

OCF10-M20902EN

Introduction

1.This parts catalog for 4JHL-N(YMGN15A),4JHL-TN(YMGN20A),4JHL-HTN(YMGN25A) is published as a revised edition of the Diesel engine.

	Date of issue	Remarks
First edition	Feb.,1986	No need
1st revised edition	July,2000	No need
2nd revised edition	Nov.,2013	

2.Standard finish color. Extra light blue
Parts No. 977620-10130 1L(Packed in a can)
Parts No. 977620-40140 4L(Packed in a can)
Parts No. TOR-94809000 Spray(1 piece)

3.This parts catalog does not contain the technical data needed for maintenance service.

4.The illustrations used in this parts catalog have been simplified for clarity.

5.The contents of this parts catalog are subject to change without notice.

6.Be sure to use only Yanmar genuine parts for repairs.If imitation parts are used, it may cause engine defects.

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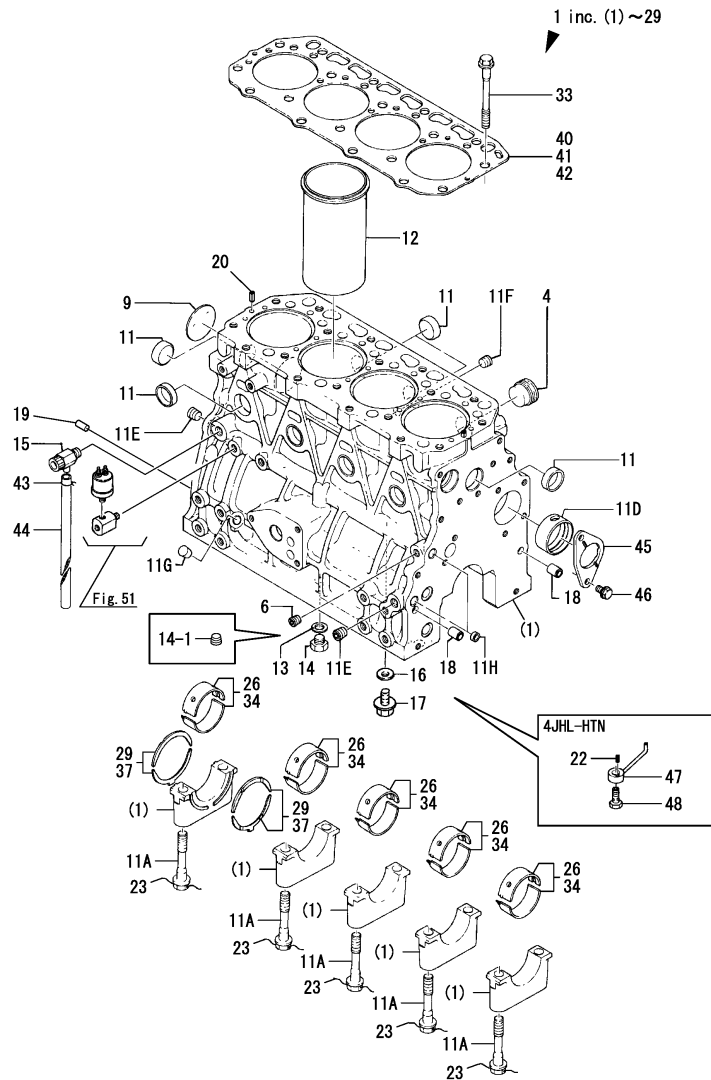
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Fig. No. Fig. Name

Fig.1. CYLINDER BLOCK



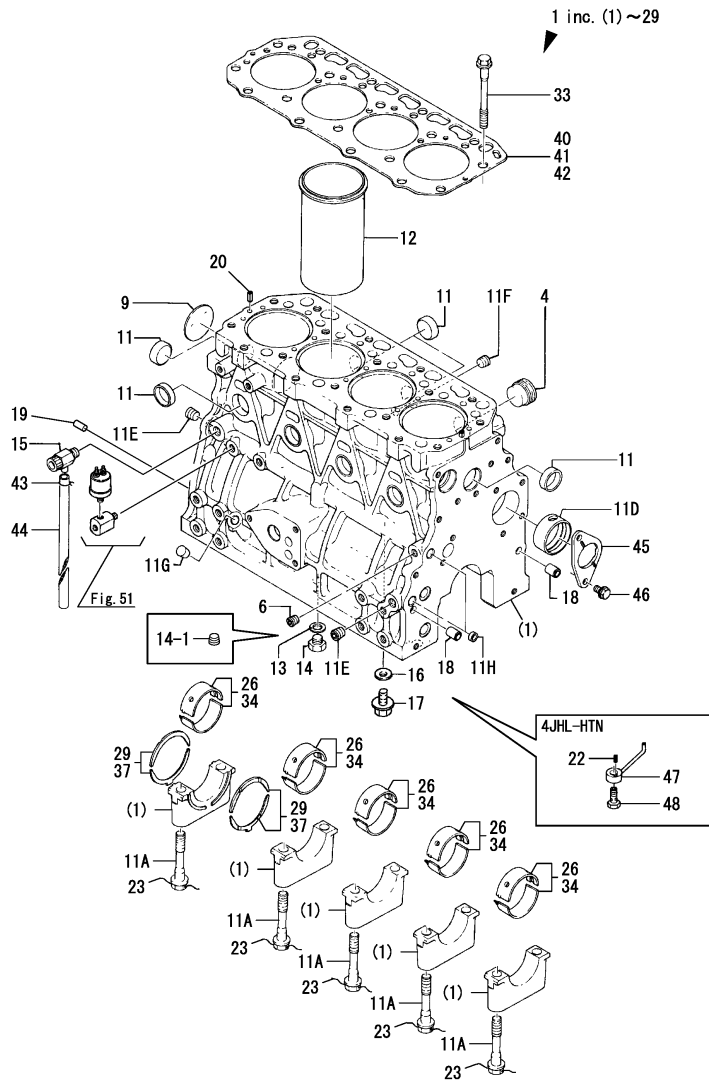
- Remarks
 (1) Under sized (U.S.=0.25) parts
 (2) Over sized (O.S.=0.25) parts
 (3) For adjustment
 (4) Standard

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729491-01560	BLOCK ASSY, CYLINDER	1	1						
1A	1	729472-01560	BLOCK ASSY, CYLINDER			1					
4	3	171051-01921	PLUG, NPTF1	1	1	1					
6	3	23876-010000	PLUG, R01	1	1	1					
9	3	27231-500000	PLUG 50	1	1	1					
9-1	3	129001-01250	PLUG, 50	1	1	1					N
		(A=E00363) (B=E00476) (C=E00324)									
11	3	27241-300000	PLUG 30	8	8	8					
11A	3	129491-02020	BOLT	10	10	10					
11A-1	3	129150-02020	BOLT, METAL CAP	10	10	10					N
		(A=E00108) (B=E00101) (C=E00105)									
11D	3	129795-02411	BUSH, CAMSHAFT	1	1	1					
11D-1	3	129795-02412	BUSH, CAMSHAFT	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
11E	2	124160-01910	PLUG, PT1/4	2	2	2					
11F	2	23876-030000	PLUG, R03	1	1	1					
11G	2	27225-100140	PLUG, 10X14	1	1	1					
11G-1	2	119309-01810	PLUG	1	1	1					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
11G-2	2	124976-34850	CAP	1	1	1					N
		(A=E00108) (B=E00101) (C=E00105)									
11H	2	27241-120000	PLUG, 12	2	2	2					
12	2	129472-01100	SLEEVE, CYLINDER	4	4	4					
13	2	23414-120000	GASKET, 12X1.0	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
14	2	23887-120002	PLUG, 12	1	1	1					
14-1	2	124160-01910	PLUG, PT1/4	1	1	1					N
		(A=E00108) (B=E00101) (C=E00105)									
15	2	128371-01800	COCK ASSY, 1/4	1	1	1					
16	2	23414-080000	GASKET, 8X1.0	4	4						
17	2	26106-080122	BOLT, M8X 12 PLATED	4	4						
18	2	129795-01950	PIPE, KNOCK L=18	2	2	2					
19	2	22312-080160	PIN, PARALLEL M8X16	2	2	2					
20	2	22351-060012	PIN, SPRING 6.0X12	2	2	2					
22	2	22351-030010	PIN, SPRING 3.0X10								4
23	2	22451-160000	WIRE, 1.6	5	5	5					Z
		(A=E00108) (B=E00101) (C=E00105)									
26	2	729150-02800	BEARING, MAIN	5	5	5					
26-1	2	129690-02800	BEARING, MAIN	5	5	5					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
29	2	729150-02930	BEARING, THRUST	2	2	2					
29-1	2	129150-02931	BEARING, THRUST	2	2	2					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
33	1	129150-01200	BOLT, HEAD	18	18	18					
34	1	129150-02870	BEARING, 0.25 US	5	5	5					1
34-1	1	129690-02870	BEARING, 0.25 US	5	5	5					R 1
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
37	1	129150-02940	BEARING, THRUST 0.25	1	1	1					2
37-1	1	129150-02941	BEARING, THRUST 0.25	1	1	1					N 2
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
40	1	129553-01350	GASKET, HEAD T=1.4	1	1	1					3

Fig.1. CYLINDER BLOCK

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

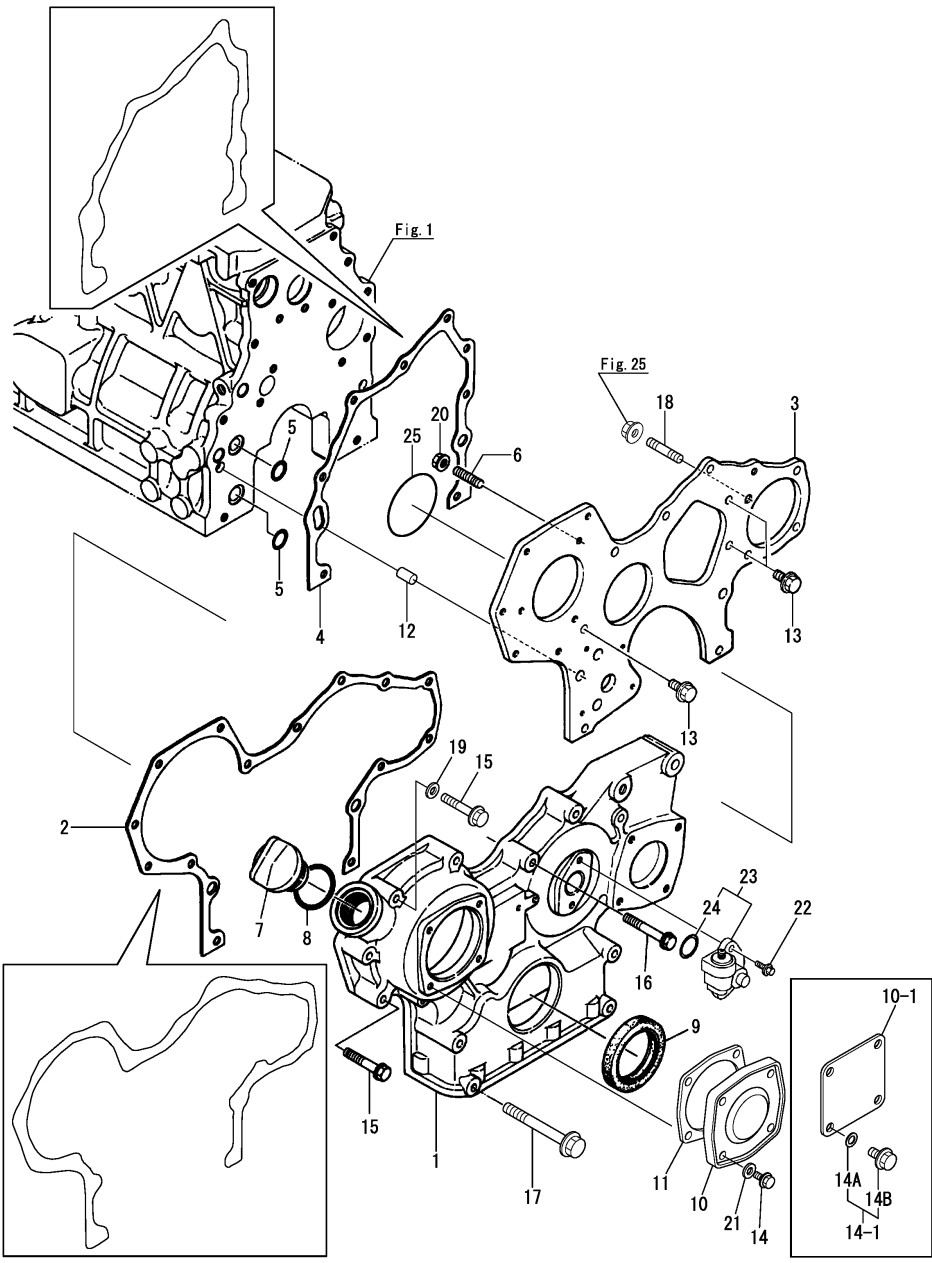
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
41	1	129553-01340	GASKET, HEAD T=1.3	1	1	1					3
42	1	129491-01360	GASKET, HEAD T=1.5	1	1	1					4
43	1	124460-77680	RETAINER	1	1	1					
44	1	23061-070300	PIPE, 7X 300	1	1	1					
45	1	129150-02450	BEARING, THRUST	1	1	1					
46	1	26106-080162	BOLT, M8X 16 PLATED	2	2	2					
46-1	1	26106-080142	BOLT, M8X 14 PLATED	2	2	2					N
		(A=E00329) (B=*1996.06) (C=*1996.06)									
47	1	129553-39650	NOZZLE								4
48	1	23857-030000	BOLT, JOINT 3								4

Remarks
 (1)Under sized(U.S.=0.25)parts
 (2)Over sized(O.S.=0.25)parts
 (3)For adjustment
 (4)Standard

Fig.2. GEAR HOUSING



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-01500	CASE, GEAR	1	1	1					
1-1	1	129470-01501	CASE, GEAR	1	1	1					N
		(A=*1987.10) (B=*1987.10) (C=*1987.10)									
1-2	1	129198-01510	CASE, GEAR	1	1	1					S 1
		(A=E00108) (B=E00101) (C=E00105)									
2	1	129150-01510	GASKET, GEAR CASE	1	1	1					
2-1	1	129470-01510	GASKET, GEAR CASE	1	1	1					R
		(A=*1988.10) (B=*1988.10) (C=*1988.10)									
2-2	1	129470-01510	GASKET, GEAR CASE	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
3	1	129150-01520	FLANGE, GEAR CASE	1	1	1					
3-1	1	129100-01520	FLANGE, GEAR CASE	1	1	1					R
		(A=*1993.01) (B=*1993.01) (C=*1993.01)									
4	1	129150-01530	GASKET, GEAR CASE	1	1	1					
4-1	1	129470-01530	GASKET	1	1	1					R
		(A=*1988.10) (B=*1988.10) (C=*1988.10)									
4-2	1	129470-01531	GASKET	1	1	1					R
		(A=*1991.12) (B=*1991.12) (C=*1991.12)									
4-3	1	129470-01531	GASKET	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
5	1	129470-01550	O-RING	2	2	2					
5-1	1	24311-000160	O-RING, 1AP16.0	2	2	2					N
		(A=E00108) (B=E00101) (C=E00105)									
6	1	121450-01560	STUD, M8X22	3	3	3					
6-1	1	119802-01561	STUD, M8X25	3	3	3					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
7	1	124160-01751	COVER, FILLER	1	1	1					
8	1	24311-000320	O-RING, 1AP32.0	1	1	1					
9	1	129795-01800	SEAL, OIL	1	1	1					
10	1	129150-01870	COVER	1	1	1					
10-1	1	124240-01871	COVER	1	1	1					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
11	1	129150-01880	GASKET	1	1	1					
11-1	1	129470-01880	GASKET, GEAR CASE	1	1	1					R
		(A=*1988.10) (B=*1988.10) (C=*1988.10)									
11-2	1	129150-01881	GASKET	1	1	1					R
		(A=*1991.03) (B=*1991.03) (C=*1991.03)									
11-3	1	129150-01881	GASKET	1	1	1					Z
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
12	1	129795-01950	PIPE, KNOCK L=18	2	2	2					
13	1	26106-080162	BOLT, M8X 16 PLATED	3	3	3					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
14	1	26106-080122	BOLT, M8X 12 PLATED	4	4	4					
14-1	1	124550-01590	BOLT, M8X16	4	4	4					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
14A	2	22190-080002	WASHER, SEAL 8	4	4	4					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
14B	2	26106-080162	BOLT, M8X 16 PLATED	4	4	4					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
15	1	26106-080452	BOLT, M8X 45 PLATED	6	6	6					
16	1	26106-080552	BOLT, M8X 55 PLATED	3	3	3					

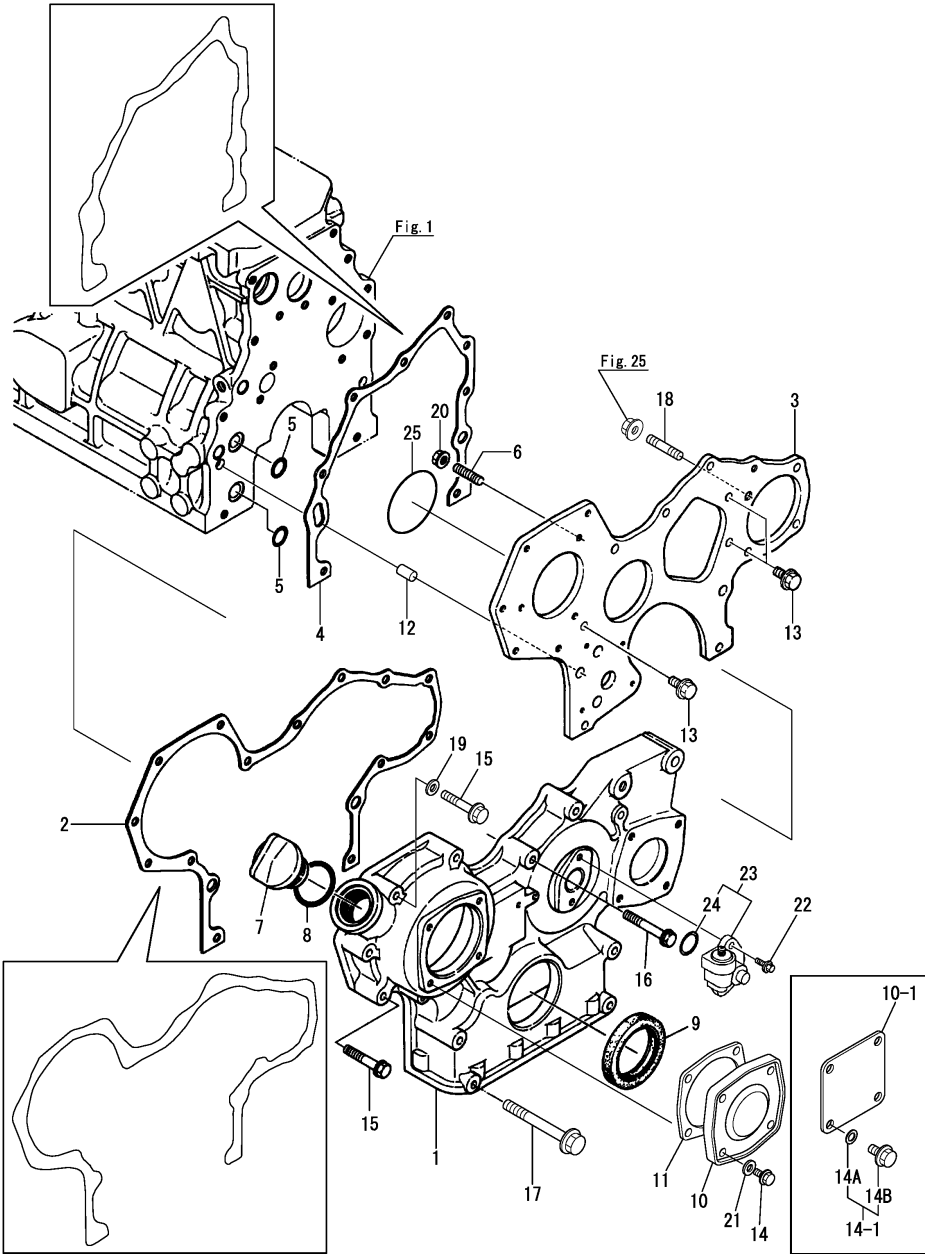
Remarks
(1)It is compatible by changing the gasket of No.2 into a liquefied gasket.

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

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

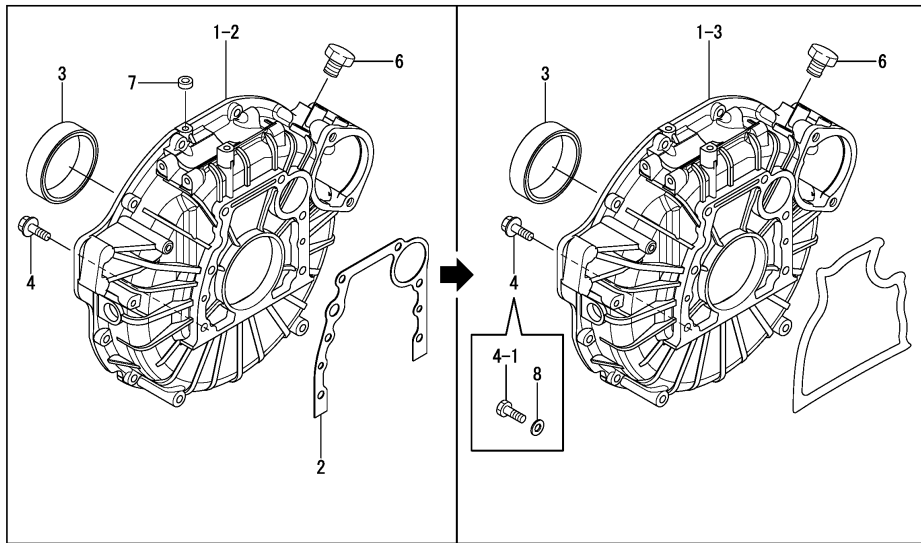
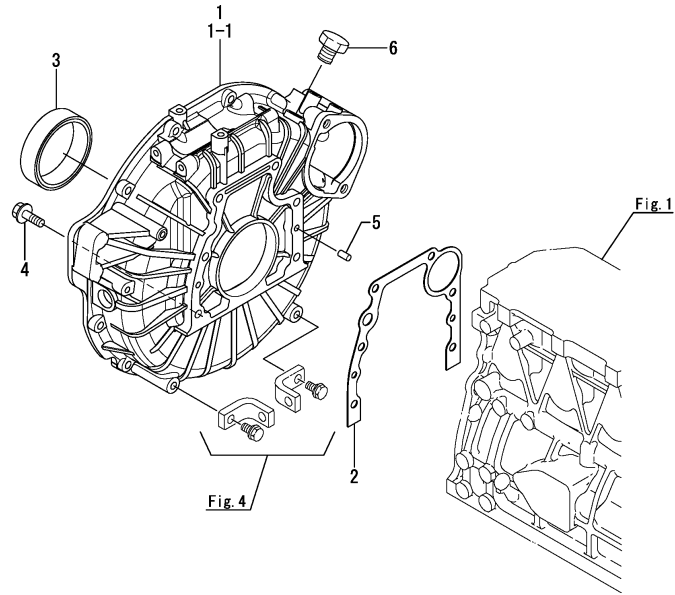


No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
16-1	1	26106-080552 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	BOLT, M8X 55 PLATED	1	1	1					K	
16-2	1	26106-080552	BOLT, M8X 55 PLATED	3	3	3					K	
17	1	26106-080852 (A=E00108) (B=E00101) (C=E00105)	BOLT, M8X 85 PLATED	4	4	4						
18	1	26216-080182	STUD, M8X 18	1	1	1						
18-1	1	121450-01560 (A=E00108) (B=E00101) (C=E00105)	STUD, M8X22	1	1	1					N	
18-2	1	119802-01561	STUD, M8X25	1	1	1					R	
19	1	22117-080000 (A=*1987.10) (B=*1987.10) (C=*1987.10)	WASHER, 8	1	1	1					Z	
20	1	26366-080002	NUT, M8	3	3	3						
20-1	1	26306-080002 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	NUT, M8	3	3	3					N	
21	1	23414-080000	GASKET, 8X1.0	4	4	4						
21-1	1	22190-080002 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	WASHER, SEAL 8	4	4	4					R	
21-2	1	22190-080002 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	WASHER, SEAL 8	4	4	4					Z	
22	1	26106-060162	BOLT, M6X 16 PLATED	2	2	2						
23	1	129150-91400	GEAR	1	1	1						
24	2	24341-000240	O-RING, 1AS24.0	1	1	1						
25	1	121850-51960	O-RING	1	1	1					W	
(A=FROM 1ST) (B=FROM 1ST) (C=FROM 1ST)												

Remarks

(1)It is compatible by changing the gasket of No.2 into a liquefied gasket.

Fig.3. FLYWHEEL HOUSING



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

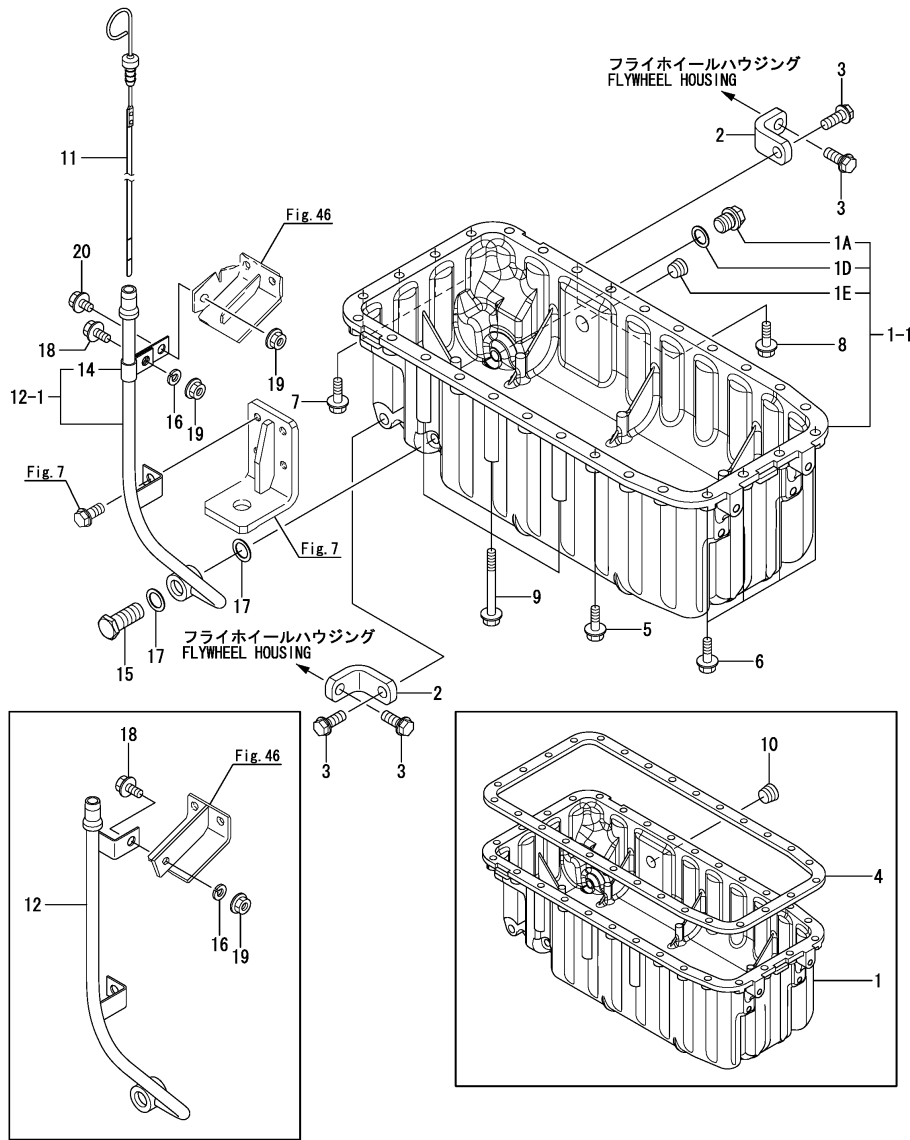
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-01600	HOUSING, FLYWHEEL	1	1	1					
1-1	1	129400-01601	HOUSING, FLYWHEEL	1	1	1					R
		(A=E00332) (B=*1996.07) (C=*1996.07)									
1-2	1	129673-01600	HOUSING, FLYWHEEL	1	1	1					S 1
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
1-3	1	129673-01620	HOUSING, FLYWHEEL	1	1	1					S 2
		(A=E00108) (B=E00101) (C=E00105)									
2	1	129100-01620	GASKET	1	1	1					
2-1	1	129470-01620	GASKET	1	1	1					R
		(A=*1988.10) (B=*1988.10) (C=*1988.10)									
2-2	1	129470-01620	GASKET	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
3	1	129795-01780	SEAL, OIL	1	1	1					
4	1	26106-100302	BOLT, M10X 30 PLATED	6	6	6					
4-1	1	26206-100302	BOLT, M10X 30 PLATED	6	6	6					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
5	1	22312-080160	PIN, PARALLEL M8X16	2	2	2					Z
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
6	1	23887-180002	PLUG, 18	1	1	1					
7	1	106500-44810	SPACER	1	1	1					W 1
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
7-1	1	106500-44810	SPACER	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
8	1	22137-100000	WASHER, 10	6	6	6					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									

Remarks

- (1) Interchangeable by simultaneous replacement with No.1-2 and 7.
- (2) It is compatible by changing the gasket of No.2 into a liquefied gasket.

Fig.4. LUB. OIL SUMP



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-01700	SUMP, OIL	1	1	1					
1-1	1	129693-01700	SUMP, OIL	1	1	1					S 1
		(A=E00108) (B=E00101) (C=E00105)									
1A	2	105425-01690	PLUG, 16	2	2	2					W
		(A=E00108) (B=E00101) (C=E00105)									
1D	2	22190-160002	WASHER, SEAL 16	2	2	2					W
		(A=E00108) (B=E00101) (C=E00105)									
1E	2	23875-030000	PLUG, R03	1	1	1					W
		(A=E00108) (B=E00101) (C=E00105)									
2	1	129470-01710	BRACKET	2	2	2					
3	1	26106-100252	BOLT, M10X 25 PLATED	4	4	4					
4	1	129400-01750	GASKET, OIL SUMP	1	1	1					
4-1	1	129470-01750	GASKET, OIL SUMP	1	1	1					R
		(A=*1988.10) (B=*1988.10) (C=*1988.10)									
4-2	1	129470-01750	GASKET, OIL SUMP	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
5	1	26106-080252	BOLT, M8X 25 PLATED	13	13	13					
6	1	26106-080252	BOLT, M8X 25 PLATED	6	6	6					
7	1	26106-080252	BOLT, M8X 25 PLATED	4	4	4					
8	1	26106-080402	BOLT, M8X 40 PLATED	2	2	2					
8-1	1	26106-080452	BOLT, M8X 45 PLATED	2	2	2					N
		(A=E00108) (B=E00101) (C=E00105)									
9	1	26106-080702	BOLT, M8X 70 PLATED	3	3	3					
10	1	23876-030000	PLUG, R03	1							Z
		(A=E00108)									
11	1	129470-34850	DIPSTICK, OIL	1	1	1					
12	1	129470-34860	GUIDE, DIPSTICK	1	1	1					
12-1	1	129590-34860	GUIDE, DIPSTICK	1	1	1					S 2
		(A=*1988.06) (B=*1988.06) (C=*1988.06)									
12-2	1	129590-34880	GUIDE ASSY, DIPSTICK	1	1	1					R
		(A=*1991.02) (B=*1991.02) (C=*1991.02)									
14	2	129590-34870	RETAINER	1	1	1					W
		(A=*1991.02) (B=*1991.02) (C=*1991.02)									
15	1	104214-39720	BOLT	1	1	1					
16	1	22217-080000	WASHER, SPRING 8	1	1	1					
17	1	23414-160000	GASKET, 16X1.0	2	2	2					
18	1	26106-080162	BOLT, M8X 16 PLATED	1	1	1					
19	1	26366-080002	NUT, M8	1	1	1					
19-1	1	26366-080002	NUT, M8	2	2	2					K
		(A=*1988.06) (B=*1988.06) (C=*1988.06)									
19-2	1	26306-080002	NUT, M8	2	2	2					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
20	1	26106-080122	BOLT, M8X 12 PLATED	1	1	1					W
		(A=*1988.06) (B=*1988.06) (C=*1988.06)									

Remarks

- (1) It is compatible by changing the gasket of No.4 into a liquefied gasket.
- (2) Interchangeable by simultaneous replacement with Fig.46 No.27-1.

Fig.5. BREATHER

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
7	1	23000-016000	CLAMP, 16	1	1	1					
7-1	1	129301-03660	CLAMP 15	1	1	1					R
		(A=*1990.09)	(B=*1990.09)	(C=*1990.09)							
8	1	23000-025000	CLAMP, 25	1	1	1					
8-1	1	129410-03990	CLIP,HOSE 21.5	1	1	1					R
		(A=*1990.09)	(B=*1990.09)	(C=*1990.09)							
9	1	23297-160081	CLAMP, A16X 8	1	1	1					Z
		(A=E00108)	(B=E00101)	(C=E00105)							
10	1	129470-03090	PIPE, BREATHER	1							
11	1	129472-03090	PIPE, BREATHER		1	1					

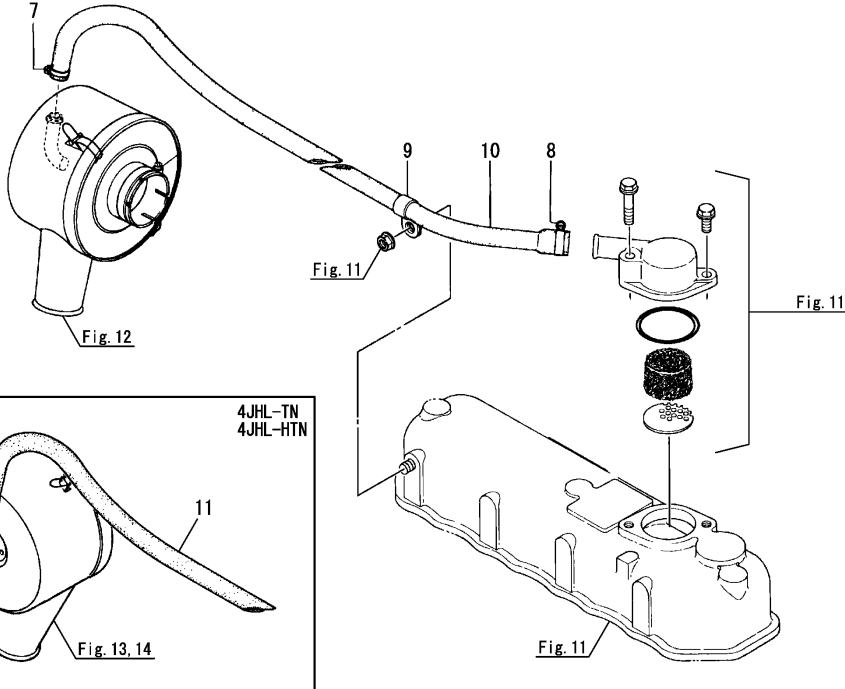
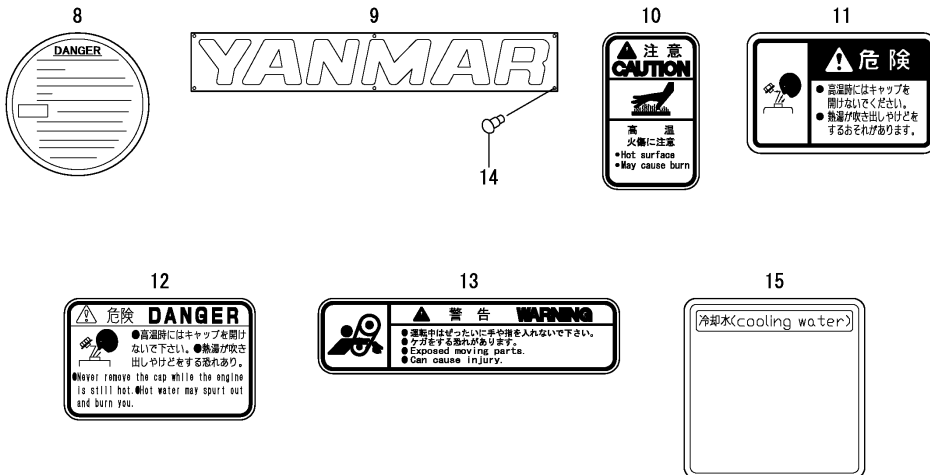
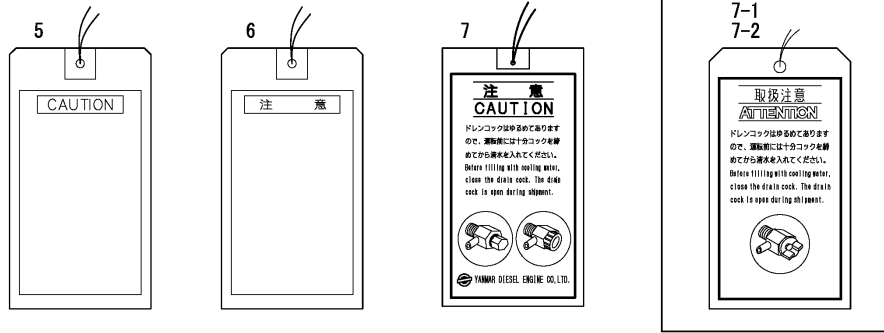
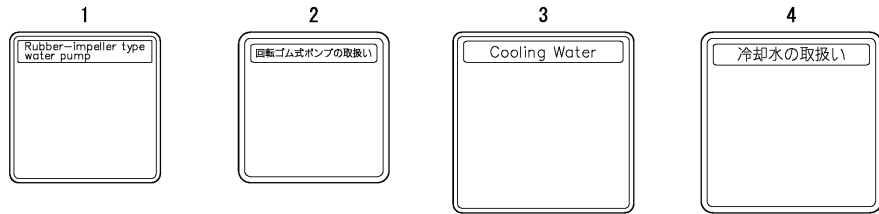


Fig.6. LABEL

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

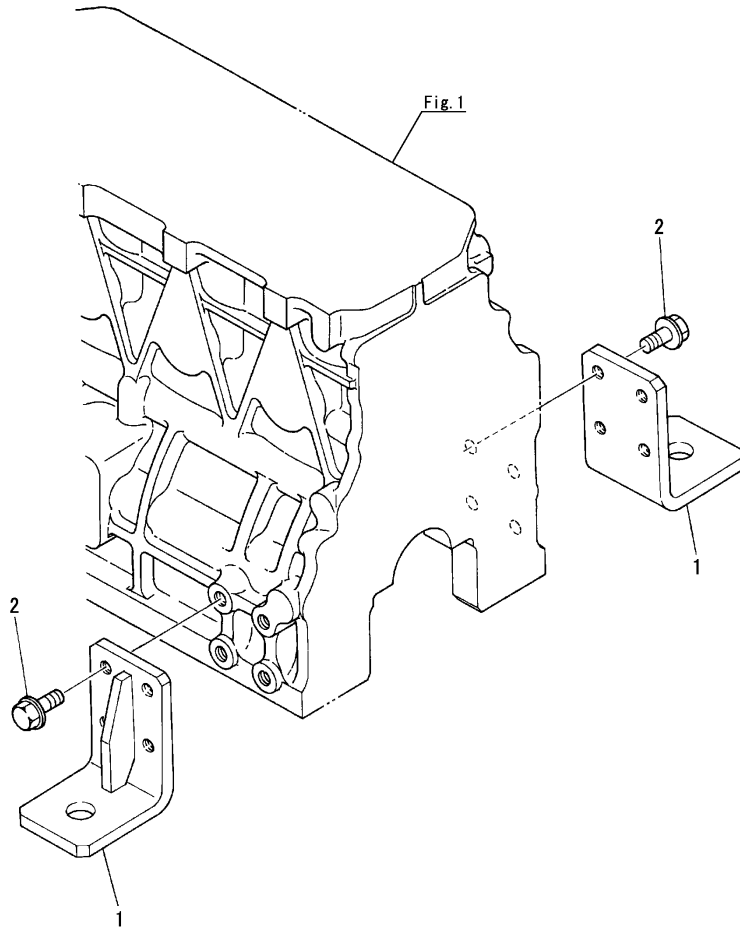


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	135665-07210	LABEL, WATER PUMP	1	1	1					
2	1	135665-07200	LABEL, CAUTION (C=E00285)			1					Z
3	1	127611-07350	LABEL (A=*1989.08) (B=*1989.08)	1	1						Z
4	1	123682-07350	LABEL (C=*1989.08)			1					Z
5	1	126630-07370	LABEL	1	1	1					
6	1	126630-07360	LABEL, TANK CAUTION (C=E00285)			1					Z
7	1	123682-07850	LABEL, CAUTION	1	1	1					
7-1	1	123682-07851	LABEL, CAUTION (A=E00317) (B=E00412) (C=E00285)	1	1	1					N
7-2	1	123682-07852	LABEL, CAUTION (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	1	1	1					N
8	1	120445-44620	LABEL, CAUTION	1	1	1					
9	1	42220-008960	LABEL, YANMAR			1					
10	1	128296-07300	LABEL, DANGER	1	1	1					W
11	1	128296-07250	LABEL, CAUTION (A=E00340) (B=*1996.12) (C=*1996.12)			1					W
12	1	128296-07260	LABEL, DANGER (A=E00340) (B=*1996.12) (C=*1996.12)	1	1	1					W
13	1	128296-07360	LABEL, CAUTION (A=E00340) (B=*1996.12) (C=*1996.12)	1	1	1					W
14	1	102210-07990	RIVET			6					
15	1	129198-07350	LABEL, TANK	1	1	1					

