

0CS10-M46001EN

# P R E F A C E

1. This Parts Catalog carries Yanmar excavator (crawler back-hoe) Vio15-2A For U. S. A. & Australia.

Pub. No. : 000Y00S4601

Published : Oct. , 2006

2. Parts catalog history

		Parts catalog NO.	Published	Remarks
1st edition	Vehicle	000Y00S4600	Feb. , 2005	Disuse old edition
	Engine	000Y00B7270		
1st revised	Vehicle	000Y00S4601	Oct. , 2006	
	Engine	000Y00B7271		

3. Model name

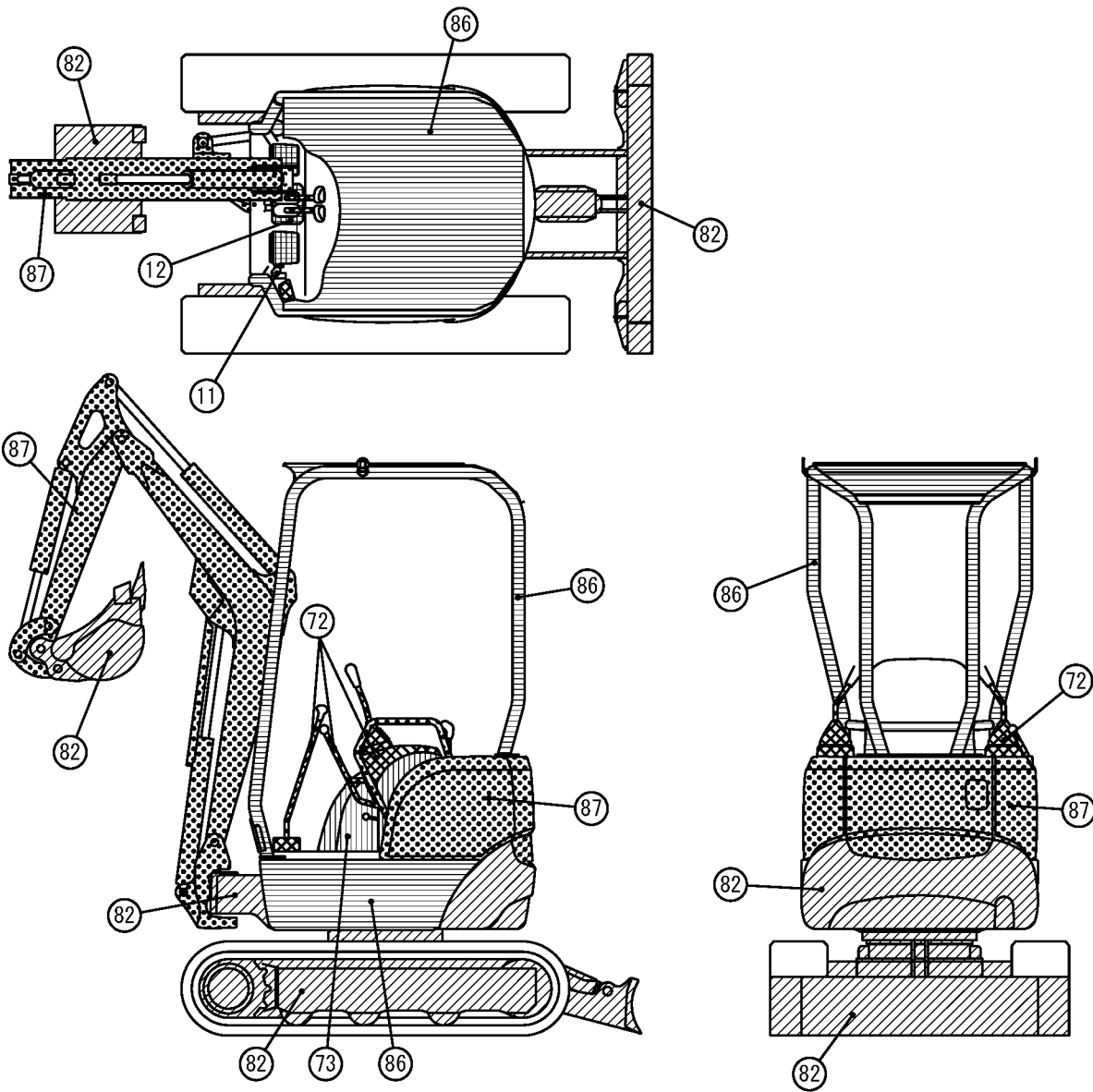
SECTION	Column	Model name	M/#	Manufactured
I (Vehicle)	(A)	Vio15-2A (US)	27501~	2004/12~
	(B)	Vio15-2A (AS)		
II (Engine)	(A)	3TNV70-WBV	01122~	2004/11~



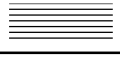


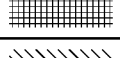
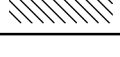
(Note) US:U. S. A. AS:Australia.

