

PREFACE

1. This parts catalog is the 1st edition of 4TNV88-BPIR for Ingersoll Rand Co.,Ltd.

Pub.No. : 000Y00W2870

Published :December, 2007

2. Model name

Engine model	Vehicle	Vehicle made by
4TNV88-BPIR	Compressor	Ingersoll Rand Co.,Ltd.

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Revised (10-12)

How to read this Parts Catalog.

1. Parts mentioned in Parts Catalog may not necessarily be standard equipping parts
2. Parts change may be made without prior notice.
3. Form of this Parts Catalog.

Y00F2161 29. FUEL INJECTION PUMP (W/BOOST)

①

↓

REF.

②

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LEV.

④

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⑥

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		PARTS No.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1		729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			
1-1		729595-51391	FUEL INJECTION PUMP	1	1	1	1	1			
	⑤	(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X16	9	9	9	9	9			
I 3-1	2	26022-060162	SCREW M 6X16	4	4	4	4	4			K
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHIFT	9	9	9	9	9			
5	2	122710-51050	BEARING. ROLLER	9	9	9	9	9			
6	2	129470-51060	RETAINER	9	9	9	9	9			

Remarks

(1) BOOST COMPENSATOR TYPE.
OPTIONAL PART. TO E#00155
(4JH-DT, 4JH-DTZ)

①Ref. No,

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

(Ex.) illustration No, List heed No,
1 1 (Before change) → 1-1 (After change)

When interchangeable symbol N, and k, illustrations for the new parts are sometimes omitted.

②Lev. (Level)

Indication and Meaning of Level

Level Hereunder is given the relation among the number of number (1,2,3) the level and the nominal parent-child relationship.

1 ----- Parent parts (Assembly parts)

2 ----- Child parts included in " 1 " (Semi-Assembly parts, component parts of Assembly parts.)

3 ----- Child parts included in " 2 ", Grand-child parts in terms of " 1 ".

(Component parts of Semi-Assembly parts.)

Note) A parts of non-sale parts are illustrated but not listed.

③Change Mark

Change Mark " I " is given to the part for which a design change was made at this time.

The design change was not shown in the last published Parts Catalog.

④Interchangeability Mark

In the case where a part change took place, one of the following interchangeability marks is indicated for that part

Symbol	Interchangeability	Contents note
N	Old ← → New	New Part is interchangeable for Old Part but not interchangeable conversely.
Q	Old ← → New	New Part is not interchangeable for Old Part but interchangeable conversely.
R	Old ← → New	New Part is interchangeable for Old Part and vice versa.
S	Old ← → New	New Part is not interchangeable for Old Part and vice versa.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable single part but interchangeable by set of the related parts.
K		Changed only in quantity used.

⑤Effective Machine No,

When a part is changed, Effective Machine No, of a Model for which the part is applicable is indication

In each column of (A)-(F).

Product Symbol	Product No,	Product Symbol	Product No,
C	Clutch No, Compressor No,	M	Machine No,
D	Drive No,	T	Tractor No,
E	Engine No,	Note 1)※	Date

Note 1) Date may follow the symbol in some cases.(Ex.) ※1996.01

Note 2) As far as engine models shown by " XXX " are concerned, the modification of the parts could not be Predicted or the engine models themselves could not be identified.

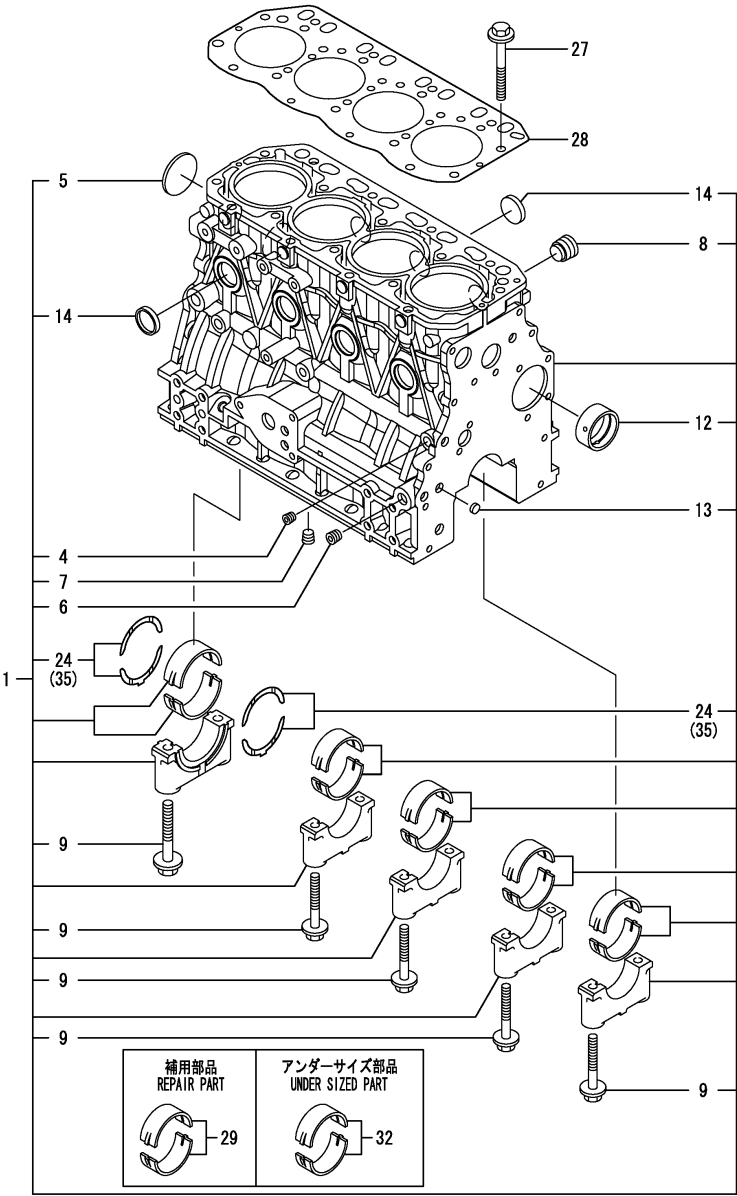
Note 3) (A=E/#00185) means that the design change on the part has been effective for the model at the, column (A) (in the case, for 4JH-DT) on and from E/(Engine Serial Number) 00185

⑥Remarks Mark

Figures or alphabets (Symbols) are entered in the remark column.

The comments (remarks) on the pertinent parts are indicated in the lower part of the list by the same symbols a those stated above.

Fig.1. CYLINDER BLOCK

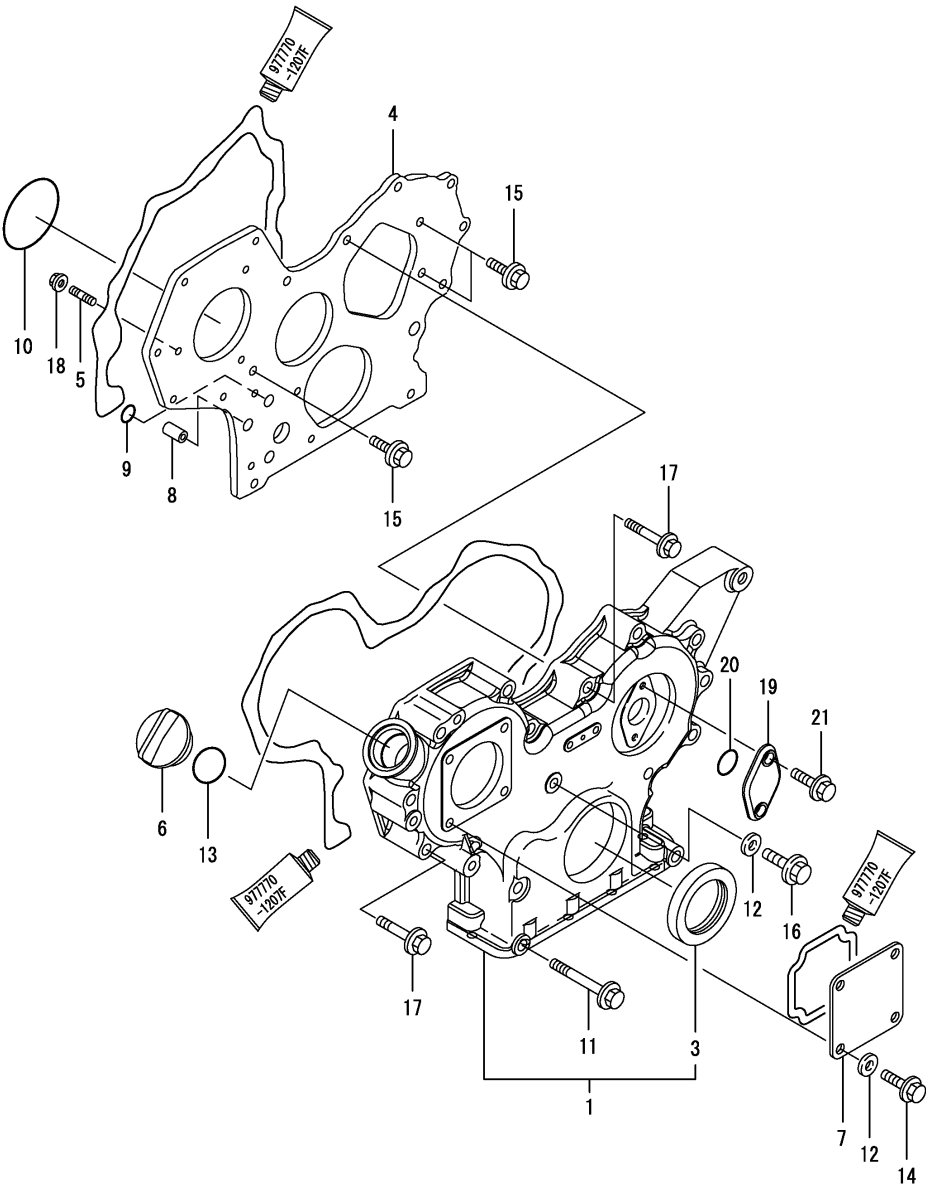


Remarks
(1) REPAIR PART.
(2) UNDER-SIZED(U.S=0.25)PART.
(3) OVER-SIZED(O.S=0.25)PART.

