

0CV10-M61301EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 4TNE84 - EMS engine manufactured since January, 1999 & 4TNE84 - EMSA engine manufactured since April, 1999.

2. Parts catalog history

	Parts catalog No.	Published	Remarks
1st edition	000Y00V6130	1999/2	Disuse old edition
1st revised	000Y00V6131	1999/7	

3. Model name

Column	Model name	Manufactured	E/#
(A)	4TNE84 - EMS	1999/1 ~	13430 ~
(B)	4TNE84 - EMSA	1999/4 ~	14542 ~

4. Each illustration corresponds to the parts list on the following page.

5. 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

③

I

⑤

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	④	2	26022-060162	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

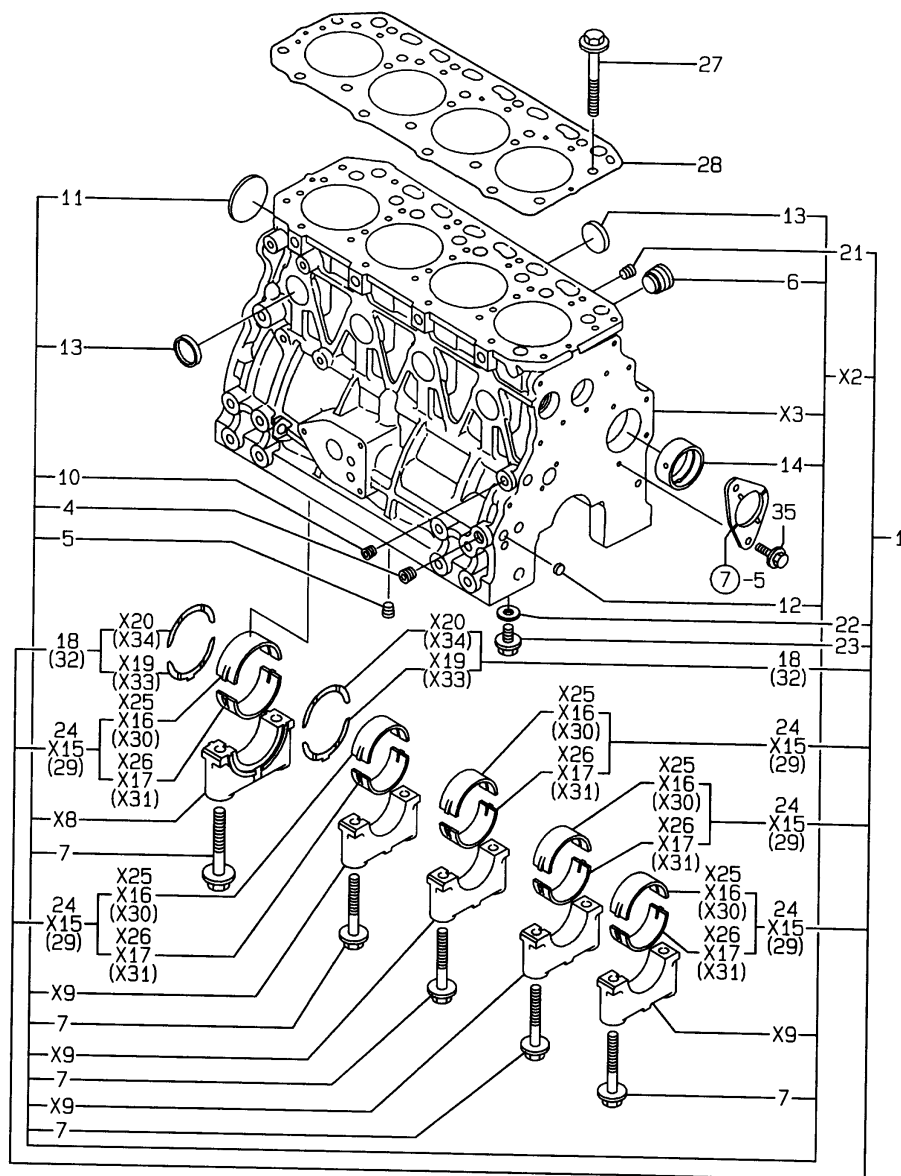
Figures or alphabets (symbols) are entered in the remarks column.

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
4TNE84-EMS(A)			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD		
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.	FUEL LINE		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	GASKET SET		

1. CYLINDER BLOCK



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

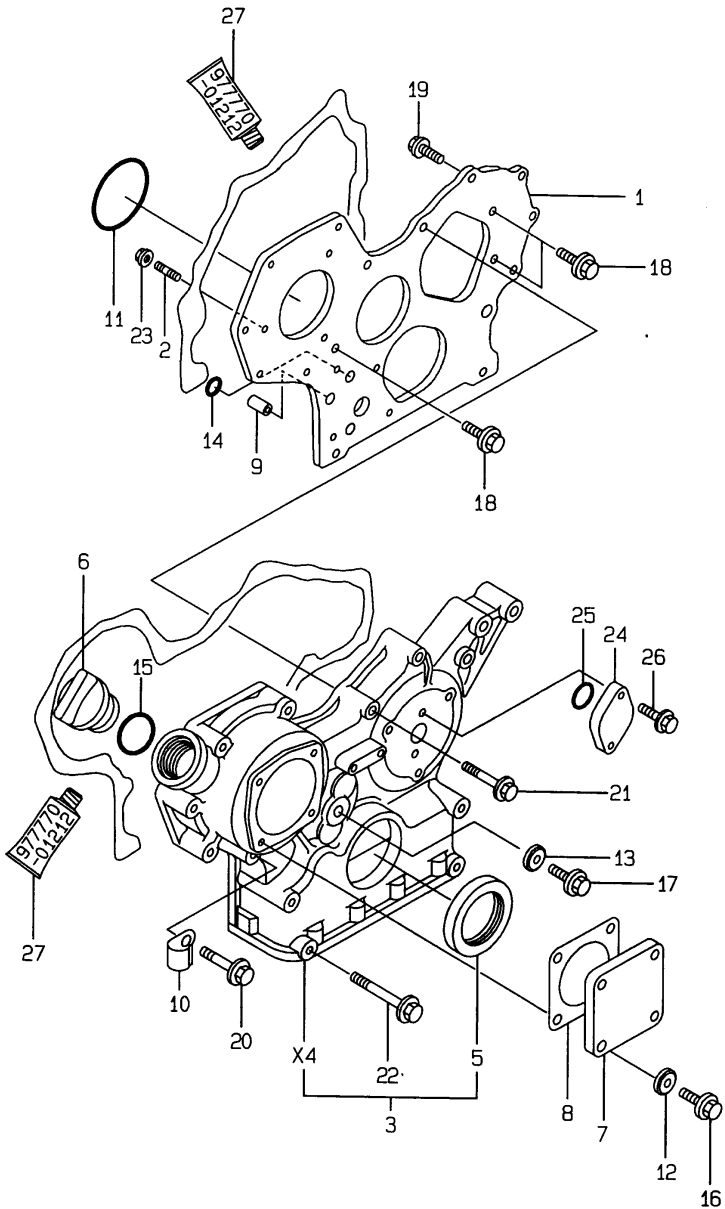
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729408-01560	BLOCK ASSY, CYLINDER	1	1						
4	3	124160-01910	PLUG, PT1/4	2	2						
5	3	124160-01910	PLUG, PT1/4	1	1						
6	3	171051-01921	PLUG, NPTF1	1	1						
7	3	129150-02020	BOLT, METAL CAP	10	10						
10	3	23871-010000	PLUG, R01	1							
10-1	3	23876-010000	PLUG, R01	1	1						N
	(A=EXXX)										
11	3	27231-500000	PLUG 50	1	1						
12	3	27241-120000	PLUG, 12	2	2						
13	3	27241-300000	PLUG 30	8	8						
14	3	129795-02411	BUSH, CAMSHAFT	1	1						
18	2	129150-02930	BEARING, THRUST	2	2						
21	2	23871-030000	PLUG, R03	1							
21-1	2	23876-030000	PLUG, R03	1	1						N
	(A=EXXX)										
22	2	23414-080000	GASKET, 8X1.0	4	4						
23	2	26106-080122	BOLT, M8X 12 PLATED	4	4						
24	2	129001-02930	BEARING, MAIN	5	5						3
27	1	129150-01200	BOLT, HEAD	18	18						
28	1	129408-01330	GASKET, HEAD	1	1						
29	1	129150-02870	BEARING, 0.25 US	5	5						1
32	1	129150-02940	BEARING, THRUST 0.25	2	2						2
35	1	26106-080162	BOLT, M8X 16 PLATED	2	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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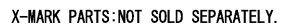
Fig.2. GEAR HOUSING

2.GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-01520	FLANGE, GEAR CASE	1	1						
2	1	121450-01560	STUD, M8X22	3	3						
3	1	719810-01500	CASE ASSY, GEAR	1	1						
5	2	129795-01800	SEAL, OIL	1	1						
6	1	124160-01751	COVER, FILLER	1	1						
7	1	124240-01871	COVER	1	1						
8	1	124240-01883	GASKET	1	1						
9	1	129795-01950	PIPE, KNOCK L=18	2	2						
10	1	129150-03100	RETAINER, PIPE	1	1						
11	1	121850-51960	O-RING	1	1						
12	1	22190-080002	WASHER, SEAL 6	4	4						
13	1	22190-080002	WASHER, SEAL 6	1	1						
14	1	24311-000160	O-RING, 1AP16.0	2	2						
15	1	24311-000320	O-RING, 1AP32.0	1	1						
16	1	26106-080122	BOLT, M8X 12 PLATED	4	4						
17	1	26106-080162	BOLT, M8X 16 PLATED	1	1						
18	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
19	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
20	1	26106-080452	BOLT, M8X 45 PLATED	6	6						
21	1	26106-080552	BOLT, M8X 55 PLATED	3	3						
22	1	129001-91840	BOLT, M8X85	4	4						
23	1	26366-080002	NUT, M8	3	3						
24	1	121023-01550	COVER	1	1						
25	1	24341-000240	O-RING, 1AS24.0	1	1						
26	1	26106-060162	BOLT, M6X 16 PLATED	2	2						
27	1	977770-01212	GASKET, LIQUID	1	1						1

Remarks
(1) OPTIONAL PART.



Remarks
(1) OPTIONAL PART.

