

0CV10-M60101EN

PREFACE

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE88 - LAN engine manufactured since September, 1998 & 3TNE88 - ELAN engine manufactured since September, 2000.

2. Parts catalog history

	Parts catalog No.	Published	Remarks
1st edition	000Y00V6010	1998/11	Disuse old edition
1st revised	000Y00V6011	2000/10	

3. Model name

Column	Model name	Manufactured	E/#
(A)	3TNE88 - LAN	1998/ 9 ~	19276 ~
(B)	3TNE88 - ELAN	2000/ 9 ~	34702 ~

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)

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 $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New $\xrightarrow{\text{No}}$	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.

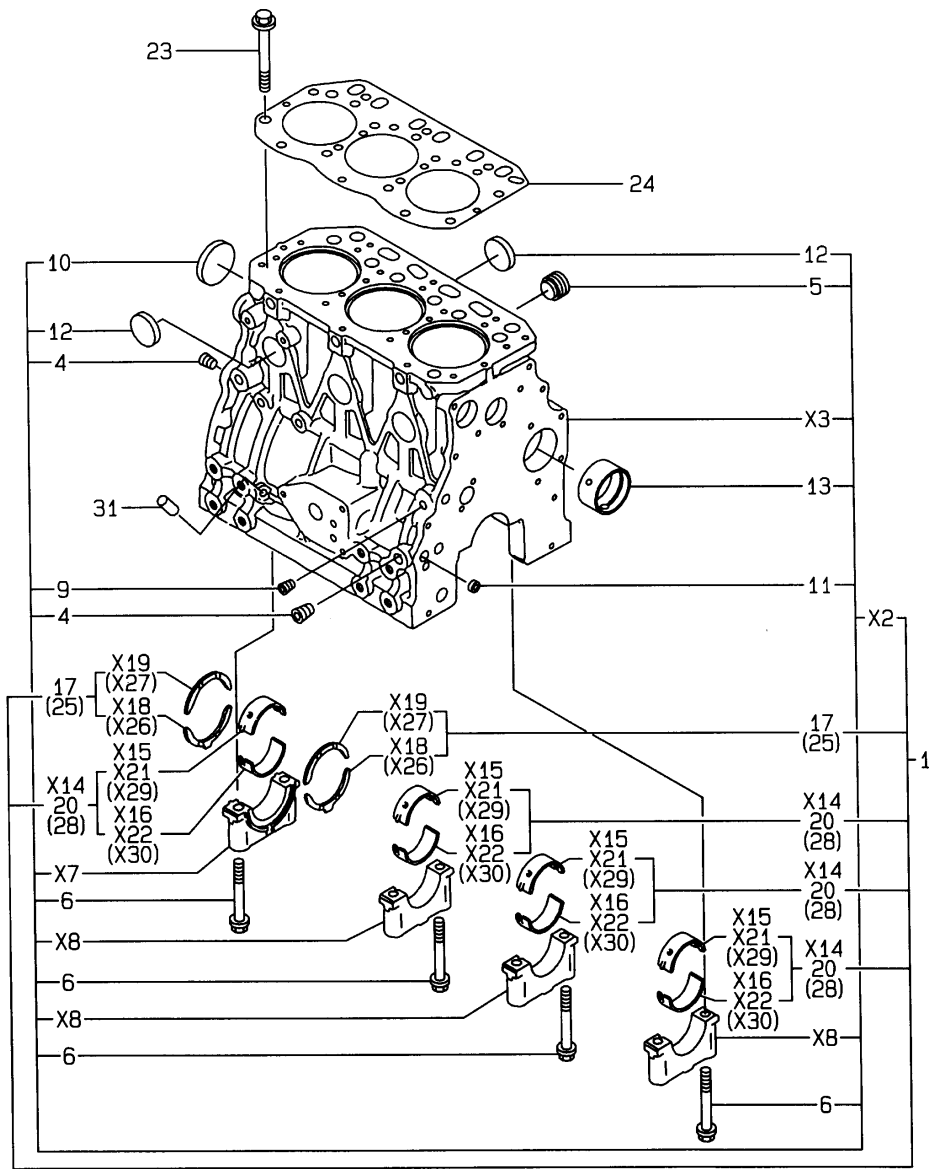
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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Fig. No.	Fig. Name	Fig. No.	Fig. Name
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3.	MOUNTING FLANGE & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
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6.	EXHAUST MANIFOLD		
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8.	CRANKSHAFT & PISTON		
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10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
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Fig.1. CYLINDER BLOCK

1.CYLINDER BLOCK

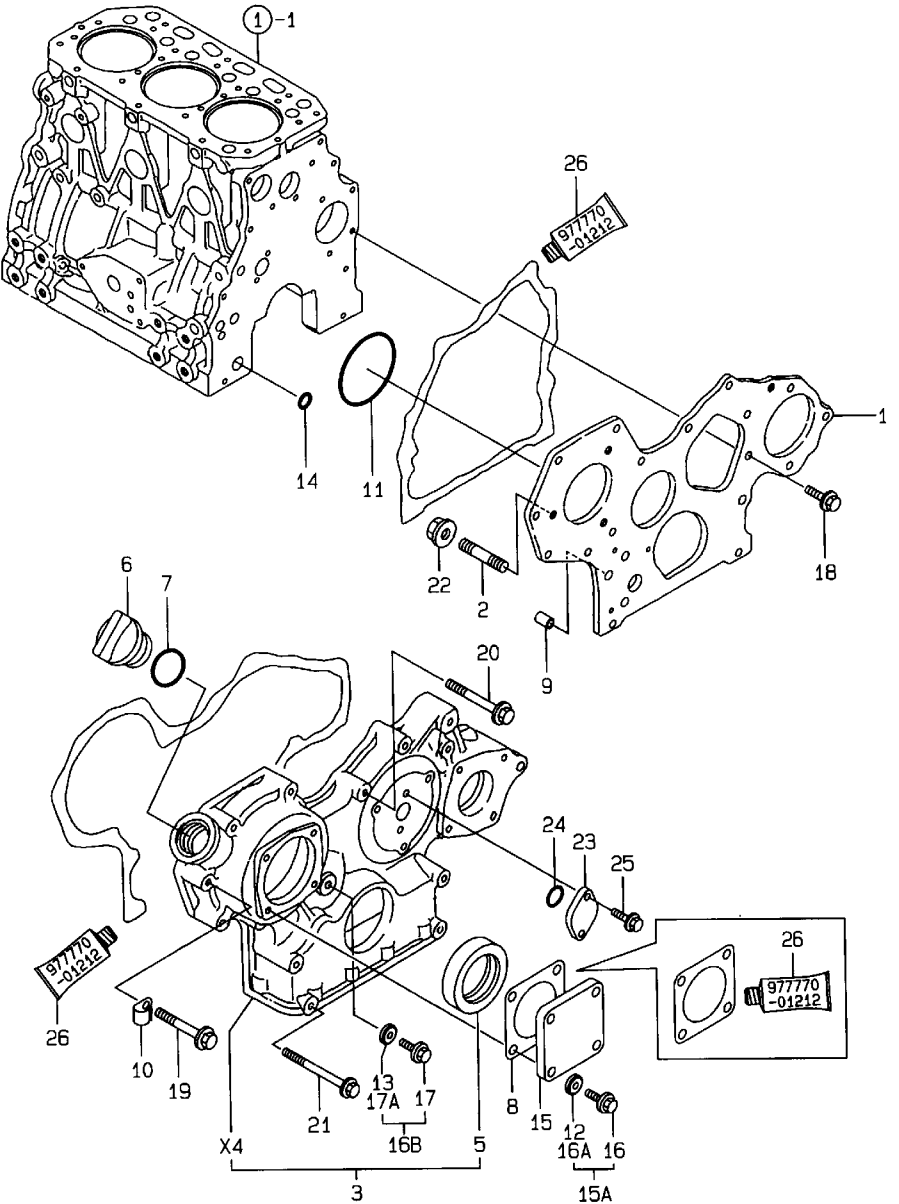


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729001-01560	BLOCK ASSY, CYLINDER	1	1						
4	3	124160-01910	PLUG, PT1/4	3	3						
5	3	171051-01921	PLUG, NPTF1	1	1						
6	3	129150-02020	BOLT, METAL CAP	8	8						
9	3	23871-010000	PLUG, R01	1							
9-1	3	23876-010000	PLUG, R01	1	1					N	
(A=E22402)											
10	3	27231-500000	PLUG 50	1							
10-1	3	129001-01250	PLUG, 50	1	1					N	
(A=E25369)											
11	3	27241-120000	PLUG, 12	2	2						
12	3	27241-300000	PLUG 30	6	6						
13	3	129795-02411	BUSH, CAMSHAFT	1	1						
17	2	129150-02930	BEARING, THRUST	2	2						
20	2	129001-02930	BEARING, MAIN	4	4						3
23	1	129150-01200	BOLT, HEAD	14	14						
24	1	129001-01340	GASKET, HEAD	1	1						
25	1	129150-02940	BEARING, THRUST 0.25	1	1						1
28	1	129150-02870	BEARING, 0.25 US	4	4						2
31	1	27225-100140	PLUG, 10X14	1	1						

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

Fig.2. GEAR HOUSING

2.GEAR HOUSING



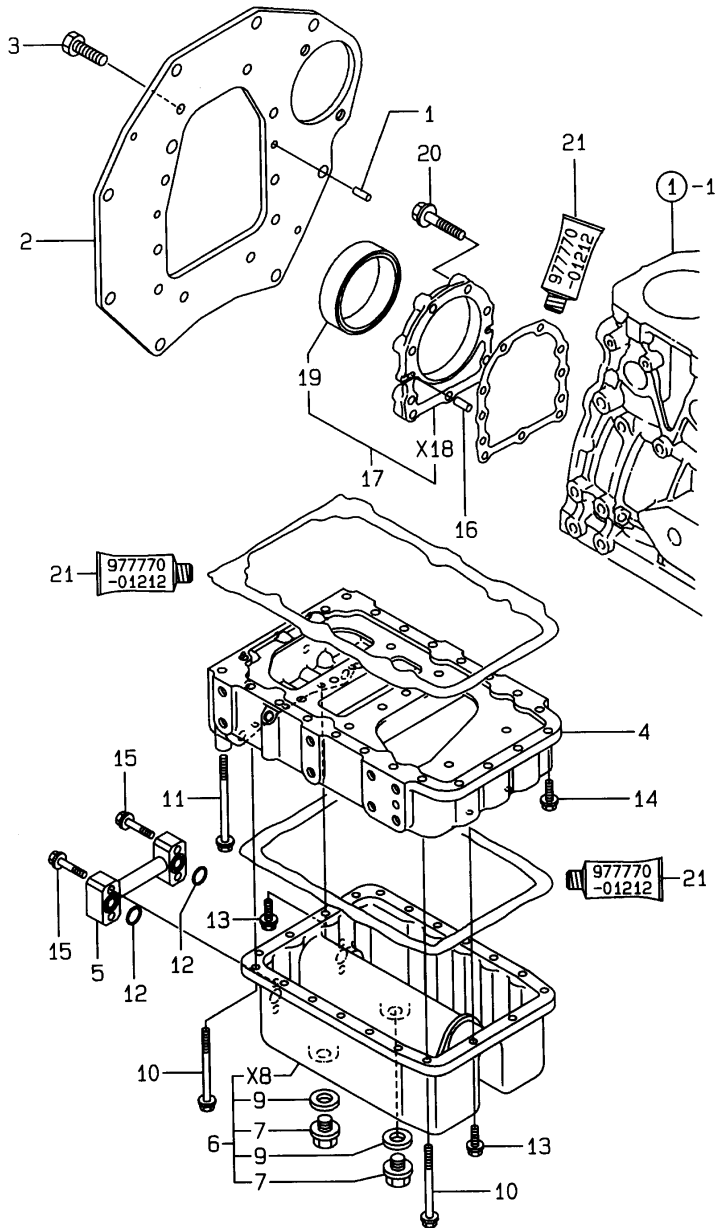
X-MARK PARTS: NOT SOLD SEPARATELY.

