

OCF50-M00090EN

Introduction

1.This parts catalog is a first edition of the 4JH80,4JH110 Diesel engine.

	Date of issue	Remarks
First edition	July, 2014	

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

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

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

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

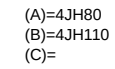
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Fig.1. CYLINDER BLOCK



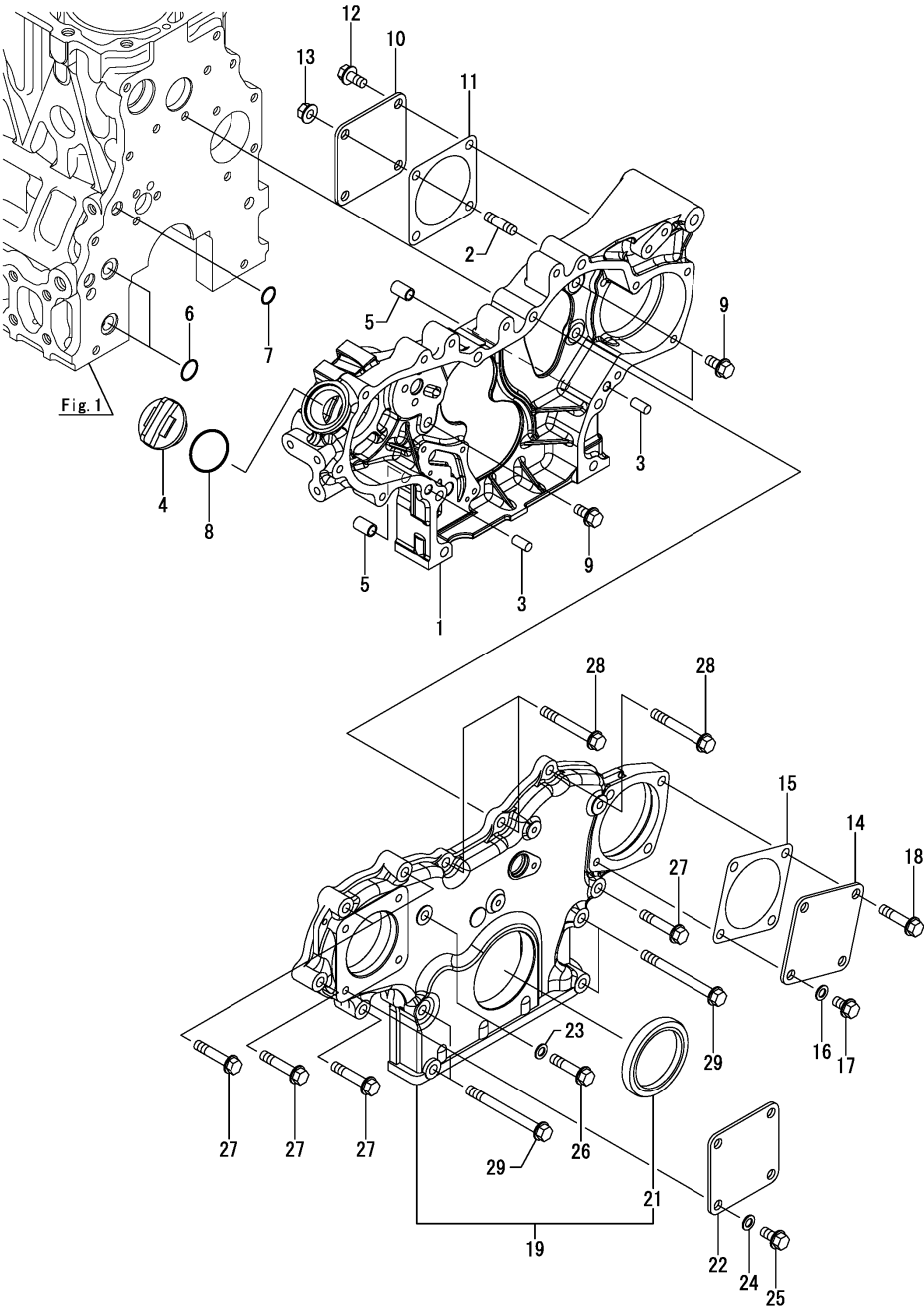
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-01560	BLOCK ASSY, CYLINDER	1	1						
5	3	129001-01250	PLUG, 50	1	1						
6	3	171051-01921	PLUG, NPTF1	1	1						
7	3	129150-02020	BOLT, METAL CAP	10	10						
10	3	129795-02412	BUSH, CAMSHAFT	1	1						
11	3	27241-300000	PLUG 30	8	8						
12	2	124060-01050	PLUG, PT1/8	1	1						
13	2	124160-01910	PLUG, PT1/4	2	2						
14	2	124160-01910	PLUG, PT1/4	1	1						
15	2	23875-030000	PLUG, R03	1	1						
16	2	27241-120000	PLUG, 12	1	1						
26	2	129150-02931	BEARING, THRUST	2	2						
29	1	129150-01200	BOLT, HEAD	18	18						
30	1	129693-01341	GASKET, HEAD	1	1						
31	1	129001-02931	BEARING, MAIN	5	5						1
34	1	129150-02871	BEARING, 0.25 US	5	5						2
37	1	129150-02941	BEARING, THRUST 0.25	1	1						3
40	1	124976-34850	CAP	1	1						

(1) Spare parts.
(2) Under-sized (U.S.=0.25) parts.
(3) Over-sized (O.S.=0.25) parts.

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



OCF50-M00090 Fig.2

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-01500	CASE, GEAR	1	1						
2	1	121450-01560	STUD, M8X22	1	1						
3	1	129100-01580	PIN, 8X16	2	2						
4	1	124160-01751	COVER, FILLER	1	1						
5	1	129795-01950	PIPE, KNOCK L=18	2	2						
6	1	119609-32040	O-RING, P16	2	2						
7	1	119624-32040	O-RING, P12.0	1	1						
8	1	24311-000320	O-RING, 1AP32.0	1	1						
9	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
10	1	124240-01871	COVER	1	1						
11	1	129C26-01890	GASKET, HO-P	1	1						
12	1	26106-080162	BOLT, M8X 16 PLATED	3	3						
13	1	26306-080002	NUT, M8	1	1						
14	1	124240-01871	COVER	1	1						
15	1	129C26-01890	GASKET, HO-P	1	1						
16	1	22190-080002	WASHER, SEAL 8	1	1						
17	1	26106-080142	BOLT, M8X 14 PLATED	1	1						
18	1	26106-080352	BOLT, M8X 35 PLATED	3	3						
19	1	129677-01550	COVER ASSY, GEARCASE	1	1						
21	2	119934-01800	SEAL, OIL	1	1						
22	1	124240-01871	COVER	1	1						
23	1	22190-080002	WASHER, SEAL 8	1	1						
24	1	22190-080002	WASHER, SEAL 8	4	4						
25	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
26	1	119802-13590	BOLT, M8X35	1	1						
27	1	26106-080402	BOLT, M8X 40 PLATED	5	5						
28	1	26106-080602	BOLT, M8X 60 PLATED	3	3						
29	1	26106-080852	BOLT, M8X 85 PLATED	4	4						

N:Old

Yes

No

New

Q:Old

Yes

No

New

R:Old

Yes

No

New

S:Old

Yes

No

New

W:Add

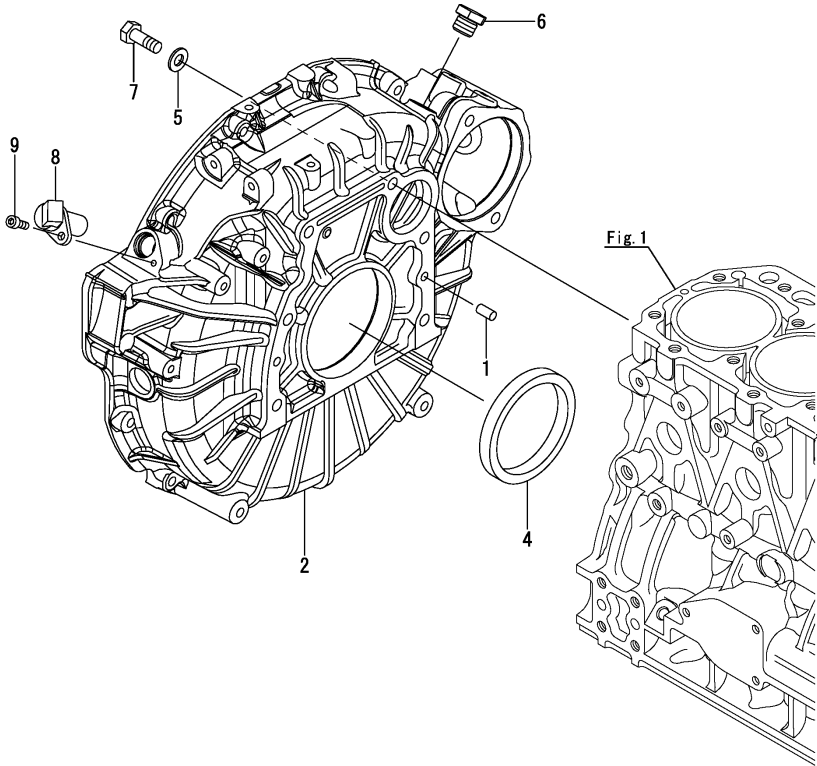
Z:Discontinued

F:Interchangeable by set

K:Q'ty Change

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Fig.3. FLYWHEEL HOUSING

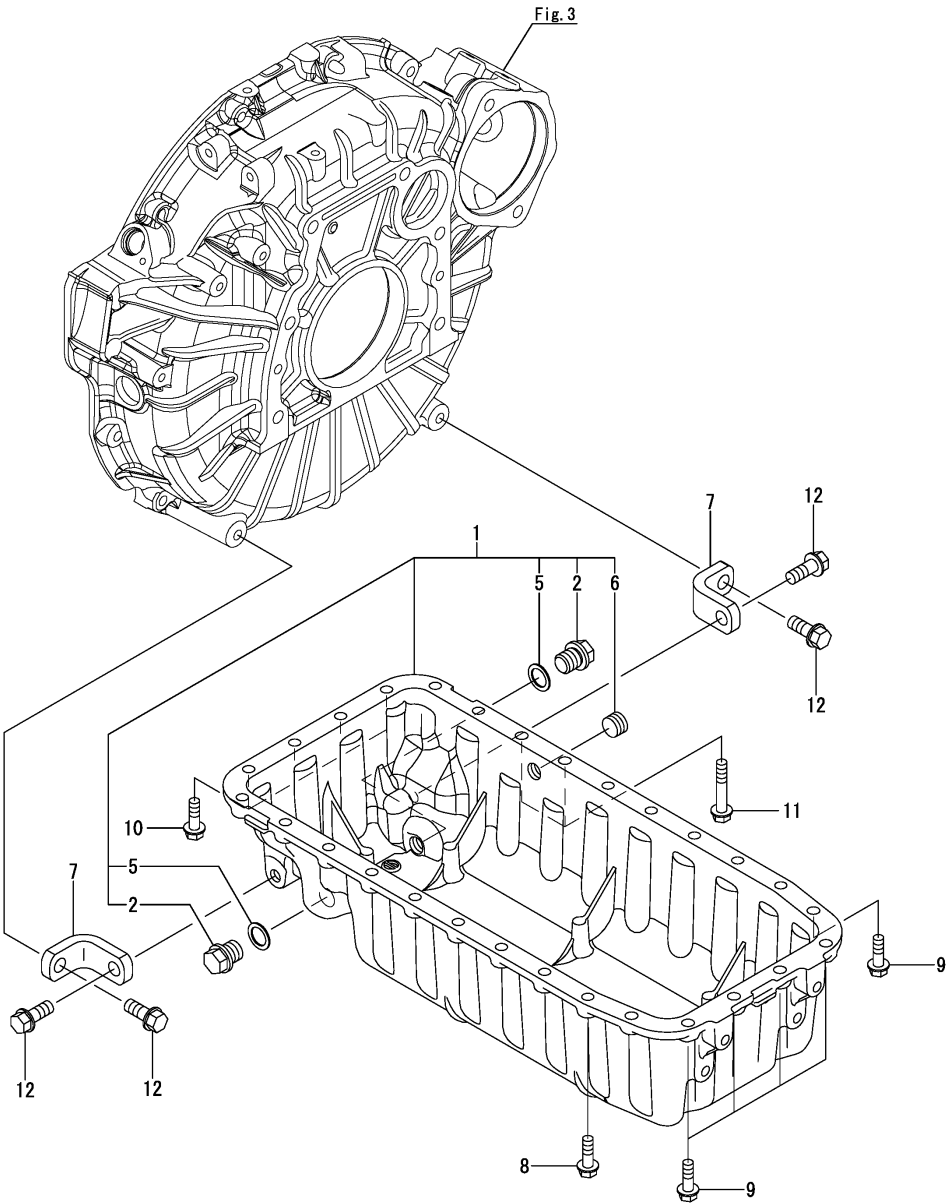


(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, 8X16	2	2						
2	1	129677-01621	HOUSING, FLYWHEEL	1	1						
4	1	129795-01780	SEAL, OIL	1	1						
5	1	22137-100000	WASHER, 10	6	6						
6	1	23887-180002	PLUG, 18	1	1						
7	1	26206-100302	BOLT, M10X 30 PLATED	6	6						
8	1	129A00-21710	SENSOR, FLYWHEEL REV	1	1						
9	1	26450-060162	BOLT, M6X 16	1	1						

Fig.4. LUB. OIL SUMP



(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129673-01700	SUMP ASSY, OIL	1	1						
2	2	105425-01690	PLUG, 16	2	2						
5	2	22190-160002	WASHER, SEAL 16	2	2						
6	2	23875-030000	PLUG, R03	1	1						
7	1	129470-01710	BRACKET	2	2						
8	1	26106-080252	BOLT, M8X 25 PLATED	16	16						
9	1	26106-080252	BOLT, M8X 25 PLATED	6	6						
10	1	26106-080252	BOLT, M8X 25 PLATED	4	4						
11	1	26106-080452	BOLT, M8X 45 PLATED	2	2						
12	1	26106-100252	BOLT, M10X 25 PLATED	4	4						

Fig.5. BREATHER

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-03090	PIPE, BREATHER	1	1						
2	1	124398-49700	CLIP, HOSE 24.0	1	1						
3	1	29621-200001	BAND, TR200	1	1						

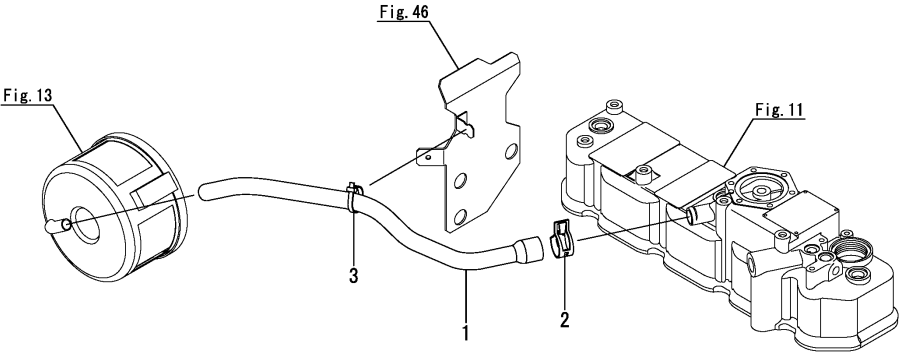
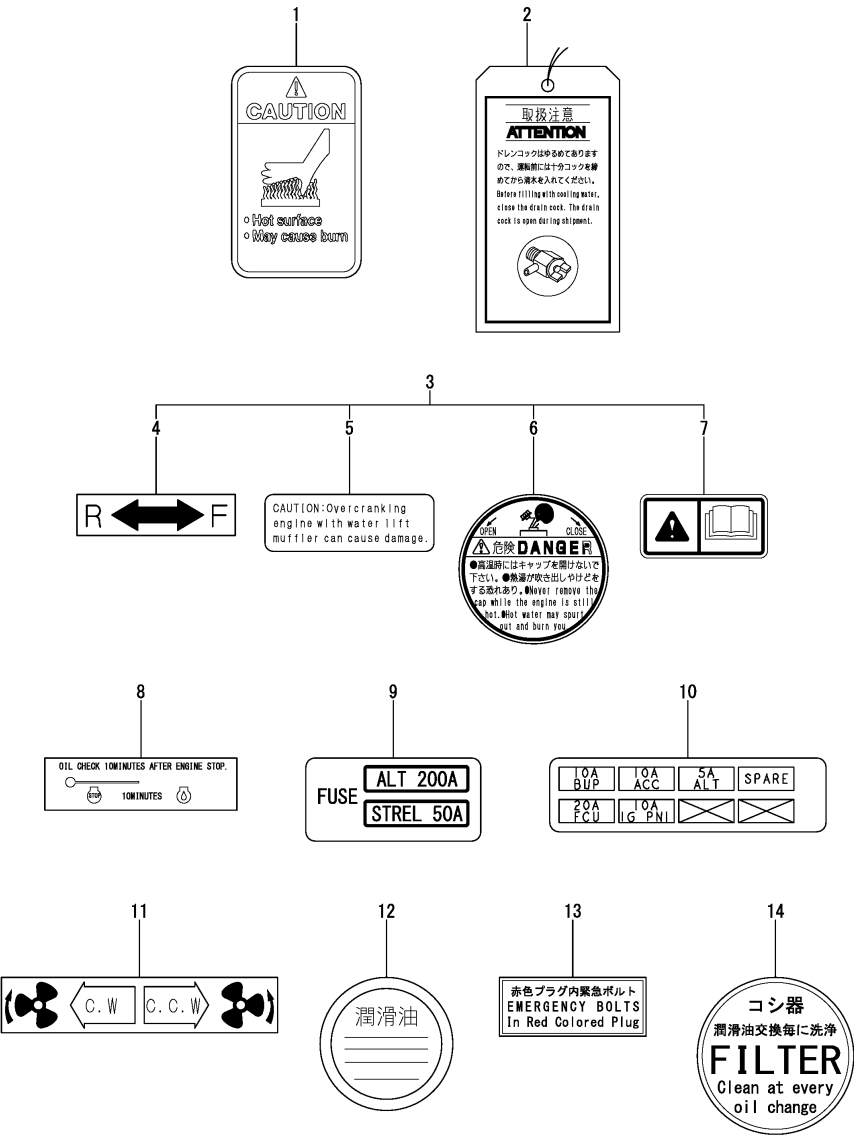


Fig.6. LABEL



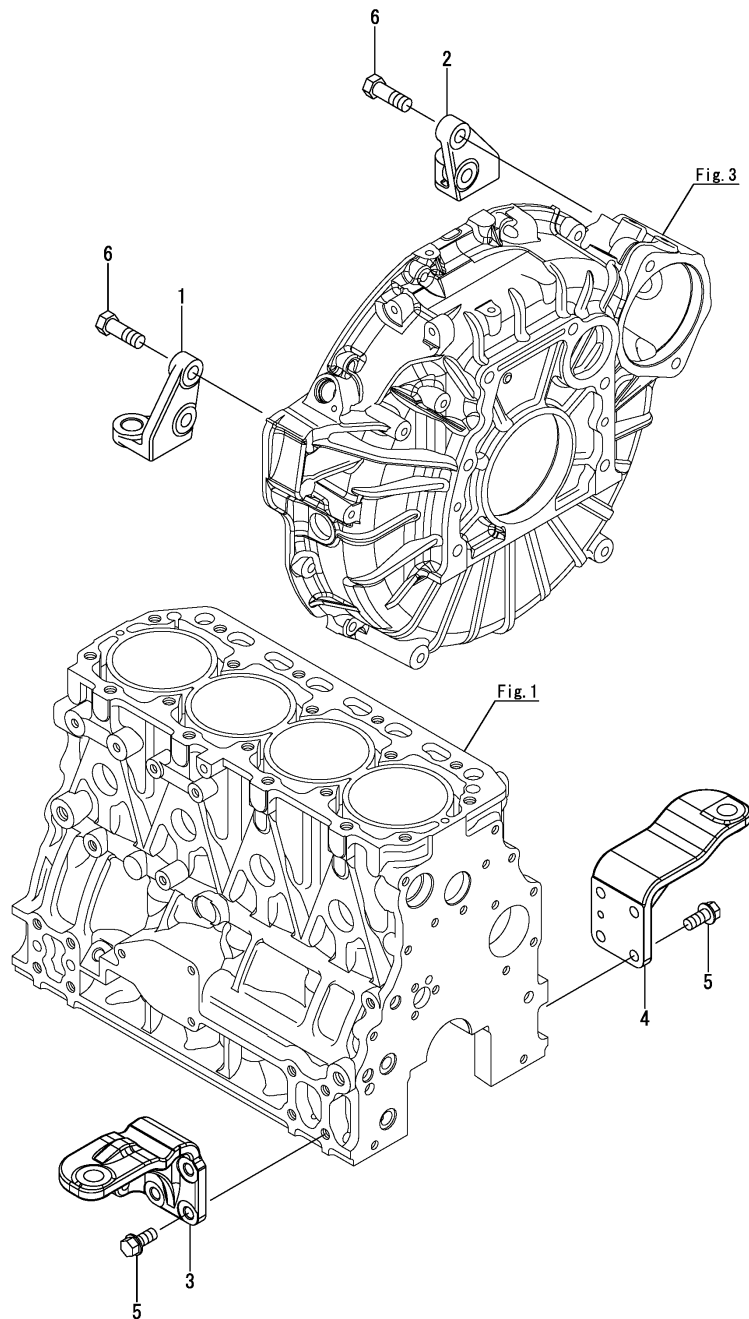
Remarks
(1)For KM4A2, KMH4A (Optional parts.)
(2)For KMH4A (Optional parts.)