(A)=4TNE84-EMS
(B)=4TNE84-EMSA
(C)=

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

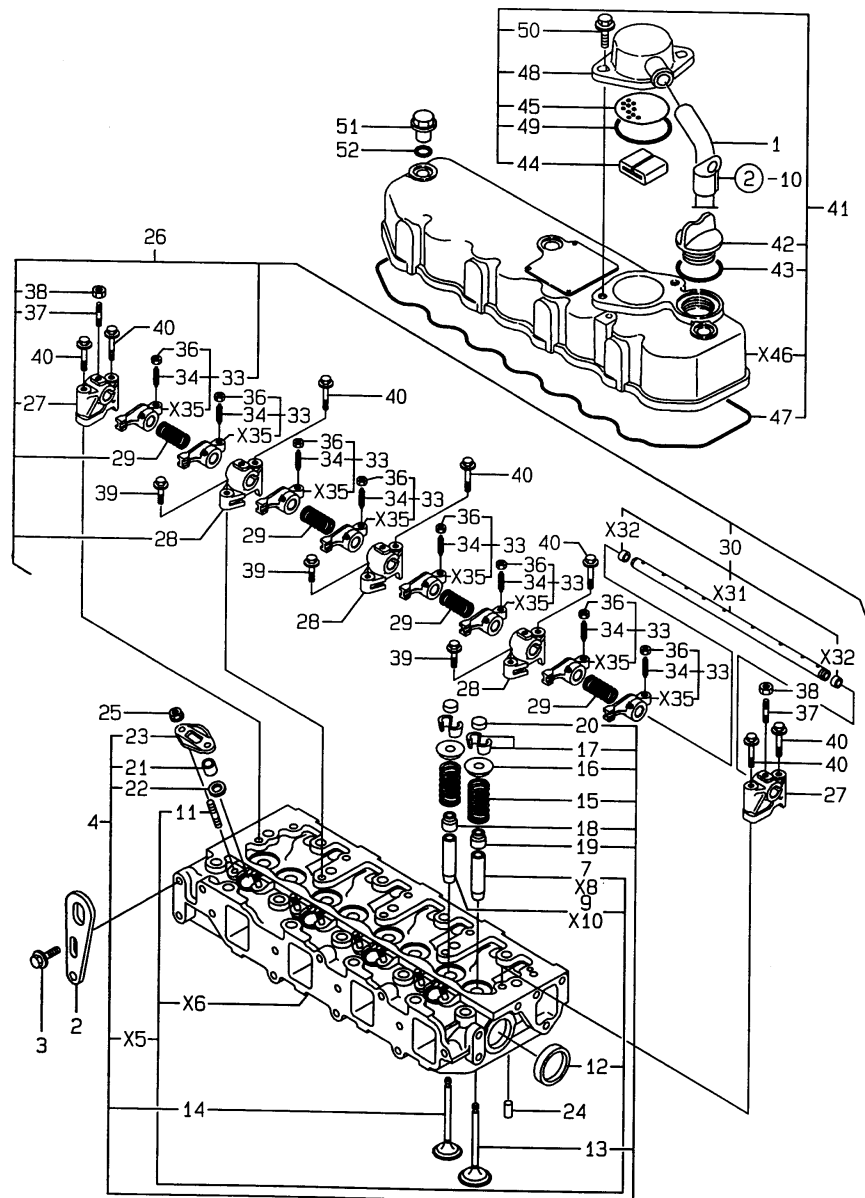
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N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty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

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Fig.4. CYLINDER HEAD & BONNET

4.CYLINDER HEAD & BONNET



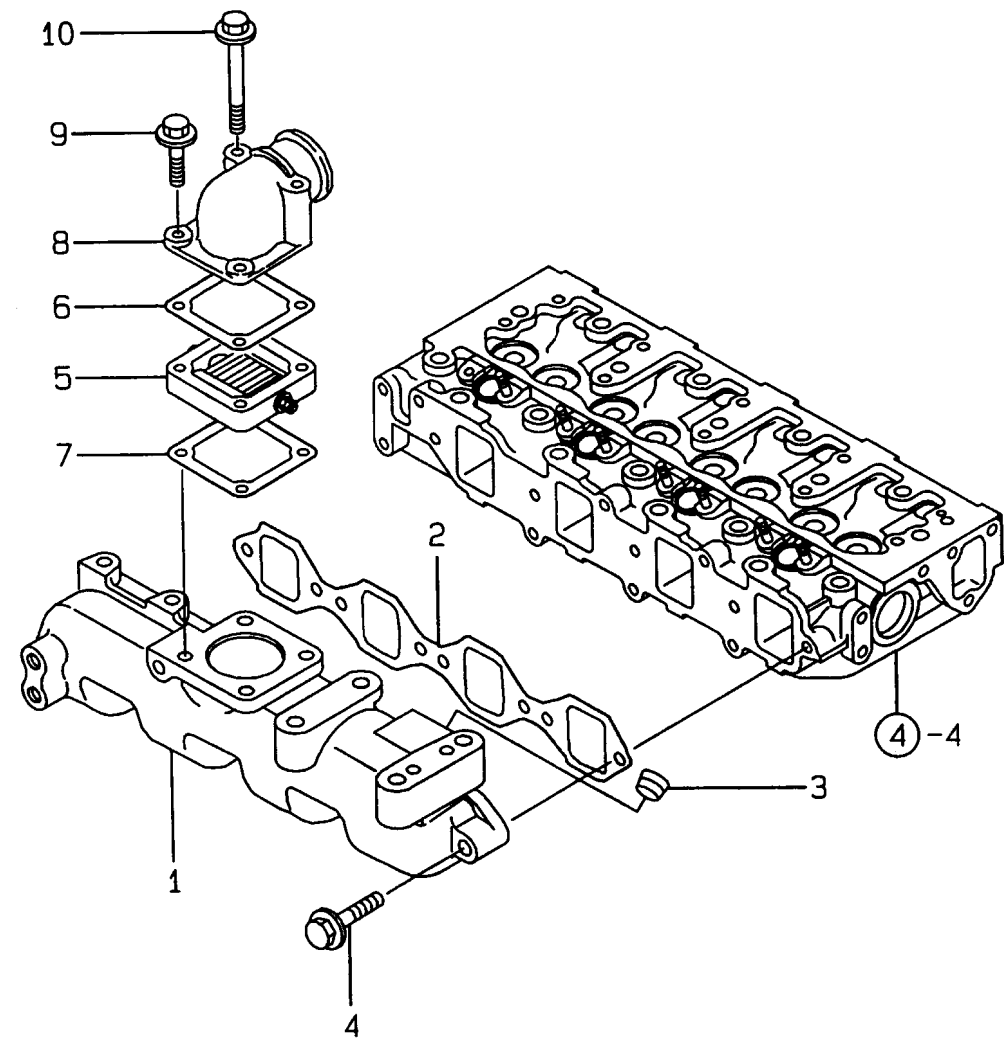
x-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-03090	HOSE, ID16X2T	1	1						
2	1	124736-07900	LIFTER	2	2						
3	1	26106-080142	BOLT, M8X 14 PLATED	4	4						
4	1	129457-11700	HEAD ASSY, CYLINDER	1	1						
7	3	120130-11860	GUIDE, VALVE	4	4						1
9	3	129150-11810	GUIDE, VALVE	4	4						1
11	3	26216-060202	STUD, M6X 20	8	8						
12	3	27241-400000	PLUG, 40	2	2						
13	2	129100-11100	VALVE, INTAKE	4	4						
14	2	129100-11110	VALVE, EXHAUST	4	4						
15	2	129795-11120	SPRING, VALVE	8	8						
16	2	129795-11180	RETAINER, SPRING	8	8						
17	2	27310-080001	COTTER, 8	8	8						
18	2	121400-11340	SEAL, VALVE STEM	4	4						
19	2	124460-11340	SEAL, VALVE STEM	4	4						
20	2	129150-11370	CAP, VALVE	8	8						
21	2	119625-11870	PROTECTOR, NOZZLE	4	4						
22	2	119625-11880	SEAT, NOZZLE	4	4						
23	2	119625-11900	RETAINER, NOZZLE	4	4						
24	1	22351-060012	PIN, SPRING 6.0X12	2	2						
25	1	26366-060002	NUT, M6	8	8						
26	1	129555-11241	SHAFT ASSY, ROCKER	1	1						
27	2	129155-11260	SUPPORT, ROCKER ARM	2	2						
28	2	129155-11270	SUPPORT, ROCKER ARM	3	3						
29	2	129150-11280	SPRING	4	4						
30	2	129550-11290	SHAFT, ROCKER ARM	1	1						
33	2	729402-11650	ARM ASSY, ROCKER	8	8						
34	3	129150-11230	SCREW, VALVE ADJUST	8	8						
36	3	129150-11750	NUT, M8	8	8						
37	2	26226-080182	STUD, M8X 18	3	3						
38	2	26756-080002	NUT, LOCK M8	3	3						
39	1	26106-080252	BOLT, M8X 25 PLATED	3	3						
40	1	26106-080502	BOLT, M8X 50 PLATED	7	7						
41	1	129400-11350	BONNET ASSY, HEAD	1	1						
42	2	124160-01751	COVER, FILLER	1	1						
43	2	24311-000320	O-RING, 1AP32.0	1	1						
44	2	129150-03070	BAFFLE, BREATHER	1	1						
45	2	129150-03080	PLATE, BAFFLE	1	1						
47	2	129550-11310	GASKET, BONNET	1	1						
48	2	129150-03020	COVER, BREATHER	1	1						
49	2	24341-000500	O-RING, 1AS50.0	1	1						
50	2	26106-080162	BOLT, M8X 16 PLATED	2	2						
51	1	124160-11360	KNOB	3	3						
52	1	24311-000120	O-RING, 1AP12.0	3	3						

Remarks
(1) REPAIR PART.