Y00W2870 1. CYLINDER BLOCK

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG PT1/8	1							
5	2	129001-01250	PLUG 50	1							
6	2	124160-01910	PLUG PT1/4	2							
7	2	124160-01910	PLUG PT1/4	1							
8	2	171051-01921	PLUG	1							
9	2	129150-02020	BOLT, METAL CAP	10							
12	2	129795-02412	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG 12	2							
14	2	27241-300000	PLUG 30	8							
24	2	129150-02931	METAL, THRUST	2							
27	1	129150-01200	STUD, CYL. HEAD	18							
28	1	129407-01340	GASKET,CYL.HEAD	1							
29	1	129001-02931	MAIN BEARING SET	5							1
32	1	129150-02871	MAIN METAL US=0.25	5							2
35	1	129150-02941	METAL,THRUST.25(4PIE	1							3

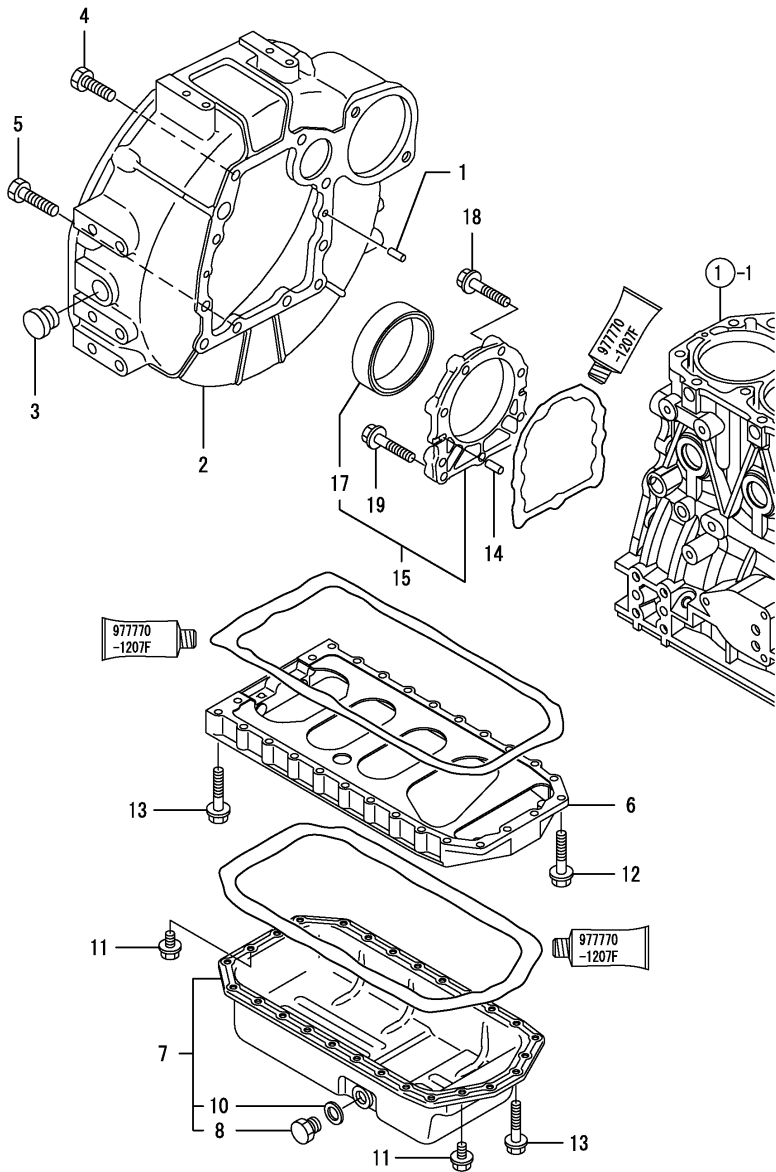
Fig.2. GEAR HOUSING



Y00W2870 2. GEAR HOUSING

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719803-01500	GEAR CASE ASSY	1							
3	2	119934-01800	SEAL, OIL	1							
4	1	119803-01520	FLANGE, GEAR CASE	1							
5	1	119802-01561	STUD, M8X25	3							
6	1	124160-01751	COVER,FILLER	1							
7	1	124240-01871	COVER, HO-P	1							
8	1	129795-01950	PIPE, KNOCK L=18	2							
9	1	119609-32040	O-RING P16	2							
10	1	121850-51960	O-RING, F.I.PUMP	1							
11	1	129001-91841	BOLT M 8X 85 PLATED	3							
12	1	22190-080002	SEAL WASHER 8S	5							
13	1	24311-000320	O-RING 1A P-32.0	1							
14	1	26106-080162	BOLT M 8X 16 PLATED	4							
15	1	26106-080162	BOLT M 8X 16 PLATED	3							
16	1	26106-080302	BOLT M 8X 30 PLATED	1							
17	1	26106-080552	BOLT M 8X 55 PLATED	12							
18	1	26306-080002	NUT	3							
19	1	121023-01551	COVER, BLIND	1							
20	1	24341-000240	O-RING 1A S-24.0	1							
21	1	26106-060162	BOLT M 6X 16 PLATED	2							

