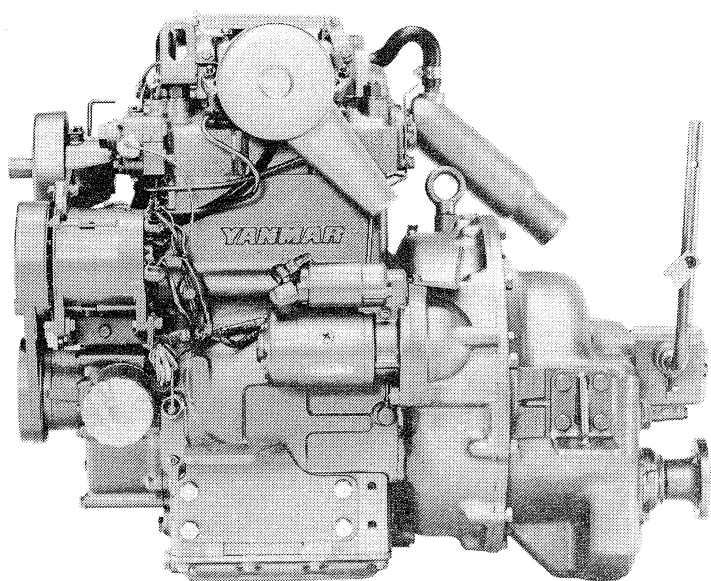


OCR10-M09109EN

Introduction

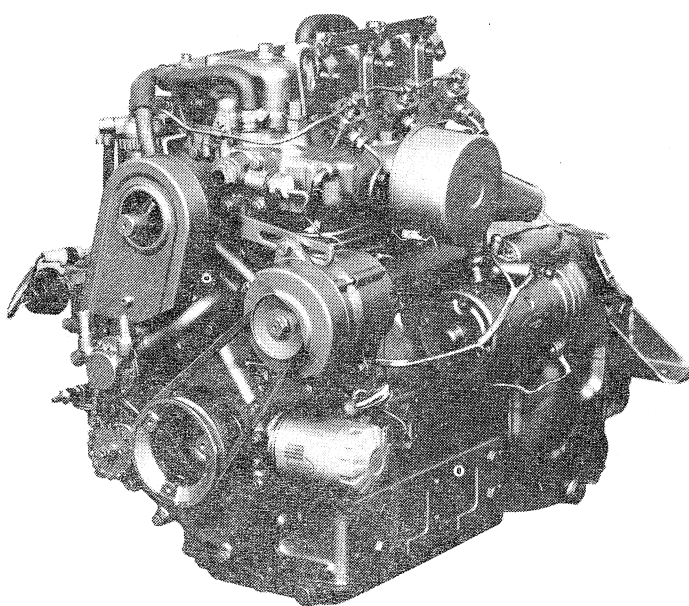
1. This is the parts catalog for 2QM20, 3QM30, 2QM, 3QM Diesel engine.
(Parts catalog No. 000Y00R0919)
2. This parts catalog does not contain the technical data needed for maintenance service.
3. The illustrations used in this parts catalog have been simplified for clarity.
4. The contents of this parts catalog are subject to change without notice.
5. Be sure to use only Yanmar genuine part for repairs. If imitation parts are used, it may cause engine defects.

Export Models (貿易用機関)



2QM20

First Published: May, 1973
First Revised: May, 1975
Second Revised: July, 1976
3rd Revised: June, 1977
4th Revised: September, 1979



3QM30

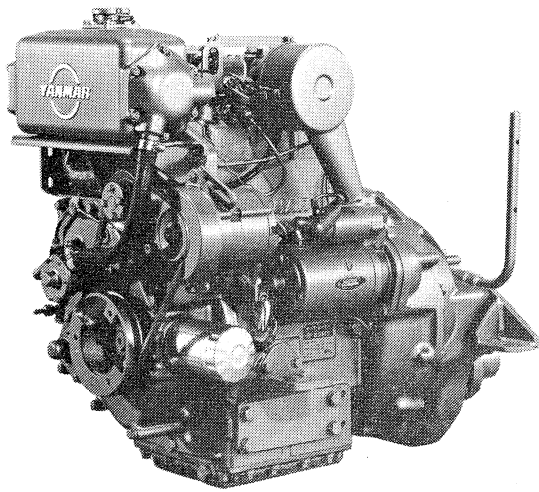
MODEL 2QM20 · 3QM30

September, 1979

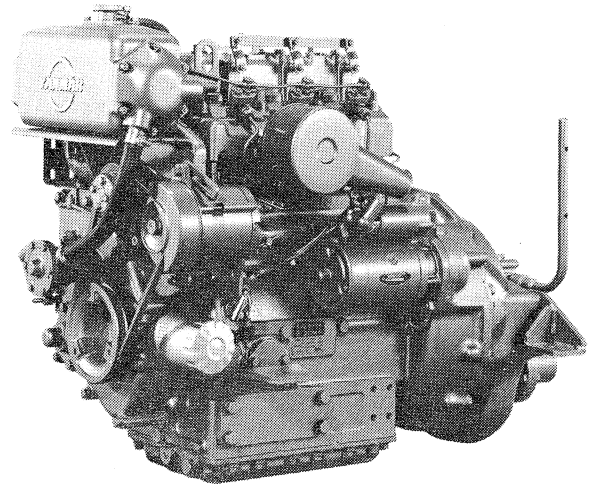
Pub. No. 000Y00R0919

国内用機関

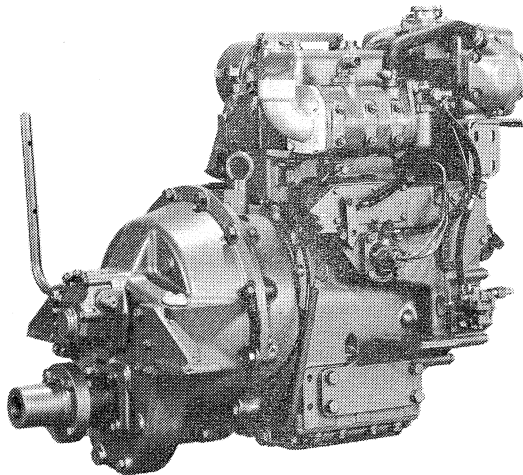
(Domestic Models)



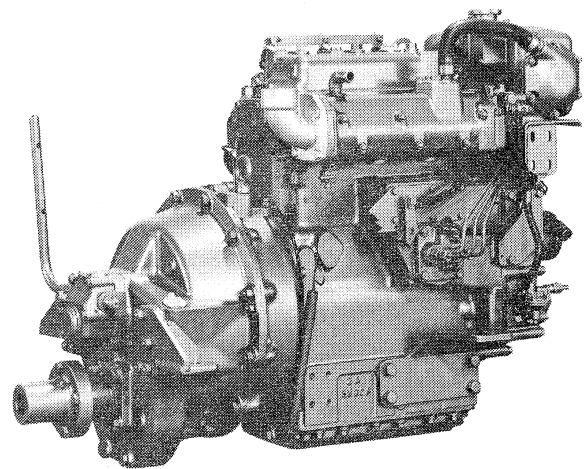
2QM



3QM



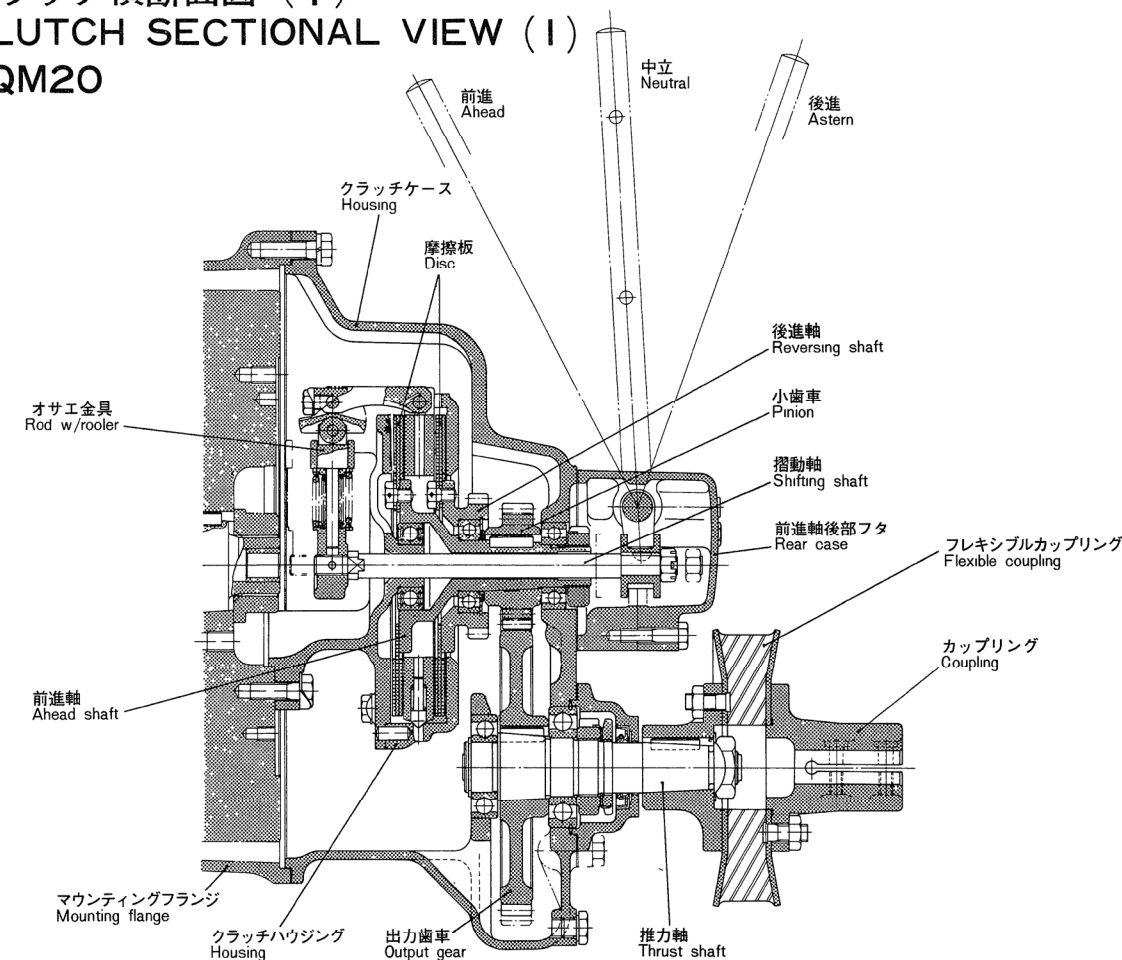
2QM



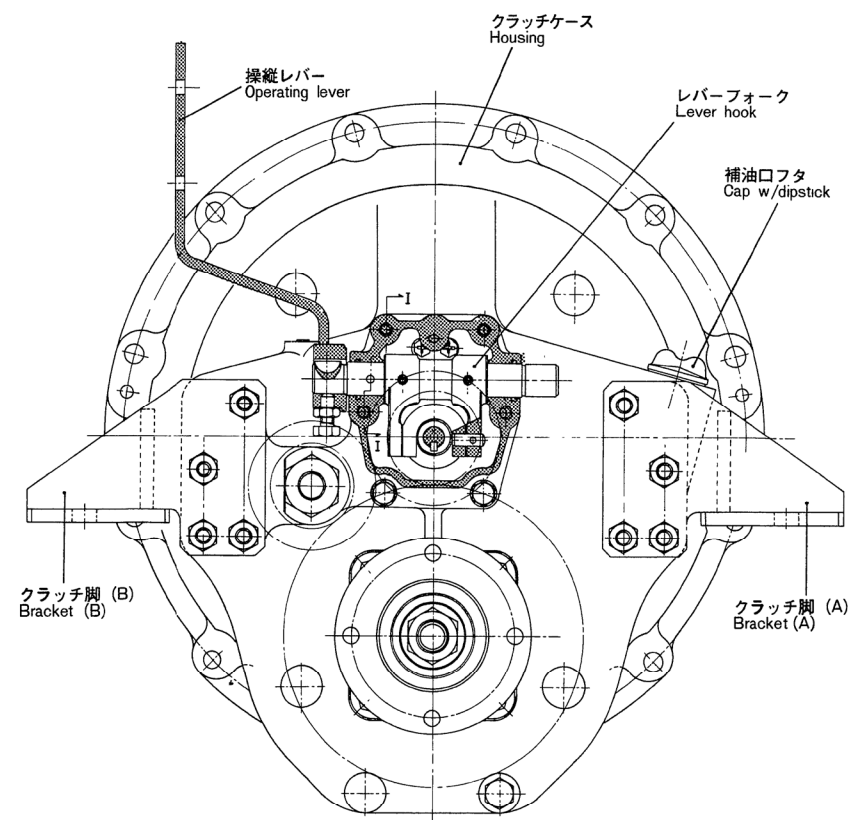
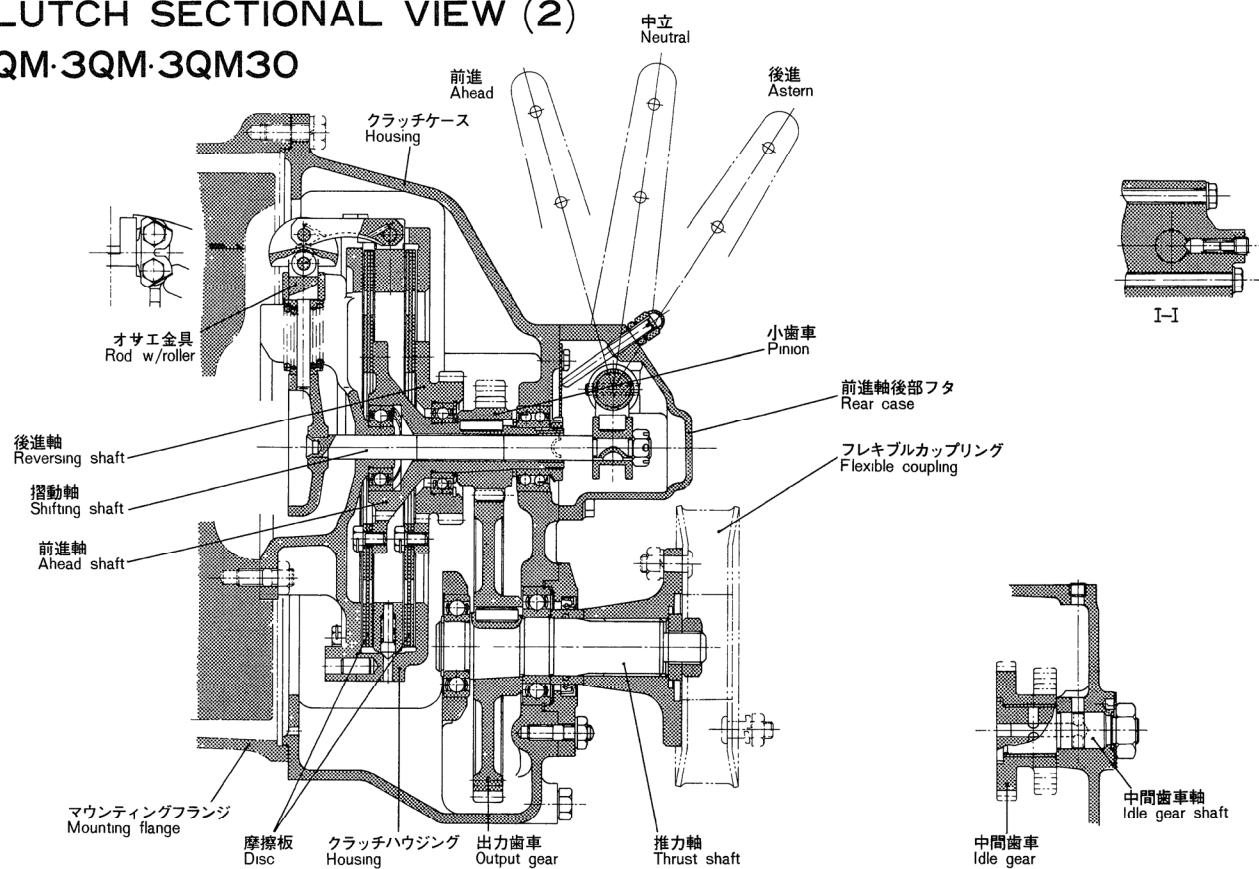
3QM

MODEL **2QM・3QM**

クラッチ横断面図 (1)
CLUTCH SECTIONAL VIEW (1)
2QM20



クラッチ横断面図 (2)
CLUTCH SECTIONAL VIEW (2)
2QM・3QM・3QM30



Contents

OCR10-M09109

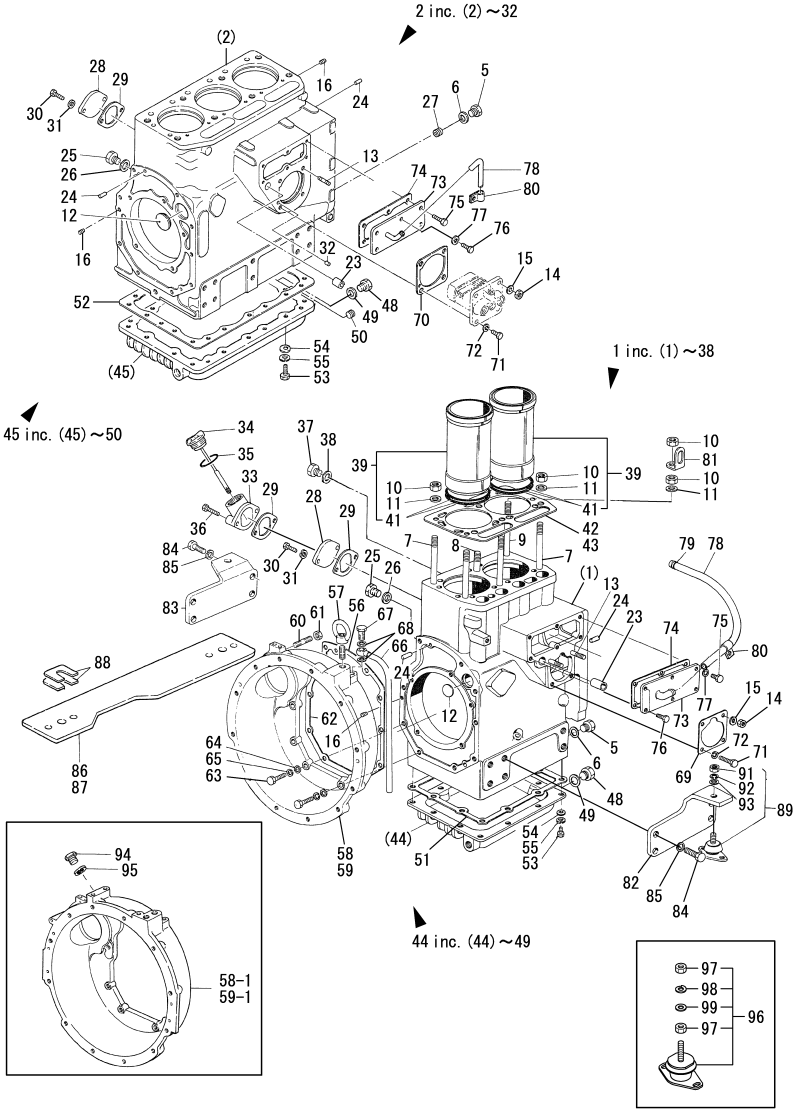
Fig. No.	Fig. Name
2QM(20)/3QM(30)	
1.	CYLINDER BLOCK
2.	GEAR HOUSING
3.	CYLINDER HEAD
4.	SILENCER & EXHAUST MANIFOLD
5.	CAMSHAFT
6.	MAIN METAL & CRANKSHAFT
7.	PISTON & CONNECTING ROD
8.	LUB.OIL SYSTEM
9.	COOLING PUMP(SEA WATER)
10.	C.S.W.PUMP & BILGE PUMP
11.	C.F.W.PUMP & C.F.W.COOLER
12.	COOLING WATER SYSTEM
13.	FUEL INJECTION PUMP
14.	FUEL INJECTION VALVE
15.	FUEL SYSTEM
16.	REMOTE-CONTROL DEVICE(OPTIONAL)
17.	GOVERNOR
18.	HAND STARTING MECHANISM
19.	STARTING MOTOR & GENERATOR
20.	INSTRUMENT PANEL
21.	INSTRUMENT PANEL
22.	CLUTCH HOUSING
23.	FRICTION DISC & AHEAD SHAFT
24.	IDLE GEAR SHAFT & THRUST SHAFT

Fig. No.	Fig. Name
25.	TOOL
26.	SPECIAL TOOL(OPTIONAL)
27.	PACKING KIT(OPTIONAL)
28.	SPAIR PART KIT
29.	REPAIR KIT FOR INSPECTION
30.	GENERATOR COMPONENT PART
31.	STARTING MOTOR COMPONENT PART(12V 1.0KW)
32.	STARTING MOTOR COMPONENT PART(12V 1.8KW)
33.	CLUTCH KBW-10A(FOR 2QM20)(OPTIONAL)
34.	CLUTCH KH-18A(FOR 3QM30)(OPTIONAL)
35.	SPECIAL TOOL(KBW-10A & KH18-A)

Fig.1. CYLINDER BLOCK

(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=



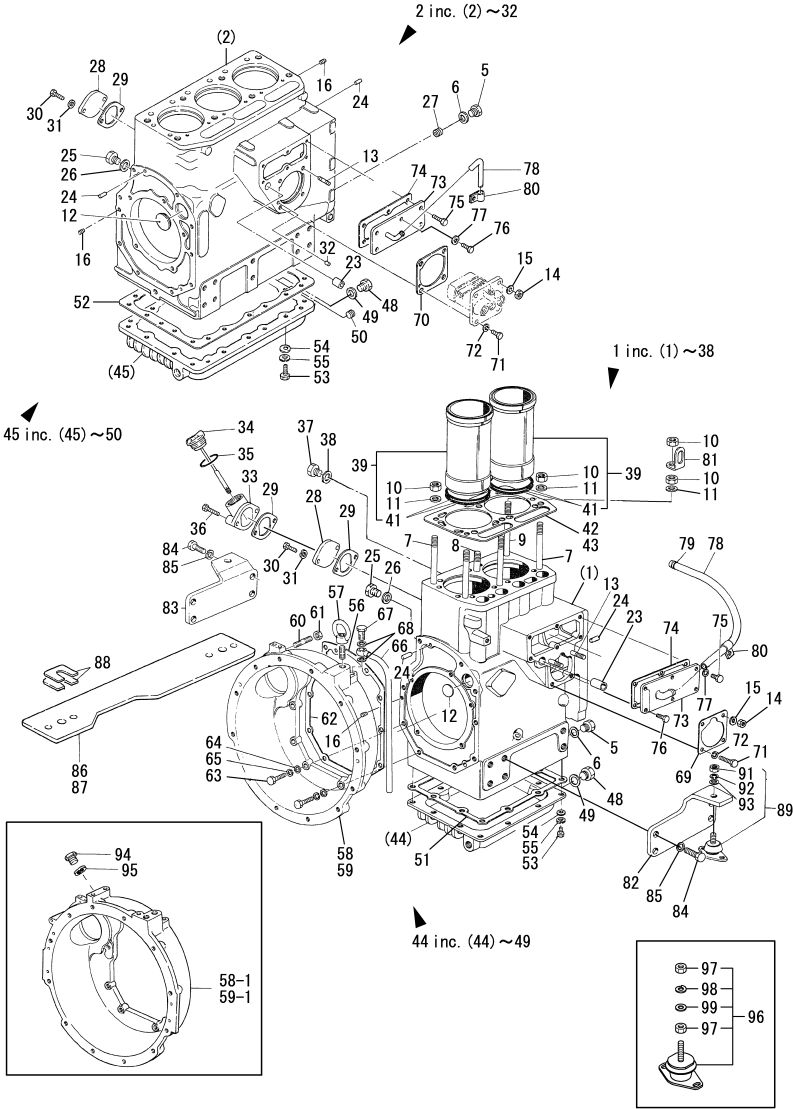
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724465-01561	BLOCK ASSY, CYLINDER	1		1					
2	2	721370-01560	BLOCK ASSY, CYLINDER		1		1				
5	2	23897-020002	PLUG G1/4	1	1	1	1				
5-1	2	124160-01910	PLUG, PT1/4	1		1				N	
		(A=*1976.11.)	(C=*1976.11.)								
6	2	23414-120000	GASKET, 12X1.0	1	1	1	1				
6-1	2	23414-120000	GASKET, 12X1.0	1		1				Z	
		(A=*1976.11.)	(C=*1976.11.)								
7	2	124450-01210	BOLT, HEAD	4	7	4	7				
8	2	124450-01220	BOLT, HEAD	1		1					
9	2	124450-01230	BOLT, HEAD	1	1	1	1				
10	2	124450-01250	NUT, CYLINDER HEAD	7	9	7	9				
11	2	124450-01240	WASHER	6	8	6	8				
12	2	27233-400000	PLUG, 40	1	1	1	1				
13	2	26216-080222	STUD, M8X 22	2	2	2	2				
14	2	26716-080002	NUT, M8	2	2	2	2				
15	2	43400-500410	SEAL WASHER 8S	2	2	2	2				
16	2	124060-01050	PLUG, PT1/8	2	2	2	2				
17	2	724465-02500	HOUSING ASSY, METAL	1		1					2
18	2	721250-02500	HOUSING ASSY, METAL		1		1				2
19	2	124460-02150	GASKET	1	1	1	1				2
20	2	26116-100252	BOLT, M10X 25 PLATED	5	5	5	5				2
21	2	22217-100000	WASHER, SPRING 10	5	5	5	5				2
22	2	121250-02100	BEARING, MAIN	1	1	1	1				2
23	2	124550-01900	BUSH	1	1	1	1				
24	2	22312-080160	PIN, PARALLEL M8X16	4	4	4	4				
25	2	23883-100002	PLUG, 10	1	3	1	3				
26	2	121250-01990	GASKET	1	3	1	3				
27	2	124160-01910	PLUG, PT1/4		1		1				
28	2	124772-01400	COVER, CRANK CASE	1	1	1	1				
29	2	124160-34844	GASKET	1	1	1	1				
30	2	26116-080162	BOLT, M8X 16 PLATED	2	2	2	2				
31	2	22217-080000	WASHER, SPRING 8	2	2	2	2				
32	2	22312-040100	PARALLEL PIN 4X10		1		1				
33	2	121250-01522	FLANGE	1		1					1
34	2	121250-01791	COVER ASSY	1		1					1
35	2	24321-000350	O-RING, 1AG35.0	1		1					1
36	2	26116-080352	BOLT, M8X 35 PLATED	2		2					1
37	2	124450-01960	PLUG, DRAIN	1		1					1
38	2	124450-01980	GASKET	1		1					1
39	1	724770-01900	LINER ASSY, CYLINDER	2		2					
39-1	1	724770-01901	LINER ASSY, CYLINDER	2		2				F	4
		(A=*1983.08.)	(C=*1983.08.)								
39A	1	724770-01900	LINER ASSY, CYLINDER		3		3				
39A-1	1	724770-01901	LINER ASSY, CYLINDER		3		3			F	5
		(B=*1983.08.)	(D=*1983.08.)								
41	2	124550-01300	GASKET, LINER	4	6	4	6				
42	1	124750-01331	GASKET, HEAD	1		1					
42-1	1	124772-01330	GASKET, HEAD	1		1				N	
		(A=*1976.12)	(C=*1976.12)								
42-2	1	124772-01340	GASKET, HEAD	1		1				F	4
N:Old Yes New, Q:Old No New, R:Old Yes New, S:Old No New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change											
++ CONTINUE ++											
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Remarks
(1)Cylinder block assy for 2QM or 2QM20 contains the above-mentioned part from No.33 up to No.38 as extras in order to make the assy interchgeable with cylinder block assy of TORACTOR. Thus, pay much attention to this regard at the time of repairing or reassembly. Please be sure to remove.
(2)Refer to Fig.6 for illustration.
(3)Optional parts(Selective parts).
(4)No.39-1 & 42-2 interchangeable by set.
(5)No.39A-1 & 43-2 interchangeable by set.

OCR10-M09109 2QM(20)/3QM(30)
Fig.1. CYLINDER BLOCK

(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=



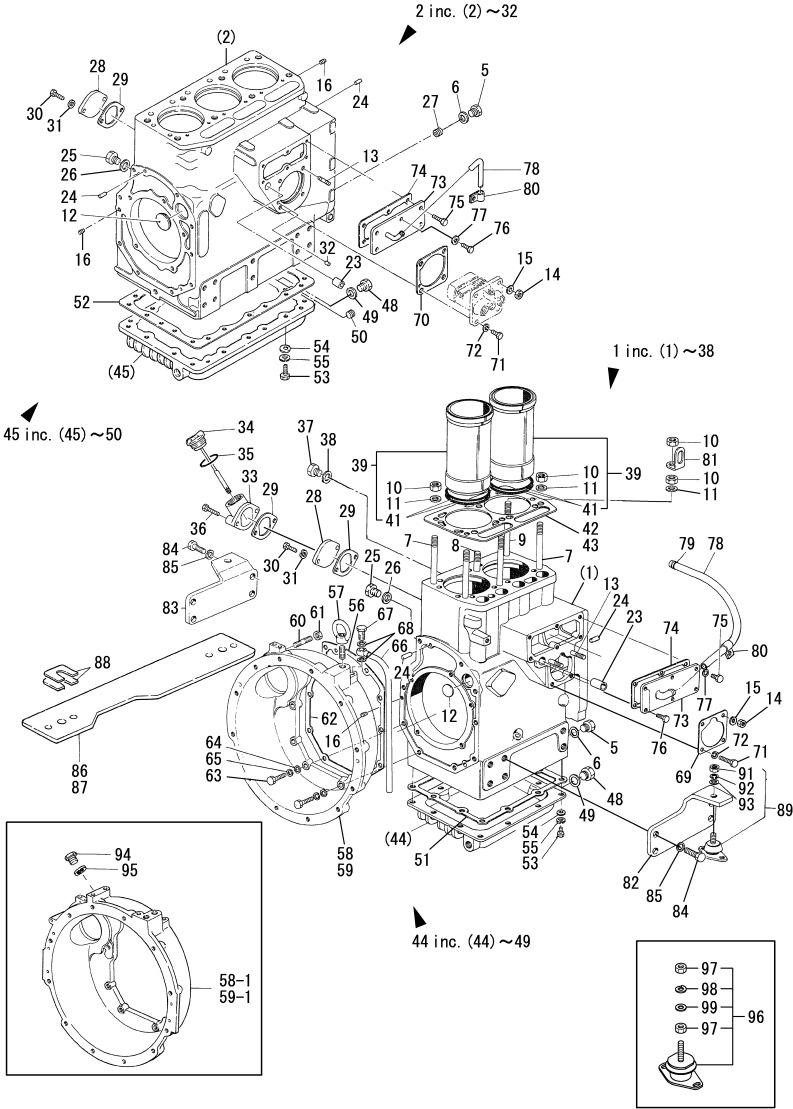
				(A)=2QM20 (B)=3QM30 (C)=2QM				(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I R
(A=*1983.08.) (C=*1983.08.)										
43	1	121370-01330	GASKET, HEAD		1		1			
43-1	1	121370-01331	GASKET, HEAD		1		1			N
(B=*1976.12) (D=*1976.12)										
43-2	1	121370-01340	GASKET, HEAD		1		1			F 5
(B=*1983.08.) (D=*1983.08.)										
44	1	724772-01540	SUMP ASSY, OIL	1		1				
45	1	721370-01540	SUMP ASSY, OIL		1		1			
48	2	23883-160002	PLUG, 16	1	1	1	1			
49	2	23414-160000	GASKET, 16X1.0	1	1	1	1			
50	2	23873-020000	PLUG, R02		1		1			
51	1	124465-01751	GASKET	1		1				
52	1	121250-01751	GASKET, OIL SUMP		1		1			
53	1	26113-080302	BOLT M 8X 30	16	20	16	20			
54	1	22113-080000	WASHER, 8	16	20	16	20			
55	1	189040-01860	SPRING WASHER 8	16	20	16	20			
56	1	124770-07210	BOLT, LIFTING	1	1	1	1			
57	1	26620-120002	NUT, EYE M12	1	1	1	1			
58	1	124772-01600	FLANGE, MOUNTING	1						
58-1	1	124790-01601	FLANGE, MOUNTING	1						S
(A=E84249)										
59	1	124790-01600	FLANGE, MOUNTING		1	1	1			
59-1	1	124790-01601	FLANGE, MOUNTING		1	1	1			N
(B=E81052) (C=E81097) (D=E81061)										
60	1	26226-120252	STUD, M12X 25	2	2	2	2			
61	1	26716-120002	NUT, M12	2	2	2	2			
62	1	124772-01610	GASKET	1	1	1	1			
63	1	26116-100382	BOLT M10X 38 PLATED	9	9	9	9			
64	1	22137-100000	WASHER, 10	9	9	9	9			
65	1	22217-100000	WASHER, SPRING 10	9	9	9	9			
66	1	124770-03200	PIPE ASSY, BREATHER	1	1	1	1			
67	1	101147-59810	BOLT, PIPE JOINT M8	1	1	1	1			
68	1	23414-080000	GASKET, 8X1.0	2	2	2	2			
69	1	124550-51950	SHIM SET, ADJUSTING	1		1				
69-1	1	124550-51951	SHIM SET, ADJUSTING	1		1				N
(A=*1978.06.) (C=*1978.06.)										
70	1	121250-01950	SHIM		1		1			
70-1	1	121250-01951	SHIM SET, ADJUSTING		1		1			N
(B=*1978.06.) (D=*1978.06.)										
71	1	26116-080222	BOLT, M8X 22 PLATED	2	2	2	2			
72	1	22217-080000	WASHER, SPRING 8	2	2	2	2			
73	1	121250-01850	COVER	1	1	1	1			
74	1	124160-01863	GASKET	1	1	1	1			
75	1	26116-060122	BOLT, M6X 12 PLATED	4	4	4	4			
76	1	26116-060162	BOLT, M6X 16 PLATED	2	2	2	2			
77	1	22137-060000	WASHER, 6	4	4	4	4			
78	1	23065-090620	PIPE, 9X 620	1	1	1	1			
78-1	1	124772-03100	PIPE , BREATHER	1	1	1	1			N
(A=*1976.12.) (B=*1976.12.) (C=*1976.12.) (D=*1976.12.)										
79	1	124223-49750	CLIP, HOSE 13	1	1	1	1			
79-1	1	124766-59050	CLAMP, HOSE 11.5	1	1	1	1			N

Remarks
(1)Cylinder block assy for 2QM or 2QM20 contains the above-mentioned part from No.33 up to No.38 as extras in order to make the assy interchgeable with cylinder block assy of TORACTOR. Thus, pay much attention to this regard at the time of repairing or reassembly. Please be sure to remove.
(2)Refer to Fig.6 for illustration.
(3)Optional parts(Selective parts).
(4)No.39-1 & 42-2 interchangeable by set.
(5)No.39A-1 & 43-2 interchangeable by set.

OCR10-M09109 2QM(20)/3QM(30)
Fig.1. CYLINDER BLOCK

(A)=2QM20
(B)=3QM30
(C)=2QM

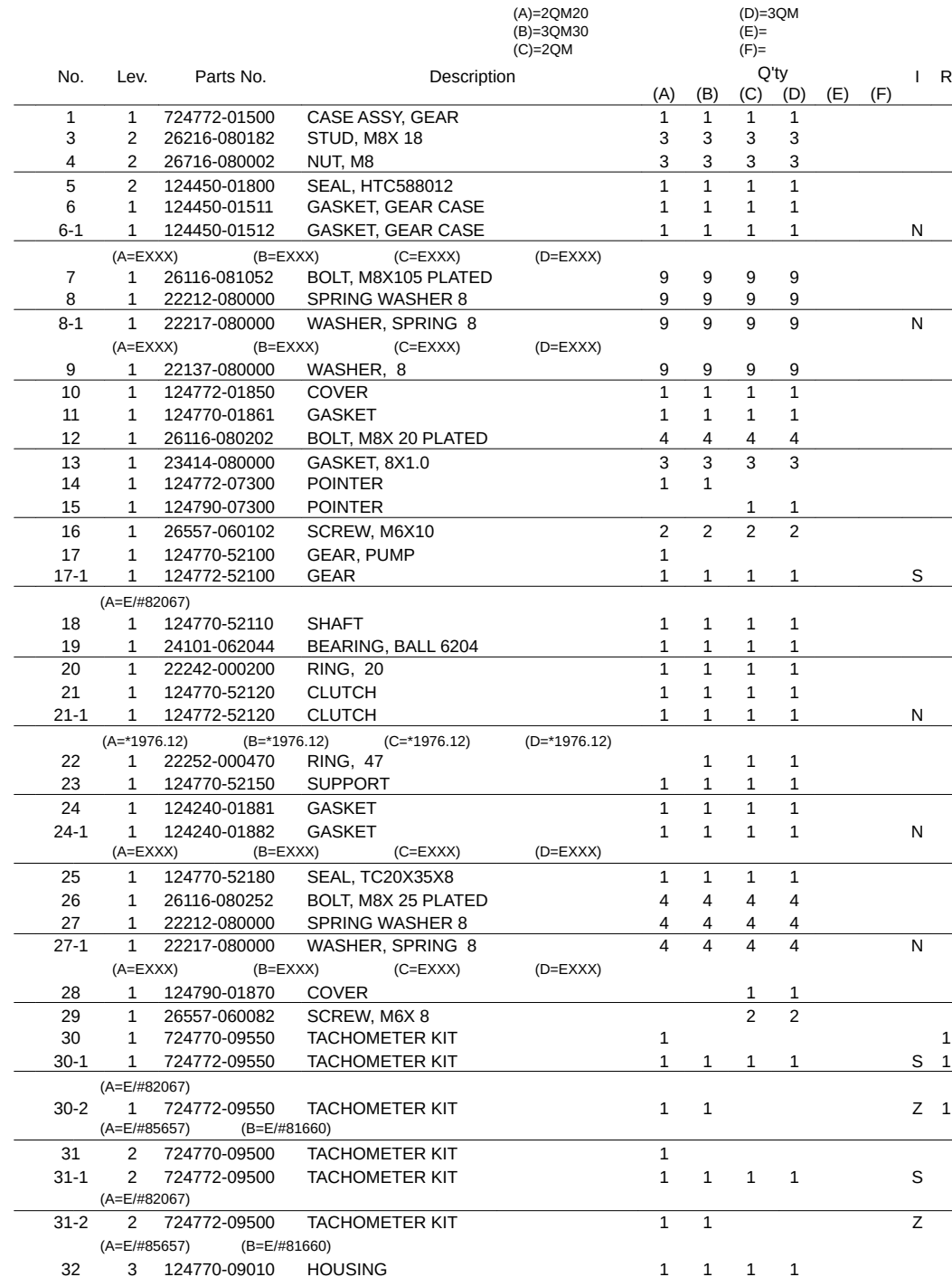
(D)=3QM
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
80	(A)=*1976.12.)	(B)=*1976.12.)	(C)=*1976.12.)	(D)=*1976.12.)							
	1	124250-01650	RETAINER	1	1	1	1				Z
	(A)=*1976.12.)	(B)=*1976.12.)	(C)=*1976.12.)	(D)=*1976.12.)							
81	1	124770-07230	LIFTER	1	1	1	1				
81-1	1	124070-07230	LIFTER	1	1	1	1				N
	(A=E85335)	(B=E81577)	(C=E81899)	(D=E81809)							
82	1	124770-08110	FOOT, MOUNTING	1	1	1	1				
83	1	124770-08120	FOOT, MOUNTING	1	1	1	1				
84	1	26116-120302	BOLT, M12X 30 PLATED	8	8	8	8				
85	1	22217-120000	WASHER, SPRING 12	8	8	8	8				
86	1	124790-08120	PLATE			2					
87	1	121390-08120	PLATE				2				
88	1	124223-92800	SHIM SET, ADJUSTING			1	1				
89	1	124770-08340	ABSORBER, SHOCK 80	4	4	4	4				3
91	2	124770-08910	NUT, M12	4	4	4	4				
92	2	22217-120000	WASHER, SPRING 12	4	4	4	4				
93	2	22137-120000	WASHER, 12	4	4	4	4				
94	1	23883-180000	PLUG M18	1	1						W
	(A=E85658)	(B=E81661)									
95	1	23414-180023	GASKET, 18X1.0	1	1						W
	(A=E85658)	(B=E81661)									
96	1	121370-08340	MOUNT, FLEXIBLE	4	4	4	4				3
97	2	124770-08910	NUT, M12	8	8	8	8				
98	2	22217-120000	WASHER, SPRING 12	4	4	4	4				
99	2	22117-120000	WASHER, 12	4	4	4	4				

Remarks
(1)Cylinder block assy for 2QM or 2QM20 contains the above-mentioned part from No.33 up to No.38 as extras in order to make the assy interchangeable with cylinder block assy of TORACTOR. Thus, pay much attention to this regard at the time of repairing or reassembly. Please be sure to remove.
(2)Refer to Fig.6 for illustration.
(3)Optional parts(Selective parts).
(4)No.39-1 & 42-2 interchangeable by set.
(5)No.39A-1 & 43-2 interchangeable by set.