Fig.7. ENGINE BRACKET

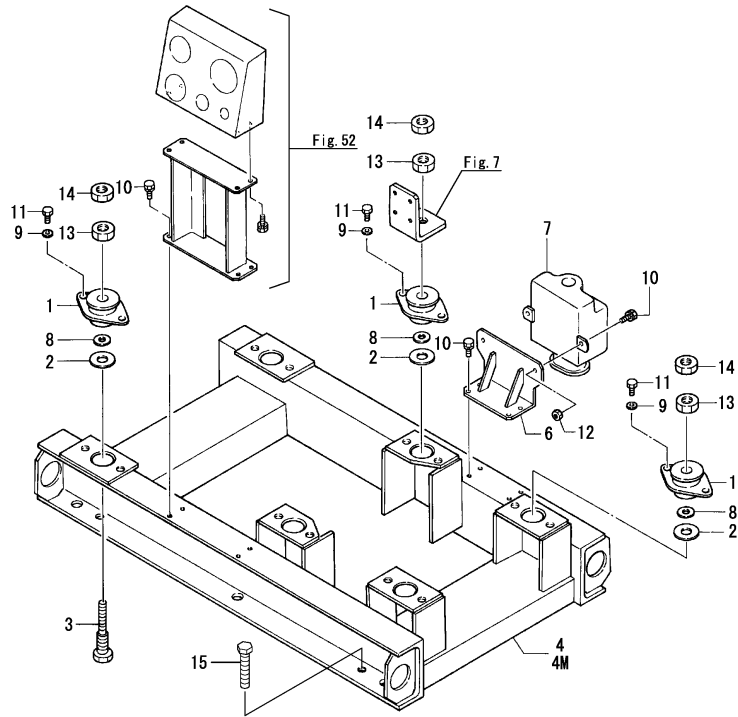
(A)=4JHL-N
 (B)=4JHL-TN
 (C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-08100	FOOT, MOUNTING	4	4	4					
2	1	26106-100202	BOLT, M10X 20 PLATED	16	16	16					

Fig.8. COMMON BED



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	125320-08600	MOUNT, ENGINE	6	6	6					
2	1	126480-08610	STOPPER	6	6	6					
3	1	126480-08620	BOLT	6	6	6					
4	1	313294-00601	COMMON BED	1	1	1					1
4M	1	313274-07180	COMMON-BED	1	1	1					2
6	1	42150-503220	BRACKET	1	1	1					
6-1	1	42150-503860	BRACKET	1	1	1					N
		(A=*1986.07) (B=*1986.07) (C=*1986.07)									
7	1	46150-555180	BOX	1	1	1					3
7-1	1	46150-514480	BOX, JOINT	1	1	1					S 4
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
8	1	126480-08660	WASHER	6	6	6					
9	1	22137-100000	WASHER, 10	12	12	12					
10	1	26013-080162	BOLT, M8X 16	14	14	14					
10-1	1	26013-080162	BOLT, M8X 16	10	10	10					K
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
11	1	26116-100162	BOLT, M10X 16 PLATED	12	12	12					
12	1	26716-080002	NUT, M8	2	2	2					
13	1	26716-140002	NUT, M14	6	6	6					
14	1	26756-140002	NUT, LOCK M14	6	6	6					
15	1	45521-002930	BOLT	4	4	4					

Remarks

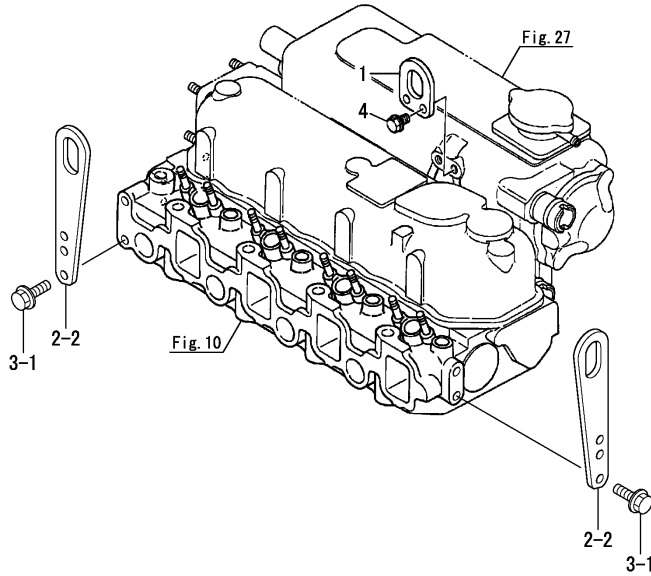
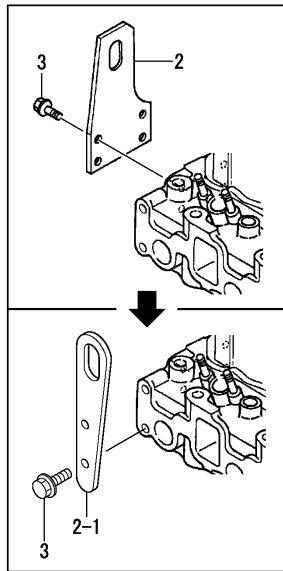
- (1)For Tokyo Electric Industry generator(Optional)
- (2)For Taiyo Electric generator
- (3)Outlet side cable gland size: 20c Applicable cable: MPYC-5
- (4)Outlet side cable gland size: 20a Applicable cable: MPYC-4

Fig.9. ENGINE LIFTER

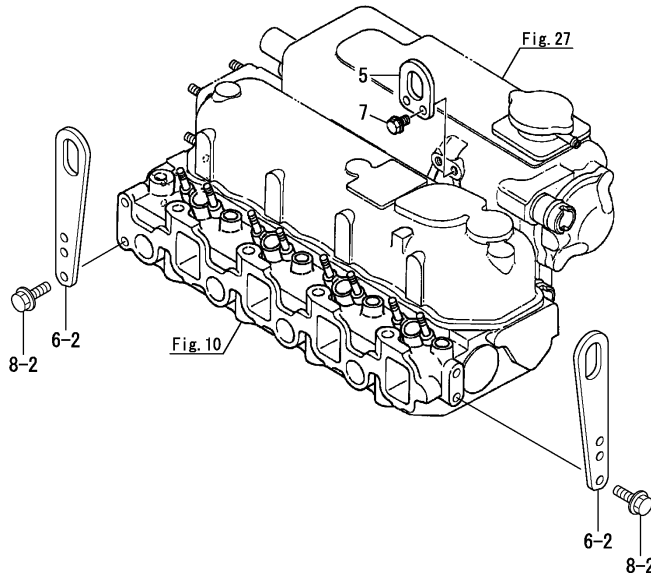
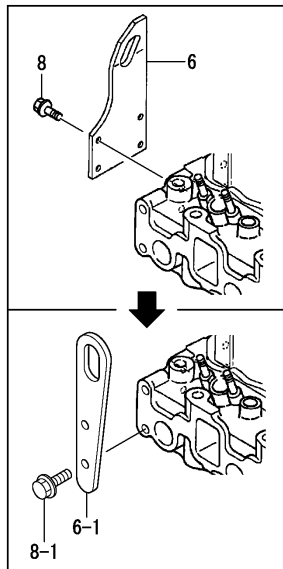
(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

4JHL-N
4JHL-TN

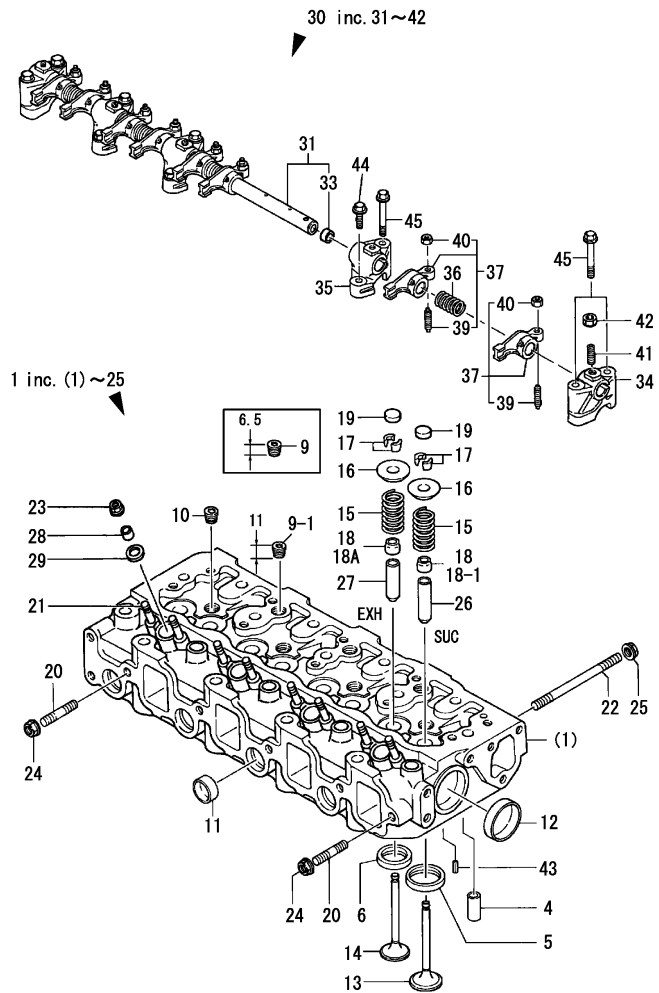


4JHL-HTN



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-07230	LIFTER	1	1						
2	1	129475-07230	LIFTER	1	1						
2-1	1	129171-07901	LIFTER	1	1						S
2-2	1	(A=E00355)	(B=E00460)	LIFTER	2	2					N
		(A=E00108)	(B=E00101)								
3	1	26106-080142	BOLT, M8X 14 PLATED	2	2						
3-1	1	26106-080162	BOLT, M8X 16 PLATED	4	4						N
		(A=E00108)	(B=E00101)								
4	1	26106-080162	BOLT, M8X 16 PLATED	2	2						
5	1	129470-07230	LIFTER							1	
6	1	129496-07230	LIFTER							1	
6-1	1	129171-07901	LIFTER							1	S
		(C=E00309)									
6-2	1	129900-07900	LIFTER							2	N
		(C=E00105)									
7	1	26106-080142	BOLT, M8X 14 PLATED							2	
7-1	1	26106-080162	BOLT, M8X 16 PLATED							2	N
		(C=E00105)									
8	1	26106-080162	BOLT, M8X 16 PLATED							4	
8-1	1	26106-080142	BOLT, M8X 14 PLATED							2	S
		(C=E00309)									
8-2	1	26106-080162	BOLT, M8X 16 PLATED							4	N
		(C=E00105)									

Fig.10. CYLINDER HEAD



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

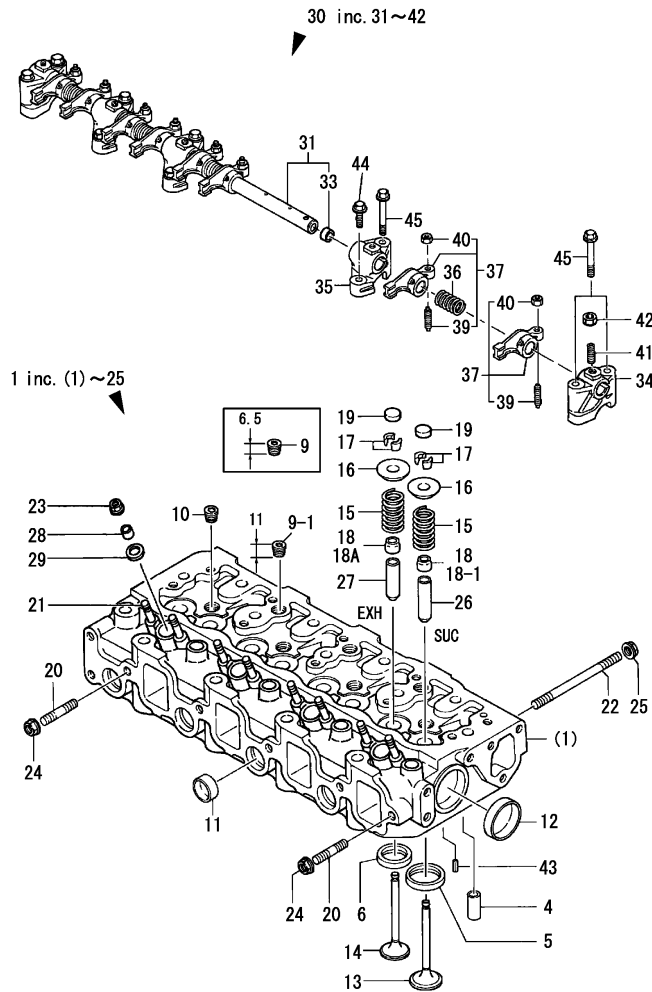
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729491-11700	HEAD ASSY, CYLINDER	1	1	1					
1-1	1	729470-11701	HEAD ASSY, CYLINDER	1	1	1					R
		(A=*1987.09) (B=*1987.09) (C=*1987.09)									
4	3	129150-11050	PIECE	4	4	4					
5	3	129470-11080	SEAT, INTAKE VALVE	4	4	4					
5-1	3	129470-11850	SEAT, EXHAUST VALVE	4	4	4					R
		(A=*1987.09) (B=*1987.09) (C=*1987.09)									
5-2	3	129470-11080	SEAT, INTAKE VALVE	4	4	4					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
6	3	129470-11090	SEAT, EXHAUST VALVE	4	4	4					
9	3	121850-11860	PLUG, PT1/4	3	3	3					
9-1	3	23876-020000	PLUG, R02	3	3	3					S
		(A=E00315) (B=*1995.09) (C=*1995.09)									
9-2	3	121850-11860	PLUG, PT1/4	3	3	3					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
10	3	23876-030000	PLUG, R03	4	4	4					
11	3	27241-220000	PLUG, 22	4	4	4					
12	3	27241-400000	PLUG, 40	2	2	2					
13	2	129100-11100	VALVE, INTAKE	4	4	4					
14	2	129100-11130	VALVE, EXHAUST	4	4	4					
15	2	129795-11120	SPRING, VALVE	8	8	8					
16	2	129795-11180	RETAINER, SPRING	8	8	8					
17	2	103338-11190	COTTER	8	8	8					
17-1	2	27310-080001	COTTER, 8	8	8	8					R
		(A=*1994.10) (B=*1994.10) (C=*1994.10)									
18	2	124460-11340	SEAL, VALVE STEM	8	8	8					
18-1	2	124460-11340	SEAL, VALVE STEM	4	4	4					K
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
18A	2	121400-11340	SEAL, VALVE STEM	4	4	4					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
19	2	104511-11370	CAP, VALVE	8	8	8					
19-1	2	129150-11370	CAP, VALVE	8	8	8					R
		(A=E00108) (B=E00101) (C=E00105)									
20	2	26216-080222	STUD, M8X 22	2	2	2					Z
		(A=E00108) (B=E00101) (C=E00105)									
21	2	26216-060202	STUD, M6X 20	8	8	8					
22	2	26216-081002	STUD, M8X100	2	2	2					
22-1	2	129693-44300	STUD	2	2	2					R
		(A=E00108) (B=E00101) (C=E00105)									
23	2	26367-060002	NUT, M6	8	8	8					
24	2	26366-080002	NUT, M8	2	2	2					Z
		(A=E00108) (B=E00101) (C=E00105)									
25	2	26366-080002	NUT, M8	2	2	2					
25-1	2	26306-080002	NUT, M8	2	2	2					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
26	1	120130-11860	GUIDE, VALVE	4	4	4					1
27	1	129150-11810	GUIDE, VALVE	4	4	4					1
28	1	119625-11870	PROTECTOR, NOZZLE	4	4	4					
29	1	119625-11880	SEAT, NOZZLE	4	4	4					
30	1	129555-11241	SHAFT ASSY, ROCKER	1	1	1					
30-1	1	129500-11240	SHAFT ASSY, ROCKER	1	1	1					R

Remarks
(1) Spare parts

Fig.10. CYLINDER HEAD

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



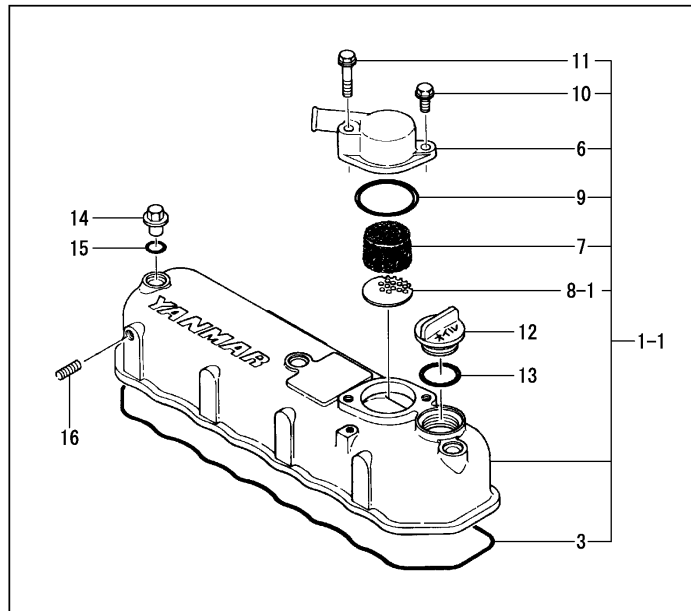
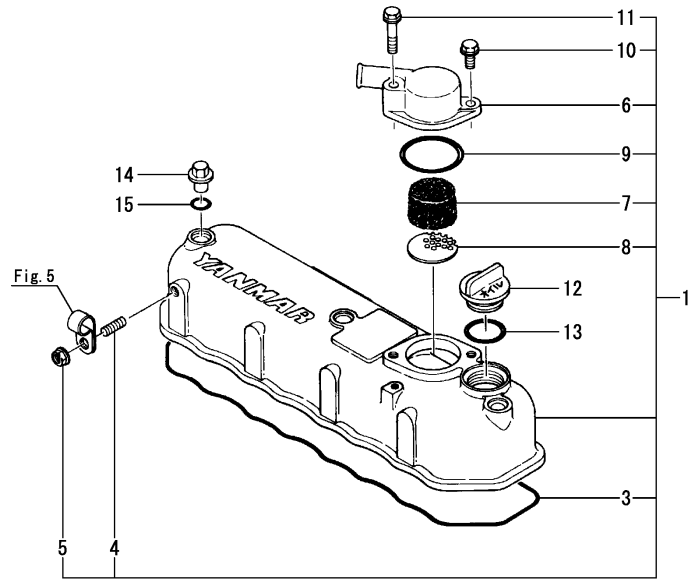
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
		(A=*1990.12)	(B=*1990.12)	(C=*1990.12)								
31	2	129550-11290	SHAFT, ROCKER ARM	1	1	1						
33	3	27241-100000	PLUG, 10	2	2	2						
34	2	129155-11260	SUPPORT, ROCKER ARM	2	2	2						
35	2	129155-11270	SUPPORT, ROCKER ARM	3	3	3						
36	2	129150-11280	SPRING	4	4	4						
37	2	729402-11650	ARM ASSY, ROCKER	8	8	8						
37-1	2	129100-11650	ARM, ROCKER	8	8	8						N
		(A=*1990.12)	(B=*1990.12)	(C=*1990.12)								
39	3	129150-11230	SCREW, VALVE ADJUST	8	8	8						
40	3	129150-11750	NUT, M8	8	8	8						
41	2	26226-080182	STUD, M8X 18	3	3	3						
41-1	2	119802-11280	STUD	3	3	3						R
		(A=EXXXXX)	(B=EXXXXX)	(C=EXXXXX)								
42	2	26756-080002	NUT, LOCK M8	3	3	3						
43	1	22351-060012	PIN, SPRING 6.0X12	2	2	2						
44	1	26106-080252	BOLT, M8X 25 PLATED	3	3	3						
45	1	26106-080502	BOLT, M8X 50 PLATED	7	7	7						

Remarks
(1) Spare parts

Fig.11. BONNET

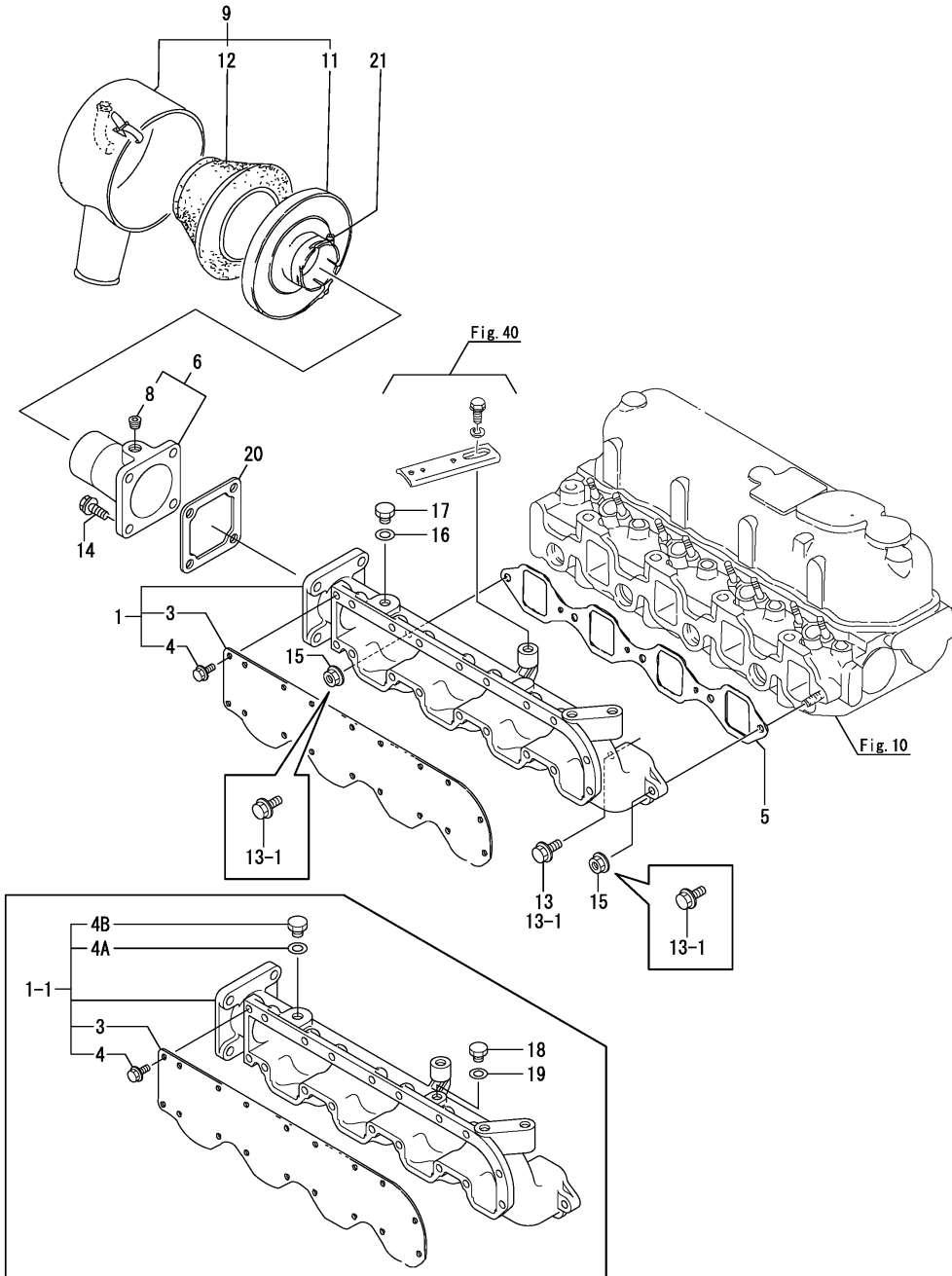
(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729470-11520	BONNET ASSY, HEAD	1	1	1					
1-1	1	129690-11350	BONNET ASSY, HEAD	1	1	1					N
		(A=E00108) (B=E00101) (C=E00105)									
3	2	129550-11310	GASKET, BONNET	1	1	1					
4	2	121850-01910	STUD, M8X12	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
5	2	26366-080002	NUT, M8	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
6	2	129470-03010	COVER, BREATHER	1	1	1					
7	2	129150-03070	BAFFLE, BREATHER	1	1	1					
8	2	121750-03080	PLATE, BAFFLE	1	1	1					
8-1	2	129150-03080	PLATE, BAFFLE	1	1	1					N
		(A=E00108) (B=E00101) (C=E00105)									
9	2	24341-000530	O-RING, 1AS53.0	1	1	1					
9-1	2	24341-000500	O-RING, 1AS50.0	1	1	1					N
		(A=*1986.07) (B=*1986.07) (C=*1986.07)									
10	2	26106-080202	BOLT, M8X 20 PLATED	1	1	1					
11	2	26106-080402	BOLT, M8X 40 PLATED	1	1	1					
12	1	124160-01751	COVER, FILLER	1	1	1					
13	1	24311-000320	O-RING, 1AP32.0	1	1	1					
14	1	124160-11360	KNOB	3	3	3					
15	1	24311-000120	O-RING, 1AP12.0	3	3	3					
16	1	121850-01910	STUD, M8X12	1	1	1					W
		(A=E00108) (B=E00101) (C=E00105)									

Fig.12. SUCTION MANIFOLD(4JHL-N)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

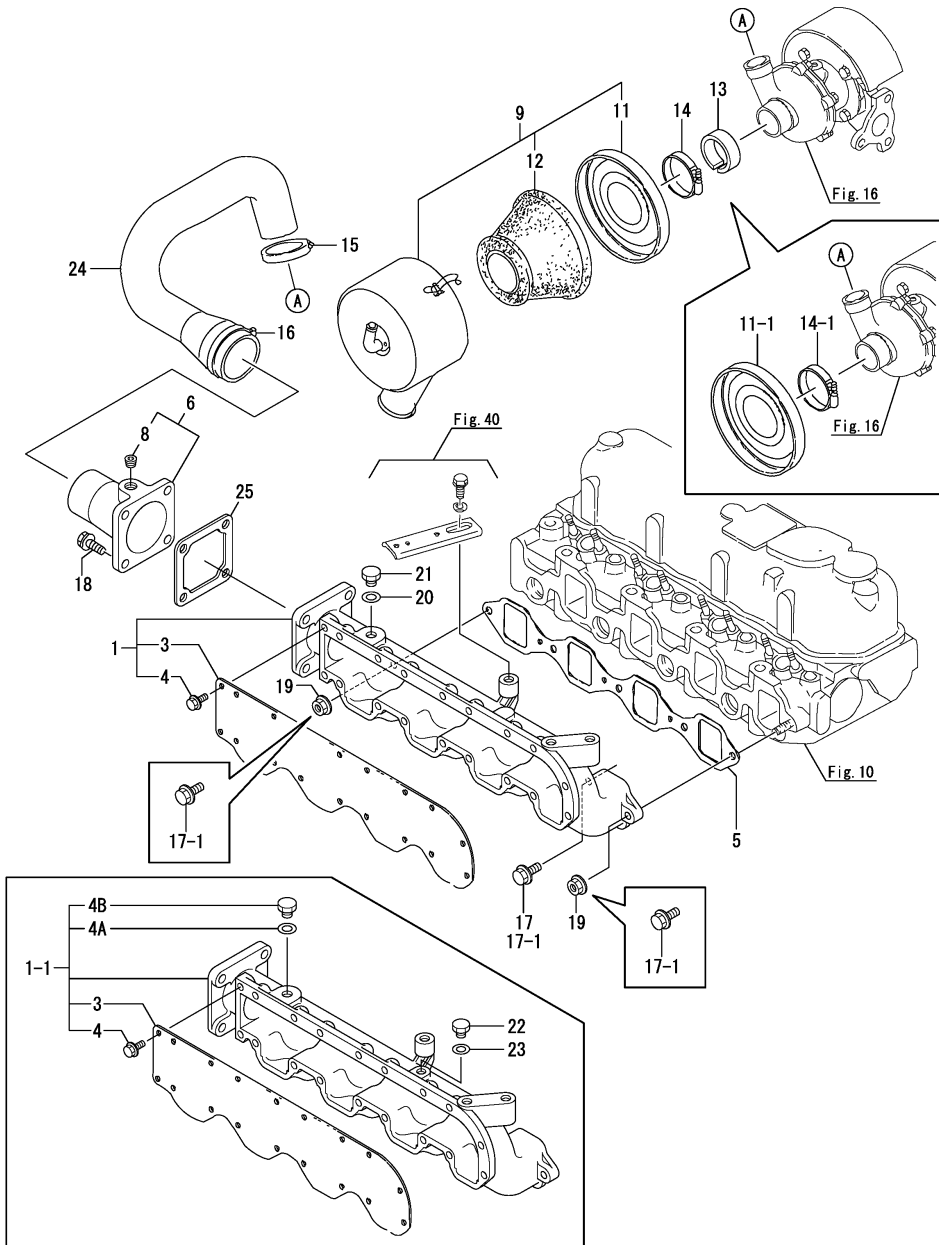
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-12100	MANIFOLD ASSY,INTAKE	1							
1-1	1	129698-12100	MANIFOLD ASSY,INTAKE	1							R
		(A=E00351)									
3	2	129470-12120	COVER, MANIFOLD	1							
4	2	26476-060142	SCREW, TAPPING M6X14	18							
4A	2	23414-100000	GASKET, 10X1.0	1							W
		(A=E00108)									
4B	2	23887-100002	PLUG, 10	1							W
		(A=E00108)									
5	1	129550-12110	GASKET, MANIFOLD	1							
5-1	1	129470-12130	GASKET, MANIFOLD	1							R
		(A=*1988.10)									
6	1	129470-12210	JOINT ASSY	1							W
		(A=*1986.11)									
8	2	23876-010000	PLUG, R01	1							W
		(A=*1986.11)									
9	1	129495-12500	SILENCER ASSY	1							
11	2	129495-12530	PLATE	1							
12	2	124770-12540	ELEMENT	1							
13	1	26106-080202	BOLT, M8X 20 PLATED	3							
13-1	1	26106-080202	BOLT, M8X 20 PLATED	5							K
		(A=E00108)									
14	1	26106-080202	BOLT, M8X 20 PLATED	4							
15	1	26366-080002	NUT, M8	2							
15-1	1	26306-080002	NUT, M8	2							N
		(A=EXXXXX)									
15-2	1	26306-080002	NUT, M8	2							Z
		(A=E00108)									
16	1	23414-100000	GASKET, 10X1.0	1							W
		(A=*1987.02)									
16-1	1	23414-100000	GASKET, 10X1.0	1							Z
		(A=E00108)									
17	1	23887-100002	PLUG, 10	1							W
		(A=*1987.02)									
17-1	1	23887-100002	PLUG, 10	1							Z
		(A=E00108)									
18	1	123482-01900	PLUG, M8-1.25	1							W
		(A=E00351)									
18-1	1	26106-080122	BOLT, M8X 12 PLATED	1							R
		(A=E00353)									
19	1	23414-080000	GASKET, 8X1.0	1							W
		(A=E00351)									
19-1	1	22190-080002	WASHER, SEAL 8	1							R
		(A=E00353)									
20	1	129150-77510	GASKET	1							
20-1	1	129470-77590	GASKET	1							R
		(A=*1988.10)									
20-2	1	129150-77511	GASKET	1							R
		(A=EXXXXX)									
21	1	23000-054000	CLAMP, 54	1							

Fig.13. SUCTION MANIFOLD(4JHL-TN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-12100	MANIFOLD ASSY,INTAKE		1						
1-1	1	129698-12100	MANIFOLD ASSY,INTAKE (B=*1998.02)		1						R
3	2	129470-12120	COVER, MANIFOLD		1						
4	2	26476-060142	SCREW, TAPPING M6X14		18						
4A	2	23414-100000	GASKET, 10X1.0 (B=E00101)		1						W
4B	2	23887-100002	PLUG, 10 (B=E00101)		1						W
5	1	129550-12110	GASKET, MANIFOLD		1						
5-1	1	129470-12130	GASKET, MANIFOLD (B=*1988.10)		1						R
6	1	129470-12210	JOINT ASSY (B=*1986.11)		1						W
8	2	23876-010000	PLUG, R01 (B=*1986.11)		1						W
9	1	129495-12500	SILENCER ASSY		1						
9-1	1	129477-12500	SILENCER ASSY (B=E00127)		1						S 1
11	2	129495-12530	PLATE		1						
11-1	2	129477-12530	PLATE (B=E00127)		1						S 1
12	2	124770-12540	ELEMENT		1						
13	1	129477-12510	SPACER (B=E00127)		1						Z
14	1	129477-12520	CLIP, HOSE 54 (B=E00127)		1						
14-1	1	23000-048000	CLAMP, 48 (B=E00127)		1						S
15	1	23000-054000	CLAMP, 54 (B=E00127)		1						
15-1	1	129477-12520	CLIP, HOSE 54 (B=E00127)		1						N
16	1	23000-060000	CLAMP, 60 (B=E00127)		1						
17	1	26106-080202	BOLT, M8X 20 PLATED (B=E00101)		3						
17-1	1	26106-080202	BOLT, M8X 20 PLATED (B=E00101)		5						K
18	1	26106-080202	BOLT, M8X 20 PLATED (B=E00101)		4						
19	1	26366-080002	NUT, M8 (B=E00101)		2						
19-1	1	26306-080002	NUT, M8 (B=E00101)		2						N
19-2	1	26306-080002	NUT, M8 (B=E00101)		2						Z
20	1	23414-100000	GASKET, 10X1.0 (B=*1987.02)		1						W
20-1	1	23414-100000	GASKET, 10X1.0 (B=E00101)		1						Z
21	1	23887-100002	PLUG, 10 (B=*1987.02)		1						W
21-1	1	23887-100002	PLUG, 10 (B=E00101)		1						Z
22	1	123482-01900	PLUG, M8-1.25 (B=*1998.02)		1						W

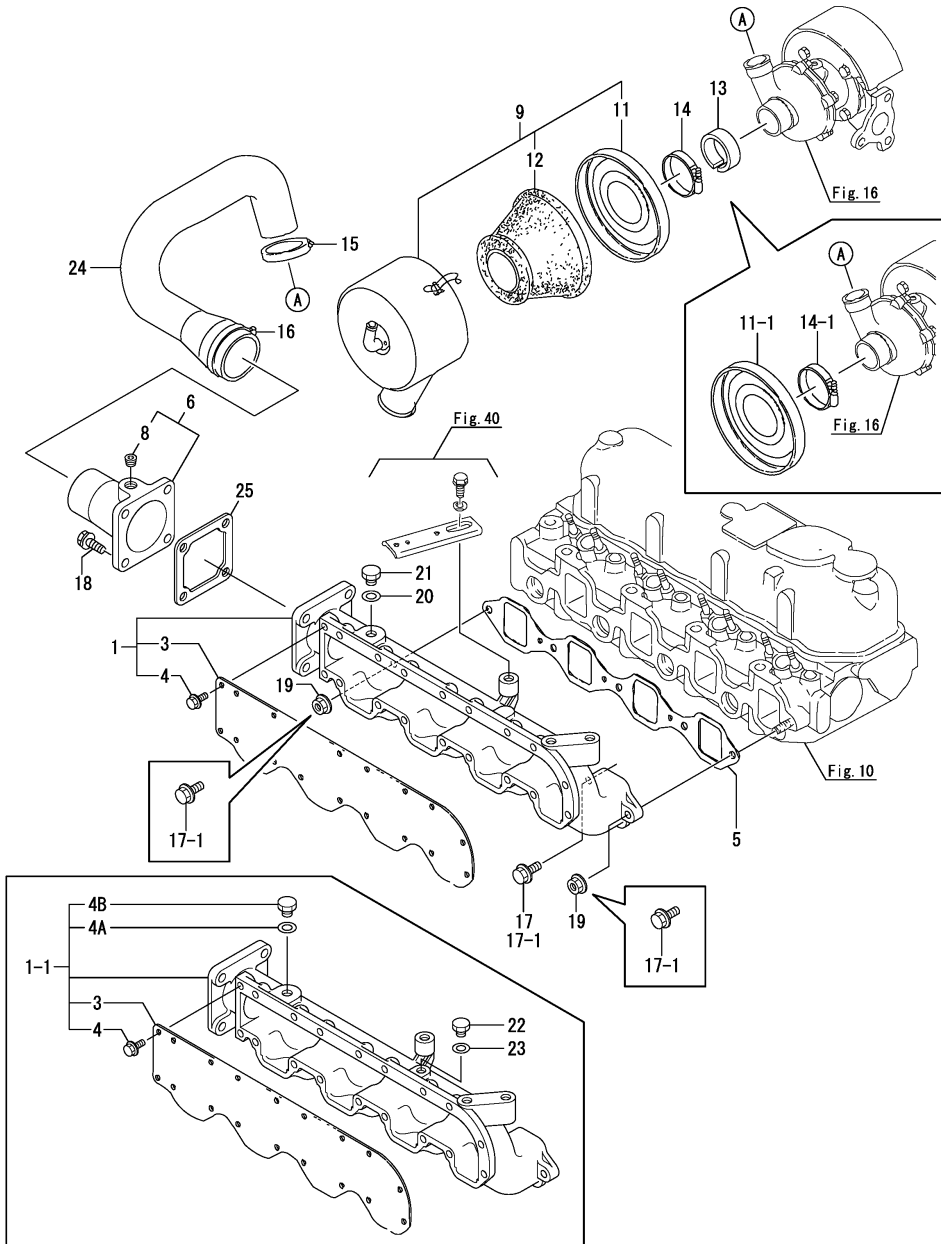
Remarks

(1)Interchangeable by simultaneous replacement with No.14-1.

Fig.13. SUCTION MANIFOLD(4JHL-TN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
22-1	1	26106-080122	BOLT, M8X 12 PLATED (B=E00459)		1						R
23	1	23414-080000	GASKET, 8X1.0 (B=*1998.02)		1						W
23-1	1	22190-080002	WASHER, SEAL 8 (B=E00459)		1						R
24	1	129477-12850	HOSE, RUBBER		1						
25	1	129150-77510	GASKET		1						
25-1	1	129470-77590	GASKET (B=*1988.10)		1						N
25-2	1	129150-77511	GASKET (B=EXXXXX)		1						R

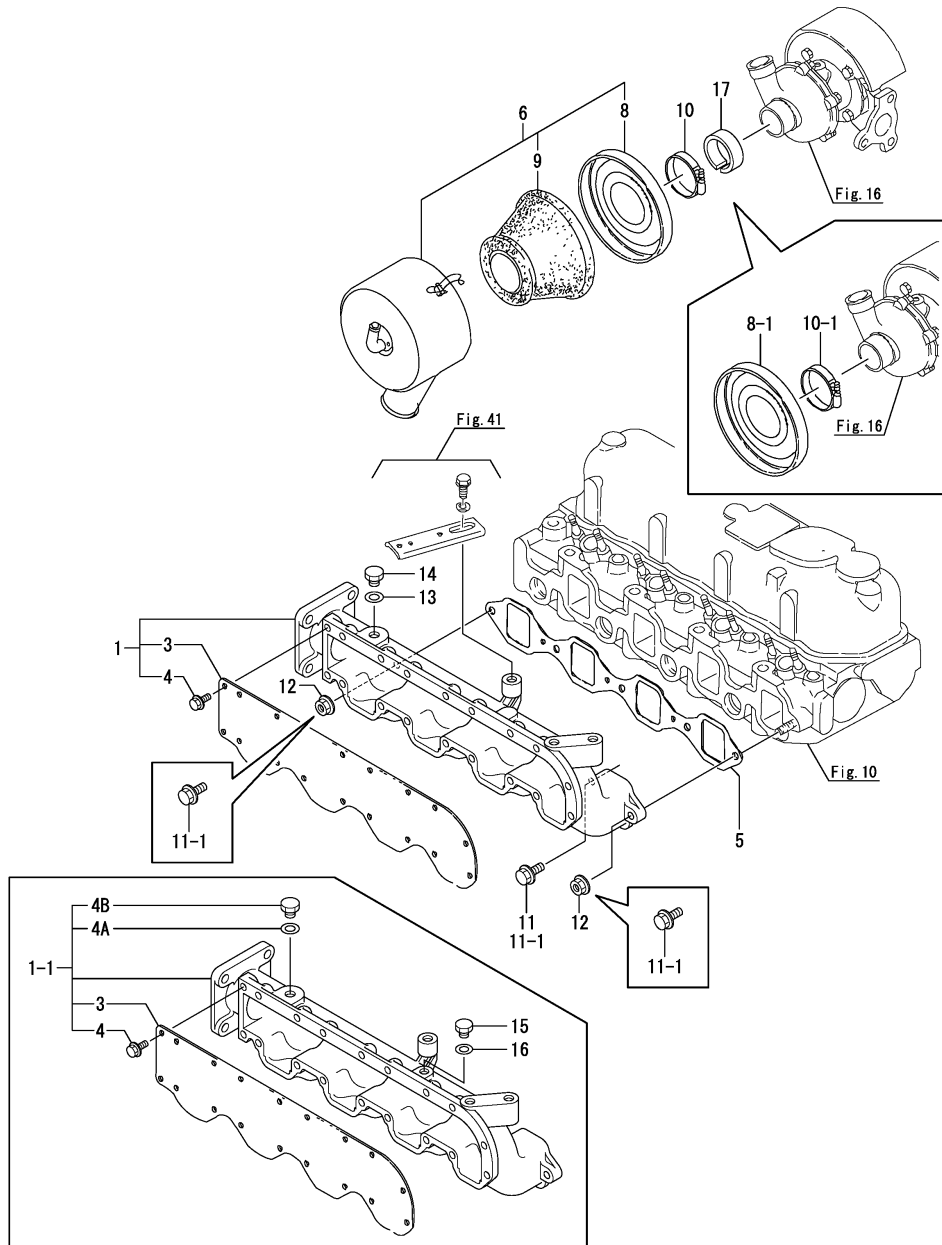
Remarks

(1)Interchangeable by simultaneous replacement with No.14-1.

Fig.14. SUCTION MANIFOLD(4JHL-HTN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-12100	MANIFOLD ASSY,INTAKE			1					
1-1	1	129698-12100	MANIFOLD ASSY,INTAKE (C=E00304)			1					R
3	2	129470-12120	COVER, MANIFOLD			1					
4	2	26476-060142	SCREW, TAPPING M6X14			18					
4A	2	23414-100000	GASKET, 10X1.0 (C=E00105)			1					W
4B	2	23887-100002	PLUG, 10 (C=E00105)			1					W
5	1	129550-12110	GASKET, MANIFOLD			1					
5-1	1	129470-12130	GASKET, MANIFOLD (C=*1988.10)			1					R
6	1	129495-12500	SILENCER ASSY			1					
6-1	1	129477-12500	SILENCER ASSY (C=*1986.10)			1					S 1
8	2	129495-12530	PLATE			1					
8-1	2	129477-12530	PLATE (C=*1986.10)			1					S 1
9	2	124770-12540	ELEMENT			1					
10	1	129477-12520	CLIP, HOSE 54			1					
10-1	1	23000-048000	CLAMP, 48 (C=*1986.10)			1					S
11	1	26106-080202	BOLT, M8X 20 PLATED			3					
11-1	1	26106-080202	BOLT, M8X 20 PLATED (C=E00105)			5					K
12	1	26366-080002	NUT, M8			2					
12-1	1	26306-080002	NUT, M8 (C=EXXXXX)			2					N
12-2	1	26306-080002	NUT, M8 (C=E00105)			2					Z
13	1	23414-100000	GASKET, 10X1.0 (C=*1987.02)			1					W
13-1	1	23414-100000	GASKET, 10X1.0 (C=E00105)			1					Z
14	1	23887-100002	PLUG, 10 (C=*1987.02)			1					W
14-1	1	23887-100002	PLUG, 10 (C=E00105)			1					Z
15	1	123482-01900	PLUG, M8-1.25 (C=E00304)			1					W
15-1	1	26106-080122	BOLT, M8X 12 PLATED (C=E00305)			1					R
16	1	23414-080000	GASKET, 8X1.0 (C=E00304)			1					W
16-1	1	22190-080002	WASHER, SEAL 8 (C=E00305)			1					R
17	1	129477-12510	SPACER (C=*1986.10)			1					Z

Remarks

(1)Interchangeable by simultaneous replacement with No.10-1.

