

0CF50-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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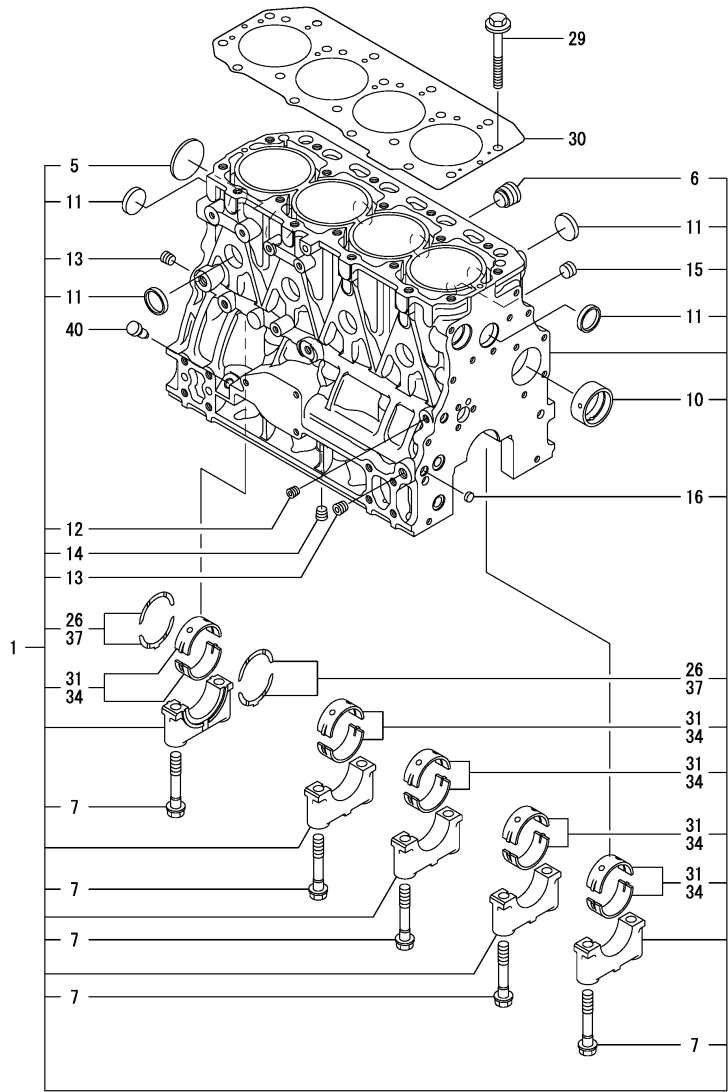
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- 87. (60D)WIRE HARNESS(FOR S2 DRIVE)
- 88. (60E)EXTENSION HARNESS(FOR S2 DRIVE)(OPTIONAL)
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4JH80/110

Fig.1. CYLINDER BLOCK



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

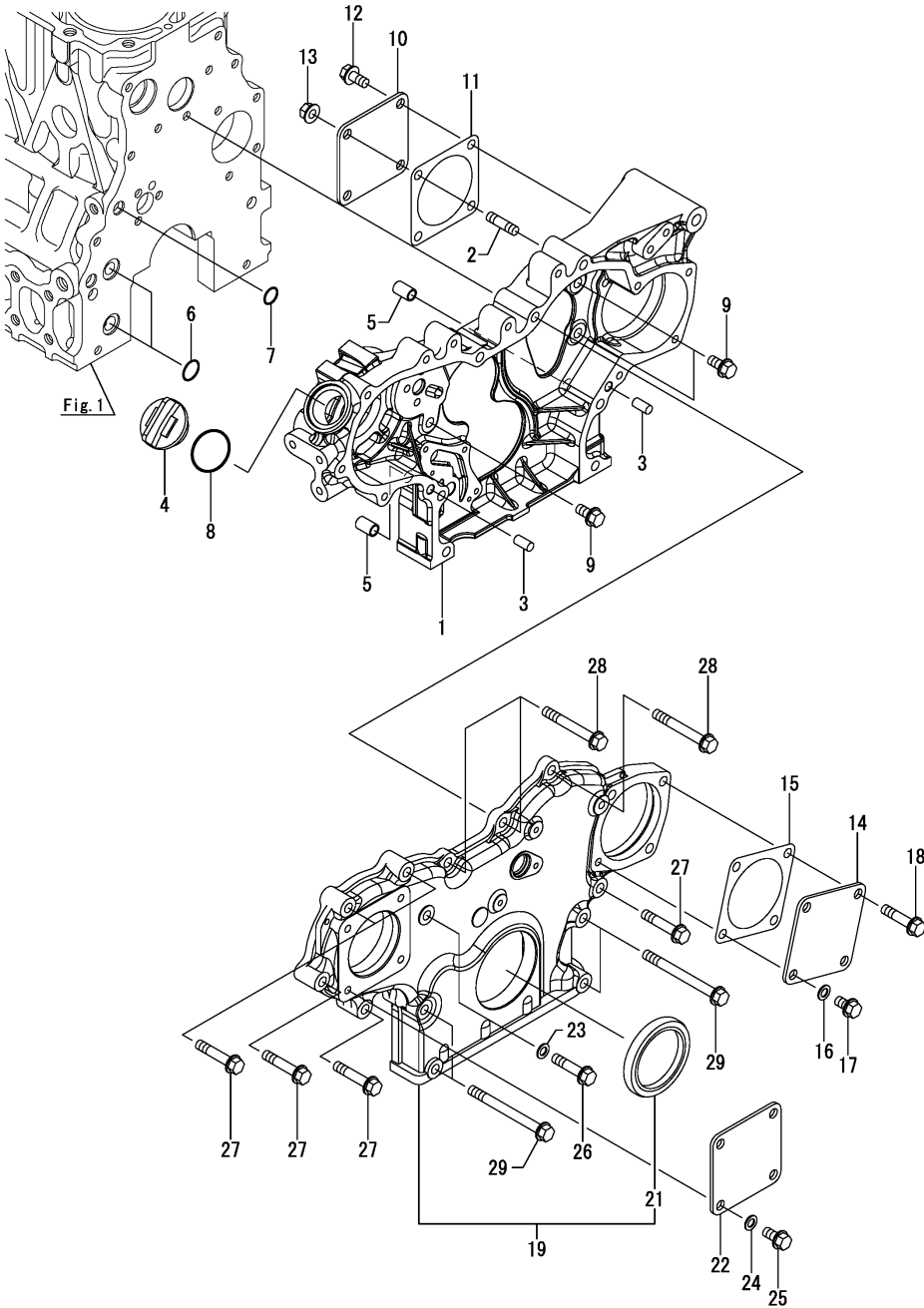
OCF50-M00091 Fig.1

(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	129677-01560	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						

Fig.2. GEAR HOUSING



OCF50-M00091 Fig.2

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

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

Q'ty

I R

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
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						

N:Old

Yes
No

New

Q:Old

No
Yes

New

R:Old

Yes
No

New

S:Old

No
Yes

New

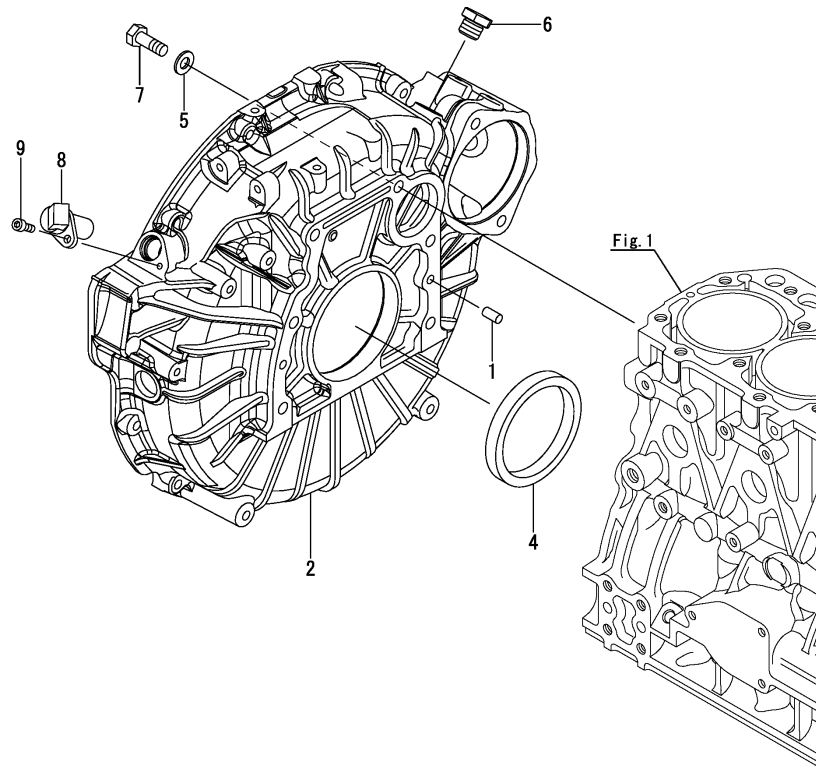
W:Add

Z:Discontinued

F:Interchangeable by set

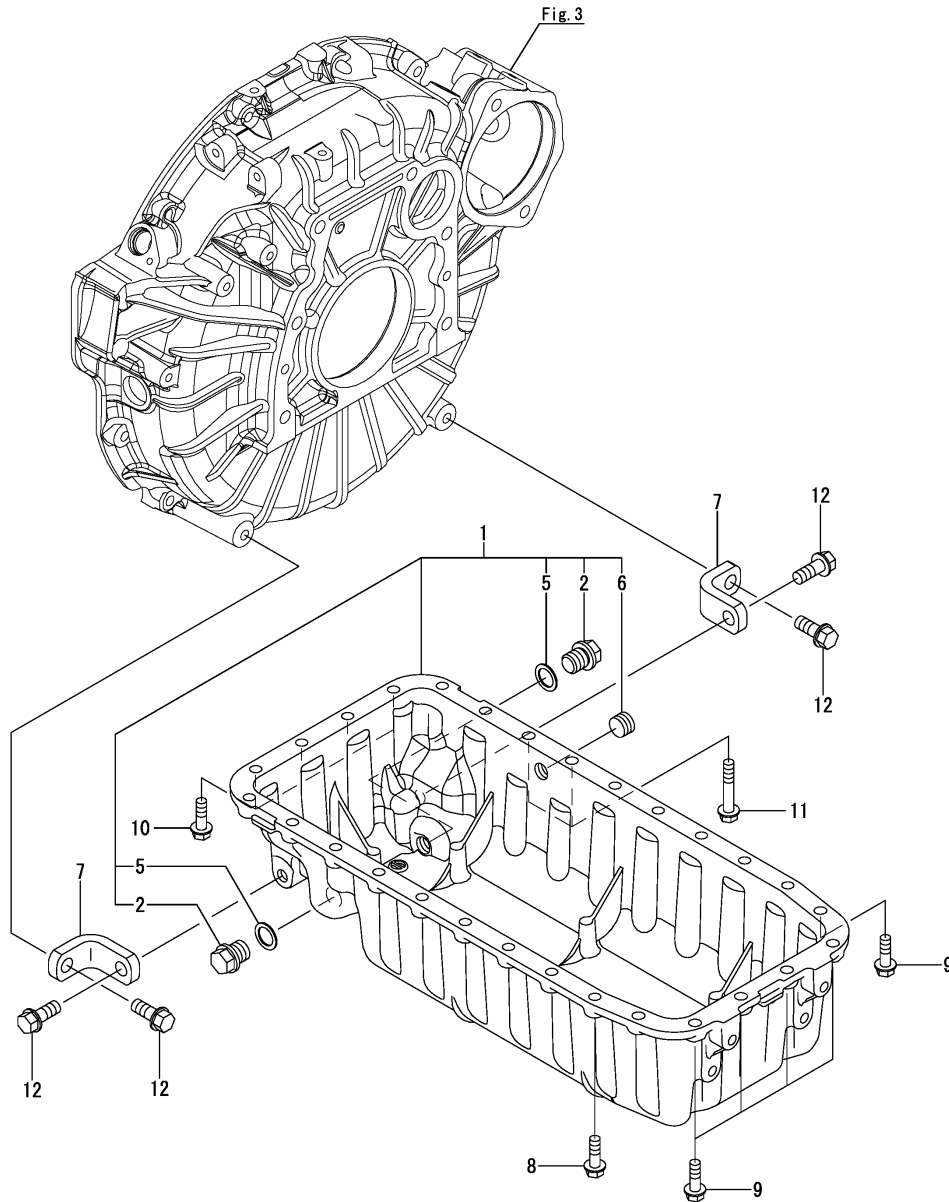
K:Q'ty Change

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[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	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						

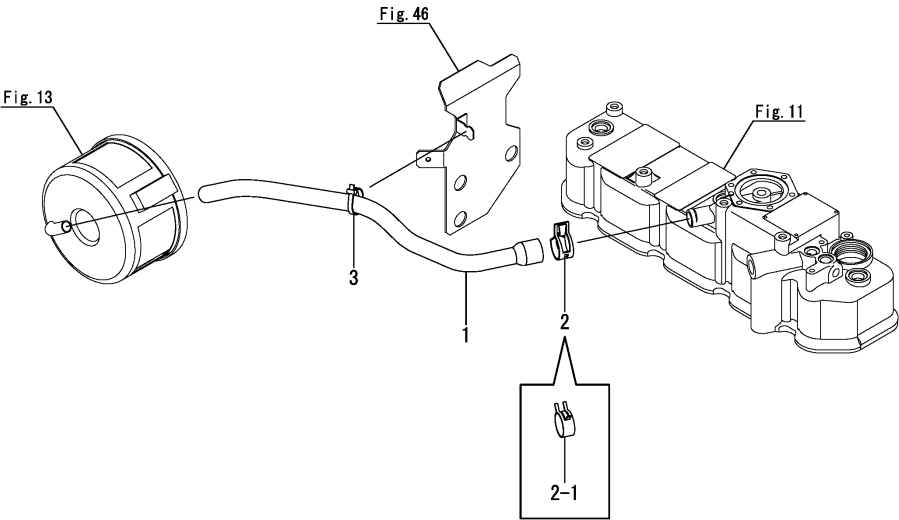
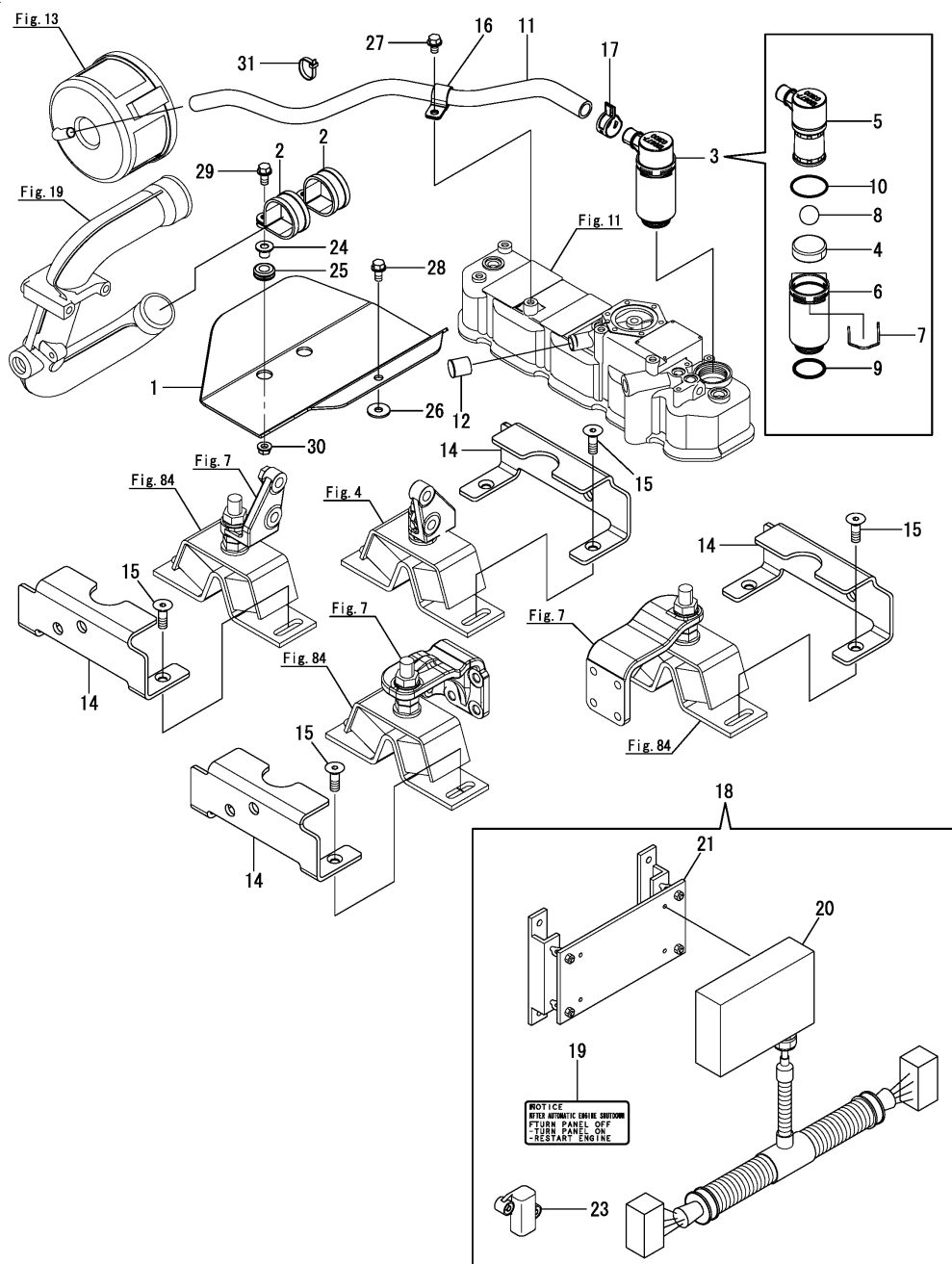
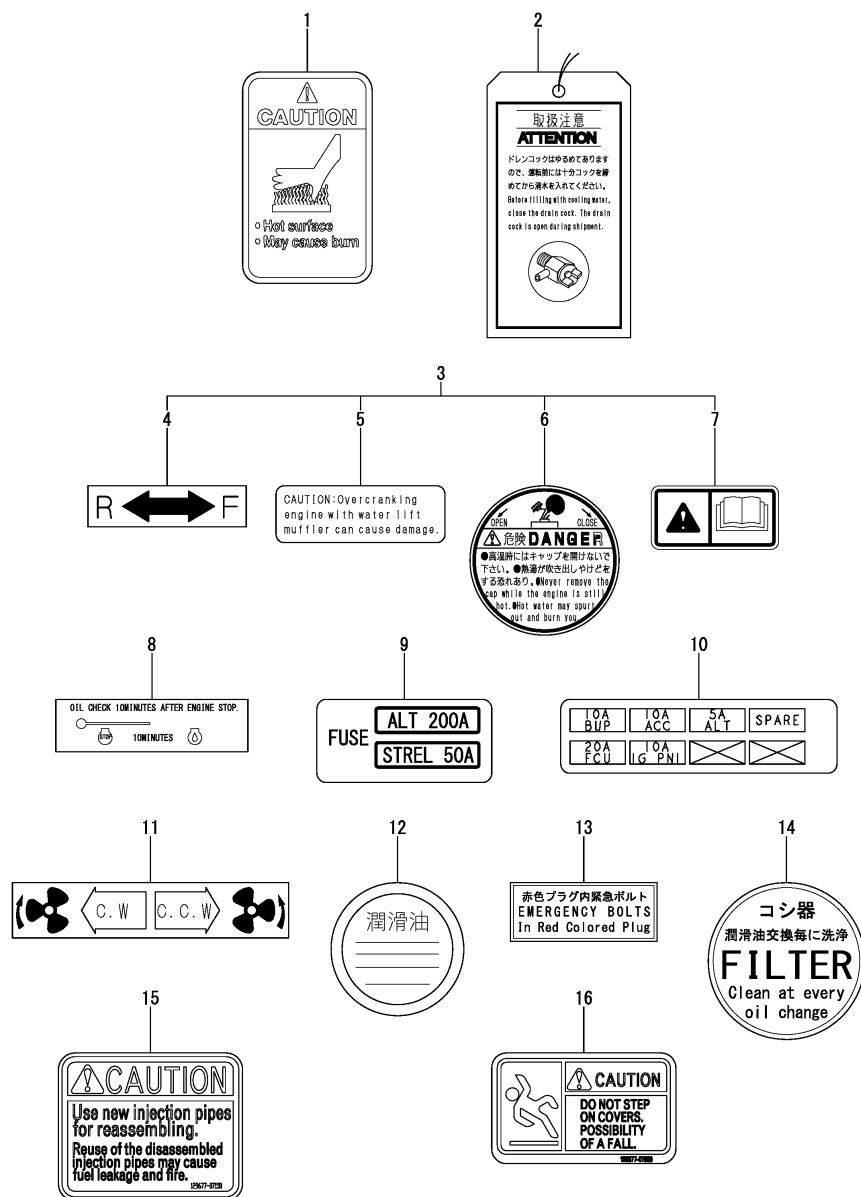


Fig.90. (5A)BREATHER(SOLAS SPEC.)(OPTIONAL)



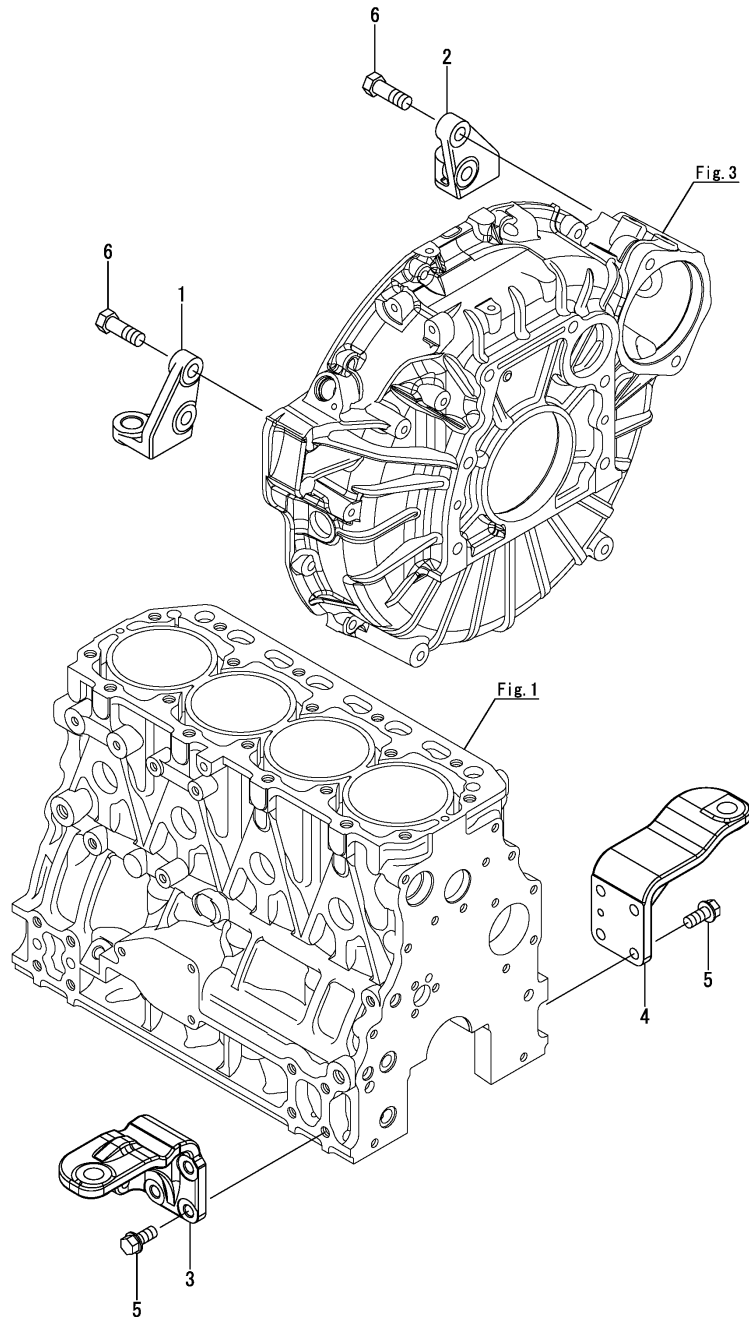
No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129677-01910	PLATE, SPLASH	1	1				
2	1	129677-01920	CLAMP, 44	2	2				
3	1	129677-03100	VALVE ASSY, OIL STOP	1	1				
4	2	121850-03050	FILTER, BREATHER	1	1				
5	2	129677-03110	BODY, OIL STOP VALVE	1	1				
6	2	129677-03120	HOUSING, OIL STOP VA	1	1				
7	2	129677-03130	CLIP, LOCK	1	1				
8	2	24190-280001	BALL, STEEL 7/8	1	1				
9	2	24311-000320	O-RING, 1AP32.0	1	1				
10	2	24341-000400	O-RING, 1AS40.0	1	1				
11	1	129677-03140	HOSE, BREATHER	1	1				
12	1	129677-03150	CAP, BREATHER BONNET	1	1				
14	1	129677-08950	STOPPER,RUBBER MOUNT	4	4				
15	1	129677-08960	BOLT,M10X30 STOPPER	8	8				
16	1	119778-26660	RETAINER	1	1				
17	1	124398-49700	CLIP, HOSE 24.0	1	1				
18	1	129677-77500	BOX ASSY,SOLAS SWITC	1	1				
19	2	129677-07220	LABEL,CAUTION	1	1				
20	2	129677-77510	HARNESS ASSY,TILT SW	1	1				
21	2	120662-77530	BRACKET,SWITCH BOX	1	1				
23	2	119175-91510	SWITCH, TURN OVER	1	1				
24	1	119578-77680	COLLAR, CONTROLLER	2	2				
25	1	119578-91351	RUBBER, CONTROLLER	2	2				
26	1	22157-080000	WASHER, 8	1	1				
27	1	26106-080122	BOLT, M8X 12 PLATED	1	1				
28	1	26106-080162	BOLT, M8X 16 PLATED	1	1				
29	1	26106-080252	BOLT, M8X 25 PLATED	2	2				
30	1	26366-080002	NUT, M8	2	2				
31	1	29621-200001	BAND, TR200	1	1				



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

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
15	1	129677-07150	LABEL, CAUTION INJ-P	1	1						W
		(A)=E50450)	(B)=E50562)								
16	1	129677-07850	LABEL, CAUTION	1	1						W
		(A)=E50718)	(B)=E50711)								

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
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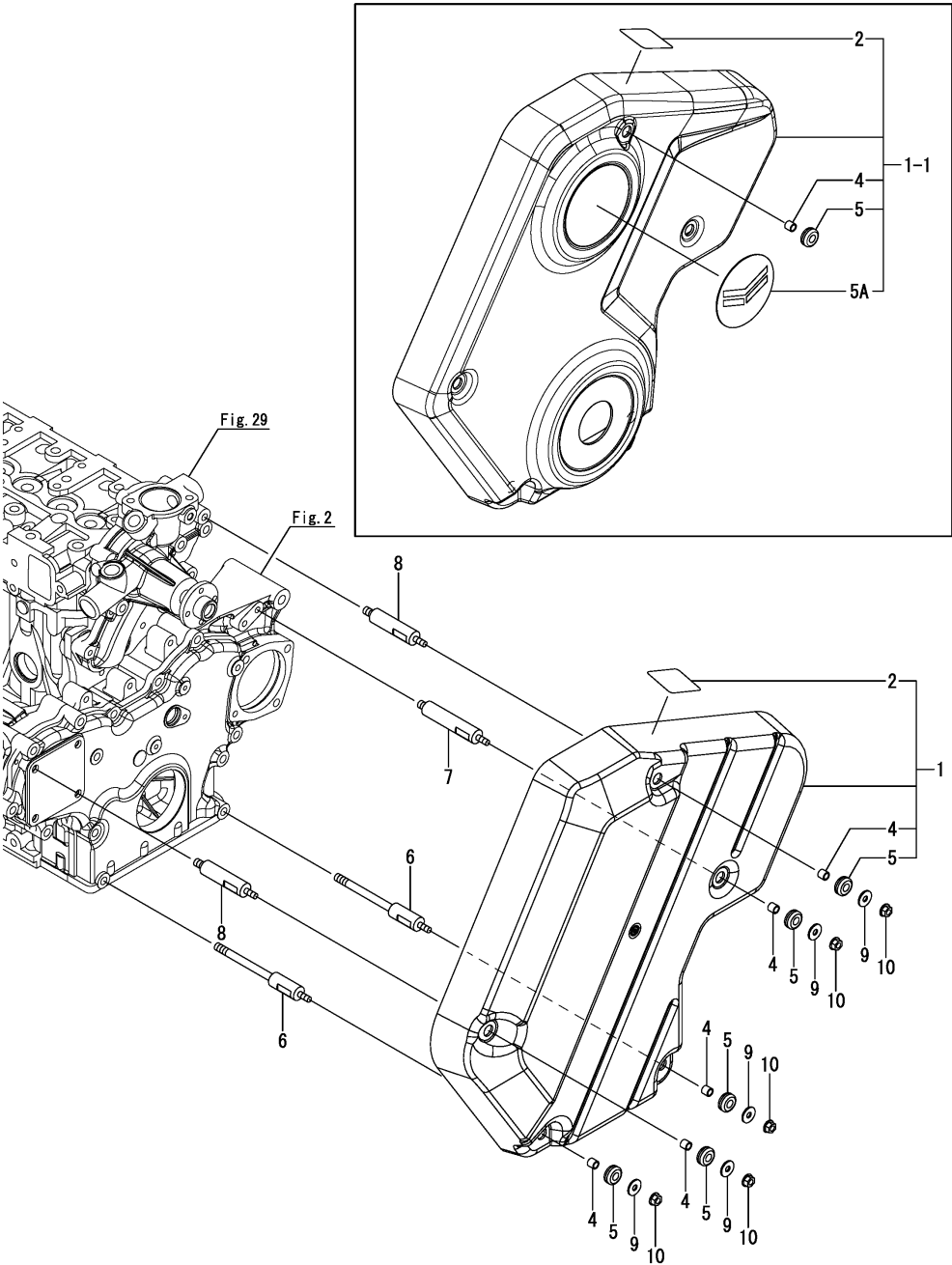


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-08150	FOOT, MOUNTING C	1	1						
2	1	129671-08160	FOOT, MOUNTING D	1	1						
3	1	129671-08211	FOOT, MOUNTING	1	1						
4	1	129670-08220	FOOT, MOUNTING B	1	1						
5	1	26106-100222	BOLT, M10X 22 PLATED	8	8						
6	1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

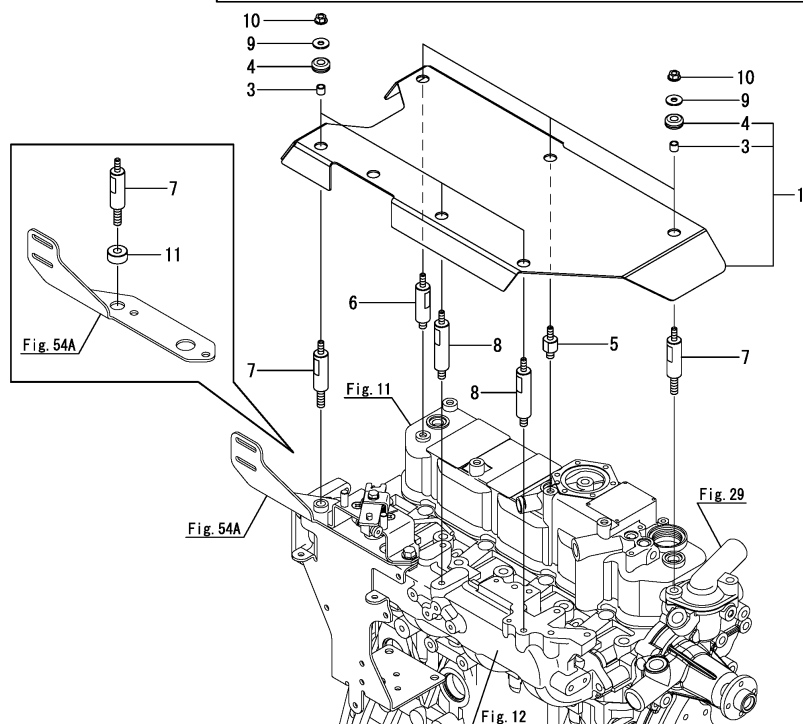
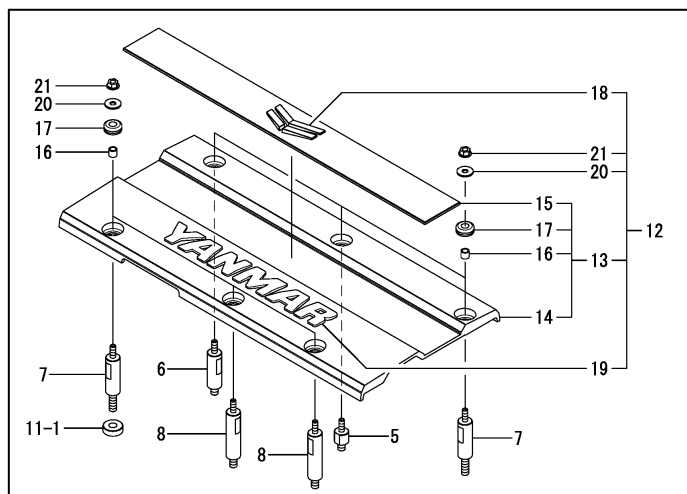
Fig.8. COVER(BELT)

(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	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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						

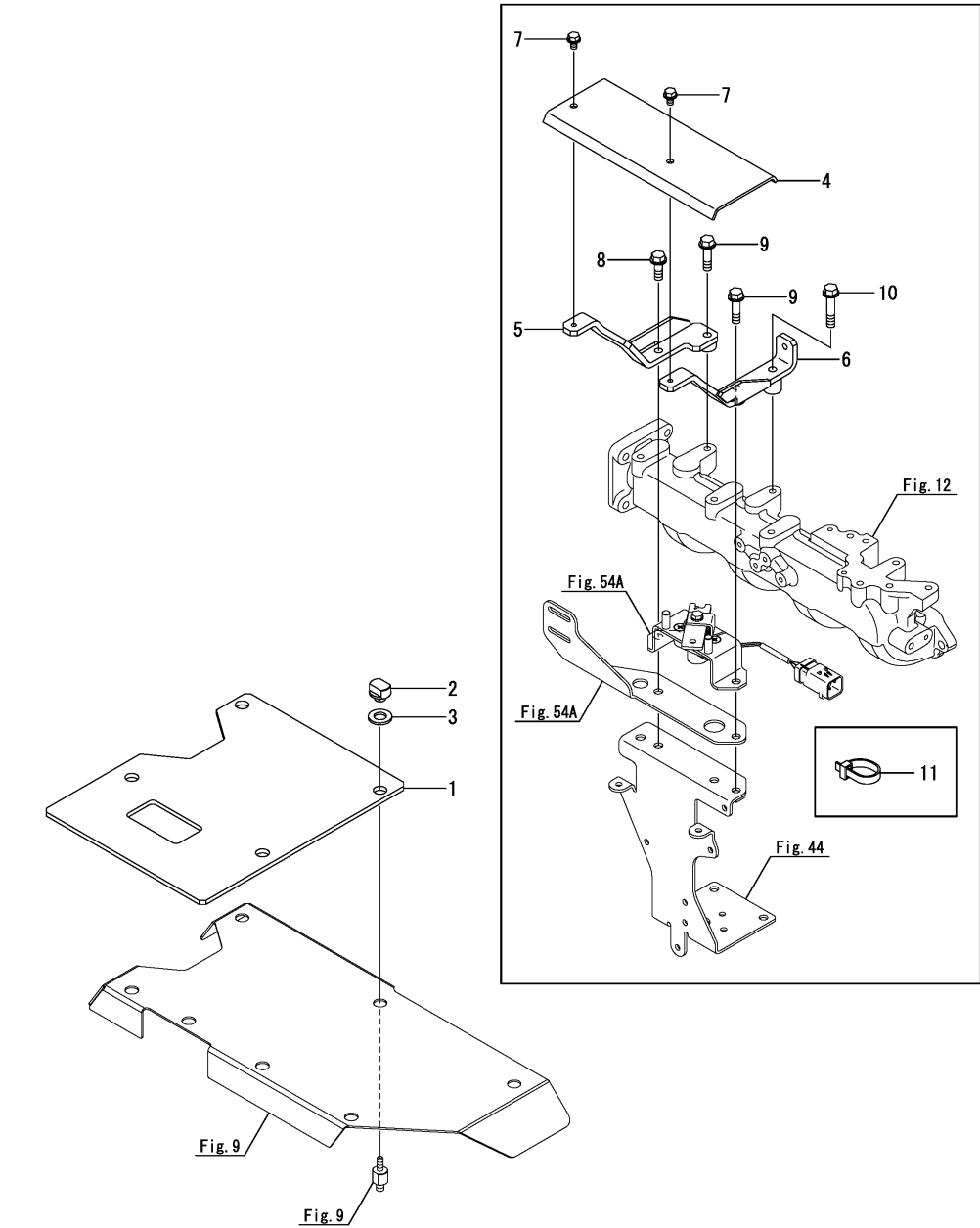
(1)Fig.57(54A) No.6-1 interchangeable by set.
(2)Interchangeability of No.1 & No.13 applies to 'N'.