(A)=4JH80
(B)=4JH110
(C)=

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

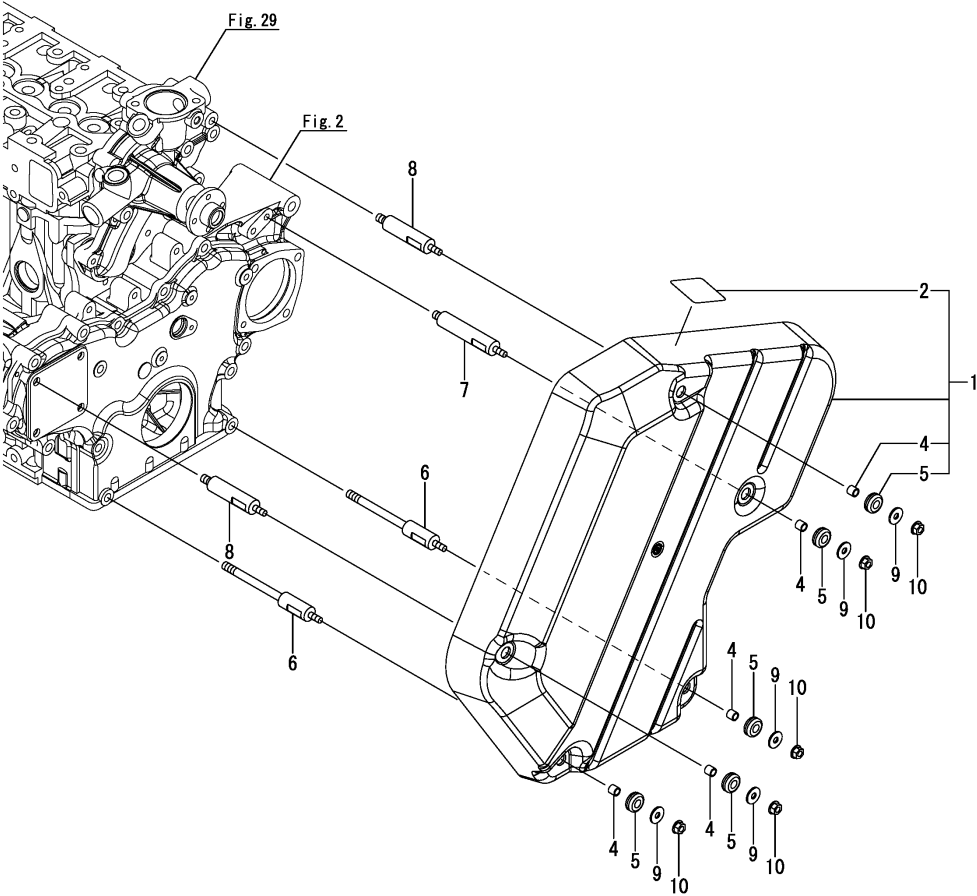
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	120650-07060	LABEL, HOT SURFACE	1	1						
2	1	123682-07852	LABEL, CAUTION	1	1						
3	1	128990-07900	LABEL ASSY,CAUTION	1	1						
4	2	177088-02430	LABEL	1	1						
5	2	128377-07150	LABEL, CAUTION	1	1						
6	2	128990-07270	LABEL, PRESSURE CAP	1	1						
7	2	196630-12980	LABEL, CAUTION	1	1						
8	1	128990-34900	LABEL,OIL CHECK	1	1						
9	1	129677-07800	LABEL, FUSE	1	1						
10	1	129677-07810	LABEL, FUSE LOCATION	1	1						
11	1	177073-02431	LABEL, DIRECTION	1	1						1
12	1	177050-02811	LABEL	1	1						2
13	1	177061-02811	LABEL,EMERGENCY BOLT	1	1						2
14	1	177050-02821	LABEL, STRAINER	1	1						2

Fig.7. MOUNTING FOOT



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-08150	FOOT	1	1						
2	1	129671-08160	FOOT	1	1						
3	1	129671-08211	FOOT, MOUNTING F-INT	1	1						
4	1	129670-08220	FOOT	1	1						
5	1	26106-100222	BOLT, M10X 22 PLATED	8	8						
6	1	26116-120352	BOLT, M12X 35 PLATED	4	4						

Fig.8. BELT COVER

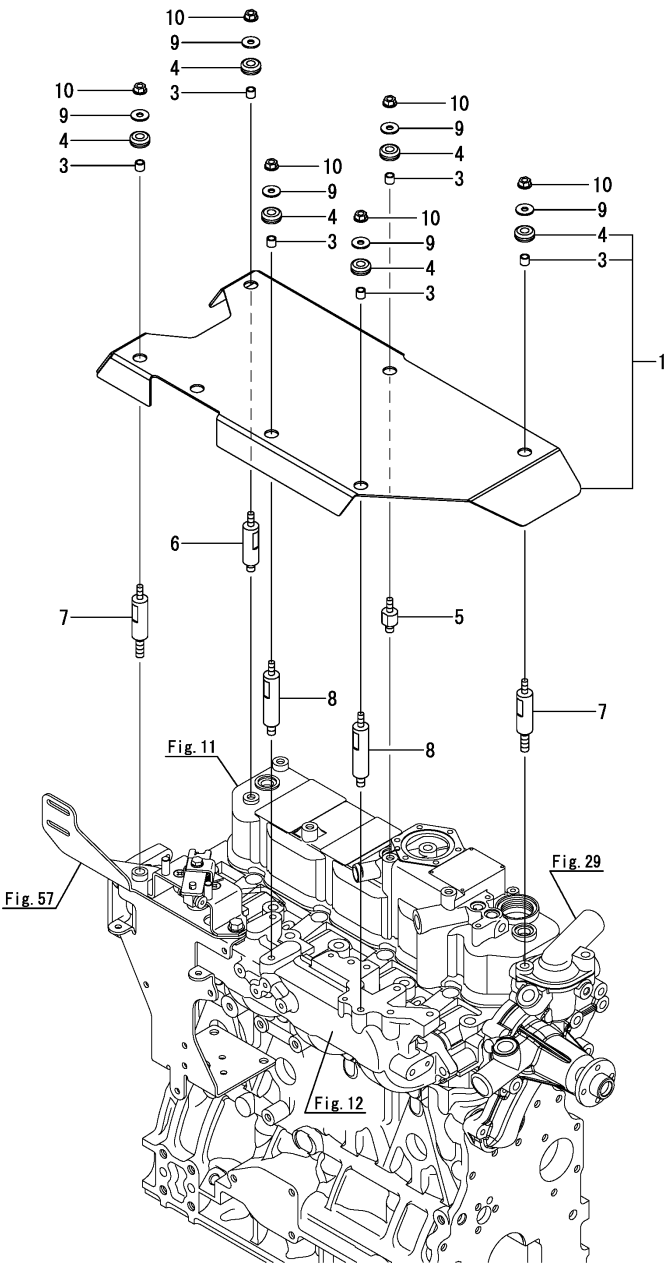


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-09000	COVER ASSY, BELT	1	1						
2	2	128377-07350	LABEL, CAUTION	1	1						
4	2	128990-77441	COLLAR, M6	5	5						
5	2	128990-77600	GROMMET, M6	5	5						
6	1	129677-09411	BOLT, SPACER L=38	2	2						
7	1	129677-09431	BOLT, SPACER L=75	1	1						
8	1	129677-09481	BOLT, SPACER L=60	2	2						
9	1	128990-77510	WASHER	5	5						
10	1	26366-060002	NUT, M6	5	5						

Fig.9. ENGINE COVER

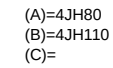
(A)=4JH80
(B)=4JH110
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-09201	COVER ASSY, ENG. TOP	1	1						
3	2	128990-77441	COLLAR, M6	6	6						
4	2	128990-77600	GROMMET, M6	6	6						
5	1	129677-09451	BOLT, SPACER L=14	1	1						
6	1	129677-09461	BOLT, SPACER L=45	1	1						
7	1	129677-09471	BOLT, SPACER L=47	2	2						
8	1	129677-09481	BOLT, SPACER L=60	2	2						
9	1	128990-77510	WASHER	6	6						
10	1	26366-060002	NUT, M6	6	6						

Fig.10. CYLINDER HEAD



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129601-11241	SHAFT ASSY, ROCKER	1	1						
2	2	129601-11251	SHAFT, ROCKER ARM	1	1						
3	2	119802-11260	SUPPORT, ROCKER ARM	2	2						
4	2	119802-11270	SUPPORT, ROCKER ARM	3	3						
5	2	129150-11280	SPRING	4	4						
6	2	129004-11650	ARM, ROCKER	8	8						
7	3	129150-11230	SCREW, VALVE ADJUST	8	8						
9	3	129150-11750	NUT, M8	8	8						
10	2	26226-080182	STUD, M8X 18	3	3						
11	1	129150-11370	CAP, VALVE	8	8						
12	1	129677-11700	HEAD ASSY, CYLINDER	1	1						
21	3	27241-400000	PLUG, 40	2	2						
22	2	129005-11100	VALVE, INTAKE	4	4						
23	2	129795-11120	SPRING, VALVE	8	8						
24	2	129100-11130	VALVE, EXHAUST	4	4						
25	2	129795-11180	RETAINER, SPRING	8	8						
26	2	121400-11340	SEAL, VALVE STEM	4	4						
27	2	124460-11340	SEAL, VALVE STEM	4	4						
28	2	27310-080001	COTTER, 8	8	8						
30	1	129978-11871	GASKET,INJECTOR	4	4						
31	1	129A00-11900	RETAINER, INJECTOR	4	4						
32	1	120270-54410	WASHER, INJECTOR	4	4						
33	1	22351-060012	PIN, SPRING 6.0X12	2	2						
34	1	26106-080252	BOLT, M8X 25 PLATED	3	3						
35	1	26106-080352	BOLT, M8X 35 PLATED	4	4						
36	1	26106-080502	BOLT, M8X 50 PLATED	7	7						
37	1	129900-07900	LIFTER	2	2						
38	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
39	1	120130-11860	GUIDE, VALVE	4	4						1
40	1	129150-11810	GUIDE, VALVE	4	4						1

Remarks
(1) Spare parts.

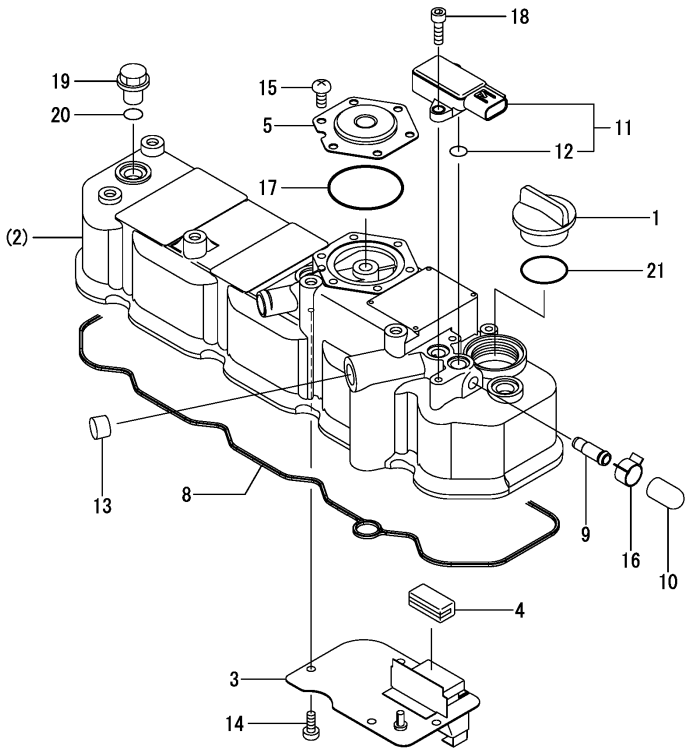
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Fig.11. BONNET

(A)=4JH80
(B)=4JH110
(C)=

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

2 inc. (2)~18



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-01751	COVER, FILLER	1	1						
2	1	129677-11350	BONNET ASSY	1	1						
3	2	129685-03010	PLATE	1	1						
4	2	129150-03070	BAFFLE, BREATHER	1	1						
5	2	129C28-03120	PLATE, BREATHER	1	1						
8	2	129C00-11310	GASKET, COVER	1	1						
9	2	129A00-11330	JOINT	1	1						
10	2	127605-11370	CAP	1	1						
11	2	129A00-12703	SENSOR,PRESSURE	1	1						
12	3	129A00-12780	O-RING,PRES SENSOR	2	2						
13	2	119640-61400	PLUG	1	1						
14	2	22857-500100	SCREW, 5X10	4	4						
15	2	22857-500100	SCREW, 5X10	6	6						
16	2	23080-012000	CLAMP, 12	1	1						
17	2	24341-000500	O-RING, 1AS50.0	1	1						
18	2	26450-060162	BOLT, M6X 16	2	2						
19	1	124160-11360	KNOB	3	3						
20	1	24311-000120	O-RING, 1AP12.0	3	3						
21	1	24311-000320	O-RING, 1AP32.0	1	1						

Fig.12. INTAKE MANIFOLD

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-12101	MANIFOLD ASSY,INTAKE	1	1						
4	2	23876-005000	PLUG, R005	1	1						
5	2	26216-060202	STUD, M6X 20	4	4						
6	1	129677-12130	GASKET,INT. MANIFOLD	1	1						
7	1	105430-67110	CLAMP, CORD	1	1						
8	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
9	1	26106-080202	BOLT, M8X 20 PLATED	5	5						

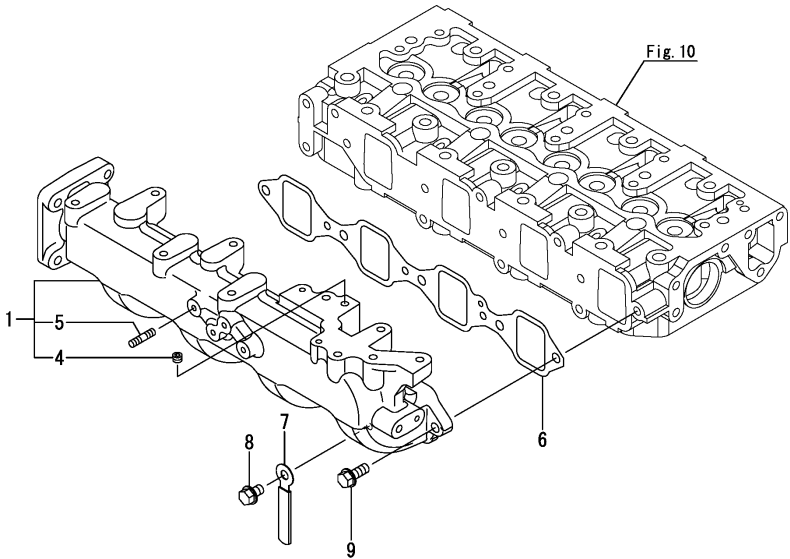


Fig.13. INTAKE SILENCER

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-12301	SILENCER ASSY	1	1						
3	2	129470-12320	PLATE	1	1						
4	2	129470-12330	ELEMENT ASSY	1	1						
5	1	23000-054000	CLAMP, 54	1	1						

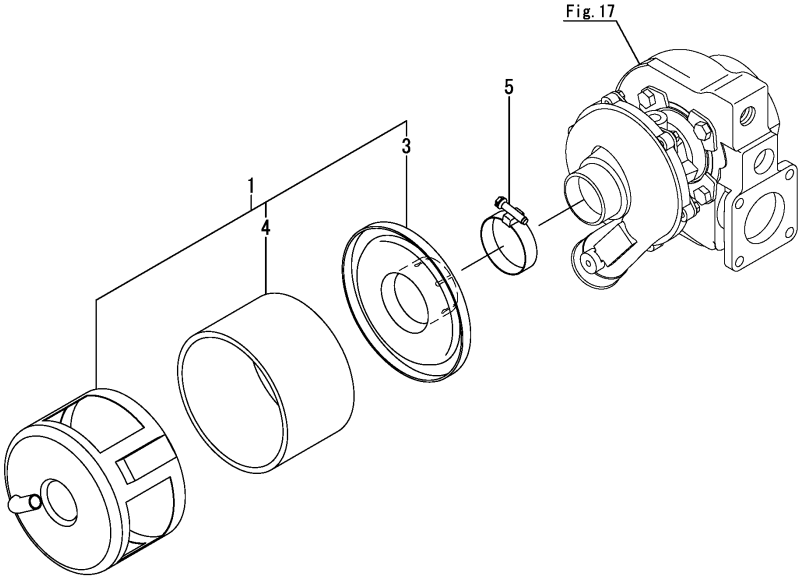


Fig.14. MIXING ELBOW(STANDARD TYPE)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129472-13520	GASKET	1	1						
2	1	129673-13552	ELBOW,WATER MIXING	1	1						
3	1	129671-13570	PLUG G 1/4A	1	1						
4	1	22137-080000	WASHER, 8	3	3						
5	1	23414-130000	GASKET, 13X1.0	1	1						
6	1	26703-080002	NUT, M8	3	3						

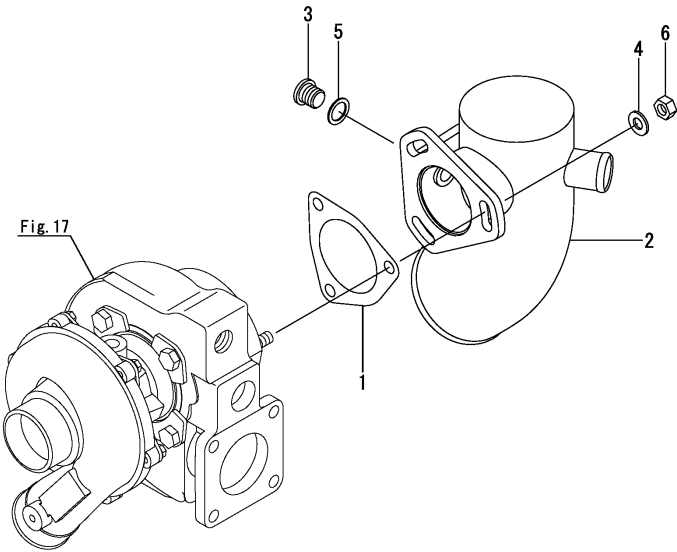


Fig.15. MIXING ELBOW(U TYPE)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129472-13501	ELBOW ASSY	1	1						
3	2	129472-13560	PLUG, PT3/4	1	1						
4	2	23414-130000	GASKET, 13X1.0	1	1						
5	2	23893-020002	PLUG, G1/4	1	1						
6	1	129472-13520	GASKET	1	1						
7	1	129472-13550	SUPPORT	1	1						
8	1	129472-13560	PLUG, PT3/4	1	1						
9	1	129677-13800	BRACKET, MIX. ELBOW	1	1						
10	1	129673-49060	ELBOW, 45	1	1						
11	1	22137-080000	WASHER, 8	5	5						
12	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
13	1	26106-080352	BOLT, M8X 35 PLATED	4	4						
14	1	26703-080002	NUT, M8	3	3						

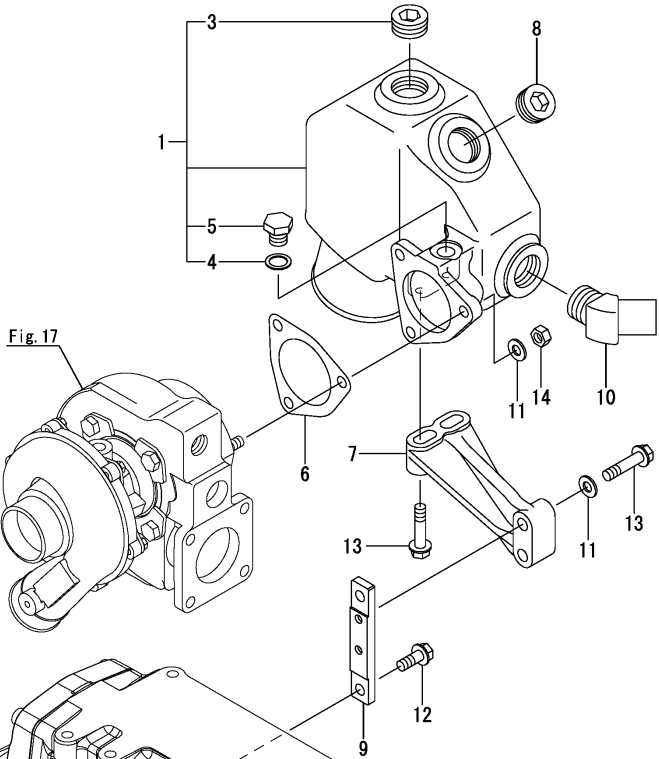
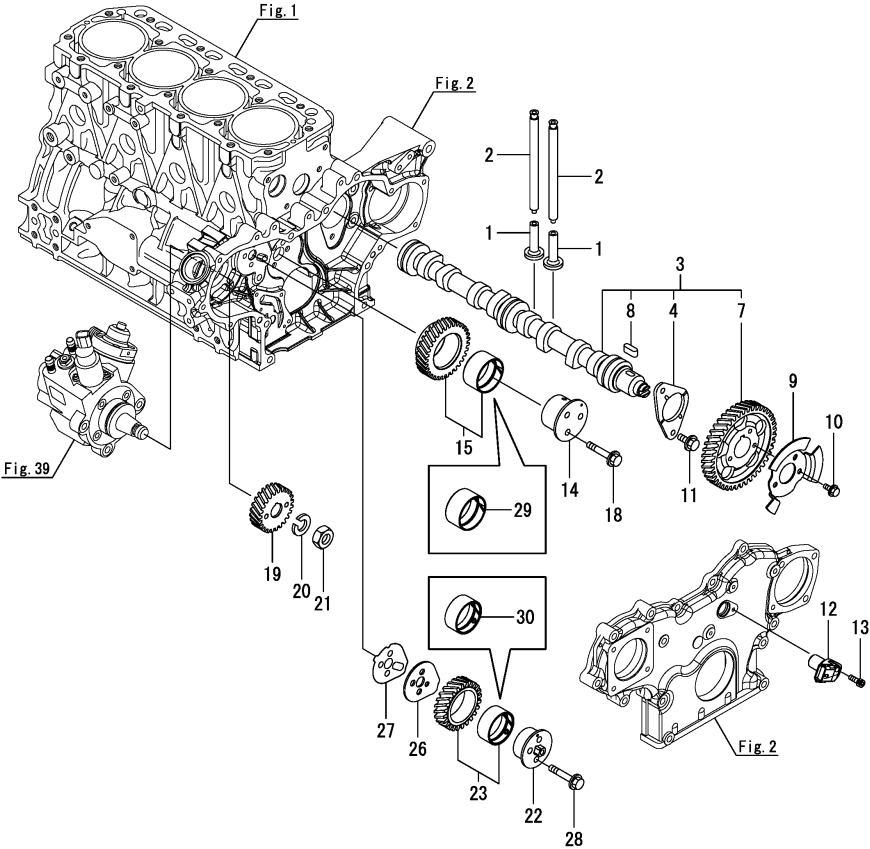


Fig.16. CAMSHAFT & DRIVING GEAR

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8	8						
2	1	129150-14400	ROD, PUSH L=178	8	8						
3	1	129C28-14580	CAMSHAFT ASSY	1	1						
4	2	129150-02450	BEARING, THRUST	1	1						
7	2	129A00-14100	GEAR,CAMSHAFT	1	1						
8	2	22512-070140	KEY, 7X 14	1	1						
9	1	129A00-14700	PULSER, CAMSHAFT	1	1						
10	1	26106-060102	BOLT, M6X 10 PLATED	3	3						
11	1	26106-080142	BOLT, M8X 14 PLATED	2	2						
12	1	129A00-14710	SENSOR, GEAR REV	1	1						
13	1	26450-060162	BOLT, M6X 16	1	1						
14	1	129A00-25050	SHAFT, IDLE GEAR A	1	1						
15	1	129677-25110	GEAR ASSY, IDLE A	1	1						
18	1	26106-080452	BOLT, M8X 45 PLATED	3	3						
19	1	129A00-25900	GEAR, SUPPLY PUMP	1	1						
20	1	22217-180000	WASHER, SPRING 18	1	1						
21	1	26776-180002	NUT, LOCK M18	1	1						
22	1	129677-25060	SHAFT, IDLE GEAR B	1	1						
23	1	129A00-25120	GEAR ASSY, IDLE B	1	1						
26	1	129677-25200	PLATE, IDLE SHAFT B	1	1						
27	1	129677-25210	GASKET, IDLE SHAFT B	1	1						
28	1	26106-080402	BOLT, M8X 40 PLATED	3	3						
29	1	119802-25071	BUSH, IDLE GEAR	1	1						1
30	1	129A00-25080	BUSH	1	1						1



Remarks
(1)Spare parts.

