

0CV10-M82900EN

P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model 3TNE88—EWA engine manufactured since March, 2002.
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)

I R

3 5

1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1		1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N 1
		(A=E00185)	(B=E00200)							
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9		
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K
		(A=E00156)	(B=E00156)	(C=E00156)	(D=E00156)	(E=E00156)				
4	2	129470-51040	CAMSHAFT	1	1	1	1	1		
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2		
6	2	129470-51060	RETAINER	1	1	1	1	1		

Remarks

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

① Ref. No.

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

(Ex.) Illustration No.

List Ref No.

1

1

(Before change)

1-1

(After change)

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

② Lev. (Level)

Level indication

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

1 ----- Main parts (Assembly parts)

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

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

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

③ Interchangeability Symbol

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

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$	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.

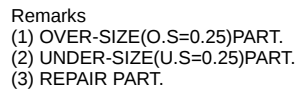
⑤ Remarks

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.

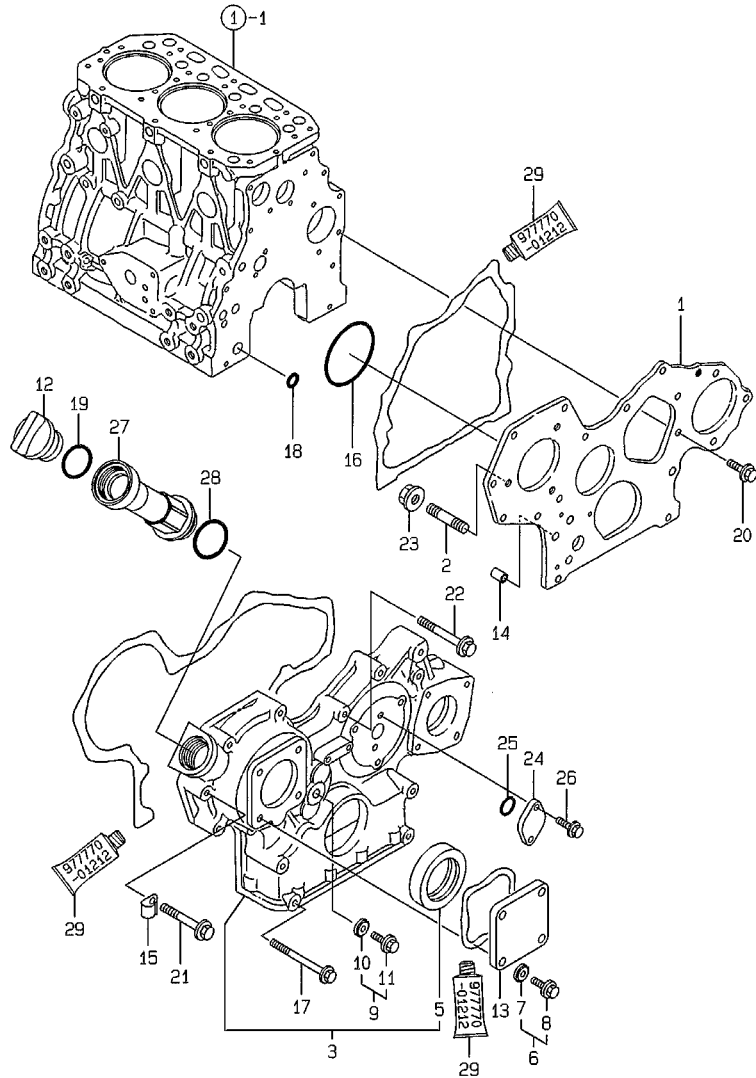
Contents

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE88-EWA			
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		



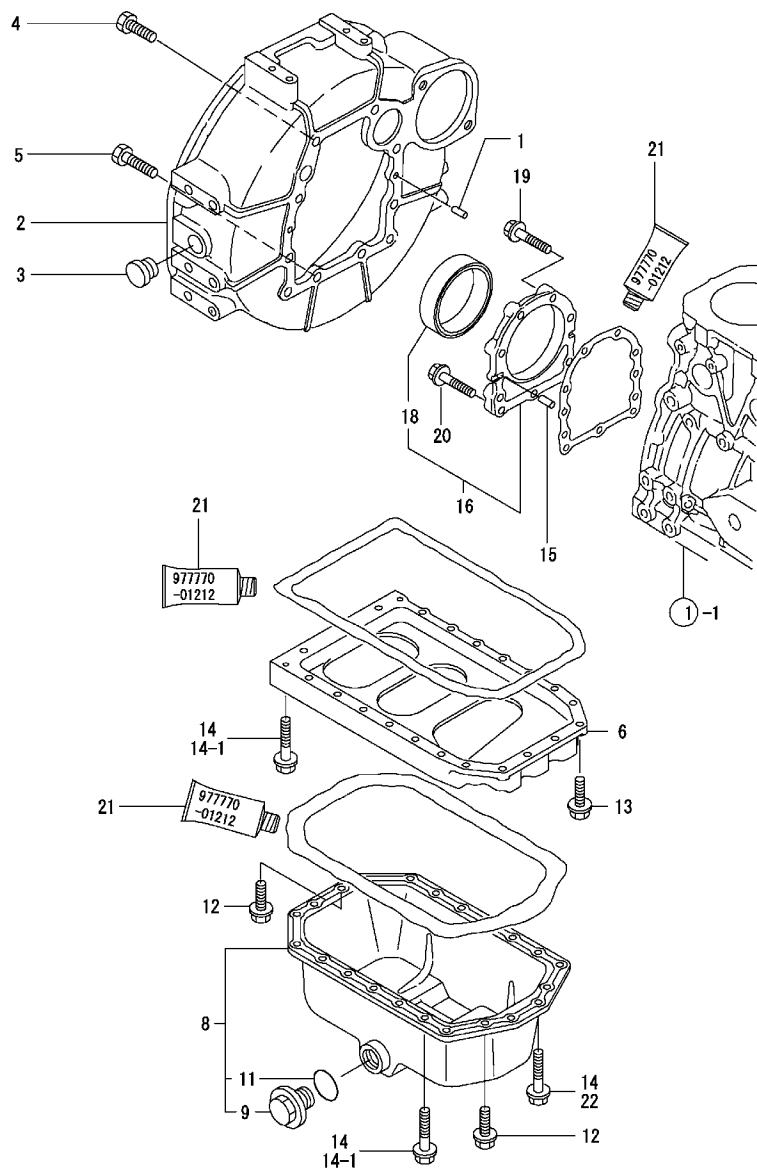
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.2. GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171353-01520	FLANGE, GEAR CASE	1							
2	1	121450-01560	STUD, M8X22	3							
3	1	171353-01580	CASE ASSY, GEAR	1							
5	2	129795-01800	SEAL, OIL	1							
6	1	124550-01590	BOLT, M8X16	4							
7	2	22190-080003	WASHER, SEAL 8	4							
8	2	26106-080162	BOLT, M8X 16 PLATED	4							
9	1	124550-01590	BOLT, M8X16	1							
10	2	22190-080003	WASHER, SEAL 8	1							
11	2	26106-080162	BOLT, M8X 16 PLATED	1							
12	1	124160-01751	COVER, FILLER	1							
13	1	124240-01871	COVER	1							
14	1	129795-01950	PIPE, KNOCK L=18	2							
15	1	129150-03100	RETAINER, PIPE	1							
16	1	121850-51960	O-RING	1							
17	1	129001-91841	BOLT, M8X85	4							
18	1	119609-32040	O-RING, P16	2							
19	1	24311-000320	O-RING, 1AP32.0	1							
20	1	26106-080162	BOLT, M8X 16 PLATED	3							
21	1	26106-080452	BOLT, M8X 45 PLATED	6							
22	1	26106-080552	BOLT, M8X 55 PLATED	3							
23	1	26306-080002	NUT, M8	3							
24	1	121023-01550	COVER	1							
25	1	24341-000240	O-RING, 1AS24.0	1							
26	1	26106-060162	BOLT, M6X 16 PLATED	2							
27	1	121027-11743	PIPE	1							
28	1	24321-000350	O-RING, 1AG35.0	1							
29	1	977770-01212	GASKET, LIQUID	1							1

Remarks
(1) OPTIONAL PART.

