

0CV10-M69700EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE88-EAMM engine manufactured since January, 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)

①

REF.

②

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

(A) (B) (C) (D) (E) (F)

③ ⑤

I R

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	④	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 $\xrightarrow{\text{No}}$	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

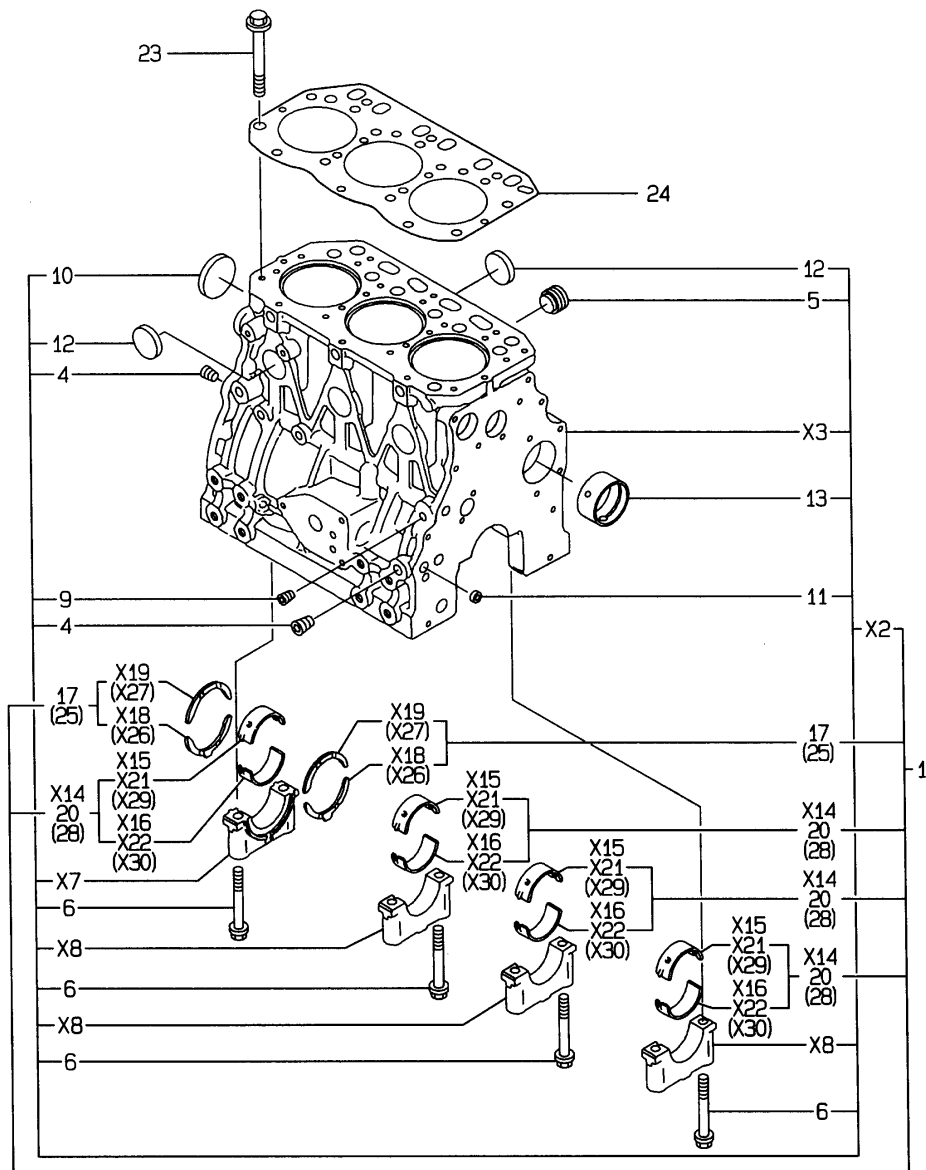
Figures or alphabets (symbols) are entered in the remarks column.

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
3TNE88-EAMM			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
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 INJEVTION VALVE		
14.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

1. CYLINDER BLOCK



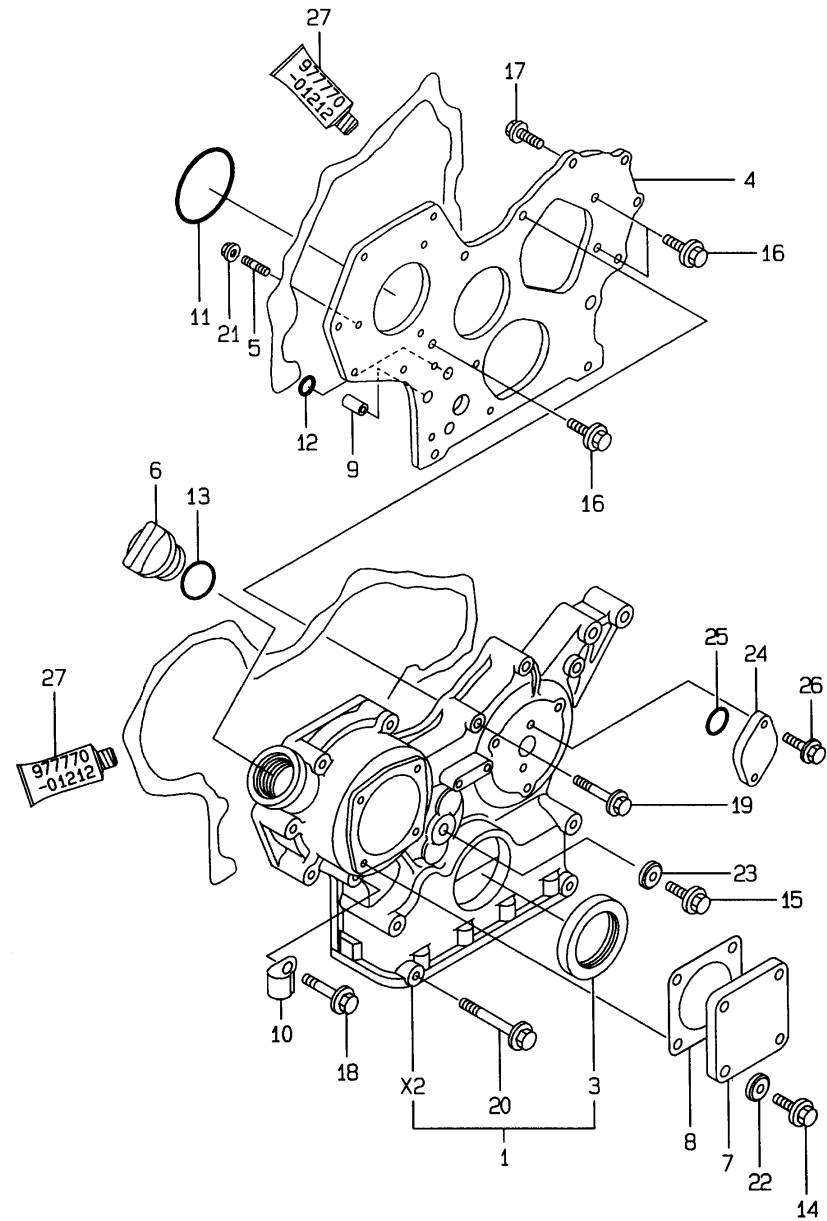
(1) OVER-SIZE(O.S=0.25)PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) REPAIR PART.

(F)=

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	129001-01250	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							

Fig.2. GEAR HOUSING

2.GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129612-01590	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	129001-91841	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	977770-01212	GASKET, LIQUID	1							1

