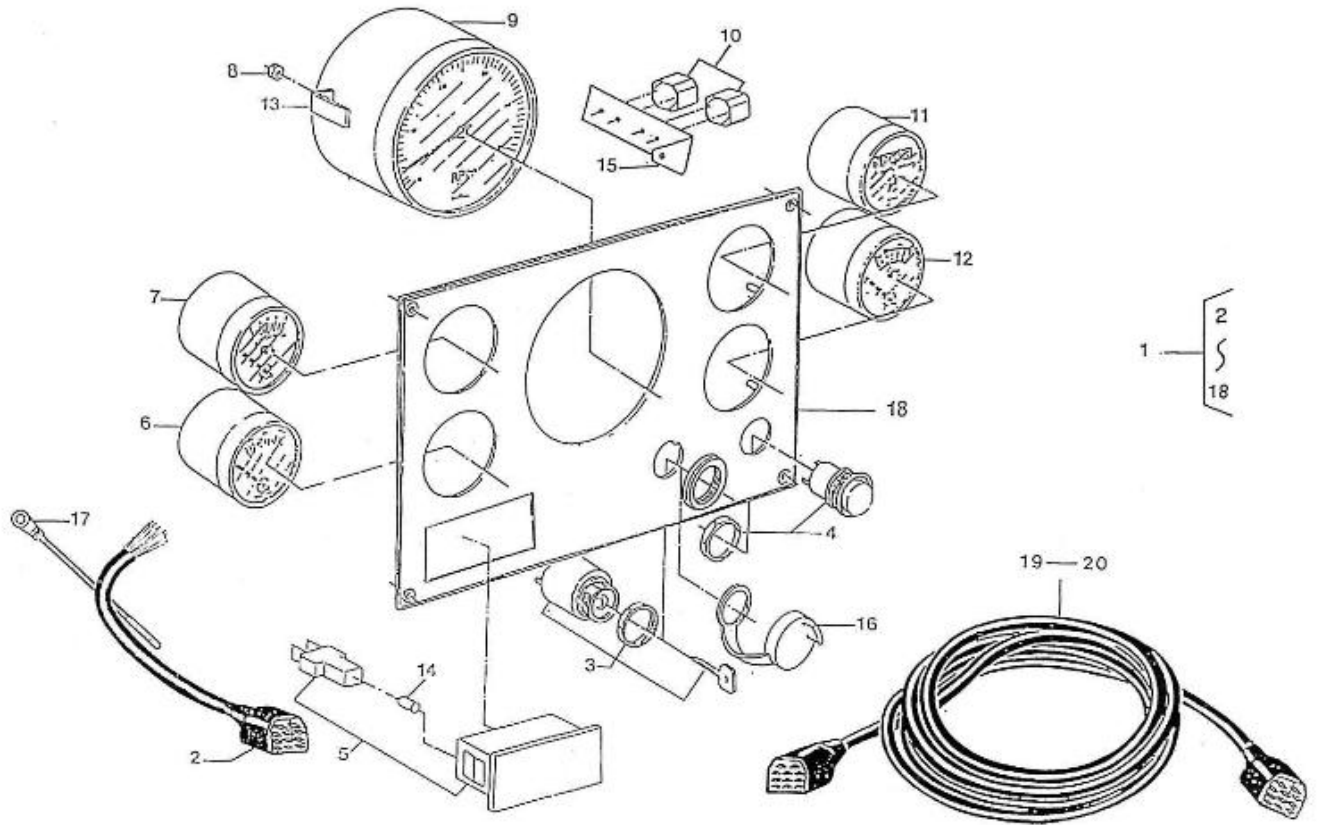
Part number	Item	Désignation article	Quantity
970517303	1	STARTER,MOTOR 12V 1,0KW 1P	1
970517302	2	STATOR,4.110	1
970517304	3	ROTOR,STARTER 4.110	1
970517305	4	PINION,STARTER	1
970517307	5	FRAME,DRIVE END-STARTER MOTOR	1
970517306	6	HOLDER,MAGNET SWITCH	1
970517317	7	HOLDER,BRUSH	1
970517318	8	SPRING,BRUSH	4
970517312	9	FRAME,END STARTER MOTOR 4.110H	1
970517313	10	GEAR,2 STARTER MOTOR 4.110	1
970517314	11	ROLLER,STARTER MOTOR 4.110	5
970517315	12	BUSHING,PLASTIC (STARTER MOTOR	1
970517316	13	BHEARING,BALL STARTER MOTOR	1
970517319	14	SPRING,STARTER MOTOR 4.110	1
970517320	15	WASHER,FELT	1
970517321	16	SCREW	2
970303964	17	BOLT	2
970517323	18	BOLT	2
970517324	19	NUT,STATER 4.110	1
970303957	20	BRUSH	2

