

0CS10-M52701EN

# P R E F A C E

1 . This Parts Catalog carries Yanmar crawler back-hoe Vio27-5B(for U.S.A. ,Australia ,New Zealand & Singapore.)

(M/# 53001)

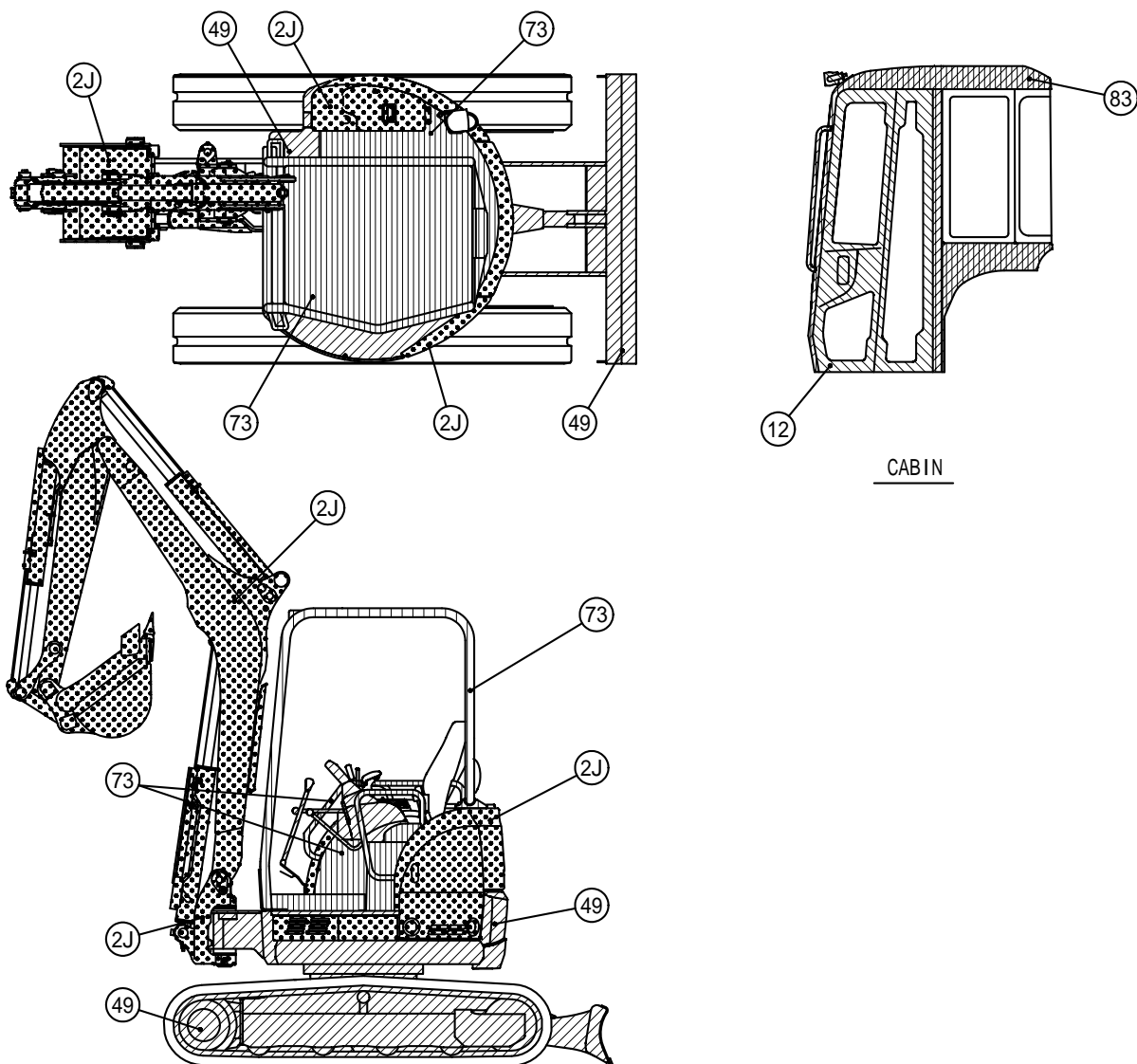
2 . Parts catalog history




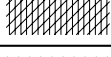
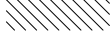
		Parts catalog NO.	Published	Remarks
1st edition	Vehicle	OCS10-M52700	Apr. ,2008	Disuse old edition
	Engine	OCB10-M74401		
1st revised	Vehicle	OCS10-M52701	Jul . ,2013	
	Engine	OCB10-M74401		

3 . Your understanding is asking that this parts catalog is not a technical data manual setting forth as servicing procedures, This parts catalog is using simplified illustration.

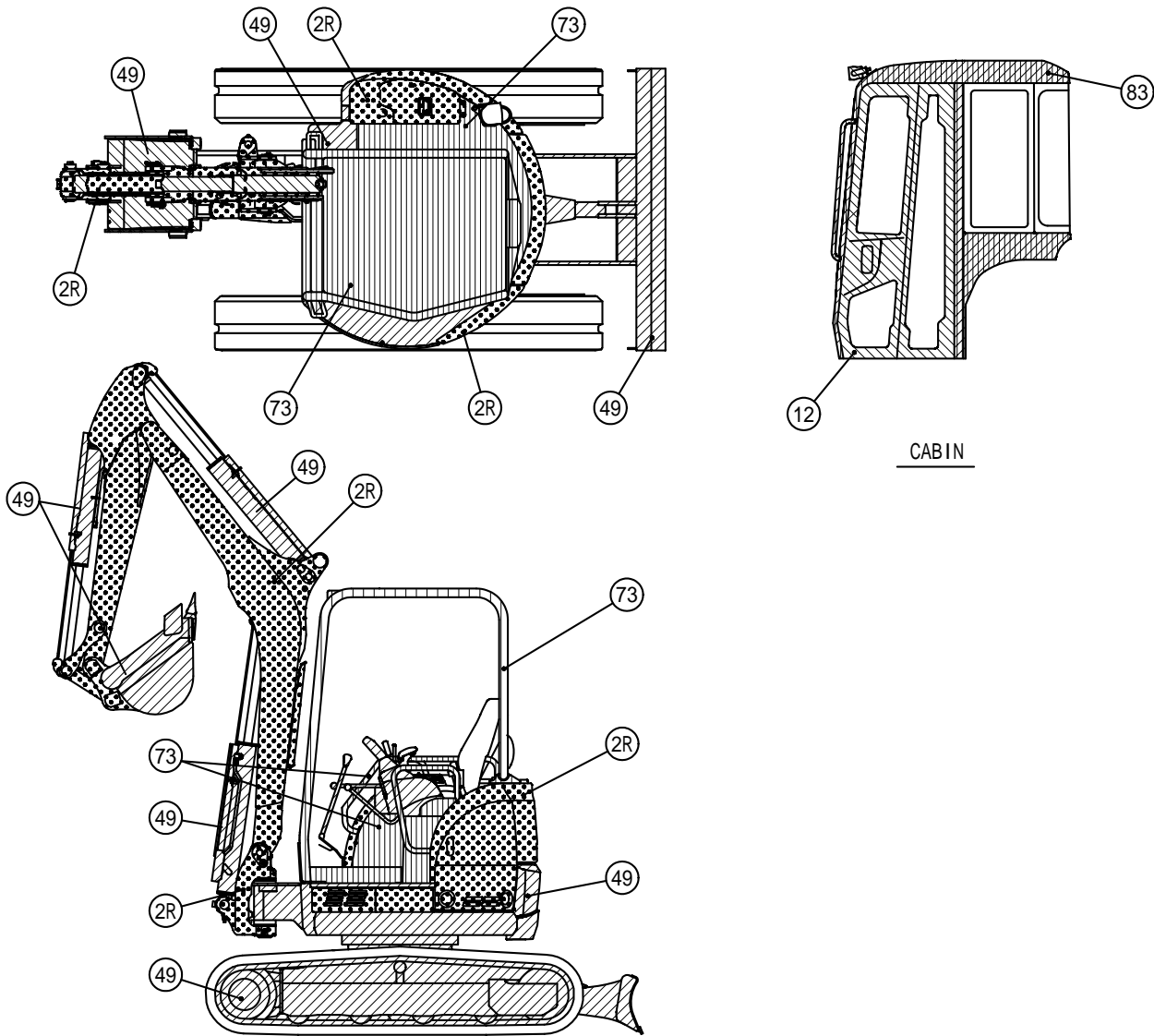
Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.




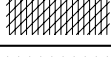
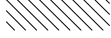
# VEHICLE PAINTED COLOR(1)(TO M54000)



Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
2J		YANMAR New Permanent Yellow 2	981101-09520	977620-40871	977620-30872
73		YANMAR Warm Gray	-----	-----	TOR-94800730
83		YANMAR Grayish Green	981101-09615	977620-40830	977620-30N41
12		YANMAR Black	-----	TOR-91220001	TOR-94800120

# VEHICLE PAINTED COLOR(2) (FROM M54001)



Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
2R		YANMAR Turmeric Yellow	-----	977620-41001	977620-41002
73		YANMAR Warm Gray	-----	-----	TOR-94800730
83		YANMAR Grayish Green	981101-09615	977620-40830	977620-30N41
12		YANMAR Black	-----	TOR-91220001	TOR-94800120

# PICTURESQUE INDEX (1) ■ ■ ■ MAIN PARTS

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↗

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↘

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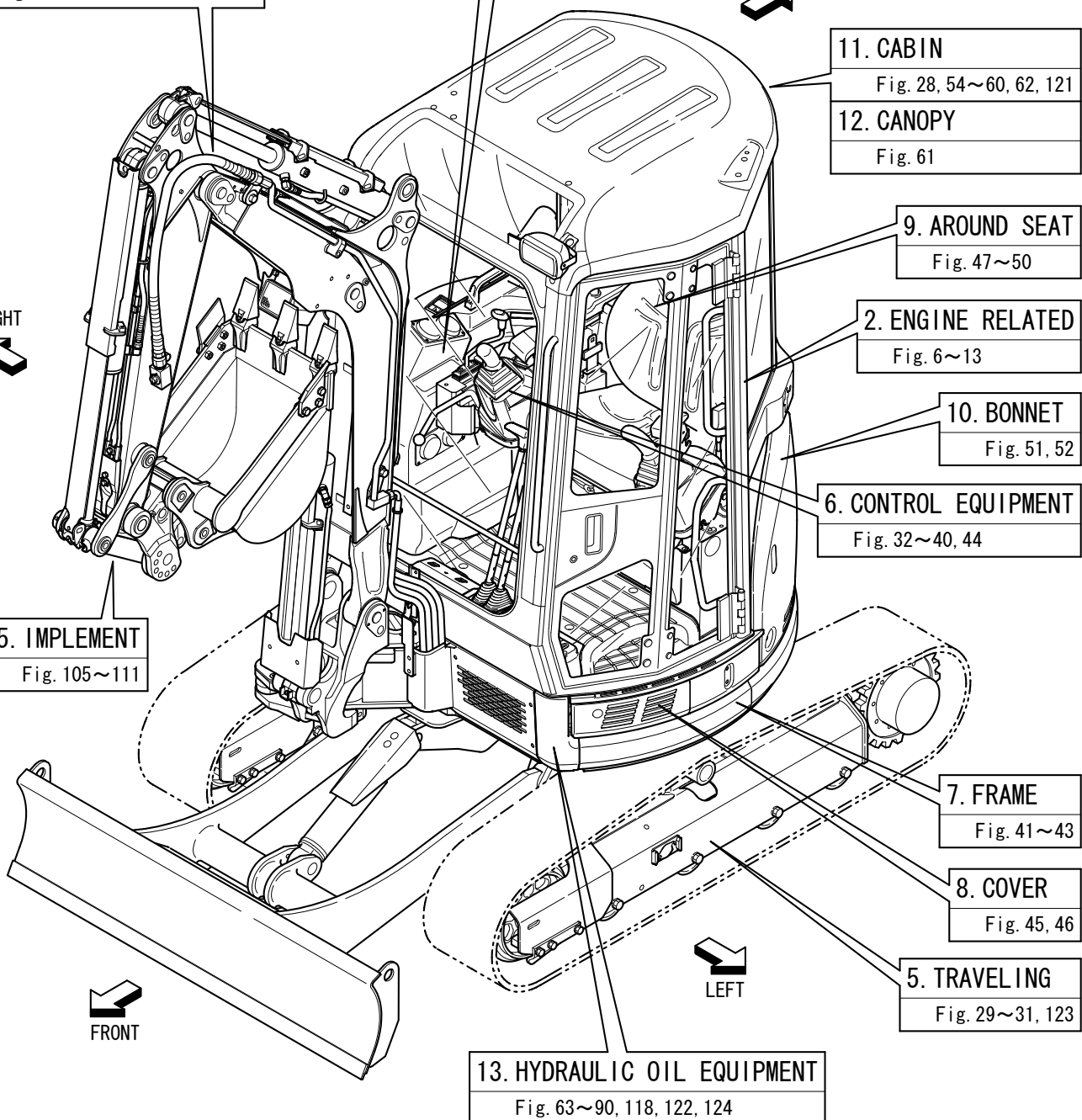
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↙

13. HYDRAULIC OIL EQUIPMENT  
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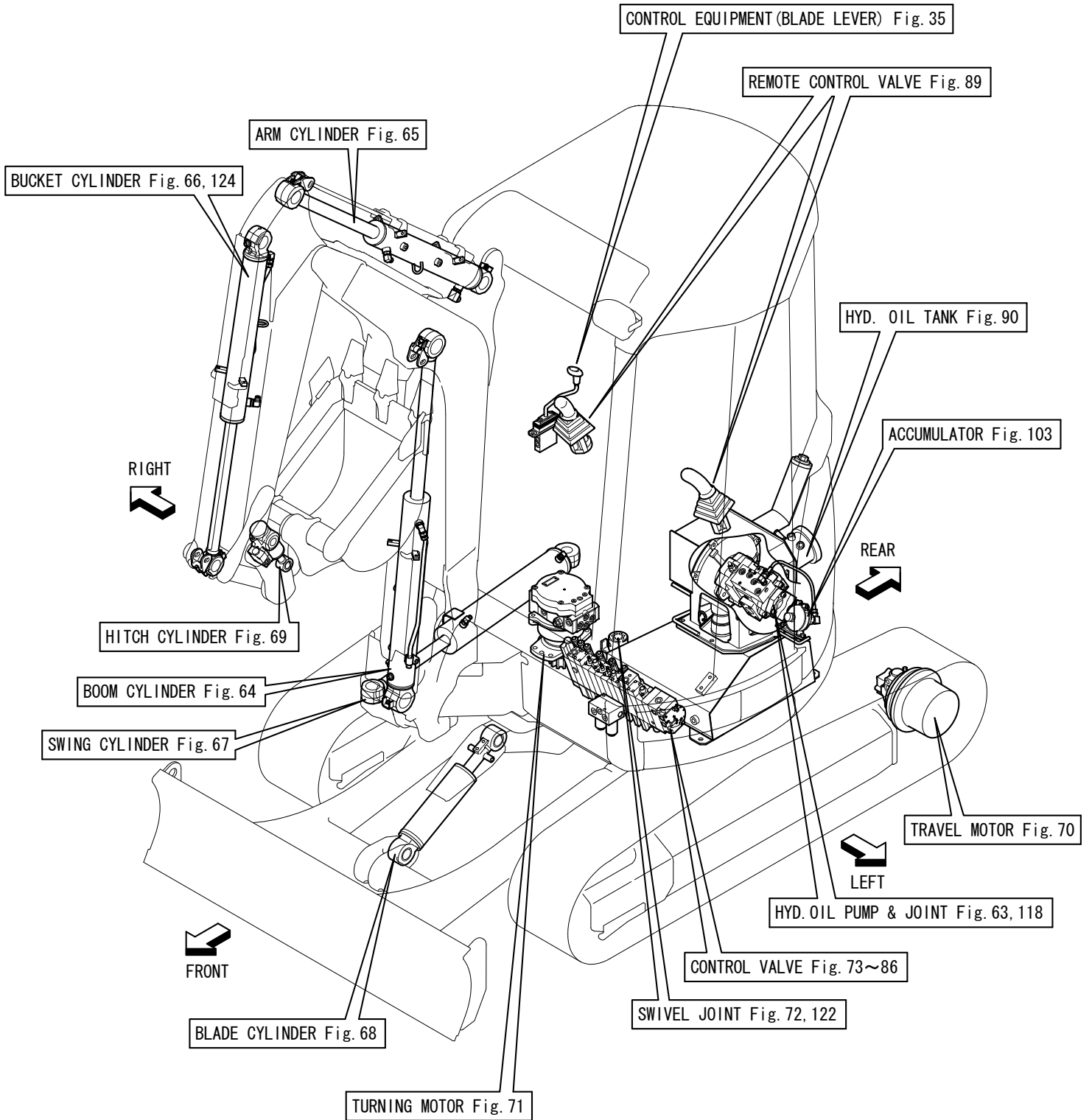
FRONT  
↖



# PICTURESQUE INDEX (2) ■ ■ ■ HYDRAULIC SECTION

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4. SAFETY LABEL(CANOPY)
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7. ACCELERATOR
8. ENGINE MOUNT
9. RADIATOR SHURAUD
10. RADIATOR & SUB-TANK
11. DUCT
12. FUEL TANK
13. FUEL LINE

## ELECTRICAL PARTS

14. BATTERY
15. ELECTRIC PART(AROUND ENGINE)
16. ELECTRIC PART(AROUND FRAME)
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18. ELECTRIC PART(AROUND SEAT)
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Fig. No. Fig. Name

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Fig. No. Fig. Name

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- 55. CABIN(ACCESSORY)
- 56. CABIN(ELECTRIC PART)
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- 59. CABIN(COVER)(TO M53438)
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- 62. REARVIEW MIRROR

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- 61. CANOPY

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- 64. BOOM CYLINDER
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- 122. (72A)SWIVEL JOINT(N SPEC.)(FROM M54435)
- 73. CONTROL VALVE(SG:1/7)
- 74. CONTROL VALVE(SG:2/7)
- 75. CONTROL VALVE(SG:3/7)
- 76. CONTROL VALVE(SG:4/7)
- 77. CONTROL VALVE(SG:5/7)
- 78. CONTROL VALVE(SG:6/7)
- 79. CONTROL VALVE(SG:7/7)
- 80. CONTROL VALVE(US,AS,NZ:1/7)
- 81. CONTROL VALVE(US,AS,NZ:2/7)
- 82. CONTROL VALVE(US,AS,NZ:3/7)
- 83. CONTROL VALVE(US,AS,NZ:4/7)
- 84. CONTROL VALVE(US,AS,NZ:5/7)
- 85. CONTROL VALVE(US,AS,NZ:6/7)
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Fig. No. Fig. Name

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- 92. HYD.OIL PIPING(CONTROL VALVE - TURNING MOTOR)
- 93. HYD.OIL PIPING(CONTROL VALVE : FITTING)
- 94. HYD.OIL PIPING(CONTROL VALVE - BOOM, SWING)
- 95. HYD.OIL PIPING(CONTROL VALVE - BOOM CYLINDER)
- 96. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT)
- 97. HYD.OIL PIPING(TRACK FRAME)
- 98. HYD.OIL PIPING(BOOM)
- 99. HYD.OIL PIPING(P.T.O. : SOLENOID VALVE - CONTROL VALVE)
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Fig. No. Fig. Name

## OPTIONAL & KIT

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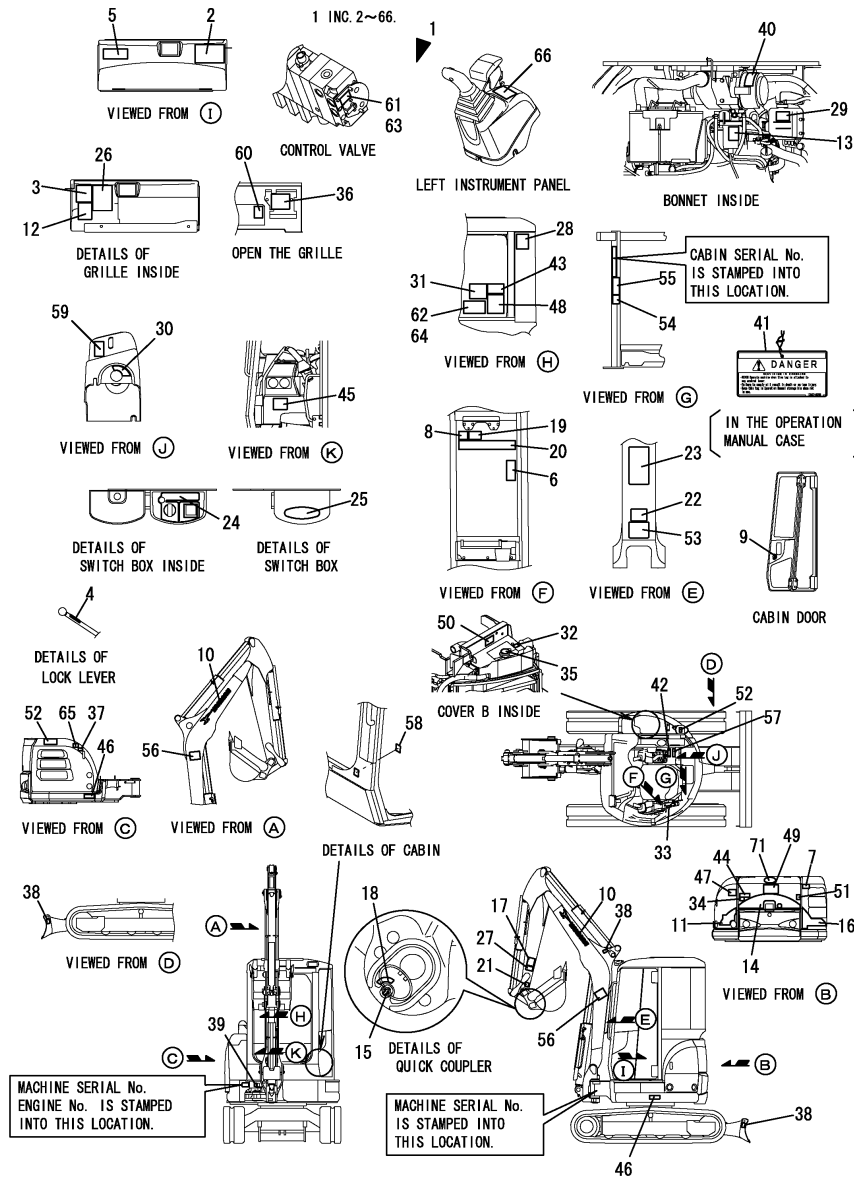
114. HOLDING VALVE KIT(3)(OPTIONAL)

115. HOLDING VALVE KIT(4)(OPTIONAL)

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117. LABEL(FRANCH FOR CANADA)(OPTIONAL)

Fig.1. LABEL(CABIN)



(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=

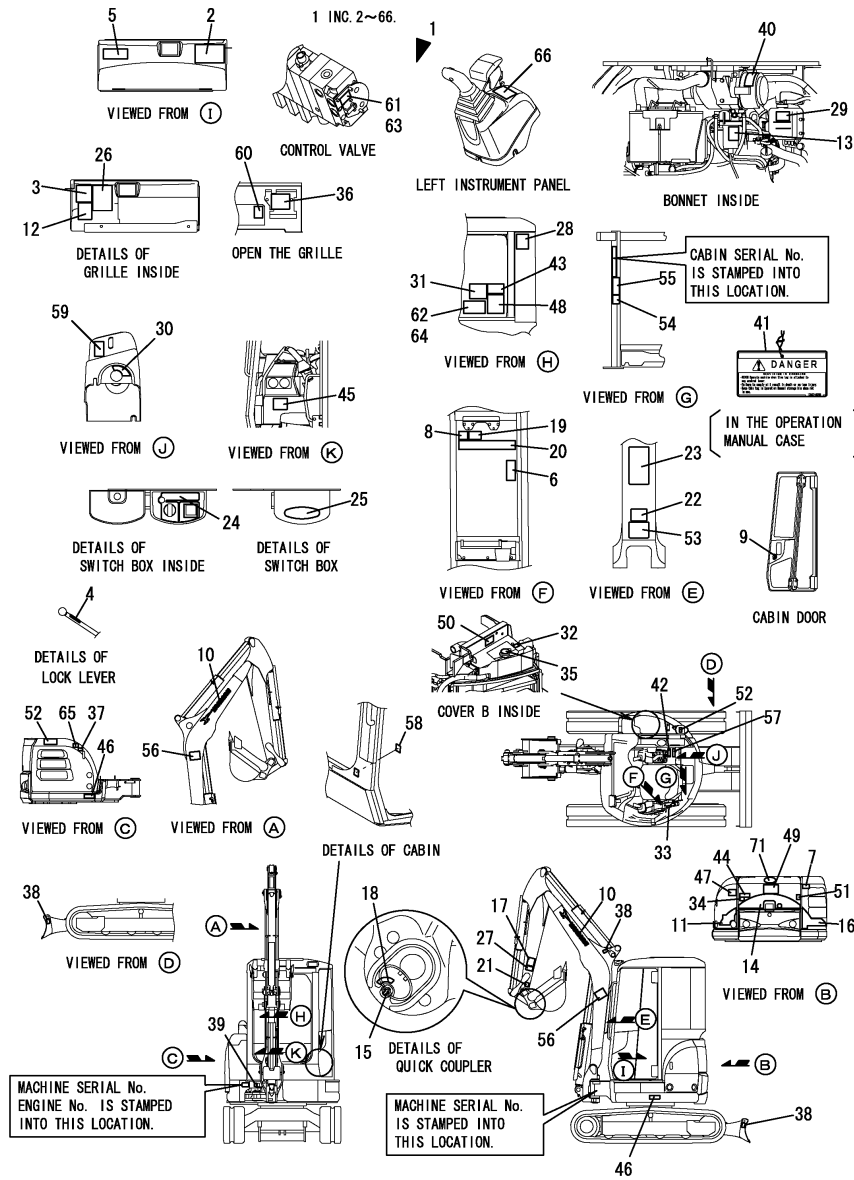
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A84-03170	SET,LABEL VIO27-5BUS	1	1	1	1				
1-1	1	772A84-03171	SET,LABEL VIO27-5BUS	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
2	2	172472-03141	LABEL, SUPPORT	1	1	1	1				
3	2	172437-03242	LABEL, CRAWLER	1	1	1	1				1
4	2	172183-03280	LABEL, LOCK	1	1	1	1				
5	2	172A84-03320	LABEL SPEC US	1	1	1	1				
5-1	2	172A84-03321	LABEL SPEC US	1	1	1	1				N
		(A=M/#53092) (B=M/#53092) (C=M/#53092) (D=M/#53092)									
6	2	172463-03320	LABEL,F/W LOWER US	1	1	1	1				
7	2	172A36-03411	LABEL, ENGINE ROOM	1	1	1	1				
8	2	172437-03551	LABEL, WINDOW US	1	1	1	1				
9	2	172458-03601	LABEL, DOOR LOCK	1	1	1	1				
10	2	172531-03030	LABEL, YANMAR	2	2	2	2				
10-1	2	172A77-03030	LABEL, YANMAR	2	2	2	2				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
11	2	172A44-03151	LABEL,SPECIFICATION	1	1	1	1				
11-1	2	172A44-03152	LABEL,SPECIFICATION	1	1	1	1				S 3
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
11-2	2	172A84-03150	LABEL, MODEL L	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
12	2	172467-03150	LABEL, GREASING	1	1	1	1				
12-1	2	172467-03151	LABEL,GREASING	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
13	2	172A07-03160	LABEL	1	1	1	1				
14	2	172A46-03161	LABEL, REAR	1	1	1	1				
15	2	172958-03160	LABEL	1	1	1	1				
16	2	172A44-03171	LABEL,SPECIFICATION	1	1	1	1				
16-1	2	172A44-03172	LABEL,SPECIFICATION	1	1	1	1				S 3
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
16-2	2	172A84-03170	LABEL, MODEL R	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
17	2	172472-03230	LABEL, OPERATION	1	1	1	1				
18	2	172458-03240	LABEL, LOCK	1	1	1	1				
19	2	172472-03241	LABEL, PINUS	1	1	1	1				
20	2	172472-03250	LABEL, OPERATION	1	1	1	1				
21	2	172472-03261	LABEL, FINGER	1	1	1	1				
22	2	172472-03271	LABEL, SANDUS	1	1	1	1				
23	2	172472-03281	LABEL, WARNING HITCH	1	1	1	1				
24	2	172472-03290	LABEL, SWITCH	1	1	1	1				
25	2	172472-03300	LABEL, COVER	1	1	1	1				
26	2	172A46-03330	LABEL,OIL & WATER	1	1	1	1				
27	2	172472-03330	LABEL, LOCK PIN	1	1	1	1				
28	2	172A44-03352	LABEL,LIFT Q US	1	1	1	1				
29	2	172A38-03201	LABEL, SUB TANK	1	1	1	1				
30	2	172A64-03700	LABEL, START SWITCH	1	1	1	1				
31	2	172490-03200	LABEL, OPERATION	1	1	1	1				
32	2	172A38-03211	LABEL, ANTI-FREEZING	1	1	1	1				
33	2	172458-03220	LABEL, ACCELERATOR	1	1	1	1				
34	2	172463-03290	LABEL, HYD.OIL	1	1	1	1				
35	2	172462-03320	LABEL, RADIATOR	1	1	1	1				

Remarks  
 (1)Rubber crawler spec.  
 (2)SG spec.  
 (3)Interchangeable by simultaneous replacement with Ref.No.11-1,16-1.

Fig.1. LABEL(CABIN)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



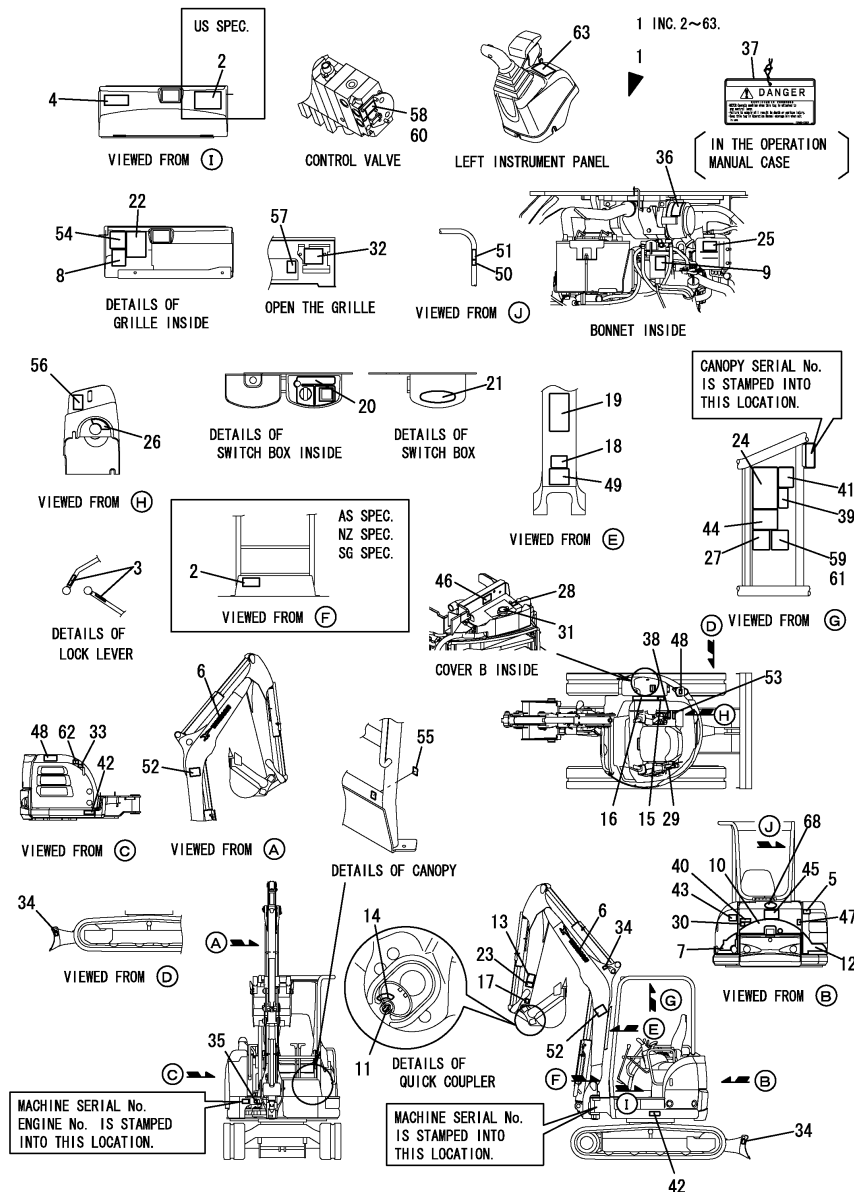
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
36	2	172A47-03340	LABEL, FUSE	1	1	1	1				
36-1	2	172A47-03341	LABEL,FUSE US	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
37	2	172437-03501	LABEL, FUEL	1	1	1	1				
38	2	172437-03511	LABEL, HOOK	3	3	3	3				
39	2	172156-03740	LABEL, GREASE	1	1	1	1				
40	2	172125-03951	LABEL, AIR CLEANER	1	1	1	1				
41	2	172437-03252	TAG ASSY, CAUTION	1	1	1	1				
42	2	172437-03302	LABEL, MANUAL	1	1	1	1				
43	2	172437-03312	LABEL, SLOPE	1	1	1	1				
44	2	172437-03322	LABEL, RESEVOIR	1	1	1	1				
45	2	172437-03343	LABEL, TRANSPORT	1	1	1	1				
46	2	172437-03352	LABEL, CYLINDER	2	2	2	2				
47	2	172437-03361	LABEL, BATTERY	1	1	1	1				
48	2	172437-03372	LABEL, NEUTRAL	1	1	1	1				
49	2	172437-03381	LABEL, SWING AREA	1	1	1	1				
50	2	172437-03391	LABEL, RADIATOR	1	1	1	1				
51	2	172437-03402	LABEL, ENGINE COVER	1	1	1	1				
52	2	172437-03422	LABEL, MUFFLER	2	2	2	2				
53	2	172437-03432	LABEL, STEERING	1	1	1	1				
54	2	172437-03441	LABEL, ROPS	1	1	1	1				
55	2	172437-03451	LABEL, SEAT BELT	1	1	1	1				
56	2	172437-03461	LABEL, BOOM	2	2	2	2				
57	2	172437-03471	LABEL, LEVER LOCK	1	1	1	1				
58	2	172A47-03250	LABEL, PTO FOOT	1	1	1	1				
59	2	172A47-03260	LABEL, PTO SWITCH	1	1	1	1				
60	2	172A47-03270	LABEL, PTO SELECT	1	1	1	1				
61	2	172A47-03220	LABEL,2-WAY	1	1	1					
62	2	172437-03601	LABEL, 2-WAY US	1	1	1					
63	2	172A47-03390	LABEL,MULTILEVER US							1	2
64	2	172A47-03410	LABEL,4 WAY US							1	2
65	2	114110-07760	LABEL, FUEL CAUTION	1	1	1	1				
65-1	2	114110-07761	LABEL, FUEL OIL CAUT	1	1	1	1				N
		(A=M53499) (B=M53499) (C=M53499) (D=M53499)									
66	2	172A47-03371	LABEL,PTO EX	1	1	1	1				W
		(A=M53005) (B=M53005) (C=M53005) (D=M53005)									
71	1	172A77-03110	EMBLEM ASSY	1	1	1	1				W
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									

Remarks  
 (1)Rubber crawler spec.  
 (2)SG spec.  
 (3)Interchangeable by simultaneous replacement with Ref.No.11-1,16-1.

Fig.2. LABEL(CANOPY)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



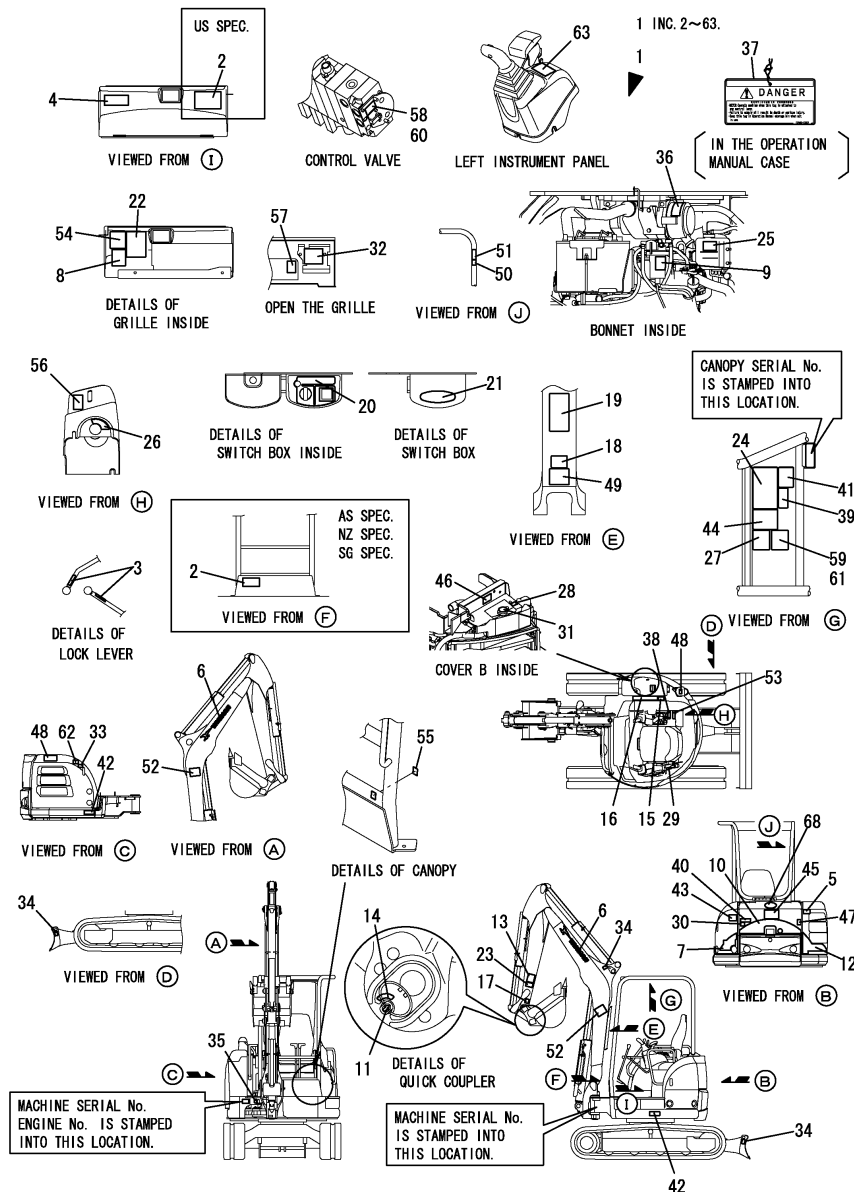
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A84-03150	SET,LABEL VIO27-5BUS	1	1	1	1				
1-1	1	772A84-03151	SET,LABEL VIO27-5BUS	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
2	2	172472-03141	LABEL, SUPPORT	2	2	2	2				
3	2	172183-03280	LABEL, LOCK	2	2	2	2				
4	2	172A84-03320	LABEL SPEC US	1	1	1	1				
4-1	2	172A84-03321	LABEL SPEC US	1	1	1	1				N
		(A=M/#53092) (B=M/#53092) (C=M/#53092) (D=M/#53092)									
5	2	172A36-03411	LABEL, ENGINE ROOM	1	1	1	1				
6	2	172531-03030	LABEL, YANMAR	2	2	2	2				
6-1	2	172A77-03030	LABEL, YANMAR	2	2	2	2				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
7	2	172A44-03151	LABEL, SPECIFICATION	1	1	1	1				
7-1	2	172A44-03152	LABEL, SPECIFICATION	1	1	1	1				S 3
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
7-2	2	172A84-03150	LABEL, MODEL L	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
8	2	172467-03150	LABEL, GREASING	1	1	1	1				
8-1	2	172467-03151	LABEL, GREASING	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
9	2	172A07-03160	LABEL	1	1	1	1				
10	2	172A46-03161	LABEL, REAR	1	1	1	1				
11	2	172958-03160	LABEL	1	1	1	1				
12	2	172A44-03171	LABEL, SPECIFICATION	1	1	1	1				
12-1	2	172A44-03172	LABEL, SPECIFICATION	1	1	1	1				S 3
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
12-2	2	172A84-03170	LABEL, MODEL R	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
13	2	172472-03230	LABEL, OPERATION	1	1	1	1				
14	2	172458-03240	LABEL, LOCK	1	1	1	1				
15	2	172472-03241	LABEL, PINUS	1	1	1	1				
16	2	172472-03250	LABEL, OPERATION	1	1	1	1				
17	2	172472-03261	LABEL, FINGER	1	1	1	1				
18	2	172472-03271	LABEL, SANDUS	1	1	1	1				
19	2	172472-03281	LABEL, WARNING HITCH	1	1	1	1				
20	2	172472-03290	LABEL, SWITCH	1	1	1	1				
21	2	172472-03300	LABEL, COVER	1	1	1	1				
22	2	172A46-03330	LABEL, OIL & WATER	1	1	1	1				
23	2	172472-03330	LABEL, LOCK PIN	1	1	1	1				
24	2	172A44-03352	LABEL, LIFT Q US	1	1	1	1				
25	2	172A38-03201	LABEL, SUB TANK	1	1	1	1				
26	2	172A64-03700	LABEL, START SWITCH	1	1	1	1				
27	2	172490-03200	LABEL, OPERATION	1	1	1	1				
28	2	172A38-03211	LABEL, ANTI-FREEZING	1	1	1	1				
29	2	172458-03220	LABEL, ACCELERATOR	1	1	1	1				
30	2	172463-03290	LABEL, HYD.OIL	1	1	1	1				
31	2	172462-03320	LABEL, RADIATOR	1	1	1	1				
32	2	172A47-03340	LABEL, FUSE	1	1	1	1				
32-1	2	172A47-03341	LABEL, FUSE US	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
33	2	172437-03501	LABEL, FUEL	1	1	1	1				

Remarks  
(1)Rubber crawler spec.  
(2)SG spec.  
(3)Interchangeable by simultaneous replacement with Ref.No.7-1,12-1.

Fig.2. LABEL(CANOPY)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



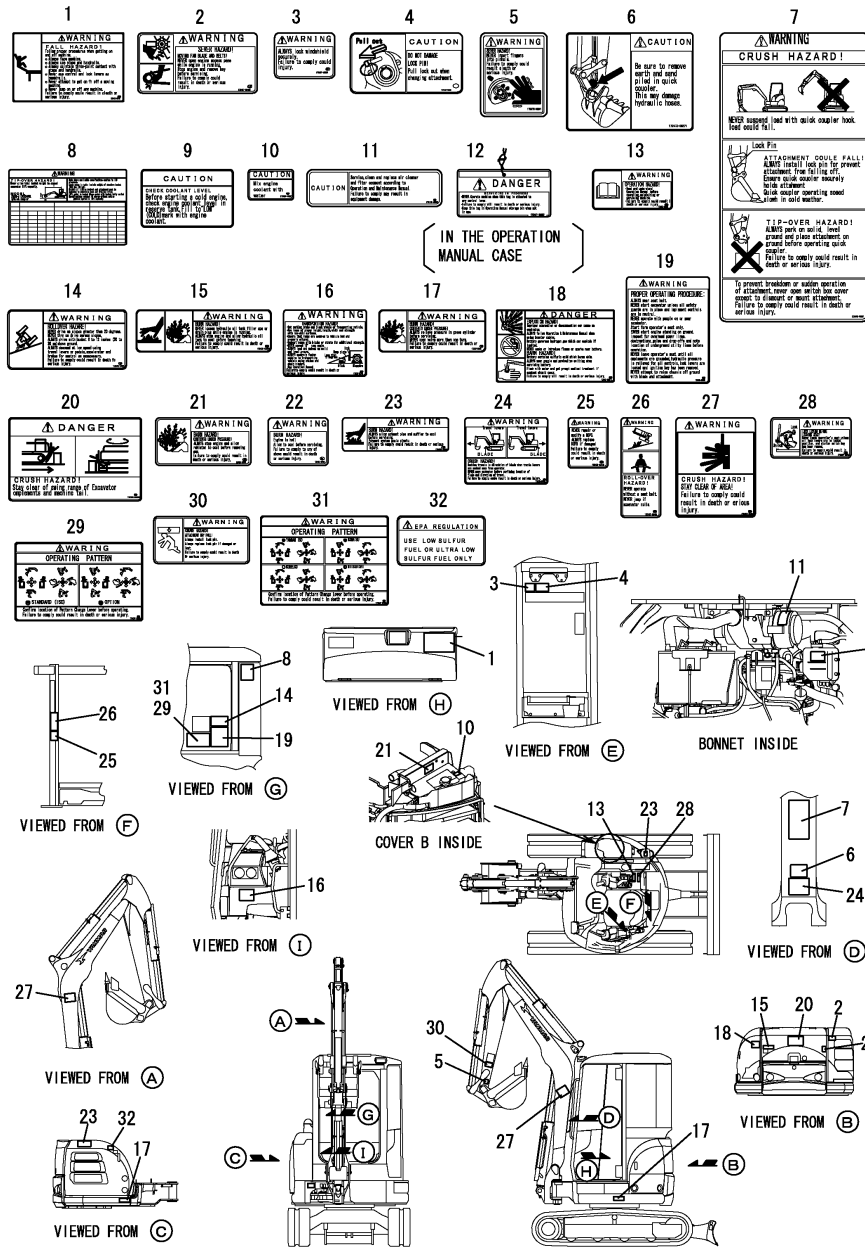
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
34	2	172437-03511	LABEL, HOOK	3	3	3	3				
35	2	172156-03740	LABEL, GREASE	1	1	1	1				
36	2	172125-03951	LABEL, AIR CLEANER	1	1	1	1				
37	2	172437-03252	TAG ASSY, CAUTION	1	1	1	1				
38	2	172437-03302	LABEL, MANUAL	1	1	1	1				
39	2	172437-03312	LABEL, SLOPE	1	1	1	1				
40	2	172437-03322	LABEL, RESEVOIR	1	1	1	1				
41	2	172437-03343	LABEL, TRANSPORT	1	1	1	1				
42	2	172437-03352	LABEL, CYLINDER	2	2	2	2				
43	2	172437-03361	LABEL, BATTERY	1	1	1	1				
44	2	172437-03372	LABEL, NEUTRAL	1	1	1	1				
45	2	172437-03381	LABEL, SWING AREA	1	1	1	1				
46	2	172437-03391	LABEL, RADIATOR	1	1	1	1				
47	2	172437-03402	LABEL, ENGINE COVER	1	1	1	1				
48	2	172437-03422	LABEL, MUFFLER	2	2	2	2				
49	2	172437-03432	LABEL, STEERING	1	1	1	1				
50	2	172437-03441	LABEL, ROPS	1	1	1	1				
51	2	172437-03451	LABEL, SEAT BELT	1	1	1	1				
52	2	172437-03461	LABEL, BOOM	2	2	2	2				
53	2	172437-03471	LABEL, LEVER LOCK	1	1	1	1				
54	2	172437-03242	LABEL, CRAWLER	1	1	1	1				1
55	2	172A47-03250	LABEL, PTO FOOT	1	1	1	1				
56	2	172A47-03260	LABEL, PTO SWITCH	1	1	1	1				
57	2	172A47-03270	LABEL, PTO SELECT	1	1	1	1				
58	2	172A47-03220	LABEL, 2-WAY	1	1	1					
59	2	172437-03601	LABEL, 2-WAY US	1	1	1					
60	2	172A47-03390	LABEL, MULTILEVER US							1	2
61	2	172A47-03410	LABEL, 4 WAY US							1	2
62	2	114110-07760	LABEL, FUEL CAUTION	1	1	1	1				
62-1	2	114110-07761	LABEL, FUEL OIL CAUT	1	1	1	1				N
		(A=M53499)	(B=M53499)	(C=M53499)	(D=M53499)						
63	2	172A47-03371	LABEL, PTO EX	1	1	1	1				W
		(A=M53005)	(B=M53005)	(C=M53005)	(D=M53005)						
68	1	172A77-03110	EMBLEM ASSY	1	1	1	1				W
		(A=M54001)	(B=M54001)	(C=M54001)	(D=M54001)						

Remarks  
 (1)Rubber crawler spec.  
 (2)SG spec.  
 (3)Interchangeable by simultaneous replacement with Ref.No.7-1,12-1.

Fig.3. SAFETY LABEL(CABIN)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



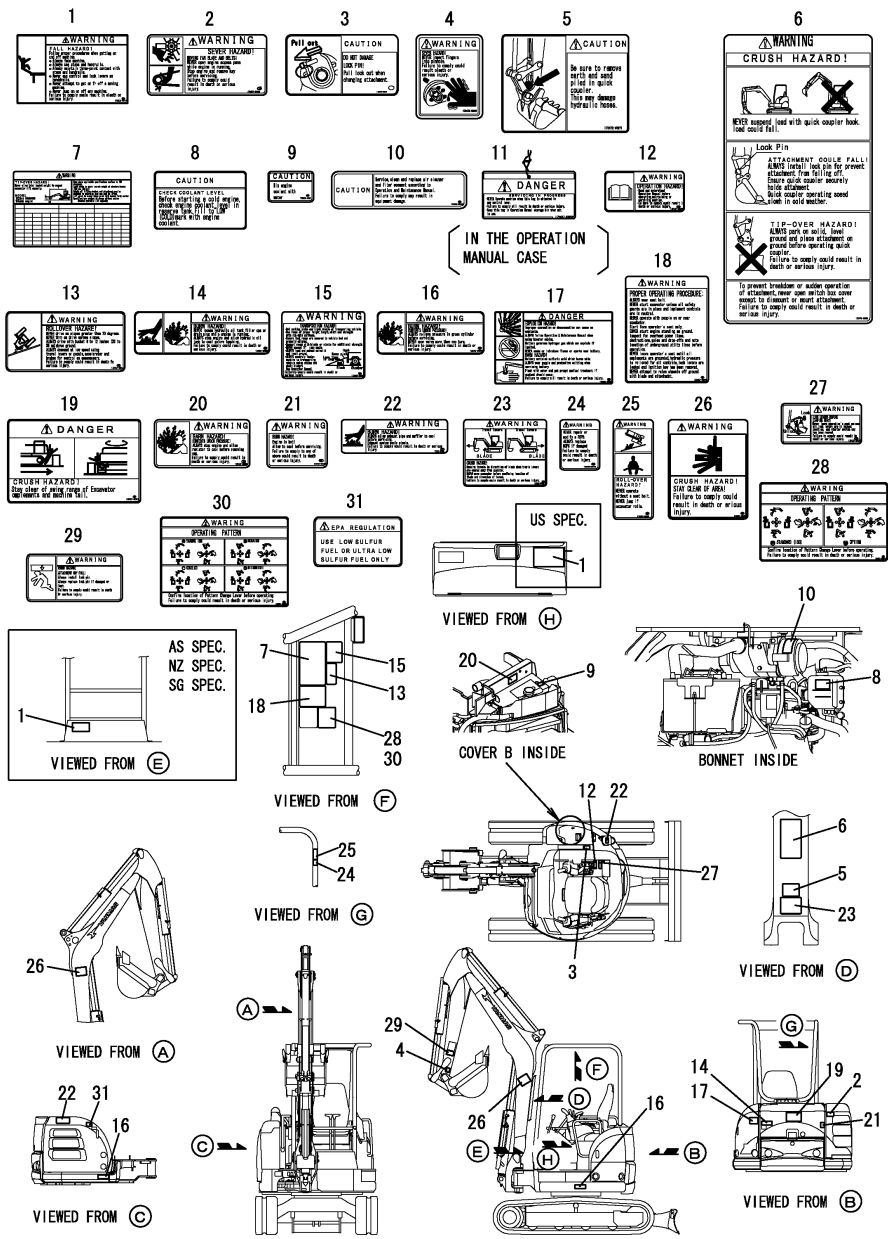
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172472-03141	LABEL, SUPPORT	1	1	1	1					
2	1	172A36-03411	LABEL, ENGINE ROOM	1	1	1	1					
3	1	172437-03551	LABEL, WINDOW US	1	1	1	1					
4	1	172472-03241	LABEL, PINUS	1	1	1	1					
5	1	172472-03261	LABEL, FINGER	1	1	1	1					
6	1	172472-03271	LABEL, SANDUS	1	1	1	1					
7	1	172472-03281	LABEL, WARNING HITCH	1	1	1	1					
8	1	172A44-03352	LABEL,LIFT Q US	1	1	1	1					
9	1	172A38-03201	LABEL, SUB TANK	1	1	1	1					
10	1	172A38-03211	LABEL, ANTI-FREEZING	1	1	1	1					
11	1	172125-03951	LABEL, AIR CLEANER	1	1	1	1					
12	1	172437-03252	TAG ASSY, CAUTION	1	1	1	1					
13	1	172437-03302	LABEL, MANUAL	1	1	1	1					
14	1	172437-03312	LABEL, SLOPE	1	1	1	1					
15	1	172437-03322	LABEL, RESEVOIR	1	1	1	1					
16	1	172437-03343	LABEL, TRANSPORT	1	1	1	1					
17	1	172437-03352	LABEL, CYLINDER	2	2	2	2					
18	1	172437-03361	LABEL, BATTERY	1	1	1	1					
19	1	172437-03372	LABEL, NEUTRAL	1	1	1	1					
20	1	172437-03381	LABEL, SWING AREA	1	1	1	1					
21	1	172437-03391	LABEL, RADIATOR	1	1	1	1					
22	1	172437-03402	LABEL, ENGINE COVER	1	1	1	1					
23	1	172437-03422	LABEL, MUFFLER	2	2	2	2					
24	1	172437-03432	LABEL, STEERING	1	1	1	1					
25	1	172437-03441	LABEL, ROPS	1	1	1	1					
26	1	172437-03451	LABEL, SEAT BELT	1	1	1	1					
27	1	172437-03461	LABEL, BOOM	2	2	2	2					
28	1	172437-03471	LABEL, LEVER LOCK	1	1	1	1					
29	1	172437-03601	LABEL, 2-WAY US	1	1	1	1					
30	1	172472-03330	LABEL, LOCK PIN	1	1	1	1					
31	1	172A47-03410	LABEL,4 WAY US					1			1	
32	1	114110-07760	LABEL, FUEL CAUTION	1	1	1	1					
32-1	1	114110-07761	LABEL, FUEL OIL CAUT	1	1	1	1				N	
				(A=M53499)	(B=M53499)	(C=M53499)	(D=M53499)					

Remarks  
 (1)SG spec.

Fig.4. SAFETY LABEL(CANOPY)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172472-03141	LABEL, SUPPORT	2	2	2	2					
2	1	172A36-03411	LABEL, ENGINE ROOM	1	1	1	1					
3	1	172472-03241	LABEL, PINUS	1	1	1	1					
4	1	172472-03261	LABEL, FINGER	1	1	1	1					
5	1	172472-03271	LABEL, SANDUS	1	1	1	1					
6	1	172472-03281	LABEL, WARNING HITCH	1	1	1	1					
7	1	172A44-03352	LABEL, LIFT Q US	1	1	1	1					
8	1	172A38-03201	LABEL, SUB TANK	1	1	1	1					
9	1	172A38-03211	LABEL, ANTI-FREEZING	1	1	1	1					
10	1	172125-03951	LABEL, AIR CLEANER	1	1	1	1					
11	1	172437-03252	TAG ASSY, CAUTION	1	1	1	1					
12	1	172437-03302	LABEL, MANUAL	1	1	1	1					
13	1	172437-03312	LABEL, SLOPE	1	1	1	1					
14	1	172437-03322	LABEL, RESEVOIR	1	1	1	1					
15	1	172437-03343	LABEL, TRANSPORT	1	1	1	1					
16	1	172437-03352	LABEL, CYLINDER	2	2	2	2					
17	1	172437-03361	LABEL, BATTERY	1	1	1	1					
18	1	172437-03372	LABEL, NEUTRAL	1	1	1	1					
19	1	172437-03381	LABEL, SWING AREA	1	1	1	1					
20	1	172437-03391	LABEL, RADIATOR	1	1	1	1					
21	1	172437-03402	LABEL, ENGINE COVER	1	1	1	1					
22	1	172437-03422	LABEL, MUFFLER	2	2	2	2					
23	1	172437-03432	LABEL, STEERING	1	1	1	1					
24	1	172437-03441	LABEL, ROPS	1	1	1	1					
25	1	172437-03451	LABEL, SEAT BELT	1	1	1	1					
26	1	172437-03461	LABEL, BOOM	2	2	2	2					
27	1	172437-03471	LABEL, LEVER LOCK	1	1	1	1					
28	1	172437-03601	LABEL, 2-WAY US	1	1	1	1					
29	1	172472-03330	LABEL, LOCK PIN	1	1	1	1					
30	1	172A47-03410	LABEL, 4 WAY US					1			1	
31	1	114110-07760	LABEL, FUEL CAUTION	1	1	1	1					
31-1	1	114110-07761	LABEL, FUEL OIL CAUT	1	1	1	1				N	
				(A=M53499)	(B=M53499)	(C=M53499)	(D=M53499)					

Remarks  
 (1)SG spec.

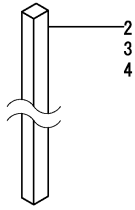
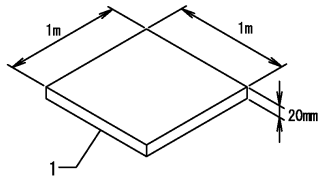


Fig.5. REPAIR PARTS

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172478-65750	SPONGE	1	1	1	1				
2	1	172478-68600	SEAL, DAM	1	1	1	1				1
3	1	172478-68610	SEAL, DAM	1	1	1	1				1
4	1	172478-68620	SEAL, DAM	1	1	1	1				1

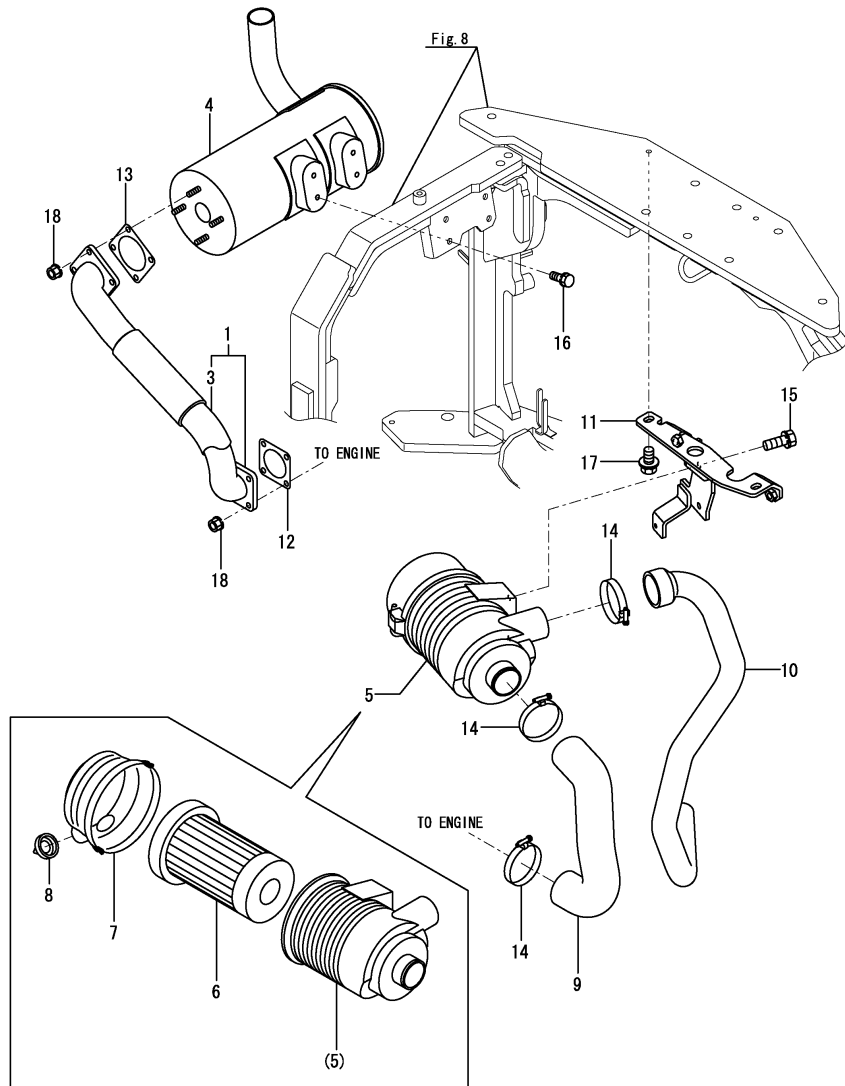


Remarks  
 (1) Spare parts.  
 L=Ref.No.2:1000mm, No.3:2000mm, No.4:3000mm.

Fig.6. MUFFLER & AIR CLEANER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A45-11301	TUBE ASSY, EXHAUST	1	1	1	1				
3	2	172A46-11390	TAPE, INSURATOR	3	3	3	3				
4	1	172A46-11302	MUFFLER ASSY	1	1	1	1				
4-1	1	172A77-11300	SILENCER ASSY	1	1	1	1				N
		(A=M53534)	(B=M53534)	(C=M53534)	(D=M53534)						
5	1	172A46-11500	CLEANER ASSY, AIR	1	1	1	1				1
6	2	129004-12520	ELEMENT	1	1	1	1				
6-1	2	119808-12520	ELEMENT	1	1	1	1				R
		(A=M53831)	(B=M53831)	(C=M53831)	(D=M53831)						
7	2	119866-12530	COVER ASSY	1	1	1	1				
8	2	119808-12540	VALVE, UNLOADER	1	1	1	1				
9	1	172A46-11510	HOSE, AIR CLEANER	1	1	1	1				
10	1	172A46-11520	HOSE, AIR CLEANER	1	1	1	1				
11	1	172A46-11550	BRACKET ASSY	1	1	1	1				
12	1	124701-11911	GASKET, SILENCER	1	1	1	1				
13	1	129400-13201	GASKET, SILENCER	1	1	1	1				
14	1	23000-070000	CLAMP, 70	3	3	3	3				
15	1	26013-080202	BOLT, M8X 20	2	2	2	2				
16	1	26013-080252	BOLT, M8X 25	4	4	4	4				
17	1	26014-100252	BOLT, M10X 25	2	2	2	2				
18	1	26051-080002	NUT, M8	8	8	8	8				
19A	1	172125-03951	LABEL, AIR CLEANER	1	1	1	1				2

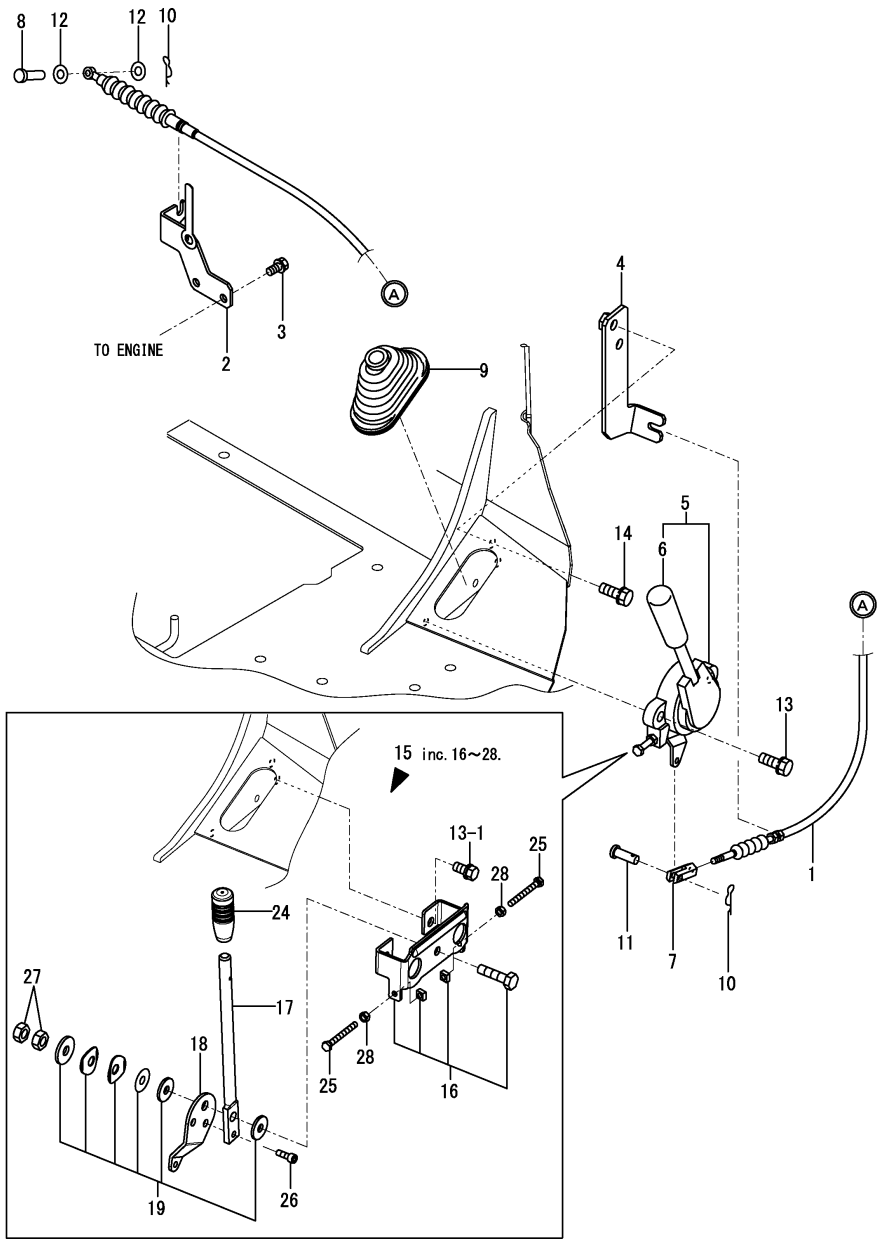
Remarks

- (1)Please use this part with following label at the same time.  
Ref.No.19A.
- (2)Label is not illustrated.

Fig.7. ACCELERATOR

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



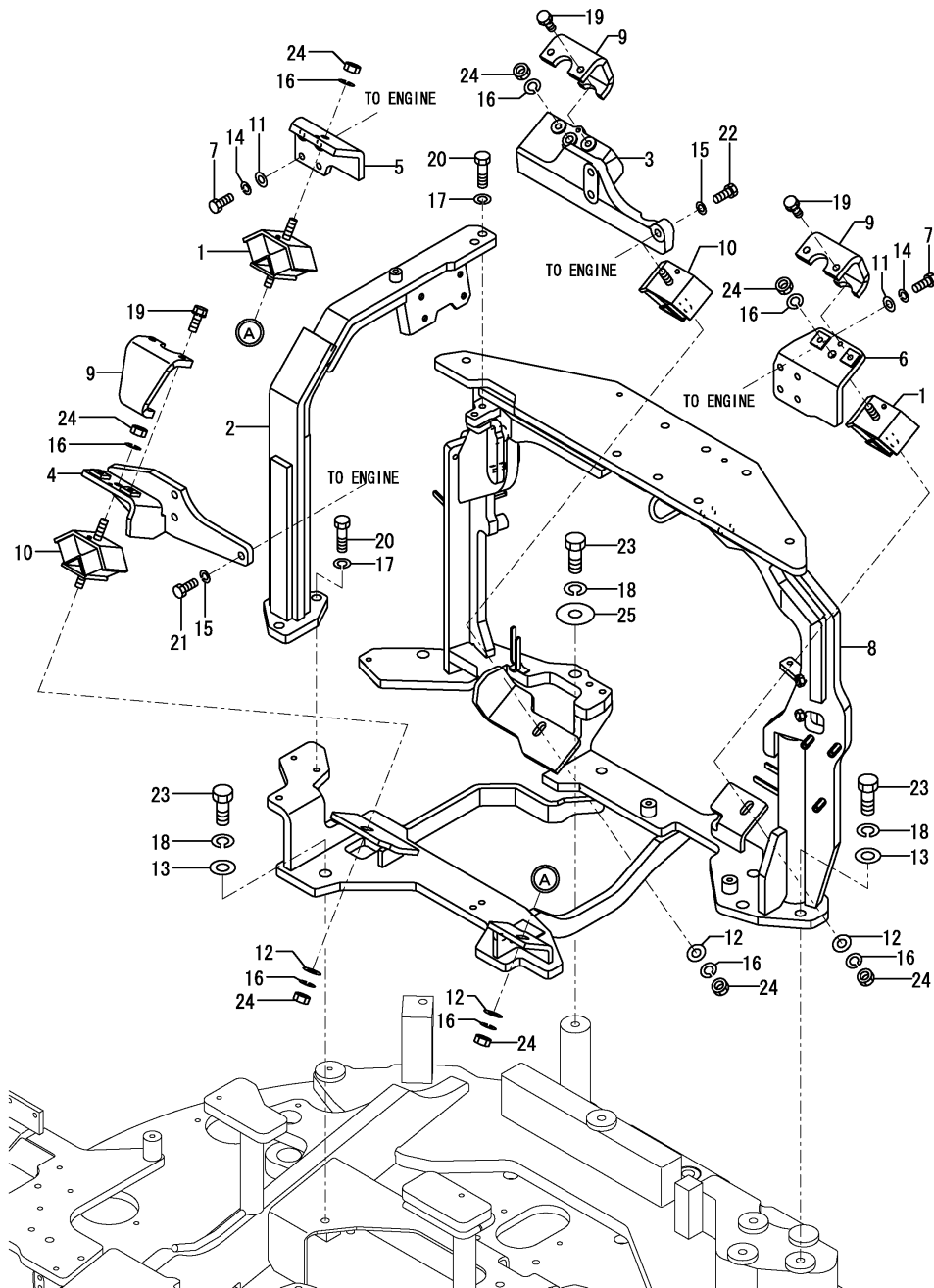
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-12101	CABLE, ACCELERATOR	1	1	1	1				
2	1	172A45-12150	BRACKET	1	1	1	1				
3	1	26013-080162	BOLT, SPRING M8X 16	2	2	2	2				
4	1	172A47-12110	BRACKET, CABLE	1	1	1	1				
5	1	172A47-12141	LEVER, ACCELERATOR	1	1	1	1			Z	1
(A=*2016.10.) (B=*2016.10.) (C=*2016.10.) (D=*2016.10.)											
6	2	172165-12140	GRIP	1	1	1	1				
6-1	2	172A79-12150	GRIP	1	1	1	1				N
(A=M53614) (B=M53614) (C=M53614) (D=M53614)											
7	1	172137-12270	JOINT, CABLE	1	1	1	1				
8	1	172113-12522	PIN, CABLE	1	1	1	1				
9	1	172141-41340	BOOT	1	1	1	1				
10	1	1C6281-52310	PIN, SNAP 6	2	2	2	2				
11	1	1A1040-56900	PIN, FLAT HEAD 6X17	1	1	1	1				
12	1	22137-060000	WASHER, 6	2	2	2	2				
13	1	26013-100252	BOLT, SPRING M10X 25	2	2	2	2				
13-1	1	26013-100202	BOLT, M10X 20	2	2	2	2				S
(A=*2016.10.) (B=*2016.10.) (C=*2016.10.) (D=*2016.10.)											
14	1	26013-100252	BOLT, SPRING M10X 25	2	2	2	2				
15	1	172A47-12142	LEVER ASSY, ACCEL.	1	1	1	1				W
(A=*2016.10.) (B=*2016.10.) (C=*2016.10.) (D=*2016.10.)											
16	2	172458-12150	BRACKET ASSY, ACCEL.	1	1	1	1				
17	2	172458-12170	LEVER, ACCEL	1	1	1	1				
18	2	172458-12180	PLATE	1	1	1	1				
19	2	172458-12200	SPRING SET	1	1	1	1				
24	2	172498-12250	GRIP, ACCELERATOR	1	1	1	1				
25	2	26117-060554	BOLT M 6X 55	2	2	2	2				
26	2	26450-060102	BOLT, M6X 10	1	1	1	1				
27	2	26757-100002	NUT, LOCK M10	2	2	2	2				
28	2	26857-060002	NUT, M6	2	2	2	2				

Remarks

(1)Interchangeable by simultaneous replacement with No.13-1 & 15.

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

Fig.8. ENGINE MOUNT

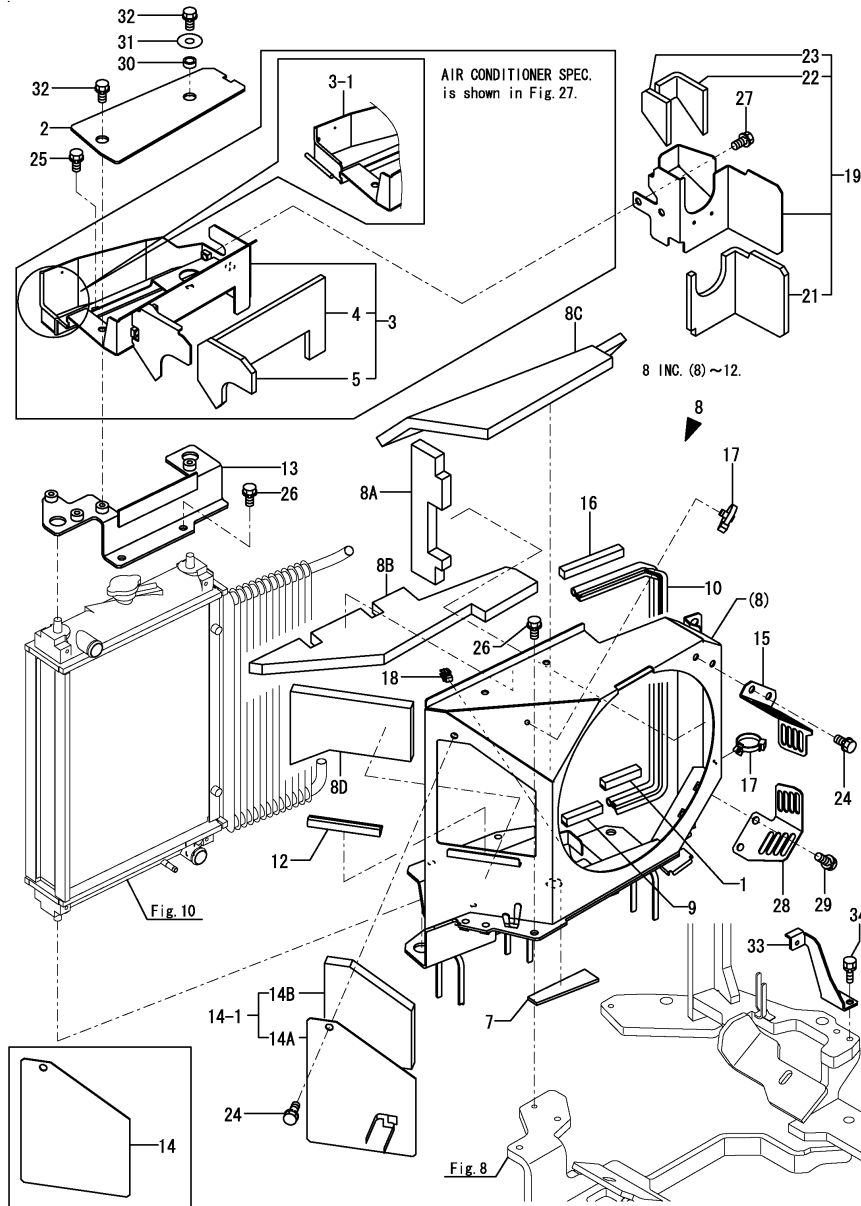


(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	196420-02310	ABSORBER, SHOCK 230	2	2	2	2				
2	1	172A46-11311	BRACKET ASSY	1	1	1	1				
3	1	172458-13100	MOUNT, ENGINE	1	1	1	1				
4	1	172A45-13110	MOUNT L(ENG)	1	1	1	1				
5	1	172175-13110	PLATE	1	1	1	1				
6	1	172490-13110	BRACKET	1	1	1	1				
6-1	1	172490-13111	BRACKET ASSY,EN BR	1	1	1	1			N	
		(A=M53114)	(B=M53114)	(C=M53114)	(D=M53114)						
6-2	1	172490-13112	BRACKET ASSY,EN BR	1	1	1	1			R	
		(A=M53831)	(B=M53831)	(C=M53831)	(D=M53831)						
7	1	172162-13200	BOLT	8	8	8	8				
8	1	172A45-13213	MOUNT ASSY,ENG	1	1	1	1				
8-1	1	172A45-13214	MOUNT ASSY,ENG	1	1	1	1			N	
		(A=M53094)	(B=M53094)	(C=M53094)	(D=M53094)						
8-2	1	172A45-13215	MOUNT ASSY,ENG	1	1	1	1			N	
		(A=M53114)	(B=M53114)	(C=M53114)	(D=M53114)						
9	1	172124-13230-3	STOPPER, ENGINE	3	3	3	3				
10	1	172168-13250	ABSORBER, SHOCK	2	2	2	2				
11	1	172137-46042	SEAT, SPRING	8	8	8	8				
12	1	22137-120000	WASHER, 12	4	4	4	4				
13	1	22137-160000	WASHER, 16	7	7	7	7				
14	1	22217-100000	WASHER, SPRING 10	8	8	8	8				
15	1	22217-120000	WASHER, SPRING 12	6	6	6	6				
16	1	22217-120000	WASHER, SPRING 12	8	8	8	8				
17	1	22217-120000	WASHER, SPRING 12	4	4	4	4				
18	1	22217-160000	WASHER, SPRING 16	8	8	8	8				
19	1	26013-100252	BOLT, M10X 25	6	6	6	6				
20	1	26076-120352	BOLT, 10.912X 35	4	4	4	4				
21	1	26076-120352	BOLT, 10.912X 35	3	3	3	3				
22	1	26076-120402	BOLT, 10.912X 40	3	3	3	3				
23	1	26076-160402	BOLT, 10.916X 40	8	8	8	8				
23-1	1	26076-160452	BOLT, 10.916X 45	8	8	8	8			N	
		(A=M53001)	(B=M53001)	(C=M53001)	(D=M53001)						
24	1	26716-120002	NUT, M12	8	8	8	8				
25	1	22157-160000	WASHER, 16	1	1	1	1				

Fig.9. RADIATOR SHURAUD



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-13060	SEAL, SHURAUD	1	1	1	1				
2	1	172A46-13090	MAT	1	1	1	1				
3	1	172A46-13120	BRACKET ASSY, DUCT	1	1	1	1				1
3-1	1	172A46-13121 (A=M53094)	BRACKET ASSY, DUCT (B=M53094) (C=M53094) (D=M53094)	1	1	1	1				S 1
4	2	172A46-13130	WOOL, GLASS	1	1	1	1				
5	2	172A46-13140	WOOL, GLASS	1	1	1	1				
7	1	172A46-13530	SEAL, SHURAUD	1	1	1	1				
8	1	172A45-13541	SHROUD ASSY	1	1	1	1				
8-1	1	172A46-13542 (A=M53001)	SHROUD ASSY (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				N
8-2	1	172A45-13542 (A=M53005)	SHROUD ASSY (B=M53005) (C=M53005) (D=M53005)	1	1	1	1				N
8A	2	172A77-13610 (A=M53001)	SPONGE (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				W
8B	2	172A77-13620 (A=M53001)	SPONGE (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				W
8C	2	172A77-13630 (A=M53001)	SPONGE (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				W
8D	2	172A77-13640 (A=M53001)	SPONGE (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				W
9	2	172A46-13060	SEAL, SHURAUD	1	1	1	1				
10	2	172A46-13070	RUBBER, SEAL	1	1	1	1				
12	2	172458-61500	RUBBER, SEAL	1	1	1	1				
13	1	172A46-13660	BRACKET ASSY	1	1	1	1				
14	1	172A46-13030	COVER ASSY, SHROUD	1	1	1	1				
14-1	1	172A77-13650 (A=M53001)	COVER ASSY, SHROUD (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				N
14A	2	172A46-13030 (A=M53001)	COVER ASSY, SHROUD (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				W
14B	2	172A77-13660 (A=M53001)	SPONGE (B=M53001) (C=M53001) (D=M53001)	1	1	1	1				W
15	1	172A46-13900	GUARD, FAN	1	1	1	1				
16	1	172446-49280	SEAL	1	1	1	1				
17	1	194680-51670	BAND, CLIP	2	2	2	2				
18	1	1A7400-61250	HOLDER, ROD 8	1	1	1	1				
19	1	172A46-61340	COVER ASSY, SILENCER	1	1	1	1				
21	2	172A46-61250	WOOL, GLASS	1	1	1	1				
22	2	172A46-61260	WOOL, GLASS	1	1	1	1				
23	2	172A46-61270	WOOL, GLASS	1	1	1	1				
24	1	26013-100162	BOLT, M10X 16	3	3	3	3				
25	1	26013-100202	BOLT, M10X 20	2	2	2	2				
26	1	26013-100202	BOLT, M10X 20	3	3	3	3				
27	1	26013-100202	BOLT, M10X 20	3	3	3	3				
28	1	172A46-13910	GUARD, FAN	1	1	1	1				
29	1	26013-100162	BOLT, M10X 16	2	2	2	2				
30	1	172155-83170	SPACER	1	1	1	1				
31	1	22157-100000	WASHER, 10	1	1	1	1				
32	1	26013-100252	BOLT, M10X 25	2	2	2	2				
33	1	172A77-14290 (A=M53094)	PLATE, HOSE GUIDE (B=M53094) (C=M53094) (D=M53094)	1	1	1	1				W

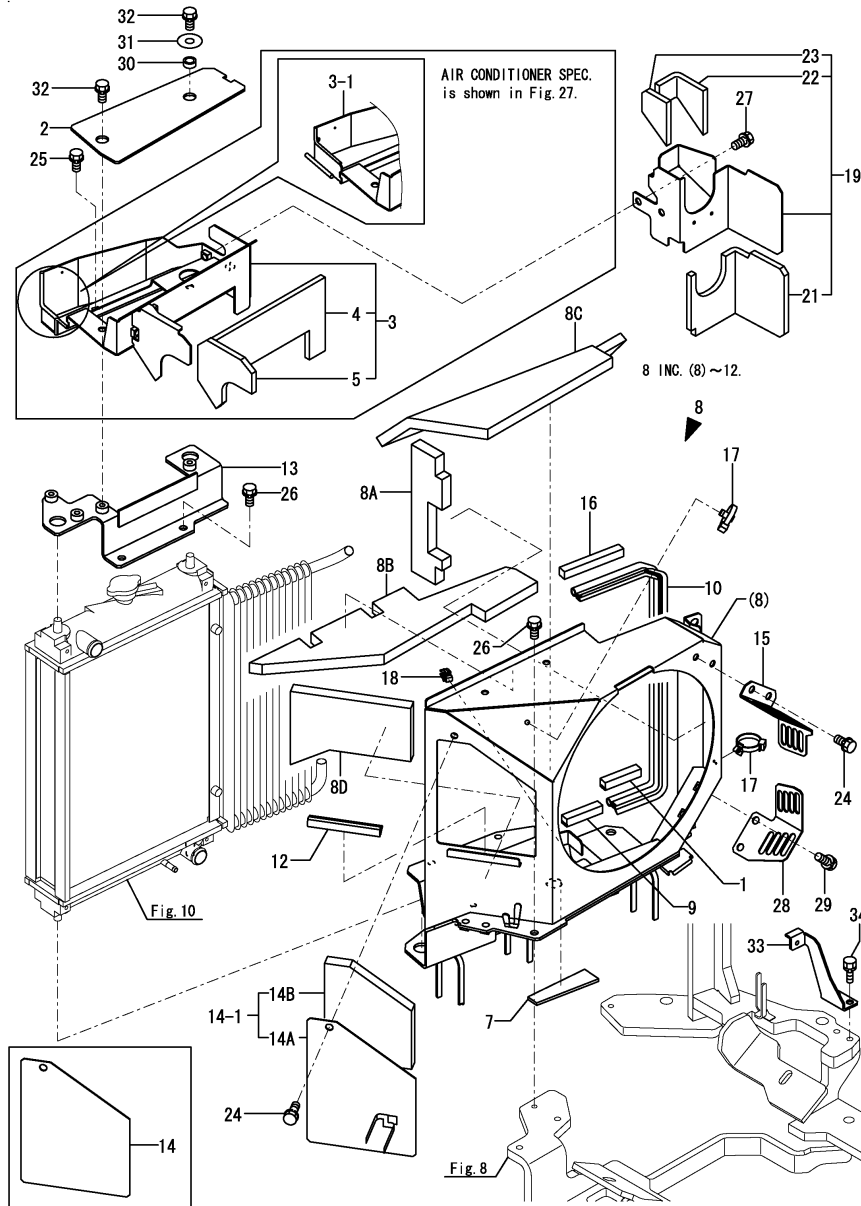
Remarks

- (1) Please use this part with following label at the same time. Ref.No.34A,34B.
- (2) Label is not illustrated.

Fig.9. RADIATOR SHURAUD

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
33-1	1	172A77-14291	PLATE,HOSE GUIDE	1	1	1	1			N	
		(A=M53156) (B=M53156) (C=M53156) (D=M53156)									
34	1	26013-100252	BOLT, M10X 25	2	2	2	2			W	
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
34A	1	172A38-03211	LABEL, ANTI-FREEZING	1	1	1	1			2	
34B	1	172437-03391	LABEL, RADIATOR	1	1	1	1			2	

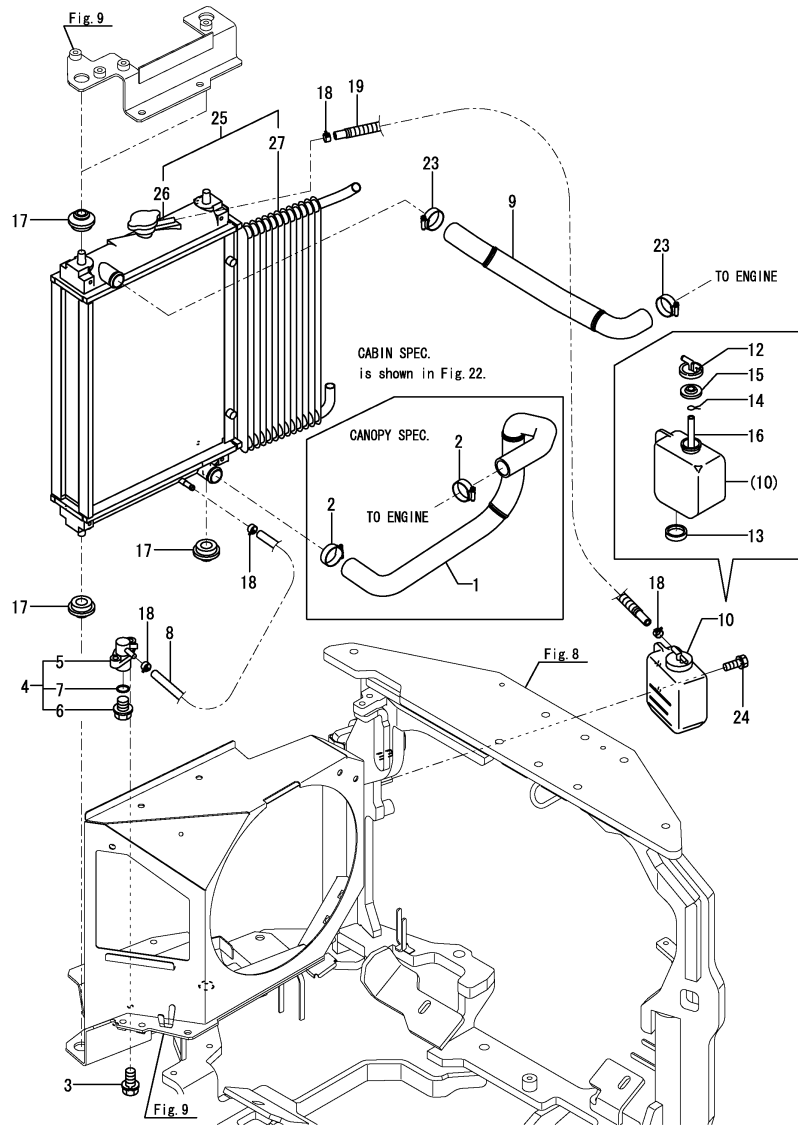
Remarks

- (1)Please use this part with following label at the same time. Ref.No.34A,34B.
- (2)Label is not illustrated.

Fig.10. RADIATOR & SUB-TANK

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A45-13500	PIPE, WATER	1	1	1	1				4
1-1	1	172A45-13501	PIPE, WATER	1	1	1	1				N 4
		(A=M/#53185) (B=M/#53185) (C=M/#53185) (D=M/#53185)									
2	1	23001-041000	CLAMP, HOSE 41	2	2	2	2				4
3	1	26013-080202	BOLT, M8X 20	2	2	2	2				
4	1	172444-13210	COCK ASSY, 2-WAY	1	1	1	1				
5	2	172444-13220	BODY	1	1	1	1				
6	2	121250-49121	PLUG, DRAIN	1	1	1	1				
7	2	24311-000160	O-RING, 1AP16.0	1	1	1	1				
8	1	172124-13411	HOSE	1	1	1	1				
9	1	172A45-13510	PIPE, WATER	1	1	1	1				
9-1	1	172A45-13511	HOSE,CW-T B	1	1	1	1				N
		(A=M/#53185) (B=M/#53185) (C=M/#53185) (D=M/#53185)									
10	1	121468-44510	TANK ASSY	1	1	1	1				2
10-1	1	121468-44520	TANK ASSY, SUB	1	1	1	1				N 2
		(A=M53060) (B=M53060) (C=M53060) (D=M53060)									
12	2	121450-44531	CAP	1	1	1	1				
13	2	121468-44540	PLUG	1	1	1	1				Z
		(A=M53060) (B=M53060) (C=M53060) (D=M53060)									
14	2	124450-44560	RETAINER	1	1	1	1				
15	2	121470-44581	GASKET	1	1	1	1				
16	2	23065-070130	PIPE, 7X 130	1	1	1	1				
17	1	184015-44680	ABSORBER, SHOCK	4	4	4	4				
18	1	124766-59050	CLIP, HOSE 12	4	4	4	4				
19	1	184014-59450	PIPE ASSY, FUEL	1	1	1	1				
23	1	23001-041000	CLAMP, HOSE 41	2	2	2	2				
24	1	26013-060202	BOLT, M6X 20	2	2	2	2				
25	1	172A46-13150	RADIATOR ASSY	1	1	1	1				1
26	2	172A46-13160	RADIATOR	1	1	1	1				
27	2	172A46-13200	COOLER, OIL	1	1	1	1				
28A	1	172462-03320	LABEL, RADIATOR	1	1	1	1				3
29A	1	172A38-03201	LABEL, SUB TANK	1	1	1	1				3

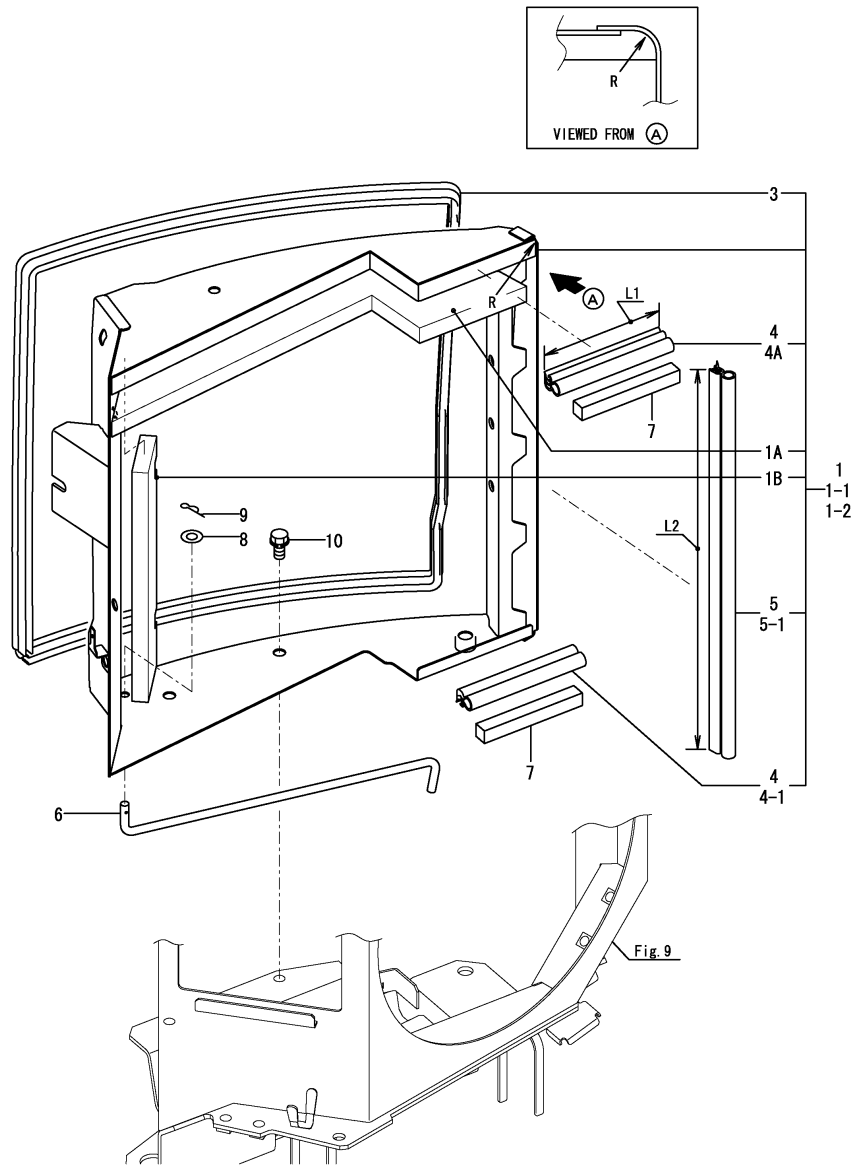
Remarks

- (1) Please use this part with following label at the same time.  
Ref.No.28A.
- (2) Please use this part with following label at the same time.  
Ref.No.29A.
- (3) Label is not illustrated.
- (4) Canopy spec.

