

0CF10-M57301EN

Introduction

1. This parts catalog for 3JH3Z1 & 3JH3Z2 is as well as the new one on the 3JH3 & 3JH3Z.

	Parts catalog	Date of issue	Remarks
First edition	000Y00F5730	Mar.,1999	No need
1st edition(supplement)	000Y00F5731	Nov.,2000	

2. This parts catalog does not cover the out- drive.Please refer to the separate parts catalog,(No.000Y00F2922),which covers the out- drive.

3. Standard finish color. : Metallic eole silver
 Parts No. 977620— 10070 1 0 (Paked in a can)
 977620— 40070 4 0 (Paked in a can)
 TOR- 90090003 Spray(1 piece)

4. This parts catalog dose not contain the technical date needed for servicing.

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

6. The essential points list.

Name of Diesel engine	3JH3Z1	3JH3Z2	3JH3Z	3JH3
Type	Vertical, water- cooled, four- cycle diesel engine			
No.of cylinder × Internal diameter(mm) × Stroke length(mm)	3 × 84 × 90			
Continuous rated output kw / min ⁻¹ (ps / rpm)	27.2 / 3683 (37.0 / 3683)	20.6 / 3295 (28.0 / 3295)	25.7 / 3489 (35.0 / 3489)	25.0 / 3489 (34.0 / 3489)
Combustion system	Direct injection			
Starting system	Electric starting 12V - 1.4kw			
Power take- off position	Flywheel side			
Cooling system	High temperature(Filterd fersh water) cooling			
Lubricating system	Fully sealed, forced- feed lubrication			
Application drive	SZ80	SZ60	SZ80	YX - 10 - 1
Redution ratio	-	-	-	2.54 / 2.54 3.13 / 3.13 3.50 / 3.50

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

8. Be sure to use only genuine Yanmar part for repairs. If other parts are used, the life of the engine may be shortened.

Contents

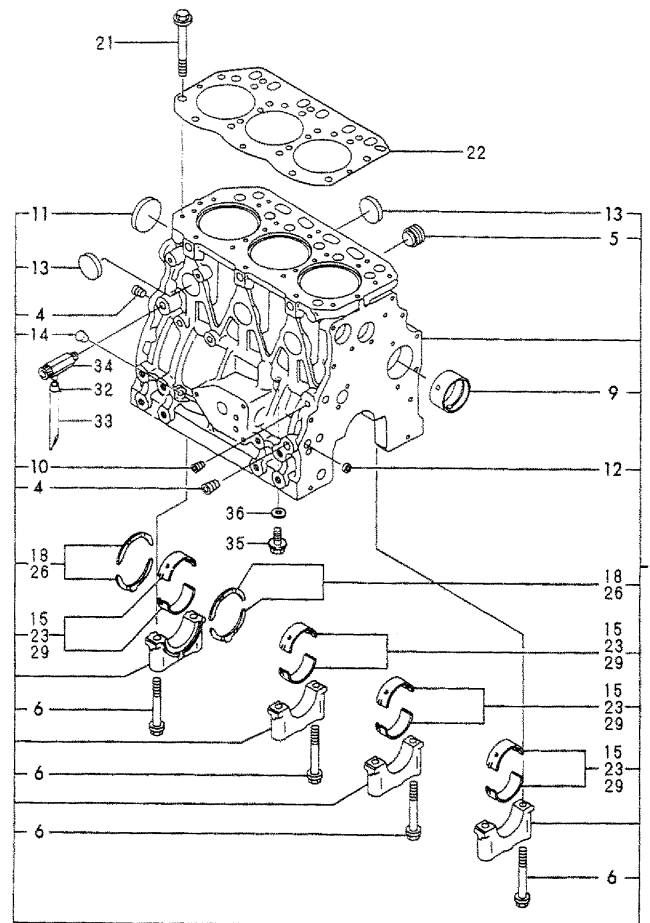
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Fig. No.	Fig. Name
3JH3(Z/Z1/Z2)	
1.	CYLINDER BLOCK
2.	GEAR HOUSING
3.	FLYWHEEL HOUSING&LUB. OIL SUMP
4.	LABEL
5.	MOUNTING FOOT
6.	MOUNTING FOOT(3JH3)
7.	CYLINDER HEAD
8.	BONNET & BREATHER
9.	SUCTION MANIFOLD
10.	MIXING ELBOW
11.	MIXING ELBOW(3JH3)
12.	CAMSHAFT & DRIVING GEAR
13.	CRANKSHAFT & FLYWHEEL
14.	PISTON & CONNECTING ROD
15.	LUB. OIL SYSTEM
16.	LUB.OIL COOLER & LUB.OIL PIPE
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18.	BILGE PUMP(DX,OPTIONAL)
19.	COOLING WATER SYSTEM(SEA WATER)
20.	COOLING FRESH WATER SYSTEM
21.	COOLING FRESH WATER COOLER
22.	COOLING SEA WATER STRAINER(OPTIONAL)
23.	FUEL INJECTION PUMP
24.	GOVERNOR

Fig. No.	Fig. Name
25.	FUEL FEED PUMP & TIMER
26.	FUEL INJECTION VALVE
27.	FUEL INJECTION PIPE
28.	FUEL PIPE & FUEL STRAINER
29.	OIL/WATER SEPARATOR
30.	ENGINE STOP DEVICE
31.	CABLE BRACKET
32.	CLUTCH
33.	STARTING MOTOR
34.	GENERATOR(HITACHI:TO JUNE, 2012)
40.	(34A)GENERATOR(DENSO:FROM JULY, 2012)
35.	WIRE HARNESS & SENSOR
36.	INSTRUMENT PANEL(B TYPE)
37.	INSTRUMENT PANEL(A TYPE)(OPTIONAL)
38.	TOOL
39.	SPARE PART(OPTIONAL)

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Fig. 1 シリンダブロック
CYLINDER BLOCK

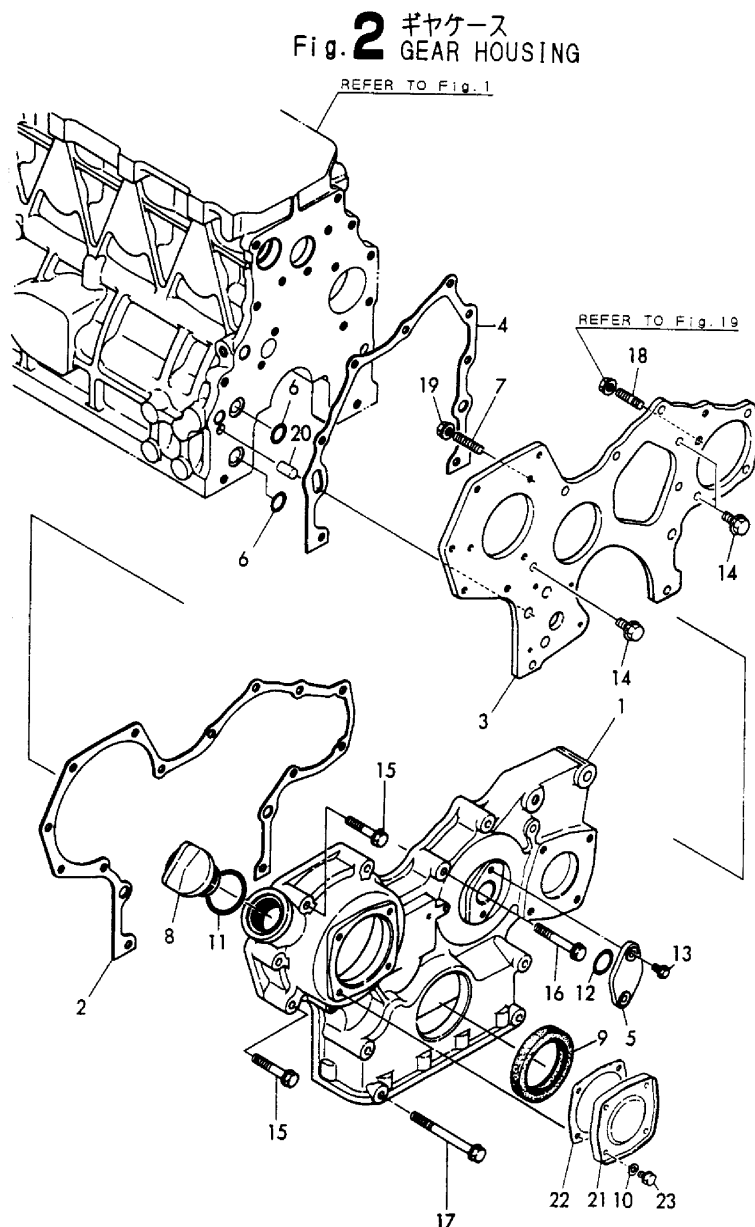


No.	Lev.	Parts No.	Description	Q'ty					I	R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	729270-01560	BLOCK ASSY, CYLINDER	1	1	1	1			
4	3	124160-01910	PLUG, PT1/4	3	3	3	3			
5	3	171051-01921	PLUG, NPTF1	1	1	1	1			
6	3	129150-02020	BOLT, METAL CAP	8	8	8	8			
9	3	129795-02411	BUSH, CAMSHAFT	1	1	1	1			
10	3	23876-010000	PLUG, R01	1	1	1	1			
11	3	27231-500000	PLUG 50	1	1					
11-1	3	129001-01250	PLUG, 50	1	1	1	1			N
(A=*1999.11)		(B=*1999.11)								
12	3	27241-120000	PLUG, 12	2	2	2	2			
13	3	27241-300000	PLUG 30	6	6	6	6			
14	2	27225-100140	PLUG, 10X14	1	1	1	1			
15	2	129001-02800	BEARING, MAIN	4	4					
15-1	2	129690-02800	BEARING, MAIN	4	4	4	4			N
(A=*2000.10)		(B=*2000.10)								
18	2	129150-02930	BEARING, THRUST	2	2	2	2			
21	1	129150-01200	BOLT, HEAD	14	14	14	14			
22	1	129002-01331	GASKET, HEAD	1	1	1	1			
23	1	129150-02870	BEARING, 0.25 US	4	4	4	4			1
23-1	1	129690-02870	BEARING, 0.25 US	4	4	4	4			N 1
(A=*2000.10)		(B=*2000.10)		(C=*2000.10)		(D=*2000.10)				
26	1	129150-02940	BEARING, THRUST 0.25	1	1	1	1			2
29	1	129001-02930	BEARING, MAIN	4	4	4	4			3
32	1	124460-77680	RETAINER	1	1	1	1			
33	1	23061-070300	PIPE, 7X 300	1	1	1	1			
34	1	128371-01800	COCK ASSY, 1/4	1	1	1	1			
35	1	26106-080122	BOLT, M8X 12 PLATED	3	3					Z
(A=*2000.10)		(B=*2000.10)								
36	1	23414-080000	GASKET, 8X1.0	3	3					Z
(A=*2000.10)		(B=*2000.10)								

Remarks
(1)UNDER SIZED (U.S.=0.25)PART.
(2)OVER SIZED (O.S.=0.25)PART.
(3)129001-02800, REPAIR PART.

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-01501	CASE, GEAR	1	1	1	1				
2	1	129470-01510	GASKET, GEAR CASE	1	1	1	1				
3	1	129100-01520	FLANGE, GEAR CASE	1	1	1	1				
4	1	129470-01531	GASKET	1	1	1	1				
5	1	121023-01550	COVER	1	1	1	1				
6	1	129470-01550	O-RING	2	2	2	2				
7	1	121450-01560	STUD, M8X22	3	3	3	3				
8	1	124160-01751	COVER, FILLER	1	1	1	1				
9	1	129795-01800	SEAL, OIL	1	1	1	1				
10	1	23414-080000	GASKET, 8X1.0	4	4	4	4				
11	1	24311-000320	O-RING, 1AP32.0	1	1	1	1				
12	1	24341-000260	O-RING, 1AS26.0	1	1	1	1				
13	1	26106-060162	BOLT, M6X 16 PLATED	2	2	2	2				
14	1	26106-080162	BOLT, M8X 16 PLATED	3	3	3	3				
15	1	26106-080452	BOLT, M8X 45 PLATED	6	6	6	6				
16	1	26106-080552	BOLT, M8X 55 PLATED	3	3	3	3				
17	1	26106-080852	BOLT, M8X 85 PLATED	4	4	4	4				
18	1	26216-080182	STUD, M8X 18	1	1	1	1				
19	1	26366-080002	NUT, M8	3	3	3	3				
20	1	129795-01950	PIPE, KNOCK L=18	2	2	2	2				
21	1	129150-01870	COVER	1	1	1	1				
22	1	129150-01881	GASKET	1	1	1	1				
22-1	1	129C26-01890	GASKET, HO-P	1	1	1	1				R
	(A=EXXXXX)	(B=EXXXXX)	(C=EXXXXX)	(D=EXXXXX)							
23	1	26106-080122	BOLT, M8X 12 PLATED	4	4	4	4				

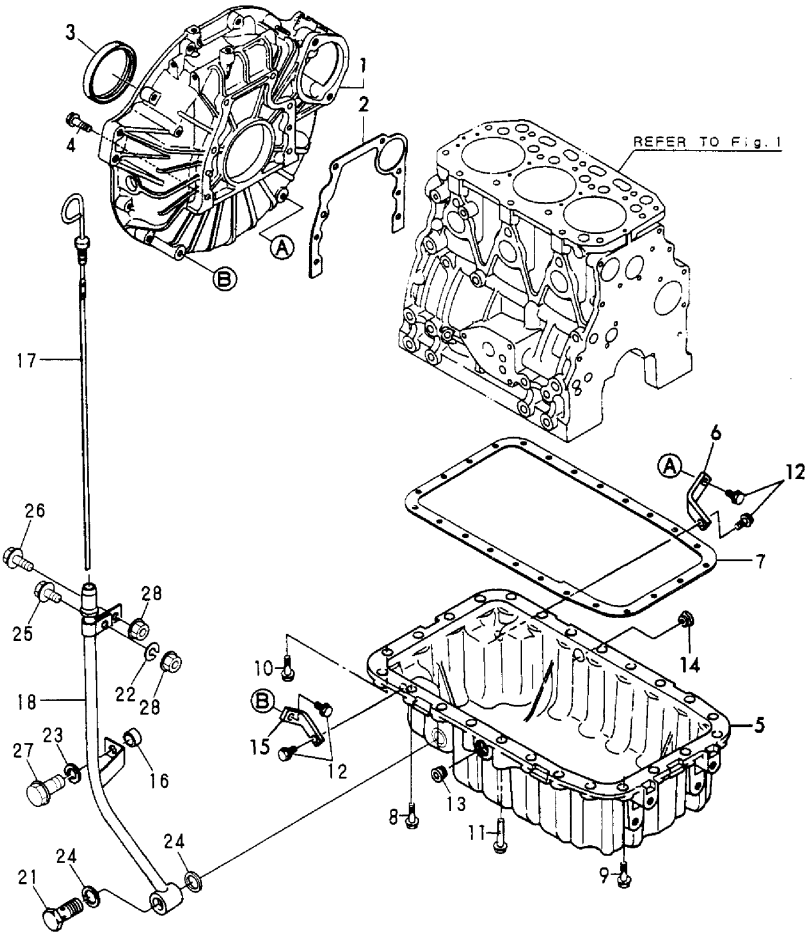
Fig.3. FLYWHEEL HOUSING&LUB. OIL SUMP

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

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Fig.3 フライホイールハウジング&オイルパン
FLYWHEEL HOUSING & LUB.OIL SUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-01601	HOUSING, FLYWHEEL	1	1	1	1				
2	1	129470-01620	GASKET	1	1	1	1				
3	1	129795-01780	SEAL, OIL	1	1	1	1				
4	1	26106-100302	BOLT, M10X 30 PLATED	6	6	6	6				
5	1	129170-01701	SUMP, OIL	1	1	1	1				
6	1	129190-01710	BRACKET	1	1	1	1				
7	1	129195-01750	GASKET, OIL SUMP	1	1	1	1				
8	1	26106-080252	BOLT, M8X 25 PLATED	10	10	10	10				
9	1	26106-080252	BOLT, M8X 25 PLATED	6	6	6	6				
10	1	26106-080252	BOLT, M8X 25 PLATED	4	4	4	4				
11	1	26106-080402	BOLT, M8X 40 PLATED	4	4	4	4				
12	1	26106-100252	BOLT, M10X 25 PLATED	4	4	4	4				
13	1	23876-030000	PLUG, R03	1	1	1	1				
14	1	23876-030000	PLUG, R03	1	1	1	1				
15	1	129190-01720	BRACKET	1	1	1	1				
16	1	129301-34830	SPACER	1	1	1	1				
17	1	129473-34850	DIPSTICK, OIL	1	1	1	1				
18	1	129295-34880	GUIDE ASSY, DIPSTICK	1	1	1	1				
21	1	104214-39720	BOLT	1	1	1	1				
22	1	22217-080000	WASHER, SPRING 8	1	1	1	1				
23	1	22217-100000	WASHER, SPRING 10	1	1	1	1				
24	1	23414-160000	GASKET, 16X1.0	2	2	2	2				
25	1	26106-080122	BOLT, M8X 12 PLATED	1	1	1	1				
26	1	26106-080162	BOLT, M8X 16 PLATED	1	1	1	1				
27	1	26106-100252	BOLT, M10X 25 PLATED	1	1						
27-1	1	26106-100222	BOLT, M10X 22 PLATED	1	1	1	1				N
(A=*2000.07) (B=*2000.07)											
28	1	26366-080002	NUT, M8	2	2	2	2				