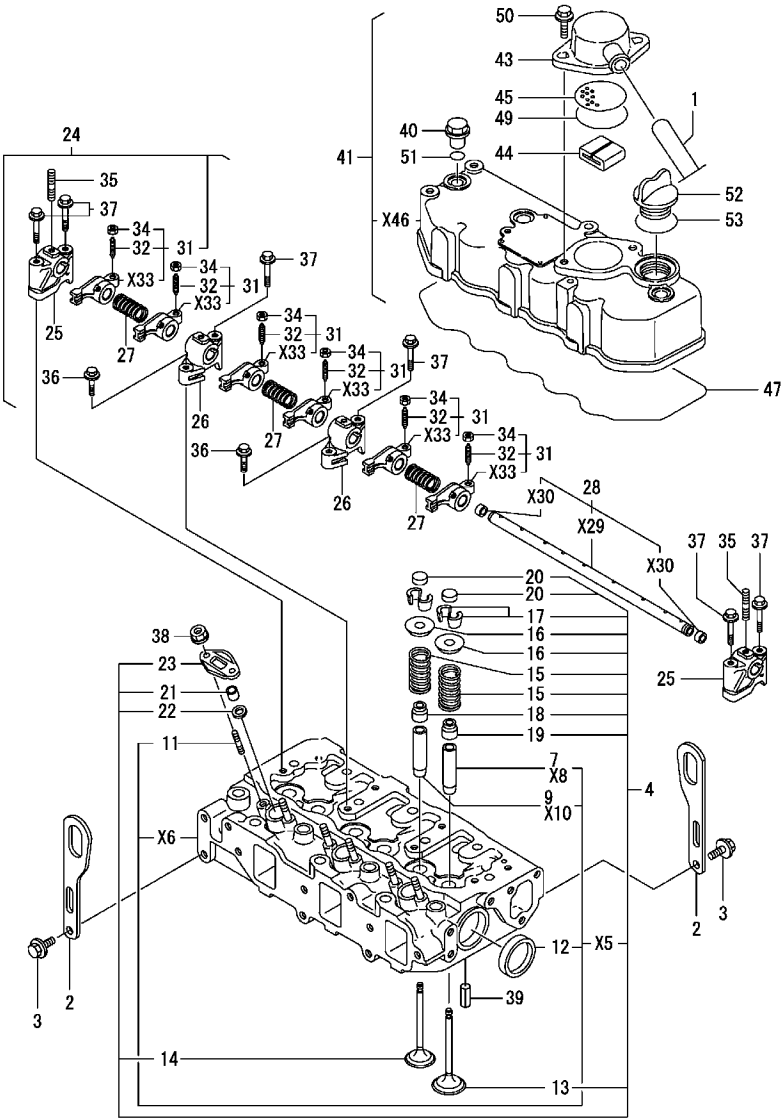
Remarks
(1) OPTIONAL PART.



No.	Lev.	Parts No.	Description	(A)=3TNE88-EAMM (B)= (C)=			(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	Q'ty (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	6							
19	1	977770-01212	GASKET, LIQUID	1							1
20	1	26106-080352	BOLT, M8X 35 PLATED	3							
21	1	26106-080502	BOLT, M8X 50 PLATED	4							W
	(A=FROM 1ST)										

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.4. CYLINDER HEAD & BONNET



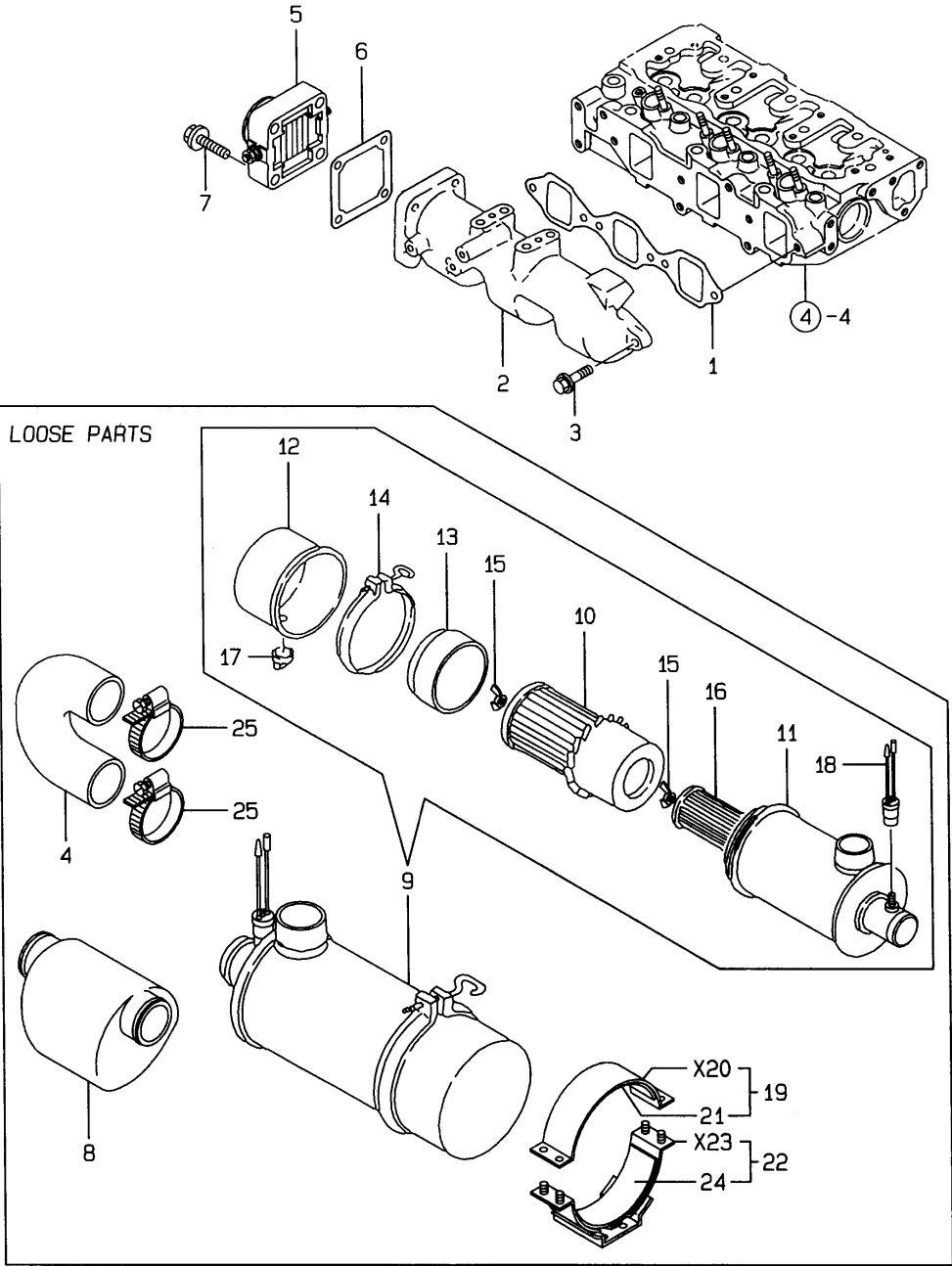
x-MARK PARTS:NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119856-03090	PIPE , BREATHER	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	729132-11521	BONNET ASSY, HEAD	1							
43	2	129150-03020	COVER, BREATHER	1							
44	2	129150-03070	BAFFLE, BREATHER	1							
45	2	129150-03080	PLATE, BAFFLE	1							
47	2	129150-11310	GASKET, BONNET	1							
49	2	24341-000500	O-RING, 1AS50.0	1							
50	2	26106-080162	BOLT, M8X 16 PLATED	2							
51	1	24311-000120	O-RING, 1AP12.0	3							
52	1	124160-01751	COVER, FILLER	1							
53	1	24311-000320	O-RING, 1AP32.0	1							

Remarks
(1) REPAIR PART.

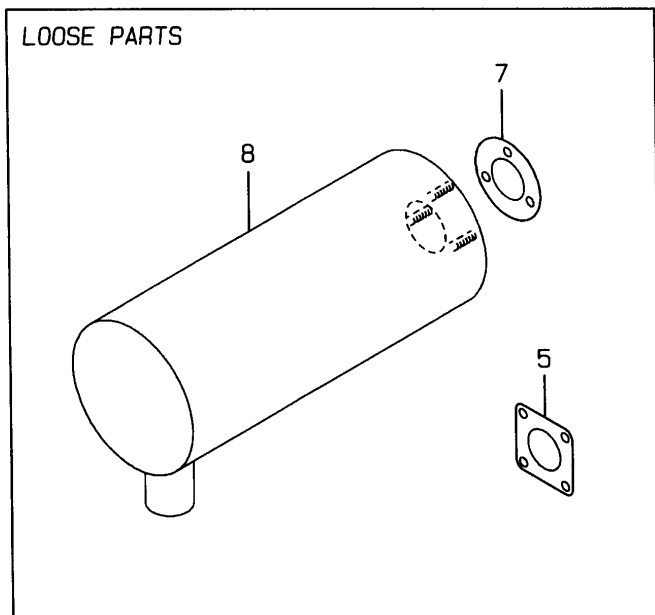
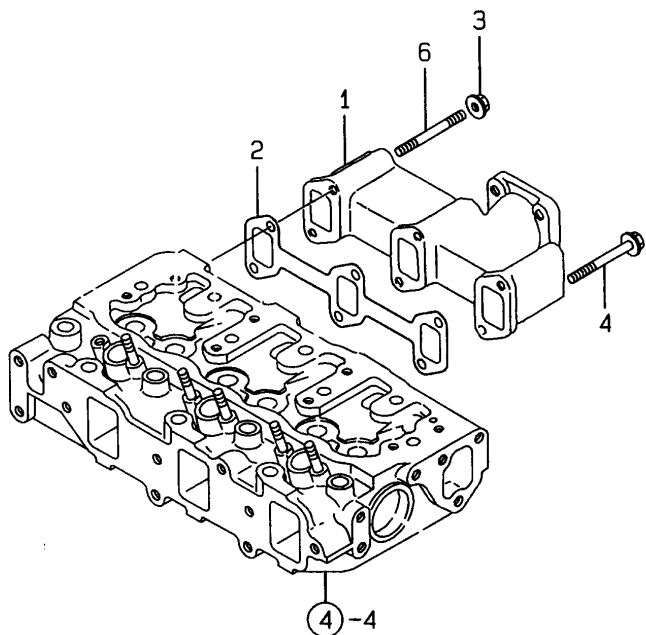
Fig.5. SUCTION MANIFOLD & AIR CLEANER