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.65. (9A)COVER(SERVICE)(OPTIONAL)

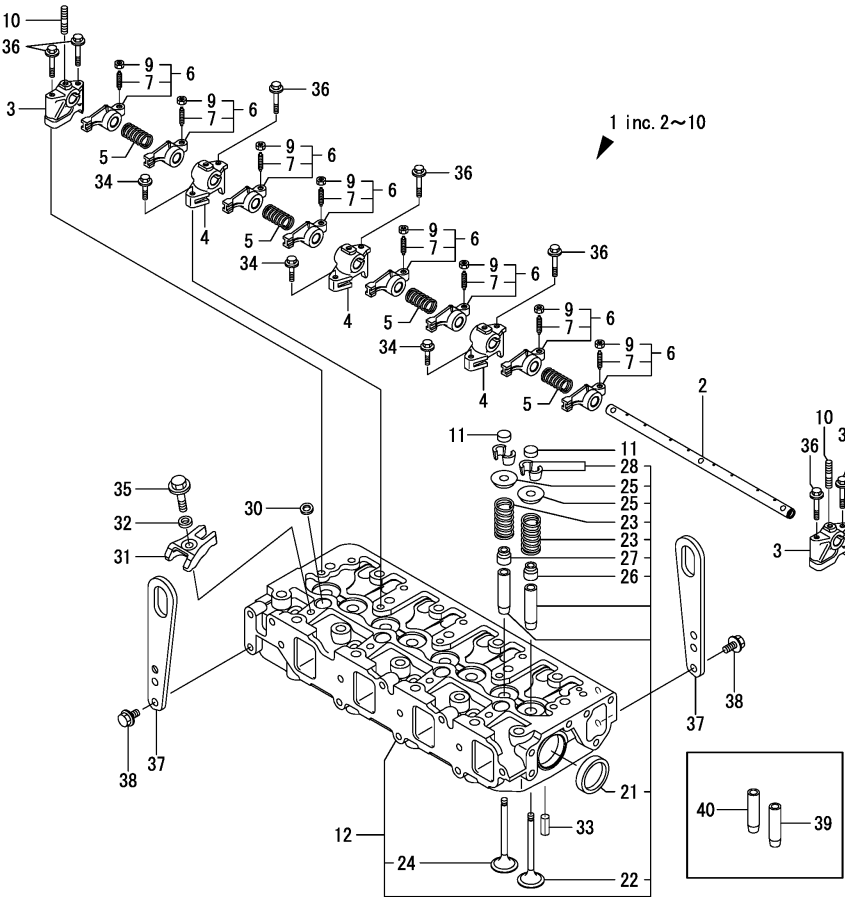
(A)=4JH80
(B)=4JH110
(C)=

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



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

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

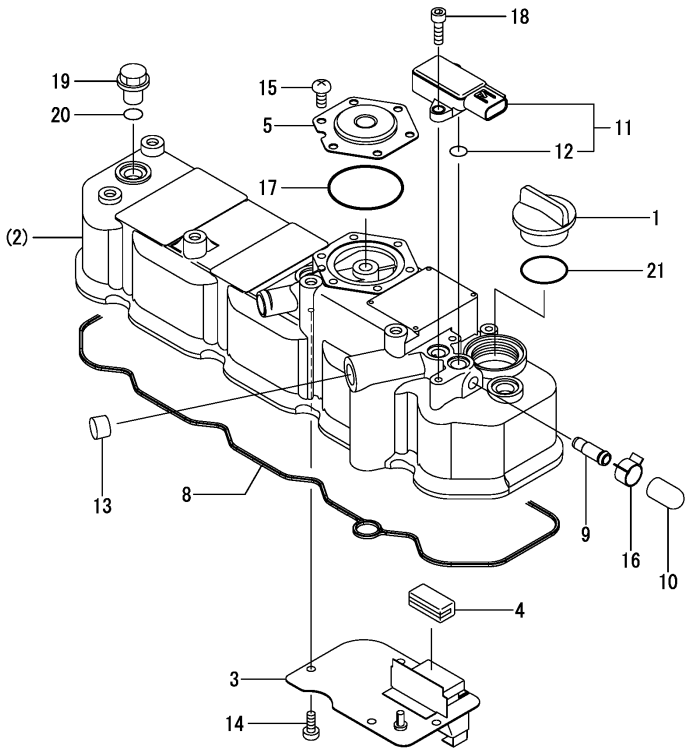
Remarks
(1)Spare parts.

Fig.11. BONNET

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

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

2 inc. (2)~18



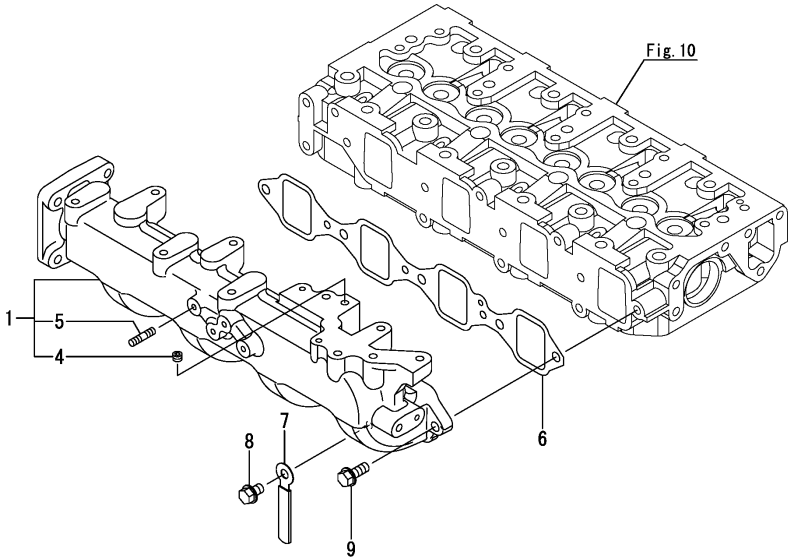
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-01751	CAP, FILLER	1	1						
2	1	129677-11350	BONNET ASSY, HEAD	1	1						
2-1	1	129677-11351	BONNET ASSY	1	1						N
(A=E50217) (B=E50217)											
3	2	129685-03010	PLATE, BAFFLE	1	1						
4	2	129150-03070	BAFFLE, BREATHER	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

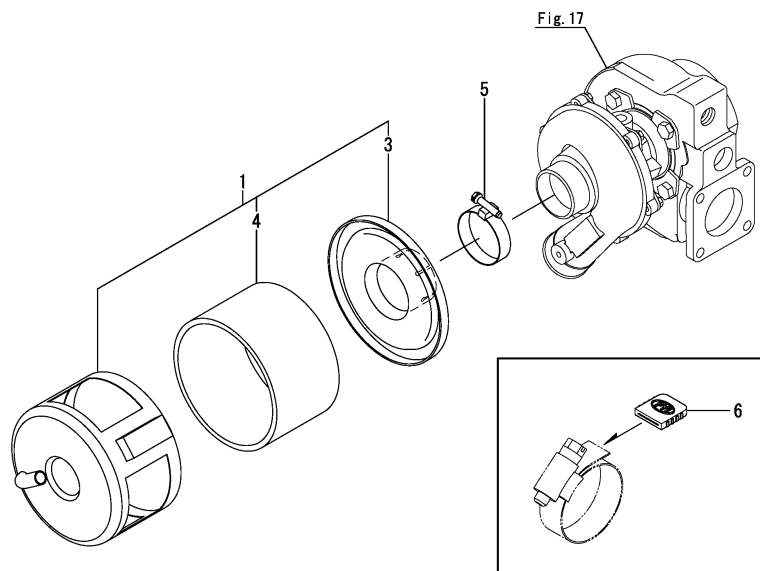
(A)=4JH80
(B)=4JH110
(C)=

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

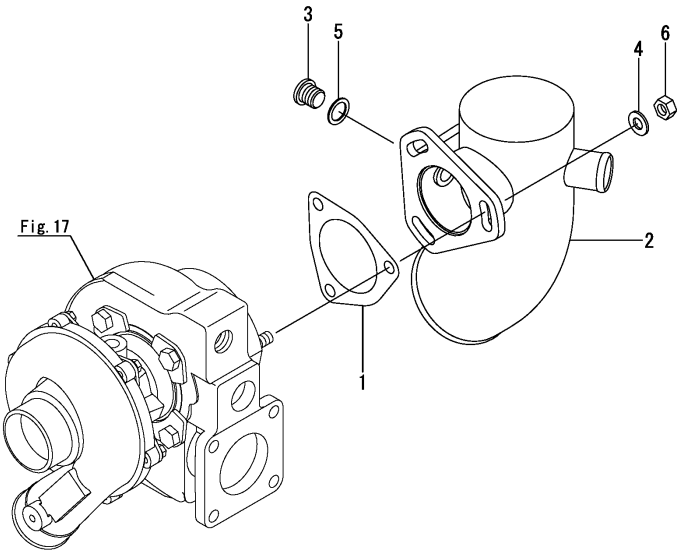
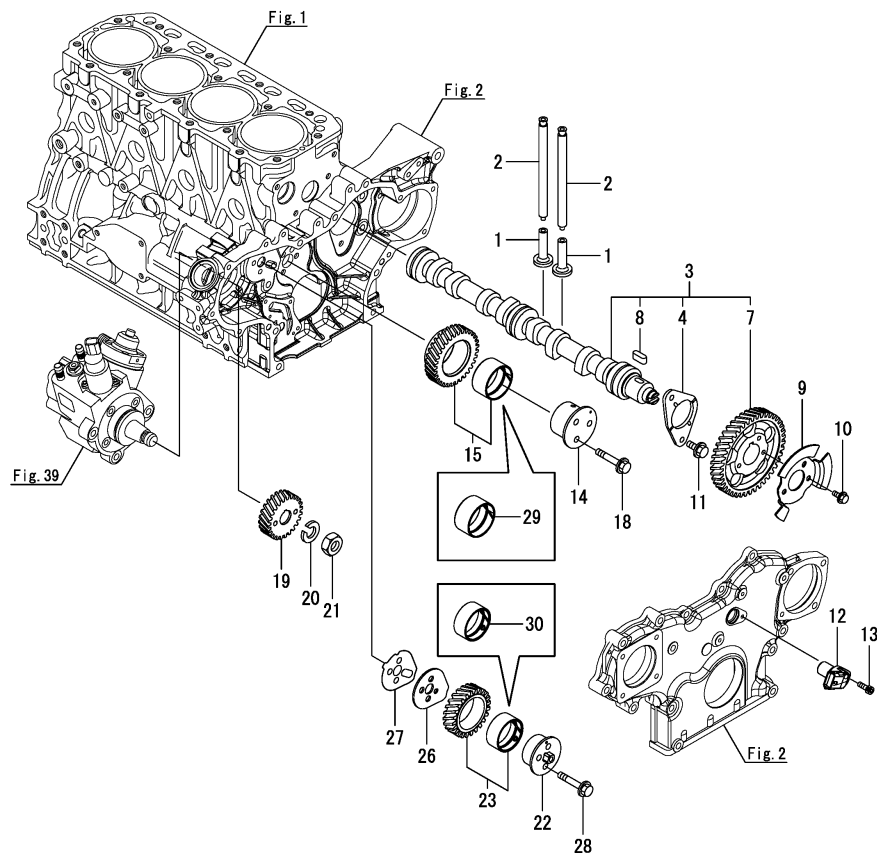




Fig. 30

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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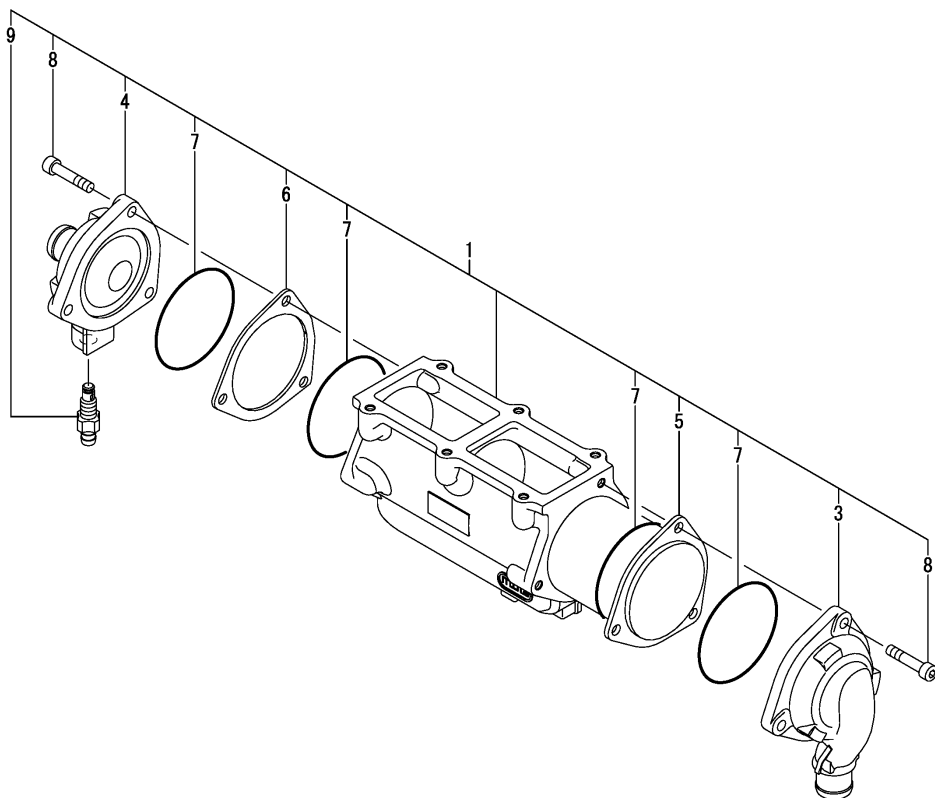


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8	8						
2	1	129150-14400	ROD, PUSH L=178	8	8						
3	1	129C28-14580	CAMSHAFT ASSY	1	1						
4	2	129150-02450	METAL, THRUST	1	1						
7	2	129A00-14100	GEAR, CAMSHAFT	1	1						
8	2	22512-070140	KEY, 7X 14	1	1						
9	1	129A00-14700	PULSER, CAMSHAFT	1	1						
9-1	1	129A00-14701	PULSER, CAMSHAFT	1	1						N
		(A=E55323)	(B=E55323)								
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

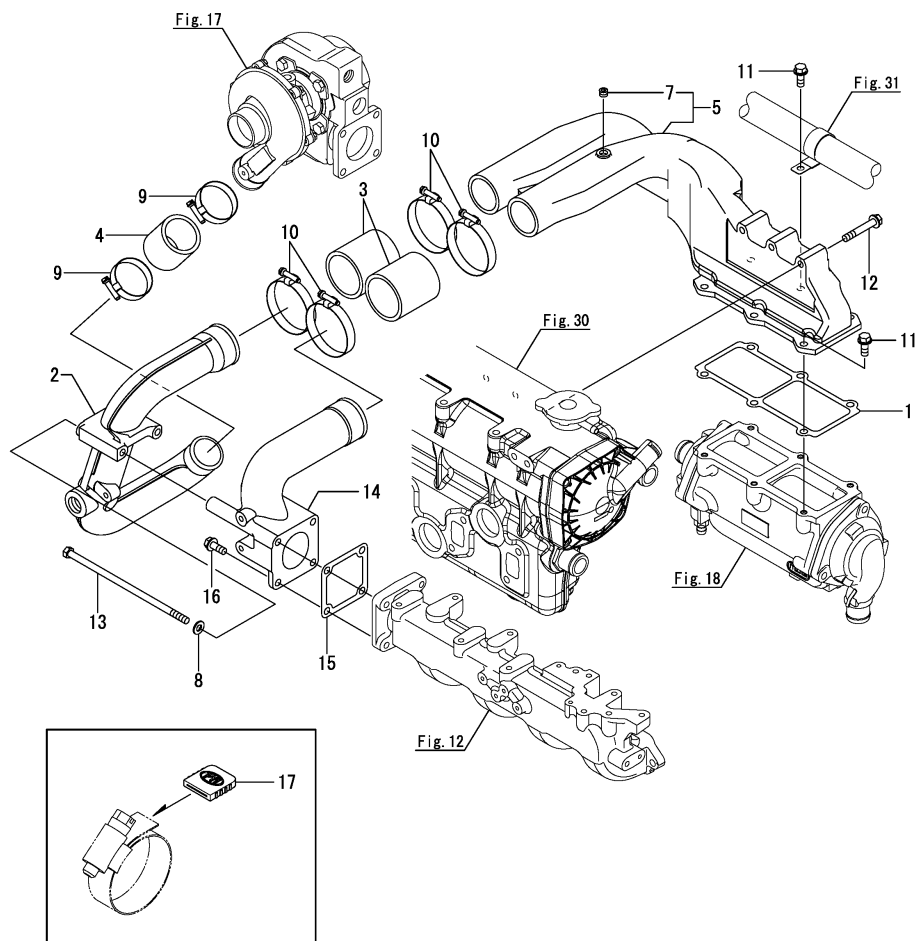
Remarks
(1) Spare parts.

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ 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	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						



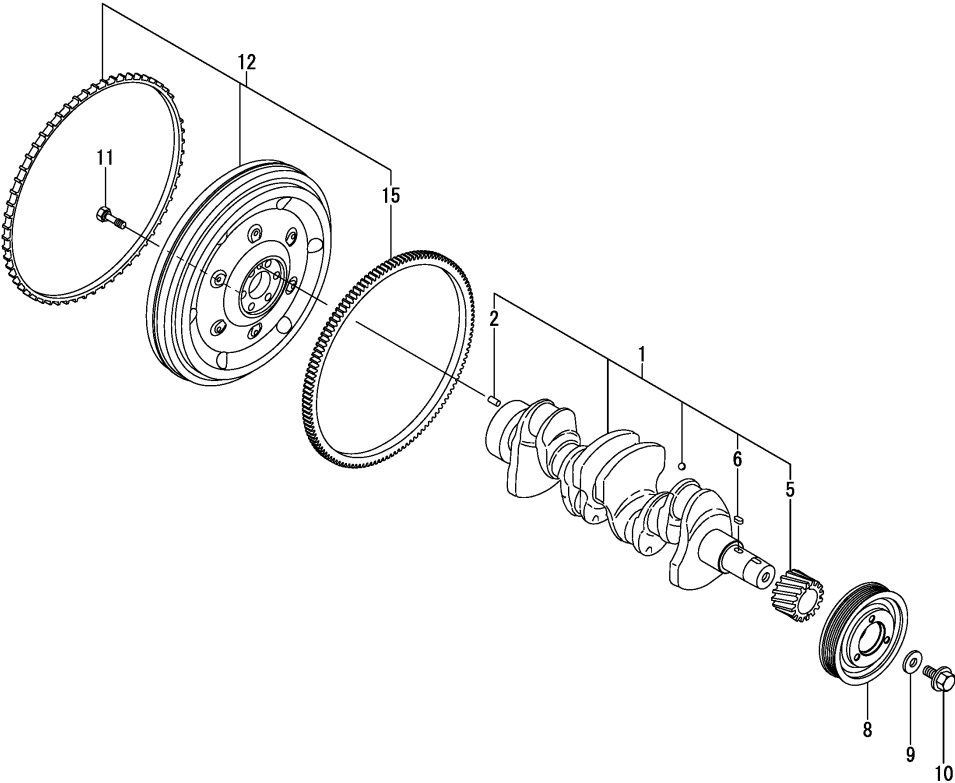
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129573-18120	GASKET, AIR DUCT	1	1						
2	1	129595-18132	DUCT, TURBINE OUTLET	1	1						
3	1	129673-18140	JOINT, RUBBER	2	2						
4	1	129671-18150	JOINT, RUBBER A	1	1						
5	1	129474-18181	DUCT ASSY, AIR	1	1						
7	2	23876-010000	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, AIR HEATER	1	1						
16	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
17	1	129677-49950	PROTECTOR,HOSE CLAMP	6	6						W 1

(A=E51201) (B=E51210)

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

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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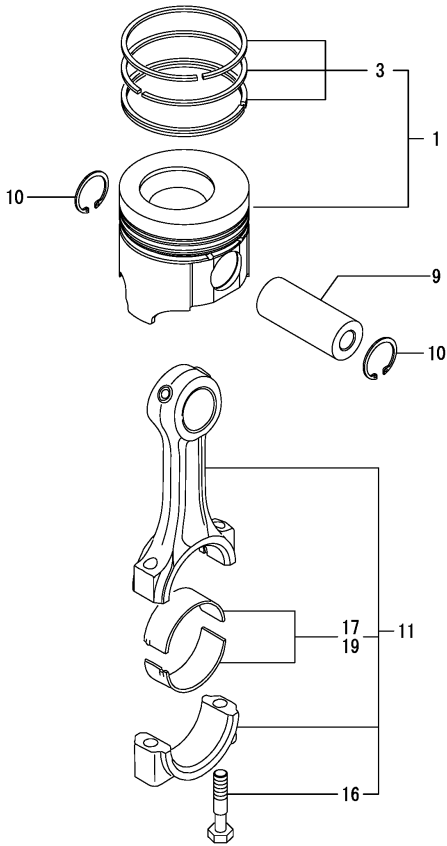
Fig.20. CRANKSHAFT & FLYWHEEL



(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, 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

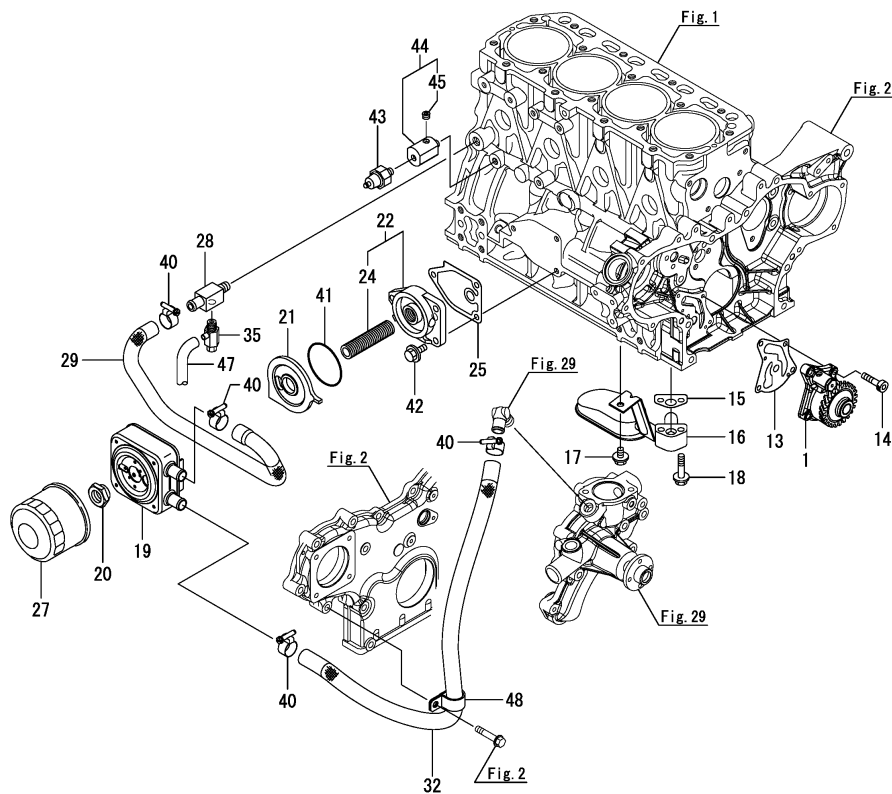


(A)=4JH80
(B)=4JH110
(C)=
(D)=
(E)=
(F)=

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

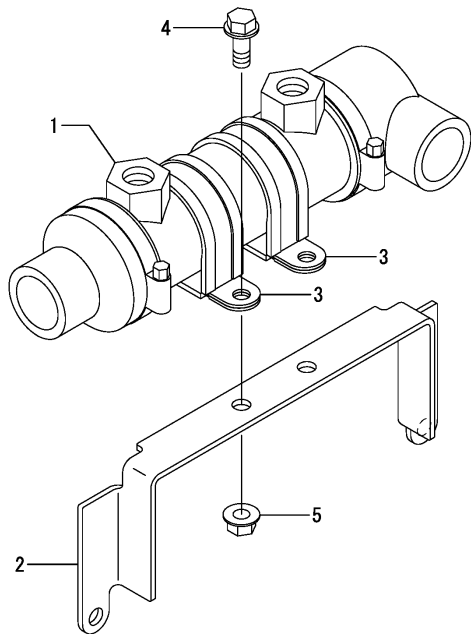


No.	Lev.	Parts No.	Description	(A)=4JH80 (B)=4JH110 (C)=		(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	129677-32000	PUMP ASSY,LUB.OIL	1	1					
13	1	129486-32020	GASKET, PUMP	1	1					
14	1	26450-060252	BOLT, M6X 25	4	4					
15	1	129150-35042	GASKET, INLET PIPE	1	1					
16	1	129473-35091	PIPE ASSY, 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					

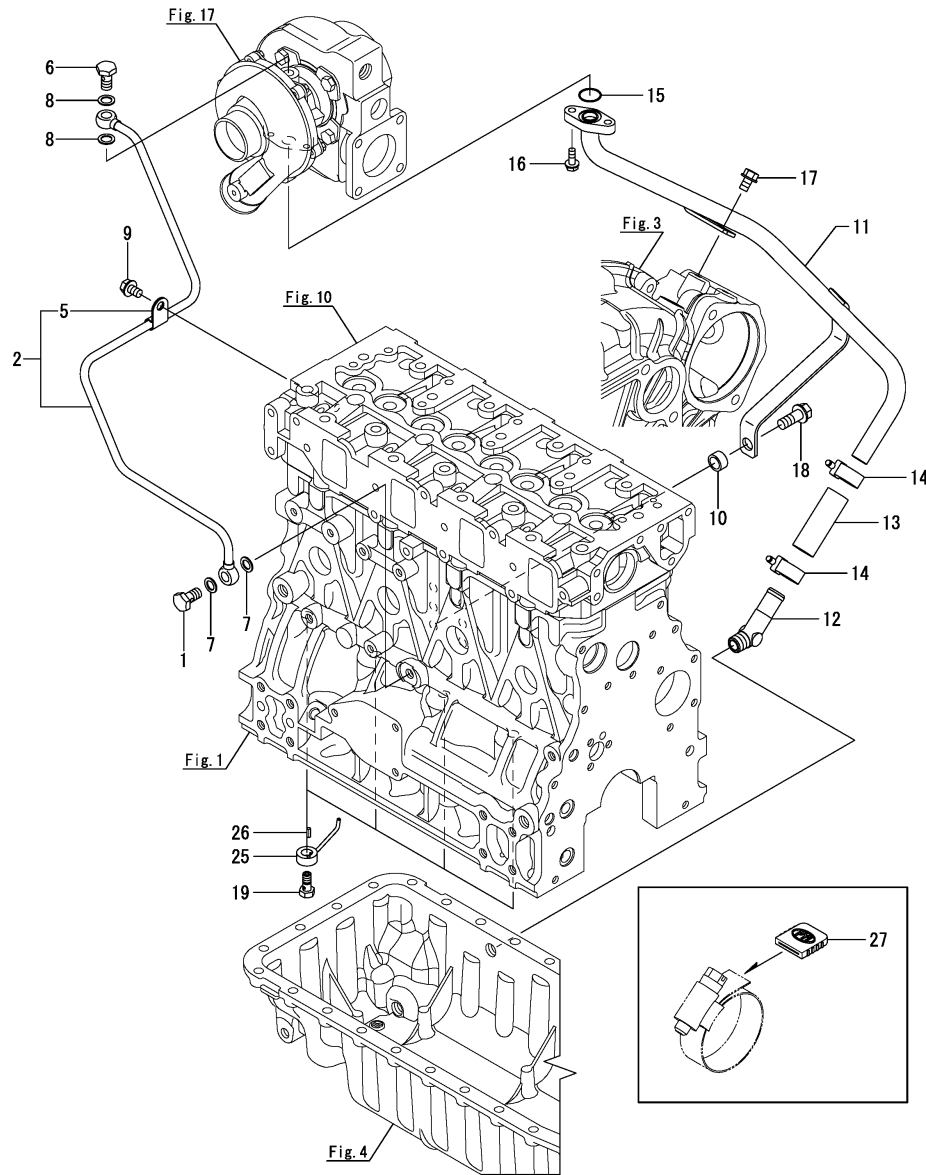
(1)Non-branded filter(without Yanmar logo).
(2)Branded filter(with Yanmar logo).