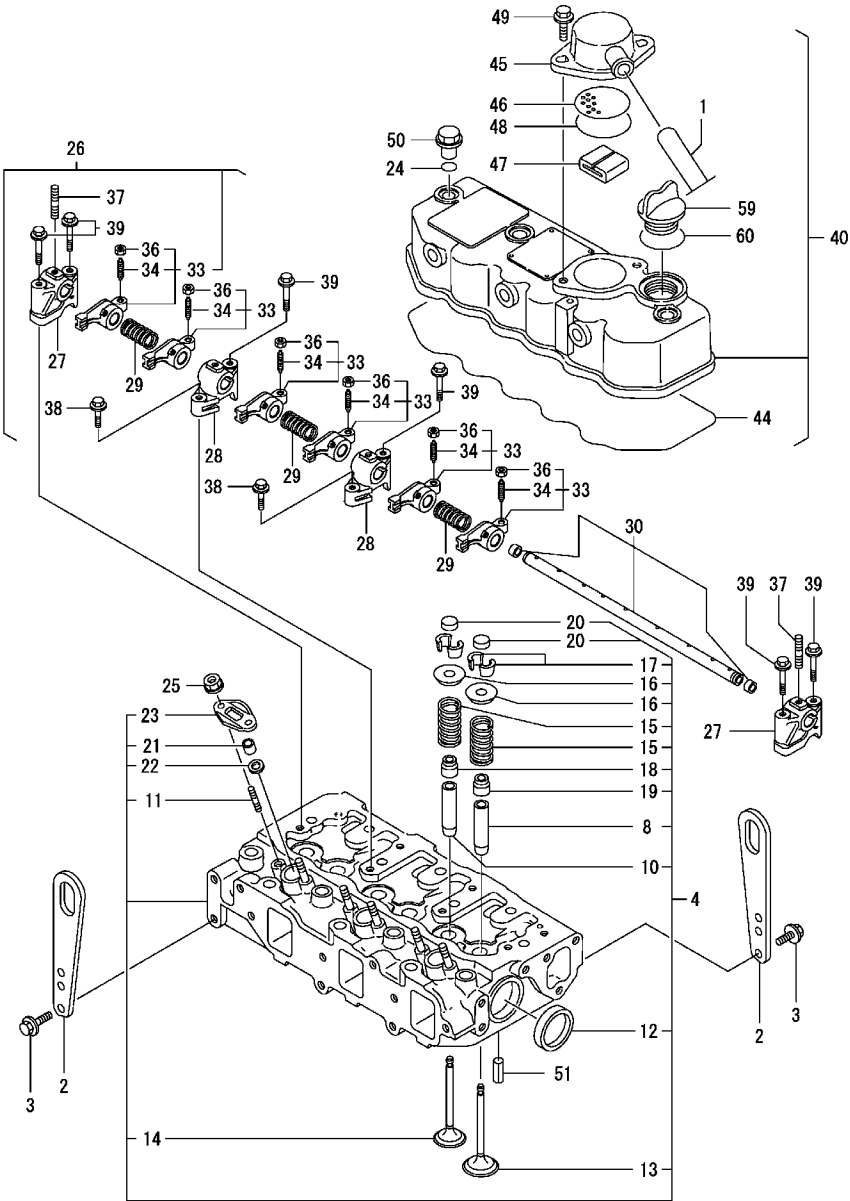


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	129100-01730	SPACER, OIL SUMP	1							
8	1	129100-01760	SUMP ASSY, OIL	1							
9	2	171301-01640	PLUG, 22	1							
11	2	24341-000250	O-RING, 1AS25.0	1							
12	1	26106-080162	BOLT, M8X 16 PLATED	4							
13	1	26106-080252	BOLT, M8X 25 PLATED	2							
14	1	26106-080452	BOLT, M8X 45 PLATED	20							
14-1	1	26106-080452	BOLT, M8X 45 PLATED	16							K
	(A=FROM 1ST)										
15	1	129100-01580	PIN, M8X16	2							
16	1	129100-01640	CASE ASSY, OIL SEAL	1							
18	2	129795-01780	SEAL, OIL	1							
19	1	129486-01670	BOLT, M8X30	6							
20	1	26106-080352	BOLT, M8X 35 PLATED	3							
21	1	977770-01212	GASKET, LIQUID	1							1
22	1	26106-080502	BOLT, M8X 50 PLATED	4							W
	(A=FROM 1ST)										

Remarks
(1) OPTIONAL PART.

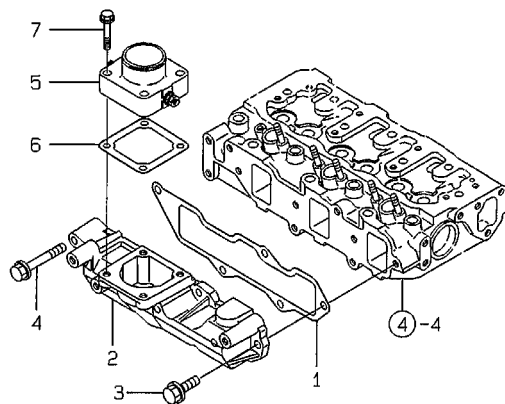
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.4. CYLINDER HEAD & BONNET

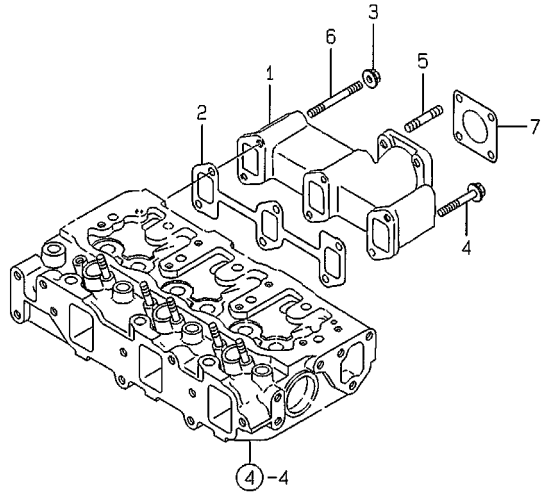


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171350-03090	PIPE , BREATHER 900	1							
2	1	129900-07900	LIFTER	2							
3	1	26106-080162	BOLT, M8X 16 PLATED	4							
4	1	129051-11700	HEAD ASSY, CYLINDER	1							
8	2	120130-11860	GUIDE, VALVE	3							1
10	2	129150-11810	GUIDE, VALVE	3							1
11	2	26216-060202	STUD, M6X 20	6							
12	2	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	119625-11872	PROTECTOR, NOZZLE	3							
22	2	119625-11880	SEAT, NOZZLE	3							
23	2	119625-11900	RETAINER, NOZZLE	3							
24	1	24311-000120	O-RING, 1AP12.0	3							
25	1	26366-060002	NUT, M6	6							
26	1	129155-11241	SHAFT ASSY, ROCKER	1							
27	2	129155-11260	SUPPORT, ROCKER ARM	2							
28	2	129155-11270	SUPPORT, ROCKER ARM	2							
29	2	129150-11280	SPRING	3							
30	2	129150-11290	SHAFT, ROCKER ARM	1							
33	2	729402-11650	ARM ASSY, ROCKER	6							
34	3	129150-11230	SCREW, VALVE ADJUST	6							
36	3	129150-11750	NUT, M8	6							
37	2	119802-11280	STUD	3							
38	1	26106-080252	BOLT, M8X 25 PLATED	2							
39	1	26106-080502	BOLT, M8X 50 PLATED	6							
40	1	729132-11521	BONNET ASSY, HEAD	1							
44	2	129150-11310	GASKET, BONNET	1							
45	2	129150-03020	COVER, BREATHER	1							
46	2	129150-03080	PLATE, BAFFLE	1							
47	2	129150-03070	BAFFLE, BREATHER	1							
48	2	24341-000500	O-RING, 1AS50.0	1							
49	2	26106-080162	BOLT, M8X 16 PLATED	2							
50	1	124160-11360	KNOB	3							
51	1	22351-060012	PIN, SPRING 6.0X12	2							
59	1	124160-01751	COVER, FILLER	1							
60	1	24311-000320	O-RING, 1AP32.0	1							

Remarks
(1) REPAIR PART.