4. 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 (PREVIOUS)

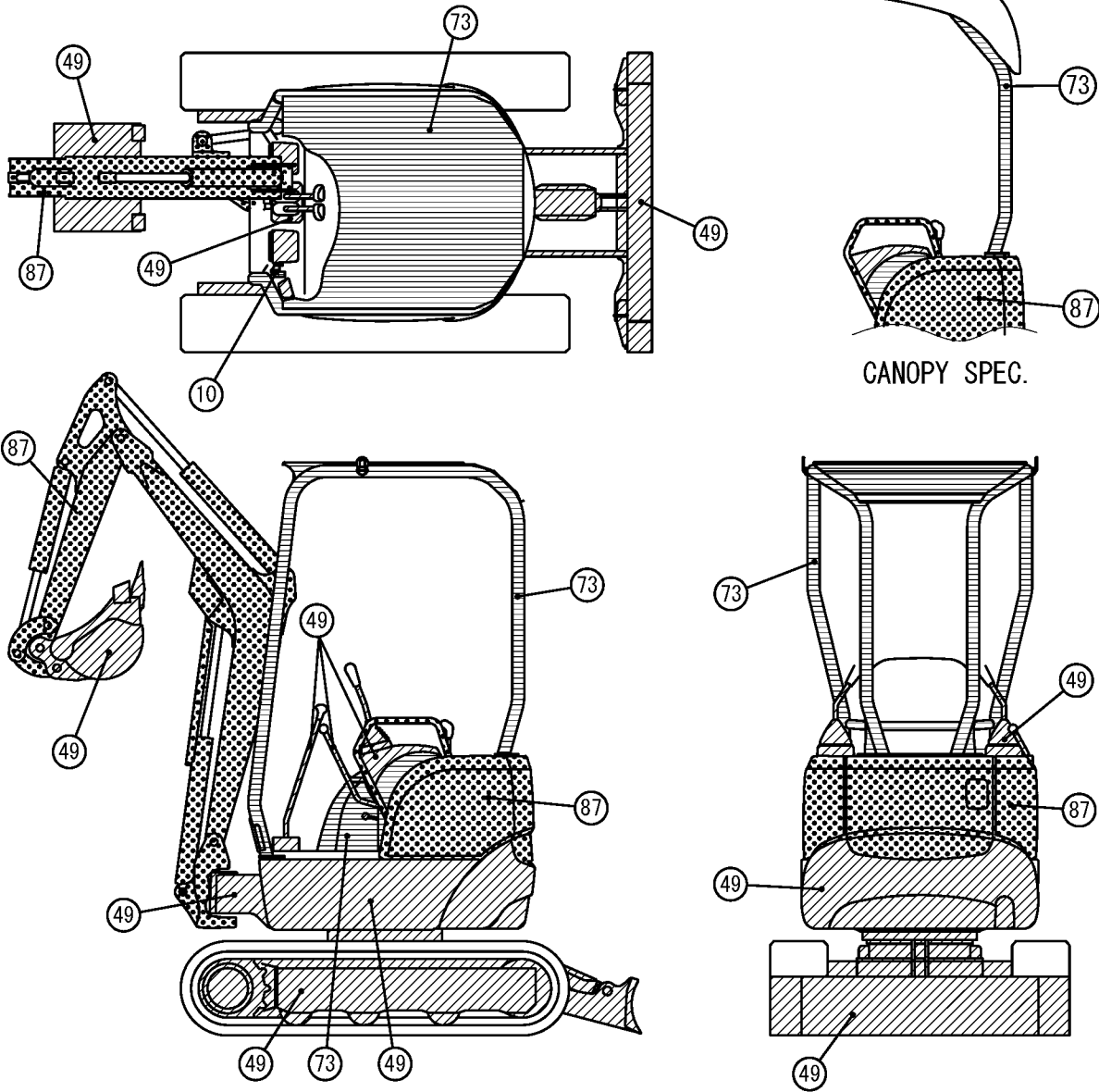
~M/#28165







Color Code	Description	Painted Color	Munsel No.	Paint Part No.		
				16L Can	4L Can	SPRAY
82		YANMAR Deep Green	6. 39BG2. 13/1. 73	981101-09517	977620-40820	-----
87		YANMAR New Permanent Yellow	5. 15Y8. 45/10. 81	981101-09519	977620-04870	977620-30871
86		YANMAR New Grayish Green	2. 62BG4. 76/2. 87	981101-09616	977620-40861	977620-30861
72		YANMAR Dark Olive Gray	5. 39Y2. 92/0. 78	-----	977620-40720	TOR-90460003
73		YANMAR Warm Gray	7Y5. 3/0. 8	-----	-----	TOR-90450003
12		YANMAR Black	4. 90PB0. 08/0. 41	-----	TOR-91220001	TOR-90220003
