

0CV10-M68400EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE88 - ENSR engine manufactured since August, 1999.
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	Q'TY						I	R
				(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 COMPENSATOR 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	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New 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.

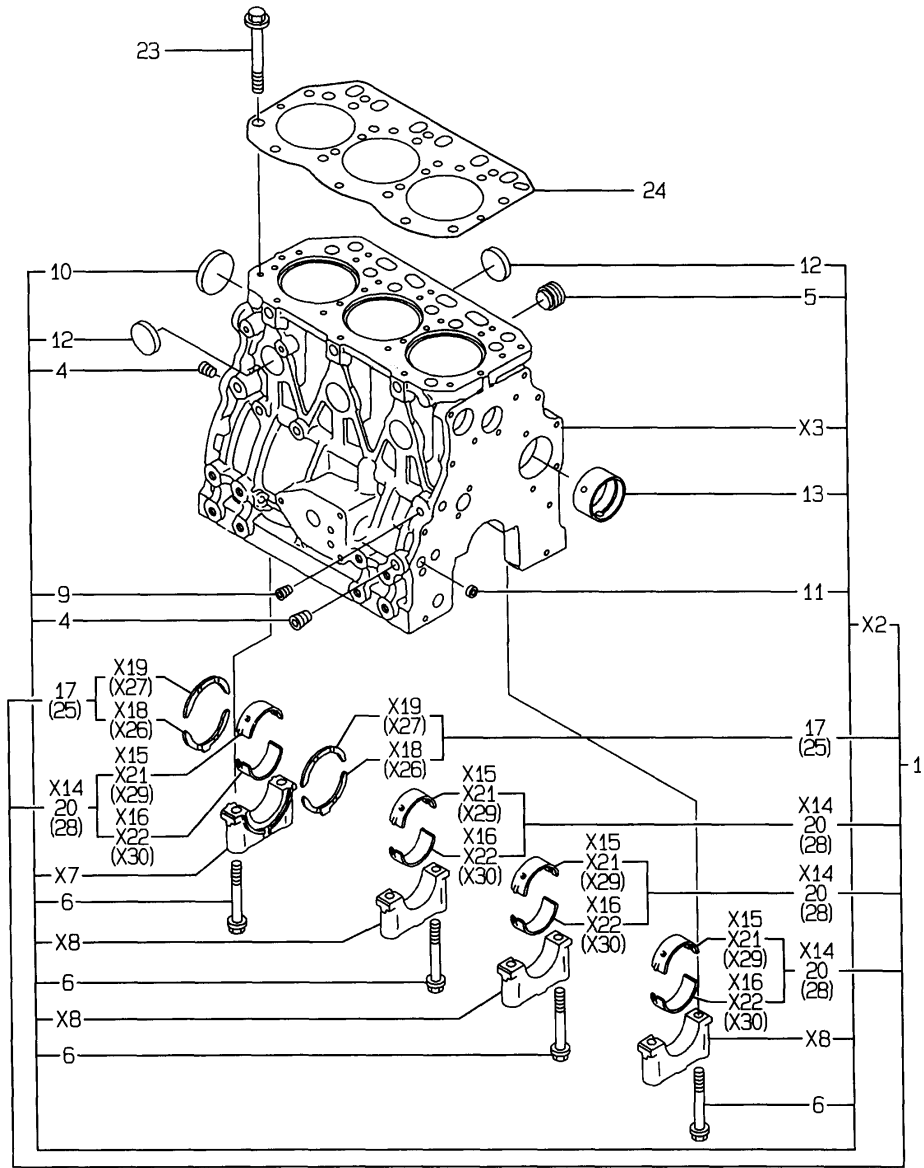
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD & AIR CLEANER		
6.	EXHAUST MANIFOLD & SILENCER		
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.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

Fig.1. CYLINDER BLOCK

1.CYLINDER BLOCK

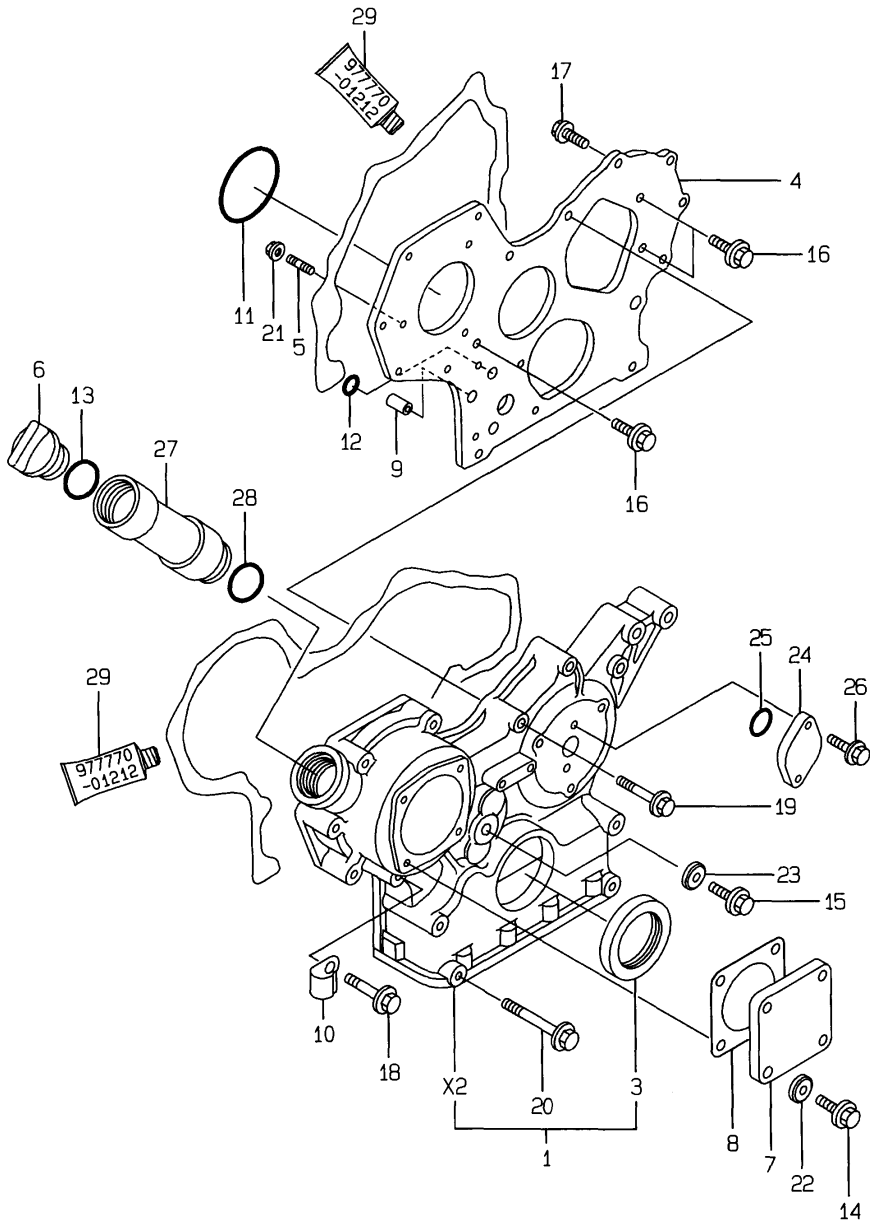


Remarks
(1) OVER-SIZE(O.S=0.25)PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729001-01560	BLOCK ASSY, CYLINDER	1							
4	3	124160-01910	PLUG, PT1/4	3							
5	3	171051-01921	PLUG, NPTF1	1							
6	3	129150-02020	BOLT, METAL CAP	8							
9	3	23876-010000	PLUG, R01	1							
10	3	27231-500000	PLUG 50	1							
11	3	27241-120000	PLUG, 12	2							
12	3	27241-300000	PLUG 30	6							
13	3	129795-02411	BUSH, CAMSHAFT	1							
17	2	129150-02930	BEARING, THRUST	2							
20	2	129001-02930	BEARING, MAIN	4							3
23	1	129150-01200	BOLT, HEAD	14							
24	1	129001-01340	GASKET, HEAD	1							
25	1	129150-02940	BEARING, THRUST 0.25	2							1
28	1	129150-02870	BEARING, 0.25 US	4							2

Fig.2. GEAR HOUSING

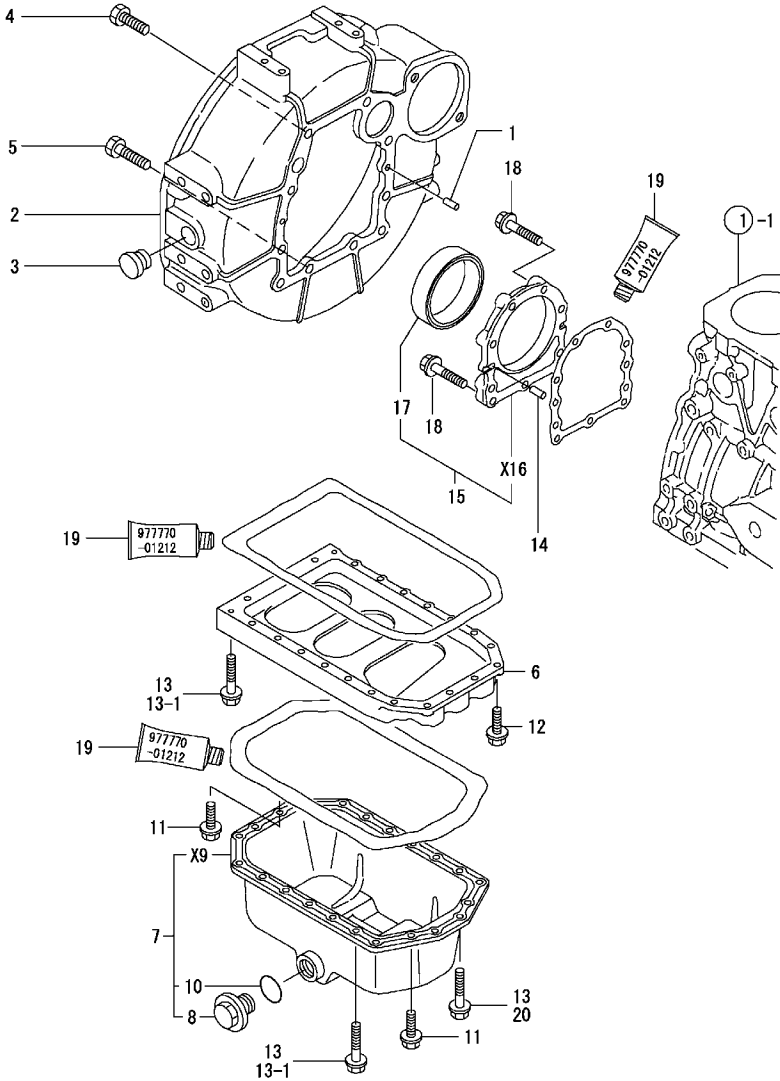
2.GEAR HOUSING



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	124240-01883	GASKET	1							
9	1	129795-01950	PIPE, KNOCK L=18	2							
10	1	129150-03100	RETAINER, PIPE	1							
11	1	121850-51960	O-RING	1							
12	1	24311-000160	O-RING, 1AP16.0	2							
13	1	24311-000320	O-RING, 1AP32.0	1							
14	1	26106-080122	BOLT, M8X 12 PLATED	4							
15	1	26106-080162	BOLT, M8X 16 PLATED	1							
16	1	26106-080162	BOLT, M8X 16 PLATED	3							
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	129001-91840	BOLT, M8X85	4							
21	1	26366-080002	NUT, M8	3							
22	1	22190-080002	WASHER, SEAL 6	4							
23	1	22190-080002	WASHER, SEAL 6	1							
24	1	121023-01550	COVER	1							
25	1	24341-000240	O-RING, 1AS24.0	1							
26	1	26106-060162	BOLT, M6X 16 PLATED	2							
27	1	171031-11741	PIPE	1							
28	1	24311-000320	O-RING, 1AP32.0	1							
29	1	977770-01212	GASKET, LIQUID	1							1

Remarks
(1) OPTIONAL PART.