				(A)=3TNE88-EWA					(D)=							
				(B)=					(E)=							
				(C)=					(F)=							
No.	Lev.	Parts No.	Description						Q'ty						I	R
					(A)	(B)	(C)	(D)	(E)	(F)						
1	1	129001-12110	GASKET, MANIFOLD		1											
2	1	129001-12120	MANIFOLD, AIR INTAKE		1											
3	1	26106-080202	BOLT, M8X 20 PLATED		4											
4	1	26106-080502	BOLT, M8X 50 PLATED		1											
5	1	129120-77501	HEATER		1											
6	1	129150-77511	GASKET		1											
7	1	26106-080352	BOLT, M8X 35 PLATED		4											



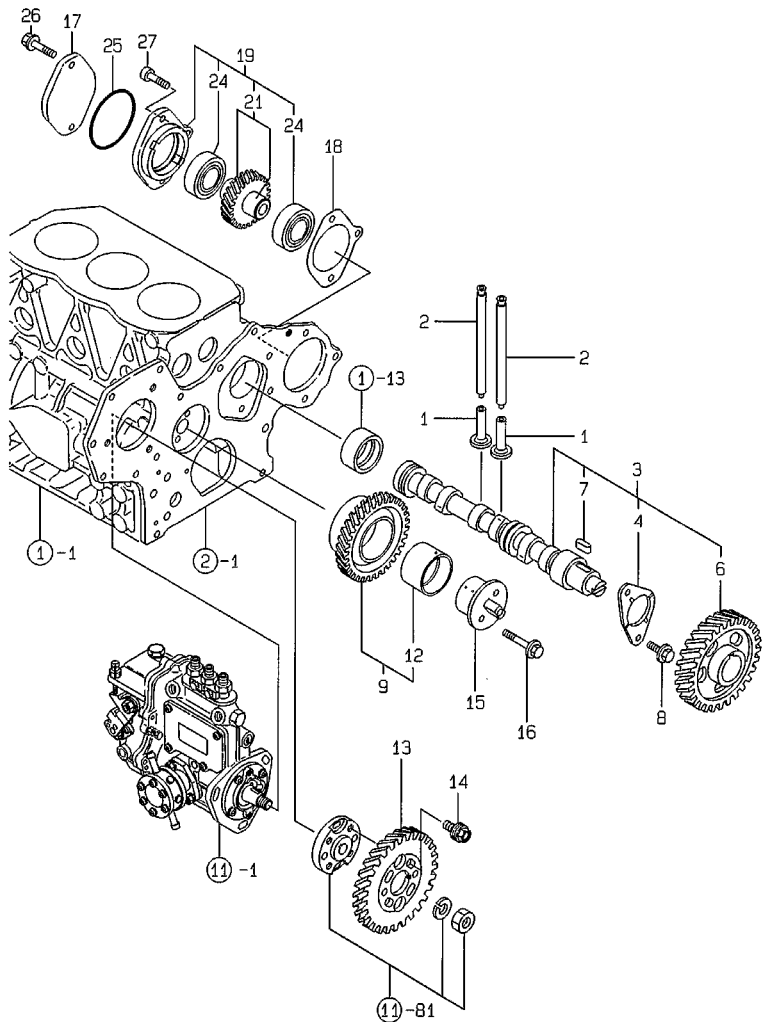
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-13110	MANIFOLD, EXHAUST	1							
2	1	129150-13110	GASKET	1							
3	1	26306-080002	NUT, M8	2							
4	1	26106-080802	BOLT, M8X 80 PLATED	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26216-080802	STUD, M8X 80	2							
7	1	124701-11911	GASKET, SILENCER	1							

Fig.7. CAMSHAFT & DRIVING GEAR

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

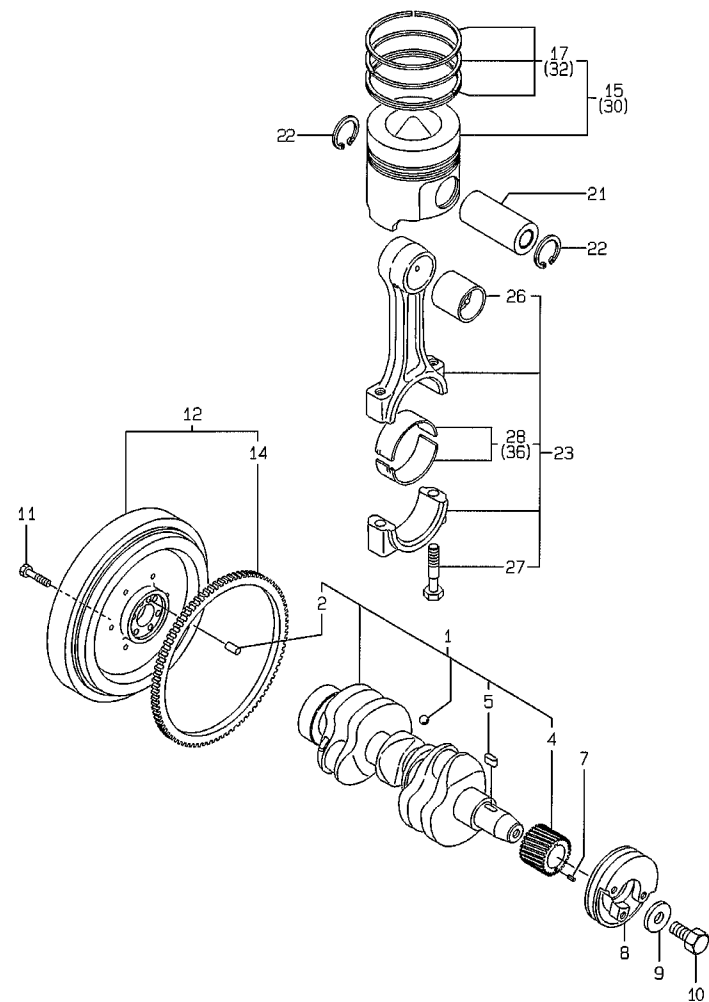
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH L=178	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY, 7X 14	1							
8	1	26106-080142	BOLT, M8X 14 PLATED	2							
9	1	129150-25101	GEAR ASSY, IDLE	1							
12	2	129150-25920	BUSH, IDLE GEAR	1							1
13	1	129150-25931	GEAR, PUMP	1							
14	1	129150-25301	BOLT	4							
15	1	129100-25061	SHAFT, IDLE	1							
16	1	26106-080452	BOLT, M8X 45 PLATED	2							
17	1	121023-26070	COVER	1							
18	1	171353-26081	GASKET	1							
19	1	129484-26200	DRIVE ASSY, PUMP	1							
21	2	129484-26210	GEAR ASSY	1							
24	2	24105-060064	BEARING, BALL 6006Z	2							
25	1	24321-000850	O-RING, 1AG85.0	1							
26	1	26106-100452	BOLT, M10X 45 PLATED	2							
27	1	26450-080282	BOLT, M8X 28	1							



Remarks
(1) REPAIR PART.

Fig.8. CRANKSHAFT & PISTON

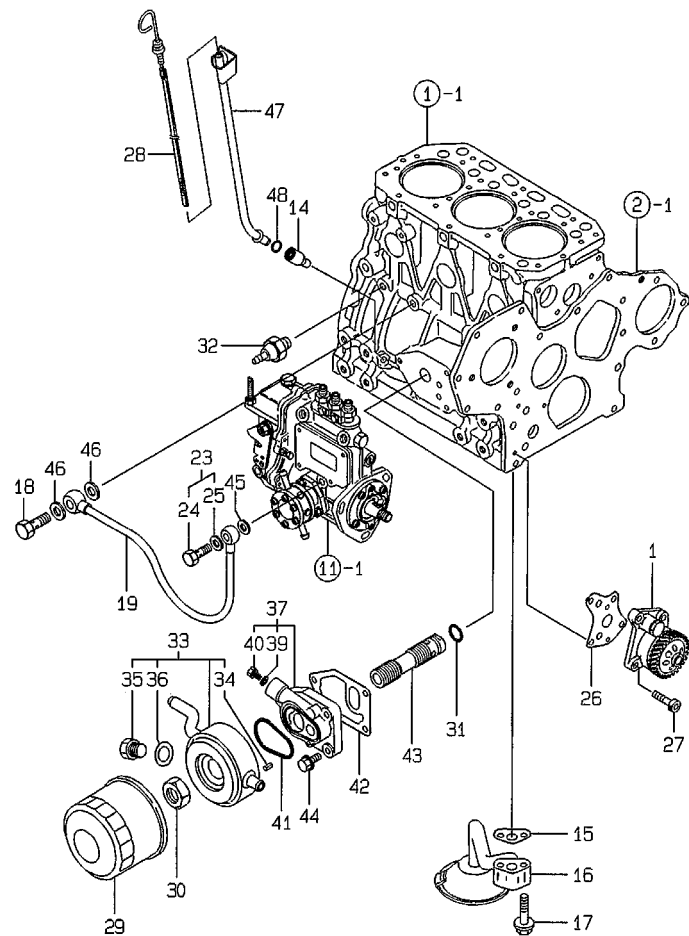


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-21100	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, M8X16	1							
4	2	129150-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	1	22351-040010	PIN, SPRING 4.0X10	1							
8	1	171340-21650	V-PULLEY	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171340-21580	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

