

0CV10-M75800EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE78A - BME engine manufactured since May, 2000.
2. Each illustration corresponds to the parts list on the following page.
3. When ordering parts, clearly write down the engine model and serial number, as well as the name and number of each part in your order sheet. This will help insure reliable delivery of the parts you have ordered.

Directions for the Parts Catalog.

1. This Parts Catalog shows both standard and optional parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)										
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1		1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1	N	1
		(A=E00185) (B=E00200)								
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9		
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4	K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)								
4	2	129470-51040	CAMSHAFT	1	1	1	1	1		
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2		
6	2	129470-51060	RETAINER	1	1	1	1	1		

Remarks

(1) BOOST COMPEMSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks

Figures or alphabets (symbols) are entered in the remarks column.

The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

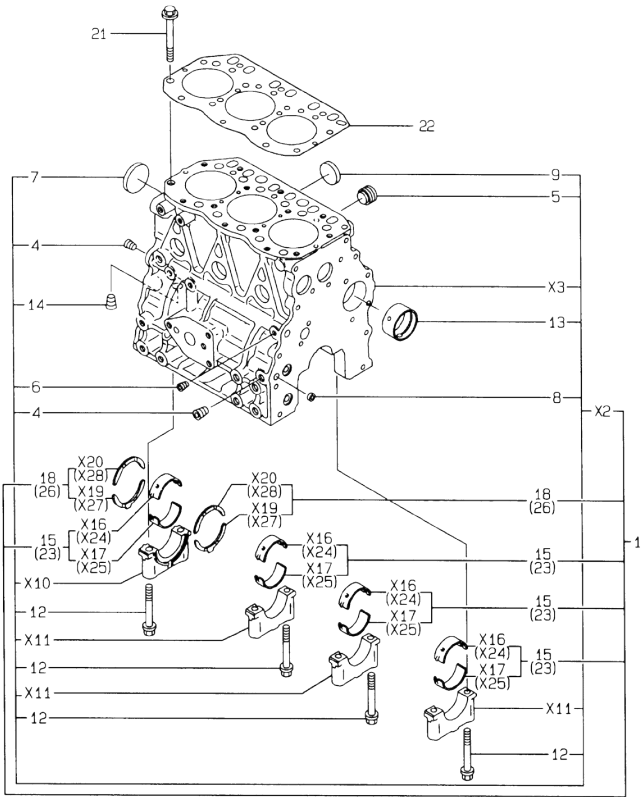
Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78A-BME			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
13.	FUEL INJECTION VALVE		
14.	STARTING MOTOR		
15.	GENERATOR		
16.	GASKET SET		

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Fig.1. CYLINDER BLOCK

1. CYLINDER BLOCK

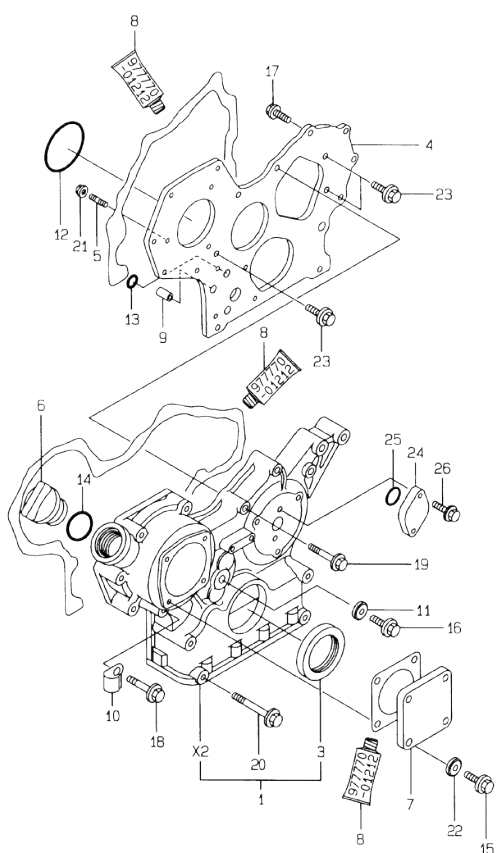


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-01560	BLOCK ASSY, CYLINDER	1							
4	3	124160-01910	PLUG, PT1/4	2							
5	3	171051-01921	PLUG, NPTF1	1							
6	3	23876-010000	PLUG, R01	1							
7	3	129001-01250	PLUG, 50	1							
8	3	27241-120000	PLUG, 12	2							
9	3	27241-300000	PLUG 30	6							
12	3	119620-02020	BOLT, METAL CAP	8							
13	3	129795-02411	BUSH, CAMSHAFT	1							
14	3	124160-01910	PLUG, PT1/4	1							
15	2	119810-02800	BEARING, MAIN	4							
18	2	119810-02930	BEARING, THRUST	1							
21	1	119810-01200	BOLT, HEAD	14							
22	1	119818-01330	GASKET, HEAD	1							
23	1	119810-02870	BEARING, 0.25 US	4							1
26	1	119810-02940	BEARING, THRUST 0.25	2							2

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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2. GEAR HOUSING

Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	719810-01500	CASE ASSY, GEAR	1						
3	2	129795-01800	SEAL, OIL	1						
4	1	129400-01520	FLANGE, GEAR CASE	1						
5	1	121450-01560	STUD, M8X22	3						
6	1	124160-01751	COVER, FILLER	1						
7	1	124240-01871	COVER	1						
8	1	977770-01212	GASKET, LIQUID	1						1
9	1	129795-01950	PIPE, KNOCK L=18	2						
10	1	129150-03100	RETAINER, PIPE	1						
11	1	22190-080002	WASHER, SEAL 6	1						
12	1	121850-51960	O-RING	1						
13	1	24311-000160	O-RING, 1AP16.0	2						
14	1	24311-000320	O-RING, 1AP32.0	1						
15	1	26106-080122	BOLT, M8X 12 PLATED	4						
16	1	26106-080162	BOLT, M8X 16 PLATED	1						
17	1	26106-080202	BOLT, M8X 20 PLATED	2						
18	1	26106-080452	BOLT, M8X 45 PLATED	6						
19	1	26106-080552	BOLT, M8X 55 PLATED	3						
20	1	129001-91841	BOLT, M8X85	4						
21	1	26366-080002	NUT, M8	3						
22	1	22190-080002	WASHER, SEAL 6	4						
23	1	26106-080162	BOLT, M8X 16 PLATED	3						
24	1	121023-01550	COVER	1						
25	1	24341-000240	O-RING, 1AS24.0	1						
26	1	26106-060162	BOLT, M6X 16 PLATED	2						