#### 4.150HE STANDARD ENGINE / ALTERNATOR



Part number	Item	Désignation article	Quantity
970307539	1	SUPPORT,ALTERNATOR	1
48108117	1	V-BELT	1
39160668	2	BOLT	1
970307495	2	BOLT	1
970039794	3	WASHER	1
970119143	3	NUT, M10	1
970307532	4	NUT	1
970307522	5	ALTERNATOR,14V-60A	1
48201173	5	ALTERNATOR BRACKET	1
970307194	6	PULLEY	1
95312304	6	PULLEY	1
970307533	7	REGULATOR,ALTERNATOR	1
970498003	7	BOLT,SOCK M 8X 25	1
970119138	8	WASHER,SPRING D 8	2
970637399	8	V-BELT	1
95203077	9	TIGHTENER	1
970307437	9	TIGHTENER,V-BELT	1
970304050	10	WASHER	1
970024016	11	BOLT,HEX M 8X 40	1
970409603	11	BOLT,HEX M 8X 25	1
970119136	12	WASHER,SPRING D10	1
970119138	12	WASHER,SPRING D 8	1
970027322	13	NUT,M 8	1
970119143	13	NUT, M10	1
970644115	14	BOLT,HEX M10X 90	1
970119143	15	NUT, M10	1
970119136	16	WASHER,SPRING D10	1

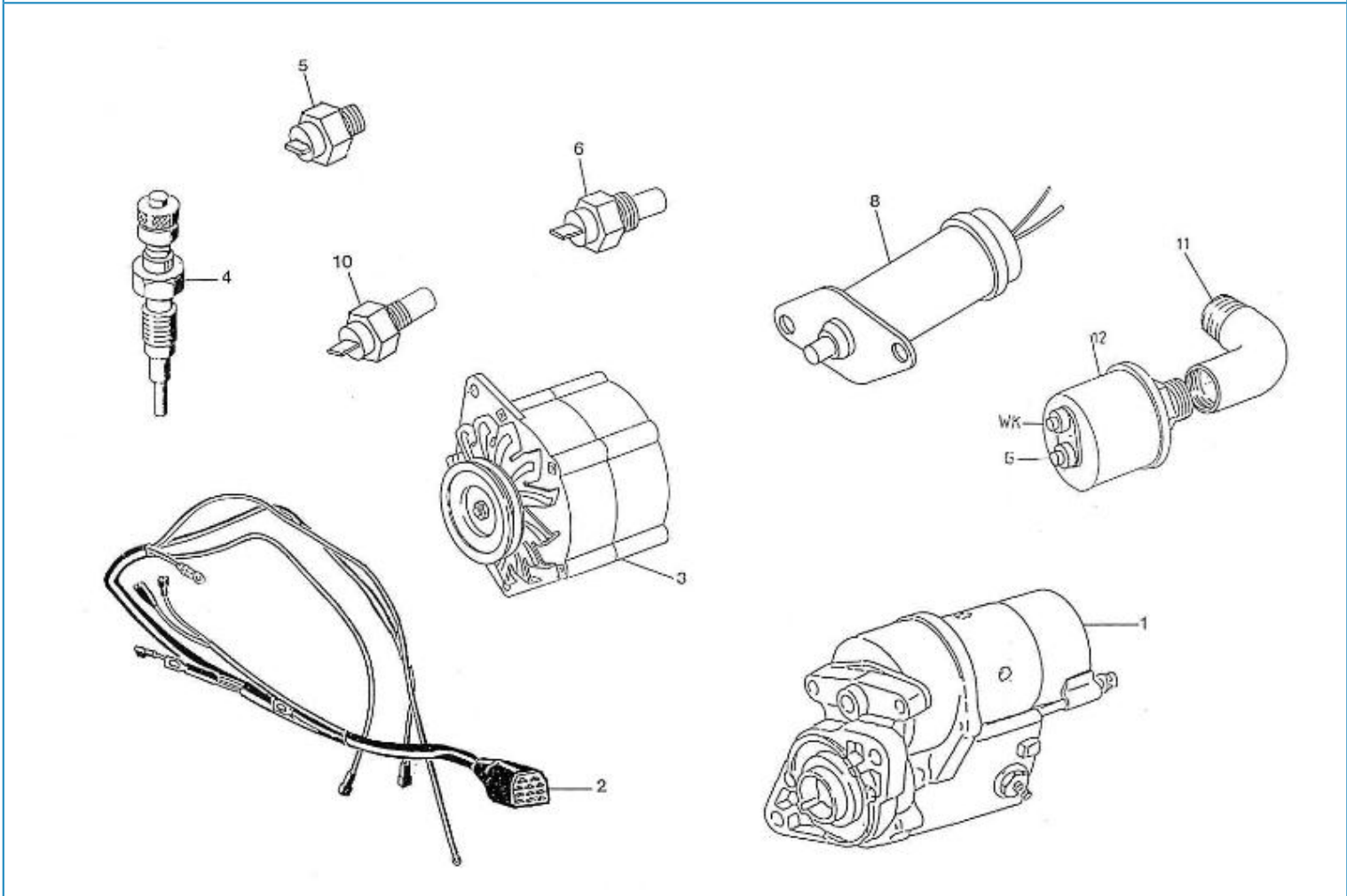
#### 4.150HE STANDARD ENGINE / INSTRUMENT PANELS