11		YANMAR Red	7. 5 R4/14	-----	977620-40010	TOR-90000003

# VEHICLE PAINTED COLOR (NEW)

M/#28166~



CANOPY SPEC.

Color Code	Description	Painted Color	Munsell No.	Paint Part No.		
				16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	8. 12B1. 31/0. 42	-----	TOR-91390000	TOR-90390002
87		YANMAR New Permanent Yellow	5. 15Y8. 45/10. 81	981101-09519	977620-40870	977620-30871
73		YANMAR Warm Gray	5. 52Y4. 91/1. 09	-----	-----	TOR-90450003
10		YANMAR Red2	7. 13R3. 66/3. 88	-----	TOR-91000002	TOR-90000004

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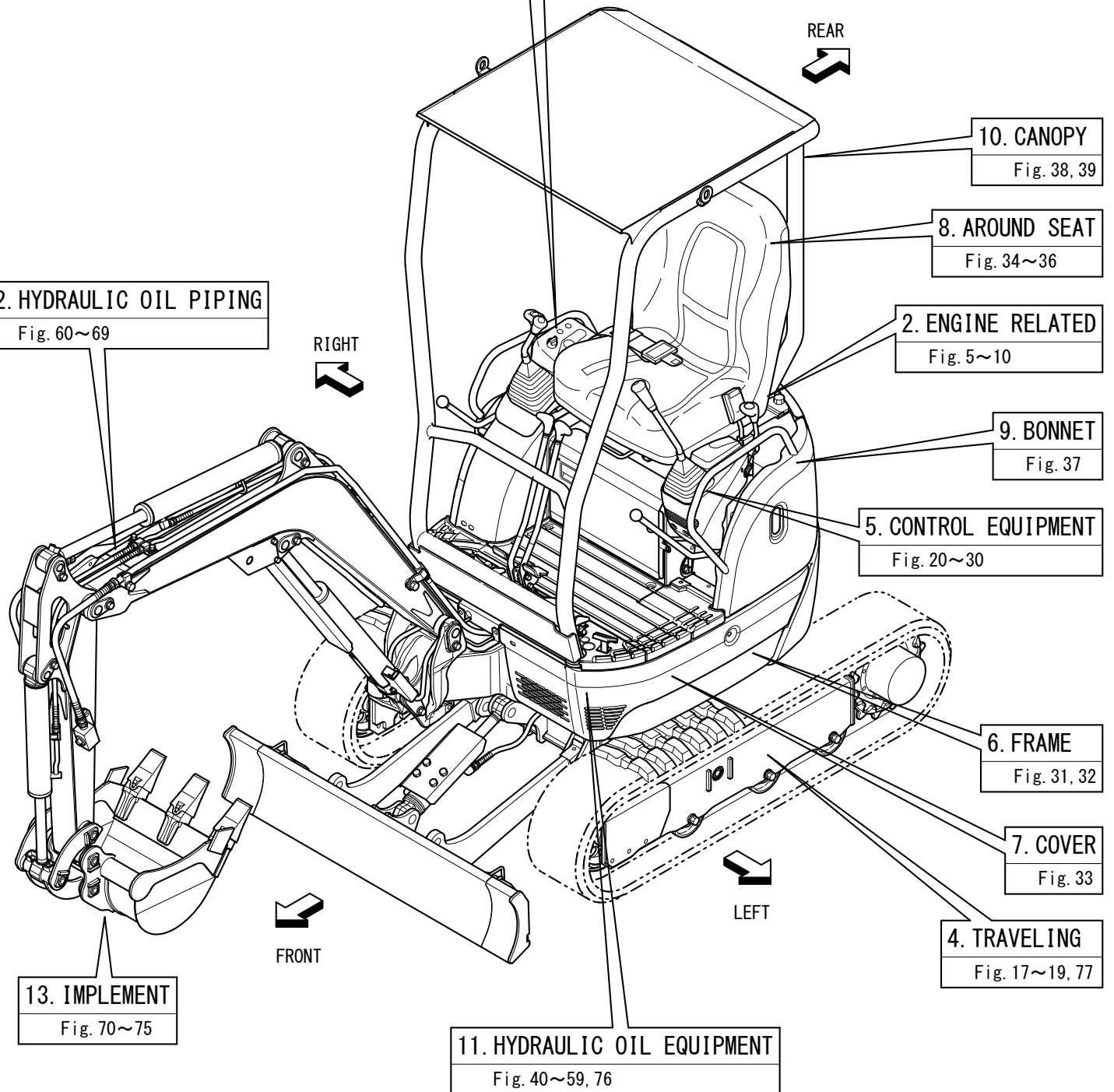
FRONT