5.SUCTION MANIFOLD & AIR CLEANER



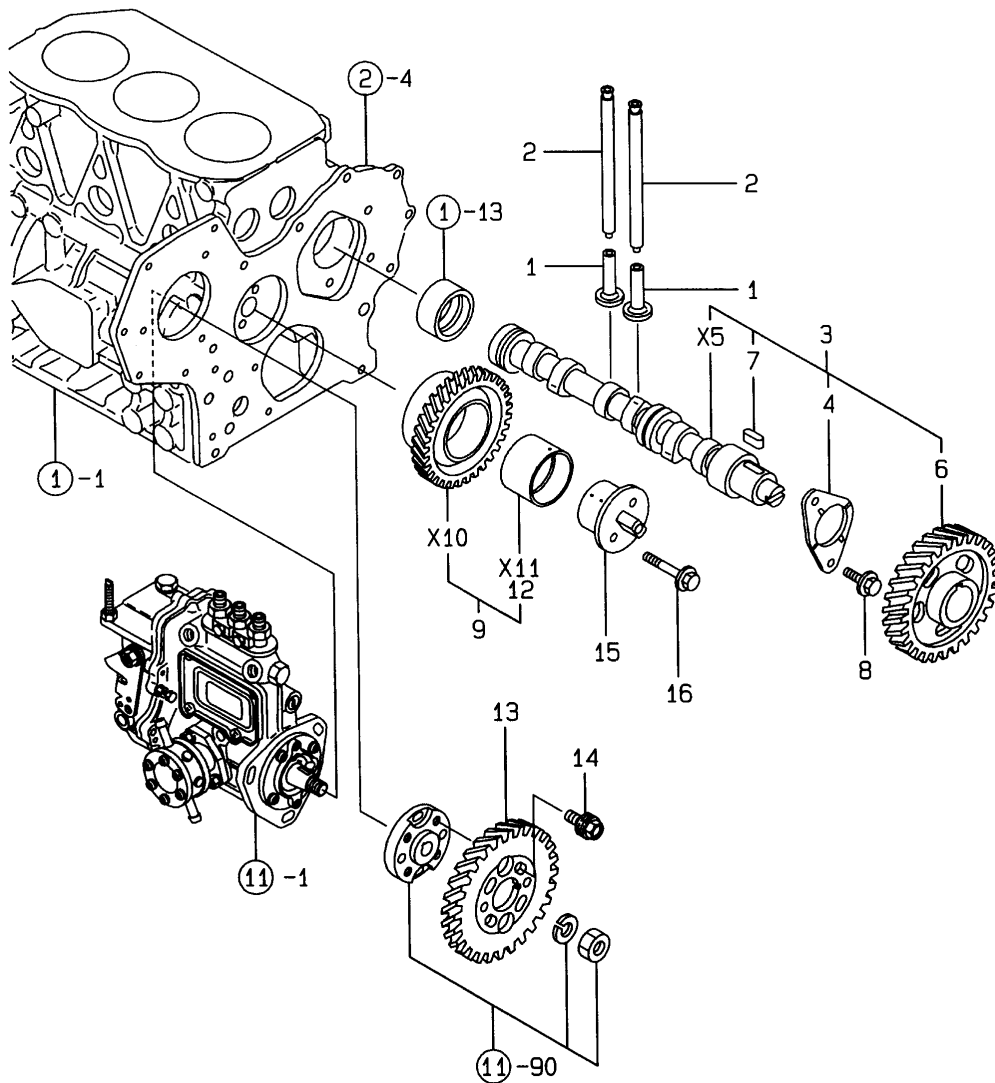
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-12111	GASKET, MANIFOLD	1							
2	1	129122-12100	MANIFOLD, AIR INTAKE	1							
3	1	26106-080252	BOLT, M8X 25 PLATED	4							
4	1	171351-12210	PIPE, AIR INTAKE	1							
5	1	129120-77501	HEATER	1							
6	1	129150-77511	GASKET	1							
7	1	26106-080352	BOLT, M8X 35 PLATED	4							
8	1	121855-12060	SILENCER ASSY	1							
9	1	119687-12500	CLEANER ASSY, AIR	1							
10	2	121420-12511	ELEMENT	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	171351-12580	SUPPORT ASSY,CLEANER	1							
24	2	171351-12570	SEAT, RUBBER	1							
25	1	23000-060000	CLAMP, 60	6							

6. EXHAUST MANIFOLD & SILENCER



No.	Lev.	Parts No.	Description	(A)=3TNE88-EAMM		(D)=		(E)=		I	R
				(B)=	(C)=	(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	124701-11911	GASKET, SILENCER			1					
6	1	26216-080802	STUD, M8X 80			2					
7	1	103954-13201	GASKET, SILENCER			1					
8	1	129131-13520	SILENCER			1					

7.CAMSHAFT & DRIVING GEAR



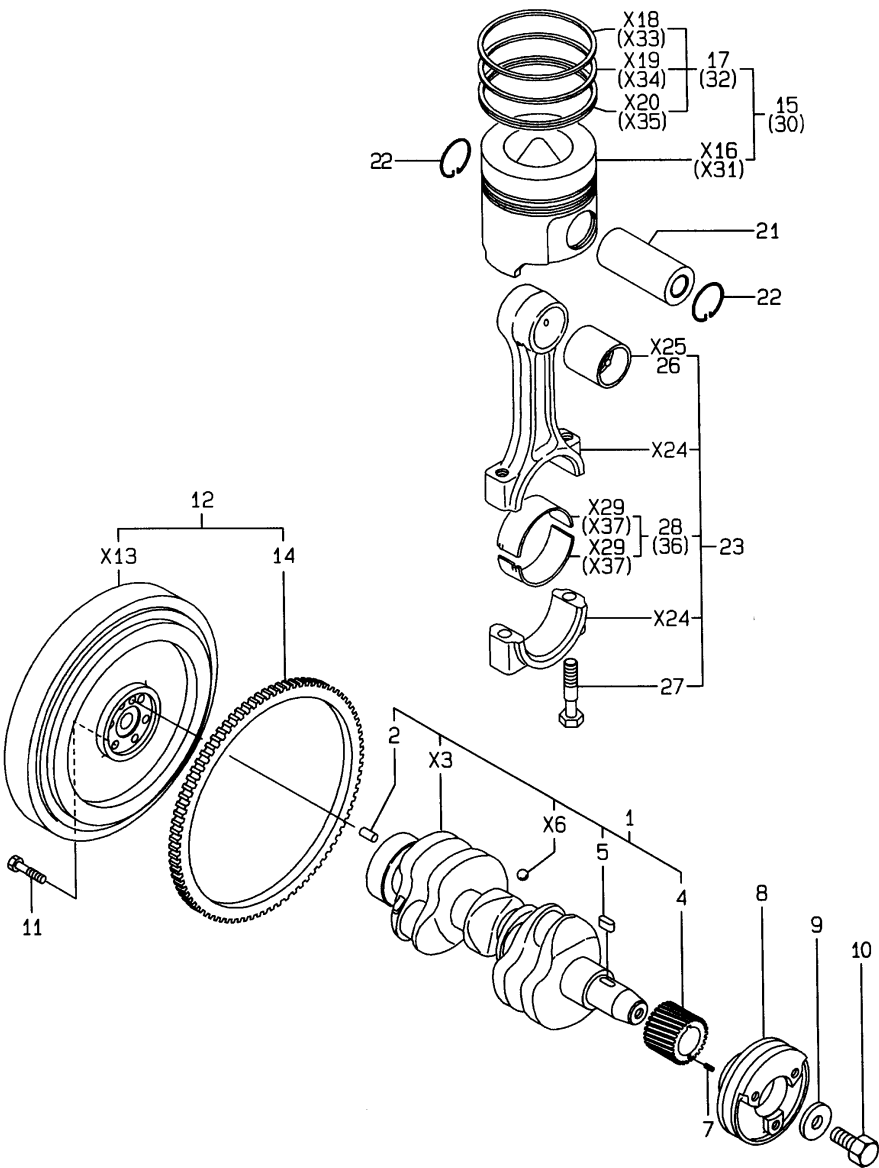
				(A)=3TNE88-EAMM (B)= (C)=					(D)= (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH L=178	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
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 $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.8. CRANKSHAFT & PISTON