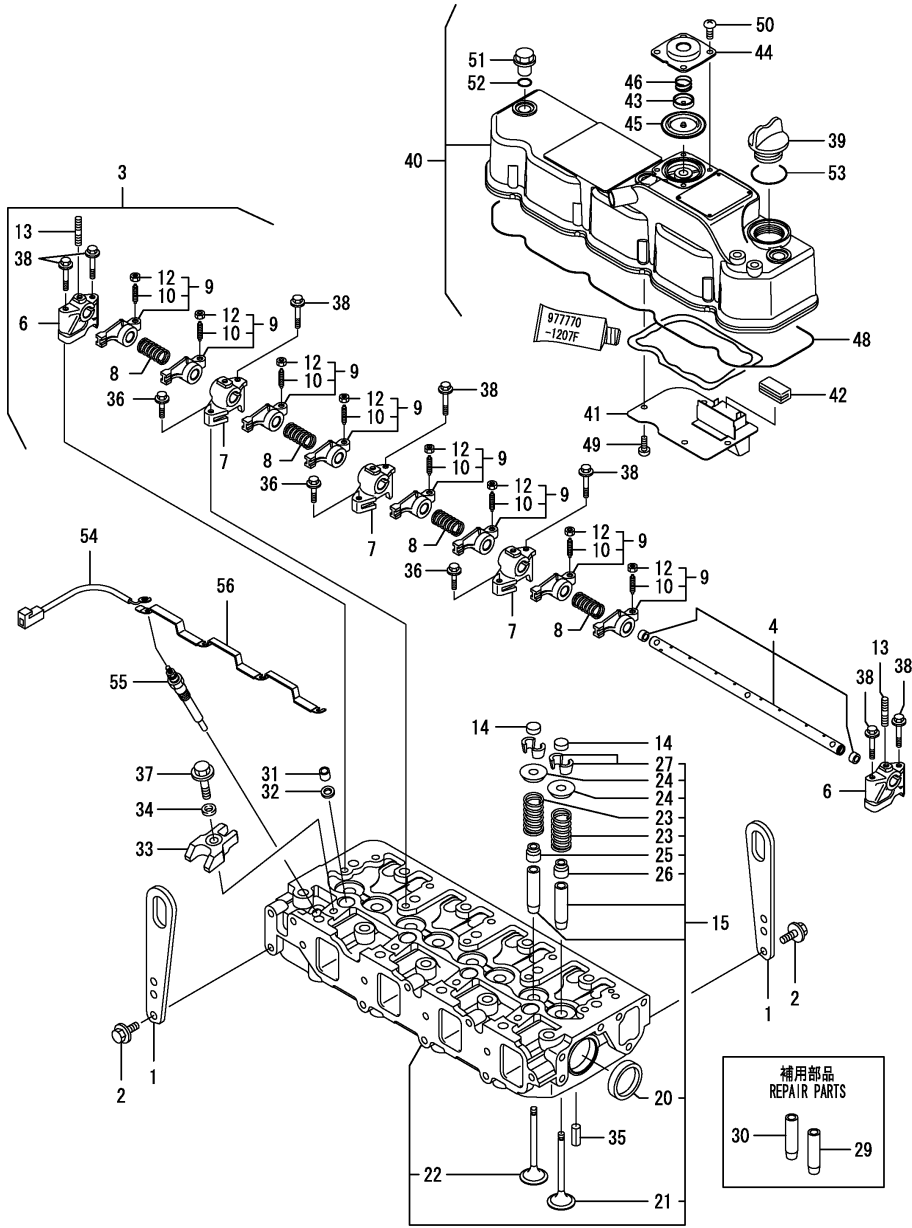
Fig.3. FLYWHEEL HOUSING & OIL SUMP



Y00W2870 3. FLYWHEEL HOUSING & OIL SUMP

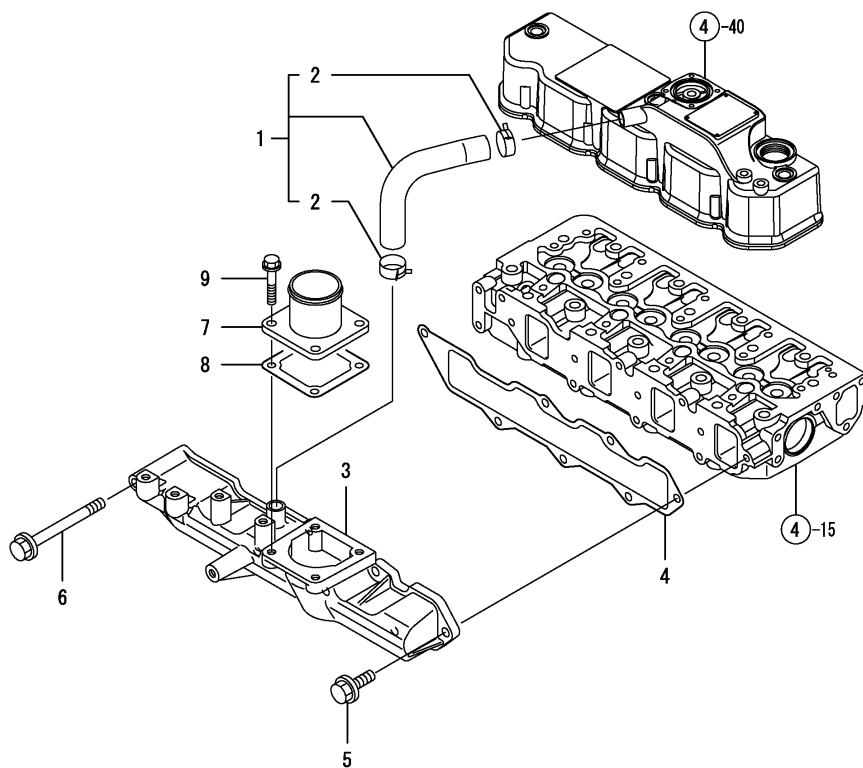
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL	2							
2	1	171420-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, 10 X 25	6							
5	1	26206-100302	BOLT, 10 X 30	4							
6	1	129400-01730	SPACER, OIL SUMP	1							
7	1	129400-01770	SUMP ASSY, LUB. OIL	1							
8	2	119640-01640	DRAIN PLUG M22	1							
10	2	22190-220002	SEAL WASHER 22S	1							
11	1	26106-080162	BOLT M 8X 16 PLATED	4							
12	1	26106-080252	BOLT M 8X 25 PLATED	2							
13	1	26106-080452	BOLT M 8X 45 PLATED	24							
14	1	129100-01580	PARALLEL PIN 8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
17	2	129795-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT M8X30,COLLAR HD	6							
19	1	26106-080352	BOLT M 8X 35 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER, ENGINE	2							
2	1	26106-080162	BOLT M 8X 16 PLATED	4							
3	1	129601-11241	SHAFT ASSY, ROCKER	1							
4	2	129601-11251	SHAFT	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	3							
8	2	129150-11280	SPRING	4							
9	2	129004-11650	ARM ASSY, ROCKER	8							
10	3	129150-11230	SCREW, VALVE	8							
12	3	129150-11750	NUT M8XP1.0	8							
13	2	26226-080182	STUD M 8X 18 PLATED	3							
14	1	129150-11370	CAP, VALVE	8							
15	1	129604-11700	HEAD ASSY, CYLINDER	1							
20	2	27241-400000	PLUG 40	2							
21	2	129005-11100	VALVE, INTAKE	4							
22	2	129100-11112	VALVE, EXHAUST	4							
23	2	129795-11120	SPRING, VALVE	8							
24	2	129795-11180	RETAINER, SPRING	8							
25	2	121400-11340	SEAL, VALVE STEM	4							
26	2	124460-11340	SEAL, VALVE STEM	4							
27	2	27310-080001	COTTER 8	8							
29	1	120130-11860	GUIDE, VALVE	4							1
30	1	129150-11810	GUIDE, VALVE	4							1
31	1	119802-11870	PROTECTOR, NOZZLE	4							
32	1	119625-11880	SEAT, NOZZLE	4							
33	1	129004-11900	RETAINER, NOZZLE	4							
34	1	120270-54410	WASHER	4							
35	1	22351-060012	SPRING PIN 6X12	2							
36	1	26106-080252	BOLT M 8X 25 PLATED	3							
37	1	26106-080352	BOLT M 8X 35 PLATED	4							
38	1	26106-080502	BOLT M 8X 50 PLATED	7							
39	1	124160-01751	COVER,FILLER	1							
40	1	129601-11350	BONNET ASSY	1							
41	2	129004-03010	PLATE, BAFFLE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE, DIAPHRAGM	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
48	2	129601-11310	GASKET,COVER	1							
49	2	22857-500100	SCREW 5X10,TAPPING	4							
50	2	22857-500100	SCREW 5X10,TAPPING	4							
51	1	124160-11360	KNOB	3							
52	1	24311-000120	O-RING 1A P 12.0	3							
53	1	24311-000320	O-RING 1A P-32.0	1							
54	1	119803-77830	HARNESS,GLOW PLUG	1							
55	1	129008-77800	PLUG, GLOW	4							
56	1	129604-77821	CONNECTOR, GLOW PLUG	1							



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129005-03080	PIPE, BREATHER	1							
2	2	129410-03990	CLAMP 22	2							
3	1	129602-12100	MANIFOLD,INT	1							
4	1	129407-12110	GASKET,INT.MANOFOLD	1							
5	1	26106-080202	BOLT M 8X 20 PLATED	6							
6	1	26106-080802	BOLT M 8X 80 PLATED	1							
7	1	129486-12581	JOINT	1							
8	1	129150-77511	GASKET, (NON-ASB.)	1							
9	1	26106-080202	BOLT M 8X 20 PLATED	4							

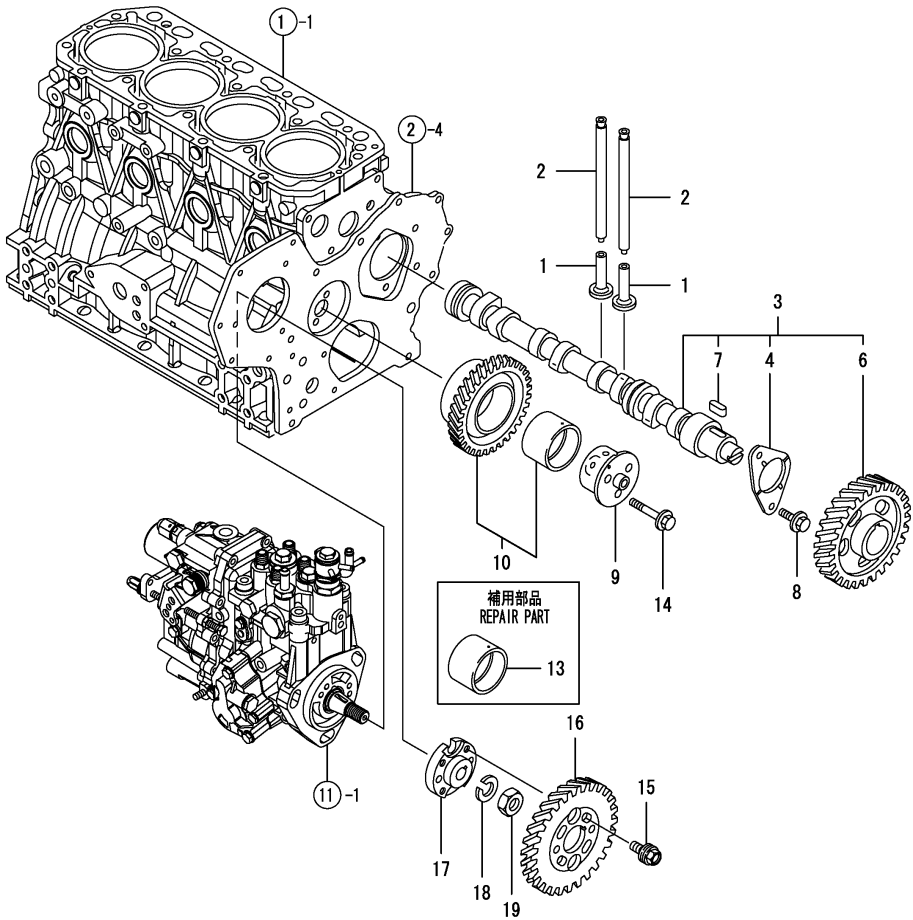


(D)=
(E)=
(F)=

[illegible]

