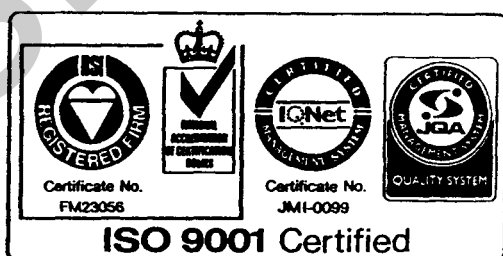


YANMAR DIESEL ENGINE

YANMAR

PARTS CATALOG



Published

June, 1998

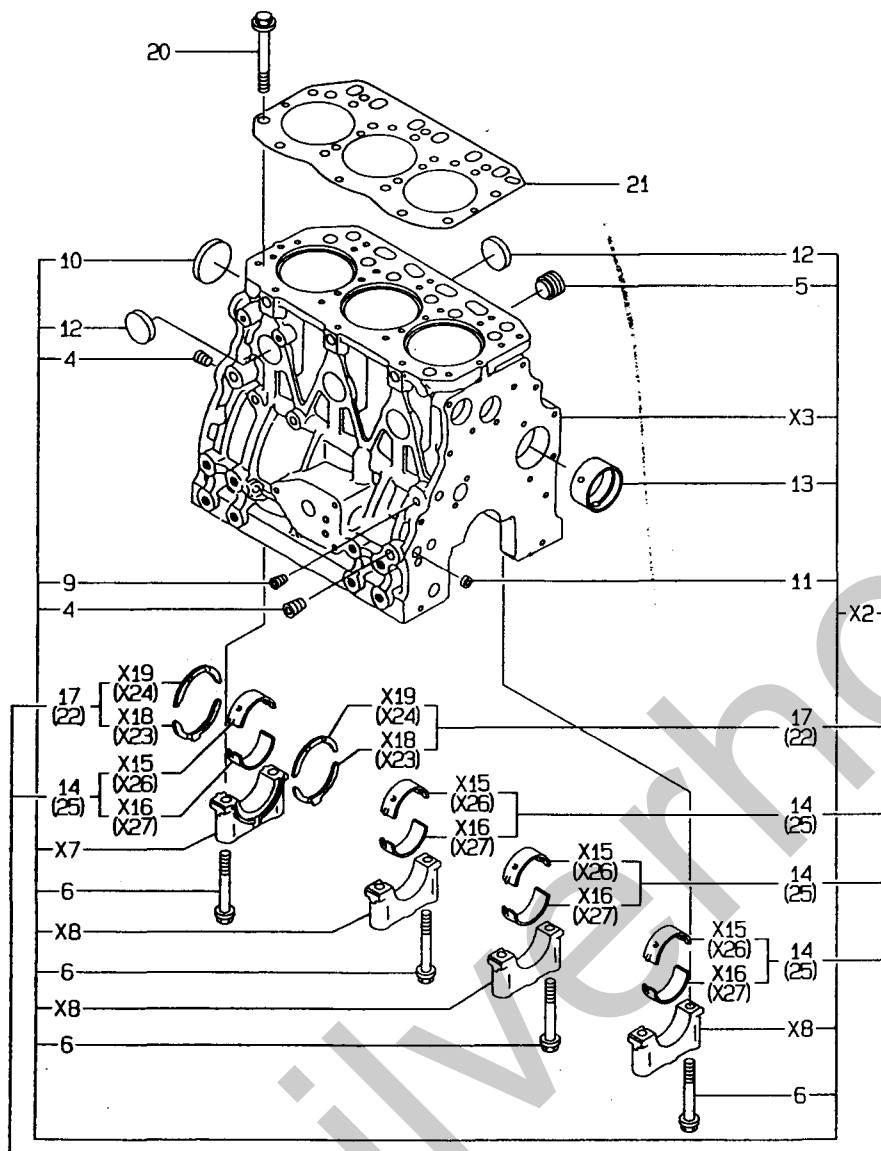
000Y00V5210

MODEL

3TNE88-PG

(PRAMAC)

1.CYLINDER BLOCK



X-MARK PARTS: NOT SOLD SEPARATELY.

1A02
(1A01)
Y00V5210

(1) CYLINDER BLOCK

98.06.25

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

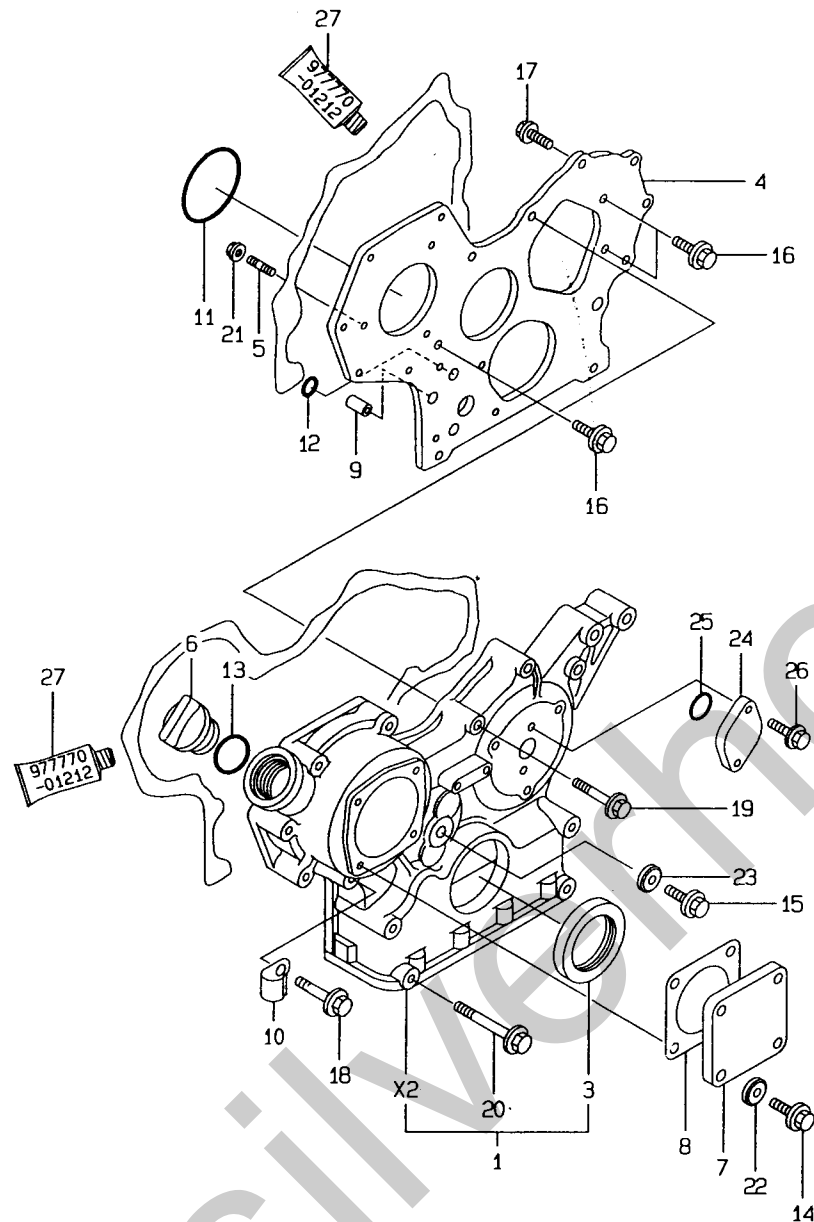
REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	729001-01560	BLOCK ASSY, CYLINDER	1						
2	.. X	129001-01000	BLOCK ASSY, CYLINDER	1						
3	...	129001-01010	BLOCK, CYLINDER	1						
4	...	124160-01910	PLUG PT1/4	3						
5	...	171051-01921	PLUG	1						
6	...	129150-02020	BOLT, METAL CAP	8						
7	...	129150-02300	BEARING CAP	1						
8	...	129150-02310	BEARING CAP	3						
9	...	23871-010000	PLUG PT1/8, SCREW	1						
10	...	27231-500000	PLUG 50	1						
11	...	27241-120000	PLUG 12	2						
12	...	27241-300000	PLUG 30	6						
13	...	129795-02411	BUSH, CAMSHAFT	1						
14	..	129001-02800	MAIN BEARING	4						
15	...	129001-02100	MAIN BEARING UPPER	4						
16	...	129001-02110	MAIN BEARING UPPER	4						
17	..	129150-02930	METAL, THRUST	2						
18	...	129150-02150	THRUST BEARING, LOWER	2						
19	...	129150-02160	THRUST BEARING, UPPER	2						
20	.	129150-01200	STUD, CYL. HEAD	14						
21	.	129001-01340	GASKET, (NON-ASB.)	1						
22	.	129150-02940	METAL, THRUST OS=0.25	2						(1)
23	.. X	129150-02360	LOWER BEARING, THRUST	2						(1)
24	.. X	129150-02370	UPPER BEARING, THRUST	2						(1)
25	.	129150-02870	MAIN METAL US=0.25	4						(2)
26	.. X	129150-02320	UPPER BEARING, MAIN	4						(2)
27	.. X	129150-02330	LOWER BEARING, MAIN	4						(2)

REMARKS

(1) OVER-SIZE (O.S.=0.25) PART.
(2) UNDER-SIZE (U.S.=0.25) PART.

Y115147

2. GEAR HOUSING



X-MARK PARTS: NOT SOLD SEPARATELY.

+-----+
| 1A03 |
| (1A01) |
+-----+
Y00V5210

(2) GEAR HOUSING

98.06.25

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

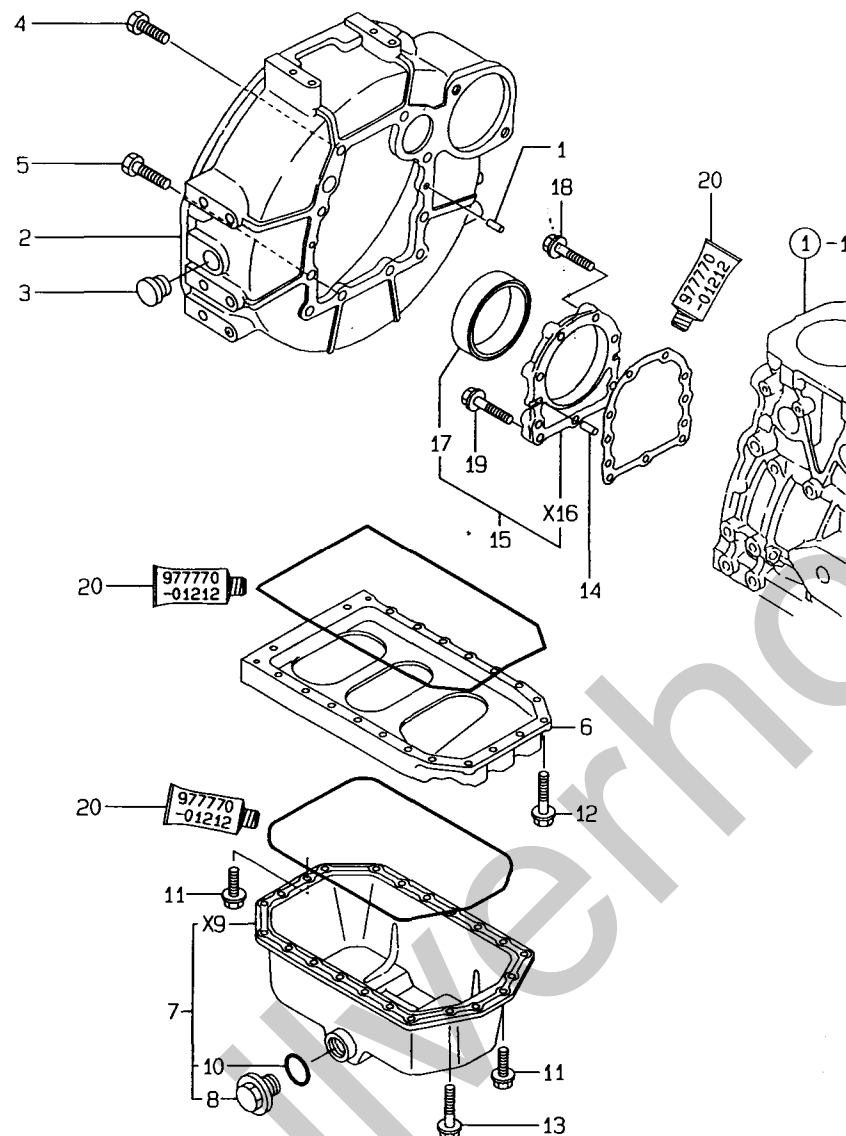
REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY	I	P	U	A	R
				(A) (B) (C) (D) (E) (F)					
1	.	719810-01500	HOUSING ASSY, GEAR	1					
2	.. X	129400-01500	HOUSING, GEARS	1					
3	..	129795-01800	SEAL, OIL	1					
4	.	129400-01520	FLANGE, GEARS HOUSING	1					
5	.	121450-01560	STUD M 8X 22	3					
6	.	124160-01751	CAP, LUB.OIL SUPPLY	1					
7	.	124240-01871	COVER, HO-P	1					
8	.	124240-01883	GASKET, (NON-ASB.)	1					
9	.	129795-01950	PIPE, KNOCK L=18	2					
10	.	129150-03100	RETAINER	1					
11	.	121850-51960	O-RING, F.I.PUMP	1					
12	.	24311-000160	O-RING 1A P-16.0	2					
13	.	24311-000320	O-RING 1A P-32.0	1					
14	.	26106-080122	BOLT M 8X 12 PLATED	4					
15	.	26106-080162	BOLT M 8X 16 PLATED	1					
16	.	26106-080162	BOLT M 8X 16 PLATED	3					
17	.	26106-080202	BOLT M 8X 20 PLATED	2					
18	.	26106-080452	BOLT M 8X 45 PLATED	6					
19	.	26106-080552	BOLT M 8X 55 PLATED	3					
20	.	26106-080852	BOLT M 8X 85 PLATED	4					
20-1	.	129001-91840	BOLT M 8X 85 PLATED	4					R
(A=E16633)									
21	.	26366-080002	NUT M 8	3					
22	.	22190-080002	SEAL WASHER 8S	4					
23	.	22190-080002	SEAL WASHER 8S	1					
24	.	121023-01550	COVER, BLIND	1					
25	.	24341-000240	O-RING 1A S-24.0	1					
26	.	26106-060162	BOLT M 6X 16 PLATED	2					
27	.	977770-01212	GASKET, LIQUID	1					(1)