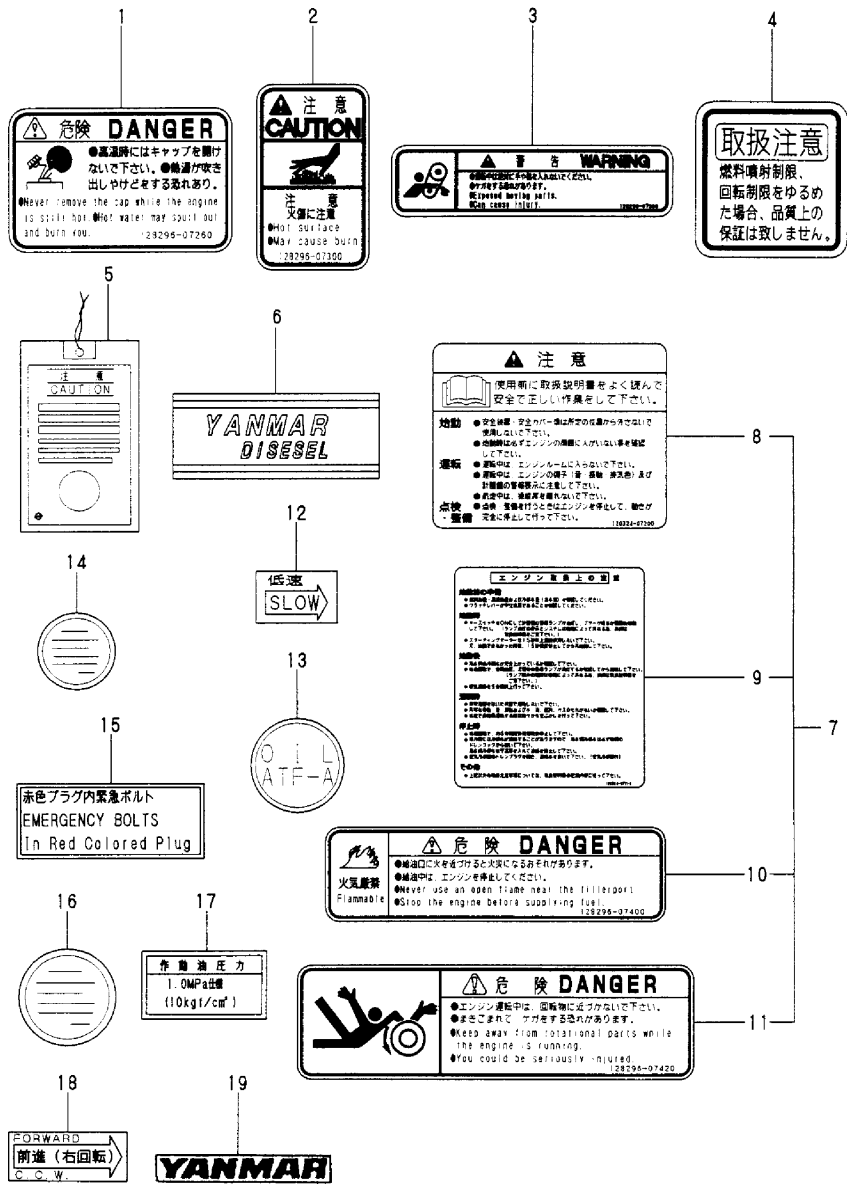
Fig.4. LABEL

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

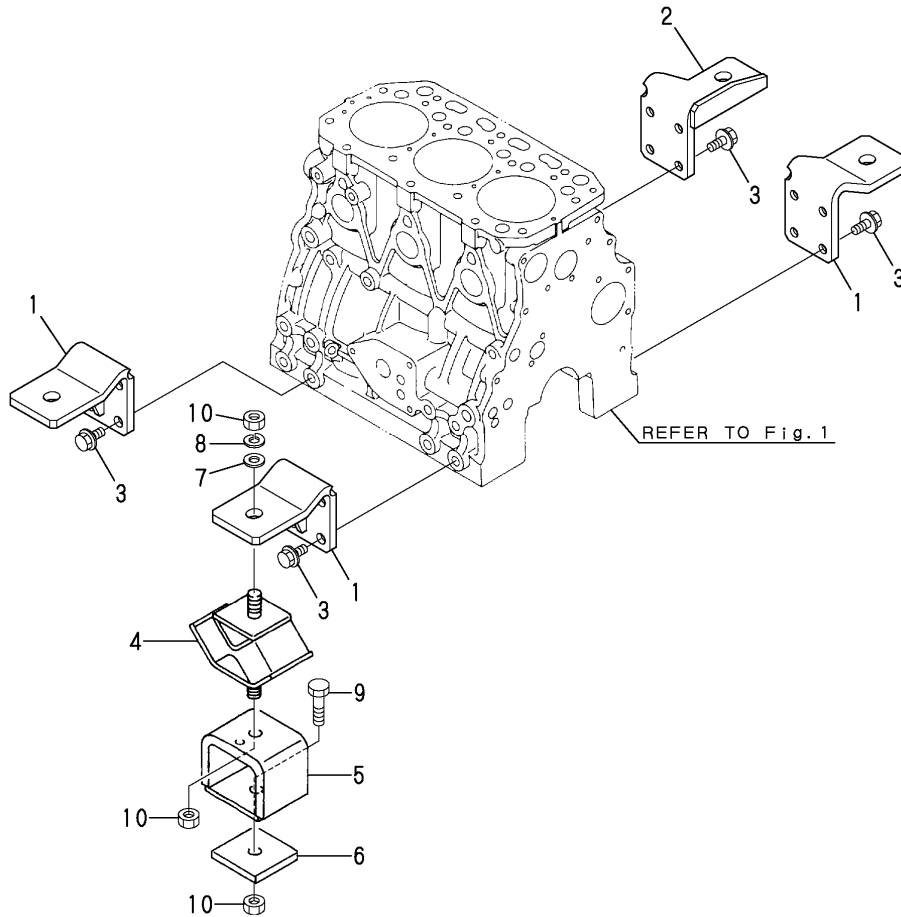
(D)=3JH3
(E)=
(F)=

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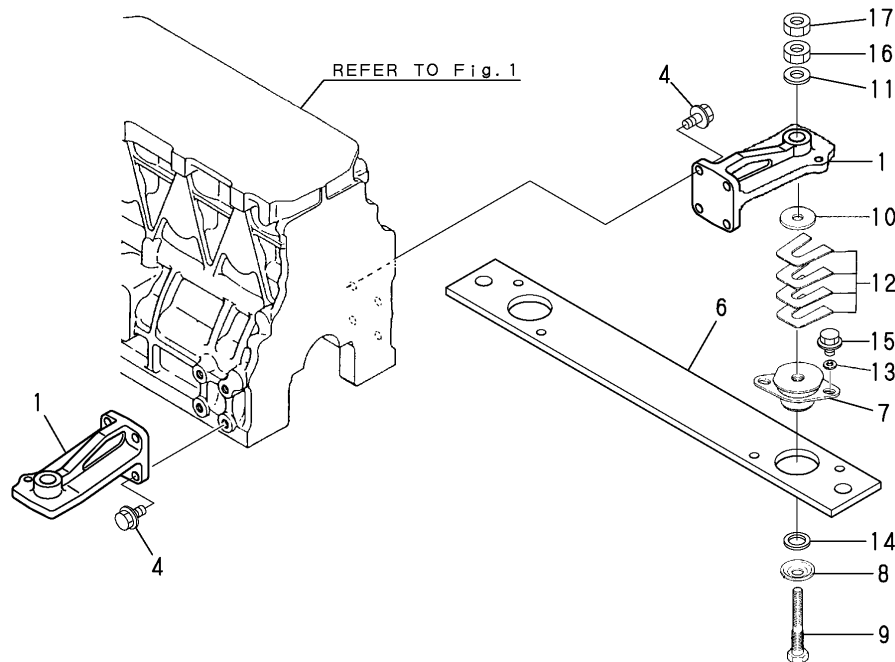
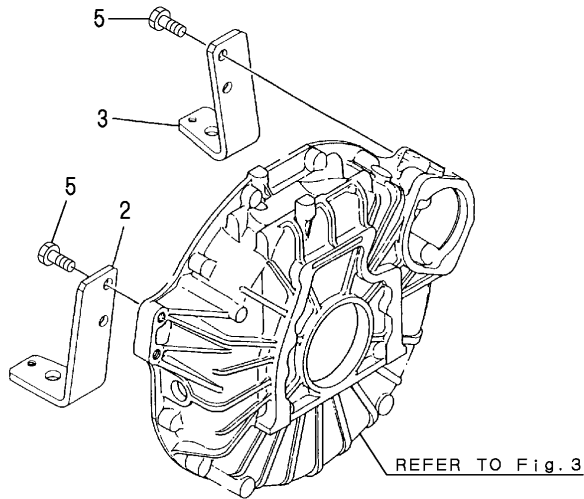
Fig.4 銘板 LABEL



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128296-07260	LABEL, DANGER	1	1	1	1				
2	1	128296-07300	LABEL, DANGER	1	1	1	1				
3	1	128296-07360	LABEL, CAUTION	1	1	1	1				
4	1	120322-07411	LABEL, ATTENTION	1	1	1	1				
5	1	123682-07851	LABEL, CAUTION	1	1	1	1				
6	1	127610-07990	LABEL	2	2	2					
7	1	120324-07190	LABEL SET	1	1	1	1				
8	2	120324-07200	LABEL, CAUTION	1	1	1	1				
9	2	120324-07210	LABEL	1	1	1	1				
10	2	128296-07400	LABEL, DANGER	2	2	2	2				
11	2	128296-07420	LABEL, DANGER	1	1	1	1				
12	1	177058-02450	LABEL							1	
13	1	177075-02551	LABEL,OIL							1	
14	1	177050-02811	LABEL							1	
15	1	177061-02811	LABEL,EMERGENCY BOLT							1	
16	1	177050-02821	LABEL, STRAINER							1	
17	1	177040-02951	LABEL							1	
18	1	177055-02951	LABEL							1	
19	1	104507-07190	LABEL, YANMAR							1	



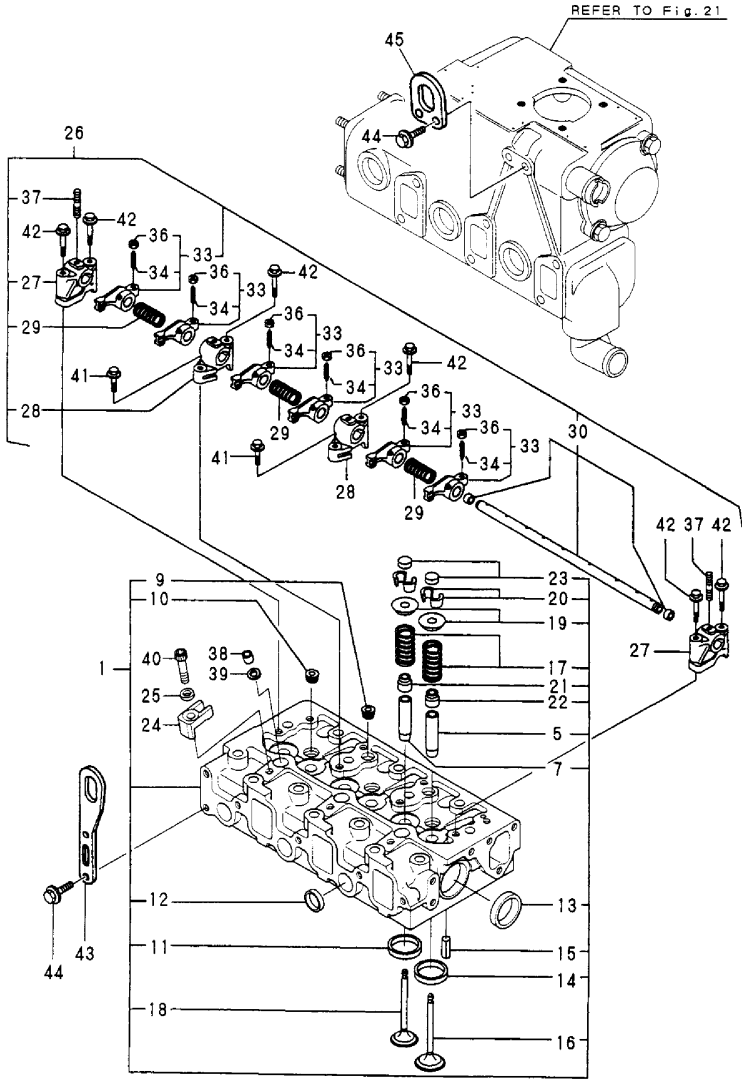
No.	Lev.	Parts No.	Description	Q'ty			I	R
				(A)	(B)	(C)		
1	1	129195-08100	FOOT, MOUNTING	3	3	3		
2	1	129195-08101	FOOT, MOUNTING	1	1	1		
3	1	26106-100222	BOLT, M10X 22 PLATED	14	14	14		
4	1	121575-08340	ABSORBER	4	4	4		
5	1	129195-08350	SPACER	4	4	4		
6	1	102410-92940	WASHER	4	4	4		
7	1	22137-120000	WASHER, 12	4	4	4		
8	1	22217-120000	WASHER, SPRING 12	4	4	4		
9	1	26116-120452	BOLT, M12X 45 PLATED	4	4	4		
10	1	26716-120002	NUT, M12	12	12	12		



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129490-08100	FOOT, MOUNTING				2				
2	1	129490-08110	FOOT, MOUNTING				1				
3	1	129490-08120	FOOT, MOUNTING				1				
4	1	26106-100202	BOLT, M10X 20 PLATED				8				
5	1	26116-120302	BOLT, M12X 30 PLATED				4				
6	1	129190-08150	PLATE				2				
7	1	126480-08600	SEAT, ENGINE				4				
8	1	126480-08610	STOPPER				4				
9	1	126480-08620	BOLT				4				
10	1	126480-08650	PROTECTOR, HEAT				4				
11	1	126480-08660	WASHER				4				
12	1	126480-08800	SHIM SET				4				
13	1	22121-100000	WASHER 10				8				
14	1	23414-160000	GASKET, 16X1.0				4				
15	1	26106-100142	BOLT, M10X 14 PLATED				8				
16	1	26716-140002	NUT, M14				4				
17	1	26756-140002	NUT, LOCK M14				4				

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Fig.7 シリンダヘッド
CYLINDER HEAD



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729270-11710	HEAD ASSY, CYLINDER	1	1	1	1				
5	3	120130-11860	GUIDE, VALVE	3	3	3	3				1
7	3	129150-11810	GUIDE, VALVE	3	3	3	3				1
9	3	23876-020000	PLUG, R02	2	2	2	2				
10	3	23876-030000	PLUG, R03	3	3	3	3				
11	3	129470-11090	SEAT, EXHAUST VALVE	3	3	3	3				
12	3	27241-220000	PLUG, 22	3	3	3	3				
13	3	27241-400000	PLUG, 40	2	2	2	2				
14	3	129270-11080	SEAT, INTAKE VALVE	3	3	3	3				
15	2	22351-060012	PIN, SPRING 6.0X12	2	2	2	2				
16	2	129270-11100	VALVE, INTAKE	3	3	3	3				
17	2	129795-11120	SPRING, VALVE	6	6	6	6				
18	2	129100-11110	VALVE, EXHAUST	3	3	3	3				
19	2	129795-11180	RETAINER, SPRING	6	6	6	6				
20	2	27310-080001	COTTER, 8	6	6	6	6				
21	2	121400-11340	SEAL, VALVE STEM	3	3	3	3				
22	2	124460-11340	SEAL, VALVE STEM	3	3	3	3				
23	2	129150-11370	CAP, VALVE	6	6	6	6				
24	1	129270-11900	RETAINER	3	3	3	3				
25	1	120270-54410	WASHER, INJECTOR	3	3	3	3				
26	1	129270-11240	SHAFT ASSY	1	1	1	1				
27	2	129270-11260	SUPPORT, ROCKER ARM	2	2	2	2				
28	2	129270-11270	SUPPORT, ROCKER ARM	2	2	2	2				
29	2	129150-11280	SPRING	3	3	3	3				
30	2	129150-11290	SHAFT, ROCKER ARM	1	1	1	1				
33	2	729402-11650	ARM ASSY, ROCKER	6	6	6	6				
34	3	129150-11230	SCREW, VALVE ADJUST	6	6	6	6				
36	3	129150-11750	NUT, M8	6	6	6	6				
37	2	129270-11290	STUD, M8X18	3	3	3	3				
38	1	119625-11870	PROTECTOR, NOZZLE	3	3	3	3				
39	1	119625-11880	SEAT, NOZZLE	3	3	3	3				
40	1	26450-080352	BOLT, M8X 35	3	3	3	3				
41	1	26106-080252	BOLT, M8X 25 PLATED	2	2	2	2				
42	1	26106-080502	BOLT, M8X 50 PLATED	6	6	6	6				
43	1	129900-07900	LIFTER	1	1	1	1				
44	1	26106-080162	BOLT, M8X 16 PLATED	4	4	4	4				
45	1	129470-07230	LIFTER	1	1	1	1				

Remarks
(1)REPAIR PART

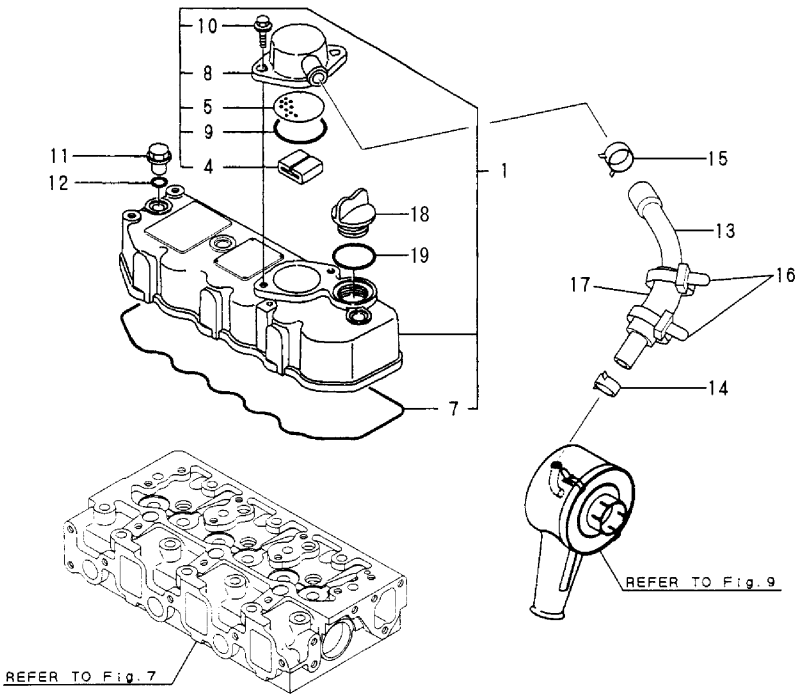
Fig.8. BONNET & BREATHER

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

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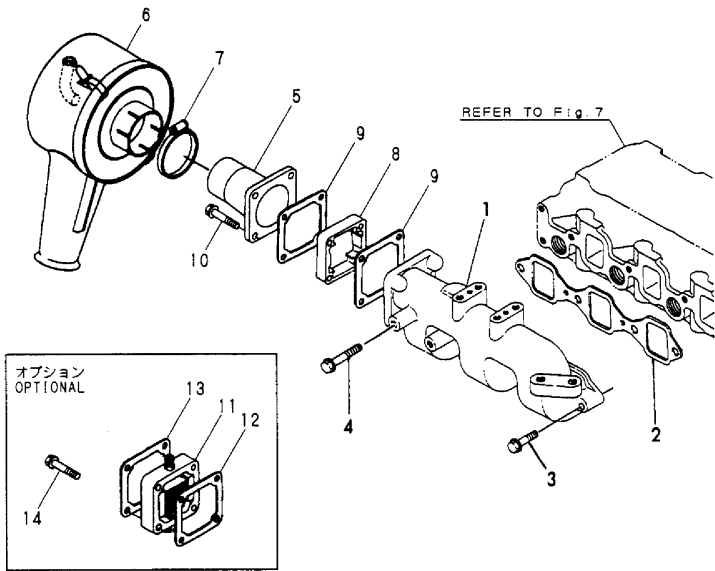
Fig.8 ボンネット&ブリーザ
BONNET & BREATHER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129270-11350	BONNET ASSY, HEAD	1	1	1	1				
4	2	129150-03070	BAFFLE, BREATHER	1	1	1	1				
5	2	129150-03080	PLATE, BAFFLE	1	1	1	1				
7	2	129270-11310	GASKET, BONNET	1	1	1	1				
8	2	129150-03020	COVER, BREATHER	1	1	1	1				
9	2	24341-000500	O-RING, 1AS50.0	1	1	1	1				
10	2	26106-080162	BOLT, M8X 16 PLATED	2	2	2	2				
11	1	124160-11360	KNOB	3	3	3	3				
12	1	24311-000120	O-RING, 1AP12.0	3	3	3	3				
13	1	129190-03090	PIPE, BREATHER	1	1	1	1				
14	1	129301-03660	CLAMP 16	1	1	1	1				
15	1	129410-03990	CLIP	1	1	1	1				
16	1	121750-59890	BAND, 140	1	1	1	1				
17	1	119595-59300	PROTECTOR	1	1	1	1				
18	1	124160-01751	COVER, FILLER	1	1	1	1				
19	1	24311-000320	O-RING, 1AP32.0	1	1	1	1				

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Fig.9 吸気マニホールド
SUCTION MANIFOLD



(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

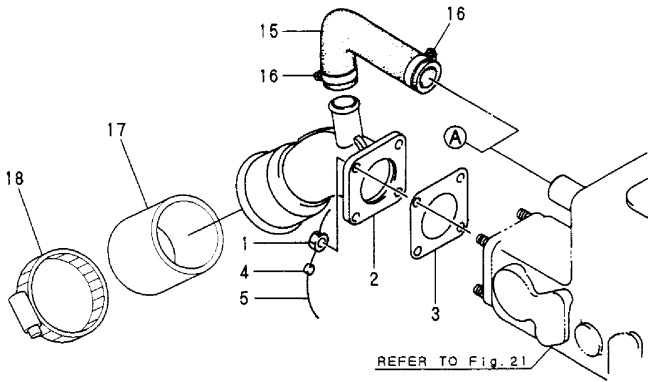
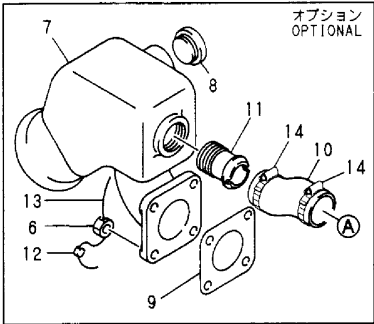
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129170-12100	MANIFOLD, AIR INTAKE	1	1	1	1				
2	1	129150-12111	GASKET, MANIFOLD	1	1	1	1				
3	1	26106-080252	BOLT, M8X 25 PLATED	3	3	3	3				
4	1	26106-080352	BOLT, M8X 35 PLATED	1	1	1	1				
5	1	129270-12200	JOINT	1	1	1	1				
6	1	129270-12300	SILENCER	1	1	1	1				
7	1	23000-070000	CLAMP, 70	1	1	1	1				
8	1	129170-12580	SPACER	1	1	1	1				
9	1	129470-77590	GASKET	2	2	2	2				
10	1	26106-080402	BOLT, M8X 40 PLATED	4	4	4	4				
11	1	129100-77500	HEATER, AIR 12V	1	1	1	1				1
12	1	129100-77510	GASKET	1	1	1	1				1
13	1	129470-77590	GASKET	1	1	1	1				1
14	1	26106-080402	BOLT, M8X 40 PLATED	4	4	4	4				1

Remarks
(1)OPTIONAL

Y00F5731

Fig. 10 ミキシングエルボ
MIXING ELBOW



(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

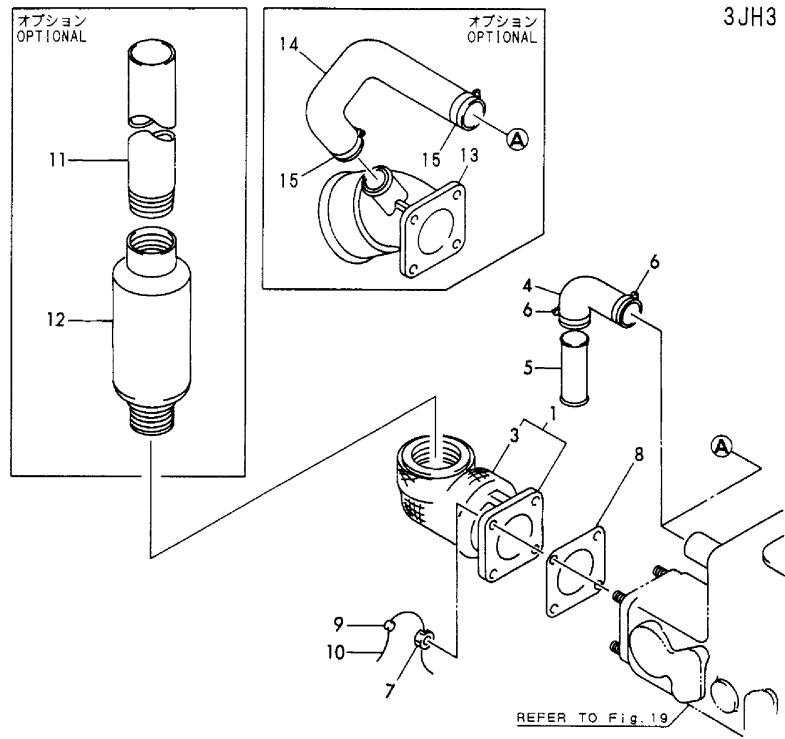
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129490-13300	NUT, M8	4	4	4					
2	1	129470-13530	ELBOW	1	1	1					
3	1	129472-18090	GASKET	1	1	1					
4	1	135210-61090	LEAD	1	1	1					
5	1	22451-060000	WIRE, 0.6	1	1	1					
6	1	129490-13300	NUT, M8	4	4	4					1
7	1	129470-13541	ELBOW	1	1	1					1
8	1	129472-13560	PLUG, PT3/4	1	1	1					1
9	1	129472-18090	GASKET	1	1	1					1
10	1	129470-49050	PIPE, WATER	1	1	1					1
11	1	123325-49421	JOINT, PIPE	1	1	1					1
12	1	135210-61090	LEAD	1	1	1					1
13	1	22451-060000	WIRE, 0.6	1	1	1					1
14	1	23000-035000	CLAMP, 35	2	2	2					1
15	1	124395-49021	HOSE, WATER	1	1	1					
16	1	23000-035000	CLAMP, 35	2	2	2					
17	1	129695-13930	VALVE	1	1	1					
18	1	196311-02231	CLAMP, HOSE 77-95	1	1	1					