## 13. IMPLEMENT

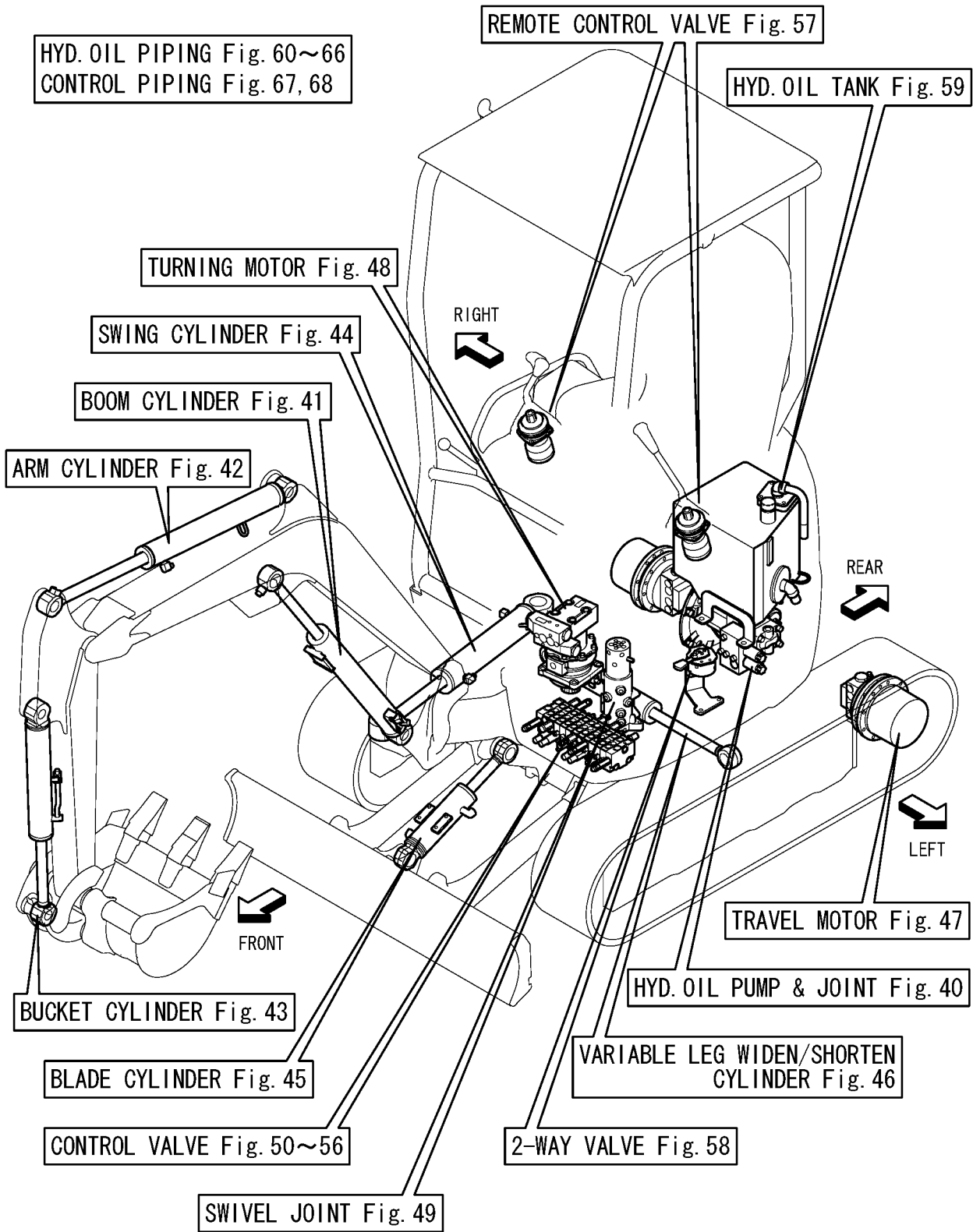
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Fig. No. Fig. Name