REMARKS

(1) OPTIONAL PART.

Y115148

3.FLYWHEEL HOUSING & OIL SUMP



X-MARK PARTS: NOT SOLD SEPARATELY.

+-----+
1A04 |
| (1A01) |
+-----+
Y00V5210

(3) FLYWHEEL HOUSING & OIL SUMP

98.06.25

(A)=3TNE88-PG

(D)=

(B)=

(E)=

(C)=

(F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY-----						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	-	129100-01580	PARALLEL PIN 8X16	2						
2	-	171420-01600	HOUSING, FLYWHEEL	1						
3	-	119620-01750	CAP, FLYWHEEL COVER	1						
4	-	26206-100252	BOLT M10X25	6						
5	-	26206-100302	BOLT M10X30	4						
6	-	129100-01730	SPACER, OIL SUMP	1						
7	-	129100-01760	SUMP ASSY, OIL	1						
8	-	171301-01640	PLUG M22	1						
9	-	X 129100-01700	OIL SUMP, DEEPER	1						
10	-	24341-000250	O-RING 1A S-25.0	1						
11	-	26106-080162	BOLT M 8X 16 PLATED	4						
12	-	26106-080252	BOLT M 8X 25 PLATED	2						
13	-	26106-080452	BOLT M 8X 45 PLATED	20						
14	-	129100-01580	PARALLEL PIN 8X16	2						
15	-	129100-01640	CASE ASSY, OIL SEAL	1						
16	-	X 129150-01650	CASE, OIL SEAL	1						
17	-	129795-01780	SEAL OIL	1						
18	-	129486-01670	BOLT M8X30, COLLAR HD	6						
19	-	26106-080352	BOLT M 8X 35 PLATED	3						
20	-	977770-01212	GASKET, LIQUID	1						(1)

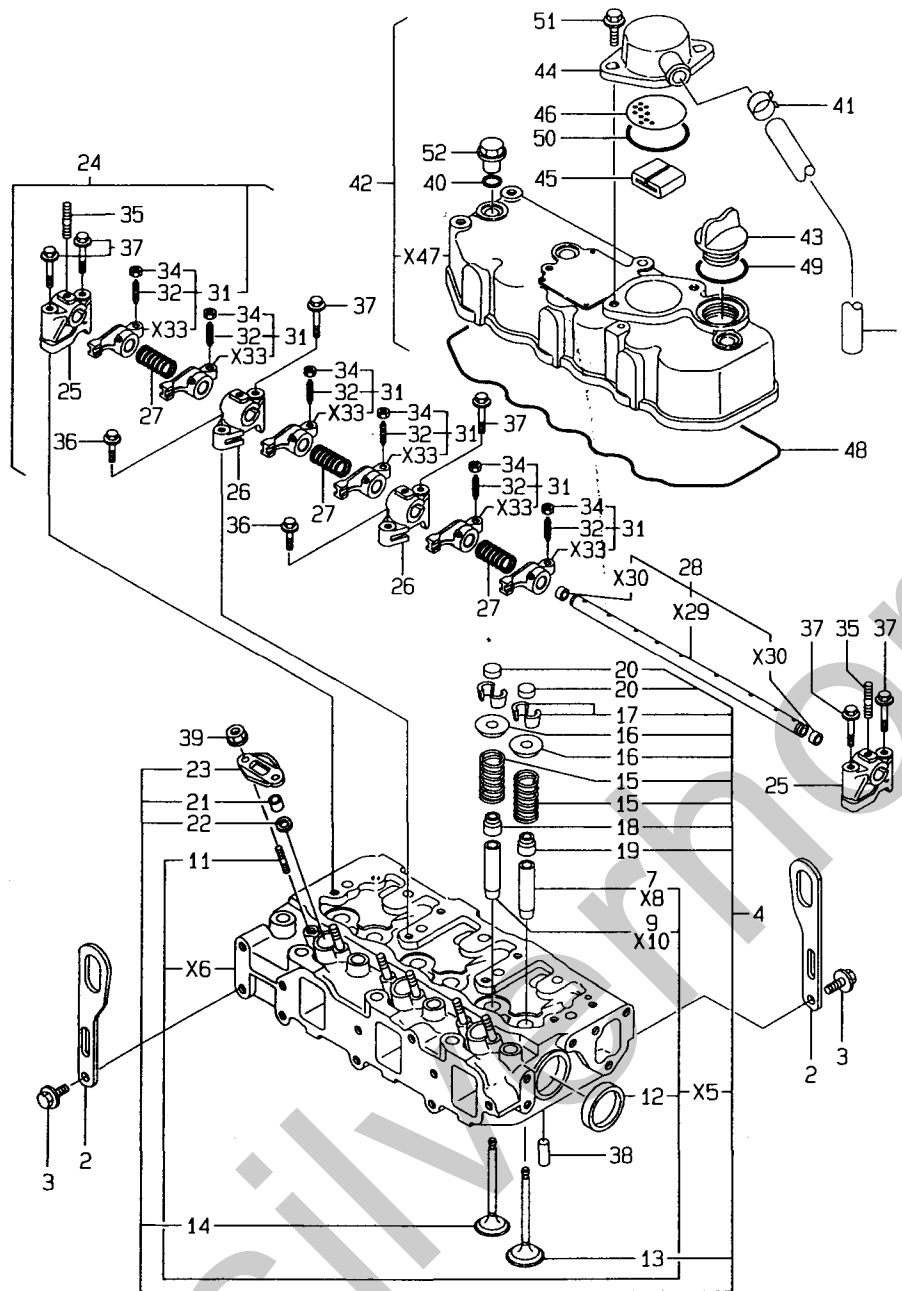
REMARKS

(1) OPTIONAL PART.

Y115149

4. CYLINDER HEAD & BONNET

98.06.25



X-MARK PARTS: NOT SOLD SEPARATELY.

 1A05
 (1A01)
 Y00V5210

(4) CYLINDER HEAD & BONNET

 (A)=3TNE88-PG (D)=
 (B)= (E)=
 (C)= (F)=

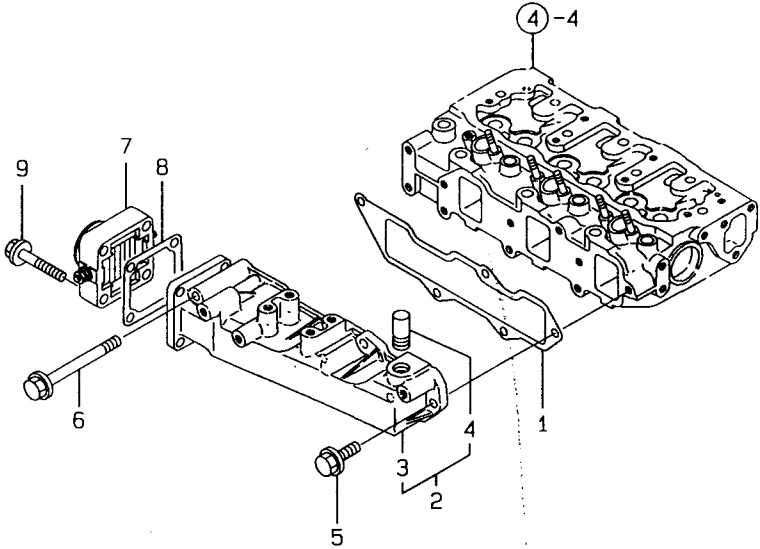
REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY-----						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	129219-03100	HOSE	1						
2	.	124736-07900	LIFTER, ENGINE	2						
3	.	26106-080142	BOLT M 8X 14 PLATED	4						
4	.	129001-11700	HEAD ASSY, CYLINDER	1						
5	.. X	129001-11000	HEAD ASSY, CYLINNDER	1						
6	... X	129001-11010	CYLINDER HEAD	1						
7	...	120130-11860	GUIDE, VALVE	3						(1)
8	... X	120130-11160	GUIDE, VALVE	3						
9	...	129150-11810	GUIDE, VALVE	3						(1)
10	... X	129150-11170	GUIDE, VALVE	3						
11	...	26216-060202	STUD M 6X 20 PLATED	6						
12	...	27241-400000	PLUG 40	2						
13	..	129100-11100	VALVE, INTAKE	3						
14	..	129100-11110	VALVE, EXHAUST	3						
15	..	129795-11120	SPRING, VALVE	6						
16	..	129795-11180	RETAINER, SPRING	6						
17	..	27310-080000	COTTER 8	6						
18	..	121400-11340	SEAL, VALVE STEM	3						
19	..	124460-11340	SEAL, VALVE STEM	3						
20	..	129150-11370	CAP, VALVE	6						
21	..	119625-11870	PROTECTOR, NOZZLE	3						
22	..	119625-11880	SEAT, NOZZLE	3						
23	..	119625-11900	RETAINER	3						
24	..	129100-11240	SHAFT ASSY, ROCKER	1						
25	..	129155-11260	SUPPORT, ROCKER ARM	2						
26	..	129155-11270	SUPPORT, ROCKER ARM	2						
27	..	129150-11280	SPRING	3						
28	..	129150-11290	SHAFT, ROCKER ARM	1						
29	... X	129150-11250	SHAFT	1						
30	... X	27241-100000	PLUG 10	2						
31	..	129100-11650	ARM ASSY, ROCKER	6						
32	...	129150-11230	SCREW, VALVE	6						
33	... X	129100-11710	ARM	6						
34	...	129150-11750	NUT M8XP1.0	6						
35	..	26226-080182	STUD M 8X 18 PLATED	3						
36	..	26106-080252	BOLT M 8X 25 PLATED	2						
37	..	26106-080502	BOLT M 8X 50 PLATED	6						
38	..	22351-060012	SPRING PIN 6X12	2						
39	..	26366-060002	NUT M 6	6						
40	..	24311-000120	O-RING 1A P 12.0	3						
41	..	129410-03990	CLAMP 24	2						
42	..	129100-11350	BONNET ASSY	1						
43	..	124160-01751	CAP, LUB.OIL SUPPLY	1						
44	..	129150-03020	COVER, BREATHER	1						
45	..	129150-03070	BAFFLE, BREATHER	1						
46	..	129150-03080	PLATE, SHELTER	1						
47	.. X	129100-11300	BONNET	1						
48	..	129150-11310	GASKET, BONNET	1						
49	..	24311-000320	O-RING 1A P-32.0	1						
50	..	24341-000500	O-RING 1A S-50.0	1						
51	..	26106-080162	BOLT M 8X 16 PLATED	2						
52	..	124160-11360	KNOB	3						

REMARKS

(1) REPAIR PART.

