

OCF50-M00091EN

Introduction

1. This parts catalog for 4JH80, 4JH110 is published as a revised edition.

	Date of issue	Remarks
First edition	July, 2014	No need
1st revised edition	Mar., 2018	

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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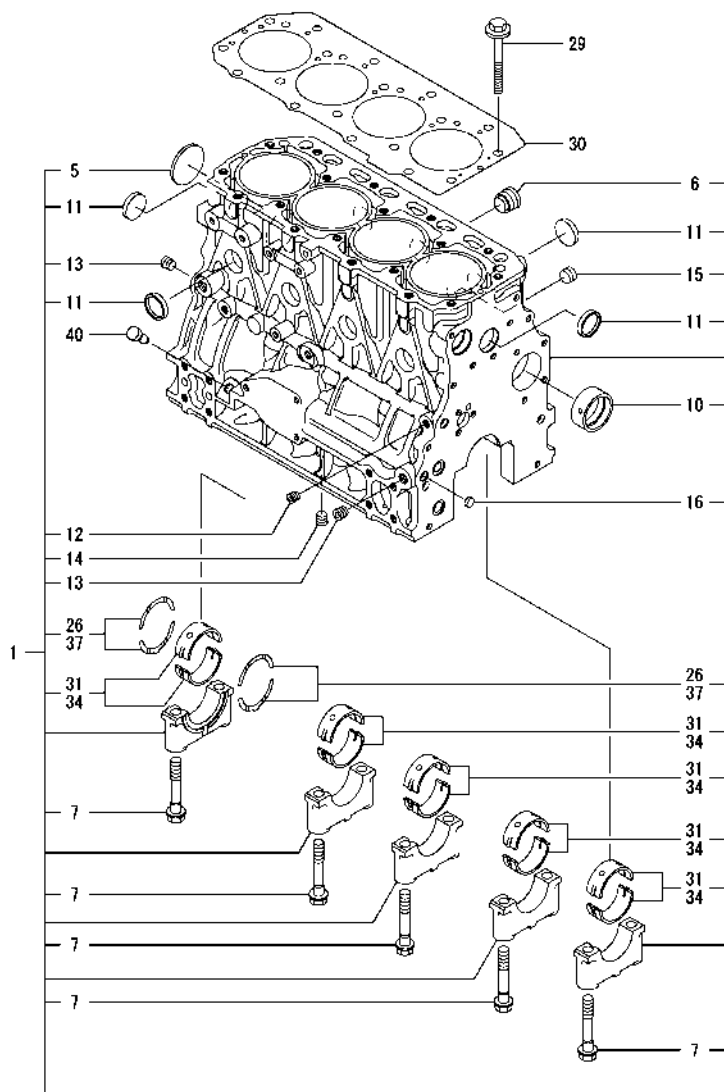
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Fig.1. CYLINDER BLOCK



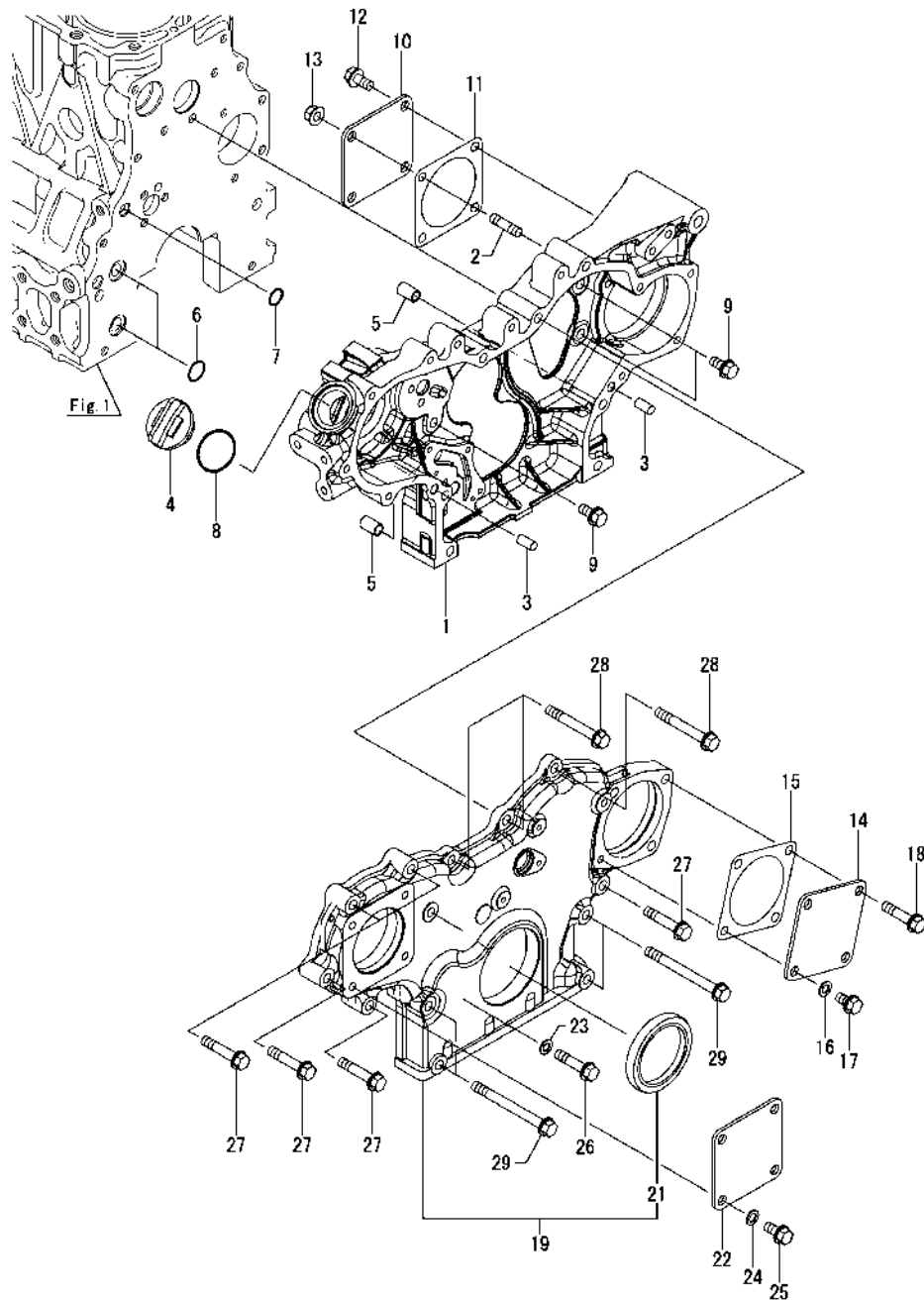
				(A)=4JH80 (B)=4JH110 (C)=				(D)= (E)= (F)=			
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129677-01560	BLOCK ASSY, CYLINDER	1	1						
5	3	129001-01250	PLUG, 50	1	1						
6	3	171051-01921	PLUG, NPTF1	1	1						
7	3	129150-02020	BOLT, METAL CAP	10	10						
10	3	129795-02412	BUSH, CAMSHAFT	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	METAL ASSY, THRUST	2	2						
29	1	129150-01200	BOLT, CYLINDER HEAD	18	18						
30	1	129693-01341	GASKET, HEAD	1	1						
31	1	129001-02931	METAL ASSY, MAIN	5	5						1
34	1	129150-02871	METAL ASSY, MAIN .25	5	5						2
37	1	129150-02941	METAL ASSY, 0.25 OS	1	1						3
40	1	124976-34850	PLUG	1	1						

Remarks

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

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

Fig.2. GEAR HOUSING



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	129677-01500	CASE, GEAR	1	1					
2	1	121450-01560	BOLT, PUMP M8X22	1	1					
3	1	129100-01580	PIN, PARALLEL 8X16	2	2					
4	1	124160-01751	CAP, 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,HYDRAULIC PUMP	1	1					
11	1	129C26-01890	GASKET, PUMP	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,HYDRAULIC PUMP	1	1					
15	1	129C26-01890	GASKET, PUMP	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, CASE	1	1					
21	2	119934-01800	SEAL, OIL	1	1					
22	1	124240-01871	COVER,HYDRAULIC PUMP	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 10.9T	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					

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, PARALLEL 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	1	1						
9	1	26450-060162	BOLT, M6X 16	1	1						

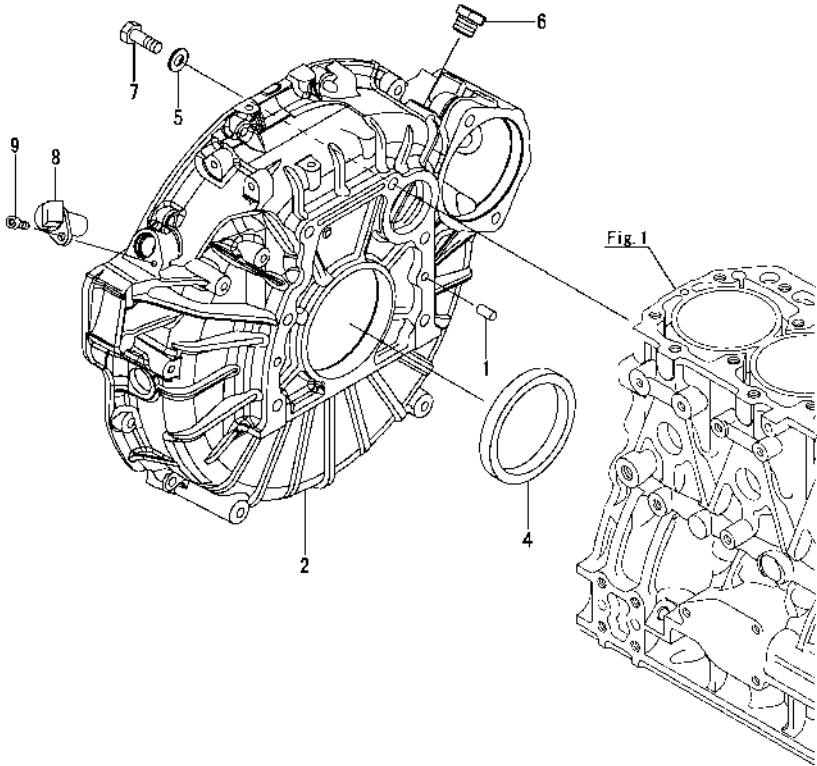


Fig.4. OIL SUMP

(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	OIL PAN ASSY	1	1						
2	2	105425-01690	PLUG, DRAIN M16	2	2						
5	2	22190-160002	WASHER, SEAL 16	2	2						
5-1	2	23414-160000	GASKET, 16X1.0	2	2					N	
		(A=*2016.07.) (B=*2016.07.)									
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						

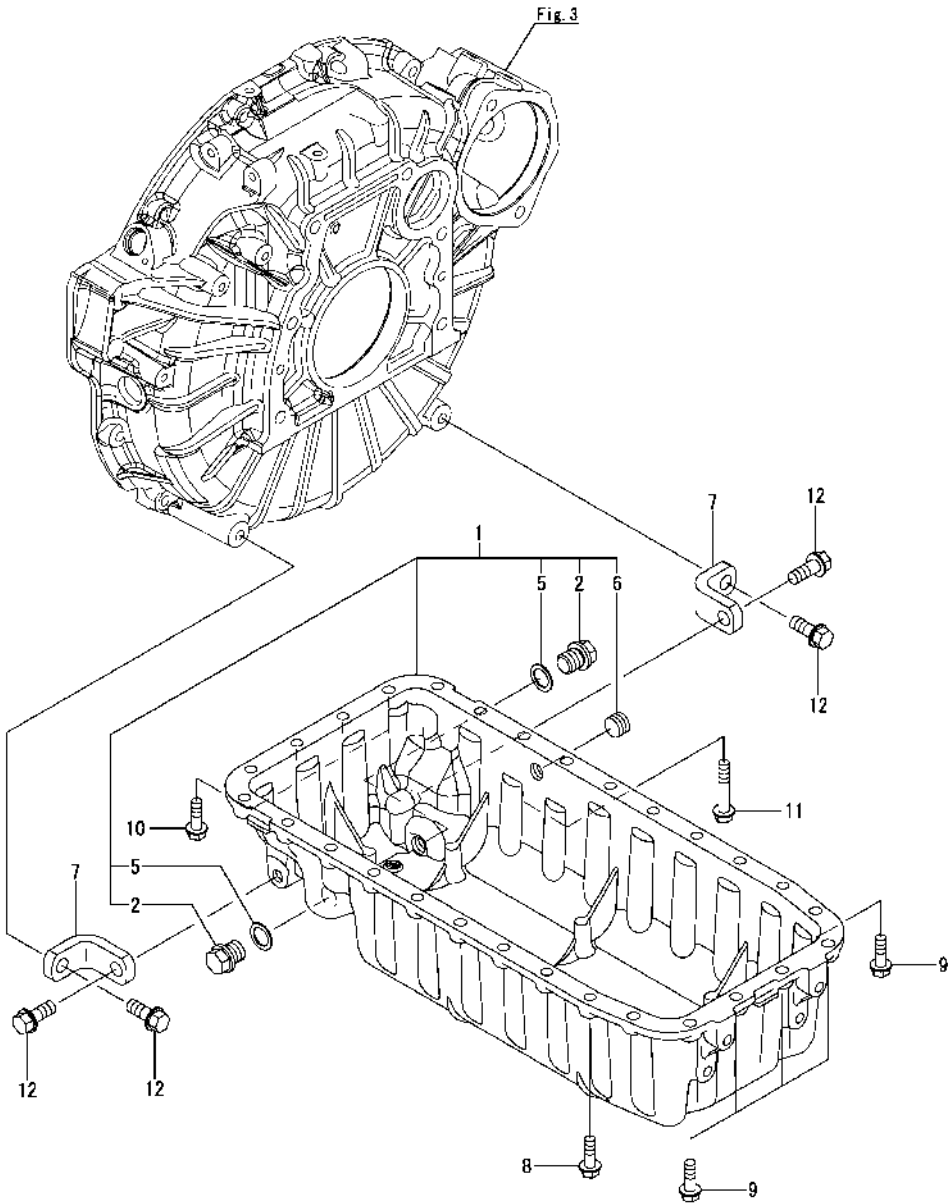
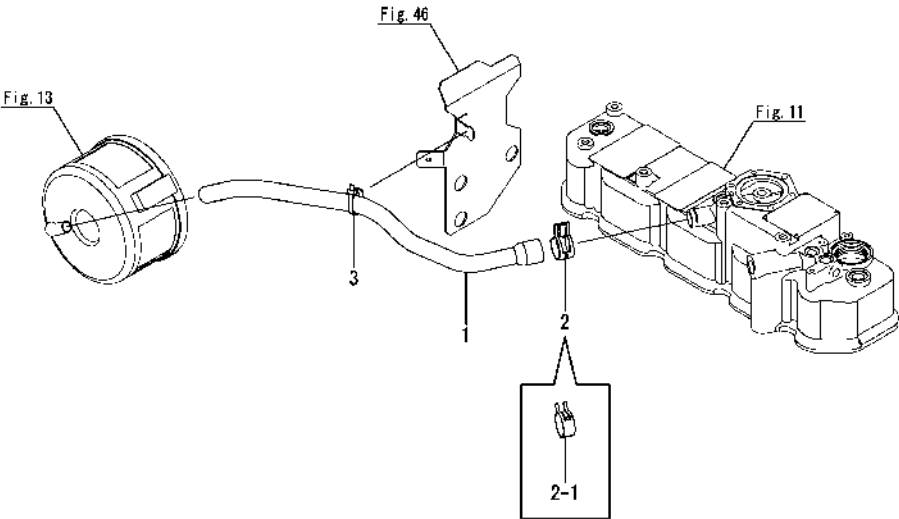


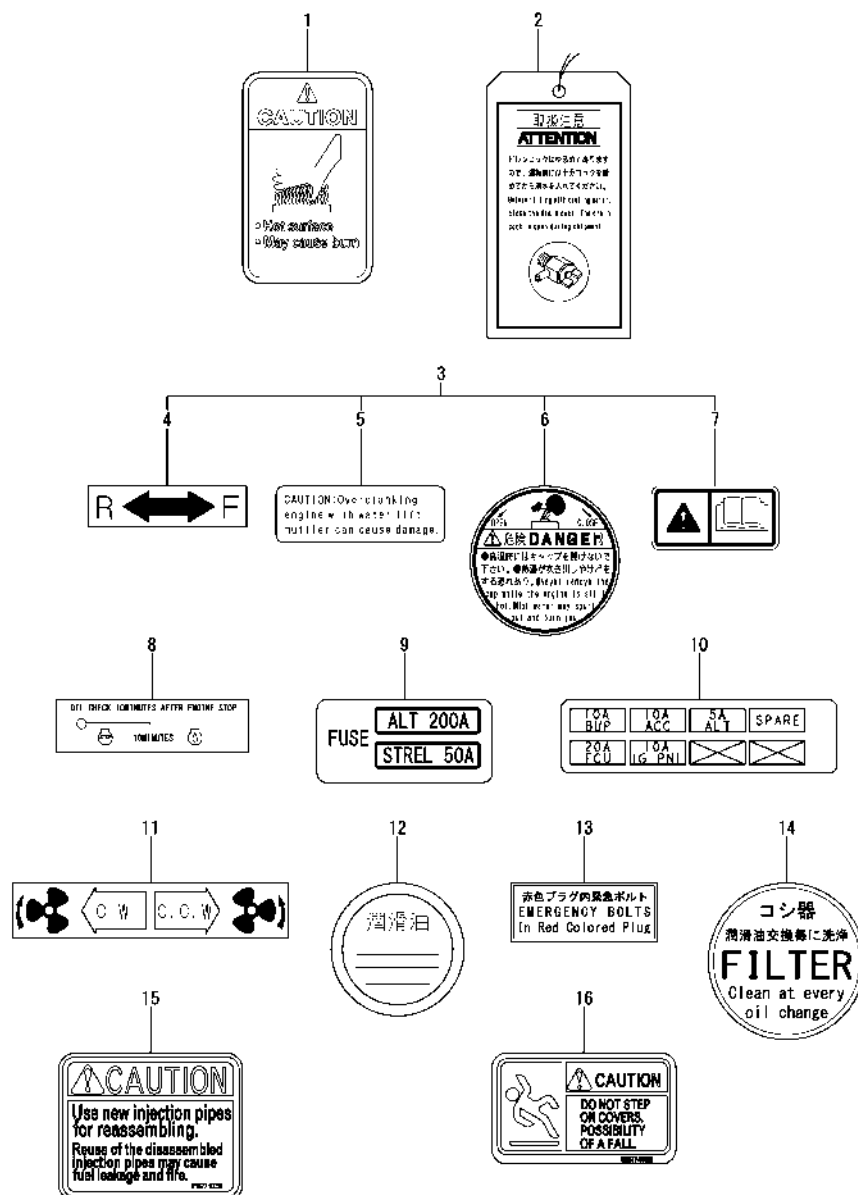
Fig.5. BREATHER

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

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

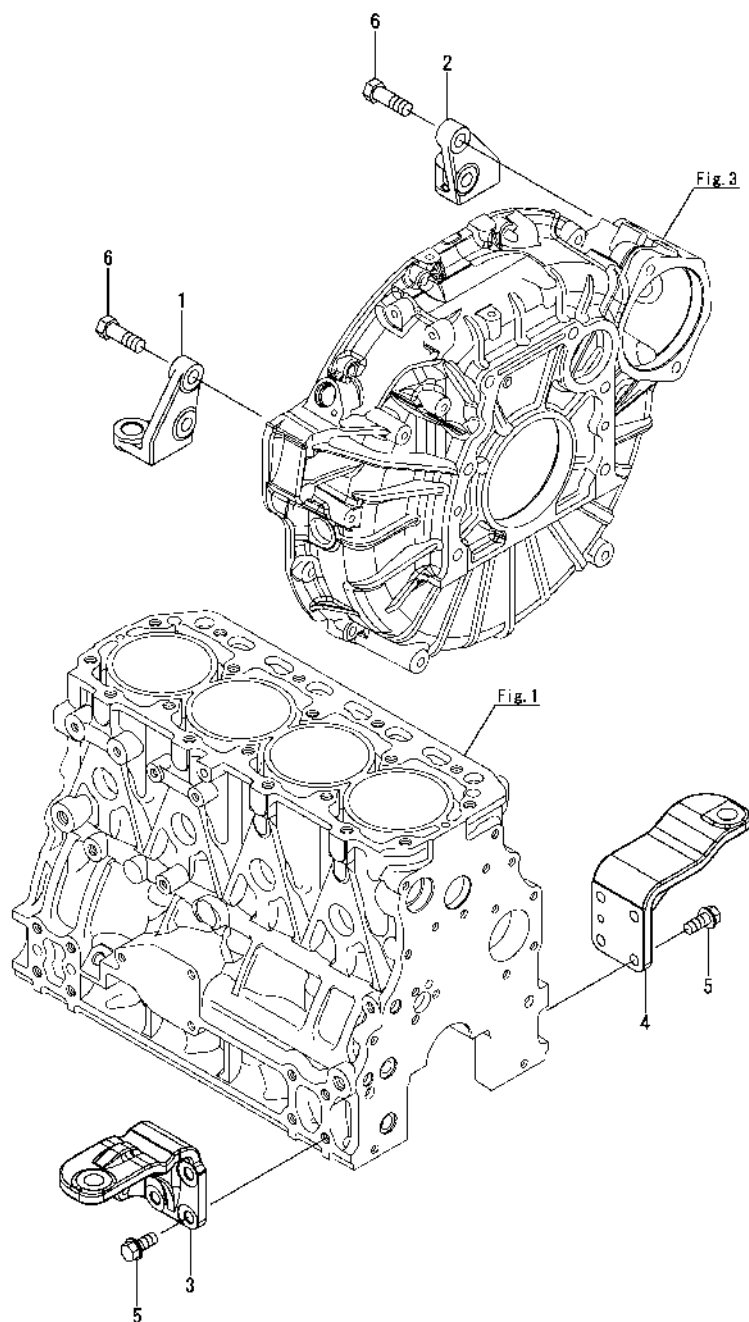
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-03090	PIPE, BREATHER	1	1						
2	1	124398-49700	CLIP, HOSE 24.0	1	1						
2-1	1	129410-03990	CLAMP, HOSE 21.5	1	1					N	
		(A=E50450)	(B=E50574)								
3	1	29621-200001	BAND, TR200	1	1						



[illegible]

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

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



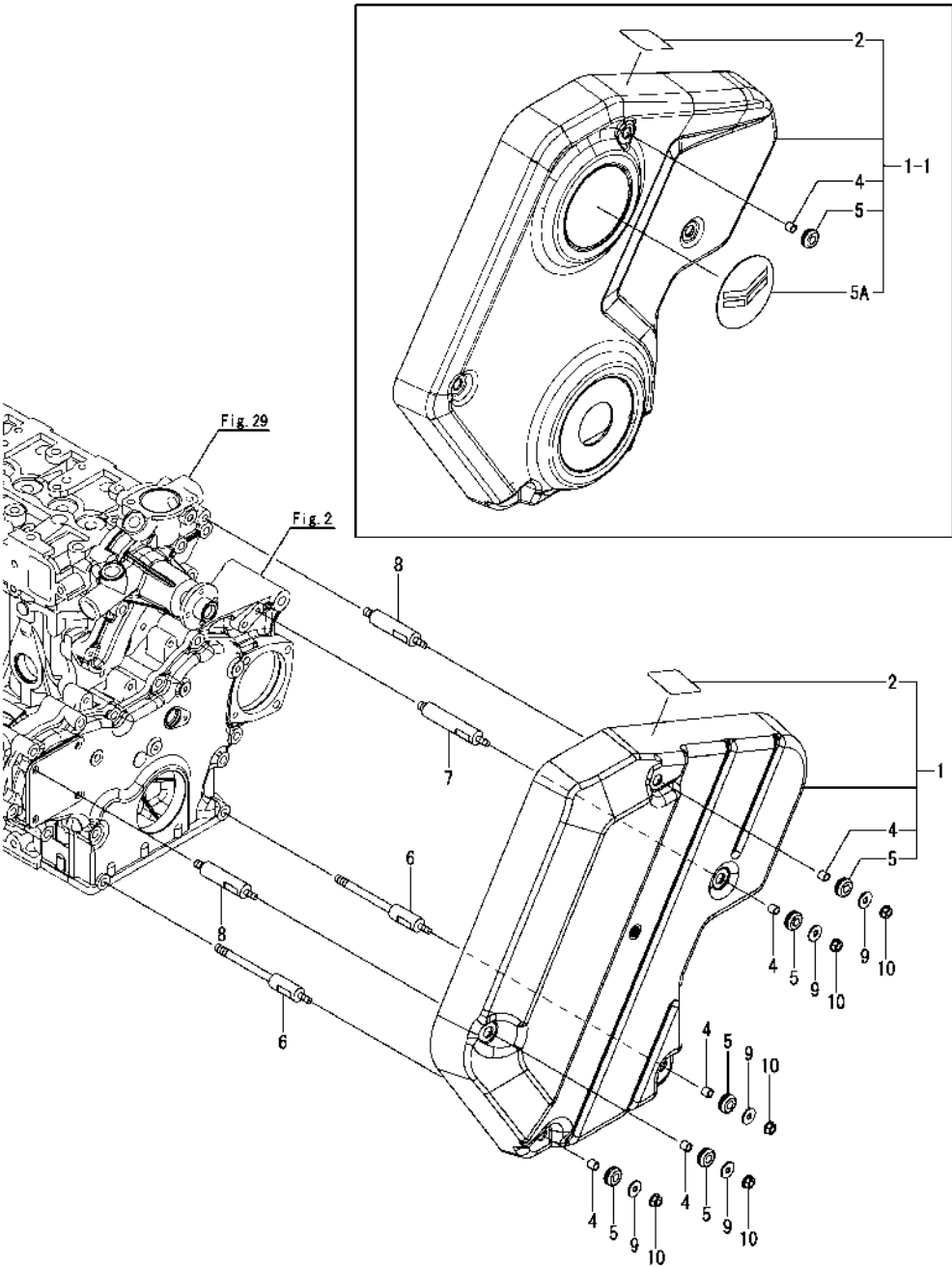
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-08150	FOOT, MOUNTING C	1	1						
2	1	129671-08160	FOOT, MOUNTING D	1	1						
3	1	129671-08211	FOOT, MOUNTING	1	1						
4	1	129670-08220	FOOT, MOUNTING B	1	1						
5	1	26106-100222	BOLT, M10X 22 PLATED	8	8						
6	1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

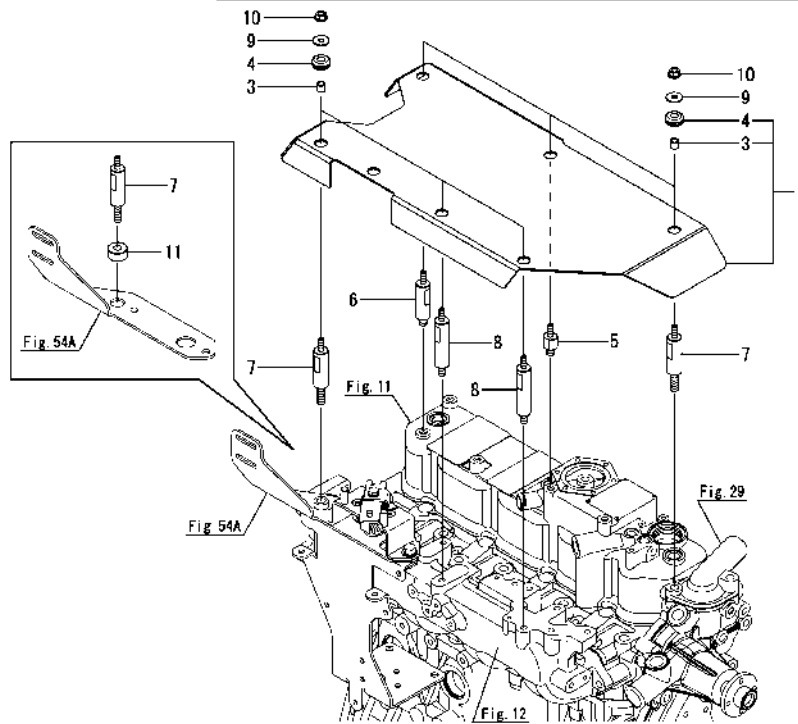
Fig.8. COVER(BELT)

(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	129677-09000	COVER ASSY, BELT	1	1						
1-1	1	129677-09020	COVER ASSY, BELT	1	1						N
(A=*2017.12.) (B=*2017.12.)											
2	2	128377-07350	LABEL, CAUTION	1	1						
4	2	128990-77441	COLLAR, M6	5	5						
5	2	128990-77600	GROMMET, M6	5	5						
5A	2	1A8060-65250	LABEL, FLYING Y	1	1						W
(A=*2017.12.) (B=*2017.12.)											
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, PLAIN	5	5						
10	1	26366-060002	NUT, M6	5	5						



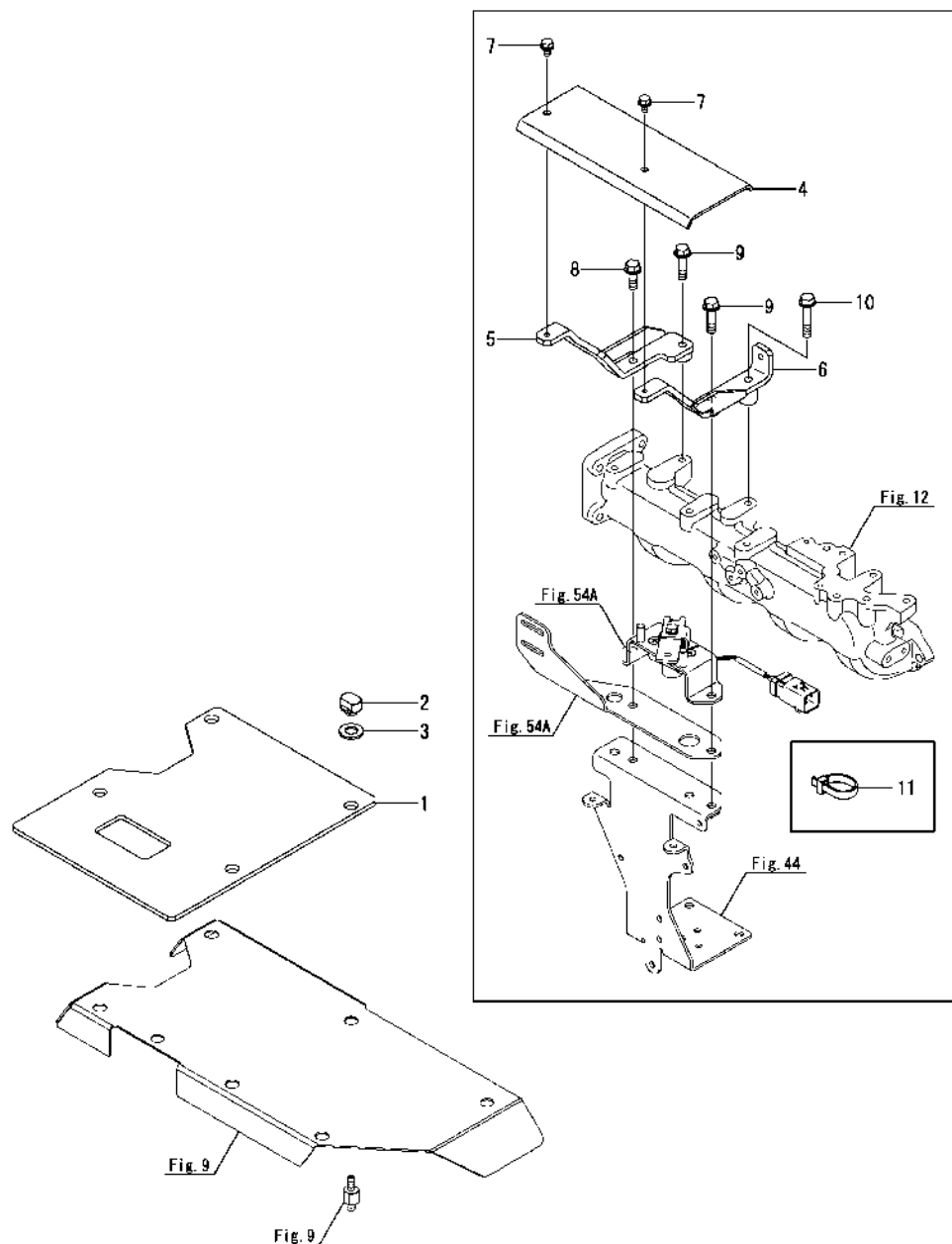


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129677-09201	COVER ASSY	1	1					Z	2
		(A=*2017.12.)	(B=*2017.12.)								
3	2	128990-77441	COLLAR, M6	6	6					Z	
		(A=*2017.12.)	(B=*2017.12.)								
4	2	128990-77600	GROMMET, M6	6	6					Z	
		(A=*2017.12.)	(B=*2017.12.)								
5	1	129677-09451	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, PLAIN	6	6					Z	
		(A=*2017.12.)	(B=*2017.12.)								
10	1	26366-060002	NUT, M6	6	6						
11	1	129677-09620	SPACER, TOPCOVER D=9	1	1					W	1
		(A=E50450)	(B=E50562)								
11-1	1	129677-09621	SPACER,TOPCOVER 4JHC	1	1					S	
		(A=*2017.12.)	(B=*2017.12.)								
12	1	129677-09300	COVER ASSY,TOP	1	1					W	2
		(A=*2017.12.)	(B=*2017.12.)								
13	2	129677-09290	COVER SUB ASSY,TOP	1	1						
14	3	129677-09310	COVER, TOP BASE	1	1						
15	3	129677-09320	PLATE, TOP COVER	1	1						
16	3	128990-77441	COLLAR, M6	6	6						
17	3	128990-77600	GROMMET, M6	6	6						
18	2	129677-09330	EMBLEM,FY S04	1	1						
19	2	129677-09340	MARK,YANMAR PR L250	1	1						
20	2	128990-77510	WASHER, PLAIN	6	6						
21	2	26366-060002	NUT, M6	6	6						

(1)Fig.57(54A) No.6-1 interchangeable by set.
(2)Interchangeability of No.1 & No.13 applies to 'N'.

