



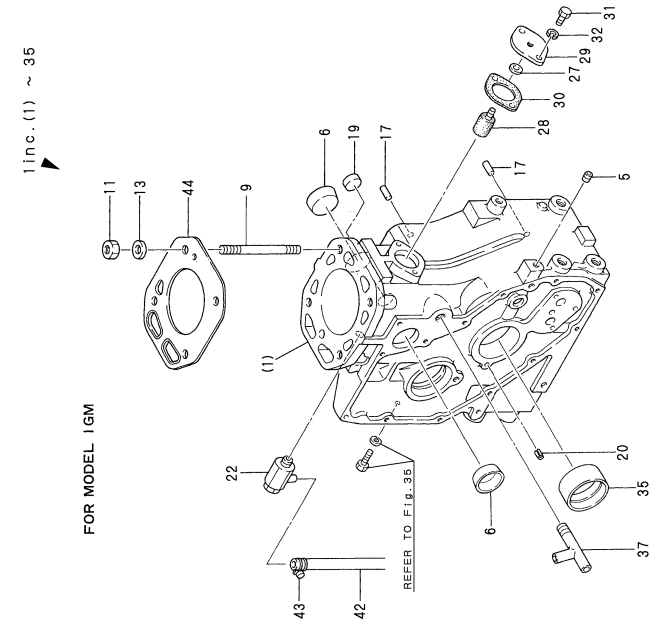
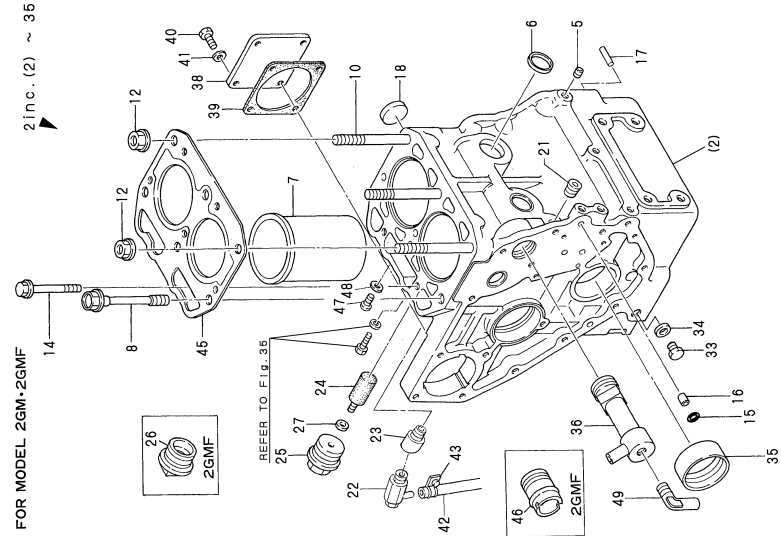
Spare parts catalog- Yanmar engines

- (A) = 1GM
- (B) = 2GM(F)
- (C) = 3GM(F)
- (D) = 3GMD
- (E) = 3HM
- (F) = 3HMF

Fig.1.CYLINDER BLOCK(1,2GM(F))

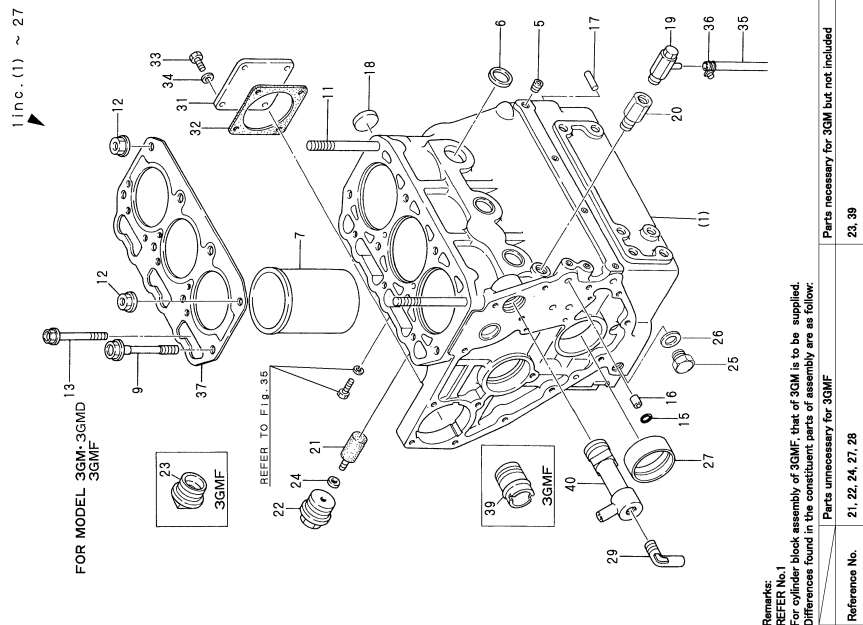
(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-01560	BLOCK ASSY, CYLINDER	1							
2	1	728270-01560	BLOCK ASSY, CYLINDER		1						
5	2	124060-01050	PLUG PT1/8	1	6						
6	2	105311-01090	PLUG 30 (SUS)	2	4						
7	2	121450-01100	LINER, CYLINDER		2						
8	2	121450-01203	BOLT, CYL. HEAD		3						
9	2	128170-01200	STUD, CYL. HEAD	4							
10	2	121450-01210	STUD, CYL. HEAD		3						
11	2	105025-01220	NUT 10	4							
12	2	121450-01220	NUT, CYL. HEAD		3						
13	2	105425-01250	WASHER	4							
14	2	121450-01231	BOLT, CYL. HEAD		2						
15	2	24311-000100	O-RING 1A P-10.0		2						
16	2	105225-01900	GUIDE,O-RING		2						
17	2	22312-080160	PARALLEL PIN 8X 16	2	2						
18	2	121450-01990	PLUG 30		1						
19	2	27243-200000	PLUG 20	1							
20	2	22351-040008	SPRING PIN 4X 8	1							
21	2	23873-020000	PLUG PT 1/4		1						
22	2	43600-500290	COCK 1/4	1	1						
23	2	128270-01890	SPACER PT1/4		1						W
(B-E/#00019)											
24	2	27210-200300	ZINC, ANTI-CORROSIVE		2						
25	2	128270-09300	PLUG NPTF 1"		1						
26	2	121750-01920	PLUG		1						
27	2	123210-09310	PACKING	1	2						
28	2	27210-200200	ZINC, ANTI-CORROSIVE	1							
29	2	128170-09320	FLANGE, ZINC	1							
30	2	104211-49160	PACKING	1							
31	2	26116-060142	BOLT M 6X 14	2							
32	2	22217-060000	SPRING WASHER 6	2							
33	2	121450-01960	PLUG PF1/4		1						
34	2	121450-01980	GASKET		1						
35	2	121450-02100	MAIN METAL	1	1						
36	1	128270-01450	CONNECTOR, BY-PATH		1						
37	1	105582-49090	3-WAY JOINT	1							
38	1	124240-01871	COVER, HO-P		1						
39	1	124240-01882	GASKET, HYD.OIL PUMP		1						
40	1	26116-080142	BOLT 8X14		4						
41	1	23414-080000	GASKET 8, ROUND		4						
42	1	23061-070200	PIPE 7X 200	1	1						
43	1	124460-77680	RETAINER	1	1						
44	1	128170-01330	GASKET, CYL. HEAD	1							
44-1	1	128170-01331	GASKET, CYL. HEAD	1							N
(A=*1981.01)											
45	1	128270-01330	GASKET, CYL. HEAD		1						
45-1	1	128270-01331	GASKET, CYL. HEAD		1						N
(B=*1980.11)											
46	1	124160-49480	JOINT, PIPE		1						
47	1	124060-32990	PLUG		1						
48	1	23414-080000	GASKET 8, ROUND		1						
49	1	105583-49910	ELBOW (PT1/4)		1						



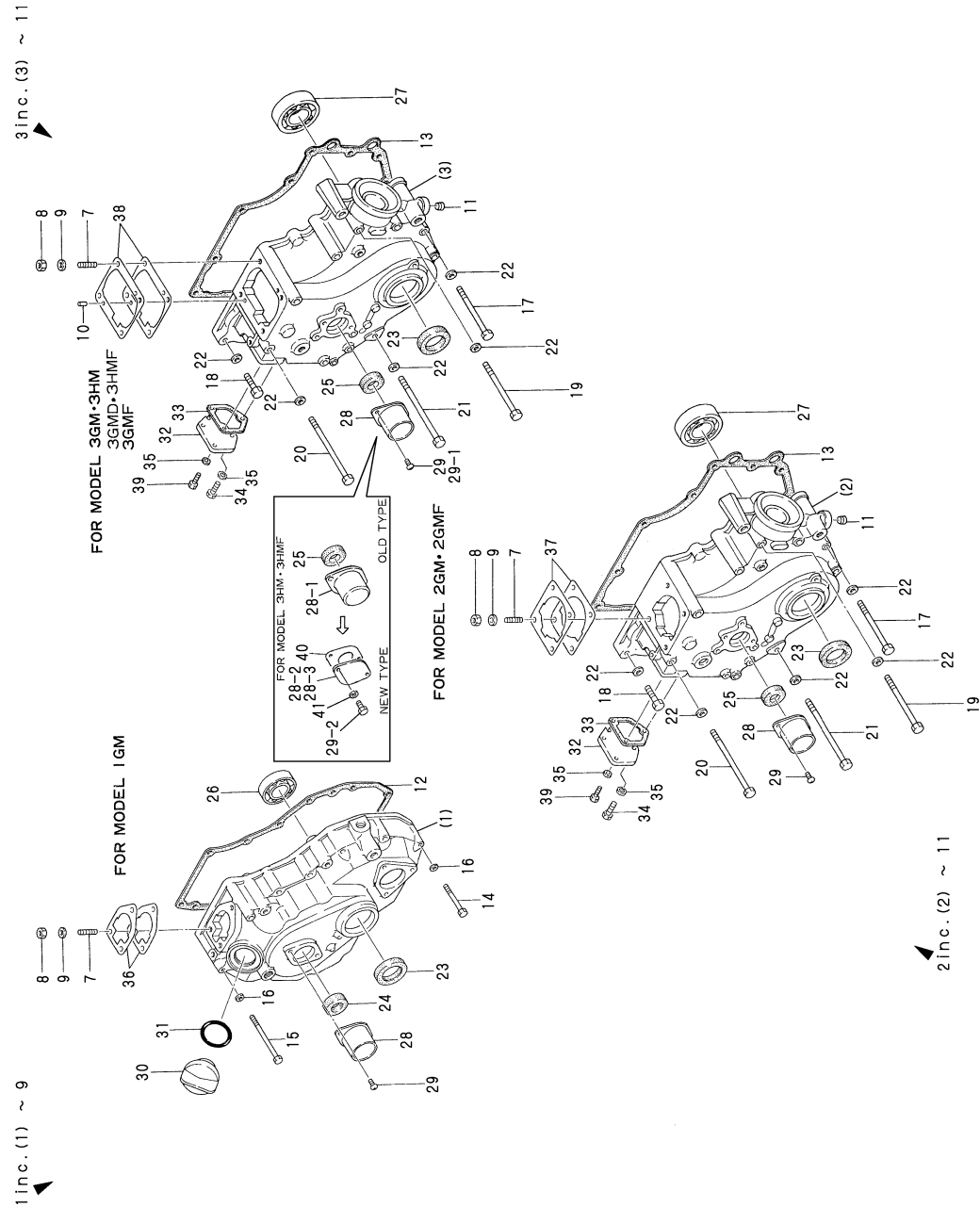
Remarks:
REFER No.2
For cylinder block assembly of 2GMF that of 2GM is to be supplied.
Differences found in the constituent parts of assembly are as follow:

Parts necessary for 2GM but not included	26, 46
Parts unnecessary for 2GMF	24, 25, 27, 35, 38
Reference No.	



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728370-01560	BLOCK ASSY, CYLINDER			1	1				
2	1	728670-01560	BLOCK ASSY, CYLINDER					1			
2-1	1	728670-01561	BLOCK ASSY, CYLINDER					1	1	N	
						(E=EXXX)					
5	2	124060-01050	PLUG PT1/8			7	7	7	7		
6	2	105311-01090	PLUG 30 (SUS)			5	5	5	5		
7	2	121450-01100	LINER, CYLINDER			3	3				
8	2	121575-01100	SLEEVE, CYLINDER					3	3		
9	2	121450-01203	BOLT, CYL. HEAD			6	6				
10	2	121575-01200	STUD, CYL. HEAD					6	6		
11	2	121450-01210	STUD, CYL. HEAD			2	2	2	2		
12	2	121450-01220	NUT, CYL. HEAD			2	2	8	8		
13	2	121450-01231	BOLT, CYL. HEAD			3	3	3			
14	2	129350-01230	BOLT, CYL. HEAD					3	3		
15	2	24311-000100	O-RING 1A P-10.0			2	2	2	2		
16	2	105225-01900	GUIDE,O-RING			2	2	2	2		
17	2	22312-080160	PARALLEL PIN 8X 16			1	1	1	1		
18	2	121450-01990	PLUG 30			1	1	1	1		
19	2	43600-500290	COCK 1/4			1	1	1	1		
20	2	124085-01880	CONNECTOR PT1/4			1	1				
21	2	27210-200300	ZINC, ANTI-CORROSIVE			2	2	2			
22	2	128270-09300	PLUG NPTF 1"			2	2	2			
23	2	121750-01920	PLUG			2				2	
24	2	123210-09310	PACKING			2	2	2			
25	2	121450-01960	PLUG PF1/4			1	1				
26	2	121450-01980	GASKET			1	1				
27	2	121450-02100	MAIN METAL			1	1				
28	2	121550-02100	MAIN METAL							1	1
29	1	105583-49910	ELBOW (PT1/4)			1	1				
30	1	124070-13300	ELBOW (PT3/8)					1			
31	1	124240-01871	COVER, HO-P			1	1	1	1		
32	1	124240-01882	GASKET, HYD.OIL PUMP			1	1	1	1		
33	1	26116-080142	BOLT 8X14			4	4	4	4		
34	1	23414-080000	GASKET 8, ROUND			4	4	4	4		
35	1	23061-070200	PIPE 7X 200			1	1	1	1		
36	1	124460-77680	RETAINER			1	1	1	1		
37	1	128370-01330	GASKET, CYL. HEAD			1					
37-1	1	128370-01331	GASKET, CYL. HEAD			1	1				N
			(C=E/#00413)								
38	1	121575-01331	GASKET, CYL. HEAD						1		
38-1	1	121575-01332	GASKET, CYL. HEAD						1	1	N
						(E=EXXX)			(F=EXXX)		
38-2	1	121575-01333	GASKET, CYL. HEAD						1	1	N
						(E=*1980.11)			(F=*1980.11)		
39	1	124160-49480	JOINT, PIPE			1			1		
40	1	128270-01450	CONNECTOR, BY-PATH			1	1				
41	1	128670-01450	CONNECTOR, BY-PATH						1		

Fig.3.GEAR HOUSING

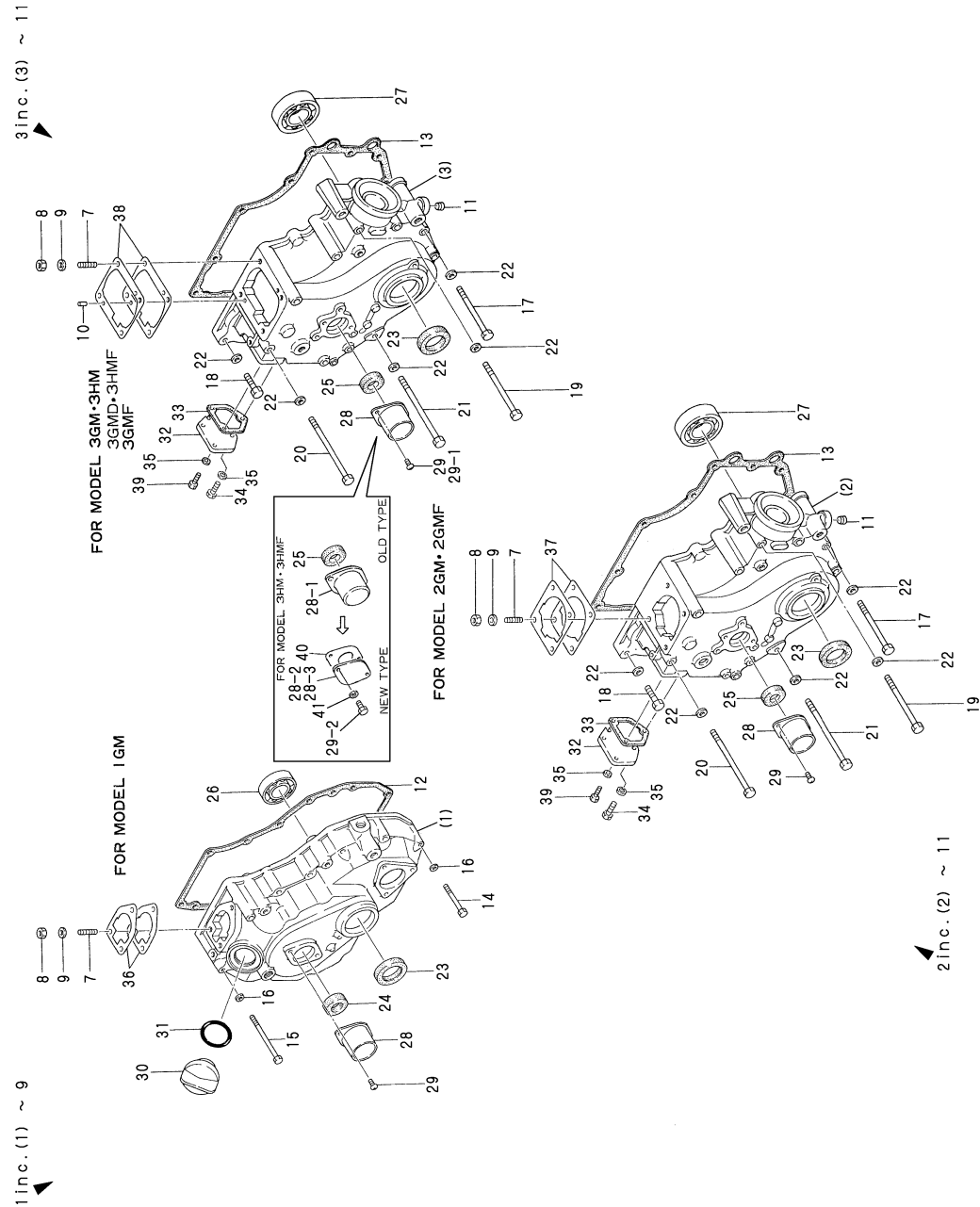


Y00R0902 3.GEAR HOUSING

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-01610	HOUSING ASSY, GEARS	1							
2	1	728270-01610	HOUSING ASSY, GEARS		1						
3	1	728370-01610	HOUSING ASSY, GEARS			1	1	1	1		
7	2	26216-080222	STUD M 8X 22 PLATED	3	4	4	4	4	4		
7-1	2	121450-01560	STUD M 8X 22		4	4	4	4	4		R
		(B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
8	2	26716-080002	NUT M 8	3	4	4	4	4	4		
9	2	43400-500410	SEAL WASHER 8S	3	4	4	4	4	4		
9-1	2	23414-080000	GASKET 8, ROUND	3	4						S
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
9-2	2	22212-080000	SPRING WASHER 8		4	4	4	4	4		R
		(B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
10	2	22315-040010	SPRING PIN 4X 10			2	2	2	2		
11	2	124060-01050	PLUG PT1/8		1	1	1	1	1		
12	1	128170-01510	GASKET, GEAR CASE	1							
13	1	121575-01510	GASKET, GEAR HOUSING		1	1	1	1	1		
14	1	26116-060502	BOLT M 6X 50 PLATED	7							
15	1	26116-060802	BOLT M 6X 80 PLATED	5							
16	1	22117-060000	WASHER 6	12							
17	1	26116-080852	BOLT M 8X 85 PLATED		5	5	5	5	5		
18	1	26116-080302	BOLT 8X30		2	2	2	2	2		
19	1	26116-080952	BOLT M 8X 95 PLATED		1	1	1	1	1		
20	1	26116-081152	BOLT M 8X115 PLATED		2	2	2	2	2		
21	1	26116-081202	BOLT M 8X120 PLATED		2	2	2	2	2		
22	1	22137-080000	WASHER 8, POLISHED		12	12	12	12	12		
23	1	121450-01800	SEAL, OIL	1	1	1	1	1	1		
23-1	1	121450-01801	SEAL TC25 40 8, OIL	1	1	1	1	1	1		N
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
24	1	145410-46960	OIL SEAL	1							
25	1	128270-01820	SEAL SC16 28 6, OIL		1	1	1	1	1		
25-1	1	128270-01820	SEAL SC16 28 6, OIL							1	Z
		(E=EXXX) (F=EXXX)									
26	1	24101-060054	BALL BEARING	1							
27	1	24101-063054	BEARING #6305		1	1	1	1			
27-1	1	24101-063050	BALL BEARING		1	1	1	1	1		R
		(B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX)									
28	1	128170-01830	BRACKET (B), REAR	1	1	1	1	1			
28-1	1	128670-01830	COVER, BLIND						1	1	N
		(E=EXXX)									
28-2	1	121023-01550	COVER, BLIND						1	1	R
		(E=EXXX) (F=EXXX)									
28-3	1	171016-01550	LEVER						1	1	R
		(E=EXXX) (F=EXXX)									
29	1	26557-060102	SCREW 6X10	2	2	2	2	2			
29-1	1	28116-060162	BOLT 6X16						2	2	S
		(E=EXXX)									
29-2	1	26116-060122	BOLT 6X12						2	2	S
		(E=EXXX) (F=EXXX)									
30	1	124160-01751	COVER,FILLER	1							
31	1	24321-000350	O-RING 1A G-35.0	1							
32	1	121000-01850	COVER, CYL BLOCK		1	1	1	1	1		
33	1	121575-01860	GASKET, COVER		1	1	1	1	1		
34	1	26116-060142	BOLT M 6X 14		3	3		3			
34-1	1	26116-060142	BOLT M 6X 14		1	1	1	1	1	1	K

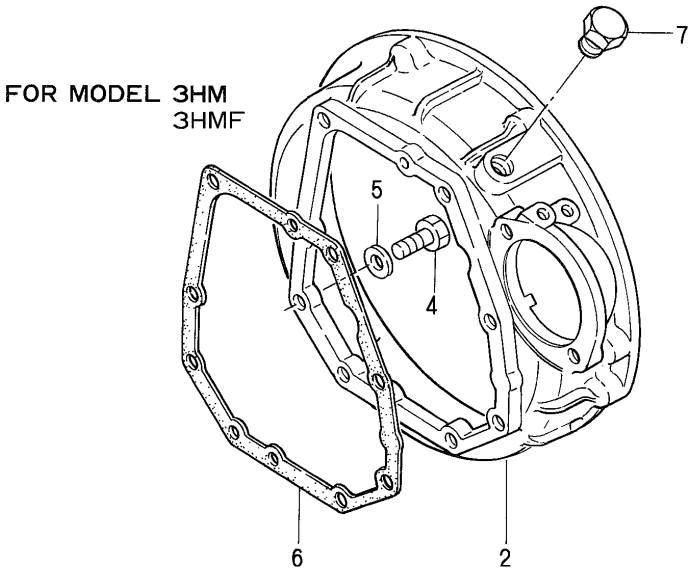
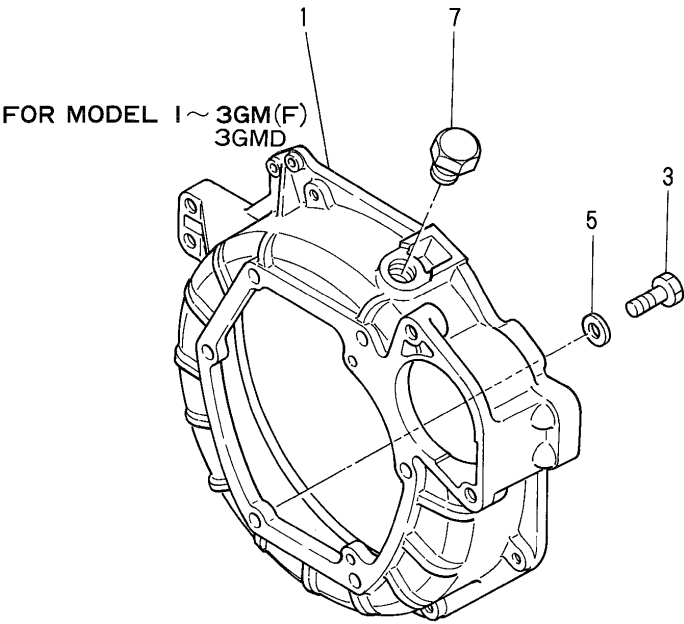
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Fig.3.GEAR HOUSING



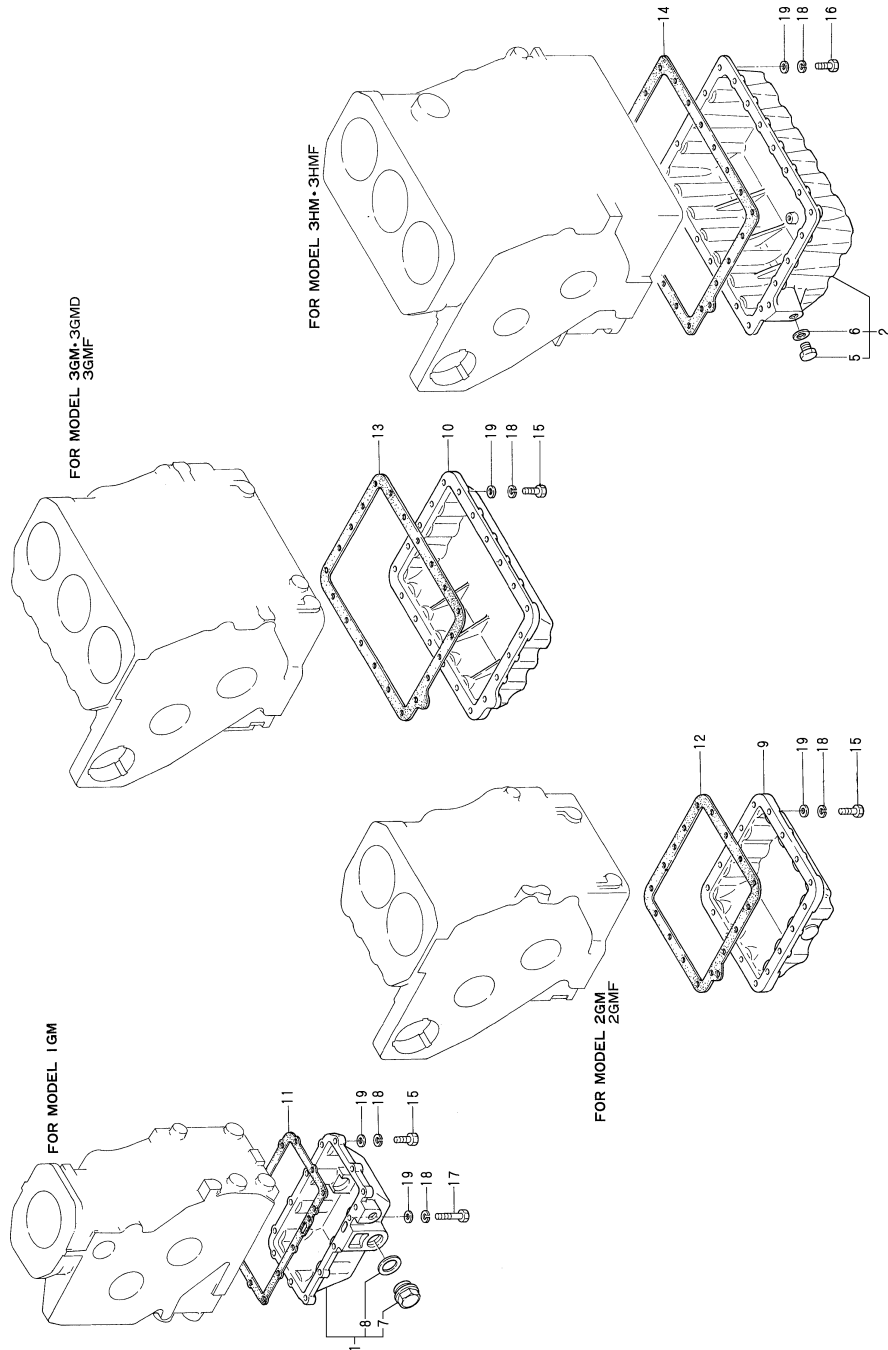
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
				(A)	(B)	(C)	(D)	(E)	(F)		
		(B=E XXX)	(C=E XXX)		(E=E XXX)						
35	1	22217-060000	SPRING WASHER 6		3	3	3	3	3		
36	1	104271-01950	SHIM SET	1							
37	1	124950-01951	SHIM SET		1						
38	1	121450-01951	SHIM SET			1	1	1	1		
39	1	26116-060162	BOLT 6X16		2	2	2	2	2	W	
		(B=E XXX)	(C=E XXX)	(D=E XXX)	(E=E XXX)			(F=E XXX)			
40	1	128695-01840	PACKING					1	1	W	
					(E=E XXX)			(F=E XXX)			
41	1	22137-060000	WASHER 6, POLISHED					2	2	W	
					(E=E XXX)			(F=E XXX)			

Fig.4.FLYWHEEL HOUSING



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-01600	FLANGE, MOUNTING	1	1	1	1				
2	1	121574-01600	FLANGE, MOUNTING					1	1		
3	1	26116-100252	BOLT M10X 25 PLATED	6	6	6	6				
4	1	26116-100302	BOLT 10X30					8	8		
5	1	22117-100000	WASHER 10	6	6	6	6	8	8		
6	1	121574-01630	GASKET					1	1		
7	1	23883-180002	PULG M18,HEX.	1	1	1		1			
7-1	1	23887-180002	PLUG 18	1	1	1	1	1	1	R	
(A=EXXX) (B=EXXX) (C=EXXX)				(E=EXXX)							

Fig.5.LUB.OIL SUMP

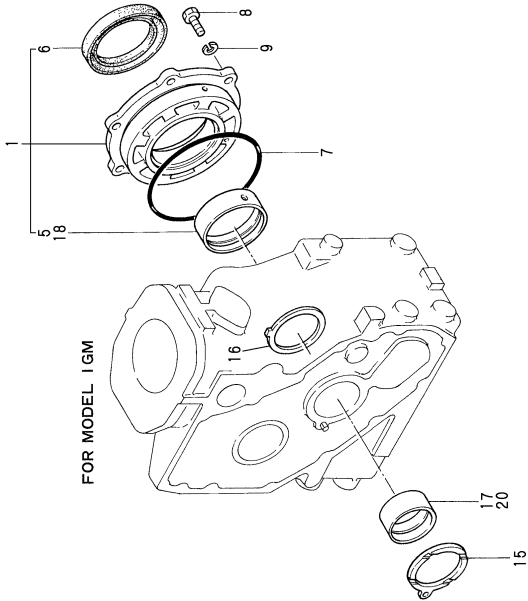
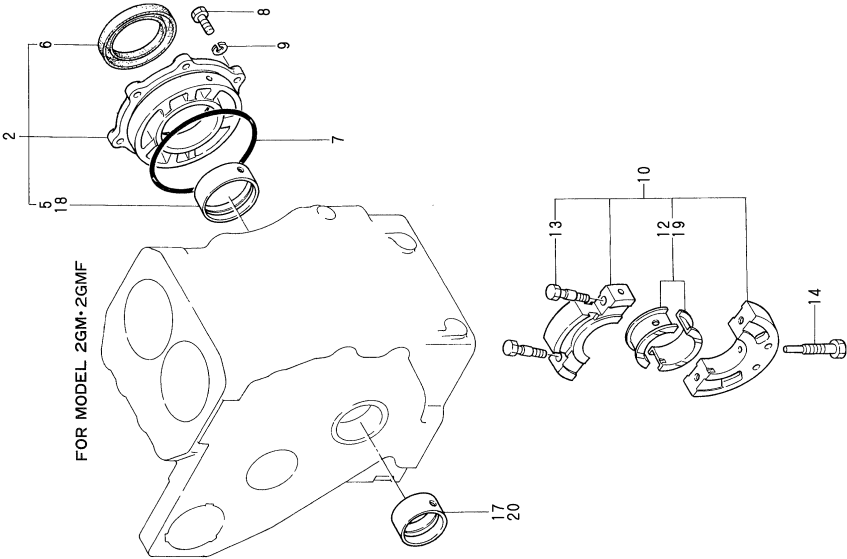


Y00R0902 5.LUB.OIL SUMP

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-01540	SUMP ASSY, LUB OIL	1							
2	1	721575-01540	SUMP ASSY, LUB OIL					1	1		
5	2	23893-020002	PLUG PF1/4					1	1		
5-1	2	23894-020002	PLUG G1/4,HEX.					1	1	R	
6	2	23414-130000	GASKET 13, ROUND			(E=EXXX)		(F=EXXX)	1	1	
7	2	105430-01690	PLUG, DRAIN	1							
8	2	43400-500570	SEAL WASHER 24S	1							
9	1	128270-01720	PAN, LUB OIL		1						
10	1	128370-01720	PAN, LUB OIL			1	1				
11	1	128170-01750	GASKET, OIL SUMP	1							
12	1	124000-01750	GASKET, OIL SUMP		1						
13	1	121450-01751	GASKET, OIL SUMP			1	1				
14	1	121575-01750	GASKET, OIL SUMP					1	1		
15	1	26116-060202	BOLT M 6X 20	12	17	21	21		1		
16	1	26116-060252	BOLT 6X25					23	23		
17	1	26116-060352	BOLT M 6X 35 PLATED	1							
18	1	22217-060000	SPRING WASHER 6	13	17	21	21	23	23		
19	1	22137-060000	WASHER 6, POLISHED	13	17	21	21	23	23		

Fig.6.MAIN METAL HOUSING(1,2GM(F))



Y00R0902 6.MAIN METAL HOUSING(1,2GM(F))

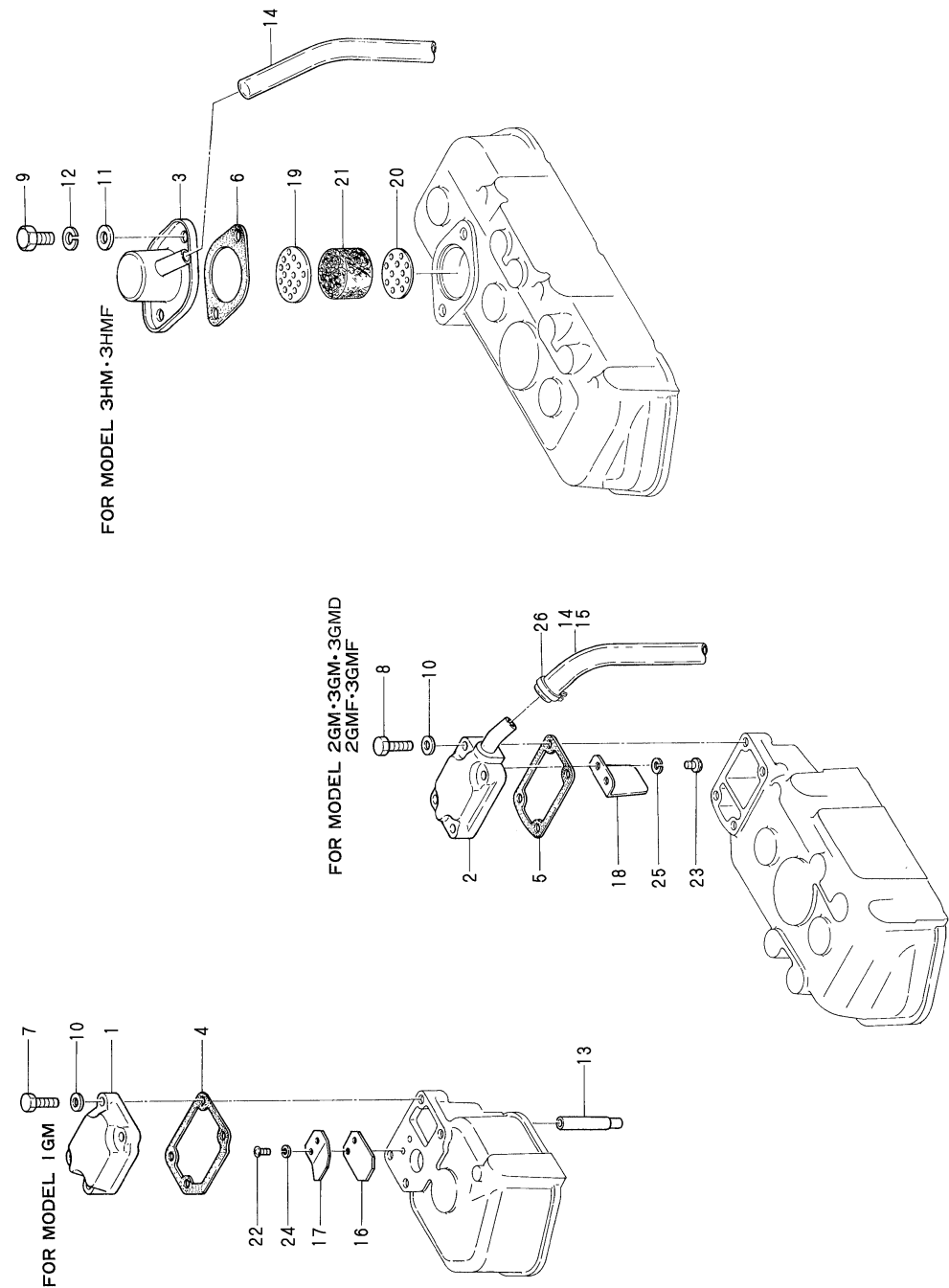
(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-02500	HOUSING ASSY,BEARING	1							
2	1	721450-02500	HOUSING ASSY METAL		1						
5	2	121450-02110	MAIN METAL	1	1						
6	2	124450-02220	SEAL, OIL	1	1						
6-1	2	124085-02220	SEAL, OIL	1	1						N
		(A=EXXX)	(B=EXXX)								
7	1	105225-02020	O-RING	1	1						
8	1	26116-080202	BOLT M 8X 20 PLATED	6	6						
9	1	22217-080000	SPRING WASHER 8	6	6						
10	1	721450-02611	HOUSING ASSY		1						
12	2	121450-02160	MAIN METAL(1)		1						
13	2	121450-02071	BOLT		2						
14	1	105225-02300	BOLT		1						
15	1	128170-02090	BEARING THRUST	1							
16	1	104200-02110	BEARING THRUST	1							
17	1	121450-02100	MAIN METAL	1	1						
18	1	121450-02320	MAIN METAL 0.25US	1	1						
19	1	121450-02370	MAIN METAL 0.25US		1						
20	1	121450-02310	MAIN METAL 0.25US	1	1						



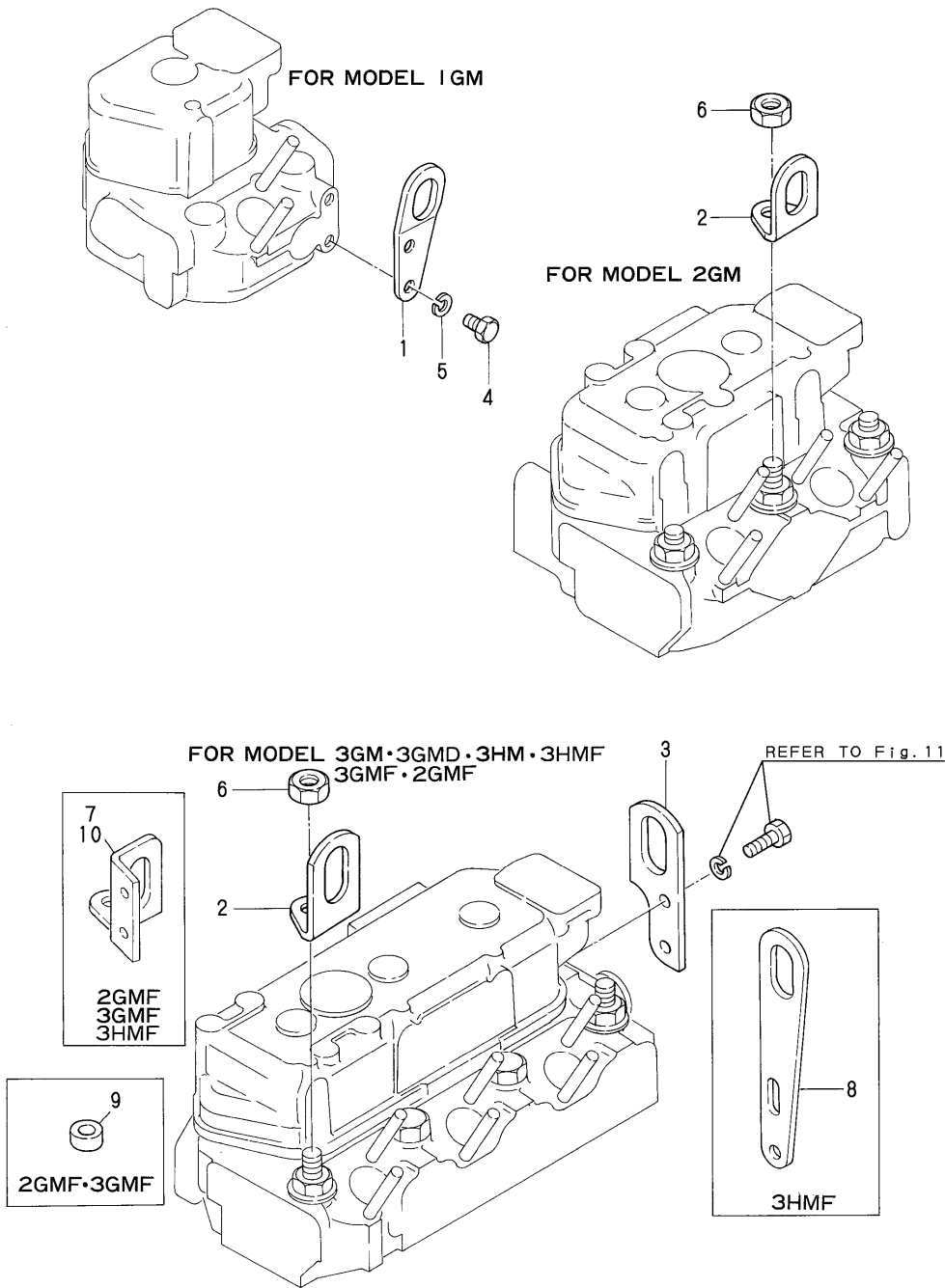
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Fig.8.BREATHER



REF.	LEV.	PARTS NO.	DESCRIPTION	(A)=1GM (B)=2GM(F) (C)=3GM(F) (D)=3GMD (E)=3HM (F)=3HMF						I	R
				Q'TY							
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-03020	COVER, BREATHER	1							
2	1	121000-03020	COVER, BREATHER		1	1	1				
3	1	128670-03010	BODE, BREATHER					1	1		
4	1	128170-03070	GASKET	1							
5	1	121000-03070	GASKET		1	1	1				
6	1	121450-03071	GASKET					1	1		
7	1	26116-060202	BOLT M 6X 20	4							
8	1	26116-060252	BOLT 6X25		4	4	4				
9	1	26116-080142	BOLT 8X14					2	2		
10	1	22117-060000	WASHER 6	4	4	4	4				
11	1	22137-080000	WASHER 8, POLISHED					2	2		
12	1	22217-080000	SPRING WASHER 8					2	2		
13	1	128170-03200	PIPE, BREATHER	1							
14	1	124000-03200	PIPE, BREATHER		1			1	1		
15	1	121000-03200	PIPE, BREATHER			1	1				
16	1	101158-03061	VALVE, CHECK	1							
17	1	101158-03111	RETAINER	1							
18	1	121000-03080	PLATE, SHELTER		1	1	1				
19	1	128670-03020	PLATE (A), SHELTER					1	1		
20	1	128670-03030	PLATE, BAFFLE					1	1		
21	1	128670-03040	STEEL WOOL D34T19					1	1		
22	1	26557-040082	SCREW M 4X 8	2							
23	1	26557-050102	SCREW M 5X 10		2	2	2				
24	1	22217-040000	SPRING WASHER 4	2							
25	1	22217-050000	SPRING WASHER 5		2	2	2				
26	1	23080-013000	CLAMP 13,HOSE		2	2	2				

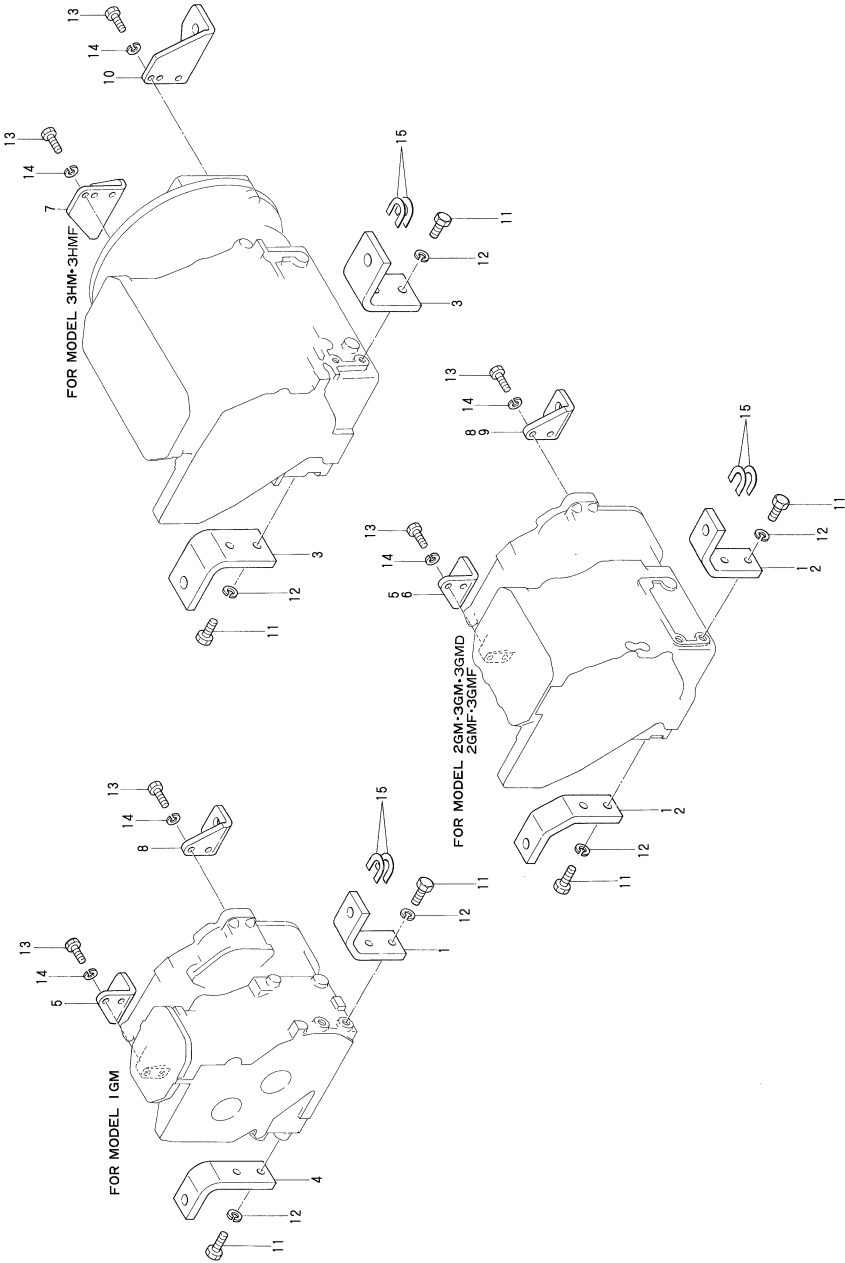
Fig.9.ENGINE LIFTER



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-07230	LIFTER, ENGINE	1							
2	1	121575-07230	LIFTER, ENGINE		1	1	1	1			
3	1	121575-07240	LIFTER, ENGINE		1	1	1	1			
4	1	26116-080142	BOLT 8X14	2							
5	1	22217-080000	SPRING WASHER 8	2							
6	1	26776-120002	LOCK NUT M12 PLATED		1	1	1	1	1		
7	1	128695-07230	LIFTER, ENGINE							1	
8	1	124736-07900	LIFTER, ENGINE							1	
9	1	123372-03150	SPACER		2	2					
10	1	128695-07230	LIFTER, ENGINE		1	1					

Fig.10.MOUNTING FOOT

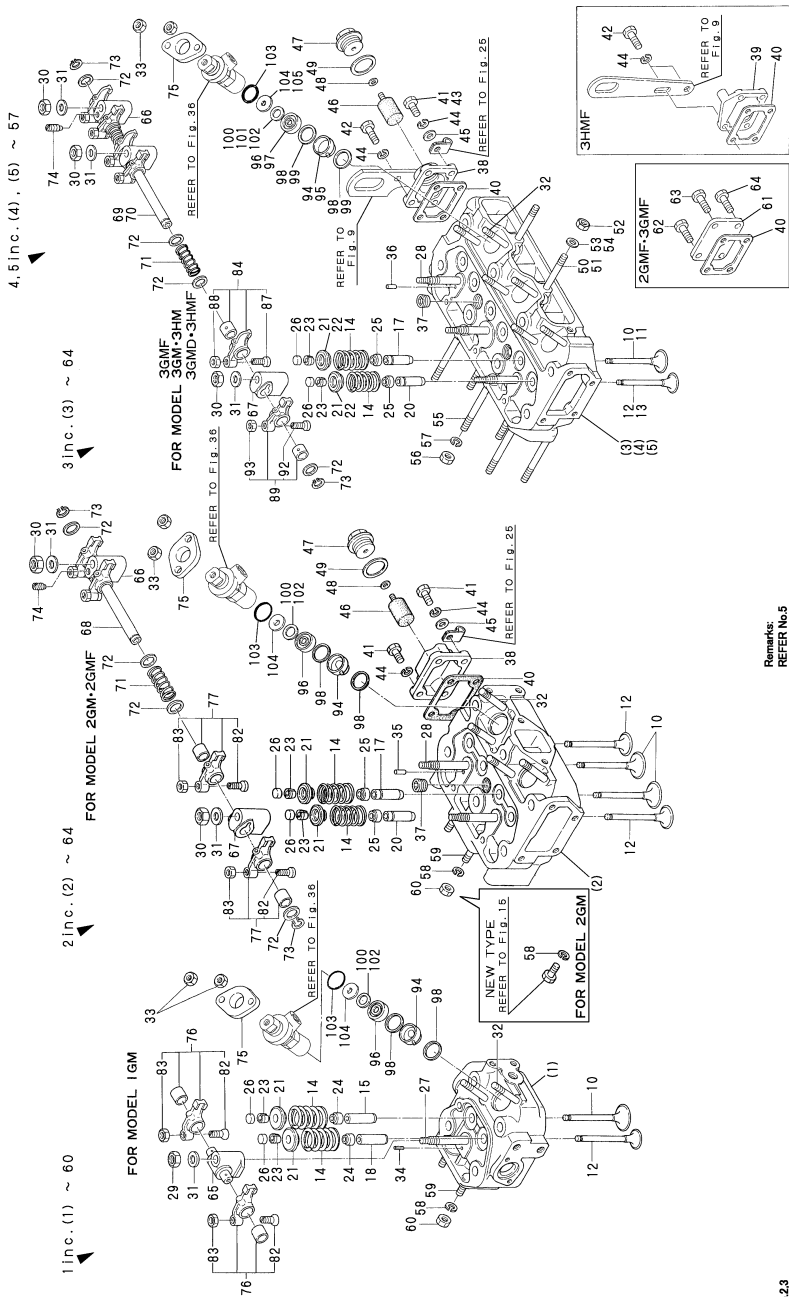


Remarks
(1)3GM

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-08100	BRACKET (A), ENGINE	1	2	2	2				
2	1	128370-08100	BRACKET (A), ENGINE			2					1
3	1	128670-08100	BRACKET (A), FRONT					2	2		
4	1	128170-08110	BRACKET (B), ENGINE	1							
5	1	128170-08120	BRACEKT (A), REAR	1	1	1	1				
6	1	128370-08120	BRACEKT (A), REAR			1					1
7	1	128670-08120	BRACKET (A), REAR					1	1		
8	1	128170-08130	BRACKET(B), REAR	1	1	1	1				
9	1	128370-08130	BRACKET(B), REAR			1					1
10	1	128670-08130	BRACKET (B), REAR					1	1		
11	1	26116-120302	BOLT M12X 30 PLATED	4	4	4	4	4	4		
12	1	22217-120000	SPRING WASHER	4	4	4	4	4	4		
13	1	26116-100302	BOLT 10X30	4	4	4	4	4	4		
14	1	22217-100000	SPRING WASHER 10	4	4	4	4	4	4		
15	1	124223-92800	SHIM SET ASSY, FOOT	4	4	4		4			Z
(A=*1980.07)		(B=E#00018)		(C=E#00011)		(E=E#00018)					