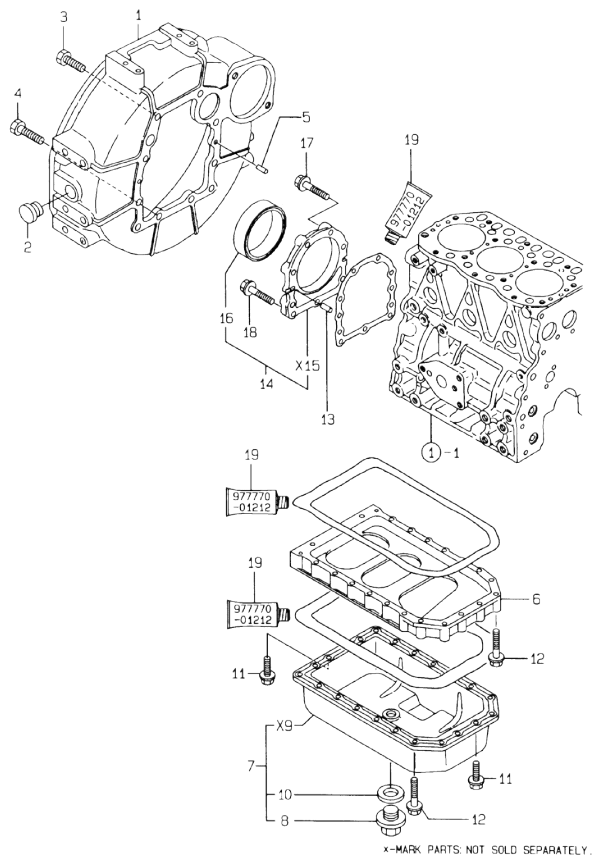
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.3. FLYWHEEL HOUSING & OIL SUMP

3.FLYWHEEL HOUSING & OIL SUMP



x-MARK: PARTS NOT SOLD SEPARATELY.

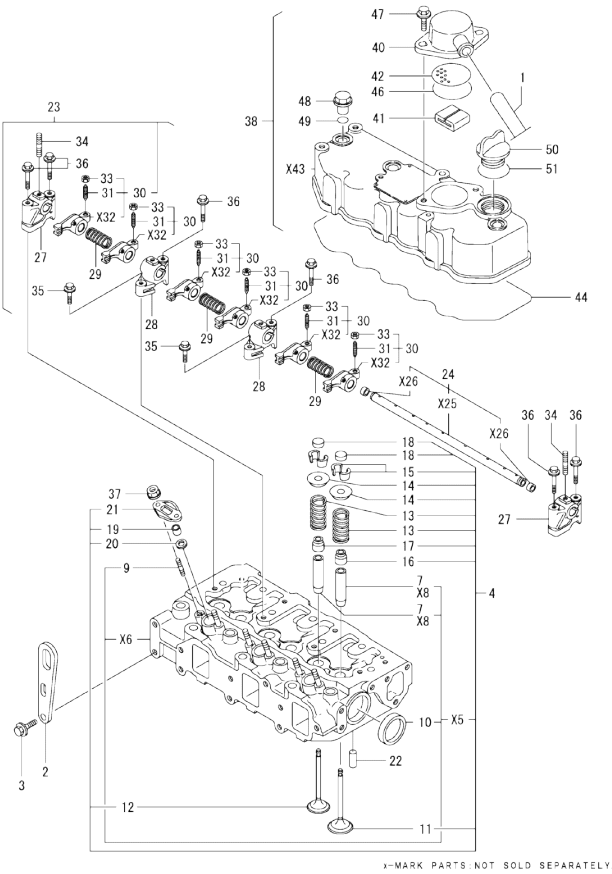
Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-01600	HOUSING, FLYWHEEL	1							
2	1	119620-01750	CAP	1							
3	1	26206-100252	BOLT, M10X 25 PLATED	6							
4	1	26206-100302	BOLT, M10X 30 PLATED	4							
5	1	129100-01580	PIN, M8X16	2							
6	1	119810-01730	SPACER, OIL SUMP	1							
7	1	119810-01790	SUMP ASSY, OIL	1							
8	2	119640-01640	PLUG, DRAIN M22	1							
10	2	22190-220002	WASHER, SEAL 22	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	6							
12	1	26106-080452	BOLT, M8X 45 PLATED	22							
13	1	129100-01580	PIN, M8X16	2							
14	1	719810-01650	CASE ASSY, OIL SEAL	1							
16	2	119810-01780	SEAL, 769310	1							
17	1	129486-01670	BOLT, M8X30	6							
18	1	26106-080352	BOLT, M8X 35 PLATED	3							
19	1	977770-01212	GASKET, LIQUID	1							1

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{R10}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{R10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.4. CYLINDER HEAD & BONNET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171350-03090	PIPE , BREATHER 900	1							
2	1	124736-07900	LIFTER	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	2							
4	1	119812-11700	HEAD ASSY, CYLINDER	1							1
7	3	124060-11800	GUIDE, VALVE	6							
9	3	26216-060302	STUD, M6X 30	6							
10	3	27241-400000	PLUG, 40	2							
11	2	119810-11100	VALVE, INTAKE	3							
12	2	119810-11110	VALVE, EXHAUST	3							
13	2	119810-11120	SPRING, VALVE	6							
14	2	104211-11180	RETAINER, SPRING	6							
15	2	27310-070001	COTTER, 7	6							
16	2	124160-11340	SEAL, VALVE STEM	3							
17	2	124950-11340	SEAL, VALVE STEM	3							
18	2	104211-11370	CAP, VALVE	6							
19	2	119625-11870	PROTECTOR, NOZZLE	3							
20	2	119625-11880	SEAT, NOZZLE	3							
21	2	119625-11900	RETAINER, NOZZLE	3							
22	1	22351-060012	PIN, SPRING 6.0X12	2							
23	1	119865-11210	SUPPORT ASSY	1							
24	2	119810-11240	SHAFT ASSY, ROCKER	1							
27	2	129155-11260	SUPPORT, ROCKER ARM	2							
28	2	129155-11270	SUPPORT, ROCKER ARM	2							
29	2	129150-11280	SPRING	3							
30	2	719810-11660	ARM ASSY, ROCKER	6							
31	3	129150-11230	SCREW, VALVE ADJUST	6							
33	3	129150-11750	NUT, M8	6							
34	2	26226-080182	STUD, M8X 18	3							
35	1	26106-080252	BOLT, M8X 25 PLATED	2							
36	1	26106-080502	BOLT, M8X 50 PLATED	6							
37	1	26366-060002	NUT, M6	6							
38	1	719810-11521	BONNET ASSY, HEAD	1							
40	2	129150-03020	COVER, BREATHER	1							
41	2	129150-03070	BAFFLE, BREATHER	1							
42	2	129150-03080	PLATE, BAFFLE	1							
44	2	119865-11310	GASKET, BONNET	1							
46	2	24341-000500	O-RING, 1AS50.0	1							
47	2	26106-080162	BOLT, M8X 16 PLATED	2							
48	1	124160-11360	KNOB	3							
49	1	24311-000120	O-RING, 1AP12.0	3							
50	1	124160-01751	COVER, FILLER	1							
51	1	24311-000320	O-RING, 1AP32.0	1							

Remarks

(1) REPAIR PART.