Remarks
(1) OPTIONAL PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171353-01520	FLANGE, GEAR CASE	1	1						
2	1	121450-01560	STUD, M8X22	3	3						
3	1	171353-01580	CASE ASSY, GEAR	1	1						
5	2	129795-01800	SEAL, OIL	1	1						
6	1	124160-01751	COVER, FILLER	1	1						
7	1	24311-000320	O-RING, 1AP32.0	1	1						
8	1	124240-01883	GASKET	1							Z
(A=E19476)											
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							Z
(A=E19476)											
13	1	22190-080002	WASHER, SEAL 6	1							Z
(A=E19476)											
14	1	24311-000160	O-RING, 1AP16.0	2	2						
15	1	124240-01871	COVER	1	1						
15A	1	124550-01590	BOLT, M8X16	4	4						W
(A=E19476)											
16	2	26106-080122	BOLT, M8X 12 PLATED	4							N
16-1	2	26106-080162	BOLT, M8X 16 PLATED	4	4						N
(A=E19476)											
16A	2	22190-080002	WASHER, SEAL 6	4							W
(A=E19476)											
16A-1	2	22190-080003	WASHER, SEAL 8	4	4						N
(A=E25369)											
16B	1	124550-01590	BOLT, M8X16	1	1						W
(A=E19476)											
17	2	26106-080162	BOLT, M8X 16 PLATED	1	1						
17A	2	22190-080002	WASHER, SEAL 6	1							W
(A=E19476)											
17A-1	2	22190-080003	WASHER, SEAL 8	1	1						N
(A=E25369)											
18	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
19	1	26106-080452	BOLT, M8X 45 PLATED	6	6						
20	1	26106-080552	BOLT, M8X 55 PLATED	3	3						
21	1	129001-91840	BOLT, M8X85	4							
21-1	1	129001-91841	BOLT, M8X85	4	4						R
(A=E30459)											
22	1	26366-080002	NUT, M8	3	3						
23	1	121023-01550	COVER	1	1						
24	1	24341-000240	O-RING, 1AS24.0	1	1						
25	1	26106-060162	BOLT, M6X 16 PLATED	2	2						
26	1	977770-01212	GASKET, LIQUID	1	1						1

Fig.3. MOUNTING FLANGE & OIL SUMP

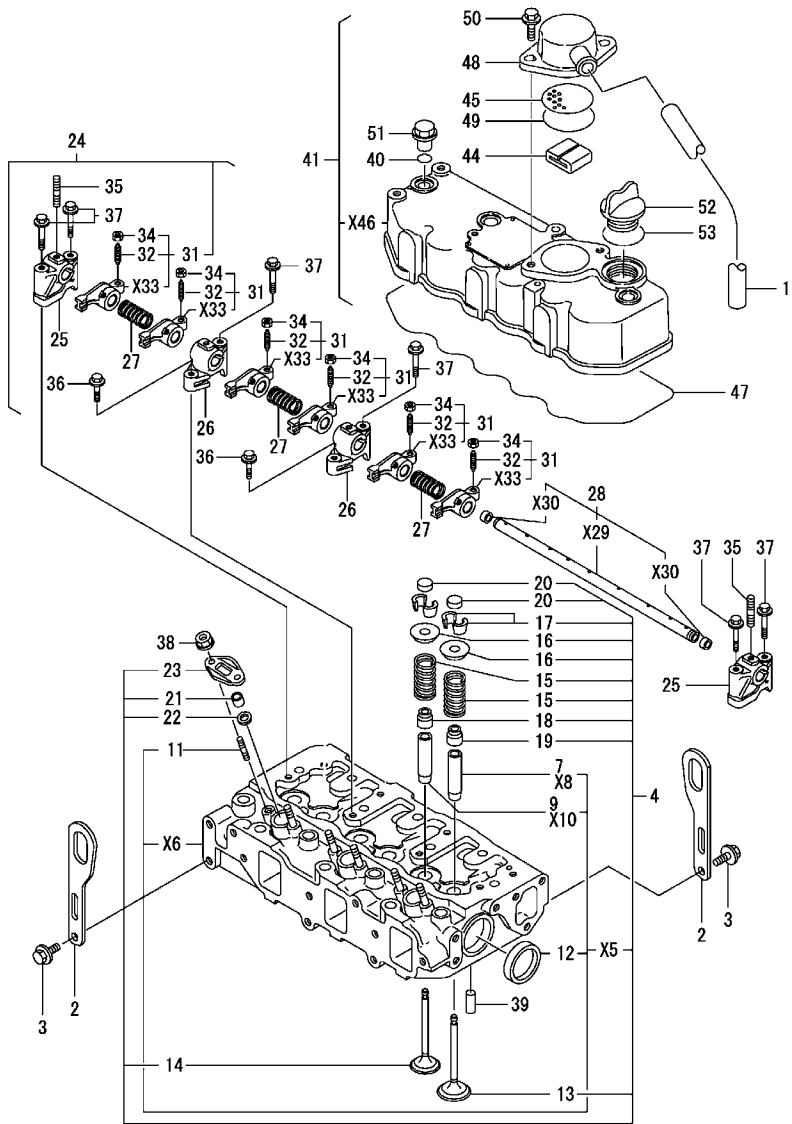
3.MOUNTING FLANGE & OIL SUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2	2						
2	1	129051-01600	FLANGE, MOUNTING	1	1						
3	1	26206-100202	BOLT, M10X 20 PLATED	8	8						
4	1	129051-01700	SPACER, OIL SUMP	1	1						
5	1	129051-01721	JOINT	1	1						
6	1	129051-01780	SUMP ASSY, OIL	1	1						
7	2	105425-01690	PLUG, 16	2	2						
9	2	22190-160002	WASHER, SEAL 16	2	2						
10	1	129001-91870	BOLT, M8X100	14	14						
11	1	129001-91910	BOLT, M8X120	4	4						
12	1	24311-000180	O-RING, 1AP18.0	2	2						
13	1	26106-080252	BOLT, M8X 25 PLATED	6	6						
14	1	26106-080252	BOLT, M8X 25 PLATED	4	4						
15	1	26106-080402	BOLT, M8X 40 PLATED	4	4						
16	1	129100-01580	PIN, M8X16	2	2						
17	1	129100-01640	CASE ASSY, OIL SEAL	1	1						
19	2	129795-01780	SEAL, OIL	1	1						
20	1	129486-01670	BOLT, M8X30	9	9						
21	1	977770-01212	GASKET, LIQUID	1	1						1

Remarks
(1) OPTIONAL PART.

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	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	129051-11700	HEAD ASSY, CYLINDER	1	1						1
7	3	120130-11860	GUIDE, VALVE	3	3						1
9	3	129150-11810	GUIDE, VALVE	3	3						1
11	3	26216-060202	STUD, M6X 20	6	6						
12	3	27241-400000	PLUG, 40	2	2						
13	2	129100-11100	VALVE, INTAKE	3	3						
14	2	129100-11110	VALVE, EXHAUST	3	3						
15	2	129795-11120	SPRING, VALVE	6	6						
16	2	129795-11180	RETAINER, SPRING	6	6						
17	2	27310-080001	COTTER, 8	6	6						
18	2	121400-11340	SEAL, VALVE STEM	3	3						
19	2	124460-11340	SEAL, VALVE STEM	3	3						
20	2	129150-11370	CAP, VALVE	6	6						
21	2	119625-11870	PROTECTOR, NOZZLE	3	3						
22	2	119625-11880	SEAT, NOZZLE	3	3						
23	2	119625-11900	RETAINER, NOZZLE	3	3						
24	1	129155-11241	SHAFT ASSY, ROCKER	1	1						
25	2	129155-11260	SUPPORT, ROCKER ARM	2	2						
26	2	129155-11270	SUPPORT, ROCKER ARM	2	2						
27	2	129150-11280	SPRING	3	3						
28	2	129150-11290	SHAFT, ROCKER ARM	1	1						
31	2	729402-11650	ARM ASSY, ROCKER	6	6						
32	3	129150-11230	SCREW, VALVE ADJUST	6	6						
34	3	129150-11750	NUT, M8	6	6						
35	2	26226-080182	STUD, M8X 18	3	3						
36	1	26106-080252	BOLT, M8X 25 PLATED	2	2						
37	1	26106-080502	BOLT, M8X 50 PLATED	6	6						
38	1	26366-060002	NUT, M6	6	6						
39	1	22351-060012	PIN, SPRING 6.0X12	2	2						
40	1	24311-000120	O-RING, 1AP12.0	3	3						
41	1	129100-11350	BONNET ASSY, HEAD	1							
41-1	1	129100-11351	BONNET ASSY, HEAD	1							N
(A=E25945)											
41-2	1	729132-11521	BONNET ASSY, HEAD	1	1						R
(A=EXXX)											
44	2	129150-03070	BAFFLE, BREATHER	1	1						
45	2	129150-03080	PLATE, BAFFLE	1	1						
47	2	129150-11310	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	124160-01751	COVER, FILLER	1	1						
53	1	24311-000320	O-RING, 1AP32.0	1	1						

Remarks
(1) REPAIR PART.

This diagram illustrates the exploded view of the engine valve train assembly. The components are labeled as follows:

- 1**: Valve cover (top)
- 2**: Valve cover (bottom)
- 3**: Valve cover gasket
- 4**: Valve cover bolt
- 4-4**: Valve cover gasket (bottom)
- 5**: Valve cover gasket
- 6**: Valve cover gasket
- 7**: Valve cover gasket

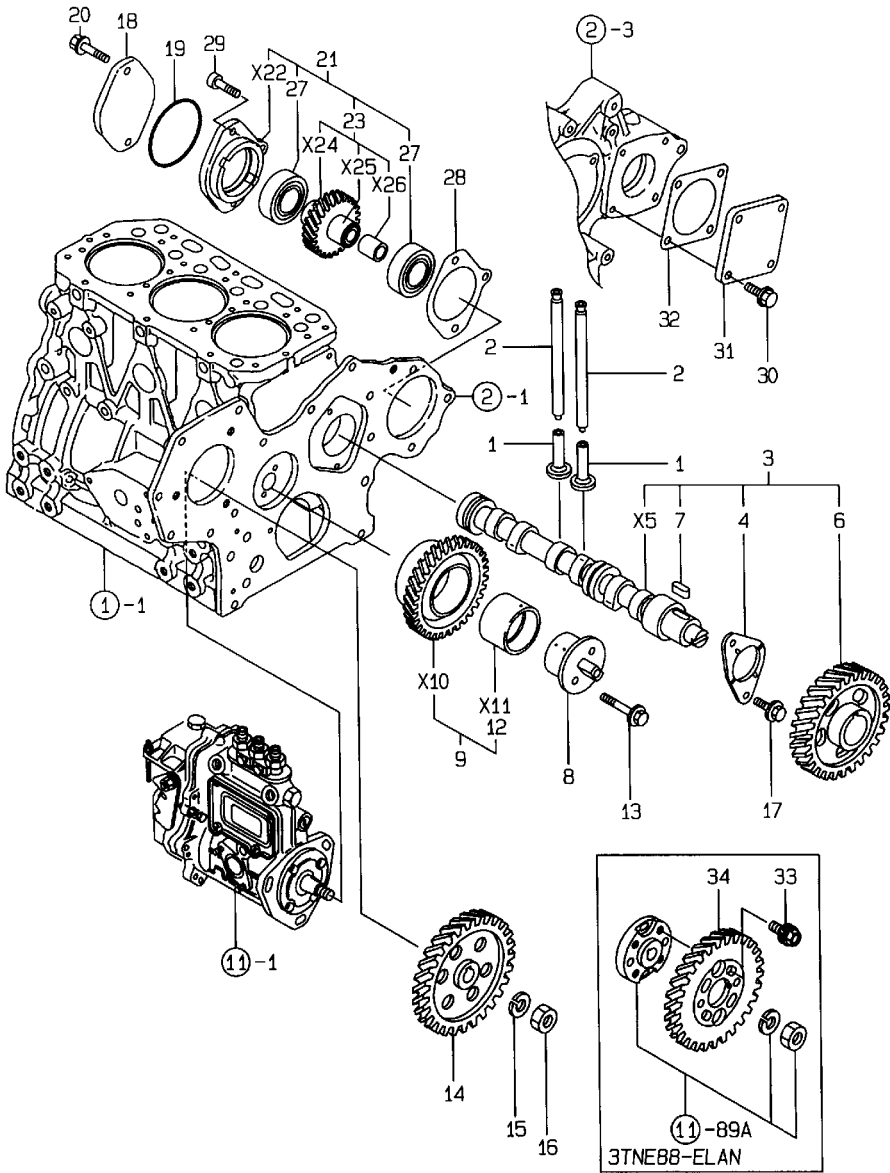
[illegible]

This diagram shows an exploded view of a mechanical assembly. The components are labeled with numbers 1 through 7. Component 1 is the main base plate. Component 2 is a bracket that fits onto the base. Component 3 is a small circular cap or plug. Component 4 is a long bolt or screw. Component 5 is a short bolt or screw. Component 6 is a small cylindrical pin or spacer. Component 7 is a square flange or plate with four mounting holes. The diagram illustrates how these parts fit together to form a complete assembly.