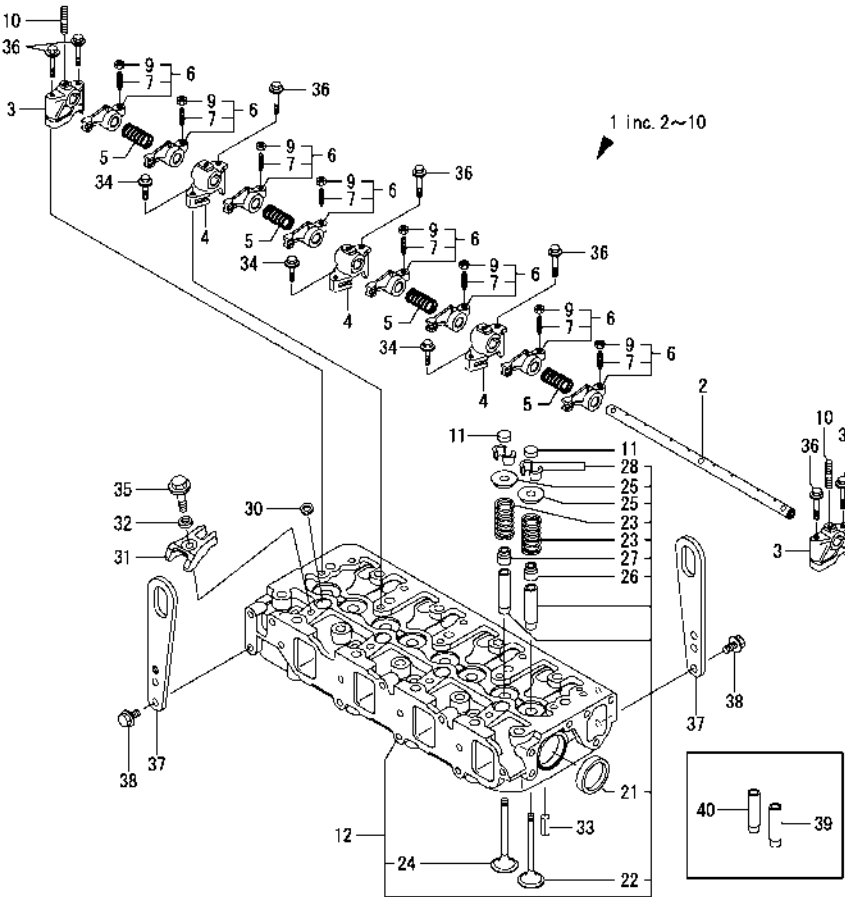
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-09240	COVER, SERVICE	1	1					Z	
		(A=*2017.12.)	(B=*2017.12.)								
2	1	129677-09250	NUT, COVER	4	4					Z	
		(A=*2017.12.)	(B=*2017.12.)								
3	1	129677-09270	WASHER, NYLON	4	4					Z	
		(A=*2017.12.)	(B=*2017.12.)								
4	1	129677-09910	COVER, SERVICE	1	1						W
		(A=*2017.12.)	(B=*2017.12.)								
5	1	129677-09920	SUPPORT, A	1	1						W
		(A=*2017.12.)	(B=*2017.12.)								
6	1	129677-09930	SUPPORT, B	1	1						W
		(A=*2017.12.)	(B=*2017.12.)								
7	1	26106-060102	BOLT, M6X 10 PLATED	2	2						W
		(A=*2017.12.)	(B=*2017.12.)								
8	1	26106-080222	BOLT, M8X 22 PLATED	1	1						W
		(A=*2017.12.)	(B=*2017.12.)								
9	1	26106-080302	BOLT, M8X 30 PLATED	2	2						W
		(A=*2017.12.)	(B=*2017.12.)								
10	1	26106-080402	BOLT, M8X 40 PLATED	1	1						W
		(A=*2017.12.)	(B=*2017.12.)								
11	1	29621-200001	BAND, TR200	1	1						W
		(A=*2017.12.)	(B=*2017.12.)								

Fig.10. CYLINDER HEAD



(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	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, SHAFT	4	4						
6	2	129004-11650	ARM ASSY, ROCKER	8	8						
7	3	129150-11230	SCREW, VALVE ADJUST	8	8						
9	3	129150-11750	NUT, M8XP1.0	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, ENGINE	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

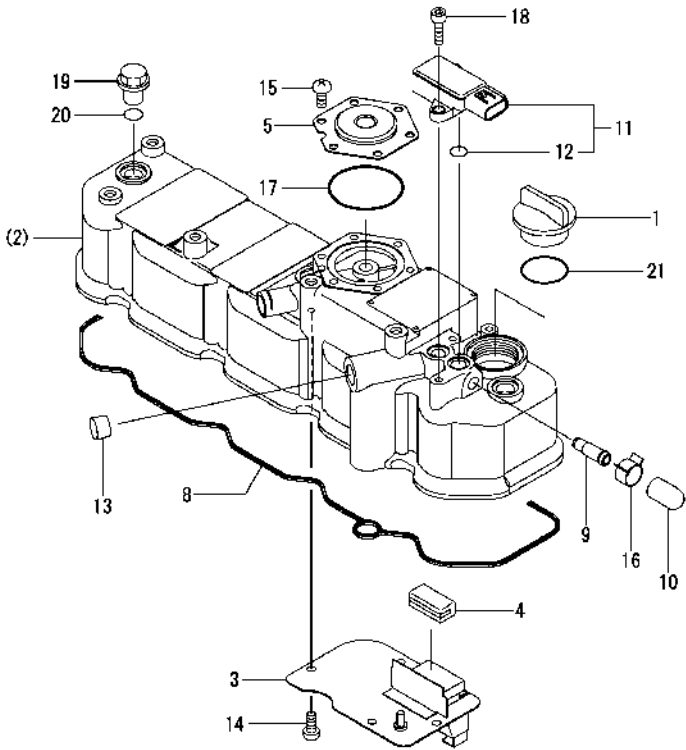
Remarks
(1)Spare parts.

Fig.11. BONNET

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

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

2 inc. (2) ~18



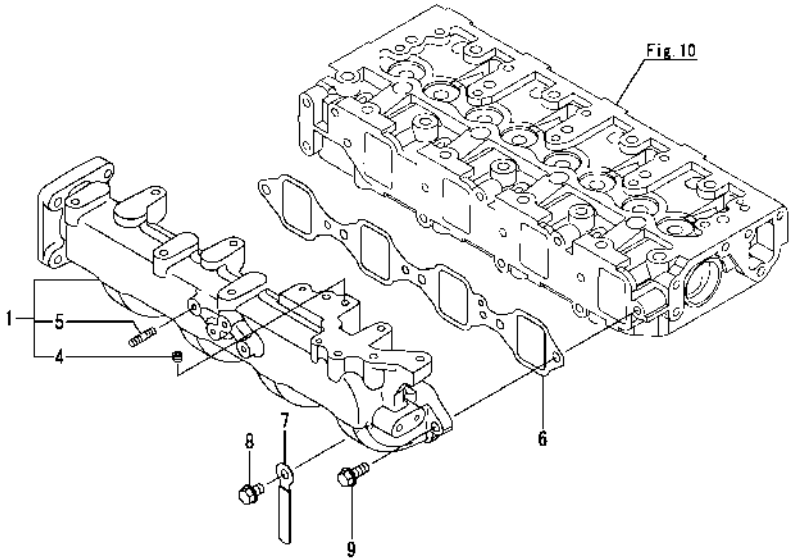
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-01751	CAP, FILLER	1	1						
2	1	129677-11350	BONNET ASSY, HEAD	1	1						
2-1	1	129677-11351	BONNET ASSY	1	1						N
(A=E50217) (B=E50217)											
3	2	129685-03010	PLATE, BAFFLE	1	1						
4	2	129150-03070	BAFFLE, BREATHER	1	1						
5	2	129C28-03120	PLATE, BREATHER	1	1						
8	2	129C00-11310	GASKET, BONNET	1	1						
9	2	129A00-11330	JOINT	1	1						
10	2	127605-11370	CAP	1	1						
11	2	129A00-12703	SENSOR,PRESSURE	1	1						
11-1	2	129978-12700	SENSOR, PRESSURE	1	1						N
(A=E50217) (B=E50217)											
12	3	129A00-12780	O-RING, EGR 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, BONNET	3	3						
20	1	24311-000120	O-RING, 1AP12.0	3	3						
21	1	24311-000320	O-RING, 1AP32.0	1	1						

Fig.12. SUCTION MANIFOLD

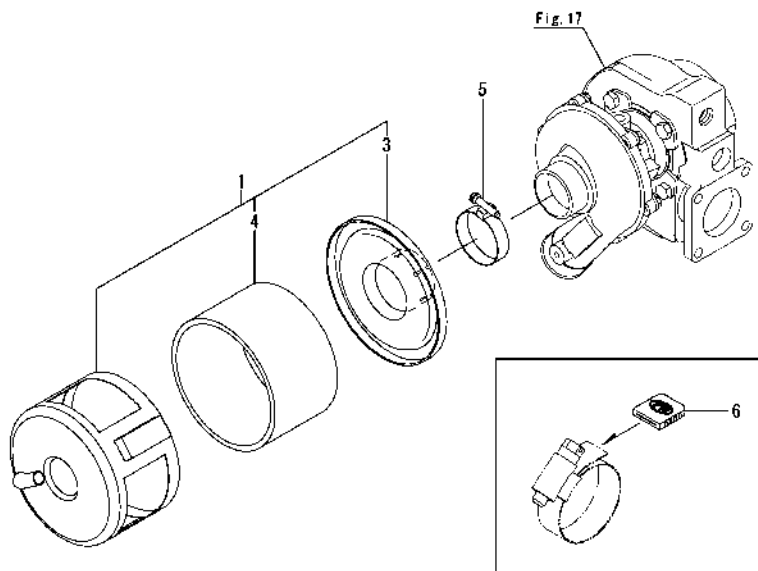
(A)=4JH80
(B)=4JH110
(C)=

(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, 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						



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-12301	SILENCER ASSY,INTAKE	1	1						
3	2	129470-12320	PLATE ASSY, BACK	1	1						
4	2	129470-12330	ELEMENT ASSY	1	1						
5	1	23000-054000	CLAMP, 54	1	1						
6	1	129677-49950	PROTECTOR,HOSE CLAMP	1	1					W	1
		(A=E51201)	(B=E51210)								



(1) Attached to the end of No.5 hose clamp.

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

Fig.14. MIXING ELBOW(L 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, TURBINE OUT	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						

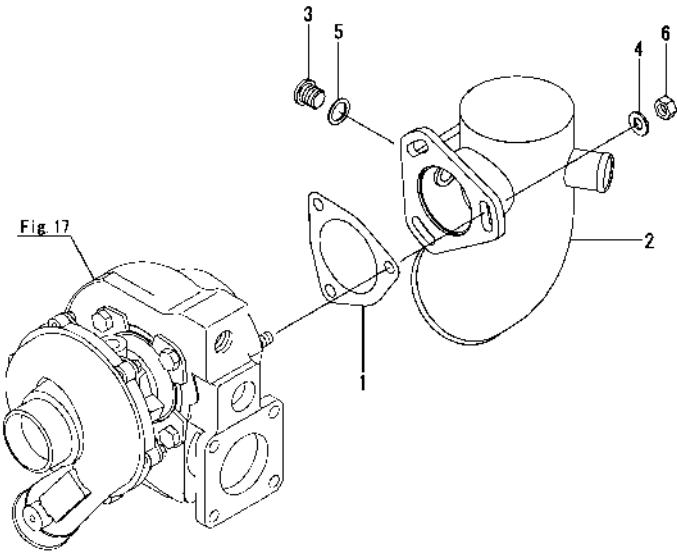
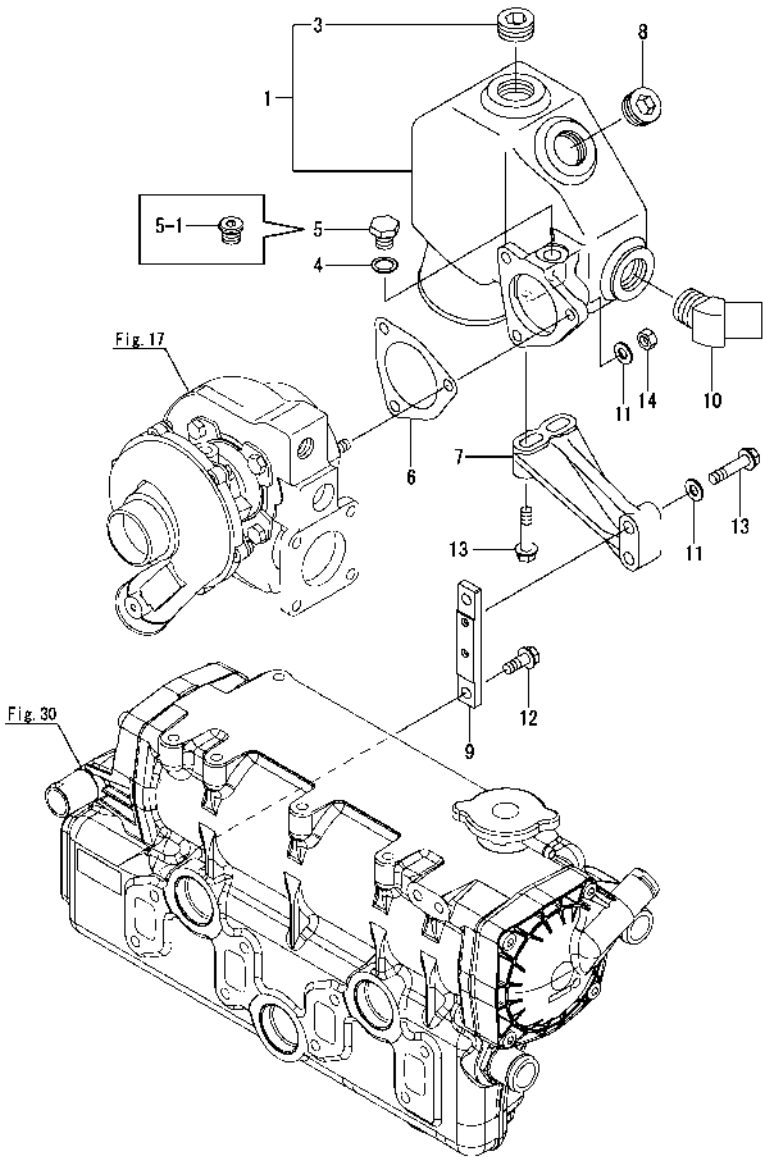


Fig.15. MIXING ELBOW(U TYPE)

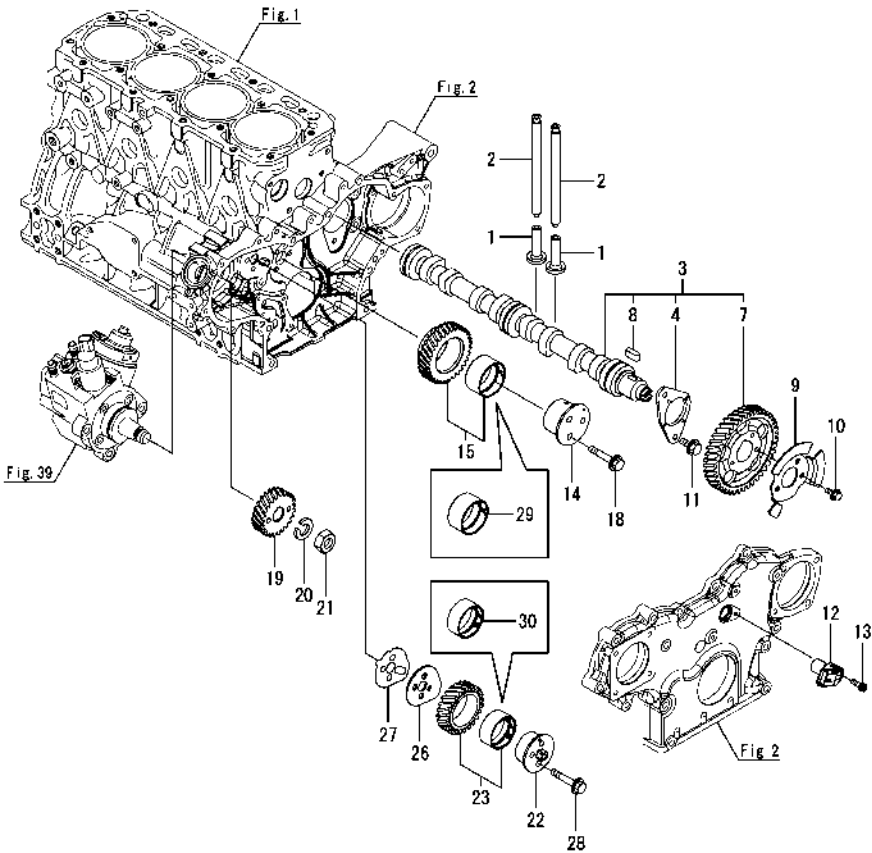


(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129472-13501	ELBOW ASSY, MIXING	1	1						
3	2	129472-13560	PLUG, SCREW PT3/4	1	1						
4	1	23414-130000	GASKET, 13X1.0	1	1						
5	1	23893-020002	PLUG, G1/4	1	1						
5-1	1	129671-13570	PLUG, G 1/4A	1	1						N
		(A=E50450) (B=E50562)									
6	1	129472-13520	GASKET, TURBINE OUT	1	1						
7	1	129472-13550	SUPPORT, ELBOW	1	1						
8	1	129472-13560	PLUG, SCREW PT3/4	1	1						
9	1	129677-13800	BRACKET, 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						

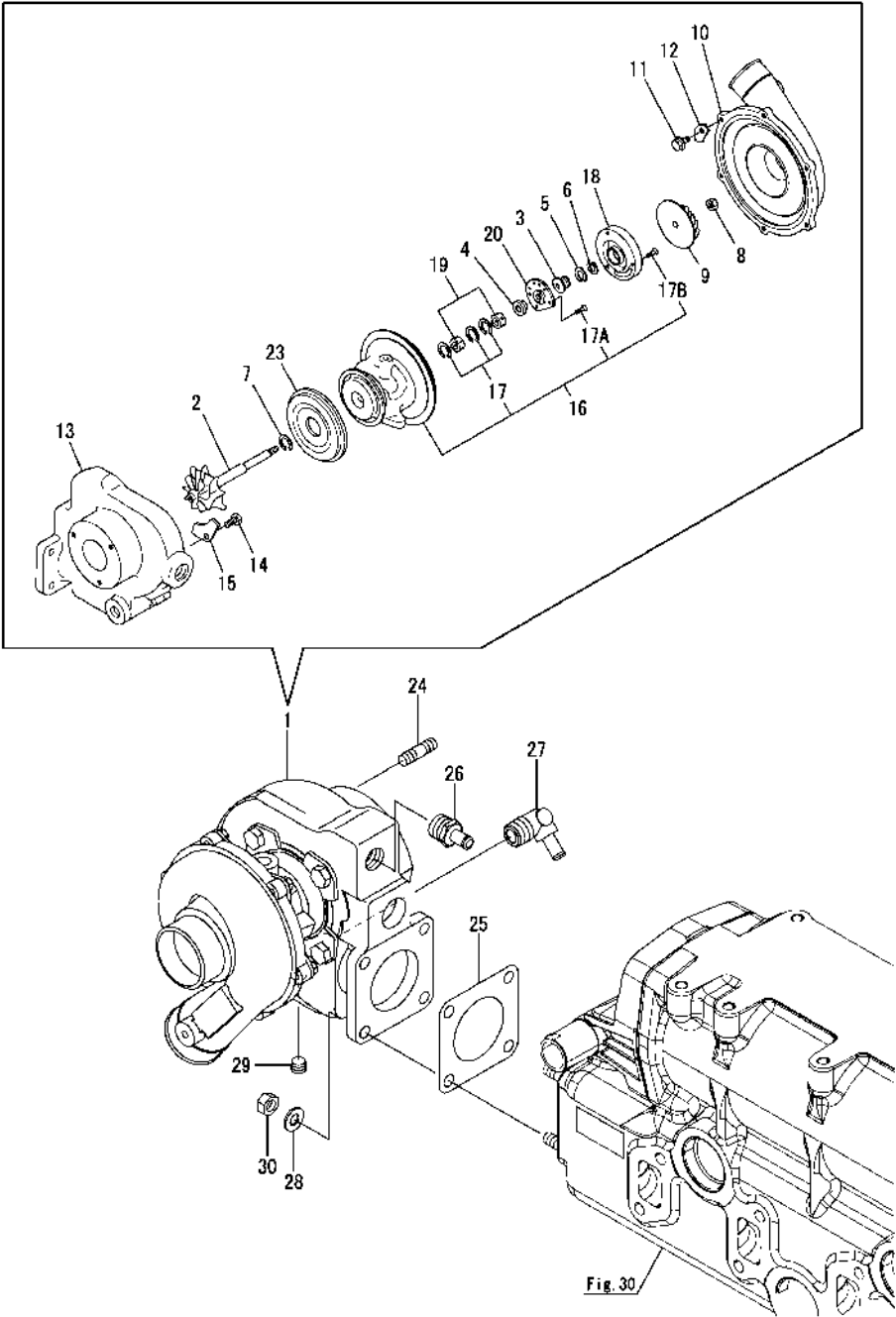
Fig.16. CAMSHAFT & DRIVING GEAR



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	METAL, 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, ROTATION	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, IDLE GEAR B	1	1						1

Remarks
(1)Spare parts.

Fig.17. TURBINE



OCF50-M00091 Fig.17

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

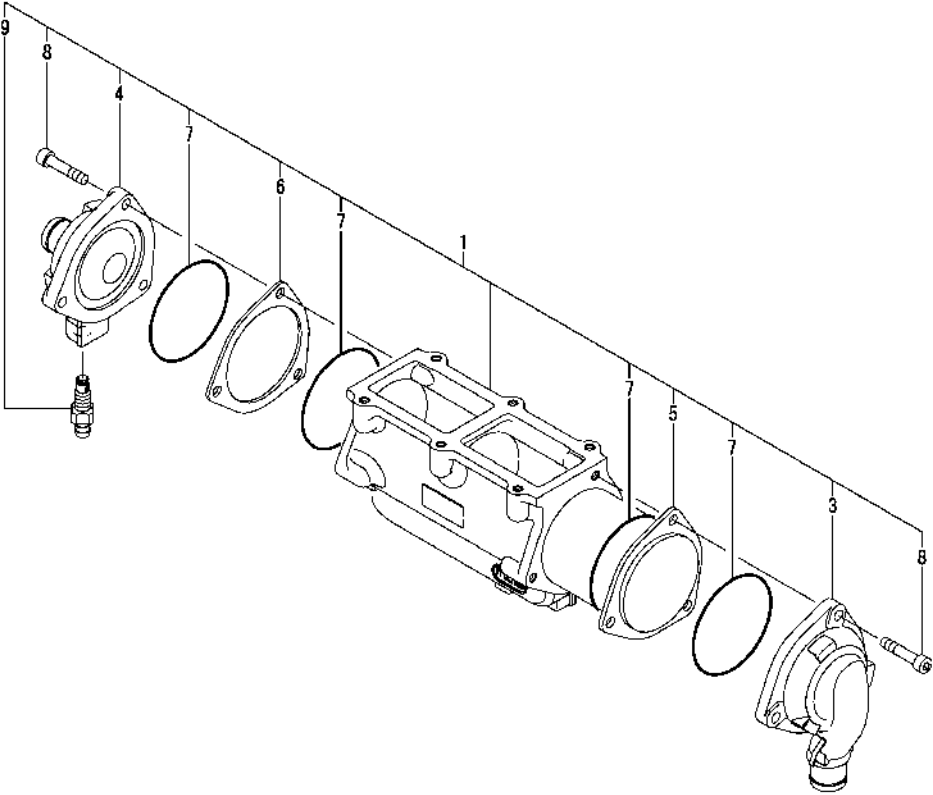
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-18001	TURBINE, RHB52YW	1	1						
2	2	XNN131614	SHAFT, TURBINE	1	1						
3	2	XNN131578	OIL THROWER	1	1						
4	2	XNN131579	BUSH, THRUST	1	1						
5	2	XNB131008	RING, SEAL	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, TURBINE	1	1						
14	2	XNN137007	BOLT, M8	4	4						
15	2	XNN137423	RETAINER	4	4						
16	2	XNE923383	HOUSING, BEARING	1	1						
17	3	XNN133208	CIRCLIP	3	3						
17A	3	XNB133206	SCREW	4	4						
17B	3	XNB133208	SCREW, SEAL PLATE	3	3						
18	2	XNN133022	PLATE, SEAL	1	1						
19	2	XNN133506	METAL, FLOATING	2	2						
20	2	XNN133596	METAL, THRUST	1	1						
23	2	XNN137055	PROTECTOR, HEAT	1	1						
24	1	129670-13600	STUD, M8X20	3	3						
25	1	129472-18090	GASKET, TURBINE IN	1	1						
26	1	129677-49300	JOINT, HOSE R3/8	1	1						
27	1	171007-49400	ELBOW, PT3/8-8	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						

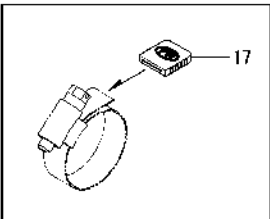
N:Old $\xrightarrow[\text{NO}]{\text{YES}}$ New, Q:Old $\xrightarrow[\text{NO}]{\text{YES}}$ New, R:Old $\xrightarrow[\text{YES}]{\text{NO}}$ New, S:Old $\xrightarrow[\text{NO}]{\text{YES}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.18. INTER COOLER

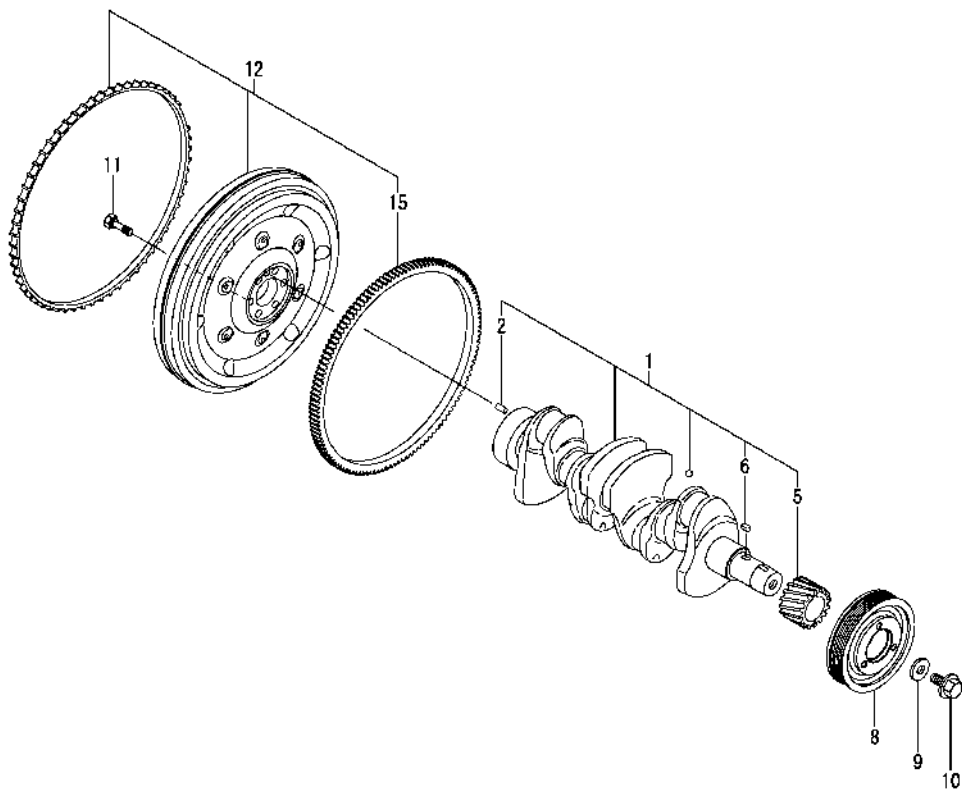


										OCF50-M00091		Fig.18	
										(A)=4JH80		(D)=	
										(B)=4JH110		(E)=	
										(C)=		(F)=	
No.	Lev.	Parts No.	Description	Q'ty						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	129672-18110	HEATER ASSY, COOLER	1	1								
3	2	129672-18130	COVER, INLET SIDE	1	1								
4	2	129672-18140	COVER, OUTLET	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								

[illegible]

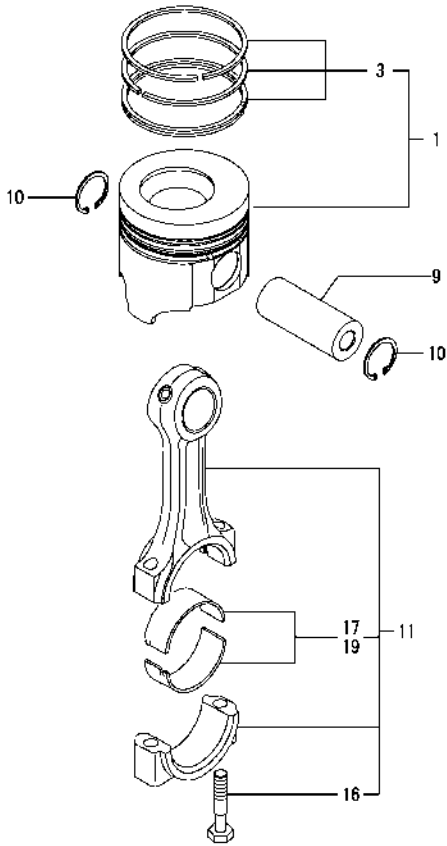
(1) Attached to the ends of No.9 & 10 hose clamps.

Fig.20. CRANKSHAFT & FLYWHEEL



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	Q'ty (C)	(D)	(E)	(F)		
1	1	129698-21001	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PIN, PARALLEL 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, 14	1	1						
10	1	121850-21680	BOLT, V-PULLEY	1	1						
11	1	121111-21501	BOLT, FLYWHEEL	6	6						
12	1	129677-21581	FLYWHEEL ASSY	1	1						
15	2	124550-21600	GEAR, RING Z=127	1	1						

Fig.21. PISTON & CONNECTING ROD

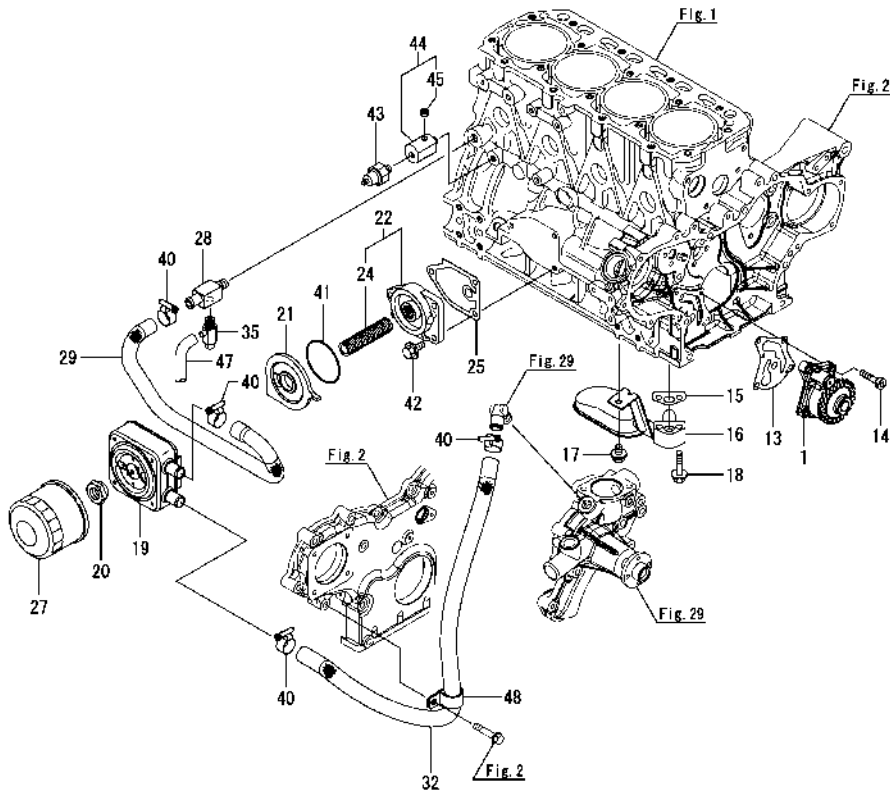


(A)=4JH80
(B)=4JH110
(C)=
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-22000	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	METAL ASSY,CRANK PIN	4	4						
19	1	129150-23611	METAL, CRANK PIN .25	4	4						1

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

Fig.22. LUB. OIL SYSTEM



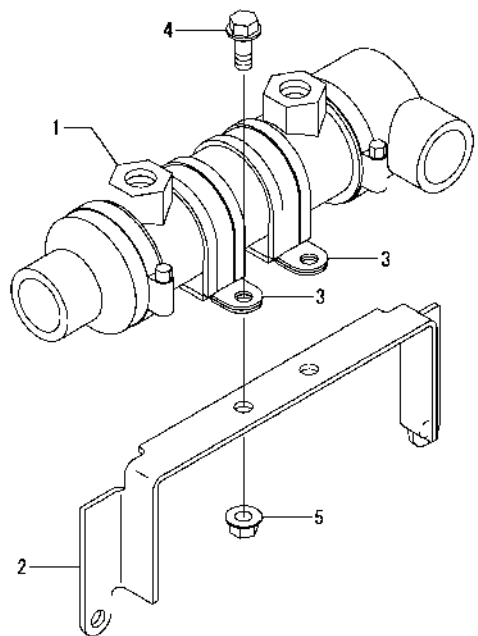
(A)=4JH80
(B)=4JH110
(C)=

(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, INLET PIPE	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, OIL COOLER M20	1	1						
21	1	129C01-33100	BRACKET, COOLER	1	1						
22	1	129648-35100	BRACKET ASSY, FILTER	1	1						
24	2	129648-35150	STUD	1	1						
25	1	129150-35111	GASKET, BRACKET	1	1						
27	1	129150-35153	FILTER ASSY, D80X80L	1	1						1
27-1	1	129150-35170	FILTER ASSY, D80X80L	1	1					R	2
28	1	129006-44480	JOINT, R02	1	1						
29	1	129677-49220	HOSE ASSY, COOLER IN	1	1						
32	1	129677-49250	HOSE ASSY,COOLER OUT	1	1						
35	1	119620-49290	COCK ASSY, 1/4	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, HYDRAULIC	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						

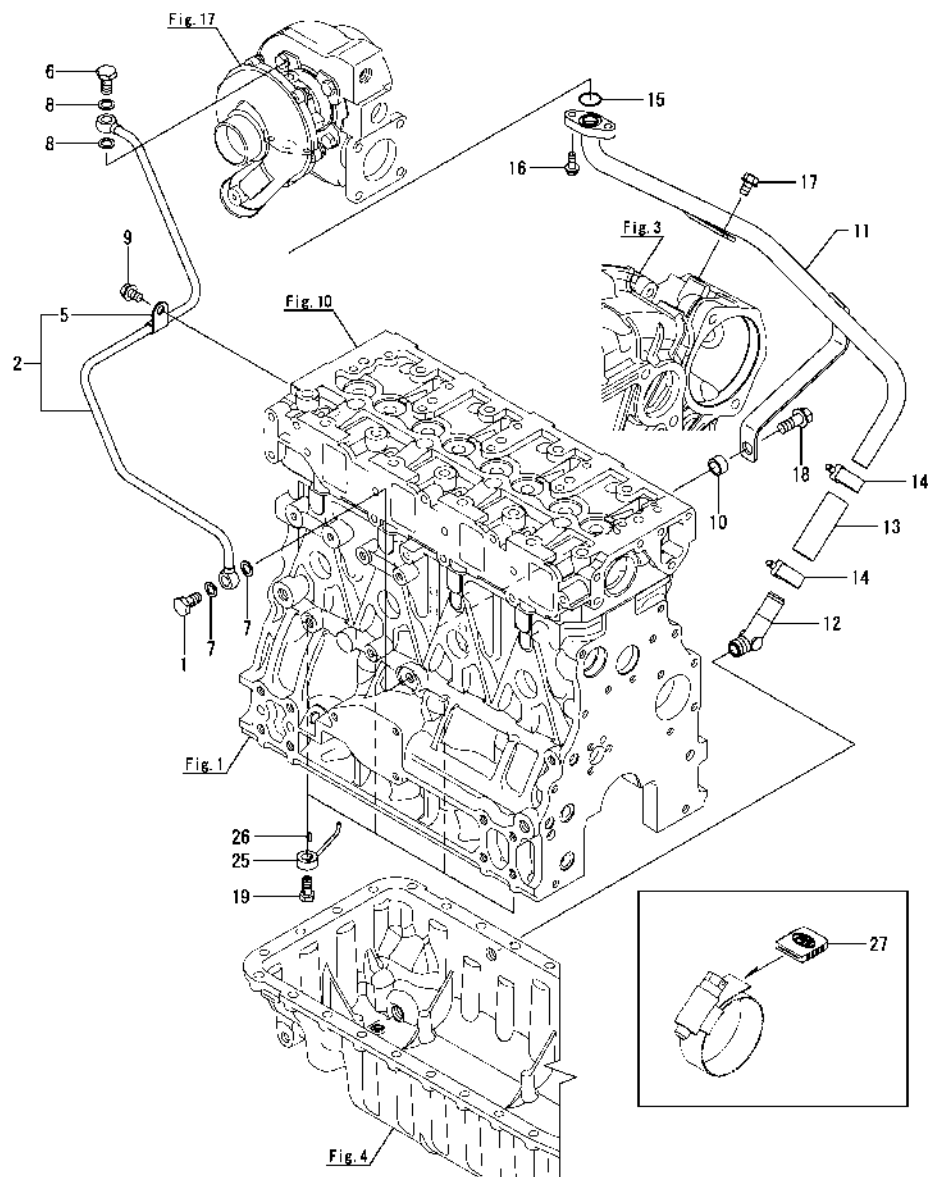
Remarks
(1)Non-branded filter(without Yanmar logo).
(2)Branded filter(with Yanmar logo).

