

OCF50-M00080EN

Introduction

1.This parts catalog is a first edition of the 4JH45,4JH57 Diesel engine.

	Date of issue	Remarks
First edition	July, 2014	

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

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

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

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

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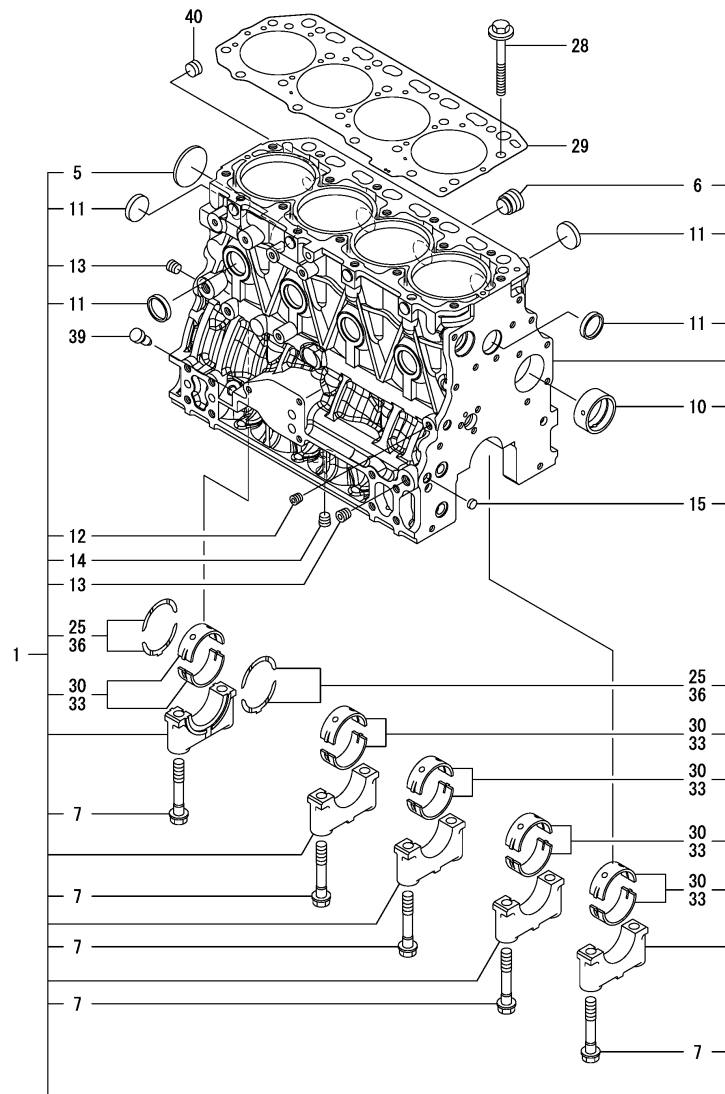
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Fig. No. Fig. Name

Fig.1. CYLINDER BLOCK

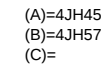


No.	Lev.	Parts No.	Description	(A)=4JH45 (B)=4JH57 (C)=		(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	129C00-01560	BLOCK ASSY, CYLINDER	1	1					
5	3	129001-01250	PLUG, 50	1	1					
6	3	171051-01921	PLUG, NPTF1	1	1					
7	3	129150-02020	BOLT, METAL CAP	10	10					
10	3	129795-02412	BUSH, CAMSHAFT	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	27241-120000	PLUG, 12	1	1					
25	2	129150-02931	BEARING, THRUST	2	2					
28	1	129150-01200	BOLT, HEAD	18	18					
29	1	129685-01350	GASKET, HEAD	1	1					
30	1	129001-02931	BEARING, MAIN	5	5					1
33	1	129150-02871	BEARING, 0.25 US	5	5					2
36	1	129150-02941	BEARING, THRUST 0.25	1	1					3
39	1	124976-34850	CAP	1	1					
40	1	23875-030000	PLUG, R03	1	1					

Remarks

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

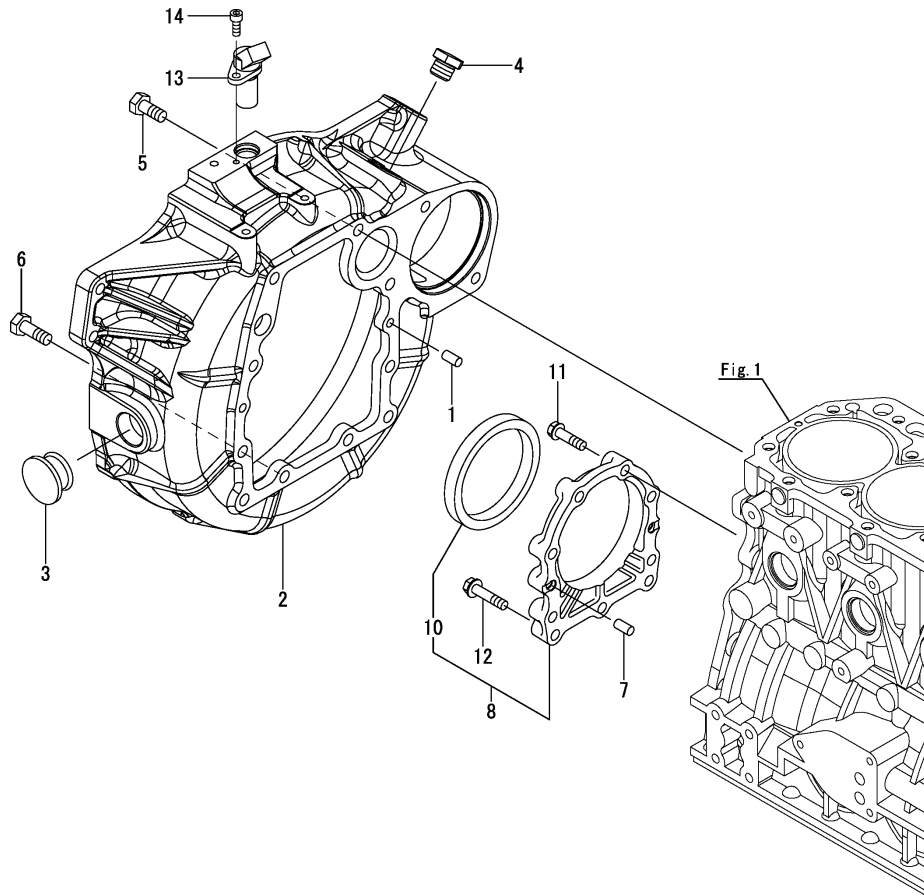
Fig.2. GEAR HOUSING



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

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

Fig.3. FLYWHEEL HOUSING

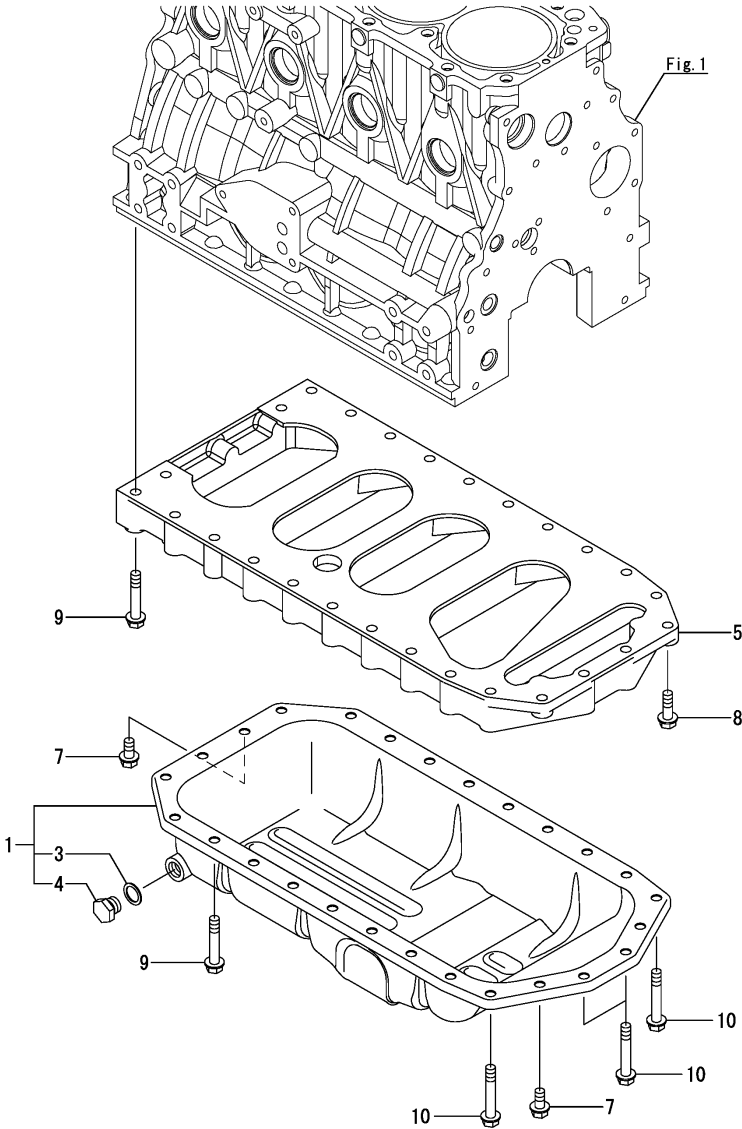


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				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, 8X16	2	2						
2	1	129675-01620	HOUSING, FLYWHEEL	1	1						
3	1	119620-01750	CAP	1	1						
4	1	23887-180002	PLUG, 18	1	1						
5	1	26206-100252	BOLT, M10X 25 PLATED	6	6						
6	1	26206-100302	BOLT, M10X 30 PLATED	4	4						
7	1	129100-01580	PIN, 8X16	2	2						
8	1	129100-01640	CASE ASSY, OIL SEAL	1	1						
10	2	129795-01780	SEAL, OIL	1	1						
11	1	129486-01670	BOLT, M8X30	6	6						
12	1	26106-080352	BOLT, M8X 35 PLATED	3	3						
13	1	129A00-21710	SENSOR, FLYWHEEL REV	1	1						
14	1	26450-060162	BOLT, M6X 16	1	1						

Fig.4. LUB. OIL SUMP

(A)=4JH45
(B)=4JH57
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129670-01700	SUMP, OIL	1	1						
3	2	23414-140000	GASKET, 14X1.0	1	1						
4	2	23887-140002	PLUG M14	1	1						
5	1	129400-01730	SPACER, OIL SUMP	1	1						
7	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
8	1	26106-080252	BOLT, M8X 25 PLATED	2	2						
9	1	26106-080452	BOLT, M8X 45 PLATED	20	20						
10	1	26106-080502	BOLT, M8X 50 PLATED	4	4						

(A)=4JH45
(B)=4JH57
(C)=

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

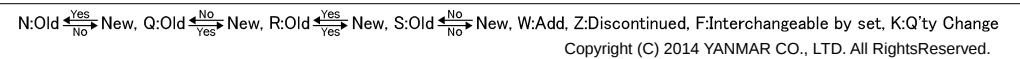
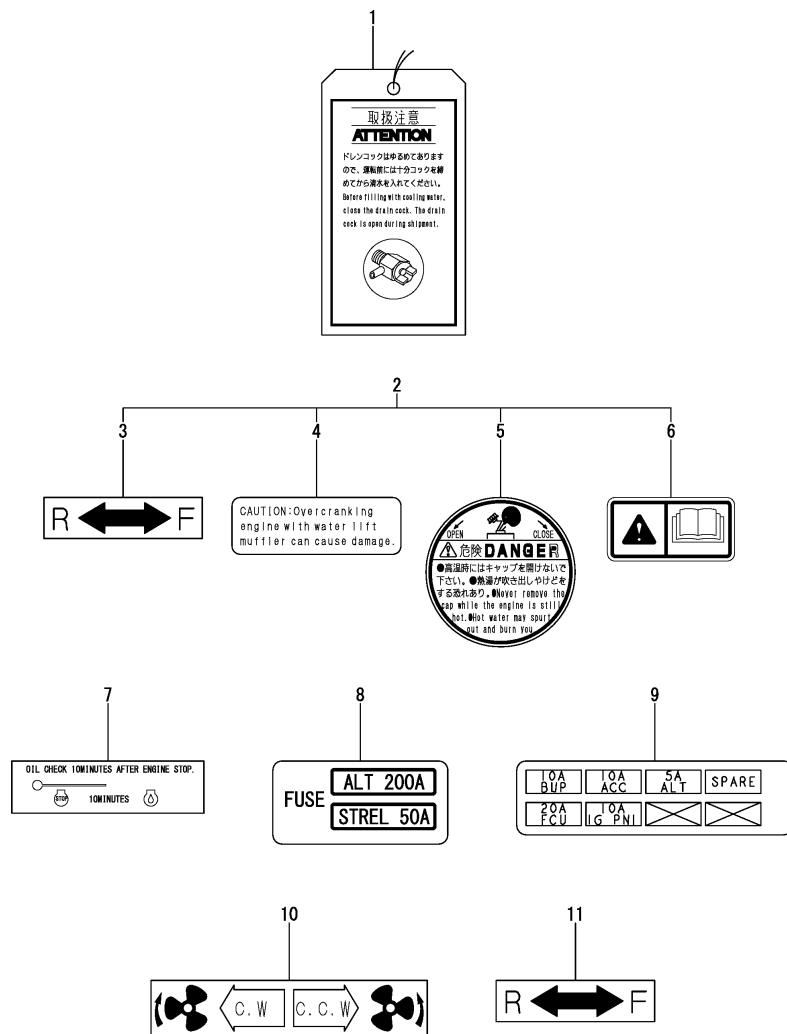
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Fig.6. LABEL



(2) For KM35A2, KM35P (Optional parts.)

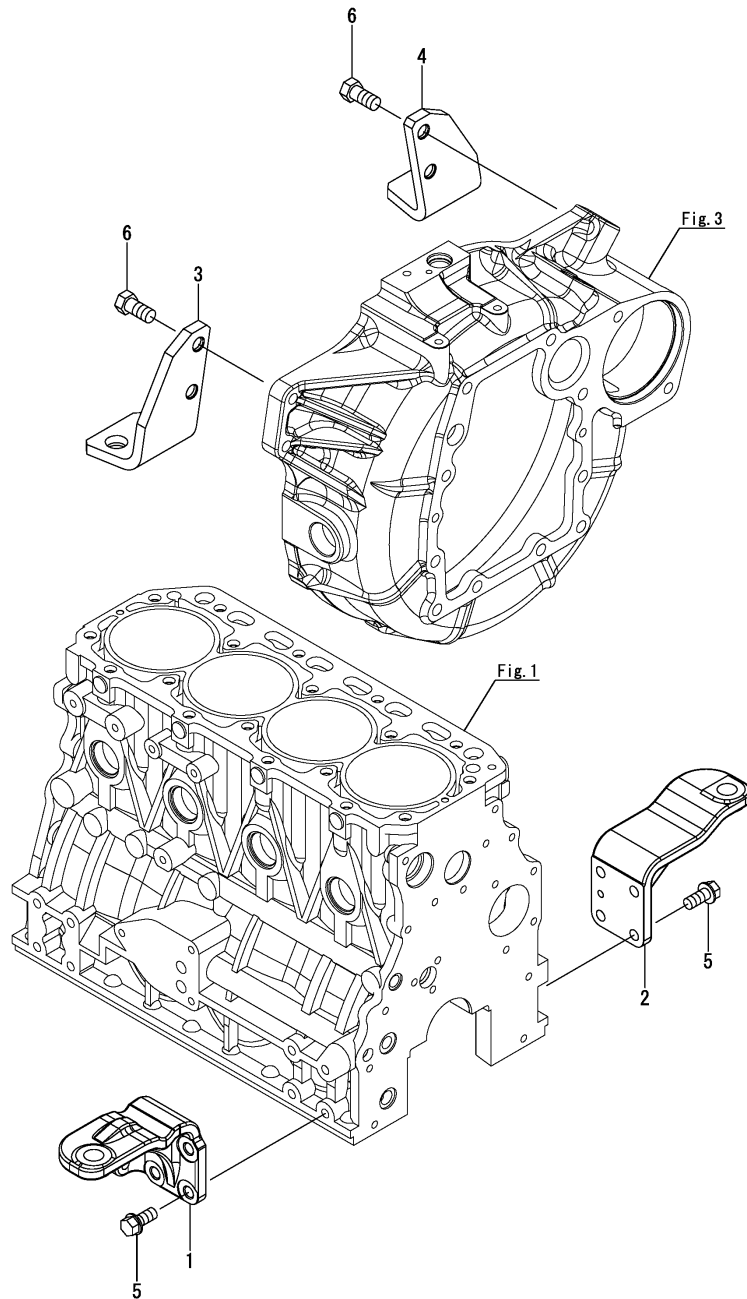
(C)=

$$(F)=$$

Q'ty

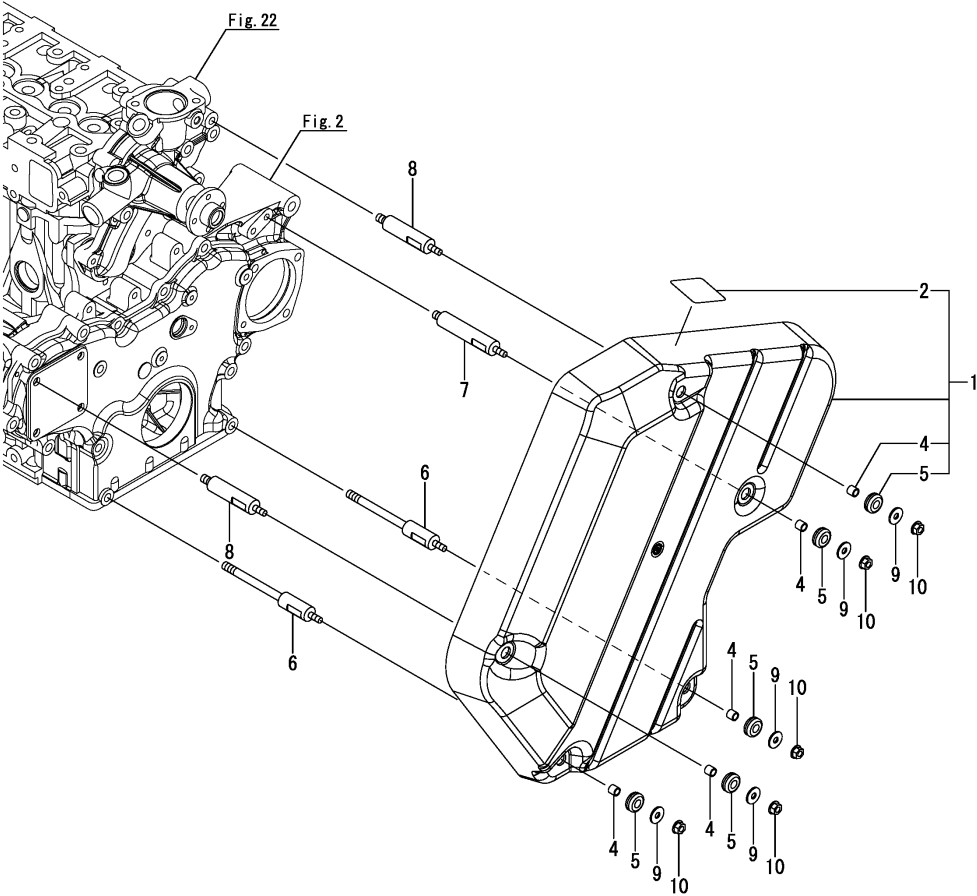
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123682-07852	LABEL, CAUTION	1	1						
2	1	128990-07900	LABEL ASSY,CAUTION	1	1						
3	2	177088-02430	LABEL	1	1						
4	2	128377-07150	LABEL, CAUTION	1	1						
5	2	128990-07270	LABEL, PRESSURE CAP	1	1						
6	2	196630-12980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

Fig.7. MOUNTING FOOT



				(A)=4JH45 (B)=4JH57 (C)=			(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description			Q'ty		I R					
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	129671-08211	FOOT, MOUNTING F-INT	1	1								
2	1	129670-08220	FOOT	1	1								
3	1	129670-08231	FOOT	1	1								
4	1	129670-08241	FOOT	1	1								
5	1	26106-100222	BOLT, M10X 22 PLATED	8	8								
6	1	26116-120252	BOLT, M12X 25 PLATED	4	4								