Fig.3. FLYWHEEL HOUSING & OIL SUMP



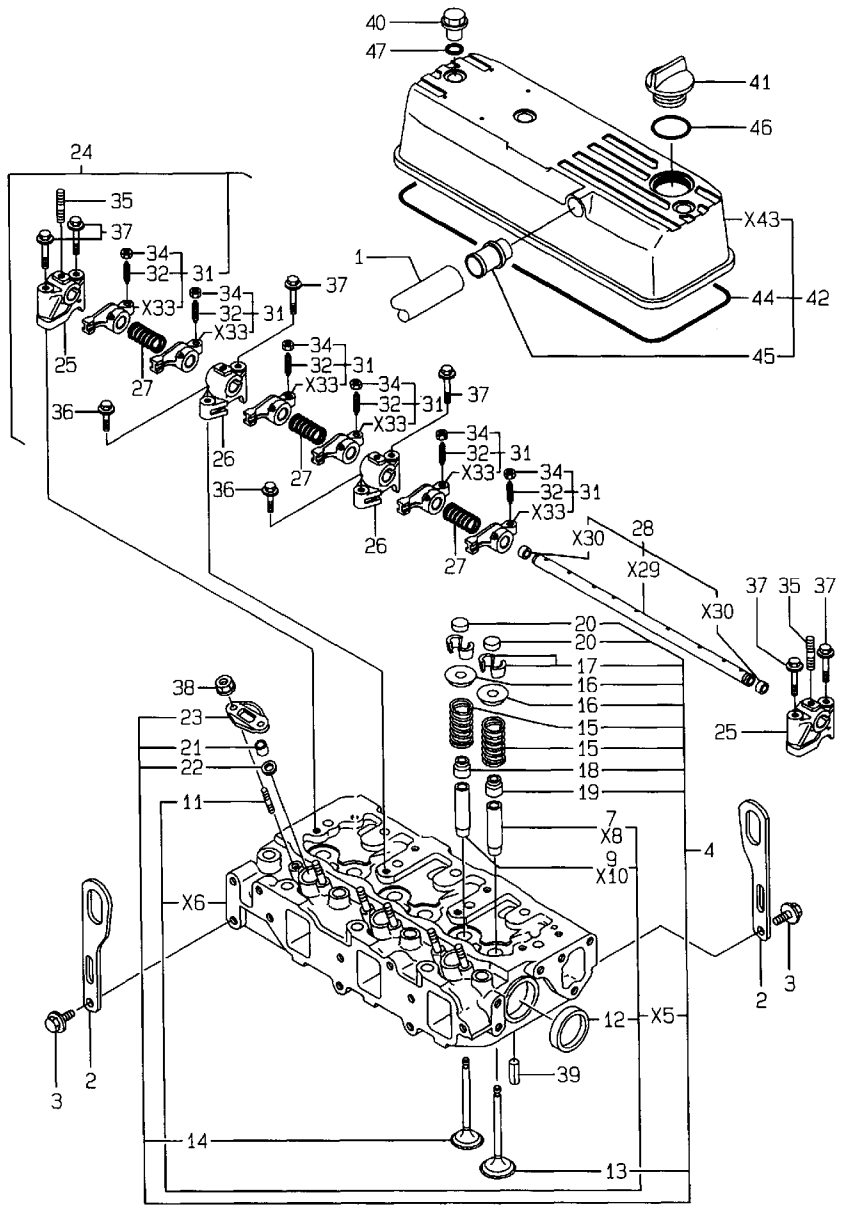
X-MARK PARTS:NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL SUMP	1							
7	1	129100-01760	SUMP ASSY, OIL	1							
8	2	171301-01640	PLUG, 22	1							
10	2	24341-000250	O-RING, 1AS25.0	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	4							
12	1	26106-080252	BOLT, M8X 25 PLATED	2							
13	1	26106-080452	BOLT, M8X 45 PLATED	20							
13-1	1	26106-080452	BOLT, M8X 45 PLATED	16							K
(A=FROM 1ST)											
14	1	129100-01580	PIN, M8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
17	2	129795-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT, M8X30	9							
19	1	977770-01212	GASKET, LIQUID	1							1
20	1	26106-080502	BOLT, M8X 50 PLATED	4							W
(A=FROM 1ST)											

Remarks
(1) OPTIONAL PART.

Fig.4. CYLINDER HEAD & BONNET

4.CYLINDER HEAD & BONNET

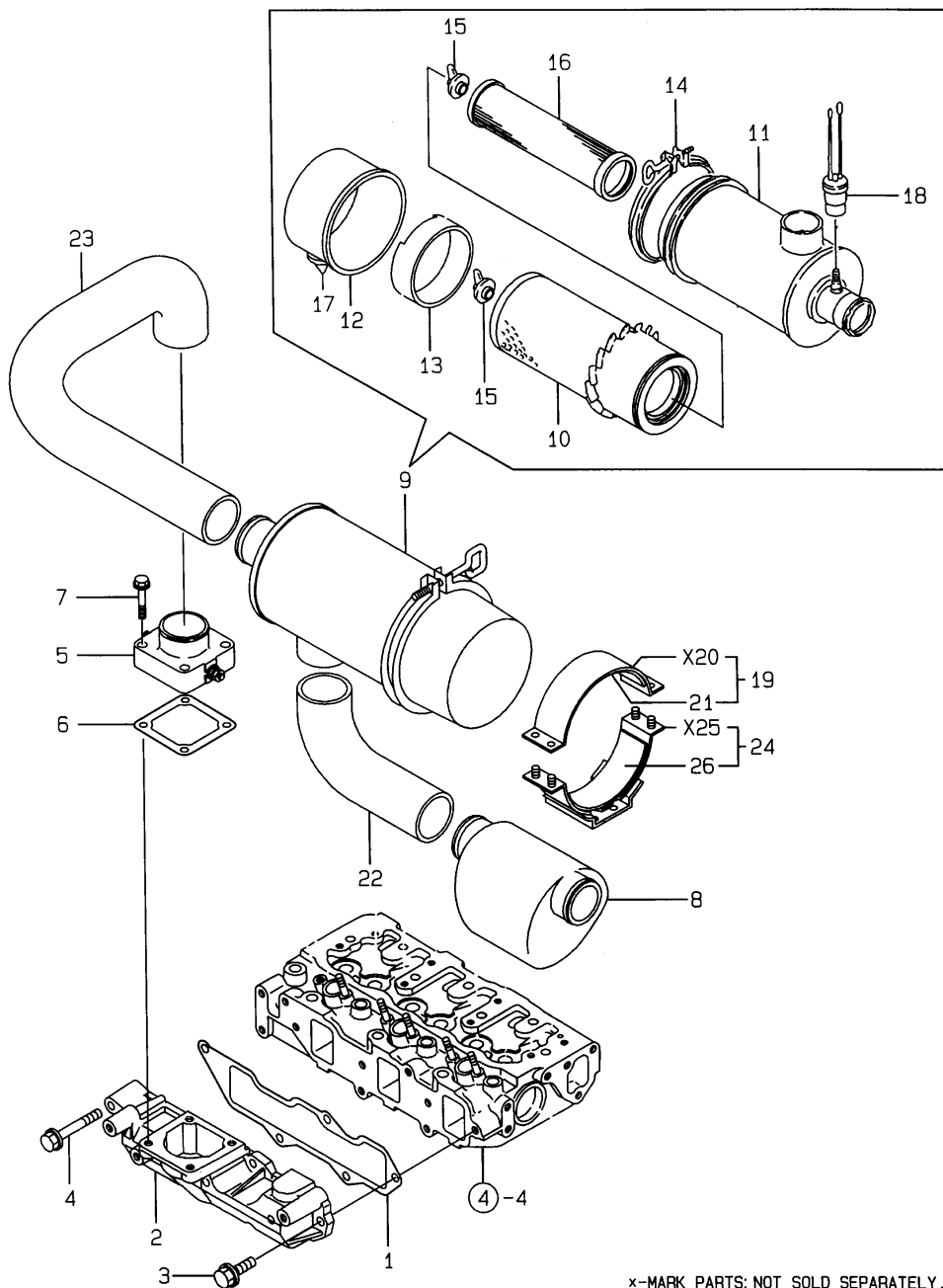


x-MARK PARTS: NOT SOLD SEPARATELY.

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	2							
3	1	26106-080142	BOLT, M8X 14 PLATED	4							
4	1	129051-11700	HEAD ASSY, CYLINDER	1							
7	3	120130-11860	GUIDE, VALVE	3							1
9	3	129150-11810	GUIDE, VALVE	3							1
11	3	26216-060202	STUD, M6X 20	6							
12	3	27241-400000	PLUG, 40	2							
13	2	129100-11100	VALVE, INTAKE	3							
14	2	129100-11110	VALVE, EXHAUST	3							
15	2	129795-11120	SPRING, VALVE	6							
16	2	129795-11180	RETAINER, SPRING	6							
17	2	27310-080001	COTTER, 8	6							
18	2	121400-11340	SEAL, VALVE STEM	3							
19	2	124460-11340	SEAL, VALVE STEM	3							
20	2	129150-11370	CAP, VALVE	6							
21	2	119625-11870	PROTECTOR, NOZZLE	3							
22	2	119625-11880	SEAT, NOZZLE	3							
23	2	119625-11900	RETAINER, NOZZLE	3							
24	1	129155-11241	SHAFT ASSY, ROCKER	1							
25	2	129155-11260	SUPPORT, ROCKER ARM	2							
26	2	129155-11270	SUPPORT, ROCKER ARM	2							
27	2	129150-11280	SPRING	3							
28	2	129150-11290	SHAFT, ROCKER ARM	1							
31	2	729402-11650	ARM ASSY, ROCKER	6							
32	3	129150-11230	SCREW, VALVE ADJUST	6							
34	3	129150-11750	NUT, M8	6							
35	2	26226-080182	STUD, M8X 18	3							
36	1	26106-080252	BOLT, M8X 25 PLATED	2							
37	1	26106-080502	BOLT, M8X 50 PLATED	6							
38	1	26366-060002	NUT, M6	6							
39	1	22351-060012	PIN, SPRING 6.0X12	2							
40	1	124160-11360	KNOB	3							
41	1	124160-01751	COVER, FILLER	1							
42	1	129001-11350	BONNET ASSY, HEAD	1							
44	2	129001-11310	GASKET, BONNET	1							
45	2	129001-11340	PIPE , BREATHER	1							
46	1	24311-000320	O-RING, 1AP32.0	1							
47	1	24311-000120	O-RING, 1AP12.0	3							

Remarks
(1) REPAIR PART.