Fig.11.CYLINDER HEAD



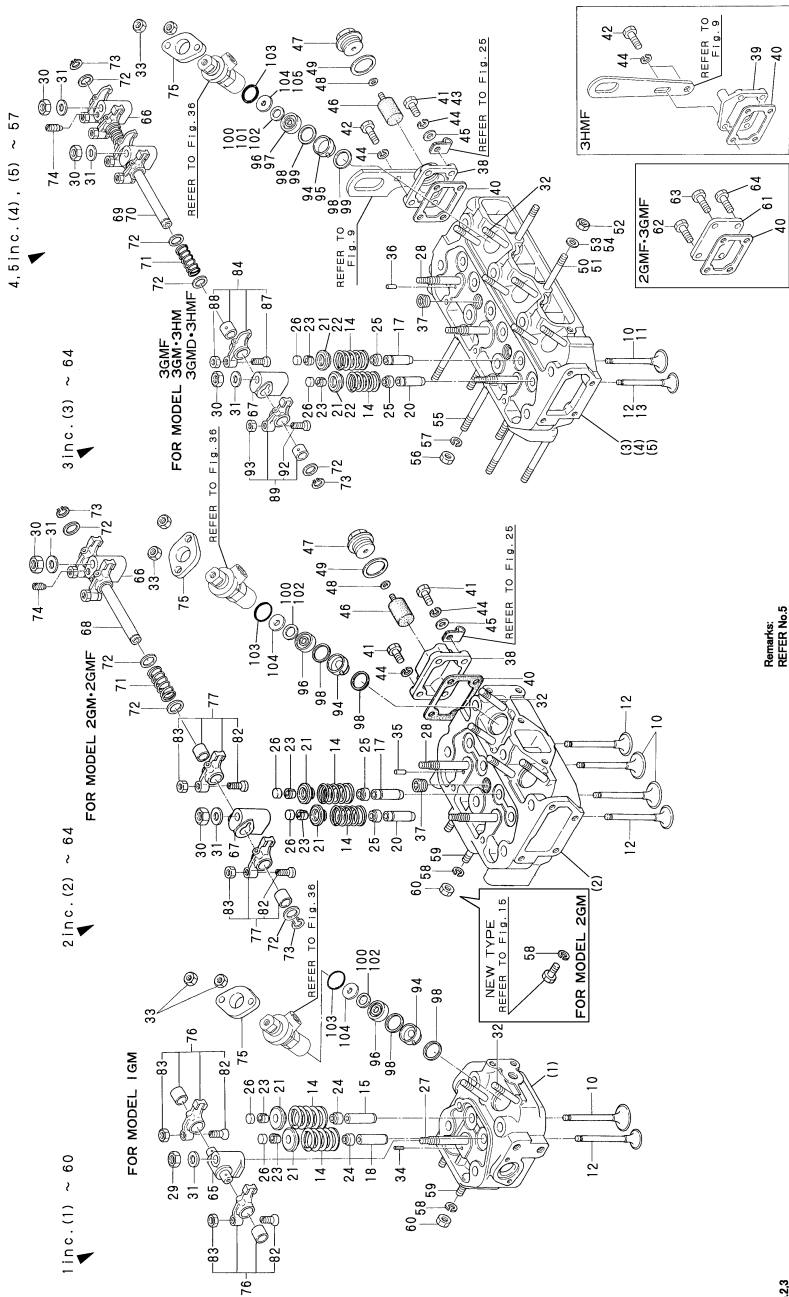
Remarks: REFER No.5 For cylinder head assembly of 3HMF, that of 3HM is to be supplied. Differences found in the constituent parts of assembly are as follow.	Parts necessary for 3HMF but not included
	39
Reference No.	38, 46, 47, 48, 49
	61
Remarks: REFER No.23 For cylinder head assembly of 2GMF & 3GMF, that of 2GM & 3GM is to be supplied. Differences found in the constituent parts of assembly are as follow.	Parts necessary for 2GM & 3GM but not included
	61
Reference No.	38, 46, 47, 48, 49

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-11700	HEAD ASSY, CYLINDER	1							
2	1	728270-11700	HEAD ASSY, CYLINDER		1						
3	1	728370-11700	HEAD ASSY, CYLINDER			1	1				
4	1	721575-11701	HEAD ASSY, CYLINDER					1			
5	1	721575-11701	HEAD ASSY, CYLINDER						1		
10	2	105225-11100	VALVE, SUCTION	1	2	3	3				
11	2	104211-11100	VALVE, SUCTION					3	3		
12	2	105225-11110	VALVE, EXHAUST	1	2	3	3				
13	2	104211-11110	VALVE, EXHAUST					3	3		
14	2	121575-11121	SPRING, VALVE	2	4	6	6	6	6		
15	2	105430-11160	GUIDE, VALVE	1							
17	2	124060-11800	GUIDE, VALVE		2	3	3	3	3		
18	2	105430-11160	GUIDE, VALVE	1							
18-1	2	128170-11160	GUIDE, VALVE	1							R
(A=EXXX)											
20	2	124060-11810	GUIDE, VALVE		2	3	3	3	3		
21	2	104200-11180	RETAINER, SPRING	2	4	6	6				
22	2	104211-11180	RETAINER, SPRING					6	6		
23	2	27310-070000	COTTER 7	2	4	6	6	6	6		
23-1	2	27310-070001	COTTER ASSY	2	4	6	6	6	6	N	
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)											
24	2	128170-11340	SEAL, VALVE STEM	2							
25	2	124950-11340	SEAL, VALVE STEM		4	6	6	6	6		
26	2	104211-11370	CAP, VALVE	2	4	6	6	6	6		
27	2	128170-11350	STUD, SUPPORT	1							
28	2	105225-11350	STUD, SUPPORT		2	3	3	3	3		
29	2	26736-100002	NUT M10	1							
30	2	26776-100002	LOCK NUT M10 PLATED		2	3	3	3	3		
31	2	22137-100000	WASHER 10,POLISHED	1	2	3	3	3	3		
32	2	26216-080622	STUD M 8X 62 PLATED	2	4	6		6			
32-1	2	26216-080652	STUD M 8X 65 PLATED		4	6	6		6	S	
(B=EXXX) (C=EXXX)											
32-2	2	26216-080702	STUD M 8X 70 PLATED					6		S	
(E=EXXX)											
33	2	26716-080002	NUT M 8	2	4	6	6	6	6		
34	2	22351-040008	SPRING PIN 4X 8	1							
34-1	2	22351-040010	SPRING PIN 4X10	1							R
(A=EXXX)											
35	2	121000-11050	PIN 4.5X10		1	1	1				
36	2	121000-11050	PIN 4.5X10					1	1	W	
(E=E#00019) (F=*1980.07)											
37	2	23873-030000	PLUG PT 3/8	1	2	2	2	2	2		
38	2	121575-11670	COVER	1	1	1	1	1			
39	2	128695-11670	COVER							1	
40	2	121450-11680	GASKET,COVER	1	1	1	1	1	1		
41	2	26116-080202	BOLT M 8X 20 PLATED	4	2	2			2		
42	2	26116-080252	BOLT M 8X 25 PLATED		2	2	2	2	2		
43	2	26116-080222	BOLT M 8X 22 PLATED					2			
44	2	22217-080000	SPRING WASHER 8	4	4			3	3		
45	2	22117-080000	WASHER 8	1	1	1	1	1			
45-1	2	22137-080000	WASHER 8, POLISHED					1		S	
(E=EXXX)											
46	2	27210-200300	ZINC, ANTI-CORROSIVE	1	1	1	1	1			
47	2	124220-09320	PLUG	1							

++ CONTINUE ++

Fig.11.CYLINDER HEAD



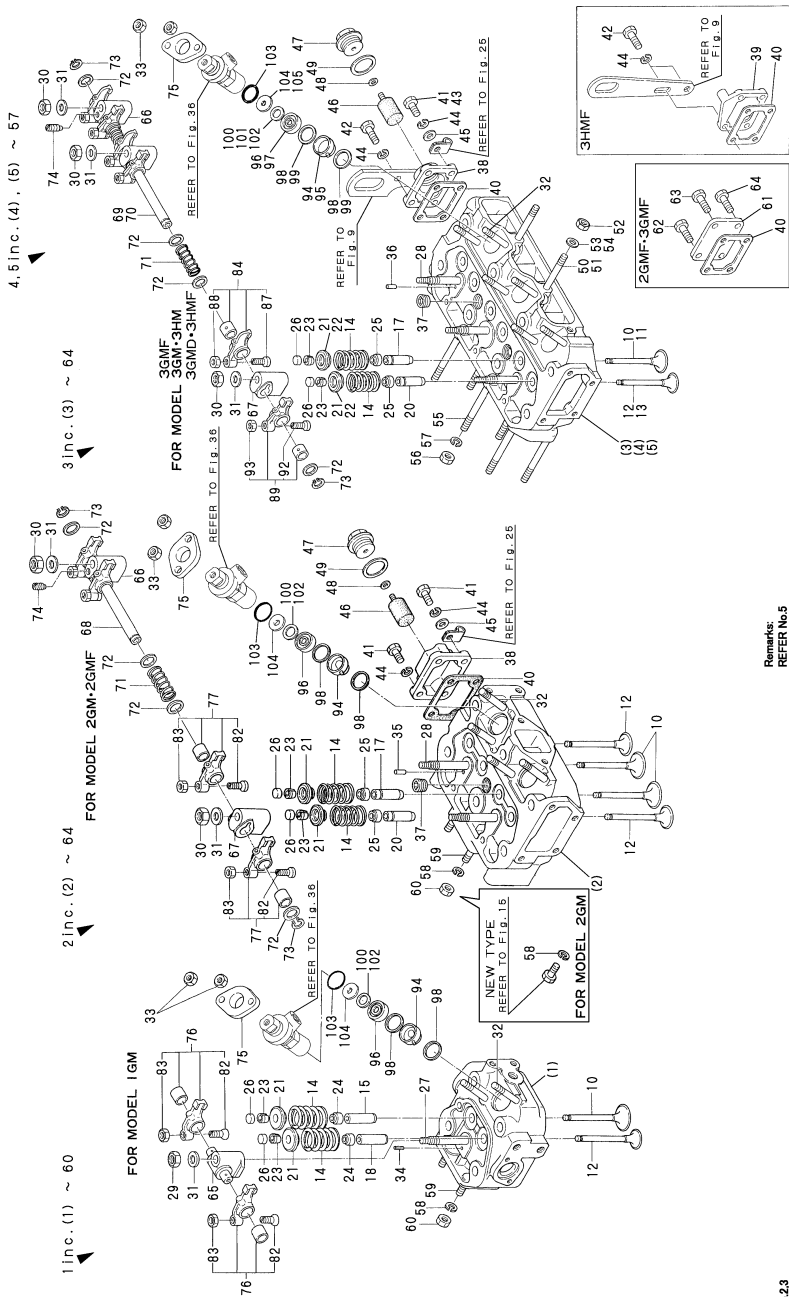
Remarks: REFER No.5 For cylinder head assembly of 3HMF, that of 3HM is to be supplied. Differences found in the constituent parts of assembly are as follow.		Parts necessary for 3HMF but not included
Reference No.	38, 46, 47, 48, 49	39
Remarks: REFER No.23 For cylinder head assembly of 2GMF & 3GMF, that of 2GM & 3GM is to be supplied. Differences found in the constituent parts of assembly are as follow.		Parts necessary for 2GM & 3GM but not included
Reference No.	38, 46, 47, 48, 49	61

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
47-1	2	122780-09320 (B=*1980.07)	PLUG		1	1	1	1			R
48	2	123210-09310	PACKING		1	1	1	1			
49	2	23414-250000	GASKET 25,ROUND		1	1	1	1			
50	2	26216-080552	STUD M 8X 55 PLATED			2	2				
51	2	121250-11550	BOLT, INT.MANIFOLD						2	2	
52	2	26716-080002	NUT M 8			2	2	2	2		
53	2	22137-080000	WASHER 8, POLISHED					2	2		
54	2	22117-080000	WASHER 8			2	2				
55	2	26213-080802	STUD M 8X 80			6	6	6			
56	2	26713-080002	NUT M 8			6	6	6			
57	2	22217-080000	SPRING WASHER 8			6	6	6			
58	2	22217-080000	SPRING WASHER 8	3	3						
59	2	26213-080182	STUD M 8X 18	3	3						
60	2	26713-080002	NUT M 8	3	3						
61	2	121450-11670	COVER		1	1					
62	2	26116-080282	BOLT M 8X 28 PLATED		2	2					
63	2	26116-080122	BOLT M 8X 12 PLATED		1	1					
64	2	121250-01710	BOLT M 8X 14		1	1					
65	1	128170-11290	SUPPORT, ROCKER ARM	1							
66	1	121450-11260	SUPPORT, ROCKER ARM		1	1	1	1	1		
67	1	121450-11270	SUPPORT, ROCKER ARM		1	2	2	2	2		
68	1	124000-11240	SHAFT, ROCKER ARM		1						
69	1	121450-11240	SHAFT, ROCKER ARM			1	1				
70	1	121550-11240	SHAFT, ROCKER ARM					1	1		
71	1	121550-11280	SPRING		1	2	2	2	2		
72	1	121550-11290	WASHER		4	6	6	6	6		
73	1	22242-000140	CIRCLIP 14		2	2	2	2	2		
74	1	26921-080102	SET SCREW M 8X 10		1	1	1	1	1		
75	1	101147-11900	FLANGE	1	2	3	3	3	3		
76	1	728170-11650	ARM ASSY, ROCKER	2							
77	1	724085-11650	ARM ASSY, ROCKER		4						
82	2	101158-11230	SCREW, VALVE	2	4						
83	2	26756-080002	LOCK NUT M 8 PLATED	2	4						
84	1	721450-11650	ARM ASSY, ROCKER			3	3	3	3		
87	2	101158-11230	SCREW, VALVE			3	3	3	3		
88	2	26756-080002	LOCK NUT M 8 PLATED			3	3	3	3		
89	2	721450-11660	ARM ASSY, ROCKER			3	3	3	3		
92	2	101158-11230	SCREW, VALVE			3	3	3	3		
93	2	26756-080002	LOCK NUT M 8 PLATED			3	3	3	3		
94	1	121000-11420	CHAMBER, FRONT	1	2	3	3				
95	1	121575-11421	CHAMBER, FRONT					3	3		
96	1	124950-11410	CHAMBER, REAR	1	2	3					
96-1	1	128275-11410 (A=*1980.11)	CHAMBER, REAR (B=*1980.11)	1	2	3	3				F
97	1	121550-11411	CHAMBER, REAR (C=*1980.11)					3			
97-1	1	128695-11410	CHAMBER, REAR					3	3		F
98	1	124950-11450	GASKET, CHAMBER	2	4	6	6				
99	1	121550-11451	GASKET, CHAMBER					6	6		
100	1	101147-11490	INSULATOR	1	2	3					Z
101	1	103854-11490	INSULATOR					3			Z

++ CONTINUE ++

Fig.11.CYLINDER HEAD



Remarks:
REFER No.23
For cylinder head assembly of 2GMF & 3GMF, that of 2GM & 3GM is to be supplied.
Differences found in the constituent parts of assembly are as follow:

Reference No.	38, 46, 47, 48, 49
Parts necessary for 2GMF & 3GMF	
Parts necessary for 2GM & 3GM but not included	61

Remarks:
REFER No.5
For cylinder head assembly of 3HMF, that of 3HM is to be supplied.
Differences found in the constituent parts of assembly are as follow:

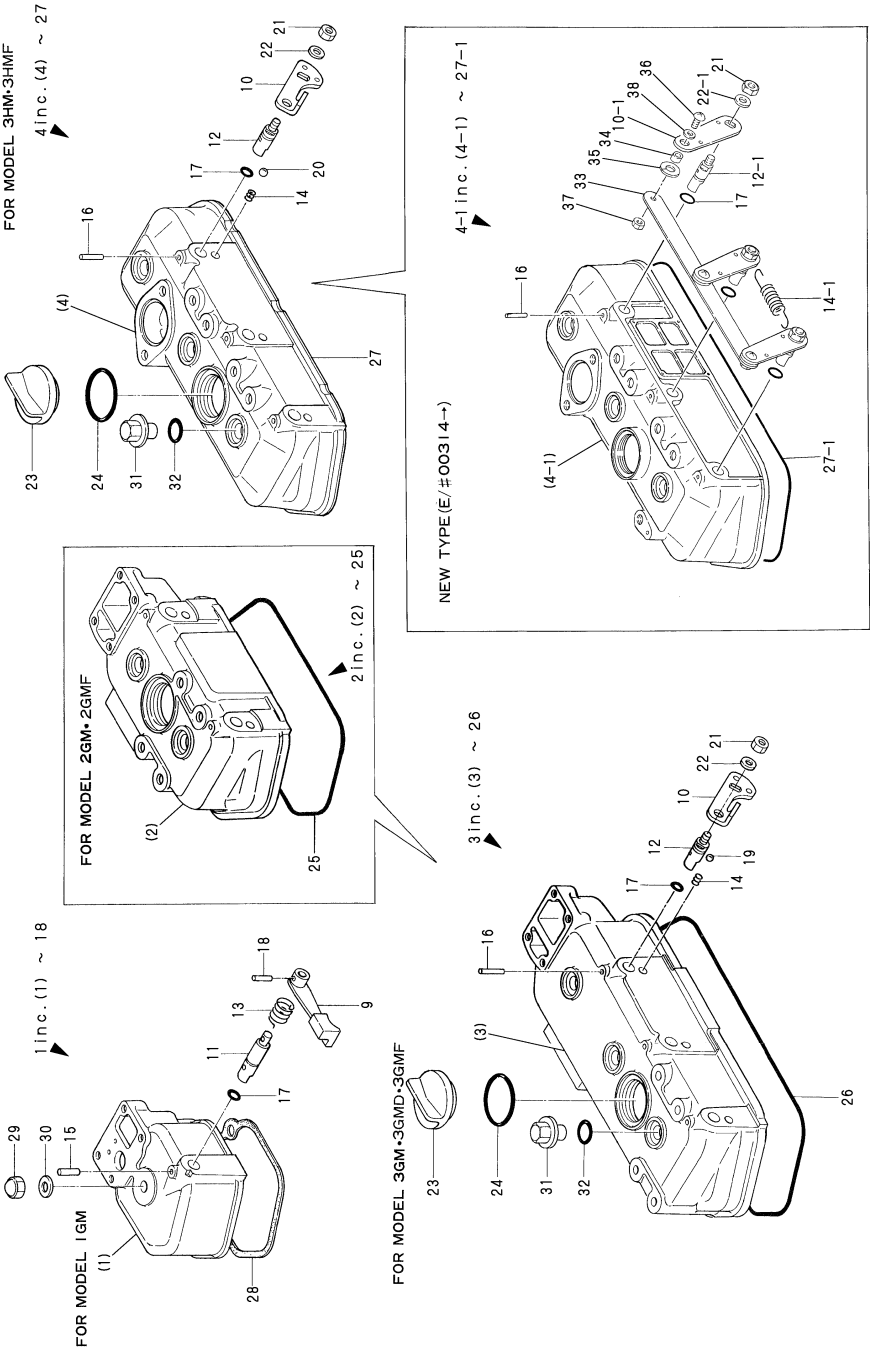
Reference No.	38, 46, 47, 48, 49
Parts unnecessary for 3HMF	
Parts necessary for 3HMF but not included	39

Y00R0902 11.CYLINDER HEAD

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
102	1	128275-11490	INSULATOR	1	2	3	3	3	3	W	
	(A=*1980.11)	(B=*1980.11)	(C=*1980.11)	(D=*1980.11)	(E=*1980.11)				(F=*1980.11)		
103	1	24341-000260	O-RING 1A S-26.0	1	2	3	3				
104	1	128275-11500	COVER	1	2	3	3			W	
	(A=*1980.11)	(B=*1980.11)	(C=*1980.11)	(D=*1980.11)							
105	1	128695-11500	COVER					3	3	W	
					(E=*1980.11)				(F=*1980.11)		

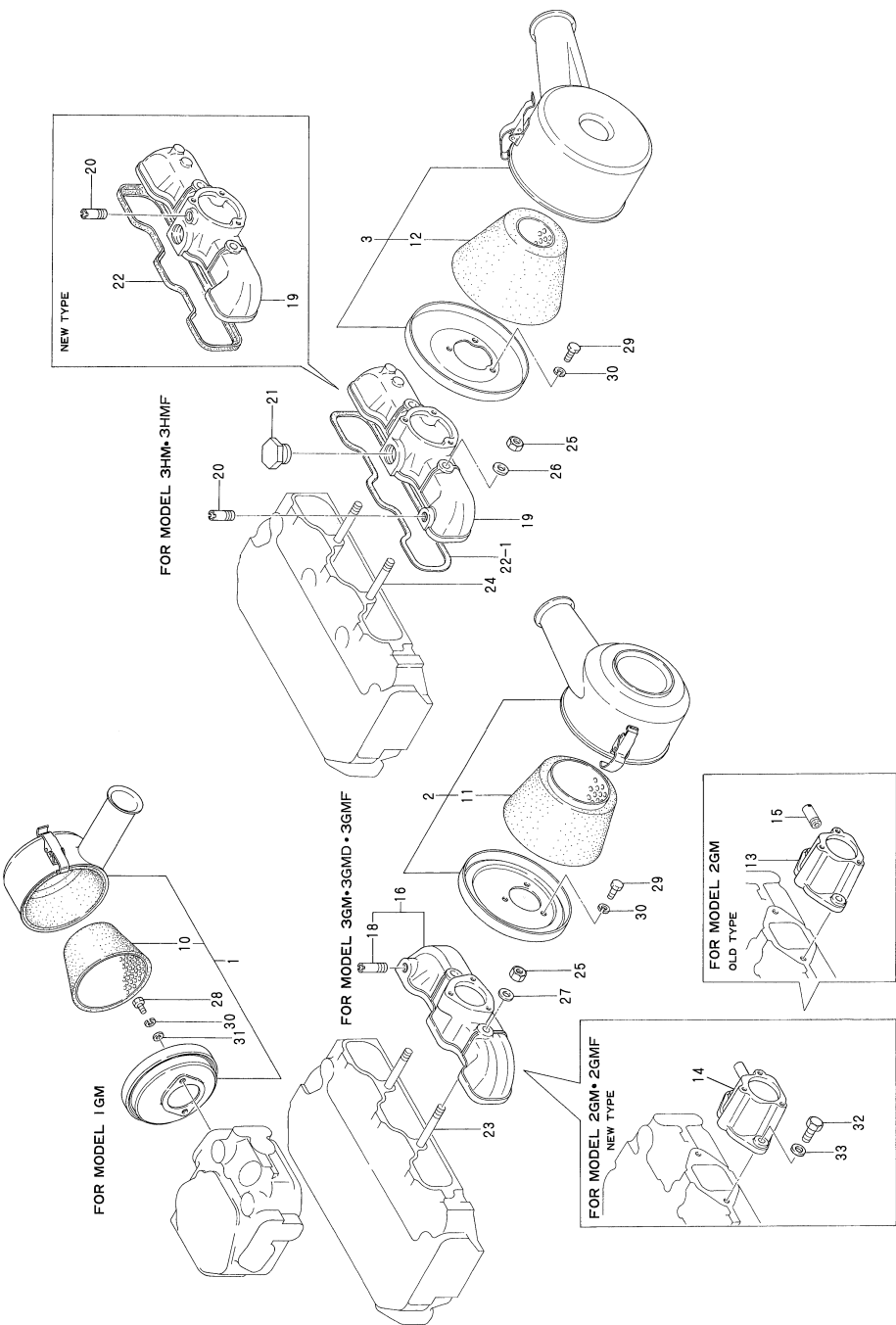
Fig.12.BONNET



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-11860	BONNET, CYL. HEAD	1							
2	1	728270-11520	BONNET ASSY, HEAD	1							
3	1	728370-11520	BONNET ASSY, HEAD			1	1				
4	1	728670-11520	BONNET ASSY, HEAD					1			
4-1	1	728670-11521	BONNET ASSY, HEAD					1	1	N	
(E=*1980.12)											
9	2	104104-03750	LEVER, DECOMPRESSION	1							
10	2	128270-03750	LEVER, DECOMPRESSION		2	3	3	3	3		
10-1	2	121462-03740	LEVER, DECOMPRESSION					3	3	S	
(E=EXXX) (F=EXXX)											
11	2	104200-03600	SHAFT, DECOMPRESSION	1							
12	2	128270-03610	SHAFT, DECOMPRESSION		2	3	3	3	3		
12-1	2	121450-03610	SHAFT, DECOMPRESSION					3	3	S	
(E=EXXX) (F=EXXX)											
13	2	104200-03641	SPRING, DECOMPRESSION	1							
14	2	128270-03640	SPRING		2	3	3		3		
14-1	2	160110-66011	SPRING, REGULATOR					1	1	S	
(E=EXXX) (F=EXXX)											
15	2	22312-030180	PARALLEL PIN 3X18	1							
16	2	22312-030220	PARALLEL PIN 3X22		2	3	3	3	3		
17	2	24311-000070	O-RING 1A P-7.0	1	2	3	3	3	3		
18	2	22322-030160	TAPER PIN 3X16	1							
19	2	24190-080001	BALL 1/4, STEEL		2	3	3				
20	2	24190-080001	BALL 1/4, STEEL					3	3	Z	
(E=EXXX) (F=EXXX)											
21	2	26716-060002	NUT 6		2	3	3	3	3		
22	2	22117-060000	WASHER 6		2	3	3	3	3		
22-1	2	22137-060000	WASHER 6, POLISHED					3	3	N	
(E=EXXX) (F=EXXX)											
23	2	124160-01751	COVER, FILLER	1	1	1	1	1	1		
24	2	24321-000350	O-RING 1A G-35.0	1	1	1	1	1	1		
25	2	128270-11310	GASKET, BONNET	1							
26	2	121450-11310	GASKET, BONNET			1	1				
27	2	128670-11310	GASKET, BONNET					1	1		
27-1	2	121550-11310	GASKET, BONNET					1	1	S	
(E=E/#00314) (F=E/#00314)											
28	1	128170-11310	GASKET, BONNET	1							
29	1	26656-080002	DOMED CAP NUT (M8)	1							
30	1	43400-500410	SEAL WASHER 8S	1							
31	1	124160-11360	KNOB		2	3	3	3	3		
32	1	24311-000120	O-RING 1A P 12.0		2	3	3		3		
33	1	121550-03760	CONNECTOR					1	1	W	
(E=EXXX) (F=EXXX)											
34	1	121575-03770	COLLAR					3	3	W	
(E=EXXX) (F=EXXX)											
35	1	22287-080000	LOCKING WASHER					3	3	W	
(E=EXXX) (F=EXXX)											
36	1	26557-050122	SCREW M 5X 12					3	3	W	
(E=EXXX) (F=EXXX)											
37	1	26756-050002	LOCK NUT M 5 PLATED					3	3	W	
(E=EXXX) (F=EXXX)											
38	1	22117-050000	WASHER 5					3	3	W	
(E=EXXX) (F=EXXX)											

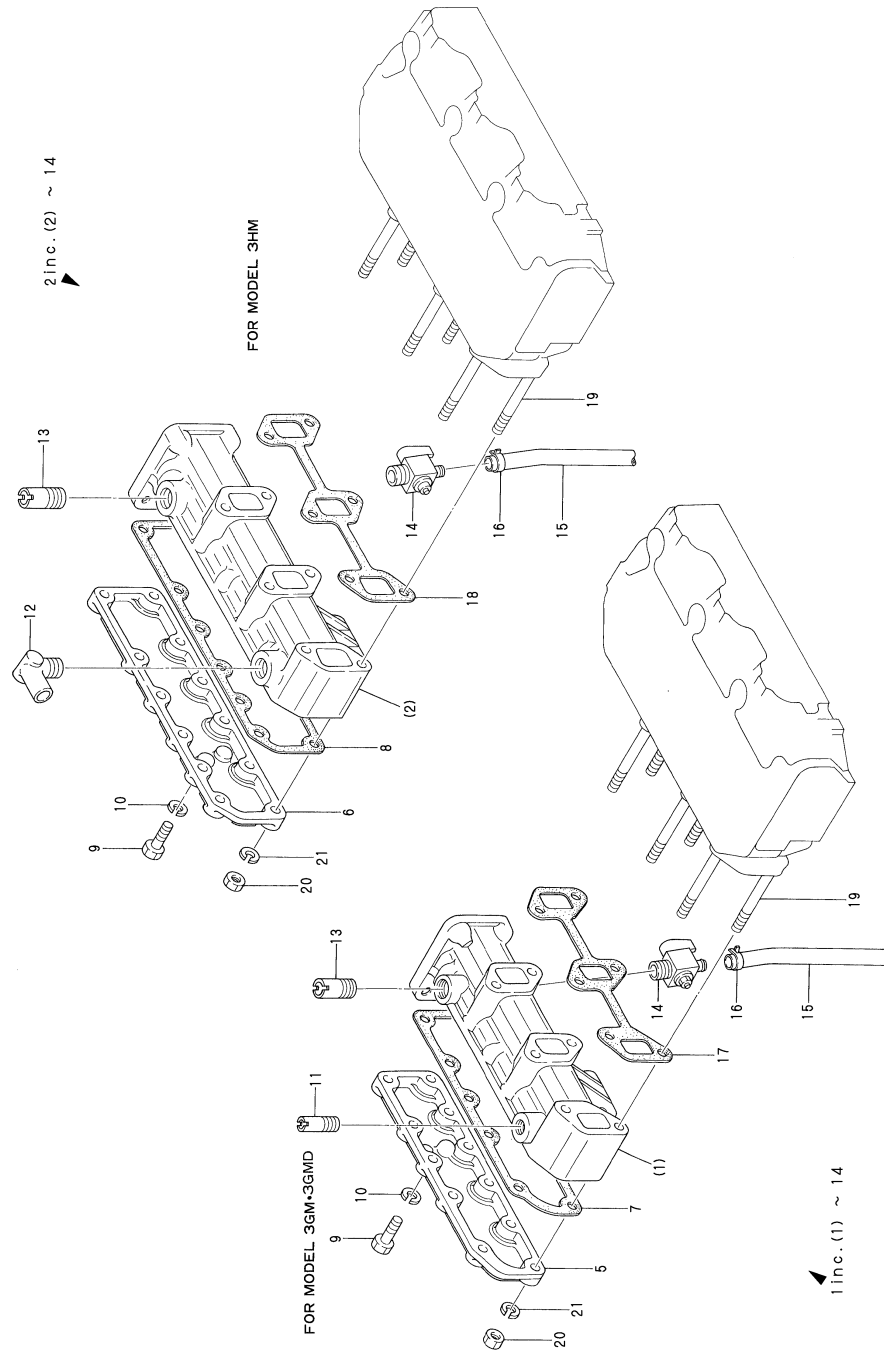
Fig.13.AIR INTAKE SILENCER



Y00R0902 13.AIR INTAKE SILENCER

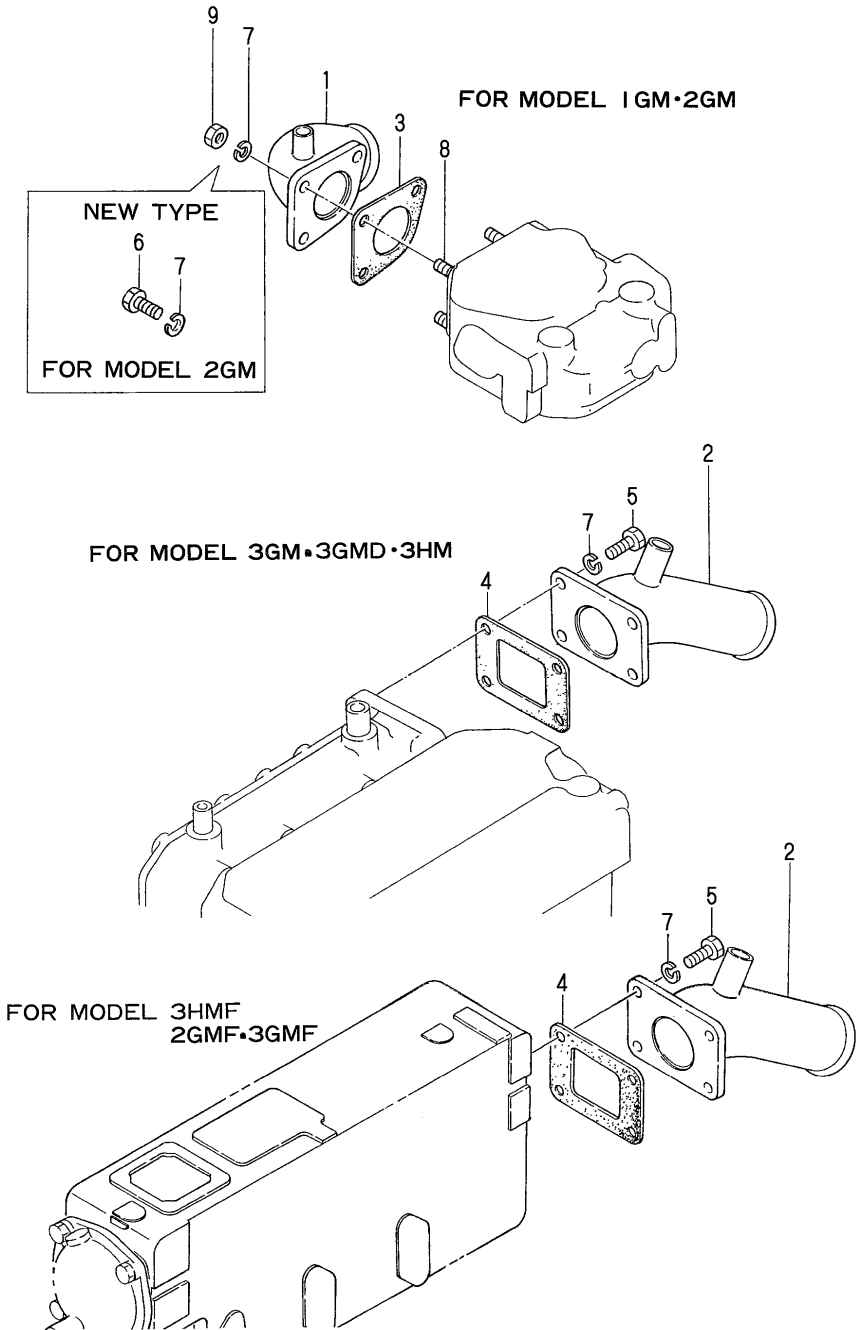
(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-12500	SILENCER, AIR INTAKE	1							
2	1	128270-12500	SILENCER, AIR INTAKE		1	1	1				
3	1	124770-12500	SILENCER, AIR INTAKE					1	1		
10	2	128170-12540	ELEMENT, SILENCER	1							
11	2	128270-12540	ELEMENT, SILENCER		1	1	1				
12	2	124770-12540	ELEMENT, CLEANER					1	1		
13	1	128270-12730	CONNECTOR ASSY		1						Z
(B=*1980.08)											
14	2	128270-12700	PIPE, AIR INTAKE	1							
15	2	124770-11770	JOINT PT1/8		1						Z
(B=*1980.08)											
16	1	128370-12730	MANIFOLD, AIR INTAKE			1	1				
18	2	124770-11770	JOINT PT1/8			1	1				
19	1	121575-12700	MANIFOLD, AIR INTAKE					1	1		
20	1	124770-11770	JOINT PT1/8					1	1		
21	1	124450-11320	PLUG U7/8					1	1		
22	1	121550-12710	GASKET					1	1		
22-1	1	121551-12710	GASKET, MANIFOLD					1	1		N
(E=*1980.09) (F=*1980.09)											
23	1	26216-080552	STUD M 8X 55 PLATED			2	2				
24	1	121250-11550	BOLT, INT.MANIFOLD					2	2		
25	1	26716-080002	NUT M 8			2	2	2	2		
26	1	22137-080000	WASHER 8, POLISHED					2	2		
27	1	22117-080000	WASHER 8			2	2				
28	1	26116-060102	BOLT M 6X 10 PLATED	2							
29	1	26116-060142	BOLT M 6X 14		3	3	3	3	3		
30	1	22217-060000	SPRING WASHER 6	2	3	3	3	3	3		
31	1	22117-060000	WASHER 6	2	3	3	3				
32	1	26116-080202	BOLT M 8X 20 PLATED		2						
33	1	22117-080000	WASHER 8		2						



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728370-13500	MANIFOLD ASSY, EXH.			1	1				
2	2	728670-13500	MANIFOLD ASSY, EXH.					1			
5	2	128370-13160	COVER, MANIFOLD			1	1				
6	2	128670-13160	COVER, MANIFOLD					1			
7	2	128370-13180	GASKET			1	1				
8	2	128670-13180	GASKET					1			
9	2	26116-080252	BOLT M 8X 25 PLATED			5	5	6			
10	2	22217-080000	SPRING WASHER 8			5	5	6		Z	
			(C=E XXX) (D=E XXX) (E=E XXX)								
11	2	104211-49060	JOINT PT 1/4,PIPE			1	1				
12	2	124070-13300	ELBOW (PT3/8)					1			
13	2	124223-49300	JOINT, PIPE			1	1	1			
14	2	104200-11920	COCK			1	1	1			
15	1	23061-100500	PIPE 10X 500			1		1			
15-1	1	23061-100300	PIPE 10X 300			1	1			R	
			(C=E XXX)								
16	1	124223-49750	BAND			1	1	1			
17	1	121450-13250	GASKET, EXH.MANIFOLD			1	1				
18	1	121550-13520	GASKET, EXH.MANIFOLD					1			
19	1	26213-080802	STUD M 8X 80			6	6	6			
20	1	26713-080002	NUT M 8			6	6	6			
21	1	22217-080000	SPRING WASHER 8			6	6	6			

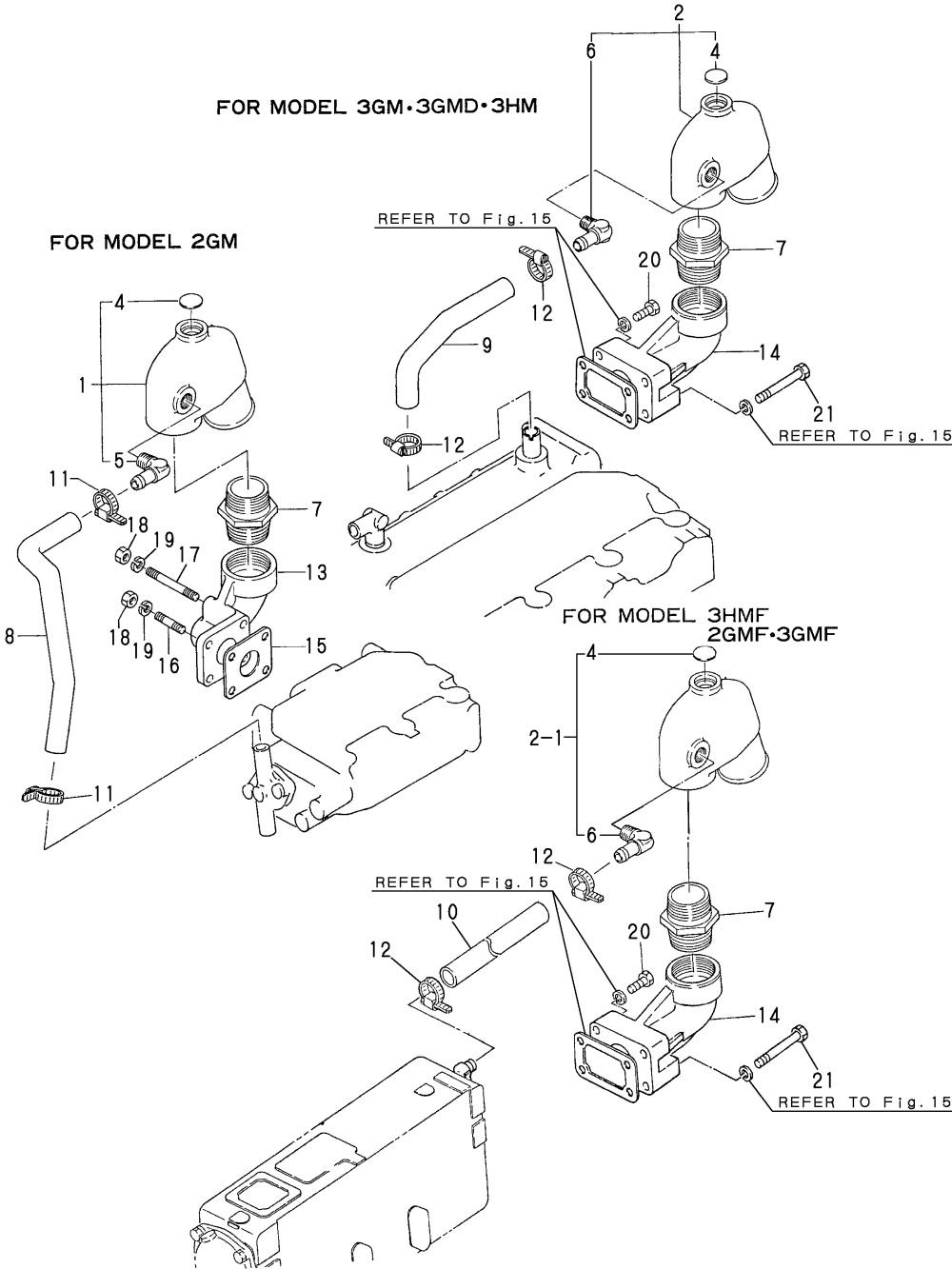
Fig.15.MIXING ELBOW



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-13530	ELBOW, WATER MIXING	1	1						
2	1	128370-13530	ELBOW, MIXING		1	1	1	1	1		
3	1	128170-13200	GASKET	1	1						
4	1	128370-13200	GASKET		1	1	1	1	1		
5	1	26113-080202	BOLT M8X 20 (STEN			4	4	4	4		
6	1	26113-080202	BOLT M8X 20 (STEN		3						W
(B=EXXX)											
7	1	22217-080000	SPRING WASHER 8	3	3	4	4	4	4		
8	1	26213-080182	STUD M 8X 18	3	3						
8-1	1	26213-080182	STUD M 8X 18		3						Z
(B=EXXX)											
9	1	26713-080002	NUT M 8	3	3						
9-1	1	26713-080002	NUT M 8		3						Z
(B=EXXX)											

Fig.16.MIXING ELBOW(U-TYPE/OPTIONAL)

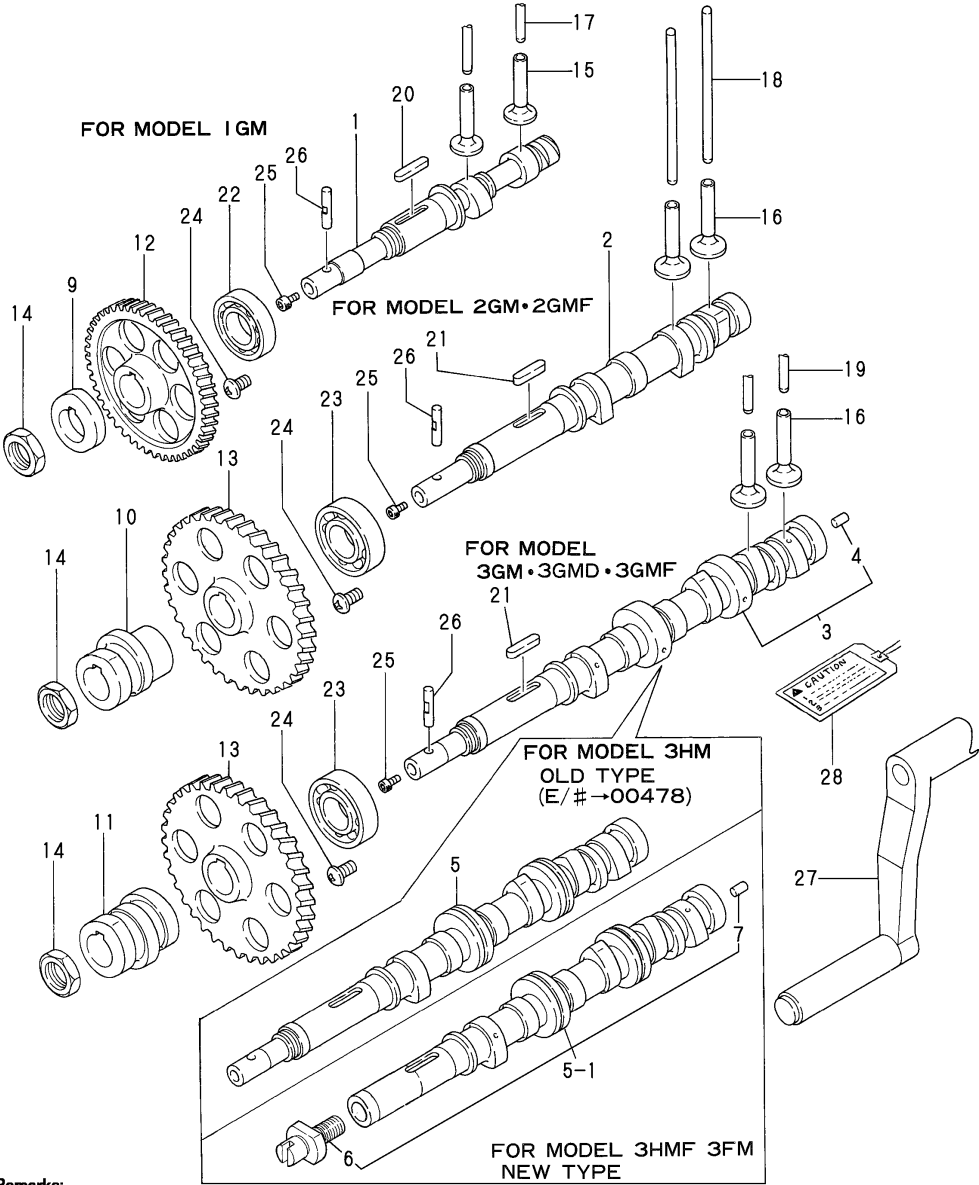


Y00R0902 16.MIXING ELBOW(U-TYPE/OPTIONAL)

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128270-13600	ELBOW, U-TYPE		1						
2	1	124070-13520	ELBOW, MIXING			1	1	1			
2-1	1	128370-13600	ELBOW, MIXING		1	1	1	1	1	1	R
			(C=EXXX) (D=EXXX) (E=EXXX)								
4	2	27233-250000	PLUG 25		1	1	1	1	1		
5	2	128270-13620	JOINT PT3/8, PIPE		1						
6	2	124070-13300	ELBOW (PT3/8)		1	1	1	1	1		
7	1	104214-13580	JOINT		1	1	1	1	1		
8	1	128270-49250	PIPE, COOLING WATER		1						
9	1	128370-49250	PIPE, COOLING WATER			1	1	1			
10	1	128690-49250	PIPE, COOLING WATER		1					1	
11	1	23000-022000	CLAMP 22		2						
12	1	23000-025000	CLAMP 25		2	2	2	2	2		
13	1	128270-13610	ELBOW, EXHAUST		1						
14	1	128370-13610	ELBOW, EXHAUST		1	1	1	1	1		
15	1	124000-13200	GASKET, SILENCER		1						
16	1	26213-080222	STUD M 8X 22		2						
17	1	26213-080702	STUD M 8X 70		2						
18	1	26713-080002	NUT M 8		4						
19	1	22217-080000	SPRING WASHER 8		4						
20	1	26113-080402	BOLT M 8X 40		2	2	2	2	2		
21	1	26113-080602	BOLT M 8X 60			2	2	2	2		

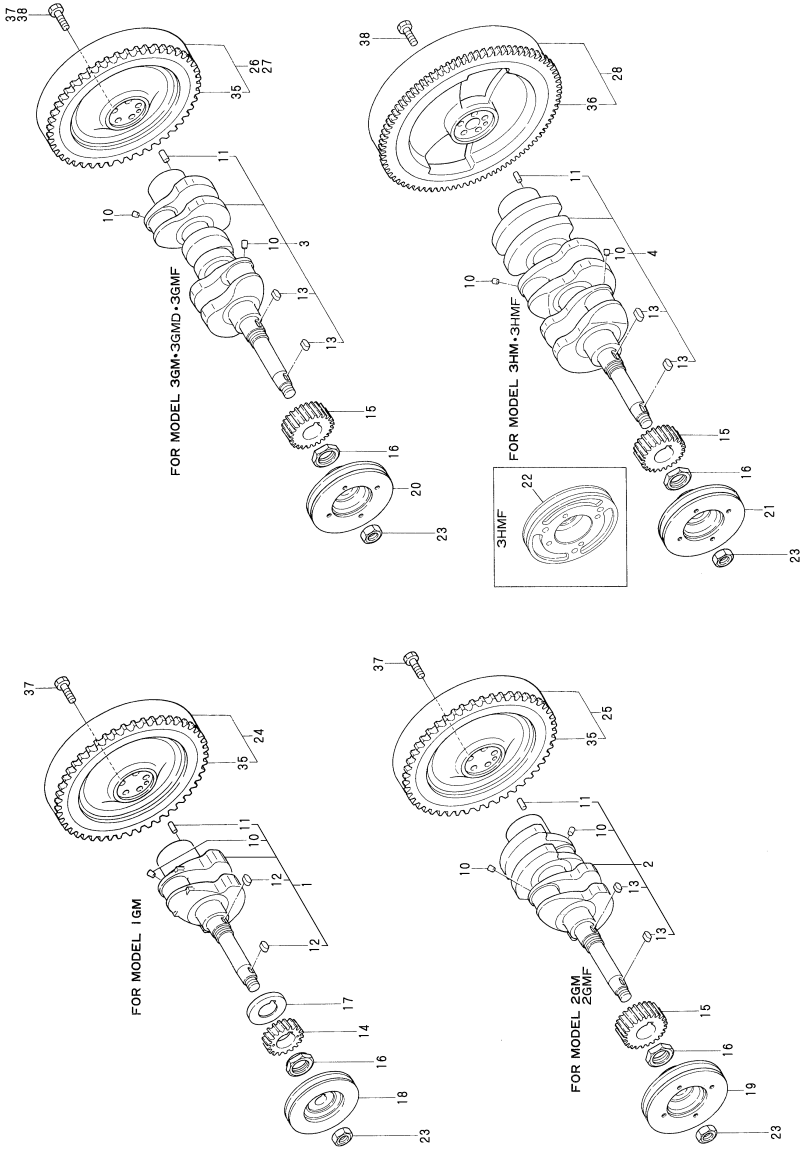
Fig.17.CAMSHAFT



Remarks:
No.5-1: Changed from July, 1980.
(1) Changed effective engine serial number: From E/#00479~(3HM)
Interchangeable provided COVER (Fig.3 No.28-3 171016-01550), BOLT (Fig.3 No.29-1 26116-060162), PACKING (Fig.3 No.40 128695-01840), WASHER 6 (Fig.3 No.41 22137-060000), BOLT (No.6 121000-14110) and PLUG (No.7 121000-14550) are replaced to the original type.
(2) The parts shown in (1) above are included in the camshaft assembly.