Fig.11. DUCT

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-13000	DUCT ASSY	1	1	1	1				
1-1	1	172A46-13001	DUCT ASSY	1	1	1	1				N
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
1-2	1	172A46-13002	DUCT ASSY	1	1	1	1				S 1
		(A=M/#53227) (B=M/#53227) (C=M/#53227) (D=M/#53227)									
1A	2	172A77-13710	SPONGE	1	1	1	1				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
1B	2	172A77-13720	SPONGE	1	1	1	1				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
3	2	172A46-13780	SEAL	1	1	1	1				
4	2	172A46-13800	RUBBER, SEAL	2	2	2	2				
4-1	2	172A46-13800	RUBBER, SEAL	1	1	1	1				K
		(A=M/#53227) (B=M/#53227) (C=M/#53227) (D=M/#53227)									
4A	2	172446-13530	SEAL, RADIATOR	1	1	1	1				W 2
		(A=M/#53227) (B=M/#53227) (C=M/#53227) (D=M/#53227)									
5	2	172A46-13810	RUBBER, SEAL	1	1	1	1				
5-1	2	172455-13620	RUBBER, SEAL	1	1	1	1				S 3
		(A=M/#53227) (B=M/#53227) (C=M/#53227) (D=M/#53227)									
6	1	172A47-13780	HOOK	1	1	1	1				
7	1	172446-49280	SEAL	2	2	2	2				
8	1	22137-080000	WASHER, 8	1	1	1	1				
9	1	22372-080000	PIN, SNAP 8	1	1	1	1				
10	1	26013-100202	BOLT, M10X 20	2	2	2	2				

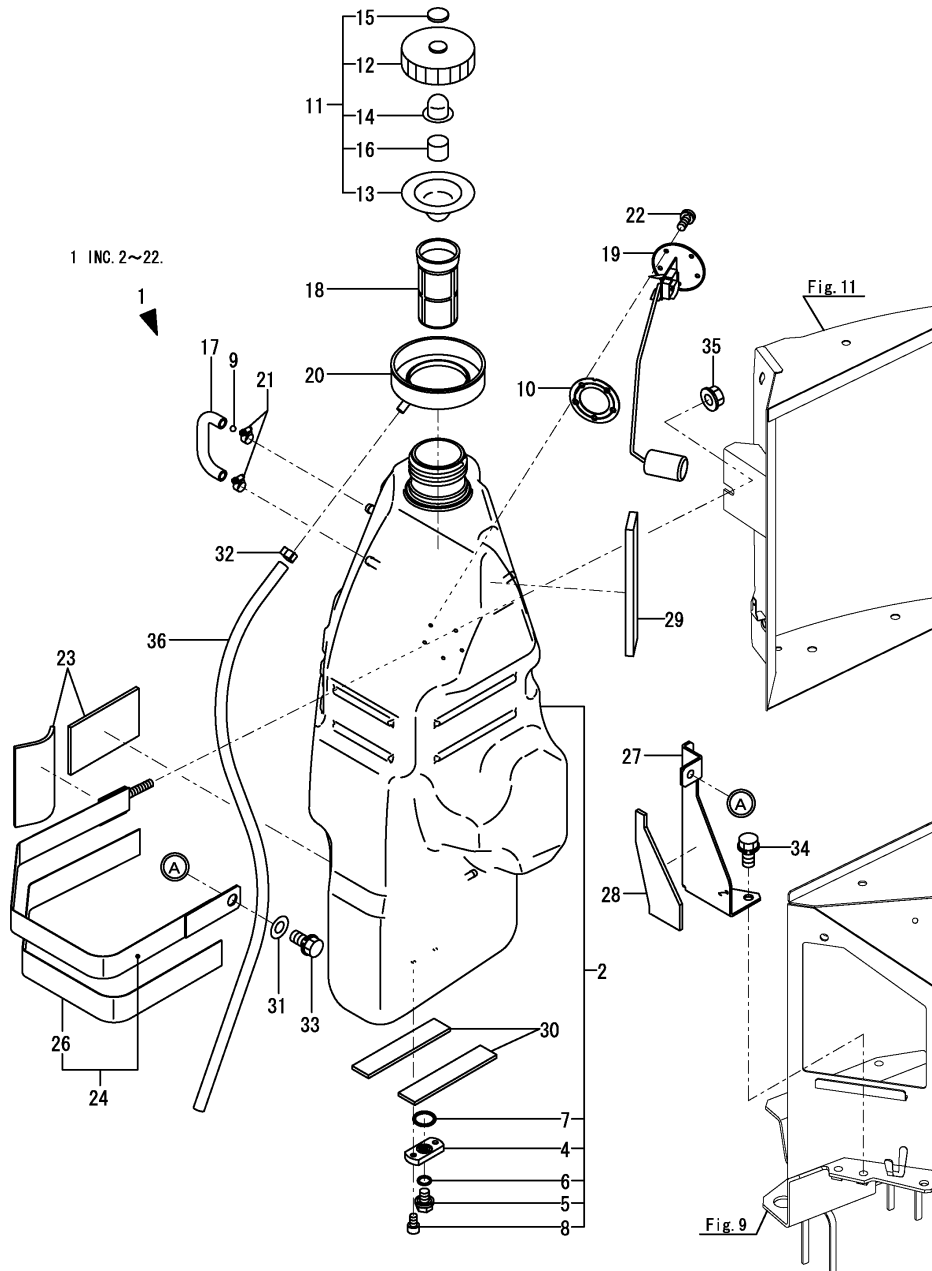
Remarks  
 (1)R=Ref.No.1-1:2mm, No.1-2:30mm.  
 (2)L1=Ref.No.4:135mm, No.4A:125mm.  
 (3)L2=Ref.No.5:455mm, No.5-1:480mm.



Fig.12. FUEL TANK

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=

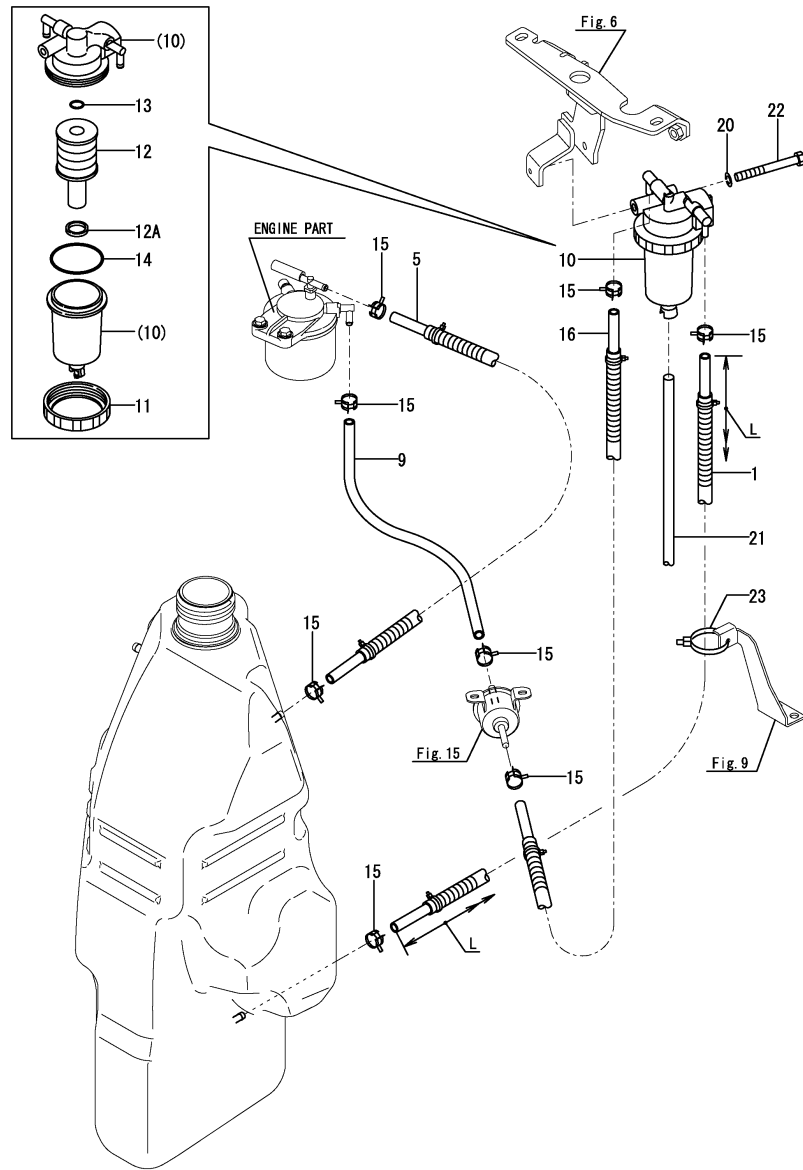


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A77-14100	TANK ASSY, FUEL	1	1	1	1				
2	2	172A46-14110	TANK ASSY, FUEL	1	1	1	1				
4	3	172447-14310	BLOCK, DRAIN	1	1	1	1				
5	3	23491-080002	PLUG, 8	1	1	1	1				
6	3	24311-000090	O-RING, 1AP9.0	1	1	1	1				
7	3	24311-000160	O-RING, 1AP16.0	1	1	1	1				
7-1	3	172A46-14550	PACKING	1	1	1	1				N
		(A=*2016.01.) (B=*2016.01.) (C=*2016.01.) (D=*2016.01.)									
8	3	26450-060102	BOLT, M6X 10	2	2	2	2				
9	2	172447-14160	FLOAT	1	1	1	1				
10	2	172162-14200	GASKET	1	1	1	1				
11	2	172444-14200	CAP, FUEL	1	1	1	1				
12	3	172444-14450	CAP	1	1	1	1				
13	3	172444-14460	PACKING, RUBBER	1	1	1	1				
14	3	172444-14470	PACKING, RUBBER	1	1	1	1				
15	3	172444-14480	WASHER	1	1	1	1				
16	3	172444-14490	SPONGE	1	1	1	1				
17	2	172458-14203	HOSE, FUEL GAUGE	1	1	1	1				
18	2	172183-14250	FILTER, FUEL	1	1	1	1				
19	2	172A77-14220	GAUGE, FUEL	1	1	1	1				
20	2	172458-14370	SUMP, FUEL	1	1	1	1				
21	2	23000-013000	CLAMP, 13	2	2	2	2				
22	2	26022-050122	SCREW, M5X12	5	5	5	5				
23	1	172444-14130	PLATE, RUBBER	2	2	2	2				
24	1	172A46-14150	CLAMP ASSY, FUEL	1	1	1	1				
26	2	172A46-14180	RUBBER, CLAMP	1	1	1	1				
27	1	172A46-14190	STAY, CLAMP	1	1	1	1				
28	1	172A46-14240	PLATE, RUBBER	1	1	1	1				
29	1	172A46-14250	PLATE, RUBBER	1	1	1	1				
30	1	172458-14380	PLATE, RUBBER	2	2	2	2				
31	1	22137-100000	WASHER, 10	1	1	1	1				
32	1	23080-013000	CLAMP, 13	1	1	1	1				
33	1	26013-100202	BOLT, SPRING M10X 20	1	1	1	1				
34	1	26013-100202	BOLT, SPRING M10X 20	2	2	2	2				
35	1	26367-100002	NUT, M10	2	2	2	2				
36	1	172A47-14520	HOSE	1	1	1	1				

Fig.13. FUEL LINE

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



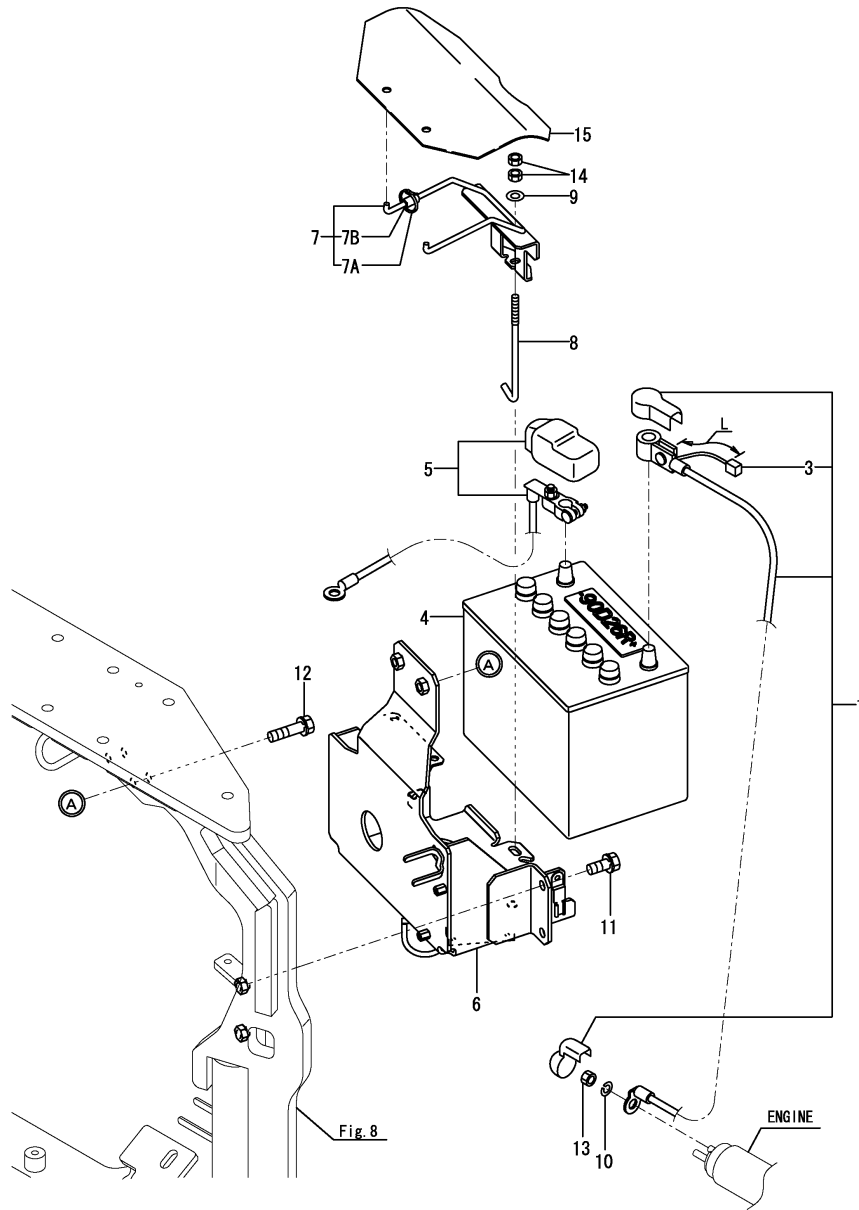
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-14230	HOSE, FUEL	1	1	1	1				
1-1	1	172A46-14231	HOSE	1	1	1	1			S	3
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
5	1	172A46-14600	HOSE ASSY, FUEL	1	1	1	1				
5-1	1	172A46-14601	HOSE ASSY, FUEL	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
9	1	172137-14610	PIPE, FUEL	1	1	1	1				
10	1	184016-55700	SEPARATOR ASSY,WATER	1	1	1	1				1
10-1	1	184016-55701	SEPARATOR ASSY	1	1	1	1			N	1
		(A=M53439) (B=M53439) (C=M53439) (D=M53439)									
11	2	129100-55690	RING, RETAINING	1	1	1	1				
12	2	119802-55710	ELEMENT	1	1	1	1				
12A	2	184016-55710	FLOAT	1	1	1	1				W
		(A=M53626) (B=M53626) (C=M53626) (D=M53626)									
13	2	24311-000160	O-RING, 1AP16.0	1	1	1	1				
14	2	24321-000650	O-RING, 1AG65.0	1	1	1	1				
15	1	124766-59050	CLIP, HOSE 12	8	8	8	8				
16	1	172A46-14650	HOSE ASSY, FUEL	1	1	1	1				
20	1	22217-080000	WASHER, SPRING 8	1	1	1	1				
21	1	23061-050300	PIPE, 5X 300	1	1	1	1				
22	1	26116-080702	BOLT, M8X 70 PLATED	1	1	1	1				
23	1	194680-51670	BAND, CLIP	1	1	1	1				W
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
24A	1	172A07-03160	LABEL	1	1	1	1				2

Remarks  
 (1) Please use this part with following label at the same time.  
 Ref.No.24A.  
 (2) Label is not illustrated.  
 (3) L=Ref.No.1:1470mm, No.1-1:1550mm.

Fig.14. BATTERY

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-16100	CORD ASSY, BATTERY	1	1	1	1				
1-1	1	172A46-16101	CORD ASSY, BATTERY	1	1	1	1			S	1
		(A=M/#53276) (B=M/#53276) (C=M/#53276) (D=M/#53276)									
3	2	172458-16140	HARNES, WIRE	1	1	1	1				
3-1	2	172A85-16140	HARNES C	1	1	1	1			S	1
		(A=M/#53276) (B=M/#53276) (C=M/#53276) (D=M/#53276)									
4	1	172653-16100	BATTERY	1	1	1	1				
5	1	172A46-16110	CORD ASSY, BATTERY	1	1	1	1				
5-1	1	172A46-16111	CORD, BATTERY	1	1	1	1				N
		(A=M/#53276) (B=M/#53276) (C=M/#53276) (D=M/#53276)									
6	1	172A46-16260	MOUNT ASSY, BATTERY	1	1	1	1				
6-1	1	172A46-16261	MOUNT ASSY, BATTERY	1	1	1	1				N
		(A=M/#53276) (B=M/#53276) (C=M/#53276) (D=M/#53276)									
7	1	172A46-16310	CLAMP ASSY, BATTERY	1	1	1	1				
7-1	1	172A46-16250	CLAMP ASSY, BATTERY	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
7A	2	172126-11510	BAND	1	1	1	1				W
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
7B	2	172A46-16360	HOSE, CLAMP	1	1	1	1				W
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
8	1	172A46-16340	ROD, BATTERY CLAMP	1	1	1	1				
9	1	22137-080000	WASHER, 8	1	1	1	1				
10	1	22217-080000	WASHER, SPRING 8	1	1	1	1				
11	1	26013-100202	BOLT, M10X 20	2	2	2	2				
12	1	26013-100352	BOLT, M10X 35	2	2	2	2				
13	1	26716-080002	NUT, M8	1	1	1	1				
14	1	26716-080002	NUT, M8	2	2	2	2				
15	1	172A47-16150	COVER, BATTERY	1	1	1	1				

Remarks

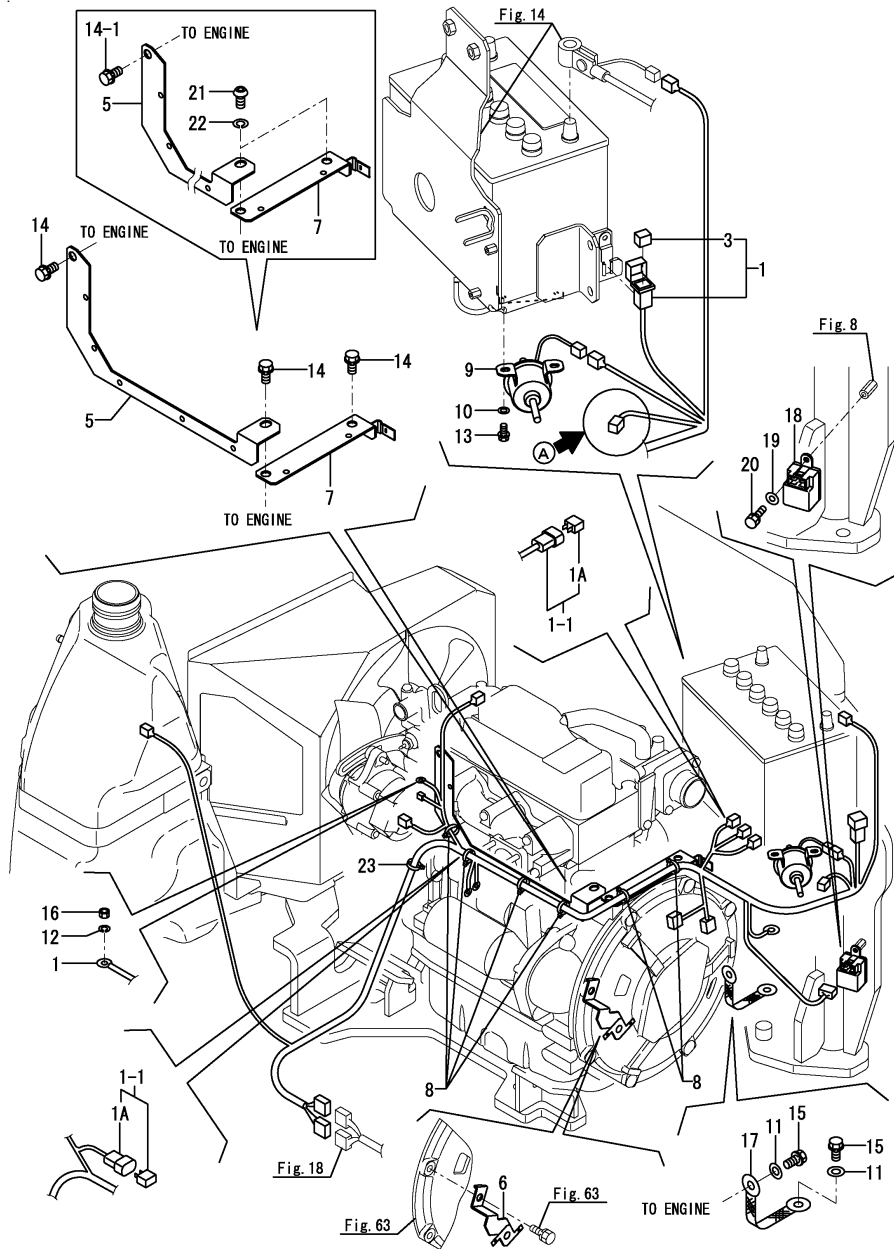
(1)L=Ref.No.3:140mm, No.3-1:330mm.

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

Fig.15. ELECTRIC PART(AROUND ENGINE)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A85-16500	HARNESS ASSY,A	1	1	1	1				
1-1	1	172A85-16501	HARNESS ASSY,A	1	1	1	1			S	1
		(A=M/#53276) (B=M/#53276) (C=M/#53276) (D=M/#53276)									
1A	2	1A7130-51130	DIODE, 1.5A	2	2	2	2				W
		(A=M53494) (B=M53494) (C=M53494) (D=M53494)									
3	2	172458-16550	FUSE, SLOWBLOW	1	1	1	1				
5	1	172A45-16610	SUPPORT, HARNESS	1	1	1	1				
6	1	172A45-16740	SUPPORT ASSY	1	1	1	1				
7	1	172A45-16760	SUPPORT ASSY	1	1	1	1				
8	1	194680-51670	BAND, CLIP	9	9	9	9				
8-1	1	194680-51670	BAND, CLIP	10	10	10	10				K
		(A=M53168) (B=M53168) (C=M53168) (D=M53168)									
9	1	129612-52100	PUMP ASSY, FUEL FEED	1	1	1	1				
10	1	22137-060000	WASHER, 6	2	2	2	2				
11	1	22137-100000	WASHER, 10	2	2	2	2				
12	1	22217-060000	WASHER, SPRING 6	1	1	1	1				
13	1	26013-060162	BOLT, M6X 16	2	2	2	2				
14	1	26013-100162	BOLT, M10X 16	3	3	3	3				
14-1	1	26013-100162	BOLT, M10X 16	1	1	1	1				K
		(A=M53425) (B=M53425) (C=M53425) (D=M53425)									
15	1	26013-100202	BOLT, M10X 20	2	2	2	2				
16	1	26716-060002	NUT, M6	1	1	1	1				
17	1	933171-15801	CORD, ENGINE EARTH	1	1	1	1				
18	1	124970-77920	TIMER	1	1	1	1				
19	1	22217-060000	WASHER, SPRING 6	1	1	1	1				
20	1	26013-060162	BOLT, M6X 16	1	1	1	1				
21	1	172455-61720	BOLT	2	2	2	2				W
		(A=M53425) (B=M53425) (C=M53425) (D=M53425)									
22	1	22217-100000	WASHER, SPRING 10	2	2	2	2				W
		(A=M53425) (B=M53425) (C=M53425) (D=M53425)									
23	1	194202-56460	BAND, 200	1	1	1	1				W
		(A=M53307) (B=M53307) (C=M53307) (D=M53307)									

Remarks

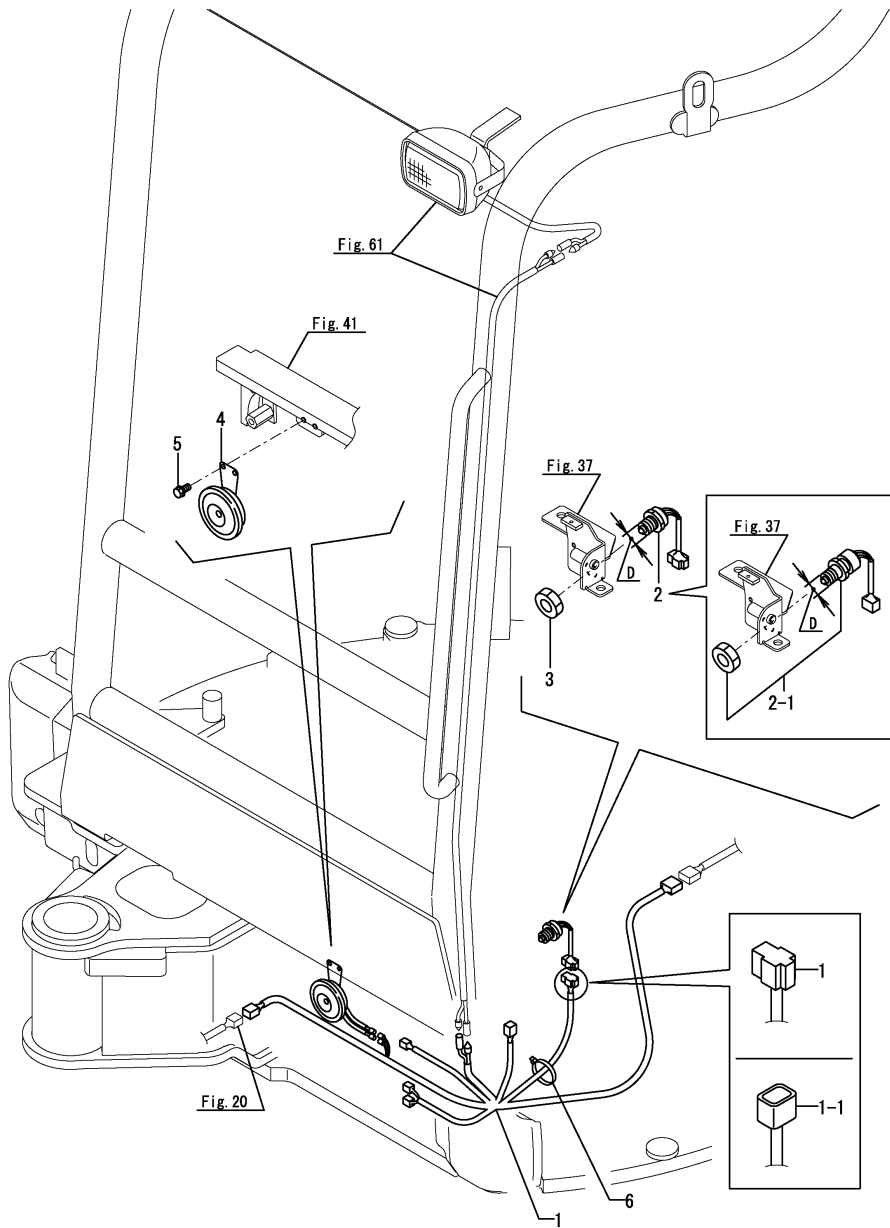
(1)A=Ref.No.1:normal type, No.1-1:waterproof type.

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

Fig.16. ELECTRIC PART(AROUND FRAME)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-16540	HARNESS ASSY, WIRE	1	1	1	1				
1-1	1	172A46-16541	HARNESS C	1	1	1	1				S
		(A=M53479) (B=M53479)	(C=M53479) (D=M53479)								
2	1	194464-52190	SWITCH, SAFETY START	1	1	1	1				1
2-1	1	1D4103-18300	SWITCH, PUSH	1	1	1	1				S 1
		(A=M53479) (B=M53479)	(C=M53479) (D=M53479)								
3	1	26776-180002	NUT, LOCK M18	1	1	1	1				Z
		(A=M53479) (B=M53479)	(C=M53479) (D=M53479)								
4	1	194151-57100	HORN	1	1	1	1				
5	1	26013-060122	BOLT, M6X 12	2	2	2	2				
6	1	194202-56460	BAND, 200	1	1	1	1				W
		(A=M53479) (B=M53479)	(C=M53479) (D=M53479)								

Remarks  
 (1)D=Ref.No.2:M18 screw, No.2-1:M20 screw.

Fig.17. ELECTRIC PART(STARTING SWITCH)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-17100	SWITCH ASSY, STARTER	1	1	1	1				
1-1	1	172187-17101	SWITCH ASSY, STARTER	1	1	1	1				N
		(A=M53831) (B=M53831) (C=M53831) (D=M53831)									
1A	2	172A47-17210	CYLINDER ASSY, KEY	1	1	1	1				W
		(A=M53114) (B=M53114) (C=M53114) (D=M53114)									
1A-1	2	172A47-17211	CYLINDER ASSY, KEY	1	1	1	1				N
		(A=M53831) (B=M53831) (C=M53831) (D=M53831)									
2	3	172187-17070	CORD ASSY	1	1	1	1				
3	3	172187-17080	COVER	3	3	3	3				
4	3	172187-17090	COVER	2	2	2	2				
6	2	933110-00301	KEY ASSY	1	1	1	1				

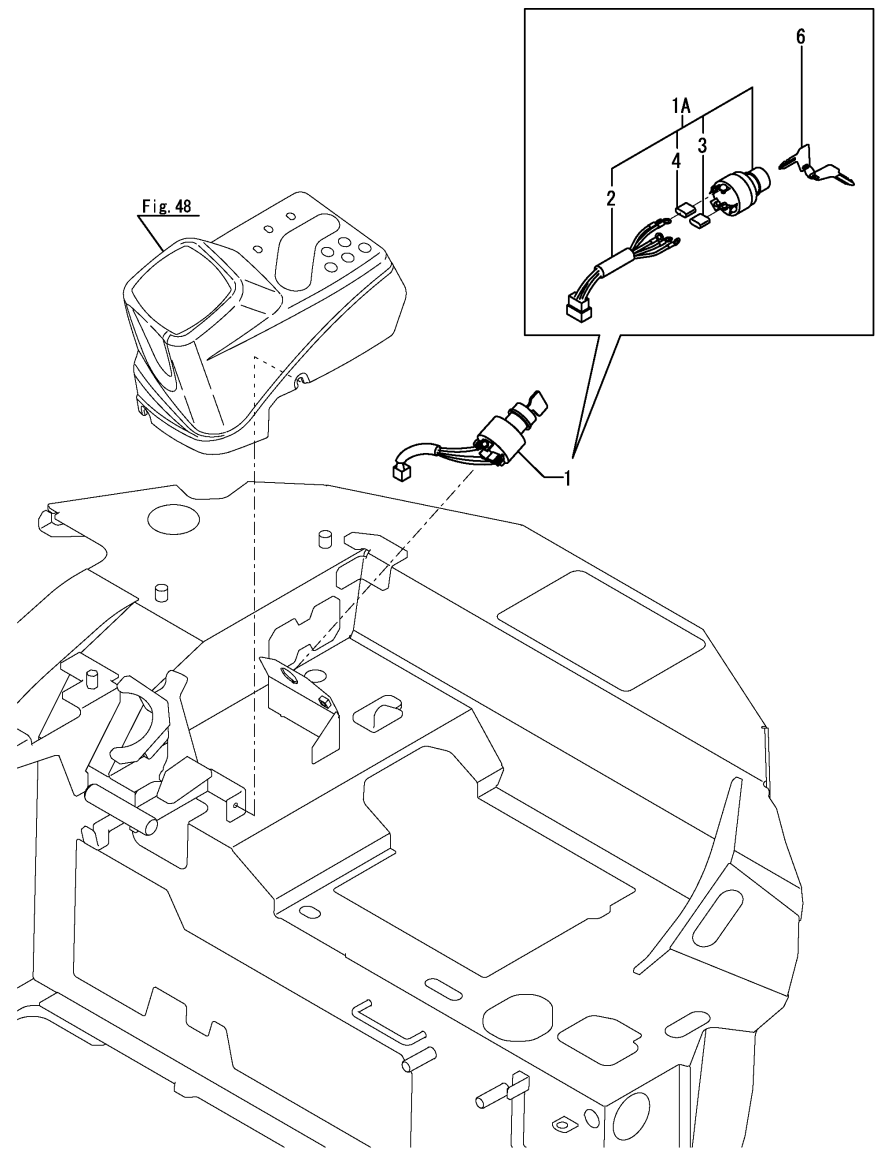
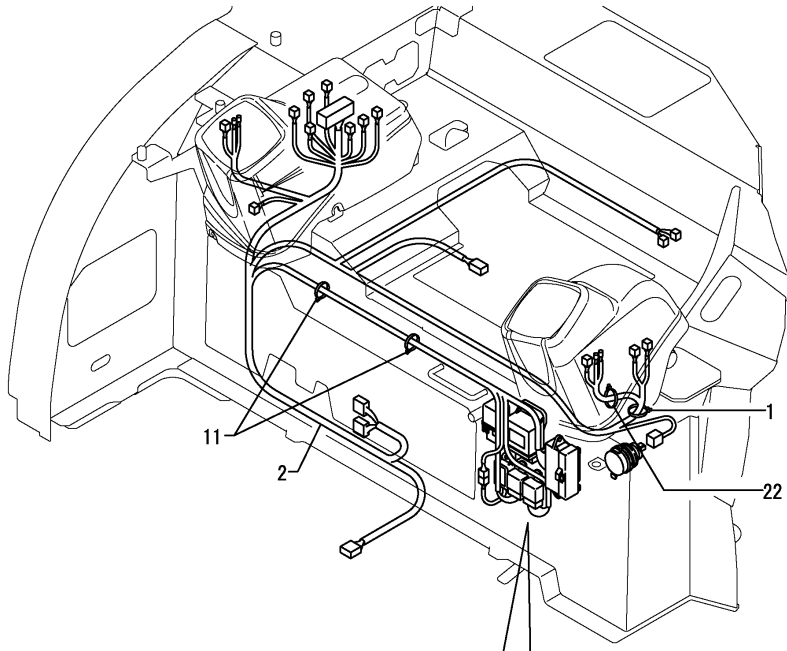


Fig.18. ELECTRIC PART(AROUND SEAT)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND	1	1	1	1				
2	1	172A77-16520	HARNESS ASSY, WIRE	1	1	1	1				
2-1	1	172A77-16540	HARNESS ASSY, WIRE	1	1	1	1				N
		(A=M53516) (B=M53516) (C=M53516) (D=M53516)									
7	2	29420-050000	FUSE, B 5A	2	2	2	2				
8	2	29420-150000	FUSE, B 15A	6	6	6	6				
9	2	29420-300000	FUSE, B 30A	2	2	2	2				
10	1	172A64-17250	SOCKET ASSY	1	1	1	1				
11	1	194680-51670	BAND, CLIP	2	2	2	2				
12	1	119247-77100	RELAY, SAFETY	2	2	2	2				
13	1	119802-77200	RELAY, SAFETY	1	1	1	1				
14	1	119650-77910	RELAY ASSY, GLOW	1	1	1	1				
14-1	1	119650-77911	RELAY ASSY, GLOW	1	1	1	1				N
		(A=M53552) (B=M53552) (C=M53552) (D=M53552)									
15	1	129211-77920	TIMER	1	1	1	1				
16	1	22137-060000	WASHER, 6	6	6	6	6				
17	1	26013-060122	BOLT, M6X 12	2	2	2	2				
18	1	26013-060122	BOLT, M6X 12	2	2	2	2				
19	1	26013-060162	BOLT, M6X 16	1	1	1	1				
20	1	26013-060202	BOLT, M6X 20	1	1	1	1				
21	1	26013-060202	BOLT, M6X 20	2	2	2	2				
22	1	194202-56460	BAND, 200	1	1	1	1				W
		(A=M53516) (B=M53516) (C=M53516) (D=M53516)									

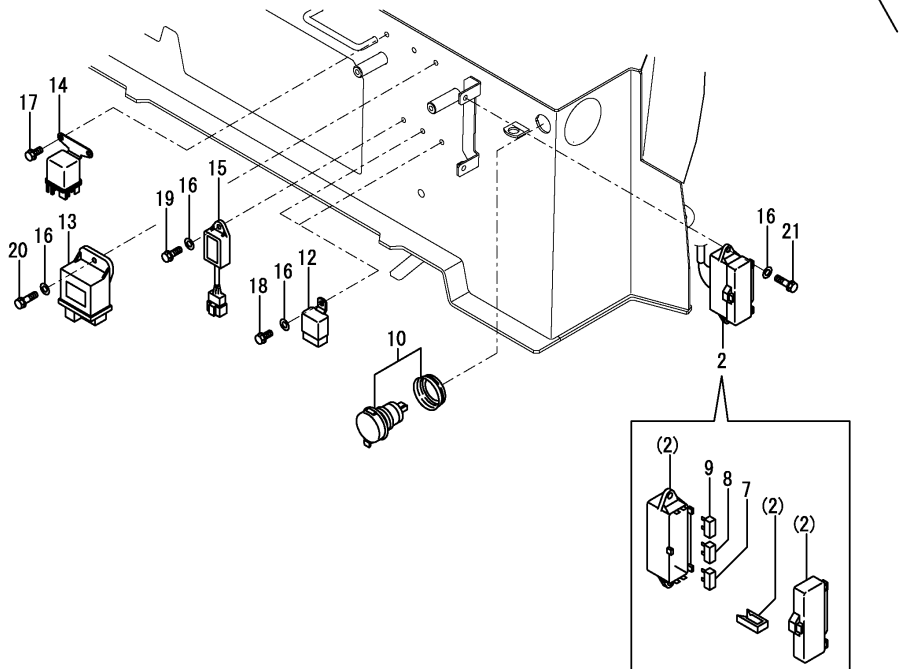
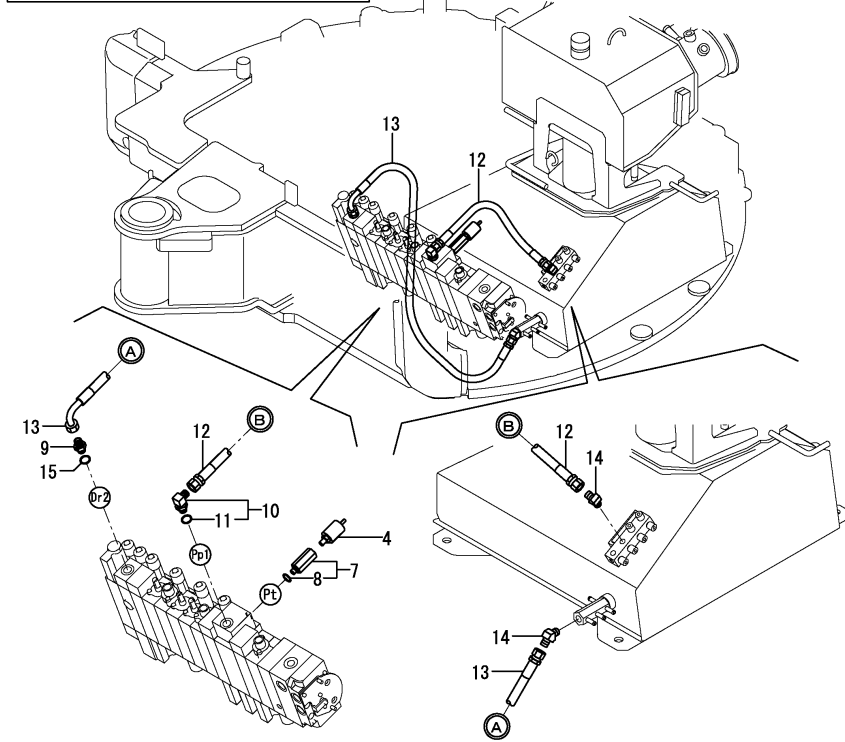
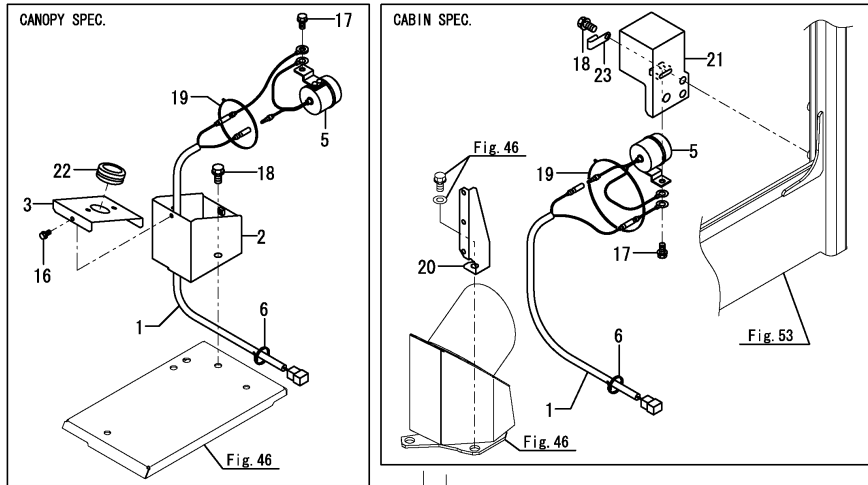


Fig.19. ELECTRIC PART(TRAVEL ALARM)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-16651	HARNES, TRAVEL	1	1	1	1				
2	1	172A47-16810	COVER ASSY, BUZZER	1	1	1	1				1
3	1	172A47-16860	COVER, FLASHER	1	1	1	1				1
4	1	172478-17200	SWITCH, PRESSURE	1	1	1	1				
4-1	1	172478-17201	SWITCH, PRESSURE	1	1	1	1				R
		(A=M53074) (B=M53074) (C=M53074) (D=M53074)									
5	1	172511-17351	BUZZER, BACK	1	1	1	1				
6	1	194202-56460	BAND, 200	3	3	3	3				
7	1	172A47-76110	CONNECTOR, G1/8XR1/8	1	1	1	1				
7-1	1	172A47-76111	CONNECTOR, G1/8XR1/8	1	1	1	1				N
		(A=M53403) (B=M53403) (C=M53403) (D=M53403)									
8	2	24315-000080	O-RING, 1BP8.0	1	1	1	1				
9	1	172123-76121	ADAPTER	1	1	1	1				
10	1	172141-76181	CONNECTOR ASSY, 02FF	1	1	1	1				
11	2	41851-000110	O-RING	1	1	1	1				
12	1	172A46-79100	HOSE	1	1	1	1				
13	1	172A46-79110	HOSE	1	1	1	1				
14	1	23394-020000	JOINT, 45RGI-1/4	2	2	2	2				
15	1	24315-000110	O-RING, 1BP11.0	1	1	1	1				
15-1	1	41851-000110	O-RING	1	1	1	1				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
16	1	26013-060122	BOLT, M6X 12	2	2	2	2				1
17	1	26013-080122	BOLT, M8X 12	1	1	1	1				
18	1	26013-100162	BOLT, M10X 16	2	2	2	2				
19	1	933168-55770	BAND	1	1	1	1				
20	1	172A46-16780	GUAIDE, HARNES	1	1	1	1				2
21	1	172A46-16810	BRACKET, BUZZER	1	1	1	1				2
22	1	172456-53700	GROMMET	1	1	1	1				1
23	1	172126-16540	CLAMP	1	1	1	1				2

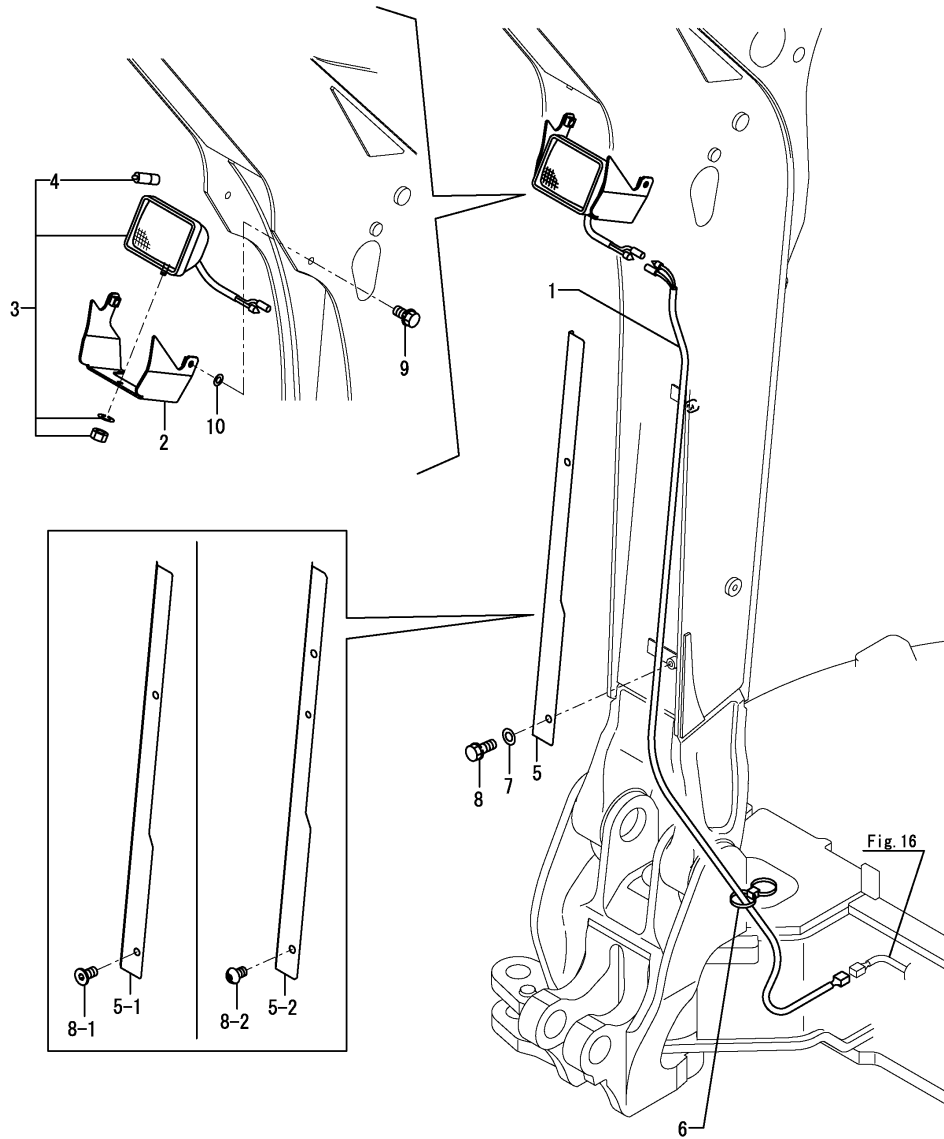
Remarks  
 (1)Canopy spec.  
 (2)Cabin spec.



Fig.20. ELECTRIC PART(WORK LAMP)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

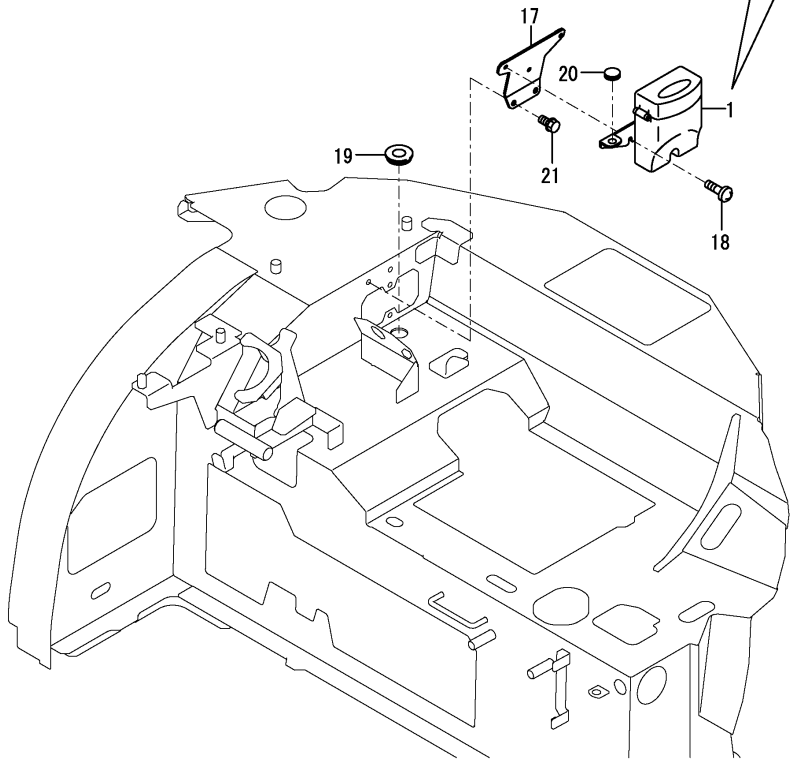
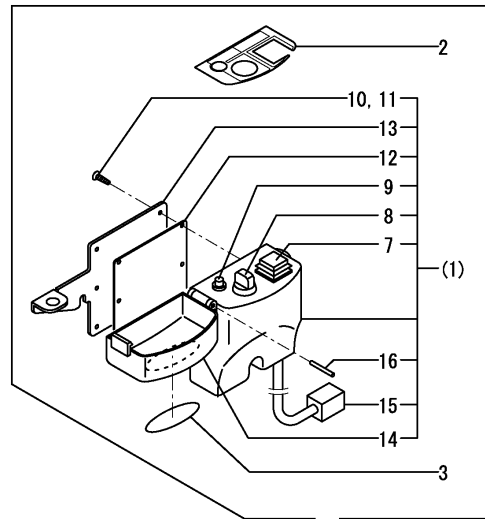


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-16550	HARNES BOOM LAMP	1	1	1	1				
2	1	172A46-17400-2	COVER, LAMP	1	1	1	1				
2-1	1	172A46-17400-Y	COVER, LAMP	1	1	1	1				S
3	1	172A58-17450	LAMP, WORK	1	1	1	1				
4	2	172187-17540	BULB	1	1	1	1				
5	1	172A85-17460-1	COVER, HARNES	1	1	1	1				
5-1	1	172A85-17461-1	COVER, HARNES	1	1	1	1				N
5-2	1	172A85-17462-2	COVER, HARNES	1	1	1	1				N
5-3	1	172A85-17462-Y	COVER, HARNES	1	1	1	1				S
6	1	172137-16560	BAND	1	1	1	1				
7	1	22137-100000	WASHER, 10	2	2	2	2				Z
8	1	26013-100162	BOLT, M10X 16	2	2	2	2				
8-1	1	172A85-17470	LOW HEAD SCREW 10X10	2	2	2	2				N
8-2	1	172958-83320	BOLT	2	2	2	2				S
9	1	26013-100252	BOLT, M10X 25	2	2	2	2				
10	1	22137-100000	WASHER, 10	2	2	2	2				W

Fig.21. ELECTRIC PART(QUICK COPLER : SWITCH BOX)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

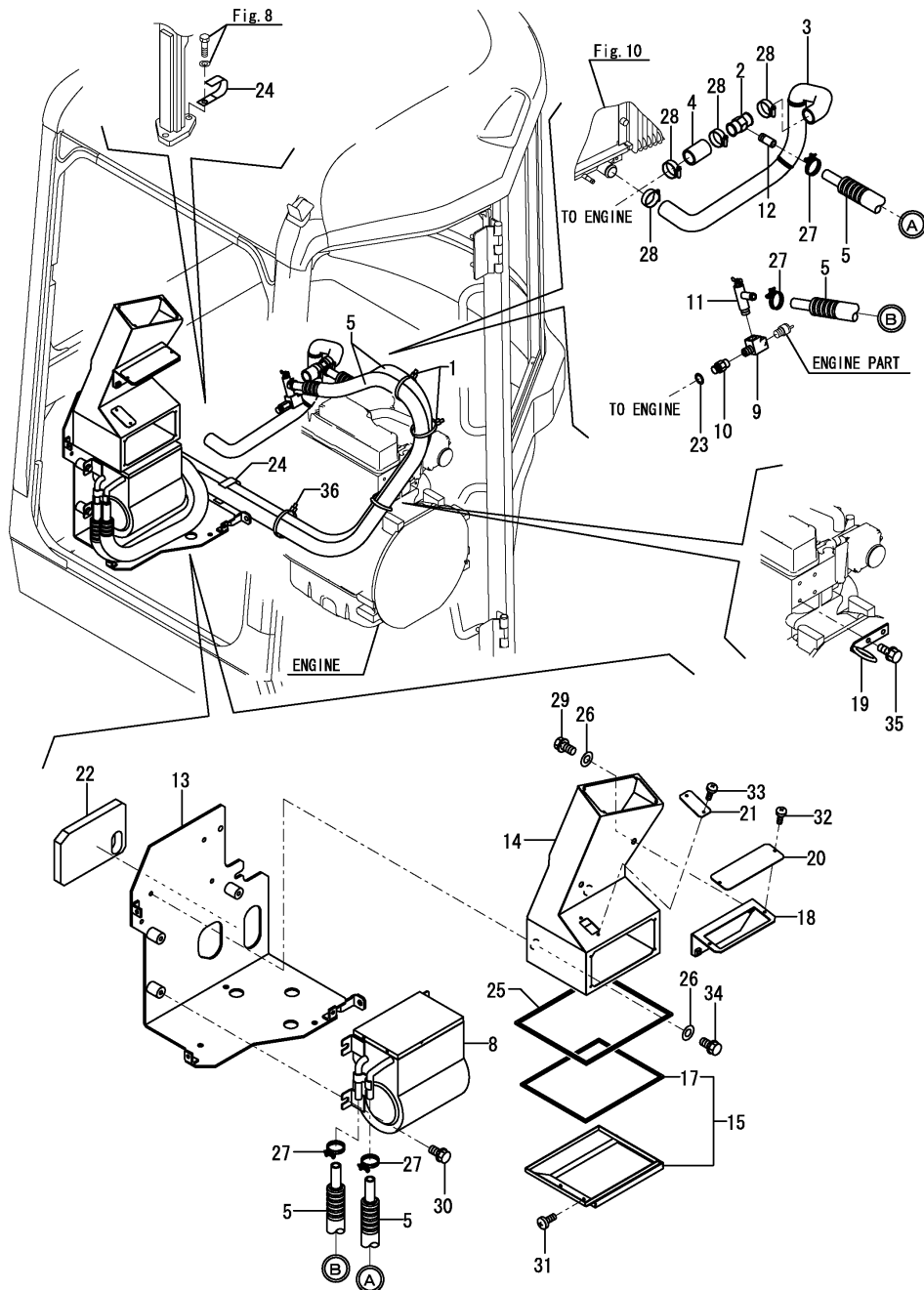


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17110	BOX, SWITCH	1	1	1	1				
1-1	1	172958-17111	BOX, SWITCH EX	1	1	1	1				N
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX) (D=MXXXXX)									
2	2	172472-03290	LABEL, SWITCH	1	1	1	1				
3	2	172472-03300	LABEL, COVER	1	1	1	1				
7	3	172958-17140	SWITCH ASSY	1	1	1	1				
8	3	172958-17150	SWITCH ASSY	1	1	1	1				
9	3	172958-17160	LAMP, INDICATOR	1	1	1	1				
10	3	172958-17170	SCREW, TAPPING	6	6	6	6				
11	3	172958-17180	SCREW, TAPPING	2	2	2	2				
12	3	172958-17190	PACKING	1	1	1	1				
13	3	172958-17200	BRACKET	1	1	1	1				
14	3	172958-17210	CASE	1	1	1	1				
15	3	172958-17220	CORD	1	1	1	1				
16	3	22351-030028	PIN, SPRING 3.0X28	1	1	1	1				
17	1	172A47-17900	STAY ASSY	1	1	1	1				
18	1	172137-46210	SCREW	3	3	3	3				
19	1	172958-64500	PLUG	1	1	1	1				
20	1	172187-64900	PLUG	1	1	1	1				
21	1	26013-080162	BOLT, M8X 16	2	2	2	2				

Fig.22. HEATER(TO M53438)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

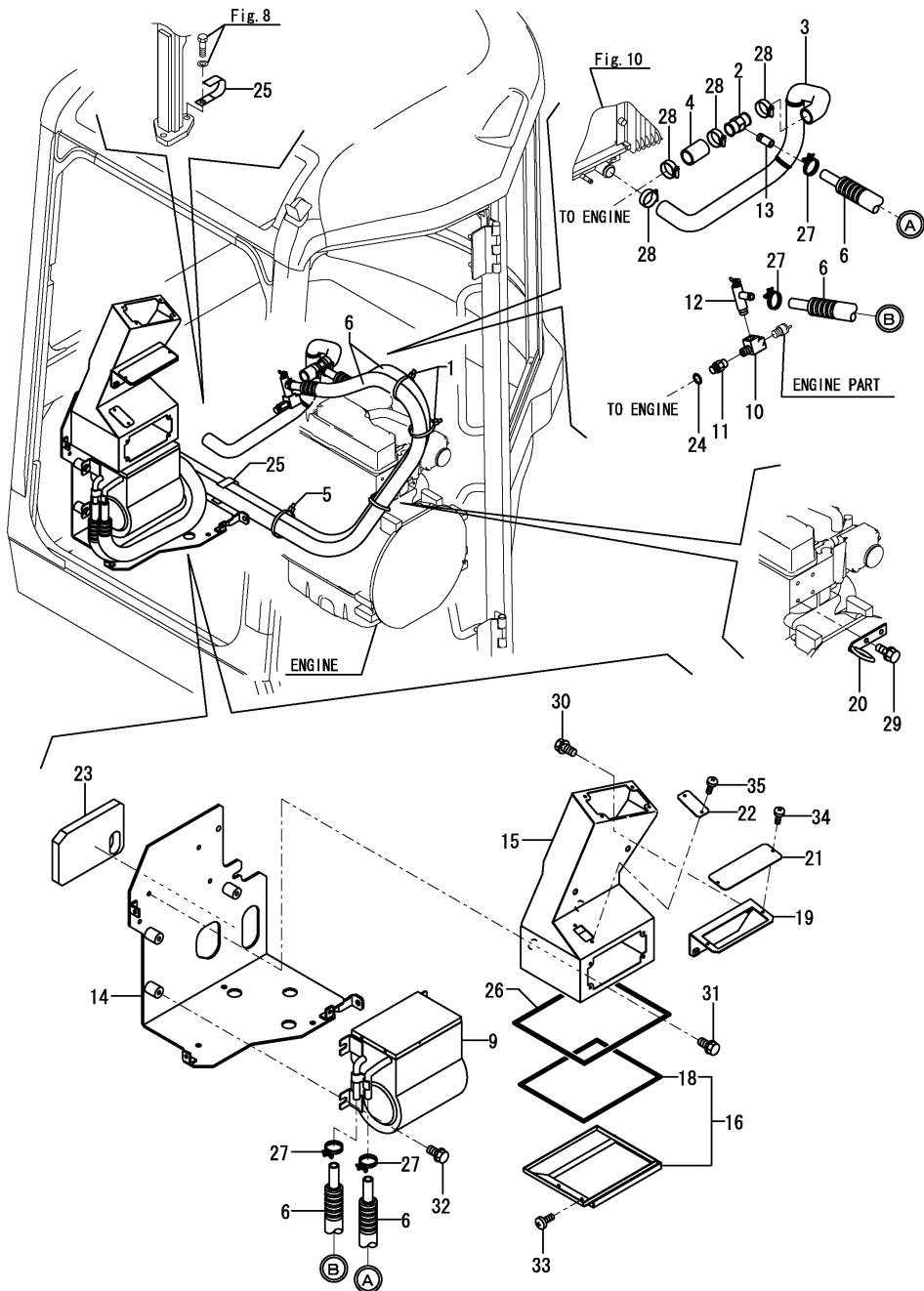


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND	2	2	2	2				
2	1	172141-13490	JOINT	1	1	1	1				
3	1	172A45-13710	PIPE, WATER	1	1	1	1				
3-1	1	172A45-13711 (A=M/#53185) (B=M/#53185) (C=M/#53185) (D=M/#53185)	HOSE,CW-T A-LOW	1	1	1	1				N
4	1	172A45-13720	PIPE, WATER	1	1	1	1				
5	1	172A47-17500	HOSE ASSY, HEATER	2	2	2	2				
8	1	172458-17551	HEATER	1	1	1	1				
9	1	172168-17601	CONNECTOR	1	1	1	1				
10	1	172137-17631	JOINT, HEATER	1	1	1	1				
11	1	172425-17630	VALVE ASSY, HEATER	1	1	1	1				
12	1	172124-17640	JOINT, PIPE	1	1	1	1				
13	1	172A47-18351	BRACKET, VALVE	1	1	1	1				
14	1	172A47-18391	DUCT ASSY	1	1	1	1				
15	1	172A47-18660	DUCT, HEATER	1	1	1	1				
17	2	172519-61550	CUSHION, BONNET	1	1	1	1				
18	1	172A47-18711-1	PLATE ASSY	1	1	1	1				
19	1	172A46-18770	GUIDE ASSY, HOSE	1	1	1	1				
20	1	172A47-18940	COVER, CONTROL	1	1	1	1				
21	1	172A47-18950	COVER, DUCT	1	1	1	1				
22	1	172A47-19400	SPONGE	1	1	1	1				
23	1	124465-44950	GASKET, 16	1	1	1	1				
24	1	1A1380-59480	CLAMP, CORD	1	1	1	1				
25	1	172519-61550	CUSHION, BONNET	1	1	1	1				
26	1	22137-080000	WASHER, 8	4	4	4	4				
27	1	23001-022000	CLAMP, HOSE 22	4	4	4	4				
28	1	23001-041000	CLAMP, HOSE 41	4	4	4	4				
29	1	26013-080162	BOLT, M8X 16	2	2	2	2				
30	1	26013-100252	BOLT, M10X 25	3	3	3	3				
31	1	26587-040122	SCREW, M4X12	4	4	4	4				
32	1	26587-040122	SCREW, M4X12	2	2	2	2				
33	1	26587-040122	SCREW, M4X12	2	2	2	2				
34	1	26013-080252	BOLT, M8X 25	2	2	2	2				
35	1	26013-080162	BOLT, M8X 16	2	2	2	2				
36	1	172183-16560	CLIP, HOSE	1	1	1	1				

Fig.119. (22A)HEATER(FROM M53439)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

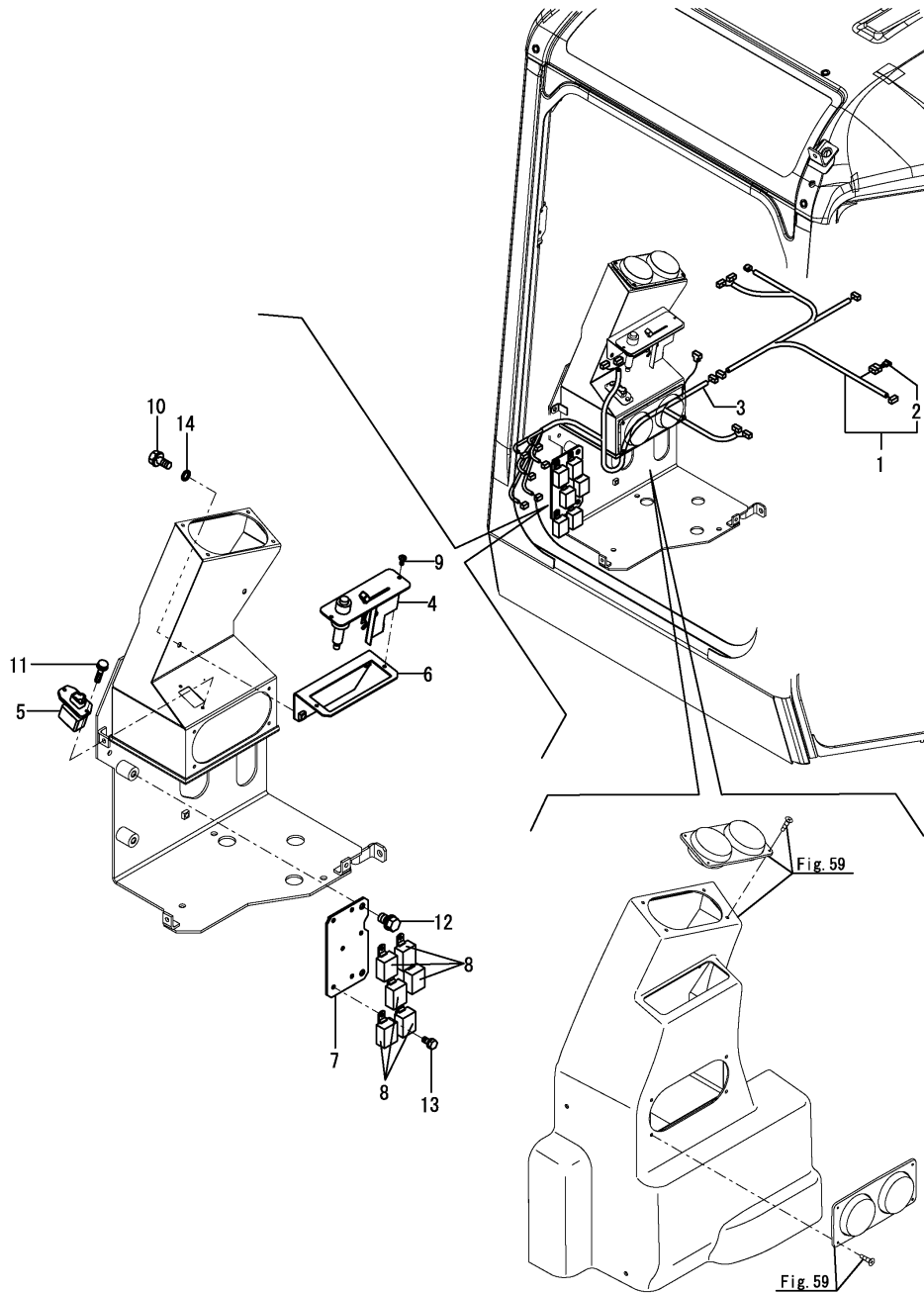


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND	2	2	2	2				
2	1	172141-13490	JOINT	1	1	1	1				
3	1	172A45-13711	HOSE,CW-T A-LOW	1	1	1	1				
4	1	172A45-13720	PIPE, WATER	1	1	1	1				
5	1	172183-16560	CLIP, HOSE	1	1	1	1				
6	1	172A47-17500	HOSE ASSY, HEATER	2	2	2	2				
9	1	172458-17551	HEATER	1	1	1	1				
10	1	172168-17601	CONNECTOR	1	1	1	1				
11	1	172137-17631	JOINT, HEATER	1	1	1	1				
12	1	172425-17630	VALVE ASSY, HEATER	1	1	1	1				
13	1	172124-17640	JOINT, PIPE	1	1	1	1				
14	1	172A47-18352	BRACKET ASSY	1	1	1	1				
15	1	172A47-18392	DUCT ASSY	1	1	1	1				
16	1	172A47-18660	DUCT, HEATER	1	1	1	1				
18	2	172519-61550	CUSHION, BONNET	1	1	1	1				
19	1	172A47-18711-1	PLATE ASSY	1	1	1	1				
20	1	172A46-18770	GUIDE ASSY, HOSE	1	1	1	1				
21	1	172A47-18940	COVER, CONTROL	1	1	1	1				
22	1	172A47-18950	COVER, DUCT	1	1	1	1				
23	1	172A47-19400	SPONGE	1	1	1	1				
24	1	124465-44950	GASKET, 16	1	1	1	1				
25	1	1A1380-59480	CLAMP, CORD	1	1	1	1				
26	1	172519-61550	CUSHION, BONNET	1	1	1	1				
27	1	23001-022000	CLAMP, HOSE 22	4	4	4	4				
28	1	23001-041000	CLAMP, HOSE 41	4	4	4	4				
29	1	26013-080162	BOLT, M8X 16	2	2	2	2				
30	1	26014-080162	BOLT, M8X 16	2	2	2	2				
31	1	26014-080252	BOLT, M8X 25	2	2	2	2				
32	1	26014-100202	BOLT, M10X 20	3	3	3	3				
33	1	26587-040122	SCREW, M4X12	4	4	4	4				
34	1	26587-040122	SCREW, M4X12	2	2	2	2				
35	1	26587-040122	SCREW, M4X12	2	2	2	2				

Fig.23. AIR CONDITIONER(ELECTRIC PART)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

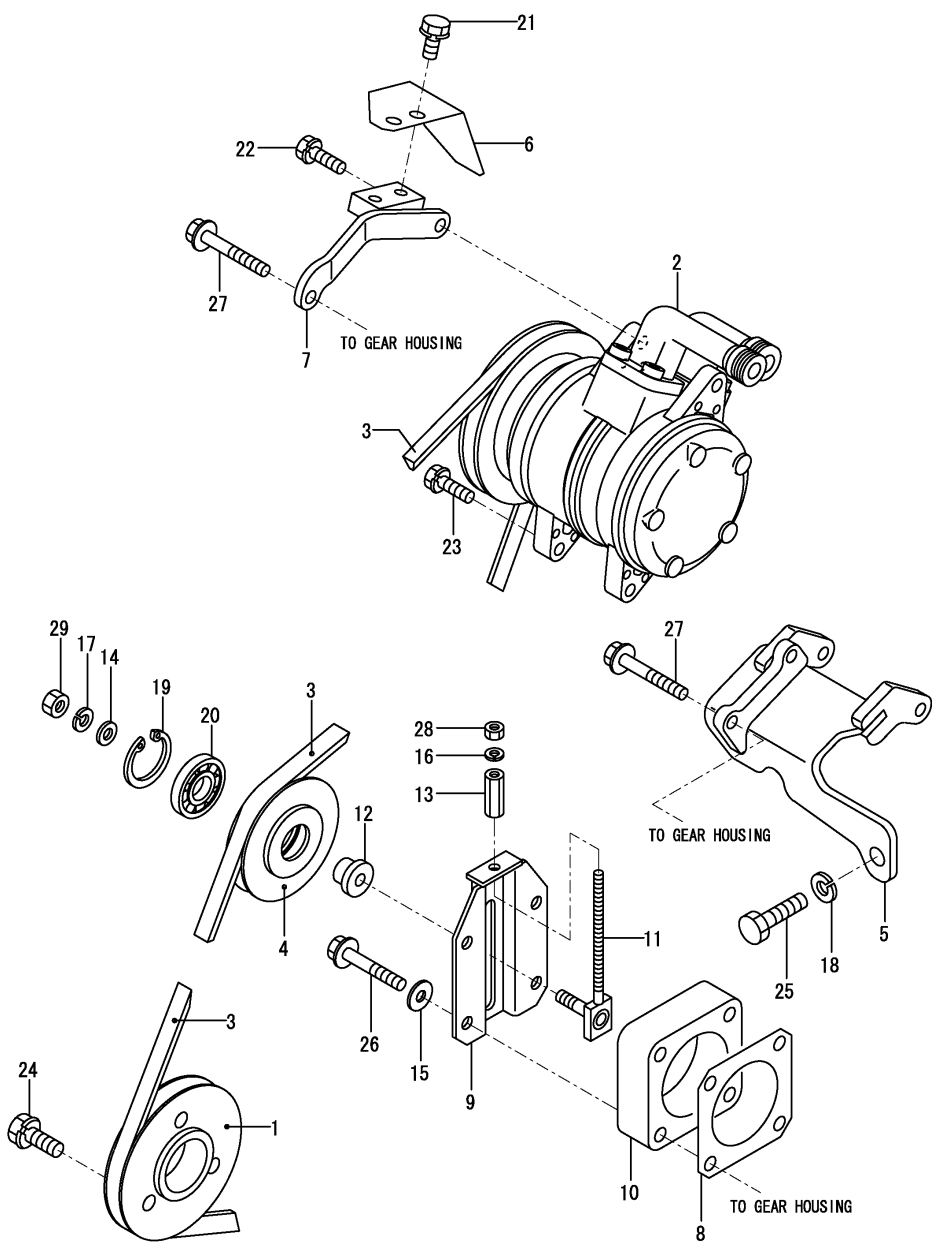


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-16560	HARNES, AIR	1	1	1	1				
2	2	172648-16600	DIODE	1	1	1	1				
3	1	172A47-16590	HARNES, WIRE	1	1	1	1				
3-1	1	172A47-16591 (A=M/#XXXXX) (B=M/#XXXXX) (C=M/#XXXXX) (D=M/#XXXXX)	HARNES, WIRE	1	1	1	1				N
4	1	1D4220-58150	PANEL, CONTROL	1	1	1	1				
5	1	1E8685-79940	RESISTOR, 100-40	1	1	1	1				
6	1	172A47-18711-1	PLATE ASSY	1	1	1	1				
7	1	172A47-18760	PLATE ASSY	1	1	1	1				
8	1	119247-77100	RELAY, SAFETY	6	6	6	6				
9	1	22867-400100	SCREW, 4X10	2	2	2	2				
10	1	26013-080162	BOLT, M8X 16	2	2	2	2				
11	1	26033-040202	SCREW, M4X20	2	2	2	2				
12	1	26013-100162	BOLT, M10X 16	2	2	2	2				
13	1	26013-060122	BOLT, M6X 12	6	6	6	6				
14	1	22137-080000	WASHER, 8	2	2	2	2				

Fig.24. AIR CONDITIONER(ENGINE RELATED)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

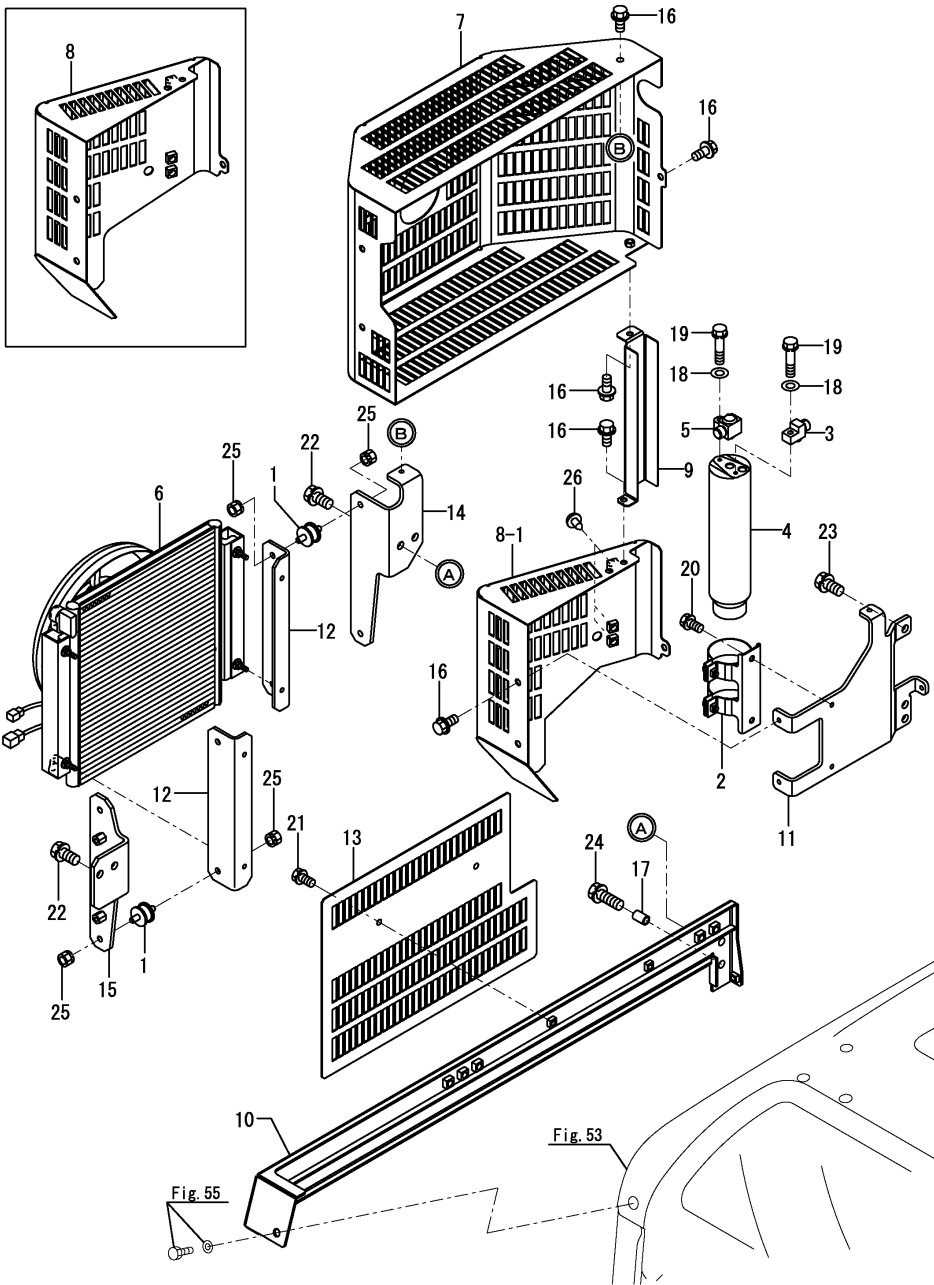


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-11200	PULLEY	1	1	1	1				
2	1	172460-18100	COMPRESSOR ASSY	1	1	1	1				
3	1	172460-18120	V-BELT	1	1	1	1				
4	1	172445-18131	PULLEY, TENSION	1	1	1	1				
5	1	172A45-18350	BRACKET ASSY,COMP	1	1	1	1				
6	1	172A46-18371	COVER, BELT	1	1	1	1				
7	1	172A45-18391	PLATE ASSY,COMP	1	1	1	1				
8	1	172A45-18420	PLATE E	1	1	1	1				
9	1	172165-18601	BRACKET ASSY, PULLEY	1	1	1	1				
10	1	172491-18620	PLATE	1	1	1	1				
11	1	172165-18630	ADJUSTER ASSY	1	1	1	1				
12	1	172165-18670	BOSS	1	1	1	1				
13	1	172164-19310	NUT	1	1	1	1				
14	1	1A1040-43900	WASHER, SPRING	1	1	1	1				
15	1	22190-080002	WASHER, SEAL 6	4	4	4	4				
16	1	22217-060000	WASHER, SPRING 6	1	1	1	1				
17	1	22217-080000	WASHER, SPRING 8	1	1	1	1				
18	1	22217-120000	WASHER, SPRING 12	1	1	1	1				
19	1	22252-000400	RING, 40	1	1	1	1				
20	1	24104-062030	BEARING, 6203UUC3	1	1	1	1				
21	1	26013-080162	BOLT, M8X 16	2	2	2	2				
22	1	26013-080252	BOLT, M8X 25	1	1	1	1				
23	1	26013-080302	BOLT, M8X 30	2	2	2	2				
24	1	26013-100202	BOLT, M10X 20	3	3	3	3				
25	1	26076-120452	BOLT, 10.912X 45	1	1	1	1				
26	1	26106-080502	BOLT, M8X 50 PLATED	4	4	4	4				
27	1	26106-080602	BOLT, M8X 60 PLATED	3	3	3	3				
28	1	26716-060002	NUT, M6	1	1	1	1				
29	1	26716-080002	NUT, M8	1	1	1	1				

Fig.25. AIR CONDITIONER(CONDENSER RELATED)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

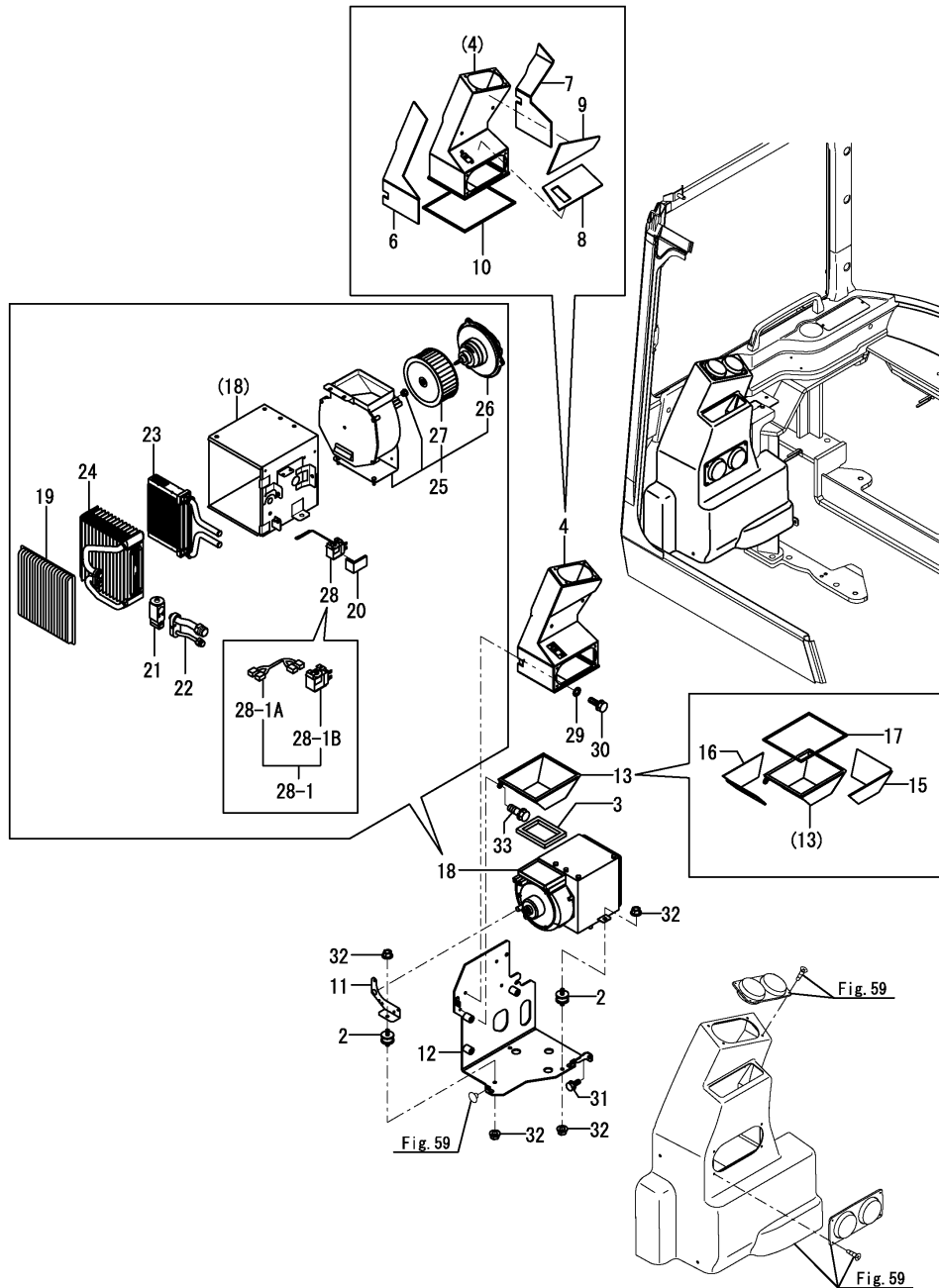


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-13550	MOUNT, PAD	4	4	4	4				
2	1	172162-18040	BRACKET, RADIATOR	1	1	1	1				
3	1	172460-18250	CONNECTOR	1	1	1	1				
4	1	1E8545-80210	DRIER, RECEIVER	1	1	1	1				
5	1	1E8545-80250	JOINT, RECEIVER	1	1	1	1				
6	1	172A47-18120	CONDENSER ASSY	1	1	1	1				
7	1	172A46-18240	COVER ASSY	1	1	1	1				
8	1	172A46-18261	COVER ASSY	1	1	1	1				
8-1	1	172A46-18262	COVER ASSY	1	1	1	1				N
(A=M53001) (B=M53001) (C=M53001) (D=M53001)											
9	1	172A46-18290	COVER	1	1	1	1				
10	1	172A46-18300	COVER	1	1	1	1				
11	1	172A46-18331	PLATE A	1	1	1	1				
12	1	172A46-18340	BRACKET,COND	2	2	2	2				
13	1	172A46-18350	COVER ASSY	1	1	1	1				
14	1	172A46-18380	PLATE B	1	1	1	1				
15	1	172A46-18390	PLATE C ASSY	1	1	1	1				
16	1	172519-63240	BOLT	10	10	10	10				
17	1	172175-76420	COLLAR	2	2	2	2				
18	1	22137-060000	WASHER, 6	2	2	2	2				
19	1	26013-060252	BOLT, M6X 25	2	2	2	2				
20	1	26013-080122	BOLT, M8X 12	2	2	2	2				
21	1	26013-080162	BOLT, M8X 16	2	2	2	2				
22	1	26013-100162	BOLT, M10X 16	4	4	4	4				
23	1	26013-100202	BOLT, M10X 20	3	3	3	3				
24	1	26013-100402	BOLT, M10X 40	2	2	2	2				
24-1	1	26013-100452	BOLT, M10X 45	2	2	2	2				N
(A=M53307) (B=M53307) (C=M53307) (D=M53307)											
25	1	26051-080002	NUT, M8	8	8	8	8				
26	1	172444-68650	CLIP, TREE	3	3	3	3				

Fig.26. AIR CONDITIONER(CABIN RELATED)(TO M53438)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



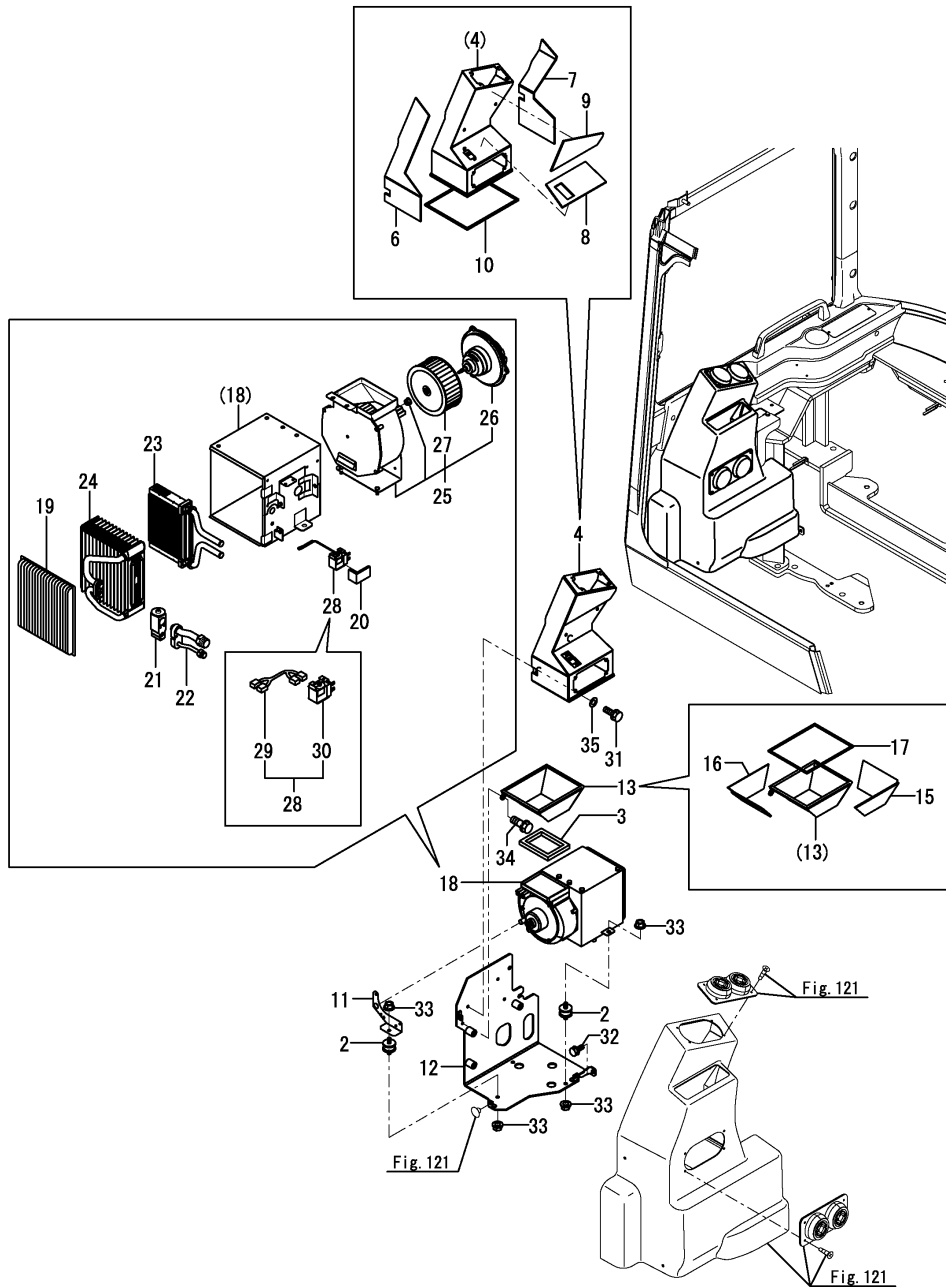
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	172447-13550	MOUNT, PAD	3	3	3	3				
3	1	172499-13750	SEAL, DUCT	1	1	1	1				
4	1	172A47-18261	DUCT ASSY	1	1	1	1				
6	2	172A47-19330	SHEET, INSULATOR	1	1	1	1				
7	2	172A47-19340	SHEET, INSULATOR	1	1	1	1				
8	2	172A47-19350	SHEET, INSULATOR	1	1	1	1				
9	2	172A47-19360	SHEET, INSULATOR	1	1	1	1				
10	2	172519-61550	CUSHION, BONNET	1	1	1	1				
11	1	172A47-18340	BRACKET	1	1	1	1				
12	1	172A47-18351	BRACKET, VALVE	1	1	1	1				
13	1	172A47-18600	DUCT ASSY	1	1	1	1				
15	2	172A47-19310	SHEET, INSULATOR	1	1	1	1				
16	2	172A47-19320	SHEET, INSULATOR	1	1	1	1				
17	2	172519-61550	CUSHION, BONNET	1	1	1	1				
18	1	1E9110-79610	CONDITIONER ASSY,AIR	1	1	1	1				
18-1	1	1E9110-79611	CONDITIONER ASSY,AIR	1	1	1	1				N
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX) (D=MXXXXX)									
19	2	1E9110-79680	FILTER	1	1	1	1				
20	2	1E9110-80100	GASKET	1	1	1	1				
21	2	1E9110-80130	VALVE, EXPANSION	1	1	1	1				
22	2	1E9110-80140	TUBE ASSY	1	1	1	1				
23	2	1E9110-80150	CORE, HEATER	1	1	1	1				
24	2	1E9110-80160	EVAPORATOR	1	1	1	1				
25	2	1E9110-80170	BLOWER ASSY	1	1	1	1				
26	3	1E9110-80110	MOTOR	1	1	1	1				
27	3	1E9110-80180	FAN, BLOWER	1	1	1	1				
28	2	1A7030-88100	THERMOSTAT ASSY	1	1	1	1				
28-1	2	1A7030-87090	THERMOSTAT KIT	1	1	1	1				N
		(A=M/#XXXXX) (B=M/#XXXXX) (C=M/#XXXXX) (D=M/#XXXXX)									
28-1A	3	1A7951-51300	CABLE, THERMOSTAT	1	1	1	1				W
		(A=M/#XXXXX) (B=M/#XXXXX) (C=M/#XXXXX) (D=M/#XXXXX)									
28-1B	3	1A7030-88101	THERMOSTAT ASSY	1	1	1	1				W
		(A=M/#XXXXX) (B=M/#XXXXX) (C=M/#XXXXX) (D=M/#XXXXX)									
29	1	22137-080000	WASHER, 8	2	2	2	2				
30	1	26013-080252	BOLT, M8X 25	2	2	2	2				
31	1	26013-100202	BOLT, M10X 20	3	3	3	3				
32	1	26051-080002	NUT, M8	6	6	6	6				
33	1	26013-080202	BOLT, M8X 20	2	2	2	2				



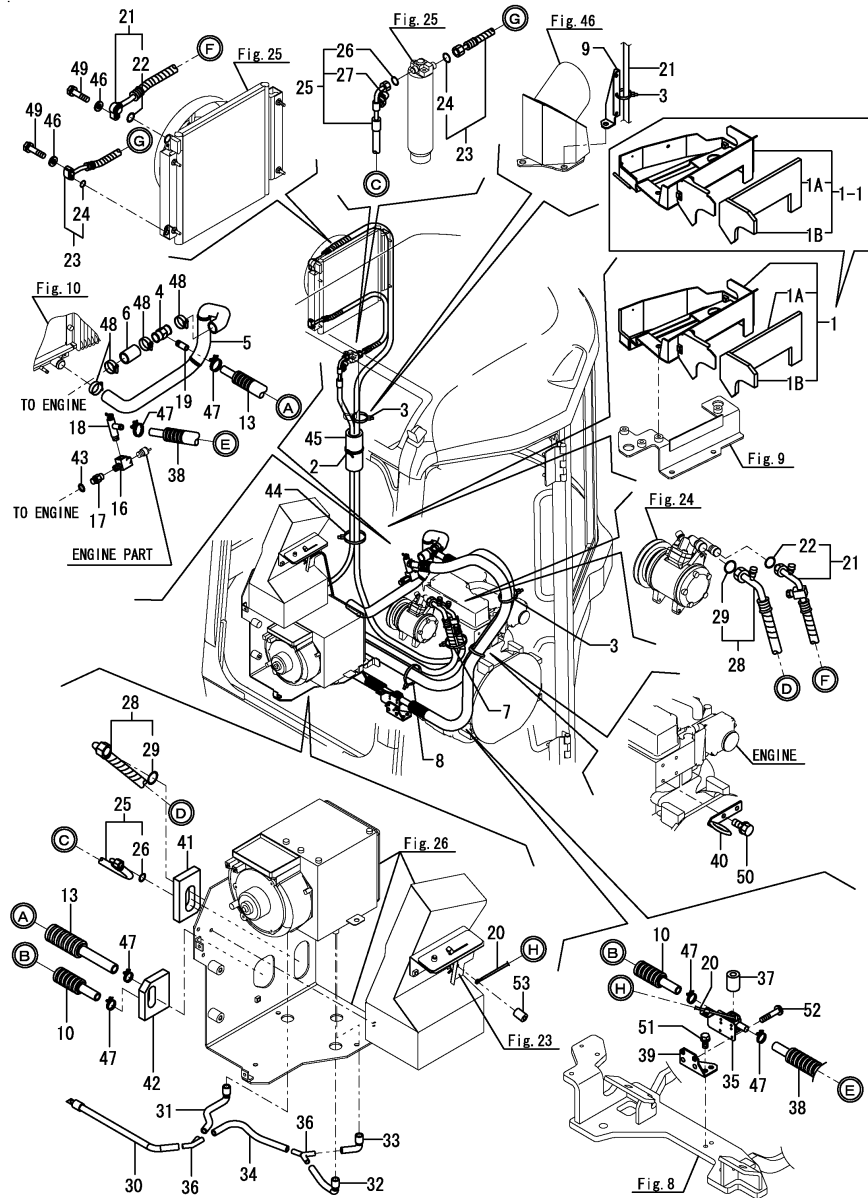
Fig.120. (26A)AIR CONDITIONER(CABIN RERATED)(FROM M53439)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	172447-13550	MOUNT, PAD	3	3	3	3				
3	1	172499-13750	SEAL, DUCT	1	1	1	1				
4	1	172A47-18262	DUCT ASSY	1	1	1	1				
6	2	172A47-19330	SHEET, INSULATOR	1	1	1	1				
7	2	172A47-19340	SHEET, INSULATOR	1	1	1	1				
8	2	172A47-19350	SHEET, INSULATOR	1	1	1	1				
9	2	172A47-19360	SHEET, INSULATOR	1	1	1	1				
10	2	172519-61550	CUSHION, BONNET	1	1	1	1				
11	1	172A47-18340	BRACKET	1	1	1	1				
12	1	172A47-18352	BRACKET ASSY	1	1	1	1				
13	1	172A47-18600	DUCT ASSY	1	1	1	1				
15	2	172A47-19310	SHEET, INSULATOR	1	1	1	1				
16	2	172A47-19320	SHEET, INSULATOR	1	1	1	1				
17	2	172519-61550	CUSHION, BONNET	1	1	1	1				
18	1	1E9110-79611	CONDITIONER ASSY,AIR	1	1	1	1				
19	2	1E9110-79680	FILTER	1	1	1	1				
20	2	1E9110-80100	GASKET	1	1	1	1				
21	2	1E9110-80130	VALVE, EXPANSION	1	1	1	1				
22	2	1E9110-80140	TUBE ASSY	1	1	1	1				
23	2	1E9110-80150	CORE, HEATER	1	1	1	1				
24	2	1E9110-80160	EVAPORATOR	1	1	1	1				
25	2	1E9110-80170	BLOWER ASSY	1	1	1	1				
26	3	1E9110-80110	MOTOR	1	1	1	1				
27	3	1E9110-80180	FAN, BLOWER	1	1	1	1				
28	2	1A7030-87090	THERMOSTAT KIT	1	1	1	1				
29	3	1A7951-51300	CABLE, THERMOSTAT	1	1	1	1				
30	3	1A7030-88101	THERMOSTAT ASSY	1	1	1	1				
31	1	26013-080252	BOLT, M8X 25	2	2	2	2				
32	1	26013-100202	BOLT, M10X 20	3	3	3	3				
33	1	26051-080002	NUT, M8	6	6	6	6				
34	1	26013-080202	BOLT, M8X 20	2	2	2	2				
35	1	22137-080000	WASHER, 8	2	2	2	2				



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

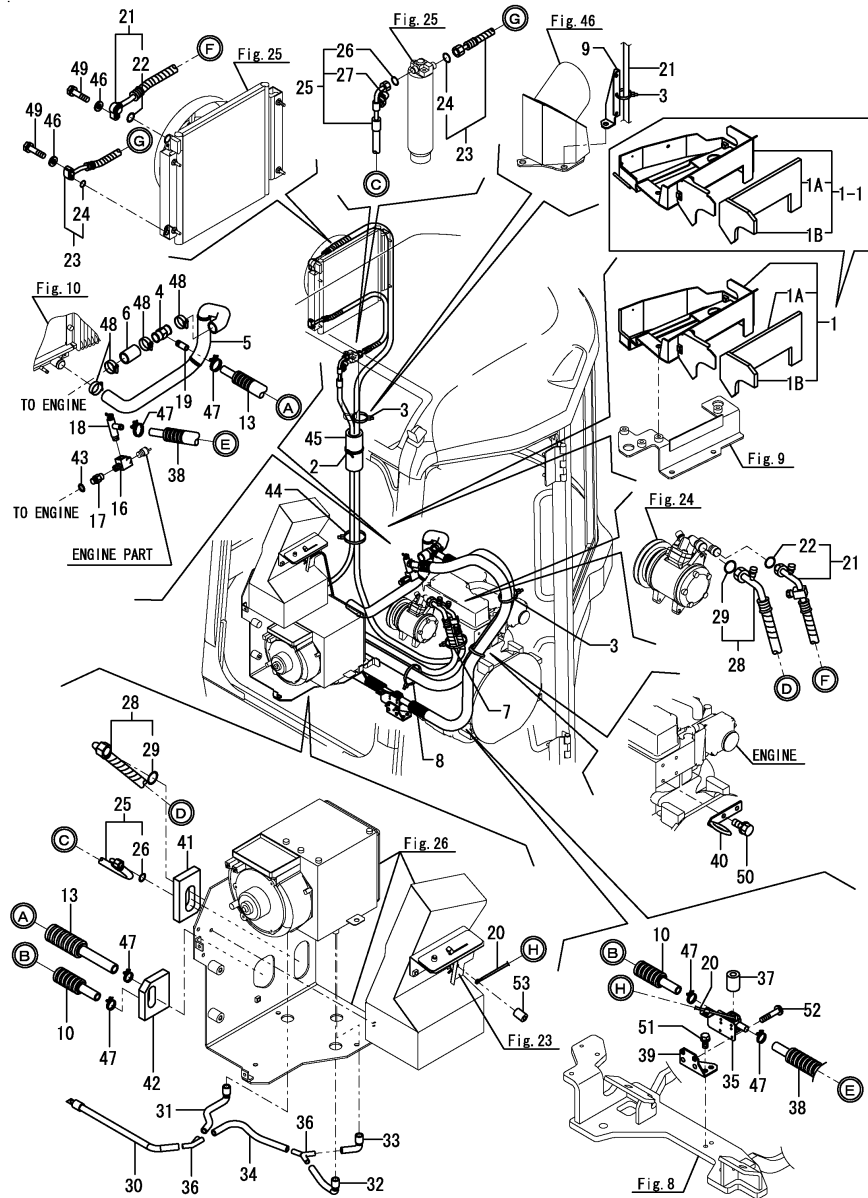
(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172A46-05300	BRACKET AC ASSY,T	1	1	1	1					1
1-1	1	172A46-13121	BRACKET ASSY, DUCT	1	1	1	1					N 1
		(A=M/#53227) (B=M/#53227) (C=M/#53227) (D=M/#53227)										
1A	2	172A46-13130	WOOL, GLASS	1	1	1	1					
1B	2	172A46-13140	WOOL, GLASS	1	1	1	1					
1D	1	172A38-03211	LABEL, ANTI-FREEZING	1	1	1	1					2
1E	1	172437-03391	LABEL, RADIATOR	1	1	1	1					2
2	1	172126-11510	BAND	1	1	1	1					
3	1	172126-11510	BAND	2	2	2	2					
4	1	172141-13490	JOINT	1	1	1	1					
5	1	172A45-13710	PIPE, WATER	1	1	1	1					
5-1	1	172A45-13711	HOSE,CW-T A-LOW	1	1	1	1					N
		(A=M/#53185) (B=M/#53185) (C=M/#53185) (D=M/#53185)										
6	1	172A45-13720	PIPE, WATER	1	1	1	1					
7	1	172137-16560	BAND	1	1	1	1					
8	1	172183-16560	CLIP, HOSE	1	1	1	1					
9	1	172A46-16780	GUAIDE, HARNESS	1	1	1	1					
10	1	172A47-17530	HOSE ASSY, HEATER	1	1	1	1					
13	1	172A46-17600	HOSE ASSY, HEATER	1	1	1	1					
16	1	172168-17601	CONNECTOR	1	1	1	1					
17	1	172137-17631	JOINT, HEATER	1	1	1	1					
18	1	172425-17630	VALVE ASSY, HEATER	1	1	1	1					
19	1	172124-17640	JOINT, PIPE	1	1	1	1					
20	1	172A47-18140	CABLE	1	1	1	1					
21	1	172A46-18190	HOSE	1	1	1	1					
22	2	1A7030-88820	O-RING	2	2	2	2					
23	1	172A46-18200	HOSE	1	1	1	1					
24	2	1A7030-88760	O-RING	2	2	2	2					
25	1	172A46-18210	HOSE	1	1	1	1					
26	2	1A7030-88760	O-RING	2	2	2	2					
27	2	172A47-18230	SWITCH, PRESSURE	1	1	1	1					
28	1	172A46-18220	HOSE	1	1	1	1					
29	2	1A7030-88840	O-RING	2	2	2	2					
30	1	172A46-18450	DREN	1	1	1	1					
31	1	172A46-18460	DREN	1	1	1	1					
32	1	172A46-18470	DREN	1	1	1	1					
33	1	172A46-18480	DREN	1	1	1	1					
34	1	172A46-18490	DREN	1	1	1	1					
35	1	1E8685-79920	VALVE, WATER	1	1	1	1					
36	1	1E8545-80030	JOINT, DRAIN	2	2	2	2					
37	1	172A47-18300	BUSH	1	1	1	1					
38	1	172458-18660	HOSE ASSY, HEATER	1	1	1	1					
39	1	172A47-18730	BRACKET ASSY	1	1	1	1					
40	1	172A46-18770	GUIDE ASSY, HOSE	1	1	1	1					
41	1	172A47-19380	SPONGE	1	1	1	1					
41-1	1	172A47-19381	SPONGE	1	1	1	1					N
		(A=M53314) (B=M53314) (C=M53314) (D=M53314)										
42	1	172A47-19390	SPONGE	1	1	1	1					
42-1	1	172A47-19391	SPONGE	1	1	1	1					N
		(A=M53314) (B=M53314) (C=M53314) (D=M53314)										
43	1	124465-44950	GASKET, 16	1	1	1	1					

Remarks

- (1)Please use this part with following label at the same time.  
 Ref.No.1D,1E.
- (2)Label is not illustrated.