Fig.8. BELT COVER



(A)=4JH45
(B)=4JH57
(C)=

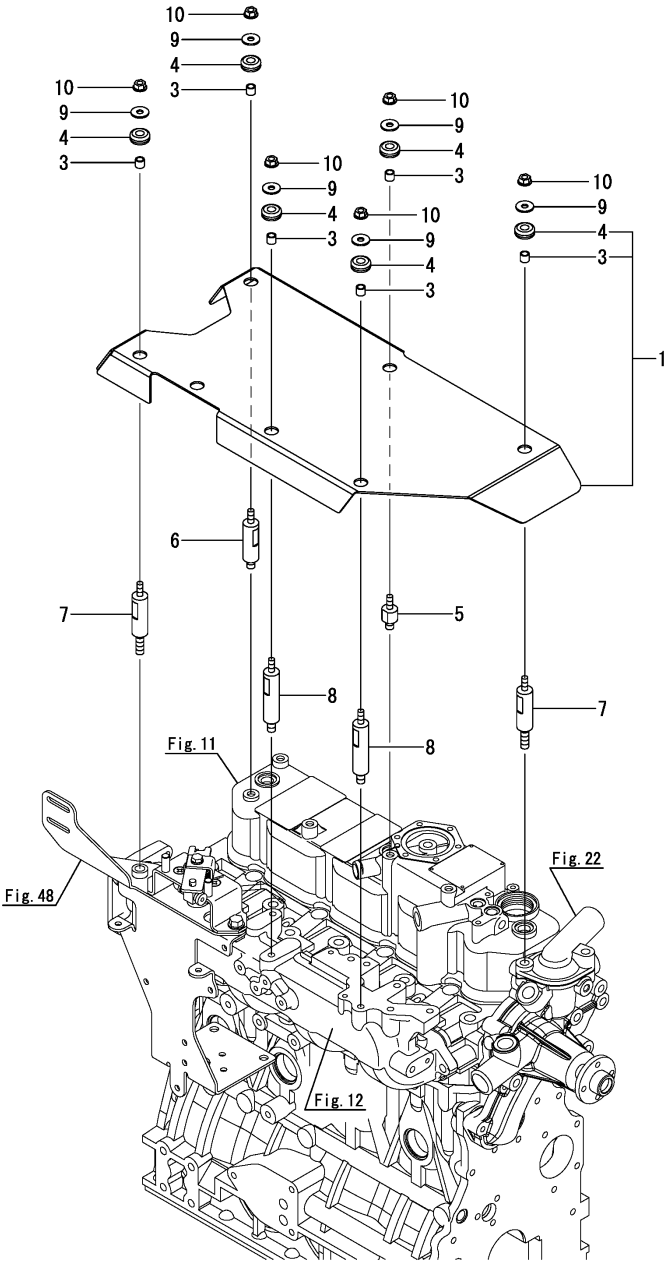
(D)=
(E)=
(F)=

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

Fig.9. ENGINE COVER

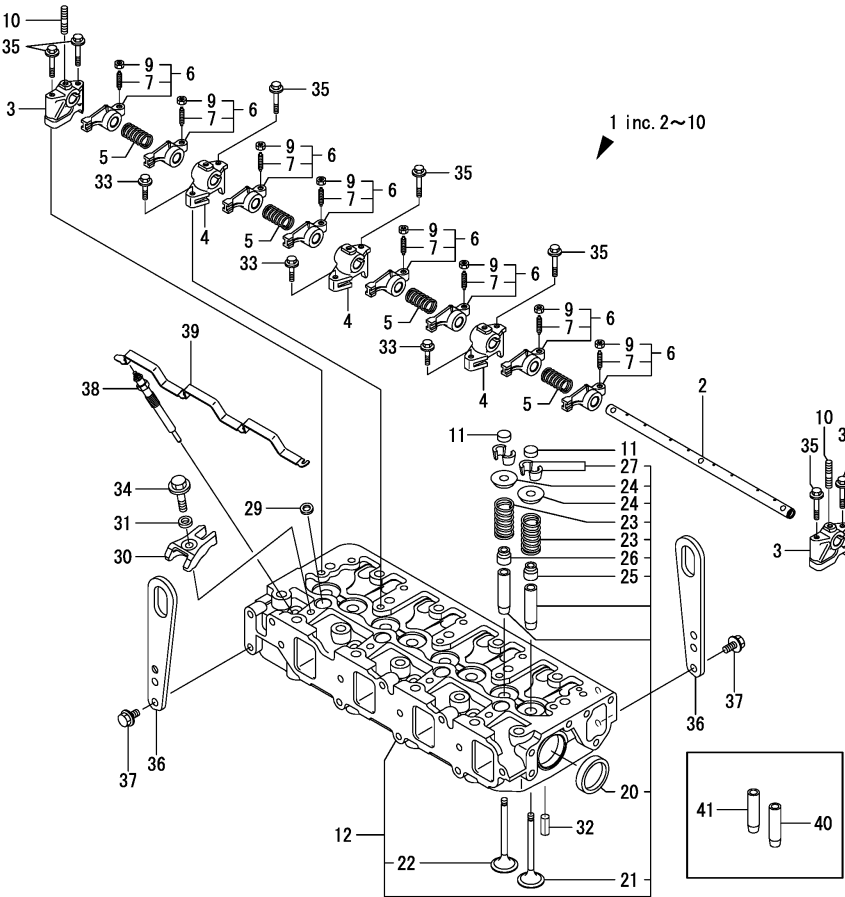
(A)=4JH45
(B)=4JH57
(C)=

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



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

Fig.10. CYLINDER HEAD



(A)=4JH45
(B)=4JH57
(C)=

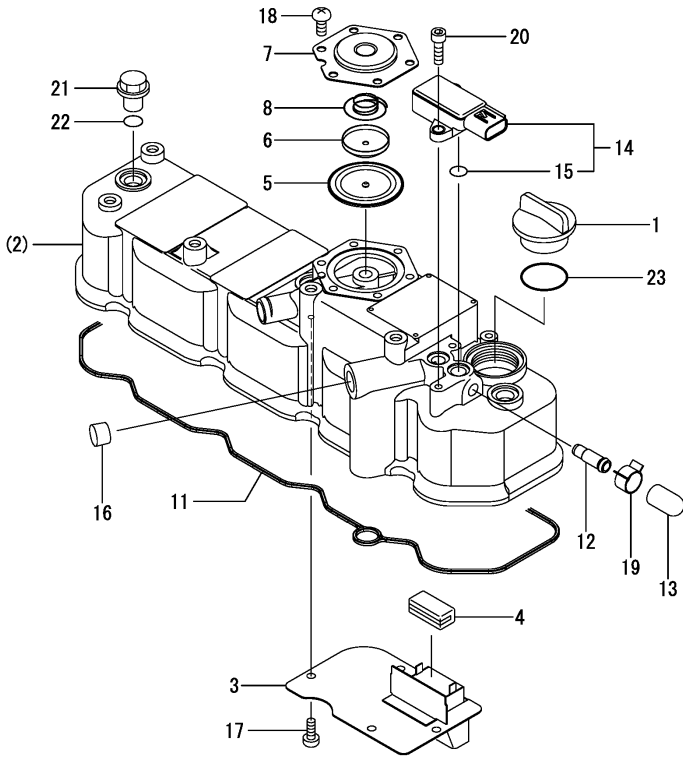
(D)=
(E)=
(F)=

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	4	4						
6	2	129004-11650	ARM, ROCKER	8	8						
7	3	129150-11230	SCREW, VALVE ADJUST	8	8						
9	3	129150-11750	NUT, M8	8	8						
10	2	26226-080182	STUD, M8X 18	3	3						
11	1	129150-11370	CAP, VALVE	8	8						
12	1	129675-11700	HEAD ASSY, CYLINDER	1	1						
20	3	27241-400000	PLUG, 40	2	2						
21	2	129005-11100	VALVE, INTAKE	4	4						
22	2	129100-11112	VALVE, EXHAUST	4	4						
23	2	129795-11120	SPRING, VALVE	8	8						
24	2	129795-11180	RETAINER, SPRING	8	8						
25	2	121400-11340	SEAL, VALVE STEM	4	4						
26	2	124460-11340	SEAL, VALVE STEM	4	4						
27	2	27310-080001	COTTER, 8	8	8						
29	1	129978-11871	GASKET,INJECTOR	4	4						
30	1	129A00-11900	RETAINER, INJECTOR	4	4						
31	1	120270-54410	WASHER, INJECTOR	4	4						
32	1	22351-060012	PIN, SPRING 6.0X12	2	2						
33	1	26106-080252	BOLT, M8X 25 PLATED	3	3						
34	1	26106-080352	BOLT, M8X 35 PLATED	4	4						
35	1	26106-080502	BOLT, M8X 50 PLATED	7	7						
36	1	129900-07900	LIFTER	2	2						
37	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
38	1	129008-77800	PLUG, GLOW	4	4						
39	1	129C00-77820	CONNECTOR, GLOW PLUG	1	1						
40	1	120130-11860	GUIDE, VALVE	4	4						1
41	1	129150-11810	GUIDE, VALVE	4	4						1

Remarks
(1)Spare parts.

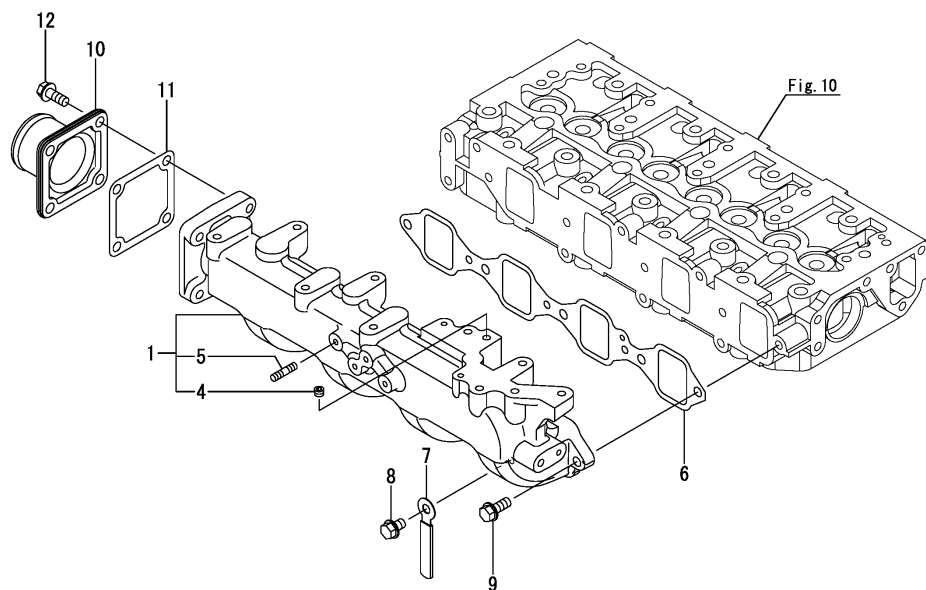
Fig.11. BONNET

2 inc. (2) ~20



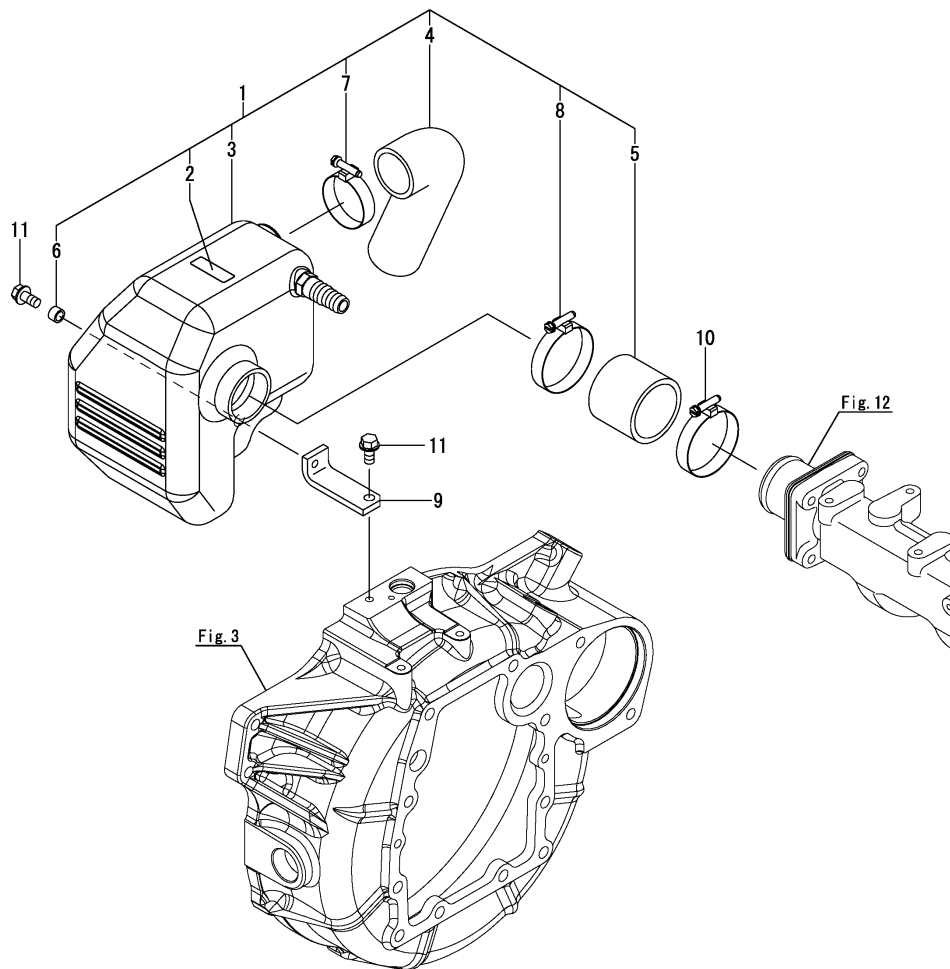
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-01751	COVER, FILLER	1	1						
2	1	129675-11350	BONNET ASSY	1	1						
3	2	129004-03010	PLATE	1	1						
4	2	129150-03070	BAFFLE, BREATHER	1	1						
5	2	123907-03100	DIAPHRAGM	1	1						
6	2	123907-03110	PLATE	1	1						
7	2	123907-03120	PLATE, BREATHER	1	1						
8	2	123907-03140	SPRING, DIAPHRAGM	1	1						
11	2	129C00-11310	GASKET, COVER	1	1						
12	2	129A00-11330	JOINT	1	1						
13	2	127605-11370	CAP	1	1						
14	2	129A00-12703	SENSOR,PRESSURE	1	1						
15	3	129A00-12780	O-RING,PRES SENSOR	2	2						
16	2	119640-61400	PLUG	1	1						
17	2	22857-500100	SCREW, 5X10	4	4						
18	2	22857-500100	SCREW, 5X10	6	6						
19	2	23080-012000	CLAMP, 12	1	1						
20	2	26450-060162	BOLT, M6X 16	2	2						
21	1	124160-11360	KNOB	3	3						
22	1	24311-000120	O-RING, 1AP12.0	3	3						
23	1	24311-000320	O-RING, 1AP32.0	1	1						

Fig.12. INTAKE MANIFOLD



				(A)=4JH45 (B)=4JH57 (C)=					(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C) (D) (E) (F)				I	R		
1	1	129677-12101	MANIFOLD ASSY,INTAKE	1	1								
4	2	23876-005000	PLUG, R005	1	1								
5	2	26216-060202	STUD, M6X 20	4	4								
6	1	129677-12130	GASKET,INT. MANIFOLD	1	1								
7	1	105430-67110	CLAMP, CORD	1	1								
8	1	26106-080122	BOLT, M8X 12 PLATED	1	1								
9	1	26106-080202	BOLT, M8X 20 PLATED	5	5								
10	1	129486-12581	JOINT, MANIFOLD	1	1								
11	1	129150-77511	GASKET	1	1								
12	1	26106-080202	BOLT, M8X 20 PLATED	4	4								

Fig.13. INTAKE SILENCER



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129670-12290	SILENCER CMP	1	1				
2	2	128377-07150	LABEL, CAUTION	1	1				
3	2	129271-12311	SILENCER	1	1				
4	2	129670-12360	PIPE, SILENCER	1	1				
5	2	129271-12810	PIPE,SUC AIR	1	1				
6	2	128990-77430	COLLAR	1	1				
7	2	23000-048000	CLAMP, 48	1	1				
8	2	23000-060000	CLAMP, 60	1	1				
9	1	129670-12411	BRACKET, SILENCER	1	1				
10	1	23000-060000	CLAMP, 60	1	1				
11	1	26106-080162	BOLT, M8X 16 PLATED	2	2				

Fig.14. MIXING ELBOW(STANDARD TYPE)

(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129670-13561	ELBOW	1	1						
2	1	129472-18090	GASKET	1	1						
3	1	129670-49150	PIPE, WATER	1	1						
4	1	129670-49500	CLIP, HOSE 38	2	2						
5	1	26703-080002	NUT, M8	4	4						

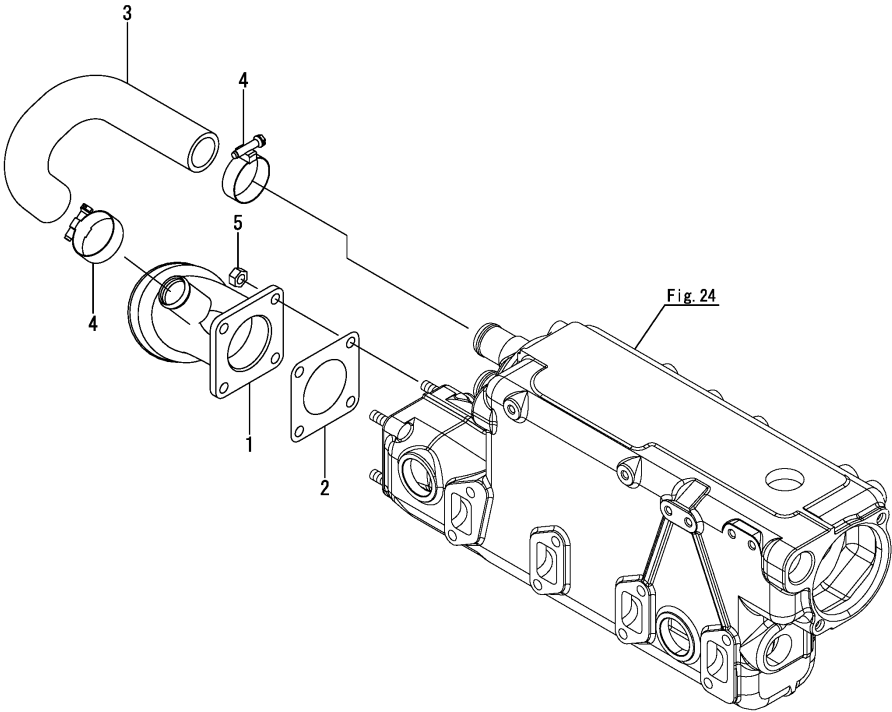


Fig.15. MIXING ELBOW(U TYPE)

(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-13541	ELBOW	1	1						
2	1	129472-13560	PLUG, PT3/4	1	1						
3	1	129472-18090	GASKET	1	1						
4	1	129670-49280	PIPE, WATER	1	1						
5	1	123325-49421	JOINT, PIPE	1	1						
6	1	129670-49500	CLIP, HOSE 38	2	2						
7	1	22137-080000	WASHER, 8	4	4						
8	1	26703-080002	NUT, M8	4	4						

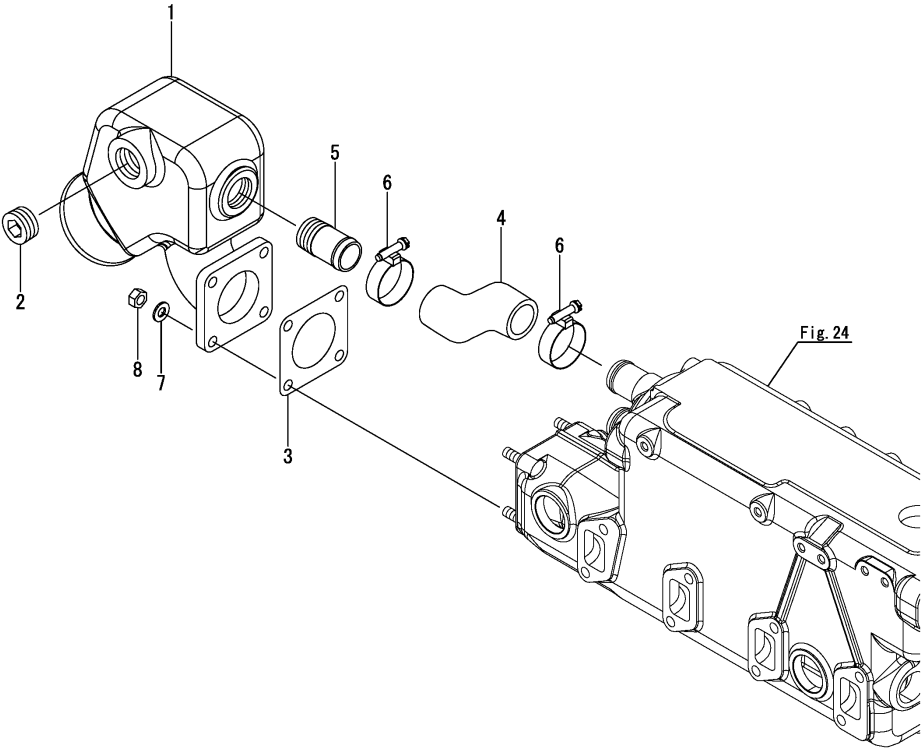
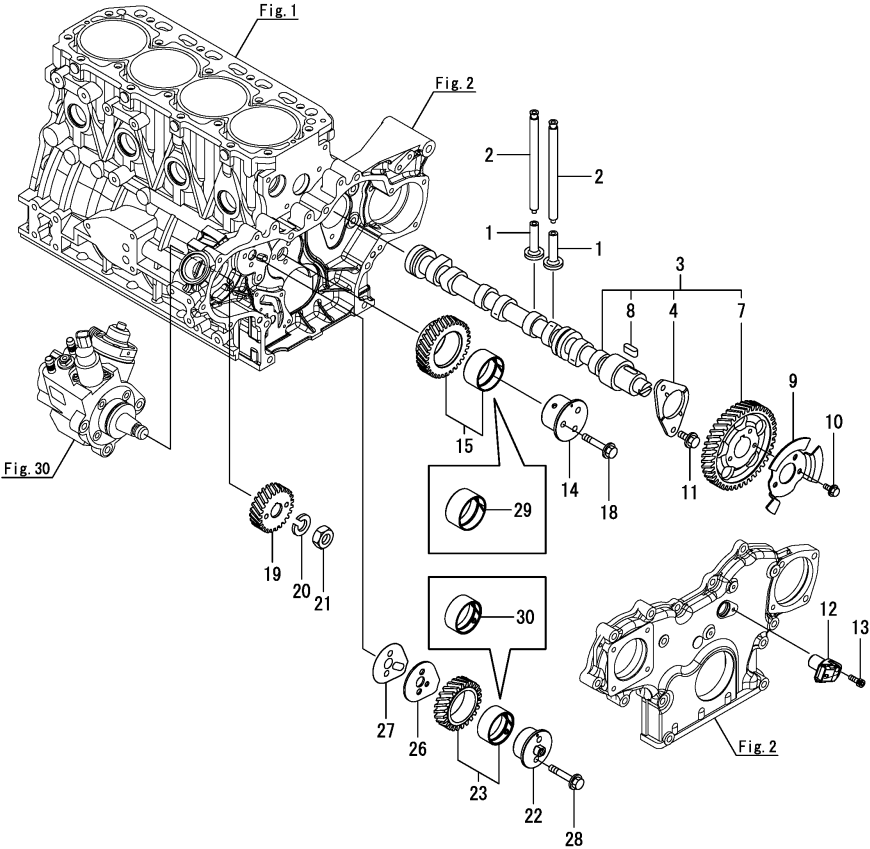