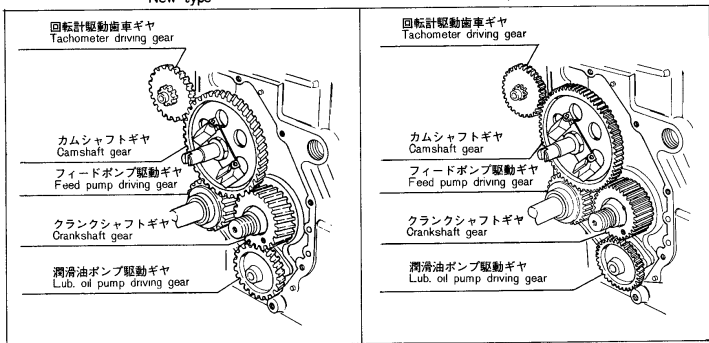
Fig.2. GEAR HOUSING



Remarks
(1)OPTIONAL
(2)REFER TO FIG.20 FOR ILLUSTRATED.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.2. GEAR HOUSING



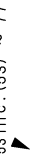
				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
33	3	122410-61670	SEAL, VC10X20X5	1	1	1	1				
34	3	124770-09250	UNION	1	1	1	1				
35	3	23871-020000	PLUG, R02	1	1	1	1				
35-1	3	23872-020000	PLUG PT1/4,SCREW	1	1	1	1			N	
36	3	124770-09100	SHAFT, DRIVE	1	1	1	1				
37	3	124770-09150	GEAR	1							
37-1	3	124772-09150	GEAR ASSY	1	1	1	1			S	
(A=E/#82067)											
38	3	124770-09200	SHAFT, OUTPUT	1	1	1	1				
39	3	124770-09140	GEAR	1	1	1	1				
40	3	22351-030020	PIN, SPRING 3.0X20	2	2	2	2				
41	2	26226-080652	STUD, M8X 65	2	2	2	2				
42	2	26226-080502	STUD, M8X 50	2	2	2	2				
43	2	26716-080002	NUT, M8	4	4	4	4				
44	2	22212-080000	SPRING WASHER 8	4	4	4	4				
44-1	2	22217-080000	WASHER, SPRING 8	4	4	4	4			N	
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											
45	2	22137-080000	WASHER, 8	4	4	4	4				
46	2	124770-91100	TACHOMETER	1	1	1	1				2
47	2	124770-91160	SENSOR	1	1	1	1				2
47-1	2	124770-91161	SENSOR	1	1	1	1			N	2
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											

Remarks
(1)OPTIONAL
(2)REFER TO FIG.20 FOR ILLUSTRATED.

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

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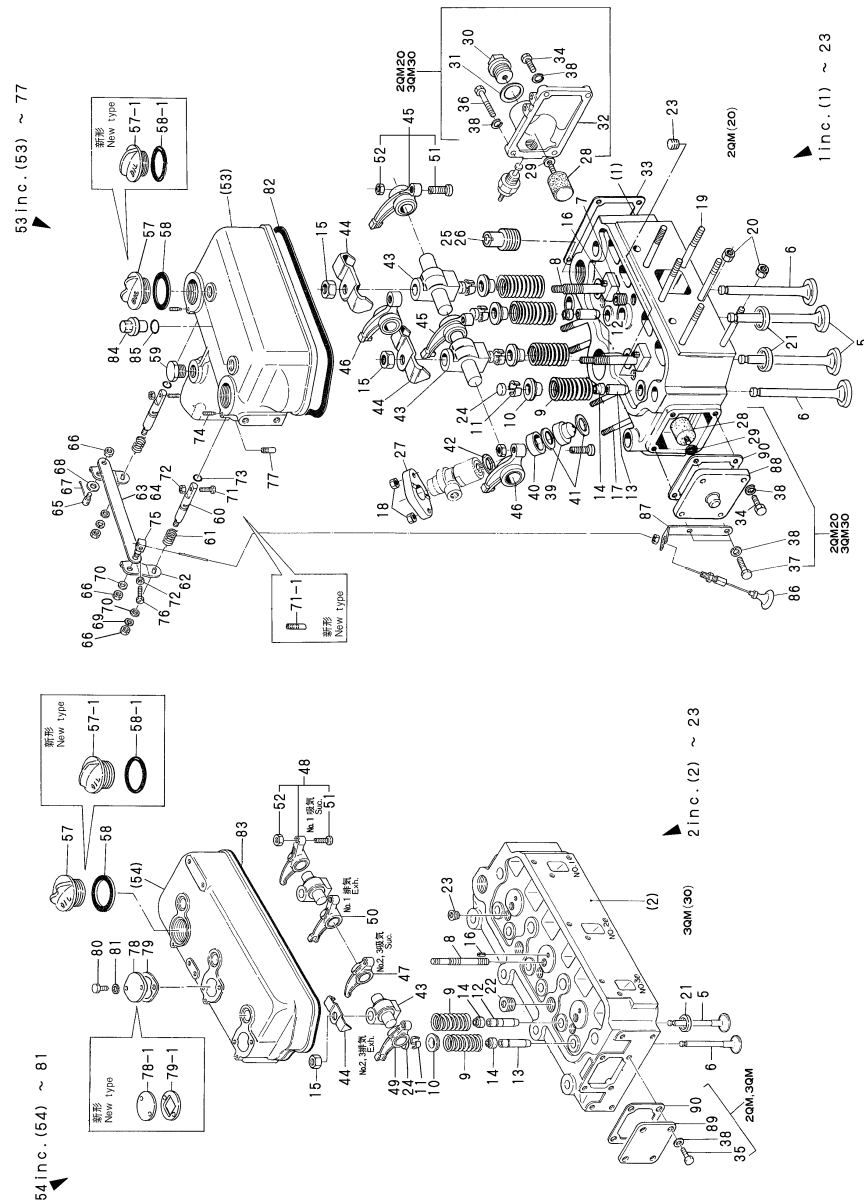
Fig.3. CYLINDER HEAD



54inc. (54) ~ 81

Remarks
(1)INC.55 & 56.
(2)OPTIONAL
(3)2QM & 3QM:OPTIONAL
2QM20 & 3QM30:STANDARD EQUIPPED

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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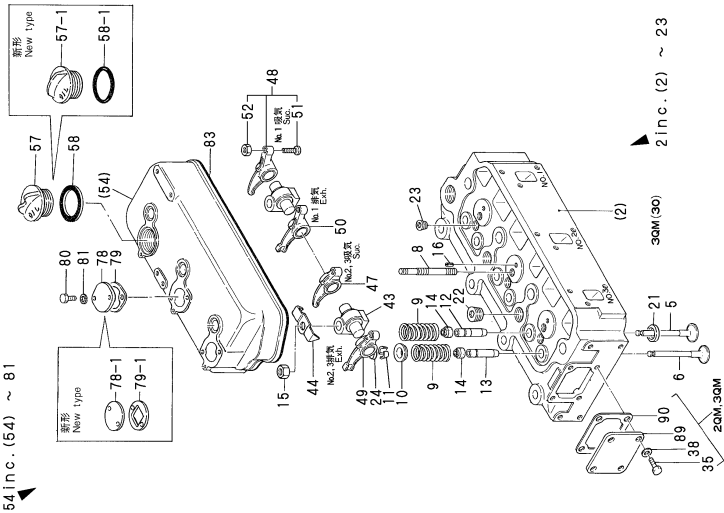
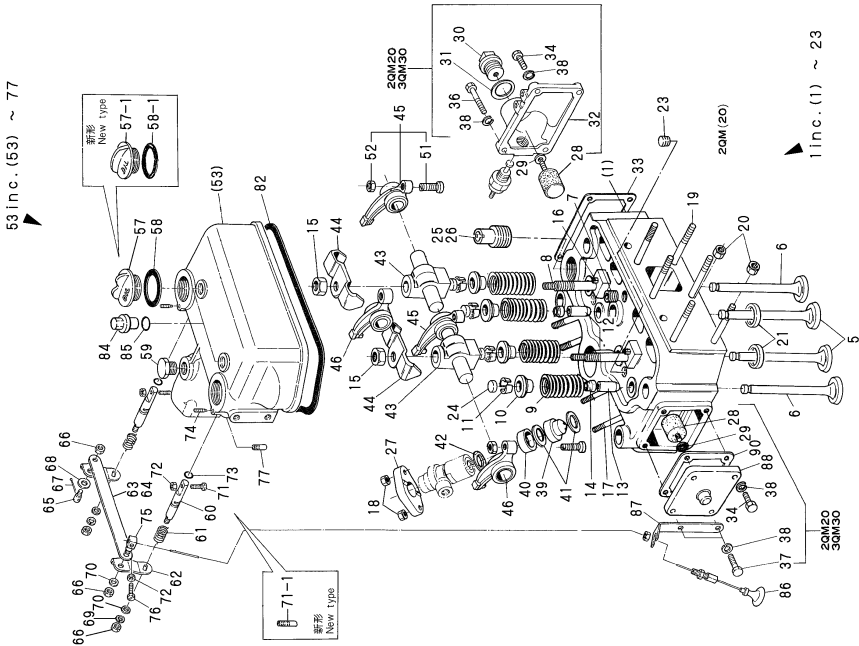
Remarks
(1)INC.55 & 56.
(2)OPTIONAL
(3)2QM & 3QM:OPTIONAL
2QM20 & 3QM30:STANDARD EQUIPPED

				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R		
47	1	721250-11650	ARM ASSY, ROCKER		2		2				1		
48	1	721250-11680	ARM ASSY, ROCKER		1		1				1		
49	1	721250-11660	ARM ASSY, ROCKER		2		2				1		
50	1	721250-11670	ARM ASSY, ROCKER		1		1				1		
51	2	101158-11230	SCREW, VALVE ADJUST	4	6	4	6						
52	2	26756-080002	NUT, LOCK M8	4	6	4	6						
53	1	724772-11520	BONNET ASSY, HEAD	1		1							
53-1	1	724772-11521	BONNET ASSY, HEAD	1		1				N			
		(A=E/#84766)	(C=E/#81551)										
54	1	721370-11520	BONNET ASSY, HEAD		1		1						
54-1	1	721370-11521	BONNET ASSY, HEAD		1		1			N			
		(B=E/#81446)	(D=E/#81621)										
57	2	101104-01750	COVER, FILLER	2	1	2	1						
57-1	2	124160-01750	COVER	2	1	2	1			S			
		(A=E/#84766)	(B=E/#81446)	(C=E/#81551)	(D=E/#81621)								
57-2	2	124160-01751	COVER, FILLER	2	1	2	1			N			
		(A=E/XXX)	(B=E/XXX)	(C=E/XXX)	(D=E/XXX)								
58	2	101104-01760	GASKET, CAP	2	1	2	1						
58-1	2	24321-000350	O-RING, 1AG35.0	2	1	2	1			S			
		(A=E/#84766)	(B=E/#81446)	(C=E/#81551)	(D=E/#81621)								
59	2	124450-11320	PLUG	1		1							
60	2	124770-03600	SHAFT, DECOMPRESSION	2	3	2	3						
61	2	104200-03641	SPRING, DECOMPRESSION	2	3	2	3						
62	2	124770-03610	LEVER, DECOMPRESSION	2	3	2	3						
63	2	124770-03680	CONNECTOR	1		1							
64	2	121370-03680	CONNECTOR		1		1						
65	2	124770-03690	PIN	1	2	1	2						
66	2	26757-060002	NUT, LOCK M6	4	6	4	6						
67	2	22360-080000	SNAP PIN 8	1	2	1	2						
68	2	22137-080000	WASHER, 8	1	2	1	2						
69	2	22212-060000	SPRING WASHER 6	2		2							
69-1	2	22217-060000	WASHER, SPRING 6	2		2				N			
		(A=E/XXX)	(B=E/XXX)	(C=E/XXX)	(D=E/XXX)								
70	2	22137-060000	WASHER, 6	3	3	3	3						
71	2	124250-03630	SCREW	2	3	2	3						
71-1	2	120220-03660	SCREW	2	3	2	3			N			
		(A=E/#84915)	(B=E/#81384)	(C=E/#81653)	(D=E/#81520)								
72	2	26756-050002	NUT, LOCK M5	3	4	3	4						
73	2	24311-000070	O-RING, 1AP7.0	2	3	2	3						
74	2	124250-03640	SCREW	2	3	2	3						
75	2	124770-03710	RETAINER	1	1	1	1						
76	2	26113-050128	BOLT, M5X 12	1	1	1	1						
77	2	124770-11770	JOINT, PIPE PT1/8	1		1							
78	2	121370-11320	COVER, CYLINDER HEAD		2		2						
78-1	2	124460-03650	COVER		2		2			S			
		(B=E/#81446)	(D=E/#81621)										
79	2	121370-11331	GASKET		2		2						
79-1	2	124460-03662	GASKET		2		2			S			
		(B=E/#81446)	(D=E/#81621)										
79-2	2	124460-03663	GASKET		2		2			N			
		(B=E/XXX)	(D=E/XXX)										

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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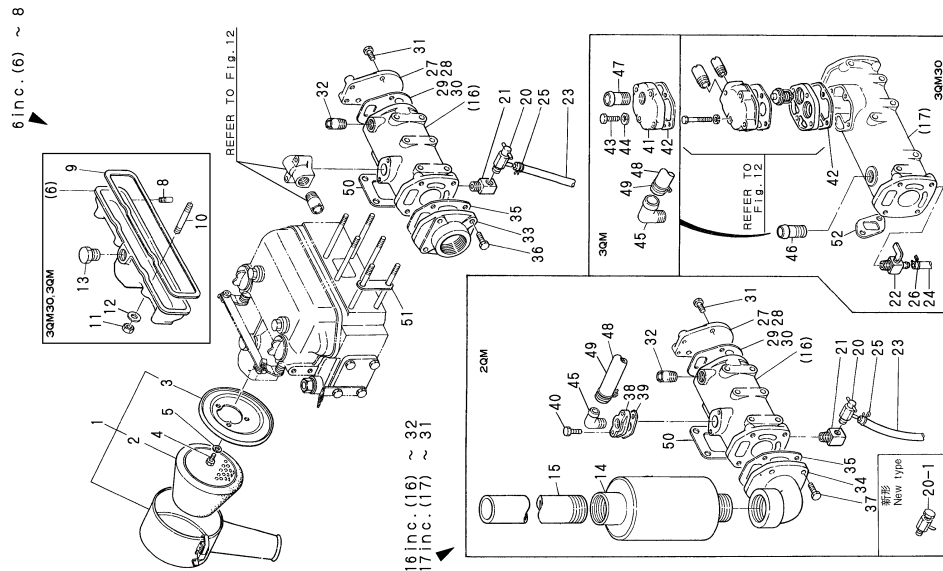
(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
80	2	26116-060142	BOLT, M6X 14 PLATED		4		4				
81	2	22212-060000	SPRING WASHER 6		4		4				
81-1	2	22217-060000	WASHER, SPRING 6		4		4				N
(B=EXXX)				(D=EXXX)							
82	1	124450-11310	GASKET, BONNET	1			1				
83	1	121370-11310	GASKET, BONNET		1		1				
84	1	124460-11360	CAP	2	3		2	3			
85	1	24311-000140	O-RING, 1AP14.0	2	3		2	3			
86	1	104214-03700	CABLE	1	1		1	1			2
87	1	124770-03720	BRACKET	1	1		1	1			3
88	1	124770-11670	COVER, HEAD	1	1						
89	1	124450-11671	COVER, CYLINDER HEAD				1	1			
90	1	124450-11681	GASKET	1	1		1	1			

Remarks
(1)INC.55 & 56.
(2)OPTIONAL
(3)2QM & 3QM:OPTIONAL
2QM20 & 3QM30:STANDARD EQUIPPED

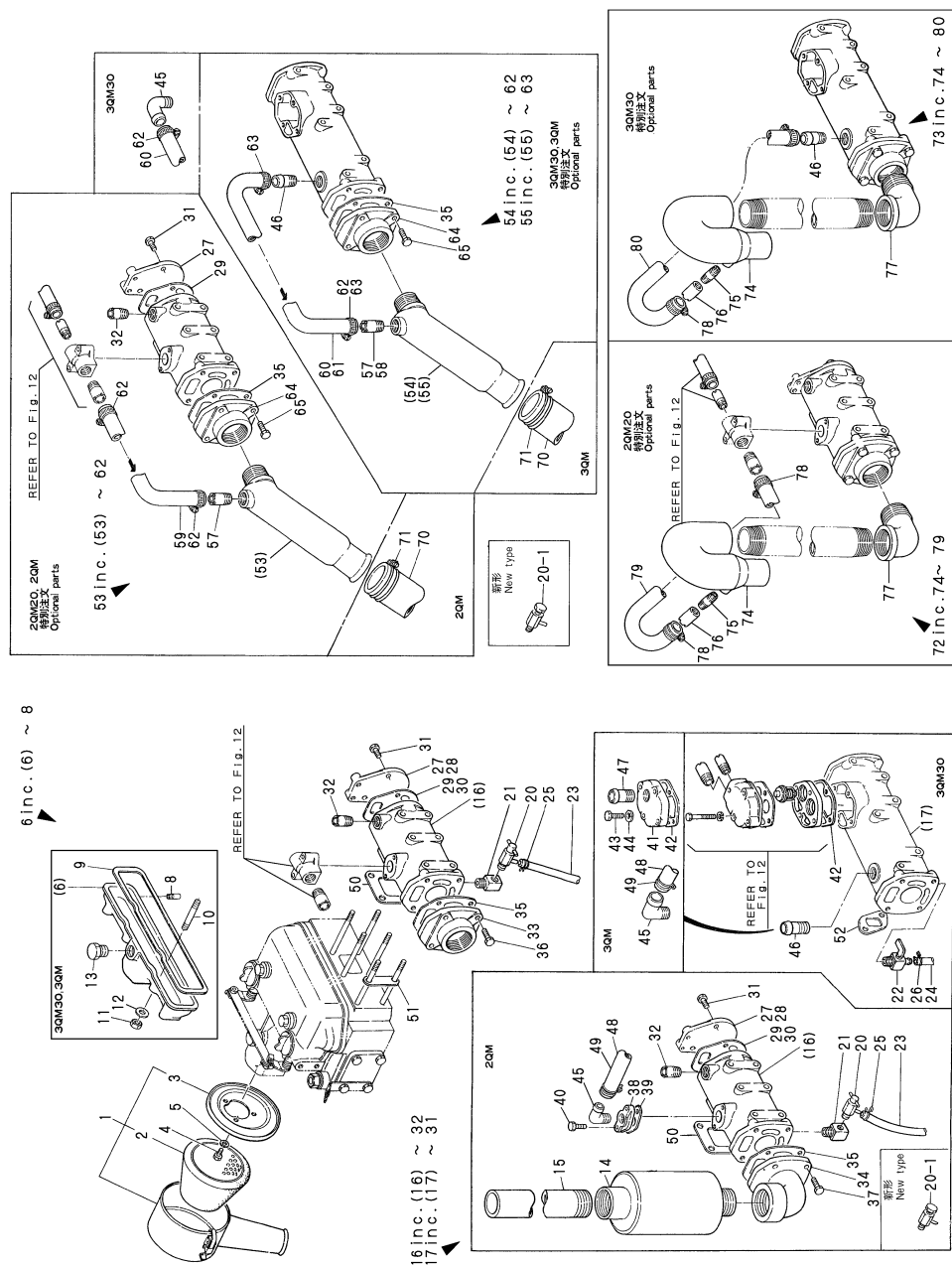


No.	Lev.	Parts No.	Description	Q'ty					I	R
				(A)	(B)	(C)	(D)	(E)		
1	1	124770-12500	SILENCER	1	1	1	1			
2	1	124770-12540	ELEMENT	1	1	1	1			
3	1	124770-12530	PLATE	1	1	1	1			
4	1	26117-060149	BOLT, M6X 14 PLATED	3	3	3	3			
5	1	22212-060000	SPRING WASHER 6	3	3	3	3			
5-1	1	22217-060000	WASHER, SPRING 6	3	3	3	3			N
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)						
6	1	121370-12730	MANIFOLD, AIR INTAKE		1		1			
8	2	124770-11770	JOINT, PIPE PT1/8		1		1			
9	1	121250-12710	GASKET, MANIFOLD		1		1			
10	1	121250-11550	BOLT		2		2			
11	1	26716-080002	NUT, M8		2		2			
12	1	22137-080000	WASHER, 8		2		2			
13	1	124450-11320	PLUG		1		1			
14	1	120220-13510	SILENCER, 1.5 INCH			1	1			
15	1	120220-13010	PIPE, 1-1/2X800			1	1			
16	1	724772-13500	MANIFOLD ASSY	1		1				
17	1	721370-13500	MANIFOLD ASSY		1		1			
20	2	43600-001200	COCK	1		1				
20-1	2	43600-500290	COCK 1/4	1		1				N
	(A=EXXX)	(C=EXXX)								
21	2	124772-13410	JOINT	1		1				
22	2	104200-11920	COCK, WATER		1		1			
23	2	23061-070500	PIPE, 7X 500	1		1				
24	2	23061-100500	PIPE, 10X 500		1		1			
25	2	124450-44560	RETAINER	1		1				
25-1	2	124460-77680	RETAINER	1		1				N
	(A=*1976.12)	(C=*1976.12)								
26	2	124223-49750	CLIP, HOSE 13		1		1			
27	2	124772-13160	COVER	1		1				
28	2	121370-13160	COVER, MANIFOLD		1		1			
29	2	124770-13180	GASKET	1		1				
30	2	124770-13170	GASKET		1		1			
31	2	26113-080222	BOLT M 8X 22	4	4	4	4			
32	2	124223-49300	JOINT, PIPE	1		1				
33	1	124770-13150	FLANGE	1	1					
34	1	124223-13070	BEND, EXHAUST			1	1			
35	1	124770-13170	GASKET	1	1	1	1			
36	1	26113-080282	BOLT M 8X 28	4	4					
37	1	26113-080222	BOLT M 8X 22			4	4			
38	1	124790-49250	FLANGE			1				
39	1	104211-49160	GASKET			1				
40	1	26116-060182	BOLT, M6X 18 PLATED			2				
41	1	121390-13250	COVER				1			
42	1	121370-49160	GASKET				1			
43	1	26116-060252	BOLT, M6X 25 PLATED				4			
44	1	22212-060000	SPRING WASHER 6				4			
44-1	1	22217-060000	WASHER, SPRING 6				4			N
			(D=EXXX)							
45	1	124790-49290	ELBOW, PT1/2			1	1			
46	1	124770-13690	JOINT, PIPE		1					

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Remarks
(1)NOT ILLUSTRATED.

Fig.4. SILENCER & EXHAUST MANIFOLD

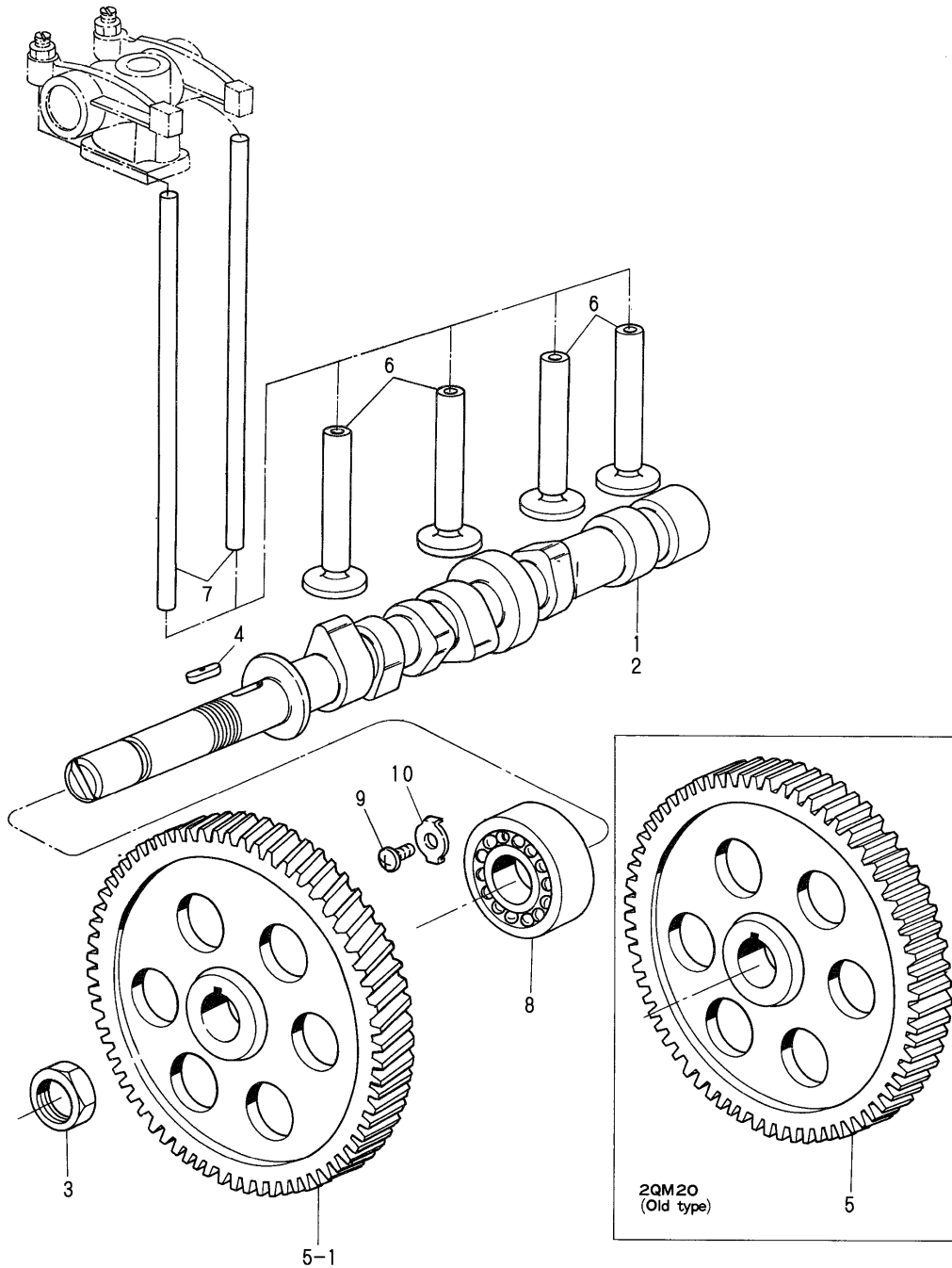


				(A)=2QM20 (B)=3QM30 (C)=2QM			(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
47	1	123325-49220	JOINT, PIPE				1		
48	1	23093-191000	PIPE 19X1000			1	1		
49	1	23000-035000	CLAMP, 35			2	2		
50	1	124450-11900	GASKET	1		1			
51	1	124770-13130	GASKET, MUFFLER	1		1			
52	1	121250-13520	GASKET		3		3		
53	1	724770-13200	ELBOW ASSY	1		1			
54	1	721370-13200	ELBOW ASSY		1				
55	1	721390-13200	ELBOW ASSY				1		
57	2	124770-13690	JOINT, PIPE	1	1	1			
58	2	123325-49220	JOINT, PIPE				1		
59	2	124770-49040	PIPE, WATER	1		1			
60	2	121370-49040	PIPE, WATER		1				
61	2	121390-49040	PIPE, WATER				1		
62	2	23000-025000	CLAMP, 25	2	2	2			
63	2	23000-035000	CLAMP, 35				2		
64	1	124770-13150	FLANGE			1	1		
65	1	26113-080282	BOLT M 8X 28			4	4		
66	1	124790-49260	FLANGE			1			1
67	1	26116-060352	BOLT, M6X 35 PLATED			2			1
68	1	124223-49300	JOINT, PIPE			1			1
69	1	123325-49220	JOINT, PIPE				1		1
70	1	23072-204000	HOSE, 20X4000			1	1		
71	1	23000-070000	CLAMP, 70			2	2		
72	1	724770-13300	ELBOW ASSY	1					
73	1	721370-13300	ELBOW ASSY		1				
74	2	124770-13550	ELBOW	1	1				
75	3	124770-49100	JOINT, PIPE	1	1				
76	3	124770-49110	SPACER	1	1				
77	2	23112-140000	ELBOW, R1+1/2	1	1				
78	2	23000-025000	CLAMP, 25	2	2				
79	2	124770-49050	PIPE, WATER	1					
80	2	121370-49050	PIPE, WATER		1				

Remarks
(1)NOT ILLUSTRATED.

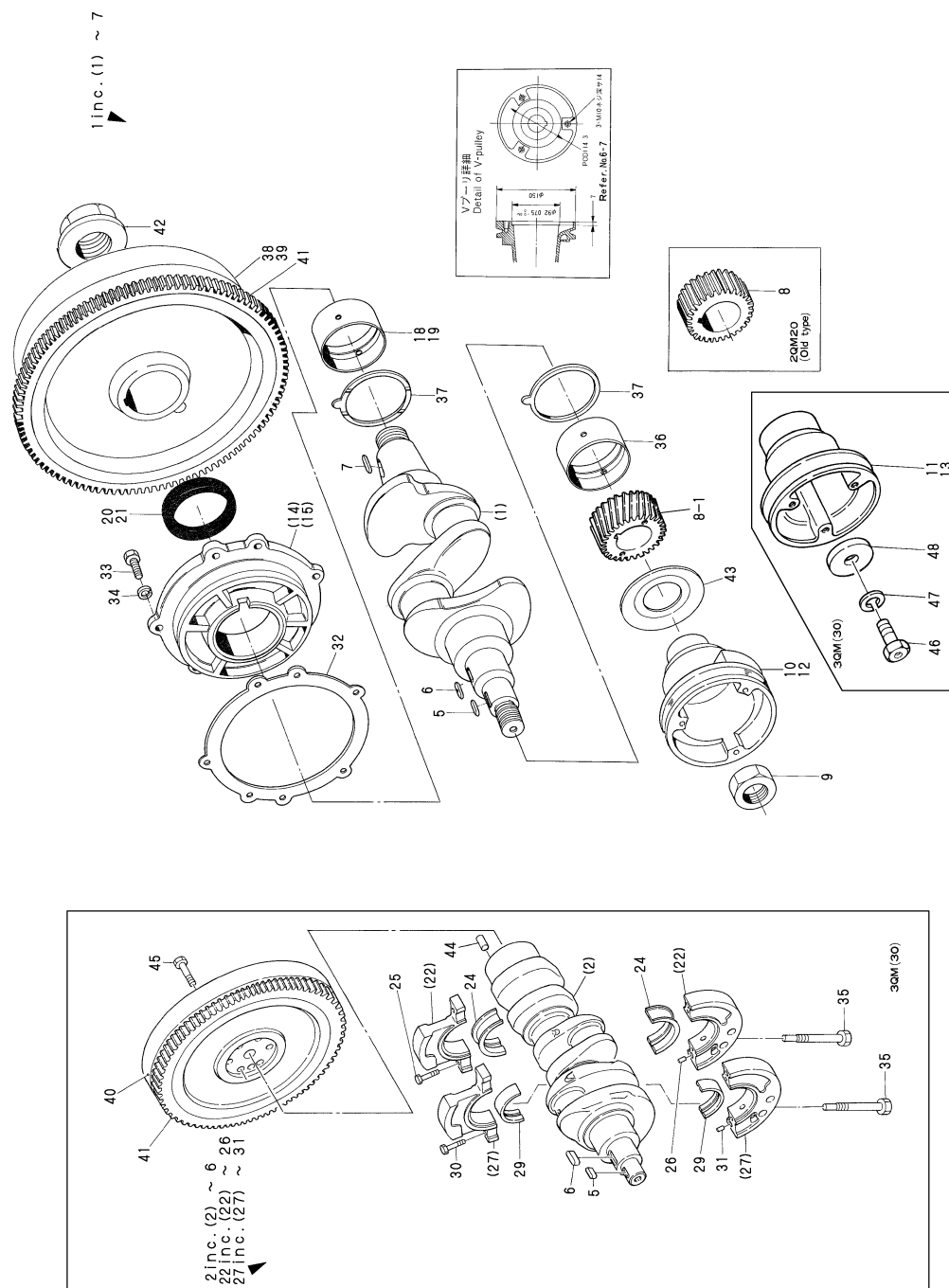
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				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124465-14010	CAMSHAFT	1		1					
1-1	1	724465-14580	CAMSHAFT ASSY	1		1				N	
		(A=FROM 1ST)	(C=FROM 1ST)								
2	1	121250-14010	CAMSHAFT		1		1				
2-1	1	721250-14580	CAMSHAFT ASSY		1		1			N	
		(B=FROM 1ST)	(D=FROM 1ST)								
3	2	124450-14120	NUT	1	1	1	1				
4	2	22512-070180	KEY, 7X 18	1	1	1	1				
5	1	124450-14100	GEAR, CAMSHAFT	1							
5-1	1	121250-14100	GEAR, CAMSHAFT	1	1	1	1			S	
6	1	103338-14200	TAPPET	4	6	4	6				
7	1	124450-14400	ROD, PUSH	4	6	4	6				
8	1	24101-062064	BEARING, BALL 6206	1	1	1	1				
9	1	26587-080122	SCREW, M8X12	1	1	1	1				
10	1	121250-02450	RETAINER, BEARING	1	1	1	1				