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(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						

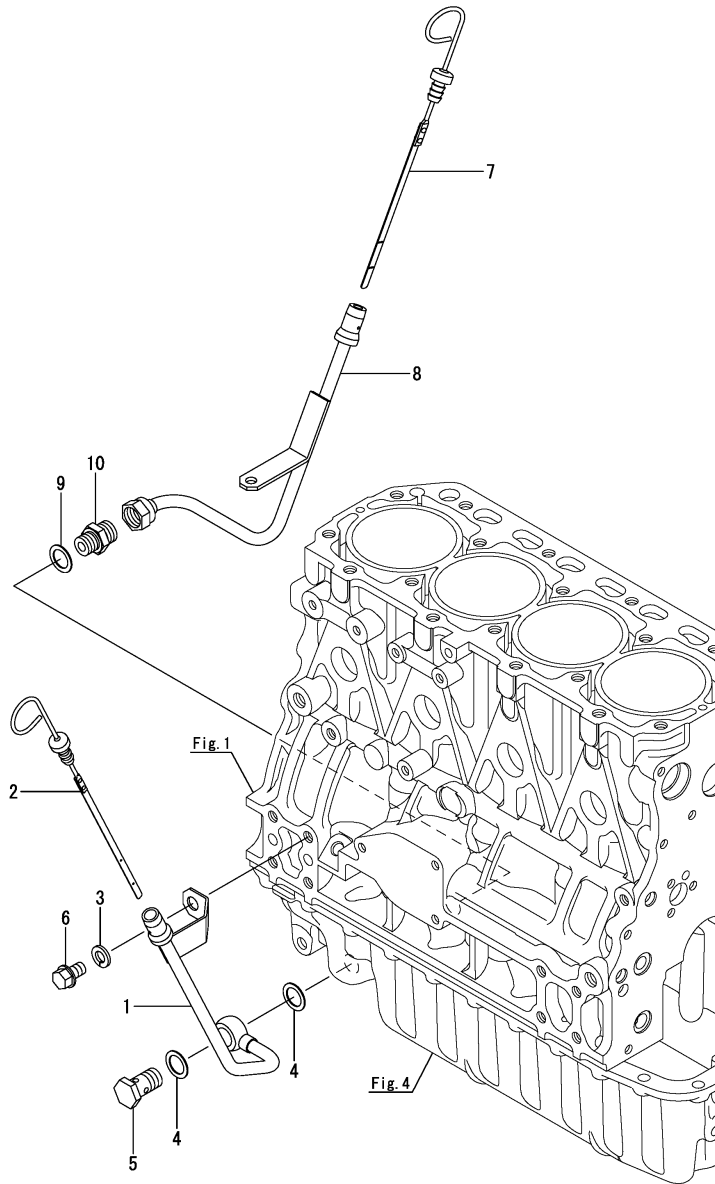


No.	Lev.	Parts No.	Description	Q'ty					I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	124160-39140	BOLT, PIPE JOINT M10	1	1					
2	1	129677-39400	PIPE ASSY, OIL INLET	1	1					
5	2	124223-39900	RETAINER	1	1					
6	1	124413-39710	BOLT, PIPE JOINT M10	1	1					
7	1	22190-100002	WASHER, SEAL 10	2	2					
8	1	23414-100000	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					W 1
(A=E51201)		(B=E51210)								

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

N:Old $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \text{Yes} \\ \text{Yes} \end{matrix}$ New, S:Old $\begin{matrix} \text{No} \\ \text{No} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.24. DIPSTICK



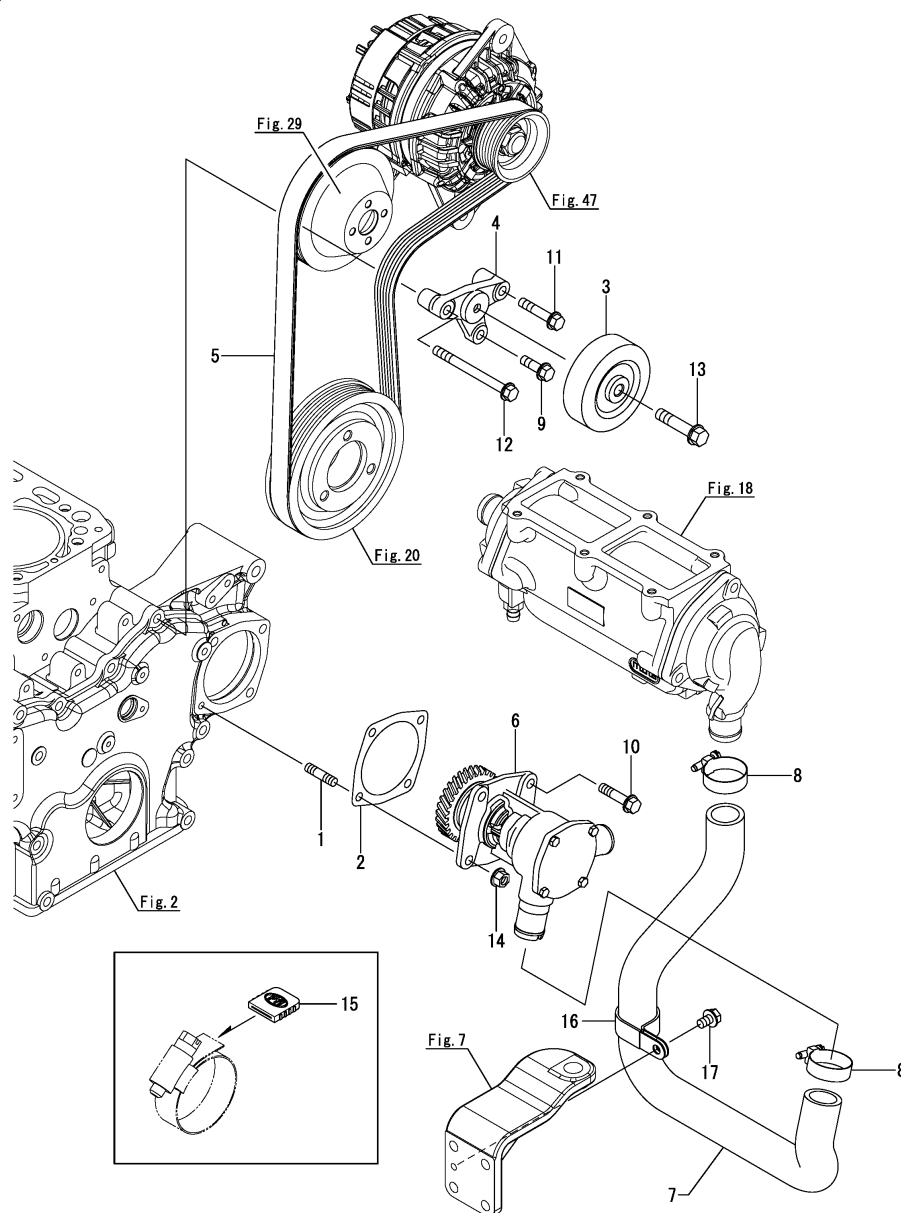
Remarks

(1)Optional parts.

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

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

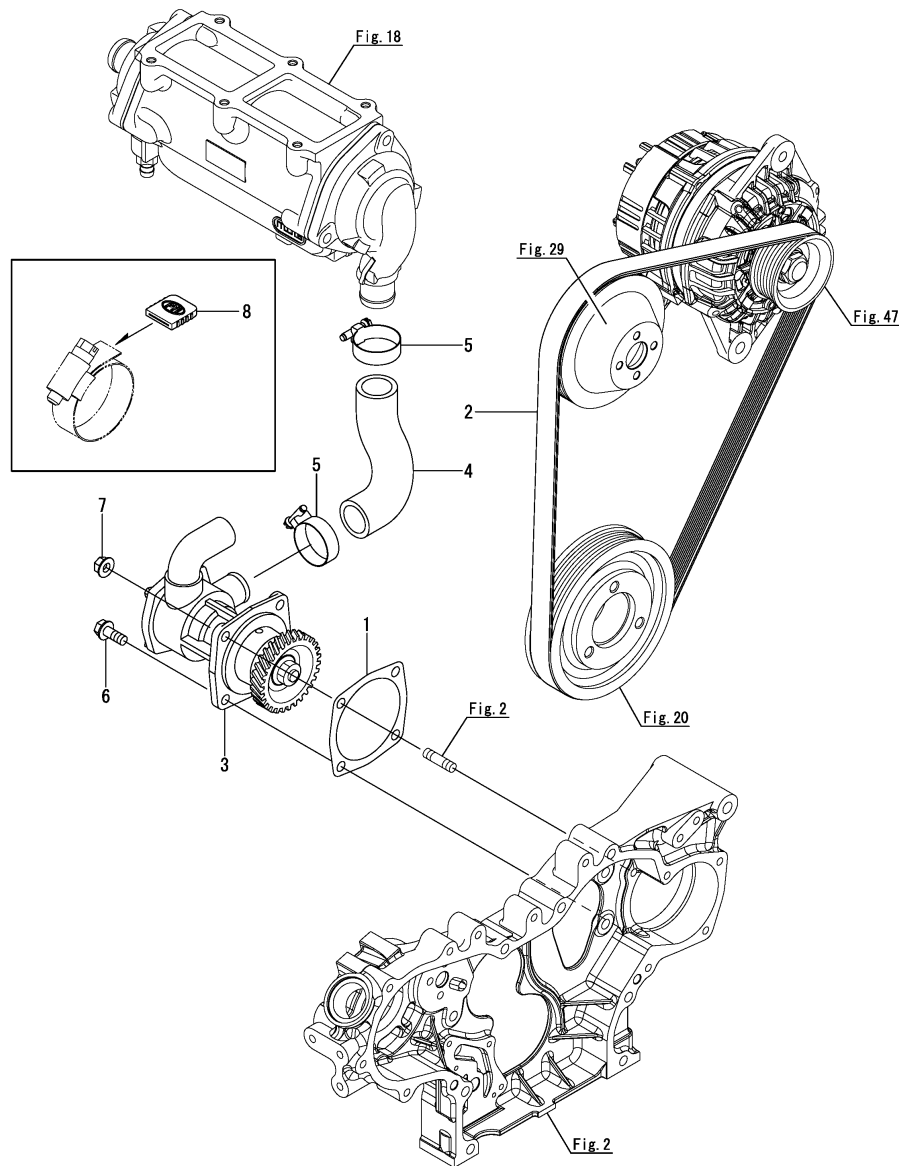
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-34800	GUIDE, DIPSTICK	1	1						
2	1	129677-34850	DIPSTICK ASSY, OIL	1	1						
3	1	22217-100000	WASHER, SPRING 10	1	1						
4	1	23414-160000	GASKET, 16X1.0	2	2						
5	1	23857-100000	BOLT, JOINT 10	1	1						
6	1	26106-100162	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



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) (A=*2017.11.)	(B=E51210) 129675-49120 (B=*2017.11.)	RETAINER, HOSE	1	1						W
17	1 (A=*2017.11.)	26106-080122 (B=*2017.11.)	BOLT, M8X 12 PLATED	1	1						W

(2) Attached to the ends of No.8 hose clamps.

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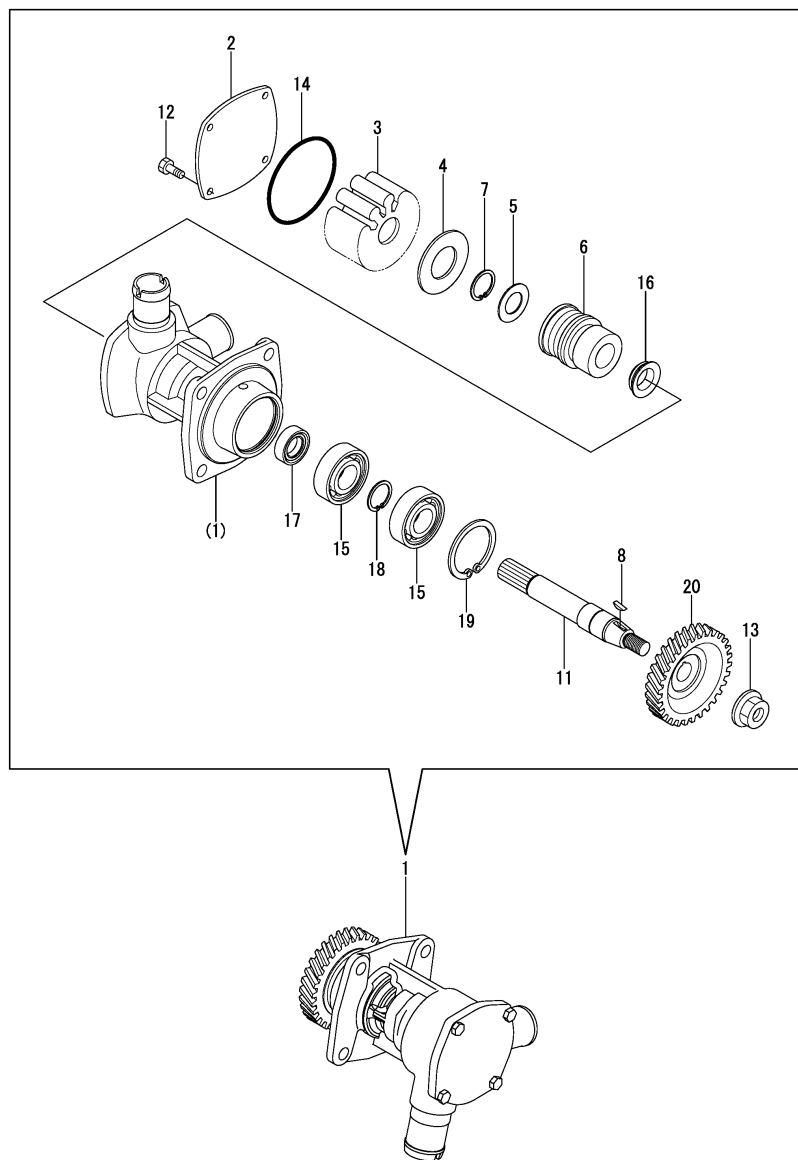


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-01881	GASKET, PUMP COVER	1	1						
2	1	129677-42280	BELT, V-RIBBED	1	1						
3	1	129670-42513	PUMP ASSY, WATER	1	1						1
4	1	129672-49060	PIPE, COOLER INLET	1	1						
5	1	129670-49500	CLIP, HOSE 38	2	2						
6	1	26106-080202	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)								

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

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



EC.)				(A)=4JH80 (B)=4JH110 (C)=	(D)= (E)= (F)=	Q'ty				I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129271-42502	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						
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	129271-42700	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).

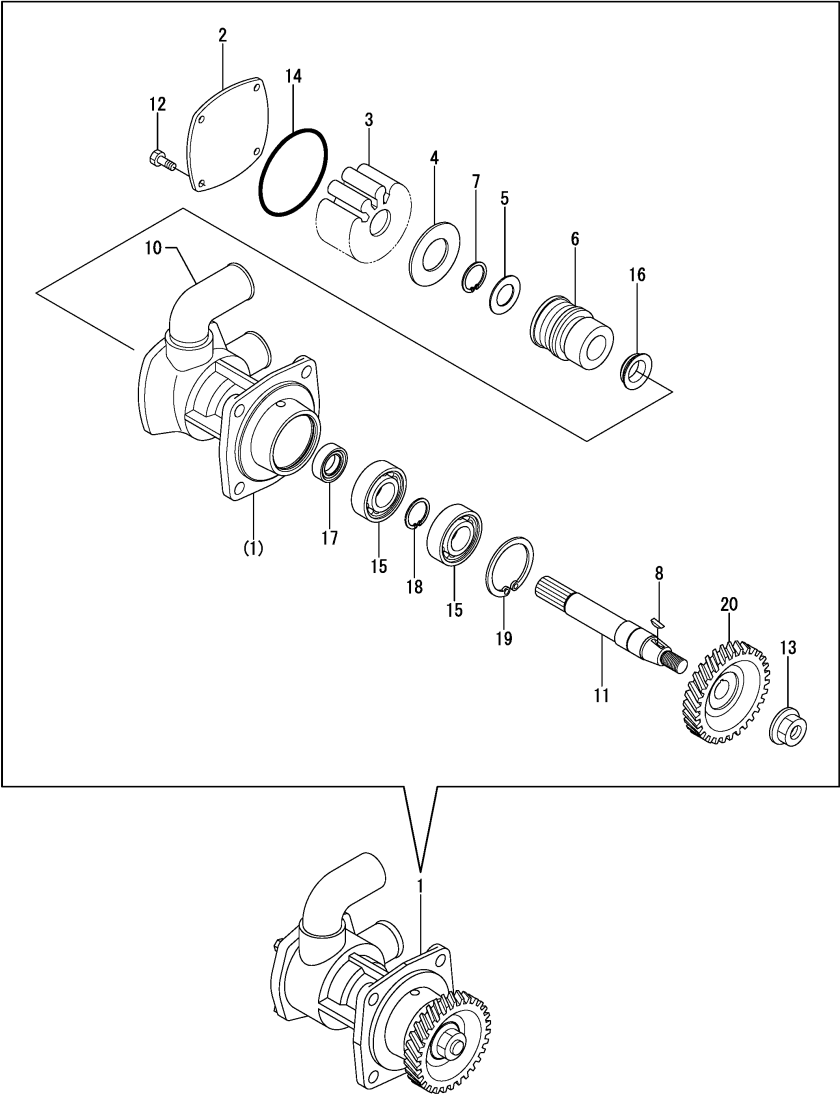
N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.28. 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).

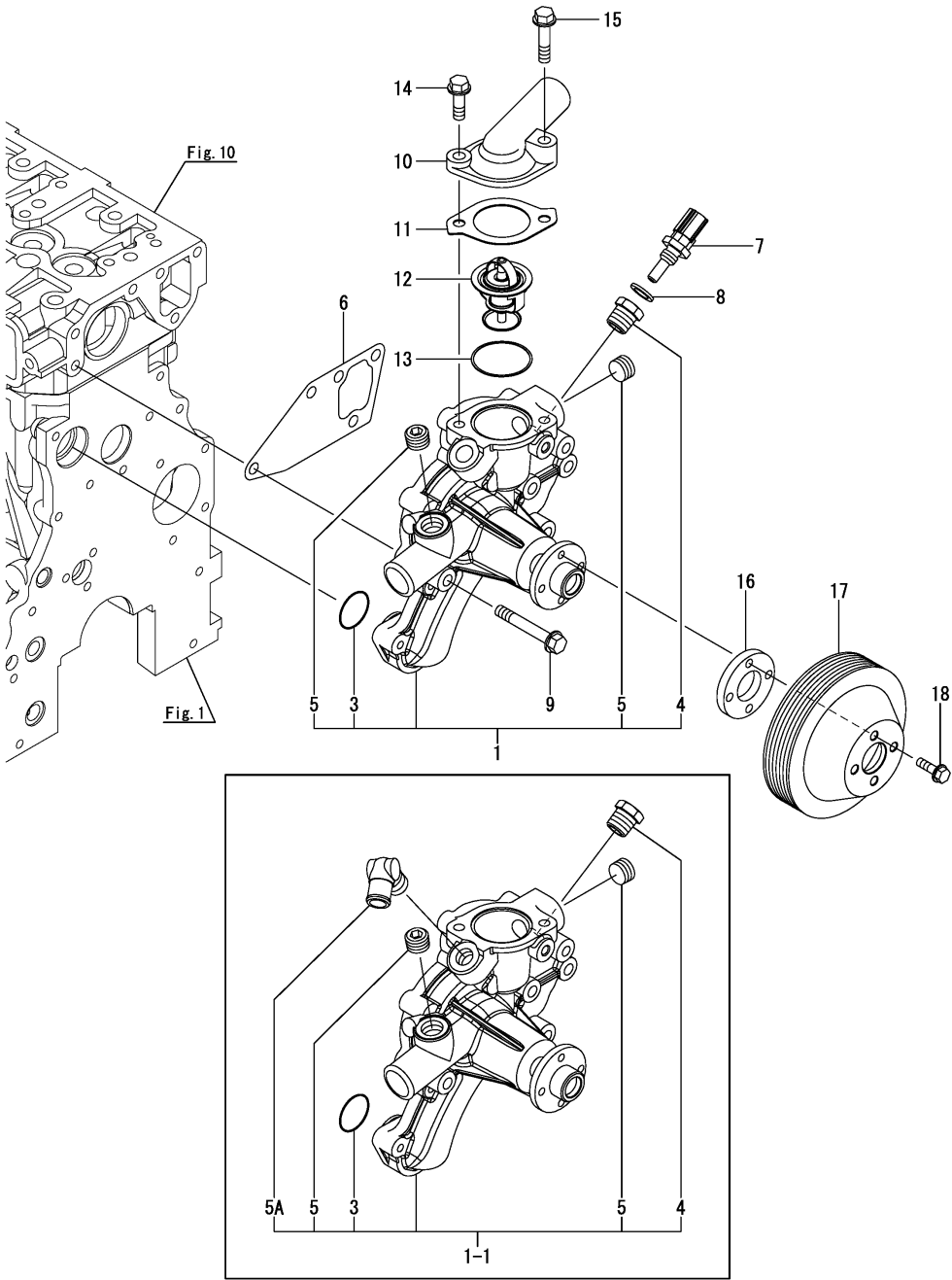
(2)Not illustrated(Include No.8, 11, 13, 15, 16, 17, 18 & 19).

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

Fig.29. COOLING PUMP(FRESH WATER)

(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	129677-42000	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)

(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	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						
6A	2	129673-44110	NECK, FILLER	1	1						
6B	2	129673-44150	TUBE, D28.5X1.5 LG6	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						

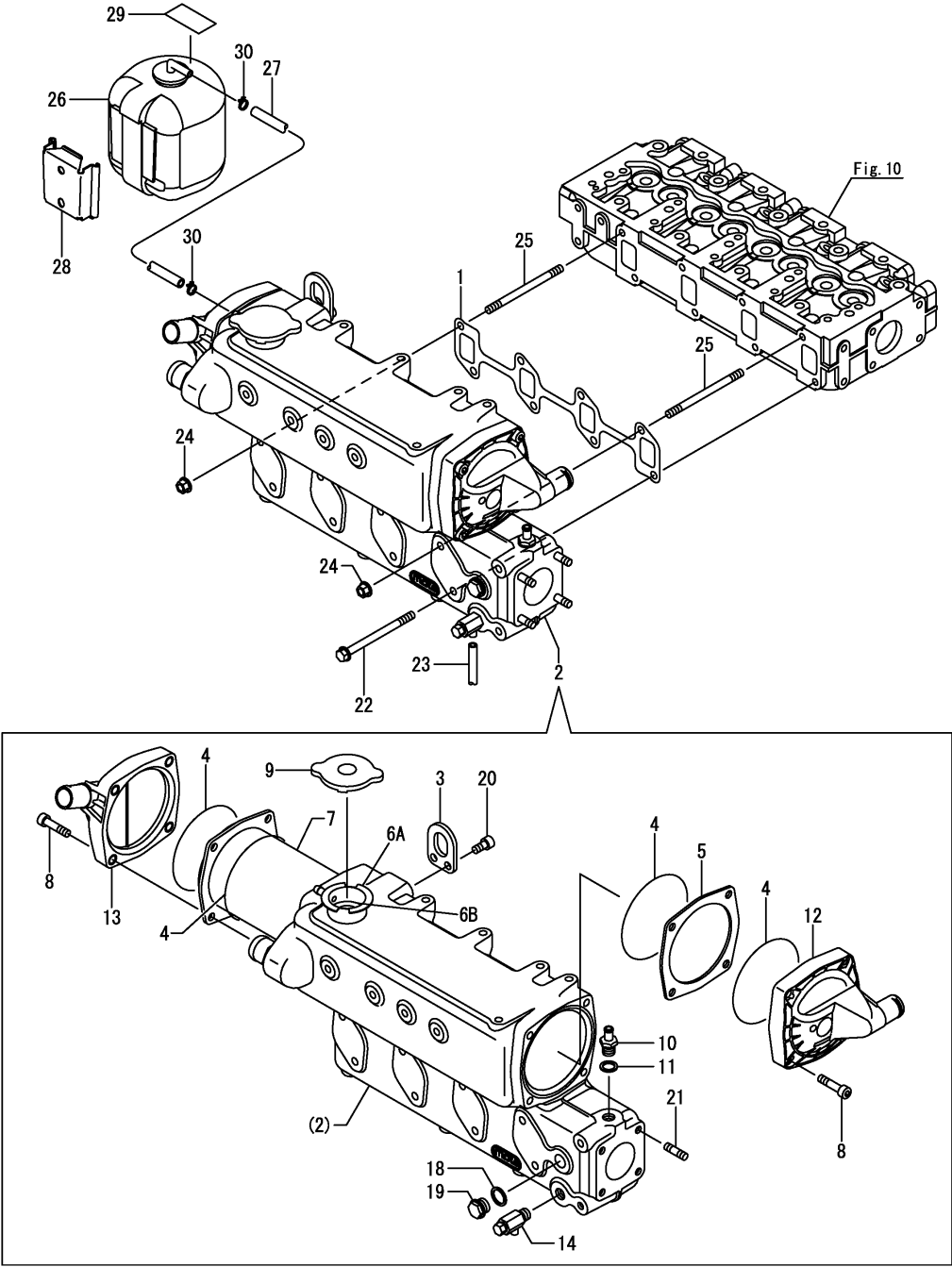
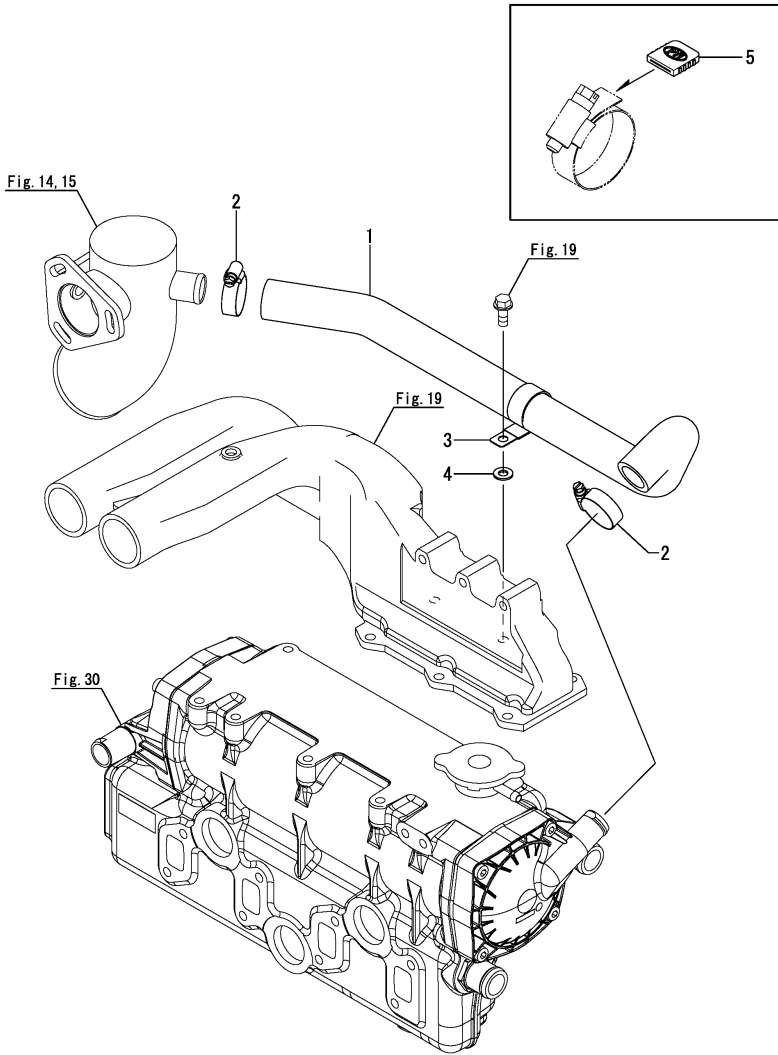


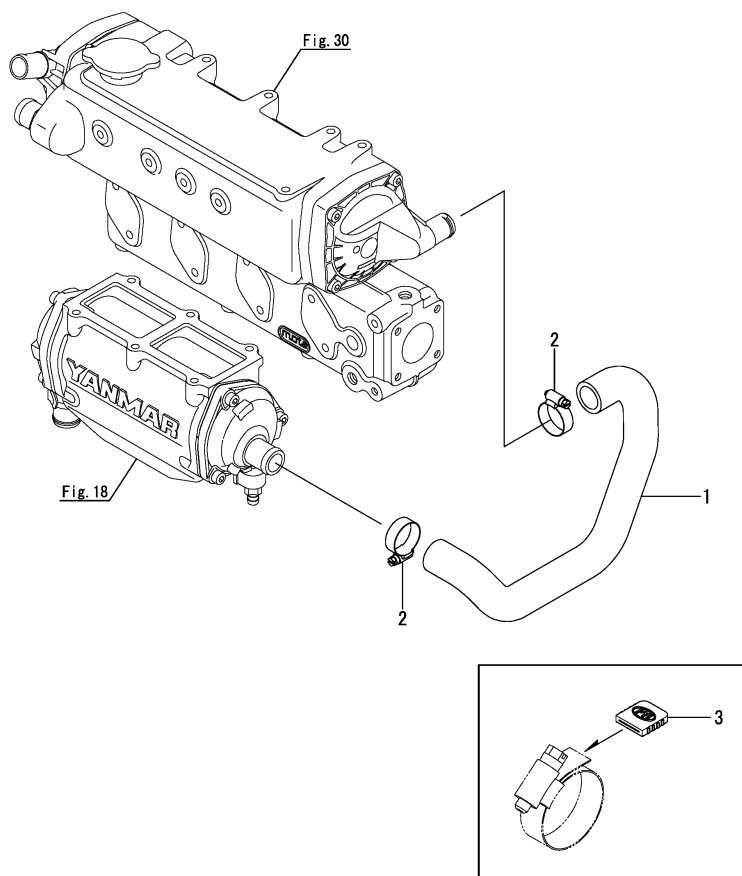
Fig.31. COOLING PIPE(SEA WATER)(MIXING ELBOW)



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

OCF50-M00091 Fig.31
(D)=
(E)=
(F)=

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)								

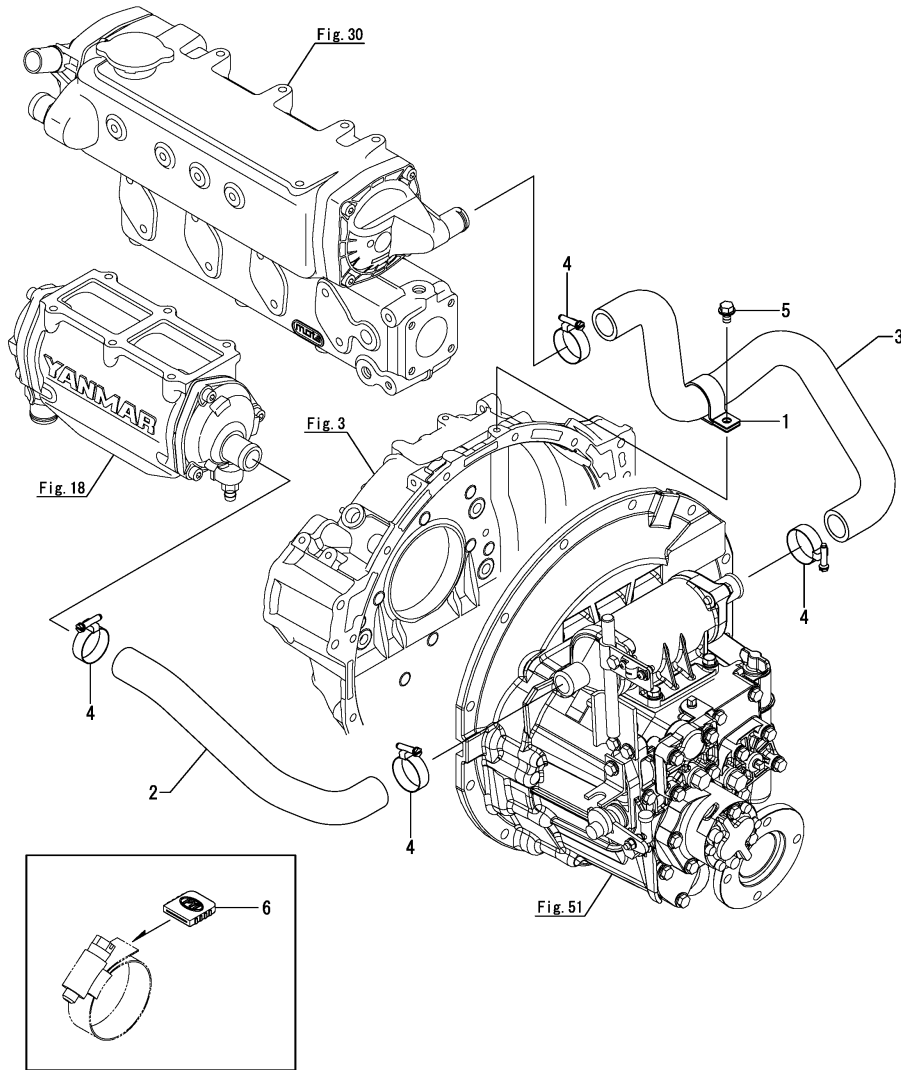


				(A)=4JH80 (B)=4JH110 (C)=					(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description		Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	129677-49010	HOSE, COOLER INLET	1	1								
2	1	129670-49500	CLIP, HOSE 38	2	2								
3	1	129677-49950	PROTECTOR,HOSE CLAMP	2	2					W	1		
(A=E51201)		(B=E51210)											

(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 $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.33. COOLING PIPE(SEA WATER)(FOR KMH4A)



Remarks

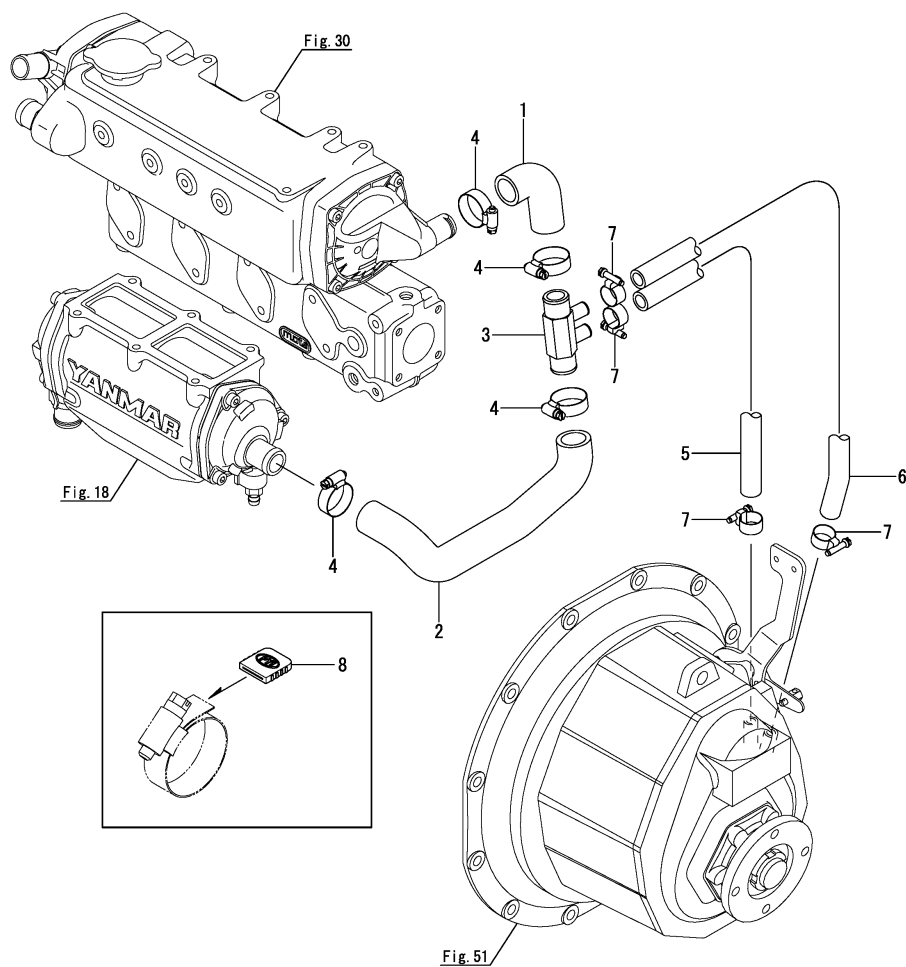
(1) Attached to the ends of No.4 hose clamps.