N:Old $\xleftrightarrow{\ominus}$ New, Q:Old $\xleftrightarrow{\oplus}$ New, R:Old $\xleftrightarrow{\ominus}$ New, S:Old $\xleftrightarrow{\oplus}$ New, W:Add, Z:Discontinued, F:Set Change, K:Q'ty Change
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Fig.7. CAMSHAFT & DRIVING GEAR

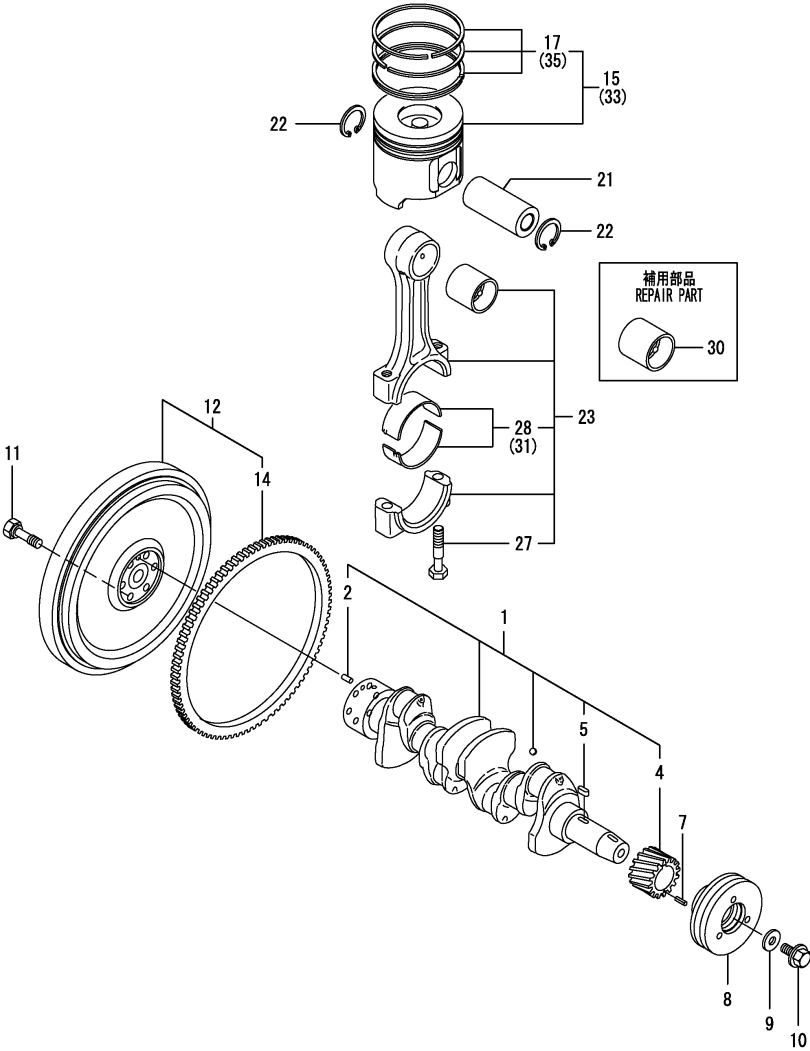


Y00W2870 7. CAMSHAFT & DRIVING GEAR

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8							
2	1	129150-14400	ROD, PUSH	8							
3	1	729402-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	METAL,THRUST(CAM	1							
6	2	129150-14101	GEAR, CAMSHAFT	1							
7	2	22512-070140	KEY 7X 14	1							
8	1	26106-080142	BOLT 8X 14 PLATED	2							
9	1	119803-25050	SHAFT, IDLE GEAR	1							
10	1	119802-25101	GEAR ASSY, IDLE	1							
13	1	119802-25071	BUSH, IDLE GEAR	1							1
14	1	26106-080402	BOLT M 8X 40 PLATED	3							
15	1	129150-25301	BOLT,FI-P	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	158552-51151	FLANGE	1							
18	1	22217-140000	SPRING WASHER 14	1							
19	1	26776-140002	LOCK NUT M14 PLATED	1							

Remarks
(1) REPAIR PART.

Fig.8. CRANKSHAFT & PISTON



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

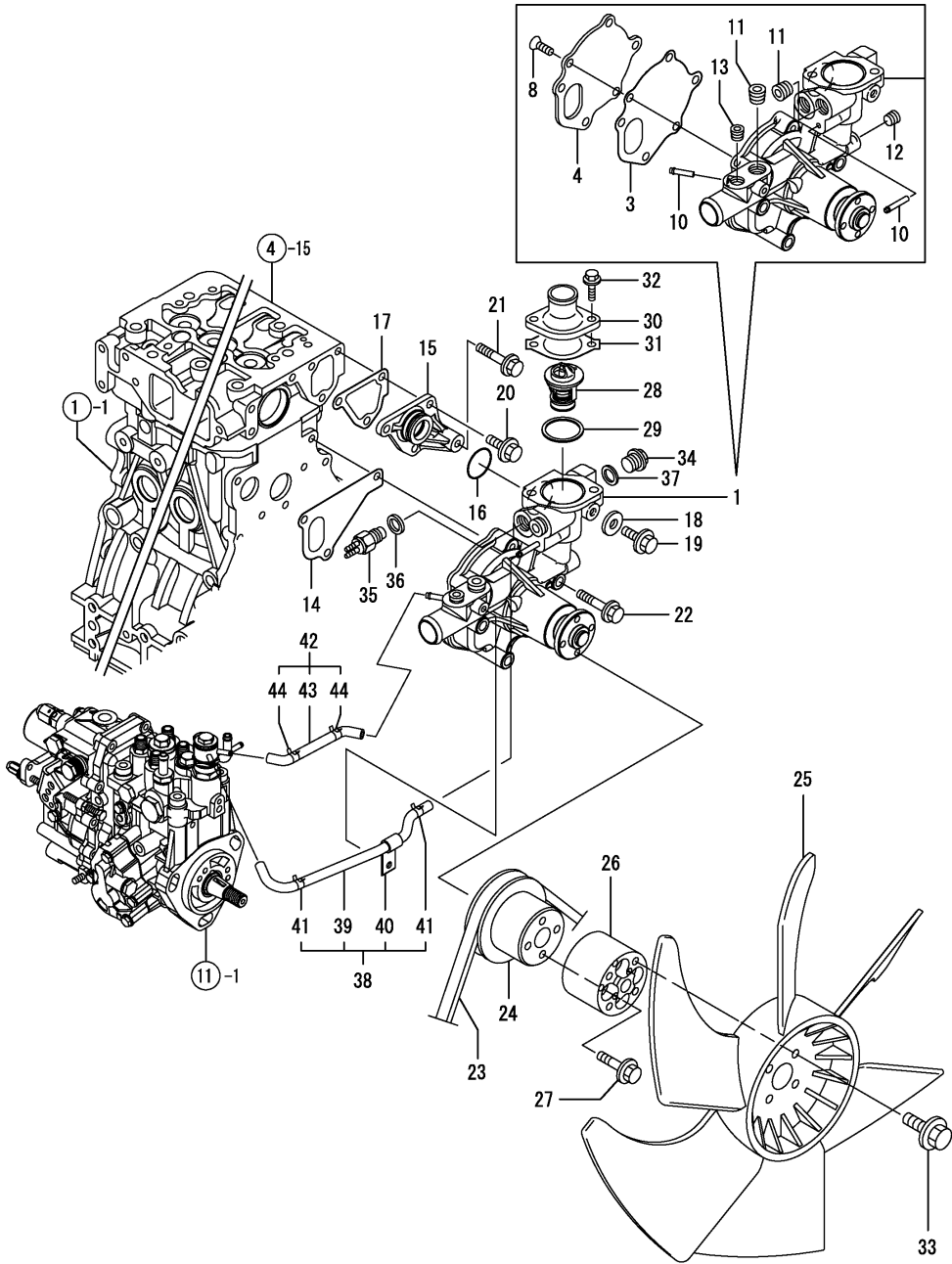
8. CRANKSHAFT & PISTON

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129604-21000	CRANKSHAFT ASSY	1							
2	2	129100-01580	PARALLEL PIN 8X16	1							
4	2	119803-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY 7X 14	1							
7	1	22351-030010	SPRING PIN 3X10	1							
8	1	119802-21650	V-PULLEY, CRANKSHAFT	1							
9	1	129795-21661	WASHER	1							
10	1	121850-21680	BOLT, V-PULLEY	1							
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	129601-21570	FLYWHEEL ASSY	1							
14	2	124550-21600	RING GEAR	1							
15	1	129005-22080	PISTON ASSY	4							
17	2	129005-22500	RING SET, PISTON	4							
21	1	129202-22300	PIN, PISTON(D26,L70)	4							
22	1	22252-000260	CIRCLIP 26	8							
23	1	729402-23100	ROD ASSY, CONNECTING	4							
27	2	121550-23200	BOLT, CONNECTING ROD	8							
28	2	129150-23601	METAL, CRANKPIN	4							
30	1	129100-23910	BUSH, PISTON PIN	4							1
31	1	129150-23611	METAL.PIN US=0.25	4							2
33	1	129005-22900	PISTON W/RING OS=.25	4							3
35	2	129005-22950	RING SET O.S=0.25	4							3