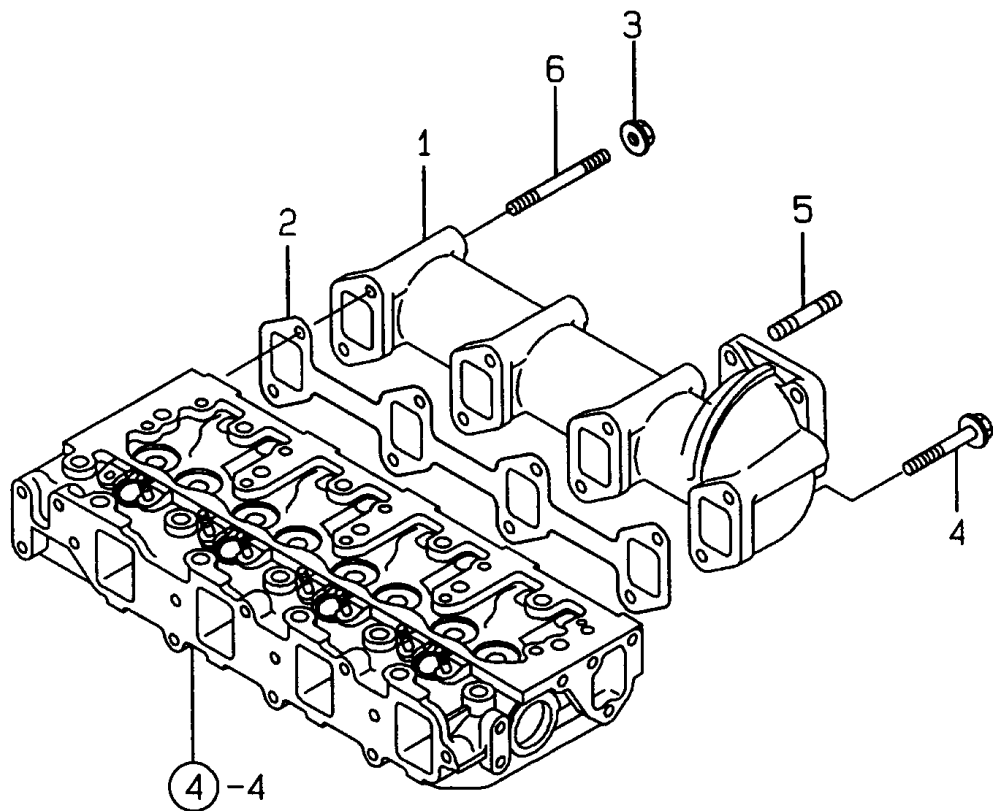
Fig.5. SUCTION MANIFOLD

5.SUCTION MANIFOLD



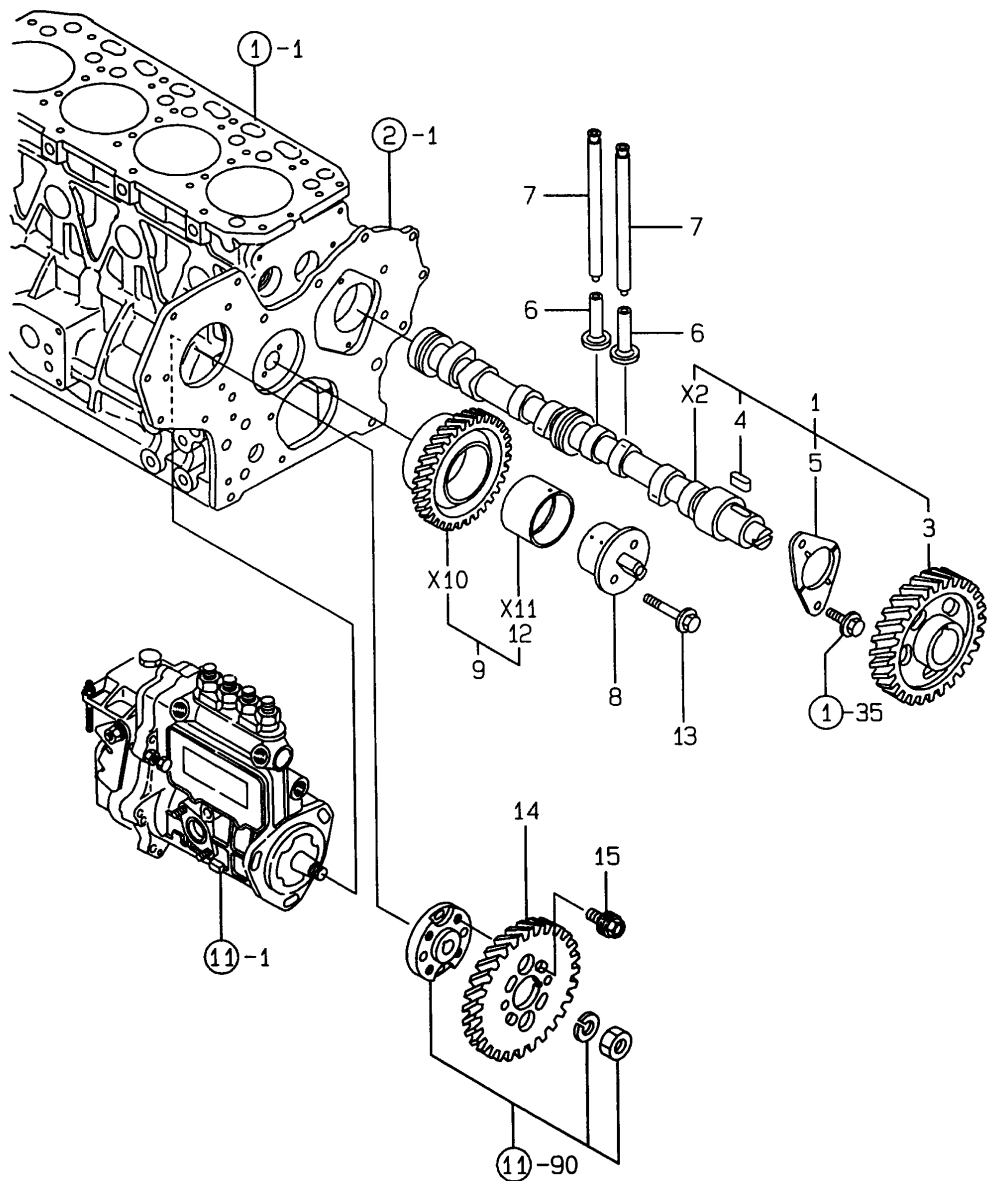
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-12100	MANIFOLD, AIR INTAKE	1	1						
2	1	129550-12111	GASKET, MANIFOLD	1	1						
3	1	23871-030000	PLUG, R03	1							
3-1	1	23876-030000	PLUG, R03	1	1						N
(A=EXXX)											
4	1	26106-080352	BOLT, M8X 35 PLATED	5	5						
5	1	129100-77500	HEATER, AIR 12V	1	1						
6	1	129100-77510	GASKET, AIR HEATER	1	1						
7	1	129150-77511	GASKET	1	1						
8	1	171340-77520	BEND	1	1						
9	1	26106-080402	BOLT, M8X 40 PLATED	2	2						
10	1	26106-080802	BOLT, M8X 80 PLATED	2	2						

6. EXHAUST MANIFOLD



No.	Lev.	Parts No.	Description	(A)=4TNE84-EMS (B)=4TNE84-EMSA (C)=		(D)= (E)= (F)=			
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129400-13101	MANIFOLD, EXHAUST	1	1				
2	1	129550-13110	GASKET	1	1				
3	1	26366-080002	NUT, M8	2	2				
4	1	26106-080802	BOLT, M8X 80 PLATED	6	6				
5	1	119131-18320	STUD, M8X22	4	4				
6	1	26216-080802	STUD, M8X 80	2	2				

7.CAMSHAFT & DRIVING GEAR



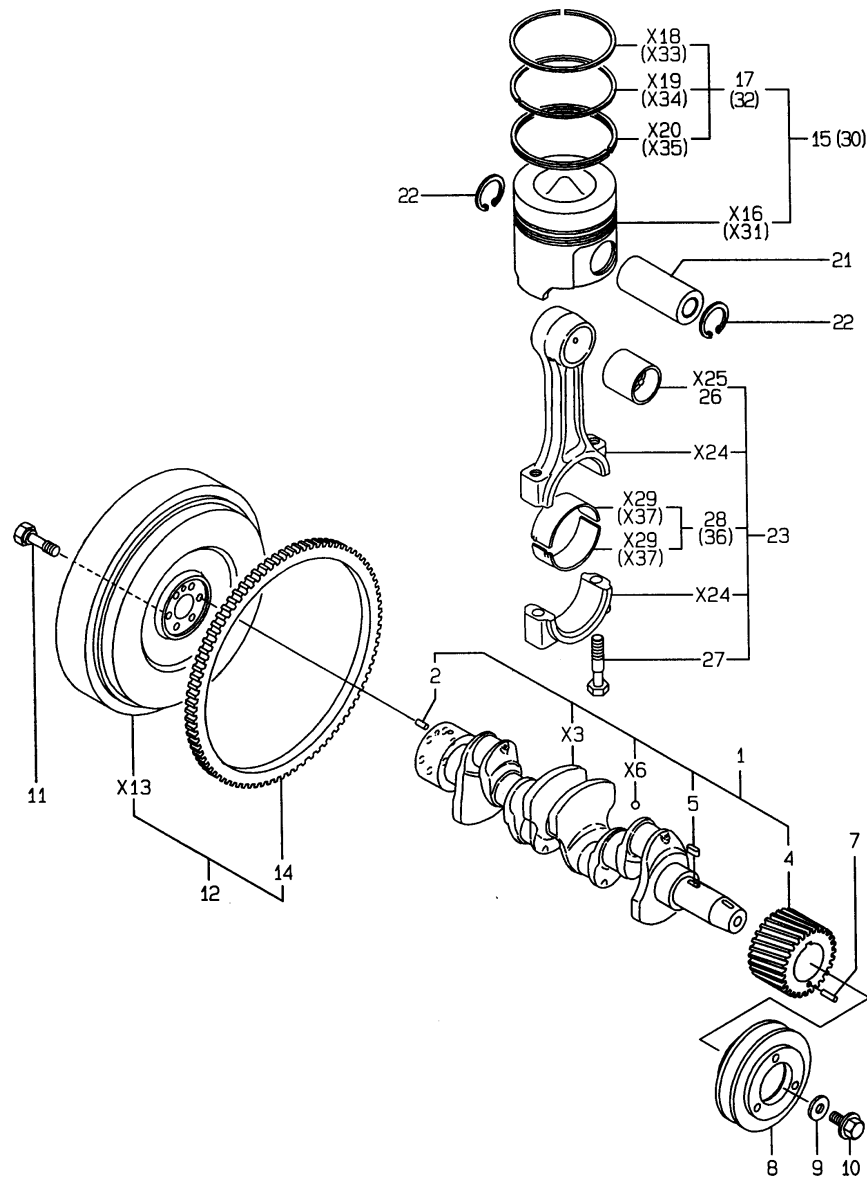
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	(A)=4TNE84-EMS (B)=4TNE84-EMSA (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729402-14580	CAMSHAFT ASSY	1	1						
3	2	129150-14101	GEAR, CAMSHAFT	1	1						
4	2	22512-070140	KEY, 7X 14	1	1						
5	2	129150-02450	BEARING, THRUST	1	1						
6	1	129150-14200	TAPPET	8	8						
7	1	129150-14400	ROD, PUSH L=178	8	8						
8	1	129100-25061	SHAFT, IDLE	1	1						
9	1	129150-25101	GEAR ASSY, IDLE	1	1						
12	2	129150-25920	BUSH, IDLE GEAR	1	1						1
13	1	26106-080452	BOLT, M8X 45 PLATED	2	2						
14	1	129150-25930	GEAR, PUMP	1	1						
15	1	129150-25301	BOLT	4	4						