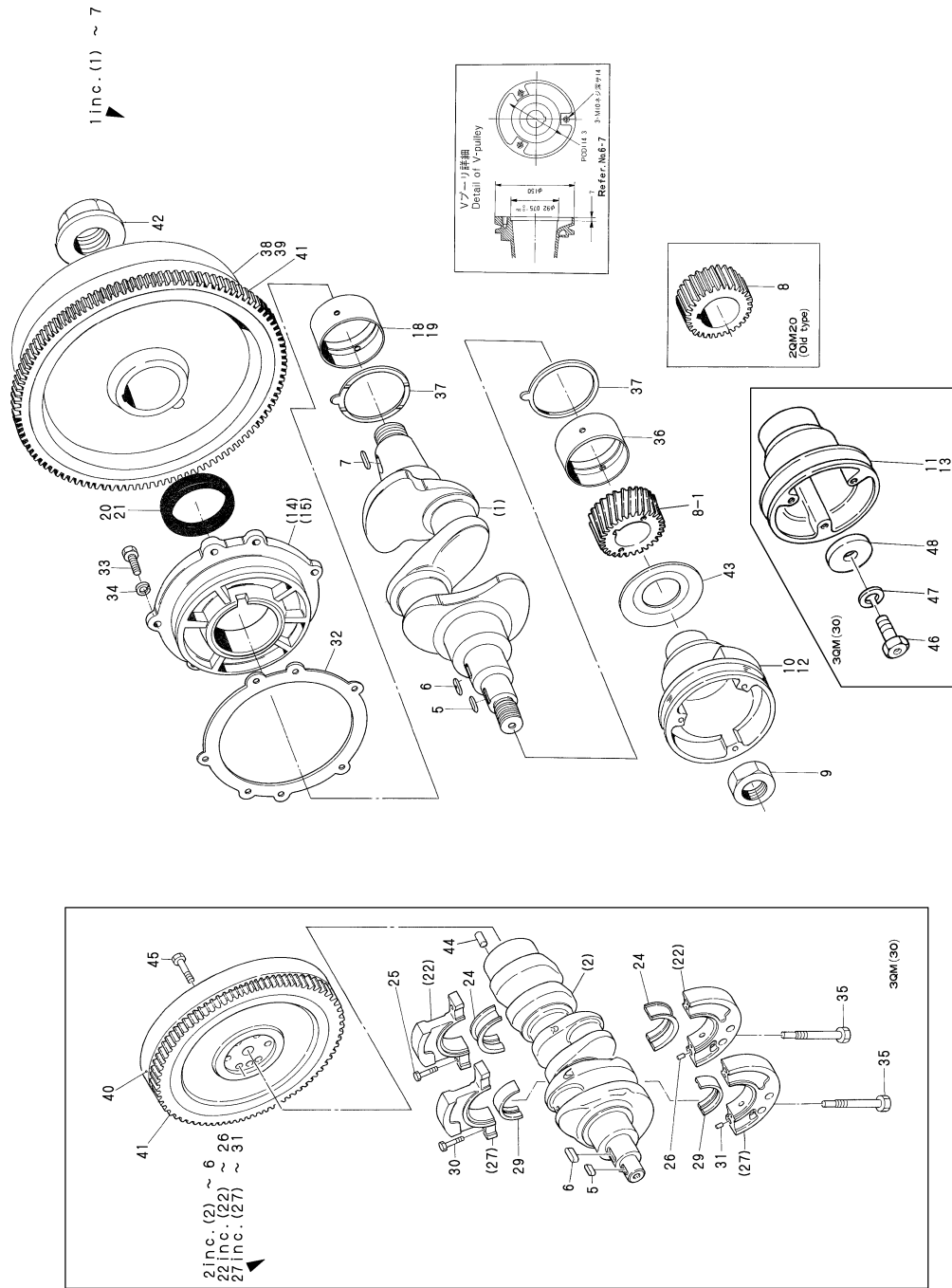
Fig.6. MAIN METAL & CRANKSHAFT



				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724550-21701	CRANKSHAFT ASSY	1		1					
1-1	1	724450-21702	CRANKSHAFT ASSY	1		1					N
		(A=E/#84365)	(C=E/#81201)								
2	1	721250-21700	CRANKSHAFT ASSY		1		1				
5	2	22512-070240	KEY, 7X 24	1	1	1	1				
6	2	22512-070280	KEY, 7X 28	1	1	1	1				
7	2	22512-100360	KEY, 10X 36			1					
8	1	124450-21200	GEAR, CRANKSHAFT	1							
8-1	1	121250-21200	GEAR, CRANKSHAFT	1	1	1	1				S
		(A=E/#82067)									
9	1	124160-21670	NUT, M30	1		1					
10	1	124772-21650	V-PULLEY	1							
10-1	1	124772-21651	V-PULLEY	1							N
		(A=EXXX)									
11	1	121370-21651	V-PULLEY, L113		1						
12	1	124790-21650	V-PULLEY			1					
12-1	1	124790-21651	V-PULLEY			1					N
			(C=EXXX)								
13	1	121390-21650	V-PULLEY, L91					1			
14	1	724465-02500	HOUSING ASSY, METAL	1		1					
15	1	721250-02500	HOUSING ASSY, METAL		1		1				
18	2	121250-02100	BEARING, MAIN	1		1					
19	2	121250-02110	BEARING, MAIN		1		1				
20	2	124450-02220	SEAL, HTCX60X82X9	1		1					
21	2	121250-02220	SEAL, OIL		1		1				
22	1	721250-02610	HOUSING ASSY		1		1				
24	2	121250-01220	BEARING, MAIN		1		1				
25	2	26116-100501	BOLT, M10X 50 PLATED		2		2				
26	2	22312-060140	PIN, PARALLEL M6X14		2		2				
27	1	721250-02620	HOUSING ASSY		1		1				
29	2	121250-02130	BEARING, MAIN		1		1				
30	2	26116-100501	BOLT, M10X 50 PLATED		2		2				
31	2	22312-060140	PIN, PARALLEL M6X14		2		2				
32	1	124460-02150	GASKET	1	1	1	1				
33	1	26116-100252	BOLT, M10X 25 PLATED	5	5	5	5				
34	1	22217-100000	WASHER, SPRING 10	5	5	5	5				
34-1	1	22217-100000	WASHER, SPRING 10	5	5	5	5				N
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)						
35	1	121250-02300	BOLT		2		2				
36	1	121250-02100	BEARING, MAIN	1	1	1	1				
37	1	124450-02110	BEARING, THRUST	2		2					
38	1	124770-21590	FLYWHEEL ASSY	1							
38-1	1	124770-21591	FLYWHEEL ASSY	1							N
		(A=EXXX)									
39	1	124790-21590	FLYWHEEL ASSY			1					
39-1	1	124790-21591	FLYWHEEL ASSY			1					N
			(C=EXXX)								
40	1	121370-21591	FLYWHEEL ASSY		1		1				
41	1	124550-21600	GEAR, RING	1	1	1	1				
42	1	124450-21530	NUT, END	1		1					
43	1	124160-21700	DISC, OIL SHIELD	1	1	1	1				

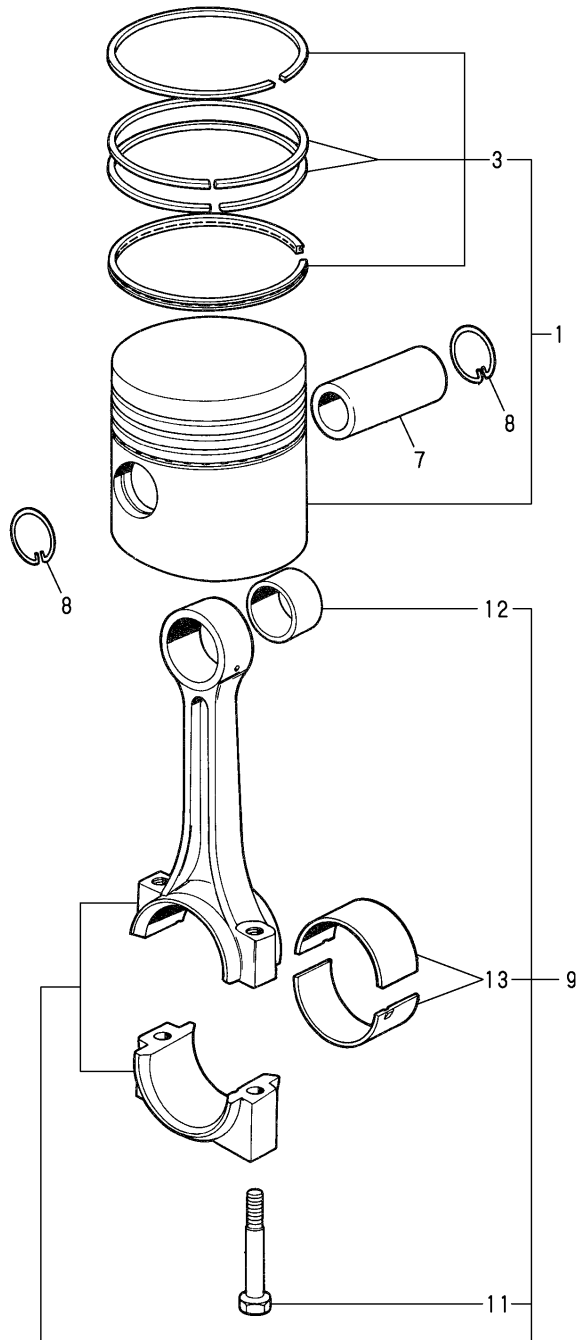
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.6. MAIN METAL & CRANKSHAFT



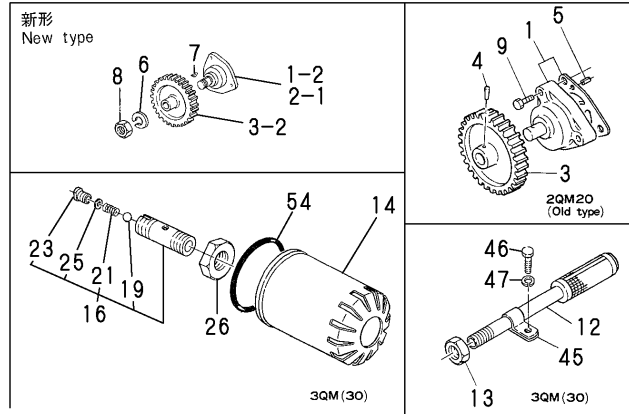
				(A)=2QM20 (B)=3QM30 (C)=2QM	(D)=3QM (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I	R
44	1	124227-21920	PIN, PARALLEL		1		1				
45	1	124250-21501	BOLT, FLYWHEEL		6		6				
46	1	121370-21680	BOLT		1		1				
47	1	22212-120000	SPRING WASHER 12		1		1				
47-1	1	22217-120000	WASHER, SPRING 12		1		1				N
(B=EXXX)				(D=EXXX)							
48	1	124060-21660	WASHER		1		1				

Fig.7. PISTON & CONNECTING ROD



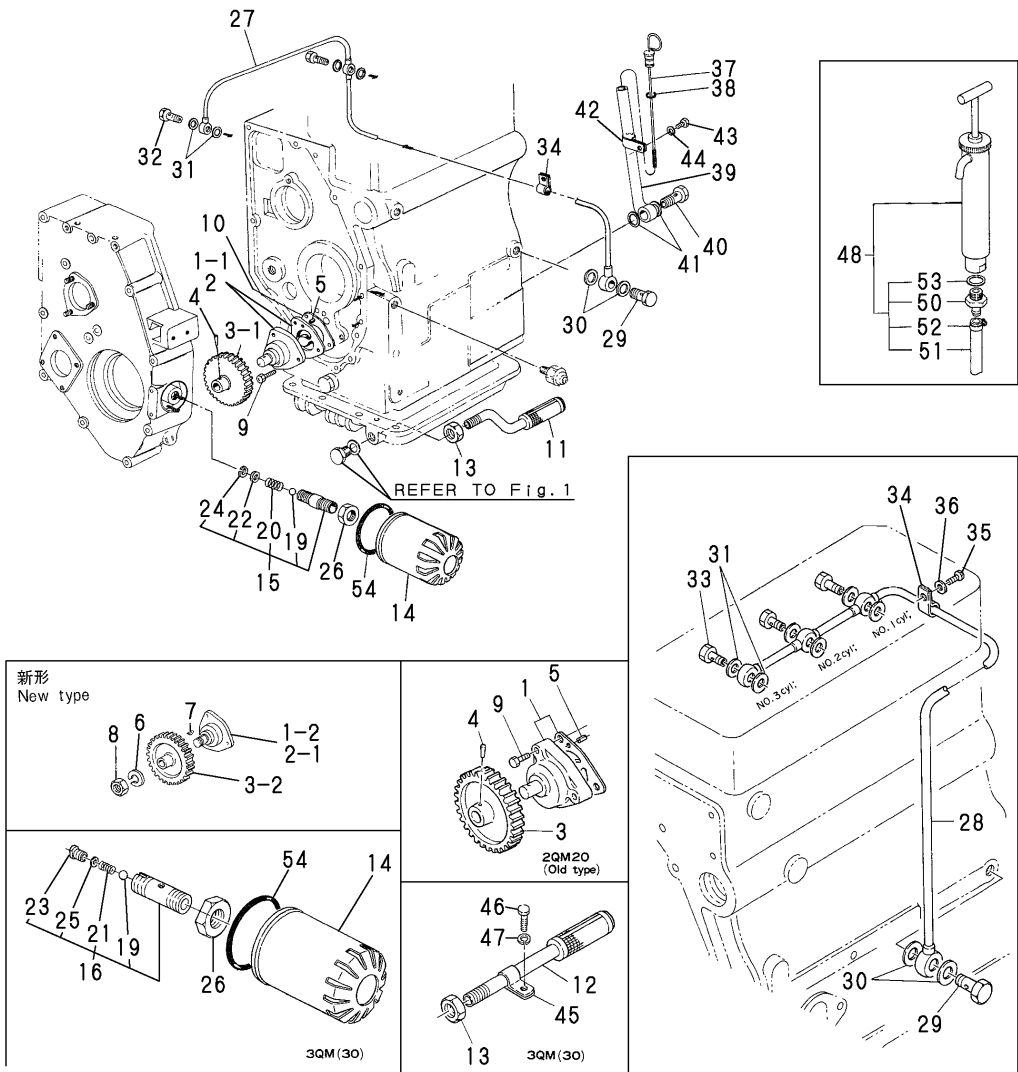
				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	Q'ty				I	R		
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124750-22090	PISTON ASSY	2	3	2	3				
1-1	1	724790-22720	PISTON ASSY	2	3	2	3			N	
		(A=*1978.03)	(B=*1978.03)	(C=*1978.03)	(D=*1978.03)						
3	2	724750-22500	RING SET, PISTON	2	3	2	3				
3-1	2	724790-22500	RING SET, PISTON	2	3	2	3			N	
		(A=*1978.03)	(B=*1978.03)	(C=*1978.03)	(D=*1978.03)						
7	1	104600-22300	PIN, PISTON	2	3	2	3				
8	1	104600-22400	CIRCLIP	4	6	4	6				
9	1	724450-23100	ROD ASSY, CONNECTING	2	3	2	3				
11	2	124450-23200	BOLT, CONNECTING ROD	4	6	4	6				
12	2	124450-23100	BEARING, PISTON PIN	2	3	2	3				
13	2	124450-23300	BEARING, CRANK PIN	2	3	2	3				

Fig.8. LUB.OIL SYSTEM



				(A)=2QM20 (B)=3QM30 (C)=2QM	(D)=3QM (E)= (F)=			I	R	
No.	Lev.	Parts No.	Description		(A)	(B)	Q'ty (C)	(D)	(E)	(F)
1	1	724450-32700	PUMP ASSY, OIL		1					
1-1	1	724772-32700	PUMP ASSY, OIL		1		1			S
(A=E/#82066)										
1-2	1	724790-32101	PUMP ASSY, OIL		1		1			N
(A=E/#87435) (C=E/#82677)										
2	1	721250-32700	PUMP ASSY, OIL			1		1		
2-1	1	121390-32001	PUMP ASSY, OIL			1		1		N
(B=EXXX) (C=EXXX)										
3	2	124450-32200	GEAR, LUB OIL PUMP		1					
3-1	2	121250-32201	GEAR, OIL PUMP		1	1	1	1		S
(A=E/#82067)										
3-2	2	121390-32200	GEAR, OIL PUMP		1	1	1	1		S
(A=E/#84439) (B=E/#81149) (C=E/#81289) (D=E/#81193)										
4	2	22322-030220	PIN, TAPER 3X22		1	1	1	1		Z
(A=*1979.07) (B=*1979.07) (C=*1979.07) (D=*1979.07)										
5	2	22351-040012	PIN, SPRING 4.0X12		1	1	1	1		Z
(A=*1979.07) (B=*1979.07) (C=*1979.07) (D=*1979.07)										
6	2	22212-080000	SPRING WASHER 8		1	1	1	1		
7	2	22522-030100	KEY, WOODRUFF 3X10		1	1	1	1		
8	2	26716-080002	NUT, M8		1	1	1	1		
9	2	26117-060229	BOLT M 6X 22		3	3	3	3		
10	2	124450-32020	GASKET		1	1	1	1		
11	2	124772-35060	PIPE, OIL INLET		1		1			
12	2	121370-35061	PIPE, OIL INLET			1		1		
13	2	124450-35070	NUT, PF1/4		1	1	1	1		
14	1	124550-35110	ELEMENT		1	1	1	1		
15	1	124450-35301	VALVE ASSY, CONTROL		1		1			
16	1	121250-35300	VALVE ASSY, CONTROL			1		1		
19	2	24190-100001	BALL, STEEL 5/16		1	1	1	1		
20	2	124450-35320	SPRING, VALVE		1		1			
21	2	121250-35320	SPRING, VALVE			1		1		
22	2	124450-35330	RETAINER		1		1			
23	2	121250-35330	RETAINER, SPRING			1		1		
24	2	22252-000100	RING, 10		1		1			
25	2	121250-35340	SHIM			1		1		
26	1	124450-35350	NUT, LOCK		1	1	1	1		
27	1	124465-39200	PIPE, OIL		1		1			
28	1	121250-39200	PIPE, OIL			1		1		
28-1	1	121252-39200	PIPE ASSY, OIL			1		1		R
(B=*1979.03) (D=*1979.03)										
29	1	124160-39140	BOLT, PIPE JOINT M10		1	1	1	1		
30	1	23414-100000	GASKET, 10X1.0		2	2	2	2		
31	1	23414-080000	GASKET, 8X1.0		4	6	4	6		
32	1	124550-59820	BOLT, PIPE JOINT M8		2		2			
33	1	101147-59810	BOLT, PIPE JOINT M8			3		3		
34	1	124450-39240	RETAINER, PIPE		1	1	1	1		
35	1	26557-080102	SCREW, M8X10			1		1		
36	1	22137-080000	WASHER, 8			1		1		
37	1	124770-34800	DIPSTICK, OIL		1	1	1	1		
38	1	24311-000090	O-RING, 1AP9.0		1	1	1	1		
39	1	124770-34710	PIPE		1	1	1	1		

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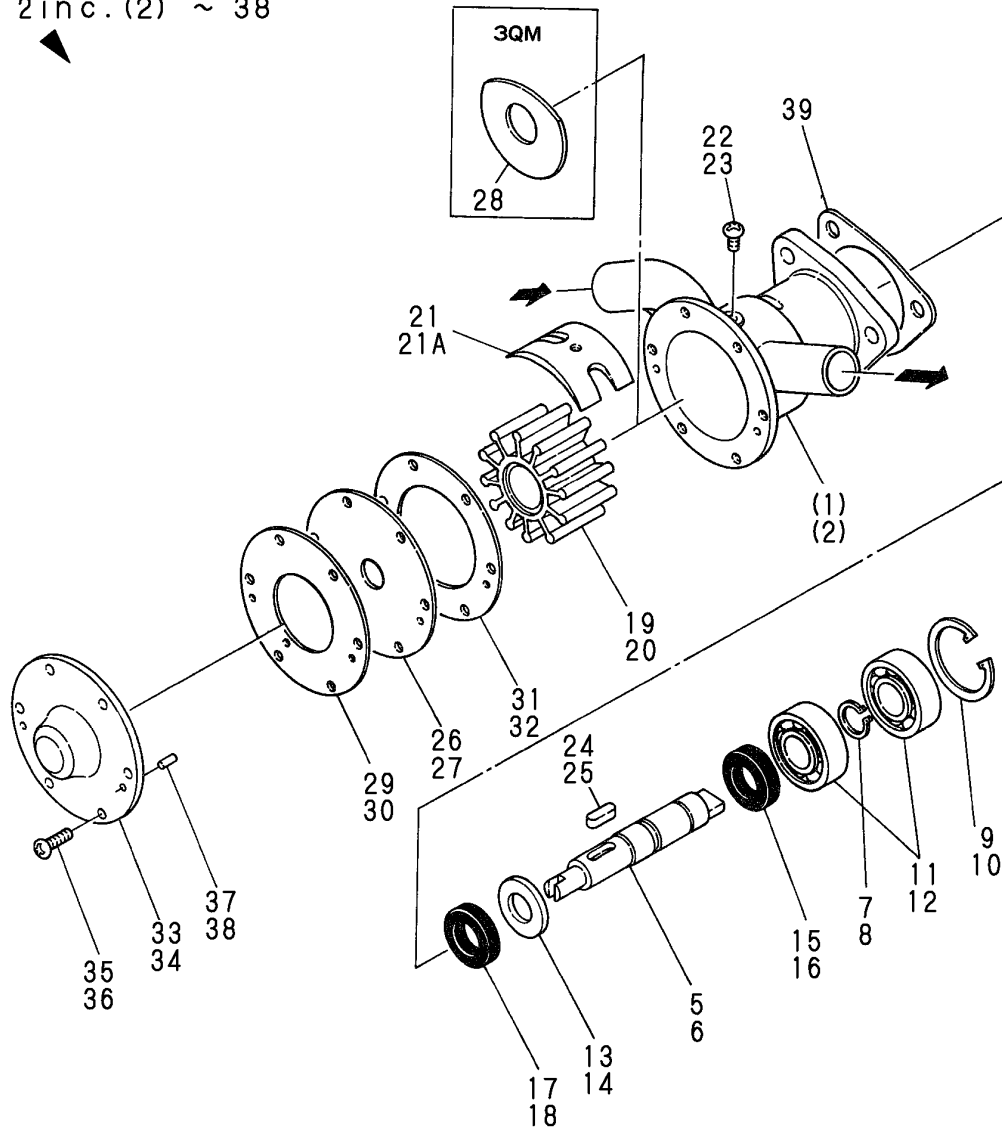


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
40	1	124770-34720	BOLT	1	1	1	1				
41	1	124770-34730	GASKET	2	2	2	2				
42	1	124770-34750	RETAINER	1	1	1	1				
43	1	26117-080149	BOLT M 8X 14 PLATED	1	1	1	1				
44	1	22212-080000	SPRING WASHER 8	1	1	1	1				
44-1	1	22217-080000	WASHER, SPRING 8	1	1	1	1			N	
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											
45	1	121370-35080	RETAINER, PIPE		1		1				
46	1	26116-060142	BOLT, M6X 14 PLATED		1		1				
47	1	22212-060000	SPRING WASHER 6		1		1				
47-1	1	22217-060000	WASHER, SPRING 6		1		1			N	
(B=EXXX) (D=EXXX)											
48	1	724772-39500	PUMP ASSY, WASTE	1	1	1	1				1
50	2	104214-39650	JOINT, PIPE	1	1	1	1				
51	2	124772-39950	PIPE, VINYL 7.5X1000	1	1	1	1				
52	2	23010-012000	CLAMP, 12	1	1	1	1				
53	2	23414-140000	GASKET, 14X1.0	1	1	1	1				
54	1	124450-35110	O-RING	1	1	1	1				

Remarks
(1)OPTIONAL

Fig.9. COOLING PUMP(SEA WATER)

1 inc. (1) ~ 37
2 inc. (2) ~ 38

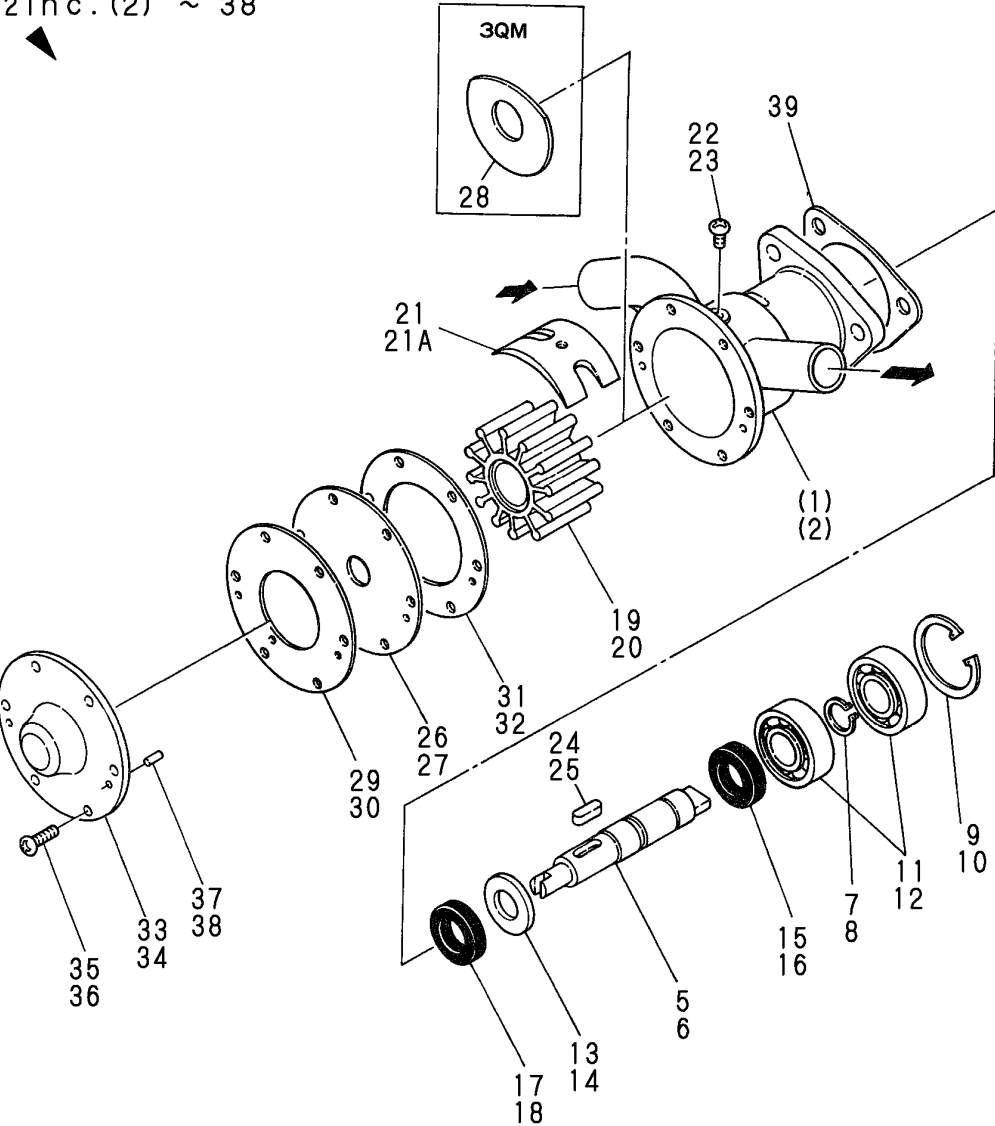


				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-42700	PUMP ASSY, WATER	1	1	1					
1-1	1	724770-42701	PUMP ASSY, WATER	1	1	1				N	
		(A=E86258)	(B=E82252)	(C=E82245)							
2	1	721390-42700	PUMP ASSY, WATER				1				
2-1	1	721390-42701	PUMP ASSY, WATER				1			N	
			(D=E82220)								
5	2	124770-42030	SHAFT	1	1	1					
5-1	2	124772-42130	SHAFT	1	1	1				S	
		(A=E86258)	(B=E82252)	(C=E82245)							
6	2	121390-42030	SHAFT				1				
6-1	2	121390-42130	SHAFT				1			S	
			(D=E82220)								
7	2	22242-000150	RING, 15	1	1	1					
8	2	22242-000170	RING, 17				1				
9	2	22252-000350	RING, 35	1	1	1					
10	2	22252-000400	RING, 40				1				
11	2	24101-062024	BEARING, BALL 6202	2	2	2					
12	2	24101-062034	BEARING, BALL 6203				2				
13	2	124223-42070	PIECE	1	1	1					
14	2	145410-46070	RING				1				
15	2	124223-42160	SEAL, TC15X30X7	1	1	1					
16	2	145410-46080	SEAL TC17 32 8, OIL				1				
17	2	124223-42080	SEAL, TC13X28X7	1	1	1					
18	2	145410-46080	SEAL TC17 32 8, OIL				1				
19	2	124223-42091	IMPELLER	1	1	1					
20	2	145410-46090	IMPELLER, C. WATER				1				
21	2	124323-42100	CAM, IMPELLER	1	1	1					
21A	2	145410-46100	CAM, IMPELLER				1				
22	2	26554-040102	SCREW, M4X10	1	1	1					
23	2	26554-050082	SCREW, M5X 8				1				
24	2	124223-42040	KEY	1	1	1					
25	2	145410-46040	KEY				1				
26	2	124223-42120	PLATE	1	1	1				Z	
		(A=E86258)	(B=E82252)	(C=E82245)							
27	2	121390-46130	PLATE				1			Z	
			(D=E82220)								
28	2	145410-46120	PLATE (A)				1				
29	2	124223-42140	GASKET	1	1	1				Z	
		(A=E86258)	(B=E82252)	(C=E82245)							
30	2	121390-42140	GASKET				1			Z	
			(D=E82220)								
31	2	124223-42110	GASKET, WATER PUMP	1	1	1					
32	2	145410-46110	PACKING				1				
33	2	124223-42150	COVER	1	1	1					
33-1	2	121575-42150	COVER	1	1	1				S	
		(A=E86258)	(B=E82252)	(C=E82245)							
34	2	121390-42150	COVER				1				
34-1	2	145410-46130	PLATE (B)				1			S	
			(D=E82220)								
35	2	26554-040122	SCREW, M4X12	6	6	6					
35-1	2	26554-040082	SCREW, M4X 8	6	6	6				S	

N:Old $\xleftrightarrow{\text{Yes/No}}$ New, Q:Old $\xleftrightarrow{\text{No/Yes}}$ New, R:Old $\xleftrightarrow{\text{Yes/Yes}}$ New, S:Old $\xleftrightarrow{\text{No/No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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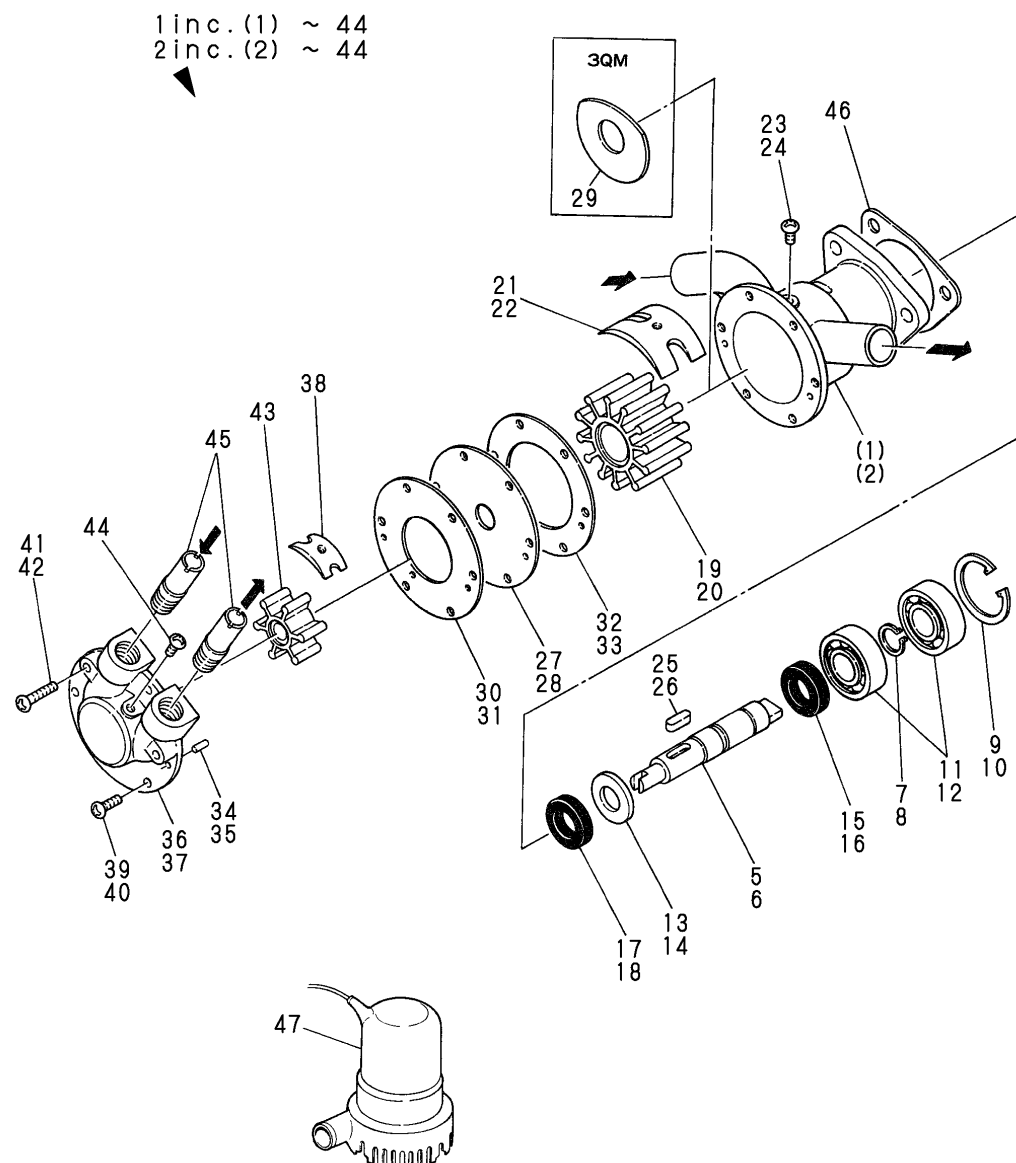
Fig.9. COOLING PUMP(SEA WATER)

1 inc. (1) ~ 37
2 inc. (2) ~ 38



0CR10-M09109 Fig.9									
				(A)=2QM20 (B)=3QM30 (C)=2QM	(D)=3QM (E)= (F)=				
No.	Lev.	Parts No.	Description			Q'ty			I R
				(A)	(B)	(C)	(D)	(E)	(F)
36	2	26113-060169	BOLT, M6X 16				6		
36-1	2	26113-060102	BOLT, M6X 10				6		S
37	2	22312-030080	PIN, PARALLEL M3X 8	(D=E82220)	2	2	2		Z
		(A=E86258)	(B=E82252)	(C=E82245)					
38	2	22312-040100	PARALLEL PIN 4X10				2		Z
39	1	124223-42020	GASKET, WATER PUMP	(D=E82220)	1	1	1	1	

Fig.10. C.S.W.PUMP & BILGE PUMP



No.	Lev.	Parts No.	Description	(A)=2QM20 (B)=3QM30 (C)=2QM			(D)=3QM (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-42500	PUMP ASSY, WATER	1	1	1					
2	1	721390-42500	PUMP ASSY, WATER				1				
5	2	124770-42030	SHAFT	1	1	1					
6	2	121390-42030	SHAFT						1		
7	2	22242-000150	RING, 15	1	1	1					
8	2	22242-000170	RING, 17						1		
9	2	22252-000350	RING, 35	1	1	1					
10	2	22252-000400	RING, 40						1		
11	2	24101-062024	BEARING, BALL 6202	2	2	2					
12	2	24101-062034	BEARING, BALL 6203						2		
13	2	124223-42070	PIECE	1	1	1					
14	2	145410-46070	RING						1		
15	2	124223-42160	SEAL, TC15X30X7	1	1	1					
16	2	145410-46080	OIL SEAL TC17328						1		
17	2	124223-42080	SEAL, TC13X28X7	1	1	1					
18	2	145410-46080	OIL SEAL TC17328						1		
19	2	124223-42091	IMPELLER	1	1	1					
20	2	145410-46090	IMPELLER, C. WATER						1		
21	2	124323-42100	CAM, IMPELLER	1	1	1					
22	2	145410-46100	CAM, IMPELLER						1		
23	2	26554-040102	SCREW, M4X10	1	1	1					
24	2	26554-050082	SCREW, M5X 8						1		
25	2	124223-42040	KEY	1	1	1					
26	2	145410-46040	KEY						1		
27	2	124223-42120	PLATE	1	1	1					
28	2	121390-46130	PLATE						1		
29	2	145410-46120	PLATE (A)						1		
30	2	124223-42140	GASKET	1	1	1					
31	2	121390-42140	GASKET						1		
32	2	124223-42110	GASKET, WATER PUMP	1	1	1					
33	2	145410-46110	PACKING						1		
34	2	22312-030080	PIN, PARALLEL M3X 8	2	2	2					
35	2	22312-040100	PARALLEL PIN 4X10						2		
36	2	124223-46011	BODY, BILGE PUMP	1	1	1					
37	2	121390-46010	BODY, BILGE PUMP						1		
38	2	104211-42050	CAM	1	1	1					
39	2	26554-040122	SCREW, M4X12	4	4	4					
40	2	26113-060169	BOLT, M6X 16						4		
41	2	26554-040222	SCREW, M4X22	2	2	2					
42	2	26113-060259	BOLT M 6X 25						2		
43	2	104211-42070	IMPELLER	1	1	1			1		
44	2	26554-040062	SCREW, M4X 6	1	1	1			1		
45	1	124223-46150	JOINT, PIPE	2	2	2			2		
46	1	124223-42020	GASKET, WATER PUMP	1	1	1			1		
47	1	977783-00121	PUMP 12V, BILGE			1			1		

Remarks
(1)OPTIONAL

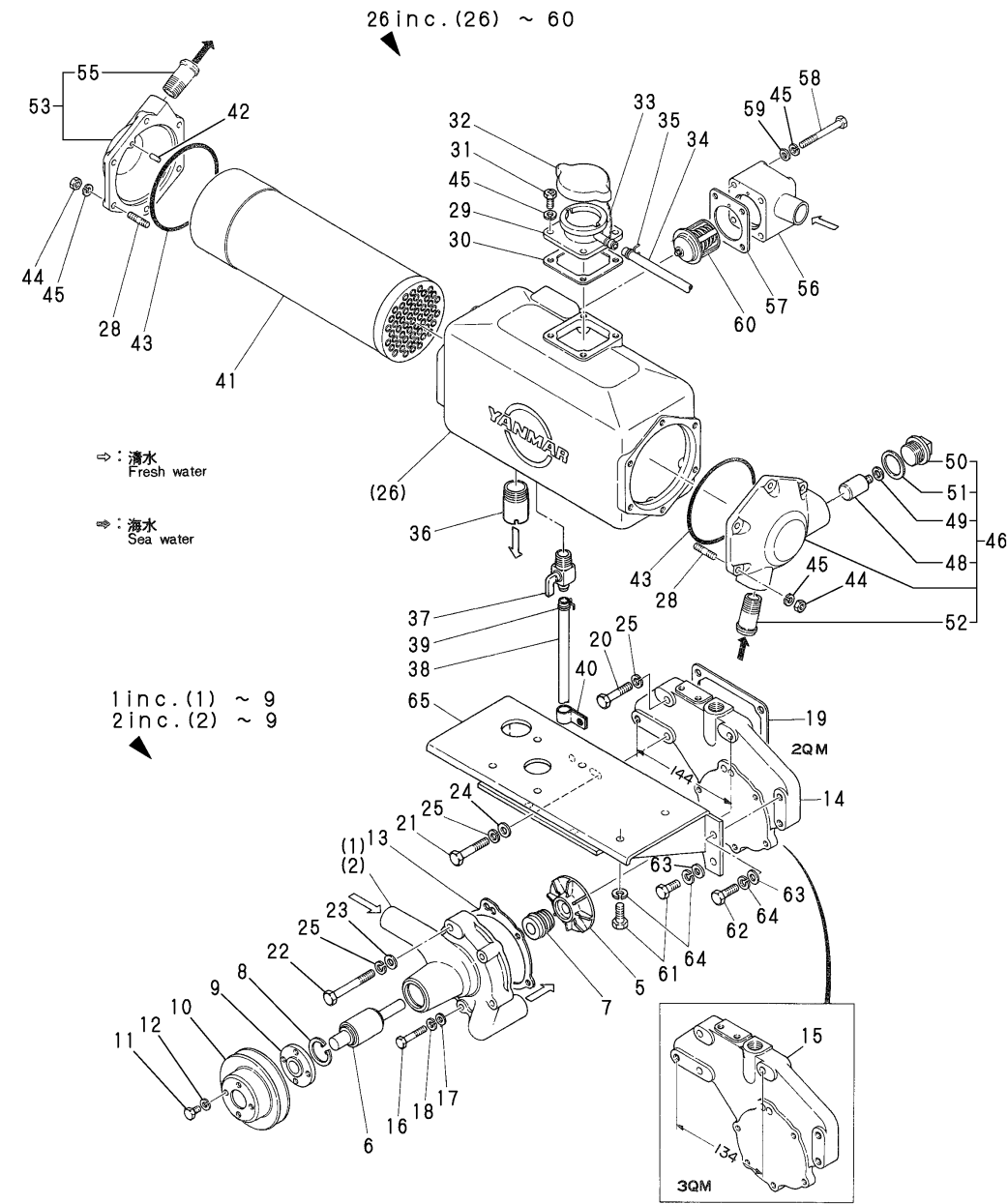
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Fig.11. C.F.W.PUMP & C.F.W.COOLER



N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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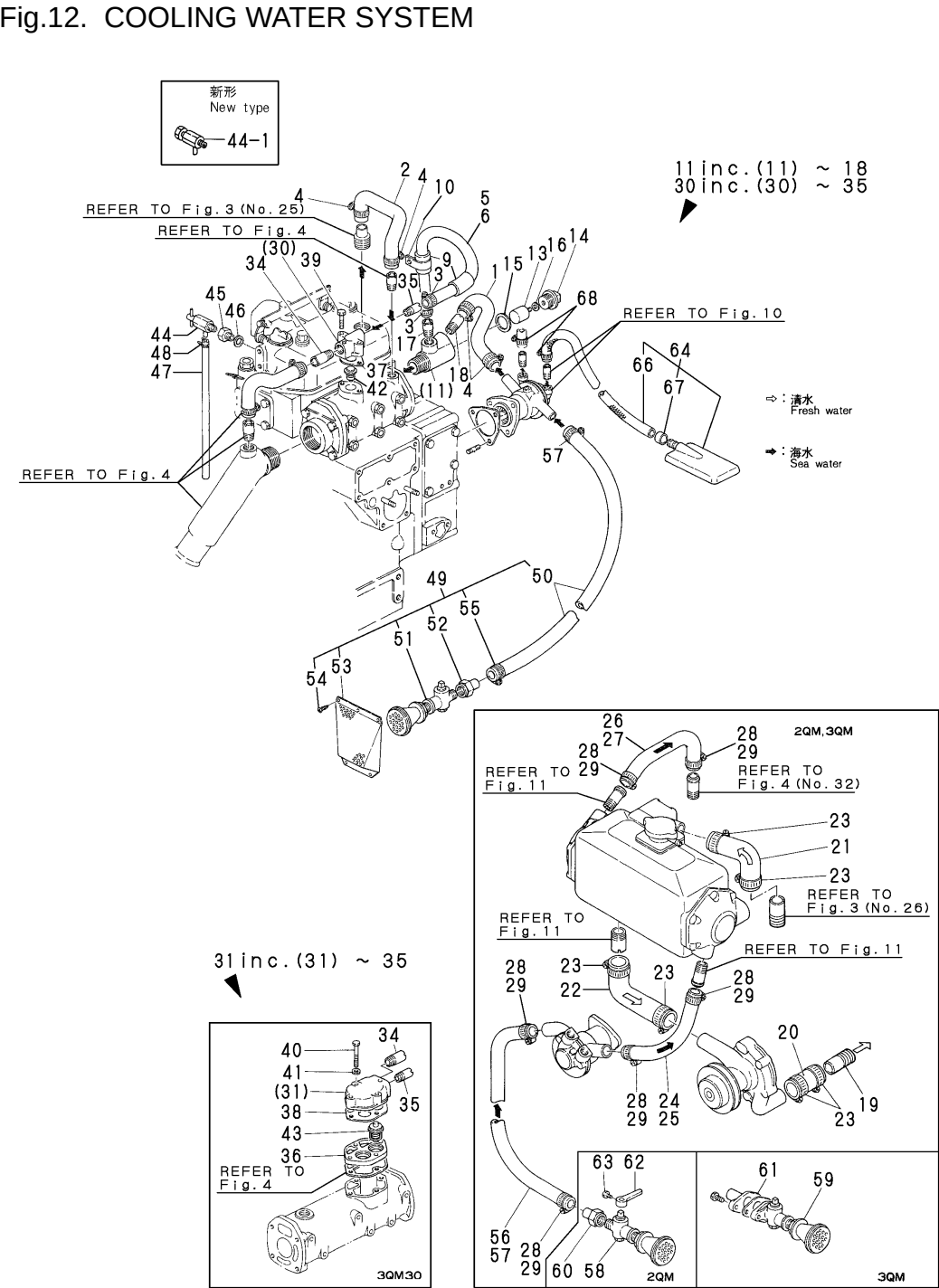
Fig.11. C.F.W.PUMP & C.F.W.COOLER



Remarks
(1)NOT ILLUSTRATED.