Fig.9. LUB.OIL SYSTEM

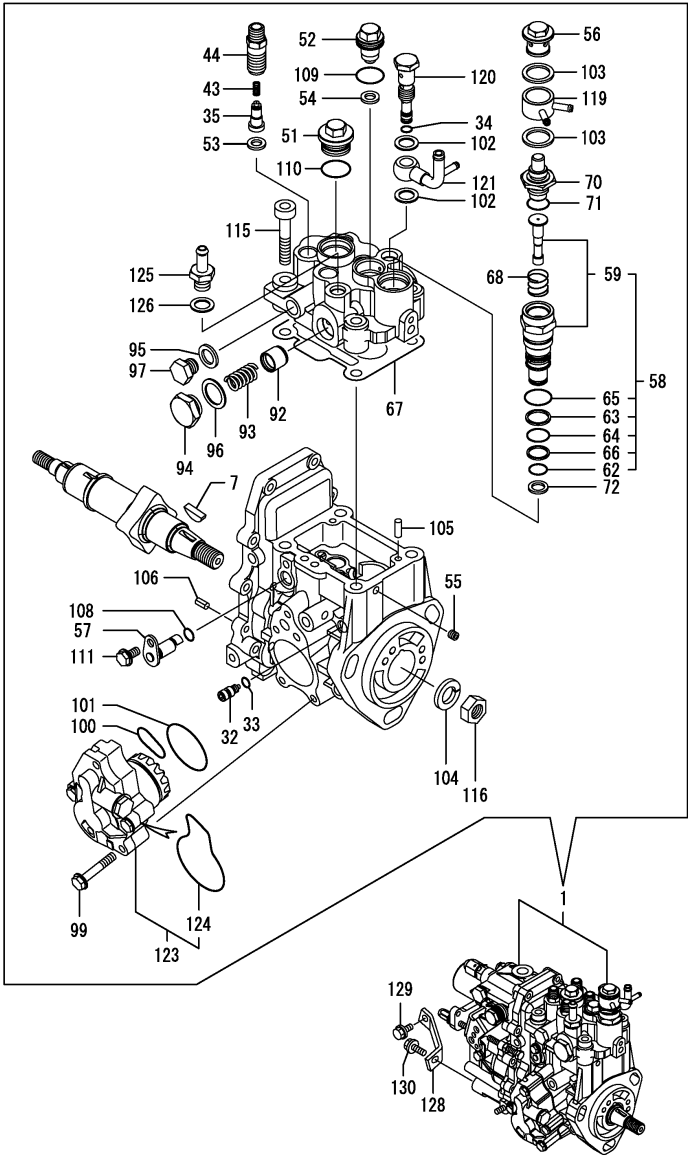
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129407-32000	PUMP ASSY, LUB. OIL	1							
14	1	129150-32020	GASKET, L.O. PUMP	1							
15	1	26450-060252	BOLT M 6X 25	4							
16	1	129004-34802	DIPSTICK, LUB.OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35042	GASKET, (NON-ASB.)	1							
19	1	129436-35091	PIPE ASSY, LUB. OIL	1							
20	1	26106-080352	BOLT M 8X 35 PLATED	2							
21	1	124160-39140	BOLT 10, PIPE JOINT	1							
22	1	119802-39450	PIPE ASSY, LUB. OIL	1							
23	1	129005-59830	BOLT ASSY, JOINT	1							
24	2	22190-080002	SEAL WASHER 8S	1							
25	2	23857-030000	JOINT BOLT 3	1							
26	1	22190-080002	SEAL WASHER 8S	1							
27	1	22190-100002	SEAL WASHER 10S	2							
28	1	26366-060002	NUT M 6	1							
29	1	26106-080202	BOLT M 8X 20 PLATED	3							
30	1	119802-35100	BRACKET ASSY, FILTER	1							
31	2	119802-35110	BRACKET, FILTER	1							
32	2	129100-35140	STUD	1							
33	1	129150-35111	GASKET, (NON-ASB.)	1							
34	1	171056-49120	PLUG, DRAIN	1							
35	1	119802-35150	FILTER, 80X80L ASSY	1							
36	2	119802-07020	LABEL (LO FILTER	1							
38	1	119940-39470	LO SWITCH CMP	1							
39	2	119802-39460	OIL PRESSURE SWITCH	1							
40	2	119285-39610	ADAPTER	1							

Fig.10. COOLING WATER SYSTEM



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-42001	PUMP ASSY, WATER	1							
3	2	129100-42051	GASKET, (NON-ASB.)	1							
4	2	129100-42121	PLATE	1							
8	2	121850-42410	SCREW	3							
10	2	119802-49113	JOINT	2							
11	2	129916-49740	PLUG, DRAIN R03	2							
12	2	23876-010000	PLUG PT1/8,SCREW	1							
13	2	23876-020000	PLUG PT1/4,SCREW	1							
14	1	129486-42021	GASKET	1							
15	1	129004-42040	JOINT	1							
16	1	129486-42140	O-RING,CW-P	1							
17	1	124395-49840	GASKET, THERMO. CASE	1							
18	1	23414-080000	GASKET 8, ROUND	1							
19	1	26106-080122	BOLT M 8X 12 PLATED	1							
20	1	26106-080162	BOLT M 8X 16 PLATED	3							
21	1	26106-080452	BOLT M 8X 45 PLATED	1							
22	1	26106-080602	BOLT M 8X 60 PLATED	3							
23	1	25132-003800	V-BELT A-38	1							
24	1	129556-42350	V-PULLEY	1							
25	1	129916-44740	FAN	1							
26	1	129601-44770	SPACER, FAN 50MM	1							
27	1	26106-060552	BOLT M 6X 55 PLATED	4							
28	1	129155-49801	THERMOSTAT (71)	1							
29	1	129150-49811	GASKET, (NON-ASB.)	1							
30	1	129350-49530	COVER, THERMOSTAT	1							
31	1	129795-49551	GASKET, (NON-ASB.)	1							
32	1	26106-080222	BOLT M 8X 22 PLATED	2							
33	1	26106-080162	BOLT M 8X 16 PLATED	4							
34	1	121450-42450	PLUG M16	1							
35	1	119843-44900	SWITCH, THERMO	1							
36	1	124465-44950	GASKET 16	1							
37	1	124465-44950	GASKET 16	1							
38	1	129004-49610	PIPE ASSY, A MP2	1							
39	2	129004-49711	PIPE ASSY, A MP2	1							
40	2	119802-49730	CLAMP,CW-T	1							
41	2	124722-59050	CLAMP 9	2							
42	1	129004-49620	PIPE ASSY, B MP2	1							
43	2	129004-49721	PIPE, WATER B MP2	1							
44	2	124722-59050	CLAMP 9	2							