PANEL "C" (Optional equipment)

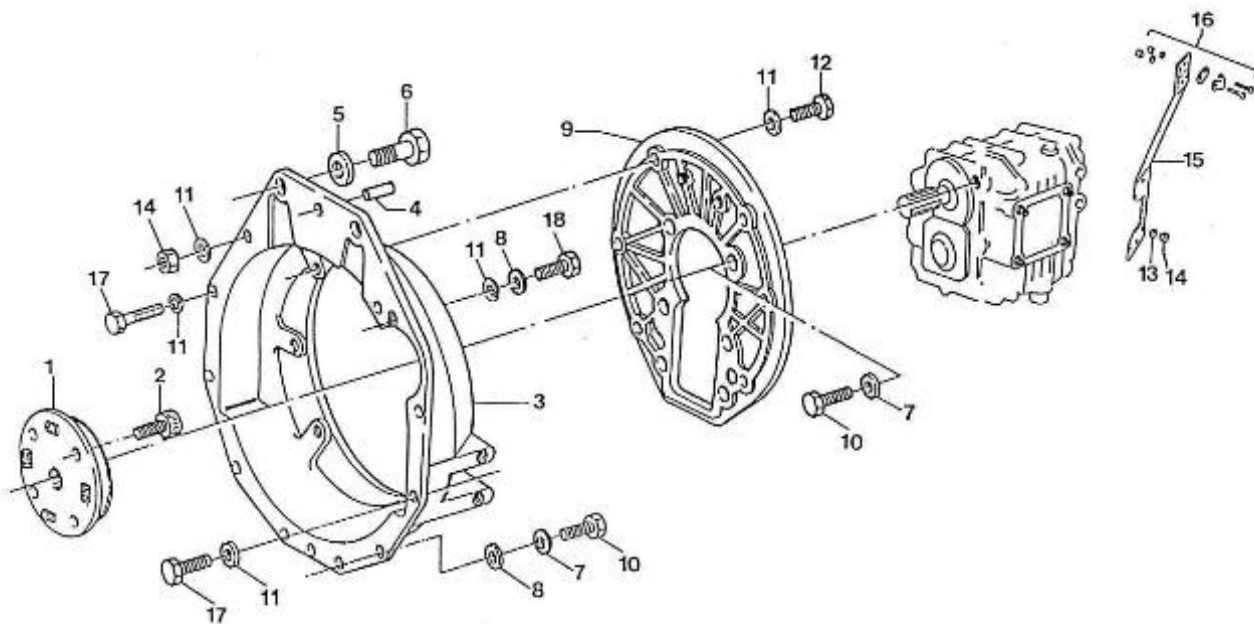
Part number	Item	Désignation article	Quantity
970301662	2	GAUGE,VDO,TEMP/VOLT 40-120,8-1	1
970304004	2	ENS. CABLAGE TABLEAU 5 INSTR	1
970302214	2	PLATE,PANEL 1 INSTRUMENT	1
970302667	3	SWITCH,BOSCH STARTER + GLOWING	1
970300920	4	CLAMP,INSTRUMENTS	8
970302662	4	WIRING,PANEL 1 INSTR. (11P	1
970300967	4	BUTTON,PUSH	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
970300920	7	CLAMP,INSTRUMENTS	4
970850705	7	OIL PRESSURE GAUGE 5B	1
970301191	8	NUT,M 4 A2	12
970856011	8	BULB 12V-2W	2
970302684	8	BUZZER,SONITRON SMA 24A P17.05	2
970302667	9	SWITCH,BOSCH STARTER + GLOWING	1
970302667	10	SWITCH,BOSCH STARTER + GLOWING	1
970300967	10	BUTTON,PUSH	1
970302684	10	BUZZER,SONITRON SMA 24A P17.05	2
970300967	11	BUTTON,PUSH	1
970856005	11	INDICATORI OTTICI A 4 SPIE	1
970856005	12	INDICATORI OTTICI A 4 SPIE	1
970850801	12	VOLTMETER	1
970856011	12	BULB 12V-2W	4
970300920	13	CLAMP,INSTRUMENTS	12
970304021	13	COVER	1
970302663	13	WIRING,PANEL 2 INSTR. ADDITION	1
970304021	14	COVER	1
970304019	14	CABLEBINDER,PLASTIC 4.8X195	1
970856011	14	BULB 12V-2W	9
970856011	15	BULB 12V-2W	5
970304019	15	CABLEBINDER,PLASTIC 4.8X195	1
970302669	16	PLATE,PANEL 2 INSTR W/SW GLOW/	1
970301191	16	NUT,M 4 A2	4
970304021	16	COVER	1
970302665	17	WIRING,INTERMEDIATE 4MTR 11POS	1
970304019	17	CABLEBINDER,PLASTIC 4.8X195	1
970302666	18	WIRING,INTERMEDIATE 8MTR 11POS	1
970302665	18	WIRING,INTERMEDIATE 4MTR 11POS	1
970302666	19	WIRING,INTERMEDIATE 8MTR 11POS	1
970302665	19	WIRING,INTERMEDIATE 4MTR 11POS	1
970302666	20	WIRING,INTERMEDIATE 8MTR 11POS	1