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

Fig.8. CRANKSHAFT & PISTON

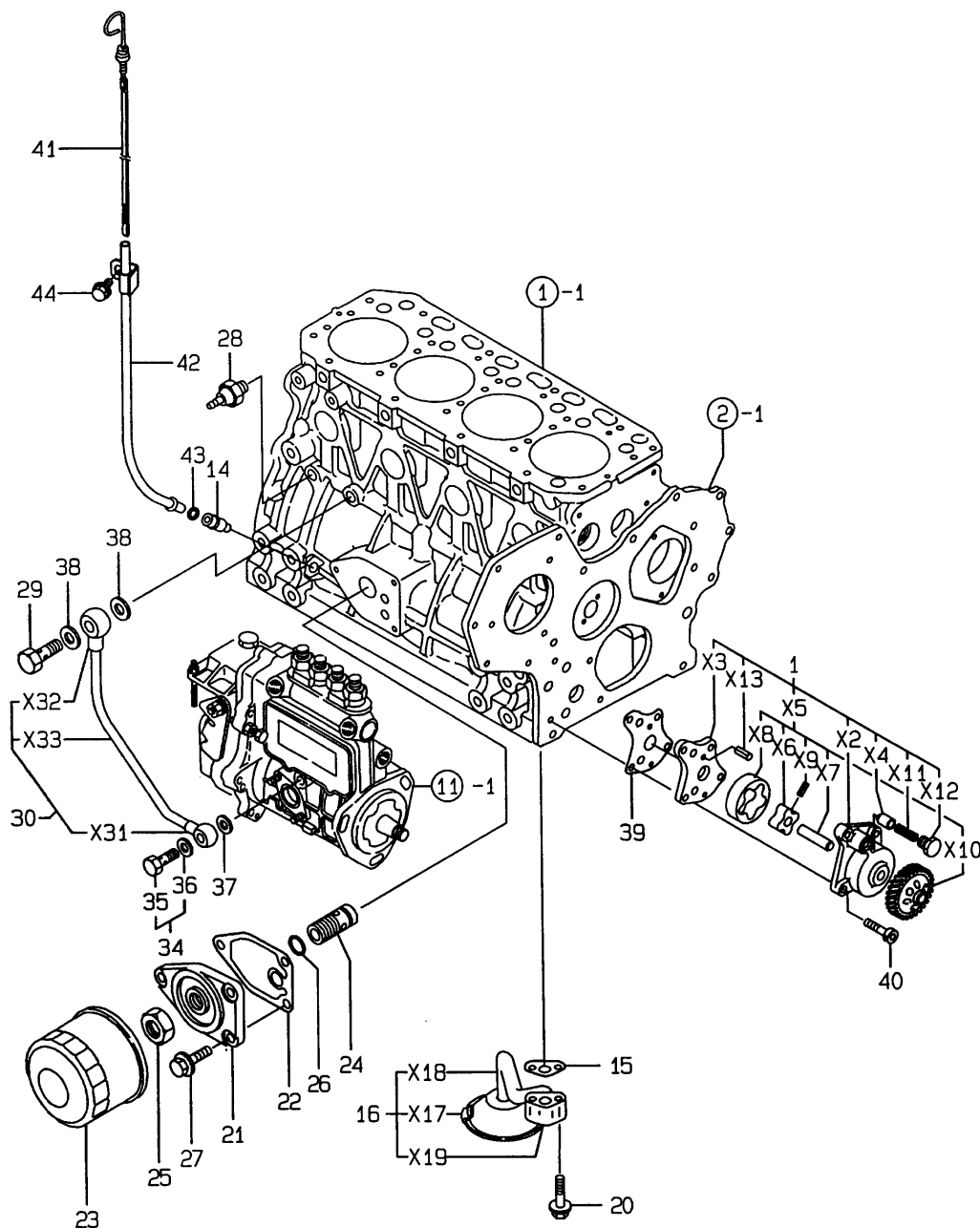
8.CRANKSHAFT & PISTON



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-21000	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PIN, M8X16	1	1						
4	2	129150-21200	GEAR, CRANKSHAFT	1	1						
5	2	22512-070140	KEY, 7X 14	1	1						
7	1	22351-040010	PIN, SPRING 4.0X10	1	1						
8	1	171301-21650	V-PULLEY	1	1						
9	1	129795-21661	WASHER	1	1						
10	1	121850-21680	BOLT	1	1						
11	1	121111-21501	BOLT, FLYWHEEL	6	6						
12	1	171420-21580	FLYWHEEL ASSY	1	1						
14	2	119865-21600	GEAR, RING	1	1						
15	1	129002-22060	PISTON ASSY	4	4						
17	2	129002-22510	RING SET, PISTON	4	4						
21	1	129202-22300	PIN, PISTON D26 L70	4	4						
22	1	22252-000260	RING, 26	8	8						
23	1	729402-23100	ROD ASSY, CONNECTING	4	4						
26	2	129100-23910	BEARING, PISTON PIN	4	4						1
27	2	121550-23200	BOLT, CONNECTING ROD	8	8						
28	2	129150-23600	BEARING, CRANK PIN	4	4						
30	1	129002-22930	PISTON ASSY, 0.25 OS	4	4						2
32	2	129002-22960	RING SET, 0.25 OS	4	4						2
36	1	129150-23610	BEARING, 0.25 US	4	4						3

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

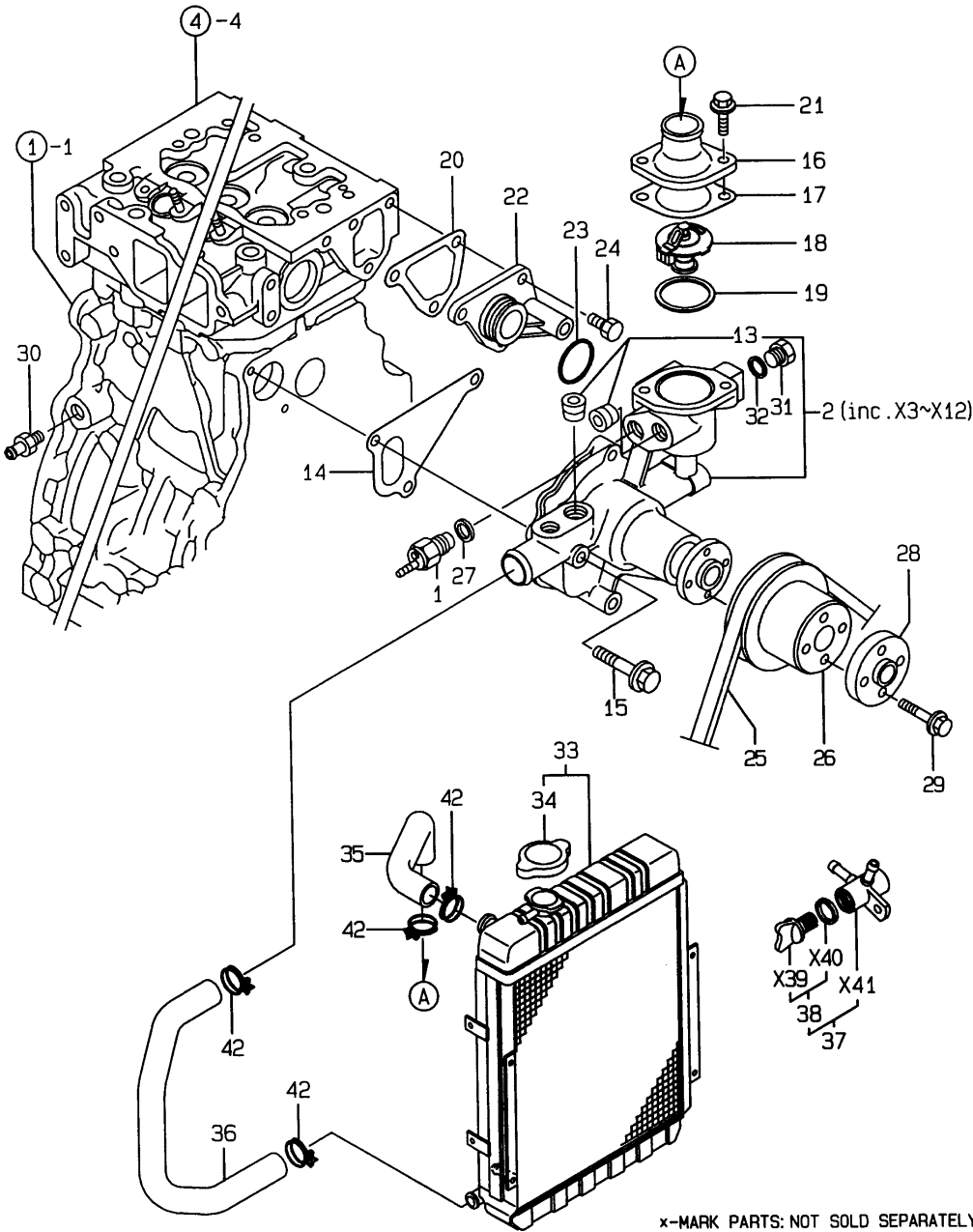
9.LUB.OIL SYSTEM



No.	Lev.	Parts No.	Description	(A)=4TNE84-EMS (B)=4TNE84-EMSA (C)=		(D)= (E)= (F)=			
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129407-32000	PUMP ASSY, OIL	1	1				
14	1	119260-34810	GUIDE, DIPSTICK	1	1				
15	1	129150-35041	GASKET	1	1				
16	1	129150-35091	PIPE ASSY, OIL INLET	1	1				
20	1	26106-080352	BOLT, M8X 35 PLATED	2	2				
21	1	129150-35101	BRACKET, STRAINER	1	1				
22	1	129150-35111	GASKET	1	1				
23	1	129150-35151	FILTER, D80XL80	1	1				
24	1	129001-35300	BOLT, FILTER	1	1				
25	1	129150-35350	NUT	1	1				
26	1	24311-000160	O-RING, 1AP16.0	1	1				
27	1	26106-080202	BOLT, M8X 20 PLATED	3	3				
28	1	124160-39450	SWITCH, 0.5KG	1	1				
29	1	124160-39140	BOLT, PIPE JOINT M10	1	1				
30	1	129550-39450	PIPE ASSY, OIL	1	1				
34	1	124550-59830	BOLT ASSY, JOINT M8	1	1				
35	2	124550-59820	BOLT, PIPE JOINT M8	1	1				
36	2	22190-080002	WASHER, SEAL 6	1					
36-1	2	22190-080003	WASHER, SEAL 8	1	1				N
	(A=E14092)								
37	1	22190-080002	WASHER, SEAL 6	1					
37-1	1	22190-080003	WASHER, SEAL 8	1	1				N
	(A=E14092)								
38	1	23414-100000	GASKET, 10X1.0	2	2				
39	1	129150-32020	GASKET, PUMP	1	1				
40	1	26450-060252	BOLT, M6X 25	4	4				
41	1	129428-34800	DIPSTICK, OIL	1	1				
42	1	129428-34811	GUIDE, DIPSTICK A	1	1				
43	1	24311-240100	O-RING, 1AP10A	1	1				
44	1	26106-080162	BOLT, M8X 16 PLATED	1	1				