Y115150

5. SUCTION MANIFOLD



1A06
1A01
Y00V5210

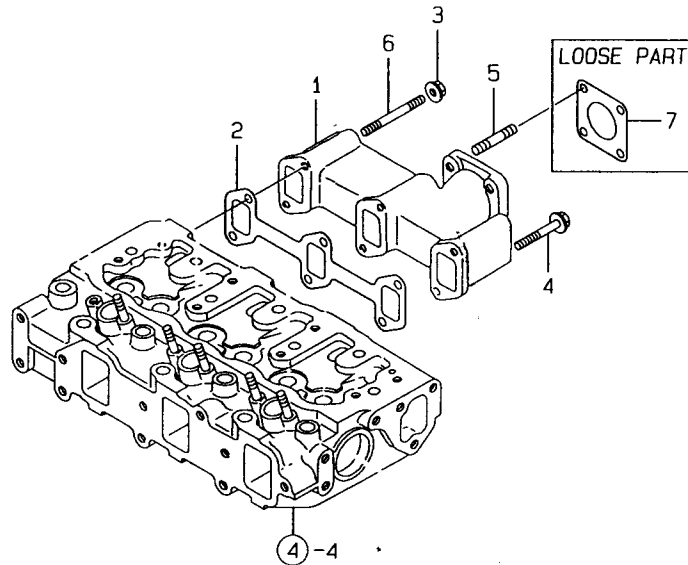
(5) SUCTION MANIFOLD

98.06.25

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	129001-12110	GASKET, INT. MANIFOLD	1						
2	.	129219-12700	MANIFOLD ASSY	1						
3	..	129219-12100	MANIFOLD	1						
4	..	104407-44480	JOINT	1						
5	.	26106-080202	BOLT M 8X 20 PLATED	4						
6	.	26106-080802	BOLT M 8X 80 PLATED	1						
7	.	129120-77501	HEATER, AIR	1						
8	.	129150-77511	GASKET, (NON-ASB.)	1						
9	.	26106-080352	BOLT M 8X 35 PLATED	4						

6. EXHAUST MANIFOLD



1A07
1A01
Y00V5210

(6) EXHAUST MANIFOLD

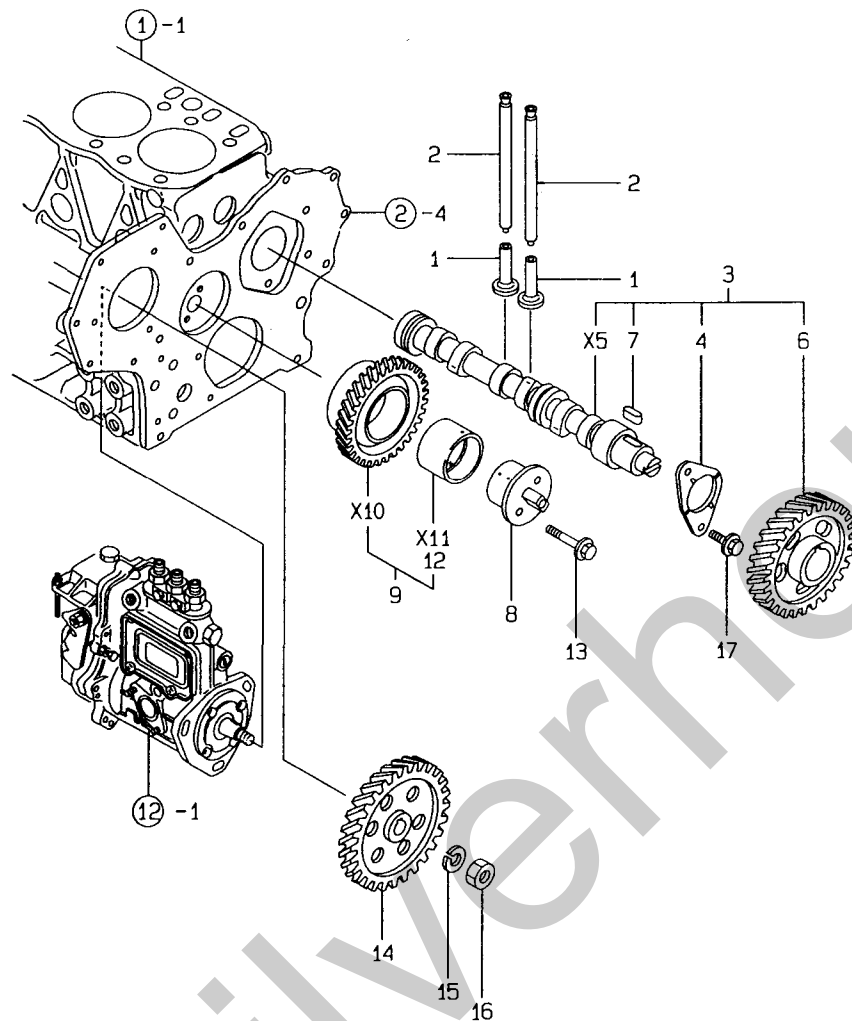
98.06.25

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY	I	P	U	A	R
				(A) (B) (C) (D) (E) (F)					
1	.	129100-13110	MANIFOLD, EXHAUST	1					
2	.	129150-13110	GASKET, EXH. MANIFOLD	1					
3	.	26366-080002	NUT M 8	2					
4	.	26106-080802	BOLT M 8X 80 PLATED	4					
5	.	26216-080222	STUD M 8X 22 PLATED	4					
5- 1	.	119131-18320	BOLT M 8X 22	4					N
(A=E16026)									
6	.	26216-080802	STUD M 8X 80 PLATED	2					
7	.	124701-11911	GASKET, (NON-ASB.)	1					

7. CAMSHAFT & DRIVING GEAR

98.06.25



X-MARK PARTS: NOT SOLD SEPARATELY.

1A08
(1A01)
Y00V5210

(7) CAMSHAFT & DRIVING GEAR

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

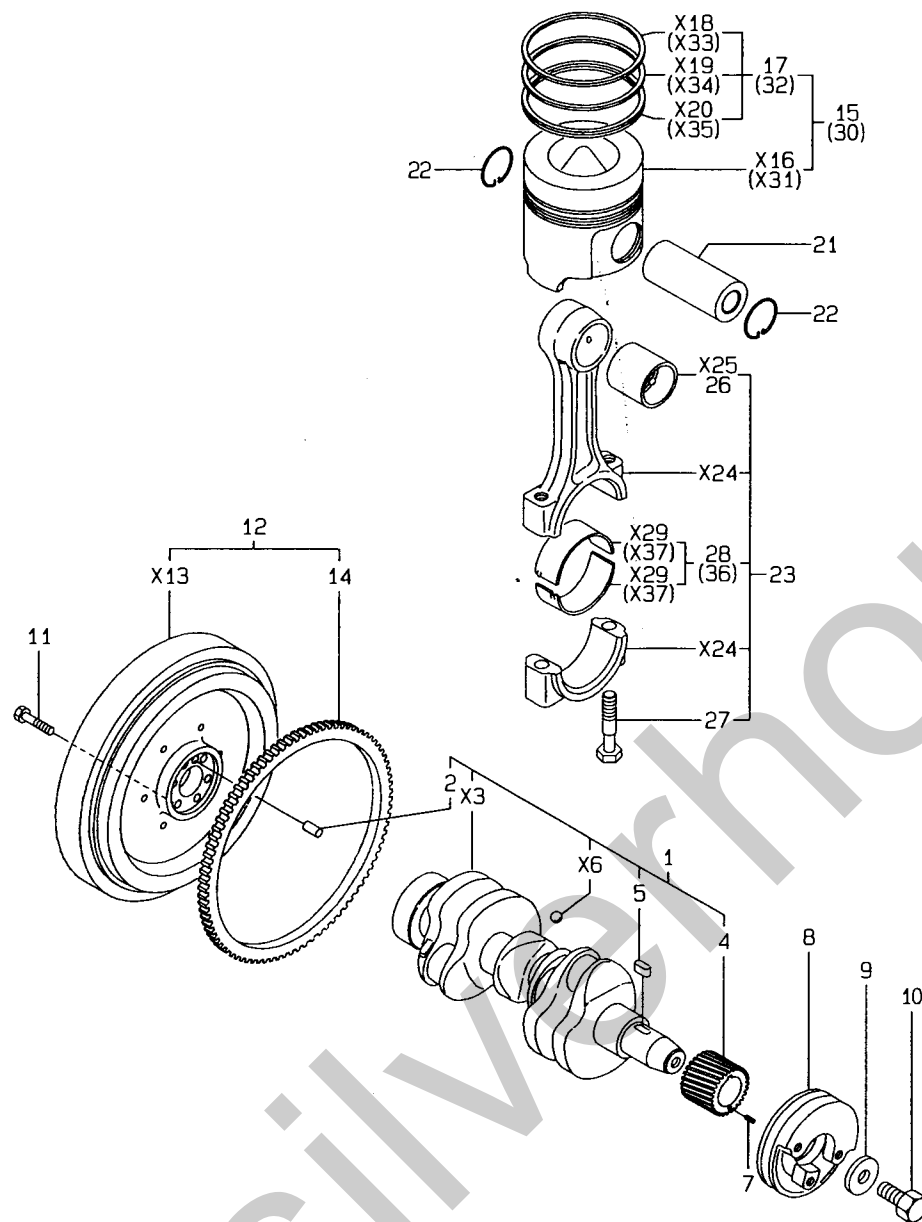
REF. NO.	LEV. 0	PART NO.	DESCRIPTION	-----Q'TY-----						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	129150-14200	TAPPET	6						
2	.	129150-14400	ROD, PUSH	6						
3	.	129129-14580	CAMSHAFT ASSY	1						
4	..	129150-02450	METAL, THRUST	1						
5	.. X	129150-14011	CAMSHAFT	1						
6	..	129150-14101	GEAR, CAMSHAFT	1						
7	..	22512-070140	KEY 7X 14	1						
8	.	129100-25061	SHAFT, IDLE GEAR	1						
9	.	129150-25101	GEAR W/BUSH	1						
10	.. X	129150-25010	GEAR, IDLE	1						
11	.. X	129150-25061	BUSH, IDLE GEAR	1						
12	..	129150-25920	BUSH, IDLE GEAR	1						(1)
13	.	26106-080452	BOLT M 8X 45 PLATED	2						
14	.	129150-25900	GEAR, FUEL INJ. PUMP	1						
15	.	22217-120000	SPRING WASHER	1						
16	.	26716-120002	NUT 12	1						
17	.	26106-080142	BOLT M 8X 14 PLATED	2						

REMARKS

(1) REPAIR PART.

Y115153

8. CRANKSHAFT & PISTON



X-MARK PARTS: NOT SOLD SEPARATELY.