				OCR10-M09109 Fig.11							
				(A)=2QM20 (B)=3QM30 (C)=2QM	(D)=3QM (E)= (F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I	R
40	2	103884-03160	SUPPORT			1	1				
40-1	2	120445-77950	SUPPORT	1	1	1	1			S	
41	2	124790-44400	CORE, COOLER	1	1	1	1				
42	2	124790-44470	PIN	1	1	1	1				
43	2	24311-000950	O-RING, 1AP95.0	2	2	2	2				
44	2	26716-060002	NUT, M6	12	12	12	12				
45	2	22212-060000	SPRING WASHER 6			20	20				
45-1	2	22217-060000	WASHER, SPRING 6	20	20	20	20			N	
46	2	724790-44550	COVER ASSY	1	1	1	1				
48	3	27210-200300	ZINC, SCREW20X30	1	1	1	1				
49	3	123210-09310	GASKET	1	1	1	1				
50	3	124220-09320	PLUG	1	1	1	1				
51	3	23414-250000	GASKET, 25X1.0	1	1	1	1				
52	3	123325-49220	JOINT, PIPE	1	1	1	1				
53	2	724790-44560	COVER ASSY	1	1	1	1				
55	3	123325-49220	JOINT, PIPE	1	1	1	1				
56	2	124790-49750	HOUSING, THERMOSTAT	1	1	1	1				
57	2	124790-49760	GASKET	1	1	1	1				
58	2	26116-060602	BOLT, M6X 60 PLATED	4	4	4	4				
59	2	22137-060000	WASHER, 6	4	4	4	4				
60	2	124790-49800	THERMOSTAT	1	1	1	1				
61	1	26116-080202	BOLT, M8X 20 PLATED	10	10	10	10				
62	1	26116-080252	BOLT, M8X 25 PLATED	1	1	1	1				
63	1	22137-080000	WASHER, 8	4	4	4	4				
64	1	22212-080000	SPRING WASHER 8			11	11				
64-1	1	22217-080000	WASHER, SPRING 8	11	11	11	11			N	
65	1	124790-44100	BRACKET, EXCHANGER	1	1	1	1				
66	1	120445-44530	TANK, SUB	1	1						1
67	1	120445-44540	SUPPORT	1	1						1
68	1	124790-44560	PIPE, WATER L=1000	1	1						1
69	1	23010-013000	CLAMP 13	1	1						1

Fig.12. COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-49010	PIPE, WATER	1	1						
2	1	124770-49020	PIPE, WATER	1							
2A	1	121370-49020	PIPE, WATER		1						
3	1	23000-022000	CLAMP, 22	2	2						
4	1	23000-025000	CLAMP, 25	4	4						
5	1	124770-49060	PIPE, WATER	1							
6	1	121370-49060	PIPE, WATER		1						
9	2	105582-49900	PROTECTOR	2	2						
10	1	124770-49310	RETAINER	1	1						
11	1	724770-01450	JOINT ASSY	1	1						
13	2	27210-200300	ZINC, SCREW20X30	1	1						
14	2	124220-09320	PLUG	1	1						
15	2	23414-250000	GASKET, 25X1.0	1	1						
16	2	123210-09310	GASKET	1	1						
17	2	104211-49060	JOINT	1	1						
18	2	124223-49300	JOINT, PIPE	1	1						
19	1	124790-49600	JOINT, PIPE			1	1				
20	1	124790-49510	PIPE, WATER			1	1				
21	1	124790-49520	PIPE, WATER			1	1				
22	1	124790-49530	PIPE, WATER			1	1				
23	1	23000-041000	CLAMP, 41			6	6				
24	1	124790-49010	PIPE, WATER			1					
25	1	121390-49010	PIPE, WATER				1				
26	1	124790-49020	PIPE, WATER			1					
27	1	121390-49020	PIPE, WATER				1				
28	1	23000-025000	CLAMP, 25			6					
29	1	23000-035000	CLAMP, 35				6				
30	1	124770-49190	COVER, THERMOSTAT	1							
31	1	121370-49190	COVER, THERMOSTAT		1						
34	2	124223-49300	JOINT, PIPE	1	1						
35	2	104211-49060	JOINT	1	1						
36	1	121370-49171	BRACKET, THERMOSTAT		1						
37	1	104211-49160	GASKET	1							
38	1	121370-49160	GASKET		1						
39	1	26117-060359	BOLT, M6X 35 PLATED	2							
40	1	26116-060502	BOLT, M6X 50 PLATED		4						
41	1	22212-060000	SPRING WASHER 6		4						
41-1	1	22217-060000	WASHER, SPRING 6		4						N
(B=EXXX)											
42	1	124770-49200	THERMOSTAT	1							
43	1	105582-49200	THERMOSTAT		1						
44	1	43600-001200	COCK	1	1						
44-1	1	43600-500290	COCK 1/4	1	1	1	1				N
(A=*1978.12) (B=*1978.12)											
45	1	121370-01850	JOINT	1	1	1	1				
46	1	23414-140000	GASKET, 14X1.0	1	1	1	1				
47	1	23061-070300	PIPE, 7X 300	1	1	1	1				
48	1	124450-44560	RETAINER	1	1	1	1				
48-1	1	124460-77680	RETAINER	1	1	1	1				N
(A=*1976.12) (B=*1976.12) (C=*1976.12) (D=*1976.12)											
49	1	724770-48100	COCK ASSY, KINGSTON	1	1						

Fig.12. COOLING WATER SYSTEM

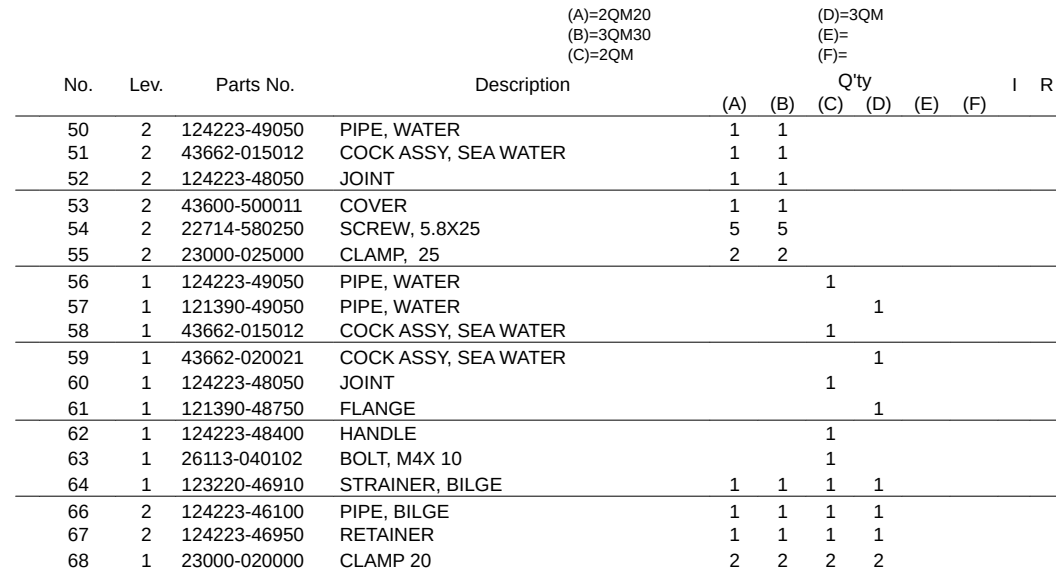
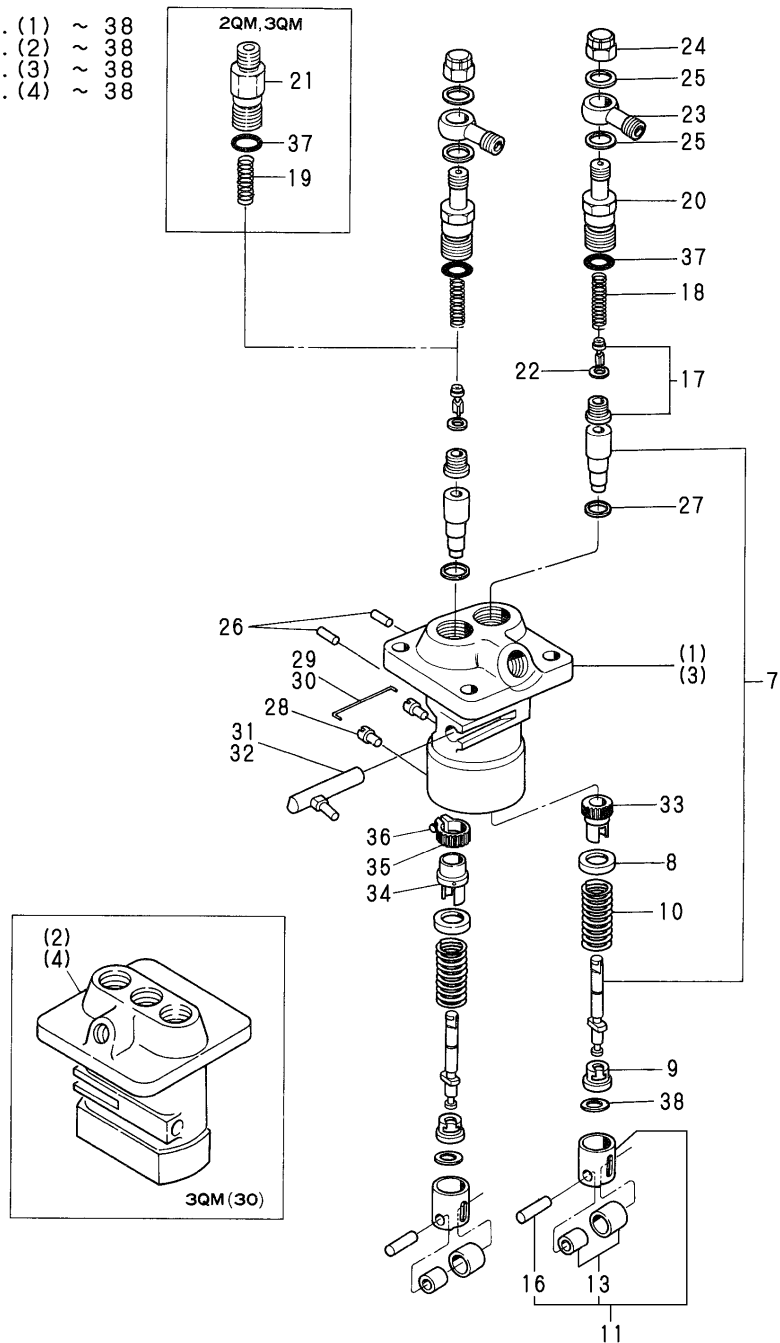
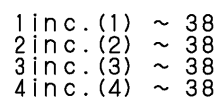
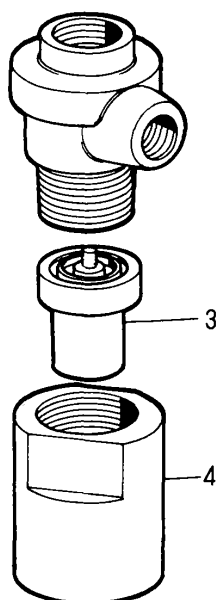
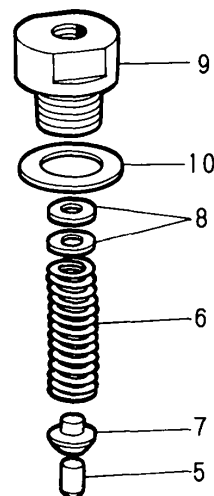
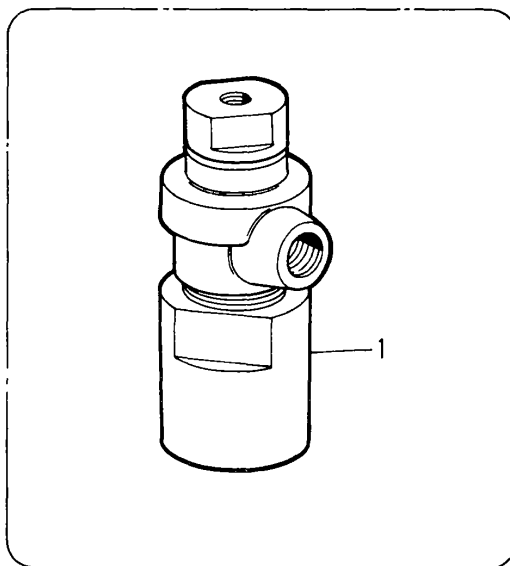


Fig.13. FUEL INJECTION PUMP



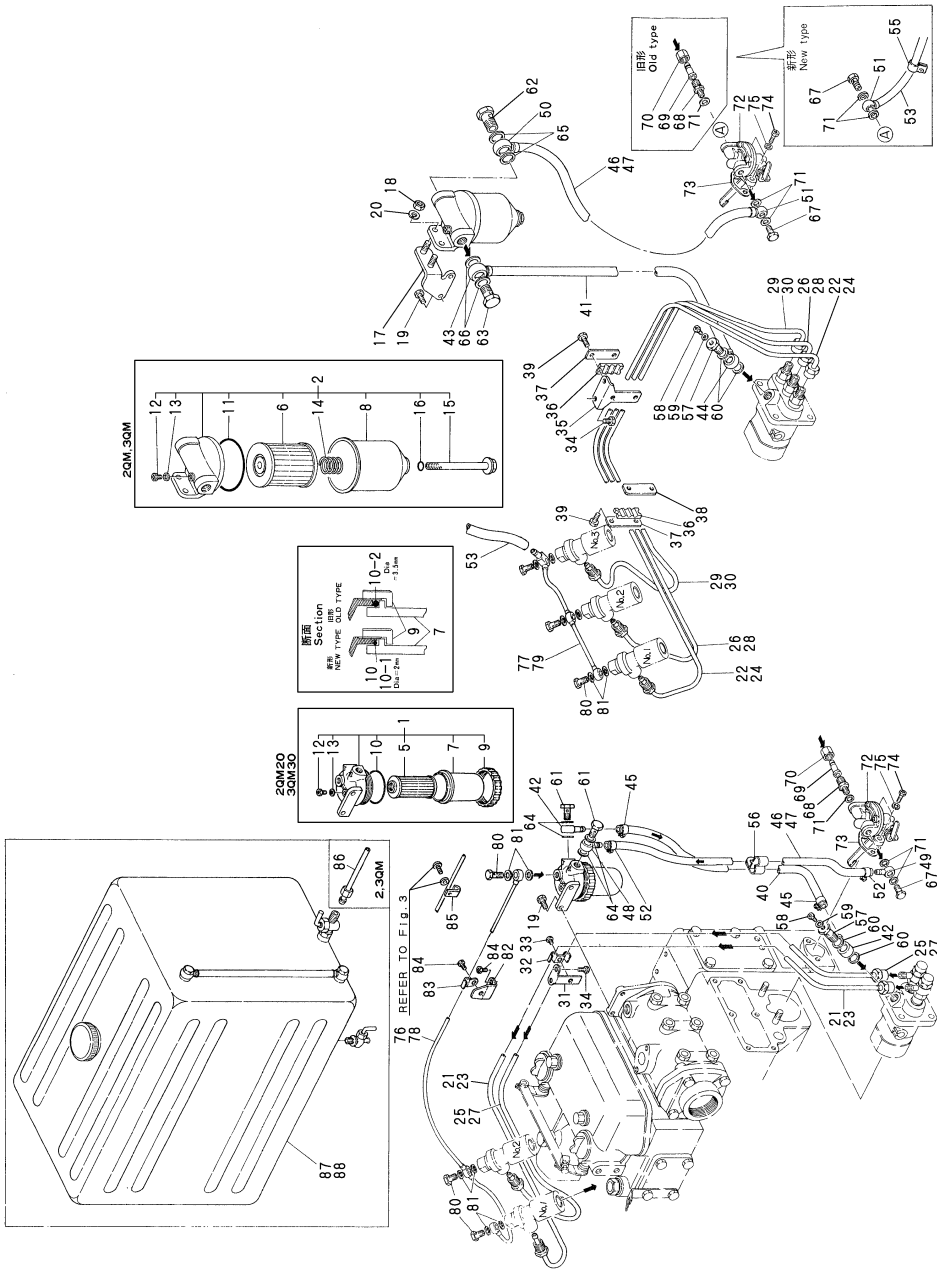
No.	Lev.	Parts No.	Description	(A)=2QM20 (B)=3QM30 (C)=2QM			(D)=3QM (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-51700	PUMP ASSY, INJECTION	1							
2	1	724790-51700	PUMP ASSY, INJECTION			1					
3	1	721370-51700	PUMP ASSY, INJECTION		1						
4	1	721390-51700	PUMP ASSY, INJECTION				1				
7	2	124770-51100	PLUNGER ASSY	2	3	2	3				
8	2	174307-51170	RETAINER, SPRING A	2	3	2	3				
9	2	174307-51180	RETAINER, SPRING	2	3	2	3				
10	2	174307-51190	SPRING, PLUNGER	2	3	2	3				
11	2	724550-51520	GUIDE, PLUNGER	2	3	2	3				
13	3	711100-51540	ROLLER ASSY	2	3	2	3				
16	3	174100-54120	PIN	2	3	2	3				
17	2	124550-51301	VALVE ASSY, DELIVERY	2	3	2	3				
18	2	174307-51320	SPRING, DELIVERY	2	3						
19	2	124550-51320	SPRING, DELIVERY			2	3				
20	2	124550-51340	HOLDER, DELIVERY	2	3						
21	2	124550-51341	HOLDER, DELIVERY L43			2	3				
22	2	124550-51350	GASKET, DELIVERY	2	3	2	3				
23	2	174307-51380	JOINT, PIPE	2	3						
24	2	174307-51370	NUT, CAP	2	3						
25	2	124240-51390	GASKET	4	6						
26	2	174307-51250	PIN, LOCK	2	3	2	3				
27	2	174307-51270	GASKET	2	3	2	3				
28	2	174307-51450	PIECE	2	3	2	3				
29	2	174307-51460	PIN, LOCK	1		1					
30	2	121150-51460	PIN, GUIDE		1		1				
31	2	724240-51530	RACK ASSY, CONTROL	1		1					
32	2	721150-51530	RACK ASSY, CONTROL		1		1				
33	2	174307-51510	SLEEVE	1	1	1	1				
34	2	174307-51550	SLEEVE, PINION	1	2	1	2				
35	2	174307-51560	PINION	1	2	1	2				
36	2	122117-51560	SCREW	1	2	1	2				
37	2	124550-51370	O-RING	2	3	2	3				
38	2	174307-51700	SHIM SET	2	3	2	3				



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	724770-53100	VALVE ASSY,INJECTION	2	3	2	3		
3	2	124770-53000	VALVE ASSY,INJECTION	2	3	2	3		
4	2	104900-53080	NUT, NOZZLE	2	3	2	3		
5	2	113200-53110	SPINDLE, INTER	2	3	2	3		
6	2	103854-53120	SPRING, NOZZLE	2	3	2	3		
7	2	113200-53120	RETAINER, SPRING	2	3	2	3		
8	2	110250-53150	PLATE ASSY, ADJUST	2	3	2	3		
9	2	103854-53180	RETAINER, SPRING	2	3	2	3		
10	2	172100-53200	GASKET	2	3	2	3		

(A)=2QM20
(B)=3QM30
(C)=2QM

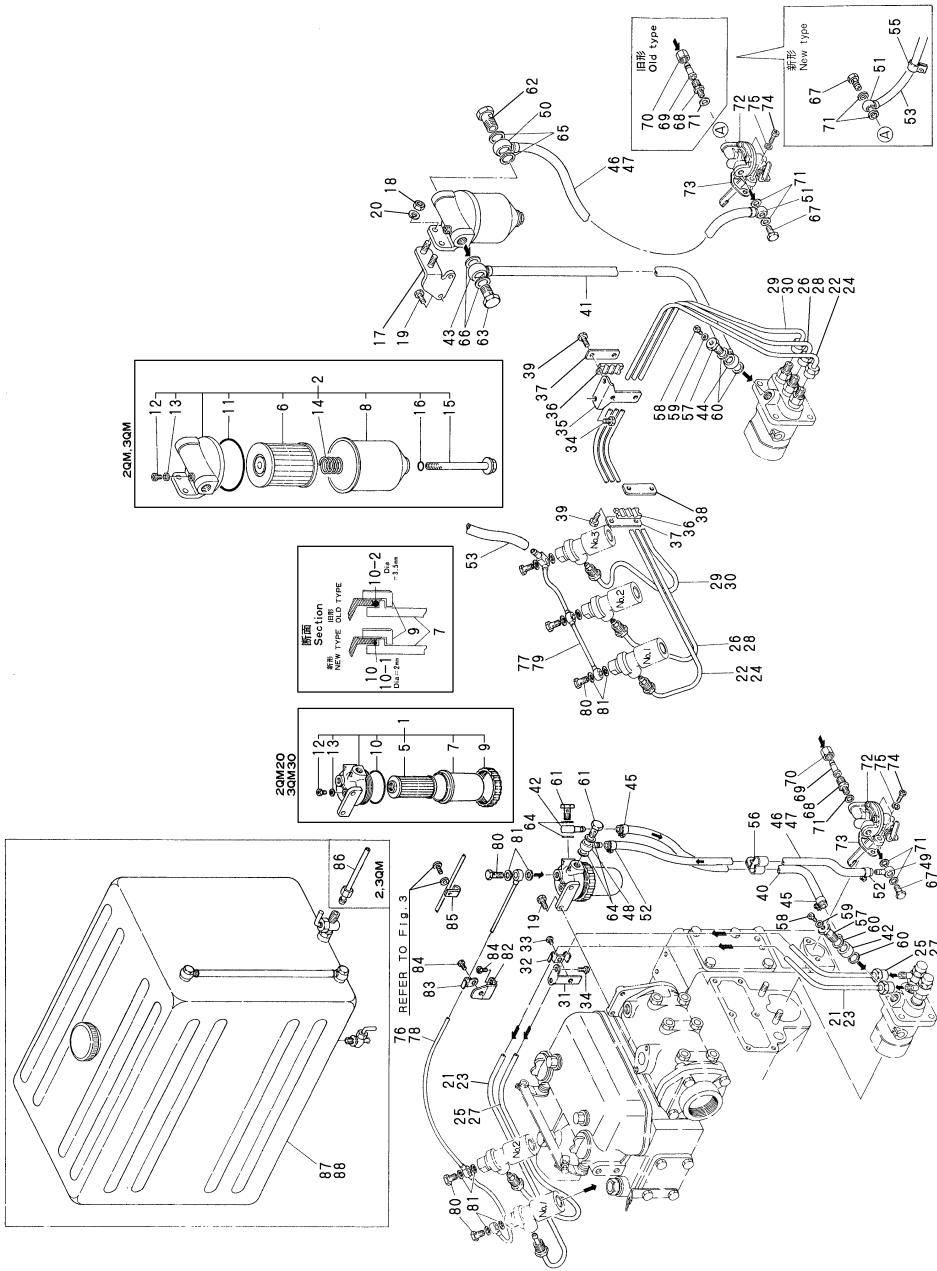
(D)=3QM
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-55600	STRAINER ASSY, FUEL	1	1						
1-1	1	121370-55601	STRAINER ASSY, FUEL	1	1						N
(A=E/#85483) (B=E/#81654)											
2	1	724220-55500	FILTER ASSY, FUEL			1	1				
5	2	104500-55710	ELEMENT	1	1						
6	2	124220-35210	ELEMENT			1	1				
7	2	121370-55730	CUP, STRAINER	1	1						
8	2	124220-35220	COVER			1	1				
9	2	110250-55610	RING, RETAINING	1	1						
10	2	110250-55520	GASKET	1	1						
10-1	2	102103-55520	O-RING	1	1						N
(A=E/XXX) (B=E/XXX)											
10-2	2	24341-000440	O-RING, 1AS44.0	1	1						S
(A=E/#86617) (B=E/#82525)											
11	2	124220-35270	GASKET			1	1				
12	2	111154-51900	PLUG	1	1	1	1				
12-1	2	101720-51900	PLUG	1	1	1	1				N
(A=E/XXX) (B=E/XXX) (C=E/XXX) (D=E/XXX)											
13	2	23418-060000	GASKET, 6X1.0	1	1	1	1				
14	2	124220-35240	SPRING			1	1				
15	2	124220-35230	BOLT			1	1				
16	2	24311-000120	O-RING, 1AP12.0			1	1				
17	1	124790-55800	BRACKET, STRAINER			1	1				
17-1	1	124790-55810	BRACKET, STRAINER			1	1				N
(C=E/#80226) (D=E/#80181)											
17-2	1	724790-55900	BRACKET ASSY			1	1				N
(C=E/#82415) (D=E/#82324)											
18	1	26716-080002	NUT, M8			2	2				
19	1	26116-060152	BOLT M 6X 15 PLATED	2	2	2	2				
19-1	1	26116-060402	BOLT, M6X 40 PLATED			2	2				S
(C=E/#82415) (D=E/#82324)											
20	1	22212-060000	SPRING WASHER 6			2	2				
20-1	1	22217-060000	WASHER, SPRING 6			2	2				N
(C=E/XXX) (D=E/XXX)											
20-2	1	22217-060000	WASHER, SPRING 6			2	2				Z
(C=E/#82415) (D=E/#82324)											
21	1	124772-59810	PIPE ASSY, INJECTION	1							
22	1	121370-59810	PIPE, FUEL INJECTION		1						
23	1	124465-59810	PIPE ASSY, INJECTION			1					
24	1	121250-59830	PIPE ASSY, INJECTION				1				
25	1	124772-59820	PIPE ASSY, INJECTION	1							
26	1	121370-59820	PIPE, FUEL INJECTION		1						
27	1	124465-59800	PIPE ASSY, INJECTION			1					
28	1	121250-59820	PIPE ASSY, INJECTION				1				
29	1	121370-59830	PIPE, FUEL INJECTION		1						
30	1	121250-59810	PIPE ASSY, INJECTION				1				
31	1	124460-59850	RETAINER, PIPE	1		1					
32	1	124460-59860	RETAINER, PIPE	1		1					
33	1	26557-060082	SCREW, M6X 8	1		1					
34	1	26117-060109	BOLT M 6X 10 PLATED	2	2	2	2				
35	1	121250-59850	RETAINER			1	1				

(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=

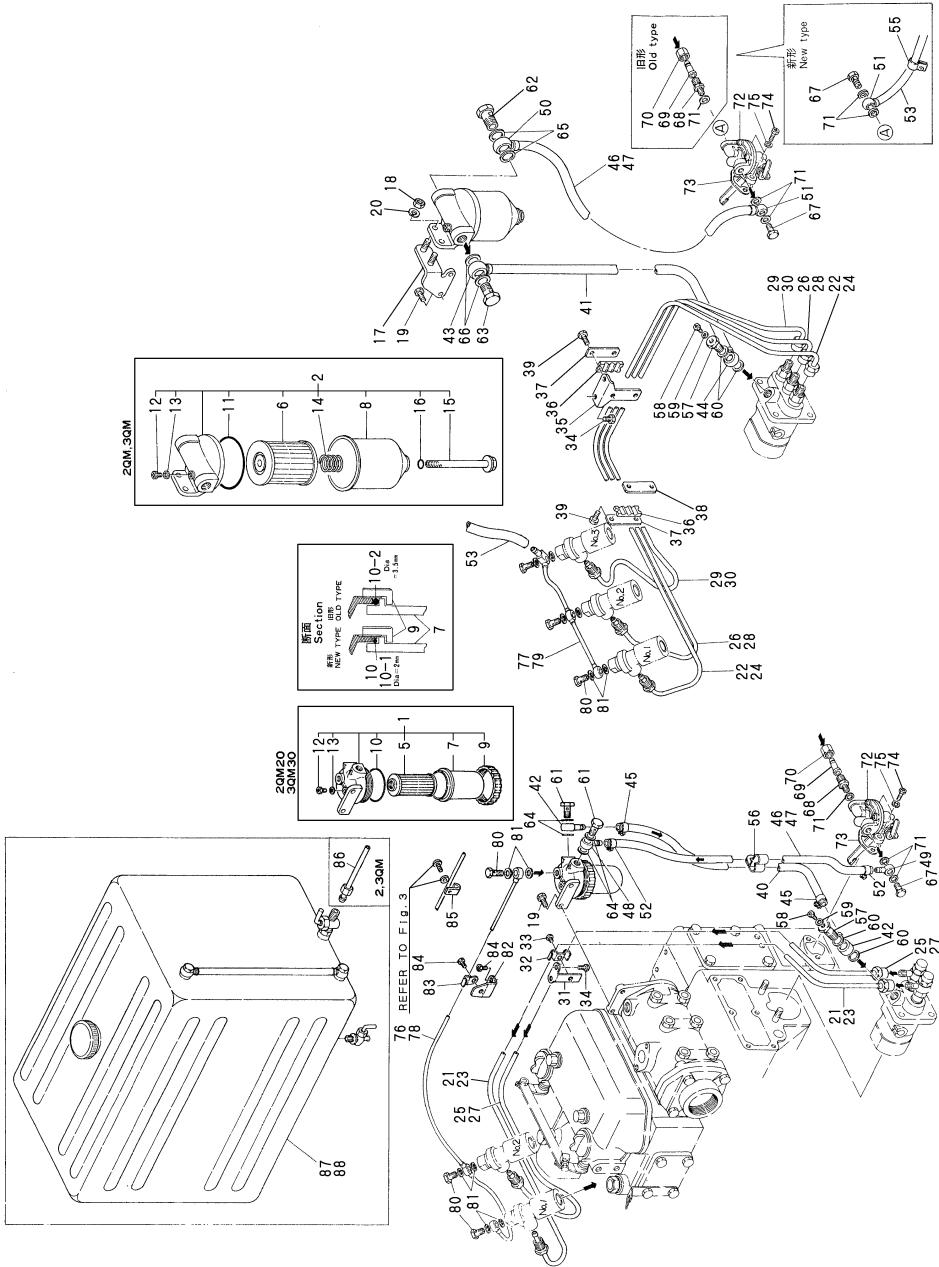


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
36	1	123325-59100	RETAINER, PIPE		2		2				
37	1	123325-59110	COVER		2		2				
38	1	121250-59860	BRACKET		1		1				
39	1	26117-060169	BOLT, M6X 16 PLATED		4		4				
40	1	121370-59010	PIPE ASSY, FUEL	1	1						
41	1	124790-59010	PIPE, FUEL L=335			1	1				
42	2	101304-59020	JOINT, PIPE 12	2	2						
43	2	124223-59850	JOINT			1	1				
44	2	104264-59020	JOINT			1	1				
45	2	124460-59050	BAND	2	2						
46	1	121370-59030	PIPE ASSY, FUEL	1	1						
47	1	124790-59030	PIPE, FUEL L=390			1	1				
48	2	101304-59020	JOINT, PIPE 12	1	1						
49	2	105582-59020	JOINT, PIPE 8	1	1						
50	2	120445-59220	JOINT			1	1				
51	2	104264-59030	JOINT, PIPE 8			1	1				
52	2	124460-59050	BAND	2	2						
53	1	124790-59040	PIPE ASSY, FUEL			1	1				
54	2	104264-59030	JOINT, PIPE 8			1	1				1
55	2	124460-59050	BAND			3	3				
56	1	124770-59160	RETAINER	1	1						
57	1	103854-59200	BOLT, M12	1	1	1	1				
58	1	111154-51900	PLUG	1	1	1	1				
59	1	43400-500390	SEAL WASHER 6S	1	1	1	1				
60	1	23414-120000	GASKET, 12X1.0	2	2	2	2				
61	1	23857-060000	BOLT, JOINT 6	2	2						
62	1	23857-120000	BOLT, JOINT 12			1	1				
63	1	23857-100000	BOLT, JOINT 10			1	1				
64	1	23414-120000	GASKET, 12X1.0	4	4						
65	1	23414-180000	GASKET, 18X1.0			2	2				
66	1	23414-160000	GASKET, 16X1.0			2	2				
67	1	105582-59150	BOLT, PIPE JOINT	1	1	1	1				
68	1	124772-59650	UNION	1	1	1	1				
69	1	124772-59660	JOINT	1	1	1	1				
70	1	124772-59670	NUT, CAP	1	1	1	1				
71	1	23414-080000	GASKET, 8X1.0	3	3	3	3				
72	1	105582-52010	PUMP ASSY, FUEL FEED	1	1	1	1				
73	1	124223-01850	GASKET	1	1	1	1				
74	1	26117-060209	BOLT M 6X 20 PLATED	2	2	2	2				
75	1	22212-060000	SPRING WASHER 6	2	2	2	2				
75-1	1	22217-060000	WASHER, SPRING 6	2	2	2	2				N
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											
76	1	124772-59500	PIPE ASSY, RETURN	1							
77	1	121370-59500	PIPE, FUEL RETURN		1						
78	1	124790-59501	PIPE ASSY, RETURN			1					
79	1	121390-59501	PIPE ASSY, RETURN				1				
80	1	101147-59810	BOLT, PIPE JOINT M8	3	3	2	3				
81	1	23414-080000	GASKET, 8X1.0	6	6	4	6				
82	1	124770-59600	RETAINER	1	1						
83	1	124770-59610	RETAINER	1	1						
84	1	26117-060109	BOLT M 6X 10 PLATED	3	3						

(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
85	1	121400-39240	RETAINER	1	1						
86	1	124223-59400	JOINT, PIPE			1	1				
87	1	83213-003012	TANK (30L), FUEL	1	1	1					
88	1	83211-004013	TANK ASSY, FUEL 40L				1				

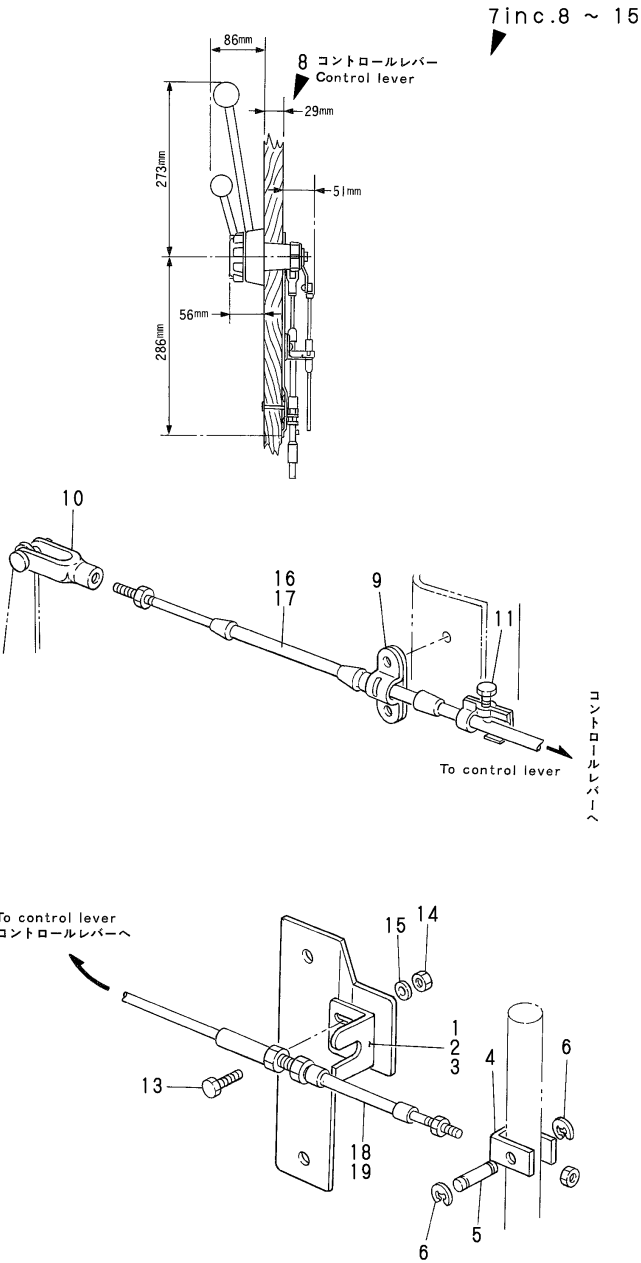


Remarks
(1)NOT ILLUSTRATED.