Fig.67. (22A)LUB. OIL COOLER(FOR KMH50V)



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129677-33900	COOLER ASSY, OIL MG		1				
2	1	129677-33920	BRACKET, LO COOLER		1				
3	1	129677-33930	CLAMP, LO COOLER		2				
4	1	26106-080202	BOLT, M8X 20 PLATED		2				
5	1	26366-080002	NUT, M8		2				

Fig.23. LUB. OIL PIPE



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	124160-39140	BOLT, PIPE JOINT M10	1	1					
2	1	129677-39400	PIPE ASSY, OIL INLET	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 RETURN	1	1					
12	1	129472-39620	ELBOW, PT3/8	1	1					
13	1	123901-39820	HOSE, OIL RETURN	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, COOLING	4	4					
26	1	22351-030010	PIN, SPRING 3.0X10	4	4					
27	1	129677-49950	PROTECTOR,HOSE CLAMP	2	2					
(A)=E51201)		(B)=E51210)								W 1

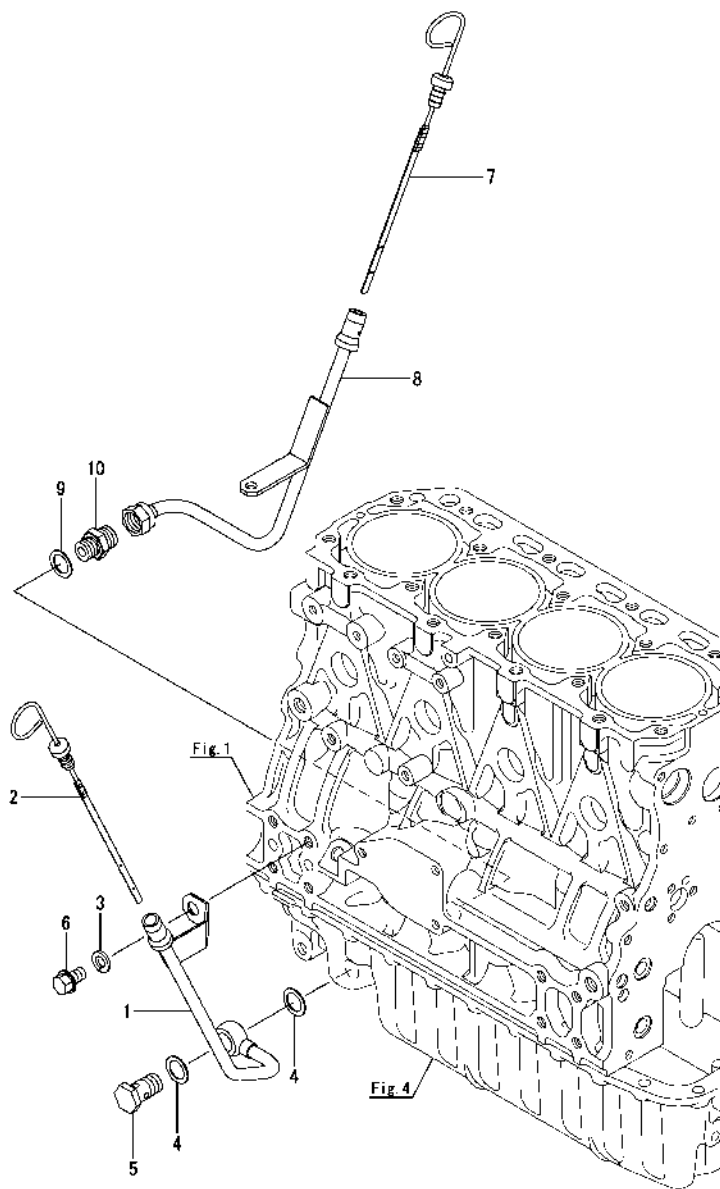
Remarks

(1)Attached to the ends of No.14 hose clamps.

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:Qty Change

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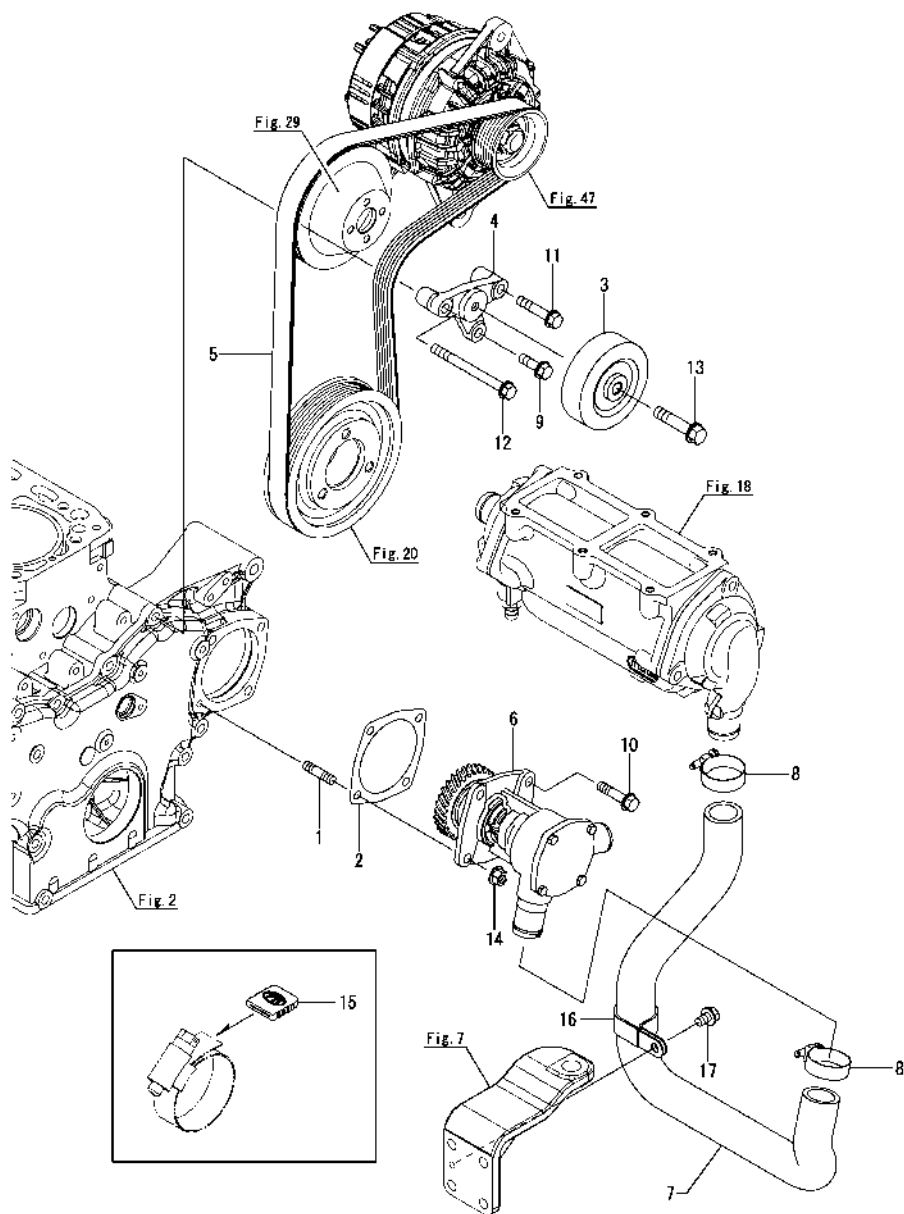
Fig.24. DIPSTICK



				(A)=4JH80 (B)=4JH110 (C)=	(D)= (E)= (F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I R
1	1	129677-34800	GUIDE, DIPSTICK	1	1					
2	1	129677-34850	DIPSTICK ASSY, OIL	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, 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

Remarks
(1)Optional parts.

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



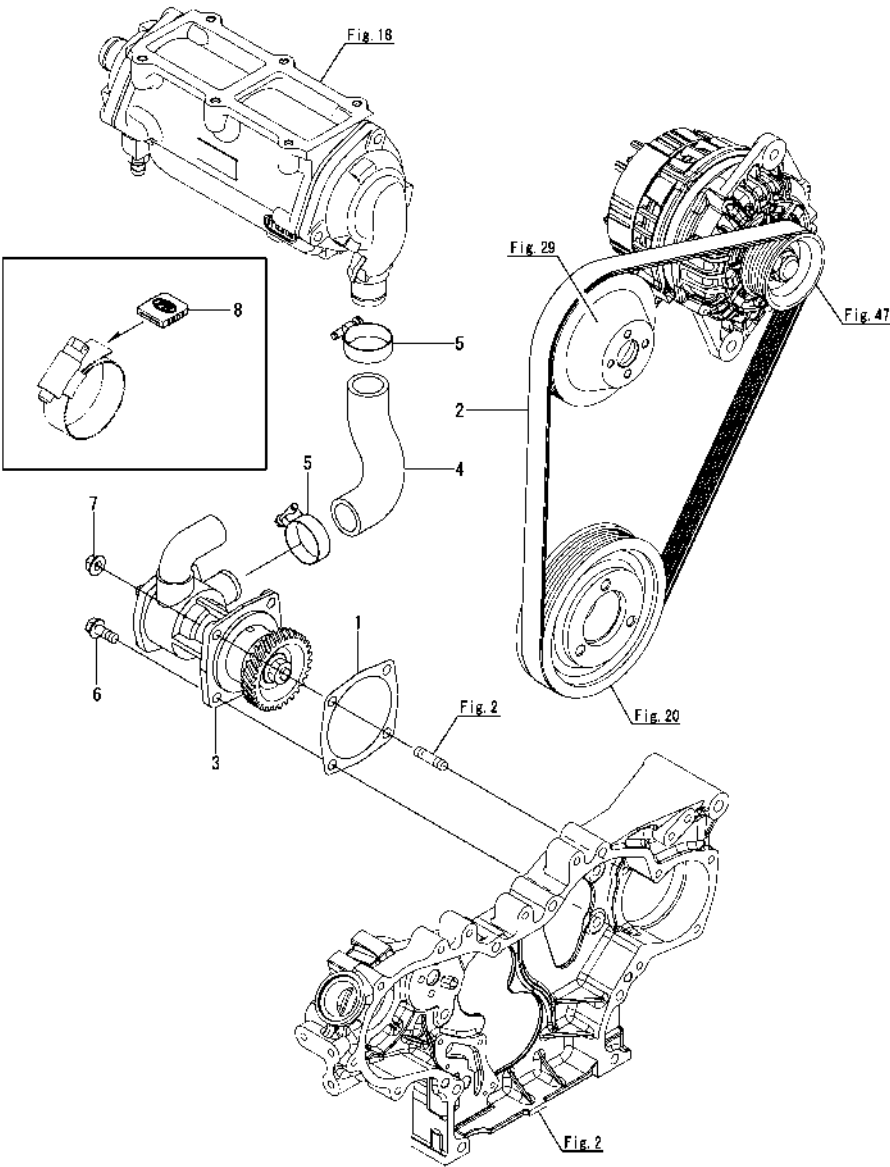
- (1) Inner parts are shown in Fig.27.
- (2) Attached to the ends of No.8 hose clamps.

(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	BOLT, PUMP M8X22	1	1						
2	1	129150-01881	GASKET, PUMP COVER	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-RIBBED	1	1						
6	1	129271-42502	PUMP ASSY, WATER	1	1						1
7	1	129677-49030	HOSE, COOLER INLET	1	1						
8	1	129670-49500	CLIP, HOSE 38	2	2						
9	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
10	1	26106-080352	BOLT, M8X 35 PLATED	3	3						
11	1	26106-080402	BOLT, M8X 40 PLATED	1	1						
12	1	26106-080902	BOLT, M8X 90 PLATED	1	1						
13	1	26106-100452	BOLT, M10X 45 PLATED	1	1						
14	1	26366-080002	NUT, M8	1	1						
15	1	129677-49950	PROTECTOR,HOSE CLAMP	2	2						W 2
16	(A=E51201) 1	(B=E51210) 129675-49120	RETAINER, HOSE	1	1						W
17	(A=*2017.11.) 1	(B=*2017.11.) 26106-080122	BOLT, M8X 12 PLATED	1	1						W

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



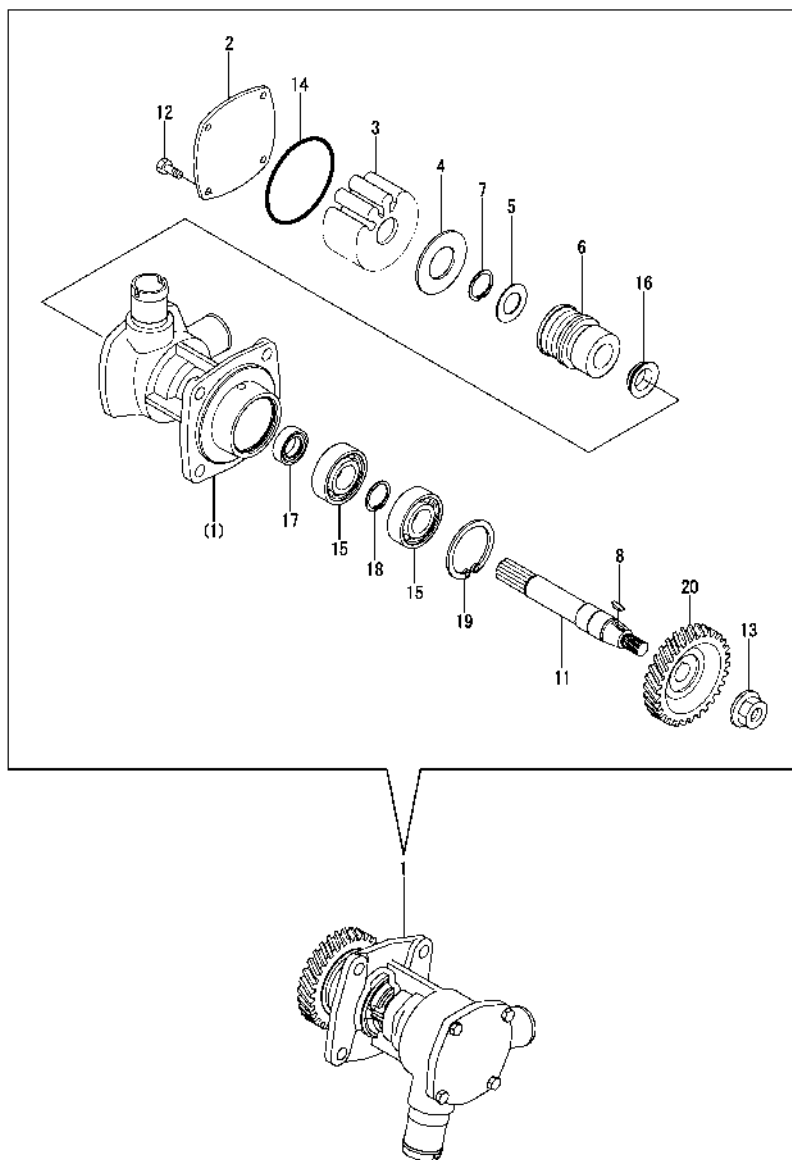
Remarks
(1)Inner parts are shown in Fig.28.
(2)Attached to the ends of No.5 hose clamps.

OCF50-M00091 Fig.26

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-01881	GASKET, PUMP COVER	1	1						
2	1	129677-42280	BELT, V-RIBBED	1	1						
3	1	129670-42513	PUMP ASSY, WATER	1	1						1
4	1	129672-49060	PIPE, COOLER INLET	1	1						
5	1	129670-49500	CLIP, HOSE 38	2	2						
6	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
7	1	26366-080002	NUT, M8	1	1						
8	1	129677-49950	PROTECTOR,HOSE CLAMP	2	2					W	2
		(A=E51201)	(B=E51210)								

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

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

[illegible]

Remarks
(1)Not illustrated(Include No.2, 4, 5, 6, 7 & 14).
(2)Not illustrated(Include No.8, 11, 13, 15, 16, 17, 18 & 19).
(3)Not illustrated(Include No.3, 12 & 14).

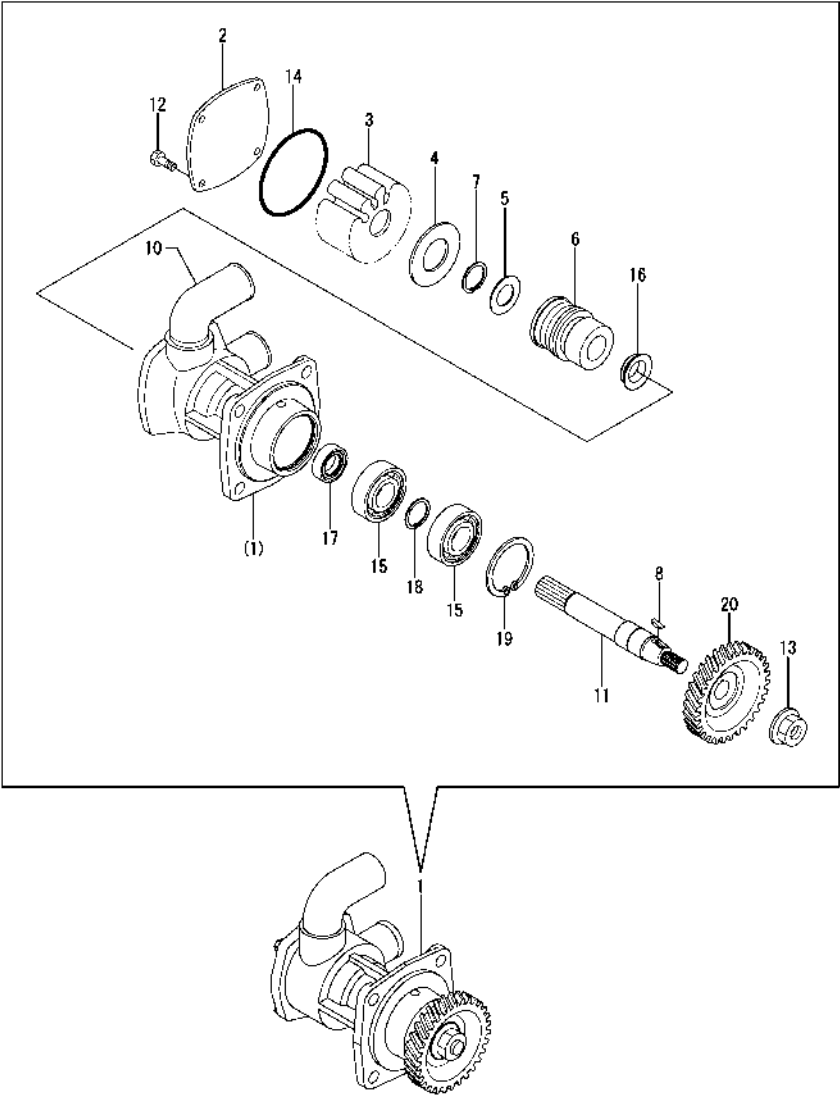
N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Qty Change

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

OCF50-M00091 Fig.28

(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, WATER	1	1						
2	2	129670-42520	COVER, END	1	1						
3	2	129670-42531	IMPELLER, PUMP	1	1						
4	2	129670-42540	PLATE, WEAR	1	1						
5	2	129670-42550	WASHER	1	1						
6	2	129670-42560	SEAL, MECHANICAL	1	1						
7	2	129670-42570	RING, RETAINING	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	RING, RETAINING	1	1						
19	2	120650-42350	RING, RETAINING	1	1						
20	2	129670-42700	GEAR, PUMP	1	1						
21	2	129670-42590	WEAR KIT	1	1					W	1
		(A=E51216) (B=E51211)									
28	2	129670-42600	SHAFT KIT	1	1					W	2
		(A=E51216) (B=E51211)									
37	2	129670-42610	IMPELLER KIT	1	1					W	3
		(A=E51216) (B=E51211)									

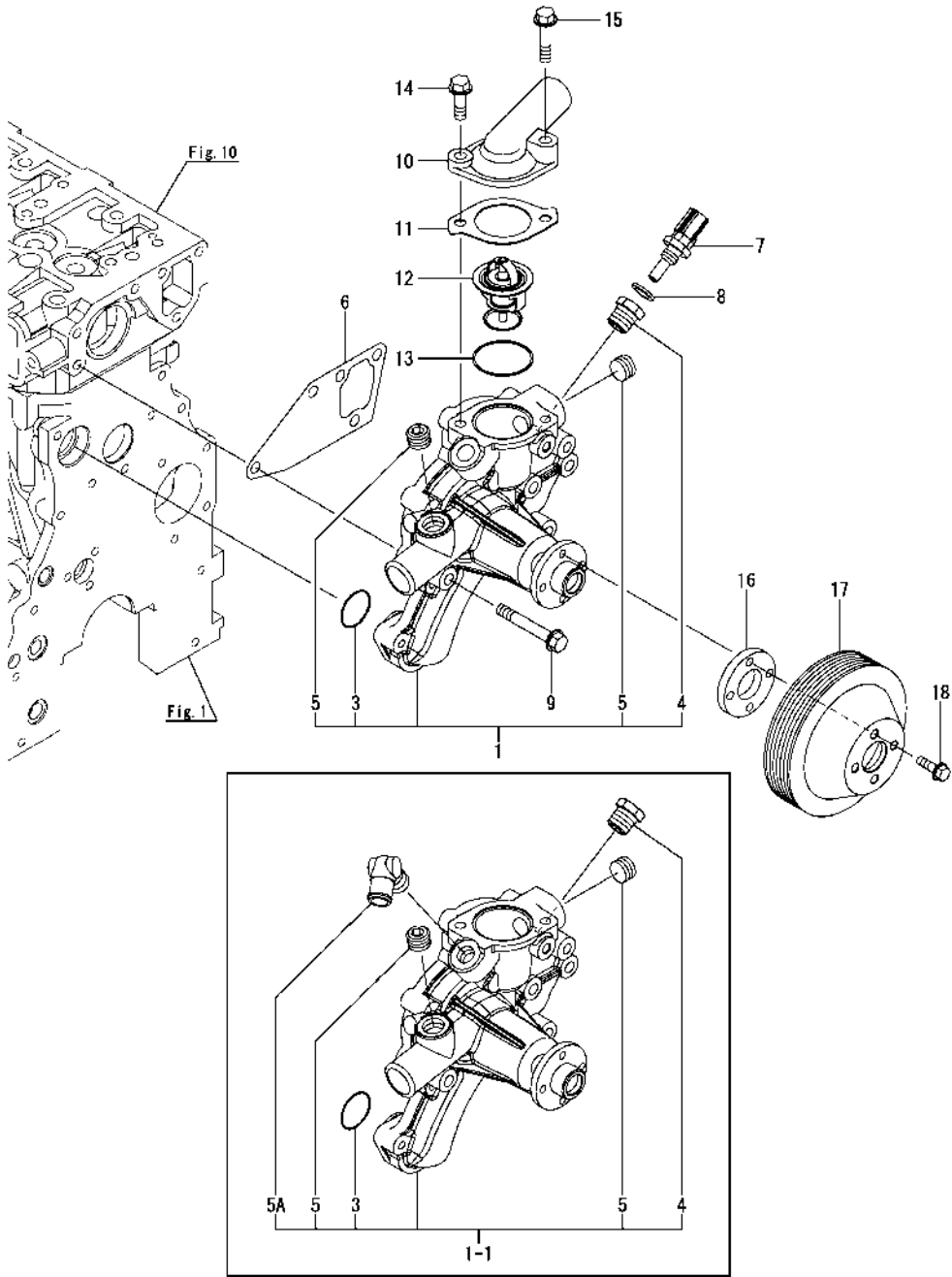
Remarks

(1)Not illustrated(Include No.2, 4, 5, 6, 7 & 14).

(2)Not illustrated(Include No.8, 11, 13, 15, 16, 17, 18 & 19).

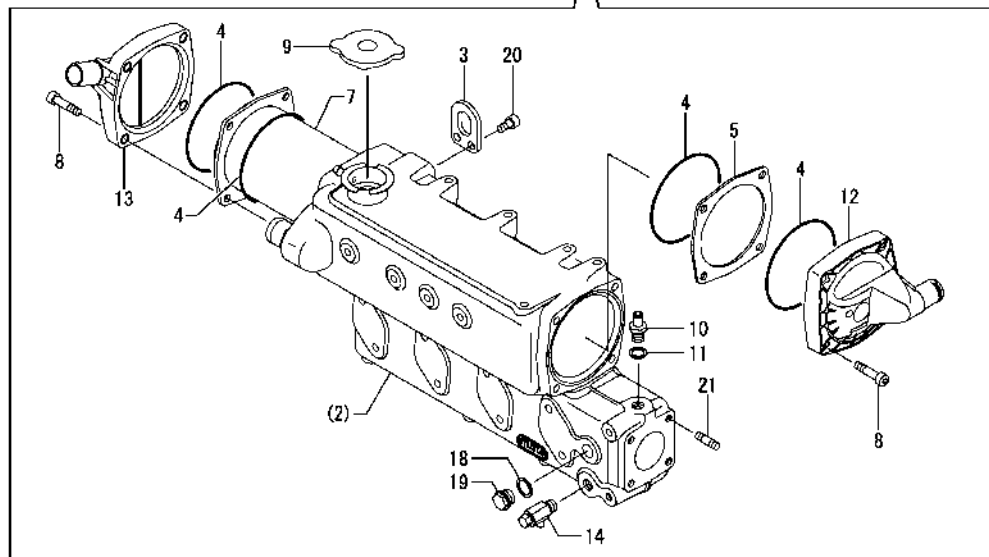
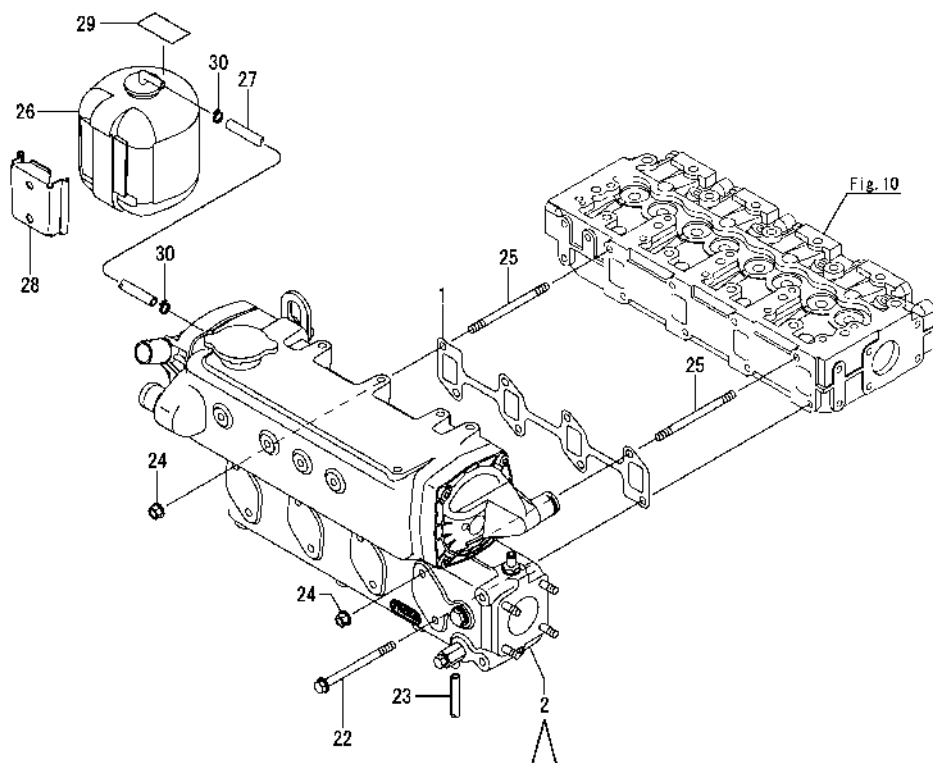
(3)Not illustrated(Include No.3, 12 & 14).

Fig.29. COOLING PUMP(FRESH WATER)



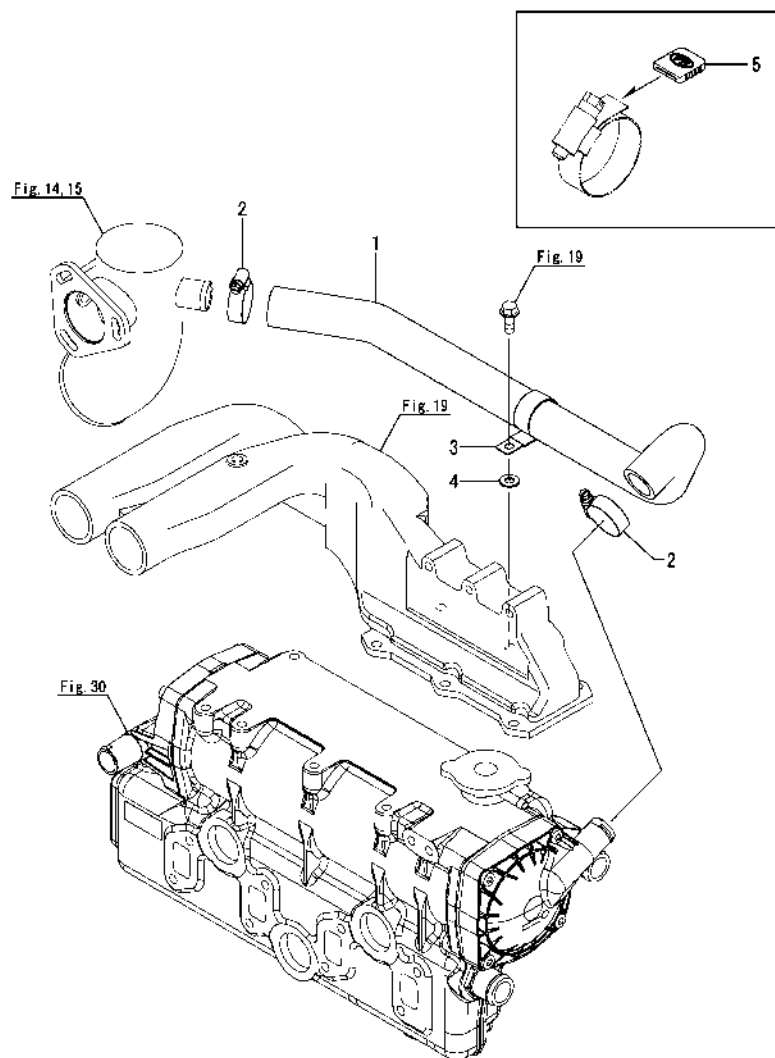
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-42000	PUMP ASSY, WATER	1	1						
1-1	1	129677-42001	PUMP ASSY, CW	1	1						N
		(A=E51897) (B=E51897)									
3	2	129054-42320	O-RING	1	1						
4	2	129263-49350	JOINT, SENSOR	1	1						
5	2	129916-49740	PLUG, R3/8	2	2						
5A	2	129051-49310	ELBOW, PT3/8	1	1						W
		(A=E51897) (B=E51897)									
6	1	129486-42050	GASKET, WATER PUMP	1	1						
7	1	129927-44900	SENSOR, TEMPERATURE	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, COVER	1	1						
12	1	129470-49801	THERMOSTAT, 76.5C	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, PUMP 6PK	1	1						
17-1	1	129271-42351	PULLEY, PUMP 6PK	1	1						N
		(A=E50450) (B=E50562)									
18	1	26106-060202	BOLT, M6X 20 PLATED	4	4						

Fig.30. COOLER(FRESH WATER)



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129550-13110	GASKET, MANIFOLD	1	1				
2	1	129677-44000	COOLER ASSY, WATER	1	1				
3	2	129670-07230	LIFTER	1	1				
4	2	127677-33060	O-RING	4	4				
5	2	127677-33070	SPACER, COOLER	1	1				
7	2	129677-44020	CORE ASSY, COOLER	1	1				
8	2	129673-44090	BOLT, M8X40	8	8				
9	2	129673-44131	CAP, FILLER	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, COOLER INLET	1	1				
13	2	129677-44970	BONNET, COOLER 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, M8X20	4	4				
22	1	129677-44300	BOLT, M8X105 9.8	6	6				
23	1	23061-070300	PIPE, 7X 300	1	1				
24	1	26366-080002	NUT, M8	2	2				
25	1	129693-44300	BOLT, COOLER	2	2				
26	1	128397-44500	TANK ASSY, SUB	1	1				
27	1	129270-44501	PIPE, OVERFLOW	1	1				
28	1	128397-44510	BRACKET, SUB TANK	1	1				
29	1	129670-44570	LABEL, SUB TANK	1	1				
30	1	23010-013000	CLAMP 13	2	2				

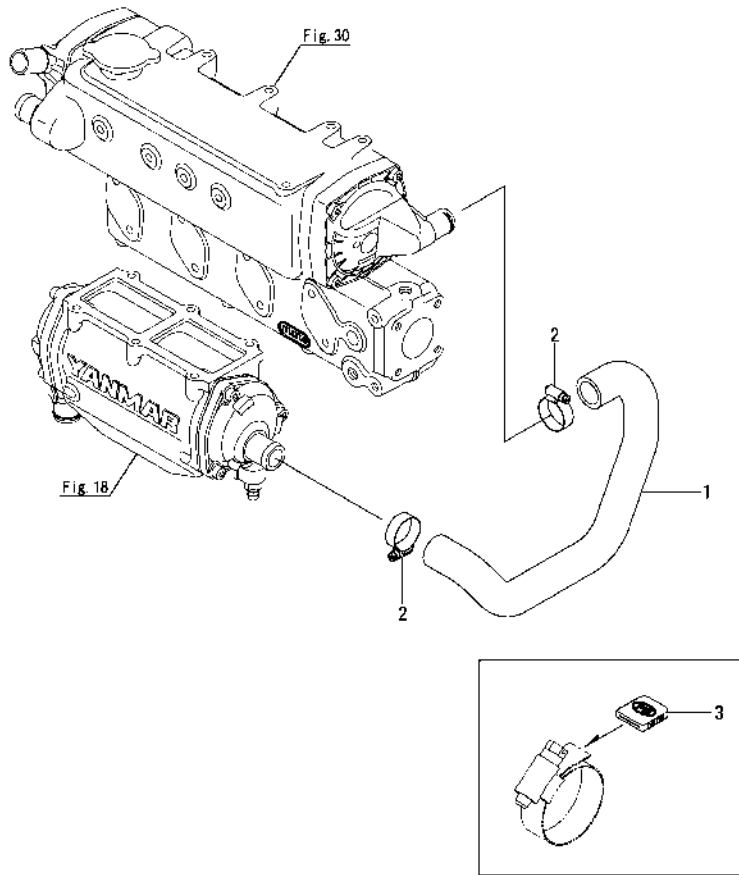
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-49070	HOSE, MIXING INLET	1	1						
2	1	129670-49500	CLIP, HOSE 38	2	2						
3	1	129928-79700	CLAMP, 150-M8	1	1						
4	1	22137-080000	WASHER, 8	1	1						
5	1	129677-49950	PROTECTOR,HOSE CLAMP	2	2					W	1
		(A=E51201)	(B=E51210)								



(1) Attached to the ends of No.2 hose clamps.