(8) CRANKSHAFT & PISTON

98.06.25

1A09
(1A01)
Y00V5210(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

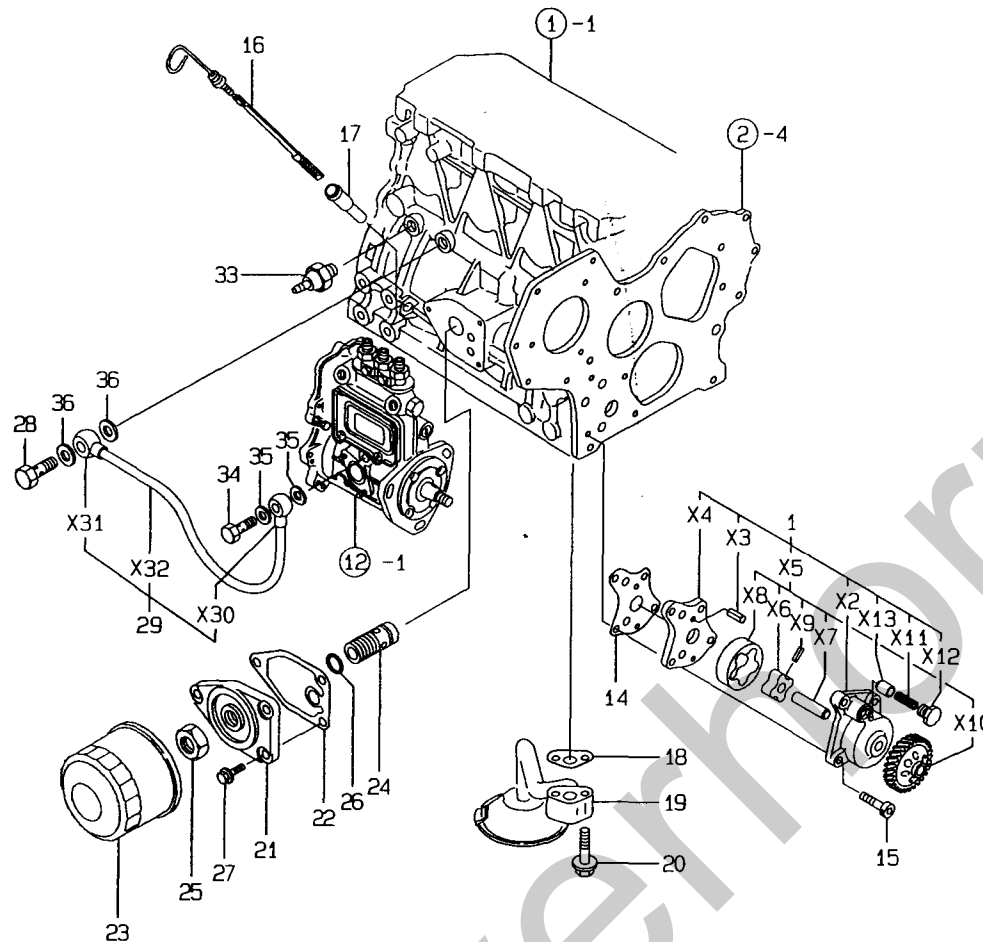
REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	129001-21000	CRANKSHAFT ASSY	1						
2	..	129100-01580	PARALLEL PIN 8X16	1						
3	.. X	129001-21010	CRANKSHAFT	1						
4	..	129150-21200	GEAR, CRANKSHAFT	1						
5	..	22512-070140	KEY 7X 14	1						
6	.. X	24190-080001	BALL 1/4, STEEL	3						
7	.	22351-040010	SPRING PIN 4X10	1						
8	.	129150-21650	V-PULLEY	1						
9	.	129795-21661	WASHER	1						
10	.	121850-21680	BOLT, V-PULLEY	1						
11	.	121111-21501	BOLT, FLYWHEEL	6						
12	.	171340-21590	FLYWHEEL W/RING GEAR	1						
13	.. X	171340-21400	FLYWHEEL	1						
14	..	124550-21600	RING GEAR	1						
15	.	129001-22081	PISTON W/RINGS	3						
16	.. X	129001-22011	PISTON	3						
17	..	129001-22500	RING SET, PISTON	3						
18	.. X	129001-22100	RING, TOP	3						
19	.. X	129001-22110	RING, 2ND	3						
20	.. X	129001-22160	RING, OIL	3						
21	.	129202-22300	PIN, PISTON	3						
22	.	22252-000260	CIRCLIP 26	6						
23	.	729402-23100	ROD ASSY, CONNECTING	3						
24	.. X	129150-23010	CONNECTING ROD	3						
25	.. X	129100-23100	BUSH, PISTON PIN	3						
26	..	129100-23910	BUSH, PISTON PIN	3						(1)
27	..	121550-23200	BOLT, CONNECTING ROD	6						
28	..	129150-23600	BEARING, CRANKPIN	3						
29	.. X	129150-23300	BEARING, CRANKPIN	6						
30	.	129001-22901	PISTON W/RING OS=.25	3						(2)
31	.. X	129001-22701	PISTON O.S=0.25	3						(2)
32	..	129001-22950	RING SET O.S=0.25	3						(2)
33	.. X	129001-22750	1ST RING O.S=0.25	3						(2)
34	.. X	129001-22760	2ND RING O.S=0.25	3						(2)
35	.. X	129001-22800	OIL RING O.S=0.25	3						(2)
36	.	129150-23610	METAL PIN US=0.25	3						(3)
37	.. X	129150-23350	BEARING, PIN U.S=0.25	6						(3)

REMARKS

(1) REPAIR PART.
(2) OVER-SIZE (O.S=0.25) PART.
(3) UNDER-SIZE (U.S=0.25) PART.

Y115154

9.LUB.OIL SYSTEM



X-MARK PARTS: NOT SOLD SEPARATELY.

+-----+
1A10
(1A01)
+-----+
Y00V5210

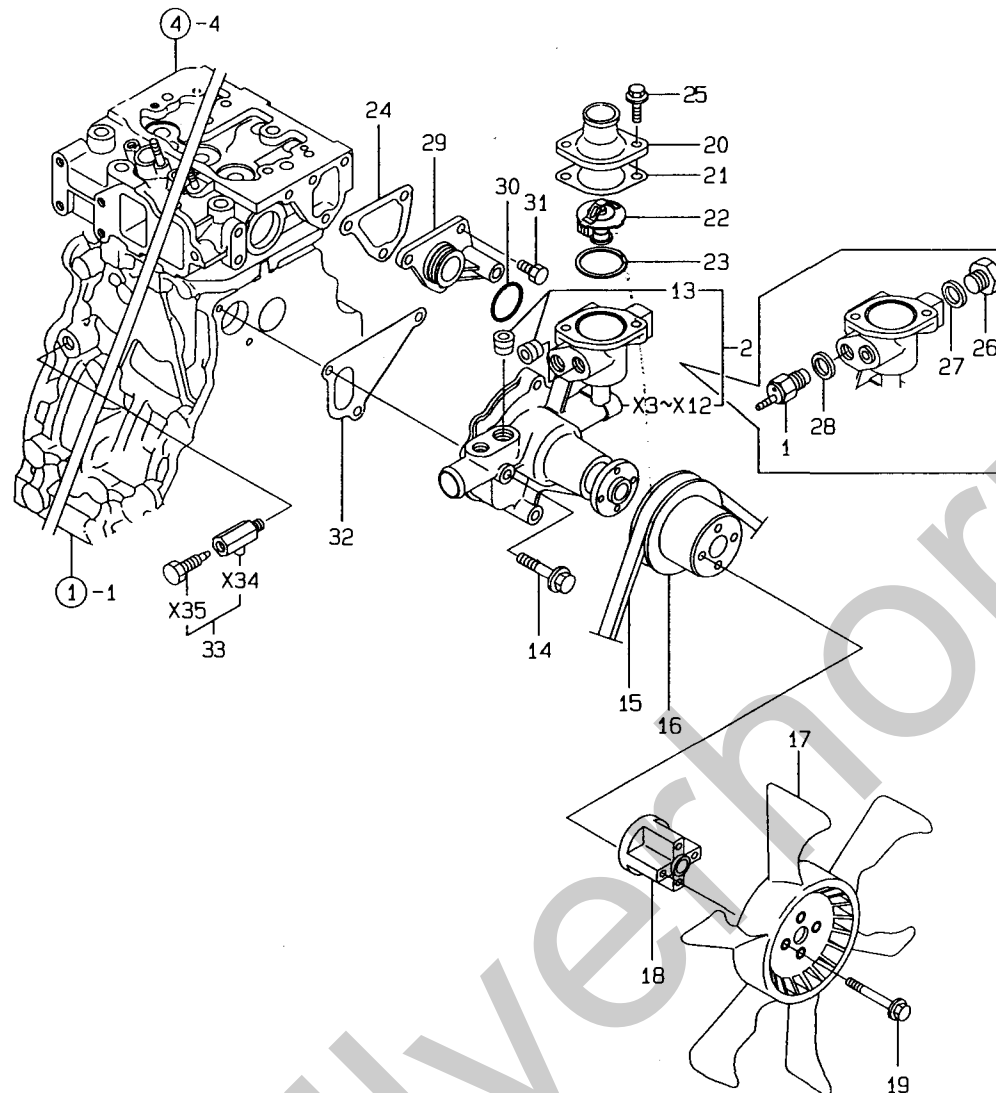
(9) LUB.OIL SYSTEM

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

98.06.25

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	-----Q'TY-----						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	129001-32001	PUMP ASSY, LUB. OIL	1						
2	..	X 129001-32010	BODY	1						
3	..	X 22351-040008	SPRING PIN 4X 8	2						
4	..	X 119810-32080	COVER, L.O. PUMP	1						
5	..	X 129001-32150	ROTOR ASSY	1						
6	...	X 129150-32100	ROTER, INNER	1						
7	...	X 129001-32110	SHAFT, L.O. PUMP	1						
8	...	X 129150-32120	ROTER, OUTER	1						
9	...	X 121850-32170	PIN	1						
10	...	X 129150-32201	GEAR, LUBE OIL PUMP	1						
11	..	X 129001-32320	SPRING	1						
12	..	X 129001-32330	PLUG	1						
13	..	X 129001-32130	VALVE, RELIEF	1						
14	.	129150-32020	GASKET, L.O. PUMP	1						
15	.	26450-060252	BOLT M 6X 25	4						
16	.	171420-34820	DIPSTICK, LUB. OIL	1						
17	.	121520-34810	GUIDE, DIPSTICK	1						
18	.	129150-35041	GASKET, (NON-ASB.)	1						
19	.	129100-35301	PIPE ASSY, OIL INLET	1						
20	.	26106-080352	BOLT M 8X 35 PLATED	2						
21	.	129150-35101	BRACKET, STRAINER	1						
22	.	129150-35111	GASKET, (NON-ASB.)	1						
23	.	129150-35151	FILTER 80X80L	1						
24	.	129001-35300	BOLT, LUB.O. STRAINER	1						
25	.	129150-35350	NUT	1						
26	.	24311-000160	O-RING 1A P-16.0	1						
27	.	26106-080202	BOLT M 8X 20 PLATED	3						
28	.	124160-39140	BOLT 10, PIPE JOINT	1						
29	.	129150-39450	PIPE ASSY, LUB. OIL	1						
30	..	X 129150-39150	JOINT 8	1						
31	..	X 129150-39180	JOINT 10	1						
32	..	X 129150-39410	PIPE, LUB. OIL	1						
33	.	124160-39450	SWITCH, OIL PRESSURE	1						
34	.	124550-59820	BOLT 8, PIPE JOINT	1						
35	.	23414-080000	GASKET 8, ROUND	2						
36	.	23414-100000	GASKET 10, ROUND	2						

10. COOLING WATER SYSTEM



X-MARK PARTS: NOT SOLD SEPARATELY.