Fig.16. REMOTE-CONTROL DEVICE(OPTIONAL)

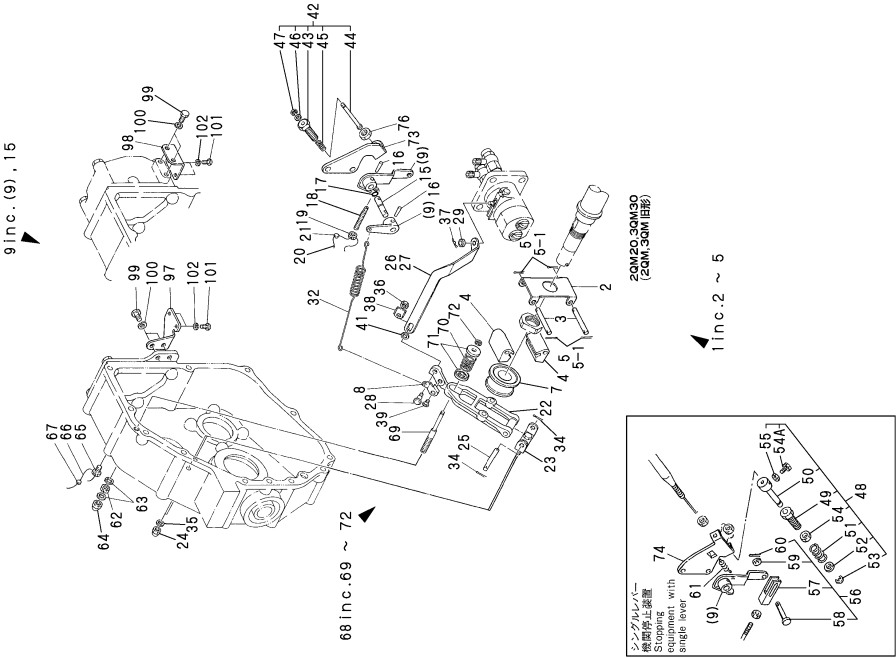
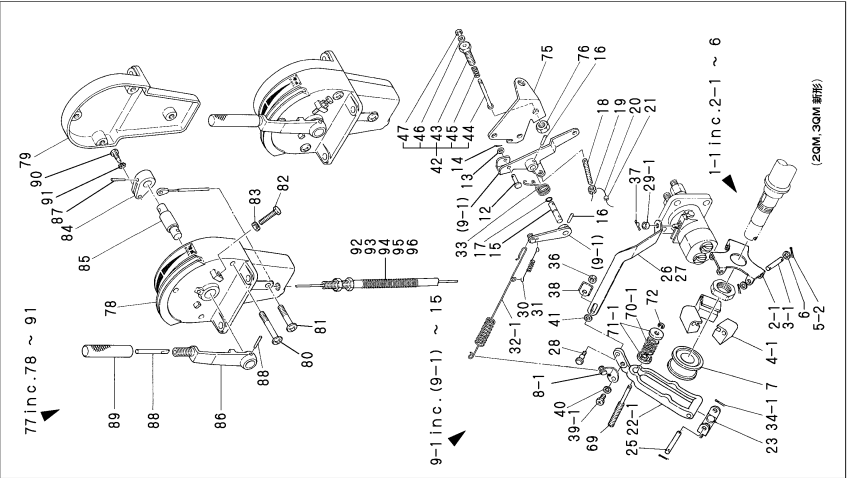
(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=



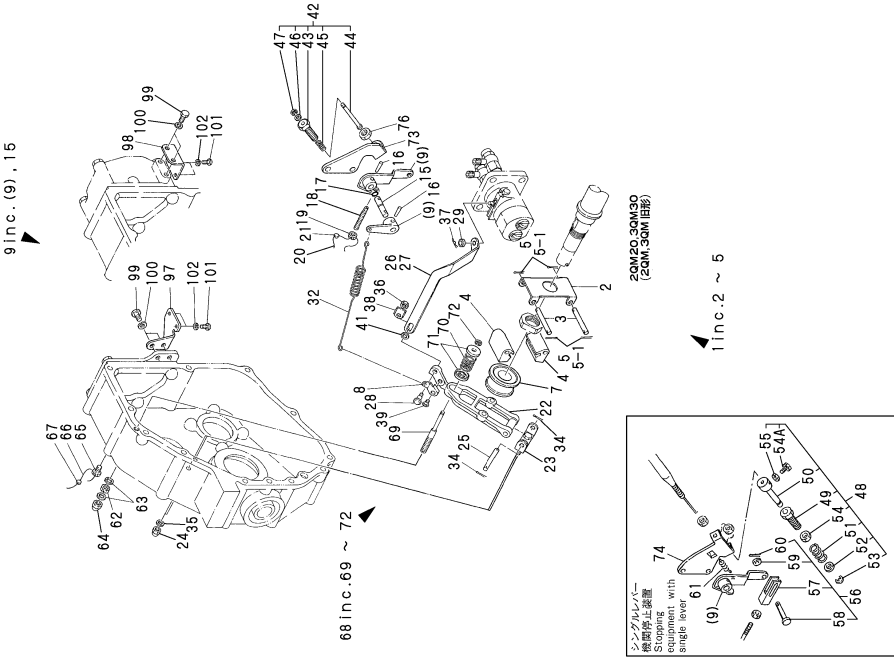
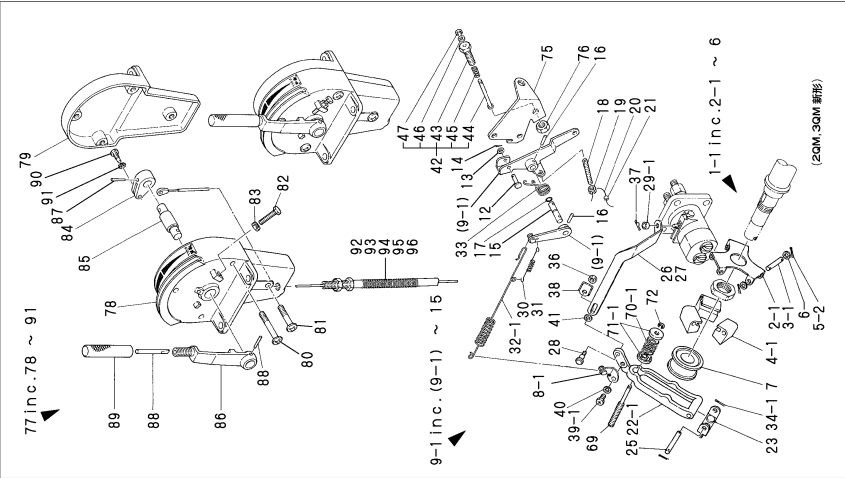
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124772-86100	BRACKET	1							
2	1	121370-86101	BRACKET		1						
3	1	124790-86100	BRACKET			1	1				
4	1	104214-86030	JOINT	1		1	1				
5	1	41710-000860	PIN	1		1	1				
6	1	22272-000070	RING, E- 7	1		1	1				
7	1	704211-67600	CONTROLLER ASSY	1	1	1	1				
8	2	41710-500130	LEVER	1	1	1	1				
9	2	41710-000410	CLAMP	1	1	1	1				
10	2	41710-000400	CLEVIS	1	1	1	1				
11	2	41710-500140	BRAKE	1	1	1	1				
12	2	41710-500160	NUT	1	1	1	1				1
13	2	26117-060169	BOLT, M6X 16 PLATED	2	2	2	2				
14	2	26716-060002	NUT, M6	2	2	2	2				
15	2	22212-060000	SPRING WASHER 6	2	2	2	2				
15-1	2	22217-060000	WASHER, SPRING 6	2	2	2	2			N	
		(A=E XXX) (B=E XXX) (C=E XXX) (D=E XXX)									
16	1	41710-500090	CABLE,REMO-CON	1	1	1	1				
17	1	41710-000380	CABLE L=4000	1	1	1	1				
18	1	41710-500100	CABLE,REMO-CON	1	1	1	1				
19	1	41710-500110	CABLE,REMO-CON	1	1	1	1				
20	1	124772-67110	BRACKET	1	1	1	1				1
21	1	121370-67100	BRACKET	1	1	1	1				1

Remarks
(1)NOT ILLUSTRATED.



Remarks
(1)A PART ADDED AND/OR CHANGED DUE TO CHANGE OF GOVERNOR FROM THE 2-POINT TYPE TO THE 3-POINT TYPE FROM JULY, 1976. CHANGED FROM E/#80394 FOR 2QM AND E/#80346 FOR 3QM.

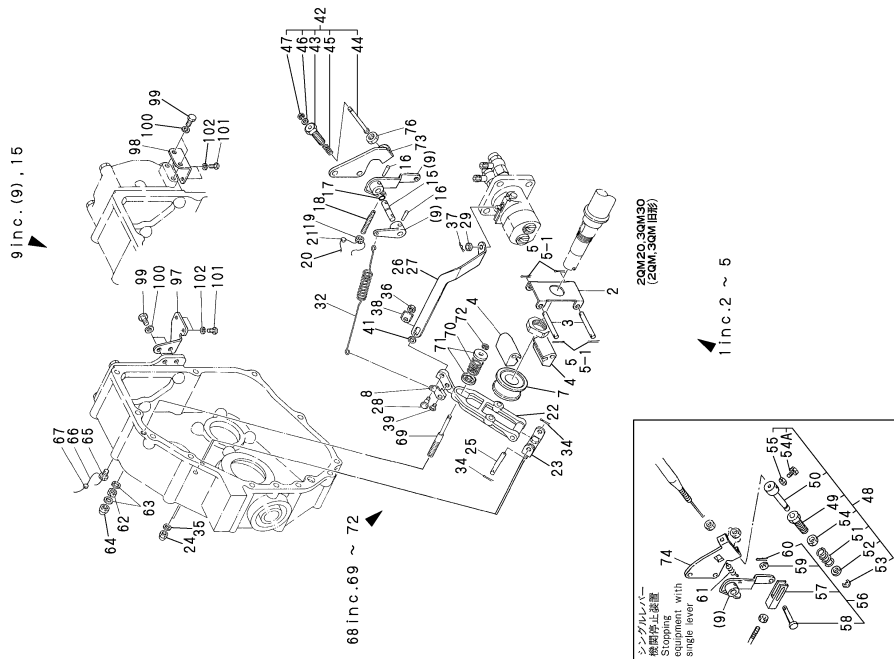
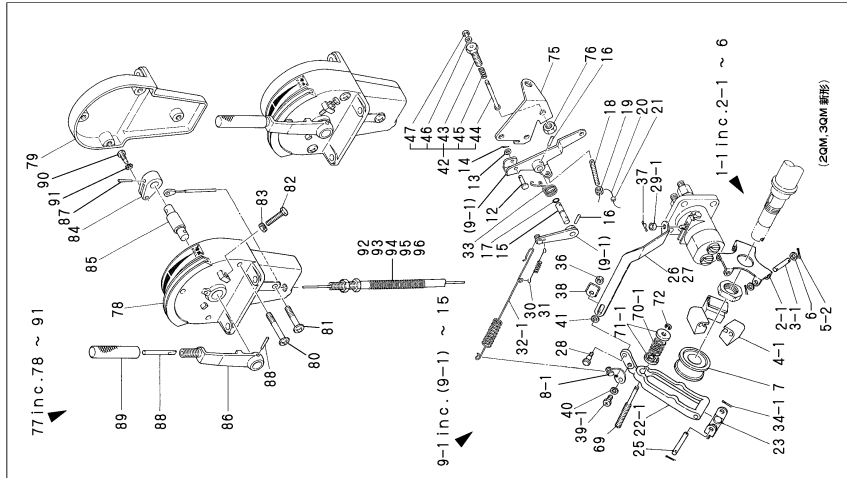
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-61520	SUPPORT ASSY, WEIGHT	1	1	1	1				
1-1	1	724790-61520	SUPPORT ASSY, WEIGHT (C=E/#80394) (D=E/#80346)			1	1			S	1
2	2	124770-61110	SUPPORT	1	1	1	1				
2-1	2	124790-61110	SUPPORT, WEIGHT (C=E/#80394) (D=E/#80346)			1	1			S	1
3	2	124450-61220	PIN, GOVERNOR WEIGHT	2	2	2	2				
3-1	2	124790-61220	PIN, GOVERNOR WEIGHT (C=E/#80394) (D=E/#80346)			3	3			S	1
4	2	124450-61200	WEIGHT, GOVERNOR	2	2	2	2				
4-1	2	124790-61200	WEIGHT, GOVERNOR (C=E/#80394) (D=E/#80346)			3	3			S	1
5	2	22411-200200	PIN 2.0* 20	4	4	4	4				
5-1	2	22417-200200	PIN, COTTER 2.0X20 (A=E/XXX) (B=E/XXX)	4	4					N	
5-2	2	22411-200200	PIN 2.0* 20 (C=E/#80394) (D=E/#80346)			6	6			K	1
5-3	2	22417-200200	PIN, COTTER 2.0X20 (C=E/XXX) (D=E/XXX)			6	6			N	
6	2	22117-060000	WASHER, 6 (C=E/#80394) (D=E/#80346)			6	6			W	1
7	1	124550-61600	SLEEVE, GOVERNOR	1	1	1	1				
8	1	124450-66460	BRACKET	1	1	1	1				
8-1	1	124790-66460	BRACKET (C=E/#80394) (D=E/#80346)			1	1			S	1
9	1	724770-66530	HANDLE ASSY	1	1	1	1				
9-1	1	724790-66530	HANDLE ASSY (C=E/XXX) (D=E/XXX)			1	1			R	
12	2	124790-66950	PIN (C=E/#80394) (D=E/#80346)			1	1			W	1
13	2	22113-040000	WASHER, 4 (C=E/#80394) (D=E/#80346)			1	1			W	1
14	2	22414-160100	PIN, COTTER 1.6X10 (C=E/#80394) (D=E/#80346)			1	1			W	1
15	2	124450-66040	SHAFT, HANDLE	1	1	1	1				
16	1	22322-030180	PIN, TAPER 3X18	2	2	2	2				
17	1	24311-000070	O-RING, 1AP7.0	1	1	1	1				
18	1	103854-66420	SCREW	1	1		1				
18-1	1	124550-66420	SCREW (A=E/XXX) (C=E/XXX)	1	1	1				N	
19	1	124550-66370	NUT, M6	1	1	1	1				
20	1	22451-100000	WIRE, 1.0	1	1	1	1				
21	1	135210-61090	LEAD	1	1	1	1				
22	1	124460-66611	LEVER ASSY, GOVERNOR	1	1	1	1				
22-1	1	124790-66600	LEVER, GOVERNOR (C=E/#80394) (D=E/#80346)			1	1			S	1
23	1	124770-66510	SUPPORT	1	1	1	1				
24	1	124450-66520	NUT, CAP	1	1	1	1				
25	1	124450-66550	PIN	1	1	1	1				
26	1	124465-66400	LINK, GOVERNOR	1		1					
27	1	121250-66400	LINK, GOVERNOR			1	1				



Remarks
(1)A PART ADDED AND/OR CHANGED DUE TO CHANGE OF GOVERNOR FROM THE 2-POINT TYPE TO THE 3-POINT TYPE FROM JULY, 1976. CHANGED FROM E/#80394 FOR 2QM AND E/#80346 FOR 3QM.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
28	1	124450-66411	SCREW	1	1	1	1				
29	1	124450-66420	RETAINER	1	1	1	1				
29-1	1	124790-66420	SPACER			1	1			S	
(C=E/#80236) (D=E/#80226)											
29-2	1	124450-66420	RETAINER			1	1			S	1
(C=E/#80394) (D=E/#80346)											
30	1	124790-66150	SPRING			1				W	
(C=E/#80236)											
30-1	1	124790-66200	SPRING			1				S	1
(C=E/#80394)											
30-2	1	124790-66201	SPRING			1				N	
(C=*1976.11)											
31	1	121390-66150	SPRING				1			W	
(D=E/#80226)											
31-1	1	124790-66200	SPRING				1			S	
(D=E/#80346)											
31-2	1	124790-66201	SPRING				1			N	
(D=*1976.11)											
32	1	124772-66010	SPRING, REGULATOR	1	1	1	1				
32-1	1	124790-66010	SPRING, REGULATOR			1	1			S	1
(C=E/#80394) (D=E/#80346)											
33	1	124790-66081	SPRING, RETURN			1	1			W	
(C=E/#80236) (D=E/#80226)											
34	1	22411-200200	PIN 2.0* 20	2	2	2	2				
34-1	1	22417-200200	PIN, COTTER 2.0X20	2	2	2	2			N	
(A=E/XXX) (B=E/XXX) (C=E/XXX) (D=E/XXX)											
35	1	23414-060000	GASKET, 6X1.0	2	2	2	2				
36	1	26756-050002	NUT, LOCK M5	1	1	1	1				
37	1	22360-060000	PIN, SNAP 6	1	1	1	1				
38	1	124460-66400	WASHER	1	1	1	1				
39	1	26557-060082	SCREW, M6X 8	1	1	1	1				
39-1	1	26117-060129	BOLT M 6X 12 PLATED			1	1			N	
(C=E/XXX) (D=E/XXX)											
40	1	22212-060000	SPRING WASHER 6			1	1				
40-1	1	22217-060000	WASHER, SPRING 6			1	1			N	
(C=E/XXX) (D=E/XXX)											
41	1	124450-66430	SPACER	1	1	1	1				
42	1	124770-66700	ADJUSTER ASSY	1	1	1	1				
43	2	124770-66711	BODY	1	1	1	1				
44	2	124770-66731	PIN	1	1	1	1				
45	2	124770-66720	SPRING, ADJUSTER	1	1	1	1				
46	2	22137-050000	WASHER, 5	1	1	1	1				
47	2	22272-000040	RING, E- 4	1	1	1	1				
48	1	124772-66700	ADJUSTER ASSY	1	1						
49	2	124772-66710	BODY	1	1						
50	2	124772-66730	PIN	1	1						
51	2	124772-66720	SPRING, ADJUSTER	1	1						
52	2	124772-66760	WASHER	1	1						
53	2	22272-000040	RING, E- 4	1	1						
54	2	124772-66750	NUT, LOCK M12	1	1						
54A	2	26113-050128	BOLT, M5X 12	1	1						

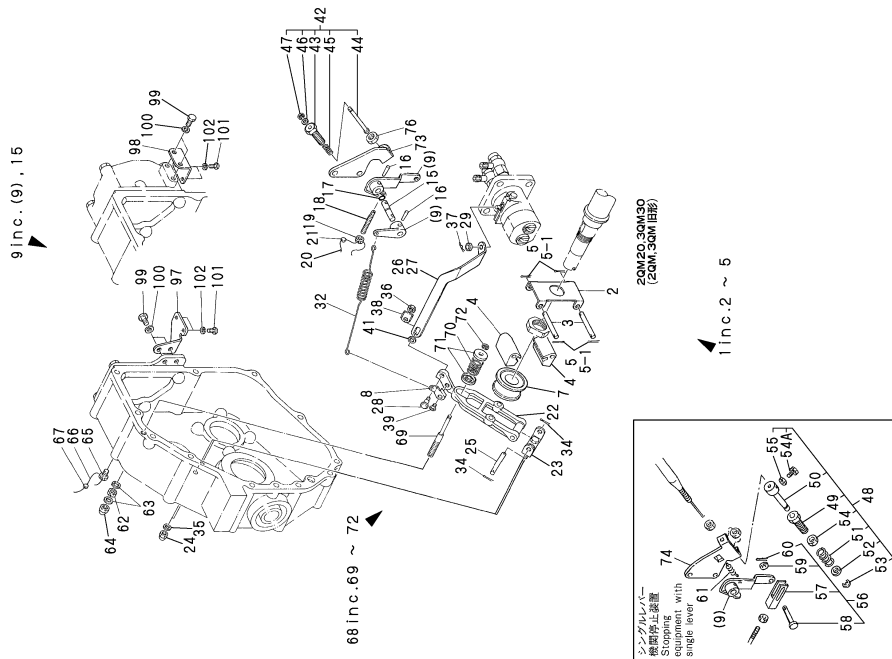
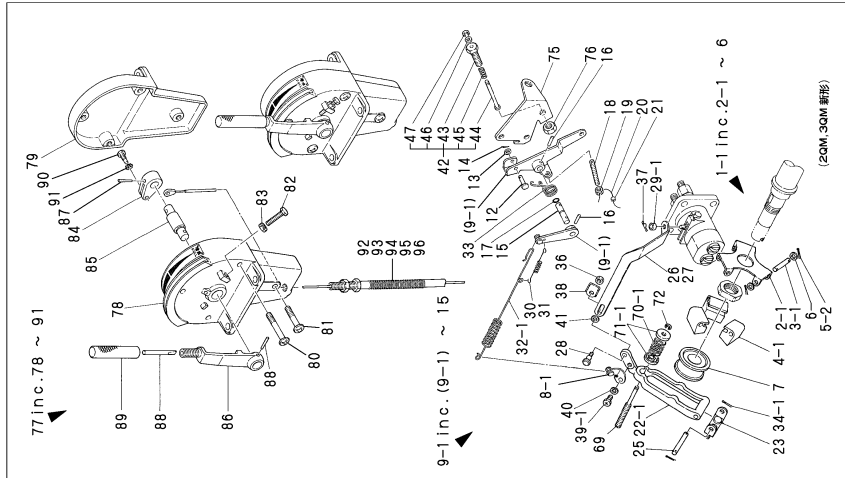
Fig.17. GOVERNOR



(1)A PART ADDED AND/OR CHANGED DUE TO CHANGE OF GOVERNOR FROM THE 2-POINT TYPE TO THE 3-POINT TYPE FROM JULY, 1976. CHANGED FROM E/#80394 FOR 2QM AND E/#80346 FOR 3QM.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
55	2	26753-050002	NUT, LOCK M5	1	1						
56	1	124772-66200	CLEVIS ASSY	1	1						
57	2	124772-66210	CLEVIS	1	1						
58	2	124772-66220	PIN	1	1						
59	2	22113-050000	WASHER, 5	1	1						
60	2	22414-160100	PIN, COTTER 1.6X10	1	1						
61	1	124772-66090	SPRING, RETURN	1	1						
62	1	124772-66890	NUT	1	1	1	1				
63	1	23414-080000	GASKET, 8X1.0	2	2	2	2				
64	1	26667-080002	NUT, CAP M8	1	1	1	1				
65	1	26116-060086	BOLT, M6X 8 PLATED	1	1	1	1				W
		(A=E/#82023)	(B=E/#80111)	(C=E/#80266)	(D=E/#80226)						
66	1	22451-100000	WIRE, 1.0	1	1	1	1				W
		(A=E/#82023)	(B=E/#80111)	(C=E/#80256)	(D=E/#80226)						
67	1	135210-61090	LEAD	1	1	1	1				W
		(A=E/#82023)	(B=E/#80111)	(C=E/#80256)	(D=E/#80226)						
68	1	124772-66800	LIMITER ASSY, FUEL	1	1	1	1				
69	2	124772-66810	SHAFT	1	1	1	1				
70	2	124772-66820	SPRING	1	1	1	1				
70-1	2	124772-66830	RETAINER	2	2	2	2				S
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)						
71	2	124772-66830	RETAINER	1	1	1	1				
71-1	2	124772-66840	RETAINER	1	1	1	1				W
		(A=*1976.07)	(B=*1976.07)	(C=*1976.07)	(D=*1976.07)						
72	2	22272-000040	RING, E- 4	1	1	1	1				
73	1	124770-66740	BRACKET, ADJUSTER	1	1						
74	1	124772-66740	BRACKET, ADJUSTER	1	1						
75	1	124790-66740	BRACKET, ADJUSTER			1	1				
76	1	26757-100002	NUT, LOCK M10	1	1	1	1				
76-1	1	26756-100002	NUT, LOCK M10	1	1	1	1				N
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)						
77	1	81701-000101	BRACKET ASSY			1	1				
78	2	41701-000201	BRACKET			1	1				
79	2	41701-000221	COVER, BRACKET			1	1				
80	2	26584-080552	SCREW M 8X 55			3	3				
81	2	26584-080452	SCREW M 8X 45			1	1				
82	2	125310-67280	BOLT			1	1				
83	2	125310-67290	NUT			1	1				
84	2	41701-000241	LEVER			1	1				
85	2	41701-000260	SHAFT			1	1				
86	2	41701-000281	HANDLE			1	1				
87	2	22322-040300	PIN, TAPER 4X30			2	2				
88	2	125310-67270	RETAINER			1	1				
89	2	125310-67260	KNOB			1	1				
90	2	41701-000361	PIN			1	1				
91	2	41701-001240	WASHER			1	1				
92	1	41701-000430	CABLE,REMO-CON.			1	1				2
93	1	41701-000440	CABLE,REMO-CON.			1	1				2
94	1	41701-000450	CABLE,REMO-CON.			1	1				2
95	1	41701-000460	CABLE,REMO-CON.			1	1				2
96	1	41701-000470	CABLE,REMO-CON.			1	1				2

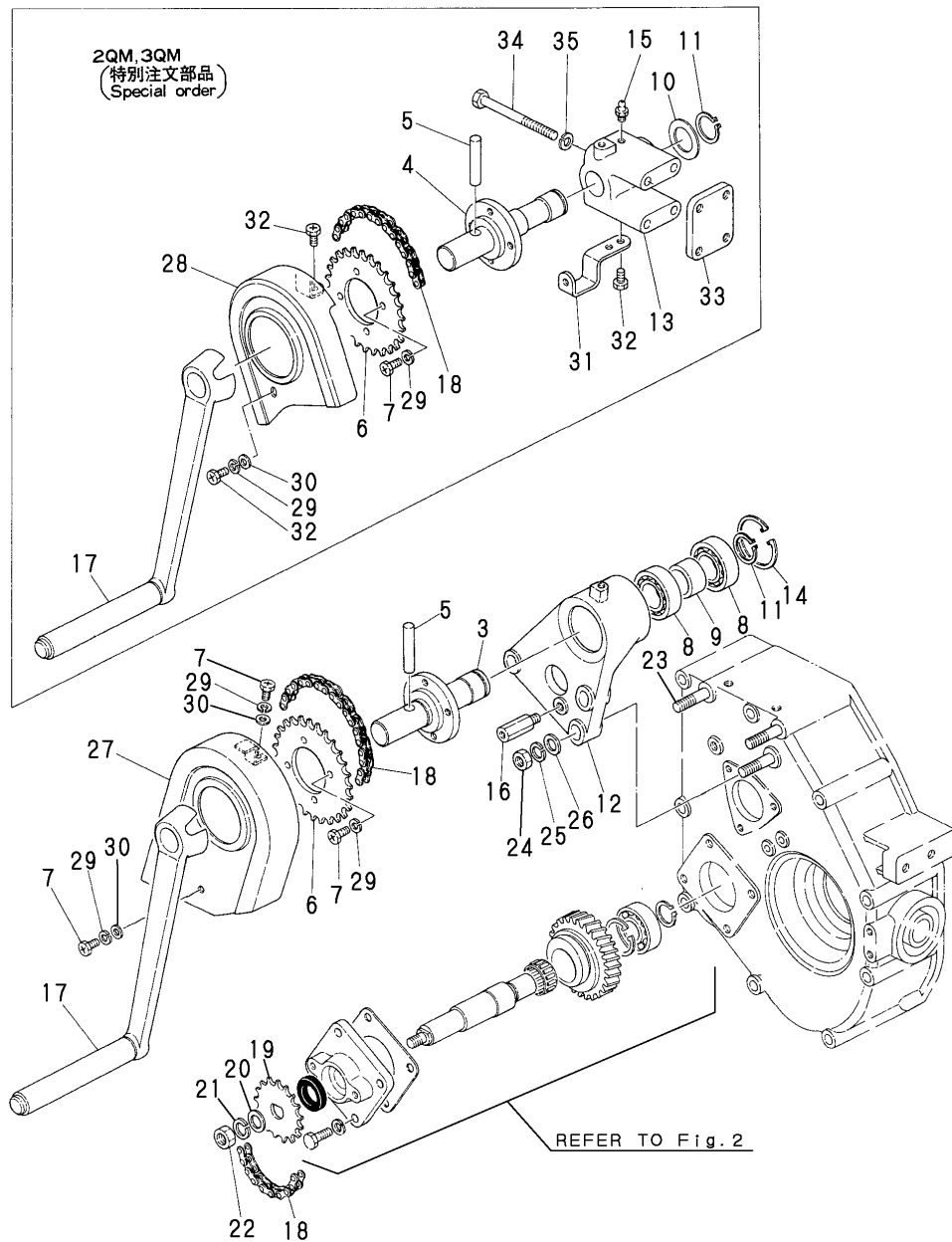
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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[illegible]

(1)A PART ADDED AND/OR CHANGED DUE TO CHANGE OF GOVERNOR FROM THE 2-POINT TYPE TO THE 3-POINT TYPE FROM JULY, 1976. CHANGED FROM E/#80394 FOR 2QM AND E/#80346 FOR 3QM.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.18. HAND STARTING MECHANISM

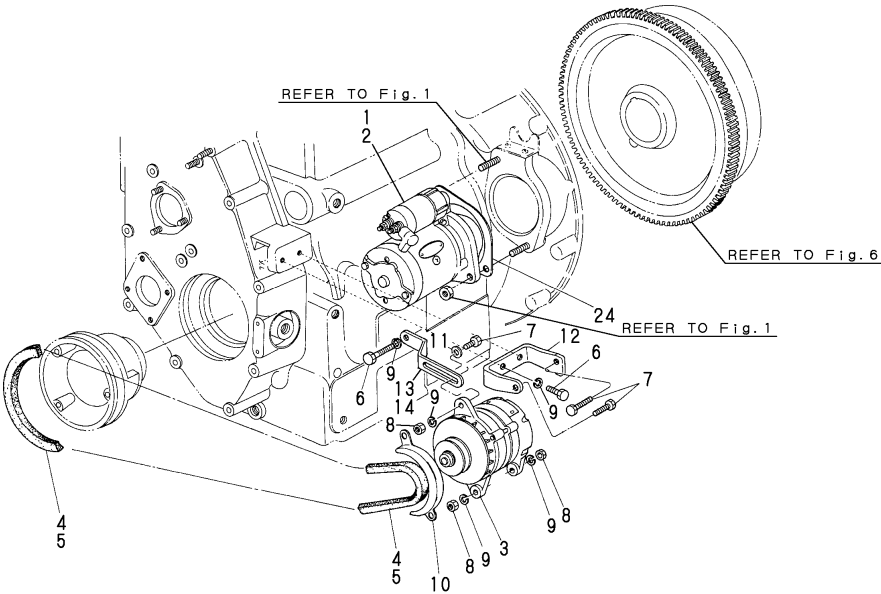
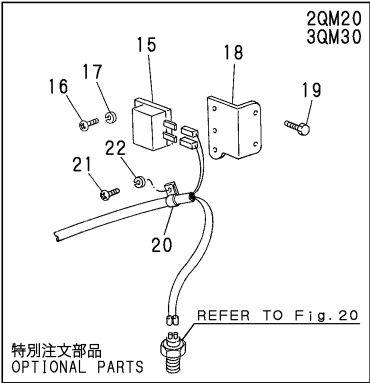


REFER TO Fig. 2

No.	Lev.	Parts No.	Description	(A)=2QM20 (B)=3QM30 (C)=2QM			(D)=3QM (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-76110	STARTER ASSY	1	1						
2	1	724790-76110	STARTER ASSY			1	1				
3	2	124770-76200	SHAFT, STARTING	1	1						
4	2	124790-76200	SHAFT, STARTING			1	1				
5	2	22312-100500	PIN, PARALLEL M10X50	1	1	1	1				
6	2	124770-76010	SPROCKET	1	1	1	1				
7	2	26117-060129	BOLT M 6X 12 PLATED	6	6	4	4				
8	2	24104-062054	BEARING, BALL 6205UU	2	2						
9	2	124770-76280	SPACER	1	1						
10	2	124790-76250	SPACER			1	1				
11	2	22242-000250	RING, 25	1	1	1	1				
12	2	124770-76300	SUPPORT	1	1	1	1				
13	2	124790-76300	SUPPORT			1	1				
14	2	22252-000520	RING, 52	1	1						
15	2	24764-010000	NIPPLE, GREASE M6F			1	1				
16	2	124770-76180	BOLT	1	1						
17	2	125110-76800	HANDLE, STARTING	1	1	1	1				
18	2	25210-430670	CHAIN, 43X 67	1	1	1	1				
19	2	124770-76100	SPROCKET	1	1	1	1				
20	2	22137-100000	WASHER, 10	1	1	1	1				
21	2	22212-100000	WASHER, 10	1	1	1	1				
21-1	2	22217-100000	WASHER, SPRING 10	1	1	1	1				N
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)							
22	2	26736-100002	NUT, M10	1	1	1	1				
23	2	26226-100382	STUD, M10X 38	3	3						
24	2	26716-100002	NUT, M10	3	3						
25	2	22212-100000	WASHER, 10	3	3						
25-1	2	22217-100000	WASHER, SPRING 10	3	3						N
	(A=EXXX)	(B=EXXX)									
26	2	22137-100000	WASHER, 10	3	3						
27	2	124770-76170	COVER, CHAIN	1	1						
28	2	124790-76170	COVER, CHAIN			1	1				
29	2	22212-060000	SPRING WASHER 6	6	6	5	5				
29-1	2	22217-060000	WASHER, SPRING 6	6	6	5	5				N
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)							
30	2	22137-060000	WASHER, 6	2	2	1	1				
31	2	124790-76190	BRACKET			1	1				
32	2	26117-060129	BOLT M 6X 12 PLATED			4	4				
33	2	124790-76310	RETAINER			1	1				
34	2	26116-080902	BOLT, M8X 90 PLATED			4	4				
35	2	22212-080000	SPRING WASHER 8			4	4				
35-1	2	22217-080000	WASHER, SPRING 8			4	4				N
			(C=EXXX)	(D=EXXX)							

Fig.19. STARTING MOTOR & GENERATOR

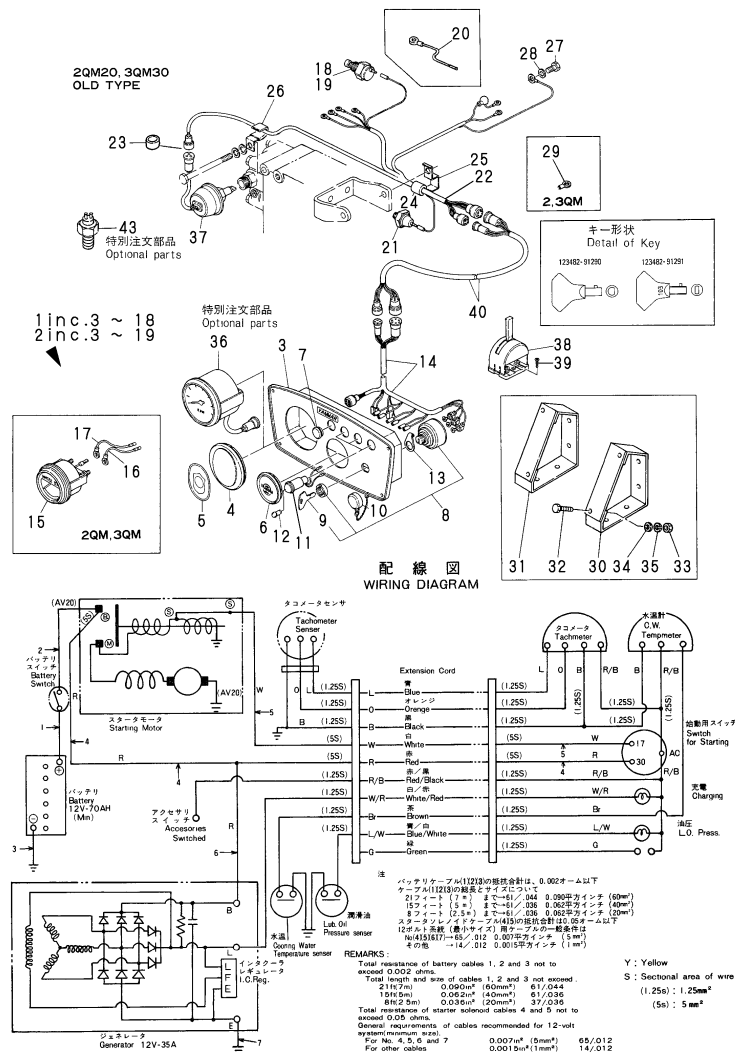
P/C NEWS No:Y00R0919-1
PUBLISHED:2005/9



										OCR10-M09109 Fig.19	
										(A)=2QM20 (B)=3QM30 (C)=2QM	
										(D)=3QM (E)= (F)=	
										Q'ty	
										(A) (B) (C) (D) (E) (F)	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	124770-77010	STARTER	1							
2	1	121370-77010	STARTER, S12-47		1	1	1				
3	1	121370-77200	GENERATOR, LR135-31	1	1	1	1				
4	1	124772-42780	V-BELT	1	1	1	1				
4-1	1	124772-77350	V-BELT, HM32	1	1	1	1			N	
(A=E)XXX (B=E)XXX (C=E)XXX (D=E)XXX											
5	1	124240-42291	V-BELT, A37			1	1				
6	1	26116-080222	BOLT, M8X 22 PLATED	3	3	2	2				
7	1	26116-080302	BOLT, M8X 30 PLATED	3	3	3	3				
8	1	26716-080002	NUT, M8	3	3	3	3				
9	1	22212-080000	SPRING WASHER 8	6	6	5	5				
9-1	1	22217-080000	WASHER, SPRING 8	6	6	5	5			N	
(A=E)XXX (B=E)XXX (C=E)XXX (D=E)XXX											
10	1	121250-77210	COVER, GENERATOR	1	1	1	1				
11	1	22137-080000	WASHER, 8	1	1	1	1				
12	1	124770-77250	BRACKET, GENERATOR	1	1	1	1				
13	1	124770-77330	ADJUSTER, BELT	1	1						
14	1	124790-77330	ADJUSTER, BELT			1	1				
15	1	124070-77800	BOX, FUSE	1	1					W	
(A=E/#85658) (B=E/#81661)											
15-1	1	124070-77801	BOX, FUSE	1	1					N	
(A=E/#87587) (B=E/#83271)											
16	1	26557-050162	SCREW, M5X16	2	2					W	
(A=E/#85658) (B=E/#81661)											
17	1	22212-050000	SPRING WASHER 5	2	2					W	
(A=E/#85658) (B=E/#81661)											
18	1	124772-77810	BRACKET	1	1					W	
(A=E/#85658) (B=E/#81661)											
19	1	26116-080142	BOLT 8X14	2	2					W	
(A=E/#85658) (B=E/#81661)											
20	1	105584-59870	RETAINER, PIPE	1	1					W	
(A=E/#85658) (B=E/#81661)											
21	1	26557-050082	SCREW, M5X 8	1	1					W	
(A=E/#85658) (B=E/#81661)											
22	1	22212-060000	SPRING WASHER 6	1	1					W	
(A=E/#85658) (B=E/#81661)											
23	1	46150-003660	FUSE	1	1					W	1
(A=E/#85658) (B=E/#81661)											
23-1	1	46150-003680	FUSE 30A	1	1					N	1
(A=E/#87587) (B=E/#83271)											
24	1	124770-77081	GASKET	1	1						

Remarks
(1)NOT ILLUSTRATED.