#### 4.150HE STANDARD ENGINE / ELECTRICAL EQUIPMENTS



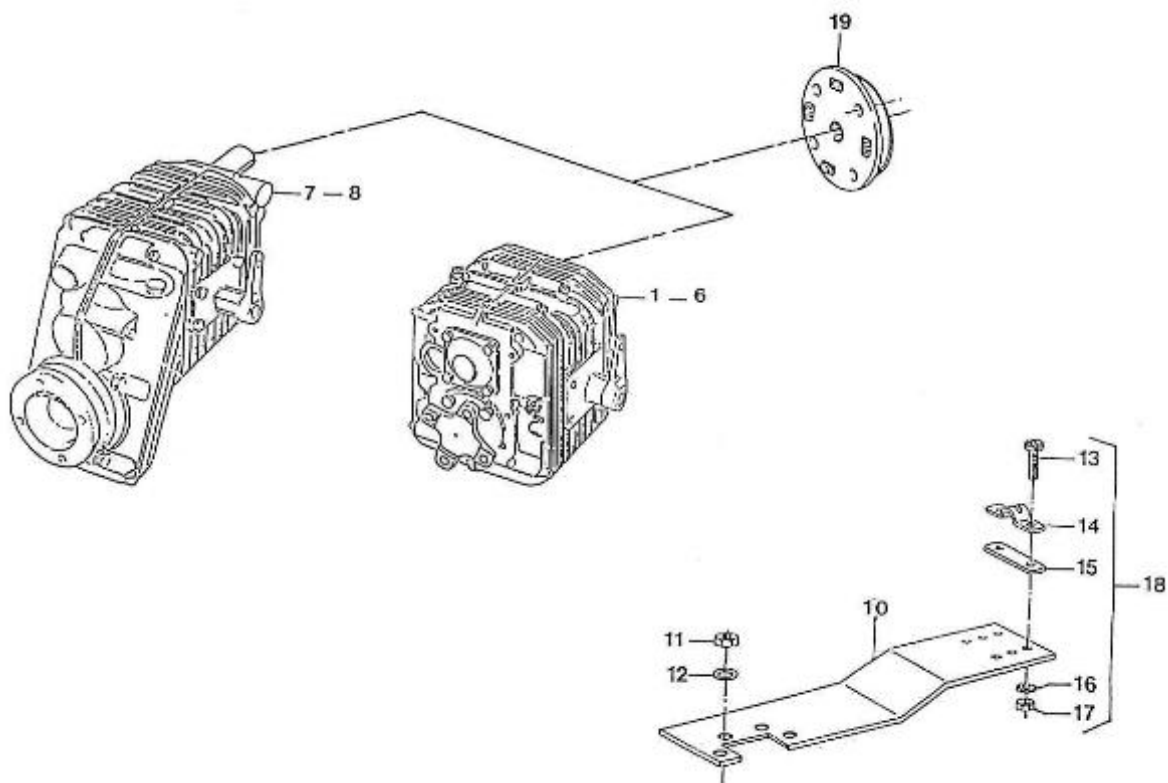
Part number	Item	Désignation article	Quantity
970517303	1	STARTER,MOTOR 12V 1,0KW 1P	1
970302661D	2	WIRING	1
970302821	4	GLOWPLUG,4.150	1
970851700	5	SWITCH,OIL	1
970851602	6	WATER TEMPERATURE SENDER	1
970302869	8	SOLENOID,STOP 4.150	1
970304054	10	TEMPERATURE SWITCH 1/8 1P 97	1
970493207	11	ELBOW,1/8X10X1,5MF	1
48201143	12	OIL PRESSURE SENDER	1