[illegible]

Fig.7. CAMSHAFT & DRIVING GEAR

7.CAMSHAFT & DRIVING GEAR



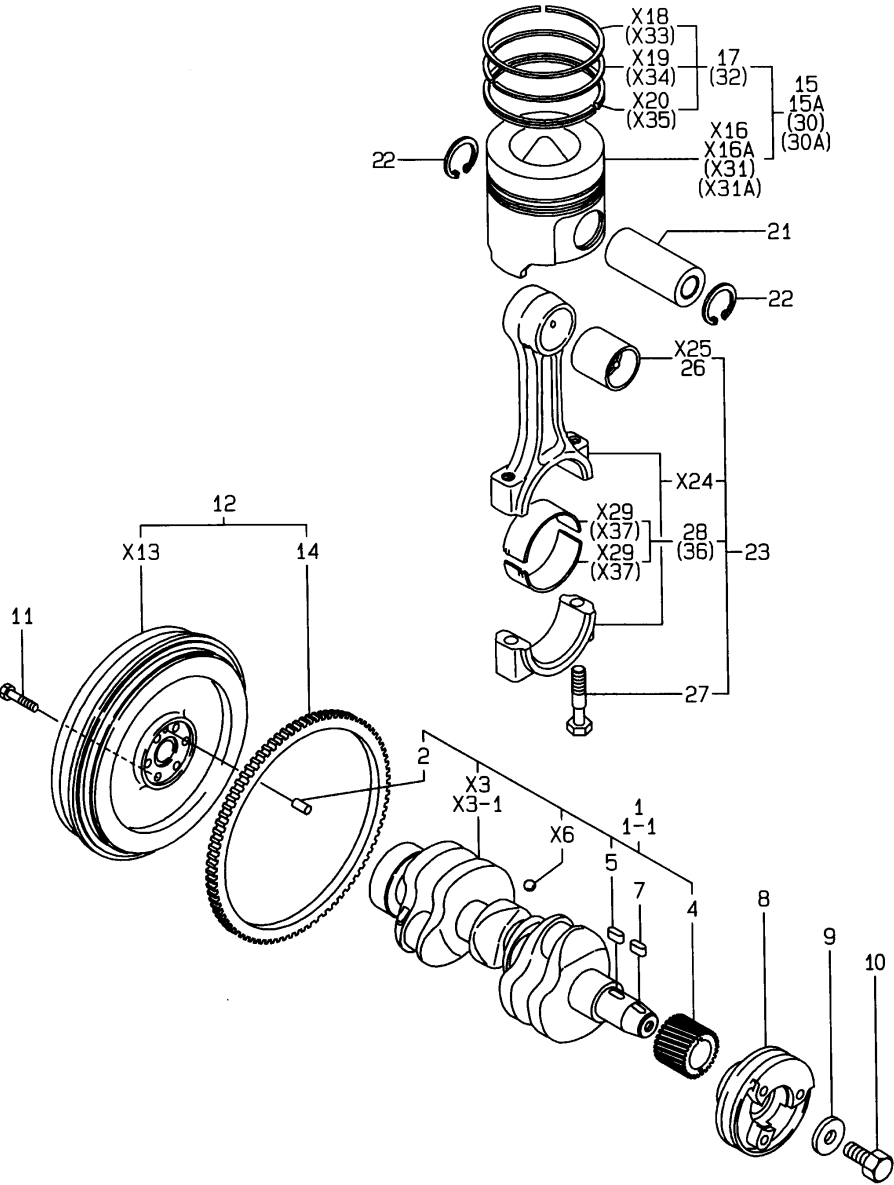
X-MARK PARTS: NOT SOLD SEPARATELY.

Remarks
(1) REPAIR PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6	6						
2	1	129150-14400	ROD, PUSH L=178	6	6						
3	1	129129-14580	CAMSHAFT ASSY	1	1						
4	2	129150-02450	BEARING, THRUST	1	1						
6	2	129150-14101	GEAR, CAMSHAFT	1	1						
7	2	22512-070140	KEY, 7X 14	1	1						
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	129150-25900	GEAR, PUMP	1							
15	1	22217-120000	WASHER, SPRING 12	1							
16	1	26716-120002	NUT, M12	1							
17	1	26106-080142	BOLT, M8X 14 PLATED	2	2						
18	1	121023-26070	COVER	1	1						
19	1	24321-000850	O-RING, 1AG85.0	1	1						
20	1	26106-100452	BOLT, M10X 45 PLATED	2	2						
21	1	129051-26200	DRIVE ASSY, PUMP	1	1						
23	2	129051-26210	GEAR ASSY, PUMP	1	1						
27	2	24105-060064	BEARING, BALL 6006Z	2	2						
28	1	171353-26081	GASKET	1	1						
29	1	26450-080282	BOLT, M8X 28	1	1						
30	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
31	1	124240-01871	COVER	1	1						
32	1	124240-01883	GASKET	1	1						
33	1	129150-25301	BOLT		4						
34	1	129150-25931	GEAR, PUMP		1						

Fig.8. CRANKSHAFT & PISTON

8.CRANKSHAFT & PISTON

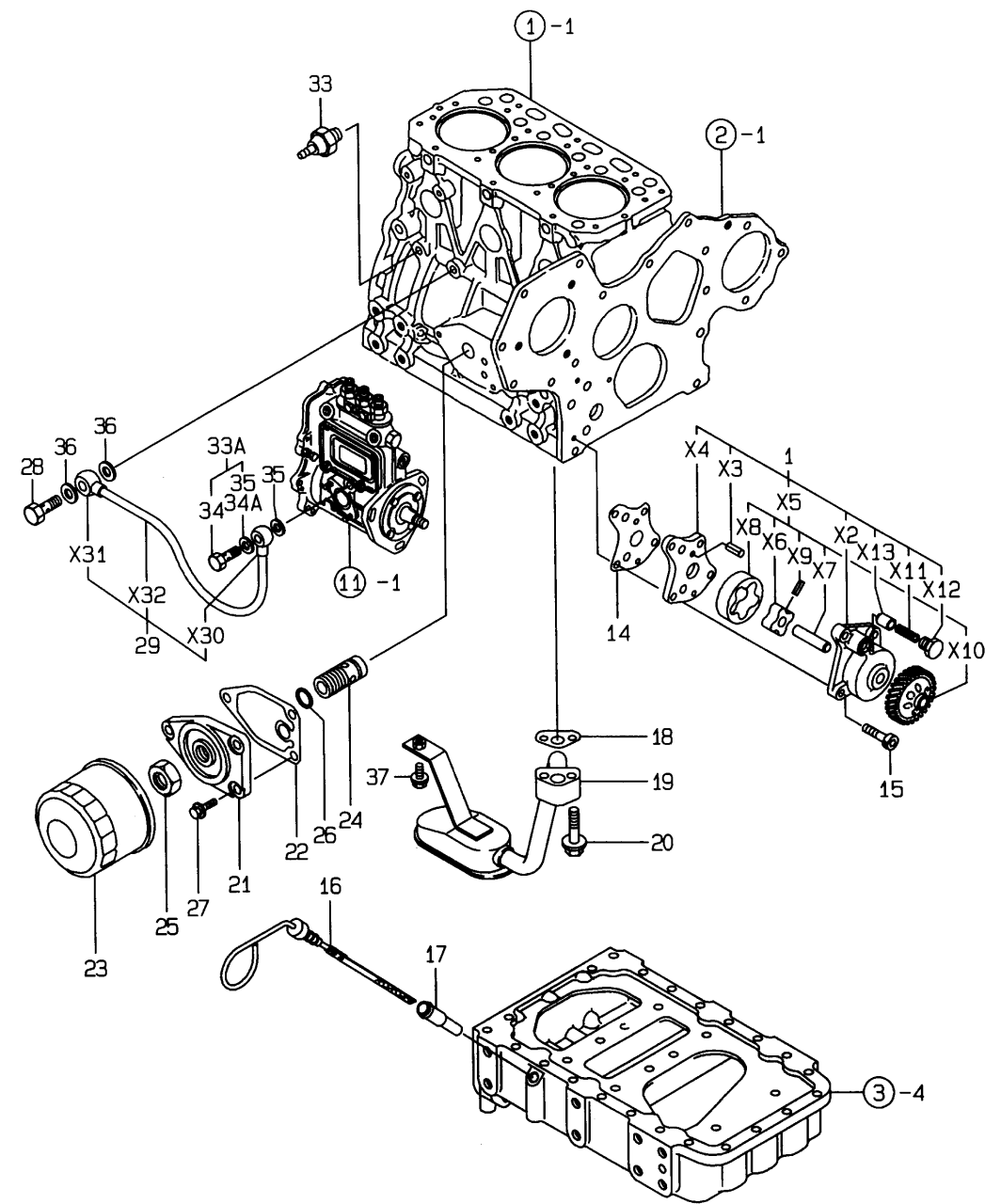


Remarks
(1) REPAIR PART.
(2) OVER-SIZE(O.S=0.25)PART.
(3) UNDER-SIZE(U.S=0.25)PART.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-21000	CRANKSHAFT ASSY	1							
1-1	1	129001-21100	CRANKSHAFT ASSY	1	1						S
(A=E32272)											
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	22512-070160	KEY, 7X 16	1							
7-1	1	22512-070140	KEY, 7X 14	1	1						N
(A=E19476)											
8	1	129051-21660	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	129051-21580	FLYWHEEL ASSY	1	1						
14	2	119865-21600	GEAR, RING	1	1						
15	1	129001-22081	PISTON ASSY	3							
15A	1	129001-22070	PISTON ASSY		3						
17	2	129001-22500	RING SET, PISTON	3	3						
21	1	129202-22300	PIN, PISTON D26 L70	3	3						
22	1	22252-000260	RING, 26	6	6						
23	1	729402-23100	ROD ASSY, CONNECTING	3	3						
26	2	129100-23910	BEARING, PISTON PIN	3	3						1
27	2	121550-23200	BOLT, CONNECTING ROD	6	6						
28	2	129150-23600	BEARING, CRANK PIN	3	3						
30	1	129001-22901	PISTON ASSY, 0.25 OS	3							2
30A	1	129001-22930	PISTON ASSY, 0.25 OS		3						2
32	2	129001-22950	RING SET, 0.25 OS	3	3						2
36	1	129150-23610	BEARING, 0.25 US	3	3						3