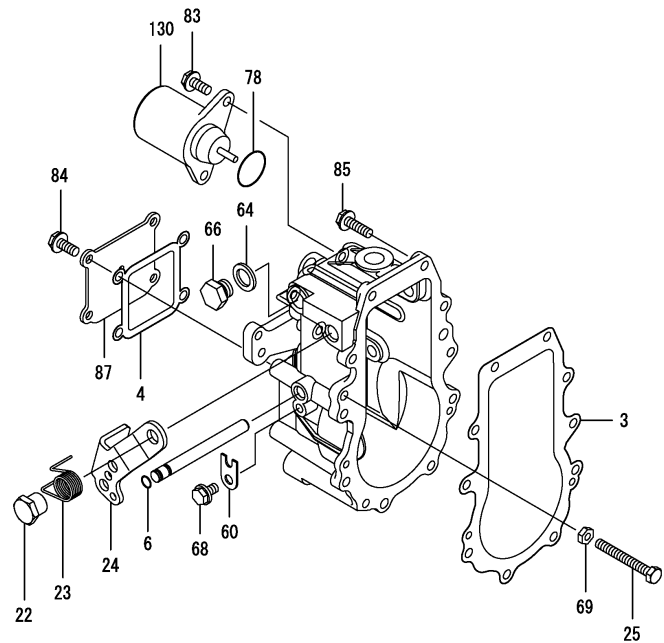
Fig.11. FUEL INJECTION PUMP



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

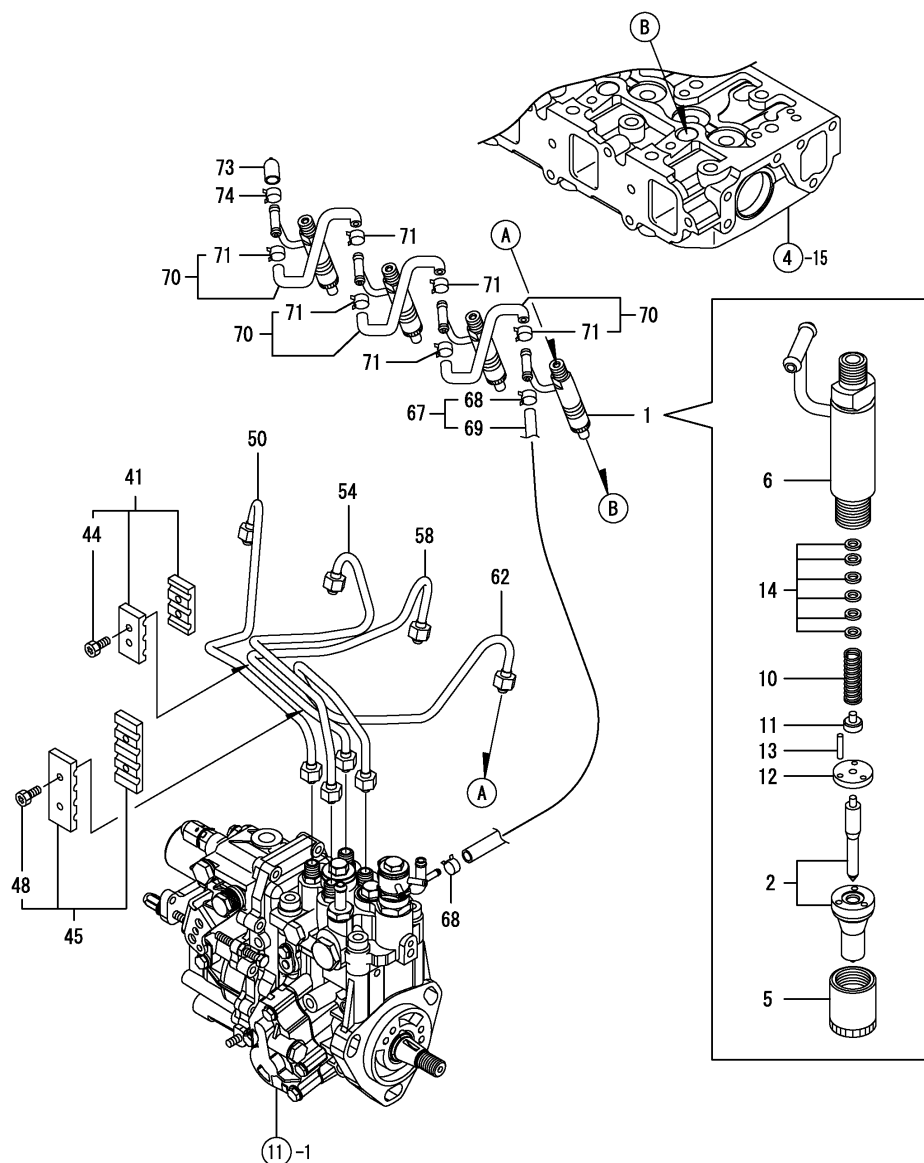
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729630-51380	INJECTION PUMP ASSY	1							1
7	2	119802-51090	KEY,WOODRUFF 4X16	1							
32	2	158600-51270	STOPPER	1							
33	2	158563-51281	O-RING	1							
34	2	158563-51281	O-RING	1							
35	2	129008-51300	VALVE ASSY, DILEVERY	4							
43	2	158563-51330	SPRING	4							
44	2	129008-51340	HOLDER, DELIVERY	4							
51	2	158601-51550	PLUG	1							
52	2	119802-51560	BARREL PLUG	1							
53	2	158552-51570	PK(BARREL PLUG	3							
54	2	158552-51570	PK(BARREL PLUG	1							
55	2	158557-51570	PLUG	1							
56	2	158601-51570	PLUG,WATER PUMP	1							
57	2	158552-51580	LIFTER	1							
58	2	119802-51590	TIMER SET	1							
59	3	119802-51600	TIMER CMP	1							
62	3	158553-51670	O-RING, 1011	1							
63	3	119802-51680	BACKUP RING	1							
64	3	119802-51690	O RING	1							
65	3	24356-010200	PACKING, 1020	1							
66	3	24372-000150	RING, BACKUP T2 P 15	1							
67	2	158552-51600	PACKING, HEAD	1							
68	2	158553-51630	SPRING,TIMER	1							
70	2	158553-51640	ELEMENT, THERMO	1							
71	2	158553-51660	O-RING,P14	1							
72	2	158553-51680	PACKING,TIMER	1							
92	2	158601-51770	PISTON	1							
93	2	158552-51781	DAMPER ASSY	1							
94	2	158601-51790	PLUG	1							
95	2	22190-120002	SEAL WASHER 12	1							
96	2	22190-180002	SEAL WASHER 18	1							
97	2	23887-120002	PLUG M12,HEX.	1							
99	2	158553-51770	BOLT	4							
100	2	158552-52310	O-RING	1							
101	2	158552-52400	O-RING 4E S42	1							
102	2	22190-120002	SEAL WASHER 12	2							
103	2	22190-180002	SEAL WASHER 18	2							
104	2	22217-140000	SPRING WASHER 14	1							
105	2	22312-050140	PARALLEL PIN 5X14	2							
106	2	22351-050010	SPRING PIN 5X10	2							
108	2	24311-000070	O-RING 1A P-7.0	1							
109	2	24356-010180	O-RING	1							
110	2	24356-010200	PACKING, 1020	1							
111	2	26106-060102	BOLT 6X 10 PLATED	1							
115	2	26450-080452	BOLT M 8X 45	4							
116	2	26776-140002	LOCK NUT M14 PLATED	1							
119	2	158553-51551	JOINT, COOLING WATER	1							
120	2	158601-51650	JOINT	1							
121	2	158552-51670	JOINT	1							
123	2	158552-52100	PUMP ASSY,FEED	1							

Fig.12. GOVERNOR

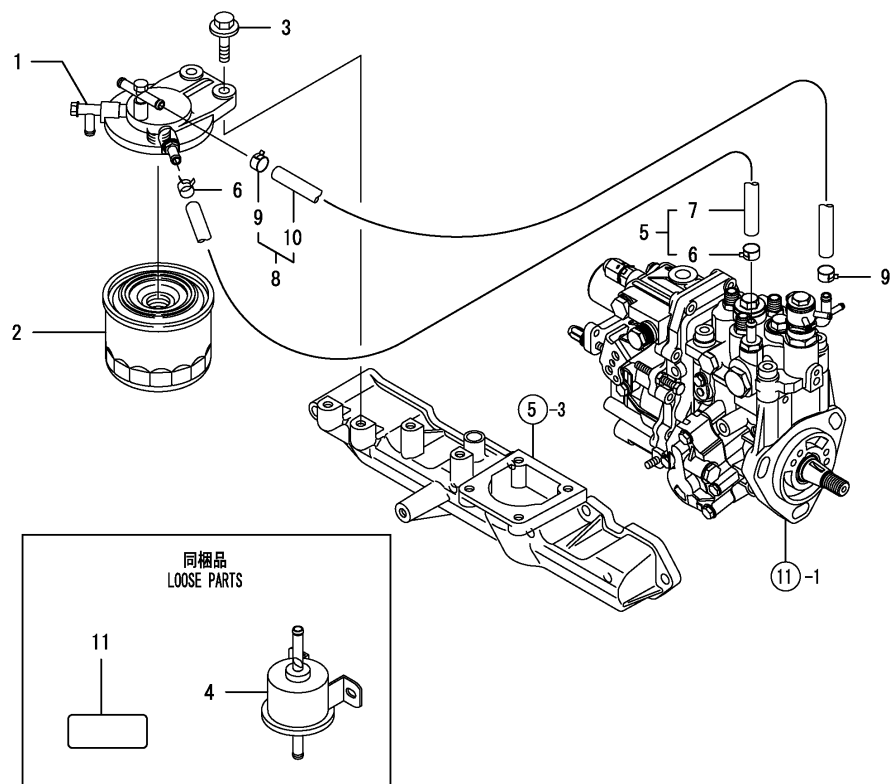


Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.11).