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

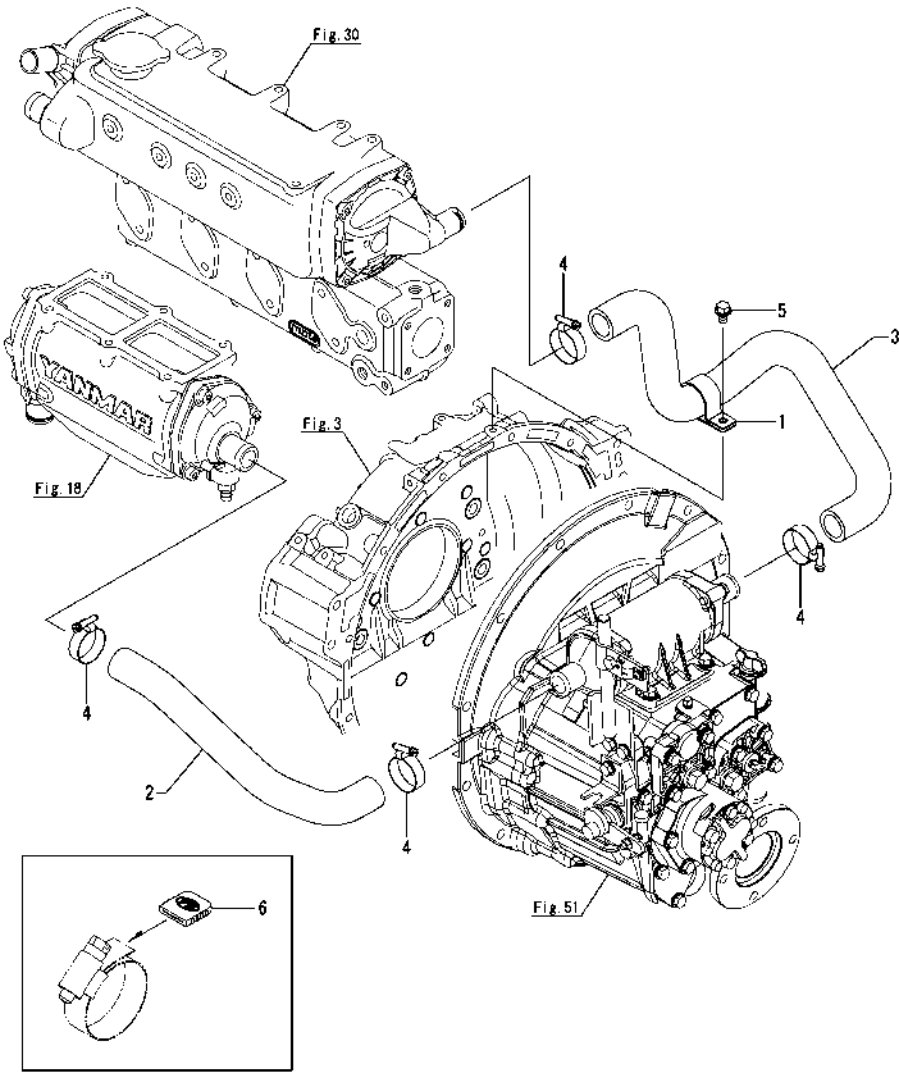
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-49010	HOSE, COOLER INLET	1	1						
2	1	129670-49500	CLIP, HOSE 38	2	2						
3	1	129677-49950	PROTECTOR,HOSE CLAMP	2	2					W	1

Remarks
(1)Attached to the ends of No.2 hose clamps.

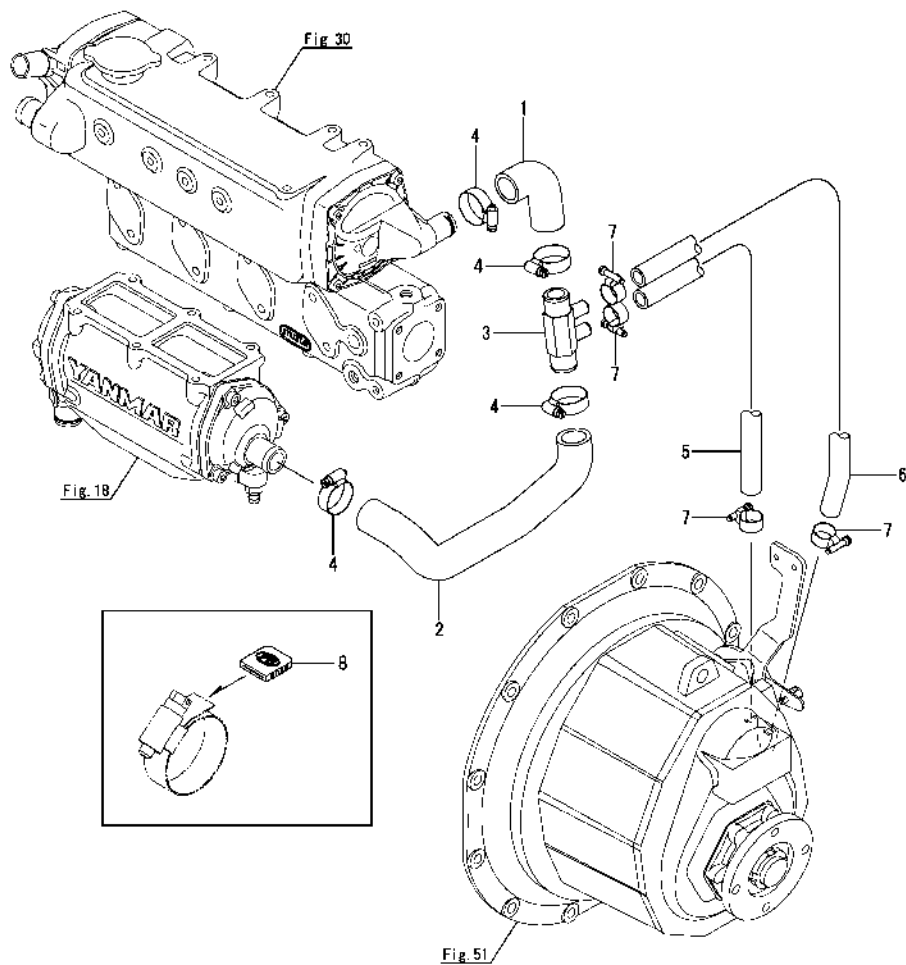
Fig.33. COOLING PIPE(SEA WATER)(FOR KMH4A)



OCF50-M00091 Fig.33

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, COOLER OUTLET	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						
6	1	129677-49950	PROTECTOR,HOSE CLAMP	4	4					W	1
		(A=E51201)	(B=E51210)								

Remarks
(1)Attached to the ends of No.4 hose clamps.



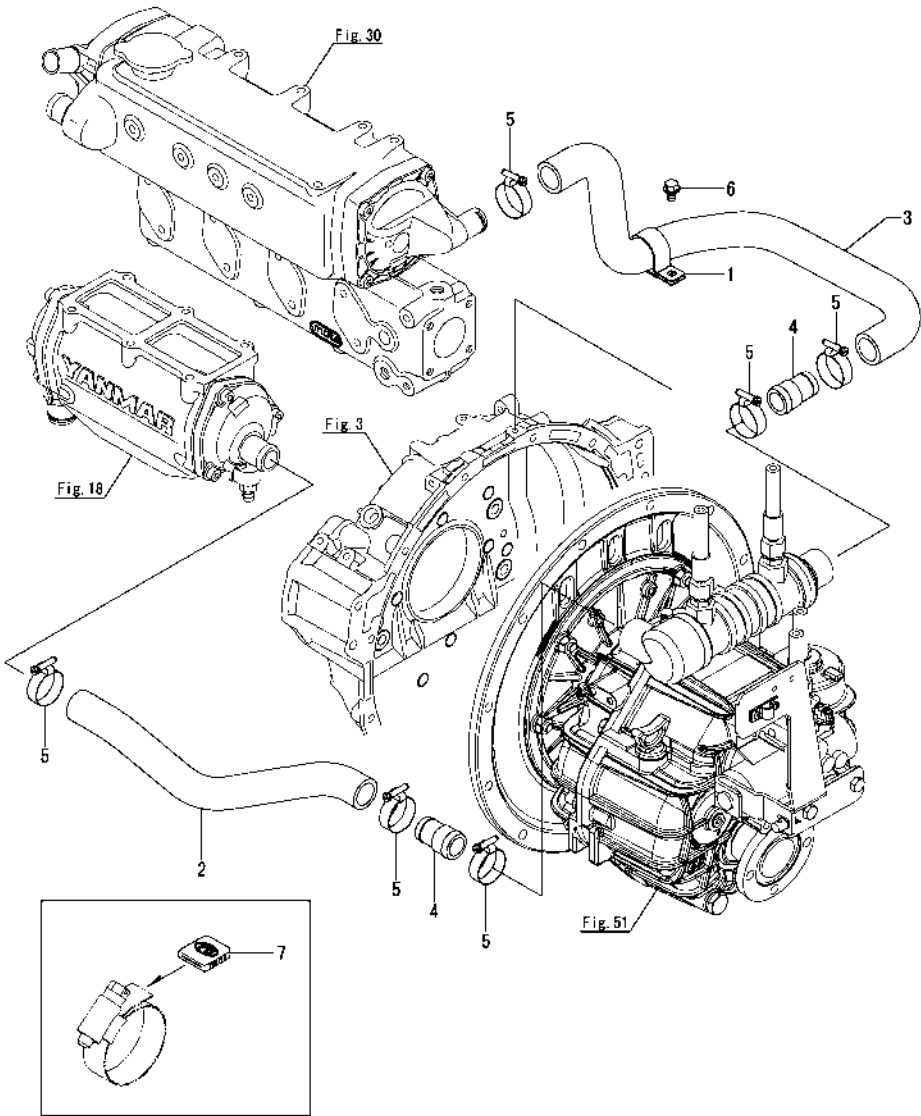
No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-49070	PIPE, SEA WATER	1	1						
1-1	1	129672-49030	PIPE, SEA WATER C	1	1						N
		(A=E50722)	(B=E50735)								
2	1	129677-49110	HOSE, COOLER OUTLET	1	1						
3	1	129670-49410	JOINT, SEA WATER A	1	1						
4	1	129670-49500	CLIP, HOSE 38	4	4						
5	1	129671-49230	PIPE, SEA WATER E	1	1						
6	1	129671-49240	PIPE, SEA WATER F	1	1						
7	1	23000-022000	CLAMP, 22	4	4						
8	1	129677-49950	PROTECTOR,HOSE CLAMP	8	8						W 1
		(A=E51201)	(B=E51210)								

Remarks
(1)Attached to the ends of No.4 & 7 hose clamps.

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

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Fig.35. COOLING PIPE(SEA WATER)(FOR ZF25, ZF25A)



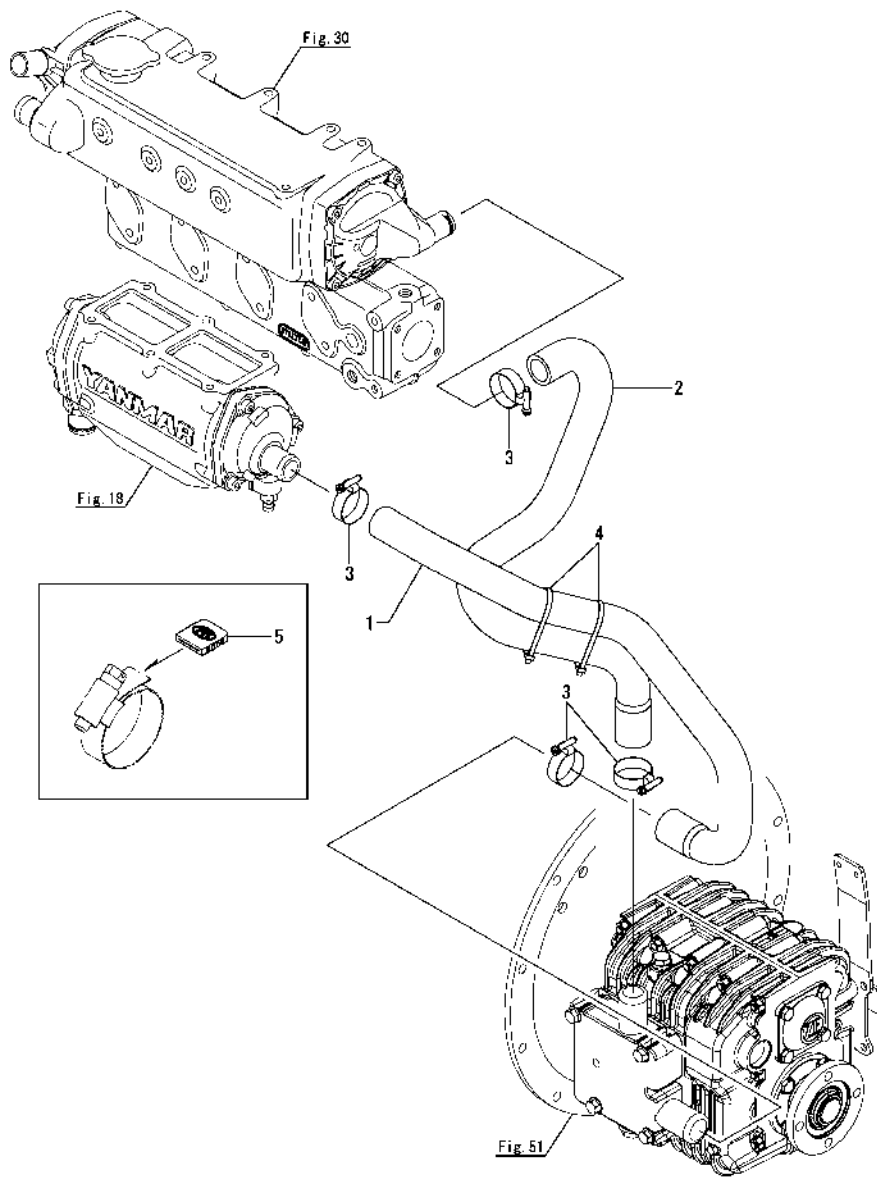
(A)=4JH80
(B)=4JH110
(C)=

(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, COOLER OUTLET	1	1						
3	1	129677-49140	HOSE, SW HX-IN GEAR	1	1						
4	1	129673-49410	JOINT, SEA WATER	2	2						
5	1	129670-49500	CLIP, HOSE 38	6	6						
6	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
7	1	129677-49950	PROTECTOR,HOSE CLAMP	6	6					W	1
		(A=E51201) (B=E51210)									

Remarks
(1)Attached to the ends of No.5 hose clamps.

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



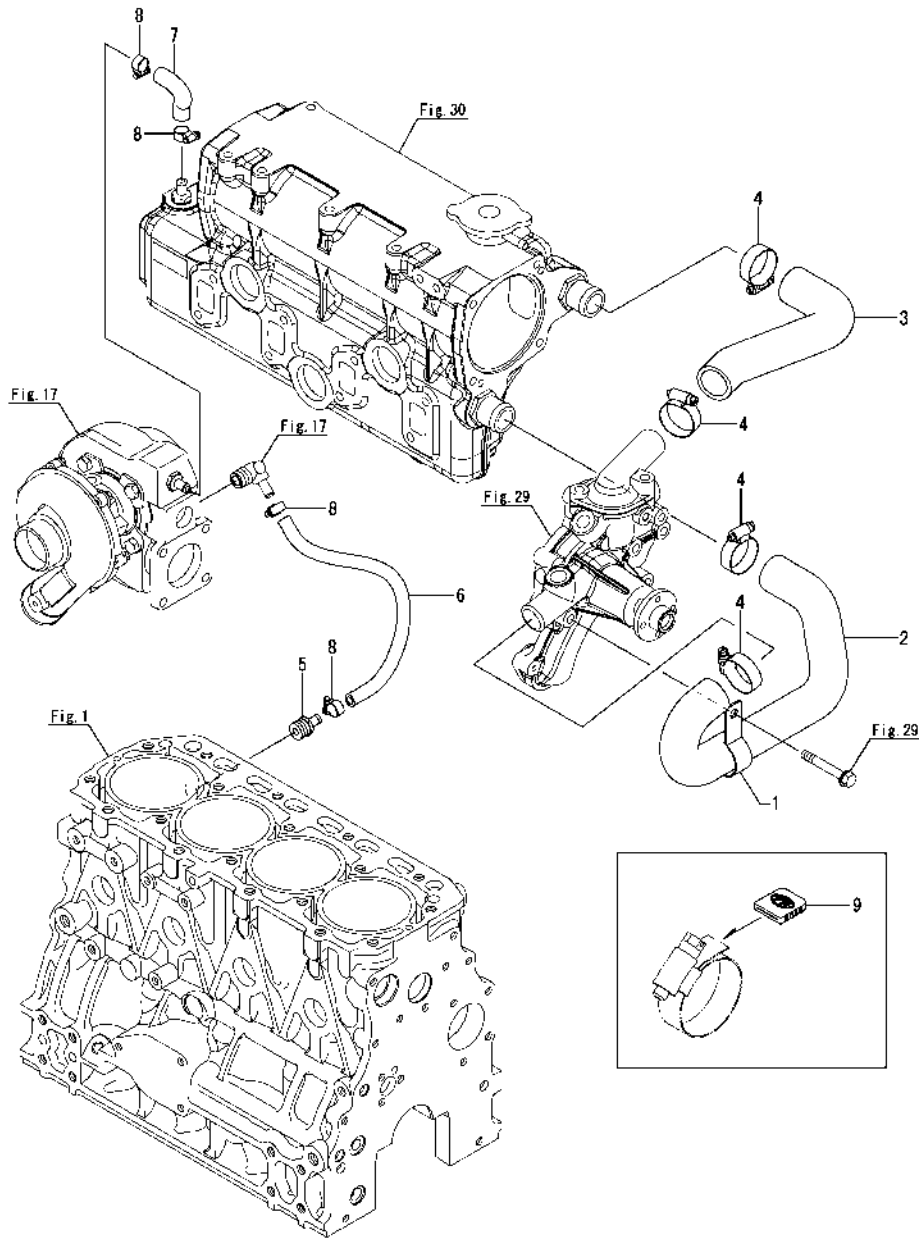
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-49150	HOSE, COOLER OUTLET	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						
5	1	129677-49950	PROTECTOR,HOSE CLAMP	4	4					W	1
		(A=E51201)	(B=E51210)								

Remarks
(1)Attached to the ends of No.3 hose clamps.

Fig.37. COOLING PIPE(FRESH WATER)



Remarks
(1)Attached to the ends of No.4 hose clamps.

OCF50-M00091 Fig.37

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, FRESH WATER B	1	1						
3	1	129672-49260	PIPE, FRESH WATER C	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, TURBINE INLET	1	1						
7	1	129677-49420	HOSE, TURBINE OUTLET	1	1						
8	1	23000-013000	CLAMP, 13	4	4						
9	1	129677-49950	PROTECTOR,HOSE CLAMP	4	4						
		(A=E51201)	(B=E51210)							W	1

[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						
1-1	1	129C28-51000	PUMP ASSY, FUEL	1	1						N
		(A=E53255)	(B=E53255)								
2	2	129A00-51100	VALVE ASSY	1	1						
3	3	129A00-51110	RING, SEAL	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						

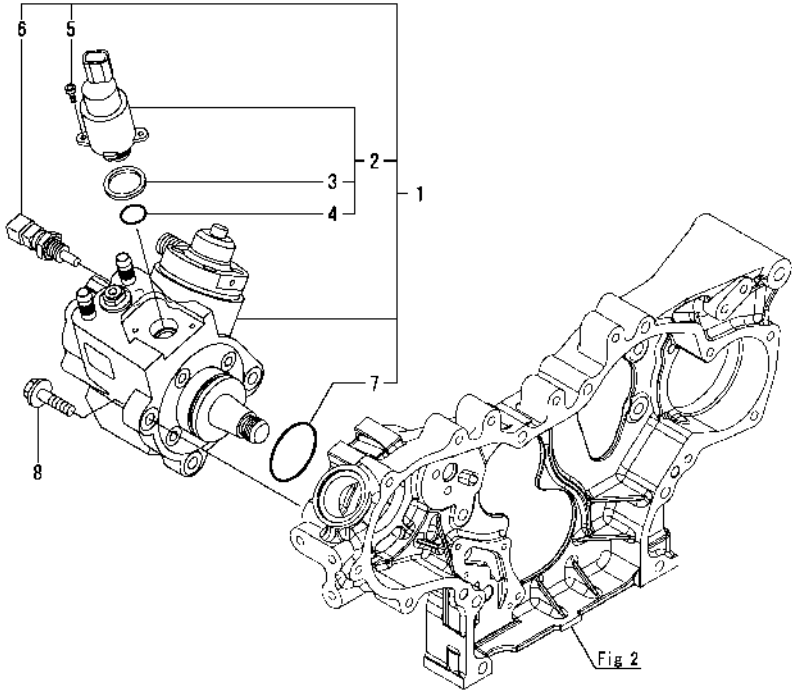
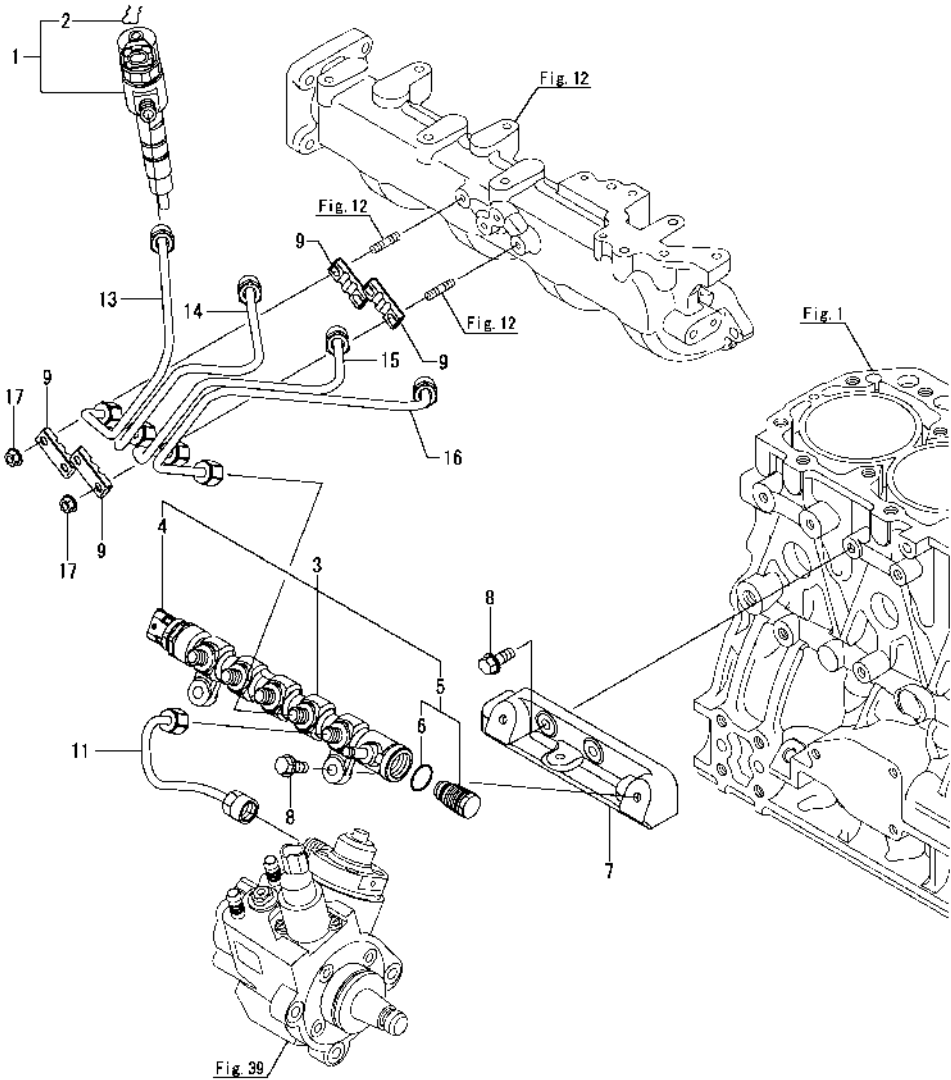


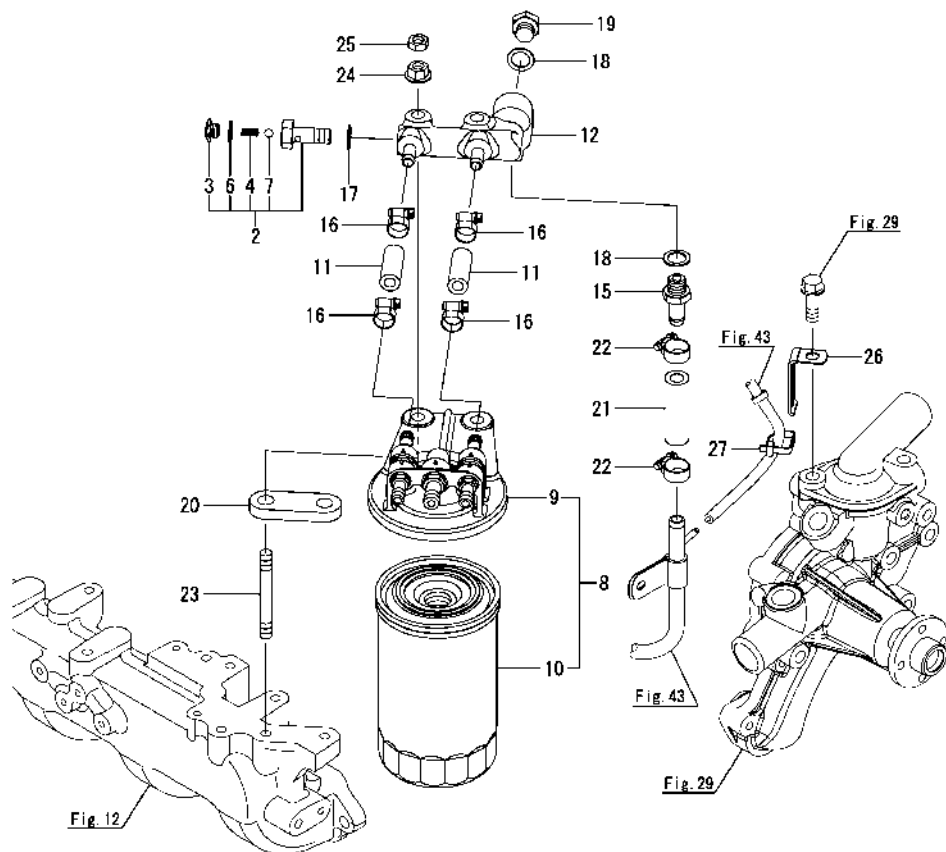
Fig.40. FUEL INJECTION VALVE & FUEL INJECTION PIPE

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

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

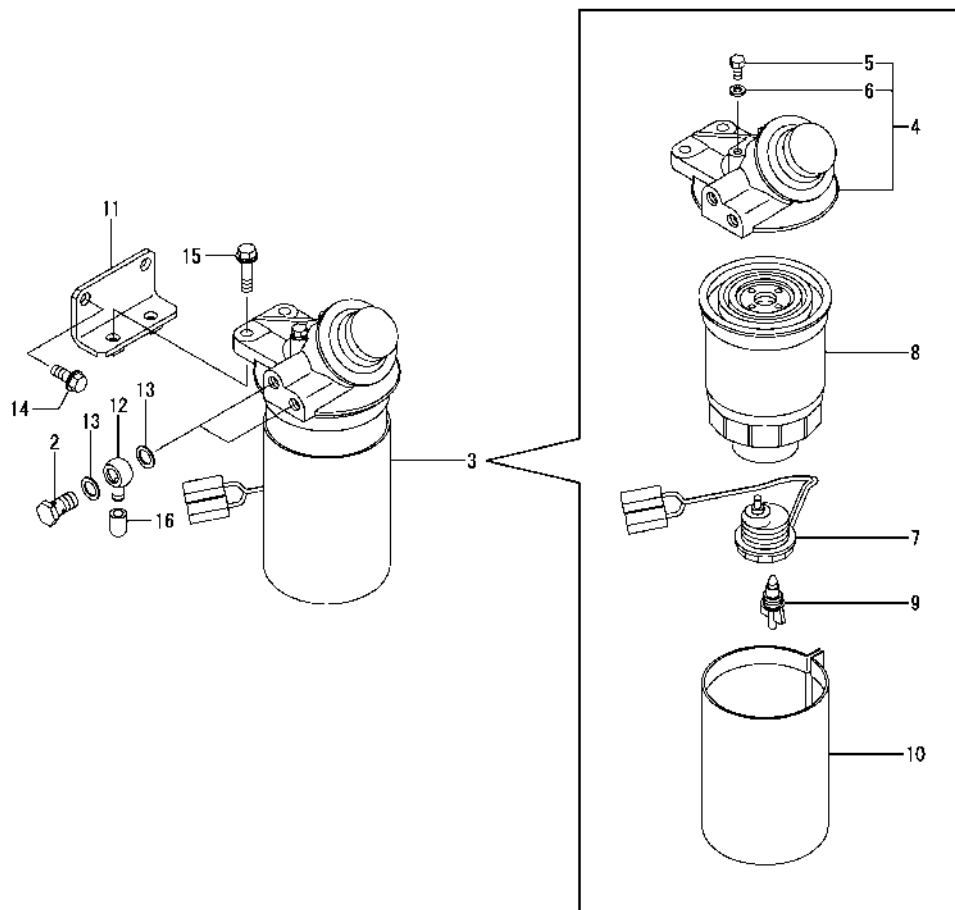
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-53100	INJECTOR, CR	4	4						
2	2	129A00-53200	RING, RETAINING	4	4						
3	1	129C00-57000	COMMON RAIL ASSY	1	1						
4	2	129A00-57100	SENSOR, PRESSURE	1	1						
5	2	129A00-57200	VALVE ASSY, PLV4	1	1						
6	3	129A00-57210	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, PIPE	4	4						
11	1	129677-59700	PIPE ASSY, RAIL IN	1	1						
13	1	129677-59810	PIPE, INJECTION NO.1	1	1						
14	1	129677-59820	PIPE, INJECTION NO.2	1	1						
15	1	129677-59830	PIPE, INJECTION NO.3	1	1						
16	1	129677-59840	PIPE, INJECTION NO.4	1	1						
17	1	26366-060002	NUT, M6	4	4						





No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	119187-39700	VALVE ASSY, CHECK	1	1						
3	2	127610-39350	RETAINER, SPRING	1	1						
4	2	127687-39360	SPRING, NOZZLE	1	1						
6	2	23414-100014	GASKET, 10X1.0	1	1						
7	2	24190-070001	BALL, STEEL 7/32	1	1						
8	1	129677-55600	FILTER ASSY, FUEL	1	1						
9	2	129677-55610	BRACKET ASSY,FO FILT	1	1						
10	2	129A00-55800	FILTER, FUEL	1	1						
11	1	129677-59240	HOSE, FUEL RETURN	2	2						
12	1	129677-59300	HOUSING ASSY, VALVE	1	1						
15	1	129677-59350	JOINT, HOSE 10-M12	1	1						
16	1	23000-013000	CLAMP, 13	4	4						
17	1	23414-100000	GASKET, 10X1.0	1	1						
18	1	23414-120000	GASKET, 12X1.0	2	2						
18-1	1	22190-120002	WASHER, SEAL 12	2	2						N
(A=*2017.11.)		(B=*2017.11.)									
19	1	23887-120002	PLUG, 12	1	1						
20	1	129670-55700	RUBBER	1	1						
21	1	129677-59220	HOSE, FUEL RETURN	1	1						
22	1	23000-016000	CLAMP, 16	2	2						
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	194440-51620	CLAMP, B	1	1						Z
(A=*2014.12.)		(B=*2014.12.)									
27	1	29621-200001	BAND, TR200	1	1						Z
(A=*2014.12.)		(B=*2014.12.)									