Fig.16. CAMSHAFT & DRIVING GEAR

(A)=4JH45
(B)=4JH57
(C)=

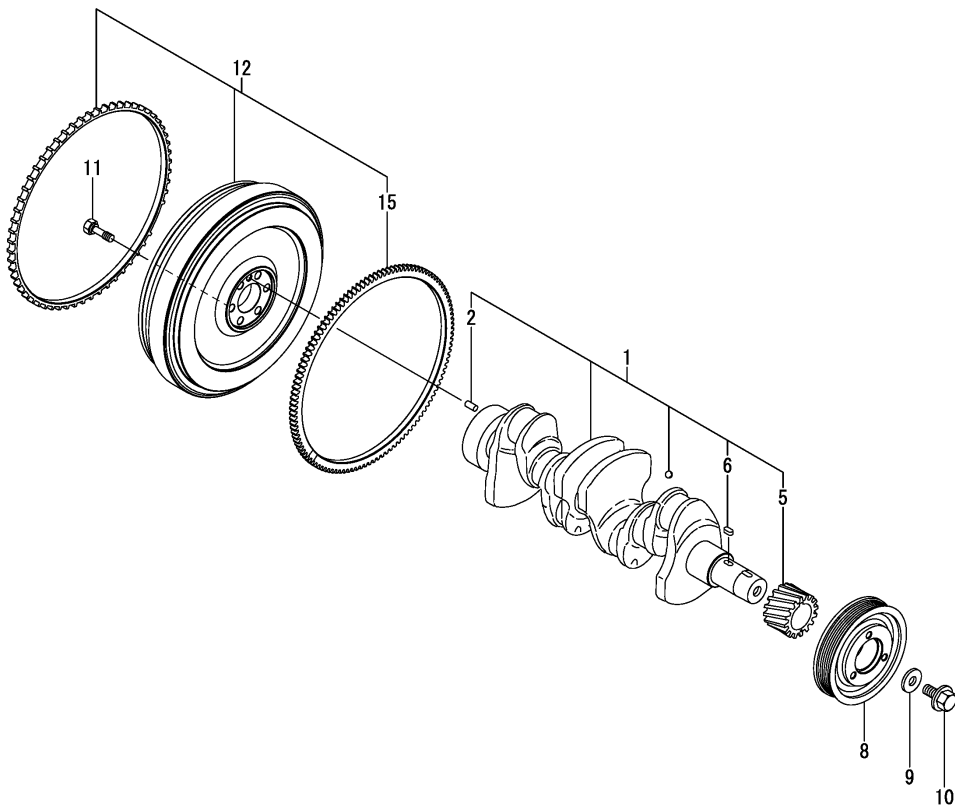
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	8	8						
2	1	129150-14400	ROD, PUSH L=178	8	8						
3	1	129C00-14580	CAMSHAFT ASSY	1	1						
4	2	129150-02450	BEARING, THRUST	1	1						
7	2	129A00-14100	GEAR,CAMSHAFT	1	1						
8	2	22512-070140	KEY, 7X 14	1	1						
9	1	129A00-14700	PULSER, CAMSHAFT	1	1						
10	1	26106-060102	BOLT, M6X 10 PLATED	3	3						
11	1	26106-080142	BOLT, M8X 14 PLATED	2	2						
12	1	129A00-14710	SENSOR, GEAR REV	1	1						
13	1	26450-060162	BOLT, M6X 16	1	1						
14	1	129A00-25050	SHAFT, IDLE GEAR A	1	1						
15	1	129A00-25110	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	129A00-25060	SHAFT, IDLE GEAR B	1	1						
23	1	129A00-25120	GEAR ASSY, IDLE B	1	1						
26	1	129A00-25200	PLATE, IDLE SHAFT B	1	1						
27	1	129A00-25210	GASKET, IDLE SHAFT B	1	1						
28	1	26106-080402	BOLT, M8X 40 PLATED	2	2						
29	1	119802-25071	BUSH, IDLE GEAR	1	1						1
30	1	129A00-25080	BUSH	1	1						1



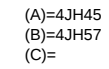
Remarks
(1)Spare parts.

Fig.17. CRANKSHAFT & FLYWHEEL



No.	Lev.	Parts No.	Description	(A)=4JH45	(D)=
				(B)=4JH57	(E)=
				(C)=	(F)=
				Q'ty	I R
				(A)	(B)
				(C)	(D)
				(E)	(F)
1	1	129604-21000	CRANKSHAFT ASSY	1	1
2	2	129100-01580	PIN, 8X16	1	1
5	2	119803-21200	GEAR, CRANKSHAFT	1	1
6	2	22512-070140	KEY, 7X 14	1	1
8	1	129677-21600	PULLEY, CRANK RIB	1	1
9	1	129795-21661	WASHER	1	1
10	1	121850-21680	BOLT	1	1
11	1	121111-21501	BOLT, FLYWHEEL	6	6
12	1	129675-21580	FLYWHEEL ASSY	1	1
15	2	119865-21600	GEAR, RING	1	1

Fig.18. PISTON & CONNECTING ROD



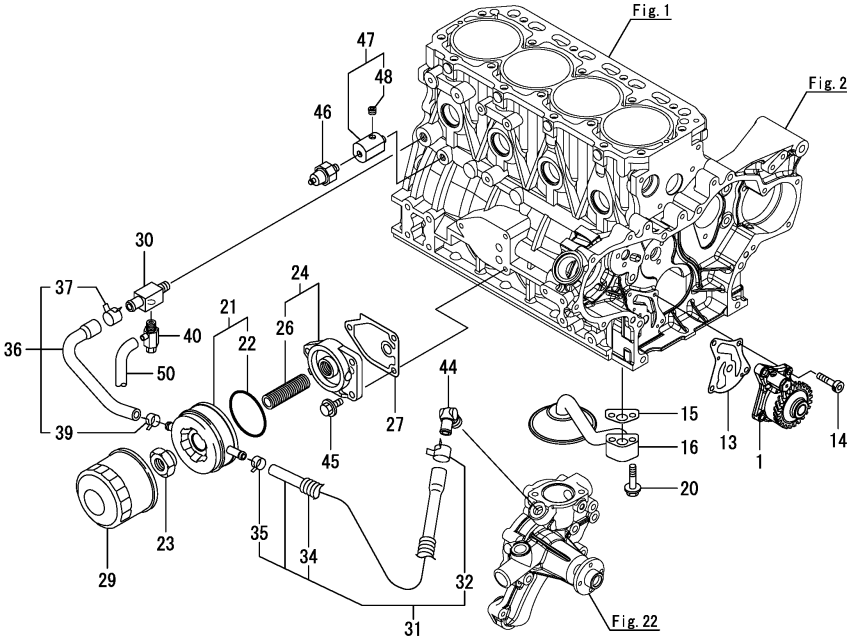
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129675-22000	PISTON ASSY	4	4						
3	2	129A00-22500	RING ASSY, PISTON	4	4						
9	1	129202-22300	PIN, PISTON D26 L70	4	4						
10	1	22252-000260	RING, 26	8	8						
11	1	729402-23100	ROD ASSY, CONNECTING	4	4						
16	3	121550-23200	BOLT, CONNECTING ROD	8	8						
17	2	129150-23601	BEARING, CRANK PIN	4	4						
19	1	129100-23910	BEARING, PISTON PIN	4	4						1
20	1	129150-23611	BEARING, 0.25 US	4	4						2

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

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.19. LUB. OIL SYSTEM



(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129C00-32000	PUMP ASSY, LUB.OIL	1	1						
13	1	129486-32020	GASKET, PUMP	1	1						
14	1	26450-060252	BOLT, M6X 25	4	4						
15	1	129150-35042	GASKET	1	1						
16	1	129670-35090	PIPE ASSY, OIL INLET	1	1						
20	1	26106-080352	BOLT, M8X 35 PLATED	2	2						
21	1	129508-33010	COOLER ASSY, OIL	1	1						
22	2	129508-33050	O-RING	1	1						
23	1	129417-33111	NUT, OIL COOLER	1	1						
24	1	129006-35100	BRACKET ASSY, FILTER	1	1						
26	2	129417-35150	STUD, L=67	1	1						
27	1	129150-35111	GASKET	1	1						
29	1	129150-35153	FILTER	1	1						1
30	1	129006-44480	JOINT	1	1						
31	1	129657-49020	PIPE ASSY, WATER	1	1						
32	2	171008-03990	CLIP, HOSE 18.5	1	1						
34	2	129657-49180	TUBE, CORRUGATED	1	1						
35	2	23080-015000	CLAMP, 15	1	1						
36	1	129508-49030	PIPE ASSY, WATER	1	1						
37	2	171008-03990	CLIP, HOSE 18.5	1	1						
39	2	23080-015000	CLAMP, 15	1	1						
40	1	119620-49290	COCK ASSY, 1/4	1	1						
44	1	129466-49300	ELBOW, PT3/8	1	1						
45	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
46	1	121252-39450	SWITCH, 0.5KG	1	1						
47	1	129670-39600	DAMPER ASSY, R1/8	1	1						
48	2	23875-010000	PLUG, R01	1	1						
50	1	23061-070300	PIPE, 7X 300	1	1						

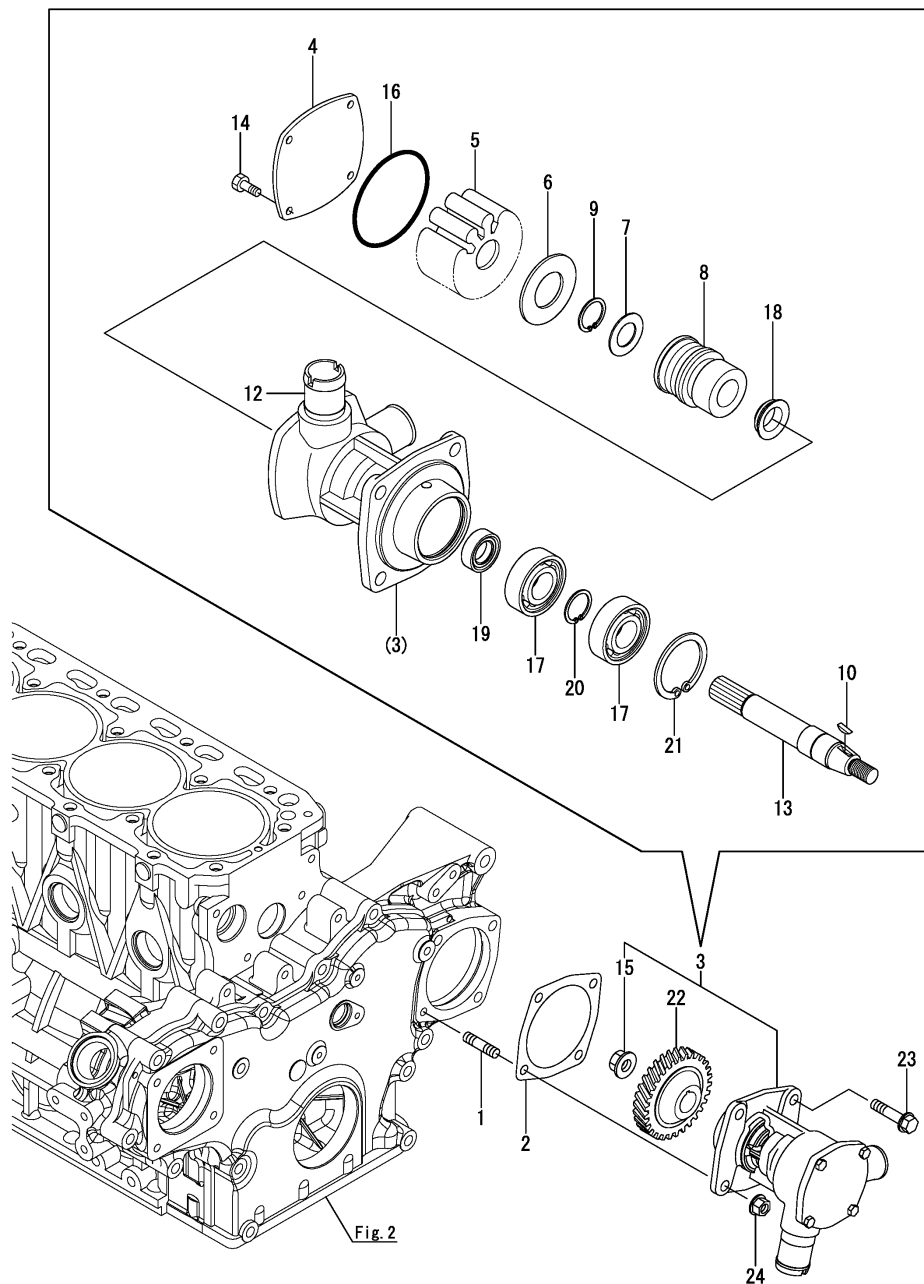
Remarks
(1)Spare parts.

(A)=4JH45
(B)=4JH57
(C)=

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

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

Fig.21. COOLING SEA WATER PUMP

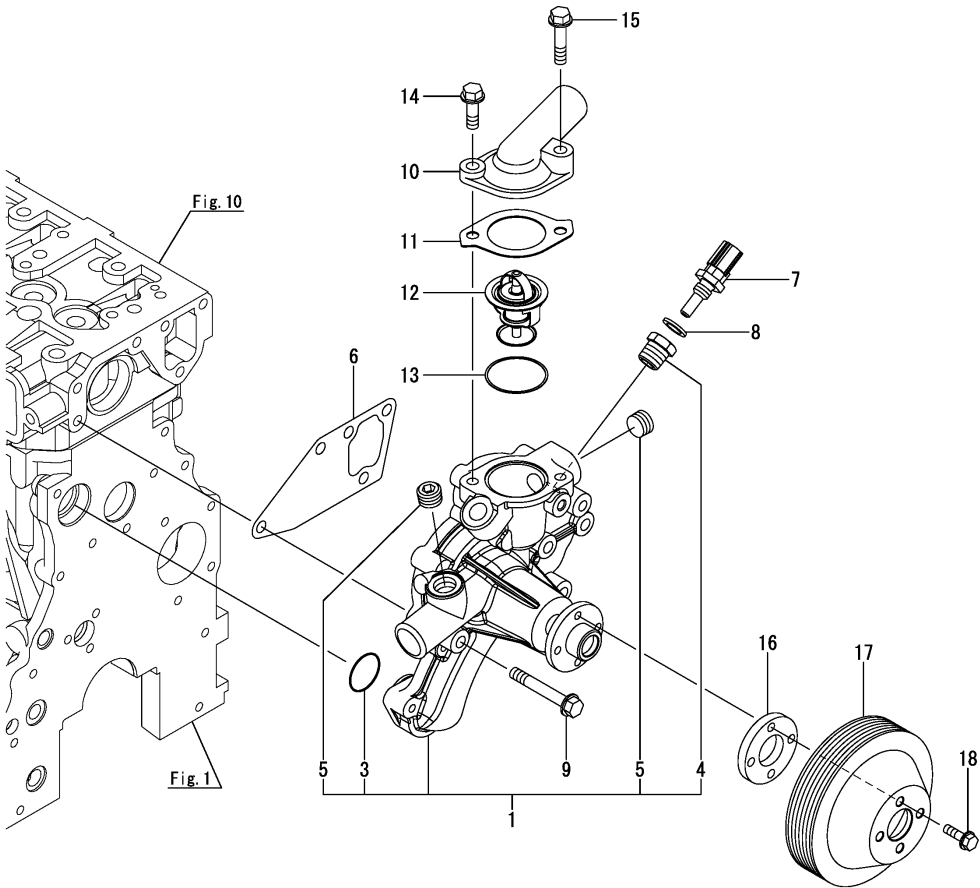


No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	121450-01560	STUD, M8X22	1	1				
2	1	129150-01881	GASKET	1	1				
3	1	129271-42502	PUMP ASSY, SW	1	1				
4	2	129670-42520	COVER	1	1				
5	2	129670-42531	IMPELLER	1	1				
6	2	129670-42540	PLATE	1	1				
7	2	129670-42550	WASHER	1	1				
8	2	129670-42560	SEAL, MECHANICAL	1	1				
9	2	129670-42570	CIRCLIP	1	1				
10	2	129670-42580	KEY	1	1				
12	2	123325-49421	JOINT, PIPE	1	1				
13	2	X0146531	SHAFT	1	1				
14	2	129271-42510	SCREW	4	4				
15	2	X0505526	NUT, LOCK	1	1				
16	2	119773-42570	O-RING	1	1				
17	2	X0508129	BEARING	2	2				
18	2	120650-42420	V-RING	1	1				
19	2	X0529105	SEAL	1	1				
20	2	120650-42380	CIRCLIP	1	1				
21	2	120650-42350	CIRCLIP	1	1				
22	1	129271-42700	GEAR, PUMP	1	1				
23	1	26106-080352	BOLT, M8X 35 PLATED	3	3				
24	1	26366-080002	NUT, M8	1	1				

Fig.22. COOLING FRESH WATER PUMP

(A)=4JH45
(B)=4JH57
(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, CW	1	1						
3	2	129054-42320	O-RING	1	1						
4	2	129263-49350	JOINT	1	1						
5	2	129916-49740	PLUG, R03	2	2						
6	1	129486-42050	GASKET, WATER PUMP	1	1						
7	1	129927-44900	SENSOR.THERMO CW	1	1						
8	1	22190-120002	WASHER, SEAL 12	1	1						
9	1	26106-080552	BOLT, M8X 55 PLATED	4	4						
10	1	129470-49540	COVER, THERMOSTAT	1	1						
11	1	129795-49551	GASKET	1	1						
12	1	129470-49801	THERMOSTAT, 76.5	1	1						
13	1	129150-49811	GASKET, THERMOSTAT	1	1						
14	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
15	1	26106-080352	BOLT, M8X 35 PLATED	1	1						
16	1	129677-42310	SPACER, PULLEY	1	1						
17	1	129271-42350	PULLEY,CW PUMP 6PK	1	1						
18	1	26106-060202	BOLT, M6X 20 PLATED	4	4						

Fig.23. V-BELT

(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129675-21800	PULLEY,IDLE	1	1						
2	1	129675-21810	SUPPORT,IDLE PULLEY	1	1						
3	1	129675-42280	BELT,V RIBED	1	1						
4	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
5	1	26106-080402	BOLT, M8X 40 PLATED	1	1						
6	1	26106-080902	BOLT, M8X 90 PLATED	1	1						
7	1	26106-100452	BOLT, M10X 45 PLATED	1	1						