5. SUCTION MANIFOLD & AIR CLEANER



(A)=3TNE88-ENSR
(B)=
(C)=

(D)=
(E)=
(F)=

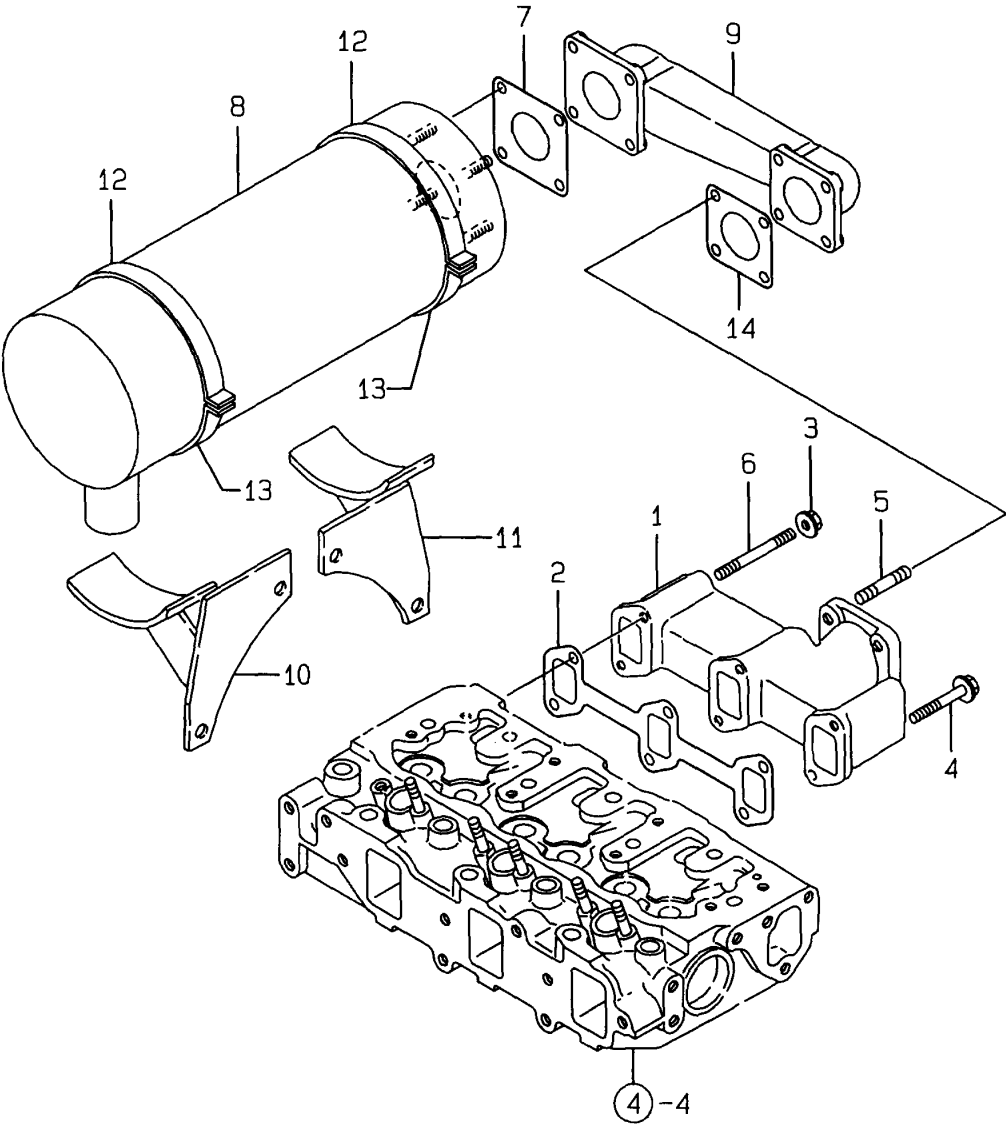
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-12110	GASKET, MANIFOLD	1							
2	1	129001-12120	MANIFOLD, AIR INTAKE	1							
3	1	26106-080202	BOLT, M8X 20 PLATED	4							
4	1	26106-080502	BOLT, M8X 50 PLATED	1							
5	1	129120-77501	HEATER	1							
6	1	129150-77511	GASKET	1							
7	1	26106-080352	BOLT, M8X 35 PLATED	4							
8	1	121855-12060	SILENCER ASSY	1							
9	1	171061-12500	CLEANER ASSY, AIR	1							
10	2	121420-12511	ELEMENT	1							
11	2	171061-12520	BODY ASSY	1							
12	2	121422-12530	CUP	1							
13	2	121420-12540	SCARF, BAFFLE	1							
14	2	121420-12550	CLAMP ASSY	1							
15	2	121420-12561	NUT, WING	2							
16	2	121422-12570	ELEMENT	1							
17	2	121422-12580	VALVE, UNLOADER	1							
18	2	171061-12800	INDICATOR	1							
19	1	121400-12540	BAND ASSY, CLEANER	1							
21	2	121400-12570	SEAT, RUBBER B	1							
22	1	129030-12550	PIPE, AIR INTAKE	1							
23	1	129030-12560	PIPE, AIR INTAKE	1							
24	1	171351-12580	SUPPORT ASSY,CLEANER	1							
26	2	171351-12570	SEAT, RUBBER	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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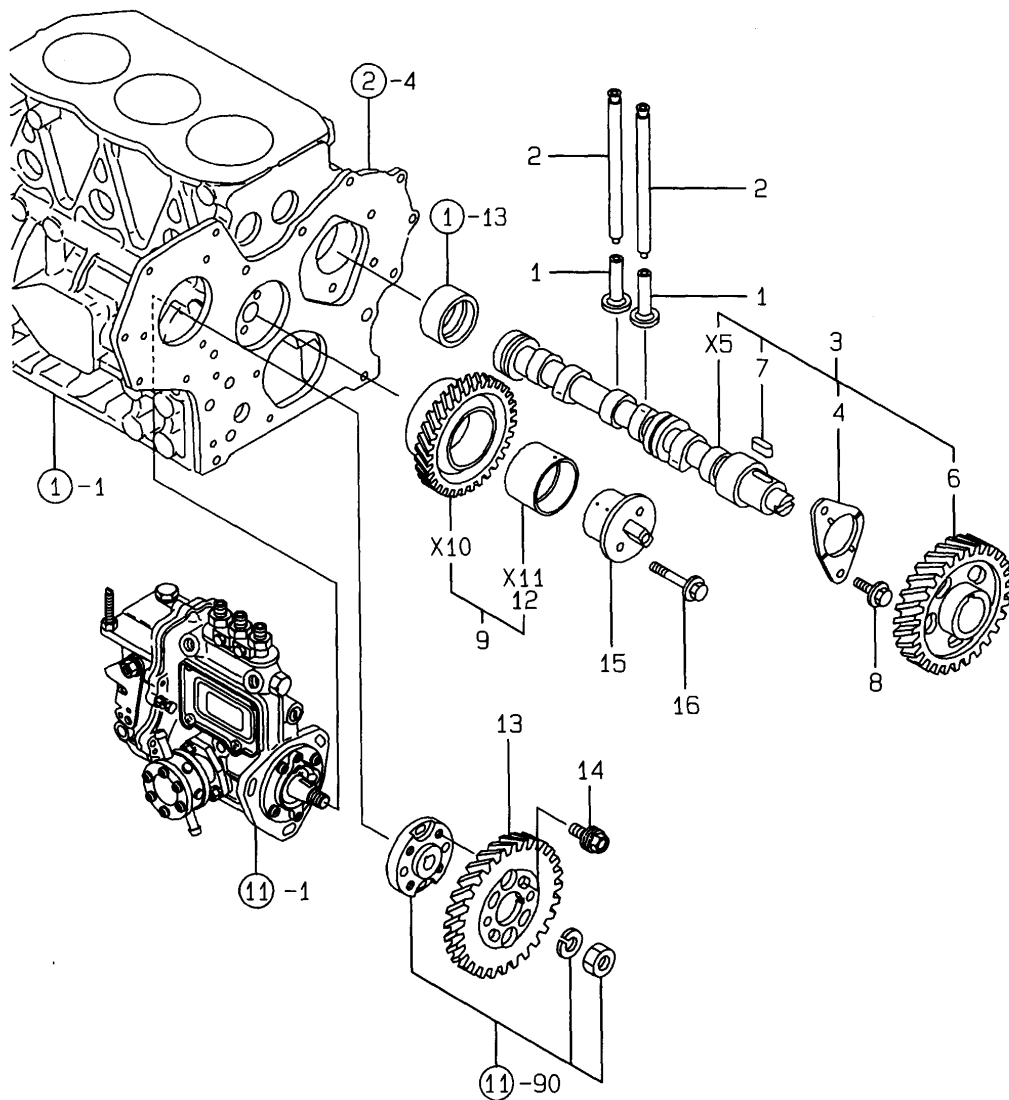
Fig.6. EXHAUST MANIFOLD & SILENCER

6.EXHAUST MANIFOLD & SILENCER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-13110	MANIFOLD, EXHAUST	1							
2	1	129150-13110	GASKET	1							
3	1	26366-080002	NUT, M8	2							
4	1	26106-080802	BOLT, M8X 80 PLATED	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26216-080802	STUD, M8X 80	2							
7	1	129400-13201	GASKET, SILENCER	1							
8	1	129030-13510	SILENCER	1							
9	1	129030-13540	BEND, EXHAUST	1							
10	1	129030-13650	SUPPORT	1							
11	1	129130-13660	SUPPORT	1							
12	1	129111-13670	BAND, SILENCER	2							
13	1	129111-13680	BAND, SILENCER	2							
14	1	124701-11911	GASKET, SILENCER	1							

7. CAMSHAFT & DRIVING GEAR



No.	Lev.	Parts No.	Description	(A)=3TNE88-ENSR		(D)=		(E)=		I	R
				(B)=	(C)=	(C)	(D)	(E)	(F)=		
1	1	129150-14200	TAPPET		6						
2	1	129150-14400	ROD, PUSH L=178		6						
3	1	129129-14580	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	129150-25101	GEAR ASSY, IDLE		1						
12	2	129150-25920	BUSH, IDLE GEAR		1						1
13	1	129150-25931	GEAR, PUMP		1						
14	1	129150-25301	BOLT		4						
15	1	129100-25061	SHAFT, IDLE		1						
16	1	26106-080452	BOLT, M8X 45 PLATED		2						

Remarks
(1) REPAIR PART.