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



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
2	1	194256-04820	BOLT, JOINT M6	2	2				
3	1	119172-55800	FILTER ASSY, FUEL	1	1				
3-1	1	119172-55801	F.O. FILTER ASSY	1	1				N
		(A=E50718) (B=E50711)							
4	2	121857-55630	BODY ASSY, STRAINER	1	1				
5	3	121857-55750	PLUG	1	1				
6	3	121857-55760	WASHER	1	1				
7	2	121857-55730	SENSOR ASSY	1	1				
8	2	121857-55710	FILTER, FUEL	1	1				
9	2	121857-55740	PLUG	1	1				
10	2	119172-55810	CASE KIT, FILTER	1	1				
10-1	2	119172-55811	CASE KIT, FO FILETR	1	1				N
		(A=E50718) (B=E50711)							
11	1	129677-55850	BRACKET, FILTER	1	1				
12	1	101304-59020	JOINT, PIPE 12	2	2				
13	1	22190-120002	WASHER, SEAL 12	4	4				
14	1	26106-080202	BOLT, M8X 20 PLATED	2	2				
15	1	26106-080302	BOLT, M8X 30 PLATED	2	2				
16	1	128990-59900	CAP, FUEL IN/OUT	2	2				W
		(A=E50718) (B=E50711)							

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

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

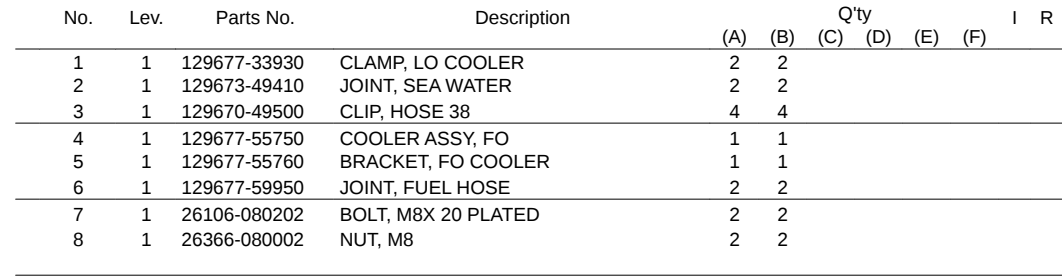
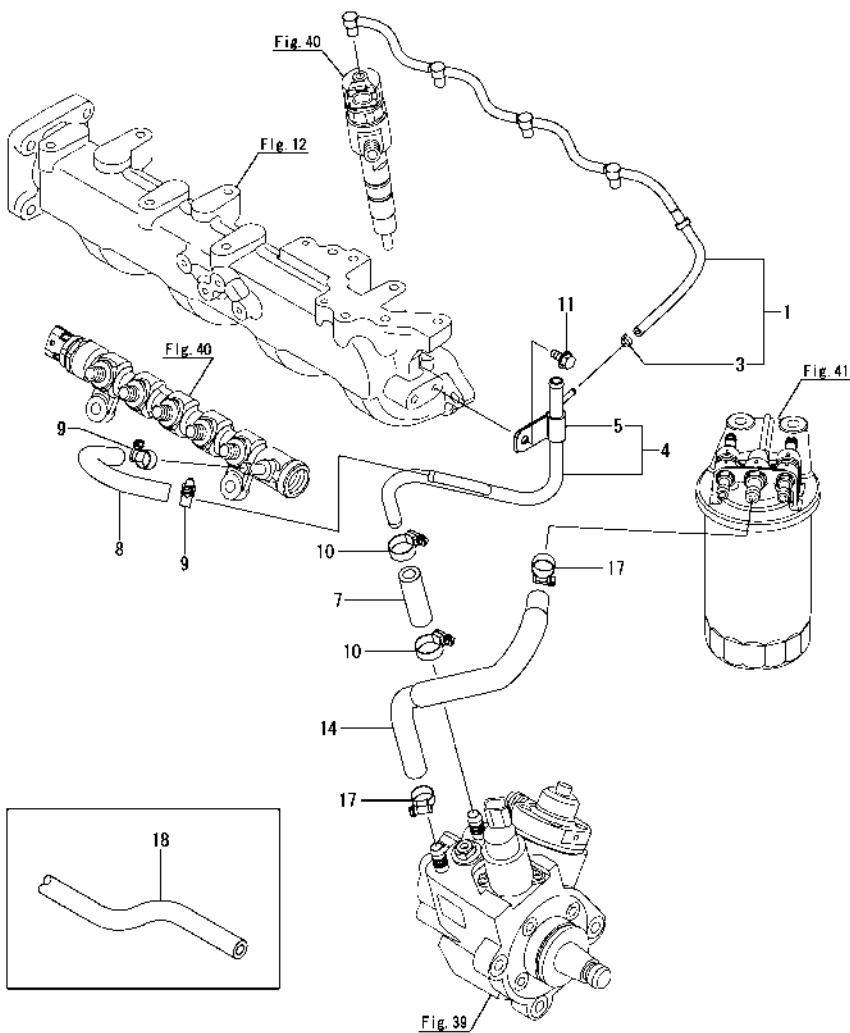


Fig.43. FUEL PIPE



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

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

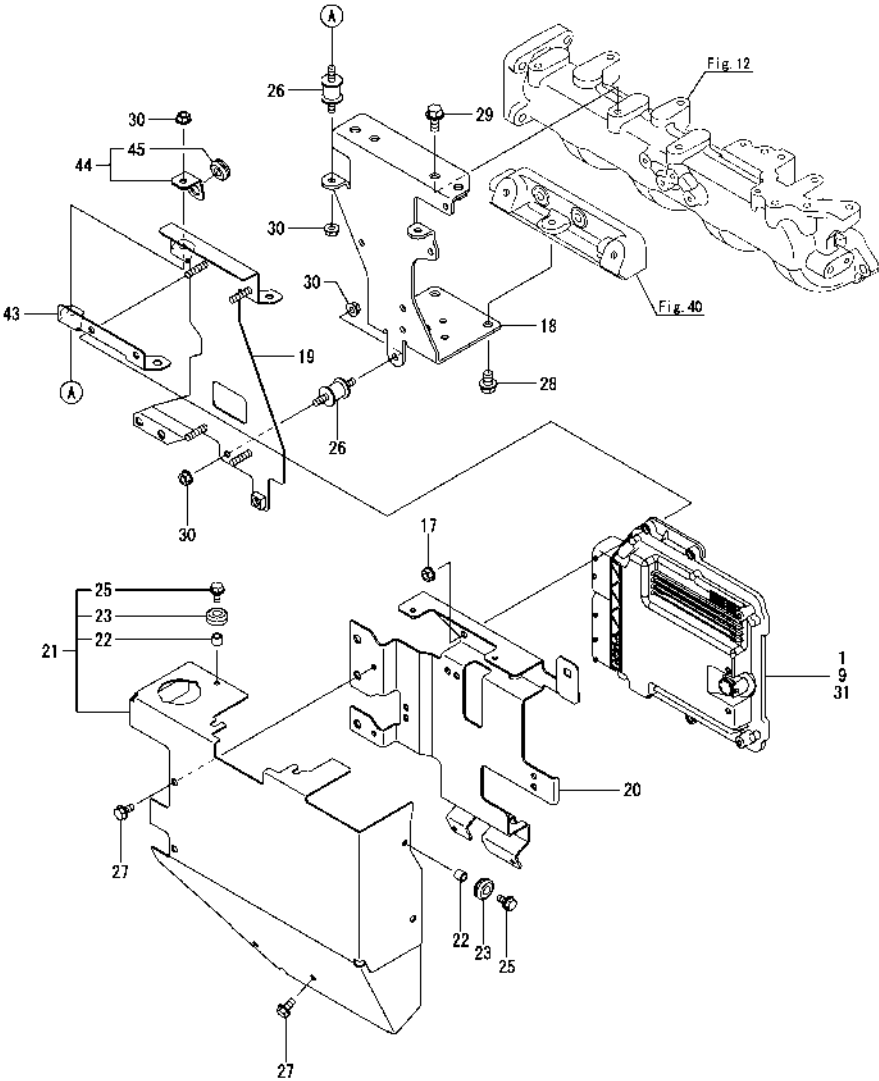
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-59500	PIPE ASSY, RETURN	1	1						
1-1	1	129677-59501	PIPE ASSY, RETURN	1	1						N
		(A=E50247) (B=E50247)									
3	2	23080-007000	CLAMP, 7	1	1						
4	1	129677-59090	PIPE ASSY, RETURN	1	1						
5	2	119802-49730	RETAINER, PIPE	1	1						
7	1	129677-59220	HOSE, FUEL RETURN	1	1						
8	1	129677-59230	HOSE, FUEL 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						
14-1	1	129677-59011	HOSE ASSY, FUEL	1	1						N
		(A=E50450) (B=E50562)									
17	1	23000-016000	CLAMP, 16	2	2						
18	1	129677-59400	HOSE, FUEL L=6000	1	1						1

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

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

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

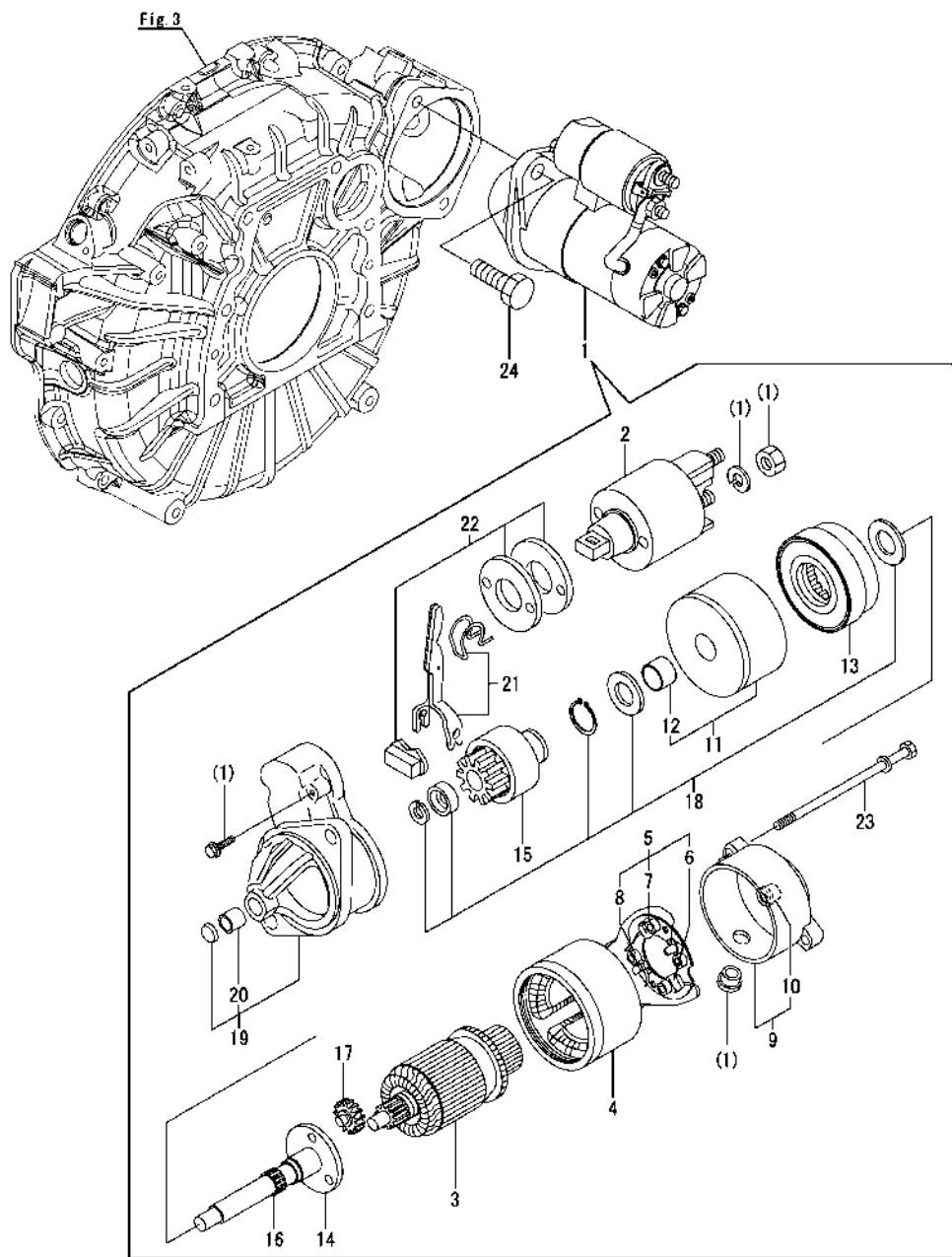
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129676-75010	ECU ASSY,4JH80	1							1
9	1	129677-75010	ECU ASSY,4JH110		1						1
17	1	26366-060002	NUT, M6	4	4						
18	1	129677-77720	BRACKET, ECU BASE	1	1						
18-1	1	129677-77721	BRACKET, ECU BASE	1	1					N	
		(A=E50926) (B=E50918)									
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	RUBBER, SENSOR	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						
31	1	129A00-75940	ECU ASSY,SERVICE YMR	1	1						2
43	1	129677-77750	BRACE, ECU BRACKET	1	1						W
		(A=E50926) (B=E50918)									
44	1	129677-77930	STOPPER ASSY, ECU	2	2						W
		(A=E50450) (B=E50562)									
45	2	128990-77600	GROMMET, M6	2	2						W
		(A=E50450) (B=E50562)									

Remarks
(1)Follow the FIE procedure.
(2)Service ECU
If the proper information is not installed, the engine will not operate.
To install proper information, go to an authorized distributor.

Fig.45. STARTER MOTOR

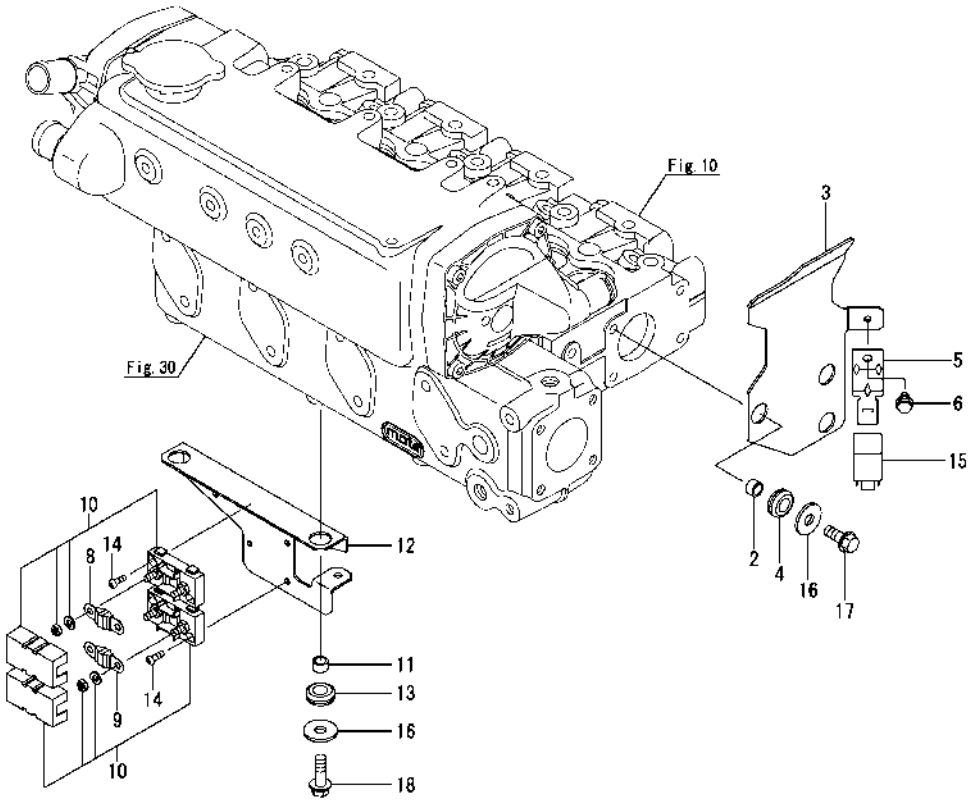


No.	Lev.	Parts No.	Description	(A)=4JH80	(D)=	I	R
				(B)=4JH110	(E)=		
				(C)=	(F)=		
				Q'ty			
				(A)	(B)	(C)	(D)
				(E)	(F)		
1	1	129608-77010	STARTER ASSY	1	1		
2	2	129698-77020	SWITCH ASSY, MAGNET	1	1		
3	2	129698-77101	ARMATURE ASSY	1	1		
4	2	129608-77110	YOKE ASSY	1	1		
5	2	129698-77120	HOLDER 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, STARTER	1	1		
10	3	129698-77170	BEARING, REAR COVER	1	1		
11	2	129698-77180	BRACKET, CENTER P	1	1		
12	3	129698-77190	BRACKET, CENTER	1	1		
13	2	129698-77200	GEAR, INTERNAL	1	1		
14	2	129698-77210	BRACKET, CENTER A	1	1		
15	2	129698-77220	PINION ASSY	1	1		
16	2	129698-77230	SHAFT, PINION	1	1		
17	2	129698-77240	GEAR, PLANETARY	3	3		
18	2	129698-77250	WASHER SET	1	1		
19	2	129698-77260	CASE ASSY, GEAR	1	1		
20	3	X2114535200	METAL, STARTER	1	1		
21	2	129698-77270	LEVER SET, SHIFT	1	1		
22	2	129698-77280	COVER KIT, DUST	1	1		
23	2	124195-77770	BOLT, THROUGH	2	2		
24	1	26116-120302	BOLT, M12X 30 PLATED	2	2		

Fig.46. RELAY

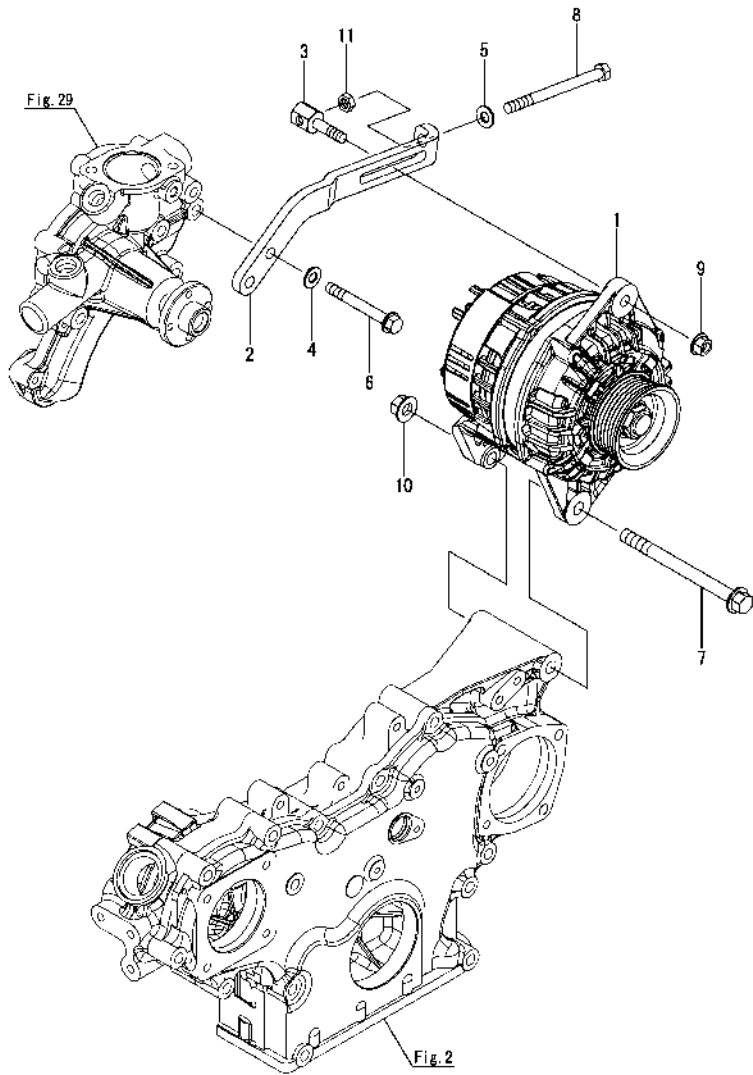
(A)=4JH80
(B)=4JH110
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	128990-77430	COLLAR, BRACKET	3	3						
3	1	129677-77570	BRACKET, RELAY	1	1						
4	1	128990-77610	GROMMET, M8	3	3						
5	1	129927-77910	BRACKET, CONNECTOR	1	1						
6	1	26106-060122	BOLT, M6X 12 PLATED	1	1						
6-1	1	26106-060102	BOLT, M6X 10 PLATED	1	1						R
(A)=*2017.10.) (B)=*2017.10.)											
8	1	127677-77060	FUSE, 32V-200A	1	1						
9	1	119578-77080	FUSE, 32V-50A	1	1						
10	1	119578-77200	HOLDER, FUSE	2	2						
11	1	128990-77430	COLLAR, BRACKET	2	2						
12	1	129677-77581	BRACKET,FUSE	1	1						
13	1	128990-77610	GROMMET, M8	2	2						
14	1	26557-040122	SCREW, M4X12	4	4						
15	1	129927-77920	RELAY, ISO 70A	1	1						
16	1	22157-080000	WASHER, 8	5	5						
17	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
18	1	26106-080252	BOLT, M8X 25 PLATED	2	2						

Fig.47. ALTERNATOR(EARTH TYPE)



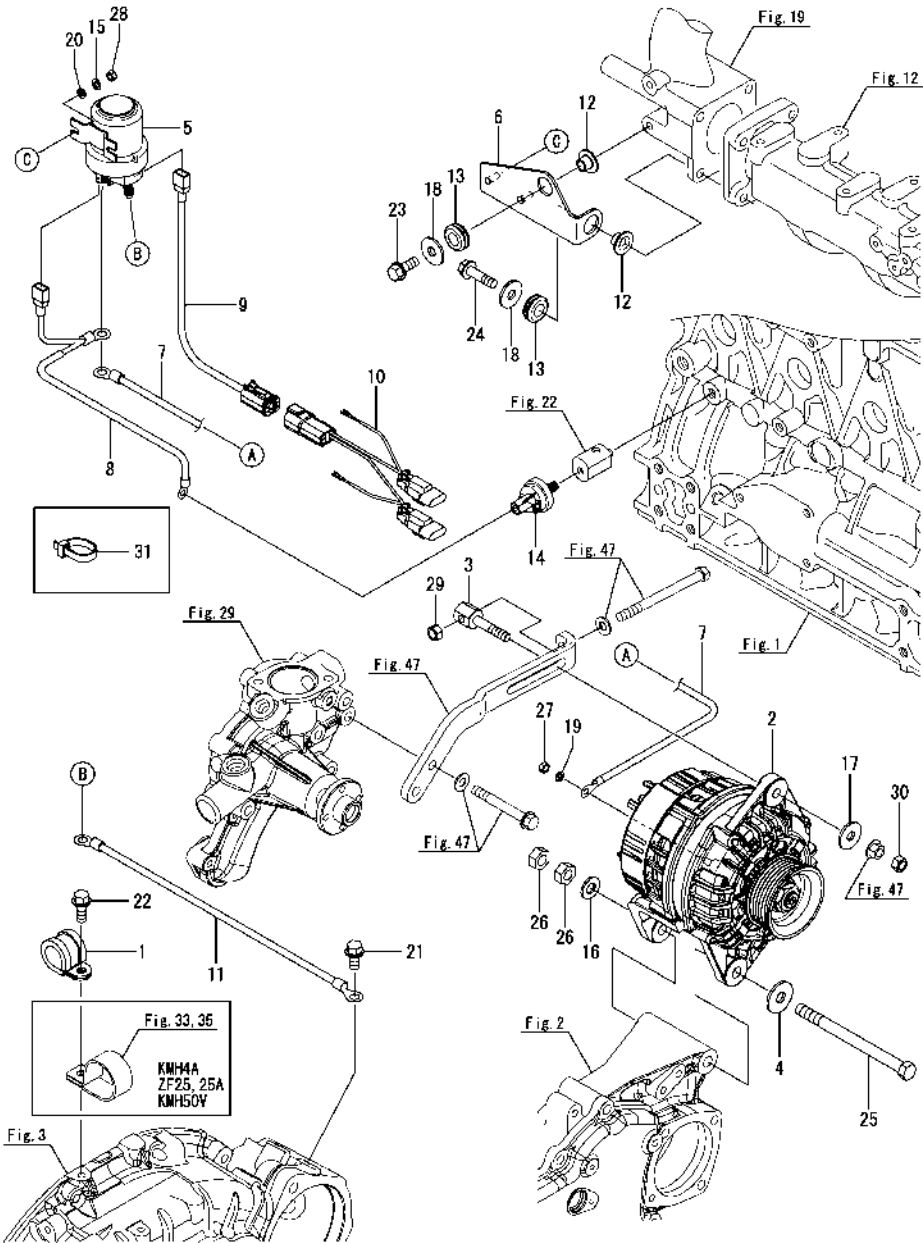
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-77250	ALTERNATOR, 12V-125A	1	1						1
2	1	129677-77440	ADJUSTER, BELT	1	1						
3	1	129271-77641	BOLT, ADJUSTER	1	1						
4	1	22137-080000	WASHER, 8	1	1						
5	1	22137-080000	WASHER, 8	1	1						
6	1	26106-080652	BOLT, M8X 65 PLATED	1	1						
7	1	26106-101202	BOLT, M10X120 PLATED	1	1						
8	1	26116-081004	BOLT, M8X100 PLATED	1	1						
9	1	26366-080002	NUT, M8	1	1						
10	1	26366-100002	NUT, M10	1	1						
11	1	26756-080002	NUT, LOCK M8	1	1						

Remarks
(1)Inner parts are shown in Fig.71(48B).

Fig.69. (47A)ALTERNATOR(EARTH FLOAT TYPE REMODEL KIT)(OPTIONAL)



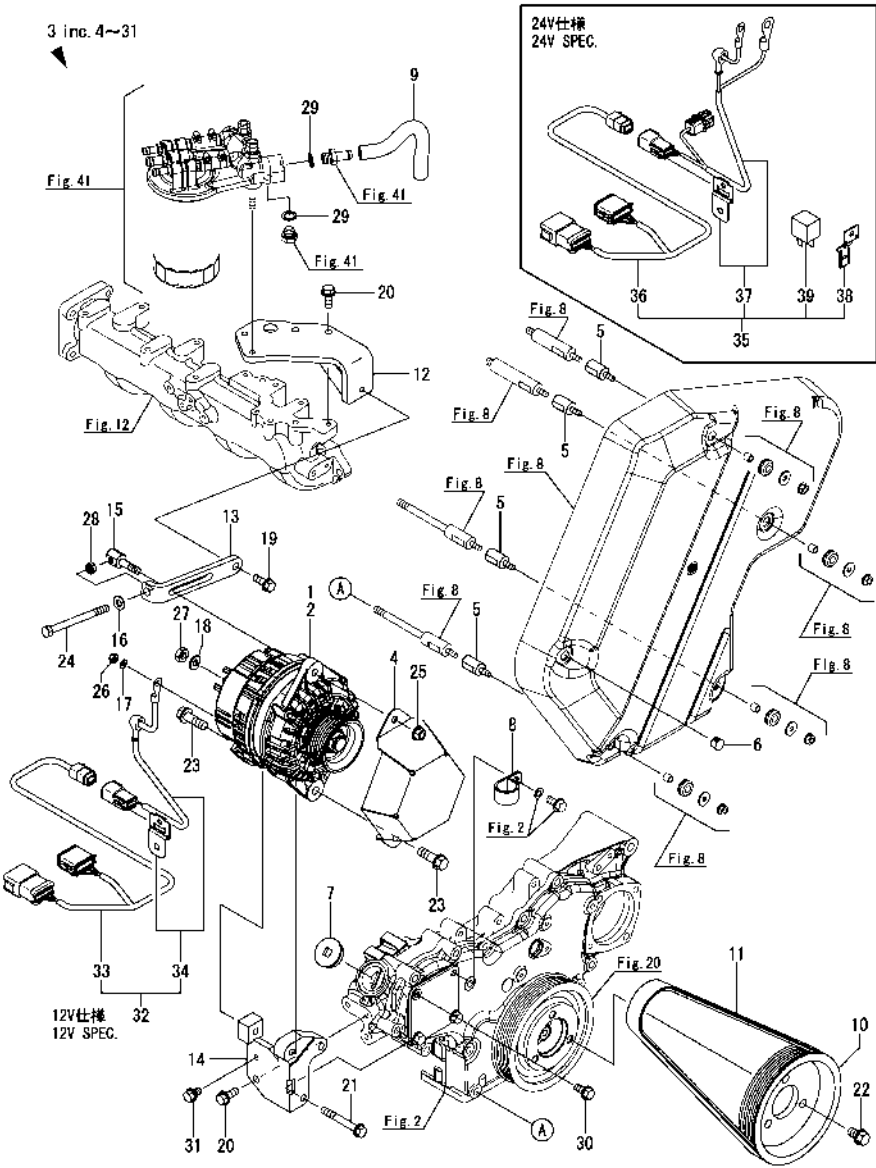
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-49050	RETAINER, PIPE	1	1						
2	1	129677-77300	ALTERNATOR,12V-ISOLA	1	1						1
3	1	129677-77350	BOLT,ADJUSTER	1	1						
4	1	129677-77360	WASHER,30/10.5	1	1						
5	1	129677-77370	RELAY, MINUS	1	1						
6	1	129677-77380	BRACKET, RELAY	1	1						
7	1	129677-77390	CABLE,MINUS ALT-RELA	1	1						
8	1	129677-77400	HARNESS,MINUS LO SW	1	1						
9	1	129677-77410	HARNESS,START PULSE1	1	1						
10	1	129677-77420	HARNESS,START PULSE2	1	1						
11	1	129677-77430	CABLE,RELAY-FWH	1	1						
12	1	129927-77680	COLLAR, CONTROLLER	2	2						
13	1	119578-91351	RUBBER, CONTROLLER	2	2						
14	1	126630-91601	SWITCH, HYDRAULIC	1	1						
15	1	22137-050000	WASHER, 5	2	2						
16	1	22137-100000	WASHER, 10	1	1						
17	1	22157-080000	WASHER, 8	1	1						
18	1	22157-080000	WASHER, 8	2	2						
19	1	22217-050000	WASHER, SPRING 5	1	1						
20	1	22217-050000	WASHER, SPRING 5	2	2						
21	1	26106-080162	BOLT, M8X 16 PLATED	1	1						
22	1	26106-080202	BOLT, M8X 20 PLATED	1	1						
23	1	26106-080202	BOLT, M8X 20 PLATED	1	1						
24	1	26106-080302	BOLT, M8X 30 PLATED	1	1						
25	1	26116-101302	BOLT, M10X130 PLATED	1	1						
26	1	26706-100002	NUT, M10	2	2						
27	1	26716-050002	NUT, M5	1	1						
28	1	26716-050002	NUT, M5	2	2						
29	1	26716-080002	NUT, M8	1	1						
30	1	26716-080002	NUT, M8	1	1						
31	1	29621-200001	BAND, TR200	4	4						

Remarks
(1)Inner parts are shown in Fig.72(48C).

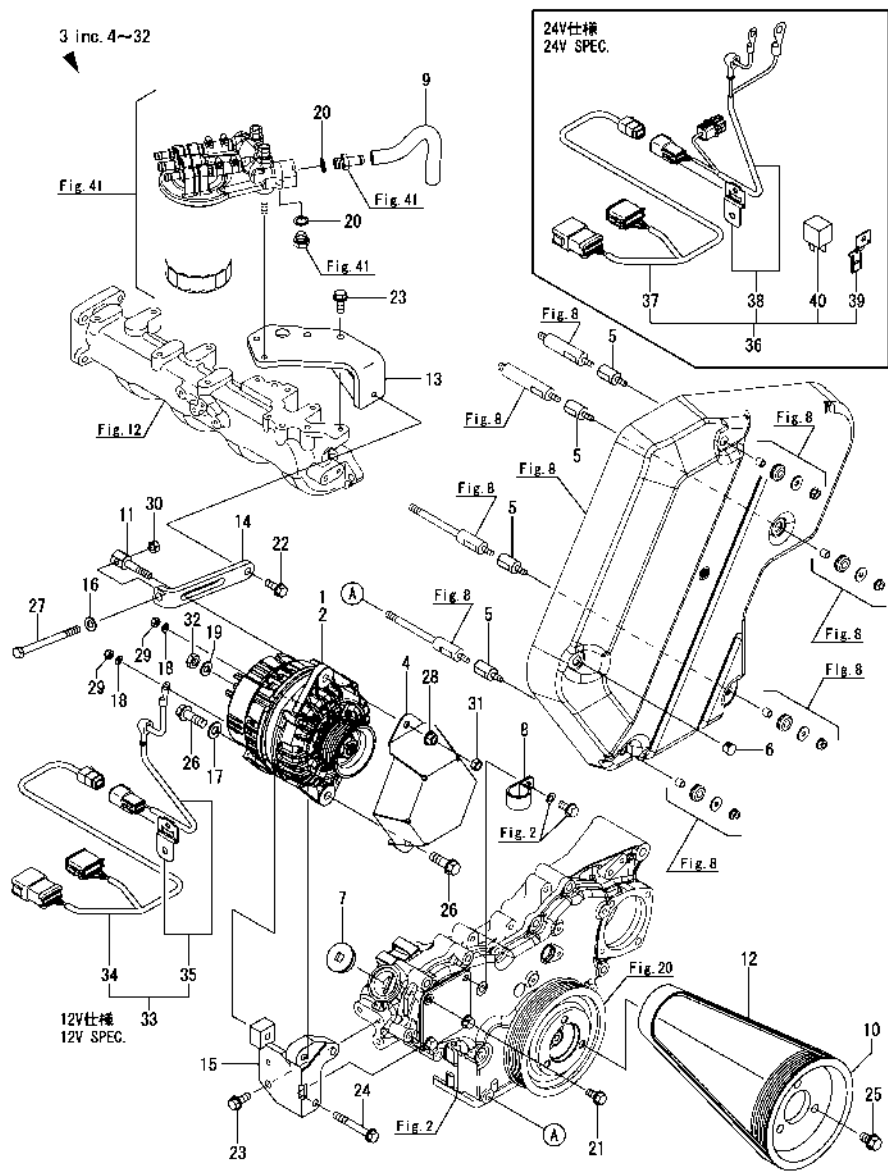
Fig.48. ALTERNATOR KIT(2ND)(OPTIONAL)



Remarks
(1)12V specification(Inner parts are shown in Fig.71(48B)).
(2)24V specification(Inner parts are shown in Fig.71(48B)).
(3)12V specification.
(4)24V specification.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-77250	ALTERNATOR, 12V-125A	1	1						1
2	1	129677-77250	ALTERNATOR, 24V-60A	1	1						2
3	1	129677-77600	ALTERNATOR KIT, JHCR	1	1						W
(A=E50450) (B=E50562)											
4	2	129677-09130	COVER, BELT	1	1						
5	2	129677-09510	BOLT, SPACER L=25	4	4						
6	2	129677-09600	PLUG, D12.7 HOLE	1	1						
7	2	119807-11770	PLUG, FILLER	1	1						
8	2	121575-49310	RETAINER, PIPE	1	1						
9	2	129677-59270	HOSE, FUEL RETURN	1	1						
10	2	129271-77251	PULLEY, CRANK 6PK	1	1						
11	2	128790-77580	BELT, ALTERNATOR 6PK	1	1						
12	2	129677-77610	BRACKET, FILTER	1	1						
13	2	129677-77620	ADJUSTER, BELT	1	1						
14	2	129677-77630	BRACKET, 2ND	1	1						
15	2	129271-77641	BOLT, ADJUSTER	1	1						
16	2	22137-080000	WASHER, 8	1	1						
17	2	22217-050000	WASHER, SPRING 5	1	1						
18	2	22217-080000	WASHER, SPRING 8	1	1						
19	2	26106-080202	BOLT, M8X 20 PLATED	1	1						
20	2	26106-080202	BOLT, M8X 20 PLATED	3	3						
21	2	26106-080602	BOLT, M8X 60 PLATED	2	2						
22	2	26106-100202	BOLT, M10X 20 PLATED	3	3						
23	2	26106-100302	BOLT, M10X 30 PLATED	2	2						
24	2	26116-081004	BOLT, M8X100 PLATED	1	1						
25	2	26366-080002	NUT, M8	1	1						
26	2	26716-050002	NUT, M5	1	1						
27	2	26756-080002	NUT, LOCK M8	1	1						
28	2	26756-080002	NUT, LOCK M8	1	1						
29	2	23414-120000	GASKET, 12X1.0	2	2						W
(A=E50450) (B=E50562)											
30	2	26106-080162	BOLT, M8X 16 PLATED	1	1						W
(A=E50450) (B=E50562)											
31	2	26106-080122	BOLT, M8X 12 PLATED	1	1						W
(A=*2017.08.) (B=*2017.08.)											
32	1	129677-77650	HARNESS KIT,EXCITE12	1	1						W 3
(A=*2017.08.) (B=*2017.08.)											
33	2	164000-21350	HARNESS, WIRE	1	1						W 3
(A=*2017.08.) (B=*2017.08.)											
34	2	129677-77670	HARNESS, 2ND ALT 12V	1	1						W 3
(A=*2017.08.) (B=*2017.08.)											
35	1	129677-77660	HARNESS KIT,EXCITE24	1	1						W 4
(A=*2017.08.) (B=*2017.08.)											
36	2	164000-21350	HARNESS, WIRE	1	1						W 4
(A=*2017.08.) (B=*2017.08.)											
37	2	129677-77680	HARNESS, 2ND ALT 24V	1	1						W 4
(A=*2017.08.) (B=*2017.08.)											
38	2	129927-77910	BRACKET, CONNECTOR	1	1						W 4
(A=*2017.08.) (B=*2017.08.)											
39	2	129927-77920	RELAY, ISO 70A	1	1						W 4
(A=*2017.08.) (B=*2017.08.)											