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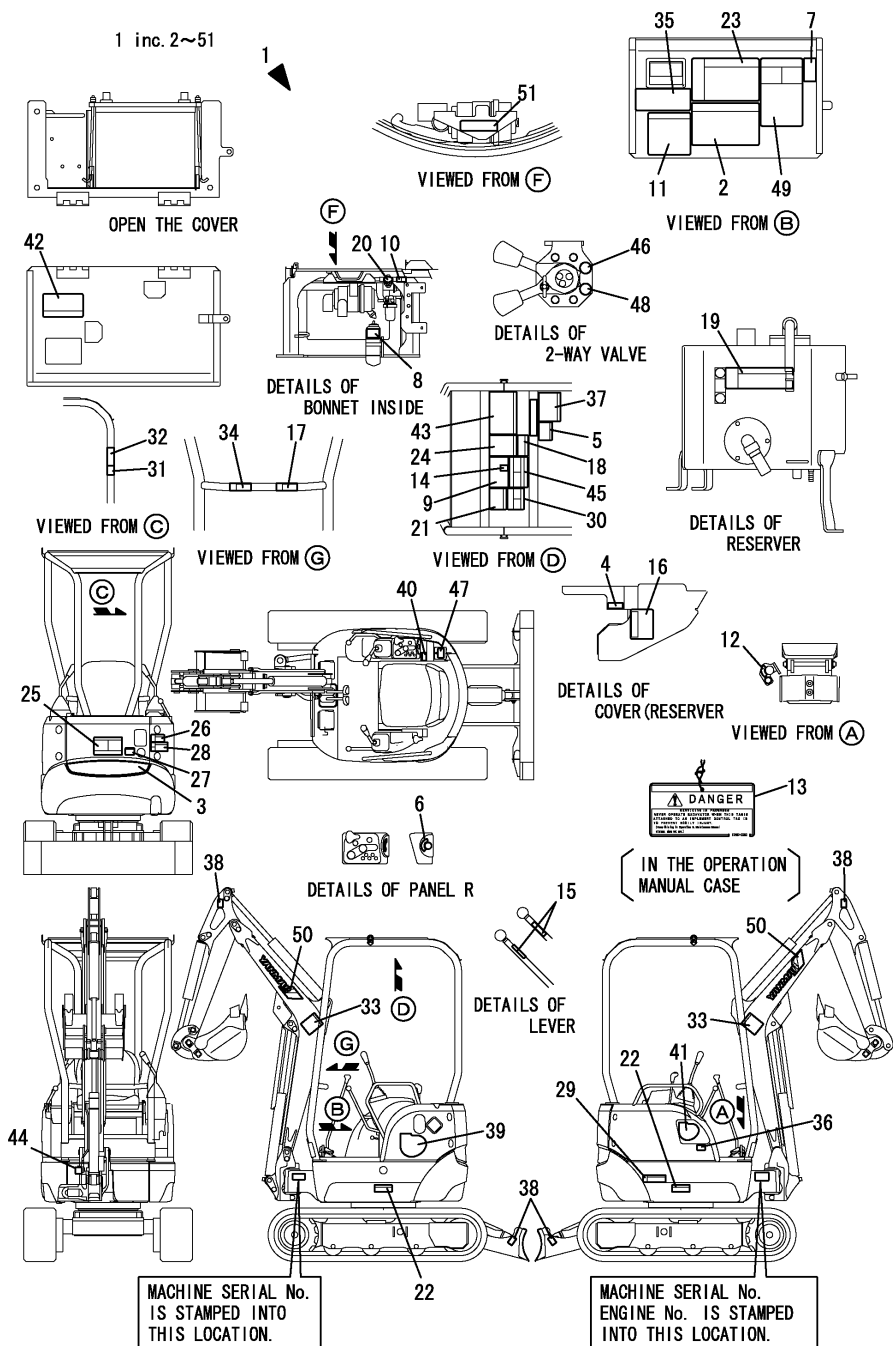
75. BLADE