Fig.27. AIR CONDITIONER(PIPING)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
44	1	194680-51670	BAND, CLIP	3	3	3	3				
45	1	172458-63641	SPONGE, HOSE	1	1	1	1				
46	1	22137-060000	WASHER, 6	2	2	2	2				
47	1	23001-022000	CLAMP, HOSE 22	6	6	6	6				
48	1	23001-041000	CLAMP, HOSE 41	4	4	4	4				
49	1	26013-060252	BOLT, M6X 25	2	2	2	2				
50	1	26013-080162	BOLT, M8X 16	2	2	2	2				
51	1	26013-100202	BOLT, M10X 20	2	2	2	2				
52	1	26587-040202	SCREW, M4X20	2	2	2	2				
53	1	172A47-18300	BUSH	1	1	1	1				W
		(A=M53001)	(B=M53001)	(C=M53001)	(D=M53001)						

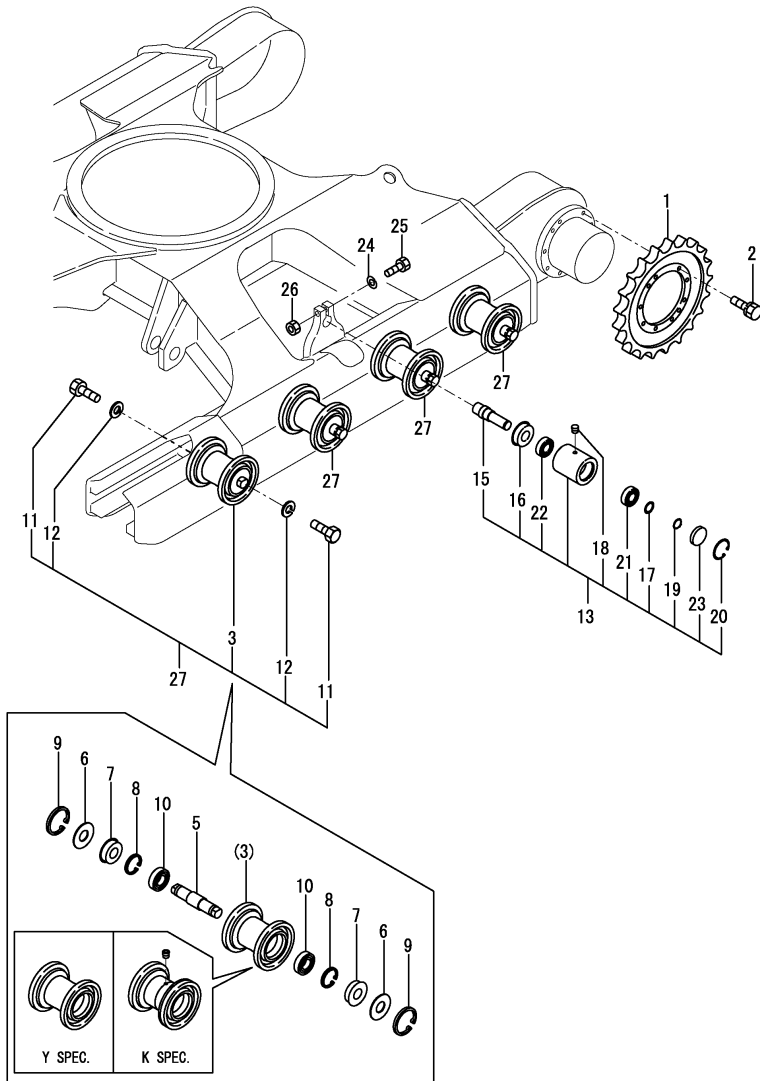
Remarks

- (1) Please use this part with following label at the same time. Ref.No.1D,1E.
- (2) Label is not illustrated.

Fig.29. SPROCKET & ROLLER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172457-29100-2	SPROCKET	2	2	2	2				
2	1	26013-100252	BOLT, M10X 25	24	24	24	24				
3	1	172441-37301-2	ROLLER, TRUCK	8	8	8	8				
3-1	1	172441-37302 (A=M54391) (B=M54391) (C=M54391) (D=M54391)	ROLLER ASSY,TRACK	8	8	8	8				N
3-2	1	172441-37302 (A=*2014.05) (B=*2014.05) (C=*2014.05) (D=*2014.05)	ROLLER ASSY,TRACK	8	8	8	8				Z 2
5	2	172422-37310	SHAFT, ROLLER	8	8	8	8				
6	2	172141-37320	SPACER	16	16	16	16				
7	2	1A1030-48250	SEAL, QLF30621218	16	16	16	16				
8	2	22252-000620	RING, 62	16	16	16	16				
9	2	22252-000750	RING, 75	16	16	16	16				
10	2	933111-73800	BEARING, BALL	16	16	16	16				
11	1	172490-37320	BOLT	16	16	16	16				
12	1	22217-160000	WASHER, SPRING 16	16	16	16	16				
13	1	172458-37500-2	ROLLER ASSY, CARRIER	2	2	2	2				
15	2	172458-37570	SHAFT	2	2	2	2				
16	2	172458-37580	SEAL, OIL	2	2	2	2				
17	2	172458-37590	COLLAR	2	2	2	2				
18	2	194630-42120	PLUG, PT1/8	2	2	2	2				
19	2	22242-000250	RING, 25	2	2	2	2				
20	2	22252-000521	RING, 52	2	2	2	2				
21	2	24101-062054	BEARING, BALL 6205	2	2	2	2				
22	2	24102-062054	BEARING, BALL 6205U	2	2	2	2				
23	2	27260-520000	PLUG, 52	2	2	2	2				
24	1	22217-140000	WASHER, SPRING 14	2	2	2	2				
25	1	26116-140652	BOLT, M14X 65 PLATED	2	2	2	2				
26	1	26716-140002	NUT, M14	2	2	2	2				
27	1	772441-37300-2 (A=M53001) (B=M53001) (C=M53001) (D=M53001)	ROLLER ASSY, TRUCK	8	8	8	8				W 1
27-1	1	772441-37300-2 (A=*2014.05) (B=*2014.05) (C=*2014.05) (D=*2014.05)	ROLLER ASSY, TRUCK	8	8	8	8				Z

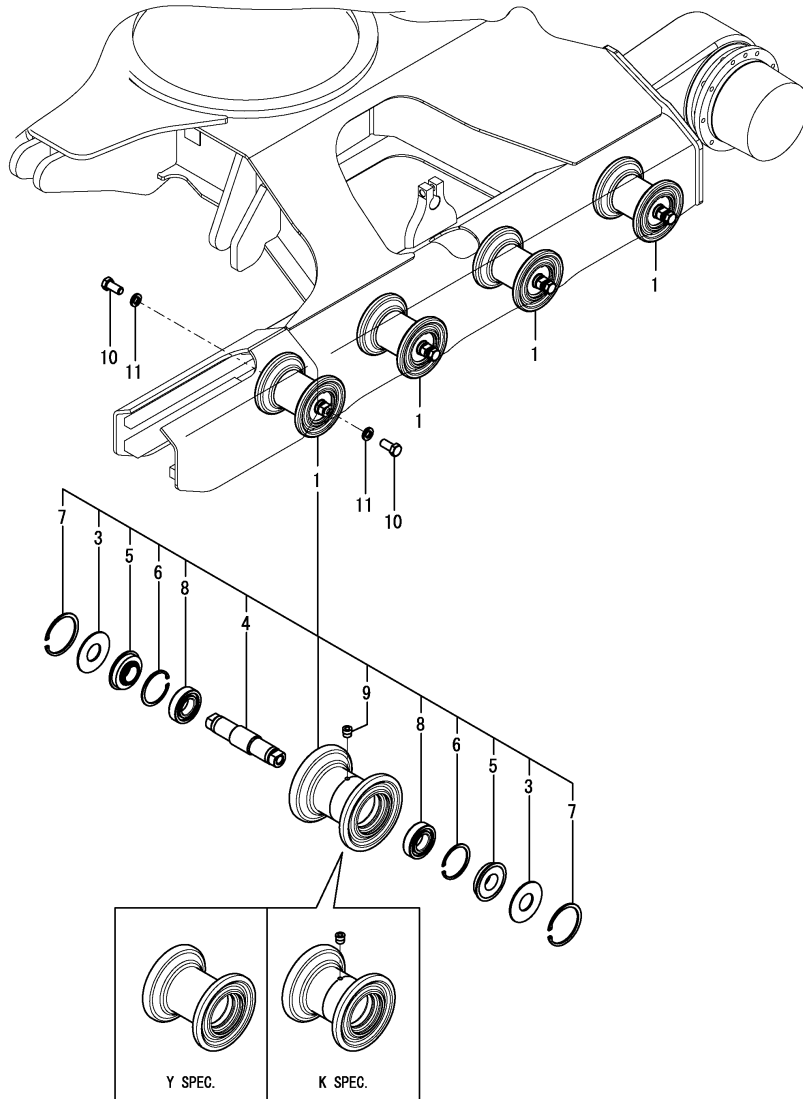
Remarks

- (1) Include Ref.No.3,11,12.
  - (2) Y specification. replacement with Fig.123(29A) No.1.
- The inner parts are not compatible.

Fig.123. (29A)TRACK ROLLER(K SPEC.)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



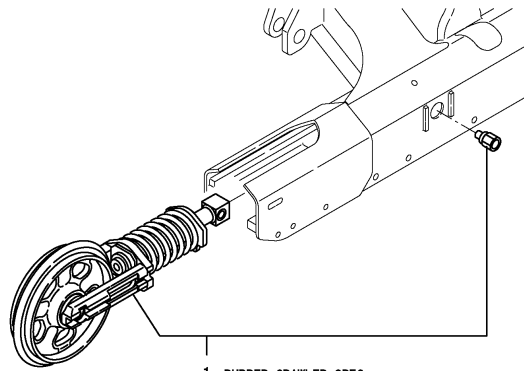
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B03-37300 (A=*2014.05.) (B=*2014.05.)	ROLLER ASSY,LOWER (C=*2014.05.) (D=*2014.05.)	8	8	8	8				W
3	2	172141-37320	SPACER	16	16	16	16				
4	2	172B03-37320	SHAFT	8	8	8	8				
5	2	1A1030-48250	SEAL,OIL QLF30621218	16	16	16	16				
6	2	22252-000620	RING, 62	16	16	16	16				
7	2	22252-000750	RING, 75	16	16	16	16				
8	2	24101-062064	BEARING, BALL 6206	16	16	16	16				
9	2	933171-13691	PLUG	8	8	8	8				
10	1	172490-37320	BOLT	16	16	16	16				
11	1	22217-160000	WASHER, SPRING 16	16	16	16	16				

Remarks  
 \*Track roller(Y spec.) are shown in Fig.29.  
 The inner parts are not compatible.

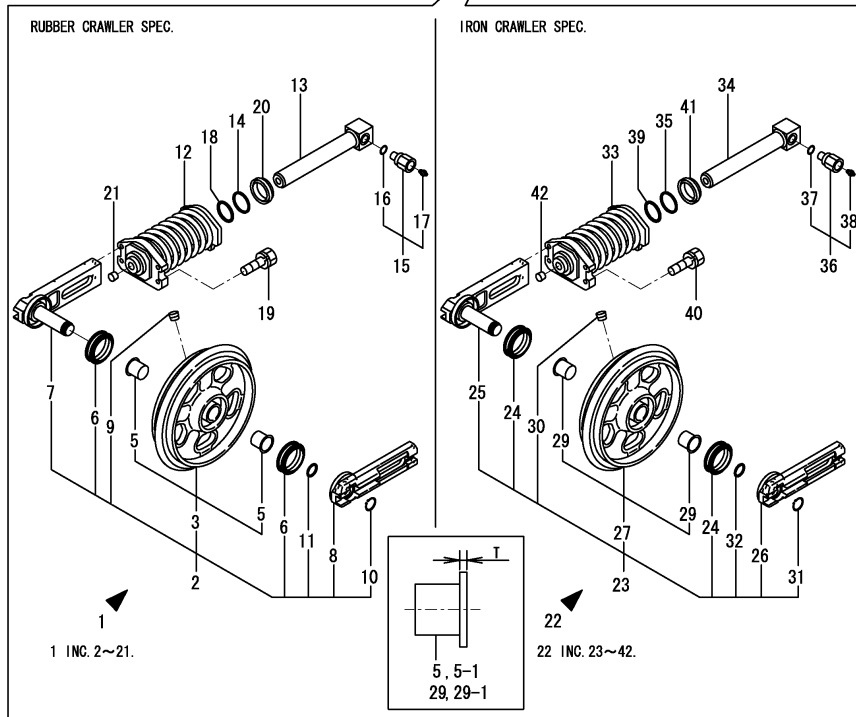
Fig.30. IDLER & ADJUST

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



1 RUBBER CRAWLER SPEC.  
 22 IRON CRAWLER SPEC.



1 INC. 2~21.

5, 5-1  
 29, 29-1

22 ING. 23~42.

Remarks

- (1)Rubber crawler spec.
- (2)Iron crawler spec.
- (3)T=Ref.No.5,29:2mm, No.5-1,29-1:4.5mm.

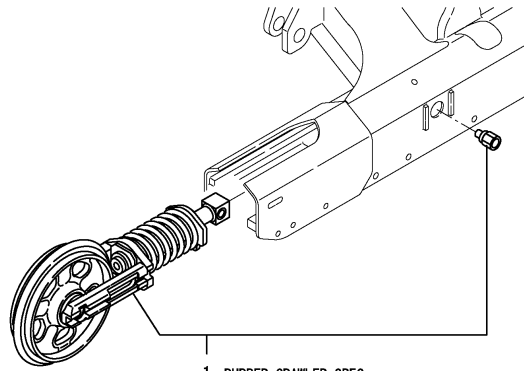
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772458-37200-2	IDLER ASSY, RUBBER	2	2	2	2				1
2	2	772458-37100-2	IDLER ASSY	2	2	2	2				
3	3	172458-37101-2	IDLER ASSY	2	2	2	2				
3-1	3	172458-37102	IDLER ASSY	2	2	2	2				N
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
5	4	172423-37370	BUSH	4	4	4	4				
5-1	4	172A77-37370	BUSH	4	4	4	4				S 3
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
6	3	172458-37120	SEAL, FLOATING	4	4	4	4				
7	3	172458-37130	SHAFT ASSY, IDLER	2	2	2	2				
7-1	3	172458-37131	SHAFT ASSY, IDLER	2	2	2	2				N
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
8	3	172458-37150	COVER, SEAL	2	2	2	2				
8-1	3	172458-37151	COVER, SEAL	2	2	2	2				N
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
9	3	194630-42120	PLUG, PT1/8	2	2	2	2				
10	3	22242-000300	RING, 30	2	2	2	2				
11	3	24321-000300	O-RING, 1AG30.0	2	2	2	2				
12	2	172458-37700	SPRING ASSY, CRAWLER	2	2	2	2				
13	2	172422-37780	PISTON ASSY, ADJUST	2	2	2	2				
14	2	172460-37750	RING, BACK UP	2	2	2	2				
15	2	172122-37844	VALVE ASSY, NIPPLE	2	2	2	2				
16	3	24315-000140	O-RING, 1BP14.0	2	2	2	2				
17	3	24761-020000	NIPPLE, GREASE PT1/8	2	2	2	2				
18	2	24325-000400	O-RING, 1BG40.0	2	2	2	2				
19	2	26013-100402	BOLT, M10X 40	8	8	8	8				
20	2	933111-23600	SEAL, OIL	2	2	2	2				
21	2	933171-13691	PLUG	2	2	2	2				
22	1	772458-37120-2	IDLER ASSY, IRON	2	2	2	2				2
23	2	772458-37110-2	IDLER ASSY	2	2	2	2				
24	3	172458-37120	SEAL, FLOATING	4	4	4	4				
25	3	172458-37130	SHAFT ASSY, IDLER	2	2	2	2				
25-1	3	172458-37131	SHAFT ASSY, IDLER	2	2	2	2				N
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
26	3	172458-37150	COVER, SEAL	2	2	2	2				
26-1	3	172458-37151	COVER, SEAL	2	2	2	2				N
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
27	3	172458-37171-2	IDLER ASSY	2	2	2	2				
27-1	3	172458-37172-1	IDLER ASSY	2	2	2	2				N
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
29	4	172423-37370	BUSH	4	4	4	4				
29-1	4	172A77-37370	BUSH	4	4	4	4				S 3
		(A=M53470)	(B=M53470)	(C=M53470)	(D=M53470)						
30	3	194630-42120	PLUG, PT1/8	2	2	2	2				
31	3	22242-000300	RING, 30	2	2	2	2				
32	3	24321-000300	O-RING, 1AG30.0	2	2	2	2				
33	2	172458-37700	SPRING ASSY, CRAWLER	2	2	2	2				
34	2	172422-37780	PISTON ASSY, ADJUST	2	2	2	2				
35	2	172460-37750	RING, BACK UP	2	2	2	2				
36	2	172122-37844	VALVE ASSY, NIPPLE	2	2	2	2				
37	3	24315-000140	O-RING, 1BP14.0	2	2	2	2				

Fig.30. IDLER & ADJUST

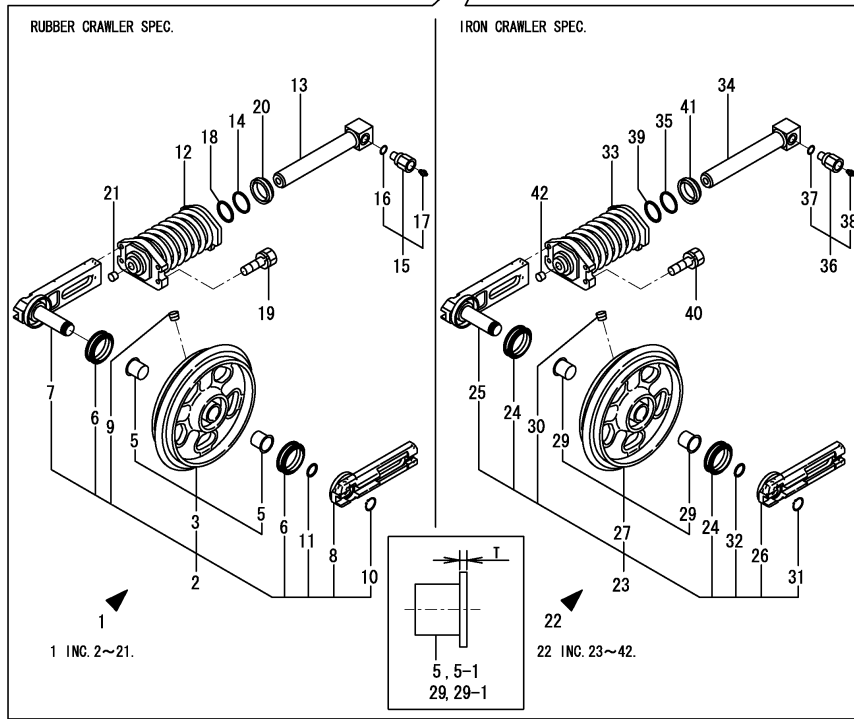
(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
38	3	24761-020000	NIPPLE, GREASE PT1/8	2	2	2	2				
39	2	24325-000400	O-RING, 1BG40.0	2	2	2	2				
40	2	26013-100402	BOLT, M10X 40	8	8	8	8				
41	2	933111-23600	SEAL, OIL	2	2	2	2				
42	2	933171-13691	PLUG	2	2	2	2				



1 RUBBER CRAWLER SPEC.  
 22 IRON CRAWLER SPEC.



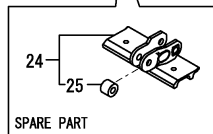
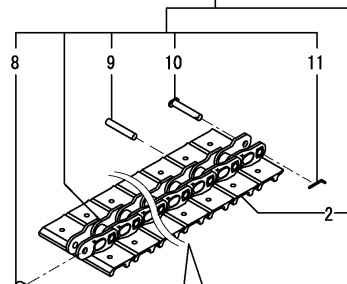
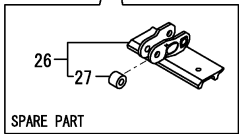
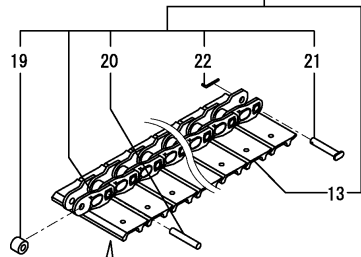
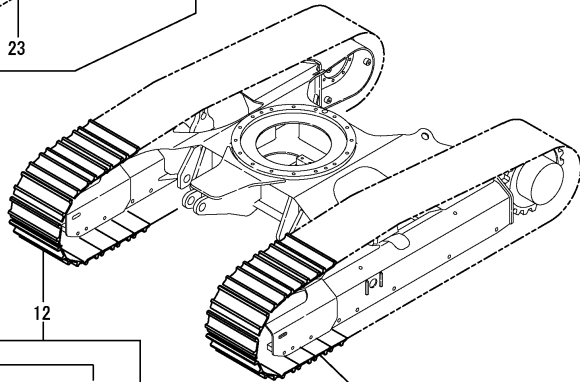
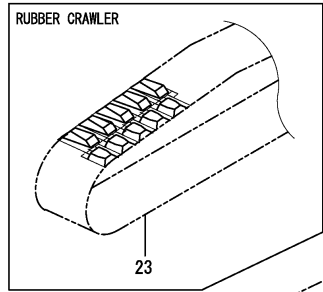
Remarks

- (1)Rubber crawler spec.
- (2)Iron crawler spec.
- (3)T=Ref.No.5,29:2mm, No.5-1,29-1:4.5mm.

Fig.31. CRAWLER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172457-38101	SHOE ASSY, TRACK 300	1	1	1	1				1
2	2	172458-38110-2	PLATE, SHOE	41	41	41	41				
8	3	172458-38201	BUSH, TRUCK	41	41	41	41				
9	3	172458-38210	PIN, TRUCK	40	40	40	40				
10	3	172458-38220	PIN, MASTER	1	1	1	1				
11	3	172458-38230	PIN, STOP	1	1	1	1				
12	1	172457-38121	SHOE ASSY, TRACK 300	1	1	1	1				1
13	2	172458-38130-2	PLATE, SHOE	41	41	41	41				
19	3	172458-38201	BUSH, TRUCK	41	41	41	41				
20	3	172458-38210	PIN, TRUCK	40	40	40	40				
21	3	172458-38220	PIN, MASTER	1	1	1	1				
22	3	172458-38230	PIN, STOP	1	1	1	1				
23	1	172457-38600	CRAWLER, RUBBER 260	2	2	2	2				2
24	1	172458-38300-2	TRACK ASSY, MASTER	1	1	1	1				3
25	2	172458-38201	BUSH, TRUCK	1	1	1	1				
26	1	172458-38310-2	TRACK ASSY, MASTER	1	1	1	1				3
27	2	172458-38201	BUSH, TRUCK	1	1	1	1				

Remarks

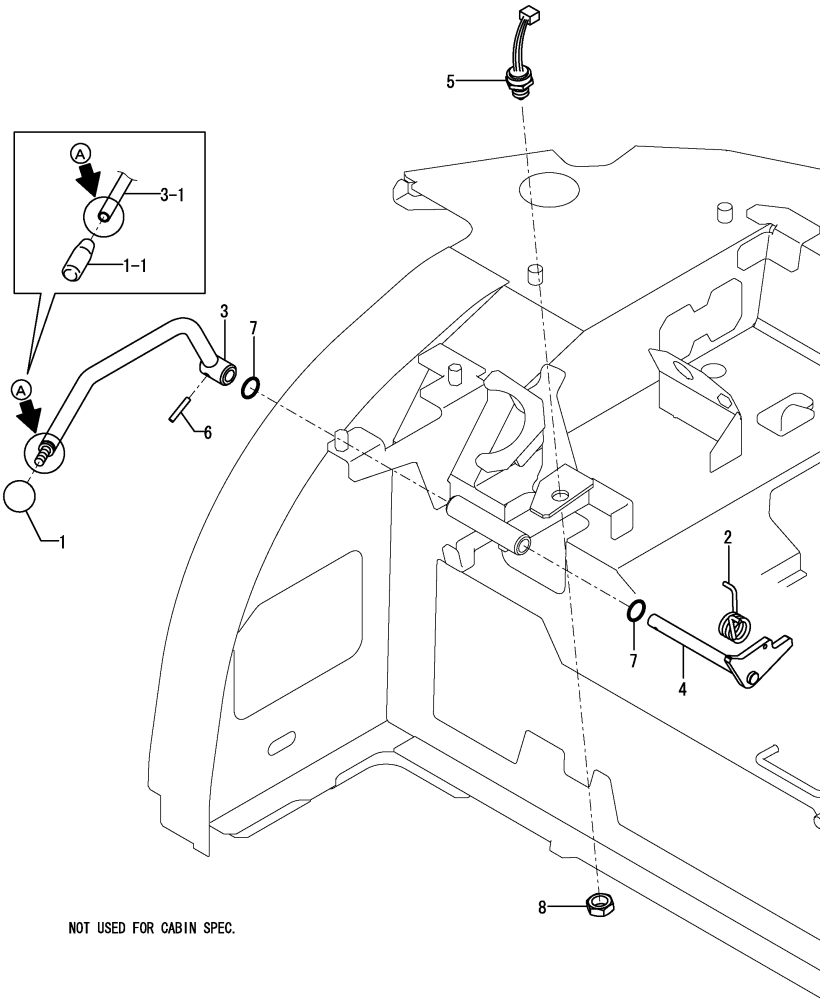
- (1)Iron crawler spec.
- (2)Rubber crawler spec.
- (3)Spare parts.



Fig.32. CONTROL EQUIPMENT(LOCK LEVER & STAND : RIGHT)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



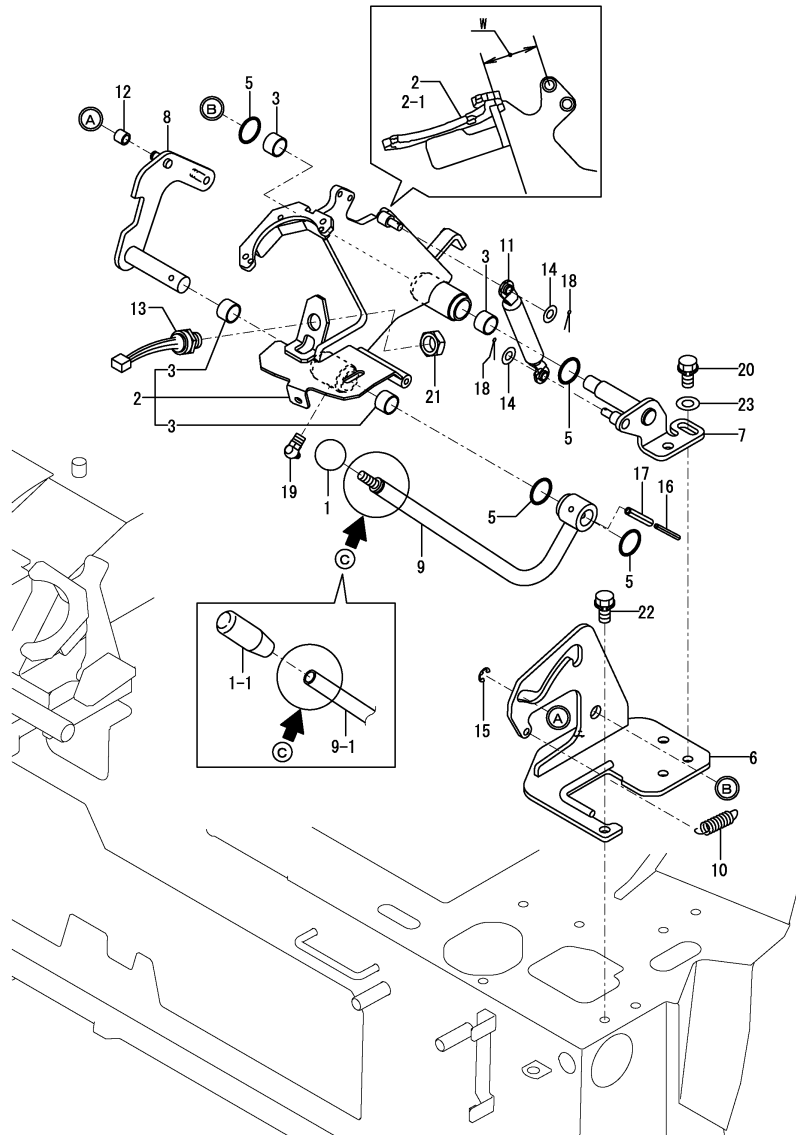
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP	1	1	1	1				
1-1	1	172A77-46050	GRIP	1	1	1	1				S
		(A=M53431) (B=M53431) (C=M53431) (D=M53431)									
2	1	172165-45970	SPRING	1	1	1	1				
3	1	172A47-46451	LEVER ASSY, LOCK	1	1	1	1				1
3-1	1	172A47-46452	LOCK LEVER ASSY,R	1	1	1	1				F 3
		(A=M53431) (B=M53431) (C=M53431) (D=M53431)									
4	1	172A47-46470	SHAFT ASSY, LEVER	1	1	1	1				
4-1	1	172A47-46471	SHAFT ASSY, LEVER	1	1	1	1				N
		(A=M53274) (B=M53274) (C=M53274) (D=M53274)									
5	1	194464-52190	SWITCH, SAFETY START	1	1	1	1				
6	1	22351-050032	PIN, SPRING 5.0X32	1	1	1	1				
7	1	24311-000210	O-RING, 1AP21.0	2	2	2	2				
8	1	26776-180002	NUT, LOCK M18	1	1	1	1				
9A	1	172183-03280	LABEL, LOCK	1	1	1	1				2

Remarks  
 (1)Please use this part with following label at the same time.  
 Ref.No.9A.  
 (2)Label is not illustrated.  
 (3)A=Ref.No.3:M10 screw, No.3-1:no screw.  
 Interchangeable by simultaneous replacement with Ref.No.1-1.

Fig.33. CONTROL EQUIPMENT(LOCK LEVER & STAND : LEFT)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP	1	1	1	1				
1-1	1	172A77-46050	GRIP	1	1	1	1				S
		(A=M53431) (B=M53431) (C=M53431) (D=M53431)									
2	1	172A78-46100	STAND ASSY, LEVER	1	1	1	1				
2-1	1	172A78-46101	STAND ASSY, LEVER	1	1	1	1				S 4
		(A=M53400) (B=M53400) (C=M53400) (D=M53400)									
3	2	172141-41370	BUSH	4	4	4	4				
5	1	172124-46200	O-RING	4	4	4	4				
6	1	172A47-46210	BASE ASSY, LEVER	1	1	1	1				
7	1	172A47-46230	PLATE ASSY, BASE	1	1	1	1				
8	1	172A47-46310	ROD ASSY, SPRING	1	1	1	1				
9	1	172A47-46343	LEVER ASSY, LOCK	1	1	1	1				1
9-1	1	172A47-46344	LEVER ASSY, LOCK	1	1	1	1				F 3
		(A=M53431) (B=M53431) (C=M53431) (D=M53431)									
10	1	172162-46690	SPRING	1	1	1	1				
10-1	1	172A69-46270	SPRING	1	1	1	1				N
		(A=M53285) (B=M53285) (C=M53285) (D=M53285)									
11	1	172455-46890	SPRING, GAS	1	1	1	1				
12	1	172165-47550	BUSH	1	1	1	1				
13	1	194464-52190	SWITCH, SAFETY START	1	1	1	1				
14	1	22137-080000	WASHER, 8	2	2	2	2				
15	1	22272-000070	RING, E- 7	1	1	1	1				
16	1	22351-035040	PIN, SPRING 3.5X40	1	1	1	1				
17	1	22351-060040	PIN, SPRING 6.0X40	1	1	1	1				
18	1	22417-200200	PIN, COTTER 2.0X20	2	2	2	2				
19	1	24761-050000	NIPPLE, GREASE C	1	1	1	1				
20	1	26013-100252	BOLT, M10X 25	2	2	2	2				
21	1	26776-180002	NUT, LOCK M18	1	1	1	1				
22	1	26013-100202	BOLT, M10X 20	3	3	3	3				
23	1	22137-100000	WASHER, 10	2	2	2	2				
24A	1	172183-03280	LABEL, LOCK	1	1	1	1				2

Remarks

(1) Please use this part with following label at the same time.

Ref.No.24A.

(2) Label is not illustrated.

(3) C=Ref.No.9:M10 screw, No.9-1:no screw.

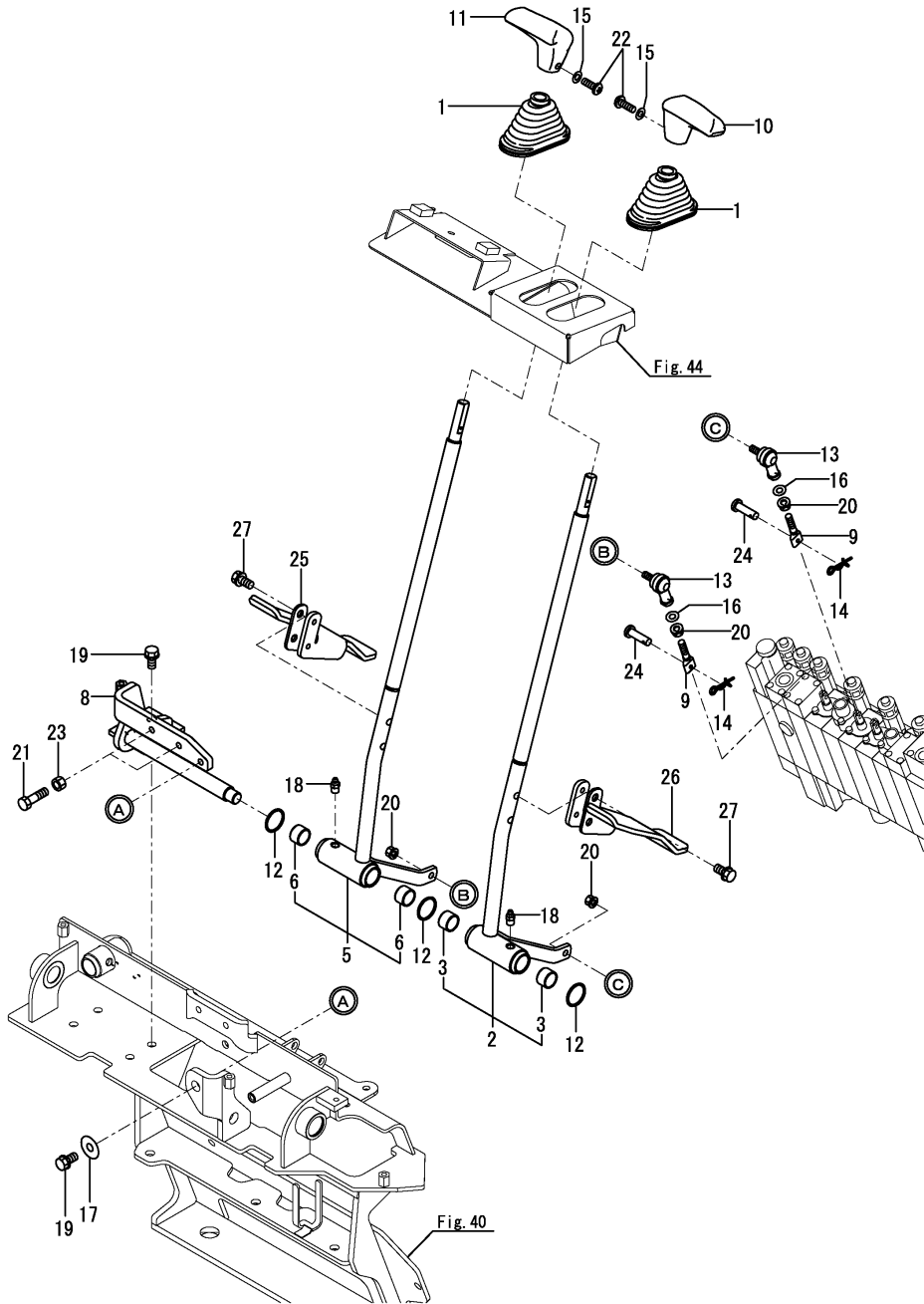
Interchangeable by simultaneous replacement with Ref.No.1-1.

(4) W=Ref.No.2:41mm, No.2-1:45mm.

Fig.34. CONTROL EQUIPMENT(TRAVEL LEVER)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

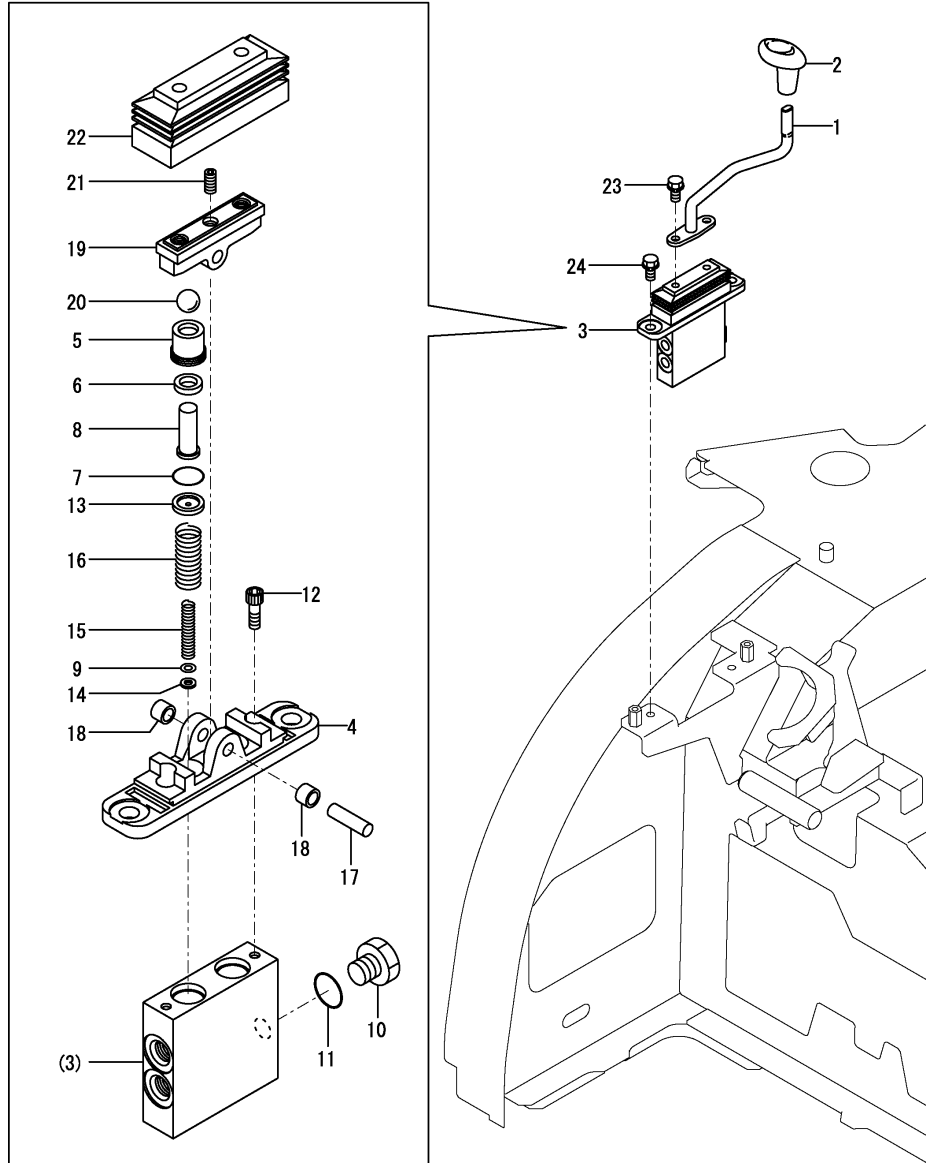


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOT	2	2	2	2				
2	1	172A47-45100	LEVER, TRUCK	1	1	1	1				
3	2	172141-41370	BUSH	2	2	2	2				
5	1	172A47-45150	LEVER, TRUCK	1	1	1	1				
6	2	172141-41370	BUSH	2	2	2	2				
8	1	172A47-45450	BRACKET, TRUCK	1	1	1	1				
8-1	1	172A47-45451	BRACKET ASSY,TRUCK	1	1	1	1				N
9	1	172146-45691	ROD, SPOOL	2	2	2	2				
10	1	172187-45870	GRIP, DRIVE	1	1	1	1				
11	1	172187-45880	GRIP, DRIVE	1	1	1	1				
12	1	172124-46200	O-RING	3	3	3	3				
13	1	172122-46590	ELBOW	2	2	2	2				
14	1	1C6281-52310	PIN, SNAP 6	2	2	2	2				
15	1	22117-040000	WASHER, 4	2	2	2	2				
16	1	22117-080000	WASHER, 8	2	2	2	2				
17	1	22157-100000	WASHER, 10	1	1	1	1				
18	1	24761-020000	NIPPLE, GREASE PT1/8	2	2	2	2				
19	1	26013-100252	BOLT, M10X 25	3	3	3	3				
20	1	26051-080002	NUT, M8	4	4	4	4				
21	1	26116-100354	BOLT, M10X 35 PLATED	2	2	2	2				
22	1	26587-040122	SCREW, M4X12	2	2	2	2				
23	1	26716-100002	NUT, M10	2	2	2	2				
24	1	933110-54100	PIN	2	2	2	2				
25	1	172A47-44200	PEDAL, TRUCK	1	1	1	1				
26	1	172A47-44230	PEDAL, TRUCK	1	1	1	1				
27	1	26106-080302	BOLT, M8X 30 PLATED	4	4	4	4				

Fig.35. CONTROL EQUIPMENT(BLADE LEVER)

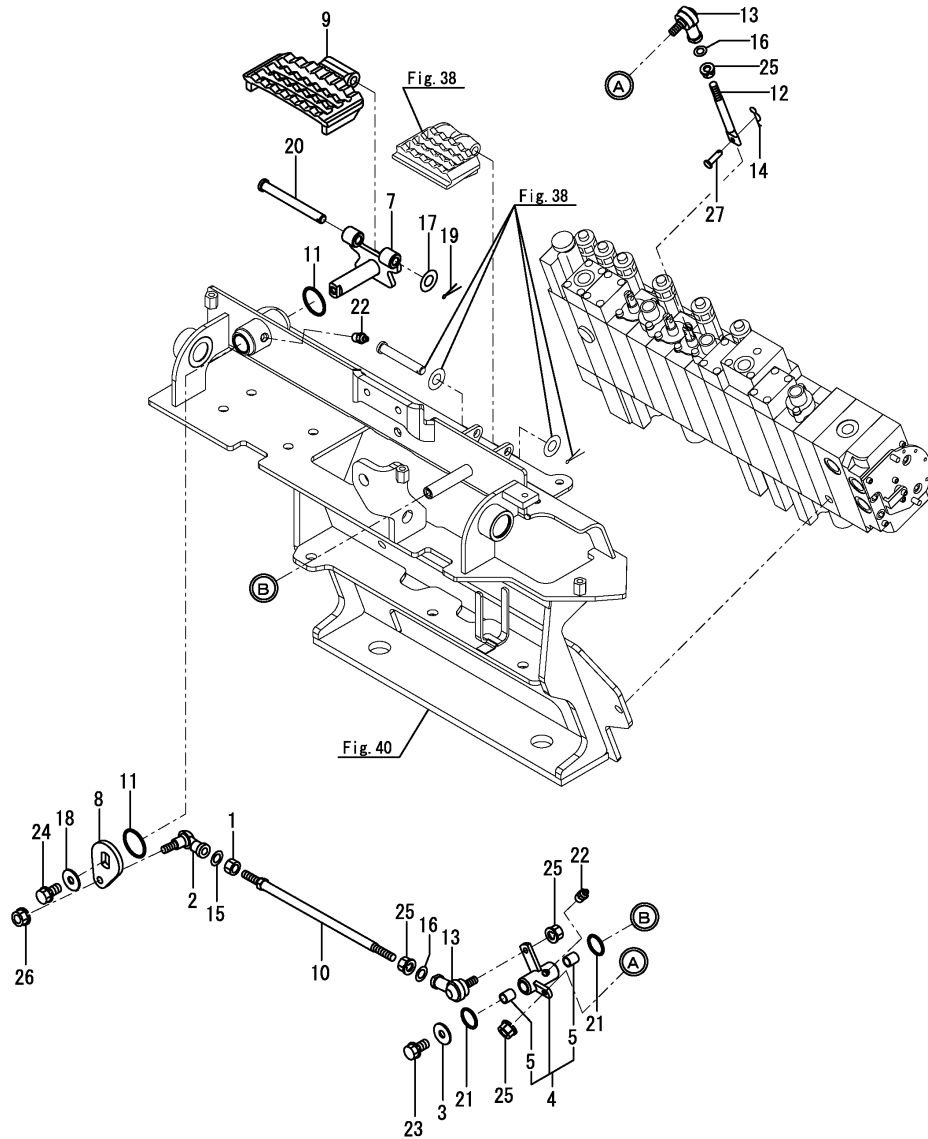
(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-45350	LEVER, BLADE	1	1	1	1				
2	1	172164-45970	GRIP, BLADE	1	1	1	1				
3	1	172A47-74700	VALVE ASSY, BLADE	1	1	1	1				
4	2	172A47-74710	COVER	1	1	1	1				
5	2	172A47-74720	PLUG	2	2	2	2				
6	2	172A47-74730	PACKING	2	2	2	2				
7	2	172A47-74740	O-RING	2	2	2	2				
8	2	172A47-74750	ROD, PUSH	2	2	2	2				
9	2	172A47-74760	SHIM	2	2	2	2				
10	2	172A47-74770	PLUG	1	1	1	1				
11	2	172A47-74780	O-RING	1	1	1	1				
12	2	172A47-74790	BOLT	2	2	2	2				
13	2	172A47-74800	SEAT, SPRING	2	2	2	2				
14	2	172A47-74810	WASHER	2	2	2	2				
15	2	172A47-74820	SPRING	2	2	2	2				
16	2	172A47-74830	SPRING	2	2	2	2				
17	2	172A47-74840	SHAFT, CAM	1	1	1	1				
18	2	172A47-74850	BUSH	2	2	2	2				
19	2	172A47-74860	CAM	1	1	1	1				
20	2	172A47-74870	BALL, STEEL	2	2	2	2				
21	2	172A47-74880	SCREW, SETTING	1	1	1	1				
22	2	172A47-74890	BELLOWS	1	1	1	1				
23	1	26013-080162	BOLT, M8X 16	2	2	2	2				
24	1	26013-080202	BOLT, M8X 20	2	2	2	2				

Fig.36. CONTROL EQUIPMENT(SWING PEDAL)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194200-37780	NUT, M8	1	1	1	1				
2	1	172734-41300	JOINT, BALL	1	1	1	1				
2-1	1	1E6740-64200	BALL, LINK	1	1	1	1				R
		(A=M53094)	(B=M53094)	(C=M53094)	(D=M53094)						
3	1	1A1040-43900	WASHER, SPRING	1	1	1	1				
4	1	172A47-45200	LINK ASSY, SWING	1	1	1	1				
5	2	172141-41360	BUSH	2	2	2	2				
7	1	172A47-45260	PIN ASSY, SWING	1	1	1	1				
8	1	172A47-45300	PLATE, SWING	1	1	1	1				
9	1	172A47-45430	PEDAL	1	1	1	1				
10	1	172142-45870	ROD	1	1	1	1				
11	1	172124-46200	O-RING	2	2	2	2				
12	1	172162-46210	ROD	1	1	1	1				
13	1	172122-46590	ELBOW	2	2	2	2				
14	1	1C6281-52310	PIN, SNAP 6	1	1	1	1				
15	1	22117-080000	WASHER, 8	1	1	1	1				
16	1	22117-080000	WASHER, 8	2	2	2	2				
17	1	22137-100000	WASHER, 10	1	1	1	1				
18	1	22157-080000	WASHER, 8	1	1	1	1				
19	1	22417-200200	PIN, COTTER 2.0X20	1	1	1	1				
20	1	22487-100900	PIN, H10X 90	1	1	1	1				
21	1	24311-000210	O-RING, 1AP21.0	2	2	2	2				
22	1	24761-020000	NIPPLE, GREASE PT1/8	2	2	2	2				
23	1	26013-080162	BOLT, M8X 16	1	1	1	1				
24	1	26013-080162	BOLT, M8X 16	1	1	1	1				
25	1	26051-080002	NUT, M8	4	4	4	4				
26	1	26051-080002	NUT, M8	1	1	1	1				
27	1	933110-54100	PIN	1	1	1	1				

Fig.37. CONTROL EQUIPMENT(LOW-HIGH PEDAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

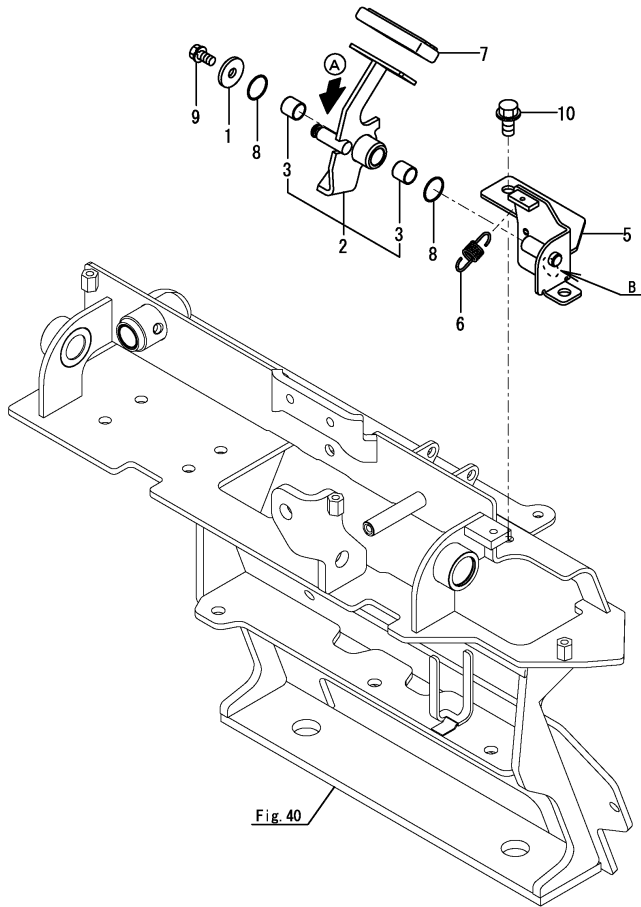
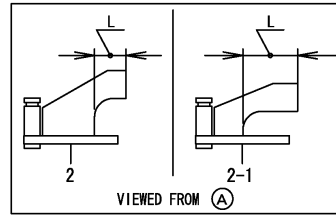


Fig. 40

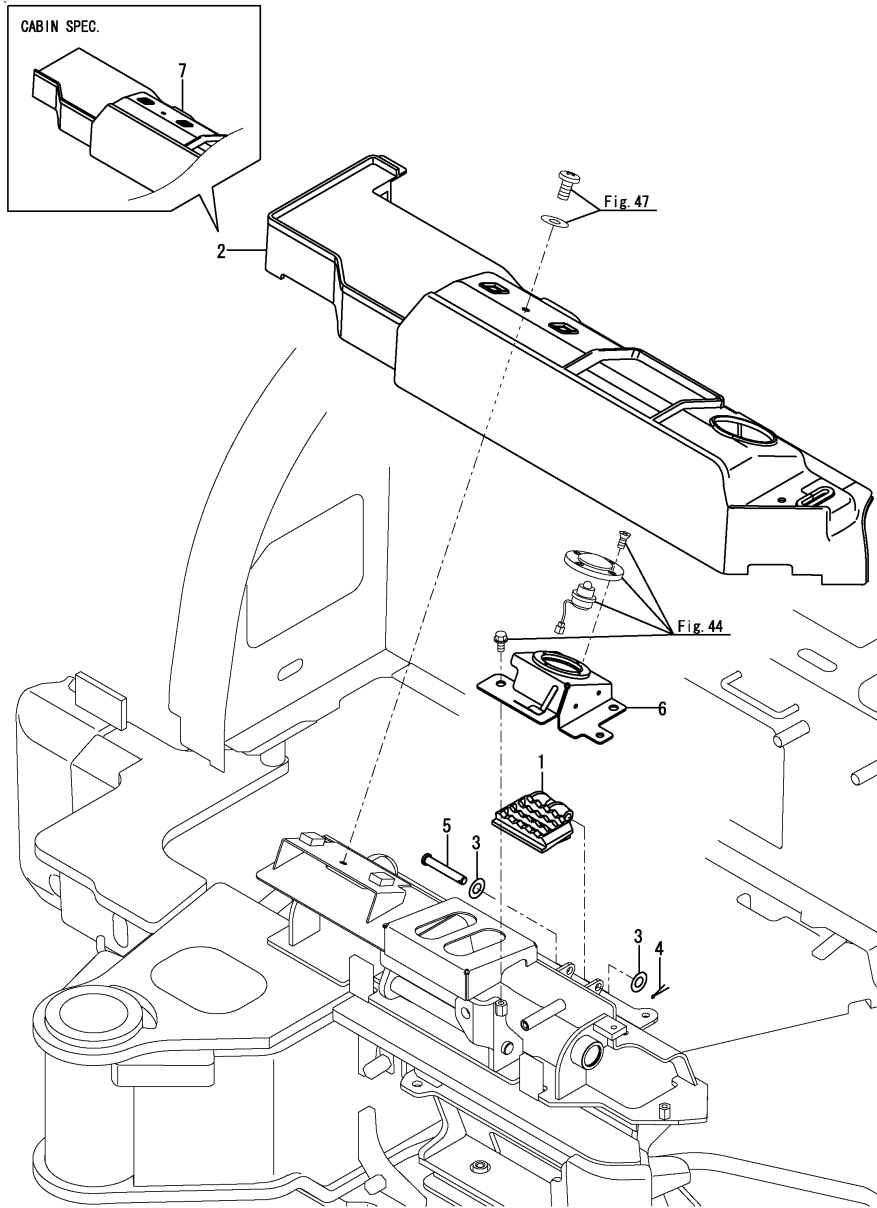
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A1040-43900	WASHER, SPRING	1	1	1	1				
2	1	172A47-45501	PEDAL, SPEED	1	1	1	1				1
2-1	1	172A47-45502	PEDAL ASSY, SPEED	1	1	1	1				S 1
3	2	172141-41360	BUSH	2	2	2	2				
5	1	172A47-45531	BRACKET	1	1	1	1				2
5-1	1	172A47-45532	BRACKET ASSY	1	1	1	1				S 2
6	1	172A47-45580	SPRING	1	1	1	1				
7	1	172458-45950	PAD, PEDAL	1	1	1	1				
8	1	24311-000210	O-RING, 1AP21.0	2	2	2	2				
9	1	26013-080162	BOLT, M8X 16	1	1	1	1				
10	1	26106-080162	BOLT, M8X 16 PLATED	2	2	2	2				

Remarks  
 (1)L=Ref.No.2:17mm, No.2-1:35mm.  
 (2)B part hole diameter=Ref.No.5:19mm, No.5-1:21mm.

Fig.38. CONTROL EQUIPMENT(P.T.O. PEDAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



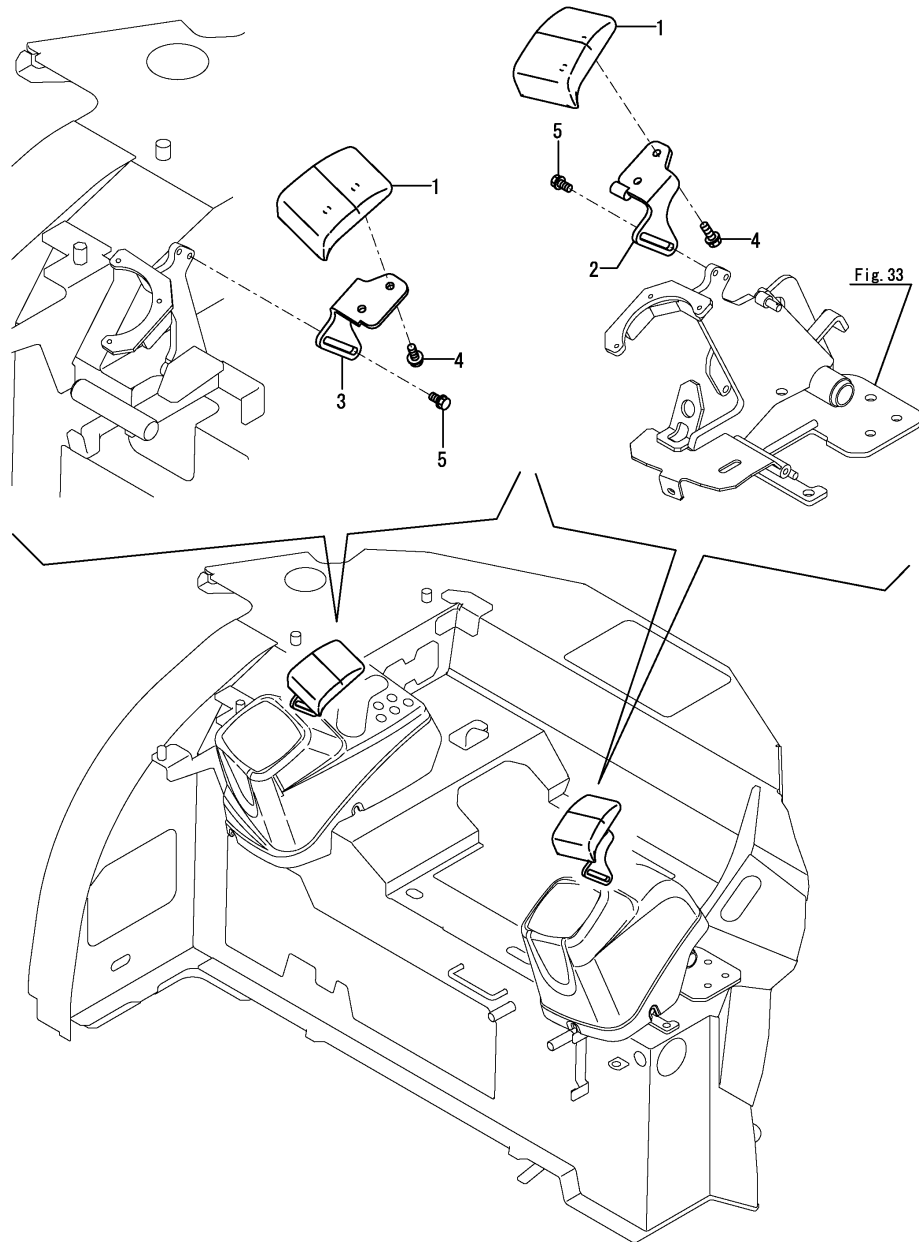
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-45420	PEDAL	1	1	1	1				
2	1	172A47-62501	MAT, FLOOR	1	1	1	1				1
3	1	22137-100000	WASHER, 10	2	2	2	2				
4	1	22417-200200	PIN, COTTER 2.0X20	1	1	1	1				
5	1	22487-100600	PIN, H10X 60	1	1	1	1				
6	1	172A47-62350	STEP ASSY, CONTROL	1	1	1	1				
7	1	172A46-62520	MAT, FLOOR	1	1	1	1				2

Remarks  
 (1)Canopy spec.  
 (2)Cabin spec.

Fig.39. ARMREST

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



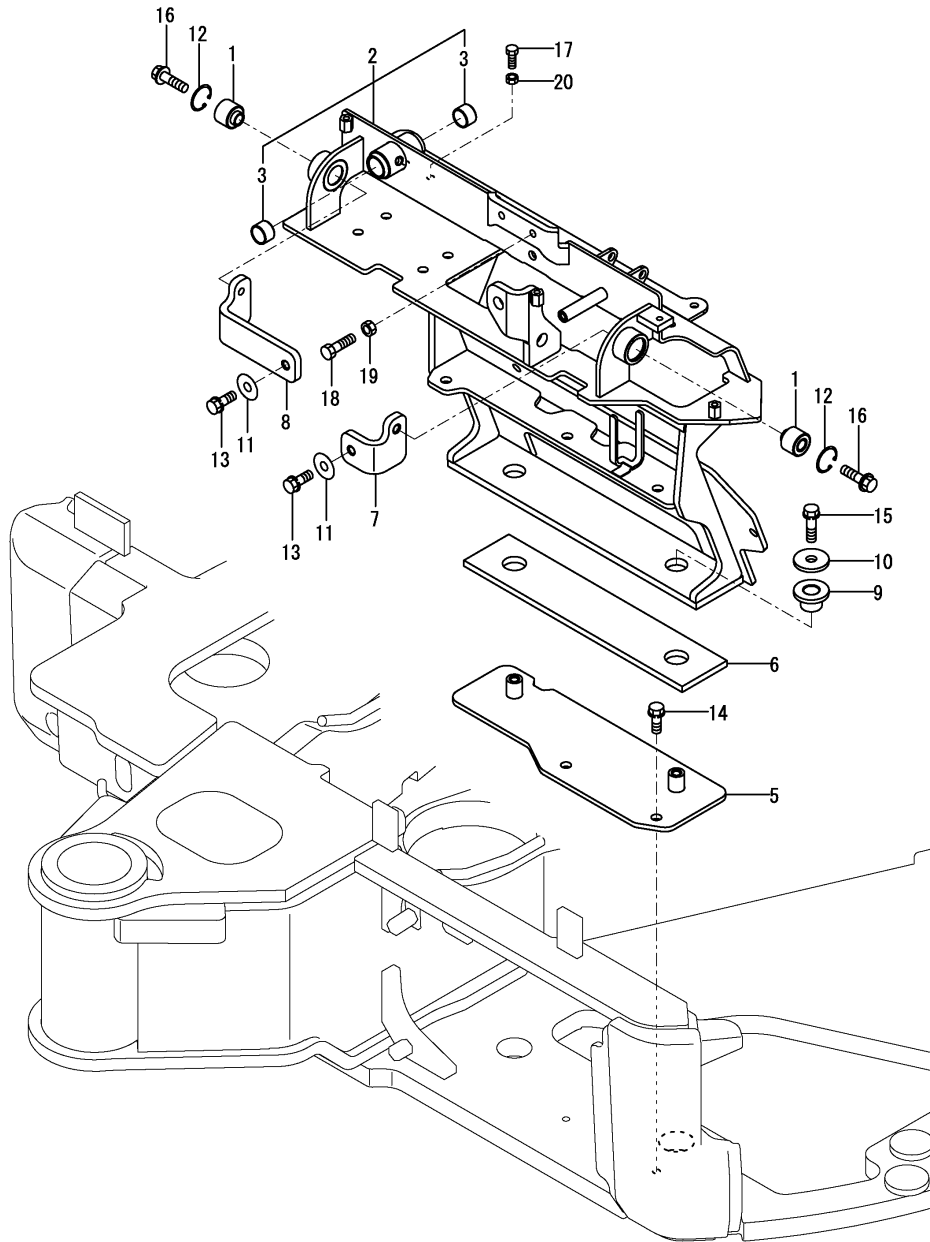
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172441-44320	ARMREST	2	2	2	2				
2	1	172A46-46500	GUIDE ASSY	1	1	1	1				
3	1	172A46-46530	PLATE, GUIDE	1	1	1	1				
4	1	172519-63240	BOLT	4	4	4	4				
5	1	172519-63240	BOLT	4	4	4	4				



Fig.40. CONTROL VALVE PLATE

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

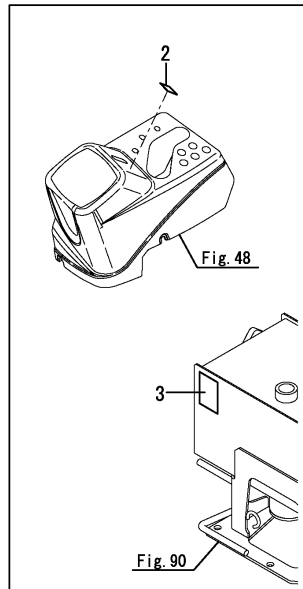
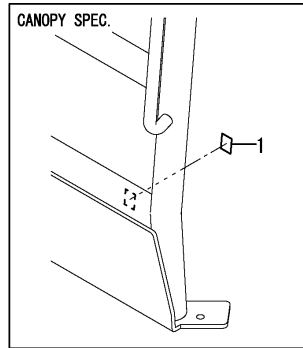
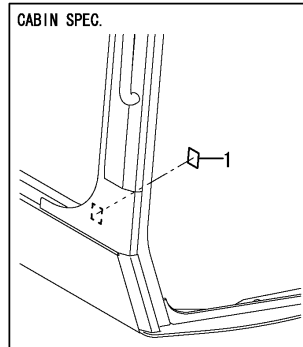
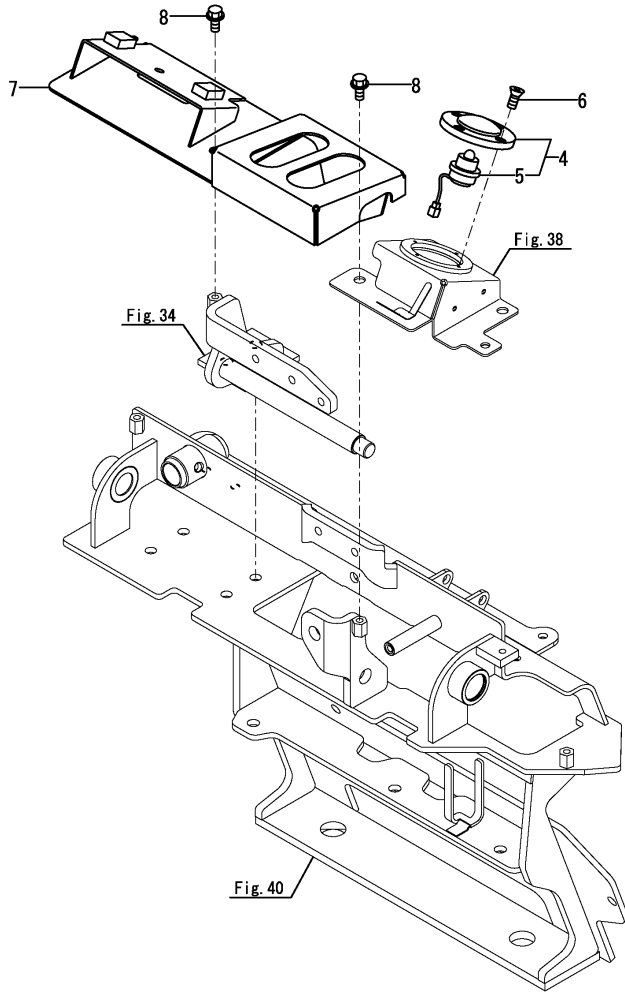


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172165-45490	CUSHION	2	2	2	2				
2	1	172A47-45601	MOUNT ASSY, LINK	1	1	1	1				
3	2	172141-41370	BUSH	2	2	2	2				
5	1	172A47-45800	BRACKET ASSY, DAMPER	1	1	1	1				
6	1	172A47-45840	PAD, ABSORBER	1	1	1	1				
7	1	172A47-45870	STAY, DAMPER	1	1	1	1				
8	1	172A47-45880	STAY, DAMPER	1	1	1	1				
9	1	172478-68870	GROMMET	2	2	2	2				
10	1	172478-68890	WASHER	2	2	2	2				
11	1	22157-100000	WASHER, 10	2	2	2	2				
12	1	22252-000280	RING, 28	2	2	2	2				
13	1	26013-100252	BOLT, M10X 25	2	2	2	2				
14	1	26013-100252	BOLT, M10X 25	2	2	2	2				
15	1	26013-100352	BOLT, M10X 35	2	2	2	2				
16	1	26106-100352	BOLT, M10X 35 PLATED	2	2	2	2				
17	1	26116-080204	BOLT, M8X 20 PLATED	2	2	2	2				
18	1	26116-100354	BOLT, M10X 35 PLATED	2	2	2	2				
18-1	1	26116-100304	BOLT, M10X 30 PLATED	2	2	2	2				N
(A=M53298)				(B=M53298)		(C=M53298)		(D=M53298)			
19	1	26716-100002	NUT, M10	2	2	2	2				
20	1	26756-080002	NUT, LOCK M8	2	2	2	2				

Fig.44. COVER(LINK : P.T.O. SWITCH)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

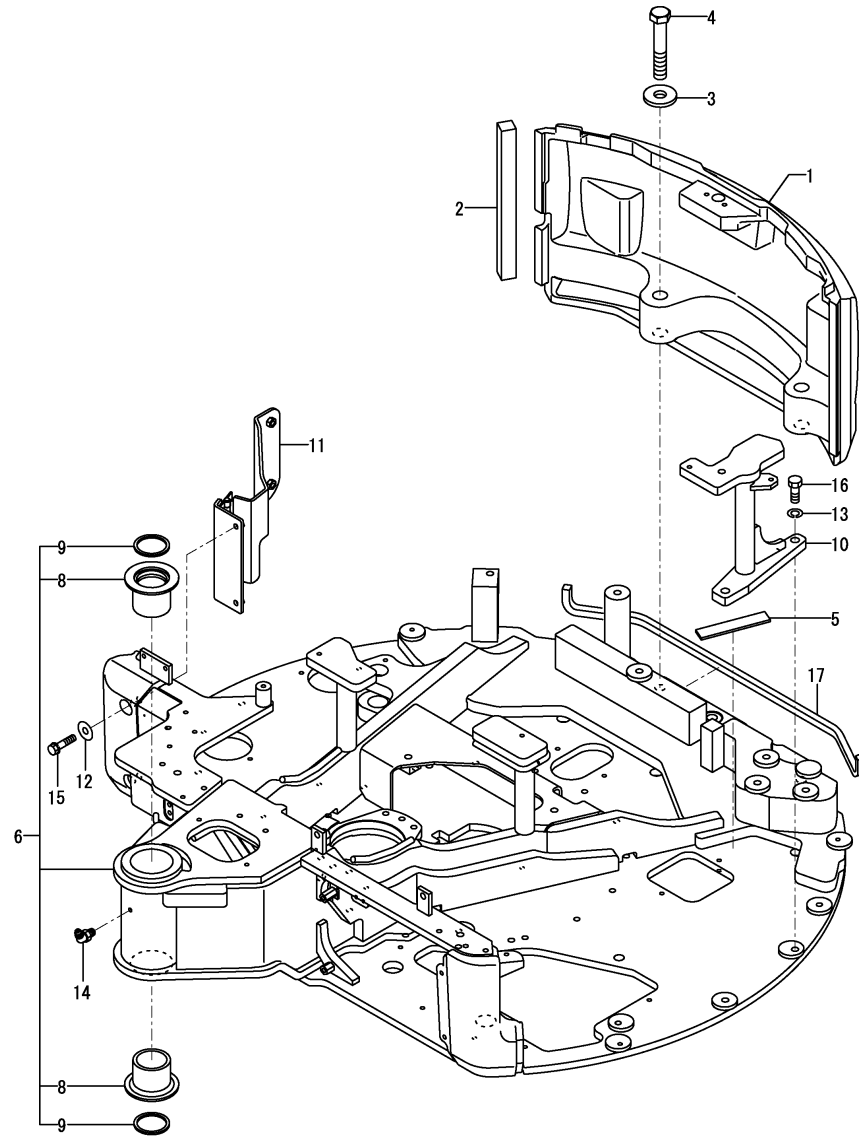


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-03250	LABEL, PTO FOOT	1	1	1	1				
2	1	172A47-03260	LABEL, PTO SWITCH	1	1	1	1				
3	1	172A47-03270	LABEL, PTO SELECT	1	1	1	1				
4	1	172A46-17300	SWITCH ASSY, PTO	1	1	1	1				
5	2	172A46-17310	SWITCH, SAFETY	1	1	1	1				
6	1	22869-400160	SCREW, 4X16	4	4	4	4				
7	1	172A47-62200	STEP ASSY, CONTROL	1	1	1	1				
7-1	1	172A47-62201	STEP ASSY, CONTROL	1	1	1	1				N
		(A=M53467) (B=M53467) (C=M53467) (D=M53467)									
8	1	26106-080162	BOLT, M8X 16 PLATED	5	5	5	5				

Fig.41. TURNING FRAME

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-53310	WEIGHT, COUNTER	1	1	1	1				
2	1	172A47-53320	SEAL, WEIGHT	1	1	1	1				
3	1	172187-53321	WASHER	2	2	2	2				
4	1	172455-53331	BOLT	2	2	2	2				
5	1	172458-14380	PLATE, RUBBER	1	1	1	1				
6	1	172A44-54090	FRAME ASSY, TURNING	1	1	1	1				1
8	2	172168-54750	BUSH 60X70	2	2	2	2				
9	2	172168-54760	SEAL, DUST	2	2	2	2				
10	1	172A46-54530	BOSS ASSY	1	1	1	1				
11	1	172A47-65911	HINGE ASSY	1	1	1	1				
12	1	22157-100000	WASHER, 10	2	2	2	2				
12-1	1	22137-100000	WASHER, 10	2	2	2	2				N
				(A=M53001)	(B=M53001)	(C=M53001)	(D=M53001)				
13	1	22217-160000	WASHER, SPRING 16	2	2	2	2				
14	1	24761-050000	NIPPLE, GREASE C	1	1	1	1				
15	1	26013-100402	BOLT, M10X 40	2	2	2	2				
16	1	26116-160402	BOLT, M16X 40 PLATED	2	2	2	2				
17	1	172458-54750	SEAL	1	1	1	1				
18A	1	172156-03740	LABEL, GREASE	1	1	1	1				2

Remarks

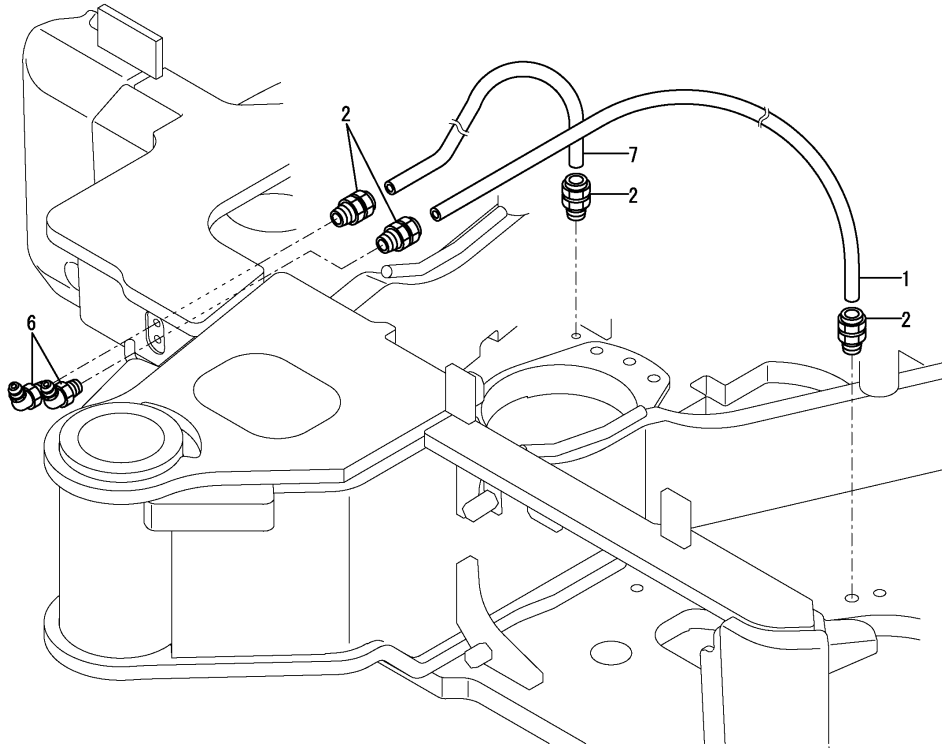
- (1) Please use this part with following label at the same time.  
Ref.No.18A.
- (2) Label is not illustrated.

Fig.42. GREASING

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-77800	HOSE	1	1	1	1				
2	1	172A47-77820	JOINT, GREASE	4	4	4	4				
6	1	24761-040000	NIPPLE, GREASE B	2	2	2	2				
7	1	172A52-77800	HOSE	1	1	1	1				




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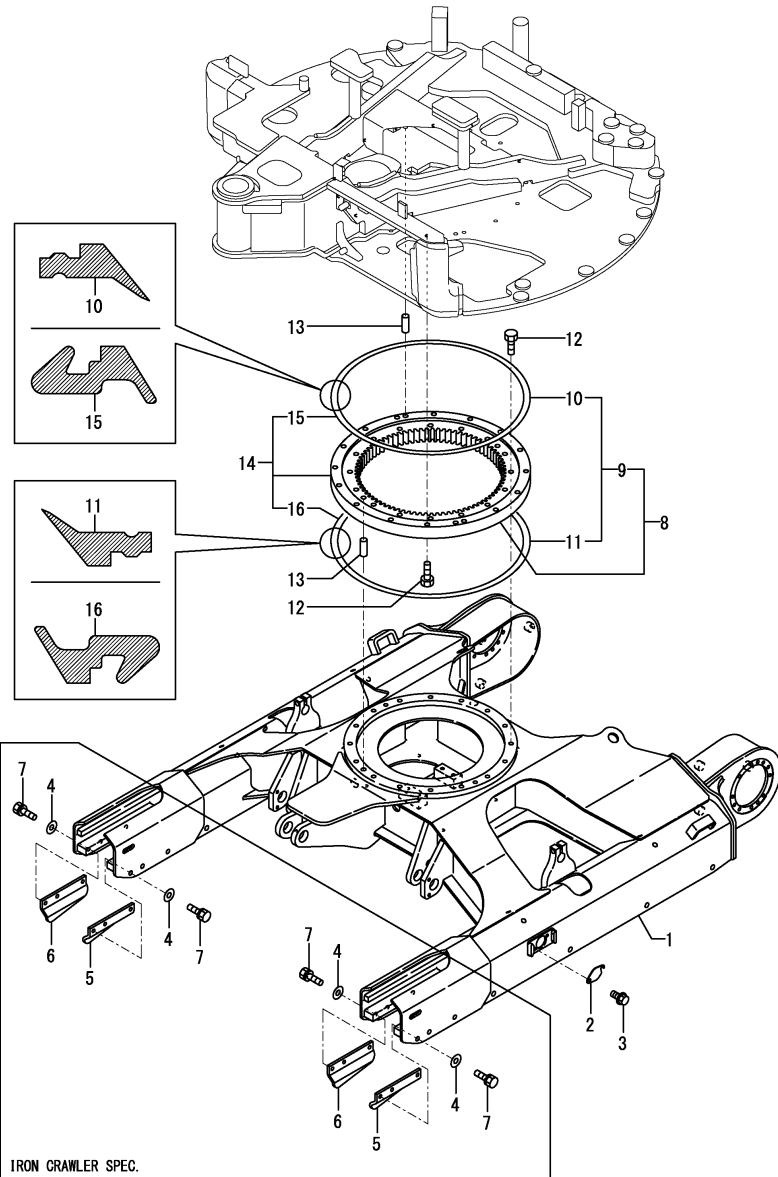
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Fig.43. TRACK FRAME & TURNING BEARING

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

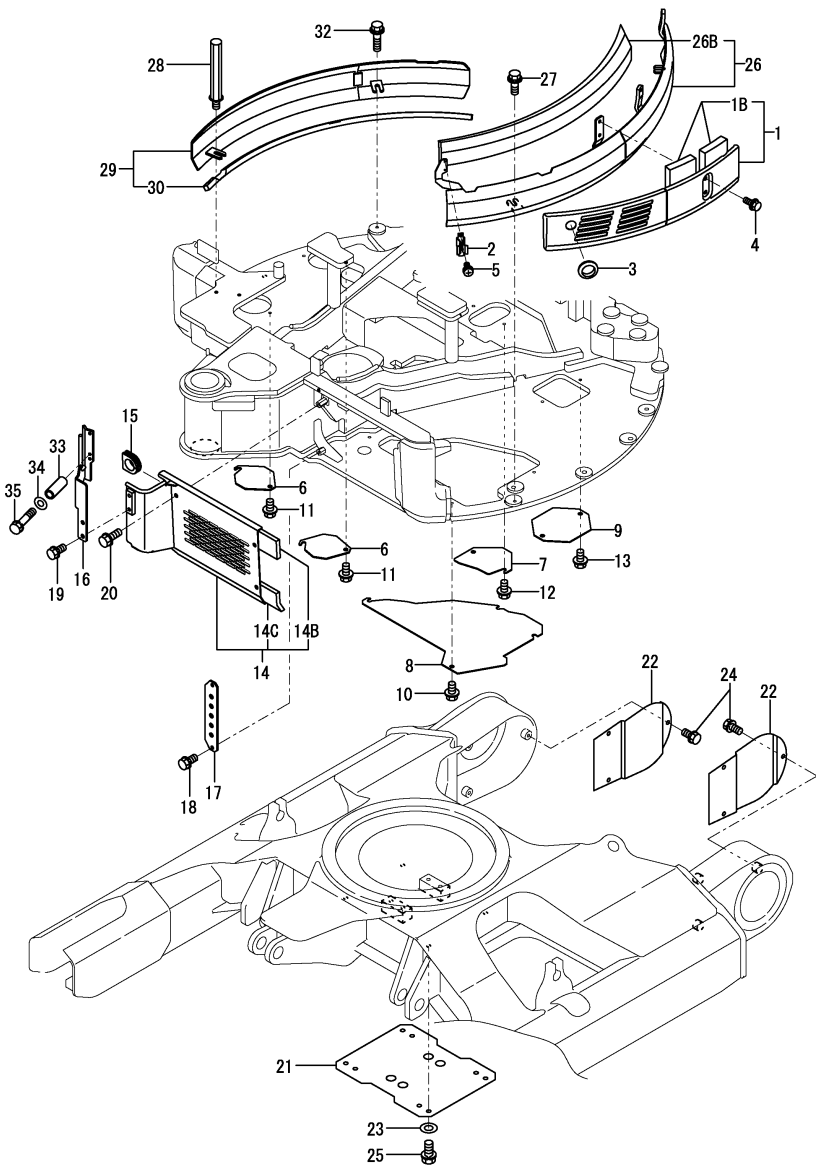
(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-50101	FRAME ASSY, LOWER	1	1	1	1				
2	1	172458-50480-2	COVER, FRAME	2	2	2	2				
3	1	26106-100122	BOLT, M10X 12 PLATED	4	4	4	4				
4	1	172730-05250	WASHER	12	12	12	12				1
5	1	172458-50800-2	PLATE, GUARD	2	2	2	2				1
6	1	172458-50810-2	PLATE, GUARD	2	2	2	2				1
7	1	26013-120252	BOLT, SPRING M12X 25	12	12	12	12				1
8	1	172458-57600-2	BEARING, TURNING	1	1	1	1				Z 2
		(A=M54947)	(B=M54947)	(C=M54947)	(D=M54947)						
9	2	172142-57610	SEAL SET	1	1	1	1				
10	3	172122-57630	SEAL, SWING	1	1	1	1				
11	3	172122-57640	SEAL, SWING	1	1	1	1				
12	1	172A46-57610	BOLT	32	32	32	32				
13	1	172122-57620	PIN, PARALLEL	4	4	4	4				
14	1	172458-57601-2	BEARING, SWING	1	1	1	1				W
		(A=M54947)	(B=M54947)	(C=M54947)	(D=M54947)						
15	2	172B03-57630	SEAL, A	1	1	1	1				
16	2	172B03-57640	SEAL, B	1	1	1	1				

Remarks  
 (1)Iron crawler spec.  
 (2)Interchangeable by Fig.14.  
 seal is not compatible.