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	158553-61050	PACKING, CASE	1							
4	2	158553-61070	PACKING	1							
6	2	129155-51280	O-RING S6	1							
22	2	129255-61410	NUT	1							
23	2	119807-61420	SPRING	1							
24	2	158552-61441	LEVER, REGULATOR	1							
25	2	129155-61460	BOLT, IDLE LIMIT	1							
60	2	119660-61901	RETAINER, SHAFT	1							
64	2	22190-120000	SEAL WASHER 12(BOLT)	1							
66	2	23887-120002	PLUG M12,HEX.	1							
68	2	26106-060102	BOLT 6X 10 PLATED	1							
69	2	26756-060002	LOCK NUT 6	1							
78	2	158552-61900	O-RING	1							
83	2	26106-060142	BOLT M 6X 14 PLATED	2							
84	2	26106-060142	BOLT M 6X 14 PLATED	4							
85	2	26106-060202	BOLT M 6X 20 PLATED	10							
87	2	129642-61060	COVER, CASE	1							
130	2	119802-77960	SOLENOID	1							



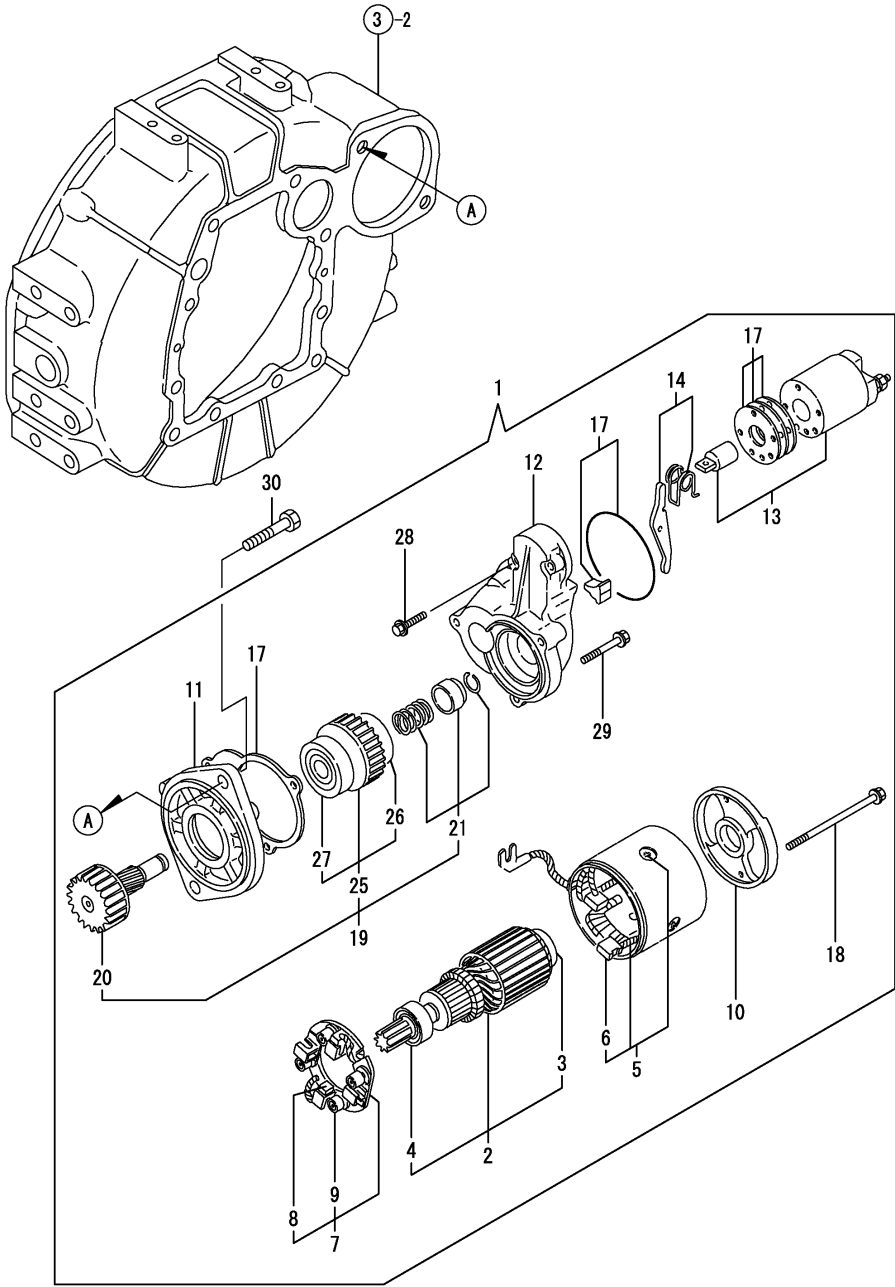
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729604-53100	FUEL INJECTOR(SDK	4							
2	2	129604-53000	NOZZLE ASSY	4							
5	2	114250-53080	NUT, NOZZLE CASE	4							
6	2	119802-53100	HOLDER ASSY, NOZZLE	4							
10	2	114250-53120	SPRING, NOZZLE	4							
11	2	114250-53130	SEAT, NOZZLE SPRING	4							
12	2	114250-53140	PLATE, STOP	4							
13	2	114250-53210	PIN	8							
14	2	119803-53400	SHIM PACK	4							
41	1	129150-59120	RETAINER, INJ. PIPE	1							
44	2	129150-59131	BOLT M4X14,HEX.SCKT.	2							
45	1	129550-59120	RETAINER	1							
48	2	129150-59131	BOLT M4X14,HEX.SCKT.	2							
50	1	129601-59810	PIPE ASSY, INJECTION	1							
54	1	129601-59820	PIPE ASSY, INJECTION	1							
58	1	129601-59830	PIPE ASSY, INJECTION	1							
62	1	129601-59840	PIPE ASSY, INJECTION	1							
67	1	119802-59550	PIPE ASSY, RETURN	1							
68	2	124722-59050	CLAMP 9	2							
69	2	119802-59560	PIPE, FUEL RETURN	1							
70	1	129486-59551	PIPE, FUEL RETURN	3							
71	2	124722-59050	CLAMP 9	6							
73	1	119593-59581	CAP	1							
74	1	124060-77680	CLAMP 10	1							



Y00W2870 14. FUEL LINE

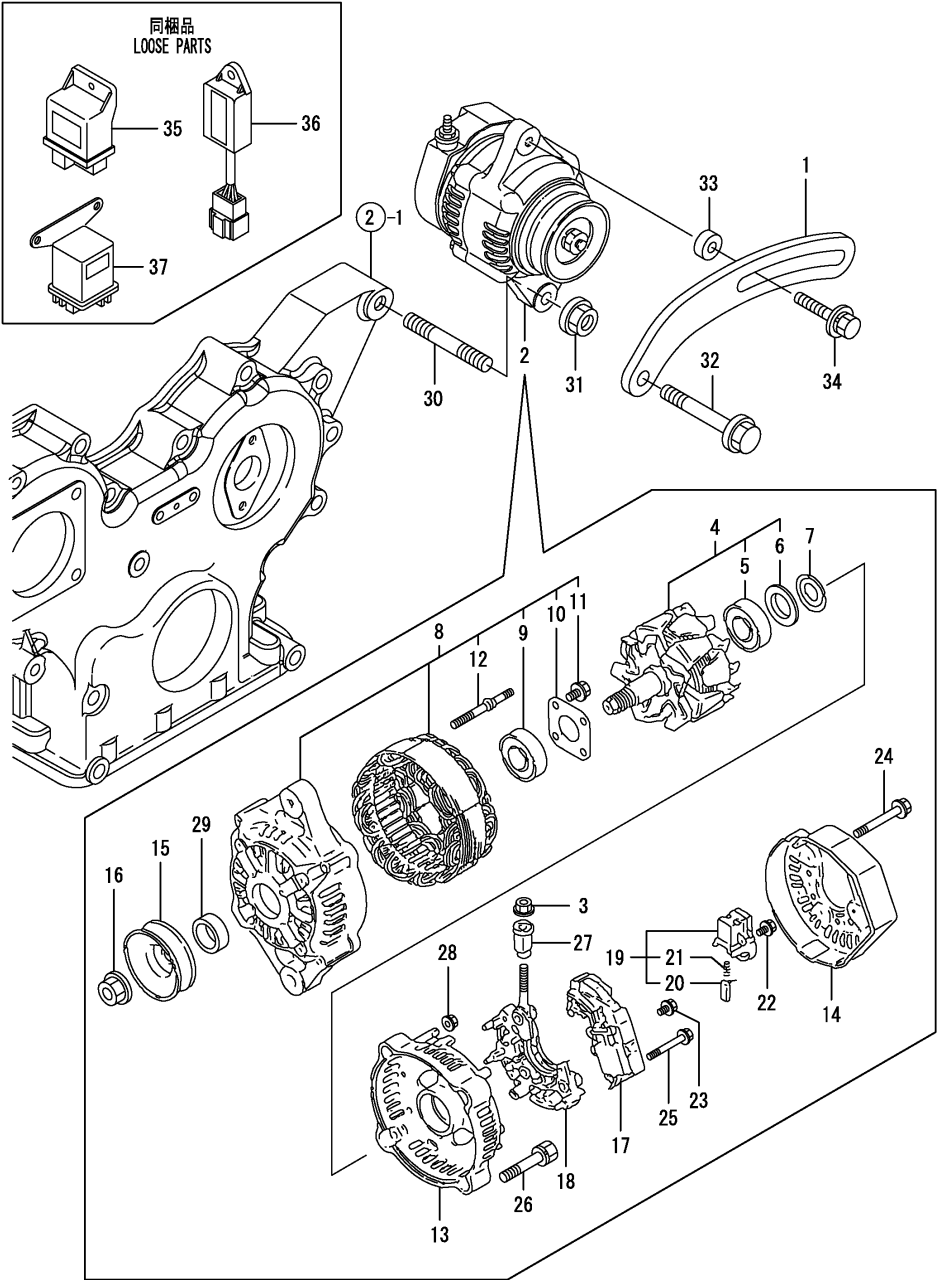
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)=4TNV88-BPIR (D)=					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129004-55612	BRACKET,FUEL FILTER	1					
2	1	119802-55831	FILTER, FUEL OIL	1					
3	1	26106-080302	BOLT M 8X 30 PLATED	2					
4	1	119225-52102	PUMP ASSY, FUEL FEED	1					
5	1	129210-59110	PIPE ASSY, FUEL OIL	1					
6	2	124766-59050	CLAMP, HOSE 12	2					
7	2	105025-59560	PIPE, FUEL OIL	1					
8	1	129210-59150	PIPE ASSY, FUEL OIL	1					
9	2	124766-59050	CLAMP, HOSE 12	2					
10	2	105025-59530	PIPE, FUEL OIL	1					
11	1	119802-52120	LABEL (FEED PUMP	1					