1A11
(1A01)
Y00V5210

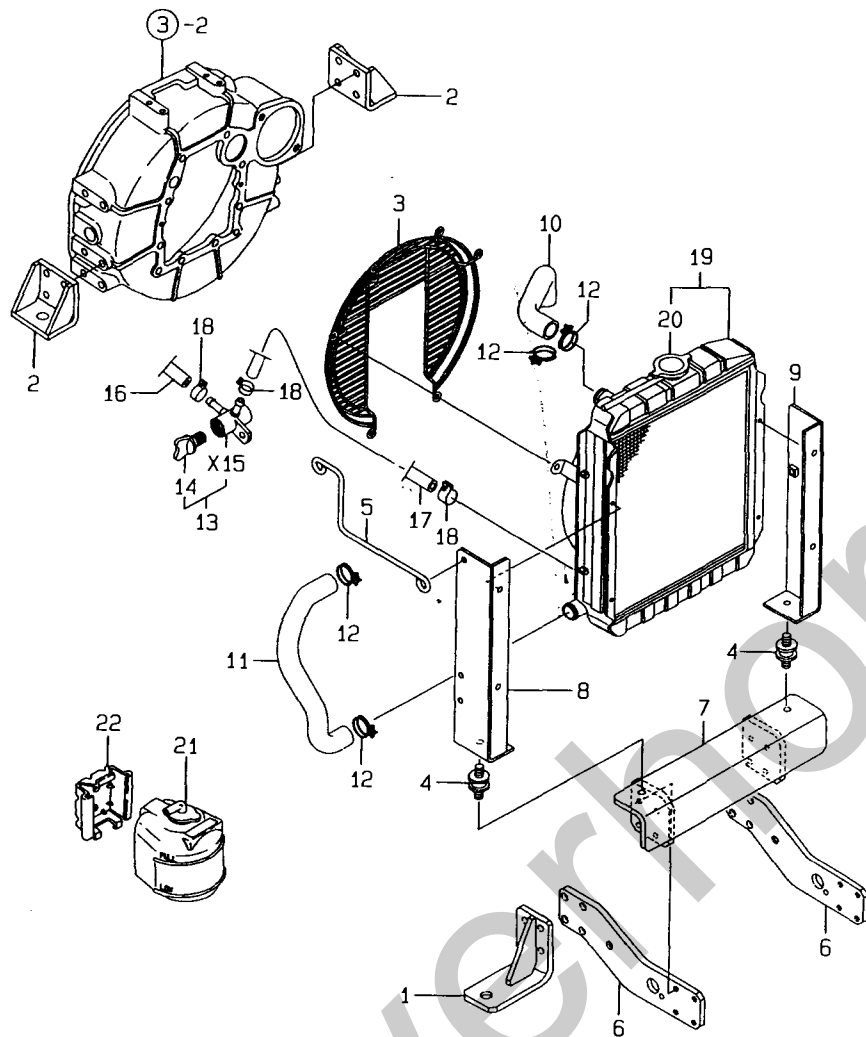
(10) COOLING WATER SYSTEM

98.06.25

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	-----Q'TY-----						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	121250-44901	SWITCH, THERMO(110°C	1						
2	.	129001-42002	PUMP ASSY, C.WATER	1						
3	.. X	129001-42032	BODY, C.W. PUMP	1						
4	.. X	129100-42051	GASKET, (NON-ASB.)	1						
5	.. X	129100-42120	PLATE	1						
6	.. X	129100-42201	IMPELLER	1						
7	.. X	127610-43301	SHAFT W/BEARING	1						
8	.. X	129150-42260	SEAT, PULLEY	1						
9	.. X	119265-42310	SEAL, MECHANICAL	1						
10	.. X	23871-010000	PLUG PT1/8, SCREW	1						
11	.. X	121850-42410	SCREW	3						
12	.. X	23871-020000	PLUG PT1/4, SCREW	1						
13	..	23871-030000	PLUG PT3/8, SCREW	2						
14	.	26106-080602	BOLT M 8X 60 PLATED	3						
15	.	25132-003800	V-BELT (A-38)	1						
16	.	129155-42350	V-PULLEY, C.W. PUMP	1						
17	.	171340-44740	FAN, COOLING	1						
18	.	171353-44760	SPACER	1						
19	.	26106-060352	BOLT M 6X 35 PLATED	4						
20	.	129350-49560	COVER, THERMOSTAT	1						
21	.	129795-49551	GASKET, (NON-ASB.)	1						
22	.	129155-49800	THERMOSTAT	1						
23	.	129150-49811	GASKET, (NON-ASB.)	1						
24	.	129100-49840	GASKET, THERMO. CASE	1						
25	.	26106-080202	BOLT M 8X 20 PLATED	2						
26	.	121450-42450	PLUG M16	1						
27	.	124465-44950	GASKET 16	1						
28	.	124465-44950	GASKET 16	1						
29	.	129001-42040	JOINT	1						
30	.	24321-000300	O-RING G30	1						
31	.	26106-080162	BOLT M 8X 16 PLATED	3						
32	.	129100-42020	GASKET, C.W. PUMP	1						
33	.	119620-49290	COCK ASSY 1/4	1						
34	.. X	119620-49300	BODY, COCK	1						
35	.. X	119620-49310	VALVE	1						

11. RADIATOR



1A12
(1A01)
Y00V5210

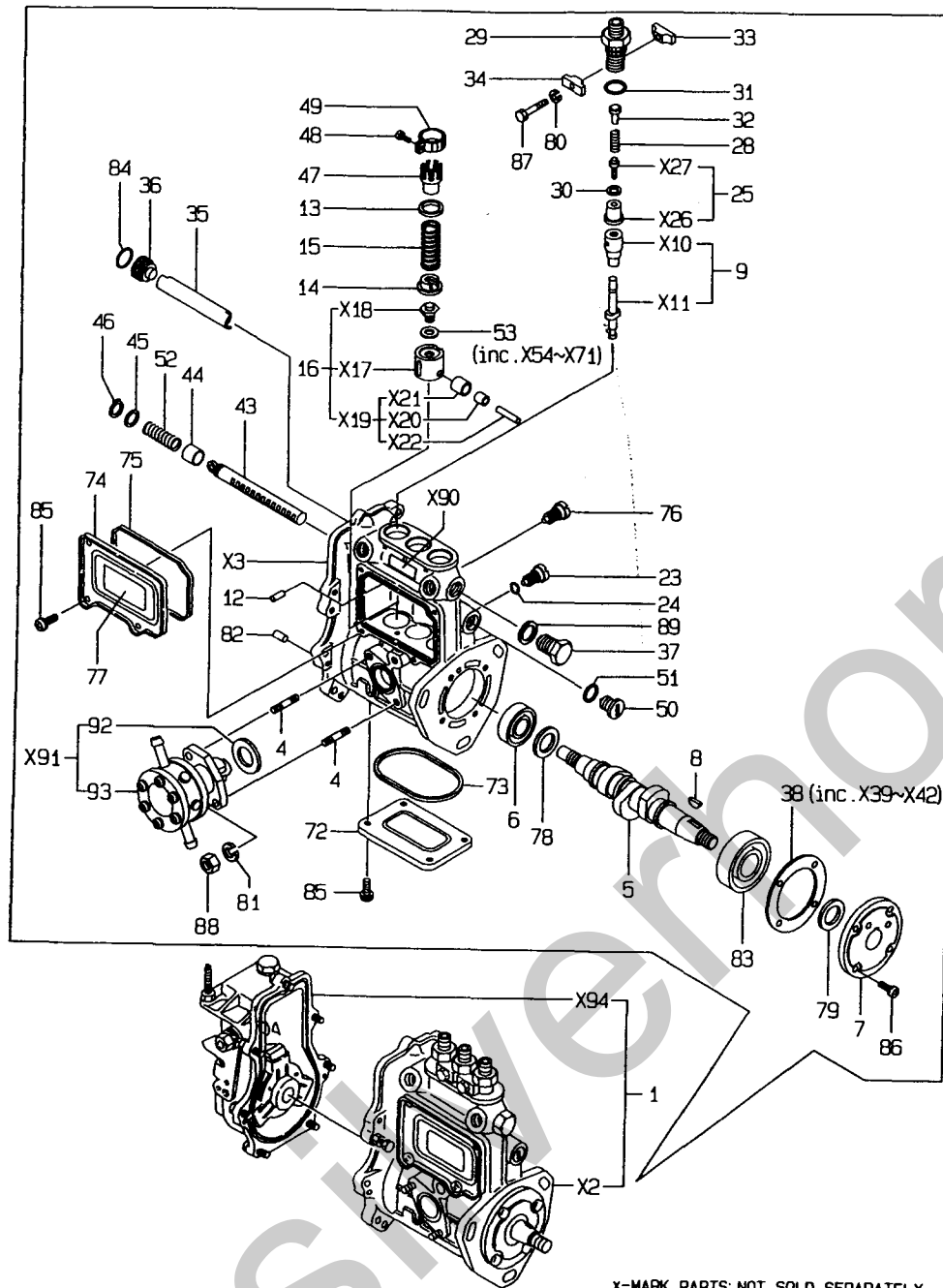
(11) RADIATOR

98.06.

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I P/U A
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	129188-08100	BRACKET (A), ENGINE	2						
2	.	119888-08110	BRACKET (B), ENGINE	2						
3	.	129120-44560	PROTECTOR, FAN	1						
4	.	121400-44650	ABSORBER, SHOCK	2						
5	.	129211-44940	SUPPORT, RADIATOR	1						
6	.	129188-44950	BRACKET (A)	2						
7	.	129188-44960	BRACKET (B), RADIATOR	1						
8	.	129188-44970	SUPPORT (A)	1						
9	.	129188-44980	SUPPORT (B)	1						
10	.	171301-49010	PIPE (A), C. WATER	1						
11	.	129211-49020	PIPE (B), C. WATER	1						
12	.	23010-038000	CLAMP 38	4						
13	.	129150-49100	COCK ASSY, 3-WAY	1						
14	..	129150-49080	COCK, DRAIN	1						
15	.. X	129150-49090	BODY, 3-WAY COCK	1						
16	.	121737-49160	PIPE, WATER DRAIN	1						
17	.	121520-49160	PIPE, WATER DRAIN	1						
18	.	124766-59050	CLAMP 12	4						
19	.	129420-44510	RADIATOR	1						
20	..	123682-44210	CAP	1						
21	.	120445-44530	RESERVOIR	1						
22	.	120445-44540	BRACKET, SUB-TANK	1						

12.FUEL INJECTION PUMP



X-MARK PARTS: NOT SOLD SEPARATELY.