Fig.45. COVER(FRAME)



(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

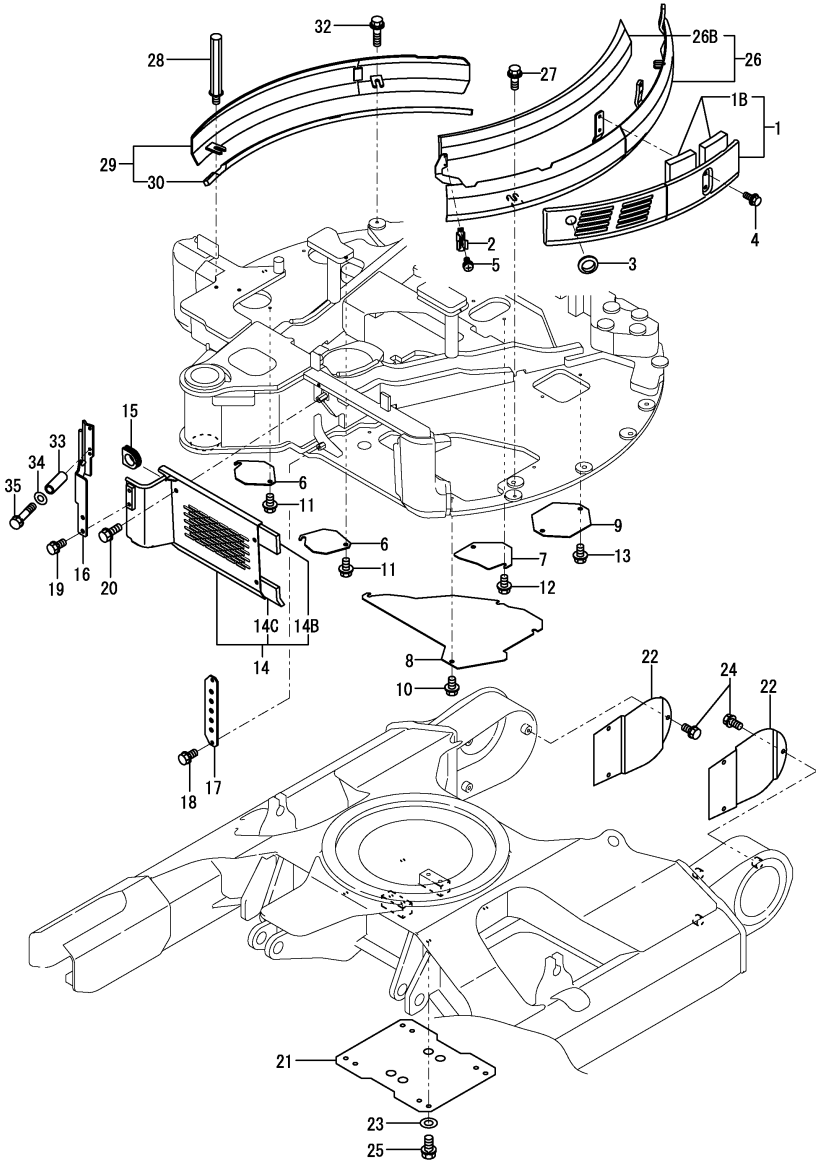
(D)=VIO27-5B(SG)  
(E)=  
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-61220-2	COVER ASSY, MULTI	1	1	1	1				
1-1	1	172A77-61220-2	COVER ASSY, MULTI	1	1	1	1				N
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
1-2	1	172A77-61240-1	COVER ASSY, MULTI	1	1	1	1				N
		(A=M53513) (B=M53513) (C=M53513) (D=M53513)									
1-3	1	172A77-61240-Y	COVER ASSY, MULTI	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
1B	2	172A77-61230	SPONGE	2	2	2	2				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
1B-1	2	172A77-61250	SPONGE	2	2	2	2				N
		(A=M53513) (B=M53513) (C=M53513) (D=M53513)									
2	1	198220-61480	HOLDER, ROD	1	1	1	1				
3	1	172137-66230	GROMMET	1	1	1	1				
4	1	26014-080162	BOLT, M8X 16	2	2	2	2				
5	1	26023-050102	SCREW, M5X10	2	2	2	2				
6	1	172A47-61420	COVER, OIL SUMP	2	2	2	2				
7	1	172A46-61500	COVER, OIL SUMP	1	1	1	1				
8	1	172A46-61510	COVER, VALVE STAND	1	1	1	1				
9	1	172A46-61580	COVER, PUMP	1	1	1	1				
10	1	26106-100162	BOLT, M10X 16 PLATED	4	4	4	4				
11	1	26106-100162	BOLT, M10X 16 PLATED	4	4	4	4				
12	1	26106-100162	BOLT, M10X 16 PLATED	2	2	2	2				
13	1	26106-100162	BOLT, M10X 16 PLATED	2	2	2	2				
14	1	172A46-61181	COVER	1	1	1	1				
14-1	1	172A77-61180	COVER	1	1	1	1				N
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
14-2	1	172A77-61270	COVER ASSY	1	1	1	1				N
		(A=M53515) (B=M53515) (C=M53515) (D=M53515)									
14B	2	172A77-61190	SPONGE	1	1	1	1				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
14B-1	2	172A77-61280	SPONGE	1	1	1	1				N
		(A=M53515) (B=M53515) (C=M53515) (D=M53515)									
14C	2	172A77-61200	SPONGE	1	1	1	1				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
14C-1	2	172A77-61290	SPONGE	1	1	1	1				N
		(A=M53515) (B=M53515) (C=M53515) (D=M53515)									
15	1	172165-62800	GROMMET	1	1	1	1				
16	1	172A46-76730	GUIDE ASSY, HOSE	1	1	1	1				
17	1	172A46-79210	PLATE ASSY, HOSE	1	1	1	1				
18	1	26013-100202	BOLT, M10X 20	2	2	2	2				
19	1	26013-100202	BOLT, M10X 20	2	2	2	2				
20	1	26014-100162	BOLT, M10X 16	3	3	3	3				
21	1	172141-50762-3	COVER	1	1	1	1				
21-1	1	172141-50763-1	COVER	1	1	1	1				N
		(A=M53431) (B=M53431) (C=M53431) (D=M53431)									
22	1	172457-61100-2	COVER, TRAVEL	2	2	2	2				
23	1	22137-120000	WASHER, 12	4	4	4	4				
24	1	26013-100202	BOLT, M10X 20	6	6	6	6				
25	1	26013-120252	BOLT, M12X 25	4	4	4	4				
26	1	172A46-61010	GUARD, FRAME	1	1	1	1				1
26-1	1	172A77-61010	GUARD ASSY, FRAME	1	1	1	1				N 1

Remarks

- (1)Please use this part with following label at the same time. Ref.No.36A.
- (2)Please use this part with following label at the same time. Ref.No.37A.
- (3)Label is not illustrated.

Fig.45. COVER(FRAME)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
26B	2	(A=M53001) 172A77-61020	(B=M53001) SPONGE	(C=M53001)	(D=M53001)								
		(A=M53001)	(B=M53001)	(C=M53001)	(D=M53001)	1	1	1	1				W
27	1	26014-100252	BOLT, M10X 25					2	2	2	2		
28	1	172A46-61050	BOLT ASSY					1	1	1	1		
29	1	172A46-61100	GUARD, FRAME					1	1	1	1		2
30	2	172458-54750	SEAL					1	1	1	1		
32	1	26014-100252	BOLT, M10X 25					1	1	1	1		
33	1	172527-13320	COLLAR					1	1	1	1		
34	1	22137-080000	WASHER, 8					1	1	1	1		
35	1	26013-080452	BOLT, M8X 45					1	1	1	1		
36A	1	172437-03352	LABEL, CYLINDER					1	1	1	1		3
37A	1	172437-03352	LABEL, CYLINDER					1	1	1	1		3

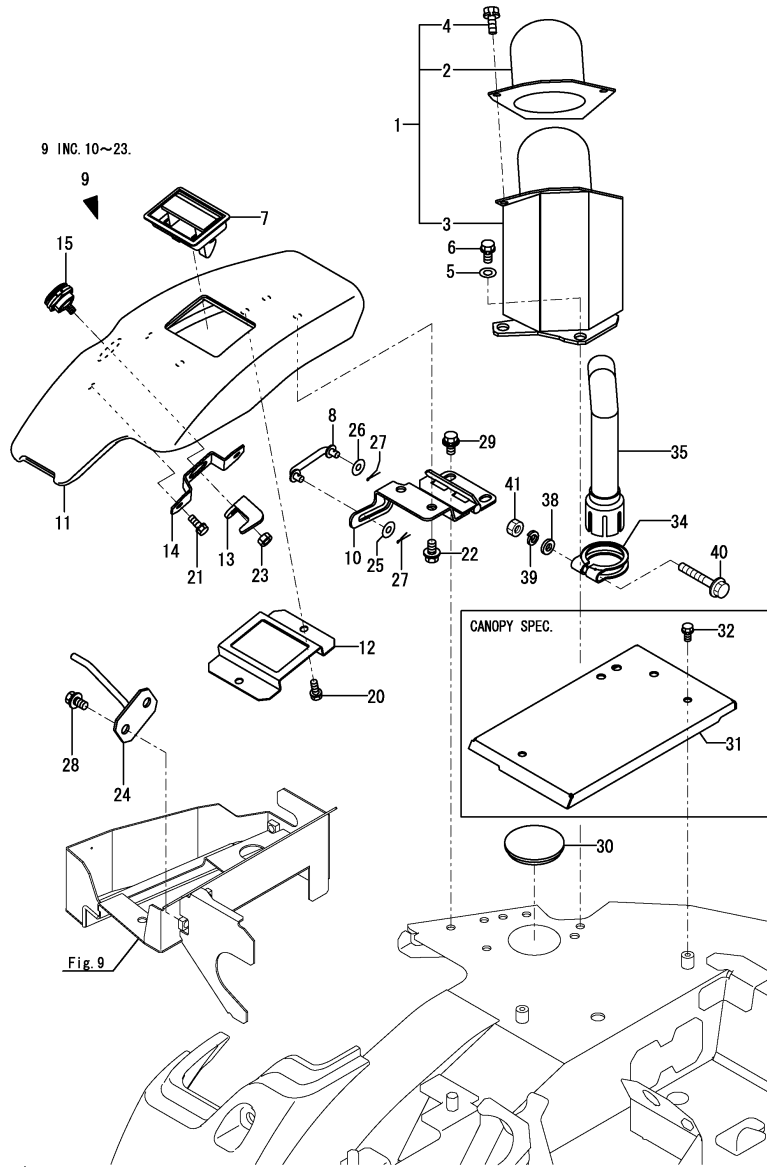
Remarks

- (1)Please use this part with following label at the same time.  
Ref.No.36A.
- (2)Please use this part with following label at the same time.  
Ref.No.37A.
- (3)Label is not illustrated.

Fig.46. COVER(BONNET)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-61431	COVER ASSY, TAIL	1	1	1	1				2
2	2	172A46-61381	COVER ASSY, TAIL	1	1	1	1				
3	2	172A46-61451	COVER ASSY, TAIL	1	1	1	1				
4	2	26013-080162	BOLT, M8X 16	2	2	2	2				
5	1	22137-100000	WASHER, 10	2	2	2	2				
6	1	26013-100202	BOLT, M10X 20	2	2	2	2				
7	1	172187-61421	HANDLE, LOCK	1	1	1	1				
8	1	172A46-61562	ROD ASSY, STOPPER	1	1	1	1				
9	1	172A46-61850	COVER	1	1	1	1				
9-1	1	172A77-61810	COVER ASSY	1	1	1	1				S
		(A=M54001)	(B=M54001)	(C=M54001)	(D=M54001)						
10	2	172A46-61531	HINGE, COVER	1	1	1	1				
11	2	172A46-61860	COVER	1	1	1	1				
11-1	2	172A77-61820	COVER	1	1	1	1				S
		(A=M54001)	(B=M54001)	(C=M54001)	(D=M54001)						
12	2	172A46-61940	STAY, CATCH	1	1	1	1				
13	2	172A46-61951	STAY, KEY	1	1	1	1				
14	2	172A46-61960	PLATE, LOCK	1	1	1	1				
15	2	172164-66170	KEY ASSY, CYLINDER	1	1	1	1				
20	2	26013-080122	BOLT, M8X 12	2	2	2	2				
21	2	26013-080122	BOLT, M8X 12	2	2	2	2				
22	2	26014-100162	BOLT, M10X 16	2	2	2	2				
23	2	26347-100002	NUT, M10	1	1	1	1				
24	1	172A46-61970	BAR ASSY, CATCH	1	1	1	1				
25	1	1A1380-62160	WASHER	1	1	1	1				
26	1	22137-080000	WASHER, 8	1	1	1	1				
27	1	22417-200200	PIN, COTTER 2.0X20	2	2	2	2				
28	1	26014-100202	BOLT, M10X 20	2	2	2	2				
29	1	26014-100252	BOLT, M10X 25	2	2	2	2				
30	1	172730-61890	CAP, ENGINE COVER	1	1	1	1				
31	1	172A46-64020	COVER, SEAT MOUNT	1	1	1	1				1
32	1	26013-080162	BOLT, M8X 16	3	3	3	3				1
33A	1	172437-03422	LABEL, MUFFLER	1	1	1	1				3
34	1	172A77-11310	CLAMP	1	1	1	1				
35	1	172A77-11350	PIPE ASSY, EXHAUST	1	1	1	1				
38	1	22117-100000	WASHER, 10	1	1	1	1				
39	1	22217-100000	WASHER, SPRING 10	1	1	1	1				
40	1	26106-100652	BOLT, M10X 65 PLATED	1	1	1	1				
41	1	26706-100002	NUT, M10	1	1	1	1				

Remarks

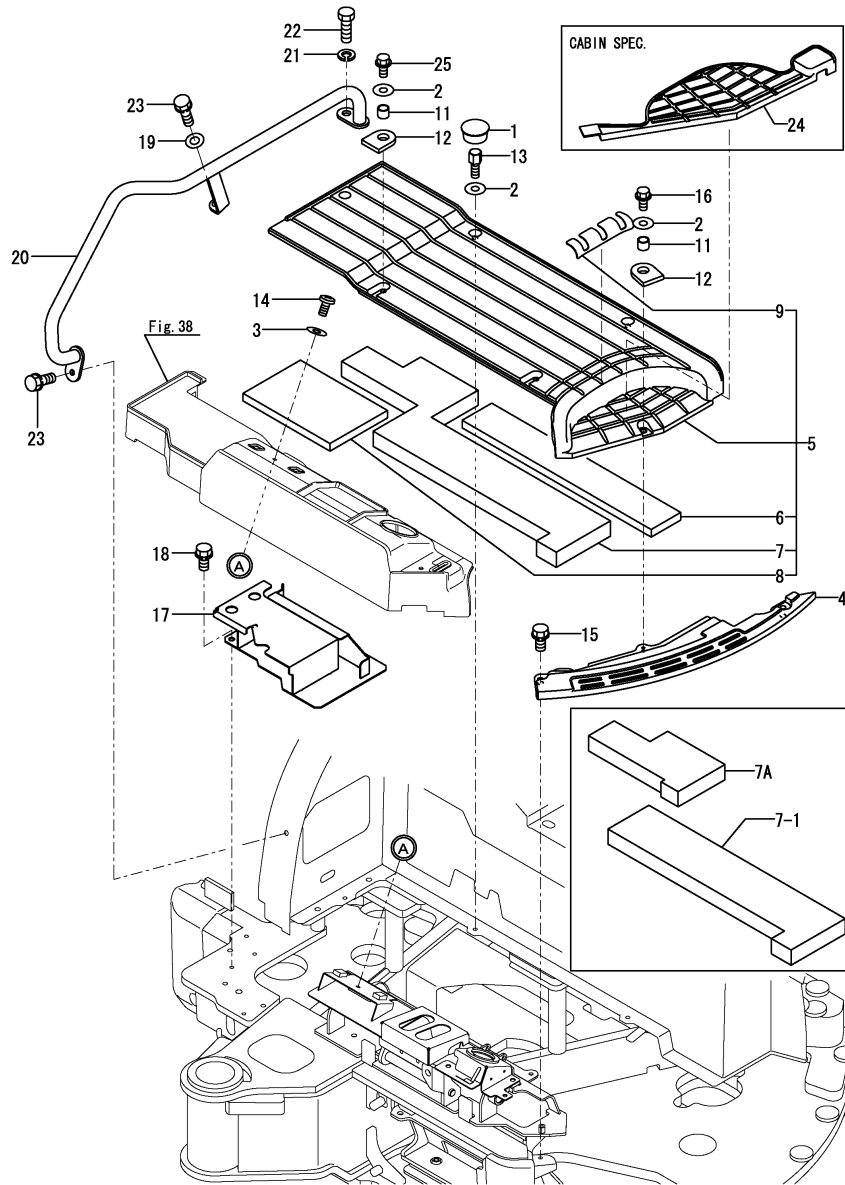
- (1)Canopy spec.
- (2)Please use this part with following label at the same time.  
Ref.No.33A.
- (3)Label is not illustrated.



Fig.47. STEP & FLOOR MAT

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-62150	CAP, CLIP	3	3	3	3				
2	1	1A1380-62160	WASHER	6	6	6	6				
3	1	172458-62430	WASHER	2	2	2	2				
4	1	172A47-62520	STEP, NON SLIP	1	1	1	1				
5	1	172A47-62550	STEP ASSY	1	1	1	1				
6	2	172A47-62261	SPONGE	1	1	1	1				
7	2	172A47-62450	SPONGE	1	1	1	1				
7-1	2	172A47-62451	SPONGE	1	1	1	1			S	3
		(A=M53060) (B=M53060) (C=M53060) (D=M53060)									
7A	2	172A47-62470	SPONGE	1	1	1	1				W
		(A=M53060) (B=M53060) (C=M53060) (D=M53060)									
8	2	172A47-62460	SPONGE	1	1	1	1				
9	2	172A47-62530	SHEET	1	1	1	1				
11	1	172A47-62570	COLLAR	3	3	3	3				
12	1	172A47-62580	PAD, ABSORBER	3	3	3	3				
13	1	172A47-62660	BOLT	3	3	3	3				
14	1	172137-69850	SCREW	2	2	2	2				
15	1	26013-100252	BOLT, M10X 25	2	2	2	2				
16	1	26106-080202	BOLT, M8X 20 PLATED	3	3	3	3				
16-1	1	26106-080202	BOLT, M8X 20 PLATED	1	1	1	1				K
		(A=M53398) (B=M53398) (C=M53398) (D=M53398)									
17	1	172A46-62100	STEP ASSY	1	1	1	1				
18	1	26013-100202	BOLT, M10X 20	2	2	2	2				
19	1	22137-100000	WASHER, 10	1	1	1	1				1
20	1	172A46-64852	HANDRAIL ASSY	1	1	1	1				1
21	1	22217-160000	WASHER, SPRING 16	1	1	1	1				1
22	1	26116-160352	BOLT, M16X 35 PLATED	1	1	1	1				1
23	1	26013-100202	BOLT, M10X 20	2	2	2	2				1
24	1	172A47-62410	MAT, FLOOR	1	1	1	1				2
25	1	26106-080202	BOLT, M8X 20 PLATED	2	2	2	2				
25-1	1	26106-080252	BOLT, M8X 25 PLATED	2	2	2	2				N
		(A=M53398) (B=M53398) (C=M53398) (D=M53398)									

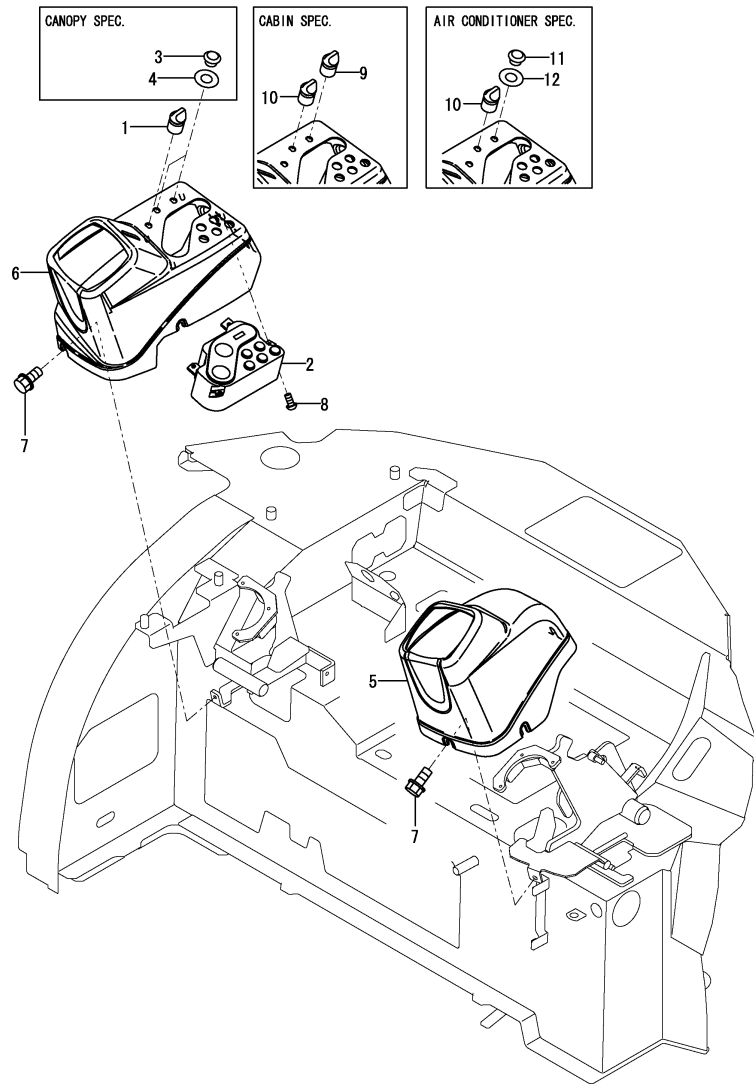
Remarks

- (1)Canopy spec.
- (2)Cabin spec.
- (3)Interchangeable by simultaneous replacement with Ref.No.7A.

Fig.48. INSTRUMENT PANEL

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



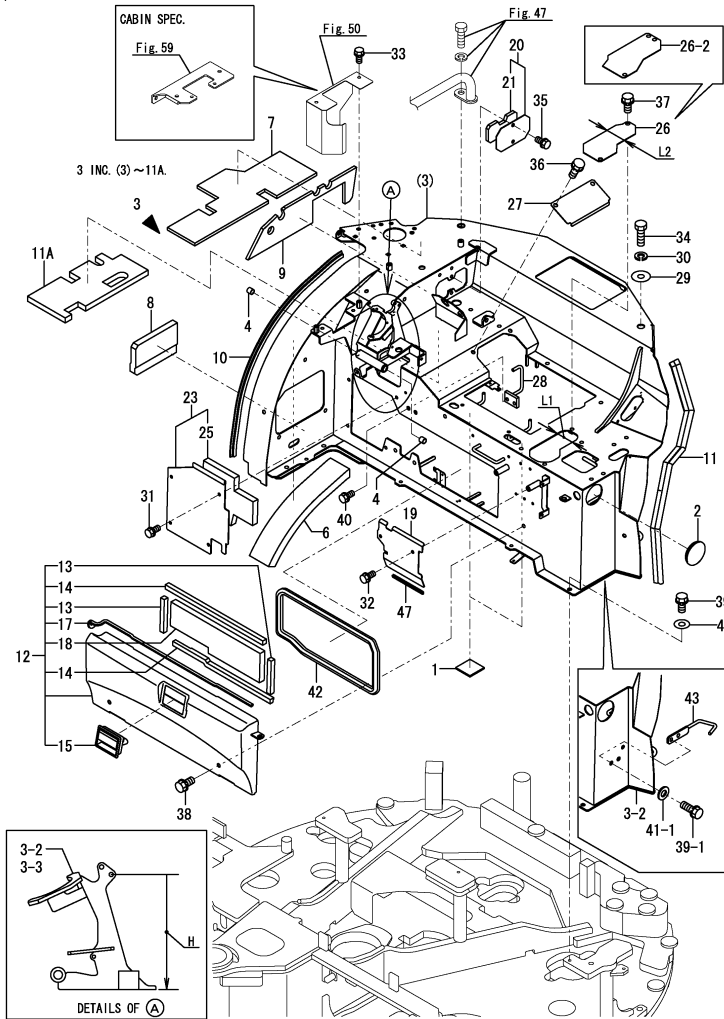
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-17280	SWITCH ASSY, LIGHT	1	1	1	1				
2	1	172A77-17250	MONITOR ASSY	1	1	1	1				
3	1	172187-17560	CAP	2	2	2	2				3
4	1	172187-17570	GASKET	2	2	2	2				3
5	1	172A47-63110	PANEL, INSTRUMENT	1	1	1	1				
6	1	172A47-63121	PANEL, INSTRUMENT	1	1	1	1				1
7	1	172519-63240	BOLT	6	6	6	6				
8	1	22857-500121	SCREW 5X12	4	4	4	4				
9	1	172187-17290	SWITCH ASSY, HEATER	1	1	1	1				4
10	1	172472-17300	SWITCH ASSY, WASHER	1	1	1	1				4
11	1	172187-17560	CAP	1	1	1	1				5
12	1	172187-17570	GASKET	1	1	1	1				5
13A	1	172A64-03700	LABEL, START SWITCH	1	1	1	1				2
13B	1	172A47-03260	LABEL, PTO SWITCH	1	1	1	1				2

Remarks  
 (1) Please use this part with following label at the same time.  
 Ref.No.13A,13B.  
 (2) Label is not illustrated.  
 (3) Canopy spec.  
 (4) Cabin spec.  
 (5) Cabin A/C spec.

Fig.49. SEAT MOUNT

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



Remarks

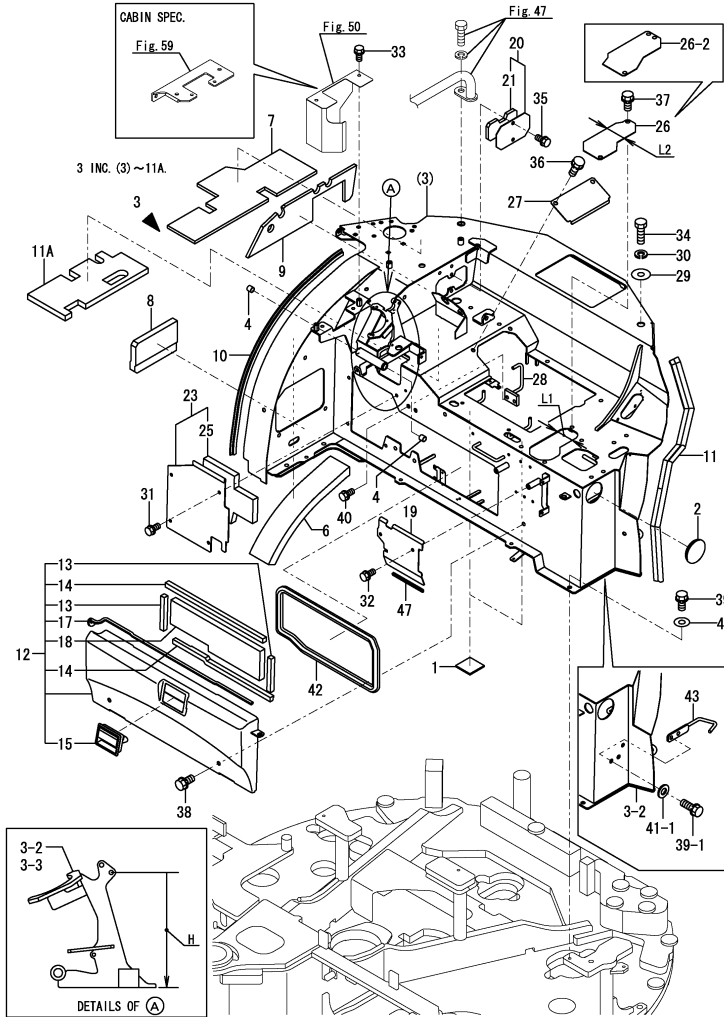
- (1)L1=Ref.No.3:64mm, No.3-1:76mm.  
 H=Ref.No.3-2:196mm, No.3-3:198mm.  
 Please use this part with following label at the same time.  
 Cabin spec.:Ref.No.44A,44B,44C.  
 Canopy spec.:Ref.No.44A,44B,44C,44D,44E.
- (2)Please use this part with following label at the same time.  
 Canopy spec.:Ref.No.45A,45B,45C,45D,45E.
- (3)Please use this part with following label at the same time.  
 Ref.No.46A.
- (4)Label is not illustrated.
- (5)L2=Ref.No.26:72mm, No.26-1:88mm.

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172446-14250	PLATE, RUBBER	2	2	2	2				
2	1	172730-61890	CAP, ENGINE COVER	1	1	1	1				
3	1	172A77-64100	MOUNT ASSY, SEAT	1	1	1	1				1
3-1	1	172A77-64101 (A=M53045) (B=M53045) (C=M53045) (D=M53045)	MOUNT ASSY, SEAT	1	1	1	1				S 1
3-2	1	172A77-64102 (A=M53094) (B=M53094) (C=M53094) (D=M53094)	MOUNT ASSY, SEAT	1	1	1	1				S 1
3-3	1	172A77-64103 (A=M53156) (B=M53156) (C=M53156) (D=M53156)	MOUNT ASSY, SEAT	1	1	1	1				S 1
3-4	1	172A77-64104 (A=M54065) (B=M54065) (C=M54065) (D=M54065)	MOUNT ASSY, SEAT	1	1	1	1				N 1
4	2	172141-41360	BUSH	2	2	2	2				
6	2	172A47-64900	SPONGE	1	1	1	1				
7	2	172A46-64940	WOOL, GLASS	1	1	1	1				
8	2	172A47-64940	SPONGE	1	1	1	1				
9	2	172A46-64990	WOOL, GLASS	1	1	1	1				
10	2	172444-65610	SEAL, BONNET	1	1	1	1				
11	2	172164-65710	RUBBER, SEAL	1	1	1	1				
11-1	2	172A78-65710 (A=M53156) (B=M53156) (C=M53156) (D=M53156)	RUBBER, SEAL B	1	1	1	1				R
11A	2	172A77-64910 (A=M53001) (B=M53001) (C=M53001) (D=M53001)	SPONGE	1	1	1	1				W
12	1	172A47-64501	COVER ASSY, MANUAL	1	1	1	1				2
12-1	1	172A78-64500 (A=M53513) (B=M53513) (C=M53513) (D=M53513)	COVER ASSY, MANUAL	1	1	1	1				N 2
13	2	172446-13580	SEAL, RADIATOR	2	2	2	2				
14	2	172455-18860	SEAL	2	2	2	2				
15	2	172187-61421	HANDLE, LOCK	1	1	1	1				
17	2	172A47-64550	SEAL	1	1	1	1				
18	2	172A47-64950	SPONGE	1	1	1	1				
18-1	2	172A78-64950 (A=M53513) (B=M53513) (C=M53513) (D=M53513)	SPONGE	1	1	1	1				N
19	1	172A47-64580	COVER, ELECTRIC	1	1	1	1				3
20	1	172A46-64820	COVER	1	1	1	1				
21	2	172A46-64830	WOOL, GLASS	1	1	1	1				
23	1	172A47-64871	COVER, SEAT MOUNT	1	1	1	1				
23-1	1	172A78-64870 (A=M53513) (B=M53513) (C=M53513) (D=M53513)	COVER, SEAT MOUNT	1	1	1	1				N
25	2	172A47-64960	SPONGE	1	1	1	1				
25-1	2	172A78-64960 (A=M53513) (B=M53513) (C=M53513) (D=M53513)	SPONGE	1	1	1	1				N
26	1	172A46-64951	COVER, SEAT MOUNT	1	1	1	1				
26-1	1	172A46-64952 (A=M53045) (B=M53045) (C=M53045) (D=M53045)	COVER, SEAT MOUNT	1	1	1	1				S 5
26-2	1	172A46-64953 (A=M53599) (B=M53599) (C=M53599) (D=M53599)	COVER, SEAT MOUNT	1	1	1	1				S
27	1	172A46-64970	COVER, SEAT MOUNT	1	1	1	1				
28	1	172A45-76710	CLAMP ASSY, HOSE	1	1	1	1				
29	1	22157-140000	WASHER, 14	1	1	1	1				
30	1	22217-160000	WASHER, SPRING 16	1	1	1	1				
31	1	26013-080162	BOLT, M8X 16	4	4	4	4				

Fig.49. SEAT MOUNT

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
32	1	26013-080162	BOLT, M8X 16	2	2	2	2				
33	1	26013-080162	BOLT, M8X 16	2	2	2	2				
34	1	26116-160252	BOLT, M16X 25 PLATED	1	1	1	1				
35	1	26013-080162	BOLT, M8X 16	2	2	2	2				
36	1	26013-100162	BOLT, M10X 16	2	2	2	2				
37	1	26013-100162	BOLT, M10X 16	2	2	2	2				
38	1	26013-100202	BOLT, M10X 20	2	2	2	2				
39	1	26013-100252	BOLT, M10X 25	4	4	4	4				
39-1	1	26013-100252	BOLT, M10X 25	6	6	6	6				K
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
40	1	26013-100202	BOLT, M10X 20	2	2	2	2				
41	1	22137-100000	WASHER, 10	1	1	1	1				
41-1	1	22137-100000	WASHER, 10	4	4	4	4				K
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
42	1	172162-65650	SEAL	1	1	1	1				
43	1	172A77-78100	GUIDE ASSY, HOSE	1	1	1	1				W
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
44A	1	172437-03302	LABEL, MANUAL	1	1	1	1				4
44B	1	172437-03471	LABEL, LEVER LOCK	1	1	1	1				4
44C	1	172458-03220	LABEL, ACCELERATOR	1	1	1	1				4
44D	1	172472-03241	LABEL, PINUS	1	1	1	1				4
44E	1	172472-03250	LABEL, OPERATION	1	1	1	1				4
45A	1	172472-03141	LABEL, SUPPORT	1	1	1	1				4
45B	1	172A84-03320	LABEL SPEC US	1	1	1	1				4
45B-1	1	172A84-03321	LABEL SPEC US	1	1	1	1				N 4
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
45C	1	172467-03150	LABEL, GREASING	1	1	1	1				4
45C-1	1	172467-03151	LABEL, GREASING	1	1	1	1				N 4
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
45D	1	172A46-03330	LABEL, OIL & WATER	1	1	1	1				4
45E	1	172437-03242	LABEL, CRAWLER	1	1	1	1				4
46A	1	172A47-03340	LABEL, FUSE	1	1	1	1				4
46A-1	1	172A47-03341	LABEL, FUSE US	1	1	1	1				N 4
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
47	1	172444-17620	SEAL	1	1	1	1				W
		(A=M53045) (B=M53045) (C=M53045) (D=M53045)									

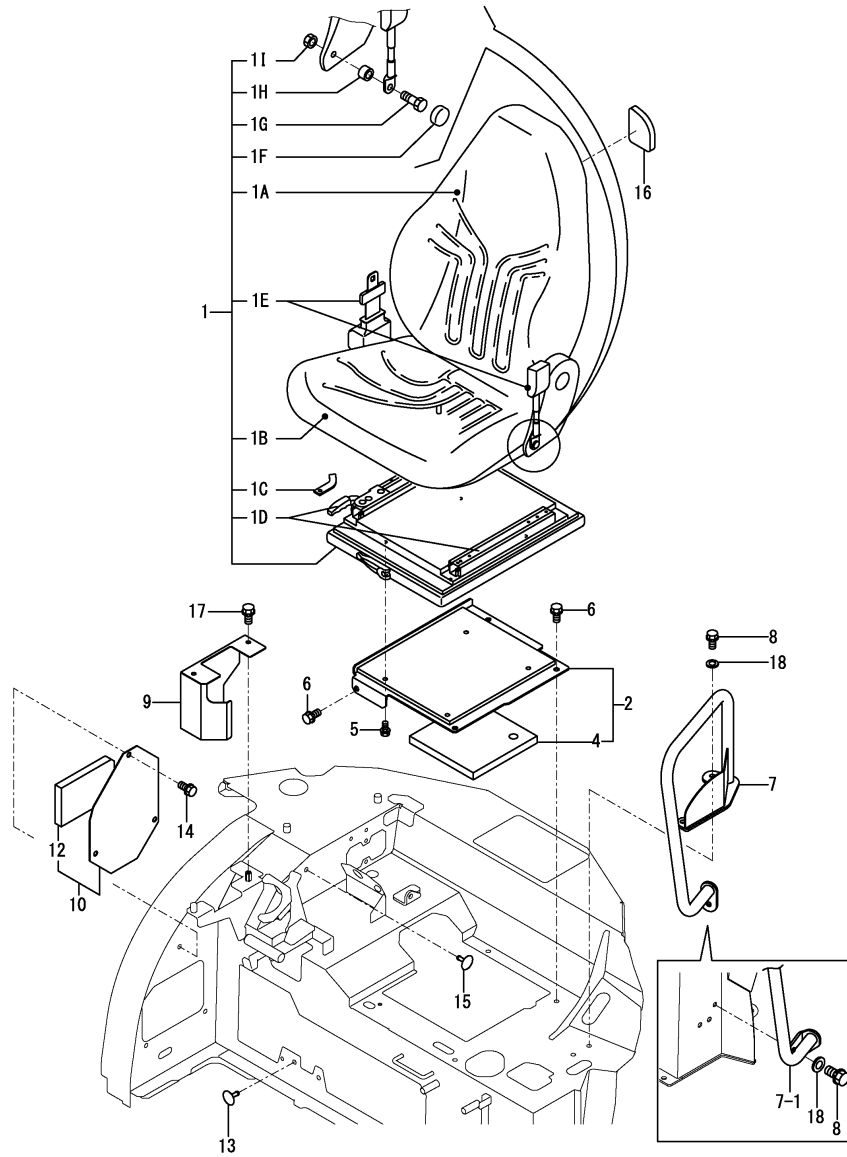
Remarks

- (1)L1=Ref.No.3:64mm, No.3-1:76mm.  
 H=Ref.No.3-2:196mm, No.3-3:198mm.  
 Please use this part with following label at the same time.  
 Cabin spec.:Ref.No.44A,44B,44C.  
 Canopy spec.:Ref.No.44A,44B,44C,44D,44E.
- (2)Please use this part with following label at the same time.  
 Canopy spec.:Ref.No.45A,45B,45C,45D,45E.
- (3)Please use this part with following label at the same time.  
 Ref.No.46A.
- (4)Label is not illustrated.
- (5)L2=Ref.No.26:72mm, No.26-1:88mm.

Fig.50. SEAT & HANDRAIL

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172467-64101	SEAT, OPERATOR		1	1	1					1
1A	2	172467-64110	CUSHION, BACKREST		1	1	1					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1B	2	172467-64120	CUSHION, SEAT		1	1	1					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1C	2	172467-64130	STOPPER		1	1	1					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1D	2	172467-64140	RAIL SET		1	1	1					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1E	2	172467-64150	BELT, SEAT		1	1	1					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1F	2	172467-64160	COVER, CAP		2	2	2					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1G	2	172467-64170	BOLT		2	2	2					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1H	2	172467-64180	TUBE		2	2	2					W
		(B=M53001)	(C=M53001)	(D=M53001)								
1I	2	172467-64190	NUT		2	2	2					W
		(B=M53001)	(C=M53001)	(D=M53001)								
2	1	172A46-64810	PLATE, SEAT		1	1	1	1				
2-1	1	172A46-64811-1	PLATE, SEAT GRM (73)		1	1	1	1				N
		(A=M/#53185)	(B=M/#53185)	(C=M/#53185)	(D=M/#53185)							
4	2	172A46-64930	SPONGE		1	1	1	1				
5	1	26013-080162	BOLT, SPRING M8X 16		4	4	4	4				1
6	1	26013-100202	BOLT, SPRING M10X 20		4	4	4	4				
7	1	172A47-64701	HOLD ASSY, HAND		1	1	1	1				2
7-1	1	172A47-64702	HAND HOLD ASSY		1	1	1	1				S 2
		(A=M53094)	(B=M53094)	(C=M53094)	(D=M53094)							
8	1	26013-100202	BOLT, SPRING M10X 20		2	2	2	2				2
8-1	1	26013-100252	BOLT, M10X 25		3	3	3	3				N
		(A=*2015.07.)	(B=*2015.07.)	(C=*2015.07.)	(D=*2015.07.)							
9	1	172A47-61460-1	COVER, BLADE		1	1	1	1				2
10	1	172A47-64880	COVER, SEAT MOUNT		1	1	1	1				2
10-1	1	172A78-64880	COVER, SEAT MOUNT		1	1	1	1				N 2
		(A=M53513)	(B=M53513)	(C=M53513)	(D=M53513)							
12	2	172A47-64940	SPONGE		1	1	1	1				2
12-1	2	172A78-64940	SPONGE		1	1	1	1				N 2
		(A=M53513)	(B=M53513)	(C=M53513)	(D=M53513)							
13	1	172444-68650	CLIP, TREE		1	1	1	1				2
13-1	1	172122-17190	CLIP, TREE		1	1	1	1				R 2
		(A=*2010.10.)	(B=*2010.10.)	(C=*2010.10.)	(D=*2010.10.)							
14	1	26013-100202	BOLT, SPRING M10X 20		3	3	3	3				2
15	1	172444-68650	CLIP, TREE		4	4	4	4				
15-1	1	172122-17190	CLIP, TREE		4	4	4	4				R
		(A=*2010.10.)	(B=*2010.10.)	(C=*2010.10.)	(D=*2010.10.)							
16	1	172A47-64980	CUSHION, SEAT		1	1	1	1				3
17	1	26013-080162	BOLT, SPRING M8X 16		2	2	2	2				2
18	1	194145-04810	WASHER, 10		3	3	3	3				W
		(A=*2015.07.)	(B=*2015.07.)	(C=*2015.07.)	(D=*2015.07.)							

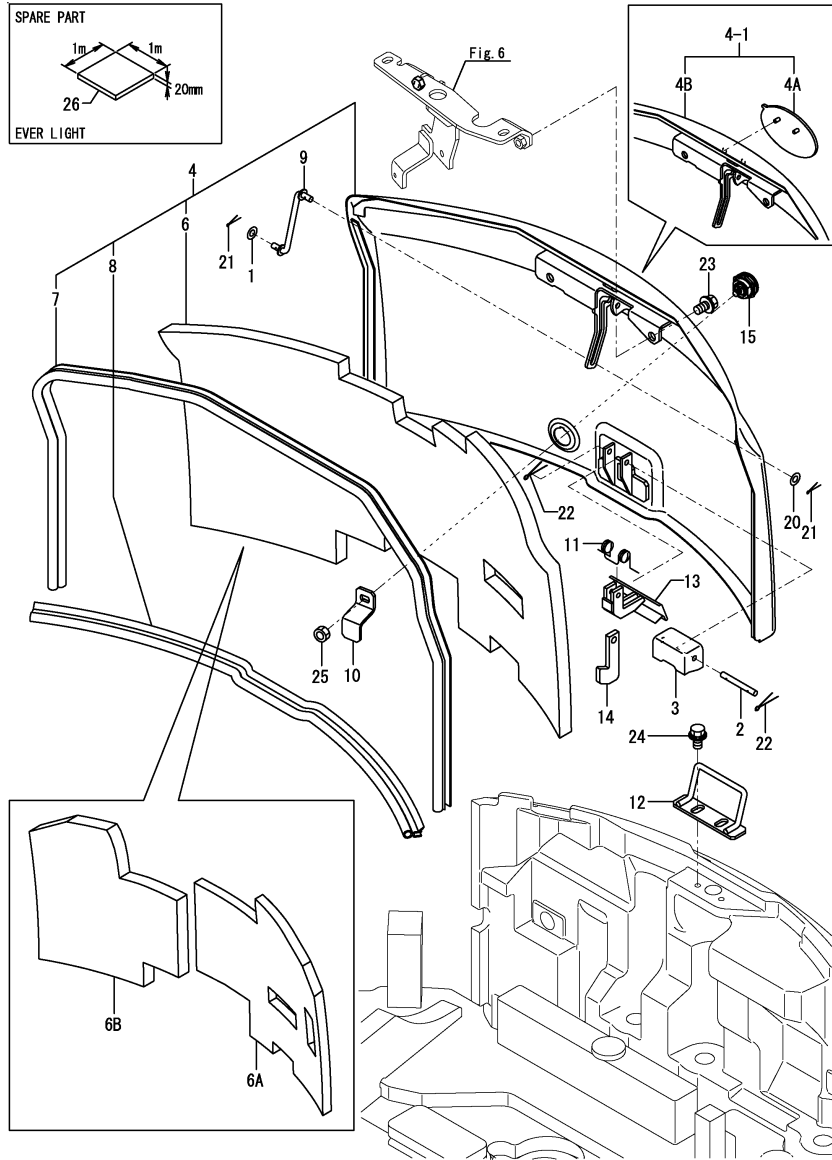
Remarks

- (1)Not applied for US spec.
- (2)Canopy spec.
- (3)Cabin spec.

Fig.51. BONNET(1)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=

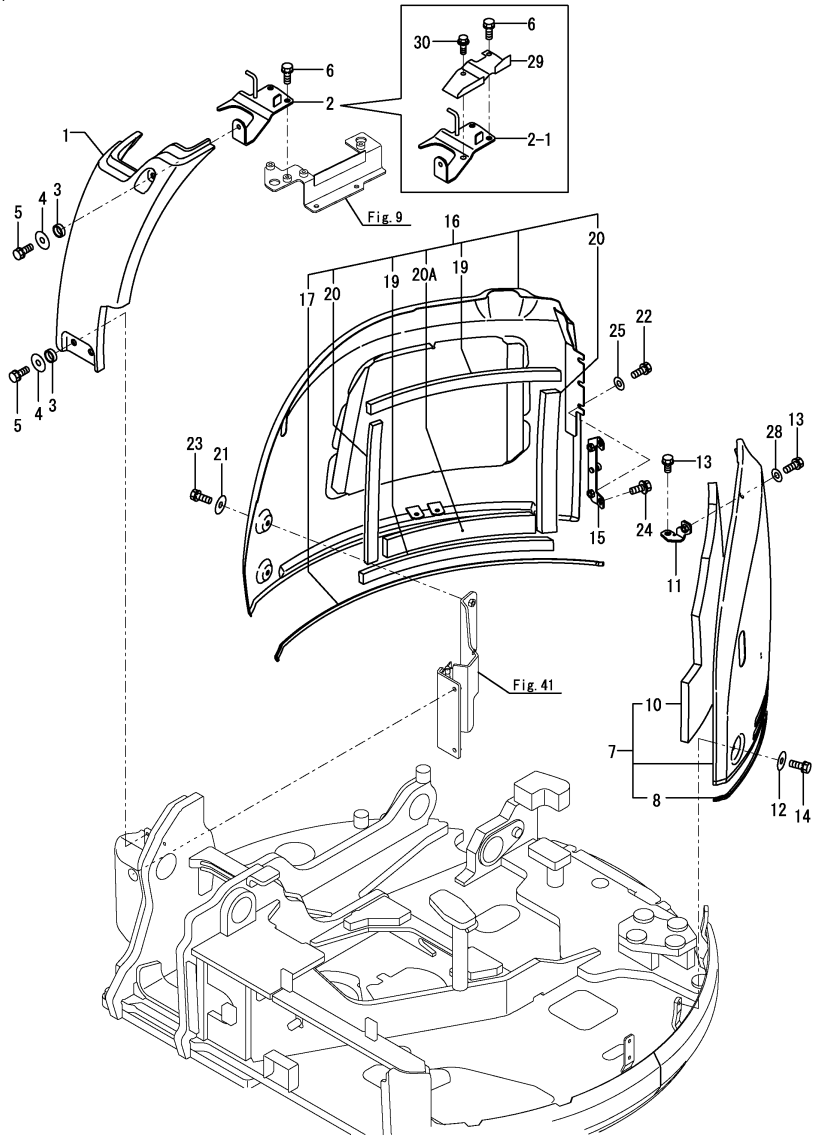


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A1380-62160	WASHER	1	1	1	1				
2	1	172458-65050	SHAFT	1	1	1	1				
3	1	172458-65060	COVER, LOCK	1	1	1	1				
4	1	172A77-65100-2	BONNET ASSY	1	1	1	1				2
4-1	1	172A77-65010	BONNET KIT,A EMB	1	1	1	1				S 2
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
4A	2	172A77-03110	EMBLEM ASSY	1	1	1	1				W
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
4B	2	172A77-65140	BONNET ASSY,A	1	1	1	1				W
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
4B-1	2	172A77-65130	BONNET ASSY,A	1	1	1	1				N
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
6	3	172A46-65170	SPONGE	1	1	1	1				
6-1	3	172A46-65171	SPONGE	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
6-2	3	172A46-65171	SPONGE	1	1	1	1				Z
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
6A	3	172A77-65170	SPONGE	1	1	1	1				W 4
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
6B	3	172A77-65180	SPONGE	1	1	1	1				W 4
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
7	3	172A46-65180	RUBBER, SEAL	1	1	1	1				
8	3	172989-68640	RUBBER, SEAL	1	1	1	1				
9	1	172444-65190	ROD ASSY, STOPPER	1	1	1	1				
10	1	172458-65271	PLATE, LOCK	1	1	1	1				
11	1	172734-65270	SPRING, CATCH	1	1	1	1				
12	1	172A77-65320	CATCH ASSY, LOCK	1	1	1	1				
13	1	172124-65450	LEVER ASSY, LOCK	1	1	1	1				
14	1	172124-65480	CATCHER	1	1	1	1				
15	1	172164-66170	KEY ASSY, CYLINDER	1	1	1	1				
20	1	22137-080000	WASHER, 8	1	1	1	1				
21	1	22417-200200	PIN, COTTER 2.0X20	2	2	2	2				
22	1	22417-200200	PIN, COTTER 2.0X20	2	2	2	2				
23	1	26014-100252	BOLT, M10X 25	2	2	2	2				
24	1	26014-100252	BOLT, M10X 25	2	2	2	2				
25	1	26347-100002	NUT, M10	1	1	1	1				
26	1	172478-65750	SPONGE	1	1	1	1				1
27A	1	172437-03322	LABEL, RESEVOIR	1	1	1	1				3
27B	1	172437-03381	LABEL, SWING AREA	1	1	1	1				3
27C	1	172437-03402	LABEL, ENGINE COVER	1	1	1	1				3
27D	1	172A46-03161	LABEL, REAR	1	1	1	1				3
27E	1	172463-03290	LABEL, HYD.OIL	1	1	1	1				3

Remarks

- (1) Spare parts.
- (2) Please use this part with following label at the same time.  
Ref.No.27A,27B,27C,27D,27E.
- (3) Label is not illustrated.
- (4) Interchangeable by simultaneous replacement with Ref.No.6A,6B.

Fig.52. BONNET(2)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-65460	BONNET	1	1	1	1				
1-1	1	172A77-65420	BONNET,B Y	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
2	1	172A46-65532	PLATE ASSY	1	1	1	1				
2-1	1	172A46-65533	PLATE ASSY	1	1	1	1				N
		(A=M53074) (B=M53074) (C=M53074) (D=M53074)									
3	1	172A47-65550	COLLAR	3	3	3	3				
4	1	22157-100000	WASHER, 10	3	3	3	3				
5	1	26013-100252	BOLT, M10X 25	3	3	3	3				
6	1	26013-100252	BOLT, M10X 25	2	2	2	2				
6-1	1	26014-100202	BOLT, M10X 20	2	2	2	2				N
		(A=M53316) (B=M53316) (C=M53316) (D=M53316)									
7	1	172A46-65600-2	BONNET ASSY	1	1	1	1				1
7-1	1	172A46-65601-2	BONNET ASSY	1	1	1	1				N 1
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
7-2	1	172A46-65601-Y	BONNET L ASSY	1	1	1	1				S 1
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
8	2	172460-19180	TRIM	1	1	1	1				
10	2	172A46-65650	SPONGE	1	1	1	1				
10-1	2	172A46-65651	SPONGE	1	1	1	1				N
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
11	1	172A46-65671	STAY, BONNET	1	1	1	1				
12	1	22157-100000	WASHER, 10	2	2	2	2				
13	1	26013-100252	BOLT, M10X 25	2	2	2	2				
14	1	26013-100252	BOLT, M10X 25	2	2	2	2				
15	1	172A46-65010	BRACKET ASSY	1	1	1	1				
16	1	172A46-65800-2	BONNET ASSY	1	1	1	1				2
16-1	1	172A46-65801-2	BONNET ASSY	1	1	1	1				N 2
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
16-2	1	172A46-65801-Y	BONNET ASSY	1	1	1	1				S 2
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
17	2	172480-62900	TRIM	1	1	1	1				
19	2	172A46-65940	SEAL, BONNET	2	2	2	2				
20	2	172A46-65950	SEAL, BONNET	2	2	2	2				
20A	2	172A77-65810	SPONGE	1	1	1	1				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
21	1	22157-100000	WASHER, 10	2	2	2	2				
22	1	26013-100202	BOLT, M10X 20	2	2	2	2				
23	1	26013-100252	BOLT, M10X 25	2	2	2	2				
24	1	26014-100202	BOLT, M10X 20	2	2	2	2				
25	1	172458-61261	WASHER	2	2	2	2				
26A	1	172437-03361	LABEL, BATTERY	1	1	1	1				3
26B	1	172A44-03151	LABEL, SPECIFICATION	1	1	1	1				3
26B-1	1	172A44-03152	LABEL, SPECIFICATION	1	1	1	1				S 4
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
26B-2	1	172A84-03150	LABEL, MODEL L	1	1	1	1				S 3
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
27A	1	172A36-03411	LABEL, ENGINE ROOM	1	1	1	1				3
27B	1	172437-03422	LABEL, MUFFLER	1	1	1	1				3
27C	1	172A44-03171	LABEL, SPECIFICATION	1	1	1	1				3
27C-1	1	172A44-03172	LABEL, SPECIFICATION	1	1	1	1				S 4

Remarks

(1) Please use this part with following label at the same time.  
 Ref.No.26A,26B.

(2) Please use this part with following label at the same time.  
 Ref.No.27A,27B,27C,27D,27E.

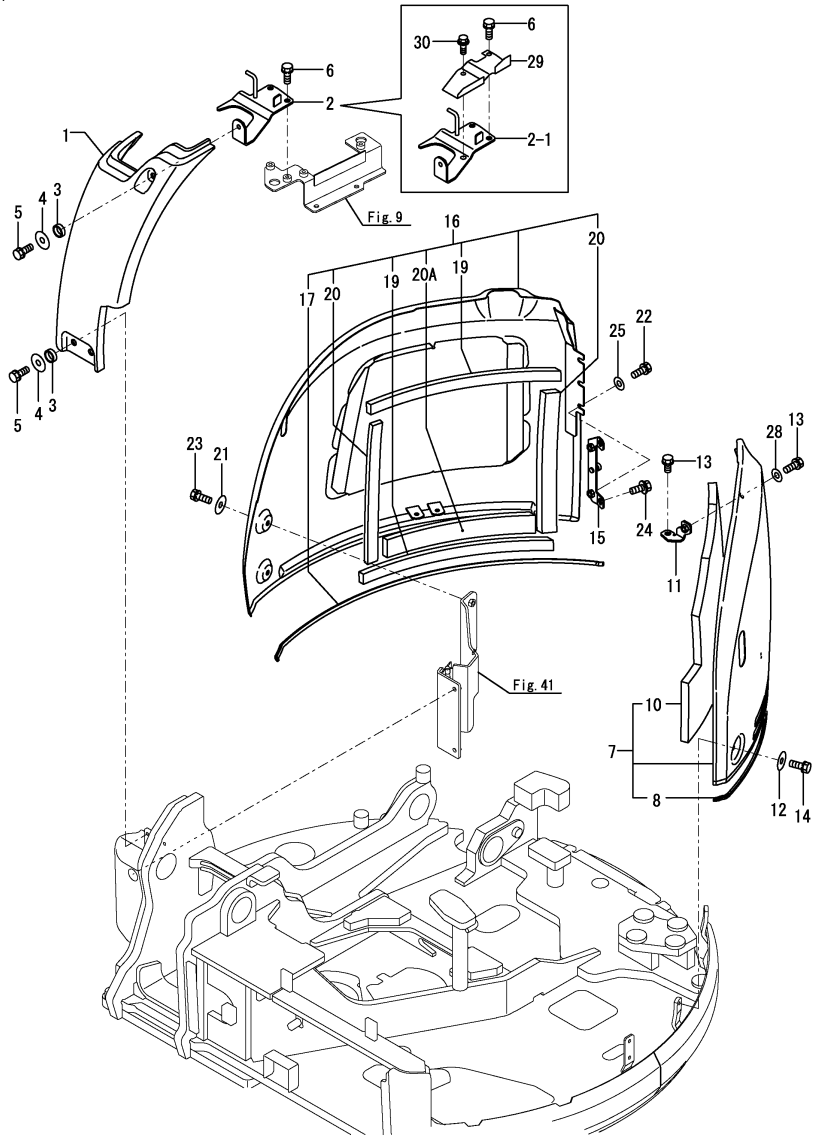
(3) Label is not illustrated.

(4) Interchangeable by simultaneous replacement with Ref.No.26B-1, 27C-1.

OCS10-M52701 BONNET  
**Fig.52. BONNET(2)**

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
27C-2	1	(A=M53085) 172A84-03170	(B=M53085) LABEL, MODEL R	(C=M53085)	(D=M53085)						S	3	
		(A=M54001)	(B=M54001)	(C=M54001)	(D=M54001)								
27D	1	172437-03501	LABEL, FUEL		1	1	1	1				3	
27E	1	114110-07760	LABEL, FUEL CAUTION		1	1	1	1				3	
27E-1	1	114110-07761	LABEL, FUEL OIL CAUT		1	1	1	1				N	3
28	1	(A=M53499) 172458-61261	(B=M53499) WASHER	(C=M53499)	(D=M53499)							W	
		(A=MZZZZZ)	(B=MZZZZZ)	(C=MZZZZZ)	(D=MZZZZZ)								
29	1	172A77-65580	PLATE		1	1	1	1				W	
30	1	(A=M53074) 26013-100252	(B=M53074) BOLT, M10X 25	(C=M53074)	(D=M53074)							W	
		(A=M53074)	(B=M53074)	(C=M53074)	(D=M53074)								
30-1	1	(A=M53074) 26014-100202	(B=M53074) BOLT, M10X 20	(C=M53074)	(D=M53074)							N	
		(A=M53316)	(B=M53316)	(C=M53316)	(D=M53316)								

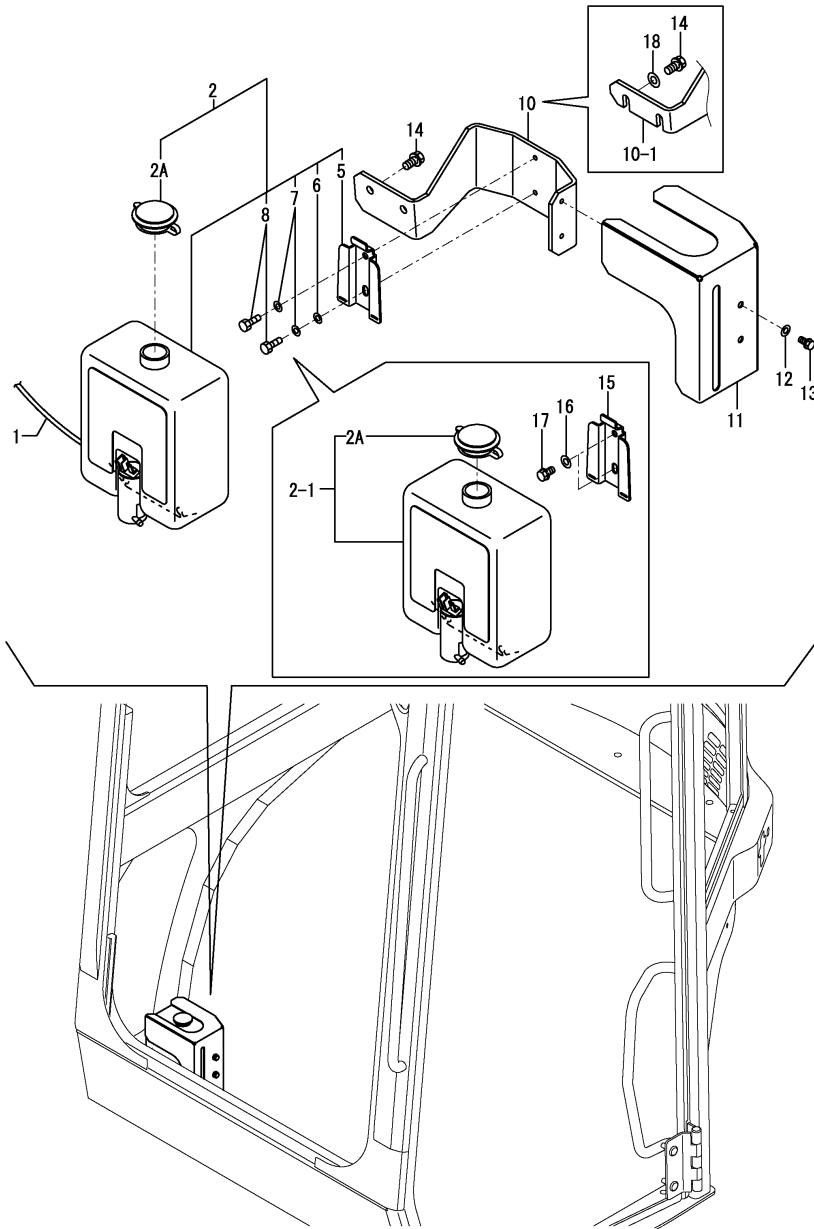
Remarks  
 (1) Please use this part with following label at the same time.  
 Ref.No.26A,26B.  
 (2) Please use this part with following label at the same time.  
 Ref.No.27A,27B,27C,27D,27E.  
 (3) Label is not illustrated.  
 (4) Interchangeable by simultaneous replacement with Ref.No.26B-1, 27C-1.



Fig.28. WINDOW WASHER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-16610	HARNES, WASHER	1	1	1	1				
2	1	172472-17610	TANK ASSY, WASHER	1	1	1	1				
2-1	1	172A47-18980	TANK ASSY, WASHER	1	1	1	1				F 1
2A	2	172A47-18990	CAP	1	1	1	1				W
		(A=M53280) (B=M53280) (C=M53280) (D=M53280)									
5	3	172472-17650	BRACKET	1	1	1	1				Z
6	3	22137-060000	WASHER, 6	1	1	1	1				Z
		(A=M54352) (B=M54352) (C=M54352) (D=M54352)									
7	3	22217-060000	WASHER, SPRING 6	2	2	2	2				Z
8	3	26116-060162	BOLT, M6X 16 PLATED	2	2	2	2				Z
		(A=M54352) (B=M54352) (C=M54352) (D=M54352)									
10	1	172A47-18780	PLATE, WASHER	1	1	1	1				
10-1	1	172A47-18781	PLATE,WT	1	1	1	1				F 2
11	1	172A47-18810	COVER, WASHER	1	1	1	1				
		(A=M53103) (B=M53103) (C=M53103) (D=M53103)									
12	1	22137-060000	WASHER, 6	4	4	4	4				
12-1	1	22137-060000	WASHER, 6	2	2	2	2				K
13	1	26013-060102	BOLT, M6X 10	4	4	4	4				
		(A=M54352) (B=M54352) (C=M54352) (D=M54352)									
13-1	1	26013-060102	BOLT, M6X 10	2	2	2	2				K
14	1	26013-080202	BOLT, M8X 20	2	2	2	2				
		(A=M54352) (B=M54352) (C=M54352) (D=M54352)									
15	1	120147-44810	BRACKET	1	1	1	1				W
16	1	22137-060000	WASHER, 6	2	2	2	2				W
		(A=M54352) (B=M54352) (C=M54352) (D=M54352)									
17	1	26013-060102	BOLT, M6X 10	2	2	2	2				W
18	1	22137-080000	WASHER, 8	2	2	2	2				W
		(A=M53103) (B=M53103) (C=M53103) (D=M53103)									

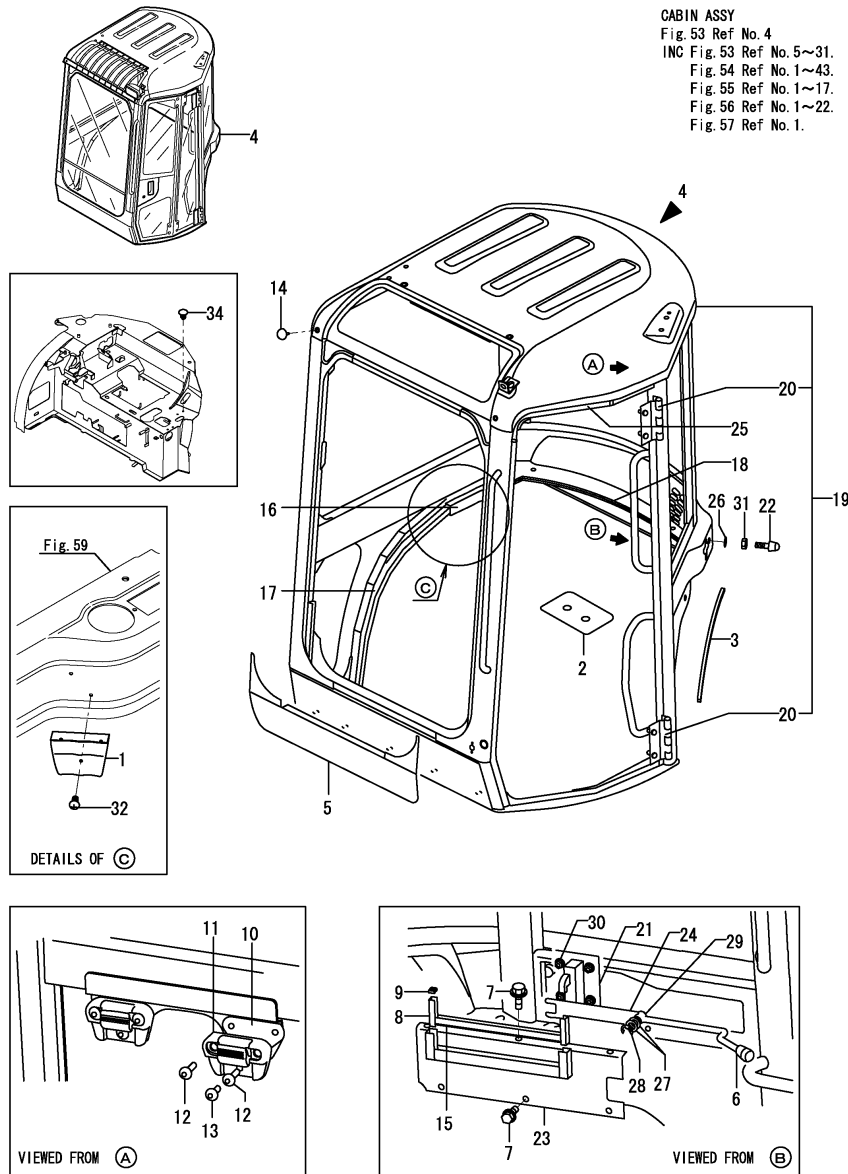
Remarks

- (1)Interchangeable by simultaneous replacement with Ref.No.15,16,17.
- (2)Interchangeable by simultaneous replacement with Ref.No.18.

Fig.53. CABIN(BODY)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172312-17250	ASHTRAY	1	1	1	1				
2	1	172458-63580	SPACER	1	1	1	1				
3	1	172164-65710	RUBBER, SEAL	1	1	1	1				
4	1	172A47-67801	CABIN ASSY	1	1	1	1				1
5	2	172458-03310	LABEL, CABIN FRONT	1	1	1	1				
6	2	1E5100-51430	KNOB, CLUTCH	1	1	1	1				
7	2	172519-63240	BOLT	6	6	6	6				
8	2	172455-67310	RUN, GLASS	2	2	2	2				
9	2	172455-67320	CAP, CHANNEL	2	2	2	2				
10	2	172455-67330	PLATE ASSY, GLASS	2	2	2	2				
11	2	172455-67340	HOLDER, GLASS	2	2	2	2				
12	2	172455-67350	SCREW	4	4	4	4				
13	2	172455-67360	SCREW	2	2	2	2				
14	2	172455-67440	CLIP, TREE	4	4	4	4				
15	2	172458-67840	RUN, GLASS	1	1	1	1				
16	2	172458-67960	SEAL	1	1	1	1				
17	2	172458-67970	SEAL	1	1	1	1				
18	2	172458-67981	SEAL	1	1	1	1				
19	2	172A47-68001	FRAME ASSY, CABIN	1	1	1	1				
20	3	172458-68070	HINGE ASSY, DOOR	2	2	2	2				
21	2	172162-69050	LOCK ASSY	1	1	1	1				
22	2	172165-69190	RUBBER, STOPPER	1	1	1	1				
23	2	172458-69790	COVER ASSY	1	1	1	1				
23-1	2	172M04-69790	COVER ASSY	1	1	1	1				R
		(A=M53831) (B=M53831) (C=M53831) (D=M53831)									
24	2	172458-69830	LEVER, RESET	1	1	1	1				
25	2	172458-69930	SEAL, DOOR	1	1	1	1				
26	2	22117-100000	WASHER, 10	1	1	1	1				
27	2	22117-120000	WASHER, 12	2	2	2	2				
28	2	22272-000100	RING, E-10	1	1	1	1				
29	2	24550-012200	BUSH, 12X20	1	1	1	1				
30	2	26366-080002	NUT, M8	4	4	4	4				
31	2	26716-100002	NUT, M10	1	1	1	1				
32	1	22867-400100	SCREW, 4X10	3	3	3	3				
33A	1	172437-03441	LABEL, ROPS	1	1	1	1				2
33B	1	172437-03451	LABEL, SEAT BELT	1	1	1	1				2
33C	1	172A47-03250	LABEL, PTO FOOT	1	1	1	1				2
34	1	172444-68650	CLIP, TREE	2	2	2	2				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									

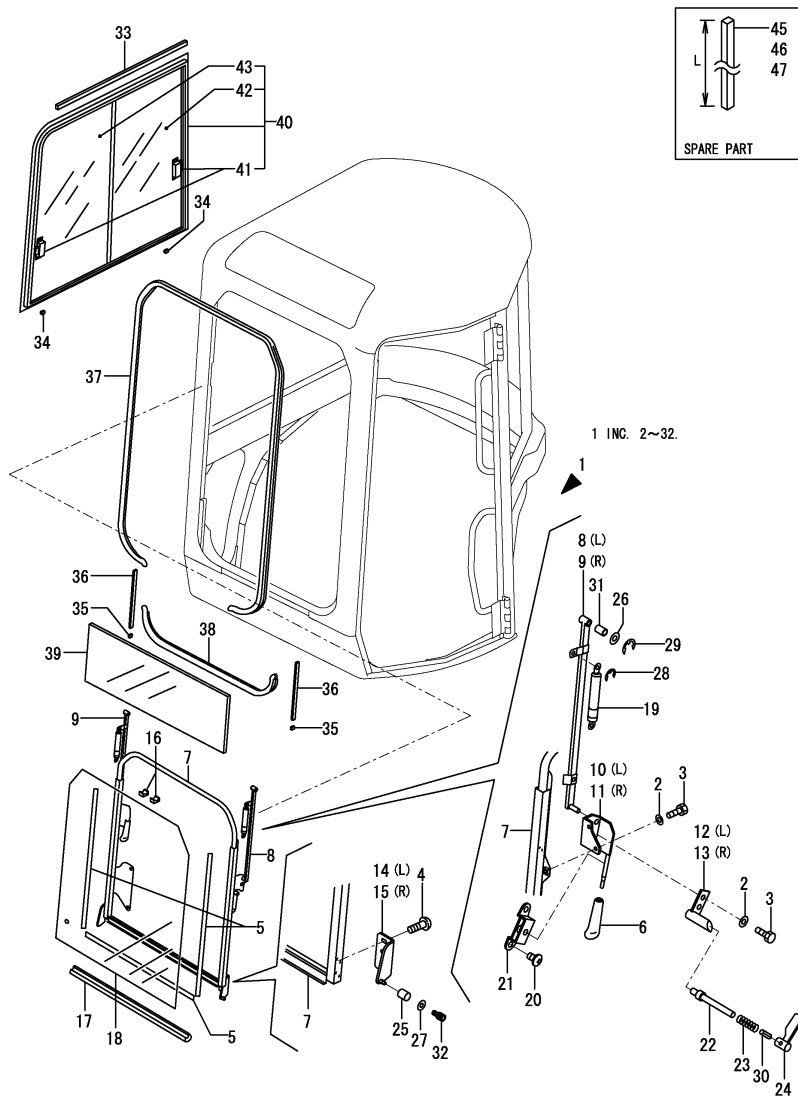
Remarks

- (1) Please use this part with following label at the same time. Ref.No.33A,33B,33C.
- (2) Label is not illustrated.

Fig.54. CABIN(GLASS)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172459-67810	SASH ASSY	1	1	1	1				
2	3	172458-63670	WASHER	8	8	8	8				
3	3	172458-63680	BOLT	8	8	8	8				
4	3	172458-63730	SCREW	4	4	4	4				
5	3	172458-63790	SEAL, DAM	3	3	3	3				
6	3	172445-66750	GRIP	2	2	2	2				
6-1	3	172455-66750	KNOB	2	2	2	2				R
		(A=M53403)	(B=M53403)	(C=M53403)	(D=M53403)						
7	3	172458-67340	FRAME	1	1	1	1				
8	3	172458-67440	LINK	1	1	1	1				
9	3	172458-67510	LINK	1	1	1	1				
10	3	172458-67520	HANDLE	1	1	1	1				
11	3	172458-67550	HANDLE	1	1	1	1				
12	3	172458-67570	LATCH ASSY	1	1	1	1				
13	3	172458-67610	LATCH ASSY	1	1	1	1				
14	3	172458-67670	SHAFT ASSY, ROLLER	1	1	1	1				
15	3	172458-67680	SHAFT ASSY, ROLLER	1	1	1	1				
16	3	172458-67850	RUBBER, STOPPER	2	2	2	2				
17	3	172458-67870	RUBBER, SEAL	1	1	1	1				
18	3	172458-67900	GLASS	1	1	1	1				
19	3	172458-67920	SPRING, GAS	2	2	2	2				
20	3	172463-69150	SCREW	4	4	4	4				
21	3	172463-69160	HOLDER ASSY	2	2	2	2				
22	3	172463-69190	PIN, LATCH	2	2	2	2				
23	3	172463-69200	SPRING	2	2	2	2				
24	3	172463-69210	LEVER ASSY	2	2	2	2				
25	3	172445-69740	ROLLER	2	2	2	2				
26	3	22117-120000	WASHER, 12	4	4	4	4				
27	3	22137-060000	WASHER, 6	2	2	2	2				
28	3	22272-000060	RING, E- 6	4	4	4	4				
29	3	22272-000080	RING, E- 8	4	4	4	4				
30	3	22351-030012	PIN, SPRING 3.0X12	2	2	2	2				
31	3	24550-012200	BUSH, 12X20	4	4	4	4				
32	3	26450-060102	BOLT, M6X 10	2	2	2	2				
33	2	172458-63760	SEAL, SPONGE	1	1	1	1				
34	2	172455-67610	SPACER	2	2	2	2				
35	2	172455-67710	RUBBER, STOPPER	2	2	2	2				
36	2	172458-67830	RUN, GLASS	2	2	2	2				
37	2	172458-67860	RUBBER, SEAL	1	1	1	1				
38	2	172458-67880	RUBBER, SEAL	1	1	1	1				
39	2	172458-67910	GLASS	1	1	1	1				
40	2	172458-69250	SASH ASSY	1	1	1	1				2
41	3	172455-67770	LOCK ASSY, SASH	2	2	2	2				
42	3	172458-69260	GLASS, SASH	1	1	1	1				
43	3	172458-69270	GLASS, SASH	1	1	1	1				
45	1	172478-68600	SEAL, DAM	1	1	1	1				1
46	1	172478-68610	SEAL, DAM	1	1	1	1				1
47	1	172478-68620	SEAL, DAM	1	1	1	1				1
48A	1	172437-03312	LABEL, SLOPE	1	1	1	1				3
48B	1	172437-03372	LABEL, NEUTRAL	1	1	1	1				3
48C	1	172437-03601	LABEL, 2-WAY US	1	1	1	1				3

Remarks

\* Cabin assy is shown in Fig.53.

(1) Spare parts.

L=Ref.No.45:1000mm, No.46:2000mm, No.47:3000mm.

(2) Please use this part with following label at the same time.

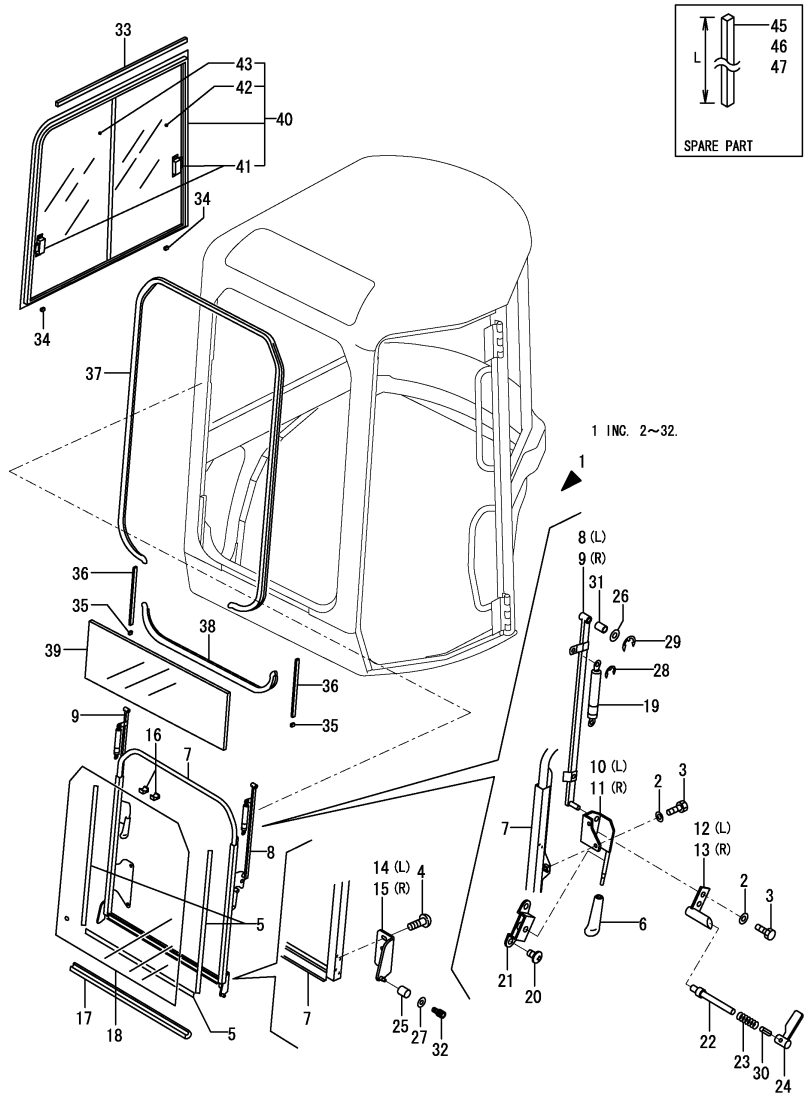
Ref.No.48A,48B,48C,48D.

(3) Label is not illustrated.

Fig.54. CABIN(GLASS)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



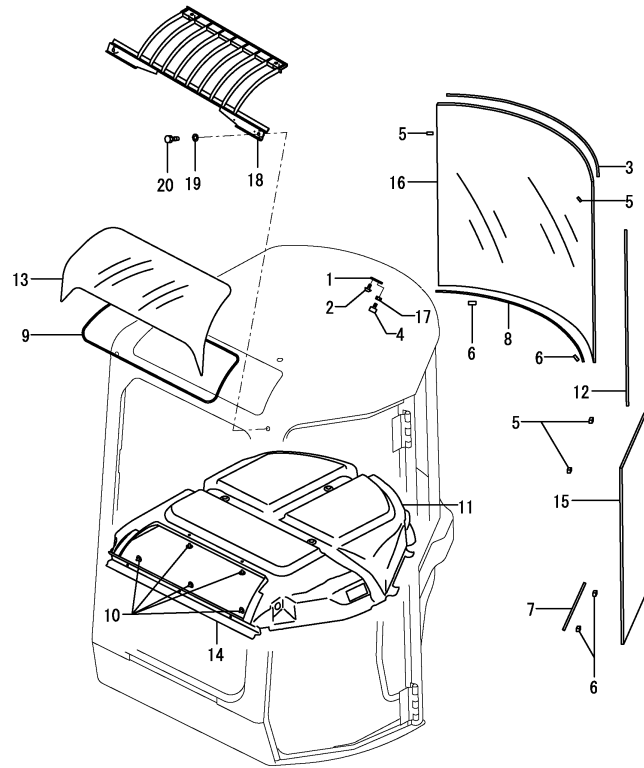
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
48D	1	172490-03200	LABEL, OPERATION	1	1	1	1				3

Remarks  
 \* Cabin assy is shown in Fig.53.  
 (1) Spare parts.  
 L=Ref.No.45:1000mm, No.46:2000mm, No.47:3000mm.  
 (2) Please use this part with following label at the same time.  
 Ref.No.48A,48B,48C,48D.  
 (3) Label is not illustrated.

Fig.55. CABIN(ACCESSORY)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-63700	PLATE ASSY	1	1	1	1				
2	2	172458-63730	SCREW	1	1	1	1				
3	2	172458-63770	TRIM	1	1	1	1				
4	2	172458-63800	RUBBER, STOPPER	1	1	1	1				
5	2	172458-63950	SPACER	4	4	4	4				
6	2	172458-63960	SPACER	4	4	4	4				
7	2	172458-63970	SEAL, DAM	1	1	1	1				
8	2	172458-63980	SEAL, DAM	1	1	1	1				
9	2	172458-63990	SEAL, DAM	1	1	1	1				
10	2	172455-67550	CLIP	15	15	15	15				
11	2	172458-68851	ROOF, INNER	1	1	1	1				
12	2	172458-69090	TRIM	1	1	1	1				
13	2	172458-69210	SUNROOF	1	1	1	1				1
14	2	172458-69220	LINING	1	1	1	1				
15	2	172458-69230	GLASS	1	1	1	1				1
16	2	172458-69240	GLASS	1	1	1	1				2
17	2	26716-100002	NUT, M10	1	1	1	1				
18	1	172472-66611-2	GUARD, FOPS	1	1	1	1				
19	1	22137-100000	WASHER, 10	4	4	4	4				
20	1	26076-100352	BOLT, 10.910X 35	4	4	4	4				
21A	1	172437-03551	LABEL, WINDOW US	1	1	1	1				3
21B	1	172472-03241	LABEL, PINUS	1	1	1	1				3
21C	1	172463-03320	LABEL,F/W LOWER US	1	1	1	1				3
21D	1	172472-03250	LABEL, OPERATION	1	1	1	1				3
22A	1	172A44-03352	LABEL,LIFT Q US	1	1	1	1				3

Remarks

\* Cabin assy is shown in Fig.53.

(1)Please use this part with following label at the same time.  
 Ref.No.21A,21B,21C,21D.

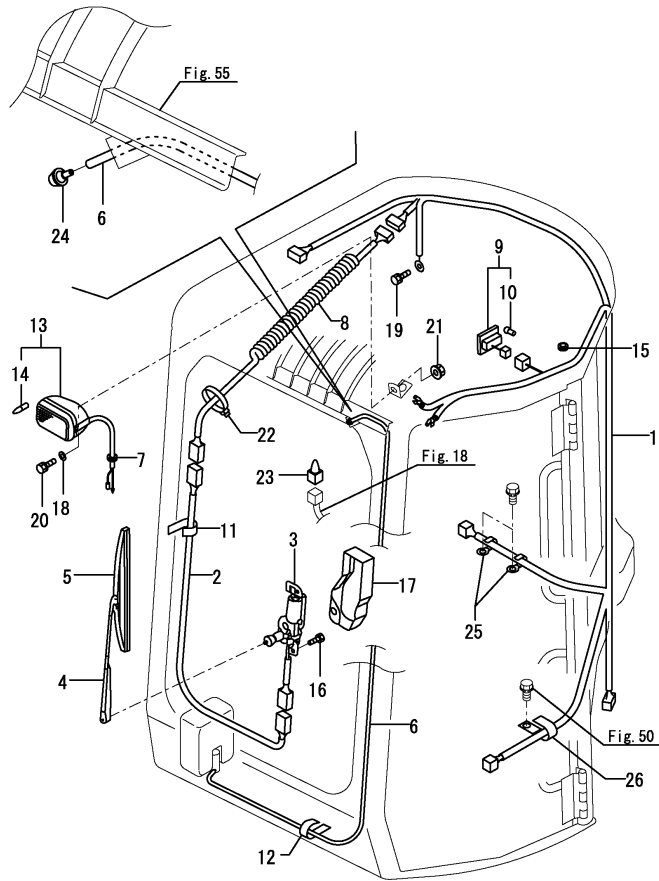
(2)Please use this part with following label at the same time.  
 Ref.No.22A.

(3)Label is not illustrated.

Fig.56. CABIN(ELECTRIC PART)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-16612	HARNES, WIRE	1	1	1	1				
2	2	172458-16620	HARNES, WIRE	1	1	1	1				
3	2	172458-17210	MOTOR, WIPER	1	1	1	1				
4	2	172458-17220	ARM, WIPER	1	1	1	1				
5	2	172458-17230	BLADE, WIPER	1	1	1	1				
6	2	172472-17620	HOSE, WASHER	1	1	1	1				
7	2	172455-67870	GROMMET	2	2	2	2				
8	2	172455-67880	CORD	1	1	1	1				
9	2	172455-67900	LAMP, ROOM	1	1	1	1				
10	3	172455-67930	BULB	1	1	1	1				
11	2	172455-67910	CLAMP, HARNES	3	3	3	3				
12	2	172455-67910	CLAMP, HARNES	3	3	3	3				
13	2	172455-67971	LAMP, CABIN	1	1	1	1				
14	3	172458-17420	BULB	1	1	1	1				
15	2	172458-69320	GROMMET	1	1	1	1				
16	2	172455-69410	BOLT	2	2	2	2				
17	2	172455-69490	COVER, WIPER	1	1	1	1				
18	2	22137-080000	WASHER, 8	1	1	1	1				
19	2	26013-080162	BOLT, M8X 16	1	1	1	1				
20	2	26116-080202	BOLT, M8X 20 PLATED	1	1	1	1				
21	2	26366-080002	NUT, M8	1	1	1	1				
22	2	933168-55770	BAND	1	1	1	1				
23	1	172190-16500	HARNES, WIRE	1	1	1	1				
24	1	198094-86060	NOZZLE, WASHER	1	1	1	1				
25	1	172126-16540	CLAMP	2	2	2	2				
26	1	1A1380-59480	CLAMP, CORD	2	2	2	2				

Remarks

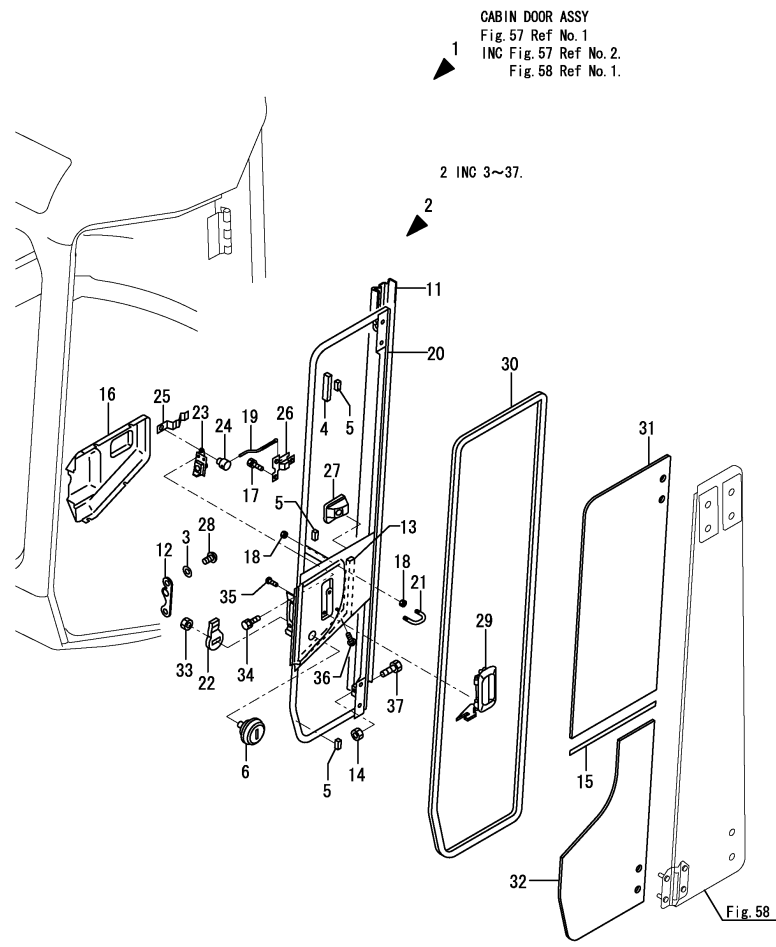
\* Cabin assy is shown in Fig.53.

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

Fig.57. CABIN DOOR(FRONT)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=

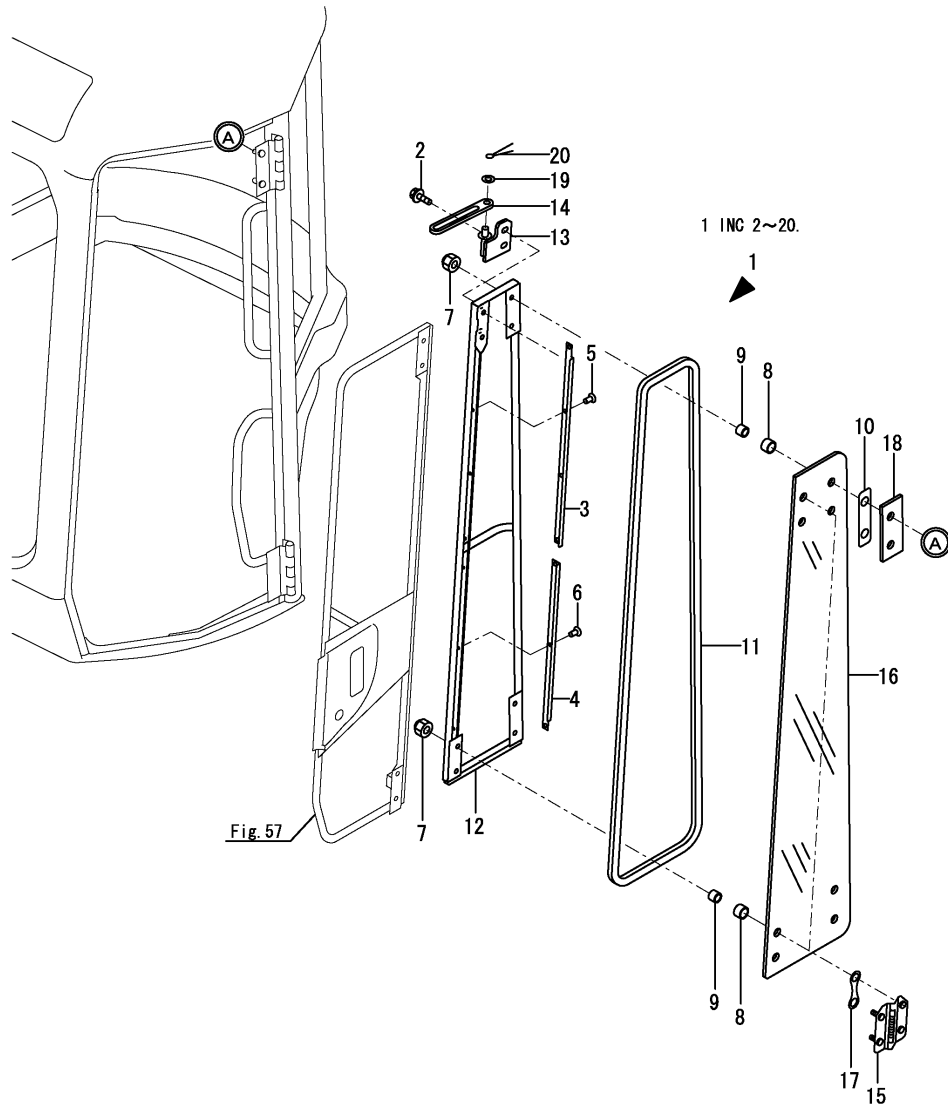


CABIN DOOR ASSY  
Fig. 57 Ref No. 1  
INC Fig. 57 Ref No. 2.  
Fig. 58 Ref No. 1.

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172459-67821	DOOR ASSY	1	1	1	1				
2	3	172459-67831	DOOR ASSY	1	1	1	1				
3	4	172458-63670	WASHER	2	2	2	2				
4	4	172458-63930	STOPPER	1	1	1	1				
5	4	172458-63950	SPACER	3	3	3	3				
6	4	172164-66170	KEY ASSY, CYLINDER	1	1	1	1				
11	4	172458-66720	COVER, DOOR	1	1	1	1				
12	4	172458-67020	STRIKER ASSY	1	1	1	1				
13	4	172458-67650	SEAL, DAM	1	1	1	1				
14	4	26716-100002	NUT, M10	1	1	1	1				
15	4	172458-69100	TRIM	1	1	1	1				
16	4	172455-69170	COVER, LATCH	1	1	1	1				
17	4	172455-69300	BOLT	3	3	3	3				
18	4	172445-69320	NUT	4	4	4	4				
19	4	172445-69400	ROD, HANDLE	1	1	1	1				
20	4	172458-69400	FRAME ASSY, DOOR	1	1	1	1				1
21	4	172445-69420	HOOK, DOOR	1	1	1	1				
22	4	172162-69470	PLATE, LOCK	1	1	1	1				
23	4	172162-69480	LOCK ASSY	1	1	1	1				
24	4	172162-69490	PIN	1	1	1	1				
25	4	172162-69500	SPRING	1	1	1	1				
26	4	172162-69510	HANDLE ASSY	1	1	1	1				
27	4	172162-69520	COVER	1	1	1	1				
28	4	172455-69520	BOLT	2	2	2	2				
29	4	172162-69542	HANDLE, OUTER	1	1	1	1				
29-1	4	172162-69543	HANDLE, OUTER	1	1	1	1				N
		(A=M53831) (B=M53831) (C=M53831) (D=M53831)									
30	4	172458-69580	TRIM ASSY	1	1	1	1				
31	4	172458-69900	GLASS, DOOR	1	1	1	1				
32	4	172458-69910	GLASS, DOOR	1	1	1	1				
33	4	26716-100002	NUT, M10	1	1	1	1				
34	4	26013-060162	BOLT, M6X 16	3	3	3	3				
35	4	26023-060122	SCREW, M6X12	2	2	2	2				
36	4	26023-060162	SCREW, M6X16	4	4	4	4				
36-1	4	172458-69170	SCREW, SETTING	4	4	4	4				N
		(A=M53424) (B=M53424) (C=M53424) (D=M53424)									
37	4	26116-100304	BOLT, M10X 30 PLATED	1	1	1	1				
38A	1	172458-03601	LABEL, DOOR LOCK	1	1	1	1				2

Remarks  
\* Cabin assy is shown in Fig.53.  
(1)Please use this part with following label at the same time.  
Ref.No.38A.  
(2)Label is not illustrated.