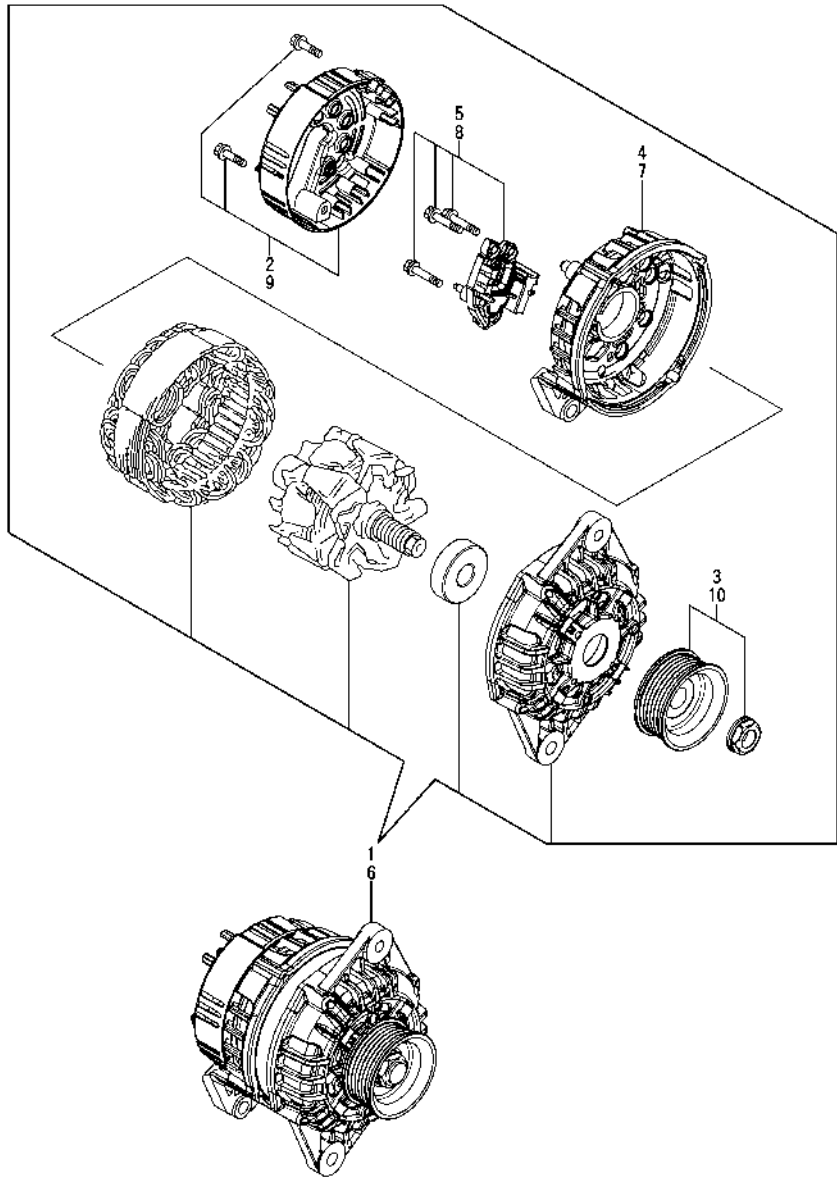
Fig.70. (48A)ALTERNATOR KIT(2ND)(ISOLATED TYPE)(OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-77300	ALTERNATOR,12V-ISOLA	1	1						1
2	1	129677-77450	ALTERNATOR,24V-ISOLA	1	1						2
3	1	129677-77640	ALTERNATOR KIT,ISOLA	1	1						
4	2	129677-09130	COVER, BELT	1	1						
5	2	129677-09510	BOLT, SPACER L=25	4	4						
6	2	129677-09600	PLUG, D12.7 HOLE	1	1						
7	2	119807-11770	PLUG, FILLER	1	1						
8	2	121575-49310	RETAINER, PIPE	1	1						
9	2	129677-59270	HOSE, FUEL RETURN	1	1						
10	2	129271-77251	PULLEY, CRANK 6PK	1	1						
11	2	129677-77350	BOLT,ADJUSTER	1	1						
12	2	128790-77580	BELT, ALTERNATOR 6PK	1	1						
13	2	129677-77610	BRACKET, FILTER	1	1						
14	2	129677-77620	ADJUSTER, BELT	1	1						
15	2	129677-77630	BRACKET, 2ND	1	1						
16	2	22137-080000	WASHER, 8	1	1						
17	2	22137-100000	WASHER, 10	1	1						
18	2	22217-050000	WASHER, SPRING 5	2	2						
19	2	22217-080000	WASHER, SPRING 8	1	1						
20	2	23414-120000	GASKET, 12X1.0	2	2						
21	2	26106-080162	BOLT, M8X 16 PLATED	1	1						
22	2	26106-080202	BOLT, M8X 20 PLATED	1	1						
23	2	26106-080202	BOLT, M8X 20 PLATED	3	3						
24	2	26106-080602	BOLT, M8X 60 PLATED	2	2						
25	2	26106-100202	BOLT, M10X 20 PLATED	3	3						
26	2	26106-100302	BOLT, M10X 30 PLATED	2	2						
27	2	26116-081004	BOLT, M8X100 PLATED	1	1						
28	2	26366-080002	NUT, M8	1	1						
29	2	26716-050002	NUT, M5	2	2						
30	2	26716-080002	NUT, M8	1	1						
31	2	26716-080002	NUT, M8	1	1						
32	2	26756-080002	NUT, LOCK M8	1	1						
33	1	129677-77650	HARNESS KIT,EXCITE12	1	1						3
34	2	164000-21350	HARNESS, WIRE	1	1						3
35	2	129677-77670	HARNESS, 2ND ALT 12V	1	1						3
36	1	129677-77660	HARNESS KIT,EXCITE24	1	1						4
37	2	164000-21350	HARNESS, WIRE	1	1						4
38	2	129677-77680	HARNESS, 2ND ALT 24V	1	1						4
39	2	129927-77910	BRACKET, CONNECTOR	1	1						4
40	2	129927-77920	RELAY, ISO 70A	1	1						4

Remarks
(1)12V specification(Inner parts are shown in Fig.72(48C)).
(2)24V specification(Inner parts are shown in Fig.72(48C)).
(3)12V specification.
(4)24V specification.

Fig.71. (48B)ALTERNATOR(INNER PARTS)

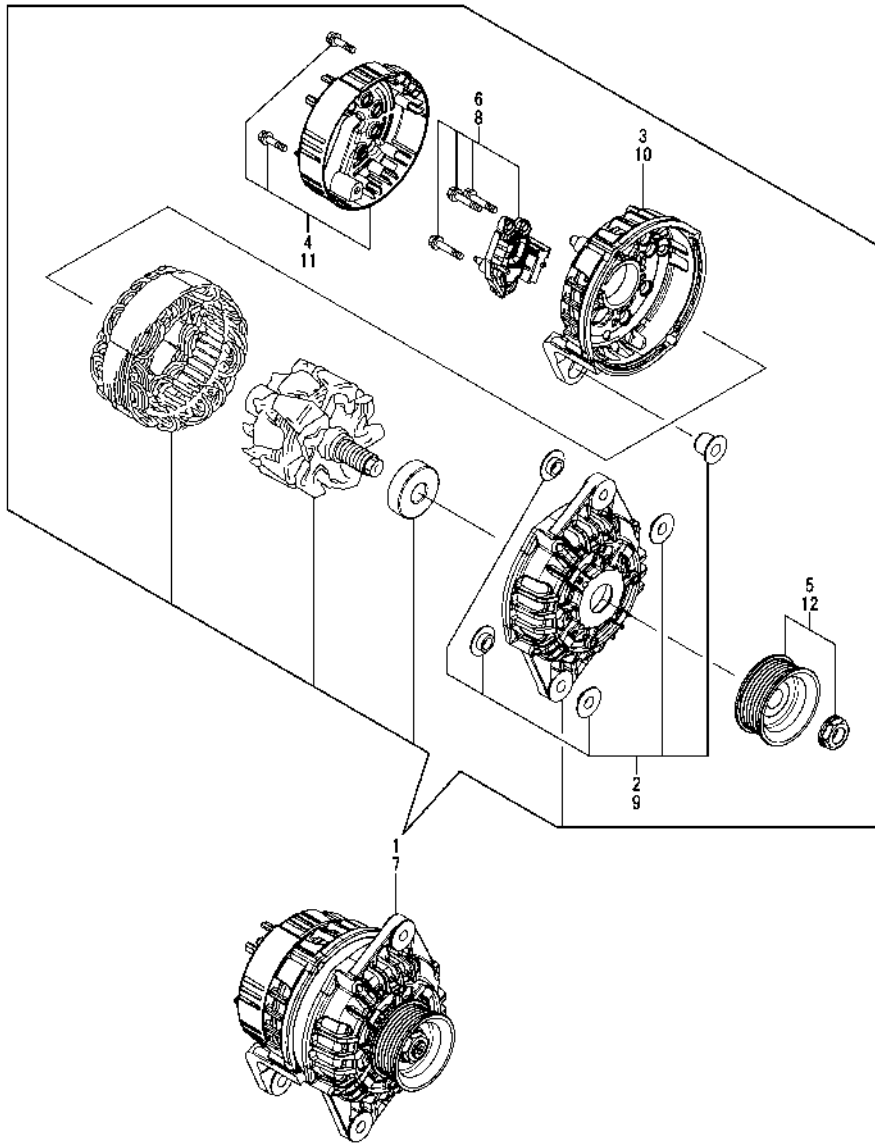


(1)12V specification.
(2)24V specification.

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-77250	ALTERNATOR, 12V-125A	1	1						1
2	2	128990-77700	COVER, REAR	1	1						1
3	2	128990-77730	PULLEY	1	1						1
4	2	128990-77770	RECTIFIER,12V BRACKE	1	1						1
5	2	128990-77780	REGULATOR,12V SCREW	1	1						1
6	1	129677-77250	ALTERNATOR, 24V-60A	1	1						2
7	2	129677-77280	RECTIFIER,24V BRACKE	1	1						2
8	2	129677-77290	REGULATOR,24V SCREWS	1	1						2
9	2	128990-77700	COVER, REAR	1	1						2
10	2	128990-77730	PULLEY	1	1						2

Fig.72. (48C)ALTERNATOR(INNER PARTS)(ISOLATED TYPE)

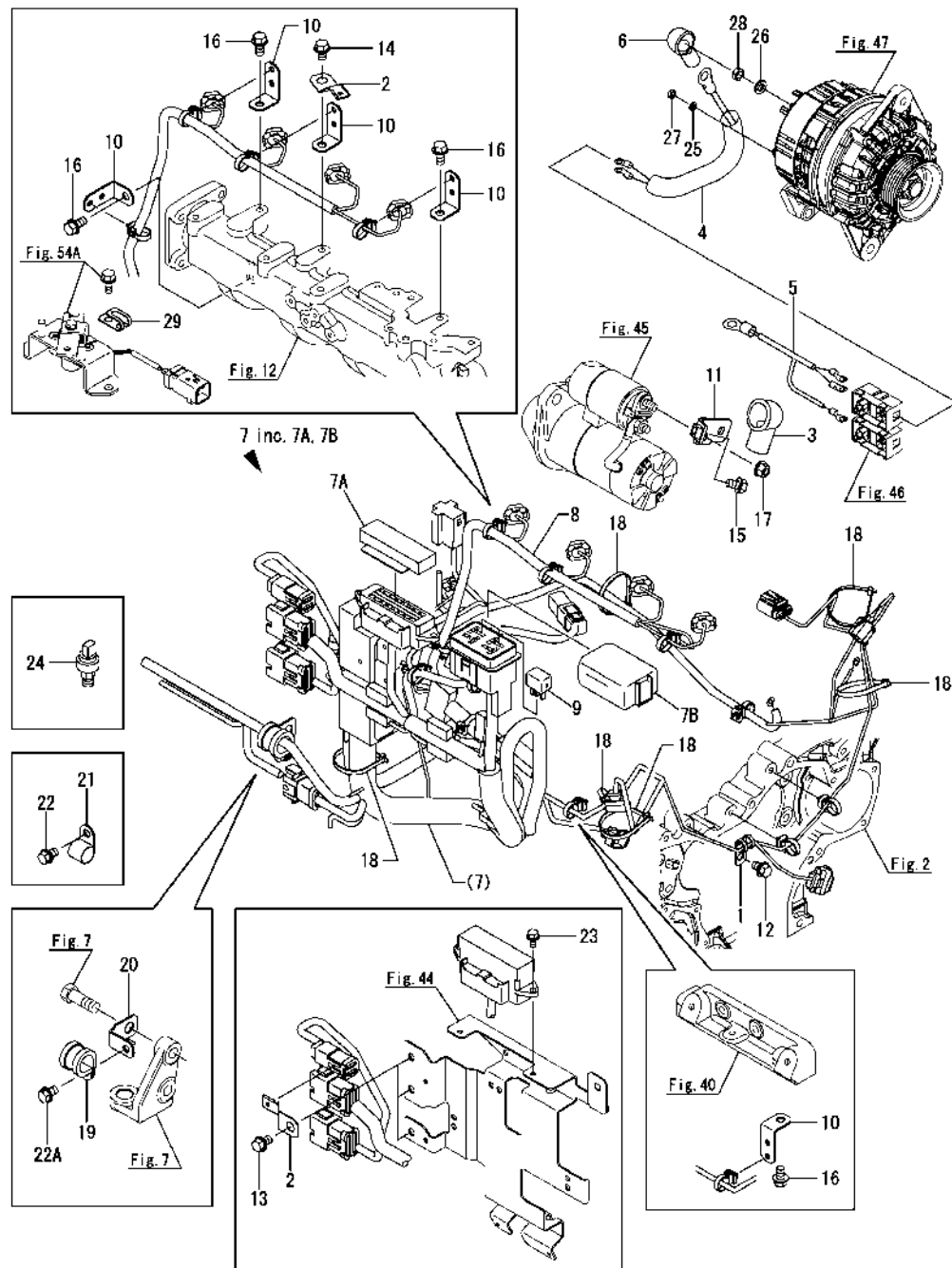


(1)12V specification.
(2)24V specification.

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

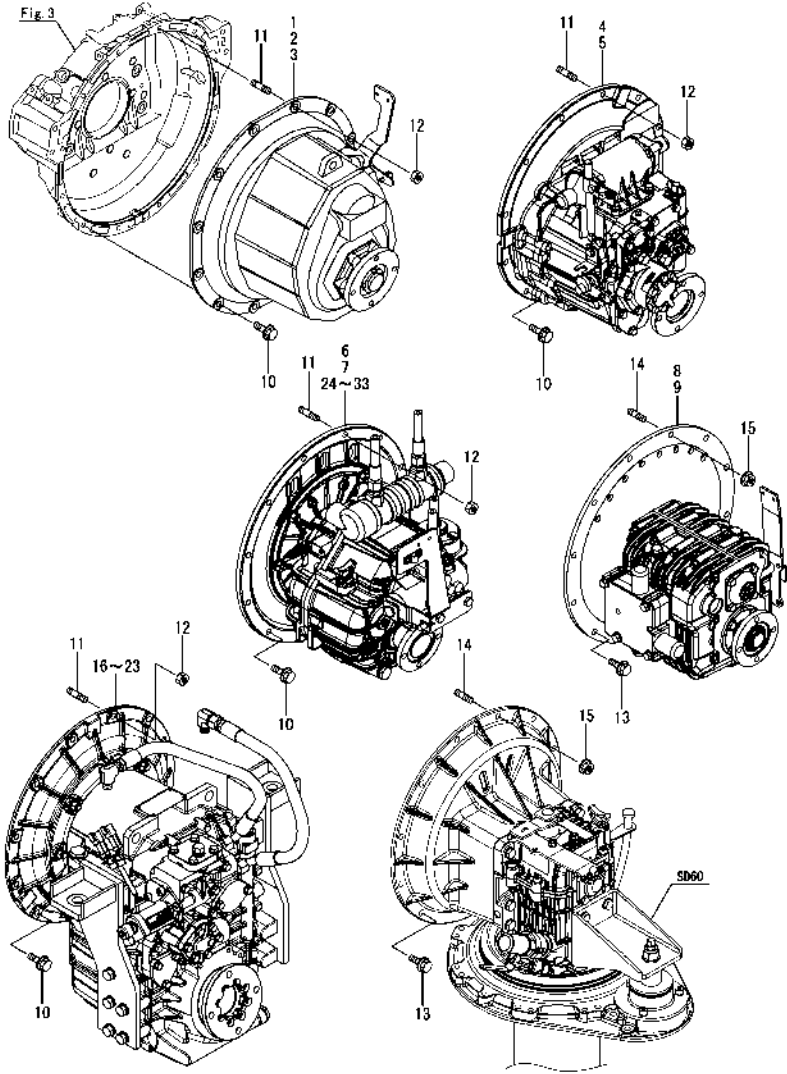
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-77300	ALTERNATOR,12V-ISOLA	1	1						1
2	2	129677-77310	BUSH ASSY,ISOLATION	1	1						1
3	2	129677-77330	RECTIFIER,12V ISOLAT	1	1						1
4	2	128990-77700	COVER, REAR	1	1						1
5	2	128990-77730	PULLEY	1	1						1
6	2	128990-77780	REGULATOR,12V SCREW	1	1						1
7	1	129677-77450	ALTERNATOR,24V-ISOLA	1	1						2
8	2	129677-77290	REGULATOR,24V SCREWS	1	1						2
9	2	129677-77310	BUSH ASSY,ISOLATION	1	1						2
10	2	129677-77340	RECTIFIER,24V ISOLAT	1	1						2
11	2	128990-77700	COVER, REAR	1	1						2
12	2	128990-77730	PULLEY	1	1						2

Fig.49. WIRE HARNESS



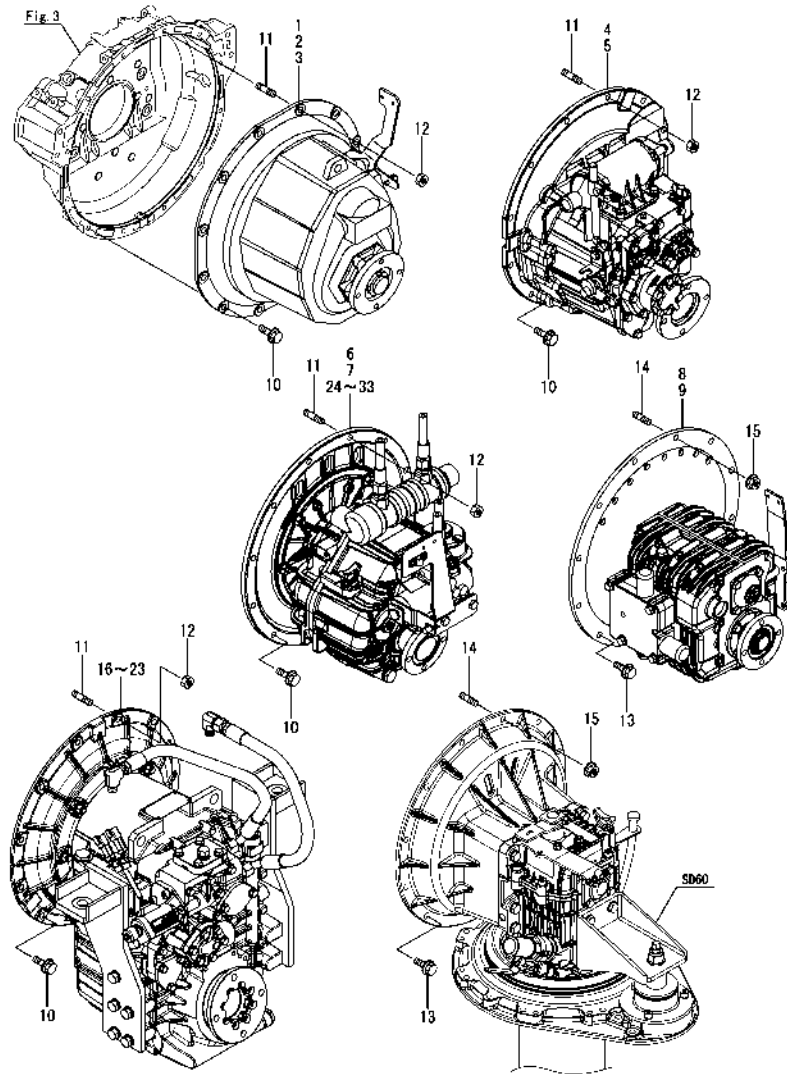
				(A)=4JH80 (B)=4JH110 (C)=	(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)
1	1	194440-51620	CLAMP, B	1	1				
2	1	119578-75610	CLIP, CONNECTOR	4	4				
3	1	119773-77030	COVER, TERMINAL	1	1				
4	1	129677-77030	HARNESS, WIRE A	1	1				
5	1	129677-77040	HARNESS, WIRE B	1	1				
6	1	129677-77060	COVER, TERMINAL	1	1				
7	1	129677-77110	HARNESS, ECU K	1	1				
7A	2	129677-77150	COVER,FUSEBOX	1	1				W
		(A=*2015.08.)	(B=*2015.08.)						
7B	2	129677-77160	COVER,RELAISBOX	1	1				W
		(A=*2015.08.)	(B=*2015.08.)						
8	1	129677-77130	HARNESS, ECU A	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, PIPE	1	1				
20	1	129677-77710	BRACKET, HARNESS	1	1				
21	1	23297-180081	CLAMP, A18X 8	1	1				Z
		(A=E50450)	(B=E50562)						
22	1	26106-080122	BOLT, M8X 12 PLATED	1	1				Z
		(A=E50450)	(B=E50562)						
22A	1	26106-080122	BOLT, M8X 12 PLATED	1	1				
23	1	26106-060122	BOLT, M6X 12 PLATED	2	2				
23-1	1	26106-060162	BOLT, M6X 16 PLATED	2	2				N
		(A=E50450)	(B=E50562)						
24	1	119578-91300	SENSOR, PRESSURE	1	1				
25	1	22217-050000	WASHER, SPRING 5	1	1				
26	1	22217-080000	WASHER, SPRING 8	1	1				
27	1	26716-050002	NUT, M5	1	1				
28	1	26756-080002	NUT, LOCK M8	1	1				
29	1	194440-51620	CLAMP, B	1	1				W
		(A=E50450)	(B=E50562)						

Fig.51. CLUTCH(OPTIONAL)



Remarks
(1)KM4A2.
(2)KMH4A.
(3)ZF25A.
(4)ZF30M.
(5)For KM4A2, KMH4A, KMH50V, ZF25, ZF25A connecting.
(6)For ZF30M, SD60 connecting.
(7)KMH50V.
(8)ZF25.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-81000	CLUTCH, I=1.47	1	1						1
2	1	129672-81010	CLUTCH, I=2.14	1	1						1
3	1	129672-81020	CLUTCH, I=2.63	1	1						1
4	1	129673-81010	CLUTCH, I=2.04	1	1						2
5	1	129673-81020	CLUTCH, I=2.45	1	1						2
6	1	129673-81100	CLUTCH ASSY,ZF25A193	1	1						3
7	1	129673-81110	CLUTCH ASSY,ZF25A248	1	1						3
8	1	129673-81200	GEAR, MARINE I=2.15	1	1						4
9	1	129673-81210	GEAR, MARINE I=2.7	1	1						4
10	1	26106-100302	BOLT, M10X 30 PLATED	10	10						5
11	1	26226-100252	STUD, M10X 25	2	2						5
12	1	26706-100002	NUT, M10	2	2						5
13	1	26106-100282	BOLT, M10X 28 PLATED	10	10						6
13-1	1	26106-100252	BOLT, M10X 25 PLATED	10	10						R 6
		(A=E50450) (B=E50562)									
14	1	26226-100202	STUD, M10X 20	2	2						6
14-1	1	26226-100252	STUD, M10X 25	2	2						R 6
		(A=E50450) (B=E50562)									
15	1	26366-100002	NUT, M10	2	2						6
16	1	129677-81210	CLUTCH ASSY,50V 247M (B=*2016.05.)		1						W 7
17	1	129677-81220	CLUTCH ASSY,50V 208M (B=*2016.05.)		1						W 7
18	1	129677-81230	CLUTCH ASSY,50V 158M (B=*2016.05.)		1						W 7
19	1	129677-81240	CLUTCH ASSY,50V 122M (B=*2016.05.)		1						W 7
20	1	129677-81260	CLUTCH ASSY,50V 247E (B=*2016.05.)		1						W 7
21	1	129677-81270	CLUTCH ASSY,50V 208E (B=*2016.05.)		1						W 7
22	1	129677-81280	CLUTCH ASSY,50V 158E (B=*2016.05.)		1						W 7
23	1	129677-81290	CLUTCH ASSY,50V 122E (B=*2016.05.)		1						W 7
24	1	129677-81520	CLUTCH ASSY,ZF25A229 (A=*2017.03.) (B=*2017.03.)	1	1						W 3
25	1	129677-81530	CLUTCH ASSY,ZF25A271 (A=*2017.03.) (B=*2017.03.)	1	1						W 3
26	1	129677-81540	CLUTCH ASSY,ZF25A193 (A=*2017.03.) (B=*2017.03.)	1	1						W 3
27	1	129677-81550	CLUTCH ASSY,ZF25A229 (A=*2017.03.) (B=*2017.03.)	1	1						W 3
28	1	129677-81560	CLUTCH ASSY,ZF25A248 (A=*2017.03.) (B=*2017.03.)	1	1						W 3
29	1	129677-81570	CLUTCH ASSY,ZF25A271 (A=*2017.03.) (B=*2017.03.)	1	1						W 3
30	1	129677-81580	CLUTCH ASSY,ZF25197M (A=*2017.03.) (B=*2017.03.)	1	1						W 8
31	1	129677-81590	CLUTCH ASSY,ZF25280M (A=*2017.03.) (B=*2017.03.)	1	1						W 8



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
32	1	129677-81600	CLUTCH ASSY,ZF25197E	1	1					W	8
		(A=*2017.03.)	(B=*2017.03.)								
33	1	129677-81610	CLUTCH ASSY,ZF25280E	1	1					W	8
		(A=*2017.03.)	(B=*2017.03.)								

- (1)KM4A2.
- (2)KMH4A.
- (3)ZF25A.
- (4)ZF30M.
- (5)For KM4A2, KMH4A, KMH50V, ZF25, ZF25A connecting.
- (6)For ZF30M, SD60 connecting.
- (7)KMH50V.
- (8)ZF25.

(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	164000-21460	HARNESS,WIRE SHIFT	1	1						

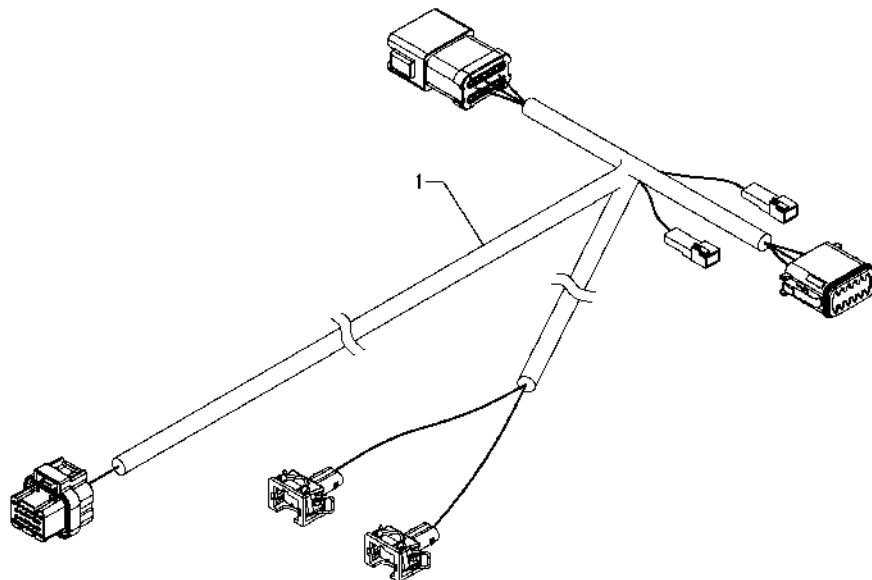
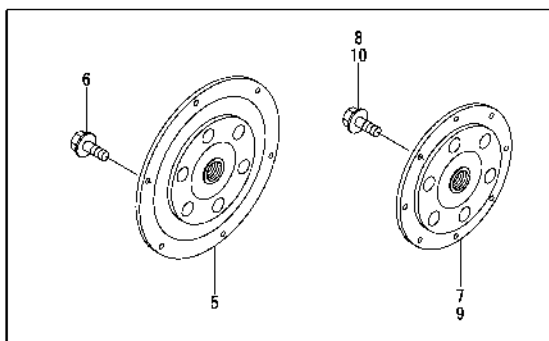
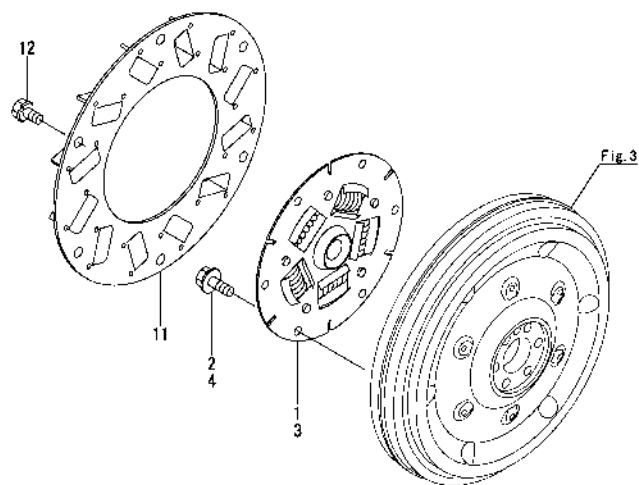


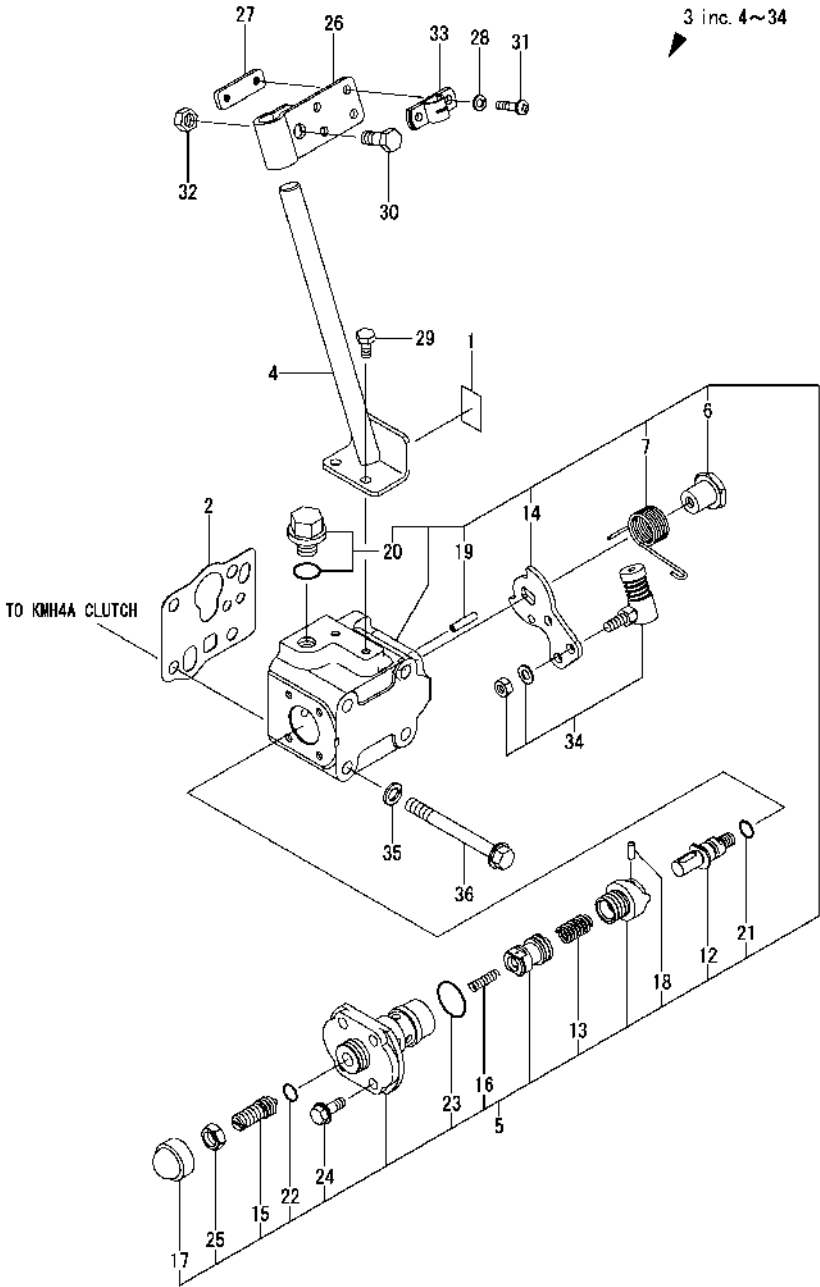
Fig.52. DAMPER DISC(OPTIONAL)



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	Q'ty (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

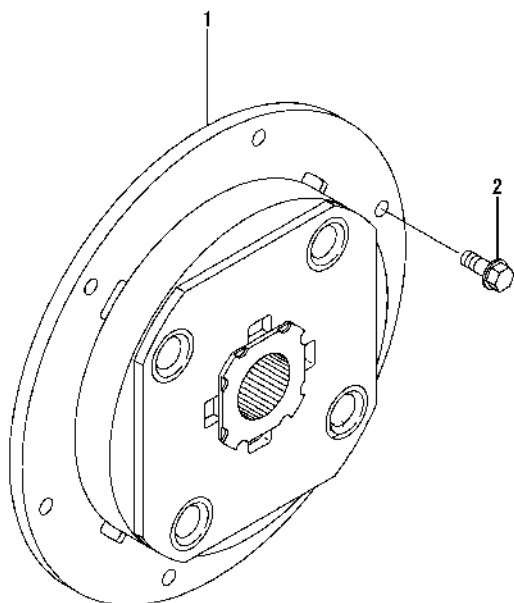
(1)For KM4A2.
(2)For SD60.
(3)For KMH4A.
(4)For ZF25, ZF25A.
(5)For ZF30M.