#### 4.150HE STANDARD ENGINE / GEAR BOX FLANGE



Part number	Item	Désignation article	Quantity
970776350	1	DAMPERPLATE	1
970119147	2	BOLT, SOCK M 6X12	8
970301400	3	HOUSING, FLYWHEEL (S5 H/HE)	1
970304063	4	PIN	1
970119137	5	WASHER, CORRUGATED D10	2
970304013	6	BOLT, HEX M10X1.25X 35	2
970119139	7	WASHER, CORRUGATED D8	12
970119138	8	WASHER, SPRING D 8	1
970301709	9	PLATE, ADAPTOR HBW50-100-150	1
970119141	10	BOLT, HEX M8X 20	6
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
970498003	17	BOLT, SOCK M 8X 25	2
970635917	18	BOLT, SOCK M 8X 40	1

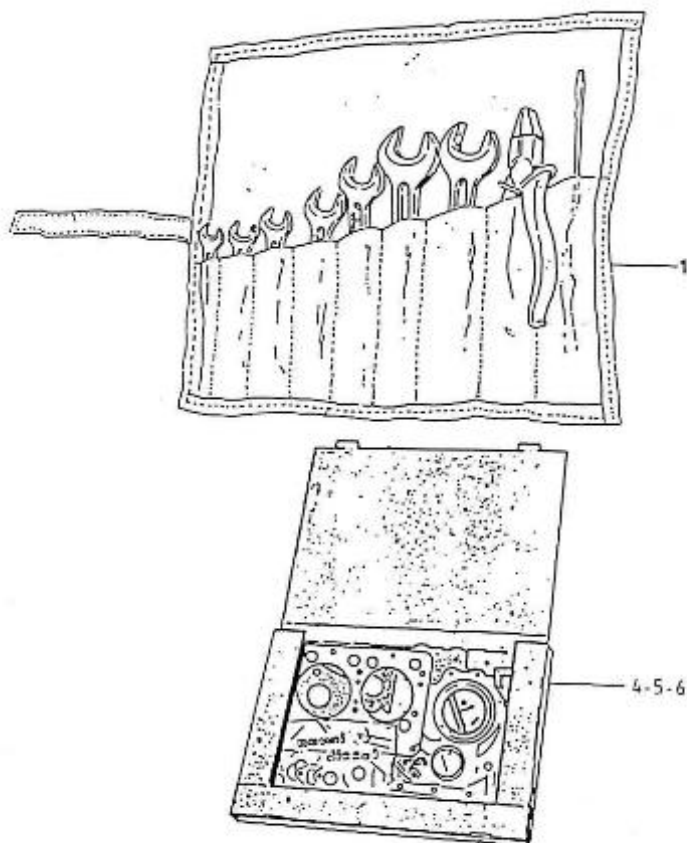
#### 4.150HE STANDARD ENGINE / GEAR BOX



Part number	Item	Désignation article	Quantity
970776012	2	GEARBOX,HBW100 -2,72R	1
970776330	3	GEARBOX ZF15 M 1.88 S.FL.	1
970307530	4	GEARBOX ZF12 M 2.63	1
970776343	5	ZF15 MA 1.88R	1
970776342	6	GEAR BOX ZF15 MA 2.63	1
970776340	7	GEARBOX ZF 15 MIV 2.13R	1
970776335	8	GEARBOX	1
970300373	10	SUPPORT,CONTROL HBW	1
970027322	11	NUT,M 8	2
970119139	12	WASHER,CORRUGATED D8	2
970300317	13	BOLT,HEX M 5X 16	2
QCC33010TF	14	THREADING COLLAR JACKET 33C	1
QCC33014TF	15	COUNTER PLATE 33/43C	1
970300318	16	WASHER,SPRING D 5	2
970609904	17	NUT,M 5	2
970835020	18	CLAMP	1
970776350	19	DAMPERPLATE	1