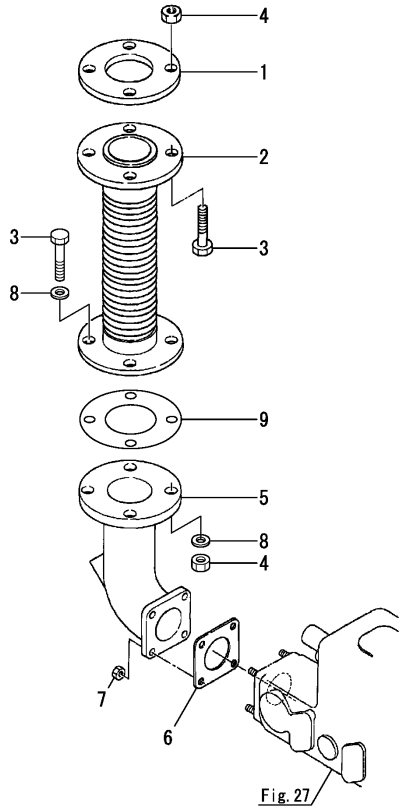
N:Old $\xrightarrow{\text{Yes}}$ New, Q:Old $\xrightarrow{\text{No}}$ New, R:Old $\xrightarrow{\text{Yes}}$ New, S:Old $\xrightarrow{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.15. EXHAUST BEND

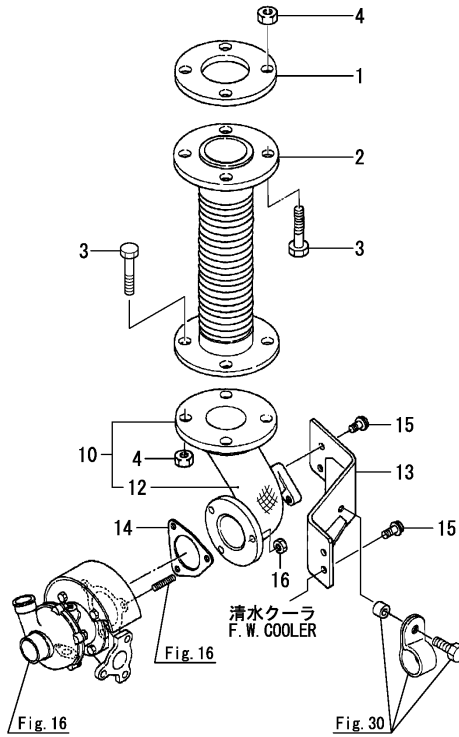
(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

4JHL-N



4JHL-TN
4JHL-HTN

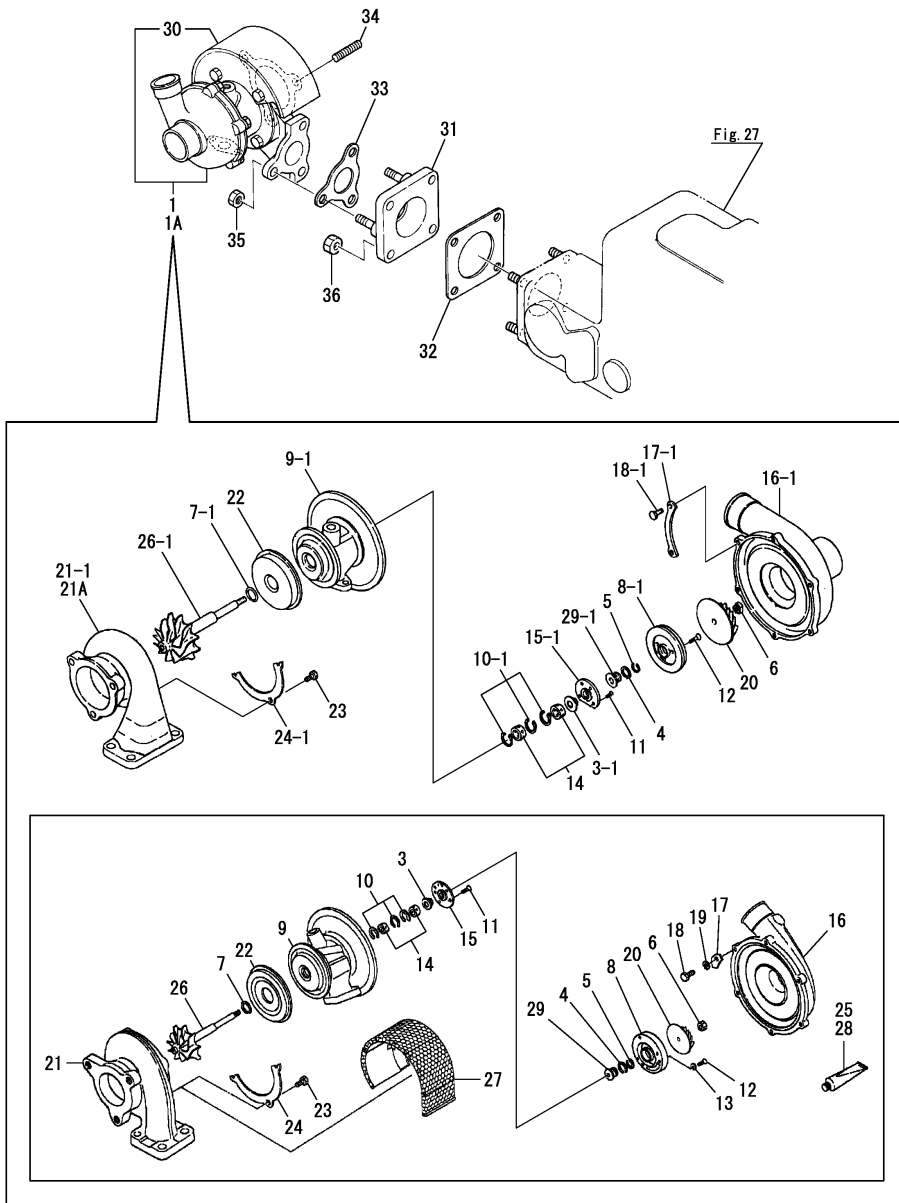


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	23211-050061	FLANGE, 5K 50	1	1	1					
2	1	43720-500950	JOINT, FLEXBLE 50A	1	1	1					
3	1	26203-120452	BOLT, M12X 45 PLATED	8	8	8					
4	1	26703-120002	NUT, M12	8	8	8					
5	1	129491-13070	BEND, EXHAUST	1							
5-1	1	129491-13071	BEND, EXHAUST	1							N
(A=E00110)											
6	1	129792-18090	GASKET	1							
6-1	1	129472-18090	GASKET	1							R
(A=*1988.10)											
7	1	26703-080002	NUT, M8	4							
8	1	22133-120000	WASHER, 12	8							Z
(A=EXXXXX)											
9	1	23440-050000	GASKET, 50	1							Z
(A=EXXXXX)											
10	1	129493-13070	BEND, EXHAUST		1	1					
10-1	1	129493-13071	BEND, EXHAUST		1	1					N
(B=E00103) (C=E00112)											
12	2	129493-13060	INSULATOR		1	1					
12-1	2	129493-13061	INSULATOR		1	1					N
(B=E00103) (C=E00112)											
13	1	129493-13080	RETAINER		1	1					
14	1	129792-13520	GASKET		1	1					
14-1	1	129472-13520	GASKET		1	1					R
(B=*1988.10) (C=*1988.10)											
15	1	26106-080162	BOLT, M8X 16 PLATED		4	4					
16	1	26703-080002	NUT, M8		3	3					

Fig.16. TURBOCHARGER

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129493-18000	TURBINE, RHB31		1	1					
1A	1	129496-18000	TURBINE, RHB31 (C=FROM 1ST)			1					W 1
3	3	XNB131006	THRUST BUSH		1	1					
3-1	3	XNB131190	THRUST BUSH (B=EXXXXX) (C=EXXXXX)		1	1					S
4	3	XNB131008	SEAL RING,BLOW.SIDE		1	1					
5	3	XNB131009	SEAL RING,BLOW.SIDE		1	1					
6	3	XNB131010	NUT		1	1					
7	3	XNB131007	SEAL RING		1	1					
7-1	3	XNB131013	SEAL RING (B=EXXXXX) (C=EXXXXX)		1	1					N
8	3	XNB133001	SEAL PLATE		1	1					
8-1	3	XNB133011	SEAL PLATE (B=EXXXXX) (C=EXXXXX)		1	1					S
9	3	XNB133215	HOURING, BEARING		1	1					
9-1	3	XNE913210	HOURING, BEARING (B=EXXXXX) (C=EXXXXX)		1	1					S
10	3	XNB133204	CIRCLIP		3	3					
10-1	3	XNB133214	CIRCLIP (B=EXXXXX) (C=EXXXXX)		3	3					S
11	3	XNB133206	SCREW		2	2					
12	3	XNB133208	SCREW(SEAL PLATE)		2	2					
13	3	XNN977007	WASHER (B=EXXXXX) (C=EXXXXX)		2	2					Z
14	3	XNB133521	METAL, FLOATING		2	2					
15	3	XNB133512	THRUST METAL		1	1					
15-1	3	XNB133606	THRUST METAL (B=EXXXXX) (C=EXXXXX)		1	1					N
16	3	XNB134113	HOUSING, BLOWER		1	1					
16-1	3	XNE914110	HOUSING, BLOWER (B=EXXXXX) (C=EXXXXX)		1	1					N
17	3	XNN134035	RETAINER		4	4					
17-1	3	XNN134035	RETAINER (B=EXXXXX) (C=EXXXXX)		3	3					K
18	3	XNB134007	BOLT M 5		4	4					
18-1	3	XNB134007	BOLT M 5 (B=EXXXXX) (C=EXXXXX)		6	6					K
19	3	XNN817511	SPRING WASHER (B=EXXXXX) (C=EXXXXX)		4	4					Z
20	3	XNB135152	GEAR WHEEL		1	1					
21	3	XNB137172	HOUSING, TURBO		1	1					
21-1	3	XNB137170	HOUSING, TURBO (B=EXXXXX) (C=EXXXXX)		1	1					N
21A	3	XNB137500	HOUSING, TURBO (C=FROM 1ST)			1					W 1
22	3	XNB137143	HEAT PROTECTOR		1	1					
23	3	XNN196103	BOLT		4	4					
24	3	XNB137144	RETAINER		1	1					
24-1	3	XNB137144	RETAINER (B=EXXXXX) (C=EXXXXX)		2	2					K

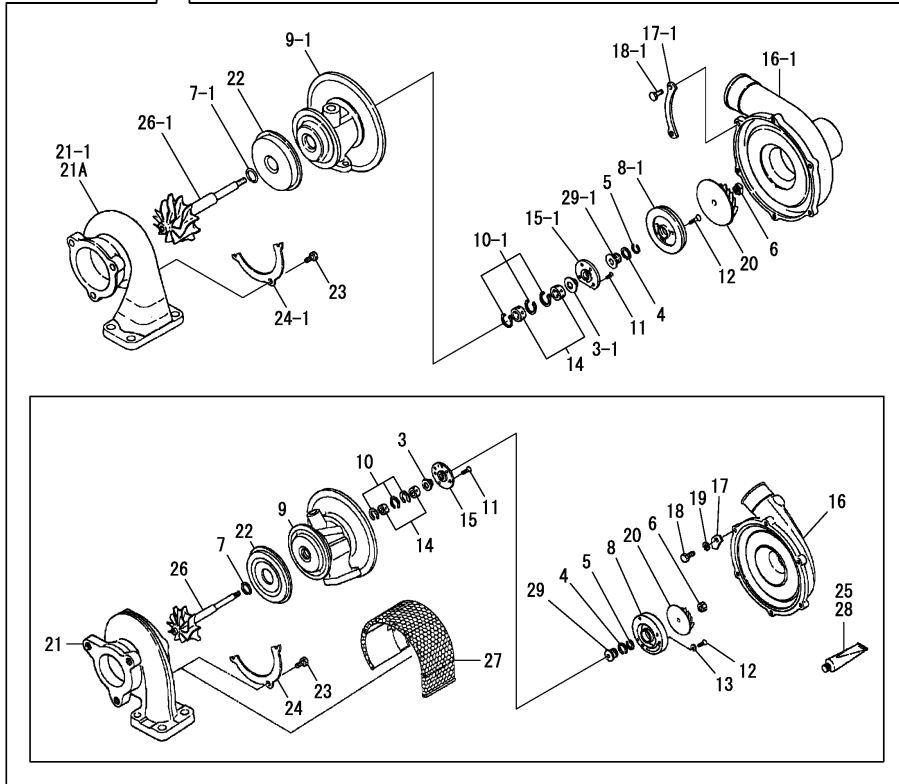
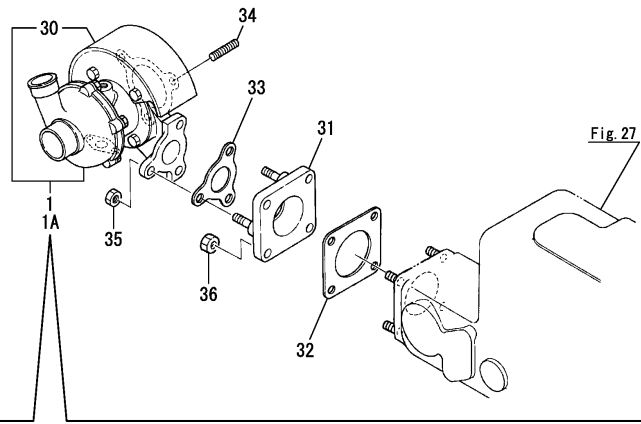
Remarks

(1)Optional parts

Fig.16. TURBOCHARGER

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

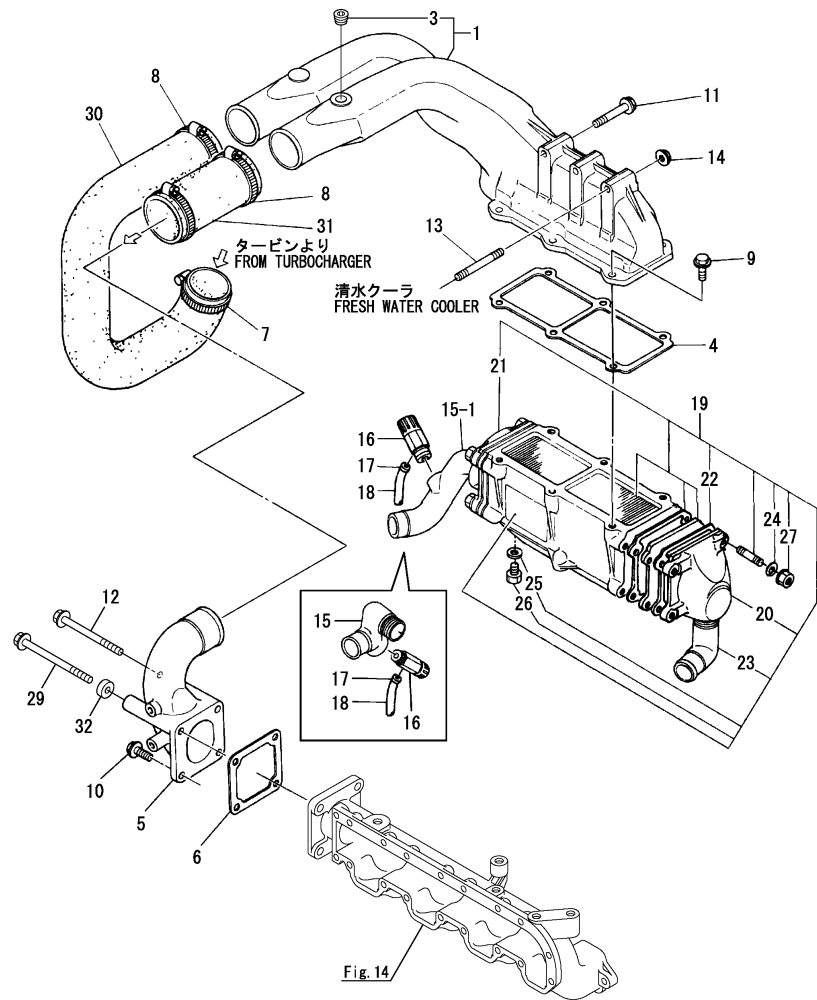
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
25	3	XNN193653	GASKET, RIQUID (B=EXXXXX) (C=EXXXXX)	1	1						Z
26	3	XNB131052	SHAFT, TURBO	1	1						
26-1	3	XNB131181	SHAFT, TURBO (B=EXXXXX) (C=EXXXXX)	1	1						N
27	3	XNB139704	LAGGING, SHAFT TURBO (B=EXXXXX) (C=EXXXXX)	1	1						Z
28	3	XNN193655	BONDO (B=EXXXXX) (C=EXXXXX)	1	1						Z
29	3	XNB131005	OIL DRIP	1	1						
29-1	3	XNB131186	OIL DRIP (B=EXXXXX) (C=EXXXXX)	1	1						S
30	2	129477-18020	INSULATOR	1	1						
31	1	129477-18030	SPACER	1	1						
32	1	129792-18090	GASKET	1	1						
32-1	1	129472-18090	GASKET (B=*1988.10) (C=*1988.10)	1	1						R
33	1	129477-18100	GASKET	1	1						
33-1	1	129477-18101	GASKET (B=*1993.06) (C=*1993.06)	1	1						N
34	1	128170-13600	STUD, M8X31	3	3						
35	1	26703-080002	NUT, M8	3	3						
36	1	26713-080002	NUT, M8	4	4						

Remarks
(1)Optional parts

Fig.17. AIR COOLER



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

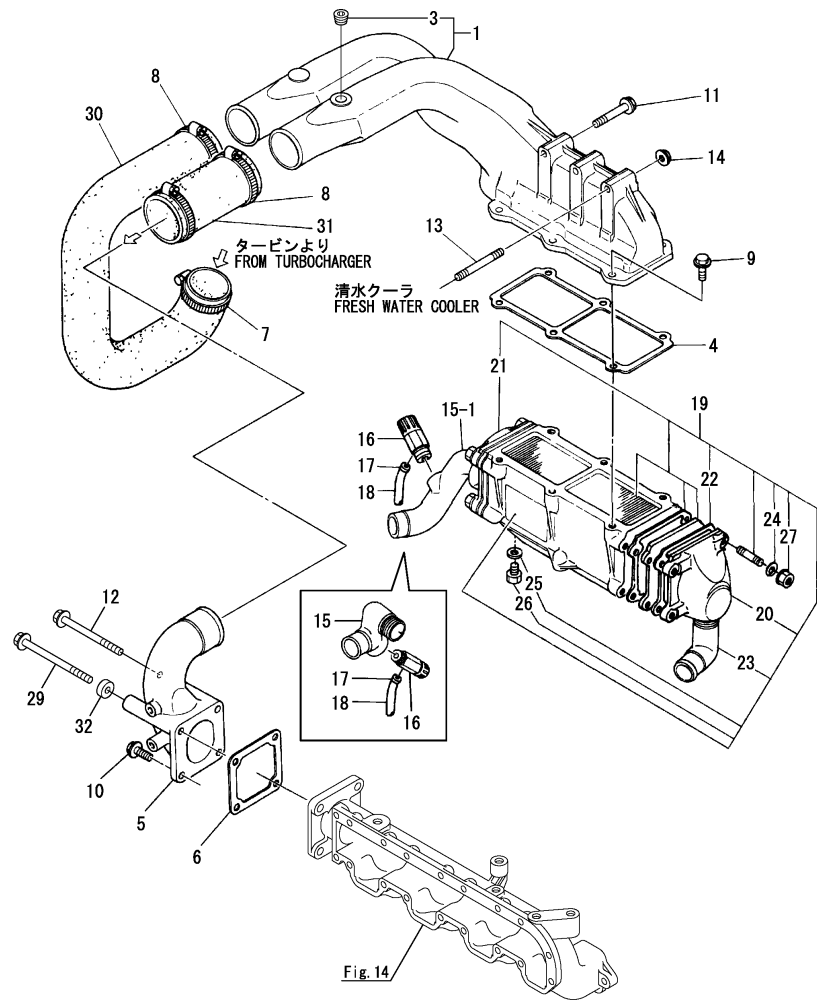
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129474-18180	DUCT, AIR			1					
1-1	1	129474-18181	DUCT ASSY, AIR (C=*1996.04)			1					R
3	2	23876-010000	PLUG, R01 (C=*1986.11)			1					W
4	1	129474-18120	GASKET			1					
4-1	1	129573-18120	GASKET (C=*1988.10)			1					R
5	1	129474-18150	BEND			1					
6	1	129150-77510	GASKET			1					
6-1	1	129470-77590	GASKET (C=*1988.10)			1					R
6-2	1	129150-77511	GASKET (C=E00123)			1					R
7	1	23000-060000	CLAMP, 60			1					
7-1	1	129477-12520	CLIP, HOSE 54 (C=*1987.01)			1					N
8	1	23000-070000	CLAMP, 70			3					
9	1	26106-080202	BOLT, M8X 20 PLATED			6					
10	1	26106-080202	BOLT, M8X 20 PLATED			2					
11	1	26106-080502	BOLT, M8X 50 PLATED			1					
12	1	26106-080952	BOLT, M8X 95 PLATED			2					
12-1	1	26106-080952	BOLT, M8X 95 PLATED (C=E00309)			1					K
13	1	26226-080502	STUD, M8X 50			2					
14	1	26366-080002	NUT, M8			2					
14-1	1	26306-080002	NUT, M8 (C=EXXXXX)			2					N
15	1	129496-49050	BEND			1					
15-1	1	129474-49020	BEND (C=E00127)			1					S
16	1	120130-49350	COCK, 1/4			1					
16-1	1	119620-49290	COCK ASSY, 1/4 (C=*2000.04)			1					N
17	1	124460-77680	RETAINER			1					
18	1	23061-070300	PIPE, 7X 300			1					
19	1	129496-18100	COOLER ASSY, INTER			1					1
19-1	1	129474-18100	COOLER ASSY, INTER (C=E00266)			1					Q 2
20	2	129474-18220	TANK			1					
21	2	129474-18230	TANK			1					
22	2	129474-18240	GASKET			2					1
22-1	2	129474-18241	GASKET (C=E00266)			2					Q 2
23	2	123325-49490	ELBOW			1					
24	2	22217-080000	WASHER, SPRING 8			8					
25	2	23414-130000	GASKET, 13X1.0			1					
26	2	23894-020002	PLUG, G1/4			1					
27	2	26366-080002	NUT, M8			8					
27-1	2	26306-080002	NUT, M8 (C=EXXXXX)			8					N

Remarks
(1)For jg
(2)For JCI

Fig.17. AIR COOLER

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



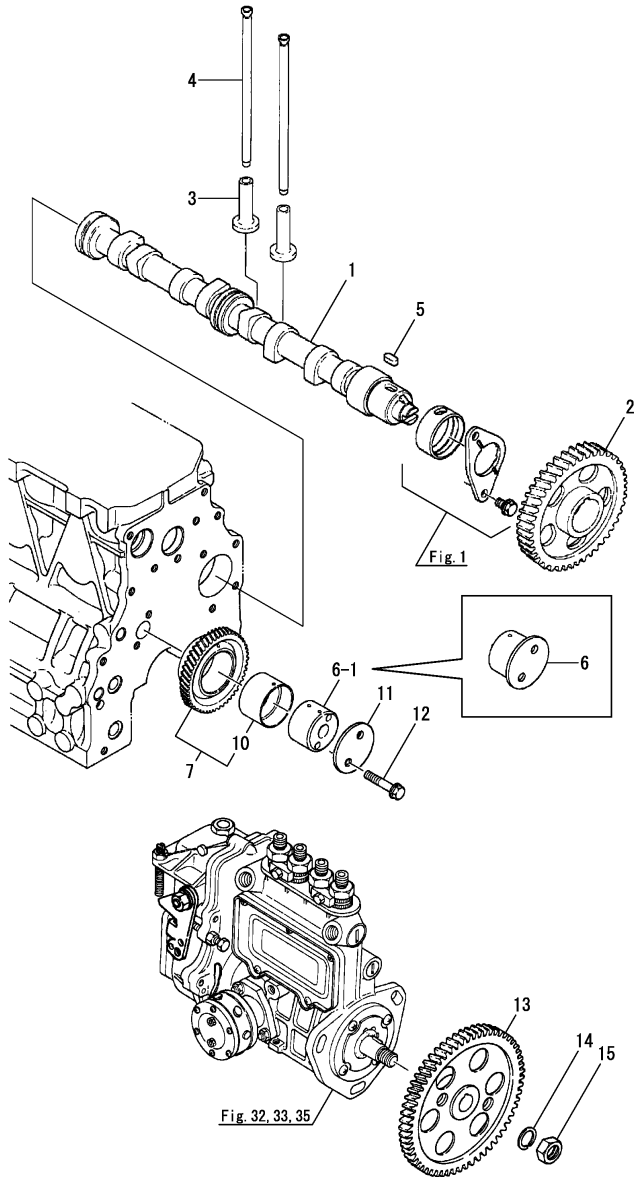
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
29	1	26106-081102	BOLT, M8X110 PLATED (C=E00309)			1					W
30	1	129479-18130	HOSE, RUBBER			1					
31	1	129474-18140	HOSE, RUBBER			1					
32	1	104800-39370	SPACER (C=E00309)			1					W

Remarks
(1)For jg
(2)For JCI

Fig.18. CAMSHAFT & DRIVING GEAR

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129550-14010	CAMSHAFT	1	1	1					
1-1	1	129550-14011	CAMSHAFT	1	1	1				S	1
		(A=*1986.01) (B=*1986.01) (C=*1986.01)									
2	1	129150-14100	GEAR, CAMSHAFT	1	1	1					
2-1	1	129150-14101	GEAR, CAMSHAFT	1	1	1				S	1
		(A=*1986.01) (B=*1986.01) (C=*1986.01)									
3	1	129150-14200	TAPPET	8	8	8					
4	1	129150-14400	ROD, PUSH L=178	8	8	8					
5	1	22512-070140	KEY, 7X 14	1	1	1					
6	1	129150-25051	SHAFT, IDLE	1	1	1					
6-1	1	129150-25052	SHAFT, IDLE	1	1	1					S
		(A=*1987.02) (B=*1987.02) (C=*1987.02)									
7	1	129150-25101	GEAR ASSY, IDLE	1	1	1					
7-1	1	129573-25100	GEAR ASSY, IDLE	1	1	1					N
		(A=*1989.07) (B=*1989.07) (C=*1989.07)									
10	2	129573-25090	BUSH, IDLE GEAR	1	1	1					W 2
		(A=FROM 1ST) (B=FROM 1ST) (C=FROM 1ST)									
11	1	129150-25020	RETAINER	1	1	1					W
		(A=*1987.02) (B=*1987.02) (C=*1987.02)									
12	1	26106-080452	BOLT, M8X 45 PLATED	2	2	2					
12-1	1	119174-25060	BOLT, M8X45	2	2	2					R
		(A=E00108) (B=E00101) (C=E00105)									
13	1	129150-25900	GEAR, PUMP	1	1	1					
13-1	1	129573-25900	GEAR, PUMP	1	1	1					N
		(A=*1988.08) (B=*1988.08) (C=*1988.08)									
14	1	22217-120000	WASHER, SPRING 12	1	1	1					
15	1	26716-120002	NUT, M12	1	1	1					

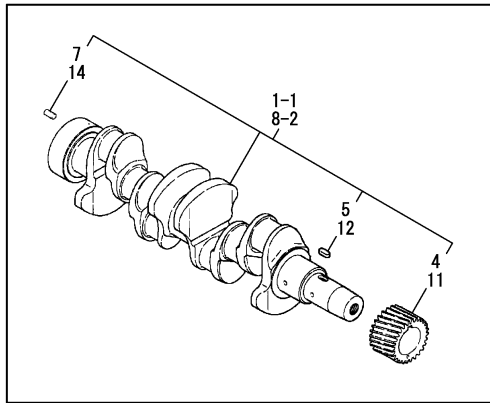
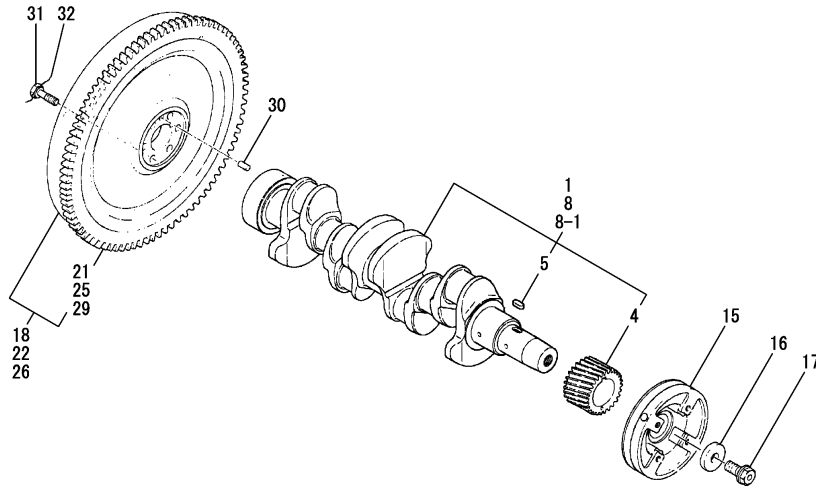
Remarks

- (1)Interchangeable by simultaneous replacement with No.1-1 and 2-1.
- (2)Spare parts

Fig.19. CRANKSHAFT & FLYWHEEL

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



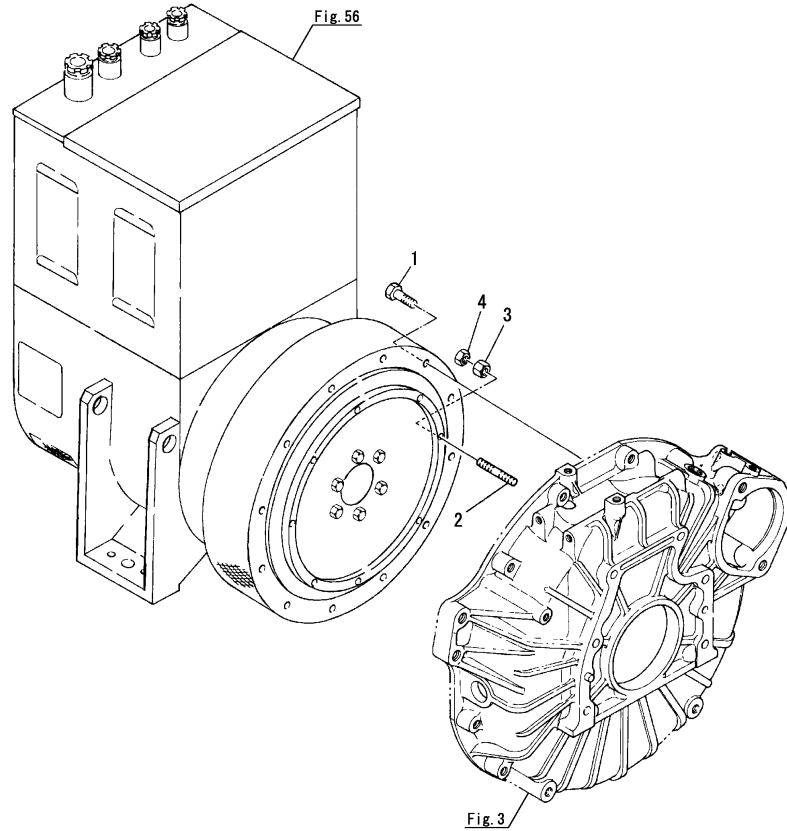
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-21000	CRANKSHAFT ASSY	1							1
1-1	1	129470-21001	CRANKSHAFT ASSY	1							Q 2
(A=E00265)											
4	2	129150-21200	GEAR, CRANKSHAFT	1							
5	2	22512-070140	KEY, 7X 14	1							
7	2	129100-01580	PIN, 8X16	1							W
8	1	129491-21000	CRANKSHAFT ASSY		1						1
8-1	1	129496-21000	CRANKSHAFT ASSY		1	1					N 1
(B=*1987.01)											
8-2	1	129474-21001	CRANKSHAFT ASSY		1	1					Q 2
(B=E00269) (C=E00266)											
11	2	129150-21200	GEAR, CRANKSHAFT		1	1					
12	2	22512-070140	KEY, 7X 14		1	1					
14	2	129100-01580	PIN, 8X16		1	1					W
(B=E00269) (C=E00266)											
15	1	129470-21650	V-PULLEY, 82.5	1	1	1					
16	1	129795-21661	WASHER	1	1	1					
17	1	121850-21680	BOLT	1	1	1					
18	1	129475-21590	FLYWHEEL ASSY	1							
18-1	1	129475-21591	FLYWHEEL ASSY	1							R
(A=EXXXXX)											
21	2	124550-21600	GEAR, RING	1							
22	1	129475-21590	FLYWHEEL ASSY		1						
22-1	1	129477-21590	FLYWHEEL ASSY		1						N
(B=*1987.01)											
22-2	1	129475-21591	FLYWHEEL ASSY		1						R
(B=EXXXXX)											
25	2	124550-21600	GEAR, RING		1						
26	1	129496-21590	FLYWHEEL ASSY			1					
26-1	1	129475-21591	FLYWHEEL ASSY			1					R
(C=EXXXXX)											
29	2	124550-21600	GEAR, RING				1				
30	1	22312-080160	PIN, PARALLEL M8X16	1	1	1					
30-1	1	129100-01580	PIN, 8X16	1	1	1					R
(A=E00347) (B=*1997.07) (C=*1997.07)											
30-2	1	129100-01580	PIN, 8X16	1	1	1					Z
(A=E00265) (B=E00269) (C=E00266)											
31	1	129491-21501	BOLT, M10X32	6	6	6					1
31-1	1	121111-21501	BOLT, FLYWHEEL	6	6	6					Q 2
(A=E00265) (B=E00269) (C=E00266)											
32	1	22451-160000	WIRE, 1.6	1	1	1					Z
(A=E00108) (B=E00101) (C=E00105)											

Remarks
(1)For Jg
(2)For JCI

Fig.20. GENERATOR SET PARTS

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

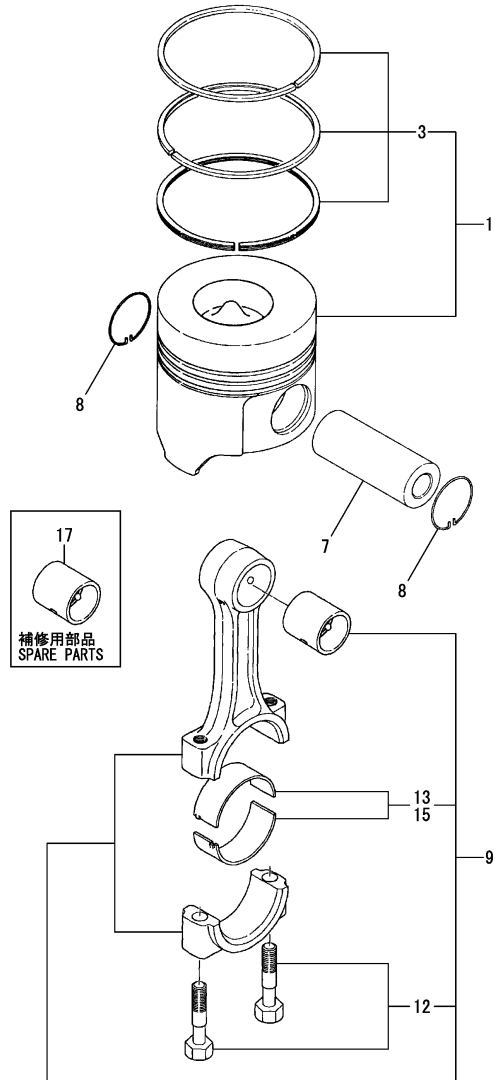
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26206-100302	BOLT, M10X 30 PLATED	12	12	12					
2	1	26216-080552	STUD, M8X 55	8	8	8					1
2A	1	26216-080302	STUD, M8X 30	8	8	8					2
3	1	26706-080002	NUT, M8	8	8	8					1
3A	1	26366-080002	NUT, M8	8	8	8					2
3A-1	1	26306-080002	NUT, M8	8	8	8					N 2
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
4	1	26756-080002	NUT, LOCK M8	8	8	8					

Remarks
(1)For Tokyo Electric Industry generator(Optional)
(2)For Taiyo Electric generator

Fig.21. PISTON & CONNECTING ROD



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-22000	PISTON ASSY	4	4	4					
3	2	729550-22501	RING SET, PISTON	4	4	4					
3-1	2	129590-22510	RING SET, PISTON	4	4	4					N
7	1	(A=E00353) 129150-22300	(B=E00459) PIN, PISTON D26 L66	(C=E00305) 4	4	4					
8	1	121100-22400	CIRCLIP	8	8	8					
9	1	729491-23700	ROD ASSY, CONNECTING	4	4	4					1
9-1	1	129198-23110	ROD ASSY, CONNECTING	4	4	4					R 1
9-2	1	129198-23100	ROD ASSY, CONNECTING	4	4	4					Q 2
12	2	(A=E00265) 129491-23200	(B=E00269) BOLT, CONNECTING ROD	(C=E00266) 8	8	8					1
12-1	2	121550-23200	BOLT, CONNECTING ROD	8	8	8					Q 2
13	2	(A=E00265) 729150-23600	(B=E00269) BEARING, CRANK PIN	(C=E00266) 4	4	4					
13-1	2	129150-23600	BEARING, CRANK PIN	4	4	4					N
13-2	2	(A=E00265) 129150-23601	(B=E00269) BEARING, CRANK PIN	(C=E00266) 4	4	4					N
15	1	(A=E00265) 129150-23610	(B=E00269) BEARING, 0.25 US	(C=E00266) 4	4	4					3
15-1	1	129150-23611	BEARING, 0.25 US	4	4	4					N 3
17	1	(A=E00265) 129100-23910	(B=E00269) BEARING, PISTON PIN	(C=E00266) 4	4	4					4

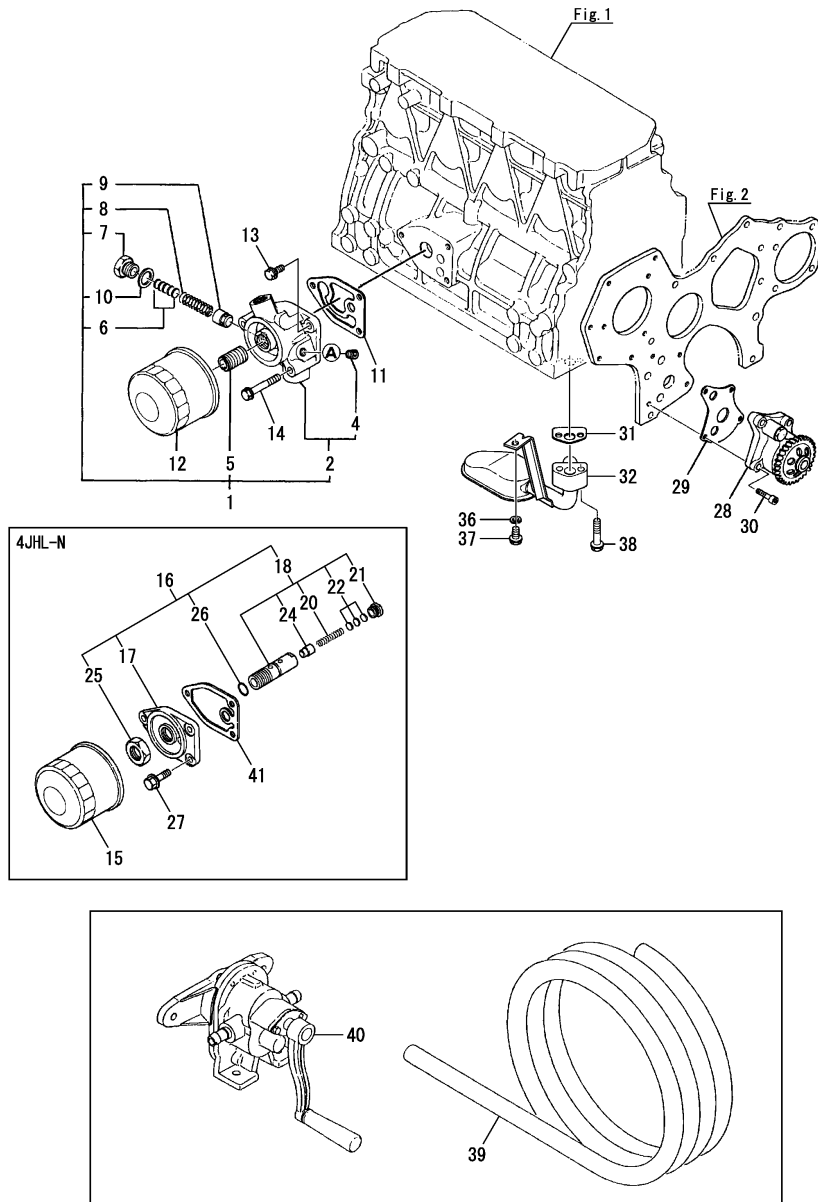
Remarks

- (1) For jg
- (2) For JCI
- (3) Under sized(U.S.=0.25)parts
- (4) Spare parts

Fig.22. LUB. OIL SYSTEM

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



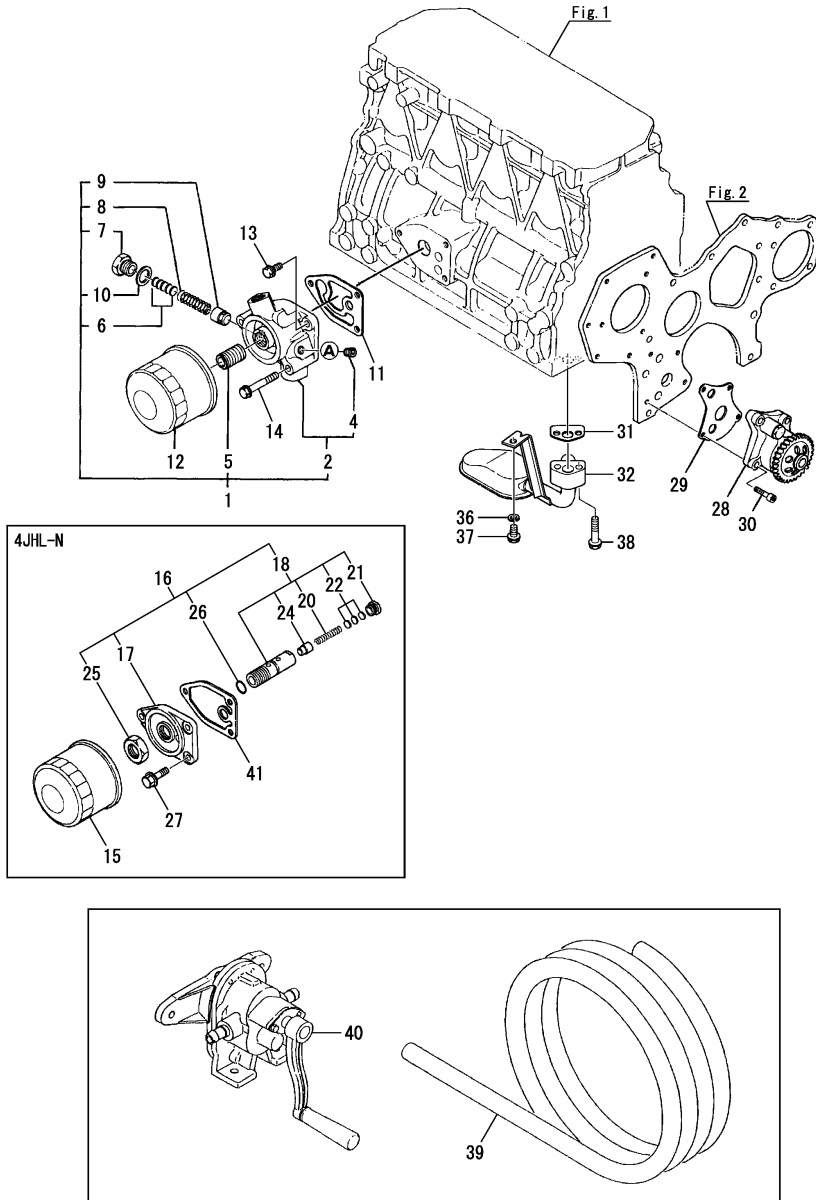
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-35100	BRACKET ASSY, FILTER		1	1					
1-1	1	129470-35101	BRACKET ASSY, FILTER		1	1					S
		(B=*1991.02) (C=*1991.02)									
2	2	129470-35130	BRACKET ASSY		1	1					
2-1	2	129470-35131	BRACKET ASSY		1	1					S
		(B=*1991.02) (C=*1991.02)									
4	3	23876-020000	PLUG, R02		1	1					
5	2	129100-35140	STUD		1	1					
6	2	121850-35200	SHIM SET		1	1					
7	2	124223-35510	RETAINER, SPRING		1	1					
8	2	121850-35520	SPRING		1	1					
9	2	121850-35531	VALVE, CONTROL		1	1					
10	2	23414-180000	GASKET, 18X1.0		1	1					
11	1	129470-35120	GASKET		1	1					
11-1	1	129470-35121	GASKET		1	1					R
		(B=*1988.10) (C=*1988.10)									
12	1	129150-35150	FILTER 90X80L		1	1					
12-1	1	129150-35152	FILTER, D80XL80		1	1					R
		(B=EXXXXX) (C=EXXXXX)									
12-2	1	129150-35153	FILTER		1	1					R 1
		(B=E00162) (C=E00154)									
13	1	26106-080202	BOLT, M8X 20 PLATED		1	1					
14	1	26106-080552	BOLT, M8X 55 PLATED			2	2				
15	1	129150-35150	FILTER 90X80L	1							
15-1	1	129150-35152	FILTER, D80XL80	1							R
		(A=E00108)									
15-2	1	129150-35153	FILTER	1							R 1
		(A=E00149)									
16	1	129052-35000	BRACKET ASSY, FILTER	1							W
		(A=E00108)									
17	2	129150-35101	BRACKET, STRAINER	1							
18	2	119865-35300	VALVE ASSY, CONTROL	1							
18-1	2	119609-35300	VALVE ASSY, CONTROL	1							N
		(A=EXXXXX)									
20	3	119865-35320	SPRING	1							
20-1	3	119609-32320	SPRING	1							S
		(A=EXXXXX)									
21	3	119865-35330	RETAINER	1							
21-1	3	119609-35330	RETAINER	1							S
		(A=EXXXXX)									
22	3	129150-35340	SHIM SET	1							W
		(A=EXXXXX)									
24	3	119865-35350	VALVE, CONTROL	1							
24-1	3	119609-32130	VALVE, CONTROL	1							S
		(A=EXXXXX)									
25	2	129150-35350	NUT	1							
26	2	24311-000160	O-RING, 1AP16.0	1							
26-1	2	119609-32040	O-RING, P16	1							N
		(A=E00108)									
27	1	26106-080202	BOLT, M8X 20 PLATED	3							
28	1	129553-32000	PUMP ASSY, OIL	1	1	1					