Fig.20. INSTRUMENT PANEL

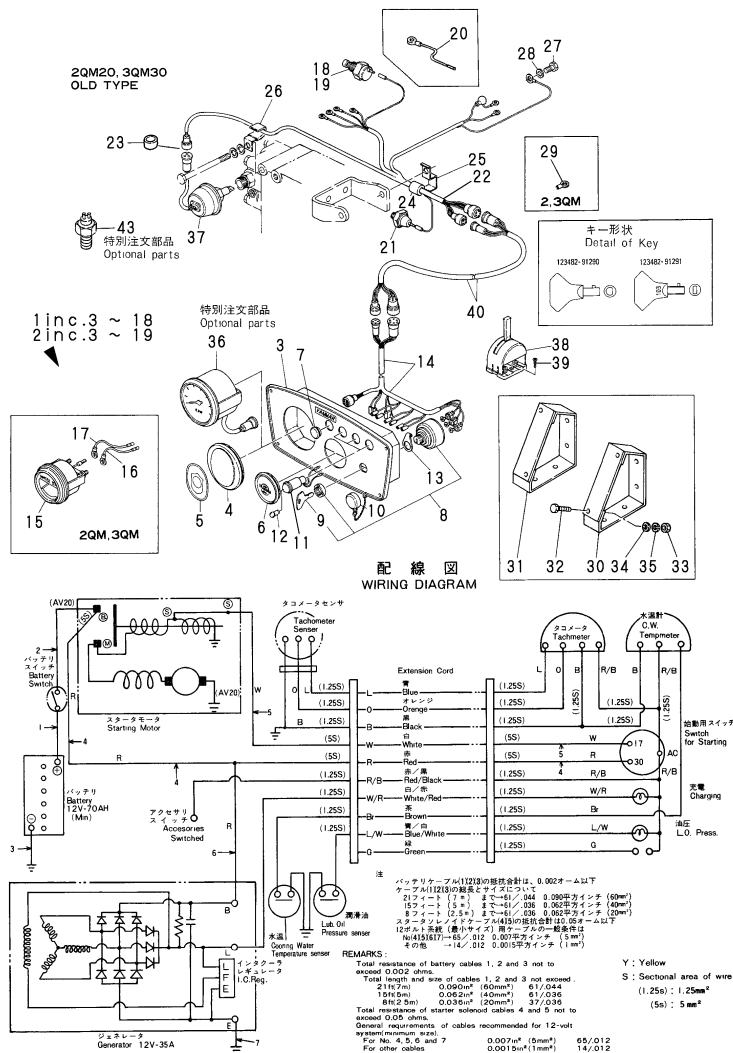


- (1)NEW TYPE REFER TO FIG.21.
- (2)EXCLUSIVE FOR 123482-91250
- (3)EXCLUSIVE FOR 123482-91251
- (4)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.20.
- (5)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.18-1.
- (6)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.19-1.
- (7)REFER TO FIG.21 FOR ILLUSTRATED.

				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=				
No.	Lev.	Parts No.	Description	Q'ty				I	R				
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	124770-91000	PANEL ASSY	1	1					Z	1		
		(A=E/#85657)	(B=E/#81660)										
2	1	124790-91000	PANEL ASSY			1	1						
3	2	124770-91010	BODY, PANEL	1	1	1	1						
4	2	124770-91200	COVER	1	1	1	1						
5	2	101400-55440	LABEL, "YANMAR"	1	1	1	1						
6	2	124770-91220	COVER	1	1								
7	2	124770-91230	COVER	1	1	1	1						
8	2	124770-91250	SWITCH, KEY 24V	1	1	1	1						
8-1	2	123482-91250	SWITCH, KEY	1	1	1	1			N			
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)								
8-2	2	123482-91251	SWITCH ASSY	1	1	1	1			N			
		(A=*1978.09)	(B=*1978.09)	(C=*1978.09)	(D=*1978.09)								
9	3	124770-91290	KEY	1	1	1	1						
9-1	3	123482-91290	KEY, SWITCH	1	1	1	1			S	2		
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)								
9-2	3	123482-91291	KEY	1	1	1	1			S	3		
		(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)								
10	2	124770-91260	CAP, SWITCH	1	1	1	1						
11	2	124770-91040	LAMP, PILOT 12V 3.4W	3	3	2	2						
12	3	46150-001110	BULB(12V3W/G11.BA9S)	3	3	2	2						
13	2	124770-91270	CLAMP	1	1	1	1						
14	2	124770-91030	HARNESS, WIRE	1	1	1	1						
15	2	124790-91400	THERMOMETER, WATER			1	1						
16	2	124790-91430	CORD			1	1						
17	2	124790-91440	CORD			1	1						
18	2	46150-004530	SENDER UNIT, CW	1	1								
18-1	2	123682-91340	SWITCH, 60	1	1					F	4		
		(A=E/#86262)	(B=E/#82258)										
19	2	46150-400590	SENDER UNIT, CW			1	1						
19-1	2	144626-91590	SENDER UNIT, CW			1	1			N			
			(C=EXXX)	(D=EXXX)									
19-2	2	144626-91570	SENDER UNIT, CW			1	1			S			
			(C=E/#81931)	(D=E/#81847)									
20	1	124790-91440	CORD	1	1					W			
		(A=E/#86262)	(B=E/#82258)										
21	1	124160-39450	SWITCH, 0.5KG	1	1	1	1						
22	1	121370-77920	HARNESS, WIRE	1	1	1	1						
22-1	1	124772-77920	HARNESS, WIRE	1	1					N			
		(A=*1978.05)	(B=*1978.05)										
22-2	1	124772-77921	HARNESS, WIRE	1	1					F	5		
		(A=E/#86262)	(B=E/#82258)										
22-3	1	124790-77920	HARNESS, WIRE			1	1			F	6		
			(C=E/#81931)	(D=E/#81847)									
23	1	124770-77980	CAP	1	1	1	1						
24	1	124770-77940	PROTECTOR	1	1	1	1						
25	1	124770-77950	CLAMP	1	1	1	1						
26	1	124770-77960	CLAMP	1	1	2	2						
27	1	26117-080129	BOLT M 8X 12	1	1	1	1						
28	1	22137-080000	WASHER, 8	1	1	1	1						
29	1	124223-77840	TERMINAL SET			1	1			Z			

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.20. INSTRUMENT PANEL



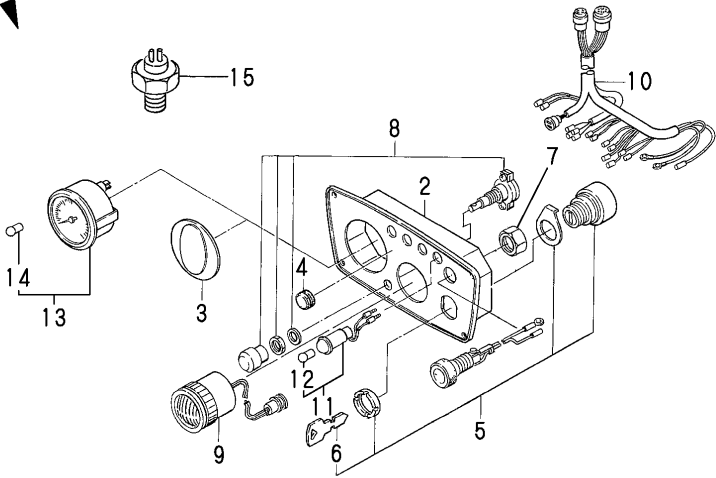
- (1) NEW TYPE REFER TO FIG.21.
- (2) EXCLUSIVE FOR 123482-91250
- (3) EXCLUSIVE FOR 123482-91251
- (4) INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.20.
- (5) INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.18-1.
- (6) INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.19-1.
- (7) REFER TO FIG.21 FOR ILLUSTRATED.

[illegible][illegible]

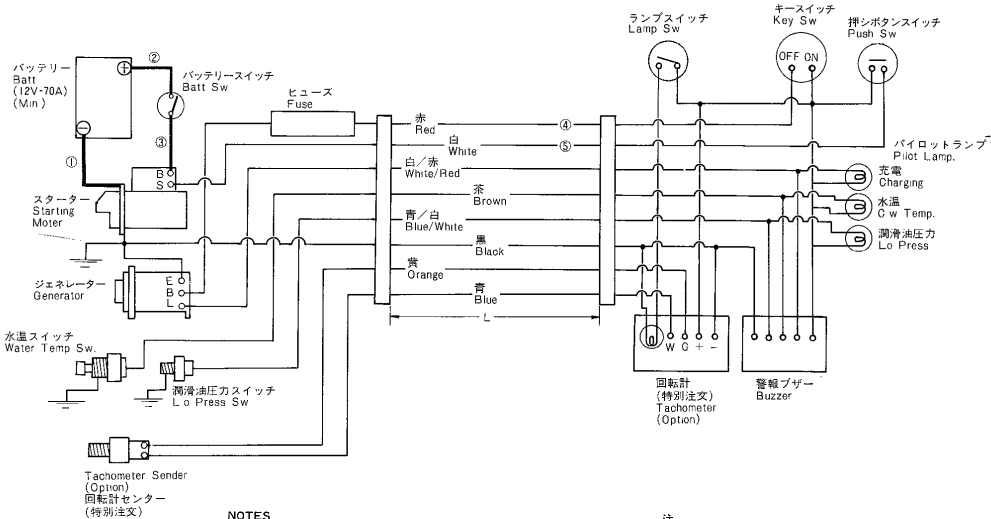
N:Old $\xleftrightarrow{\text{Yes}} \text{New}$, Q:Old $\xleftrightarrow{\text{No}} \text{New}$, R:Old $\xleftrightarrow{\text{Yes}} \text{New}$, S:Old $\xleftrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.21. INSTRUMENT PANEL

1inc.2 ~ 12



配線図
WIRING DIAGRAM



NOTES

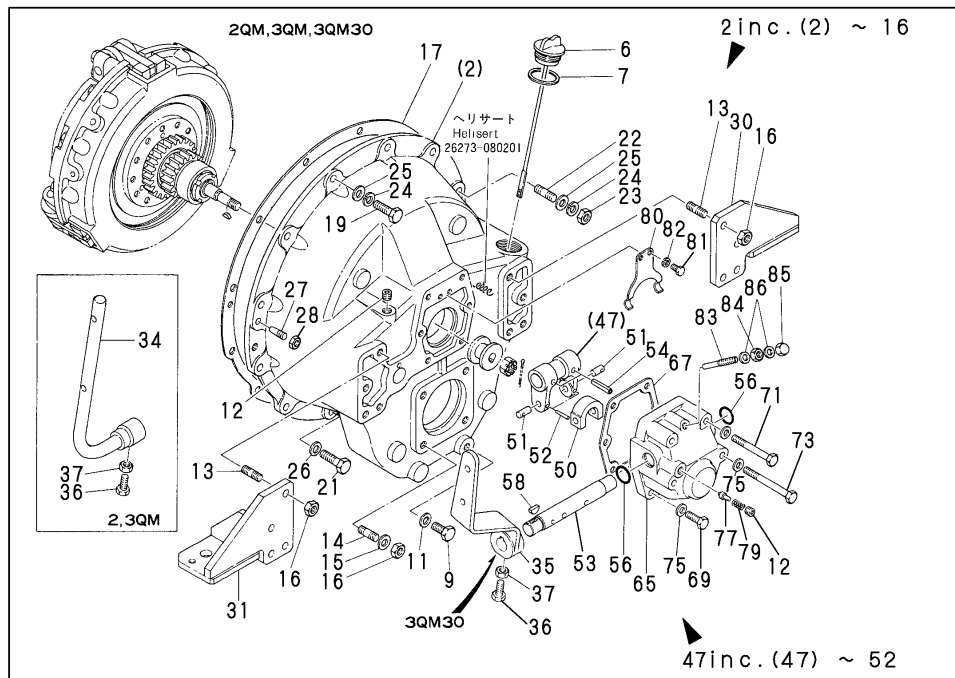
Total resistance of battery cables ①, ② and ③ not to exceed 0.002 ohms
Guide to total length and size of cables 1, 2 and 3
Length up to not exceeding
21ft (7m) → 60mm²
15ft (5m) → 40mm²
8ft (2.5m) → 20mm²
(L)=less than 3m No ④ and ⑤ → 5mm² other cables → 1mm²(min)
(L)=less than 6m No ④ and ⑤ → 8mm² other cables → 2mm²(min)

注

バッテリーケーブル①②③の抵抗合計は、
0.002オーム以下
ケーブル①②③の総長とサイズについて
次の長さを越えないこと。
21フィート(7m)迄 60mm²
15フィート(5m)迄 40mm²
8フィート(2.5m)迄 20mm²
(L)=3m以下: ④と⑤ 5mm²
その他のケーブル 1mm²以上
(L)=6m以下: ④と⑤ 8mm²
その他のケーブル 2mm²以上

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124070-91000	PANEL ASSY	1	1						
2	2	124070-91010	PANEL, INSTRUMENT	1	1						
3	2	124770-91200	COVER	1	1						
4	2	124770-91230	COVER	1	1						
5	2	124070-91250	SWITCH, KEY	1	1						
6	3	124070-91290	KEY, SWITCH	1	1						
7	2	124070-91300	SWITCH	1	1						
8	2	124070-91310	SWITCH	1	1						
9	2	104271-91350	BUZZER	1	1						
10	2	124070-91030	HARNESS, WIRE	1	1						
11	2	124770-91040	LAMP, PILOT 12V 3.4W	3	3						
12	3	124770-91040	LAMP, PILOT 12V 3.4W	3	3						
13	1	104571-91100	TACHOMETER	1	1						
14	2	46150-001110	BULB(12V3W/G11.BA9S)	1	1						
15	2	124070-91160	SENSOR	1	1						

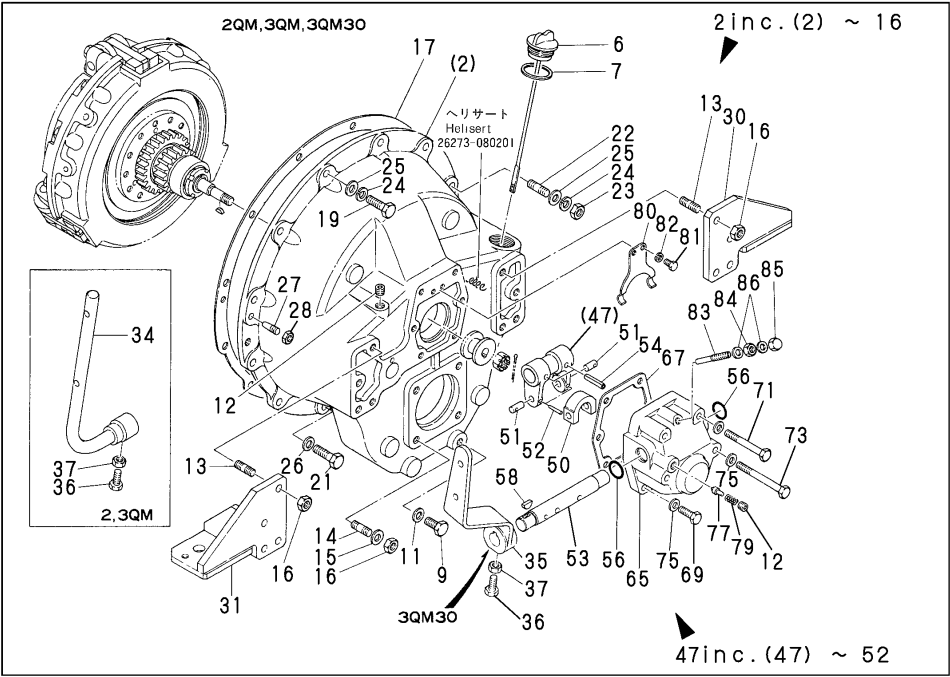
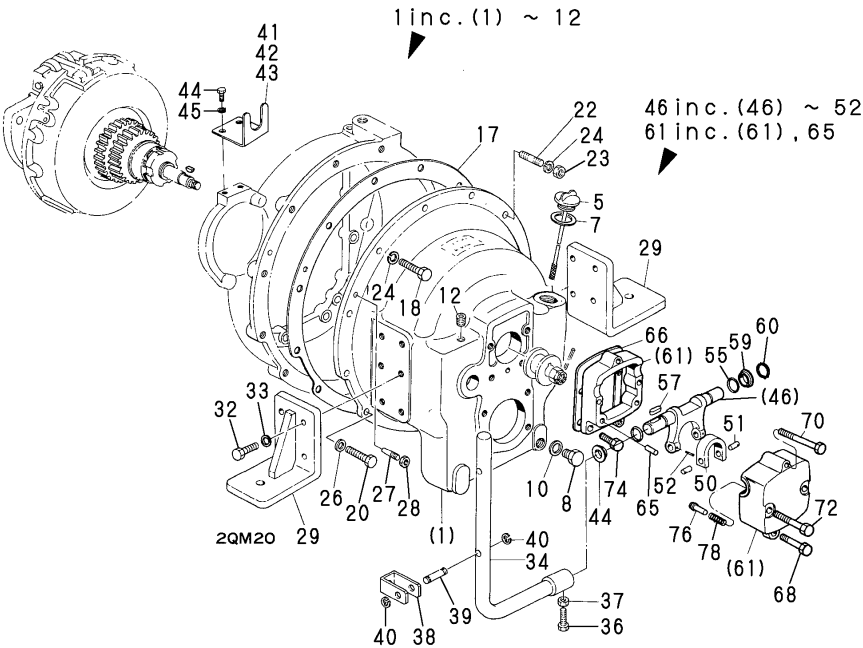
Fig.22. CLUTCH HOUSING



				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	724770-82550	HOUSING ASSY, CLUTCH	1							
1-1	1	724770-82551	HOUSING ASSY, CLUTCH	1						N	
(A=EXXX)											
2	1	776000-02550	HOUSING ASSY, CLUTCH		1	1	1				
5	2	124770-82900	COVER	1							
6	2	176000-02901	COVER		1	1	1				
7	2	101104-01760	GASKET, CAP	1	1	1	1				
8	2	23883-160002	PLUG, 16	1							
9	2	26114-100222	BOLT M10X 22		1	1	1				
10	2	23414-160000	GASKET, 16X1.0	1							
11	2	23414-100000	GASKET, 10X1.0		1	1	1				
12	2	23873-010000	PLUG, R01	1	2	2	2				
13	2	26226-100222	STUD, M10X 22		8	8	8				
14	2	26226-100202	STUD, M10X 20		4	4	4				
15	2	22117-100000	WASHER, 10		4	4	4				
16	2	26716-100002	NUT, M10		12	12	12				
17	1	124770-82031	GASKET	1	1	1	1				
18	1	26116-100302	BOLT, M10X 30 PLATED	6							
19	1	26116-100352	BOLT, M10X 35 PLATED		6	6	6				
20	1	26113-100302	BOLT M10X 30	2							
21	1	26113-100352	BOLT 10* 35		2	2	2				
22	1	26216-100252	STUD, M10X 25	4	4	4	4				
23	1	26716-100002	NUT, M10	4	4	4	4				
24	1	22212-100000	WASHER, 10	10	10	10	10				
24-1	1	22217-100000	WASHER, SPRING 10	10	10	10	10			N	
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											
25	1	22117-100000	WASHER, 10		10	10	10				
26	1	22113-100000	WASHER, 10		2	2	2				
27	1	22332-080220	PIN, TAPER 8X 22	2	2	2	2				
28	1	26756-080002	NUT, LOCK M8	2	2	2	2				
29	1	124770-82810	BRACKET	2							
30	1	176000-02801	BRACKET		1	1	1				
31	1	176000-02811	BRACKET		1	1	1				
32	1	26116-100252	BOLT, M10X 25 PLATED	8							
33	1	22212-100000	WASHER, 10	8							
33-1	1	22217-100000	WASHER, SPRING 10	8						N	
(A=EXXX)											
34	1	104214-84450	LEVER ASSY, CONTOROL	1		1	1				
35	1	176000-04521	LEVER ASSY		1						
36	1	26116-080202	BOLT, M8X 20 PLATED	1	1	1	1				
37	1	26756-080002	NUT, LOCK M8	1	1	1	1				
38	1	104214-86030	JOINT	1		1	1				
39	1	41710-000860	PIN	1		1	1				
40	1	22272-000070	RING, E- 7	2		2	2				
41	1	124772-86100	BRACKET	1							
42	1	121370-86101	BRACKET		1						
43	1	124790-86100	BRACKET			1	1				
44	1	26116-060129	BOLT, M6X 12 PLATED	2	2	2	2				
45	1	22212-060000	SPRING WASHER 6	2	2	2	2				
45-1	1	22217-060000	WASHER, SPRING 6	2	2	2	2			N	
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											

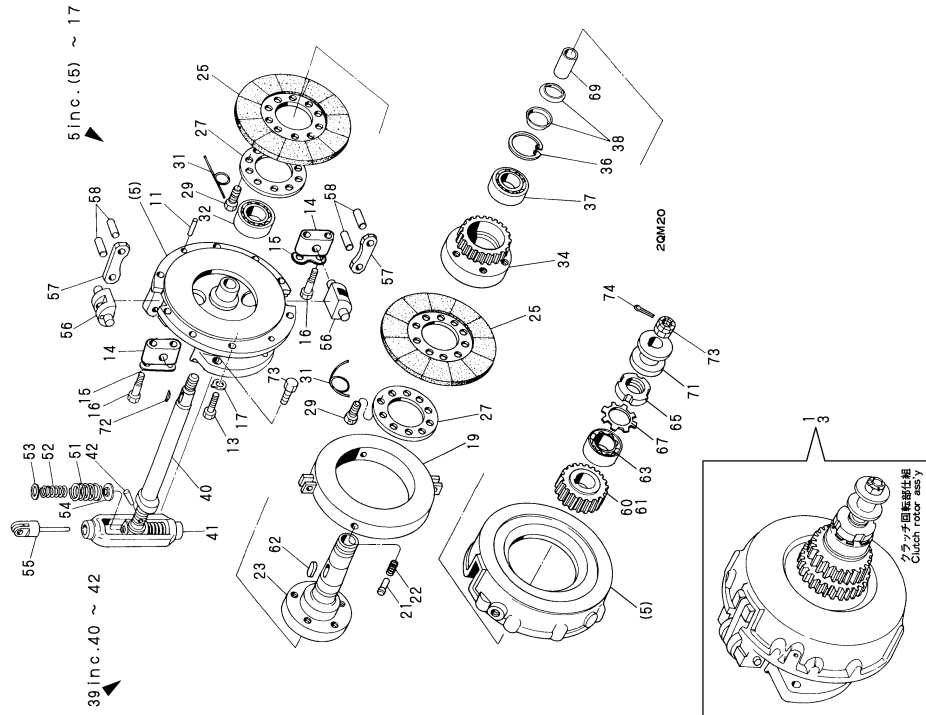
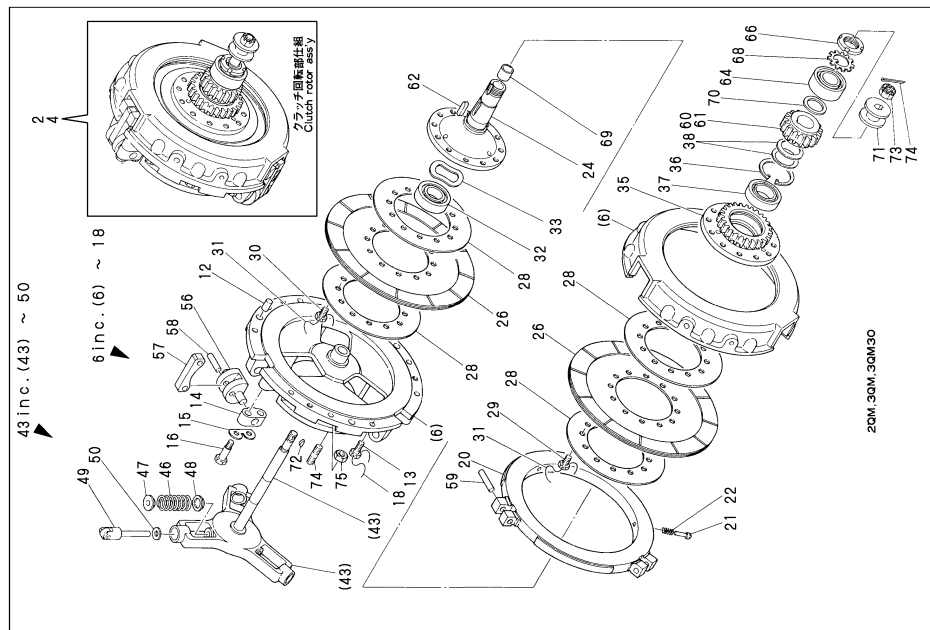
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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OCR10-M09109 2QM(20)/3QM(30)
Fig.22. CLUTCH HOUSING



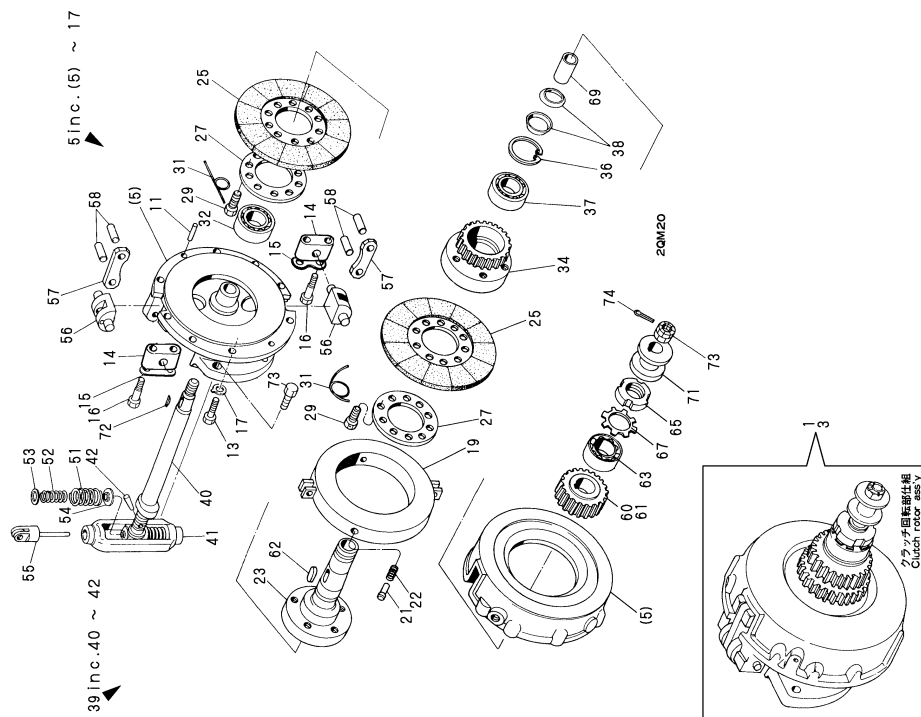
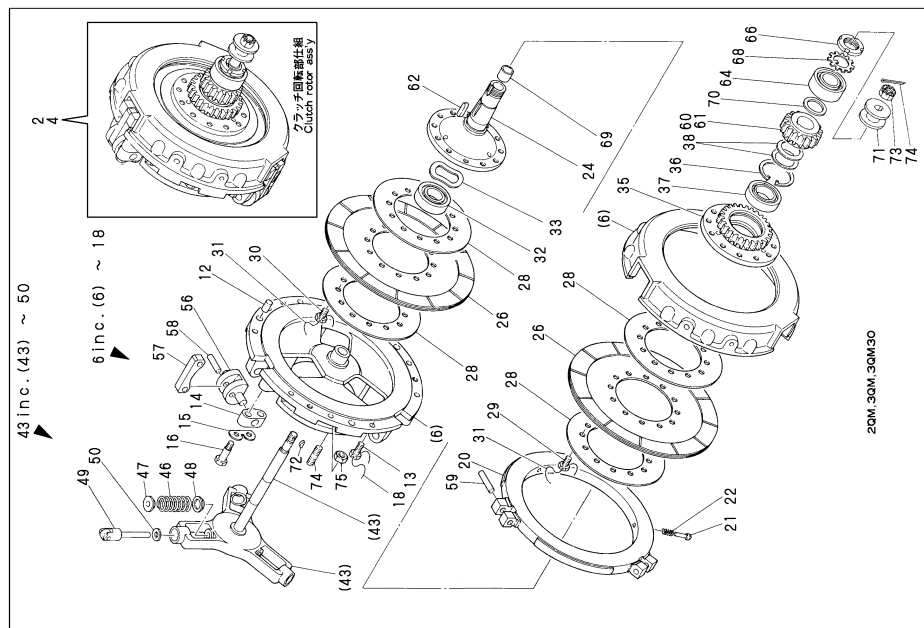
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
46	1	120220-84472	FORK ASSY, LEVER	1							
47	1	105582-84470	FORK, LEVER		1	1	1				
50	2	120220-84300	BUSH, SHIFTER	1	1	1	1				
51	2	22312-080180	PIN, PARALLEL M8X18	2	2	2	2				
52	2	22322-030220	PIN, TAPER 3X22	2	2	2	2				
53	1	105582-84150	SHAFT, FORK		1	1	1				
54	1	22351-060032	PIN, SPRING 6.0X32		2	2	2				
55	1	24311-000180	O-RING, 1AP18.0	2							
56	1	24311-000200	O-RING, 1AP20.0		2	2	2				
57	1	22512-050180	KEY, 5X 18	1							
58	1	22522-050160	KEY, WOODRUFF 5X16		1	1	1				
59	1	120220-84130	RETAINER, O-RING	2							
60	1	22242-000180	RING, 18	1							
61	1	704211-82500	SHAFT ASSY, FORWARD	1							
64	2	22312-040120	PIN, PARALLEL M4X12	2							
65	1	705582-82500	SHAFT ASSY, FORWARD		1	1	1				
66	1	104211-82090	GASKET	1							
67	1	105582-82090	GASKET		1	1	1				
68	1	26116-080352	BOLT, M8X 35 PLATED	1							
69	1	26116-080302	BOLT, M8X 30 PLATED		2	2	2				
70	1	26116-080552	BOLT, M8X 55 PLATED	1							
71	1	26116-080702	BOLT, M8X 70 PLATED		2	2	2				
72	1	26116-080902	BOLT, M8X 90 PLATED	2							
73	1	26116-080852	BOLT, M8X 85 PLATED		2	2	2				
74	1	26116-080202	BOLT, M8X 20 PLATED	2							
75	1	22117-080000	WASHER, 8		6	6	6				
76	1	124210-83360	CLAW	1							
77	1	105582-82120	CLAW		1	1	1				
78	1	120220-82130	SPRING	1							
79	1	105582-82130	SPRING		1	1	1				
80	1	176000-02201	SPRING		1	1	1				
81	1	26117-060129	BOLT M 6X 12 PLATED		2	2	2				
82	1	22212-060000	SPRING WASHER 6		2	2	2				
82-1	1	22217-060000	WASHER, SPRING 6		2	2	2				N
		(B=EXXX) (C=EXXX) (D=EXXX)									
83	1	105582-82780	BOLT		1	1	1				
84	1	26756-080002	NUT, LOCK M8		1	1	1				
85	1	26668-080002	NUT, CAP M8		1	1	1				
86	1	23414-080000	GASKET, 8X1.0		2	2	2				

Fig.23. FRICTION DISC & AHEAD SHAFT



No.	Lev.	Parts No.	Description	(A)=2QM20 (B)=3QM30 (C)=2QM			(D)=3QM (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-83730	ROTATOR ASSY	1							
2	1	776000-03730	ROTATOR ASSY, I2.20		1	1	1				
3	1	724771-83730	ROTATOR ASSY	1							
4	1	776001-03730	ROTATOR ASSY, I3.21		1	1	1				
5	2	724770-83150	HOUSING ASSY, CLUTCH	1							
6	2	776000-03720	HOUSING ASSY, CLUTCH		1	1	1				
11	3	22312-080180	PIN, PARALLEL M8X18	2							
12	3	22312-100180	PIN, PARALLEL M10X18		3	3	3				
13	3	26116-080206	BOLT, M8X 20 PLATED	6	9	6	9				
14	3	122310-83380	BRACKET	2	3	3	3				
15	3	122310-83630	WASHER	2	3	2	3				
16	3	122310-83390	BOLT	4	6	6	6				
17	3	124210-83150	WASHER	6							
18	3	22451-100000	WIRE, 1.0		3	3	3				
19	2	120220-83342	DISK, FRICTION	1							
20	2	176000-03150	DISK, FRICTION		1	1	1				
21	2	124210-83360	CLAW	4	3	3	3				
22	2	124210-83370	SPRING	4	3	3	3				
23	2	124770-83210	SHAFT, FORWARD	1							
24	2	176000-03201	SHAFT, FORWARD		1	1	1				
25	2	124770-83300	DISK, FRICTION	2							
26	2	176000-03300	DISK, FRICTION		2	2	2				
27	2	124770-83330	PLATE	2							
28	2	176000-03330	PLATE		4	4	4				
29	2	104211-83290	BOLT	15							
30	2	120220-83290	BOLT		24	24	24				
31	2	22451-100000	WIRE, 1.0	2	2	2	2				
32	2	24104-062054	BEARING, BALL 6205UU	1	1	1	1				
33	2	176000-03450	WASHER		1	1	1				
34	2	120220-83200	SHAFT, REVERSE	1							
35	2	176000-03211	SHAFT, REVERSE		1	1	1				
36	2	22252-000550	RING, 55	1	1	1	1				
37	2	24101-060064	BEARING, BALL 6006	1	1	1	1				
38	2	120220-83250	SPRING	2	2	2	2				
39	2	120220-84490	SHAFT ASSY, SHIFT	1							
40	3	120220-84120	SHAFT, SHIFT	1							
41	3	120220-84320	CASE	1							
42	3	22322-040400	PIN, TAPER 4X40	1							
43	2	776000-03570	LEVER ASSY, SHIFT		1	1	1				
46	3	176000-03860	SPRING		3	3	3				
47	3	125110-84480	RETAINER		3	3	3				
48	3	125110-84490	RETAINER, SPRING		3	3	3				
49	3	176000-03740	RETAINER ASSY		3	3	3				
50	3	125110-84520	SHIM		3	3	3				
51	2	122310-84460	SPRING	2							
52	2	122310-84470	SPRING	2							
53	2	125110-84480	RETAINER	2							
54	2	125110-84490	RETAINER, SPRING	2							
55	2	122310-84450	RETAINER	2							
56	2	124210-84402	LEVER	2	3	2	3				
57	2	122310-84421	LINK	2	3	2	3				

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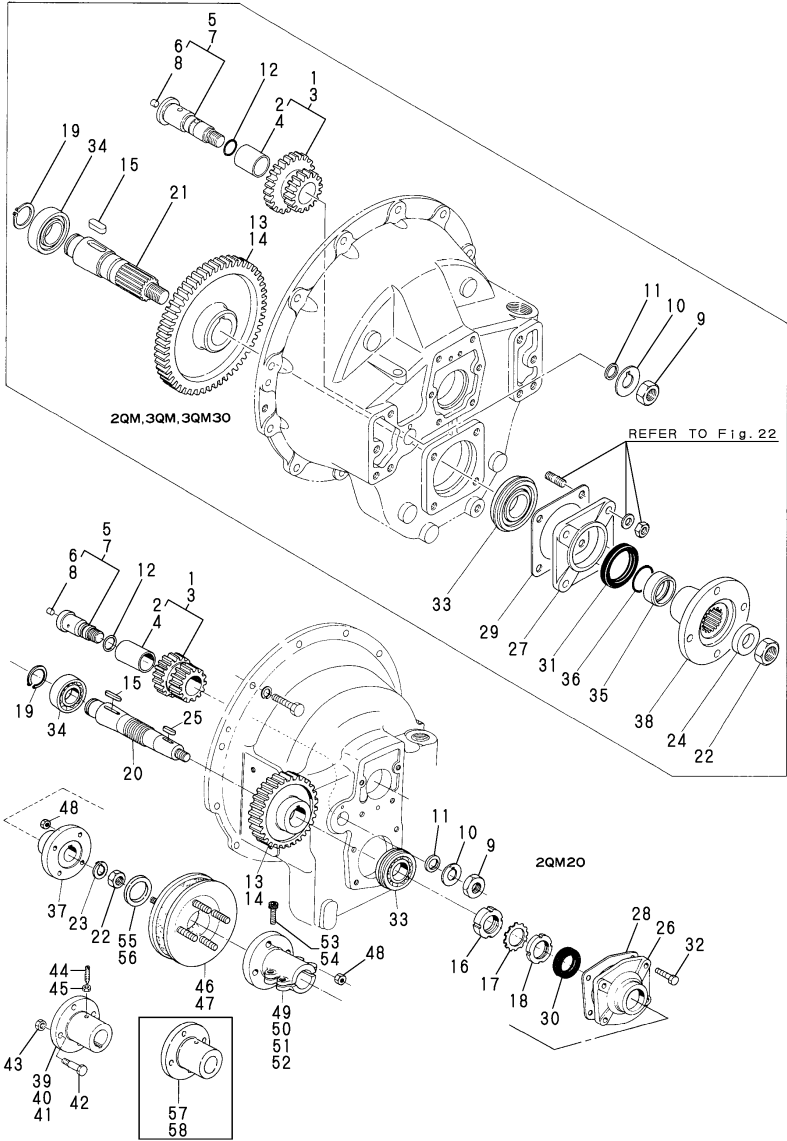