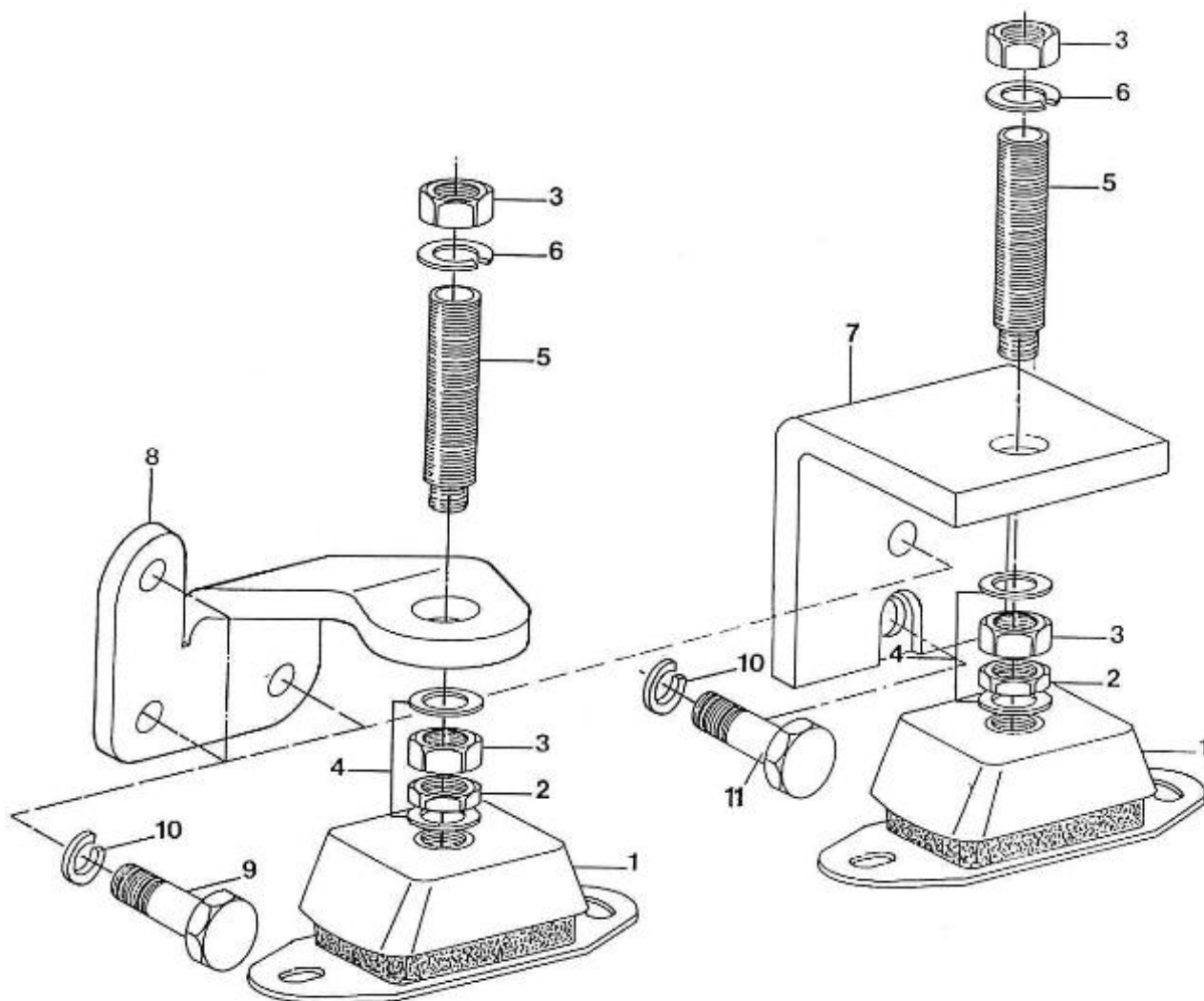


#### 4.150HE STANDARD ENGINE / TOOLS - GASKETS KIT



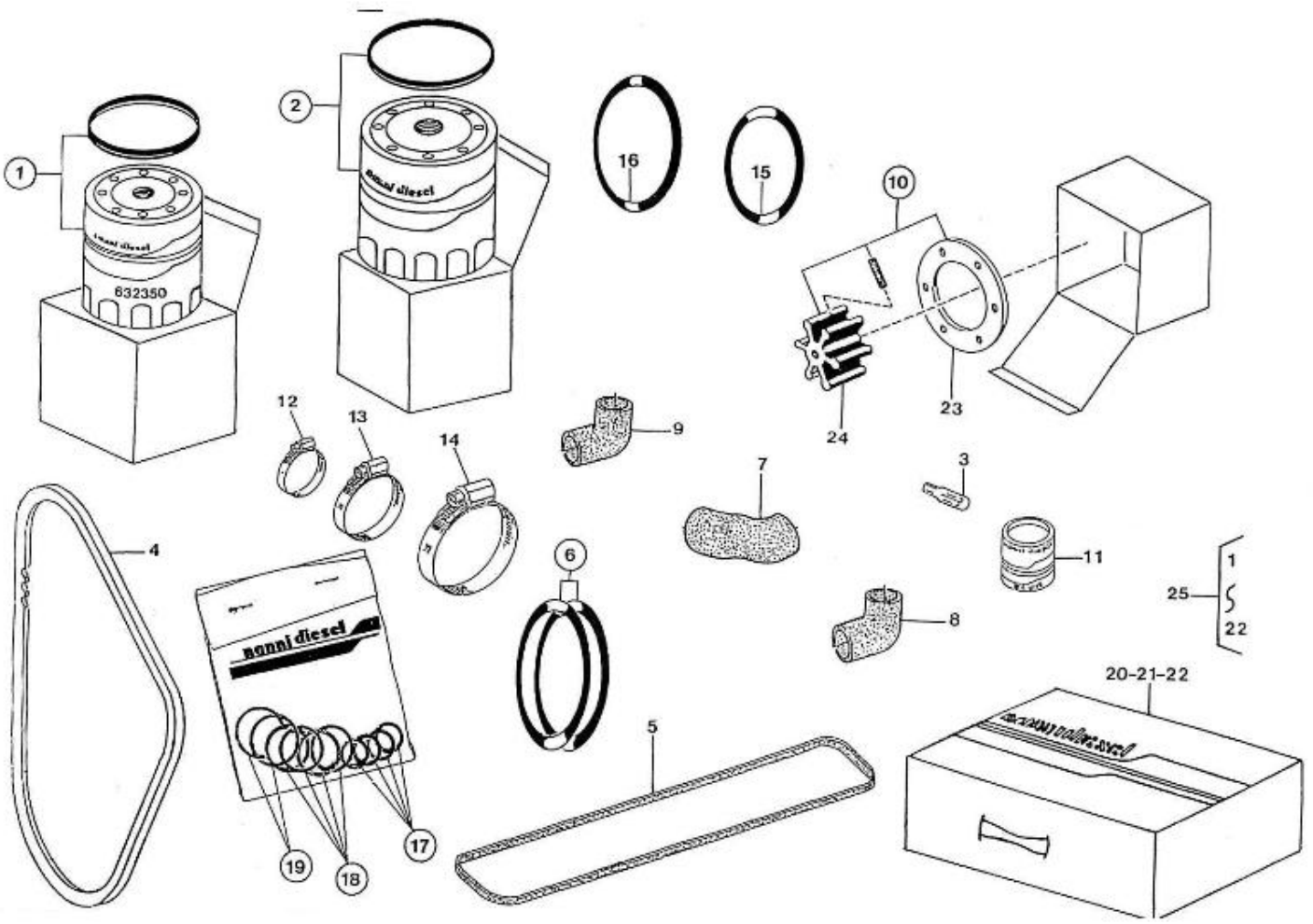
Part number	Item	Désignation article	Quantity
970609901	1	KIT,TOOLS	1
970307172	4	SET OF GASKETS	1
970307173	5	KIT GASKET (L) NA	1
970307175	6	SET OF GASKETS	1