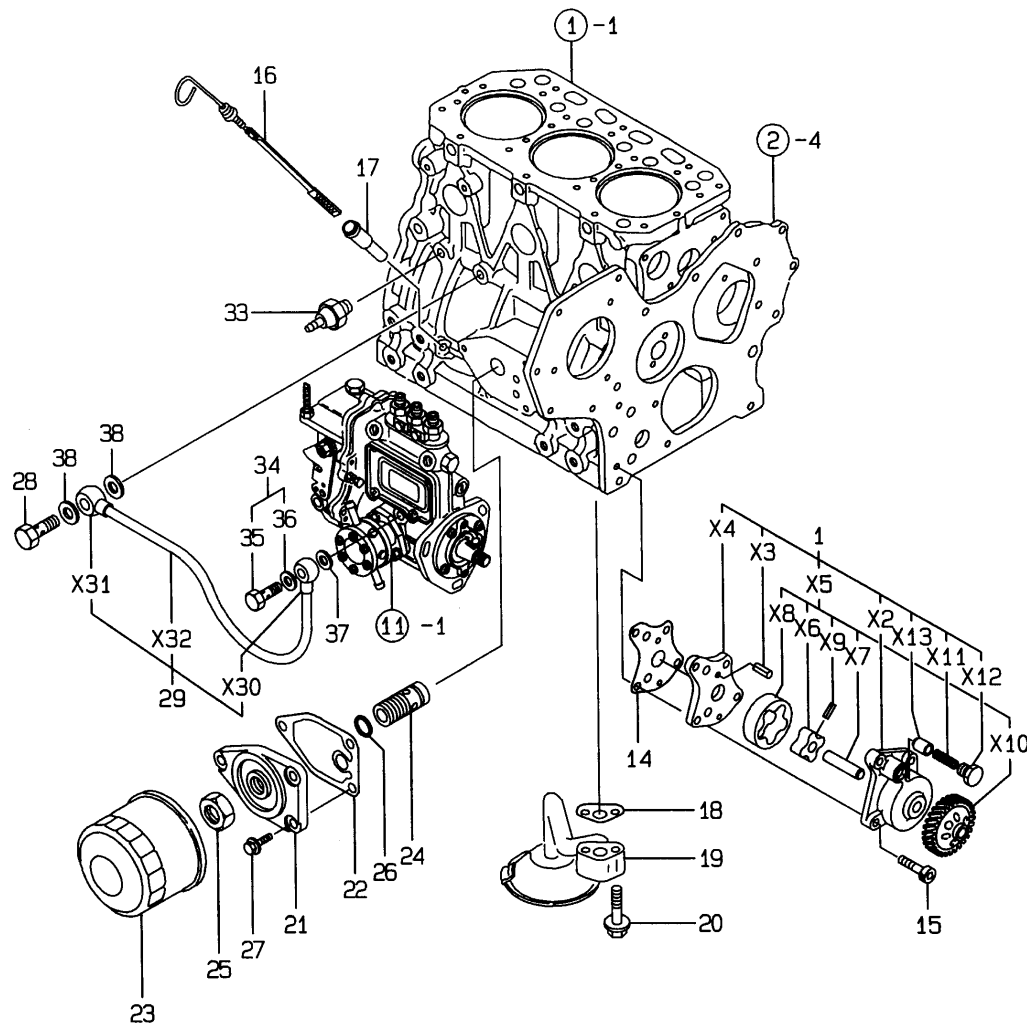
8.CRANKSHAFT & PISTON



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-21000	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	171340-21650	V-PULLEY	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129128-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	129001-22070	PISTON ASSY	3							
17	2	129001-22500	RING SET, PISTON	3							
21	1	129202-22300	PIN, PISTON D26 L70	3							
22	1	22252-000260	RING, 26	6							
23	1	729402-23100	ROD ASSY, CONNECTING	3							
26	2	129100-23910	BEARING, PISTON PIN	3							1
27	2	121550-23200	BOLT, CONNECTING ROD	6							
28	2	129150-23600	BEARING, CRANK PIN	3							
30	1	129001-22930	PISTON ASSY, 0.25 OS	3							2
32	2	129001-22950	RING SET, 0.25 OS	3							2
36	1	129150-23610	BEARING, 0.25 US	3							3

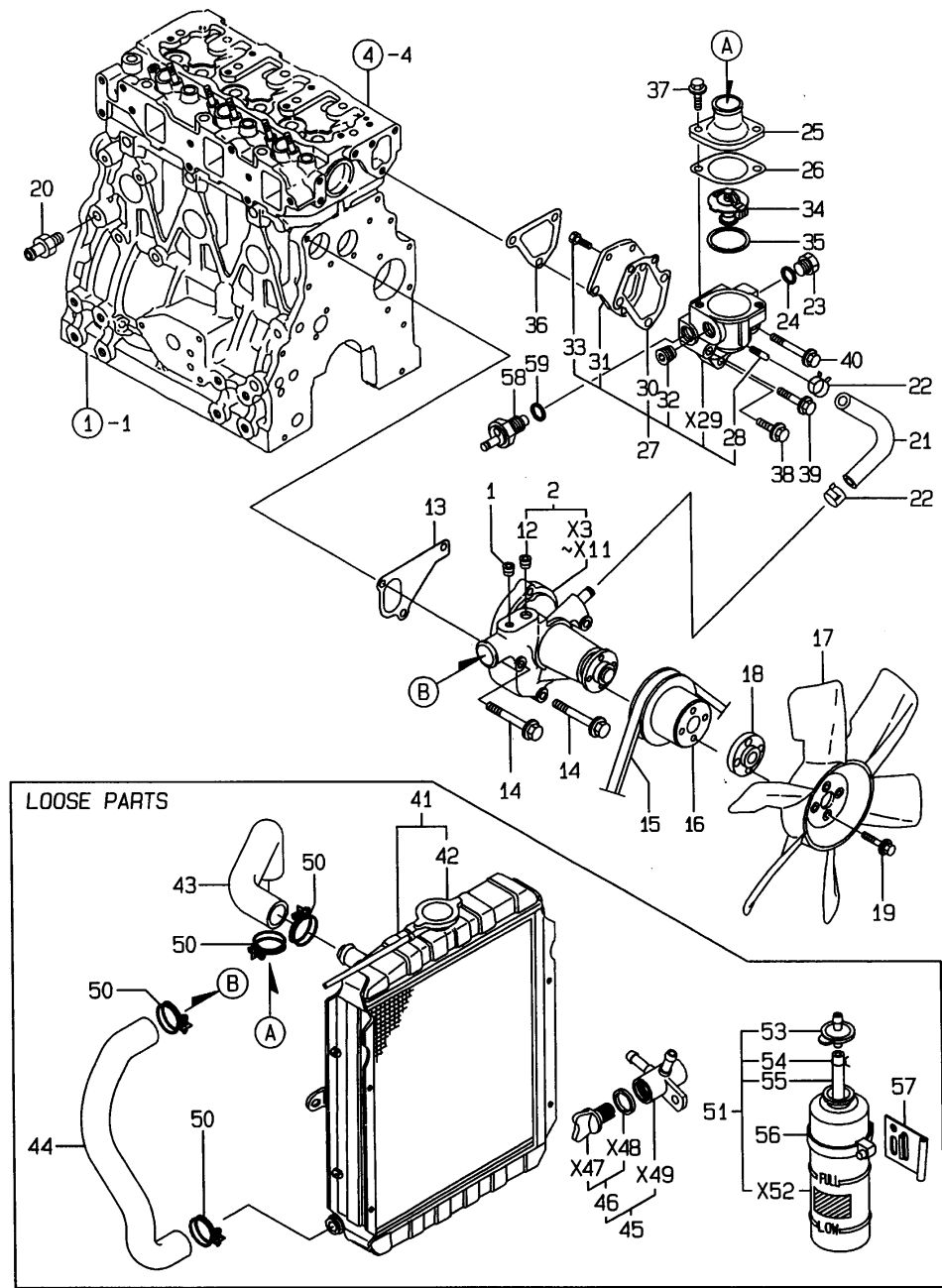
9.LUB.OIL SYSTEM



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	114250-39450	SWITCH, 0.5KG	1							
34	1	124550-59830	BOLT ASSY, JOINT M8	1							
35	2	124550-59820	BOLT, PIPE JOINT M8	1							
36	2	22190-080002	WASHER, SEAL 6	1							
37	1	22190-080002	WASHER, SEAL 6	1							
38	1	22190-100002	WASHER, SEAL 10	2							