				(A)=1GM (B)=2GM(F) (C)=3GM(F)	(D)=3GMD (E)=3HM (F)=3HMF						
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-14010	CAMSHAFT	1							
2	1	128270-14010	CAMSHAFT		1						
3	1	128370-14010	CAMSHAFT			1	1				
4	2	121000-14550	PLUG			1	1				
5	1	128670-14010	CAMSHAFT					1			
5-1	1	728670-14581	CAMSHAFT ASSY					1	1	F	
6	2	121000-14110	BOLT	(E=E/#00479)				1	1	W	
7	2	121000-14550	PLUG	(E=E/#00479)				1	1	W	
9	1	124060-14090	CAM, FUEL	1							
10	1	124000-14090	CAM, FUEL		1						
11	1	121575-14090	CAM, FUEL			1	1	1	1		
12	1	128170-14100	GEAR, CAMSHAFT	1							
13	1	129350-14100	GEAR, CAMSHAFT		1	1	1	1	1		
14	1	128170-14150	NUT, CAM	1	1	1	1	1	1		
14-1	1	128170-14150	NUT, CAM					1	1	Z	
15	1	105430-14200	TAPPET	(E=E/#00479)				(F=E/XXX)			
16	1	104200-14200	TAPPET	2							
17	1	105225-14400	ROD, PUSH		4	6	6	6	6		
18	1	121450-14400	ROD, PUSH			4	6	6			
19	1	121550-14400	ROD, PUSH					6	6		
20	1	22512-050340	KEY 5X 34	1							
21	1	22512-070300	KEY 7X 30		1	1	1	1	1		
22	1	24101-060054	BALL BEARING	1							
23	1	24101-062054	BEARING #6205		1	1	1	1	1		
24	1	26587-080122	SCREW M 8X 12	1	1	1	1	1	1		
24-1	1	26587-080102	SCREW M 8X 10					1	1	S	
25	1	26450-050102	BOLT M 5X 10	(E=E/XXX)				(F=E/XXX)			
25-1	1	26450-050102	BOLT M 5X 10	1	1	1	1	1	1		
26	1	124070-14760	PIN					1	1		
26-1	1	124070-14760	PIN	1	1	1	1			1	
27	1	128170-76790	HANDLE, STARTING	(E=E/XXX)				(F=E/XXX)			
27-1	1	128170-76790	HANDLE, STARTING	1	1	1	1	1	1		
28	1	128170-07850	LABEL, CAUTION	(E=E/#00018)				(F=E/XXX)			
	(A=E/XXX)	(B=E/#00019)	(C=E/#00012)	(D=E/XXX)	1	1	1	1			W

Fig.18.CRANKSHAFT & FLYWHEEL

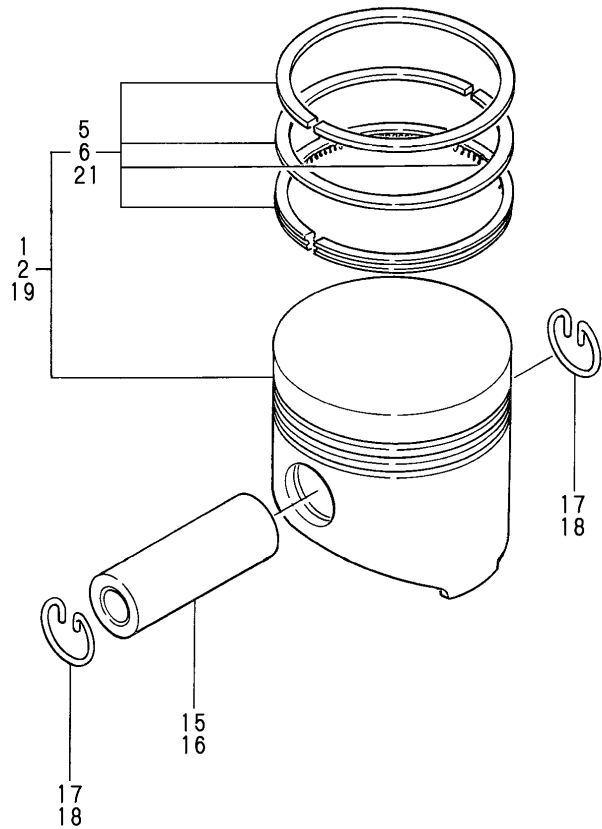


Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.2-1,
19-1,25-1.
2GMF *1982.01
(2)3GMF

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-21700	CRANKSHAFT ASSY	1							
2	1	724000-21700	CRANKSHAFT ASSY		1						
2-1	1	724000-21701	CRANKSHAFT ASSY		1					F	1
(B=E#04758)											
3	1	721000-21700	CRANKSHAFT ASSY			1	1				
3A	1	721000-21700	CRANKSHAFT ASSY			1					2
3A-1	1	721000-21701	CRANKSHAFT ASSY			1				N	2
(C=EXXX)											
4	1	721500-21700	CRANKSHAFT ASSY					1	1		
10	2	27221-060100	PLUG 6X10	1	2	3	3	3	3		
10-1	2	27221-060140	PLUG 6X14	1	2	3	3	3	3	R	
(A=EXXX) (B=*EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)											
10-2	2	24190-080001	BALL 1/4, STEEL	1	2	3	3	3	3	R	
(A=*1982.05) (B=*1982.05) (C=*1982.05) (D=*1982.05) (E=*1982.05) (F=*1982.05)											
11	2	22312-080160	PARALLEL PIN 8X 16	1	1	1	1	1	1		
12	2	22512-070120	KEY 7X 12	2							
13	2	22512-070180	KEY 7X 18		2	2	2	2	2		
14	1	128170-21200	GEAR, CRANKSHAFT	1							
15	1	129350-21200	GEAR, CRANKSHAFT		1	1	1	1	1		
16	1	121450-21540	NUT,CRANK SHAFT GEAR	1	1	1	1	1	1		
17	1	128170-21250	WASHER, THRUST	1							
18	1	128170-21650	V-PULLEY	1							
19	1	128270-21650	V-PULLEY		1						
19-1	1	128270-21651	V-PULLEY		1					S	1
(B=E#04758)											
20	1	128370-21650	V-PULLEY			1	1				
21	1	128670-21650	V-PULLEY					1			
22	1	128695-21650	V-PULLEY							1	
23	1	26776-180002	NUT M18,LOCK	1	1	1	1	1	1		
24	1	128170-21590	FLYWHEEL W/RING GEAR	1							
25	1	128270-21590	FLYWHEEL W/RING GEAR		1						
25-1	1	128270-21591	FLYWHEEL W/RING GEAR		1					S	1
(B=E#04758)											
26	1	128370-21590	FLYWHEEL W/RING GEAR			1					
26A	1	128371-21590	FLYWHEEL W/RING GEAR			1					2
27	1	128371-21590	FLYWHEEL W/RING GEAR				1				
28	1	128670-21590	FLYWHEEL W/RING GEAR					1	1		
35	2	124950-21600	GEAR, RING	1	1	1	1				
36	2	104211-21600	GEAR, RING					1	1		
37	1	121000-21500	BOLT, REAMER	5	5	5					
38	1	121574-21500	BOLT, REAMER				5	5	5		

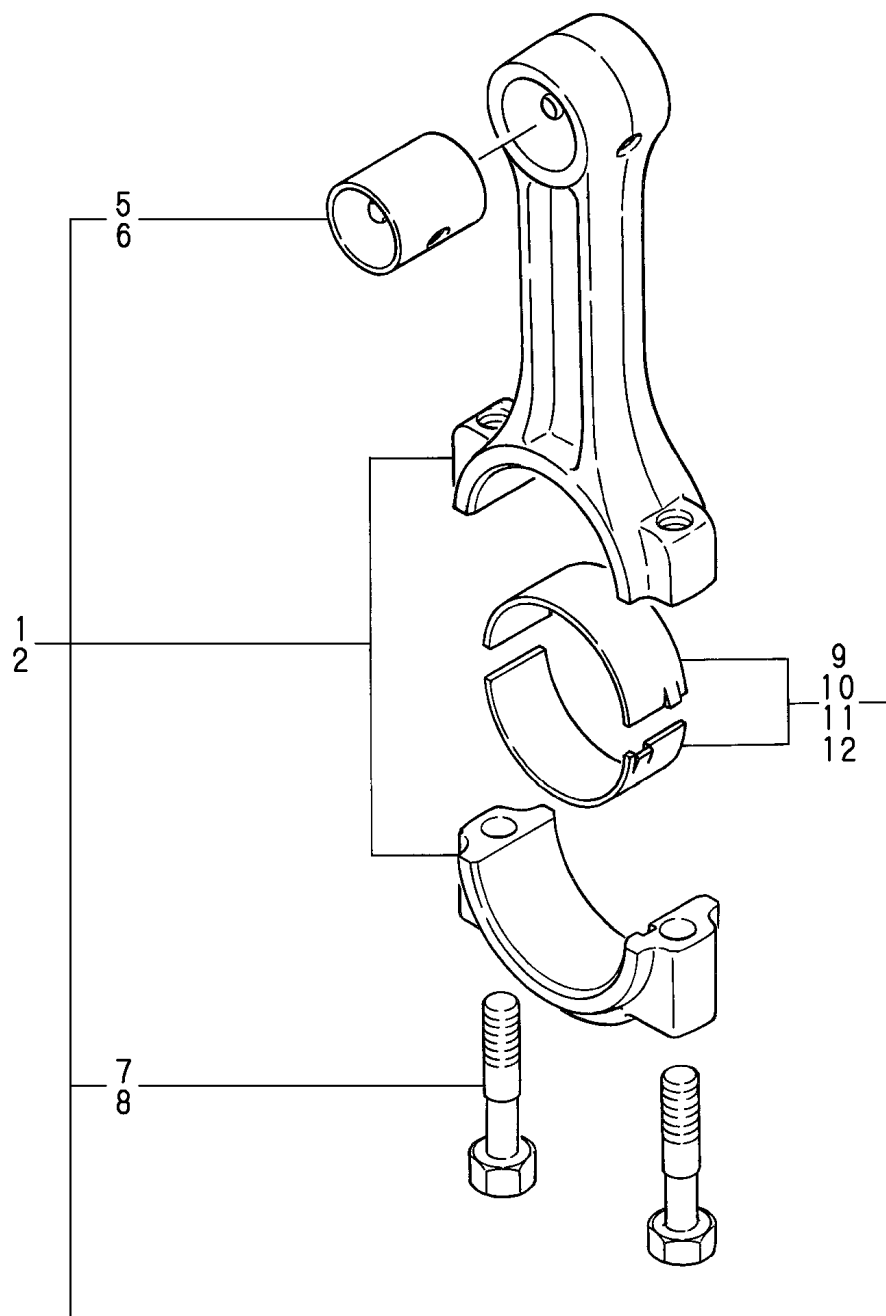
Fig.19.PISTON



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121000-22090	PISTON W/RINGS	1	2	3	3				
2	1	121575-22090	PISTON W/RINGS					3	3		
5	2	721000-22500	RING SET	1	2	3	3				
6	2	721575-22500	RING SET					3	3		
15	1	105225-22300	PIN, PISTON	1	2	3	3				
16	1	104200-22300	PIN, PISTON					3	3		
17	1	105225-22400	CIRCLIP	2	4	6	6				
18	1	172100-22400	CIRCLIP					6	6		
19	1	128170-22470	PISON W/RINGS .25OS	1							
21	2	728170-22540	RING SET 025	1							

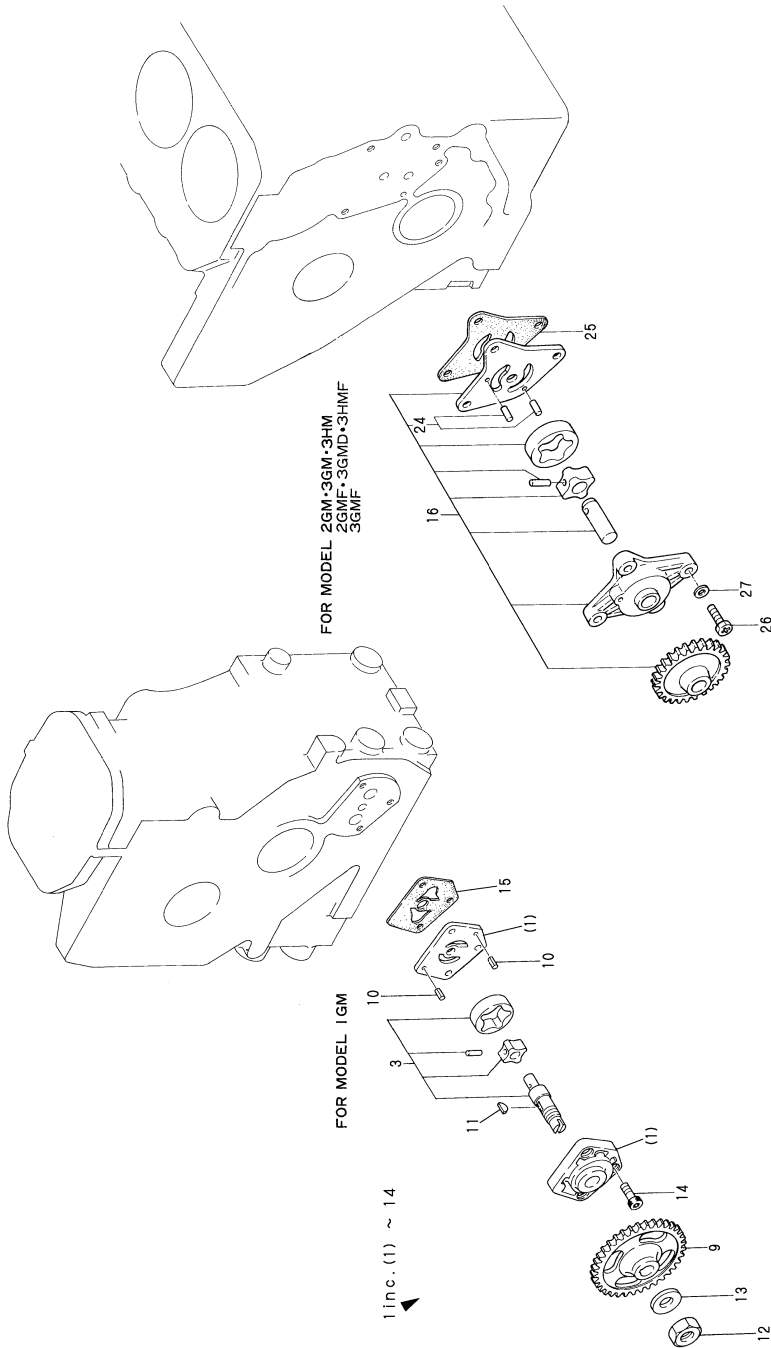
ATTENTION
As the abovementioned oversize parts are used for Model 1GM exclusively, they are not used for other Models.



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	705311-23100	ROD ASSY, CONNECTING	1	2	3	3			
2	1	721550-23100	ROD ASSY, CONNECTING					3	3	
5	2	105225-23100	BUSH, PISTON PIN	1	2	3	3			
6	2	124060-23100	BUSH, PISTON PIN					3	3	
7	2	105225-23200	BOLT, ROD	2	4	6	6			
8	2	121550-23200	BOLT, CONNECTING ROD					6	6	
9	2	705311-23600	METAL,CRANKPIN	1	2	3	3			
10	2	721550-23600	BEARING, CRANKPIN					3	3	
11	1	105311-23380	METAL,PIN US=0.25	1	2	3	3			
12	1	121550-23380	BEARING, PIN US=0.25					3	3	

Fig.21.LUB.OIL PUMP



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

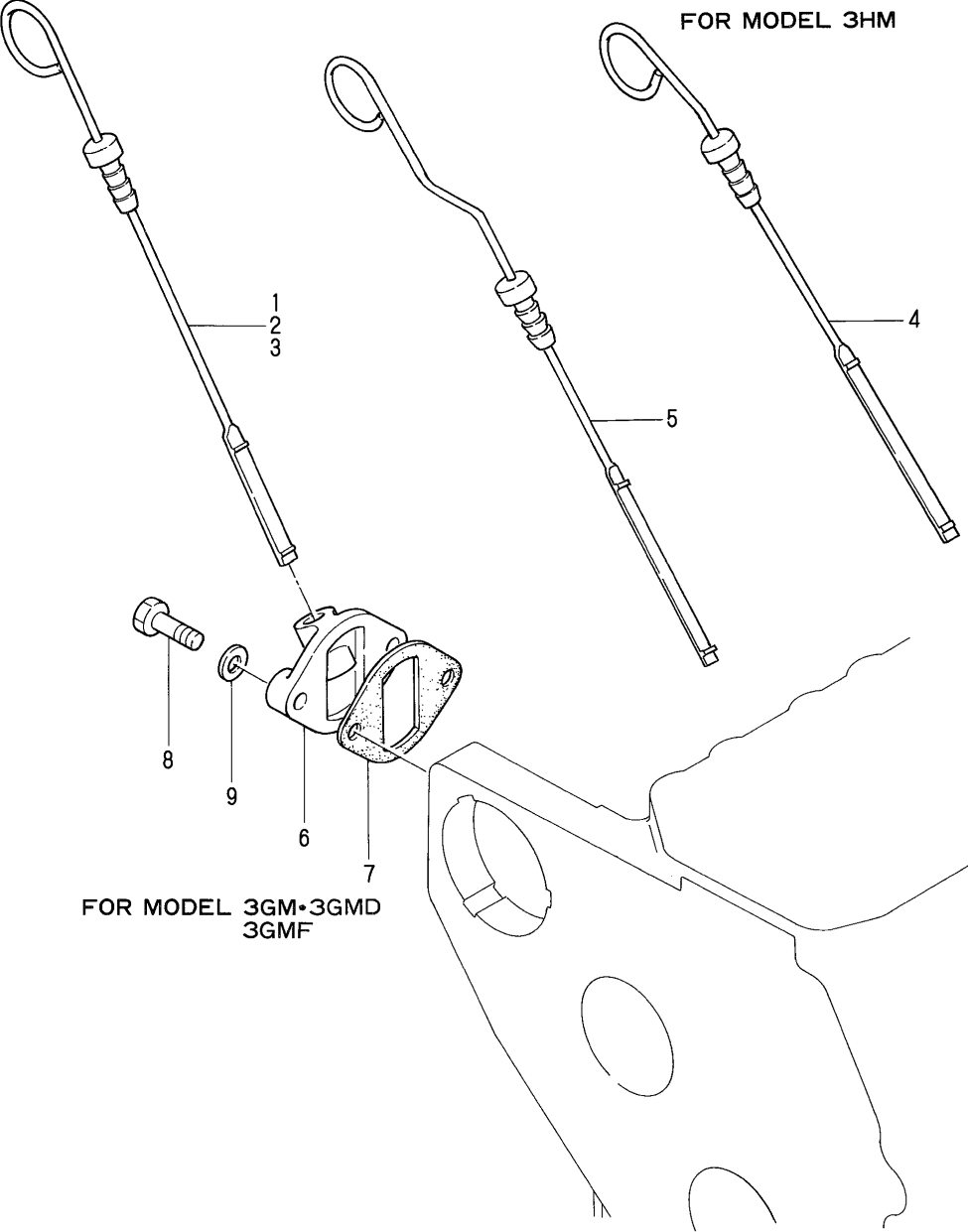
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-32100	PUMP ASSY, LUB. OIL	1							
3	2	728170-32500	ROTOR ASSY, LUB. OIL	1							
9	2	128170-32200	GEAR, LUB OIL PUMP	1							
10	2	22351-040008	SPRING PIN 4X 8	2							
11	2	22522-030100	WOODRUFF KEY 3X10	1							
12	2	26776-120002	LOCK NUT M12 PLATED	1							
13	2	22117-120000	WASHER 12	1							
14	2	26450-060182	BOLT M 6X 18	3							
15	1	128170-32030	GASKET	1							
16	1	121450-32091	PUMP ASSY, LUB OIL	1	1						
16-1	1	121575-32090 (B=EXXX)	PUMP ASSY, LUB OIL (C=EXXX)	1	1	1	1	1	1	R	
24	2	121450-32050	PARALLEL PIN	2	2	2	2	2	2		
25	1	121450-32021	GASKET, L.O.PUMP	1	1	1	1	1	1		
26	1	26116-060222	BOLT M 6X 22 PLATED	3	3	3	3	3	3		
27	1	22137-060000	WASHER 6, POLISHED	3	3	3	3	3	3		

Fig.22.LUB.OIL DIPSTICK

FOR MODEL I~3GM•3GMD
2GMF•3GMF

FOR MODEL 3HMF

FOR MODEL 3HM

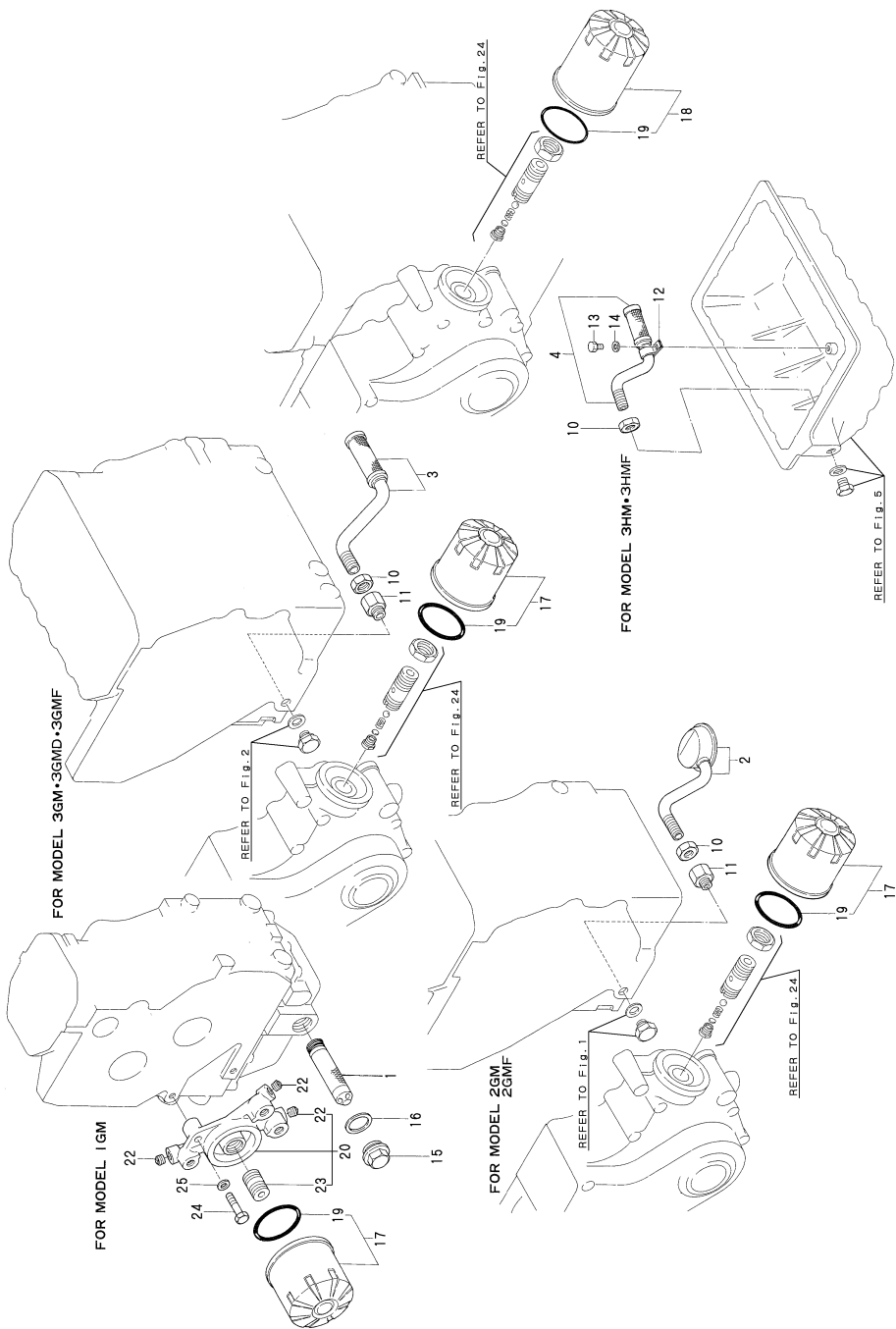


FOR MODEL 3GM•3GMD
3GMF

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-34800	DIPSTICK, LUB. OIL	1							
2	1	128270-34800	DIPSTICK, LUB. OIL		1						
3	1	128370-34800	DIPSTICK, LUB. OIL			1	1				
4	1	121575-34801	DIPSTICK, LUB. OIL					1			
5	1	128695-34800	DIPSTICK, LUB. OIL						1		
6	1	121575-34830	GUIDE, DIPSTICK	1	1						
7	1	124160-34844	GASKET	1	1						
8	1	26116-080252	BOLT M 8X 25 PLATED	1							
9	1	22117-080000	WASHER 8	2							

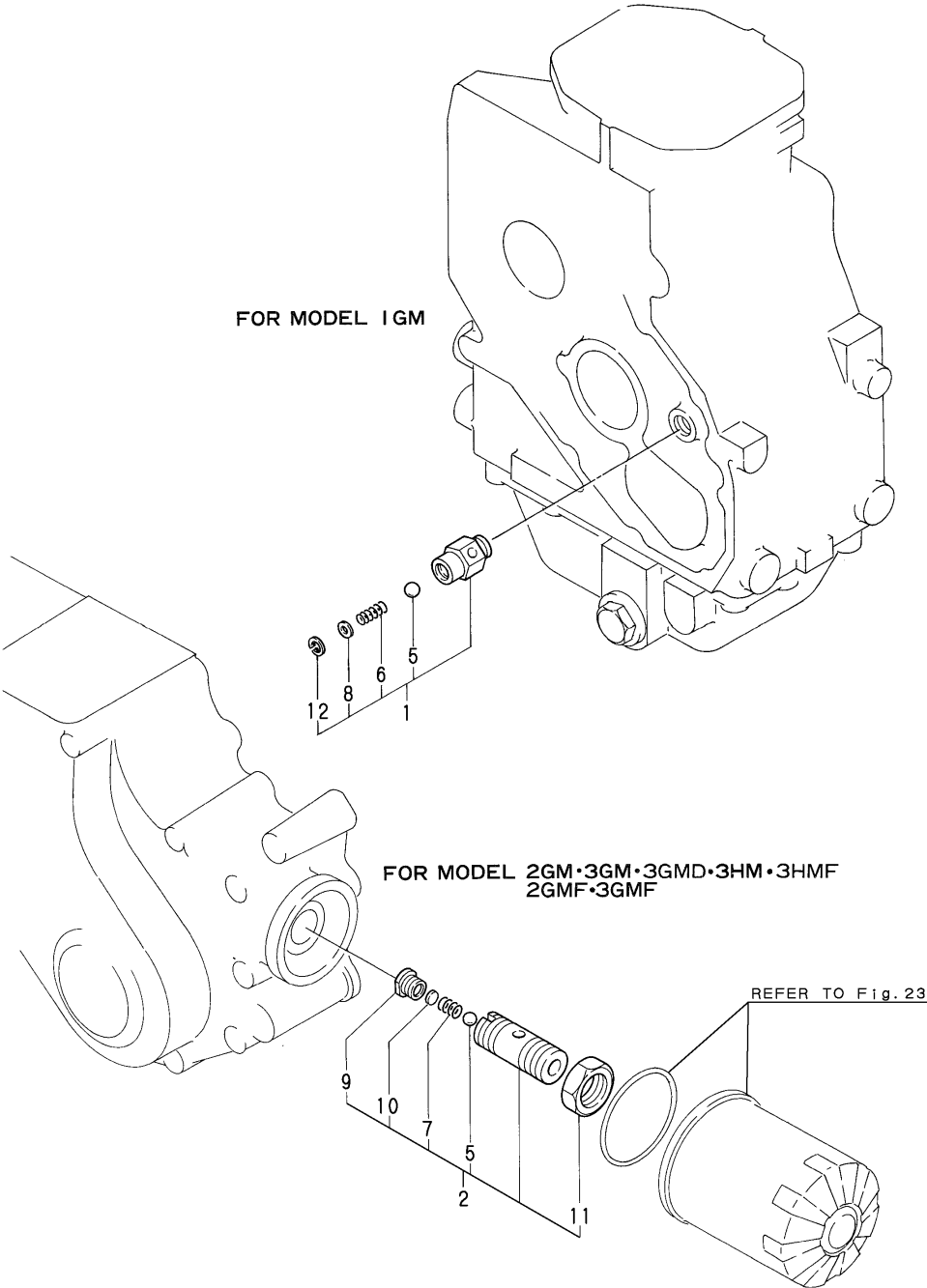
Fig.23.LUB.OIL STRAINER



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105430-35010	ELEMENT, LUB OIL	1							
2	1	128270-35090	PIPE, OIL INLET		1						
3	1	121450-35090	PIPE ASSY, OIL INLET			1	1				
4	1	121575-35090	PIPE, OIL INLET					1	1		
10	1	124450-35070	NUT PF1/4		1	1	1	1	1		
11	1	121150-35100	FITTINGS		1	1	1				
12	1	121370-35080	RETAINER, PIPE					1	1		
13	1	26116-060142	BOLT M 6X 14					1	1		
14	1	22217-060000	SPRING WASHER 6					1	1		
15	1	105430-01690	PLUG, DRAIN	1							
16	1	43400-500570	SEAL WASHER 24S	1							
17	1	124450-35100	FILTER, LUB. OIL	1	1	1	1				
18	1	124550-35110	ELEMENT, LUB. OIL					1	1		
19	2	124450-35110	O-RING, L.O. STRAINER	1	1	1	1	1	1		
20	1	728170-35800	BRACKET ASSY	1							
22	2	124060-01050	PLUG PT1/8	3							
23	2	105225-35290	BOLT	1							
24	1	26116-080352	BOLT M 8X 35	2							
25	1	22137-080000	WASHER 8, POLISHED	2							

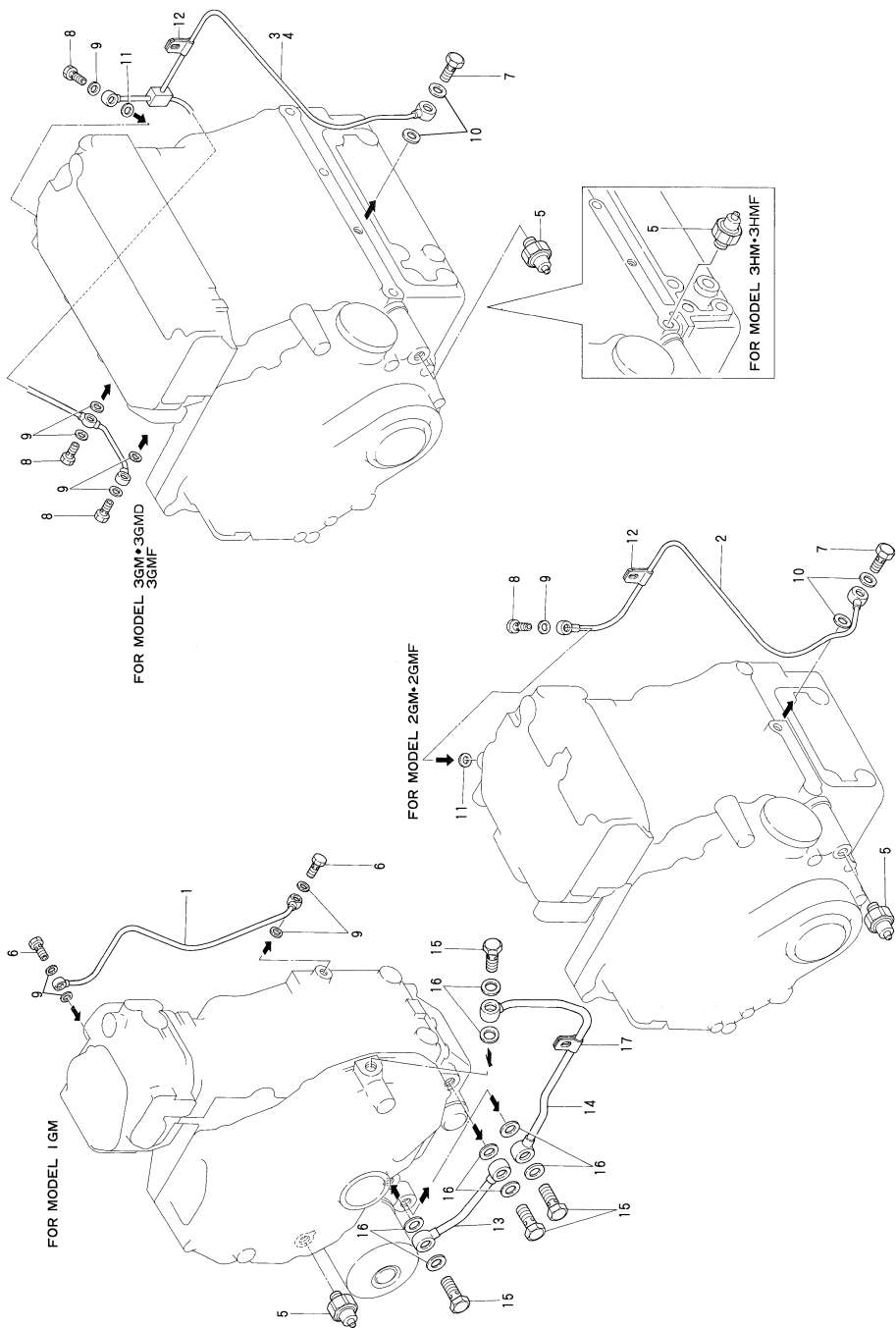
Fig.24.LUB.OIL PRESSURE CONTROL VALVE



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105225-35300	VALVE ASSY, CONTROL	1							
2	1	124085-35300	VALVE ASSY, CONTROL		1	1	1	1	1		
5	2	24190-100001	BALL 5/16, STEEL	1	1	1	1	1	1		
6	2	105582-34040	SPRING, CONT. VALVE	1							
7	2	121250-35320	SPRING		1	1	1	1	1		
8	2	124450-35330	RETAINER	1							
9	2	121250-35330	RETAINER		1	1	1	1	1		
10	2	121250-35340	SHIM		1	1	1	1	1		
11	2	124450-35350	NUT		1	1	1	1	1		
12	2	22252-000100	CIRCLIP 10	1							

Fig.25.LUB.OIL PIPE



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

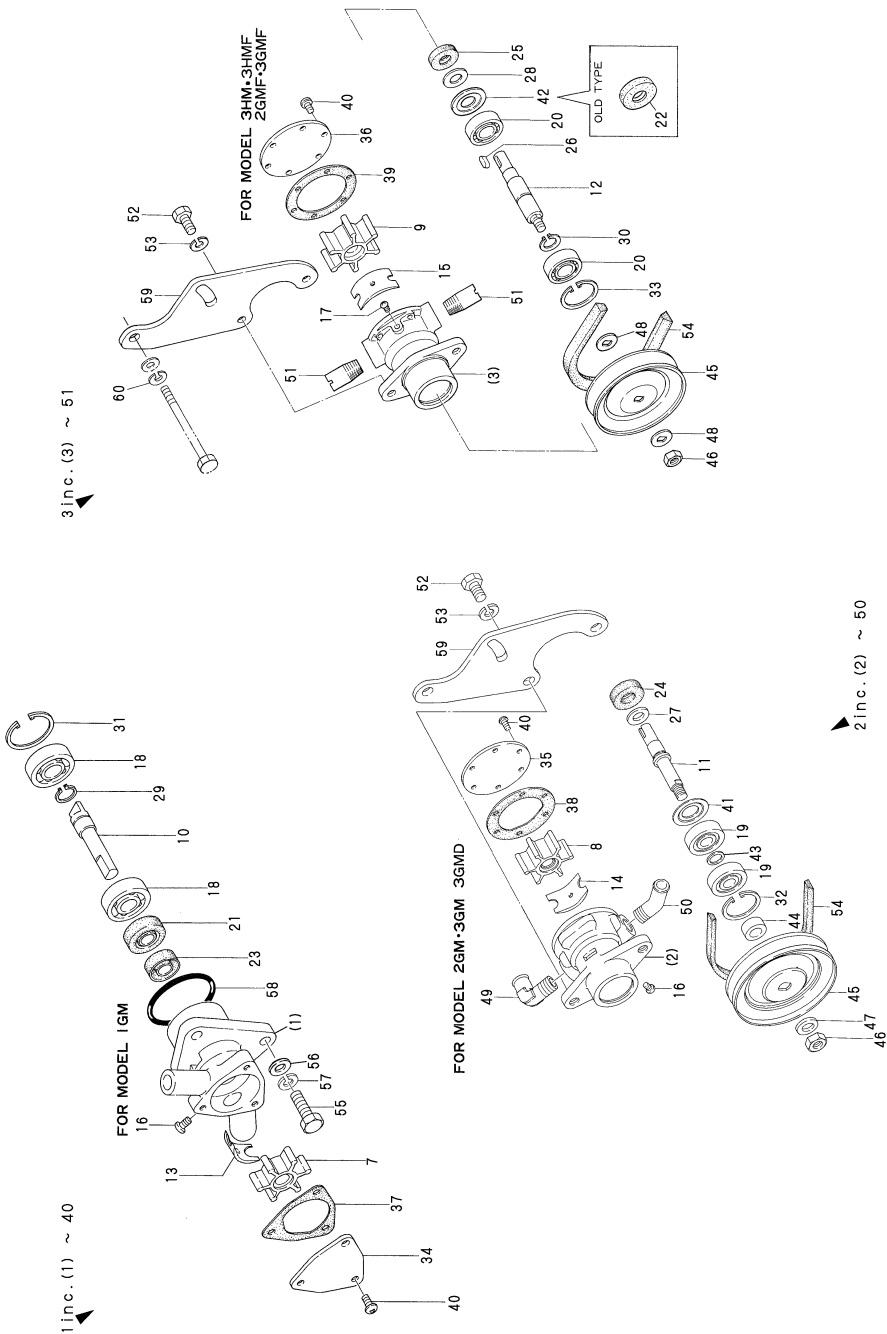
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-39200	PIPE, LUB OIL	1							
2	1	128270-39200	PIPE, LUB OIL		1						
3	1	128370-39200	PIPE, LUB OIL			1	1				
4	1	121575-39200	PIPE, LUB OIL						1	1	
5	1	124060-39451	SENDER, OIL PRESSURE	1	1	1	1	1	1	1	
6	1	101147-59810	BOLT 8, PIPE JOINT	2							
7	1	124160-39140	BOLT 10, PIPE JOINT		1	1	1	1	1	1	
8	1	124550-59820	BOLT 8, PIPE JOINT		1	3	3	3	3	3	
9	1	23414-080000	GASKET 8, ROUND	4	1	5		5			
10	1	23414-100000	GASKET 10, ROUND		2	2	2	2	2	2	
11	1	104884-59170	GASKET		1	1		1			
11-1	1	23414-080000	GASKET 8, ROUND		1	1	1	1	1	1	R
(B=EXXX) (C=EXXX) (E=EXXX)				1	1	1	1	1	1		
12	1	124450-39240	RETAINER, PIPE								
13	1	128170-39010	PIPE (B), LUB OIL	1							
14	1	128170-39020	PIPE, LUB OIL	1							
15	1	103854-39140	BOLT, PIPE JOINT	4							
16	1	23414-120000	GASKET 12, ROUND	8							
17	1	105582-39140	RETAINER (A)	1							

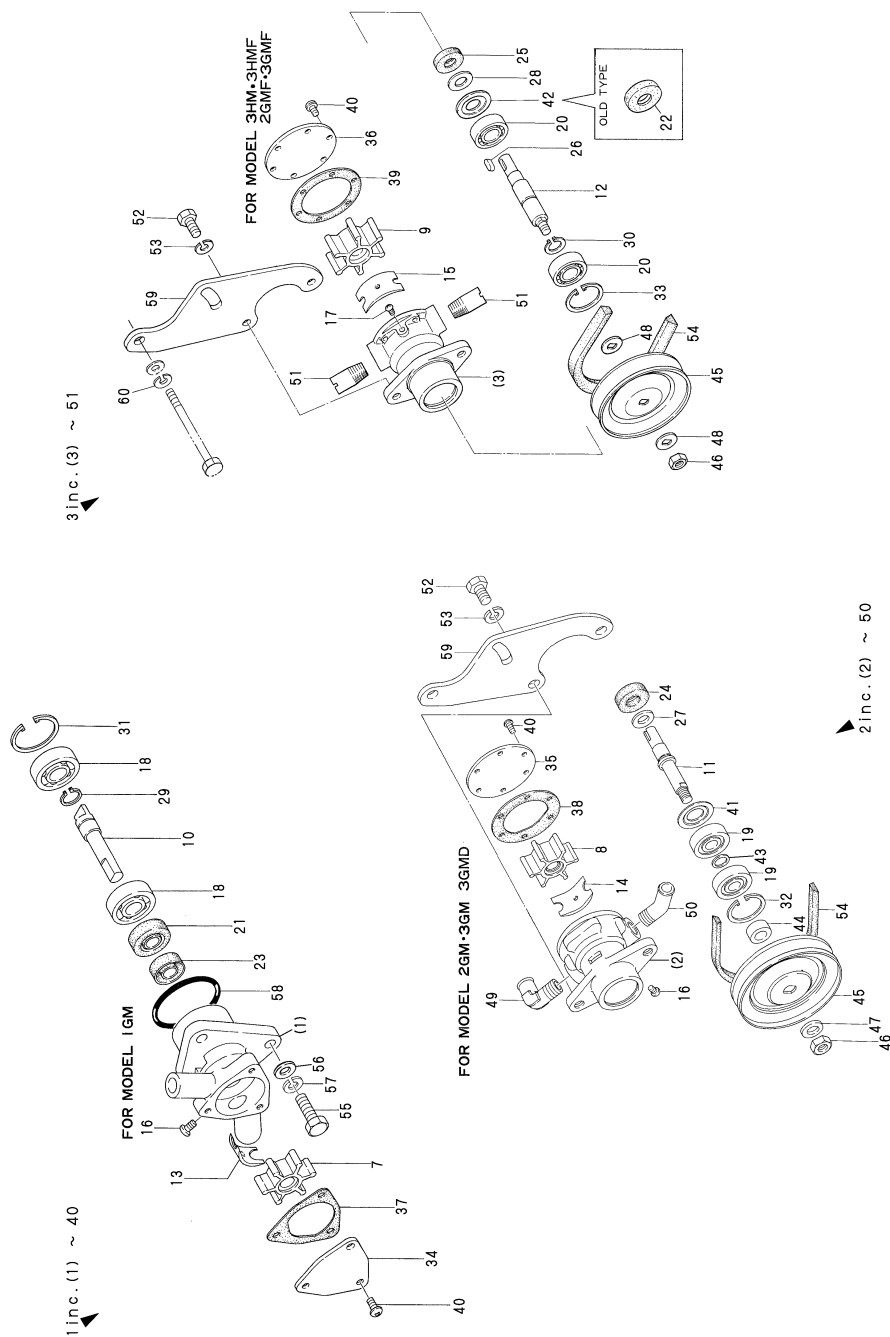
Fig.26.COOLING SEA WATER PUMP

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-42000	PUMP ASSY, C. WATER	1							
2	1	128270-42000	PUMP ASSY, C. WATER		1	1	1				
3	1	121575-42000	PUMP ASSY, C.S.W.		1	1		1	1		
7	2	128170-42070	IMPELLER, C. WATER	1							
8	2	104211-42070	IMPELLER, C. WATER		1	1	1				
9	2	124223-42091	IMPELLER, C. WATER		1	1		1	1		
10	2	128170-42060	SHAFT, IMPELLER	1							
11	2	124070-42060	SHAFT, IMPELLER		1	1	1				
12	2	121575-42020	SHAFT, IMPELLER		1	1		1	1		
13	2	128170-42050	CAM	1							
14	2	104211-42050	CAM		1	1	1				
15	2	124323-42100	CAM, IMPELLER		1	1		1	1		
16	2	26554-040062	SCREW M 4X 6	1	1	1	1				
17	2	26554-040102	SCREW M 4X 10		1	1		1	1		
18	2	24101-060004	BALL BEARING	2							
19	2	24107-062004	BALL BEARING		2	2	2				
20	2	24107-062024	BALL BEARING		2	2		2	2		
21	2	128170-42110	SEAL TC8 22 7, OIL	1							
22	2	124223-42160	SEAL, OIL							1	1
						(E=EXXX)			(F=EXXX)	Z	
23	2	124240-91450	SEAL, OIL	1							
24	2	104211-42100	SEAL TC10 25 7, OIL		1	1	1				
25	2	124223-42080	SEAL TC13 28 7, OIL		1	1		1	1		
26	2	124223-42040	KEY		1	1		1	1		
27	2	104211-42110	RING, WATER SEAL		1	1	1				
28	2	124223-42070	PIECE		1	1		1	1		
29	2	22242-000100	CIRCLIP 10	1							
30	2	22242-000150	CIRCLIP 15		1	1		1	1		
31	2	22252-000260	CIRCLIP 26	1							
32	2	22252-000300	CIRCLIP 30		1	1	1				
33	2	22252-000350	CIRCLIP 35		1	1		1	1		
34	2	128170-42080	COVER, END	1							
35	2	104211-42080	COVER, C.W. PUMP		1	1	1				
36	2	121575-42150	COVER		1	1		1	1		
37	2	128170-42090	GASKET	1							
38	2	104211-42090	GASKET		1	1	1				
39	2	124223-42110	GASKET		1	1		1	1		
40	2	26554-040082	SCREW M 4X 8	3	6	6	6	6	6		
41	2	104211-42120	RETAINER		1	1	1				
42	2	121575-42120	COVER		1	1		1	1	W	
						(E=EXXX)			(F=EXXX)		
43	2	104211-42130	SPACER		1	1	1				
44	2	124070-42410	COLLAR		1	1	1				
45	2	124070-42400	V-PULLEY, C.W. PUMP		1	1	1	1	1		
46	2	26347-080002	U-NUT 8		1	1	1	1	1		
47	2	124070-42420	WASHER		1	1	1	1			
48	2	124070-42420	WASHER		2	2		2	2		
49	2	105583-49910	ELBOW (PT1/4)		1	1	1				
50	2	128270-49300	ELBOW 1/4		1	1	1				
51	2	121575-49300	JOINT PT 3/8		2	2		2	2		
52	1	26116-080142	BOLT 8X14		2	2	2	2	2		
53	1	22217-080000	SPRING WASHER 8		2	2	2	2	2		
54	1	104511-78780	V-BELT		1	1	1	1	1		
55	1	26116-060202	BOLT M 6X 20	3							

++ CONTINUE ++



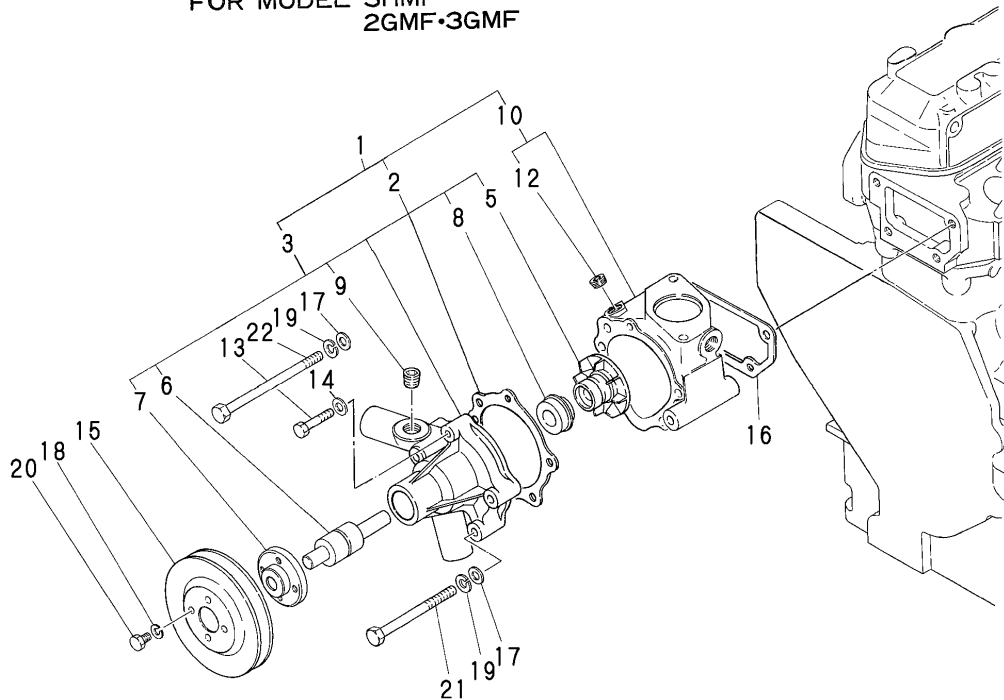


(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
56	1	22217-060000	SPRING WASHER 6	3							
57	1	22117-060000	WASHER 6	3							
58	1	24321-000350	O-RING 1A G-35.0	1							
59	1	128270-42150	BRACKET, C.W. PUMP		1		1	1	1		
60	1	22217-080000	SPRING WASHER 8		2	2		2	2	W	
					(E=EXXX)			(F=EXXX)			

Fig.27.COOLING FRESH WATER PUMP

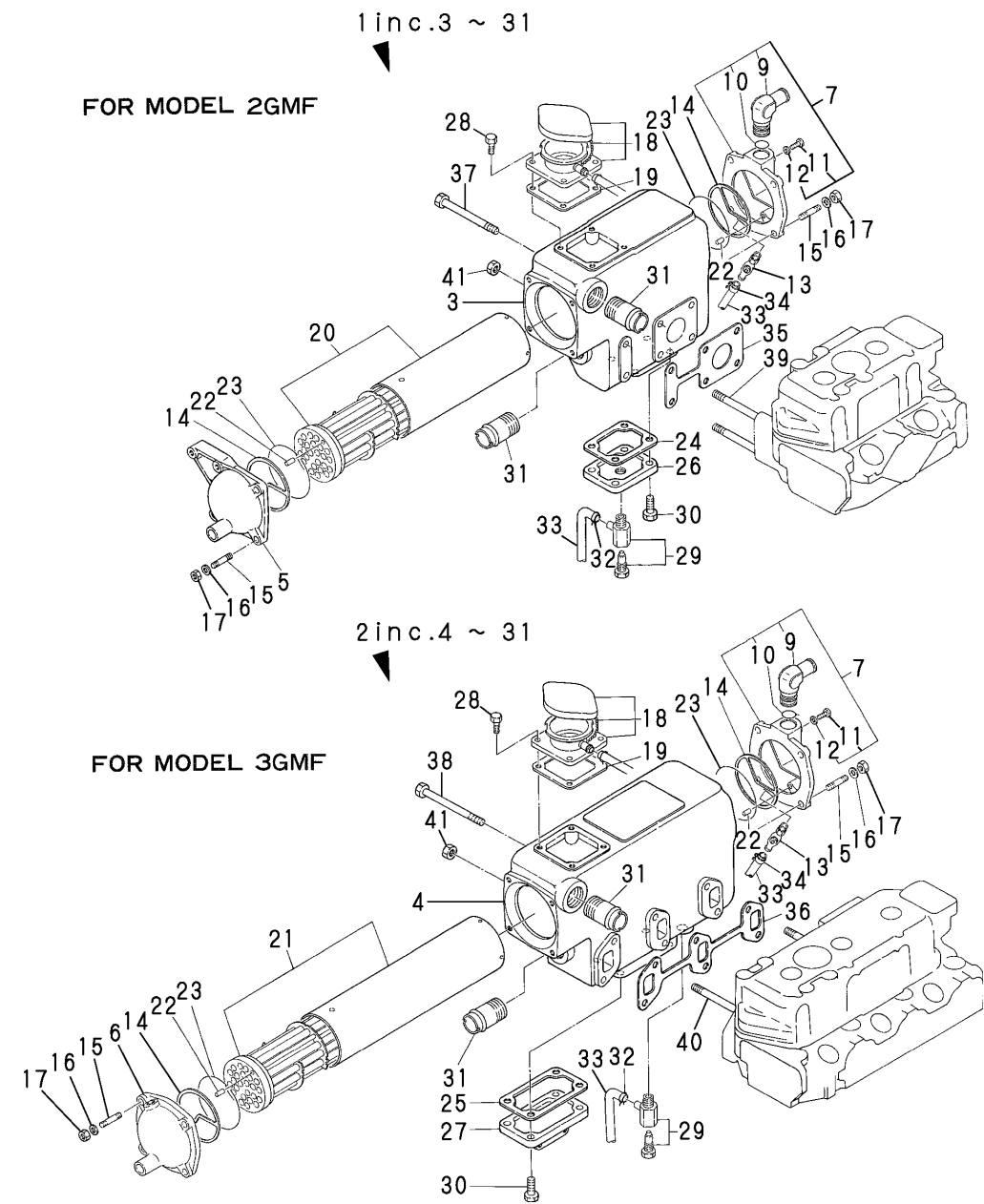
FOR MODEL 3HMF
2GMF•3GMF



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128695-42010	PUMP ASSY, C.F.W.	1	1				1		
2	2	121000-42050	GASKET, BODY	1	1				1		
3	2	121000-42100	BODY ASSY, C.W.PUMP	1	1				1		
5	3	129350-42200	IMPELLER	1	1				1		
6	3	121450-42240	SHAFT, IMPELLER	1	1				1		
7	3	121450-42260	FLANGE, V-PULLEY	1	1				1		
8	3	121450-42310	SEAL, MECHANICAL	1	1				1		
9	3	23871-030000	PLUG PT3/8,SCREW	1	1				1		
10	2	728695-43500	BRACKET ASSY, PUMP	1	1				1		
12	3	23871-020000	PLUG PT1/4,SCREW	1	1				1		
13	2	26117-060352	BOLT M 6X 35	1	1				1		
14	2	22117-060000	WASHER 6	1	1				1		
15	1	128695-42350	V-PULLEY	1	1				1		
16	1	121450-44410	GASKET, BRACKET	1	1				1		
17	1	22117-080000	WASHER 8	4	4				4		
18	1	22217-060000	SPRING WASHER 6	4	4				4		
19	1	22217-080000	SPRING WASHER 8	4	4				4		
20	1	26116-060102	BOLT M 6X 10 PLATED	4	4				4		
21	1	26116-080952	BOLT M 8X 95 PLATED	3	3				3		
22	1	26116-081152	BOLT M 8X115 PLATED	1	1				1		