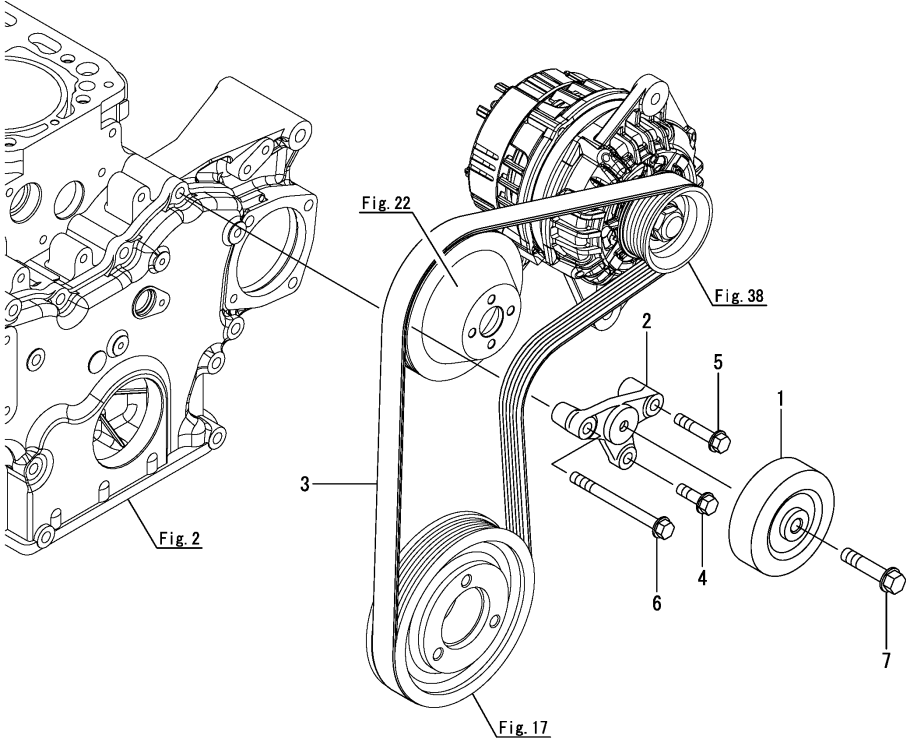


Fig.24. COOLING FRESH WATER COOLER

(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129550-13110	GASKET	1	1						
2	1	129670-44911	COOLER ASSY, CW	1	1						
3	2	129670-07230	LIFTER	1	1						
4	2	129670-13600	STUD	4	4						
7	2	129673-44090	BOLT, M8X40	4	4						
8	2	129673-44131	CAP	1	1						
9	2	129670-44150	O-RING, 74.5X3	2	2						
10	2	129670-44430	COVER CMP,COOLER A	1	1						
11	3	120322-33050	GASKET	1	1						
13	2	129670-44450	COVER, COOLER	1	1						
14	2	129670-44460	CORE ASSY, COOLER	1	1						
15	2	119620-49290	COCK ASSY, 1/4	1	1						
19	2	23414-170000	GASKET, 17X1.0	1	1						
20	2	23894-030002	PLUG, G3/8	1	1						
21	2	26450-080162	BOLT, M8X 16	2	2						
22	1	23061-070300	PIPE, 7X 300	1	1						
23	1	23871-030000	PLUG, R03	1	1						
24	1	26106-081002	BOLT, M8X100 PLATED	6	6						
25	1	26366-080002	NUT, M8	2	2						
26	1	129693-44300	STUD	2	2						
27	1	128397-44500	TANK ASSY, SUB	1	1						
28	1	129270-44501	PIPE	1	1						
29	1	128397-44510	BRACKET	1	1						
30	1	129670-44570	LABEL, SUB-TANK	1	1						
31	1	23010-013000	CLAMP 13	2	2						

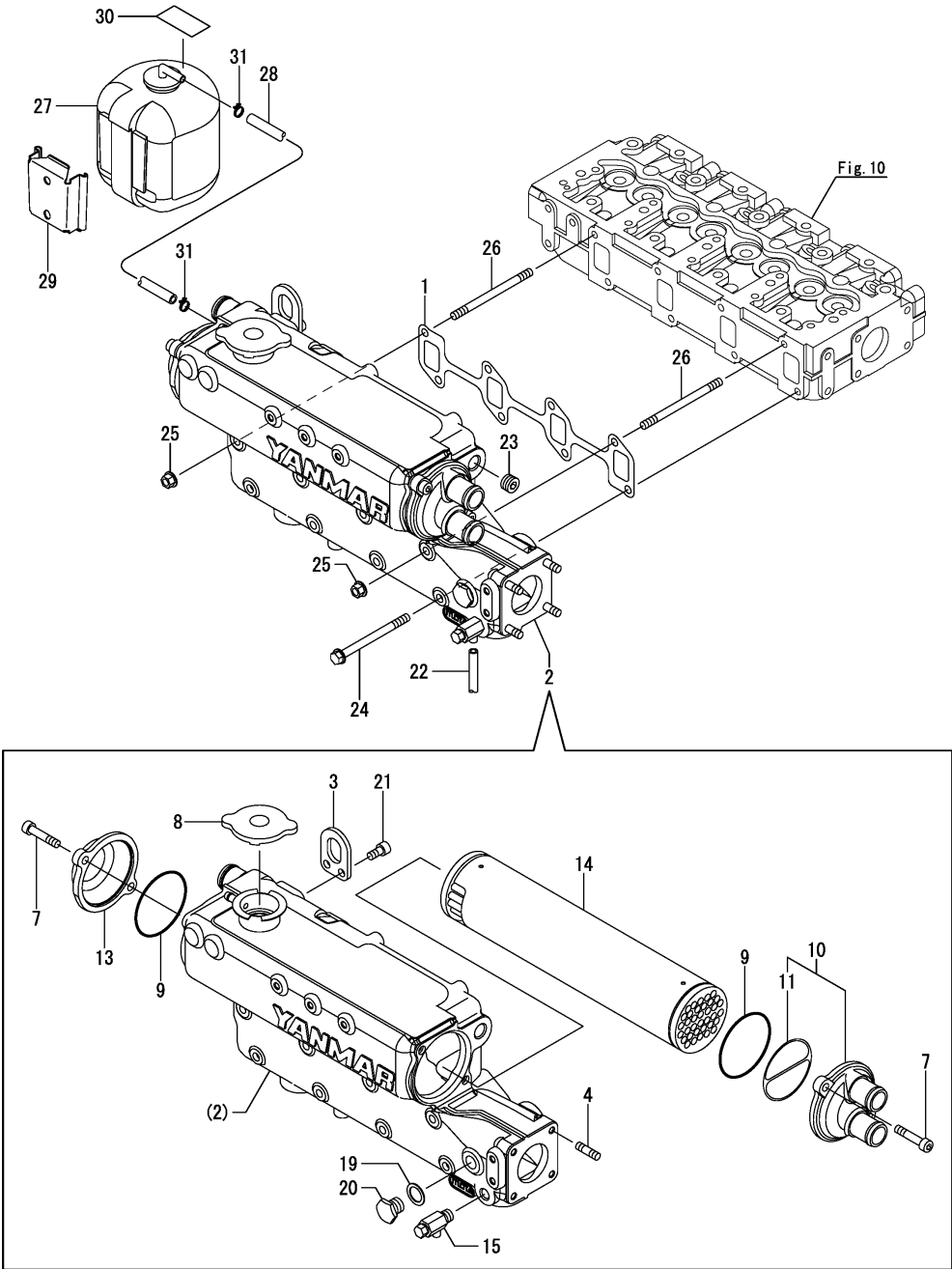


Fig.25. COOLING SEA WATER PIPE(FOR KM35A2, KM35P, SD60, CLUTCHLESS)

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129670-49020	PIPE, WATER	1	1						
2	1	129271-49110	RETAINER, PIPE	1	1						
3	1	129675-49120	RETAINER, HOSE	1	1						
4	1	129670-49360	RETAINER, PIPE	1	1						
5	1	129670-49500	CLIP, HOSE 38	2	2						
6	1	26106-080122	BOLT, M8X 12 PLATED	1	1						

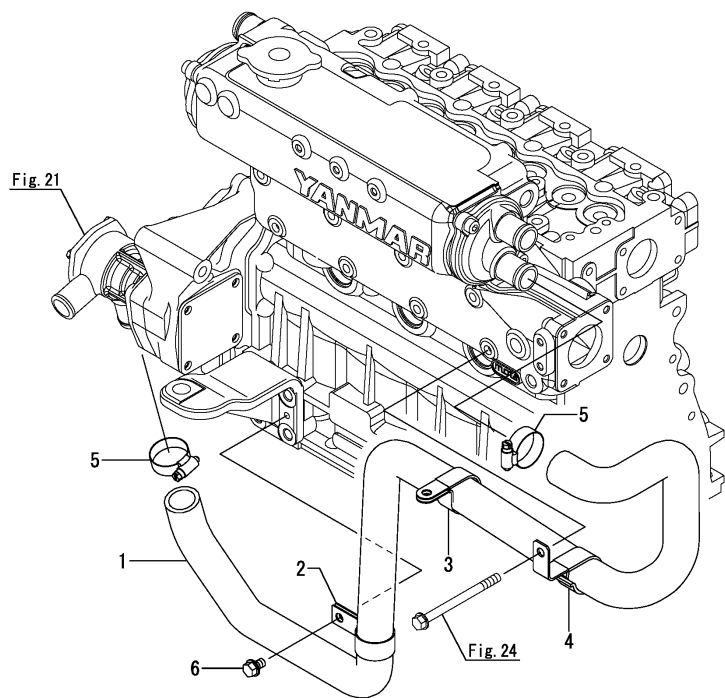
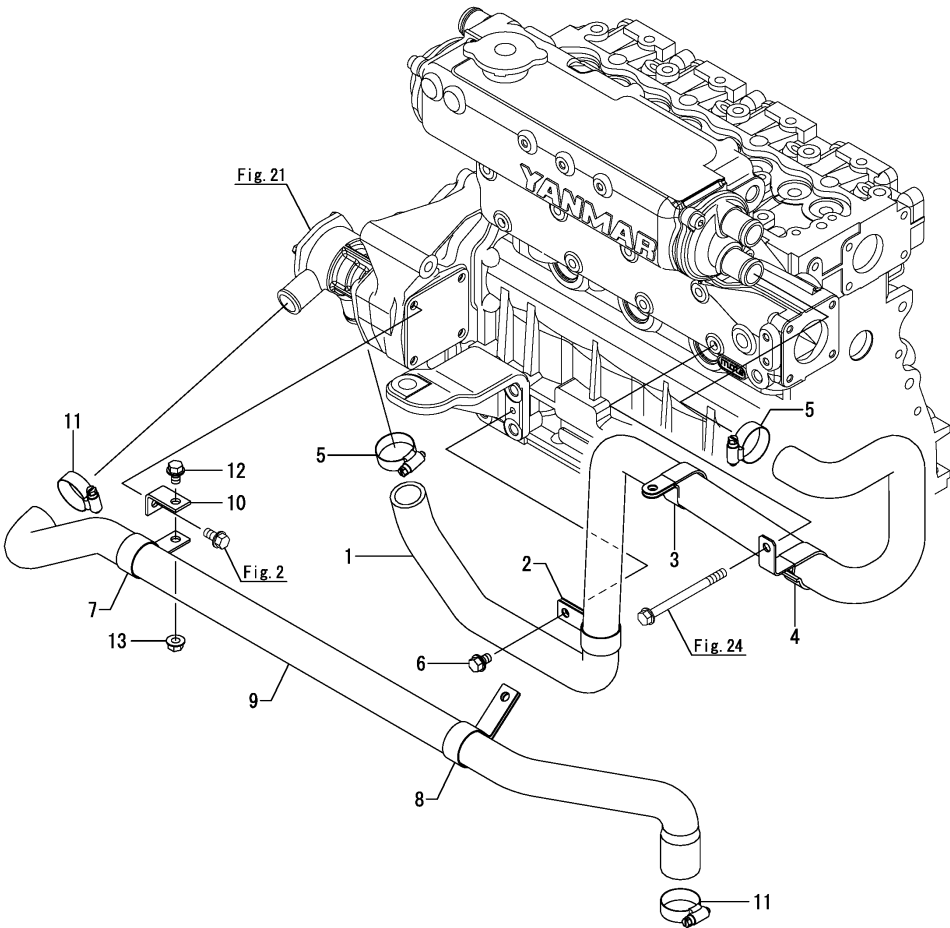
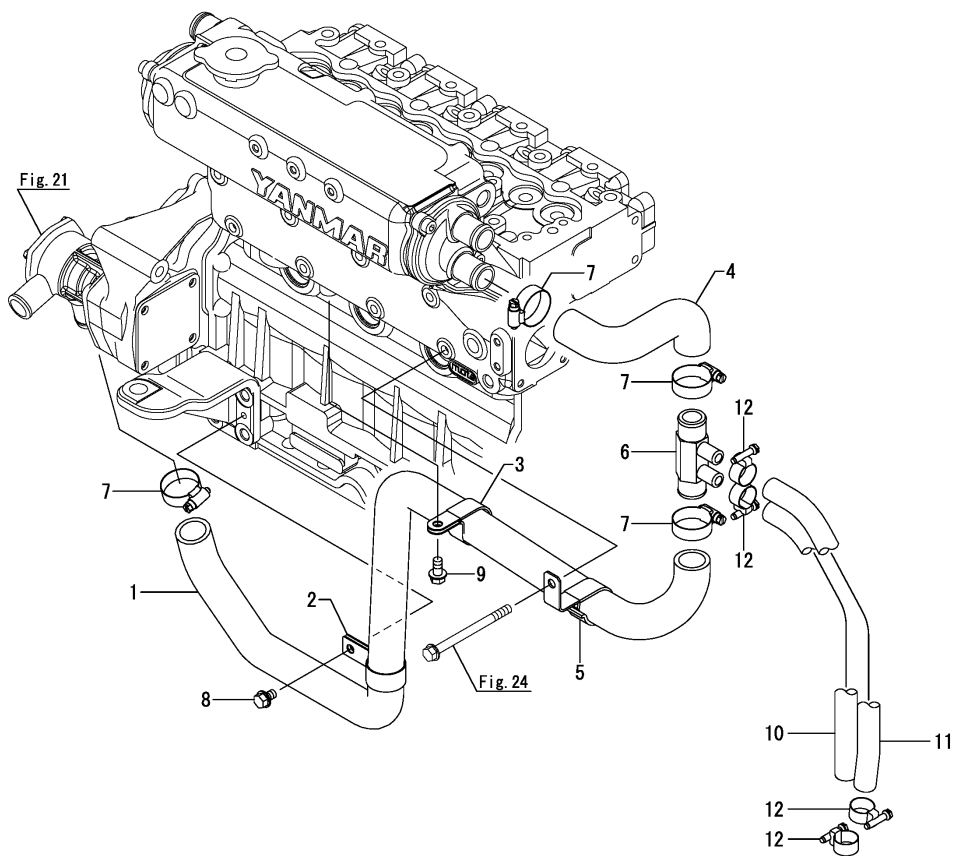


Fig.26. COOLING SEA WATER PIPE(FOR ZF30M)



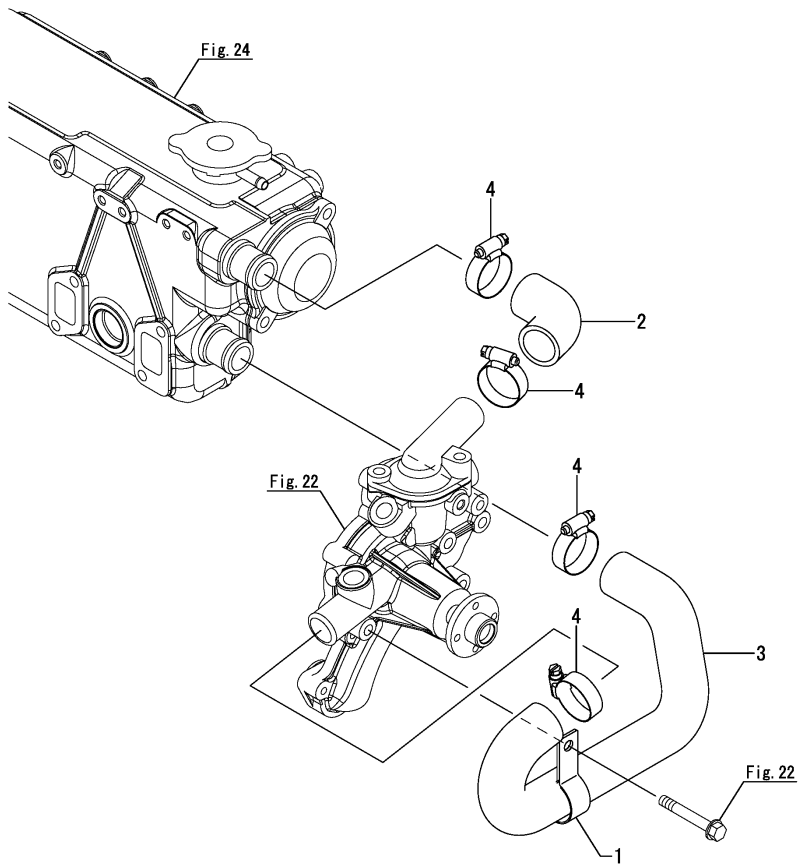
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129670-49020	PIPE, WATER	1	1						
2	1	129271-49110	RETAINER, PIPE	1	1						
3	1	129675-49120	RETAINER, HOSE	1	1						
4	1	129670-49360	RETAINER, PIPE	1	1						
5	1	129670-49500	CLIP, HOSE 38	2	2						
6	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
7	1	129271-49110	RETAINER, PIPE	1	1						
8	1	129671-49110	RETAINER	1	1						
9	1	129670-49250	PIPE, WATER	1	1						
10	1	129670-49270	BRACKET	1	1						
11	1	129670-49500	CLIP, HOSE 38	2	2						
12	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
13	1	26366-080002	NUT, M8	1	1						

Fig.27. COOLING SEA WATER PIPE(FOR KM4A)



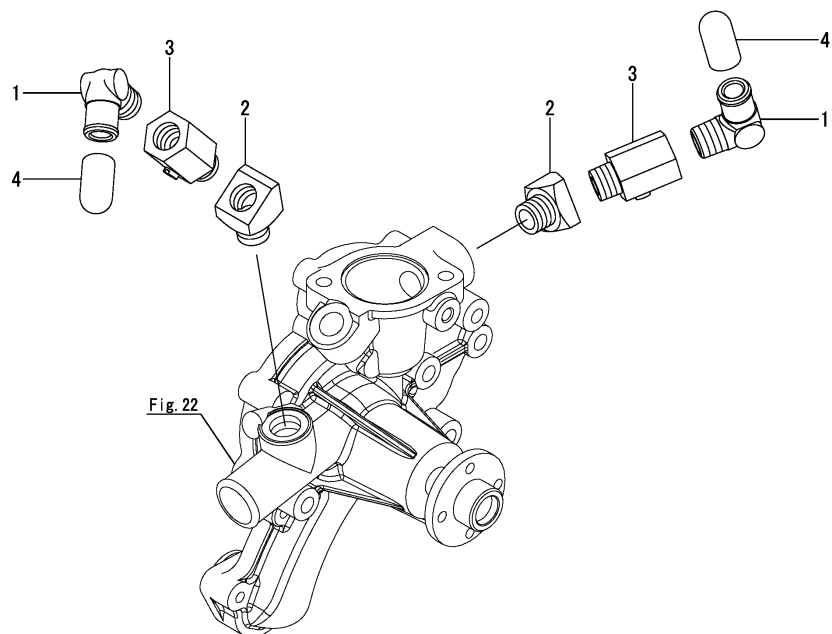
No.	Lev.	Parts No.	Description	(A)=4JH45	(B)=4JH57	(C)=	(D)=	(E)=	(F)=	I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129670-49090	PIPE, WATER	1	1						
2	1	129271-49110	RETAINER, PIPE	1	1						
3	1	129675-49120	RETAINER, HOSE	1	1						
4	1	129670-49220	PIPE, WATER	1	1						
5	1	129670-49360	RETAINER, PIPE	1	1						
6	1	129670-49410	JOINT	1	1						
7	1	129670-49500	CLIP, HOSE 38	4	4						
8	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
9	1	26106-080162	BOLT, M8X 16 PLATED	1	1						
10	1	129670-49230	PIPE, WATER	1	1						
11	1	129670-49240	PIPE, WATER	1	1						
12	1	23000-022000	CLAMP, 22	4	4						

Fig.28. COOLING FRESH WATER PIPE



				(A)=4JH45 (B)=4JH57 (C)=					(D)= (E)= (F)=			
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	129671-49210	PIPE, WATER	1	1							
3	1	129671-49220	PIPE, WATER	1	1							
4	1	129670-49500	CLIP, HOSE 38	4	4							

Fig.29. HOT WATER CONNECTION(OPTIONAL)