Fig.10. COOLING WATER SYSTEM

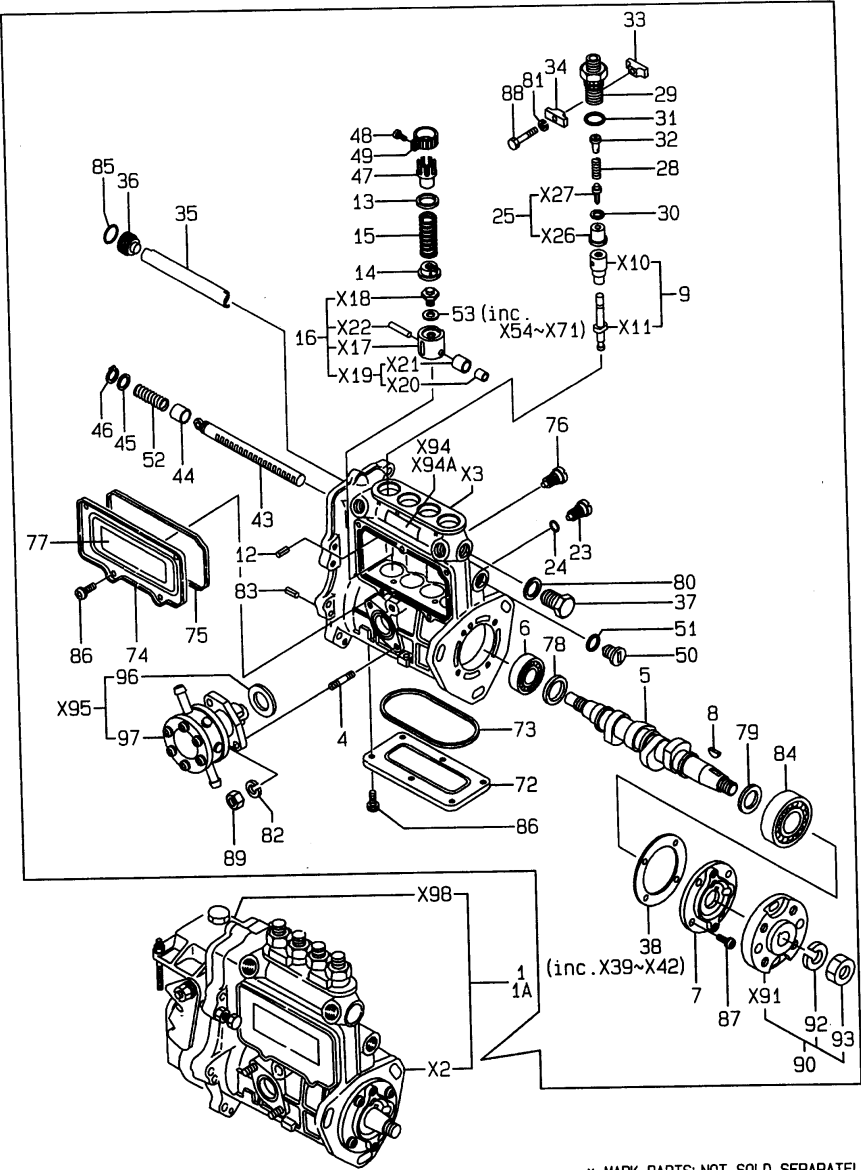
10.COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121250-44901	SWITCH, 110	1	1						
2	1	129001-42002	PUMP ASSY, WATER	1	1						
13	2	23871-030000	PLUG, R03	2							
13-1	2	23876-030000	PLUG, R03	2	2						N
(A=*1999.07)											
14	1	129100-42020	GASKET, WATER PUMP	1	1						
15	1	26106-080602	BOLT, M8X 60 PLATED	3	3						
16	1	129350-49560	COVER, THERMOSTAT	1	1						
17	1	129795-49551	GASKET	1	1						
18	1	129574-49800	THERMOSTAT, 82	1	1						
19	1	129150-49811	GASKET, THERMOSTAT	1	1						
20	1	129100-49840	GASKET	1	1						
21	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
22	1	129001-42040	JOINT	1	1						
23	1	24321-000300	O-RING, 1AG30.0	1							
23-1	1	129486-42140	O-RING, G30	1	1						N
(A=*1999.07)											
24	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
25	1	25132-003800	V-BELT, A38	1	1						
26	1	129155-42350	V-PULLEY	1	1						
27	1	124465-44950	GASKET, 16	1	1						
28	1	124574-44761	SPACER, FAN	1	1						
29	1	26014-060252	BOLT, M6X 25	4	4						
30	1	121550-49111	JOINT, PT1/4	1	1						
31	1	121450-42450	PLUG, M16	1	1						
32	1	124465-44950	GASKET, 16	1	1						
33	1	129430-44530	RADIATOR	1	1						
34	2	119259-44570	CAP, RADIATOR	1	1						
35	1	171440-49010	PIPE, WATER	1	1						
36	1	171420-49020	PIPE, WATER	1	1						
37	1	129150-49100	COCK ASSY, 3-WAY	1	1						
38	2	129150-49080	COCK, DRAIN	1	1						
42	1	23010-038000	CLAMP, 38	4	4						

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP



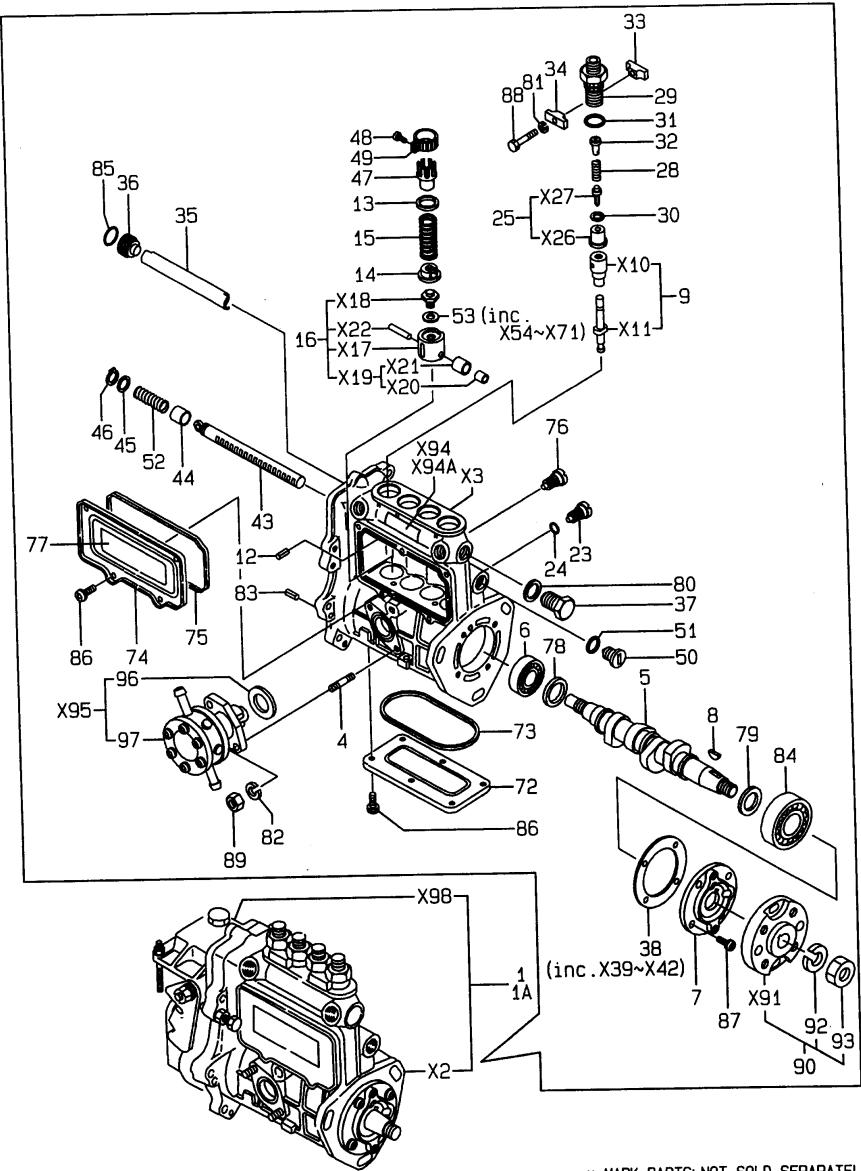
x-MARK PARTS: NOT SOLD SEPARATELY.

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729423-51460	PUMP ASSY, INJECTION	1							1
1A	1	729423-51490	PUMP ASSY, INJECTION		1						1
4	3	129155-51020	STUD	2	2						
5	3	129506-51040	CAMSHAFT	1	1						
6	3	129155-51050	BEARING, 17BM001D	1	1						
7	3	129208-51060	SUPPORT	1	1						
8	3	122710-51090	KEY	1	1						
9	3	129506-51100	PLUNGER ASSY	4	4						
12	3	129155-51140	PIN	4	4						
13	3	174307-51170	RETAINER, SPRING A	4	4						
14	3	129155-51180	RETAINER, SPRING	4	4						
15	3	124950-51190	SPRING, PLUNGER	4	4						
16	3	129155-51200	TAPPET ASSY	4	4						
23	3	129155-51270	STOPPER, TAPPET	4	4						
24	3	129155-51280	O-RING, S6	4	4						
25	3	129208-51300	VALVE ASSY, DELIVERY	4	4						
28	3	129573-51330	SPRING, DELIVERY	4	4						
29	3	129573-51340	RETAINER	4	4						
30	3	124550-51350	GASKET, DELIVERY	4	4						
31	3	124550-51370	O-RING	4	4						
32	3	129573-51370	STOPPER, VALVE	4	4						
33	3	129155-51380	STOPPER	2	2						
34	3	129155-51390	STOPPER	2	2						
35	3	129555-51400	DEFLECTOR	1	1						
36	3	129155-51410	BOLT	1	1						
37	3	129155-51420	PLUG, M16	1	1						
38	3	129155-51450	SHIM SET, ADJUSTING	1	1						
43	3	129555-51500	RACK, CONTROL	1	1						
44	3	129155-51521	BUSH, RACK	1	1						
45	3	129155-51530	SPACER	1	1						
46	3	129155-51540	CIRCLIP	1	1						
47	3	129155-51550	PINION, CONTROL	4	4						
48	3	122117-51560	SCREW	4	4						
49	3	174307-51560	PINION	4	4						
50	3	129155-51570	PLUG, M12	1	1						
51	3	129155-51580	O-RING	1	1						
52	3	129155-51591	SPRING, RACK	1	1						
53	3	129155-51600	SHIM SET, ADJUSTING	4	4						
72	3	129555-51700	COVER	1	1						
73	3	129555-51710	GASKET	1	1						
74	3	129555-51750	COVER	1	1						
75	3	129555-51760	GASKET	1	1						
76	3	129155-51790	STOOPER, RACK	1	1						
77	3	129156-51910	LABEL, CAUTION	1	1						
78	3	129155-51930	SPACER, T=3.25	1	1						
79	3	129155-51940	SPACER, T=1.5	1	1						
80	3	22190-160002	WASHER, SEAL 16	1	1						
81	3	22217-050000	WASHER, SPRING 5	2	2						
82	3	22217-060000	WASHER, SPRING 6	2	2						
83	3	22351-050010	PIN, SPRING 5.0X10	2	2						
84	3	24101-063034	BEARING, BALL 6303	1	1						