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD & AIR CLEANER

Exploded view diagram of the engine assembly. The diagram shows the following components and their labels:

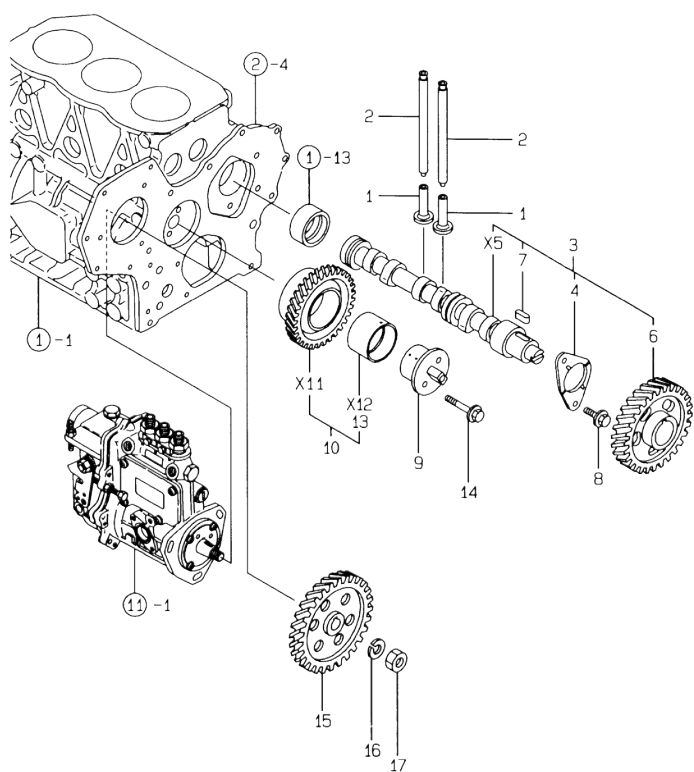
- 1**: Main engine block/cylinder head assembly.
- 2**: Gasket or seal between the main block and the base.
- 3**: Bolt for the base gasket.
- 4**: Four mounting brackets or supports for the main block.
- 5**: Bolt for the mounting bracket.
- 6**: Mounting bracket for the main block.
- 7**: Long shaft or rod passing through the main block.
- 8**: Nut for the shaft.
- 9**: Piston or connecting rod assembly.
- 10**: Piston pin or connecting pin.
- 11**: Piston pin or connecting pin.
- 12**: Lever or linkage arm.
- 13**: Lever or linkage arm.
- 14**: Lever or linkage arm.
- 15**: Lever or linkage arm.

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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-13100	MANIFOLD, EXHAUST	1							
2	1	119813-13110	GASKET	1							
3	1	26106-080602	BOLT, M8X 60 PLATED	4							
4	1	119131-18320	STUD, M8X22	4							
5	1	124701-11911	GASKET, SILENCER	1							
6	1	26366-080002	NUT, M8	2							
7	1	26216-080602	STUD, M8X 60	2							

N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

7. CAMSHAFT & DRIVING GEAR



Remarks
(1) REPAIR PART.

				(A)=3TNE78A-BME (B)= (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	ROD, PUSH	6							
3	1	119810-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	129100-25061	SHAFT, IDLE	1							
10	1	129150-25101	GEAR ASSY, IDLE	1							
13	2	129150-25920	BUSH, IDLE GEAR	1							
14	1	26106-080452	BOLT, M8X 45 PLATED	2							
15	1	129150-25900	GEAR, PUMP	1							
16	1	22217-120000	WASHER, SPRING 12	1							
17	1	26716-120002	NUT, M12	1							

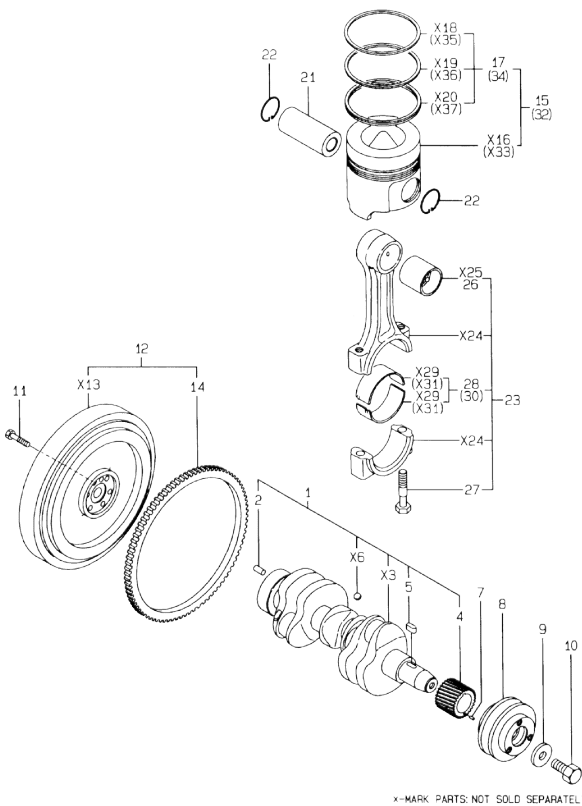
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.8. CRANKSHAFT & PISTON

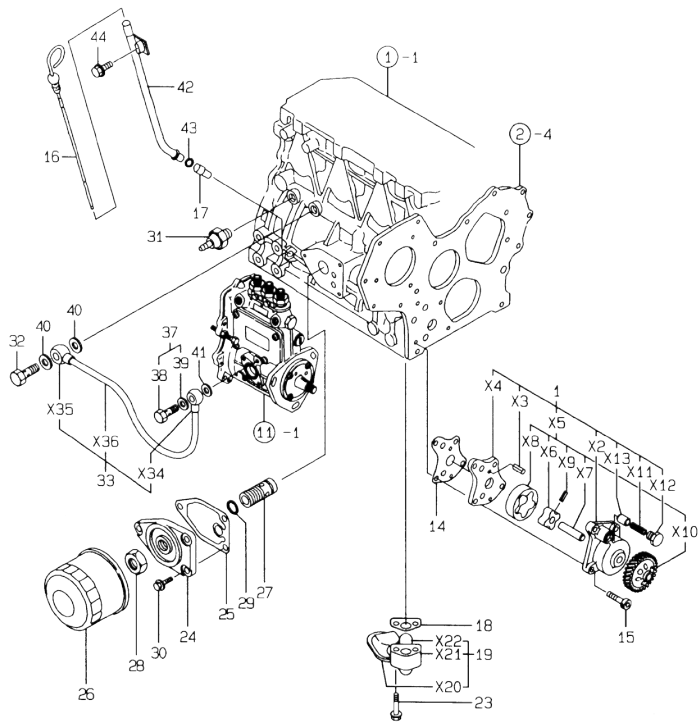
B.CRANKSHAFT & PISTON



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119813-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	129150-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-040010	PIN, SPRING 4.0X10	1							
8	1	171301-21650	V-PULLEY	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	119888-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	119818-22080	PISTON ASSY	3							
17	2	119818-22500	RING SET, PISTON	3							
21	1	119813-22300	PIN, PISTON	3							
22	1	129792-22400	CIRCLIP, 23	6							
23	1	719810-23100	ROD ASSY, CONNECTING	3							
26	2	119810-23910	BEARING, PISTON PIN	3							1
27	2	119810-23200	BOLT, CONNECTING ROD	6							
28	2	119810-23600	BEARING, CRANK PIN	3							
30	1	119810-23610	BEARING, 0.25 US	3							2
32	1	119818-22900	PISTON ASSY, 0.25 OS	3							3
34	2	119818-22950	RING SET, 0.25 OS	3							3