Remarks
(1) Spare parts

Fig.22. LUB. OIL SYSTEM

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

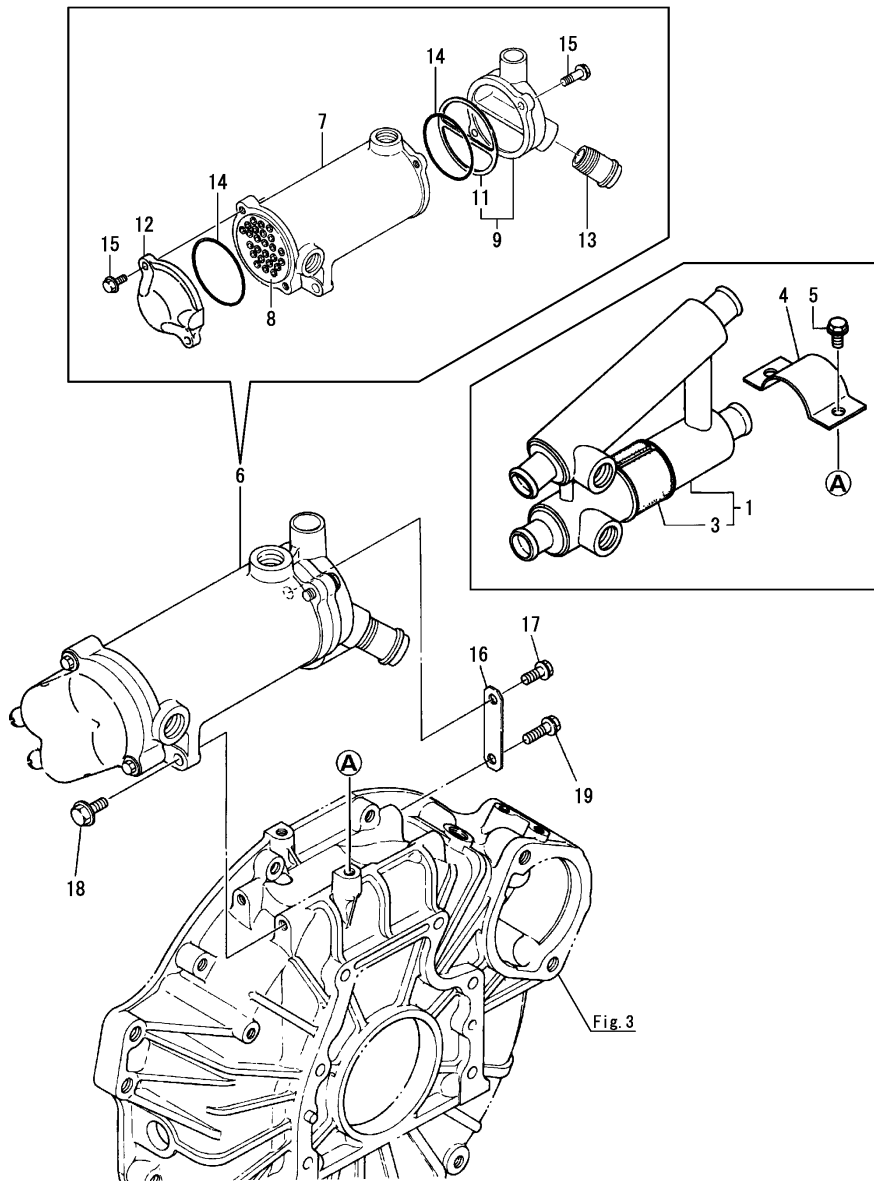
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
28-1	1	129470-32000 (A=*1986.01) (B=*1986.01) (C=*1986.01)	PUMP ASSY, OIL	1	1	1					N
28-2	1	129470-32001 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	PUMP ASSY, OIL	1	1	1					N
28-3	1	129470-32002 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	PUMP ASSY, LO	1	1	1					R
29	1	129150-32020	GASKET, PUMP	1	1	1					
30	1	26450-060252	BOLT, M6X 25	4	4	4					
31	1	129150-35040	GASKET	1	1	1					
31-1	1	129470-35040 (A=*1988.10) (B=*1988.10) (C=*1988.10)	GASKET	1	1	1					R
31-2	1	129150-35041 (A=E00108) (B=E00101) (C=E00105)	GASKET	1	1	1					R
31-3	1	129150-35042 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	GASKET	1	1	1					N
32	1	129470-35090	PIPE ASSY, OIL INLET	1	1	1					
36	1	22217-080000	WASHER, SPRING 8	1	1	1					
37	1	26106-080142	BOLT, M8X 14 PLATED	1	1	1					
38	1	26106-080352	BOLT, M8X 35 PLATED	2	2	2					
39	1	43720-001220	PIPE	1	1	1					
39-1	1	120130-39990 (A=E00152) (B=E00162) (C=E00154)	HOSE,OIL DRAIN 3M	1	1	1					R
40	1	124413-39100	PUMP ASSY, WASTE	1	1	1					
41	1	129150-35110	GASKET	1							
41-1	1	129150-35111 (A=*1990.08)	GASKET	1							N

Remarks
(1)Spare parts

Fig.23. LUB. OIL COOLER

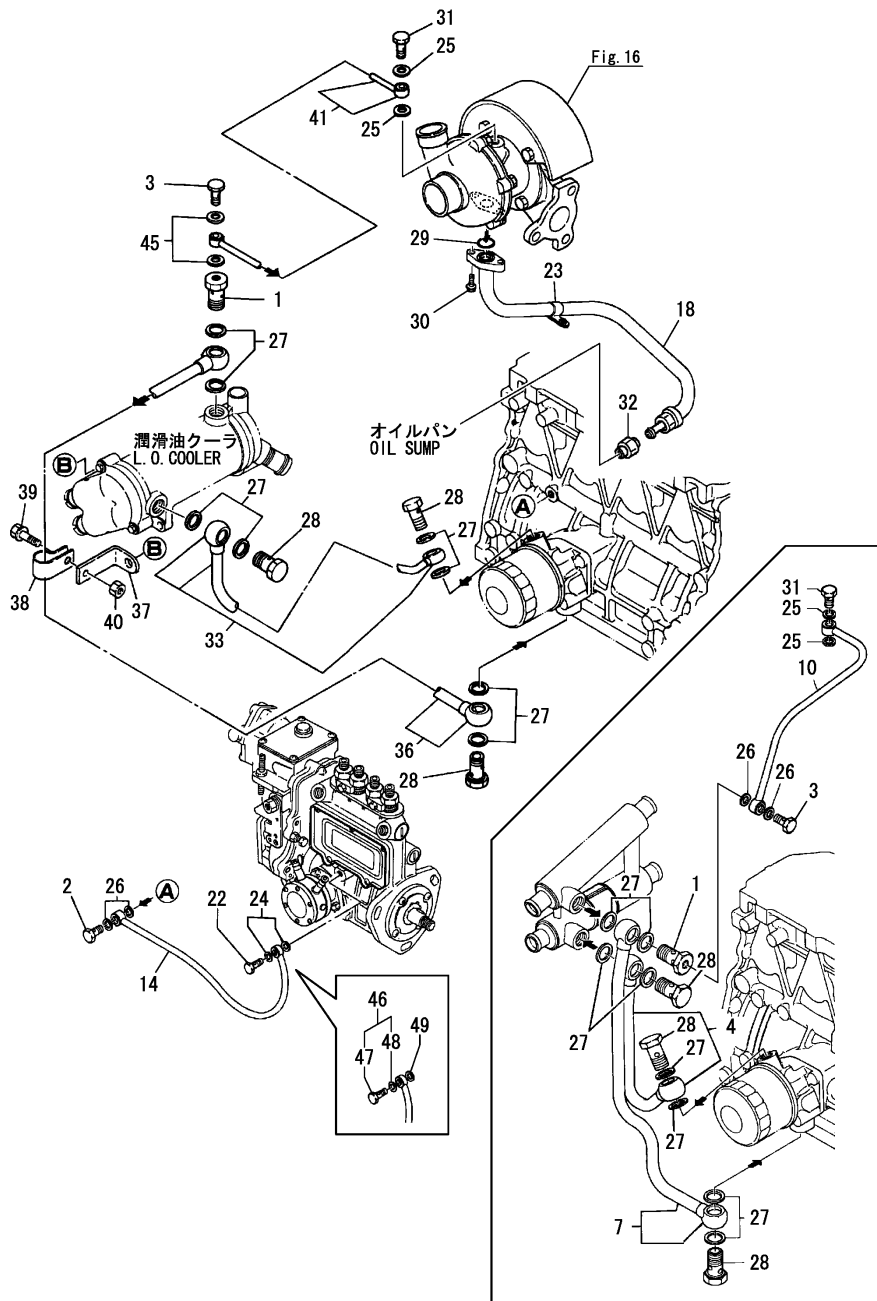


(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	129470-33000 (B=E00452) (C=E00304)	COOLER ASSY, OIL		1	1					Z	
3	2	129470-33550 (B=E00452) (C=E00304)	SEAT, RUBBER		1	1					Z	
4	1	129470-33510 (B=E00452) (C=E00304)	RETAINER		1	1					Z	
5	1	26106-080162 (B=E00452) (C=E00304)	BOLT, M8X 16 PLATED		2	2					Z	
6	1	129499-33000 (B=E00452) (C=E00304)	COOLER ASSY, OIL		1	1					W	
6-1	1	129496-33000 (B=E00464) (C=E00310)	COOLER ASSY, OIL		1	1					N	
7	2	129474-33010 (B=E00452) (C=E00304)	BODY, OIL COOLER		1	1					W	
7-1	2	129496-33010 (B=E00464) (C=E00310)	BODY, OIL COOLER		1	1					N	
8	2	129474-33040 (B=E00452) (C=E00304)	CORE ASSY, COOLER		1	1					W	
9	2	129474-33050 (B=E00452) (C=E00304)	COVER ASSY		1	1					W	
9-1	2	129496-33060 (B=E00464) (C=E00310)	COVER ASSY		1	1					N	
11	3	120322-33050 (B=E00452) (C=E00304)	GASKET		1	1					W	
11-1	3	129496-33050 (B=E00464) (C=E00310)	GASKET		1	1					N	
12	2	129470-44450 (B=E00452) (C=E00304)	COVER, B		1	1					W	
13	2	123325-49421 (B=E00452) (C=E00304)	JOINT, PIPE		1	1					W	
14	2	24321-000750 (B=E00452) (C=E00304)	O-RING, 1AG75.0		2	2					W	
15	2	26106-080252 (B=E00452) (C=E00304)	BOLT, M8X 25 PLATED		4	4					W	
16	1	129474-33500 (B=E00452) (C=E00304)	RETAINER		1	1					W	
17	1	26106-080142 (B=E00452) (C=E00304)	BOLT, M8X 14 PLATED		1	1					W	
18	1	26106-080162 (B=E00452) (C=E00304)	BOLT, M8X 16 PLATED		2	2					W	
19	1	26106-080252 (B=E00452) (C=E00304)	BOLT, M8X 25 PLATED		1	1					W	

Fig.24. LUB. OIL PIPE



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

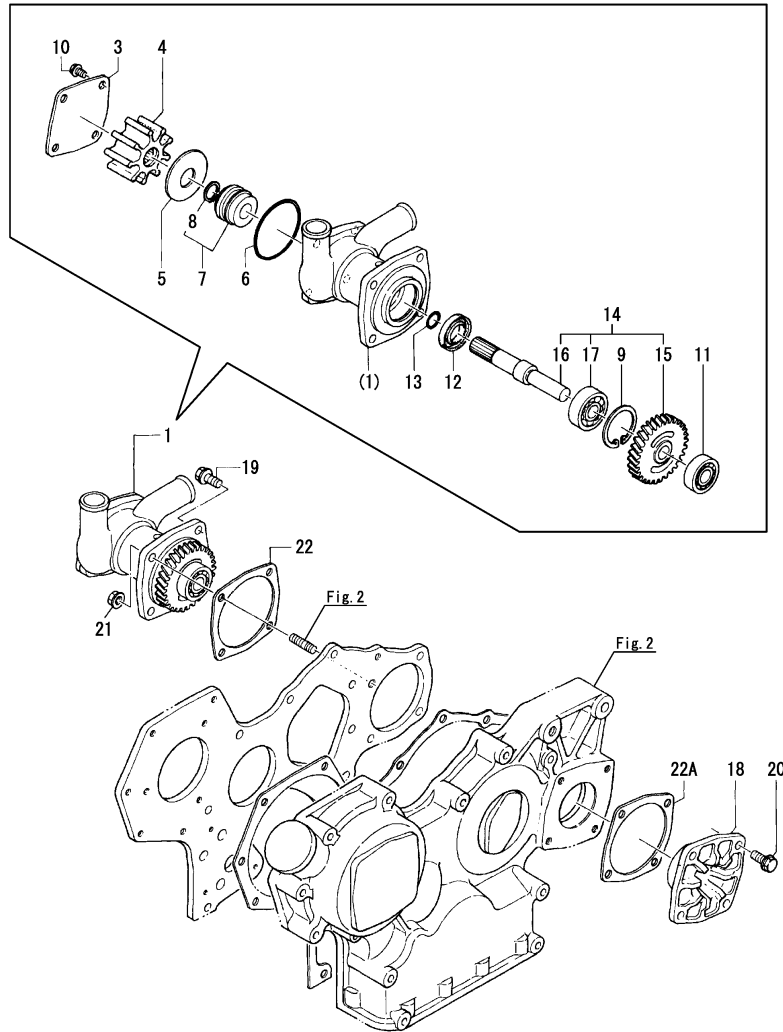
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129472-39020	BOLT, M20XM10		1	1					
2	1	124160-39140	BOLT, PIPE JOINT M10	1	1	1					
3	1	121252-39150	BOLT, JOINT M10X1.5		1	1					
4	1	129470-39200	PIPE ASSY, OIL		1	1					
4-1	1	129470-39201	PIPE ASSY, OIL (B=*1991.02) (C=*1991.02)		1	1					S
4-2	1	129470-39201	PIPE ASSY, OIL (B=E00452) (C=E00304)		1	1					Z
7	1	129470-39300	PIPE ASSY, OIL (B=E00452) (C=E00304)		1	1					Z
10	1	129496-39450	PIPE ASSY, OIL (B=E00452) (C=E00304)		1	1					Z
14	1	129550-39450	PIPE ASSY, OIL	1	1	1					
18	1	129493-39600	PIPE ASSY, RETURN		1	1					
22	1	124550-59820	BOLT, PIPE JOINT M8	1	1	1					Z
23	1	23297-140081	CLAMP, A14X 8 (B=E00452) (C=E00304)		1	1					Z
24	1	22190-080002	WASHER, SEAL 8 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	2	2	2					Z
25	1	23414-080000	GASKET, 8X1.0		2	2					
26	1	23414-100000	GASKET, 10X1.0	2	2	2					
26-1	1	22190-100002	WASHER, SEAL 10 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	2	2	2					N
27	1	23414-200000	GASKET, 20X1.0	8	8						
28	1	23857-150000	BOLT, JOINT 15	3	3						
29	1	24314-000160	O-RING, 4CP16.0	1	1						
29-1	1	24316-000160	O-RING, 4DP16.0 (B=EXXXXX) (C=EXXXXX)	1	1						N
30	1	26106-060162	BOLT, M6X 16 PLATED	2	2						
31	1	105010-39140	BOLT, PIPE JOINT	1	1						
32	1	43551-001701	UNION	1	1						
33	1	129474-39201	PIPE ASSY, OIL	1	1	1					
36	1	129495-39320	PIPE ASSY, OIL	1	1	1					
37	1	129495-39350	STAY	1	1	1					
38	1	129495-39360	RETAINER	1	1	1					
38-1	1	129495-39361	CLAMP (B=E00258) (C=E00259)	1	1	1					N
39	1	26106-060202	BOLT, M6X 20 PLATED	1	1	1					
40	1	26756-060002	NUT, LOCK M6	1	1	1					
41	1	129493-39450	PIPE ASSY, OIL	1	1	1					
45	1	23414-100000	GASKET, 10X1.0	2	2						
46	1	124550-59830	BOLT ASSY, JOINT M8 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	1	1	1					W
47	2	124550-59820	BOLT, PIPE JOINT M8 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	1	1	1					W
48	2	22190-080002	WASHER, SEAL 8 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	1	1	1					W
49	1	22190-080002	WASHER, SEAL 8 (A=EXXXXX) (B=EXXXXX) (C=EXXXXX)	1	1	1					W

Fig.25. COOLING SEA WATER PUMP

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



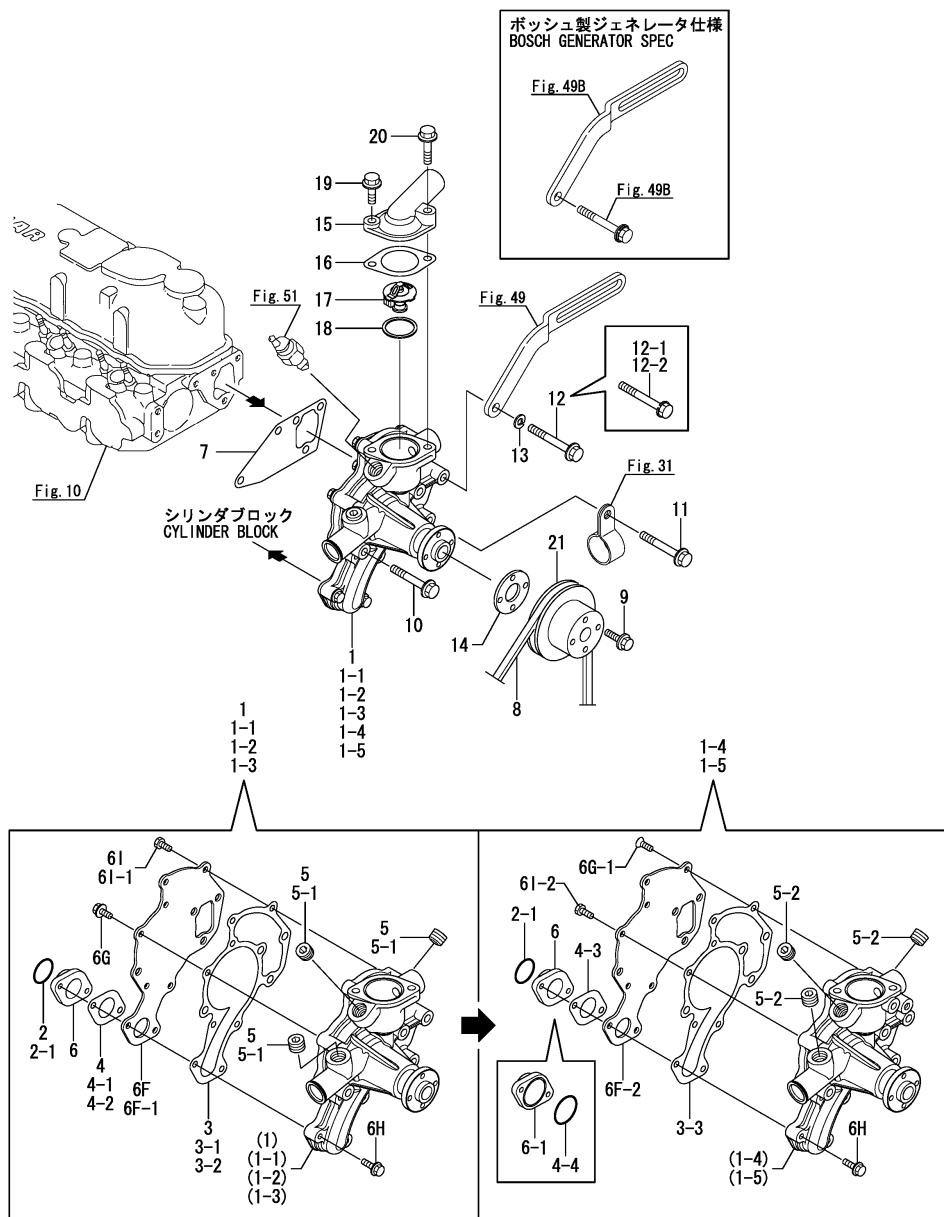
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-42500	PUMP ASSY, WATER	1	1	1					1
1-1	1	129491-42501	PUMP ASSY, C. WATER	1	1	1					N 1
		(A=*2000.09.) (B=*2000.09.) (C=*2000.09.)									
1-2	1	129491-42502	PUMP ASSY, WATER	1	1	1					N 1
		(A=E00149) (B=E00147) (C=E00148)									
1-3	1	129573-42502	PUMP ASSY, WATER	1	1	1					Q 2
		(A=E00265) (B=E00269) (C=E00266)									
3	2	129470-42520	COVER	1	1	1					
4	2	129470-42530	IMPELLER	1	1	1					
4-1	2	129470-42531	IMPELLER	1	1	1					N
		(A=*2000.09.) (B=*2000.09.) (C=*2000.09.)									
4-2	2	129470-42532	IMPELLER	1	1	1					N
		(A=E00149) (B=E00147) (C=E00148)									
5	2	129470-42540	PLATE	1	1	1					1
5-1	2	129573-42540	PLATE	1	1	1					Q 2
		(A=E00265) (B=E00269) (C=E00266)									
6	2	24341-000600	O-RING, 1AS60.0	1	1	1					
7	2	129795-42670	SEAL	1	1	1					
8	3	145410-46190	CIRCLIP	1	1	1					
9	2	22252-000420	RING, 42	1	1	1					
10	2	26203-060102	BOLT, M6X 10 PLATED	4	4	4					
11	2	24101-062024	BEARING, BALL 6202	1	1	1					
12	2	24421-203508	SEAL, OIL TC203508	1	1	1					
13	2	24311-000150	O-RING, 1AP15.0	1	1	1					
14	2	129491-42560	SHAFT ASSY	1	1	1					
15	3	129470-42700	GEAR	1	1	1					
16	3	129470-42550	SHAFT	1	1	1					
17	3	24101-063024	BEARING, BALL 6302	1	1	1					
18	1	129470-42800	RETAINER	1	1	1					Z
		(A=*1987.10.) (B=*1987.10.) (C=*1987.10.)									
19	1	26106-080162	BOLT, M8X 16 PLATED	3	3	3					
20	1	26106-080202	BOLT, M8X 20 PLATED	4	4	4					Z
		(A=*1987.10.) (B=*1987.10.) (C=*1987.10.)									
21	1	26366-080002	NUT, M8	1	1	1					
21-1	1	26306-080002	NUT, M8	1	1	1					N
		(A=*2001.03.) (B=*2001.03.) (C=*2001.03.)									
22	1	129150-01880	GASKET	1	1	1					
22-1	1	129470-01880	GASKET, GEAR CASE	1	1	1					N
		(A=*1988.10.) (B=*1988.10.) (C=*1988.10.)									
22-2	1	129150-01881	GASKET	1	1	1					R
		(A=*1991.03.) (B=*1991.03.) (C=*1991.03.)									
22A	1	129150-01880	GASKET	1	1	1					Z
		(A=*1987.10.) (B=*1987.10.) (C=*1987.10.)									

Remarks
(1)For jg.
(2)For JCI.

Fig.26. COOLING FRESH WATER PUMP

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-42000	PUMP ASSY, WATER	1	1	1					
1-1	1	129470-42001	PUMP ASSY, WATER	1	1	1					N
		(A=*1991.03) (B=*1991.03) (C=*1991.03)									
1-2	1	129470-42002	PUMP ASSY, WATER	1	1	1					R
		(A=E00000) (B=E00000) (C=E00000)									
1-3	1	129491-42000	PUMP ASSY	1	1	1					R
		(A=E00108) (B=E00101) (C=E00105)									
1-4	1	129491-42001	PUMP ASSY, WATER	1	1	1					R
		(A=E00000) (B=E00223) (C=E00205)									
1-5	1	129470-42003	PUMP ASSY, WATER	1	1	1					N
		(A=E00257) (B=E00257) (C=E00257)									
2	2	129150-42320	O-RING	1	1	1					
2-1	2	129054-42320	O-RING	1	1	1					N
		(A=E00000) (B=E00000) (C=E00000)									
3	2	129150-42051	GASKET, WATER PUMP	1	1	1					
3-1	2	129470-42050	GASKET	1	1	1					N
		(A=E00000) (B=E00000) (C=E00000)									
3-2	2	129052-42050	GASKET	1	1	1					R
		(A=E00000) (B=E00000) (C=E00000)									
3-3	2	129150-42059	GASKET	1	1	1					N
		(A=E00000) (B=E00223) (C=E00205)									
4	2	129150-42311	GASKET	1	1	1					
4-1	2	129470-42310	GASKET	1	1	1					N
		(A=E00000) (B=E00000) (C=E00000)									
4-2	2	129052-42310	GASKET	1	1	1					R
		(A=E00000) (B=E00000) (C=E00000)									
4-3	2	129150-42319	GASKET	1	1	1					N
		(A=E00000) (B=E00223) (C=E00205)									
4-4	2	24358-240310	O-RING, 524031	1	1	1					S 1
		(A=E00000) (B=E00000) (C=E00000)									
5	2	124085-11690	PLUG, 3/8	3	3	3					
5-1	2	23875-030000	PLUG, R03	3	3	3					S
		(A=E00000) (B=E00000) (C=E00000)									
5-2	2	129916-49740	PLUG, R03	3	3	3					N
		(A=E00000) (B=E00223) (C=E00205)									
5-3	2	129916-49740	PLUG, R03	2	2	2					K
		(A=E00000) (B=E00000) (C=E00000)									
6	2	129150-42300	FLANGE	1	1	1					
6-1	2	129150-42301	FLANGE	1	1	1					S 1
		(A=E00000) (B=E00000) (C=E00000)									
6F	2	129150-42120	PLATE	1	1	1					
6F-1	2	129150-42129	PLATE	1	1	1					R
		(A=E00000) (B=E00000) (C=E00000)									
6F-2	2	129263-42120	PLATE	1	1	1					S
		(A=E00000) (B=E00223) (C=E00205)									
6G	2	26106-060142	BOLT, M6X 14 PLATED	5	5	5					
6G-1	2	26577-060142	SCREW M 6X 14	3	3	3					S
		(A=E00000) (B=E00223) (C=E00205)									
6H	2	26106-060202	BOLT, M6X 20 PLATED	2	2	2					
6I	2	26116-060142	BOLT, M6X 14 PLATED	1	1	1					
6I-1	2	26116-060162	BOLT, M6X 16 PLATED	1	1	1					R

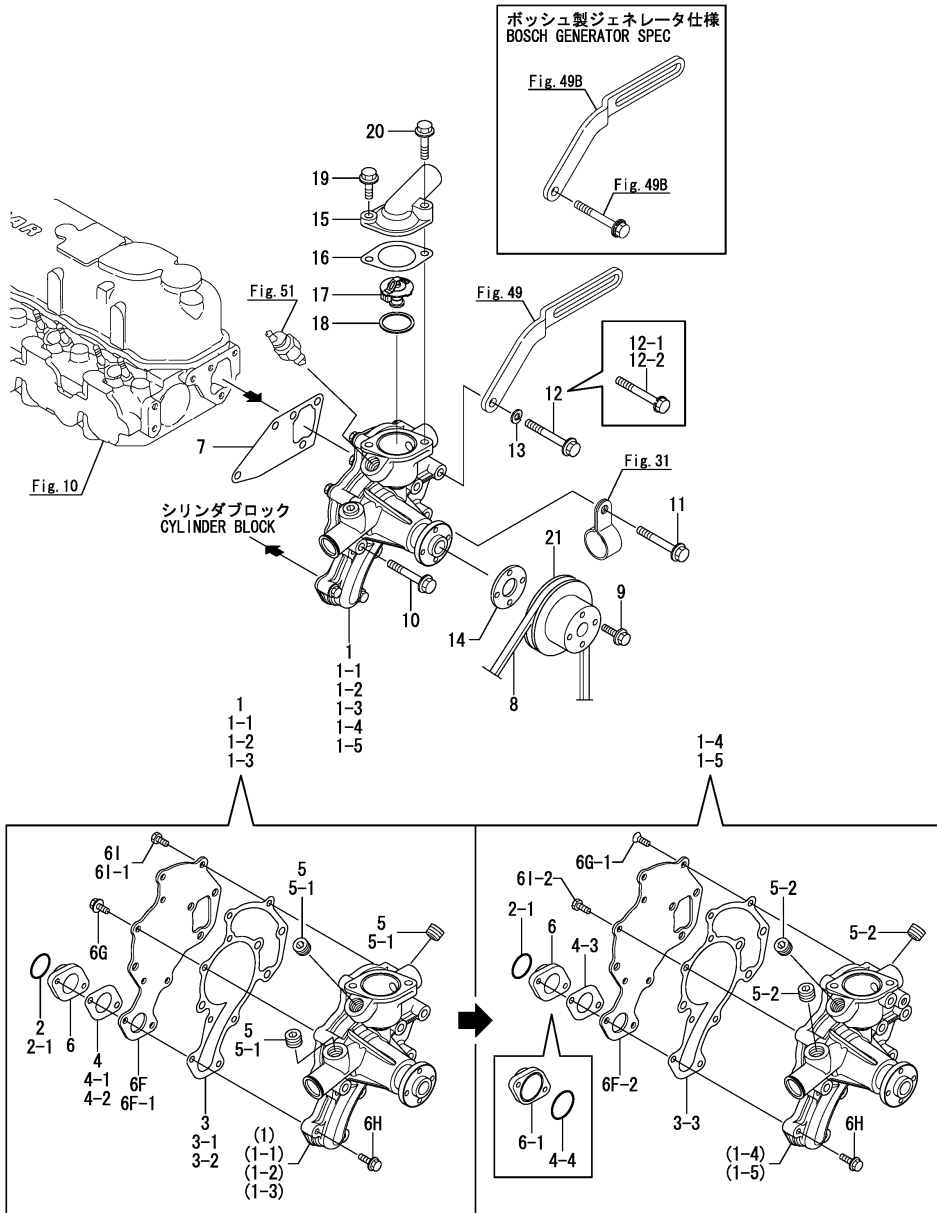
Remarks

(1) Interchangeable by simultaneous replacement with No.4-4 and 6-1.

Fig.26. COOLING FRESH WATER PUMP

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



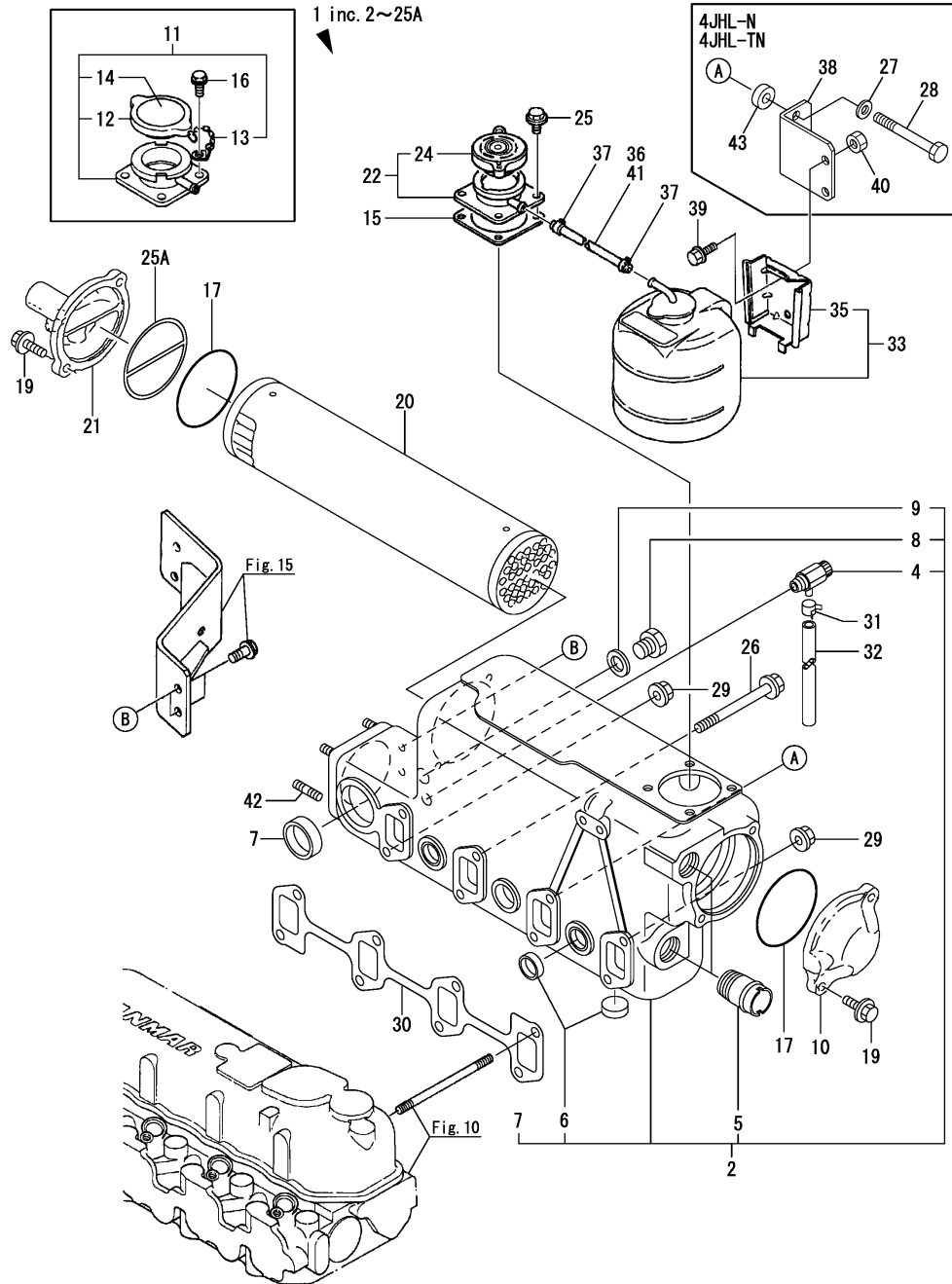
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
61-2	2	26116-060162	BOLT, M6X 16 PLATED	3	3	3					K
7	1	129150-42020	GASKET, WATER PUMP	1	1	1					
7-1	1	129486-42050	GASKET, WATER PUMP	1	1	1					R
8	1	25132-004600	V-BELT, A46	1	1	1					
9	1	26106-060102	BOLT, M6X 10 PLATED	4	4	4					
10	1	26106-080552	BOLT, M8X 55 PLATED	3	3	3					
11	1	26106-080552	BOLT, M8X 55 PLATED	1	1	1					
11-1	1	26106-080602	BOLT, M8X 60 PLATED		1	1					N
11-2	1	26106-080552	BOLT, M8X 55 PLATED		1	1					N
12	1	26106-080652	BOLT, M8X 65 PLATED	1	1	1					
12-1	1	26013-080652	BOLT, M8X 65	1	1	1					R
12-2	1	26013-080652	BOLT, M8X 65	1	1	1					Z
13	1	22217-080000	WASHER, SPRING 8	1	1	1					Z
14	1	129156-44760	WASHER	1	1	1					
15	1	129470-49540	COVER, THERMOSTAT	1	1	1					
16	1	129795-49550	GASKET	1	1	1					
16-1	1	129470-49550	GASKET	1	1	1					R
16-2	1	129795-49551	GASKET	1	1	1					N
17	1	129470-49801	THERMOSTAT, 76.5	1	1	1					
18	1	129150-49810	GASKET, THERMOSTAT	1	1	1					
18-1	1	129470-49810	GASKET, THERMOSTAT	1	1	1					R
18-2	1	129150-49811	GASKET, THERMOSTAT	1	1	1					R
19	1	26106-080252	BOLT, M8X 25 PLATED	1	1	1					
20	1	26106-080352	BOLT, M8X 35 PLATED	1	1	1					
21	1	129550-42350	V-PULLEY, D=120	1	1	1					

Remarks

(1) Interchangeable by simultaneous replacement with No.4-4 and 6-1.