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

0CF50-M00091 Fig.33

(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, 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)								

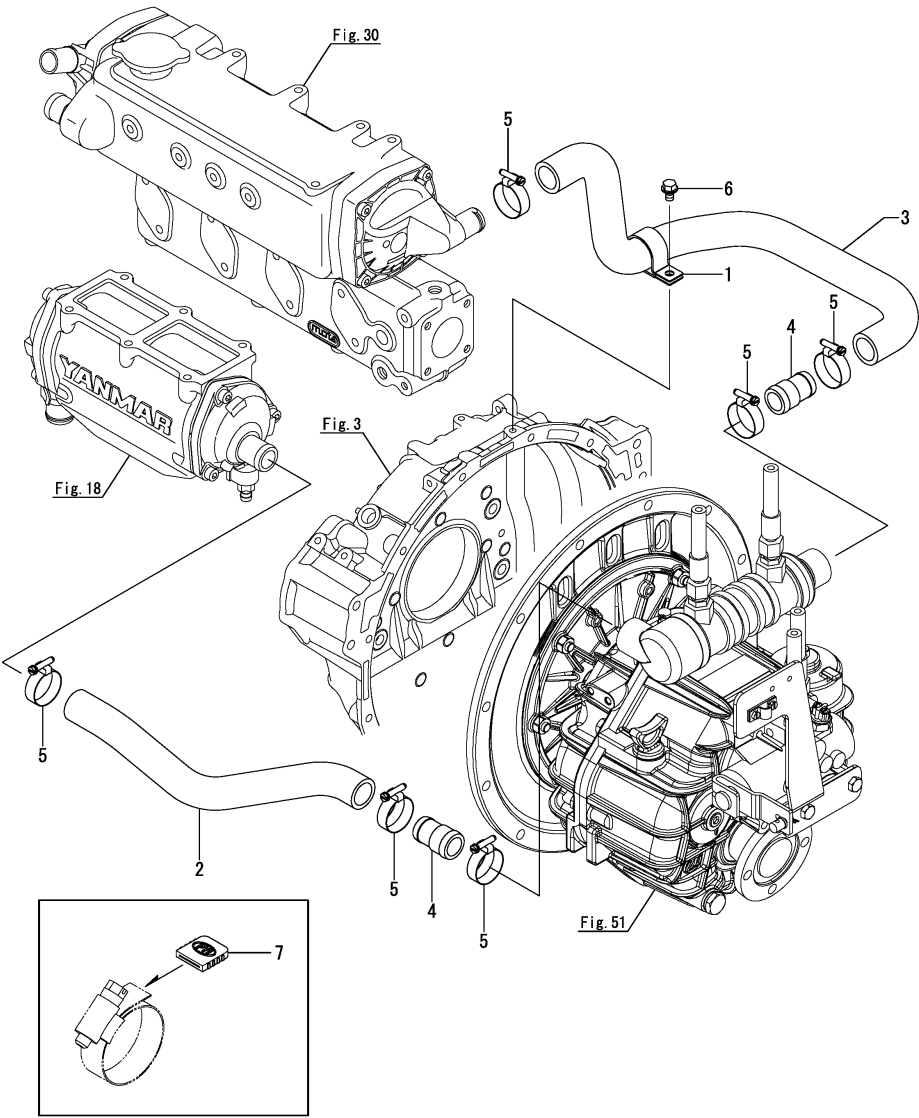


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129672-49070	PIPE, SEA WATER	1	1						
1-1	1	129672-49030	PIPE, SEA WATER C	1	1						N
		(A=E50722)	(B=E50735)								
2	1	129677-49110	HOSE, COOLER OUTLET	1	1						
3	1	129670-49410	JOINT, SEA WATER A	1	1						
4	1	129670-49500	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)								

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

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ 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)



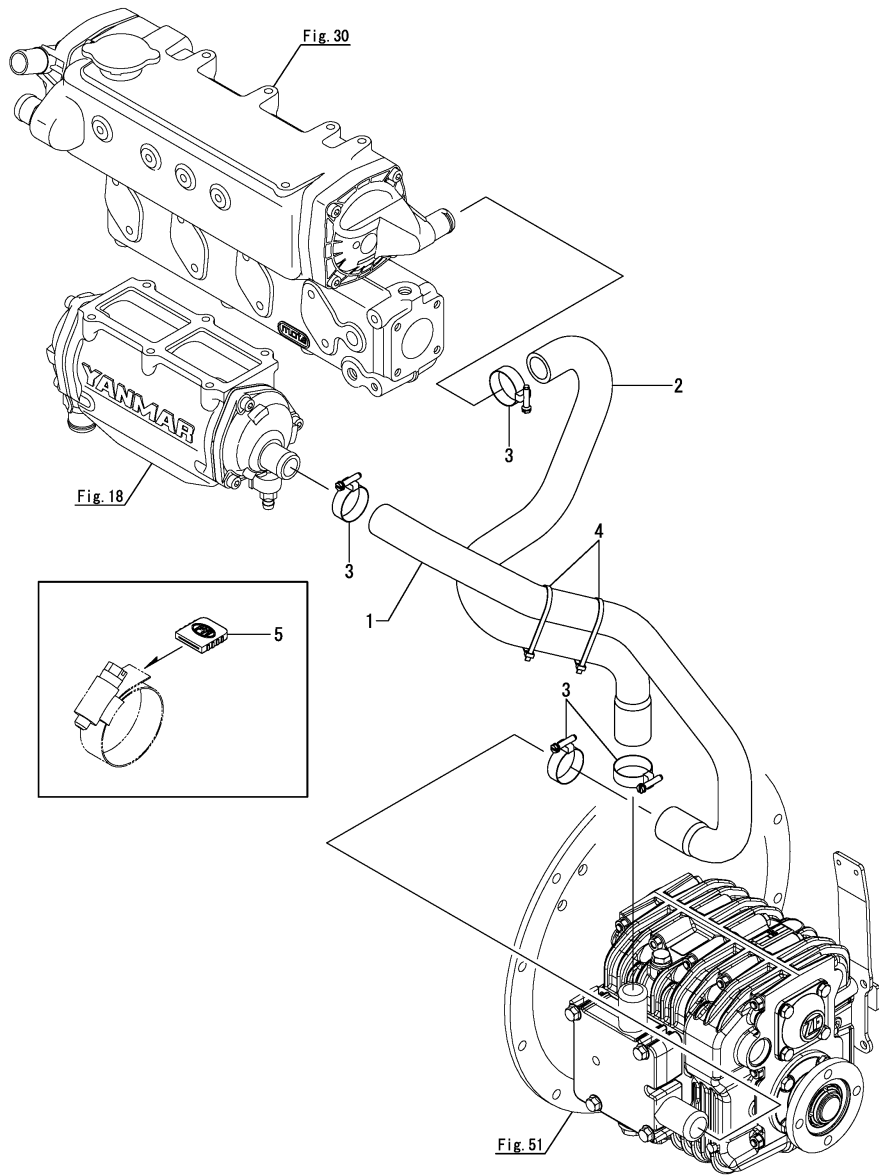
(A)=4JH80
(B)=4JH110
(C)=

(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)=

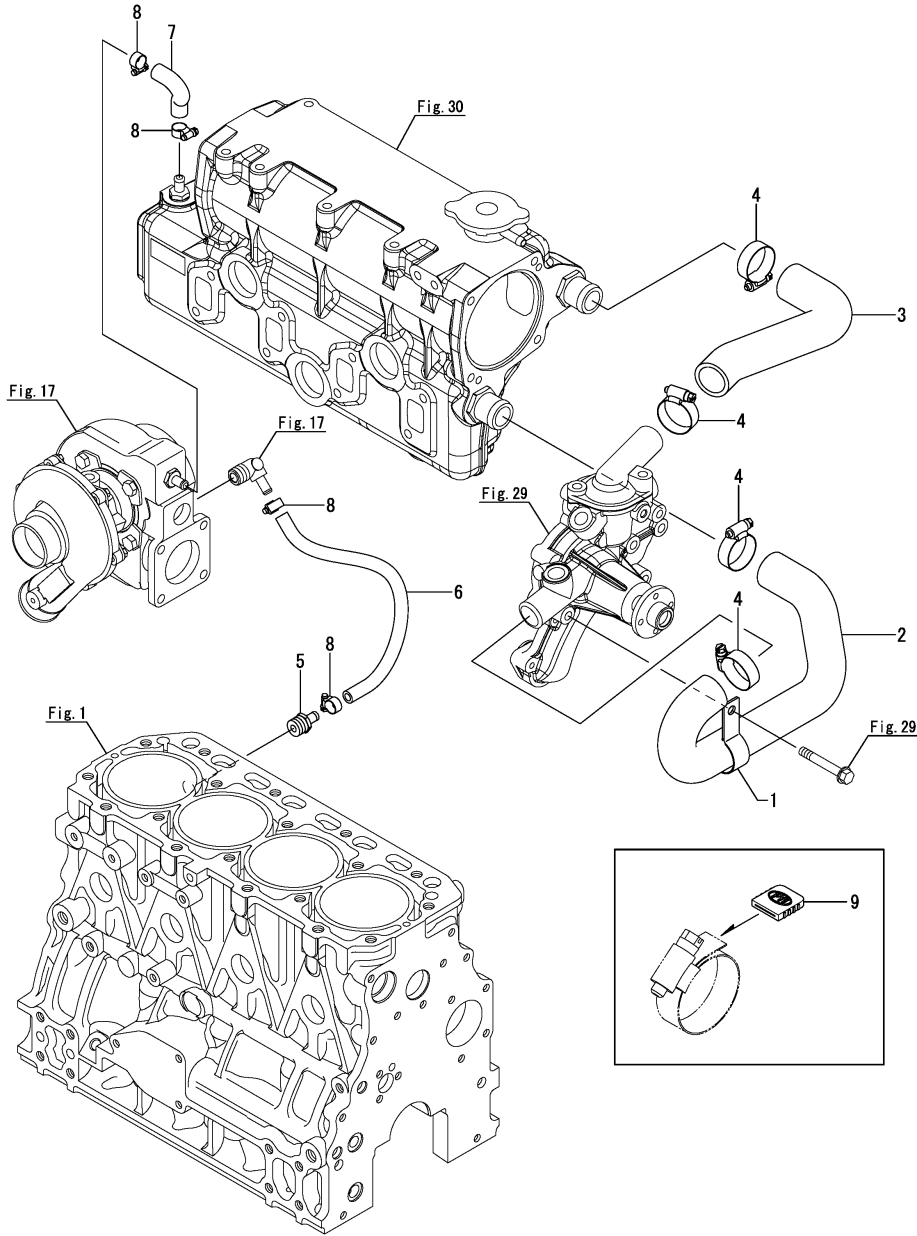
(D)=
(E)=
(F)=

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

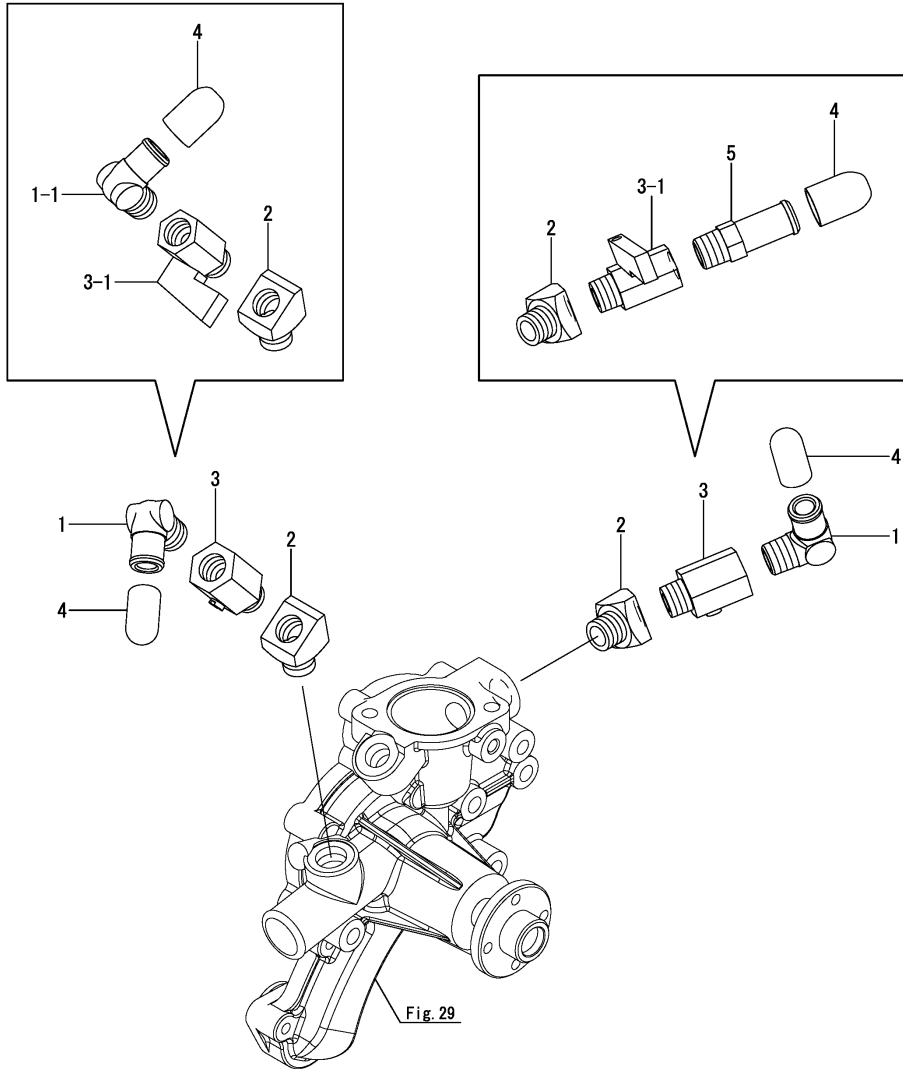
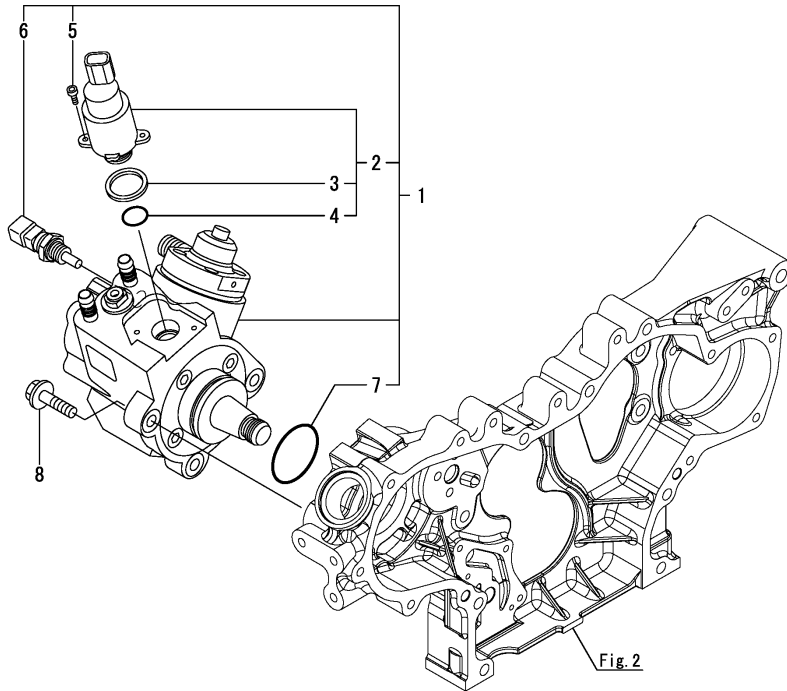


Fig. 29

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129051-49310	ELBOW, PT3/8	2	2						
1-1	1	129051-49310	ELBOW, PT3/8	1	1						K
		(A=E51735)	(B=E51748)								
2	1	129677-49320	ELBOW, 3/8-30	2	2						
3	1	129670-49390	COCK ASSY,R1/4XRP3/8	2	2						
3-1	1	129677-49390	COCK ASSY,R3/8XRP3/8	2	2						R
		(A=E51735)	(B=E51748)								
4	1	128990-49400	CAP, WATER	2	2						
5	1	128990-49320	JOINT, 3/8	1	1						W
		(A=E51735)	(B=E51748)								



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						

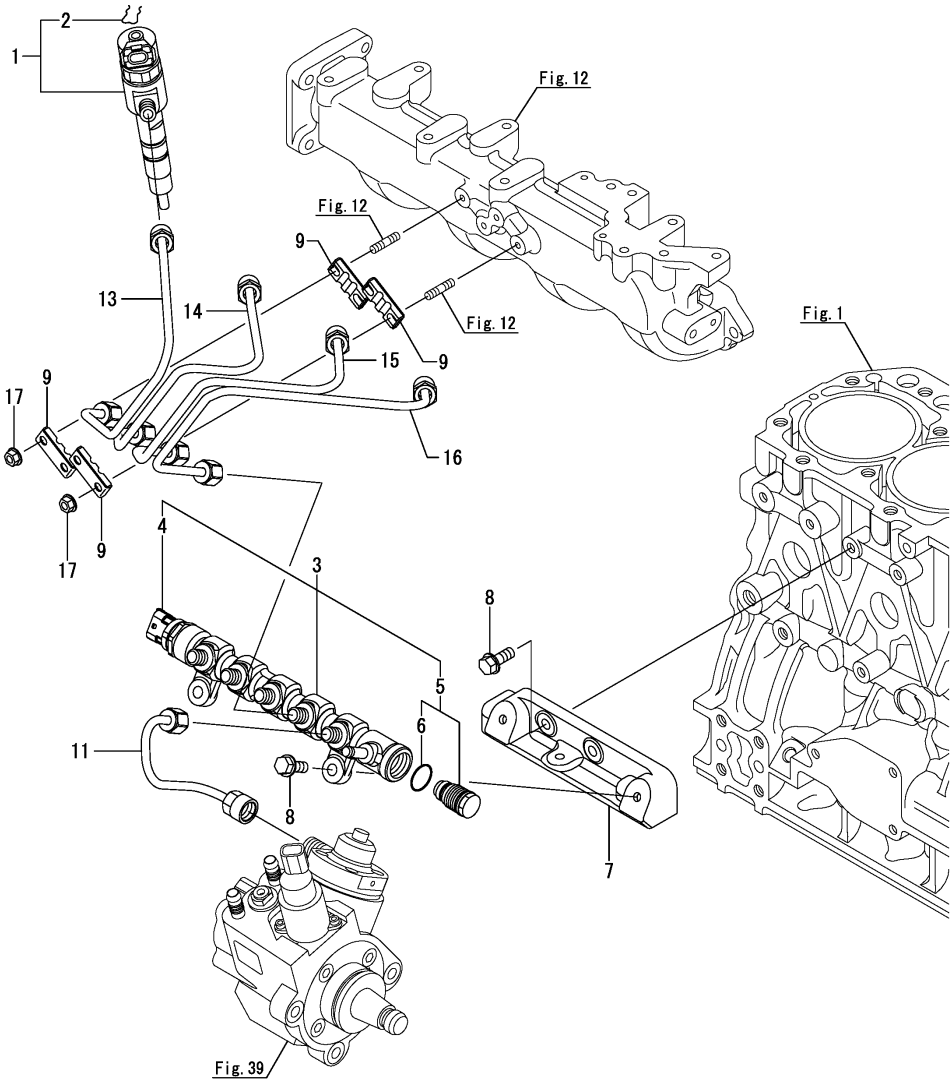
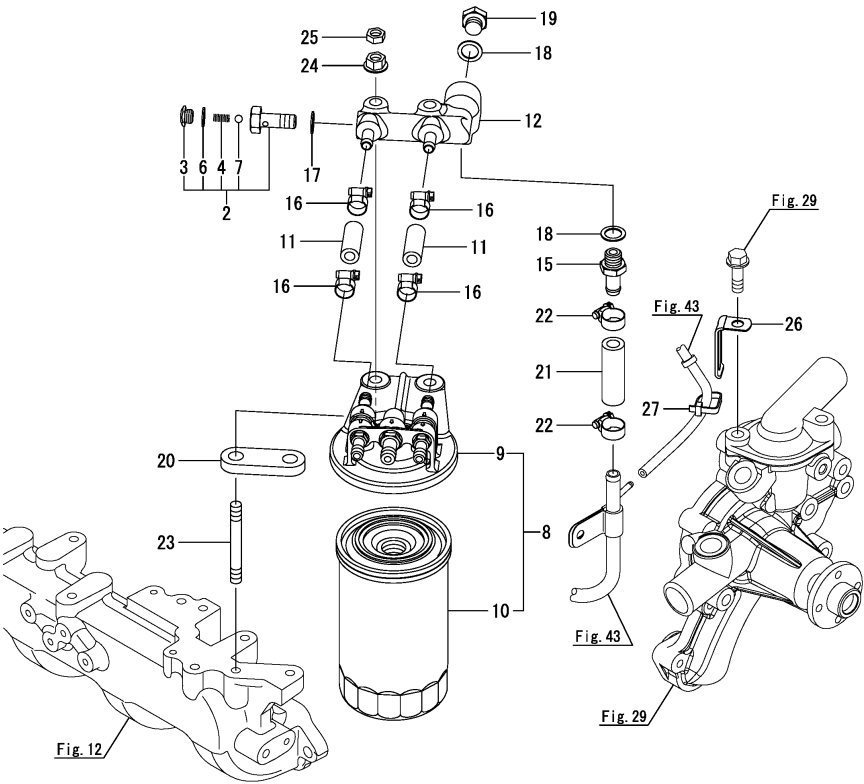


Fig.41. FUEL FILTER

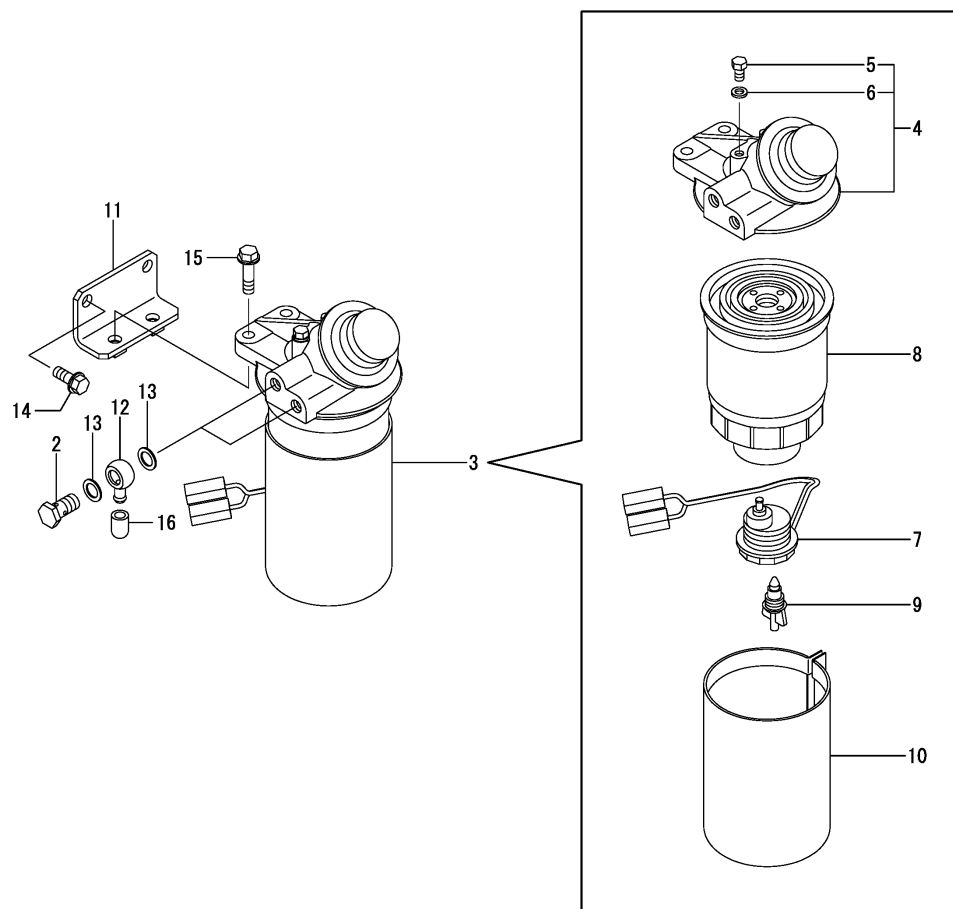
(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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						1
10-1	2	129A00-55810	FILTER,FO	1	1					R	2
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.)											

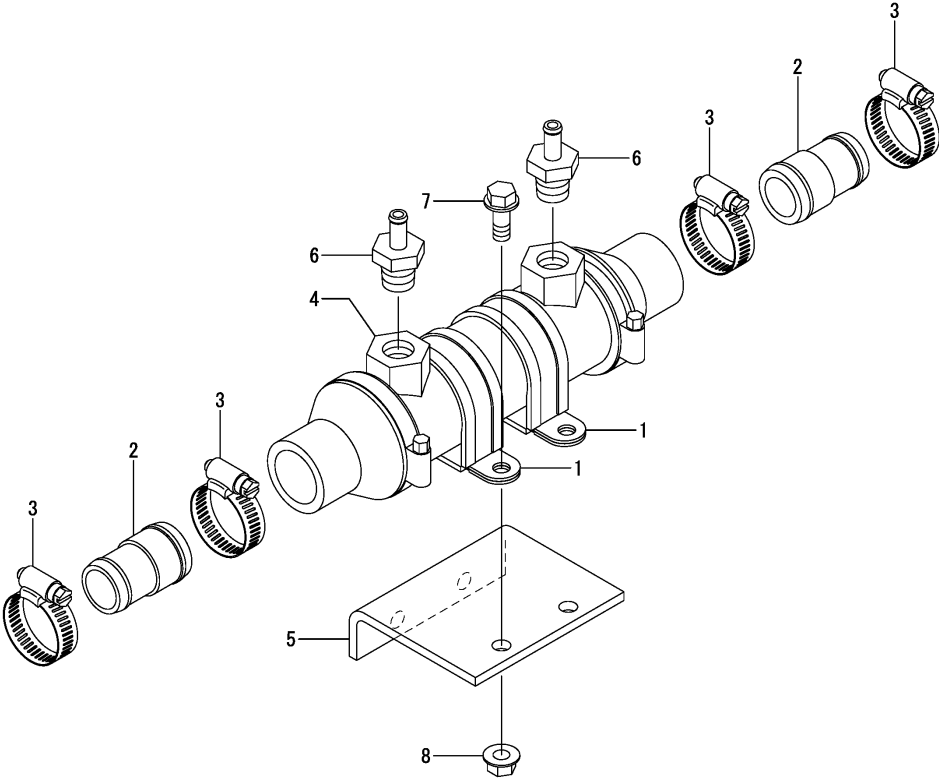


Remarks
(1)Non-branded filter(without Yanmar logo).
(2)Branded filter(with Yanmar logo).