Fig.15. STARTING MOTOR



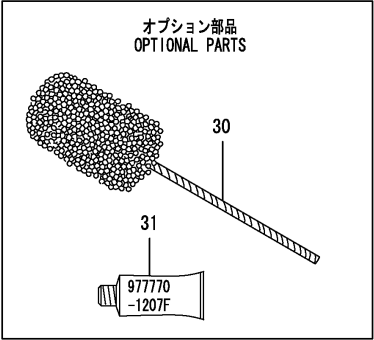
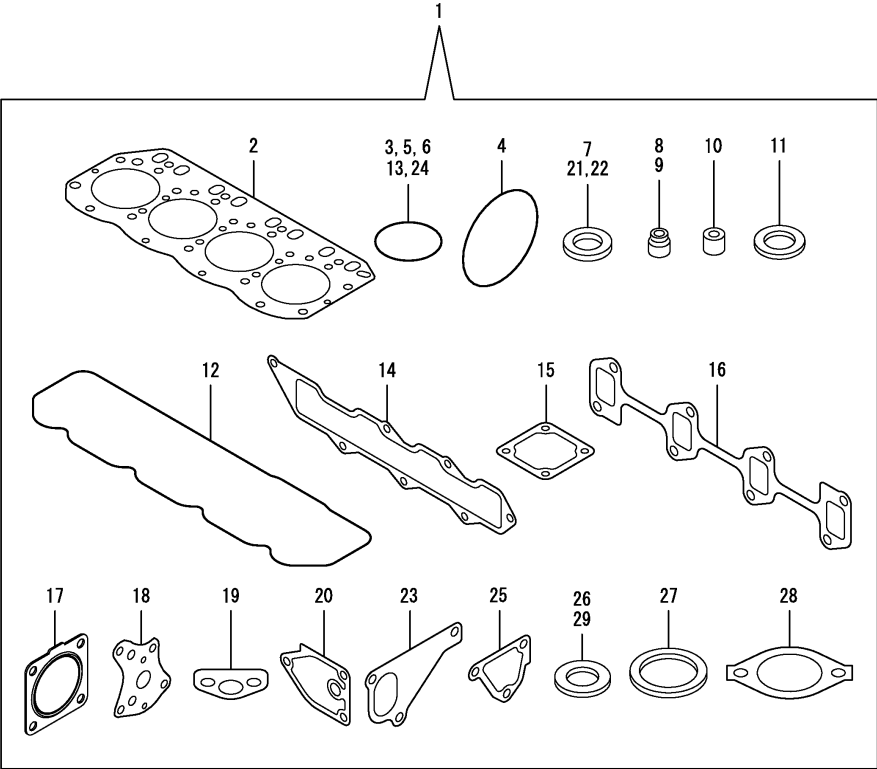
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-77012	STARTING MOTOR	1							
2	2	129486-77400	ARMATUER	1							
3	3	171008-77410	BEARING(1)	1							
4	3	171008-77420	BEARING(2)	1							
5	2	129400-77441	FIELD COIL ASSY	1							
6	3	129486-77460	BRUSH	2							
7	2	129486-77470	HOLDER ASSY, BRUSH	1							
8	3	129486-77460	BRUSH	2							
9	3	129486-77490	SPRING,START BRUSH	4							
10	2	129900-77460	COVER, REAR	1							
11	2	171008-77510	HOUSING ASSY, GEAR	1							
12	2	129400-77520	HOUSING, CENTER	1							
13	2	129400-77531	SWITCH ASSY,MAGNETIC	1							
14	2	171008-77540	LEVER SET, SHIFT	1							
17	2	129400-77571	DUST COVER,(NON-ASB.	1							
18	2	129900-77640	BOLT, THROUGHT	2							
19	2	171008-77650	PINION ASSY	1							
20	3	171008-77660	SHAFT, PINION	1							
21	3	171008-77670	STOPPER SET, PINION	1							
25	3	X2114555500	CLUTCH ASSY	1							
26	4	X2114955020	BALL BEARING	1							
27	4	X2240410100	BALL BEARING	1							
28	2	26106-060322	BOLT M 6X 32 PLATED	2							
29	2	26106-060402	BOLT M 6X 40 PLATED	3							
30	1	26116-120252	BOLT M12X 25 PLATED	2							

Fig.16. GENERATOR



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-77330	ADJUSTER, BELT	1							
2	1	129423-77200	GENERATOR	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	119620-79240	BALL BEARING	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-79360	THRUST WASHER	1							
8	2	119620-77421	FLAME ASSY, DRIVE	1							
9	3	119620-79200	BALL BEARING	1							
10	3	119620-79210	PLATE	1							
11	3	119620-79220	SCREW	4							
12	3	119620-79230	BOLT, STUD	2							
13	2	119620-77440	FLAME ASSY, REAR	1							
14	2	129423-77450	COVER	1							
15	2	119620-77461	PULLEY	1							
16	2	119620-77471	NUT	1							
17	2	129423-77710	REGULATOR ASSY	1							
18	2	119620-79260	HOLDER	1							
19	2	119620-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH ASSY	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	1							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW W/WASHER	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	INSULATION BUSH	1							
28	2	119620-79350	NUT	2							
29	2	119620-77490	COLLAR	1							
30	1	129795-01900	STUD	1							
31	1	26306-100002	NUT	1							
32	1	26106-080452	BOLT M 8X 45 PLATED	1							
33	1	119940-77270	ADJUSTER, BELT	1							
34	1	129972-77341	BOLT, ADJUSTING	1							
35	1	119802-77200	RELAY, SAFETY	1							
36	1	129211-77920	TIMER	1							
37	1	119650-77910	RELAY, GROW	1							

Fig.17. GASKET SET



Remarks
(1) OPTIONAL PART.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729602-92630	GASKET SET(NON-ASB.)	1							1
2	2	129407-01340	GASKET,CYL.HEAD	1							
3	2	119609-32040	O-RING P16	2							
4	2	121850-51960	O-RING, F.I.PUMP	1							
5	2	24311-000320	O-RING 1A P-32.0	2							
6	2	24341-000240	O-RING 1A S-24.0	1							
7	2	22190-220002	SEAL WASHER 22S	1							
8	2	121400-11340	SEAL, VALVE STEM	4							
9	2	124460-11340	SEAL, VALVE STEM	4							
10	2	119802-11870	PROTECTOR, NOZZLE	4							
11	2	119625-11880	SEAT, NOZZLE	4							
12	2	129601-11310	GASKET,COVER	1							
13	2	24311-000120	O-RING 1A P 12.0	3							
14	2	129407-12110	GASKET,INT.MANOFOLD	1							
15	2	129150-77511	GASKET, (NON-ASB.)	1							
16	2	129550-13110	GASKET, EXH.MANIFOLD	1							
17	2	129930-13201	GASKET, SILENCER	1							
18	2	129150-32020	GASKET, L.O. PUMP	1							
19	2	129150-35042	GASKET, (NON-ASB.)	1							
20	2	129150-35111	GASKET, (NON-ASB.)	1							
21	2	22190-080002	SEAL WASHER 8S	2							
22	2	22190-100002	SEAL WASHER 10S	2							
23	2	129486-42021	GASKET	1							
24	2	129486-42140	O-RING,CW-P	1							
25	2	124395-49840	GASKET, THERMO. CASE	1							
26	2	23414-080000	GASKET 8, ROUND	1							
27	2	129150-49811	GASKET, (NON-ASB.)	1							
28	2	129795-49551	GASKET, (NON-ASB.)	1							
29	2	124465-44950	GASKET 16	2							
30	1	129400-92430	HORN, FLEX	1							1
31	1	977770-1207F	GASKET,LIQUID	1							1