Fig.28.COOLING FRESH WATER COOLER

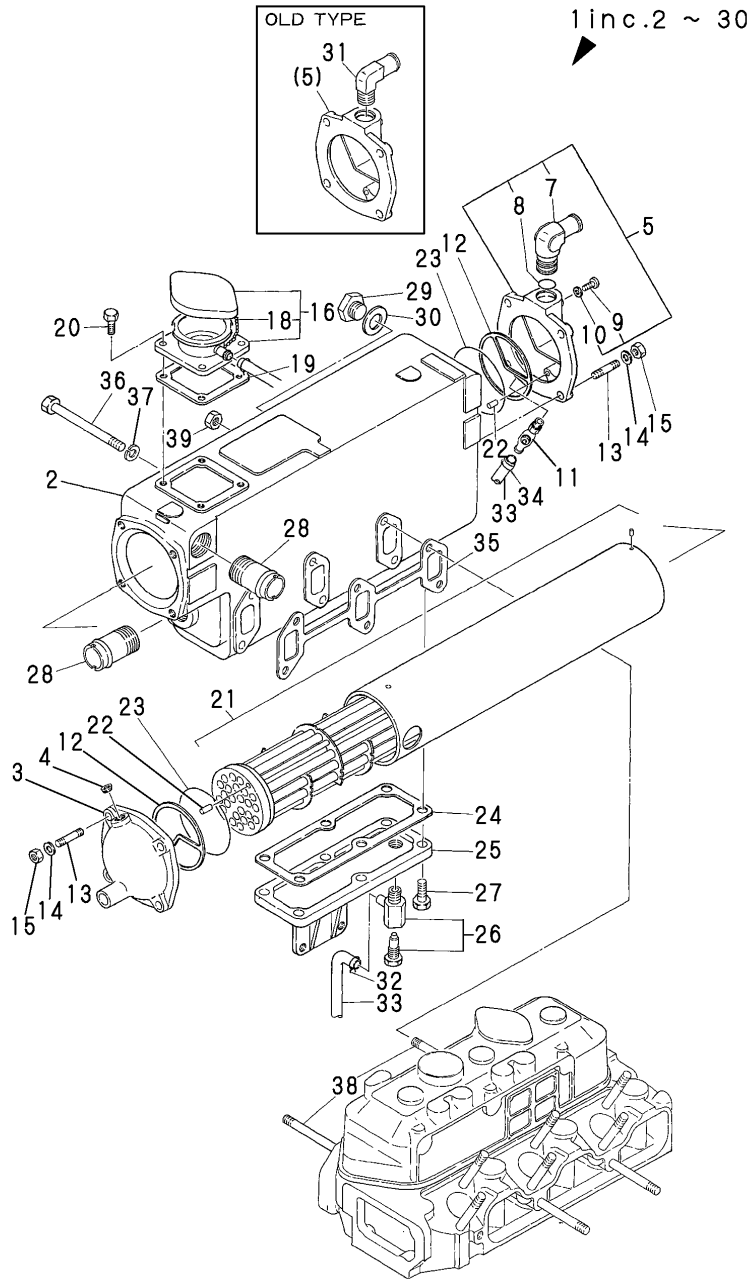


(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728290-44500	EXCHANGER ASSY, HEAT		1						
2	1	728390-44500	EXCHANGER ASSY, HEAT			1					
3	2	128290-44010	TANK, HEAT EXCHANGER		1						
4	2	128390-44010	TANK, HEAT EXCHANGER			1					
5	2	128290-44050	COVER, INLET		1						
6	2	128965-44050	COVER, INLET			1					
7	2	728690-44710	COVER (A) ASSY, SIDE	1	1						
9	3	128690-49310	ELBOW	1	1						
10	3	24311-000160	O-RING 1A P-16.0	1	1						
11	3	26554-050102	SCREW M 5X 10	1	1						
12	3	23414-050000	GASKET 5	1	1						
13	2	128695-44090	COCK PT1/8	1	1						
14	2	128695-44070	GASKET	2	2						
15	2	26216-060202	STUD M 6X 20 PLATED	8	8						
16	2	22117-060000	WASHER 6	8	8						
17	2	26716-060002	NUT 6	8	8						
18	2	123682-44190	FILLER W/BALL	1	1						
19	2	123672-44200	GASKET	1	1						
20	2	128290-44400	CORE ASSY, COOLER	1							
21	2	128390-44400	CORE ASSY, COOLER			1					
22	2	124790-44470	PIN	2	2						
23	2	24311-000700	O-RING 1A P-70.0	2	2						
24	2	121450-11680	GASKET,COVER	1							
25	2	128390-44490	GASKET			1					
26	2	128290-44480	COVER, TANK	1							
27	2	128390-44480	COVER, TANK			1					
28	2	26116-060162	BOLT 6X16	4	4						
29	2	43600-500290	COCK 1/4	1	1						
30	2	26116-080202	BOLT M 8X 20 PLATED	4	4						
31	2	124160-49480	JOINT, PIPE	2	2						
32	1	124460-77680	RETAINER	1	1						
33	1	23061-070300	PIPE 7X 300	2	2						
34	1	124722-59050	CLAMP 9	1	1						
35	1	128290-13250	GASKET	1							
36	1	121450-13250	GASKET, EXH.MANIFOLD			1					
37	1	26116-080852	BOLT M 8X 85 PLATED	4							
38	1	26116-080902	BOLT M 8X 90 PLATED			4					
39	1	26216-080852	STUD M 8X 85 PLATED	2							
40	1	26216-080902	STUD M 8X 90 PLATED			2					
41	1	26716-080002	NUT M 8	2	2						

Fig.29.C.F.W.COOLER(3HMF)

FOR MODEL 3HMF

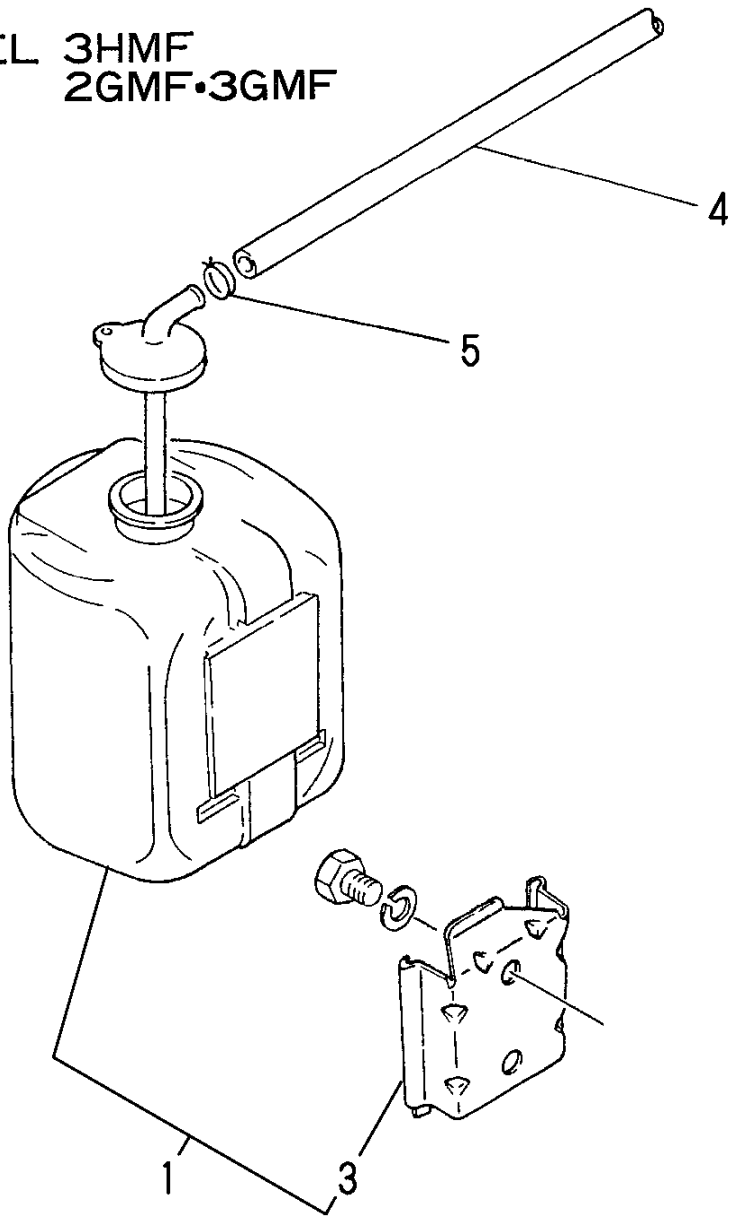


(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728695-44500	EXCHANGER ASSY, HEAT							1	
1-1	1	728695-44501	EXCHANGER ASSY, HEAT							1	N
									(F=EXXX)		
2	2	128695-44010	TANK, HEAT EXCHANGER							1	
3	2	128695-44050	COVER, SIDE							1	
4	2	23873-010000	PLUG PT 1/8							1	Z
									(F=EXXX)		
5	2	728690-44710	COVER (A) ASSY, SIDE							1	W
									(F=EXXX)		
7	3	128690-49310	ELBOW							1	W
									(F=EXXX)		
8	3	24311-000160	O-RING 1A P-16.0							1	W
									(F=EXXX)		
9	3	26554-050102	SCREW M 5X 10							1	W
									(F=EXXX)		
10	3	23414-050000	GASKET 5							1	W
									(F=EXXX)		
11	2	128695-44090	COCK PT1/8							1	
12	2	128695-44070	GASKET							2	
13	2	26216-060202	STUD M 6X 20 PLATED							8	
14	2	22117-060000	WASHER 6							8	
15	2	26716-060002	NUT 6							8	
16	2	123682-44190	FILLER W/BALL							1	
18	3	123682-44220	CHAIN							1	
19	2	123672-44200	GASKET							1	
20	2	26116-060162	BOLT 6X16							4	
21	2	128695-44400	CORE ASSY, COOLER							1	
22	2	124790-44470	PIN							2	
23	2	24311-000700	O-RING 1A P-70.0							2	
24	2	120345-13160	GASKET							1	
25	2	128695-44480	COVER							1	
26	2	43600-500290	COCK 1/4							1	
27	2	26116-080202	BOLT M 8X 20 PLATED							6	
28	2	124160-49480	JOINT, PIPE							2	
29	2	23897-030002	PLUG PF3/8							1	
30	2	23414-170022	GASKET 17							1	
31	1	124070-13300	ELBOW (PT3/8)							1	Z
									(F=EXXX)		
32	1	124460-77680	RETAINER							1	
33	1	23061-070300	PIPE 7X 300							2	
34	1	124722-59050	CLAMP 9							1	
35	1	121550-13520	GASKET							1	
36	1	26116-080902	BOLT M 8X 90 PLATED							4	
37	1	22217-080000	SPRING WASHER 8							4	
38	1	26216-080902	STUD M 8X 90 PLATED							2	
39	1	26716-080002	NUT M 8							2	

Fig.30.SUB-TANK

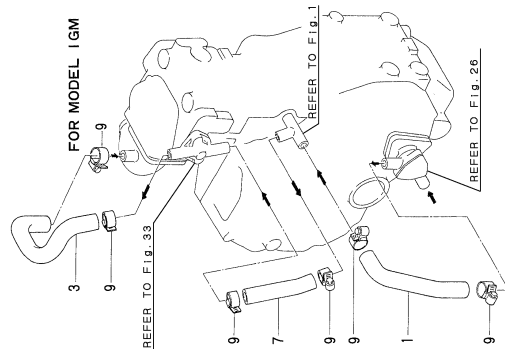
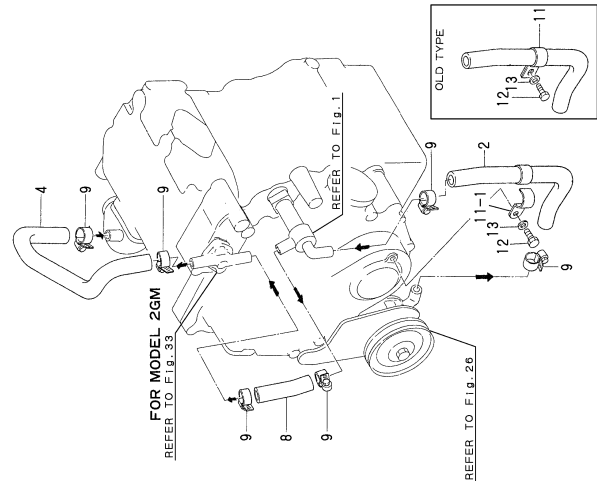
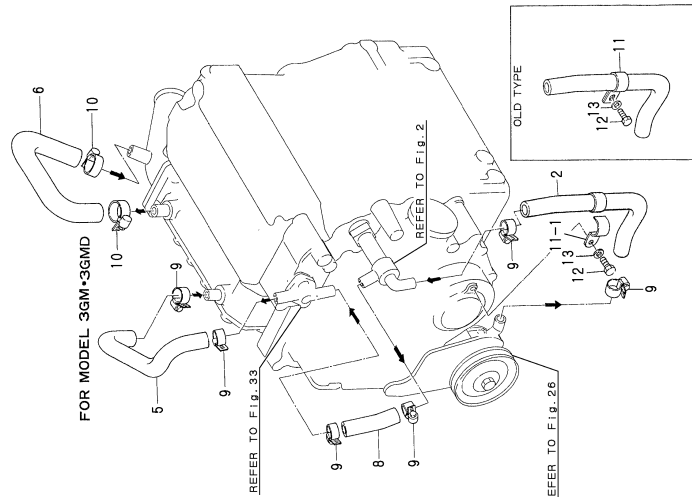
FOR MODEL 3HMF
2GMF•3GMF



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	720445-44200	SUB RESERVOIR ASSY		1	1				1	
3	1	120445-44540	BRACKET, SUB-TANK		1	1				1	
4	1	124790-44560	PIPE, C. WATER		1	1				1	
5	1	23010-013000	CLAMP, HOSE 13		2	2				2	

Fig.31.COOLING WATER PIPE



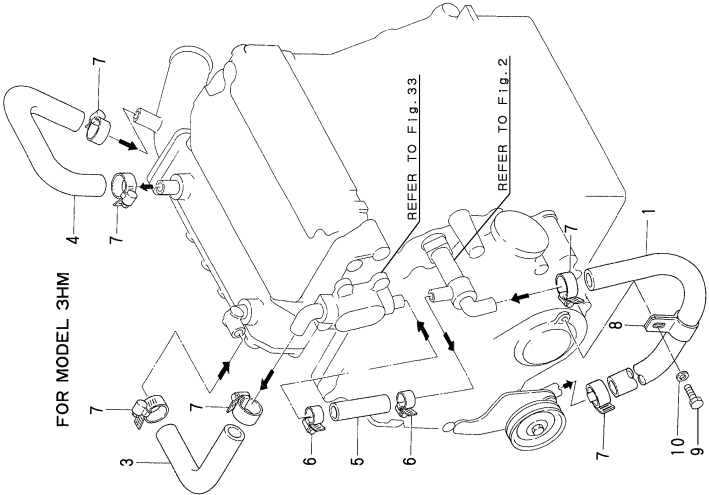
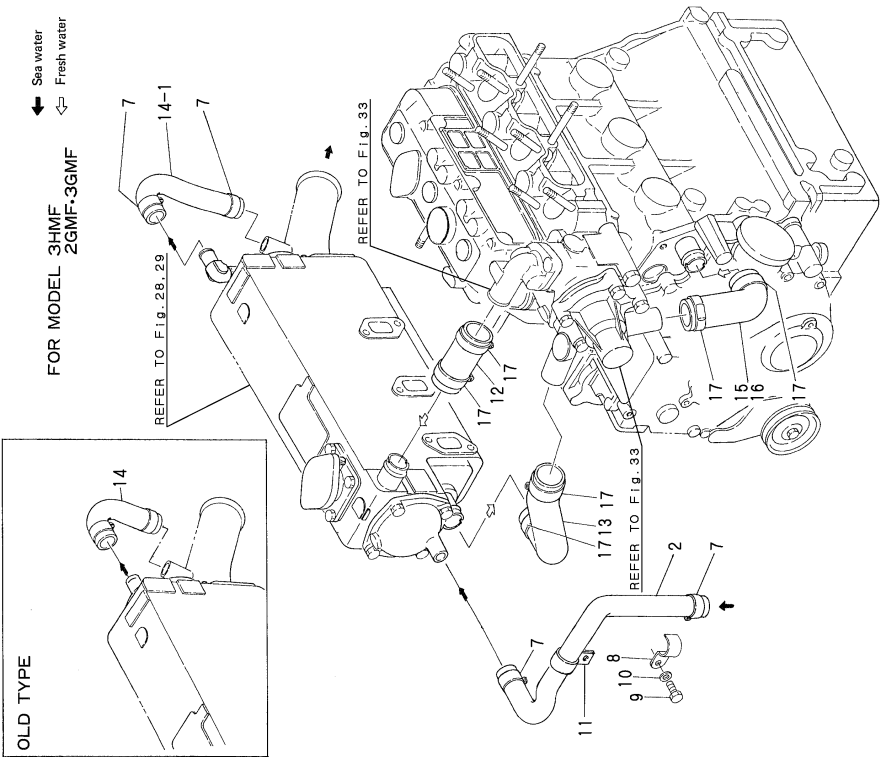
(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

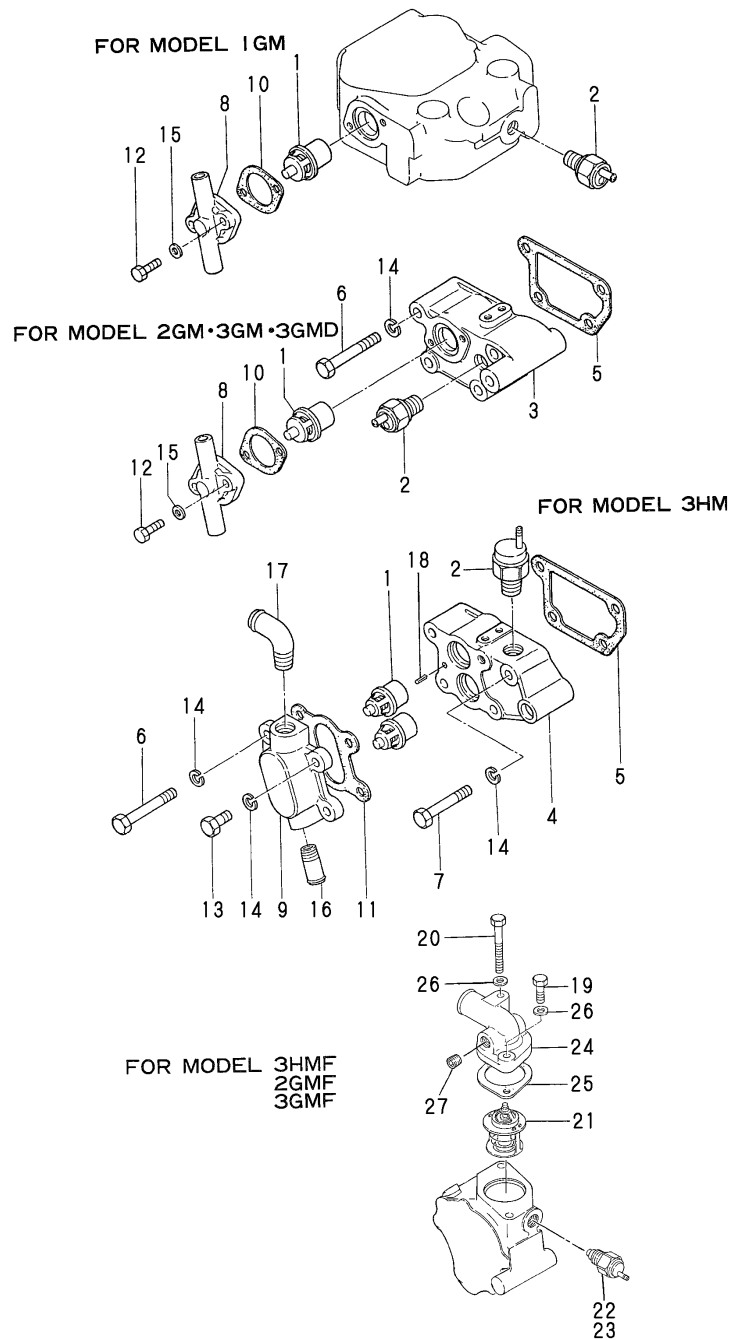
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-49010	PIPE, COOLING WATER	1							
2	1	128270-49010	PIPE, COOLING WATER		1	1	1				
2-1	1	128270-49110	PIPE, COOLING WATER		1	1	1				R
		(B=E/#00643)	(C=E/#00380)								
2-2	1	128270-49010	PIPE, COOLING WATER		1	1	1				R
		(B=E/#02383)	(C=E/#01668)								
3	1	128170-49040	PIPE, COOLING WATER	1							
4	1	128270-49020	PIPE, COOLING WATER		1						
5	1	128370-49020	PIPE, COOLING WATER			1	1				
6	1	128370-49030	PIPE, COOLING WATER			1					
6-1	1	121370-49040	PIPE, COOLING WATER			1	1				R
		(C=E/#00012)									
7	1	128170-49050	PIPE, COOLING WATER	1							
8	1	128270-49050	PIPE, COOLING WATER		1	1	1				
9	1	23000-022000	CLAMP 22	6	6	6	6				
10	1	23000-025000	CLAMP 25			2	2				
11	1	23297-200061	RETAINER 20X 6		1	1	1				
11-1	1	124070-49310	RETAINER		1	1	1				N
		(B=*1980.09)	(C=*1980.09)								
12	1	26116-060122	BOLT 6X12		1	1	1				
13	1	22137-060000	WASHER 6, POLISHED		1	1	1				

Fig.32.C.W.PIPE(2,3GMF,3HMF)

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

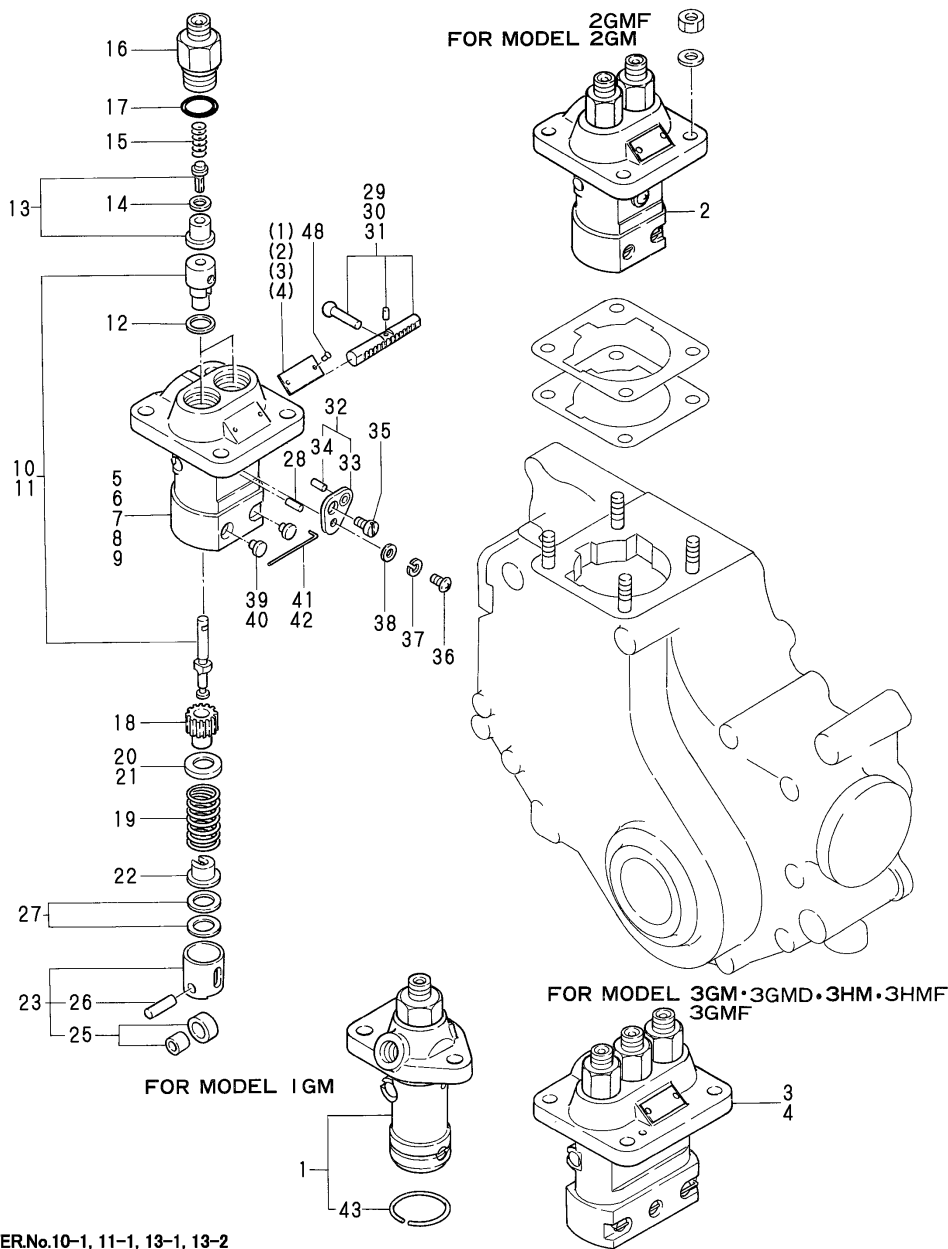
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128670-49010	PIPE (B), C.WATER					1			
2	1	128690-49010	PIPE (B), C. WATER		1	1			1		
3	1	121575-49020	PIPE (B), C. WATER					1			
4	1	128370-49030	PIPE, COOLING WATER					1			
4-1	1	121370-49040	PIPE, COOLING WATER					1		R	
(E=E#00019)											
5	1	128270-49050	PIPE, COOLING WATER					1			
6	1	23000-022000	CLAMP 22					2			
7	1	23000-025000	CLAMP 25		4	4		6	4		
8	1	121575-49310	CLAMP					1	1		
8-1	1	124070-49310	RETAINER					1	1	N	
(E=*1980.09) (F=*1980.09)											
9	1	26116-060102	BOLT M 6X 10 PLATED		1	1		1	1		
10	1	22137-060000	WASHER 6, POLISHED		1	1		1	1		
11	1	121575-49310	CLAMP		1	1			1		
12	1	128695-49520	PIPE (E), C. WATER		1	1			1		
13	1	128695-49530	PIPE (F), C. WATER		1	1			1		
14	1	128695-49020	PIPE (C), C. WATER						1		
14-1	1	124770-49040	PIPE, COOLING WATER		1	1			1	S	
(F=EXXX)											
15	1	128695-49530	PIPE (F), C. WATER						1		
16	1	128290-49510	PIPE, COOLING WATER		1	1					
17	1	23000-041000	CLAMP 41		6	6			6		





				(A)=1GM (B)=2GM(F) (C)=3GM(F)	(D)=3GMD (E)=3HM (F)=3HMF						
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105582-49200	THERMOSTAT	1	1	1	1	2			
2	1	127610-91340	SWITCH, THERMO	1	1	1	1	1			
2-1	1	128275-91340	SWITCH, THERMO(65C	1	1	1	1	1	N		
(A=E#01256) (B=*1980.12) (C=*1980.12) (D=*1980.12) (E=*1980.12)											
3	1	128270-49100	BRACKET, THERMOSTAT		1	1	1				
4	1	121575-49100	BRACKET						1		
5	1	121450-44410	GASKET, BRACKET		1	1	1	1			
6	1	26116-080602	BOLT M 8X 60 PLATED		4	4	4	4	3		
7	1	26116-080502	BOLT M 8X 50 PLATED						1		
8	1	128170-49150	COVER, THERMOSTAT	1	1	1	1				
9	1	121575-49150	COVER, THERMOSTAT						1		
10	1	104211-49160	PACKING	1	1	1	1				
11	1	121575-49160	PACKING						1		
12	1	26116-060202	BOLT M 6X 20	2	2	2	2				
13	1	26116-080202	BOLT M 8X 20 PLATED						1		
14	1	22217-080000	SPRING WASHER 8		4	4	4	4	5		
15	1	22117-060000	WASHER 6	2	2	2	2				
16	1	104271-49060	JOINT						1		
17	1	124070-13300	ELBOW (PT3/8)						1		
18	1	22351-040008	SPRING PIN 4X 8						1		
19	1	26116-080282	BOLT M 8X 28 PLATED		1	1					1
20	1	26116-080652	BOLT M 8X 65 PLATED		1	1					1
21	1	121750-49800	THERMOSTAT		1	1					1
22	1	127610-91350	SWITCH, THERMO		1	1					1
23	1	127610-91360	SWITCH, THERMO		1	1					1
24	1	128690-49530	COVER, THERMOSTAT		1	1					1
25	1	124736-49540	GASKET, THERMO.		1	1					1
26	1	22137-080000	WASHER 8, POLISHED		2	2					2
27	1	23871-030000	PLUG PT3/8,SCREW		1	1					1

Fig.34.FUEL INJECTION PUMP



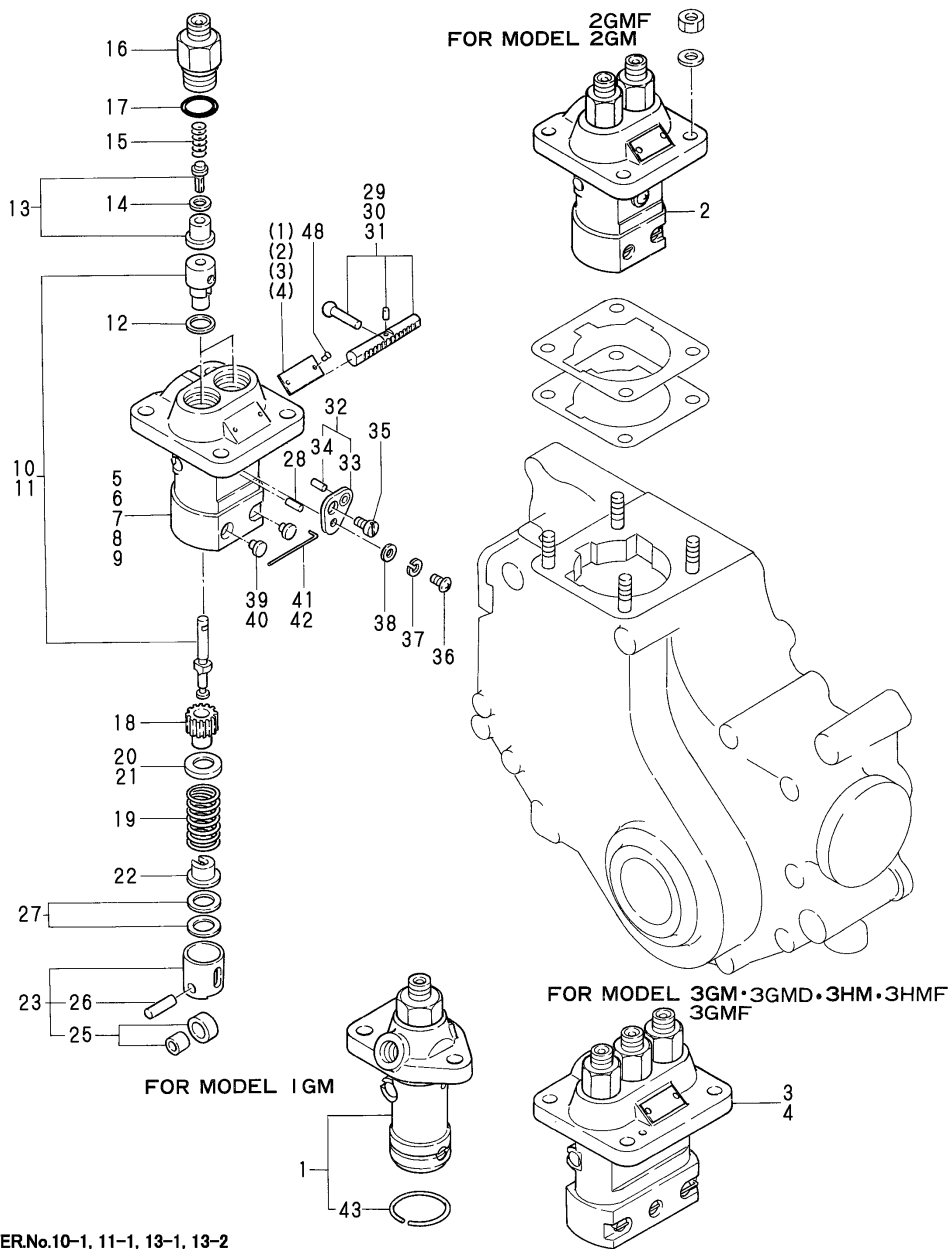
REFER.No.10-1, 11-1, 13-1, 13-2
1. When replacing the plunger (10-1, 11-1) or the valve (13-1, 13-2) replace all the quantities required per engine simultaneously with new ones.
2. New type pump assembly has been supplied since 1981, July.
3. Applicable engine numbers: 1GM 02350~, 2GM 02252~, 3GMD 01615~, 3HM 00991~, 3HMF 00023~)

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-51700	PUMP ASSY, F. INJECT	1							
1-1	1	728170-51101	PUMP ASSY, F. INJECT	1							N
(A=E/#02350)											
2	1	728270-51700	PUMP ASSY, F. INJECT	1							
2-1	1	728270-51101	PUMP ASSY, F. INJECT	1							N
(B=E/#02252)											
3	1	728370-51700	PUMP ASSY, F. INJECT				1	1			
3-1	1	728370-51101	PUMP ASSY, F.INJECT.				1	1			N
(C=*1981.07) (D=E/#01615)											
4	1	721575-51700	PUMP ASSY, F. INJECT						1	1	
4-1	1	728696-51100	PUMP ASSY, F.INJECT.						1	1	N
(E=E/#00991) (F=E/#00023)											
5	2	128170-51010	BODY, FUEL I. PUMP	1							
6	2	124950-51010	BODY, FUEL I. PUMP		1						
7	2	128370-51010	BODY, FUEL I. PUMP			1	1				
8	2	121450-51010	BODY, FUEL I. PUMP					1	1		
9	2	128370-51010	BODY, FUEL I. PUMP					1	1		
10	2	128170-51100	PLUNGER W/BARREL	1	2	3	3				
10-1	2	128170-51101	PLUNGER W/BARREL	1	2	3	3				S
(A=E/#02350) (B=E/#02252) (C=*1981.07) (D=E/#01615)											
11	2	121575-51100	PLUNGER W/BARREL					3	3		
11-1	2	128696-51100	PLUNGER W/BARREL					3	3		S
(E=E/#00991) (F=E/#00023)											
12	2	124950-51270	GASKET	1	2	3	3	3	3		
13	2	124060-51300	VALVE W/SEAT, DELIV.	1	2	3	3	3	3		
13-1	2	128170-51300	VALVE W/SEAT, DELIV.	1	2	3	3				S
(A=E/#02350) (B=E/#02252) (C=*1981.07) (D=E/#01615)											
13-2	2	128696-51300	VALVE W/SEAT, DELIV.					3	3		S
(E=E/#00991) (F=E/#00023)											
14	2	124550-51350	GASKET, DELIVERY	1	2	3	3	3	3		
15	2	124550-51320	SPRING, DELIV. VALVE	1	2	3	3	3	3		
16	2	124550-51341	RETAINER	1	2	3	3	3	3		
17	2	124550-51370	O-RING, DELIVERY	1	2	3	3	3	3		
18	2	124950-51510	PINION	1	2	3	3	3	3		
19	2	124950-51190	SPRING, PLUNGER	1	2	3	3	3	3		
20	2	124950-51170	RETAINER A	1	2						
21	2	174307-51170	RETAINER A			3	3	3	3		
22	2	174307-51181	RETAINER B	1	2	3	3	3	3		
23	2	724550-51520	GUIDE, PLUNGER	1	2	3	3	3	3		
25	3	711100-51540	ROLLER ASSY	1	2	3	3	3	3		
26	3	174100-54120	PIN, ROLLER	1	2	3	3	3	3		
27	2	174307-51700	SHIM SET	1	2	3	3	3	3		
28	2	103854-51251	PIN, PLUNGER	1	1	1	1	1	1		
29	2	128170-51500	RACK, CONTROL	1							
30	2	124085-51500	RACK, CONTROL		1						
31	2	121450-51500	RACK, CONTROL			1	1	1	1		
32	2	124950-51640	SHIM SET, CONTROL		1	2	2	2	2		
33	3	124950-51650	PLATE		1	2	2	2	2		
34	3	124950-51670	PIN		1	2	2	2	2		
35	2	103854-51660	SCREW		1	2	2	2	2		
36	2	26587-050122	SCREW M 5X 12		1	2	2	2	2		
36-1	2	26587-050102	SCREW M 5X 10		1	2	2	2	2		N
(B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)											
37	2	22217-050000	SPRING WASHER 5		1	2	2	2	2		

++ CONTINUE ++

Fig.34.FUEL INJECTION PUMP



REFER.No.10-1, 11-1, 13-1, 13-2

1. When replacing the plunger (10-1, 11-1) or the valve (13-1, 13-2) replace all the quantities required per engine simultaneously with new ones.

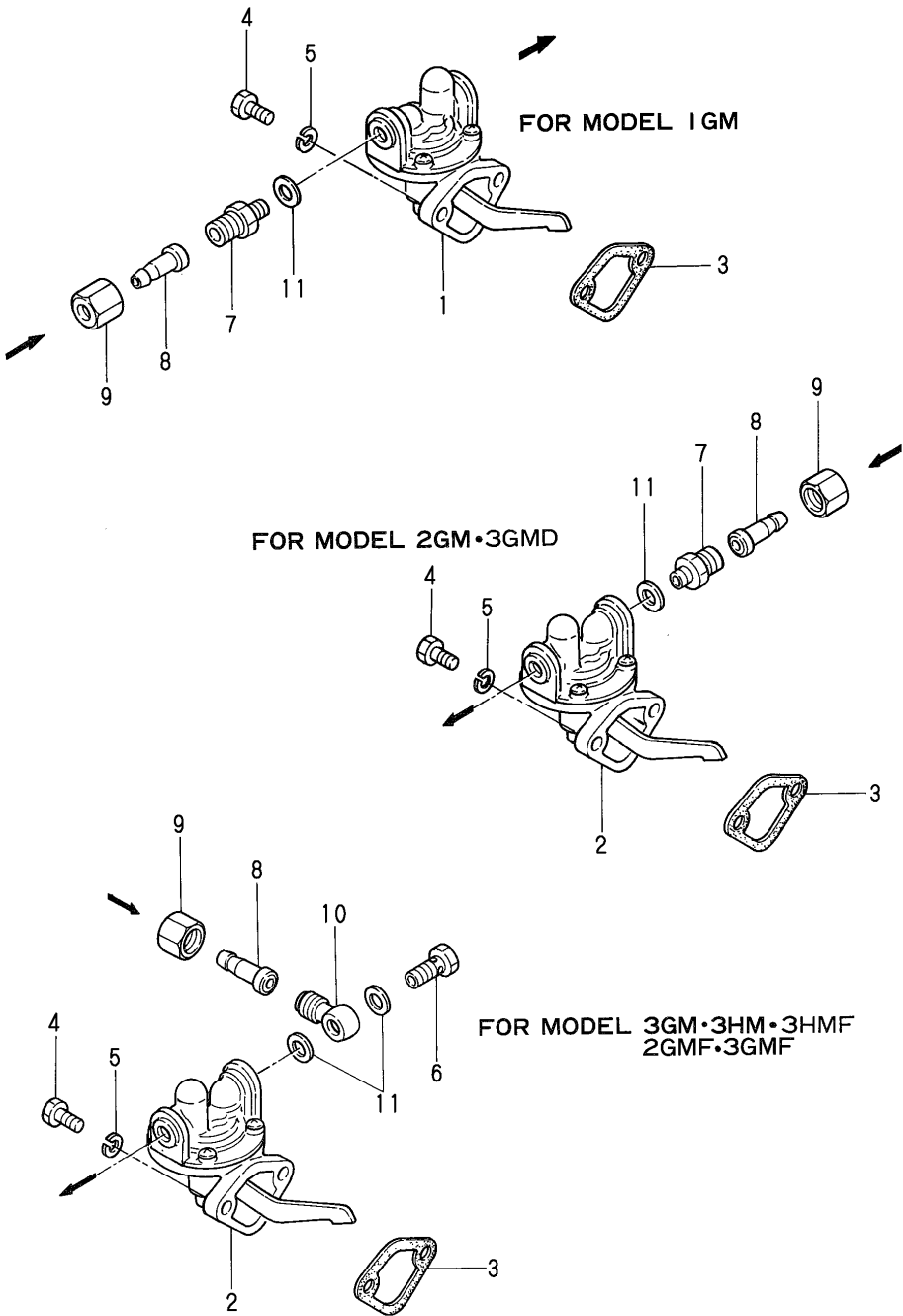
2. New type pump assembly has been supplied since 1981, July.

3. Applicable engine numbers: 1GM 02350~, 2GM 02252~, 3GMD 01615~, 3HM 00991~, 3HMF 00023~)

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

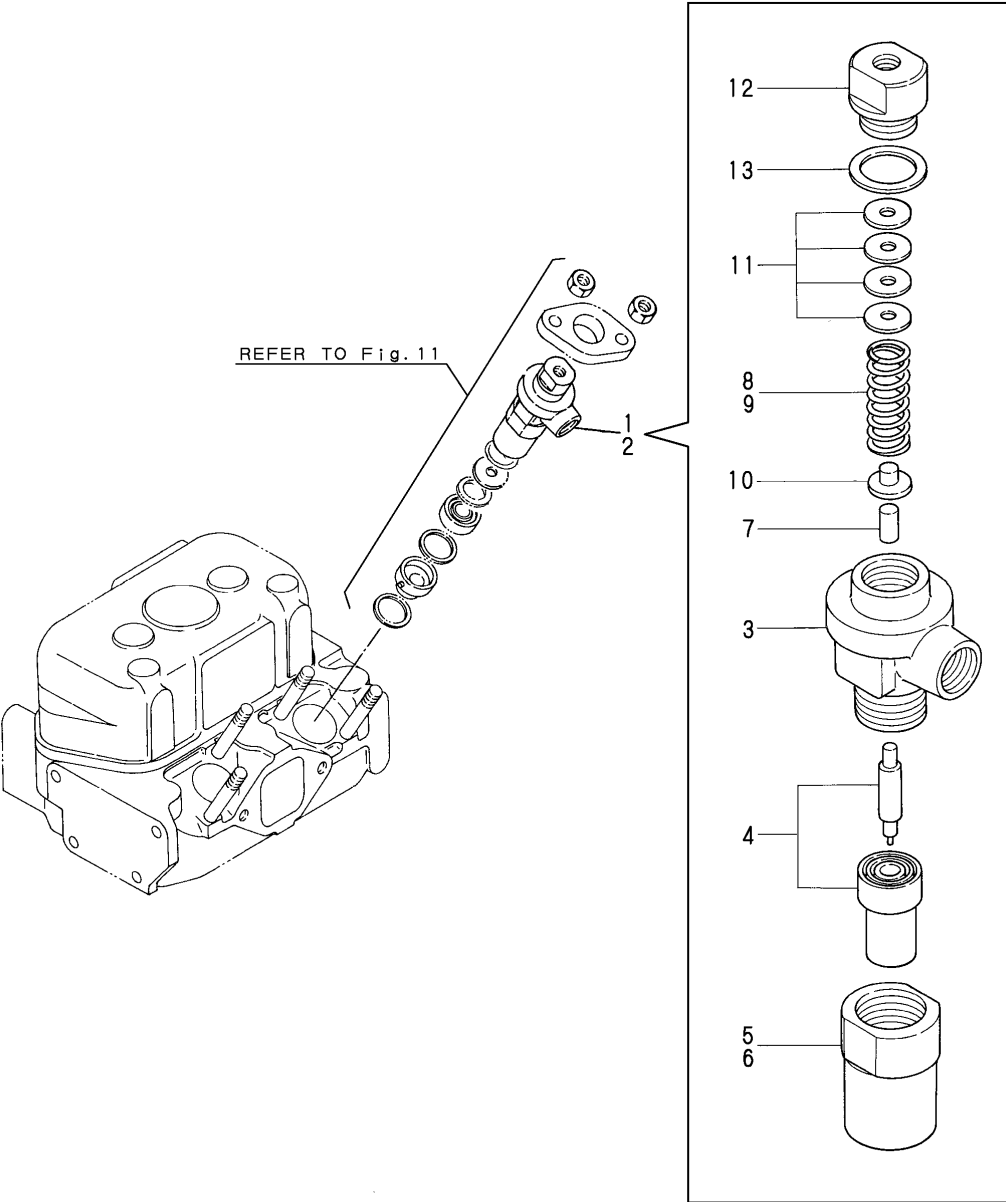
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
38	2	22137-050000	WASHER 5, POLISHED		1	2	2	2	2		
39	2	104271-51450	PIECE, GUIDE	1							
40	2	124950-51450	PIECE, GUIDE		2	3	3	3	3		
41	2	174307-51460	PIN		1						
42	2	121150-51460	PIN			1	1	1	1		
43	2	104271-51460	CIRCLIP	1							
48	2	124220-51890	RIVET, LABEL	2	2	2	2	2	2		

Fig.35.FUEL FEED PUMP



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105582-52010	PUMP ASSY, FUEL FEED	1							
2	1	121256-52020	PUMP ASSY, FUEL FEED		1	1	1	1	1		
3	1	121400-01850	GASKET, F.FEED PUMP	1	1	1		1			
3-1	1	121520-01850	GASKET, F.FEED PUMP	1	1	1	1	1	1		R
	(A=*1981.01)	(B=*1981.01)	(C=*1981.01)	(E=*1981.01)							
4	1	26116-060162	BOLT 6X16	2	2	2	2	2	2		
5	1	22217-060000	SPRING WASHER 6	2	2	2	2	2	2		
6	1	105582-59150	BOLT, PIPE JOINT		1	1		1	1		
7	1	124772-59650	UNION	1	1		1				
8	1	124772-59660	JOINT	1	1	1	1	1	1		
9	1	124772-59670	CAP NUT	1	1	1	1	1	1		
10	1	128370-59650	JOINT, PIPE		1	1		1	1		
11	1	23414-080000	GASKET 8, ROUND	1	1	2	1	2	2		

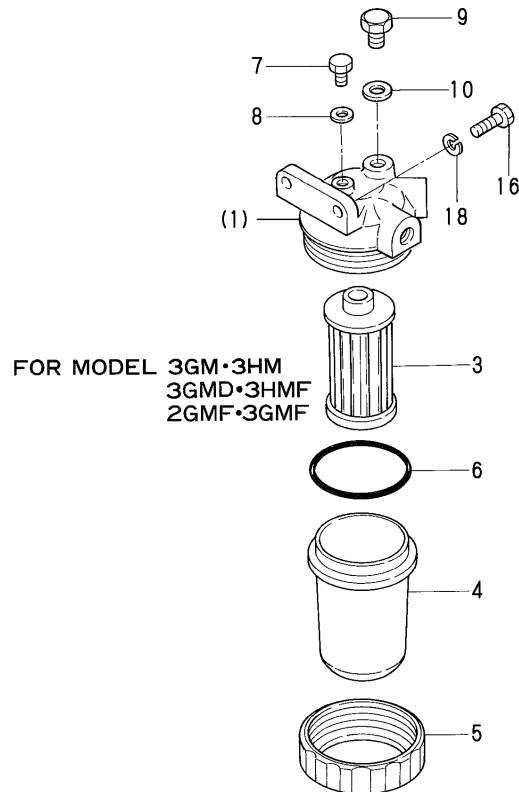
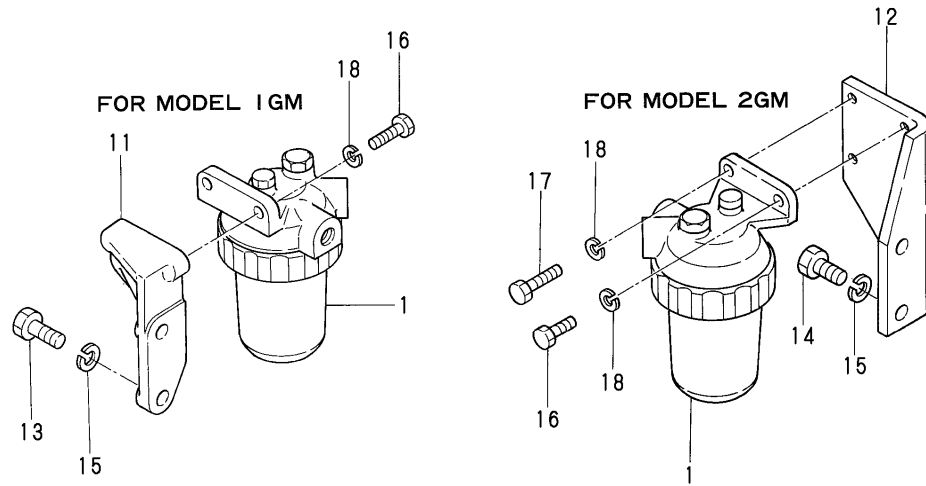
Fig.36.FUEL INJECTION VALVE



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-53100	VALVE ASSY, F.INJECT	1	2	3	3				
2	1	724060-53101	VALVE ASSY, F.INJECT					3	3		
3	2	103854-53100	BODY, F.I. VALVE	1	2	3	3	3	3		
4	2	124770-53000	NOZZLE ASSY,F.INJECT	1	2	3	3	3	3		
5	2	128170-53080	HOLDER, VALVE W/CASE	1	2	3	3				
6	2	104200-53080	HOLDER, VALVE W/CASE					3	3		
7	2	113200-53110	SPINDLE, INTER	1	2	3	3	3	3		
8	2	104211-53120	SPRING, NOZZLE	1	2	3	3				
9	2	103854-53120	SPRING, NOZZLE					3	3		
9-1	2	104211-53120	SPRING, NOZZLE					3	3	R	
				(E=EXXX)				(F=EXXX)			
10	2	113200-53120	SHOE, SPRING	1	2	3	3	3	3		
11	2	110250-53150	SHIM SET	1	2	3	3	3	3		
12	2	103854-53180	RETAINER, NOZ.SPRING	1	2	3	3	3	3		
13	2	172100-53200	GASKET	1	2	3	3	3	3		