Fig.9. LUB.OIL SYSTEM

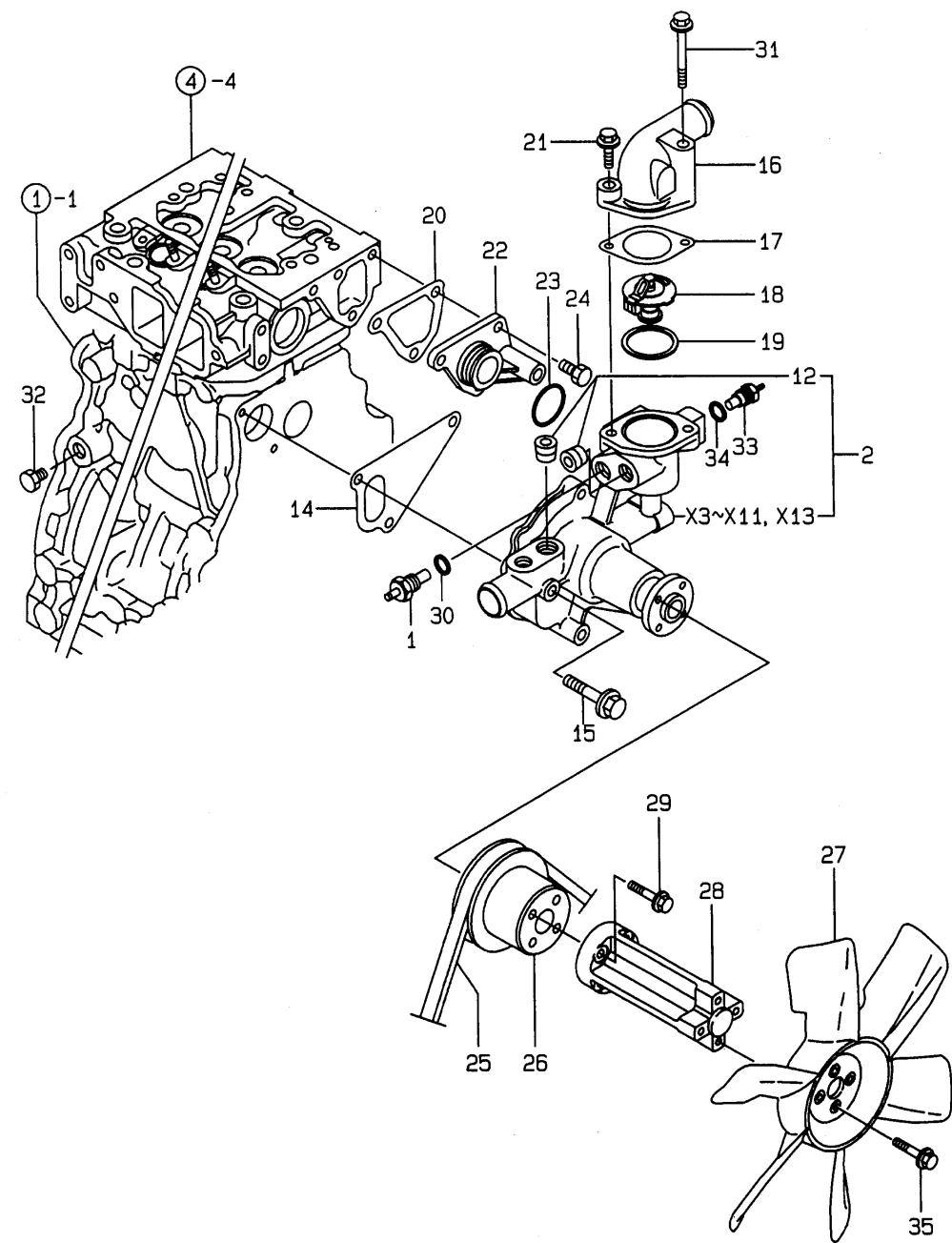
9.LUB.OIL SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1	1						
14	1	129150-32020	GASKET, PUMP	1	1						
15	1	26450-060252	BOLT, M6X 25	4	4						
16	1	129457-34800	DIPSTICK, OIL	1	1						
17	1	121520-34810	GUIDE, DIPSTICK	1	1						
18	1	129150-35041	GASKET	1	1						
19	1	129051-35090	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	124160-39140	BOLT, PIPE JOINT M10	1	1						
29	1	129150-39450	PIPE ASSY, OIL	1	1						
33	1	124160-39450	SWITCH, 0.5KG	1							
33-1	1	114250-39450	SWITCH, 0.5KG	1	1						N
(A=E27040)											
33A	1	124550-59830	BOLT ASSY, JOINT M8	1	1						W
(A=E19476)											
34	2	124550-59820	BOLT, PIPE JOINT M8	1	1						
34A	2	23414-080000	GASKET, 8X1.0	1							W
(A=E19476)											
34A-1	2	22190-080002	WASHER, SEAL 6	1	1						N
(A=E25369)											
35	1	23414-080000	GASKET, 8X1.0	2							
35-1	1	23414-080000	GASKET, 8X1.0	1							K
(A=E19476)											
35-2	1	22190-080002	WASHER, SEAL 6	1	1						N
(A=E25369)											
36	1	23414-100000	GASKET, 10X1.0	2							
36-1	1	22190-100002	WASHER, SEAL 10	2	2						N
(A=E25369)											
37	1	26106-080102	BOLT, M8X 10 PLATED	1	1						W
(A=E21322)											

Fig.10. COOLING WATER SYSTEM

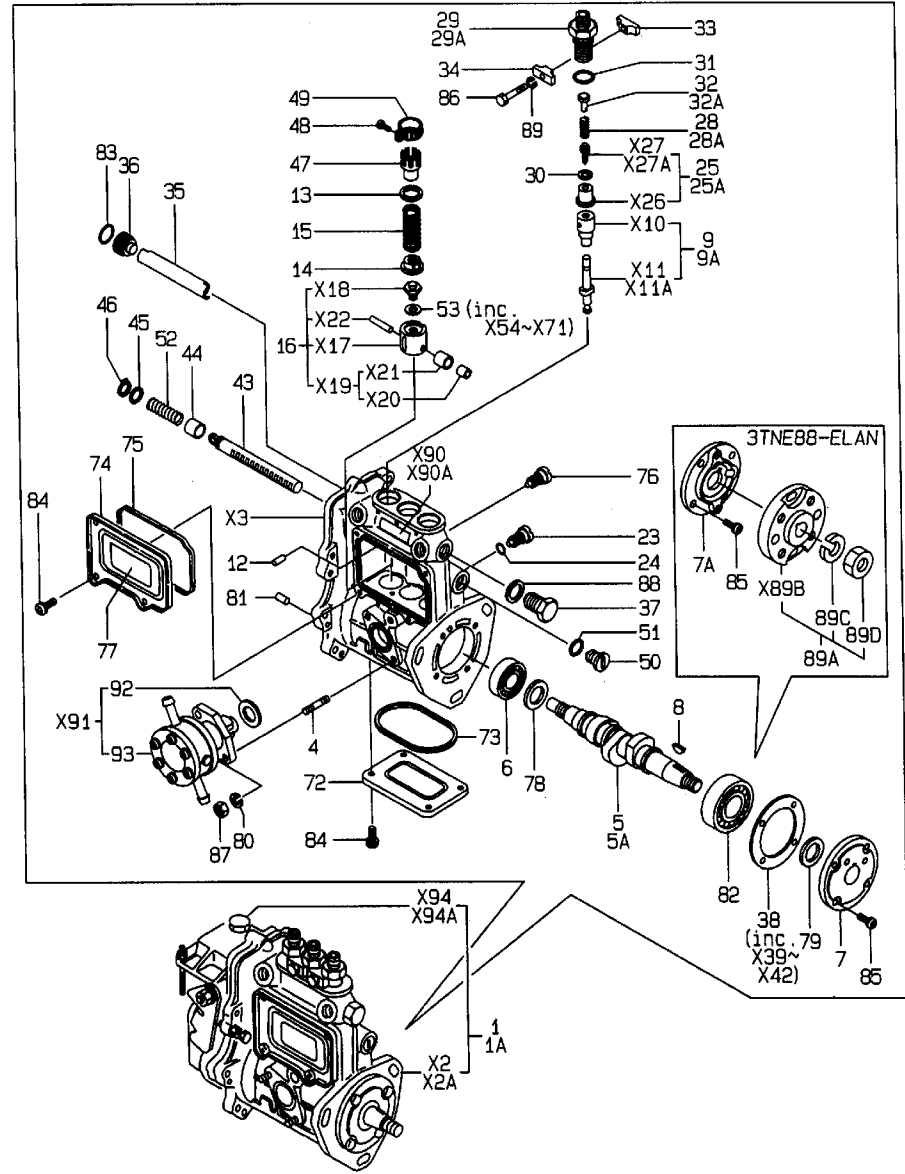
10.COOLING WATER SYSTEM



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							
2-1	1	129001-42003	PUMP ASSY, WATER	1	1						N
(A=E24129)											
12	2	23871-030000	PLUG, R03	2							
12-1	2	23876-030000	PLUG, R03	2	2						N
(A=E22402)											
14	1	129100-42020	GASKET, WATER PUMP	1							
14-1	1	129486-42021	GASKET, WATER PUMP	1	1						N
(A=E24129)											
15	1	26106-080602	BOLT, M8X 60 PLATED	3	3						
16	1	124101-49530	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							
20-1	1	124395-49840	GASKET	1	1						N
(A=E30459)											
21	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
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=E23368)											
24	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
25	1	25132-003600	V-BELT, A36	1	1						
26	1	129556-42350	V-PULLEY, 96	1	1						
27	1	129354-44740	FAN, COOLING	1	1						
28	1	129051-44760	SPACER, FAN	1	1						
29	1	26014-060302	BOLT, M6X 30	4	4						
30	1	124465-44950	GASKET, 16	1	1						
31	1	26106-080652	BOLT, M8X 65 PLATED	1	1						
32	1	171056-49120	PLUG, DRAIN	1	1						
33	1	124250-49351	SENSOR	1	1						
34	1	129150-49360	GASKET	1	1						
35	1	26106-060222	BOLT, M6X 22 PLATED	4							
35-1	1	26106-060182	BOLT, M6X 18 PLATED	4	4						N
(A=E21778)											