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
58	2	124210-84410	PIN	4	3	3	3				
59	2	122410-84450	PIN		3	3	3				
60	2	124770-83520	PINION, I=2.20 Z=25	1	1	1	1				
61	2	120221-83520	PINION, I=3.21 Z=19	1	1	1	1				
62	2	22512-070260	KEY, 7X 26	1	1	1	1				
63	2	24101-062054	BEARING, BALL 6205	1							
64	2	176000-03950	BEARING #5205S		1	1	1				
65	2	120220-83450	NUT	1							
66	2	24211-025002	NUT, BEARING 25		1	1	1				
67	2	122310-83460	WASHER	1							
68	2	24231-025000	WASHER 25,BEARING		1	1	1				
69	2	122310-83800	BUSH	1	1	1	1				
70	2	176000-03461	SPACER		1	1	1				
71	2	120220-84310	PLATE	1	1	1	1				
72	2	22522-040130	KEY, WOODRUFF 4X13	1	1	1	1				
73	2	26887-120002	NUT, CASTLE M12	1	1	1	1				
74	2	22411-300250	PIN 3.0* 25	1	1	1	1				

Fig.24. IDLE GEAR SHAFT & THRUST SHAFT

(A)=2QM20
(B)=3QM30
(C)=2QM

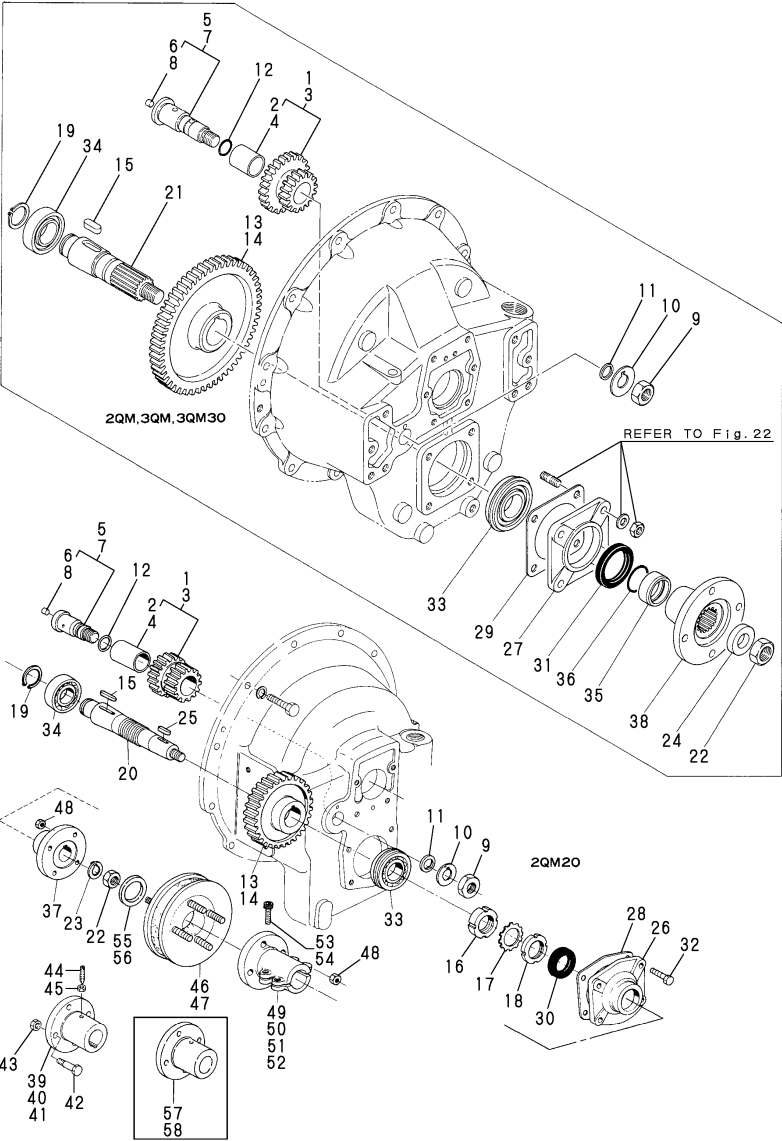
(D)=3QM
(E)=
(F)=



Remarks
(1)l=2.20
(2)l=3.21
(3)2QM & 2QM20:l=3.21
2QM20 & 3QM30:l=2.2
FROM REF.NO.39 UP TO REF.NO58 IS
OPTIONAL.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124770-83030	GEAR, IDLE Z=23/26	1	1	1	1				
2	2	120220-83060	BUSH	1	1	1	1				
3	1	120221-83030	GEAR, l=3.21	1	1	1	1				
4	2	120220-83060	BUSH	1	1	1	1				
5	1	120220-83230	SHAFT, GEAR	1	1	1	1				
6	2	124210-83270	PLUG	1	1	1	1				
7	1	176000-03230	SHAFT, GEAR	1	1	1	1				
8	2	124210-83270	PLUG	1	1	1	1				
9	1	120220-83420	NUT	1	1	1	1				
10	1	120220-83410	WASHER	1	1	1	1				
11	1	120220-83260	RETAINER, O-RING	1	1	1	1				
12	1	24311-000180	O-RING, 1AP18.0	1	1	1	1				
13	1	124770-83530	GEAR, l=2.20 Z=55	1	1	1	1				
14	1	124221-83530	GEAR, l=3.21 Z=61	1	1	1	1				
15	1	22512-100260	KEY, 10X 26	1	1	1	1				
16	1	120220-83470	NUT	1							
17	1	120220-83480	WASHER	1							
18	1	120220-83490	NUT, LOCK	1							
19	1	22242-000300	RING, 30	1	1	1	1				
20	1	124227-83220	SHAFT, THRUST	1							
21	1	176000-03651	SHAFT, THRUST		1	1	1				
22	1	26776-200002	NUT, LOCK M20	1	1	1	1				
23	1	122310-83410	WASHER	1							
24	1	176000-03730	WASHER		1	1	1				
25	1	22512-070300	KEY, 7X 30	1							
26	1	120220-82230	COVER	1							
27	1	176000-02401	COVER		1	1	1				
28	1	120220-82240	PACKING	1							
29	1	176000-02410	GASKET		1	1	1				
30	1	120220-82300	SEAL, TC30508	1							
31	1	176000-02440	SEAL, OIL		1	1	1				
32	1	26116-100222	BOLT, M10X 22 PLATED	4							
33	1	120220-82280	BEARING, BALL 6207NR	1	1	1	1				
34	1	24101-062064	BEARING, BALL 6206	1	1	1	1				
35	1	176000-03721	SPACER		1	1	1				
36	1	24321-000350	O-RING, 1AG35.0		1	1	1				
37	1	122310-83400	COUPLING	1							
38	1	176000-03701	COUPLING		1	1	1				
39	1	48110-028070	COUPLING, 28	1		1					1
40	1	48110-030060	COUPLING, D=120	1	1	1	1				3
41	1	48110-034070	COUPLING		1		1				2
42	1	26116-100322	BOLT, M10X 32 PLATED	4	4	4	4				
43	1	26716-100002	NUT, M10	4	4	4	4				
44	1	48110-032411	SCREW	1	1	1	1				
45	1	26756-080002	NUT, LOCK M8	1	1	1	1				
46	1	124770-85400	COUPLING	1							
47	1	121370-85401	COUPLING		1	1	1				
48	2	26736-100002	NUT, M10	8	8	8	8				
49	1	104214-83500	COUPLING	1							
50	1	104214-83980	COUPLING	1							
51	1	104214-83990	COUPLING	1							

Fig.24. IDLE GEAR SHAFT & THRUST SHAFT



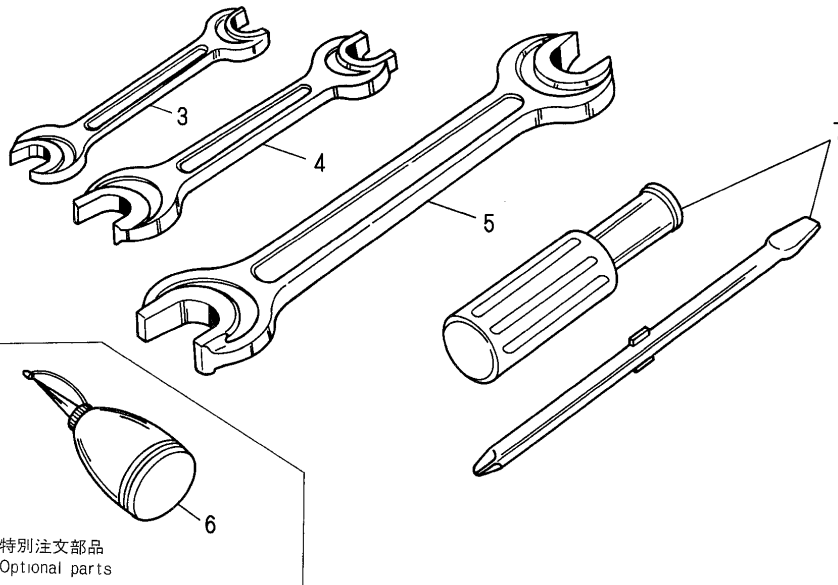
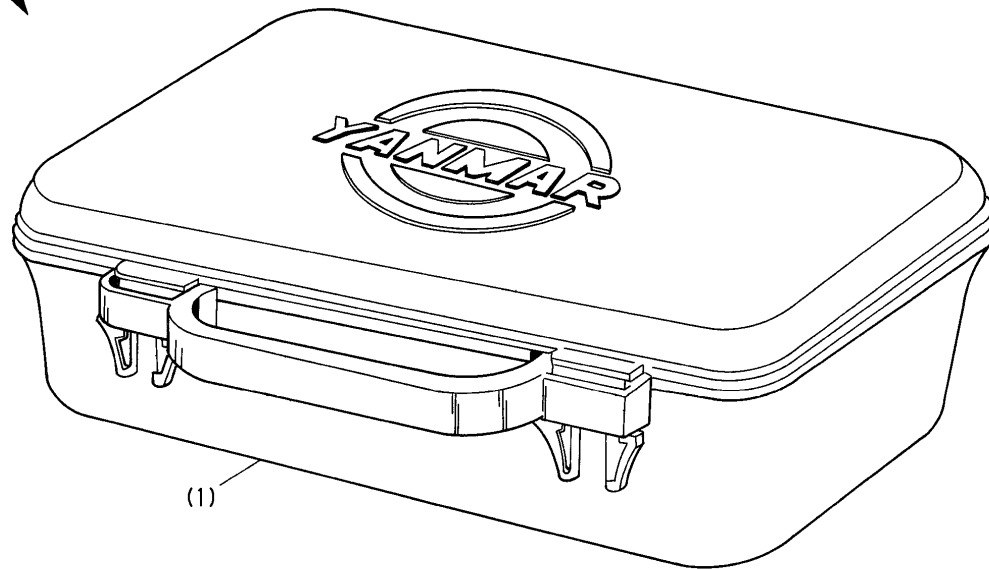
(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	1	121370-83981	COUPLING, SLIT 25MM		1						
53	2	26450-080282	BOLT, M8X 28	4							
54	2	26450-100302	BOLT, M10X 30		6						
55	1	124772-85910	PIECE, COUPLING	1							W
(A=*1978.03)											
56	1	121370-85910	PIECE, COUPLING		1	1	1				W
(B=*1978.03) (C=*1978.03) (D=*1978.03)											
57	1	105583-85900	COUPLING, 22	1							W
(A=*1978.03)											
58	1	124323-85900	COUPLING		1						W
(B=*1978.03)											

Remarks
(1)I=2.20
(2)I=3.21
(3)2QM & 2QM20:I=3.21
2QM20 & 3QM30:I=2.2
FROM REF.NO.39 UP TO REF.NO58 IS
OPTIONAL.

1 inc. (1) ~ 5, 7

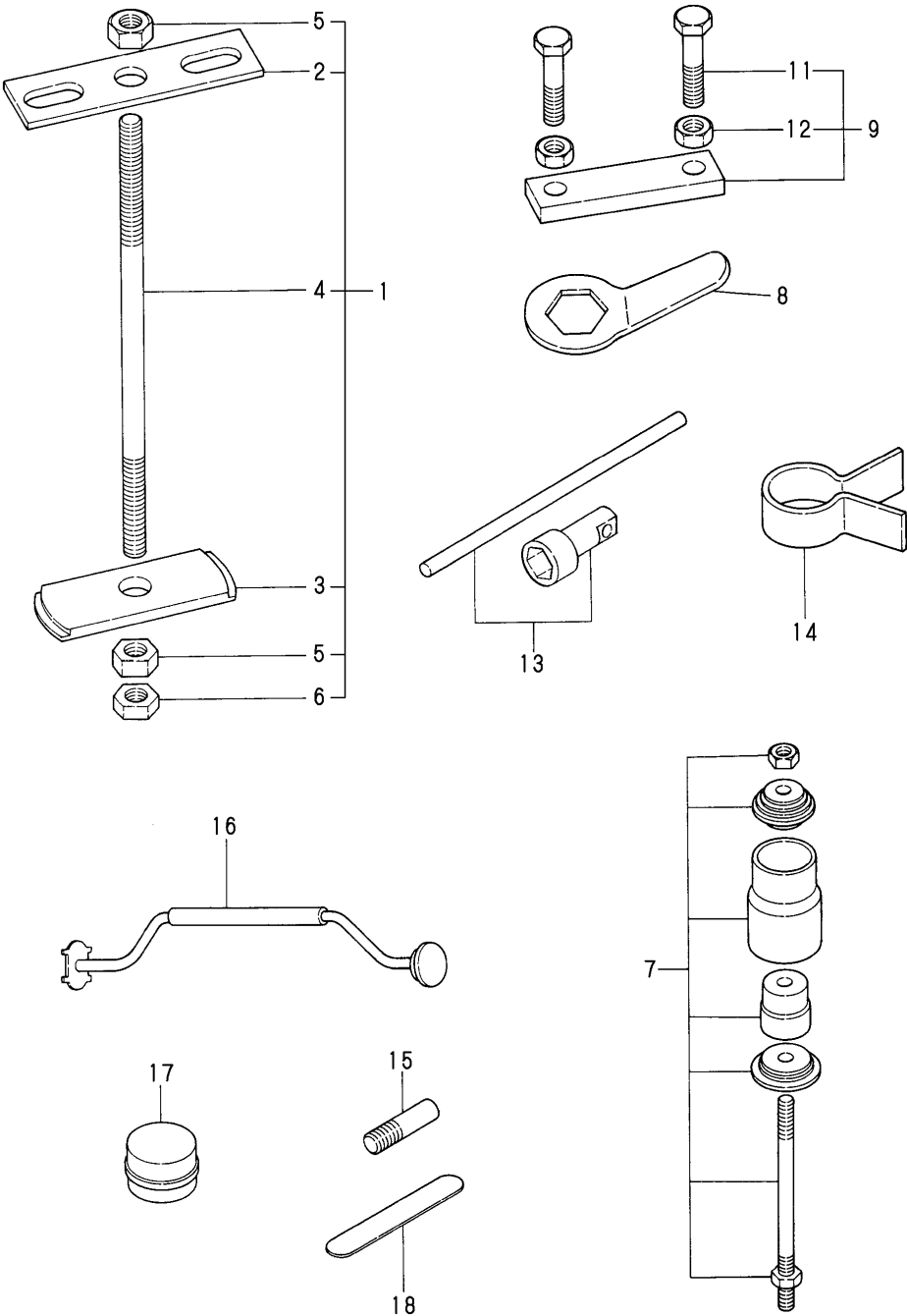


No.	Lev.	Parts No.	Description	(A)=2QM20 (B)=3QM30 (C)=2QM		(D)=3QM (E)= (F)=		(E)	(F)	I	R
				(A)	(B)	(C)	(D)				
1	1	704507-92100	BOX ASSY, TOOL	1	1	1	1				
3	2	28110-100130	SPANNER, 10X13	1	1	1	1				
4	2	28110-170190	SPANNER, 17X19	1	1	1	1				
5	2	28110-220240	SPANNER, 22X24	1	1	1	1				
6	2	28210-000150	OILER	1	1	1	1			Z	1
	(A=EXXX)	(B=EXXX)	(C=EXXX)	(D=EXXX)							
7	2	104200-92350	DRIVER, SCREW	1	1	1	1				

Remarks
(1)FROM APRIL,1978,THE OIL FEEDER
IS AVAILABEL AS AN OPTIONAL.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.26. SPECIAL TOOL(OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724770-92210	TOOL ASSY, LINER	1	1	1	1				
2	2	103338-92020	TOOL, LINER REMOVER	1	1	1	1				
3	2	101400-92010	TOOL, LINER REMOVER	1	1	1	1				
4	2	103338-92030	BOLT, LINER REMOVER	1	1	1	1				
5	2	26717-160002	NUT, M16	2	2	2	2				
5-1	2	26716-160002	NUT, M16	2	2	2	2				R
(A=E XXX) (B=E XXX) (C=E XXX) (D=E XXX)											
6	2	26717-160002	NUT, M16	1	1	1	1				
6-1	2	26756-160002	NUT, LOCK M16	1	1	1	1				R
(A=E XXX) (B=E XXX) (C=E XXX) (D=E XXX)											
7	1	124460-92400	TOOL, MAIN METAL	1	1	1	1				
8	1	103338-92100	WRENCH	1		1					
9	1	724770-92220	TOOL ASSY, FLYWHEEL	1		1					
11	2	104200-92130	TOOL	2		2					
12	2	26717-120002	NUT, M12	2		2					
12-1	2	26716-120002	NUT, M12	2		2					R
(A=E XXX) (C=E XXX)											
13	1	124770-92690	TOOL, PULLEY REPLACE	1		1					
14	1	101404-92140	TOOL, PISTON&RING	1	1	1	1				
15	1	101104-92180	TOOL, NOZZLE REMOVER	1	1	1	1				
16	1	28210-000031	TOOL, VALVE RAPPING	1	1	1	1				
17	1	28210-000070	COMPOUND	1	1	1	1				
18	1	28312-150750	GAUGE, 0.15X75	1	1	1	1				

Fig.27. PACKING KIT(OPTIONAL)

(A)=2QM20
(B)=3QM30
(C)=2QM
(D)=3QM
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	724772-92600	GASKET SET	1							
2	1	721370-92600	REPAIR KIT		1						
3	1	724790-92600	GASKET SET			1					
4	1	721390-92600	GASKET SET				1				
5	2	124465-01750	GASKET, OIL SUMP	1		1					
5-1	2	124465-01751	GASKET	1		1					N
6	(A=EXXX) 2	121250-01750	(C=EXXX) GASKET, OIL SUMP		1		1				
6-1	2	121250-01751	GASKET, OIL SUMP		1		1				N
7	2	124160-01861	GASKET	1	1	1	1				
7-1	2	124160-01863	GASKET	1	1	1	1				N
8	(A=EXXX) 2	124450-01511	(B=EXXX) GASKET, GEAR CASE	1	1	1	1				
8-1	2	124450-01512	(C=EXXX) GASKET, GEAR CASE	1	1	1	1				N
9	(A=EXXX) 2	124770-01861	(B=EXXX) GASKET	1	1	1	1				
10	2	124240-01881	(C=EXXX) GASKET	1	1	1	1				
10-1	2	124240-01882	(D=EXXX) GASKET	1	1	1	1				N
11	(A=EXXX) 2	124450-44410	(B=EXXX) GASKET	1	1	1	1				
12	2	124450-11681	(C=EXXX) GASKET	1	1	1	1				
13	2	123210-09310	(D=EXXX) GASKET	3	3	1	1				
14	2	104900-11450	GASKET, CHAMBER	4	6	4	6				
15	2	103854-11490	INSULATOR	2	3	2	3				
16	2	124450-11310	GASKET, BONNET	1		1					
17	2	121370-11310	GASKET, BONNET		1		1				
18	2	121370-11331	GASKET		2		2				
18-1	2	124460-03663	GASKET		2		2				S
19	2	124460-02150	GASKET	1	1	1	1				
20	2	124160-34842	GASKET		1		1				
20-1	2	124160-34843	GASKET		1		1				N
20-2	2	124160-34844	GASKET		1		1				N
21	2	124450-32020	GASKET	1	1	1	1				
22	2	124770-34730	GASKET	2	2	2	2				
23	2	124772-01610	GASKET	1	1	1	1				
24	2	124223-42020	GASKET, WATER PUMP	1	1	1	1				
25	2	124223-42110	GASKET, WATER PUMP	1	1	1					
26	2	145410-46110	PACKING				1				
27	2	124223-42140	GASKET	1	1	1					
28	2	121390-42140	GASKET				1				
29	2	104211-49160	GASKET	1							
30	2	121370-49160	GASKET		2						
31	2	124790-49760	GASKET			1	1				
32	2	124223-01850	GASKET	1	1	1	1				
33	2	124770-77081	GASKET	1	1	1	1				
34	2	124770-82031	GASKET	1	1	1	1				
35	2	120220-82090	GASKET	1							

Remarks
THIS FIGURE ARE NOT ILLUSTRATED.

(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=

[illegible]

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

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				(A)=2QM20 (B)=3QM30 (C)=2QM					(D)=3QM (E)= (F)=					I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)						
1	1	724772-92500	PARTS KIT, SPARE	1											
2	1	721370-92500	REPAIR KIT		1										
3	2	124750-01331	GASKET, HEAD	1											
3-1	2	124772-01330	GASKET, HEAD	1										N	
(A=*1979.12)															
4	2	121370-01330	GASKET, HEAD		1										
4-1	2	121370-01331	GASKET, HEAD		1									N	
(B=*1976.12)															
5	2	124450-11900	GASKET	1											
6	2	121250-13520	GASKET		3										
7	2	124770-13130	GASKET, MUFFLER	1											
8	2	124770-13180	GASKET	1											
9	2	124770-13170	GASKET	1	2										
10	2	724750-22500	RING SET, PISTON	2	3										
10-1	2	724790-22500	RING SET, PISTON	2	3									N	
(A=*1978.03) (B=*1978.03)															
11	2	124550-35110	ELEMENT	1	1										
12	2	104500-55710	ELEMENT	1	1										
13	2	124223-42091	IMPELLER	1	1										
14	2	124770-49200	THERMOSTAT	1											
15	2	105582-49200	THERMOSTAT		1										
16	2	27210-200300	ZINC, SCREW20X30	3	3										
17	2	124160-39450	SWITCH, 0.5KG	1	1										
18	2	46150-004530	SENDER UNIT, CW	1	1										
18-1	2	123682-91340	SWITCH, 60	1	1									F	1
(A=E/#86262) (B=E/#82258)															
19	2	124770-91040	LAMP, PILOT 12V 3.4W	3	3										
20	2	124770-53000	VALVE ASSY,INJECTION	2	3										
21	2	124772-77350	V-BELT, HM32	1	1										

Remarks
THIS FIGURE ARE NOT ILLUSTRATED.
(1)REFER TO FIG.20 REF.NO.18-1.

Fig.29. REPAIR KIT FOR INSPECTION

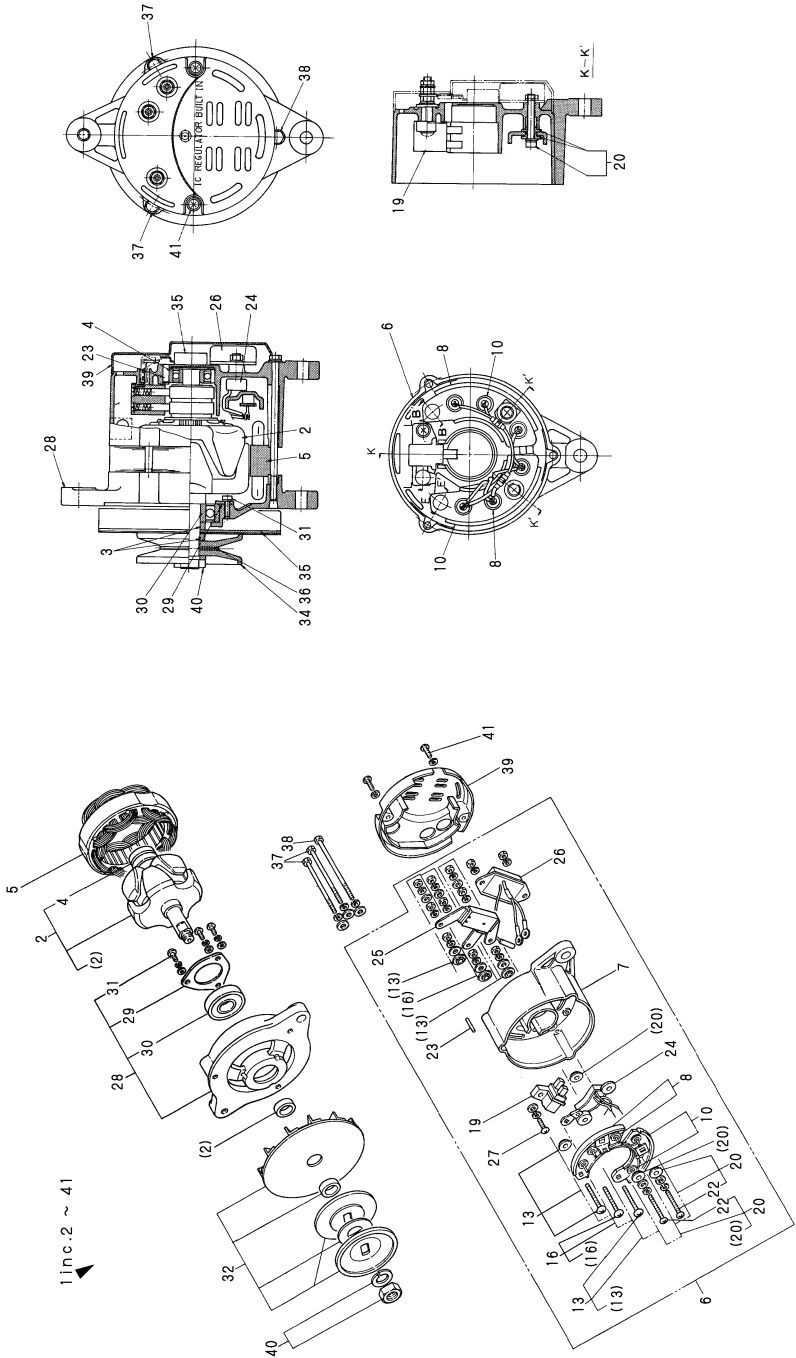
				(A)=2QM20 (B)=3QM30 (C)=2QM	(D)=3QM (E)= (F)=					I	R
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)		
1	1	724790-11990	GASKET SET			1					
2	1	721390-11990	GASKET SET				1				
3	2	24311-000140	O-RING, 1AP14.0			2	3				
4	2	124465-01750	GASKET, OIL SUMP			1					
4-1	2	124465-01751	GASKET (C=EXXX)			1				N	
5	2	121250-01750	GASKET, OIL SUMP				1				
5-1	2	121250-01751	GASKET, OIL SUMP (D=EXXX)				1			N	
6	2	124750-01331	GASKET, HEAD			1					
6-1	2	124772-01330	GASKET, HEAD (C=EXXX)			1				N	
7	2	121370-01330	GASKET, HEAD				1				
7-1	2	121370-01331	GASKET, HEAD (D=EXXX)				1			N	
8	2	121250-12710	GASKET, MANIFOLD				1				
9	2	124450-11900	GASKET			1					
10	2	124770-13130	GASKET, MUFFLER			1					
11	2	121250-13520	GASKET				3				
12	2	124450-44410	GASKET			1	1				
13	1	776000-02980	GASKET SET			1	1				
14	2	124770-82031	GASKET			1	1				
15	2	176000-02410	GASKET			1	1				
16	2	22411-300250	PIN 3.0* 25			1	1				
17	2	22451-100000	WIRE, 1.0			3	3				
18	2	124210-83360	CLAW			3	3				
19	2	124210-83370	SPRING			3	3				

Remarks
THIS FIGURE ARE NOT ILLUSTRATED.

Fig.30. GENERATOR COMPONENT PART

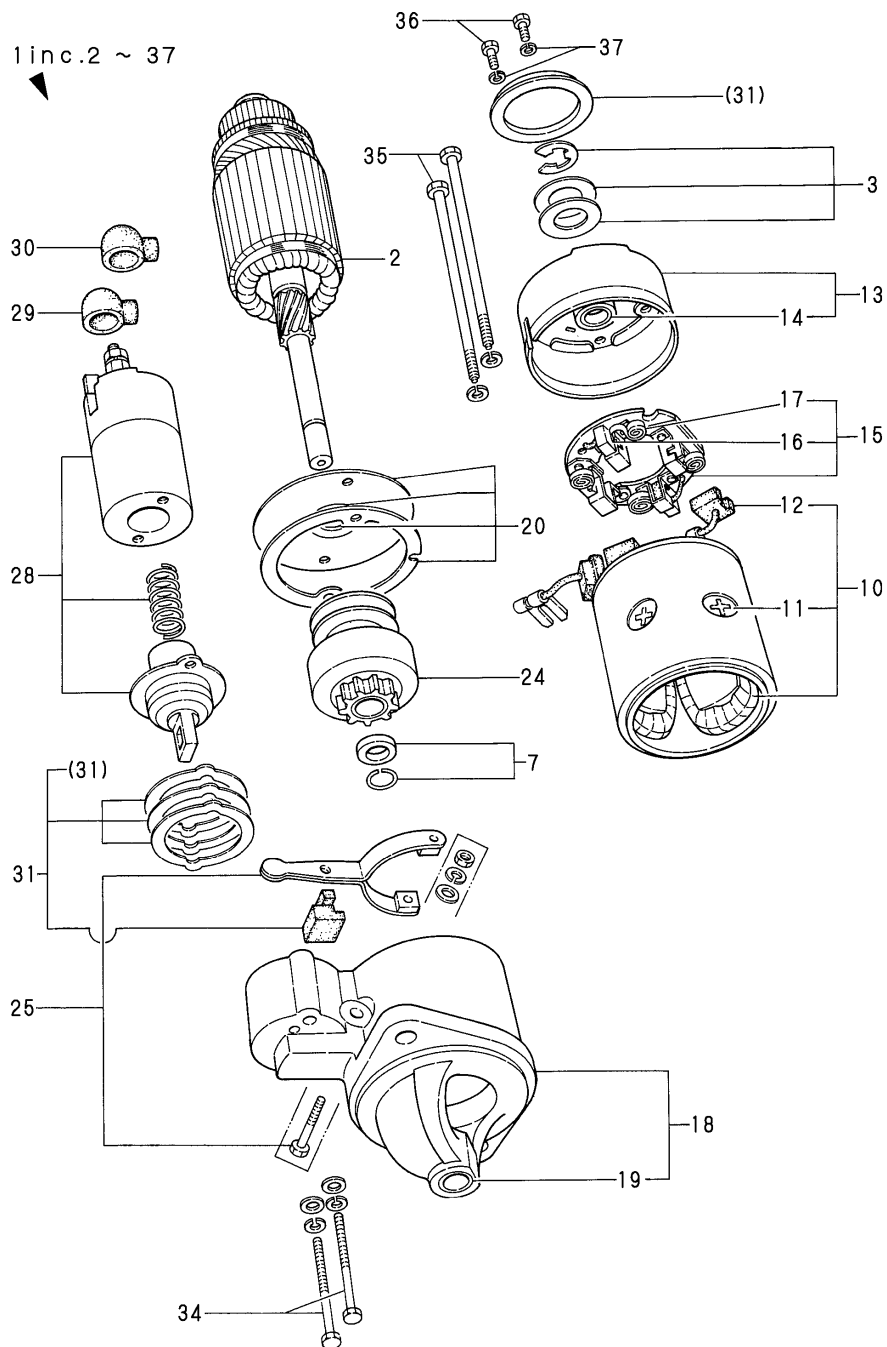
(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-77200	GENERATOR, LR135-31	1	1	1	1				
2	2	XLR135Y1100	ROTOR ASSY	1	1	1	1				
4	3	X6201SD	BEARING	1	1	1	1				
5	2	XL135Y1200	STATOR ASSY	1	1	1	1				
6	2	XL135Y1300	COVER ASSY, REAR	1	1	1	1				
7	3	XL135Y1301	COVER, REAR	1	1	1	1				
8	3	XL135Y1302	SR HOLDER (+)	1	1	1	1				
10	3	XL135Y1303	SR HOLDER (-)	1	1	1	1				
13	3	XL135Y1310	TERMINAL ASSY	2	2	2	2				
16	3	XL135Y1311	TERMINAL ASSY	1	1	1	1				
19	3	XL135Y13200	BRUSH ASSY.	1	1	1	1				
20	3	XL135Y1803	SCREW SET	2	2	2	2				
22	4	26557-050362	SCREW M 5X 36	2	2	2	2				
23	3	XL135Y1810	LOCK, BEARING	1	1	1	1				
24	3	XMV11305	CONTROL UNIT, FIELD	1	1	1	1				
25	3	XMV11306	CR ASSY	1	1	1	1				
26	3	121370-77950	REGULATOR, TR1Z28	1	1	1	1				
27	3	26557-050162	SCREW, M5X16	1	1	1	1				
28	2	XL135Y1400	COVER ASSY, FRONT	1	1	1	1				
29	3	XL135Y1401	RETAINER, BEARING	1	1	1	1				
30	3	X6302B	BALL BEARING	1	1	1	1				
31	3	26557-040182	SCREW	3	3	3	3				
32	2	XL135Y1531	PULLEY ASSY	1	1	1	1				
37	2	XL135Y1801	BOLT, THROUGH	2	2	2	2				
38	2	XL135Y1802	BOLT, THROUGH	1	1	1	1				
39	2	XL135Y1820	COVER	1	1	1	1				
40	2	XB444001A	NUT SET, PULLEY	1	1	1	1				
41	2	26557-050102	SCREW, M5X10	2	2	2	2				

Fig.31. STARTING MOTOR COMPONENT PART(12V 1.0KW)

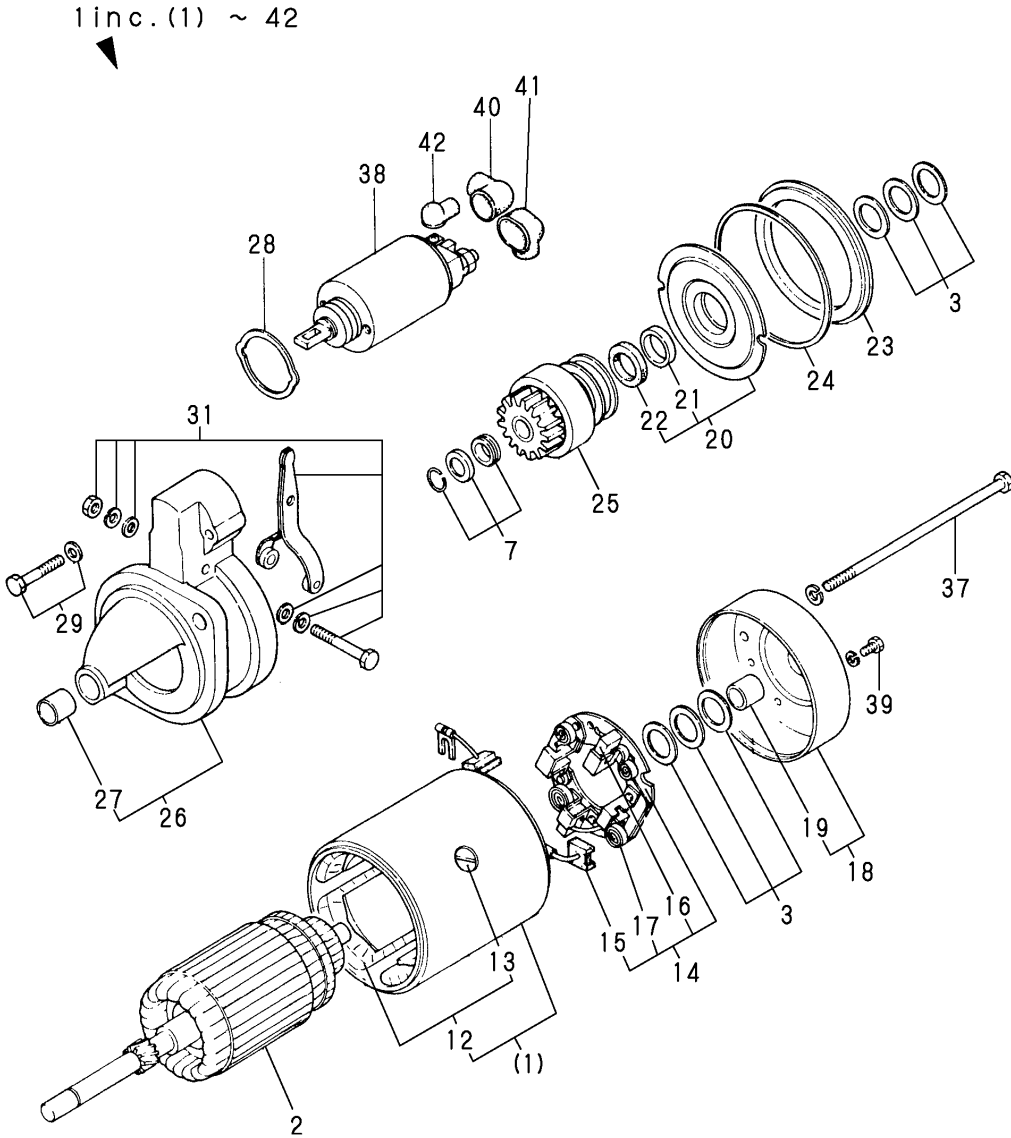


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124770-77010	STARTER	1							
2	2	X211441004	ARMATURE ASSY	1							
3	2	X21148110	WASHER SET, THRUST	1							
7	2	X21147155	STOPPER SET, PINION	1							
10	2	X211482001	COIL ASSY, FIELD	1							
11	3	X21147215	SCREW, POLE CORE	4							
12	3	X21145312	BRUSH, +	2							
13	2	X211423001	COVER ASSY, REAR	1							
14	3	X21145352	METAL	1							
15	2	X21141360	HOLDER ASSY, BRUSH	1							
16	3	X21145313	BRUSH(-)	2							
17	3	X21144314	SPRING, BRUSH	4							
18	2	X211426006	CASE ASSY, GEAR	1							
19	3	X21144661	METAL, GEAR CASE	1							
20	2	X211484001	BRACKET ASSY	1							
24	2	X211485001	PINION ASSY	1							
25	2	X211416511	LEVER ASSY.	1							
28	2	X211427003	SWITCH ASSY, MAGNET.	1							
29	2	X21142742	COVER (A), RUBBER	1							
30	2	X21141742	COVER (B), RUBBER	1							
31	2	X21148861	COVER SET, DUST	1							
34	2	X21144886	BOLT	2							
35	2	X21146815	BOLT, THROUGH	2							
36	2	26557-040122	SCREW, M4X12	2							
37	2	22212-040000	SPRING WASHER 4	2							
37-1	2	22217-040000	WASHER, SPRING 4	2							R
(A=EXXX) (B=EXXX) (C=EXXX) (D=EXXX)											

Fig.32. STARTING MOTOR COMPONENT PART(12V 1.8KW)

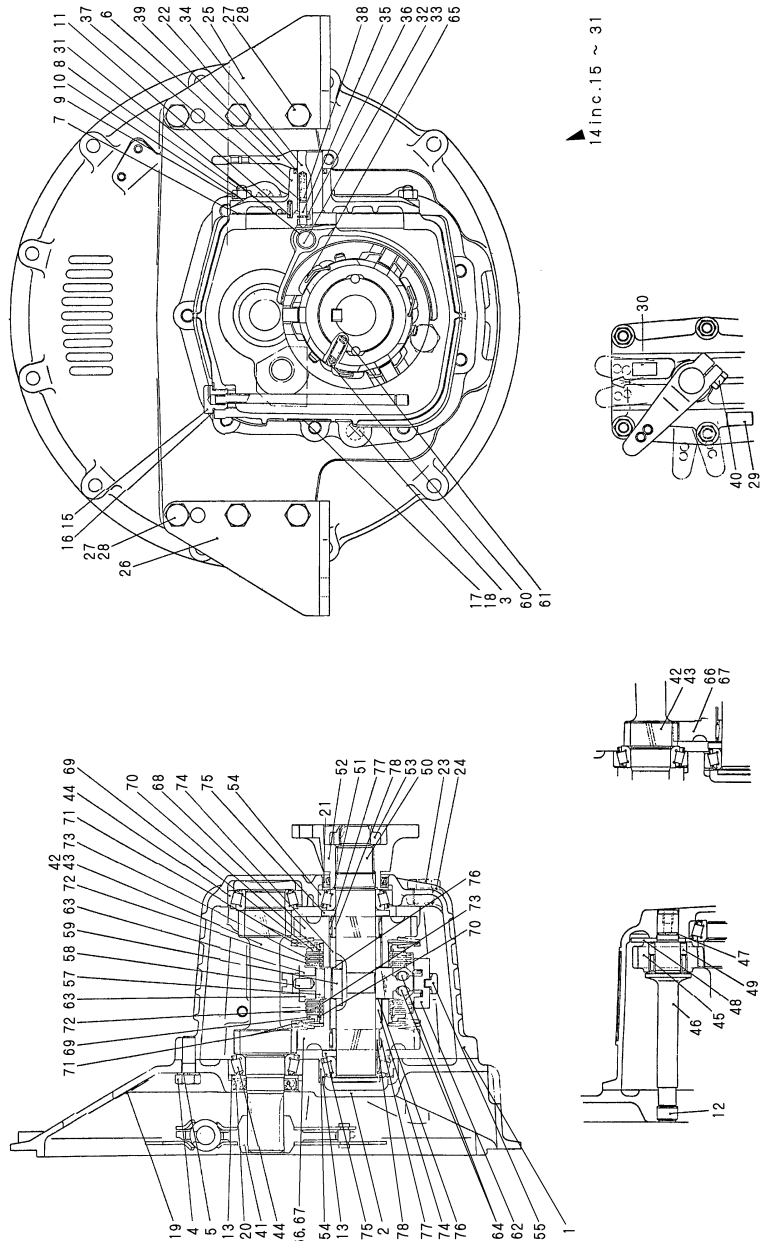
(A)=2QM20
(B)=3QM30
(C)=2QM

(D)=3QM
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121370-77010	STARTER, S12-47		1	1	1				
2	2	X21207100	ARMATURE ASSY		1	1	1				
3	2	X21201115	WASHER SET, THRUST		1	1	1				
7	2	X21143155	STOPPER SET, PINION		1	1	1				
12	2	X21202220	COIL ASSY, FIELD		1	1	1				
13	3	X21142215	SCREW		4	4	4				
14	2	X21203305Y	HOLDER ASSY, BRUSH		1	1	1				
15	3	X21207311	BRUSH (+)		2	2	2				
16	3	X21205312	BRUSH (-)		2	2	2				
17	3	X21201313	SPRING, BRUSH		4	4	4				
18	2	X21202350	COVER ASSY, REAR		1	1	1				
19	4	X21204302	METAL, COVER BEARING		1	1	1				
20	2	X21209400	BEARING ASSY		1	1	1				
21	3	X21204401	METAL, CENTER BERG.		1	1	1				
22	3	X21201403	SEAL, OIL		1	1	1				
23	2	X21202404	CENTER PIECE		1	1	1				
24	2	X21201404	PACKING, CENTER		1	1	1				
25	2	X21205550	PINION ASSY		1	1	1				
26	2	X212086001	HOUSING ASSY, GEAR		1	1	1				
27	3	X21202601	METAL, GEAR CASE		1	1	1				
28	2	X21204610	COVER, DUST		1	1	1				
29	2	X21201815	BOLT		2	2	2				
31	2	X21206605	LEVER SET, SHIFT		1	1	1				
37	2	X21207810	BOLT, THROUGH		2	2	2				
38	2	X21203750	SWITCH, MAGNETIC		1	1	1				
39	2	26557-040082	SCREW, M4X 8		6	6	6				
40	2	X21201836	COVER, RUBBER		1	1	1				
41	2	X21201742	COVER, RUBBER		1	1	1				
42	2	X21201744	COVER, RUBBER		1	1	1				

Fig.33. CLUTCH KBW-10A(FOR 2QM20)(OPTIONAL)



Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.49-1.