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP

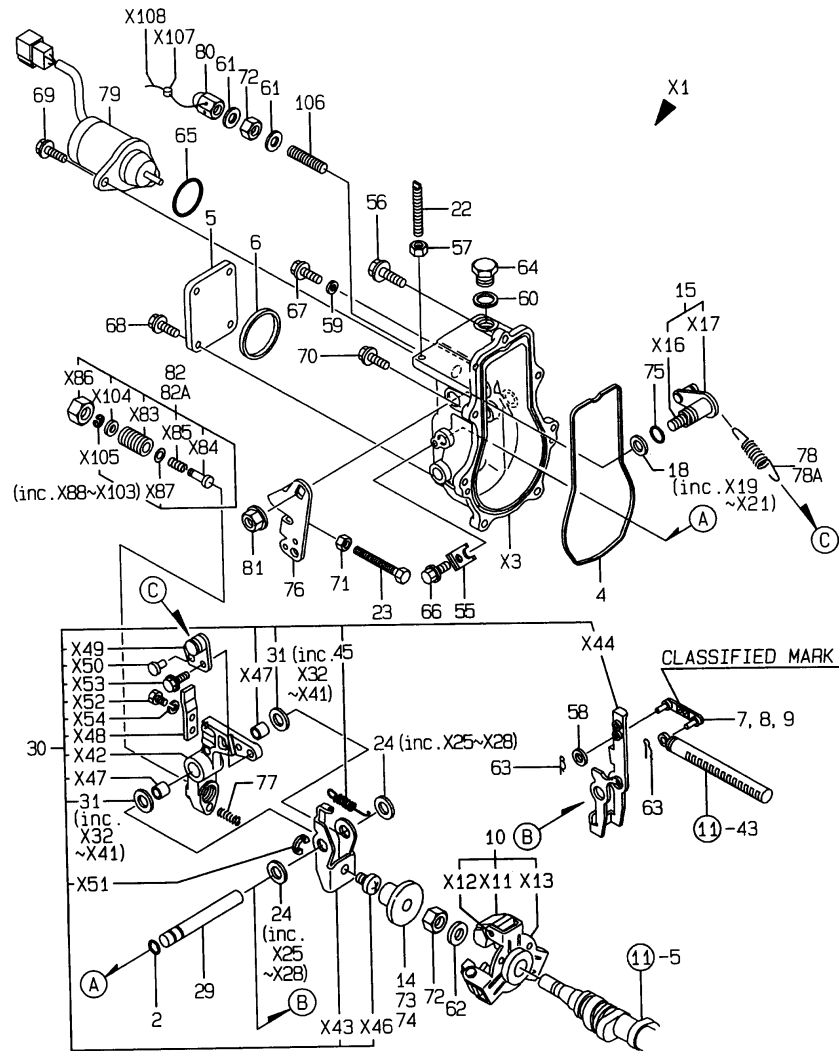


Remarks
(1) GOVERNOR ASSY(FIG.NO.12) IS
INCORPORATED IN THIS FUEL
INJECTION PUMP ASSY(REF.NO.1,1A).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
85	3	24341-000160	O-RING, 1AS16.0	1	1						
86	3	26022-050102	SCREW, M5X10	11	11						
87	3	26022-060162	SCREW, M6X16	4	4						
88	3	26116-050302	BOLT, M5X 30 PLATED	2	2						
89	3	26716-060002	NUT, M6	2	2						
90	3	129208-54500	FLANGE ASSY	1	1						
92	4	22217-120000	WASHER, SPRING 12	1	1						
93	4	26716-120002	NUT, M12	1	1						
96	3	129155-52050	GASKET	1	1						
97	3	129100-52100	PUMP ASSY, FUEL FEED	1	1						

Fig.12. GOVERNOR

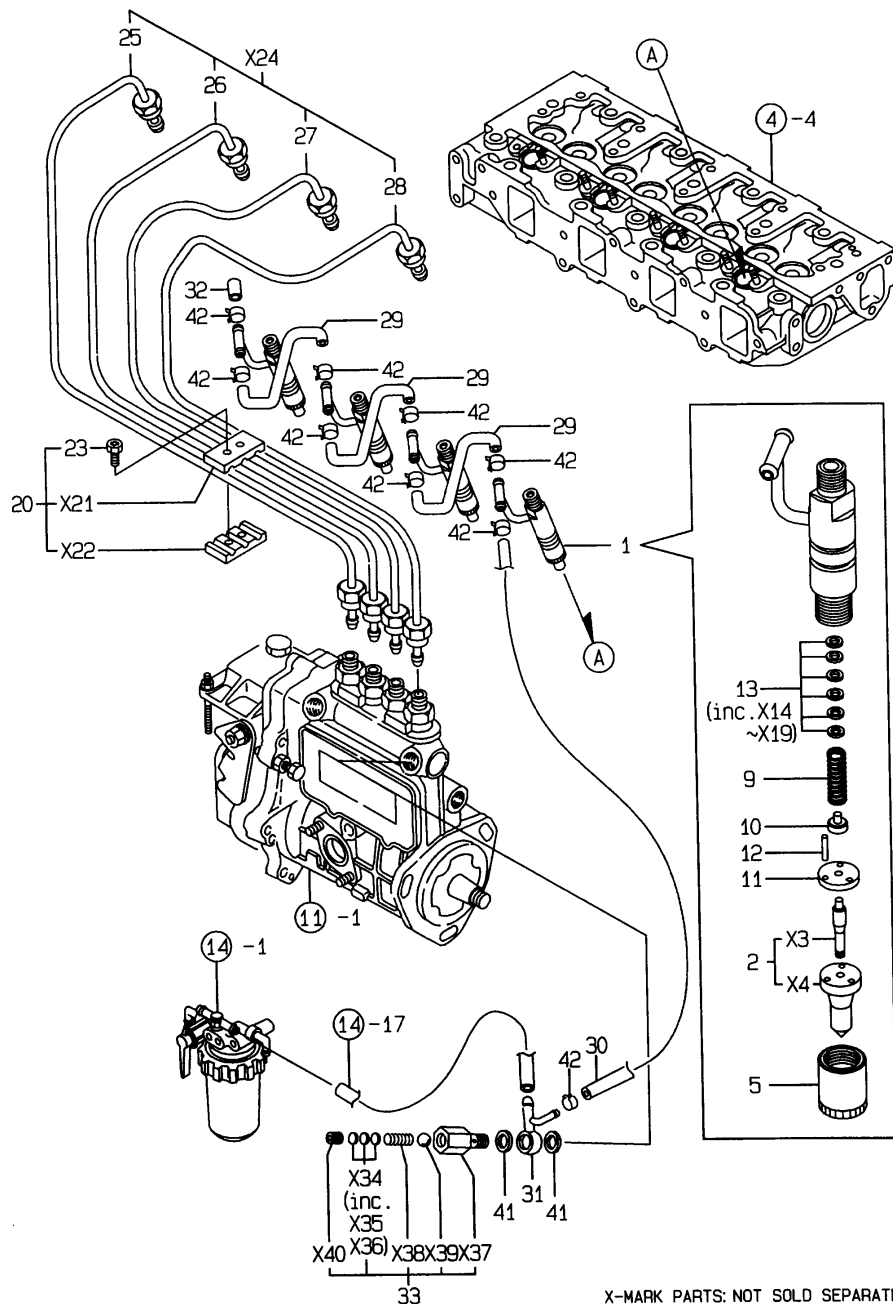
12. GOVERNOR



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	1						
4	3	129052-61050	GASKET	1	1						
5	3	129052-61060	COVER, GOVERNOR CASE	1	1						
6	3	129052-61070	GASKET	1	1						
7	3	129155-61120	LINK, L=30 MARK 0	1	1						1
8	3	129155-61130	LINK, L=31 MARK 1	1	1						1
9	3	129155-61140	LINK, L=30.5 MARK 05	1	1						1
10	3	129155-61201	WEIGHT ASSY,GOVERNOR	1	1						
14	3	129155-61341	SLEEVE	1	1						2
15	3	129100-61400	SHAFT ASSY	1	1						
18	3	129155-61430	SPACER	1	1						
22	3	129155-61450	BOLT, LIMITER	1	1						
23	3	129155-61460	BOLT, IDLE	1	1						
24	3	129155-61480	SPACER ASSY	2	2						
29	3	129052-61390	SHAFT	1	1						
30	3	129052-61500	LEVER ASSY, GOVERNOR	1	1						
31	4	174307-51700	SHIM SET	2	2						
45	4	129052-61540	SPRING, SET	1	1						
55	3	119660-61901	RETAINER, SHAFT	1	1						
56	3	129155-61950	BOLT	1	1						
57	3	124550-66370	NUT, M6	1	1						
58	3	22117-040000	WASHER, 4	1	1						
59	3	22190-060003	SEAL WASER 6	1	1						
60	3	22190-100002	WASHER, SEAL 10	1	1						
61	3	22190-120002	WASHER, SEAL 12	2	2						
62	3	22287-120000	WASHER, 12	1	1						
63	3	22372-040000	PIN, SNAP 4	2	2						
64	3	23887-100002	PLUG, 10	1	1						
65	3	24341-000280	O-RING, 1AS28.0	1	1						
65-1	3	158552-61900	O-RING	1	1						N
(A=EXXXXX) (B=EXXXXX)											
66	3	26106-060102	BOLT, M6X 10 PLATED	1	1						
67	3	26106-060102	BOLT, M6X 10 PLATED	1	1						
68	3	26106-060102	BOLT, M6X 10 PLATED	4	4						
69	3	26106-060142	BOLT, M6X 14 PLATED	2	2						
70	3	26106-060202	BOLT, M6X 20 PLATED	6	6						
71	3	26756-060002	NUT, LOCK M6	1	1						
72	3	26776-120002	NUT, LOCK M12	2	2						
73	3	129155-61350	SLEEVE, L=24.9	1	1						2
74	3	129155-61360	SLEEVE, L=25.2	1	1						2
75	3	129155-61830	O-RING, S10	1	1						
76	2	129100-61440	LEVER, CONTROL	1	1						
77	2	129100-61650	SPRING, CONTROLLER	1	1						
78	2	171353-61710	SPRING, GOVERNOR	1							
78A	2	171353-61700	SPRING, GOVERNOR		1						
79	2	119653-77950	SOLENOID, STOP	1	1						
80	2	129100-61930	NUT, CAP	1	1						
81	2	26366-080002	NUT, M8	1	1						
82	2	171353-61550	ANGLEICH ASSY	1							
82A	2	129132-61550	ANGLEICH ASSY		1						
106	2	129155-61470	BOLT, CONTROL	1	1						