Fig.58. CABIN DOOR(REAR)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	3	172459-67841	DOOR ASSY	1	1	1	1				
2	4	172519-63240	BOLT	2	2	2	2				
3	4	172458-66780	PLATE, DOOR	1	1	1	1				
4	4	172458-66790	PLATE, DOOR	1	1	1	1				
5	4	172458-66800	SCREW	4	4	4	4				
6	4	172458-66800	SCREW	3	3	3	3				
7	4	172455-69140	NUT, CAP	12	12	12	12				
8	4	172455-69200	TUBE	12	12	12	12				
9	4	172455-69250	PIPE	12	12	12	12				
10	4	172455-69290	PACKING	4	4	4	4				
11	4	172458-69590	TRIM ASSY	1	1	1	1				
12	4	172458-69601	FRAME ASSY, DOOR	1	1	1	1				
13	4	172458-69730	PLATE ASSY	1	1	1	1				
14	4	172458-69760	GUIDE, STOPPER	1	1	1	1				
15	4	172458-69770	HINGE	2	2	2	2				
16	4	172458-69920	GLASS, DOOR	1	1	1	1				
17	4	172458-69960	GASKET	8	8	8	8				
18	4	172458-69990	COVER	2	2	2	2				
19	4	22137-080000	WASHER, 8	2	2	2	2				
20	4	22417-200160	PIN, COTTER 2.0X16	2	2	2	2				

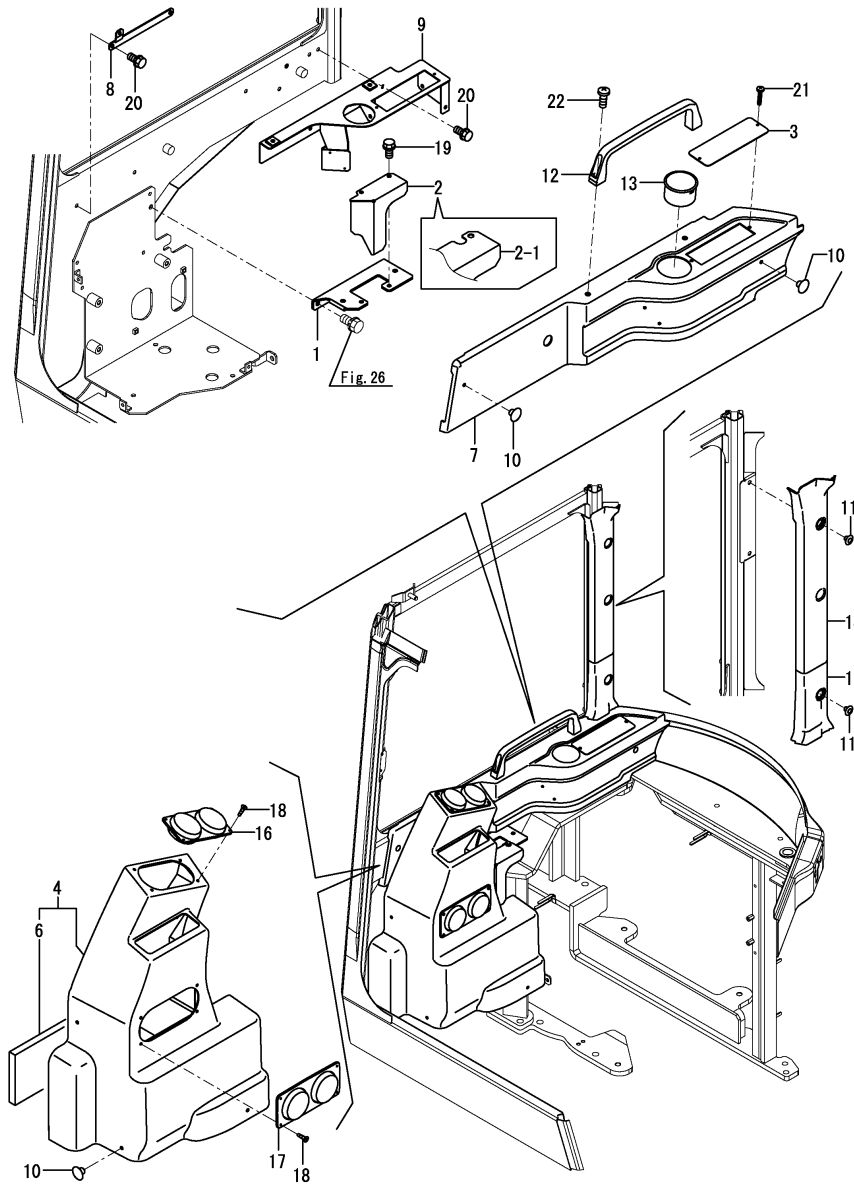
Remarks  
 \* Cabin assy is shown in Fig.53.  
 \* Cabin door assy is shown in Fig.57.



Fig.59. CABIN(COVER)(TO M53438)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



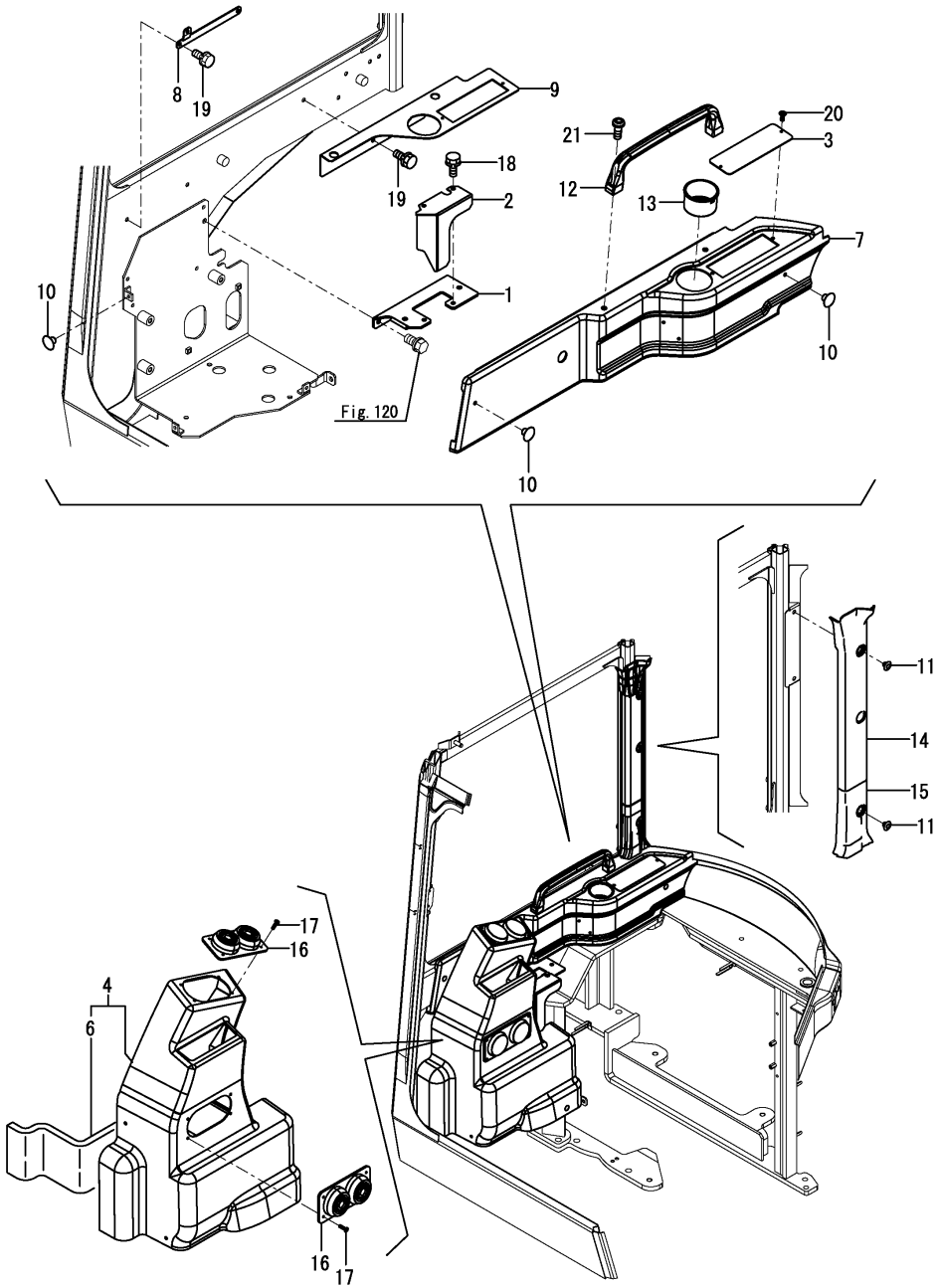
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-18270-1	BRACKET ASSY	1	1	1	1				
2	1	172A47-18280	COVER	1	1	1	1				
2-1	1	172A47-18281	COVER	1	1	1	1				S
3	1	172A47-18930	COVER, RADIO	1	1	1	1				
4	1	172A47-61490	COVER ASSY, CABIN	1	1	1	1				1
6	2	172A47-61530	SPONGE	1	1	1	1				
7	1	172A47-61511	COVER, CABIN	1	1	1	1				
8	1	172A47-63190	STAY ASSY	1	1	1	1				
9	1	172A47-63220-1	STAY ASSY, TUBE	1	1	1	1				
10	1	1A6260-64200	CLIP	5	5	5	5				
11	1	172458-64600	CLIP, TREE	3	3	3	3				
12	1	172176-67181	GRIP	1	1	1	1				
13	1	172176-67880	HOLDER	1	1	1	1				
14	1	172458-68990	COVER, PILLAR	1	1	1	1				
14-1	1	172458-68991	COVER, PILLAR	1	1	1	1				N
15	1	172458-69000	COVER, PILLAR	1	1	1	1				
16	1	1E8545-80940	GRILLE, DUCT	1	1	1	1				
17	1	197821-88070	GRILLE	1	1	1	1				
18	1	22869-400160	SCREW, 4X16	8	8	8	8				
19	1	26013-080162	BOLT, M8X 16	2	2	2	2				
20	1	26013-080202	BOLT, M8X 20	4	4	4	4				
21	1	26033-040202	SCREW, M4X20	2	2	2	2				
22	1	26557-080202	SCREW, M8X20	2	2	2	2				
23A	1	172437-03343	LABEL, TRANSPORT	1	1	1	1				2

Remarks  
 (1)Please use this part with following label at the same time.  
 Ref.No.23A.  
 (2)Label is not illustrated.

Fig.121. (59A)CABIN(COVER)(FROM M53439)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

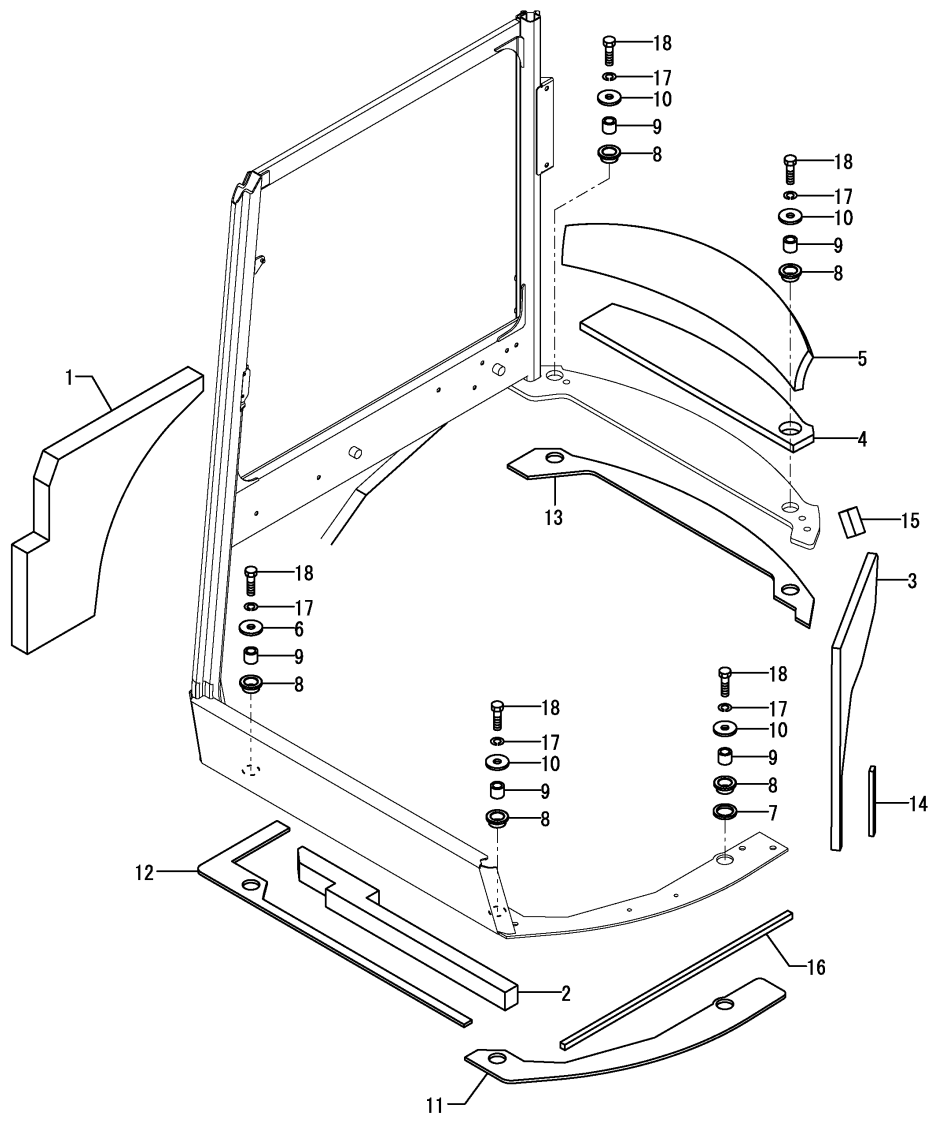


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-18270-1	BRACKET ASSY	1	1	1	1				
2	1	172A47-18281	COVER	1	1	1	1				
3	1	172A47-18930	COVER, RADIO	1	1	1	1				
4	1	172A47-61491	COVER ASSY,CAB F	1	1	1	1				
6	2	172A47-61530	SPONGE	1	1	1	1				
7	1	172A47-61511	COVER, CABIN	1	1	1	1				
8	1	172A47-63190	STAY ASSY	1	1	1	1				
9	1	172A47-63220-1	STAY ASSY, TUBE	1	1	1	1				
10	1	1A6260-64200	CLIP	5	5	5	5				
11	1	172458-64600	CLIP, TREE	3	3	3	3				
12	1	172176-67181	GRIP	1	1	1	1				
13	1	172176-67880	HOLDER	1	1	1	1				
14	1	172458-68991	COVER, PILLAR	1	1	1	1				
15	1	172458-69000	COVER, PILLAR	1	1	1	1				
16	1	1E8545-80090	GRILLE, ROUND	2	2	2	2				
17	1	22857-500160	SCREW, 5X16	8	8	8	8				
18	1	26013-080162	BOLT, M8X 16	2	2	2	2				
19	1	26013-080202	BOLT, M8X 20	4	4	4	4				
20	1	26033-040202	SCREW, M4X20	2	2	2	2				
21	1	26557-080202	SCREW, M8X20	2	2	2	2				

Fig.60. CABIN(FITTING)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



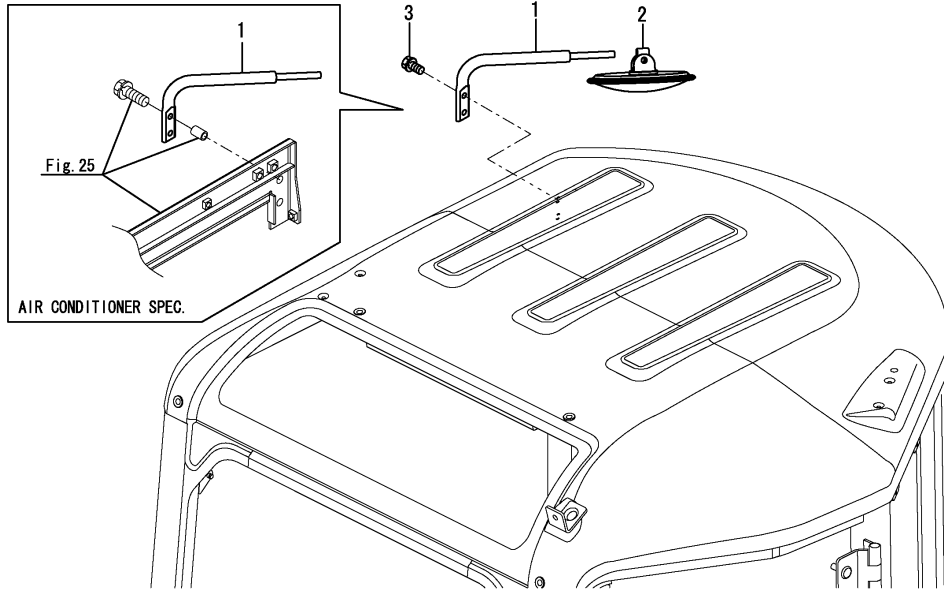
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-61550	SEAL, CABIN	1	1	1	1				
2	1	172A47-61560	SEAL, CABIN	1	1	1	1				
3	1	172A47-68820	SPONGE	1	1	1	1				
4	1	172A47-68830	SPONGE	1	1	1	1				
5	1	172A47-68840	SPONGE	1	1	1	1				
6	1	172A47-68850	WASHER	1	1	1	1				
7	1	172A47-68860	WASHER	1	1	1	1				
8	1	172A47-68870	GROMMET	5	5	5	5				
9	1	172A47-68880	COLLAR	5	5	5	5				
10	1	172A47-68890	WASHER	4	4	4	4				
11	1	172A47-68900	PAD, ABSORBER	1	1	1	1				
12	1	172A47-68920	PAD, ABSORBER	1	1	1	1				
13	1	172A47-68930	PAD, ABSORBER	1	1	1	1				
14	1	172A47-68940	SEAL, CABIN	1	1	1	1				
15	1	172A47-68980	SEAL, CABIN	1	1	1	1				
16	1	172A47-68990	SEAL, CABIN	1	1	1	1				
17	1	22217-160000	WASHER, SPRING 16	5	5	5	5				
18	1	26076-160552	BOLT, 10.916X 55	5	5	5	5				

Fig.62. REARVIEW MIRROR

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

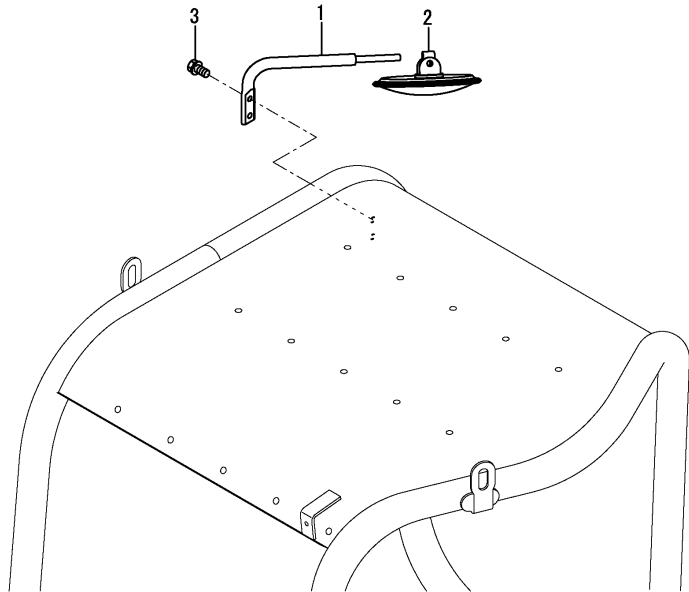
(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

CABIN SPEC.



AIR CONDITIONER SPEC.

ROPS CANOPY SPEC.

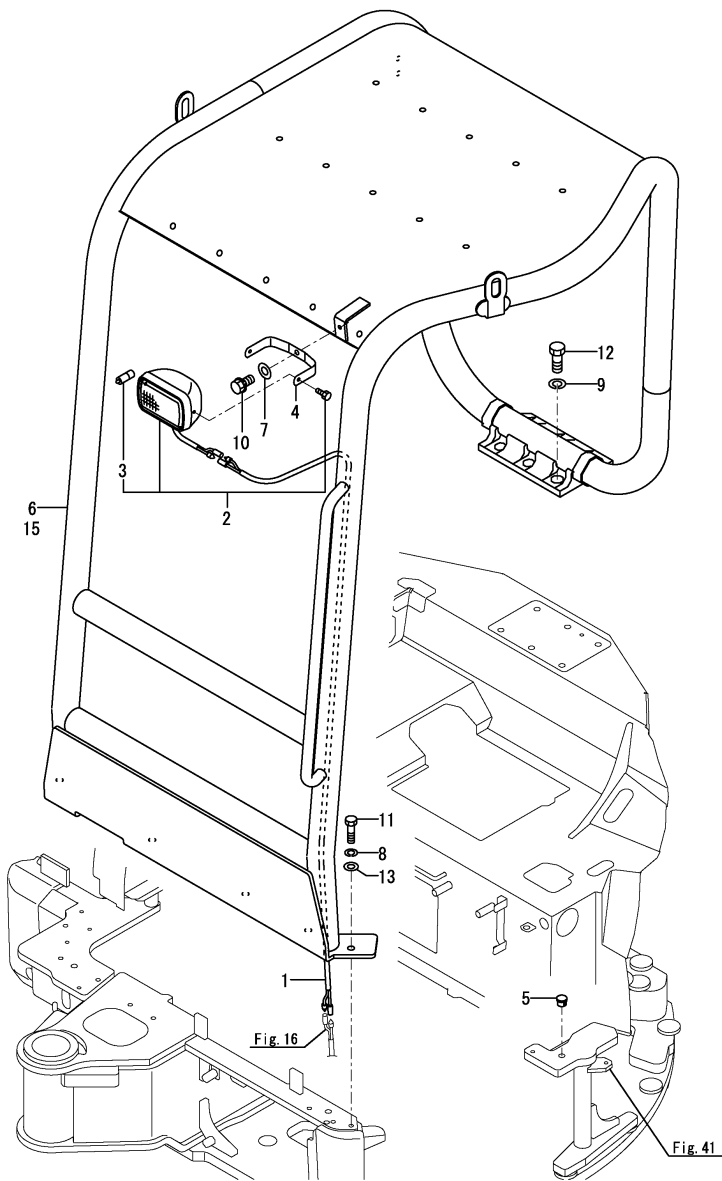


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A25-68301-1	BRACKET, MIRROR	1	1	1	1				
2	1	172A25-68500	MIRROR, REARVIEW	1	1	1	1				
3	1	26013-100162	BOLT, M10X 16	2	2	2	2				
3-1	1	26013-100252	BOLT, M10X 25	2	2	2	2				N
		(A=M53303)	(B=M53303)	(C=M53303)	(D=M53303)						

Fig.61. CANOPY

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-16562	HARNES, LAMP	1	1	1	1				
2	1	172A47-17270	LIGHT ASSY	1	1	1	1				
3	2	172A47-17280	BULB	1	1	1	1				
4	1	172458-17410	STAY, LAMP	1	1	1	1				
5	1	172A47-54610	CLIP, ANCHOR	1	1	1	1				
6	1	172467-66300-1	CANOPY ASSY		1	1	1				1
6-1	1	172467-66301-1	CANOPY ASSY, ROPS		1	1	1				F 1
		(B=M53073)	(C=M53073)	(D=M53073)							
7	1	22137-100000	WASHER, 10	1	1	1	1				
8	1	22217-120000	WASHER, SPRING 12	4	4	4	4				
9	1	22217-160000	WASHER, SPRING 16	6	6	6	6				
10	1	26013-100202	BOLT, M10X 20	1	1	1	1				
11	1	26076-120402	BOLT, 10.912X 40	4	4	4	4				
12	1	26076-160402	BOLT, 10.916X 40	6	6	6	6				
13	1	172149-66550	WASHER	4	4	4	4				
14A	1	172472-03141	LABEL, SUPPORT	1	1	1	1				2
14B	1	172A44-03352	LABEL, LIFT Q US	1	1	1	1				2
14C	1	172437-03312	LABEL, SLOPE	1	1	1	1				2
14D	1	172437-03343	LABEL, TRANSPORT	1	1	1	1				2
14E	1	172437-03372	LABEL, NEUTRAL	1	1	1	1				2
14F	1	172437-03441	LABEL, ROPS	1	1	1	1				2
14G	1	172437-03451	LABEL, SEAT BELT	1	1	1	1				2
14H	1	172437-03601	LABEL, 2-WAY US	1	1	1	1				2
14I	1	172A47-03250	LABEL, PTO FOOT	1	1	1	1				2
14J	1	172490-03200	LABEL, OPERATION	1	1	1	1				2
15	1	172A47-67900	CANOPY ASSY	1	1	1	1				1

Remarks

(1)It supplies it with serial number label and puts follows label again, and please use it.

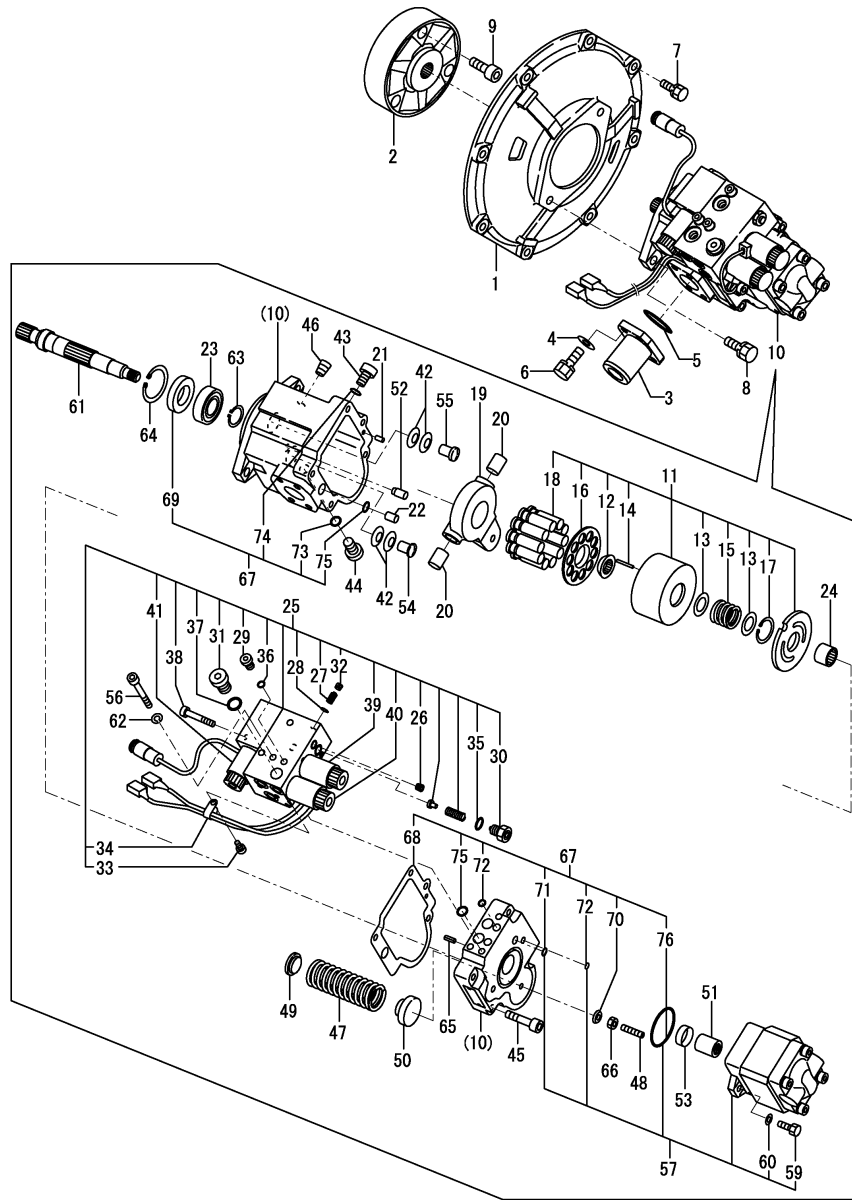
Ref.No.14A - 14J.

(2)Label is not illustrated.

Fig.63. HYD.OIL PUMP & JOINT(QUIK COUPLER SPEC.)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=

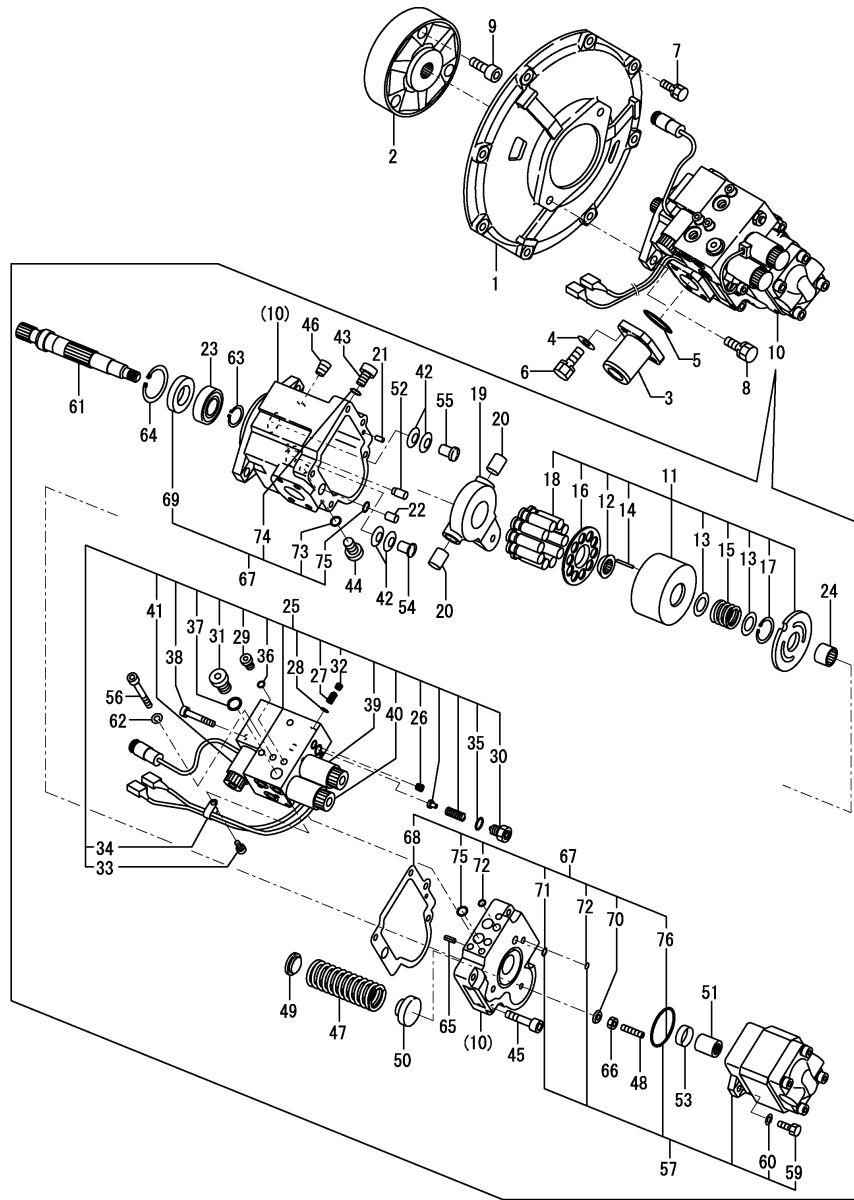


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-4	COVER, FLYWHEEL	1	1	1	1				
2	1	172165-71200	COUPLING	1	1	1	1				
3	1	172422-76100	FLANGE	1	1	1	1				
4	1	22117-100000	WASHER, 10	4	4	4	4				
5	1	24321-000400	O-RING, 1AG40.0	1	1	1	1				
6	1	26013-100302	BOLT, M10X 30	4	4	4	4				
7	1	26013-100302	BOLT, M10X 30	8	8	8	8				
8	1	26013-120352	BOLT, M12X 35	2	2	2	2				
9	1	26450-120402	BOLT, M12X 40	3	3	3	3				
10	1	172958-73501	PUMP ASSY	1	1	1	1				
11	2	172458-73510	BARREL KIT, CYLINDER	1	1	1	1				
12	3	172422-73130	HOLDER, BARREL	1	1	1	1				
13	3	172422-73250	RETAINER	2	2	2	2				
14	3	172458-73530	NEEDLE	3	3	3	3				
15	3	172458-73540	SPRING	1	1	1	1				
16	3	172458-73670	HOLDER, SHOE	1	1	1	1				
17	3	22252-000350	RING, 35	1	1	1	1				
18	3	172458-73520	PISTON ASSY, PUMP	1	1	1	1				
19	2	172422-73140	PLATE, SWASH	1	1	1	1				
20	2	172422-73160	PIN	2	2	2	2				
21	2	172422-73220	PIN	1	1	1	1				
22	2	172422-73280	PIN	1	1	1	1				
23	2	172422-73290	BEARING, BALL	1	1	1	1				
24	2	172422-73500	BEARING, NEEDLE	1	1	1	1				
25	2	172958-73510	BLOCK ASSY, VALVE	1	1	1	1				
25-1	2	172958-73511	BLOCK ASSY, VALVE	1	1	1	1				N
				(A=*2014.10.)	(B=*2014.10.)	(C=*2014.10.)	(D=*2014.10.)				
26	3	172422-73550	PLUG	8	8	8	8				
27	3	172422-73620	SPRING	1	1	1	1				
28	3	172422-73630	FILTER	1	1	1	1				
29	3	172458-73630	PLUG	1	1	1	1				
30	3	172422-73640	ADJUSTER KIT	1	1	1	1				
31	3	172458-73640	PLUG	1	1	1	1				
32	3	172422-73650	PLUG	2	2	2	2				
33	3	172422-73660	BOLT	1	1	1	1				
34	3	172422-73670	CLAMP	1	1	1	1				
35	3	24311-000100	O-RING, 1AP10.0	1	1	1	1				
36	3	24315-000080	O-RING, 1BP8.0	1	1	1	1				
37	3	24315-000140	O-RING, 1BP14.0	1	1	1	1				
38	3	26450-050452	BOLT, M5X 45	4	4	4	4				
39	3	172458-73680	VALVE ASSY	1	1	1	1				1
40	3	172458-73690	VALVE ASSY	1	1	1	1				2
41	3	172458-73790	VALVE, SOLENOID	1	1	1	1				3
42	2	172422-73520	SPRING	4	4	4	4				
43	2	172422-73530	PLUG	1	1	1	1				
44	2	172422-73530	PLUG	1	1	1	1				
45	2	172422-73540	BOLT	5	5	5	5				
46	2	172422-73550	PLUG	5	5	5	5				
47	2	172458-73550	SPRING	1	1	1	1				
48	2	172422-73560	SCREW	1	1	1	1				
49	2	172458-73560	HOLDER, SPRING	1	1	1	1				

Remarks

- (1)For second gear traveling.
- (2)For safety lock.
- (3)For quick coupler.

Fig.63. HYD.OIL PUMP & JOINT(QUIK COUPLER SPEC.)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
50	2	172458-73570	GUIDE, SPRING	1	1	1	1				
51	2	172422-73580	COUPLING	1	1	1	1				
52	2	172458-73580	ROD	1	1	1	1				
53	2	172422-73590	COLLAR	1	1	1	1				
54	2	172458-73590	PIN, STOPPER	1	1	1	1				
55	2	172458-73600	PIN, STOPPER	1	1	1	1				
56	2	172422-73610	BOLT	3	3	3	3				
57	2	172458-73611	PUMP ASSY, GEAR	1	1	1	1				
57-1	2	172458-73612	PUMP ASSY, GEAR	1	1	1	1				R
(A=M53001) (B=M53001) (C=M53001) (D=M53001)											
59	3	172450-73120	BOLT	2	2	2	2				
60	3	172450-73130	WASHER	2	2	2	2				
61	2	172458-73660	SHAFT	1	1	1	1				
62	2	22212-080000	WASHER 8	3	3	3	3				
63	2	22242-000250	RING, 25	1	1	1	1				
64	2	22252-000520	RING, 52	1	1	1	1				
65	2	22351-060016	PIN, SPRING 6.0X16	1	1	1	1				
66	2	26711-080002	NUT, M8	1	1	1	1				
67	2	172422-73700	SEAL SET, PUMP	1	1	1	1				
68	3	172422-73170	GASKET	1	1	1	1				
69	3	172422-73510	SEAL, OIL	1	1	1	1				
70	3	172422-73570	WASHER	1	1	1	1				
71	3	24315-000070	O-RING, 1BP7.0	1	1	1	1				
72	3	24315-000080	O-RING, 1BP8.0	2	2	2	2				
73	3	24315-000110	O-RING, 1BP11.0	1	1	1	1				
74	3	24315-000110	O-RING, 1BP11.0	1	1	1	1				
75	3	24315-000120	O-RING, 1BP12.0	3	3	3	3				
76	3	24325-000550	O-RING, 1BG55.0	1	1	1	1				

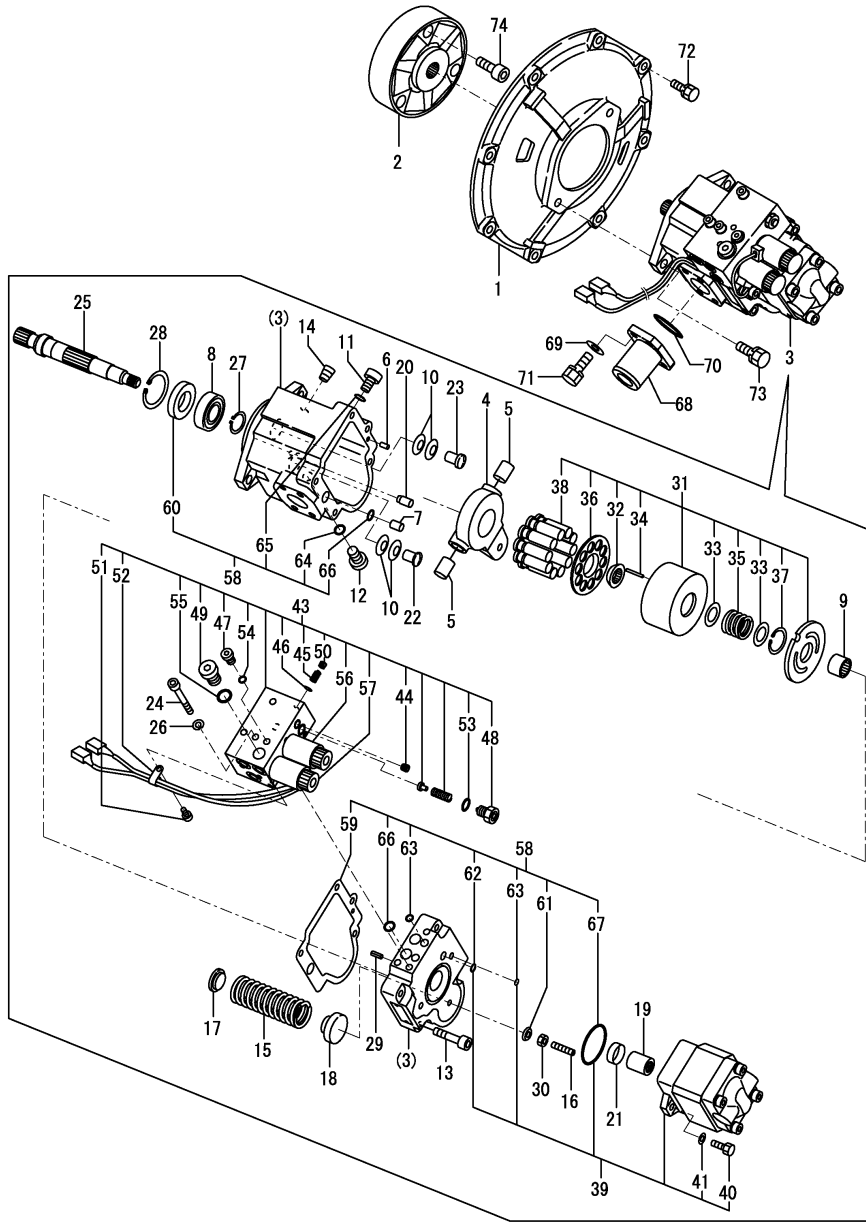
Remarks

- (1)For second gear traveling.
- (2)For safety lock.
- (3)For quick coupler.

Fig.118. (63A)HYD.OIL PUMP & JOINT(WITHOUT QUICK COUPLER SPEC.)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-4	COVER, FLYWHEEL	1	1	1	1				
2	1	172165-71200	COUPLING	1	1	1	1				
3	1	172458-73501	PUMP ASSY	1	1	1	1				
4	2	172422-73140	PLATE, SWASH	1	1	1	1				
5	2	172422-73160	PIN	2	2	2	2				
6	2	172422-73220	PIN	1	1	1	1				
7	2	172422-73280	PIN	1	1	1	1				
8	2	172422-73290	BEARING, BALL	1	1	1	1				
9	2	172422-73500	BEARING, NEEDLE	1	1	1	1				
10	2	172422-73520	SPRING	4	4	4	4				
11	2	172422-73530	PLUG	1	1	1	1				
12	2	172422-73530	PLUG	1	1	1	1				
13	2	172422-73540	BOLT	5	5	5	5				
14	2	172422-73550	PLUG	5	5	5	5				
15	2	172458-73550	SPRING	1	1	1	1				
16	2	172422-73560	SCREW	1	1	1	1				
17	2	172458-73560	HOLDER, SPRING	1	1	1	1				
18	2	172458-73570	GUIDE, SPRING	1	1	1	1				
19	2	172422-73580	COUPLING	1	1	1	1				
20	2	172458-73580	ROD	1	1	1	1				
21	2	172422-73590	COLLAR	1	1	1	1				
22	2	172458-73590	PIN, STOPPER	1	1	1	1				
23	2	172458-73600	PIN, STOPPER	1	1	1	1				
24	2	172422-73610	BOLT	3	3	3	3				
25	2	172458-73660	SHAFT	1	1	1	1				
26	2	22212-080000	WASHER 8	3	3	3	3				
27	2	22242-000250	RING, 25	1	1	1	1				
28	2	22252-000520	RING, 52	1	1	1	1				
29	2	22351-060016	PIN, SPRING 6.0X16	1	1	1	1				
30	2	26711-080002	NUT, M8	1	1	1	1				
31	2	172458-73510	BARREL KIT, CYLINDER	1	1	1	1				
32	3	172422-73130	HOLDER, BARREL	1	1	1	1				
33	3	172422-73250	RETAINER	2	2	2	2				
34	3	172458-73530	NEEDLE	3	3	3	3				
35	3	172458-73540	SPRING	1	1	1	1				
36	3	172458-73670	HOLDER, SHOE	1	1	1	1				
37	3	22252-000350	RING, 35	1	1	1	1				
38	3	172458-73520	PISTON ASSY, PUMP	1	1	1	1				
39	2	172458-73612	PUMP ASSY, GEAR	1	1	1	1				
40	3	172450-73120	BOLT	2	2	2	2				
41	3	172450-73130	WASHER	2	2	2	2				
43	2	172458-73620	BLOCK ASSY, VALVE	1	1	1	1				
43-1	2	172458-73621	BLOCK ASSY, VALVE	1	1	1	1				N
		(A=*2014.10.)	(B=*2014.10.)	(C=*2014.10.)	(D=*2014.10.)						
44	3	172422-73550	PLUG	7	7	7	7				
45	3	172422-73620	SPRING	1	1	1	1				
46	3	172422-73630	FILTER	1	1	1	1				
47	3	172458-73630	PLUG	1	1	1	1				
48	3	172422-73640	ADJUSTER KIT	1	1	1	1				
49	3	172458-73640	PLUG	1	1	1	1				
50	3	172422-73650	PLUG	2	2	2	2				

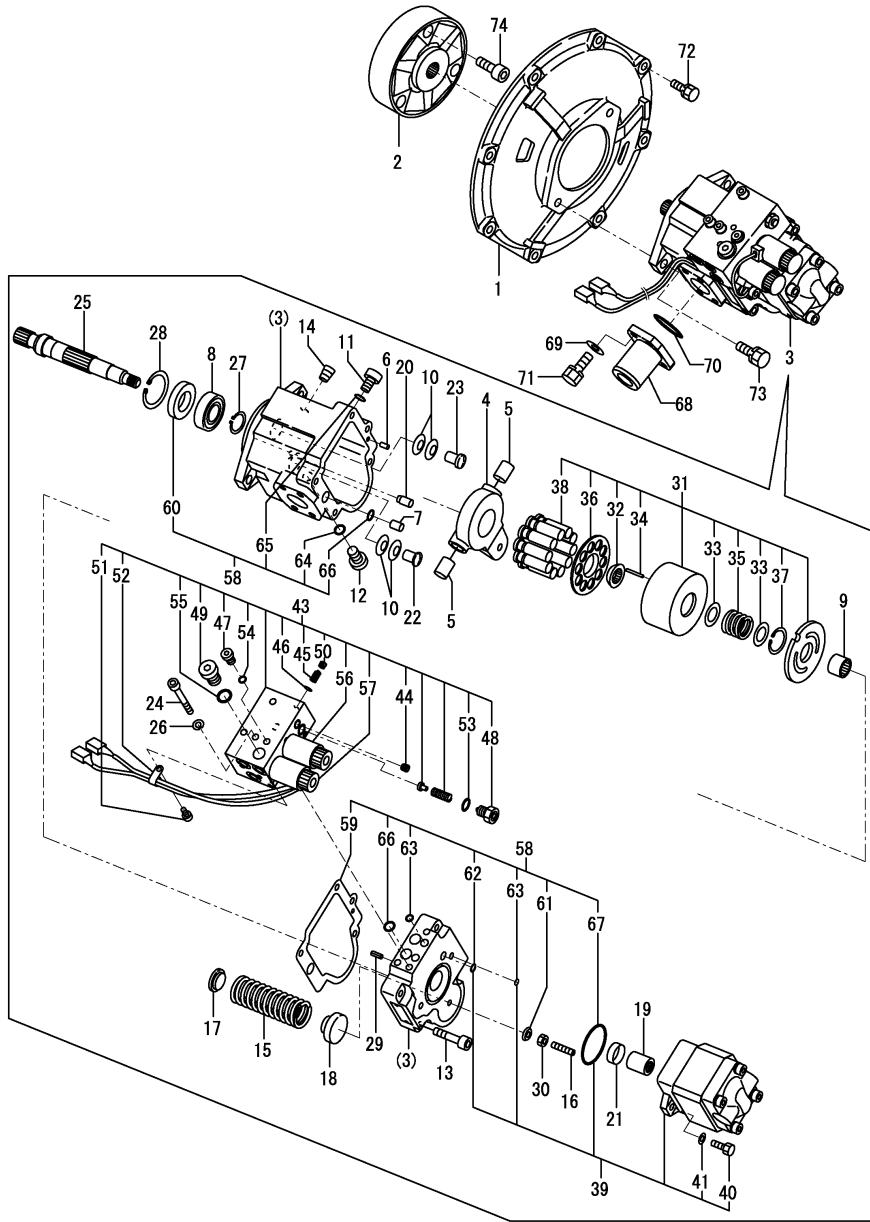
Remarks  
(1)For second gear traveling.  
(2)For safety lock.



Fig.118. (63A)HYD.OIL PUMP & JOINT(WITHOUT QUICK COUPLER SPEC.)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

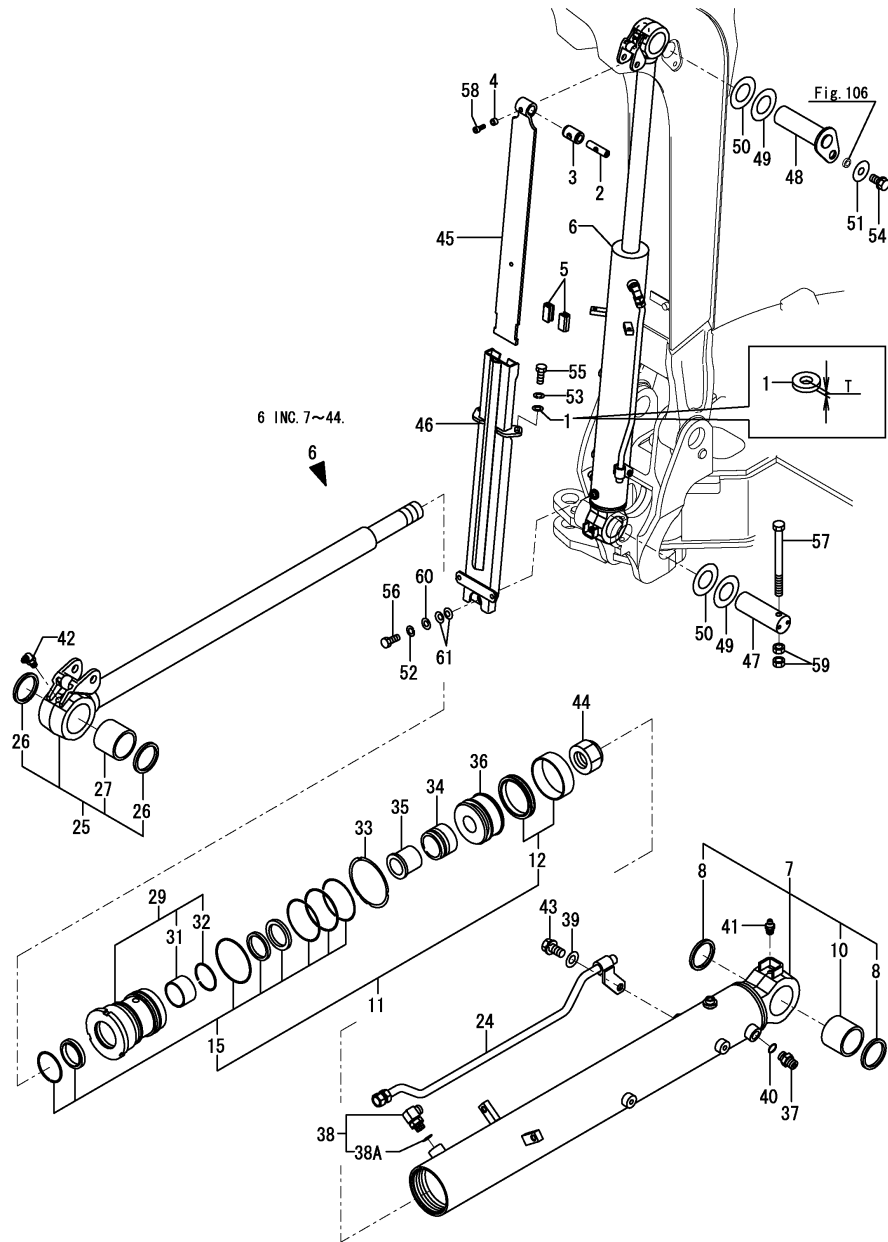
(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
51	3	172422-73660	BOLT	1	1	1	1				
52	3	172422-73670	CLAMP	1	1	1	1				
53	3	24311-000100	O-RING, 1AP10.0	1	1	1	1				
54	3	24315-000080	O-RING, 1BP8.0	1	1	1	1				
55	3	24315-000140	O-RING, 1BP14.0	1	1	1	1				
56	3	172458-73680	VALVE ASSY	1	1	1	1				1
57	3	172458-73690	VALVE ASSY	1	1	1	1				2
58	2	172422-73700	SEAL SET, PUMP	1	1	1	1				
59	3	172422-73170	GASKET	1	1	1	1				
60	3	172422-73510	SEAL, OIL	1	1	1	1				
61	3	172422-73570	WASHER	1	1	1	1				
62	3	24315-000070	O-RING, 1BP7.0	1	1	1	1				
63	3	24315-000080	O-RING, 1BP8.0	2	2	2	2				
64	3	24315-000110	O-RING, 1BP11.0	1	1	1	1				
65	3	24315-000110	O-RING, 1BP11.0	1	1	1	1				
66	3	24315-000120	O-RING, 1BP12.0	3	3	3	3				
67	3	24325-000550	O-RING, 1BG55.0	1	1	1	1				
68	1	172422-76100	FLANGE	1	1	1	1				
69	1	22117-100000	WASHER, 10	4	4	4	4				
70	1	24321-000400	O-RING, 1AG40.0	1	1	1	1				
71	1	26013-100302	BOLT, M10X 30	4	4	4	4				
72	1	26013-100302	BOLT, M10X 30	8	8	8	8				
73	1	26013-120352	BOLT, M12X 35	2	2	2	2				
74	1	26450-120402	BOLT, M12X 40	3	3	3	3				

Remarks  
 (1)For second gear traveling.  
 (2)For safety lock.

Fig.64. BOOM CYLINDER



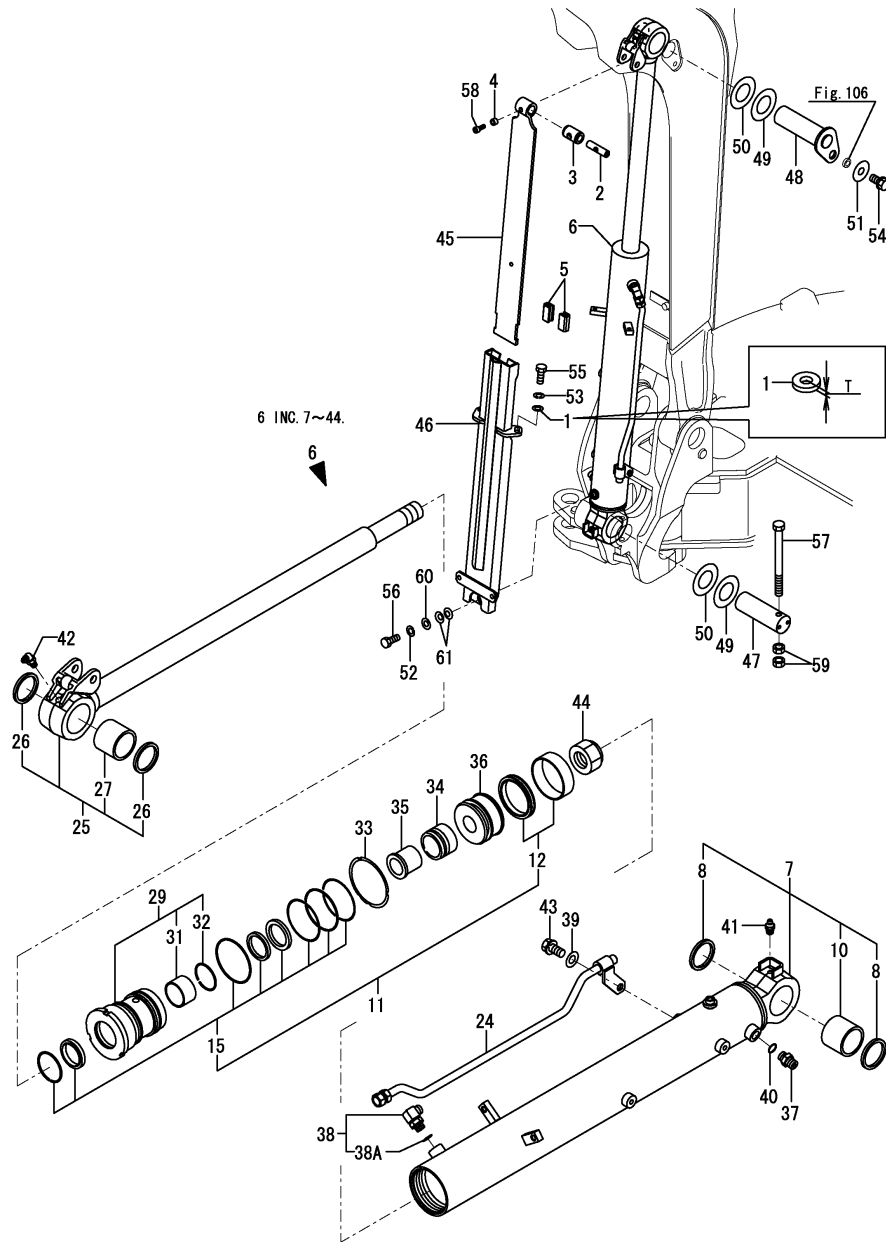
(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46042	SEAT, SPRING	2	2	2	2				
1-1	1	172A79-72570	WASHER	2	2	2	2			S 1	
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
2	1	172A23-72043	SHAFT	1	1	1	1				
3	1	172A23-72052	GROMMET	1	1	1	1				
4	1	172A46-72070	SPACER	1	1	1	1				
5	1	172A23-72081	GUIDE, SLIDE	2	2	2	2				
6	1	172A44-72101-2	CYLINDER ASSY, BOOM	1	1	1	1				
6-1	1	172A44-72101-N	CYLINDER ASSY, BOOM	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
7	2	172A44-72110-2	TUBE, BOOM	1	1	1	1				
7-1	2	172A44-72110-N	TUBE, BOOM	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
8	3	172448-54120	SEAL, DUST	2	2	2	2				
10	3	172458-72130	BUSH	1	1	1	1				
11	2	172A44-72160	SEAL SET, 80X45	1	1	1	1				
12	3	172487-72021	SEAL SET, PISTON	1	1	1	1				
15	3	172A44-72150	SEAL SET, HEAD 80X45	1	1	1	1				
24	2	172A44-72170-2	TUBE ASSY, BOOM	1	1	1	1				
24-1	2	172A44-72170-N	PIPE ASSY, BOOM	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
25	2	172A44-72201	ROD ASSY,BOOM	1	1	1	1				
26	3	172448-54120	SEAL, DUST	2	2	2	2				
27	3	172458-72130	BUSH	1	1	1	1				
29	2	172A44-72250	HEAD ASSY 80X45	1	1	1	1				
31	3	24550-045300	BUSH, 45X30	1	1	1	1				
32	3	933111-26600	RING, SPRING	1	1	1	1				
33	2	172142-72260	WASHER, LOCK	1	1	1	1				
34	2	172458-72260	PLUNGER, CUSHION	1	1	1	1				
35	2	172458-72290	COLLAR, CUSHION	1	1	1	1				
36	2	172422-72470	PISTON	1	1	1	1				
37	2	172730-75141	ADAPTER	1	1	1	1				
38	2	172142-76181	JOINT ASSY	1	1	1	1				
38A	3	24315-000140	O-RING, 1BP14.0	1	1	1	1			W	
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
39	2	22137-100000	WASHER, 10	1	1	1	1				
40	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
40-1	2	41851-000140	O-RING	1	1	1	1			N	
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
41	2	24761-020000	NIPPLE, GREASE PT1/8	1	1	1	1				
42	2	24761-040000	NIPPLE, GREASE B	1	1	1	1				
43	2	26013-100202	BOLT, M10X 20	1	1	1	1				
44	2	933111-20200	NUT	1	1	1	1				
45	1	172A25-72951-2	PLATE, SLIDE	1	1	1	1				
45-1	1	172A25-72951-N	PLATE, SLIDE	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
46	1	172A46-72950-2	GUIDE ASSY	1	1	1	1				
46-1	1	172A46-72950-N	GUIDE ASSY	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
47	1	172458-81831	PIN	1	1	1	1				
48	1	172A46-81910	PIN ASSY	1	1	1	1				

Remarks  
 (1)T=Ref.No.1:2mm, No.1-1:4.5mm.

Fig.64. BOOM CYLINDER



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

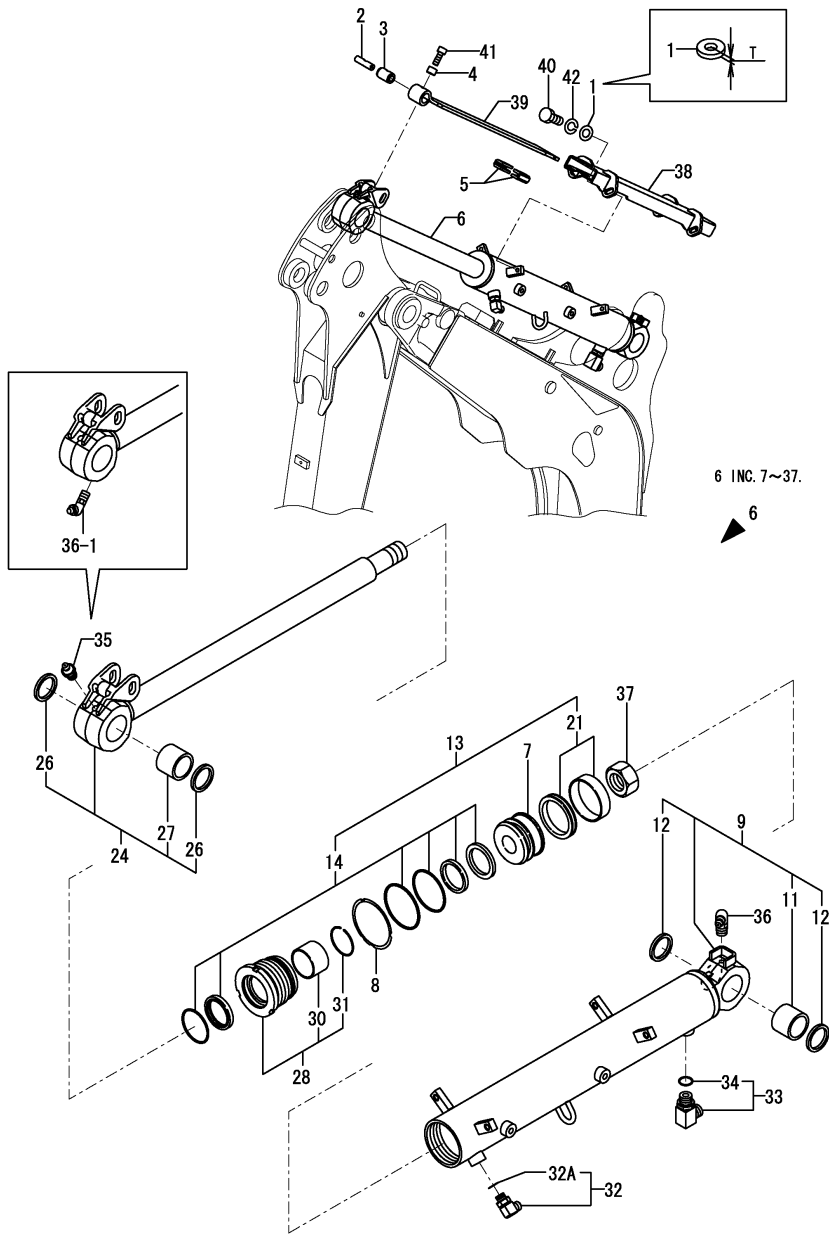
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
49	1	172165-82520	SHIM	2	2	2	2				
50	1	172165-82530	SHIM	2	2	2	2				
51	1	22157-120000	WASHER, 12	1	1	1	1				
52	1	22217-100000	WASHER, SPRING 10	1	1	1	1				
53	1	22217-100000	WASHER, SPRING 10	2	2	2	2				
54	1	26013-100252	BOLT, M10X 25	1	1	1	1				
55	1	26076-100202	BOLT, 10.910X 20	2	2	2	2				
55-1	1	26076-100252	BOLT, 10.910X 25	2	2	2	2				S
		(A=M53085)	(B=M53085)	(C=M53085)	(D=M53085)						
56	1	26116-100162	BOLT, M10X 16 PLATED	1	1	1	1				
57	1	26116-121402	BOLT, M12X165 PLATED	1	1	1	1				
58	1	172A47-72840	BOLT	1	1	1	1				
59	1	26716-120002	NUT, M12	2	2	2	2				
60	1	933147-03400	WASHER, BRAKE ARM	1	1	1	1				
61	1	933168-14170	SPRING	2	2	2	2				

Remarks  
 (1)T=Ref.No.1:2mm, No.1-1:4.5mm.

Fig.65. ARM CYLINDER

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46042	SEAT, SPRING	4	4	4	4				
1-1	1	172A79-72570	WASHER	4	4	4	4				S 1
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
2	1	172A23-72043	SHAFT	1	1	1	1				
3	1	172A23-72052	GROMMET	1	1	1	1				
4	1	172A46-72070	SPACER	1	1	1	1				
5	1	172A23-72081	GUIDE, SLIDE	2	2	2	2				
6	1	172A44-72300-2	CYLINDER ASSY, ARM	1	1	1	1				
6-1	1	172A44-72300-N	CYLINDER ASSY, ARM	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
7	2	172148-72050	PISTON	1	1	1	1				
8	2	172141-72190	WASHER, LOCK	1	1	1	1				
9	2	172A44-72310-2	TUBE ASSY, ARM	1	1	1	1				
9-1	2	172A44-72310-N	TUBE ASSY, ARM	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
11	3	172168-72410	BUSH	1	1	1	1				
12	3	172448-72650	SEAL, DUST	2	2	2	2				
13	2	172A44-72340	SEAL SET, 75X45	1	1	1	1				
14	2	172A44-72350	SEAL SET, HEAD 75X45	1	1	1	1				
21	3	172444-72961	SEAL SET, 75 40	1	1	1	1				
24	2	172A44-72400	ROD ASSY,ARM	1	1	1	1				
26	3	172448-72650	SEAL, DUST	2	2	2	2				
27	3	172151-72880	BUSH 40 50	1	1	1	1				
27-1	3	172A44-72230	BUSH, 40-50	1	1	1	1				N
		(A=M53008) (B=M53008) (C=M53008) (D=M53008)									
28	2	172A44-72450	HEAD ASSY 75X45	1	1	1	1				
30	3	24550-045300	BUSH, 45X30	1	1	1	1				
31	3	933111-26600	RING, SPRING	1	1	1	1				
32	2	172142-76181	JOINT ASSY	1	1	1	1				
32A	3	24315-000140	O-RING, 1BP14.0	1	1	1	1				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
33	2	172645-76560	CONNECTOR ASSY	1	1	1	1				
34	3	24315-000180	O-RING, 1BP18.0	1	1	1	1				
35	2	24761-020000	NIPPLE, GREASE PT1/8	1	1	1	1				Z
		(A=M53008) (B=M53008) (C=M53008) (D=M53008)									
36	2	24761-050000	NIPPLE, GREASE C	1	1	1	1				
36-1	2	24761-050000	NIPPLE, GREASE C	2	2	2	2				K
		(A=M53008) (B=M53008) (C=M53008) (D=M53008)									
37	2	933111-20200	NUT	1	1	1	1				
38	1	172A24-72900-2	GUIDE ASSY	1	1	1	1				
38-1	1	172A24-72900-N	GUIDE ASSY	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
39	1	172A24-72951-2	PLATE, SLIDE	1	1	1	1				
39-1	1	172A24-72951-N	PLATE, SLIDE	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
40	1	26076-100202	BOLT, 10.910X 20	4	4	4	4				
40-1	1	26076-100252	BOLT, 10.910X 25	4	4	4	4				S
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
41	1	172A47-72840	BOLT	1	1	1	1				
42	1	22217-100000	WASHER, SPRING 10	4	4	4	4				

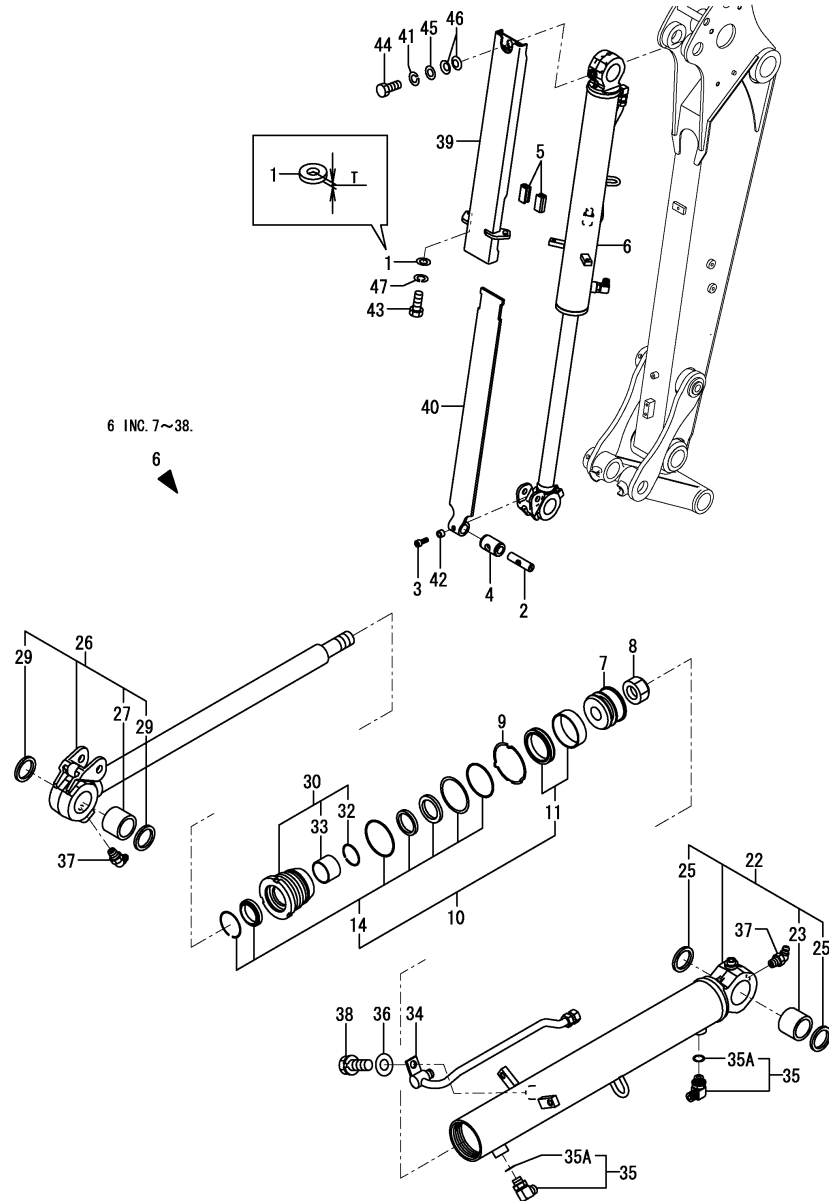
Remarks  
(1)T=Ref.No.1:2mm, No.1-1:4.5mm.

N:Old  $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \end{matrix}$  New, Q:Old  $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \end{matrix}$  New, R:Old  $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \end{matrix}$  New, S:Old  $\begin{matrix} \leftarrow \text{No} \\ \text{No} \end{matrix}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
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Fig.66. BUCKET CYLINDER(Y SPEC.)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46042	SEAT, SPRING	2	2	2	2				
1-1	1	172A79-72570	WASHER	2	2	2	2			S	1
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
2	1	172A23-72043	SHAFT	1	1	1	1				
3	1	172A47-72840	BOLT	1	1	1	1				
4	1	172A23-72052	GROMMET	1	1	1	1				
5	1	172A23-72081	GUIDE, SLIDE	2	2	2	2				
6	1	172A46-72502-2	CYLINDER ASSY	1	1	1	1				
6-1	1	172A46-72502-N	CYLINDER ASSY	1	1	1	1			S	2
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
7	2	172456-72190	PISTON	1	1	1	1				
8	2	172141-72250	NUT	1	1	1	1				
9	2	172141-72420	WASHER, LOCK	1	1	1	1				
10	2	172A46-72470	SEAL SET, CYLINDER	1	1	1	1				
11	3	172460-72070	SEAL SET, PISTON	1	1	1	1				
14	3	172A46-72590	SEAL SET, HEAD	1	1	1	1				
22	2	172A46-72511-2	TUBE, BUCKET	1	1	1	1				
22-1	2	172A46-72511-N	TUBE, BUCKET	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
23	3	172168-72240	BUSH	1	1	1	1				
25	3	172168-81270	SEAL, DUST	2	2	2	2				
26	2	172A46-72541	ROD ASSY, BUCKET	1	1	1	1				
27	3	172168-72240	BUSH	1	1	1	1				
29	3	172168-81270	SEAL, DUST	2	2	2	2				
30	2	172A46-72570	HEAD ASSY	1	1	1	1				
32	3	172141-73090	RING, SPRING	1	1	1	1				
33	3	24550-040300	BUSH, 40X30	1	1	1	1				
34	2	172A46-72601-2	PIPE ASSY, BUCKET	1	1	1	1				
34-1	2	172A46-72601-N	PIPE ASSY, BUCKET	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
35	2	172142-76181	JOINT ASSY	2	2	2	2				
35A	3	24315-000140	O-RING, 1BP14.0	2	2	2	2				W
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
36	2	22137-100000	WASHER, 10	1	1	1	1				
37	2	24761-040000	NIPPLE, GREASE B	2	2	2	2				
38	2	26013-100202	BOLT, M10X 20	1	1	1	1				
39	1	172A25-72900-2	GUIDE ASSY	1	1	1	1				
39-1	1	172A25-72900-N	GUIDE ASSY	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
40	1	172A25-72951-2	PLATE, SLIDE	1	1	1	1				
40-1	1	172A25-72951-N	PLATE, SLIDE	1	1	1	1			S	
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
41	1	22217-100000	WASHER, SPRING 10	1	1	1	1				
42	1	172A46-72070	SPACER	1	1	1	1				
43	1	26076-100202	BOLT, 10.910X 20	2	2	2	2				
43-1	1	26076-100252	BOLT, 10.910X 25	2	2	2	2			S	
		(A=M53085) (B=M53085) (C=M53085) (D=M53085)									
44	1	26116-100162	BOLT, M10X 16 PLATED	1	1	1	1				
45	1	933147-03400	WASHER, BRAKE ARM	1	1	1	1				
46	1	933168-14170	SPRING	2	2	2	2				
47	1	22217-100000	WASHER, SPRING 10	2	2	2	2				

Remarks

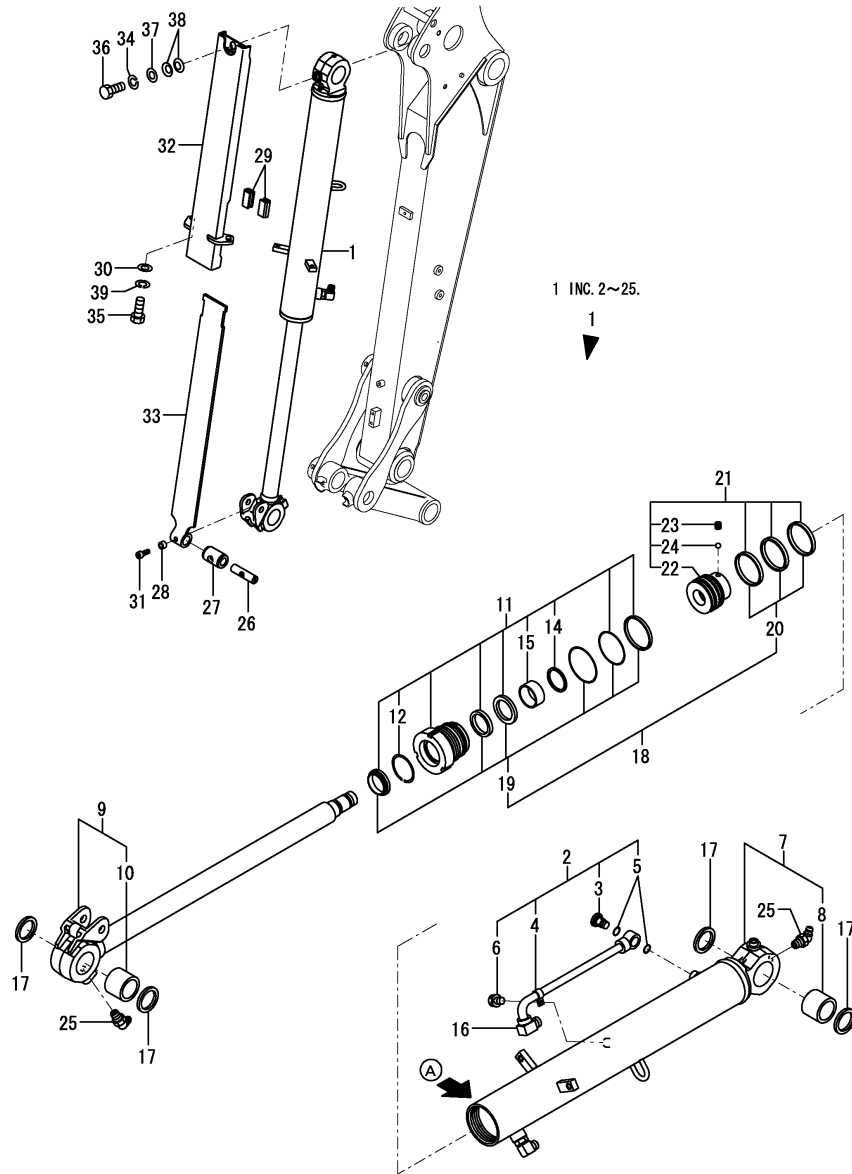
- (1)T=Ref.No.1:2mm, No.1-1:4.5mm.
- (2)Interchangeable by Fig.124(66A) No.1.

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

Fig.124. (66A)BUCKET CYLINDER(K SPEC.)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



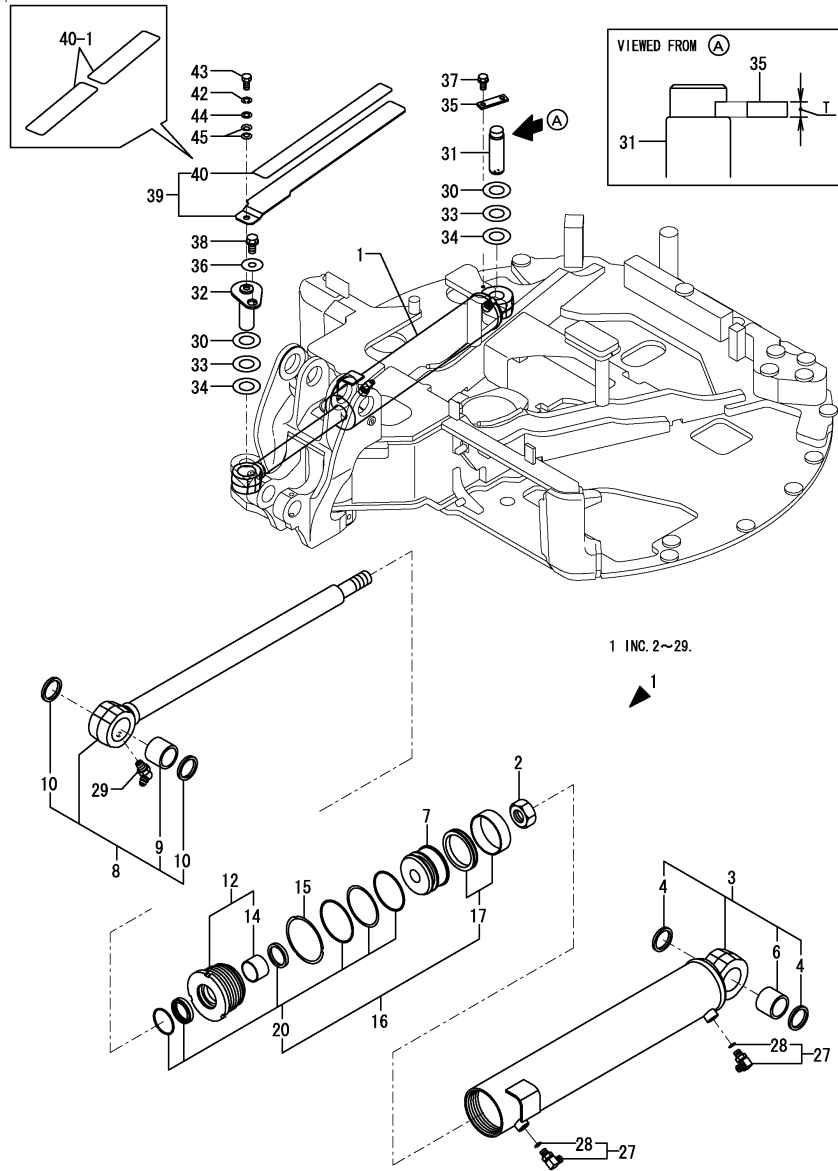
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A86-70700-N	CYLINDER ASSY,BT	1	1	1	1				
2	2	172A23-70600	PLUG ASSY	1	1	1	1				
3	3	172A23-70610	PLUG	1	1	1	1				
4	3	172A23-70620	HOLDER, PIPE	1	1	1	1				
5	3	24315-350220	O-RING, 1BP22A	2	2	2	2				
6	3	26013-080162	BOLT, M8X 16	1	1	1	1				
7	2	172A86-70710-N	TUBE ASSY	1	1	1	1				
8	3	172168-72240	BUSH	1	1	1	1				
9	2	172A86-70730	ROD ASSY	1	1	1	1				
10	3	172168-72240	BUSH	1	1	1	1				
11	2	172A86-70740	HEAD ASSY	1	1	1	1				
12	3	172A23-70210	RING, RETAINING	1	1	1	1				
14	3	172A86-70760	RING, SNAP	1	1	1	1				
15	3	172A23-71460	BEARING, SLEEVE	1	1	1	1				
16	2	172A86-70770	PIPE ASSY	1	1	1	1				
17	2	172168-81270	SEAL, DUST	4	4	4	4				
18	2	172A86-70790	SEAL KIT	1	1	1	1				
19	3	172A86-70800	SEAL KIT, HEAD	1	1	1	1				
20	3	172B04-72690	SEAL SET,PISTON 70	1	1	1	1				
21	2	172A23-71470	PISTON ASSY	1	1	1	1				
22	3	172A23-71480	PISTON	1	1	1	1				
23	3	172A79-72870	SCREW,M8	1	1	1	1				
24	3	24190-070002	BALL, STEEL 7/32	1	1	1	1				
25	2	24761-040000	NIPPLE, GREASE B	2	2	2	2				
26	1	172A23-72043	SHAFT	1	1	1	1				
27	1	172A23-72052	GROMMET	1	1	1	1				
28	1	172A46-72070	SPACER	1	1	1	1				
29	1	172A23-72081	GUIDE, SLIDE	2	2	2	2				
30	1	172A79-72570	WASHER	2	2	2	2				
31	1	172A47-72840	BOLT	1	1	1	1				
32	1	172A25-72900-N	GUIDE ASSY	1	1	1	1				
33	1	172A25-72951-N	PLATE, SLIDE	1	1	1	1				
34	1	22217-100000	WASHER, SPRING 10	1	1	1	1				
35	1	26076-100252	BOLT, 10.910X 25	2	2	2	2				
36	1	26116-100162	BOLT, M10X 16 PLATED	1	1	1	1				
37	1	933147-03400	WASHER, BRAKE ARM	1	1	1	1				
38	1	933168-14170	SPRING	2	2	2	2				
39	1	22217-100000	WASHER, SPRING 10	2	2	2	2				

Remarks

\* A : There is serial No.(172A86-70700).

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

Fig.67. SWING CYLINDER



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-72700	CYLINDER ASSY, SWING	1	1	1	1				
2	2	172141-72250	NUT	1	1	1	1				
3	2	172A46-72710	TUBE, SWING	1	1	1	1				
4	3	172448-72650	SEAL, DUST	2	2	2	2				
6	3	172458-72740	BUSH	1	1	1	1				
7	2	172459-72760	PISTON	1	1	1	1				
8	2	172A46-72800	ROD ASSY, SWING	1	1	1	1				
9	3	172165-72310	BUSH	1	1	1	1				
10	3	172448-72650	SEAL, DUST	2	2	2	2				
12	2	172A46-72850	HEAD ASSY	1	1	1	1				
14	3	24550-040300	BUSH, 40X30	1	1	1	1				
15	2	172151-72870	WASHER, LOCK	1	1	1	1				
16	2	172A46-72900	SEAL SET, CYLINDER	1	1	1	1				
17	3	172460-72050	SEAL SET, PISTON	1	1	1	1				
20	3	172A46-72910	SEAL SET, HEAD	1	1	1	1				
27	2	172141-76181	CONNECTOR ASSY, O2FF	2	2	2	2				
28	3	41851-000110	O-RING	2	2	2	2				
29	2	24761-050000	NIPPLE, GREASE C	1	1	1	1				
30	1	172A25-81900	SHIM	2	2	2	2				
31	1	172A46-81900	PIN	1	1	1	1				
31-1	1	172A46-81901	PIN	1	1	1	1				F 3
		(A=M53545) (B=M53545) (C=M53545) (D=M53545)									
32	1	172458-81930-W	PIN	1	1	1	1				
32-1	1	172458-81931	PIN ASSY, 40X117	1	1	1	1				N
		(A=M53831) (B=M53831) (C=M53831) (D=M53831)									
33	1	172165-82580	SHIM	2	2	2	2				
34	1	172165-82590	SHIM	2	2	2	2				
35	1	172117-83970-7	PLATE, LOCK	1	1	1	1				
35-1	1	172A47-81980	PLATE, LOCK	1	1	1	1				S 3
		(A=M53545) (B=M53545) (C=M53545) (D=M53545)									
36	1	22157-120000	WASHER, 12	1	1	1	1				
37	1	26013-100202	BOLT, M10X 20	2	2	2	2				
37-1	1	26013-100252	BOLT, M10X 25	2	2	2	2				S
		(A=M53545) (B=M53545) (C=M53545) (D=M53545)									
38	1	26013-120302	BOLT, M12X 30	1	1	1	1				
39	1	172A46-72870	COVER, SWING	1	1	1	1				1
40	2	172164-62430	SHEET	1	1	1	1				1
40-1	2	172164-62431	SHEET	2	2	2	2				F 2
		(A=M53156) (B=M53156) (C=M53156) (D=M53156)									
42	1	22217-100000	WASHER, SPRING 10	1	1	1	1				1
43	1	26116-100162	BOLT, M10X 16 PLATED	1	1	1	1				1
44	1	933147-03400	WASHER, BRAKE ARM	1	1	1	1				1
45	1	933168-14170	SPRING	2	2	2	2				1

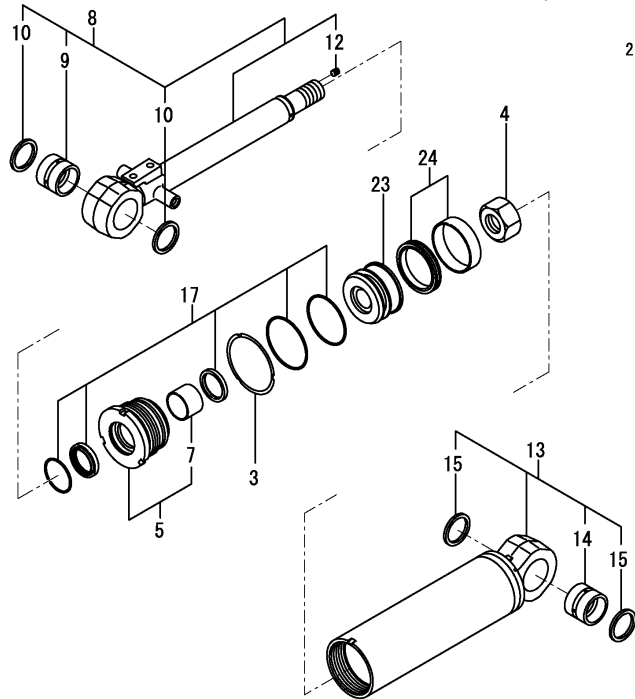
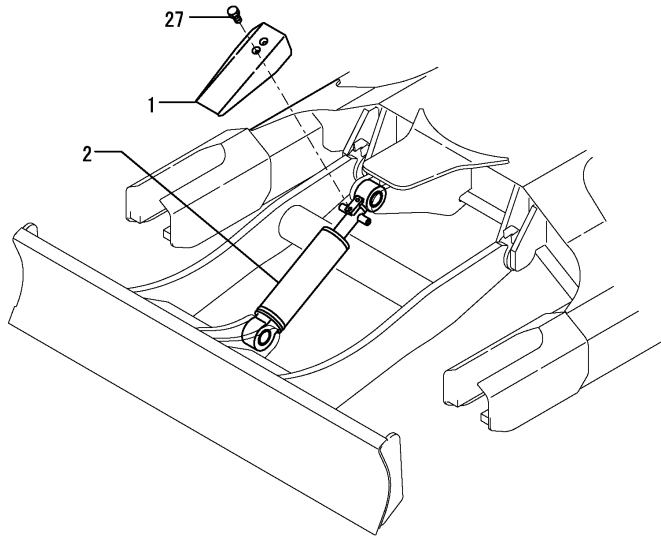
Remarks

- (1)Canopy spec.
  - (2)Please change two with a set.
  - (3)T=Ref.No.31,35:6mm, No.31-1,35-1:9mm.
- Interchangeable by simultaneous replacement with Ref.No.35-1,37-1.

Fig.68. BLADE CYLINDER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



2 INC. 3~24.

2

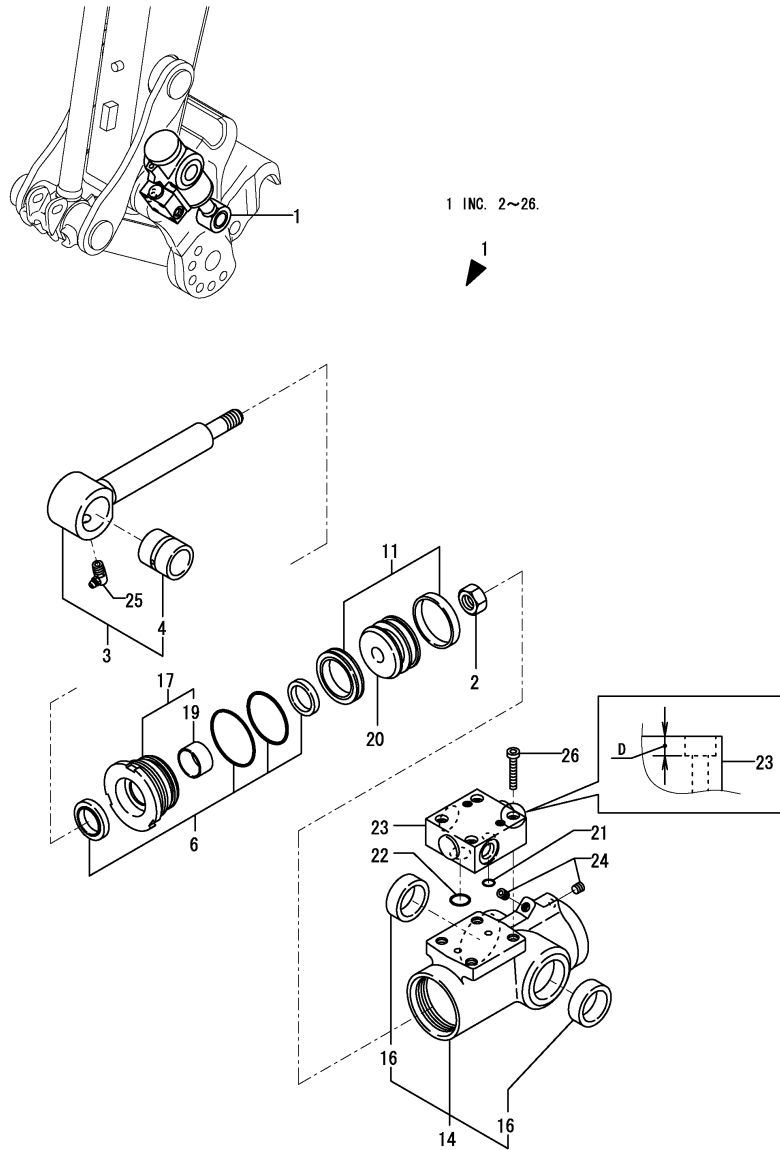
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172422-72791-2	COVER, BLADE	1	1	1	1				
2	1	172457-72900-2	CYLINDER, BLADE	1	1	1	1				
3	2	172141-72190	WASHER, LOCK	1	1	1	1				
4	2	172175-72550	NUT	1	1	1	1				
5	2	172141-72690	HEAD 75 40 W/BUSH	1	1	1	1				
7	3	24550-040300	BUSH, 40X30	1	1	1	1				
8	2	172458-72690	ROD ASSY, BLADE	1	1	1	1				
9	3	172168-72410	BUSH	1	1	1	1				
10	3	172448-72650	SEAL, DUST	2	2	2	2				
12	4	23871-005000	PLUG, R005	1	1	1	1				
13	2	172457-72930	TUBE ASSY, BLADE	1	1	1	1				
14	3	172168-72410	BUSH	1	1	1	1				
15	3	172448-72650	SEAL, DUST	2	2	2	2				
17	2	172444-72940	SEAL SET	1	1	1	1				
23	2	172457-72950	PISTON 75X30	1	1	1	1				
24	2	172444-72961	SEAL SET, 75 40	1	1	1	1				
27	1	26013-100162	BOLT, M10X 16	2	2	2	2				



Fig.69. HITCH CYLINDER(QUICK COUPLER)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

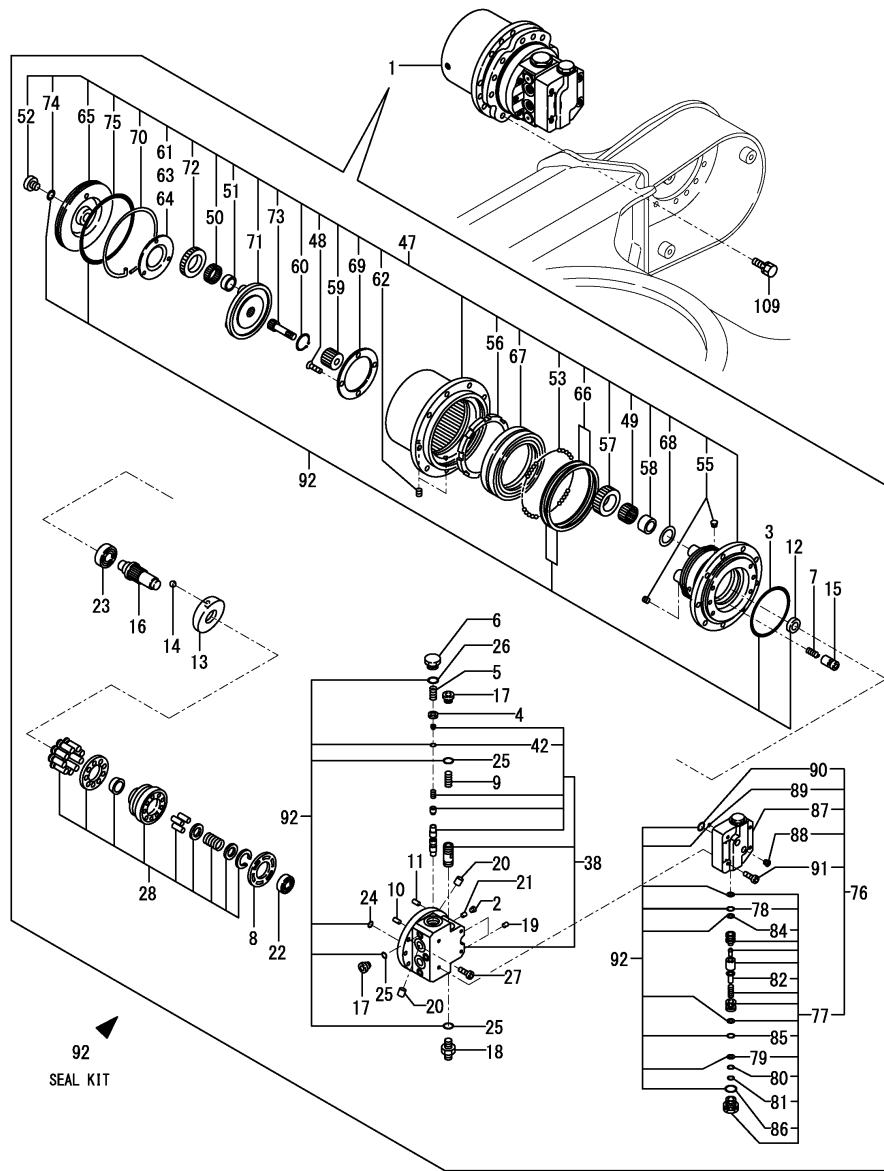


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-72801-2	CYLINDER ASSY, HITCH	1	1	1	1				
1-1	1	172958-72801-N	CYLINDER ASSY, HITCH	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
2	2	172156-72400	NUT	1	1	1	1				
3	2	172958-72750	ROD ASSY, HITCH	1	1	1	1				
4	3	172156-72770	BUSH, PIN	1	1	1	1				
6	2	172958-72760	SEAL SET, HEAD	1	1	1	1				
11	2	172958-72770	SEAL SET, PISTON	1	1	1	1				
14	2	172958-72811-1	TUBE, HITCH	1	1	1	1				
14-1	2	172958-72811-N	TUBE, HITCH	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
16	3	172958-72970	BUSH	2	2	2	2				
17	2	172958-72860	HEAD ASSY	1	1	1	1				
19	3	24550-025150	BUSH, 25X15	1	1	1	1				
20	2	172958-72890	PISTON	1	1	1	1				
21	2	172958-72950	O-RING	1	1	1	1				
22	2	172958-72960	O-RING	1	1	1	1				
23	2	172958-72982-2	VALVE, CHECK	1	1	1	1				
23-1	2	172958-72983	VALVE ASSY, OPERATE	1	1	1	1				F 1
		(A=M53634) (B=M53634) (C=M53634) (D=M53634)									
23-2	2	172958-72983-N	VALVE ASSY, OPERATE	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
24	2	23871-005000	PLUG, R005	2	2	2	2				
25	2	24761-050000	NIPPLE, GREASE C	1	1	1	1				
26	2	26450-060352	BOLT, M6X 35	4	4	4	4				
26-1	2	26450-060302	BOLT, M6X 30	4	4	4	4				S
		(A=M53634) (B=M53634) (C=M53634) (D=M53634)									

Remarks

(1)D=Ref.No.23:4mm, No.23-1:8mm.  
 Interchangeable by simultaneous replacement with Ref.No.26-1.