Fig.17. TURBOCHARGER

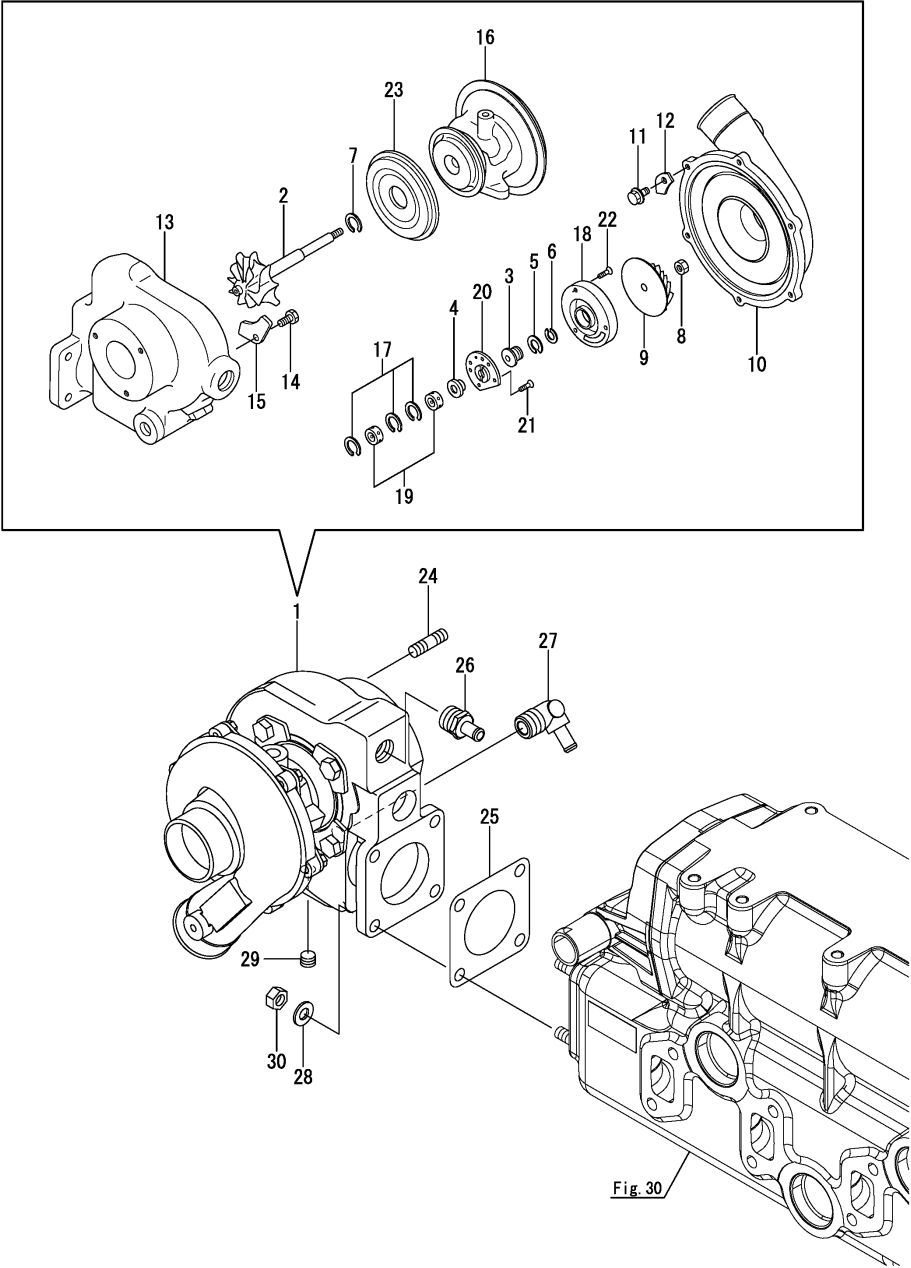


Fig. 30

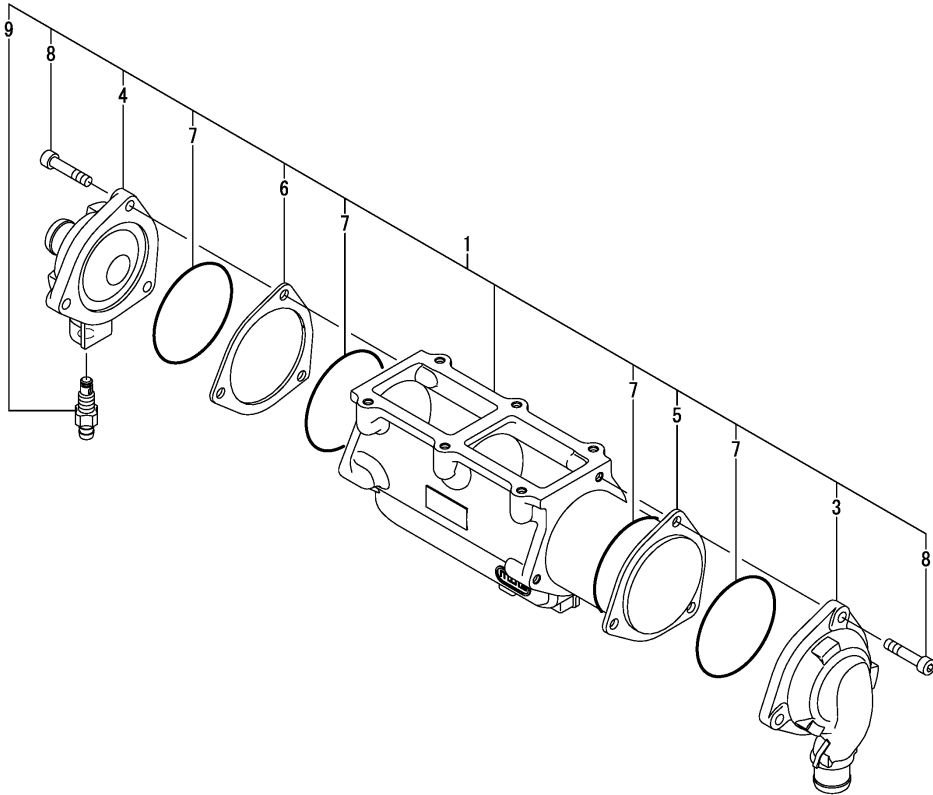
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-18001	TURBINE, B52W-TE	1	1						
2	2	XNN131614	SHAFT	1	1						
3	2	XNN131578	SHELTER	1	1						
4	2	XNN131579	BUSH, THRUST	1	1						
5	2	XNB131008	SEAL RING,BLOW.SIDE	1	1						
6	2	XNN131008	SEAL RING,BLOW.SIDE	1	1						
7	2	XNN131536	SEALING	1	1						
8	2	XNN131108	NUT	1	1						
9	2	XNN136613	IMPELLER	1	1						
10	2	XNN133911	HOUSING,BLOWER	1	1						
11	2	XNB134007	BOLT M 5	6	6						
12	2	XNN134035	RETAINER	6	6						
13	2	XNE928727	HOUSING	1	1						
14	2	XNN137007	BOLT, M8	5	5						
15	2	XNN137423	RETAINER	5	5						
16	2	XNE923383	HOUSING,BEARING	1	1						
17	2	XNN133208	CIRCLIP	3	3						
18	2	XNN133022	PLATE, SEAL	1	1						
19	2	XNN133506	METAL, FLOATING	2	2						
20	2	XNN133596	METAL,THRUST	1	1						
21	2	XNB133206	SCREW	4	4						
22	2	XNB133208	SCREW(SEAL PLATE	3	3						
23	2	XNN137055	PROTECTOR, HEAT	1	1						
24	1	129670-13600	STUD	3	3						
25	1	129472-18090	GASKET	1	1						
26	1	129677-49300	JOINT, HOSE R3/8	1	1						
27	1	171007-49400	JOINT	1	1						
28	1	22133-080000	WASHER, 8	4	4						
29	1	23876-010000	PLUG, R01	1	1						
30	1	26703-080002	NUT, M8	4	4						

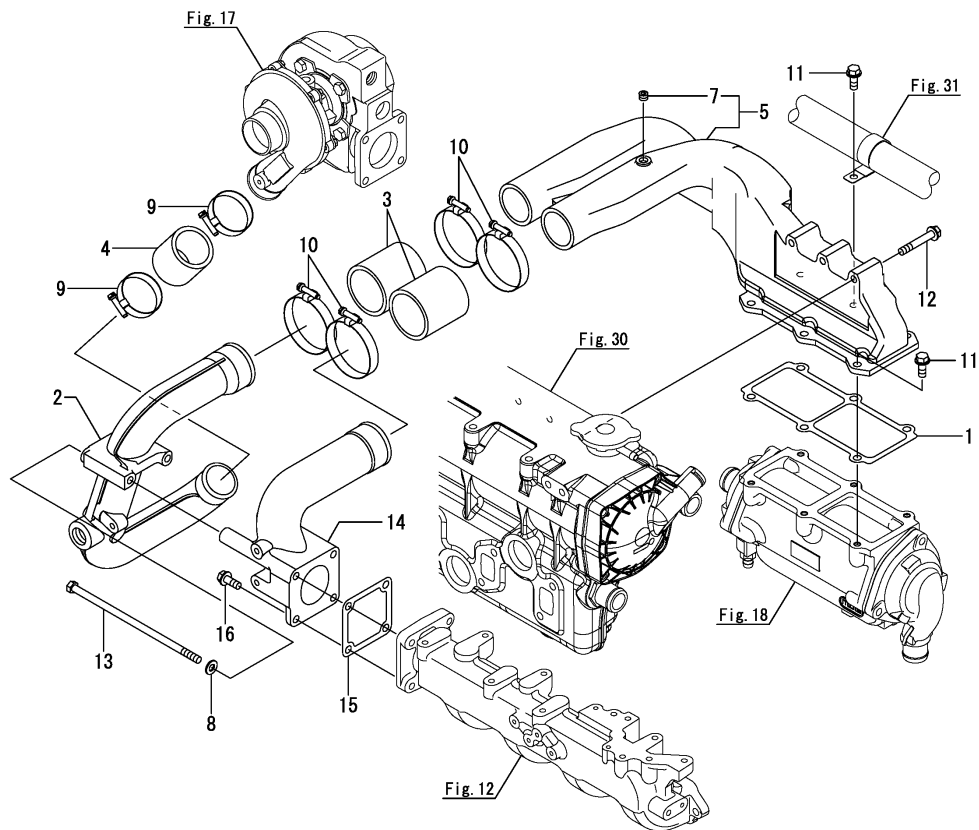
(A)=4JH80
(B)=4JH110
(C)=

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



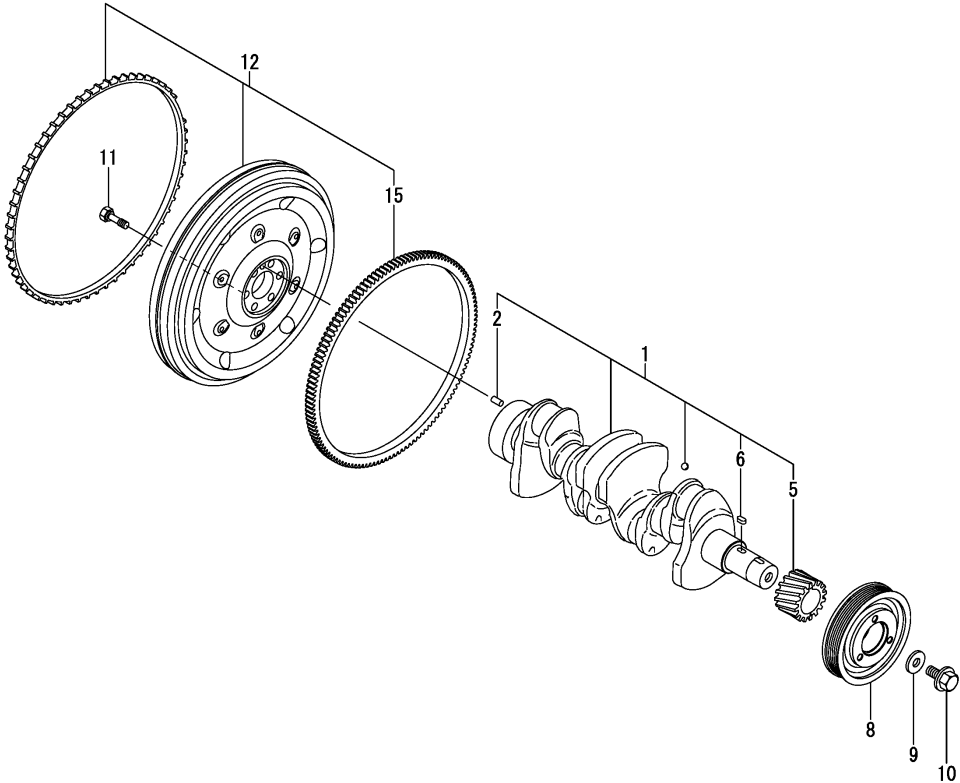
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-18110	COOLER ASSY, INTER	1	1						
3	2	129672-18130	COVER	1	1						
4	2	129672-18140	COVER	1	1						
5	2	129672-18150	ELEMENT	1	1						
6	2	129672-18160	SPACER	1	1						
7	2	129672-18170	O-RING, D81.2X3.53	4	4						
8	2	129672-18180	BOLT, M8X40	6	6						
9	2	129672-18190	PLUG ASSY, DRAIN	1	1						

Fig.19. AIR DUCT



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129573-18120	GASKET	1	1				
2	1	129595-18132	DUCT, AIR	1	1				
3	1	129673-18140	JOINT, RUBBER	2	2				
4	1	129671-18150	JOINT, RUBBER	1	1				
5	1	129474-18181	DUCT ASSY, AIR	1	1				
7	2	23876-010000	PLUG, R01	1	1				
8	1	22137-080000	WASHER, 8	2	2				
9	1	23000-054000	CLAMP, 54	2	2				
10	1	23000-070000	CLAMP, 70	4	4				
11	1	26106-080202	BOLT, M8X 20 PLATED	6	6				
12	1	26106-080502	BOLT, M8X 50 PLATED	3	3				
13	1	26116-082002	BOLT, M8X200 PLATED	2	2				
14	1	129474-18151	BEND	1	1				
15	1	129150-77511	GASKET	1	1				
16	1	26106-080202	BOLT, M8X 20 PLATED	2	2				

Fig.20. CRANKSHAFT & FLYWHEEL

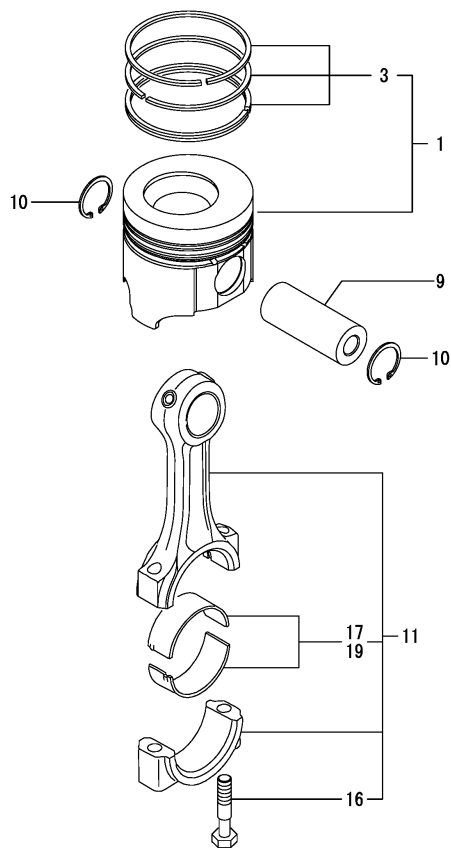


(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129698-21001	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PIN, 8X16	1	1						
5	2	129189-21200	GEAR, CRANKSHAFT	1	1						
6	2	22512-070140	KEY, 7X 14	1	1						
8	1	129677-21600	PULLEY, CRANK RIB	1	1						
9	1	129795-21661	WASHER	1	1						
10	1	121850-21680	BOLT	1	1						
11	1	121111-21501	BOLT, FLYWHEEL	6	6						
12	1	129677-21581	FLYWHEEL ASSY	1	1						
15	2	124550-21600	GEAR, RING	1	1						

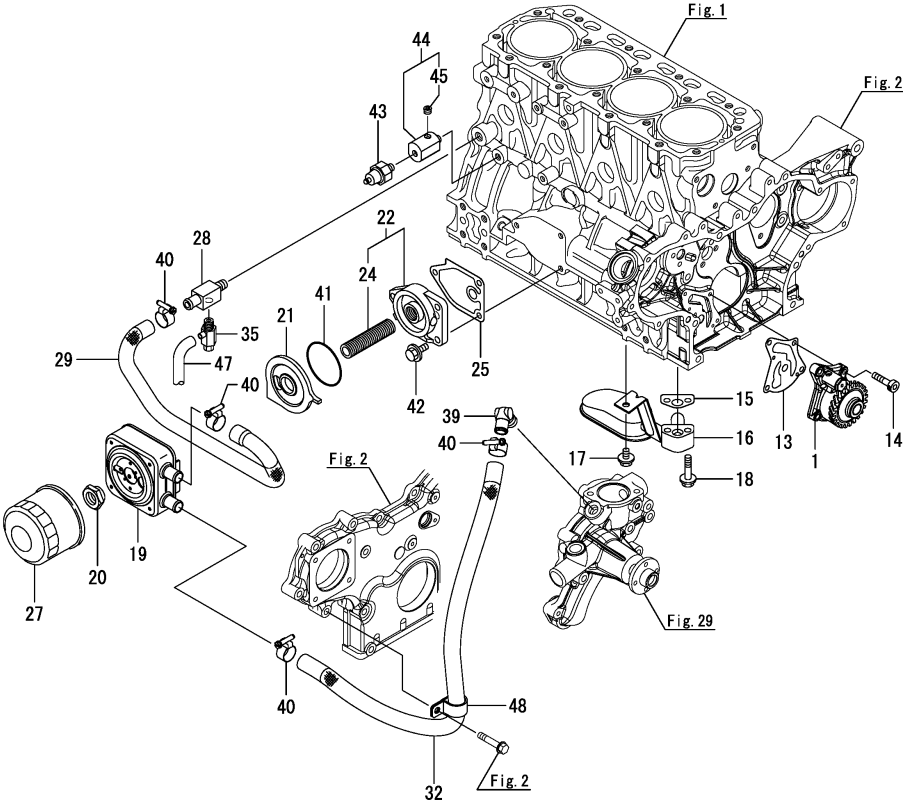
Fig.21. PISTON & CONNECTING ROD



				(A)=4JH80 (B)=4JH110 (C)=	(D)= (E)= (F)=					I	R
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C) (D) (E) (F)					
1	1	129677-22000	PISTON ASSY	4	4						
3	2	129673-22501	RING SET,PISTON	4	4						
9	1	129573-22301	PIN, PISTON D28 L69	4	4						
10	1	22252-000280	RING, 28	8	8						
11	1	729573-23700	ROD ASSY, CONNECTING	4	4						
16	3	121550-23200	BOLT, CONNECTING ROD	8	8						
17	2	129150-23601	BEARING, CRANK PIN	4	4						
19	1	129150-23611	BEARING, 0.25 US	4	4						1

Remarks
(1) Under-sized (U.S.=0.25) parts.

Fig.22. LUB. OIL SYSTEM



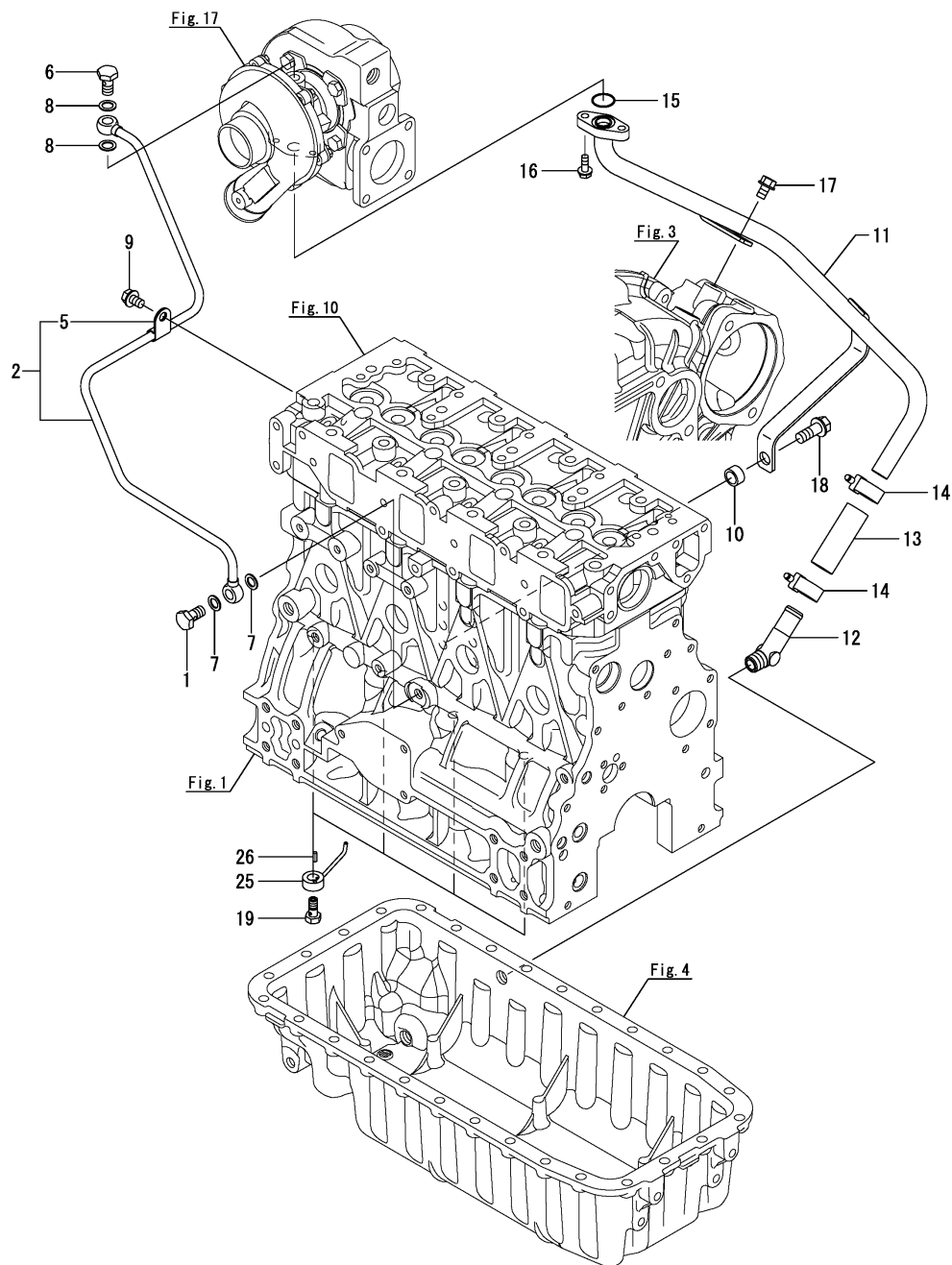
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-32000	PUMP ASSY,LUB.OIL	1	1						
13	1	129486-32020	GASKET, PUMP	1	1						
14	1	26450-060252	BOLT, M6X 25	4	4						
15	1	129150-35042	GASKET	1	1						
16	1	129473-35091	PIPE ASSY, OIL INLET	1	1						
17	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
18	1	26106-080352	BOLT, M8X 35 PLATED	2	2						
19	1	129677-33000	COOLER ASSY, LO	1	1						
20	1	129677-33100	NUT, LO COOLER M20	1	1						
21	1	129C01-33100	BRACKET, LO COOLER	1	1						
22	1	129648-35100	BRACKET ASSY, FILTER	1	1						
24	2	129648-35150	STUD	1	1						
25	1	129150-35111	GASKET	1	1						
27	1	129150-35153	FILTER	1	1						1
28	1	129006-44480	JOINT	1	1						
29	1	129677-49220	HOSE ASSY, CW LOC-IN	1	1						
32	1	129677-49250	HOSE ASSY, CW C-OUT	1	1						
35	1	119620-49290	COCK ASSY, 1/4	1	1						
39	1	129051-49310	ELBOW, PT3/8	1	1						
40	1	23000-022000	CLAMP, 22	4	4						
41	1	24321-000600	O-RING, 1AG60.0	1	1						
42	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
43	1	121252-39450	SWITCH, 0.5KG	1	1						
44	1	129670-39600	DAMPER ASSY, R1/8	1	1						
45	2	23875-010000	PLUG, R01	1	1						
47	1	23061-070300	PIPE, 7X 300	1	1						
48	1	121575-49310	RETAINER, PIPE	1	1						

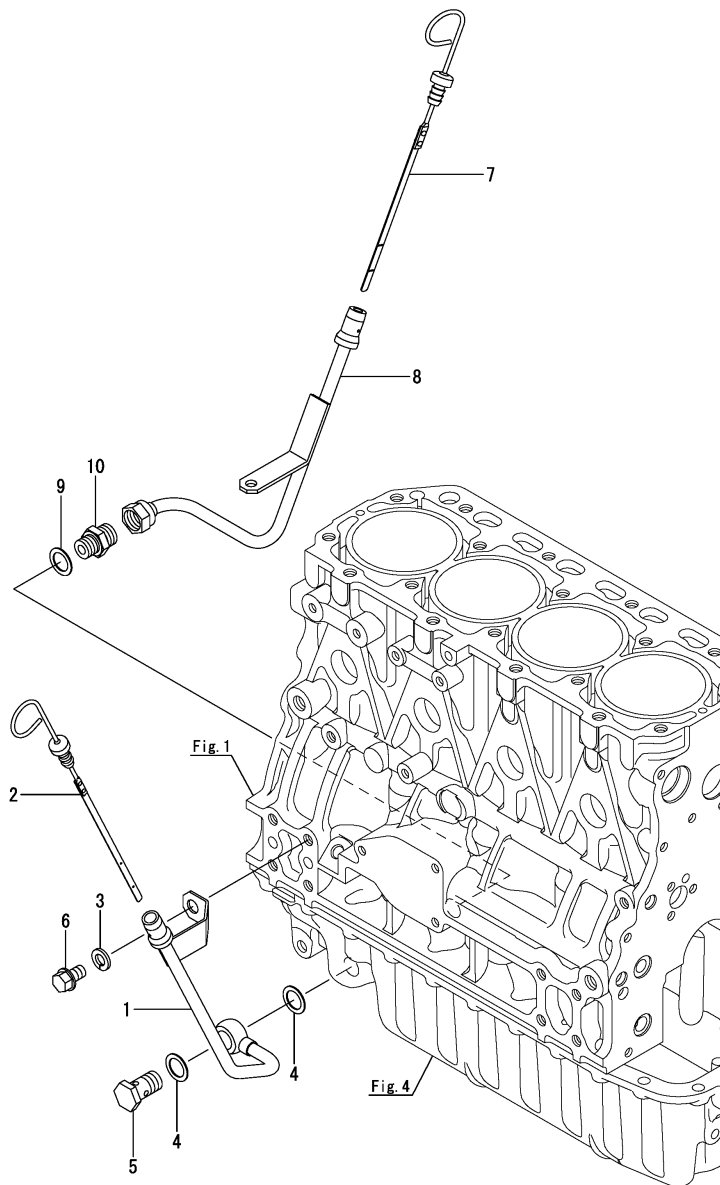
Remarks
(1)Spare parts.