Remarks

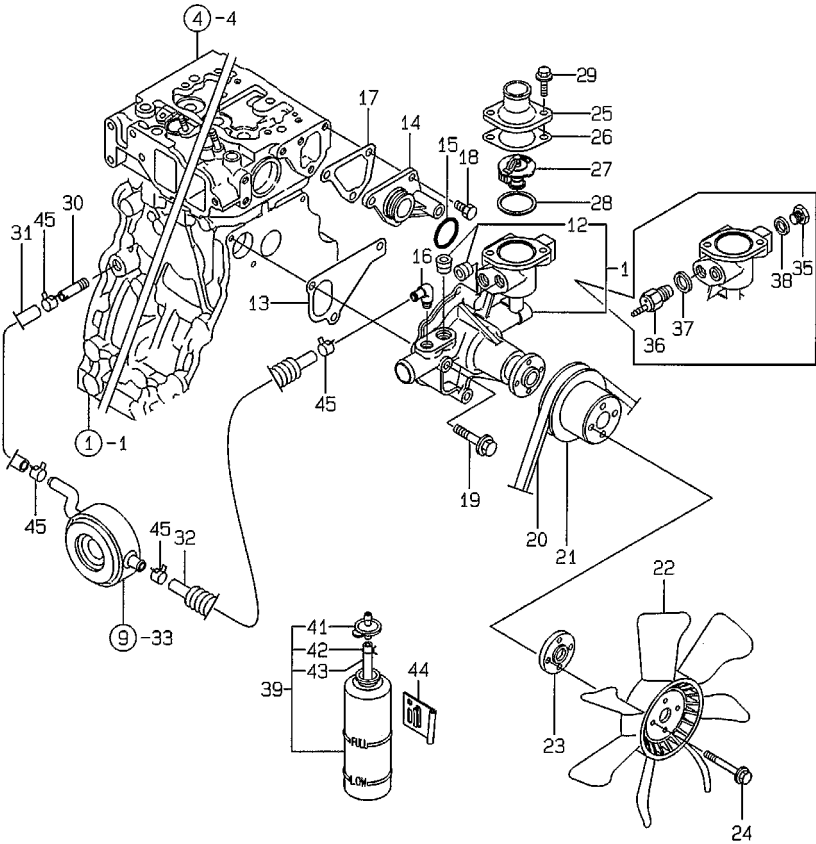
- (1) REPAIR PART.
(2) OVER-SIZE(O.S=0.25)PART.
(3) UNDER-SIZE(U.S=0.25)PART.

Fig.9. LUB.OIL SYSTEM



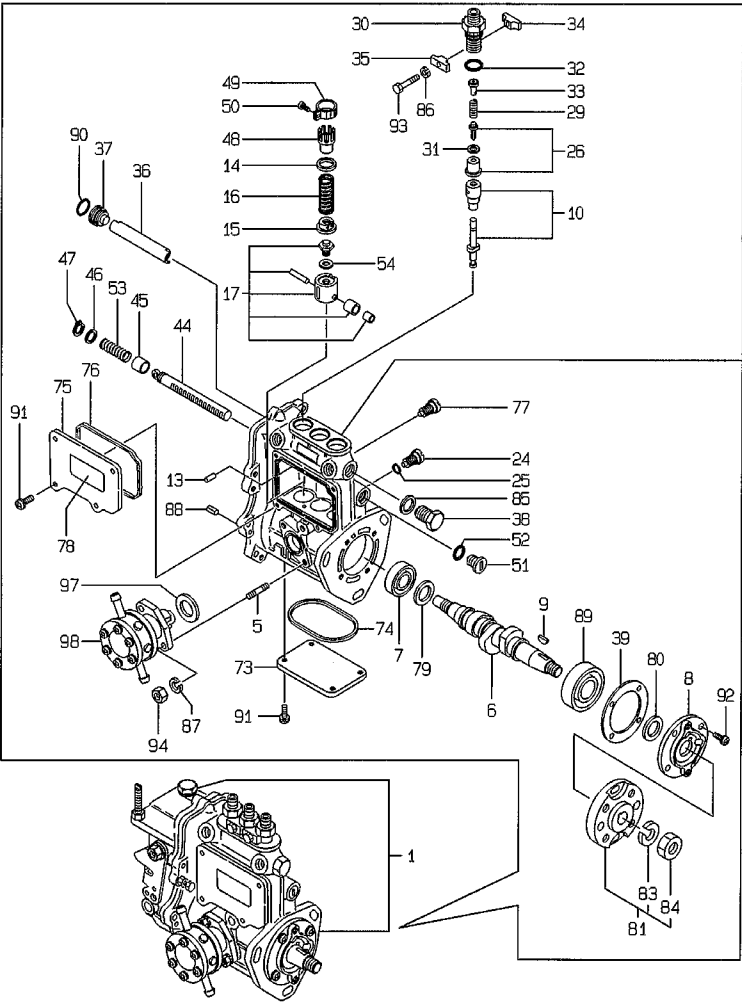
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	119260-34810	GUIDE, DIPSTICK	1							
15	1	129150-35041	GASKET	1							
16	1	129100-35301	PIPE ASSY, OIL INLET	1							
17	1	26106-080352	BOLT, M8X 35 PLATED	2							
18	1	124160-39140	BOLT, PIPE JOINT M10	1							
19	1	129150-39450	PIPE ASSY, OIL	1							
23	1	124550-59830	BOLT ASSY, JOINT M8	1							
24	2	124550-59820	BOLT, PIPE JOINT M8	1							
25	2	22190-080002	WASHER, SEAL 6	1							
26	1	129150-32020	GASKET, PUMP	1							
27	1	26450-060252	BOLT, M6X 25	4							
28	1	129436-34800	DIPSTICK, OIL	1							
29	1	129150-35151	FILTER, D80XL80	1							
30	1	129150-35350	NUT	1							
31	1	24311-000160	O-RING, 1AP16.0	1							
32	1	114250-39450	SWITCH, 0.5KG	1							
33	1	129012-33000	COOLER ASSY, OIL	1							
34	2	129120-33040	PIN	2							
35	2	129120-33051	PLUG, DRAIN	1							
36	2	129120-33060	GASKET	1							
37	1	129120-35001	BRACKET ASSY	1							
39	2	23414-100000	GASKET, 10X1.0	1							
40	2	23881-100002	PLUG, 10	1							
41	1	129120-35110	GASKET	1							
42	1	129120-35121	GASKET	1							
43	1	129407-35300	BOLT, FILTER	1							
44	1	26106-080252	BOLT, M8X 25 PLATED	3							
45	1	22190-080002	WASHER, SEAL 6	1							
46	1	22190-100002	WASHER, SEAL 10	2							
47	1	129136-34820	GUIDE, DIPSTICK	1							
48	1	24311-240100	O-RING, 1AP10A	1							

Fig.10. COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-42003	PUMP ASSY, WATER	1							
12	2	23876-030000	PLUG, R03	2							
13	1	129486-42021	GASKET, WATER PUMP	1							
14	1	129001-42040	JOINT	1							
15	1	129486-42140	O-RING, G30	1							
16	1	129103-49301	ELBOW, PT1/4	1							
17	1	124395-49840	GASKET	1							
18	1	26106-080162	BOLT, M8X 16 PLATED	3							
19	1	26106-080602	BOLT, M8X 60 PLATED	3							
20	1	25132-003600	V-BELT, A36	1							
21	1	129155-42350	V-PULLEY	1							
22	1	129120-44741	FAN, COOLING 360	1							
23	1	124574-44761	SPACER, FAN	1							
24	1	26014-060252	BOLT, M6X 25	4							
25	1	129350-49530	COVER, THERMOSTAT	1							
26	1	129795-49551	GASKET	1							
27	1	129155-49800	THERMOSTAT, 71	1							
28	1	129150-49811	GASKET, THERMOSTAT	1							
29	1	26106-080222	BOLT, M8X 22 PLATED	2							
30	1	129122-44480	JOINT	1							
31	1	129012-49030	HOSE, WATER	1							
32	1	119265-49060	PIPE ASSY, WATER	1							
35	1	121450-42450	PLUG, M16	1							
36	1	121250-44901	SWITCH, 110	1							
37	1	124465-44950	GASKET, 16	1							
38	1	124465-44950	GASKET, 16	1							
39	1	124450-44510	TANK ASSY, SUB	1							
41	2	124450-44530	CAP	1							
42	2	124450-44560	RETAINER	1							
43	2	23061-070230	PIPE, 7X 230	1							
44	1	121256-44600	BRACKET, SUB TANK	1							
45	1	23000-022000	CLAMP, 22	4							