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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This exploded view diagram illustrates the assembly of a mechanical component, likely a piston and crankshaft assembly. The parts are labeled with reference numerals and assembly numbers:

- Top Assembly (Piston/Cylinder):**
 - 15 (30):** Piston assembly, including:
 - 17 (32):** Piston rings, including **X18 (X33)**, **X19 (X34)**, and **X20 (X35)**.
 - X16 (X31):** Piston pin.
 - 22:** Piston pin clip.
 - 21:** Piston skirt.
- Intermediate Assembly (Crankshaft):**
 - 23 (36):** Crankshaft assembly, including:
 - X24:** Crank pin.
 - 28 (36):** Crank pin cap, including **X29 (X37)**.
 - 27:** Crank pin cap screw.
 - X25 26:** Crank pin cap nut.
- Bottom Assembly (Flywheel/Camshaft):**
 - 12:** Flywheel/camshaft assembly, including:
 - X13:** Flywheel/camshaft.
 - 14:** Flywheel/camshaft.
 - 11:** Flywheel/camshaft bolt.
 - 1:** Crankshaft, including:
 - 2:** Crankshaft pin.
 - X3:** Crankshaft pin.
 - X6:** Crankshaft pin.
 - 4:** Crankshaft pin.
 - 5:** Crankshaft pin.
 - 7:** Crankshaft pin.
 - 8:** Crankshaft pin.
 - 9:** Crankshaft pin.
 - 10:** Crankshaft pin.

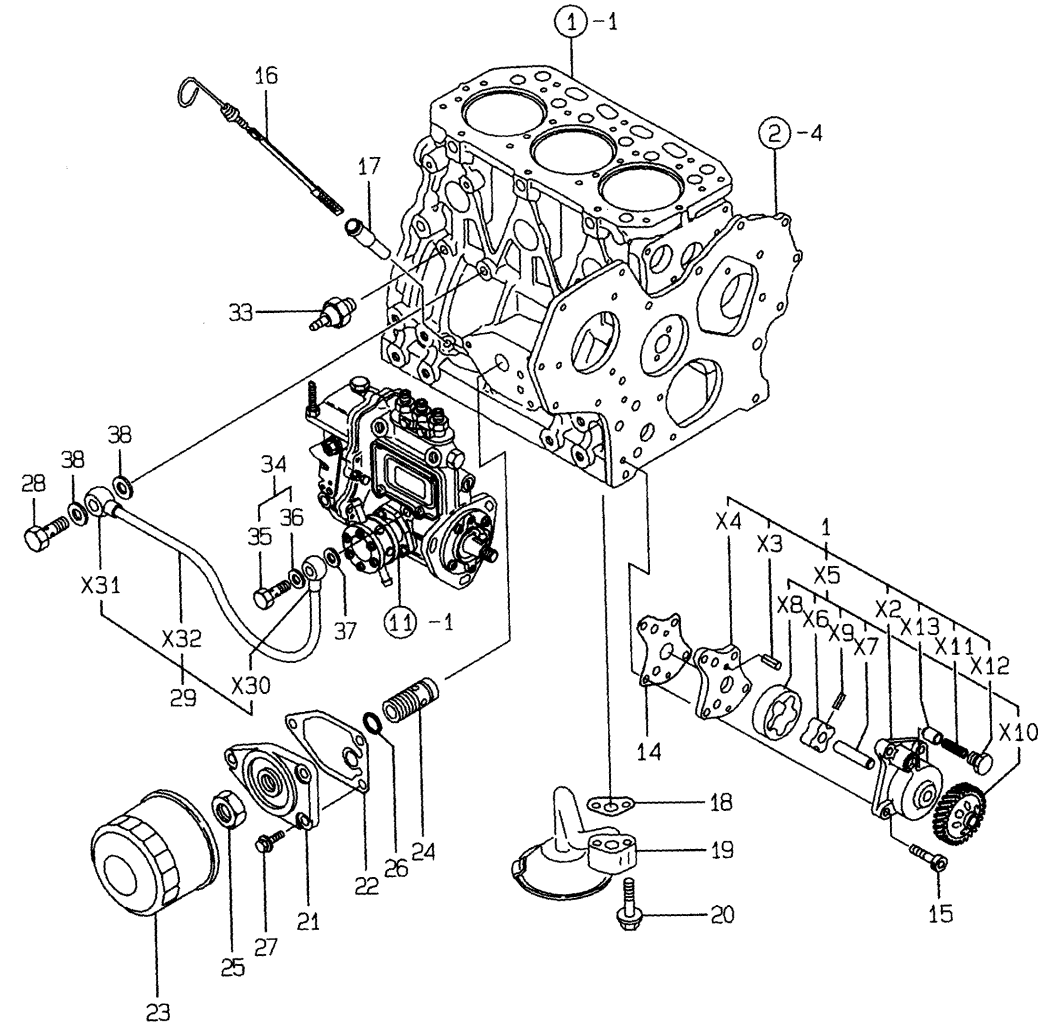
(1) REPAIR PART.
(2) OVER-SIZE(O.S=0.25)PART.
(3) UNDER-SIZE(U.S=0.25)PART.

[illegible]

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.9. LUB.OIL SYSTEM

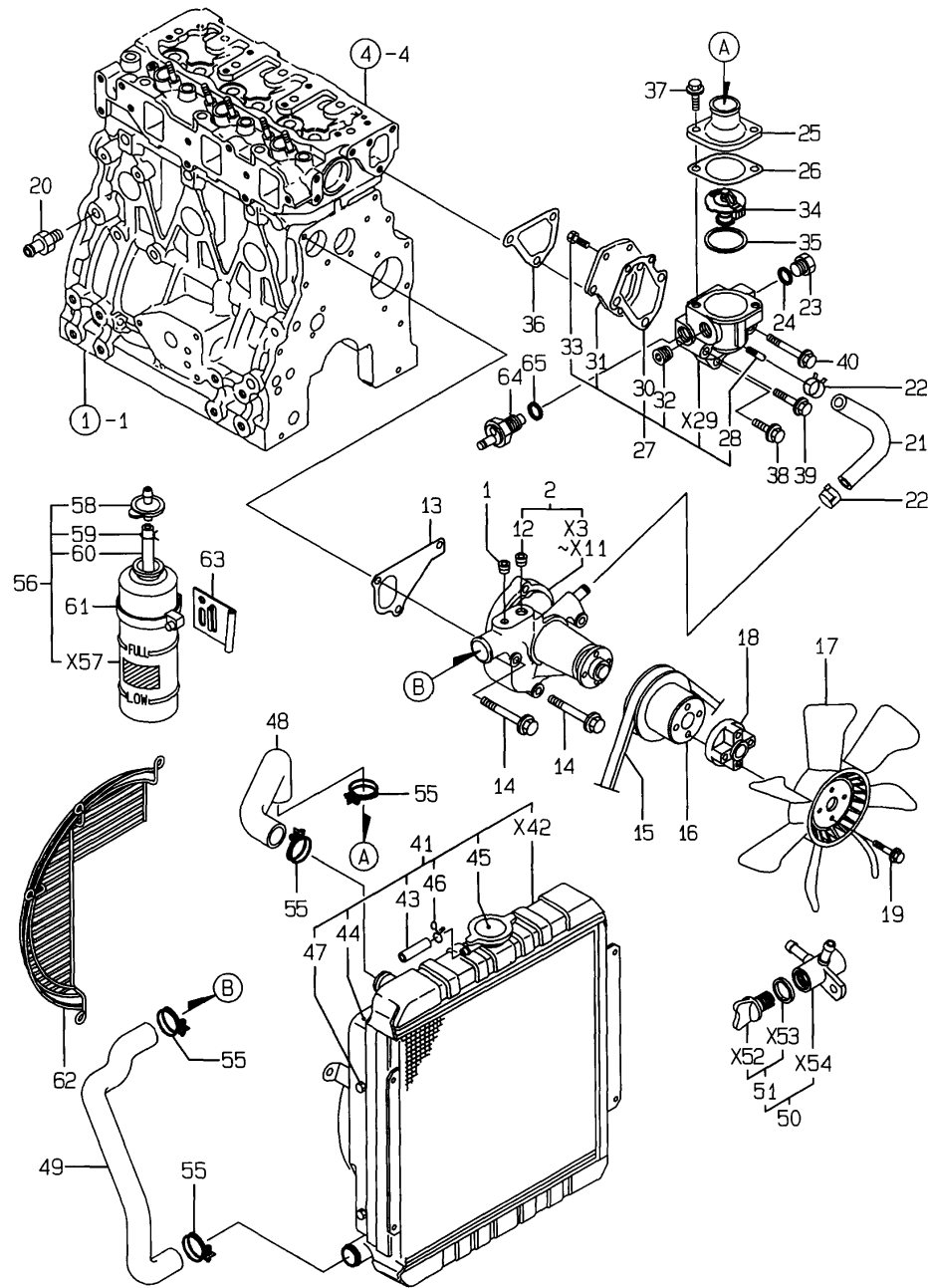
9.LUB.OIL SYSTEM



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	171420-34820	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35041	GASKET	1							
19	1	129100-35301	PIPE ASSY, OIL INLET	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	129150-35101	BRACKET, STRAINER	1							
22	1	129150-35111	GASKET	1							
23	1	129150-35151	FILTER, D80XL80	1							
24	1	129001-35300	BOLT, FILTER	1							
25	1	129150-35350	NUT	1							
26	1	24311-000160	O-RING, 1AP16.0	1							
27	1	26106-080202	BOLT, M8X 20 PLATED	3							
28	1	124160-39140	BOLT, PIPE JOINT M10	1							
29	1	129150-39450	PIPE ASSY, OIL	1							
33	1	121252-39450	SWITCH, 0.5KG	1							
34	1	124550-59830	BOLT ASSY, JOINT M8	1							
35	2	124550-59820	BOLT, PIPE JOINT M8	1							
36	2	22190-080003	WASHER, SEAL 8	1							
37	1	22190-080003	WASHER, SEAL 8	1							
38	1	23414-100000	GASKET, 10X1.0	2							