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

Fig.27. COOLING FRESH WATER COOLER

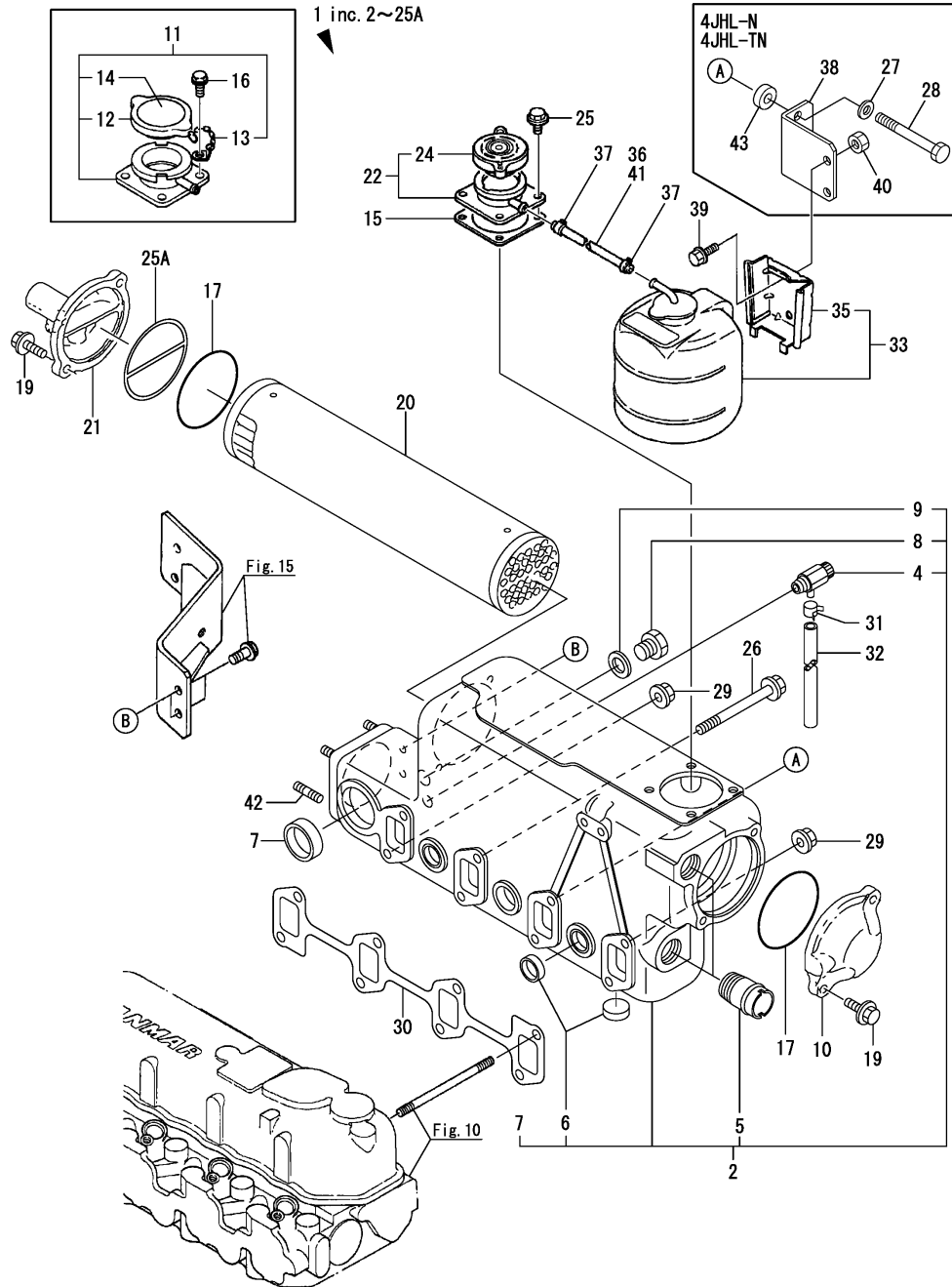


(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729495-44500	COOLER ASSY, WATER	1	1	1					
1-1	1	129491-44900	COOLER ASSY, WATER	1	1	1					N
		(A=*1990.10) (B=*1990.10) (C=*1990.10)									
2	2	129495-44000	COOLER ASSY, WATER	1	1	1					
4	3	120130-49350	COCK, 1/4	1	1	1					
4-1	3	119620-49290	COCK ASSY, 1/4	1	1	1					N
		(A=E00364) (B=E00481) (C=*2000.04)									
5	3	124160-49480	JOINT, PIPE	2	2	2					
6	3	27241-280000	PLUG, 28	7	7	7					
6-1	3	27241-280000	PLUG, 28	4	4	4					K
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
7	3	27241-400000	PLUG, 40	1	1	1					Z
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
8	3	23894-030002	PLUG, G3/8	1	1	1					
9	3	23414-170000	GASKET, 17X1.0	1	1	1					
10	2	129470-44450	COVER, B	1	1	1					
11	2	120445-44600	FILLER ASSY	1	1	1					Z
		(A=*1991.10) (B=*1991.10) (C=*1991.10)									
12	3	123682-44210	CAP, RADIATOR	1	1	1					Z
		(A=*1991.10) (B=*1991.10) (C=*1991.10)									
13	3	123682-44220	CHAIN	1	1	1					Z
		(A=*1991.10) (B=*1991.10) (C=*1991.10)									
14	3	120445-44620	LABEL, CAUTION	1	1	1					Z
		(A=*1991.10) (B=*1991.10) (C=*1991.10)									
15	2	120445-44640	GASKET	1	1	1					
16	2	26106-080142	BOLT, M8X 14 PLATED	4	4	4					Z
		(A=*1991.10) (B=*1991.10) (C=*1991.10)									
17	2	24321-000750	O-RING, 1AG75.0	2	2	2					
19	2	26106-080252	BOLT, M8X 25 PLATED	4	4	4					
20	2	129470-44110	CORE ASSY, COOLER	1	1	1					
21	2	129470-44440	COVER, A	1	1	1					
22	2	129171-44600	FILLER ASSY	1	1	1					W
		(A=*1991.10) (B=*1991.10) (C=*1991.10)									
24	3	129107-44590	CAP, RADIATOR	1	1	1					
25	2	26106-080162	BOLT, M8X 16 PLATED	4	4	4					
25A	2	120322-33050	GASKET	1	1	1					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
26	1	26106-081002	BOLT, M8X100 PLATED	4	4	4					
27	1	22137-080000	WASHER, 8	2	2	2					
28	1	26116-081052	BOLT, M8X105 PLATED	2	2	2					
28-1	1	26116-081252	BOLT, M8X125 PLATED	2	2	2					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
29	1	26366-080002	NUT, M8	2	2	2					
29-1	1	26306-080002	NUT, M8	2	2	2					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
30	1	129550-13110	GASKET	1	1	1					
31	1	124460-77680	RETAINER	1	1	1					
32	1	23061-070300	PIPE, 7X 300	1	1	1					
33	1	720445-44200	TANK ASSY, SUB	1	1	1					
35	2	120445-44540	SUPPORT	1	1	1					
36	1	120445-44560	PIPE, OVERFLOW	1	1	1					

Fig.27. COOLING FRESH WATER COOLER

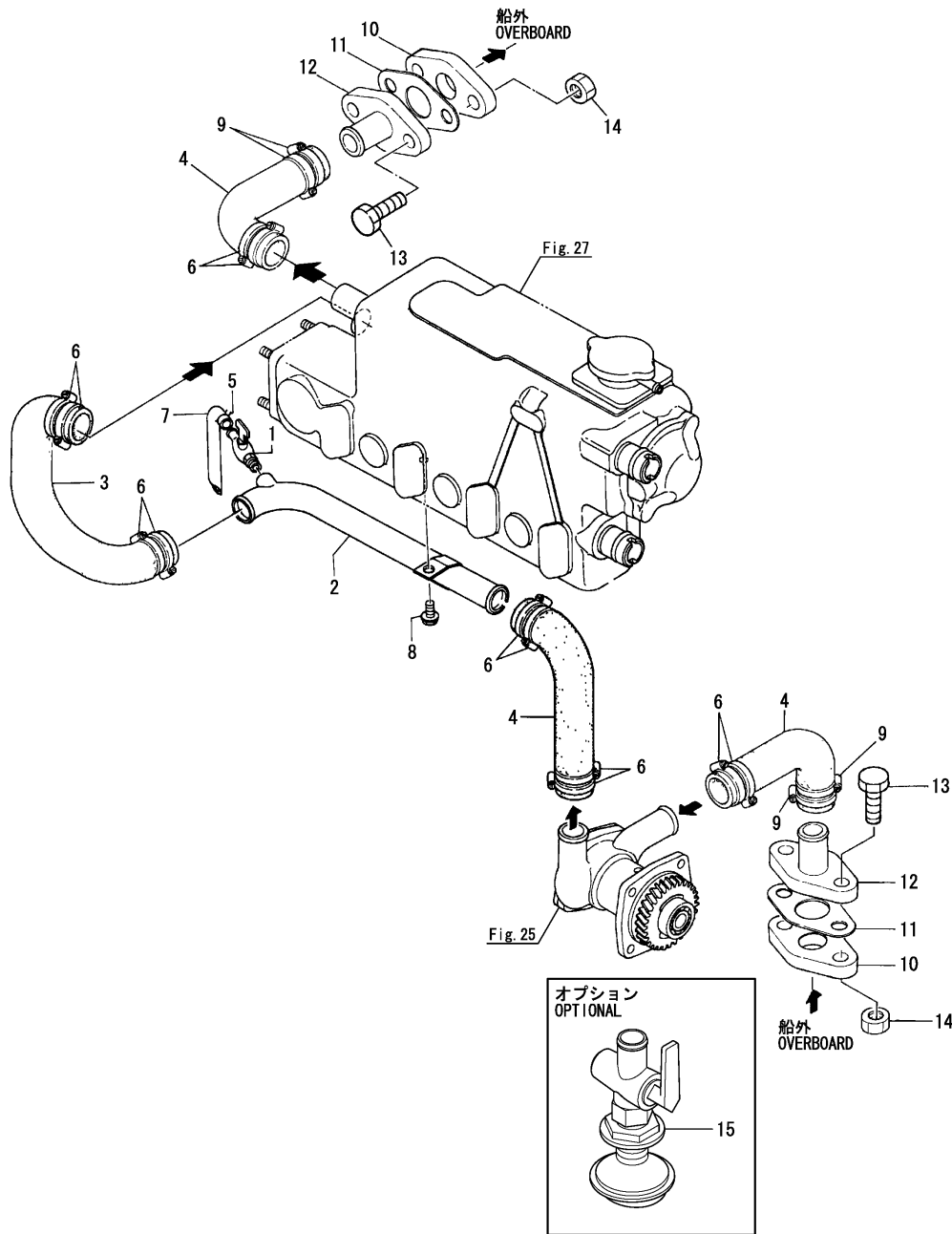


(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
37	1	23010-013000	CLAMP 13	2	2	2					
38	1	129491-44510	SUPPORT	1	1						
39	1	26106-080122	BOLT, M8X 12 PLATED	2	2	2					
40	1	26716-080002	NUT, M8	2	2						
41	1	145640-44570	PIPE					1			
42	1	26213-080182	STUD, M8X 18	4	4	4					
42-1	1	128170-13600	STUD, M8X31	4	4	4					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
42-2	1	129690-13600	STUD, M8X34	4	4	4					R
		(A=E00161) (B=E00162) (C=E00158)									
43	1	127610-03150	SPACER	6	6	6					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									

Fig.28. COOLING SEA WATER PIPE(4JHL-N)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

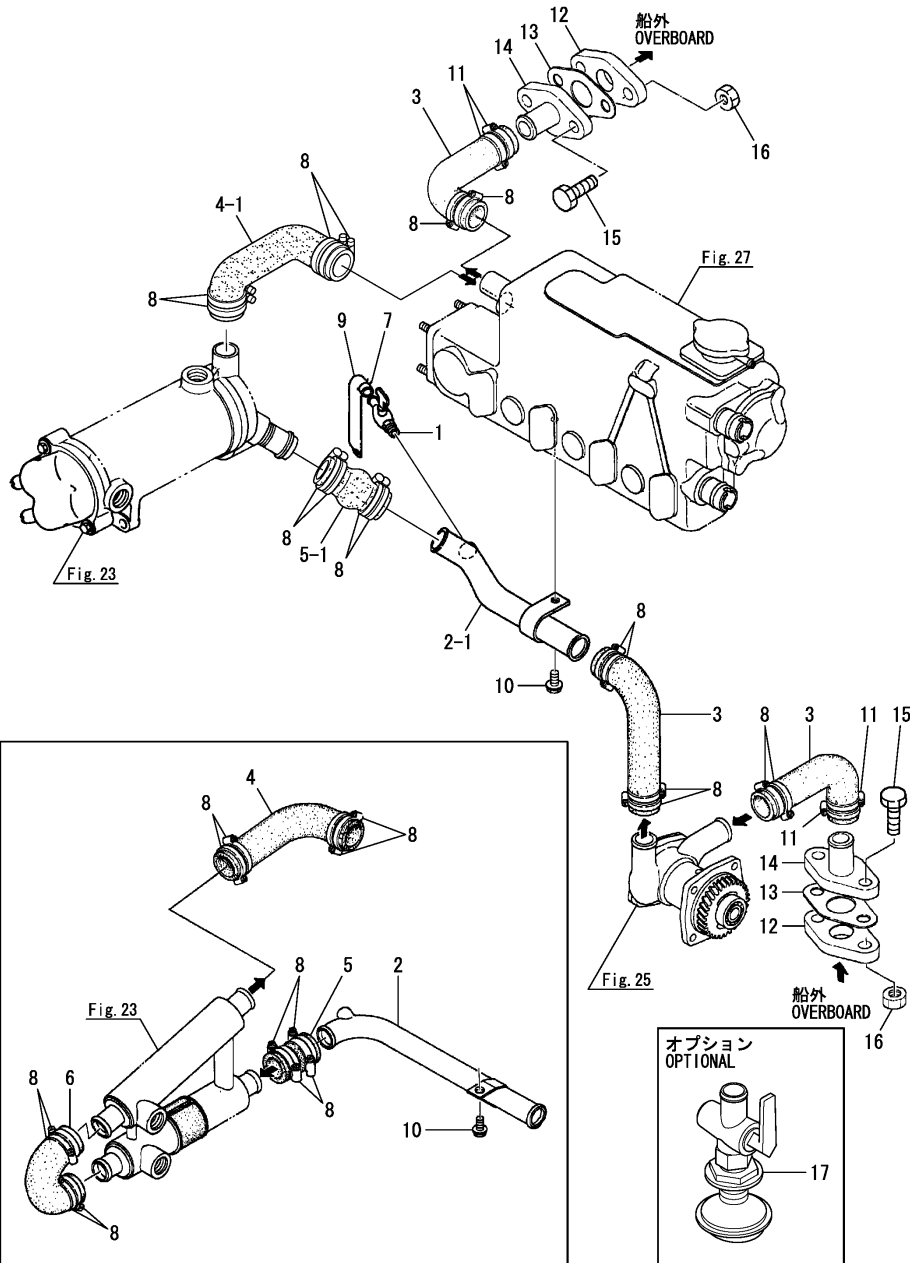
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128695-44090	COCK	1							
1-1	1	129670-49290	COCK ASSY, R1/8	1							N
(A=E00362)											
2	1	129470-49010	PIPE, WATER	1							
3	1	129491-49020	PIPE, WATER	1							
4	1	129491-49030	PIPE, WATER	3							
5	1	124722-59050	CLIP, HOSE 9	1							
5-1	1	124460-77680	RETAINER	1							R
(A=*1992.06)											
6	1	23000-035000	CLAMP, 35	6							
7	1	23061-070300	PIPE, 7X 300	1							
8	1	26106-080162	BOLT, M8X 16 PLATED	1							
9	1	23000-035000	CLAMP, 35	4							
10	1	23221-280000	FLANGE, 28	2							
11	1	23421-310000	GASKET, 31X1.5	2							
12	1	43560-501190	JOINT, HOSE	2							
13	1	26116-120402	BOLT, M12X 40 PLATED	4							
14	1	26716-120002	NUT, M12	4							
15	1	43662-020060	COCK ASSY, KINGSTON	1							W
(A=E00225)											

Fig.29. COOLING SEA WATER PIPE(4JHL-TN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

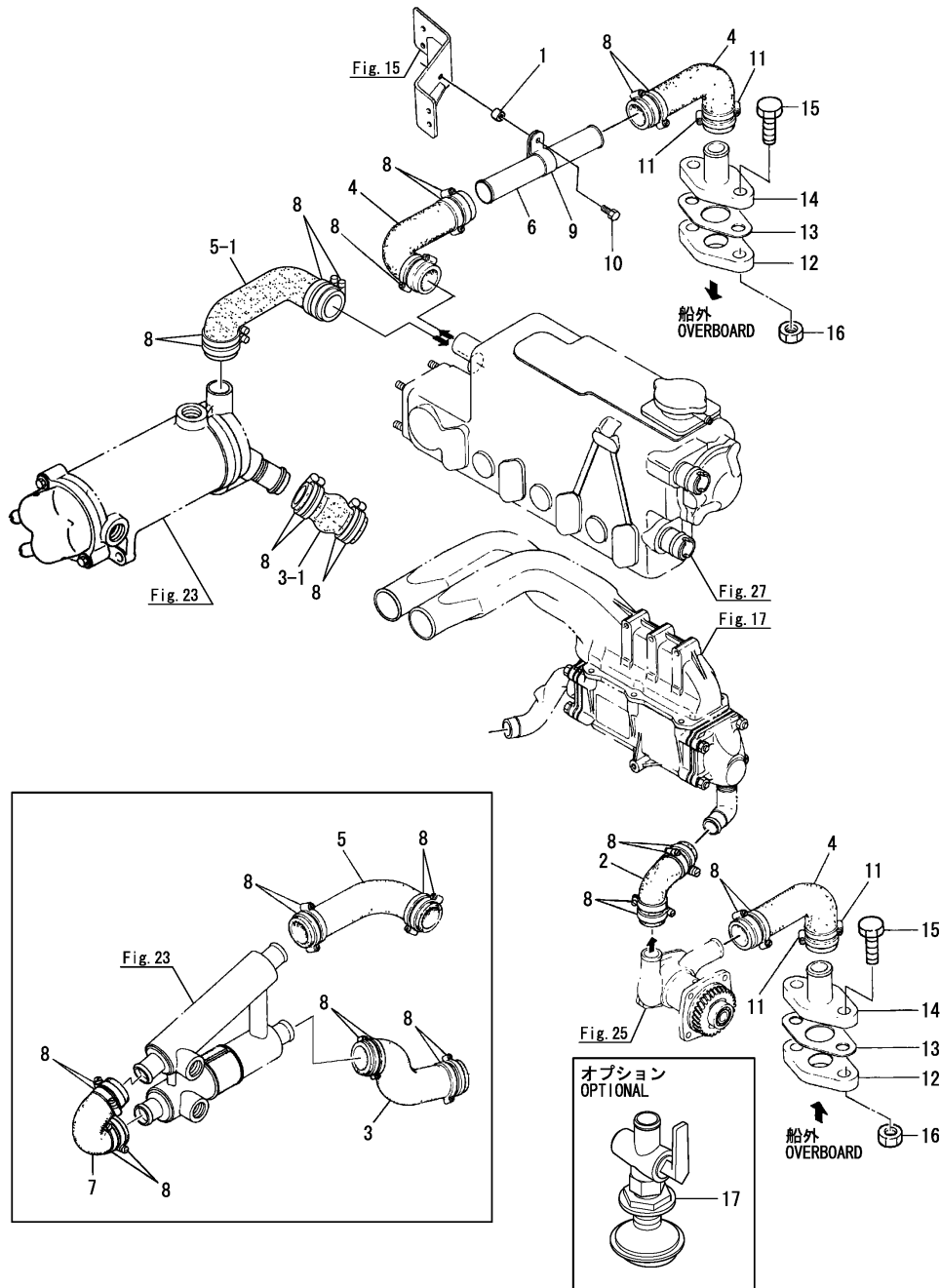


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128695-44090	COCK		1						
1-1	1	129670-49290 (B=E00472)	COCK ASSY, R1/8		1						N
2	1	129470-49010	PIPE, WATER		1						
2-1	1	129495-49010 (B=E00452)	PIPE, WATER		1						S
3	1	129491-49030	PIPE, WATER		3						
4	1	129496-49030	PIPE, WATER		1						
4-1	1	129493-49030 (B=E00452)	PIPE, WATER		1						S
5	1	129493-49110	JOINT, RUBBER		1						
5-1	1	129496-49110 (B=E00452)	COUPLING,RUBBER		1						S
6	1	129491-49240 (B=E00452)	JOINT, RUBBER		1						Z
7	1	124722-59050	CLIP, HOSE 9		1						
7-1	1	124460-77680 (B=*1992.06)	RETAINER		1						R
8	1	23000-035000	CLAMP, 35		20						
9	1	23061-070300	PIPE, 7X 300		1						
10	1	26106-080162	BOLT, M8X 16 PLATED		1						
11	1	23000-035000	CLAMP, 35		4						
12	1	23221-280000	FLANGE, 28		2						
13	1	23421-310000	GASKET, 31X1.5		2						
14	1	43560-501190	JOINT, HOSE		2						
15	1	26116-120402	BOLT, M12X 40 PLATED		4						
16	1	26716-120002	NUT, M12		4						
17	1	43662-020060 (B=E00223)	COCK ASSY, KINGSTON		1						W

Fig.30. COOLING SEA WATER PIPE(4JHL-HTN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

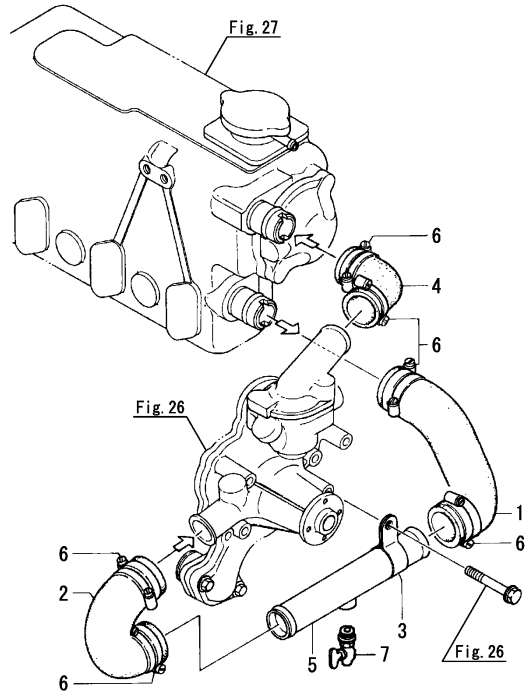


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123372-03150	SPACER			1					
2	1	129496-49010	PIPE, WATER			1					
3	1	129496-49020	PIPE, WATER			1					
3-1	1	129496-49110	COUPLING,RUBBER (C=E00304)			1					S
4	1	129491-49030	PIPE, WATER			3					
5	1	129496-49030	PIPE, WATER			1					
5-1	1	129493-49030	PIPE, WATER (C=E00304)			1					S
6	1	129490-49070	JOINT			1					
7	1	129491-49240	JOINT, RUBBER (C=E00304)			1					Z
8	1	23000-035000	CLAMP, 35			24					
9	1	23297-250081	CLAMP, A27X12			1					
10	1	26106-080202	BOLT, M8X 20 PLATED			1					
11	1	23000-035000	CLAMP, 35			4					
12	1	23221-280000	FLANGE, 28			2					
13	1	23421-310000	GASKET, 31X1.5			2					
14	1	43560-501190	JOINT, HOSE			2					
15	1	26116-120402	BOLT, M12X 40 PLATED			4					
16	1	26716-120002	NUT, M12			4					
17	1	43662-020060	COCK ASSY, KINGSTON (C=E00238)			1					W

Fig.31. COOLING FRESH WATER PIPE

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

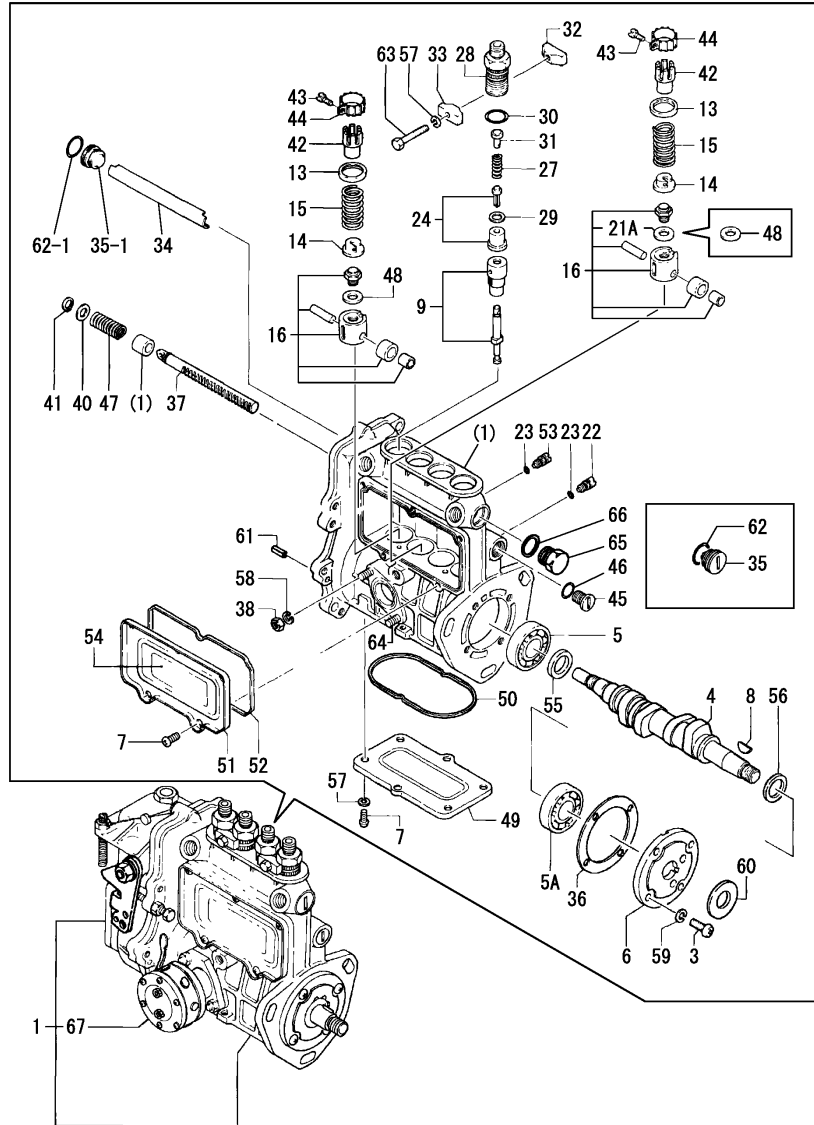


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-49200	JOINT, RUBBER	1	1	1					
2	1	129491-49240	JOINT, RUBBER	1	1	1					
3	1	129470-49220	RETAINER	1	1	1					
4	1	129491-49260	PIPE, WATER	1	1	1					
5	1	129470-49250	PIPE, WATER	1	1	1					
6	1	23000-041000	CLAMP, 41	12	12	12					
7	1	128695-44090	COCK	1	1	1					
7-1	1	129670-49290	COCK ASSY, R1/8	1	1	1					N
		(A=E00362) (B=E00472) (C=E00321)									

Fig.32. FUEL INJECTION PUMP(4JHL-N)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



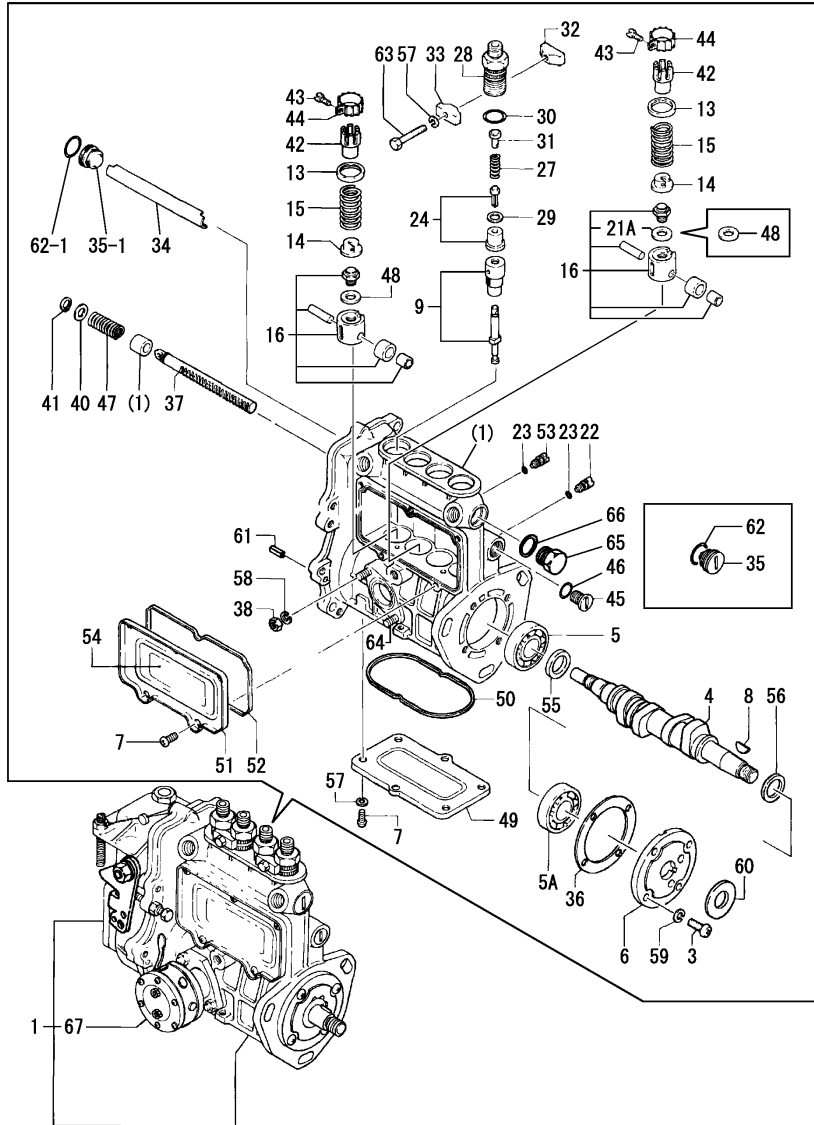
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729491-51300	PUMP ASSY, INJECTION	1							
3	3	26557-060162	SCREW M 6X 16	9							
3-1	3	26022-060162	SCREW, M6X16	4							N
(A=EXXXXX)											
4	3	129470-51040	CAMSHAFT	1							
5	3	129155-51050	BEARING, 17BM001D	2							
5-1	3	129155-51050	BEARING, 17BM001D	1							K
(A=*1986.10)											
5-2	3	129155-51051	BEARING	1							R
(A=EXXXXX)											
5A	3	24101-063034	BEARING, BALL 6303	1							W
(A=*1986.10)											
6	3	129155-51060	SUPPORT, CAMSHAFT	1							
7	3	26557-050102	SCREW, M5X10	6							
7-1	3	26022-050102	SCREW, M5X10	11							N
(A=EXXXXX)											
7-2	3	26022-050122	SCREW, M5X12	11							N
(A=E00363)											
8	3	122710-51090	KEY	1							
9	3	129400-51100	PLUNGER ASSY	4							
13	3	174307-51170	RETAINER, SPRING A	4							
13-1	3	158600-51170	RETAINER, SPRING	4							R
(A=EXXXXX)											
14	3	129155-51180	RETAINER, SPRING	4							
15	3	124950-51190	SPRING, PLUNGER	4							
16	3	129155-51200	TAPPET ASSY	4							
21A	4	129155-51630	SHIM, T=1.2	4							W
(A=EXXXXX)											
22	3	129155-51270	STOPPER, TAPPET	4							
22-1	3	158600-51270	STOPPER, TAPPET	4							R
(A=EXXXXX)											
23	3	129155-51280	O-RING, S6	5							
23-1	3	129155-51280	O-RING, S6	4							K
(A=EXXXXX)											
24	3	128170-51300	VALVE ASSY, DELIVERY	4							
27	3	129155-51330	SPRING, DELIVERY	4							
27-1	3	129155-51320	SPRING, DELIVERY	4							N
(A=EXXXXX)											
28	3	129155-51340	RETAINER	4							
29	3	124550-51350	GASKET, DELIVERY	4							
30	3	124550-51370	O-RING	4							
30-1	3	24316-000150	O-RING, 4DP15.0	4							N
(A=EXXXXX)											
31	3	129155-51370	STOPPER, VALVE	4							
32	3	129155-51380	STOPPER	2							
33	3	129155-51390	STOPPER	2							
34	3	129555-51400	DEFLECTOR	1							
35	3	129155-51410	BOLT	2							
35-1	3	129155-51410	BOLT	1							K
(A=*1985.10)											
35-2	3	158600-51410	PLUG, DEFLECTOR	1							R

N:Old $\frac{Yes}{No}$ New, Q:Old $\frac{No}{Yes}$ New, R:Old $\frac{Yes}{Yes}$ New, S:Old $\frac{No}{No}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.32. FUEL INJECTION PUMP(4JHL-N)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



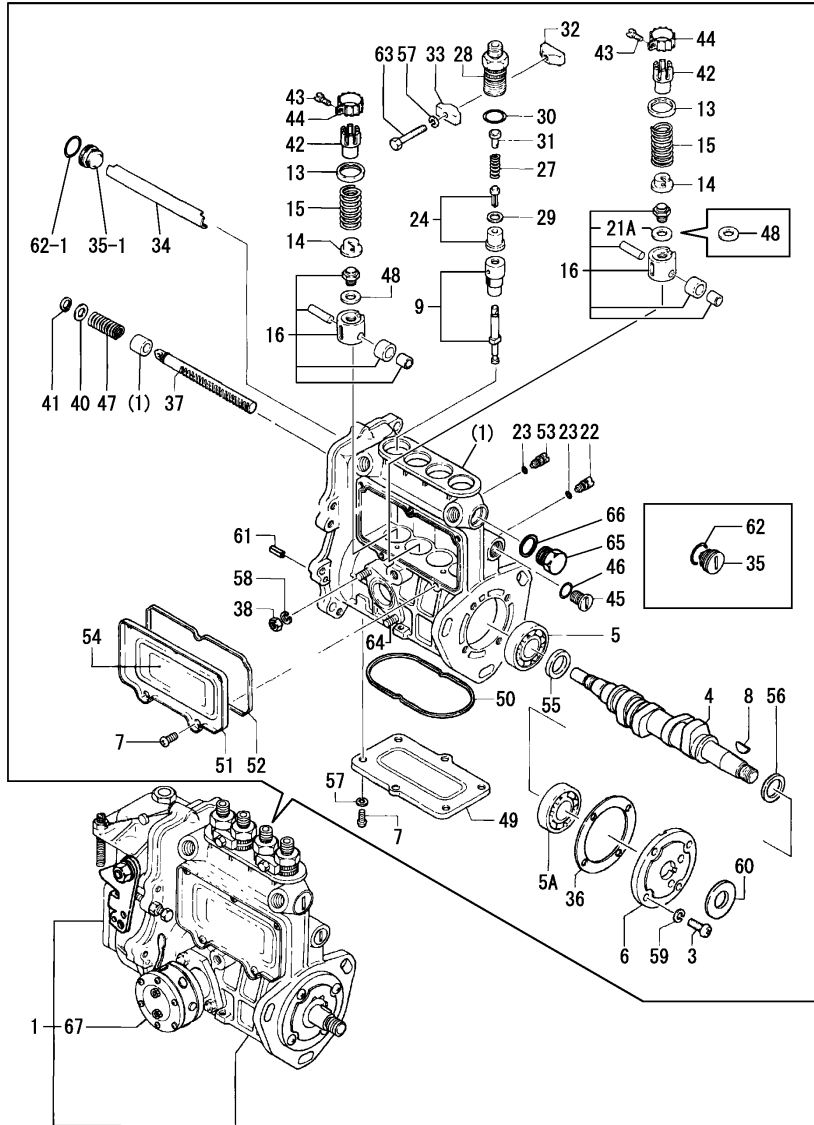
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
		(A=XXXXXX)									
36	3	129155-51450	SHIM SET, ADJUSTING	1							
37	3	129555-51500	RACK, CONTROL	1							
38	3	26716-060002	NUT, M6	2							
38-1	3	119717-51860	NUT, M6	2							R
		(A=XXXXXX)									
40	3	129155-51530	SPACER	1							
41	3	129155-51540	CIRCLIP	1							
42	3	129155-51550	PINION, CONTROL	4							
43	3	122117-51560	SCREW	4							
43-1	3	129100-51570	SCREW	4							N
		(A=XXXXXX)									
44	3	174307-51560	PINION	4							
44-1	3	129100-51560	PINION	4							N
		(A=XXXXXX)									
45	3	129155-51570	PLUG, M12	1							
45-1	3	158600-51570	PLUG	1							R
		(A=XXXXXX)									
46	3	129155-51580	O-RING	1							
47	3	129155-51591	SPRING, RACK	1							
48	3	129155-51600	SHIM SET, ADJUSTING	4							Z
		(A=XXXXXX)									
49	3	129555-51700	COVER	1							
49-1	3	129555-51701	COVER	1							N
		(A=E00363)									
50	3	129555-51710	GASKET	1							
50-1	3	129555-51711	GASKET	1							N
		(A=XXXXXX)									
51	3	129555-51750	COVER	1							
51-1	3	129555-51751	COVER	1							N
		(A=E00363)									
52	3	129555-51760	GASKET	1							
52-1	3	129555-51761	GASKET	1							N
		(A=XXXXXX)									
53	3	129155-51790	STOOPER, RACK	1							
53-1	3	158600-51790	STOOPER, RACK	1							R
		(A=XXXXXX)									
54	3	129156-51910	LABEL, CAUTION	1							
55	3	129155-51930	SPACER, T=3.25	1							
56	3	129155-51940	SPACER, T=1.5	1							
57	3	22217-050000	WASHER, SPRING 5	2							
58	3	22217-060000	WASHER, SPRING 6	2							Z
		(A=XXXXXX)									
59	3	22287-060000	WASHER 6	4							Z
		(A=XXXXXX)									
60	3	22287-120000	WASHER, 12	1							Z
		(A=XXXXXX)									
61	3	22351-050010	PIN, SPRING 5.0X10	2							
62	3	24341-000160	O-RING, 1AS16.0	2							
62-1	3	24341-000160	O-RING, 1AS16.0	1							K
		(A=*1985.10)									

N:Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \end{matrix}$ New, S:Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.32. FUEL INJECTION PUMP(4JHL-N)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

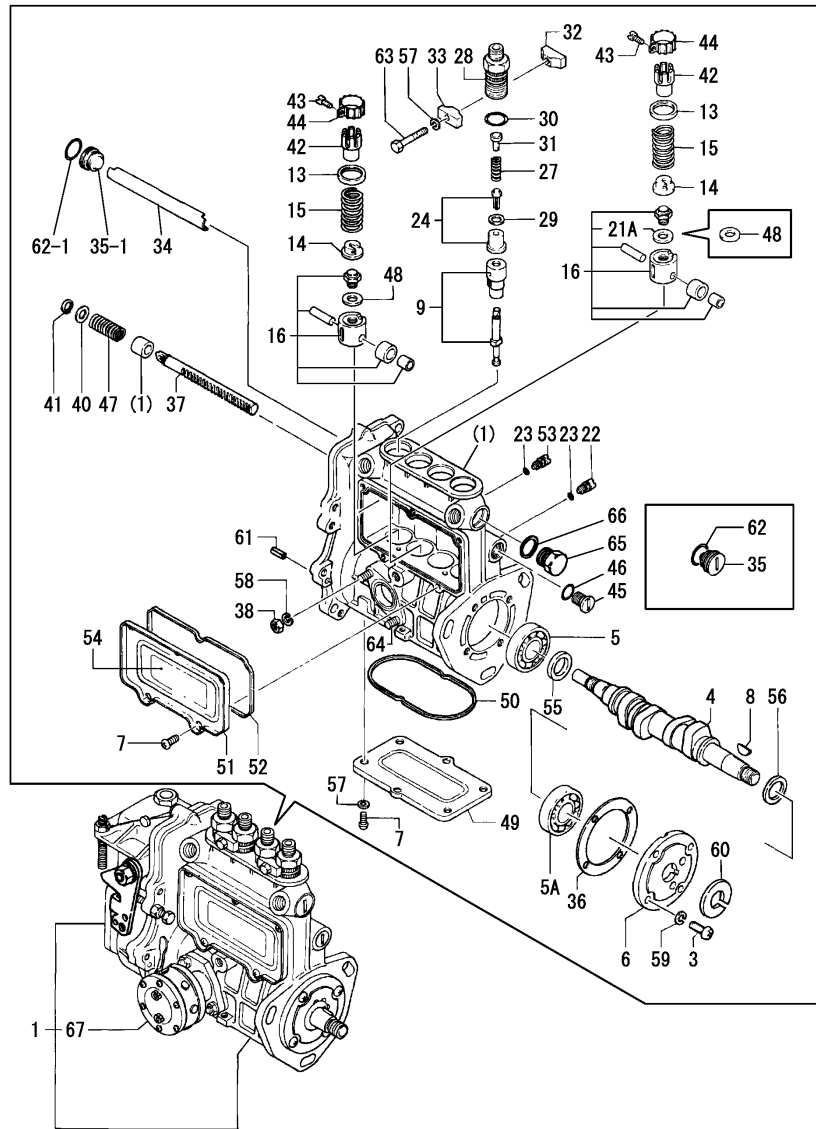


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
62-2	3	119717-51420	O-RING	1							N
		(A=EXXXXX)									
63	3	26116-050302	BOLT, M5X 30 PLATED	2							
64	3	26216-060142	STUD, M6X 14	2							
64-1	3	129155-51020	STUD	2							N
		(A=*1987.12)									
65	3	129155-51420	PLUG, M16	1							W
		(A=*1985.10)									
65-1	3	158600-51420	PLUG, DEFLECTOR	1							R
		(A=EXXXXX)									
66	3	43400-500490	SEAL WASHER 16S	1							W
		(A=*1985.10)									
66-1	3	22190-160002	WASHER, SEAL 16	1							N
		(A=E00288)									
67	2	129491-52000	PUMP ASSY, FUEL FEED	1							

Fig.33. FUEL INJECTION PUMP(4JHL-TN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

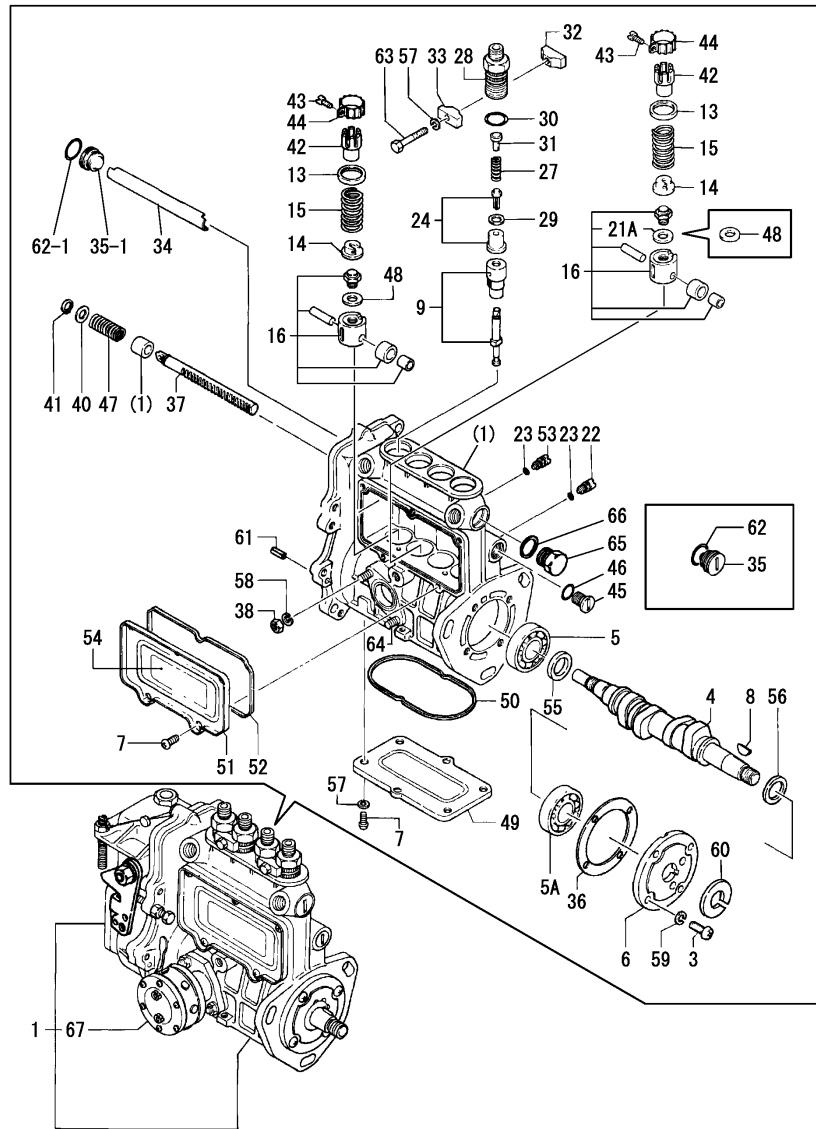
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729493-51300	PUMP ASSY, INJECTION		1						
3	3	26557-060162	SCREW M 6X 16		9						
3-1	3	26022-060162	SCREW, M6X16		4						N
				(B=EXXXXX)							
4	3	129470-51040	CAMSHAFT		1						
5	3	129155-51050	BEARING, 17BM001D		2						
5-1	3	129155-51050	BEARING, 17BM001D		1						K
				(B=*1986.10)							
5-2	3	129155-51051	BEARING		1						R
				(B=EXXXXX)							
5A	3	24101-063034	BEARING, BALL 6303		1						W
				(B=*1986.10)							
6	3	129155-51060	SUPPORT, CAMSHAFT		1						
7	3	26557-050102	SCREW, M5X10		6						
7-1	3	26022-050102	SCREW, M5X10		11						N
				(B=EXXXXX)							
7-2	3	26022-050122	SCREW, M5X12		11						N
				(B=E00479)							
8	3	122710-51090	KEY		1						
9	3	129470-51101	PLUNGER ASSY		4						
13	3	174307-51170	RETAINER, SPRING A		4						
13-1	3	158600-51170	RETAINER, SPRING		4						R
				(B=EXXXXX)							
14	3	129155-51180	RETAINER, SPRING		4						
15	3	124950-51190	SPRING, PLUNGER		4						
16	3	129155-51200	TAPPET ASSY		4						
21A	4	129155-51630	SHIM, T=1.2		4						W
				(B=EXXXXX)							
22	3	129155-51270	STOPPER, TAPPET		4						
22-1	3	158600-51270	STOPPER, TAPPET		4						R
				(B=EXXXXX)							
23	3	129155-51280	O-RING, S6		5						
23-1	3	129155-51280	O-RING, S6		4						K
				(B=EXXXXX)							
24	3	129100-51300	VALVE ASSY, DELIVERY		4						
27	3	129155-51330	SPRING, DELIVERY		4						
27-1	3	129155-51320	SPRING, DELIVERY		4						N
				(B=EXXXXX)							
28	3	129155-51340	RETAINER		4						
29	3	124550-51350	GASKET, DELIVERY		4						
30	3	124550-51370	O-RING		4						
30-1	3	24316-000150	O-RING, 4DP15.0		4						N
				(B=EXXXXX)							
31	3	129155-51370	STOPPER, VALVE		4						
32	3	129155-51380	STOPPER		2						
33	3	129155-51390	STOPPER		2						
34	3	129555-51400	DEFLECTOR		1						
35	3	129155-51410	BOLT		2						
35-1	3	129155-51410	BOLT		1						K
				(B=*1985.10)							
35-2	3	158600-51410	PLUG, DEFLECTOR		1						R