Remarks
(1)OPTIONAL

Y00F5731

Fig. 11 ミキシングエルボ (3JH3)
MIXING ELBOW (3JH3)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129170-13000	BEND, EXHAUST				1				
3	2	129170-13020	INSULATOR				1				
4	1	129474-49010	PIPE, WATER				1				
5	1	129490-49070	JOINT				1				
6	1	23000-035000	CLAMP, 35				2				
7	1	129490-13300	NUT, M8				4				
8	1	129472-18090	GASKET				1				
9	1	135210-61090	LEAD				1				
10	1	22451-060000	WIRE, 0.6				1				
11	1	120220-13010	PIPE, 1-1/2X800				1				1
12	1	43100-552890	SILENCER, BK-40				1				1
13	1	129470-13560	ELBOW				1				1
14	1	129475-49040	PIPE, WATER				1				1
15	1	23000-035000	CLAMP, 35				2				1

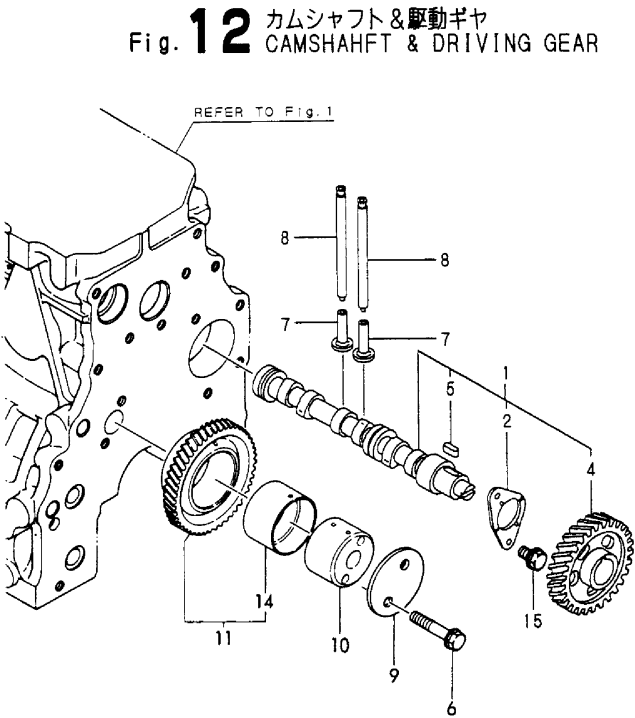
Remarks
(1)OPTIONAL

Fig.12. CAMSHAFT & DRIVING GEAR

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

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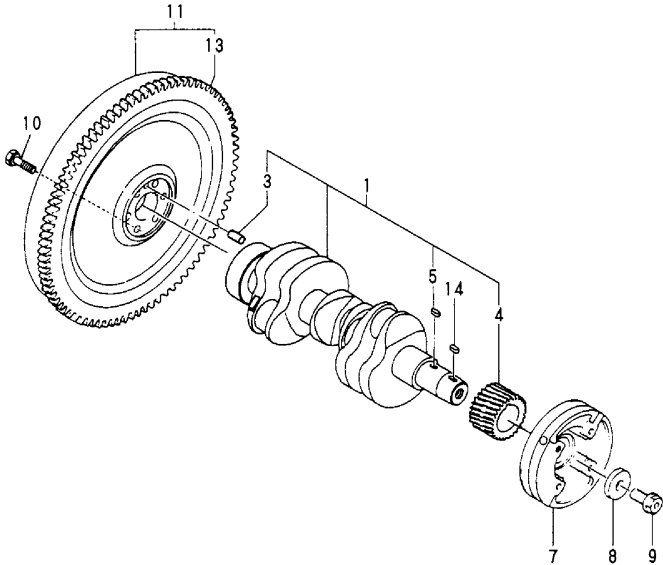
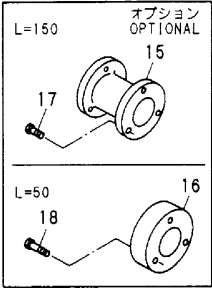
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129270-14000	CAMSHAFT ASSY	1	1	1	1				
2	2	129150-02450	BEARING, THRUST	1	1	1	1				
4	2	129150-14101	GEAR, CAMSHAFT	1	1	1	1				
5	2	22512-070140	KEY, 7X 14	1	1	1	1				
6	1	26106-080452	BOLT, M8X 45 PLATED	2	2	2	2				
7	1	129150-14200	TAPPET	6	6	6	6				
8	1	129150-14400	ROD, PUSH L=178	6	6	6	6				
9	1	129150-25020	RETAINER	1	1	1	1				
10	1	129150-25052	SHAFT, IDLE	1	1	1	1				
11	1	129573-25100	GEAR ASSY, IDLE	1	1	1	1				
14	2	129573-25090	BUSH, IDLE GEAR	1	1	1	1				1
15	1	26106-080142	BOLT, M8X 14 PLATED	2	2	2	2				

Remarks
(1)REPAIR PART

Fig.13. CRANKSHAFT & FLYWHEEL

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Fig. 13 クランクシャフト & フライホイール
CRANKSHAFT & FLYWHEEL



(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

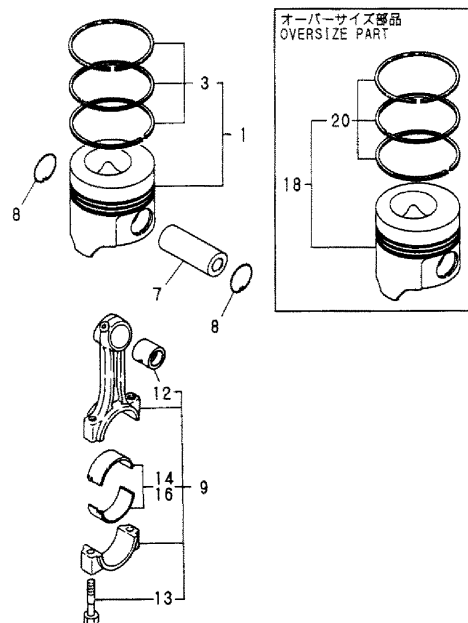
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-21000	CRANKSHAFT ASSY	1	1	1	1				
3	2	129100-01580	PIN, M8X16	1	1	1	1				
4	2	129150-21200	GEAR, CRANKSHAFT	1	1	1	1				
5	2	22512-070140	KEY, 7X 14	1	1	1	1				
7	1	129170-21650	V-PULLEY, S45C	1	1	1	1				
8	1	129795-21661	WASHER	1	1	1	1				
9	1	121850-21680	BOLT	1	1	1	1				
10	1	121111-21501	BOLT, FLYWHEEL	6	6	6	6				
11	1	129295-21590	FLYWHEEL ASSY	1	1	1					
11A	1	129190-21580	FLYWHEEL ASSY				1				
13	2	124550-21600	GEAR, RING	1	1	1	1				
14	1	22512-070160	KEY, 7X 16	1	1	1	1				
15	1	129195-21910	SPACER, FLYWHEEL	1	1	1					1
16	1	129195-21920	SPACER, FLYWHEEL	1	1	1					1
17	1	26116-120302	BOLT, M12X 30 PLATED	3	3	3					1
18	1	26116-120502	BOLT, M12X 50 PLATED	3	3	3					1

Remarks
(1)OPTIONAL

Y00F5731

Fig. 14 ピストン&コネクティングロッド
PISTON & CONNECTING ROD



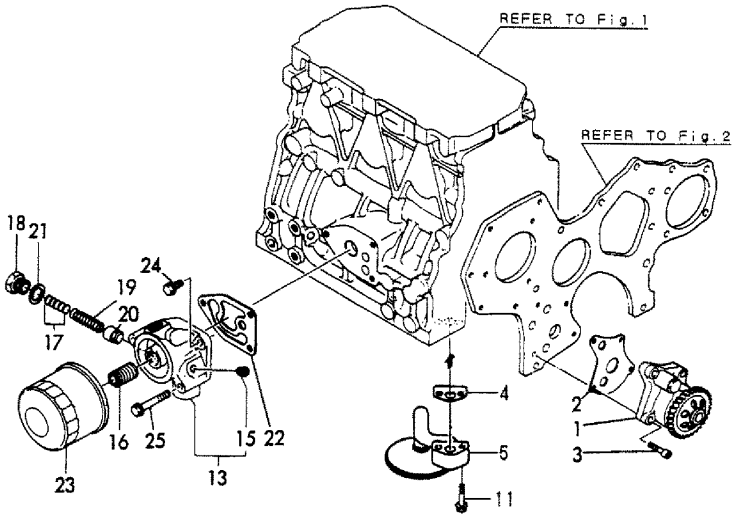
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129270-22000	PISTON ASSY	3	3						
1-1	1	129290-22000	PISTON ASSY	3	3	3	3			N	
		(A=*2000.10)	(B=*2000.10)								
3	2	129002-22510	RING SET, PISTON	3	3						
3-1	2	129690-22510	RING SET, PISTON	3	3	3	3			N	
		(A=*2000.10)	(B=*2000.10)								
7	1	129202-22300	PIN, PISTON D26 L70	3	3	3	3				
8	1	22252-000260	RING, 26	6	6	6	6				
9	1	729402-23100	ROD ASSY, CONNECTING	3	3	3	3				
12	2	129100-23910	BEARING, PISTON PIN	3	3	3	3				3
13	2	121550-23200	BOLT, CONNECTING ROD	6	6	6	6				
14	2	129150-23600	BEARING, CRANK PIN	3	3	3	3				
16	1	129150-23610	BEARING, 0.25 US	3	3	3	3				1
18	1	129270-22090	PISTON ASSY, 0.25 OS	3	3	3	3				
20	2	129002-22950	RING SET, 0.25 OS	3	3	3	3				2
20-1	2	729690-22540		3	3	3	3			N	
		(A=EXXXX)	(B=EXXXX)	(C=EXXXX)	(D=EXXXX)						

Remarks
(1)UNDER SIZED(U.S.=0.25)PART.
(2)OVER SIZED(O.S.=0.25)PART.
(3)REPAIR PART

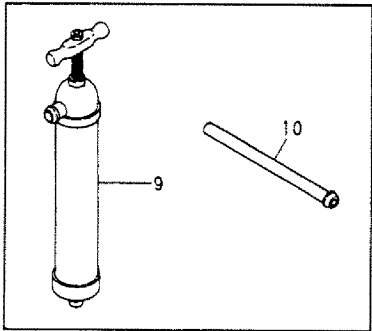
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig. 15 潤滑油システム
LUB. OIL SYSTEM



見出しNo. 12は、見出しNo. 13から21を含みます。
12 inc. 13 ~ 21



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-32000	PUMP ASSY, OIL	1	1	1	1				
2	1	129150-32020	GASKET, PUMP	1	1	1	1				
3	1	26450-060252	BOLT, M6X 25	4	4	4	4				
4	1	129150-35041	GASKET	1	1	1	1				
5	1	129150-35091	PIPE ASSY, OIL INLET	1	1	1	1				
9	1	128275-39700	PUMP ASSY, WASTE	1	1	1	1				
10	1	128275-39710	PIPE, OIL	1	1	1	1				
11	1	26106-080352	BOLT, M8X 35 PLATED	2	2	2	2				
12	1	129470-35101	BRACKET ASSY, FILTER	1	1	1	1				
13	2	129470-35131	BRACKET ASSY	1	1	1	1				
15	3	23876-020000	PLUG, R02	1	1	1	1				
16	2	129100-35140	STUD	1	1	1	1				
17	2	121850-35200	SHIM SET	1	1	1	1				
18	2	124223-35510	RETAINER, SPRING	1	1	1	1				
19	2	121850-35520	SPRING	1	1	1	1				
20	2	121850-35531	VALVE, CONTROL	1	1	1	1				
21	2	23414-180000	GASKET, 18X1.0	1	1	1	1				
22	1	129470-35121	GASKET	1	1	1	1				
23	1	119305-35150	FILTER, OIL	1	1	1	1				
24	1	26106-080202	BOLT, M8X 20 PLATED	1	1	1	1				
25	1	26106-080552	BOLT, M8X 55 PLATED	2	2	2	2				

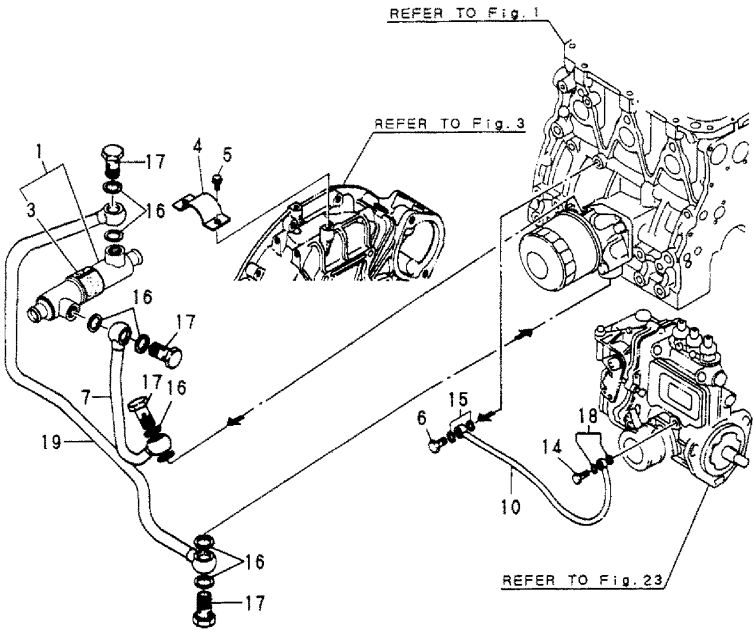
Fig.16. LUB.OIL COOLER & LUB.OIL PIPE

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

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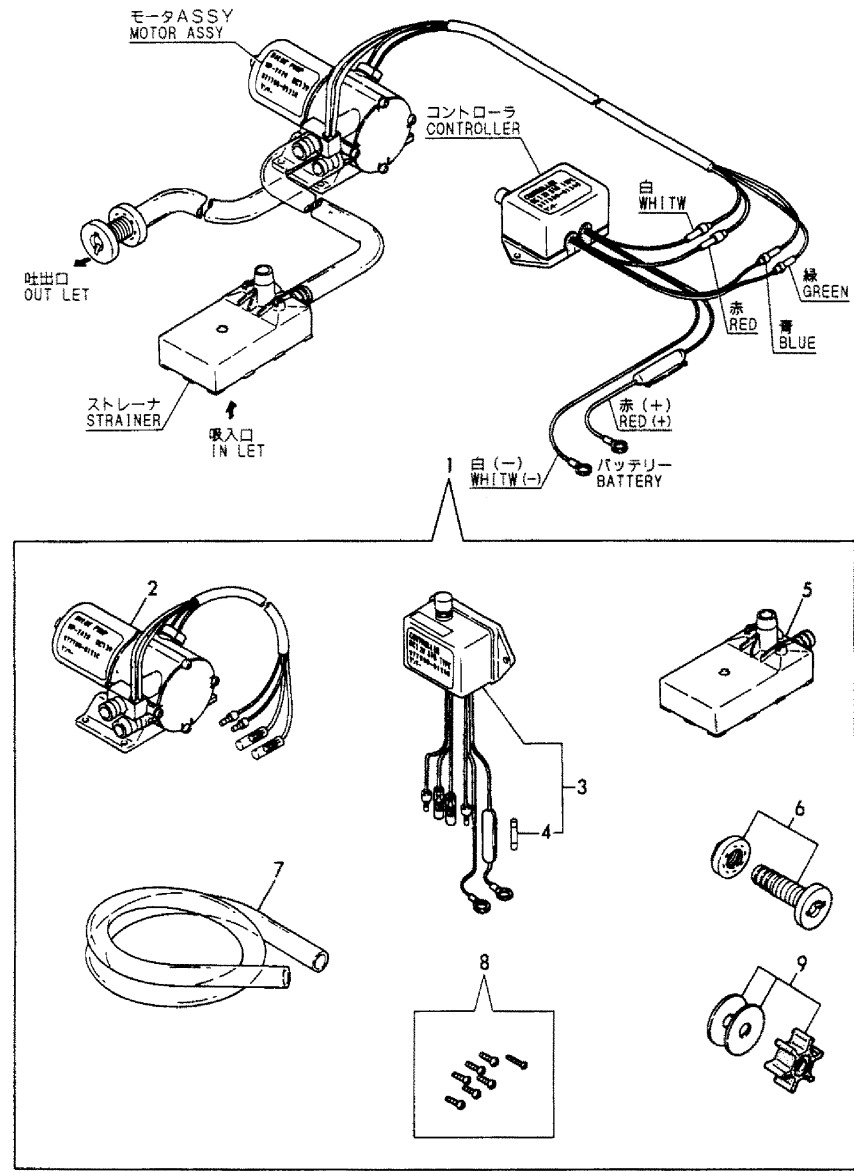
Fig. 16 潤滑油クーラ&潤滑油パイプ
LUB.OIL COOLER & LUB.OIL PIPE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129170-33000	COOLER ASSY, OIL	1	1	1	1				
3	2	129470-33550	SEAT, RUBBER	1	1	1	1				
4	1	129470-33510	RETAINER	1	1	1	1				
5	1	26106-080162	BOLT, M8X 16 PLATED	2	2	2	2				
6	1	124160-39140	BOLT, PIPE JOINT M10	1	1	1	1				
7	1	129470-39201	PIPE ASSY, OIL	1	1	1	1				
10	1	129150-39450	PIPE ASSY, OIL	1	1	1	1				
14	1	124550-59820	BOLT, PIPE JOINT M8	1	1	1	1				
15	1	23414-100000	GASKET, 10X1.0	2	2	2	2				
16	1	23414-200000	GASKET, 20X1.0	8	8	8	8				
17	1	23857-150000	BOLT, JOINT 15	4	4	4	4				
18	1	22190-080002	WASHER, SEAL 6	2	2	2	2				
19	1	129170-39300	PIPE ASSY, OIL	1	1	1	1				

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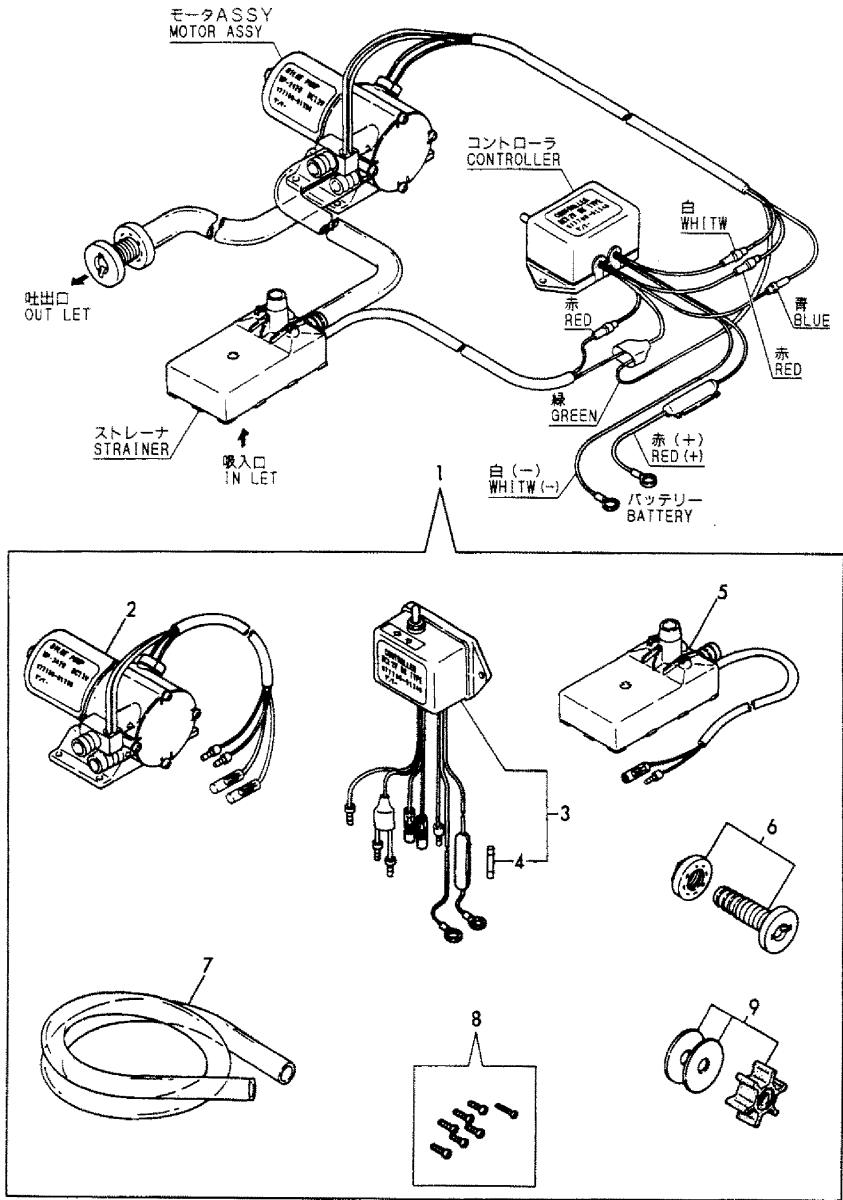
Fig. 17 ビルジポンプ (STD, オプション)
BILGE PUMP (STD,OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	977780-01210	PUMP(12V).BILGE	1	1	1	1				
2	2	977780-01230	MOTOR ASSY(BILG PUMP	1	1	1	1				
3	2	977780-01250	CONTROLLER	1	1	1	1				
4	3	X8636008003	FUSE	1	1	1	1				
5	2	X179100021X	STRAINER	1	1	1	1				
6	2	X179100100X	PIPE ASSY	1	1	1	1				
7	2	X0044021509	HOSE A	1	1	1	1				
8	2	X199903800X	SCREW KIT	1	1	1	1				
9	2	977780-03000	INPELLER	1	1	1	1				

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Fig. 18 ビルジポンプ (DX、オプション)
BILGE PUMP (DX,OPTIONAL)