1A13
(1A01)
Y00V5210

(12) FUEL INJECTION PUMP

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

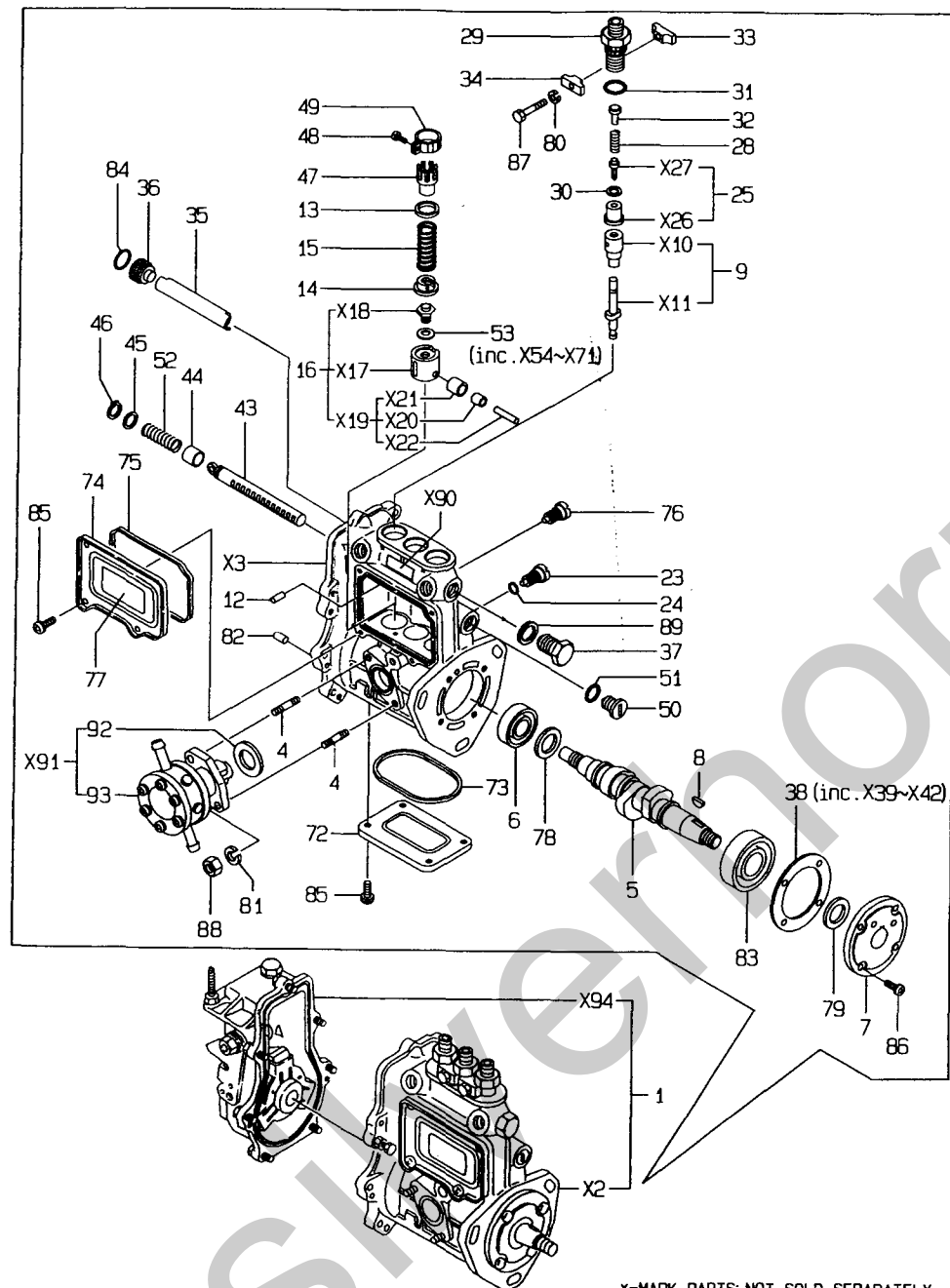
98.06.25

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY	I	P	U	A	R
				(A) (B) (C) (D) (E) (F)					
1	.	729209-51300	FUEL INJECTION PUMP	1					(1)
2	.. X	129015-51000	FUEL INJECTION PUMP	1					
3	... X	129155-51010	BODY, FUEL I. PUMP	1					
4	...	129155-51020	STUD, FEED PUMP	2					
5	...	119810-51040	CAMSHAFT	1					
6	...	129155-51050	BALL BEARING, THRUST	1					
7	...	129155-51060	CAM SHAFT SUPPORT	1					
8	...	122710-51090	KEY	1					
9	...	129506-51100	PLUNGER W/BARREL	3					
10	X	129470-51110	BARREL	3					
11	X	129506-51130	PLUNGER	3					
12	...	129155-51140	PIN, BARREL LOCKING	3					
13	...	174307-51170	RETAINER A	3					
14	...	129155-51180	SPRING SHOE, PLUNGER	3					
15	...	124950-51190	SPRING, PLUNGER	3					
16	...	129155-51200	TAPPET ASSY	3					
17	X	129155-51240	GUIDE, ROLLER	3					
18	X	129155-51250	BOLT, ADJUSTING	3					
19	X	711100-51540	ROLLER ASSY	3					
20	X	111100-51210	ROLLER, INNER	3					
21	X	111100-51220	ROLLER	3					
22	X	174100-54120	PIN, ROLLER	3					
23	...	129155-51270	LOCKING, TAPPET	3					
24	...	129155-51280	O-RING S6	3					
25	...	129100-51300	VALVE W/SEAT, DELIV.	3					
26	X	124550-51310	SEAT	3					
27	X	129100-51320	VALVE, DELIVERY	3					
28	...	129155-51320	SPRING, DELIV. VALVE	3					
29	...	129155-51340	GUARD, DELIVERY VALVE	3					
30	...	124550-51350	GASKET, DELIVERY	3					
31	...	124550-51370	O-RING, DELIVERY	3					
32	...	129155-51370	STOPPER, VALVE	3					
33	...	129155-51380	LOCKING (A)	2					
34	...	129155-51390	LOCKING (B)	2					
35	...	129155-51400	DEFLECTOR	1					
36	...	129155-51410	CHECK BOLT, DEFLECTOR	1					
37	...	129155-51420	PLUG (M16)	1					
38	...	129155-51450	SHIM SET, ADJUSTING	1					
39	X	129155-51460	PACKING T=0.5	1					
40	X	129155-51470	PACKING T=0.4	1					
41	X	129155-51480	PACKING T=0.3	1					
42	X	129155-51490	PACKING T=0.15	1					
43	...	129155-51500	RACK, CONTROL	1					
44	...	129155-51521	BUSH, RACK	1					
45	...	129155-51530	SPACER, AUX. SPRING	1					
46	...	129155-51540	CIRCLIP	1					
47	...	129155-51550	PINION, CONTROL	3					
48	...	122117-51560	SCREW, PINION	3					
49	...	174307-51560	PINION	3					
50	...	129155-51570	PLUG (M12)	1					
51	...	129155-51580	O-RING	1					
52	...	129155-51591	SPRING, RACK	1					
53	...	129155-51600	SHIM PACK	3					
54	X	129155-51610	SHIM T=1.0	3					

** CONTINUE **

Y115158

12.FUEL INJECTION PUMP

1A14
(1A01)
Y00V5210

(12) FUEL INJECTION PUMP

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

98.06.25

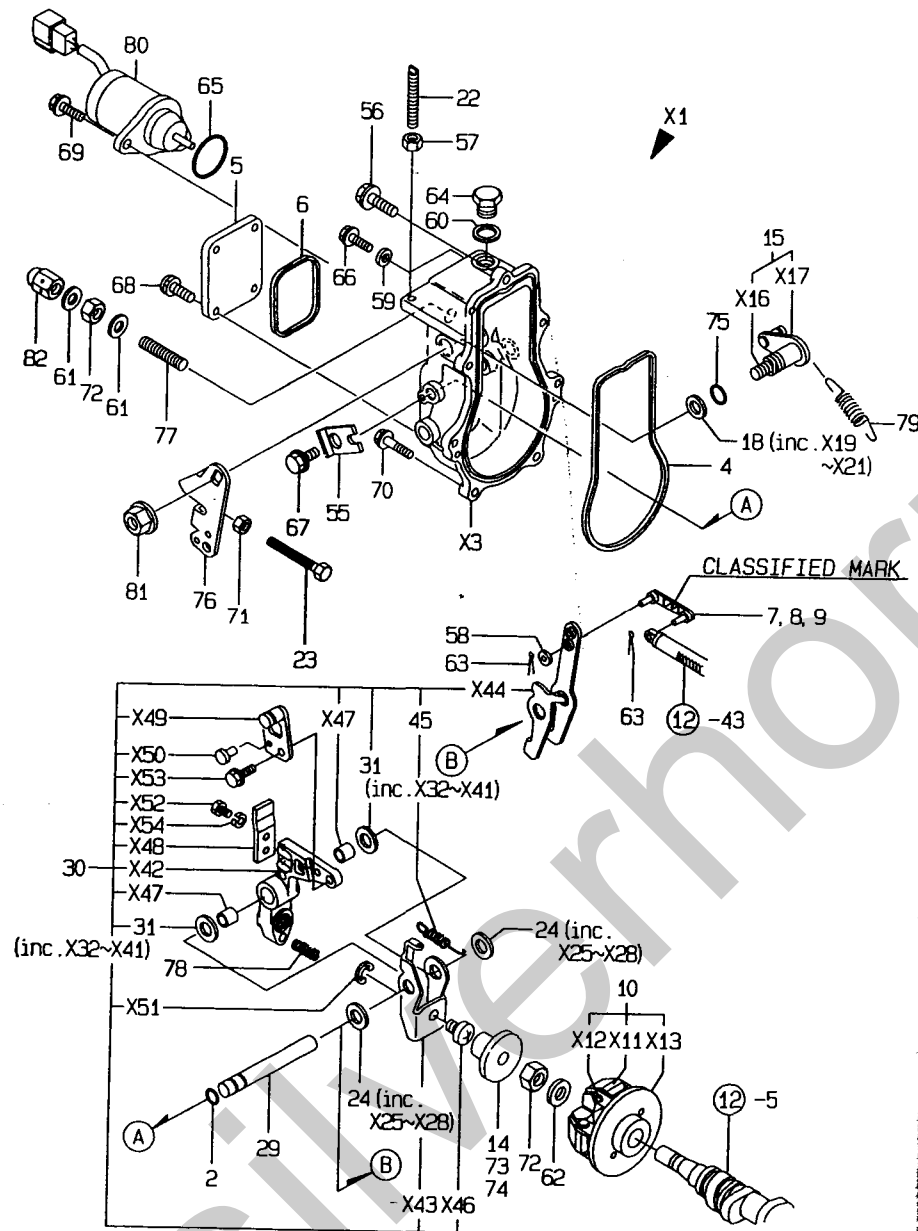
REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I P U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
55	X	129155-51620	SHIM T=1.1	3						
56	X	129155-51630	SHIM T=1.2	3						
57	X	129155-51640	SHIM T=1.3	3						
58	X	129155-51650	SHIM T=1.4	3						
59	X	129155-51660	SHIM T=1.5	3						
60	X	129155-51670	SHIM T=1.6	3						
61	X	129156-51710	SHIM T=1.05	3						
62	X	129156-51720	SHIM T=1.15	3						
63	X	129156-51730	SHIM T=1.25	3						
64	X	129156-51740	SHIM T=1.35	3						
65	X	129156-51750	SHIM T=1.45	3						
66	X	129156-51760	SHIM T=1.55	3						
67	X	129156-51770	SHIM T=1.65	3						
68	X	129157-51810	SHIM T=0.8	3						
69	X	129157-51820	SHIM T=0.85	3						
70	X	129157-51830	SHIM T=0.9	3						
71	X	129157-51840	SHIM T=0.95	3						
72	...	129155-51700	COVER, LOWER	1						
73	...	129155-51710	GASKET, LOWER COVER	1						
74	...	129155-51750	COVER, SIDE	1						
75	...	129155-51760	GASKET, SIDE COVER	1						
76	...	129155-51790	LOCKING, RACK	1						
77	...	129156-51910	LABEL, CAUTION	1						
78	...	129155-51930	SPACER T=3.25	1						
79	...	129155-51940	SPACER T=1.5	1						
80	...	22217-050000	SPRING WASHER 5	2						
81	...	22217-060000	SPRING WASHER 6	2						
82	...	22351-050010	SPRING PIN 5X10	2						
83	...	24101-063034	BALL BEARING	1						
84	...	24341-000160	O-RING 1A S-16.0	1						
85	...	26022-050102	SCREW M 5X 10	8						
86	...	26022-060162	SCREW M 6X 16	4						
87	...	26116-050302	BOLT M 5X 30 PLATED	2						
88	...	26716-060002	NUT 6	2						
89	...	22190-160002	SEAL WASHER 16S	1						
90	.. X	129209-51920	LABEL, ENGINE MODEL	1						
91	.. X	129100-52000	FEED PUMP ASSY	1						
92	...	129155-52050	GASKET	1						
93	...	129100-52100	PUMP ASSY, FUEL FEED	1						
94	.. X	119120-61000	GOVERNOR ASSY	1						

REMARKS

(1) GOVERNOR ASSY (FIG.13) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

Y115158

13. GOVERNOR



X-MARK PARTS: NOT SOLD SEPARATELY.