Fig.23. LUB. OIL PIPE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-39140	BOLT, PIPE JOINT M10	1	1						
2	1	129677-39400	PIPE ASSY, LO T/C-IN	1	1						
5	2	124223-39900	RETAINER	1	1						
6	1	124413-39710	BOLT, PIPE JOINT M10	1	1						
7	1	22190-100002	WASHER, SEAL 10	2	2						
8	1	23414-100000	GASKET, 10X1.0	2	2						
9	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
10	1	129301-34830	SPACER	1	1						
11	1	129693-39601	PIPE, OIL	1	1						
12	1	129472-39620	ELBOW, PT3/8	1	1						
13	1	123901-39820	HOSE	1	1						
14	1	23000-025000	CLAMP, 25	2	2						
15	1	24314-000180	O-RING, 4CP18.0	1	1						
16	1	26106-060162	BOLT, M6X 16 PLATED	2	2						
17	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
18	1	26106-100252	BOLT, M10X 25 PLATED	1	1						
19	1	129792-39410	VALVE ASSY, CHECK	4	4						
25	1	129553-39650	NOZZLE	4	4						
26	1	22351-030010	PIN, SPRING 3.0X10	4	4						

Fig.24. DIPSTICK



Remarks
(1)Optional parts.

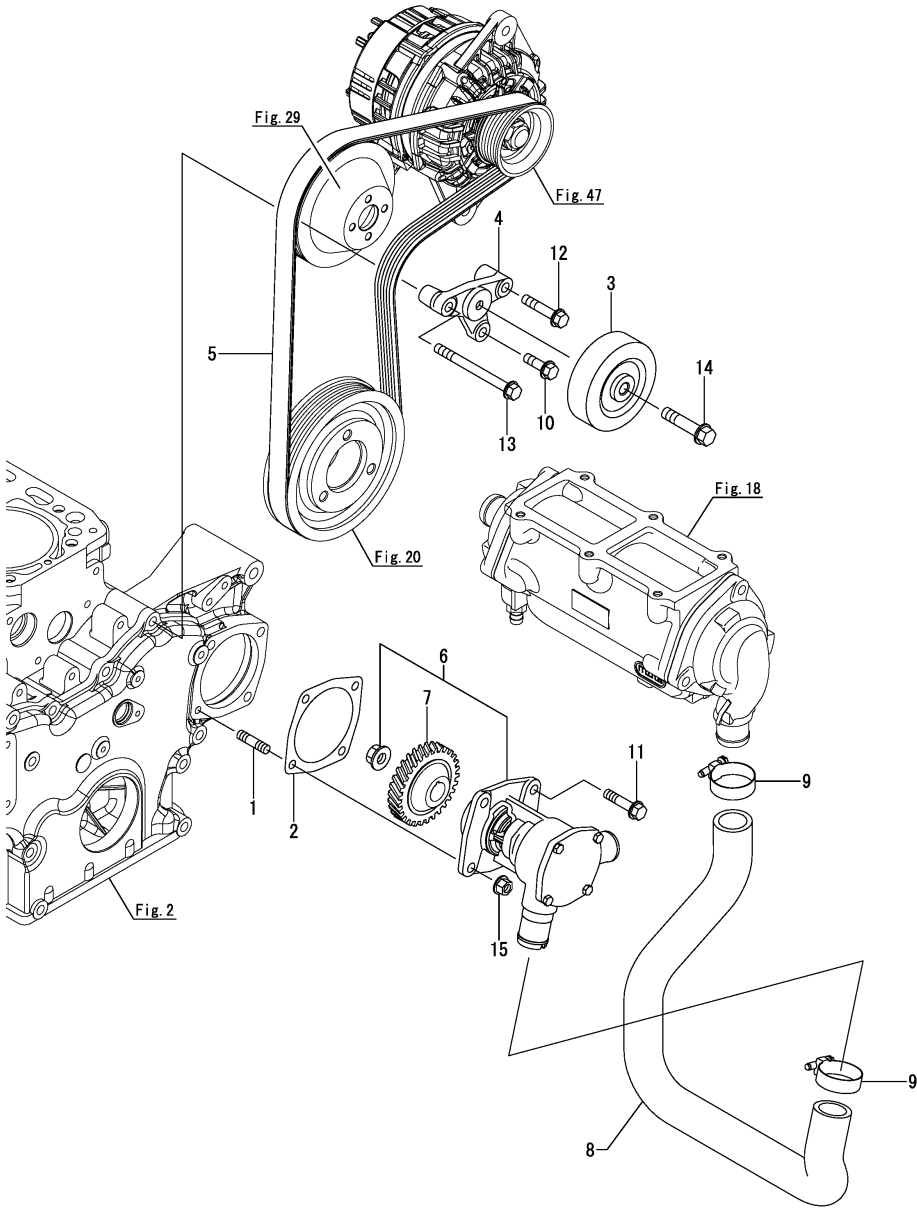
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-34800	GUIDE, DIPSTICK	1	1						
2	1	129677-34850	DIPSTICK ASSY	1	1						
3	1	22217-100000	WASHER, SPRING 10	1	1						
4	1	23414-160000	GASKET, 16X1.0	2	2						
5	1	23857-100000	BOLT, JOINT 10	1	1						
6	1	26106-100162	BOLT, M10X 16 PLATED	1	1						
7	1	129670-34810	DIPSTICK, LUB. OIL	1	1						1
8	1	129570-34880	GUIDE, DIPSTICK	1	1						1
9	1	23414-160000	GASKET, 16X1.0	1	1						1
10	1	23831-100000	UNION, 10	1	1						1

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

Fig.25. COOLING SEA WATER PUMP(FRONT MOUNT SPEC.)



(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121450-01560	STUD, M8X22	1	1						
2	1	129150-01881	GASKET	1	1						
3	1	129675-21800	PULLEY,IDLE	1	1						
4	1	129675-21810	SUPPORT,IDLE PULLEY	1	1						
5	1	129675-42280	BELT,V RIBED	1	1						
6	1	129271-42502	PUMP ASSY, SW	1	1						1
7	1	129271-42700	GEAR, PUMP	1	1						
8	1	129677-49030	HOSE, SW I/C-IN	1	1						
9	1	129670-49500	CLIP, HOSE 38	2	2						
10	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
11	1	26106-080352	BOLT, M8X 35 PLATED	3	3						
12	1	26106-080402	BOLT, M8X 40 PLATED	1	1						
13	1	26106-080902	BOLT, M8X 90 PLATED	1	1						
14	1	26106-100452	BOLT, M10X 45 PLATED	1	1						
15	1	26366-080002	NUT, M8	1	1						

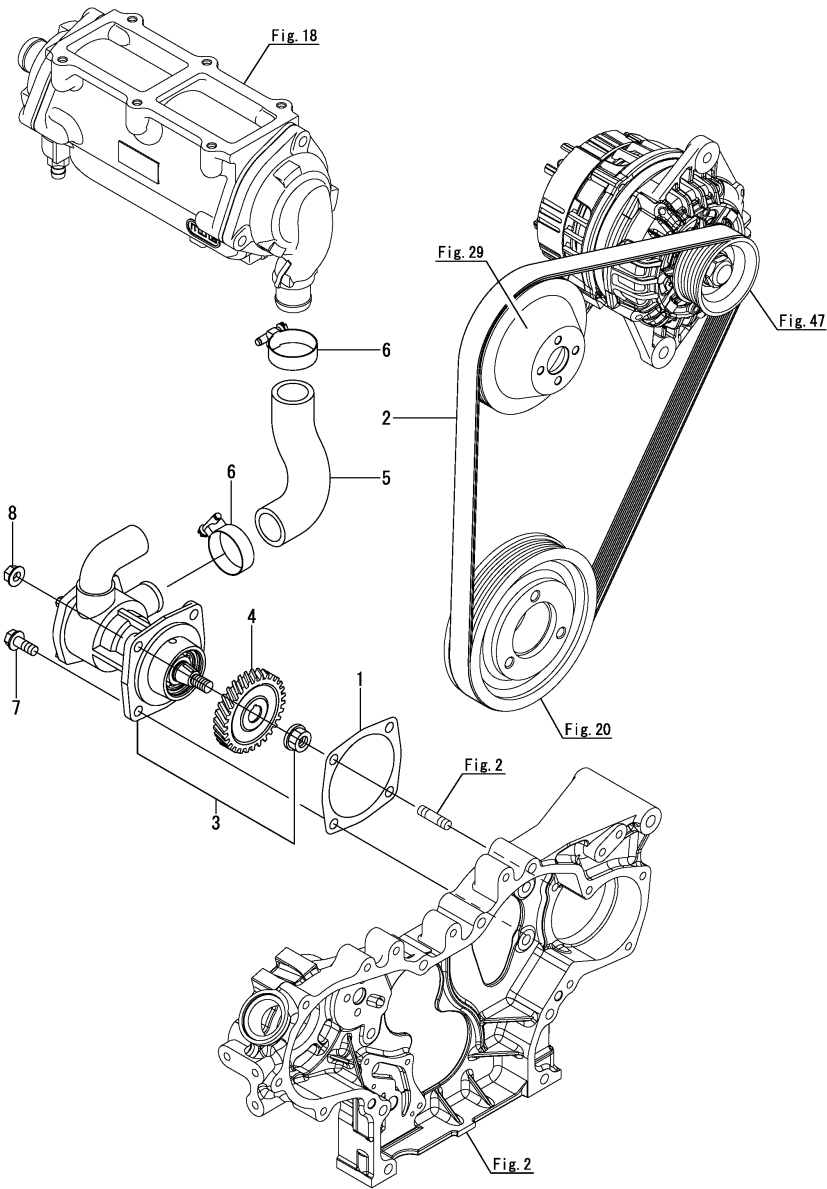
Remarks
(1)Inner parts are shown in Fig.27.

Fig.26. COOLING SEA WATER PUMP(REAR MOUNT SPEC.)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-01881	GASKET	1	1						
2	1	129677-42280	BELT,V RIBED	1	1						
3	1	129670-42513	PUMP ASSY, SW	1	1						1
4	1	129670-42700	GEAR, PUMP	1	1						
5	1	129672-49060	PIPE, WATER	1	1						
6	1	129670-49500	CLIP, HOSE 38	2	2						
7	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
8	1	26366-080002	NUT, M8	1	1						



Remarks
(1)Inner parts are shown in Fig.28.

Fig.27. COOLING SEA WATER PUMP COMPONENT PARTS(FRONT MOUNT SPEC.)

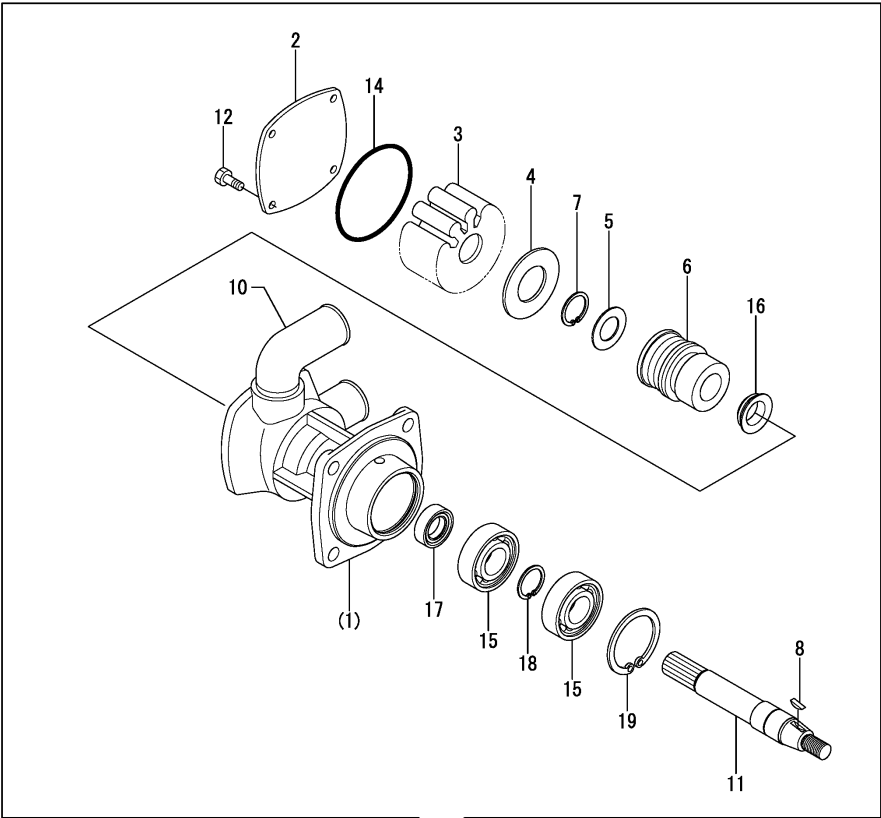


NT SPEC.)				(A)=4JH80 (B)=4JH110 (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129271-42502	PUMP ASSY, SW	1	1						
2	2	129670-42520	COVER	1	1						
3	2	129670-42531	IMPELLER	1	1						
4	2	129670-42540	PLATE	1	1						
5	2	129670-42550	WASHER	1	1						
6	2	129670-42560	SEAL, MECHANICAL	1	1						
7	2	129670-42570	CIRCLIP	1	1						
8	2	129670-42580	KEY	1	1						
10	2	123325-49421	JOINT, PIPE	1	1						
11	2	X0146531	SHAFT	1	1						
12	2	129271-42510	SCREW	4	4						
13	2	X0505526	NUT, LOCK	1	1						
14	2	119773-42570	O-RING	1	1						
15	2	X0508129	BEARING	2	2						
16	2	120650-42420	V-RING	1	1						
17	2	X0529105	SEAL	1	1						
18	2	120650-42380	CIRCLIP	1	1						
19	2	120650-42350	CIRCLIP	1	1						

Fig.28. COOLING SEA WATER PUMP COMPONENT PARTS(REAR MOUNT SPEC.)

(A)=4JH80
(B)=4JH110
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129670-42513	PUMP ASSY, SW	1	1						
2	2	129670-42520	COVER	1	1						
3	2	129670-42531	IMPELLER	1	1						
4	2	129670-42540	PLATE	1	1						
5	2	129670-42550	WASHER	1	1						
6	2	129670-42560	SEAL, MECHANICAL	1	1						
7	2	129670-42570	CIRCLIP	1	1						
8	2	129670-42580	KEY	1	1						
10	2	X01357681	CONNECTOR	1	1						
11	2	X0146531	SHAFT	1	1						
12	2	129271-42510	SCREW	4	4						
13	2	X0505526	NUT, LOCK	1	1						
14	2	119773-42570	O-RING	1	1						
15	2	X0508129	BEARING	2	2						
16	2	120650-42420	V-RING	1	1						
17	2	X0529105	SEAL	1	1						
18	2	120650-42380	CIRCLIP	1	1						
19	2	120650-42350	CIRCLIP	1	1						

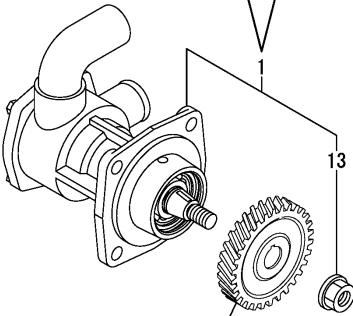
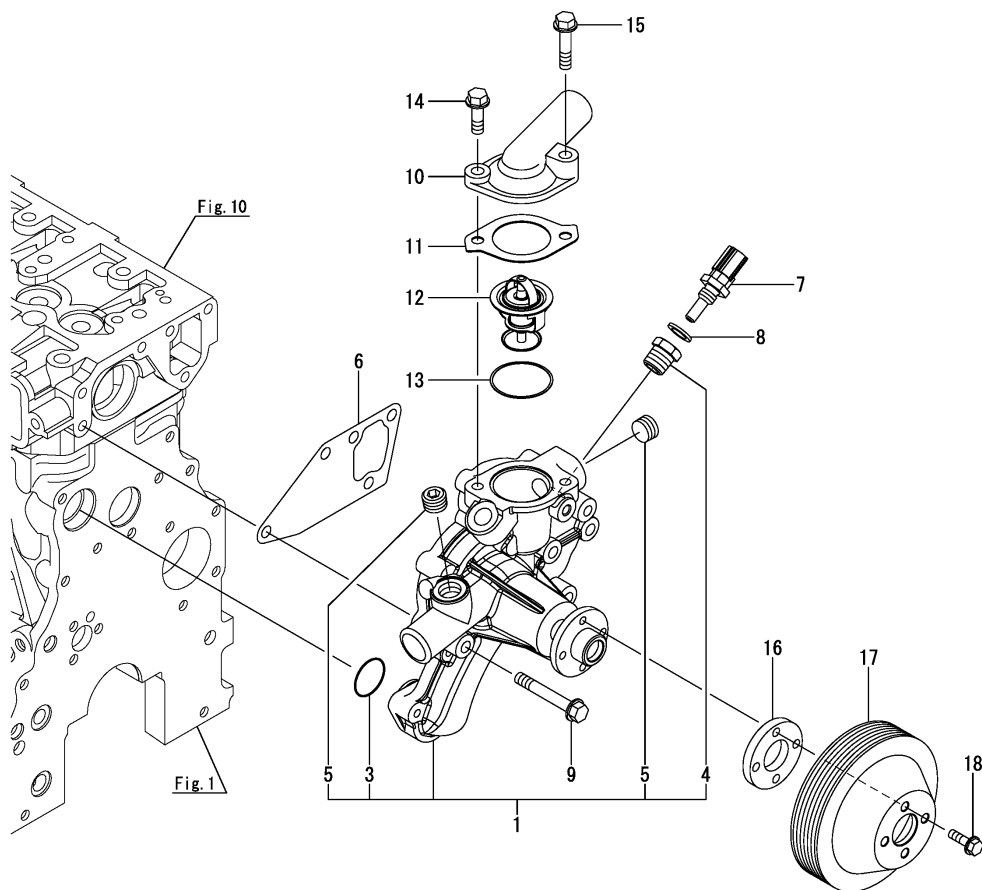


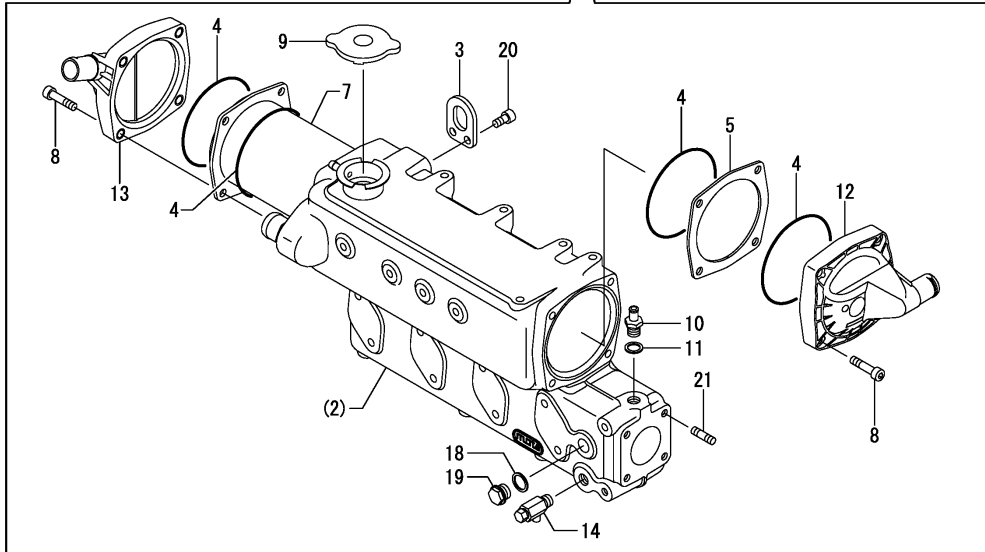
Fig. 26

Fig.29. COOLING FRESH WATER PUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-42000	PUMP ASSY, CW	1	1						
3	2	129054-42320	O-RING	1	1						
4	2	129263-49350	JOINT	1	1						
5	2	129916-49740	PLUG, R03	2	2						
6	1	129486-42050	GASKET, WATER PUMP	1	1						
7	1	129927-44900	SENSOR.THERMO CW	1	1						
8	1	22190-120002	WASHER, SEAL 12	1	1						
9	1	26106-080552	BOLT, M8X 55 PLATED	4	4						
10	1	129470-49540	COVER, THERMOSTAT	1	1						
11	1	129795-49551	GASKET	1	1						
12	1	129470-49801	THERMOSTAT, 76.5	1	1						
13	1	129150-49811	GASKET, THERMOSTAT	1	1						
14	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
15	1	26106-080352	BOLT, M8X 35 PLATED	1	1						
16	1	129677-42310	SPACER, PULLEY	1	1						
17	1	129271-42350	PULLEY,CW PUMP 6PK	1	1						
18	1	26106-060202	BOLT, M6X 20 PLATED	4	4						

Fig.30. COOLING FRESH WATER COOLER

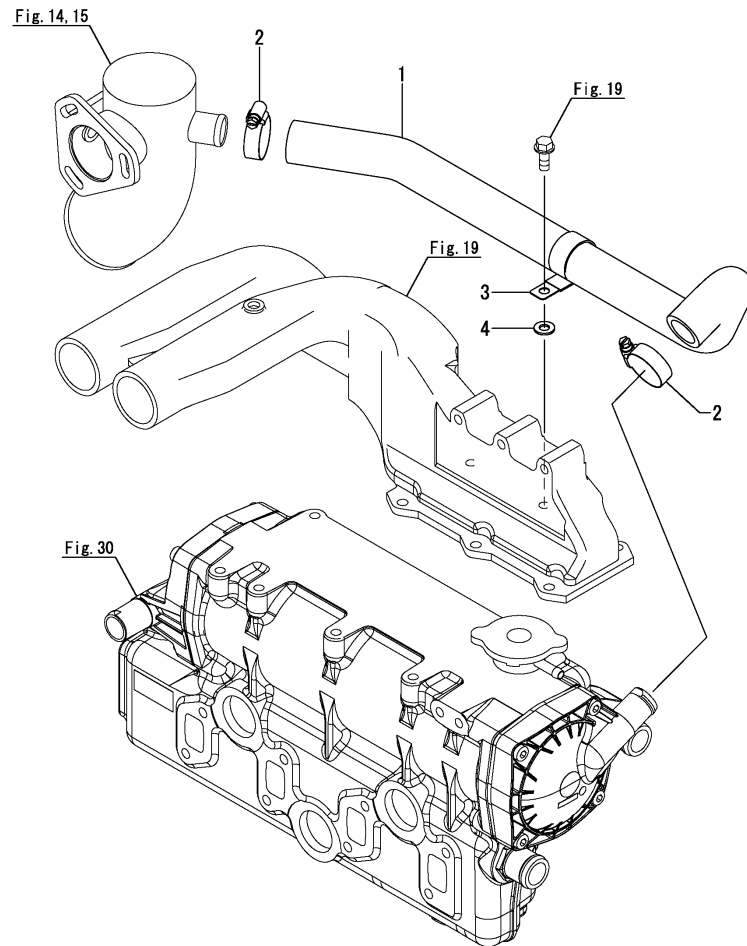


No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	129550-13110	GASKET	1	1					
2	1	129677-44000	HEAT-EXCHANGER ASSY	1	1					
3	2	129670-07230	LIFTER	1	1					
4	2	127677-33060	O-RING	4	4					
5	2	127677-33070	SPACER	1	1					
7	2	129677-44020	CORE ASSY, HEX	1	1					
8	2	129673-44090	BOLT, M8X40	8	8					
9	2	129673-44131	CAP	1	1					
10	2	129672-44160	PLUG, G1/4	1	1					
11	2	129672-44170	GASKET 13.5-19	1	1					
12	2	129677-44960	BONNET, HEX IN	1	1					
13	2	129677-44970	BONNET, HEX OUT	1	1					
14	2	119620-49290	COCK ASSY, 1/4	1	1					
18	2	23414-170000	GASKET, 17X1.0	1	1					
19	2	23893-030002	PLUG, G3/8	1	1					
20	2	26450-080162	BOLT, M8X 16	2	2					
21	2	129670-13600	STUD	4	4					
22	1	129677-44300	BOLT, M8X105 TS=980	6	6					
23	1	23061-070300	PIPE, 7X 300	1	1					
24	1	26366-080002	NUT, M8	2	2					
25	1	129693-44300	STUD	2	2					
26	1	128397-44500	TANK ASSY, SUB	1	1					
27	1	129270-44501	PIPE	1	1					
28	1	128397-44510	BRACKET	1	1					
29	1	129670-44570	LABEL, SUB-TANK	1	1					
30	1	23010-013000	CLAMP 13	2	2					

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129677-49070	HOSE, SW MIXING-IN	1	1						
2	1	129670-49500	CLIP, HOSE 38	2	2						
3	1	129928-79700	CLIP	1	1						
4	1	22137-080000	WASHER, 8	1	1						