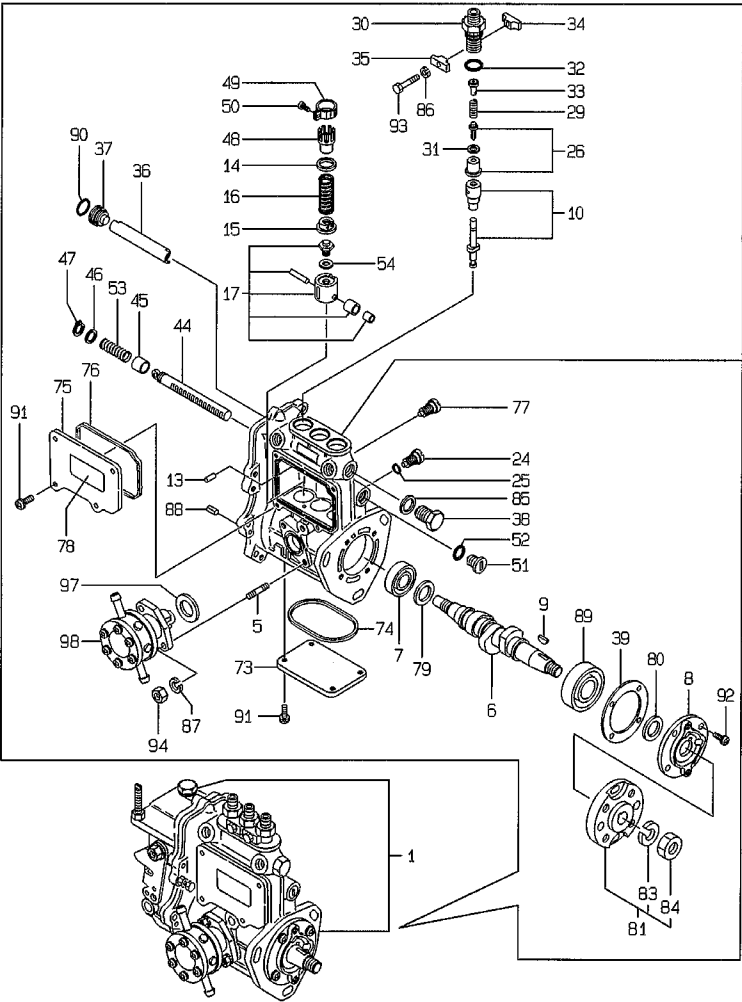
Fig.11. FUEL INJECTION PUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729051-51450	PUMP ASSY, INJECTION	1							1
5	2	129155-51020	STUD	2							
6	2	129171-51040	CAMSHAFT	1							
7	2	129155-51050	BEARING, 17BM001D	1							
8	2	129208-51060	SUPPORT	1							
9	2	122710-51090	KEY	1							
10	2	129506-51100	PLUNGER ASSY	3							
13	2	129155-51140	PIN	3							
14	2	174307-51170	RETAINER, SPRING A	3							
15	2	129155-51180	RETAINER, SPRING	3							
16	2	124950-51190	SPRING, PLUNGER	3							
17	2	129155-51200	TAPPET ASSY	3							
24	2	129155-51270	STOPPER, TAPPET	3							
25	2	129155-51280	O-RING, S6	3							
26	2	129209-51300	VALVE ASSY, DELIVERY	3							
29	2	129573-51330	SPRING, DELIVERY	3							
30	2	129573-51340	RETAINER	3							
31	2	124550-51350	GASKET, DELIVERY	3							
32	2	124550-51370	O-RING	3							
33	2	129573-51370	STOPPER, VALVE	3							
34	2	129155-51380	STOPPER	2							
35	2	129155-51390	STOPPER	2							
36	2	129155-51400	DEFLECTOR	1							
37	2	129155-51410	BOLT	1							
38	2	129155-51420	PLUG, M16	1							
39	2	129155-51450	SHIM SET, ADJUSTING	1							
44	2	129155-51500	RACK, CONTROL	1							
45	2	129155-51521	BUSH, RACK	1							
46	2	129155-51530	SPACER	1							
47	2	129155-51540	CIRCLIP	1							
48	2	129155-51550	PINION, CONTROL	3							
49	2	129100-51560	PINION	3							
50	2	129100-51570	SCREW	3							
51	2	129155-51570	PLUG, M12	1							
52	2	129155-51580	O-RING	1							
53	2	129155-51591	SPRING, RACK	1							
54	2	129155-51600	SHIM SET, ADJUSTING	3							
73	2	129155-51701	COVER	1							
74	2	129155-51711	GASKET	1							
75	2	129155-51751	COVER	1							
76	2	129155-51760	GASKET	1							
77	2	129155-51790	STOOPER, RACK	1							
78	2	129156-51910	LABEL, CAUTION	1							
79	2	129155-51930	SPACER, T=3.25	1							
80	2	129155-51940	SPACER, T=1.5	1							
81	2	129208-54500	FLANGE ASSY	1							
83	3	22217-120000	WASHER, SPRING 12	1							
84	3	26716-120002	NUT, M12	1							
85	2	22190-160002	WASHER, SEAL 16	1							
86	2	22217-050000	WASHER, SPRING 5	2							
87	2	22217-060000	WASHER, SPRING 6	2							

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

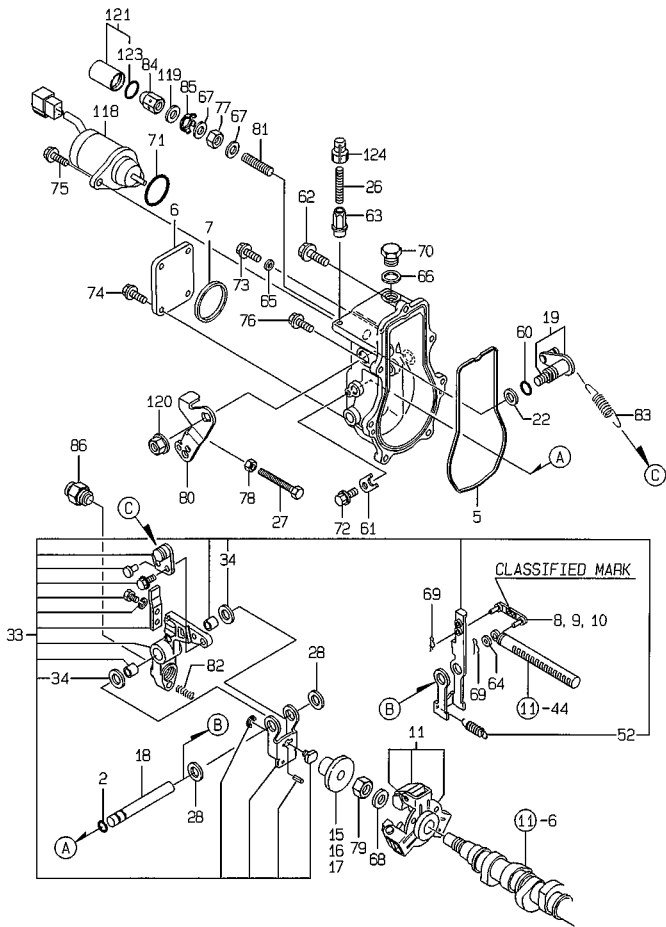
Fig.11. FUEL INJECTION PUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
88	2	22351-050010	PIN, SPRING 5.0X10	2							
89	2	24101-063034	BEARING, BALL 6303	1							
90	2	24341-000160	O-RING, 1AS16.0	1							
91	2	26022-050122	SCREW, M5X12	8							
92	2	26022-060162	SCREW, M6X16	4							
93	2	26116-050302	BOLT, M5X 30 PLATED	2							
94	2	26716-060002	NUT, M6	2							
97	2	129155-52050	GASKET	1							
98	2	129100-52100	PUMP ASSY, FUEL FEED	1							

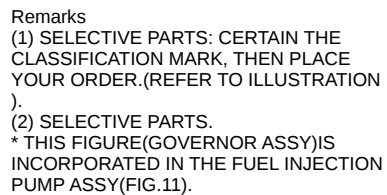
Remarks
(1) GOVERNOR(FIG.NO.12)IS INCORPORATED IN THIS FUEL INJECTION PUMP.
(REF.NO.1).