Fig.10. COOLING WATER SYSTEM

10.COOLING WATER SYSTEM

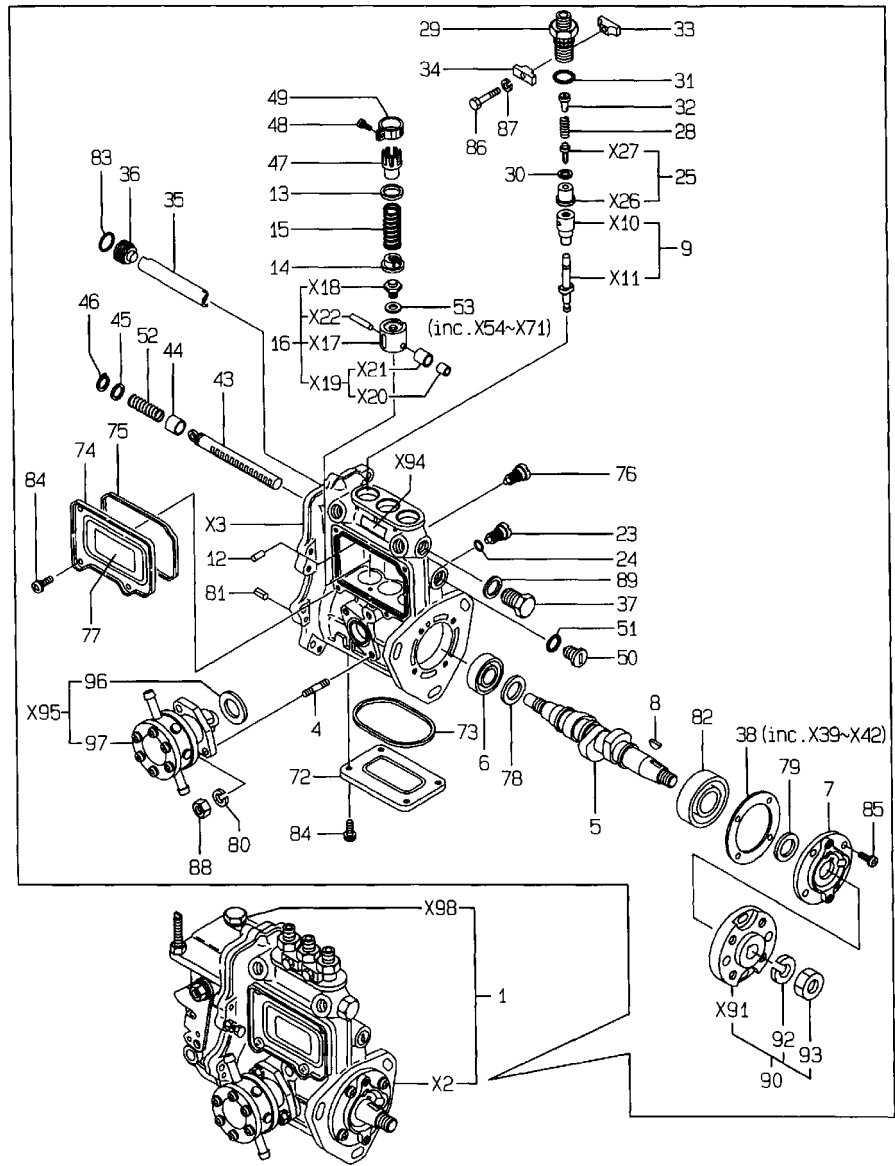


x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121850-11860	PLUG, PT1/4	1							
2	1	129100-42003	PUMP ASSY, WATER	1							
12	2	23871-030000	PLUG, R03	1							
13	1	129486-42021	GASKET, WATER PUMP	1							
14	1	26106-080602	BOLT, M8X 60 PLATED	3							
15	1	25132-003800	V-BELT, A38	1							
16	1	129155-42350	V-PULLEY	1							
17	1	129120-44741	FAN, COOLING 360	1							
18	1	171353-44760	SPACER, FAN	1							
19	1	26106-060352	BOLT, M6X 35 PLATED	4							
20	1	121550-49111	JOINT, PT1/4	1							
21	1	129132-49050	PIPE, WATER	1							
22	1	23000-016000	CLAMP, 16	2							
23	1	121450-42450	PLUG, M16	1							
24	1	124465-44950	GASKET, 16	1							
25	1	129350-49530	COVER, THERMOSTAT	1							
26	1	129795-49551	GASKET	1							
27	1	129100-49800	CASE ASSY,THERMOSTAT	1							
28	2	124770-11770	JOINT, PIPE PT1/8	1							
30	2	129100-49820	GASKET	1							
31	2	129100-49830	COVER, THERMOSTAT	1							
32	2	23876-030000	PLUG, R03	1							
33	2	26116-060162	BOLT, M6X 16 PLATED	2							
34	1	129155-49800	THERMOSTAT, 71	1							
35	1	129150-49811	GASKET, THERMOSTAT	1							
36	1	129100-49840	GASKET	1							
37	1	26106-080202	BOLT, M8X 20 PLATED	2							
38	1	26106-080252	BOLT, M8X 25 PLATED	1							
39	1	26106-080502	BOLT, M8X 50 PLATED	1							
40	1	26106-080602	BOLT, M8X 60 PLATED	1							
41	1	129420-44500	RADIATOR	1							
43	2	129132-44530	HOSE, RUBBER	1							
44	2	129420-44550	SHROUD ASSY	1							
45	2	119259-44570	CAP, RADIATOR	1							
46	2	121250-44590	CLAMP	2							
47	2	26014-060122	BOLT, M6X 12	4							
48	1	171420-49010	PIPE, WATER	1							
49	1	171420-49020	PIPE, WATER	1							
50	1	129150-49100	COCK ASSY, 3-WAY	1							
51	2	129150-49080	COCK, DRAIN	1							
55	1	23010-038000	CLAMP, 38	4							
56	1	124450-44510	TANK ASSY, SUB	1							
58	2	124450-44530	CAP	1							
59	2	124450-44560	RETAINER	1							
60	2	23061-070230	PIPE, 7X 230	1							
61	1	124450-44550	BAND	1							
62	1	129430-44560	GUARD	1							
63	1	121256-44600	BRACKET, SUB TANK	1							
64	1	121250-44901	SWITCH, 110	1							
65	1	124465-44950	GASKET, 16	1							

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP

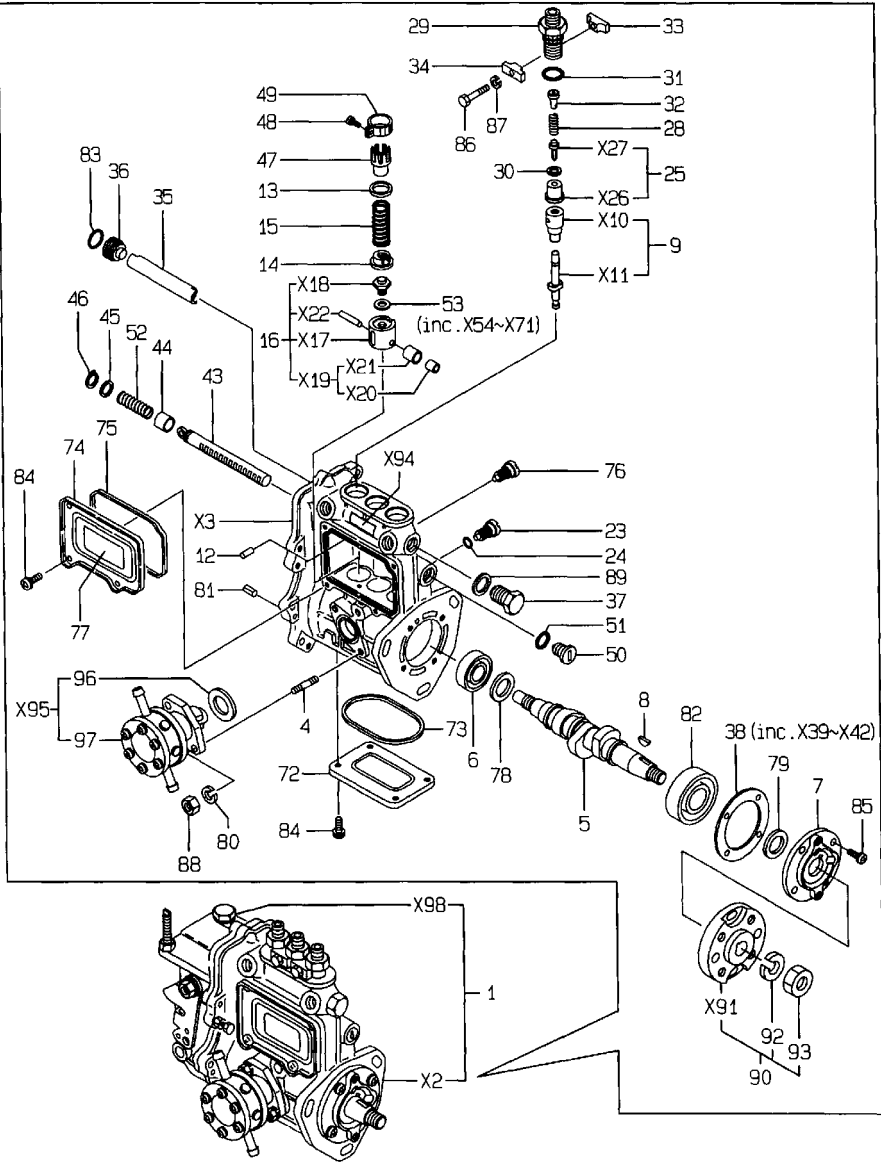


Remarks
(1)GOVERNOR ASSY(FIG.12)IS
INCORPORATED IN THIS FUEL
INJECTION PUMP ASSY(REF.NO.1)

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729209-51480	PUMP ASSY, INJECTION	1							1
4	3	129155-51020	STUD	2							
5	3	129171-51040	CAMSHAFT	1							
6	3	129155-51050	BEARING, 17BM001D	1							
7	3	129208-51060	SUPPORT	1							
8	3	122710-51090	KEY	1							
9	3	129506-51100	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	129209-51300	VALVE ASSY, DELIVERY	3							
28	3	129573-51330	SPRING, DELIVERY	3							
29	3	129573-51340	RETAINER	3							
30	3	124550-51350	GASKET, DELIVERY	3							
31	3	124550-51370	O-RING	3							
32	3	129573-51370	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	129155-51700	COVER	1							
73	3	129155-51710	GASKET	1							
74	3	129155-51750	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	22217-060000	WASHER, SPRING 6	2							
81	3	22351-050010	PIN, SPRING 5.0X10	2							
82	3	24101-063034	BEARING, BALL 6303	1							
83	3	24341-000160	O-RING, 1AS16.0	1							
84	3	26022-050102	SCREW, M5X10	8							
85	3	26022-060162	SCREW, M6X16	4							

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



Remarks
(1)GOVERNOR ASSY(FIG.12)IS
INCORPORATED IN THIS FUEL
INJECTION PUMP ASSY(REF.NO.1)