Fig.70. TRAVEL MOTOR



(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=

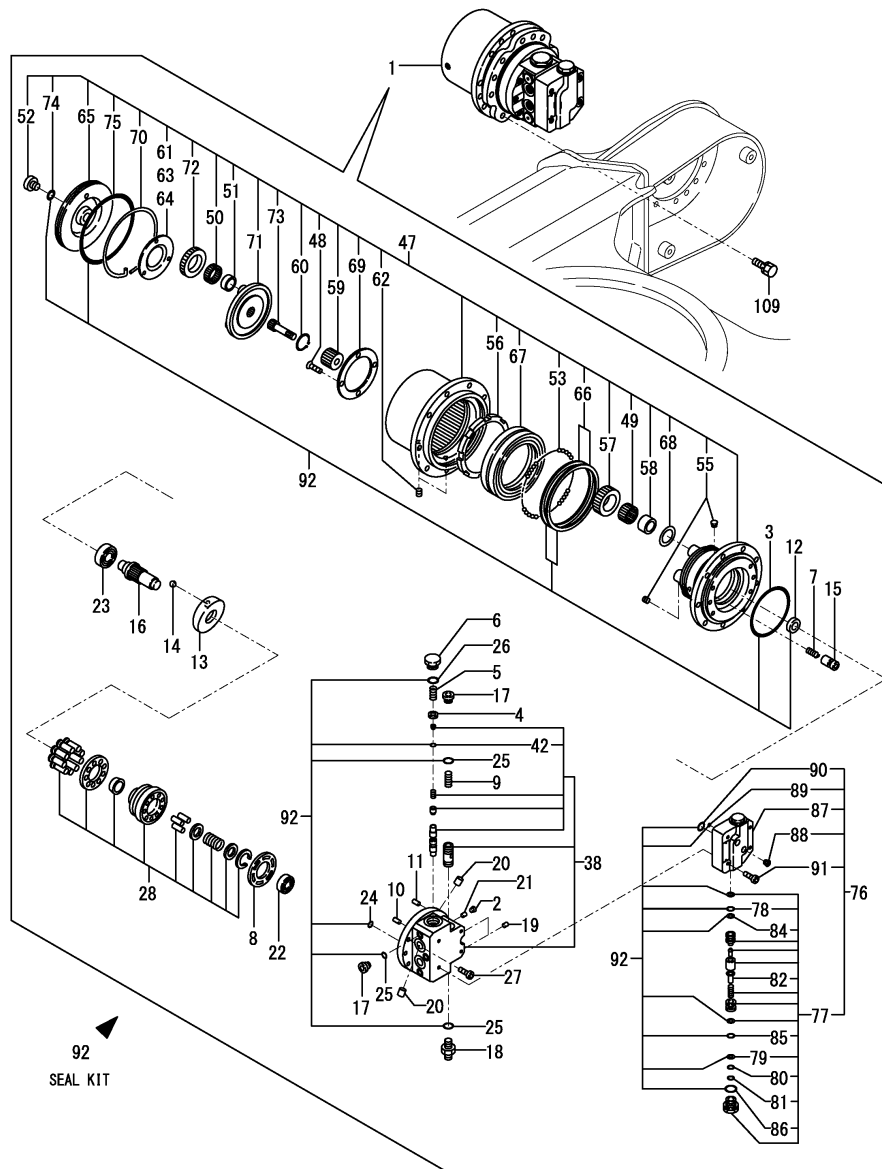
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172457-73701	MOTOR ASSY, TRAVEL	2	2	2	2				
2	2	172147-70220	PLUG	4	4	4	4				
3	2	172141-70370	O-RING	2	2	2	2				
4	2	172141-70450	SEAT, SPRING	4	4	4	4				
5	2	172141-70460	SPRING	4	4	4	4				
6	2	172141-70470	CAP	4	4	4	4				
7	2	172168-71951	SPRING	4	4	4	4				
8	2	172638-73330	PLATE, VALVE	2	2	2	2				
9	2	172421-73400	SPRING	2	2	2	2				
10	2	172122-73470	PIN	2	2	2	2				
11	2	172122-73480	PIN	4	4	4	4				
12	2	172450-73490	SEAL, OIL	2	2	2	2				
13	2	172450-73501	PLATE, SWASH	2	2	2	2				
14	2	172450-73510	BALL, STEEL	4	4	4	4				
15	2	172450-73551	PISTON ASSY	4	4	4	4				
16	2	172183-73670	SHAFT	2	2	2	2				
17	2	172183-73770	PLUG	6	6	6	6				
17-1	2	172148-70301	PLUG	6	6	6	6				R
(A=M53005) (B=M53005) (C=M53005) (D=M53005)											
18	2	172183-73780	PLUG	2	2	2	2				
19	2	172183-73870	PLUG	8	8	8	8				
20	2	172312-74790	ORIFICE	4	4	4	4				
21	2	172312-74790	ORIFICE	8	8	8	8				
22	2	24101-060024	BEARING, BALL 6002	2	2	2	2				
23	2	24101-060044	BEARING, BALL 6004	2	2	2	2				
24	2	24315-000070	O-RING, 1BP7.0	6	6	6	6				
25	2	24315-000110	O-RING, 1BP11.0	8	8	8	8				
26	2	24315-000240	O-RING, 1BP24.0	4	4	4	4				
27	2	26450-080202	BOLT, M8X 20	12	12	12	12				
28	2	172450-73620	BLOCK KIT, CYLINDER	2	2	2	2				
28-1	2	172450-73621	CYLINDER BLOCK KIT	2	2	2	2				N
(A=M54947) (B=M54454) (C=M54942) (D=M54945)											
38	2	172421-73450	BASE PLATE ASSY	2	2	2	2				
42	4	172141-70440	O-RING	4	4	4	4				
47	2	172457-73720	GEAR, REDUCTION	2	2	2	2				
48	3	172141-70110	SCREW	8	8	8	8				
49	3	172147-70120	GAUGE ASSY	8	8	8	8				
50	3	172141-70150	GAUGE, W/ROLLER	6	6	6	6				
51	3	172141-70160	RACE, INNER	6	6	6	6				
52	3	172148-70301	PLUG	4	4	4	4				
53	3	172122-70350	BALL, STEEL	218	218	218	218				
55	3	172450-73330	PLUG	4	4	4	4				
56	3	172456-73350	NUT, RING	2	2	2	2				
56-1	3	172456-73351	NUT, RING	2	2	2	2				N
(A=M53094) (B=M53094) (C=M53094) (D=M53094)											
57	3	172456-73360	GEAR, PLANETARY	8	8	8	8				
58	3	172456-73370	INNER RACE	8	8	8	8				
59	3	172456-73380	GEAR, SUN	2	2	2	2				
59-1	3	172456-73980	GEAR, SUN	2	2	2	2				R
(A=M53094) (B=M53094) (C=M53094) (D=M53094)											
60	3	172456-73390	SNAP RING	2	2	2	2				

Remarks  
(1)A package contains 2 floating seals.  
1 package par 1 travel motor.

Fig.70. TRAVEL MOTOR

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



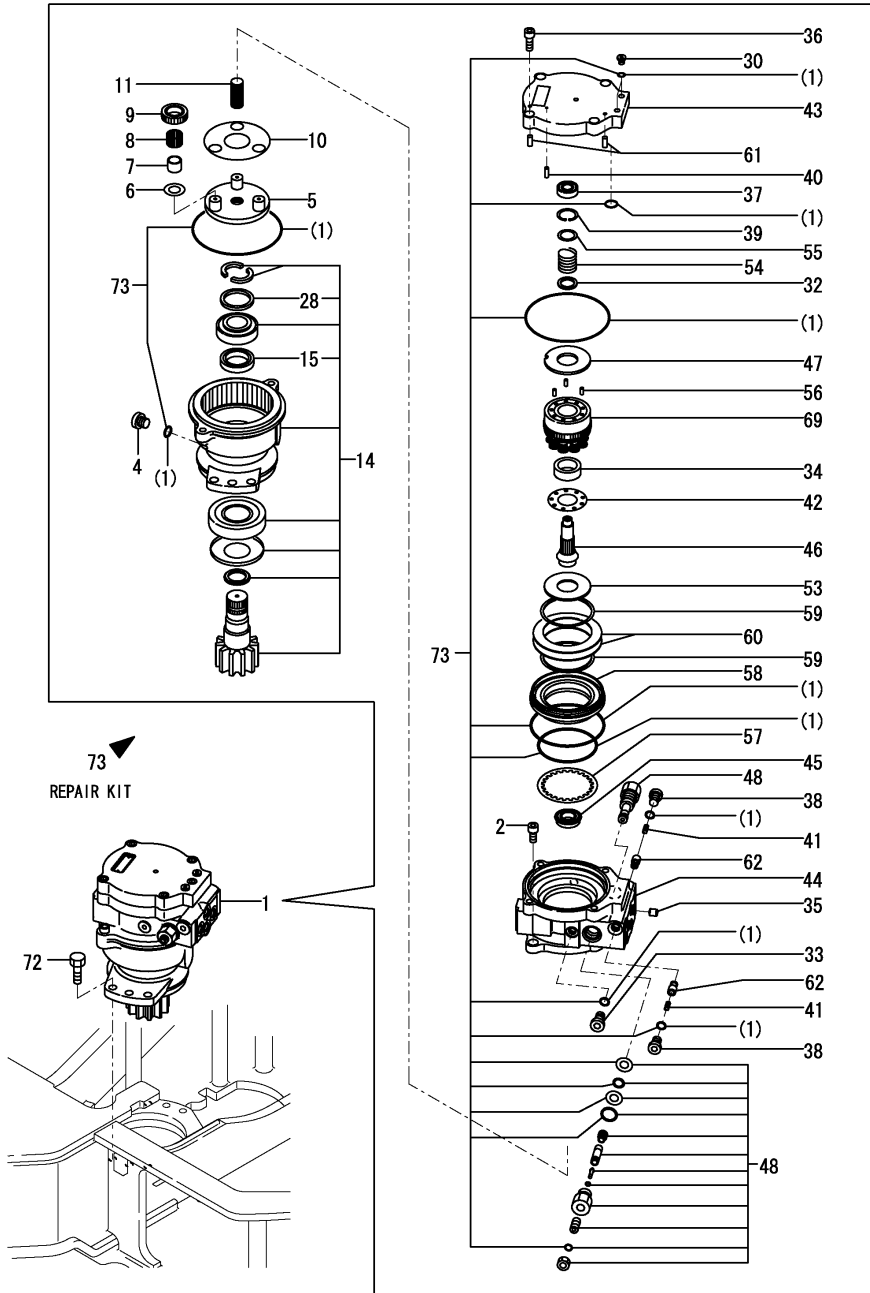
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
61	3	172456-73420	THRUST PLATE	2	2	2	2				
62	3	172122-73430	PLUG	4	4	4	4				
63	3	172456-73430	THRUST PLATE	2	2	2	2				
64	3	172456-73440	THRUST PLATE	2	2	2	2				
65	3	172456-73450	COVER	2	2	2	2				
66	3	172183-73510	SEAL, FLOATING	2	2	2	2				1
67	3	172183-73520	BEARING	2	2	2	2				
68	3	172183-73560	WASHER, THRUST	8	8	8	8				
69	3	172183-73570	PLATE, THRUST	2	2	2	2				
70	3	172183-73660	WIRE	2	2	2	2				
71	3	172457-73730	HOLDER	2	2	2	2				
72	3	172457-73740	GEAR, PLANETARY	6	6	6	6				
73	3	172457-73770	GEAR, DRIVE	2	2	2	2				
74	3	24315-000110	O-RING, 1BP11.0	4	4	4	4				
75	3	24315-001300	O-RING, 1BP130.0	2	2	2	2				
76	2	172457-73750	VALVE ASSY	2	2	2	2				
77	3	172457-73760	VALVE ASSY, RELIEF	4	4	4	4				
78	4	172147-70580	RING, BUCK UP	8	8	8	8				
79	4	172147-70600	RING P15,T3,BACKUP	8	8	8	8				
80	4	172147-70610	SHIM	4	4	4	4				
81	4	172162-70760	SHIM	12	12	12	12				
82	4	172173-73440	ORIFICE	4	4	4	4				
84	4	24315-000120	O-RING, 1BP12.0	4	4	4	4				
85	4	24315-000150	O-RING, 1BP15.0	4	4	4	4				
86	4	24315-000240	O-RING, 1BP24.0	4	4	4	4				
87	3	172183-73810	VALVE BODY	2	2	2	2				
88	3	23871-020000	PLUG, R02	4	4	4	4				
89	3	24315-000070	O-RING, 1BP7.0	6	6	6	6				
90	3	24315-000100	O-RING, 1BP10.0	4	4	4	4				
91	3	26450-060402	BOLT, M6X 40	8	8	8	8				
92	1	172421-73440	SEAL SET	2	2	2	2				
92-1	1	172457-73800	SEAL SET, MOTOR	1	1	1	1				N
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
109	1	26013-100252	BOLT, M10X 25	24	24	24	24				

Remarks  
 (1)A package contains 2 floating seals.  
 1 package par 1 travel motor.

Fig.71. TURNING MOTOR

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

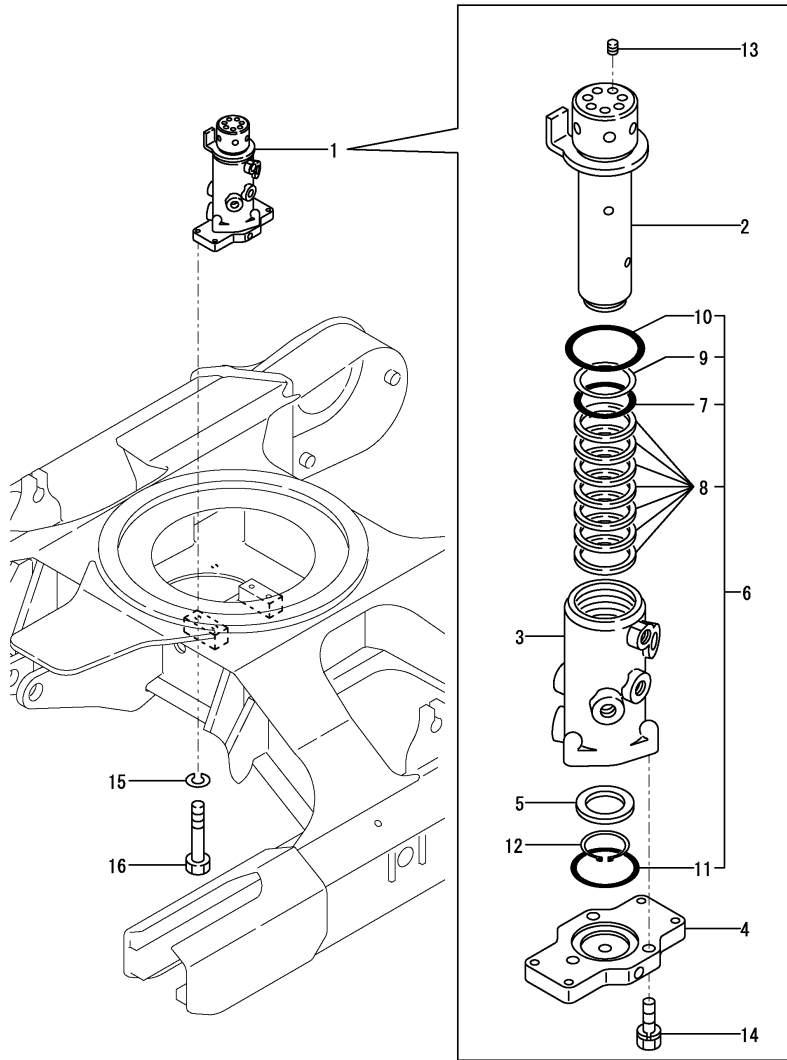


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-73712	MOTOR ASSY, SWING	1	1	1	1				
2	2	172124-70390	BOLT, SOCKET	2	2	2	2				
4	2	1A6240-37360	PLUG	1	1	1	1				
5	2	172450-73830	COLLAR	1	1	1	1				
6	2	172450-73850	WASHER, THRUST	3	3	3	3				
7	2	172450-73860	RACE, INNER	3	3	3	3				
8	2	172450-73870	BEARING, NEEDLE	3	3	3	3				
9	2	172458-73970	GEAR, PLANETARY	3	3	3	3				
10	2	172458-73980	PLATE, THRUST	1	1	1	1				
11	2	172458-73990	GEAR, DRIVE	1	1	1	1				
14	2	172458-74350	HOUSING ASSY	1	1	1	1				
14-1	2	172A45-73720	HOUSING ASSY	1	1	1	1				N
(A=M53001) (B=M53001) (C=M53001) (D=M53001)											
15	3	172450-73751	SEAL, OIL	1	1	1	1				
28	3	172458-73960	COLLAR	1	1	1	1				
30	2	1A6240-37360	PLUG	2	2	2	2				
32	2	172147-70280	COLLAR	1	1	1	1				
33	2	172148-70301	PLUG	1	1	1	1				
34	2	172147-70330	HOLDER, RETAINER	1	1	1	1				
34-1	2	172147-70331	HOLDER, RETAINER	1	1	1	1				S
(A=M53045) (B=M53045) (C=M53045) (D=M53045)											
35	2	172124-70380	ORIFICE	1	1	1	1				
36	2	172124-70390	BOLT, SOCKET	5	5	5	5				
37	2	172147-70390	BEARING, BALL	1	1	1	1				
38	2	172147-70500	PLUG	2	2	2	2				
39	2	172122-70630	RING, SNAP	1	1	1	1				
40	2	172122-73470	PIN	1	1	1	1				
41	2	172638-73470	SPRING	2	2	2	2				
42	2	172423-73530	PLATE, RETAINER	1	1	1	1				
43	2	172459-73740	COVER	1	1	1	1				
44	2	172A45-73730	CASE	1	1	1	1				
45	2	172458-74310	BALL BEARING	1	1	1	1				
46	2	172458-74320	SHAFT	1	1	1	1				
47	2	172458-74330	PLATE, VALVE	1	1	1	1				
48	2	172458-74340	VALVE ASSY, RELIEF	2	2	2	2				
53	2	172450-77050	PLATE, THRUST	1	1	1	1				
54	2	172450-77070	SPRING	1	1	1	1				
55	2	172450-77080	WASHER	1	1	1	1				
56	2	172450-77090	PIN	3	3	3	3				
57	2	172450-77110	DISK	1	1	1	1				
58	2	172450-77120	PISTON, BRAKE	1	1	1	1				
59	2	172450-77130	SEAT, SPRING	2	2	2	2				
60	2	172450-77140	SPRING ASSY, DISK	1	1	1	1				
61	2	172450-77170	PIN	2	2	2	2				
62	2	172450-77190	VALVE, CHECK	2	2	2	2				
69	2	172450-77220	BLOCK KIT, CYLINDER	1	1	1	1				
72	1	172455-29140	BOLT	6	6	6	6				
73	1	172458-74910	REPAIR KIT	1	1	1	1				

Fig.72. SWIVEL JOINT(Y SPEC.)(TO M54434)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-73803 (A=M54435) (B=M54435) (C=M54435) (D=M54435)	JOINT ASSY, SWIVEL	1	1	1	1			Z	1
2	2	172444-73810	SHAFT ASSY, SWIVEL	1	1	1	1				
3	2	172444-73831	HUB, SWIVEL	1	1	1	1				
4	2	172444-73840	FLANGE, SWIVEL	1	1	1	1				
5	2	172137-73860	SPACER, SWIVEL	1	1	1	1				
6	2	172444-73880	SEAL SET, SWIVEL	1	1	1	1				
7	3	172142-73800	O-RING	1	1	1	1				
8	3	172447-73840	SEAL	7	7	7	7				
9	3	172148-73870	RING, BUCK UP	1	1	1	1				
10	3	24311-000750	O-RING, 1AP75.0	1	1	1	1				
11	3	24321-000700	O-RING, 1AG70.0	1	1	1	1				
12	2	22242-000451	RING, 45	1	1	1	1				
13	2	23871-020000	PLUG, R02	7	7	7	7				
14	2	26013-100352	BOLT, M10X 35	3	3	3	3				
15	1	22217-100000	WASHER, SPRING 10	4	4	4	4				
16	1	26116-100652	BOLT, M10X 65 PLATED	4	4	4	4				

Remarks

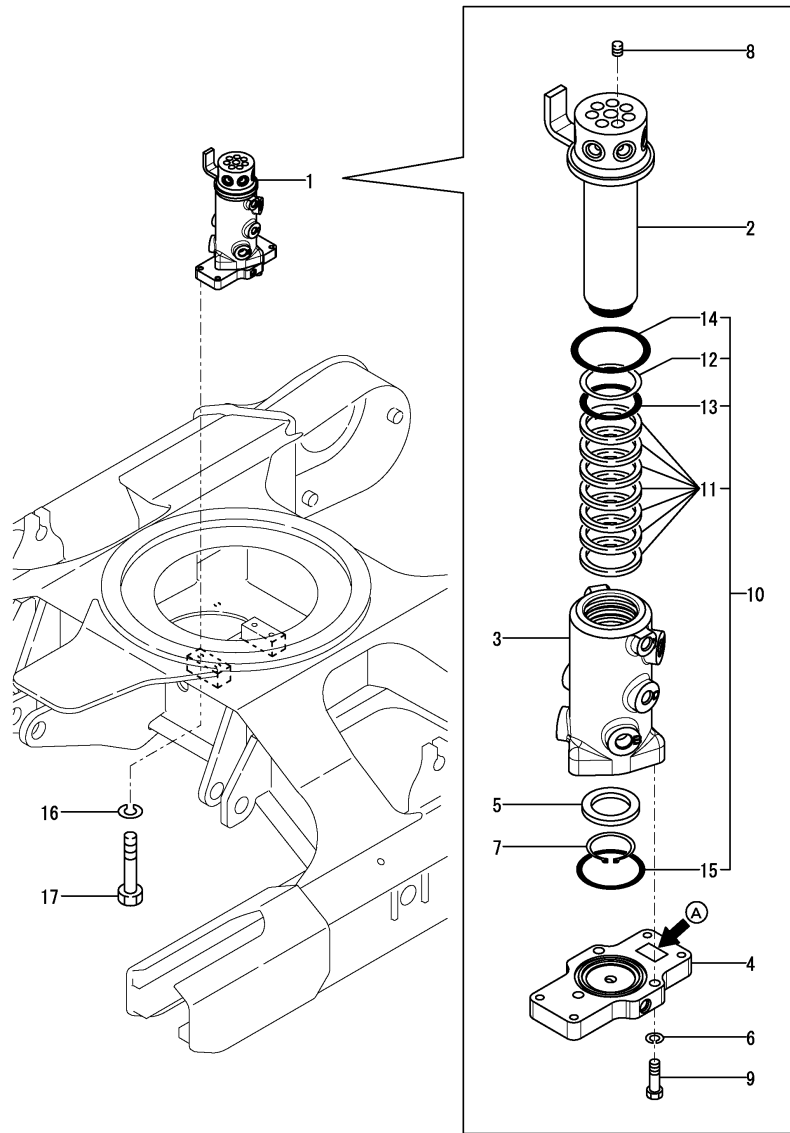
(1)Compatibility by assembly exchange with parts of Fig.122(72A) Ref.No.1.

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

Fig.122. (72A)SWIVEL JOINT(N SPEC.)(FROM M54435)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

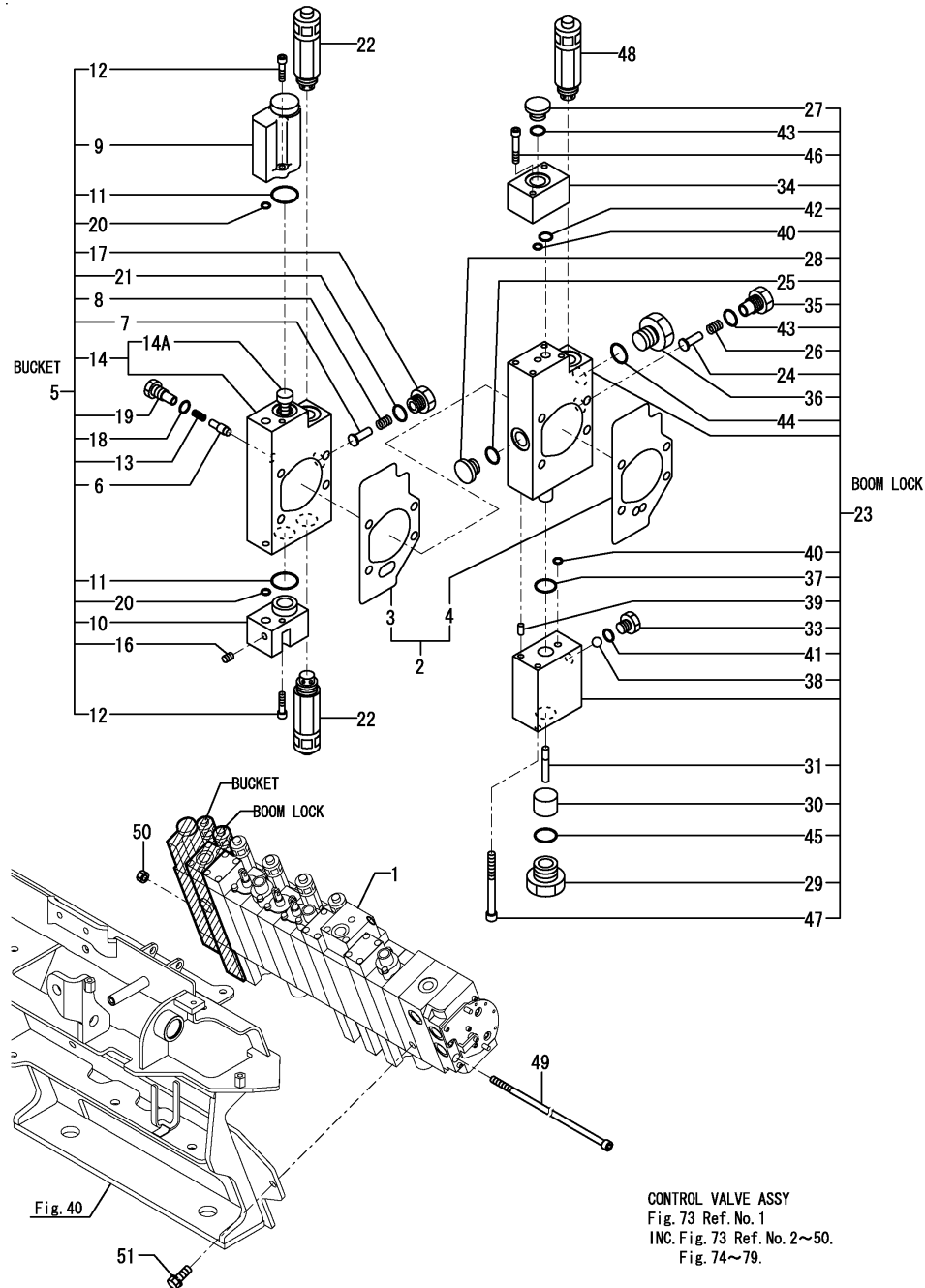
(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172B02-73800	JOINT ASSY, SWIVEL (A=M54435) (B=M54435) (C=M54435) (D=M54435)	1	1	1	1				W	1
2	2	172B02-73810	SHAFT ASSY, SWIVEL	1	1	1	1					
3	2	172B02-73840	HUB, SWIVEL	1	1	1	1					
4	2	172B02-73850	FLANGE, SWIVEL	1	1	1	1					
5	2	172B02-73860	SPACER, SWIVEL	1	1	1	1					
6	2	22217-100000	WASHER, SPRING 10	3	3	3	3					
7	2	22242-000451	RING, 45	1	1	1	1					
8	2	23871-020000	PLUG, R02	7	7	7	7					
9	2	26076-100352	BOLT, 10.910X 35	3	3	3	3					
10	2	172B02-73900	SEAL KIT, SWIVEL	1	1	1	1					
10-1	2	172B02-73910	SEAL KIT, SWIVEL	1	1	1	1					N
		(A=*2014.04) (B=*2014.04) (C=*2014.04) (D=*2014.04)										
11	3	172B02-73870	SEAL, SWIVEL	7	7	7	7					
11-1	3	172B02-73890	SEAL, SWIVEL	7	7	7	7					N
		(A=*2014.04) (B=*2014.04) (C=*2014.04) (D=*2014.04)										
12	3	172B02-73880	RING, BACKUP T3 55	1	1	1	1					
13	3	24315-000560	O-RING, 1BP56.0	1	1	1	1					
14	3	24315-000750	O-RING, 1BP75.0	1	1	1	1					
15	3	24325-000700	O-RING, 1BG70.0	1	1	1	1					
16	1	22217-100000	WASHER, SPRING 10	4	4	4	4					
17	1	26116-100652	BOLT, M10X 65 PLATED	4	4	4	4					

Remarks  
 (1)A:'NACHI' Label.

Fig.73. CONTROL VALVE(SG:1/7)



CONTROL VALVE ASSY  
 Fig. 73 Ref. No. 1  
 INC. Fig. 73 Ref. No. 2~50.  
 Fig. 74~79.

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

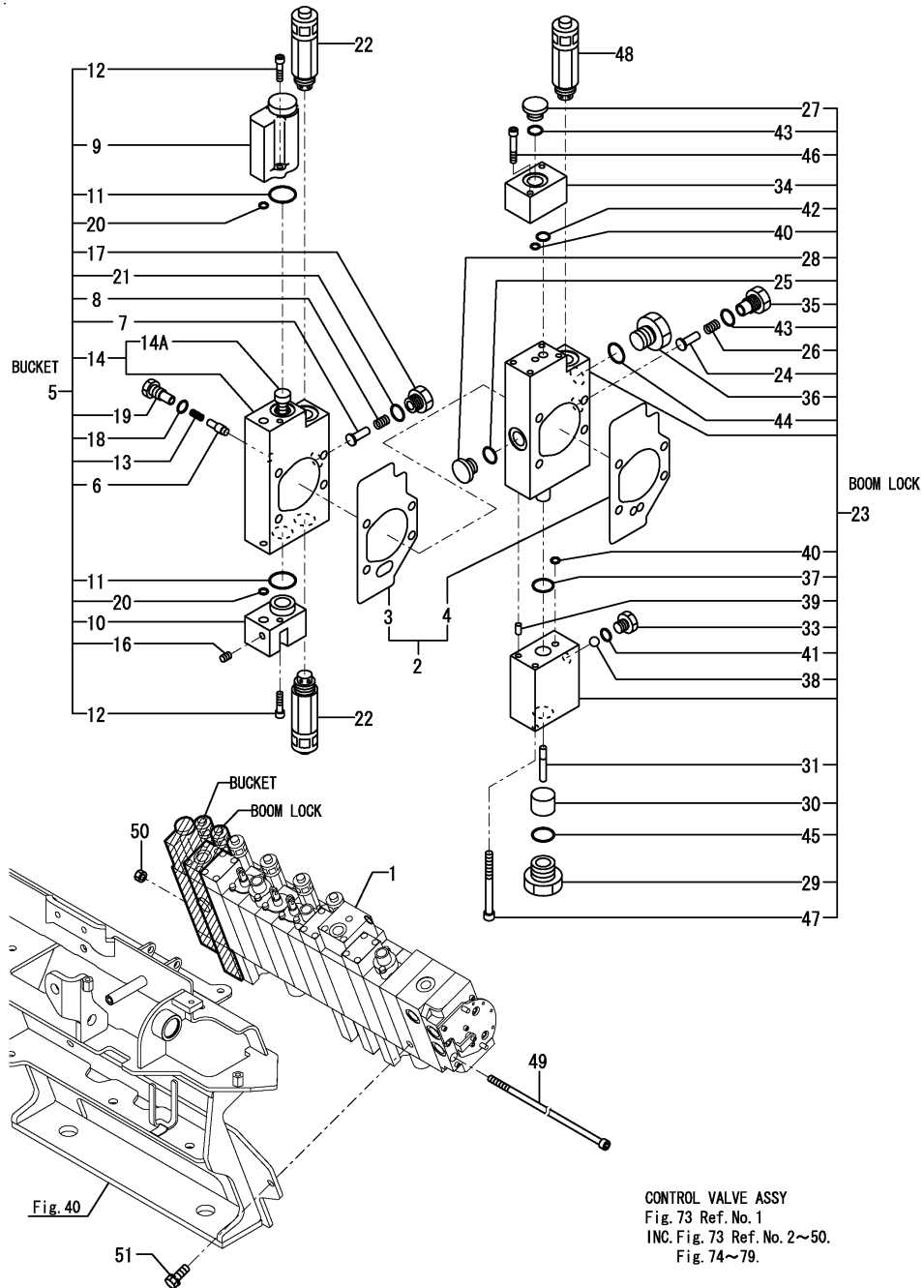
(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172A44-74101	VALVE ASSY,CONTROL				1					
1-1	1	172A44-74102	VALVE ASSY,CONTROL				1					N
			(D=M53318)									
2	2	172A46-74330	GASKET SET				1					
3	3	172A47-75430	GASKET				11					
4	3	172A47-75440	GASKET				1					
5	2	172A46-74370	SECTION, BUCKET				1					
6	3	172499-70180	VALVE ASSY, REVERSE				1					
7	3	172458-74150	VALVE, REVERSE				1					
8	3	172458-74160	SPRING, VALVE				1					
9	3	172A47-74220	COVER, PILOT				1					
10	3	172A47-74230	COVER, PILOT				1					
11	3	172458-74230	O-RING				2					
12	3	172458-74260	BOLT				4					
13	3	172173-74280	SPRING				1					
14	3	172A46-74320	SECTION, BUCKET				1					
14A	4	172A46-74310	SPOOL ASSY, BUCKET				1					
16	3	172458-74460	PLUG				1					
17	3	172458-74630	STAY, VALVE				1					
18	3	172A47-74950	O-RING				1					
19	3	172A47-74970	STAY, VALVE				1					
20	3	24311-000060	O-RING, 1AP6.0				2					
21	3	24315-000110	O-RING, 1BP11.0				1					
22	2	172458-74710	VALVE, RELIEF				2					
23	2	172A47-75610	VALVE ASSY				1					
24	3	172499-70180	VALVE ASSY, REVERSE				1					
25	3	172A47-74270	O-RING				1					
26	3	172173-74280	SPRING				1					
27	3	172183-74350	PLUG				1					
28	3	172A47-74460	PLUG				1					
29	3	172A47-74560	BUSH PF1/2X1/4				1					
30	3	172A47-74570	PISTON B				1					
31	3	172A47-74580	PISTON A1				1					
33	3	172A47-74920	HOLDER, BALL				1					
34	3	172A47-74930	BODY, DISCHARGE				1					
35	3	172A47-74970	STAY, VALVE				1					
36	3	172A47-75620	STAY, VALVE				1					
37	3	172A47-75680	O-RING				1					
38	3	172A47-75690	BALL, STEEL				1					
39	3	22312-050100	PIN, PARALLEL M5X10				2					
40	3	24311-000060	O-RING, 1AP6.0				2					
41	3	24315-000080	O-RING, 1BP8.0				1					
42	3	24315-000100	O-RING, 1BP10.0				1					
43	3	24315-000110	O-RING, 1BP11.0				2					
44	3	24315-000140	O-RING, 1BP14.0				1					
45	3	24315-000180	O-RING, 1BP18.0				1					
46	3	26450-050302	BOLT, M5X 30				2					
47	3	26450-060652	BOLT, M6X 65				2					
48	2	172456-74440	VALVE, RELIEF				1					
49	2	172A47-75450	BOLT				4					
50	2	26716-080002	NUT, M8				4					

Fig.73. CONTROL VALVE(SG:1/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



CONTROL VALVE ASSY  
 Fig. 73 Ref. No. 1  
 INC. Fig. 73 Ref. No. 2~50.  
 Fig. 74~79.

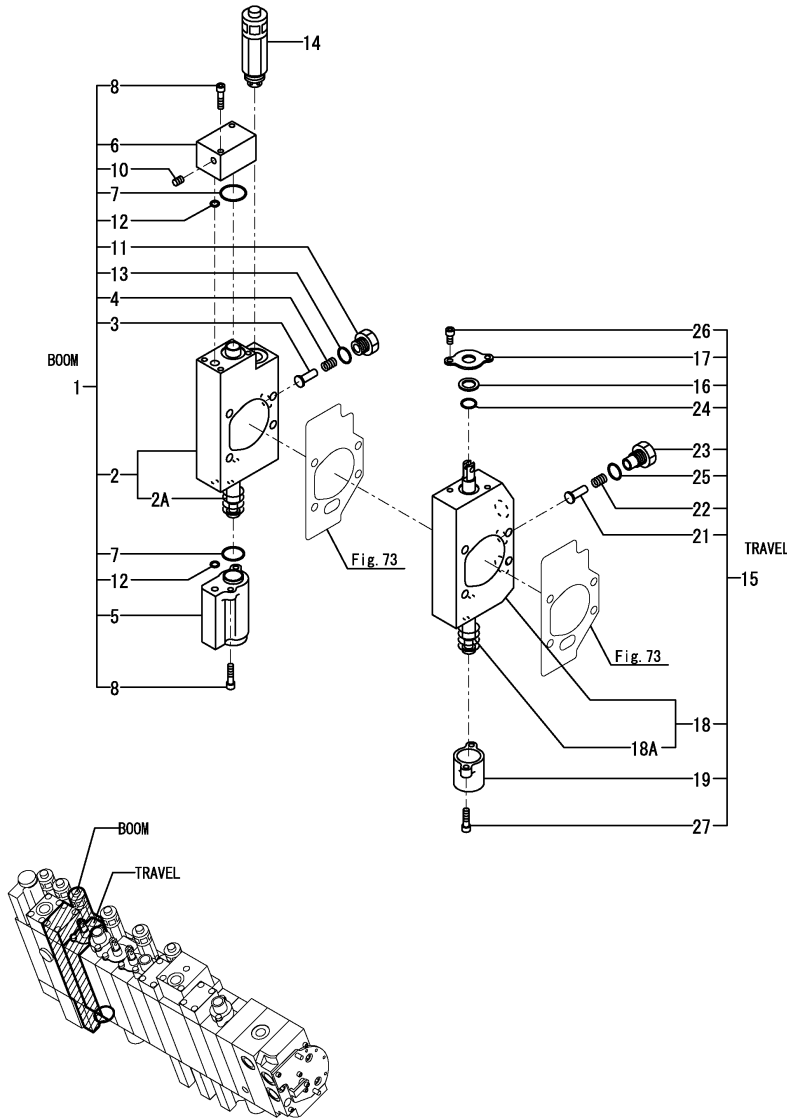
No.	Lev.	Parts No.	Description	Qty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
51	1	26013-100162	BOLT, M10X 16				3					



Fig.74. CONTROL VALVE(SG:2/7)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A44-74121	SECTION, BOOM				1				
2	3	172A44-74280	SECTION, BOOM				1				
2A	4	172A44-74131	SPOOL ASSY, BOOM				1				
3	3	172458-74150	VALVE, REVERSE				1				
4	3	172458-74160	SPRING, VALVE				1				
5	3	172A47-74220	COVER, PILOT				1				
6	3	172A47-74230	COVER, PILOT				1				
7	3	172458-74230	O-RING				2				
8	3	172458-74260	BOLT				4				
10	3	172458-74460	PLUG				1				
11	3	172458-74630	STAY, VALVE				1				
12	3	24311-000060	O-RING, 1AP6.0				2				
13	3	24315-000110	O-RING, 1BP11.0				1				
13-1	3	41851-000110	O-RING				1				N
				(D=M53092)							
14	2	172447-74221	VALVE ASSY, RELIEF				1				
15	2	172A44-74140	SECTION, TRAVEL				1				
15-1	2	172A44-74141	SECTION, TRAVEL				1				N
				(D=M53318)							
16	3	172458-74130	WIPER, DUST				1				
17	3	172458-74140	RETAINER, SEAL				1				
18	3	172A44-74270	SECTION ASSY, TRAVEL				1				
18A	4	172A44-74150	SPOOL ASSY, TRAVEL				1				
19	3	172458-74170	CAP, SPRING				1				
19-1	3	172A78-74170	CAP, SPRING				1				N
				(D=M53318)							
21	3	172458-74290	VALVE, REVERSE				1				
22	3	172458-74360	SPRING, VALVE				1				
23	3	172458-74640	STAY, VALVE				1				
24	3	24311-000120	O-RING, 1AP12.0				1				
25	3	24315-000110	O-RING, 1BP11.0				1				
25-1	3	41851-000110	O-RING				1				N
				(D=M53092)							
26	3	26450-050102	BOLT, M5X 10				2				
27	3	26450-050182	BOLT, M5X 18				2				

Remarks

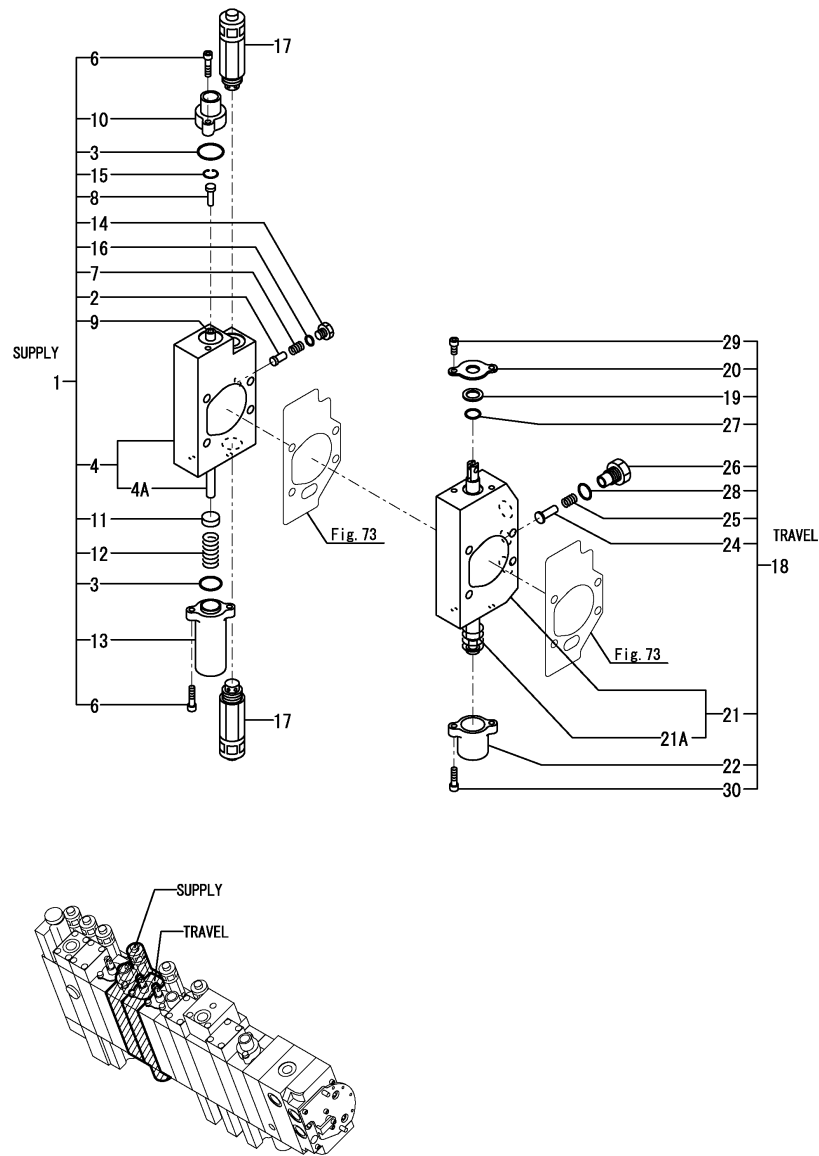
\* Control valve assy is shown in Fig.73.

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

Fig.75. CONTROL VALVE(SG:3/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A46-74410	VALVE				1				
2	3	172499-70180	VALVE ASSY, REVERSE				1				
3	3	172458-74230	O-RING				2				
4	3	172A46-74260	INLET SECTION SUB				1				
4A	4	172A46-74250	SPOOL ASSY, INLET				1				
6	3	172458-74260	BOLT				4				
7	3	172173-74280	SPRING				1				
8	3	172A47-74360	FILTER				1				
9	3	172A47-74370	PISTON				1				
10	3	172A47-74380	COVER, PILOT				1				
11	3	172458-74530	SEAT, SPRING				1				
12	3	172458-74540	SPRING, RETURN				1				
13	3	172458-74550	COVER, PILOT				1				
14	3	172458-74670	PLUG				1				
15	3	172A47-74980	CIRCLIP				1				
16	3	24315-000080	O-RING, 1BP8.0				1				
17	2	172458-74680	VALVE, RELIEF				2				
17-1	2	172A85-74680	RELIEF 210/30				2				N
			(D=M53318)								
18	2	172A44-74160	SECTION, TRAVEL				1				
18-1	2	172A44-74161	SECTION, TRAVEL				1				N
			(D=M53318)								
19	3	172458-74130	WIPER, DUST				1				
20	3	172458-74140	RETAINER, SEAL				1				
21	3	172A44-74260	SECTION ASSY, TRAVEL				1				
21A	4	172A44-74150	SPOOL ASSY, TRAVEL				1				
22	3	172458-74170	CAP, SPRING				1				
22-1	3	172A78-74170	CAP, SPRING				1				N
			(D=M53318)								
24	3	172458-74290	VALVE, REVERSE				1				
25	3	172458-74360	SPRING, VALVE				1				
26	3	172458-74640	STAY, VALVE				1				
27	3	24311-000120	O-RING, 1AP12.0				1				
28	3	24315-000110	O-RING, 1BP11.0				1				
28-1	3	41851-000110	O-RING				1				N
			(D=M53092)								
29	3	26450-050102	BOLT, M5X 10				2				
30	3	26450-050182	BOLT, M5X 18				2				

Remarks

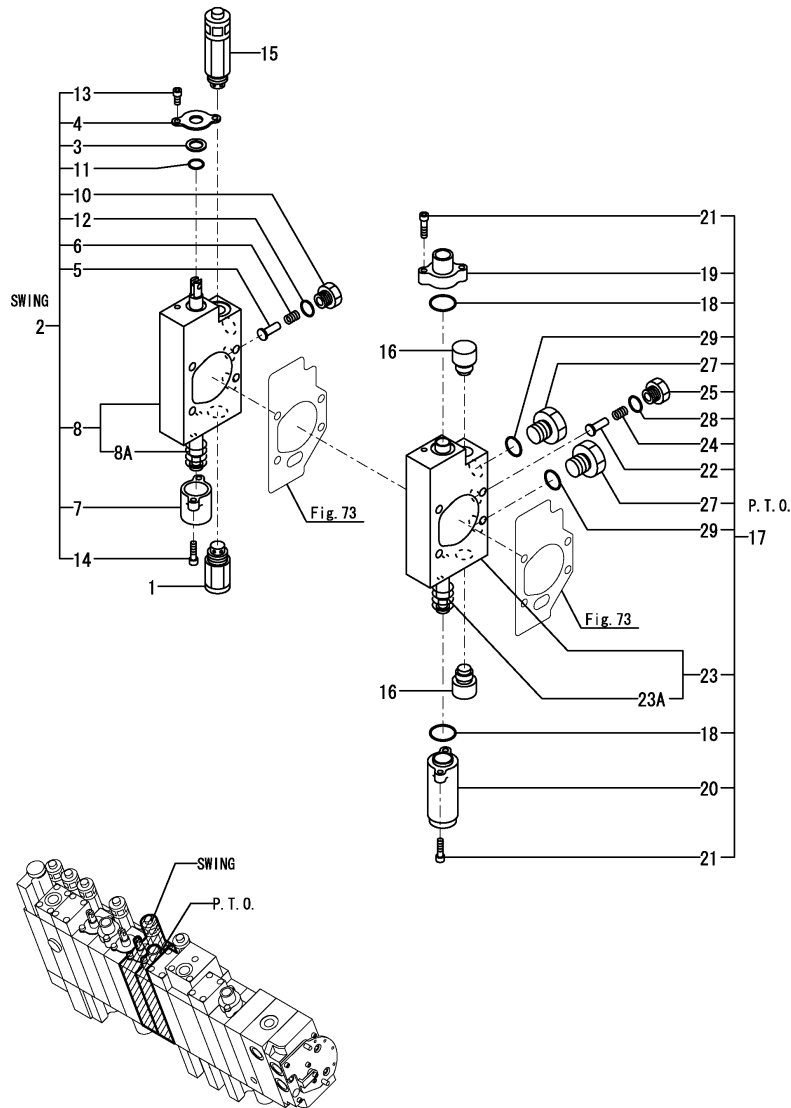
\* Control valve assy is shown in Fig.73.

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

Fig.76. CONTROL VALVE(SG:4/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172447-74230	ANTI-CAVITATION				1				
2	2	172A46-74430	SECTION, SWING				1				
2-1	2	172A46-74431	SECTION, SWING				1				N
				(D=M53318)							
3	3	172458-74130	WIPER, DUST				1				
4	3	172458-74140	RETAINER, SEAL				1				
5	3	172458-74150	VALVE, REVERSE				1				
6	3	172458-74160	SPRING, VALVE				1				
7	3	172458-74170	CAP, SPRING				1				
7-1	3	172A78-74170	CAP, SPRING				1				N
				(D=M53318)							
8	3	172A46-74220	SWING SECTION SUB				1				
8A	4	172A46-74210	SPOOL ASSY, SWING				1				
10	3	172458-74630	STAY, VALVE				1				
11	3	24311-000120	O-RING, 1AP12.0				1				
12	3	24315-000110	O-RING, 1BP11.0				1				
13	3	26450-050102	BOLT, M5X 10				2				
14	3	26450-050182	BOLT, M5X 18				2				
15	2	172458-74710	VALVE, RELIEF				1				
16	2	172A47-75460	PLUG ASSY, VALVE				2				
17	2	172A47-75550	SECTION, PTO				1				
18	3	172458-74230	O-RING				2				
19	3	172458-74240	COVER, PILOT				1				
20	3	172458-74250	COVER, PILOT				1				
21	3	172458-74260	BOLT				4				
22	3	172490-74310	VALVE, REVERSE				1				
23	3	172A47-74470	PTO SECTION ASSY				1				
23A	4	172A47-74320	SPOOL ASSY, PTO				1				
24	3	172490-74320	SPRING, VALVE				1				
25	3	172490-74330	STAY, VALVE				1				
27	3	172458-74650	STAY, VALVE				2				
28	3	24315-000110	O-RING, 1BP11.0				1				
29	3	24315-000140	O-RING, 1BP14.0				2				

Remarks

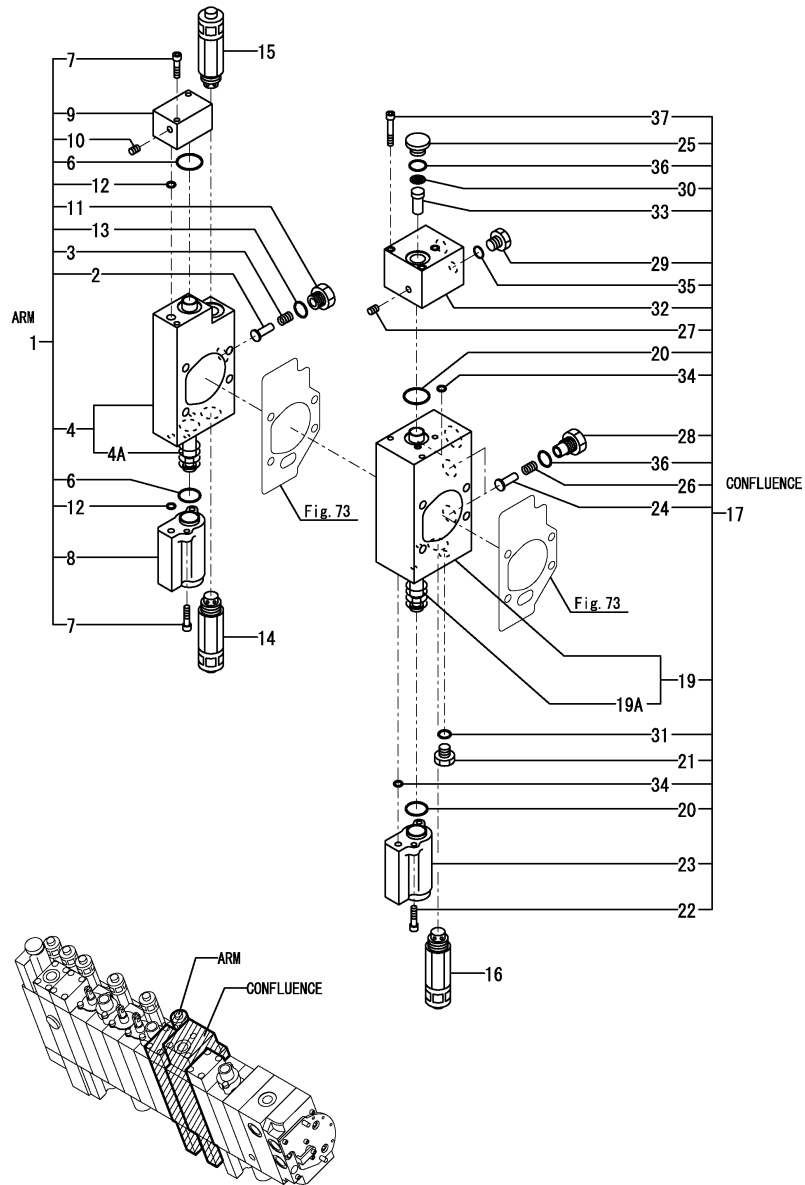
\* Control valve assy is shown in Fig.73.

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

Fig.77. CONTROL VALVE(SG:5/7)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	2	172A44-74171	SECTION, ARM				1					
2	3	172458-74150	VALVE, REVERSE				1					
3	3	172458-74160	SPRING, VALVE				1					
4	3	172A44-74250	SECTION, ARM				1					
4A	4	172A44-74181	SPOOL ASSY, ARM				1					
6	3	172458-74230	O-RING				2					
7	3	172458-74260	BOLT				4					
8	3	172A47-74280	COVER, PILOT				1					
9	3	172A47-74300	COVER, PILOT				1					
10	3	172458-74460	PLUG				1					
11	3	172458-74630	STAY, VALVE				1					
12	3	24311-000060	O-RING, 1AP6.0				2					
13	3	24315-000110	O-RING, 1BP11.0				1					
13-1	3	41851-000110	O-RING				1					N
(D=M53092)												
14	2	172447-74221	VALVE ASSY, RELIEF				1					
15	2	172458-74710	VALVE, RELIEF				1					
16	2	172A45-74130	VALVE ASSY, RELIEF				1					
17	2	172A44-74190	SECTION				1					
19	3	172A44-74240	SECTION ASSY				1					
19A	4	172A44-74200	SPOOL ASSY				1					
20	3	172458-74230	O-RING				2					
21	3	172A47-74260	PLUG				1					
22	3	172458-74260	BOLT				2					
23	3	172A47-74280	COVER, PILOT				1					
24	3	172458-74290	VALVE, REVERSE				2					
25	3	172183-74350	PLUG				1					
26	3	172458-74360	SPRING, VALVE				2					
27	3	172458-74460	PLUG				2					
28	3	172458-74640	STAY, VALVE				2					
29	3	172458-74670	PLUG				1					
30	3	172499-74860	FILTER				1					
31	3	172A47-74950	O-RING				1					
32	3	172A47-74960	BODY, PILOT				1					
33	3	172499-74960	PLUG				1					
34	3	24311-000060	O-RING, 1AP6.0				2					
35	3	24315-000080	O-RING, 1BP8.0				1					
36	3	24315-000110	O-RING, 1BP11.0				3					
36-1	3	41851-000110	O-RING				3					N
(D=M53092)												
37	3	26450-050452	BOLT, M5X 45				3					

Remarks

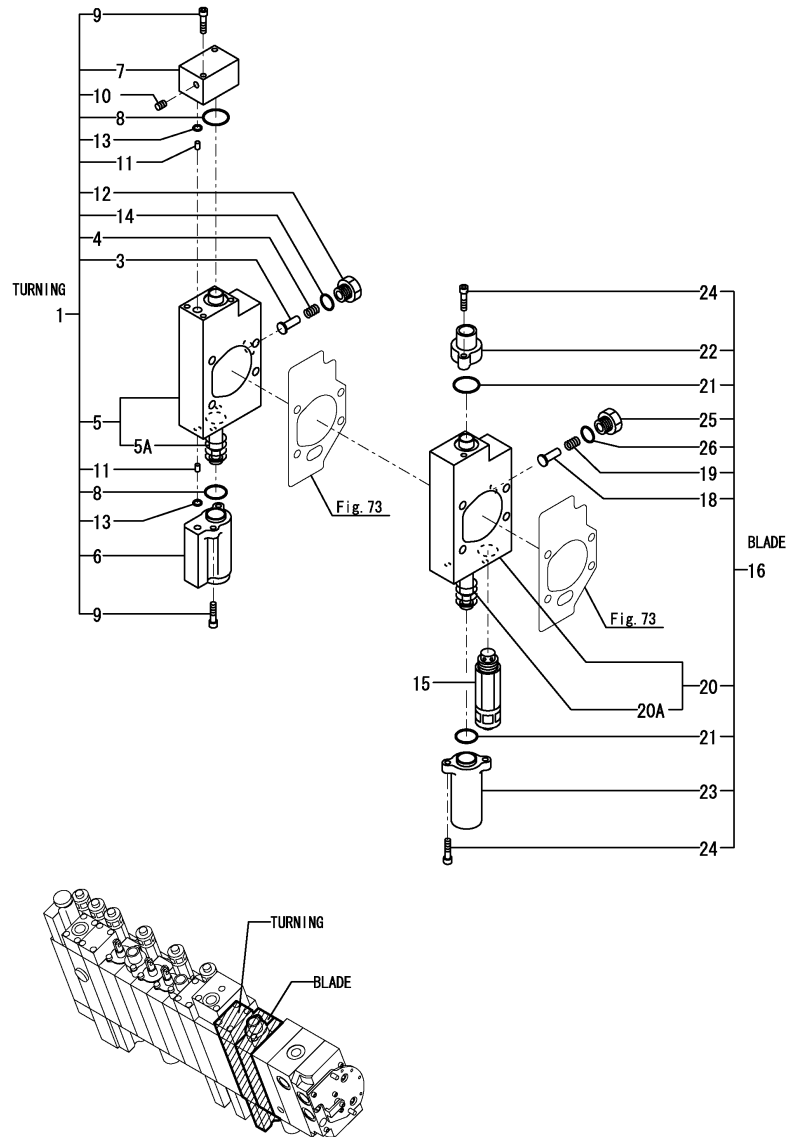
\* Control valve assy is shown in Fig.73.

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

Fig.78. CONTROL VALVE(SG:6/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A44-74211	SECTION, SWING				1				
3	3	172458-74150	VALVE, REVERSE				1				
4	3	172458-74160	SPRING, VALVE				1				
5	3	172A44-74230	SECTION ASSY				1				
5A	4	172A44-74221	SPOOL ASSY, SWING				1				
6	3	172A47-74220	COVER, PILOT				1				
7	3	172A47-74230	COVER, PILOT				1				
8	3	172458-74230	O-RING				2				
9	3	172458-74260	BOLT				4				
10	3	172458-74460	PLUG				1				
11	3	172A46-74480	THROTTLE				2				
12	3	172458-74630	STAY, VALVE				1				
13	3	24311-000060	O-RING, 1AP6.0				2				
14	3	24315-000110	O-RING, 1BP11.0				1				
14-1	3	41851-000110	O-RING				1				N
				(D=M53092)							
15	2	172458-74700	VALVE, RELIEF				1				
16	2	172A47-75591	SECTION, BLADE				1				
18	3	172458-74150	VALVE, REVERSE				1				
19	3	172458-74160	SPRING, VALVE				1				
20	3	172A47-74421	SECTION ASSY, BLADE				1				
20A	4	172A47-75671	SPOOL ASSY, BLADE				1				
21	3	172458-74230	O-RING				2				
22	3	172458-74240	COVER, PILOT				1				
23	3	172458-74250	COVER, PILOT				1				
24	3	172458-74260	BOLT				4				
25	3	172458-74630	STAY, VALVE				1				
26	3	24315-000110	O-RING, 1BP11.0				1				

Remarks

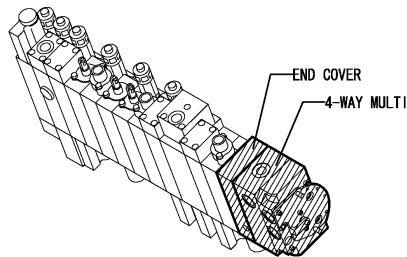
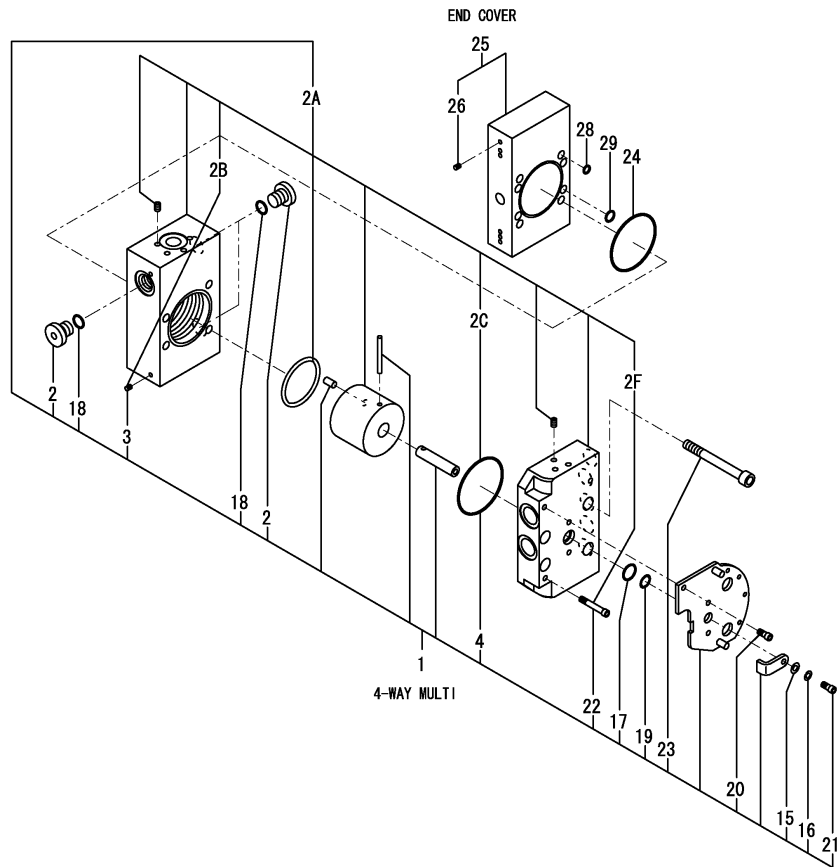
\* Control valve assy is shown in Fig.73.

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

Fig.79. CONTROL VALVE(SG:7/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	2	172A47-74200	VALVE				1					
2	3	172183-74350	PLUG				3					
2A	3	172A47-75900	BODY 4WAY KIT				1				W	
			(D=M53318)									
2B	4	172458-74460	PLUG				2					
2C	4	172A47-75420	O-RING				1					
2F	4	26450-050302	BOLT, M5X 30				2					
3	3	172458-74460	PLUG				2				Z	
			(D=M53318)									
4	3	172A47-75420	O-RING				1				Z	
			(D=M53318)									
15	3	22137-050000	WASHER, 5				1					
16	3	22217-050000	WASHER, SPRING 5				1					
17	3	24311-240100	O-RING, 1AP10A				1					
18	3	24315-000110	O-RING, 1BP11.0				3					
18-1	3	41851-000110	O-RING				3				N	
			(D=M53092)									
19	3	24373-240100	RING, BACK UP T3P10A				1					
20	3	26450-050102	BOLT, M5X 10				3					
21	3	26450-050102	BOLT, M5X 10				1					
22	3	26450-050302	BOLT, M5X 30				2				Z	
			(D=M53318)									
23	3	26450-080752	BOLT, M8X 75				4					
24	2	172A47-75420	O-RING				1					
25	2	172A47-75600	COVER ASSY, END				1					
26	3	172458-74460	PLUG				8					
28	2	24311-000060	O-RING, 1AP6.0				7					
29	2	24311-000090	O-RING, 1AP9.0				2					

Remarks

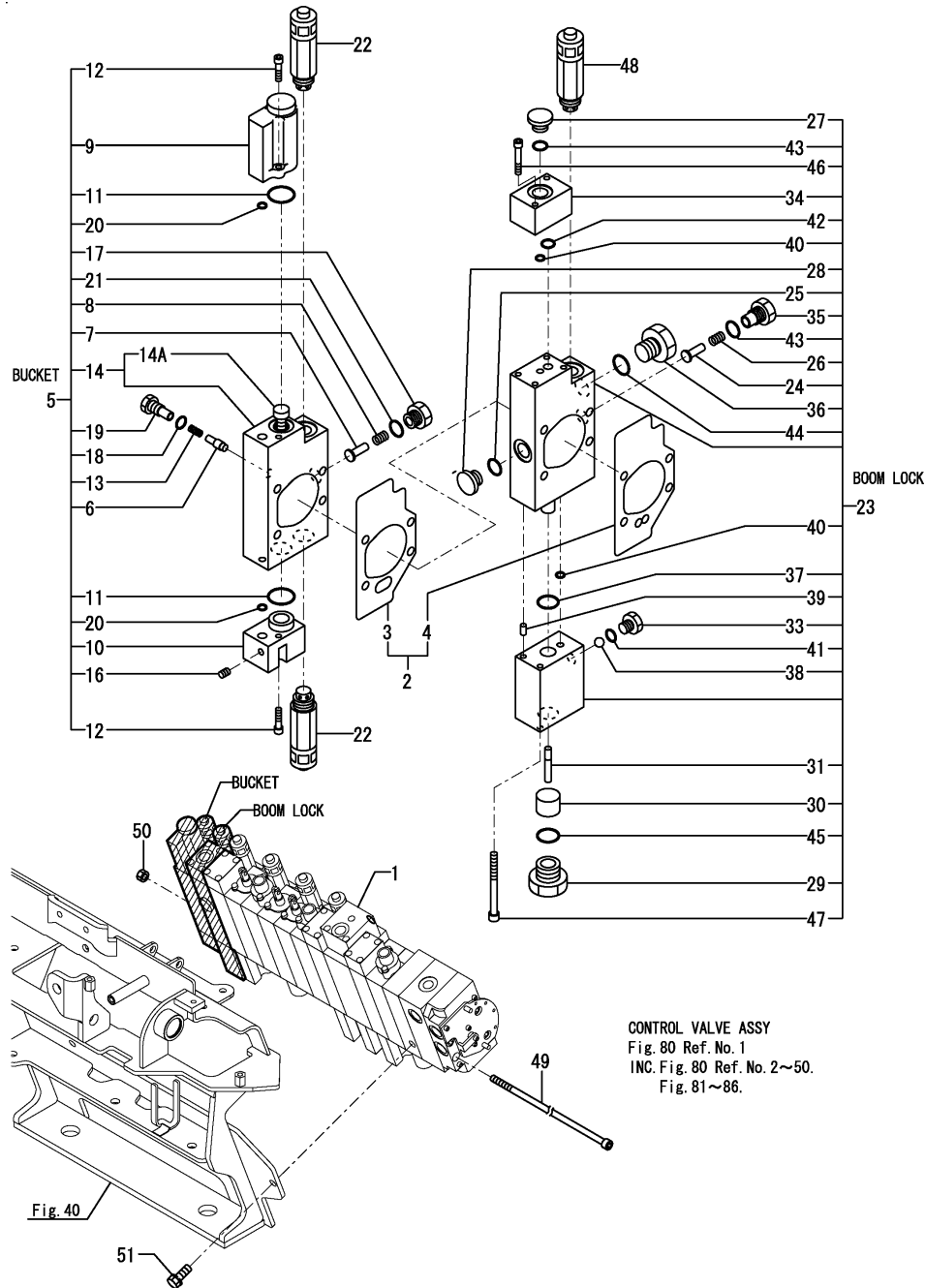
\* Control valve assy is shown in Fig.73.

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

Fig.80. CONTROL VALVE(US,AS,NZ:1/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

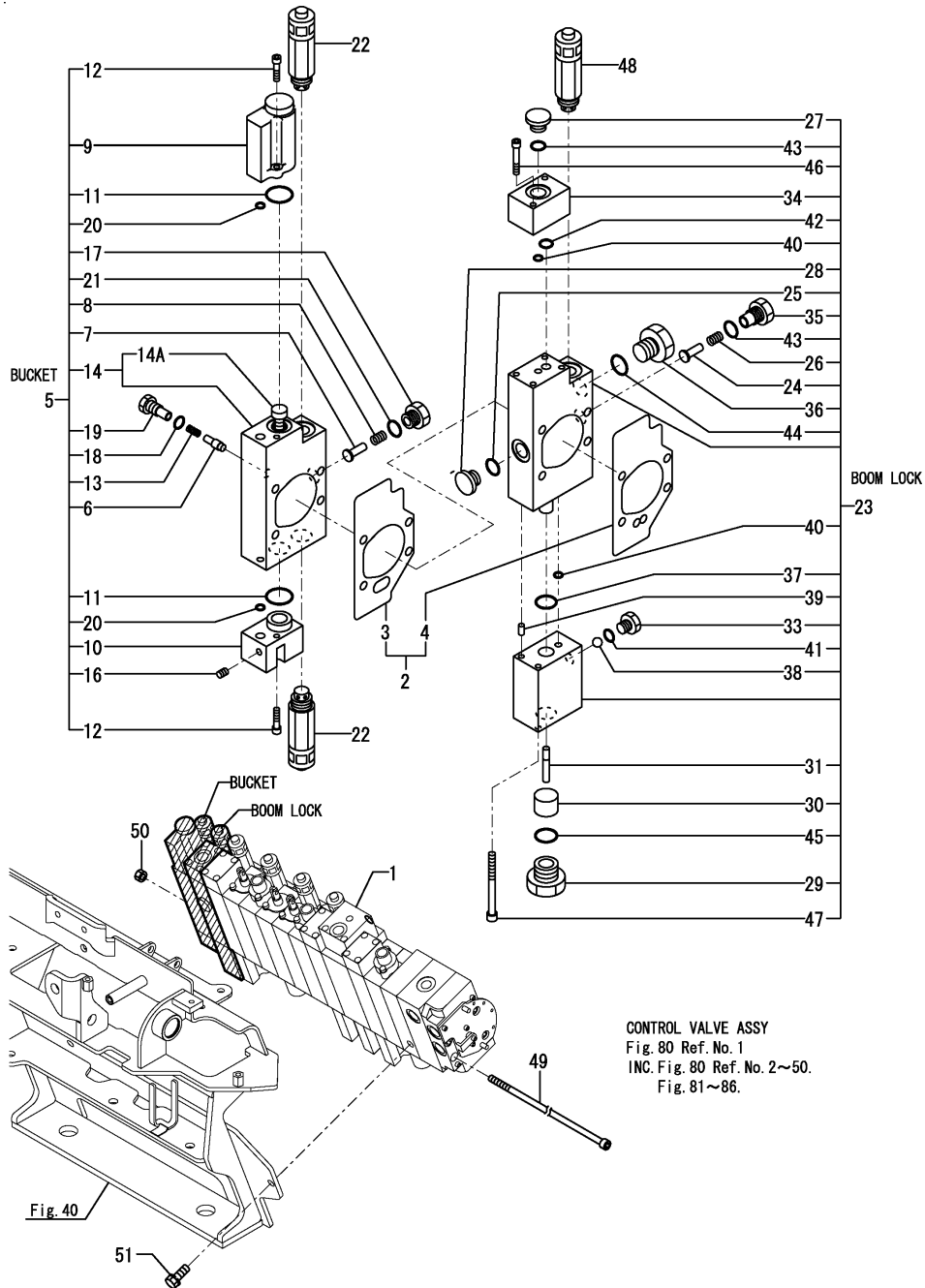


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-74111	VALVE ASSY, CONTROL	1	1	1					
1-1	1	172A44-74112	VALVE ASSY, CONTROL	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
2	2	172A46-74330	GASKET SET	1	1	1					
3	3	172A47-75430	GASKET	11	11	11					
4	3	172A47-75440	GASKET	1	1	1					
5	2	172A46-74370	SECTION, BUCKET	1	1	1					
6	3	172499-70180	VALVE ASSY, REVERSE	1	1	1					
7	3	172458-74150	VALVE, REVERSE	1	1	1					
8	3	172458-74160	SPRING, VALVE	1	1	1					
9	3	172A47-74220	COVER, PILOT	1	1	1					
10	3	172A47-74230	COVER, PILOT	1	1	1					
11	3	172458-74230	O-RING	2	2	2					
12	3	172458-74260	BOLT	4	4	4					
13	3	172173-74280	SPRING	1	1	1					
14	3	172A46-74320	SECTION, BUCKET	1	1	1					
14A	4	172A46-74310	SPOOL ASSY, BUCKET	1	1	1					
16	3	172458-74460	PLUG	1	1	1					
17	3	172458-74630	STAY, VALVE	1	1	1					
18	3	172A47-74950	O-RING	1	1	1					
19	3	172A47-74970	STAY, VALVE	1	1	1					
20	3	24311-000060	O-RING, 1AP6.0	2	2	2					
21	3	24315-000110	O-RING, 1BP11.0	1	1	1					
22	2	172458-74710	VALVE, RELIEF	2	2	2					
23	2	172A47-75610	VALVE ASSY	1	1	1					
24	3	172499-70180	VALVE ASSY, REVERSE	1	1	1					
25	3	172A47-74270	O-RING	1	1	1					
26	3	172173-74280	SPRING	1	1	1					
27	3	172183-74350	PLUG	1	1	1					
28	3	172A47-74460	PLUG	1	1	1					
29	3	172A47-74560	BUSH PF1/2X1/4	1	1	1					
30	3	172A47-74570	PISTON B	1	1	1					
31	3	172A47-74580	PISTON A1	1	1	1					
33	3	172A47-74920	HOLDER, BALL	1	1	1					
34	3	172A47-74930	BODY, DISCHARGE	1	1	1					
35	3	172A47-74970	STAY, VALVE	1	1	1					
36	3	172A47-75620	STAY, VALVE	1	1	1					
37	3	172A47-75680	O-RING	1	1	1					
38	3	172A47-75690	BALL, STEEL	1	1	1					
39	3	22312-050100	PIN, PARALLEL M5X10	2	2	2					
40	3	24311-000060	O-RING, 1AP6.0	2	2	2					
41	3	24315-000080	O-RING, 1BP8.0	1	1	1					
42	3	24315-000100	O-RING, 1BP10.0	1	1	1					
43	3	24315-000110	O-RING, 1BP11.0	2	2	2					
44	3	24315-000140	O-RING, 1BP14.0	1	1	1					
45	3	24315-000180	O-RING, 1BP18.0	1	1	1					
46	3	26450-050302	BOLT, M5X 30	2	2	2					
47	3	26450-060652	BOLT, M6X 65	2	2	2					
48	2	172456-74440	VALVE, RELIEF	1	1	1					
49	2	172A47-75450	BOLT	4	4	4					
50	2	26716-080002	NUT, M8	4	4	4					

Fig.80. CONTROL VALVE(US,AS,NZ:1/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



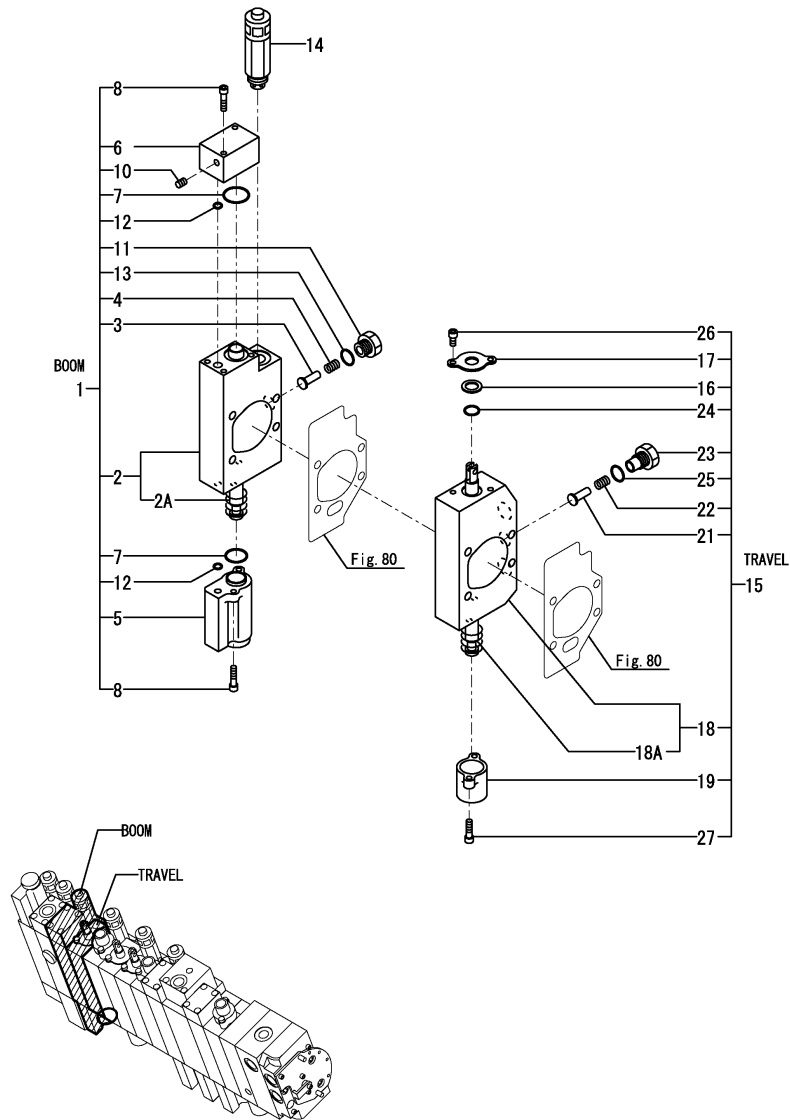
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
51	1	26013-100162	BOLT, M10X 16	3	3	3					



Fig.81. CONTROL VALVE(US,AS,NZ:2/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



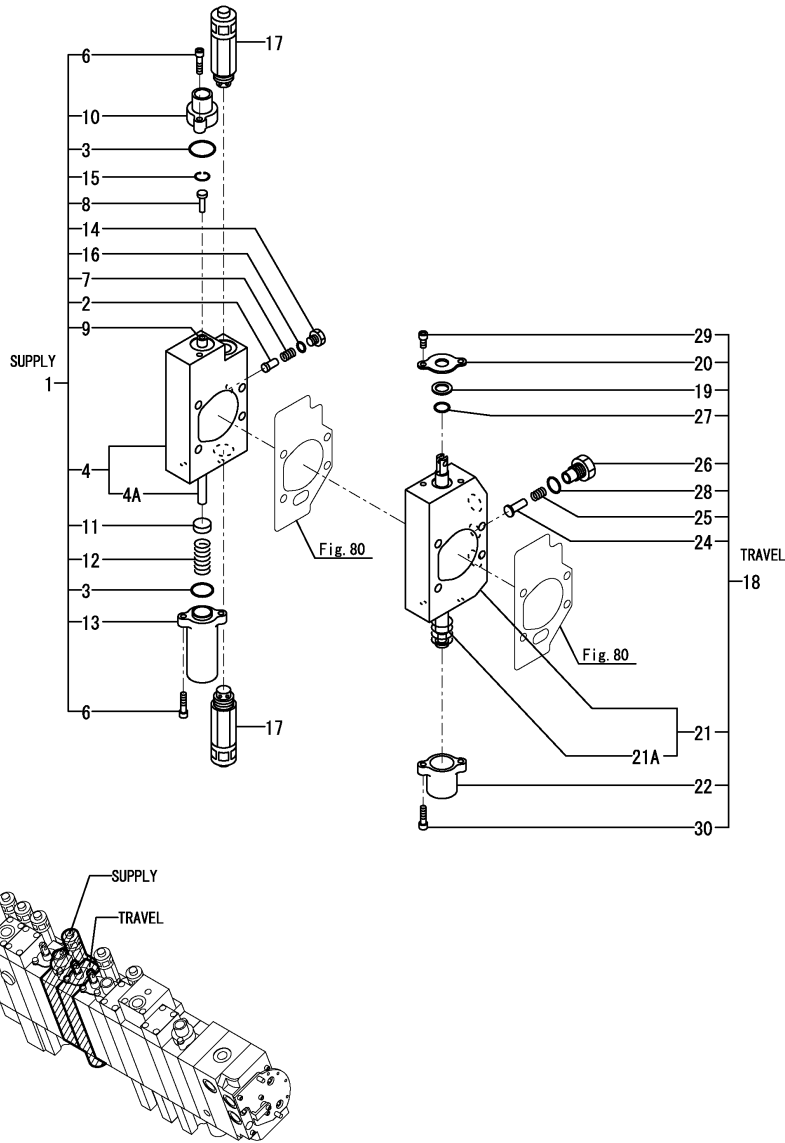
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A44-74121	SECTION, BOOM	1	1	1					
2	3	172A44-74280	SECTION, BOOM	1	1	1					
2A	4	172A44-74131	SPOOL ASSY, BOOM	1	1	1					
3	3	172458-74150	VALVE, REVERSE	1	1	1					
4	3	172458-74160	SPRING, VALVE	1	1	1					
5	3	172A47-74220	COVER, PILOT	1	1	1					
6	3	172A47-74230	COVER, PILOT	1	1	1					
7	3	172458-74230	O-RING	2	2	2					
8	3	172458-74260	BOLT	4	4	4					
10	3	172458-74460	PLUG	1	1	1					
11	3	172458-74630	STAY, VALVE	1	1	1					
12	3	24311-000060	O-RING, 1AP6.0	2	2	2					
13	3	24315-000110	O-RING, 1BP11.0	1	1	1					
13-1	3	41851-000110	O-RING	1	1	1					N
		(A=M53092) (B=M53092) (C=M53092)									
14	2	172447-74221	VALVE ASSY, RELIEF	1	1	1					
15	2	172A44-74140	SECTION, TRAVEL	1	1	1					
15-1	2	172A44-74141	SECTION, TRAVEL	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
16	3	172458-74130	WIPER, DUST	1	1	1					
17	3	172458-74140	RETAINER, SEAL	1	1	1					
18	3	172A44-74270	SECTION ASSY, TRAVEL	1	1	1					
18A	4	172A44-74150	SPOOL ASSY, TRAVEL	1	1	1					
19	3	172458-74170	CAP, SPRING	1	1	1					
19-1	3	172A78-74170	CAP, SPRING	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
21	3	172458-74290	VALVE, REVERSE	1	1	1					
22	3	172458-74360	SPRING, VALVE	1	1	1					
23	3	172458-74640	STAY, VALVE	1	1	1					
24	3	24311-000120	O-RING, 1AP12.0	1	1	1					
25	3	24315-000110	O-RING, 1BP11.0	1	1	1					
25-1	3	41851-000110	O-RING	1	1	1					N
		(A=M53092) (B=M53092) (C=M53092)									
26	3	26450-050102	BOLT, M5X 10	2	2	2					
27	3	26450-050182	BOLT, M5X 18	2	2	2					

Remarks  
 \* Control valve assy is shown in Fig.80.

Fig.82. CONTROL VALVE(US,AS,NZ:3/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A46-74410	VALVE	1	1	1					
2	3	172499-70180	VALVE ASSY, REVERSE	1	1	1					
3	3	172458-74230	O-RING	2	2	2					
4	3	172A46-74260	INLET SECTION SUB	1	1	1					
4A	4	172A46-74250	SPOOL ASSY, INLET	1	1	1					
6	3	172458-74260	BOLT	4	4	4					
7	3	172173-74280	SPRING	1	1	1					
8	3	172A47-74360	FILTER	1	1	1					
9	3	172A47-74370	PISTON	1	1	1					
10	3	172A47-74380	COVER, PILOT	1	1	1					
11	3	172458-74530	SEAT, SPRING	1	1	1					
12	3	172458-74540	SPRING, RETURN	1	1	1					
13	3	172458-74550	COVER, PILOT	1	1	1					
14	3	172458-74670	PLUG	1	1	1					
15	3	172A47-74980	CIRCLIP	1	1	1					
16	3	24315-00080	O-RING, 1BP8.0	1	1	1					
17	2	172458-74680	VALVE, RELIEF	2	2	2					
17-1	2	172A85-74680	RELIEF 210/30	2	2	2					N
		(A=M53516) (B=M53516) (C=M53516)									
18	2	172A44-74160	SECTION, TRAVEL	1	1	1					
18-1	2	172A44-74161	SECTION, TRAVEL	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
19	3	172458-74130	WIPER, DUST	1	1	1					
20	3	172458-74140	RETAINER, SEAL	1	1	1					
21	3	172A44-74260	SECTION ASSY, TRAVEL	1	1	1					
21A	4	172A44-74150	SPOOL ASSY, TRAVEL	1	1	1					
22	3	172458-74170	CAP, SPRING	1	1	1					
22-1	3	172A78-74170	CAP, SPRING	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
24	3	172458-74290	VALVE, REVERSE	1	1	1					
25	3	172458-74360	SPRING, VALVE	1	1	1					
26	3	172458-74640	STAY, VALVE	1	1	1					
27	3	24311-000120	O-RING, 1AP12.0	1	1	1					
28	3	24315-000110	O-RING, 1BP11.0	1	1	1					
28-1	3	41851-000110	O-RING	1	1	1					N
		(A=M53092) (B=M53092) (C=M53092)									
29	3	26450-050102	BOLT, M5X 10	2	2	2					
30	3	26450-050182	BOLT, M5X 18	2	2	2					

Remarks

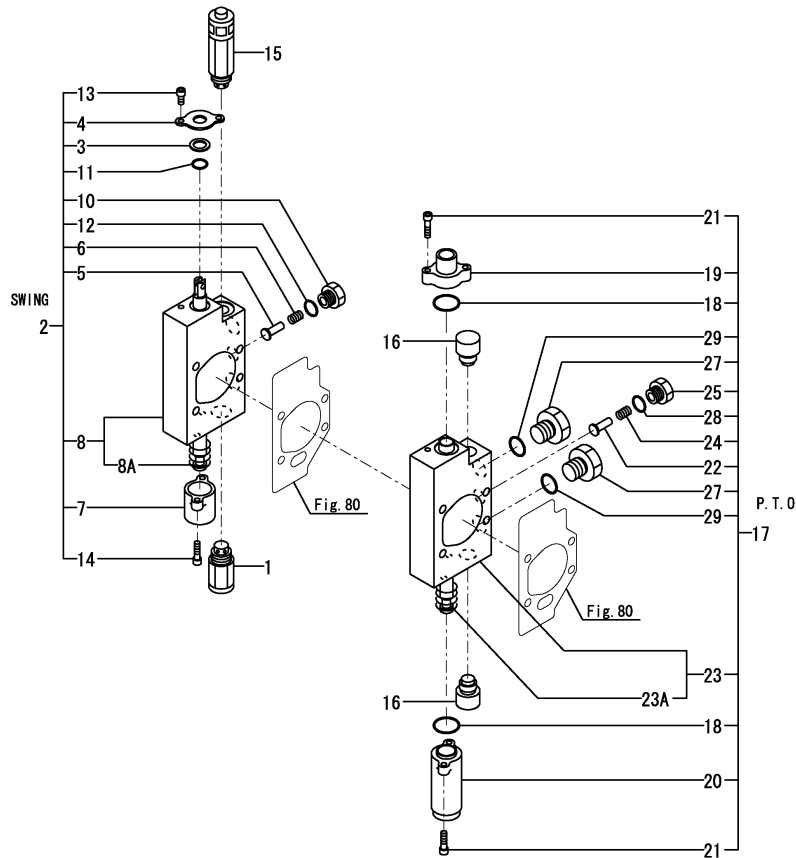
\* Control valve assy is shown in Fig.80.

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

Fig.83. CONTROL VALVE(US,AS,NZ:4/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



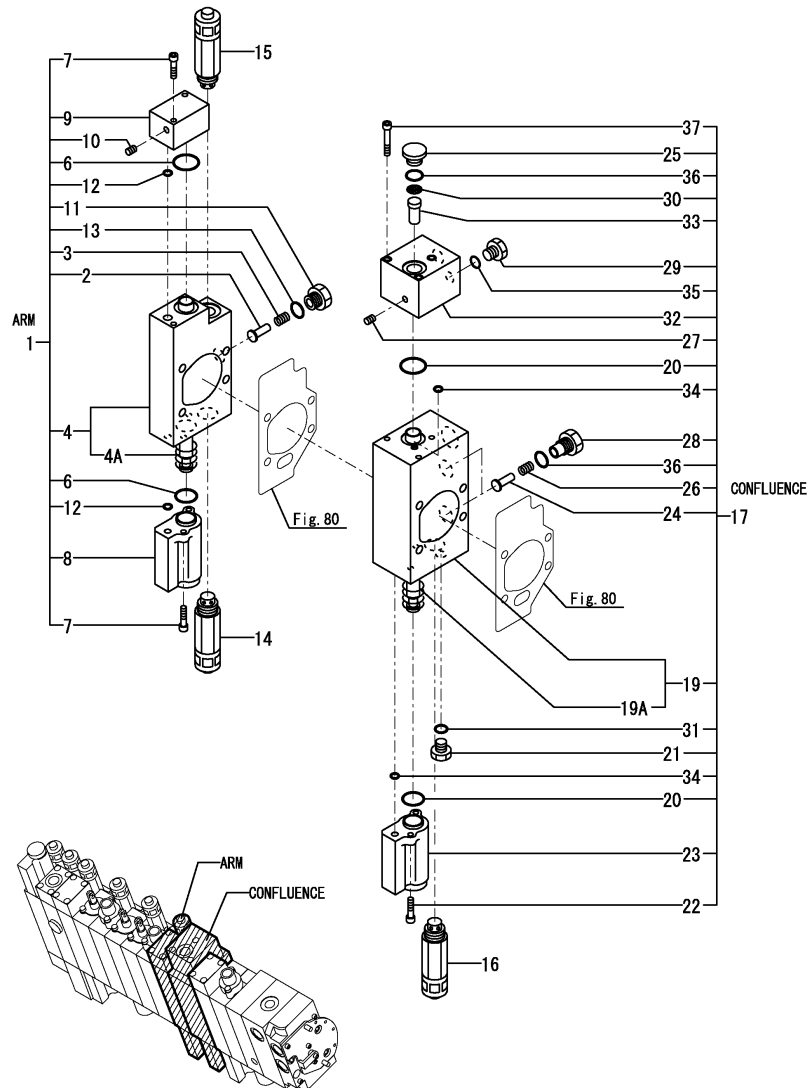
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172447-74230	ANTI-CAVITATION	1	1	1					
2	2	172A46-74430	SECTION, SWING	1	1	1					
2-1	2	172A46-74431	SECTION, SWING	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
3	3	172458-74130	WIPER, DUST	1	1	1					
4	3	172458-74140	RETAINER, SEAL	1	1	1					
5	3	172458-74150	VALVE, REVERSE	1	1	1					
6	3	172458-74160	SPRING, VALVE	1	1	1					
7	3	172458-74170	CAP, SPRING	1	1	1					
7-1	3	172A78-74170	CAP, SPRING	1	1	1					N
		(A=M53516) (B=M53516) (C=M53516)									
8	3	172A46-74220	SWING SECTION SUB	1	1	1					
8A	4	172A46-74210	SPOOL ASSY, SWING	1	1	1					
10	3	172458-74630	STAY, VALVE	1	1	1					
11	3	24311-000120	O-RING, 1AP12.0	1	1	1					
12	3	24315-000110	O-RING, 1BP11.0	1	1	1					
13	3	26450-050102	BOLT, M5X 10	2	2	2					
14	3	26450-050182	BOLT, M5X 18	2	2	2					
15	2	172458-74710	VALVE, RELIEF	1	1	1					
16	2	172A47-75460	PLUG ASSY, VALVE	2	2	2					
17	2	172A47-75550	SECTION, PTO	1	1	1					
18	3	172458-74230	O-RING	2	2	2					
19	3	172458-74240	COVER, PILOT	1	1	1					
20	3	172458-74250	COVER, PILOT	1	1	1					
21	3	172458-74260	BOLT	4	4	4					
22	3	172490-74310	VALVE, REVERSE	1	1	1					
23	3	172A47-74470	PTO SECTION ASSY	1	1	1					
23A	4	172A47-74320	SPOOL ASSY, PTO	1	1	1					
24	3	172490-74320	SPRING, VALVE	1	1	1					
25	3	172490-74330	STAY, VALVE	1	1	1					
27	3	172458-74650	STAY, VALVE	2	2	2					
28	3	24315-000110	O-RING, 1BP11.0	1	1	1					
29	3	24315-000140	O-RING, 1BP14.0	2	2	2					

Remarks  
 \* Control valve assy is shown in Fig.80.