Fig.12. GOVERNOR



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-51280	O-RING, S6	1							
5	2	129052-61050	GASKET	1							
6	2	129052-61060	COVER, GOVERNOR CASE	1							
7	2	129052-61070	GASKET	1							
8	2	129155-61120	LINK, L=30 MARK 0	1							1
9	2	129155-61130	LINK, L=31 MARK 1	1							1
10	2	129155-61140	LINK, L=30.5 MARK 05	1							1
11	2	129486-61201	WEIGHT ASSY,GOVERNOR	1							
15	2	129155-61341	SLEEVE	1							2
16	2	129155-61350	SLEEVE, L=24.9	1							2
17	2	129155-61360	SLEEVE, L=25.2	1							2
18	2	129052-61390	SHAFT	1							
19	2	129100-61400	SHAFT ASSY	1							
22	2	129155-61430	SPACER	1							
26	2	129155-61450	BOLT, LIMITER	1							
27	2	129155-61460	BOLT, IDLE	1							
28	2	129155-61480	SPACER ASSY	2							
33	2	119908-61501	LEVER ASSY, GOVERNOR	1							
34	3	174307-51700	SHIM SET	2							
52	3	129486-61540	SPRING, SET	1							
60	2	129155-61830	O-RING, S10	1							
61	2	119660-61901	RETAINER, SHAFT	1							
62	2	129155-61950	BOLT	1							
63	2	129209-61370	NUT, M6	1							
64	2	22117-040000	WASHER, 4	1							
65	2	22190-060003	SEAL WASER 6	1							
66	2	22190-100002	WASHER, SEAL 10	1							
67	2	22190-120002	WASHER, SEAL 12	2							
68	2	22287-120000	WASHER, 12	1							
69	2	22372-040000	PIN, SNAP 4	2							
70	2	23887-100002	PLUG, 10	1							
71	2	24341-000280	O-RING, 1AS28.0	1							
71-1	2	158552-61900	O-RING	1							N
(A)=EXXXXX											
72	2	26106-060102	BOLT, M6X 10 PLATED	1							
73	2	26106-060102	BOLT, M6X 10 PLATED	1							
74	2	26106-060102	BOLT, M6X 10 PLATED	4							
75	2	26106-060142	BOLT, M6X 14 PLATED	2							
76	2	26106-060202	BOLT, M6X 20 PLATED	6							
77	2	26736-120002	NUT, M12	1							
78	2	26756-060002	NUT, LOCK M6	1							
79	2	26776-120002	NUT, LOCK M12	1							
80	2	129100-61440	LEVER, CONTROL	1							
81	2	120323-61470	BOLT, CONTROL	1							
82	2	129100-61650	SPRING, CONTROLLER	1							
83	2	171353-61710	SPRING, GOVERNOR	1							
84	2	129209-61930	NUT, CAP	1							
85	2	129209-61970	PLATE	1							
86	2	119600-66720	ANGLEICH ASSY	1							
118	2	119653-77950	SOLENOID, STOP	1							
119	2	23414-120016	GASKET, 12X1.0	1							