OPTIONAL & KIT

78. SEAT KIT(OPTIONAL)

Fig. No. Fig. Name

Fig.1. LABEL(ROPS CANOPY)



(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

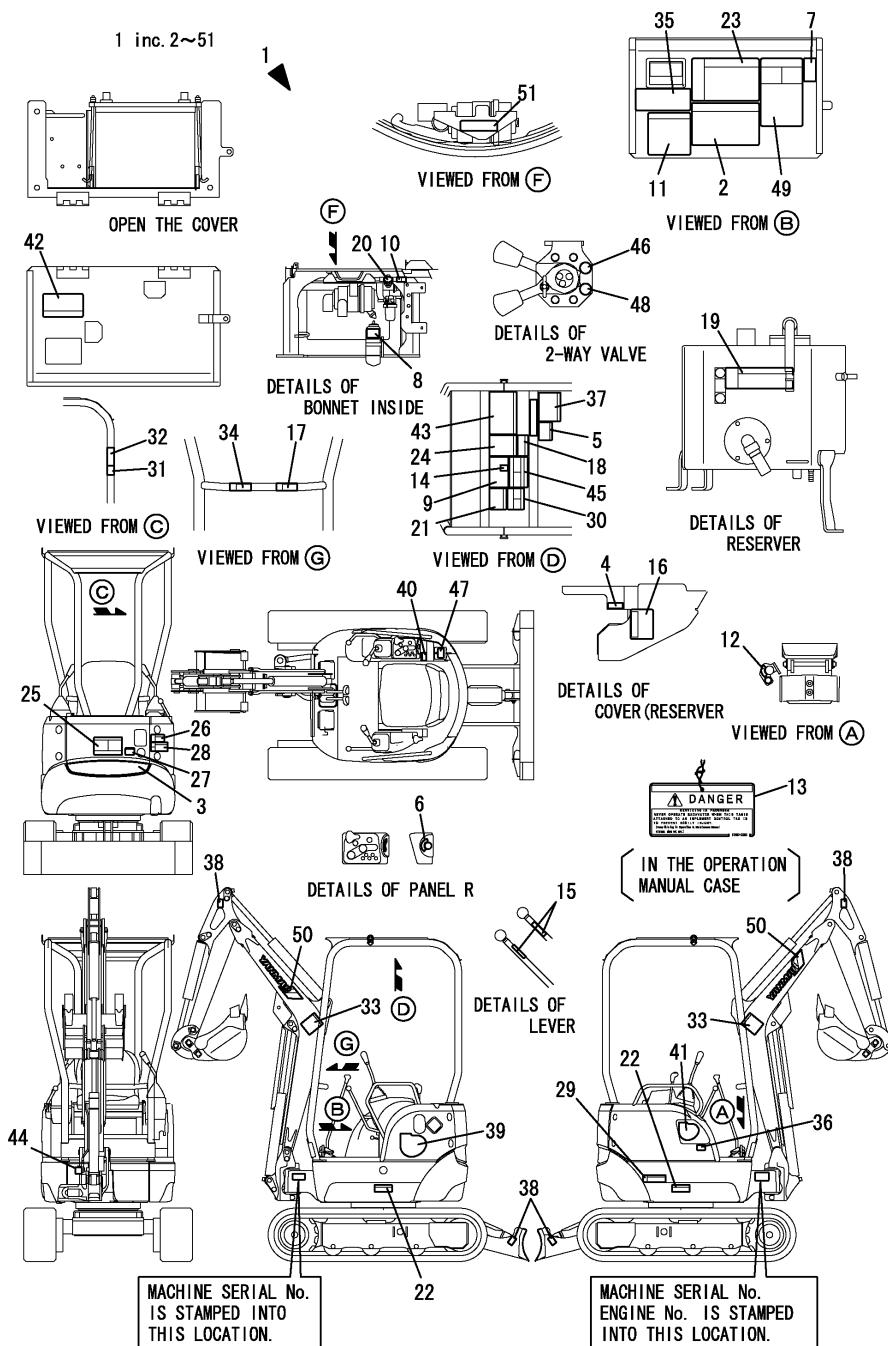
(D)=  
(E)=  
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A55-03110	LABEL SET,V15-2A US	1	1						
2	2	172472-03141	LABEL, SUPPORT US	1	1						
3	2	172448-03150	LABEL,REAR	1	1						
4	2	172519-03150	LABEL, ACCEL	1	1						
5	2	172472-03160	LABEL,GREASE	1	1						
6	2	172157-03170	LABEL, KEY SWITCH	1	1						
7	2	172448-03180	LABEL,W/S OPERATION	1	1						
8	2	172A38-03200	LABEL, SUB-TANK US	1	1						
8-1	2	172A38-03201	LABEL, SUB-TANK US	1	1						N
9	2	172490-03200	LABEL	1	1						
10	2	172A38-03210	LABEL,ANTI-FREEZING	1	1						
10-1	2	172A38-03211	LABEL,ANTI-FREEZING	1	1						N
11	2	172437-03242	LABEL, CRAWLER US	1	1						
12	2	172458-03240	LABEL,LOCK	1	1						
13	2	172437-03250	TAG ASSY, CAUTION	1	1						
13-1	2	172437-03251	TAG ASSY, CAUTION	1	1						N
13-2	2	172437-03252	TAG ASSY, CAUTION	1	1						N
14	2	172496-03250	LABEL, P.T.O.	1	1						
15	2	172183-03280	LABEL,LOCK	2	2						
16	2	172463-03290	LABEL,HYD.OIL US	1	1						