N:Old \xrightarrow{Yes} New, Q:Old \xrightarrow{No} New, R:Old \xrightarrow{Yes} New, S:Old \xrightarrow{No} New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.33. FUEL INJECTION PUMP(4JHL-TN)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

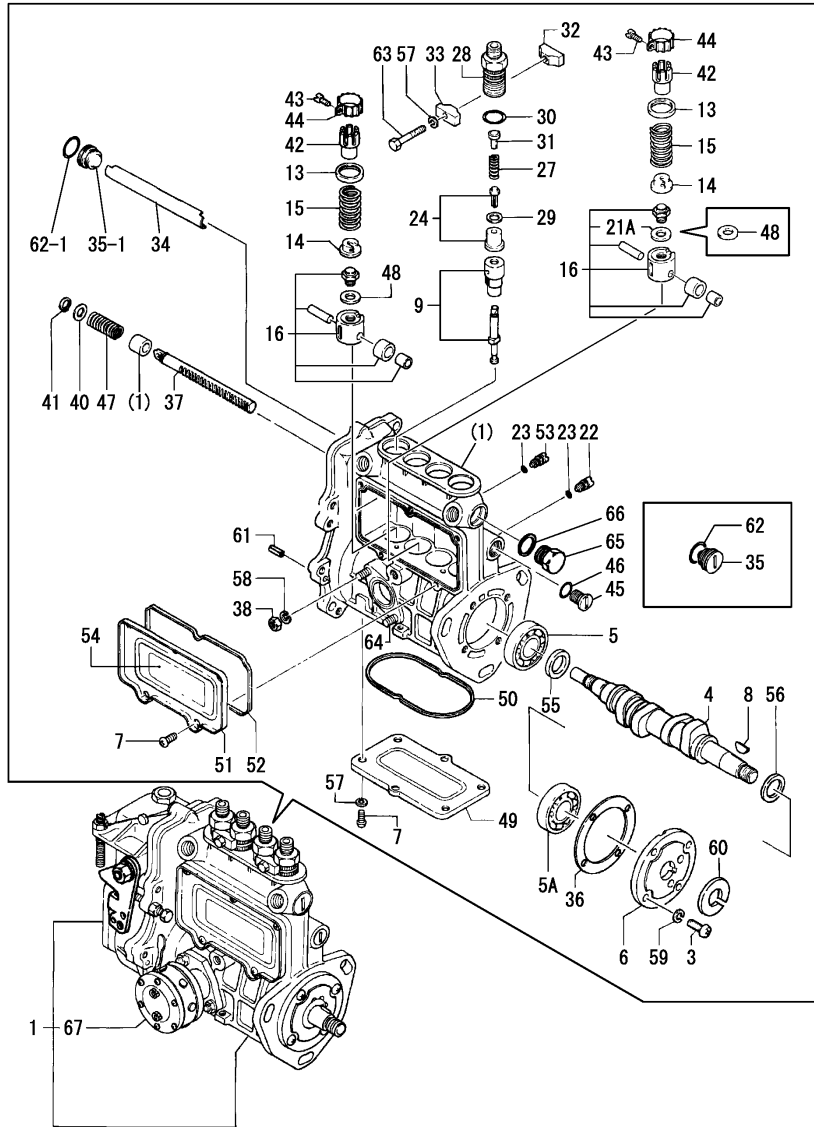
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
(B=EXXXXX)											
36	3	129155-51450	SHIM SET, ADJUSTING		1						
37	3	129555-51500	RACK, CONTROL		1						
38	3	26716-060002	NUT, M6		2						
38-1	3	119717-51860	NUT, M6		2						R
(B=EXXXXX)											
40	3	129155-51530	SPACER		1						
41	3	129155-51540	CIRCLIP		1						
42	3	129155-51550	PINION, CONTROL		4						
43	3	122117-51560	SCREW		4						
43-1	3	129100-51570	SCREW		4						N
(B=EXXXXX)											
44	3	174307-51560	PINION		4						
44-1	3	129100-51560	PINION		4						N
(B=EXXXXX)											
45	3	129155-51570	PLUG, M12		1						
45-1	3	158600-51570	PLUG		1						R
(B=EXXXXX)											
46	3	129155-51580	O-RING		1						
47	3	129155-51591	SPRING, RACK		1						
48	3	129155-51600	SHIM SET, ADJUSTING		4						Z
(B=EXXXXX)											
49	3	129555-51700	COVER		1						
49-1	3	129555-51701	COVER		1						N
(B=E00479)											
50	3	129555-51710	GASKET		1						
50-1	3	129555-51711	GASKET		1						N
(B=EXXXXX)											
51	3	129555-51750	COVER		1						
51-1	3	129555-51751	COVER		1						N
(B=E00479)											
52	3	129555-51760	GASKET		1						
52-1	3	129555-51761	GASKET		1						N
(B=EXXXXX)											
53	3	129155-51790	STOOPER, RACK		1						
53-1	3	158600-51790	STOOPER, RACK		1						R
(B=EXXXXX)											
54	3	129156-51910	LABEL, CAUTION		1						
55	3	129155-51930	SPACER, T=3.25		1						
56	3	129155-51940	SPACER, T=1.5		1						
57	3	22217-050000	WASHER, SPRING 5		2						
58	3	22217-060000	WASHER, SPRING 6		2						Z
(B=EXXXXX)											
59	3	22287-060000	WASHER 6		4						Z
(B=EXXXXX)											
60	3	22287-120000	WASHER, 12		1						Z
(B=EXXXXX)											
61	3	22351-050010	PIN, SPRING 5.0X10		2						
62	3	24341-000160	O-RING, 1AS16.0		2						
62-1	3	24341-000160	O-RING, 1AS16.0		1						K
(B=*1985.10)											

Fig.33. FUEL INJECTION PUMP(4JHL-TN)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

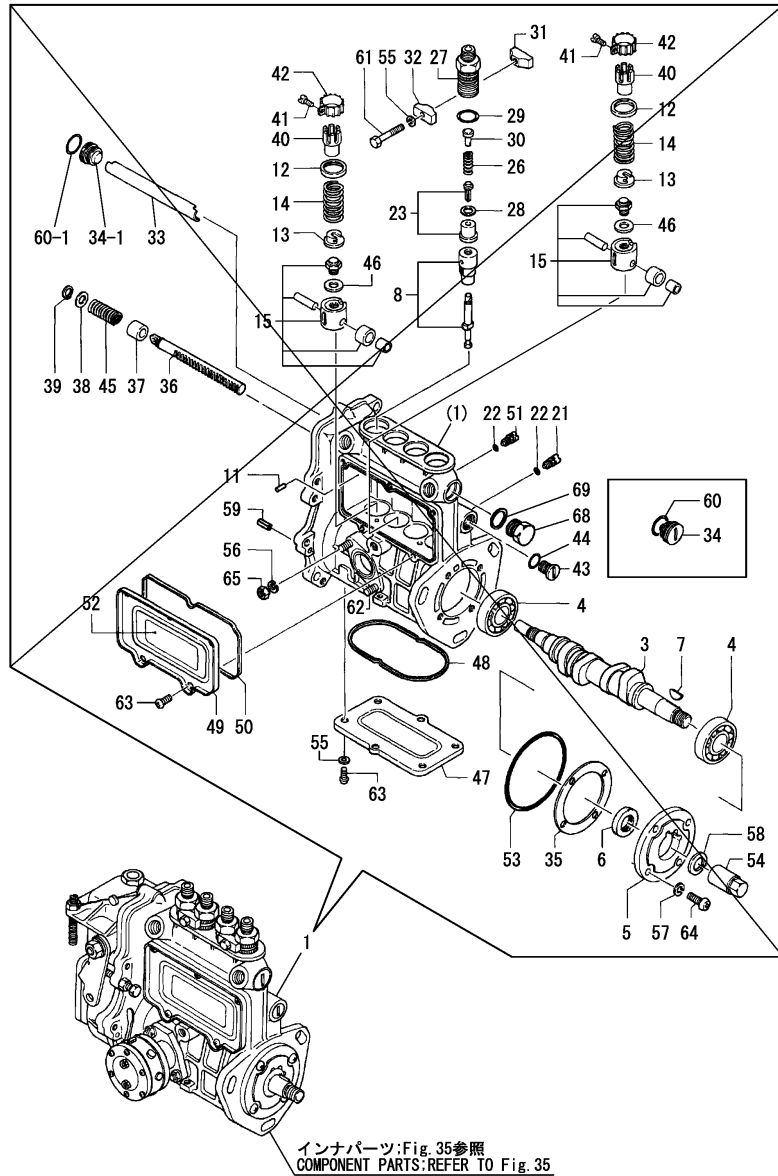


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
62-2	3	119717-51420	O-RING (B=EXXXXX)		1						N
63	3	26116-050302	BOLT, M5X 30 PLATED		2						
64	3	26216-060142	STUD, M6X 14		2						
64-1	3	129155-51020	STUD (B=*1987.12)		2						N
65	3	129155-51420	PLUG, M16 (B=*1985.10)		1						W
65-1	3	158600-51420	PLUG, DEFLECTOR (B=EXXXXX)		1						R
66	3	43400-500490	SEAL WASHER 16S (B=*1985.10)		1						W
66-1	3	22190-160002	WASHER, SEAL 16 (B=E00374)		1						N
67	2	129491-52000	PUMP ASSY, FUEL FEED		1						

Fig.34. FUEL INJECTION PUMP(4JHL-HTN)(UNUSED)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

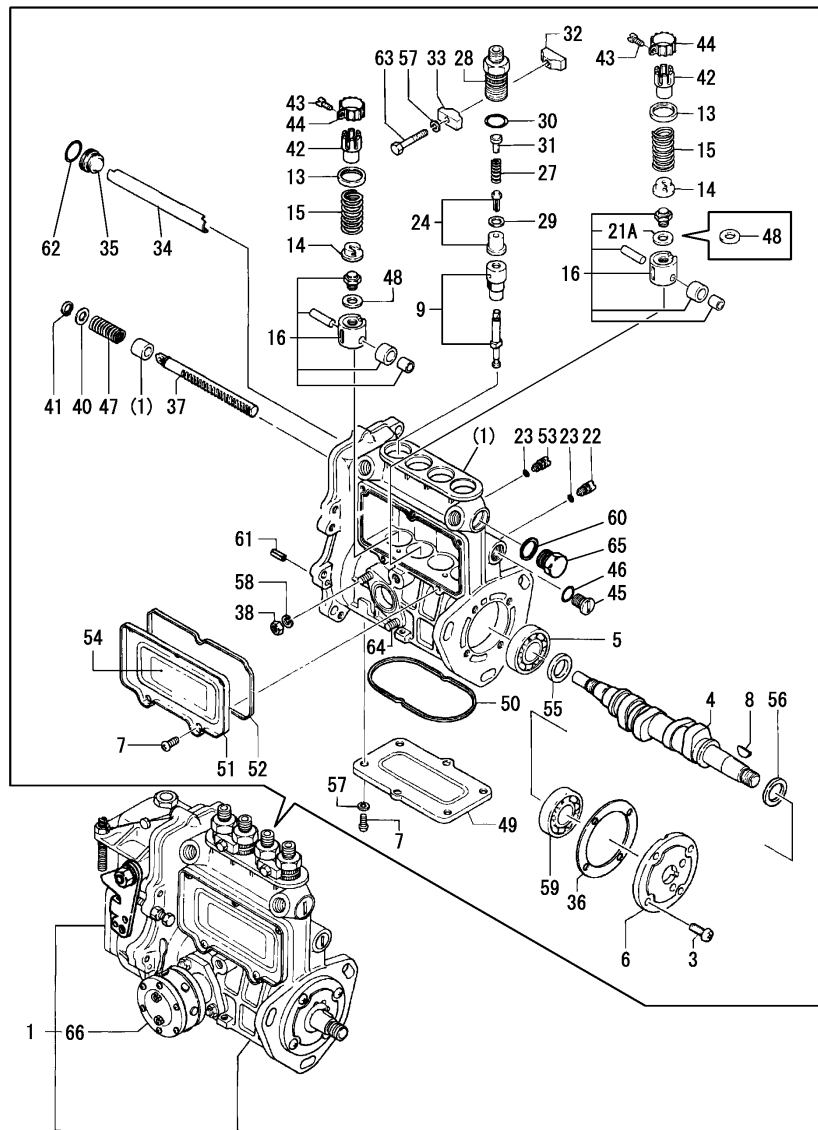
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	729496-51300	PUMP ASSY, INJECTION			1						1

Remarks
(1)Refer to Fig.35 for the component parts.

Fig.35. FUEL INJECTION PUMP(4JHL-HTN)

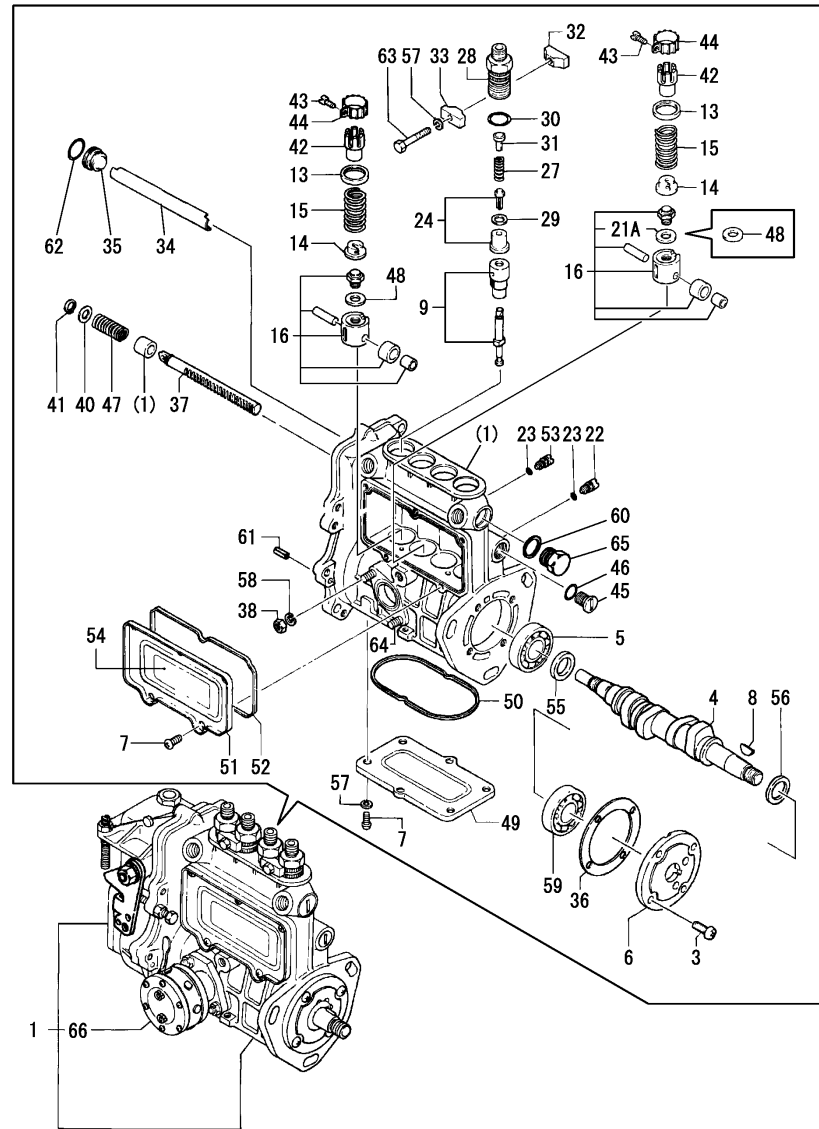


(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729496-51300	PUMP ASSY, INJECTION			1					
3	3	26022-060162	SCREW, M6X16			4					
4	3	129470-51040	CAMSHAFT			1					
5	3	129155-51050	BEARING, 17BM001D			1					
5-1	3	129155-51051	BEARING (C=EXXXXX)			1					R
6	3	129155-51060	SUPPORT, CAMSHAFT			1					
7	3	26022-050102	SCREW, M5X10			11					
7-1	3	26022-050122	SCREW, M5X12 (C=E00326)			11					N
8	3	122710-51090	KEY			1					
9	3	129470-51101	PLUNGER ASSY			4					
13	3	174307-51170	RETAINER, SPRING A			4					
13-1	3	158600-51170	RETAINER, SPRING (C=EXXXXX)			4					R
14	3	129155-51180	RETAINER, SPRING			4					
15	3	124950-51190	SPRING, PLUNGER			4					
16	3	129155-51200	TAPPET ASSY			4					
21A	4	129155-51630	SHIM, T=1.2 (C=EXXXXX)			4					W
22	3	129155-51270	STOPPER, TAPPET			4					
22-1	3	158600-51270	STOPPER, TAPPET (C=EXXXXX)			4					R
23	3	129155-51280	O-RING, S6			4					
24	3	129100-51300	VALVE ASSY, DELIVERY			4					
27	3	129155-51320	SPRING, DELIVERY			4					
28	3	129155-51340	RETAINER			4					
29	3	124550-51350	GASKET, DELIVERY			4					
30	3	124550-51370	O-RING			4					
30-1	3	24316-000150	O-RING, 4DP15.0 (C=EXXXXX)			4					N
31	3	129155-51370	STOPPER, VALVE			4					
32	3	129155-51380	STOPPER			2					
33	3	129155-51390	STOPPER			2					
34	3	129555-51400	DEFLECTOR			1					
35	3	129155-51410	BOLT			1					
35-1	3	158600-51410	PLUG, DEFLECTOR (C=EXXXXX)			1					R
36	3	129155-51450	SHIM SET, ADJUSTING			1					
37	3	129555-51500	RACK, CONTROL			1					
38	3	26716-060002	NUT, M6			2					
38-1	3	119717-51860	NUT, M6 (C=EXXXXX)			2					R
40	3	129155-51530	SPACER			1					
41	3	129155-51540	CIRCLIP			1					
42	3	129155-51550	PINION, CONTROL			4					
43	3	122117-51560	SCREW			4					
43-1	3	129100-51570	SCREW (C=EXXXXX)			4					N
44	3	174307-51560	PINION			4					
44-1	3	129100-51560	PINION			4					N

Fig.35. FUEL INJECTION PUMP(4JHL-HTN)

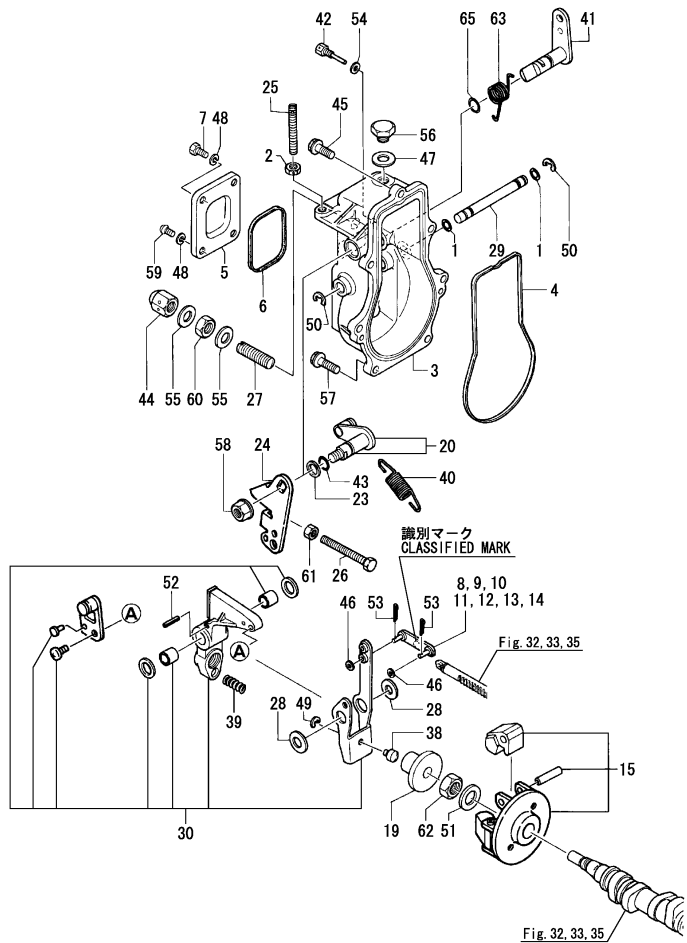


(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
			(C=EXXXXX)								
45	3	129155-51570	PLUG, M12			1					
45-1	3	158600-51570	PLUG			1					R
			(C=EXXXXX)								
46	3	129155-51580	O-RING			1					
47	3	129155-51591	SPRING, RACK			1					
48	3	129155-51600	SHIM SET, ADJUSTING			4					Z
			(C=EXXXXX)								
49	3	129555-51700	COVER			1					
49-1	3	129555-51701	COVER			1					N
			(C=E00326)								
50	3	129555-51710	GASKET			1					
50-1	3	129555-51711	GASKET			1					N
			(C=EXXXXX)								
51	3	129555-51750	COVER			1					
51-1	3	129555-51751	COVER			1					N
			(C=E00326)								
52	3	129555-51760	GASKET			1					
52-1	3	129555-51761	GASKET			1					N
			(C=EXXXXX)								
53	3	129155-51790	STOOPER, RACK			1					
53-1	3	158600-51790	STOOPER, RACK			1					R
			(C=EXXXXX)								
54	3	129156-51910	LABEL, CAUTION			1					
55	3	129155-51930	SPACER, T=3.25			1					
56	3	129155-51940	SPACER, T=1.5			1					
57	3	22217-050000	WASHER, SPRING 5			2					
58	3	22217-060000	WASHER, SPRING 6			2					Z
			(C=EXXXXX)								
59	3	24101-063034	BEARING, BALL 6303			1					
60	3	22190-160002	WASHER, SEAL 16			1					
61	3	22351-050010	PIN, SPRING 5.0X10			2					
62	3	24341-000160	O-RING, 1AS16.0			1					
62-1	3	119717-51420	O-RING			1					N
			(C=EXXXXX)								
63	3	26116-050309	BOLT M 5X 30 PLATED			2					
63-1	3	26116-050302	BOLT, M5X 30 PLATED			2					N
			(C=EXXXXX)								
64	3	129155-51020	STUD			2					
65	3	129155-51420	PLUG, M16			1					
65-1	3	158600-51420	PLUG, DEFLECTOR			1					R
			(C=EXXXXX)								
66	2	129491-52000	PUMP ASSY, FUEL FEED			1					

Fig.36. GOVERNOR(UP TO JAN.,1992)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

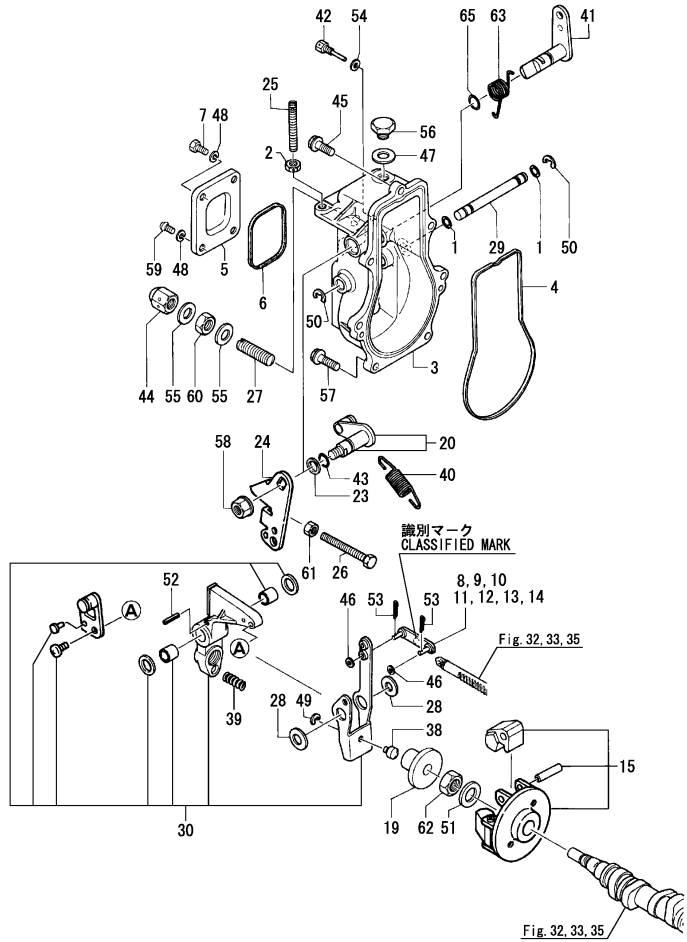
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	129155-51280	O-RING, S6	2	2	2					
2	2	124550-66370	NUT, M6	1	1	1					
3	2	129155-61010	CASE, GOVERNOR	1	1	1					
3-1	2	129155-61011	CASE, GOVERNOR	1	1	1					S
		(A=*1988.09)	(B=*1988.09)	(C=*1988.09)							
4	2	129155-61050	GASKET	1	1	1					
5	2	129155-61060	COVER, GOVERNOR CASE	1	1	1					
6	2	129155-61070	GASKET	1	1	1					
7	2	129155-61090	BOLT	1	1	1					Z
		(A=*1988.09)	(B=*1988.09)	(C=*1988.09)							
8	2	129155-61120	LINK, L=30 MARK 0	1	1	1					1
9	2	129155-61130	LINK, L=31 MARK 1	1	1	1					2
10	2	129155-61140	LINK, L=30.5 MARK 05	1	1	1					3
11	2	129155-61150	LINK, L=33	1	1	1					4
12	2	129155-61160	LINK, L=34 MARK4	1	1	1					5
13	2	129155-61170	LINK, L=28 MARK 8	1	1	1					6
14	2	129155-61180	LINK, L=29 MARK 9	1	1	1					7
15	2	171488-61200	WEIGHT ASSY,GOVERNOR	1	1	1					
19	2	129155-61341	SLEEVE	1	1	1					
20	2	129100-61400	SHAFT ASSY	1	1	1					
23	2	129155-61430	SPACER	1	1	1					
24	2	129100-61440	LEVER, CONTROL	1	1	1					
25	2	129155-61450	BOLT, LIMITER	1	1	1					
26	2	129155-61460	BOLT, IDLE	1	1	1					
27	2	129155-61470	BOLT, CONTROL	1	1	1					
28	2	129155-61480	SPACER ASSY	2	2	2					
29	2	129155-61490	SHAFT	1	1	1					
30	2	129100-61500	LEVER ASSY, GOVERNOR	1	1	1					
38	2	129155-61540	SHIFTER	1	1	1					
39	2	129100-61650	SPRING, CONTROLLER	1	1	1					
40	2	129477-61700	SPRING, GOVERNOR	1							
40A	2	129477-61710	SPRING, GOVERNOR		1						
40B	2	129477-61720	SPRING, GOVERNOR			1					
41	2	129470-61800	LEVER, STOP	1	1	1					
41-1	2	129470-61801	LEVER, STOP	1	1	1					S
		(A=*1988.09)	(B=*1988.09)	(C=*1988.09)							
42	2	129155-61810	PIN	1	1	1					
43	2	129155-61830	O-RING, S10	3	3	3					
43-1	2	129155-61830	O-RING, S10	1	1	1					K
		(A=*1988.09)	(B=*1988.09)	(C=*1988.09)							
44	2	129100-61930	NUT, CAP	1	1	1					
45	2	129155-61950	BOLT	1	1	1					
46	2	22117-040000	WASHER, 4	2	2	2					
46-1	2	22117-040000	WASHER, 4	1	1	1					K
		(A=*1988.09)	(B=*1988.09)	(C=*1988.09)							
47	2	22190-100002	WASHER, SEAL 10	1	1	1					
48	2	22217-050000	WASHER, SPRING 5	4	4	4					Z
		(A=*1988.09)	(B=*1988.09)	(C=*1988.09)							
49	2	22272-000040	RING, E- 4	1	1	1					
50	2	22272-000060	RING, E- 6	2	2	2					
51	2	22282-120000	WASHER 12	1	1	1					

Remarks

- (1) Selective parts, mark; 0
- (2) Selective parts, mark; 1
- (3) Selective parts, mark; 05
- (4) Selective parts, mark; 3
- (5) Selective parts, mark; 4
- (6) Selective parts, mark; 8
- (7) Selective parts, mark; 9

Fig.36. GOVERNOR(UP TO JAN.,1992)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

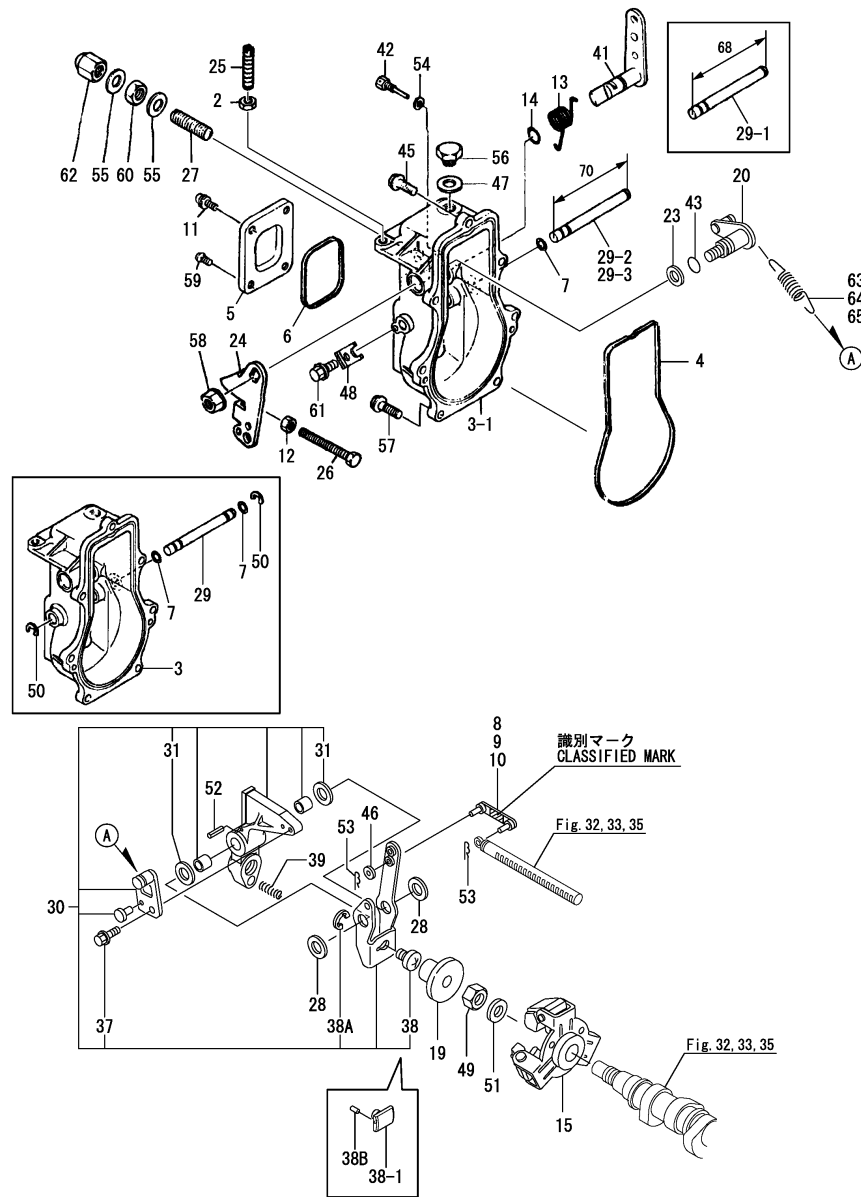
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
51-1	2	22287-120000	WASHER, 12	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
52	2	22351-030016	PIN, SPRING 3.0X16	1	1	1					
53	2	22372-040000	PIN, SNAP 4	2	2	2					
54	2	22190-060003	SEAL WASER 6	1	1	1					
55	2	22190-120002	WASHER, SEAL 12	2	2	2					
56	2	23887-100002	PLUG, 10	1	1	1					
57	2	26107-060202	BOLT M 6X 20 PLATED	6	6	6					
57-1	2	26106-060202	BOLT, M6X 20 PLATED	6	6	6					N
		(A=*1986.12) (B=*1986.12) (C=*1986.12)									
58	2	26366-080002	NUT, M8	1	1	1					
59	2	26577-050102	SCREW, M5X10	3	3	3					
59-1	2	26022-050102	SCREW, M5X10	4	4	4					N
		(A=*1988.09) (B=*1988.09) (C=*1988.09)									
60	2	26777-120002	NUT, LOCK M12	1	1	1					
61	2	26757-060002	NUT, LOCK M6	1	1	1					
61-1	2	26756-060002	NUT, LOCK M6	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
62	2	26777-120002	NUT, LOCK M12	1	1	1					
62-1	2	26776-120002	NUT, LOCK M12	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
63	2	129155-61820	SPRING, RETURN	1	1	1					
63-1	2	129100-61821	SPRING, RETURN	1	1	1					S
		(A=*1988.09) (B=*1988.09) (C=*1988.09)									
65	2	24311-000080	O-RING, 1AP8.0	1	1	1					
65-1	2	24311-240100	O-RING, 1AP10A	1	1	1					S
		(A=*1988.09) (B=*1988.09) (C=*1988.09)									

Remarks

- (1) Selective parts, mark; 0
- (2) Selective parts, mark; 1
- (3) Selective parts, mark; 05
- (4) Selective parts, mark; 3
- (5) Selective parts, mark; 4
- (6) Selective parts, mark; 8
- (7) Selective parts, mark; 9

Fig.37. GOVERNOR(FROM JAN.,1992)



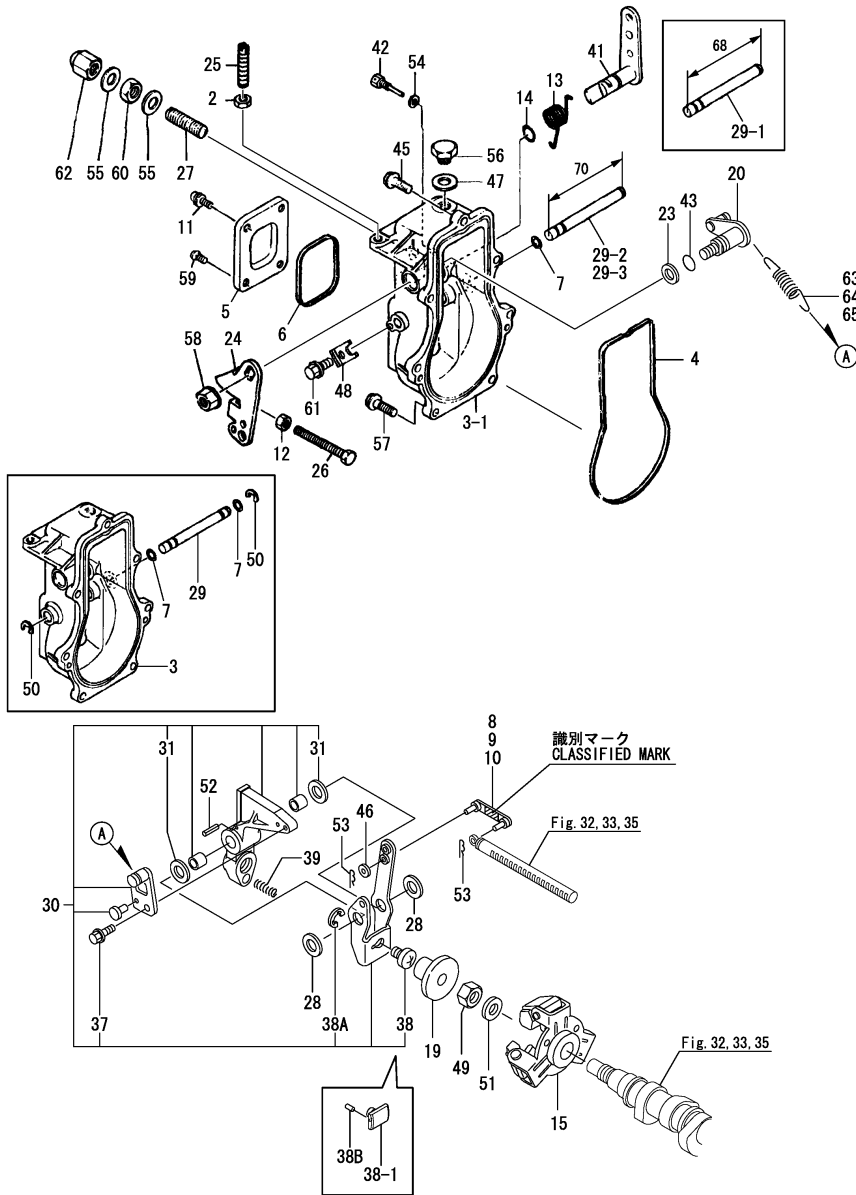
(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	3	124550-66370	NUT, M6	1	1	1					
3	3	129155-61012	CASE, GOVERNOR	1	1	1					
3-1	3	129155-61013	CASE, GOVERNOR	1	1	1					S
4	3	129155-61050	GASKET	1	1	1					
4-1	3	129155-61051	GASKET	1	1	1					N
5	3	129155-61060	COVER, GOVERNOR CASE	1	1	1					
6	3	129155-61070	GASKET	1	1	1					
6-1	3	129155-61071	GASKET	1	1	1					N
7	3	129155-51280	O-RING, S6	2	2	2					
7-1	3	129155-51280	O-RING, S6	1	1	1					K
8	3	129155-61120	LINK, L=30 MARK 0	1	1	1					1
9	3	129155-61130	LINK, L=31 MARK 1	1	1	1					2
10	3	129155-61140	LINK, L=30.5 MARK 05	1	1	1					3
11	3	26023-050102	SCREW, M5X10	2	2	2					
12	3	26756-060002	NUT, LOCK M6	1	1	1					
13	3	129100-61821	SPRING, RETURN	1	1	1					
14	3	24311-240100	O-RING, 1AP10A	1	1	1					
15	3	171488-61200	WEIGHT ASSY, GOVERNOR	1	1	1					
19	3	129155-61341	SLEEVE	1	1	1					
20	3	129100-61400	SHAFT ASSY	1	1	1					
23	3	129155-61430	SPACER	1	1	1					
24	3	129100-61440	LEVER, CONTROL	1	1	1					
25	3	129155-61450	BOLT, LIMITER	1	1	1					
26	3	129155-61460	BOLT, IDLE	1	1	1					
27	3	129155-61470	BOLT, CONTROL	1	1	1					
27-1	3	120323-61470	BOLT, CONTROL	1	1	1					N
28	3	129155-61480	SPACER ASSY	2	2	2					
29	3	129155-61490	SHAFT	1	1	1					
29-1	3	129155-61380	SHAFT	1	1	1					S
29-2	3	119660-61491	SHAFT	1	1	1					S
29-3	3	119660-61590	SHAFT	1	1	1					N
30	3	129100-61501	LEVER ASSY, GOVERNOR	1	1	1					
31	4	174307-51700	SHIM SET	2	2	2					
37	4	26106-060102	BOLT, M6X 10 PLATED	1	1	1					
38	4	129155-61540	SHIFTER	1	1	1					
38-1	4	129100-61540	SHIFTER	1	1	1					R
38A	4	22272-000040	RING, E- 4	1	1	1					
38B	4	22351-020004	PIN, SPRING 2.0X 4	1	1	1					W
39	3	129100-61650	SPRING, CONTROLLER	1	1	1					
41	3	129470-61801	LEVER, STOP	1	1	1					
42	3	129155-61810	PIN	1	1	1					

Remarks
(1) Selective parts, mark; 0
(2) Selective parts, mark; 1
(3) Selective parts, mark; 05