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP

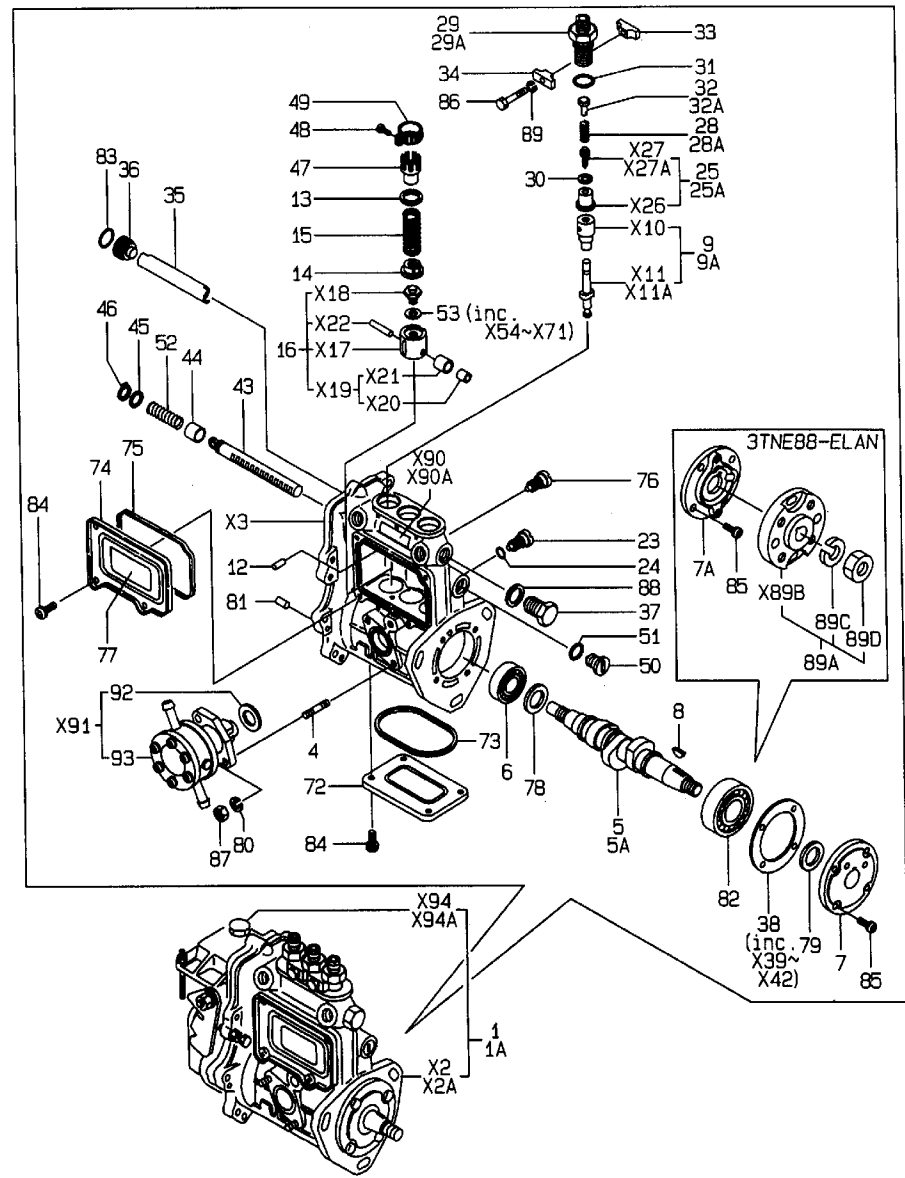


Remarks
(1) GOVERNOR(FIG.NO.12)IS INCORPORATED IN THIS FUEL INJECTION PUMP.
(REF.NO.1,1A).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729051-51390	PUMP ASSY, INJECTION	1							1
1A	1	729051-51450	PUMP ASSY, INJECTION		1						1
4	3	129155-51020	STUD	2	2						
5	3	119810-51040	CAMSHAFT	1							
5A	3	129171-51040	CAMSHAFT		1						
6	3	129155-51050	BEARING, 17BM001D	1	1						
7	3	129155-51060	SUPPORT, CAMSHAFT	1							
7A	3	129208-51060	SUPPORT		1						
8	3	122710-51090	KEY	1	1						
9	3	129470-51101	PLUNGER ASSY	3							
9A	3	129506-51100	PLUNGER ASSY		3						
12	3	129155-51140	PIN	3	3						
13	3	174307-51170	RETAINER, SPRING A	3	3						
14	3	129155-51180	RETAINER, SPRING	3	3						
15	3	124950-51190	SPRING, PLUNGER	3	3						
16	3	129155-51200	TAPPET ASSY	3	3						
23	3	129155-51270	STOPPER, TAPPET	3	3						
24	3	129155-51280	O-RING, S6	3	3						
25	3	129100-51300	VALVE ASSY, DELIVERY	3							
25A	3	129209-51300	VALVE ASSY, DELIVERY		3						
28	3	129155-51320	SPRING, DELIVERY	3							
28A	3	129573-51330	SPRING, DELIVERY		3						
29	3	129155-51340	RETAINER	3							
29A	3	129573-51340	RETAINER		3						
30	3	124550-51350	GASKET, DELIVERY	3	3						
31	3	124550-51370	O-RING	3	3						
32	3	129155-51370	STOPPER, VALVE	3							
32A	3	129573-51370	STOPPER, VALVE		3						
33	3	129155-51380	STOPPER	2	2						
34	3	129155-51390	STOPPER	2	2						
35	3	129155-51400	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	129155-51500	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	3	3						
48	3	122117-51560	SCREW	3	3						
49	3	174307-51560	PINION	3	3						
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	3	3						
72	3	129155-51700	COVER	1							
72-1	3	129155-51701	COVER	1	1						N
(A=E27891)											
73	3	129155-51710	GASKET	1							
73-1	3	129155-51711	GASKET	1	1						N
(A=E32272)											

Fig.11. FUEL INJECTION PUMP

11.FUEL INJECTION PUMP

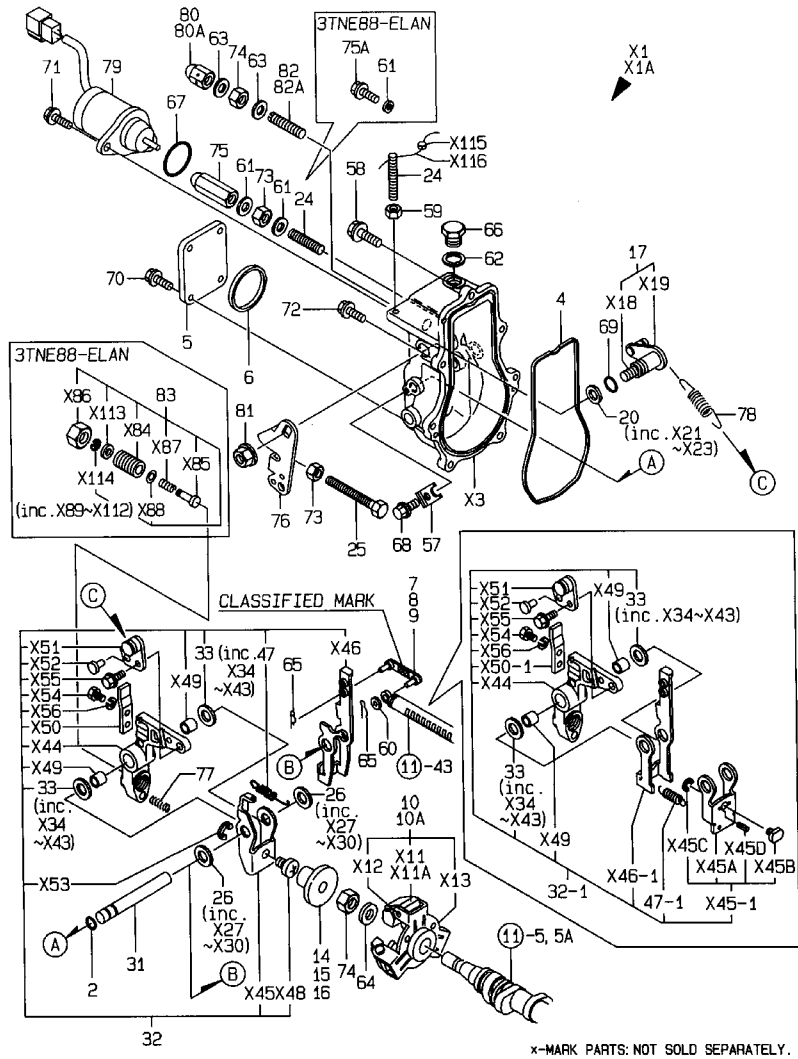


Remarks
(1) GOVERNOR(FIG.NO.12)IS INCORPORATED IN THIS FUEL INJECTION PUMP.
(REF.NO.1,1A).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
74	3	129155-51750	COVER	1							
74-1	3	129155-51751	COVER	1	1						N
(A=E27891)											
75	3	129155-51760	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	22217-060000	WASHER, SPRING 6	2	2						
81	3	22351-050010	PIN, SPRING 5.0X10	2	2						
82	3	24101-063034	BEARING, BALL 6303	1	1						
83	3	24341-000160	O-RING, 1AS16.0	1	1						
84	3	26022-050102	SCREW, M5X10	8							
84-1	3	26022-050122	SCREW, M5X12	8	8						N
(A=E27891)											
85	3	26022-060162	SCREW, M6X16	4	4						
86	3	26116-050302	BOLT, M5X 30 PLATED	2	2						
87	3	26716-060002	NUT, M6	2	2						
88	3	22190-160002	WASHER, SEAL 16	1	1						
89	3	22217-050000	WASHER, SPRING 5	2	2						
89A	3	129208-54500	FLANGE ASSY		1						
89C	4	22217-120000	WASHER, SPRING 12		1						
89D	4	26716-120002	NUT, M12		1						
92	3	129155-52050	GASKET	1	1						
93	3	129100-52100	PUMP ASSY, FUEL FEED	1	1						

Fig.12. GOVERNOR

12. GOVERNOR



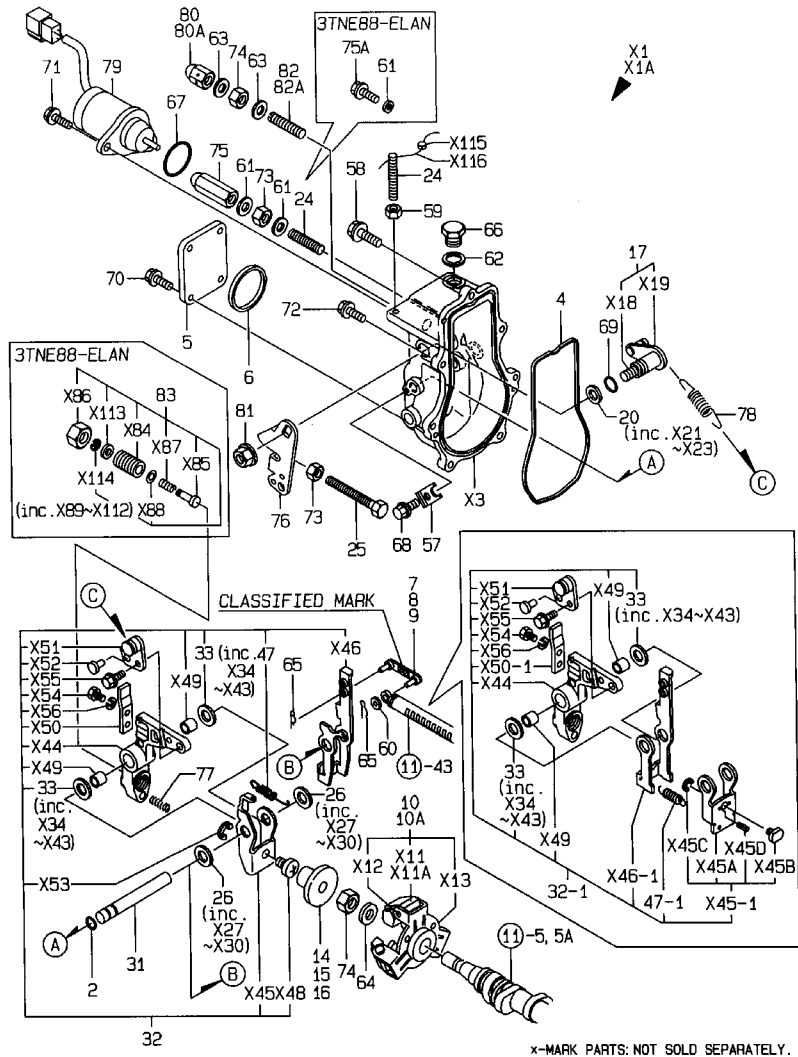
x-MARK PARTS: NOT SOLD SEPARATELY.

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							
10-1	3	129155-61202	WEIGHT ASSY,GOVERNOR	1							R
(A=E27891)											
10A	3	129486-61201	WEIGHT ASSY,GOVERNOR		1						
14	3	129155-61341	SLEEVE	1	1						2
15	3	129155-61350	SLEEVE, L=24.9	1	1						2
16	3	129155-61360	SLEEVE, L=25.2	1	1						2
17	3	129100-61400	SHAFT ASSY	1	1						
20	3	129155-61430	SPACER	1	1						
24	3	129155-61450	BOLT, LIMITER	2	1						
25	3	129155-61460	BOLT, IDLE	1	1						
26	3	129155-61480	SPACER ASSY	2	2						
31	3	129052-61390	SHAFT	1	1						
32	3	129052-61500	LEVER ASSY, GOVERNOR	1							
32-1	3	119908-61501	LEVER ASSY, GOVERNOR	1	1						R
(A=E32272)											
33	4	174307-51700	SHIM SET	2	2						
47	4	129052-61540	SPRING, SET	1							
47-1	4	129486-61540	SPRING, SET	1	1						S
(A=E32272)											
57	3	119660-61901	RETAINER, SHAFT	1	1						
58	3	129155-61950	BOLT	1	1						
59	3	124550-66370	NUT, M6	1	1						
60	3	22117-040000	WASHER, 4	1	1						
61	3	22190-060003	SEAL WASER 6	2	1						
62	3	22190-100002	WASHER, SEAL 10	1	1						
63	3	22190-120002	WASHER, SEAL 12	2	2						
64	3	22287-120000	WASHER, 12	1	1						
65	3	22372-040000	PIN, SNAP 4	2	2						
66	3	23887-100002	PLUG, 10	1	1						
67	3	24341-000280	O-RING, 1AS28.0	1	1						
67-1	3	158552-61900	O-RING	1	1						N
(A=EXXXXXX) (B=EXXXXXX)											
68	3	26106-060102	BOLT, M6X 10 PLATED	1	1						
69	3	129155-61830	O-RING, S10	1	1						
70	3	26106-060102	BOLT, M6X 10 PLATED	4	4						
71	3	26106-060142	BOLT, M6X 14 PLATED	2	2						
72	3	26106-060202	BOLT, M6X 20 PLATED	6	6						
73	3	26756-060002	NUT, LOCK M6	2	1						
74	3	26776-120002	NUT, LOCK M12	2	2						
75	3	119600-66840	NUT, CAP	1							
75A	3	26106-060102	BOLT, M6X 10 PLATED		1						
76	2	129100-61440	LEVER, CONTROL	1	1						
77	2	129100-61650	SPRING, CONTROLLER	1	1						