#### 4.150HE STANDARD ENGINE / SUPPORT AND MOUNTING



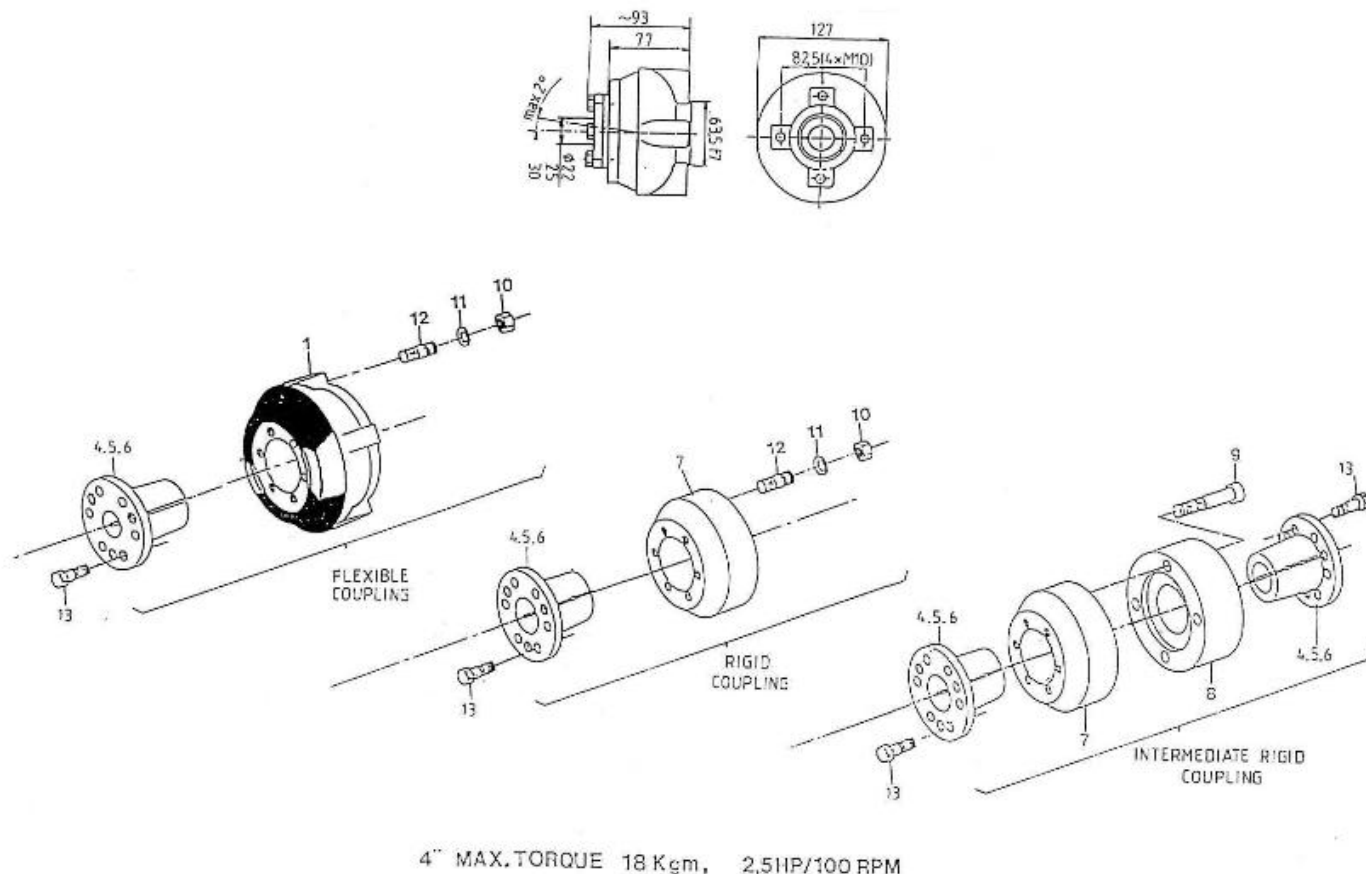
Part number	Item	Désignation article	Quantity
48190022	1	RUBBER MOUNT SMALL 45SH M16	4
970302270	2	NUT,M16X1,5 LOW	4
970302271	3	NUT,M16X1,5	8
970649108	4	WASHER,PLAIN D16	8
970302234	5	ROD,THREADED M16X 95 - M12	4
970649109	6	WASHER,SPRING D16	4
970301419	7	SUPPORT,MOUNT REAR	2
970301418	8	SUPPORT,MOUNT FRONT (S5)	2
970499051	9	BOLT,HEX M10X1,25X 30	8
970119136	10	WASHER,SPRING D10	10
970300044	11	BOLT,HEX M10X1,25X 25	2

# 4.150HE STANDARD ENGINE / MAINTENANCE KIT



Part number	Item	Désignation article	Quantity
970622350	1	FILTER,FUEL	1
970302742	2	FILTER,ELEMENT OIL 4.150 3.110	1
970856011	3	BULB 12V-2W	1
970637399	4	V-BELT	1
970302765	5	GASKET,COVER CYL:HEAD 4.150	1
970301719	6	O-RING,68,00X4,00	2
970301714	7	HOSE,D32 COVER THERMO.4.190	1
970301713	8	HOSE,ELBOW COVER HEATEX.4.190	1
970302630	9	HOSE	1
970604591	10	SET,IMPELLER W/PUMP 4.110-190-	1
970301521	11	PAINT,NANNI BLUE 125CC	1
970439306	12	CLAMP	2
970300922	13	CLAMP,HOSE 26-38	2
970604533	14	CLAMP,HOSE 32-44	1
970302609	15	O-RING	1
970302608	16	O-RING	1
970300288	17	GASKET,M8	4
970300306	18	GASKET,RING D14	4
970300199	19	GASKET,RING D16	2
970310008	20	CASE	1
970301347	21	INSERT,CASE	1
970301348	22	INSERT,CASE BOTTOM	1
970604529	23	GASKET,F5B	1
970604530	24	IMPELLER,WATER PUMP F 5B/-9	1

#### 4.150HE STANDARD ENGINE / COUPLING



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
970307191	22	SET OF GASKETS	1