Fig.37.FUEL STRAINER



Y00R0902 37.FUEL STRAINER

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124790-55601	STRAINER ASSY, FUEL	1	1	1	1	1	1		
3	2	104500-55710	ELEMENT, FUEL	1	1	1	1	1	1		
4	2	121370-55730	CUP, STRAINER	1	1	1	1	1	1		
5	2	110250-55610	RING, RETAINING	1	1	1	1	1	1		
6	2	24341-000440	O-RING 1A S-44.0	1	1	1	1	1	1		
7	2	101720-55750	PLUG	1	1	1	1	1	1		
8	2	23418-060000	GASKET 6, NYLON	1	1	1	1	1	1		
9	2	135210-51900	PLUG	1	1	1	1	1	1		
10	2	23414-080012	GASKET 8	1	1	1	1	1	1		
11	1	128170-55610	BRACKET, STRAINER	1							
12	1	128270-55610	BRACKET, STRAINER		1						
13	1	26116-080202	BOLT M 8X 20 PLATED	2							
14	1	26116-080162	BOLT 8X16		2						
15	1	22217-080000	SPRING WASHER 8	2	2						
16	1	26116-060182	BOLT M 6X 18	2	1	2	2	2	2		
17	1	26116-060252	BOLT 6X25		1						
18	1	22217-060000	SPRING WASHER 6	2	2	2	2	2	2		

Fig.38.FUEL PIPE

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-59810	PIPE (A), F. INJECT.	1							
2	1	128270-59810	PIPE (A), F. INJECT.		1						
3	1	128370-59810	PIPE (A), F. INJECT.			1	1				
4	1	121550-59810	PIPE (A), F. INJECT.					1			
5	1	128695-59810	PIPE (1), F. INJECT.						1		
6	1	128270-59820	PIPE (B), F. INJECT.		1						
7	1	128370-59820	PIPE (B), F. INJECT.			1	1				
8	1	121550-59820	PIPE (B), F. INJECT.					1			
9	1	128695-59820	PIPE (2), F. INJECT.						1		
10	1	128370-59830	PIPE (C), F. INJECT.			1	1				
11	1	121550-59830	PIPE (C), F. INJECT.					1			
12	1	128695-59830	PIPE (3), F. INJECT.						1		
13	1	121450-59850	BRACKET (A)		1	1	1	1	1		
14	1	123325-59100	RETAINER		2	2		2			Z
		(B=*1980.11)	(C=*1980.11)				(E=*1980.11)				
15	1	123325-59110	COVER		2	2		2			
15-1	1	122780-59100	RETAINER		1						R
		(B=*1980.12)									
15-2	1	123372-59100	CLAMP		1	2	2	2	2		R
		(B=*1980.12)	(C=*1980.12)				(E=*1980.12)				
16	1	121250-59860	RETAINER (B)			1	1	1	1		
17	1	121250-59860	RETAINER (B)		1						Z
		(B=*1980.11)									
18	1	26116-060102	BOLT M 6X 10 PLATED		2	2	2	2	2		
19	1	26116-060162	BOLT 6X16		4	4	4	4	4		
19-1	1	26116-060162	BOLT 6X16		2						K
		(B=EXXX)									
20	1	128170-59010	PIPE (A) ASSY, FUEL	1							
21	1	128270-59010	PIPE (A) ASSY, FUEL		1						
22	1	128370-59010	PIPE (A) ASSY, FUEL			1	1				
23	1	128670-59010	PIPE (A) ASSY, FUEL					1			
24	1	128690-59010	PIPE (A) ASSY, FUEL						1		
25	1	128170-59080	PIPE (B), FUEL OIL	1							
26	1	128270-59080	PIPE (B), FUEL OIL		1						
27	1	128370-59080	PIPE (B), FUEL OIL			1	1				
28	1	128670-59080	PIPE (B), FUEL OIL					1			
29	1	128690-59080	PIPE							1	
30	1	124450-39240	RETAINER, PIPE	1	1	1	1				
31	1	22117-080000	WASHER 8	1	1	1	1				
32	1	105582-59150	BOLT, PIPE JOINT	1	1	1	1	1	1		
33	1	23414-080000	GASKET 8, ROUND	2	2	2	2	2	2		
34	1	124060-59380	PLUG	1	1	1	1	1	1	1	Z
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)	(E=EXXX)	(F=EXXX)				
35	1	180110-51910	GASKET, PLUG	1	1	1	1	1	1	1	Z
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)	(E=EXXX)	(F=EXXX)				
36	1	103854-59200	BOLT 12, PIPE JOINT	1	1	1	1	1	1	1	Z
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)	(E=EXXX)	(F=EXXX)				
37	1	23414-120000	GASKET 12, ROUND	6	6	6	6	6	6	6	
38	1	23857-060000	JOINT BOLT 6	2	2	2	2	2	2	2	
39	1	104264-59030	JOINT 8, PIPE	1							
40	1	105311-59500	PIPE, FUEL RETURN		1						
41	1	128370-59500	PIPE, FUEL RETURN			1	1				
42	1	121575-59500	PIPE, FUEL RETURN					1	1		
43	1	101147-59810	BOLT 8, PIPE JOINT	1	2	3	3	3	3		

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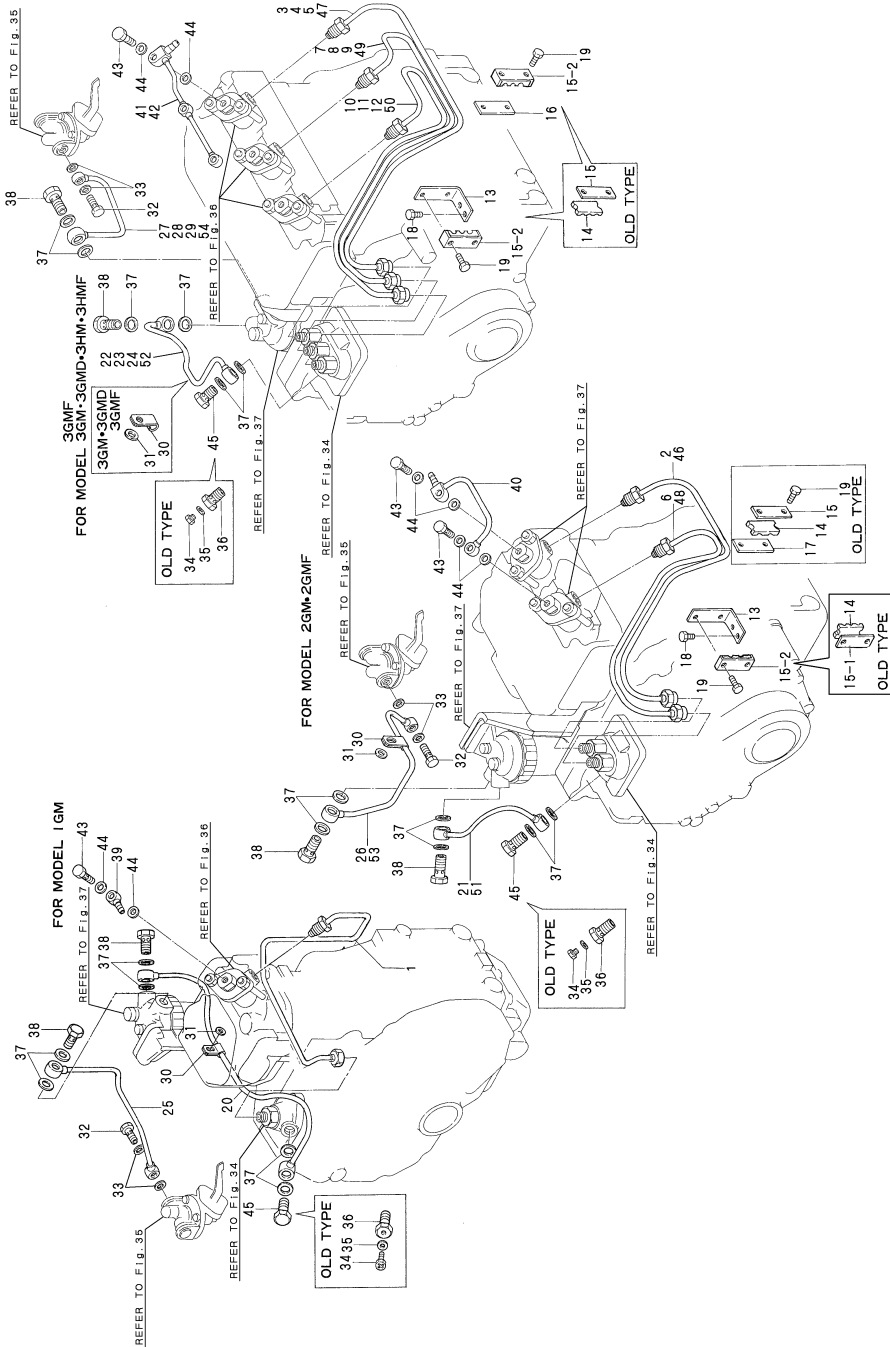
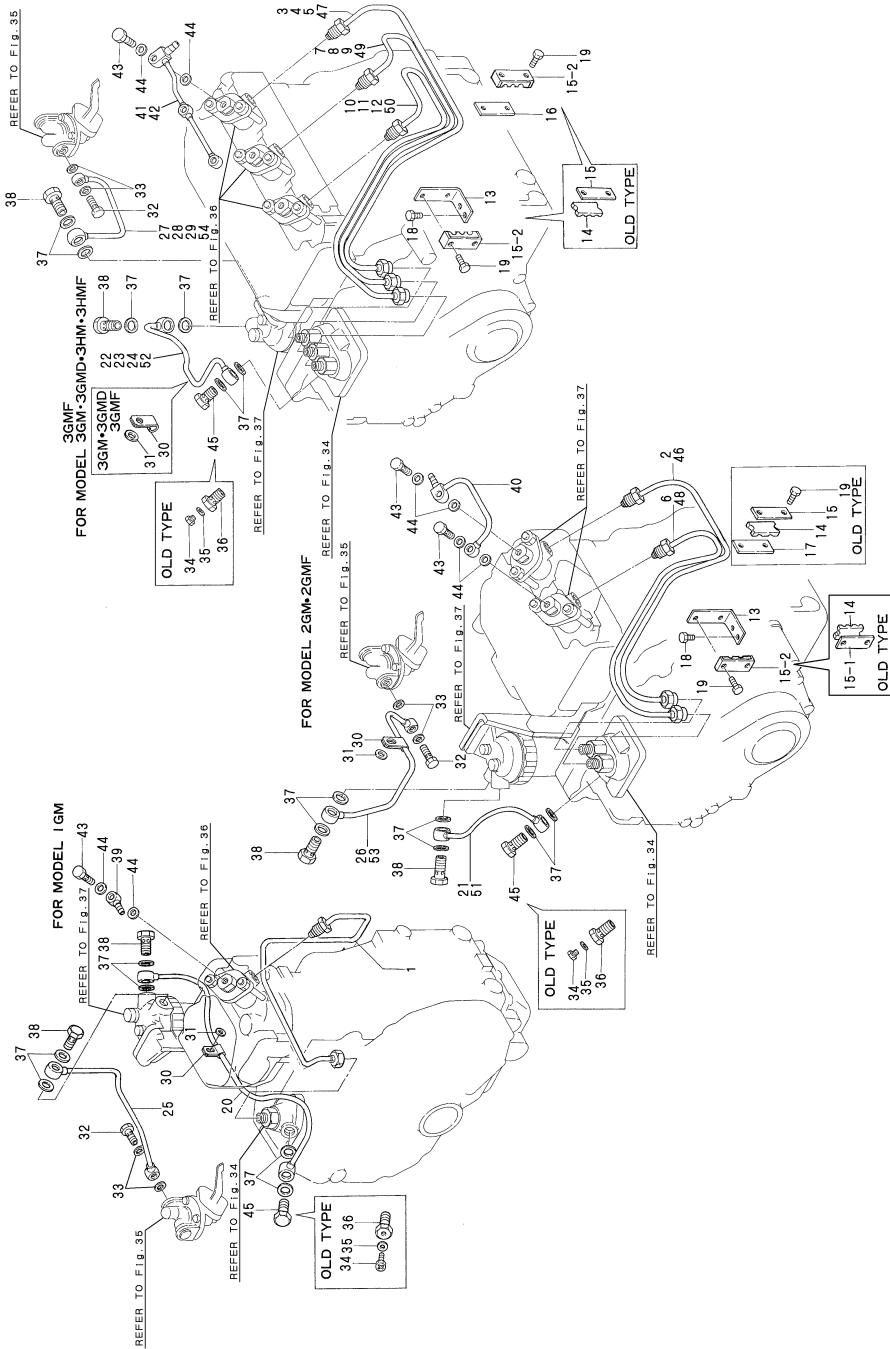


Fig.38.FUEL PIPE

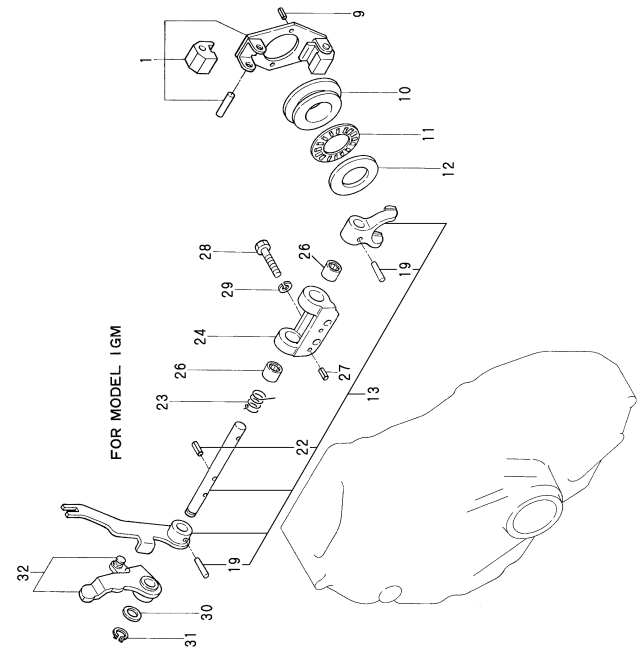
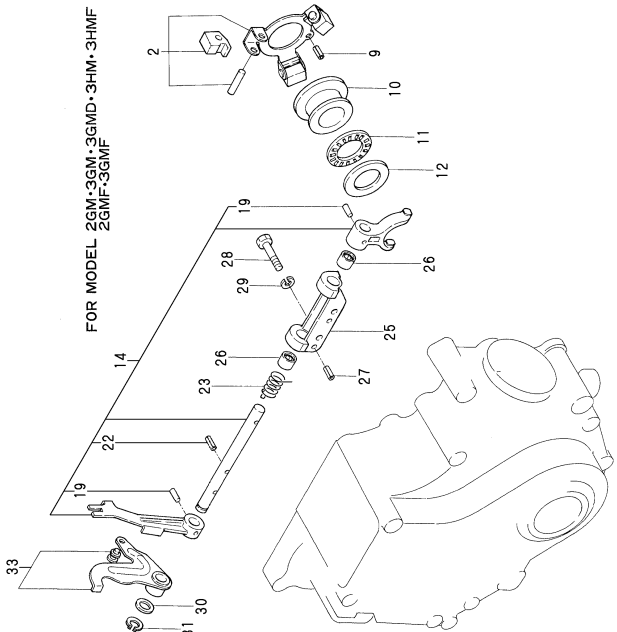


(A)=1GM
(B)=2GM(F)
(C)=3GM(F)

(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
44	1	23414-080000	GASKET 8, ROUND	2	4	6	6	6	6		
45	1	103854-59191	BOLT W/PLUG & SEAL	1	1	1	1	1	1	W	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
46	1	128290-59810	PIPE (1), F. INJECT.		1						
47	1	128390-59810	PIPE (1), F. INJECT.			1					
48	1	128290-59820	PIPE (2), F. INJECT.		1						
49	1	128390-59820	PIPE (2), F. INJECT.				1				
50	1	128390-59830	PIPE (3), F. INJECT.				1				
51	1	128290-59010	PIPE (A) ASSY, FUEL		1						
52	1	128390-59010	PIPE (A) ASSY, FUEL			1					
53	1	128290-59080	PIPE (B), FUEL		1						
54	1	128390-59080	PIPE, FUEL OIL			1					

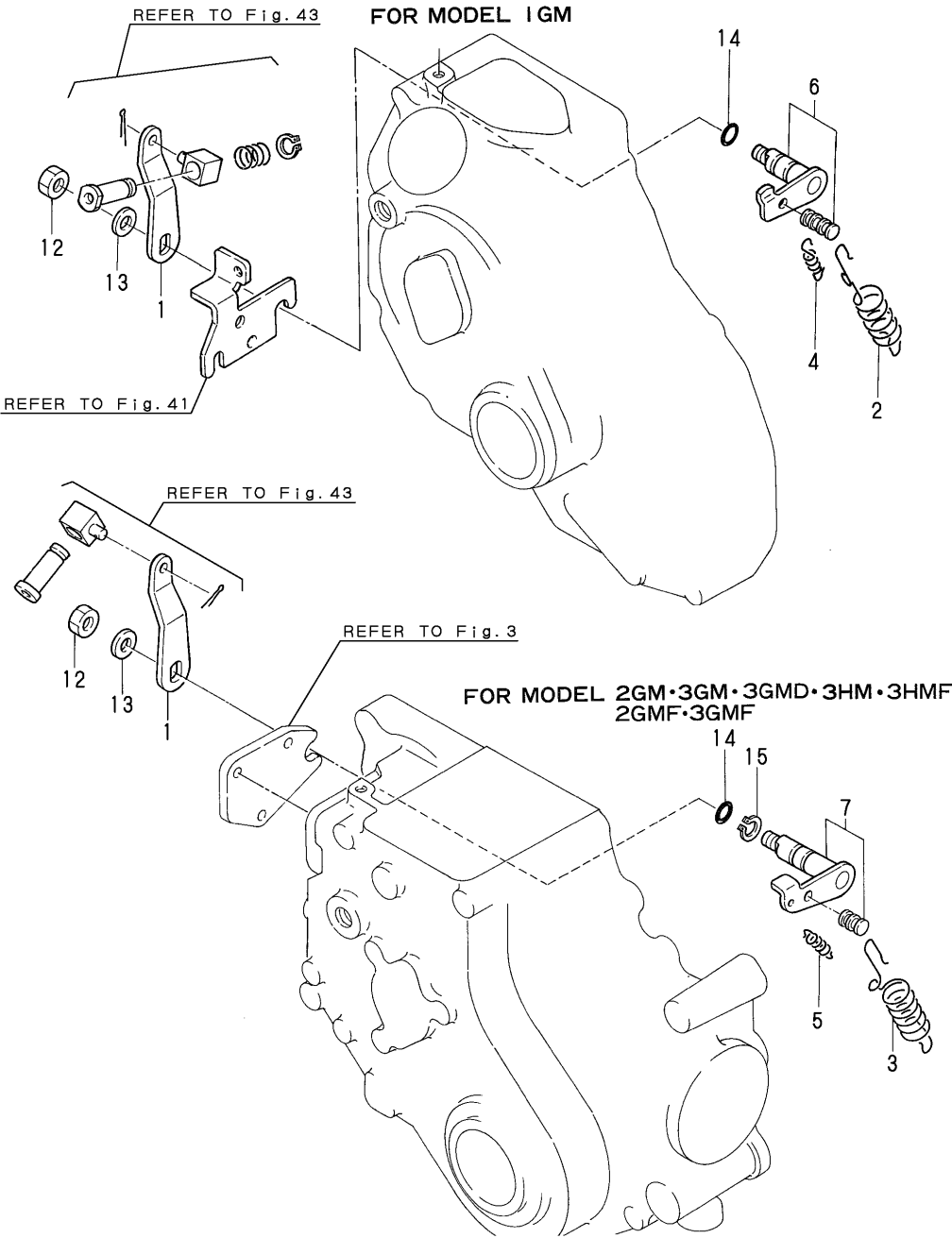
Fig.39.GOVERNOR DRIVING



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-61100	SUPPORT ASSY, GOV.	1							
2	1	721575-61520	SUPPORT ASSY, GOV.		1	1	1	1	1		
9	1	22351-040008	SPRING PIN 4X 8	2	1	1	1	1	1		
10	1	121000-61600	SLEEVE, GOVERNOR	1	1	1	1	1	1		
11	1	121575-61710	NEEDLE BEARING	1	1	1	1	1	1		
12	1	121575-61720	COLLAR, BEARING	1	1	1	1	1	1		
13	1	728170-61560	LEVER ASSY, GOV.	1							
14	1	721500-61560	LEVER ASSY, GOVERNOR		1	1	1	1	1		
19	2	22322-030200	TAPER PIN 3X20	2	2	2	2	2	2		
22	2	22351-030012	SPRING PIN 3X12	1	1	1	1	1	1		
23	1	121575-66310	SPRING, STARTING	1	1	1	1	1	1		
24	1	128170-61620	BRACKET	1							
25	1	121575-61620	SUPPORT		1	1	1	1	1		
26	1	122410-61650	BEARING, NEEDLE	2	2	2	2	2	2		
27	1	22351-040008	SPRING PIN 4X 8	2	2	2	2	2	2		
28	1	26116-060302	BOLT M 6X 30 PLATED	2	2	2	2	2	2		
29	1	22217-060000	SPRING WASHER 6	2	2	2	2	2	2		
30	1	104211-42130	SPACER	1	1	1	1	1	1		
31	1	22242-000100	CIRCLIP 10	1	1	1	1	1	1		
32	1	128170-61160	LEVER ASSY, CONTROL	1							
33	1	121575-61160	LEVER ASSY, CONTROL		1	1	1	1	1		

Fig.40.REGULATOR LINKS

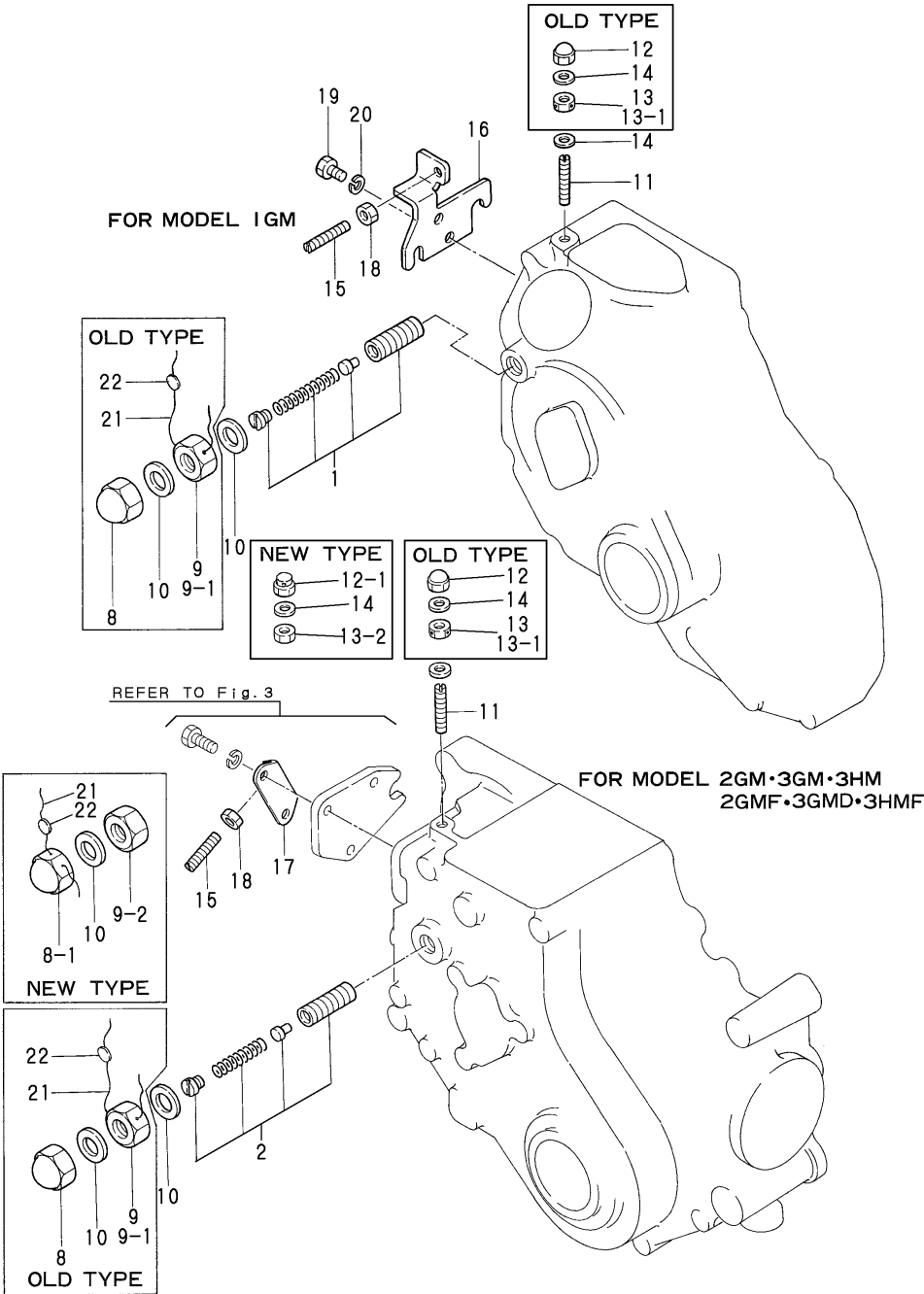


(A)=1GM
(B)=2GM(F)
(C)=3GM(F)

(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121575-66051	HANDLE, REGULATOR	1	1	1	1	1	1		
2	1	128170-66010	SPRING, REGULATOR	1							
3	1	128270-66010	SPRING, REGULATOR		1	1	1	1	1		
4	1	128170-66200	SPRING, REGULATOR	1							
5	1	128270-66200	SPRING, REGULATOR		1	1					
5-1	1	121575-66200	SPRING, REGULATOR		1	1	1	1	1	R	
		(B=E/#00019)	(C=E/#00012)								
6	1	128170-66090	LEVER ASSY, REGULAT	1							
7	1	121000-66090	LEVER ASSY, REGULAT		1	1	1	1	1		
12	1	26716-080002	NUT M 8	1	1	1	1	1	1		
13	1	22117-080000	WASHER 8	1	1	1	1	1	1		
14	1	24311-000090	O-RING 1A P-9.0	1	1	1	1	1	1		
15	1	22242-000120	CIRCLIP 12		1	1	1	1	1		

Fig.41.FUEL CONTROLLER

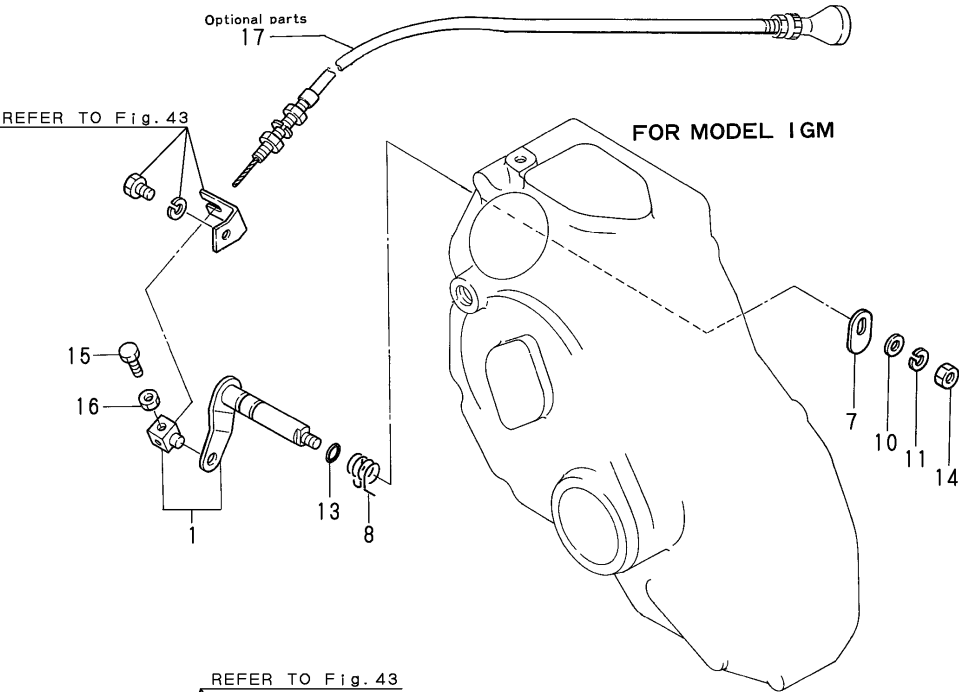


(A)=1GM
(B)=2GM(F)
(C)=3GM(F)

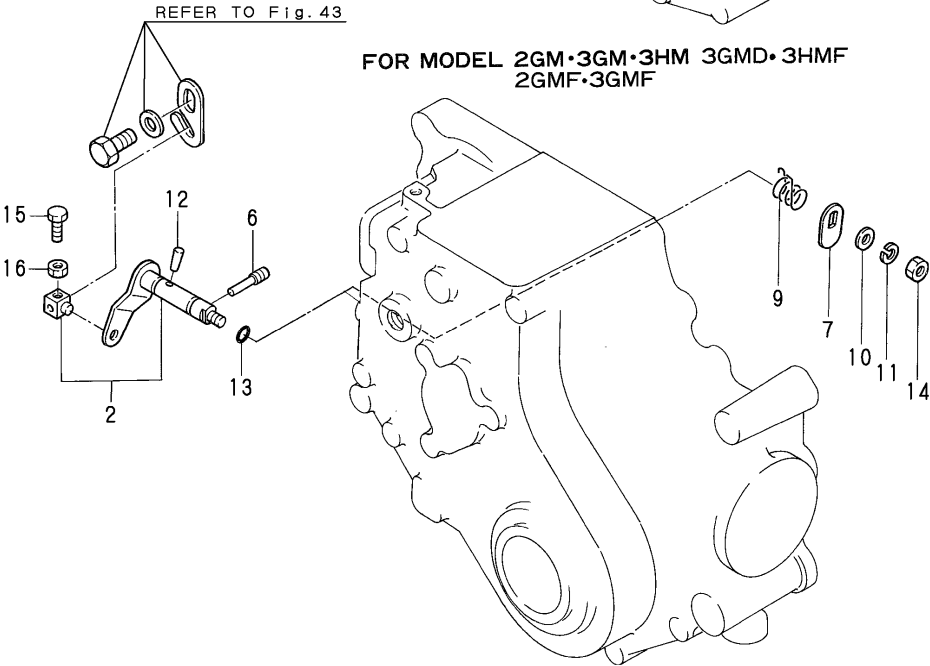
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-66550	CONTROLLER ASSY	1							
2	1	128270-66550	CONTROLLER ASSY		1	1	1	1	1		
8	1	26657-120002	CAP NUT M12	1	1	1	1	1	1		
8-1	1	128170-66880	CAP NUT M12	1	1	1	1	1	1	S	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
9	1	26756-120002	LOCK NUT 12	1	1	1	1	1	1		
9-1	1	128170-66890	LOCK NUT M12	1	1	1	1	1	1	R	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
9-2	1	26756-120002	LOCK NUT 12	1	1	1	1	1	1	S	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
10	1	43400-500450	SEAL WASHER 12S	2	2	2	2	2	2		
11	1	121575-66800	SCREW, ADJUST	1	1	1	1	1	1		
11-1	1	121575-66830	SCREW, ADJUST							1	R
					(E=*1980.10)				(F=*1980.10)		
12	1	26666-060002	CAP NUT M 6	1	1	1	1	1	1		
12-1	1	128170-66870	CAP NUT M 6	1	1	1	1	1	1	S	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
13	1	26756-060002	LOCK NUT 6	1	1	1	1	1	1		
13-1	1	124550-66370	LOCK NUT M 6	1	1	1	1	1	1	R	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
13-2	1	26756-060002	LOCK NUT 6	1	1	1	1	1	1	S	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)			(E=EXXX)				(F=EXXX)		
14	1	43400-500390	SEAL WASHER 6S	2	2	2	2	2	2		
15	1	121575-66800	SCREW, ADJUST	1	1	1	1	1	1		
16	1	128170-66850	RETAINER	1							
17	1	121575-66850	RETAINER		1	1	1	1	1		
18	1	26756-060002	LOCK NUT 6	1	1	1	1	1	1		
19	1	26116-060142	BOLT M 6X 14	2							
20	1	22217-060000	SPRING WASHER 6	2							
21	1	22451-100000	WIRE 1.0	1	1	1	1	1	1	W	
		(A=*1980.11) (B=*1980.11) (C=*1980.11) (D=*1980.11)			(E=*1980.11)				(F=*1980.11)		
22	1	135210-61090	LEAD	1	1	1	1	1	1	W	
		(A=*1980.11) (B=*1980.11) (C=*1980.11) (D=*1980.11)			(E=*1980.11)				(F=*1980.11)		

Fig.42.ENGINE STOP DEVIC



FOR MODEL 1GM



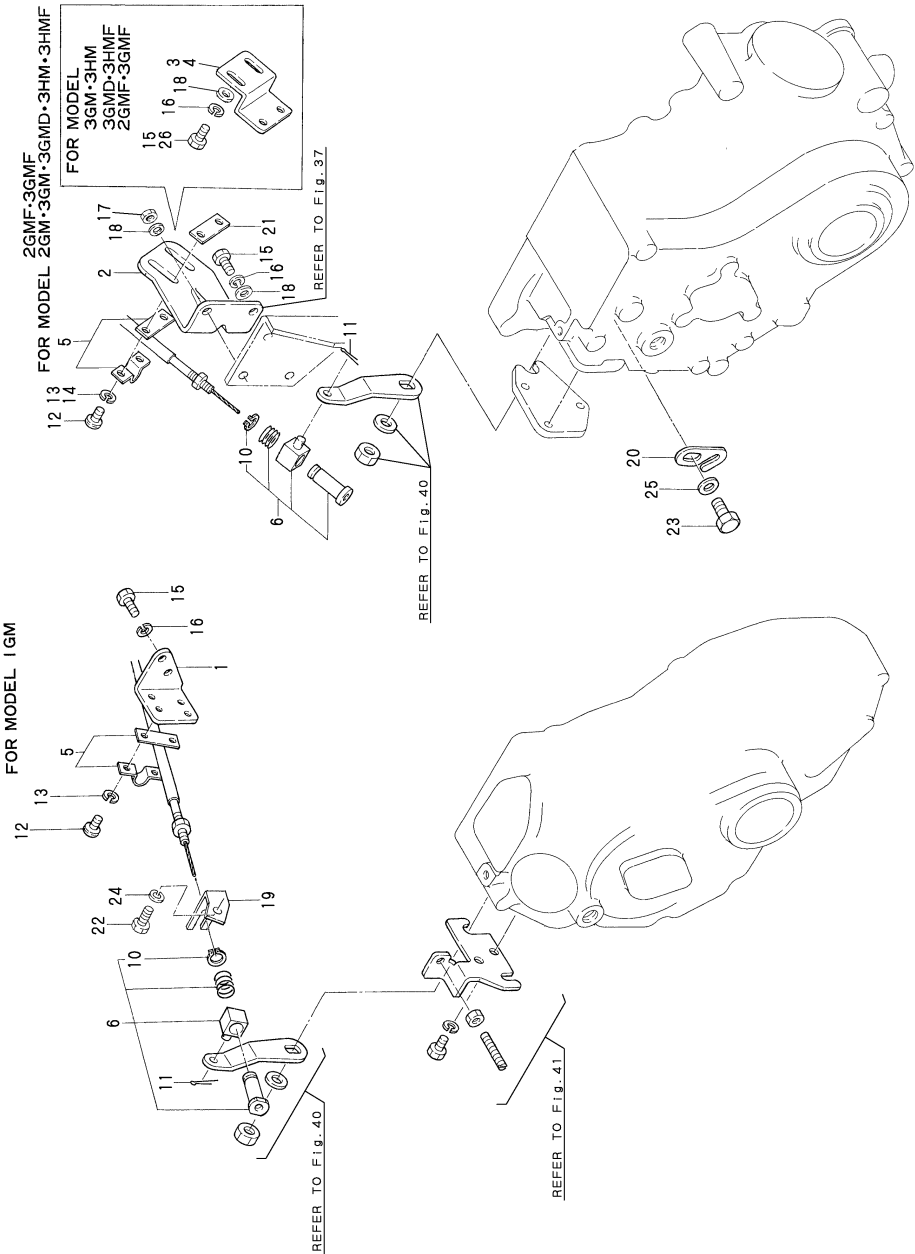
FOR MODEL 2GM•3GM•3HM 3GMD•3HMF
2GMF•3GMF

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-66510	LEVER ASSY, ENG.STOP	1							
2	1	121575-66510	LEVER ASSY, ENG,STOP		1	1	1	1	1		
6	1	124250-03640	SCREW, STOP		1	1	1	1	1		
7	1	121575-66550	CAM	1	1	1	1	1	1		
8	1	128170-66580	SPRING, RETURN	1							
9	1	121575-66580	SPRING, RETURN		1	1	1	1	1		
10	1	22117-060000	WASHER 6	1	1	1	1	1	1		
11	1	22217-060000	SPRING WASHER 6	1	1	1	1	1	1		
12	1	22322-030160	TAPER PIN 3X16		1	1	1	1	1		
13	1	24311-000070	O-RING 1A P-7.0	1	1	1	1	1	1		
14	1	26716-060002	NUT 6	1	1	1	1	1	1		
15	1	26116-050128	BOLT M 5X 12 PLATED	1	1	1	1	1	1		
16	1	26756-050002	LOCK NUT M 5 PLATED	1	1	1	1	1	1		
17	1	104271-67550	CABLE L=3000	1	1	1	1	1	1		

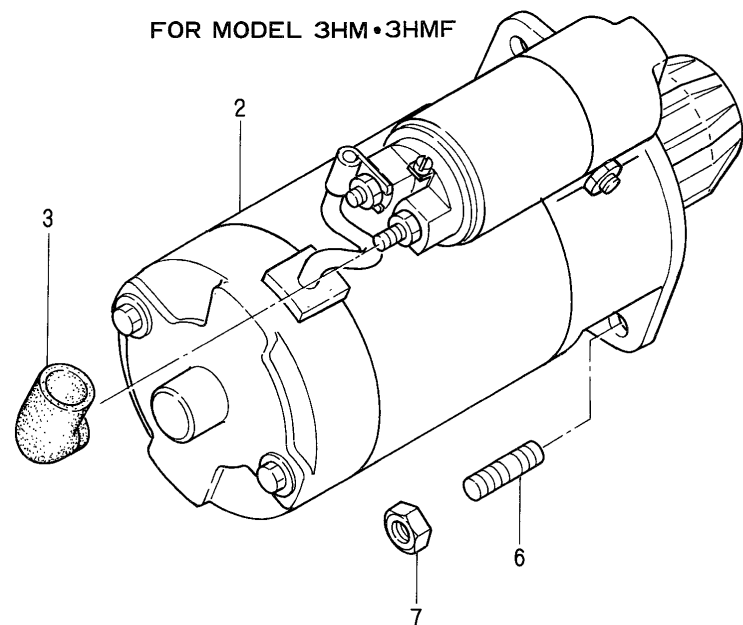
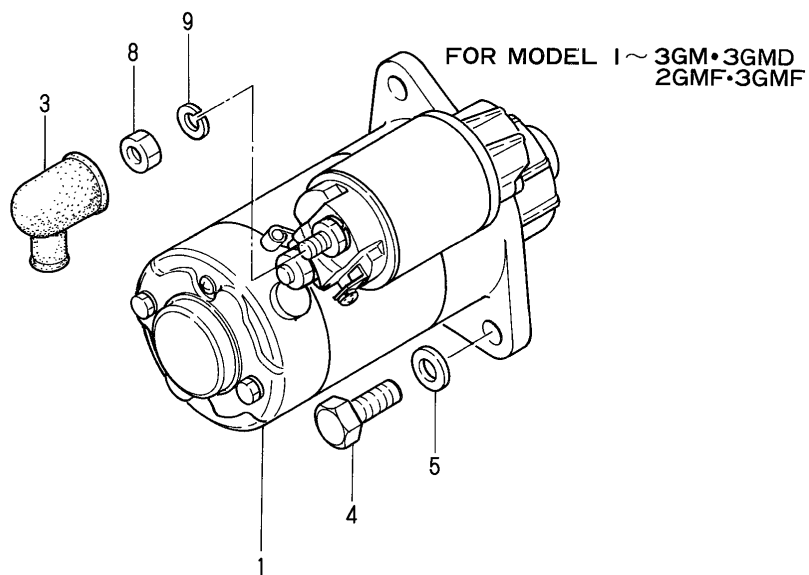
Fig.43.SPEED REMOTE CONTROL

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF



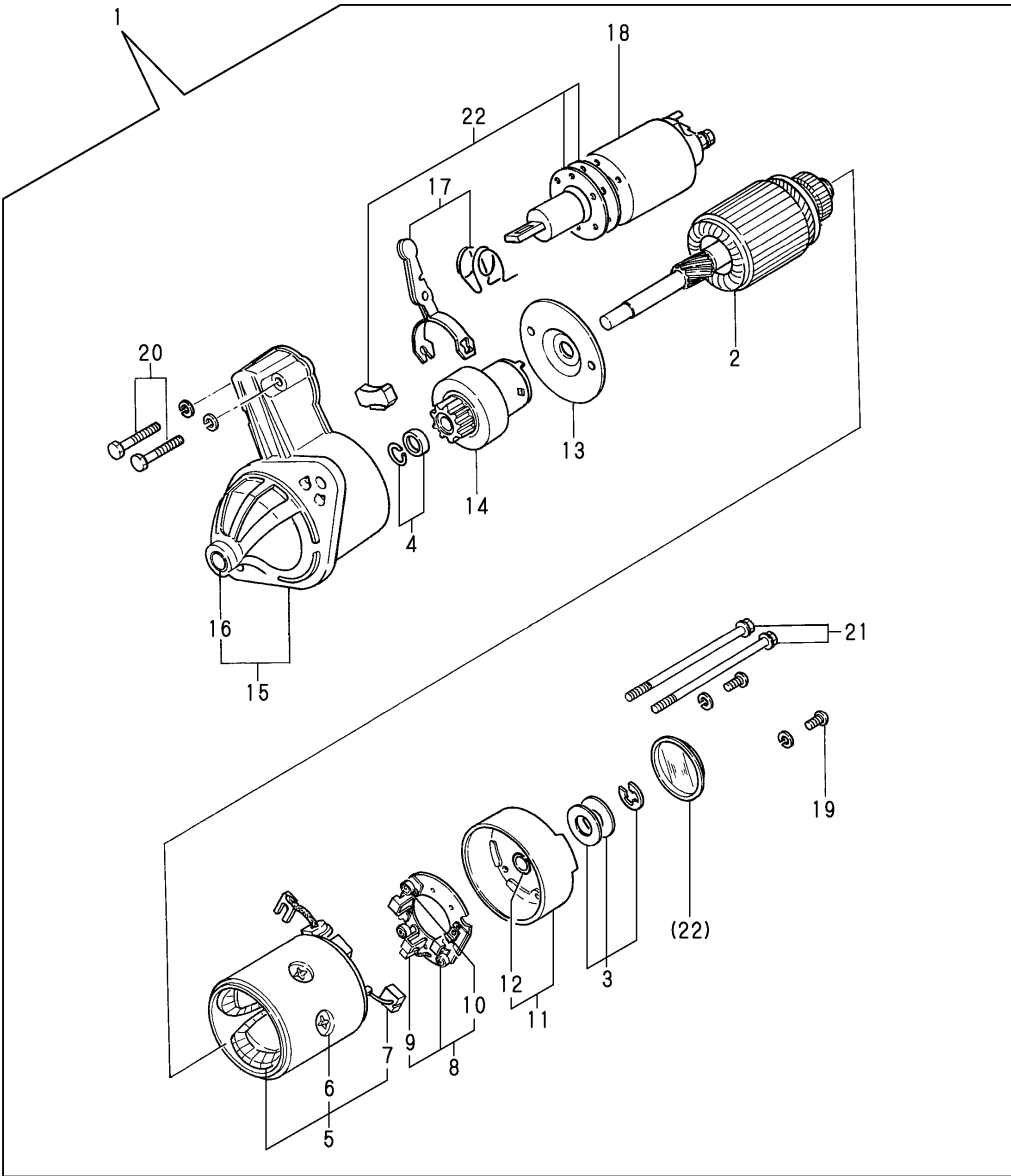
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-67100	BRACKET, CABLE	1							
2	1	128270-67100	BRACKET, CABLE		1						
3	1	105311-67100	BRACKET, CABLE		1	1	1	1			
4	1	128695-67100	BRACKET, CABLE							1	
5	1	41710-000410	CLAMP	1	1	1	1	1	1	1	
6	1	105311-67200	RETAINER, JOINT	1	1	1	1	1	1	1	
10	2	22242-000100	CIRCLIP 10	1	1	1	1	1	1	1	
11	1	22414-250150	COTTER PIN 2.5X15	1	1	1	1	1	1	1	
12	1	26557-050122	SCREW M 5X 12	2	2	2	2	2	2		
12-1	1	26557-050102	SCREW M 5X 10					2	2	R	
			(E=EXXX)								
13	1	22217-050000	SPRING WASHER 5	2				2	2		
14	1	22217-050000 (B=EXXX)	SPRING WASHER 5 (C=EXXX)		2	2					Z
15	1	26116-060142	BOLT M 6X 14	2	1	2		2	2		
15-1	1	26116-060122 (B=EXXX)	BOLT 6X12 (C=EXXX)		1	2	2				R
16	1	22217-060000	SPRING WASHER 6	2	2	2	2	2	2		
17	1	26716-060002	NUT 6		1						
18	1	22137-060000	WASHER 6, POLISHED		2	2	2	2	2		
19	1	128170-67580	BRACKET, CABLE	1							
20	1	121575-67580	BRACKET, CABLE		1	1	1	1	1	1	
21	1	121574-86320	RETAINER		1						
22	1	26116-060102	BOLT M 6X 10 PLATED	1							
23	1	26116-080142	BOLT 8X14		1	1	1	1	1	1	
24	1	22217-060000	SPRING WASHER 6	1							
25	1	22137-080000	WASHER 8, POLISHED		1	1	1	1	1	1	
26	1	26116-060122	BOLT 6X12		2						1

Remarks
(1)2GMF



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	128170-77010	STARTER	1	1	1	1			
2	1	121370-77020	STARTER					1	1	
3	1	124550-77030	COVER, TERMINAL	1	1	1	1	1	1	
4	1	26116-100302	BOLT 10X30	2	2	2	2			
5	1	22117-100000	WASHER 10	2	2	2	2			
6	1	26226-120252	STUD M12X 25 PLATED					2	2	
7	1	26716-120002	NUT 12					2	2	
8	1	26716-080002	NUT M 8	1	1	1	1			
8-1	1	26756-080002	LOCK NUT M 8 PLATED	1	1	1	1			R
9	1	22217-080000	SPRING WASHER 8	1	1	1	1			

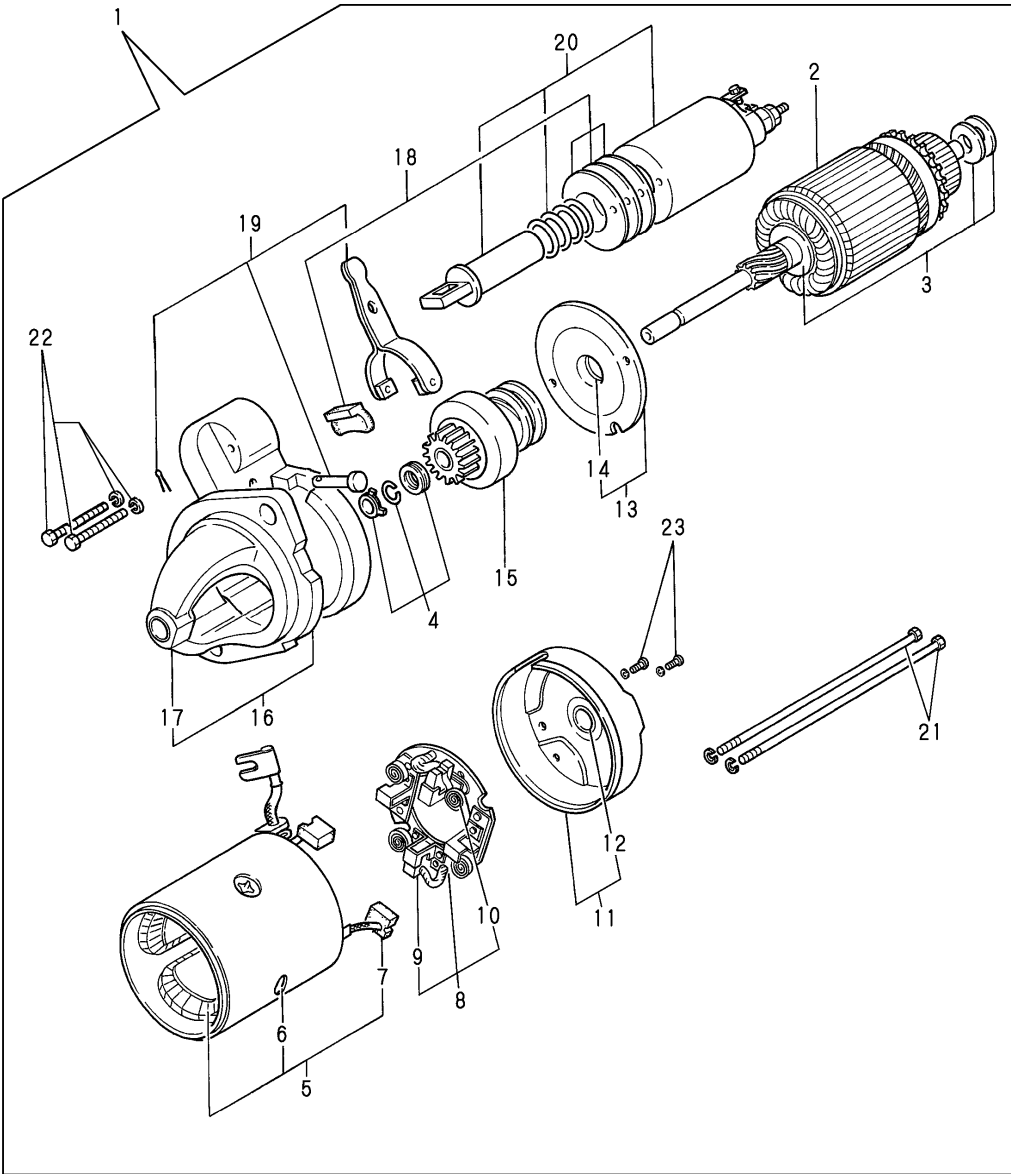
Fig.45.STARTING MOTOR COMPONENT PART(12V/1.0KW)



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-77010	STARTER	1	1	1	1				
2	2	X211451005	ARMATURE	1	1	1	1				
3	2	X21148110	WASHER SET, THRUST	1	1	1	1				
4	2	X21147155	STOPPER SET, PINION	1	1	1	1				
5	2	X211462101	COIL ASSY, FIELD	1	1	1	1				
6	3	X21143215	SCREW, CORE	4	4	4	4				
7	3	X21145312	BRUSH (+)	2	2	2	2				
8	2	X211433101	HOLDER	1	1	1	1				
9	3	X21148313	BRUSH (-)	1	1	1	1				
10	3	X21145314	SPRING	3	3	3	3				
11	2	X211413005	COVER ASSY	1	1	1	1				
12	3	X21145352	METAL	1	1	1	1				
13	2	X21144454	PLATE	1	1	1	1				
14	2	X211415006	PINION ASSY	1	1	1	1				
15	2	X211476503	CASE ASSY	1	1	1	1				
16	3	X21144661	METAL, GEAR CASE	1	1	1	1				
17	2	X21149652	LEVER SET, SHIFT	1	1	1	1				
18	2	X211447009	SWITCH	1	1	1	1				
19	2	26031-040122	SCREW M4X12	2	2	2	2				
20	2	26013-060322	BOLT M 6X 32	2	2	2	2				
21	2	X21148852	BOLT, THROUGH	2	2	2	2				
22	2	X21146963	COVER	1	1	1	1				

Fig.46.STARTING MOTOR COMPONENT PART(12V/1.8KW)