(13) GOVERNOR

98.06.25

1A15
(1A01)
Y00V5210

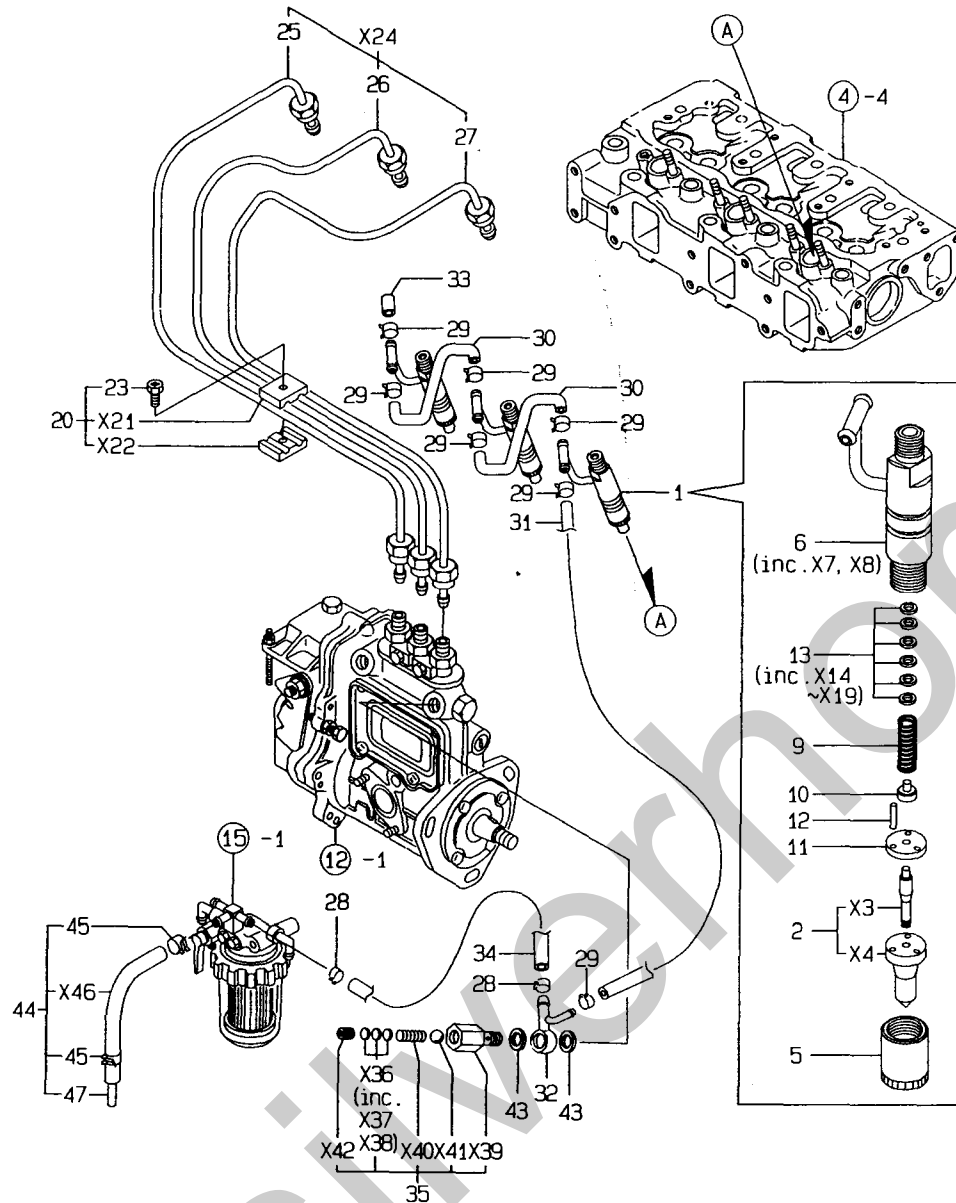
(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY	I	P	U	A	R
				(A) (B) (C) (D) (E) (F)					
1	..	X 119120-61000	GOVERNOR ASSY	1					
2	...	129155-51280	O-RING S6	1					
3	...	X 129052-61010	CASE, GOVERNOR	1					
4	...	129052-61050	PACKING	1					
5	...	129052-61060	COVER	1					
6	...	129052-61070	PACKING	1					
7	...	129155-61120	LINK L=30(MARK 0)	1					(1)
8	...	129155-61130	LINK L=31(MARK 1)	1					(1)
9	...	129155-61140	LINK L=30.5(MARK 05)	1					(1)
10	...	171488-61200	WEIGHT ASSY, GOV.	1					
11	X	129155-61211	WEIGHT	4					
12	X	129155-61221	PIN, GOVERNOR WEIGHT	4					
13	X	171488-61290	BRACKET, WEIGHT	1					
14	...	129155-61341	SLEEVE	1					(2)
15	...	129100-61400	SHAFT ASSY, CONTROL	1					
16	X	129155-61410	SHAFT	1					
17	X	129100-61420	HOOKE	1					
18	...	129155-61430	SPACER, SHAFT	1					
19	X	129156-61430	SPACER T=1.6	1					
20	X	129156-61440	SPACER T=2.0	1					
21	X	129156-61450	SPACER T=2.3	1					
22	...	129155-61450	BOLT, REVOL. LIMIT	1					
23	...	129155-61460	BOLT, IDLE LIMIT	1					
24	...	129155-61480	SPACER ASSY	2					
25	X	129156-61460	SPACER T=0.6, G LEVER	2					
26	X	129156-61470	SPACER T=0.7, G LEVER	2					
27	X	129156-61480	SPACER T=1.2, G LEVER	2					
28	X	129156-61490	SPACER T=0.8, G LEVER	2					
29	...	129052-61390	SHAFT, GOV. LEVER	1					
30	...	129412-61500	LEVER ASSY, GOVERNOR	1					
31		174307-51700	SHIM SET	2					
32	X	174307-51710	SHIM 0.1MM	2					
33	X	174307-51720	SHIM 0.2MM	2					
34	X	174307-51730	SHIM 0.3MM	2					
35	X	174307-51740	SHIM 0.15MM	2					
36	X	174307-51750	SHIM 0.05MM	2					
37	X	174307-51760	SHIM 0.25MM	2					
38	X	174307-51770	SHIM 0.35MM	2					
39	X	174307-51780	SHIM 0.40MM	2					
40	X	174307-51790	SHIM 0.45MM	2					
41	X	174307-51800	SHIM 0.50MM	2					
42	X	129052-61510	LEVER	1					
43	X	119843-61520	LEVER A, GOVERNOR	1					
44	X	129052-61530	LEVER (B)	1					
45		119843-61540	SPRING	1					
46	X	129155-61540	SHIFTER	1					
47	X	119843-61550	BUSH	2					
48	X	129052-61590	RETAINER	1					
49	X	129100-61910	HOOKE	1					
50	X	129100-61920	PIN	1					
51	X	22272-000040	CIRCLIP E- 4	1					
52	X	26116-050102	BOLT M 5X 10 PLATED	2					
53	X	26106-060102	BOLT M 6X 10 PLATED	1					
54	X	22217-050000	SPRING WASHER 5	2					

** CONTINUE **

Y115159

14. FUEL INJECTION VALVE



x-MARK PARTS: NOT SOLD SEPARATELY.

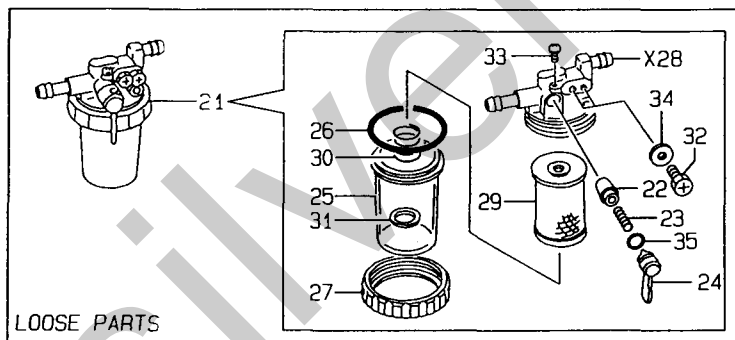
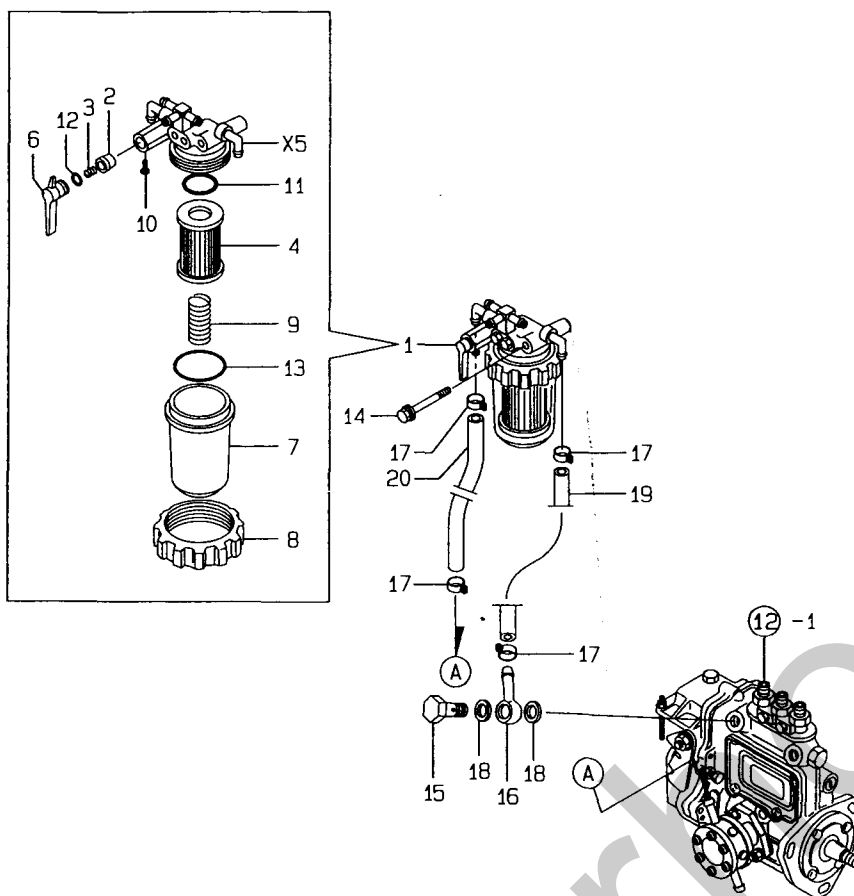
98.06.25

(14) FUEL INJECTION VALVE

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY	I	P	U	A	R
				(A) (B) (C) (D) (E) (F)					
1	..	719810-53100	VALVE ASSY, F.INJECT	3					
2	..	119810-53000	NOZZLE ASSY, F.INJECT	3					
3	... X	114150-53010	VALVE	3					
4	... X	119810-53040	BODY	3					
5	..	114250-53080	NUT, NOZZLE CASE	3					
6	..	129100-53100	HOLDER ASSY, NOZZLE	3					
7	... X	129100-53110	BODY, NOZZLE HOLDER	3					
8	... X	129100-53120	PIPE, FUEL RETURN	3					
9	..	114250-53120	SPRING, NOZZLE	3					
10	..	114250-53130	SEAT, NOZZLE SPRING	3					
11	..	114250-53140	PLATE, STOP	3					
12	..	114250-53210	PIN	6					
13	..	114250-53400	SHIM PACK	3					
14	... X	114250-53410	SHIM 0.4T	3					
15	... X	114250-53420	SHIM 0.5T	3					
16	... X	114250-53430	SHIM 0.6T	3					
17	... X	114250-53440	SHIM 0.7T	3					
18	... X	114250-53450	SHIM 0.8T	3					
19	... X	114250-53460	SHIM 0.15T	3					
20	..	119305-59120	RETAINER	2					
21	.. X	119305-59100	RETAINER	2					
22	.. X	119305-59110	RETAINER	2					
23	..	129150-59131	BOLT M4X14, HEX.SCKT.	2					
24	.. X	129002-59801	PIPE ASSY(NO.1-3)	1					
25	..	129002-59810	PIPE, FUEL INJECTION	1					
26	..	129002-59820	PIPE, FUEL INJECTION	1					
27	..	129002-59831	PIPE, FUEL INJECTION	1					
28	..	124766-59050	CLAMP 12	2					
29	..	124066-59100	CLAMP 8	7					
30	..	121250-59550	PIPE, FUEL	2					
31	..	119840-59560	PIPE, FUEL RETURN	1					
32	..	119840-59570	JOINT	1					
33	..	129150-59580	CAP	1					
34	..	105025-59750	PIPE, FUEL OIL	1					
35	..	129100-59951	VALVE ASSY, CHECK	1					
36	.. X	129100-59850	SHIM SET	1					
37	... X	129100-59860	SHIM T=0.5	2					
38	... X	129100-59870	SHIM T=1.0	1					
39	... X	129100-59961	BODY, CHECK VALVE	1					
40	.. X	129100-59970	SPRING	1					
41	.. X	24190-080001	BALL 1/4, STEEL	1					
42	.. X	27241-100000	PLUG 10	1					
43	..	23414-120000	GASKET 12, ROUND	2					
44	..	119840-59601	BEND ASSY	1					
45	..	124766-59050	CLAMP 12	2					
46	.. X	119840-59611	BEND, RETURN	1					
47	..	119840-59621	JOINT	1					

15. FUEL LINE



x-MARK PARTS: NOT SOLD SEPARATELY.