Fig.84. CONTROL VALVE(US,AS,NZ:5/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A44-74171	SECTION, ARM	1	1	1					
2	3	172458-74150	VALVE, REVERSE	1	1	1					
3	3	172458-74160	SPRING, VALVE	1	1	1					
4	3	172A44-74250	SECTION, ARM	1	1	1					
4A	4	172A44-74181	SPOOL ASSY, ARM	1	1	1					
6	3	172458-74230	O-RING	2	2	2					
7	3	172458-74260	BOLT	4	4	4					
8	3	172A47-74280	COVER, PILOT	1	1	1					
9	3	172A47-74300	COVER, PILOT	1	1	1					
10	3	172458-74460	PLUG	1	1	1					
11	3	172458-74630	STAY, VALVE	1	1	1					
12	3	24311-000060	O-RING, 1AP6.0	2	2	2					
13	3	24315-000110	O-RING, 1BP11.0	1	1	1					
13-1	3	41851-000110	O-RING	1	1	1					N
		(A=M53092) (B=M53092) (C=M53092)									
14	2	172447-74221	VALVE ASSY, RELIEF	1	1	1					
15	2	172458-74710	VALVE, RELIEF	1	1	1					
16	2	172A45-74130	VALVE ASSY, RELIEF	1	1	1					
17	2	172A44-74190	SECTION	1	1	1					
19	3	172A44-74240	SECTION ASSY	1	1	1					
19A	4	172A44-74200	SPOOL ASSY	1	1	1					
20	3	172458-74230	O-RING	2	2	2					
21	3	172A47-74260	PLUG	1	1	1					
22	3	172458-74260	BOLT	2	2	2					
23	3	172A47-74280	COVER, PILOT	1	1	1					
24	3	172458-74290	VALVE, REVERSE	2	2	2					
25	3	172183-74350	PLUG	1	1	1					
26	3	172458-74360	SPRING, VALVE	2	2	2					
27	3	172458-74460	PLUG	2	2	2					
28	3	172458-74640	STAY, VALVE	2	2	2					
29	3	172458-74670	PLUG	1	1	1					
30	3	172499-74860	FILTER	1	1	1					
31	3	172A47-74950	O-RING	1	1	1					
32	3	172A47-74960	BODY, PILOT	1	1	1					
33	3	172499-74960	PLUG	1	1	1					
34	3	24311-000060	O-RING, 1AP6.0	2	2	2					
35	3	24315-000080	O-RING, 1BP8.0	1	1	1					
36	3	24315-000110	O-RING, 1BP11.0	3	3	3					
36-1	3	41851-000110	O-RING	3	3	3					N
		(A=M53092) (B=M53092) (C=M53092)									
37	3	26450-050452	BOLT, M5X 45	3	3	3					

Remarks

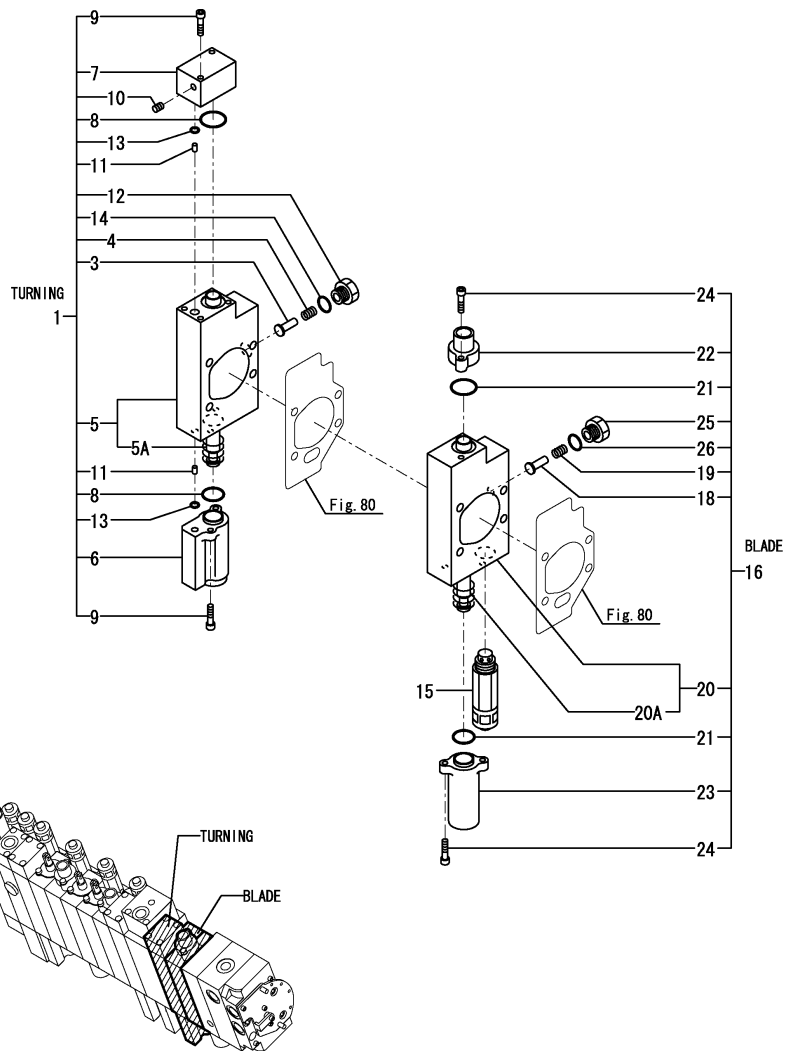
\* Control valve assy is shown in Fig.80.

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

Fig.85. CONTROL VALVE(US,AS,NZ:6/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



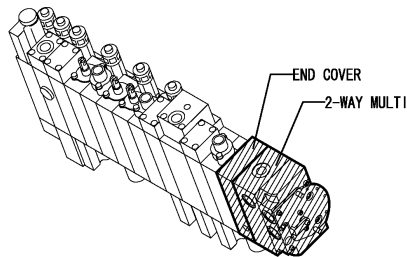
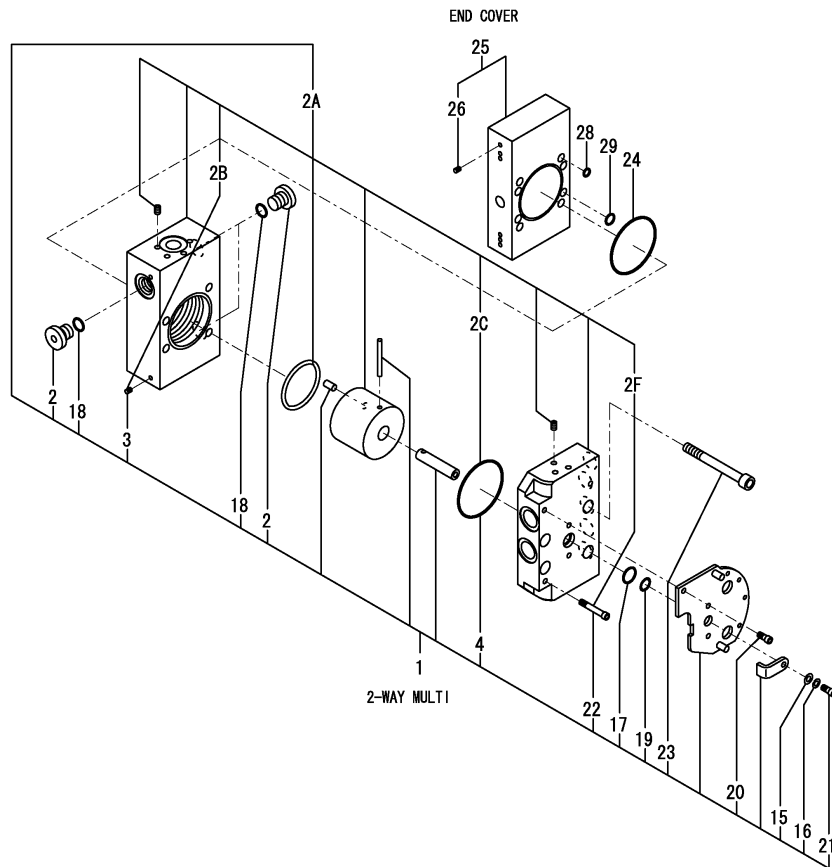
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A44-74211	SECTION, SWING	1	1	1					
3	3	172458-74150	VALVE, REVERSE	1	1	1					
4	3	172458-74160	SPRING, VALVE	1	1	1					
5	3	172A44-74230	SECTION ASSY	1	1	1					
5A	4	172A44-74221	SPOOL ASSY, SWING	1	1	1					
6	3	172A47-74220	COVER, PILOT	1	1	1					
7	3	172A47-74230	COVER, PILOT	1	1	1					
8	3	172458-74230	O-RING	2	2	2					
9	3	172458-74260	BOLT	4	4	4					
10	3	172458-74460	PLUG	1	1	1					
11	3	172A46-74480	THROTTLE	2	2	2					
12	3	172458-74630	STAY, VALVE	1	1	1					
13	3	24311-000060	O-RING, 1AP6.0	2	2	2					
14	3	24315-000110	O-RING, 1BP11.0	1	1	1					
14-1	3	41851-000110	O-RING	1	1	1					N
		(A=M53092) (B=M53092) (C=M53092)									
15	2	172458-74700	VALVE, RELIEF	1	1	1					
16	2	172A47-75591	SECTION, BLADE	1	1	1					
18	3	172458-74150	VALVE, REVERSE	1	1	1					
19	3	172458-74160	SPRING, VALVE	1	1	1					
20	3	172A47-74421	SECTION ASSY, BLADE	1	1	1					
20A	4	172A47-75671	SPOOL ASSY, BLADE	1	1	1					
21	3	172458-74230	O-RING	2	2	2					
22	3	172458-74240	COVER, PILOT	1	1	1					
23	3	172458-74250	COVER, PILOT	1	1	1					
24	3	172458-74260	BOLT	4	4	4					
25	3	172458-74630	STAY, VALVE	1	1	1					
26	3	24315-000110	O-RING, 1BP11.0	1	1	1					

Remarks  
 \* Control valve assy is shown in Fig.80.

Fig.86. CONTROL VALVE(US,AS,NZ:7/7)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A47-74210	VALVE	1	1	1					
2	3	172183-74350	PLUG	3	3	3					
2A	3	172A47-75910	BODY, 2-WAY KIT	1	1	1					W
2B	4	172458-74460	PLUG	2	2	2					
2C	4	172A47-75420	O-RING	1	1	1					
2F	4	26450-050302	BOLT, M5X 30	2	2	2					
3	3	172458-74460	PLUG	2	2	2					Z
4	3	172A47-75420	O-RING	1	1	1					Z
15	3	22137-050000	WASHER, 5	1	1	1					
16	3	22217-050000	WASHER, SPRING 5	1	1	1					
17	3	24311-240100	O-RING, 1AP10A	1	1	1					
18	3	24315-000110	O-RING, 1BP11.0	3	3	3					
19	3	24373-240100	RING, BACK UP T3P10A	1	1	1					
20	3	26450-050102	BOLT, M5X 10	3	3	3					
21	3	26450-050102	BOLT, M5X 10	1	1	1					
22	3	26450-050302	BOLT, M5X 30	2	2	2					Z
23	3	26450-080752	BOLT, M8X 75	4	4	4					
24	2	172A47-75420	O-RING	1	1	1					
25	2	172A47-75600	COVER ASSY, END	1	1	1					
26	3	172458-74460	PLUG	8	8	8					
28	2	24311-000060	O-RING, 1AP6.0	7	7	7					
29	2	24311-000090	O-RING, 1AP9.0	2	2	2					

Remarks

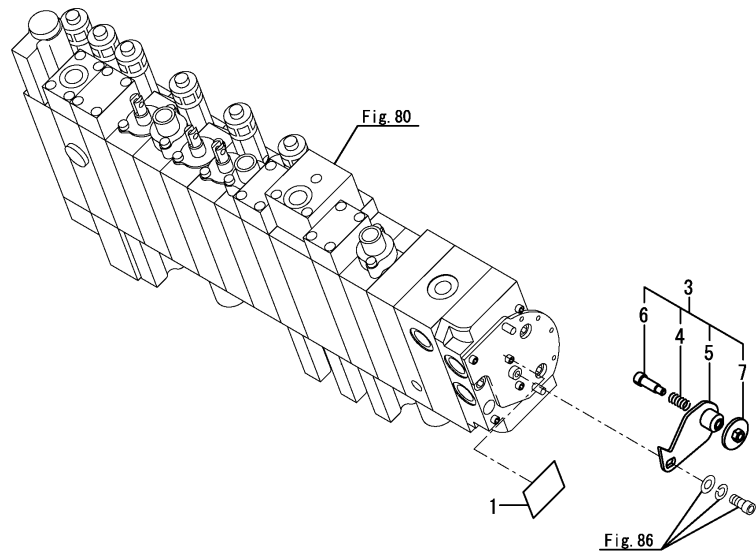
\* Control valve assy is shown in Fig.80.

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

Fig.87. 2-WAY MULTI LEVER(US,AS,NZ)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-03220	LABEL,2-WAY	1	1	1					
2	1	172437-03601	LABEL, 2-WAY US	1	1	1					
3	1	172A47-74601	MULTI V LEVER ASSY	1	1	1					
4	2	1C6141-35370	SPRING, LOCK	1	1	1					
5	2	172A47-74611	LEVER ASSY	1	1	1					
6	2	172A47-74650	SHAFT	1	1	1					
7	2	172A47-74660	KNOB ASSY	1	1	1					

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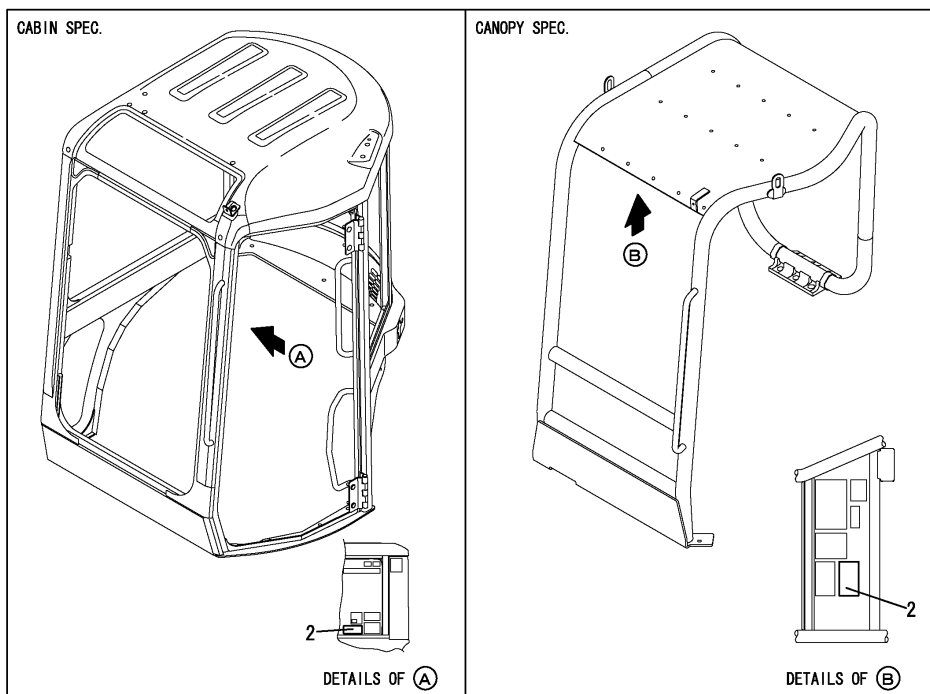
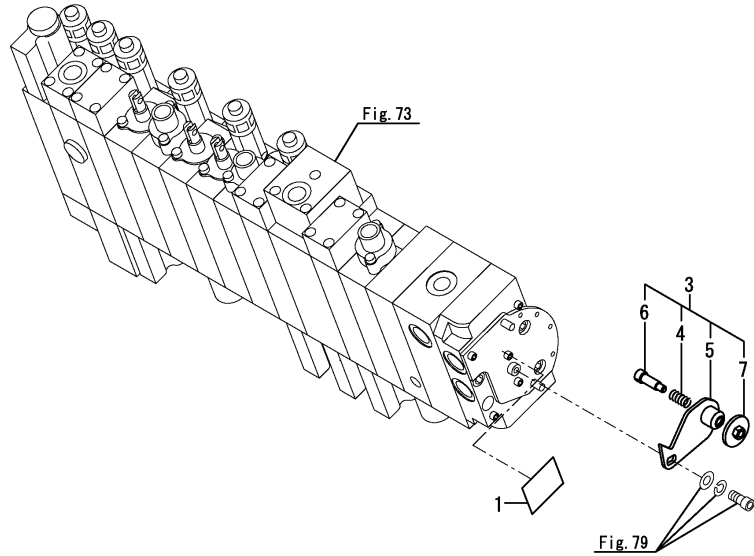


Fig.88. 4-WAY MULTI LEVER(SG)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-03390	LABEL,MULTILEVER US				1				
2	1	172A47-03410	LABEL,4 WAY US				1				
3	1	172A47-74601	MULTI V LEVER ASSY				1				
4	2	1C6141-35370	SPRING, LOCK				1				
5	2	172A47-74611	LEVER ASSY				1				
6	2	172A47-74650	SHAFT				1				
7	2	172A47-74660	KNOB ASSY				1				
8	1	172444-03290	MAGNET				1				

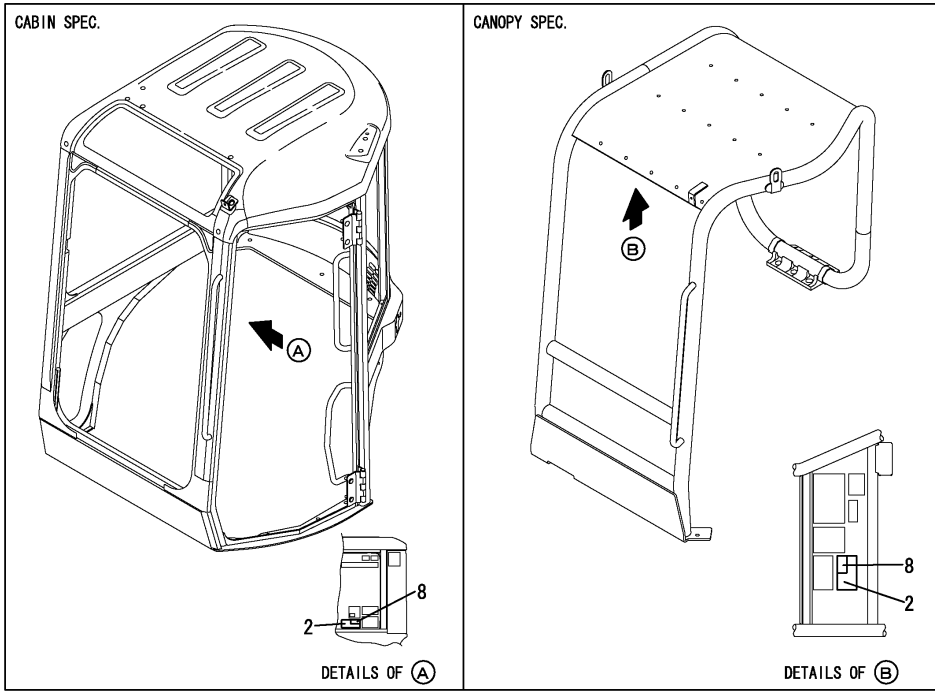
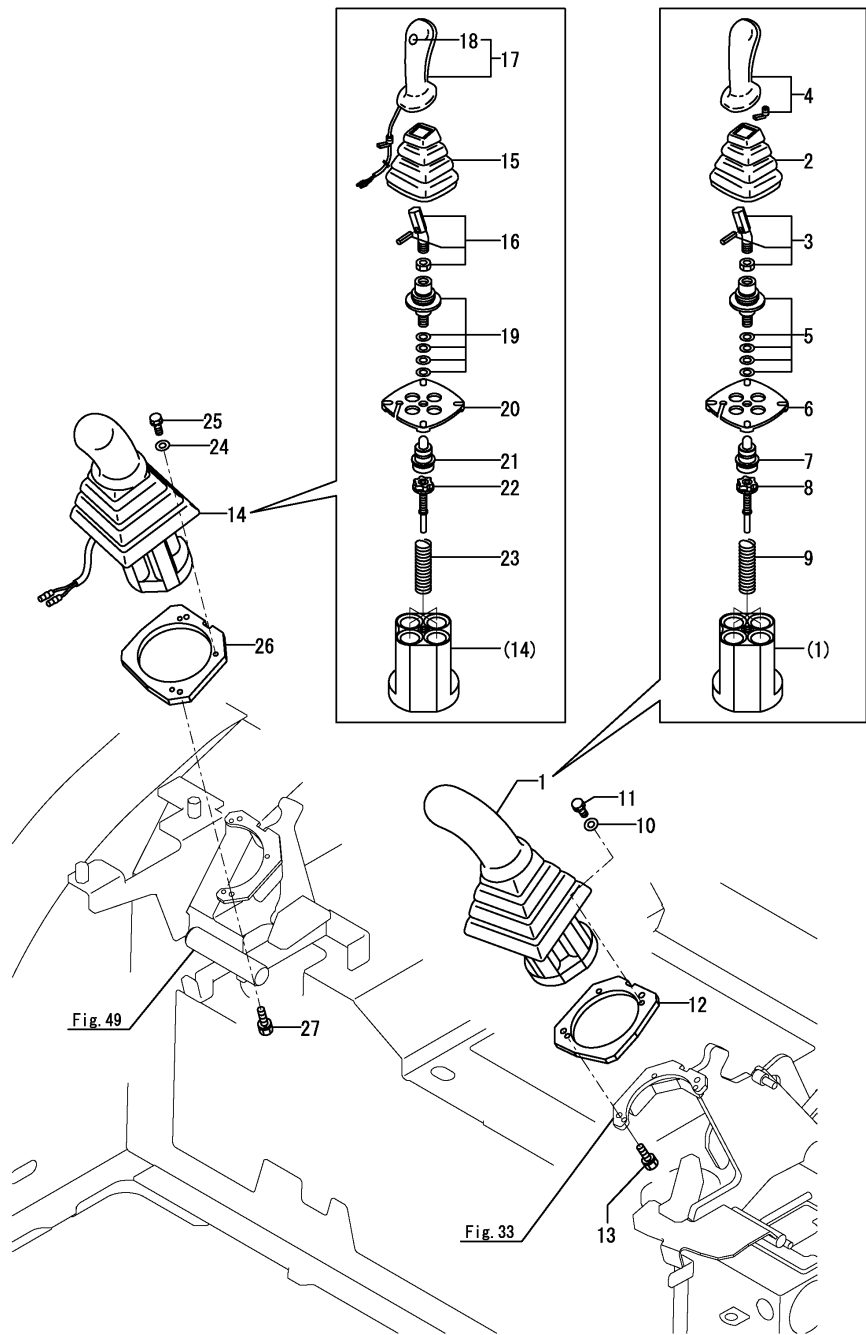




Fig.89. REMOTE CONTROL VALVE

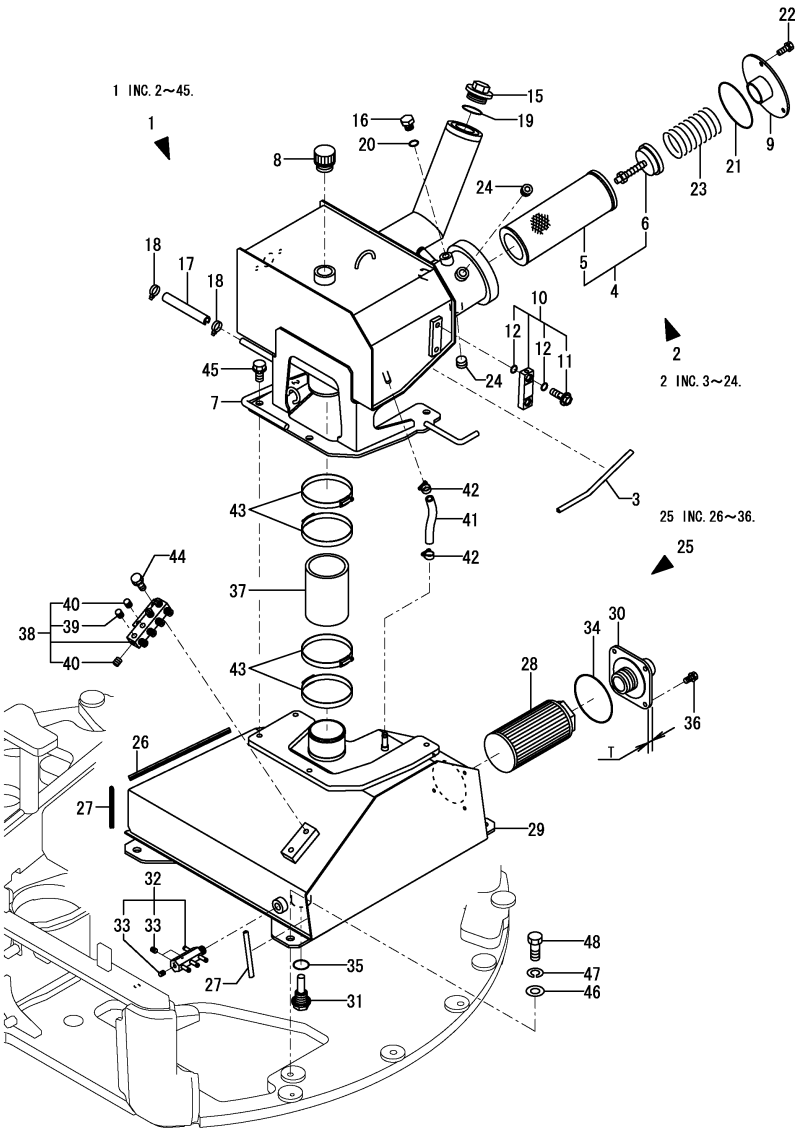
(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172463-74521	VALVE ASSY	1	1	1	1				
2	2	172441-74030	BOOT	1	1	1	1				
3	2	172441-74040	LEVER KIT	1	1	1	1				
4	2	172441-74050	HANDLE	1	1	1	1				
5	2	172463-74530	CARDAN KIT	1	1	1	1				
6	2	172463-74540	PLATE, RETAINING	1	1	1	1				
7	2	172463-74551	PLUNGER KIT	1	1	1	1				
8	2	172463-74561	REGULATION KIT	4	4	4	4				
9	2	172463-74570	SPRING KIT	1	1	1	1				
10	1	22137-060000	WASHER, 6	3	3	3	3				
11	1	26013-060202	BOLT, SPRING M6X 20	3	3	3	3				
12	1	172A78-64510	SPACER, VALVE	1	1	1	1				
13	1	26013-060162	BOLT, SPRING M6X 16	2	2	2	2				
14	1	172A47-74510	VALVE ASSY, PTO	1	1	1	1				
15	2	172441-74030	BOOT	1	1	1	1				
16	2	172441-74040	LEVER KIT	1	1	1	1				
17	2	172A47-74520	HANDLE	1	1	1	1				
18	3	172463-74580	BUTTON COVER KIT	1	1	1	1				
19	2	172463-74530	CARDAN KIT	1	1	1	1				
20	2	172463-74540	PLATE, RETAINING	1	1	1	1				
21	2	172463-74551	PLUNGER KIT	1	1	1	1				
22	2	172463-74561	REGULATION KIT	4	4	4	4				
23	2	172463-74570	SPRING KIT	1	1	1	1				
24	1	22137-060000	WASHER, 6	3	3	3	3				
25	1	26013-060202	BOLT, SPRING M6X 20	3	3	3	3				
26	1	172A78-64510	SPACER, VALVE	1	1	1	1				
27	1	26013-060162	BOLT, SPRING M6X 16	2	2	2	2				

Fig.90. HYD.OIL TANK



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

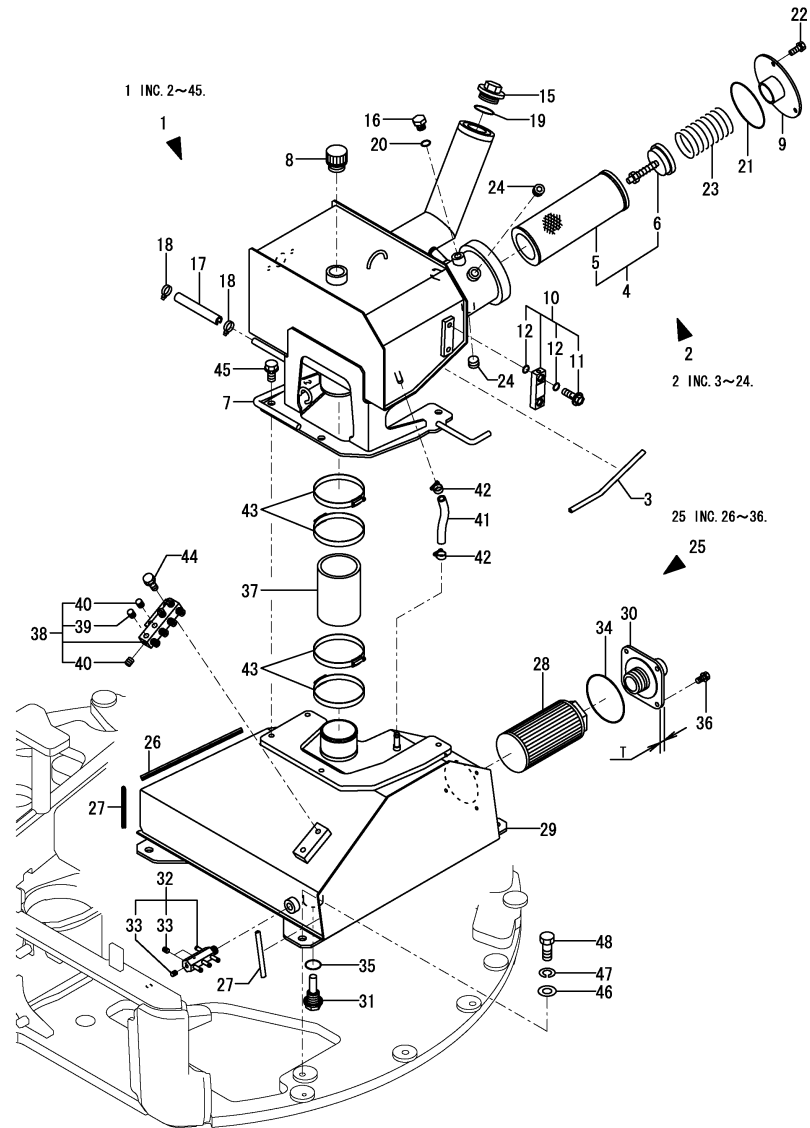
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A46-75100	TANK ASSY, OIL	1	1	1	1				
2	2	772A46-75200	TANK ASSY, OIL	1	1	1	1				
3	3	172434-61190	TRIM	1	1	1	1				
4	3	172175-73700	FILTER ASSY, RETURN	1	1	1	1				
5	4	172175-73710	ELEMENT, FILTER	1	1	1	1				
6	4	172141-73770	VALVE ASSY, BY-PASS	1	1	1	1				
7	3	172A46-75201	TANK ASSY, RESERVOIR	1	1	1	1				1
7-1	3	172A46-75202	TANK ASSY, RESERVOIR	1	1	1	1				N 1
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
8	3	172446-75250	CAP, RESERVER	1	1	1	1				
9	3	172A47-75340	COVER, TANK	1	1	1	1				
10	3	172447-75600	GAUGE ASSY	1	1	1	1				
11	4	172455-75290	BOLT	2	2	2	2				
12	4	172455-75300	O-RING	4	4	4	4				
15	3	172116-75850-B	PLUG, OIL FEED	1	1	1	1				
16	3	172165-76590	PLUG	1	1	1	1				
17	3	172A46-79200	HOSE	1	1	1	1				
18	3	172122-79930	CLAMP, HOSE	2	2	2	2				
19	3	24311-000380	O-RING, 1AP38.0	1	1	1	1				
20	3	24315-000110	O-RING, 1BP11.0	1	1	1	1				
20-1	3	41851-000110	O-RING	1	1	1	1				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
21	3	24321-001050	O-RING, 1AG105.0	1	1	1	1				
22	3	26013-080202	BOLT, M8X 20	3	3	3	3				
22-1	3	26014-080202	BOLT, M8X 20	3	3	3	3				R
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
23	3	933152-02710	SPRING, CLUTCH	1	1	1	1				
24	3	23871-030000	PLUG, R03	2	2	2	2				
25	2	772A46-75110	TANK ASSY, RESERVOIR	1	1	1	1				
26	3	172183-05330	TRIM	1	1	1	1				
27	3	172458-18850	TRIM	2	2	2	2				
28	3	172146-73730	FILTER, SUCTION	1	1	1	1				
29	3	172A46-75100	TANK ASSY, RESERVOIR	1	1	1	1				
30	3	172183-75410	FLANGE, SUCTION	1	1	1	1				
30-1	3	172A46-75500	FLANGE, SUCTION	1	1	1	1				F 3
		(A=M/#53325) (B=M/#53325) (C=M/#53325) (D=M/#53325)									
31	3	172187-75500	PLUG	1	1	1	1				
32	3	172A47-76300	BLOCK, DRAIN	1	1	1	1				
33	4	23871-020000	PLUG, R02	3	3	3	3				
34	3	24321-001050	O-RING, 1AG105.0	1	1	1	1				
35	3	24341-000300	O-RING, 1AS30.0	1	1	1	1				
36	3	26013-080162	BOLT, M8X 16	4	4	4	4				
36-1	3	26014-080252	BOLT, M8X 25	4	4	4	4				S
		(A=M/#53325) (B=M/#53325) (C=M/#53325) (D=M/#53325)									
37	2	172A46-75300	HOSE, RESERVOIR	1	1	1	1				
38	2	172A47-76310	BLOCK, PILOT	1	1	1	1				
39	3	23871-010000	PLUG, R01	1	1	1	1				
40	3	23871-020000	PLUG, R02	2	2	2	2				
41	2	172A46-79120	HOSE	1	1	1	1				
42	2	23001-016000	CLAMP, HOSE 16	2	2	2	2				
43	2	23001-102000	CLAMP, HOSE 102	4	4	4	4				

Remarks  
 (1)Please use this part with following label at the same time.  
 Ref.No.49A.  
 (2)Label is not illustrated.  
 (3)T=Ref.No.30:6mm, No.30-1:12mm.  
 Interchangeable by simultaneous replacement with Ref.No.36-1.

Fig.90. HYD.OIL TANK

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



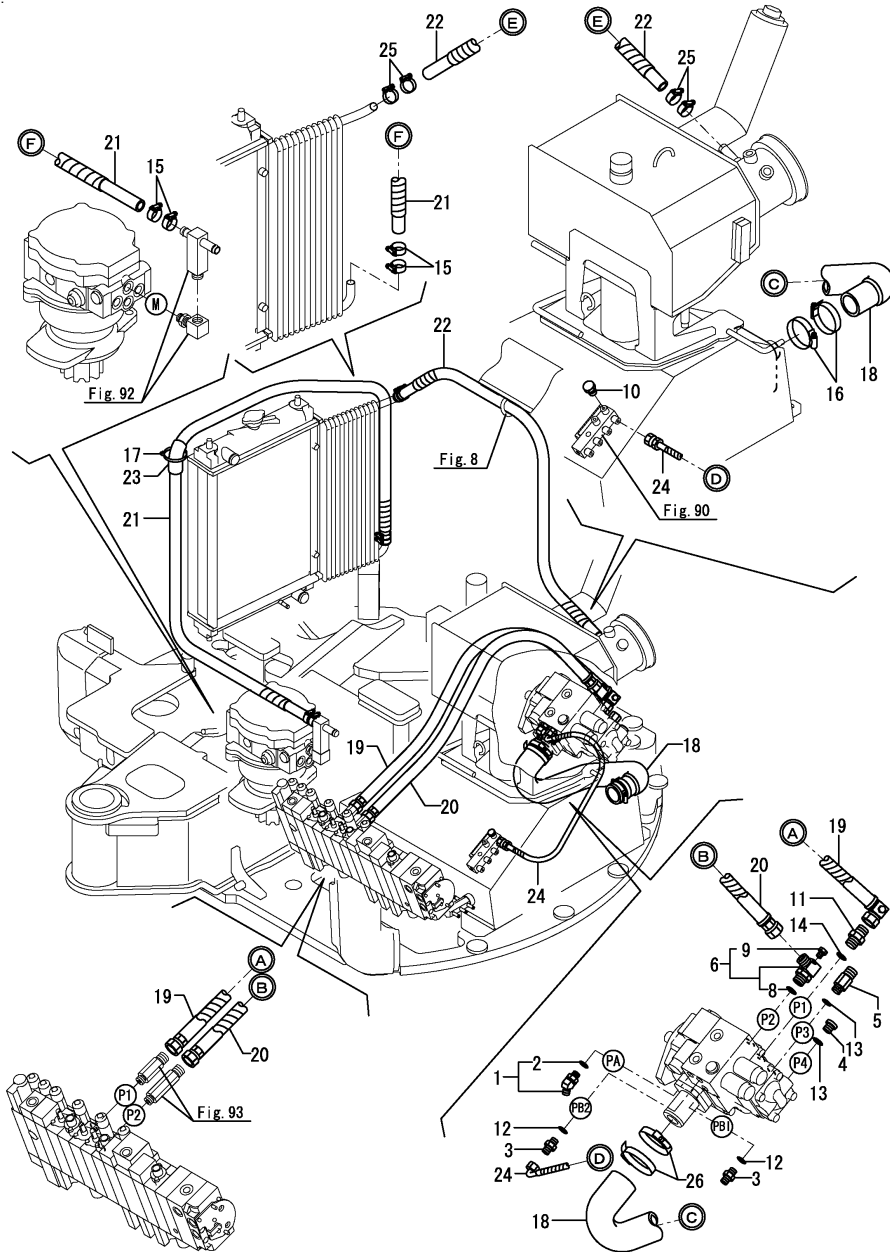
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
44	2	26013-100162	BOLT, M10X 16	2	2	2	2				
44-1	2	26013-100202	BOLT, M10X 20	2	2	2	2				N
		(A=M53298) (B=M53298) (C=M53298) (D=M53298)									
45	2	26013-120252	BOLT, M12X 25	3	3	3	3				
46	1	22137-140000	WASHER, 14	3	3	3	3				
47	1	22217-140000	WASHER, SPRING 14	3	3	3	3				
48	1	26116-140352	BOLT, M14X 35 PLATED	3	3	3	3				
49A	1	172A47-03270	LABEL, PTO SELECT	1	1	1	1				2

Remarks  
 (1) Please use this part with following label at the same time.  
 Ref.No.49A.  
 (2) Label is not illustrated.  
 (3) T=Ref.No.30:6mm, No.30-1:12mm.  
 Interchangeable by simultaneous replacement with Ref.No.36-1.

Fig.91. HYD.OIL PIPING(TANK - PUMP - CONTROL VALVE)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-76102	CONNECTOR ASSY	1	1	1	1				
2	2	41851-000110	O-RING	1	1	1	1				
3	1	172123-76121	ADAPTER	2	2	2	2				
4	1	172183-76180	PLUG	1	1	1	1				
5	1	172422-76180	CONNECTOR, PF3/8X1/2	1	1	1	1				
6	1	172460-76560	CONNECTOR, PF1/2	1	1	1	1				
8	3	24315-000180	O-RING, 1BP18.0	1	1	1	1				
9	2	172460-76570	PLUG, SCREW	1	1	1	1				
10	1	1E3030-78370	CAP. SCREW	1	1	1	1				
11	1	172112-77361	CONNECTOR	1	1	1	1				
12	1	24315-000110	O-RING, 1BP11.0	2	2	2	2				
12-1	1	41851-000110	O-RING	2	2	2	2				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											
13	1	24315-000140	O-RING, 1BP14.0	2	2	2	2				
13-1	1	41851-000140	O-RING	2	2	2	2				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											
14	1	24315-000180	O-RING, 1BP18.0	1	1	1	1				
14-1	1	41851-000180	O-RING	1	1	1	1				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											
15	1	23001-025000	CLAMP, HOSE 25	4	4	4	4				
16	1	23001-060000	CLAMP, HOSE 60	2	2	2	2				
17	1	172183-16560	CLIP, HOSE	1	1	1	1				
18	1	172A45-78100	HOSE,SUCTION	1	1	1	1				
19	1	172A45-78110	HOSE	1	1	1	1				
20	1	172A45-78120	HOSE	1	1	1	1				
21	1	172A46-78321	HOSE	1	1	1	1				
22	1	172A46-78330	HOSE	1	1	1	1				
23	1	172A46-78500	HOSE	1	1	1	1				
24	1	172A45-78570	HOSE	1	1	1	1				
25	1	23001-025000	CLAMP, HOSE 25	4	4	4	4				
26	1	23001-060000	CLAMP, HOSE 60	2	2	2	2				

Remarks

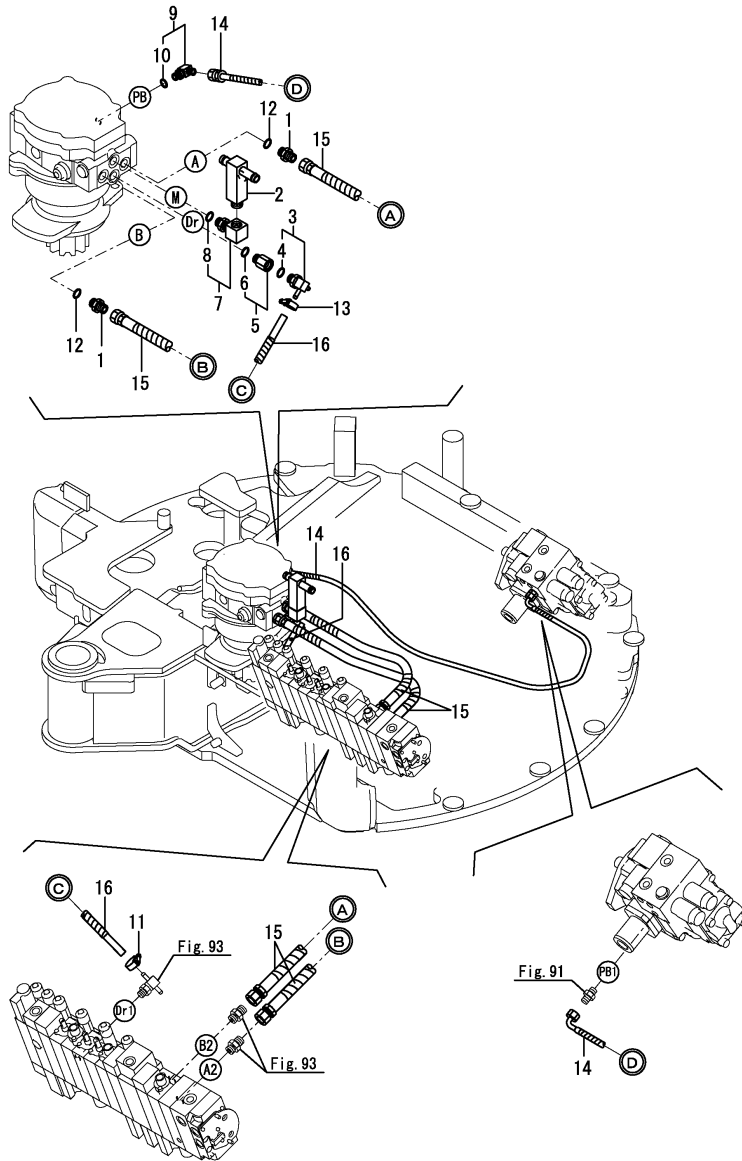
\* Fitting(control valve) is shown in Fig.93.

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

Fig.92. HYD.OIL PIPING(CONTROL VALVE - TURNING MOTOR)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



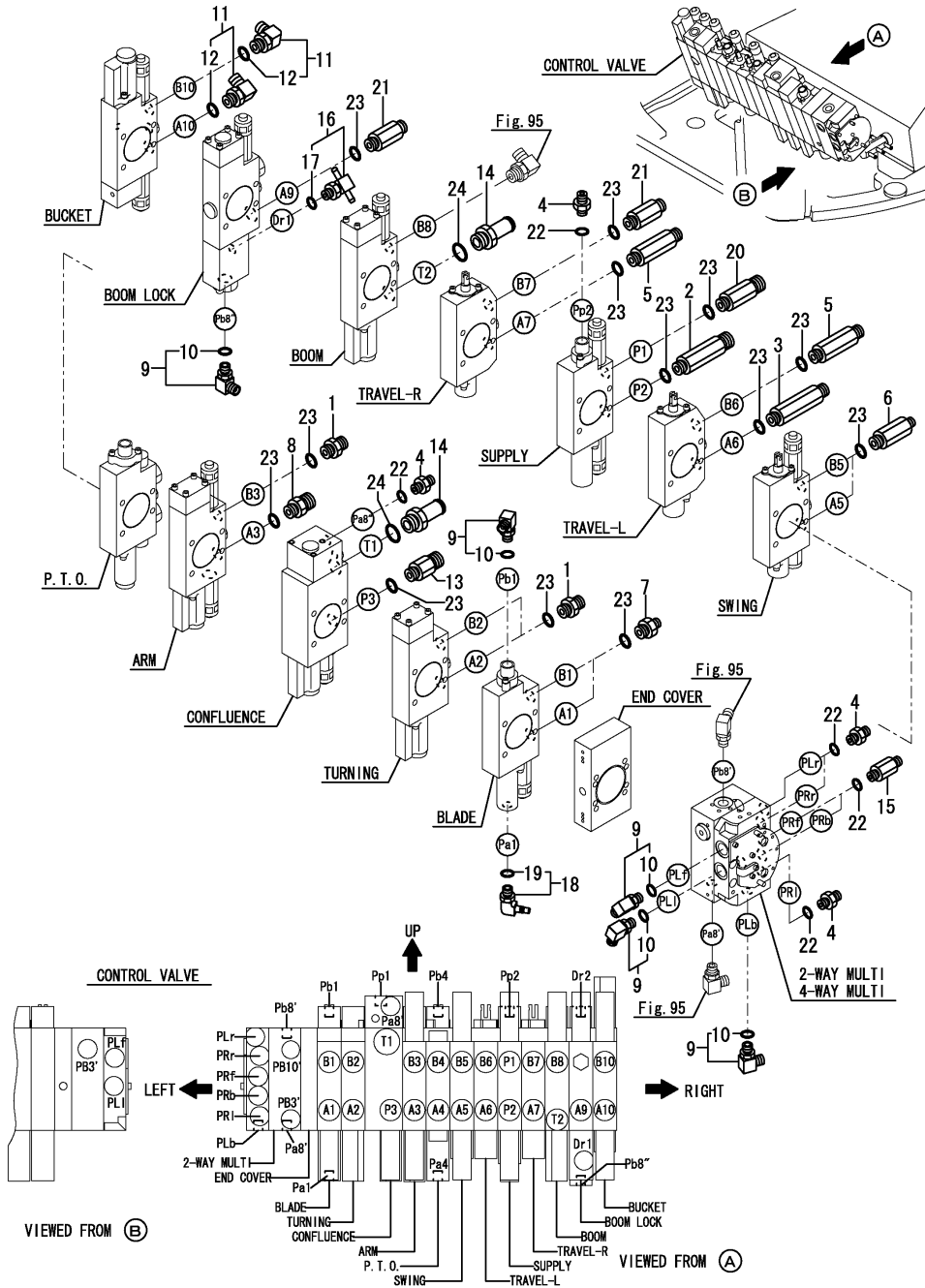
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2	2	2	2				
2	1	172A46-76100	NIPPLE, TEE	1	1	1	1				
3	1	172A52-76110	NIPPLE, TEE	1	1	1	1				
4	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
5	1	172A52-76130	ADAPTER	1	1	1	1				
6	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
7	1	172458-76160	ELBOW	1	1	1	1				
8	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
9	1	172141-76181	CONNECTOR ASSY, 02FF	1	1	1	1				
10	2	41851-000110	O-RING	1	1	1	1				
11	1	23000-013000	CLAMP, 13	1	1	1	1				
12	1	24315-000140	O-RING, 1BP14.0	2	2	2	2				
12-1	1	41851-000140	O-RING	2	2	2	2				N
		(A=M53092)	(B=M53092)	(C=M53092)	(D=M53092)						
13	1	23000-013000	CLAMP, 13	1	1	1	1				
14	1	172A46-78581	HOSE	1	1	1	1				
15	1	172A46-78260	HOSE	2	2	2	2				
16	1	172A46-78350	HOSE	1	1	1	1				

Remarks

\* Fitting(control valve) is shown in Fig.93.

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

Fig.93. HYD.OIL PIPING(CONTROL VALVE : FITTING)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

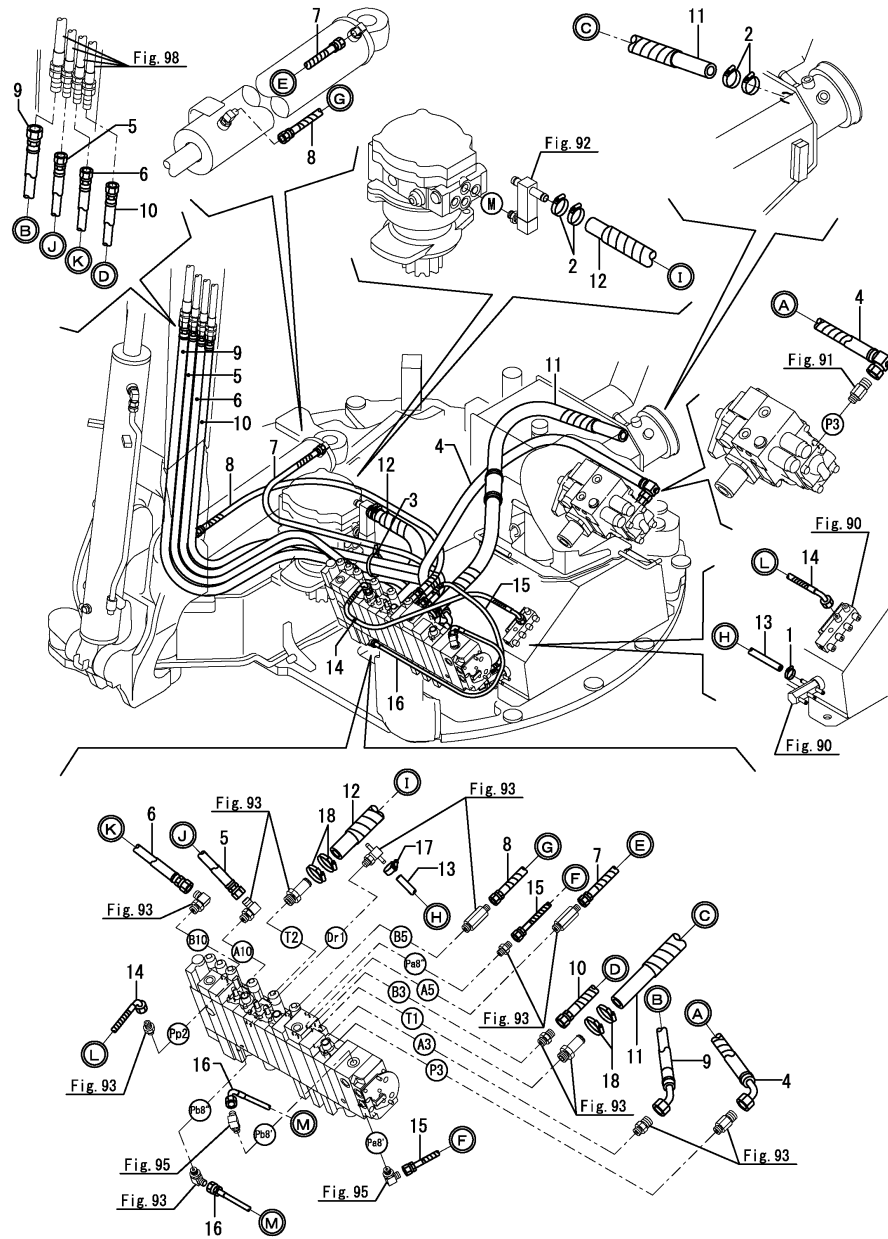
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	3	3	3	3				
2	1	172A46-76110	CONNECTOR	1	1	1	1				
3	1	172A46-76120	CONNECTOR	1	1	1	1				
4	1	172123-76121	ADAPTER	5	5	5	5				
5	1	172162-76131	ADAPTER	2	2	2	2				
6	1	172422-76130	CONNECTOR	2	2	2	2				
7	1	172124-76160	CONNECTOR	2	2	2	2				
8	1	172168-76162	CONNECTOR, PF1/2X3/8	1	1	1	1				
9	1	172141-76181	CONNECTOR ASSY, 02FF	5	5	5	5				
10	2	41851-000110	O-RING	5	5	5	5				
11	1	172142-76181	JOINT ASSY	2	2	2	2				
12	2	24315-000140	O-RING, 1BP14.0	2	2	2	2				
13	1	172422-76180	CONNECTOR, PF3/8X1/2	1	1	1	1				
14	1	172A47-76191	NIPPLE	2	2	2	2				
15	1	172183-76200	CONNECTOR	2	2	2	2				
16	1	172A47-76230	NIPPLE, TEE	1	1	1	1				
17	2	24315-000110	O-RING, 1BP11.0	1	1	1	1				
17-1	2	41851-000110	O-RING	1	1	1	1				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											
18	1	172A47-76261	ELBOW, COUPLER	1	1	1	1				
19	2	41851-000110	O-RING	1	1	1	1				
20	1	172192-76340	CONNECTOR	1	1	1	1				
21	1	172116-76381	ADAPTER, 64	2	2	2	2				
22	1	24315-000110	O-RING, 1BP11.0	7	7	7	7				
22-1	1	41851-000110	O-RING	7	7	7	7				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											
23	1	24315-000140	O-RING, 1BP14.0	16	16	16	16				
23-1	1	41851-000140	O-RING	16	16	16	16				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											
24	1	24315-000180	O-RING, 1BP18.0	2	2	2	2				
24-1	1	41851-000180	O-RING	2	2	2	2				N
(A=M53092) (B=M53092) (C=M53092) (D=M53092)											

Fig.94. HYD.OIL PIPING(CONTROL VALVE - BOOM, SWING)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	23000-013000	CLAMP, 13	1	1	1	1				
2	1	23001-025000	CLAMP, HOSE 25	4	4	4	4				
3	1	194202-56460	BAND, 200	1	1	1	1				
4	1	172A46-78131	HOSE	1	1	1	1				
5	1	172A46-78140	HOSE	1	1	1	1				
6	1	172A46-78150	HOSE	1	1	1	1				
7	1	172A46-78220	HOSE	1	1	1	1				
8	1	172A46-78230	HOSE	1	1	1	1				
9	1	172A46-78240	HOSE	1	1	1	1				
10	1	172A46-78250	HOSE	1	1	1	1				
11	1	172A46-78300	HOSE	1	1	1	1				
12	1	172A45-78310	HOSE	1	1	1	1				
13	1	172A46-78360	HOSE	1	1	1	1				
14	1	172A46-78590	HOSE	1	1	1	1				
15	1	172A47-78610	HOSE	1	1	1	1				
16	1	172A47-78620	HOSE	1	1	1	1				
17	1	23000-013000	CLAMP, 13	1	1	1	1				
18	1	23001-025000	CLAMP, HOSE 25	4	4	4	4				



Remarks

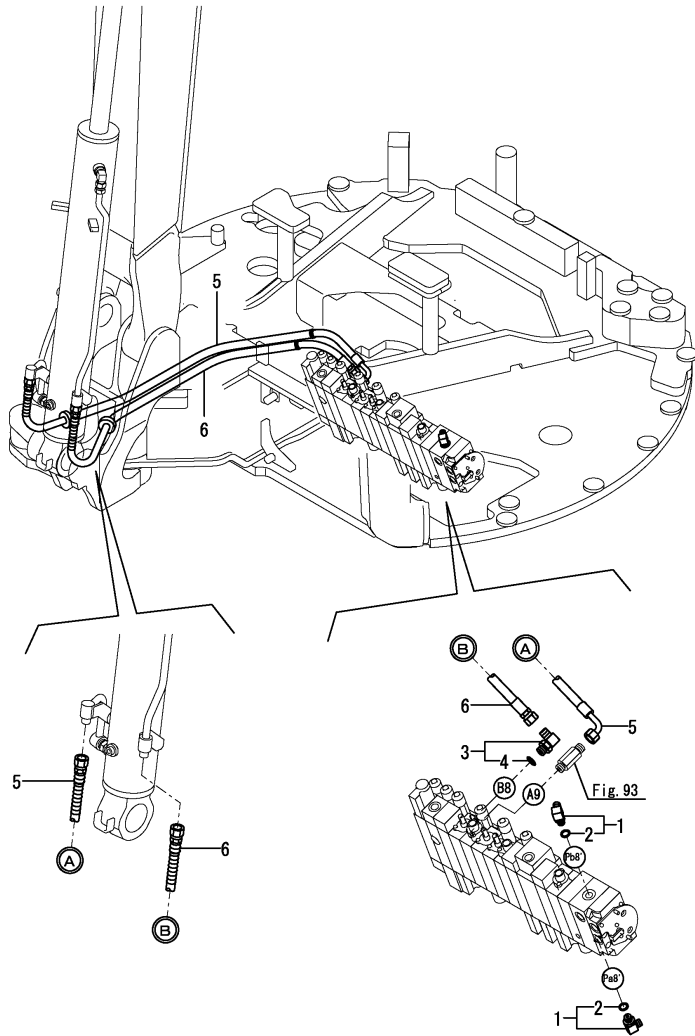
\* Fitting(control valve) is shown in Fig.93.

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

Fig.95. HYD.OIL PIPING(CONTROL VALVE - BOOM CYLINDER)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-76181	CONNECTOR ASSY, 02FF	2	2	2	2				
2	2	41851-000110	O-RING	2	2	2	2				
3	1	172142-76181	JOINT ASSY	1	1	1	1				
4	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
5	1	172A46-78160	HOSE	1	1	1	1				
6	1	172A46-78170	HOSE	1	1	1	1				

Remarks

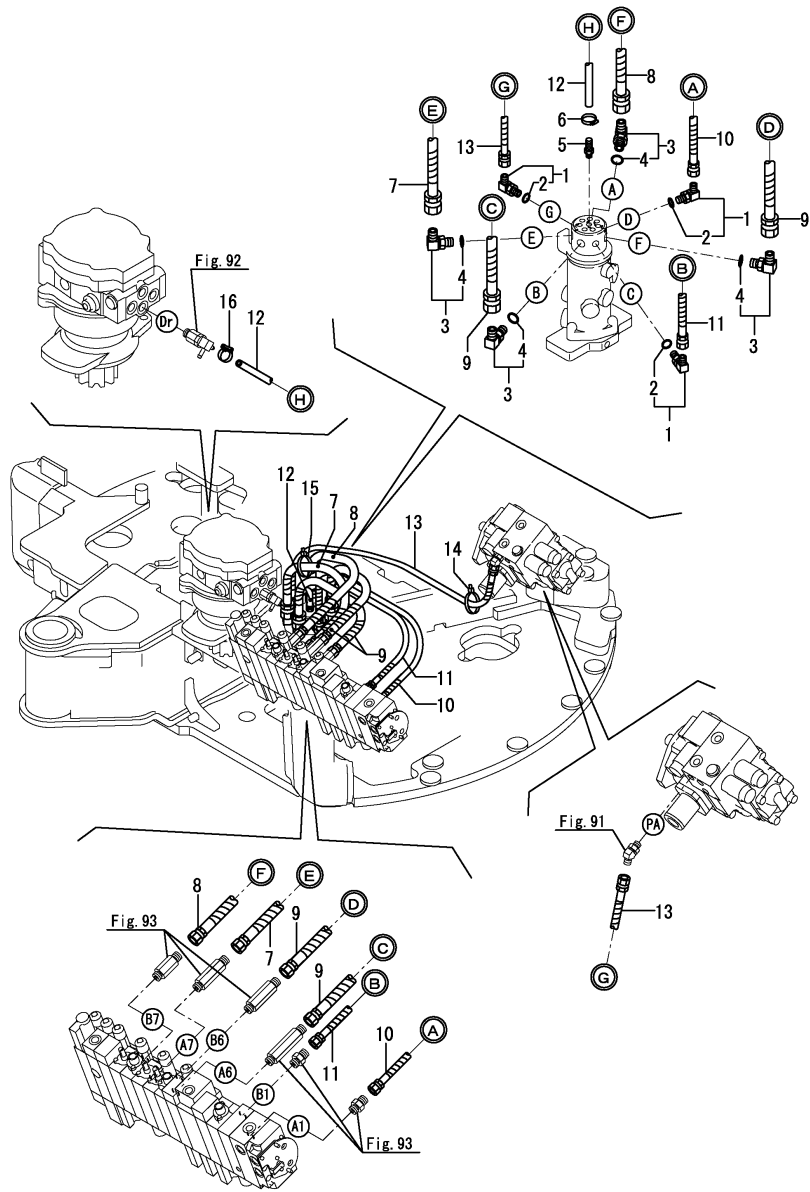
\* Fitting(control valve) is shown in Fig.93.



Fig.96. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



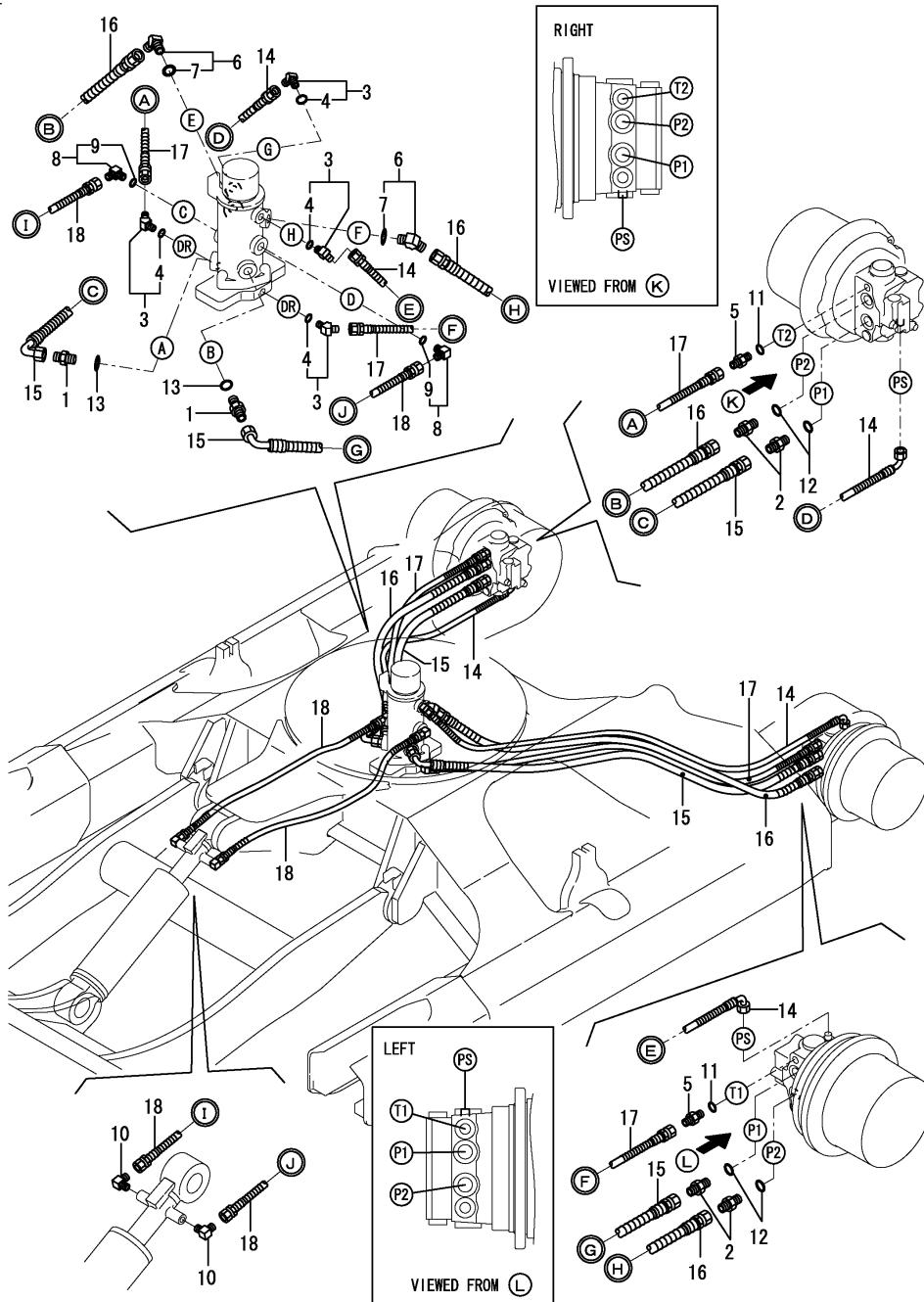
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-76181	CONNECTOR ASSY, 02FF	3	3	3	3				
2	2	41851-000110	O-RING	3	3	3	3				
3	1	172142-76181	JOINT ASSY	4	4	4	4				
4	2	24315-000140	O-RING, 1BP14.0	4	4	4	4				
5	1	172141-76220	NIPPLE	1	1	1	1				
6	1	23000-013000	CLAMP, 13	1	1	1	1				
7	1	172A46-78180	HOSE	1	1	1	1				
8	1	172A46-78190	HOSE	1	1	1	1				
9	1	172A46-78200	HOSE	2	2	2	2				
10	1	172A46-78280	HOSE	1	1	1	1				
11	1	172A46-78290	HOSE	1	1	1	1				
12	1	172A46-78340	HOSE	1	1	1	1				
13	1	172A45-78600	HOSE	1	1	1	1				
14	1	172122-79930	CLAMP, HOSE	1	1	1	1				
15	1	172122-79930	CLAMP, HOSE	1	1	1	1				
16	1	23000-013000	CLAMP, 13	1	1	1	1				

Remarks  
 \* Fitting(control valve) is shown in Fig.93.

Fig.97. HYD.OIL PIPING(TRACK FRAME)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

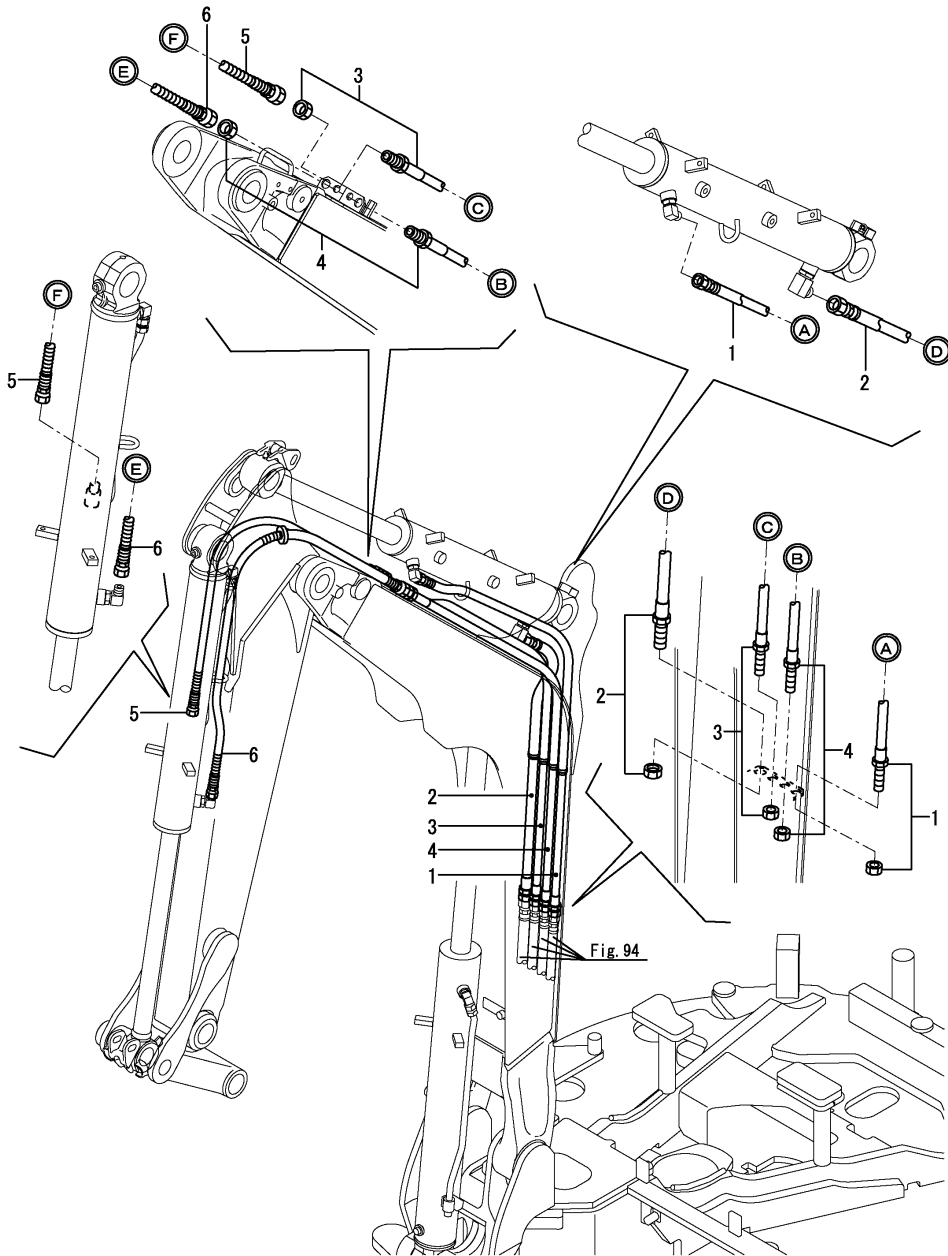


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2	2	2	2				
2	1	172730-75141	ADAPTER	4	4	4	4				
3	1	172173-76102	CONNECTOR ASSY	4	4	4	4				
4	2	41851-000110	O-RING	4	4	4	4				
5	1	172123-76121	ADAPTER	2	2	2	2				
6	1	172644-76161	ELBOW, ADJUST	2	2	2	2				
7	2	24315-000140	O-RING, 1BP14.0	2	2	2	2				
8	1	172141-76181	CONNECTOR ASSY, 02FF	2	2	2	2				
9	2	41851-000110	O-RING	2	2	2	2				
10	1	23393-020000	JOINT, 90RGI-1/4	2	2	2	2				
11	1	24315-000110	O-RING, 1BP11.0	2	2	2	2				
11-1	1	41851-000110	O-RING	2	2	2	2				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)		4	4	4	4				
12	1	24315-000140	O-RING, 1BP14.0	4	4	4	4				
12-1	1	41851-000140	O-RING	4	4	4	4				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)		2	2	2	2				
13	1	24315-000140	O-RING, 1BP14.0	2	2	2	2				
13-1	1	41851-000140	O-RING	2	2	2	2				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)		2	2	2	2				
14	1	172457-78211	HOSE	2	2	2	2				
15	1	172457-78221	HOSE	2	2	2	2				
16	1	172457-78231	HOSE	2	2	2	2				
17	1	172457-78241	HOSE	2	2	2	2				
18	1	172422-78390	HOSE	2	2	2	2				

Fig.98. HYD.OIL PIPING(BOOM)

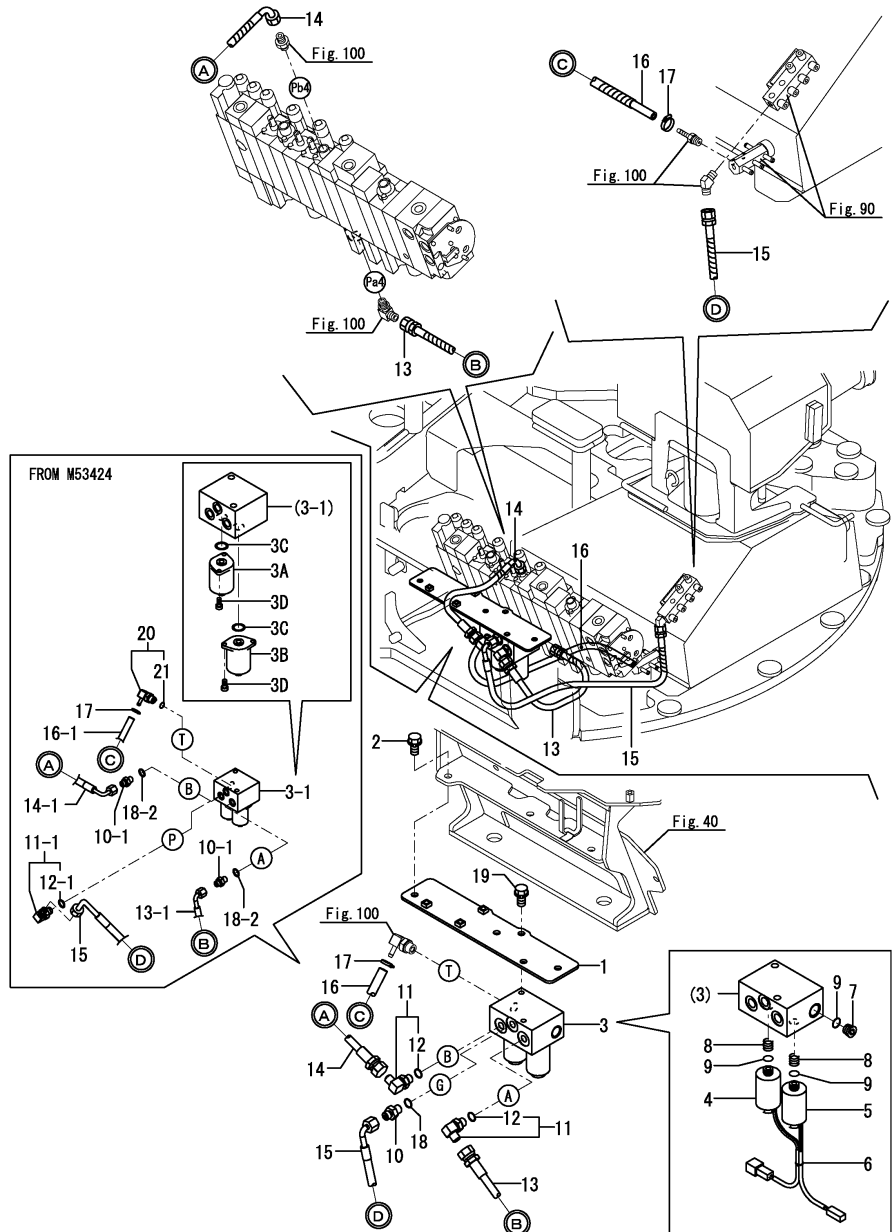
(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-78400	HOSE	1	1	1	1				
2	1	172A44-78390	HOSE	1	1	1	1				
3	1	172A44-78410	HOSE	1	1	1	1				
4	1	172A44-78420	HOSE	1	1	1	1				
5	1	172A84-78430	HOSE	1	1	1	1				
6	1	172A84-78690	HOSE	1	1	1	1				

Fig.99. HYD.OIL PIPING(P.T.O. : SOLENOID VALVE - CONTROL VALVE)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-71300	BRACKET ASSY	1	1	1	1				
2	1	26013-100252	BOLT, M10X 25	3	3	3	3				
3	1	172A47-74130	VALVE ASSY, PTO	1	1	1	1				
3-1	1	172A79-74500 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	VALVE ASSY, PTO	1	1	1	1				F 1
3A	2	172A79-74510 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	VALVE, SOLENOID	1	1	1	1				W
3B	2	172A79-74520 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	VALVE, SOLENOID	1	1	1	1				W
3C	2	24311-000160 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	O-RING, 1AP16.0	2	2	2	2				W
3D	2	26450-050102 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	BOLT, M5X 10	4	4	4	4				W
4	2	172A47-74140 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	VALVE, SOLENOID	1	1	1	1				Z
5	2	172A47-74150 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	VALVE, SOLENOID	1	1	1	1				Z
6	2	172A47-74160 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	BAND	1	1	1	1				Z
7	2	172142-74670 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	PLUG	1	1	1	1				Z
8	2	172449-74720 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	SPRING	2	2	2	2				Z
9	2	24315-000140 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	O-RING, 1BP14.0	3	3	3	3				Z
10	1	172123-76121 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	ADAPTER	1	1	1	1				
10-1	1	172123-76121 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	ADAPTER	2	2	2	2				K
11	1	172141-76181 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	CONNECTOR ASSY, 02FF	2	2	2	2				
11-1	1	172141-76181 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	CONNECTOR ASSY, 02FF	1	1	1	1				K
12	2	41851-000110 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	O-RING	2	2	2	2				
12-1	2	41851-000110 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	O-RING	1	1	1	1				K
13	1	172A47-78660 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				
13-1	1	172A79-78250 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				S
14	1	172A47-78670 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				
14-1	1	172A79-78260 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				S
15	1	172A47-78680 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				
16	1	172A47-78760 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				
16-1	1	172A79-78270 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	HOSE	1	1	1	1				S
17	1	23000-013000 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	CLAMP, 13	2	2	2	2				
18	1	24315-000110 (A=M53092) (B=M53092) (C=M53092) (D=M53092)	O-RING, 1BP11.0	1	1	1	1				
18-1	1	41851-000110 (A=M53092) (B=M53092) (C=M53092) (D=M53092)	O-RING	1	1	1	1				N
18-2	1	41851-000110 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	O-RING	2	2	2	2				K
19	1	26013-100202	BOLT, M10X 20	2	2	2	2				

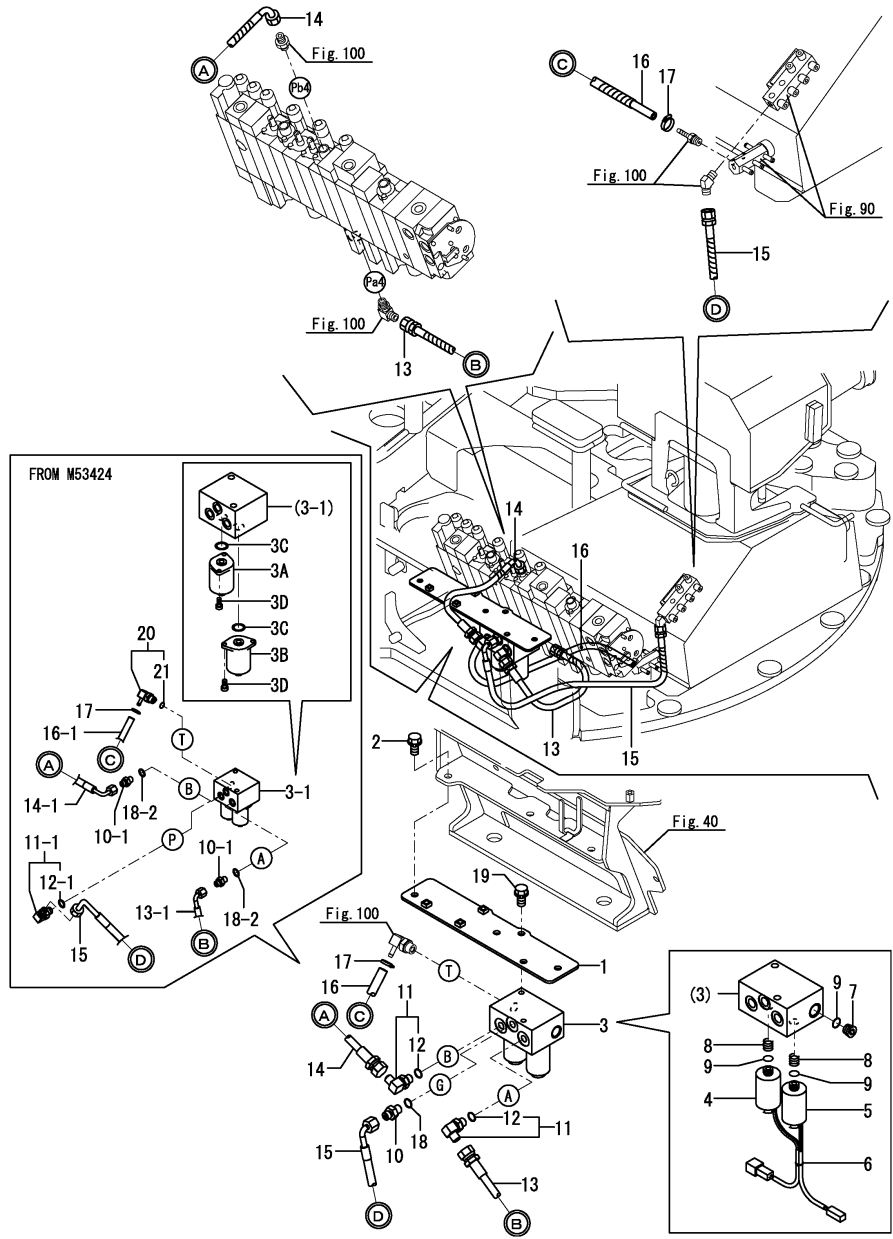
Remarks  
 (1)Interchangeable by simultaneous replacement with Ref.No.10-1,11-1,13-1,14-1,16-1,18-2,20.

Fig.99. HYD.OIL PIPING(P.T.O. : SOLENOID VALVE - CONTROL VALVE)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
20	1	172186-76430 (A=M53424) (B=M53424) (C=M53424) (D=M53424)	NIPPLE, ELBOW	1	1	1	1				W
21	2	24315-000110	O-RING, 1BP11.0	1	1	1	1				

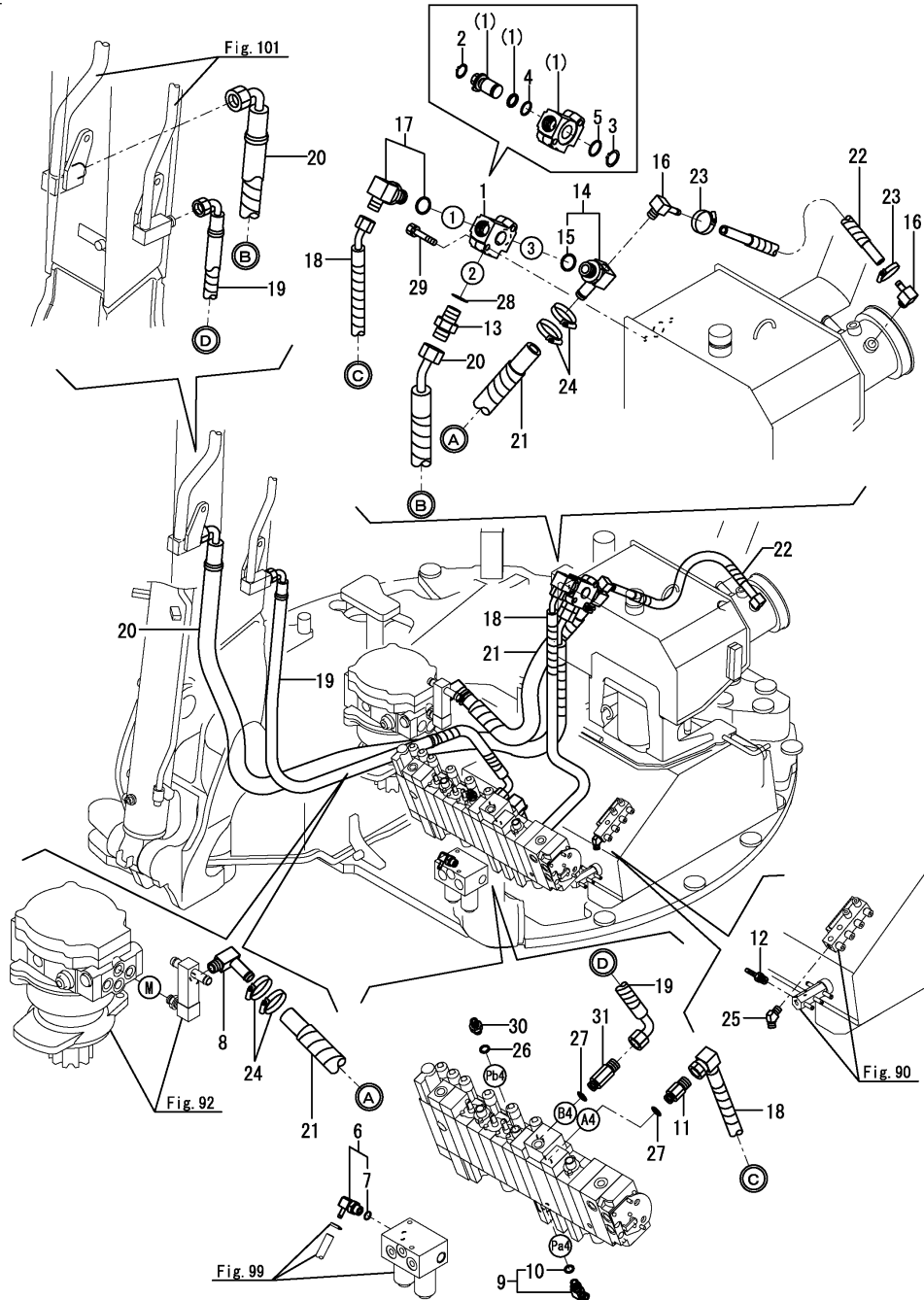


Remarks  
 (1) Interchangeable by simultaneous replacement with Ref.No.10-1,11-1,13-1,14-1,16-1,18-2,20.