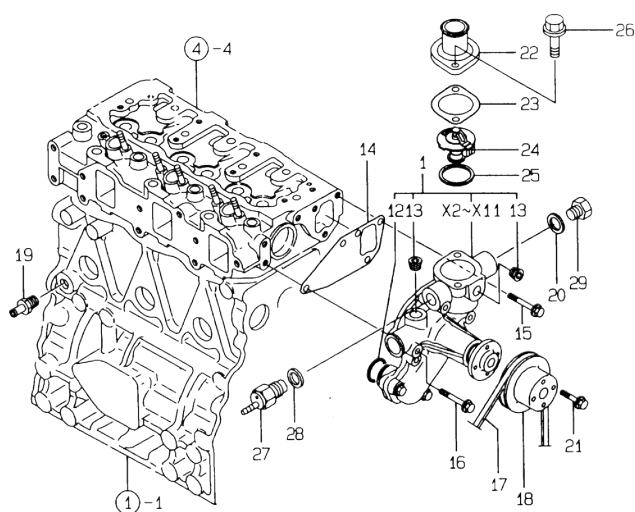
Fig.9. LUB.OIL SYSTEM

9.LUB.OIL SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	129135-34800	DIPSTICK, OIL	1							
17	1	119260-34810	GUIDE, DIPSTICK	1							
18	1	129150-35041	GASKET	1							
19	1	119810-35401	PIPE ASSY, OIL INLET	1							
23	1	26106-080352	BOLT, M8X 35 PLATED	2							
24	1	129150-35101	BRACKET, STRAINER	1							
25	1	129150-35111	GASKET	1							
26	1	129150-35151	FILTER, D80XL80	1							
27	1	129001-35300	BOLT, FILTER	1							
28	1	129150-35350	NUT	1							
29	1	24311-000160	O-RING, 1AP16.0	1							
30	1	26106-080202	BOLT, M8X 20 PLATED	3							
31	1	114250-39450	SWITCH, 0.5KG	1							
32	1	124160-39140	BOLT, PIPE JOINT M10	1							
33	1	119810-39200	PIPE ASSY, OIL	1							
37	1	124550-59830	BOLT ASSY, JOINT M8	1							
38	2	124550-59820	BOLT, PIPE JOINT M8	1							
39	2	22190-080002	WASHER, SEAL 6	1							
40	1	22190-100002	WASHER, SEAL 10	2							
41	1	22190-080002	WASHER, SEAL 6	1							
42	1	119836-34810	GUIDE, DIPSTICK	1							
43	1	24311-240100	O-RING, 1AP10A	1							
44	1	26106-080452	BOLT, M8X 45 PLATED	1							

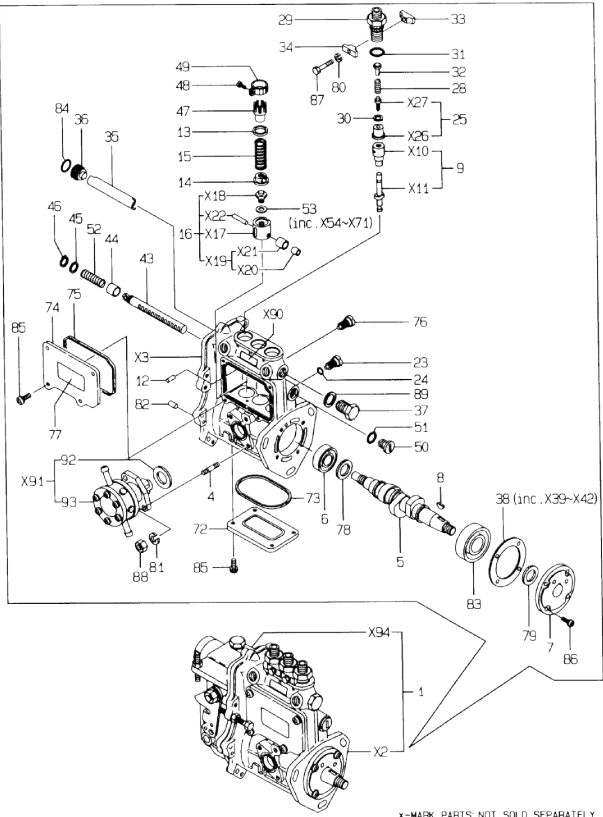
10. COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119810-42001	PUMP ASSY, WATER	1							
12	2	129150-42320	O-RING	1							
13	2	23876-030000	PLUG, R03	2							
14	1	129486-42050	GASKET, WATER PUMP	1							
15	1	26106-080352	BOLT, M8X 35 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	119831-42290	V-BELT, A37.5	1							
18	1	129155-42350	V-PULLEY	1							
19	1	121550-49111	JOINT, PT1/4	1							
20	1	124465-44950	GASKET, 16	1							
21	1	26106-060202	BOLT, M6X 20 PLATED	4							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	129795-49561	GASKET	1							
24	1	129155-49800	THERMOSTAT, 71	1							
25	1	129150-49811	GASKET, THERMOSTAT	1							
26	1	26106-080222	BOLT, M8X 22 PLATED	2							
27	1	121250-44901	SWITCH, 110	1							
28	1	124465-44950	GASKET, 16	1							
29	1	121450-42450	PLUG, M16	1							