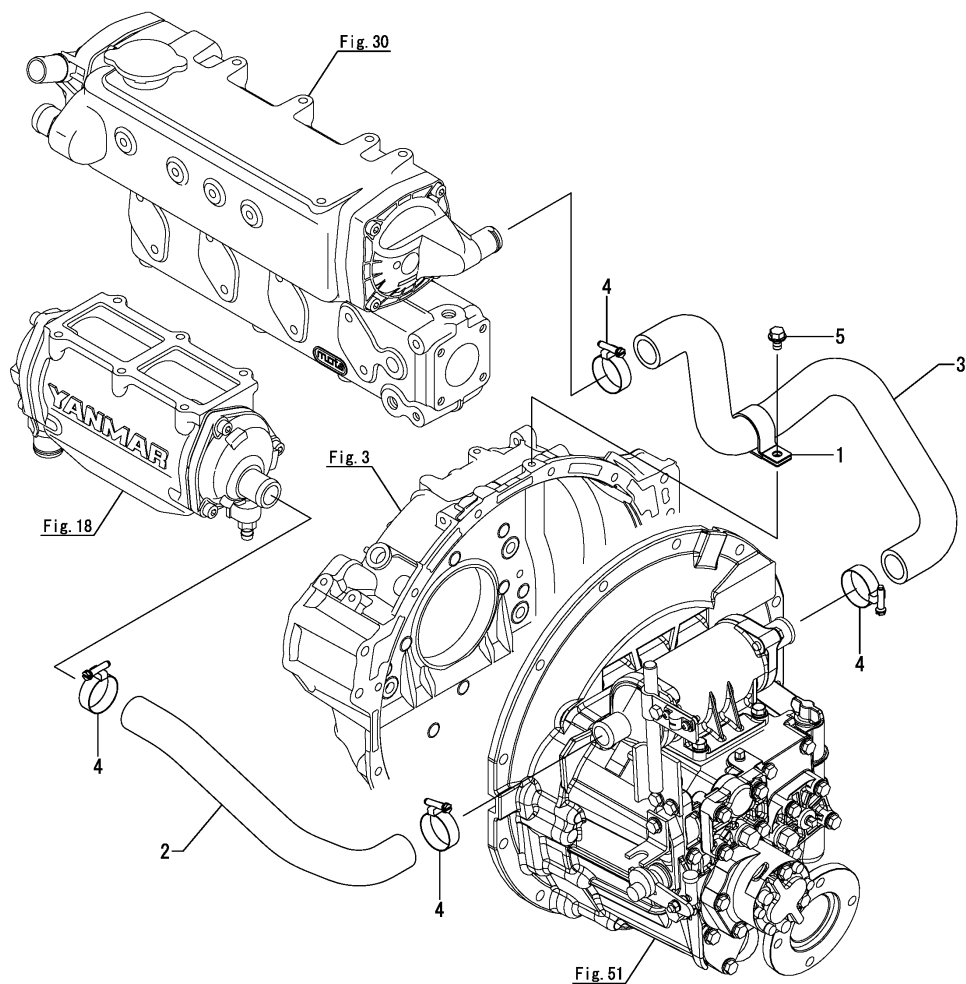


(A)=4JH80
(B)=4JH110
(C)=

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



Fig.33. COOLING SEA WATER PIPE(FOR KMH4A)



(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-49120	RETAINER	1	1						
2	1	129677-49120	HOSE, SW I/C-OUT KMH	1	1						
3	1	129677-49140	HOSE, SW HX-IN GEAR	1	1						
4	1	129670-49500	CLIP, HOSE 38	4	4						
5	1	26106-080122	BOLT, M8X 12 PLATED	1	1						

Fig.34. COOLING SEA WATER PIPE(FOR KM4A2)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-49070	PIPE, WATER	1	1						
2	1	129677-49110	HOSE, SW I/C-OUT	1	1						
3	1	129670-49410	JOINT	1	1						
4	1	129670-49500	CLIP, HOSE 38	4	4						
5	1	129671-49230	PIPE, WATER	1	1						
6	1	129671-49240	PIPE, WATER	1	1						
7	1	23000-022000	CLAMP, 22	4	4						

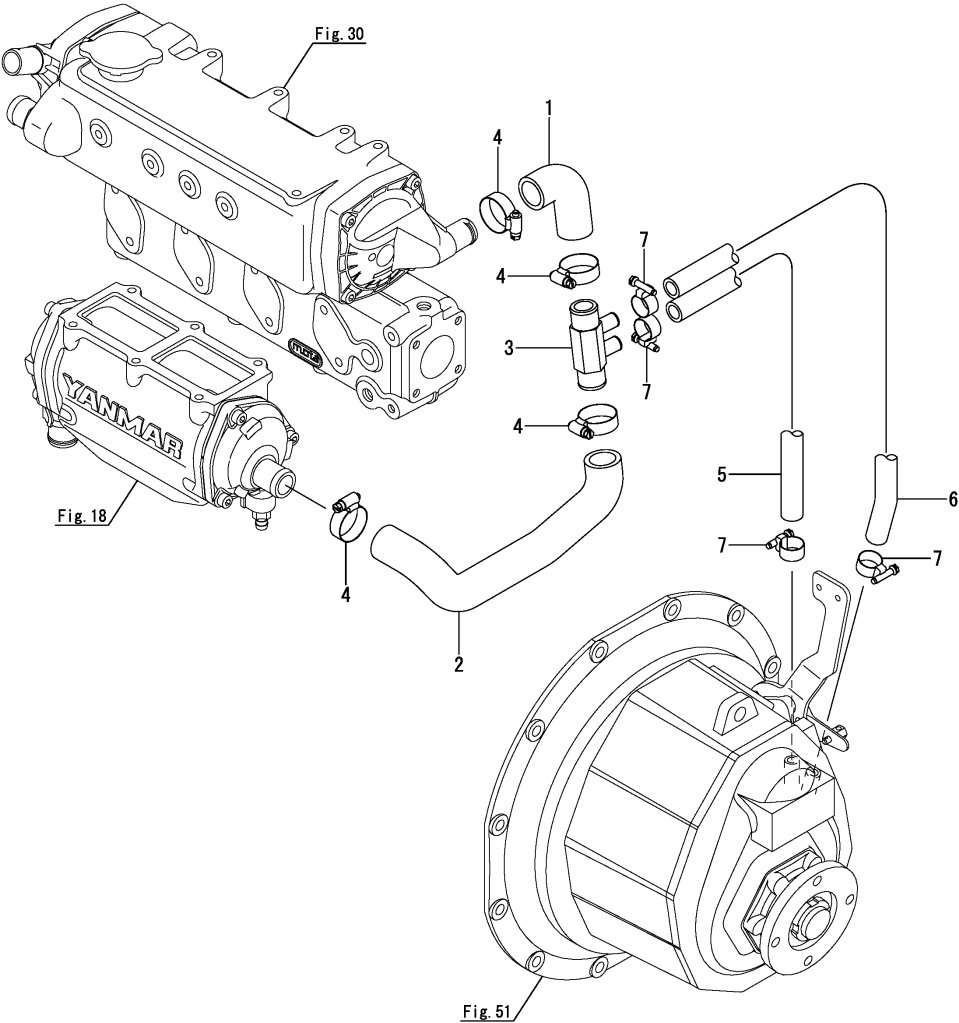


Fig.35. COOLING SEA WATER PIPE(FOR ZF25A)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-49120	RETAINER	1	1						
2	1	129677-49130	HOSE, SW IC-OUT ZF25	1	1						
3	1	129677-49140	HOSE, SW HX-IN GEAR	1	1						
4	1	129673-49410	JOINT	2	2						
5	1	129670-49500	CLIP, HOSE 38	6	6						
6	1	26106-080122	BOLT, M8X 12 PLATED	1	1						

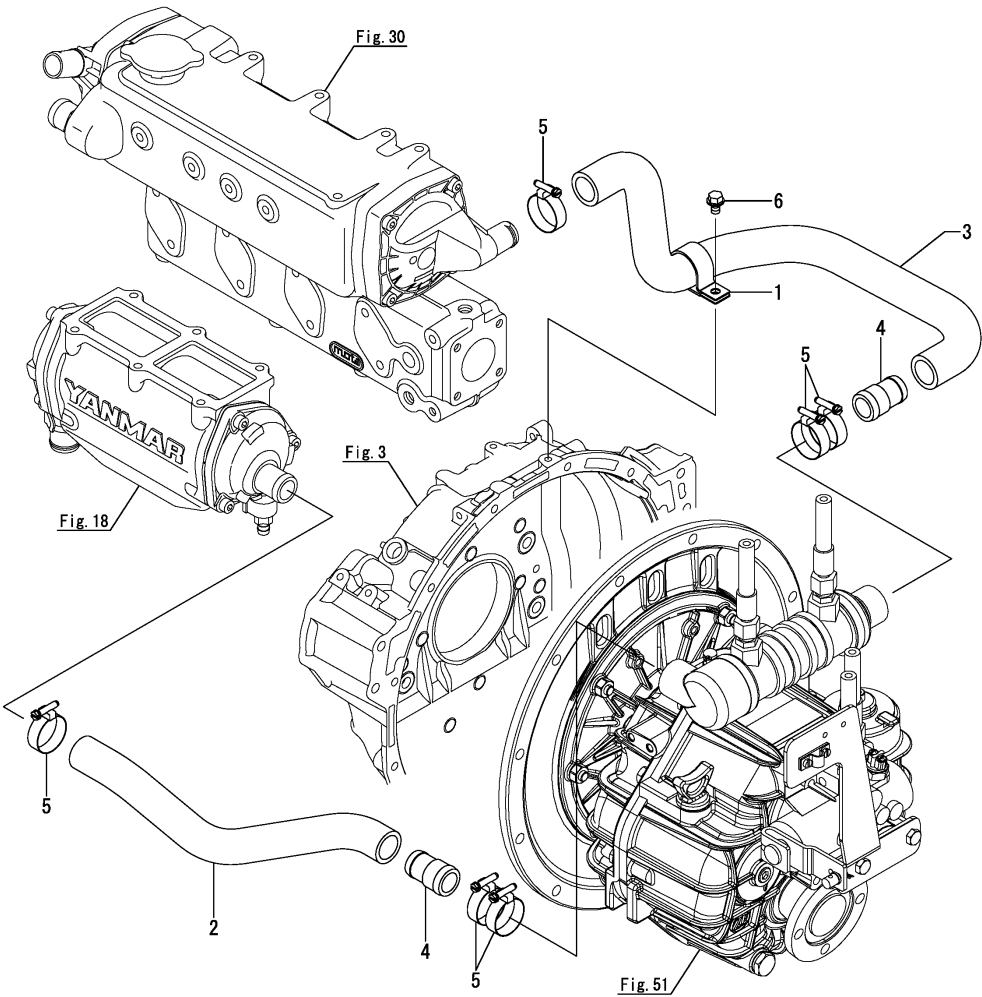
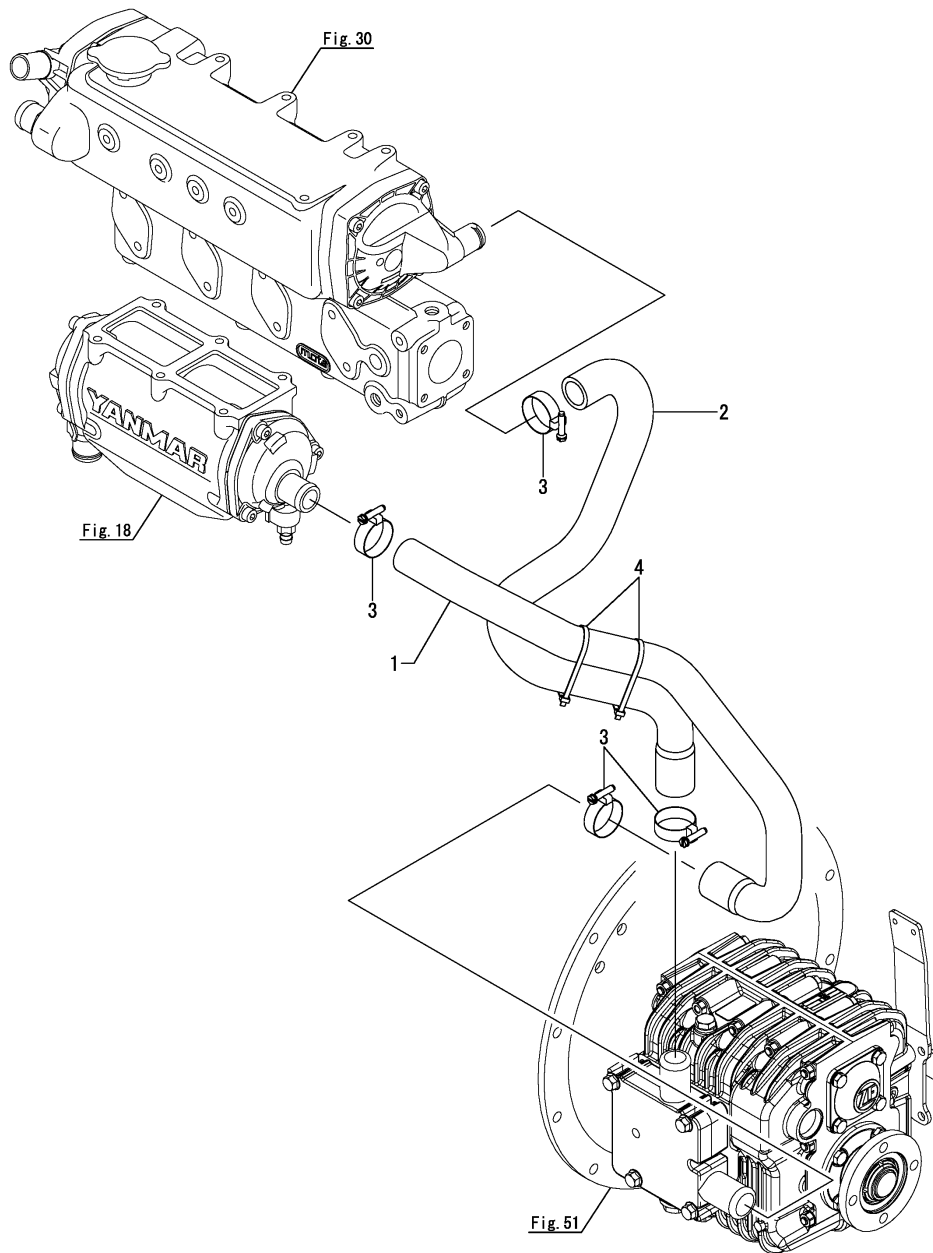
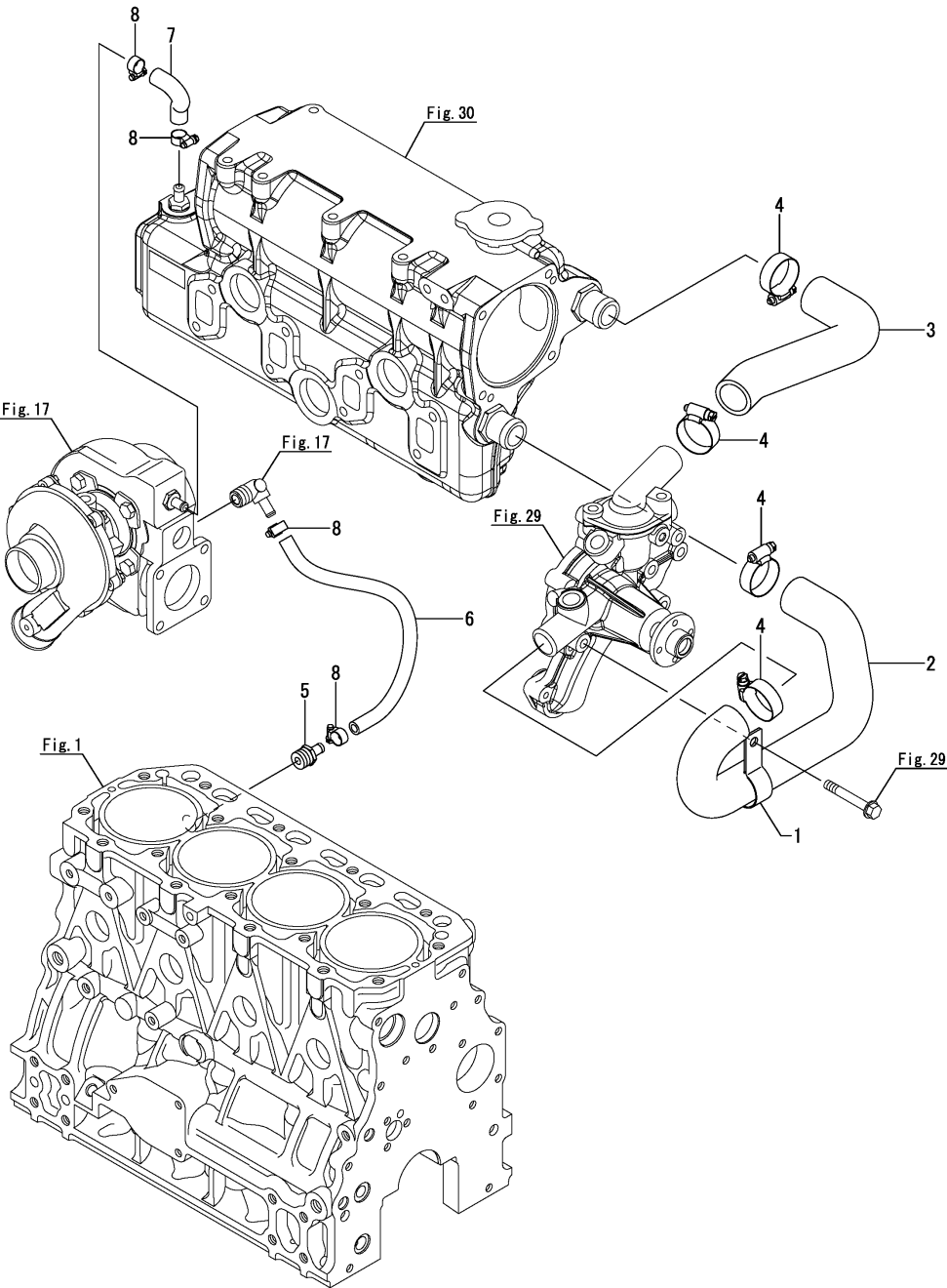


Fig.36. COOLING SEA WATER PIPE(FOR ZF30M)



No.	Lev.	Parts No.	Description	(A)=4JH80	(D)=	I R			
				(B)=4JH110	(E)=	(C)	(D)	(E)	(F)
1	1	129677-49150	HOSE, SW IC-OUT ZF30	1	1				
2	1	129677-49160	HOSE, SW HX-IN ZF30	1	1				
3	1	129670-49500	CLIP, HOSE 38	4	4				
4	1	29621-200001	BAND, TR200	2	2				

Fig.37. COOLING FRESH WATER PIPE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129271-49110	RETAINER, PIPE	1	1						
2	1	129671-49220	PIPE, WATER	1	1						
3	1	129672-49260	PIPE, COOLING WATER	1	1						
4	1	129670-49500	CLIP, HOSE 38	4	4						
5	1	129677-49300	JOINT, HOSE R3/8	1	1						
6	1	129677-49401	HOSE, CW T/C-IN	1	1						
7	1	129677-49420	HOSE, CW T/C-OUT	1	1						
8	1	23000-013000	CLAMP, 13	4	4						

(A)=4JH80
(B)=4JH110
(C)=

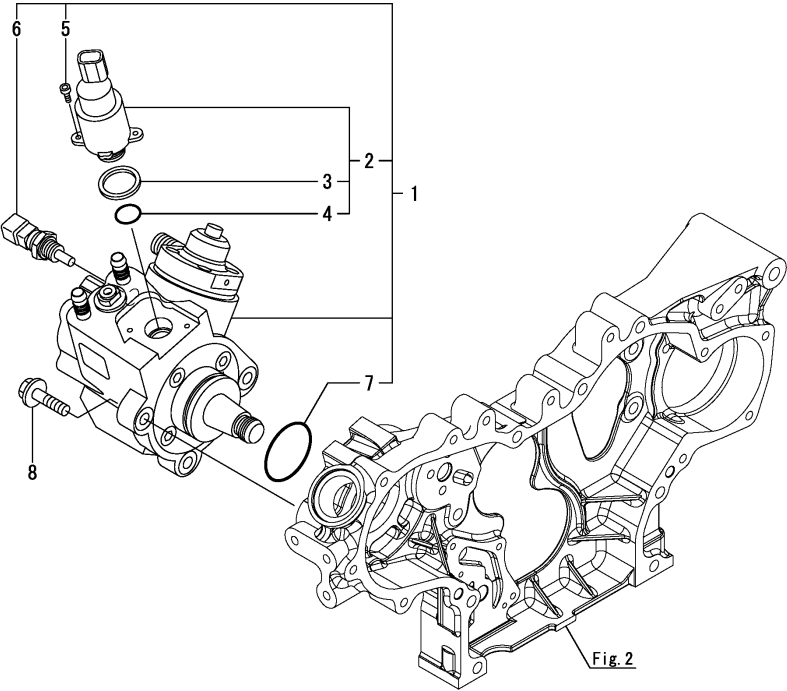
(D)=
(E)=
(F)=

[illegible]

Fig.39. FUEL SUPPLY PUMP

(A)=4JH80
(B)=4JH110
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129A00-51000	PUMP ASSY, FUEL	1	1						
2	2	129A00-51100	VALVE ASSY, MPROP	1	1						
3	3	129A00-51110	RING, SEALING	1	1						
4	3	129A00-51120	O-RING, MPROP	1	1						
5	2	129A00-51130	BOLT, MPROP	2	2						
6	2	129A00-51200	SENSOR, TEMPERATURE	1	1						
7	2	129A00-51900	O-RING, FUEL PUMP	1	1						
8	1	26106-080302	BOLT, M8X 30 PLATED	3	3						

Fig.40. FUEL INJECTION VALVE & FUEL INJECTION PIPE

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-53100	INJECTOR, CR	4	4						
2	2	129A00-53200	RING, RETAINING	4	4						
3	1	129C00-57000	RAIL ASSY	1	1						
4	2	129A00-57100	SENSOR, RAILPRESSURE	1	1						
5	2	129A00-57200	VALVE ASSY, PLV4	1	1						
6	3	129A00-57210	O-RING, PLV4	1	1						
7	1	129677-57201	BRACKET,COMMON RAIL	1	1						
8	1	26106-080202	BOLT, M8X 20 PLATED	4	4						
9	1	122780-59100	RETAINER	4	4						
11	1	129677-59700	PIPE ASSY, RAIL IN	1	1						
13	1	129677-59810	PIPE ASSY, INJ. NO.1	1	1						
14	1	129677-59820	PIPE ASSY, INJ. NO.2	1	1						
15	1	129677-59830	PIPE ASSY, INJ. NO.3	1	1						
16	1	129677-59840	PIPE ASSY, INJ. NO.4	1	1						
17	1	26366-060002	NUT, M6	4	4						