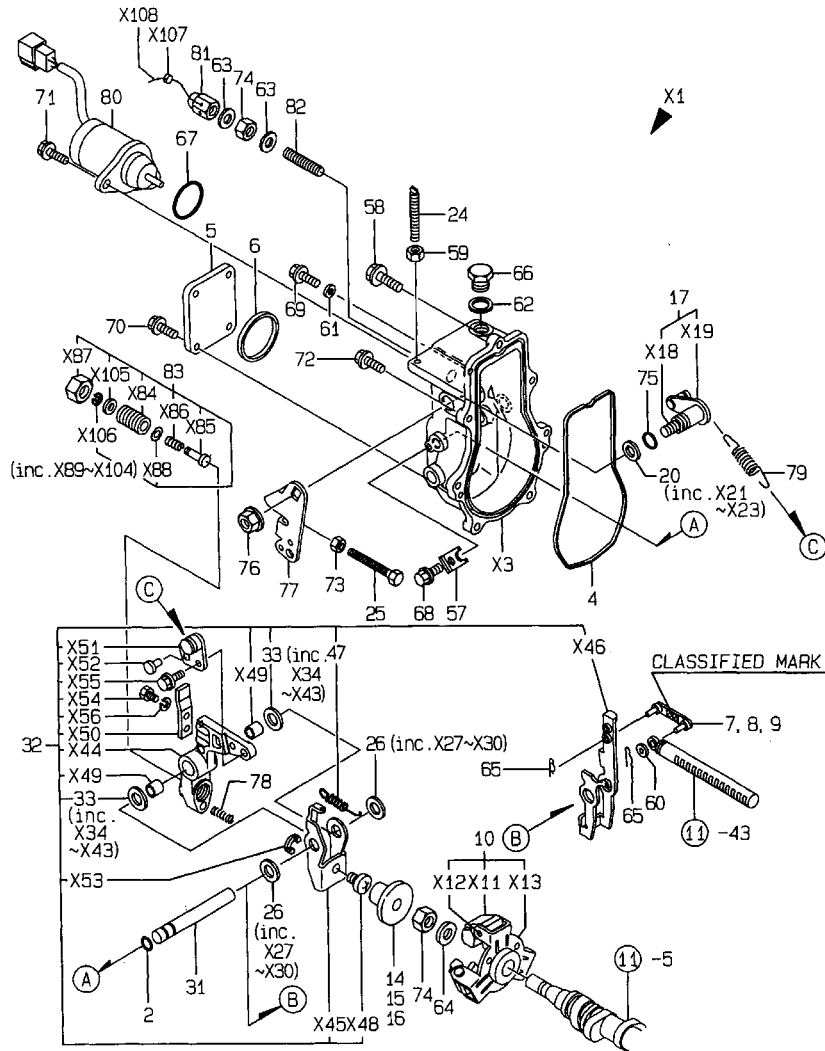
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
86	3	26116-050302	BOLT, M5X 30 PLATED	2							
87	3	22217-050000	WASHER, SPRING 5	2							
88	3	26716-060002	NUT, M6	2							
89	3	22190-160002	WASHER, SEAL 16	1							
90	3	129208-54500	FLANGE ASSY	1							
92	4	22217-120000	WASHER, SPRING 12	1							
93	4	26716-120002	NUT, M12	1							
96	3	129155-52050	GASKET	1							
97	3	129100-52100	PUMP ASSY, FUEL FEED	1							

Fig.12. GOVERNOR

(A)=3TNE88-ENSR
(B)=
(C)=

(D)=
(E)=
(F)=

12. GOVERNOR



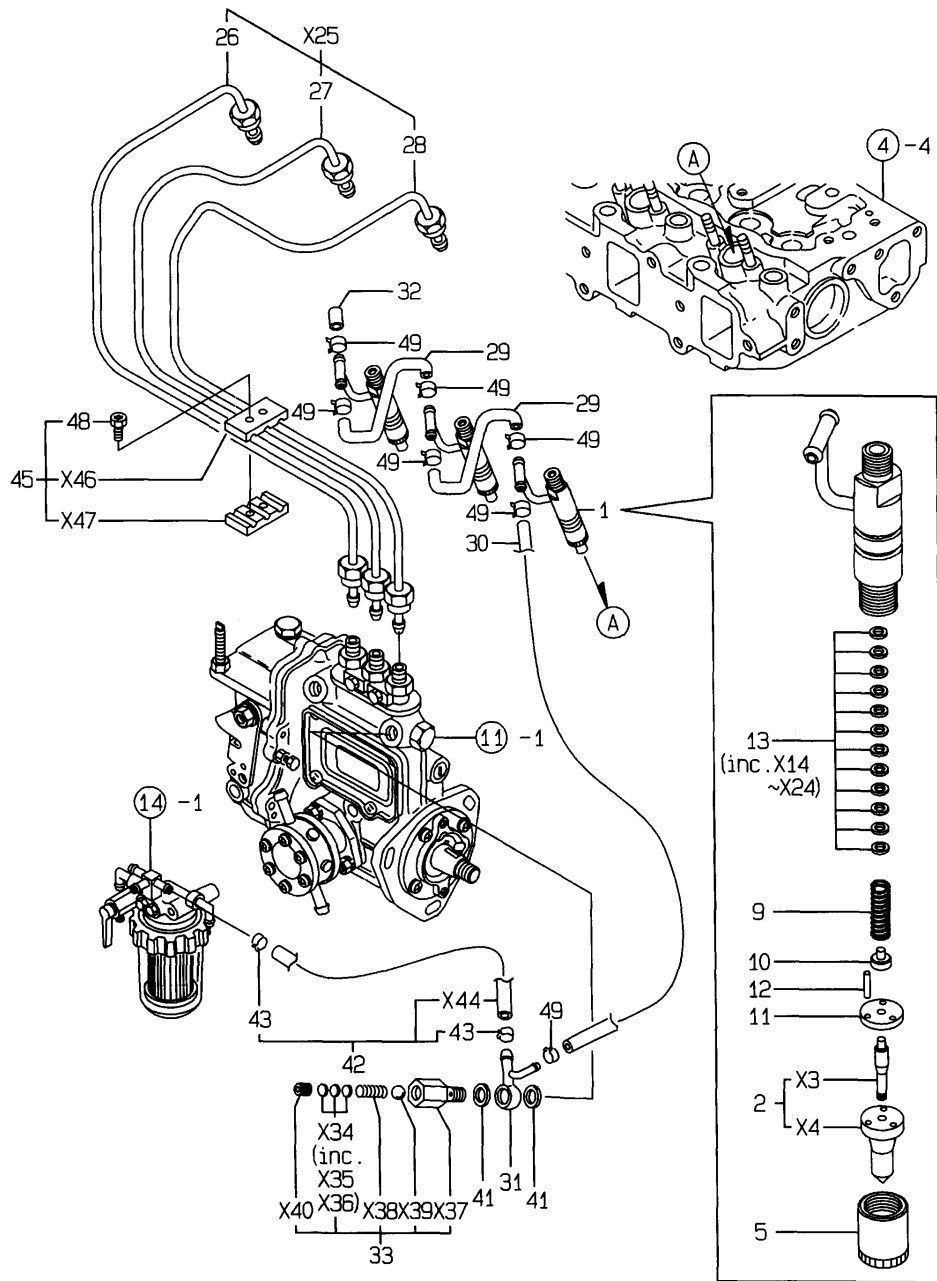
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	3	129155-51280	O-RING, S6	1							
4	3	129052-61050	GASKET	1							
5	3	129052-61060	COVER, GOVERNOR CASE	1							
6	3	129052-61070	GASKET	1							
7	3	129155-61120	LINK, L=30 MARK 0	1							1
8	3	129155-61130	LINK, L=31 MARK 1	1							1
9	3	129155-61140	LINK, L=30.5 MARK 05	1							1
10	3	129155-61201	WEIGHT ASSY,GOVERNOR	1							
14	3	129155-61341	SLEEVE	1							2
15	3	129155-61350	SLEEVE, L=24.9	1							2
16	3	129155-61360	SLEEVE, L=25.2	1							2
17	3	129100-61400	SHAFT ASSY	1							
20	3	129155-61430	SPACER	1							
24	3	129155-61450	BOLT, LIMITER	1							
25	3	129155-61460	BOLT, IDLE	1							
26	3	129155-61480	SPACER ASSY	2							
31	3	129052-61390	SHAFT	1							
32	3	129052-61500	LEVER ASSY, GOVERNOR	1							
33	4	174307-51700	SHIM SET	2							
47	4	129052-61540	SPRING, SET	1							
57	3	119660-61901	RETAINER, SHAFT	1							
58	3	129155-61950	BOLT	1							
59	3	124550-66370	NUT, M6	1							
60	3	22117-040000	WASHER, 4	1							
61	3	22190-060003	SEAL WASER 6	1							
62	3	22190-100002	WASHER, SEAL 10	1							
63	3	22190-120002	WASHER, SEAL 12	2							
64	3	22287-120000	WASHER, 12	1							
65	3	22372-040000	PIN, SNAP 4	2							
66	3	23887-100002	PLUG, 10	1							
67	3	24341-000280	O-RING, 1AS28.0	1							
67-1	3	158552-61900	O-RING	1							N
(A)=EXXXXXX											
68	3	26106-060102	BOLT, M6X 10 PLATED	1							
69	3	26106-060102	BOLT, M6X 10 PLATED	1							
70	3	26106-060102	BOLT, M6X 10 PLATED	4							
71	3	26106-060142	BOLT, M6X 14 PLATED	2							
72	3	26106-060202	BOLT, M6X 20 PLATED	6							
73	3	26756-060002	NUT, LOCK M6	1							
74	3	26776-120002	NUT, LOCK M12	2							
75	3	129155-61830	O-RING, S10	1							
76	2	26366-080002	NUT, M8	1							
77	2	129100-61440	LEVER, CONTROL	1							
78	2	129100-61650	SPRING, CONTROLLER	1							
79	2	129489-61700	SPRING, GOVERNOR	1							
80	2	119653-77950	SOLENOID, STOP	1							
81	2	129100-61930	NUT, CAP	1							
82	2	129155-61470	BOLT, CONTROL	1							
83	2	119600-66720	ANGLEICH ASSY	1							

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).