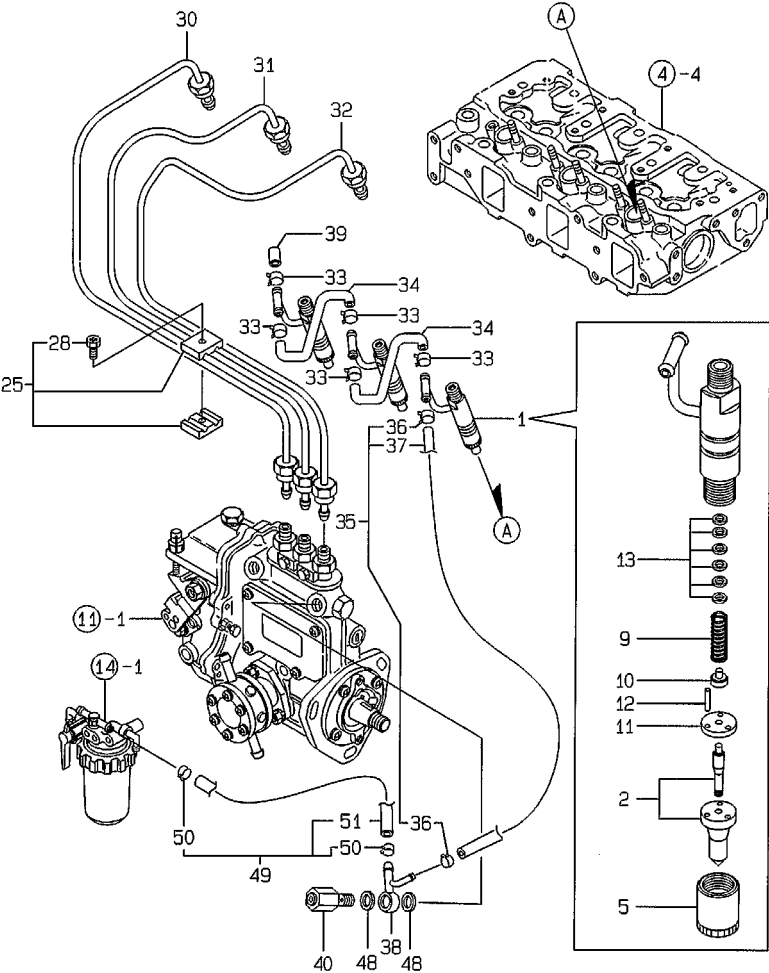


N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

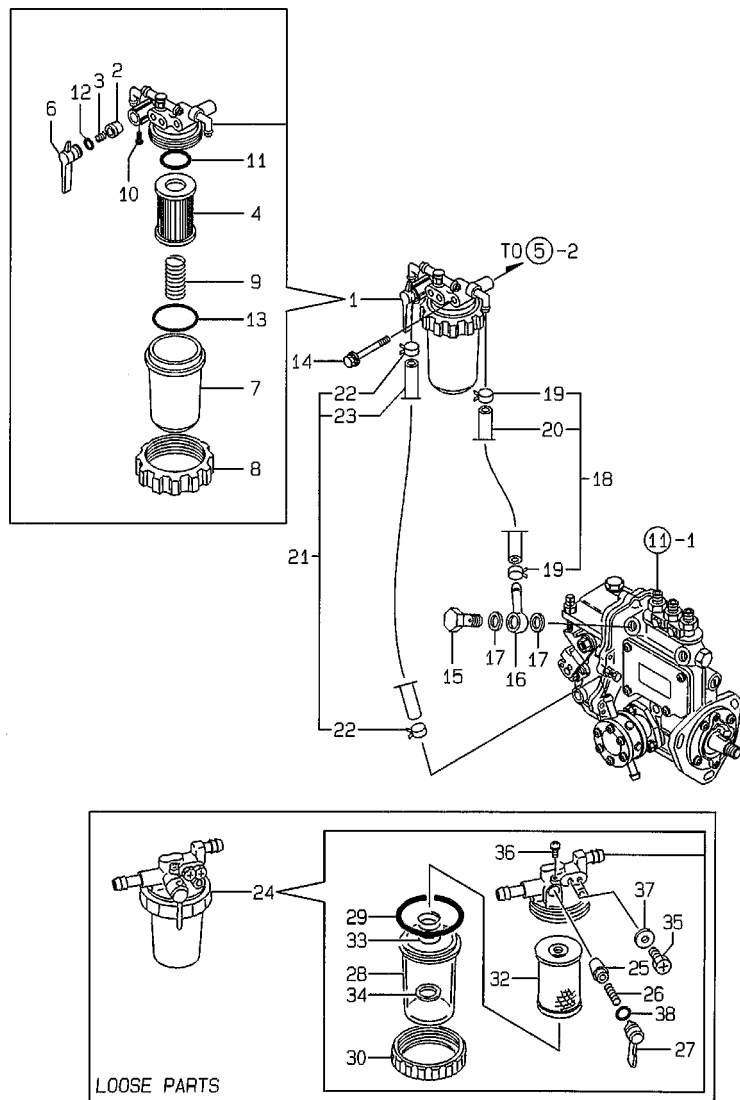
Fig.13. FUEL INJECTION VALVE

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

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



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	119305-59120	RETAINER, PIPE	2							
28	2	129150-59131	BOLT, M4X14	2							
30	1	129052-59810	PIPE ASSY, INJECTION	1							
31	1	129052-59820	PIPE ASSY, INJECTION	1							
32	1	129052-59830	PIPE ASSY, INJECTION	1							
33	1	124066-59100	CLIP, HOSE 8	5							
34	1	121250-59550	PIPE, FUEL D8X120	2							
35	1	119840-59500	PIPE ASSY, RETURN	1							
36	2	124066-59100	CLIP, HOSE 8	2							
37	2	119840-59560	PIPE, FUEL RETURN	1							
38	1	119840-59570	JOINT	1							
39	1	129150-59580	CAP	1							
40	1	129100-59951	VALVE ASSY, CHECK	1							
48	1	22190-120002	WASHER, SEAL 12	2							
49	1	129210-59130	PIPE ASSY, FUEL	1							
50	2	124766-59050	CLIP, HOSE 12	2							
51	2	105025-59750	PIPE, FUEL	1							



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129052-55620	FILTER ASSY, FUEL	1					
2	2	104200-55321	VALVE, TAPER	1					
3	2	104200-55330	SPRING, VALVE	1					
4	2	129100-55650	ELEMENT	1					
6	2	129100-55670	LEVER	1					
7	2	129100-55680	CUP, STRAINER	1					
8	2	129100-55690	RING, RETAINING	1					
9	2	129100-55700	SPRING	1					
10	2	104200-55750	SCREW, M4	1					
11	2	24311-000160	O-RING, 1AP16.0	1					
12	2	24311-240100	O-RING, 1AP10A	1					
13	2	24321-000650	O-RING, 1AG65.0	1					
14	1	26014-080702	BOLT, M8X 70	1					
15	1	103854-39140	BOLT, PIPE JOINT	1					
16	1	101304-59020	JOINT, PIPE 12	1					
17	1	22190-120002	WASHER, SEAL 12	2					
18	1	129210-59040	PIPE ASSY, FUEL	1					
19	2	124766-59050	CLIP, HOSE 12	2					
20	2	129555-59510	PIPE, D13/7.5X180	1					
21	1	129210-59130	PIPE ASSY, FUEL	1					
22	2	124766-59050	CLIP, HOSE 12	2					
23	2	105025-59750	PIPE, FUEL	1					
24	1	121850-55800	SEPARATOR ASSY,WATER	1					
25	2	104200-55321	VALVE, TAPER	1					
26	2	104200-55330	SPRING, VALVE	1					
27	2	104200-55341	HANDLE	1					
28	2	121254-55510	COVER	1					
29	2	102103-55520	O-RING	1					
30	2	110250-55610	RING, RETAINING	1					
32	2	121850-55710	SCREEN	1					
33	2	121257-55720	SPRING	1					
34	2	121257-55731	FLOAT	1					
35	2	101720-55750	PLUG, 6	2					
36	2	104200-55750	SCREW, M4	1					
37	2	23418-060000	GASKET, 6X1.0	2					
38	2	24311-240100	O-RING, 1AP10A	1					

Fig.15. STARTING MOTOR

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129608-77010	STARTER, S114-817A	1							
2	2	129698-77020	SWITCH ASSY	1							
3	2	129698-77101	ARMATURE ASSY	1							
4	2	129608-77110	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	129698-77161	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							

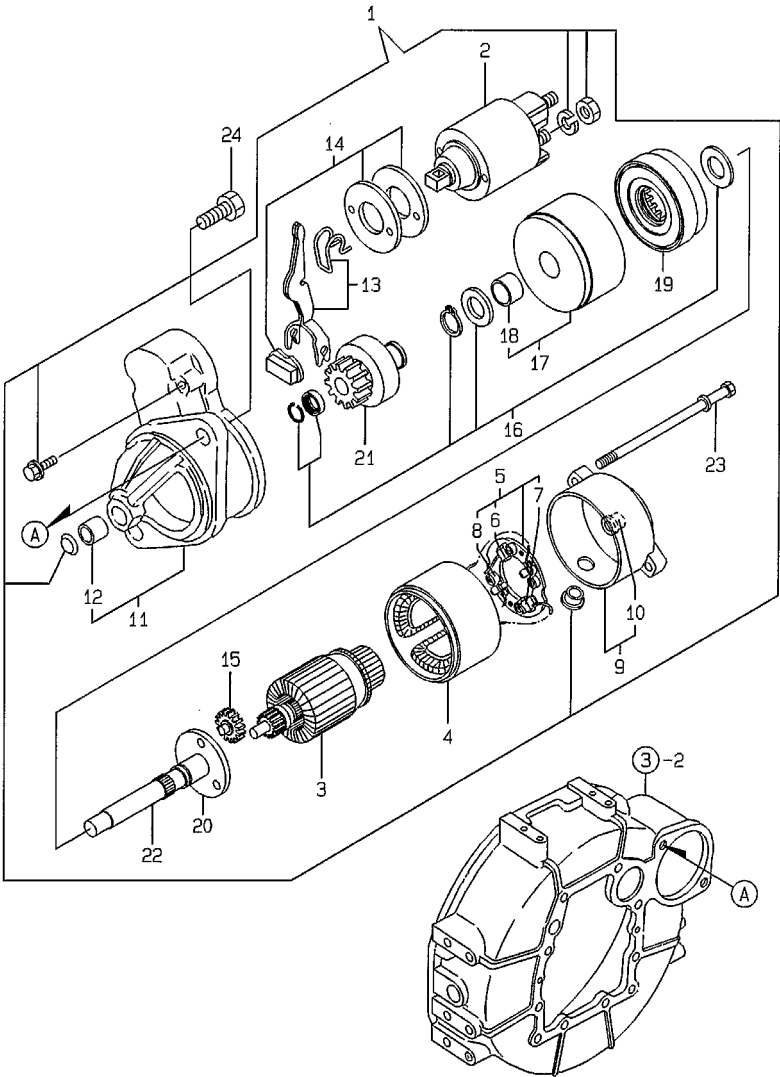
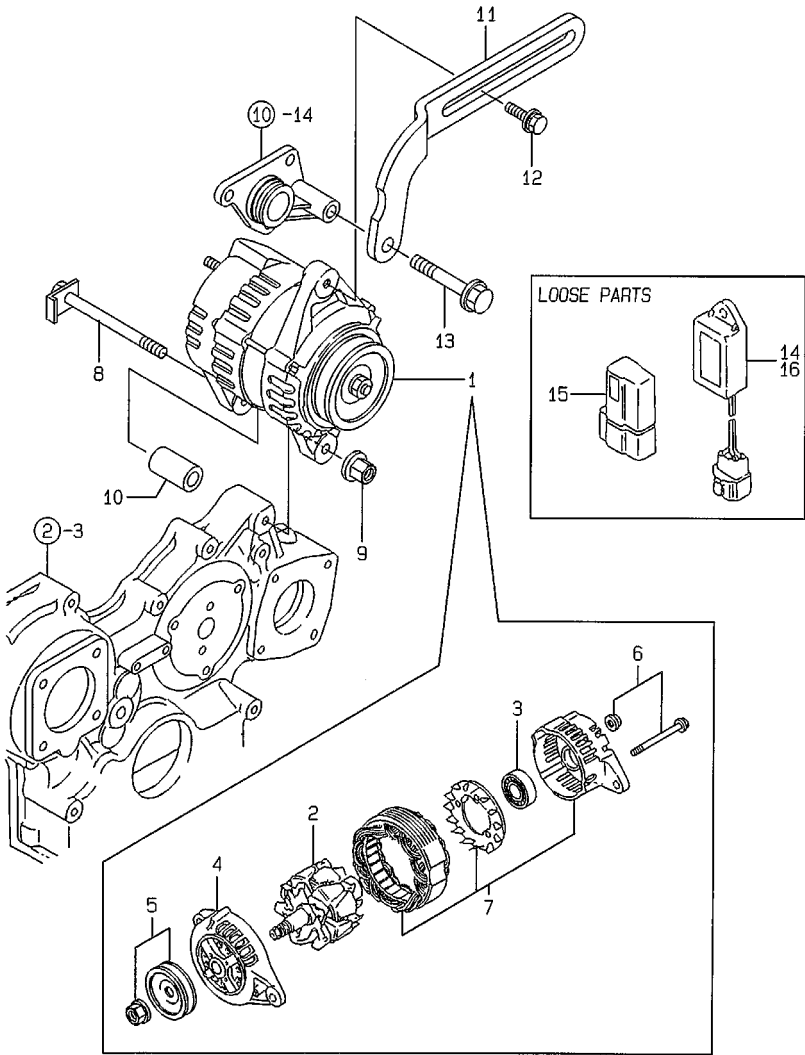
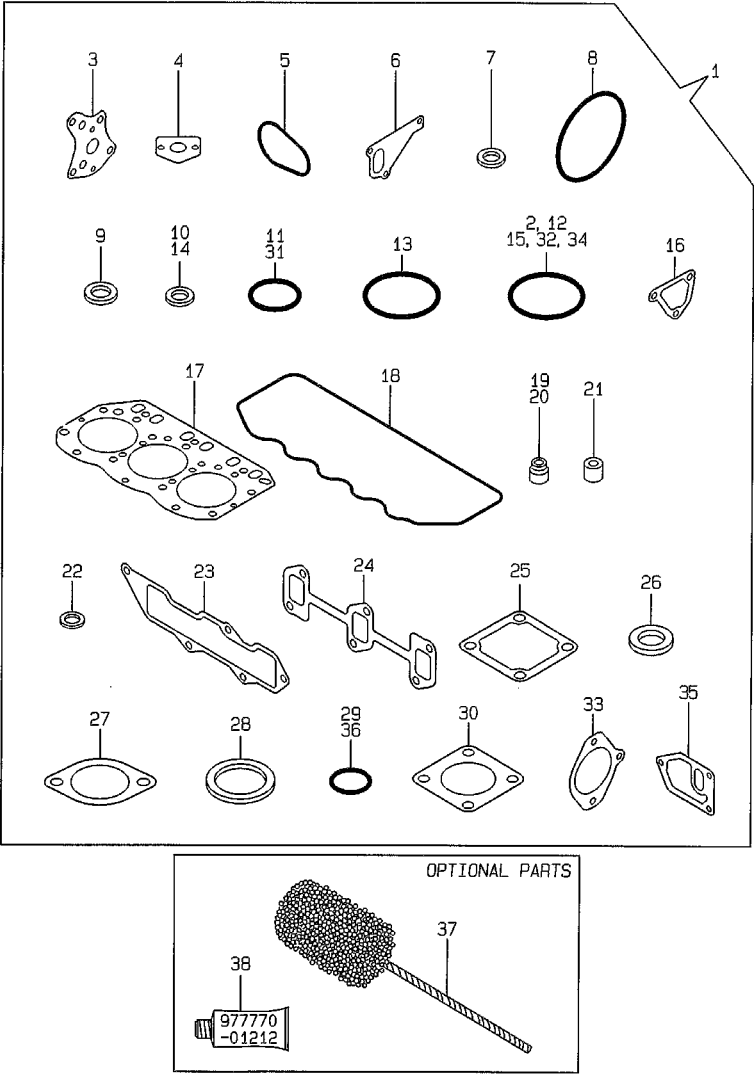