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(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)								

Fig.68. (42A)FUEL COOLER(HULL SIDE)(OPTIONAL)

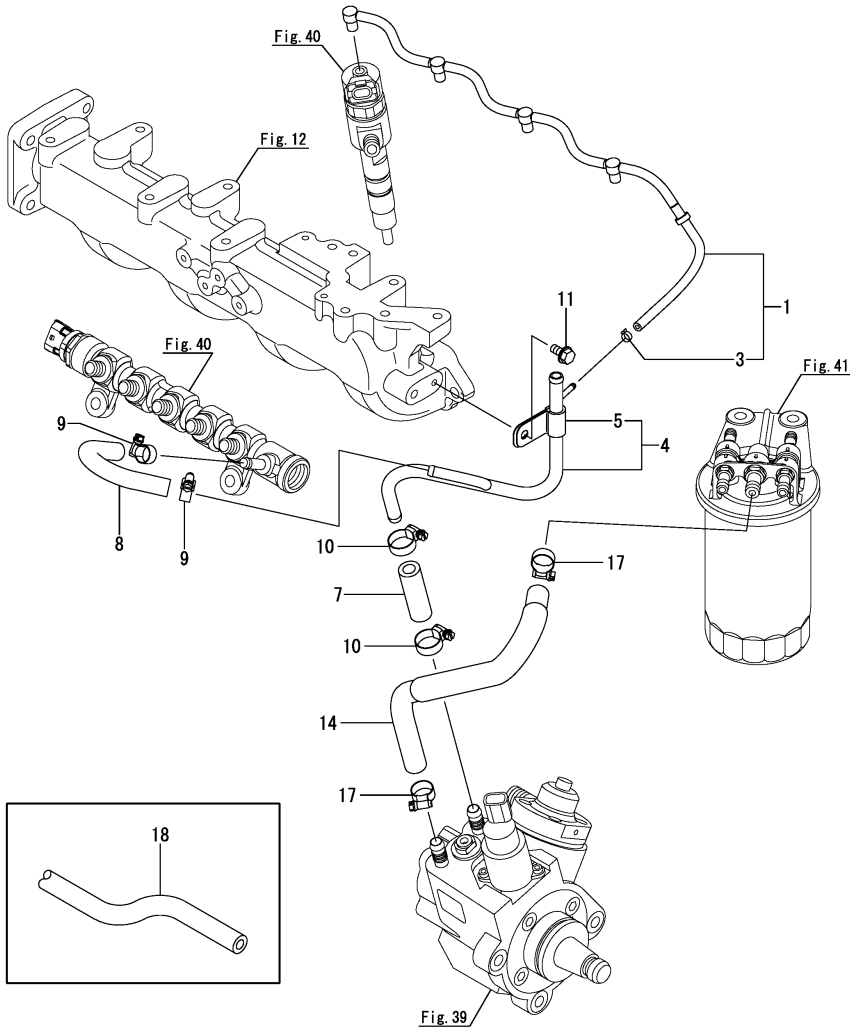


(A)=4JH80
(B)=4JH110
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-33930	CLAMP, LO COOLER	2	2						
2	1	129673-49410	JOINT, SEA WATER	2	2						
3	1	129670-49500	CLIP, HOSE 38	4	4						
4	1	129677-55750	COOLER ASSY, FO	1	1						
5	1	129677-55760	BRACKET, FO COOLER	1	1						
6	1	129677-59950	JOINT, FUEL HOSE	2	2						
7	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
8	1	26366-080002	NUT, M8	2	2						

Fig.43. FUEL PIPE



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

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

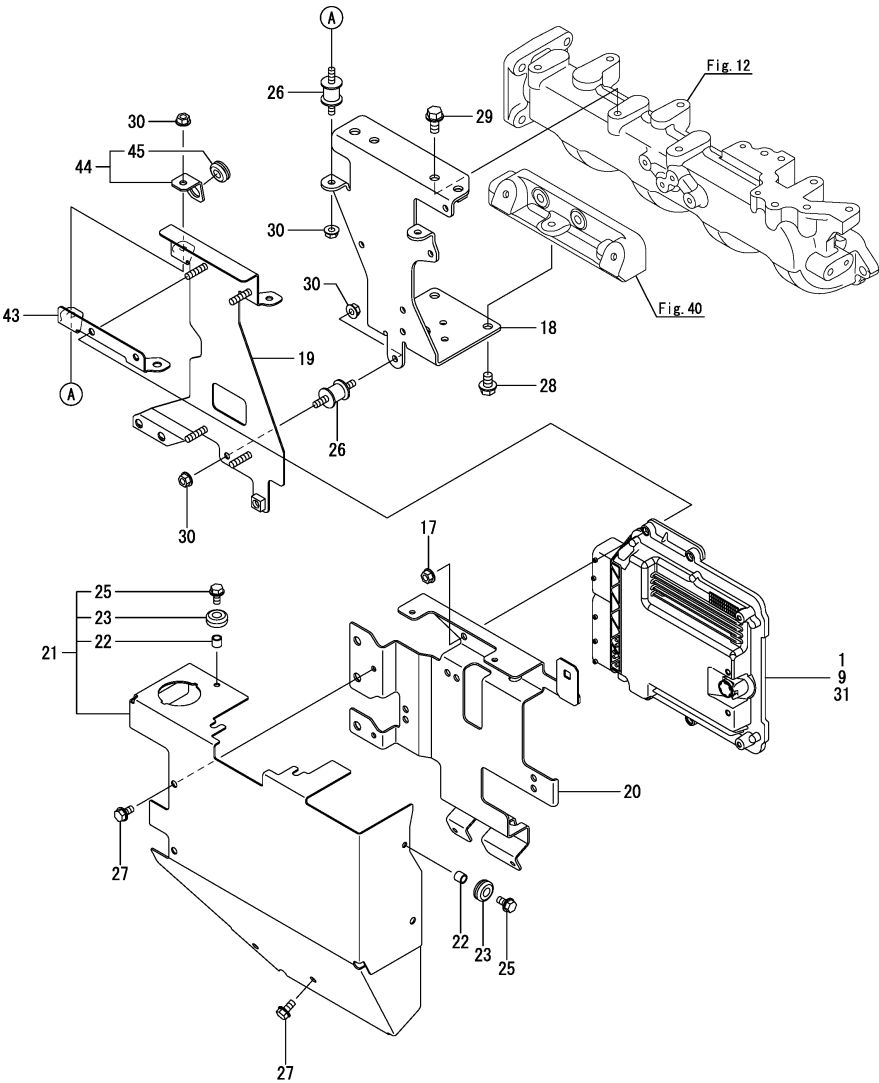
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129677-59500	PIPE ASSY, RETURN	1	1						
1-1	1	129677-59501	PIPE ASSY, RETURN	1	1					N	
(A=E50247) (B=E50247)											
3	2	23080-007000	CLAMP, 7	1	1						
4	1	129677-59090	PIPE ASSY, RETURN	1	1						
5	2	119802-49730	RETAINER, 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)=



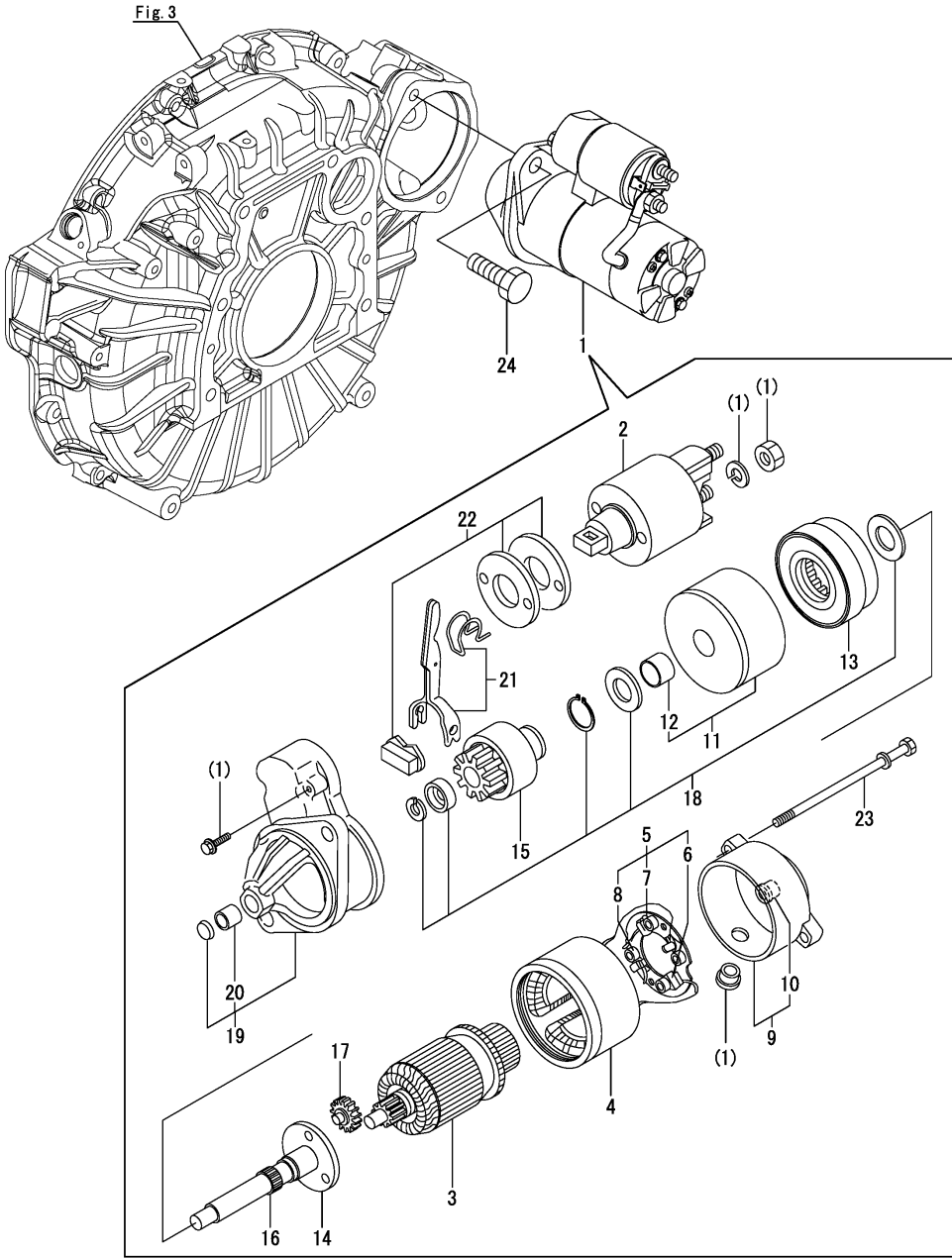
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129676-75010	ECU ASSY,4JH80	1							1
9	1	129677-75010	ECU ASSY,4JH110		1						1
17	1	26366-060002	NUT, M6	4	4						
18	1	129677-77720	BRACKET, ECU BASE	1	1						
18-1	1	129677-77721	BRACKET, ECU BASE	1	1						N
		(A=E50926)	(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

(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	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						

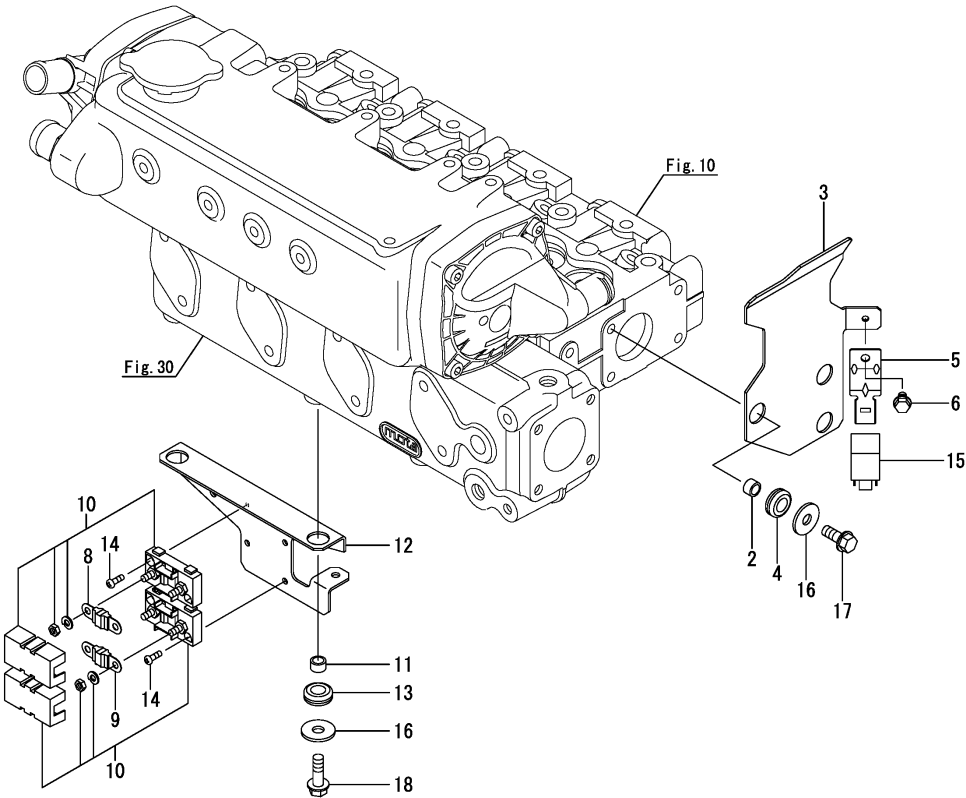
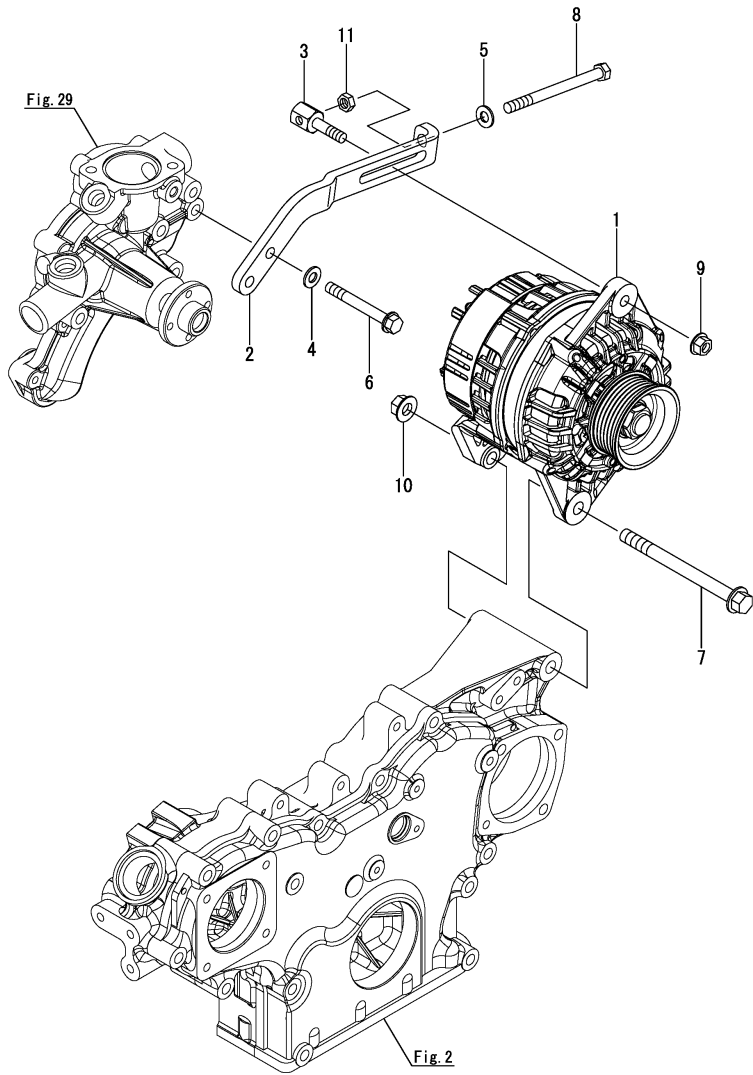


Fig.47. ALTERNATOR(EARTH TYPE)



(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						

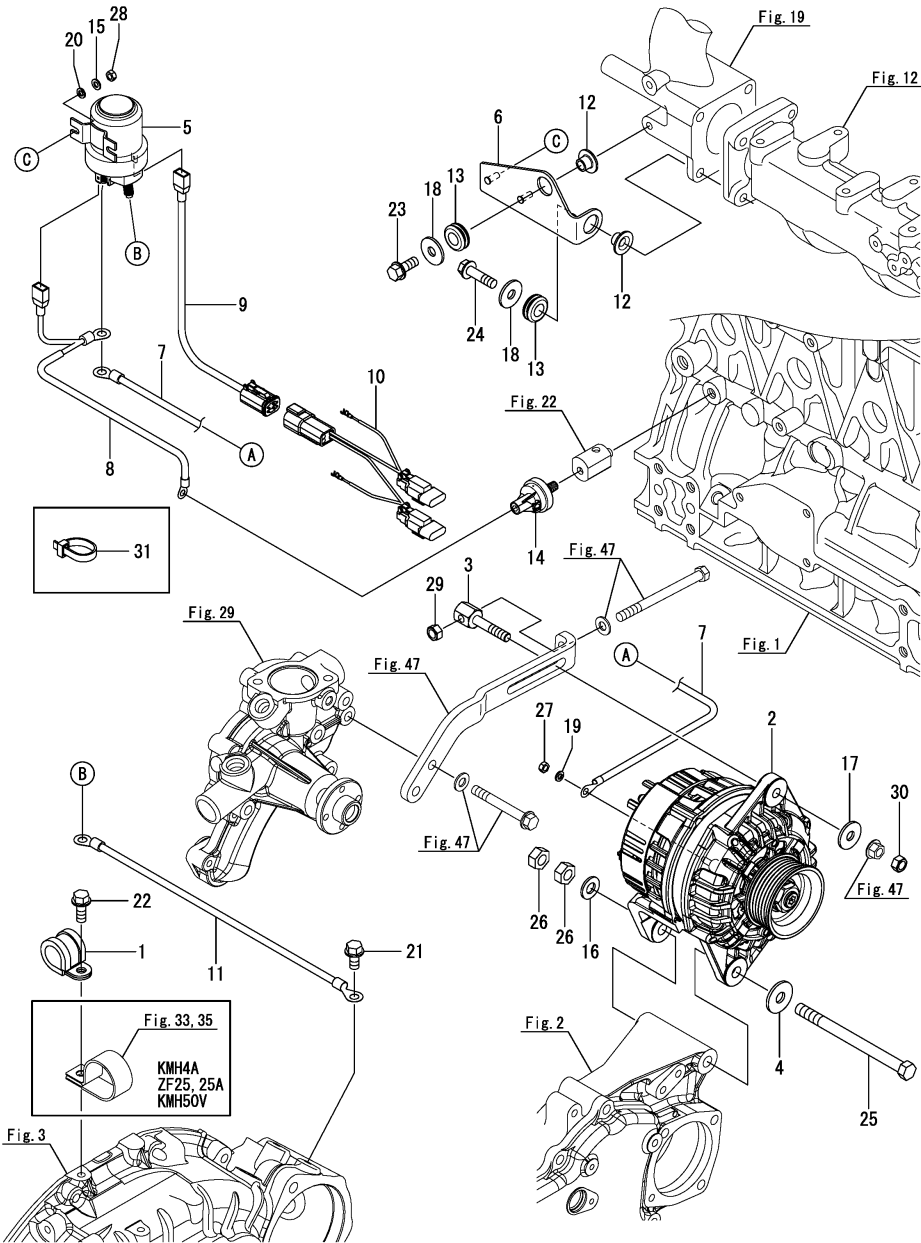
Remarks
(1)Inner parts are shown in Fig.71(48B).

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

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

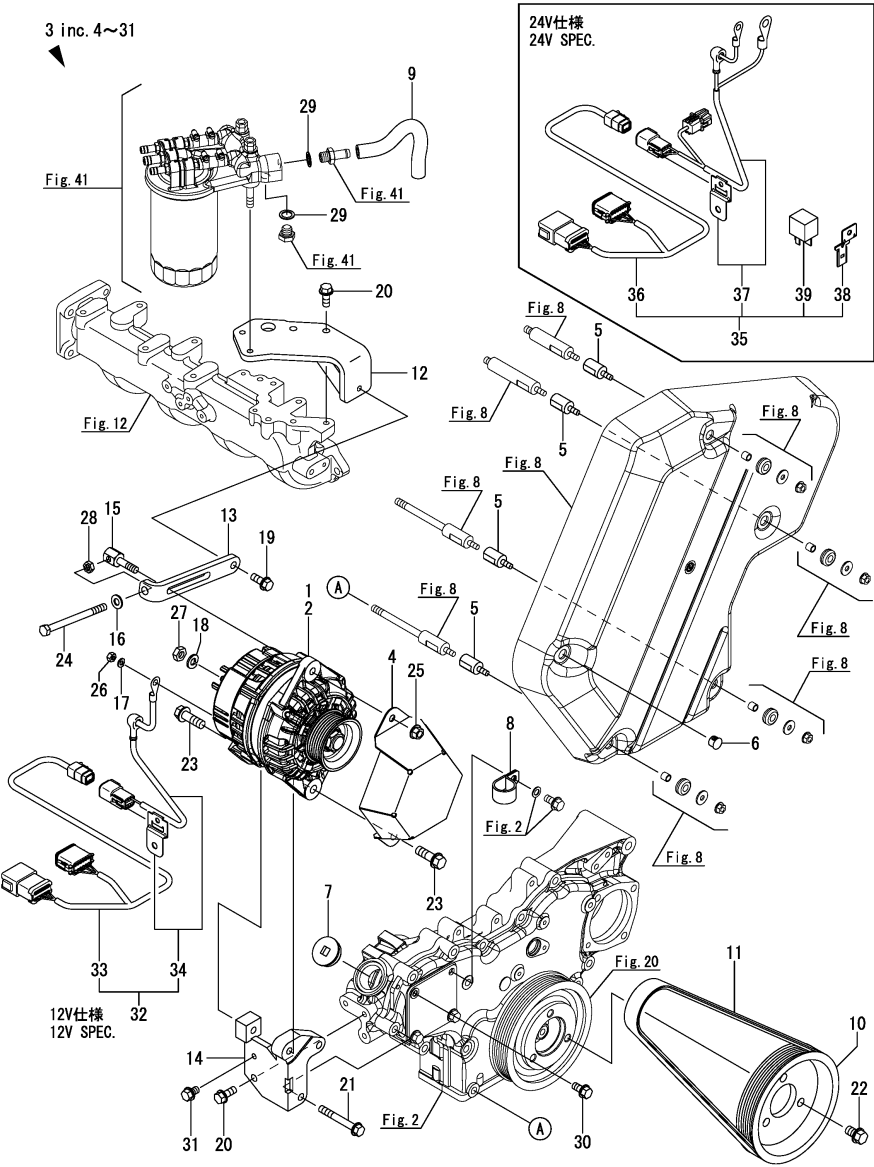
(D)=
(E)=
(F)=

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).

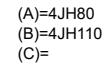
Fig.48. ALTERNATOR KIT(2ND)(OPTIONAL)



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)



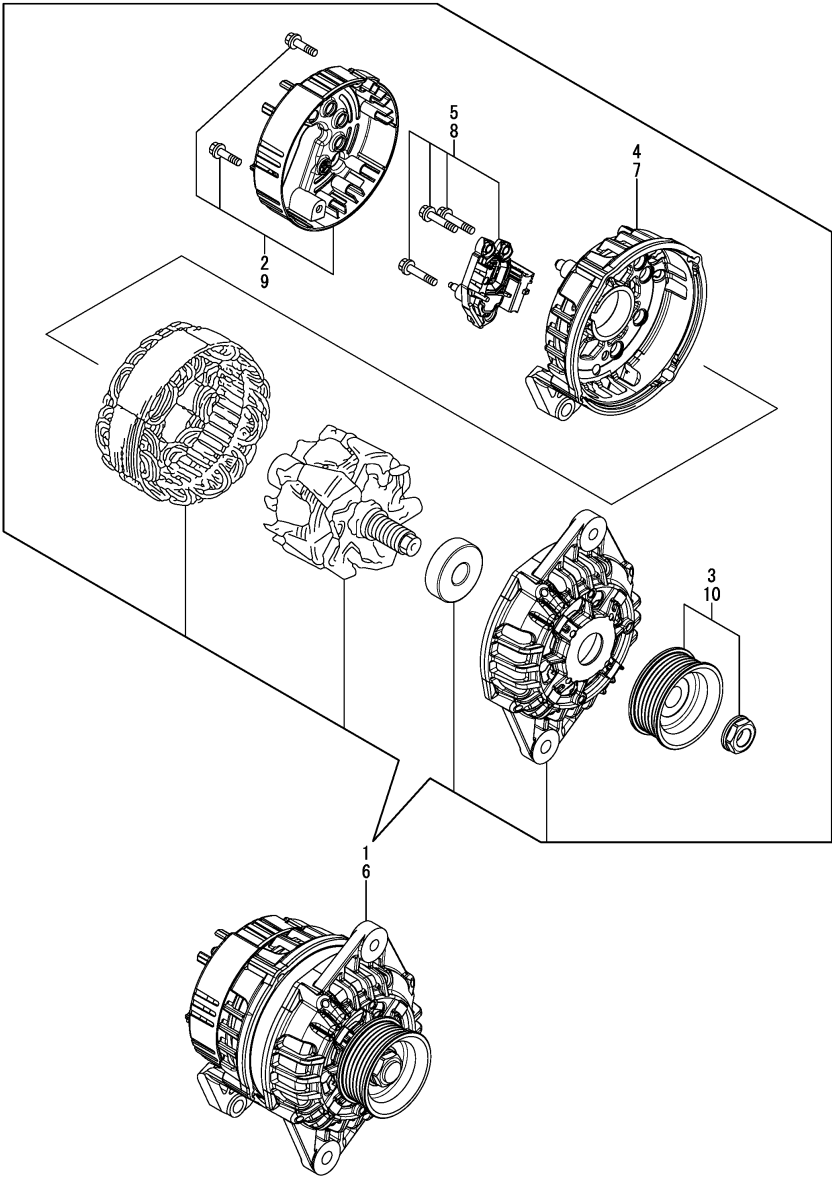
(D)=
(E)=
(F)=

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	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

(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.

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



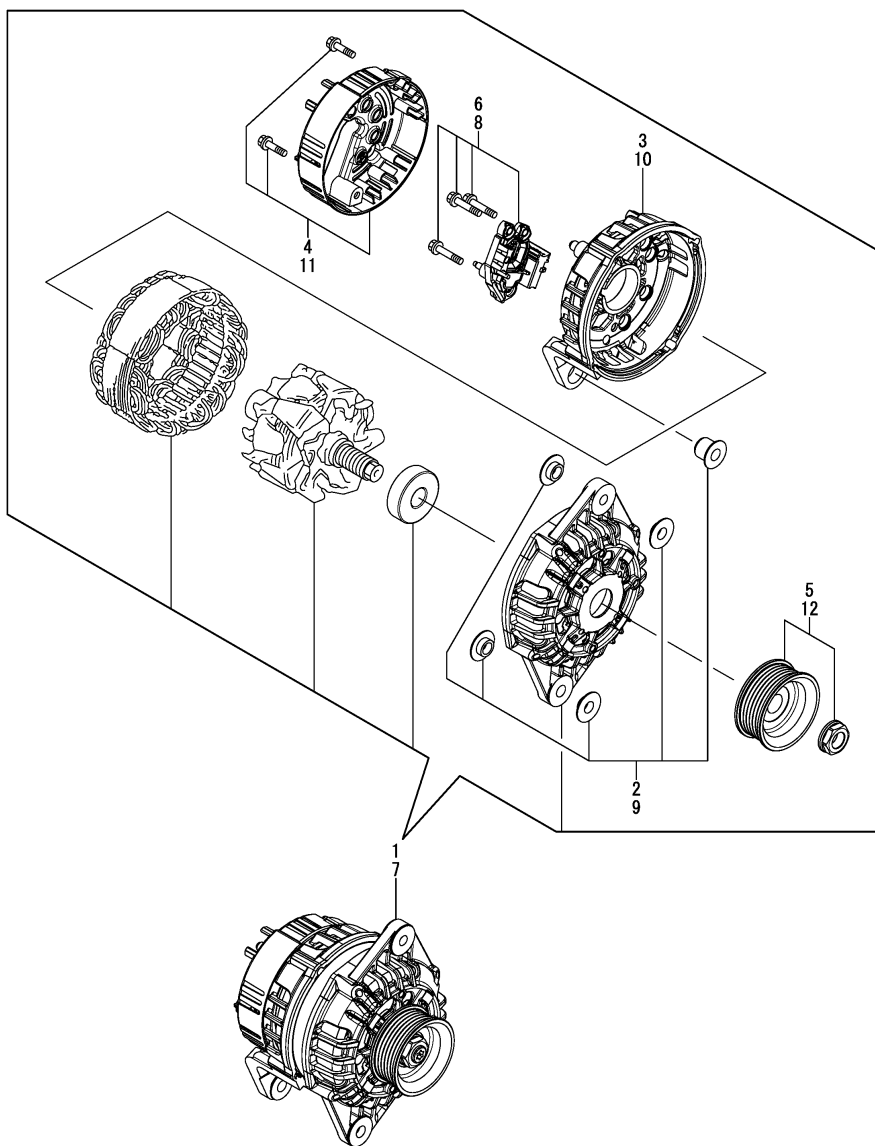
Remarks
(1)12V specification.
(2)24V specification.

(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	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)

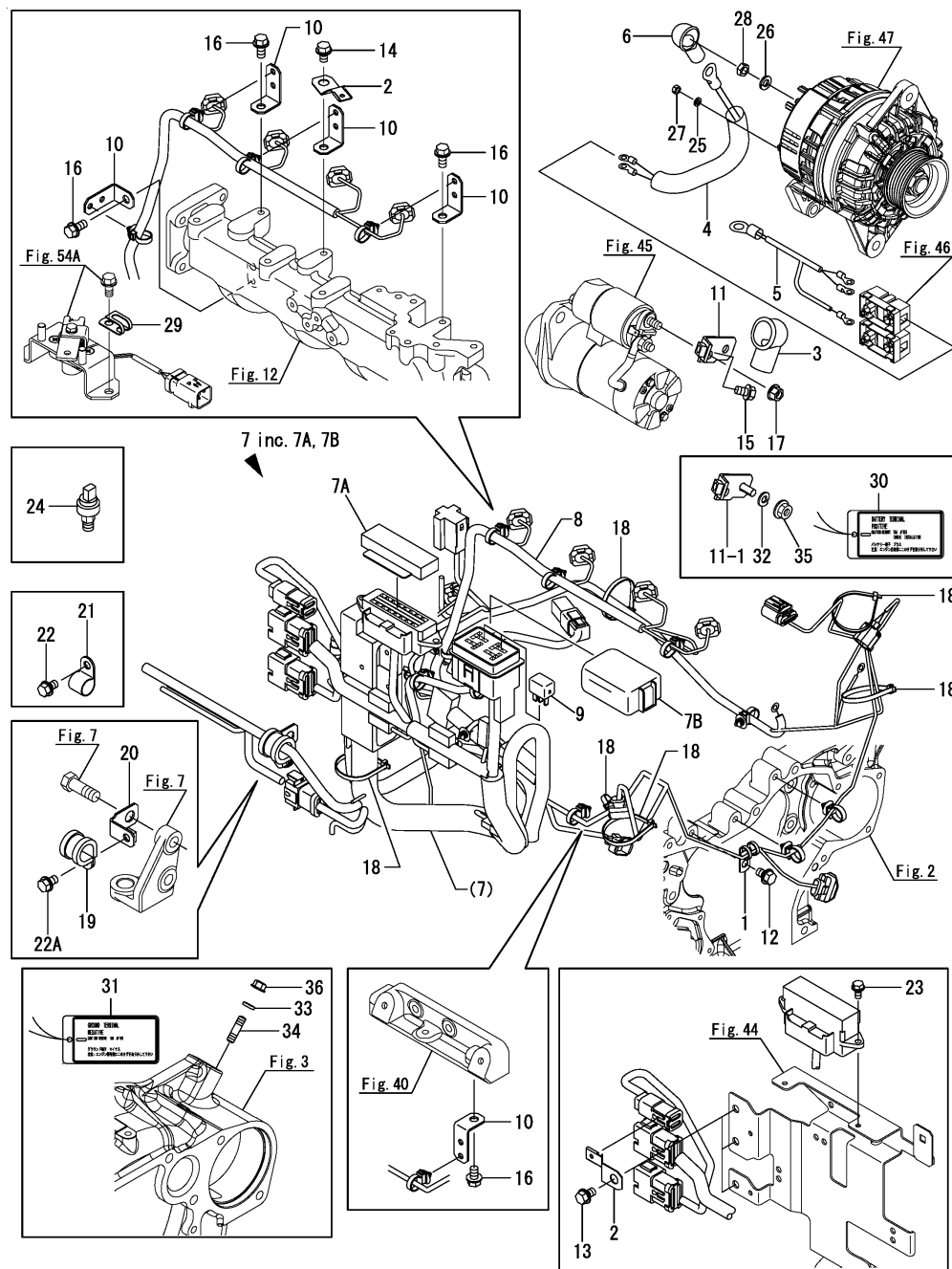


(1)12V specification.
(2)24V specification.