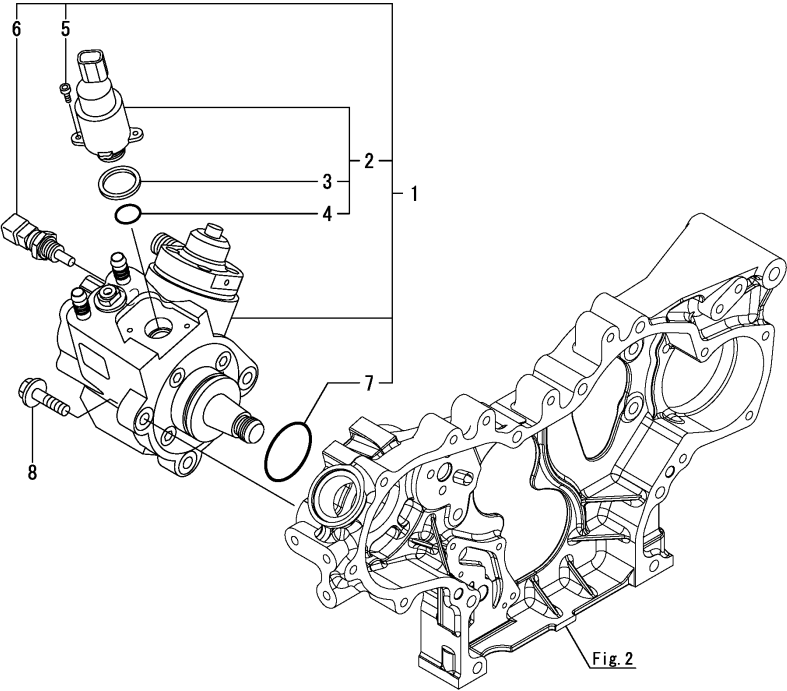


No.	Lev.	Parts No.	Description	(A)=4JH45 (B)=4JH57 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129051-49310	ELBOW, PT3/8	2	2						
2	1	129677-49320	ELBOW, 3/8-30DEG	2	2						
3	1	129670-49390	COCK ASSY,R1/4XRP3/8	2	2						
4	1	128990-49400	CAP WATER	2	2						

Fig.30. FUEL SUPPLY PUMP

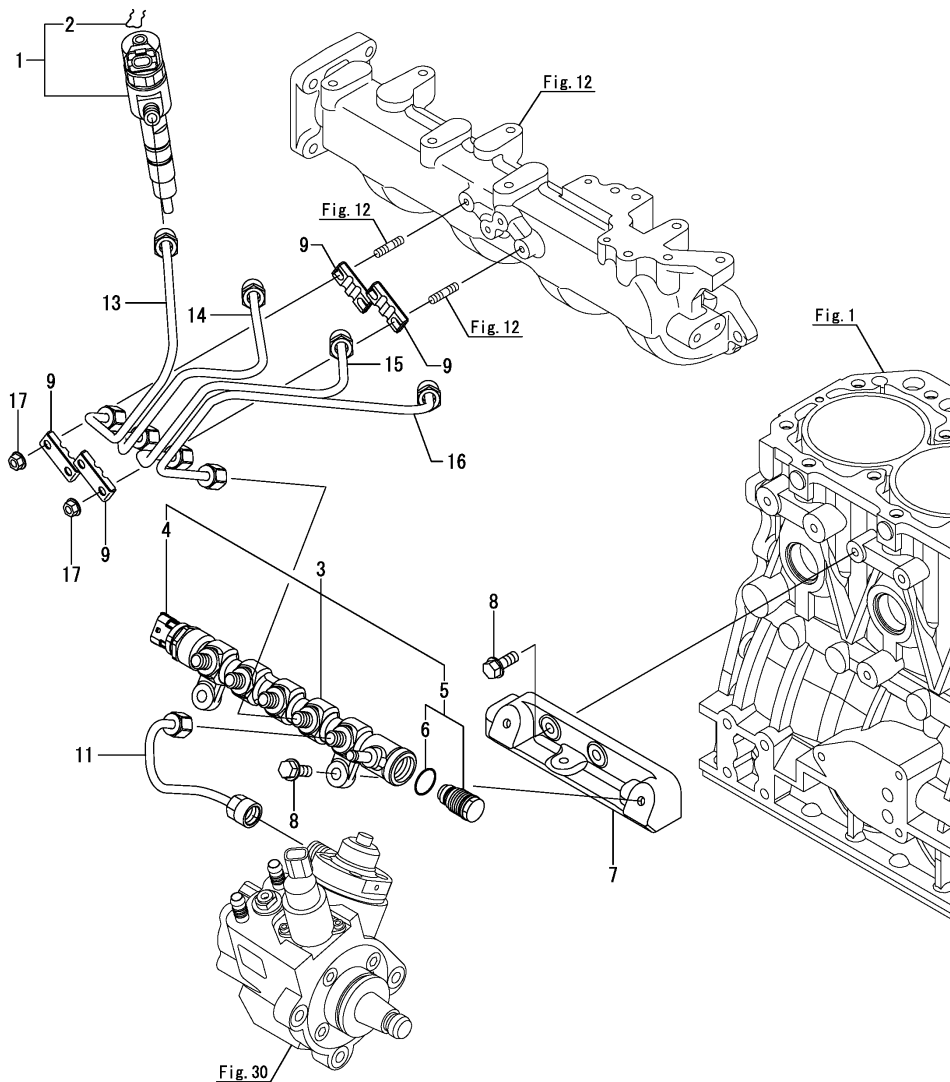
(A)=4JH45
(B)=4JH57
(C)=

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



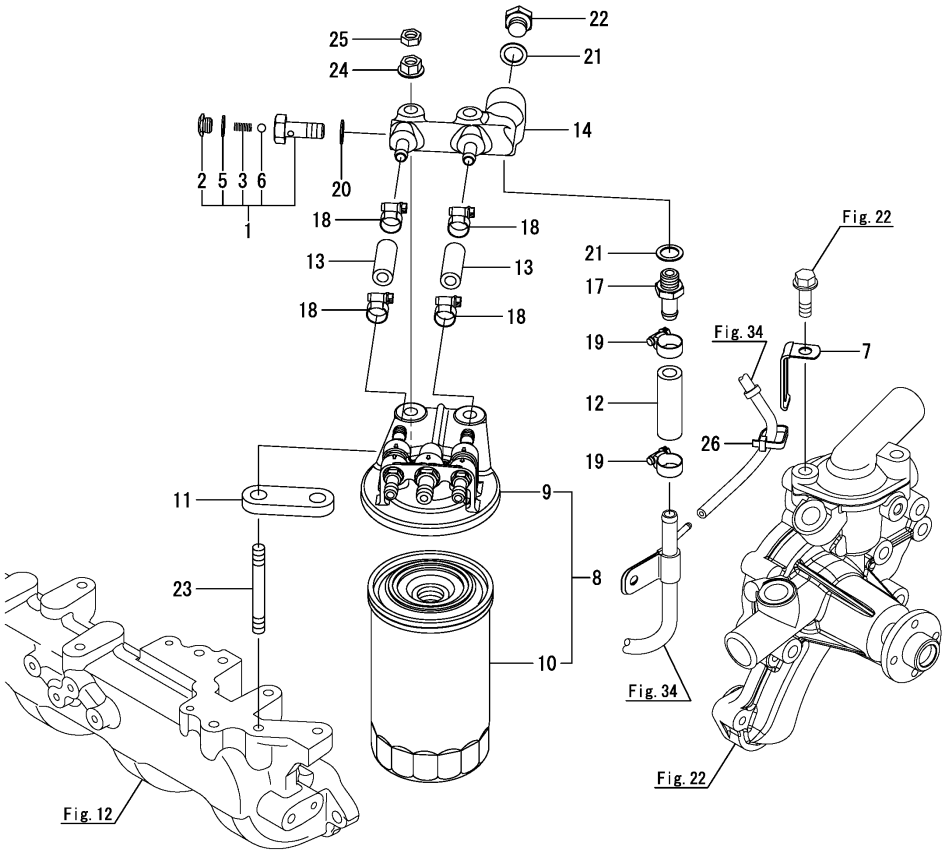
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129A00-51000	PUMP ASSY, FUEL	1	1						
2	2	129A00-51100	VALVE ASSY, MPROP	1	1						
3	3	129A00-51110	RING, SEALING	1	1						
4	3	129A00-51120	O-RING, MPROP	1	1						
5	2	129A00-51130	BOLT, MPROP	2	2						
6	2	129A00-51200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

Fig.31. FUEL INJECTION VALVE & FUEL INJECTION PIPE



No.	Lev.	Parts No.	Description	(A)=4JH45 (B)=4JH57 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129675-53100	INJECTOR, CR	4	4						
2	2	129A00-53200	RING, RETAINING	4	4						
3	1	129C00-57000	RAIL ASSY	1	1						
4	2	129A00-57100	SENSOR, RAILPRESSURE	1	1						
5	2	129A00-57200	VALVE ASSY, PLV4	1	1						
6	3	129A00-57210	O-RING, PLV4	1	1						
7	1	129677-57201	BRACKET,COMMON RAIL	1	1						
8	1	26106-080202	BOLT, M8X 20 PLATED	4	4						
9	1	122780-59100	RETAINER	4	4						
11	1	129677-59700	PIPE ASSY, RAIL IN	1	1						
13	1	129677-59810	PIPE ASSY, INJ. NO.1	1	1						
14	1	129677-59820	PIPE ASSY, INJ. NO.2	1	1						
15	1	129677-59830	PIPE ASSY, INJ. NO.3	1	1						
16	1	129677-59840	PIPE ASSY, INJ. NO.4	1	1						
17	1	26366-060002	NUT, M6	4	4						

Fig.32. FUEL FILTER

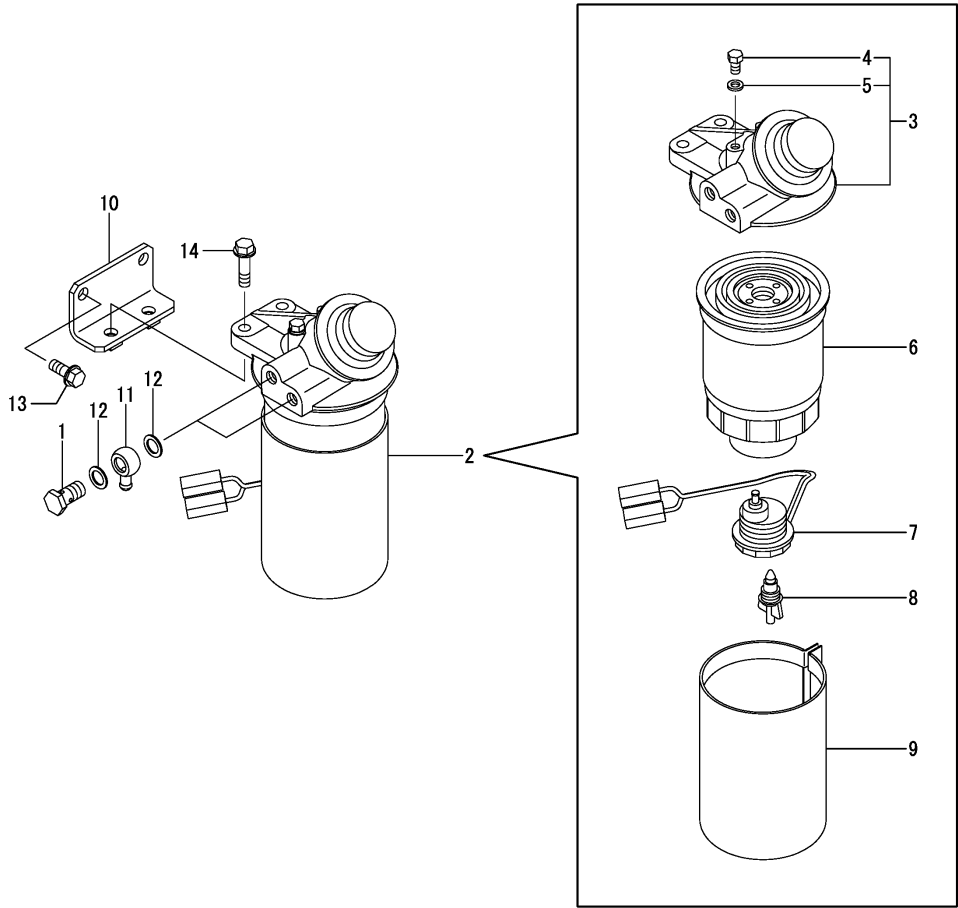


(A)=4JH45
(B)=4JH57
(C)=

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

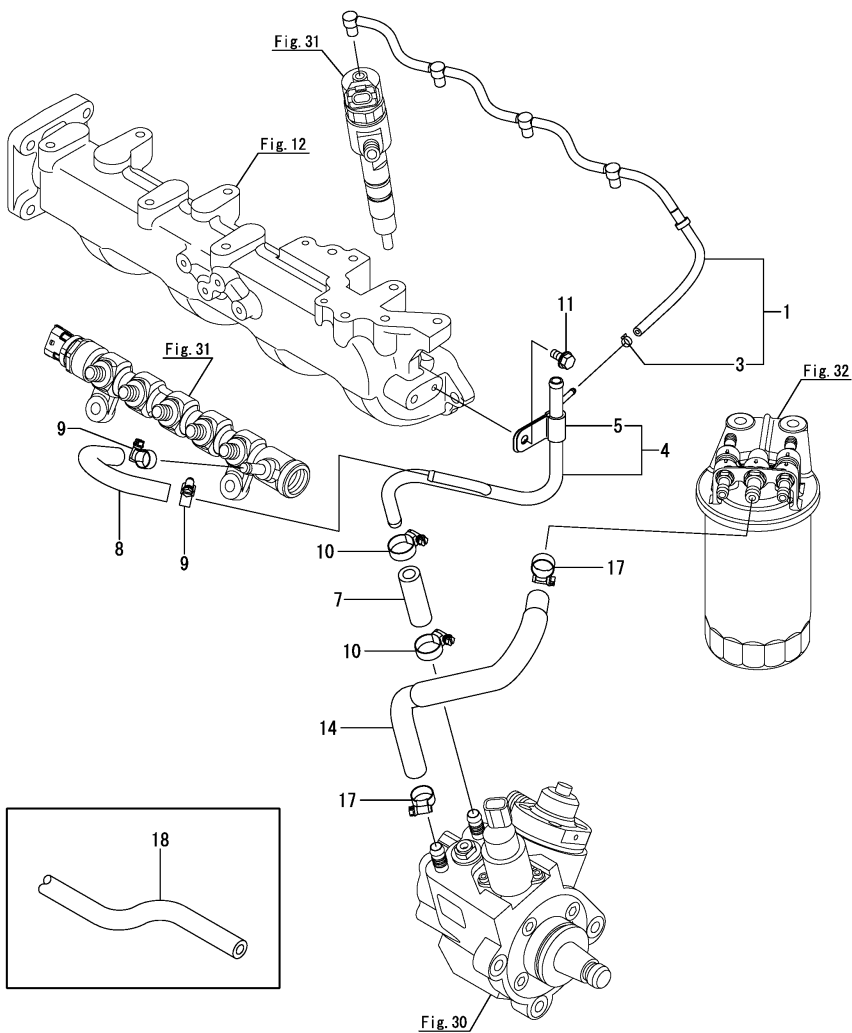
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119187-39700	VALVE ASSY, CHECK	1	1						
2	2	127610-39350	RETAINER, SPRING	1	1						
3	2	127687-39360	SPRING	1	1						
5	2	23414-100014	GASKET, 10X1.0	1	1						
6	2	24190-070001	BALL, STEEL 7/32	1	1						
7	1	194440-51620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

Fig.33. FUEL PRE-FILTER(HULL SIDE)



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

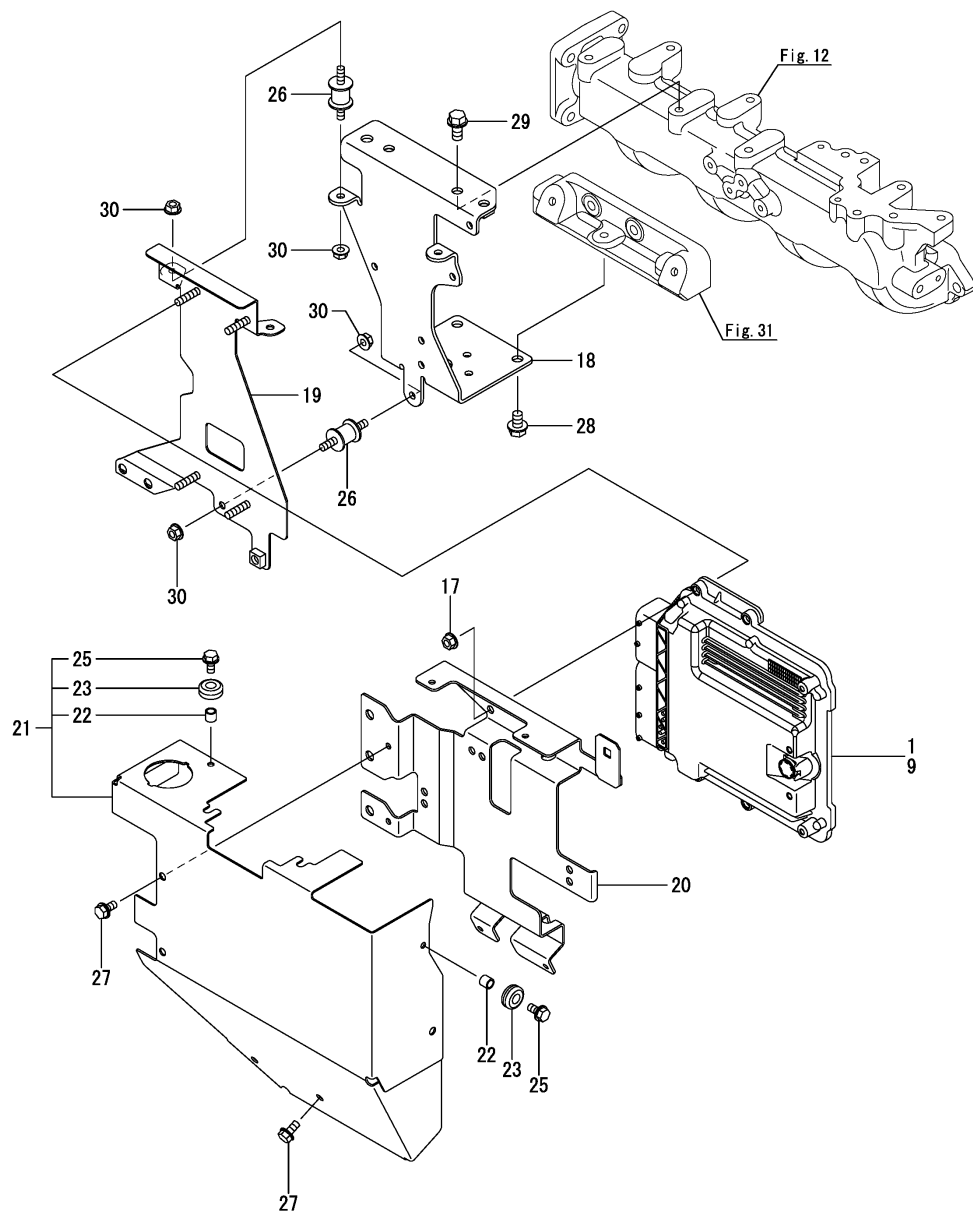
Fig.34. FUEL PIPE



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

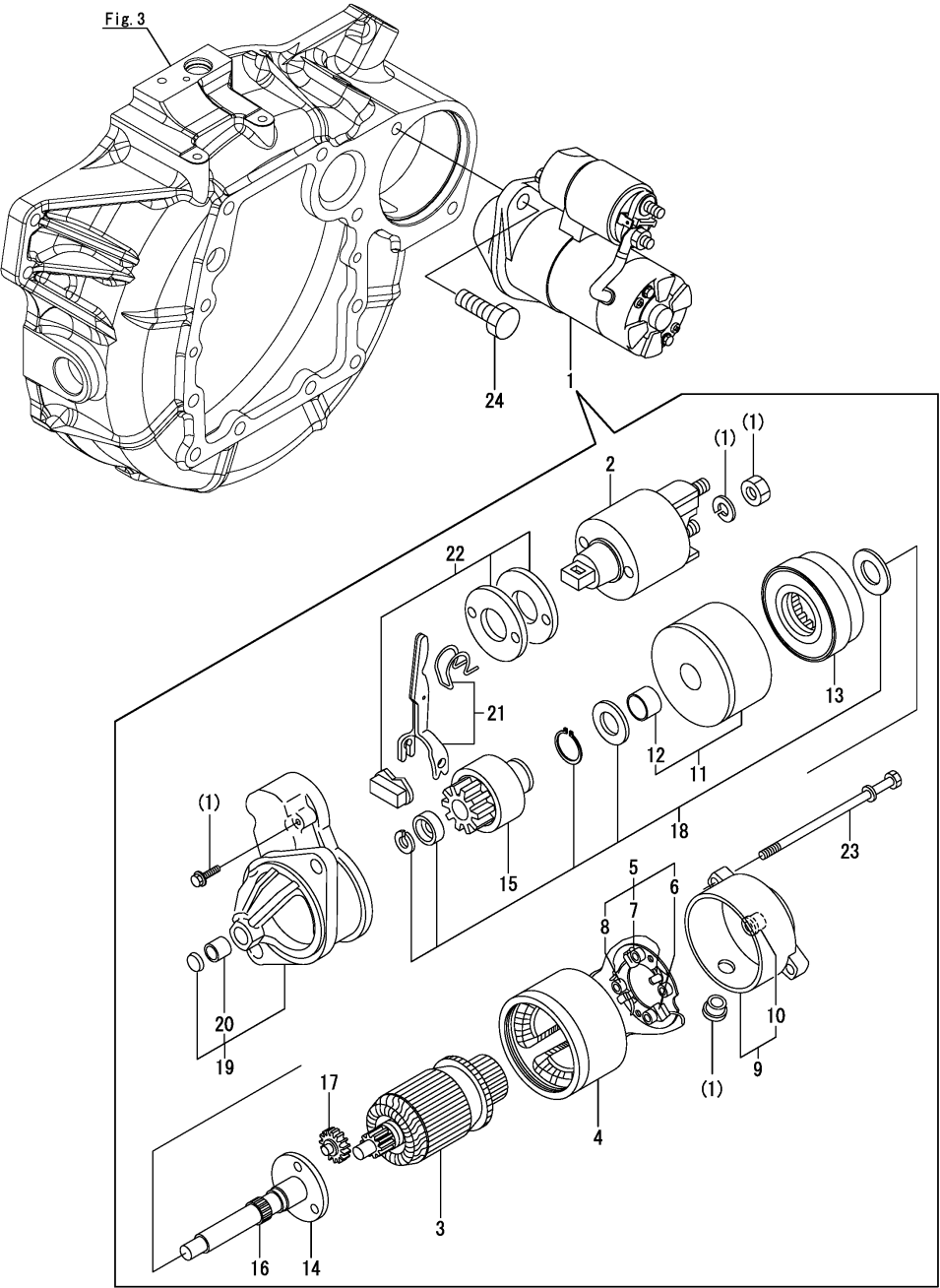
Remarks
(1)For hull side piping (Optional parts.)