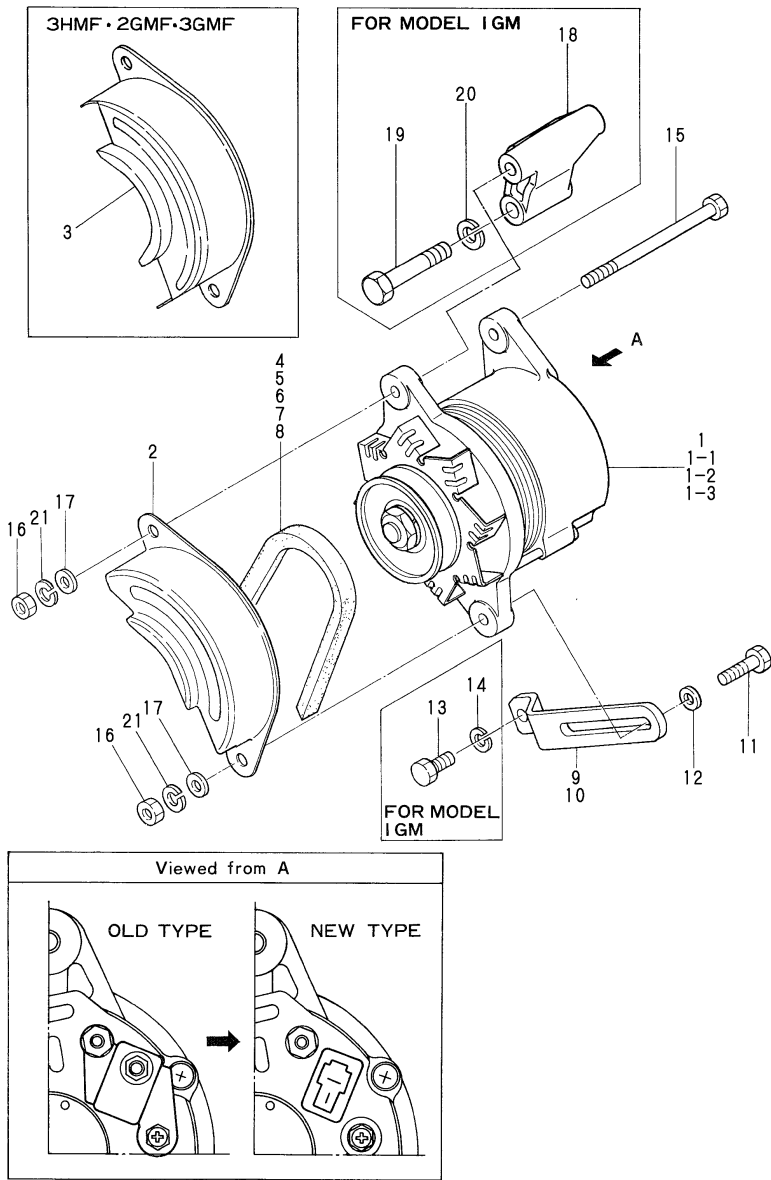


(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-77020	STARTER					1	1		
2	2	X21207100	ARMATURE ASSY					1	1		
3	2	X21201115	WASHER SET, THRUST					1	1		
4	2	X21201110	STOPPER SET					1	1		
5	2	X21204259	COIL ASSY					1	1		
6	3	X21142215	SCREW					4	4		
7	3	X21209311	BRUSH (+)					2	2		
8	2	X21205310	HOLDER ASSY, BRUSH					1	1		
9	3	X21207312	BRUSH					2	2		
10	3	X21201313	SPRING, BRUSH					4	4		
11	2	X22501300	COVER ASSY,REAR					1	1		
12	3	X21204302	METAL, COVER BEARING					1	1		
13	2	X21205400	BEARING ASSY					1	1		
14	3	X21204401	METAL, CENTER BERG.					1	1		
15	2	X212045001	PINION ASSY					1	1		
16	2	X21205650	CASE ASSY,GEAR					1	1		
17	3	X21202601	METAL, GEAR CASE					1	1		
18	2	X21202602	COVER SET					1	1		
19	2	X21201605	LEVER SET					1	1		
20	2	X212077002	SWITCH ASSY, MAGNET.					1	1		
21	2	X21204810	BOLT, THROUGH					2	2		
22	2	X21145866	BOLT					2	2		
23	2	26557-040122	SCREW M 4X 12,PAN HD					2	2		
23-1	2	26013-040122	SCREW					2	2	N	

(E=EXXX) (F=EXXX)

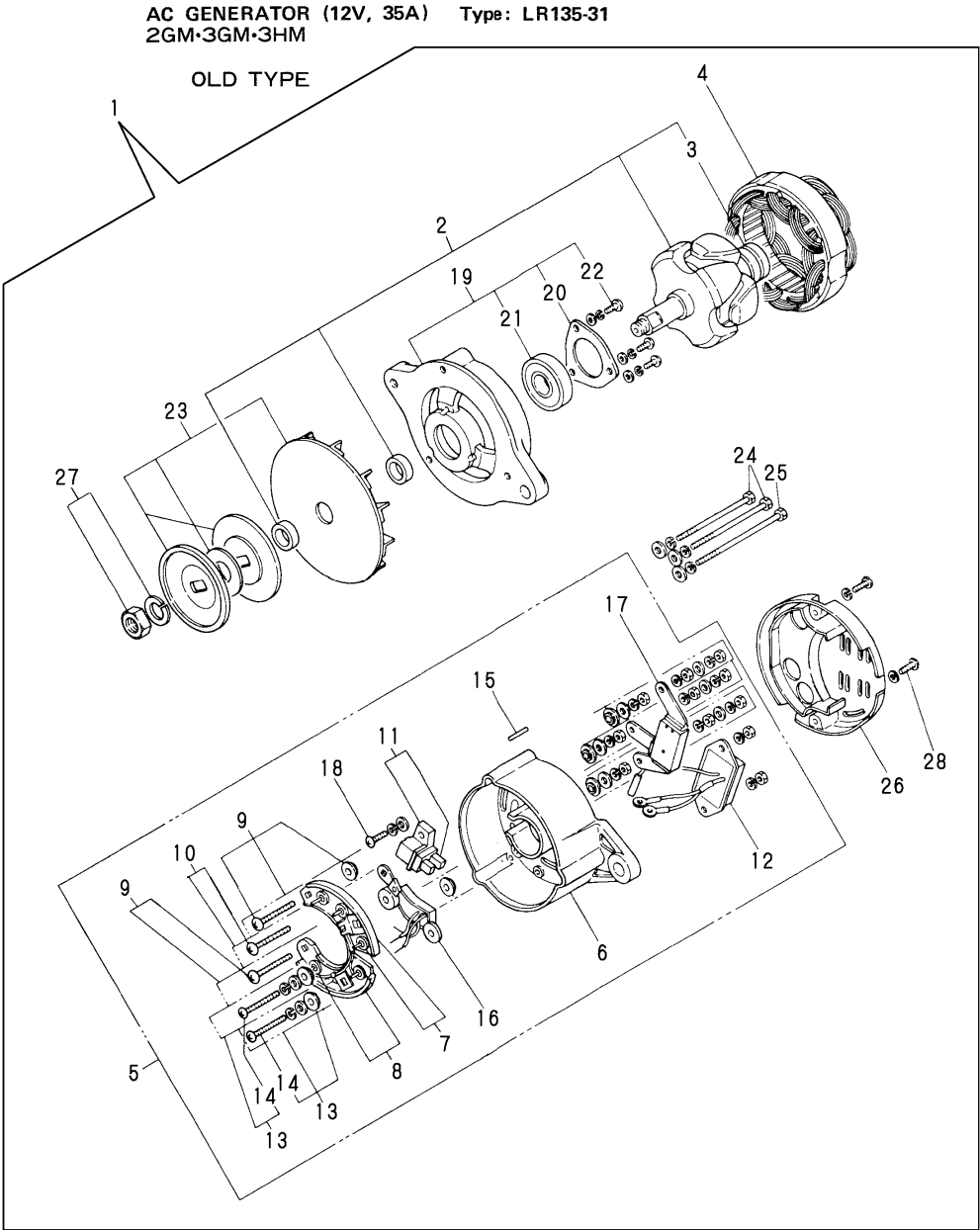
Fig.47.GENERATOR(AC)



Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH FIG.NO.52
REF.NO.3-1.
(2)2GMF,3GMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-77200	GENERATOR		1	1		1			
1-1	1	128170-77200 (B=EXXX)	GENERATOR (C=EXXX)	1	1	1	1	1	1	1	R
1-2	1	128170-77201 (A=E/#03427) (B=E/#04805)	GENERATOR (C=E/#02710) (D=*1982.01)	1	1	1	1	1	1	1	N
1-3	1	128270-77200 (A=EXXX) (B=EXXX)	GENERATOR(12V-35A) (C=EXXX) (D=EXXX)	1	1	1	1	1	1	1	F 1
2	1	121250-77210	COVER, GENERATOR	1	1	1	1	1			
3	1	128695-77210	COVER, GENERATOR		1	1				1	
4	1	128170-77350	V-BELT (HM-29)	1							
5	1	25132-003000	V-BELT		1	1	1				
6	1	128670-77350	V-BELT (A-31)					1			
7	1	128695-44780	V-BELT							1	
8	1	121150-42290	V-BELT		1	1					2
9	1	124465-77330	ADJUSTER, BELT	1							
10	1	124790-77330	ADJUSTER, BELT		1	1	1	1	1	1	
11	1	26116-080302	BOLT 8X30	1	1	1	1	1	1	1	
11-1	1	26116-080322	BOLT M 8X 32 PLATED					1			R
12	1	22137-080000	WASHER 8, POLISHED	1	1	1	1	1	1		
13	1	26116-080202	BOLT M 8X 20 PLATED	1							
14	1	22217-080000	SPRING WASHER 8	1							
15	1	26116-081202	BOLT M 8X120 PLATED	1	1	1	1	1	1		
16	1	26716-080002	NUT M 8	2	2	2	2	2	2		
17	1	22137-080000	WASHER 8, POLISHED	2	2	2	2	2	2		
17-1	1	22117-080000 (A=EXXX) (B=EXXX)	WASHER 8 (C=EXXX)	2	2	2	2	2	2	2	R
18	1	128170-77250	BRACKET, GENERATOR	1							
19	1	26116-100602	BOLT M10X 60 PLATED	2							
20	1	22217-100000	SPRING WASHER 10	2							
21	1	22217-080000	SPRING WASHER 8					2			

Fig.48.GENERATOR COMPONENT PART(121370-77200)

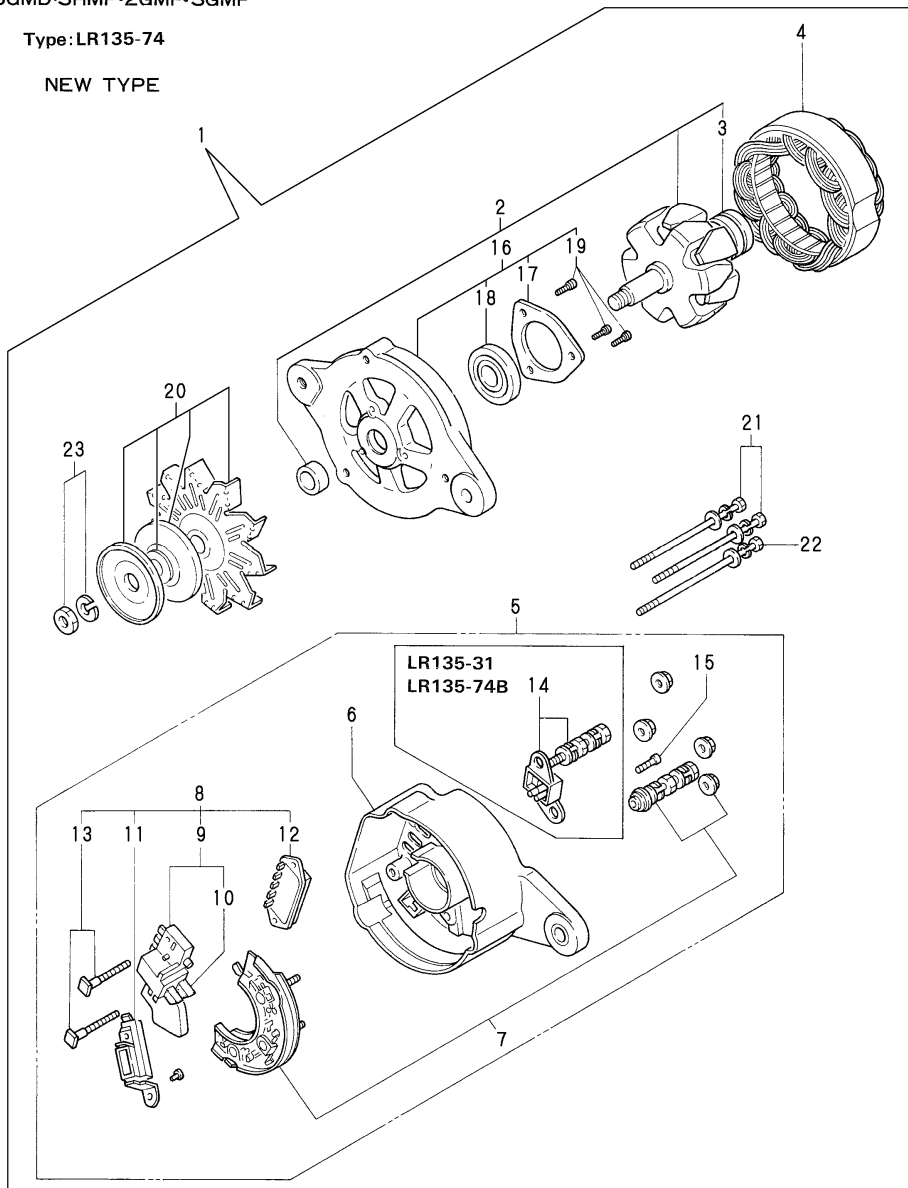


Remarks
(1)INC.NO.14

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-77200	GENERATOR		1	1		1			
2	2	XLR135Y110	ROTOR ASSY		1	1		1			
3	3	X6201SD	BEARING		1	1		1			
4	2	XL135Y1200	STATOR ASSY		1	1		1			
5	2	XL135Y1300	COVER ASSY, REAR		1	1		1			
6	3	XL135Y13001	COVER, REAR		1	1		1			
7	3	XL135Y1302	SR HOLDER (+)		1	1		1			
8	3	XL135Y1303	SR HOLDER (-)		1	1		1			
9	3	XL135Y1310	TERMINAL ASSY		2	2		2			
10	3	XL135Y1311	TERMINAL ASSY		1	1		1			
11	4	XL135Y1320	HOLDER ASSY, BRUSH		1	1		1			
12	4	XTR1Z28	IC REGULATOR		1	1		1			
13	4	XL135Y1803	SCREW SET		2	2		2			1
14	4	26557-050362	SCREW M 5X 36		2	2		2			
15	3	XL135Y1810	LOCK, BEARING		1	1		1			
16	3	XMV11305	CONTROL UNIT, FIELD		1	1		1			
17	3	XMV11306	CR ASSY		1	1		1			
18	3	26557-050162	SCREW M 5X 16		1	1		1			
19	2	XL135Y1400	COVER ASSY, FRONT		1	1		1			
20	3	XL135Y1401	RETAINER, BEARING		1	1		1			
21	3	X6302BM	BALL BEARING		1	1		1			
22	3	26557-040122	SCREW M 4X 12,PAN HD		3	3		3			
23	2	XL135Y1531	PULLEY ASSY		1	1		1			
24	2	XL135Y1801	BOLT, THROUGH		2	2		2			
25	2	XL135Y1802	BOLT, THROUGH		1	1		1			
26	2	XL135Y1820	COVER		1	1		1			
27	2	XB444001A	NUT SET, PULLEY		1	1		1			
28	2	26557-050102	SCREW M 5X 10		1	1		1			

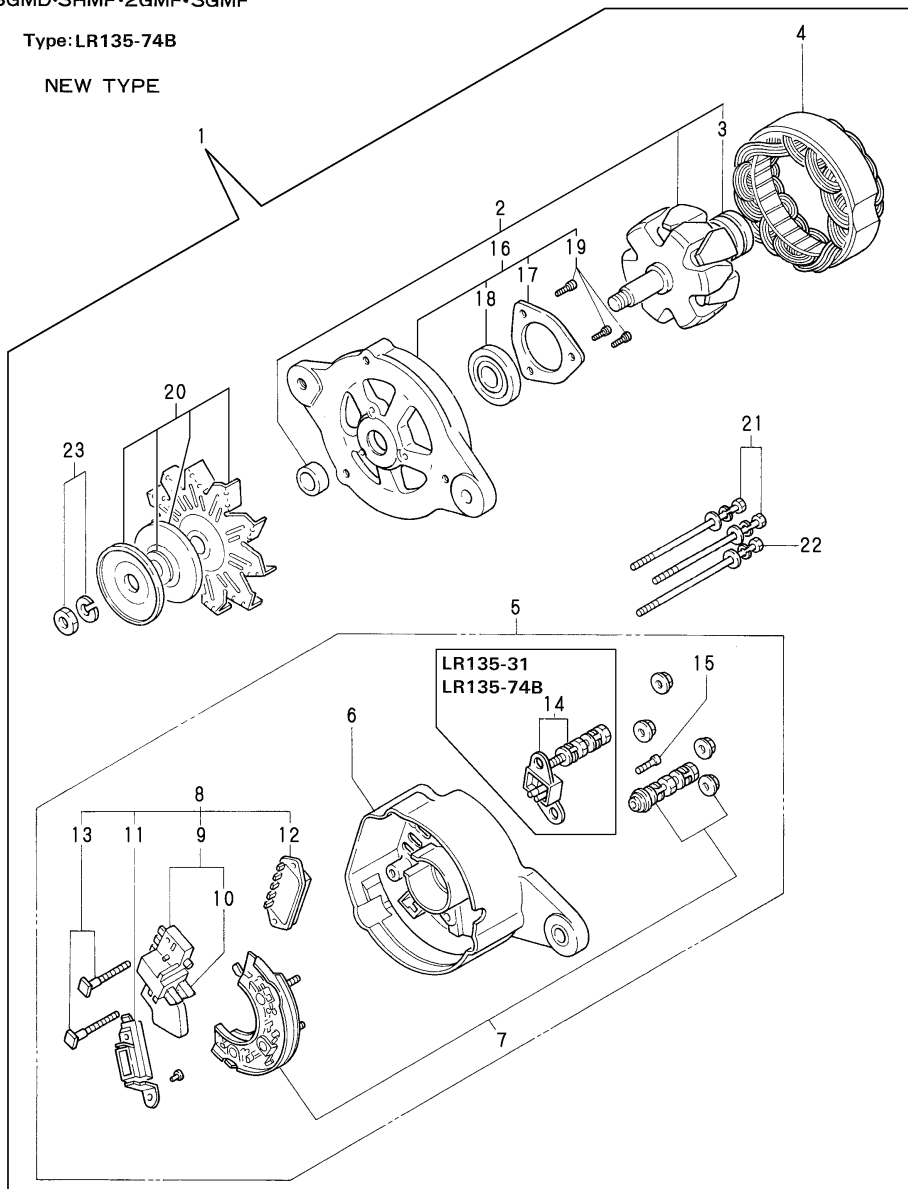
NEW TYPE



Remarks
(1)INC.NO.10

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-77200	GENERATOR	1	1	1	1	1	1		
2	2	XL13561001	ROTOR ASSY	1	1	1	1	1	1		
3	3	X6201SD	BEARING	1	1	1	1	1	1		
4	2	XL1356200	STATER ASSY	1	1	1	1	1	1		
5	2	XL13523001	COVER ASSY, REAR	1	1	1	1	1	1		
6	3	XL1358301	COVER	1	1	1	1	1	1		
7	3	XL1353320	DIODE ASSY	1	1	1	1	1	1		
8	3	XL13533151	BRUSH W/REGURATOR	1	1	1	1	1	1		
9	4	XL1208326	BRUSH ASSY	1	1	1	1	1	1		1
10	4	XL12013262	BRUSH	2	2	2	2	2	2		
11	4	XL1351318	CONDENSER	1	1	1	1	1	1		
12	4	XTR1Z49	IC REGULATOR	1	1	1	1	1	1		
13	4	XL13513134	BOLT M5	2	2	2	2	2	2		
14	3	XL1202310	BOLT ASSY, TERMINAL	1	1	1	1	1	1		
15	3	26557-050142	SCREW M 5X 14	1	1	1	1	1	1		
16	2	XL1359400	COVER ASSY, FRONT	1	1	1	1	1	1		
17	3	XL13514042	RETAINER	1	1	1	1	1	1		
18	3	X6302BM	BALL BEARING	1	1	1	1	1	1		
19	3	26557-040122	SCREW M 4X 12,PAN HD	3	3	3	3	3	3		
20	2	XL13525001	PULLEY ASSY	1	1	1	1	1	1		
21	2	XL1254801	BOLT, THROUGH	2	2	2	2	2	2		
22	2	XL1255801	BOLT, THROUGH	1	1	1	1	1	1		
23	2	XB495469B	NUT ASSY, PULLEY	1	1	1	1	1	1		

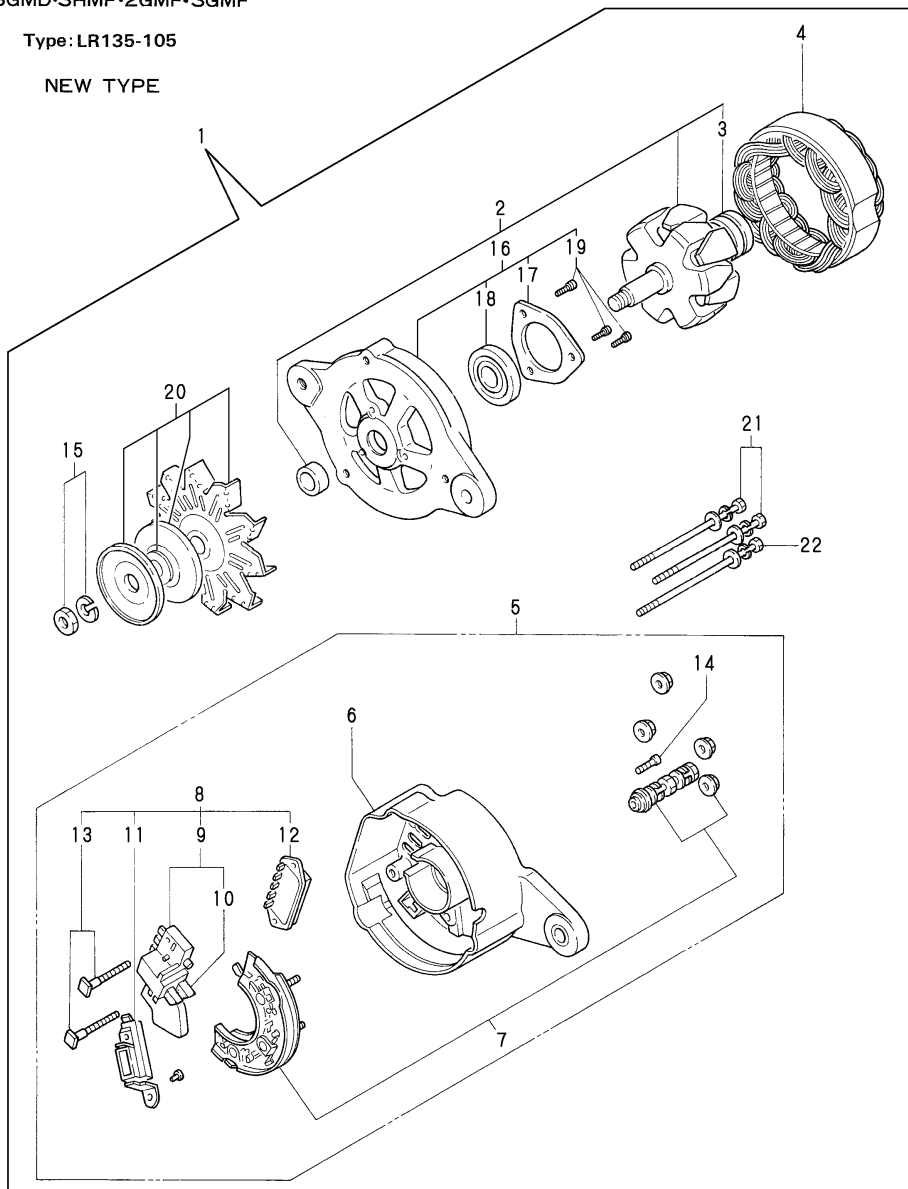
NEW TYPE



Remarks
(1)INC.NO.10

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-77201	GENERATOR	1	1	1	1	1	1		
2	2	XL13561001	ROTOR ASSY	1	1	1	1	1	1		
3	3	X6201SD	BEARING	1	1	1	1	1	1		
4	2	XL1356200	STATER ASSY	1	1	1	1	1	1		
5	2	XL13513003	REAR COVER ASSY	1	1	1	1	1	1		
6	3	XL1358301	COVER	1	1	1	1	1	1		
7	3	XL1353320	DIODE ASSY	1	1	1	1	1	1		
8	3	XL13533152	REGULATOR ASSY	1	1	1	1	1	1		
9	4	XL1354326	BRUSH, CARBON	1	1	1	1	1	1		1
10	4	XL12013262	BRUSH	2	2	2	2	2	2		
11	4	XL1351318	CONDENSER	1	1	1	1	1	1		
12	4	XTR1Z69	REGULATOR	1	1	1	1	1	1		
13	4	XL13513134	BOLT M5	2	2	2	2	2	2		
14	3	XL1203310	BOLT	1	1	1	1	1	1		
15	3	26557-050142	SCREW M 5X 14	1	1	1	1	1	1		
16	2	XL1359400	COVER ASSY, FRONT	1	1	1	1	1	1		
17	3	XL13514042	RETAINER	1	1	1	1	1	1		
18	3	X6302BM	BALL BEARING	1	1	1	1	1	1		
19	3	26557-040122	SCREW M 4X 12,PAN HD	3	3	3	3	3	3		
20	2	XL13525001	PULLEY ASSY	1	1	1	1	1	1		
21	2	XL1254801	BOLT, THROUGH	2	2	2	2	2	2		
22	2	XL1255801	BOLT, THROUGH	1	1	1	1	1	1		
23	2	XB495469B	NUT ASSY, PULLEY	1	1	1	1	1	1		

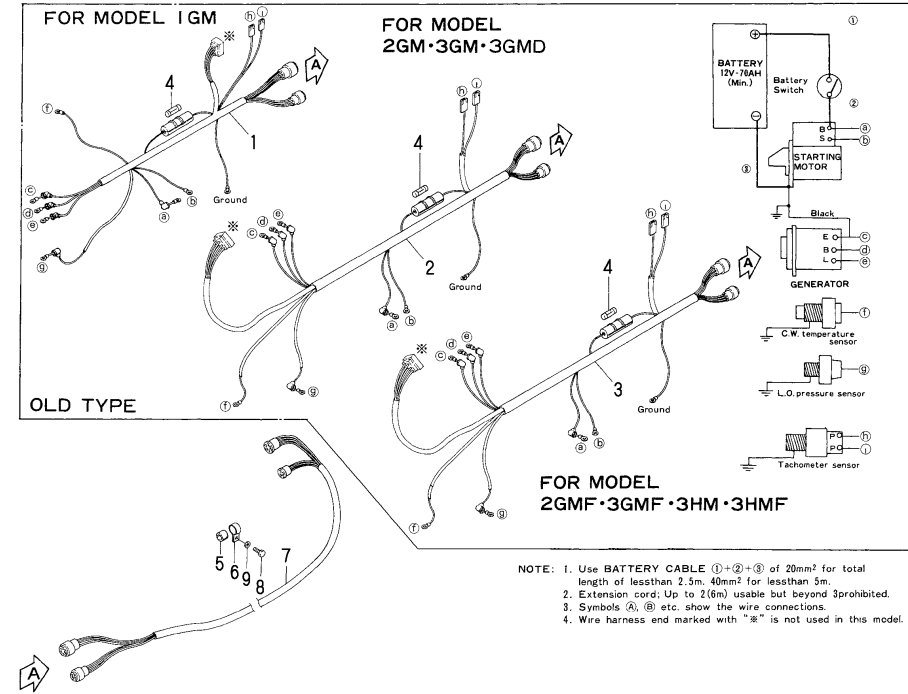
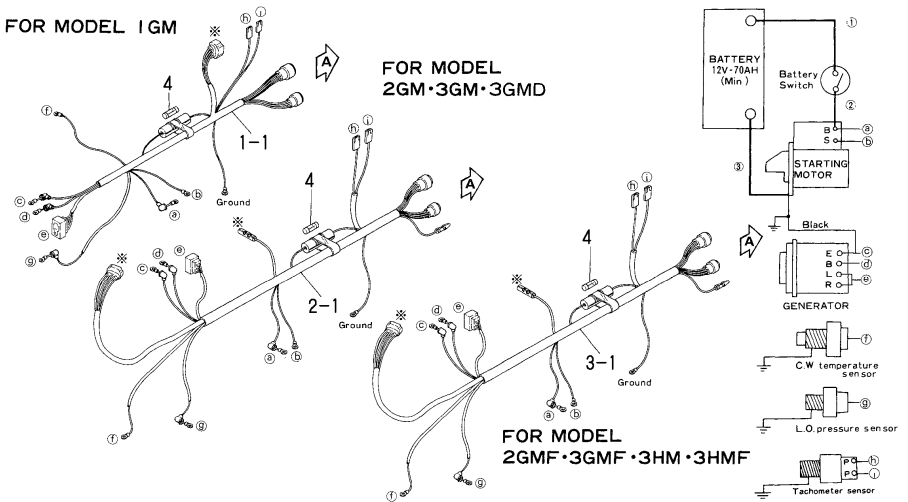
NEW TYPE



Remarks
(1)INC.NO.10

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	128270-77200	GENERATOR(12V-35A)	1	1	1	1	1	1	
2	2	XL13561001	ROTOR ASSY	1	1	1	1	1	1	
3	3	X6201SD	BEARING	1	1	1	1	1	1	
4	2	XL13542001	STATER ASSY	1	1	1	1	1	1	
5	2	XL13523003	COVER ASSY, REAR	1	1	1	1	1	1	
6	3	XL1358301	COVER	1	1	1	1	1	1	
7	3	XL1353320	DIODE ASSY	1	1	1	1	1	1	
8	3	XL13513152	BRUSH REGULATOR(W/CO	1	1	1	1	1	1	
9	4	XL1354326	BRUSH, CARBON	1	1	1	1	1	1	1
10	4	XL12013262	BRUSH	2	2	2	2	2	2	
11	4	XL1352318	CONDENSER ASSY	1	1	1	1	1	1	
12	4	XTR1Z63	REGULATOR	1	1	1	1	1	1	
13	4	XL13513134	BOLT M5	2	2	2	2	2	2	
14	3	26557-050142	SCREW M 5X 14	1	1	1	1	1	1	
15	2	XB495469B	NUT ASSY, PULLEY	1	1	1	1	1	1	
16	2	XL1359400	COVER ASSY, FRONT	1	1	1	1	1	1	
17	3	XL13514042	RETAINER	1	1	1	1	1	1	
18	3	X6302BM	BALL BEARING	1	1	1	1	1	1	
19	3	26557-040122	SCREW M 4X 12,PAN HD	3	3	3	3	3	3	
20	2	XL13525001	PULLEY ASSY	1	1	1	1	1	1	
21	2	XL1254801	BOLT, THROUGH	2	2	2	2	2	2	
22	2	XL1255801	BOLT, THROUGH	1	1	1	1	1	1	

Fig.52.WIRE HARNESS



NOTE: 1. Use BATTERY CABLE ①+②+③ of 20mm² for total length of less than 2.3m, 40mm² for less than 5m.
2. Extension cord: Up to 2(6m) usable but beyond 3prohibited.
3. Symbols (A), (B) etc. show the wire connections.
4. Wire harness end marked with "※" is not used in this model.

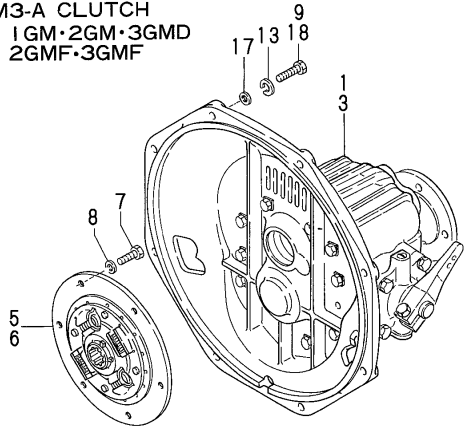
(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-77920	HARNESS, WIRE	1							
1-1	1	128170-77921	HARNESS, WIRE	1						F	1
(A=E/#03428)											
2	1	128270-77920	HARNESS, WIRE		1	1	1				
2-1	1	128270-77921	HARNESS, WIRE		1	1	1			F	1
(B=E/#04806) (C=E/#02710)											
3	1	128670-77920	HARNESS, WIRE		1	1		1	1		
3-1	1	128270-77921	HARNESS, WIRE		1	1		1	1	F	1
(B=*1982.01) (C=*1982.01) (E=*1982.01) (F=*1982.01)											
4	1	46150-003680	FUSE 30A	1	1	1	1	1	1		
5	1	124770-77940	PROTECTOR	1	1	1	1	1	1		
6	1	124070-77950	CLAMP	1	1	1	1	1	1		
7	1	128170-77500	HARNESS, WIRE	1	1	1	1	1	1		
8	1	26116-080162	BOLT 8X16	1	1	1	1	1	1		
9	1	22117-080000	WASHER 8	1	1	1	1	1	1		

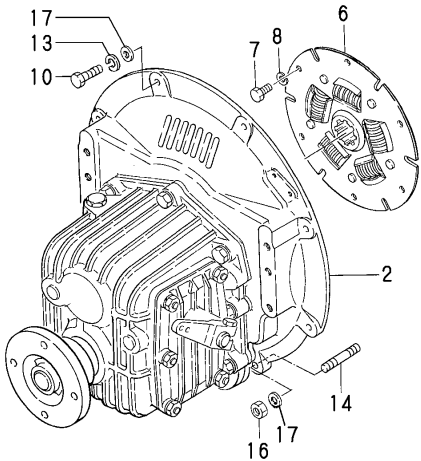
Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH FIG.NO.47
REF.NO.1-3.

Fig.53.CLUTCH

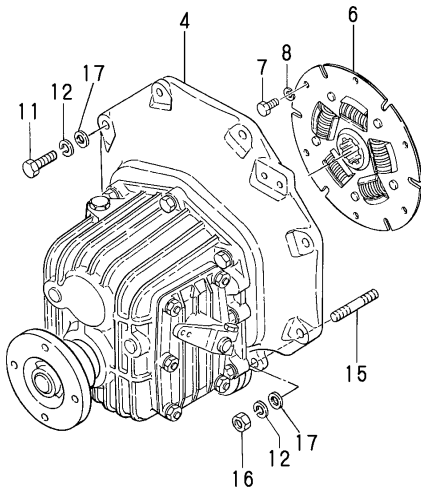
FOR MODEL
KM2-A & KM3-A CLUTCH
ENG. MODEL 1GM•2GM•3GMD
2GMF•3GMF



FOR MODEL
KBW10-D CLUTCH
ENG. MODEL 3GM



FOR MODEL
KBW10-E CLUTCH
ENG. MODEL 3HM•3HMF

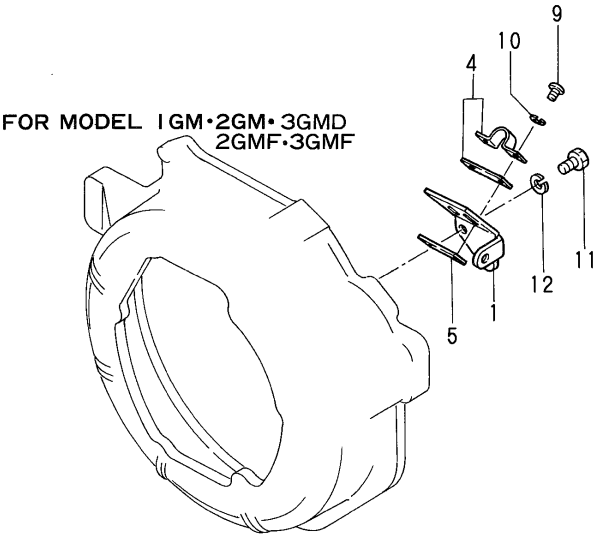


(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

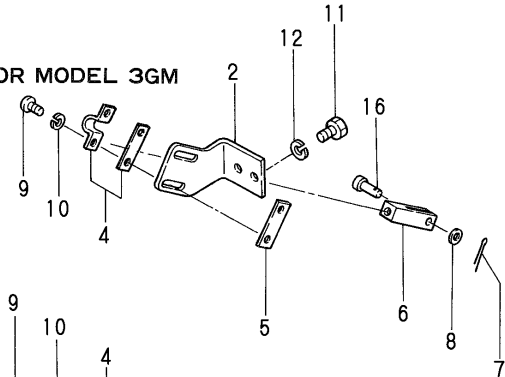
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-81030	CLUTCH KM2A I=2.21	1	1						
1A	1	128170-81010	CLUTCH KM2A I=2.62	1	1						
1B	1	128170-81020	CLUTCH KM2A I=3.22	1	1						
2	1	128370-81010	CLUTCH ASSY (I=2.14)				1				
2A	1	128370-81030	CLUTCH ASSY (I=2.63)				1				
2B	1	128370-81020	CLUTCH ASSY (I=2.83)				1				
3	1	128371-81010	CLUTCH KM3A I=2.36				1	1			
3A	1	128371-81020	CLUTCH KM3A I=2.61				1	1			
3B	1	128371-81030	CLUTCH KM3A I=3.20				1	1			
4	1	128670-81010	CLUTCH ASSY (I=2.14)						1	1	
4A	1	128670-81020	CLUTCH ASSY (I=2.83)						1	1	
5	1	124072-81050	DISC,DAMPER	1	1						
5-1	1	128371-81050	DISC,DAMPER	1	1		1				R
	(A=EXXX)	(B=EXXX)									
6	1	124772-81050	DISC,DAMPER				1		1	1	
7	1	26116-080142	BOLT 8X14	6	6	6	6	6	6		
8	1	22217-080000	SPRING WASHER 8	6	6	6	6	6	6		
9	1	26116-080252	BOLT M 8X 25 PLATED	8	8						
10	1	26116-080302	BOLT 8X30			6					
11	1	26116-080282	BOLT M 8X 28 PLATED					6	6		
12	1	22217-080000	SPRING WASHER 8					8	8		
13	1	22217-080000	SPRING WASHER 8	8	8	8					Z
	(A=EXXX)	(B=EXXX)	(C=EXXX)								
14	1	26226-080182	STUD M 8X 18 PLATED			2					
15	1	26226-080222	STUD M 8X 22 PLATED					2	2		
16	1	26716-080002	NUT M 8			2		2	2		
17	1	22117-080000	WASHER 8	8	8	8	8	8	8	W	
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)	(E=EXXX)	(F=EXXX)					
18	1	26116-080302	BOLT 8X30		8	8					1

Remarks
(1)3GMF,3GMD

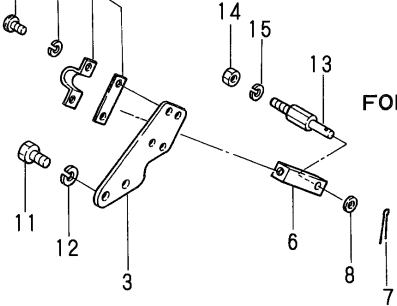
Fig.54.CLUTCH REMOTE CONTROL



FOR MODEL 3GM



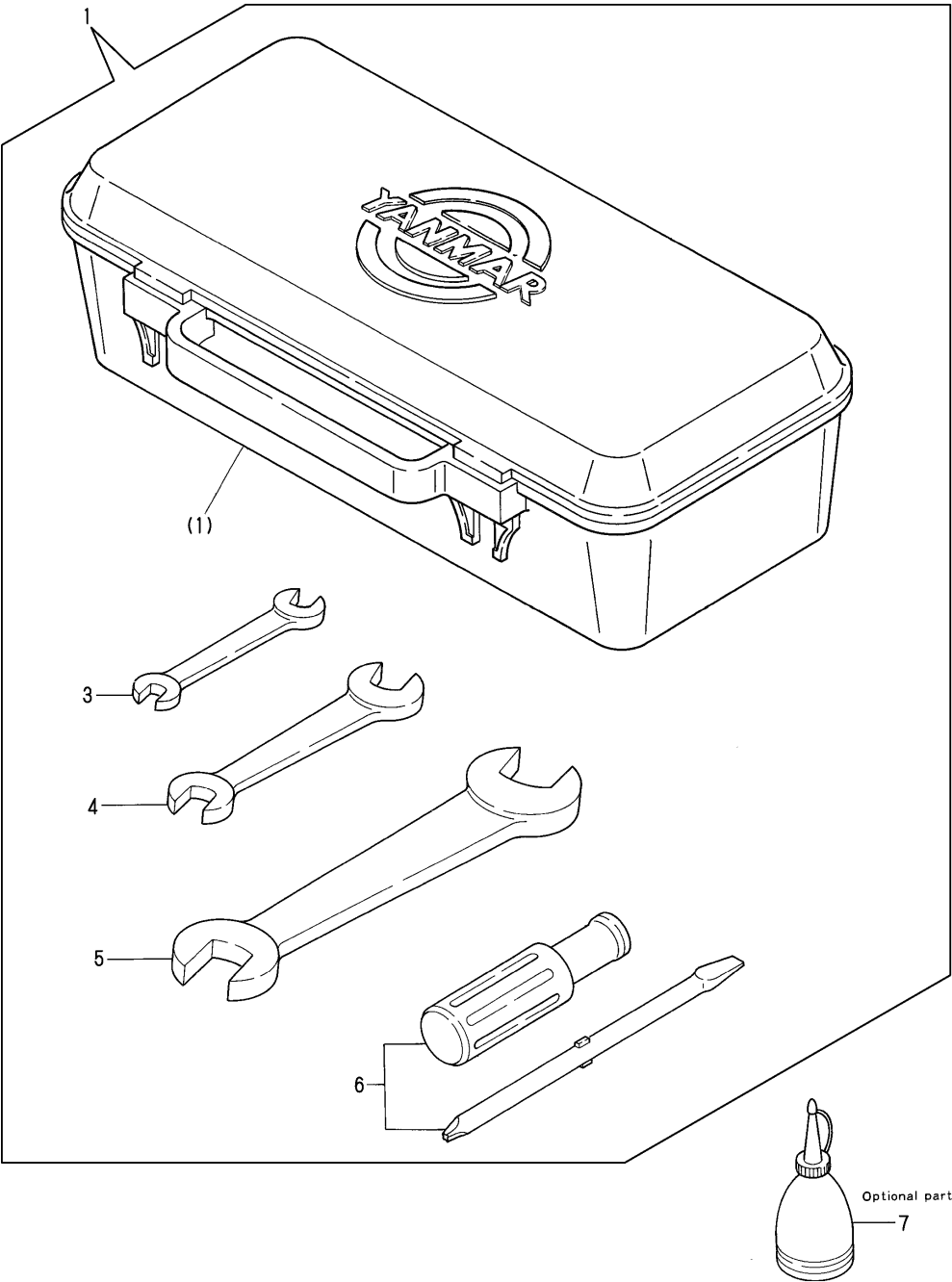
FOR MODEL 3HM• 3HMF



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-86300	BRACKET, CABLE	1	1	1	1				
2	1	128370-86300	BRACKET, CABLE			1					
3	1	128670-86300	BRACKET, CABLE						1	1	
4	1	41710-000410	CLAMP	1	1	1	1	1	1		
5	1	121574-86320	RETAINER	1	1	1	1				
6	1	128370-86280	CLEVIS 12SQ-48L			1		1	1		
7	1	22414-160100	COTTER PIN 1.6X10			1		1	1		
8	1	22113-060000	WASHER 6			1		1	1		
9	1	26557-050122	SCREW M 5X 12	2	2	2	2	2	2		
10	1	22217-050000	SPRING WASHER 5	2	2	2	2	2	2		
11	1	26116-060142	BOLT M 6X 14	2	2	2	2	2	2		
12	1	22217-060000	SPRING WASHER 6	2	2	2	2	2	2		
13	1	128670-86250	JOINT, CLUTCH LEVER					1	1		
14	1	26716-060002	NUT 6					1	1		
15	1	22217-060000	SPRING WASHER 6					1	1		
16	1	22487-060160	PIN 6X 16			1					

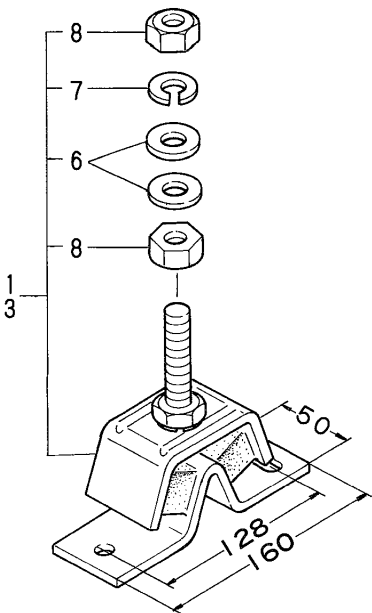
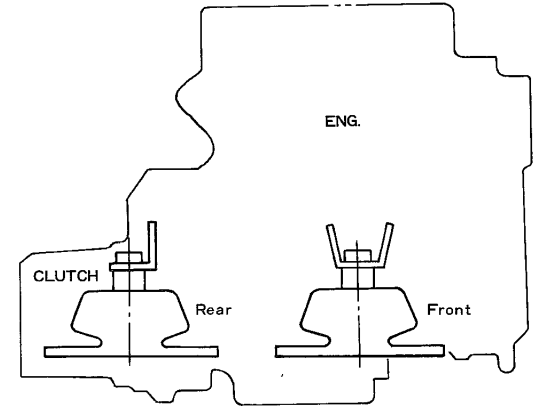
Fig.55.TOOL



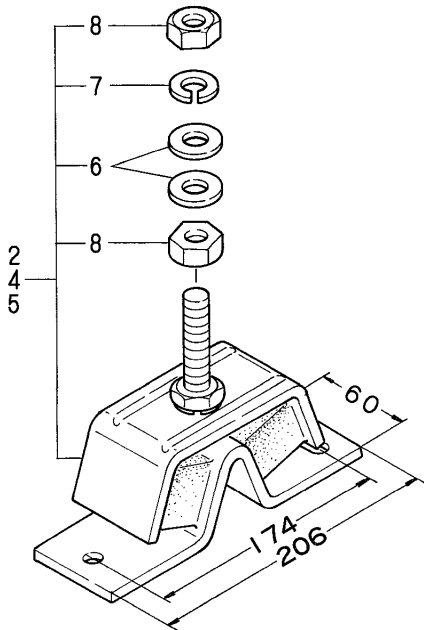
(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	704507-92100	SEE 704800-92100	1	1	1	1	1	1		
3	2	28110-100130	WRENCH 10X13	1	1	1	1	1	1		
4	2	28110-170190	WRENCH 17X19	1	1	1	1	1	1		
5	2	28110-220240	WRENCH 22X24	1	1	1	1	1	1		
6	2	104200-92350	DRIVER, SCREW	1	1	1	1	1	1		
7	1	28210-000150	FEEDER, OIL	1	1	1	1	1	1		

Fig.56.FLEXIBLE MOUNTING(OPTIONAL)



FOR MODEL 1GM

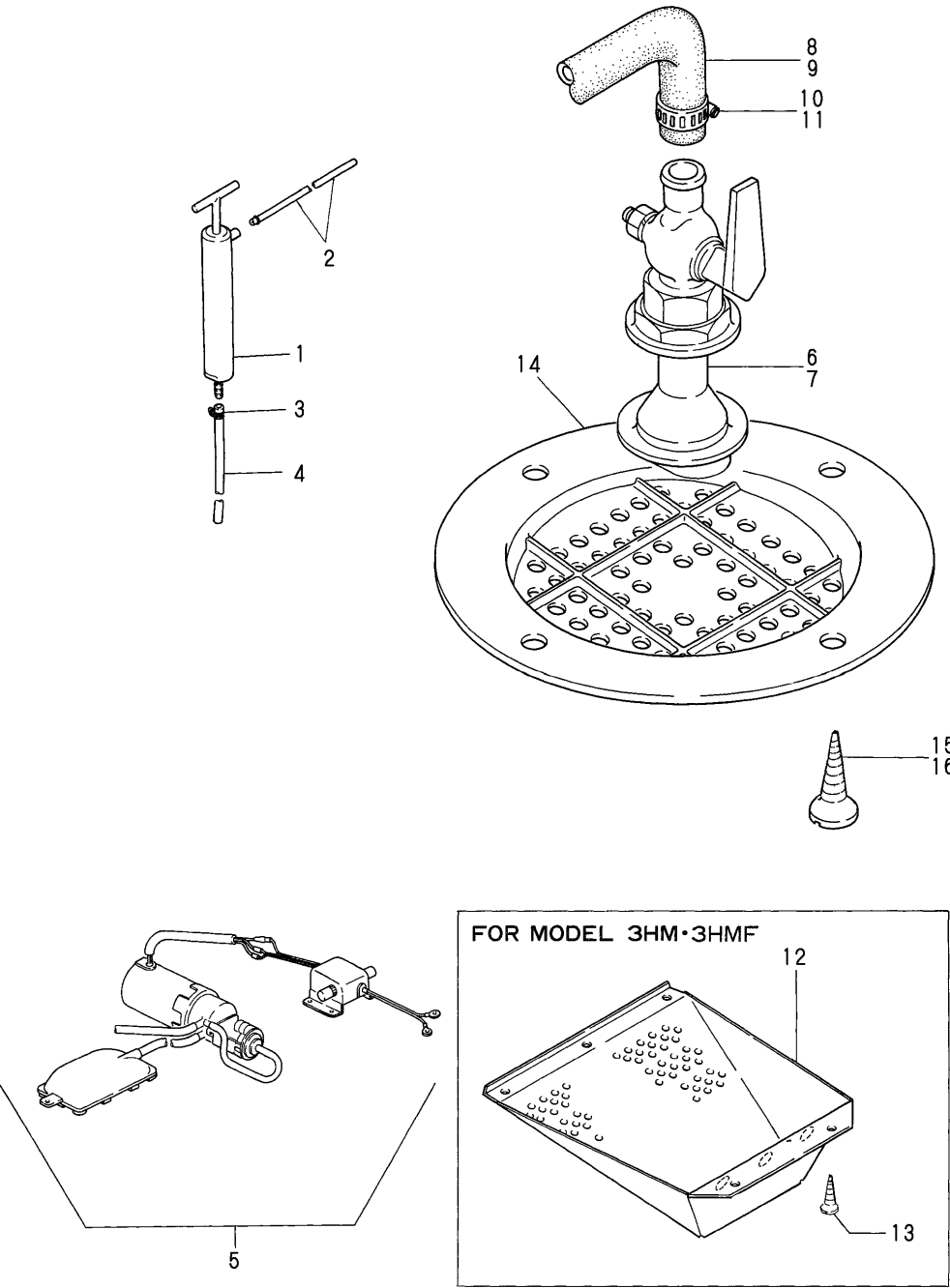


FOR MODEL 2GM•3GM•3GMD•3HM•3HMF
2GMF•3GMF

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-08350	MOUNTING, FLEXIBLE	2							
2	1	124772-08340	MOUNTING, FLEXIBLE		2	2	2	2	2		
3	1	128170-08340	MOUNTING, FLEXIBLE	2							
4	1	128270-08340	MOUNTING, FLEXIBLE		2	2	2				
5	1	124772-08340	MOUNTING, FLEXIBLE					2	2		
6	2	22137-140000	WASHER 14,POLISHED	8	8	8	8	8	8		
7	2	22217-140000	SPRING WASHER 14	4	4	4	4	4	4		
8	2	26736-140002	NUT M14	8	8	8	8	8	8		