OCV10-M60101
Fig.12. GOVERNOR

12. GOVERNOR

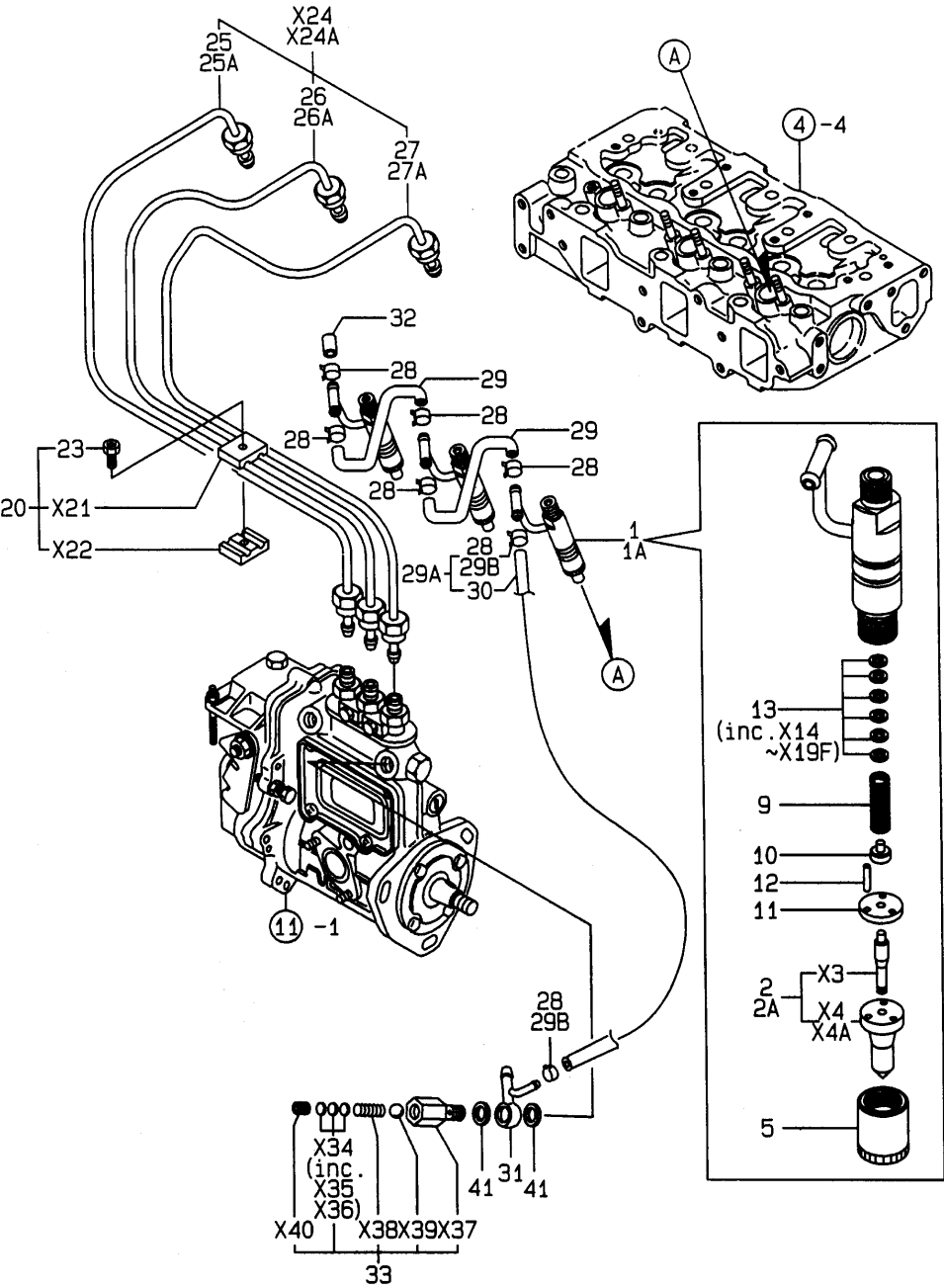


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
78	2	171353-61710	SPRING, GOVERNOR	1	1						
79	2	119653-77950	SOLENOID, STOP	1	1						
80	2	26687-120002	NUT, CAP M12	1							
80A	2	129100-61930	NUT, CAP		1						
81	2	26366-080002	NUT, M8	1	1						
82	2	129155-61470	BOLT, CONTROL	1							
82A	2	120323-61470	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

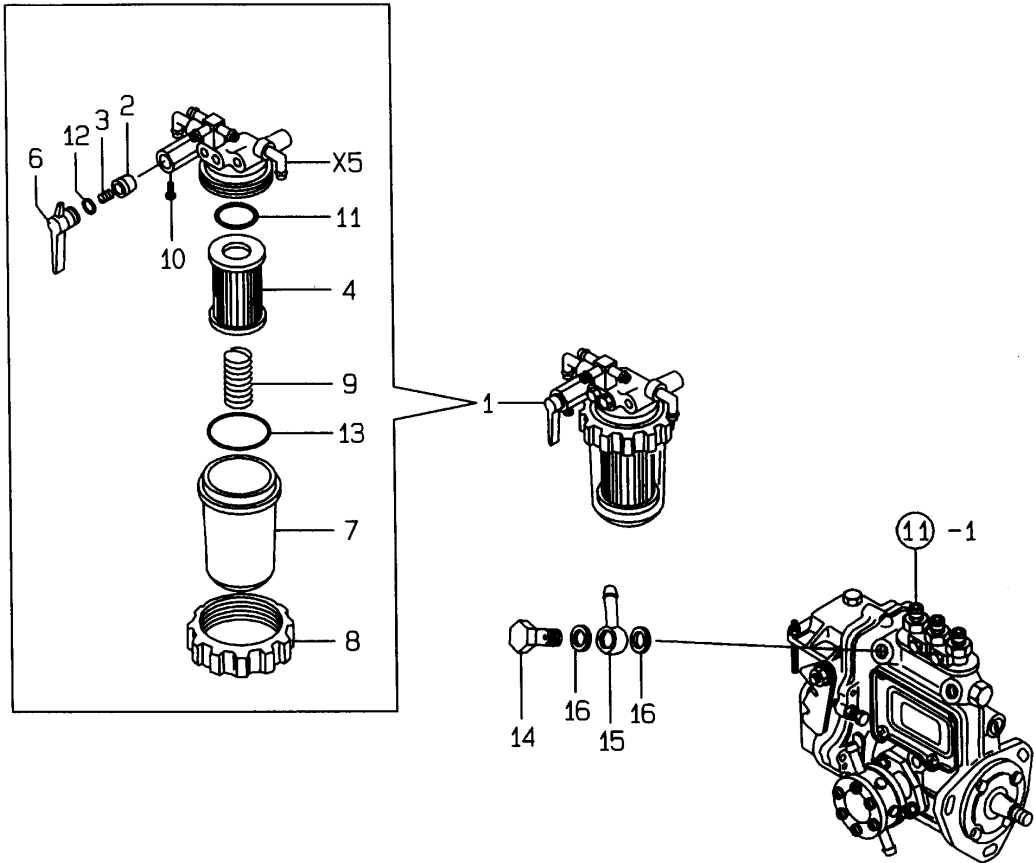
13.FUEL INJECTION VALVE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729503-53100	VALVE ASSY,INJECTION	3							
1A	1	729209-53100	VALVE ASSY,INJECTION		3						
2	2	129503-53000	VALVE ASSY,INJECTION	3							
2A	2	129209-53000	VALVE ASSY,INJECTION		3						
5	2	114250-53080	NUT, NOZZLE D16.95	3	3						
9	2	114250-53120	SPRING, NOZZLE	3	3						
10	2	114250-53130	SEAT, SPRING	3	3						
11	2	114250-53140	PLATE	3	3						
12	2	114250-53210	PIN	6	6						
13	2	114250-53400	SHIM SET	3	3						
20	1	119305-59120	RETAINER, PIPE	2	2						
23	2	129150-59131	BOLT, M4X14	2	2						
25	2	129052-59710	PIPE ASSY, INJECTION	1							
25-1	2	129052-59711	PIPE ASSY, INJECTION	1							N
(A=E29322)											
25A	2	129052-59810	PIPE ASSY, INJECTION		1						
26	2	129052-59720	PIPE ASSY, INJECTION	1							
26A	2	129052-59820	PIPE ASSY, INJECTION		1						
27	2	129052-59730	PIPE ASSY, INJECTION	1							
27A	2	129052-59830	PIPE ASSY, INJECTION		1						
28	1	124066-59100	CLIP, HOSE 8	7	7						
29	1	121250-59550	PIPE, FUEL D8X120	2	2						
29A	1	119840-59500	PIPE ASSY, RETURN	1	1						W
(A=E27040)											
29B	2	124066-59100	CLIP, HOSE 8	2	2						W
(A=E27040)											
30	2	119840-59560	PIPE, FUEL RETURN	1	1						
31	1	119808-59570	JOINT, OVER FLOW	1							
31-1	1	119840-59570	JOINT	1	1						N
(A=FROM 1ST)											
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=E23368)											