(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

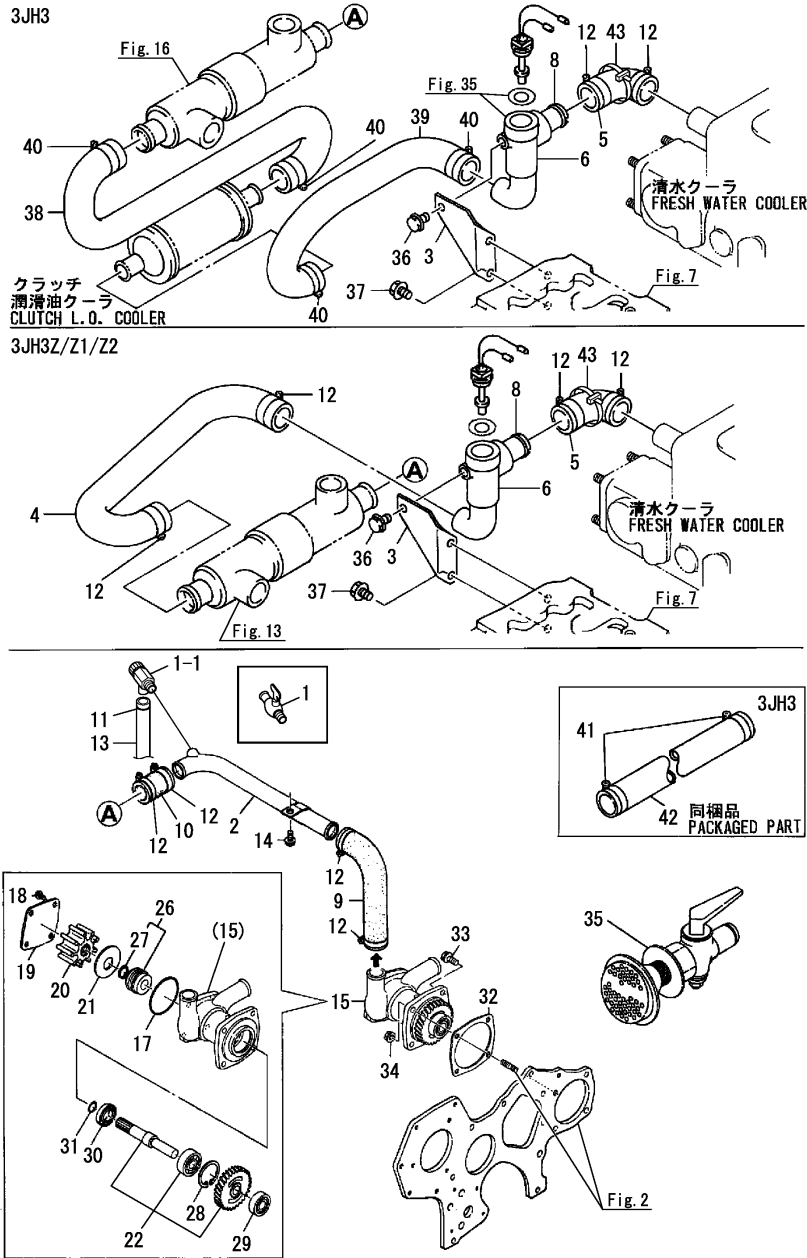
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	977780-01200	PUMP(12V).BILGE	1	1	1	1				
2	2	977780-01230	MOTOR ASSY(BILG PUMP	1	1	1	1				
3	2	977780-01240	CONTROLLER	1	1	1	1				
4	3	X8636008003	FUSE	1	1	1	1				
5	2	X179100011X	STRAINER	1	1	1	1				
6	2	X179100100X	PIPE ASSY	1	1	1	1				
7	2	X0044021509	HOSE A	1	1	1	1				
8	2	X199903800X	SCREW KIT	1	1	1	1				
9	2	977780-03000	INPELLER	1	1	1	1				

Fig.19. COOLING WATER SYSTEM(SEA WATER)

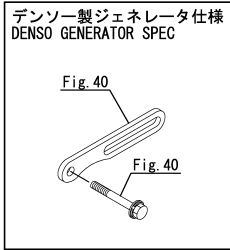
(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128695-44090	COCK	1	1						
1-1	1	129670-49290	COCK ASSY, R1/8	1	1	1	1			N	
(A=*2000.07.) (B=*2000.07.)											
2	1	129170-49010	PIPE, SEA WATER A	1	1	1	1				
3	1	129190-49020	RETAINER, SWITCH	1	1	1	1				
4	1	129195-49020	PIPE, SEA WATER B	1	1	1					
5	1	129190-49030	PIPE, SEA WATER C	1	1	1	1				
6	1	129593-49030	BODY, SWITCH	1	1	1	1				
8	1	123325-49421	JOINT, PIPE	1	1	1	1				
9	1	129470-49040	PIPE, SEA WATER D	1	1	1	1				
10	1	129470-49110	JOINT, RUBBER 25X55	1	1	1	1				
11	1	124460-77680	RETAINER, FUEL PIPE	1	1	1	1				
12	1	23000-035000	CLAMP, 35	8	8	8	6				
13	1	23061-070300	PIPE, 7X 300	1	1	1	1				
14	1	26106-080162	BOLT, M8X 16 PLATED	1	1	1	1				
15	1	129573-42500	PUMP ASSY, WATER	1	1						
15-1	1	129573-42501	PUMP ASSY, WATER	1	1	1	1			N	
(A=*2000.09.) (B=*2000.09.)											
17	2	24341-000600	O-RING, 1AS60.0	1	1	1	1				
18	2	26203-060102	BOLT, M6X 10 PLATED	4	4	4	4				
19	2	129470-42520	COVER, SIDE	1	1	1	1				
20	2	129470-42530	IMPELLER	1	1						
20-1	2	129470-42531	IMPELLER	1	1	1	1			N	
(A=*2000.09.) (B=*2000.09.)											
21	2	129573-42540	PLATE, WEAR	1	1	1	1				
22	2	129491-42560	SHAFT ASSY, PUMP	1	1	1	1				
26	2	129795-42670	SEAL, MECHANICAL	1	1	1	1				
27	3	145410-46190	CIRCLIP	1	1	1	1				
28	2	22252-000420	RING, 42	1	1	1	1				
29	2	24101-062024	BEARING, BALL 6202	1	1	1	1				
30	2	24421-203508	SEAL, OIL TC203508	1	1	1	1				
31	2	24311-000150	O-RING, 1AP15.0	1	1	1	1				
32	1	129150-01881	GASKET, PUMP COVER	1	1	1	1				
33	1	26106-080162	BOLT, M8X 16 PLATED	3	3	3	3				
34	1	26366-080002	NUT, M8	1	1	1	1				
35	1	43662-020060	COCK, KINGSTON	1	1	1	1				
36	1	26106-080162	BOLT, M8X 16 PLATED	1	1	1	1				
37	1	26106-080122	BOLT, M8X 12 PLATED	2	2	2	2				
38	1	129190-49070	PIPE, SEA WATER E							1	
39	1	129190-49080	PIPE, SEA WATER F							1	
40	1	23000-035000	CLAMP, 35							4	
41	1	23000-035000	CLAMP, 35							4	
42	1	23072-102000	HOSE, 10X2000							1	
43	1	121750-59890	BAND, NYLON	1	1	1	1				W
(A=*2000.10.) (B=*2000.10.)											

Fig.20. COOLING FRESH WATER SYSTEM



				(A)=3JH3Z1 (B)=3JH3Z2 (C)=3JH3Z					(D)=3JH3 (E)= (F)=		
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129470-42001	PUMP ASSY, WATER	1	1	1	1				
1-1	1	129470-42002	PUMP ASSY, WATER	1	1	1	1			R	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
1-2	1	129470-42003	PUMP ASSY, WATER	1	1	1	1			N	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
2	2	129150-42320	O-RING	1	1	1	1				
2-1	2	129054-42320	O-RING	1	1	1	1			N	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
3	2	129150-42051	GASKET, WATER PUMP	1	1						
3-1	2	129470-42050	GASKET	1	1	1	1			N	
		(A=*1998.12)	(B=*1998.12)								
3-2	2	129052-42050	GASKET	1	1	1	1			R	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
3-3	2	129150-42059	GASKET	1	1	1	1			R	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
4	2	129150-42311	GASKET	1	1						
4-1	2	129470-42310	GASKET	1	1	1	1			N	
		(A=*1998.12)	(B=*1998.12)								
4-2	2	129052-42310	GASKET	1	1	1	1			R	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
4-3	2	129150-42319	GASKET	1	1	1	1			R	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
5	2	124085-11690	PLUG, 3/8	3	3	3	3				
6	2	129150-42300	FLANGE	1	1	1	1				
7	1	25132-004500	V-BELT, A45	1	1	1	1				1
7-1	1	25152-004400	V-BELT, A44	1	1	1	1			S	2
		(A=E08697)	(B=E08697) (C=E08697) (D=E08145)								
8	1	26106-060102	BOLT, M6X 10 PLATED	4	4	4	4				
9	1	26106-080552	BOLT, M8X 55 PLATED	2	2	2	2				
10	1	26106-080552	BOLT, M8X 55 PLATED	1	1	1	1				
11	1	26106-080652	BOLT, M8X 65 PLATED	1	1	1	1				
11-1	1	26013-080652	BOLT, M8X 65	1	1	1	1			R	
		(A=EXXXXX)	(B=EXXXXX) (C=EXXXXX) (D=EXXXXX)								
11-2	1	26013-080652	BOLT, M8X 65	1	1	1	1			Z	
		(A=E08697)	(B=E08697) (C=E08697) (D=E08145)								
12	1	129470-49540	COVER, THERMOSTAT	1	1	1	1				
13	1	129795-49551	GASKET	1	1	1	1				
14	1	129470-49801	THERMOSTAT, 76.5	1	1	1	1				
15	1	129470-49810	GASKET, THERMOSTAT	1	1	1	1				
16	1	26106-080252	BOLT, M8X 25 PLATED	1	1	1	1				
17	1	26106-080352	BOLT, M8X 35 PLATED	1	1	1	1				
18	1	129470-49200	JOINT, RUBBER	1	1	1	1				
19	1	129470-49220	RETAINER	1	1	1	1				
20	1	129470-49240	JOINT, RUBBER 28	1	1	1	1				
21	1	129470-49250	PIPE, WATER	1	1	1	1				
22	1	129170-49260	JOINT	1	1	1	1				
23	1	23000-041000	CLAMP, 41	6	6	6	6				
24	1	128695-44090	COCK	1	1						
24-1	1	129670-49290	COCK ASSY, R1/8	1	1	1	1			N	
		(A=*2000.07)	(B=*2000.07)								
25	1	129150-42020	GASKET, WATER PUMP	1	1	1	1				

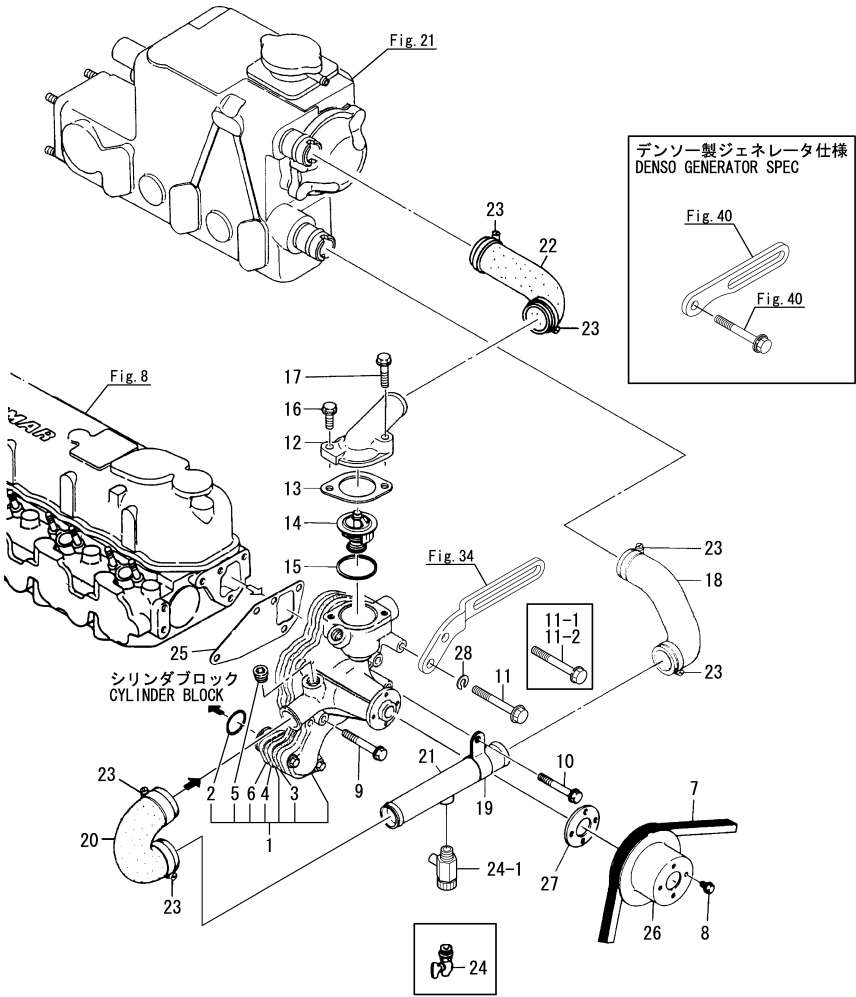
N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.20. COOLING FRESH WATER SYSTEM

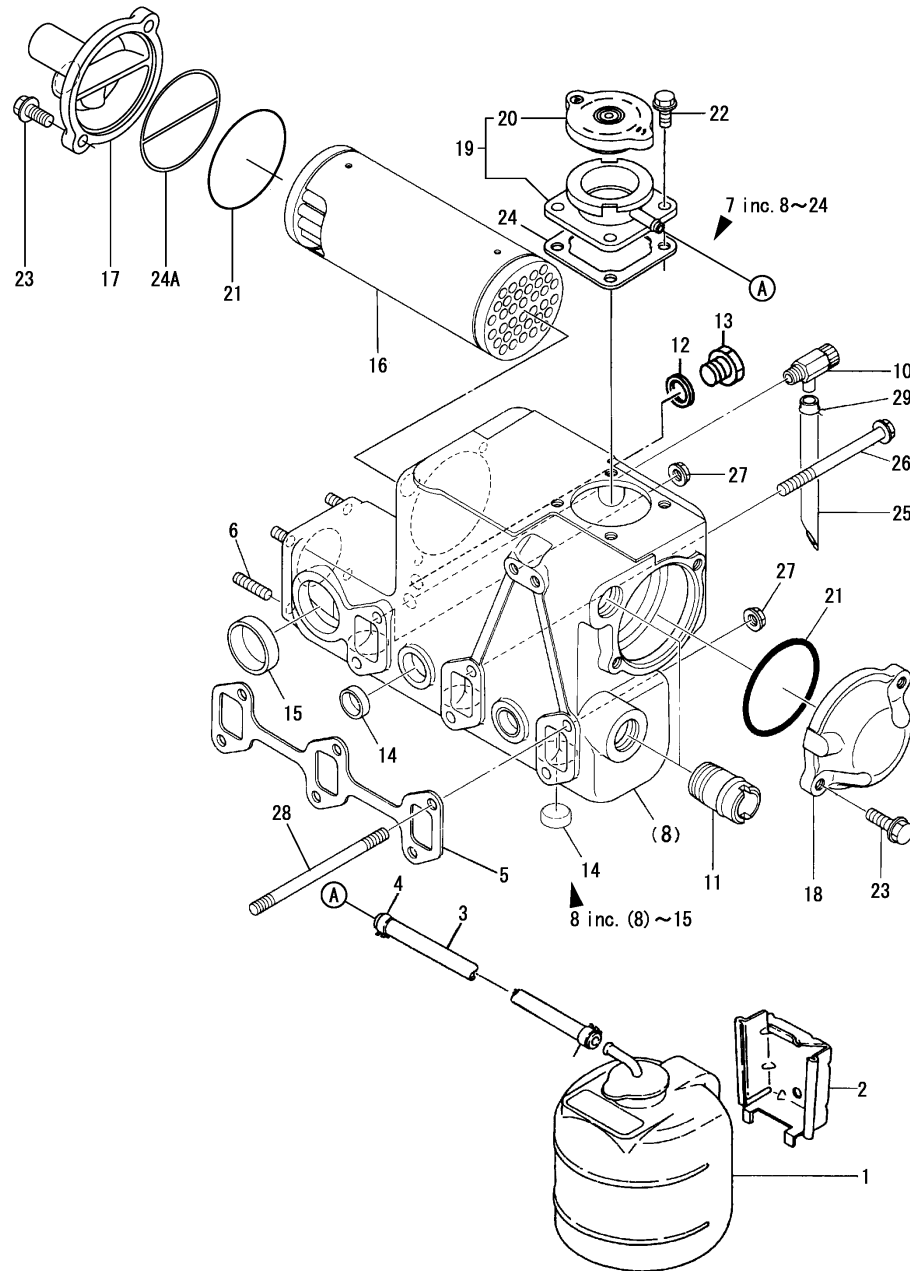
(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
26	1	129550-42350	V-PULLEY, D=120	1	1	1	1				
27	1	129156-44760	WASHER	1	1	1	1				
28	1	22217-080000	WASHER, SPRING 8	1	1	1	1				Z
(A=EXXXXX) (B=EXXXXX) (C=EXXXXX) (D=EXXXXX)											

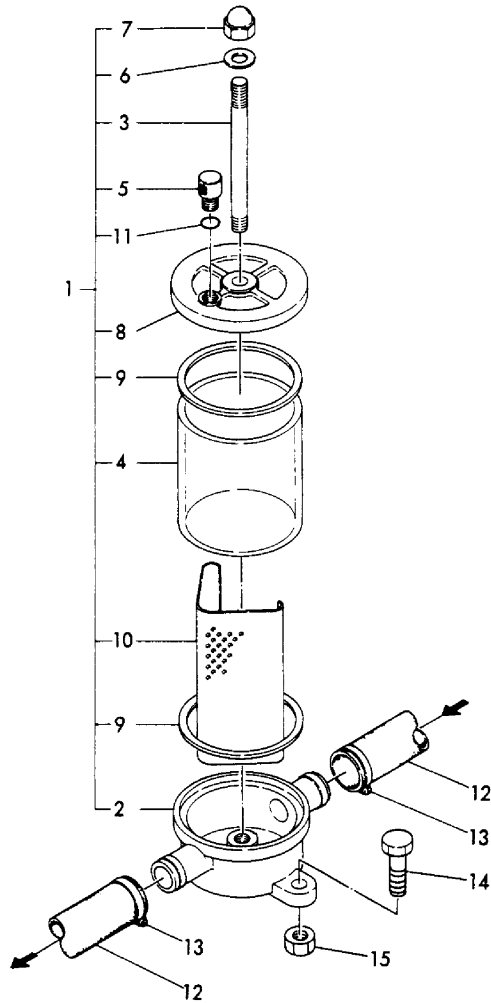


Remarks
(1)HITACHI generator spec
(2)DENSO generator spec

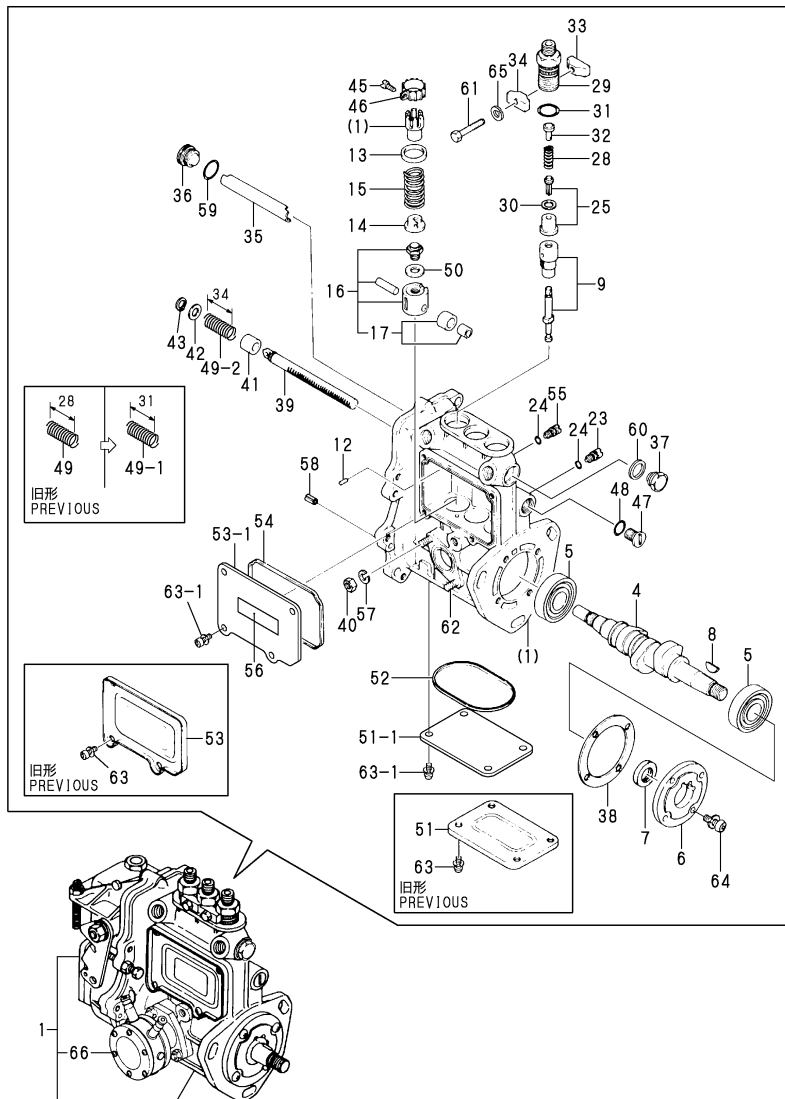


No.	Lev.	Parts No.	Description	Q'ty					I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	120445-44530	TANK, SUB	1	1	1	1			
2	1	120445-44540	SUPPORT	1	1	1	1			
3	1	124790-44560	PIPE, WATER L=1000	1	1	1	1			
4	1	23010-013000	CLAMP 13	2	2	2	2			
5	1	129150-13110	GASKET	1	1	1	1			
6	1	128170-13600	STUD, M8X31	4	4	4	4			
7	1	129170-44900	COOLER ASSY, WATER	1	1	1	1			
8	2	129170-44000	COOLER ASSY, WATER	1	1	1	1			
10	3	120130-49350	COCK, 1/4	1	1					
10-1	3	119620-49290	COCK ASSY, 1/4	1	1	1	1			N
(A=*2000.04)		(B=*2000.04)								
11	3	124160-49480	JOINT, PIPE	2	2	2	2			
12	3	23414-170000	GASKET, 17X1.0	1	1	1	1			
13	3	23894-030002	PLUG, G3/8	1	1	1	1			
14	3	27241-280000	PLUG, 28	7	7	7	7			
15	3	27241-400000	PLUG, 40	1	1	1	1			
16	2	129170-44110	CORE ASSY, COOLER	1	1	1	1			
17	2	129470-44440	COVER, A	1	1	1	1			
18	2	129470-44450	COVER, B	1	1	1	1			
19	2	129171-44600	FILLER ASSY	1	1	1	1			
20	3	129107-44590	CAP, RADIATOR	1	1	1	1			
21	2	24321-000750	O-RING, 1AG75.0	2	2	2	2			
22	2	26106-080162	BOLT, M8X 16 PLATED	4	4	4	4			
23	2	26106-080252	BOLT, M8X 25 PLATED	4	4	4	4			
24	2	120445-44640	GASKET	1	1	1	1			
24A	2	120322-33050	GASKET	1	1	1	1			W
(A=EXXXXX)		(B=EXXXXX)	(C=EXXXXX)	(D=EXXXXX)						
25	1	23061-070300	PIPE, 7X 300	1	1	1	1			
26	1	26106-081002	BOLT, M8X100 PLATED	4	4	4	4			
27	1	26366-080002	NUT, M8	2	2	2	2			
28	1	26216-081002	STUD, M8X100	2	2	2	2			
29	1	124460-77680	RETAINER	1	1	1	1			