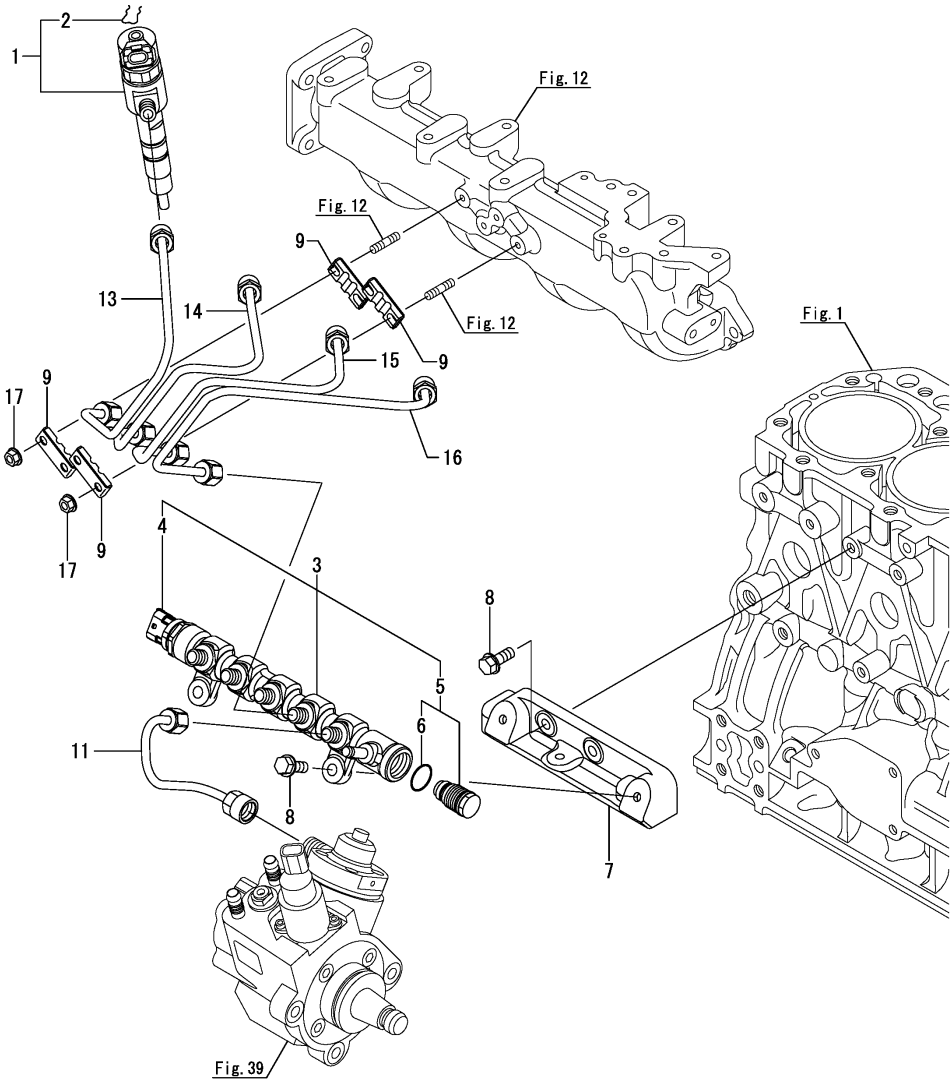
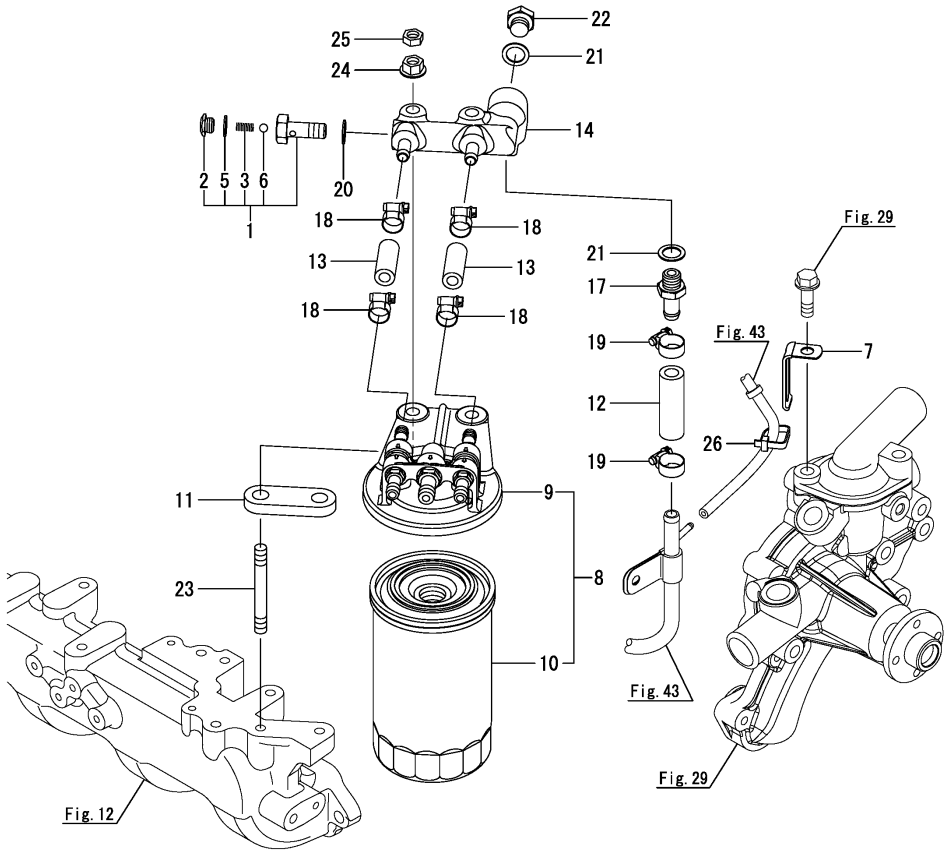


Fig.41. FUEL FILTER

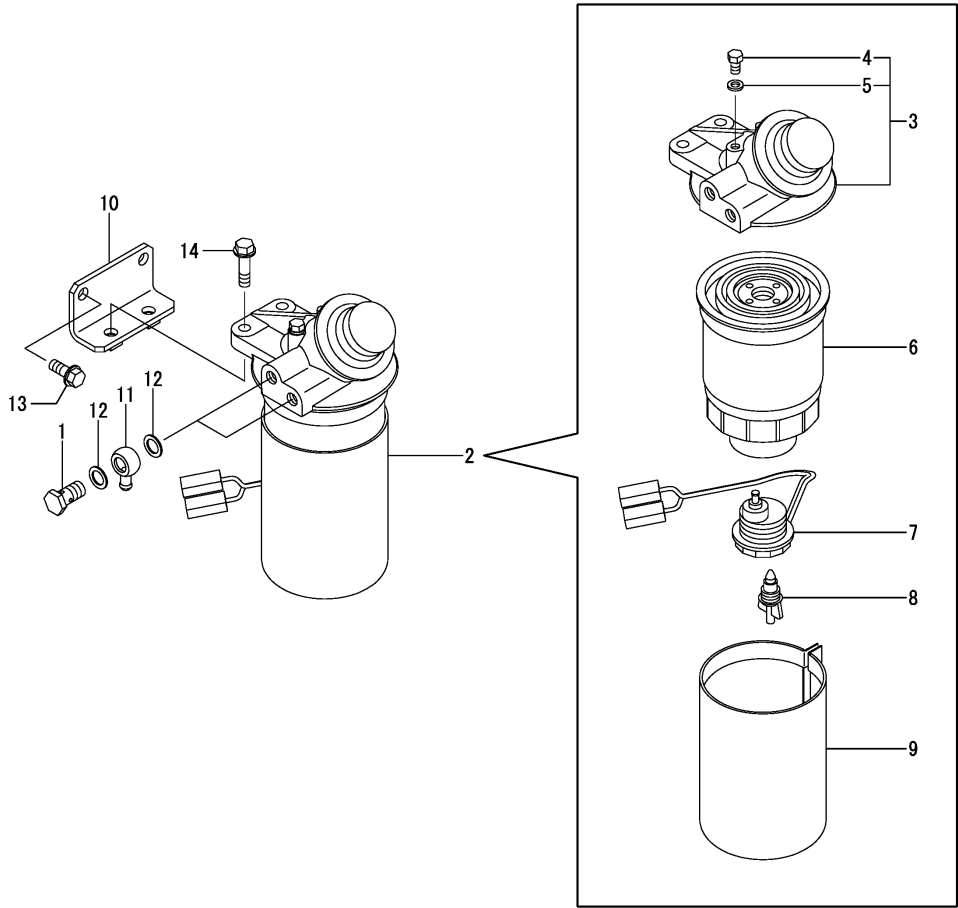


(A)=4JH80
(B)=4JH110
(C)=

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

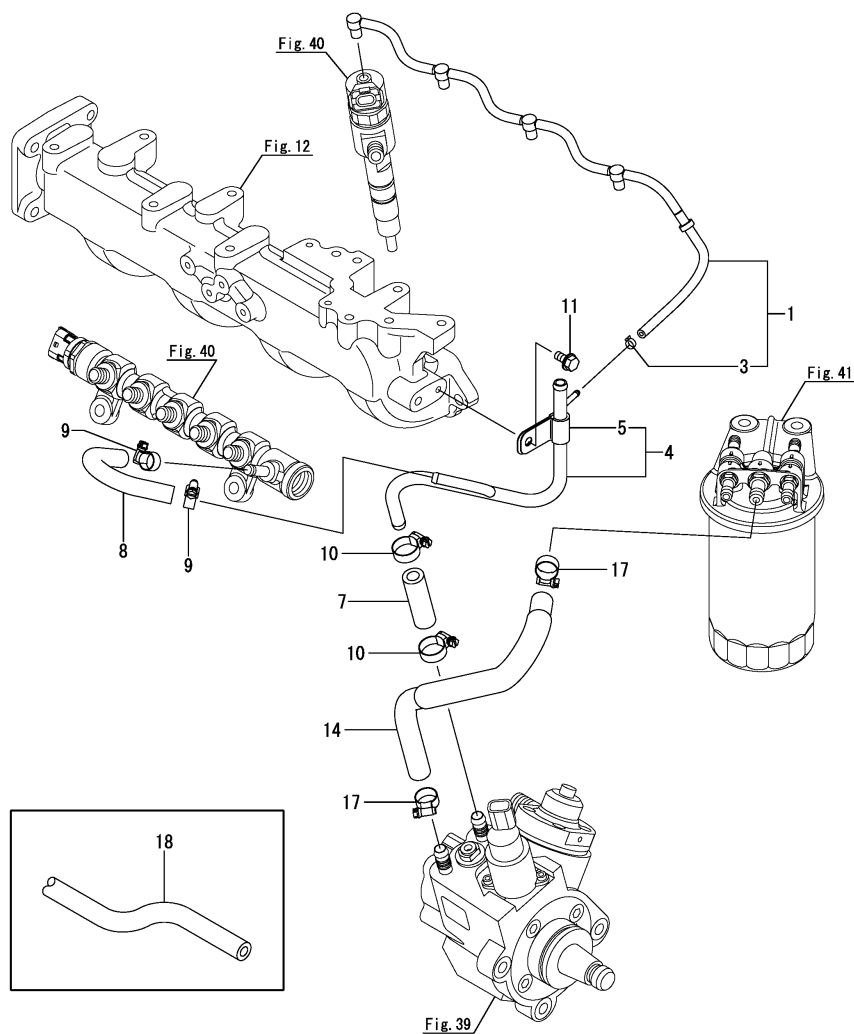
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119187-39700	VALVE ASSY, CHECK	1	1						
2	2	127610-39350	RETAINER, SPRING	1	1						
3	2	127687-39360	SPRING	1	1						
5	2	23414-100014	GASKET, 10X1.0	1	1						
6	2	24190-070001	BALL, STEEL 7/32	1	1						
7	1	194440-51620	CLAMP	1	1						
8	1	129677-55600	FILTER ASSY, FO	1	1						
9	2	129677-55610	BRACKET ASSY,FO FILT	1	1						
10	2	129A00-55800	FILTER, FUEL OIL	1	1						
11	1	129670-55700	RUBBER	1	1						
12	1	129677-59220	HOSE, FO RETURN	1	1						
13	1	129677-59240	HOSE, FO RETURN	2	2						
14	1	129677-59300	HOUSING ASSY, FO VAL	1	1						
17	1	129677-59350	JOINT, HOSE 10-M12	1	1						
18	1	23000-013000	CLAMP, 13	4	4						
19	1	23000-016000	CLAMP, 16	2	2						
20	1	23414-100000	GASKET, 10X1.0	1	1						
21	1	23414-120000	GASKET, 12X1.0	2	2						
22	1	23887-120002	PLUG, 12	1	1						
23	1	26216-080602	STUD, M8X 60	2	2						
24	1	26366-080002	NUT, M8	2	2						
25	1	26756-080002	NUT, LOCK M8	2	2						
26	1	29621-200001	BAND, TR200	1	1						

Fig.42. FUEL PRE-FILTER(HULL SIDE)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194256-04820	BOLT, JOINT M6	2	2						
2	1	119172-55800	FILTER ASSY, FUEL	1	1						
3	2	121857-55630	BODY ASSY, STRAINER	1	1						
4	3	121857-55750	PLUG	1	1						
5	3	121857-55760	WASHER	1	1						
6	2	121857-55710	FILTER, FUEL	1	1						
7	2	121857-55730	SENSOR	1	1						
8	2	121857-55740	PLUG	1	1						
9	2	119172-55810	CASE KIT, FILTER	1	1						
10	1	129677-55850	BRACKET, FUEL FILTER	1	1						
11	1	101304-59020	JOINT, PIPE 12	2	2						
12	1	22190-120002	WASHER, SEAL 12	4	4						
13	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
14	1	26106-080302	BOLT, M8X 30 PLATED	2	2						

Fig.43. FUEL PIPE



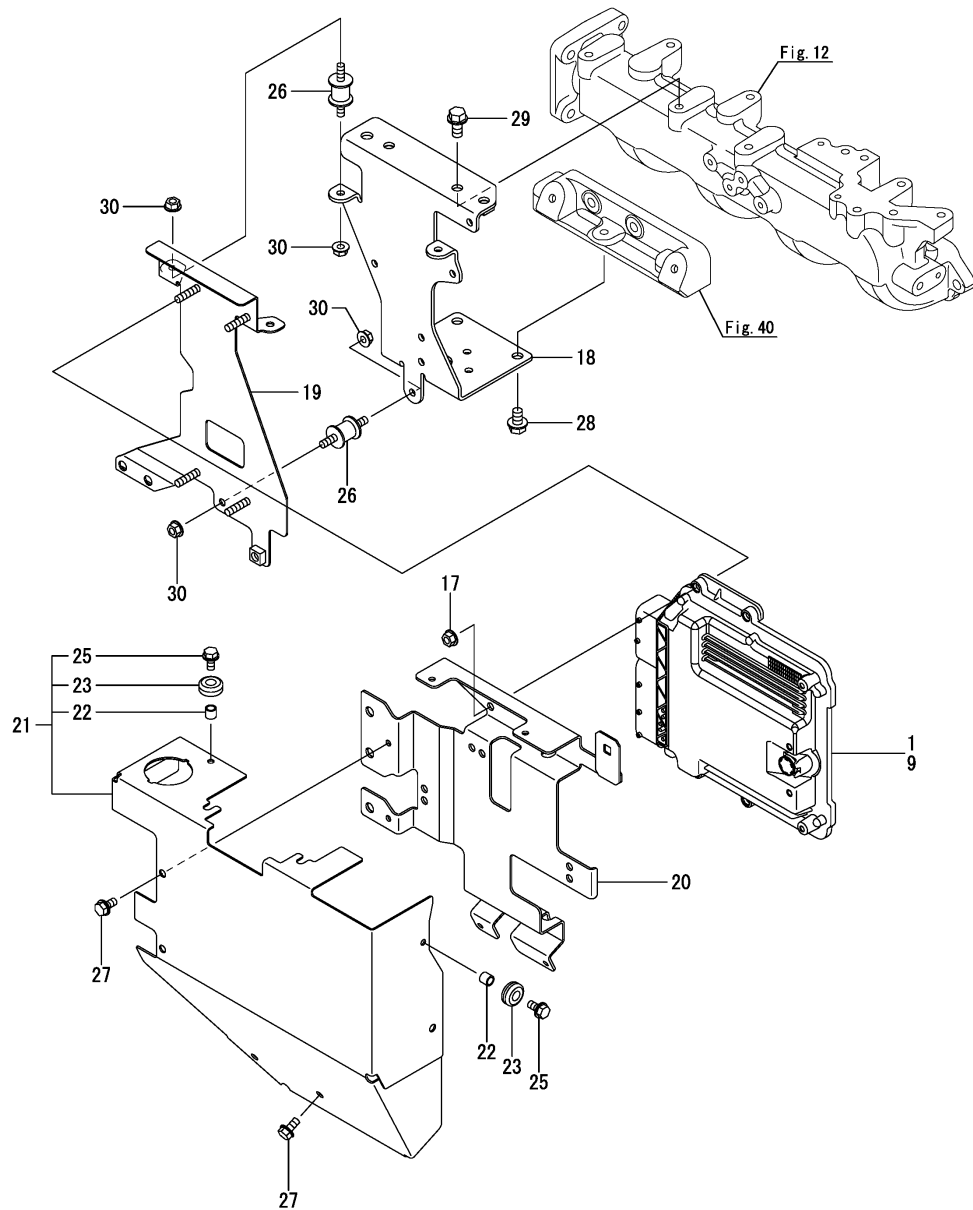
				(A)=4JH80 (B)=4JH110 (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-59500	PIPE ASSY, FO RE-INJ	1	1						
3	2	23080-007000	CLAMP, 7	1	1						
4	1	129677-59090	PIPE ASSY, FO RETURN	1	1						
5	2	119802-49730	RETAINER, PIPE	1	1						
7	1	129677-59220	HOSE, FO RETURN	1	1						
8	1	129677-59230	HOSE, FO RETURN	1	1						
9	1	23000-013000	CLAMP, 13	2	2						
10	1	23000-019000	CLAMP, 19	2	2						
11	1	26106-060122	BOLT, M6X 12 PLATED	1	1						
14	1	129677-59010	HOSE ASSY, FO HPP-IN	1	1						
17	1	23000-016000	CLAMP, 16	2	2						
18	1	129677-59400	HOSE, FO L=6000	1	1						1

Remarks
(1)For hull side piping (Optional parts.)

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

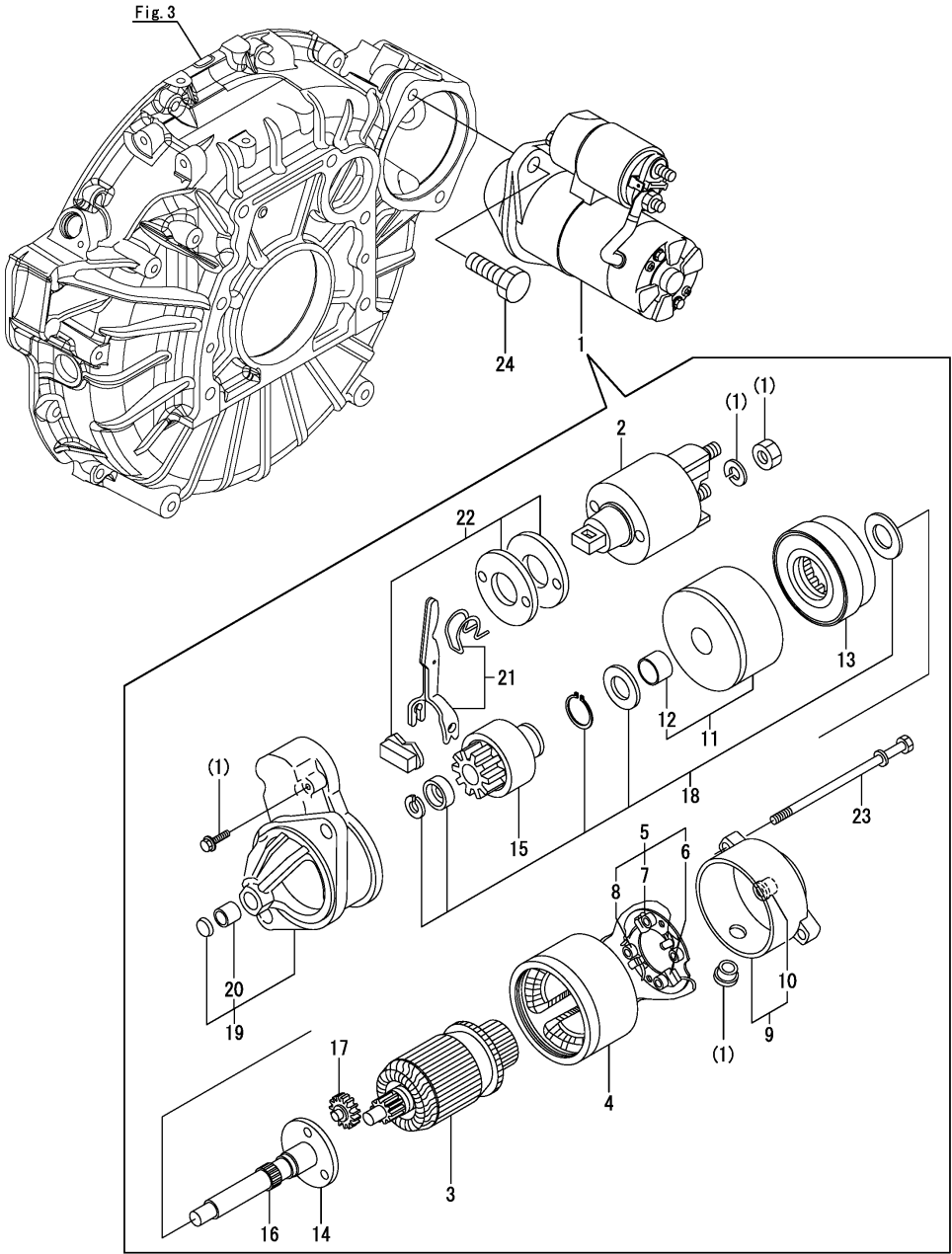
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Fig.44. ELECTRIC CONTROL UNIT(ECU) & BRACKET



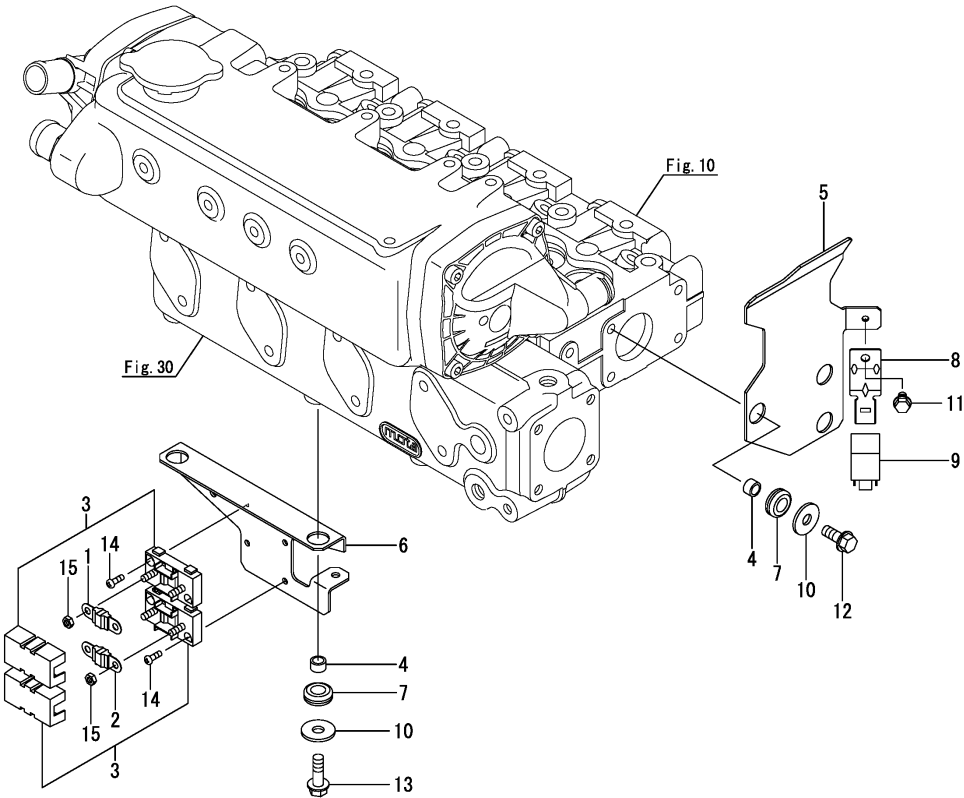
				(A)=4JH80 (B)=4JH110 (C)=			(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I	R
1	1	129676-75010	ECU ASSY,4JH80	1							
9	1	129677-75010	ECU ASSY,4JH110		1						
17	1	26366-060002	NUT, M6	4	4						
18	1	129677-77720	BRACKET, ECU BASE	1	1						
19	1	129677-77740	BRACKET, ECU HOLDER	1	1						
20	1	129677-77770	PLATE,ECU	1	1						
21	1	129677-77790	COVER ASSY, ECU	1	1						
22	2	128990-77441	COLLAR, M6	2	2						
23	2	128990-77600	GROMMET, M6	2	2						
25	2	26106-060122	BOLT, M6X 12 PLATED	2	2						
26	1	119175-91050	ABSORBER	3	3						
27	1	26106-060122	BOLT, M6X 12 PLATED	4	4						
28	1	26106-080122	BOLT, M8X 12 PLATED	2	2						
29	1	26106-080162	BOLT, M8X 16 PLATED	1	1						
30	1	26366-060002	NUT, M6	6	6						

Fig.45. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129608-77010	STARTER, S114-817A	1	1						
2	2	129698-77020	SWITCH ASSY	1	1						
3	2	129698-77101	ARMATURE ASSY	1	1						
4	2	129608-77110	YOKE ASSY	1	1						
5	2	129698-77120	HOLDER ASSY, BRUSH	1	1						
6	3	129698-77130	BRUSH	2	2						
7	3	129698-77140	BRUSH SET	1	1						
8	3	129698-77150	SPRING, BRUSH	4	4						
9	2	129698-77161	COVER ASSY	1	1						
10	3	129698-77170	BEARING	1	1						
11	2	129698-77180	BRACKET	1	1						
12	3	129698-77190	BRACKET	1	1						
13	2	129698-77200	GEAR, INTERNAL	1	1						
14	2	129698-77210	BRACKET	1	1						
15	2	129698-77220	PINION ASSY	1	1						
16	2	129698-77230	SHAFT	1	1						
17	2	129698-77240	GEAR	3	3						
18	2	129698-77250	WASHER SET	1	1						
19	2	129698-77260	CASE ASSY	1	1						
20	3	X2114535200	METAL, STARTER	1	1						
21	2	129698-77270	LEVER SET, SHIFT	1	1						
22	2	129698-77280	COVER KIT	1	1						
23	2	124195-77770	BOLT, THROUGH	2	2						
24	1	26116-120302	BOLT, M12X 30 PLATED	2	2						