OCV10-M60101
Fig.14. FUEL LINE

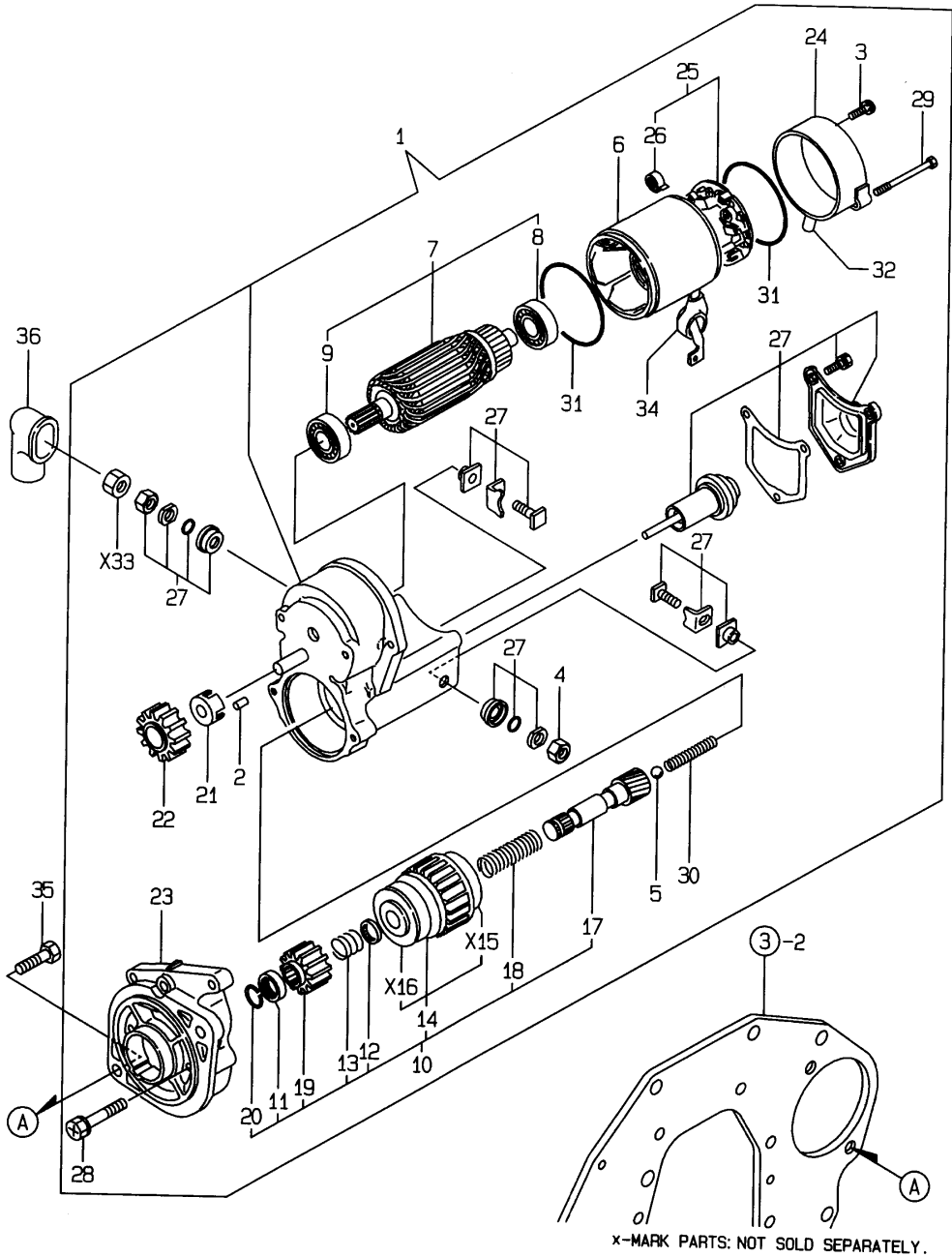
14.FUEL LINE



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						

Fig.15. STARTING MOTOR

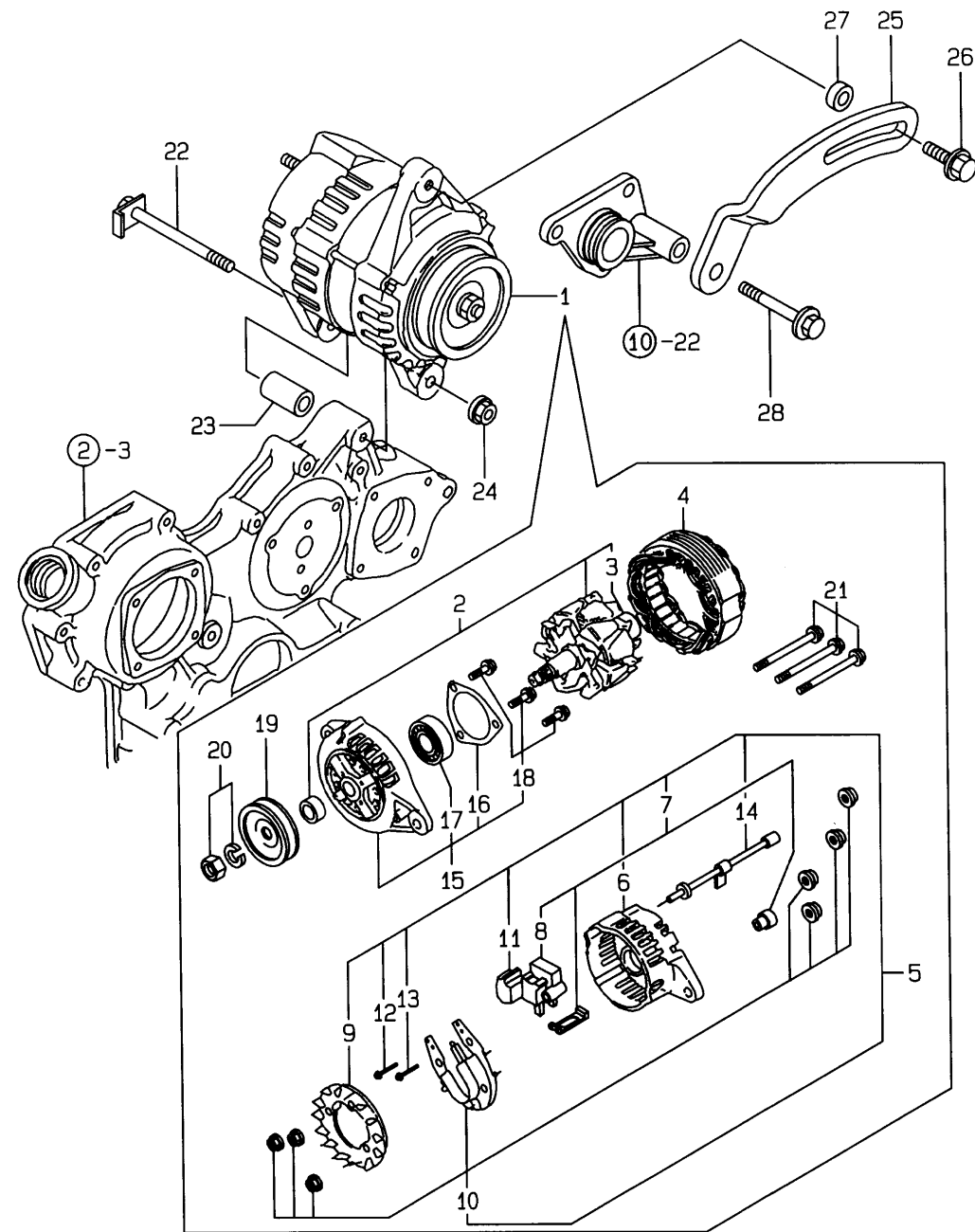
15.STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129129-77010	STARTER ASSY	1	1						
2	2	X0283060061	ROLLER	5	5						
3	2	129129-77460	SCREW	2	2						
4	2	X9490561370	NUT	1	1						
5	2	X9491200240	BALL	1	1						
6	2	129129-77210	YOKE ASSY	1	1						
7	2	129129-77220	ARMATURE ASSY	1	1						
8	3	129129-77230	BEARING	1	1						
9	3	129129-77240	BEARING	1	1						
10	2	129129-77250	STARTER	1	1						
11	3	X0280210230	NUT	1	1						
12	3	X0283270140	RETAINER	1	1						
13	3	X9491703371	SPRING, COIL	1	1						
14	3	129129-77390	CLUTCH ASSY	1	1						
17	3	129129-77400	SHAFT	1	1						
18	3	129129-77410	SPRING, COIL	1	1						
19	3	129129-77420	PINION, STARTER	1	1						
20	3	129129-77430	RING	1	1						
21	2	129129-77260	RETAINER	1	1						
22	2	129129-77270	PINION	1	1						
23	2	129129-77280	HOUSING	1	1						
24	2	129129-77290	FRAME	1	1						
25	2	129129-77300	HOLDER ASSY	1	1						
26	3	X9491730461	SPRING	4	4						
27	2	129129-77310	SWITCH ASSY	1	1						
28	2	129129-77320	BOLT	2	2						
29	2	129129-77330	BOLT	2	2						
30	2	129129-77340	SPRING	1	1						
31	2	129129-77350	O-RING	2	2						
32	2	129129-77362	COVER	1	1						
34	2	129129-77380	CAP	1	1						
35	1	26116-120202	BOLT, M12X 20 PLATED	1	1						
36	1	124550-77030	COVER, TERMINAL	1	1						

Fig.16. GENERATOR

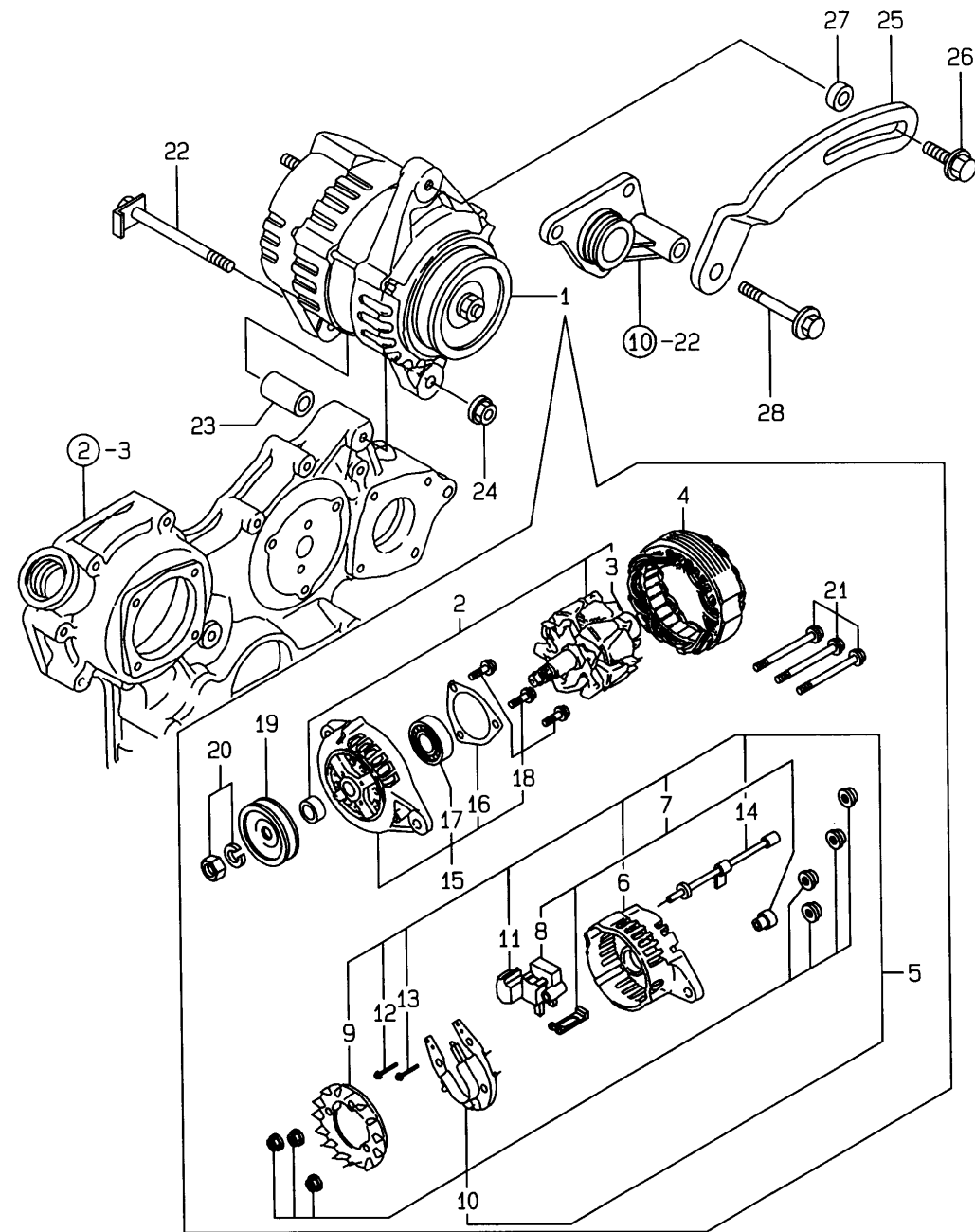
16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1	1						
1-1	1	119626-77210 (B=E49633)	ALTERNATOR, 12V-55A		1						N
2	2	119836-77700 (B=E49633)	ROTOR ASSY	1	1						Z
3	3	119836-77850 (B=E49633)	BALL BEARING	1	1						Z
4	2	119836-77710 (B=E49633)	STATOR ASSY	1	1						Z
5	2	119836-77721 (B=E49633)	COVER ASSY, REAR	1	1						Z
6	3	119836-77730 (B=E49633)	COVER, REAR	1	1						Z
7	3	119836-77741 (B=E49633)	BRUSH ASSY,REGULATOR	1	1						Z
8	4	119836-77750 (B=E49633)	BRUSH ASSY	1	1						Z
9	3	119836-77760 (B=E49633)	GUIDE, FAN SIDE	1	1						Z
10	3	119836-77770 (B=E49633)	DIODE ASSY	1	1						Z
11	3	119836-77780 (B=E49633)	CONDENSER	1	1						Z
12	3	119836-77871 (B=E49633)	BOLT (1)	1	1						Z
13	3	119836-77880 (B=E49633)	BOLT (2)	1	1						Z
14	3	119836-77890 (B=E49633)	WIRE ASSY, LEAD	1	1						Z
15	2	119836-77790 (B=E49633)	COVER ASSY, FRONT	1	1						Z
16	3	119836-77800 (B=E49633)	RETAINER, BEARING	1	1						Z
17	3	119836-77840 (B=E49633)	BALL BEARING	1	1						Z
18	3	119836-77860 (B=E49633)	SCREW KID	1	1						Z
19	2	119836-77810 (B=E49633)	PULLEY	1	1						Z
20	2	119836-77820 (B=E49633)	NUT ASSY, PULLEY	1	1						Z
21	2	119836-77830 (B=E49633)	BOLT, THROUGH	1	1						Z
21A	2	X9490561001 (B=E49633)	NUT		1						W
21B	2	129052-77380 (B=E49633)	ROTOR ASSY		1						W
21C	3	125301-79240 (B=E49633)	BEARING, BALL		1						W
21D	3	119620-79250 (B=E49633)	COVER		1						W

Fig.16. GENERATOR

16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
21E	2	129052-79422	FRAME ASSY (B=E49633)		1						W
21F	3	119620-79200	BEARING, BALL (B=E49633)		1						W
21G	3	119620-79210	PLATE, RETAINER (B=E49633)		1						W
21H	3	119620-79220	SCREW (B=E49633)		4						W
21J	3	119620-79230	STUD (B=E49633)		2						W
21K	2	128401-77440	FRAME (B=E49633)		1						W
21L	2	119620-77461	PULLEY (B=E49633)		1						W
21M	2	119620-77471	NUT (B=E49633)		1						W
21N	2	129052-79260	HOLDER (B=E49633)		1						W
21P	2	129052-79270	HOLDER, BRUSH (B=E49633)		1						W
21Q	2	119620-79290	SCREW (B=E49633)		6						W
21R	2	119620-79300	SCREW (B=E49633)		1						W
21S	2	119620-79310	BOLT (B=E49633)		3						W
21T	2	119620-79320	SCREW (B=E49633)		2						W
21U	2	119620-79330	BOLT (B=E49633)		2						W
21V	2	119620-79340	BUSH, INSULATION (B=E49633)		1						W
21W	2	119620-79350	NUT (B=E49633)		2						W
21X	2	119626-77710	REGULATOR ASSY (B=E49633)		1						W
21Y	2	119626-77450	COVER (B=E49633)		1						W
21Z	2	119620-77490	COLLAR (B=E49633)		1						W
22	1	129136-77251	BOLT, M8X110	1	1						
22-1	1	129795-01900	STUD (B=E49633)		1						N
23	1	119820-77340	PIECE, DISTANCE	1	1						
24	1	26366-080002	NUT, M8	1	1						
24-1	1	26306-080002	NUT, M8 (A=E49633) (B=E49633)	1	1						N
24-2	1	26306-100002	NUT, M10 (B=E49633)		1						N
25	1	129051-77330	ADJUSTER	1	1						
26	1	119810-77340	BOLT, ADJUSTER	1	1						