Fig.37. GOVERNOR(FROM JAN.,1992)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
43	3	129155-61830	O-RING, S10	1	1	1					
45	3	129155-61950	BOLT	1	1	1					
46	3	22117-040000	WASHER, 4	1	1	1					
47	3	22190-100002	WASHER, SEAL 10	1	1	1					
48	3	119660-61901	RETAINER, SHAFT	1	1	1					W
		(A=E00335) (B=*1996.08) (C=*1996.08)									
49	3	26776-120002	NUT, LOCK M12	1	1	1					
50	3	22272-000060	RING, E- 6	2	2	2					Z
		(A=E00335) (B=*1996.08) (C=*1996.08)									
51	3	22287-120000	WASHER, 12	1	1	1					
52	3	22351-030016	PIN, SPRING 3.0X16	1	1	1					
53	3	22372-040000	PIN, SNAP 4	2	2	2					
54	3	22190-060003	SEAL WASER 6	1	1	1					
55	3	22190-120002	WASHER, SEAL 12	2	2	2					
56	3	23887-100002	PLUG, 10	1	1	1					
57	3	26106-060202	BOLT, M6X 20 PLATED	6	6	6					
58	3	26366-080002	NUT, M8	1	1	1					
59	3	26022-050102	SCREW, M5X10	2	2	2					
60	3	26776-120002	NUT, LOCK M12	1	1	1					
60-1	3	26736-120002	NUT, M12	1	1	1					S
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
60-2	3	129209-61920	NUT, ARB	1	1	1					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
61	3	26106-060102	BOLT, M6X 10 PLATED	1	1	1					W
		(A=E00335) (B=*1996.08) (C=*1996.08)									
62	2	129100-61930	NUT, CAP	1	1	1					
63	2	129477-61700	SPRING, GOVERNOR	1							
64	2	129477-61710	SPRING, GOVERNOR		1						
65	2	129477-61720	SPRING, GOVERNOR			1					

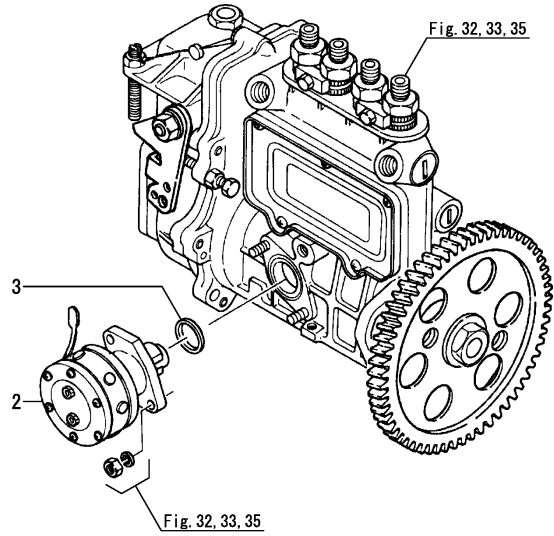
Remarks

- (1) Selective parts, mark; 0
- (2) Selective parts, mark; 1
- (3) Selective parts, mark; 05

Fig.38. FUEL FEED PUMP

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

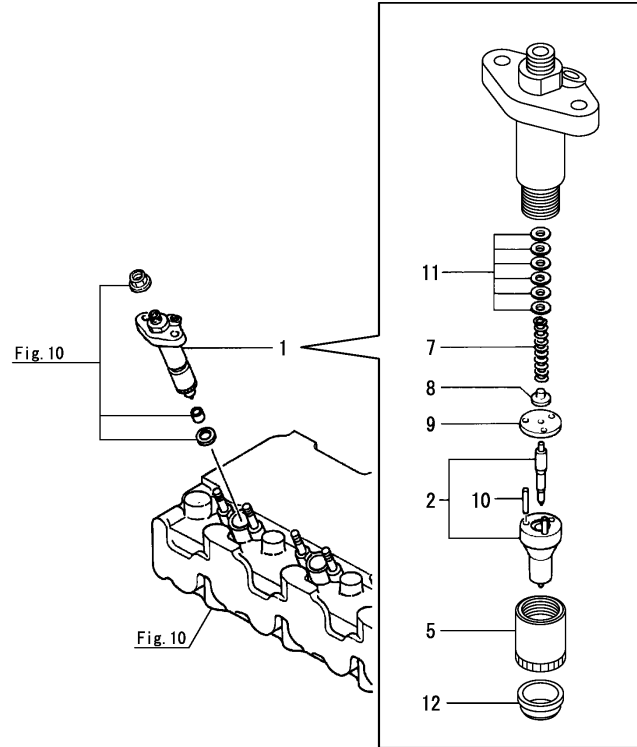


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	3	129491-52100	PUMP ASSY, FUEL FEED	1	1	1					
2-1	3	129491-52101	PUMP ASSY, FEED	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
3	3	129155-52050	GASKET	1	1	1					
3-1	3	129155-52051	GASKET	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									

Fig.39. FUEL INJECTION VALVE

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

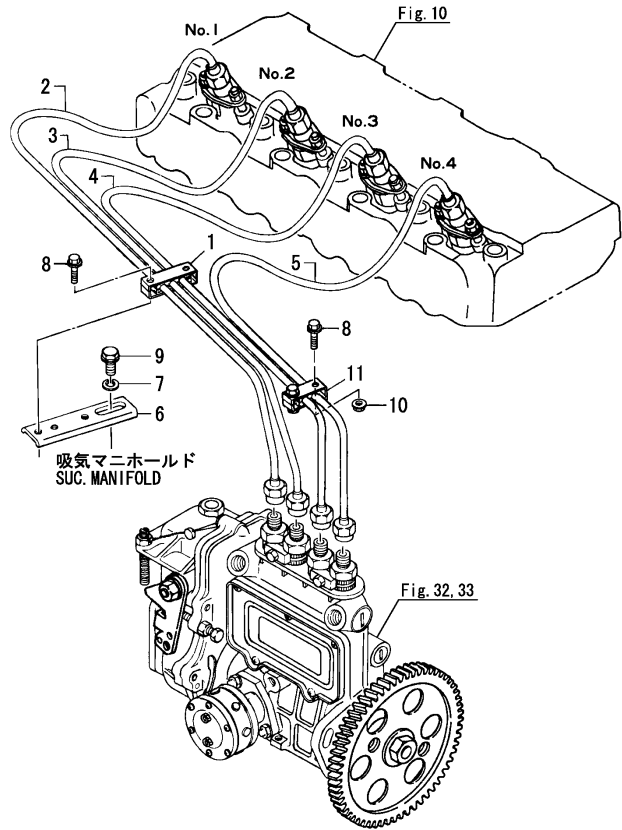


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729491-53100	VALVE ASSY,INJECTION	4							
1A	1	729493-53100	VALVE ASSY,INJECTION		4						
1B	1	729496-53100	VALVE ASSY,INJECTION			4					
2	2	119800-53000	VALVE ASSY,INJECTION	4							
2A	2	129500-53050	VALVE ASSY,INJECTION		4						
2B	2	129496-53000	VALVE ASSY,INJECTION				4				
5	2	114250-53080	NUT, NOZZLE D16.95	4	4	4					
7	2	114250-53120	SPRING, NOZZLE	4	4	4					
8	2	114250-53130	SEAT, SPRING	4	4	4					
9	2	114250-53140	PLATE	4	4	4					
10	2	114250-53210	PIN	8	8	8					
11	2	114250-53400	SHIM SET	4	4	4					
11-1	2	119803-53400	SHIM SET	4	4	4					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
12	2	129470-11920	GASKET	4	4	4					
12-1	2	129685-11930	GASKET, NOZZLE	4	4	4					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									

Fig.40. FUEL INJECTION PIPE(4JHL-N/TN)

(A)=4JHL-N
 (B)=4JHL-TN
 (C)=4JHL-HTN

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

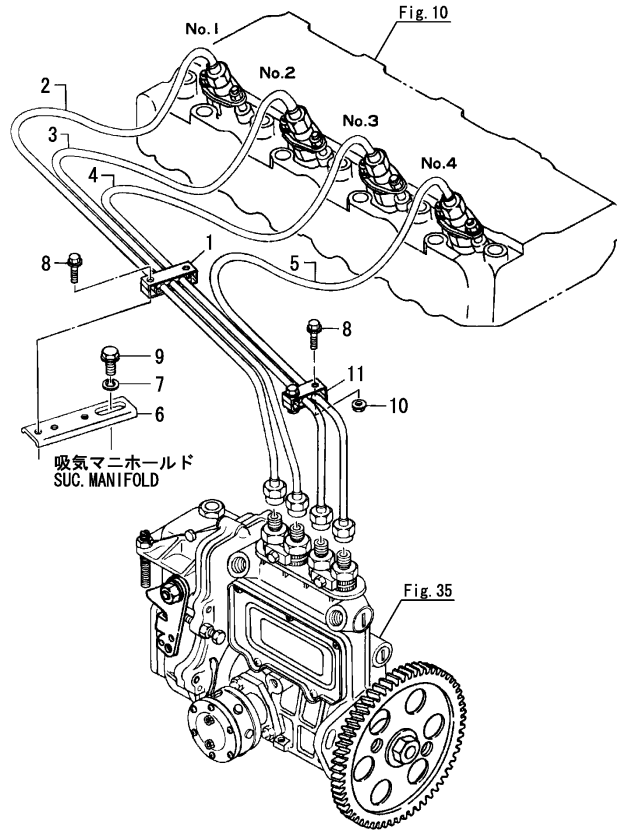


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123372-59100	RETAINER, PIPE	2	2						
2	1	129491-59810	PIPE ASSY, INJECTION	1	1						
3	1	129491-59820	PIPE ASSY, INJECTION	1	1						
4	1	129491-59830	PIPE ASSY, INJECTION	1	1						
5	1	129491-59840	PIPE ASSY, INJECTION	1	1						
6	1	121870-59930	STAY	1	1						
7	1	22217-080000	WASHER, SPRING 8	1	1						
8	1	26106-060202	BOLT, M6X 20 PLATED	4	4						
9	1	26106-080202	BOLT, M8X 20 PLATED	1	1						
10	1	26366-060002	NUT, M6	2	2						
11	1	122780-59100	RETAINER	2	2						

Fig.41. FUEL INJECTION PIPE(4JHL-HTN)

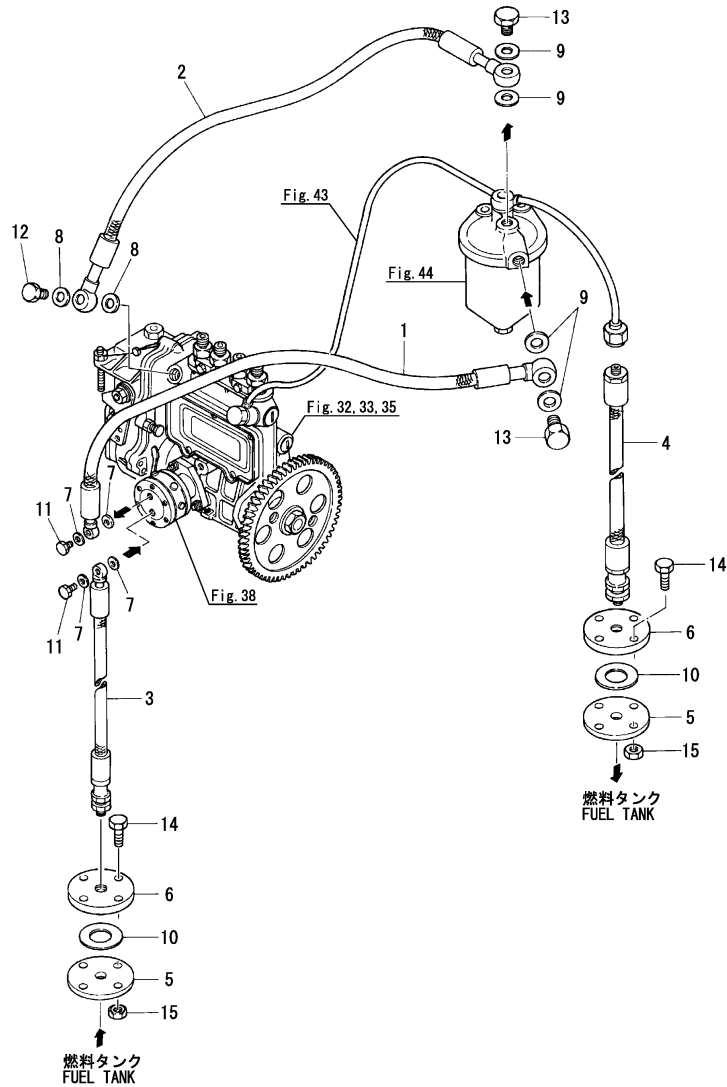
(A)=4JHL-N
 (B)=4JHL-TN
 (C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123372-59100	RETAINER, PIPE			2					
2	1	129496-59810	PIPE ASSY, INJECTION			1					
3	1	129496-59820	PIPE ASSY, INJECTION			1					
4	1	129496-59830	PIPE ASSY, INJECTION			1					
5	1	129496-59840	PIPE ASSY, INJECTION			1					
6	1	121870-59930	STAY			1					
7	1	22217-080000	WASHER, SPRING 8			1					
8	1	26106-060202	BOLT, M6X 20 PLATED			4					
9	1	26106-080202	BOLT, M8X 20 PLATED			1					
10	1	26366-060002	NUT, M6			2					
11	1	122780-59100	RETAINER			2					

Fig.42. FUEL PIPE



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-59120	PIPE, FUEL	1	1	1					
2	1	129491-59130	PIPE, FUEL	1	1	1					
3	1	129491-59140	PIPE, FUEL	1	1	1					
4	1	129491-59150	PIPE, FUEL	1	1	1					
5	1	23211-015010	FLANGE, 5K 15	2	2	2					1
5A	1	23211-015022	FLANGE, 5K 15	2	2	2					2
6	1	43310-550720	FLANGE, PT1/4	2	2	2					
7	1	23414-080000	GASKET, 8X1.0	4	4	4					
7-1	1	22190-080002	WASHER, SEAL 8	4	4	4					N
		(A=E00364) (B=E00479) (C=E00329)									
8	1	23414-120000	GASKET, 12X1.0	4	4	4					
8-1	1	22190-120002	WASHER, SEAL 12	4	4	4					N
		(A=E00364) (B=E00479) (C=E00329)									
9	1	23414-140000	GASKET, 14X1.0	4	4	4					
9-1	1	22190-140002	WASHER, SEAL 14	4	4	4					N
		(A=E00364) (B=E00479) (C=E00329)									
10	1	23433-015000	GASKET, 5K15X0.5	2	2	2					
11	1	23857-030000	BOLT, JOINT 3	2	2	2					
11-1	1	105582-59150	BOLT, PIPE JOINT	2	2	2					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
12	1	23857-060000	BOLT, JOINT 6	1	1	1					
13	1	23857-080000	BOLT, JOINT 8	2	2	2					
14	1	26206-100302	BOLT, M10X 30 PLATED	8	8	8					
15	1	26706-100002	NUT, M10	8	8	8					

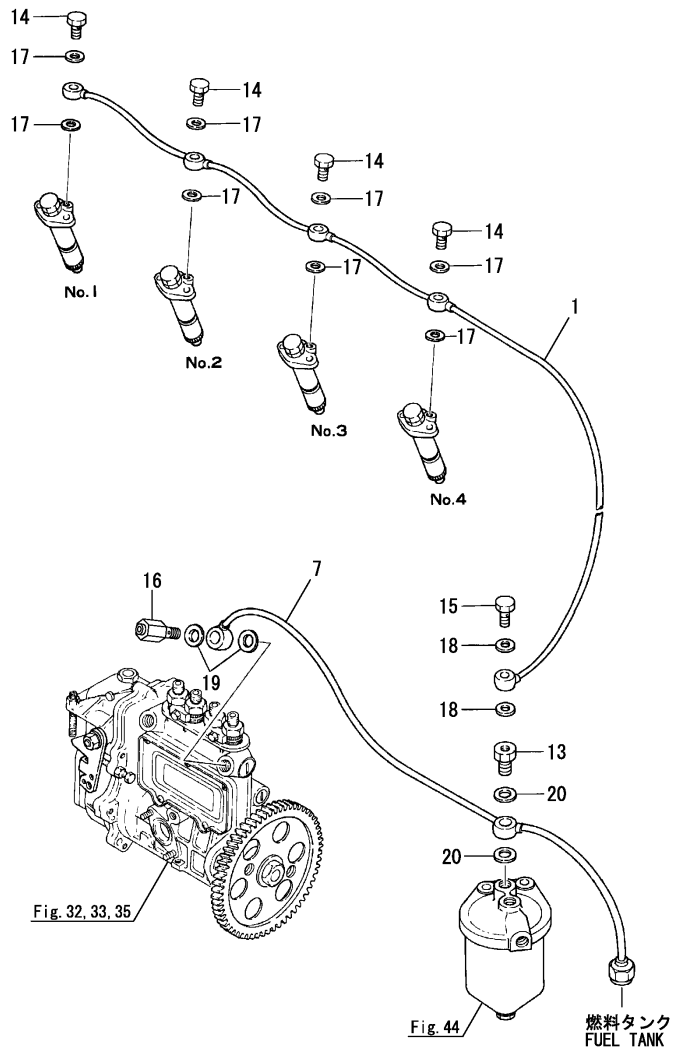
Remarks

- (1) Inside diameter: 10.2mm
- (2) Inside diameter: 22.2mm

Fig.43. FUEL RETURN PIPE

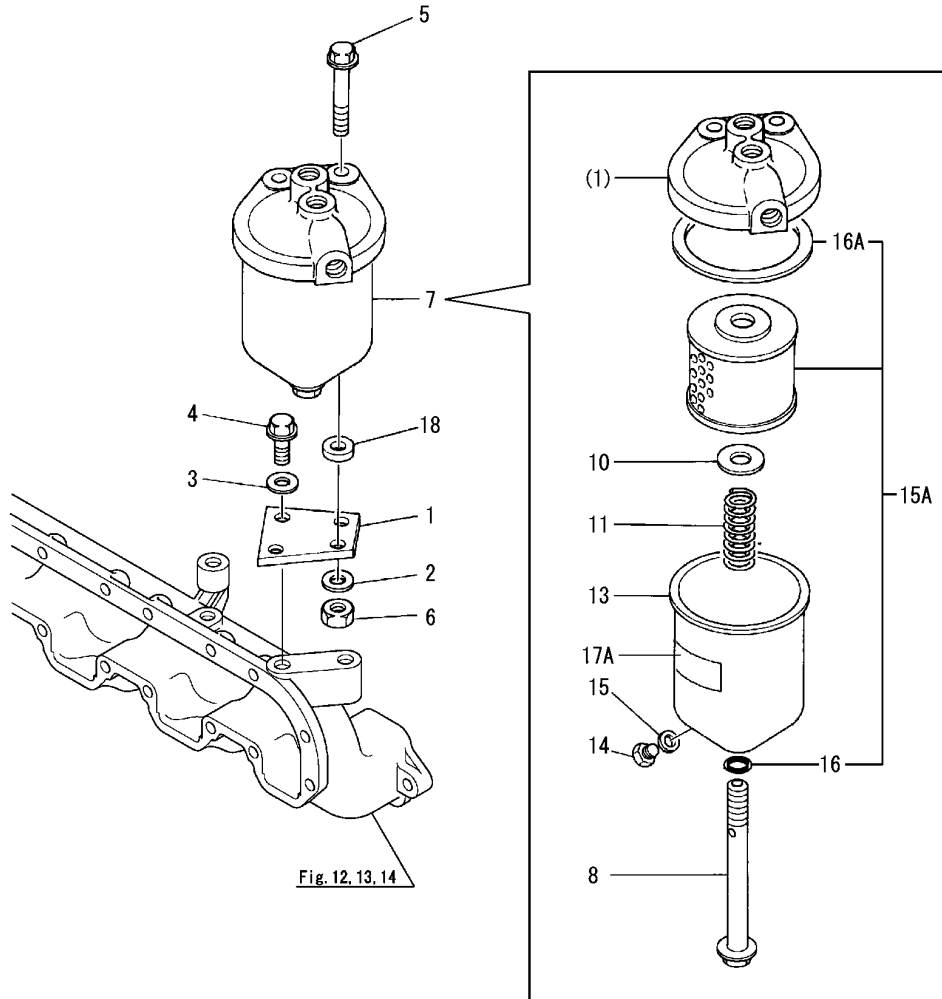
(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-59201	PIPE ASSY, RETURN	1	1	1					
7	1	129491-59301	PIPE ASSY, RETURN	1	1	1					
13	1	129495-59300	BOLT, PIPE JOINT	1	1	1					
14	1	129491-59540	BOLT, PIPE JOINT M6	4	4	4					
15	1	124550-59820	BOLT, PIPE JOINT M8	1	1	1					
16	1	129100-59951	VALVE ASSY, CHECK	1	1	1					
16-1	1	119813-59950	VALVE ASSY, CHECK	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
17	1	23414-060000	GASKET, 6X1.0	8	8	8					
17-1	1	22190-060002	WASHER, SEAL 6	8	8	8					N
		(A=E00364) (B=E00479) (C=E00329)									
18	1	23414-080000	GASKET, 8X1.0	2	2	2					
18-1	1	22190-080002	WASHER, SEAL 8	2	2	2					N
		(A=E00364) (B=E00479) (C=E00329)									
19	1	23414-120000	GASKET, 12X1.0	2	2	2					
19-1	1	22190-120002	WASHER, SEAL 12	2	2	2					N
		(A=E00364) (B=E00479) (C=E00329)									
20	1	23414-140000	GASKET, 14X1.0	2	2	2					
20-1	1	22190-140002	WASHER, SEAL 14	2	2	2					N
		(A=E00364) (B=E00479) (C=E00329)									

Fig.44. FUEL STRAINER



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

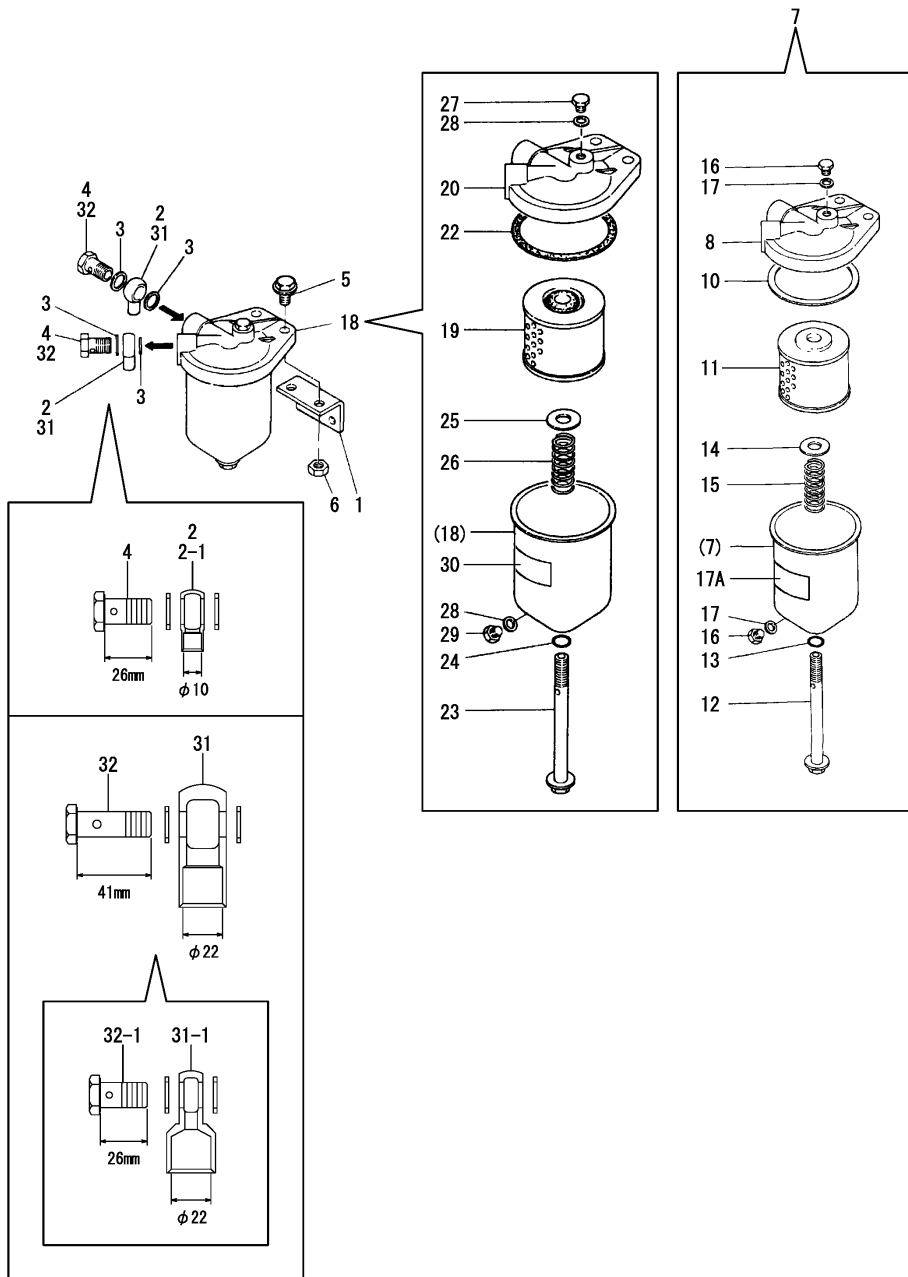
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129495-55010	BRACKET	1	1	1					
2	1	22137-100000	WASHER, 10	2	2	2					
3	1	22137-100000	WASHER, 10	2	2	2					
4	1	26106-100202	BOLT, M10X 20 PLATED	2	2	2					
5	1	26106-100552	BOLT, M10X 55 PLATED	2	2	2					
6	1	26706-100002	NUT, M10	2	2	2					
7	1	129495-55600	FILTER ASSY, FUEL	1	1	1					
8	2	129495-55620	BOLT	1	1	1					
9	2	123325-35140	GASKET	1	1	1					Z
		(A=2013.11.) (B=2013.11.) (C=2013.11.)									
10	2	123325-35160	WASHER	1	1	1					
11	2	123325-35170	SPRING	1	1	1					
13	2	123672-55720	CASE	1	1	1					
14	2	123672-55750	PLUG, DRAIN M8	1	1	1					
15	2	123672-55760	GASKET	1	1	1					
15A	2	41650-502320	ELEMENT ASSY(D72XL90	1	1	1					W
		(A=2013.11.) (B=2013.11.) (C=2013.11.)									
16	3	24311-000120	O-RING, 1AP12.0	1	1	1					
16A	3	123325-35140	GASKET	1	1	1					W
		(A=2013.11.) (B=2013.11.) (C=2013.11.)									
17A	2	41650-501180	LABEL, CAUTION	1	1	1					W
		(A=E00235) (B=E00245) (C=E00234)									
18	1	45511-501250	SPACER	2	2	2					

Fig.45. OIL/WATER SEPARATOR

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

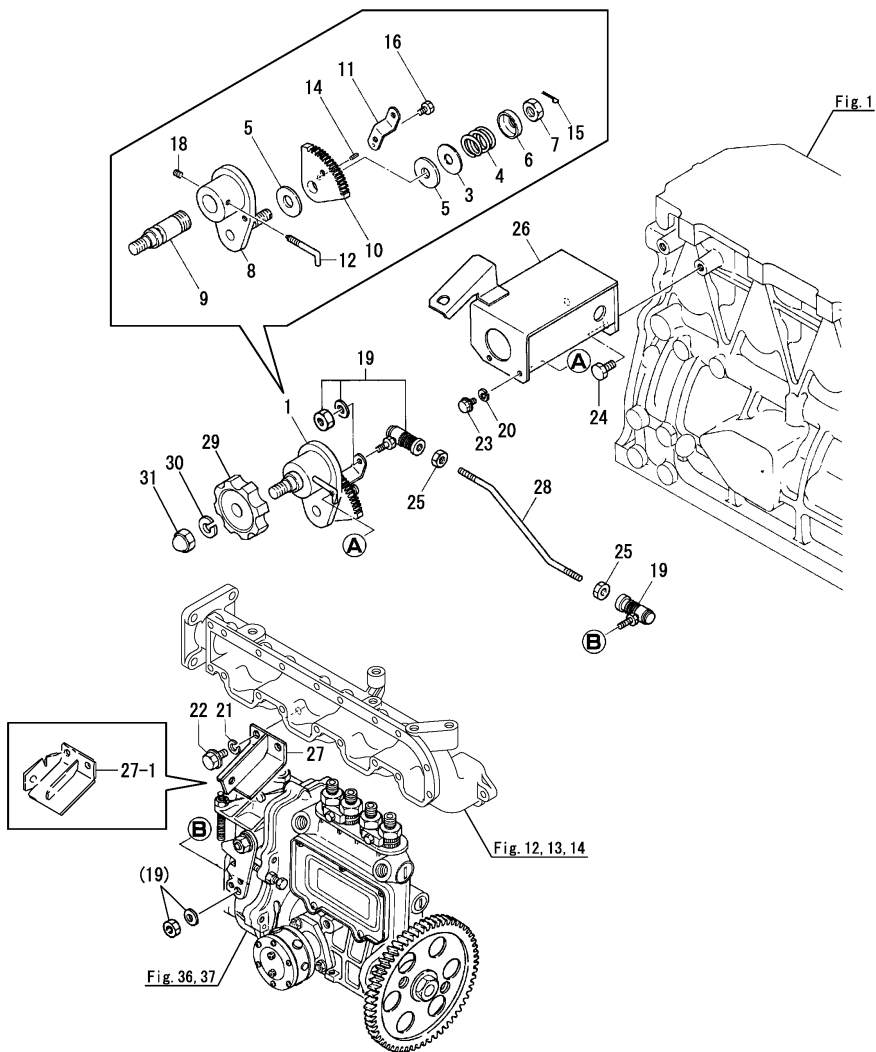


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123672-55811	BRACKET	1	1	1					
2	1	43510-000400	JOINT, PIPE	2	2	2					
2-1	1	110250-39030	JOINT	2	2	2					N
3	1	23414-140000	GASKET, 14X1.0	4	4	4					
4	1	23857-080000	BOLT, JOINT 8	2	2	2					
5	1	26106-100202	BOLT, M10X 20 PLATED	2	2	2					
6	1	26706-100002	NUT, M10	2	2	2					
7	1	43623-500030	SEPARATOR	1	1	1					Z
8	2	X2740134001	COVER ASSY	1	1	1					
10	2	123325-35140	GASKET	1	1	1					
11	2	42430-550060	ELEMENT, FUEL OIL	1	1	1					
12	2	123325-35110	BOLT	1	1	1					
13	2	24311-000120	O-RING, 1AP12.0	1	1	1					
14	2	123678-55860	SEAT, SPRING D30/16	1	1	1					
15	2	X0600160122	SPRING	1	1	1					
16	2	23887-080002	PLUG 8	2	2	2					
17	2	23414-080000	GASKET, 8X1.0	2	2	2					
17A	2	X0993070671	LABEL	1	1	1					
18	1	120324-55750	SEPARATOR ASSY	1	1	1					W
18-1	1	120324-55751	SEPARATOR ASSY	1	1	1					N
19	2	120324-55760	ELEMENT	1	1	1					
20	2	X2740134001	COVER ASSY	1	1	1					
20-1	2	X2740134002	COVER ASSY	1	1	1					N
22	2	X0582810173	GASKET	1	1	1					
23	2	X0311121522	BOLT	1	1	1					
24	2	X0580121073	O-RING, 1A P 12.0	1	1	1					
25	2	X0300120414	SEAT, SPRING	1	1	1					
26	2	X0600160122	SPRING	1	1	1					
27	2	X0314080110	PLUG	1	1	1					
28	2	X0588080273	WASHER	2	2	2					
29	2	X0313080110	BOLT	1	1	1					
29-1	2	X0313080922	BOLT	1	1	1					N
30	2	X0993070671	LABEL	1	1	1					
30-1	2	X0993071171	LABEL, CAUTION	1	1	1					N
31	1	43510-550500	JOINT BOLT	2	2	2					
31-1	1	126640-59410	JOINT, BALL 14	2	2	2					S
32	1	43510-550510	BOLT, PIPE JOINT	2	2	2					
32-1	1	23857-080000	BOLT, JOINT 8	2	2	2					S

Fig.46. REGULATOR

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171085-67010	CONTROLLER ASSY	1	1	1					
3	2	171102-66080	WASHER	1	1	1					
4	2	104200-66820	SPRING	1	1	1					
5	2	104200-66830	PLATE, FRICTION	2	2	2					
5-1	2	104200-66831	PLATE, FRICTION	2	2	2					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
6	2	104200-66850	WASHER	1	1	1					
7	2	104200-66860	NUT	1	1	1					
8	2	171085-67100	BRACKET	1	1	1					
9	2	171085-67110	SHAFT, DRIVE	1	1	1					
10	2	171085-67120	GEAR	1	1	1					
11	2	171085-67130	LEVER	1	1	1					
12	2	171085-67140	STOPPER	1	1	1					
14	2	22351-020006	PIN, SPRING 2.0X 6	1	1	1					
15	2	22411-200150	COTTER PIN	1	1	1					
16	2	26116-060082	BOLT, M6X 8 PLATED	1	1	1					
18	2	26979-050052	SCREW, M5X 5	1	1	1					
18-1	2	26921-050122	SCREW, M5X12	1	1	1					N
		(A=*1986.10) (B=*1986.10) (C=*1986.10)									
19	1	128610-67500	JOINT	2	2	2					
20	1	22217-060000	WASHER, SPRING 6	2	2	2					
21	1	22217-080000	WASHER, SPRING 8	2	2	2					
22	1	26106-080122	BOLT, M8X 12 PLATED	2	2	2					
23	1	26107-060102	BOLT M 6X 10 PLATED	2	2	2					
24	1	26116-080142	BOLT 8X14	2	2	2					
25	1	26716-050002	NUT, M5	2	2	2					
26	1	41660-501780	BRACKET	1	1	1					
26-1	1	41660-501781	BRACKET	1	1	1					N
		(A=E00224) (B=E00218) (C=E00221)									
26-2	1	41660-501891	BRACKET	1	1	1					N
		(A=E00225) (B=E00223) (C=E00238)									
27	1	41660-501800	BRACKET, GOVERNOR	1	1	1					
27-1	1	41660-501801	BRACKET, GOVERNOR	1	1	1					S 1
		(A=*1988.06) (B=*1988.06) (C=*1988.06)									
28	1	41660-501810	ROD	1	1	1					
29	1	126650-66020	HANDLE, REGULATOR	1	1	1					
30	1	22217-100000	WASHER, SPRING 10	1	1	1					
31	1	26657-100002	NUT, CAP M10	1	1	1					

Remarks

(1)Interchangeable by simultaneous replacement with Fig.4 No.12-1.

Fig.47. ENGINE STOP DEVICE

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-67310	RETAINER	1	1	1					
1-1	1	129590-67310	RETAINER	1	1	1					R
		(A=*1987.08)	(B=*1987.08)	(C=*1987.08)							
2	1	22414-250150	PIN, COTTER 2.5X15	1	1	1					
3	1	26116-050142	BOLT, M5X 14 PLATED	1	1	1					
4	1	26756-050002	NUT, LOCK M5	1	1	1					
5	1	129495-66550	CABLE, STOP L=500	1	1	1					

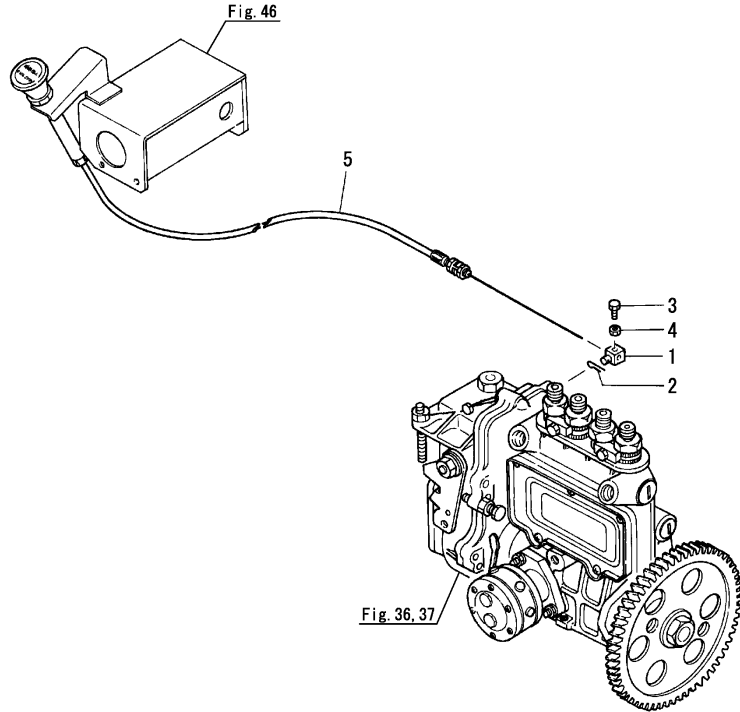
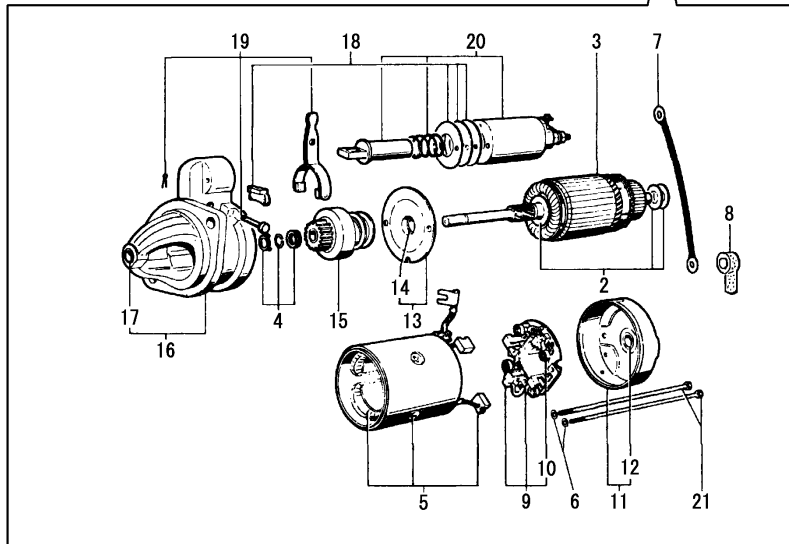
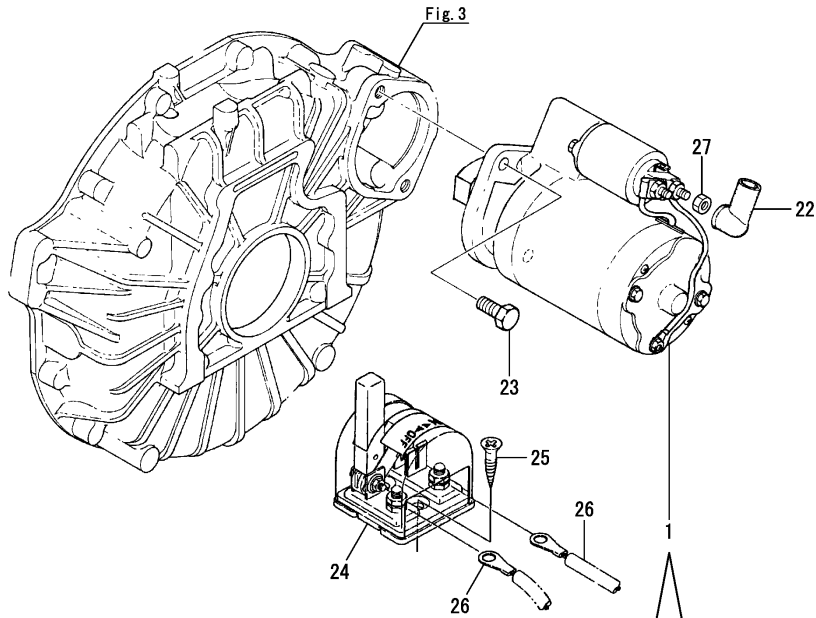


Fig.48. STARTING MOTOR



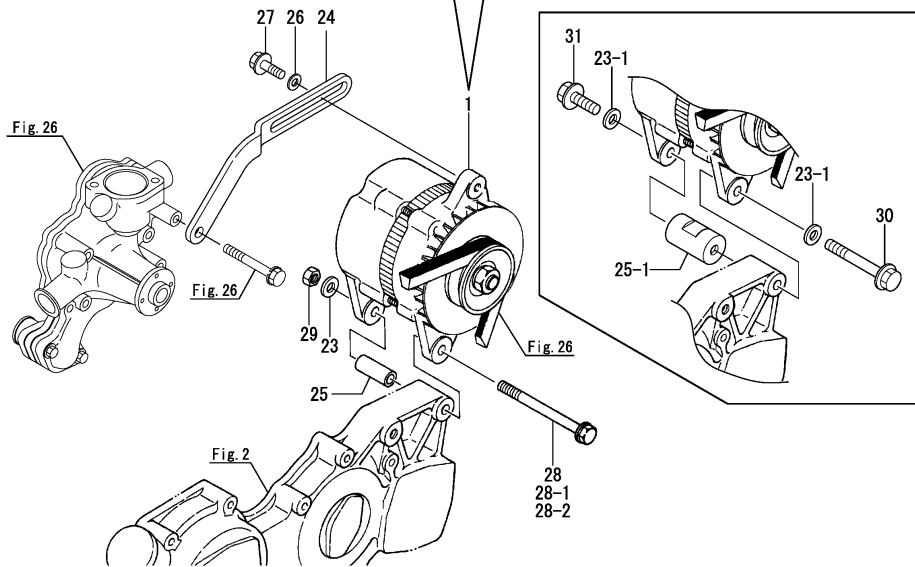
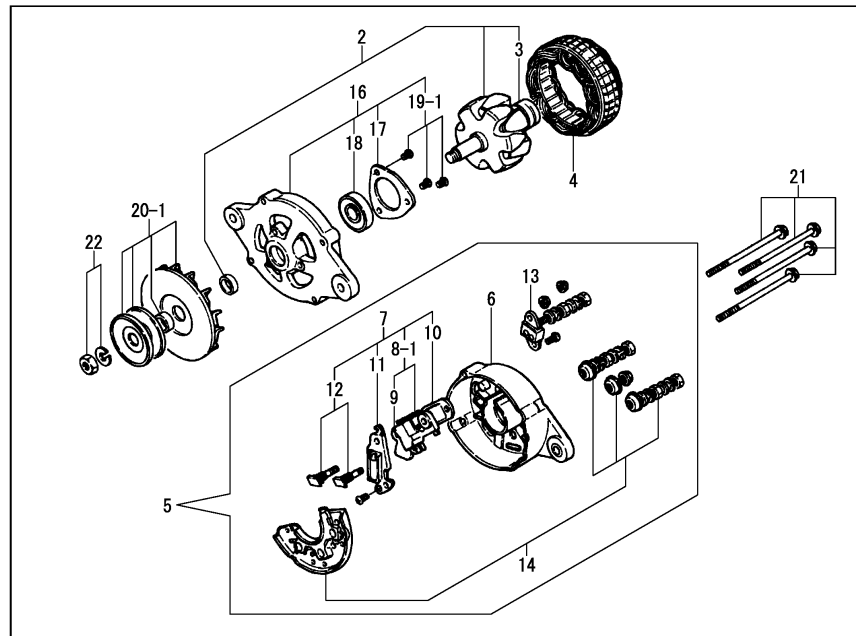
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129491-77010	STARTER 24V-3.5KW	1	1	1					
2	2	X21201115	WASHER SET, THRUST	1	1	1					
3	2	X225031001	ARMATURE ASSY	1	1	1					
4	2	X22506105	STOPPER SET, PINION	1	1	1					
5	2	X225052001	COIL ASSY, FIELD	1	1	1					
6	2	X21301827	WASHER	2	2	2					
7	2	X21205820	CONECTING WIRE	1	1	1					
8	2	X22508815	COVER SET, TERMINAL	1	1	1					
9	2	X22508310	HOLDER ASSY.,BRUSH	1	1	1					
10	3	X21304313	SPRING, BRUSH	4	4	4					
11	2	X225013014	COVER ASSY., REAR	1	1	1					
12	3	X21301310	METAL, COVER BEARING	1	1	1					
13	2	X21303400	BEARING ASSY	1	1	1					
14	3	X21204401	METAL, CENTER BERG.	1	1	1					
15	2	X225075004	PINION ASSY	1	1	1					
16	2	X225096005	CASE ASSY., GEAR	1	1	1					
17	3	X21301310	METAL, COVER BEARING	1	1	1					
18	2	X21302610	COVER SET, DUST	1	1	1					
19	2	X21302605	LEVER SET	1	1	1					
20	2	X225087005	SWITCH ASSY.,MAGNET	1	1	1					
21	2	X22503820	BOLT, THROUGH	2	2	2					
22	1	124550-77030	COVER, TERMINAL	1	1	1					
23	1	26116-120302	BOLT, M12X 30 PLATED	2	2	2					
24	1	123310-77640	SWITCH, BATTERY	1	1	1					
25	1	22724-800380	SCREW, 8.0X38	2	2	2					
26	1	29110-060008	TERMINAL, 60.0-8	2	2	2					
27	1	26756-080002	NUT, LOCK M8	1	1	1					W