Fig.46. RELAY

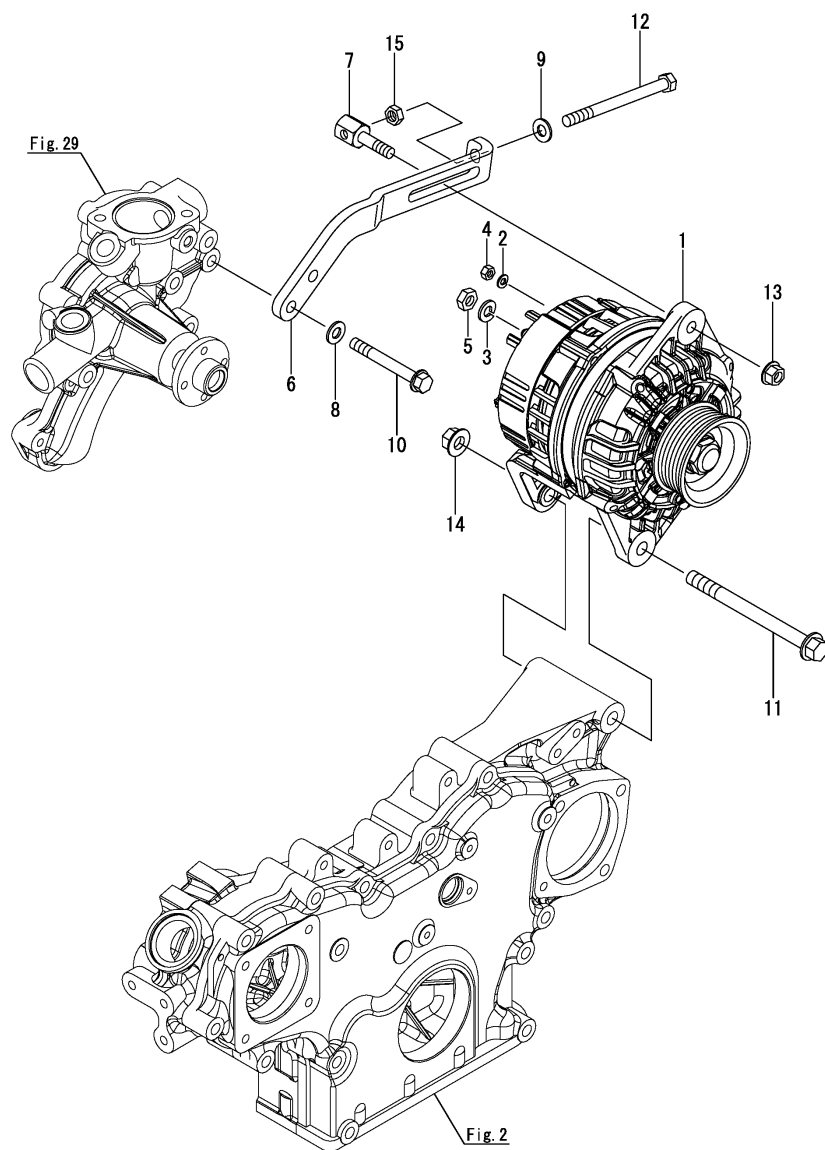


(A)=4JH80
(B)=4JH110
(C)=

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

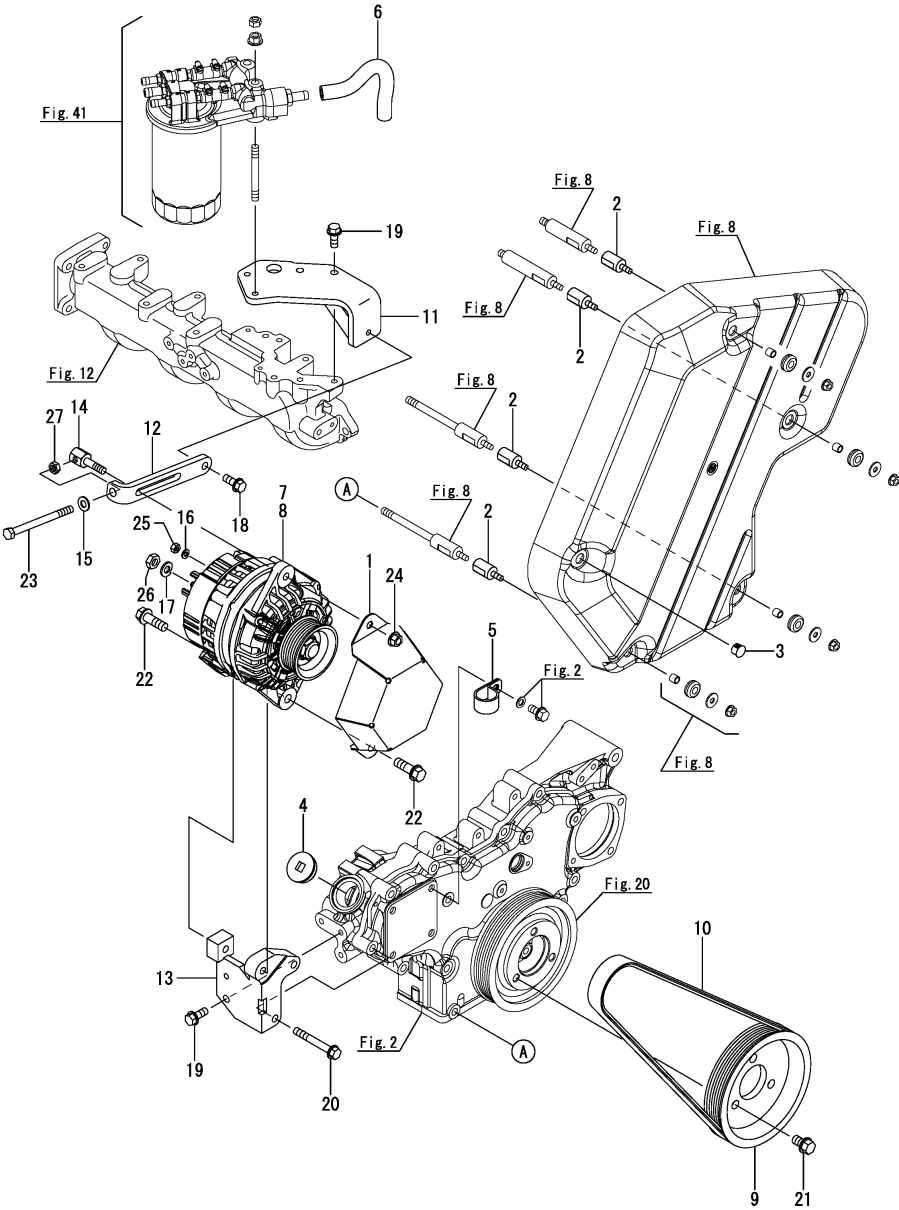
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	127677-77060	FUSE, 32V-200A	1	1						
2	1	119578-77080	FUSE, 32V-50A	1	1						
3	1	119578-77200	HOLDER, FUSE	2	2						
4	1	128990-77430	COLLAR	5	5						
5	1	129677-77570	BRACKET,RELAY	1	1						
6	1	129677-77581	BRACKET,FUSE	1	1						
7	1	128990-77610	GROMMET	5	5						
8	1	129927-77910	BRACKET, CONNECTOR	1	1						
9	1	129927-77920	RELAY	1	1						
10	1	22157-080000	WASHER, 8	5	5						
11	1	26106-060122	BOLT, M6X 12 PLATED	1	1						
12	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
13	1	26106-080252	BOLT, M8X 25 PLATED	2	2						
14	1	26557-040122	SCREW, M4X12	4	4						
15	1	26756-050002	NUT, LOCK M5	4	4						

Fig.47. GENERATOR



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	128990-77250	ALTERNATOR,12V-120A	1	1				
2	1	22217-050000	WASHER, SPRING 5	2	2				
3	1	22217-080000	WASHER, SPRING 8	1	1				
4	1	26716-050002	NUT, M5	2	2				
5	1	26756-080002	NUT, LOCK M8	1	1				
6	1	129677-77440	ADJUSTER, BELT	1	1				
7	1	129271-77641	BOLT,ADJUSTER	1	1				
8	1	22137-080000	WASHER, 8	1	1				
9	1	22137-080000	WASHER, 8	1	1				
10	1	26106-080652	BOLT, M8X 65 PLATED	1	1				
11	1	26106-101202	BOLT, M10X120 PLATED	1	1				
12	1	26116-081004	BOLT, M8X100 PLATED	1	1				
13	1	26366-080002	NUT, M8	1	1				
14	1	26366-100002	NUT, M10	1	1				
15	1	26756-080002	NUT, LOCK M8	1	1				

Fig.48. 2ND GENERATOR KIT(OPTIONAL)



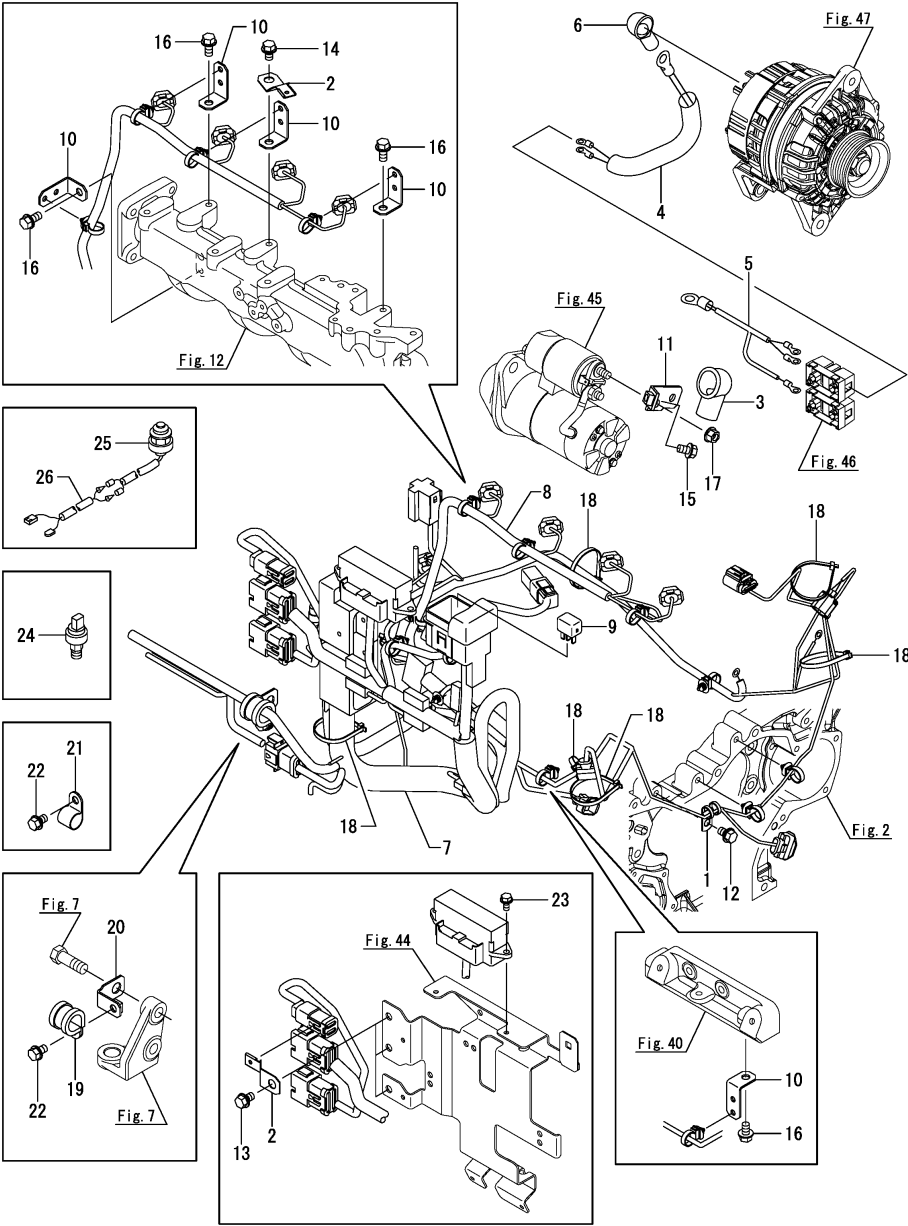
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-09130	COVER, BELT 2ND ALT	1	1						
2	1	129677-09510	BOLT, SPACER L=25	4	4						
3	1	129677-09600	PLUG, D12.7 HOLE	1	1						
4	1	119807-11770	PLUG	1	1						
5	1	121575-49310	RETAINER, PIPE	1	1						
6	1	129677-59270	HOSE, FO RET 2ND-ALT	1	1						
7	1	128990-77250	ALTERNATOR,12V-120A	1	1						1
8	1	129677-77250	ALTERNATOR, 24V-60A	1	1						2
9	1	129271-77251	PULLEY, CRANK 6PK	1	1						
10	1	128790-77580	BELT,ALTERNATOR 6PK	1	1						
11	1	129677-77610	BRACKET, FO FILTER	1	1						
12	1	129677-77620	ADJUSTER, BELT	1	1						
13	1	129677-77630	BRACKET, 2ND ALT.	1	1						
14	1	129271-77641	BOLT,ADJUSTER	1	1						
15	1	22137-080000	WASHER, 8	1	1						
16	1	22217-050000	WASHER, SPRING 5	2	2						
17	1	22217-080000	WASHER, SPRING 8	1	1						
18	1	26106-080202	BOLT, M8X 20 PLATED	1	1						
19	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
20	1	26106-080602	BOLT, M8X 60 PLATED	2	2						
21	1	26106-100202	BOLT, M10X 20 PLATED	3	3						
22	1	26106-100302	BOLT, M10X 30 PLATED	2	2						
23	1	26116-081004	BOLT, M8X100 PLATED	1	1						
24	1	26366-080002	NUT, M8	1	1						
25	1	26716-050002	NUT, M5	2	2						
26	1	26756-080002	NUT, LOCK M8	1	1						
27	1	26756-080002	NUT, LOCK M8	1	1						

Remarks
(1)12V specification.
(2)24V specification.

Fig.49. WIRE HARNESS



(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194440-51620	CLAMP	1	1						
2	1	119578-75610	CLIP, CONNECTOR	4	4						
3	1	119773-77030	COVER	1	1						
4	1	129677-77030	HARNESS, ALTERNATOR	1	1						
5	1	129677-77040	HARNESS, ALTERNATOR	1	1						
6	1	129677-77060	COVER, TERMINAL	1	1						
7	1	129677-77110	HARNESS, ECU K CONN	1	1						
8	1	129677-77130	HARNESS, ECU A CONN	1	1						
9	1	127677-77330	RELAY, MAIN	2	2						
10	1	129677-77550	BRACKET,HARNESS	5	5						
11	1	129677-77590	TERMINAL, BATTERY	1	1						
12	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
13	1	26106-080122	BOLT, M8X 12 PLATED	3	3						
14	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
15	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
16	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
17	1	26366-080002	NUT, M8	1	1						
18	1	29621-200001	BAND, TR200	13	13						
19	1	129672-49050	RETAINER,CSW	1	1						
20	1	129677-77710	BRACKET,HARNESS	1	1						
21	1	23297-180081	CLAMP, A18X 8	1	1						
22	1	26106-080122	BOLT, M8X 12 PLATED	2	2						
23	1	26106-060122	BOLT, M6X 12 PLATED	2	2						
24	1	119578-91300	SENSOR, PRESSURE	1	1						1
25	1	120270-77102	SWITCH, SAFETY	1	1						2
26	1	129570-77960	HARNESS, WIRE	1	1						2

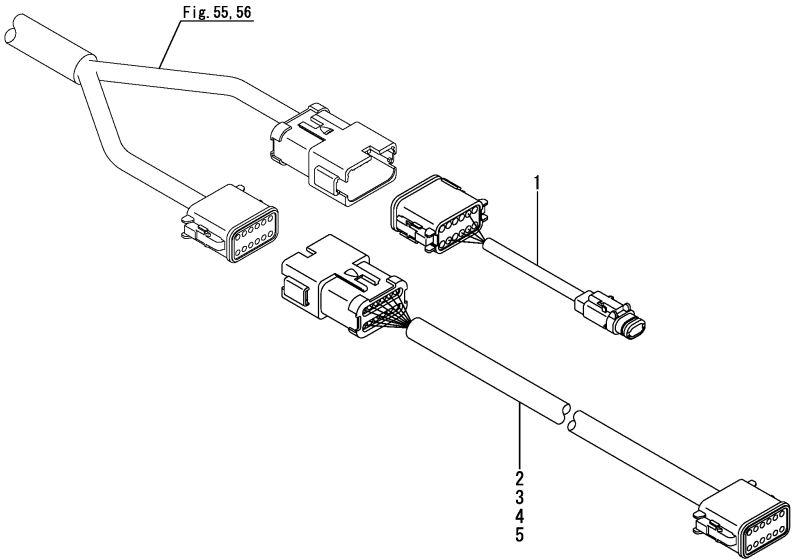
Remarks
(1)For C35 panel (Optional parts.)
(2)Newtral safety switch (Optional parts.)

Fig.50. TERMINAL ADAPTER & EXTENSION HARNESS

(A)=4JH80
(B)=4JH110
(C)=

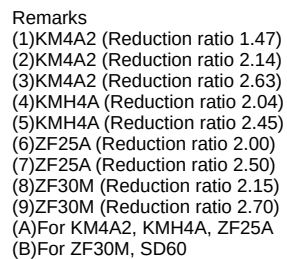
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-29000	ADAPTER, TERMINAL	1	1						
2	1	164000-22210	HARNESS, WIRE 3M	1	1						1
3	1	164000-22220	HARNESS, WIRE 5M	1	1						1
4	1	164000-22230	HARNESS, WIRE 10M	1	1						1
5	1	164000-22240	HARNESS, WIRE 20M	1	1						1



Remarks
(1)Optional parts.

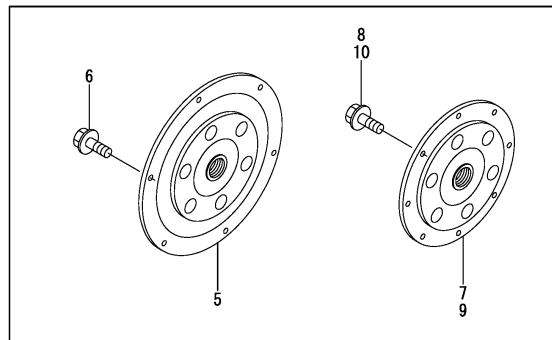
Fig.51. CLUTCH(OPTIONAL)



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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-81000	CLUTCH ASSY, 1.47	1	1						1
2	1	129672-81010	CLUTCH ASSY, 2.14	1	1						2
3	1	129672-81020	CLUTCH ASSY, I=2.63	1	1						3
4	1	129673-81010	CLUTCH ASSY, 2.04	1	1						4
5	1	129673-81020	CLUTCH ASSY, I=2.45	1	1						5
6	1	129673-81100	GEAR, ZF25A	1	1						6
7	1	129673-81110	GEAR, ZF25A	1	1						7
8	1	129673-81200	GEAR, ZF30M I=2.15	1	1						8
9	1	129673-81210	GEAR, ZF30M I=2.7	1	1						9
10	1	26106-100302	BOLT, M10X 30 PLATED	8	8						A
11	1	26226-100252	STUD, M10X 25	2	2						A
12	1	26706-100002	NUT, M10	2	2						A
13	1	26106-100282	BOLT, M10X 28 PLATED	10	10						B
14	1	26226-100202	STUD, M10X 20	2	2						B
15	1	26366-100002	NUT, M10	2	2						B

Fig.52. DAMPER DISK(OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177090-03500	DISK, DAMPER D190	1	1						1
2	1	26106-080162	BOLT, M8X 16 PLATED	6	6						1
3	1	177090-03500	DISK, DAMPER D190	1							2
4	1	26106-080162	BOLT, M8X 16 PLATED	6							2
5	1	129673-81760	DISK, DAMPER	1	1						3
6	1	26106-080202	BOLT, M8X 20 PLATED	6	6						3
7	1	129673-81150	DISK, DAMPER	1	1						4
8	1	26106-080202	BOLT, M8X 20 PLATED	6	6						4
9	1	129673-81250	DISK, DAMPER	1	1						5
10	1	26106-080252	BOLT, M8X 25 PLATED	6	6						5
11	1	129670-81850	FAN, FLYWHEEL	1	1						1
12	1	26013-080142	BOLT, M8X 14	6	6						1

- (1) For KM4A2
- (2) For SD60
- (3) For KMH4A
- (4) For ZF25A
- (5) For ZF30M

Fig.53. ELECTRIC PARTS(FOR SD60)

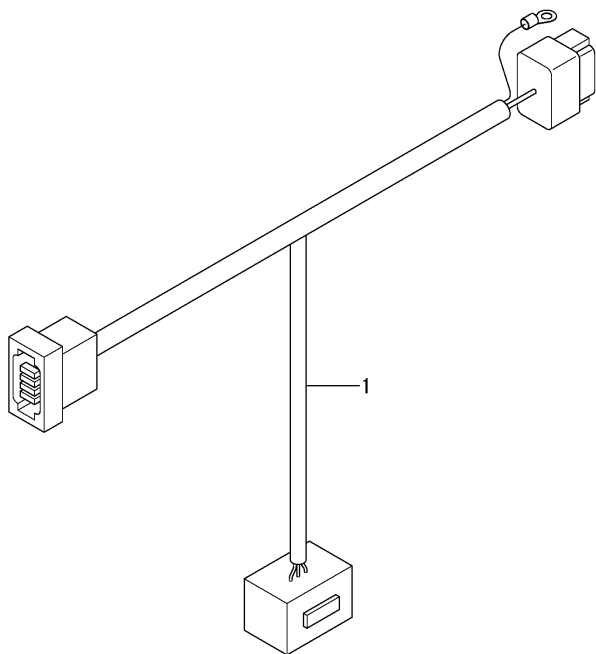
[illegible]

Fig.54. EMERGENCY STOP SWITCH

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-91101	SWITCH,E-STOP	1	1						

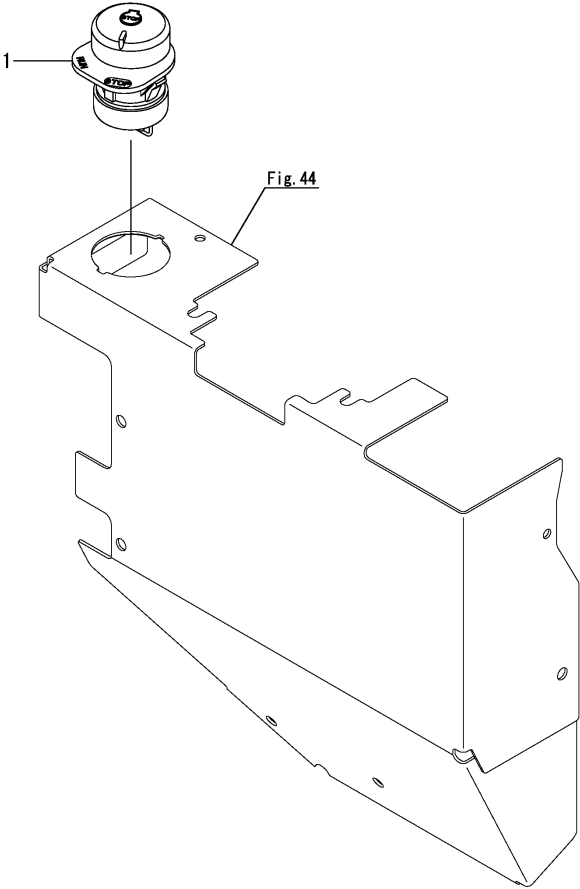


Fig.55. INSTRUMENT PANEL(B25)(MEDALLION)(OPTIONAL)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164100-30110	PANEL ASSY, B25	1	1						
2	2	164100-21110	HARNESS, PANEL EL	1	1						
3	2	164100-31110	SWITCH, PANEL EL	1	1						
4	2	164100-31150	GASKET, SWITCH	1	1						
5	2	164100-31900	BEZEL, SWITCH BK	1	1						
6	2	164100-36100	BUZZER, PANEL	1	1						
7	2	164100-39100	FRAME, PANEL B	1	1						
8	2	164100-39120	BRACKET, SWITCH	2	2						
9	2	164100-39131	BRACKET, GAUGE 5 MD	1	1						
10	2	164100-39150	CAP, GAUGE TERMINAL	1	1						
11	2	164100-39180	WASHER, LOCK	4	4						
12	2	164100-39190	NUT, M3.5	4	4						
13	2	164100-53110	GAUGE,TACH LCD 5 EL	1	1						
14	2	164100-53150	GASKET, GAUGE 5	1	1						
15	2	164100-53900	BEZEL, GAUGE 5 BK	1	1						