Fig.100. HYD.OIL PIPING(P.T.O. : CONTROL VALVE - BOOM)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

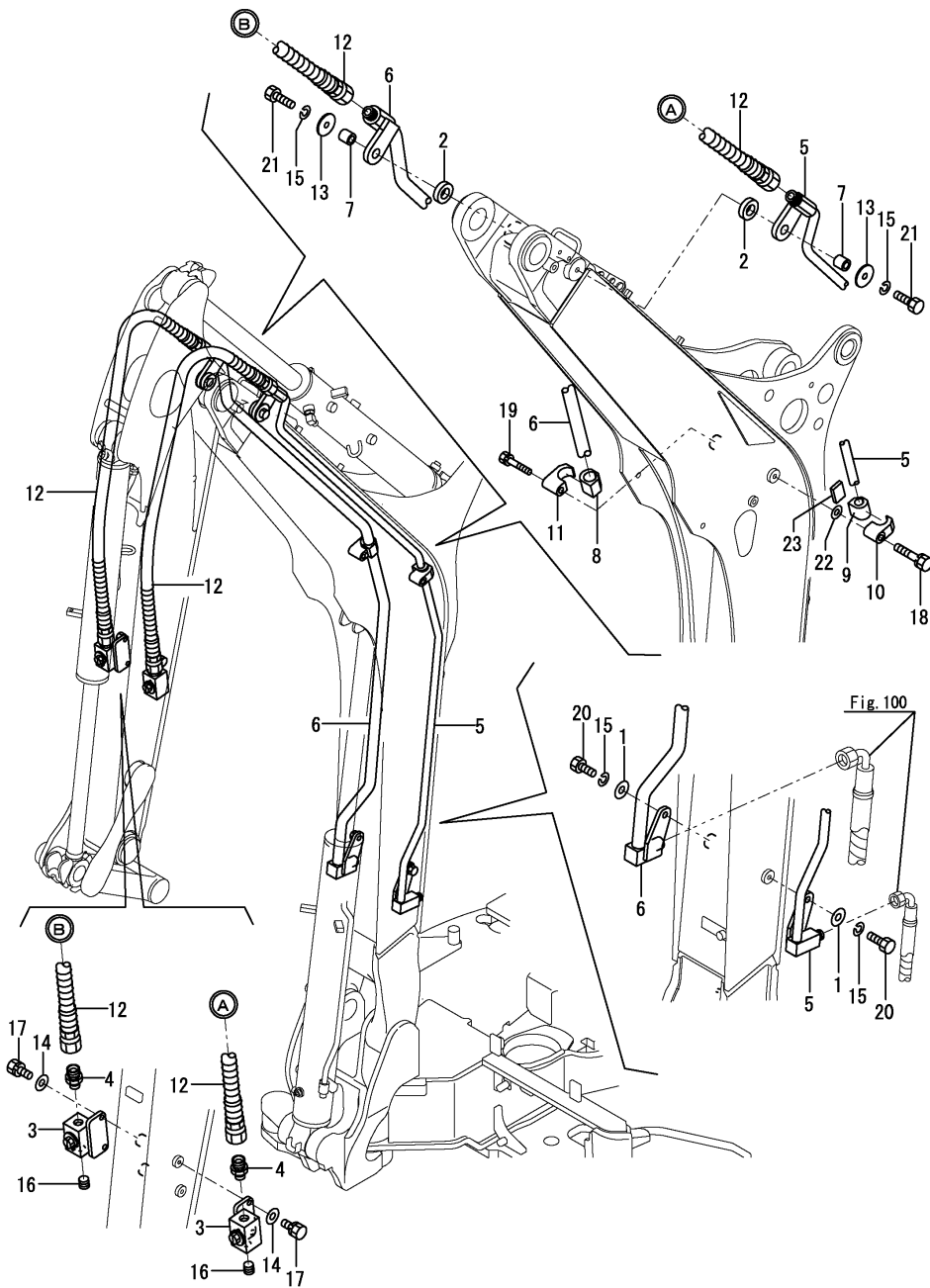


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-74120	VALVE ASSY, CHANGE	1	1	1	1				
1-1	1	172A47-74121	VALVE ASSY, SELECOR	1	1	1	1				N
		(A=M53716) (B=M53716) (C=M53716) (D=M53716)									
2	2	22242-000210	RING, 21	1	1	1	1				
3	2	22242-000250	RING, 25	1	1	1	1				
4	2	24315-000210	O-RING, 1BP21.0	1	1	1	1				
5	2	24315-000250	O-RING, 1BP25.0	1	1	1	1				
6	1	172A47-76120	NIPPLE, ELBOW	1	1	1	1				Z
		(A=M53424) (B=M53424) (C=M53424) (D=M53424)									
7	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
8	1	172455-76160	ELBOW	1	1	1	1				
9	1	172141-76181	CONNECTOR ASSY, 02FF	1	1	1	1				
10	2	41851-000110	O-RING	1	1	1	1				
11	1	172422-76180	CONNECTOR, PF3/8X1/2	1	1	1	1				
12	1	172141-76220	NIPPLE	1	1	1	1				
13	1	172142-76240	JOINT	1	1	1	1				
14	1	172A46-76130	NIPPLE, ELBOW	1	1	1	1				
15	2	24315-000240	O-RING, 1BP24.0	1	1	1	1				
16	1	172168-76370	ELBOW	2	2	2	2				
17	1	172534-76760	ELBOW	1	1	1	1				
18	1	172A46-78771	HOSE	1	1	1	1				
19	1	172A46-78781	HOSE	1	1	1	1				
20	1	172A46-78791	HOSE	1	1	1	1				
21	1	172A46-78801	HOSE	1	1	1	1				
22	1	172A46-78811	HOSE	1	1	1	1				
23	1	23001-016000	CLAMP, HOSE 16	2	2	2	2				
24	1	23001-025000	CLAMP, HOSE 25	4	4	4	4				
25	1	23394-020000	JOINT, 45RGI-1/4	1	1	1	1				
26	1	24315-000110	O-RING, 1BP11.0	1	1	1	1				
26-1	1	41851-000110	O-RING	1	1	1	1				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
27	1	24315-000140	O-RING, 1BP14.0	2	2	2	2				
27-1	1	41851-000140	O-RING	2	2	2	2				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
28	1	24315-000240	O-RING, 1BP24.0	1	1	1	1				
28-1	1	41851-000240	O-RING	1	1	1	1				N
		(A=M53092) (B=M53092) (C=M53092) (D=M53092)									
29	1	26013-100502	BOLT, M10X 50	2	2	2	2				
30	1	172123-76121	ADAPTER	1	1	1	1				
31	1	172192-76340	CONNECTOR	1	1	1	1				

Fig.101. HYD.OIL PIPING(P.T.O. : BOOM - ARM END)

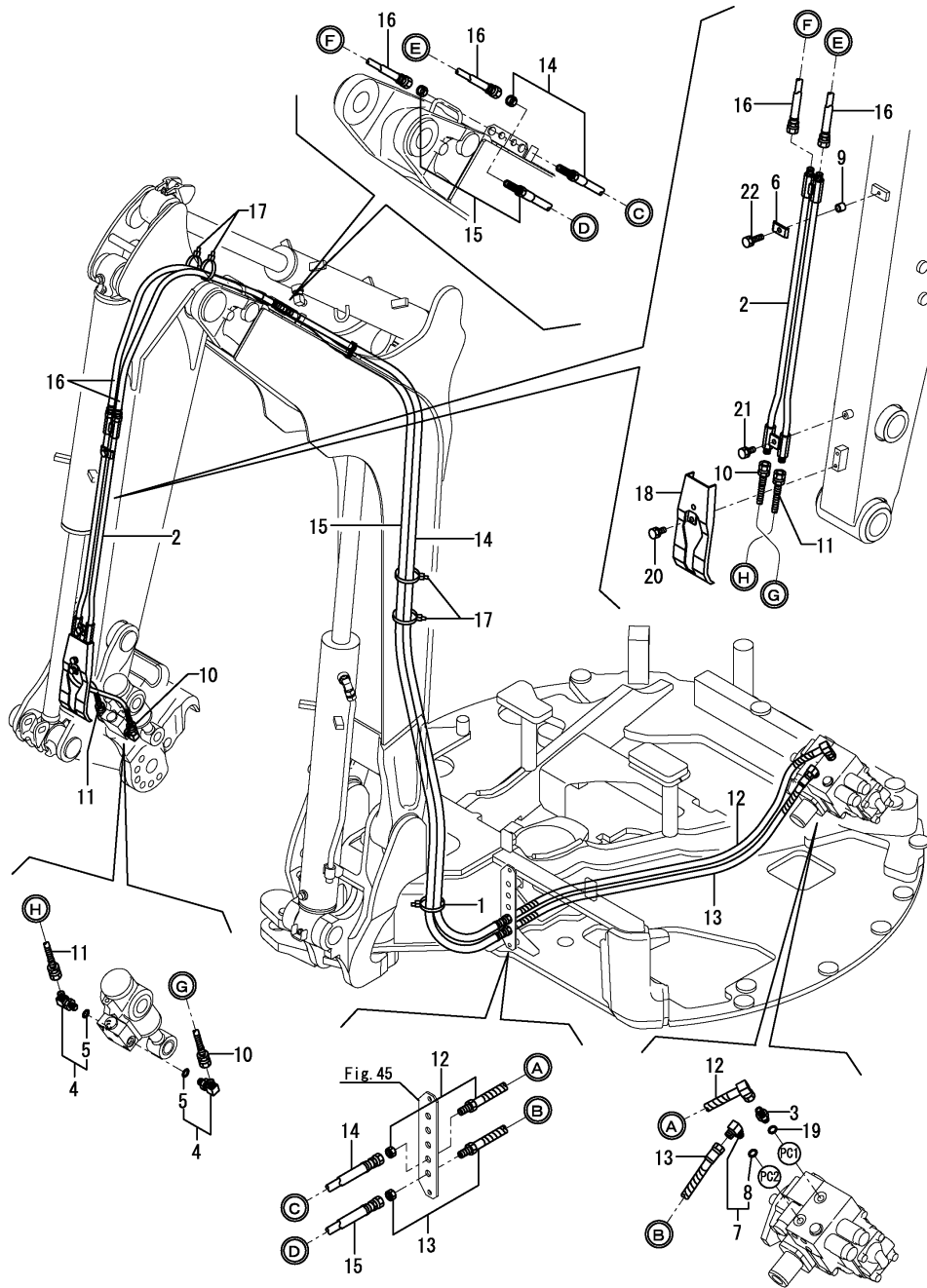
(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172147-13150	WASHER	2	2	2	2				
1-1	1	172147-13151	WASHER	2	2	2	2				N
		(A=M53448) (B=M53448) (C=M53448) (D=M53448)									
2	1	172A52-14200	PAD, ABSORBER	2	2	2	2				
3	1	172183-74821-3	VALVE, STOP	2	2	2	2				
3-1	1	172183-74822-3	VALVE ASSY, STOP	2	2	2	2				N
		(A=M53420) (B=M53420) (C=M53420) (D=M53420)									
3-2	1	172183-74822-Y	VALVE, STOP	2	2	2	2				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
4	1	172633-76160	ADAPTER	2	2	2	2				
4-1	1	172162-76141	ADAPTER, 1/2-3/4	2	2	2	2				N
		(A=M53171) (B=M53171) (C=M53171) (D=M53171)									
5	1	172A44-76401-2	TUBE ASSY, PTO	1	1	1	1				
5-1	1	172A44-76401-Y	TUBE ASSY, PTO	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
6	1	172A44-76451-2	TUBE ASSY, PTO	1	1	1	1				
6-1	1	172A44-76451-Y	TUBE ASSY, PTO	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
7	1	172A47-76460	COLLAR	2	2	2	2				
8	1	172A46-76471	RUBBER, TUBE	1	1	1	1				
9	1	172A46-76481	RUBBER, TUBE	1	1	1	1				
10	1	172142-76940-2	CLAMP	1	1	1	1				
10-1	1	172142-76940-Y	CLAMP	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
11	1	172151-76990-2	CLAMP	1	1	1	1				
11-1	1	172151-76990-Y	CLAMP	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
12	1	172A44-78850	HOSE	2	2	2	2				
12-1	1	172A44-78851	HOSE G212BB086W	2	2	2	2				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
13	1	172146-82910	SPACER	2	2	2	2				
14	1	22117-100000	WASHER, 10	4	4	4	4				
15	1	22217-120000	WASHER, SPRING 12	4	4	4	4				
16	1	23871-040000	PLUG, R04	2	2	2	2				
17	1	26013-100252	BOLT, M10X 25	4	4	4	4				
18	1	26013-120552	BOLT, M12X 55	1	1	1	1				
18-1	1	26013-120602	BOLT, M12X 60	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
19	1	26013-120602	BOLT, M12X 60	1	1	1	1				
20	1	26076-120302	BOLT, 10.912X 30	2	2	2	2				
21	1	26076-120402	BOLT, 10.912X 40	2	2	2	2				
22	1	172149-66550	WASHER	1	1	1	1				W
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
23	1	172A46-76530	PLATE, RUBBER	1	1	1	1				W
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									

Fig.102. HYD.OIL PIPING(QUICK COUPLER)



(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194202-56460	BAND, 200	2	2	2	2				
2	1	172958-76102-2	TUBE, HITCH	1	1	1	1				
2-1	1	172958-76102-Y	TUBE, HITCH	1	1	1	1				S
3	1	(A=M54001) 172123-76121	ADAPTER	1	1	1	1				
4	1	(B=M54001) 172958-76130	ELBOW	2	2	2	2				
5	2	(C=M54001) 24315-000110	O-RING, 1BP11.0	2	2	2	2				
6	1	(D=M54001) 172110-76170-3	PLATE	1	1	1	1				
6-1	1	172110-76170	PLATE	1	1	1	1				R
7	1	(A=MZZZZZ) 172141-76181	CONNECTOR ASSY, 02FF	1	1	1	1				
8	2	(B=MZZZZZ) 41851-000110	O-RING	1	1	1	1				
9	1	(C=MZZZZZ) 172137-76580	COLLAR	1	1	1	1				
10	1	(D=MZZZZZ) 172958-78200	HOSE	1	1	1	1				
11	1	172958-78210	HOSE	1	1	1	1				
12	1	172A46-78900	HOSE	1	1	1	1				
13	1	172A46-78910	HOSE	1	1	1	1				
14	1	172A44-78960	HOSE	1	1	1	1				
15	1	172A44-78970	HOSE	1	1	1	1				
16	1	172A84-78980	HOSE	2	2	2	2				
17	1	172122-79930	CLAMP, HOSE	4	4	4	4				
18	1	172958-81903-2	COVER, ARM	1	1	1	1				
18-1	1	172958-81904	COVER, ARM	1	1	1	1				N
18-2	1	(A=M53392) 172958-81904-Y	COVER, ARM	1	1	1	1				S
19	1	(B=M53392) 24315-000110	O-RING, 1BP11.0	1	1	1	1				
19-1	1	(C=M53092) 41851-000110	O-RING	1	1	1	1				N
20	1	(D=M53092) 26013-080162	BOLT, M8X 16	2	2	2	2				
21	1	26013-080162	BOLT, M8X 16	1	1	1	1				
22	1	26013-080252	BOLT, M8X 25	1	1	1	1				



Fig.103. ACCUMULATOR

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

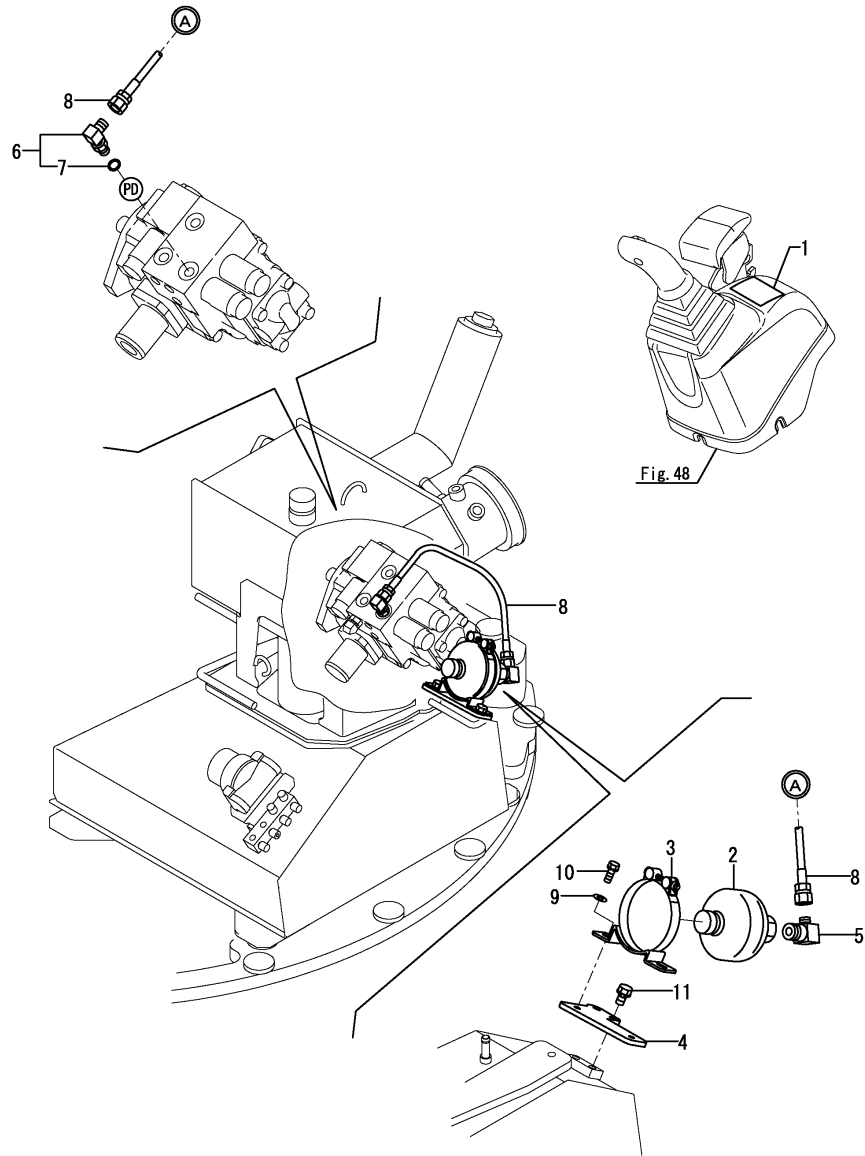


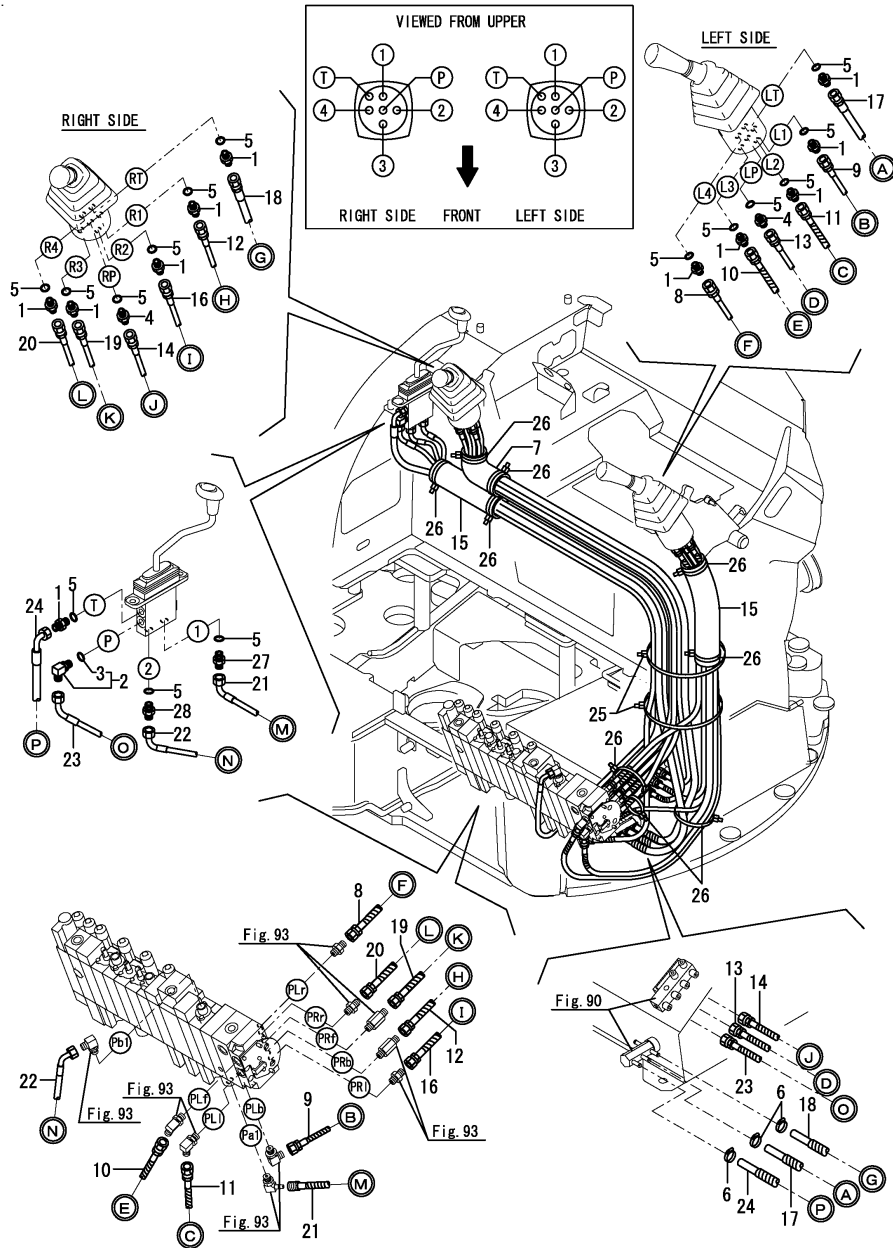
Fig. 48

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-03371	LABEL,PTO EX	1	1	1	1				
2	1	172478-73600	ACCUMULATOR	1	1	1	1				
3	1	172478-73630	CLAMP	1	1	1	1				
4	1	172A46-75440	BRACKET	1	1	1	1				
5	1	172478-76200	CONNECTOR	1	1	1	1				
6	1	172141-76920	CONNECTOR ASSY	1	1	1	1				
7	2	24315-000140	O-RING, 1BP14.0	1	1	1	1				
8	1	172480-78940	HOSE	1	1	1	1				
9	1	22137-080000	WASHER, 8	2	2	2	2				
10	1	26013-080162	BOLT, M8X 16	2	2	2	2				
11	1	26013-100162	BOLT, M10X 16	2	2	2	2				

Fig.104. CONTROL PIPING

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	11	11	11	11				
2	1	172958-76130	ELBOW	1	1	1	1				
3	2	24315-000110	O-RING, 1BP11.0	1	1	1	1				
4	1	172455-76220	CONNECTOR	2	2	2	2				
5	1	24315-000110	O-RING, 1BP11.0	15	15	15	15				
5-1	1	41851-000110	O-RING	15	15	15	15				N
				(A=M53092)		(B=M53092)		(C=M53092)		(D=M53092)	
6	1	23000-013000	CLAMP, 13	3	3	3	3				
7	1	172458-63641	SPONGE, HOSE	1	1	1	1				
8	1	172A47-78503	HOSE	1	1	1	1				
9	1	172A47-78513	HOSE	1	1	1	1				
10	1	172A47-78522	HOSE	1	1	1	1				
11	1	172A47-78532	HOSE	1	1	1	1				
12	1	172A47-78542	HOSE	1	1	1	1				
13	1	172A47-78553	HOSE	1	1	1	1				
14	1	172A47-78561	HOSE	1	1	1	1				
15	1	172458-78571	SPONGE, HOSE	2	2	2	2				
16	1	172A47-78632	HOSE	1	1	1	1				
17	1	172A47-78642	HOSE	1	1	1	1				
18	1	172A47-78652	HOSE	1	1	1	1				
19	1	172A47-78882	HOSE	1	1	1	1				
20	1	172A47-78892	HOSE	1	1	1	1				
21	1	172A47-78921	HOSE	1	1	1	1				
22	1	172A47-78931	HOSE	1	1	1	1				
23	1	172A47-78942	HOSE	1	1	1	1				
24	1	172A47-78952	HOSE	1	1	1	1				
25	1	172122-79890	CLAMP, HOSE	2	2	2	2				
26	1	172122-79930	CLAMP, HOSE	13	13	13	13				
27	1	172164-76330	JOINT, PF1/4-0.7	1	1	1	1				
28	1	172A47-76171	CONNECTOR, G1/4X0.6	1	1	1	1				

Remarks

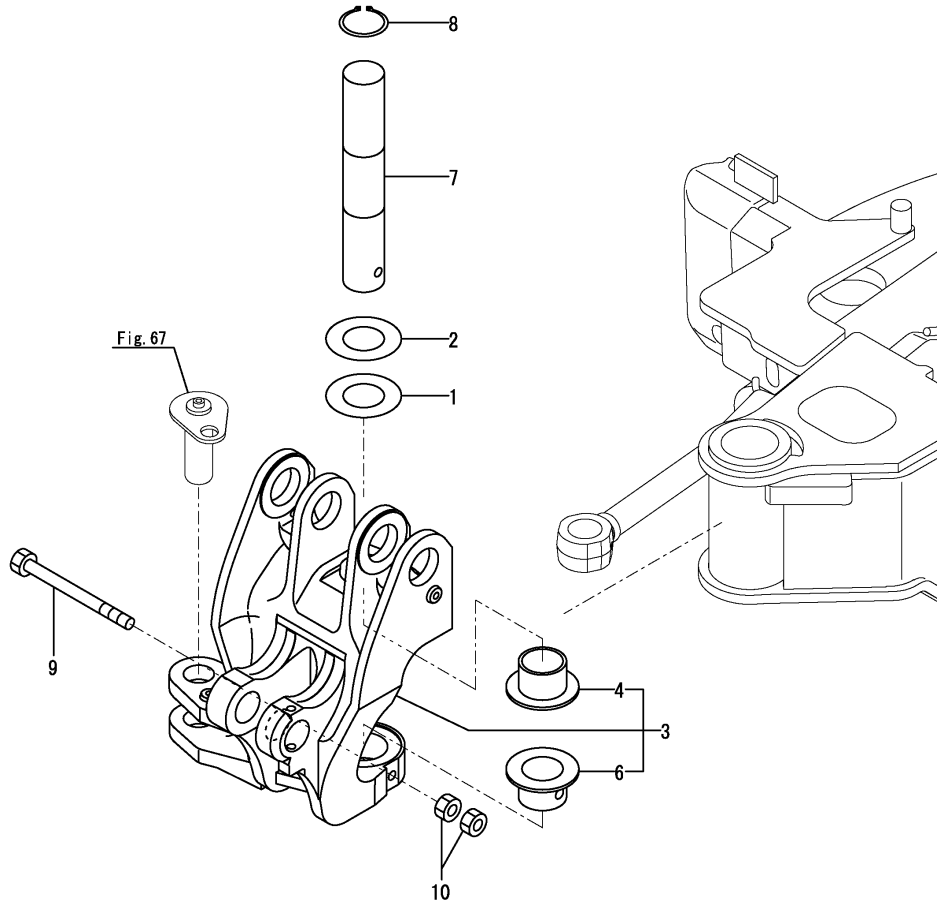
\* Fitting(control valve) is shown in Fig.93.

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

Fig.105. BOOM BASKET

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

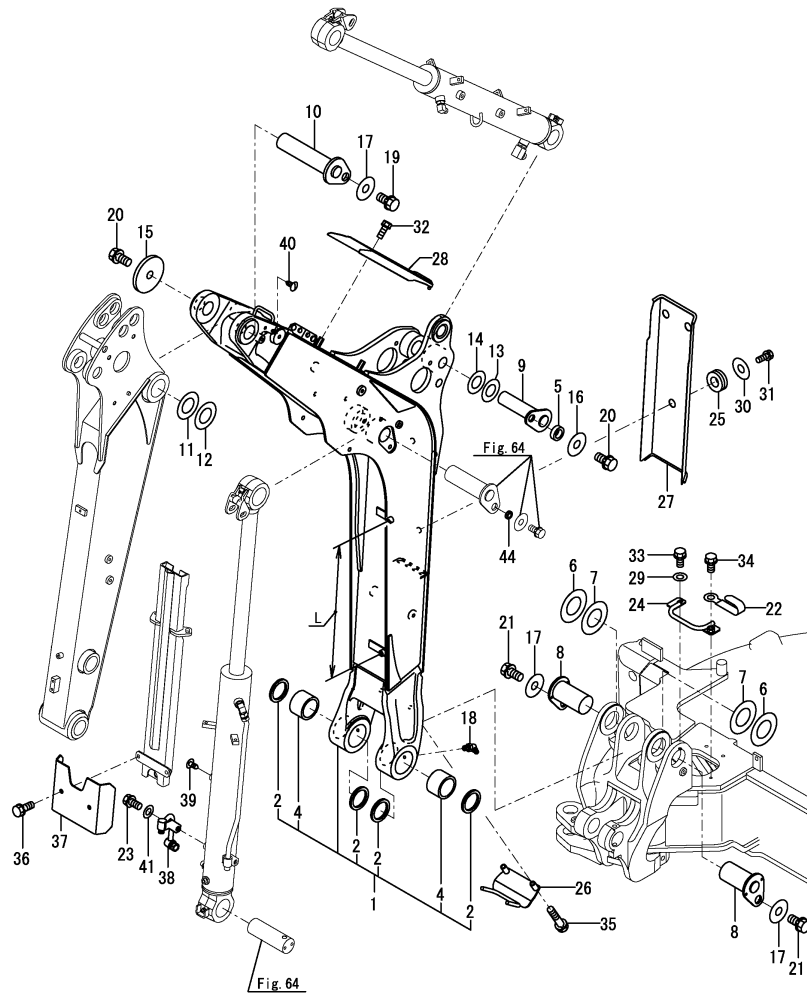


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172175-81700	SHIM	1	1	1	1				
2	1	172175-81710	SHIM	1	1	1	1				
3	1	172458-82300-2	BRACKET, BOOM	1	1	1	1				
3-1	1	172458-82300-Y	BRACKET, BOOM	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
4	2	172142-82310	BUSH 60X50	1	1	1	1				
6	2	172458-82320	BUSH 60X50	1	1	1	1				
7	1	172458-82330	PIN 60X334.5	1	1	1	1				
8	1	22242-000600	RING, 60	1	1	1	1				
9	1	26206-141502	BOLT, M14X150 PLATED	1	1	1	1				
10	1	26716-140002	NUT, M14	2	2	2	2				

Fig.106. BOOM

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A84-81100	BOOM ASSY	1	1	1	1				1
1-1	1	172A84-81101	BOOM ASSY,EX (2J)	1	1	1	1				S 1
		(A=M/#53131) (B=M/#53137) (C=M/#53136) (D=M/#53092)									
1-2	1	172A84-81101-Y	BOOM ASSY,EX	1	1	1	1				S 1
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
2	2	172020-10620	SEAL, DUST	4	4	4	4				
4	2	172458-81400	BUSH	2	2	2	2				
5	1	172164-81670	SPACER	1	1	1	1				
6	1	172175-81700	SHIM	2	2	2	2				
7	1	172175-81710	SHIM	2	2	2	2				
8	1	172458-81800	PIN ASSY	2	2	2	2				
9	1	172A44-81910	PIN ASSY(40X168)	1	1	1	1				
10	1	172A46-81930	PIN ASSY	1	1	1	1				
11	1	172165-82520	SHIM	1	1	1	1				
12	1	172165-82530	SHIM	1	1	1	1				
13	1	172165-82580	SHIM	1	1	1	1				
14	1	172165-82590	SHIM	1	1	1	1				
15	1	172146-82910	SPACER	1	1	1	1				
16	1	22157-120000	WASHER, 12	1	1	1	1				
17	1	22157-120000	WASHER, 12	3	3	3	3				
18	1	24761-050000	NIPPLE, GREASE C	2	2	2	2				
19	1	26013-120202	BOLT, M12X 20	1	1	1	1				
20	1	26013-120252	BOLT, M12X 25	2	2	2	2				
21	1	26013-120302	BOLT, M12X 30	2	2	2	2				
22	1	172126-16540	CLAMP	1	1	1	1				
23	1	26013-100202	BOLT, M10X 20	1	1	1	1				
24	1	172A46-61150-2	COVER, HOSE	1	1	1	1				
24-1	1	172A46-61150-Y	COVER, HOSE	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
25	1	172137-62970	GROMMET	3	3	3	3				
26	1	172A46-79300-2	GUIDE, HOSE	1	1	1	1				
26-1	1	172A46-79300-Y	GUIDE, HOSE	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
27	1	172A46-81800-2	COVER, BOOM	1	1	1	1				2
27-1	1	172A46-81800-Y	COVER, BOOM	1	1	1	1				S 2
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
28	1	172A44-81950-2	COVER ASSY, BOOM	1	1	1	1				
28-1	1	172A44-81950-Y	COVER ASSY, BOOM	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
29	1	22137-100000	WASHER, 10	1	1	1	1				
30	1	22157-080000	WASHER, 8	3	3	3	3				
31	1	26013-080162	BOLT, M8X 16	3	3	3	3				
32	1	26013-080162	BOLT, M8X 16	2	2	2	2				
33	1	26013-100202	BOLT, M10X 20	1	1	1	1				
34	1	26013-100302	BOLT, M10X 30	1	1	1	1				
35	1	26013-100452	BOLT, M10X 45	2	2	2	2				
36	1	26013-100202	BOLT, M10X 20	2	2	2	2				
37	1	172A46-72680-2	COVER, HOSE	1	1	1	1				
37-1	1	172A46-72680-N	COVER, HOSE	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
38	1	172A47-72770-2	PIPE ASSY, BOOM	1	1	1	1				

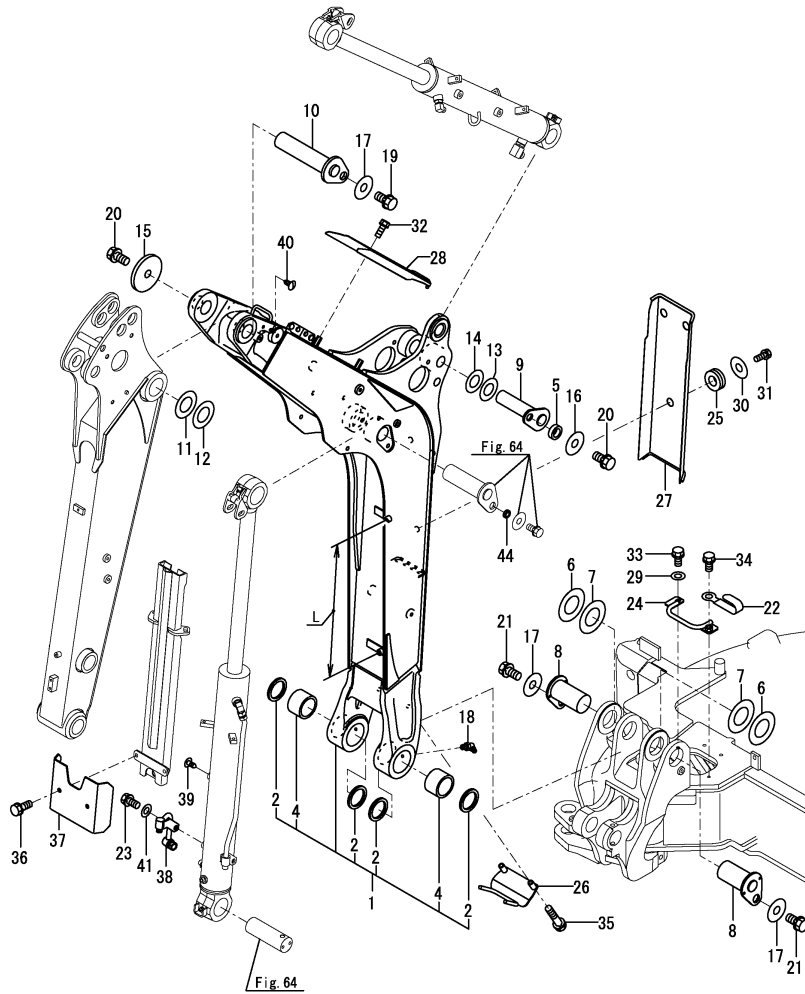
Remarks

- (1)Please use this part with following label at the same time.  
 Ref.No.42A,42B,42C.  
 L=Ref.No.1:480mm, No.1-1:380mm.
- (2)Please use this part with following label at the same time.  
 Ref.No.43A,43B,43C.
- (3)Label is not illustrated.

Fig.106. BOOM

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
38-1	1	172A47-72770-N (A=M54001)	PIPE ASSY, BOOM (B=M54001) (C=M54001) (D=M54001)	1	1	1	1				S
39	1	172183-81160	CLIP, TREE	1	1	1	1				
40	1	172183-81160	CLIP, TREE	2	2	2	2				
41	1	22137-100000	WASHER, 10	1	1	1	1				
42A	1	172437-03461	LABEL, BOOM	2	2	2	2				3
42B	1	172437-03511	LABEL, HOOK	1	1	1	1				3
42C	1	172531-03030	LABEL, YANMAR	2	2	2	2				3
42C-1	1	172A77-03030	LABEL, YANMAR	2	2	2	2				S 3
43A	1	172472-03271 (A=M54001)	LABEL, SANDUS (B=M54001) (C=M54001) (D=M54001)	1	1	1	1				3
43B	1	172472-03281	LABEL, WARNING HITCH	1	1	1	1				3
43C	1	172437-03432	LABEL, STEERING	1	1	1	1				3
44	1	172A85-81350	SPACER, BOOM	1	1	1	1				

Remarks

(1) Please use this part with following label at the same time.  
 Ref.No.42A,42B,42C.

L=Ref.No.1:480mm, No.1-1:380mm.

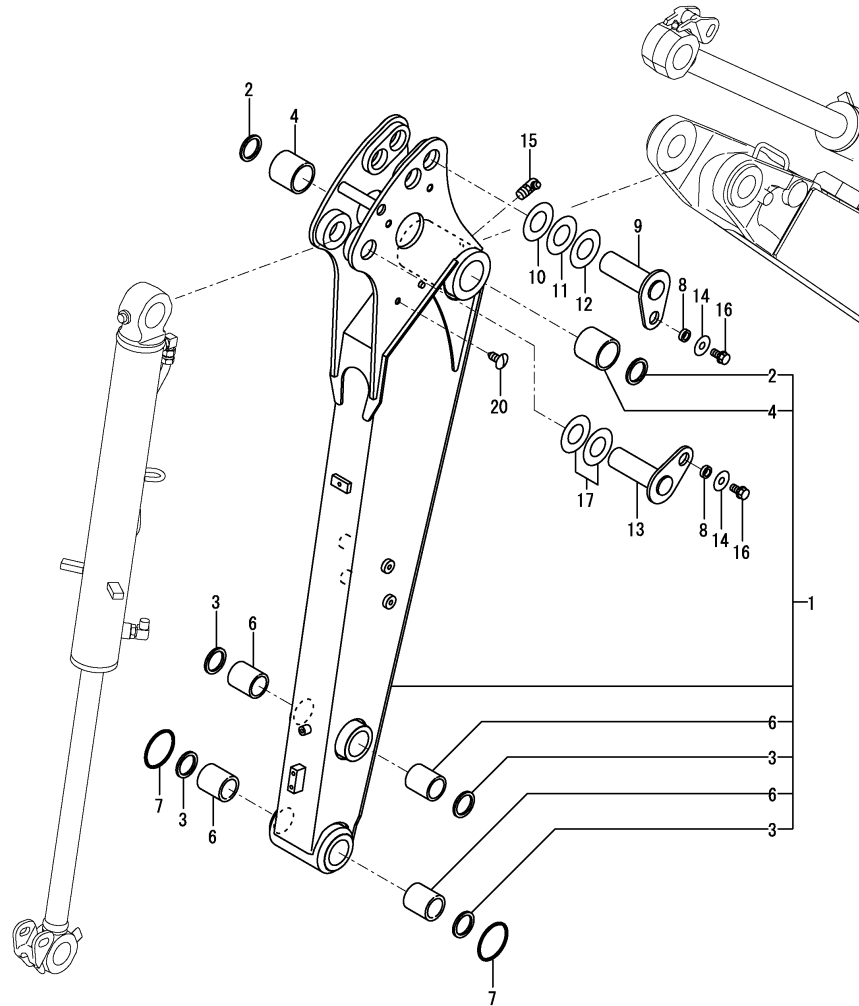
(2) Please use this part with following label at the same time.  
 Ref.No.43A,43B,43C.

(3) Label is not illustrated.

Fig.107. ARM

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-81501	ARM ASSY, 1150	1	1	1	1				1
1-1	1	172A44-81501-Y	ARM ASSY, 1150	1	1	1	1				S 1
		(A=M54001)	(B=M54001)	(C=M54001)	(D=M54001)						
2	2	172448-54120	SEAL, DUST	2	2	2	2				
3	2	172168-81270	SEAL, DUST	4	4	4	4				
4	2	172444-81310	BUSH, PIN	2	2	2	2				
6	2	172458-81630	BUSH	4	4	4	4				
7	1	172142-81620	O-RING	2	2	2	2				
8	1	172164-81670	SPACER	2	2	2	2				
9	1	172457-81880	PIN 40X116 ASSY	1	1	1	1				
10	1	172A25-81900	SHIM	1	1	1	1				
11	1	172165-82580	SHIM	1	1	1	1				
12	1	172165-82590	SHIM	1	1	1	1				
13	1	172458-83710	PIN ASSY	1	1	1	1				
14	1	22157-120000	WASHER, 12	2	2	2	2				
15	1	24761-040000	NIPPLE, GREASE B	1	1	1	1				
16	1	26013-120252	BOLT, M12X 25	2	2	2	2				
17	1	933171-29751	SHIM SET	1	1	1	1				
20	1	172183-81160	CLIP, TREE	1	1	1	1				
21A	1	172472-03261	LABEL, FINGER	1	1	1	1				2
21B	1	172472-03330	LABEL, LOCK PIN	1	1	1	1				2
21C	1	172472-03230	LABEL, OPERATION	1	1	1	1				2

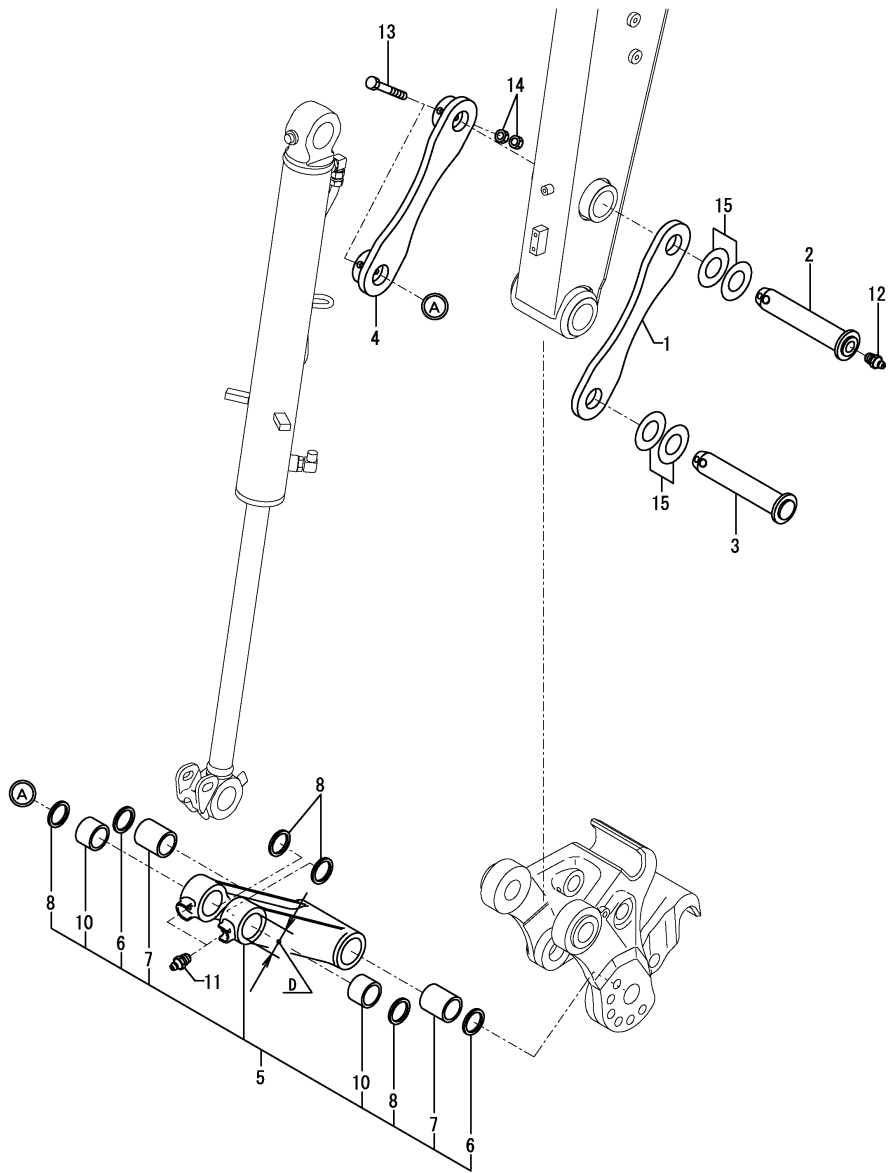
Remarks

- (1)Please use this part with following label at the same time.  
 Ref.No.21A,21B,21C.
- (2)Label is not illustrated.

Fig.108. BUCKET ARM & LINK

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



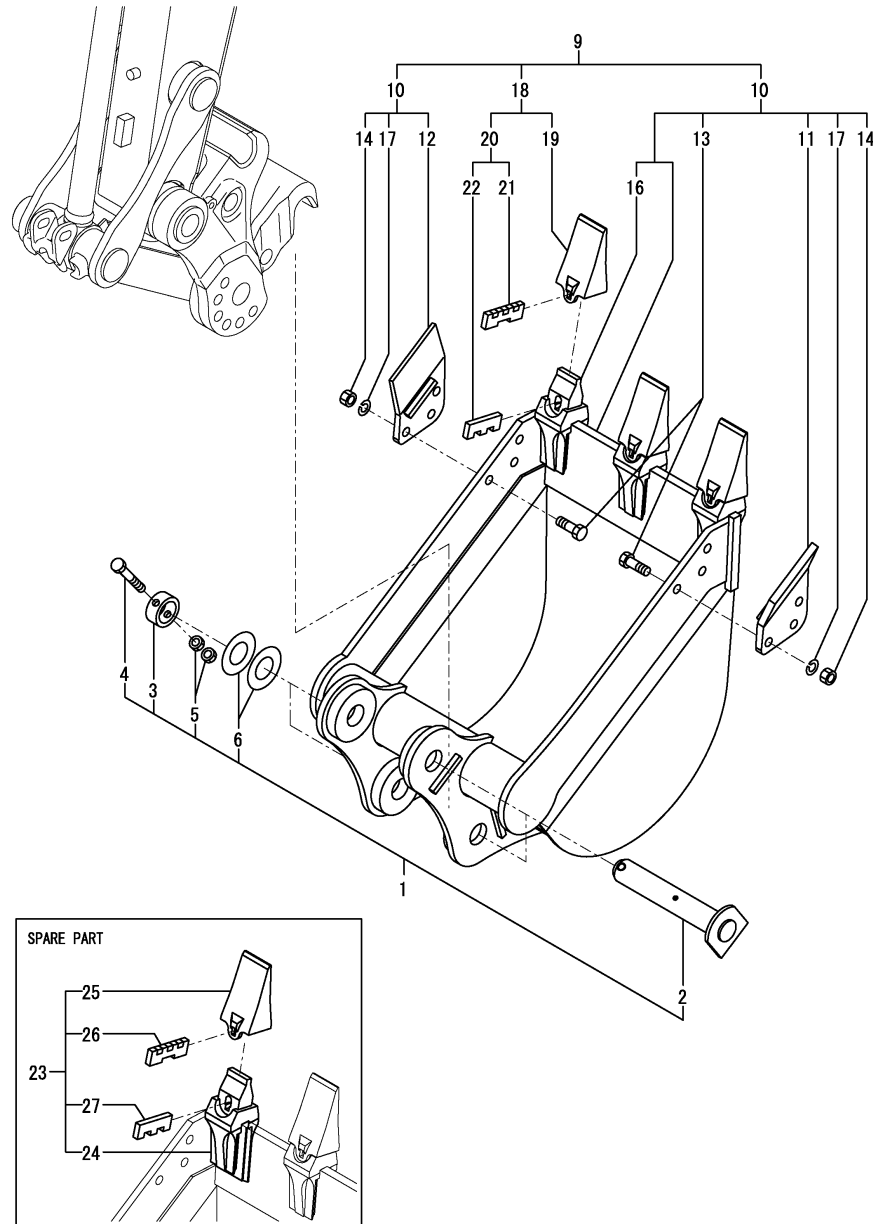
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81820-1	ARM, BUCKET	1	1	1	1				
1-1	1	172164-81820-Y	ARM, BUCKET	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
2	1	172458-81860	PIN ASSY	1	1	1	1				
3	1	172458-81890	PIN ASSY	1	1	1	1				
4	1	172458-82600-2	ARM, BUCKET	1	1	1	1				
4-1	1	172458-82600-Y	ARM, BUCKET	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
5	1	172458-82651-2	LINK, BUCKET	1	1	1	1				
5-1	1	172458-82651-Y	LINK, BUCKET	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
5-2	1	172B03-82601	LINK ASSY,BUCKET	1	1	1	1				R 1
		(A=M53830) (B=M53830) (C=M53830) (D=M53830)									
6	2	172168-81270	SEAL, DUST	2	2	2	2				
7	2	172458-81630	BUSH	2	2	2	2				
8	2	172122-82290	SEAL, DUST	4	4	4	4				
8-1	2	172168-81270	SEAL, DUST	4	4	4	4				S 1
		(A=M53830) (B=M53830) (C=M53830) (D=M53830)									
10	2	172168-84411	BUSH	2	2	2	2				
10-1	2	172B03-82621	BUSH, 38X50X33.5	2	2	2	2				S 1
		(A=M53830) (B=M53830) (C=M53830) (D=M53830)									
11	1	24761-020000	NIPPLE, GREASE PT1/8	2	2	2	2				
12	1	24761-020000	NIPPLE, GREASE PT1/8	1	1	1	1				
13	1	26116-100752	BOLT, M10X 75 PLATED	2	2	2	2				
14	1	26716-100002	NUT, M10	4	4	4	4				
15	1	933171-29751	SHIM SET	2	2	2	2				

Remarks  
 (1)D=Ref.No.5-1:48mm, No.5-2:50mm.

Fig.109. BUCKET

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-81590	PIN KIT, BUCKET		2	2	2				
2	2	172958-81600	PIN ASSY		2	2	2				
3	2	172164-81700	COLLAR		2	2	2				
4	2	26116-100652	BOLT, M10X 65 PLATED		2	2	2				
5	2	26716-100002	NUT, M10		4	4	4				
6	2	933171-29751	SHIM SET		2	2	2				
9	1	172458-82500-3	BUCKET ASSY, 490S				1	1			
9-1	1	172458-82500-N (C=M54001)	BUCKET ASSY, 490S (D=M54001)				1	1			S
10	2	172458-82580-3	BUCKET ASSY, 490S				1	1			
10-1	2	172458-82580-N (C=M54001)	BUCKET ASSY, 490S (D=M54001)				1	1			S
11	3	172458-82240-3	CUTTER, SIDE				1	1			
11-1	3	172458-82240-4 (C=M54001)	CUTTER, SIDE (D=M54001)				1	1			S
12	3	172458-82260-3	CUTTER, SIDE				1	1			
12-1	3	172458-82260-4 (C=M54001)	CUTTER, SIDE (D=M54001)				1	1			S
13	3	172458-82280	BOLT				6	6			
14	3	172458-82290	NUT				6	6			
16	4	172458-82231	ADAPTER				3	3			
17	3	22217-140000	WASHER, SPRING 14				6	6			
18	2	172448-82950	TOOTH KIT, POINT				3	3			
19	3	172448-82570	TOOTH, POINT				3	3			
20	3	172448-82960	PIN ASSY, LOCK				3	3			
21	4	172448-82580	PIN, LOCK				3	3			
22	4	172448-82590	RUBBER, PIN				3	3			
23	1	772458-82231	TOOTH ASSY				3	3			1
24	2	172458-82231	ADAPTER				3	3			
25	2	172448-82570	TOOTH, POINT				3	3			
26	2	172448-82580	PIN, LOCK				3	3			
27	2	172448-82590	RUBBER, PIN				3	3			

Remarks

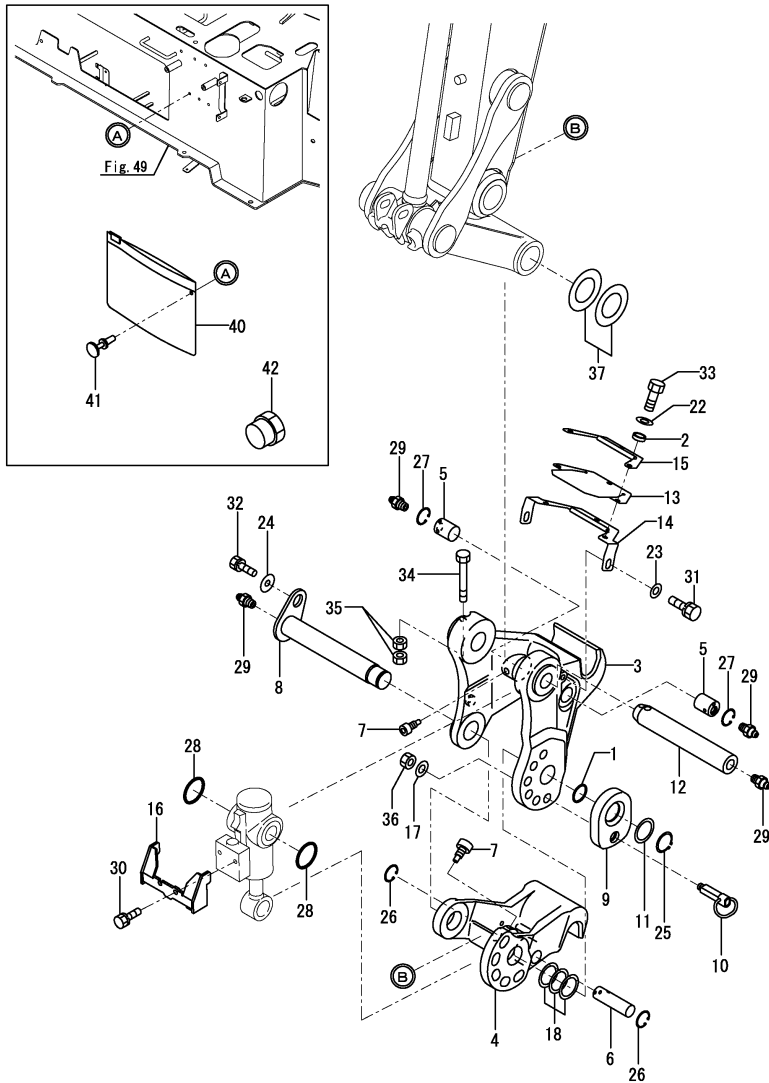
(1) Spare parts.



Fig.110. QUICK COUPLER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172124-46200	O-RING	1	1	1	1				
2	1	172958-17121	COLLAR, 9X4	3	3	3	3				
3	1	172958-83102-2	BRACKET	1	1	1	1				
3-1	1	172958-83102-Y	BRACKET	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
4	1	172958-83111-2	BRACKET	1	1	1	1				
4-1	1	172958-83111-Y	BRACKET	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
5	1	172958-83120	PIN	2	2	2	2				
6	1	172958-83130	PIN	1	1	1	1				
6-1	1	172958-83131	PIN	1	1	1	1				N
		(A=M53094) (B=M53094) (C=M53094) (D=M53094)									
7	1	172958-83140	BOLT	3	3	3	3				
8	1	172958-83150	PIN ASSY	1	1	1	1				
9	1	172958-83171-2	PLATE, LOCK	1	1	1	1				1
9-1	1	172958-83171-Y	PLATE, LOCK	1	1	1	1				S 1
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
10	1	172958-83183	PIN ASSY, LOCK	1	1	1	1				2
11	1	172960-83210	COLLAR	1	1	1	1				
12	1	172958-83220	PIN	1	1	1	1				
13	1	172958-83252	PLATE, RUBBER	1	1	1	1				
14	1	172958-83271-2	GUARD ASSY	1	1	1	1				
14-1	1	172958-83271-Y	GUARD ASSY	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
15	1	172958-83281-2	GUARD ASSY	1	1	1	1				
15-1	1	172958-83281-Y	GUARD ASSY	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
16	1	172958-83292-2	COVER, HITCH	1	1	1	1				
16-1	1	172958-83292-Y	COVER, HITCH	1	1	1	1				S
		(A=M54001) (B=M54001) (C=M54001) (D=M54001)									
17	1	172958-83330	WASHER	1	1	1	1				
18	1	172141-84601	SHIM	1	1	1	1				
22	1	22137-080000	WASHER, 8	3	3	3	3				
23	1	22137-100000	WASHER, 10	2	2	2	2				
24	1	22157-120000	WASHER, 12	1	1	1	1				
25	1	22242-000350	RING, 35	1	1	1	1				
26	1	22252-000250	RING, 25	2	2	2	2				
27	1	22252-000300	RING, 30	2	2	2	2				
28	1	24311-000480	O-RING, 1AP48.0	2	2	2	2				
29	1	24761-020000	NIPPLE, GREASE PT1/8	4	4	4	4				
30	1	26013-080162	BOLT, M8X 16	2	2	2	2				
31	1	26013-100202	BOLT, M10X 20	2	2	2	2				
32	1	26013-120302	BOLT, M12X 30	1	1	1	1				
33	1	26116-080202	BOLT, M8X 20 PLATED	3	3	3	3				
34	1	26116-100802	BOLT, M10X 80 PLATED	1	1	1	1				
35	1	26716-100002	NUT, M10	2	2	2	2				
36	1	26756-060002	NUT, LOCK M6	1	1	1	1				
37	1	933171-29751	SHIM SET	2	2	2	2				
40	1	172958-05100	CASE, PLUG	1	1	1	1				Z
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
41	1	172958-05110	RIVET	1	1	1	1				Z

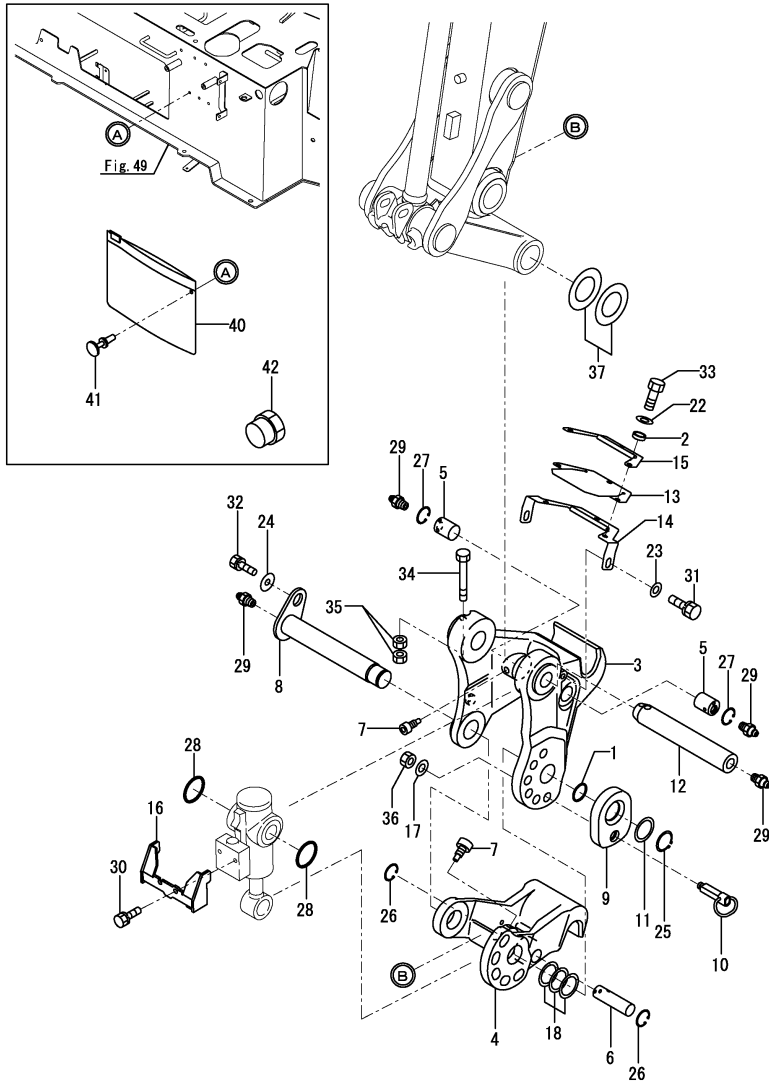
Remarks

- (1)Please use this part with following label at the same time. Ref.No.43A.
- (2)Please use this part with following label at the same time. Ref.No.44A.
- (3)Label is not illustrated.

Fig.110. QUICK COUPLER

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



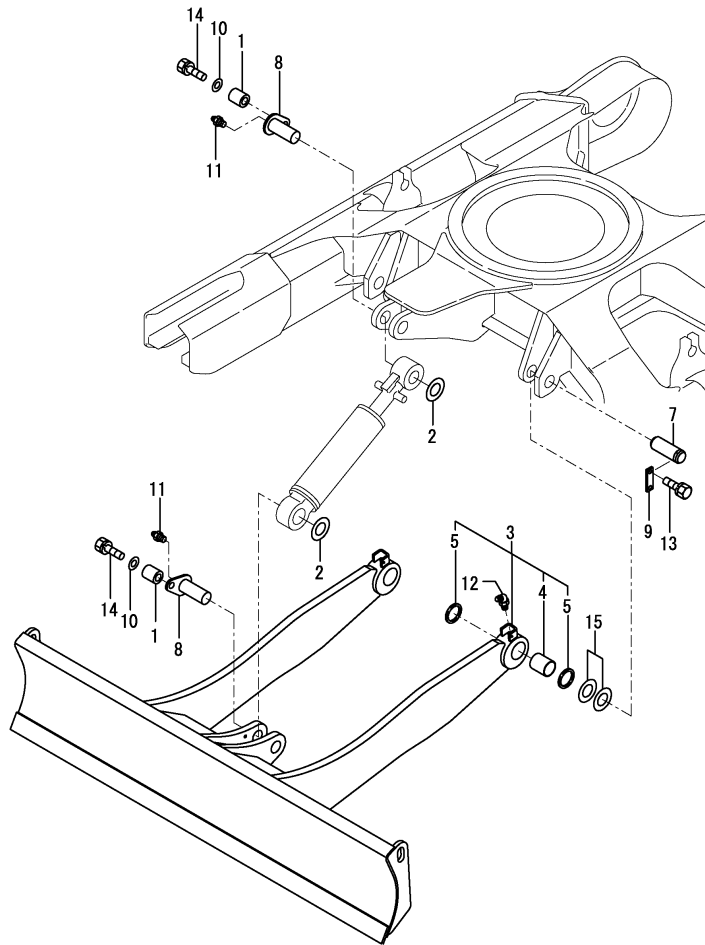
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
42	1	1E3030-78370	CAP, SCREW	4	4	4	4				Z
		(A=M53001) (B=M53001) (C=M53001) (D=M53001)									
43A	1	172458-03240	LABEL, LOCK	1	1	1	1				3
44A	1	172958-03160	LABEL	1	1	1	1				3

Remarks  
 (1) Please use this part with following label at the same time.  
 Ref.No.43A.  
 (2) Please use this part with following label at the same time.  
 Ref.No.44A.  
 (3) Label is not illustrated.

Fig.111. BLADE

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81670	SPACER	2	2	2	2				
2	1	172112-87860	SHIM	2	2	2	2				
3	1	172A24-94101-2	BLADE ASSY	1	1	1	1				1
4	2	172168-72240	BUSH	2	2	2	2				
5	2	172168-81270	SEAL, DUST	4	4	4	4				
7	1	172422-94210	PIN	2	2	2	2				
8	1	172142-94241-W	PIN	2	2	2	2				
9	1	172124-94310-5	PLATE, LOCK	2	2	2	2				
10	1	22157-120000	WASHER, 12	2	2	2	2				
11	1	24761-020000	NIPPLE, GREASE PT1/8	2	2	2	2				
12	1	24761-040000	NIPPLE, GREASE B	2	2	2	2				
13	1	26013-100252	BOLT, M10X 25	4	4	4	4				
14	1	26013-120302	BOLT, M12X 30	2	2	2	2				
15	1	933171-29751	SHIM SET	2	2	2	2				
18A	1	172437-03511	LABEL, HOOK	2	2	2	2				2

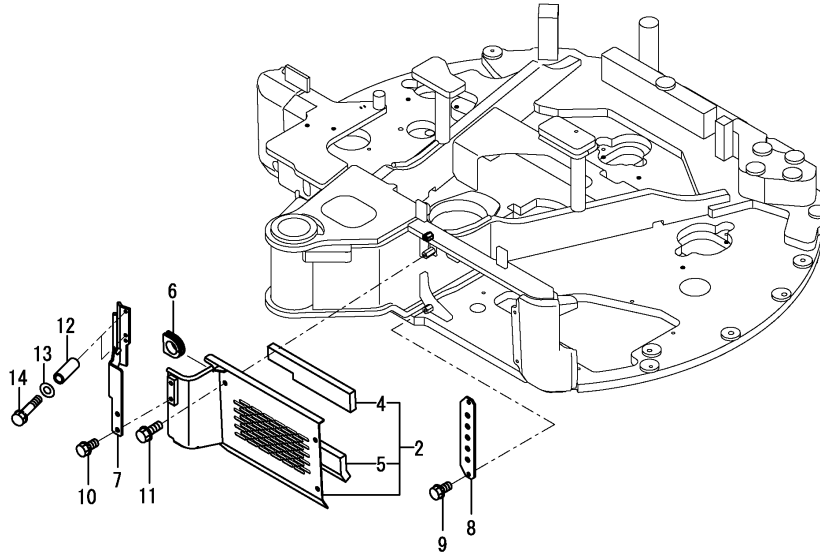
Remarks

- (1)Please use this part with following label at the same time.  
Ref.No.18A.
- (2)Label is not illustrated.

Fig.112. HOLDING VALVE KIT(1)(OPTIONAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



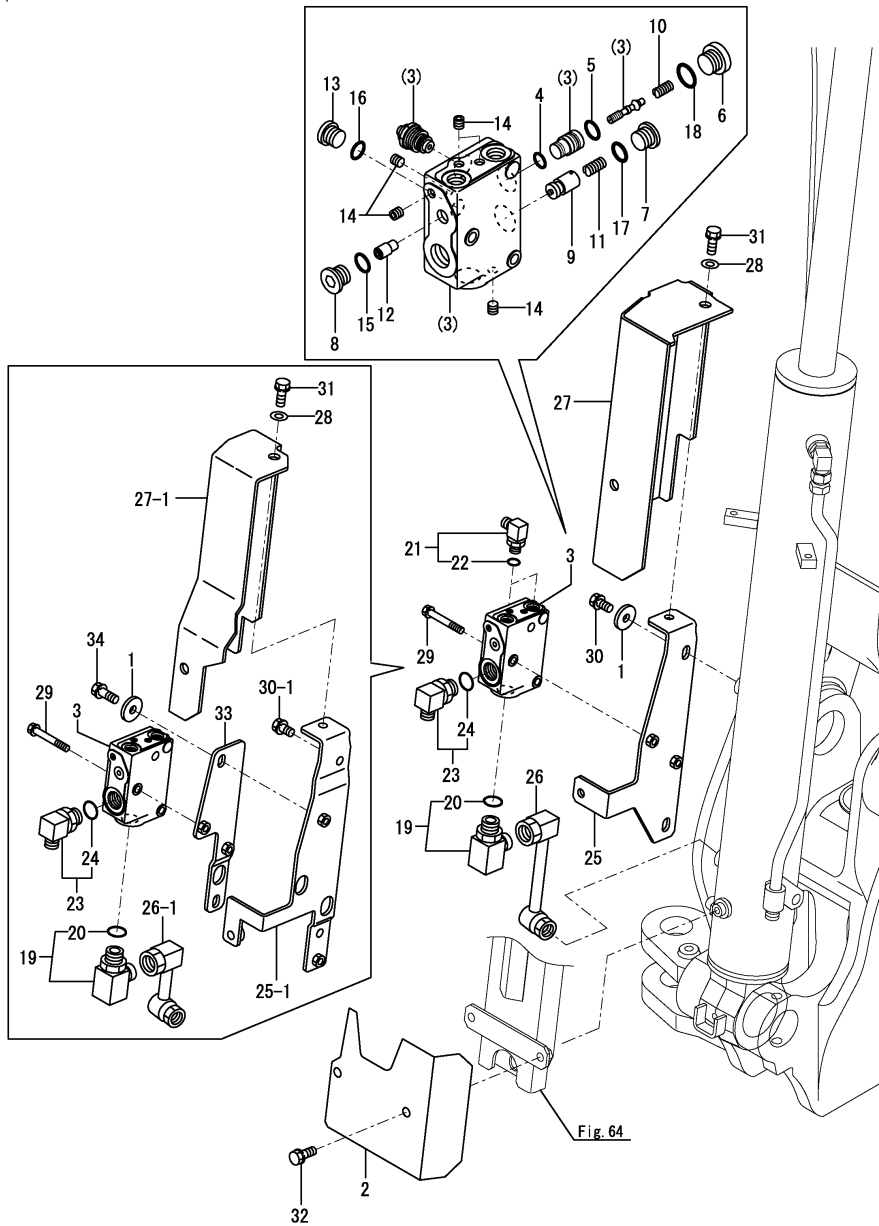
HOLDING VALVE KIT  
 Fig. 112 Ref. No. 1  
 INC. Fig. 112 Ref. No. 2~14.  
 Fig. 113~116.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A44-08520 (B=M/#53168)	VALVE KIT, HOLDING		1						W
1-1	1	172A44-08521 (B=M53372)	HOLDING VALVE KIT		1						N
1-2	1	172A44-08521-Y (B=M54001)	HOLDING VALVE KIT		1						S
2	2	172A77-61180	COVER		1						
2-1	2	172A77-61270 (B=M53516)	COVER ASSY		1						N
4	3	172A77-61190	SPONGE		1						
4-1	3	172A77-61280 (B=M53516)	SPONGE		1						N
5	3	172A77-61200	SPONGE		1						
5-1	3	172A77-61290 (B=M53516)	SPONGE		1						N
6	2	172165-62800	GROMMET		1						
7	2	172A46-76730	GUIDE ASSY, HOSE		1						
8	2	172A46-79210	PLATE ASSY, HOSE		1						
9	2	26013-100202	BOLT, M10X 20		2						
10	2	26013-100202	BOLT, M10X 20		2						
11	2	26014-100162	BOLT, M10X 16		3						
12	2	172527-13320	COLLAR		2						
13	2	22137-080000	WASHER, 8		2						
14	2	26013-080452	BOLT, M8X 45		2						

Fig.113. HOLDING VALVE KIT(2)(OPTIONAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-61261	WASHER		2						
2	2	172A46-72930-1	COVER, HOSE		1						
2-1	2	172A46-72930-Y	COVER, HOSE		1						S
		(B=M54001)									
3	2	172A25-74401	HOLD VALVE,BOOM&ARM		1						
4	3	172A25-74420	O-RING		1						
5	3	172A25-74430	O-RING		1						
6	3	172A25-74440	PLUG		1						
7	3	172A25-74450	PLUG		1						
8	3	172A25-74460	PLUG		1						
9	3	172A25-74470	POPPET		1						
10	3	172A25-74480	SPRING		1						
11	3	172A25-74490	SPRING		1						
12	3	172A25-74501	PISTON		1						
13	3	172455-77140	PLUG		1						
14	3	172455-77150	PLUG		5						
15	3	24315-000100	O-RING, 1BP10.0		1						
16	3	24315-000110	O-RING, 1BP11.0		1						
17	3	24315-000140	O-RING, 1BP14.0		1						
18	3	24315-000160	O-RING, 1BP16.0		1						
19	2	172141-76900	CONNECTOR ASSY		1						
20	3	24315-000180	O-RING, 1BP18.0		1						
21	2	172141-76181	CONNECTOR ASSY, 02FF		2						
22	3	41851-000110	O-RING		2						
23	2	172157-76300	ELBOW ASSY		1						
24	3	24315-000180	O-RING, 1BP18.0		1						
25	2	172A46-77100	BRACKET ASSY,BOOM K		1						
25-1	2	172A46-77101	BRACKET ASSY,BOOM K		1						S
		(B=M53372)									
26	2	172A46-77120-1	TUBE ASSY, BOOM		1						
26-1	2	172A46-77121-1	TUBE ASSY, BOOM		1						S
		(B=M53372)									
26-2	2	172A46-77121-Y	TUBE ASSY, BOOM		1						S
		(B=M54001)									
27	2	172A46-77150-1	COVER, BOOM		1						
27-1	2	172A46-77151-1	COVER, BOOM		1						F 1
		(B=M53372)									
27-2	2	172A46-77151-Y	COVER, BOOM		1						S
		(B=M54001)									
28	2	22137-100000	WASHER, 10		2						
29	2	26013-080552	BOLT, M8X 55		2						
30	2	26013-100202	BOLT, M10X 20		2						
30-1	2	26013-100162	BOLT, M10X 16		2						S
		(B=M53372)									
31	2	26013-100252	BOLT, M10X 25		2						
32	2	26013-100202	BOLT, M10X 20		2						
33	2	172A46-77170	BKTASSY VALVE,BOOM K		1						W
		(B=M53372)									
34	2	26013-100252	BOLT, M10X 25		2						W
		(B=M53372)									

Remarks

\* Holding valve kit is shown in Fig.112.

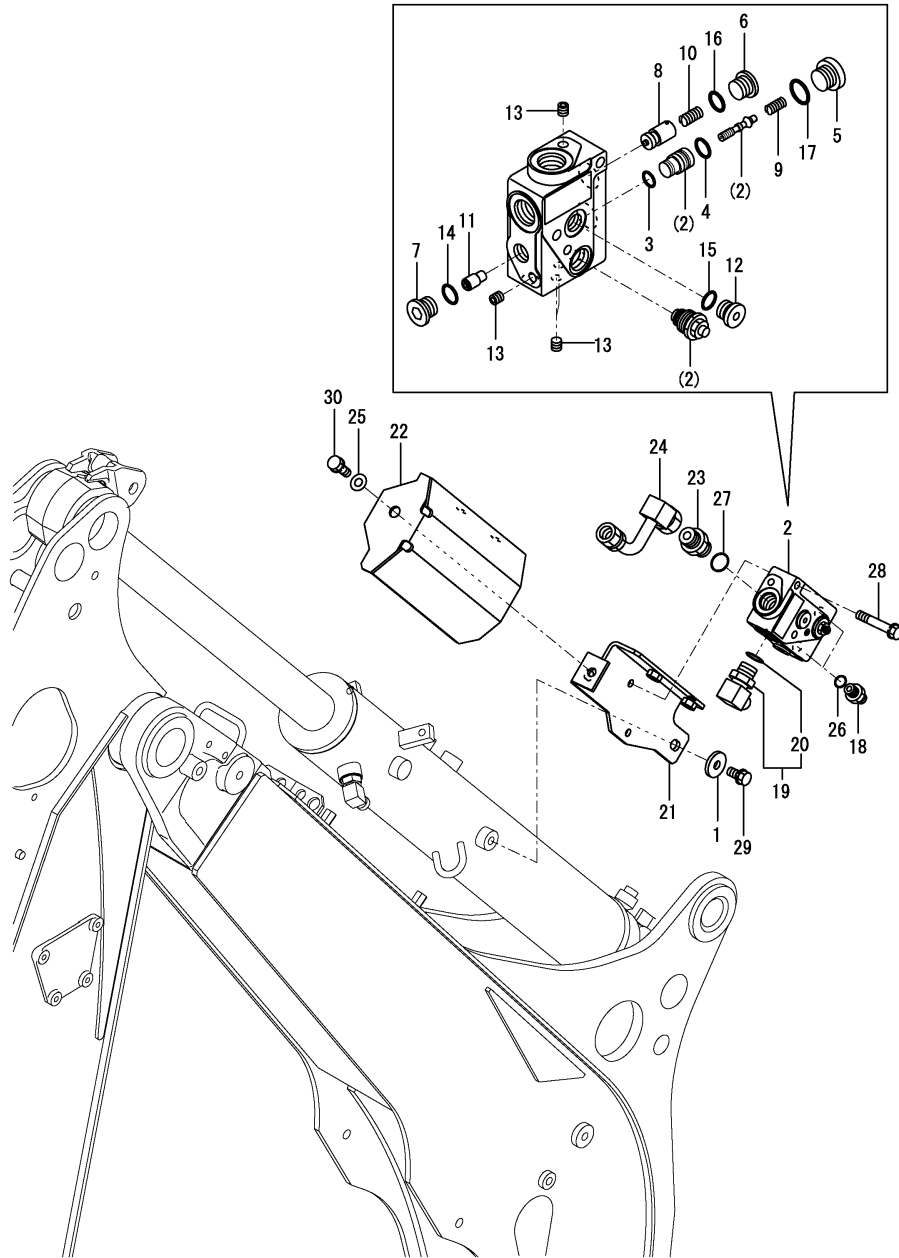
(1)Interchangeable by simultaneous replacement with Ref.No.25-1,26-1,30-1,33,34.

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

Fig.114. HOLDING VALVE KIT(3)(OPTIONAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-61261	WASHER		2						
2	2	172A25-74401	HOLD VALVE,BOOM&ARM		1						
3	3	172A25-74420	O-RING		1						
4	3	172A25-74430	O-RING		1						
5	3	172A25-74440	PLUG		1						
6	3	172A25-74450	PLUG		1						
7	3	172A25-74460	PLUG		1						
8	3	172A25-74470	POPPET		1						
9	3	172A25-74480	SPRING		1						
10	3	172A25-74490	SPRING		1						
11	3	172A25-74501	PISTON		1						
12	3	172455-77140	PLUG		1						
13	3	172455-77150	PLUG		5						
14	3	24315-000100	O-RING, 1BP10.0		1						
15	3	24315-000110	O-RING, 1BP11.0		1						
16	3	24315-000140	O-RING, 1BP14.0		1						
17	3	24315-000160	O-RING, 1BP16.0		1						
18	2	172123-76121	ADAPTER		2						
19	2	172157-76300	ELBOW ASSY		1						
20	3	24315-000180	O-RING, 1BP18.0		1						
21	2	172A46-77200	BRACKET ASSY,ARM K		1						
22	2	172A46-77230-1	COVER, ARM		1						
22-1	2	172A46-77230-Y (B=M54001)	COVER, ARM		1						S
23	2	172112-77361	CONNECTOR		1						
24	2	172A25-77370-2	TUBE, ARM		1						
24-1	2	172A25-77370-Y (B=M54001)	TUBE, ARM		1						S
25	2	22137-100000	WASHER, 10		3						
26	2	41851-000110	O-RING		2						
27	2	41851-000180	O-RING		1						
28	2	26013-080552	BOLT, M8X 55		2						
29	2	26013-100202	BOLT, M10X 20		2						
30	2	26013-100252	BOLT, M10X 25		3						

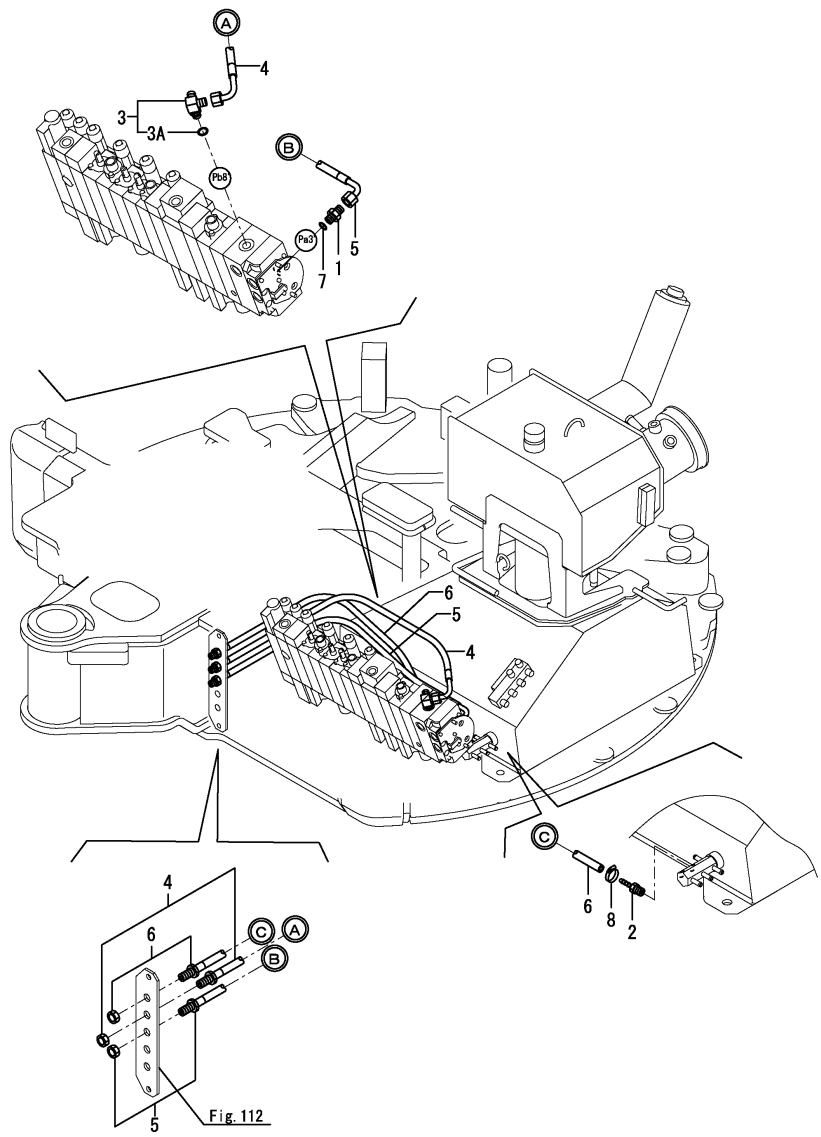
Remarks

\* Holding valve kit is shown in Fig.112.

Fig.115. HOLDING VALVE KIT(4)(OPTIONAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



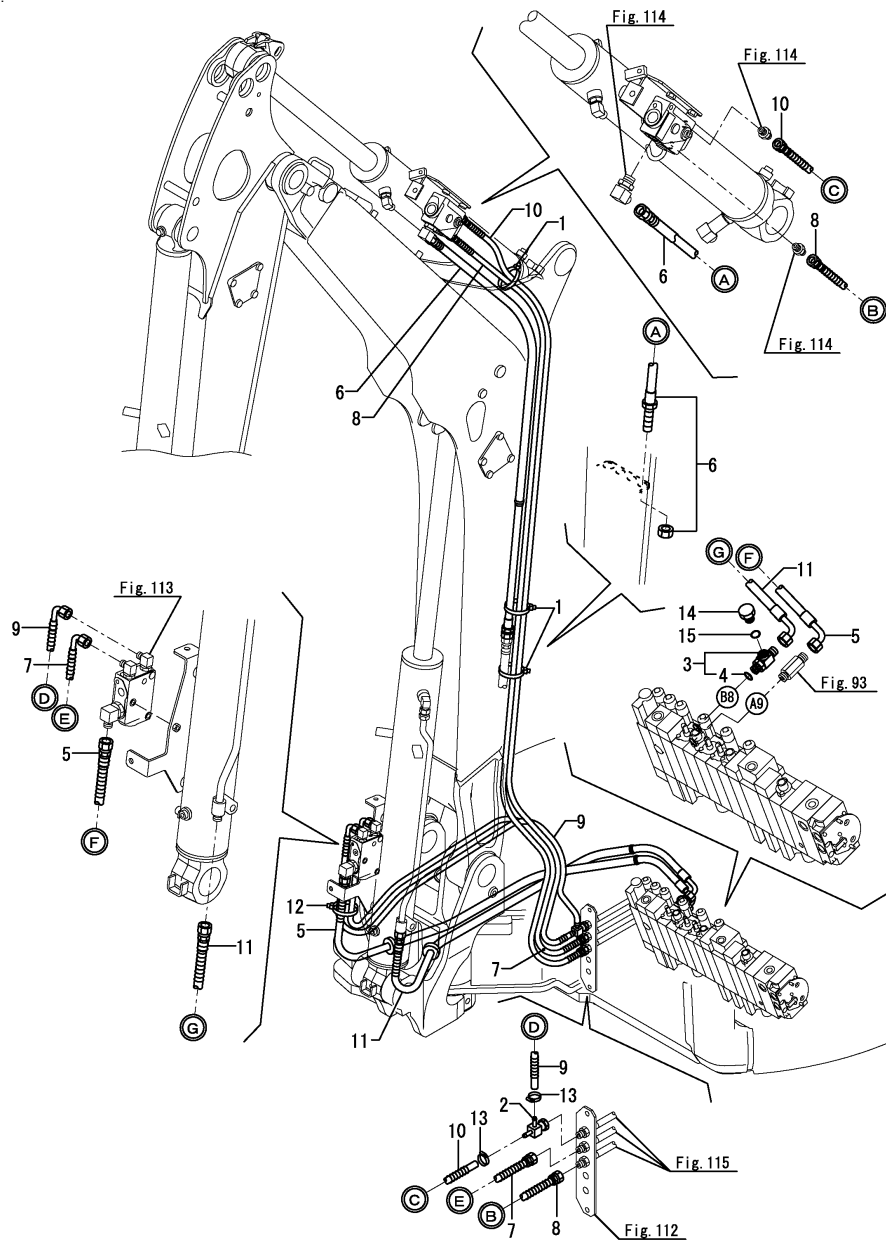
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	2	172123-76121	ADAPTER		1							
2	2	172141-76220	NIPPLE		1							
3	2	172491-76330	ELBOW, ADJUSTABLE		1							
3A	3	24315-000110 (B=M53001)	O-RING, 1BP11.0		1							W
4	2	172A46-78700	HOSE F204CX095S		1							
5	2	172A46-78710	HOSE F204CX078S		1							
6	2	172A46-78720	HOSE G804XY078S		1							
7	2	41851-000110	O-RING		1							
8	2	23000-013000	CLAMP, 13		1							

Remarks  
 \* Holding valve kit is shown in Fig.112.

Fig.116. HOLDING VALVE KIT(5)(OPTIONAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	194202-56460	BAND, 200		3						
2	2	172A47-76320	NIPPLE		1						
3	2	172460-76700	CONNECTOR, 2X3/8X1/4		1						Z
		(B=M53001)									
4	3	24315-000140	O-RING, 1BP14.0		1						
5	2	172A46-78440	HOSE		1						
6	2	172A44-78450	HOSE H206BX121K		1						
7	2	172A46-78460	HOSE		1						
8	2	172A44-78470	HOSE H604BB246R		1						
9	2	172A46-78480	HOSE		1						
10	2	172A44-78490	HOSE G804BY245R		1						
11	2	172A46-78860	HOSE		1						
12	2	172122-79930	CLAMP, HOSE		1						
13	2	23000-013000	CLAMP, 13		2						
14	2	172165-76590	PLUG		1						Z
		(B=M53001)									
15	2	41851-000110	O-RING		1						Z
		(B=M53001)									

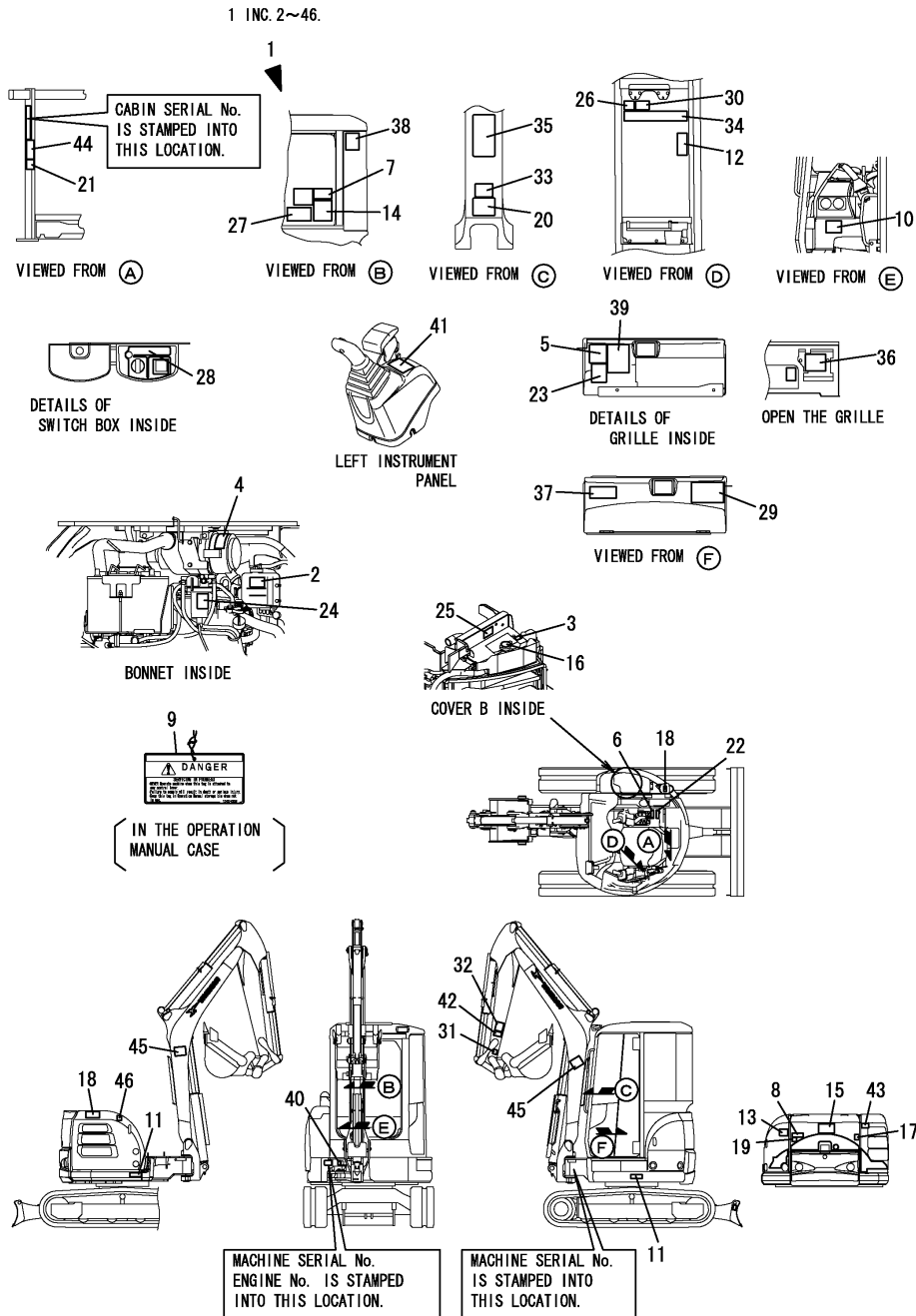
Remarks  
 \* Holding valve kit is shown in Fig.112.



Fig.117. LABEL(FRANCH FOR CANADA)(OPTIONAL)

(A)=VIO27-5B(US)  
(B)=VIO27-5B(AS)  
(C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A84-03020 (A=M53001)	CA LABELKIT,VIO27-5B	1							W
2	2	172A37-03150	LABEL,SUB-TANK CA	1							
3	2	172A37-03160	LABEL,ANTI-FREEZE CA	1							
4	2	172A37-03180	LABEL J, AIR CLEANER	1							
5	2	172A37-03220	LABEL,ADJUST CRAWLER	1							
6	2	172A37-03231	LABEL,MANUAL CA.	1							
7	2	172A37-03241	LABEL,SLOPE CA.	1							
8	2	172A37-03250	LABEL,RESERVOIR CA	1							
9	2	172469-03261	TAG ASSY, SERVICING	1							
10	2	172A37-03271	LABEL,TRANSPORT CA.	1							
11	2	172A37-03280	LABEL,GREASE CYL CA	2							
12	2	172478-03290	LABEL,F/W LOWER	1							
13	2	172A37-03290	LABEL,BATTERY CA	1							
14	2	172A37-03300	LABEL,NEWTRAL CA	1							
15	2	172A37-03310	LABEL,SWING AREA CA	1							
16	2	172469-03320	LABEL,RADIATOR CAP	1							
17	2	172A37-03330	LABEL,ENGINE COVER	1							
18	2	172A37-03350	LABEL,SILENCER CA	2							
19	2	172469-03360	LABEL,OIL	1							
20	2	172A37-03360	LABEL,STERRING CA	1							
21	2	172A37-03370	LABEL,ROPS CA	1							
22	2	172A37-03400	LABEL,LEVER LOCK CA	1							
23	2	172467-03411	LABEL,GREASING CA	1							
24	2	172A07-03410	LABEL,WATER DRAIN	1							
25	2	172A37-03410	LABEL,RADIATOR CA	1							
26	2	172A37-03420	LABEL,WINDOW CA	1							
27	2	172A37-03430	LABEL,2 WAY CA	1							
28	2	172469-03480	LABEL,SWITCH	1							
29	2	172A37-03500	LABEL,SUPPORT CA	2							
30	2	172A37-03520	LABEL,PIN CA	1							
31	2	172A37-03530	LABEL,FINGER CA	1							
32	2	172469-03540	LABEL,OPERATION PIN	1							
33	2	172A37-03540	LABEL,SAND CA	1							
34	2	172469-03550	LABEL,OP HITCH	1							
35	2	172A37-03550	LABEL,WARNING HITCH	1							
36	2	172A47-03601	LABEL,FUSE CA	1							
37	2	172A84-03600	LABEL SPEC CA	1							
37-1	2	172A84-03601	LABEL SPEC CA	1							N
(A=M53001)											
38	2	172A44-03611	LABEL,LIFT Q CA	1							
39	2	172A46-03610	LABEL,OIL & WATER	1							
40	2	172A47-03610	LABEL, GREASE CA	1							
41	2	172A47-03651	LABEL,PTO CA	1							
42	2	172A37-03680	LABEL,LOCK PIN CA	1							
43	2	172A37-03710	LABEL,ENGROOM CA	1							
44	2	172A37-03720	LABEL,SEAT BELT CA	1							
45	2	172A37-03730	LABEL,BOOM CA	2							
46	2	129942-07760	LABEL, FUEL OIL NOTI	1							W
(A=M53001)											
46-1	2	129942-07761	LABEL, FUEL OIL CAUT	1							N

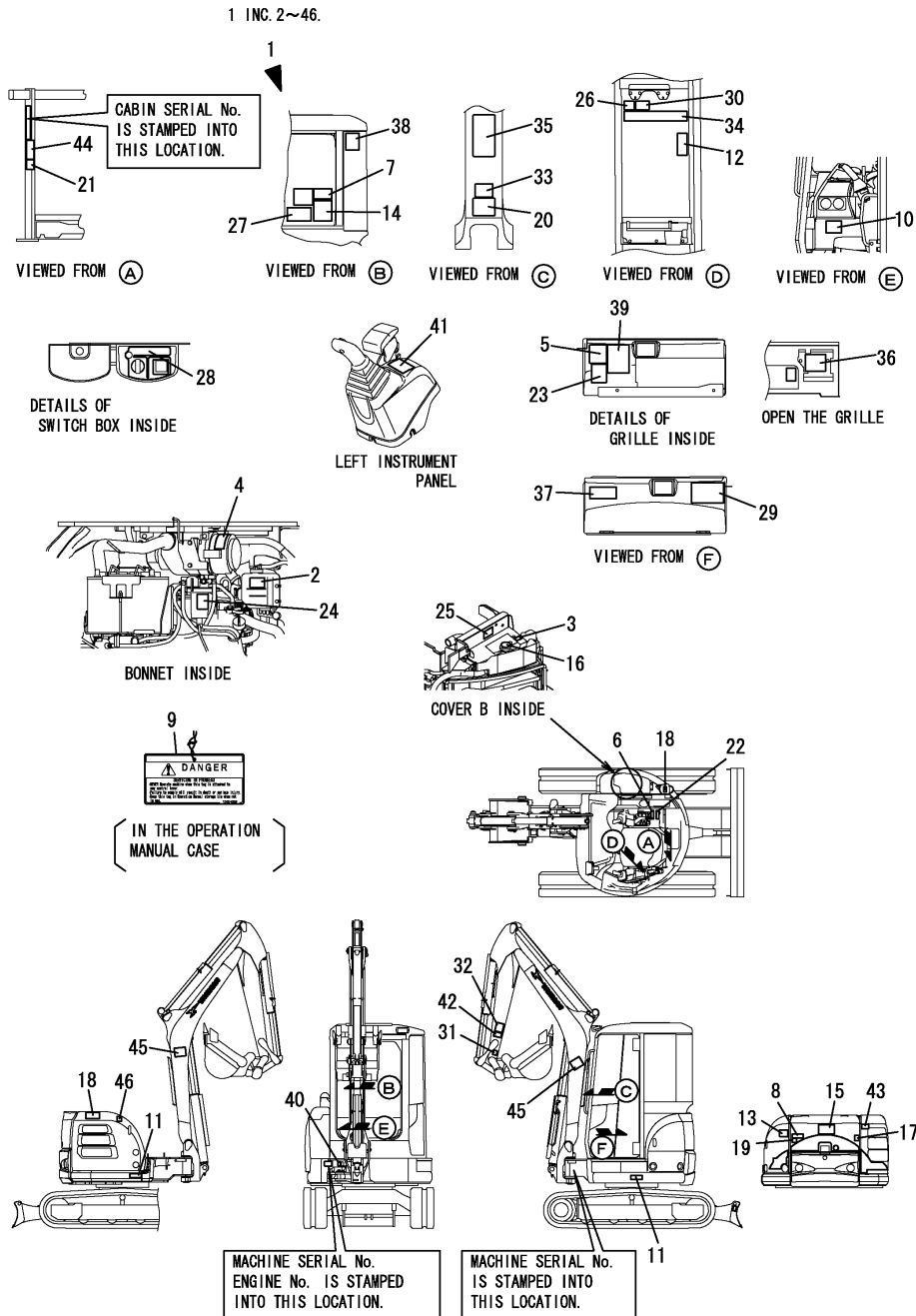
Fig.117. LABEL(FRANCH FOR CANADA)(OPTIONAL)

(A)=VIO27-5B(US)  
 (B)=VIO27-5B(AS)  
 (C)=VIO27-5B(NZ)

(D)=VIO27-5B(SG)  
 (E)=  
 (F)=

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

(A=M53499)



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	52	27 E
114110-07761	1	65 -1
	2	62 -1
	3	32 -1
	4	31 -1
	52	27 E-1
119247-77100	18	12
	23	8
119650-77910	18	14
119650-77911	18	14 -1
119802-55710	13	12
119802-77200	18	13
119808-12520	6	6 -1
119808-12540	6	8
119866-12530	6	7
120147-44810	28	15
121250-49121	10	6
121450-44531	10	12
121468-44510	10	10
121468-44520	10	10 -1
121468-44540	10	13
121470-44581	10	15
124450-44560	10	14
124465-44950	22	23
	27	43
	119	24
124701-11911	6	12
124766-59050	10	18
	13	15
124970-77920	15	18
129004-12520	6	6
129100-55690	13	11
129211-77920	18	15
129400-13201	6	13
129612-52100	15	9
129942-07760	117	46
129942-07761	117	46 -1
172020-10620	106	2
172110-76170	102	6 -1
172110-76170-3	102	6
172112-77361	91	11
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172113-12522	7	8
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172122-37844	30	15
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172122-46590	34	13
		36 13
172122-57620	43	13
172122-57630	43	10
172122-57640	43	11
172122-70350	70	53
172122-70630	71	39
172122-73430	70	62
172122-73470	70	10
		71 40
172122-73480	70	11
172122-79890	104	25
172122-79930	90	18
		96 14
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		102 17
		104 26
		116 12
172122-82290	108	8
172123-76121	19	9
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		93 4
		97 5
		99 10
		10 -1
		100 30
		102 3
		104 1
		114 18
		115 1
172124-13230-3	8	9
172124-13411	10	8
172124-17640	22	12
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		119 13
172124-46200	33	5
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172124-65450	51	13
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172124-70390	71	2
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172126-11510	14	7 A
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		22 1
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	119	1
172126-16540	19	23
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		106 22
172137-12270	7	7
172137-14610	13	9
172137-16560	20	6
		27 7
172137-17631	22	10
		27 17
		119 11
172137-46042	8	11
		64 1
		65 1
		66 1
172137-46210	21	18
172137-62970	106	25
172137-66230	45	3
172137-69850	47	14
172137-73860	72	5
172137-76580	102	9
172141-13490	22	2
		27 4
		119 2
172141-37320	29	6
		123 3
172141-41340	7	9
		34 1
172141-41360	36	5
		37 3
		49 4
172141-41370	33	3
		34 3
		6
		40 3
172141-50762-3	45	21
172141-50763-1	45	21 -1
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172141-70470	70	6
172141-72190	65	8
		68 3
172141-72250	66	8
		67 2
172141-72420	66	9
172141-72690	68	5
172141-73090	66	32
172141-73770	90	6
172141-76181	19	10
		67 27
		92 9
		93 9
		95 1
		96 1
		97 8
		99 11
		11 -1
		100 9
		102 7
		113 21
172141-76220	96	5
		100 12
		115 2
172141-76900	113	19
172141-76920	103	6
172141-84601	110	18
172142-45870	36	10
172142-57610	43	9
172142-72260	64	33
172142-73800	72	7
172142-74670	99	7
172142-76181	64	38
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172142-76240	100	13
172142-76940-2	101	10
172142-76940-Y	101	10 -1
172142-81620	107	7
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172151-76990-2	101	11
172151-76990-Y	101	11 -1
172155-83170	9	30
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172156-72770	69	4
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172162-13200	8	7
172162-14200	12	10
172162-18040	25	2
172162-46210	36	12
172162-46690	33	10
172162-65650	49	42
172162-69050	53	21
172162-69470	57	22
172162-69480	57	23
172162-69490	57	24
172162-69500	57	25
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172164-65710	49	11
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172164-81670	106	5
	107	8
	111	1
172164-81700	109	3
172164-81820-1	108	1
172164-81820-Y	108	1 -1
172165-12140	7	6
172165-18601	24	9
172165-18630	24	11
172165-18670	24	12
172165-45490	40	1
172165-45970	32	2
172165-47550	33	12
172165-62800	45	15
	112	6
172165-69190	53	22
172165-71200	63	2
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172165-82530	64	50
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172165-82580	67	33
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172165-82590	67	34
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172168-72410	65	11
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172173-76102	91	1
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172175-72550	68	4
172175-73700	90	4
172175-73710	90	5
172175-76420	25	17
172175-81700	105	1
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172175-81710	105	2
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172176-67880	59	13
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172183-73660	70	70
172183-73670	70	16
172183-73770	70	17
172183-73780	70	18
172183-73810	70	87
172183-73870	70	19
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172186-76430	99	20
172187-17070	17	2
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172187-17290	48	9
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172187-17570	48	4
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172187-61421	46	7
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172422-37310	29	5
172422-37780	30	13
		34
172422-72470	64	36
172422-72791-2	68	1
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172422-73140	63	19
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172422-73160	63	20
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172422-73700	63	67
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172422-76100	63	3
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172422-76130	93	6
172422-76180	91	5
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172422-78390	97	18
172422-94210	111	7
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	54	48 B
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172444-13220	10	5
172444-14130	12	23
172444-14200	12	11
172444-14450	12	12
172444-14460	12	13
172444-14470	12	14
172444-14480	12	15
172444-14490	12	16
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172444-65610	49	10
172444-68650	25	26
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		15
	53	34
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172445-69420	57	21
172445-69740	54	25
172446-13530	11	4 A
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172446-14250	49	1
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172447-13550	25	1
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172447-14160	12	9
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172448-72650	65	12
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172448-82580	109	21
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172448-82590	109	22
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172450-73330	70	55
172450-73490	70	12
172450-73501	70	13
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