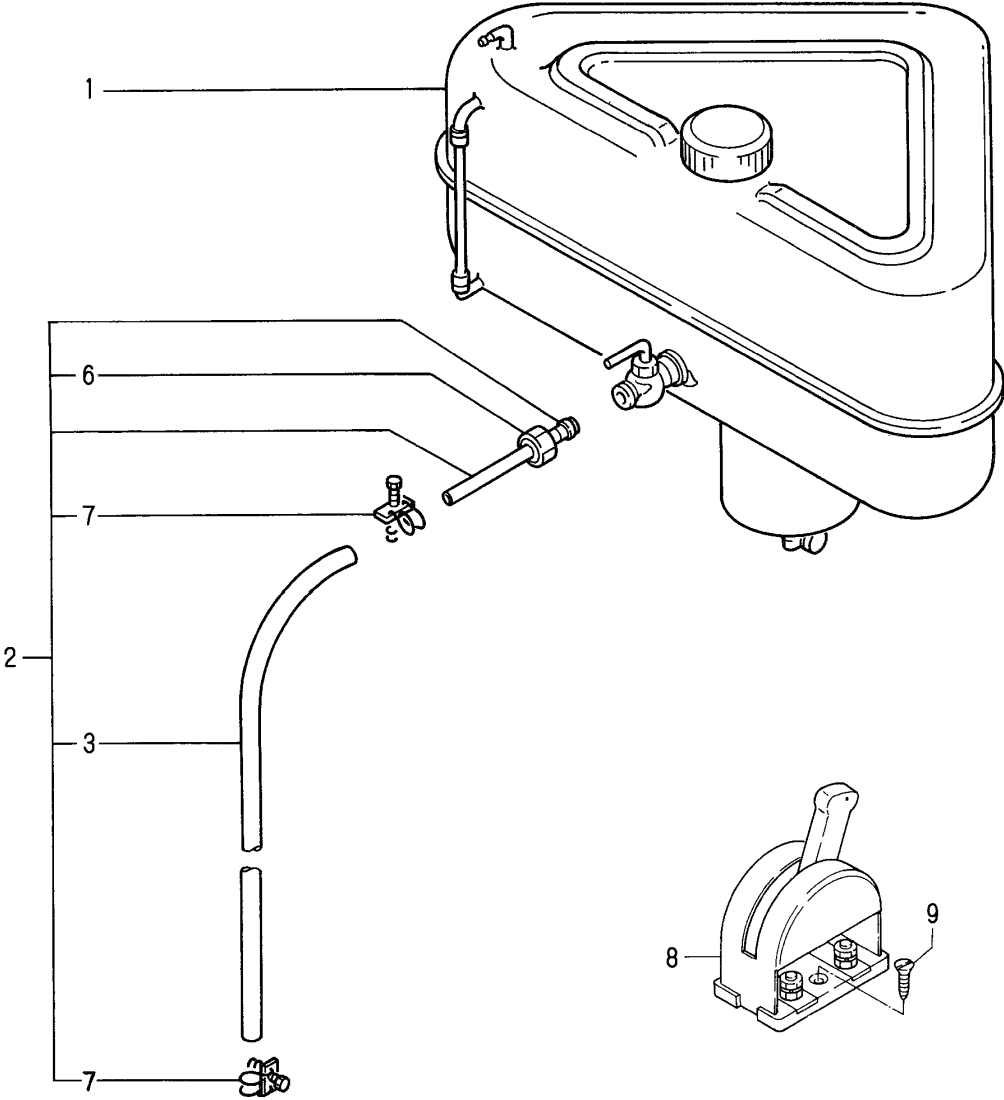
Fig.57.L.O.WASTE,BILGE PUMP & KINGSTON COCK



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	104264-39700	PUMP ASSY, WASTE	1	1	1	1	1	1		
2	1	104264-39710	PIPE, DRAIN	1	1	1	1	1	1		
3	1	23010-012000	CLAMP 12	1	1	1	1	1	1		
4	1	23061-081000	PIPE 8X1000	1	1	1	1	1	1		
5	1	97778-200121	BILGE PUMP 12V	1	1	1	1	1	1		
6	1	43662-010030	COCK ASSY, SEA WATER	1	1	1	1				
7	1	43662-015020	COCK ASSY, SEA WATER							1	1
8	1	104211-49080	PIPE, COOLING WATER	1	1	1	1				
9	1	124223-49050	PIPE, COOLING WATER							1	1
10	1	23000-022000	CLAMP 22	3	3	3	3				
11	1	23000-025000	CLAMP 25							2	2
12	1	43600-500011	COVER, KINGSTON COCK							1	1
				(E=EXXX)				(F=EXXX)			
13	1	22714-580250	SCREW 5.8X25							5	5
14	1	43666-020951	COVER, STRAINER	1	1	1	1	1	1		
15	1	22724-800380	SCREW 8X 38	4	4	4	4				
16	1	22724-800400	SCREW 8X 40							4	4

Fig.58.FUEL OIL TANK & BATTERY SWITCH(OPTIONAL)

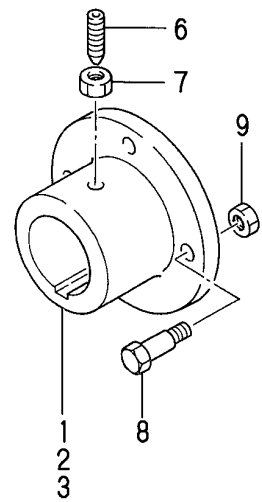


(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

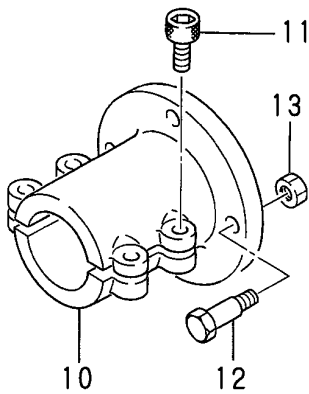
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	83213-003012	TANK (30L), FUEL	1	1	1	1	1	1		
2	1	124070-59060	PIPE, FUEL OIL	1	1	1	1	1	1		
3	2	124070-59130	PIPE, FUEL OIL	1	1	1	1	1	1		
6	2	138603-59380	CAP NUT	1	1	1	1	1	1		
7	2	23010-014000	CLAMP 14	2	2	2	2	2	2		
8	1	123310-77640	SWITCH, BATTERY	1	1	1	1	1	1		
9	1	22724-800380	SCREW 8X 38	2	2	2	2	2	2		

Fig.59.COUPLING(TAPER & SLIT TYPE/OPTIONAL)

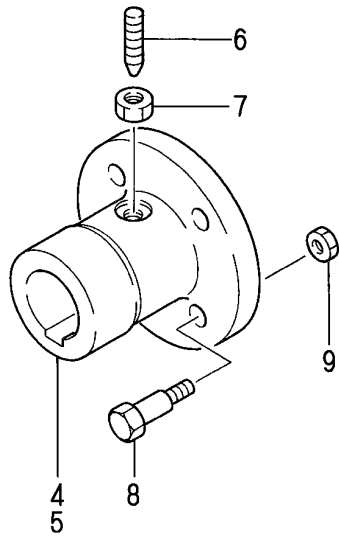
FOR MODEL 1GM•2GM
(TAPER TYPE)



(SLIT TYPE)



FOR MODEL 3GM•3GMD•3HM•3HMF
(TAPER TYPE)

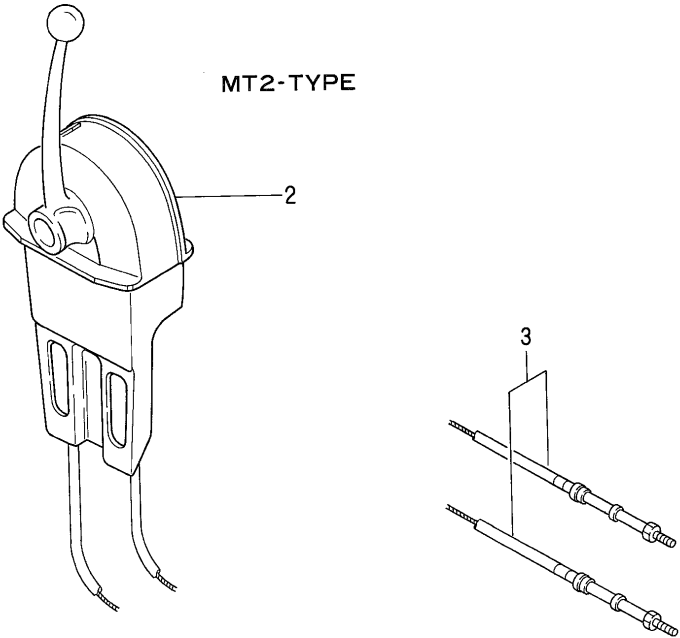
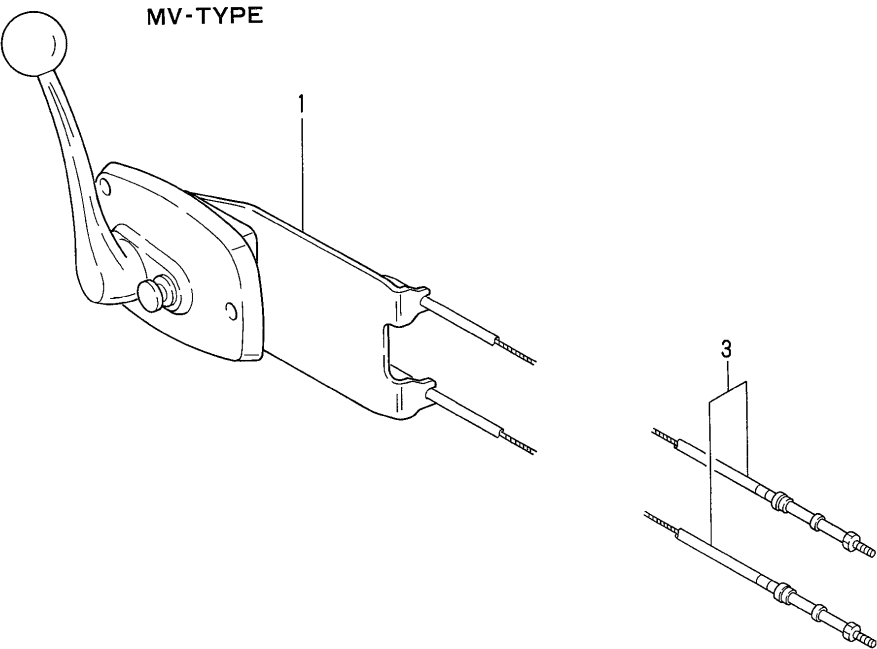


Y00R0902 59.COUPLING(TAPER & SLIT TYPE/OPTIONAL)

(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	48110-025062	COUPLING	1	1						
2	1	48110-025063	COUPLING 25, TAPER		1						
3	1	48110-522361	COUPLING 22, TAPER	1							
4	1	48110-032502	COUPLING			1		1	1		
5	1	48110-028063	COUPLING 28, TAPER			1	1				
6	1	48110-032411	SCREW	1	1	1	1	1	1		
7	1	26757-080002	LOCK NUT M 8 PLATED	1	1	1	1	1	1		
8	1	26116-100322	BOLT M10X 32 PLATED	4	4	4	4	4	4		
9	1	26716-100002	NUT 10	4	4	4	4	4	4		
10	1	104214-83980	COUPLING (20), SLIT	1	1	1	1	1	1		
11	1	26450-080282	BOLT M 8X 28	4	4	4	4	4	4		
12	1	26116-100322	BOLT M10X 32 PLATED	4	4	4	4	4	4		
13	1	26716-100002	NUT 10	4	4	4	4	4	4		

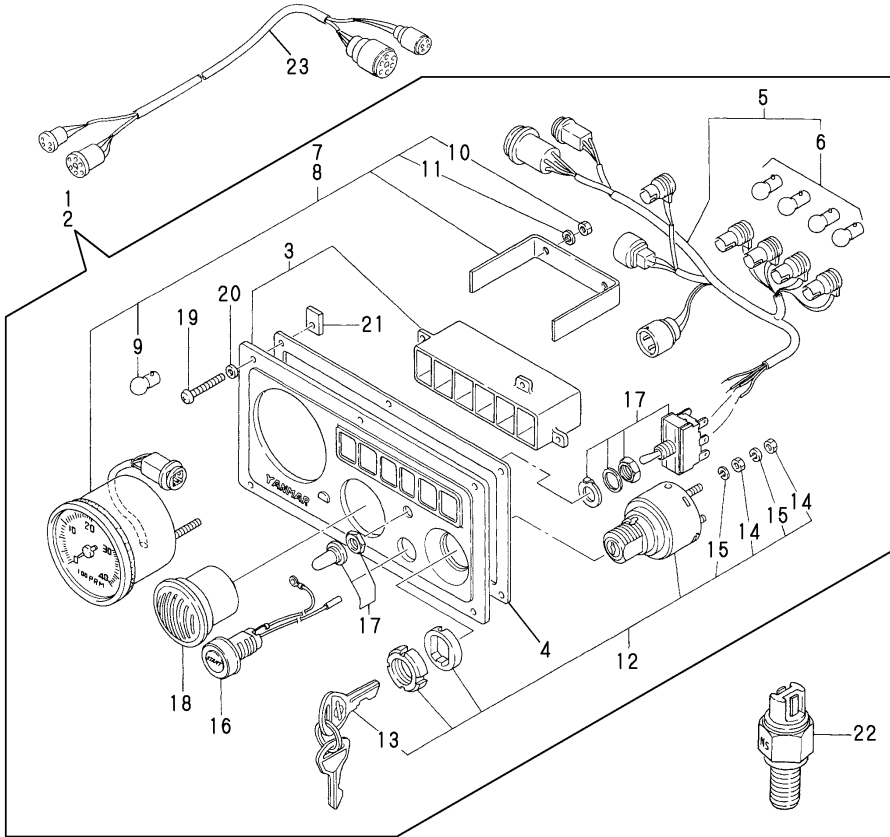
Fig.60.SINGLE LEVER CONTROL(OPTIONAL)



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-86500	MOUNT	1	1	1	1	1	1		
2	1	41730-000680	HEAD, REMOTE-CONTROL	1	1	1	1	1	1		
3	1	41710-000380	CABLE L=4000	2	2	2	2	2	2		

Fig.61.INSTRUMENT PANEL(M1 & M2-TYPE/-TYPE/OPTIONAL)



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128170-91000	PANEL ASSY, INSTRUM	1	1	1	1				
1-1	1	128170-91001	PANEL ASSY, INSTRUM	1	1	1	1				N
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)									
2	1	128670-91000	PANEL ASSY, INSTRUM						1	1	
2-1	1	128670-91001	PANEL ASSY, INSTRUM						1	1	N
						(E=EXXX)			(F=EXXX)		
3	2	128170-91010	HOUSING, PANEL	1	1	1	1	1	1	1	
4	2	128170-91020	GASKET	1	1	1	1	1	1	1	
5	2	128170-91030	HARNESS, WIRE	1	1	1	1	1	1	1	
5-1	2	128170-91031	HARNESS, WIRE	1	1	1	1	1	1	1	N
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)				(E=EXXX)			(F=EXXX)		
6	3	46150-001110	BULB(12V3W/G11.BA9S)	4	4	4	4	4	4	4	
7	2	128170-91100	TACHOMETER (P=97)	1	1	1	1				
8	2	128670-91100	TACHOMETER (P=114)						1	1	
9	3	46150-001110	BULB(12V3W/G11.BA9S)	1	1	1	1	1	1	1	
10	3	26716-050002	NUT M 5	2	2	2	2	2	2	2	
11	3	22217-050000	SPRING WASHER 5	2	2	2	2	2	2	2	
12	2	124070-91250	SWITCH W/KEY	1	1	1	1	1	1	1	
13	3	124070-91290	KEY, SWITCH	1	1	1	1	1	1	1	
14	3	26716-050002	NUT M 5	4	4	4	4	4	4	4	
15	3	22217-050000	SPRING WASHER 5	4	4	4	4	4	4	4	
16	2	124070-91300	SWITCH	1	1	1	1	1	1	1	
17	2	128170-91310	SWITCH, LAMP	1	1	1	1	1	1	1	
18	2	104271-91351	BUZZER	1	1	1	1	1	1	1	
19	2	128170-91810	SCREW M5	6	6	6	6	6	6	6	
20	2	128170-91820	WASHER 5	6	6	6	6	6	6	6	
21	2	128170-91830	PLATE NUT M5	6	6	6	6	6	6	6	
22	1	128170-91160	SENSOR, TACHOMETER	1	1	1	1	1	1	1	
23	1	128170-77500	HARNESS, WIRE	1	1	1	1	1	1	1	

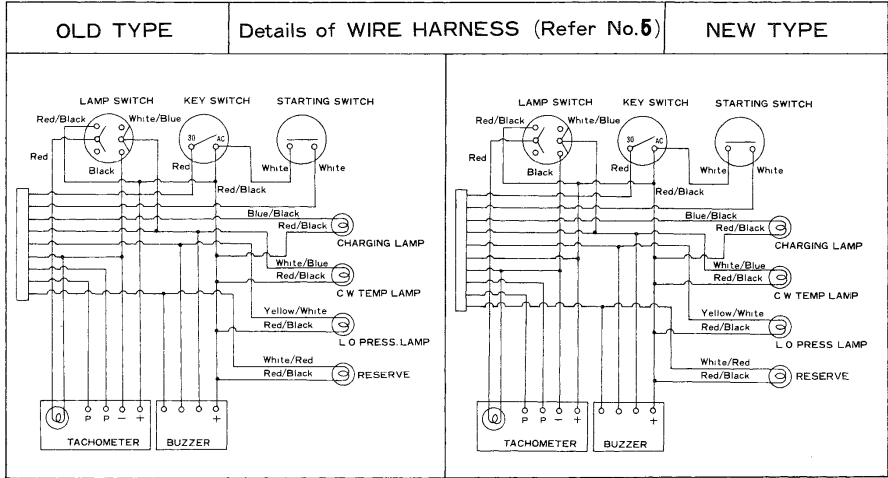
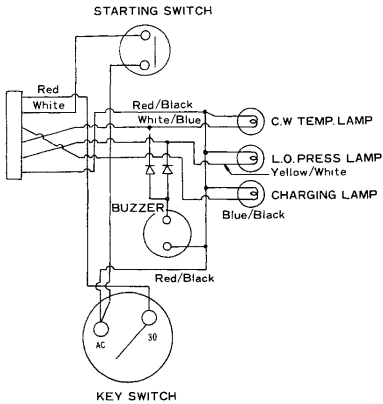
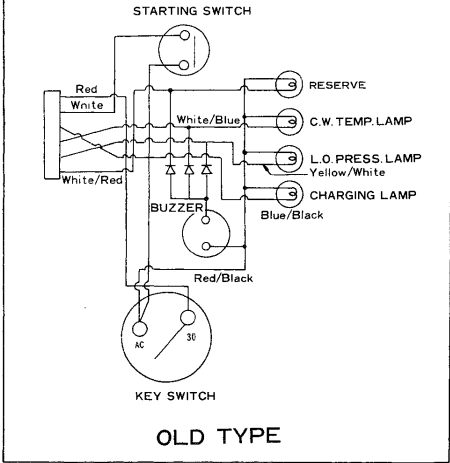
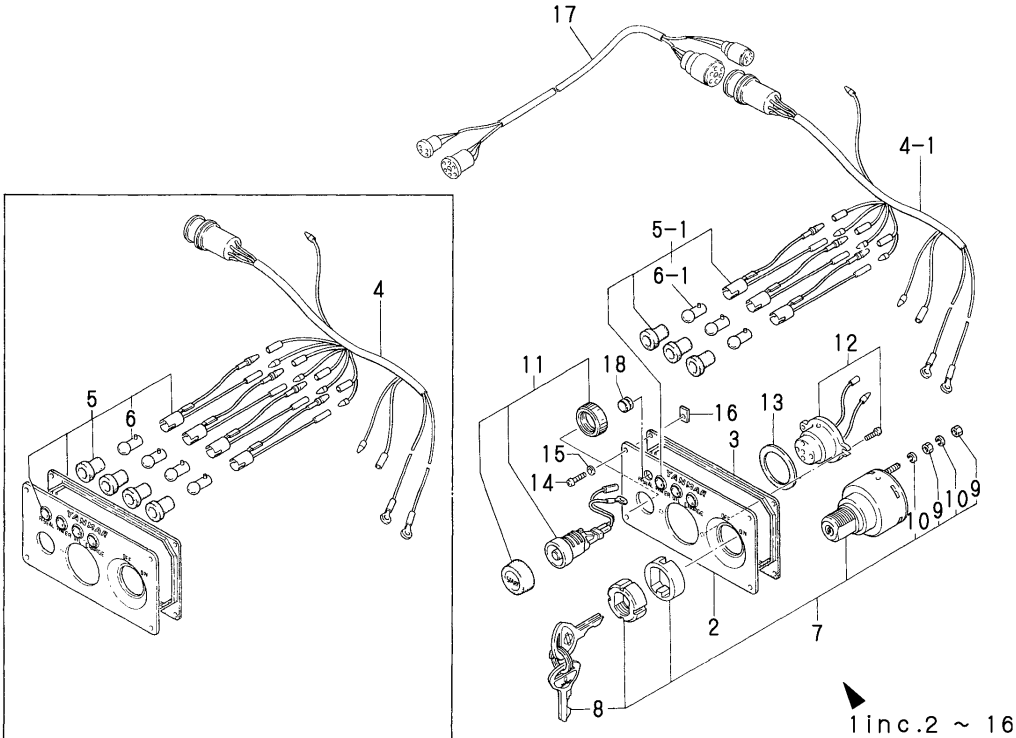


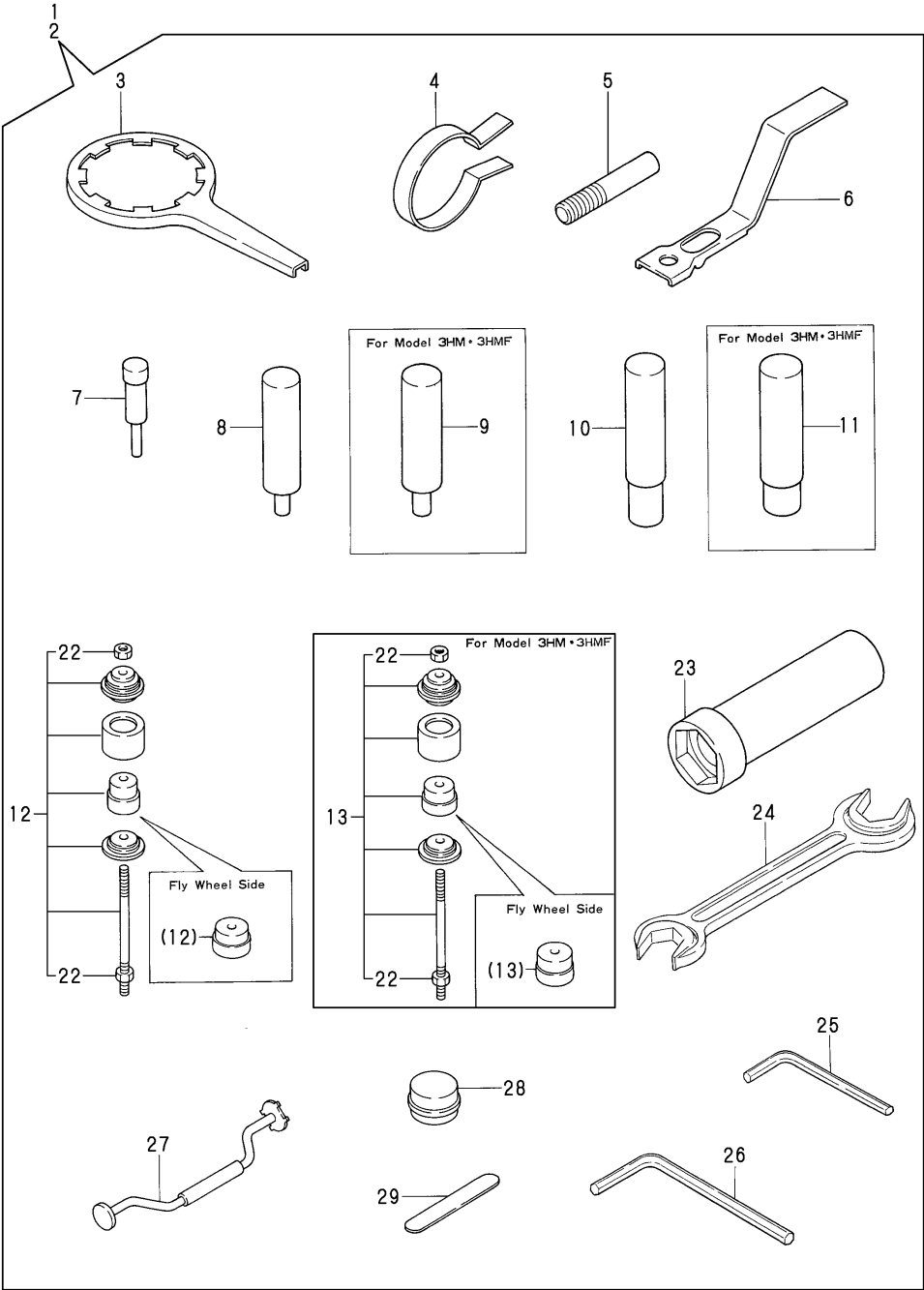
Fig.62.INSTRUMENT PANEL(S-TYPE/OPTIONAL)



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM(F) (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128270-91000	PANEL ASSY, INSTRUM	1	1	1	1	1	1		
1-1	1	128270-91001	PANEL ASSY, INSTRUM.	1	1	1	1	1	1	N	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
2	2	128270-91010	HOUSING, PANEL	1	1	1	1	1	1		
3	2	128270-91020	PACKING	1	1	1	1	1	1		
4	2	128270-91030	HARNESS, WIRE	1	1	1	1	1	1		
4-1	2	128270-91031	HARNESS, WIRE	1	1	1	1	1	1	N	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
5	2	128270-91040	LAMP, PILOT	4	4	4	4	4	4		
5-1	2	128270-91040	LAMP, PILOT	3	3	3	3	3	3	K	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
6	3	46150-001110	BULB(12V3W/G11.BA9S)	4	4	4	4	4	4		
6-1	3	46150-001110	BULB(12V3W/G11.BA9S)	3	3	3	3	3	3	K	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									
7	2	124070-91250	SWITCH W/KEY	1	1	1	1	1	1		
8	3	124070-91290	KEY, SWITCH	1	1	1	1	1	1		
9	3	26716-050002	NUT M 5	4	4	4	4	4	4		
10	3	22217-050000	SPRING WASHER 5	4	4	4	4	4	4		
11	2	124070-91300	SWITCH	1	1	1	1	1	1		
12	2	128270-91350	BUZZER, ALARM	1	1	1	1	1	1		
13	2	128270-91360	PACKING, BUZZER	1	1	1	1	1	1		
14	2	128170-91810	SCREW M5	4	4	4	4	4	4		
15	2	128170-91820	WASHER 5	4	4	4	4	4	4		
16	2	128170-91830	PLATE NUT M5	4	4	4	4	4	4		
17	1	128170-77500	HARNESS, WIRE	1	1	1	1	1	1		
18	1	128270-91230	COVER	1	1	1	1	1	1	W	
		(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX) (E=EXXX) (F=EXXX)									

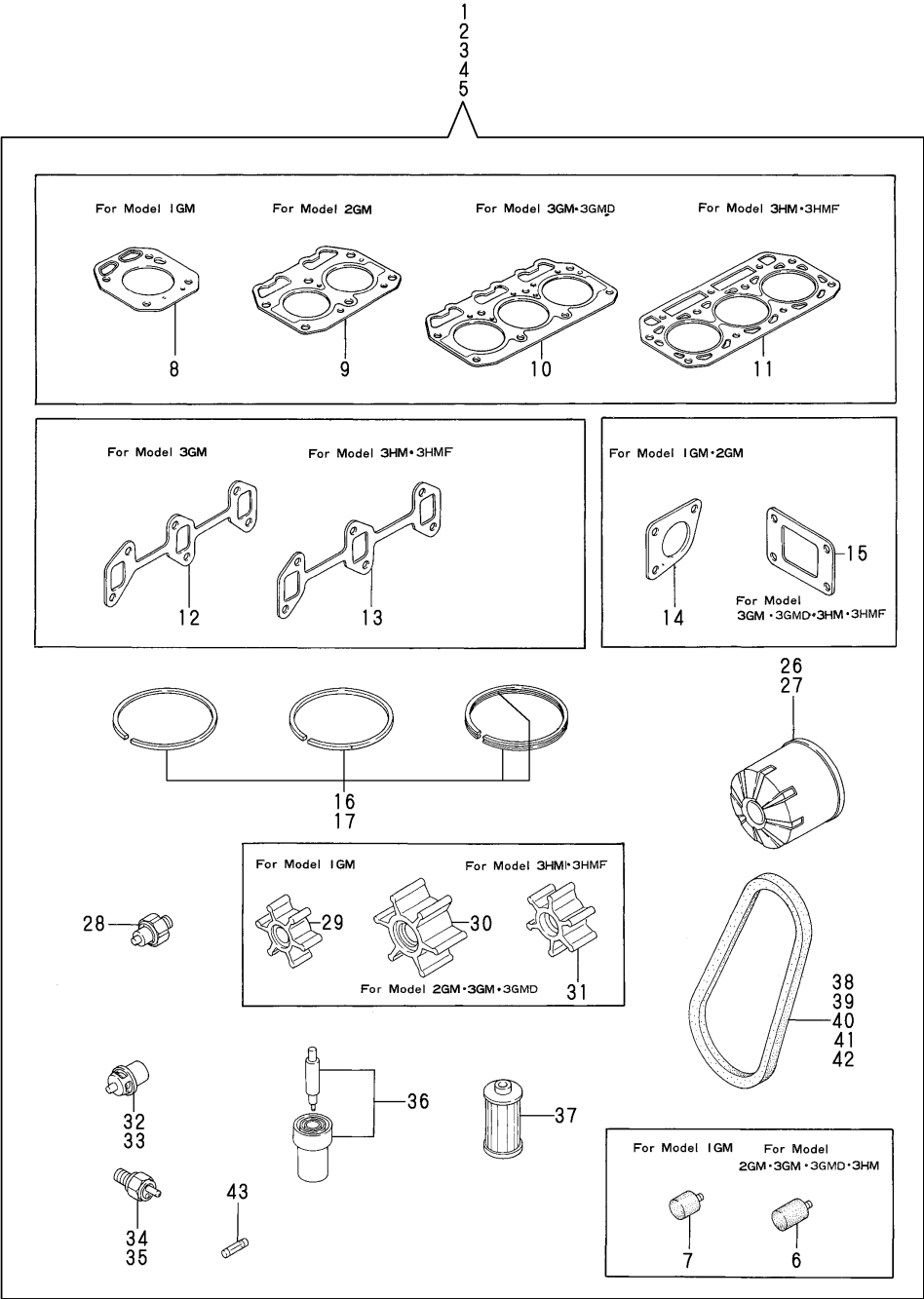
Fig.63.SPECIAL TOOL(OPTIONAL)



(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728270-92400	TOOL, ASSY, SPECIAL	1	1	1	1				
2	1	728670-92400	TOOL, ASSY, SPECIAL					1	1		
3	2	124550-35350	WRENCH, FILTER	1	1	1	1	1	1		
4	2	101200-92140	TOOL, PISTON&RING	1	1	1	1	1	1		
5	2	101104-92180	PULLER, NOZZLE	1	1	1	1	1	1		
6	2	124085-92210	REMOVER, VALVE	1	1	1	1	1	1		
7	2	124085-92250	REMOVER, VALVE GUIDE	1	1	1	1	1	1		
8	2	124085-92260	REMOVER, PISTON PIN	1	1	1	1				
9	2	128670-92260	TOOL, PISTONPIN					1	1		
10	2	124085-92270	REMOVER, PIN BUSH	1	1	1	1				
11	2	128670-92270	REMOVER, PIN BUSH					1	1		
12	2	124085-92400	REPLACER, MAIN BERG.	1	1	1	1				
13	2	128670-92400	REPLACER, MAIN BERG.					1	1		
22	3	26716-160002	NUT M16	2	2	2	2	2	2		
23	2	124085-92700	WRENCH	1	1	1	1	1	1		
24	2	28110-270300	WRENCH 27X30	1	1	1	1	1	1		
25	2	28150-040000	BAR WRENCH	1	1	1	1	1	1		
26	2	28150-050000	BAR WRENCH	1	1	1	1	1	1		
27	2	28210-000031	RAPPING TOOL	1	1	1	1	1	1		
28	2	28210-000070	LAPPING POWDER	1	1	1	1	1	1		
29	2	28312-150750	THICKNESS GAUGE	1	1	1	1	1	1		

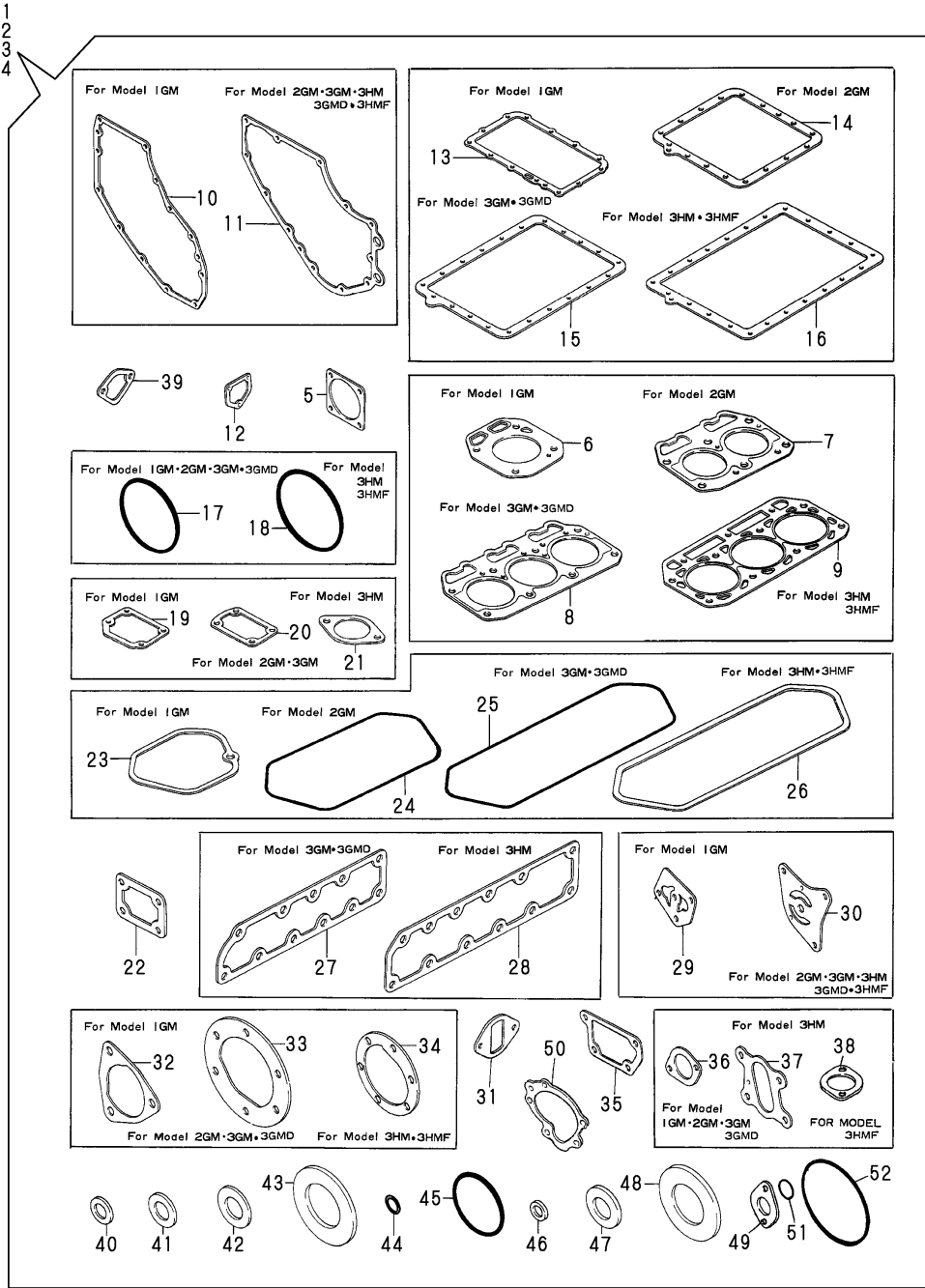
Fig.64.REPAIR KIT(OPTIONAL)



Y00R0902 64.REPAIR KIT(OPTIONAL)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-92500	REPAIR SET	1							
2	1	728270-92500	REPAIR SET		1						
3	1	728370-92500	REPAIR SET				1	1			
4	1	728670-92500	REPAIR SET						1		
5	1	728690-92500	REPAIR SET							1	
6	2	27210-200300	ZINC, ANTI-CORROSIVE		2	3	3	3			
7	2	27210-200200	ZINC, ANTI-CORROSIVE	1							
8	2	128170-01331	GASKET, CYL. HEAD	1							
9	2	128270-01331	GASKET, CYL. HEAD		1						
10	2	128370-01331	GASKET, CYL. HEAD				1	1			
11	2	121575-01333	GASKET, CYL. HEAD						1	1	
12	2	121450-13250	GASKET, EXH.MANIFOLD				1	1			
13	2	121550-13520	GASKET, EXH.MANIFOLD						1	1	
14	2	128170-13200	GASKET	1	1						
15	2	128370-13200	GASKET				1	1	1	1	
16	2	721000-22500	RING SET	1	2	3	3				
17	2	721575-22500	RING SET						3	3	
26	2	124450-35100	FILTER, LUB. OIL	1	1	1	1				
27	2	124550-35110	ELEMENT, LUB. OIL						1	1	
28	2	124060-39451	SENDER, OIL PRESSURE	1	1	1	1	1	1	1	
29	2	128170-42070	IMPELLER, C. WATER	1							
30	2	104211-42070	IMPELLER, C. WATER		1	1	1				
31	2	124223-42091	IMPELLER, C. WATER						1	1	
32	2	105582-49200	THERMOSTAT	1	1	1	1	2			
33	2	121750-49800	THERMOSTAT							1	
34	2	128275-91340	SWITCH, THERMO(65C	1	1	1	1	1	1		
35	2	127610-91360	SWITCH, THERMO							1	
36	2	124770-53000	NOZZLE ASSY,F.INJECT	1	2	3	3	3	3		
37	2	104500-55710	ELEMENT, FUEL	1	1	1	1	1	1	1	
38	2	104511-78780	V-BELT		1	1	1	1	1	1	
39	2	128170-77350	V-BELT (HM-29)	1							
40	2	25132-003000	V-BELT		1	1	1				
41	2	128670-77350	V-BELT (A-31)						1		
42	2	128695-44780	V-BELT							1	
43	2	46150-003680	FUSE 30A	1	1	1	1	1	1	1	

Fig.65.GASKET KIT(OPTIONAL)



Y00R0902 65.GASKET KIT(OPTIONAL)

(A)=1GM
(B)=2GM(F)
(C)=3GM(F)
(D)=3GMD
(E)=3HM
(F)=3HMF

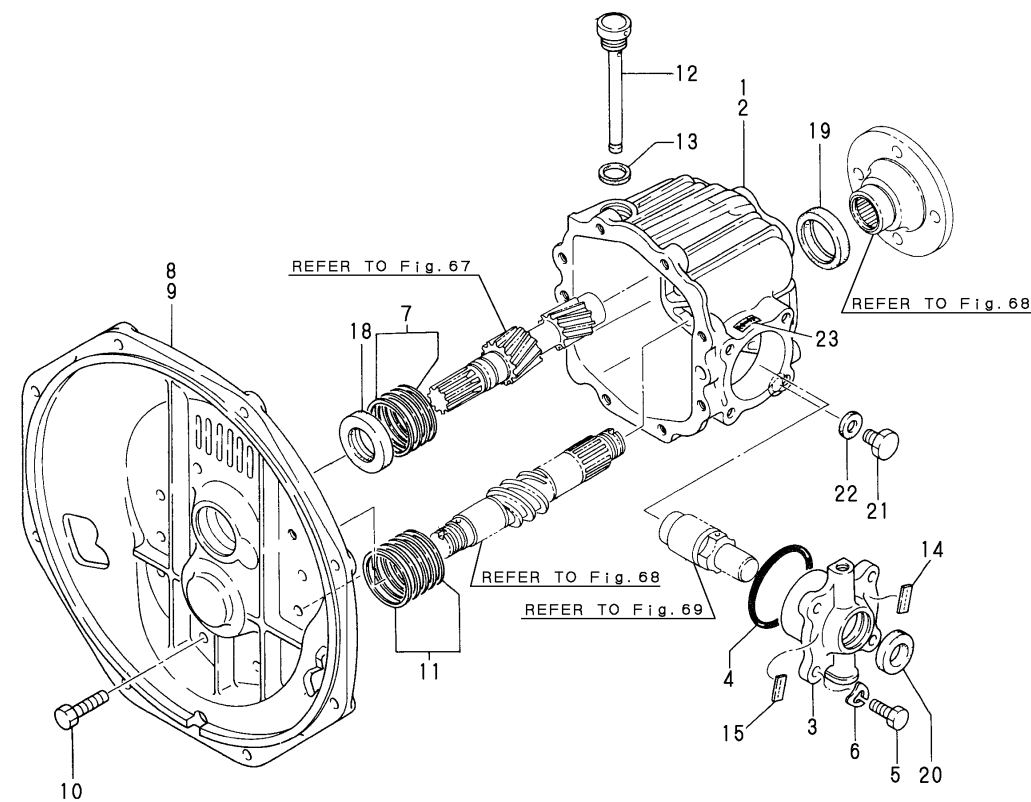
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728170-92600	GASKET SET	1							
2	1	728270-92600	GASKET SET		1						
3	1	728370-92600	GASKET SET			1	1				
4	1	728670-92600	GASKET SET						1	1	
5	2	124240-01882	GASKET, HYD.OIL PUMP	1	1	1	1	1	1	1	
6	2	128170-01331	GASKET, CYL. HEAD	1							
7	2	128270-01331	GASKET, CYL. HEAD		1						
8	2	128370-01331	GASKET, CYL. HEAD			1	1				
9	2	121575-01333	GASKET, CYL. HEAD					1	1		
10	2	128170-01510	GASKET, GEAR CASE	1							
11	2	121575-01510	GASKET, GEAR HOUSING		1	1	1	1	1	1	
12	2	121575-01860	GASKET, COVER		1	1	1	1	1	1	
13	2	128170-01750	GASKET, OIL SUMP	1							
14	2	124000-01750	GASKET, OIL SUMP		1						
15	2	121450-01751	GASKET, OIL SUMP			1	1				
16	2	121575-01750	GASKET, OIL SUMP					1	1		
17	2	105225-02020	O-RING	1	1	1	1				
18	2	24341-001350	O-RING 1A S-135.0					1	1		
19	2	128170-03070	GASKET	1							
20	2	121000-03070	GASKET		1	1	1				
21	2	121450-03071	GASKET					1	1		
22	2	121450-11680	GASKET,COVER		1	1	1	1	1	1	
23	2	128170-11310	GASKET, BONNET	1							
24	2	128270-11310	GASKET, BONNET		1						
25	2	121450-11310	GASKET, BONNET			1	1				
26	2	128670-11310	GASKET, BONNET					1	1		
26-1	2	121550-11310	GASKET, BONNET					1	1	S	
				(E=EXXX)		(F=EXXX)					
27	2	128370-13180	GASKET		1	1					
28	2	128670-13180	GASKET					1	1		
29	2	128170-32030	GASKET	1							
30	2	121450-32021	GASKET, L.O.PUMP		1	1	1	1	1	1	
31	2	124160-34844	GASKET			1	1				
32	2	128170-42090	GASKET	1							
33	2	104211-42090	GASKET		1	1	1				
34	2	124223-42110	GASKET		1	1	1	1	1	1	
35	2	121450-44410	GASKET, BRACKET		1	1	1	1	1	1	
36	2	104211-49160	PACKING	1	1	1	1				
37	2	121575-49160	PACKING					1			
38	2	124736-49540	GASKET, THERMO.							1	
39	2	121520-01850	GASKET, F.FEED PUMP	1	1	1	1	1	1	1	
40	2	23414-080000	GASKET 8, ROUND	20	20	20	20	20	20	20	
41	2	23414-100000	GASKET 10, ROUND	5	5	5	5	5	5	5	
42	2	23414-120000	GASKET 12, ROUND	20	20	20	20	20	20	20	
43	2	23414-250000	GASKET 25,ROUND		5	5	5	5	5	5	
44	2	24311-000100	O-RING 1A P-10.0		2	2	2	2	2	2	
45	2	24321-000350	O-RING 1A G-35.0	1	1	1	1	1	1	1	
46	2	43400-500390	SEAL WASHER 6S	2	2	2	2	2	2	2	
47	2	43400-500450	SEAL WASHER 12S	2	2	2	2	2	2	2	
48	2	43400-500570	SEAL WASHER 24S	1							
49	2	128695-01840	GASKET						1	1	W
				(E=EXXX)		(F=EXXX)					
50	2	121000-42050	GASKET		1	1	1	1	1	1	W
				(B=EXXX)	(C=EXXX)	(D=EXXX)	(E=EXXX)	(F=EXXX)			

++ CONTINUE ++



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						U	R
				(A)	(B)	(C)	(D)	(E)	(F)		
51	2	24311-000160	O-RING 1A P-16.0 (B=EXXX) (C=EXXX) (D=EXXX)	1	1	1	1	1	1	W	
52	2	24311-000700	O-RING 1A P-70.0	2	2	2	2	2	2		

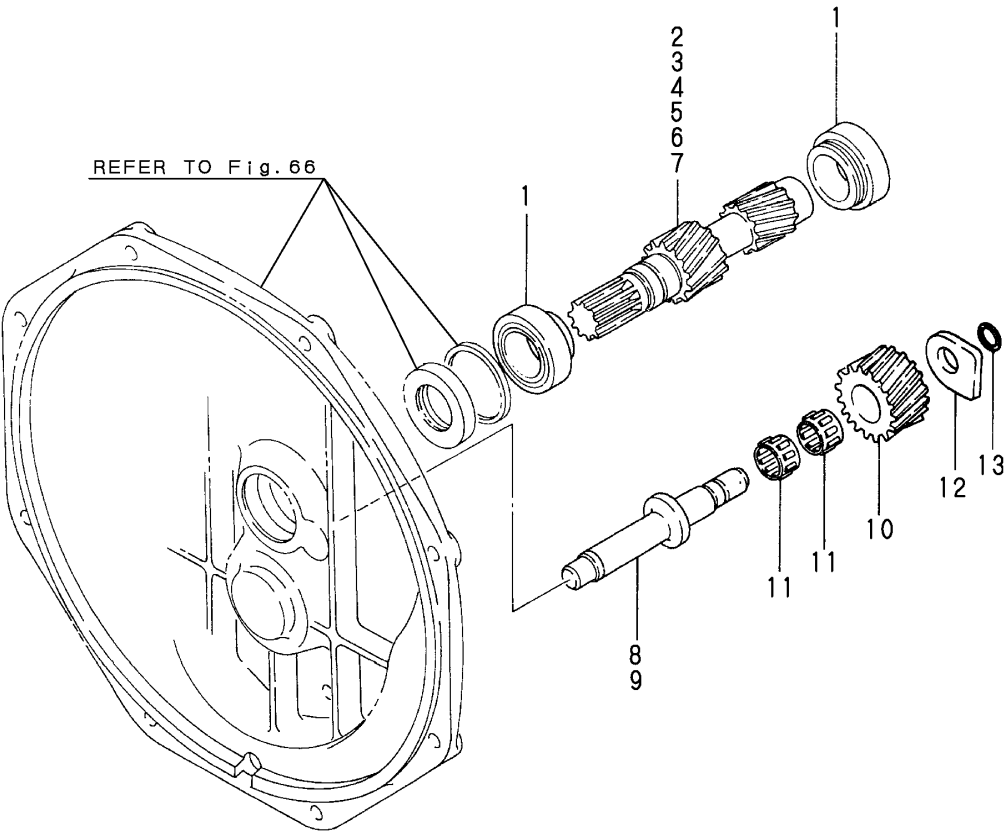
Fig.66.CLUTCH HOUSING



(A)=1GM
(B)=2GM(F)
(C)=3GMF
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177088-02011	HOUSING, CLUTCH	1	1						
2	1	177070-02011	HOUSING, CLUTCH			1	1				
3	1	177088-02091	COVER, SIDE	1	1	1	1				
4	1	24341-000600	O-RING 1A S-60.0	1	1	1	1				
5	1	26116-080202	BOLT M 8X 20 PLATED	4	4	4	4				
6	1	22287-080000	LOCKING WASHER	4	4	4	4				
7	1	177088-02350	SHIM SET	1	1	1	1				
8	1	177088-02032	FLANGE, CLUTCH	1	1						
9	1	177070-02031	FLANGE, CLUTCH			1	1				
10	1	26116-080252	BOLT M 8X 25 PLATED	8	8	8	8				
11	1	177090-02250	SHIM SET	1	1	1	1				
12	1	177088-02450	DIPSTICK	1	1	1	1				
13	1	23414-160021	GASKET 16	1	1	1	1				
14	1	177090-02620	LABEL	1	1						
15	1	170090-02630	LABEL	1	1						
18	1	177088-02950	SEAL SC25 40 8, OIL	1	1	1	1				
19	1	177088-02961	SEAL MHA34 44 8,OIL	1	1	1	1				
20	1	177088-02970	SEAL, OIL	1	1	1	1				
21	1	23883-100002	PLUG 10	1	1	1	1				
22	1	23414-100000	GASKET 10, ROUND	1	1	1	1				
23	1	177088-02430	LABEL			1	1				

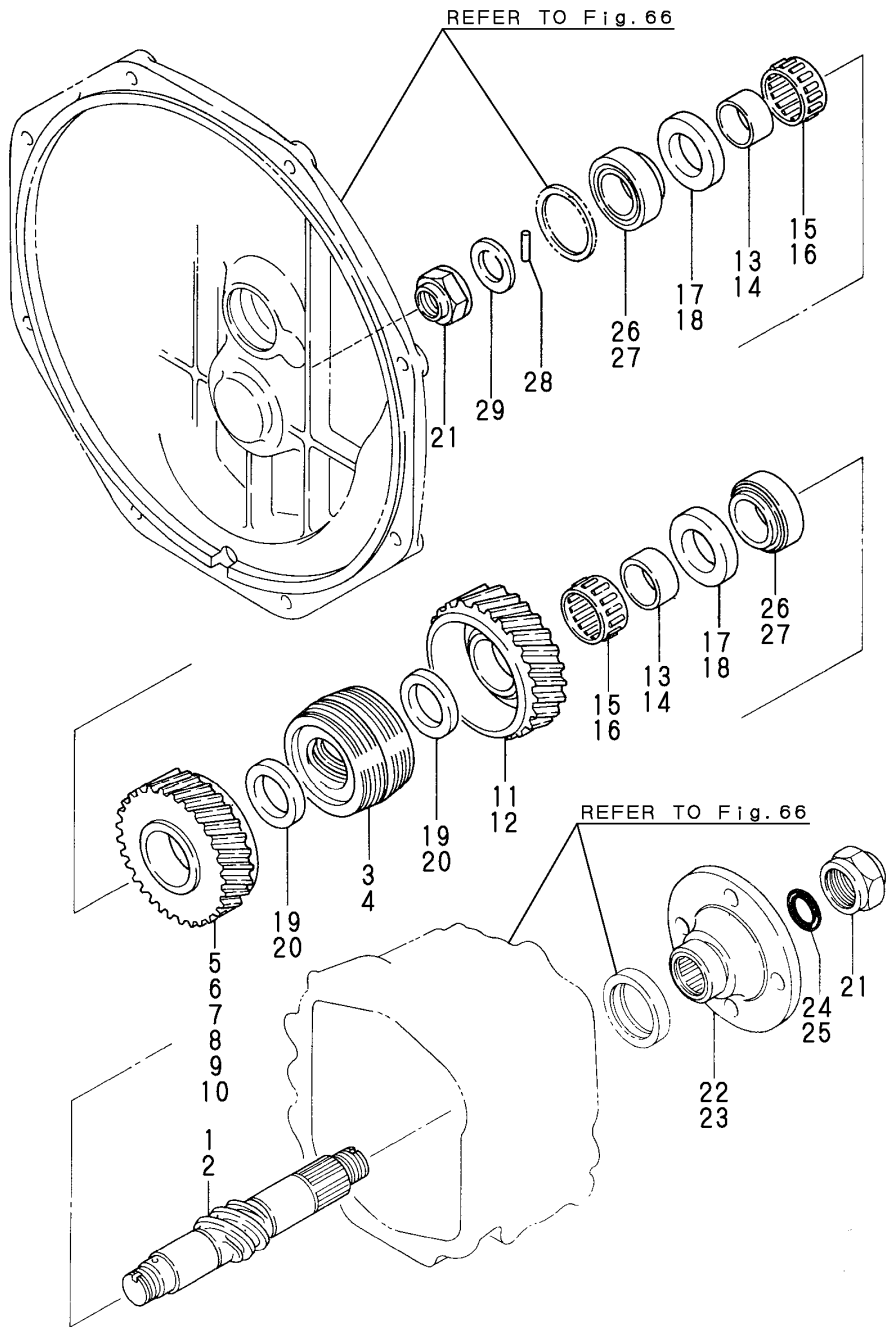
Fig.67.INPUT SHAFT & IDLE GEAR SHAFT



(A)=1GM
(B)=2GM(F)
(C)=3GMF
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177088-03400	ROLLER BERING	2	2	2	2				
2	1	177088-03030	SHAFT, INPUT	1	1						
3	1	177088-03011	SHAFT, INPUT	1	1						
4	1	177088-03020	SHAFT, INPUT	1	1						
5	1	177070-03030	SHAFT, INPUT					1	1		
6	1	177070-03010	SHAFT, INPUT					1	1		
7	1	177070-03020	SHAFT, INPUT					1	1		
8	1	177088-03301	SHAFT, REVERSE IDLE	1	1						
9	1	177070-03301	SHAFT, REVERSE IDLE					1	1		
10	1	177088-03311	GEAR (Z=26), IDLE	1	1	1	1				
11	1	177088-03331	NEEDLE BERG.#K162213	2	2	2	2				
12	1	177088-03341	WASHER, THRUST	1	1	1	1				
13	1	24341-000120	O-RING 1A S-12.0	1	1	1	1				