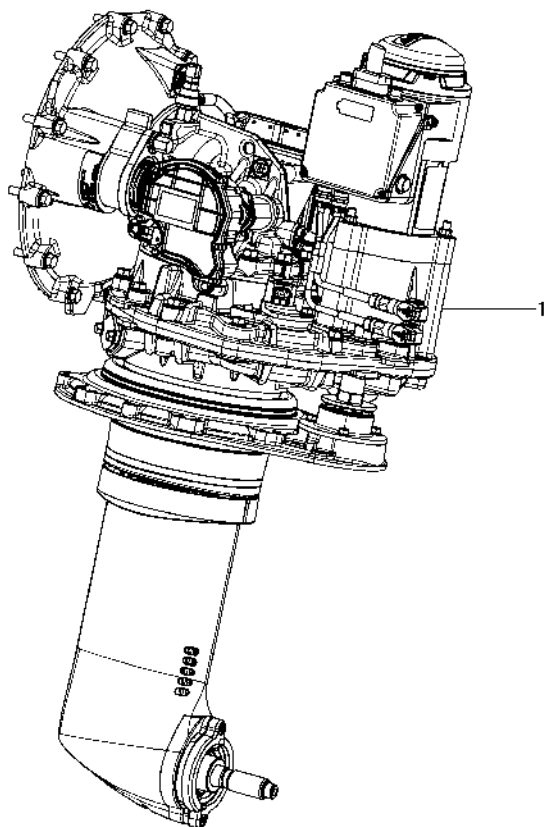
Fig.73. (52A)TROLLING VALVE(A2)(FOR KMH4A)(OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177058-02450	LABEL	1	1						
2	1	177061-04520	GASKET, VALVE	1	1						
3	1	129673-81900	VALVE ASSY, TROLLING	1	1						
4	2	177057-04481	BRACKET, WIRE	1	1						
5	2	177057-04502	VALVE ASSY, TROLLING	1	1						
6	3	177068-04481	NUT	1	1						
7	3	177068-04492	SPRING, RETURN	1	1						
12	3	177040-04571	SHAFT, LEVER	1	1						
13	3	177040-04581	SPRING, VALVE	1	1						
14	3	177057-04602	LEVER, TROLLING	1	1						
15	3	177057-04620	SCREW	1	1						
16	3	177040-04630	SPRING	1	1						
17	3	177040-04640	COVER	1	1						
18	3	22312-040100	PARALLEL PIN 4X10	1	1						
19	3	22351-040020	PIN, SPRING 4.0X20	1	1						
20	3	23490-120002	PLUG, 12	1	1						
21	3	24311-000090	O-RING, 1AP9.0	1	1						
22	3	24311-000090	O-RING, 1AP9.0	1	1						
23	3	24311-000210	O-RING, 1AP21.0	1	1						
24	3	26106-060162	BOLT, M6X 16 PLATED	4	4						
25	3	26776-100002	NUT, LOCK M10	1	1						
26	2	129670-67110	CLAMP, BRCKET	1	1						
27	2	121574-86320	RETAINER	1	1						
28	2	22217-050000	WASHER, SPRING 5	2	2						
29	2	26116-060122	BOLT, M6X 12 PLATED	2	2						
30	2	26116-080202	BOLT, M8X 20 PLATED	1	1						
31	2	26557-050202	SCREW, M5X20	2	2						
32	2	26716-080002	NUT, M8	1	1						
33	2	41710-000410	CLAMP	1	1						
34	2	41710-001300	JOINT, BALL M5	1	1						
35	1	22287-080000	WASHER, 8	4	4						
36	1	26106-080752	BOLT, M8X 75 PLATED	4	4						

Fig.74. (52B)COUPLING(FOR KMH50V)

[illegible]



No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	129676-81900	DRIVE ASSY.SPPSB 80	1						

Fig.53. ELECTRIC PARTS(FOR SD60, S2 DRIVE)

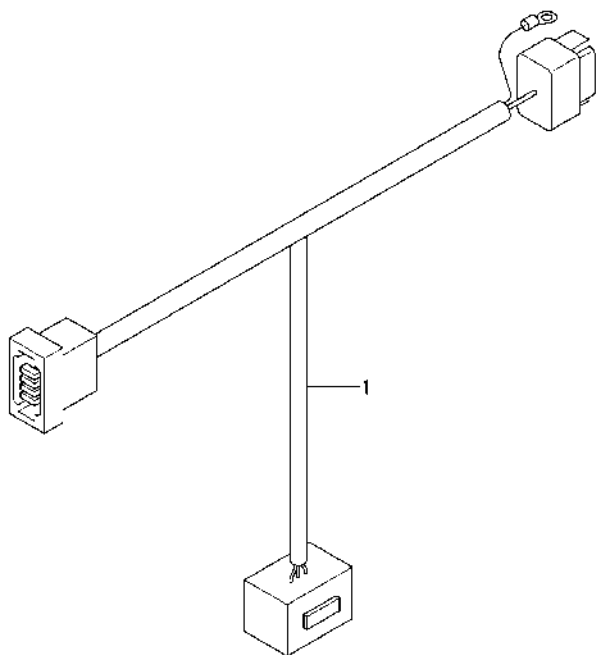
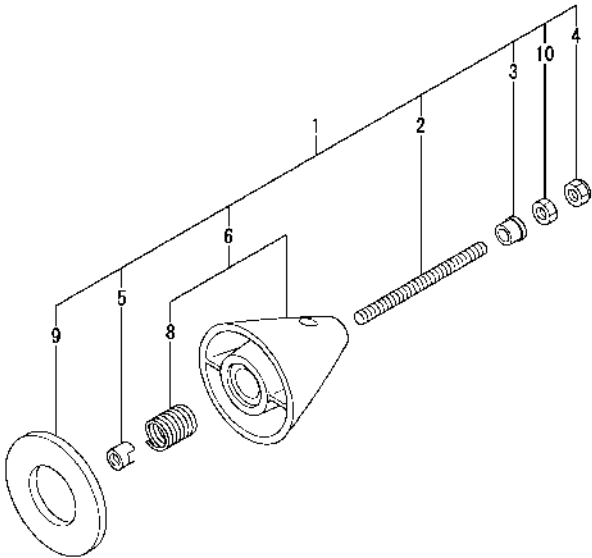
[illegible]

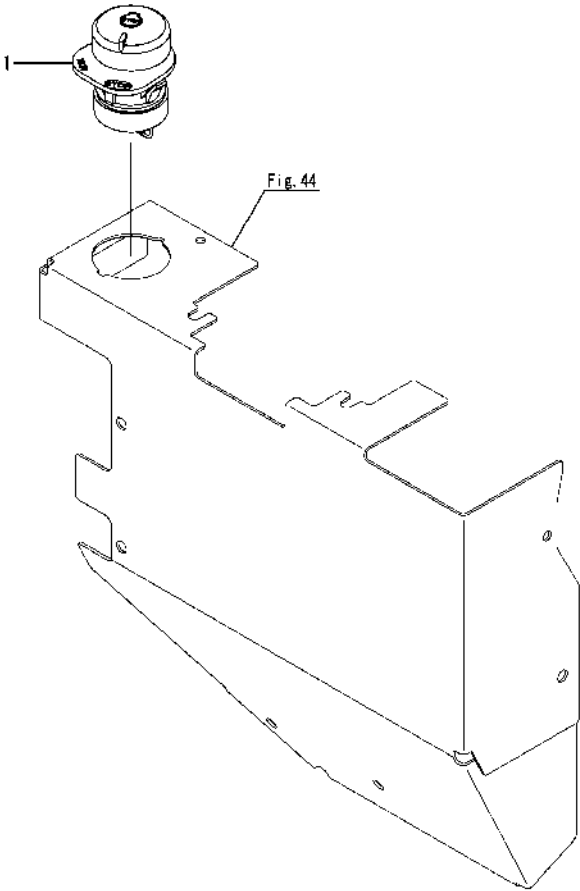
Fig.76. (53A)PROPELLER NUT(FOR SD60)(OPTIONAL)



(A)=4JH80
(B)=4JH110
(C)=
(D)=
(E)=
(F)=

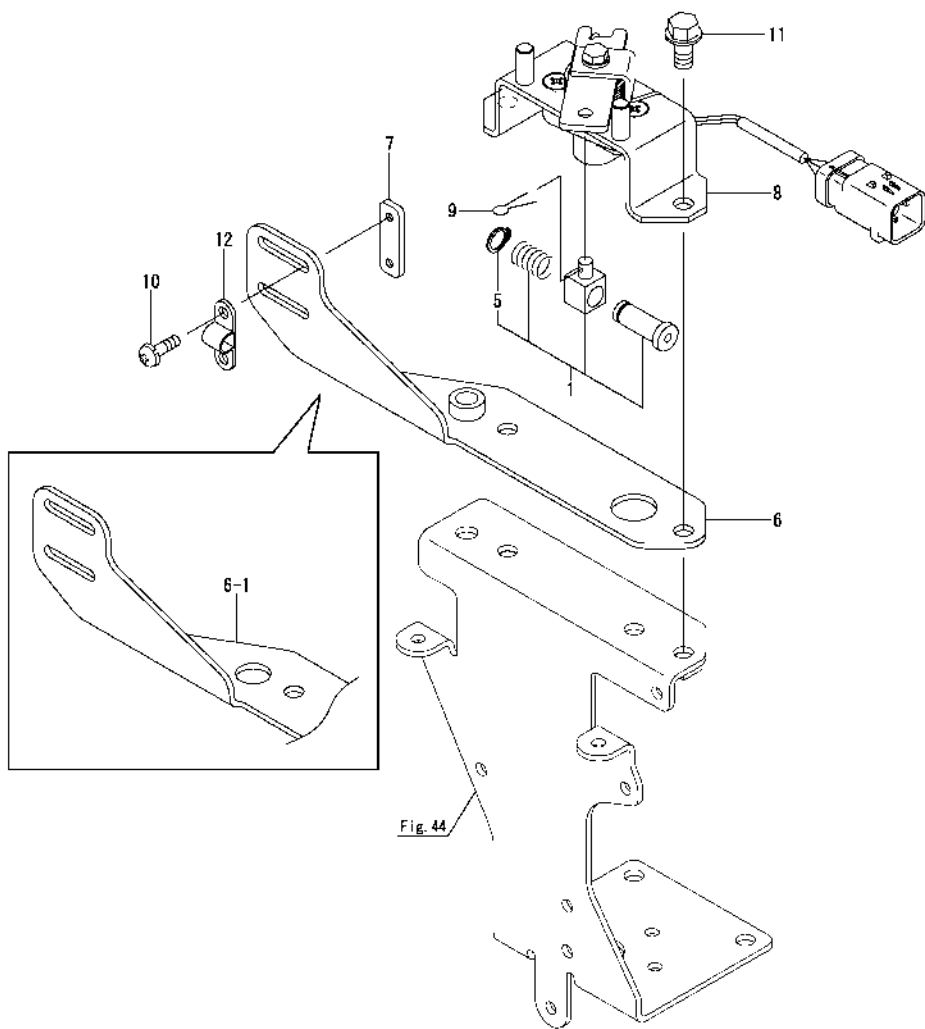
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	796450-09200	NUT ASSY, PROPELLER	1							
2	2	196440-09150	BOLT, M8X105	1							
3	2	196440-09160	SPACER	1							
4	2	196440-09170	NUT, NYLON	1							
5	2	196440-09180	NUT, M8	1							
6	2	196440-09200	NUT ASSY, PROPELLER	1							
8	3	196440-09220	INSERT, 20X2.0X1.0D	1							
9	2	196420-09220	WASHER, PROPELLER	1							
10	2	26793-080002	NUT, LOCK M8	1							

Fig.54. EMERGENCY STOP SWITCH



OCF50-M00091 Fig.54											
(A)=4JH80 (D)=											
(B)=4JH110 (E)=											
(C)= (F)=											
Q'ty											
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129677-91101	SWITCH, EMERGENCY	1	1						

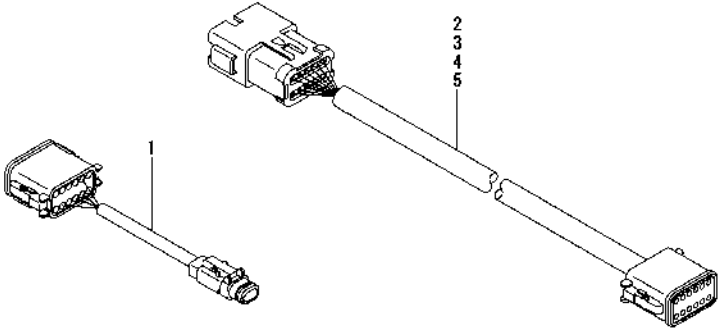
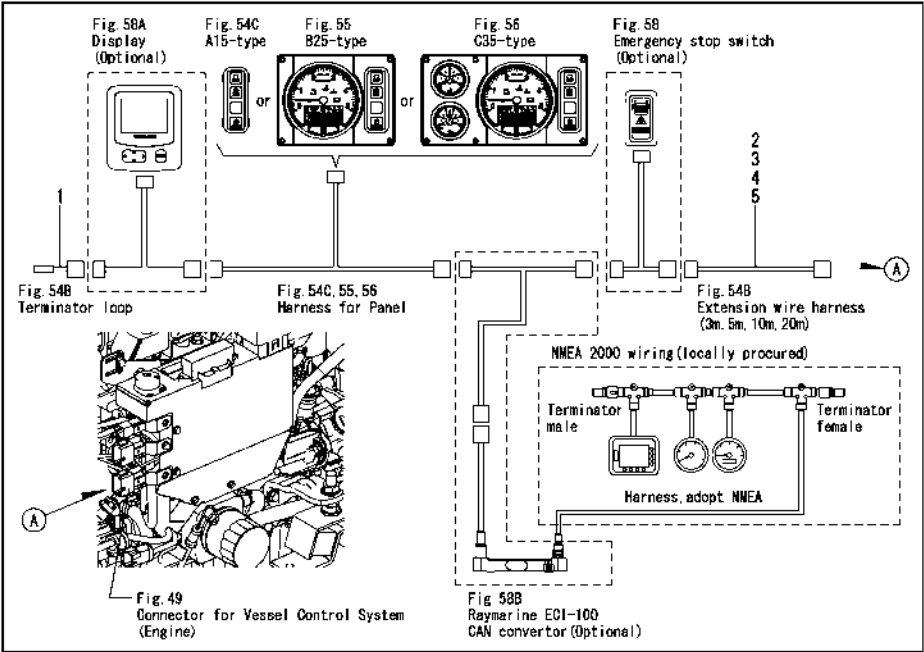
Fig.57. (54A)SENSOR(THROTTLE)(FOR A15, B25, C35 PANEL)



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=				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, SENSOR	1	1						
6-1	1	129677-77761	BRACKET, SENSOR	1	1					S	1
		(A=E50450) (B=E50562)									
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						

Remarks
(1) Fig.9 No.11 interchangeable by set.

Fig.50. (54B)TERMINAL ADAPTER & EXTENSION HARNESS(FOR A15, B25, C35 PANEL)



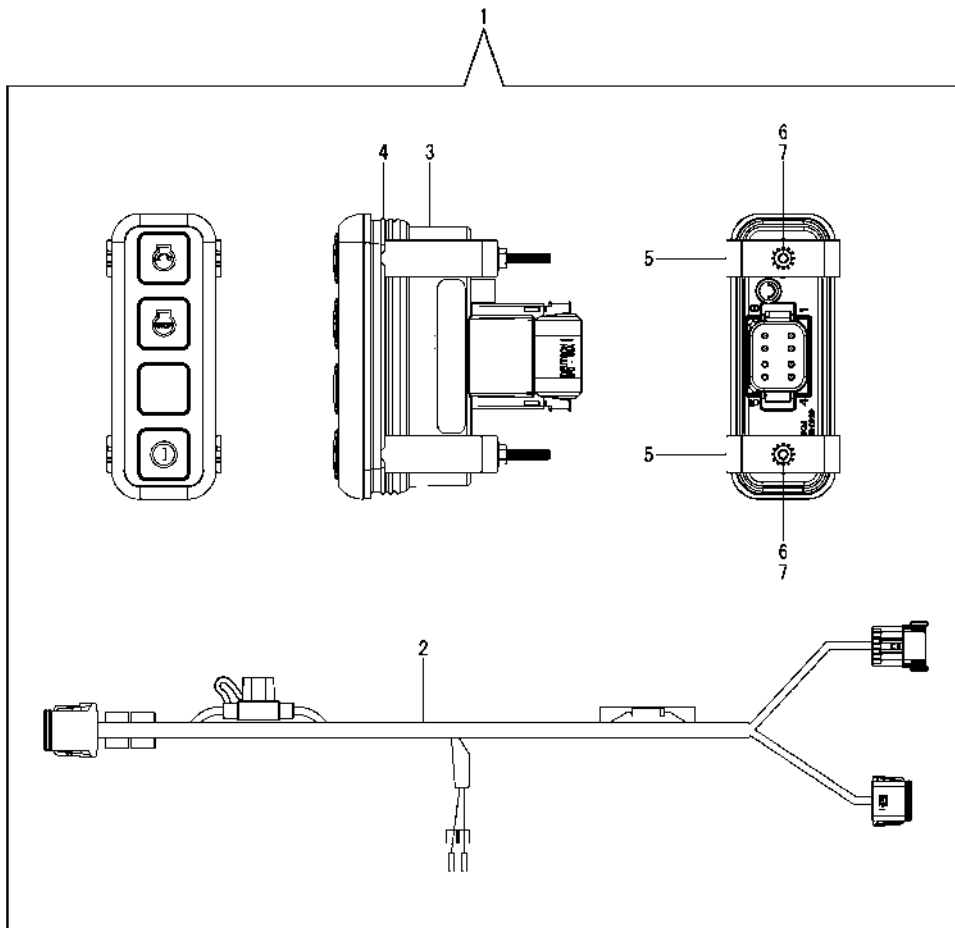
(A)=4JH80
(B)=4JH110
(C)=

(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
2-1	1	164000-22211	HARNESS, EXT 3M	1	1					N	1
(A=*2016.11.) (B=*2016.11.)											
3	1	164000-22220	HARNESS, WIRE 5M	1	1						1
3-1	1	164000-22221	HARNESS, EXT 5M	1	1					N	1
(A=*2016.11.) (B=*2016.11.)											
4	1	164000-22230	HARNESS, WIRE 10M	1	1						1
4-1	1	164000-22231	HARNESS, EXT 10M	1	1					N	1
(A=E52106) (B=E52084)											
5	1	164000-22240	HARNESS, WIRE 20M	1	1						1
5-1	1	164000-22241	HARNESS, EXT 20M	1	1					N	1
(A=*2016.11.) (B=*2016.11.)											

Remarks
(1)Selective parts.

Fig.77. (54C)INSTRUMENT PANEL(A15)(MEDALLION)



				(A)=4JH80 (B)=4JH110 (C)=			(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I	R
1	1	164100-30410	PANEL ASSY, A15	1	1						
1-1	1	164100-30411	PANEL ASSY, A15	1	1					N	
		(A=*2016.06.)	(B=*2016.06.)								
2	2	164100-21130	HARNESS, PANEL EL A	1	1						
3	2	164100-31110	SWITCH, PANEL EL	1	1						
3-1	2	164100-31111	SWITCH, PANEL EL	1	1					N	
		(A=*2016.06.)	(B=*2016.06.)								
4	2	164100-31150	GASKET, SWITCH MD	1	1						
5	2	164100-39120	BRACKET, SWITCH MD	2	2						
6	2	164100-39180	WASHER, LOCK MD	2	2						
7	2	164100-39190	NUT, M3.5 MD	2	2						

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



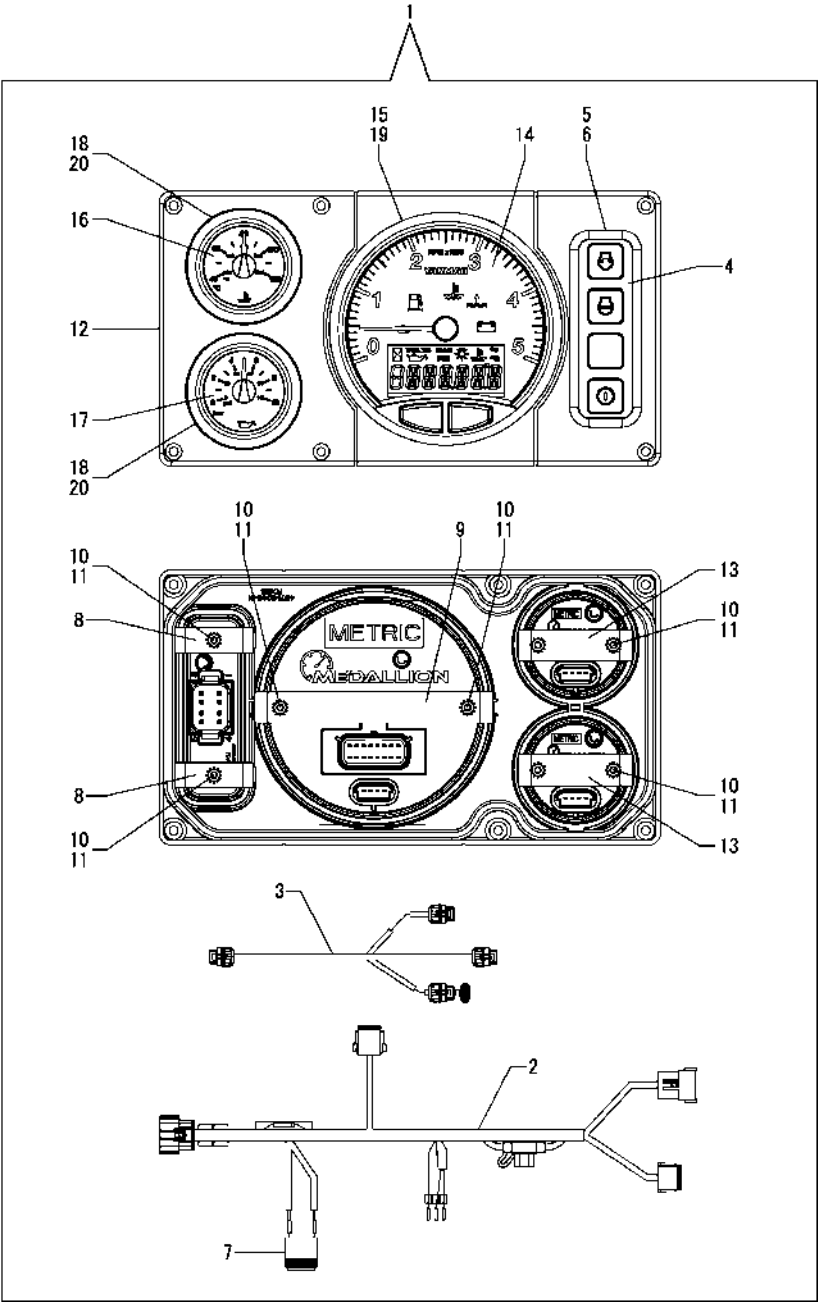
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164100-30110	PANEL ASSY, B25	1	1						
1-1	1	164100-30111	PANEL ASSY, B25	1	1						N
		(A=E51189)	(B=E51180)								
1-2	1	164100-30112	PANEL ASSY, B25	1	1						N
		(A=*2017.11.)	(B=*2017.11.)								
2	2	164100-21110	HARNESS, PANEL EL	1	1						
3	2	164100-31110	SWITCH, PANEL EL	1	1						
3-1	2	164100-31111	SWITCH, PANEL EL	1	1						N
		(A=E51189)	(B=E51180)								
4	2	164100-31150	GASKET, SWITCH MD	1	1						
5	2	164100-31900	BEZEL, SWITCH BK MD	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 MD	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 MD	4	4						
12	2	164100-39190	NUT, M3.5 MD	4	4						
13	2	164100-53110	GAUGE, TACHOMETER	1	1						
13-1	2	164100-53111	GAUGE, TACH LCD 5 EL	1	1						N
		(A=*2017.11.)	(B=*2017.11.)								
14	2	164100-53150	GASKET, GAUGE 5 MD	1	1						
15	2	164100-53900	BEZEL, GAUGE 5 BK MD	1	1						

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

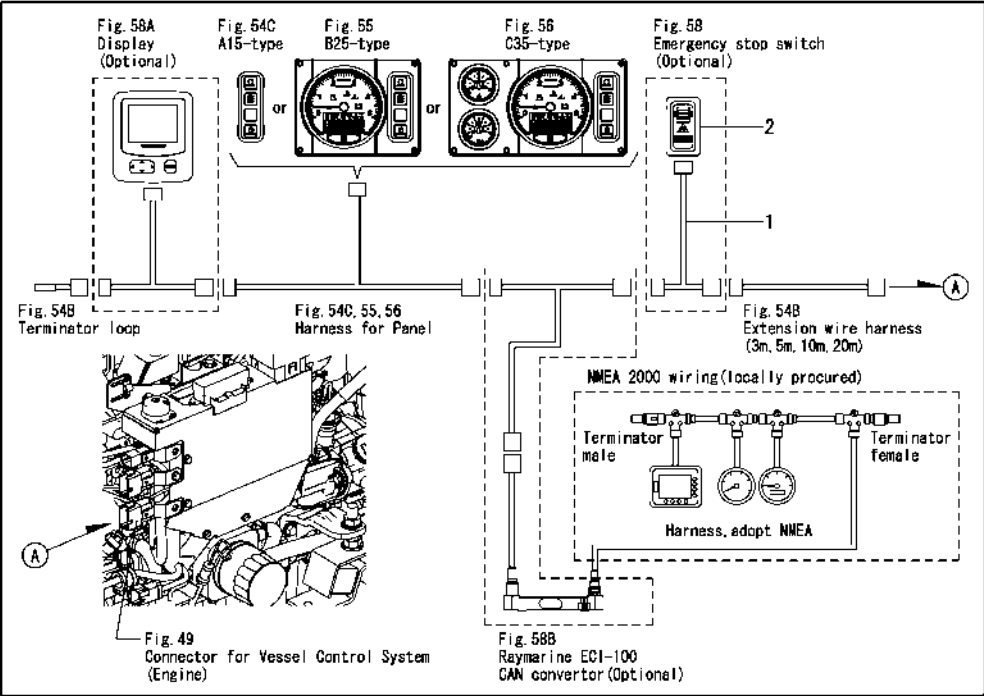
(A)=4JH80
(B)=4JH110
(C)=

(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						
1-1	1	164100-30311	PANEL ASSY, C35	1	1						N
		(A=E51249)	(B=E51226)								
1-2	1	164100-30312	PANEL ASSY, C35	1	1						N
		(A=*2017.11.)	(B=*2017.11.)								
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						
4-1	2	164100-31111	SWITCH, PANEL EL	1	1						N
		(A=E51249)	(B=E51226)								
5	2	164100-31150	GASKET, SWITCH MD	1	1						
6	2	164100-31900	BEZEL, SWITCH BK MD	1	1						
7	2	164100-36100	BUZZER, PANEL	1	1						
8	2	164100-39120	BRACKET, SWITCH MD	2	2						
9	2	164100-39131	BRACKET, GAUGE 5 MD	1	1						
10	2	164100-39180	WASHER, LOCK MD	8	8						
11	2	164100-39190	NUT, M3.5 MD	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, TACHOMETER	1	1						
14-1	2	164100-53111	GAUGE,TACH LCD 5 EL	1	1						N
		(A=*2017.11.)	(B=*2017.11.)								
15	2	164100-53150	GASKET, GAUGE 5 MD	1	1						
16	2	164100-53200	GAUGE, TEMPERATURE	1	1						
17	2	164100-53210	GAUGE, 2 MD	1	1						
18	2	164100-53250	GASKET, GAUGE 2 MD	2	2						
19	2	164100-53900	BEZEL, GAUGE 5 BK MD	1	1						
20	2	164100-53920	BEZEL, GAUGE 2 BK MD	2	2						

Fig.58. EMERGENCY STOP SWITCH(FOR A15, 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	164000-21301	HARNESS, WIRE E-STOP	1	1						
1-1	1	164000-21302	HARNESS, WIRE E-STOP	1	1						N
(A)=*2016.11.) (B)=*2016.11.)											
2	1	164100-31500	PANEL,E-STOP	1	1						

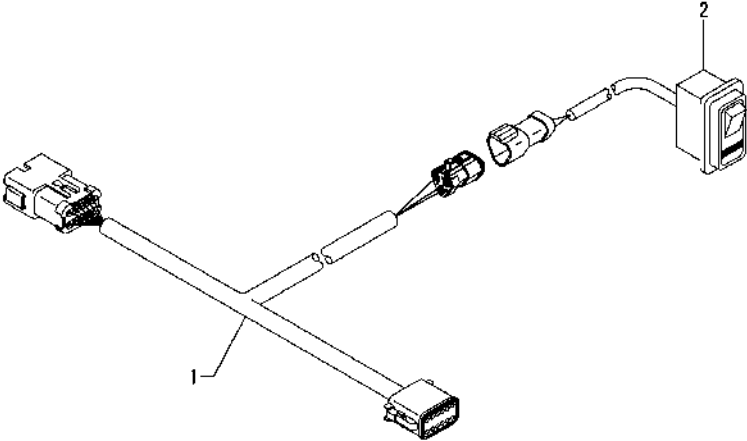
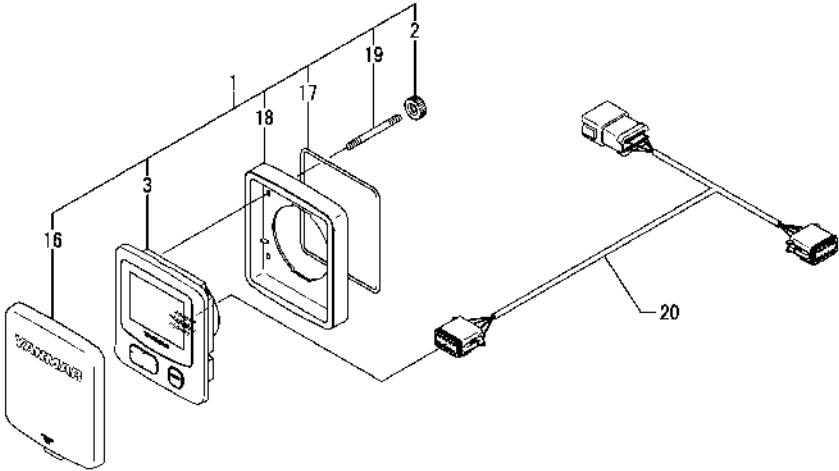
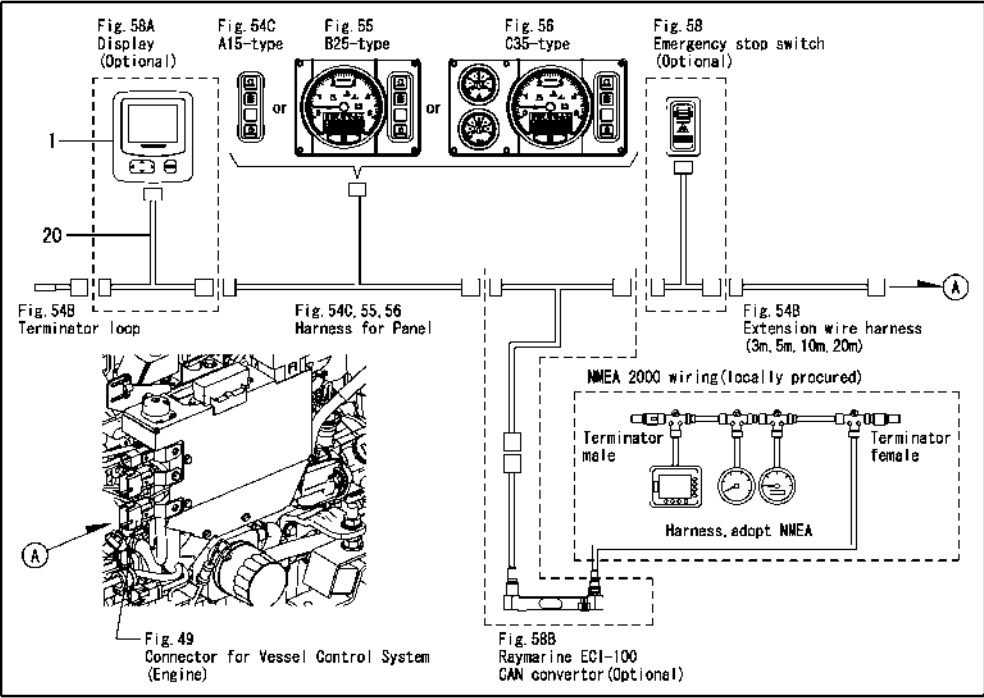


Fig.78. (58A)DISPLAY(FOR A15, B25, C35 PANEL)(OPTIONAL)

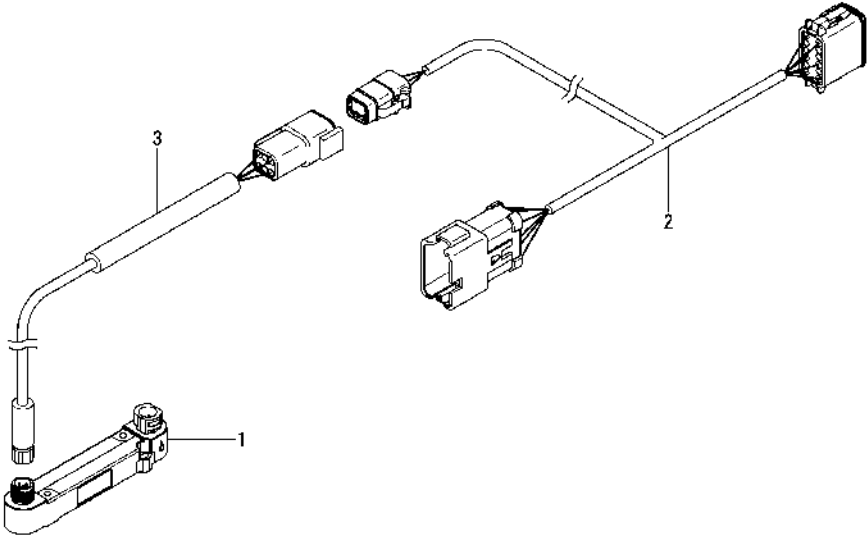
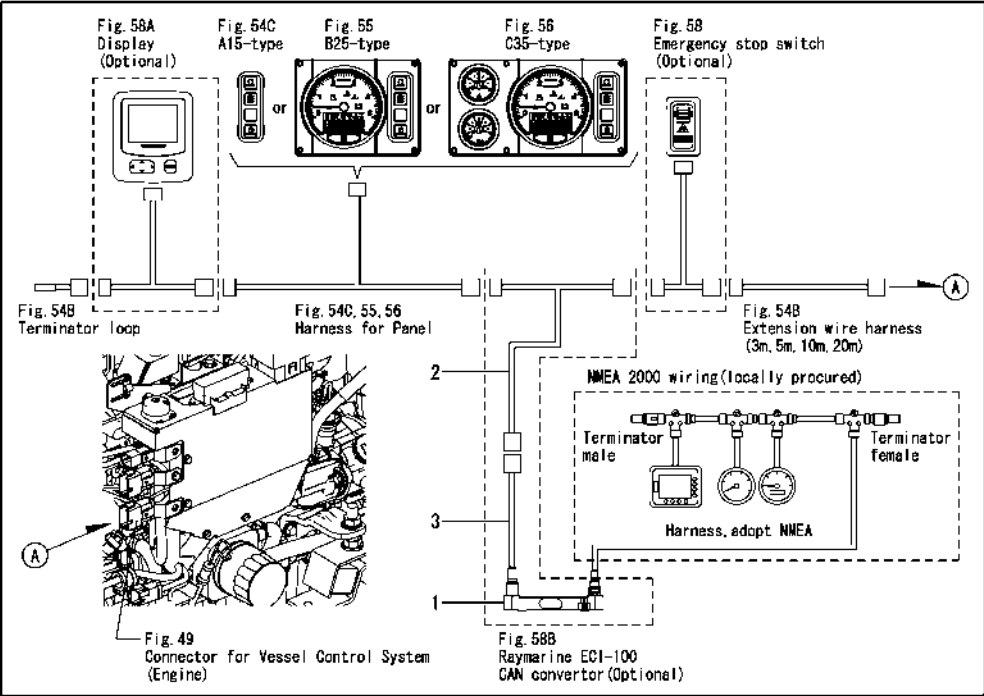


(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-51047	DISPLAY ASSY,VC10-2	1	1						
2	2	164000-37360	NUT, PLASTIC M4	4	4						
3	2	164000-51020	DISPLAY ASSY, VC10	1	1						
16	2	164000-51031	COVER,DISPLAY	1	1						
17	2	164000-51110	GASKET, SPACER	1	1						
18	2	164000-51211	SPACER, DISPLAY	1	1						
19	2	164000-51310	STUD, M4X50	4	4						
20	1	164000-21340	HARNESS, WIRE	1	1						

Fig.79. (58B)CAN CONVERTOR(FOR A15, B25, C35 PANEL)(OPTIONAL)

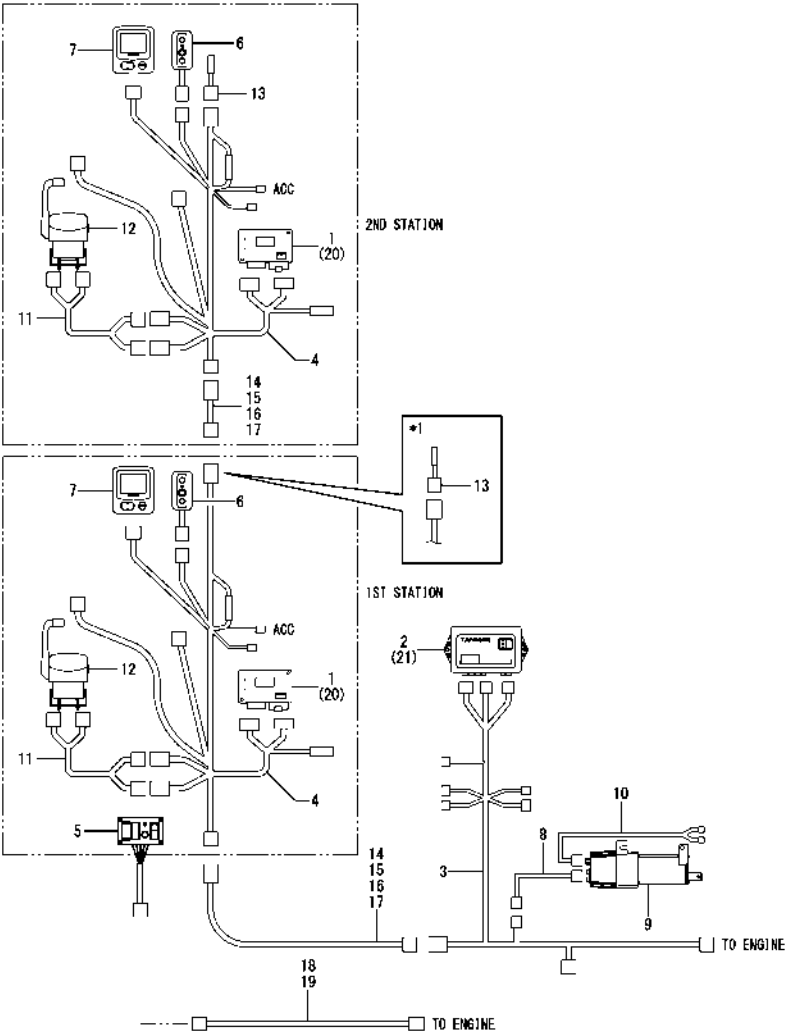


(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-17000	CONVERTER, CAN	1	1						
2	1	164000-21350	HARNES, WIRE	1	1						
3	1	164000-24801	CABLE,CAN A	1	1						

Fig.80. (58C)VC10(SINGLE ENGINE)(OPTIONAL)



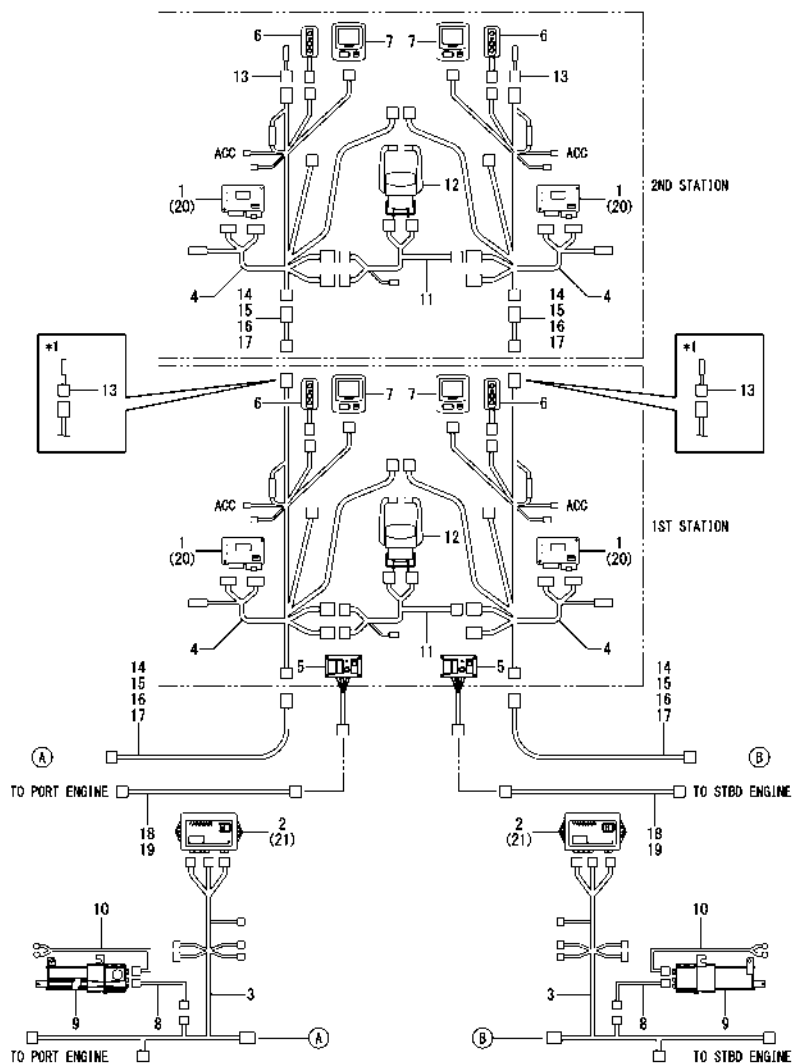
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-10000	CONTROLLER ASSY	2	2						1
2	1	164000-10830	CONTROLLER ASSY,JH	1	1						1
3	1	164000-21321	HARNESS,WIRE DRIVE C	1	1						
4	1	164000-21501	HARNESS,HELM EPS	2	2						
5	1	164000-30012	PANEL ASSY,BACK UP	1	1						3
6	1	164000-37011	PANEL, SWITCH	2	2						3
7	1	164000-51047	DISPLAY ASSY,VC10-2	2	2						3
8	1	164000-24801	CABLE,CAN A	1	1						
9	1	164000-44000	ACTUATOR, SHIFT	1	1						
10	1	164000-21400	HARNESS,SHIFTACT PWR	1	1						
11	1	164000-21220	HARNESS, WIRE	2	2						
12	1	164000-41010	HEAD, CONTROL	2	2						
13	1	164000-29000	ADAPTER, TERMINAL	1	1						
14	1	164000-22211	HARNESS, EXT 3M	2	2						4
15	1	164000-22221	HARNESS, EXT 5M	2	2						4
16	1	164000-22231	HARNESS, EXT 10M	2	2						4
17	1	164000-22241	HARNESS, EXT 20M	2	2						4
18	1	164000-22260	HARNESS, WIRE 5M	1	1						4
19	1	164000-22270	HARNESS, WIRE 10M	1	1						4
20	1	164000-10210	CONTROLLER ASSY	2	2						2
21	1	164000-10200	CONTROLLER ASSY	1	1						2

Remarks
*1. For single station, be sure to connect No.16 Adapter, terminal here.
(1)Eco Controller
This part cannot be ordered.
Spare the part using a Service Controller with the proper engine information installed.
(2)Service Controller
If the proper information is not installed, the engine will not operate.
To install proper information, go to an authorized distributor.
(3)Inner parts are shown in Fig.82(58E).
(4)Selective parts.