98.06.25

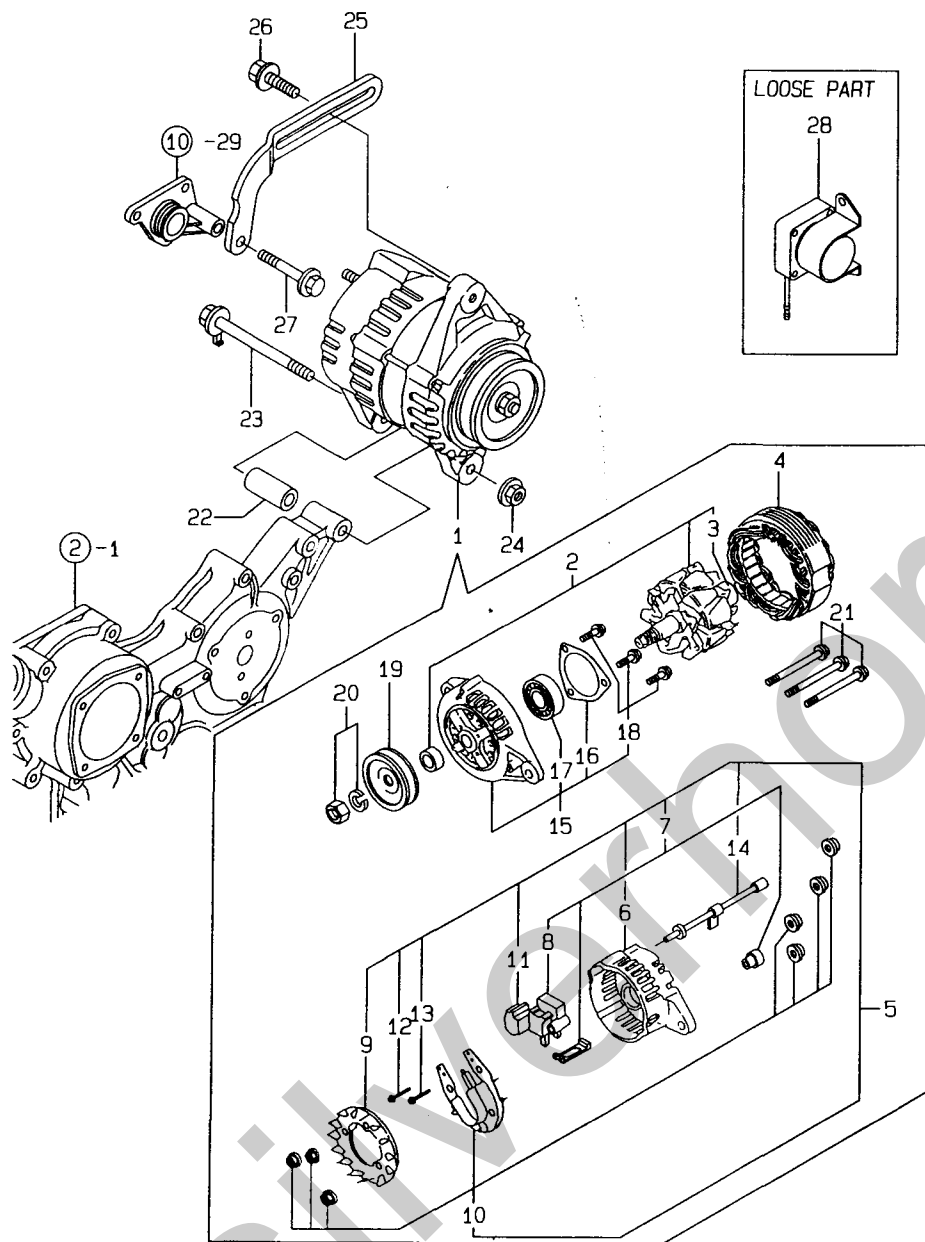
1802
(1A01)
Y00V5210

(15) FUEL LINE

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I	P/U	A	R
				(A)	(B)	(C)	(D)	(E)	(F)				
1	.	129052-55620	STRAINER ASSY, FUEL	1									
2	..	104200-55321	VALVE, TAPER	1									
3	..	104200-55330	SPRING, TAPER VALVE	1									
4	..	129100-55650	ELEMENT, FUEL	1									
5	..	X 129100-55661	BODY, STRAINER	1									
6	..	129100-55670	LEVER	1									
7	..	129100-55680	CUP, STRAINER	1									
8	..	129100-55690	RING, RETAINING	1									
9	..	129100-55700	SPRING	1									
10	..	104200-55750	SCREW M 4	1									
11	..	24311-000160	O-RING 1A P-16.0	1									
12	..	24311-240100	O-RING 1A P-10A	1									
13	..	24321-000650	O-RING 1A G-65.0	1									
14	.	26014-080702	BOLT W/WASHER M8X 70	1									
15	.	103854-39140	BOLT, PIPE JOINT	1									
16	.	101304-59020	JOINT 12, PIPE	1									
17	.	124766-59050	CLAMP 12	4									
18	.	22190-120002	SEAL WASHER 12	2									
19	.	129150-59511	PIPE, FUEL OIL	1									
20	.	105025-59750	PIPE, FUEL OIL	1									
21	.	121850-55800	SEPARATOR ASSY, WATER	1									
22	..	104200-55321	VALVE, TAPER	1									
23	..	104200-55330	SPRING, TAPER VALVE	1									
24	..	104200-55341	HANDLE, COCK	1									
25	..	121254-55510	CUP, STRAINER	1									
26	..	102103-55520	O-RING	1									
27	..	110250-55610	RING, RETAINING	1									
28	..	X 121250-55630	BODY	1									
29	..	121850-55710	SCREEN	1									
30	..	121257-55720	SPRING, SCREEN	1									
31	..	121257-55731	FLOAT	1									
32	..	101720-55750	PLUG 6	2									
33	..	104200-55750	SCREW M 4	1									
34	..	23418-060000	GASKET 6, NYLON	2									
35	..	24311-240100	O-RING 1A P-10A	1									

17. GENERATOR

1804
(1A01)
Y00V5210

(17) GENERATOR

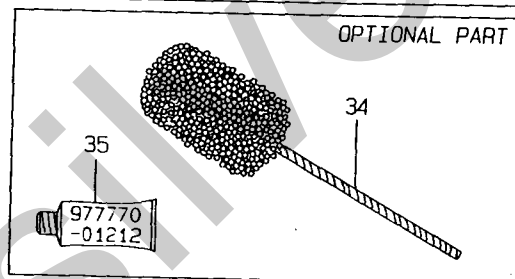
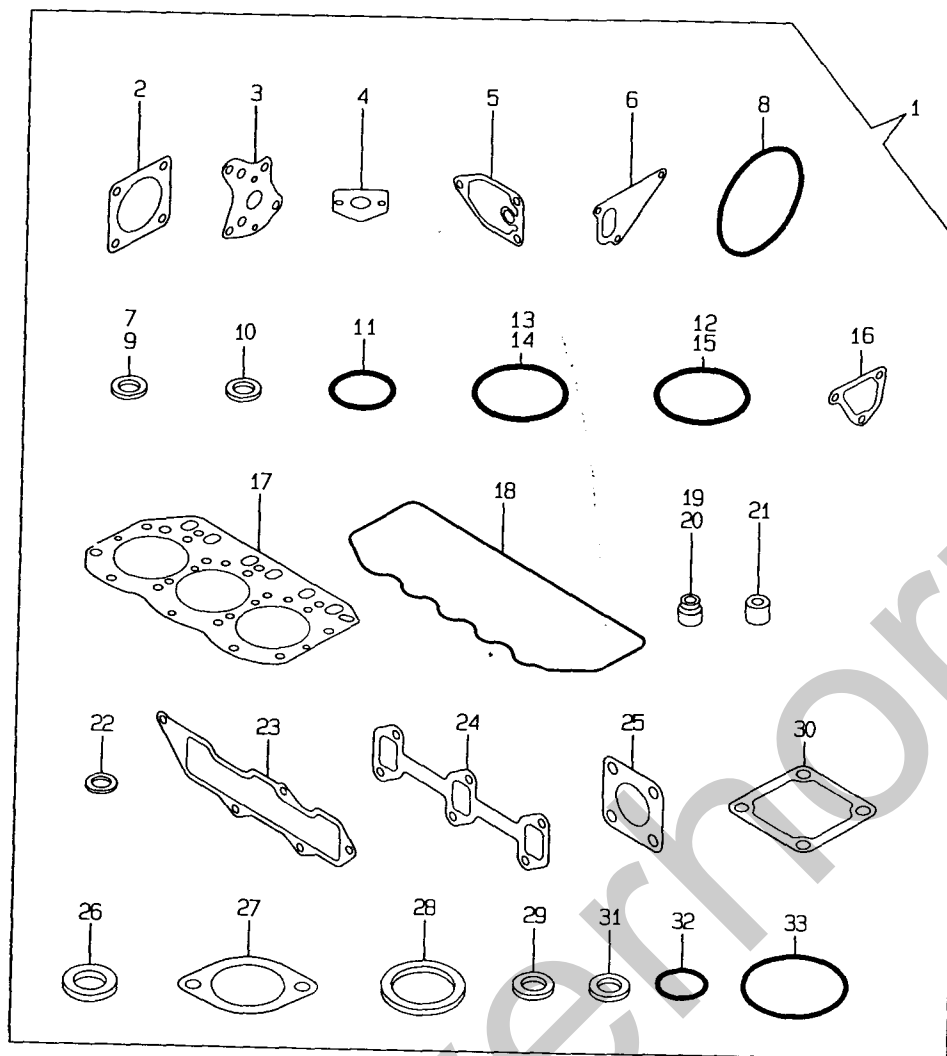
98.06.25

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I	P/U	A	R
				(A)	(B)	(C)	(D)	(E)	(F)				
1	.	119836-77200	GENERATOR	1									
2	..	119836-77700	ROTOR ASSY	1									
3	...	119836-77850	BALL BEARING	1									
4	..	119836-77710	STARTER ASSY	1									
5	..	119836-77721	COVER ASSY, REAR	1									
6	...	119836-77730	COVER, REAR	1									
7	...	119836-77741	BRUSH ASSY, REGULATOR	1									
8		119836-77750	BRUSH ASSY	1									
9	...	119836-77760	GUIDE, FAN SIDE	1									
10	...	119836-77770	DIODE ASSY	1									
11	...	119836-77780	CONDENSER	1									
12	...	119836-77871	BOLT (1)	1									
13	...	119836-77880	BOLT (2)	1									
14	...	119836-77890	WIRE ASSY, LEAD	1									
15	..	119836-77790	COVER ASSY, FRONT	1									
16	...	119836-77800	RETAINER, BEARING	1									
17	...	119836-77840	BALL BEARING	1									
18	...	119836-77860	SCREW KID	1									
19	..	119836-77810	PULLEY	1									
20	..	119836-77820	NUT ASSY, PULLEY	1									
21	..	119836-77830	BOLT, THROUGH	1									
22	.	119820-77340	SPACER	1									
23	.	129136-77250	BOLT M 8X105	1									
23-1	.	129136-77251	BOLT M 8X110	1								N	
(A=E16320)													
24	.	26366-080002	NUT M 8	1									
25	.	129100-77320	ADJUSTER, V-BELT	1									
26	.	26014-080252	BOLT M 8X 25	1									
26-1	.	119810-77340	BOLT	1								N	
(A=E16320)													
27	.	26106-080502	BOLT M 8X 50 PLATED	1									
28	.	129100-77910	RELAY, MAGNETIC	1									

18. GASKET SET

98.06.25



1805 |
(1A01) |
100V5210

(18) GASKET SET

(A)=3TNE88-PG (D)=
(B)= (E)=
(C)= (F)=

REF. NO.	LEV. 0	PART NO.	DESCRIPTION	Q'TY						I P/U A R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	.	729030-92650	GASKET SET (NON-ASB.)	1						(1)
2	..	124240-01883	GASKET, (NON-ASB.)	1						
3	..	129150-32020	GASKET, L.O. PUMP	1						
4	..	129150-35041	GASKET, (NON-ASB.)	1						
5	..	129150-35111	GASKET, (NON-ASB.)	1						
6	..	129100-42020	GASKET, C.W. PUMP	1						
7	..	22190-080002	SEAL WASHER 8S	5						
8	..	121850-51960	O-RING, F.I. PUMP	1						
9	..	23414-080000	GASKET 8, ROUND	2						
10	..	23414-100000	GASKET 10, ROUND	2						
11	..	24311-000160	O-RING 1A P-16.0	3						
12	..	24341-000500	O-RING 1A S-50.0	1						
13	..	24341-000240	O-RING 1A S-24.0	1						
14	..	24341-000250	O-RING 1A S-25.0	1						
15	..	24311-000320	O-RING 1A P-32.0	2						
16	..	129100-49840	GASKET, THERMO. CASE	1						
17	..	129001-01340	GASKET, (NON-ASB.)	1						
18	..	129150-11310	GASKET, BONNET	1						
19	..	121400-11340	SEAL, VALVE STEM	3						
20	..	124460-11340	SEAL, VALVE STEM	3						
21	..	119625-11870	PROTECTOR, NOZZLE	3						
22	..	119625-11880	SEAT, NOZZLE	3						
23	..	129001-12110	GASKET, INT. MANIFOLD	1						
24	..	129150-13110	GASKET, EXH. MANIFOLD	1						
25	..	124701-11911	GASKET, (NON-ASB.)	1						
26	..	124465-44950	GASKET 16	2						
27	..	129795-49551	GASKET, (NON-ASB.)	1						
28	..	129150-49811	GASKET, (NON-ASB.)	1						
29	..	22190-120002	SEAL WASHER 12	2						
30	..	129150-77511	GASKET, (NON-ASB.)	1						
31	..	23414-120000	GASKET 12, ROUND	2						
32	..	24311-000120	O-RING 1A P 12.0	3						
33	..	24321-000300	O-RING G30	1						
34	.	129400-92420	FLEX HORN	1						(1)
35	.	977770-01212	GASKET, LIQUID	1						(1)

REMARKS

(1) OPTIONAL PART.

Y115164