(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

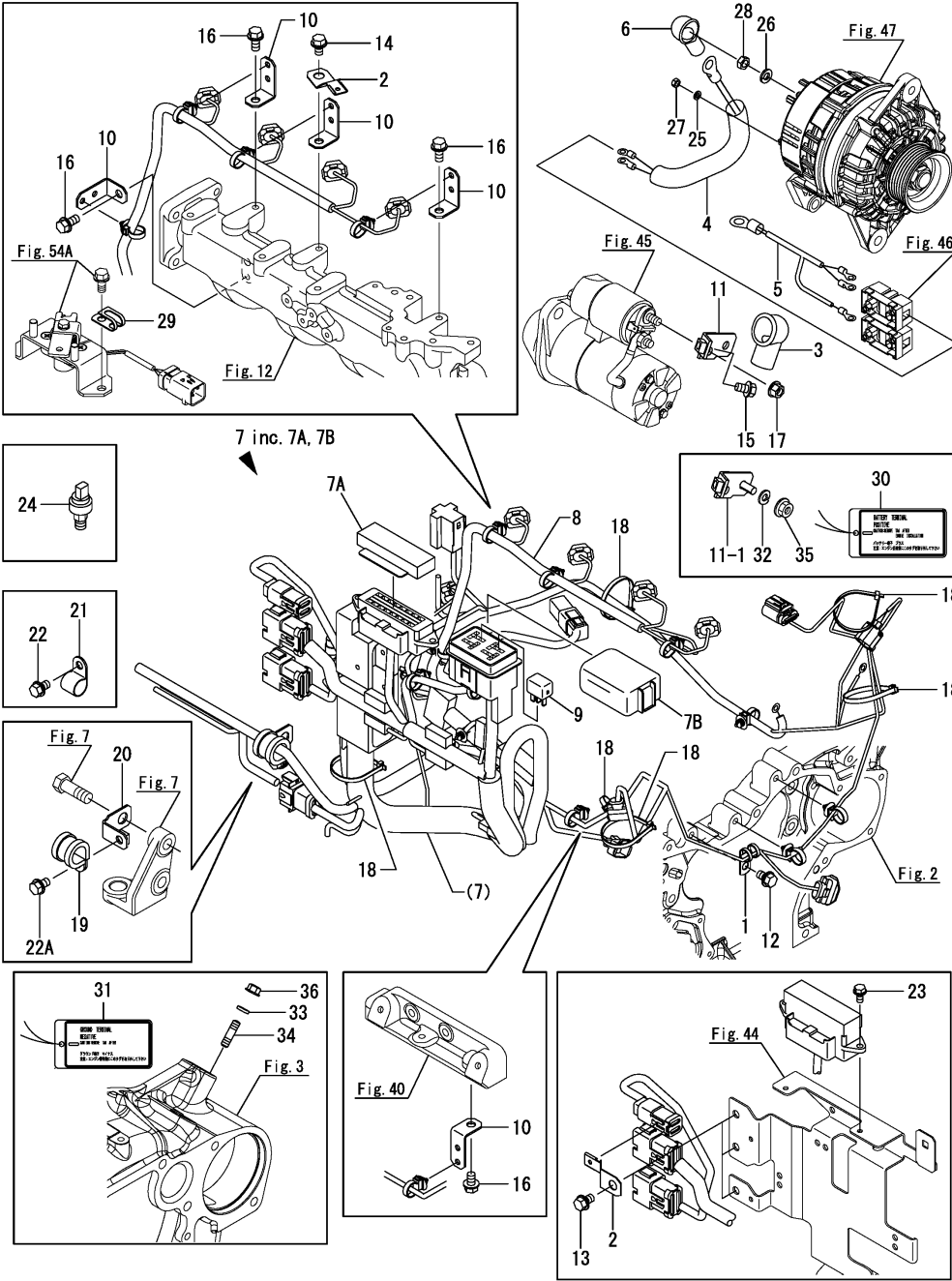
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(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						
11-1	1	129677-77591	TERMINAL, BATTERY	1	1						N
		(A=*2018.08)	(B=*2018.08)								
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=E/#50450)	(B=E/#50562)								
22	1	26106-080122	BOLT, M8X 12 PLATED	1	1						Z
		(A=E/#50450)	(B=E/#50562)								
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=E/#50450)	(B=E/#50562)								
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=E/#50450)	(B=E/#50562)								
30	1	129677-07450	LABEL, BATTERY+	1	1						W
		(A=*2018.08)	(B=*2018.08)								
31	1	129677-07460	LABEL, GROUND-	1	1						W
		(A=*2018.08)	(B=*2018.08)								
32	1	22217-080000	WASHER, SPRING 8	1	1						W
		(A=*2018.08)	(B=*2018.08)								
33	1	22217-080000	WASHER, SPRING 8	1	1						W
		(A=*2018.08)	(B=*2018.08)								
34	1	26216-080202	STUD, M8X 20	1	1						W
		(A=*2018.08)	(B=*2018.08)								

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
 ++ CONTINUE ++
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Fig.49. WIRE HARNESS

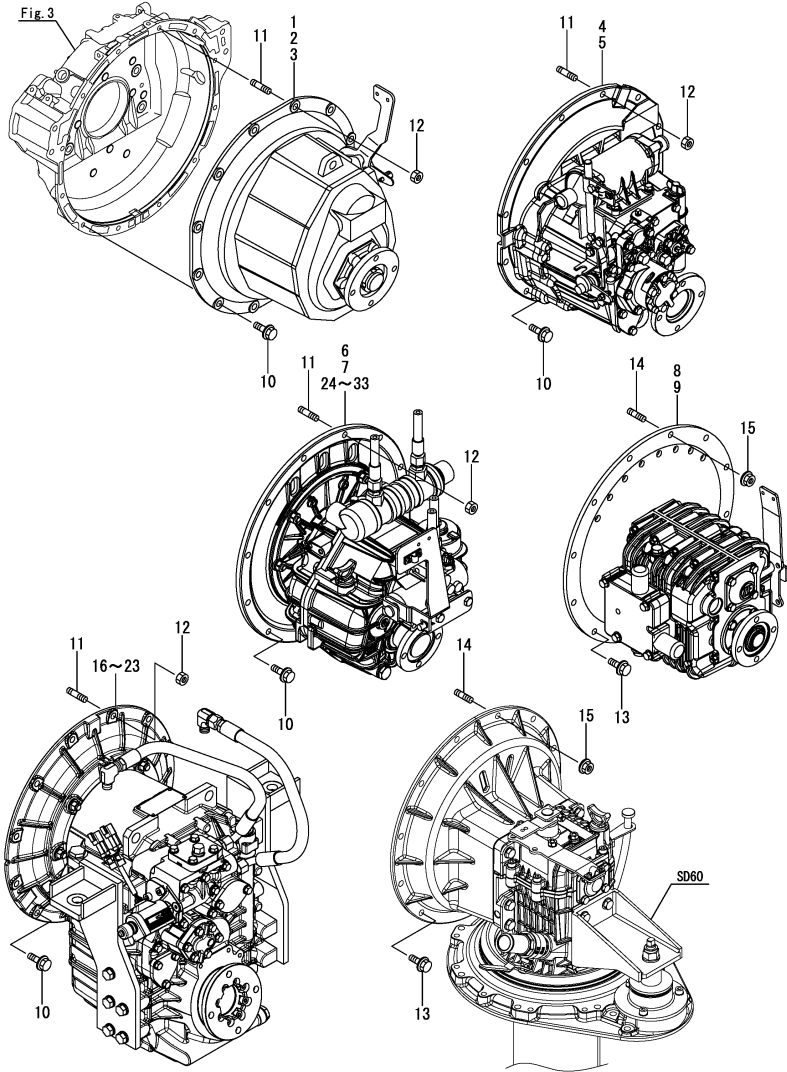


(A)=4JH80
(B)=4JH110
(C)=

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

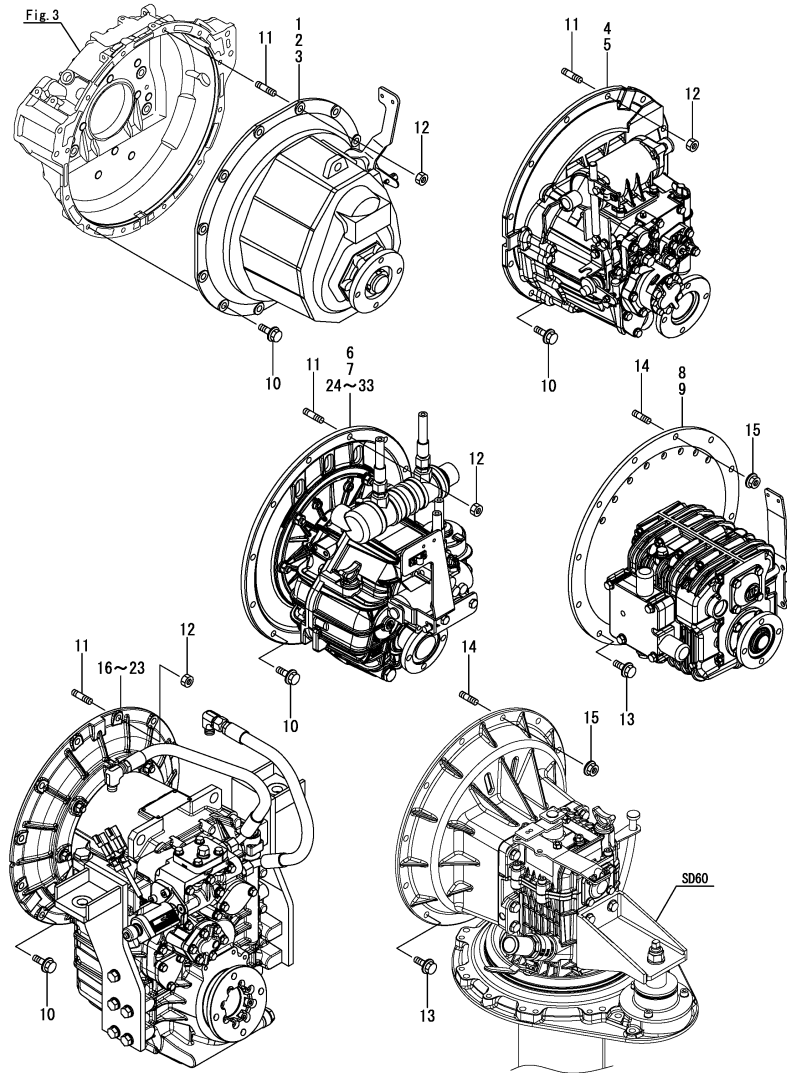
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
35	1	26366-080002	NUT, M8	1	1						W
(A=*2018.08.) (B=*2018.08)											
36	1	26366-080002	NUT, M8	1	1						W
(A=*2018.08) (B=*2018.08)											

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)=

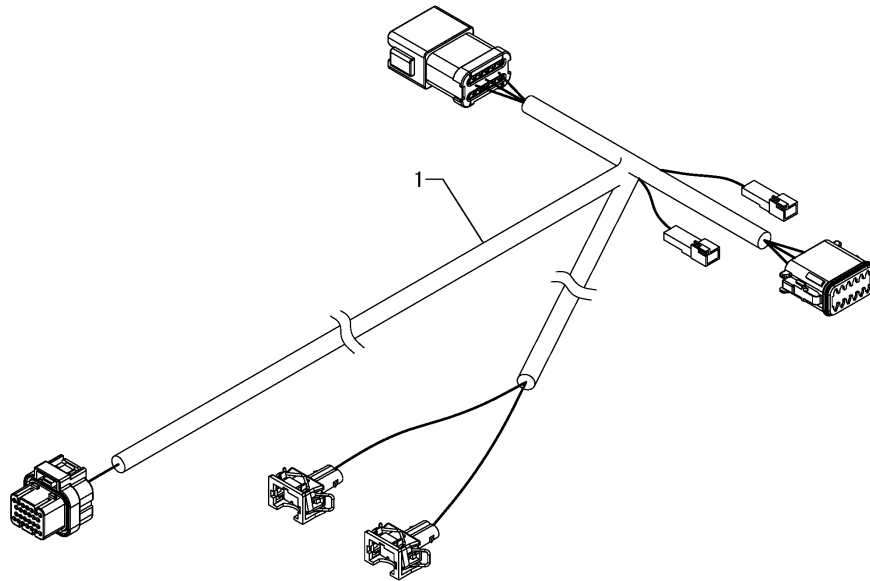
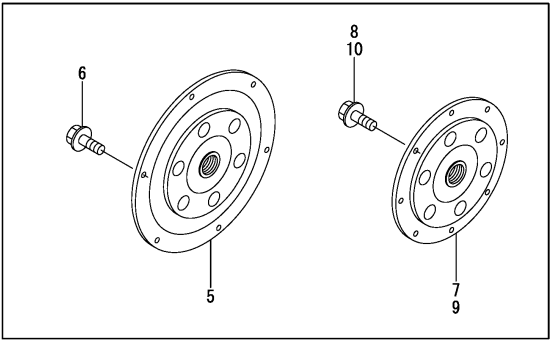
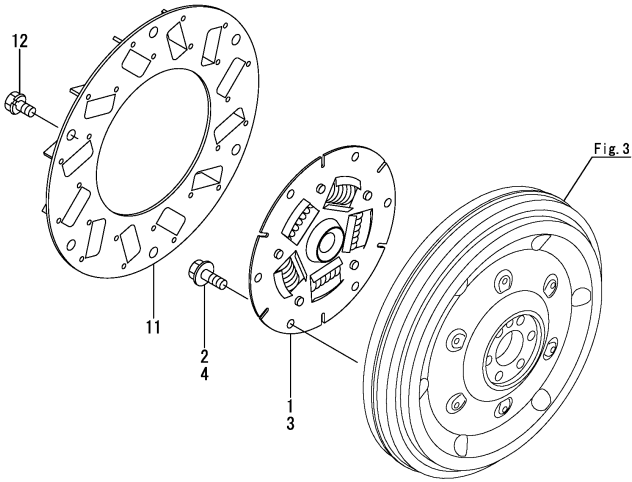
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Fig.52. DAMPER DISC(OPTIONAL)

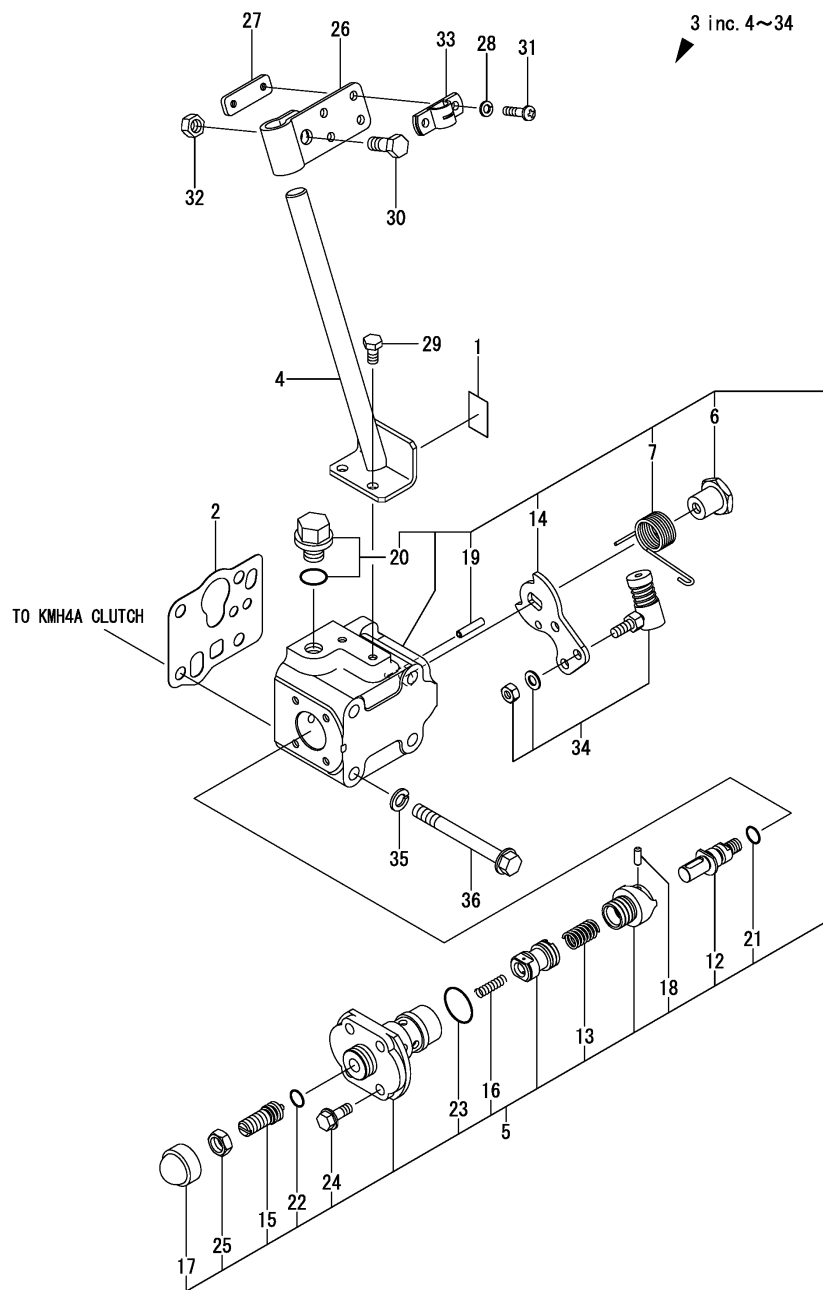


Remarks
(1)For KM4A2.
(2)For SD60.
(3)For KMH4A.
(4)For ZF25, ZF25A.
(5)For ZF30M.

OCF50-M00091 Fig.52

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

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)

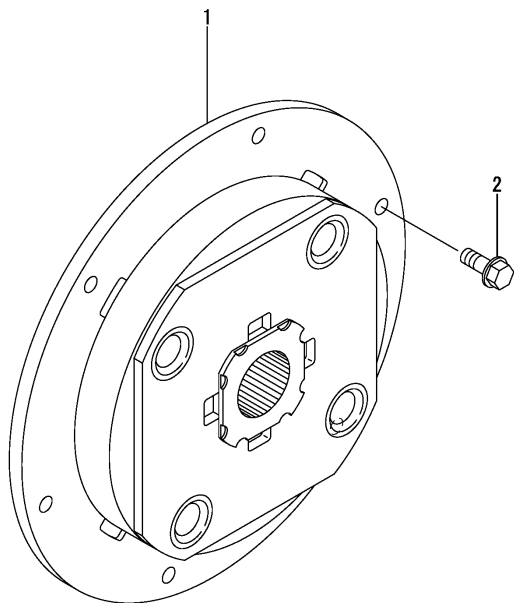
[illegible]

Fig.75. (52C)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	129676-81900	DRIVE ASSY,SPPSB 80	1							

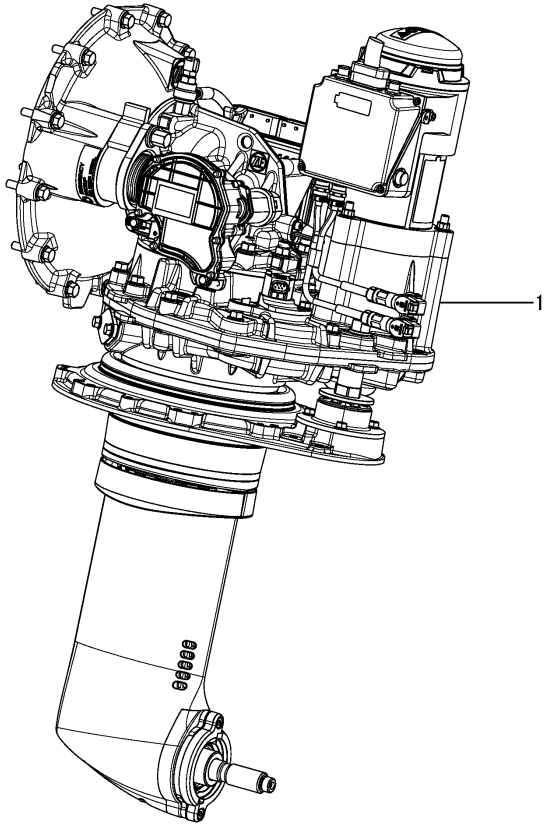


Fig.53. ELECTRIC PARTS(FOR SD60, S2 DRIVE)

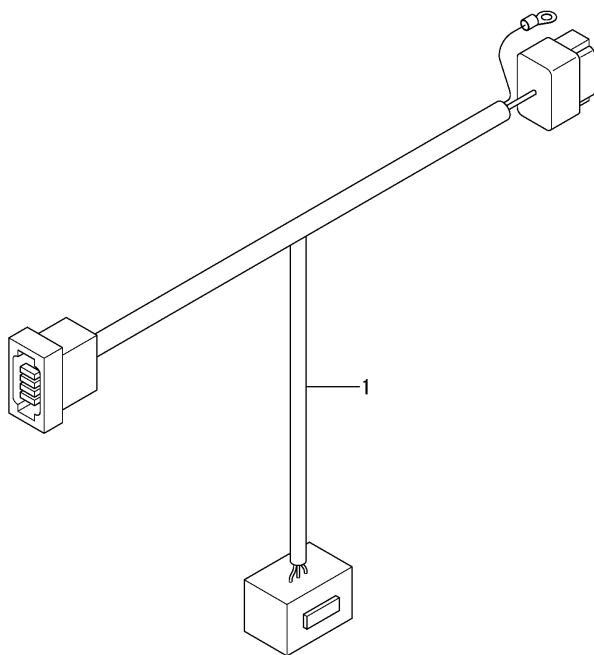
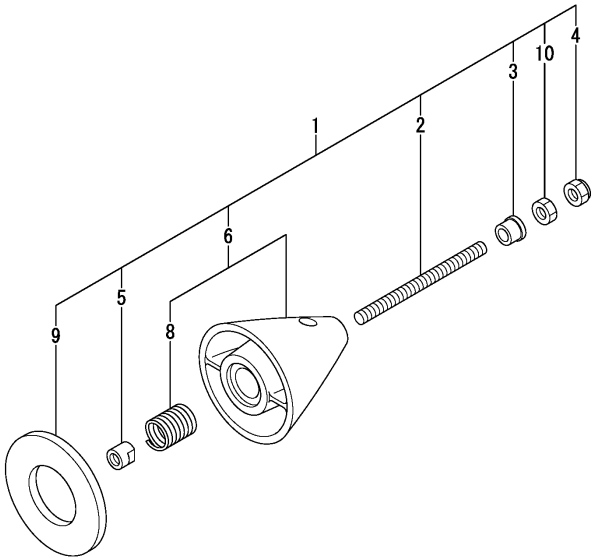
[illegible]

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

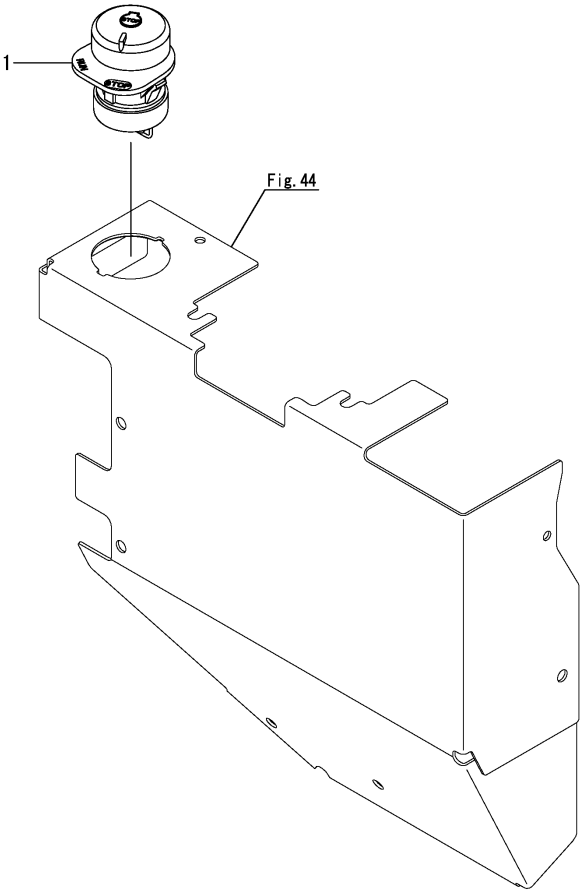


(A)=4JH80
(B)=4JH110
(C)=

(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 (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, EMERGENCY	1	1						

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

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

[illegible]

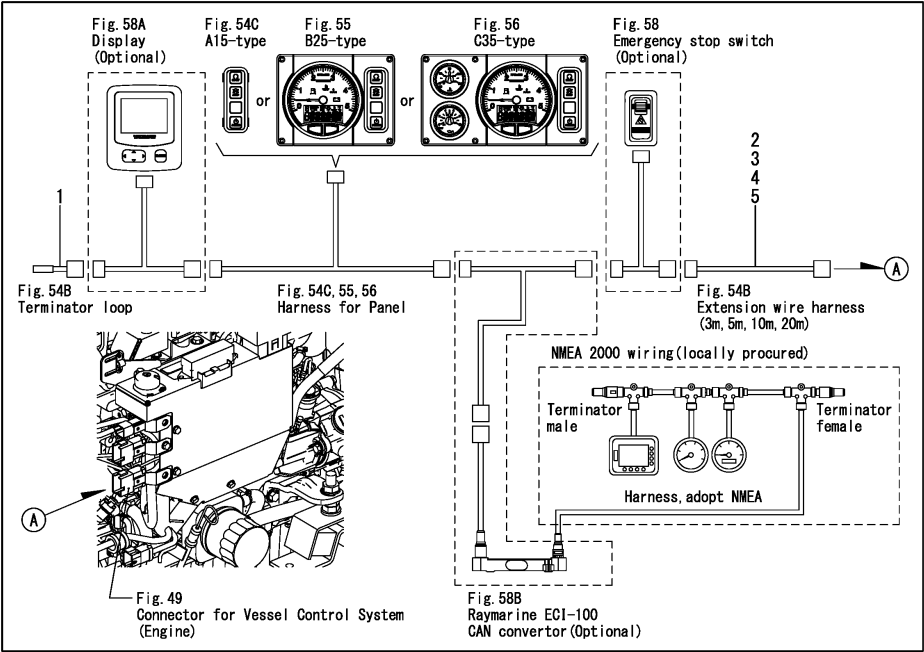
(1) Fig.9 No.11 interchangeable by set.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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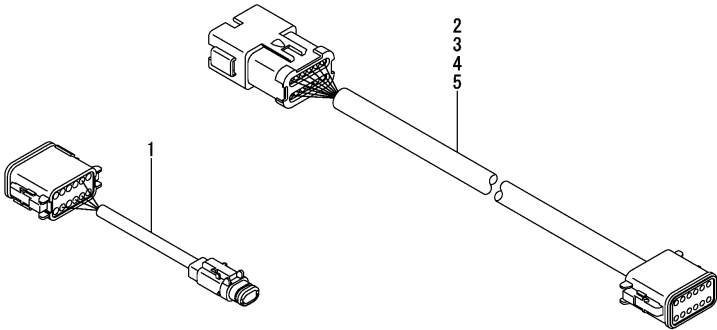
Fig.50. (54B)TERMINAL ADAPTER & EXTENSION HARNESS(FOR A15, B25, C35 PANEL)

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

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

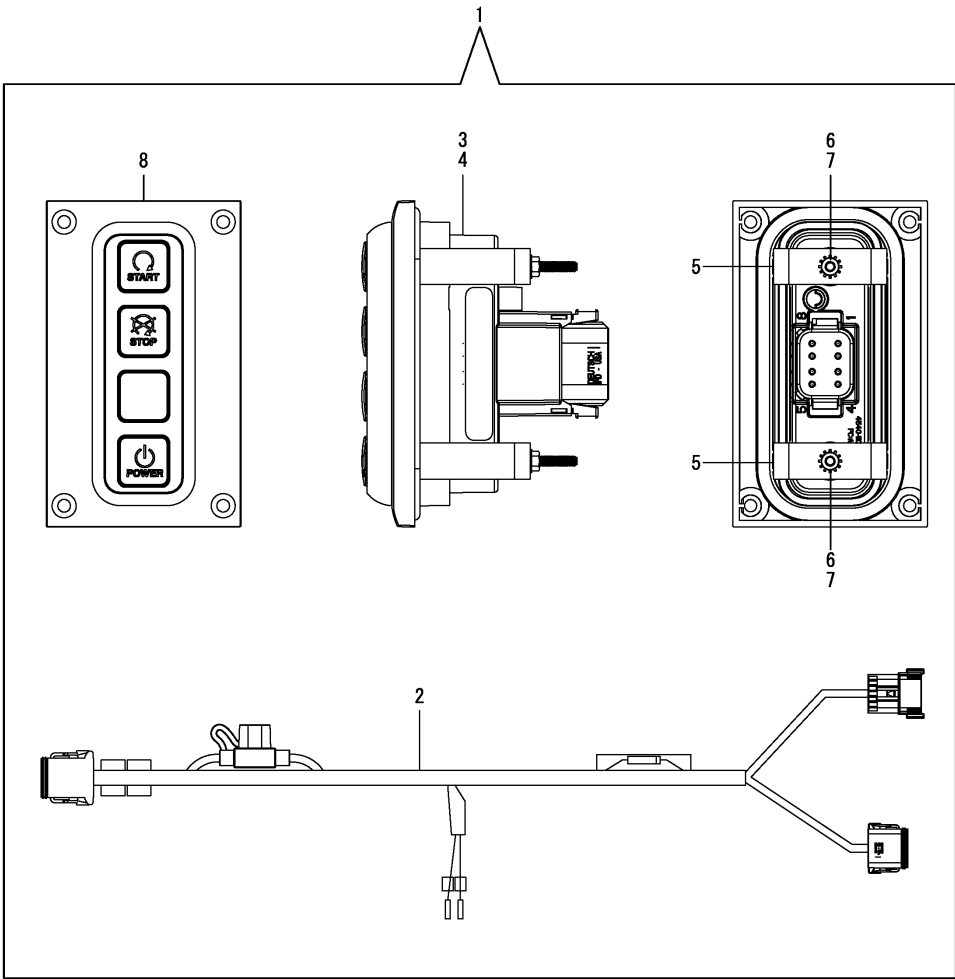


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-29000	ADAPTER, TERMINAL	1	1						
2	1	164000-22210	HARNESS, WIRE 3M	1	1						1
2-1	1	164000-22211	HARNESS, EXT 3M	1	1					N	1
(A=*2016.11.) (B=*2016.11.)											
3	1	164000-22220	HARNESS, WIRE 5M	1	1						1
3-1	1	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	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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.)								
1-2	1	164100-30412	PANEL ASSY, A15	1	1						N
		(A=E/#54127)	(B=E/#54128)								
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						
8	2	164100-39400	FRAME	1	1						W
		(A=E/#54127)	(B=E/#54128)								