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719822-51370	PUMP ASSY, INJECTION	1							1
4	3	129155-51020	STUD	2							
5	3	119810-51040	CAMSHAFT	1							
6	3	129155-51050	BEARING, 17BM001D	1							
7	3	129155-51060	SUPPORT, CAMSHAFT	1							
8	3	122710-51090	KEY	1							
9	3	129108-51100	PLUNGER ASSY	3							
12	3	129155-51140	PIN	3							
13	3	174307-51170	RETAINER, SPRING A	3							
14	3	129155-51180	RETAINER, SPRING	3							
15	3	124950-51190	SPRING, PLUNGER	3							
16	3	129155-51200	TAPPET ASSY	3							
23	3	129155-51270	STOPPER, TAPPET	3							
24	3	129155-51280	O-RING, S6	3							
25	3	129100-51300	VALVE ASSY, DELIVERY	3							
28	3	129155-51320	SPRING, DELIVERY	3							
29	3	129155-51340	RETAINER	3							
30	3	124550-51350	GASKET, DELIVERY	3							
31	3	124550-51370	O-RING	3							
32	3	129155-51370	STOPPER, VALVE	3							
33	3	129155-51380	STOPPER	2							
34	3	129155-51390	STOPPER	2							
35	3	129155-51400	DEFLECTOR	1							
36	3	129155-51410	BOLT	1							
37	3	129155-51420	PLUG, M16	1							
38	3	129155-51450	SHIM SET, ADJUSTING	1							
43	3	129155-51500	RACK, CONTROL	1							
44	3	129155-51521	BUSH, RACK	1							
45	3	129155-51530	SPACER	1							
46	3	129155-51540	CIRCLIP	1							
47	3	129155-51550	PINION, CONTROL	3							
48	3	122117-51560	SCREW	3							
49	3	174307-51560	PINION	3							
50	3	129155-51570	PLUG, M12	1							
51	3	129155-51580	O-RING	1							
52	3	129155-51591	SPRING, RACK	1							
53	3	129155-51600	SHIM SET, ADJUSTING	3							
72	3	129155-51701	COVER	1							
73	3	129155-51710	GASKET	1							
74	3	129155-51751	COVER	1							
75	3	129155-51760	GASKET	1							
76	3	129155-51790	STOOPER, RACK	1							
77	3	129156-51910	LABEL, CAUTION	1							
78	3	129155-51930	SPACER, T=3.25	1							
79	3	129155-51940	SPACER, T=1.5	1							
80	3	22217-050000	WASHER, SPRING 5	2							
81	3	22217-060000	WASHER, SPRING 6	2							
82	3	22351-050010	PIN, SPRING 5.0X10	2							
83	3	24101-063034	BEARING, BALL 6303	1							
84	3	24341-000160	O-RING, 1AS16.0	1							
85	3	26022-050122	SCREW, M5X12	8							

N:Old, N:New, Q:Old, Q:New, R:Old, R:New, S:Old, S:New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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11. FUEL INJECTION PUMP



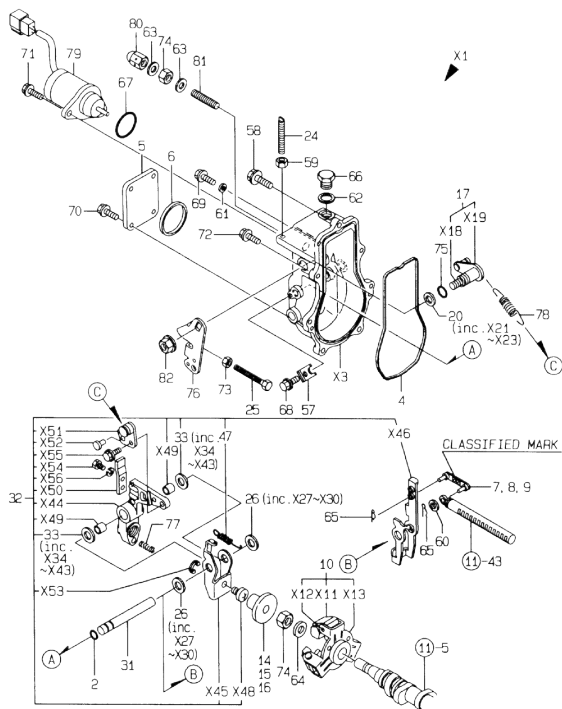
Remarks
(1) GOVERNOR ASSY(FIG.12) IS
INCORPORATED IN THIS FOP.CMP
(REF.NO.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
86	3	26022-060162	SCREW, M6X16	4							
87	3	26116-050302	BOLT, M5X 30 PLATED	2							
88	3	26716-060002	NUT, M6	2							
89	3	22190-160002	WASHER, SEAL 16	1							
92	3	129155-52050	GASKET	1							
93	3	129100-52100	PUMP ASSY, FUEL FEED	1							

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New. Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New. R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New. S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