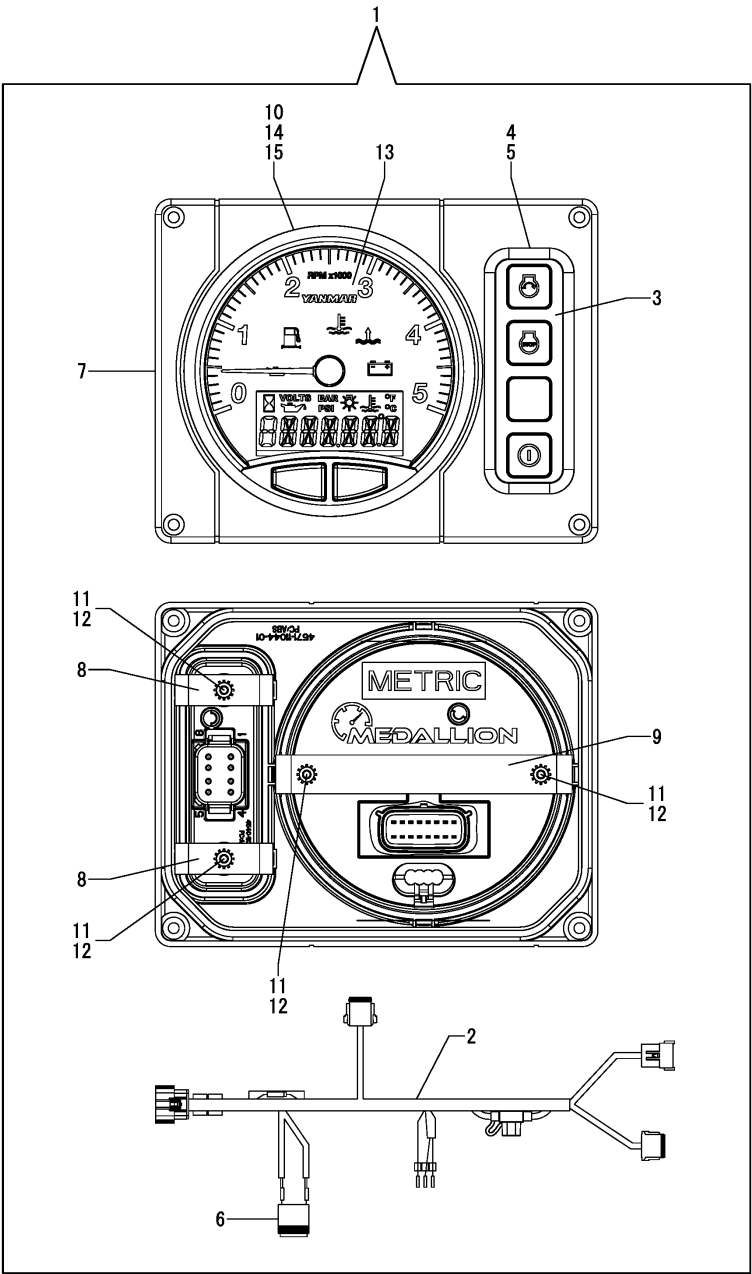
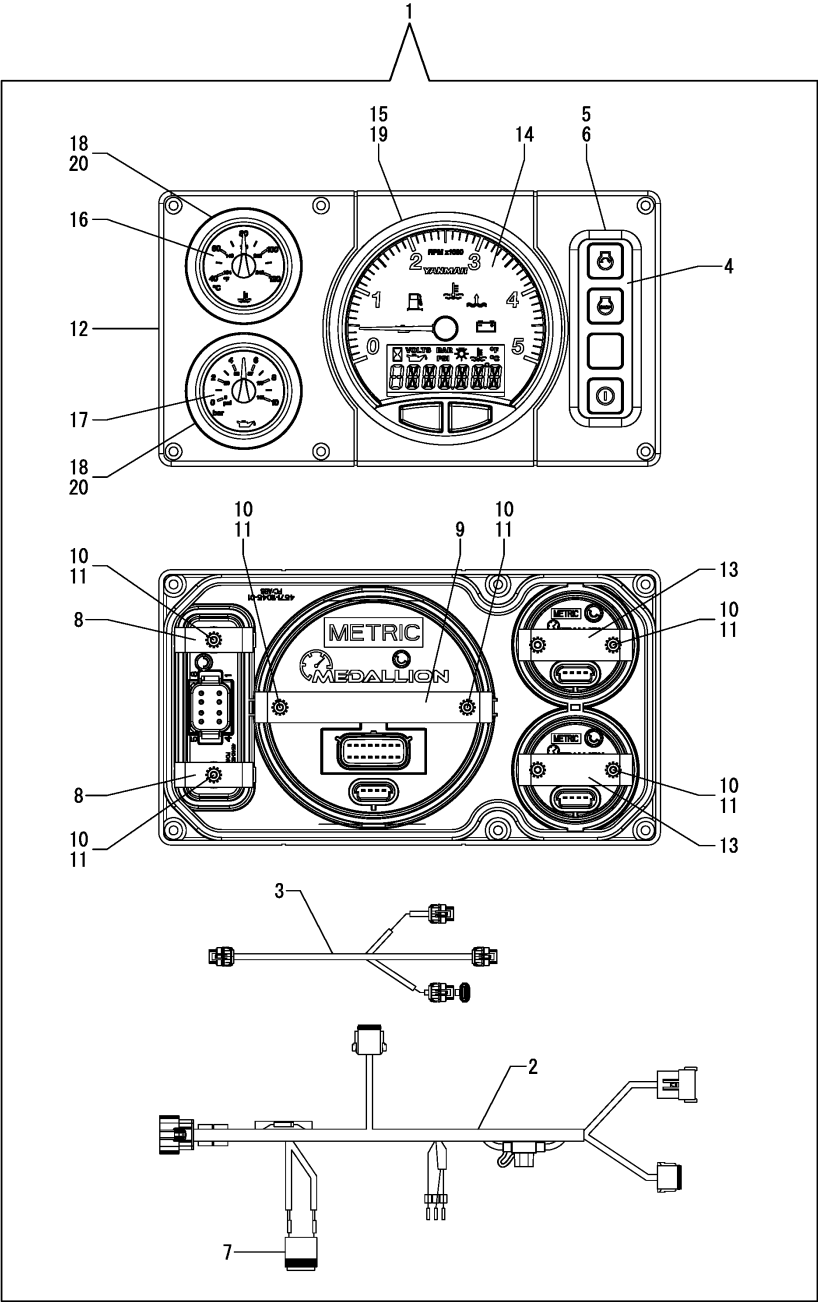


Fig.56. INSTRUMENT PANEL(C35)(MEDALLION)(OPTIONAL)

(A)=4JH80
(B)=4JH110
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164100-30310	PANEL ASSY, C35	1	1						
2	2	164100-21110	HARNESS, PANEL EL	1	1						
3	2	164100-21200	HARNESS, GAUGE 2	1	1						
4	2	164100-31110	SWITCH, PANEL EL	1	1						
5	2	164100-31150	GASKET, SWITCH	1	1						
6	2	164100-31900	BEZEL, SWITCH BK	1	1						
7	2	164100-36100	BUZZER, PANEL	1	1						
8	2	164100-39120	BRACKET, SWITCH	2	2						
9	2	164100-39131	BRACKET, GAUGE 5 MD	1	1						
10	2	164100-39180	WASHER, LOCK	8	8						
11	2	164100-39190	NUT, M3.5	8	8						
12	2	164100-39200	FRAME, PANEL C	1	1						
13	2	164100-39230	BRACKET, GAUGE 2 MD	2	2						
14	2	164100-53110	GAUGE, TACH LCD 5 EL	1	1						
15	2	164100-53150	GASKET, GAUGE 5	1	1						
16	2	164100-53200	GAUGE, TEMP CW 2	1	1						
17	2	164100-53210	GAUGE, PRESS LO 2	1	1						
18	2	164100-53250	GASKET, GAUGE 2	2	2						
19	2	164100-53900	BEZEL, GAUGE 5 BK	1	1						
20	2	164100-53920	BEZEL, GAUGE 2 BK	2	2						

Fig.57. THROTTLE SENSOR(FOR B25, C35 PANEL)(OPTIONAL)

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105311-67200	RETAINER ASSY	1	1						
5	2	22242-000100	RING, 10	1	1						
6	1	129677-77760	BRACKET, ACC. SENSOR	1	1						
7	1	121574-86320	RETAINER	1	1						
8	1	129677-91851	SENSOR ASSY, ACCEL	1	1						
9	1	22414-250150	PIN, COTTER 2.5X15	1	1						
10	1	26022-050162	SCREW, M5X16	2	2						
11	1	26106-080162	BOLT, M8X 16 PLATED	2	2						
12	1	41710-000410	CLAMP	1	1						

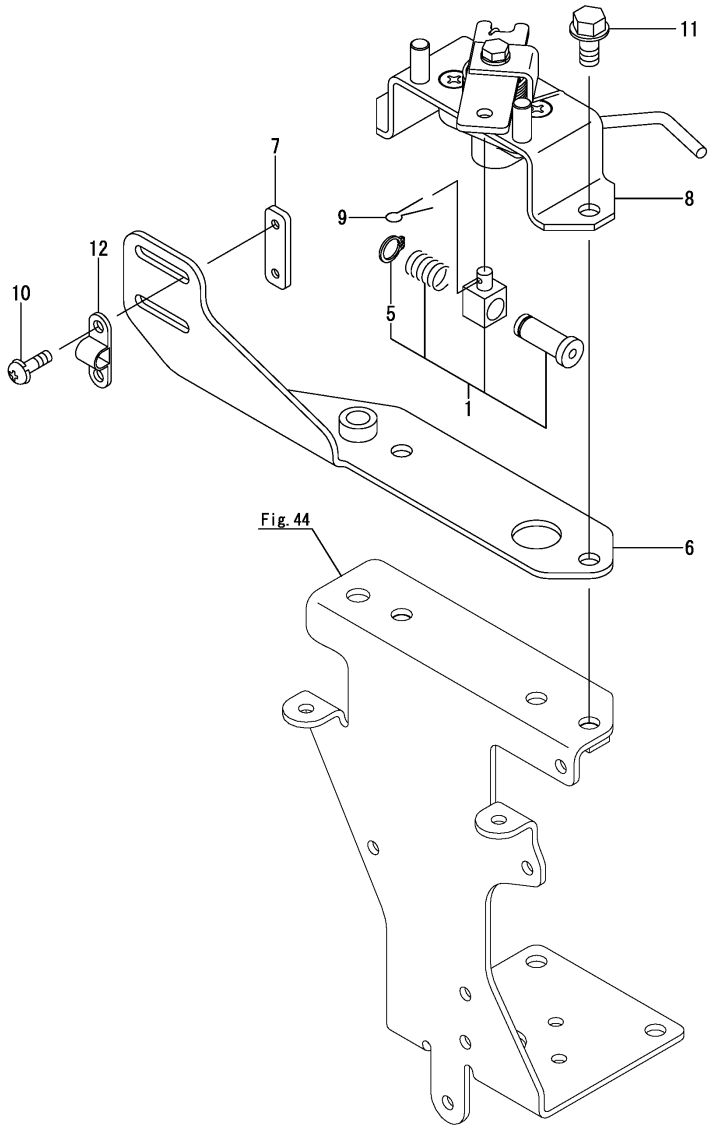
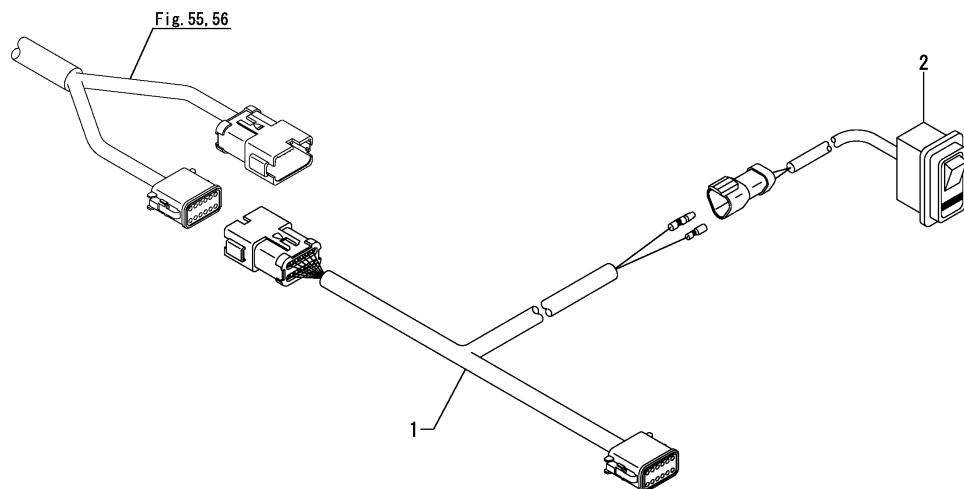


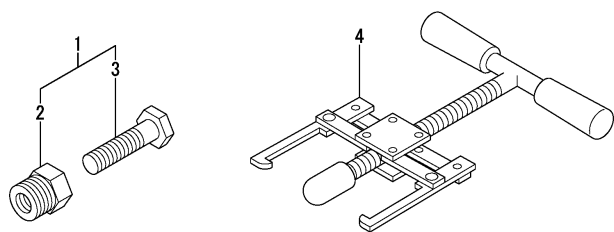
Fig. 44

Fig.58. EMERGENCY STOP SWITCH(FOR B25, C35 PANEL)(OPTIONAL)



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-21300	HARNESS, WIRE	1	1						
2	1	164100-31500	PANEL,E-STOP	1	1						

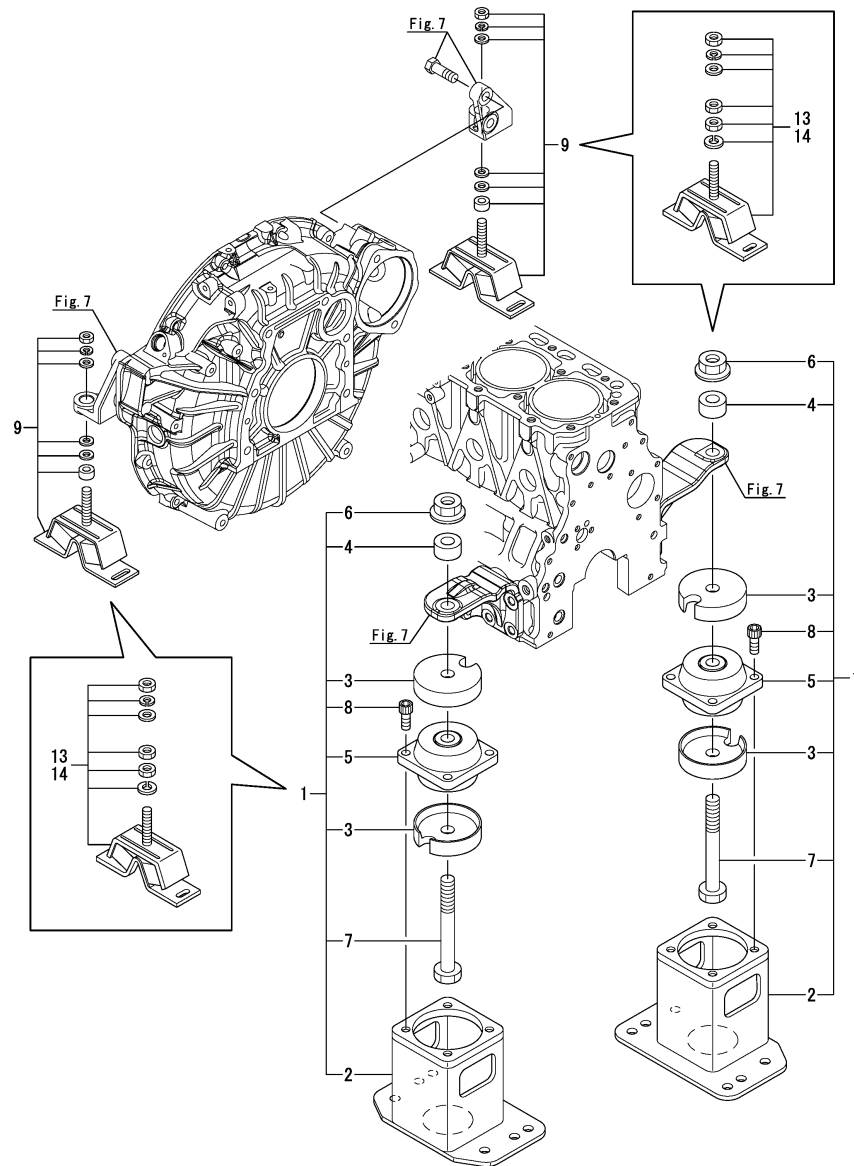
Fig.59. TOOL



No.	Lev.	Parts No.	Description	(A)=4JH80	(B)=4JH110	(C)=	(D)=	(E)=	(F)=	I	R
				Q'ty							
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-92110	PULLER ASSY	1	1						
2	2	129671-92120	PULLER	1	1						
3	2	129671-92130	BOLT, M10X40	1	1						
4	1	129671-92100	TOOL, IMPELLER PULL	1	1						1

Remarks
(1)Optional parts.

Fig.60. FLEXIBLE MOUNT

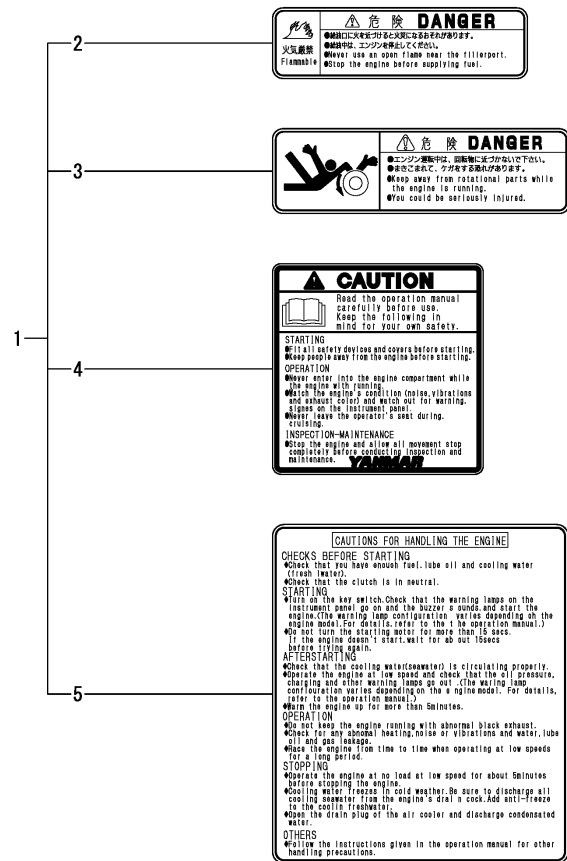


Remarks
(1)For S2 drive
(2)For SD60
(3)For KM4A2, KMH4A, ZF25A, ZF30M, clutchless
(4)Standard parts for 4JH110

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-08220	MOUNT ASSY, ABSORBER	2							1
2	2	129671-08230	SUPPORT, MOUNT	2							1
3	2	129671-08240	PLATE, ABSORBER	4							1
4	2	129671-08250	SPACER, ABSORBER	2							1
5	2	129671-08260	RUBBER, MOUNT	2							1
6	2	129671-08270	NUT, M16	2							1
7	2	129671-08280	BOLT, M16	2							1
8	2	129671-08290	BOLT, 10X25	8							1
9	1	129671-08390	MOUNT ASSY, FLEXIBLE	2							2
13	1	129670-08351	MOUNTING, FLEXIBLE	4							3
14	1	129670-08351	MOUNTING, FLEXIBLE		4						4

Fig.61. SAFETY LABEL(BUNDLED ITEMS)



No.	Lev.	Parts No.	Description	(A)=4JH80	(D)=
				(B)=4JH110	(E)=
				(C)=	(F)=
				Q'ty	I R
				(A)	(B)
				(C)	(D)
				(E)	(F)
1	1	128377-07190	LABEL,LOOSE PARTS	1	1
2	2	128377-07400	LABEL,DANGER	2	2
3	2	128377-07420	LABEL,DANGER	1	1
4	2	128377-07450	LABEL,CAUTION	1	1
5	2	128377-07460	LABEL,CAUTION	1	1

(A)=4JH80
(B)=4JH110
(C)=

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

[illegible]

(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-86501	REMOCON HEAD (MN	1	1						
2	1	41730-000681	MT-3 REMO-CON	1	1						

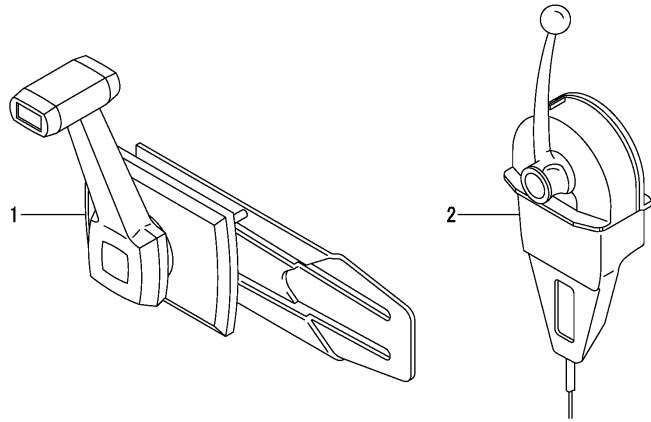
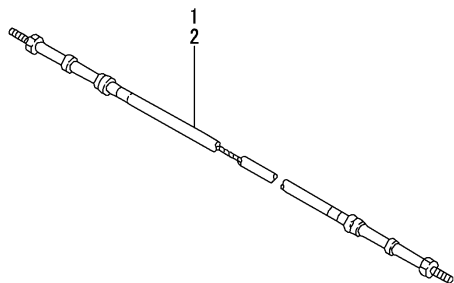


Fig.64. REMOTE CONTROL CABLE(OPTIONAL)

[illegible]

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	42	11
105311-67200	57	1
105425-01690	4	2
105430-67110	12	7
119172-55800	42	2
119172-55810	42	9
119175-91050	44	26
119187-39700	41	1
119578-75610	49	2
119578-77080	46	2
119578-77200	46	3
119578-91300	49	24
119609-32040	2	6
119620-49290	22	35
	30	14
119624-32040	2	7
119640-61400	11	13
119773-42570	27	14
	28	14
119773-77030	49	3
119802-11260	10	3
119802-11270	10	4
119802-13590	2	26
119802-25071	16	29
119802-49730	43	5
119807-11770	48	4
119934-01800	2	21
120130-11860	10	39
120270-54410	10	32
120270-77102	49	25
120650-07060	6	1
120650-42350	27	19
	28	19
120650-42380	27	18
	28	18
120650-42420	27	16
	28	16
121111-21501	20	11
121252-39450	22	43
121400-11340	10	26
121450-01560	2	2
	25	1
121550-23200	21	16
121574-86320	57	7
121575-49310	22	48
	48	5
121850-21680	20	10
121857-55630	42	3
121857-55710	42	6
121857-55730	42	7

Parts No.	Fig. No.	Ref. No.
121857-55740	42	8
121857-55750	42	4
121857-55760	42	5
122780-59100	40	9
123325-49421	27	10
123682-07852	6	2
123901-39820	23	13
124060-01050	1	12
124160-01751	2	4
	11	1
124160-01910	1	13
		14
124160-11360	11	19
124160-39140	23	1
124195-77770	45	23
124223-39900	23	5
124240-01871	2	10
		14
		22
124398-49700	5	2
124413-39710	23	6
124460-11340	10	27
124550-21600	20	15
124976-34850	1	40
127605-11370	11	10
127610-39350	41	2
127677-33060	30	4
127677-33070	30	5
127677-77060	46	1
127677-77330	49	9
127687-39360	41	3
128170-86501	63	1
128377-07150	6	5
128377-07190	61	1
128377-07350	8	2
128377-07400	61	2
128377-07420	61	3
128377-07450	61	4
128377-07460	61	5
128397-44500	30	26
128397-44510	30	28
128790-77580	48	10
128990-07270	6	6
128990-07900	6	3
128990-34900	6	8
128990-49400	38	4
128990-77250	47	1
	48	7
128990-77430	46	4
128990-77441	8	4

Parts No.	Fig. No.	Ref. No.
128990-77441	9	3
	44	22
128990-77510	8	9
	9	9
128990-77600	8	5
	9	4
	44	23
128990-77610	46	7
129001-01250	1	5
129001-02931	1	31
129004-11650	10	6
129005-11100	10	22
129006-44480	22	28
129051-49310	22	39
	38	1
129054-42320	29	3
129100-01580	2	3
	3	1
	20	2
129100-11130	10	24
129150-01200	1	29
129150-01881	25	2
	26	1
129150-02020	1	7
129150-02450	16	4
129150-02871	1	34
129150-02931	1	26
129150-02941	1	37
129150-03070	11	4
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