16. GENERATOR

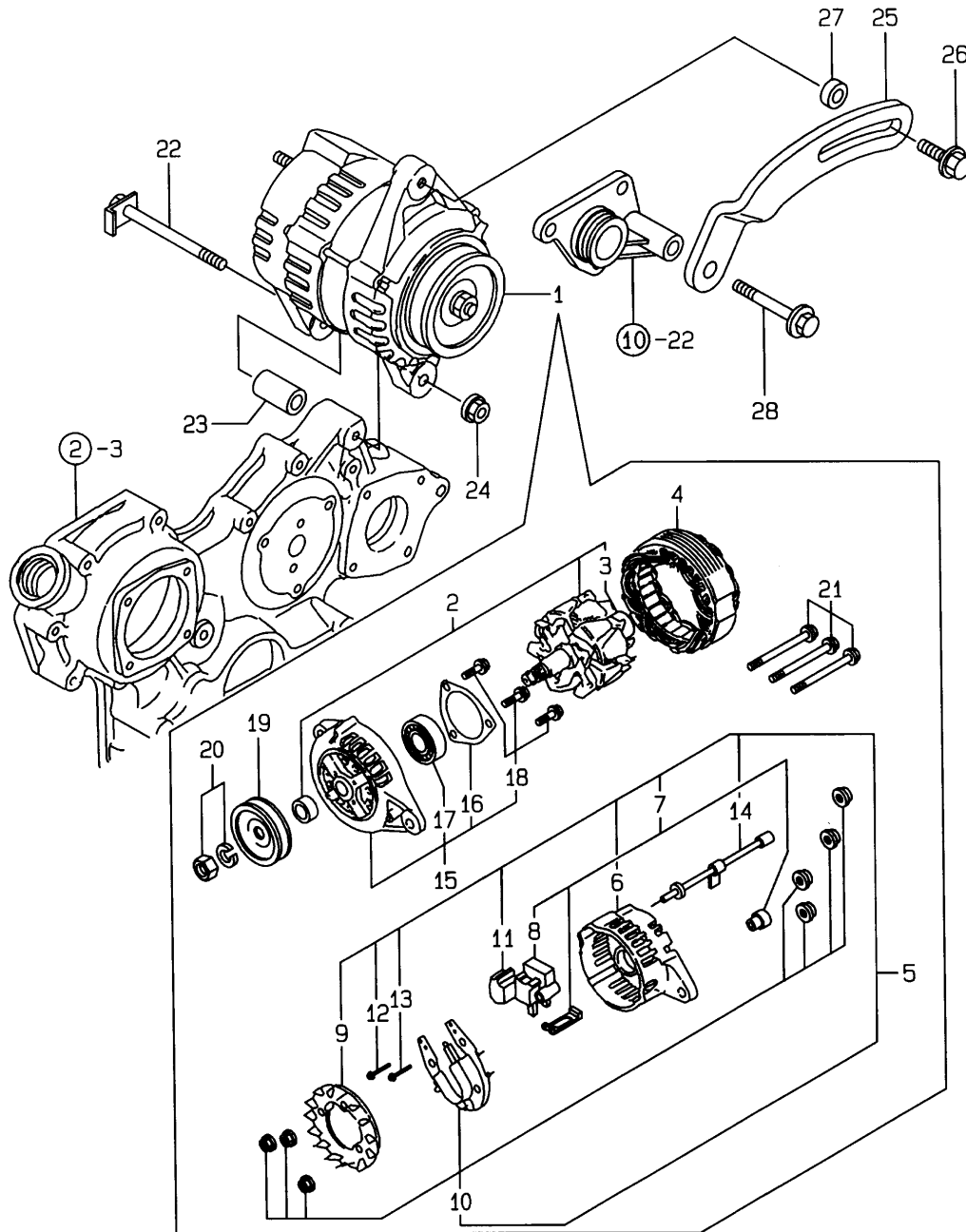
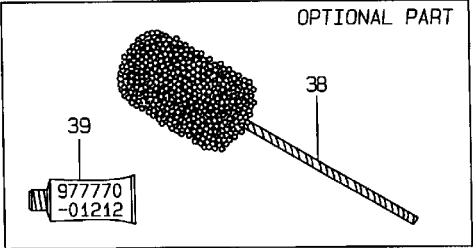
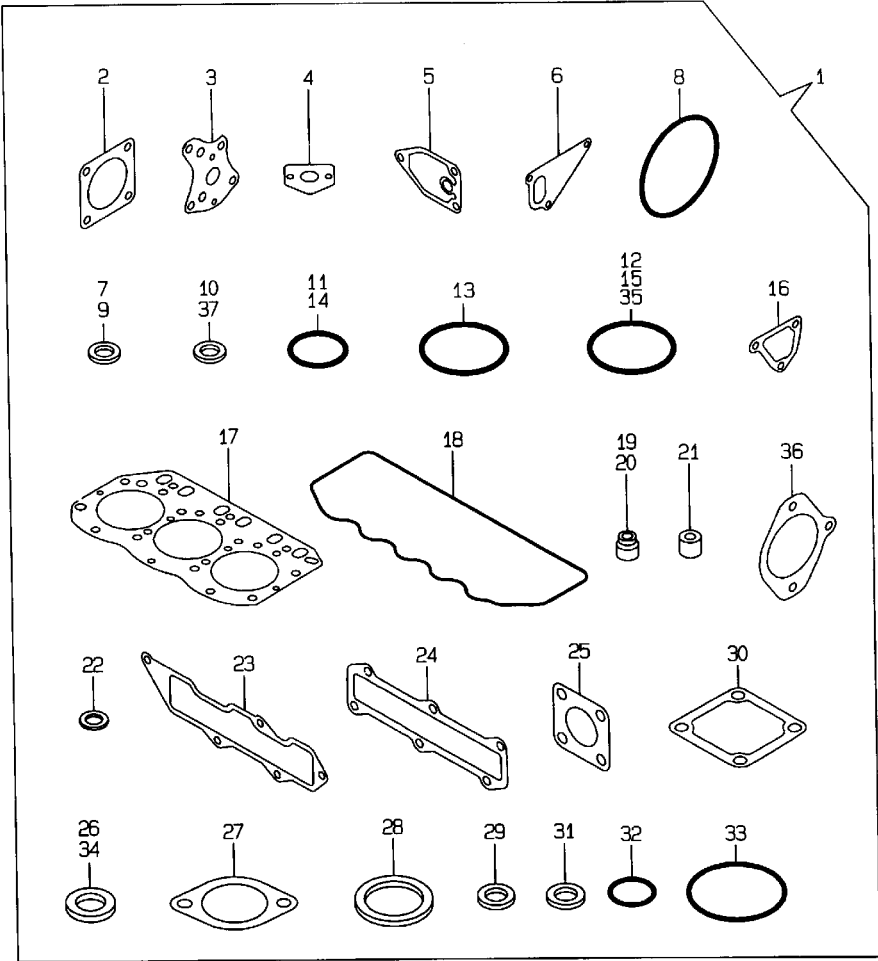
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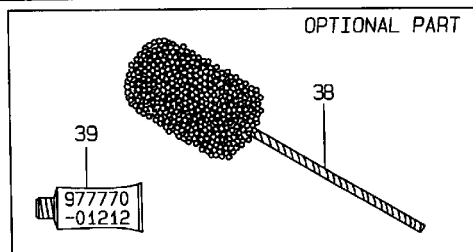
Fig.17. GASKET SET

17.GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729030-92630	GASKET SET	1							1
1-1	1	729030-92631	GASKET SET	1	1					N	1
(A=E19476)											
2	2	124240-01883	GASKET	1							Z
(A=E19476)											
3	2	129150-32020	GASKET, PUMP	1	1						
4	2	129150-35041	GASKET	1	1						
5	2	129150-35111	GASKET	1	1						
6	2	129100-42020	GASKET, WATER PUMP	1							
6-1	2	129486-42021	GASKET, WATER PUMP	1	1						N
(A=E24129)											
7	2	22190-080002	WASHER, SEAL 6	5							
7-1	2	22190-080003	WASHER, SEAL 8	5	5						N
(A=E19476)											
8	2	121850-51960	O-RING	1	1						
9	2	23414-080000	GASKET, 8X1.0	2							
9-1	2	22190-080002	WASHER, SEAL 6	2	2						N
(A=E19476)											
10	2	23414-100000	GASKET, 10X1.0	2							
10-1	2	22190-100002	WASHER, SEAL 10	2	2						N
(A=E25369)											
11	2	24311-000160	O-RING, 1AP16.0	3	3						
12	2	24341-000500	O-RING, 1AS50.0	1	1						
13	2	24341-000240	O-RING, 1AS24.0	1	1						
14	2	24311-000180	O-RING, 1AP18.0	2	2						
15	2	24311-000320	O-RING, 1AP32.0	2	2						
16	2	129100-49840	GASKET	1							
16-1	2	124395-49840	GASKET	1	1						N
(A=E30459)											
17	2	129001-01340	GASKET, HEAD	1	1						
18	2	129150-11310	GASKET, BONNET	1	1						
19	2	121400-11340	SEAL, VALVE STEM	3	3						
20	2	124460-11340	SEAL, VALVE STEM	3	3						
21	2	119625-11870	PROTECTOR, NOZZLE	3	3						
22	2	119625-11880	SEAT, NOZZLE	3	3						
23	2	129001-12110	GASKET, MANIFOLD	1	1						
24	2	129001-13110	GASKET	1	1						
25	2	124701-11911	GASKET, SILENCER	1	1						
26	2	124465-44950	GASKET, 16	1	1						
27	2	129795-49551	GASKET	1	1						
28	2	129150-49811	GASKET, THERMOSTAT	1	1						
29	2	22190-120002	WASHER, SEAL 12	2	2						
30	2	129150-77511	GASKET	1	1						
31	2	23414-120000	GASKET, 12X1.0	2							
31-1	2	22190-120002	WASHER, SEAL 12	2	2						N
(A=E23368)											
32	2	24311-000120	O-RING, 1AP12.0	3	3						
33	2	24321-000300	O-RING, 1AG30.0	1							
33-1	2	129486-42140	O-RING, G30	1	1						N
(A=E23368)											
34	2	22190-160002	WASHER, SEAL 16	2	2						

17. GASKET SET



Remarks
(1) OPTIONAL 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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114250-39450	9	33 -1
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
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119131-18320	6	5
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119600-66720	12	83
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129001-12120	5	2
129001-13100	6	1
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129155-11260	4	25
129155-11270	4	26
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26106-080402	3	15
	6	4
26106-080452	2	19
	7	13
26106-080502	4	37
	5	4
	16	28
26106-080552	2	20

Parts No.	Fig. No.	Ref. No.
26106-080602	10	15
26106-080652	10	31
26106-100452	7	20
26116-050302	11	86
26116-120202	15	35
26206-100202	3	3
26216-060202	4	11
26216-080402	6	6
26226-080182	4	35
26306-080002	16	24 -1
26306-100002	16	24 -2
26366-060002	4	38
26366-080002	2	22
	6	3
	12	81
	16	24
26450-060252	9	15
26450-080282	7	29
26687-120002	12	80
26716-060002	11	87
26716-120002	7	16
	11	89 D
26756-060002	12	73
26776-120002	12	74
27225-100140	1	31
27231-500000	1	10
27241-120000	1	11
27241-300000	1	12
27241-400000	4	12
27310-080001	4	17
729001-01560	1	1
729030-92630	17	1
729030-92631	17	1 -1
729051-51390	11	1
729051-51450	11	1 A
729132-11521	4	41 -2
729209-53100	13	1 A
729402-11650	4	31
729402-23100	8	23
729503-53100	13	1
977770-01212	2	26
	3	21
	17	39
X0280210230	15	11
X0283060061	15	2
X0283270140	15	12
X9490561001	16	21 A
X9490561370	15	4
X9491200240	15	5
X9491703371	15	13

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X9491730461	15	26