Fig.12. GOVERNOR

12. GOVERNOR

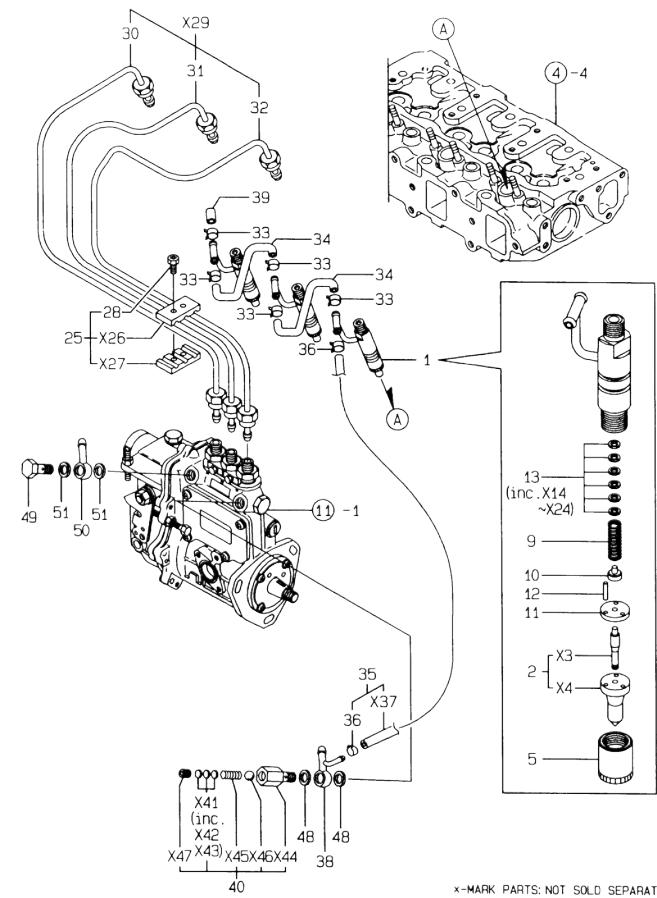


Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) SELECTIVE PARTS.
* THIS FIGURE(GOVERNOR ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.11).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-51280	O-RING, S6	1							
4	2	129052-61050	GASKET	1							
5	2	129052-61060	COVER, GOVERNOR CASE	1							
6	2	129052-61070	GASKET	1							
7	2	129155-61120	LINK, L=30 MARK 0	1							1
8	2	129155-61130	LINK, L=31 MARK 1	1							1
9	2	129155-61140	LINK, L=30.5 MARK 05	1							1
10	2	129155-61202	WEIGHT ASSY,GOVERNOR	1							
14	2	129155-61341	SLEEVE	1							2
15	2	129155-61350	SLEEVE, L=24.9	1							2
16	2	129155-61360	SLEEVE, L=25.2	1							2
17	2	129100-61400	SHAFT ASSY	1							
20	2	129155-61430	SPACER	1							
24	2	129155-61450	BOLT, LIMITER	1							
25	2	129155-61460	BOLT, IDLE	1							
26	2	129155-61480	SPACER ASSY	2							
31	2	129052-61390	SHAFT	1							
32	2	129052-61500	LEVER ASSY, GOVERNOR	1							
33	3	174307-51700	SHIM SET	2							
47	3	129052-61540	SPRING, SET	1							
57	2	119660-61901	RETAINER, SHAFT	1							
58	2	129155-61950	BOLT	1							
59	2	124560-66370	NUT, M6	1							
60	2	22117-040000	WASHER, 4	1							
61	2	22190-060003	SEAL WASER, 6	1							
62	2	22190-100002	WASHER, SEAL 10	1							
63	2	22190-120002	WASHER, SEAL 12	2							
64	2	22287-120000	WASHER, 12	1							
65	2	22372-040000	PIN, SNAP 4	2							
66	2	23887-100002	PLUG, 10	1							
67	2	24341-000280	O-RING, 1AS28.0	1							
67-1	2	158552-61900	O-RING	1							N
(A=EXXXXXX)											
68	2	26106-060102	BOLT, M6X 10 PLATED	1							
69	2	26106-060102	BOLT, M6X 10 PLATED	1							
70	2	26106-060102	BOLT, M6X 10 PLATED	4							
71	2	26106-060142	BOLT, M6X 14 PLATED	2							
72	2	26106-060202	BOLT, M6X 20 PLATED	6							
73	2	26756-060002	NUT, LOCK M6	1							
74	2	26776-120002	NUT, LOCK M12	2							
75	2	129155-61830	O-RING, S10	1							
76	1	129100-61440	LEVER, CONTROL	1							
77	1	129100-61650	SPRING, CONTROLLER	1							
78	1	171353-61700	SPRING, GOVERNOR	1							
79	1	119653-77950	SOLENOID, STOP	1							
80	1	26687-120002	NUT, CAP M12	1							
81	1	129155-61470	BOLT, CONTROL	1							
82	1	26366-080002	NUT, M8	1							

Fig.13. FUEL INJECTION VALVE

13.FUEL INJECTION VALVE

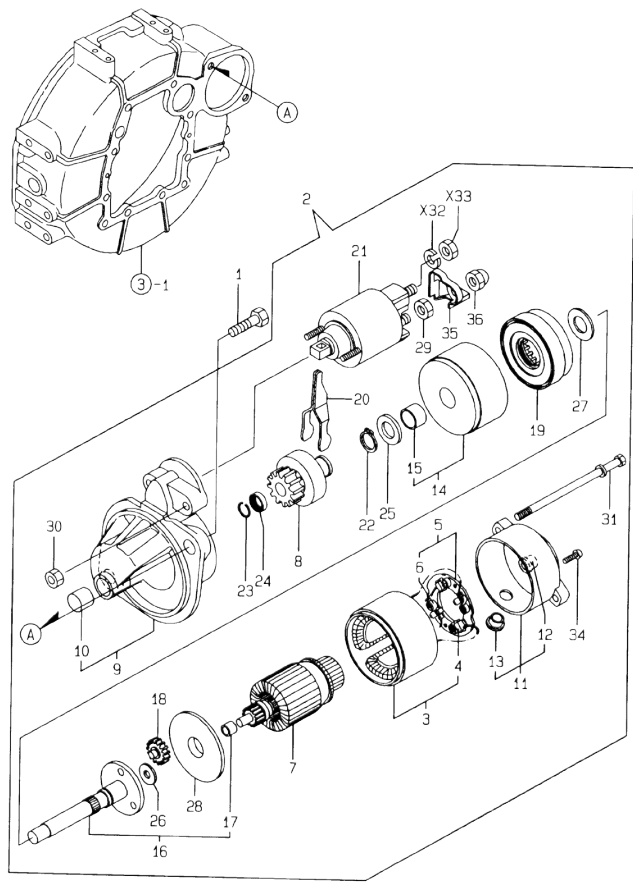


x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729500-53200	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
9	2	114250-53120	SPRING, NOZZLE	3							
10	2	114250-53130	SEAT, SPRING	3							
11	2	114250-53140	PLATE	3							
12	2	114250-53210	PIN	6							
13	2	114250-53400	SHIM SET	3							
25	1	129150-59120	RETAINER, PIPE	1							
28	2	129150-59131	BOLT, M4X14	2							
30	2	119810-59810	PIPE ASSY, INJECTION	1							
31	2	119810-59820	PIPE ASSY, INJECTION	1							
32	2	119810-59830	PIPE ASSY, INJECTION	1							
33	1	124066-59100	CLIP, HOSE 8	5							
34	1	121250-59550	PIPE, FUEL D8X120	2							
35	1	119840-59500	PIPE ASSY, RETURN	1							
36	2	124066-59100	CLIP, HOSE 8	2							
38	1	119840-59570	JOINT	1							
39	1	129150-59580	CAP	1							
40	1	129100-59951	VALVE ASSY, CHECK	1							
48	1	22190-120002	WASHER, SEAL 12	2							
49	1	103854-39140	BOLT, PIPE JOINT	1							
50	1	101304-59020	JOINT, PIPE 12	1							
51	1	22190-120002	WASHER, SEAL 12	2							