Fig. **22** 冷却水フィルタ (海水、オプション)
C. S. W. STRAINER (OPTIONAL)



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129795-48800	STRAINER	1	1	1	1				
2	2	XTST25S001	BODY	1	1	1	1				
3	2	XTST25S002	BOLT M 8X125	1	1	1	1				
4	2	XTST25S003	PIPE, OUTER	1	1	1	1				
5	2	XTST25S004	PLUG M 8	1	1	1	1				
6	2	XTST25S005	PACKING	1	1	1	1				
7	2	26664-080002	NUT, CAP M8	1	1	1	1				
8	2	XTST25S007	COVER	1	1	1	1				
9	2	XTST25S008	PACKING	2	2	2	2				
10	2	XTST25S009	FILTER	1	1	1	1				
11	2	24311-000060	O-RING, 1AP6.0	1	1	1	1				
12	1	23072-101000	HOSE, 10X1000	1	1	1	1				
13	1	23000-041000	CLAMP, 41	2	2	2	2				
14	1	26116-080302	BOLT, M8X 30 PLATED	2	2	2	2				
15	1	26703-080002	NUT, M8	2	2	2	2				



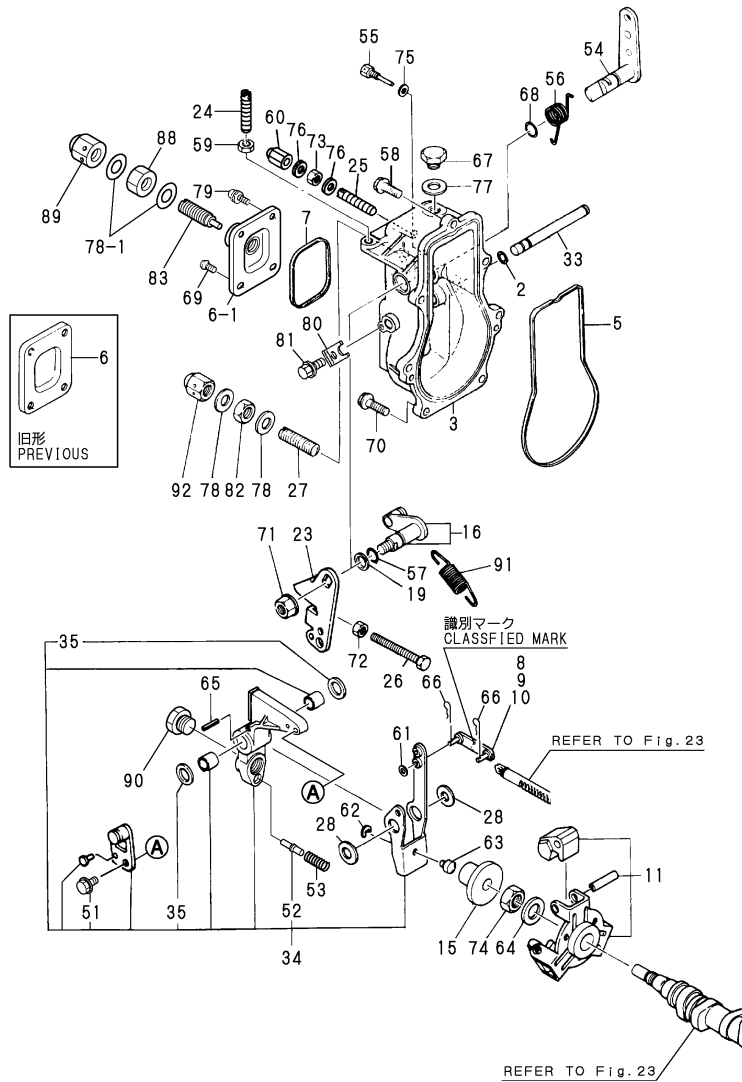
(1)GOVERNOR ASSY(FIG.24) AND FUEL
FEED PUMP ASSY(FIG.25) IS
INCORPORATED IN THIS FOEL
INJECTION PUMP ASSY(REF.NO.1)
(2)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.63-1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729295-51300	PUMP ASSY, INJECTION	1	1	1	1				1
4	3	129171-51040	CAMSHAFT	1	1	1	1				
5	3	122710-51050	BEARING, HR30203J	2	2	2	2				
6	3	129470-51060	RETAINER, BEARING	1	1	1	1				
7	3	129470-51080	SEAL, AF0741F0	1	1	1	1				
8	3	122710-51090	KEY	1	1	1	1				
9	3	129470-51101	PLUNGER ASSY	3	3	3	3				
12	3	129155-51140	PIN	3	3	3	3				
13	3	174307-51170	RETAINER, SPRING A	3	3	3	3				
14	3	129155-51180	RETAINER, SPRING	3	3	3	3				
15	3	124950-51190	SPRING, PLUNGER	3	3	3	3				
16	3	129155-51200	TAPPET ASSY	3	3	3	3				
17	4	711100-51540	ROLLER ASSY	3	3	3	3				
23	3	129155-51270	STOPPER, TAPPET	3	3	3	3				
24	3	129155-51280	O-RING, S6	4	4	4	4				
25	3	129295-51300	VALVE ASSY, DELIVERY	3	3	3	3				
28	3	129573-51330	SPRING, DELIVERY	3	3	3	3				
29	3	129573-51340	RETAINER	3	3	3	3				
30	3	124550-51350	GASKET, DELIVERY	3	3	3	3				
31	3	124550-51370	O-RING	3	3	3	3				
32	3	129573-51370	STOPPER, VALVE	3	3	3	3				
33	3	129155-51380	STOPPER	2	2	2	2				
34	3	129155-51390	STOPPER	2	2	2	2				
35	3	129155-51400	DEFLECTOR	1	1	1	1				
36	3	129155-51410	BOLT	1	1	1	1				
37	3	129155-51420	PLUG, M16	1	1	1	1				
38	3	129155-51450	SHIM SET, ADJUSTING	1	1	1	1				
39	3	129155-51500	RACK, CONTROL	1	1	1	1				
40	3	26716-060002	NUT, M6	2	2	2	2				
41	3	129155-51521	BUSH, RACK	1	1	1	1				
42	3	129155-51530	SPACER	1	1	1	1				
43	3	129155-51540	CIRCLIP	1	1	1	1				
45	3	122117-51560	SCREW	3	3	3	3				
45-1	3	129100-51570	SCREW	3	3	3	3				N
	(A=*2001.02)	(B=*2001.02)	(C=*2001.02)	(D=*2001.02)							
46	3	174307-51560	PINION	3	3	3	3				
46-1	3	129100-51560	PINION	3	3	3	3				N
	(A=*2001.02)	(B=*2001.02)	(C=*2001.02)	(D=*2001.02)							
47	3	129155-51570	PLUG, M12	1	1	1	1				
48	3	129155-51580	O-RING	1	1	1	1				
49	3	129155-51591	SPRING, RACK	1	1						
49-1	3	129295-51590	SPRING, RACK	1	1	1	1				S
	(A=*2000.09)	(B=*2000.09)									
49-2	3	129190-51590	SPRING, RACK	1	1	1	1				N
	(A=*2003.12)	(B=*2003.12)	(C=*2003.12)	(D=*2003.12)							
50	3	129155-51600	SHIM SET, ADJUSTING	3	3	3	3				
51	3	129155-51700	COVER	1	1						
51-1	3	129155-51701	COVER	1	1	1	1				F 2
	(A=*2000.01)	(B=*2000.01)									
52	3	129155-51710	GASKET	1	1						
52-1	3	129155-51711	GASKET	1	1	1	1				N

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
 ++ CONTINUE ++
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No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
	(A=*2000.10)	(B=*2000.10)									
53	3	129155-51750	COVER	1	1						
53-1	3	129155-51751	COVER	1	1	1	1			F	2
	(A=*2000.01)	(B=*2000.01)									
54	3	129155-51760	GASKET	1	1	1	1				
54-1	3	129155-51761	GASKET	1	1	1	1			N	
	(A=*2003.10)	(B=*2003.10)	(C=*2003.10)	(D=*2003.10)							
55	3	129155-51790	STOOPER, RACK	1	1	1	1				
56	3	129156-51910	LABEL, CAUTION	1	1	1	1				
57	3	22217-060000	WASHER, SPRING 6	2	2	2	2				
58	3	22351-050010	PIN, SPRING 5.0X10	2	2	2	2				
59	3	24341-000160	O-RING, 1AS16.0	1	1	1	1				
60	3	22190-160002	WASHER, SEAL 16	1	1	1	1				
61	3	26116-050302	BOLT, M5X 30 PLATED	2	2	2	2				
62	3	129155-51020	STUD	2	2	2	2				
63	3	26022-050102	SCREW, M5X10	8	8						
63-1	3	26022-050122	SCREW, M5X12	8	8	8	8			N	
	(A=*2000.01)	(B=*2000.01)									
64	3	26022-060162	SCREW, M6X16	4	4	4	4				
65	3	22217-050000	WASHER, SPRING 5	2	2	2	2				
66	2	129158-52000	PUMP ASSY, FUEL FEED	1	1	1	1				

Fig.24. GOVERNOR



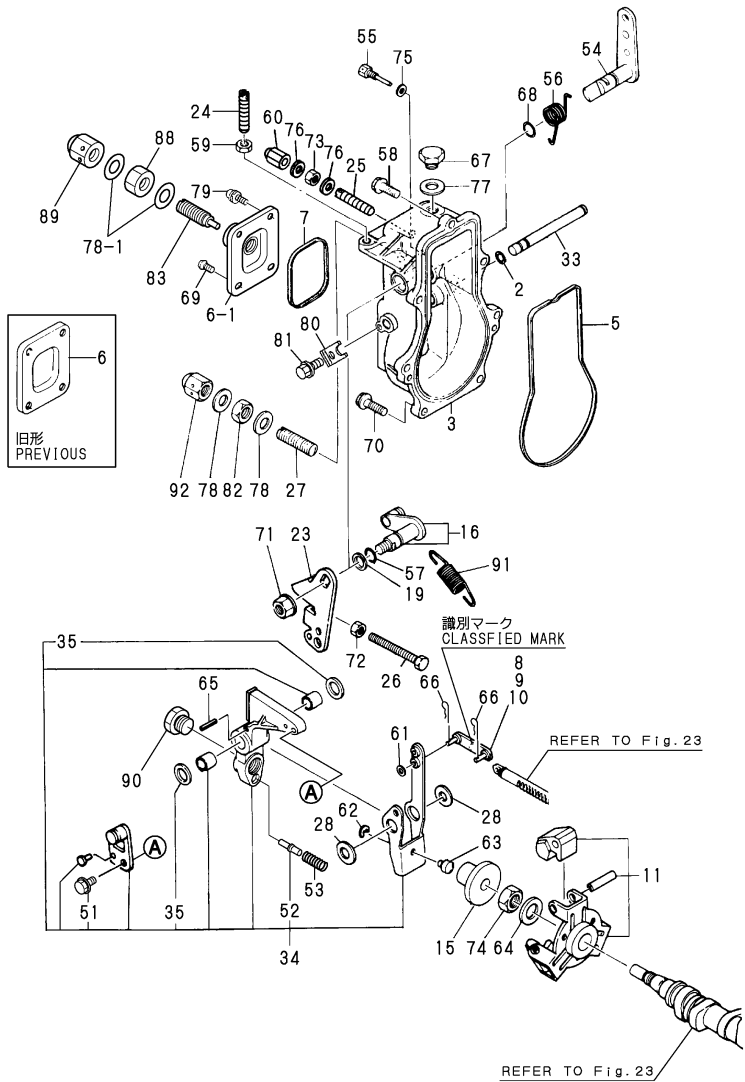
(1)SELECTIVE PART: CERTAIN THE CLASSIFICATION MARK WHEN PLACE YOUR ORDER.(REFER TO THE ILLUSTRATION)
(2)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.6-1,78-1, 83,88,89,90.

				(A)=3JH3Z1 (B)=3JH3Z2 (C)=3JH3Z					(D)=3JH3 (E)= (F)=		
No.	Lev.	Parts No.	Description	Q'ty				I R			
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-51280	O-RING, S6	1	1	1	1				
3	2	129155-61013	CASE, GOVERNOR	1	1	1	1				
5	2	129155-61050	GASKET	1	1	1	1				
5-1	2	129155-61051	GASKET	1	1	1	1				N
		(A=*2003.10)	(B=*2003.10)	(C=*2003.10)	(D=*2003.10)						
6	2	129155-61060	COVER, GOVERNOR CASE	1	1	1	1				
6-1	2	129690-61060	COVER, GOVERNOR CASE	1	1	1	1				F 2
		(A=*2004.04)	(B=*2004.04)	(C=*2004.04)	(D=*2004.04)						
7	2	129155-61070	GASKET	1	1	1	1				
7-1	2	129155-61071	GASKET	1	1	1	1				N
		(A=*2003.10)	(B=*2003.10)	(C=*2003.10)	(D=*2003.10)						
8	2	129155-61120	LINK, L=30 MARK 0	1	1	1	1				1
9	2	129155-61130	LINK, L=31 MARK 1	1	1	1	1				1
10	2	129155-61140	LINK, L=30.5 MARK 05	1	1	1	1				1
11	2	129155-61201	WEIGHT ASSY,GOVERNOR	1	1						
11-1	2	129155-61202	WEIGHT ASSY,GOVERNOR	1	1	1	1				R
		(A=*2000.01)	(B=*2000.01)								
15	2	129155-61341	SLEEVE	1	1	1	1				
16	2	129100-61400	SHAFT ASSY	1	1	1	1				
19	2	129155-61430	SPACER	1	1	1	1				
23	2	129499-61440	LEVER, CONTROL	1	1	1	1				
24	2	129155-61450	BOLT, LIMITER	1	1	1	1				
25	2	129155-61450	BOLT, LIMITER	1	1	1	1				
26	2	129155-61460	BOLT, IDLE	1	1	1	1				
27	2	129460-61450	LIMITER ASSY, FUEL	1	1	1	1				
28	2	129155-61480	SPACER ASSY	2	2	2	2				
33	2	119660-61491	SHAFT	1	1						
33-1	2	119660-61590	SHAFT	1	1	1	1				N
		(A=*2000.04)	(B=*2000.04)								
34	2	129570-61500	LEVER ASSY, GOVERNOR	1	1						
34-1	2	129270-61500	LEVER ASSY, GOVERNOR	1	1	1	1				N
		(A=*2000.09)	(B=*2000.09)								
35	3	174307-51700	SHIM SET	2	2	2	2				
51	3	26106-060102	BOLT, M6X 10 PLATED	1	1	1	1				
52	3	129190-61590	PIN, GUIDE	1	1	1	1				
53	2	129470-61650	SPRING, FUEL CONTROL	1	1	1	1				
54	2	129473-61801	LEVER, STOP	1	1	1	1				
55	2	129155-61810	PIN	1	1	1	1				
56	2	129100-61821	SPRING, RETURN	1	1	1	1				
57	2	129155-61830	O-RING, S10	1	1	1	1				
58	2	129155-61950	BOLT	1	1	1	1				
59	2	124550-66370	NUT, M6	1	1	1	1				
60	2	119600-66840	NUT, CAP	1	1	1	1				
61	2	22117-040000	WASHER, 4	1	1	1	1				
62	2	22272-000040	RING, E- 4	1	1	1	1				
63	2	129155-61540	SHIFTER	1	1	1	1				
64	2	22287-120000	WASHER, 12	1	1	1	1				
65	2	22351-030016	PIN, SPRING 3.0X16	1	1	1	1				
66	2	22372-040000	PIN, SNAP 4	2	2	2	2				
67	2	23887-100002	PLUG, 10	1	1	1	1				
68	2	24311-240100	O-RING, 1AP10A	1	1	1	1				

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.24. GOVERNOR

P/C NEWS No.:Y00F5731-2
PUBLISHED:2004/5



Remarks
(1)SELECTIVE PART: CERTAIN THE CLASSIFICATION MARK WHEN PLACE YOUR ORDER.(REFER TO THE ILLUSTRATION)
(2)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.6-1,78-1, 83,88,89,90.

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

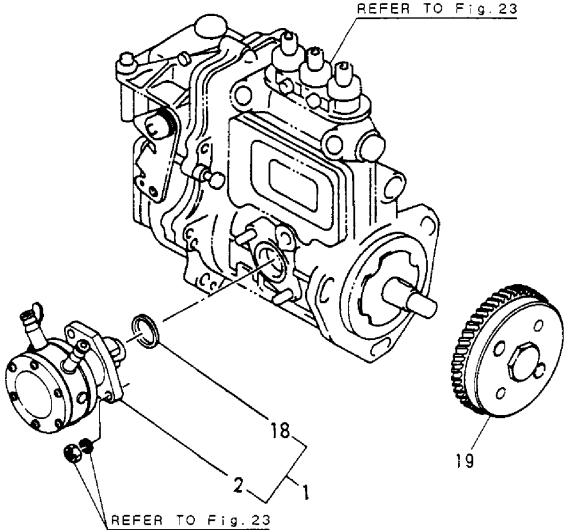
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
69	2	26022-050102	SCREW, M5X10	2	2	2	2				
70	2	26106-060202	BOLT, M6X 20 PLATED	6	6	6	6				
71	2	26366-080002	NUT, M8	1	1	1	1				
72	2	26756-060002	NUT, LOCK M6	1	1	1	1				
73	2	26756-060002	NUT, LOCK M6	1	1	1	1				
74	2	26776-120002	NUT, LOCK M12	1	1	1	1				
75	2	22190-060003	SEAL WASER 6	1	1	1	1				
76	2	22190-060003	SEAL WASER 6	2	2	2	2				
77	2	22190-100002	WASHER, SEAL 10	1	1	1	1				
78	2	22190-120002	WASHER, SEAL 12	2	2	2	2				
78-1	2	22190-120002	WASHER, SEAL 12	4	4	4	4				K
(A=*2004.04) (B=*2004.04) (C=*2004.04) (D=*2004.04)											
79	2	26023-050102	SCREW, M5X10	2	2	2	2				
80	2	119660-61901	RETAINER, SHAFT	1	1	1	1				
81	2	26106-060102	BOLT, M6X 10 PLATED	1	1	1	1				
82	2	26776-120002	NUT, LOCK M12	1	1	1	1				
82-1	2	26736-120002	NUT, M12	1	1	1	1				S
(A=*2001.09) (B=*2001.09) (C=*2001.09) (D=*2001.09)											
83	2	127692-61550	IDLE	1	1	1	1				W 2
(A=*2004.04) (B=*2004.04) (C=*2004.04) (D=*2004.04)											
88	2	26777-120002	NUT, LOCK M12	1	1	1	1				W 2
(A=*2004.04) (B=*2004.04) (C=*2004.04) (D=*2004.04)											
89	2	129100-61930	NUT, CAP	1	1	1	1				W 2
(A=*2004.04) (B=*2004.04) (C=*2004.04) (D=*2004.04)											
90	2	129470-61590	PLUG	1	1	1	1				W 2
(A=*2004.04) (B=*2004.04) (C=*2004.04) (D=*2004.04)											
91	1	129100-61730	SPRING, GOVERNOR	1	1	1	1				
92	1	129100-61930	NUT, CAP	1	1	1	1				