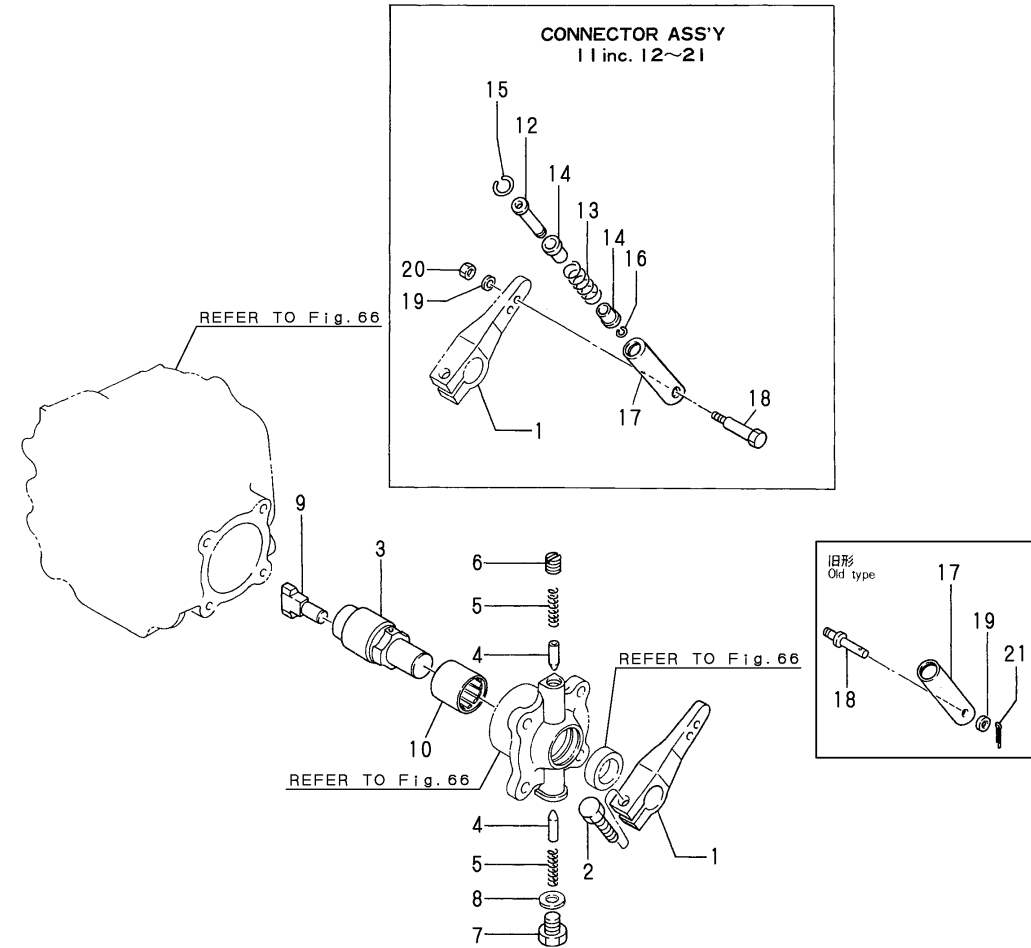
Fig.68.OUTPUT SHAFT



(A)=1GM
(B)=2GM(F)
(C)=3GMF
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177088-03091	SHAFT, OUTPUT	1	1						
2	1	177070-03040	SHAFT, OUTPUT			1	1				
3	1	177088-03071	CONE, DRIVE	1	1						
4	1	177070-03070	CONE,DRIVE			1	1				
5	1	177088-03130	GEAR (Z=53)	1	1						
6	1	177088-03110	GEAR (Z=55)	1	1						
7	1	177088-03120	GEAR (Z=58)	1	1						
8	1	177070-03130	GEAR (Z=59), FORWARD			1	1				
9	1	177070-03111	GEAR (Z=60), REV.			1	1				
10	1	177070-03121	GEAR (Z=64), FORWARD			1	1				
11	1	177088-03110	GEAR (Z=55)	1	1						
12	1	177070-03111	GEAR (Z=60), REV.			1	1				
13	1	177088-03192	RACE, INNER	2	2						
14	1	177070-03190	RACE, BEARING INNER			2	2				
15	1	177088-03201	NEEDLE BERG.#K303517	2	2						
16	1	177070-03200	NEEDLE BEARING			2	2				
17	1	177088-03232	COLLAR (A), THRUST	2	2						
18	1	177070-03230	COLLAR (A), THRUST			2	2				
19	1	177088-03252	COLLAR (B), THRUST	2	2						
20	1	177070-03250	COLLAR (B), THRUST			2	2				
21	1	177088-03272	NUT	2	2	2	2				
22	1	177088-03552	COUPLING, OUTPUT	1	1						
23	1	177070-03550	COUPLING, OUTPUT			1	1				
24	1	24311-000180	O-RING 1A P-18.0	1	1						
25	1	24311-000210	O-RING 1A P-21.0			1	1				
26	1	177088-03520	R.BEARING07087/07204	2	2						
27	1	24141-302050	ROLLER BEARING			2	2				
28	1	177088-03290	PIN 4D-22L	1	1	1	1				
29	1	177088-03280	COLLAR 32D-45T	1	1	1	1				

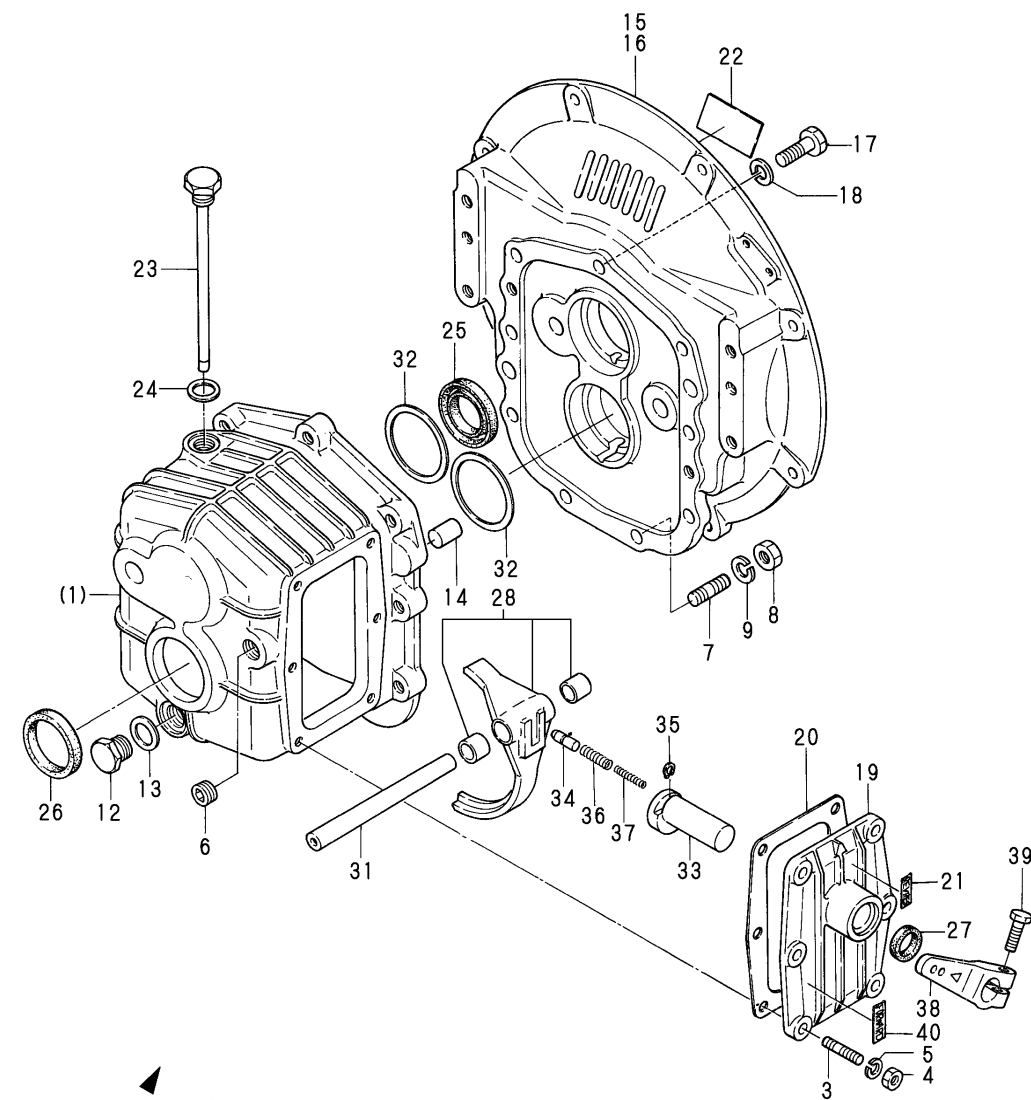
Fig.69.CONTROL DEVICE



(A)=1GM
(B)=2GM(F)
(C)=3GMF
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177095-06040	LEVER	1	1	1	1				
2	1	26116-080252	BOLT M 8X 25 PLATED	1	1	1	1				
3	1	177088-06010	SHAFT	1	1	1	1				
4	1	177095-03190	PIN	2	2	2	2				
5	1	177088-06020	SPRING	2	2	2	2				
6	1	26911-100102	SCREW M10X10	1	1	1	1				
7	1	23883-100002	PLUG 10	1	1	1	1				
8	1	23414-100000	GASKET 10, ROUND	1	1	1	1				
9	1	177088-06050	SHIFTER	1	1	1	1				
10	1	177088-06070	NEEDLE BERG. #HK3026	1	1	1	1				
11	1	177088-06090	CONNECTOR ASSY	1	1	1	1				
12	2	177088-06120	CONNECTOR	1	1	1	1				
13	2	177088-06170	SPRING, SHIFT	1	1	1	1				
14	2	177088-06140	RETAINER, SPRING	2	2	2	2				
15	2	177088-06150	CIRCLIP	1	1	1	1				
16	2	177088-06160	CIRCLIP	1	1	1	1				
17	2	177088-06110	HOLDER	1	1	1	1				
18	2	177088-06100	CONNECTOR, HOLDER	1	1	1	1				
19	2	22117-060000	WASHER 6	2	2	2	2				Z
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)							
20	2	26756-060002	LOCK NUT 6	1	1	1	1				
21	2	22417-250150	PIN 2.5* 15	1	1						Z
	(A=EXXX)	(B=EXXX)									

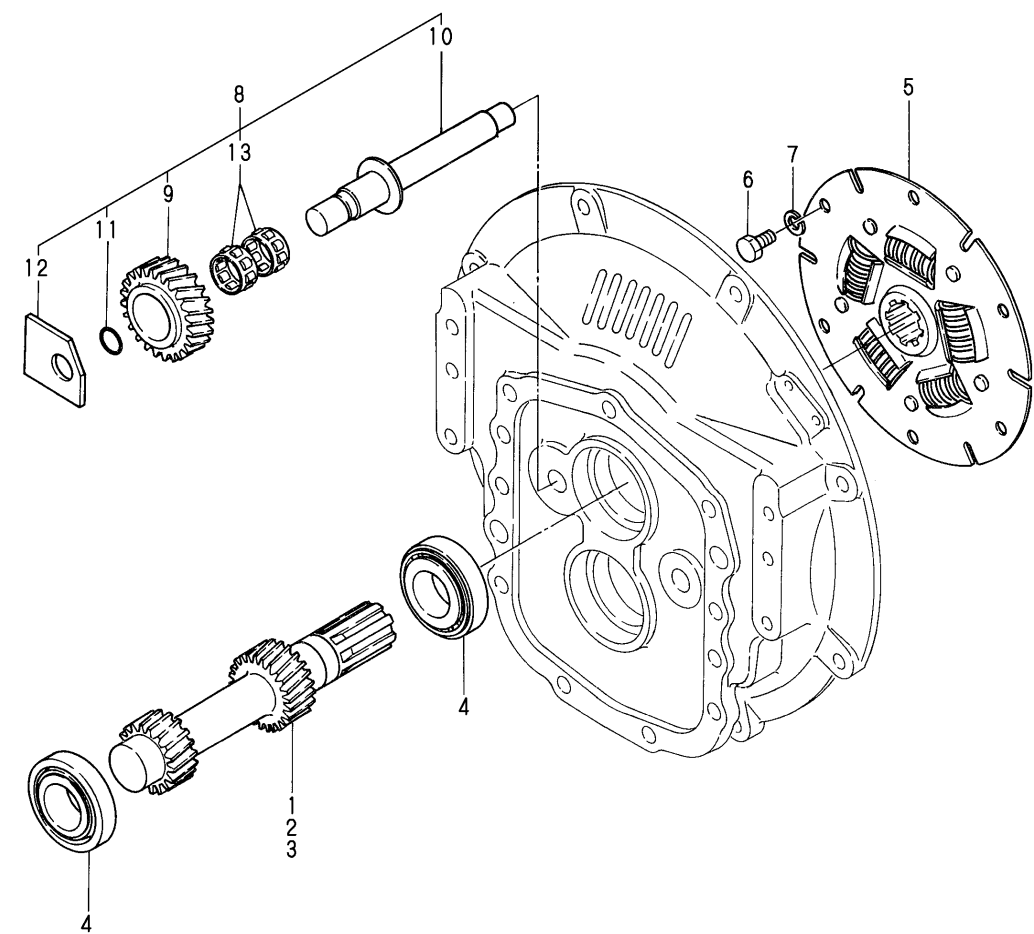
Fig.70.CLUTCH HOUSING



(A)=1GM
(B)=2GM(F)
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	777099-02550	HOUSING ASSY, CLUTCH			1		1	1		
3	2	26286-080222	STUD M 8X 22 PLATED			6		6	6		
4	2	26716-080002	NUT M 8			6		6	6		
5	2	22287-080000	LOCKING WASHER			6		6	6		
6	2	177099-06050	PLUG			1		1	1		
7	2	26223-100222	STUD M10X 22			4		4	4		
8	2	26713-100002	NUT, M10 (STENLES			4		4	4		
9	2	22133-100000	WASHER 10			4		4	4		
12	2	23883-160002	PLUG 16			1		1	1		
13	2	23414-160021	GASKET 16			1		1	1		
14	1	177099-02130	STRAIGHT PIN			2		2	2		
15	1	177094-02120	FLANGE, MOUNTING			1					
16	1	177080-02030	FLANGE, MOUNTING					1	1		
17	1	26116-100302	BOLT 10X30			5		5	5		
18	1	22287-100000	WASHER 10			5		5	5		
19	1	177099-02081	COVER, SIDE			1		1	1		
20	1	177099-02091	GASKET			1		1	1		
21	1	177090-02630	LABEL			1		1	1		
22	1	177095-02400	LABEL			1		1	1		
23	1	177099-02450	DIPSTICK W/BREATHER			1		1	1		
24	1	23414-160021	GASKET 16			1		1	1		
25	1	177099-02950	SEAL TC30 52 8, OIL			1		1	1		
26	1	177099-02960	SEAL TC40 52 8, OIL			1		1	1		
27	1	177095-02980	SEAL, OIL			1		1	1		
28	1	177099-06010	FORK ASSY, SHIFT			1		1	1		
31	1	177099-06041	SHAFT, SHIFT			1		1	1		
32	1	177099-02250	SHIM SET			2		2	2		
33	1	177095-06030	CAM, SHIFT			1		1	1		
34	1	177095-06050	PIN			1		1	1		
35	1	177095-06140	CIRCLIP			1		1	1		
36	1	177095-03200	SPRING			1		1	1		
37	1	177095-06060	SPRING			1		1	1		
38	1	177095-06040	LEVER			1		1	1		
39	1	26116-080252	BOLT M 8X 25 PLATED			1		1	1		
40	1	177090-02620	LABEL			1		1	1		

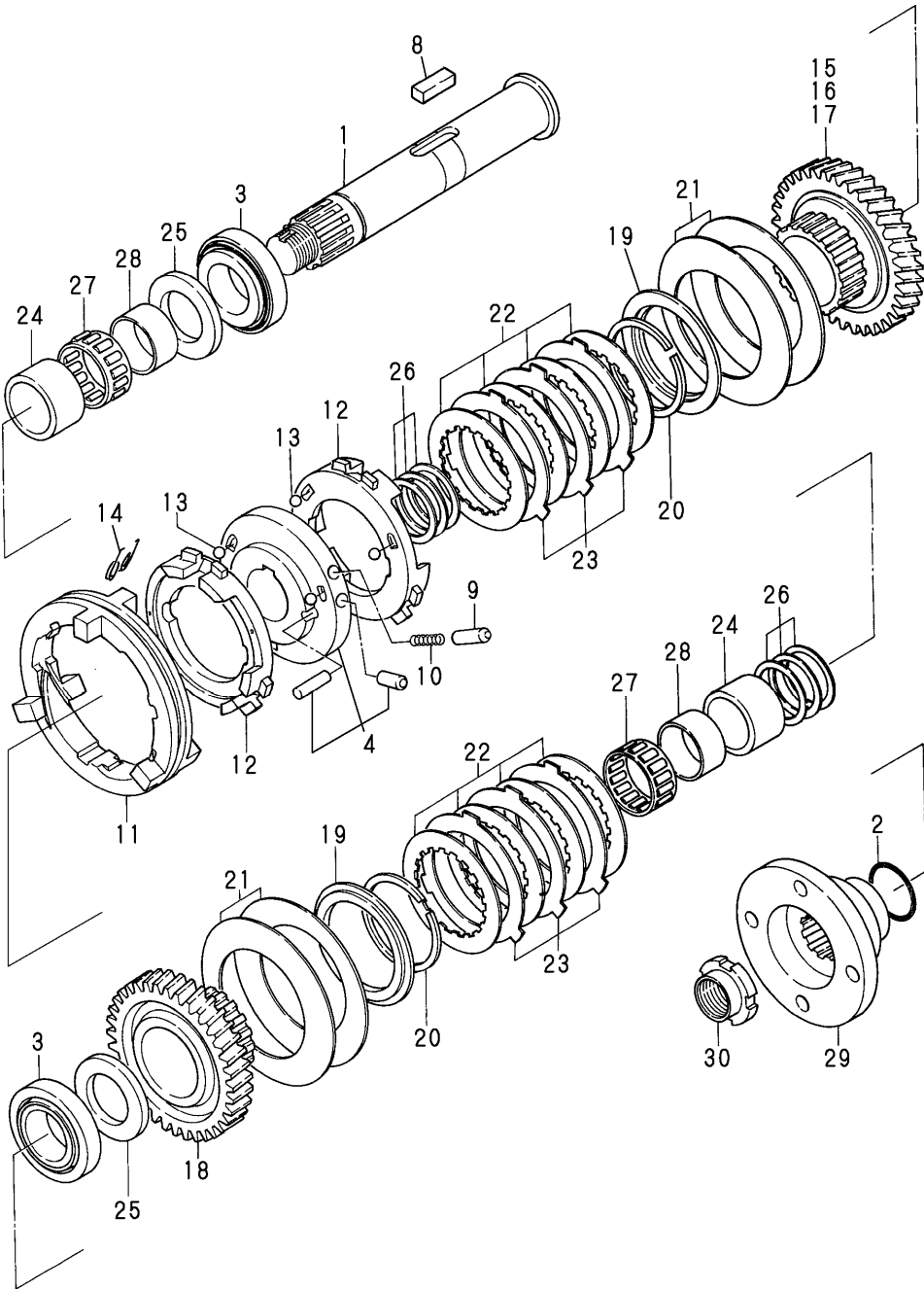
Fig.71.INPUT SHAFT & IDLE GEAR SHAFT



(A)=1GM (D)=3GMD
(B)=2GM(F) (E)=3HM
(C)=3GM (F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177099-03011	SHAFT, INPUT (I=2)			1		1	1		
2	1	177099-03380	SHAFT, INPUT I=2.63			1					
3	1	177099-03411	SHAFT, INPUT (I=3)			1		1	1		
4	1	177099-03920	ROLLER BEARING			2		2	2		
5	1	177099-03500	DISK, (NON-ASB.)			1		1	1		
6	1	26116-080142	BOLT 8X14			6		6	6		
7	1	22217-080000	SPRING WASHER 8			6		6	6		
8	1	777099-03021	SHAFT ASY, IDLE GEAR			1		1	1		
9	2	177099-03301	GEAR (Z=25), IDLE			1		1	1		
10	2	177099-03980	SHAFT			1		1	1		
11	2	24341-000150	O-RING 1A S-15.0			1		1	1		
12	2	177099-03321	WASHER, THRUST			1		1	1		
13	2	177099-03901	NEEDLE BEARING			2		2	2		

Fig.72.OUTPUT SHAFT

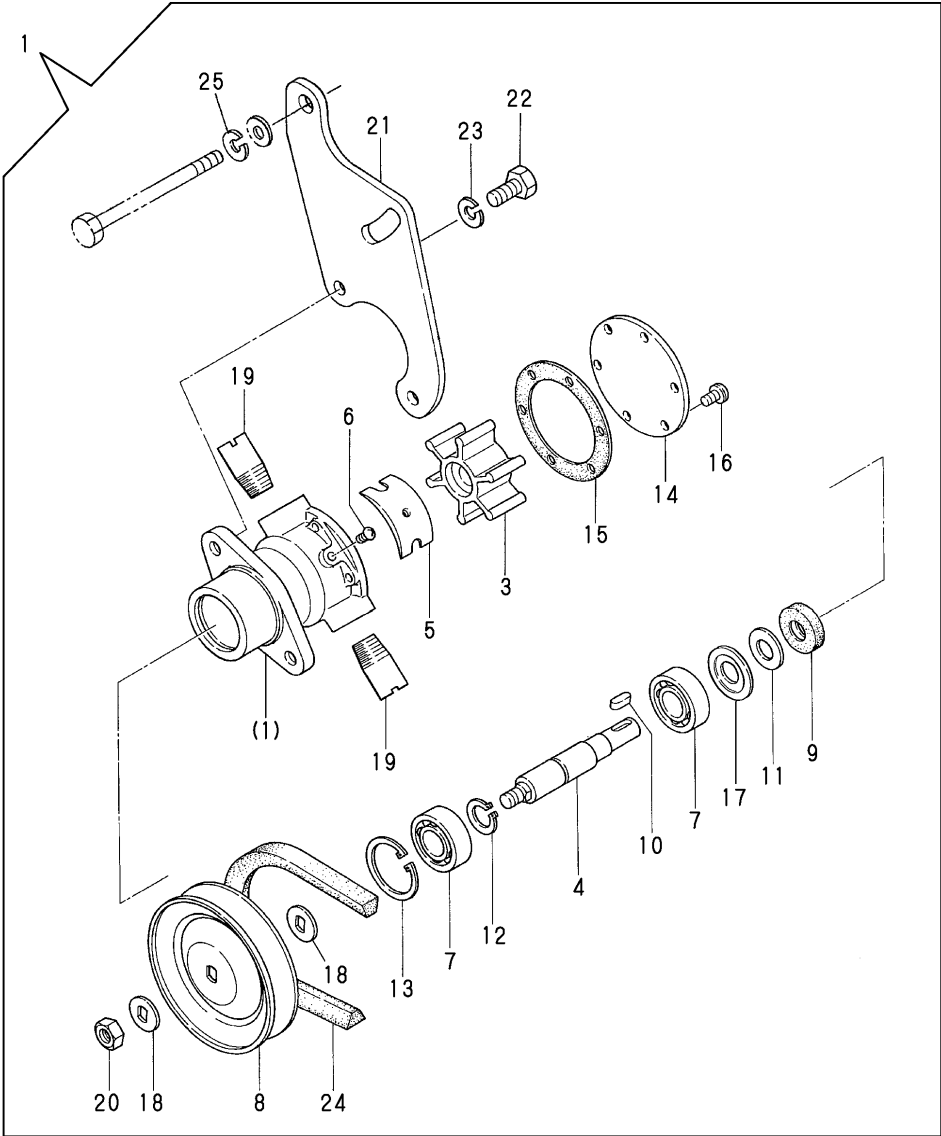


(A)=1GM
(B)=2GM(F)
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177099-03021	SHAFT, OUTPUT			1		1	1		
2	1	24341-000300	O-RING 1A S-30.0			1		1	1		
3	1	177099-03920	ROLLER BEARING			2		2	2		
4	1	177099-03040	PLATE ASSY, DRIVING			1		1	1		
8	1	177090-03230	KEY			1		1	1		
9	1	177095-03190	PIN			3		3	3		
10	1	177095-03200	SPRING			3		3	3		
11	1	177099-03070	RING, SHIFTING			1		1	1		
12	1	177099-03080	PLATE, PRESSURE			2		2	2		
13	1	177090-03180	BALL 8MM			6		6	6		
14	1	177095-03210	SPRING, RETURN			3		3	3		
15	1	177099-03101	GEAR (Z=47), FORWARD			1		1	1		
16	1	177099-03390	GEAR (Z=50), FORWARD			1					
17	1	177099-03431	GEAR (Z=51), FORWARD			1		1	1		
18	1	177099-03111	GEAR (Z=45)			1		1	1		
19	1	177090-03110	RETAINER (B)			2		2	2		
20	1	177095-03280	CIRCLIP			2		2	2		
21	1	177090-03121	SPRING			4		2	2		
22	1	177090-03080	DISC, FRICTION			8		8	8		
23	1	177090-03090	PLATE, STEEL			6		6	6		
24	1	177099-03161	SPACER			2		2	2		
25	1	177090-03270	WASHER, THRUST			2		2	2		
26	1	177095-03800	SHIM SET			2		2	2		
27	1	177095-03900	ROLLER BEARING			2		2	2		
28	1	177099-03470	RACE INNER			2		2	2		
29	1	177099-03550	COUPLING, OUTPUT			1		1	1		
30	1	177099-03540	LOCK NUT			1		1	1		

Fig.73.COOLING SEA WATER PUMP

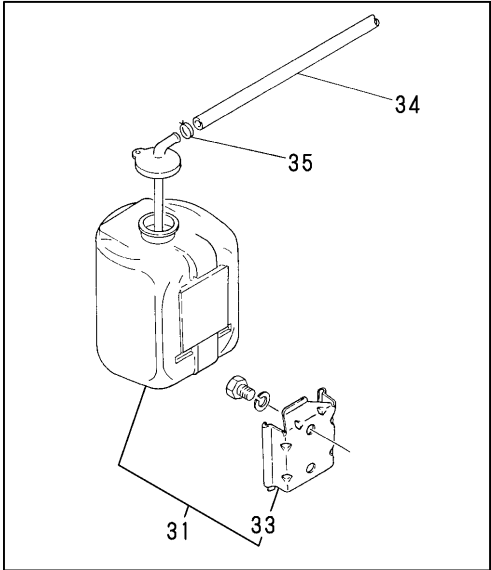
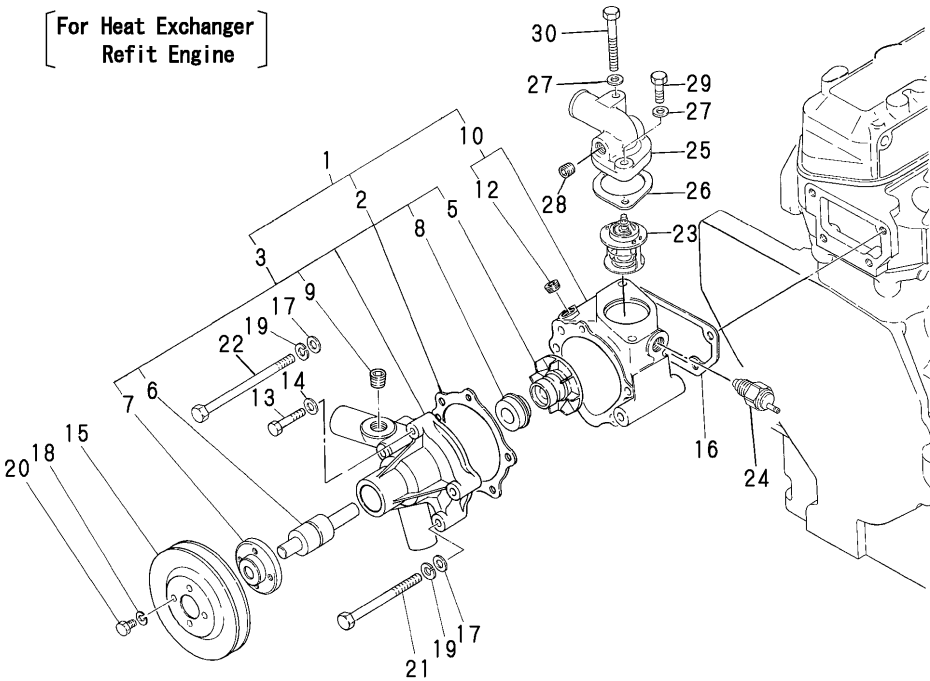
[For Heat Exchanger
Refit Engine]



(A)=1GM
(B)=2GM
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121575-42000	PUMP ASSY, C.S.W.		1	1		1			
3	2	124223-42091	IMPELLER, C. WATER		1	1		1			
4	2	121575-42020	SHAFT, IMPELLER		1	1		1			
5	2	124323-42100	CAM, IMPELLER		1	1		1			
6	2	26554-040102	SCREW M 4X 10		1	1		1			
7	2	24107-062024	BALL BEARING		2	2		2			
8	2	124070-42400	V-PULLEY, C.W. PUMP		1	1		1			
9	2	124223-42080	SEAL TC13 28 7, OIL		1	1		1			
10	2	124223-42040	KEY		1	1		1			
11	2	124223-42070	PIECE		1	1		1			
12	2	22242-000150	CIRCLIP 15		1	1		1			
13	2	22252-000350	CIRCLIP 35		1	1		1			
14	2	121575-42150	COVER		1	1		1			
15	2	124223-42110	GASKET		1	1		1			
16	2	26554-040082	SCREW M 4X 8		6	6		6			
17	2	121575-42120	COVER		1	1		1			
18	2	124070-42420	WASHER		2	2		2			
19	2	121575-49300	JOINT PT 3/8		2	2		2			
20	2	26347-080002	U-NUT 8		1	1		1			
21	1	128270-42150	BRACKET, C.W. PUMP		1	1		1			
22	1	26116-080142	BOLT 8X14		2	2		2			
23	1	22217-080000	SPRING WASHER 8		2	2		2			
24	1	104511-78780	V-BELT		1	1		1			
25	1	22217-080000	SPRING WASHER 8		2	2		2			

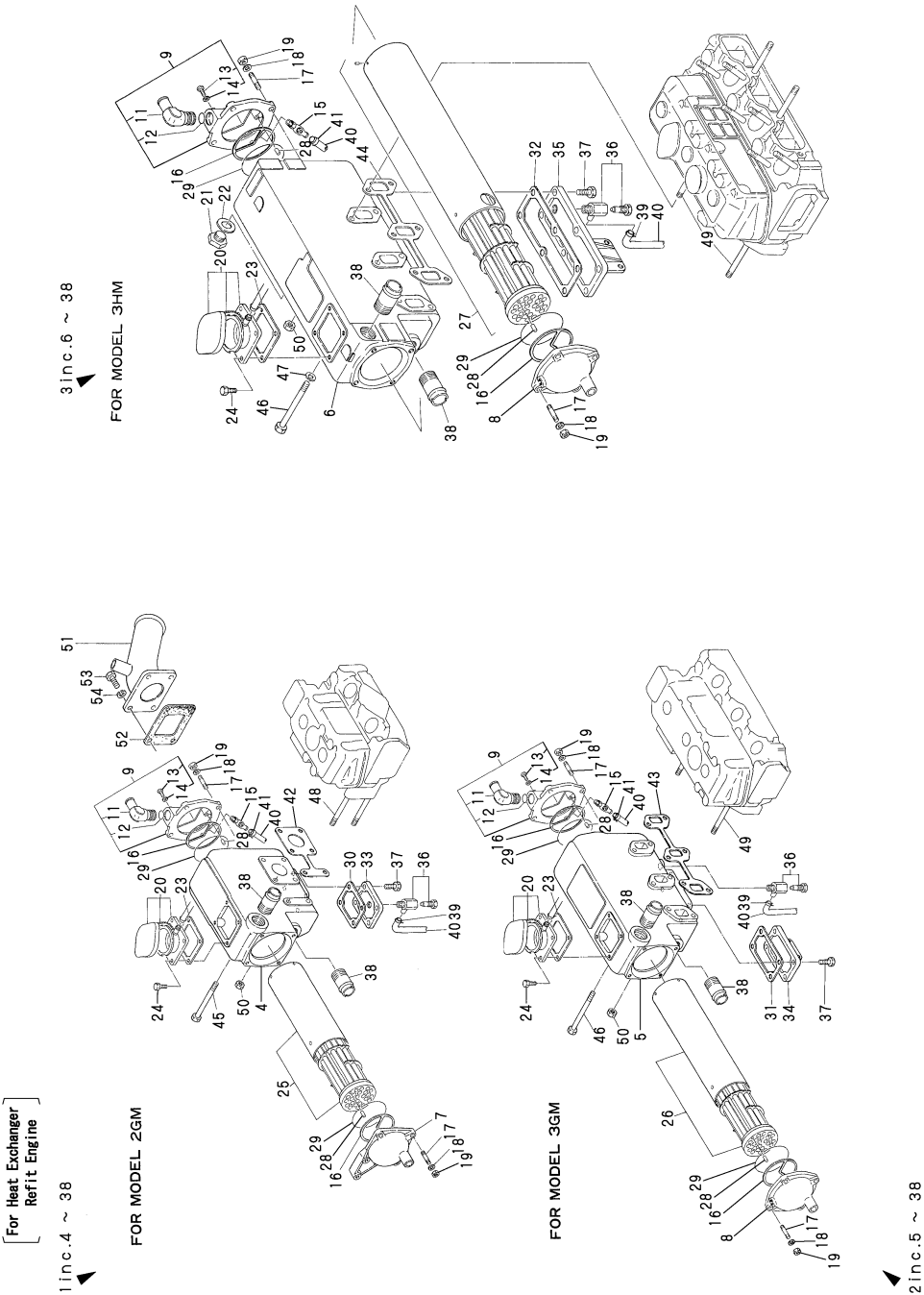
Fig.74.COOLING FRESH WATER PUMP & SUB-TANK



(A)=1GM
(B)=2GM
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128695-42010	PUMP ASSY, C.F.W.		1	1		1			
2	2	121000-42050	GASKET, BODY		1	1		1			
3	2	121000-42100	BODY ASSY, C.W.PUMP		1	1		1			
5	3	129350-42200	IMPELLER		1	1		1			
6	3	121450-42240	SHAFT, IMPELLER		1	1		1			
7	3	121450-42260	FLANGE, V-PULLEY		1	1		1			
8	3	121450-42310	SEAL, MECHANICAL		1	1		1			
9	3	23871-030000	PLUG PT3/8,SCREW		1	1		1			
10	2	728695-43500	BRACKET ASSY, PUMP		1	1		1			
12	3	23871-020000	PLUG PT1/4,SCREW		1	1		1			
13	2	26117-060352	BOLT M 6X 35		1	1		1			
14	2	22117-060000	WASHER 6		1	1		1			
15	1	128695-42350	V-PULLEY		1	1		1			
16	1	121450-44410	GASKET, BRACKET		1	1		1			
17	1	22117-080000	WASHER 8		4	4		4			
18	1	22217-060000	SPRING WASHER 6		4	4		4			
19	1	22217-080000	SPRING WASHER 8		4	4		4			
20	1	26116-060102	BOLT M 6X 10 PLATED		4	4		4			
21	1	26116-080952	BOLT M 8X 95 PLATED		4	4		4			
22	1	26116-081152	BOLT M 8X115 PLATED		4	4		4			
23	1	121750-49800	THERMOSTAT		1	1		1			
24	1	127610-91350	SWITCH, THERMO		1	1		1			
25	1	128690-49530	COVER, THERMOSTAT		1	1		1			
26	1	124736-49540	GASKET, THERMO.		1	1		1			
27	1	22137-080000	WASHER 8, POLISHED		2	2		2			
28	1	23871-030000	PLUG PT3/8,SCREW		1	1		1			
29	1	26116-080282	BOLT M 8X 28 PLATED		1	1		1			
30	1	26116-080652	BOLT M 8X 65 PLATED		1	1		1			
31	1	720445-44200	SUB RESERVOIR ASSY		1	1		1			
33	2	120445-44540	BRACKET, SUB-TANK		1	1		1			
34	1	124790-44560	PIPE, C. WATER		1	1		1			
35	1	23010-013000	CLAMP, HOSE 13		2	2		2			

Fig.75.COOLING FRESH WATER PUMP



(A)=1GM
(B)=2GM
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728290-44500	EXCHANGER ASSY, HEAT		1						
2	1	728390-44500	EXCHANGER ASSY, HEAT			1					
3	1	728695-44501	EXCHANGER ASSY, HEAT						1		
4	2	128290-44010	TANK, HEAT EXCHANGER		1						
5	2	128390-44010	TANK, HEAT EXCHANGER			1					
6	2	128695-44010	TANK, HEAT EXCHANGER						1		
7	2	128290-44050	COVER, INLET		1						
8	2	128965-44050	COVER, INLET			1		1			
9	2	728690-44710	COVER (A) ASSY, SIDE		1	1		1			
11	3	128690-49310	ELBOW		1	1		1			
12	3	24311-000160	O-RING 1A P-16.0		1	1		1			
13	3	26554-050102	SCREW M 5X 10		1	1		1			
14	3	23414-050000	GASKET 5		1	1		1			
15	2	128695-44090	COCK PT1/8		1	1		1			
16	2	128695-44070	GASKET		2	2		2			
17	2	26216-060202	STUD M 6X 20 PLATED		8	8		8			
18	2	22117-060000	WASHER 6		8	8		8			
19	2	26716-060002	NUT 6		8	8		8			
20	2	123682-44190	FILLER W/BALL		1	1		1			
21	2	23897-030002	PLUG PF3/8					1			
22	2	23414-170022	GASKET 17					1			
23	2	123672-44200	GASKET		1	1		1			
24	2	26116-060162	BOLT 6X16		4	4		4			
25	2	128290-44400	CORE ASSY, COOLER		1						
26	2	128390-44400	CORE ASSY, COOLER			1					
27	2	128695-44400	CORE ASSY, COOLER					1			
28	2	124790-44470	PIN		2	2		2			
29	2	24311-000700	O-RING 1A P-70.0		2	2		2			
30	2	121450-11680	GASKET,COVER		1						
31	2	128390-44490	GASKET			1					
32	2	120345-13160	GASKET					1			
33	2	128290-44480	COVER, TANK		1						
34	2	128390-44480	COVER, TANK			1					
35	2	128695-44480	COVER					1			
36	2	43600-500290	COCK 1/4		1	1		1			
37	2	26116-080202	BOLT M 8X 20 PLATED		4	4		6			
38	2	124160-49480	JOINT, PIPE		2	2		2			
39	1	124460-77680	RETAINER		1	1		1			
40	1	23061-070300	PIPE 7X 300		2	2		2			
41	1	124722-59050	CLAMP 9		1	1		1			
42	1	128290-13250	GASKET		1						
43	1	121450-13250	GASKET, EXH.MANIFOLD			1					
44	1	121550-13520	GASKET					1			
45	1	26116-080852	BOLT M 8X 85 PLATED		4						
46	1	26116-080902	BOLT M 8X 90 PLATED			4		4			
47	1	22217-080002	SPRING WASHER 8					4			
48	1	26216-080852	STUD M 8X 85 PLATED		2						
49	1	26216-080902	STUD M 8X 90 PLATED			2		2			
50	1	26717-080002	NUT 8		2	2		2			
51	1	128370-13530	ELBOW, MIXING		1						
52	1	128370-13200	GASKET		1						
53	1	26113-080202	BOLT M8X 20 (STEN		4						
54	1	22217-080000	SPRING WASHER 8		4						

Fig.76.COOLING WATER PIPE & V-BELT

(A)=1GM
(B)=2GM
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128690-49010	PIPE (B), C. WATER		1	1		1			
2	1	23000-025000	CLAMP 25		4	4		4			
3	1	121575-49310	CLAMP		1	1		1			
4	1	26116-060102	BOLT M 6X 10 PLATED		1	1					
5	1	22137-060000	WASHER 6, POLISHED		1	1					
6	1	128695-49520	PIPE (E), C. WATER		1	1		1			
7	1	128295-49530	PIPE		1	1		1			
8	1	124770-49040	PIPE, COOLING WATER		1	1		1			
9	1	128690-49510	PIPE		1	1					
10	1	128695-49530	PIPE (F), C. WATER						1		
11	1	23000-041000	CLAMP 41		6	6		6			
12	1	124160-49480	JOINT, PIPE		1	1		1			
13	1	128695-77210	COVER, GENERATOR		1	1		1			
14	1	121150-42290	V-BELT		1	1					
15	1	124251-42290	V-BELT (A-39)						1		
16	1	105311-67100	BRACKET, CABLE		1						

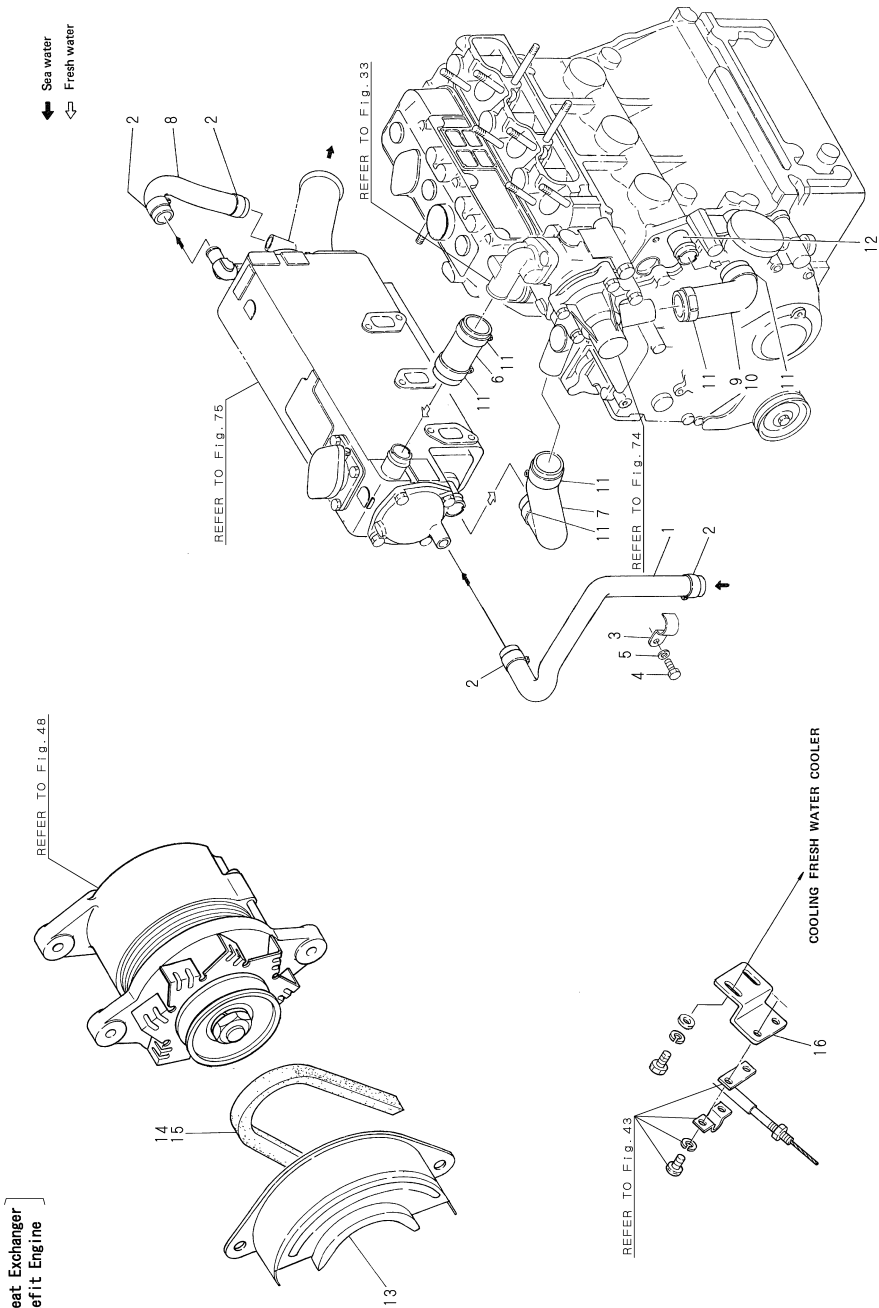
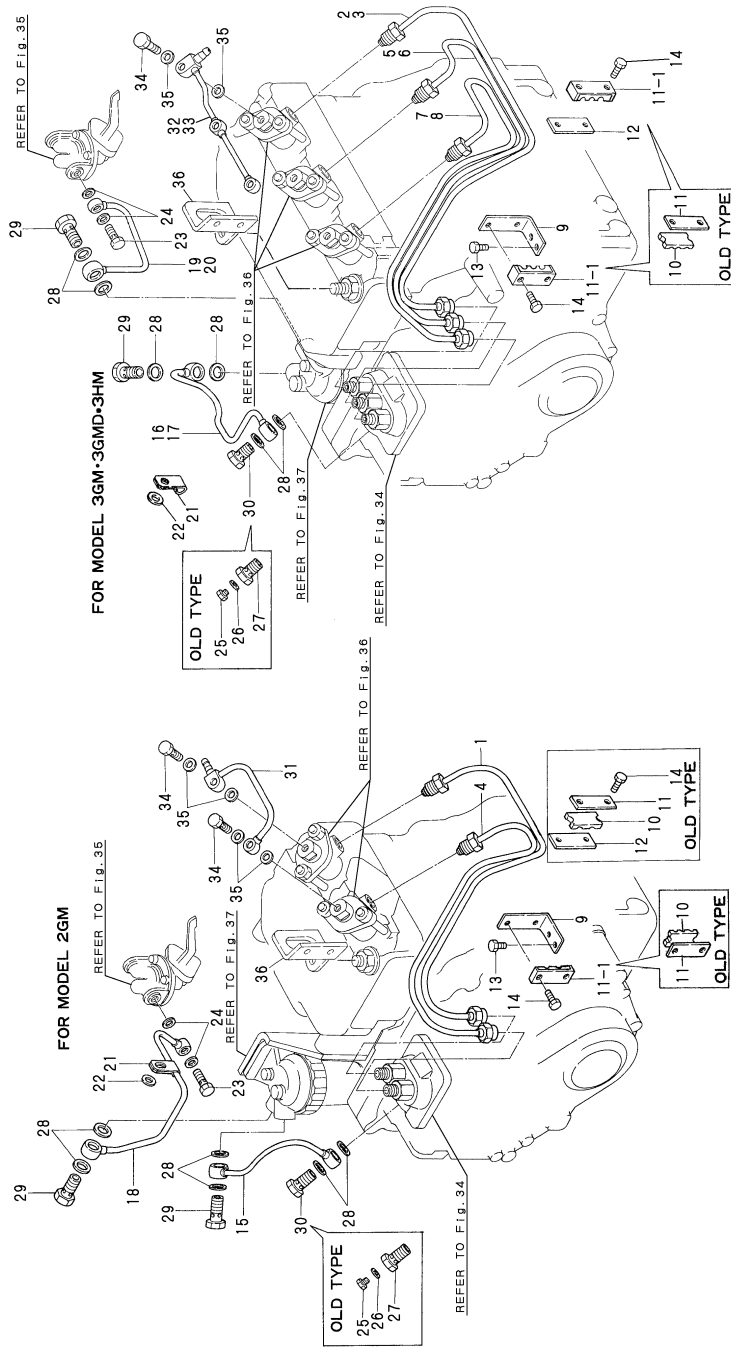


Fig.77.FUEL PIPE

[For Heat Exchanger
Refit Engine]



Y00R0902 77.FUEL PIPE

(A)=1GM
(B)=2GM
(C)=3GM
(D)=3GMD
(E)=3HM
(F)=3HMF

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128290-59810	PIPE (1), F. INJECT.		1						
2	1	128390-59810	PIPE (1), F. INJECT.			1					
3	1	128695-59810	PIPE (1), F. INJECT.						1		
4	1	128290-59820	PIPE (2), F. INJECT.		1						
5	1	128390-59820	PIPE (2), F. INJECT.			1					
6	1	128695-59820	PIPE (2), F. INJECT.						1		
7	1	128390-59830	PIPE (3), F. INJECT.			1					
8	1	128695-59830	PIPE (3), F. INJECT.						1		
9	1	121450-59850	BRACKET (A)		1	1			1		
10	1	123325-59100	RETAINER (B=*1980.11) (C=*1980.11)		2	2					Z
11	1	123325-59110	COVER		2	2					
11-1	1	123372-59100	CLAMP (B=*1980.12) (C=*1980.12)		1	2			2		R
12	1	121250-59860	RETAINER (B)		1	1			1		
13	1	26116-060102	BOLT M 6X 10 PLATED		2	2			2		
14	1	26116-060162	BOLT 6X16		4	4			4		
15	1	128290-59010	PIPE (A) ASSY, FUEL		1						
16	1	128390-59010	PIPE (A) ASSY, FUEL			1					
17	1	128690-59010	PIPE (A) ASSY, FUEL						1		
18	1	128290-59080	PIPE (B), FUEL		1						
19	1	128390-59080	PIPE, FUEL OIL			1					
20	1	128690-59080	PIPE						1		
21	1	124450-39240	RETAINER, PIPE		1	1			1		
22	1	22117-080000	WASHER 8		1	1					
23	1	105582-59150	BOLT, PIPE JOINT		1	1			1		
24	1	23414-080000	GASKET 8, ROUND		2	2			2		
25	1	124060-59380	PLUG (B=EXXX) (C=EXXX)		1	1			1		Z
26	1	180110-51910	GASKET, PLUG (B=EXXX) (C=EXXX)		1	1			1		Z
27	1	103854-59200	BOLT 12, PIPE JOINT (B=EXXX) (C=EXXX)		1	1			1		Z
28	1	23414-120000	GASKET 12, ROUND		6	6			6		
29	1	23857-060000	JOINT BOLT 6		2	2			2		
30	1	103854-59191	BOLT W/PLUG & SEAL		1	1			1		
31	1	105311-59500	PIPE, FUEL RETURN		1						
32	1	128370-59500	PIPE, FUEL RETURN			1					
33	1	121575-59500	PIPE, FUEL RETURN						1		
34	1	101147-59810	BOLT 8, PIPE JOINT		2	3			3		
35	1	23414-080000	GASKET 8, ROUND		4	6			6		
36	1	128695-07230	LIFTER, ENGINE		1	1			1		