13.FUEL INJECTION VALVE

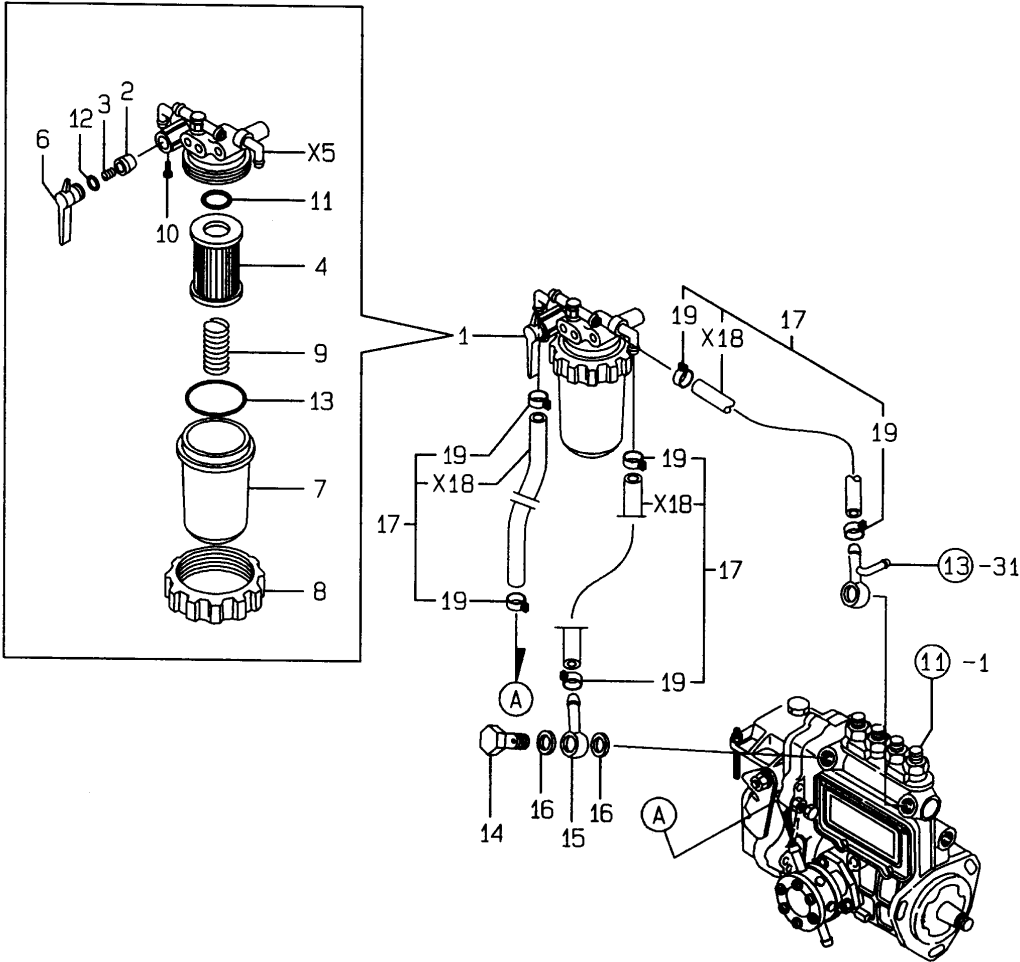


X-MARK PARTS: NOT SOLD SEPARATELY.

				(A)=4TNE84-EMS (B)=4TNE84-EMSA (C)=	(D)= (E)= (F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I R
1	1	729503-53100	VALVE ASSY,INJECTION	4	4					
2	2	129503-53000	VALVE ASSY,INJECTION	4	4					
5	2	114250-53080	NUT, NOZZLE D16.95	4	4					
9	2	114250-53120	SPRING, NOZZLE	4	4					
10	2	114250-53130	SEAT, SPRING	4	4					
11	2	114250-53140	PLATE	4	4					
12	2	114250-53210	PIN	8	8					
13	2	114250-53400	SHIM SET	4	4					
20	1	129150-59120	RETAINER, PIPE	2	2					
23	2	129150-59131	BOLT, M4X14	4	4					
25	2	129400-59910	PIPE ASSY, INJECTION	1	1					
26	2	129400-59920	PIPE ASSY, INJECTION	1	1					
27	2	129400-59930	PIPE ASSY, INJECTION	1	1					
28	2	129400-59940	PIPE ASSY, INJECTION	1	1					
29	1	121250-59550	PIPE, FUEL D8X120	3	3					
30	1	119840-59560	PIPE, FUEL RETURN	1	1					
31	1	119840-59570	JOINT	1	1					
32	1	129150-59580	CAP	1	1					
33	1	129100-59951	VALVE ASSY, CHECK	1	1					
41	1	23414-120000	GASKET, 12X1.0	2						
41-1	1	22190-120002	WASHER, SEAL 12	2	2					N
(A=1999.07)										
42	1	124066-59100	CLIP, HOSE 8	9	9					

OCV10-M61301
Fig.14. FUEL LINE

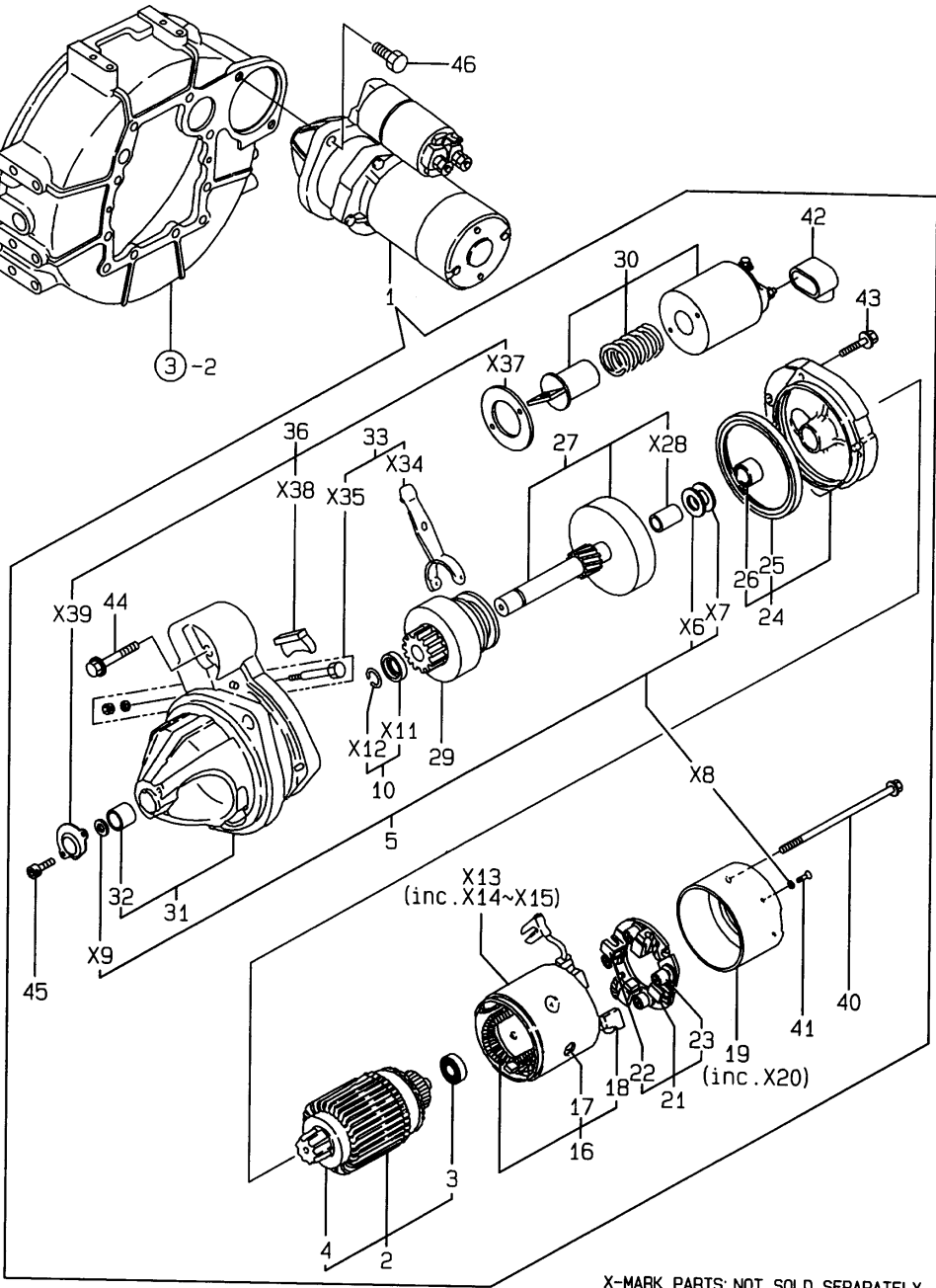
14.FUEL LINE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129052-55620	FILTER ASSY, FUEL	1	1						
2	2	104200-55321	VALVE, TAPER	1	1						
3	2	104200-55330	SPRING, VALVE	1	1						
4	2	129100-55650	ELEMENT	1	1						
6	2	129100-55670	LEVER	1	1						
7	2	129100-55680	CUP, STRAINER	1	1						
8	2	129100-55690	RING, RETAINING	1	1						
9	2	129100-55700	SPRING	1	1						
10	2	104200-55750	SCREW, M4	1	1						
11	2	24311-000160	O-RING, 1AP16.0	1	1						
12	2	24311-240100	O-RING, 1AP10A	1	1						
13	2	24321-000650	O-RING, 1AG65.0	1	1						
14	1	103854-39140	BOLT, PIPE JOINT	1	1						
15	1	101304-59020	JOINT, PIPE 12	1	1						
16	1	22190-120002	WASHER, SEAL 12	2	2						
17	1	129210-59140	PIPE ASSY, FUEL	3	3						
19	2	124766-59050	CLIP, HOSE 12	6	6						