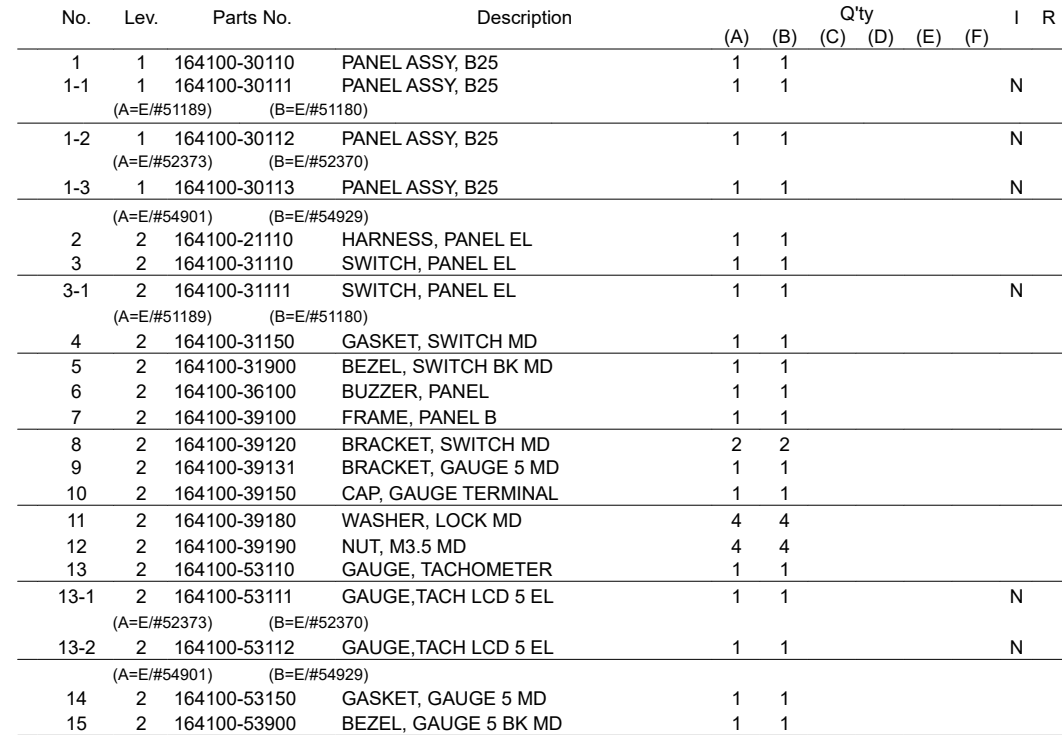
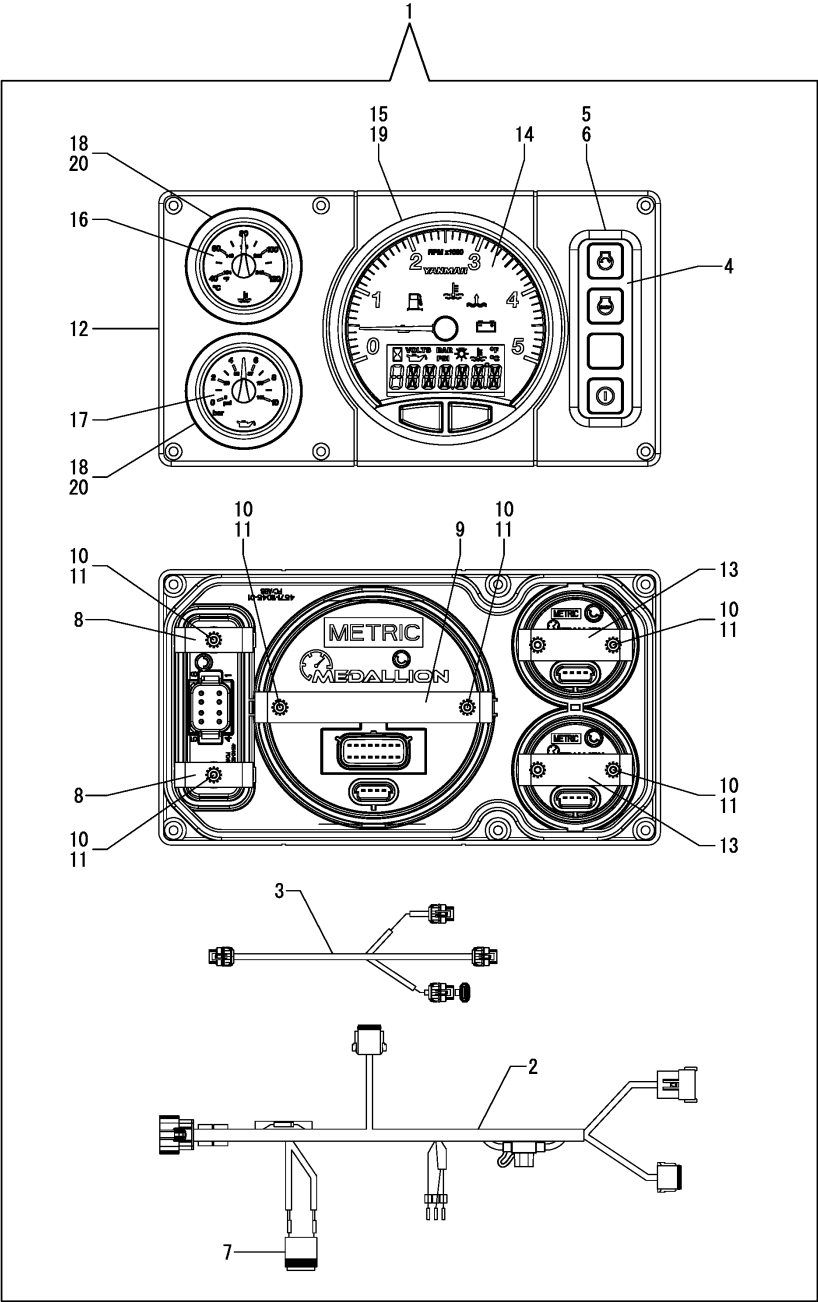


Fig.56. INSTRUMENT PANEL(C35)(MEDALLION)

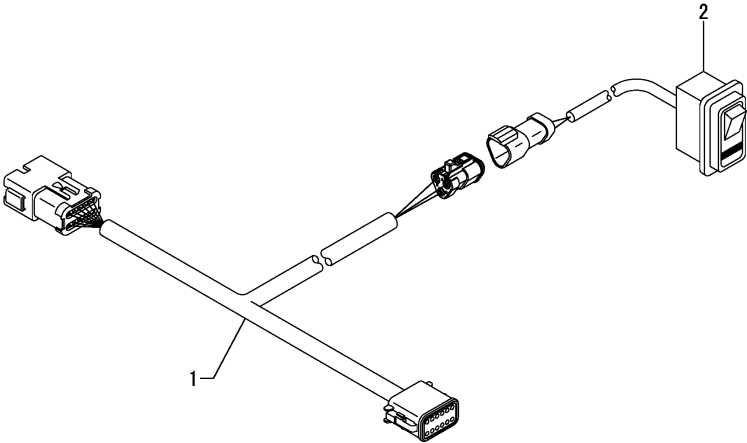
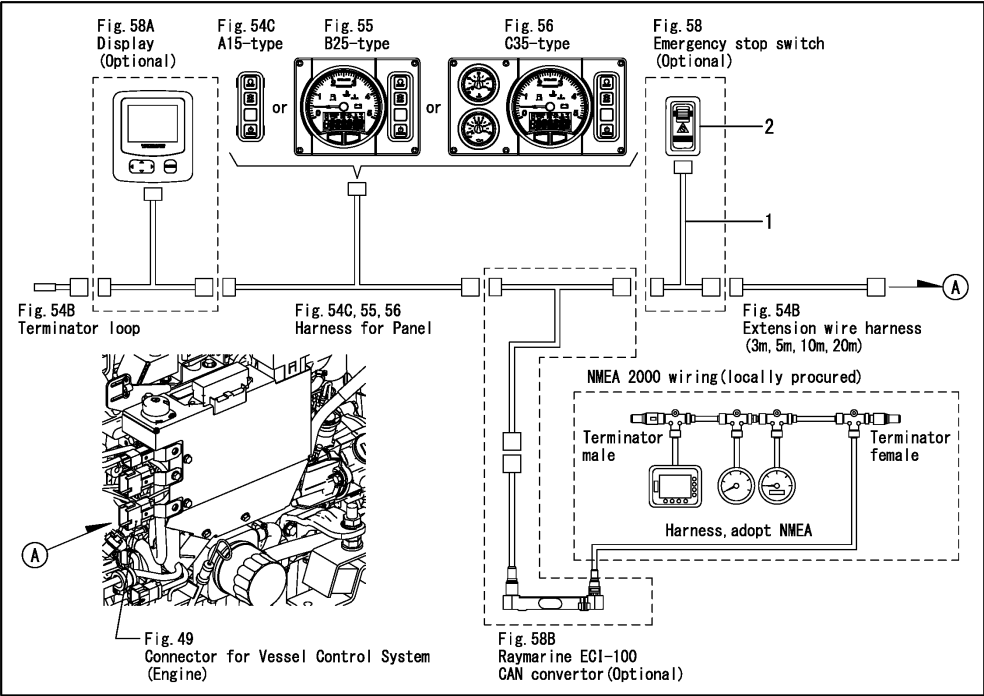
(A)=4JH80
(B)=4JH110
(C)=

(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=E/#51249) (B=E/#51226)											
1-2	1	164100-30312	PANEL ASSY, C35	1	1						N
(A=E/#52373) (B=E/#52370)											
1-3	1	164100-30313	PANEL ASSY, C35	1	1						N
(A=E/#54901) (B=E/#54929)											
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=E/#51249) (B=E/#51226)											
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=E/#52373) (B=E/#52370)											
14-2	2	164100-53112	GAUGE, TACH LCD 5 EL	1	1						N
(A=E/#54901) (B=E/#54929)											
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						

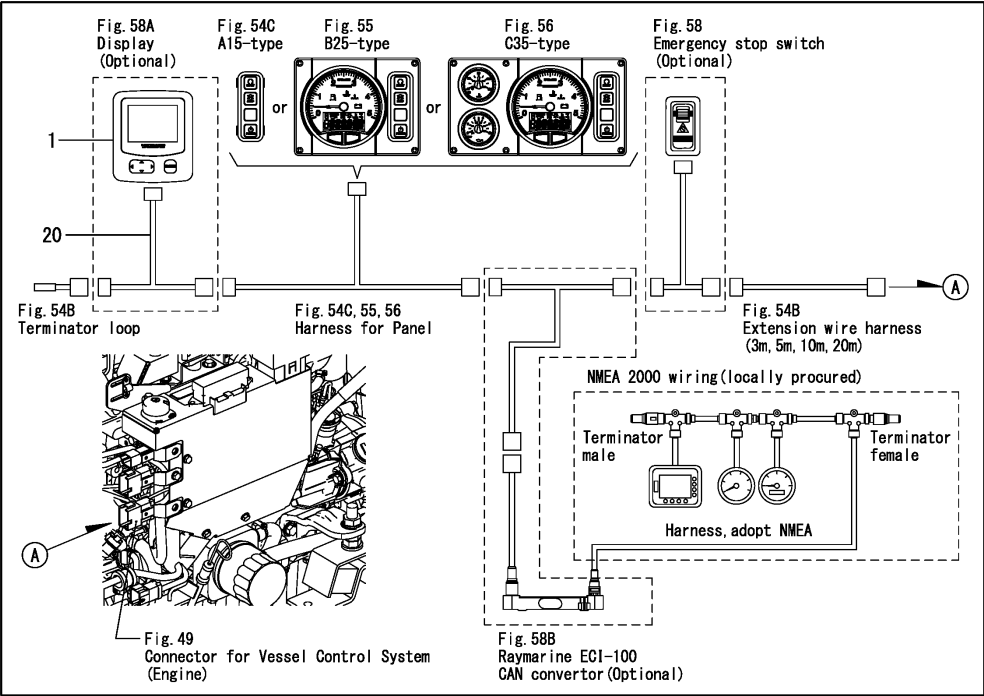
Fig.58. EMERGENCY STOP SWITCH(FOR A15, B25, C35 PANEL)(OPTIONAL)



(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						
1-1	1	164000-51048	DISPLAY ASSY,VC10-2	1	1					N	
(A=*2018.09) (B=*2018.09)											
1-2	1	164000-51049	DISPLAY ASSY,VC10-2	1	1					N	
(A=E/#53378) (B=E/#53418)											
1-3	1	164000-51070	DISPLAY ASSY,VC10-2	1	1					N	
(A=E/#54192) (B=E/#54636)											
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						

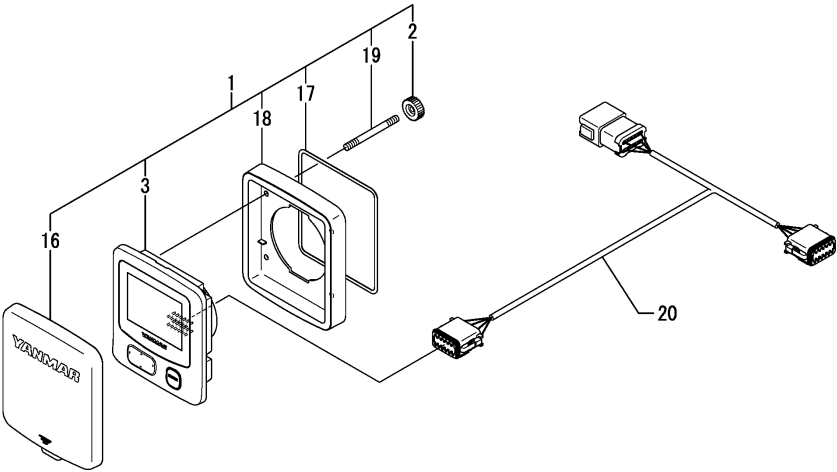
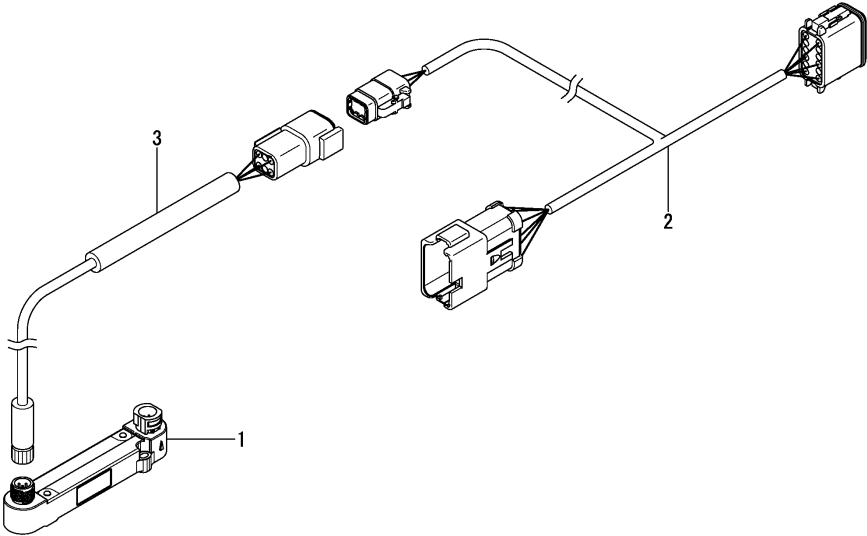
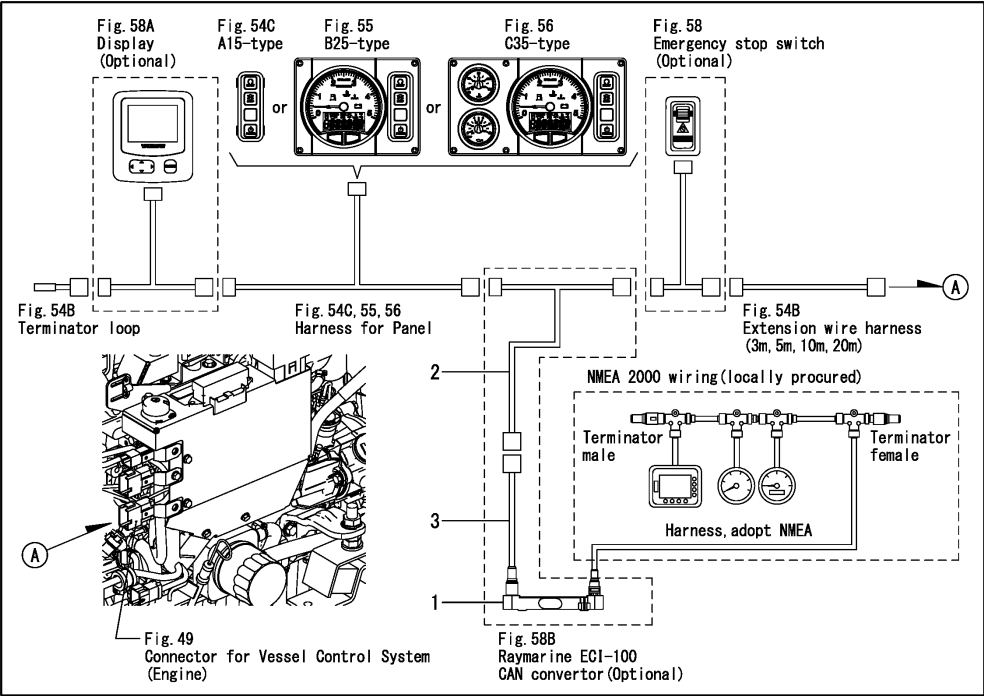


Fig.79. (58B)CAN CONVERTOR(FOR A15, B25, C35 PANEL)(OPTIONAL)

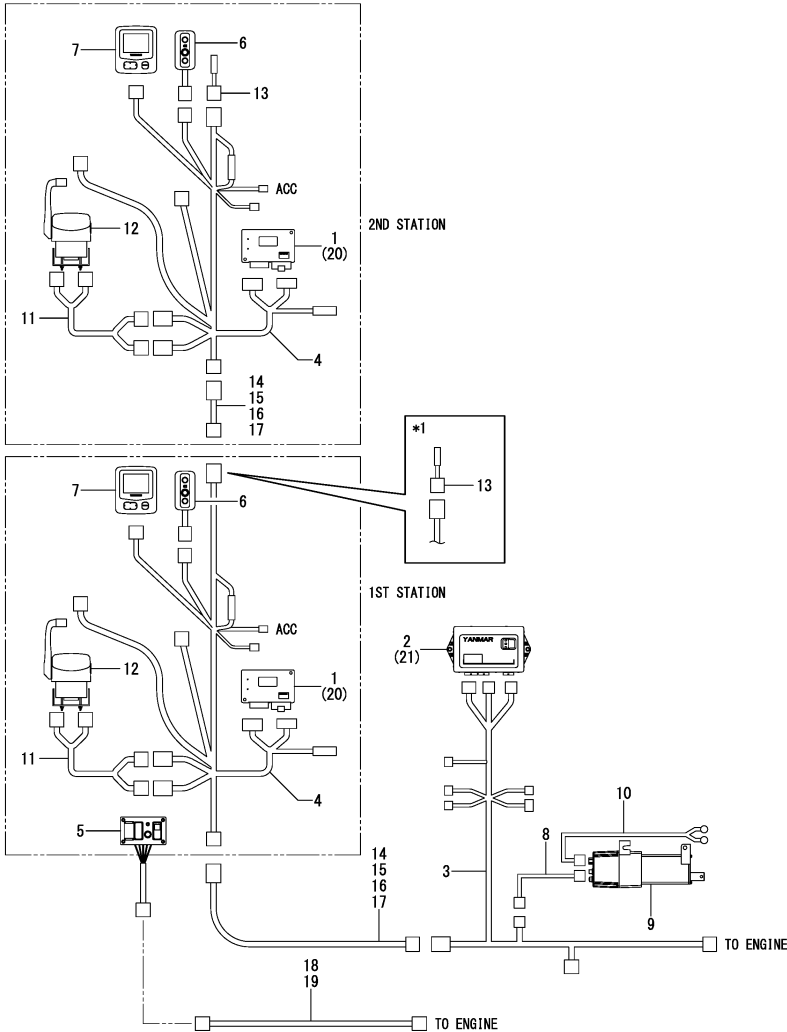


(A)=4JH80
(B)=4JH110
(C)=

(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	HARNESS, WIRE	1	1						
3	1	164000-24801	CABLE,CAN A	1	1						

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



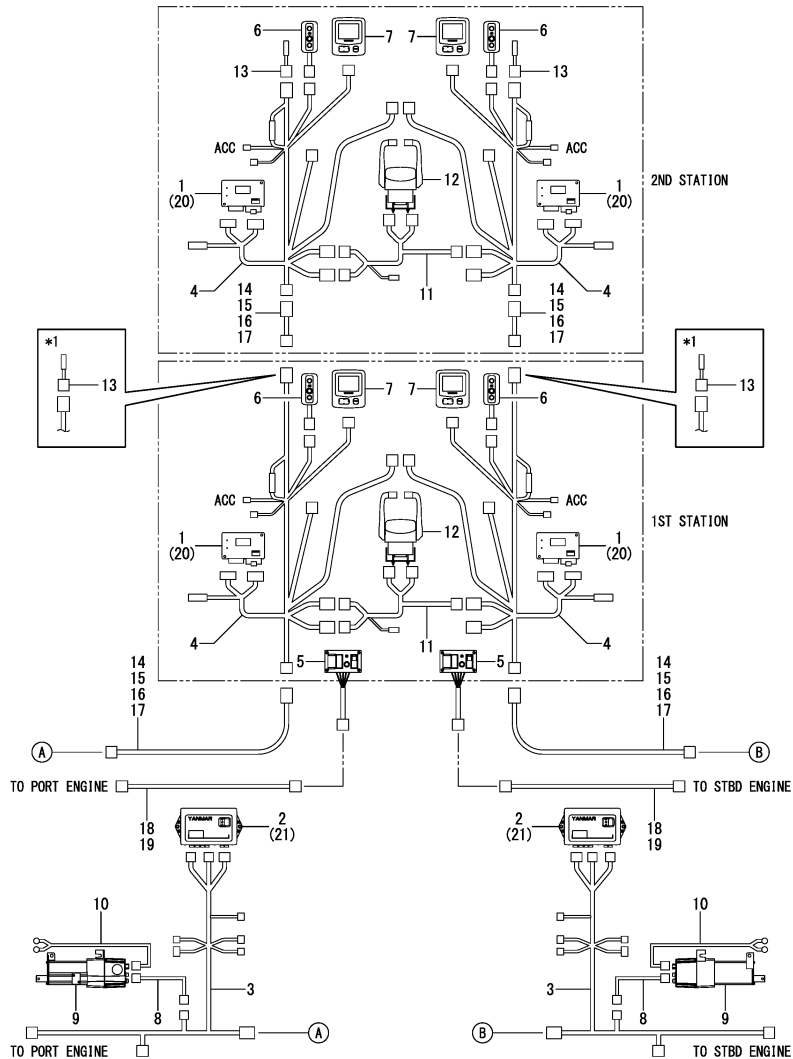
Remarks
*1. For single station, be sure to connect No.16 Adapter, terminal here.
(1)Eco Controller
This part cannot be ordered.
Spare the part using a Service Controller with the proper engine information installed.
(2)Service Controller
If the proper information is not installed, the engine will not 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	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
7-1	1	164000-51048	DISPLAY ASSY,VC10-2	1	1					N	3
(A=*2018.09) (B=*2018.09)											
7-2	1	164000-51049	DISPLAY ASSY,VC10-2	1	1					N	3
(A=E/#53378) (B=E/#53418)											
7-3	1	164000-51070	DISPLAY ASSY,VC10-2	1	1					N	3
(A=E/#54192) (B=E/#54636)											
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

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



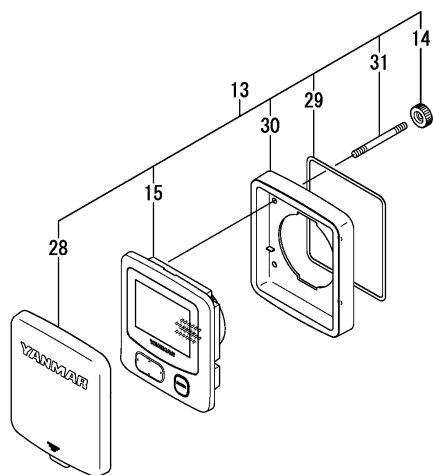
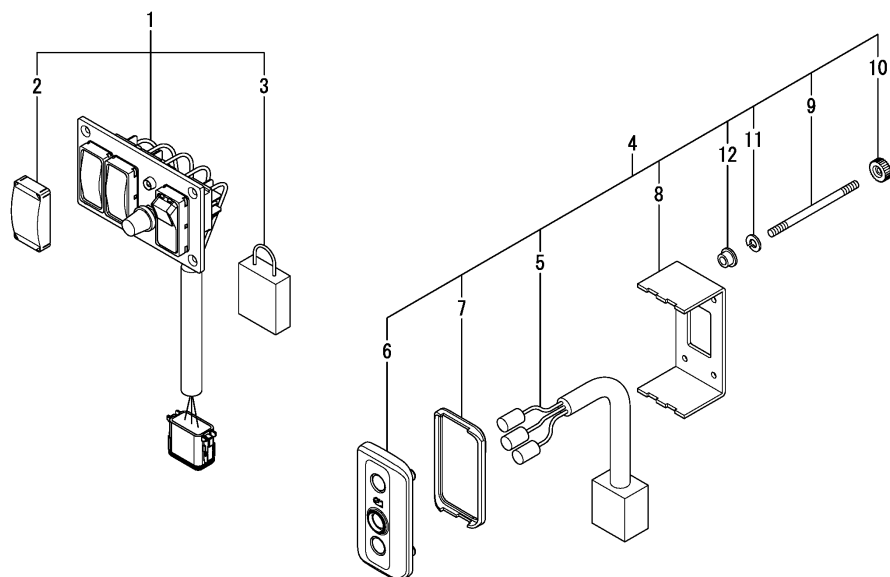
Remarks
*1. For single station, be sure to connect No.16 Adapter, terminal here.
(1)Eco Controller
This part cannot be ordered.
Spare the part using a Service Controller with the proper engine information installed.
(2)Service Controller
If the proper information is not installed, the engine will not 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
7-1	1	164000-51048	DISPLAY ASSY,VC10-2	1	1					N	3
(A=*2018.09) (B=*2018.09)											
7-2	1	164000-51049	DISPLAY ASSY,VC10-2	1	1					N	3
(A=E/#53378) (B=E/#53418)											
7-3	1	164000-51070	DISPLAY ASSY,VC10-2	1	1					N	3
(A=E/#54192) (B=E/#54636)											
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

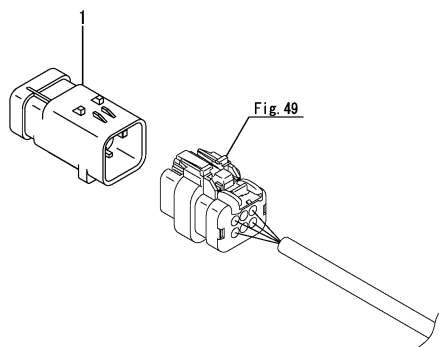
Fig.82. (58E)VC10(DISPLAY & PANEL)(INNER PARTS)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
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						
13-1	1	164000-51048	DISPLAY ASSY, VC10-2	1	1						N
		(A=*2018.09)	(B=*2018.09)								
13-2	1	164000-51049	DISPLAY ASSY, VC10-2	1	1						N
		(A=E/#53378)	(B=E/#53418)								
13-3	1	164000-51070	DISPLAY ASSY, VC10-2	1	1						N
		(A=E/#54192)	(B=E/#54636)								
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)

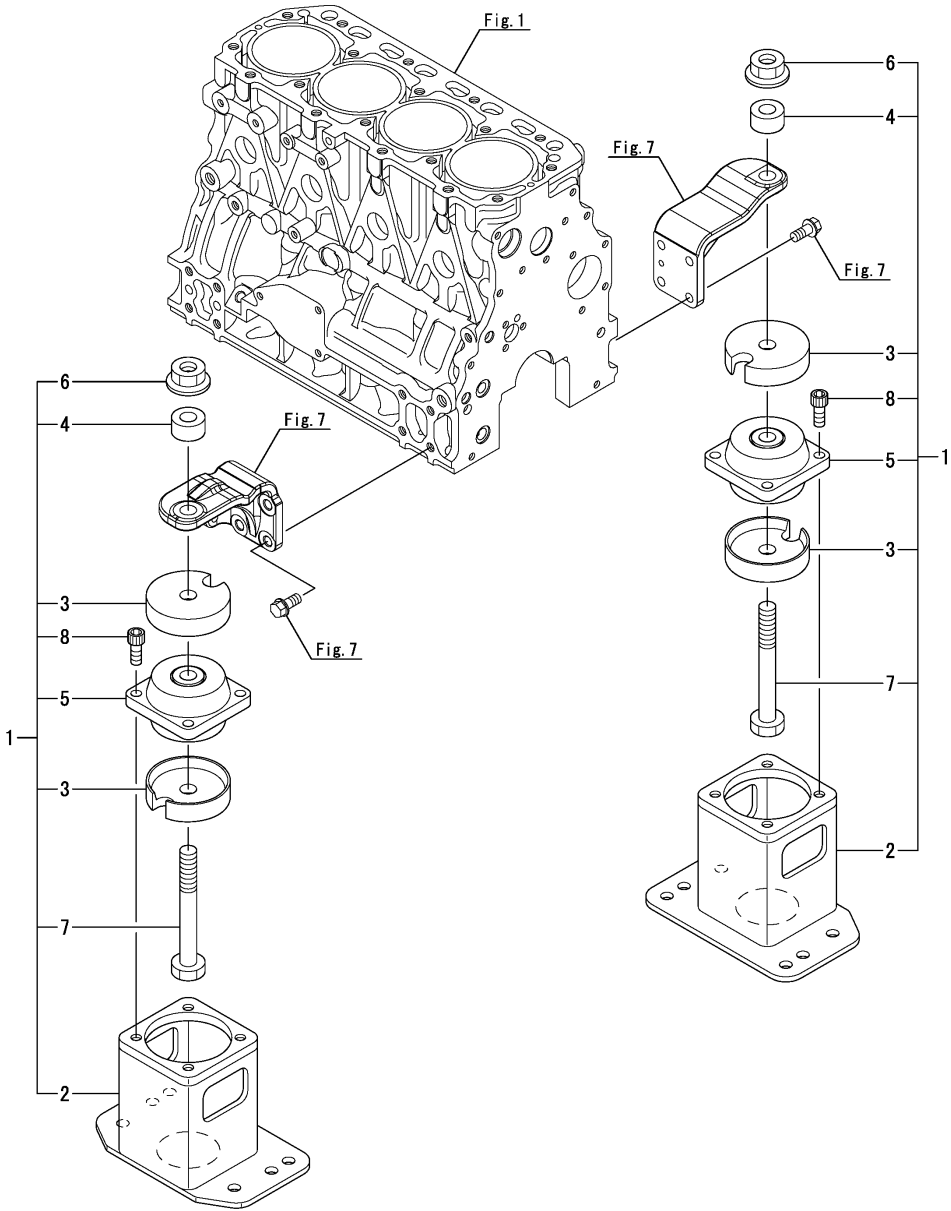
(D)=
(E)=
(F)=

[illegible]

(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.