(A)=FROM 1ST) (B)=FROM 1ST) (C)=FROM 1ST)

Fig.49. GENERATOR(HITACHI: TO JUN. 2012)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124611-77200	GENERATOR	1	1	1					
1-1	1	124611-77201	GENERATOR	1	1	1					R 1
		(A=*2006.04) (B=E00146) (C=E00156)									
1-2	1	124611-77202	GENERATOR	1	1	1					N 1
		(A=E00165) (B=E00157) (C=E00189)									
1-3	1	124611-77202	GENERATOR	1	1	1					Z 1
		(A=E00256) (B=E00256) (C=E00256)									
2	2	XL2255100	ROTOR ASSY	1	1	1					
3	3	X6201SD	BALL BEARING	1	1	1					
4	2	XL22542001	STATER ASSY	1	1	1					
5	2	XL22543003	COVER ASSY, REAR	1	1	1					
6	3	XL22553012	COVER, REAR	1	1	1					
7	3	XL2254315	REGULATOR ASSY,BRUSH	1	1	1					
8-1	4	XL235G3330	BRUSH ASSY	1	1	1					
9	5	XL12013262	BRUSH	2	2	2					
10	4	XTR2Z46	IC REGULATOR ASSY	1	1	1					
11	4	XL2251318	CONDENCER ASSY	1	1	1					
12	4	XL13513134	BOLT M5	2	2	2					
13	3	XL2256310	TERMINAL BOLT ASSY	1	1	1					
14	3	XL2253320	DIODE ASSY	1	1	1					
16	2	XL2253400	FRONT COVER ASSY	1	1	1					
17	3	XL15014042	BEARING RETAINER	1	1	1					
18	3	X6203BM	BALL BEARING	1	1	1					
19-1	3	XL15028001	SCREW ASSY	1	1	1					
20-1	2	XL225G6500	PULLEY ASSY	1	1	1					
21	2	XL15018015	BOLT, THROUGH	4	4	4					
22	2	XL1501810	NUT ASSY, PULLEY	1	1	1					
23	1	22137-100000	WASHER, 10	1	1	1					
23-1	1	22137-100000	WASHER, 10	2	2	2					K
		(A=*1991.01) (B=*1991.01) (C=*1991.01)									
24	1	129470-77330	ADJUSTER, BELT	1	1	1					
25	1	129470-77340	PIECE, DISTANCE	1	1	1					
25-1	1	129670-77340	PIECE, DISTANCE	1	1	1					S
		(A=E00108) (B=E00101) (C=E00105)									
26	1	22137-080000	WASHER, 8	1	1	1					
27	1	26106-080252	BOLT, M8X 25 PLATED	1	1	1					
28	1	26106-101152	BOLT, M10X115 PLATED	1	1	1					
28-1	1	26116-101202	BOLT, M10X120 PLATED	1	1	1					S
		(A=*1991.01) (B=*1991.01) (C=*1991.01)									
28-2	1	26116-101202	BOLT, M10X120 PLATED	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
29	1	26716-100002	NUT, M10	1	1	1					Z
		(A=E00108) (B=E00101) (C=E00105)									
30	1	129695-77370	BOLT, M10X75	1	1	1					W
		(A=E00108) (B=E00101) (C=E00105)									
30-1	1	129695-77371	BOLT, M10X70	1	1	1					N
		(A=*2006.01) (B=*2006.01) (C=*2006.01)									
31	1	129695-77380	BOLT, M10X30	1	1	1					W
		(A=E00108) (B=E00101) (C=E00105)									

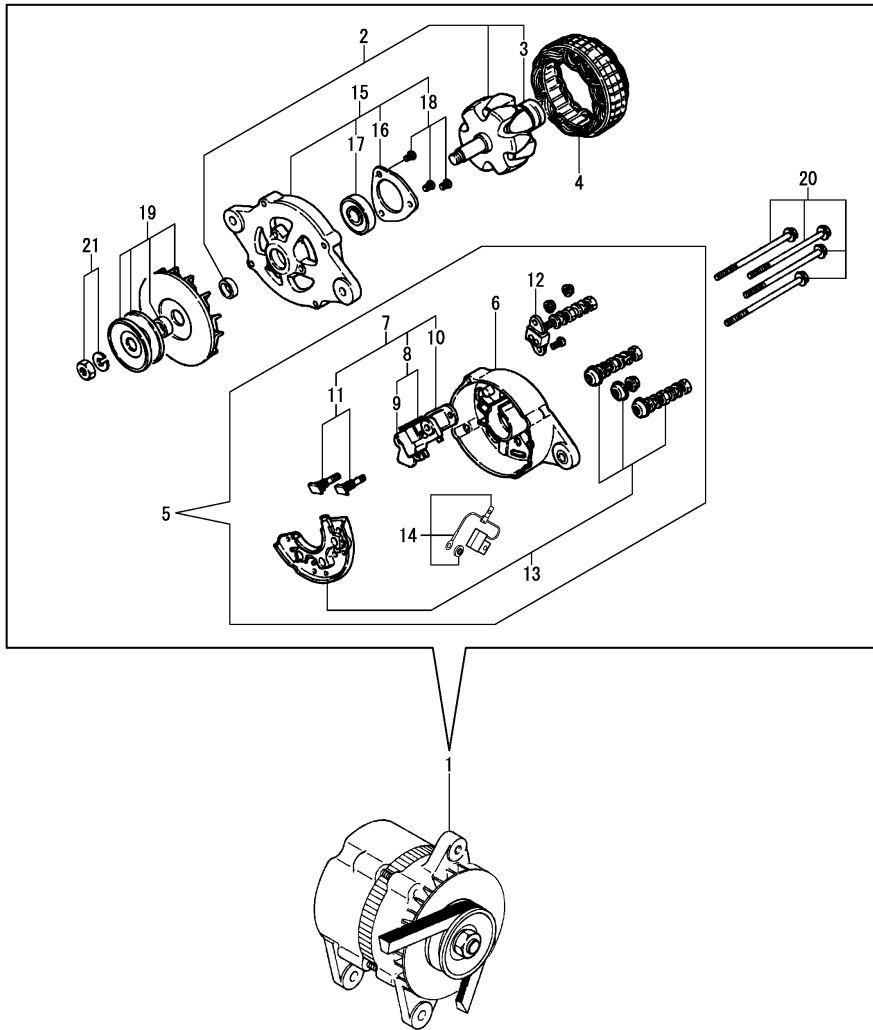
Remarks

* This item is applicable to [(A)(B)(C)=E00256] or previous machines(Refer to Fig.58)

(1) Inner parts are shown in Fig.57.

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

Fig.57. (49A)GENERATOR COMPONENT PARTS(HITACHI: TO JUN. 2012)



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124611-77201	GENERATOR	1	1	1					
1-1	1	124611-77202	GENERATOR	1	1	1					N
		(A=E00165)	(B=E00157)	(C=E00189)							
1-2	1	124611-77202	GENERATOR	1	1	1					Z
		(A=E00256)	(B=E00256)	(C=E00256)							
2	2	XL2255100	ROTOR ASSY	1	1	1					
3	3	X6201SD	BALL BEARING	1	1	1					
4	2	XL225G5200	STATER ASSY	1	1	1					
5	2	XL225G23001	COVER ASSY, REAR	1	1	1					
5-1	2	XL225G43001	COVER ASSY, REAR	1	1	1					N
		(A=E00165)	(B=E00157)	(C=E00189)							
6	3	XL22553012	COVER, REAR	1	1	1					
7	3	XL225G4315	REGULATOR ASSY,BRUSH	1	1	1					
8	4	XL235G3330	BRUSH ASSY	1	1	1					
9	5	XL12013262	BRUSH	2	2	2					
10	4	XTR2Z46	IC REGULATOR ASSY	1	1	1					
11	4	XL13513134	BOLT M5	2	2	2					
12	3	XL2256310	TERMINAL BOLT ASSY	1	1	1					
13	3	XL2253320	DIODE ASSY	1	1	1					
14	3	XL135G2318	CONDENSER	1	1	1					
14-1	3	XL225G1318	CONDENCER ASSY	1	1	1					N
		(A=E00165)	(B=E00157)	(C=E00189)							
15	2	XL2253400	FRONT COVER ASSY	1	1	1					
16	3	XL15014042	BEARING RETAINER	1	1	1					
17	3	X6203BM	BALL BEARING	1	1	1					
18	3	XL15028001	SCREW ASSY	1	1	1					
19	2	XL225G6500	PULLEY ASSY	1	1	1					
20	2	XL15018015	BOLT, THROUGH	4	4	4					
21	2	XL1501810	NUT ASSY, PULLEY	1	1	1					

Remarks

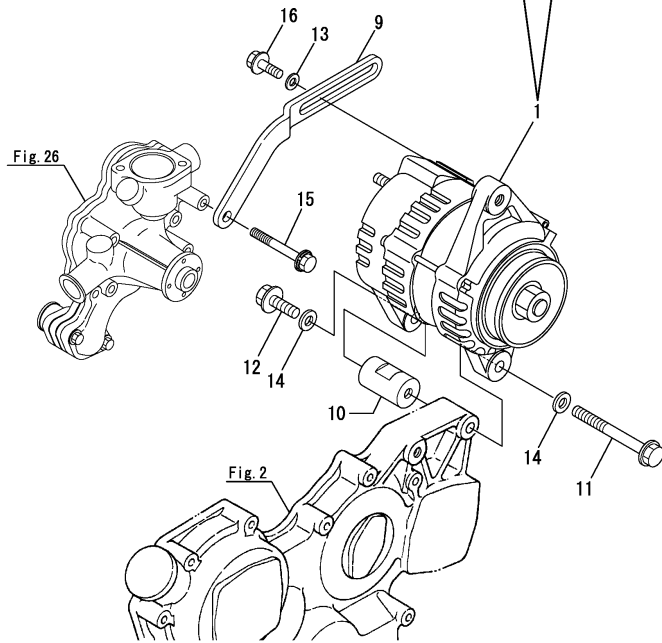
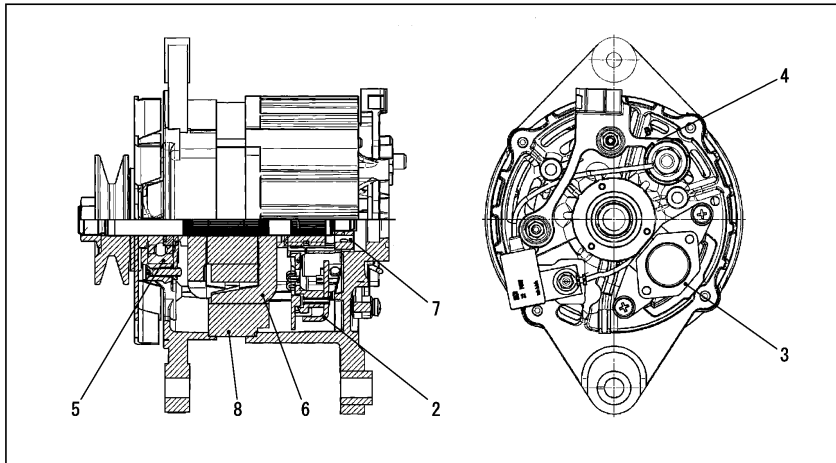
* This item is applicable to [(A)(B)(C)=E00256] or previous machines(Refer to Fig.58)

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

Fig.58. (49B)GENERATOR(BOSCH: FROM JUL. 2012)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119195-77200 (A=E00257) (B=E00257) (C=E00257)	ALTERNATOR, 24V-45A	1	1	1					W
2	2	119195-77700	RECTIFIER	1	1	1					
3	2	119195-77710	REGULATOR	1	1	1					
4	2	119195-77720	PROTECTOR	1	1	1					
5	2	129908-77780	BEARING, BALL FR	1	1	1					
6	2	129908-77790	ROTOR	1	1	1					
7	2	129908-77800	BEARING, BALL RR	1	1	1					
8	2	129908-77830	STATOR	1	1	1					
9	1	129470-77330	ADJUSTER, BELT	1	1	1					
10	1	129670-77340	PIECE, DISTANCE	1	1	1					
11	1	129695-77371	BOLT, M10X70	1	1	1					
12	1	129695-77380	BOLT, M10X30	1	1	1					
13	1	22137-080000	WASHER, 8	1	1	1					
14	1	22137-100000	WASHER, 10	2	2	2					
15	1	26014-080652	BOLT, M8X 65	1	1	1					
16	1	26106-080252	BOLT, M8X 25 PLATED	1	1	1					

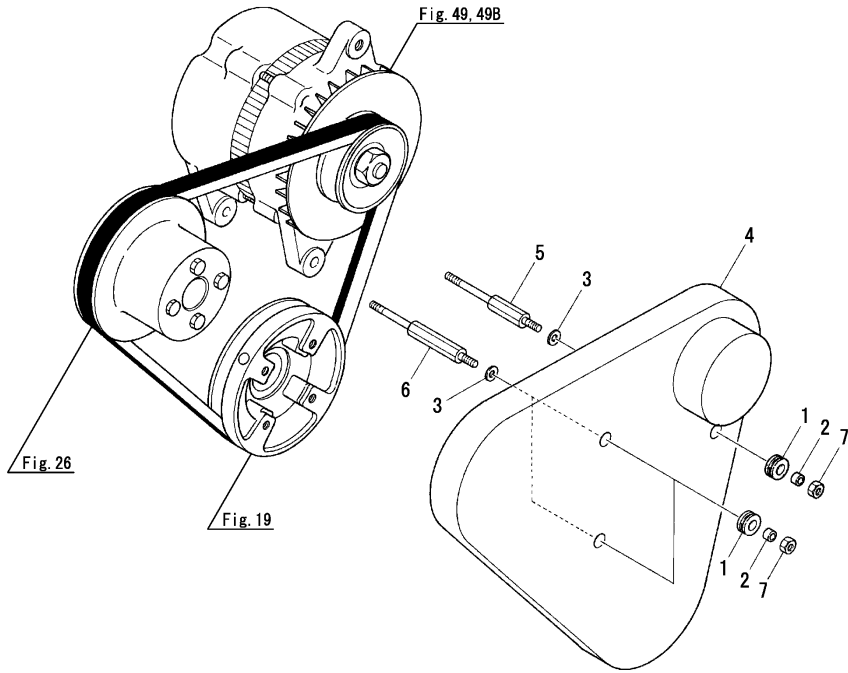
Remarks

* This item is applicable to [(A)(B)(C)=E00257] or following machines(Refer to Fig.49, 57)

Fig.50. V-BELT COVER

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

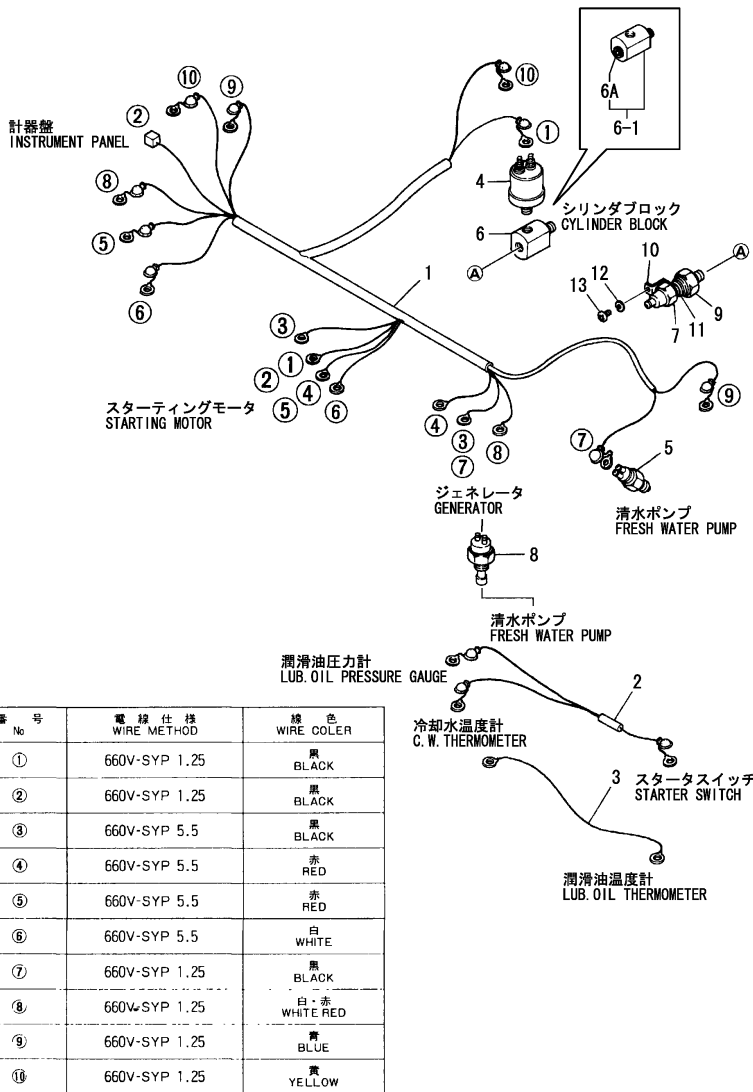


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105100-55500	ABSORBER	3	3	3					
1-1	1	105100-55501	ABSORBER	3	3	3					R
		(A=E00302) (B=E00391) (C=*1994.10)									
2	1	105100-55540	COLLAR	3	3	3					
3	1	106100-55800	WASHER	6	6	6					
4	1	129491-77400	COVER, V-BELT	1	1	1					
5	1	129491-77410	BOLT	1	1	1					
6	1	129491-77420	BOLT	2	2	2					
7	1	26716-080002	NUT, M8	3	3	3					

Fig.51. WIRE HARNESS & SENSOR

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



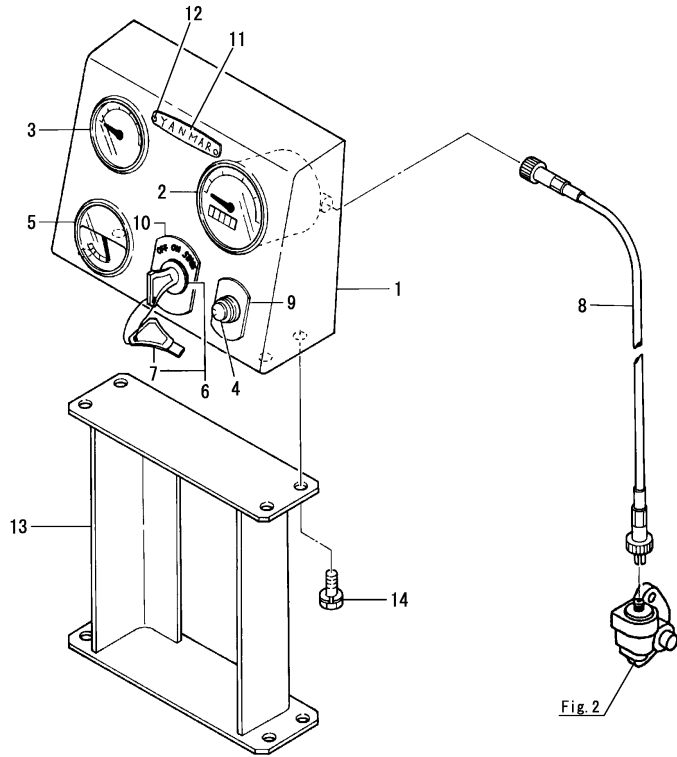
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	46150-505420	HARNESS, WIRE	1	1	1					
1-1	1	46150-505421	HARNESS, WIRE ENGINE	1	1	1					S 1
		(A=E00257) (B=E00257) (C=E00257)									
2	1	46150-505430	HARNESS, WIRE	1	1	1					
3	1	46150-505550	HARNESS, WIRE	1	1	1					
4	1	126630-91560	SENDER UNIT	1	1	1					
4-1	1	119773-91520	SENDER UNIT	1	1	1					R
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
5	1	126630-91570	SENDER UNIT	1	1	1					
6	1	43580-500680	DAMPER ASSY, PT1/8	1	1	1					
6-1	1	129670-39600	DAMPER ASSY, R1/8	1	1	1					N
		(A=E00108) (B=E00101) (C=E00105)									
6A	2	23875-010000	PLUG, R01	1	1	1					W
		(A=E00108) (B=E00101) (C=E00105)									
7	1	124060-39451	SWITCH, 0.2KG	1	1	1					
7-1	1	124060-39452	SWITCH, 0.2KG	1	1	1					N
		(A=E00363) (B=E00479) (C=E00326)									
7-2	1	121252-39450	SWITCH, 0.5KG	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
8	1	126630-91350	SWITCH, THERMO	1	1	1					
9	1	171022-39460	JOINT	1	1	1					
9-1	1	183366-39460	JOINT	1	1	1					R
		(A=*1986.02) (B=*1986.02) (C=*1986.02)									
10	1	171022-39470	TERMINAL, EARTH	1	1	1					
11	1	171022-39480	SPRING	1	1	1					
12	1	22217-040000	WASHER, SPRING 4	1	1	1					
13	1	26557-040082	SCREW, M4X 8	1	1	1					

Remarks

(1)Support for DENSO generator.

N:Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \end{matrix}$ New, S:Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.52. INSTRUMENT PANEL



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	42150-503200	PANEL, INSTRUMENT	1	1	1					
1-1	1	42150-503340	PANEL, INSTRUMENT	1	1	1					S 1
		(A=*1986.09) (B=*1986.09) (C=*1986.09)									
2	1	171079-91100	TACHOMETER	1	1	1					
3	1	123682-91230	GAUGE	1	1	1					
3-1	1	170074-91210	GAUGE	1	1	1					R
		(A=*1987.08) (B=*1987.08) (C=*1987.08)									
3-2	1	46150-512100	GAUGE	1	1	1					S
		(A=E00363) (B=E00479) (C=E00326)									
4	1	46150-500470	PILOT LAMP	1	1	1					
5	1	46150-501470	GAUGE, C.W. TEMP.	1	1	1					
5-1	1	46150-512350	THERMOMETER	1	1	1					R
		(A=E00297) (B=*1994.05) (C=E00252)									
6	1	46150-001150	SWITCH	1	1	1					
7	2	127610-91290	KEY, SWITCH	1	1	1					
8	1	121700-91140	CABLE, TACHOMETER	1	1	1					
8-1	1	121400-91140	SHAFT	1	1	1					S 1
		(A=*1986.09) (B=*1986.09) (C=*1986.09)									
9	1	126650-91530	LABEL	1	1	1					
10	1	42222-003380	LABEL	1	1	1					
11	1	42222-003370	LABEL	1	1	1					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
12	1	22624-200040	RIVET, 2.0X 4	2	2	2					W
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
13	1	42150-503210	BRACKET, PANEL	1	1	1					
13-1	1	42150-503370	BRACKET	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
14	1	26106-080142	BOLT, M8X 14 PLATED	4	4	4					

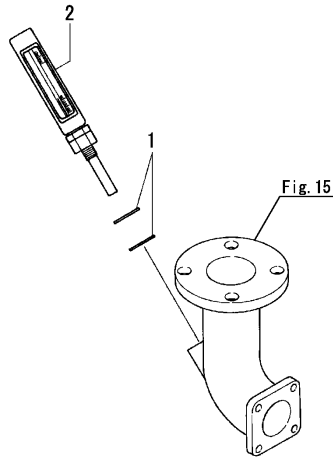
Remarks

(1)Interchangeable by simultaneous replacement with No.1-1 and 8-1.

Fig.53. EXHAUST THERMOMETER

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	23414-170000	GASKET, 17X1.0	2	2	2						
2	1	28573-620050	THERMOMETER	1	1	1						
2-1	1	28573-620055	THERMOMETER, 620	1	1	1						N
(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)												

4JHL-N

4JHL-TN
4JHL-HTN

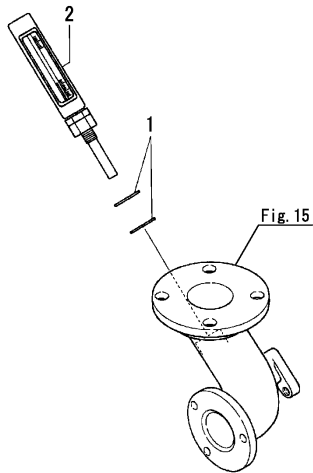
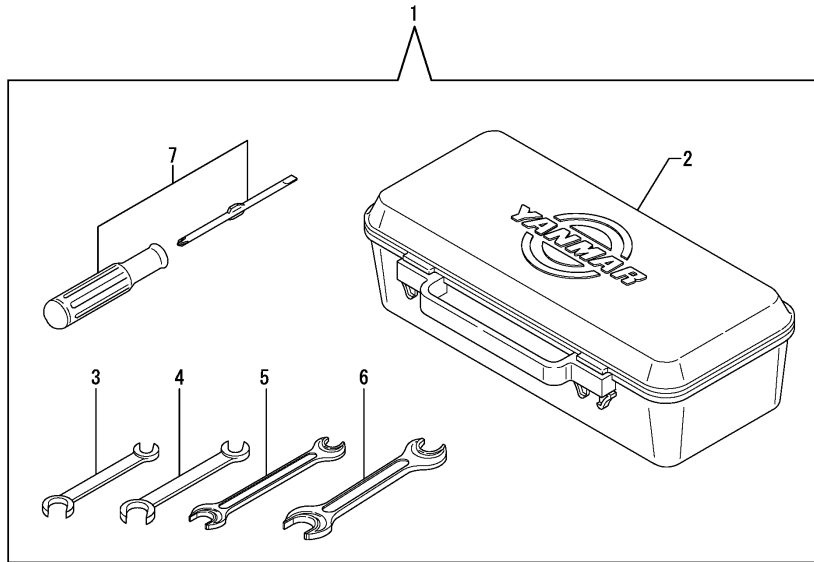


Fig.54. TOOL

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724772-92100	BOX ASSY, TOOL	1	1	1					
1-1	1	719195-92500	TOOL ASSY	1	1	1					N
		(A=E00225) (B=E00226) (C=E00234)									
2	2	104200-92600	BOX, TOOL	1	1	1					
3	2	28110-100130	SPANNER, 10X13	1	1	1					
4	2	28110-120140	SPANNER, 12X14	1	1	1					
5	2	28110-170190	SPANNER, 17X19	1	1	1					
6	2	28110-220240	SPANNER, 22X24	1	1	1					
6-1	2	28110-080100	SPANNER, 8X10	1	1	1					S
		(A=E00225) (B=E00226) (C=E00234)									
7	2	104200-92350	DRIVER, SCREW	1	1	1					

Fig.59. (54A)SAFETY LABEL(PACKAGED PARTS)

(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	120324-07190	LABEL SET	1	1	1					
2	2	120324-07200	LABEL, CAUTION	1	1	1					
3	2	120324-07210	LABEL, CAUTION	1	1	1					
4	2	128296-07400	LABEL, DANGER	2	2	2					
5	2	128296-07420	LABEL, DANGER	1	1	1					

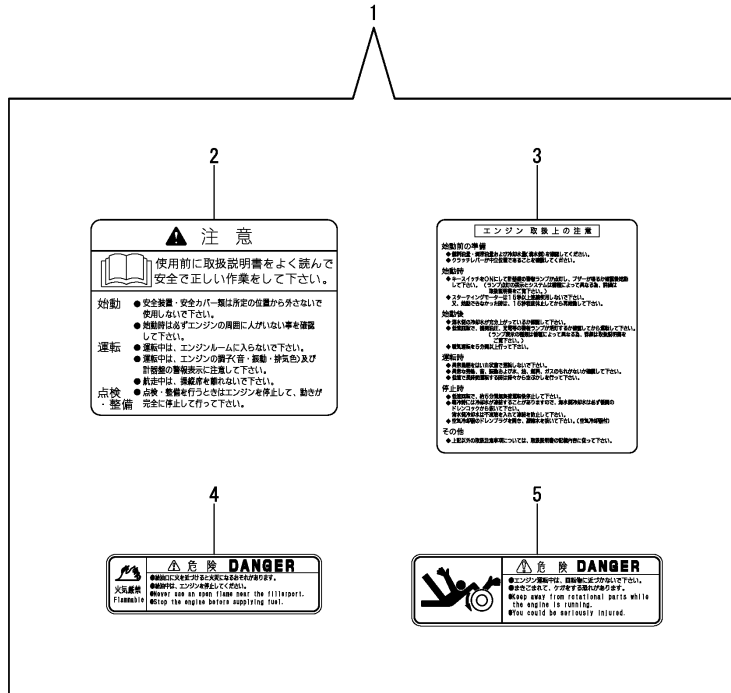
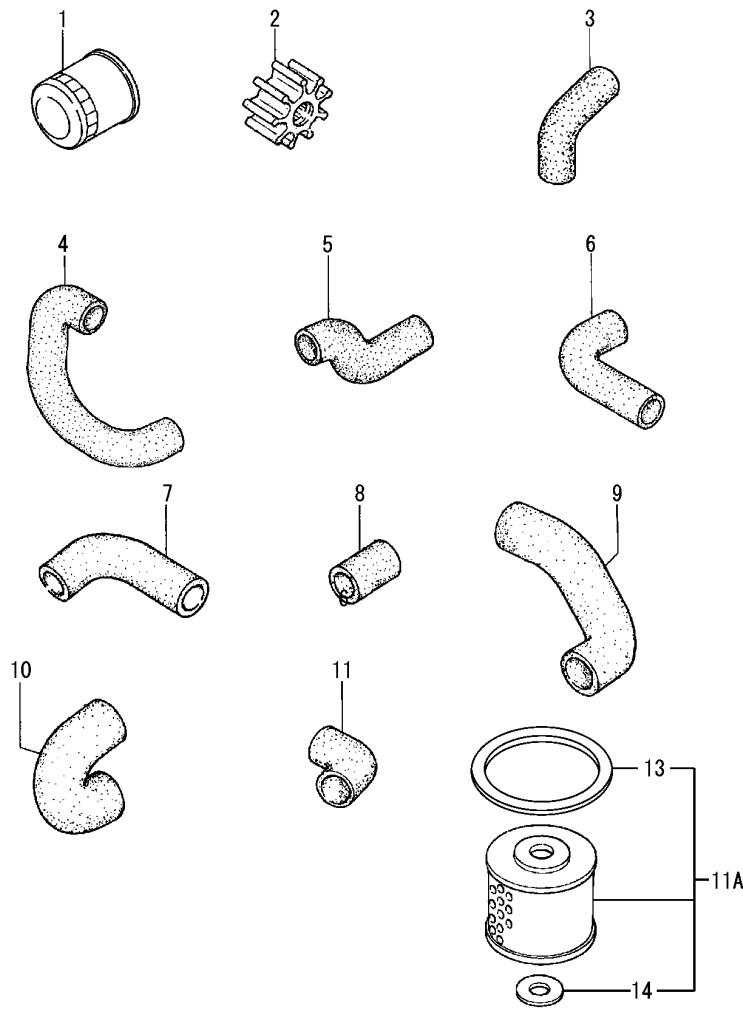


Fig.55. SPARE PARTS

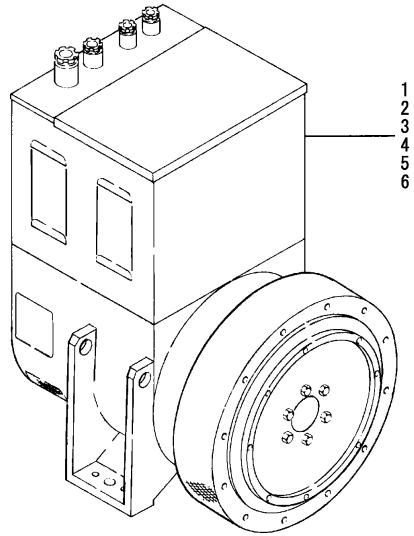
(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-35150	FILTER 90X80L	1	1	1					
1-1	1	129150-35152	FILTER, D80XL80	1	1	1					R
		(A=E00108) (B=E00502) (C=E00350)									
1-2	1	129150-35153	FILTER	1	1	1					R
		(A=E00149) (B=E00162) (C=E00154)									
2	1	129470-42530	IMPELLER	1	1	1					
2-1	1	129470-42531	IMPELLER	1	1	1					N
		(A=EXXXXX) (B=EXXXXX) (C=EXXXXX)									
2-2	1	129470-42532	IMPELLER	1	1	1					N
		(A=E00149) (B=E00147) (C=E00148)									
3	1	129496-49010	PIPE, WATER				1				
4	1	129491-49020	PIPE, WATER	1							
5	1	129496-49020	PIPE, WATER				1				
6	1	129491-49030	PIPE, WATER	1	1	1					
7	1	129496-49030	PIPE, WATER				1	1			
8	1	129493-49110	JOINT, RUBBER				1				
9	1	129491-49200	JOINT, RUBBER	1	1	1					
10	1	129491-49240	JOINT, RUBBER	1	1	1					
11	1	129491-49260	PIPE, WATER	1	1	1					
11A	1	41650-502320	ELEMENT ASSY(D72XL90)	1	1	1					W
		(A=2013.11.) (B=2013.11.) (C=2013.11.)									
13	2	123325-35140	GASKET	1	1	1					W
		(A=2013.11.) (B=2013.11.) (C=2013.11.)									
14	2	24311-000120	O-RING, 1AP12.0	1	1	1					W
		(A=2013.11.) (B=2013.11.) (C=2013.11.)									

Fig.56. GENERATOR



(A)=4JHL-N
(B)=4JHL-TN
(C)=4JHL-HTN

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

No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	46130-500430	GENERATOR, 15KVA	1							1	
2	1	46130-500440	GENERATOR, 20KVA		1						1	
3	1	46130-500450	GENERATOR, 25KVA			1					1	
4	1	46130-500870	GENERATOR, 15KVA	1							2	
5	1	46130-500890	GENERATOR, 20KVA		1						2	
6	1	46130-500910	GENERATOR, 25KVA			1					2	

Remarks

- (1)Tokyo Electric Industry generator(jg)(Optional)
- (2)Taiyo Electric generator(jg)

Parts No. Index

Parts No.	Fig. No.	Ref. No.
102210-07990	6	14
103338-11190	10	17
104200-66820	46	4
104200-66830	46	5
104200-66831	46	5 -1
104200-66850	46	6
104200-66860	46	7
104200-92350	54	7
104200-92600	54	2
104214-39720	4	15
104511-11370	10	19
104800-39370	17	32
105010-39140	24	31
105100-55500	50	1
105100-55501	50	1 -1
105100-55540	50	2
105425-01690	4	1 A
105582-59150	42	11 -1
106100-55800	50	3
106500-44810	3	7
		7 -1
110250-39030	45	2 -1
114250-53080	39	5
114250-53120	39	7
114250-53130	39	8
114250-53140	39	9
114250-53210	39	10
114250-53400	39	11
119174-25060	18	12 -1
119195-77200	58	1
119195-77700	58	2
119195-77710	58	3
119195-77720	58	4
119309-01810	1	11 G-1
119609-32040	22	26 -1
119609-32130	22	24 -1
119609-32320	22	20 -1
119609-35300	22	18 -1
119609-35330	22	21 -1
119620-49290	17	16 -1
	27	4 -1
119625-11870	10	28
119625-11880	10	29
119660-61491	37	29 -2
119660-61590	37	29 -3
119660-61901	37	48
119717-51420	32	62 -2
	33	62 -2
	35	62 -1
119717-51860	32	38 -1

Parts No.	Fig. No.	Ref. No.
119717-51860	33	38 -1
	35	38 -1
119773-91520	51	4 -1
119800-53000	39	2
119802-01561	2	6 -1
		18 -2
119802-11280	10	41 -1
119803-53400	39	11 -1
119813-59950	43	16 -1
119865-35300	22	18
119865-35320	22	20
119865-35330	22	21
119865-35350	22	24
120130-11860	10	26
120130-39990	22	39 -1
120130-49350	17	16
	27	4
120322-33050	23	11
	27	25 A
120323-61470	37	27 -1
120324-07190	59	1
120324-07200	59	2
120324-07210	59	3
120324-55750	45	18
120324-55751	45	18 -1
120324-55760	45	19
120445-44540	27	35
120445-44560	27	36
120445-44600	27	11
120445-44620	6	8
	27	14
120445-44640	27	15
121100-22400	21	8
121111-21501	19	31 -1
121252-39150	24	3
121252-39450	51	7 -2
121400-11340	10	18 A
121400-91140	52	8 -1
121450-01560	2	6
		18 -1
121550-23200	21	12 -1
121700-91140	52	8
121750-03080	11	8
121850-01910	11	4
		16
121850-11860	10	9
		9 -2
121850-21680	19	17
121850-35200	22	6
121850-35520	22	8

Parts No.	Fig. No.	Ref. No.
121850-35531	22	9
121850-51960	2	25
121870-59930	40	6
	41	6
122117-51560	32	43
	33	43
	35	43
122710-51090	32	8
	33	8
	35	8
122780-59100	40	11
	41	11
123310-77640	48	24
123325-35110	45	12
123325-35140	44	9
		16 A
	45	10
	55	13
123325-35160	44	10
123325-35170	44	11
123325-49421	23	13
123325-49490	17	23
123372-03150	30	1
123372-59100	40	1
	41	1
123482-01900	12	18
	13	22
	14	15
123672-55720	44	13
123672-55750	44	14
123672-55760	44	15
123672-55811	45	1
123678-55860	45	14
123682-07350	6	4
123682-07850	6	7
123682-07851	6	7 -1
123682-07852	6	7 -2
123682-44210	27	12
123682-44220	27	13
123682-91230	52	3
124060-39451	51	7
124060-39452	51	7 -1
124085-11690	26	5
124160-01751	2	7
	11	12
124160-01910	1	11 E
		14 -1
124160-11360	11	14
124160-39140	24	2
124160-49480	27	5

Parts No.	Fig. No.	Ref. No.
124223-35510	22	7
124240-01871	2	10 -1
124413-39100	22	40
124460-11340	10	18
		18 -1
124460-77680	1	43
	17	17
	27	31
	28	5 -1
	29	7 -1
124550-01590	2	14 -1
124550-21600	19	21
		25
		29
124550-51350	32	29
	33	29
	35	29
124550-51370	32	30
	33	30
	35	30
124550-59820	24	22
		47
	43	15
124550-59830	24	46
124550-66370	36	2
	37	2
124550-77030	48	22
124611-77200	49	1
124611-77201	49	1 -1
	57	1
124611-77202	49	1 -2
		1 -3
	57	1 -1
		1 -2
124722-59050	28	5
	29	7
124770-12540	12	12
	13	12
	14	9
124950-51190	32	15
	33	15
	35	15
124976-34850	1	11 G-2
125320-08600	8	1
126480-08610	8	2
126480-08620	8	3
126480-08660	8	8
126630-07360	6	6
126630-07370	6	5
126630-91350	51	8

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Parts No.	Fig. No.	Ref. No.
126630-91560	51	4
126630-91570	51	5
126640-59410	45	31 -1
126650-66020	46	29
126650-91530	52	9
127610-03150	27	43
127610-91290	52	7
127611-07350	6	3
128170-13600	16	34
	27	42 -1
128170-51300	32	24
128296-07250	6	11
128296-07260	6	12
128296-07300	6	10
128296-07360	6	13
128296-07400	59	4
128296-07420	59	5
128371-01800	1	15
128610-67500	46	19
128695-44090	28	1
	29	1
	31	7
129001-01250	1	9 -1
129052-35000	22	16
129052-42050	26	3 -2
129052-42310	26	4 -2
129054-42320	26	2 -1
129100-01520	2	3 -1
129100-01580	19	7
		14
		30 -1
		30 -2
129100-01620	3	2
129100-11100	10	13
129100-11130	10	14
129100-11650	10	37 -1
129100-23910	21	17
129100-35140	22	5
129100-51300	33	24
	35	24
129100-51560	32	44 -1
	33	44 -1
	35	44 -1
129100-51570	32	43 -1
	33	43 -1
	35	43 -1
129100-59951	43	16
129100-61400	36	20
	37	20
129100-61440	36	24

Parts No.	Fig. No.	Ref. No.
129100-61440	37	24
129100-61500	36	30
129100-61501	37	30
129100-61540	37	38 -1
129100-61650	36	39
	37	39
129100-61821	36	63 -1
	37	13
129100-61930	36	44
	37	62
	37	24
129107-44590	27	24
129150-01200	1	33
129150-01510	2	2
129150-01520	2	3
129150-01530	2	4
129150-01870	2	10
129150-01880	2	11
	25	22
		22 A
129150-01881	2	11 -2
		11 -3
	25	22 -2
129150-02020	1	11 A-1
129150-02450	1	45
129150-02870	1	34
129150-02931	1	29 -1
129150-02940	1	37
129150-02941	1	37 -1
129150-03070	11	7
129150-03080	11	8 -1
129150-11050	10	4
129150-11230	10	39
129150-11280	10	36
129150-11370	10	19 -1
129150-11750	10	40
129150-11810	10	27
129150-14100	18	2
129150-14101	18	2 -1
129150-14200	18	3
129150-14400	18	4
129150-21200	19	4
		11
129150-22300	21	7
129150-23600	21	13 -1
129150-23601	21	13 -2
129150-23610	21	15
129150-23611	21	15 -1
129150-25020	18	11
129150-25051	18	6
129150-25052	18	6 -1

Parts No.	Fig. No.	Ref. No.
129150-25101	18	7
129150-25900	18	13
129150-32020	22	29
129150-35040	22	31
129150-35041	22	31 -2
129150-35042	22	31 -3
129150-35101	22	17
129150-35110	22	41
129150-35111	22	41 -1
129150-35150	22	12
		15
	55	1
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