Fig.10. COOLING WATER SYSTEM

10.COOLING WATER SYSTEM

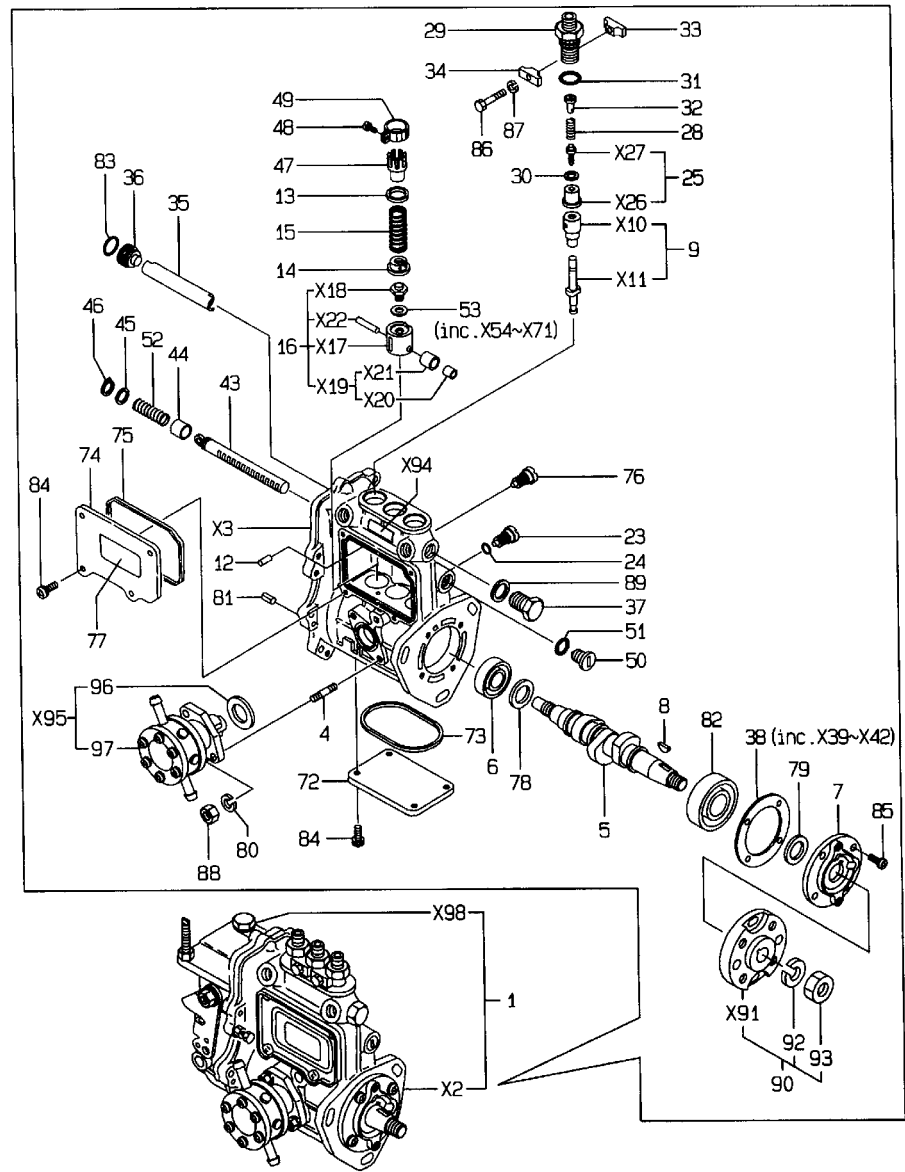


x-MARK PARTS: NOT SOLD SEPARATELY.

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	129100-42004	PUMP ASSY, WATER	1							
12	2	23876-030000	PLUG, R03	1							
13	1	129486-42021	GASKET, WATER PUMP	1							
14	1	26106-080602	BOLT, M8X 60 PLATED	3							
15	1	124722-42290	V-BELT, A40	1							
16	1	129403-42380	V-PULLEY, D=110	1							
17	1	129354-44740	FAN, COOLING	1							
18	1	129350-44760	SPACER	1							
19	1	26014-060252	BOLT, M6X 25	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	171440-44500	RADIATOR	1							
42	2	123682-44210	CAP, RADIATOR	1							
43	1	171301-49010	PIPE, WATER	1							
44	1	171301-49020	PIPE, WATER	1							
45	1	129150-49100	COCK ASSY, 3-WAY	1							
46	2	129150-49080	COCK, DRAIN	1							
50	1	23010-038000	CLAMP, 38	4							
51	1	124450-44510	TANK ASSY, SUB	1							
53	2	124450-44530	CAP	1							
54	2	124450-44560	RETAINER	1							
55	2	23061-070230	PIPE, 7X 230	1							
56	1	124450-44550	BAND	1							
57	1	121256-44600	BRACKET, SUB TANK	1							
58	1	121250-44901	SWITCH, 110	1							
59	1	124465-44950	GASKET, 16	1							

Fig.11. FUEL INJECTION PUMP

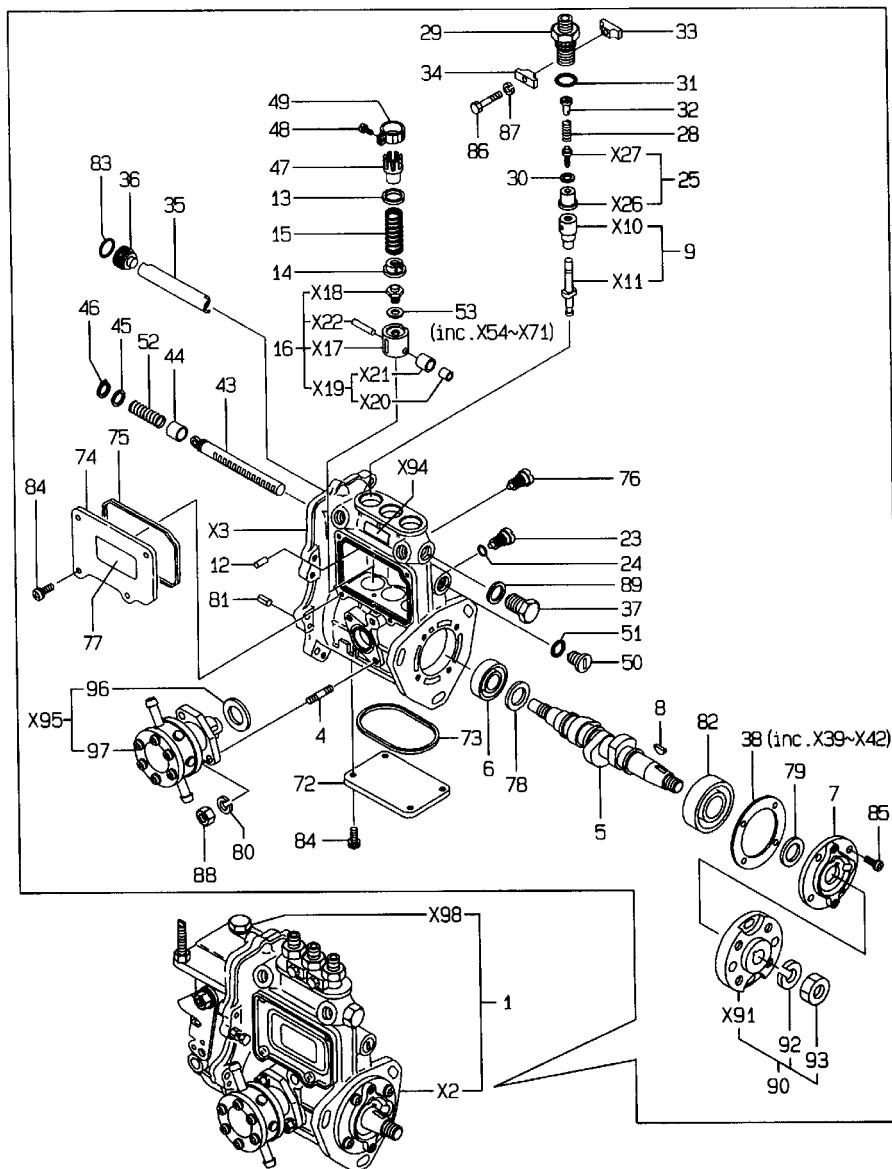
11.FUEL INJECTION PUMP



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	729130-51450	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	129155-51701	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	22217-060000	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	26022-050122	SCREW, M5X12	8							
85	3	26022-060162	SCREW, M6X16	4							