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.60. FLEXIBLE MOUNT(FOR S2 DRIVE)



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

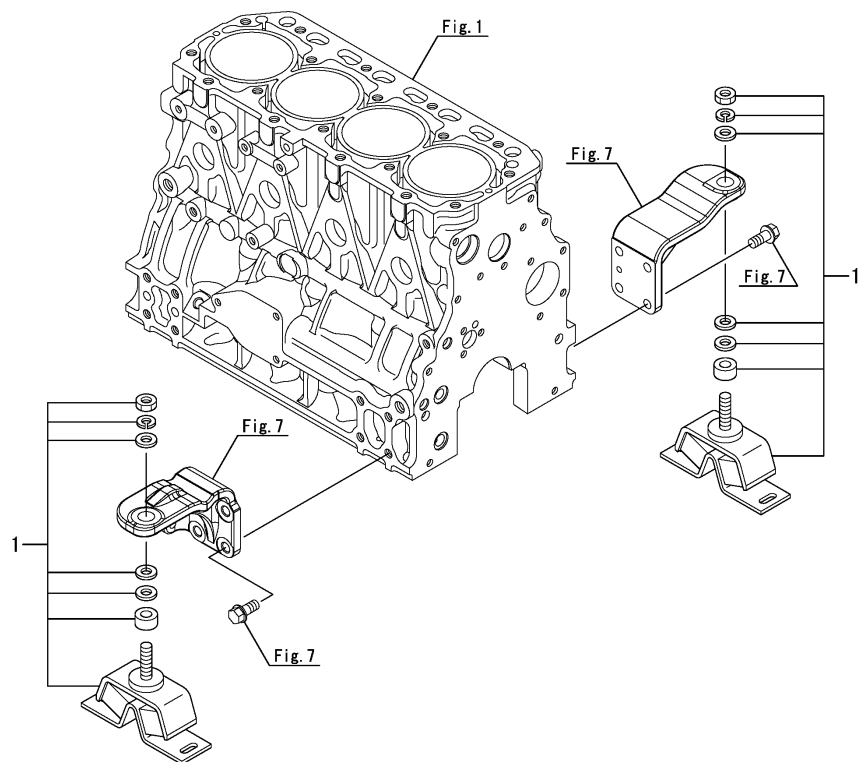
(D)=
(E)=
(F)=

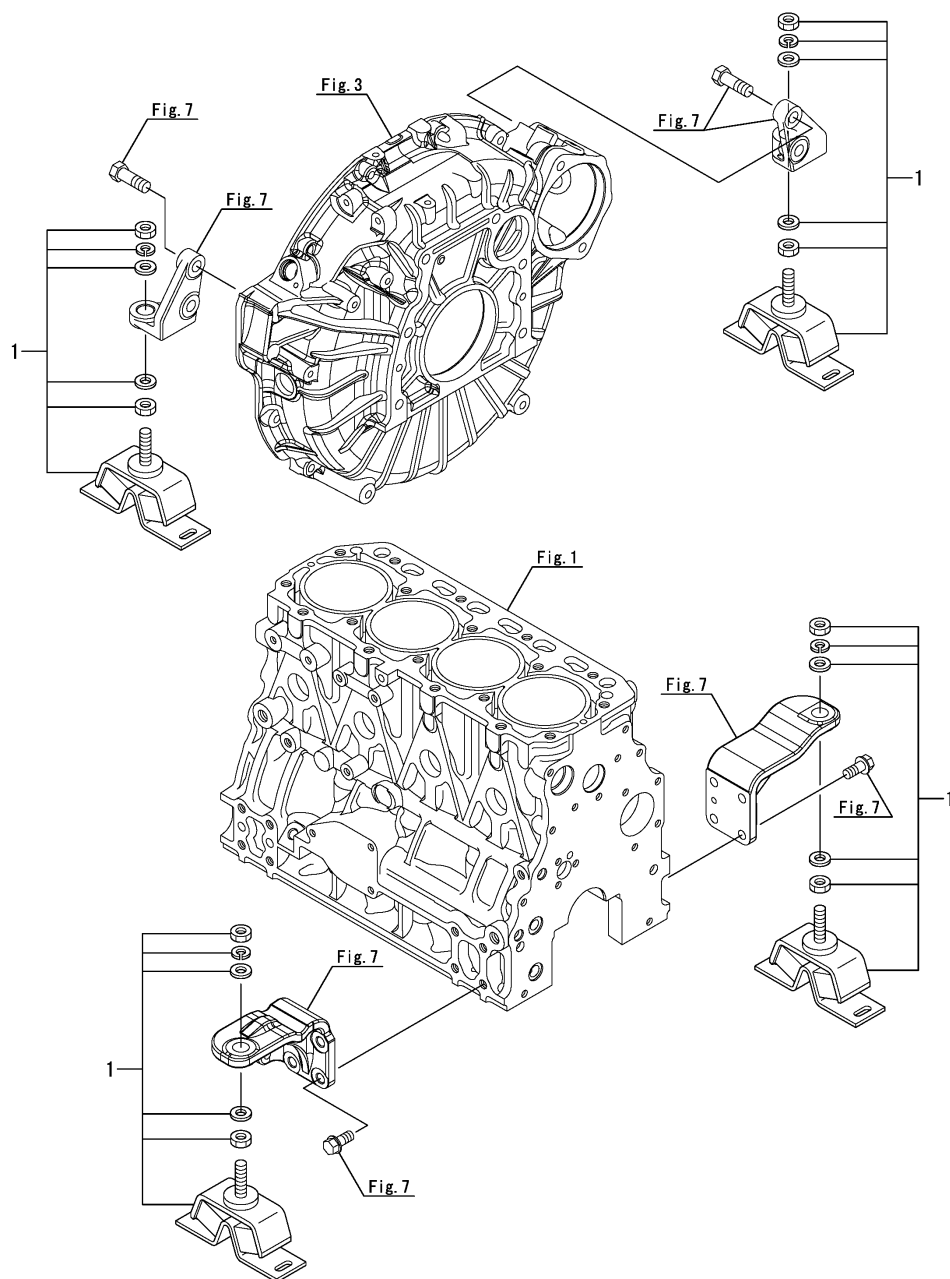
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129671-08220	MOUNT ASSY, ABSORBER	2							
2	2	129671-08230	SUPPORT, MOUNT	2							
3	2	129671-08240	PLATE, ABSORBER	4							
4	2	129671-08250	SPACER, ABSORBER	2							
5	2	129671-08260	RUBBER, MOUNT	2							
6	2	129671-08270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

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

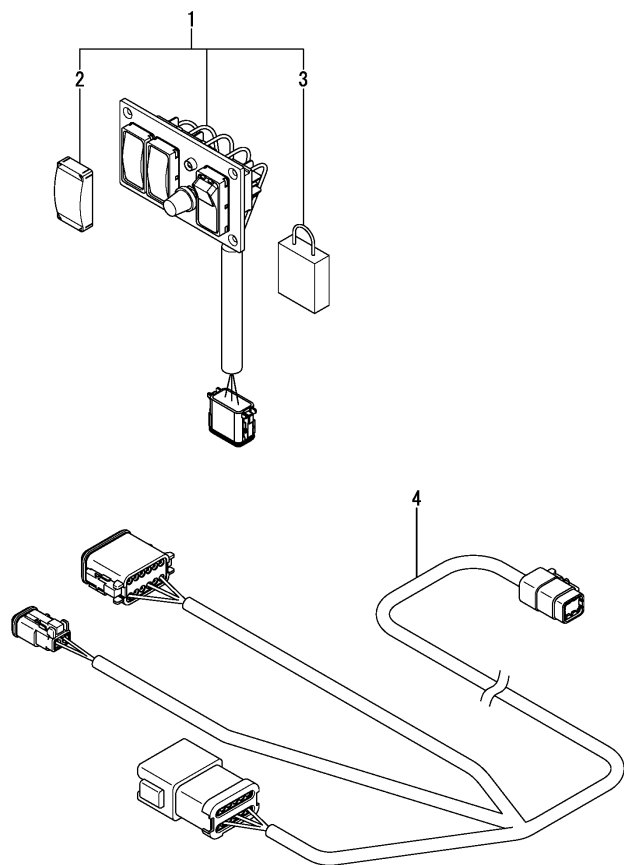


No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	129671-08390	MOUNT ASSY, FLEXIBLE	2						



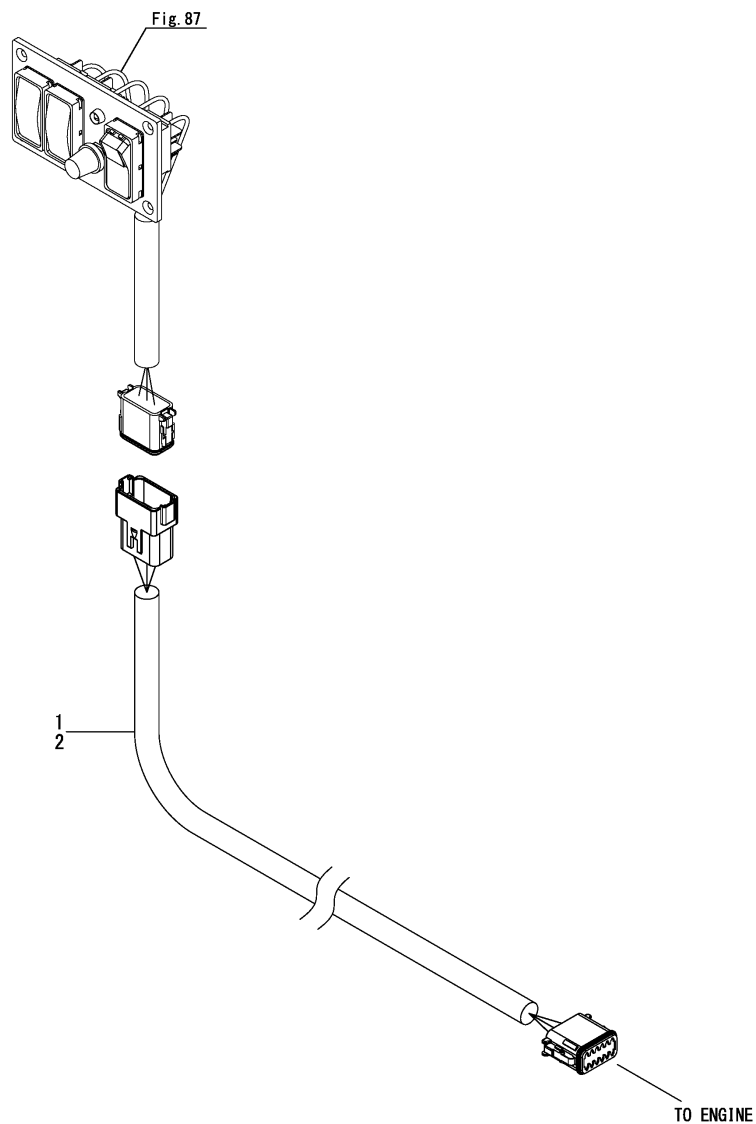


No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	120149-08441	MOUNT, FLEXIBLE 300	4						



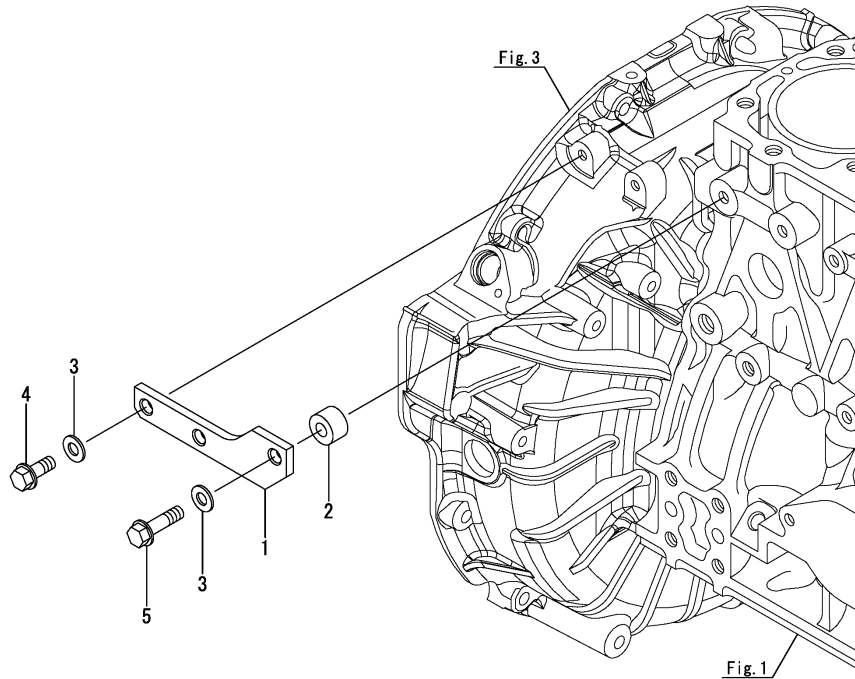
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	164000-30012	PANEL ASSY,BACK UP	1					
2	2	164000-29020	COVER, SWITCH	1					
3	2	164000-29050	JUMPER, STOP	1					
4	1	129676-77150	HARNASS, VMU	1					

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

[illegible]

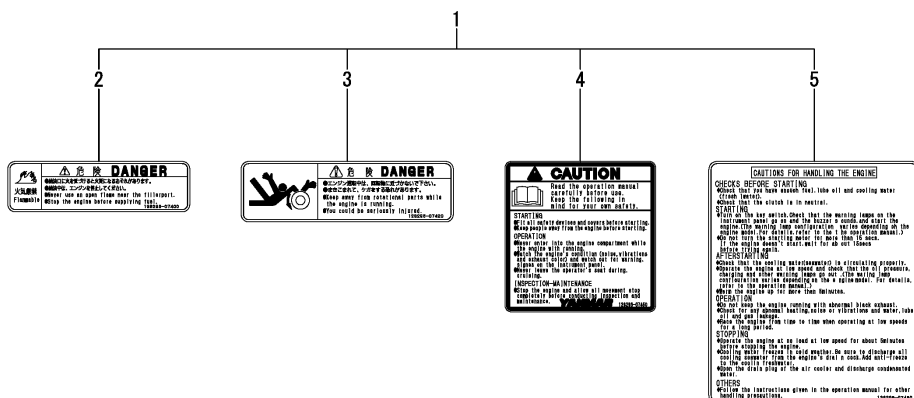
(A)=4JH80
(B)=4JH110
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	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)



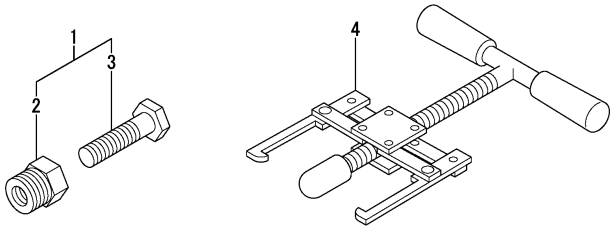
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128377-07190	LABEL,LOOSE PARTS	1	1						
1-1	1	128296-07190	LABEL, LOOSE PARTS	1	1						R
		(A=E50450)	(B=E50562)								
2	2	128377-07400	LABEL,DANGER	2	2						
2-1	2	128296-07400	LABEL, DANGER	2	2						R
		(A=E50450)	(B=E50562)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

Fig.59. (61A)TOOL

(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	129671-92110	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						

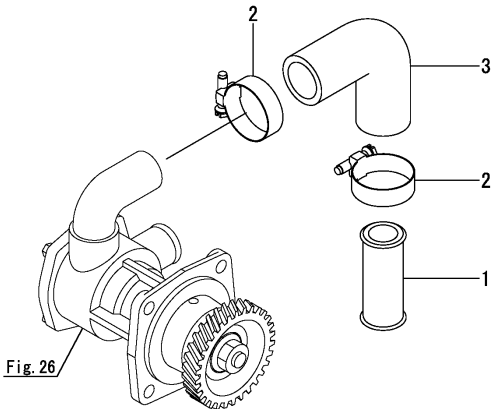
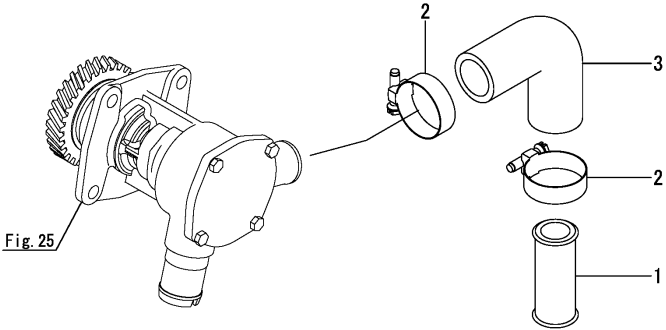


Fig.63. REMOTE CONTROL HEAD(OPTIONAL)

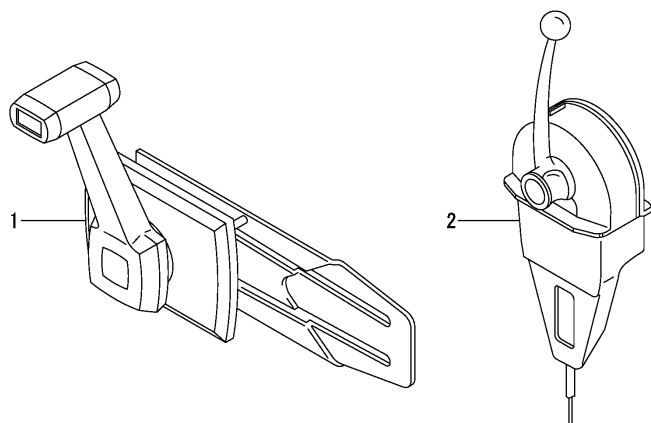
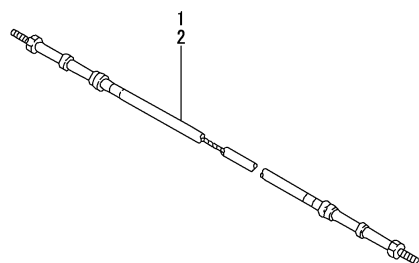
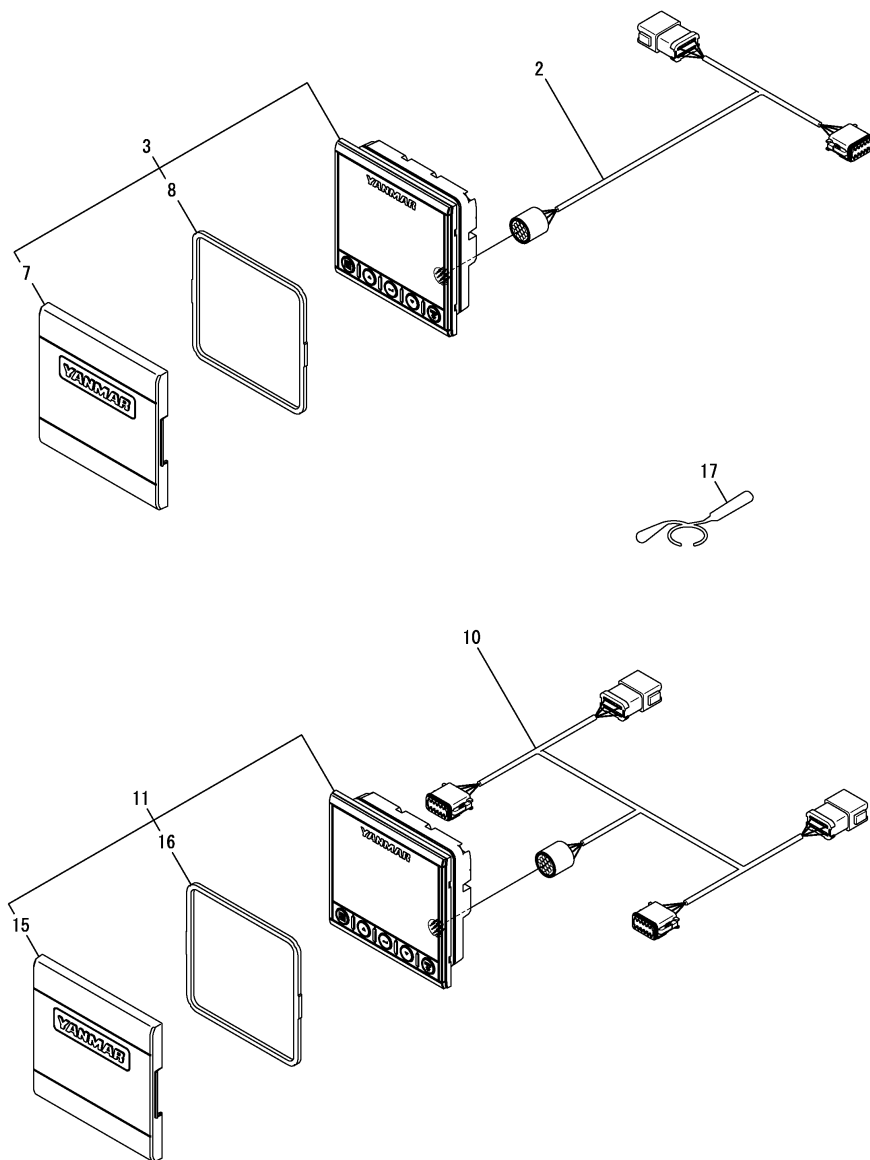
[illegible]

Fig.64. REMOTE CONTROL CABLE(OPTIONAL)

[illegible]

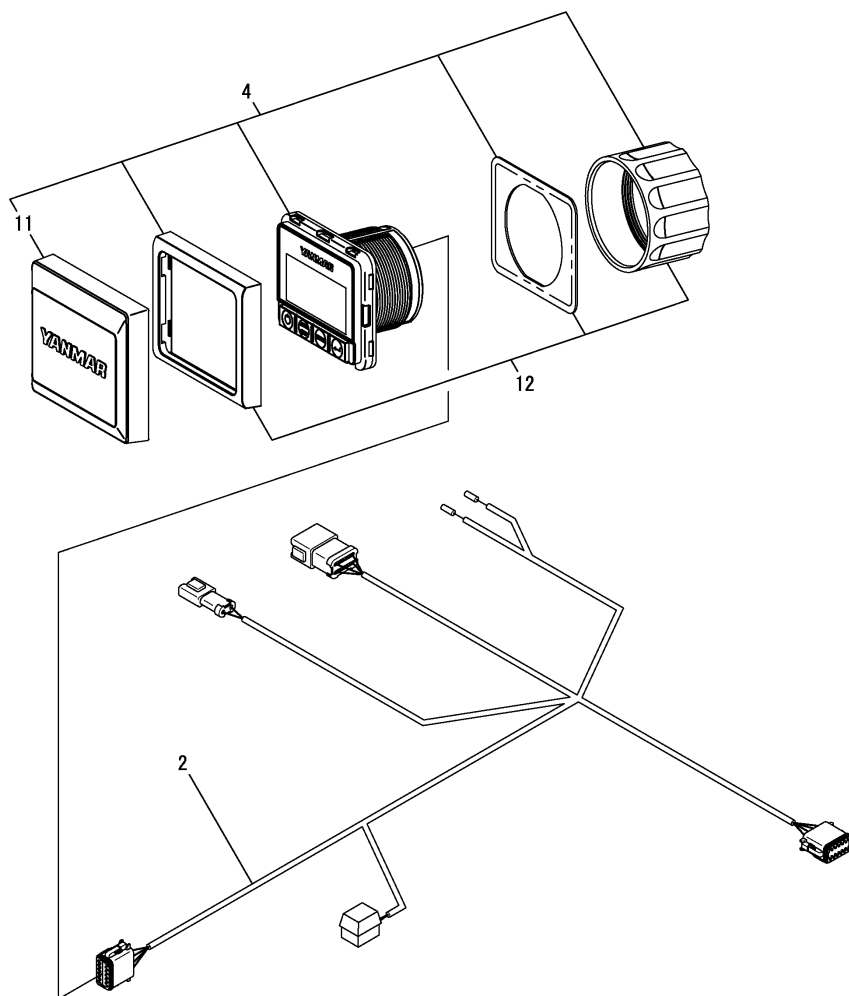
Remarks
(1)4m.
(2)7m.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	164100-21300	HARNESS,YD42 SINGLE	1	1						1
3	2	164100-51400	DISPLAY KIT,YD42	1	1						
7	3	164100-51420	COVER, FRONT	1	1						
8	3	164100-51430	BEZEL,YD42	1	1						
10	2	164100-21310	HARNESS,YD42 TWIN	1	1						2
11	2	164100-51400	DISPLAY KIT,YD42	1	1						
15	3	164100-51420	COVER, FRONT	1	1						
16	3	164100-51430	BEZEL,YD42	1	1						
17	1	164100-17000	DEVICE,FUEL DATA M	1	1						

(1)Single engine / twin engine PORT specification.
(2)Twin engine single display / twin engine STB specification.

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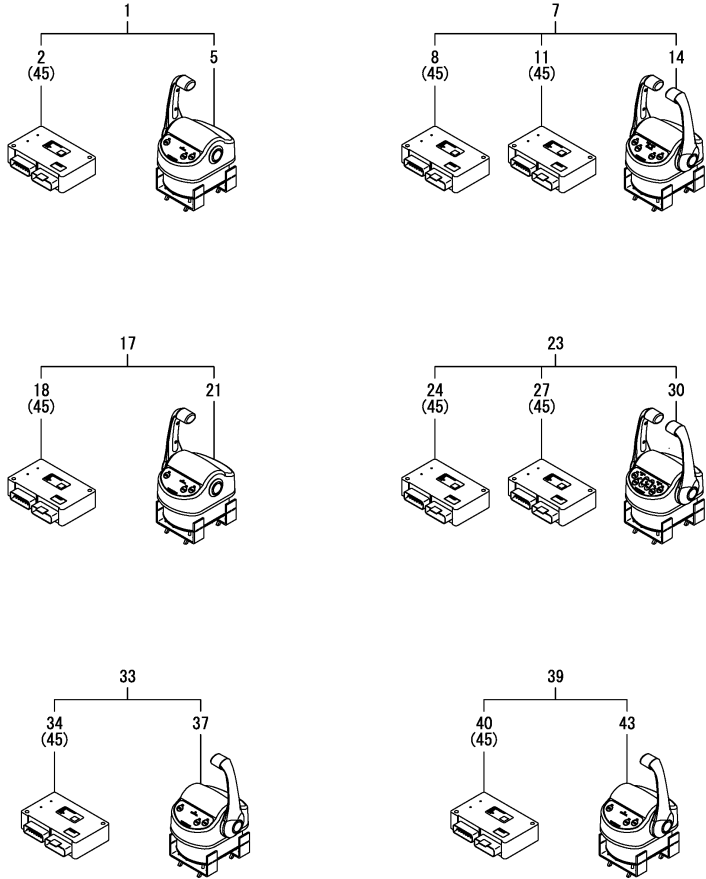


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
2	2	164100-21030	HARNESS,YD25	1	1						
4	2	164100-30000	PANEL ASSY,YD25	1	1						
11	3	164100-39040	COVER,YD25	1	1						
12	1	164100-30090	MOUNT KIT,YD25	1	1						

Fig.93. CONTROL HEAD KIT

(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	164000-40010	CONTROL HEAD KIT,IS	1	1					W	
		(A=E/#53378) (B=E/#53418)									
2	2	164000-10020	CONTROLLER ASSY	1	1						1
5	2	164000-41010	HEAD, CONTROL	1	1						
7	1	164000-40030	CONTROL HEAD KIT,IT	1	1					W	
		(A=E/#53378) (B=E/#53418)									
8	2	164000-10020	CONTROLLER ASSY	1	1						1
11	2	164000-10030	CONTROLLER ASSY	1	1						1
14	2	164000-41030	HEAD, CONTROL	1	1						
17	1	164000-40040	CONTROL HEAD KIT,DS	1	1					W	
		(A=E/#53378) (B=E/#53418)									
18	2	164000-10020	CONTROLLER ASSY	1	1						1
21	2	164000-41040	HEAD, CONTROL	1	1						
23	1	164000-40050	CONTROL HEAD KIT,DT	1	1					W	
		(A=E/#53378) (B=E/#53418)									
24	2	164000-10020	CONTROLLER ASSY	1	1						1
27	2	164000-10030	CONTROLLER ASSY	1	1						1
30	2	164000-41050	HEAD, CONTROL	1	1						
33	1	164000-40080	CONTROL HEAD KIT,IR	1	1					W	
		(A=E/#53378) (B=E/#53418)									
34	2	164000-10020	CONTROLLER ASSY	1	1						1
37	2	164000-41080	CONTROL HEAD,I S T R	1	1						
39	1	164000-40090	CONTROL HEAD KIT,DR	1	1					W	
		(A=E/#53378) (B=E/#53418)									
40	2	164000-10020	CONTROLLER ASSY	1	1						1
43	2	164000-41090	CONTROL HEAD,SD S RU	1	1						
45	1	164000-10210	CONTROLLER ASSY	1	1						2

Remarks
(1)Eco Controller.
This part cannot be ordered.
Replace the part with a Service Controller with the proper information installed.
(2)Service Controller.
If the proper information is not installed, it will not operate.
To install proper information, go to an authorized distributor.

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Parts No.	Fig. No.	Ref. No.
101304-59020	42	12
105311-67200	57	1
105425-01690	4	2
105430-67110	12	7
119172-55800	42	3
119172-55801	42	3 -1
119172-55810	42	10
119172-55811	42	10 -1
119175-91050	44	26
119175-91510	90	23
119187-39700	41	2
119578-75610	49	2
119578-77080	46	9
119578-77200	46	10
119578-77680	90	24
119578-91300	49	24
119578-91351	69	13
	90	25
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
119778-26660	90	16
119802-11260	10	3
119802-11270	10	4
119802-13590	2	26
119802-25071	16	29
119802-49730	43	5
119807-11770	48	7
	70	7
119934-01800	2	21
120130-11860	10	39
120149-08441	86	1
120270-54410	10	32
120650-07060	6	1
120650-42350	27	19
	28	19
120650-42380	27	18
	28	18
120650-42420	27	16
	28	16
120662-77530	90	21
121111-21501	20	11
121252-39450	22	43
121400-11340	10	26
121450-01560	2	2

Parts No.	Fig. No.	Ref. No.
121450-01560	25	1
121550-23200	21	16
121574-86320	57	7
	73	27
121575-49310	22	48
	48	8
	70	8
121850-03050	90	4
121850-21680	20	10
121857-55630	42	4
121857-55710	42	8
121857-55730	42	7
121857-55740	42	9
121857-55750	42	5
121857-55760	42	6
122780-59100	40	9
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
	90	17
124413-39710	23	6
124460-11340	10	27
124550-21600	20	15
124976-34850	1	40
126630-91601	69	14
127605-11370	11	10
127610-39350	41	3
127677-33060	30	4
127677-33070	30	5
127677-77060	46	8
127677-77330	49	9
127687-39360	41	4
128170-86501	63	1
128296-07190	61	1 -1
128296-07400	61	2 -1
128296-07420	61	3 -1
128296-07450	61	4 -1
128296-07460	61	5 -1

Parts No.	Fig. No.	Ref. No.
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	11
	70	12
128990-07270	6	6
128990-07900	6	3
128990-34900	6	8
128990-49320	38	5
128990-49400	38	4
128990-59900	42	16
128990-77250	47	1
	48	1
	71	1
128990-77430	46	2
		11
128990-77441	8	4
	9	3
		16
	44	22
128990-77510	8	9
	9	9
		20
128990-77600	8	5
	9	4
		17
	44	23
		45
128990-77610	46	4
		13
128990-77700	71	2
		9
	72	4
		11
128990-77730	71	3
		10
	72	5
		12
128990-77770	71	4
128990-77780	71	5
	72	6
129001-01250	1	5
129001-02931	1	31
129004-11650	10	6

Parts No.	Fig. No.	Ref. No.
129005-11100	10	22
129006-44480	22	28
129051-49310	29	5 A
	38	1
		1 -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
129150-11230	10	7
129150-11280	10	5
129150-11370	10	11
129150-11750	10	9
129150-11810	10	40
129150-14200	16	1
129150-14400	16	2
129150-23601	21	17
129150-23611	21	19
129150-35042	22	15
129150-35111	22	25
129150-35153	22	27
129150-35170	22	27 -1
129150-49811	29	13
129150-77511	19	15
129171-49900	62	3
129189-21200	20	5
129263-49350	29	4
129270-44501	30	27
129271-42350	29	17
129271-42351	29	17 -1
129271-42502	25	6
	27	1
129271-42510	27	12
	28	12
129271-42700	27	20
129271-49110	37	1
129271-77251	48	10
	70	10
129271-77641	47	3
	48	15

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Parts No.	Fig. No.	Ref. No.
129301-34830	23	10
129410-03990	5	2 -1
129470-01710	4	7
129470-12301	13	1
129470-12320	13	3
129470-12330	13	4
129470-49540	29	10
129470-49801	29	12
129470-86500	64	2
129472-13501	15	1
129472-13520	14	1
	15	6
129472-13550	15	7
129472-13560	15	3
		8
129472-18090	17	25
129472-39620	23	12
129473-35091	22	16
129474-18151	19	14
129474-18181	19	5
129486-32020	22	13
129486-42050	29	6
129490-49070	62	1
129550-13110	30	1
129553-39650	23	25
129570-34880	24	8
129573-18120	19	1
129573-22301	21	9
129595-18132	19	2
129601-11241	10	1
129601-11251	10	2
129608-77010	45	1
129608-77110	45	4
129648-35100	22	22
129648-35150	22	24
129670-07230	30	3
129670-08220	7	4
129670-08351	84	1
129670-13600	17	24
	30	21
129670-34810	24	7
129670-39600	22	44
129670-42513	26	3
	28	1
129670-42520	27	2
	28	2
129670-42531	27	3
	28	3
129670-42540	27	4
	28	4

Parts No.	Fig. No.	Ref. No.
129670-42550	27	5
	28	5
129670-42560	27	6
	28	6
129670-42570	27	7
	28	7
129670-42580	27	8
	28	8
129670-42590	27	21
	28	21
129670-42600	27	28
	28	28
129670-42610	27	37
	28	37
129670-42700	28	20
129670-44570	30	29
129670-49390	38	3
129670-49410	34	3
129670-49500	25	8
	26	5
	31	2
	32	2
	33	4
	34	4
	35	5
	36	3
	37	4
	62	2
	68	3
129670-55700	41	20
129670-67110	73	26
129670-81850	52	11
129671-01960	89	2
129671-08150	7	1
129671-08160	7	2
129671-08211	7	3
129671-08220	60	1
129671-08230	60	2
129671-08240	60	3
129671-08250	60	4
129671-08260	60	5
129671-08270	60	6
129671-08280	60	7
129671-08290	60	8
129671-08390	85	1
129671-13570	14	3
	15	5 -1
129671-18001	17	1
129671-18150	19	4
129671-49120	33	1

Parts No.	Fig. No.	Ref. No.
129671-49120	35	1
129671-49220	37	2
129671-49230	34	5
129671-49240	34	6
129671-92100	59	4
129671-92110	59	1
129671-92120	59	2
129671-92130	59	3
129672-18110	18	1
129672-18130	18	3
129672-18140	18	4
129672-18150	18	5
129672-18160	18	6
129672-18170	18	7
129672-18180	18	8
129672-18190	18	9
129672-44160	30	10
129672-44170	30	11
129672-49030	34	1 -1
129672-49050	49	19
	69	1
129672-49060	26	4
129672-49070	34	1
129672-49260	37	3
129672-81000	51	1
129672-81010	51	2
129672-81020	51	3
129673-01700	4	1
129673-13552	14	2
129673-18140	19	3
129673-22501	21	3
129673-44090	30	8
129673-44110	30	6 A
129673-44131	30	9
129673-44150	30	6 B
129673-49060	15	10
129673-49410	35	4
	68	2
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129673-81020	51	5
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129677-01550	2	19
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26716-050002	48	26
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26776-180002	16	21
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27241-120000	1	16
27241-300000	1	11
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27310-080001	10	28
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