Fig.35. ELECTRIC CONTROL UNIT(ECU) & BRACKET



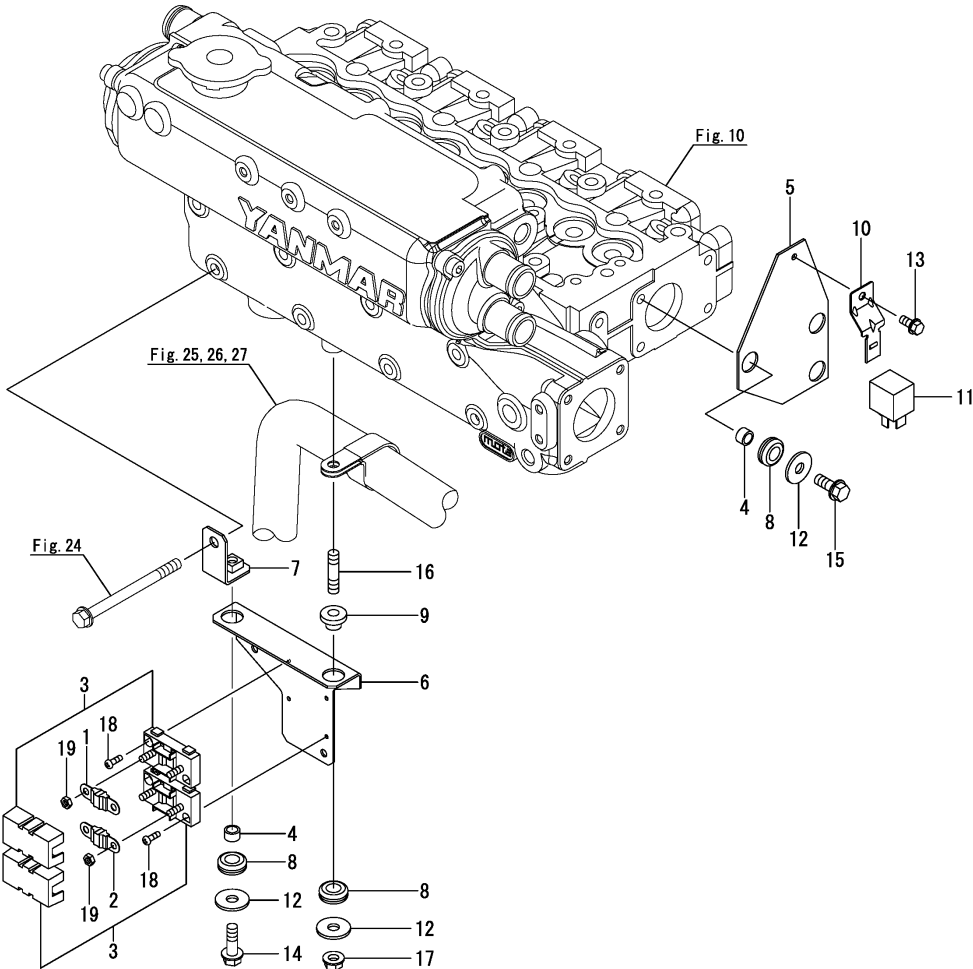
No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	129674-75010	ECU ASSY,4JH45	1					
9	1	129675-75010	ECU ASSY,4JH57		1				
17	1	26366-060002	NUT, M6	4	4				
18	1	129677-77720	BRACKET, ECU BASE	1	1				
19	1	129677-77740	BRACKET, ECU HOLDER	1	1				
20	1	129677-77770	PLATE,ECU	1	1				
21	1	129677-77790	COVER ASSY, ECU	1	1				
22	2	128990-77441	COLLAR, M6	2	2				
23	2	128990-77600	GROMMET, M6	2	2				
25	2	26106-060122	BOLT, M6X 12 PLATED	2	2				
26	1	119175-91050	ABSORBER	3	3				
27	1	26106-060122	BOLT, M6X 12 PLATED	4	4				
28	1	26106-080122	BOLT, M8X 12 PLATED	2	2				
29	1	26106-080162	BOLT, M8X 16 PLATED	1	1				
30	1	26366-060002	NUT, M6	6	6				

Fig.36. STARTING MOTOR



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

Fig.37. RELAY

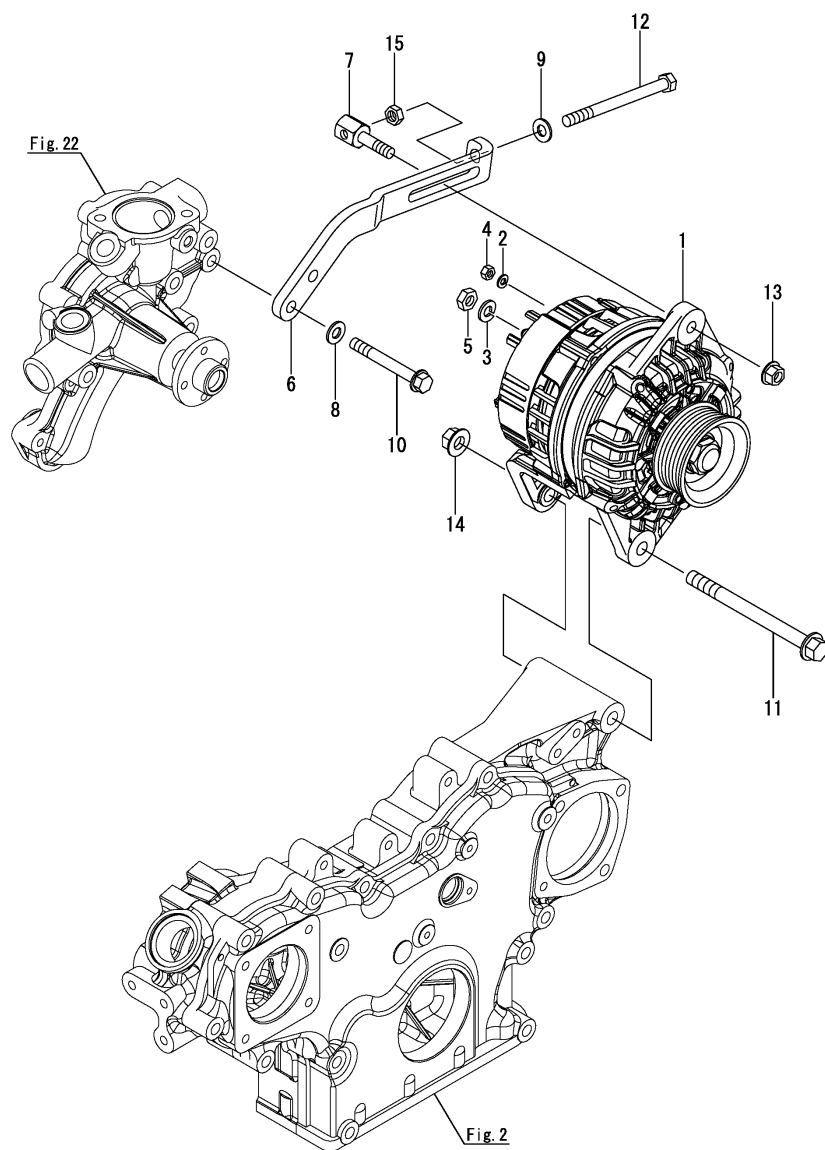


(A)=4JH45
(B)=4JH57
(C)=

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

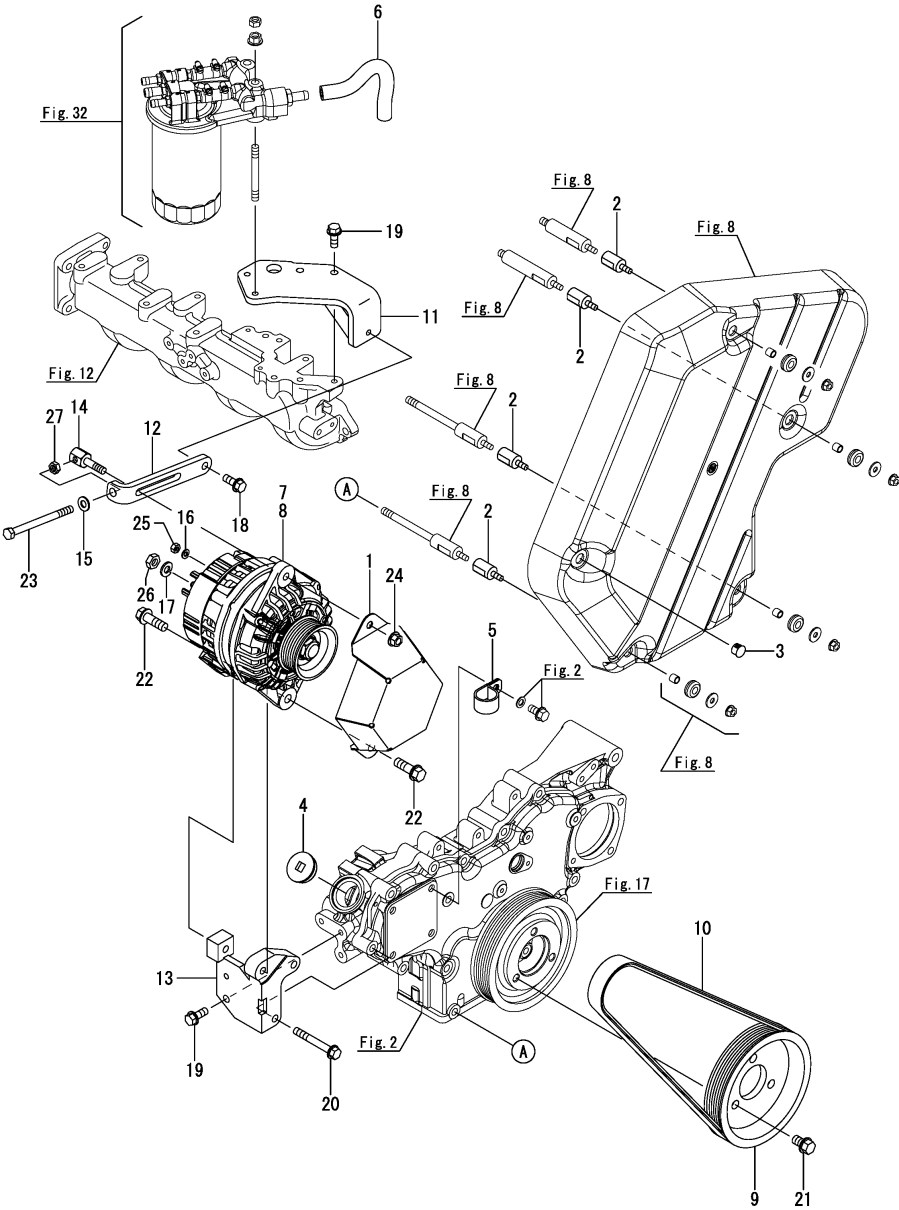
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	127677-77060	FUSE, 32V-200A	1	1						
2	1	119578-77080	FUSE, 32V-50A	1	1						
3	1	119578-77200	HOLDER, FUSE	2	2						
4	1	128990-77430	COLLAR	4	4						
5	1	129675-77560	BRACKET,RELAY	1	1						
6	1	129675-77580	BRACKET,FUSE	1	1						
7	1	129675-77590	SUPPORT, FUSE BKT	1	1						
8	1	128990-77610	GROMMET	5	5						
9	1	127677-77760	BUSH	1	1						
10	1	129927-77910	BRACKET, CONNECTOR	1	1						
11	1	129927-77920	RELAY	1	1						
12	1	22157-080000	WASHER, 8	5	5						
13	1	26106-060122	BOLT, M6X 12 PLATED	1	1						
14	1	26106-080202	BOLT, M8X 20 PLATED	1	1						
15	1	26106-080202	BOLT, M8X 20 PLATED	3	3						
16	1	26216-080252	STUD, M8X 25	1	1						
17	1	26366-080002	NUT, M8	1	1						
18	1	26557-040122	SCREW, M4X12	4	4						
19	1	26756-050002	NUT, LOCK M5	4	4						

Fig.38. GENERATOR



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

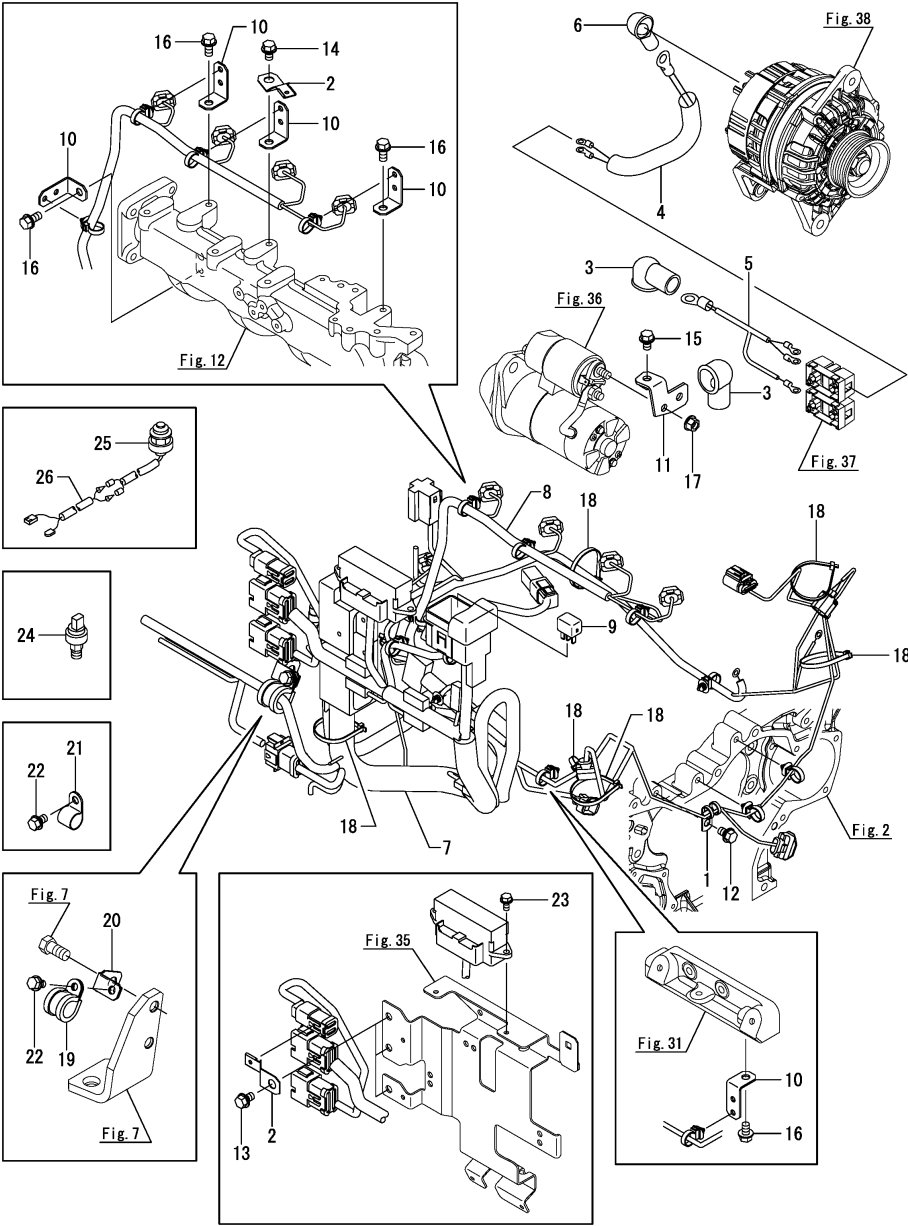
Fig.39. 2ND GENERATOR KIT(OPTIONAL)



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

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

Fig.40. WIRE HARNESS



(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194440-51620	CLAMP	1	1						
2	1	119578-75610	CLIP, CONNECTOR	4	4						
3	1	119773-77030	COVER	2	2						
4	1	129677-77030	HARNESS, ALTERNATOR	1	1						
5	1	129677-77040	HARNESS, ALTERNATOR	1	1						
6	1	129677-77060	COVER, TERMINAL	1	1						
7	1	129677-77110	HARNESS, ECU K CONN	1	1						
8	1	129677-77130	HARNESS, ECU A CONN	1	1						
9	1	127677-77330	RELAY, MAIN	2	2						
10	1	129677-77550	BRACKET,HARNESS	5	5						
11	1	129675-77570	TERMINAL, BATTERY	1	1						
12	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
13	1	26106-080122	BOLT, M8X 12 PLATED	3	3						
14	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
15	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
16	1	26106-080162	BOLT, M8X 16 PLATED	4	4						
17	1	26366-080002	NUT, M8	1	1						
18	1	29621-200001	BAND, TR200	13	13						
19	1	129672-49050	RETAINER,CSW	1	1						
20	1	129677-77710	BRACKET,HARNESS	1	1						
21	1	23297-180081	CLAMP, A18X 8	1	1						
22	1	26106-080122	BOLT, M8X 12 PLATED	2	2						
23	1	26106-060122	BOLT, M6X 12 PLATED	2	2						
24	1	119578-91300	SENSOR, PRESSURE	1	1						1
25	1	120270-77102	SWITCH, SAFETY	1	1						2
26	1	129570-77960	HARNESS, WIRE	1	1						2

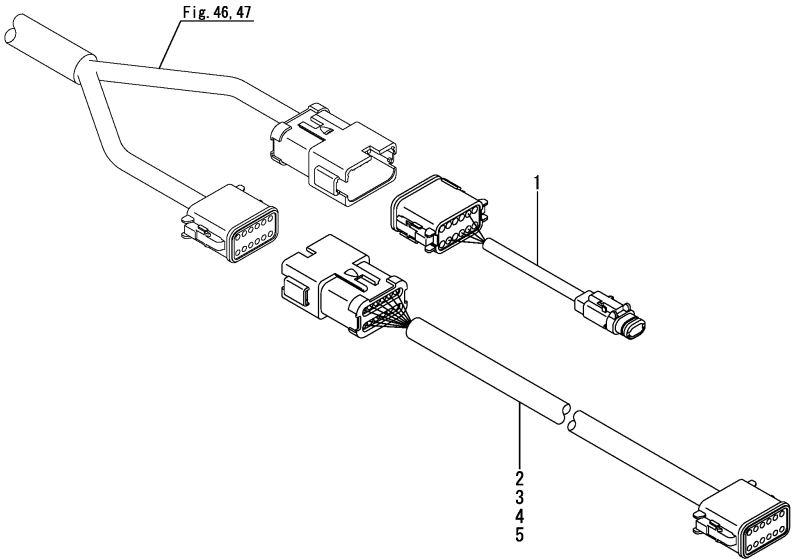
Remarks
(1)For C35 panel (Optional parts.)
(2)Newtral safety switch (Optional parts.)

Fig.41. TERMINAL ADAPTER & EXTENSION HARNESS

(A)=4JH45
(B)=4JH57
(C)=

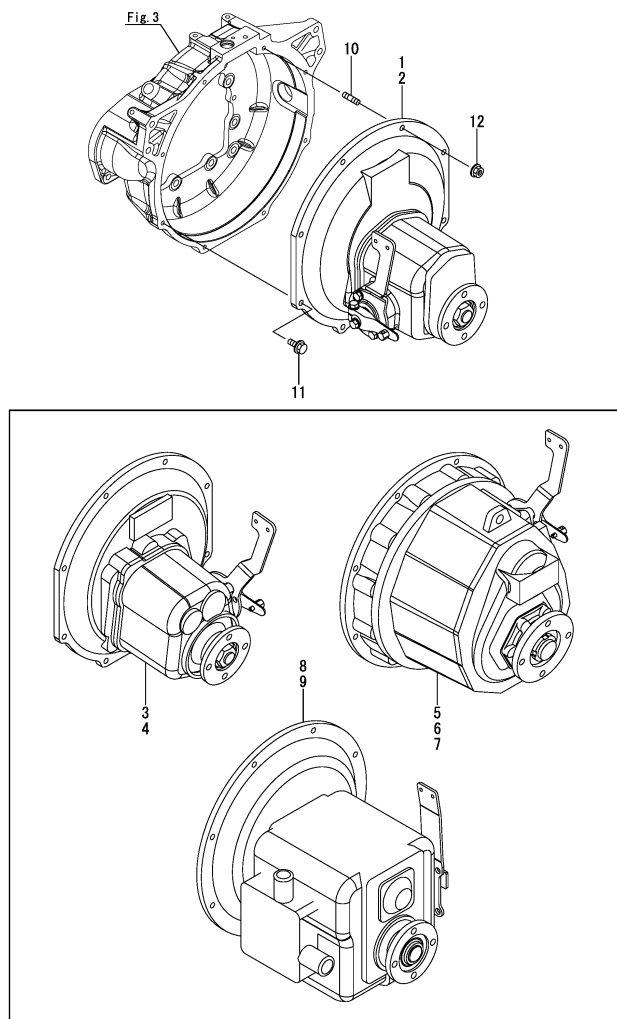
(D)=
(E)=
(F)=

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



Remarks
(1)Optional parts.