Fig.25. FUEL FEED PUMP & TIMER

Y00F5731

Fig.25 燃料フィードポンプ&タイマ
FUEL FEED PUMP & TIMER

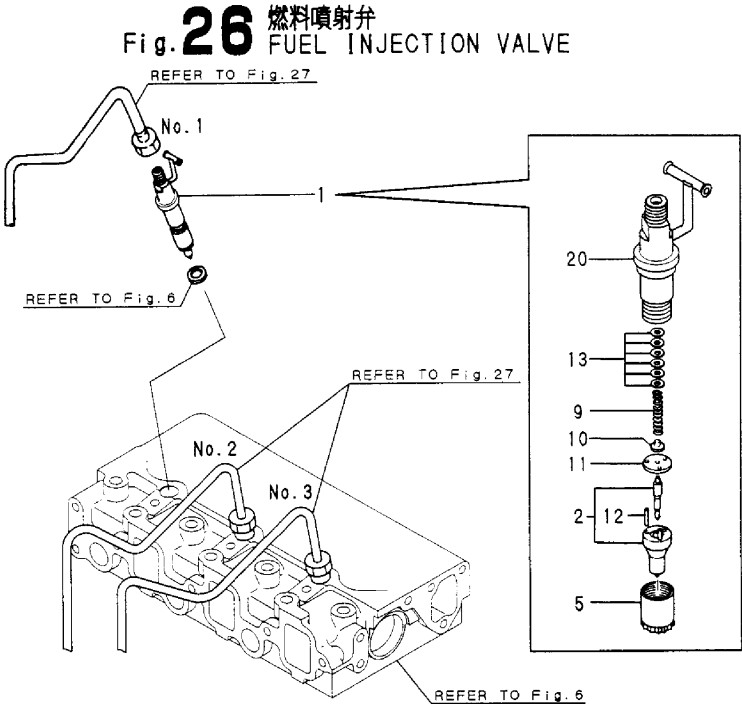


(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129158-52000	PUMP ASSY, FUEL FEED	1	1	1	1				
2	2	129158-52100	PUMP ASSY, FUEL FEED	1	1	1	1				
18	2	129155-52050	GASKET	1	1	1	1				
19	1	729499-54100	TIMER ASSY	1	1	1	1				

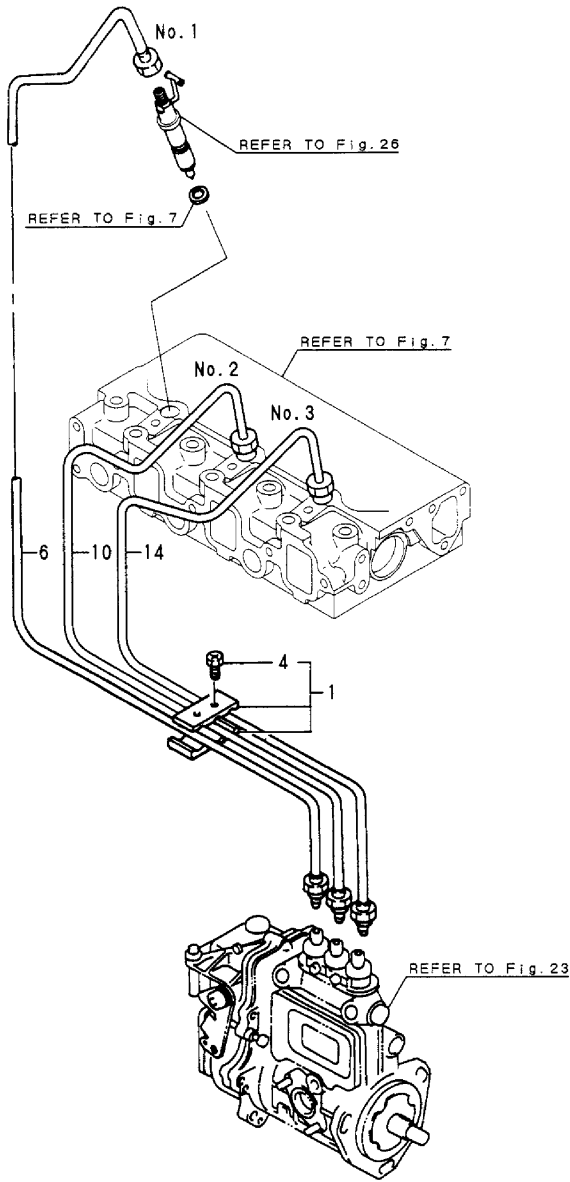
Y00F5731



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729270-53100	VALVE ASSY,INJECTION	3	3	3	3				
2	2	129270-53000	VALVE ASSY,INJECTION	3	3	3	3				
5	2	114250-53080	NUT, NOZZLE D16.95	3	3	3	3				
9	2	114250-53120	SPRING, NOZZLE	3	3	3	3				
10	2	114250-53130	SEAT, SPRING	3	3	3	3				
11	2	114250-53140	PLATE	3	3	3	3				
12	2	114250-53210	PIN	6	6	6	6				
13	2	114250-53400	SHIM SET	3	3	3	3				
20	2	129270-11920	GASKET, NOZZLE	3	3	3	3				

Y00F5731

Fig.27 燃料噴射パイプ
FUEL INJECTION PIPE

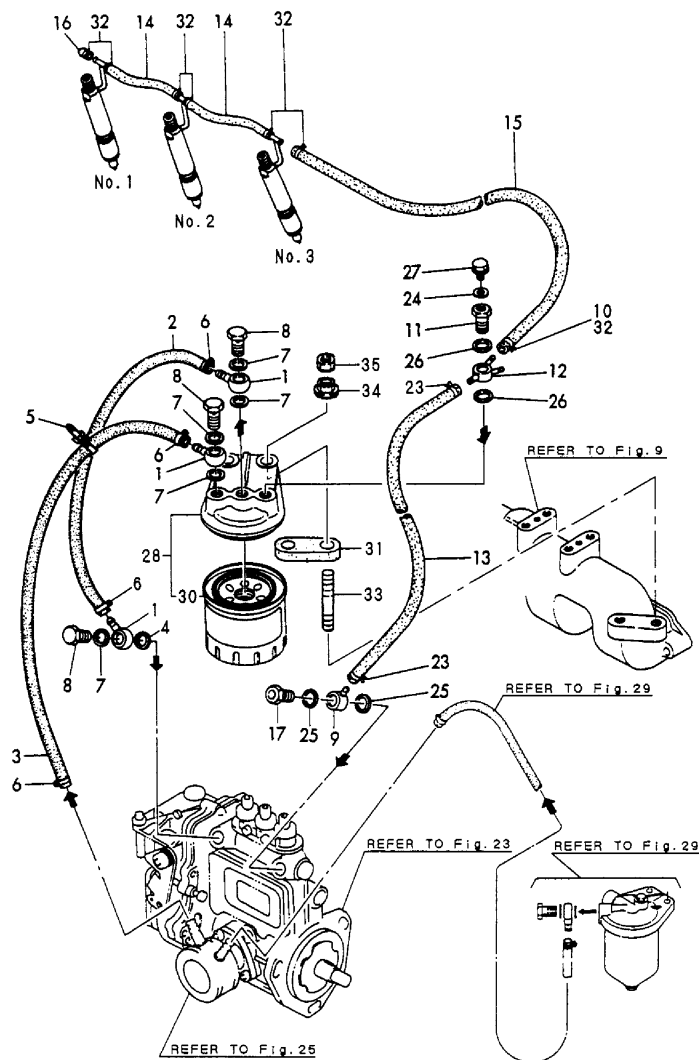


(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-59120	RETAINER, PIPE	1	1	1	1				
4	2	129150-59131	BOLT, M4X14	2	2	2	2				
6	1	129270-59811	PIPE ASSY, INJECTION	1	1	1	1				
10	1	129270-59821	PIPE ASSY, INJECTION	1	1	1	1				
14	1	129270-59831	PIPE ASSY, INJECTION	1	1	1	1				

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Fig. 28 燃料パイプ&燃料フィルタ
FUEL PIPE & FUEL STRAINER

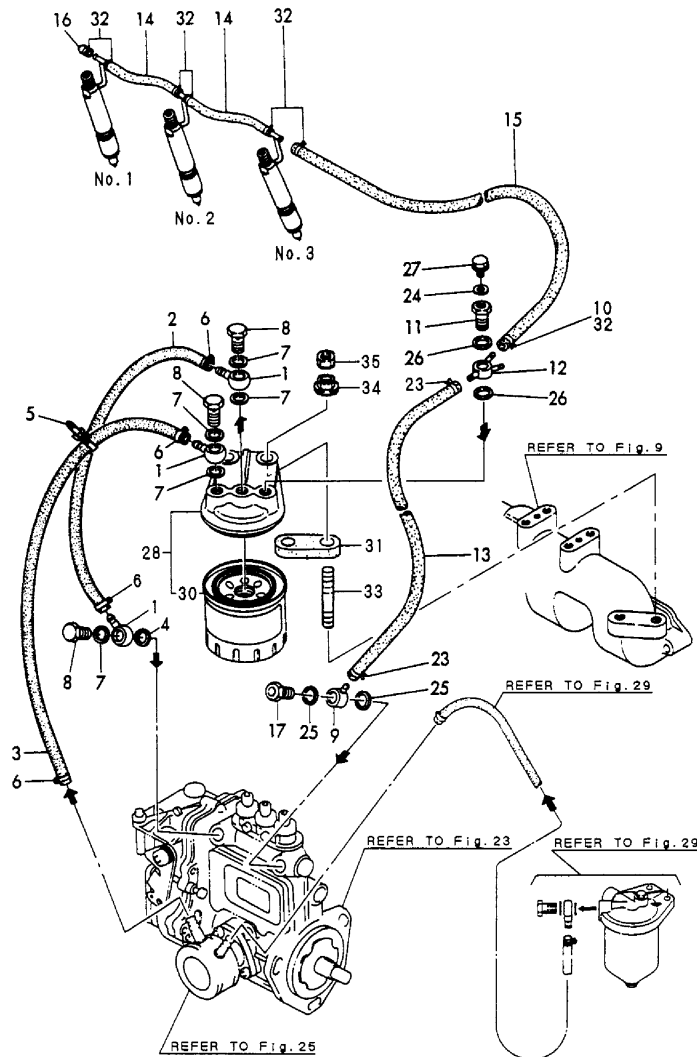


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	101304-59020	JOINT, PIPE 12	3	3	3	3				
2	1	129470-59120	PIPE, FUEL	1	1						
2-1	1	129470-59122	PIPE, FUEL	1	1	1	1			F	1
	(A=*2000.10)	(B=*2000.10)									
3	1	129470-59120	PIPE, FUEL	1	1						
3-1	1	129570-59121	PIPE, FUEL	1	1	1	1			F	1
	(A=*2000.10)	(B=*2000.10)									
4	1	104200-59170	GASKET, 12	1	1	1	1				
5	1	121750-59890	BAND, 140	1	1	1	1				
6	1	23080-013000	CLAMP, 13	4	4						
6-1	1	23000-016000	CLAMP, 16	4	4	4	4			S	
	(A=*2000.10)	(B=*2000.10)									
7	1	23414-120000	GASKET, 12X1.0	5	5						
7-1	1	22190-120002	WASHER, SEAL 12	5	5	5	5			N	
	(A=*2000.03)	(B=*2000.03)									
8	1	23857-060000	BOLT, JOINT 6	3	3	3	3				
9	1	101304-59020	JOINT, PIPE 12	1	1	1	1				
10	1	119593-59590	BAND	1	1					Z	
	(A=*2000.10)										
11	1	129495-59300	BOLT, PIPE JOINT	1	1	1	1				
12	1	129470-59530	JOINT, PIPE	1	1	1	1				
13	1	129470-59540	PIPE, FUEL	1	1						
13-1	1	129470-59542	PIPE, FUEL	1	1	1	1			F	1
	(A=*2000.10)	(B=*2000.10)									
14	1	129495-59551	PIPE, FUEL RETURN	2	2						
14-1	1	129270-59550	PIPE, FUEL	2	2	2	2			N	
	(A=*2000.10)	(B=*2000.10)									
15	1	129295-59560	PIPE, FUEL RETURN	1	1						
15-1	1	129470-59562	PIPE, FUEL	1	1	1	1			N	
	(A=*2000.10)	(B=*2000.10)									
16	1	119593-59580	CAP	1	1						
16-1	1	129270-59580	CAP	1	1	1	1			N	
	(A=*2000.10)	(B=*2000.10)									
17	1	129100-59951	VALVE ASSY, CHECK	1	1	1	1				
23	1	23080-013000	CLAMP, 13	2	2						
23-1	1	23000-016000	CLAMP, 16	2	2	2	2			S	
	(A=*2000.10)	(B=*2000.10)									
24	1	23414-080000	GASKET, 8X1.0	1	1						
24-1	1	22190-080002	WASHER, SEAL 6	1	1	1	1			N	
	(A=*2000.03)	(B=*2000.03)									
25	1	23414-120000	GASKET, 12X1.0	2	2						
25-1	1	22190-120002	WASHER, SEAL 12	2	2	2	2			N	
	(A=*2000.03)	(B=*2000.03)									
26	1	23414-140000	GASKET, 14X1.0	2	2						
26-1	1	22190-140002	WASHER, SEAL 14	2	2	2	2			N	
	(A=*2000.03)	(B=*2000.03)									
27	1	26106-080102	BOLT, M8X 10 PLATED	1	1	1	1				
28	1	129470-55601	FILTER ASSY, FUEL	1	1	1	1				
30	2	129470-55701	STRAINER ASSY, FUEL	1	1	1	1				
31	1	119173-55700	RUBBER	1	1	1	1				
32	1	23000-013000	CLAMP, 13	6	6						

N:Old $\xrightleftharpoons[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightleftharpoons[\text{Yes}]{\text{No}}$ New, R:Old $\xrightleftharpoons[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightleftharpoons[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH
CLAMP 23000-016000.

Fig. 28 燃料パイプ&燃料フィルタ
FUEL PIPE & FUEL STRAINER



				(A)=3JH3Z1 (B)=3JH3Z2 (C)=3JH3Z	(D)=3JH3 (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
32-1	1	23000-013000	CLAMP, 13	7	7	7	7				K
	(A=*2000.10)	(B=*2000.10)									
33	1	26216-100452	STUD, M10X 45	2	2	2	2				
34	1	26366-100002	NUT, M10	2	2	2	2				
35	1	26716-100002	NUT, M10	2	2	2	2				

Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH
CLAMP 23000-016000.

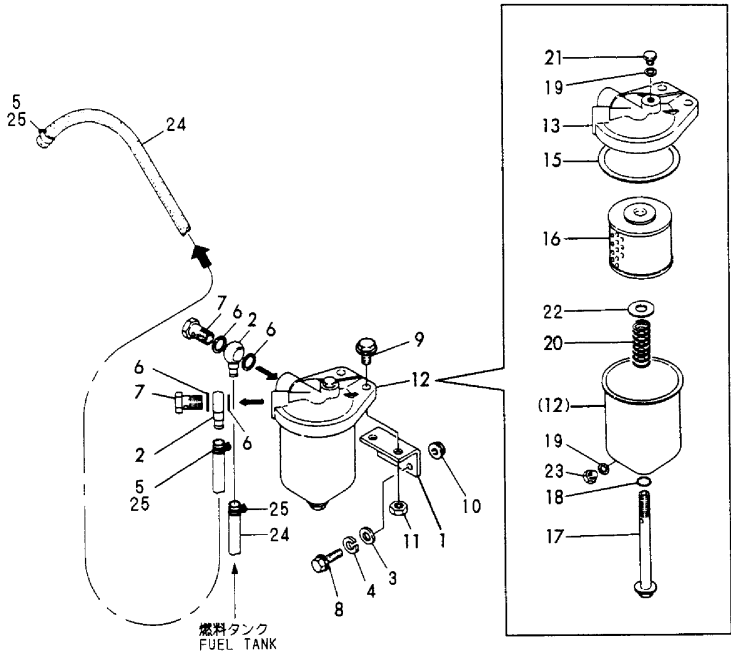
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

Y00F5731

Fig.29 油水分离器
OIL/WATER SEPARATOR

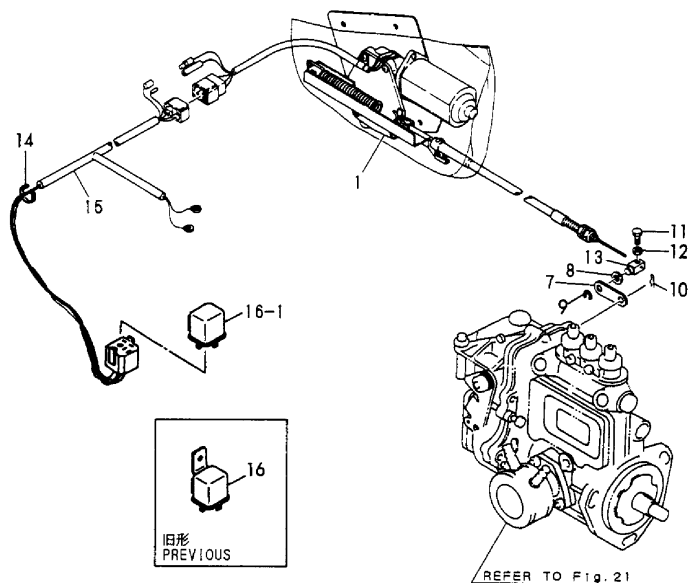


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	123672-55811	BRACKET	1	1	1	1				
2	1	121750-59910	JOINT	2	2	2	2				
3	1	22137-080000	WASHER, 8	2	2	2	2				
4	1	22217-080000	WASHER, SPRING 8	2	2	2	2				
5	1	23000-016000	CLAMP, 16	2	2	2	2				
6	1	23414-140000	GASKET, 14X1.0	4	4	4	4				
7	1	23857-080000	BOLT, JOINT 8	2	2	2	2				
8	1	26106-080402	BOLT, M8X 40 PLATED	2	2	2	2				
9	1	26106-100202	BOLT, M10X 20 PLATED	2	2	2	2				
10	1	26366-080002	NUT, M8	2	2	2	2				
11	1	26706-100002	NUT, M10	2	2	2	2				
12	1	120324-55750	SEPARATOR ASSY	1	1	1	1				
13	2	X2740134001	COVER ASSY	1	1	1	1				
15	2	X0582810173	GASKET	1	1	1	1				
16	2	120324-55760	ELEMENT	1	1	1	1				
17	2	X0311121522	BOLT	1	1	1	1				
18	2	X0580121073	O-RING, 1A P 12.0	1	1	1	1				
19	2	X0588080273	WASHER	2	2	2	2				
20	2	X0600160122	SPRING	1	1	1	1				
21	2	X0314080110	PLUG	1	1	1	1				
22	2	X0300120414	SEAT, SPRING	1	1	1	1				
23	2	X0313080110	BOLT	1	1	1	1				
24	1	129795-59100	PIPE, FUEL L=4000	1	1	1	1				1
25	1	23000-016000	CLAMP, 16	4	4	4	4				1

Remarks
(1)OPTIONAL

Y00F5731

Fig. 30 機関停止装置
ENGINE STOP DEVICE



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121575-77900	MOTOR, STOP	1	1	1	1				
7	1	119867-66910	LINK	1	1	1	1				
8	1	22117-080000	WASHER, 8	1	1	1	1				
9	1	22360-080000	SNAP PIN 8	1	1	1	1				
10	1	22414-250150	PIN, COTTER 2.5X15	1	1	1	1				
11	1	26116-050142	BOLT, M5X 14 PLATED	1	1	1	1				
12	1	26756-050002	NUT, LOCK M5	1	1	1	1				
13	1	41660-502410	RETAINER	1	1	1	1				
14	1	121750-59890	BAND, 140	2	2	2	2				
15	1	129593-77670	HARNES, WIRE	1	1	1	1				1
15-1	1	129593-77671	HARNES, WIRE STOP	1	1	1	1			S	2
	(A=EXXXXX)	(B=EXXXXX)	(C=EXXXXX)	(D=EXXXXX)							
16	1	124617-91850	RELAY	1	1						
16-1	1	119773-91850	RELAY	1	1	1	1			N	
	(A=*2000.02)	(B=*2000.02)									

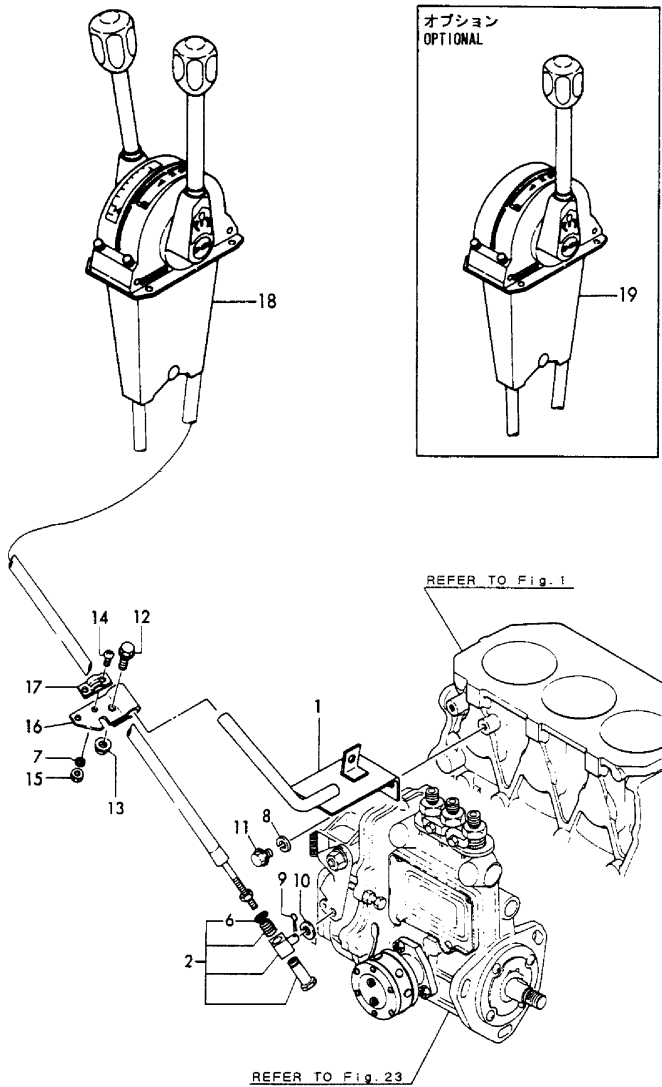
Remarks
(1)HITACHI generator spec
(2)DENSO generator spec

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

Y00F5731

Fig.31 ケーブル支持台
CABLE BRACKET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129295-67100	BRACKET, GOVERNOR	1	1	1	1				
2	1	129470-67200	RETAINER ASSY	1	1	1	1				
6	2	22242-000100	RING, 10	1	1	1	1				
7	1	22217-050000	WASHER, SPRING 5	2	2	2	2				
8	1	22217-080000	WASHER, SPRING 8	2	2	2	2				
9	1	22414-250150	PIN, COTTER 2.5X15	1	1	1	1				
10	1	23414-080000	GASKET, 8X1.0	1	1	1	1				
11	1	26106-080122	BOLT, M8X 12 PLATED	2	2	2	2				
12	1	26106-080252	BOLT, M8X 25 PLATED	1	1	1	1				
13	1	26366-080002	NUT, M8	1	1	1	1				
14	1	26557-050122	SCREW, M5X12	2	2	2	2				
15	1	26716-050002	NUT, M5	2	2	2	2				
16	1	41701-001720	BRACKET	1	1	1	1				
17	1	41710-000410	CLAMP	1	1	1	1				
18	1	41730-501421	HEAD, REMOTE-CONT.							1	
19	1	41730-501500	HEAD, CONTROL							1	1

Remarks
(1)OPTIONAL

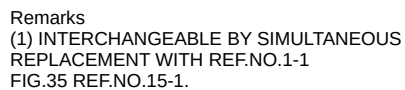
Fig 32 クラッチ

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129190-81200	CLUTCH ASSY, I=3.13				1				
2	1	129190-81100	CLUTCH ASSY, I=2.54				1				
3	1	129190-81300	CLUTCH ASSY, I=3.50				1				
4	1	177040-03130	SLEEVE				1				
5	1	24321-000300	O-RING, 1AG30.0				1				
6	1	26106-100302	BOLT, M10X 30 PLATED				8				
7	1	26226-100222	STUD, M10X 22				2				
8	1	26716-100002	NUT, M10				2				
9	1	177040-03121	DISK, DAMPER				1				
10	1	26106-080162	BOLT, M8X 16 PLATED				6				

この項目はイラスト表現しておりません

Remarks
THIS FIGURE ARE NOT ILLUSTRATED.