Fig.13. FUEL INJECTION VALVE

13.FUEL INJECTION VALVE

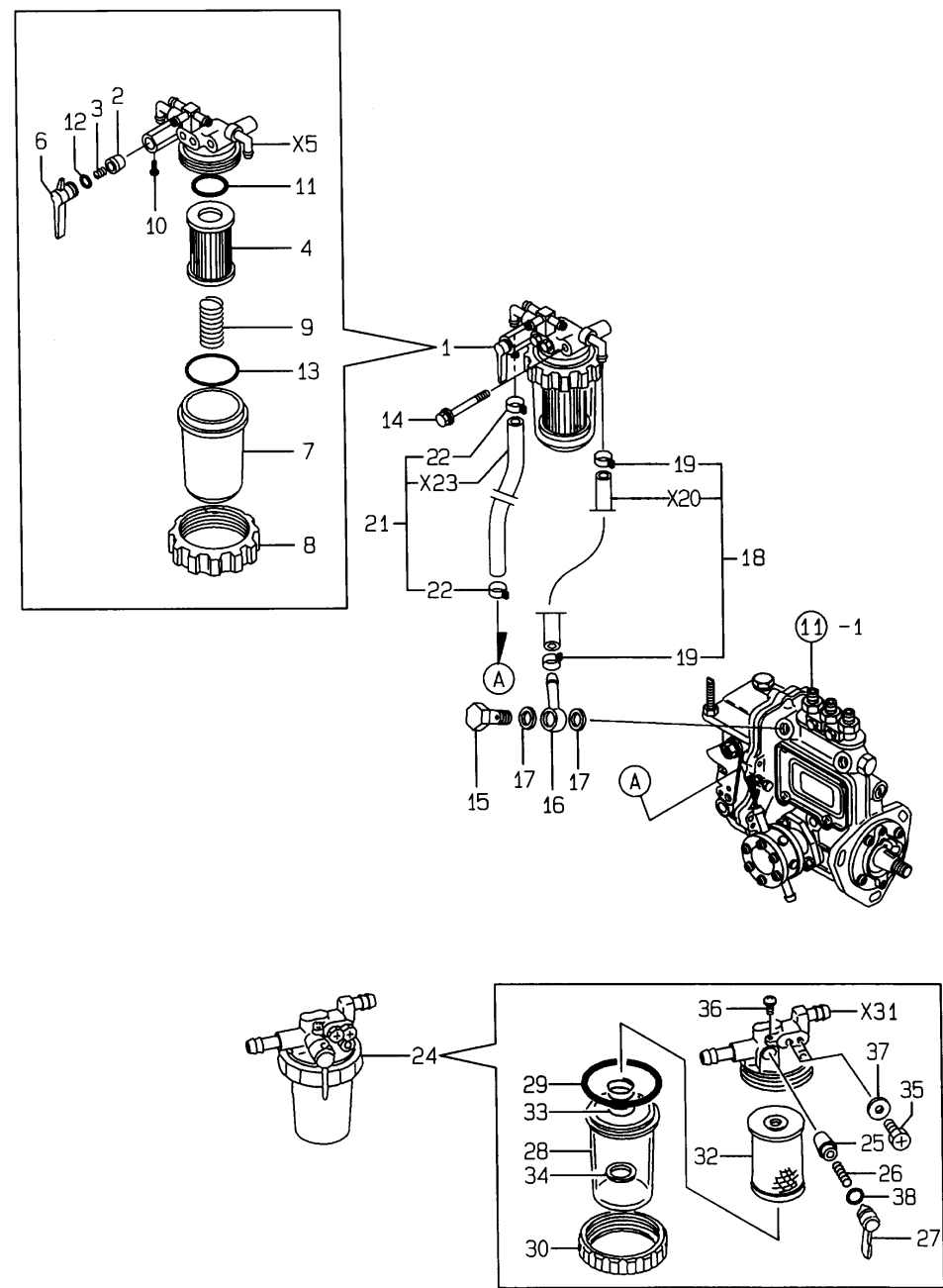


X-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729209-53100	VALVE ASSY,INJECTION	3							
2	2	129209-53000	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							
26	2	129001-59910	PIPE ASSY, INJECTION	1							
27	2	129001-59920	PIPE ASSY, INJECTION	1							
28	2	129001-59930	PIPE ASSY, INJECTION	1							
29	1	121250-59550	PIPE, FUEL D8X120	2							
30	1	119840-59560	PIPE, FUEL RETURN	1							
31	1	119840-59570	JOINT	1							
32	1	129150-59580	CAP	1							
33	1	129100-59951	VALVE ASSY, CHECK	1							
41	1	22190-120002	WASHER, SEAL 12	2							
42	1	129210-59130	PIPE ASSY, FUEL	1							
43	2	124766-59050	CLIP, HOSE 12	2							
45	1	119305-59120	RETAINER, PIPE	2							
48	2	129150-59131	BOLT, M4X14	2							
49	1	124066-59100	CLIP, HOSE 8	7							

Fig.14. FUEL LINE

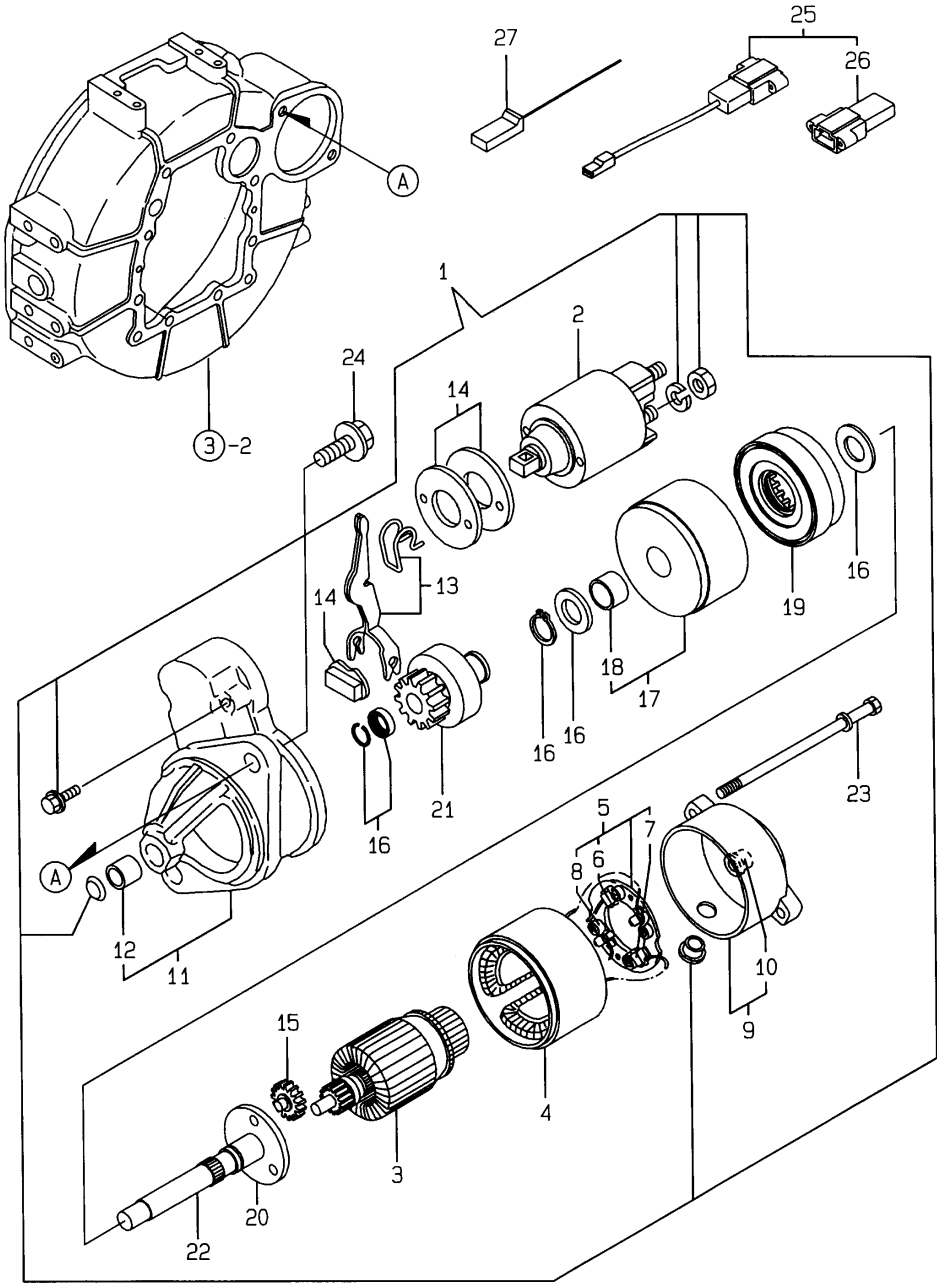
14.FUEL LINE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129052-55620	FILTER ASSY, FUEL	1							
2	2	104200-55321	VALVE, TAPER	1							
3	2	104200-55330	SPRING, VALVE	1							
4	2	129100-55650	ELEMENT	1							
6	2	129100-55670	LEVER	1							
7	2	129100-55680	CUP, STRAINER	1							
8	2	129100-55690	RING, RETAINING	1							
9	2	129100-55700	SPRING	1							
10	2	104200-55750	SCREW, M4	1							
11	2	24311-000160	O-RING, 1AP16.0	1							
12	2	24311-240100	O-RING, 1AP10A	1							
13	2	24321-000650	O-RING, 1AG65.0	1							
14	1	26014-080702	BOLT, M8X 70	1							
15	1	103854-39140	BOLT, PIPE JOINT	1							
16	1	101304-59020	JOINT, PIPE 12	1							
17	1	22190-120002	WASHER, SEAL 12	2							
18	1	129210-59040	PIPE ASSY, FUEL	1							
19	2	124766-59050	CLIP, HOSE 12	2							
21	1	129210-59150	PIPE ASSY, FUEL	1							
22	2	124766-59050	CLIP, HOSE 12	2							
24	1	121850-55800	SEPARATOR ASSY,WATER	1							
25	2	104200-55321	VALVE, TAPER	1							
26	2	104200-55330	SPRING, VALVE	1							
27	2	104200-55341	HANDLE	1							
28	2	121254-55510	COVER	1							
29	2	102103-55520	O-RING	1							
30	2	110250-55610	RING, RETAINING	1							
32	2	121850-55710	SCREEN	1							
33	2	121257-55720	SPRING	1							
34	2	121257-55731	FLOAT	1							
35	2	101720-55750	PLUG, 6	2							
36	2	104200-55750	SCREW, M4	1							
37	2	23418-060000	GASKET, 6X1.0	2							
38	2	24311-240100	O-RING, 1AP10A	1							