Fig.14. STARTING MOTOR

14.STARTING MOTOR



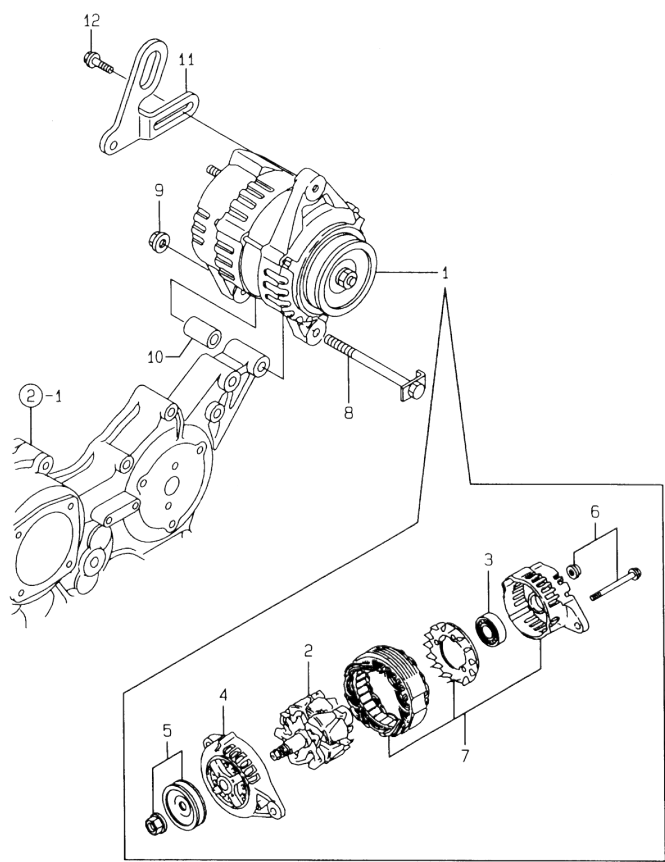
x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26116-120252	BOLT, M12X 25 PLATED	2							
2	1	124520-77012	STARTER, P1.0	1							
3	2	X0281007680	YOKE ASSY	1							
4	3	X0280996180	STARTER KIT	2							
5	2	X0285105190	HOLDER ASSY	1							
6	3	X0285205030	SPRING	4							
7	2	X0282005871	ARMATURE ASSY	1							
8	2	X0283009160	CLUTCH ASSY	1							
9	2	X2284008090	HOUSING ASSY	1							
10	3	X9491050100	BEARING, NEEDLE	1							
11	2	X0285005770	FRAME ASSY	1							
12	3	X9491040990	BEARING	1							
13	3	X0280626010	COVER	1							
14	2	X0284105010	BEARING ASSY	1							
15	3	X9491034330	BEARING	1							
16	2	X0286105050	SHAFT ASSY	1							
17	3	X9491034320	BEARING	1							
18	2	X0286305010	GEAR	3							
19	2	X0286355010	GEAR	1							
20	2	X0287405140	LEVER	1							
21	2	X0534007800	SWITCH ASSY	1							
22	2	X9055715000	RING	1							
23	2	X9490721360	RING	1							
24	2	X0280210331	NUT	1							
25	2	X9490138110	WASHER	1							
26	2	X9490138090	WASHER	1							
27	2	X9490138100	WASHER	1							
28	2	X0284525010	PLATE	1							
29	2	X9490562360	NUT	1							
30	2	X9490560750	NUT	2							
31	2	X9490423520	BOLT, THROUGH	2							
34	2	X9490065670	SCREW, M4X6	2							
35	2	X0280335360	COVER, TERMINAL	1							
36	2	X1289510130	NUT	1							

N:Old $\frac{NBS}{10}$ New, Q:Old $\frac{HQ}{10}$ New, R:Old $\frac{RBS}{10}$ New, S:Old $\frac{HS}{10}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.15. GENERATOR

15. GENERATOR

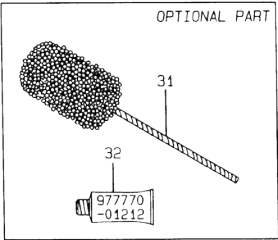
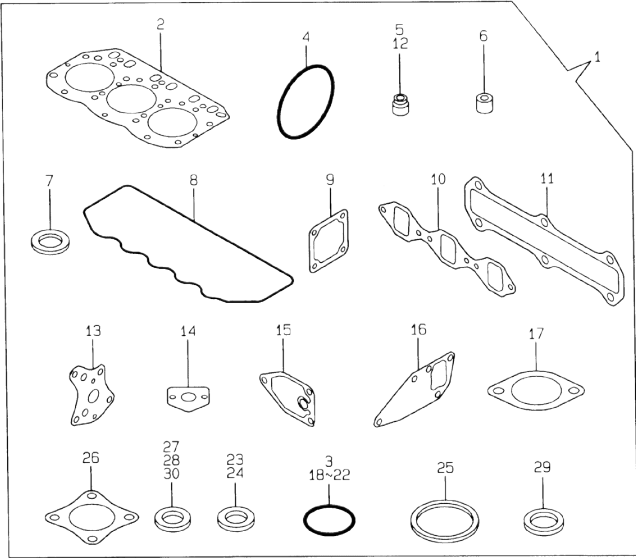


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77201	GENERATOR	1							
2	2	129612-77700	ROTOR ASSY	1							
3	2	129612-77710	BEARING, BALL	1							
4	2	129612-77730	BRACKET ASSY, FILTER	1							
5	2	129612-77740	PULLEY	1							
6	2	129612-77750	SCREW KIT	1							
7	2	119836-77920	BRACKET ASSY	1							
8	1	129136-77251	BOLT, M8X110	1							
9	1	129612-77260	NUT, ALTERNATOR	1							
10	1	119820-77340	PIECE, DISTANCE	1							
11	1	119820-77332	ADJUSTER	1							
12	1	119810-77340	BOLT, ADJUSTER	1							

OCV10-M75800

Fig.16. GASKET SET

16.GASKET SET



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719818-92680	GASKET SET	1							1
2	2	119818-01330	GASKET, HEAD	1							
3	2	24311-240100	O-RING, 1AP10A	1							
4	2	121850-51960	O-RING	1							
5	2	124160-11340	SEAL, VALVE STEM	3							
6	2	119625-11870	PROTECTOR, NOZZLE	3							
7	2	119625-11880	SEAT, NOZZLE	3							
8	2	119865-11310	GASKET, BONNET	1							
9	2	129150-77511	GASKET	1							
10	2	119810-12111	GASKET, MANIFOLD	1							
11	2	119813-13110	GASKET	1							
12	2	124950-11340	SEAL, VALVE STEM	3							
13	2	129150-32020	GASKET, PUMP	1							
14	2	129150-35041	GASKET	1							
15	2	129150-35111	GASKET	1							
16	2	129486-42050	GASKET, WATER PUMP	1							
17	2	129795-49551	GASKET	1							
18	2	24311-000120	O-RING, 1AP12.0	3							
19	2	24311-000160	O-RING, 1AP16.0	3							
20	2	24311-000320	O-RING, 1AP32.0	2							
21	2	24341-000500	O-RING, 1AS50.0	1							
22	2	24341-000240	O-RING, 1AS24.0	1							
23	2	22190-100002	WASHER, SEAL 10	2							
24	2	124465-44950	GASKET, 16	2							
25	2	129150-49811	GASKET, THERMOSTAT	1							
26	2	124701-11911	GASKET, SILENCER	1							
27	2	22190-080002	WASHER, SEAL 6	7							
28	2	22190-220002	WASHER, SEAL 22	1							
29	2	129155-52050	GASKET	1							
30	2	22190-120002	WASHER, SEAL 12	4							
31	1	129400-92420	HONE	1							1
32	1	977770-01212	GASKET, LIQUID	1							1