17	2	172437-03301	LABEL, MANUAL US	1	1						
17-1	2	172437-03302	LABEL, MANUAL US	1	1						N
18	2	172437-03311	LABEL, SLOPE US	1	1						
18-1	2	172437-03312	LABEL,SLOPE US	1	1						N
19	2	172437-03322	LABEL, HYD.OIL TANK	1	1						
20	2	172462-03320	LABEL	1	1						
21	2	172437-03342	LABEL, TRANSPORT US	1	1						
21-1	2	172437-03343	LABEL, TRANSPORT US	1	1						N
22	2	172437-03352	LABEL, GREASE CYL.	2	2						
23	2	172437-03361	LABEL, BATTERY US	1	1						
24	2	172437-03372	LABEL, NEUTRAL US	1	1						
25	2	172437-03381	LABEL,SWING AREA US	1	1						
26	2	172437-03391	LABEL, RADIATOR US	1	1						
27	2	172437-03402	LABEL, ENG,COVER US	1	1						
28	2	172A36-03411	LABEL, ENG ROOM	1	1						
29	2	172437-03422	LABEL, MUFFLER US	1	1						
30	2	172437-03432	LABEL, STEERING US	1	1						
31	2	172437-03441	LABEL, ROPS US	1	1						
32	2	172437-03451	LABEL, SEAT BELT US	1	1						
33	2	172437-03461	LABEL, BOOM US	2	2						
34	2	172437-03471	LABEL, LEVER LOCK US	1	1						
35	2	172A55-03500	LABEL,SPECIFICATION	1	1						
36	2	172437-03501	LABEL, FUEL US	1	1						
37	2	172A55-03510	LABEL,OIL&WATER US	1	1						