Fig.81. (58D)VC10(TWIN ENGINE)(OPTIONAL)



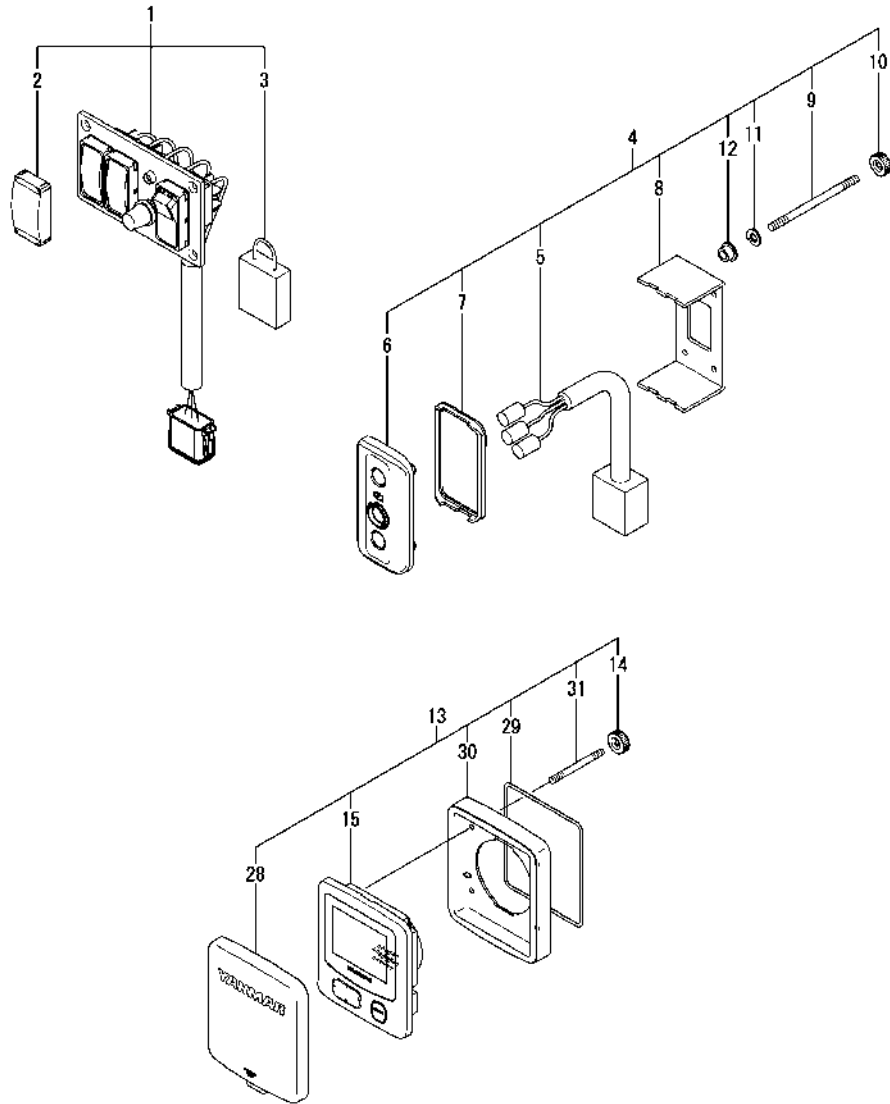
Remarks
*1. For single station, be sure to connect No.16 Adapter, terminal here.
(1)Eco Controller
This part cannot be ordered.
Spare the part using a Service Controller with the proper engine information installed.
(2)Service Controller
If the proper information is not installed, the engine will not operate.
To install proper information, go to an authorized distributor.
(3)Inner parts are shown in Fig.82(58E).
(4)Selective parts.

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

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

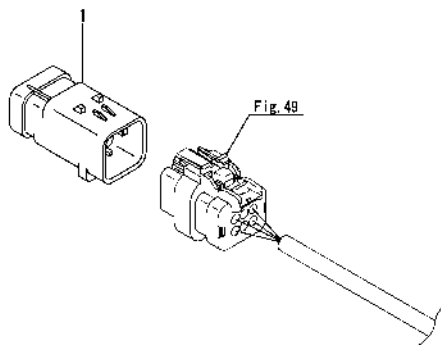
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-10000	CONTROLLER ASSY	4	4						1
2	1	164000-10830	CONTROLLER ASSY,JH	2	2						1
3	1	164000-21321	HARNESS,WIRE DRIVE C	2	2						
4	1	164000-21501	HARNESS,HELM EPS	4	4						
5	1	164000-30012	PANEL ASSY,BACK UP	2	2						3
6	1	164000-37011	PANEL, SWITCH	4	4						3
7	1	164000-51047	DISPLAY ASSY,VC10-2	4	4						3
8	1	164000-24801	CABLE,CAN A	2	2						
9	1	164000-44000	ACTUATOR, SHIFT	2	2						
10	1	164000-21400	HARNESS,SHIFTACT PWR	2	2						
11	1	164000-21212	HARNESS,WIRE CH	2	2						
12	1	164000-41030	HEAD, CONTROL	2	2						
13	1	164000-29000	ADAPTER, TERMINAL	2	2						
14	1	164000-22211	HARNESS, EXT 3M	4	4						4
15	1	164000-22221	HARNESS, EXT 5M	4	4						4
16	1	164000-22231	HARNESS, EXT 10M	4	4						4
17	1	164000-22241	HARNESS, EXT 20M	4	4						4
18	1	164000-22260	HARNESS, WIRE 5M	2	2						4
19	1	164000-22270	HARNESS, WIRE 10M	2	2						4
20	1	164000-10210	CONTROLLER ASSY	4	4						2
21	1	164000-10200	CONTROLLER ASSY	2	2						2

Fig.82. (58E)VC10(DISPLAY & PANEL)(INNER PARTS)



No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	164000-30012	PANEL ASSY,BACK UP	1	1					
2	2	164000-29020	COVER, SWITCH	1	1					
3	2	164000-29050	JUMPER, STOP	1	1					
4	1	164000-37011	PANEL, SWITCH	1	1					
5	2	164000-29010	HARNESS, WIRE	1	1					
6	2	164000-37021	FRAME, SWITCH PANEL	1	1					
7	2	164000-37110	GASKET, SWITCH PANEL	1	1					
8	2	164000-37210	RETAINER, PANEL	1	1					
9	2	164000-37310	STUD, M4X70	4	4					
10	2	164000-37360	NUT, PLASTIC M4	4	4					
11	2	164000-37410	WASHER, SPRING 4	4	4					
12	2	164000-37460	COLLAR, PLASTIC 4	4	4					
13	1	164000-51047	DISPLAY ASSY,VC10-2	1	1					
14	2	164000-37360	NUT, PLASTIC M4	4	4					
15	2	164000-51020	DISPLAY ASSY, VC10	1	1					
28	2	164000-51031	COVER,DISPLAY	1	1					
29	2	164000-51110	GASKET, SPACER	1	1					
30	2	164000-51211	SPACER, DISPLAY	1	1					
31	2	164000-51310	STUD, M4X50	4	4					

Fig.83. (58F)CAP(THROTTLE CONNECTOR)(FOR VC10, S2 DRIVE)

[illegible]

Remarks

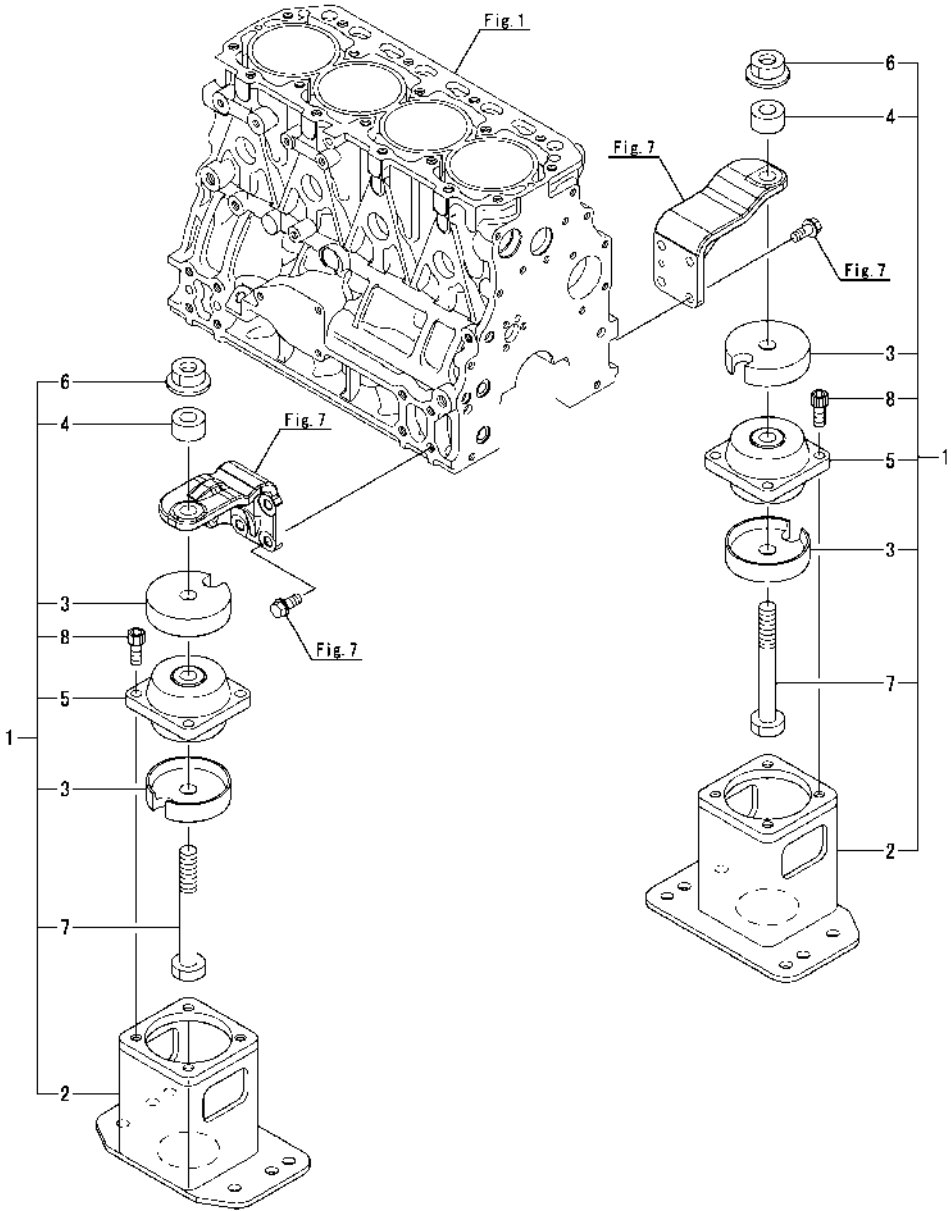
* S2 drive specification is applicable only to 4JH80.

(1) Since the throttle sensor in Fig.57(54A) is not used in the VC10 specification and S2 drive specification, this part is attached as a waterproof cap of the throttle sensor connector of Fig.49 No.7 wire harness.

Fig.60. FLEXIBLE MOUNT(FOR S2 DRIVE)

(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	129671-08220	MOUNT ASSY, ABSORBER	2							
2	2	129671-08230	SUPPORT, MOUNT	2							
3	2	129671-08240	PLATE, ABSORBER	4							
4	2	129671-08250	SPACER, ABSORBER	2							
5	2	129671-08260	RUBBER, MOUNT	2							
6	2	129671-08270	NUT, M16	2							
7	2	129671-08280	BOLT, M16	2							
8	2	129671-08290	BOLT,10X25	8							

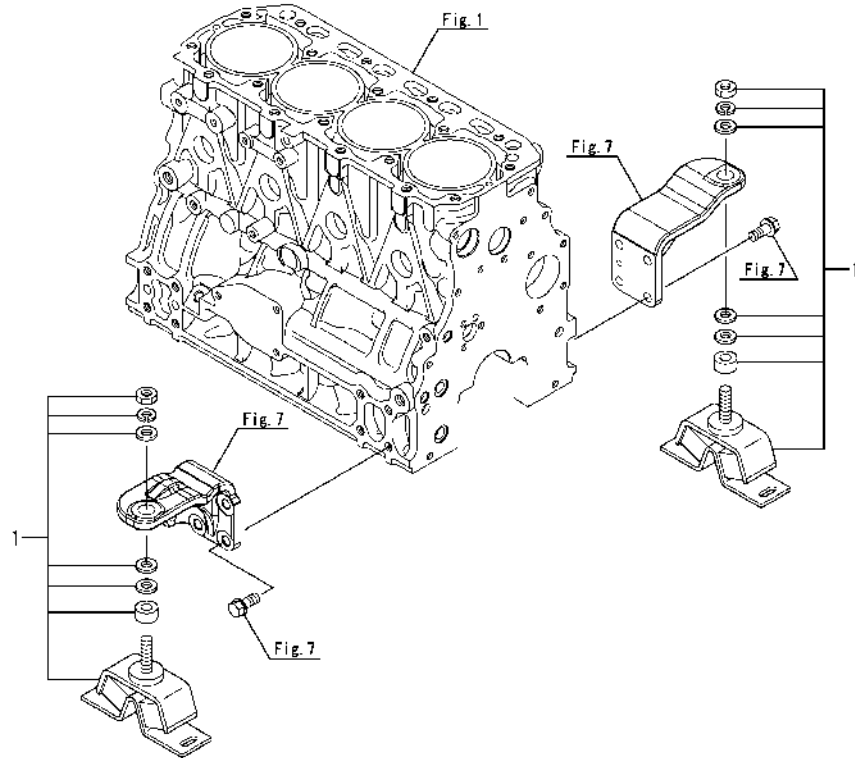
Fig.84. (60A)FLEXIBLE MOUNT(FOR KM4A2, KMH4A, ZF, CLUTCHLESS)

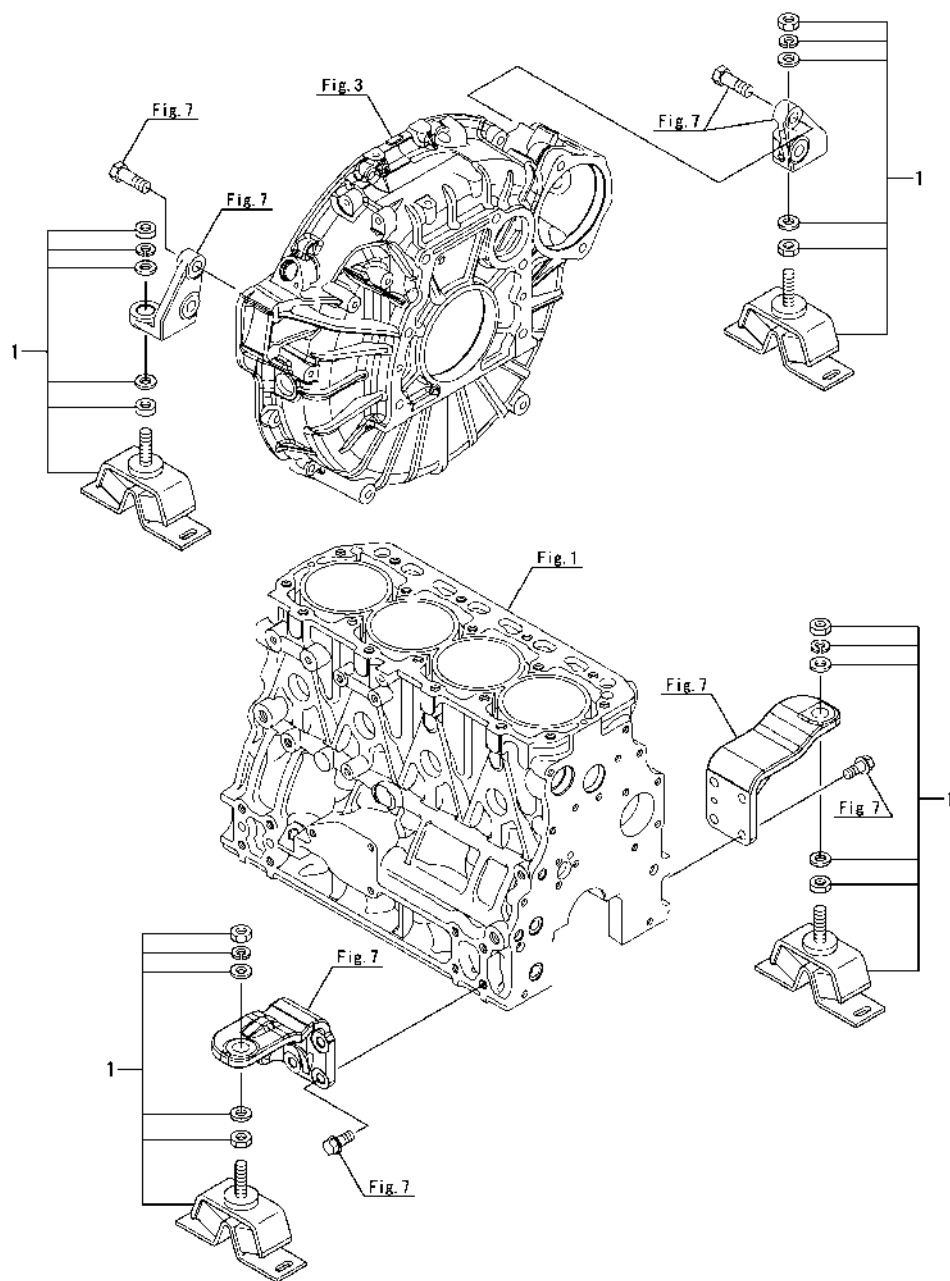


(D)=
(E)=
(F)=

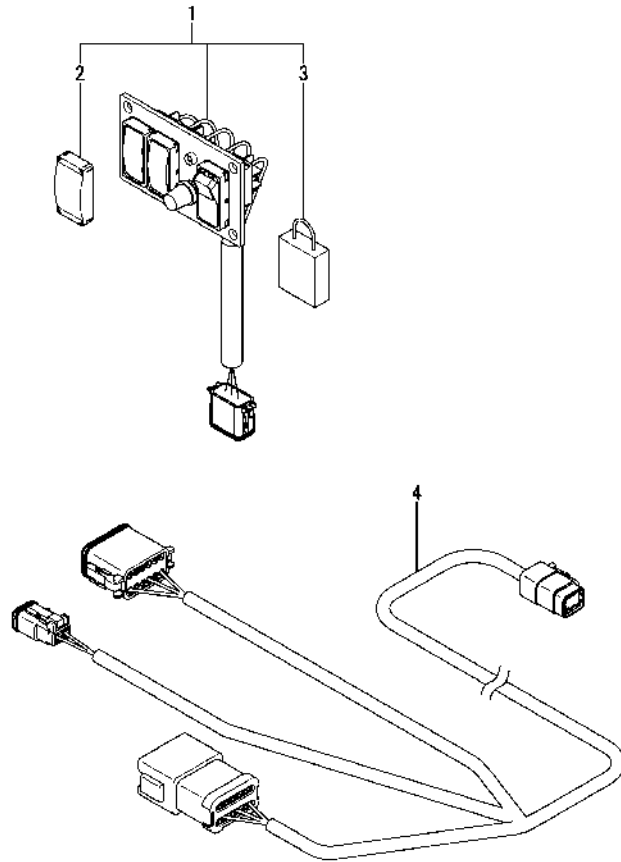
[illegible]

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-08390	MOUNT ASSY, FLEXIBLE	2							





No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	120149-08441	MOUNT, FLEXIBLE 300		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	164000-30012	PANEL ASSY,BACK UP		1								
2	2	164000-29020	COVER, SWITCH		1								
3	2	164000-29050	JUMPER, STOP		1								
4	1	129676-77150	HARNESS, VMU		1								

Fig.88. (60E)EXTENSION HARNESS(FOR S2 DRIVE)(OPTIONAL)

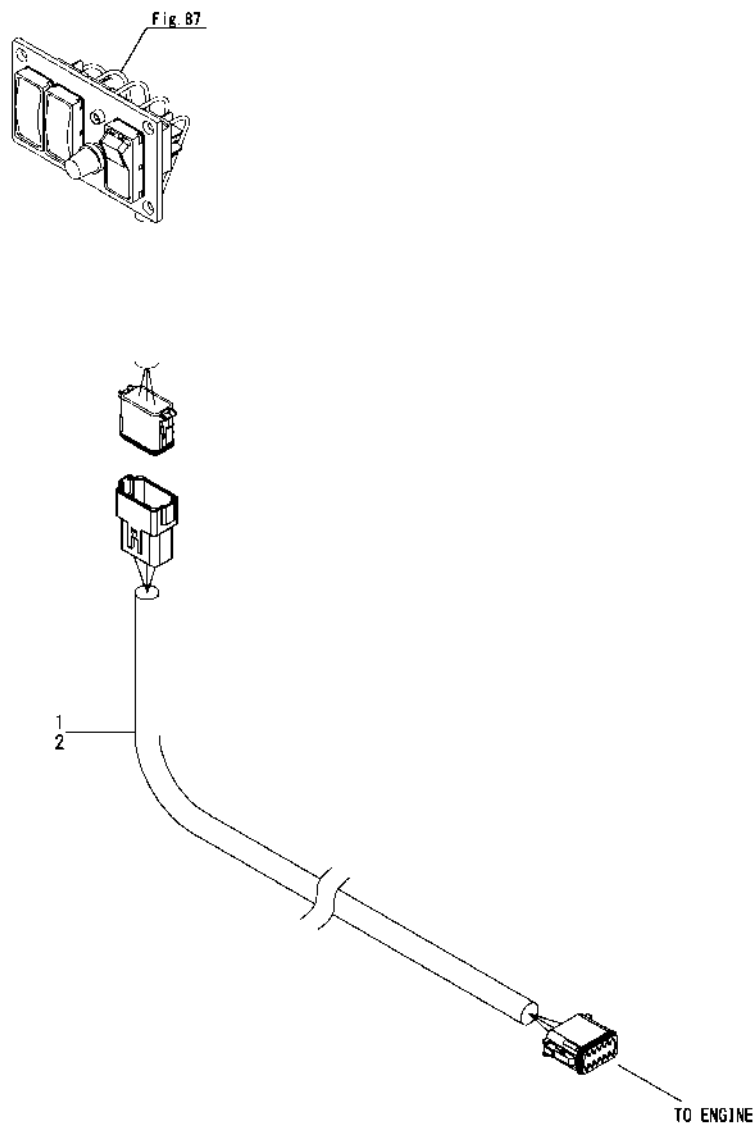
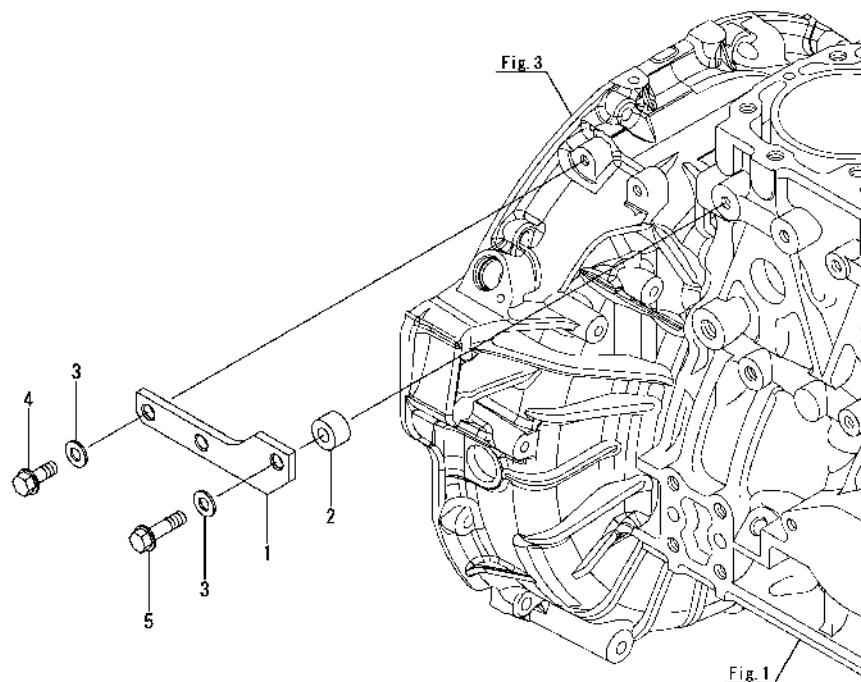
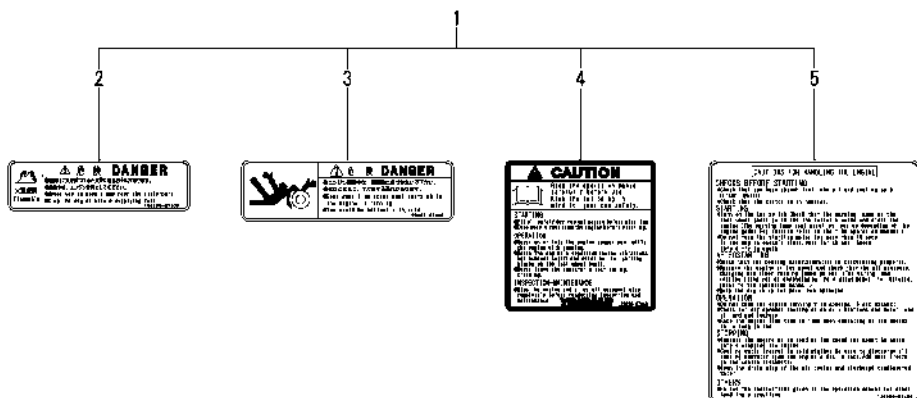
[illegible]

Fig.89. (60F)SUPPORT(FLYWHEEL HOUSING)(FOR S2 DRIVE)



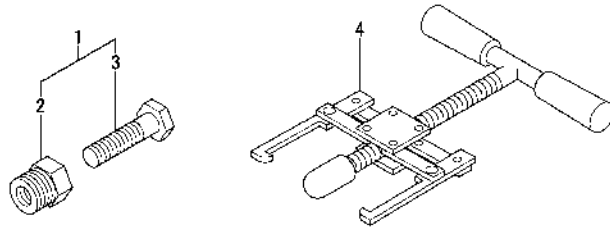
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129676-01940	SUPPORT,FWH	1							
2	1	129671-01960	SPACER,SUPPORT	1							
3	1	22137-080000	WASHER, 8	3							
4	1	26106-080202	BOLT, M8X 20 PLATED	2							
5	1	26106-080302	BOLT, M8X 30 PLATED	1							

Fig.61. LABEL(SAFETY)(BUNDLED ITEMS)



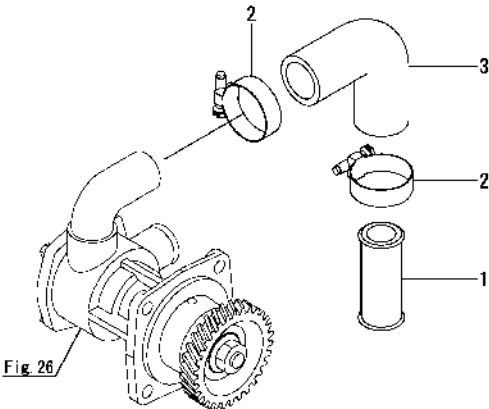
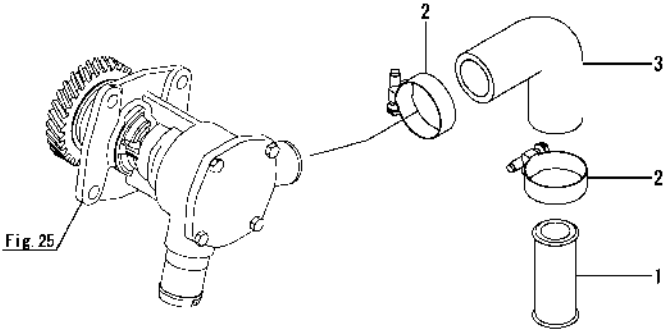
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128377-07190	LABEL,LOOSE PARTS	1	1						
1-1	1	128296-07190	LABEL, LOOSE PARTS	1	1						R
		(A=E50450)	(B=E50562)								
2	2	128377-07400	LABEL,DANGER	2	2						
2-1	2	128296-07400	LABEL, DANGER	2	2						R
		(A=E50450)	(B=E50562)								
3	2	128377-07420	LABEL,DANGER	1	1						
3-1	2	128296-07420	LABEL, DANGER	1	1						R
		(A=E50450)	(B=E50562)								
4	2	128377-07450	LABEL,CAUTION	1	1						
4-1	2	128296-07450	LABEL, CAUTION	1	1						R
		(A=E50450)	(B=E50562)								
5	2	128377-07460	LABEL,CAUTION	1	1						
5-1	2	128296-07460	LABEL, OPERATION	1	1						R
		(A=E50450)	(B=E50562)								

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



Remarks
(1)Optional parts.

Fig.62. SEA WATER PUMP INLET JOINT(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	129490-49070	JOINT	1	1						
2	1	129670-49500	CLIP, HOSE 38	2	2						
3	1	129171-49900	JOINT, WATER PUMP IN	1	1						

Fig.63. REMOTE CONTROL HEAD(OPTIONAL)

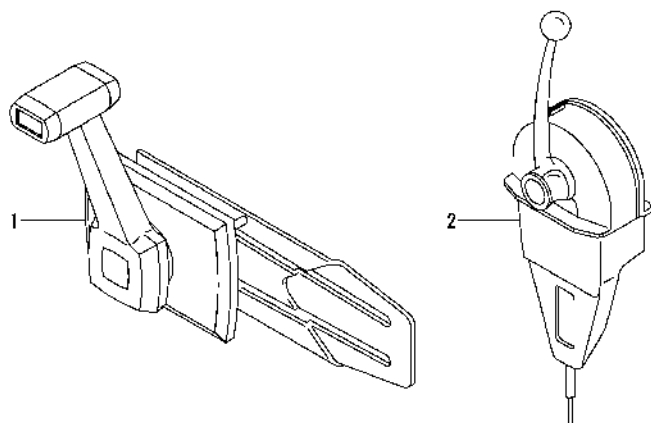
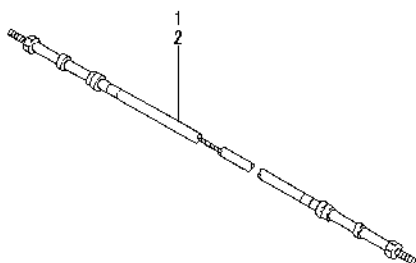
[illegible]

Fig.64. REMOTE CONTROL CABLE(OPTIONAL)

[illegible]

Remarks
(1)4m.
(2)7m.

Parts No. Index

Parts No.	Fig. No.	Ref. No.
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129A00-57200	40	5
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164000-10210	80	20
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