Fig.16. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77201	GENERATOR	1							
2	2	129612-77700	ROTOR ASSY	1							
3	2	129612-77710	BEARING, BALL	1							
4	2	129612-77730	BRACKET ASSY, FILTER	1							
5	2	129612-77740	PULLEY	1							
6	2	129612-77750	SCREW KIT	1							
7	2	119836-77920	BRACKET ASSY	1							
8	1	129136-77251	BOLT, M8X110	1							
9	1	129612-77260	NUT, ALTERNATOR	1							
10	1	119820-77340	PIECE, DISTANCE	1							
11	1	129100-77330	ADJUSTER	1							
12	1	119810-77340	BOLT, ADJUSTER	1							
13	1	26106-080502	BOLT, M8X 50 PLATED	1							
14	1	129211-77920	TIMER	1							
15	1	119643-66900	DIODE	1							
16	1	128300-77920	TIMER	1							

Fig.17. GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729030-92790	GASKET SET	1							1
2	2	24341-000500	O-RING, 1AS50.0	1							
3	2	129150-32020	GASKET, PUMP	1							
4	2	129150-35041	GASKET	1							
5	2	129120-35110	GASKET	1							
6	2	129486-42021	GASKET, WATER PUMP	1							
7	2	22190-080003	WASHER, SEAL 8	5							
8	2	121850-51960	O-RING	1							
9	2	22190-120002	WASHER, SEAL 12	4							
10	2	22190-100002	WASHER, SEAL 10	2							
11	2	24311-000160	O-RING, 1AP16.0	1							
12	2	129486-42140	O-RING, G30	1							
13	2	24341-000240	O-RING, 1AS24.0	1							
14	2	22190-080002	WASHER, SEAL 6	2							
15	2	24311-000320	O-RING, 1AP32.0	2							
16	2	124395-49840	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	119625-11872	PROTECTOR, NOZZLE	3							
22	2	119625-11880	SEAT, NOZZLE	3							
23	2	129001-12110	GASKET, MANIFOLD	1							
24	2	129150-13110	GASKET	1							
25	2	129150-77511	GASKET	1							
26	2	124465-44950	GASKET, 16	2							
27	2	129795-49551	GASKET	1							
28	2	129150-49811	GASKET, THERMOSTAT	1							
29	2	24311-000120	O-RING, 1AP12.0	3							
30	2	124701-11911	GASKET, SILENCER	1							
31	2	119609-32040	O-RING, P16	2							
32	2	24321-000350	O-RING, 1AG35.0	1							
33	2	171353-26081	GASKET	1							
34	2	24321-000850	O-RING, 1AG85.0	1							
35	2	129120-35121	GASKET	1							
36	2	24311-240100	O-RING, 1AP10A	1							
37	1	129400-92430	HONE	1							1
38	1	977770-01212	GASKET, LIQUID	1							1

Remarks
(1) OPTIONAL PART.

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	14	16
101720-55750	14	35
102103-55520	14	29
103854-39140	14	15
104200-55321	14	2
		25
104200-55330	14	3
		26
104200-55341	14	27
104200-55750	14	10
		36
105025-59750	13	51
	14	23
110250-55610	14	30
114250-39450	9	32
114250-53080	13	5
114250-53120	13	9
114250-53130	13	10
114250-53140	13	11
114250-53210	13	12
114250-53400	13	13
119131-18320	6	5
119260-34810	9	14
119265-49060	10	32
119285-66610	12	124
119305-59120	13	25
119600-66720	12	86
119609-32040	2	18
	17	31
119620-01750	3	3
119625-11872	4	21
	17	21
119625-11880	4	22
	17	22
119625-11900	4	23
119643-66900	16	15
119653-77950	12	118
119660-61901	12	61
119802-11280	4	37
119810-77340	16	12
119820-77340	16	10
119836-77201	16	1
119836-77920	16	7
119840-59500	13	35
119840-59560	13	37
119840-59570	13	38
119865-21600	8	14
119908-61501	12	33
120130-11860	4	8
120323-61470	12	81

Parts No.	Fig. No.	Ref. No.
121023-01550	2	24
121023-26070	7	17
121027-11743	2	27
121111-21501	8	11
121250-44901	10	36
121250-59550	13	34
121254-55510	14	28
121256-44600	10	44
121257-55720	14	33
121257-55731	14	34
121400-11340	4	18
	17	19
121450-01560	2	2
121450-42450	10	35
121550-23200	8	27
121850-21680	8	10
121850-51960	2	16
	17	8
121850-55710	14	32
121850-55800	14	24
122710-51090	11	9
124066-59100	13	33
		36
124160-01751	2	12
	4	59
124160-01910	1	4
124160-11360	4	50
124160-39140	9	18
124195-77770	15	23
124240-01871	2	13
124395-49840	10	17
	17	16
124450-44510	10	39
124450-44530	10	41
124450-44560	10	42
124460-11340	4	19
	17	20
124465-44950	10	37
		38
	17	26
124550-01590	2	6
		9
124550-51350	11	31
124550-51370	11	32
124550-59820	9	24
124550-59830	9	23
124574-44761	10	23
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