11.FUEL INJECTION PUMP



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

Q'ty

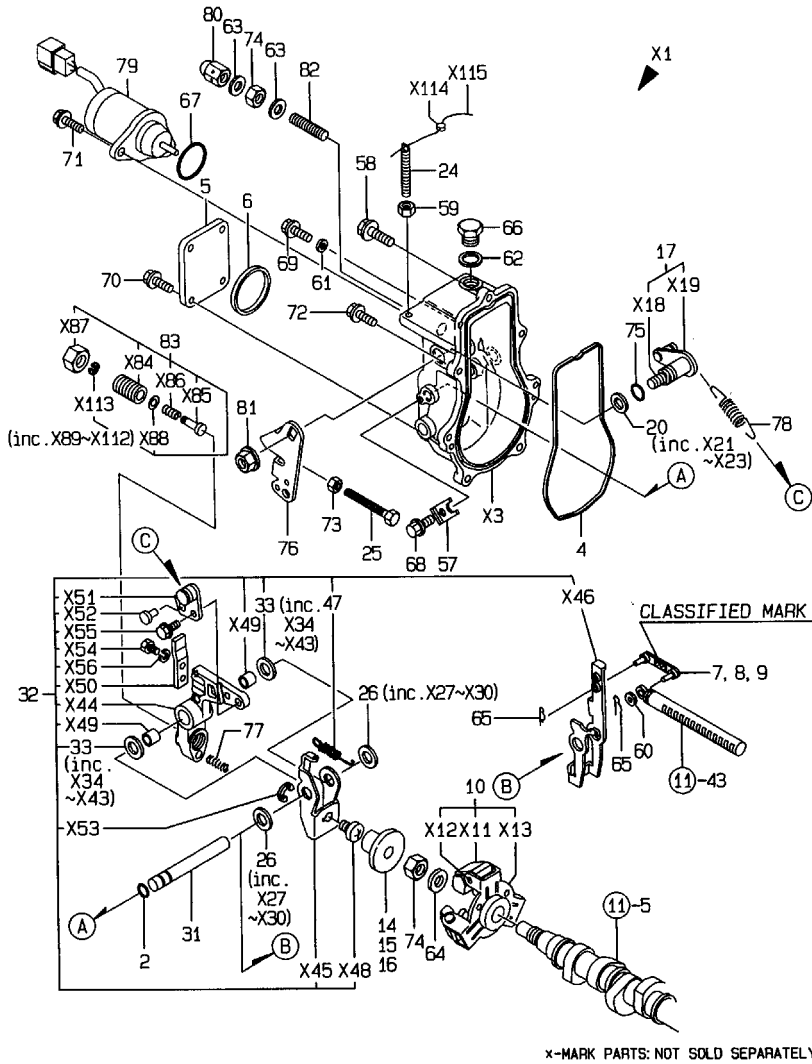
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
86	3	26116-050302	BOLT, M5X 30 PLATED	2							
87	3	22217-050000	WASHER, SPRING 5	2							
88	3	26716-060002	NUT, M6	2							
89	3	22190-160002	WASHER, SEAL 16	1							
90	3	129208-54500	FLANGE ASSY	1							
92	4	22217-120000	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							

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

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Fig.12. GOVERNOR

12. GOVERNOR

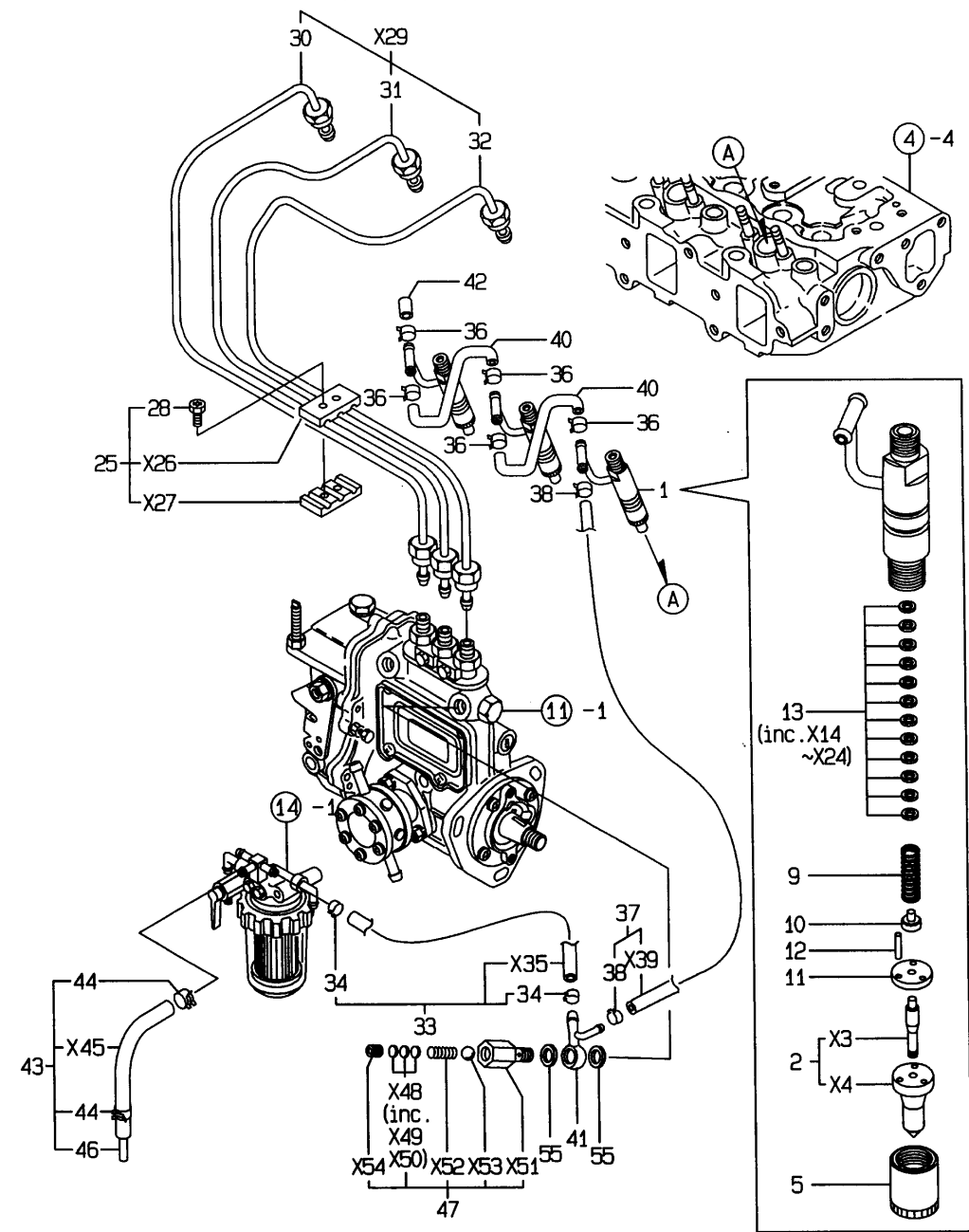


Remarks
(1) SELECTIVE PARTS: CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(REFER TO ILLUSTRATION).
(2) SELECTIVE PARTS.
* THIS FIGURE(GOVERNOR ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.11).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	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	129486-61201	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	119908-61500	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)=EXXXXX)											
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	129100-61440	LEVER, CONTROL	1							
77	2	129100-61650	SPRING, CONTROLLER	1							
78	2	171353-61710	SPRING, GOVERNOR	1							
79	2	119653-77950	SOLENOID, STOP	1							
80	2	129100-61930	NUT, CAP	1							
81	2	26366-080002	NUT, M8	1							
82	2	120323-61470	BOLT, CONTROL	1							
83	2	171353-61550	ANGLEICH ASSY	1							