Fig.15. STARTING MOTOR

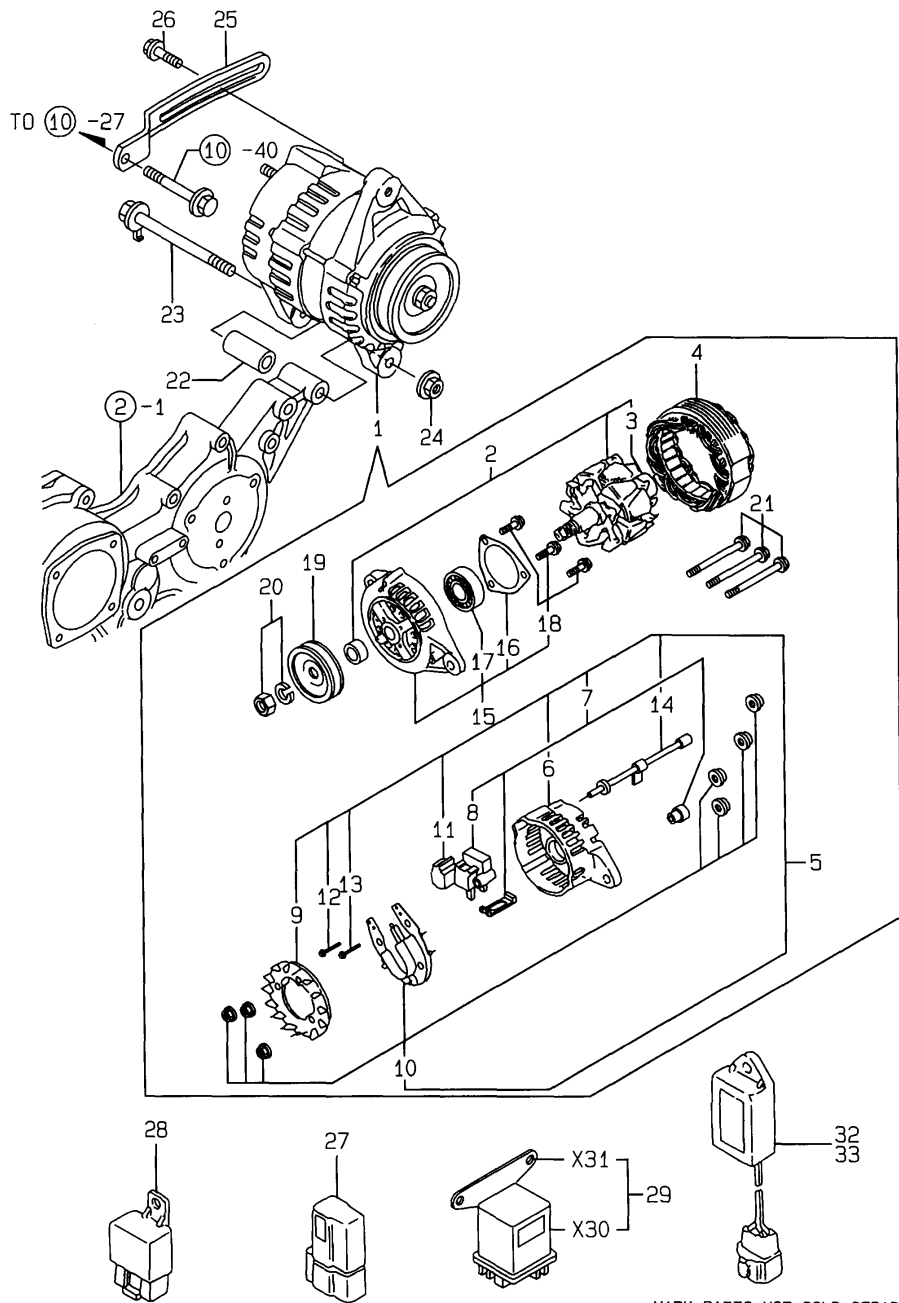
15.STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129698-77010	STARTER, 12V1.2KW	1							
2	2	129698-77020	SWITCH ASSY	1							
3	2	129698-77100	ARMATURE ASSY	1							
4	2	129698-77110	YOKE ASSY	1							
5	2	129698-77120	HOLDER ASSY, BRUSH	1							
6	3	129698-77140	BRUSH SET	1							
7	3	129698-77130	BRUSH	2							
8	3	129698-77150	SPRING, BRUSH	4							
9	2	129698-77160	COVER ASSY	1							
10	3	129698-77170	BEARING	1							
11	2	129698-77260	CASE ASSY	1							
12	3	X2114535200	METAL, STARTER	1							
13	2	129698-77270	LEVER SET, SHIFT	1							
14	2	129698-77280	COVER KIT	1							
15	2	129698-77240	GEAR	3							
16	2	129698-77250	WASHER SET	1							
17	2	129698-77180	BRACKET	1							
18	3	129698-77190	BRACKET	1							
19	2	129698-77200	GEAR, INTERNAL	1							
20	2	129698-77210	BRACKET	1							
21	2	129698-77220	PINION ASSY	1							
22	2	129698-77230	SHAFT	1							
23	2	124195-77770	BOLT, THROUGH	2							
24	1	26116-120252	BOLT, M12X 25 PLATED	2							
25	1	129052-77951	CONNECTOR, STARTER	1							
26	2	129052-77960	HOUSING	1							
27	1	119643-77900	CONNECTOR, STARTER	1							

Fig.16. GENERATOR

16. GENERATOR

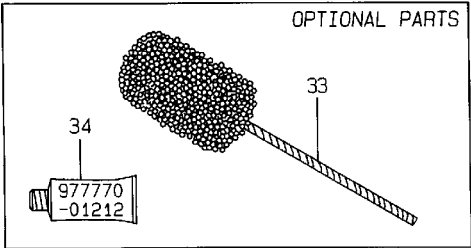
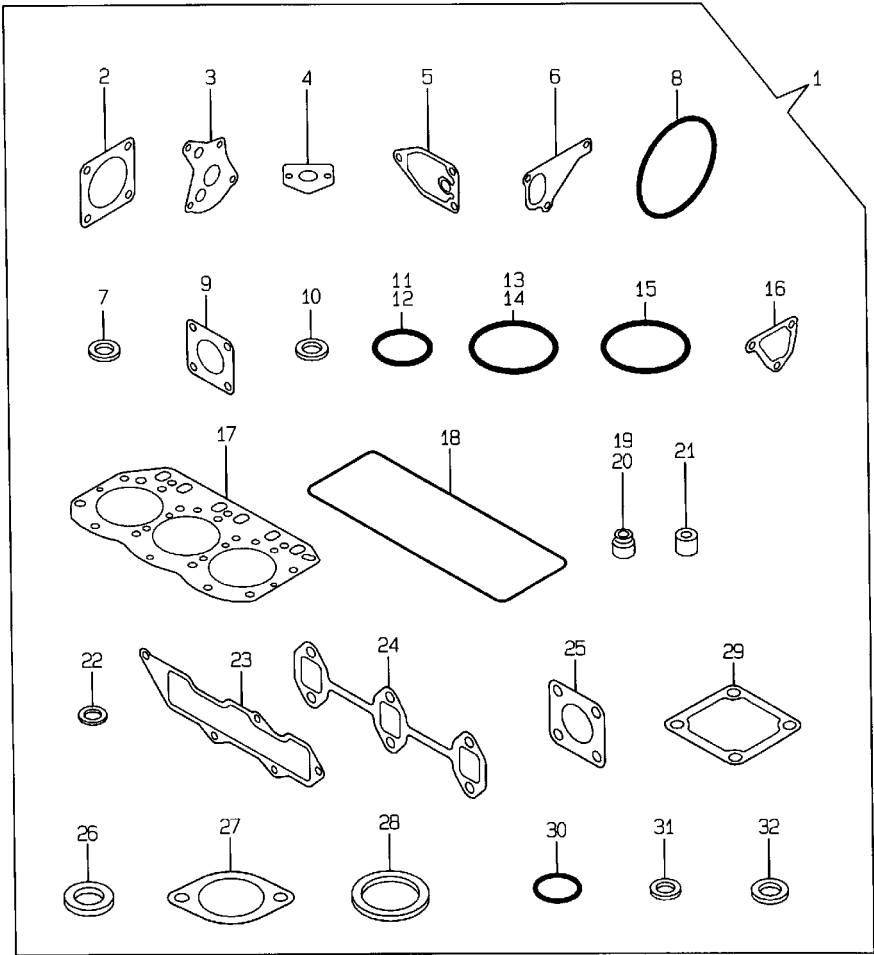


x-MARK PARTS: NOT SOLD SEPARATELY .

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1							
2	2	119836-77700	ROTOR ASSY	1							
3	3	119836-77850	BALL BEARING	1							
4	2	119836-77710	STATOR ASSY	1							
5	2	119836-77721	COVER ASSY, REAR	1							
6	3	119836-77730	COVER, REAR	1							
7	3	119836-77741	BRUSH ASSY,REGULATOR	1							
8	4	119836-77750	BRUSH ASSY	1							
9	3	119836-77760	GUIDE, FAN SIDE	1							
10	3	119836-77770	DIODE ASSY	1							
11	3	119836-77780	CONDENSER	1							
12	3	119836-77871	BOLT (1)	1							
13	3	119836-77880	BOLT (2)	1							
14	3	119836-77890	WIRE ASSY, LEAD	1							
15	2	119836-77790	COVER ASSY, FRONT	1							
16	3	119836-77800	RETAINER, BEARING	1							
17	3	119836-77840	BALL BEARING	1							
18	3	119836-77860	SCREW KID	1							
19	2	119836-77810	PULLEY	1							
20	2	119836-77820	NUT ASSY, PULLEY	1							
21	2	119836-77830	BOLT, THROUGH	1							
22	1	119820-77340	PIECE, DISTANCE	1							
23	1	129136-77251	BOLT, M8X110	1							
24	1	129612-77260	NUT, ALTERNATOR	1							
25	1	129410-77330	ADJUSTER	1							
26	1	119810-77340	BOLT, ADJUSTER	1							
27	1	119643-66900	DIODE	2							
28	1	119247-77100	RELAY, SAFETY	1							
29	1	119650-77910	RELAY ASSY, GLOW	1							
32	1	119632-77920	TIMER	1							
33	1	128300-77920	TIMER	1							

Fig.17. GASKET SET

17.GASKET SET



Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729030-92690	GASKET SET	1							1
2	2	124240-01883	GASKET	1							
3	2	129150-32020	GASKET, PUMP	1							
4	2	129150-35041	GASKET	1							
5	2	129150-35111	GASKET	1							
6	2	129486-42021	GASKET, WATER PUMP	1							
7	2	22190-080002	WASHER, SEAL 6	5							
8	2	121850-51960	O-RING	1							
9	2	124701-11911	GASKET, SILENCER	1							
10	2	23414-100000	GASKET, 10X1.0	2							
11	2	24311-000160	O-RING, 1AP16.0	2							
12	2	24311-000160	O-RING, 1AP16.0	1							
13	2	24341-000240	O-RING, 1AS24.0	1							
14	2	24341-000250	O-RING, 1AS25.0	1							
15	2	24311-000320	O-RING, 1AP32.0	3							
16	2	129100-49840	GASKET	1							
17	2	129001-01340	GASKET, HEAD	1							
18	2	129001-11310	GASKET, BONNET	1							
19	2	121400-11340	SEAL, VALVE STEM	3							
20	2	124460-11340	SEAL, VALVE STEM	3							
21	2	119625-11870	PROTECTOR, NOZZLE	3							
22	2	119625-11880	SEAT, NOZZLE	3							
23	2	129001-12110	GASKET, MANIFOLD	1							
24	2	129150-13110	GASKET	1							
25	2	129400-13201	GASKET, SILENCER	1							
26	2	124465-44950	GASKET, 16	2							
27	2	129795-49551	GASKET	1							
28	2	129150-49811	GASKET, THERMOSTAT	1							
29	2	129150-77511	GASKET	1							
30	2	24311-000120	O-RING, 1AP12.0	3							
31	2	22190-080003	WASHER, SEAL 8	2							
32	2	22190-120002	WASHER, SEAL 12	4							
33	1	129400-92430	HONE	1							1
34	1	977770-01212	GASKET, LIQUID	1							1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	14	16
101720-55750	14	35
102103-55520	14	29
103854-39140	14	15
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