Fig.42. CLUTCH(OPTIONAL)



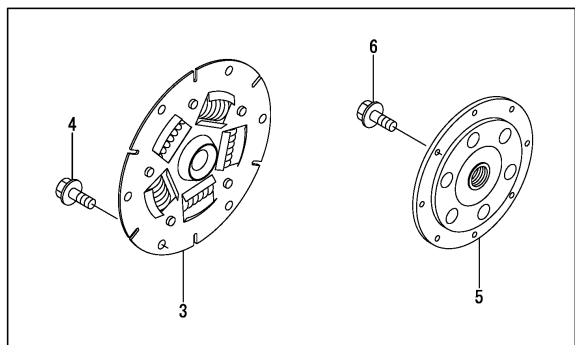
- (1)KM35P (Reduction ratio 2.36)
- (2)KM35P (Reduction ratio 2.61)
- (3)KM35A2 (Reduction ratio 2.33)
- (4)KM35A2 (Reduction ratio 2.64)
- (5)KM4A (Reduction ratio 1.47)
- (6)KM4A (Reduction ratio 2.14)
- (7)KM4A (Reduction ratio 2.63)
- (8)ZF30M (Reduction ratio 2.15)
- (9)ZF30M (Reduction ratio 2.70)
- (A)F SD60 (Not illustrated.)

(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129270-81110	CLUTCH ASSY, 2.36	1	1						1
2	1	129270-81120	CLUTCH ASSY, I=2.61	1	1						2
3	1	129670-81200	CLUTCH ASSY, 2.33	1	1						3
4	1	129670-81210	CLUTCH ASSY, I=2.64	1	1						4
5	1	129670-81040	CLUTCH ASSY, 1.47	1	1						5
6	1	129670-81050	CLUTCH ASSY, 2.14	1	1						6
7	1	129670-81060	CLUTCH ASSY, I=2.63	1	1						7
8	1	129670-81100	CLUTCH ASSY, 2.15	1	1						8
9	1	129670-81110	CLUTCH ASSY, I=2.7	1	1						9
10	1	129670-13600	STUD	2	2						
11	1	26106-080202	BOLT, M8X 20 PLATED	6	6						
12	1	26366-080002	NUT, M8	2	2						
13	1	26106-080182	BOLT, M8X 18 PLATED	8	8						A

Fig.43. DAMPER DISK(OPTIONAL)



No.	Lev.	Parts No.	Description	(A)=4JH45 (B)=4JH57 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	Q'ty (C)	(D)	(E)	(F)		
1	1	177090-03500	DISK, DAMPER D190	1	1						1
2	1	26106-080162	BOLT, M8X 16 PLATED	6	6						1
3	1	177070-03520	DISK, DAMPER D190	1	1						2
4	1	26106-080162	BOLT, M8X 16 PLATED	6	6						2
5	1	129673-81250	DISK, DAMPER	1	1						3
6	1	26106-080252	BOLT, M8X 25 PLATED	6	6						3
7	1	129670-81850	FAN, FLYWHEEL	1	1						2
8	1	26013-080142	BOLT, M8X 14	6	6						2

(1)For KM4A, SD60
(2)For KM35A2, KM35P
(3)For ZF30M

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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(A)=4JH45
(B)=4JH57
(C)=

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

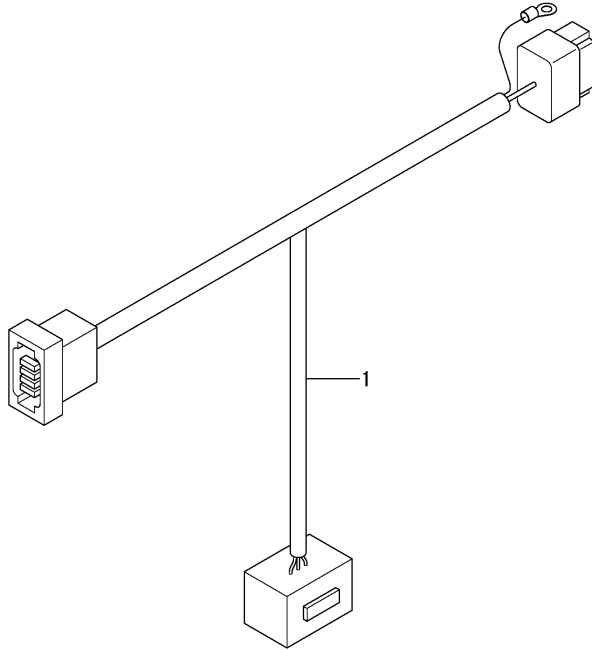
[illegible]

Fig.45. EMERGENCY STOP SWITCH

(A)=4JH45
(B)=4JH57
(C)=

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

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

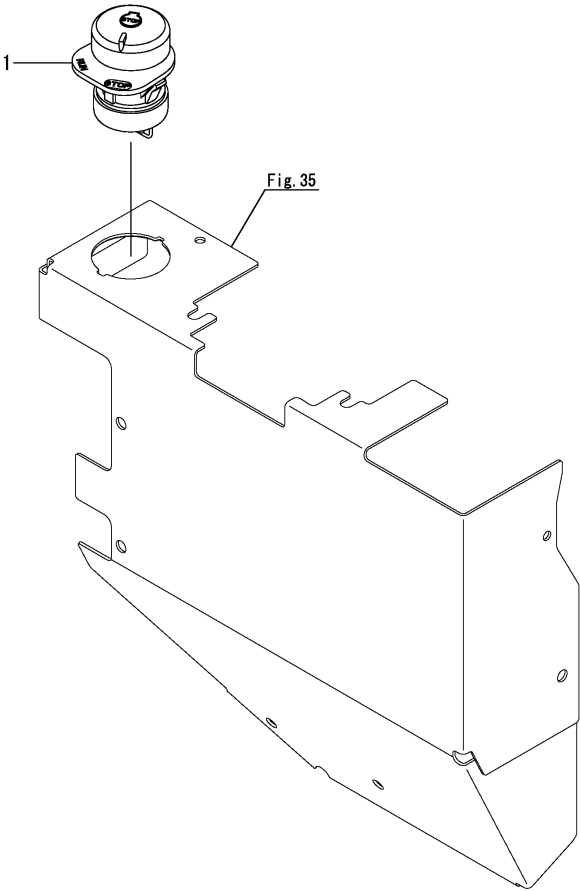


Fig.46. INSTRUMENT PANEL(B25)(MEDALLION)(OPTIONAL)

(A)=4JH45
(B)=4JH57
(C)=

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

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

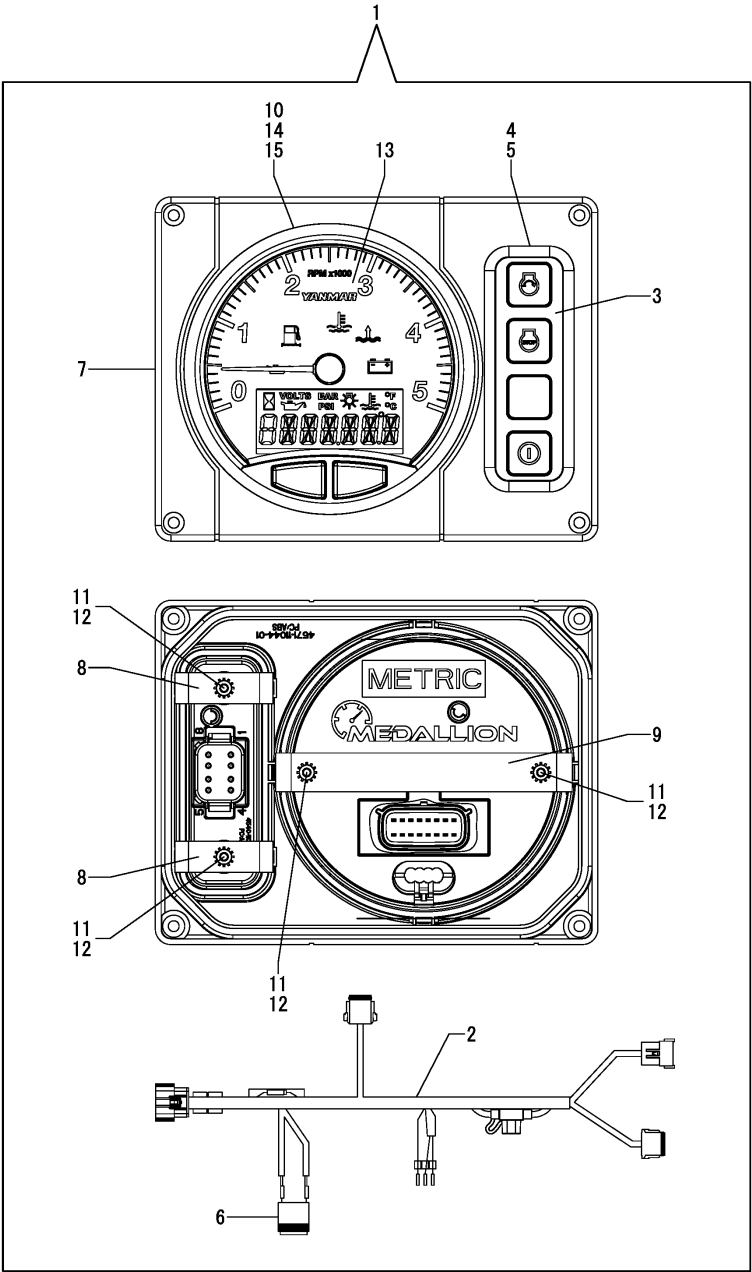
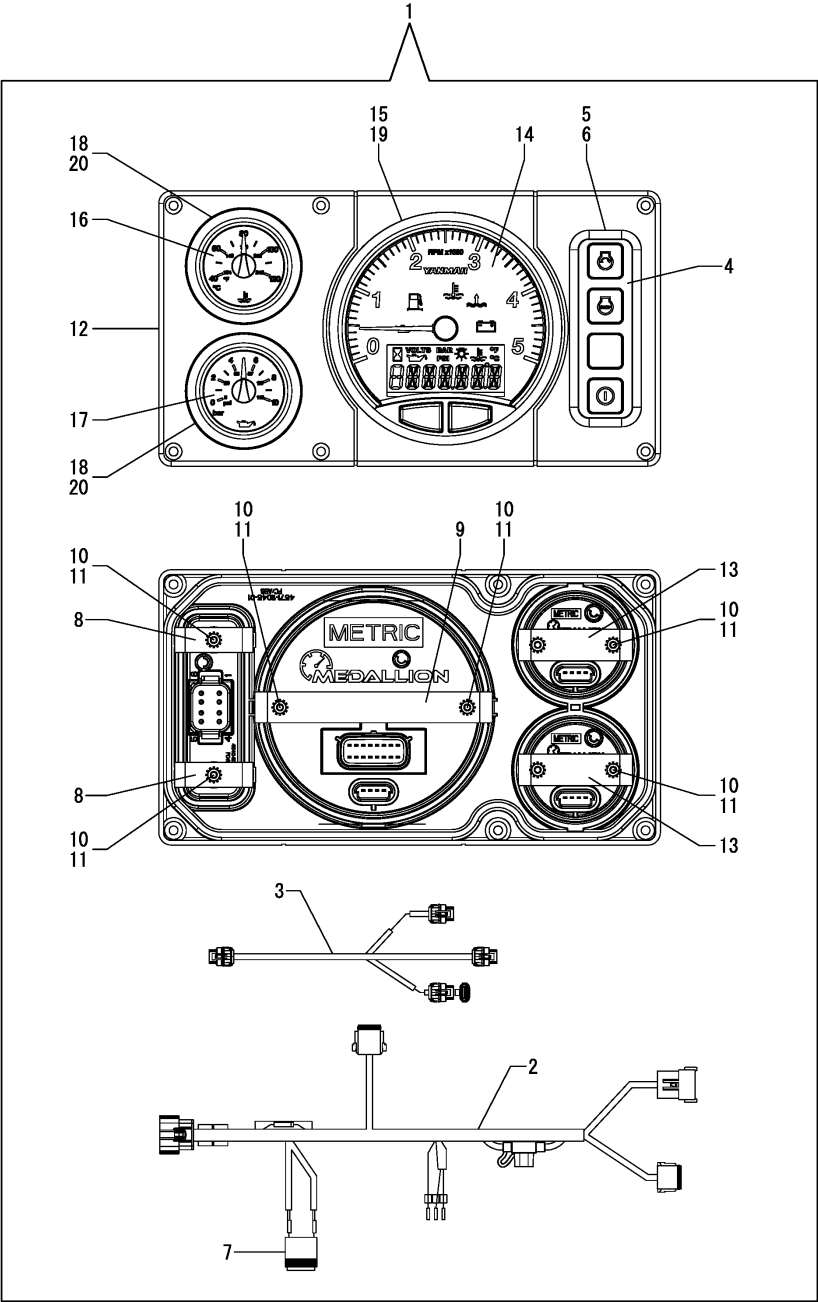


Fig.47. INSTRUMENT PANEL(C35)(MEDALLION)(OPTIONAL)

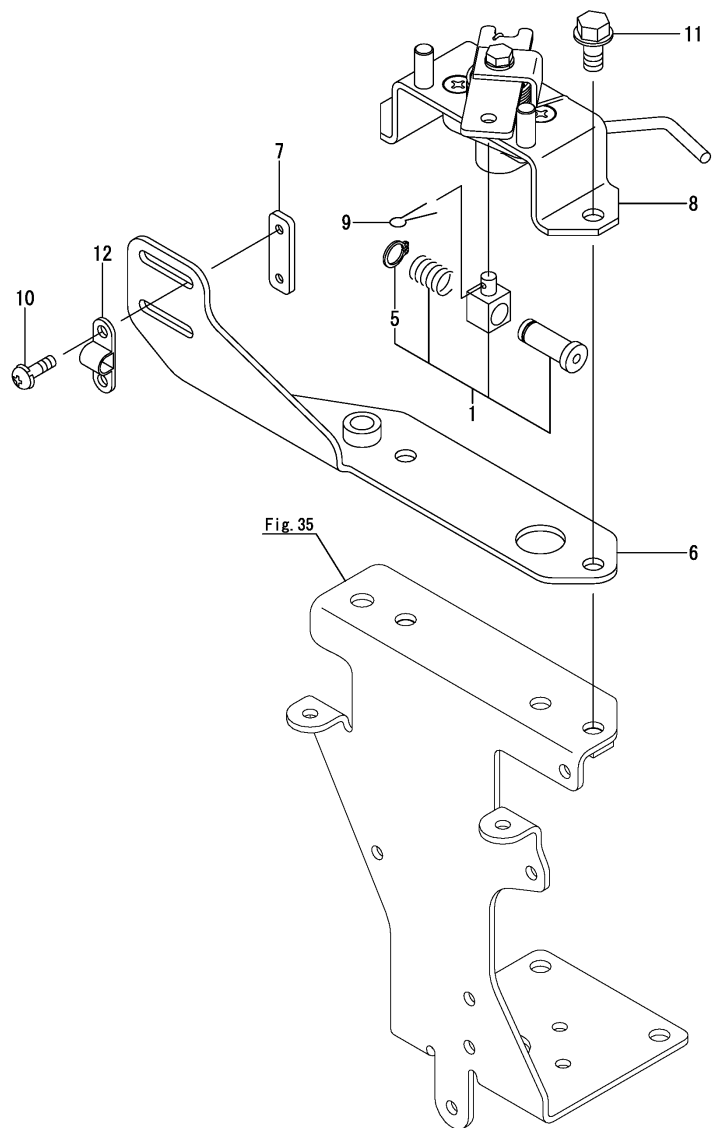
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(B)=4JH57
(C)=

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



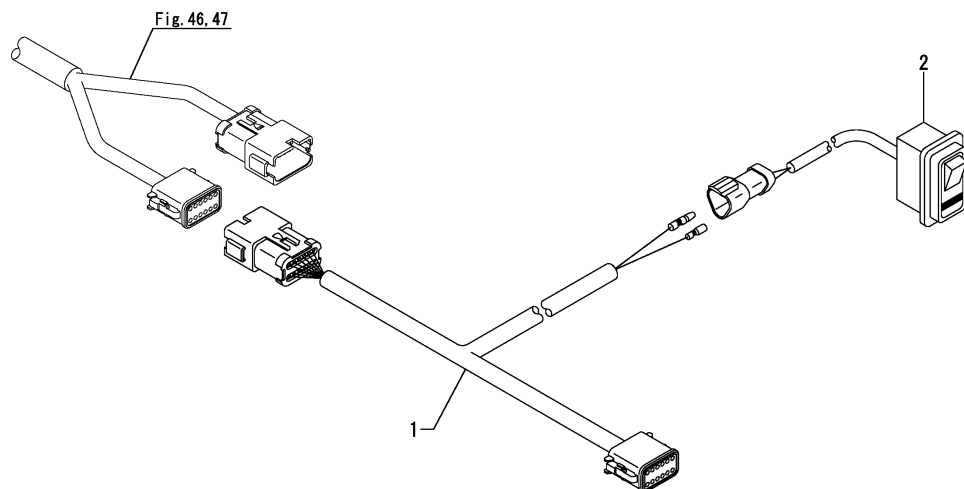
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164100-30310	PANEL ASSY, C35	1	1						
2	2	164100-21110	HARNESS, PANEL EL	1	1						
3	2	164100-21200	HARNESS, GAUGE 2	1	1						
4	2	164100-31110	SWITCH, PANEL EL	1	1						
5	2	164100-31150	GASKET, SWITCH	1	1						
6	2	164100-31900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

Fig.48. THROTTLE SENSOR(FOR B25, C35 PANEL)(OPTIONAL)



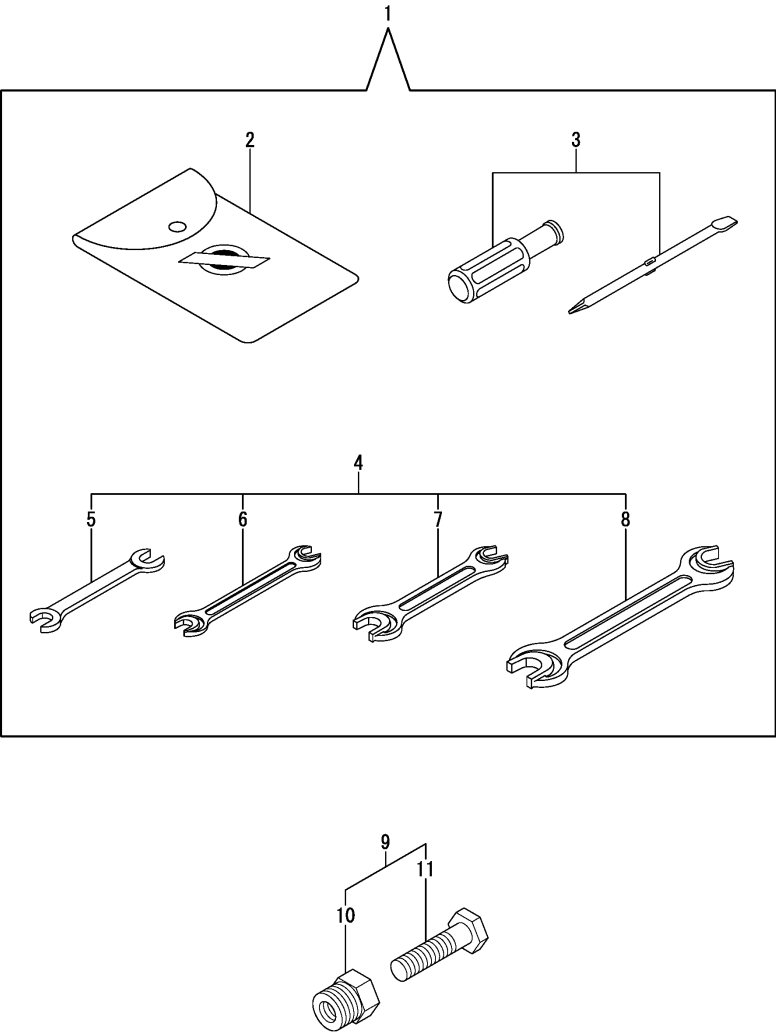
No.	Lev.	Parts No.	Description	(A)=4JH45 (B)=4JH57 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105311-67200	RETAINER ASSY	1	1						
5	2	22242-000100	RING, 10	1	1						
6	1	129677-77760	BRACKET, ACC. SENSOR	1	1						
7	1	121574-86320	RETAINER	1	1						
8	1	129677-91851	SENSOR ASSY, ACCEL	1	1						
9	1	22414-250150	PIN, COTTER 2.5X15	1	1						
10	1	26022-050162	SCREW, M5X16	2	2						
11	1	26106-080162	BOLT, M8X 16 PLATED	2	2						
12	1	41710-000410	CLAMP	1	1						