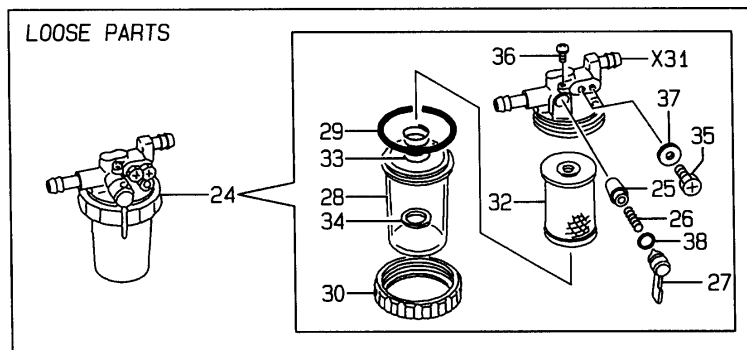
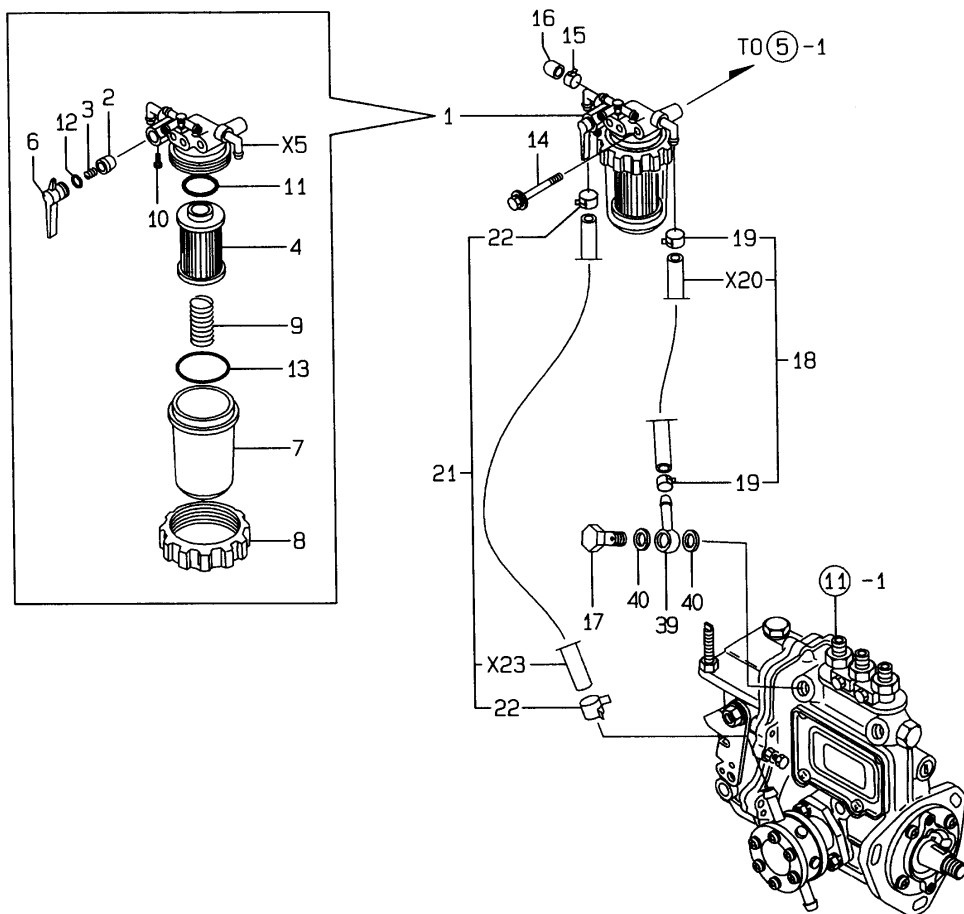
Fig.13. FUEL INJEVTION VALVE

13.FUEL INJECTION VALVE



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							
25	1	129150-59120	RETAINER, PIPE	1							
28	2	129150-59131	BOLT, M4X14	2							
30	2	129211-59810	PIPE ASSY, INJECTION	1							
31	2	129211-59820	PIPE ASSY, INJECTION	1							
32	2	129211-59830	PIPE ASSY, INJECTION	1							
33	1	129210-59130	PIPE ASSY, FUEL	1							
34	2	124766-59050	CLIP, HOSE 12	2							
36	1	124066-59100	CLIP, HOSE 8	7							
37	1	119840-59500	PIPE ASSY, RETURN	1							
38	2	124066-59100	CLIP, HOSE 8	2							
40	1	121250-59550	PIPE, FUEL D8X120	2							
41	1	119840-59570	JOINT	1							
42	1	129150-59580	CAP	1							
43	1	119840-59601	BEND	1							
44	2	124766-59050	CLIP, HOSE 12	2							
46	2	119840-59621	JOINT	1							
47	1	129100-59951	VALVE ASSY, CHECK	1							
55	1	22190-120002	WASHER, SEAL 12	2							

14. FUEL LINE



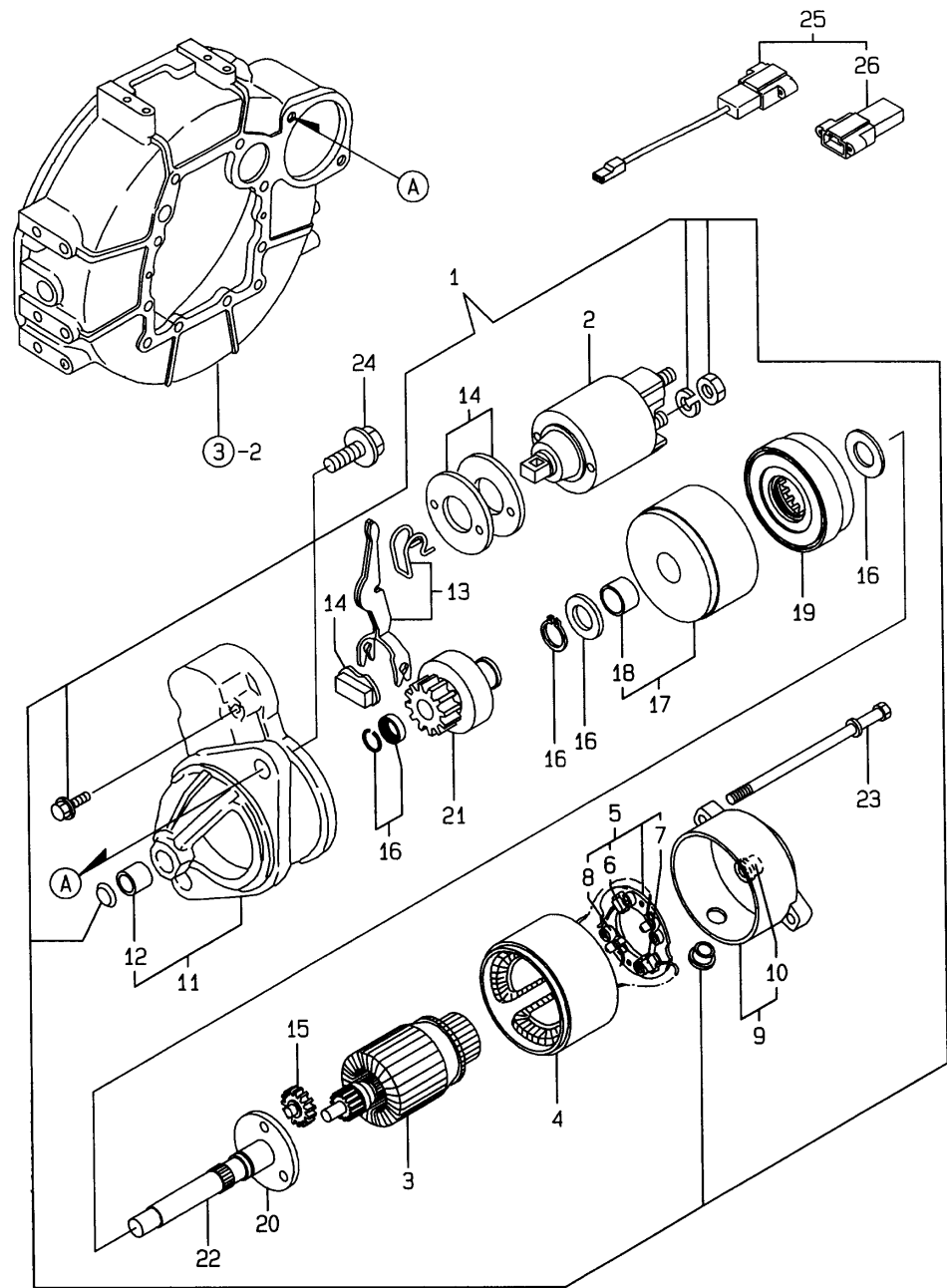
X-MARK PARTS: NOT SOLD SEPARATELY.