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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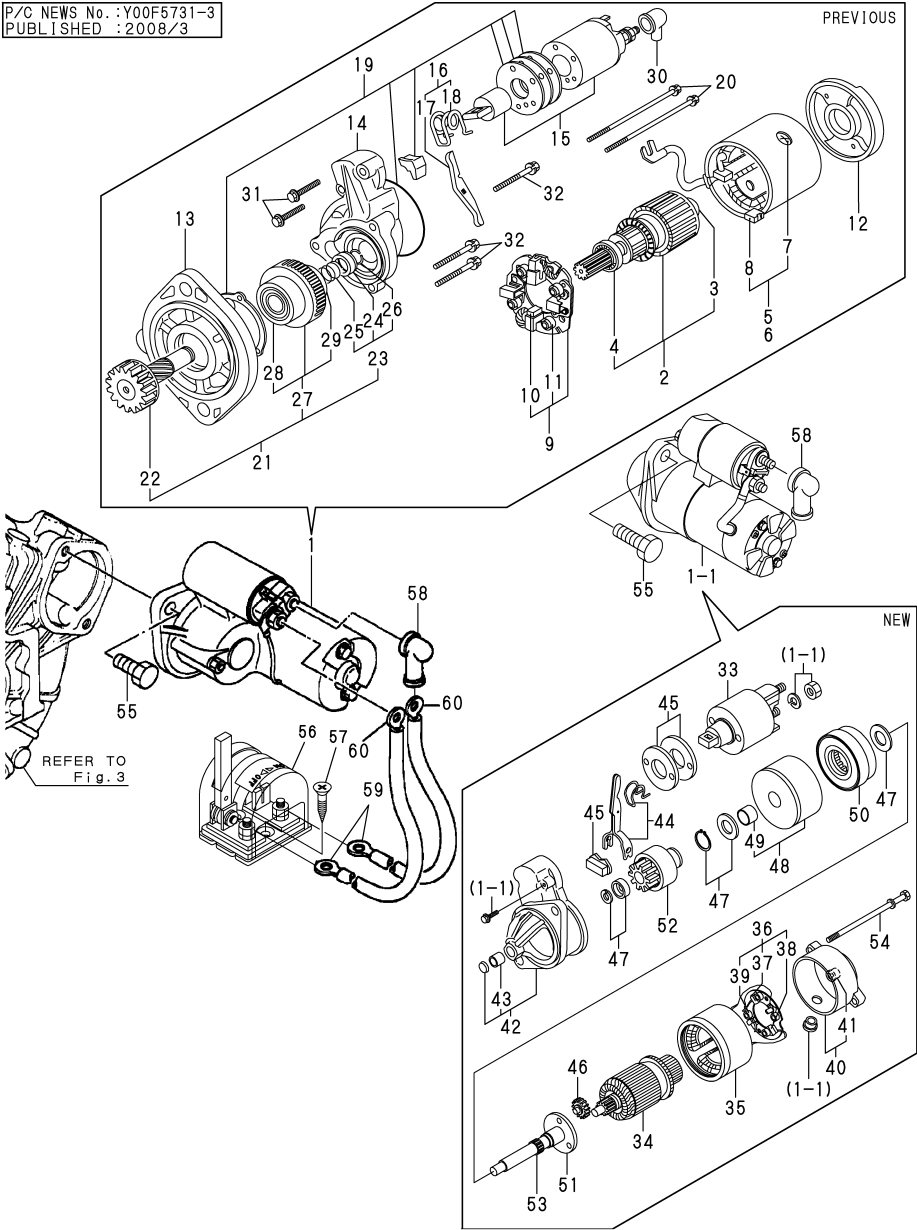


No.	Lev.	Parts No.	Description	Q'ty				I	R
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	171008-77010	STARTER, S114-483	1	1	1	1		
1-1	1	129608-77010	STARTER, S114-817A	1	1	1	1		F 1
		(A=*2007.01)	(B=*2007.01)	(C=E/# 3293)	(D=E/# 3245)				
2	2	171008-77400	ARMATURE ASSY	1	1	1	1		
3	3	X2130350900	BEARING, BALL	1	1	1	1		
4	3	X2114255110	BEARING, BALL	1	1	1	1		
5	2	171008-77430	YOKE ASSY	1	1	1	1		
6	3	171008-77440	COIL ASSY, FIELD	1	1	1	1		
7	4	171008-77450	SCREW	4	4	4	4		
8	4	171008-77460	BRUSH (+)	2	2	2	2		
9	2	171008-77470	HOLDER ASSY, BRUSH	1	1	1	1		
10	3	171008-77480	BRUSH (-)	2	2	2	2		
11	3	171008-77490	SPRING, BRUSH	4	4	4	4		
12	2	171008-77500	COVER, REAR	1	1	1	1		
13	2	171008-77510	CASE, GEAR	1	1	1	1		
14	2	171008-77520	HOUSING, CENTER	1	1	1	1		
15	2	171008-77531	MAGNETIC SWITCH ASSY	1	1	1	1		
16	2	171008-77540	LEVER SET	1	1	1	1		
17	3	171008-77550	LEVER, SHIFT	1	1	1	1		
18	3	171008-77560	SPRING	1	1	1	1		
19	2	171008-77571	COVER KIT, DUST	1	1	1	1		
20	2	171008-77640	BOLT, THROUGH	2	2	2	2		
21	2	171008-77650	PINION ASSY	1	1	1	1		
22	3	171008-77660	SHAFT	1	1	1	1		
23	3	171008-77670	STOPPER SET	1	1	1	1		
24	4	171008-77680	STOPPER	1	1	1	1		
25	4	171008-77690	SPRING, RETURN	1	1	1	1		
26	4	171008-77700	CLIP	1	1	1	1		
27	3	X2114555500	CLUTCH ASSY	1	1	1	1		
28	4	X2114955020	BEARING, BALL	1	1	1	1		
29	4	X2240410100	BEARING, BALL	1	1	1	1		
30	2	171008-77750	COVER	1	1	1	1		
31	2	26106-060322	BOLT, M6X 32 PLATED	2	2	2	2		
32	2	26106-060402	BOLT, M6X 40 PLATED	3	3	3	3		
33	2	129698-77020	SWITCH ASSY	1	1	1	1		
34	2	129698-77101	ARMATURE ASSY	1	1	1	1		
35	2	129608-77110	YOKE ASSY	1	1	1	1		
36	2	129698-77120	HOLDER ASSY, BRUSH	1	1	1	1		
37	3	129698-77140	BRUSH SET	1	1	1	1		
38	3	129698-77130	BRUSH	2	2	2	2		
39	3	129698-77150	SPRING, BRUSH	4	4	4	4		
40	2	129698-77161	COVER ASSY	1	1	1	1		
41	3	129698-77170	BEARING	1	1	1	1		
42	2	129698-77260	CASE ASSY	1	1	1	1		
43	3	X2114535200	METAL, STARTER	1	1	1	1		
44	2	129698-77270	LEVER SET, SHIFT	1	1	1	1		
45	2	129698-77280	COVER KIT	1	1	1	1		
46	2	129698-77240	GEAR	3	3	3	3		
47	2	129698-77250	WASHER SET	1	1	1	1		
48	2	129698-77180	BRACKET	1	1	1	1		
49	3	129698-77190	BRACKET	1	1	1	1		

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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OCF10-M57301 3JH3(Z/Z1/Z2)
Fig.33. STARTING MOTOR

P/C NEWS No.:Y00F5731-3
PUBLISHED :2008/3



OCF10-M57301 Fig.33

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

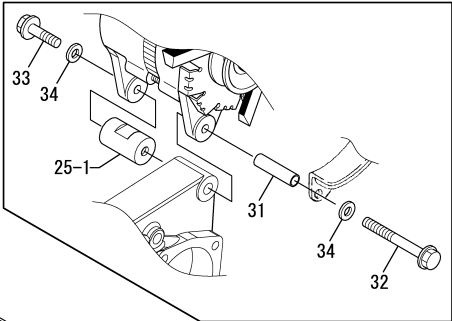
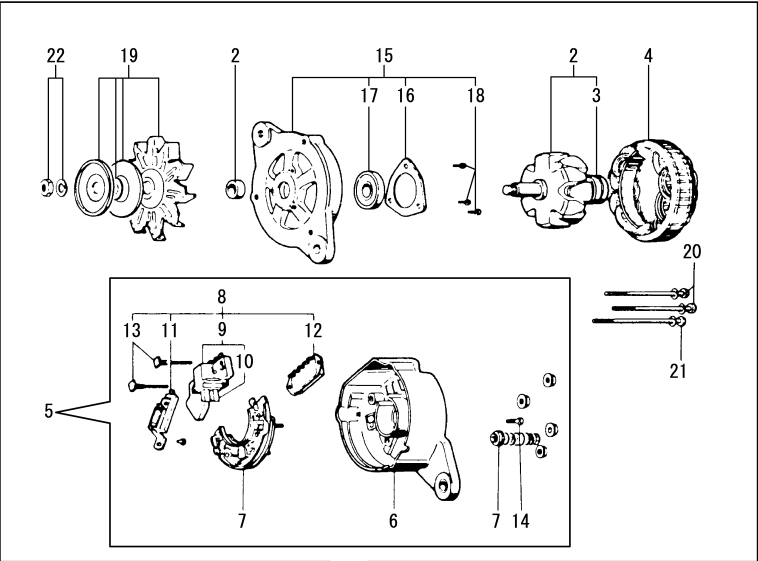
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
50	2	129698-77200	GEAR, INTERNAL	1	1	1	1				
51	2	129698-77210	BRACKET	1	1	1	1				
52	2	129698-77220	PINION ASSY	1	1	1	1				
53	2	129698-77230	SHAFT	1	1	1	1				
54	2	124195-77770	BOLT, THROUGH	2	2	2	2				
55	1	26116-120302	BOLT, M12X 30 PLATED	2	2	2	2				
56	1	123310-77640	SWITCH, BATTERY	1	1	1	1				
57	1	22724-800380	SCREW, 8.0X38	2	2	2	2				
58	1	124550-77030	COVER, TERMINAL	1	1	1	1				
59	1	123325-77920	TERMINAL	2	2	2	2				
60	1	123325-77930	TERMINAL	2	2	2	2				

Remarks
(1) INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.1-1
FIG.35 REF.NO.15-1.

Fig.34. GENERATOR(HITACHI:TO JUNE, 2012)

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128270-77200	GENERATOR, LR135-105 (A=E08696) (B=E08696) (C=E08696) (D=E08144)	1	1	1	1				Z
2	2	XL13561001	ROTOR ASSY	1	1	1	1				
3	3	X6201SD	BALL BEARING	1	1	1	1				
4	2	XL13542001	STATER ASSY	1	1	1	1				
5	2	XL13563003	COVER ASSY	1	1	1	1				
6	3	XL1358301	COVER	1	1	1	1				
7	3	XL1353320	DIODE ASSY	1	1	1	1				
8	3	XL13513152	BRUSH REGULATOR(W/CO	1	1	1	1				
9	4	XL1354326	BRUSH, CARBON	1	1	1	1				
10	5	XL12013262	BRUSH	2	2	2	2				
11	4	XL1352318	CONDENSER ASSY	1	1	1	1				
12	4	XTR1263	REGULATOR	1	1	1	1				
13	4	XL13513134	BOLT M5	2	2	2	2				
14	3	26557-050142	SCREW M 5X 14	1	1	1	1				
15	2	XL1359400	COVER ASSY, FRONT	1	1	1	1				
16	3	XL13514042	RETAINER	1	1	1	1				
17	3	X6302BM	BALL BEARING	1	1	1	1				
18	3	26557-040122	SCREW, M4X12	3	3	3	3				
19	2	XL13525001	PULLEY ASSY	1	1	1	1				
20	2	XL1254801	BOLT, THROUGH	2	2	2	2				
21	2	XL1255801	BOLT, THROUGH	1	1	1	1				
22	2	XB495469B	NUT ASSY, PULLEY	1	1	1	1				
24	1	129495-77330	ADJUSTER, BELT	1	1	1	1				
25	1	129490-77340	PIECE, DISTANCE	1	1	1	1				
25-1	1	129695-77340	PIECE, DISTANCE (A=*2003.06.) (B=*2003.06.) (C=*2003.06.) (D=*2003.06.)	1	1	1	1				S
26	1	22137-080000	WASHER, 8	1	1	1	1				
27	1	26106-080352	BOLT, M8X 35 PLATED	1	1	1	1				
28	1	26106-081202	BOLT, M8X120 PLATED	1	1	1	1				
29	1	26716-080002	NUT, M8	2	2	2	2				
30	1	129795-77210	COVER	1	1	1	1				
30-1	1	129693-77210	COVER (A=*1996.11.) (B=*1996.11.) (C=*1996.11.) (D=*1996.11.)	1	1	1	1				N
31	1	129693-77350	SPACER	1	1	1	1				
32	1	129695-77350	BOLT, M8X75 (A=*2003.06.) (B=*2003.06.) (C=*2003.06.) (D=*2003.06.)	1	1	1	1				W
33	1	129695-77360	BOLT, M8X30 (A=*2003.06.) (B=*2003.06.) (C=*2003.06.) (D=*2003.06.)	1	1	1	1				W
34	1	22137-080000	WASHER, 8 (A=*2003.06.) (B=*2003.06.) (C=*2003.06.) (D=*2003.06.)	2	2	2	2				W

Fig. 20

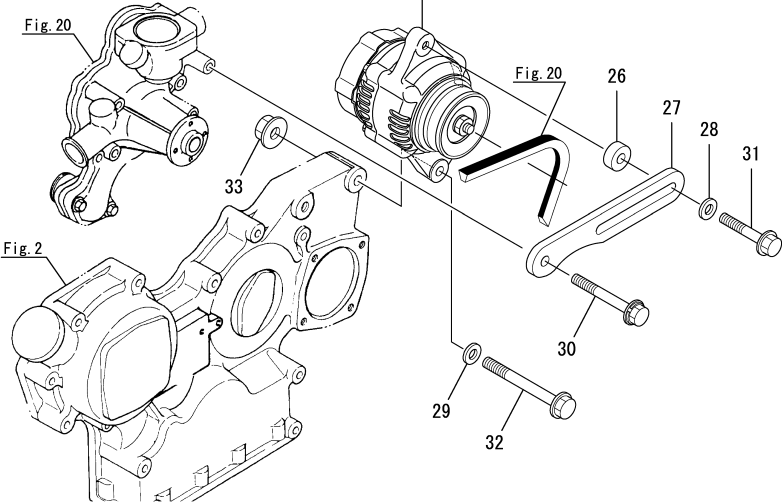
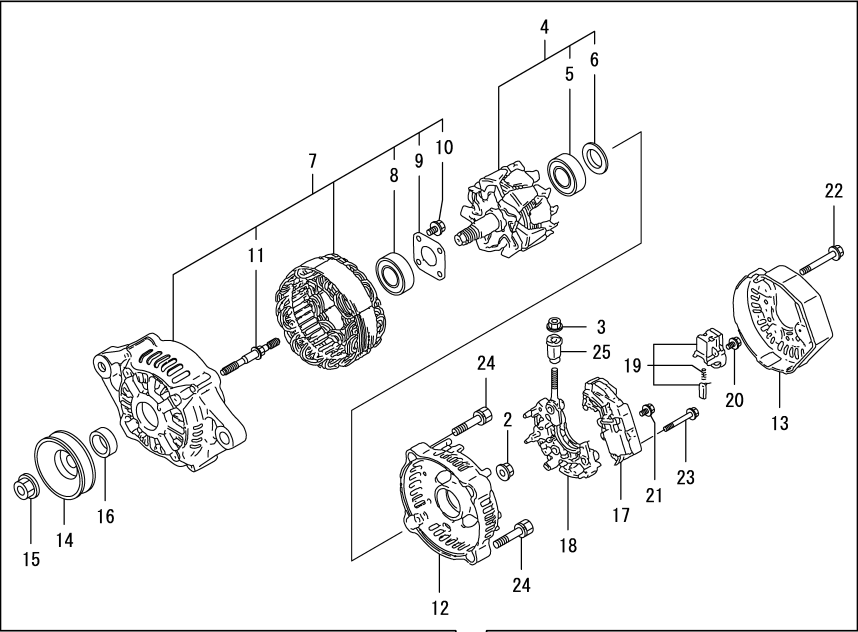
Fig. 20

Fig. 20

Fig. 2

Remarks
*This item is applicable to [(A)(B)(C)=E08696 (D)=E08144] or previous machines(Refer to Fig.40).

Fig.40. (34A)GENERATOR(DENSO:FROM JULY, 2012)



Remarks
* This item is applicable to [(A)(B)(C)=E08697 (D)=E08145] or following machines(Refer to Fig.34).

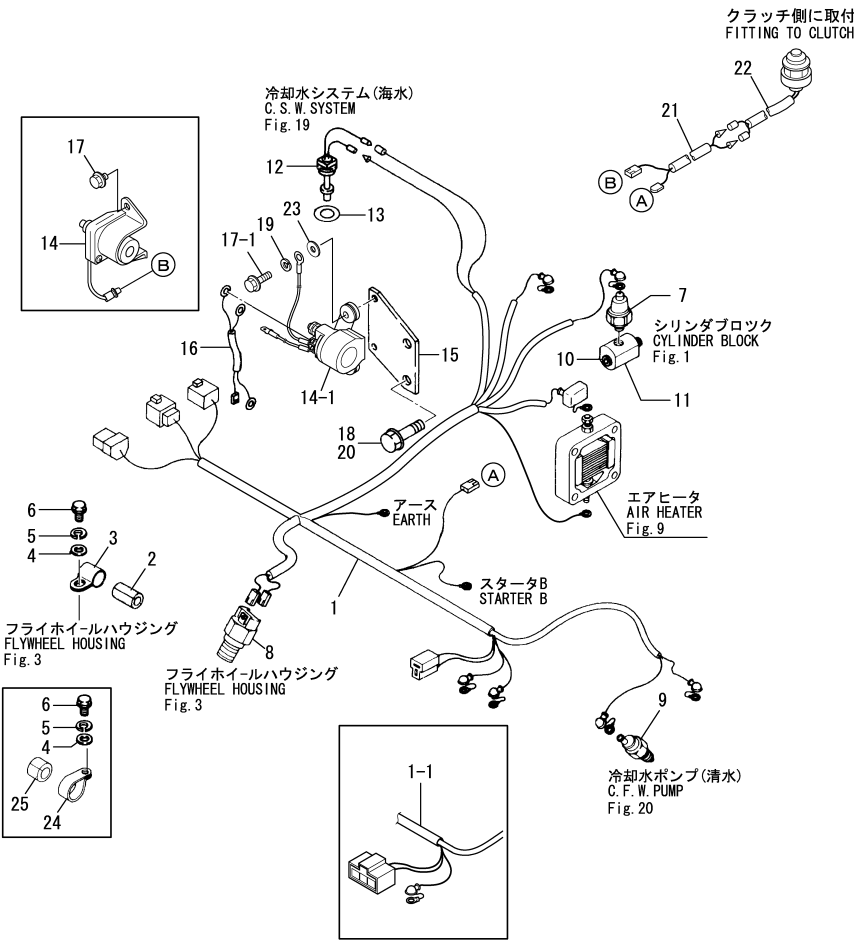
(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z
(D)=3JH3
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119626-77210	ALTERNATOR, 12V-55A (A=E08697) (B=E08697) (C=E08697) (D=E08145)	1	1	1	1			W	
2	2	119620-79350	NUT	2	2	2	2				
3	2	X9490561001	NUT	1	1	1	1				
4	2	129052-77380	ROTOR ASSY	1	1	1	1				
5	3	123501-79240	BEARING, BALL	1	1	1	1				
6	3	119620-79250	COVER	1	1	1	1				
7	2	129052-77422	FRAME ASSY	1	1	1	1				
8	3	119620-79200	BEARING, BALL	1	1	1	1				
9	3	119620-79210	PLATE, RETAINER	1	1	1	1				
10	3	119620-79220	SCREW	4	4	4	4				
11	3	119620-79230	STUD	2	2	2	2				
12	2	128401-77440	FRAME	1	1	1	1				
13	2	119626-77450	COVER	1	1	1	1				
14	2	119620-77461	PULLEY	1	1	1	1				
15	2	119620-77471	NUT	1	1	1	1				
16	2	119620-77490	COLLAR	1	1	1	1				
17	2	129423-77710	REGULATOR ASSY	1	1	1	1				
18	2	129052-79260	HOLDER	1	1	1	1				
19	2	129052-79270	HOLDER, BRUSH	1	1	1	1				
20	2	119620-79290	SCREW	6	6	6	6				
21	2	119620-79300	SCREW	1	1	1	1				
22	2	119620-79310	BOLT	3	3	3	3				
23	2	119620-79320	SCREW	2	2	2	2				
24	2	119620-79330	BOLT	2	2	2	2				
25	2	119620-79340	BUSH, INSULATION	1	1	1	1				
26	1	129198-77270	SPACER,ALTERNATOR	1	1	1	1				
27	1	119171-77330	ADJUSTER, BELT	1	1	1	1				
28	1	22137-080000	WASHER, 8	1	1	1	1				
29	1	22137-100000	WASHER, 10	1	1	1	1				
30	1	26014-080652	BOLT, M8X 65	1	1	1	1				
31	1	26106-080402	BOLT, M8X 40 PLATED	1	1	1	1				
32	1	26106-100752	BOLT, M10X 75 PLATED	1	1	1	1				
33	1	26306-100002	NUT, M10	1	1	1	1				