Fig.49. EMERGENCY STOP SWITCH(FOR B25, C35 PANEL)(OPTIONAL)



No.	Lev.	Parts No.	Description	(A)=4JH45 (B)=4JH57 (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164000-21300	HARNESS, WIRE	1	1						
2	1	164100-31500	PANEL,E-STOP	1	1						

Fig.50. TOOL

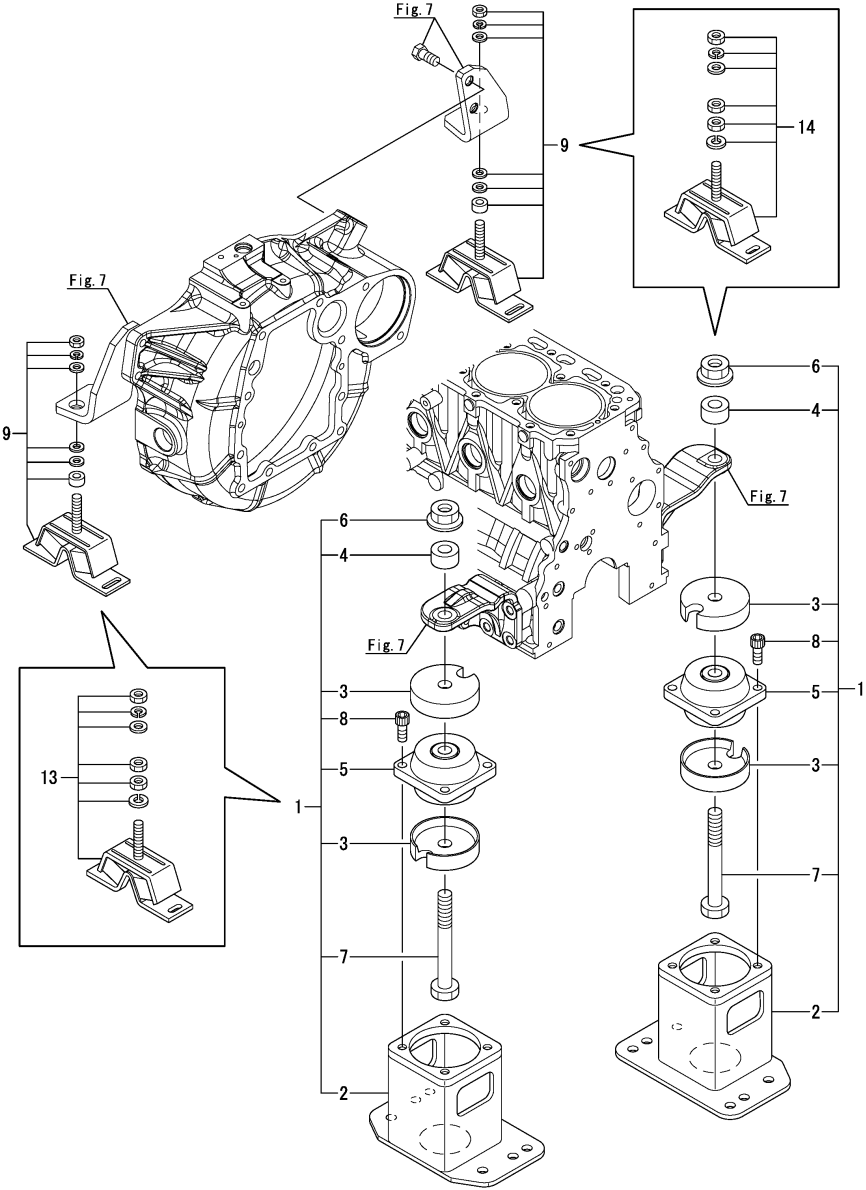


(A)=4JH45
(B)=4JH57
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129270-92100	BOX, TOOL	1	1						
2	2	129270-92600	BAG, TOOL	1	1						
3	2	129270-92650	DRIVER	1	1						
4	2	129270-92690	WRENCH ASSY	1	1						
5	3	129270-92610	WRENCH, 10X13	1	1						
6	3	129270-92620	WRENCH, 12X14	1	1						
7	3	129270-92630	WRENCH, 17X19	1	1						
8	3	129270-92640	WRENCH, 22X24	1	1						
9	1	129671-92110	PULLER ASSY	1	1						
10	2	129671-92120	PULLER	1	1						
11	2	129671-92130	BOLT, M10X40	1	1						

Fig.51. FLEXIBLE MOUNT



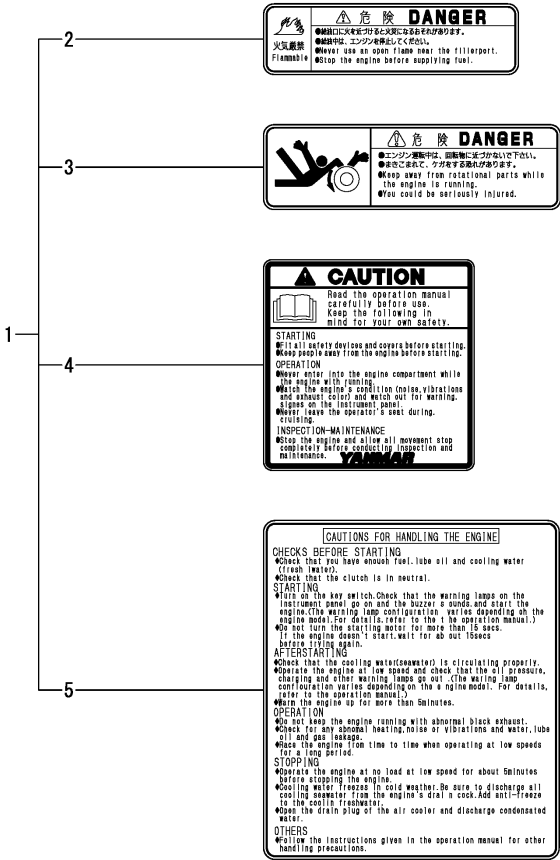
(A)=4JH45
(B)=4JH57
(C)=

(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						1
2	2	129671-08230	SUPPORT,MOUNT	2	2						1
3	2	129671-08240	PLATE, ABSORBER	4	4						1
4	2	129671-08250	SPACER, ABSORBER	2	2						1
5	2	129671-08260	RUBBER, MOUNT	2	2						1
6	2	129671-08270	NUT, M16	2	2						1
7	2	129671-08280	BOLT, M16	2	2						1
8	2	129671-08290	BOLT,10X25	8	8						1
9	1	129670-08390	MOUNT ASSY, FLEXIBLE	2	2						2
13	1	129670-08341	MOUNTING, FLEXIBLE	2	2						3
14	1	129670-08351	MOUNTING, FLEXIBLE	2	2						3

Remarks
(1)For S2 drive
(2)For SD60
(3)For KM4A, KM35A2, KM35P, ZF30M, clutchless

Fig.52. SAFETY LABEL(BUNDLED ITEMS)



(A)=4JH45
(B)=4JH57
(C)=

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

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

Fig.53. REMOTE CONTROL HEAD(OPTIONAL)

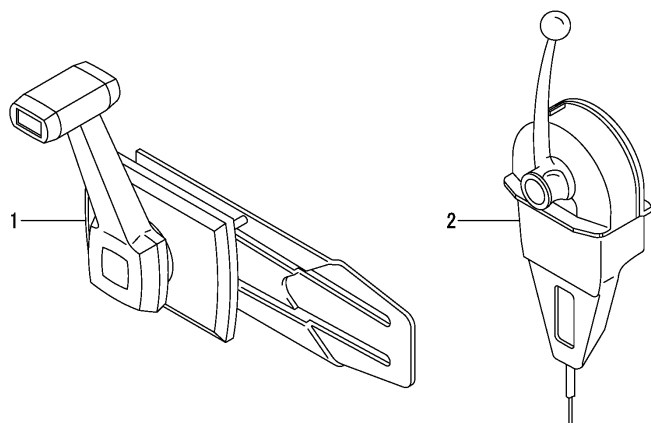
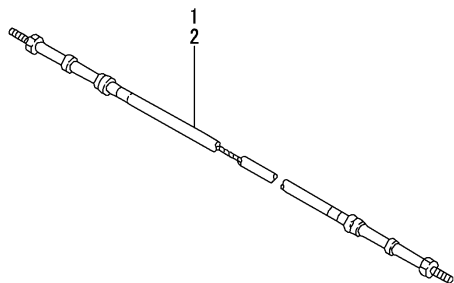
[illegible]

Fig.54. REMOTE CONTROL CABLE(OPTIONAL)

[illegible]

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	33	11
105311-67200	48	1
105430-67110	12	7
119172-55800	33	2
119172-55810	33	9
119175-91050	35	26
119187-39700	32	1
119578-75610	40	2
119578-77080	37	2
119578-77200	37	3
119578-91300	40	24
119609-32040	2	6
119620-01750	3	3
119620-49290	19	40
	24	15
119624-32040	2	7
119640-61400	11	16
119773-42570	21	16
119773-77030	40	3
119802-11260	10	3
119802-11270	10	4
119802-25071	16	29
119802-49730	34	5
119803-21200	17	5
119807-11770	39	4
119865-21600	17	15
119934-01800	2	21
120130-11860	10	40
120270-54410	10	31
120270-77102	40	25
120322-33050	24	11
120650-42350	21	21
120650-42380	21	20
120650-42420	21	18
121111-21501	17	11
121252-39450	19	46
121400-11340	10	25
121450-01560	2	2
	21	1
121550-23200	18	16
121574-86320	48	7
121575-49310	39	5
121850-21680	17	10
121857-55630	33	3
121857-55710	33	6
121857-55730	33	7
121857-55740	33	8
121857-55750	33	4
121857-55760	33	5
122780-59100	31	9

Parts No.	Fig. No.	Ref. No.
123325-49421	15	5
	21	12
123682-07852	6	1
123907-03100	11	5
123907-03110	11	6
123907-03120	11	7
123907-03140	11	8
124060-01050	1	12
124160-01751	2	4
	11	1
124160-01910	1	13
		14
124160-11360	11	21
124195-77770	36	23
124240-01871	2	10
		14
		22
124398-49700	5	2
124460-11340	10	26
124976-34850	1	39
127605-11370	11	13
127610-39350	32	2
127677-77060	37	1
127677-77330	40	9
127677-77760	37	9
127687-39360	32	3
128170-86501	53	1
128377-07150	6	4
	13	2
128377-07190	52	1
128377-07350	8	2
128377-07400	52	2
128377-07420	52	3
128377-07450	52	4
128377-07460	52	5
128397-44500	24	27
128397-44510	24	29
128790-77580	39	10
128990-07270	6	5
128990-07900	6	2
128990-34900	6	7
128990-49400	29	4
128990-77250	38	1
	39	7
128990-77430	13	6
	37	4
128990-77441	8	4
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	35	22
128990-77510	8	9

Parts No.	Fig. No.	Ref. No.
128990-77510	9	9
128990-77600	8	5
	9	4
	35	23
128990-77610	37	8
129001-01250	1	5
129001-02931	1	30
129004-03010	11	3
129004-11650	10	6
129005-11100	10	21
129006-35100	19	24
129006-44480	19	30
129008-77800	10	38
129051-49310	29	1
129054-42320	22	3
129100-01580	2	3
	3	1
		7
	17	2
129100-01640	3	8
129100-11112	10	22
129100-23910	18	19
129150-01200	1	28
129150-01881	21	2
129150-02020	1	7
129150-02450	16	4
129150-02871	1	33
129150-02931	1	25
129150-02941	1	36
129150-03070	11	4
129150-11230	10	7
129150-11280	10	5
129150-11370	10	11
129150-11750	10	9
129150-11810	10	41
129150-14200	16	1
129150-14400	16	2
129150-23601	18	17
129150-23611	18	20
129150-35042	19	15
129150-35111	19	27
129150-35153	19	29
129150-49811	22	13
129150-77511	12	11
129202-22300	18	9
129263-49350	22	4
129270-44501	24	28
129270-81110	42	1
129270-81120	42	2
129270-92100	50	1

Parts No.	Fig. No.	Ref. No.
129270-92600	50	2
129270-92610	50	5
129270-92620	50	6
129270-92630	50	7
129270-92640	50	8
129270-92650	50	3
129270-92690	50	4
129271-12311	13	3
129271-12810	13	5
129271-34850	20	1
129271-34890	20	2
129271-42350	22	17
129271-42502	21	3
129271-42510	21	14
129271-42700	21	22
129271-49110	25	2
	26	2
		7
	27	2
	28	1
129271-77251	39	9
129271-77641	38	7
	39	14
129400-01730	4	5
129417-33111	19	23
129417-35150	19	26
129466-49300	19	44
129470-13541	15	1
129470-49540	22	10
129470-49801	22	12
129470-86500	54	2
129472-13560	15	2
129472-18090	14	2
	15	3
129486-01670	3	11
129486-12581	12	10
129486-32020	19	13
129486-42050	22	6
129508-33010	19	21
129508-33050	19	22
129508-49030	19	36
129550-13110	24	1
129570-77960	40	26
129601-11241	10	1
129601-11251	10	2
129604-21000	17	1
129608-77010	36	1
129608-77110	36	4
129657-49020	19	31
129657-49180	19	34

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Parts No.	Fig. No.	Ref. No.
129670-01700	4	1
129670-07230	24	3
129670-08220	7	2
129670-08231	7	3
129670-08241	7	4
129670-08341	51	13
129670-08351	51	14
129670-08390	51	9
129670-12290	13	1
129670-12360	13	4
129670-12411	13	9
129670-13561	14	1
129670-13600	24	4
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129670-35090	19	16
129670-39600	19	47
129670-42520	21	4
129670-42531	21	5
129670-42540	21	6
129670-42550	21	7
129670-42560	21	8
129670-42570	21	9
129670-42580	21	10
129670-44150	24	9
129670-44430	24	10
129670-44450	24	13
129670-44460	24	14
129670-44570	24	30
129670-44911	24	2
129670-49020	25	1
	26	1
129670-49090	27	1
129670-49150	14	3
129670-49220	27	4
129670-49230	27	10
129670-49240	27	11
129670-49250	26	9
129670-49270	26	10
129670-49280	15	4
129670-49360	25	4
	26	4
	27	5
129670-49390	29	3
129670-49410	27	6
129670-49500	14	4
	15	6
	25	5
	26	5
		11
	27	7

Parts No.	Fig. No.	Ref. No.
129670-49500	28	4
129670-55700	32	11
129670-81040	42	5
129670-81050	42	6
129670-81060	42	7
129670-81100	42	8
129670-81110	42	9
129670-81200	42	3
129670-81210	42	4
129670-81850	43	7
129671-08211	7	1
129671-08220	51	1
129671-08230	51	2
129671-08240	51	3
129671-08250	51	4
129671-08260	51	5
129671-08270	51	6
129671-08280	51	7
129671-08290	51	8
129671-49110	26	8
129671-49210	28	2
129671-49220	28	3
129671-92110	50	9
129671-92120	50	10
129671-92130	50	11
129672-49050	40	19
129673-44090	24	7
129673-44131	24	8
129673-81250	43	5
129674-75010	35	1
129675-01620	3	2
129675-03090	5	1
129675-11350	11	2
129675-11700	10	12
129675-21580	17	12
129675-21800	23	1
129675-21810	23	2
129675-22000	18	1
129675-42280	23	3
129675-49120	25	3
	26	3
	27	3
129675-53100	31	1
129675-75010	35	9
129675-77560	37	5
129675-77570	40	11
129675-77580	37	6
129675-77590	37	7
129677-01500	2	1
129677-01550	2	19

Parts No.	Fig. No.	Ref. No.
129677-07800	6	8
129677-07810	6	9
129677-09000	8	1
129677-09130	39	1
129677-09201	9	1
129677-09411	8	6
129677-09431	8	7
129677-09451	9	5
129677-09461	9	6
129677-09471	9	7
129677-09481	8	8
	9	8
129677-09510	39	2
129677-09600	39	3
129677-12101	12	1
129677-12130	12	6
129677-21600	17	8
129677-42000	22	1
129677-42310	22	16
129677-49320	29	2
129677-55600	32	8
129677-55610	32	9
129677-55850	33	10
129677-57201	31	7
129677-59010	34	14
129677-59090	34	4
129677-59220	32	12
	34	7
129677-59230	34	8
129677-59240	32	13
129677-59270	39	6
129677-59300	32	14
129677-59350	32	17
129677-59400	34	18
129677-59500	34	1
129677-59700	31	11
129677-59810	31	13
129677-59820	31	14
129677-59830	31	15
129677-59840	31	16
129677-77030	40	4
129677-77040	40	5
129677-77060	40	6
129677-77110	40	7
129677-77130	40	8
129677-77250	39	8
129677-77440	38	6
129677-77550	40	10
129677-77610	39	11
129677-77620	39	12

Parts No.	Fig. No.	Ref. No.
129677-77630	39	13
129677-77710	40	20
129677-77720	35	18
129677-77740	35	19
129677-77760	48	6
129677-77770	35	20
129677-77790	35	21
129677-91101	45	1
129677-91851	48	8
129685-01350	1	29
129693-44300	24	26
129698-77020	36	2
129698-77101	36	3
129698-77120	36	5
129698-77130	36	6
129698-77140	36	7
129698-77150	36	8
129698-77161	36	9
129698-77170	36	10
129698-77180	36	11
129698-77190	36	12
129698-77200	36	13
129698-77210	36	14
129698-77220	36	15
129698-77230	36	16
129698-77240	36	17
129698-77250	36	18
129698-77260	36	19
129698-77270	36	21
129698-77280	36	22
129795-01780	3	10
129795-01950	2	5
129795-02412	1	10
129795-11120	10	23
129795-11180	10	24
129795-21661	17	9
129795-49551	22	11
129900-07900	10	36
129916-49740	22	5
129927-44900	22	7
129927-77910	37	10
129927-77920	37	11
129978-11871	10	29
129A00-11330	11	12
129A00-11900	10	30
129A00-12703	11	14
129A00-12780	11	15
129A00-14100	16	7
129A00-14700	16	9
129A00-14710	16	12

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Parts No.	Fig. No.	Ref. No.
129A00-21710	3	13
129A00-22500	18	3
129A00-25050	16	14
129A00-25060	16	22
129A00-25080	16	30
129A00-25110	16	15
129A00-25120	16	23
129A00-25200	16	26
129A00-25210	16	27
129A00-25900	16	19
129A00-51000	30	1
129A00-51100	30	2
129A00-51110	30	3
129A00-51120	30	4
129A00-51130	30	5
129A00-51200	30	6
129A00-51900	30	7
129A00-53200	31	2
129A00-55800	32	10
129A00-57100	31	4
129A00-57200	31	5
129A00-57210	31	6
129C00-01560	1	1
129C00-11310	11	11
129C00-14580	16	3
129C00-32000	19	1
129C00-57000	31	3
129C00-77820	10	39
129C26-01890	2	11
		15
164000-21300	49	1
164000-22210	41	2
164000-22220	41	3
164000-22230	41	4
164000-22240	41	5
164000-29000	41	1
164100-21110	46	2
	47	2
164100-21200	47	3
164100-30110	46	1
164100-30310	47	1
164100-31110	46	3
	47	4
164100-31150	46	4
	47	5
164100-31500	49	2
164100-31900	46	5
	47	6
164100-36100	46	6
	47	7

Parts No.	Fig. No.	Ref. No.
164100-39100	46	7
164100-39120	46	8
	47	8
164100-39131	46	9
	47	9
164100-39150	46	10
164100-39180	46	11
	47	10
164100-39190	46	12
	47	11
164100-39200	47	12
164100-39230	47	13
164100-53110	46	13
	47	14
164100-53150	46	14
	47	15
164100-53200	47	16
164100-53210	47	17
164100-53250	47	18
164100-53900	46	15
	47	19
164100-53920	47	20
171008-03990	19	32
		37
171051-01921	1	6
177070-03520	43	3
177073-02431	6	10
177088-02430	6	3
		11
177090-03500	43	1
194256-04820	33	1
194440-51620	32	7
	40	1
196420-02790	44	1
196630-12980	6	6
22137-080000	15	7
	38	8
		9
	39	15
22157-080000	37	12
22190-080002	2	16
		23
		24
22190-120002	22	8
	33	12
22190-140002	20	3
22217-050000	38	2
	39	16
22217-080000	38	3
	39	17

Parts No.	Fig. No.	Ref. No.
22217-100000	20	4
22217-180000	16	20
22242-000100	48	5
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22351-060012	10	32
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