				(A)=3TNE88-EAMM				(D)=			
				(B)=				(E)=			
				(C)=				(F)=			
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-55621	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	124066-59100	CLIP, HOSE 8	1							
16	1	129150-59580	CAP	1							
17	1	103854-39140	BOLT, PIPE JOINT	1							
18	1	129210-59030	PIPE ASSY, FUEL	1							
19	2	124766-59050	CLIP, HOSE 12	2							
21	1	129210-59130	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							
39	1	101304-59020	JOINT, PIPE 12	1							
40	1	22190-120002	WASHER, SEAL 12	2							

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.15. STARTING MOTOR

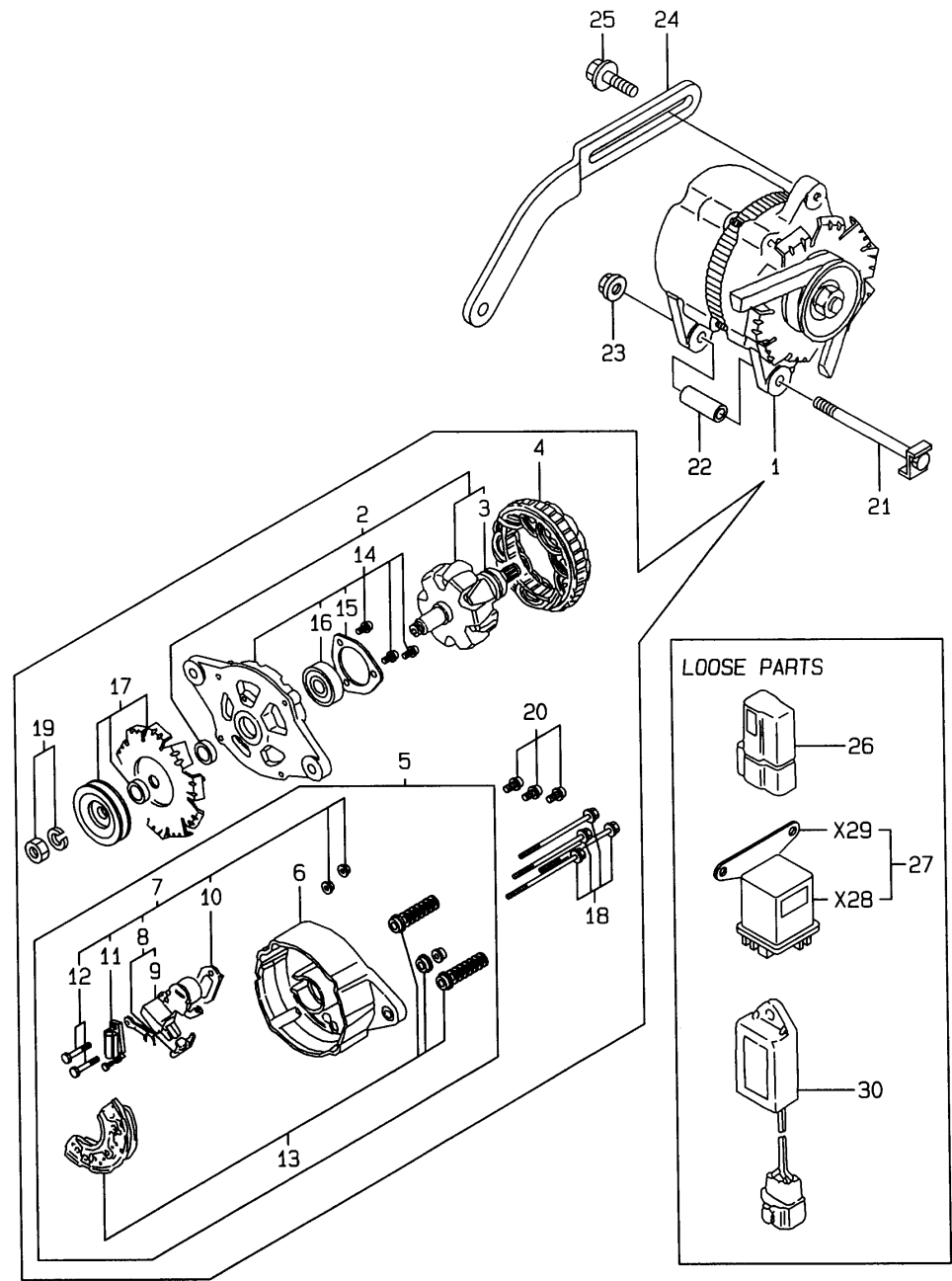
15.STARTING MOTOR



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							

Fig.16. GENERATOR

16.GENERATOR

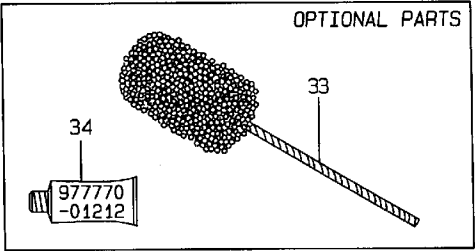
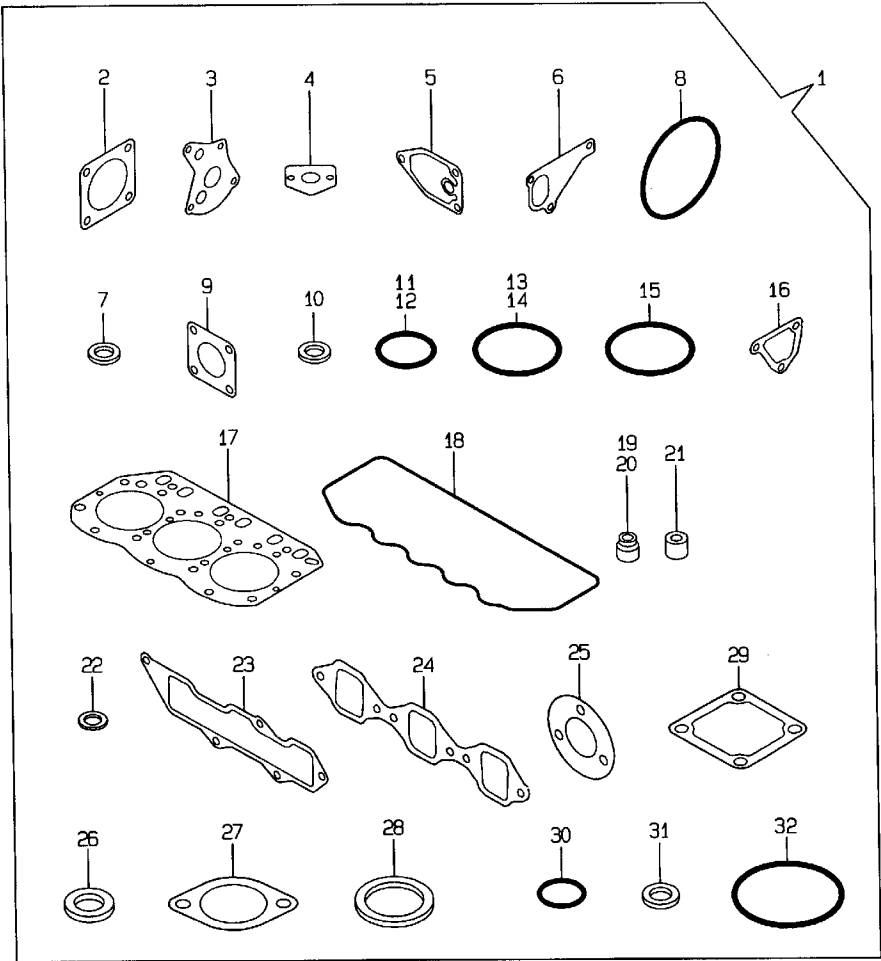


x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129772-77200	GENERATOR(12V-55A)	1							
2	2	XL15571001	ROTOR ASSY	1							
3	3	X6201SD	BALL BEARING	1							
4	2	XL15542001	STATOR ASSY	1							
5	2	XL15553002	COVER ASSY, REAR	1							
6	3	XL22553012	COVER, REAR	1							
7	3	XL1556315	REGULATOR ASSY,BRUSH	1							
8	4	XL2255330	BRUSH ASSY	1							
9	4	XL12013262	BRUSH	2							
10	4	XTR1Z63	REGULATOR	1							
11	4	XL2251318	CONDENCER ASSY	1							
12	4	XL13513134	BOLT M5	2							
13	3	XL2253320	DIODE ASSY	1							
14	2	XL2253400	FRONT COVER ASSY	1							
15	3	XL15014042	BEARING RETAINER	1							
16	3	X6203BM	BALL BEARING	1							
17	2	XL22555001	PULLEY ASSY	1							
18	2	XL15018015	BOLT, THROUGH	4							
19	2	XL1501810	NUT ASSY, PULLEY	1							
20	2	XL15028001	SCREW ASSY	1							
21	1	129002-77280	BOLT ASSY	1							
22	1	129002-77340	PIECE, DISTANCE	1							
23	1	26366-100002	NUT, M10	1							
24	1	129470-77330	ADJUSTER, BELT	1							
25	1	119810-77340	BOLT, ADJUSTER	1							
26	1	119643-66900	DIODE	1							
27	1	119650-77910	RELAY ASSY, GLOW	1							
30	1	119632-77920	TIMER	1							

Fig.17. GASKET SET

17. GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729030-92710	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	7							
8	2	121850-51960	O-RING	1							
9	2	124701-11911	GASKET, SILENCER	1							
10	2	22190-100002	WASHER, SEAL 10	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	2							
16	2	129100-49840	GASKET	1							
17	2	129001-01340	GASKET, HEAD	1							
18	2	129150-11310	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	129150-12111	GASKET, MANIFOLD	1							
24	2	129150-13110	GASKET	1							
25	2	103954-13201	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	22190-120002	WASHER, SEAL 12	4							
32	2	24341-000500	O-RING, 1AS50.0	1							
33	1	129400-92430	HONE	1							1
34	1	977770-01212	GASKET, LIQUID	1							1

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