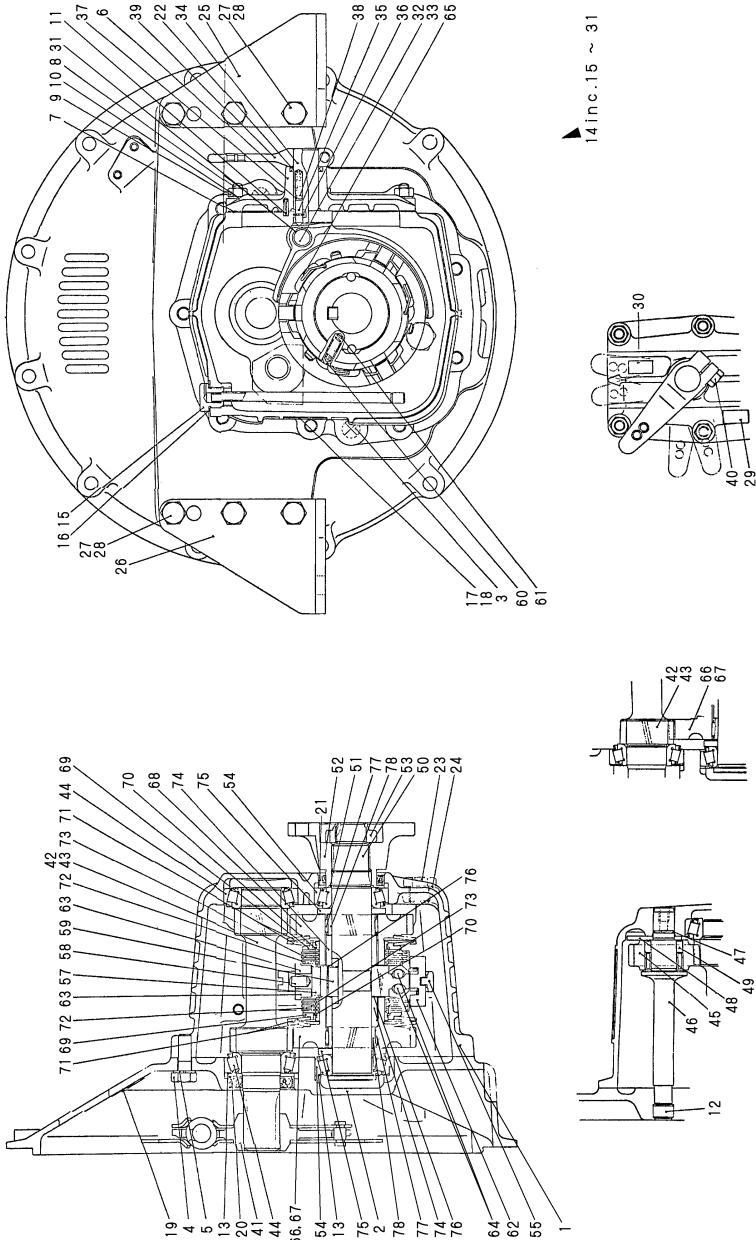
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177099-02110	HOUSING, CLUTCH		1						
2	1	177099-02120	FLANGE		1						
3	1	177099-02130	PIN, PARALLEL		2						
4	1	26116-100302	BOLT, M10X 30 PLATED		9						
5	1	22287-100000	WASHER, 10		9						
6	1	177099-02081	COVER		1						
7	1	177099-02091	GASKET		1						
8	1	26216-080222	STUD, M8X 22		6						
9	1	26716-080002	NUT, M8		6						
10	1	22287-080000	WASHER, 8		6						
11	1	22352-040012	SPRING PIN 4X12		1						
12	1	177099-06050	PLUG		1						
13	1	177099-02250	SHIM SET		2						
14	1	177099-06010	FORK ASSY		1						
15	2	177099-02450	DIPSTICK		1						
16	2	23414-160021	GASKET, 16X1.0		1						
17	2	177099-02421	LABEL		4						
18	2	102210-07990	RIVET		4						
19	2	177095-02400	LABEL		1						
20	2	177099-02950	SEAL TC30 52 8, OIL		1						
21	2	177099-02960	SEAL TC40 52 8, OIL		1						
22	2	177095-02980	SEAL, OIL		1						
23	2	23884-160002	PLUG 16		1						
24	2	23414-160000	GASKET, 16X1.0		1						
25	2	177080-02720	BRACKET		1						
26	2	177080-02730	BRACKET		1						
27	2	26116-100302	BOLT, M10X 30 PLATED		4						
28	2	22287-100000	WASHER, 10		6						
29	2	177090-02620	LABEL		1						
30	2	177090-02630	LABEL		1						
31	2	177095-06070	BEARING		2						
32	1	177099-06041	SHAFT, SHIFT		1						
33	1	177099-06050	PLUG		1						
34	1	177095-06030	CAM, SHIFT		1						
35	1	177095-06050	PIN		1						
36	1	177095-06140	CIRCLIP		1						
37	1	177095-03200	SPRING		1						
38	1	177095-06060	SPRING		1						
39	1	177095-06040	LEVER		1						
40	1	26116-080252	BOLT, M8X 25 PLATED		1						
41	1	177099-03500	DISK, DAMPER		1						
42	1	177099-03011	SHAFT, INPUT I=2.14		1						
43	1	177099-03411	SHAFT, INPUT I=2.83		1						
44	1	177099-03920	ROLLER BEARING		2						
45	1	177099-03301	GEAR, IDLE Z=25		1						
46	1	177099-03311	SHAFT, GEAR		1						
46-1	1	177099-03980	SHAFT, GEAR		1					S	1
(B=C/#2679)											
47	1	24341-000150	O-RING, 1AS15.0		1						
48	1	177099-03321	WASHER		1						
49	1	177099-03900	NEEDLE BEARING		2						

N:Old $\xleftrightarrow{\text{Yes}} \text{New}$, Q:Old $\xleftrightarrow{\text{No}} \text{New}$, R:Old $\xleftrightarrow{\text{Yes}} \text{New}$, S:Old $\xleftrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Fig.33. CLUTCH KBW-10A(FOR 2QM20)(OPTIONAL)

(A)=KH18-A
(B)=KBW-10A
(C)=

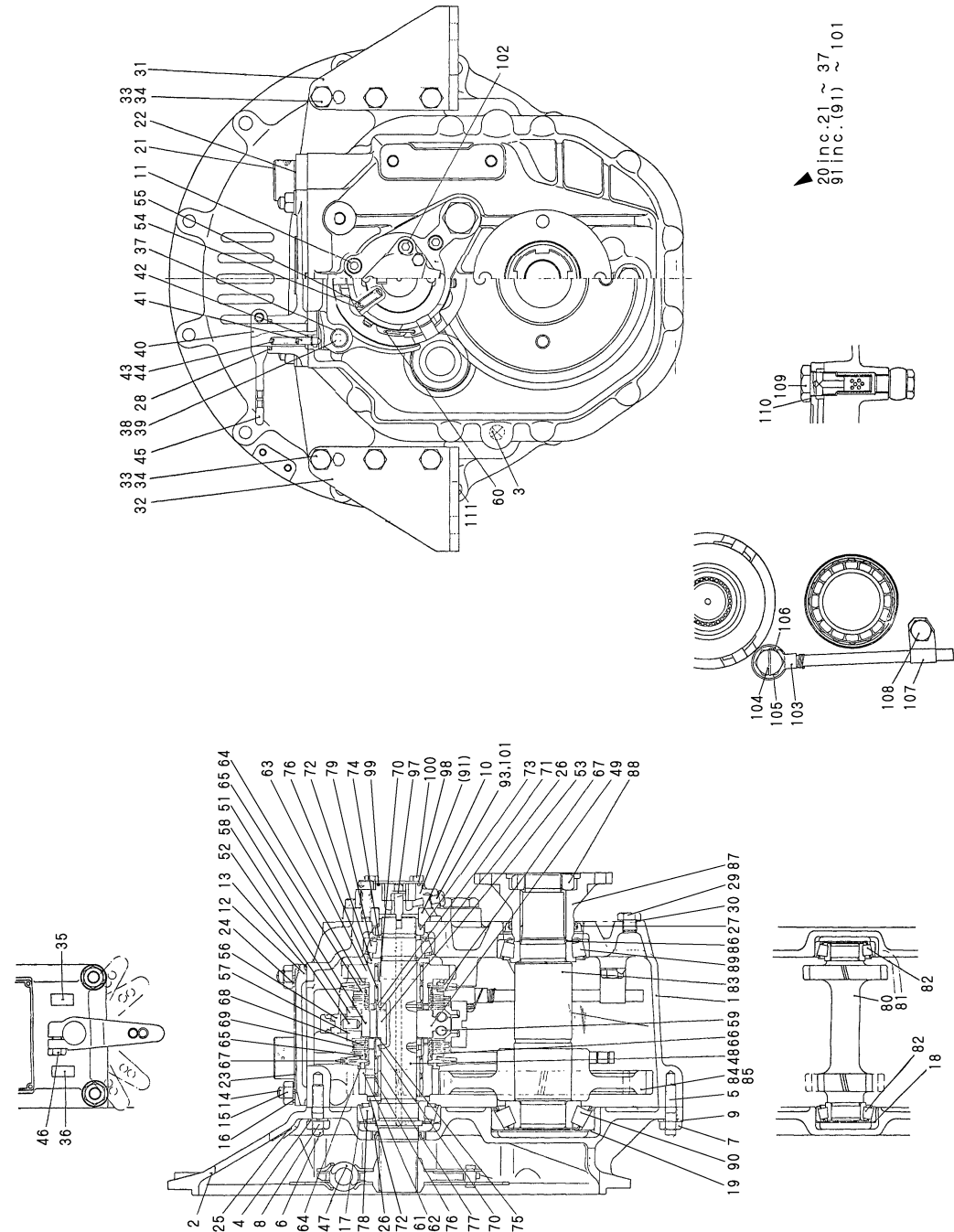
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
49-1	1	177099-03901	NEEDLE BEARING (B=C/#2679)		2						S
50	1	177099-03021	SHAFT, OUTPUT		1						
51	1	24321-000300	O-RING, 1AG30.0		1						
52	1	177099-03550	COUPLING		1						
53	1	177099-03540	NUT, LOCK		1						
54	1	177099-03920	ROLLER BEARING		2						
55	1	177099-03040	PLATE ASSY, DRIVE		1						
57	2	177095-03030	PIN, PARALLEL		2						
58	2	177095-03040	PIN, PARALLEL		3						
59	1	177090-03230	KEY		1						
60	1	177095-03190	PIN		3						
61	1	177095-03200	SPRING		3						
62	1	177099-03070	RING, SHIFT		1						
63	1	177099-03080	PLATE, PRESSURE		2						
64	1	177090-03180	BALL, STEEL		6						
65	1	177095-03210	SPRING		3						
66	1	177099-03101	GEAR, Z=47 I=2.14		1						
67	1	177099-03431	GEAR, Z=51 I=2.83		1						
68	1	177099-03111	GEAR, Z=45		1						
69	1	177090-03110	RETAINER		2						
70	1	177095-03280	CIRCLIP		2						
71	1	177090-03121	SPRING		4						
72	1	177090-03080	DISK, D78 T1.7		8						
73	1	177090-03090	PLATE, STEEL		6						
74	1	177099-03161	SPACER		2						
75	1	177090-03270	COLLAR, THRUST		2						
76	1	177095-03800	SHIM SET		2						
77	1	177095-03900	ROLLER BEARING		2						
78	1	177099-03470	RACE, INNER		2						

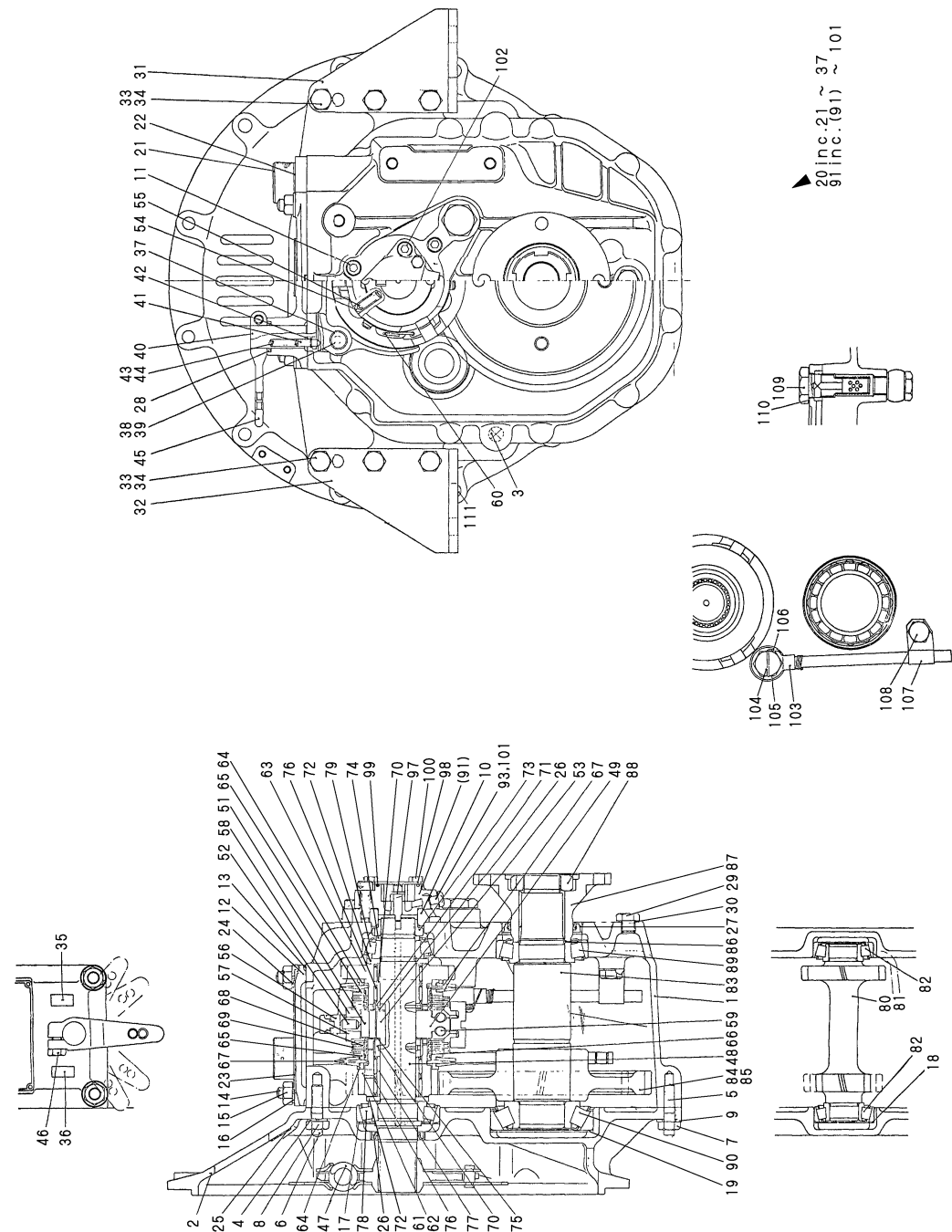
Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.49-1.

Fig.34. CLUTCH KH-18A(FOR 3QM30)(OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177090-02700	HOUSING, CLUTCH	1							
2	1	177091-02710	FLANGE	1							
3	1	177099-02130	PIN, PARALLEL	2							
4	1	22287-100000	WASHER, 10	8							
5	1	26223-100252	STUD, M10X 25	4							
6	1	26226-100252	STUD, M10X 25	8							
7	1	26713-100002	NUT, M10	4							
8	1	26716-100002	NUT, M10	8							
9	1	22133-100000	WASHER, 10	4							
10	1	177090-02800	SPACER	1							
11	1	26450-080222	BOLT, M8X 22	3							
12	1	177090-02070	COVER	1							
13	1	177090-02120	PACKING, COVER	1							
14	1	26226-100252	STUD, M10X 25	4							
15	1	26716-100002	NUT, M10	4							
16	1	22287-100000	WASHER, 10	4							
17	1	177095-02250	SHIM SET	1							
18	1	177090-02250	SHIM	1							
19	1	177095-02310	SHIM	1							
20	1	177090-06010	FORK ASSY, SHIFT	1							
21	2	177090-02451	DIPSTICK	1							
22	2	23418-270035	GASKET, 27X1.0	1							
23	2	177090-02421	LABEL	1							
24	2	102210-07990	RIVET	4							
25	2	177095-02400	LABEL	1							
26	2	177095-02960	SEAL SB35 47 7, OIL	1							
27	2	177090-02970	SEAL TC54 70 9, OIL	1							
28	2	177095-02980	SEAL, OIL	1							
29	2	23884-120002	PLUG M12,HEX.	1							
30	2	23414-120000	GASKET, 12X1.0	1							
31	2	177091-02720	BRACKET	1							
32	2	177091-02730	BRACKET	1							
33	2	26116-100282	BOLT M10X 28 PLATED	6							
34	2	22287-100000	WASHER, 10	6							
35	2	177090-02620	LABEL	1							
36	2	177090-02630	LABEL	1							
37	2	177095-06070	BEARING	2							
38	1	177090-06300	SHAFT, SHIFT	1							
39	1	177099-06050	PLUG	1							
40	1	177095-06030	CAM, SHIFT	1							
41	1	177095-06050	PIN	1							
42	1	177095-06140	CIRCLIP	1							
43	1	177095-03200	SPRING	1							
44	1	177095-06060	SPRING	1							
45	1	177095-06040	LEVER	1							
46	1	26116-080252	BOLT, M8X 25 PLATED	1							
47	1	177090-03500	DISC, DAMPER	1							
48	1	177090-03750	SHAFT, INPUT	1							
49	1	177090-03020	PLATE ASSY, DRIVE	1							
51	2	177095-03030	PIN, PARALLEL	2							
52	2	177095-03040	PIN, PARALLEL	3							

Fig.34. CLUTCH KH-18A(FOR 3QM30)(OPTIONAL)



OCR10-M09109 Fig.34									
(A)=KH18-A (B)=KBW-10A (C)=									
(D)= (E)= (F)=									
No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
53	1	177090-03230	KEY	1					
54	1	177095-03190	PIN	3					
55	1	177095-03200	SPRING	3					
56	1	177090-03050	RING, SHIFT	1					
57	1	177090-03060	PLATE, PRESSURE	1					
58	1	177090-03070	PLATE, PRESSURE	1					
59	1	177090-03180	BALL, STEEL	6					
60	1	177090-03210	SPRING	3					
61	1	177090-03300	PINION, Z=24 I=3	1					
62	1	177090-03600	PINION, Z=32	1					
63	1	177090-03310	GEAR, Z=36	1					
64	1	177090-03100	RETAINER	2					
65	1	177090-03110	RETAINER	2					
66	1	177095-03280	CIRCLIP	2					
67	1	177090-03121	SPRING	4					
68	1	177090-03080	DISK, D78 T1.7	8					
69	1	177090-03090	PLATE, STEEL	6					
70	1	177090-03130	SPACER	1					
71	1	177090-03140	SPACER	1					
72	1	177090-03270	COLLAR, THRUST	2					
73	1	177090-03760	NUT	1					
74	1	177095-03240	SPACER	1					
75	1	177095-03800	SHIM SET	2					
76	1	177095-03900	ROLLER BEARING	4					
77	1	177095-03150	BUSH	2					
78	1	24141-302070	BEARING, 30207	1					
79	1	24141-302060	BEARING, 30206	1					
80	1	177090-03320	GEAR, IDLE Z=17/26	1					
81	1	177090-03610	GEAR, IDLE Z=24/26	1					
82	1	24141-302050	BEARING, 30205	2					
83	1	177090-03800	SHAFT, OUTPUT	1					
84	1	177090-03810	GEAR, I=3 Z=72	1					
85	1	177090-03820	GEAR, OUTPUT Z=65	1					
86	1	24341-000380	O-RING, 1AS38.0	1					
87	1	177090-03391	COUPLING	1					
88	1	177090-03400	NUT	1					
89	1	24141-302080	BEARING, 30208	1					
90	1	177090-03920	ROLLER BERG. #30308	1					
91	1	777095-04900	PUMP ASSY, HYDRAULIC	1					
93	2	124060-32990	PLUG	2					
97	2	101304-32560	PIN	1					
98	2	124060-32070	COVER	1					
99	2	103338-32570	O-RING	1					
100	2	26116-060102	BOLT, M6X 10 PLATED	3					
101	2	23414-080000	GASKET, 8X1.0	2					
102	1	26450-080222	BOLT, M8X 22	2					
103	1	177090-07400	PIPE	1					
104	1	23851-100006	BOLT, JOINT 10	1					
105	1	23414-160000	GASKET, 16X1.0	2					
106	1	22451-100000	WIRE, 1.0	1					
107	1	177090-07410	RETAINER, PIPE	1					

N:Old

Yes

No

New

Q:Old

Yes

No

New

R:Old

Yes

No

New

S:Old

Yes

No

New

W:Add

Z:Discontinued

F:Interchangeable by set

K:Q'ty Change

++ CONTINUE ++

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(A)=KH18-A
(B)=KBW-10A
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
108	1	26116-100152	BOLT, M10X 15 PLATED	1							
109	1	177090-04400	STRAINER	1							
110	1	23414-200000	GASKET, 20X1.0	1							
111	1	177095-04120	GASKET, PUMP	1							

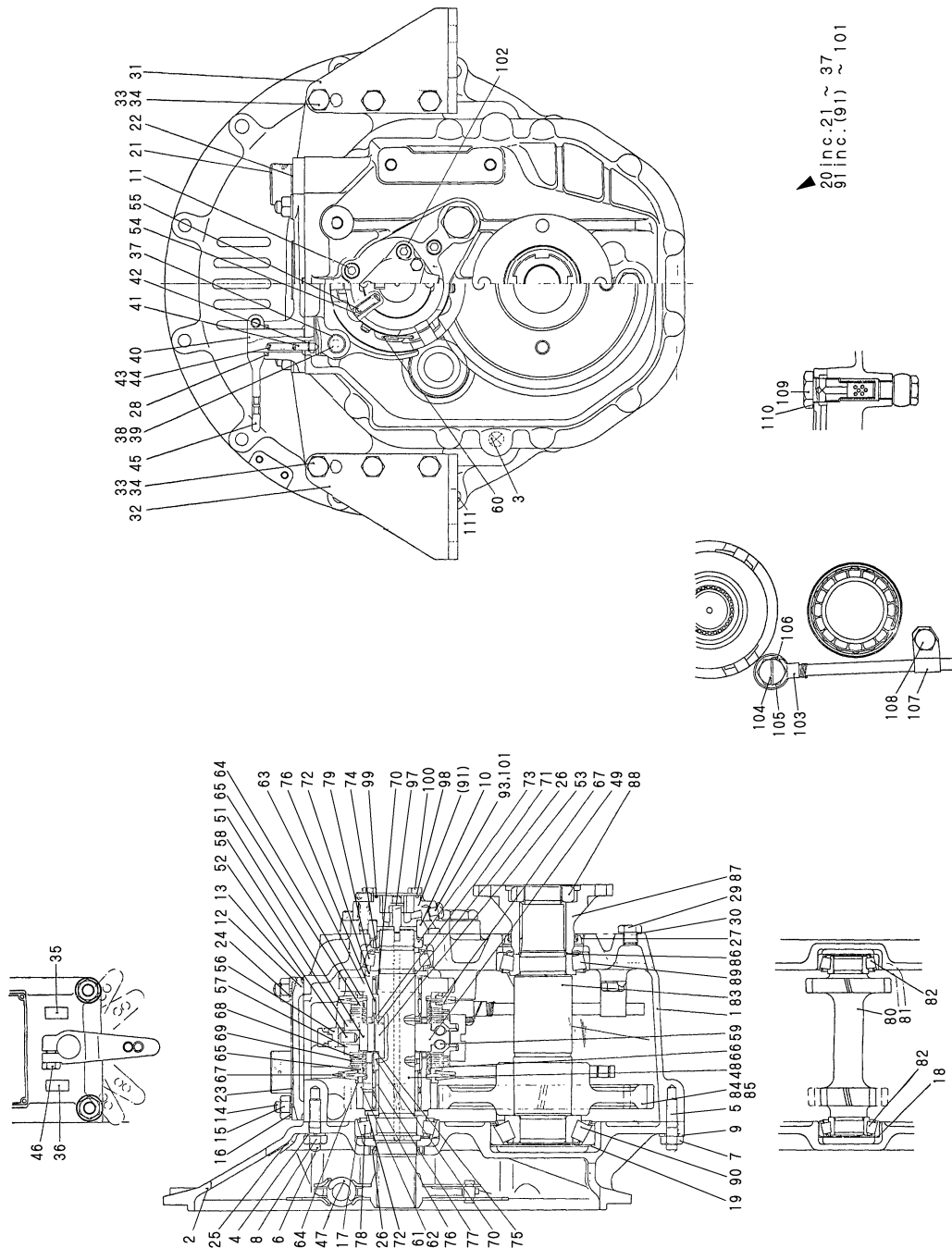


Fig.35. SPECIAL TOOL(KBW-10A & KH18-A)

(A)=KH18-A
(B)=KBW-10A
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177090-09010	SPACER	1	1						
2	1	177095-09020	TOOL, REPLACER	1	1						
3	1	177095-09060	TOOL, HOLDER	1							
4	1	177099-09040	PIPE		1						
5	1	177095-09170	TOOL, REPLACER		1						
6	1	177095-09070	SPRING	1	1						
7	1	177095-09080	WRENCH	1	1						
8	1	177095-09090	WRENCH	1							
9	1	177090-09100	WRENCH	1							
10	1	177099-09010	WRENCH		1						
11	1	177095-09110	PLATE, SUPPORT	1							
12	1	177099-09030	RETAINER		1						
13	1	177090-09130	PLATE, SUPPORT	1							
14	1	177090-09140	WRENCH	1							
15	1	177099-09020	WRENCH		1						
16	1	177090-09150	PIN	2							
17	1	22312-100200	PIN, PARALLEL M10X20		2						
18	1	177090-09160	SPACER	1	1						

Remarks
THIS FIGURE ARE NOT ILLUSTRATED.

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	22	7
101104-92180	26	15
101147-59810	1	67
	8	33
	15	80
101158-11230	3	51
101304-32560	34	97
101304-59020	15	42
		48
101400-55440	20	5
101400-92010	26	3
101404-92140	26	14
101720-51900	15	12 -1
102103-55520	15	10 -1
102210-07990	33	18
	34	24
103338-11180	3	10
103338-11190	3	11
103338-14200	5	6
103338-32570	34	99
103338-92020	26	2
103338-92030	26	4
103338-92100	26	8
103854-11490	3	42
	27	15
103854-53120	14	6
103854-53180	14	9
103854-59200	15	57
103854-66420	17	18
103884-03160	11	40
104200-03641	3	61
104200-11920	4	22
	11	37
104200-92130	26	11
104200-92350	25	7
104211-42050	10	38
104211-42070	10	43
104211-49060	12	17
		35
104211-49160	4	39
	12	37
	27	29
104211-82090	22	66
104211-83290	23	29
104214-03700	3	86
104214-39650	8	50
104214-83500	24	49
104214-83980	24	50

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104214-84450	22	34
104214-86030	16	4
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104264-59020	15	44
104264-59030	15	51
		54
104271-91350	21	9
104500-55710	15	5
	28	12
104511-11370	3	24
104571-91100	20	41
	21	13
104600-11100	3	5
104600-11110	3	6
104600-22300	7	7
104600-22400	7	8
104700-11350	3	8
104900-11410	3	40
104900-11450	3	41
	27	14
104900-53080	14	4
105582-49200	12	43
	28	15
105582-49900	12	9
105582-52010	15	72
105582-59020	15	49
105582-59150	15	67
105582-82090	22	67
	27	36
105582-82120	22	77
105582-82130	22	79
105582-82780	22	83
105582-84150	22	53
105582-84470	22	47
105583-85900	24	57
105584-59870	19	20
110250-53150	14	8
110250-55520	15	10
110250-55610	15	9
111154-51900	15	12
		58
113200-53110	14	5
113200-53120	14	7
120220-03660	3	71 -1
120220-13010	4	15
120220-13510	4	14
120220-82090	27	35
120220-82130	22	78
120220-82230	24	26

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120220-82280	24	33
120220-82300	24	30
120220-83060	24	2
		4
120220-83200	23	34
120220-83230	24	5
120220-83250	23	38
120220-83260	24	11
120220-83290	23	30
120220-83342	23	19
120220-83410	24	10
120220-83420	24	9
120220-83450	23	65
120220-83470	24	16
120220-83480	24	17
120220-83490	24	18
120220-84120	23	40
120220-84130	22	59
120220-84300	22	50
120220-84310	23	71
120220-84320	23	41
120220-84472	22	46
120220-84490	23	39
120221-83030	24	3
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120445-44530	11	66
120445-44540	11	67
120445-59220	15	50
120445-77950	11	40 -1
121150-51460	13	30
121250-01220	6	24
121250-01522	1	33
121250-01750	27	6
	29	5
121250-01751	1	52
	27	6 -1
	29	5 -1
121250-01791	1	34
121250-01850	1	73
121250-01950	1	70
121250-01951	1	70 -1
121250-01990	1	26
121250-02100	1	22
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121250-02110	6	19
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121250-02450	5	10
121250-11520	3	23
121250-11550	4	10
121250-12710	4	9
	29	8
121250-13520	4	52
	28	6
	29	11
121250-14010	5	2
121250-14100	5	5 -1
121250-21200	6	8 -1
121250-32201	8	3 -1
121250-35300	8	16
121250-35320	8	21
121250-35330	8	23
121250-35340	8	25
121250-39200	8	28
121250-59810	15	30
121250-59820	15	28
121250-59830	15	24
121250-59850	15	35
121250-59860	15	38
121250-66400	17	27
121250-77210	19	10
121252-39200	8	28 -1
121370-01330	1	43
	28	4
	29	7
121370-01331	1	43 -1
	28	4 -1
	29	7 -1
121370-01340	1	43 -2
121370-01850	12	45
121370-03680	3	64
121370-08340	1	96
121370-11080	3	21
121370-11310	3	83
	27	17
121370-11320	3	78
121370-11331	3	79
	27	18
121370-11750	3	25
121370-12730	4	6
121370-13160	4	28
121370-21591	6	40
121370-21651	6	11
121370-21680	6	46
121370-35061	8	12
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121370-49050	4	80
121370-49060	12	6
121370-49160	4	42
	12	38
	27	30
121370-49171	12	36
121370-49190	12	31
121370-55600	15	1
121370-55601	15	1 -1
121370-55730	15	7
121370-59010	15	40
121370-59030	15	46
121370-59500	15	77
121370-59810	15	22
121370-59820	15	26
121370-59830	15	29
121370-67100	16	21
	17	98
121370-77010	19	2
	32	1
121370-77200	19	3
	30	1
121370-77920	20	22
121370-77950	30	26
121370-83981	24	52
121370-85401	24	47
121370-85910	24	56
121370-86101	16	2
	22	42
121390-08120	1	87
121390-13250	4	41
121390-21650	6	13
121390-32001	8	2 -1
121390-32200	8	3 -2
121390-42030	9	6
	10	6
121390-42120	11	15
121390-42130	9	6 -1
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121390-42150	9	34
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121390-66150	17	31
121400-39240	15	85
121575-42150	9	33 -1
122117-51560	13	36
122310-83380	23	14
122310-83390	23	16
122310-83400	24	37
122310-83410	24	23
122310-83460	23	67
122310-83630	23	15
122310-83800	23	69
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122310-84450	23	55
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122310-84470	23	52
122410-61670	2	33
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123210-09310	3	29
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123220-46910	12	64
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	11	52
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123325-59100	15	36
123325-59110	15	37
123482-91250	20	8 -1
123482-91251	20	8 -2
123482-91290	20	9 -1
123482-91291	20	9 -2
123672-44190	11	29
123672-44200	11	30
123672-44210	11	32
123682-44220	11	33
123682-91340	20	18 -1
	28	18 -1
124060-01050	1	16
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124060-32990	34	93
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124070-91000	21	1
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124070-91030	21	10
124070-91160	20	43
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124070-91250	21	5
124070-91290	21	6
124070-91300	21	7
124070-91310	21	8
124160-01750	3	57 -1
124160-01751	3	57 -2
124160-01861	27	7
124160-01863	1	74
	27	7 -1
124160-01910	1	5 -1
		27
124160-21670	6	9
124160-21700	6	43
124160-34842	27	20
124160-34843	27	20 -1
124160-34844	1	29
	27	20 -2
124160-39140	8	29
124160-39450	20	21
	28	17
124210-83150	23	17
124210-83270	24	6
		8
124210-83360	22	76
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124210-83370	23	22
	29	19
124210-84402	23	56
124210-84410	23	58
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	11	50
	12	14
124220-35210	15	6
124220-35220	15	8
124220-35230	15	15
124220-35240	15	14
124220-35270	15	11
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124223-42070	9	13
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124223-42080	9	17
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124223-42091	9	19
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	28	13
124223-42110	9	31
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	27	25
124223-42120	9	26
	10	27
124223-42140	9	29
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	27	27
124223-42150	9	33
124223-42160	9	15
	10	15
124223-46011	10	36
124223-46100	12	66
124223-46150	10	45
124223-46950	12	67
124223-48050	12	52
		60
124223-48400	12	62
124223-49050	12	50
		56
124223-49300	4	32
		68
	12	18
		34
124223-49750	1	79
	4	26
	11	39
124223-59400	15	86
124223-59850	15	43
124223-77840	20	29
124223-92800	1	88
124227-21920	6	44
124227-83220	24	20
124240-01881	2	24
	27	10
124240-01882	2	24 -1
	27	10 -1
124240-42291	19	5
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