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101304-59020	13	50
103854-39140	13	49
104211-11180	4	14
104211-11370	4	18
114250-39450	9	31
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114250-53400	13	13
119131-18320	6	4
119260-34810	9	17
119620-01750	3	2
119620-02020	1	12
119625-11870	4	19
	16	6
119625-11880	4	20
	16	7
119625-11900	4	21
119640-01640	3	8
119653-12500	5	7
119653-77950	12	79
119655-12560	5	9
119660-61901	12	57
119808-12540	5	11
119810-01200	1	21
119810-01730	3	6
119810-01780	3	16
119810-01790	3	7
119810-02800	1	15
119810-02870	1	23
119810-02930	1	18
119810-02940	1	26
119810-11100	4	11
119810-11110	4	12
119810-11120	4	13
119810-11240	4	24
119810-12111	5	1
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119810-14400	7	2
119810-14580	7	3
119810-23200	8	27
119810-23600	8	28
119810-23610	8	30
119810-23910	8	26
119810-35401	9	19
119810-39200	9	33
119810-42001	10	1
119810-51040	11	5

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119810-59810	13	30
119810-59820	13	31
119810-59830	13	32
119810-77340	15	12
119812-11700	4	4
119813-13100	6	1
119813-13110	6	2
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119813-21000	8	1
119813-22300	8	21
119818-01330	1	22
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119818-22080	8	15
119818-22500	8	17
119818-22900	8	32
119818-22950	8	34
119820-77332	15	11
119820-77340	15	10
119831-42290	10	17
119836-34810	9	42
119836-77201	15	1
119836-77920	15	7
119840-59500	13	35
119840-59570	13	38
119865-11210	4	23
119865-11310	4	44
	16	8
119865-12600	5	12
119865-21600	8	14
119888-01600	3	1
119888-21590	8	12
121023-01550	2	24
121111-21501	8	11
121250-44901	10	27
121250-59550	13	34
121450-01560	2	5
121450-42450	10	29
121550-49111	10	19
121850-21680	8	10
121850-51960	2	12
	16	4
122117-51560	11	48
122710-51090	11	8
124060-11800	4	7
124066-59100	13	33
	36	
124160-01751	2	6
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124160-01910	1	4
	14	

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124160-11340	4	16
	16	5
124160-11360	4	48
124160-39140	9	32
124240-01871	2	7
124465-44950	10	20
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124520-77012	14	2
124550-51350	11	30
124550-51370	11	31
124550-59820	9	38
124550-59830	9	37
124550-66370	12	59
124701-11911	6	5
	16	26
124736-07900	4	2
124950-11340	4	17
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124950-51190	11	15
129001-01250	1	7
129001-32001	9	1
129001-35300	9	27
129001-91841	2	20
129052-61050	12	4
129052-61060	12	5
129052-61070	12	6
129052-61390	12	31
129052-61500	12	32
129052-61540	12	47
129100-01580	3	5
	13	
	8	2
129100-25061	7	9
129100-51300	11	25
129100-52100	11	93
129100-59951	13	40
129100-61400	12	17
129100-61440	12	76
129100-61650	12	77
129108-51100	11	9
129135-34800	9	16
129136-77251	15	8
129150-02450	7	4
129150-03020	4	40
129150-03070	4	41
129150-03080	4	42
129150-03100	2	10
129150-11230	4	31
129150-11280	4	29

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129150-11750	4	33
129150-14101	7	6
129150-14200	7	1
129150-21200	8	4
129150-25101	7	10
129150-25900	7	15
129150-25920	7	13
129150-32020	9	14
	16	13
129150-35041	9	18
	16	14
129150-35101	9	24
129150-35111	9	25
	16	15
129150-35151	9	26
129150-35350	9	28
129150-42320	10	12
129150-49811	10	25
	16	25
129150-59120	13	25
129150-59131	13	28
129150-59580	13	39
129150-77511	5	4
	16	9
129155-11260	4	27
129155-11270	4	28
129155-42350	10	18
129155-49800	10	24
129155-51020	11	4
129155-51050	11	6
129155-51060	11	7
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129155-51180	11	14
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129155-51370	11	32
129155-51380	11	33
129155-51390	11	34
129155-51400	11	35
129155-51410	11	36
129155-51420	11	37
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129155-51600	11	53
129155-51701	11	72
129155-51710	11	73
129155-51751	11	74
129155-51760	11	75
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129155-51930	11	78
129155-51940	11	79
129155-52050	11	92
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129155-61130	12	8
129155-61140	12	9
129155-61202	12	10
129155-61341	12	14
129155-61350	12	15
129155-61360	12	16
129155-61430	12	20
129155-61450	12	24
129155-61460	12	25
129155-61470	12	81
129155-61480	12	26
129155-61830	12	75
129155-61950	12	58
129156-51910	11	77
129350-49530	10	22
129400-01520	2	4
129400-92420	16	31
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129486-12581	5	6
129486-42050	10	14
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129612-77260	15	9
129612-77700	15	2
129612-77710	15	3
129612-77730	15	4
129612-77740	15	5
129612-77750	15	6
129792-22400	8	22
129795-01800	2	3
129795-01950	2	9
129795-02411	1	13
129795-21661	8	9
129795-49551	10	23
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174307-51170	11	13
174307-51560	11	49
174307-51700	12	33
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22190-060003	12	61
22190-080002	2	11
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22217-050000	11	80
22217-060000	11	81
22217-120000	7	16
22287-120000	12	64
22351-040010	8	7
22351-050010	11	82
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22372-040000	12	65
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23876-010000	1	6
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23887-100002	12	66
24101-063034	11	83
24311-000120	4	49
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24311-000160	2	13
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24311-000320	2	14
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26106-080122	2	15
26106-080142	4	3
	7	8
26106-080162	2	16
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26106-080202	2	17
	5	5
	9	30
26106-080222	10	26
26106-080252	4	35
	5	3
26106-080352	3	18
	9	23
	10	15
26106-080452	2	18
	3	12
	7	14
	9	44
26106-080502	4	36
26106-080552	2	19
	10	16
26106-080602	6	3
26116-050302	11	87
26116-120252	14	1
26206-100252	3	3
26206-100302	3	4
26216-060302	4	9
26216-080602	6	7
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26366-080002	2	21
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	12	82
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26716-120002	7	17
26756-060002	12	73
26776-120002	12	74
27241-120000	1	8
27241-300000	1	9
27241-400000	4	10
27310-070001	4	15
719810-01500	2	1
719810-01650	3	14
719810-11521	4	38
719810-11660	4	30
719810-23100	8	23
719818-92680	16	1
719822-01560	1	1
719822-51370	11	1
729500-53200	13	1
977770-01212	2	8
	3	19
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X0280626010	14	13
X0280996180	14	4
X0281007680	14	3
X0282005871	14	7
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X0284105010	14	14
X0284525010	14	28
X0285005770	14	11
X0285105190	14	5
X0285205030	14	6
X0286105050	14	16
X0286305010	14	18
X0286355010	14	19
X0287405140	14	20
X0534007800	14	21
X1289510130	14	36
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X9055715000	14	22
X9490065670	14	34
X9490138090	14	26
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