Fig.15. STARTING MOTOR

15.STARTING MOTOR

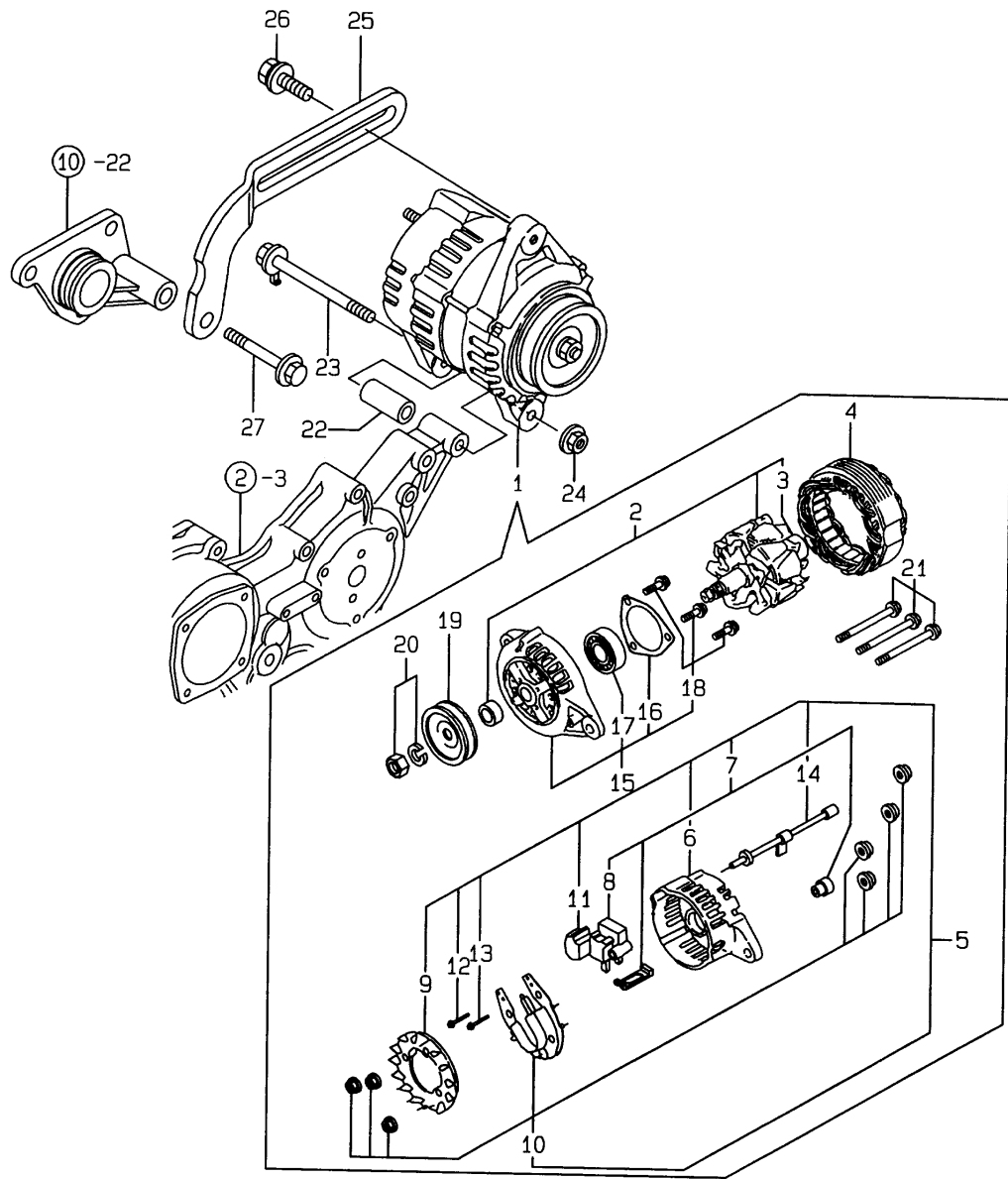


X-MARK PARTS: NOT SOLD SEPARATELY.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121254-77012	STARTING MOTOR(DC12V	1	1						
2	2	121254-77402	ARMATURE ASSY	1	1						
3	3	121254-77410	BALL BEARING	1	1						
4	3	121254-77420	BALL BEARING	1	1						
5	2	121254-77430	WASHER KIT, THRUST	1	1						
10	2	121254-77480	STOPPER KIT, PINION	1	1						
16	2	121254-77520	COIL ASSY, FIELD	1	1						
17	3	121254-77530	SCREW, POLE CORE	4	4						
18	3	121254-77540	BRUSH(+)	2	2						
19	2	121254-77550	COVER ASSY, REAR	1	1						
21	2	121254-77571	HOLDER ASSY	1	1						
22	3	121254-77581	BRUSH, -	2	2						
23	3	121254-77590	SPRING, BRUSH	4	4						
24	2	121254-77600	BEARING ASSY, CENTER	1	1						
25	3	119129-77210	SEAL, OIL	1	1						
26	3	119129-77220	BEARING, NEEDLE	1	1						
27	2	121254-77640	SHAFT ASSY, GEAR	1	1						
29	2	121254-77661	PINION ASSY	1	1						
30	2	121254-77670	SWITCH, MAGNETIC	1	1						
31	2	121254-77681	CASE ASSY, GEAR	1	1						
32	3	121254-77690	METAL, GEAR CASE	1	1						
33	2	121254-77700	LEVER SET, SHIFT	1	1						
36	2	121254-77730	DUST COVER SET	1	1						
40	2	121254-77770	BOLT, THROUGH	2	2						
41	2	121254-77790	SCREW 4	2	2						
42	2	121254-77810	COVER, TERMINAL	1	1						
43	2	26106-060302	BOLT, M6X 30 PLATED	3	3						
44	2	26106-060452	BOLT, M6X 45 PLATED	2	2						
45	2	26450-050122	BOLT, M5X 12	2	2						
46	1	26116-120252	BOLT, M12X 25 PLATED	2	2						

Fig.16. GENERATOR

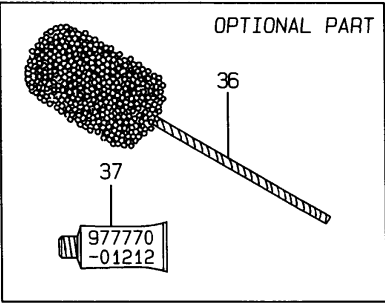
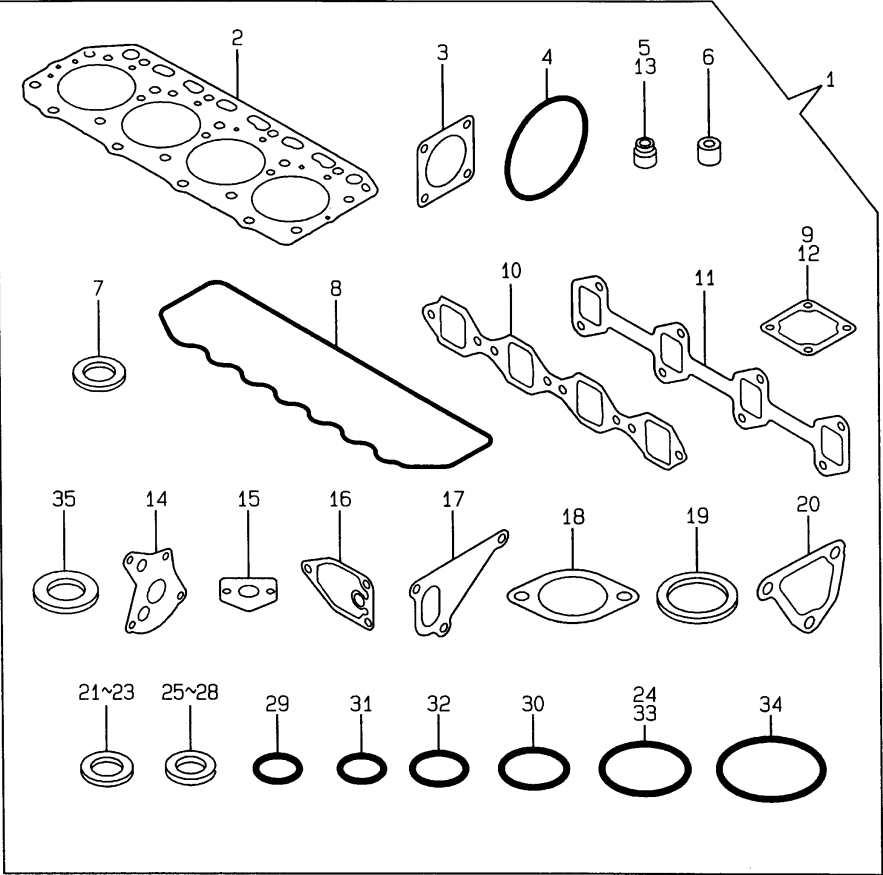
16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1	1						
2	2	119836-77700	ROTOR ASSY	1	1						
3	3	119836-77850	BALL BEARING	1	1						
4	2	119836-77710	STATOR ASSY	1	1						
5	2	119836-77721	COVER ASSY, REAR	1	1						
6	3	119836-77730	COVER, REAR	1	1						
7	3	119836-77741	BRUSH ASSY,REGULATOR	1	1						
8	4	119836-77750	BRUSH ASSY	1	1						
9	3	119836-77760	GUIDE, FAN SIDE	1	1						
10	3	119836-77770	DIODE ASSY	1	1						
11	3	119836-77780	CONDENSER	1	1						
12	3	119836-77871	BOLT (1)	1	1						
13	3	119836-77880	BOLT (2)	1	1						
14	3	119836-77890	WIRE ASSY, LEAD	1	1						
15	2	119836-77790	COVER ASSY, FRONT	1	1						
16	3	119836-77800	RETAINER, BEARING	1	1						
17	3	119836-77840	BALL BEARING	1	1						
18	3	119836-77860	SCREW KID	1	1						
19	2	119836-77810	PULLEY	1	1						
20	2	119836-77820	NUT ASSY, PULLEY	1	1						
21	2	119836-77830	BOLT, THROUGH	1	1						
22	1	119820-77340	PIECE, DISTANCE	1	1						
23	1	129136-77251	BOLT, M8X110	1	1						
24	1	129612-77260	NUT, ALTERNATOR	1	1						
25	1	129100-77320	ADJUSTER	1	1						
26	1	119810-77340	BOLT, ADJUSTER	1	1						
27	1	26106-080502	BOLT, M8X 50 PLATED	1	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	729408-92700	GASKET SET	1	1						1
2	2	129408-01330	GASKET, HEAD	1	1						
3	2	124240-01883	GASKET	1	1						
4	2	121850-51960	O-RING	1	1						
5	2	124460-11340	SEAL, VALVE STEM	4	4						
6	2	119625-11870	PROTECTOR, NOZZLE	4	4						
7	2	119625-11880	SEAT, NOZZLE	4	4						
8	2	129550-11310	GASKET, BONNET	1	1						
9	2	129150-77511	GASKET	1	1						
10	2	129550-12111	GASKET, MANIFOLD	1	1						
11	2	129550-13110	GASKET	1	1						
12	2	129100-77510	GASKET, AIR HEATER	1	1						
13	2	121400-11340	SEAL, VALVE STEM	4	4						
14	2	129150-32020	GASKET, PUMP	1	1						
15	2	129150-35041	GASKET	1	1						
16	2	129150-35111	GASKET	1	1						
17	2	129100-42020	GASKET, WATER PUMP	1	1						
18	2	129795-49551	GASKET	1	1						
19	2	129150-49811	GASKET, THERMOSTAT	1	1						
20	2	129100-49840	GASKET	1	1						
21	2	22190-160002	WASHER, SEAL 16	1	1						
22	2	22190-120002	WASHER, SEAL 12	2							
22-1	2	22190-120002	WASHER, SEAL 12	4	4						K
(A=*1999.07)											
23	2	22190-080002	WASHER, SEAL 6	7	7						
24	2	24321-000300	O-RING, 1AG30.0	1							
24-1	2	129486-42140	O-RING, G30	1	1						N
(A=*1999.07)											
25	2	23414-120000	GASKET, 12X1.0	2							Z
(A=*1999.07)											
26	2	23414-100000	GASKET, 10X1.0	2	2						
27	2	23414-080000	GASKET, 8X1.0	4	4						
28	2	124465-44950	GASKET, 16	2	2						
29	2	24311-240100	O-RING, 1AP10A	1	1						
30	2	24341-000240	O-RING, 1AS24.0	1	1						
31	2	24311-000120	O-RING, 1AP12.0	3	3						
32	2	24311-000160	O-RING, 1AP16.0	3	3						
33	2	24311-000320	O-RING, 1AP32.0	2	2						
34	2	24341-000500	O-RING, 1AS50.0	1	1						
35	2	129155-52050	GASKET	1	1						
36	1	129400-92420	FLEX HORN	1	1						1
37	1	977770-01212	GASKET, LIQUID	1	1						1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	14	15
103854-39140	14	14
104200-55321	14	2
104200-55330	14	3
104200-55750	14	10
105425-01690	3	7
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114250-53400	13	13
119129-77210	15	25
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129052-61070	12	6
129052-61390	12	29
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