Fig.35. WIRE HARNESS & SENSOR

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

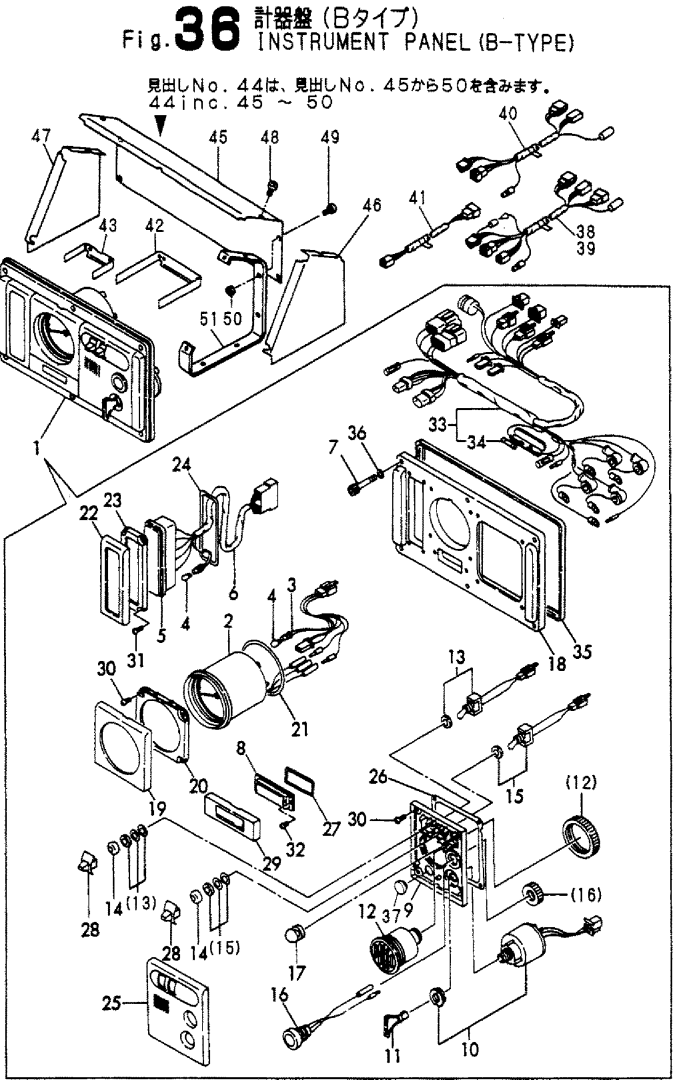


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129190-77910	HARNESS, WIRE	1	1	1	1				
1-1	1	129190-77911	HARNESS, WIRE	1	1	1	1			S	2
(A)=E08697 (B)=E08697 (C)=E08697 (D)=E08145											
2	1	124770-77940	PROTECTOR	1	1	1	1				
2-1	1	129670-77940	PROTECTOR	1	1	1	1			R	
(A)=*2008.02 (B)=*2008.02 (C)=E04451 (D)=E03887											
2-2	1	129670-77940	PROTECTOR				1			Z	
(D)=EXXXXX											
3	1	124070-77950	CLAMP	1	1	1	1				
3-1	1	23297-180081	CLAMP, A18X 8	1	1	1	1			N	
(A)=*2008.01 (B)=*2008.01 (C)=E04451 (D)=E03887											
3-2	1	23297-180081	CLAMP, A18X 8				1			Z	
(D)=EXXXXX											
4	1	22137-080000	WASHER, 8	1	1	1	1				
5	1	22217-080000	WASHER, SPRING 8	1	1	1	1				
6	1	26106-080162	BOLT, M8X 16 PLATED	1	1	1	1				
7	1	124060-39451	SWITCH, 0.2KG	1	1						
7-1	1	124060-39452	SWITCH, 0.2KG	1	1	1	1			N	
(A)=*2000.02 (B)=*2000.02											
8	1	128170-91160	SENSOR	1	1	1	1				
9	1	127610-91350	SWITCH, 95	1	1	1	1				
10	1	23876-010000	PLUG, R01	1	1	1	1				
11	1	43580-500680	DAMPER ASSY, PT1/8	1	1	1	1				
12	1	129593-91420	SWITCH	1	1	1	1				
13	1	23414-260000	GASKET, 26X1.0	1	1	1	1				
14	1	129490-77910	RELAY, STARTER	1	1	1	1				
14-1	1	119575-77510	RELAY, STARTER	1	1	1	1			F	1
(A)=*2004.06 (B)=*2004.06 (C)=E00552 (D)=E00593											
15	1	129573-77951	BRACKET	1	1	1	1				
15-1	1	129573-77952	BRACKET	1	1	1	1			S	
(A)=*2007.01 (B)=*2007.01 (C)=E03293 (D)=E03245											
16	1	129573-77960	HARNESS, WIRE	1	1	1	1				
17	1	26106-060082	BOLT, M6X 8 PLATED	2	2	2	2				
17-1	1	26106-060202	BOLT, M6X 20 PLATED	2	2	2	2			F	1
(A)=*2004.06 (B)=*2004.06 (C)=E00552 (D)=E00593											
18	1	26106-100252	BOLT, M10X 25 PLATED	2	2	2	2				
19	1	22217-060000	WASHER, SPRING 6	2	2	2	2				
20	1	26106-100162	BOLT, M10X 16 PLATED				2				
21	1	177074-06350	HARNESS, WIRE				1				
22	1	120270-77101	SWITCH, SAFETY				1				
23	1	183350-55130	WASHER	1	1	1	1			W	1
(A)=*2004.06 (B)=*2004.06 (C)=E00552 (D)=E00593											
24	1	124770-49310	RETAINER				1			W	
(D)=EXXXXX											
25	1	123682-77710	PROTECTOR				1			W	
(D)=EXXXXX											

Remarks
(1)Interchangeable by simultaneous replacement with Ref.No.14-1, 17-1, 23.
(2)Support for DENSO generator.

Fig.36. INSTRUMENT PANEL(B TYPE)

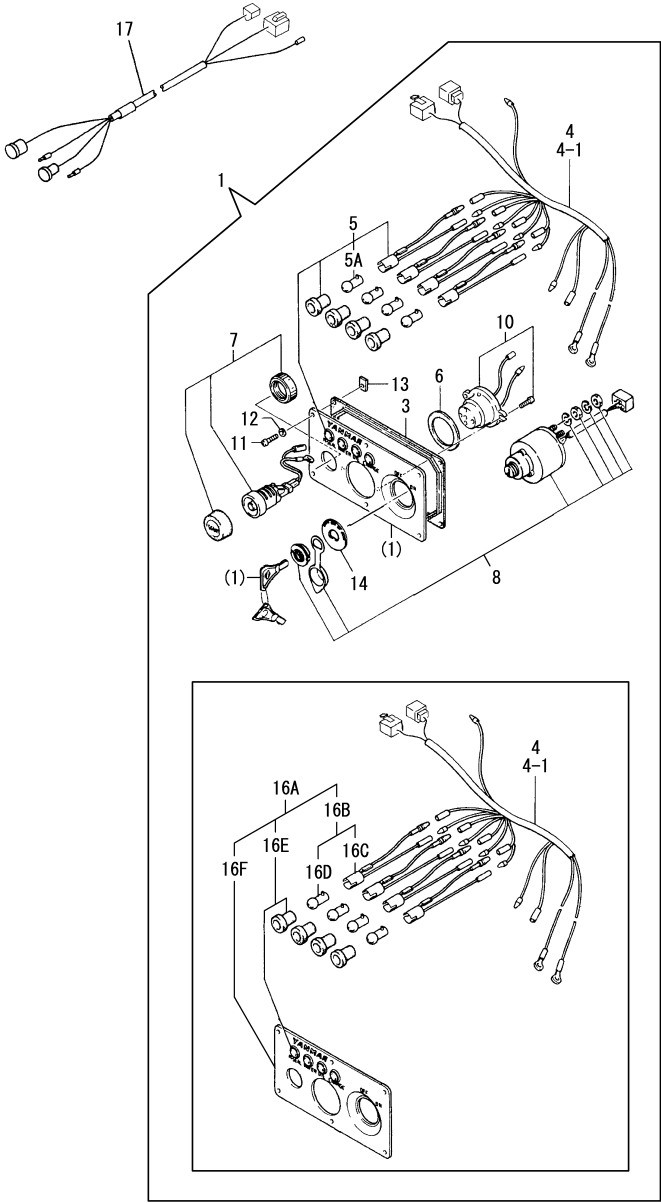
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Remarks
(1)OPTIONAL
(2)NOT NEEDED WHEN MOUNTING ON THE
SIDE.

				OCF10-M57301 Fig.36					
				(A)=3JH3Z1 (B)=3JH3Z2 (C)=3JH3Z		(D)=3JH3 (E)= (F)=		Q'ty	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	129495-91130	PANEL ASSY, INSTRUM	1	1	1	1		
2	2	129574-91200	METER KIT	1	1	1	1		
3	2	129574-91870	HARNESS, WIRE	1	1	1	1		
4	2	124617-91980	BULB, 12V-1.7W	5	5	5	5		
5	2	129495-91260	BOX	1	1	1	1		
6	2	129495-91860	HARNESS, WIRE	1	1	1	1		
7	2	127687-91870	BOLT, M6X35	6	6	6	6		
8	2	129170-91650	COVER	1	1	1	1		
9	2	129574-91410	BRACKET, SWITCH	1	1	1	1		
10	2	121575-91250	SWITCH, KEY	1	1	1	1		
11	2	123482-91291	KEY	1	1	1	1		
12	2	104271-91352	BUZZER	1	1	1	1		
13	2	129170-91800	SWITCH	1	1	1	1		
14	2	129574-91780	CAP, RUBBER	2	2	2	2		
15	2	129574-91790	SWITCH	1	1	1	1		
16	2	129470-91190	SWITCH, STOP	1	1	1	1		
17	2	129170-91810	COVER	1	1	1	1		
18	2	128391-91930	PANEL	1	1	1	1		
19	2	129574-91620	BEZEL	1	1	1	1		
20	2	129574-91420	BRACKET	1	1	1	1		
21	2	129574-91720	GASKET	1	1	1	1		
22	2	128391-91640	BEZEL	1	1	1	1		
23	2	128391-91440	PLATE	1	1	1	1		
24	2	128391-91740	GASKET	1	1	1	1		
25	2	129170-91610	BEZEL	1	1	1	1		
26	2	129574-91710	GASKET	1	1	1	1		
27	2	129574-91750	GASKET	1	1	1	1		
28	2	129574-91770	KNOB	2	2	2	2		
29	2	129574-91650	BEZEL	1	1	1	1		
30	2	127692-91410	SCREW	8	8	8	8		
31	2	127692-91440	SCREW	4	4	4	4		
32	2	127692-91450	SCREW	2	2	2	2		
33	2	129570-91850	HARNESS, WIRE	1	1	1	1		
34	3	124617-91990	FUSE	1	1	1	1		
35	2	128391-91700	GASKET	1	1	1	1		
36	2	127687-91880	WASHER	6	6	6	6		
37	2	129574-91760	COVER	1	1	1	1		
38	1	129574-77720	HARNESS, WIRE 6M	1	1	1	1		
39	1	128391-77700	HARNESS, WIRE	1	1	1	1		1
40	1	127692-91700	HARNESS, WIRE	1	1	1	1		1
41	1	127692-91710	HARNESS, WIRE	1	1	1	1		1
42	1	129574-91540	BRACKET	1	1	1	1		1
43	1	129574-91550	BRACKET	1	1	1	1		1
44	1	129574-91900	COVER ASSY	1	1	1	1		1
45	2	129574-91950	COVER, PANEL	1	1	1	1		
46	2	129574-91960	COVER, PANEL	1	1	1	1		
47	2	129574-91970	COVER, PANEL	1	1	1	1		
48	2	26559-060122	SCREW, M6X12	2	2	2	2		
49	2	26556-060122	SCREW M 6X12	4	4	4	4		2
50	2	26716-060002	NUT, M6	4	4	4	4		2
51	1	129574-91530	BRACKET, PANEL	2	2	2	2		1

Fig.37. INSTRUMENT PANEL(A TYPE)(OPTIONAL)

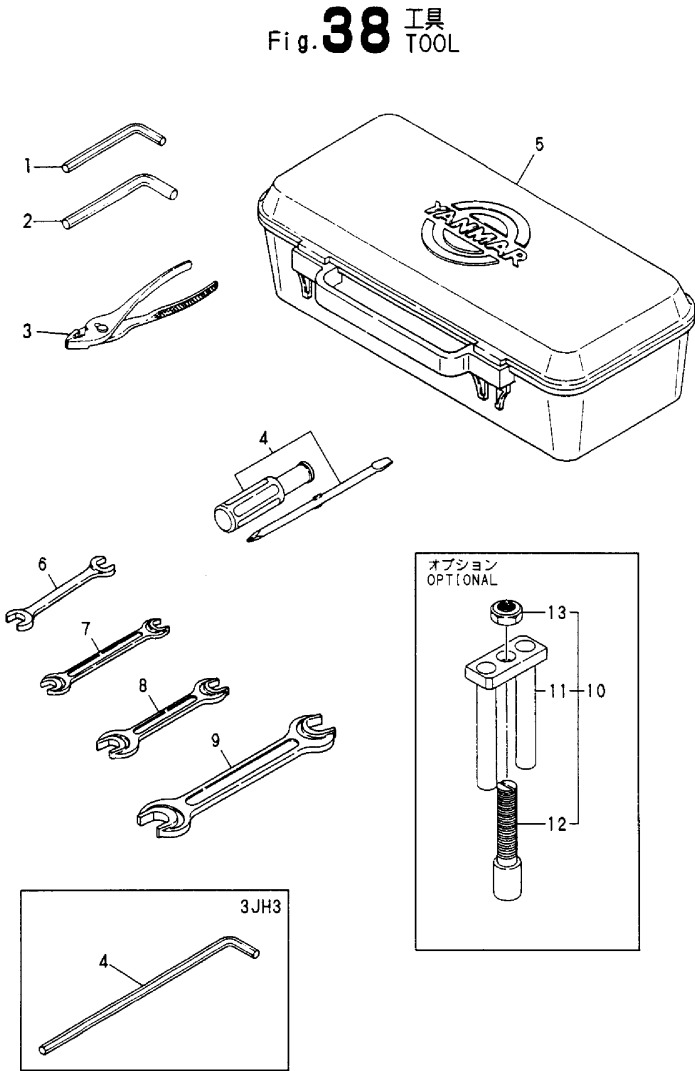


Remarks
(1)These items are no longer available.
No.16A is a substitue parts.

				0CF10-M57301		Fig.37					
				(A)=3JH3Z1 (B)=3JH3Z2 (C)=3JH3Z		(D)=3JH3 (E)= (F)=					
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128695-91002	PANEL ASSY	1	1	1					1
1-1	1	128695-91003	PANEL ASSY, A	1	1	1				N	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
3	2	128270-91020	GASKET	1	1	1					
4	2	128695-91132	HARNESS, WIRE	1	1	1					
4-1	2	128695-91200	HARNESS, WIRE	1	1	1				S	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
5	2	128270-91040	LAMP, PILOT	4	4	4				Z	1
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
5A	3	46150-001110	BULB, 12V3W/G11BA9S	4	4	4				Z	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
6	2	128270-91360	GASKET	1	1	1					
7	2	129470-91190	SWITCH, STOP	1	1	1					
8	2	121575-91250	SWITCH, KEY	1	1	1					
10	2	128270-91350	BUZZER, ALARM	1	1	1					
11	2	128170-91810	SCREW, M5X35	6	6	6					
12	2	128170-91820	WASHER, 5	6	6	6					
13	2	128170-91830	NUT, M5	6	6	6					
14	2	128695-91270	LABEL	1	1	1					
16A	2	128695-91500	VISOR ASSY,SPARE PAR	1	1	1				W	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
16B	3	128270-91260	LAMP ASSY,CODE	4	4	4				W	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
16C	4	128270-91270	CORD ASSY	4	4	4				W	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
16D	4	128270-91280	LAMP	4	4	4				W	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
16E	3	128270-91340	LENS ASSY	4	4	4				W	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
16F	3	128695-91600	VISOR	1	1	1				W	
		(A=*2015.04.)	(B=*2015.04.)	(C=*2015.04.)							
17	1	128391-77860	HARNESS ASSY, WIRE	1	1	1					

Fig.38. TOOL

Y00F5731



Remarks
(1)OPTIONAL

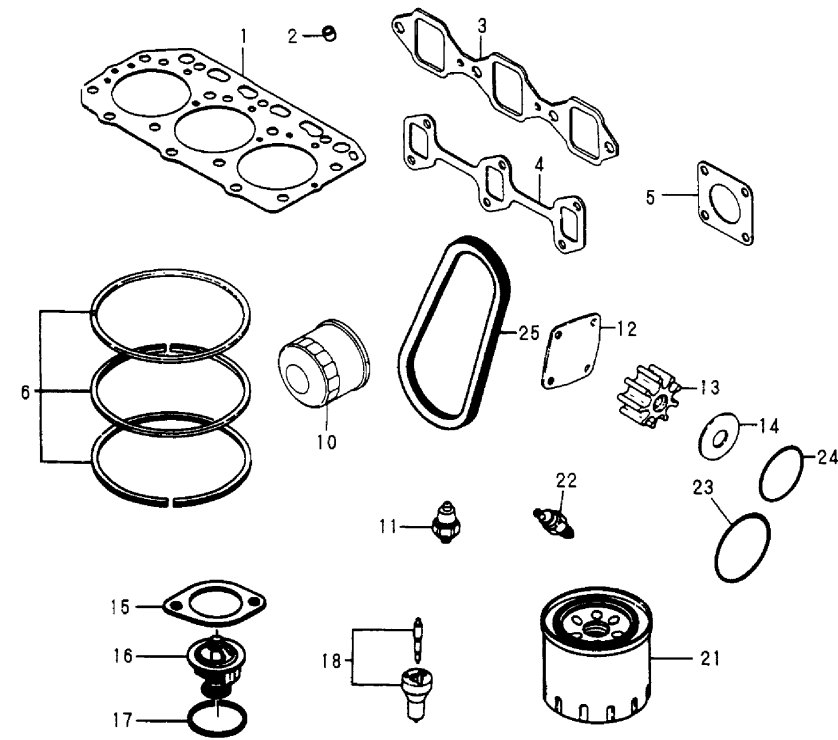
				OCF10-M57301 Fig.38						
				(A)=3JH3Z1 (B)=3JH3Z2 (C)=3JH3Z	(D)=3JH3 (E)= (F)=					
No.	Lev.	Parts No.	Description	Q'ty				I R		
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	28150-050000	WRENCH, BAR 5	1	1	1				
2	1	28150-060000	WRENCH, BAR 6	1	1	1				
3	1	189010-92020	PLIER	1	1	1				
4	1	104200-92350	DRIVER, SCREW	1	1	1	1			
5	1	104200-92600	BOX, TOOL	1	1	1	1			
6	1	28110-100130	SPANNER, 10X13	1	1	1	1			
7	1	28110-120140	SPANNER, 12X14	1	1	1	1			
8	1	28110-170190	SPANNER, 17X19	1	1	1	1			
9	1	28110-220240	SPANNER, 22X24	1	1	1	1			
10	1	129470-92300	TOOL ASSY, NOZZLE	1	1	1	1			1
11	2	129470-92310	TOOL,NOZZLE REMOVE A	1	1	1	1			
12	2	129470-92320	TOOL,NOZZLE REMOVE B	1	1	1	1			
13	2	26716-120002	NUT, M12	1	1	1	1			
14	1	177040-09050	WRENCH				1			

(A)=3JH3Z1
(B)=3JH3Z2
(C)=3JH3Z

(D)=3JH3
(E)=
(F)=

Y00F5731

Fig.39 スペアパーツ (オプション)
SPARE PART (OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129002-01331	GASKET, HEAD				1				
2	1	119625-11870	PROTECTOR, NOZZLE				3				
3	1	129150-12111	GASKET, MANIFOLD				1				
4	1	129150-13110	GASKET				1				
5	1	129472-18090	GASKET				1				
6	1	129690-22510	RING SET, PISTON				1				
10	1	129150-35151	FILTER, D80XL80				1				
11	1	124060-39452	SWITCH, 0.2KG				1				
12	1	129470-42520	COVER				1				
13	1	129470-42531	IMPELLER				1				
14	1	129573-42540	PLATE				1				
15	1	129795-49551	GASKET				1				
16	1	129470-49801	THERMOSTAT, 76.5				1				
17	1	129470-49810	GASKET, THERMOSTAT				1				
18	1	129270-53000	VALVE ASSY,INJECTION				3				
21	1	129470-55701	STRAINER ASSY, FUEL				1				
22	1	127610-91350	SWITCH, 95				1				
23	1	24321-000750	O-RING, 1AG75.0				2				
24	1	24341-000600	O-RING, 1AS60.0				1				
25	1	25132-004500	V-BELT, A45				1				

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	28	1
		9
102410-92940	5	6
104200-59170	28	4
104200-92350	38	4
104200-92600	38	5
104214-39720	3	21
104271-91352	36	12
104507-07190	4	19
114250-53080	26	5
114250-53120	26	9
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