Fig.1. LABEL(ROPS CANOPY)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

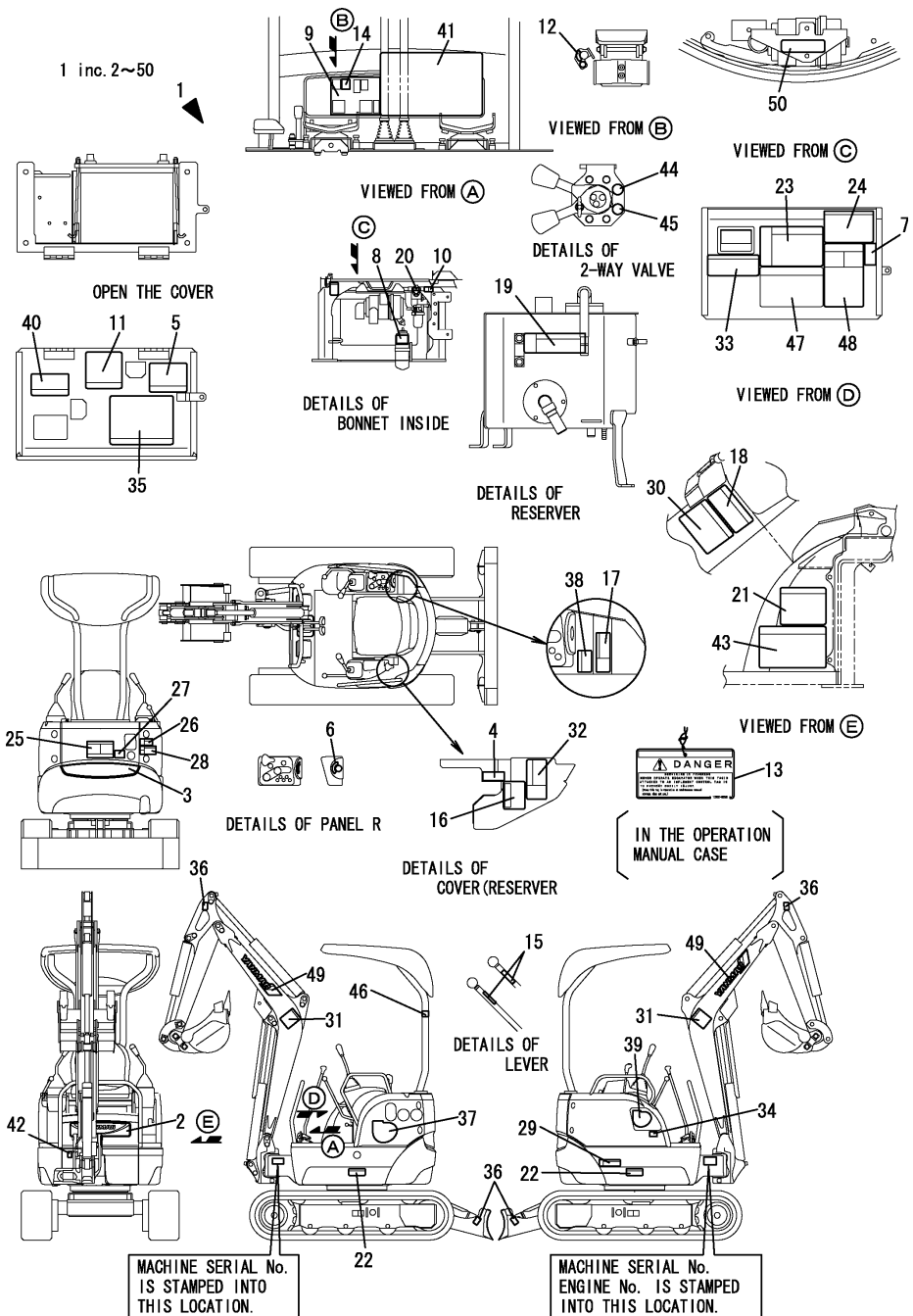


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
38	2	172437-03511	LABEL, HOOK US	4	4						
39	2	172448-03521	LABEL, MODEL L US	1	1						
40	2	172437-03530	LABEL, RE-START	1	1						Z
				(A=M/#27501) (B=M/#27501)							
41	2	172448-03531	LABEL, MODEL R US	1	1						
42	2	172448-03540	LABEL, FUSE	1	1						
43	2	172A55-03560	LABEL, LIFT US	1	1						
44	2	172A55-03590	LABEL, GREASE	1	1						
45	2	172437-03601	LABEL, 2-WAY US	1	1						
46	2	172437-03610	LABEL	1	1						
47	2	172448-03610	LABEL, SEATBELT HOOK	1	1						
48	2	172437-03620	LABEL	1	1						
49	2	172446-03652	LABEL, VARIABLE US	1	1						
50	2	172519-03680	LABEL, BRAND	2	2						
50-1	2	172A55-03310	LABEL, BRAND 450	2	2						N
				(A=M/#28166) (B=M/#28166)							
51	2	172125-03951	LABEL, AIR CLEANER	1	1						

Fig.2. LABEL(CANOPY)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



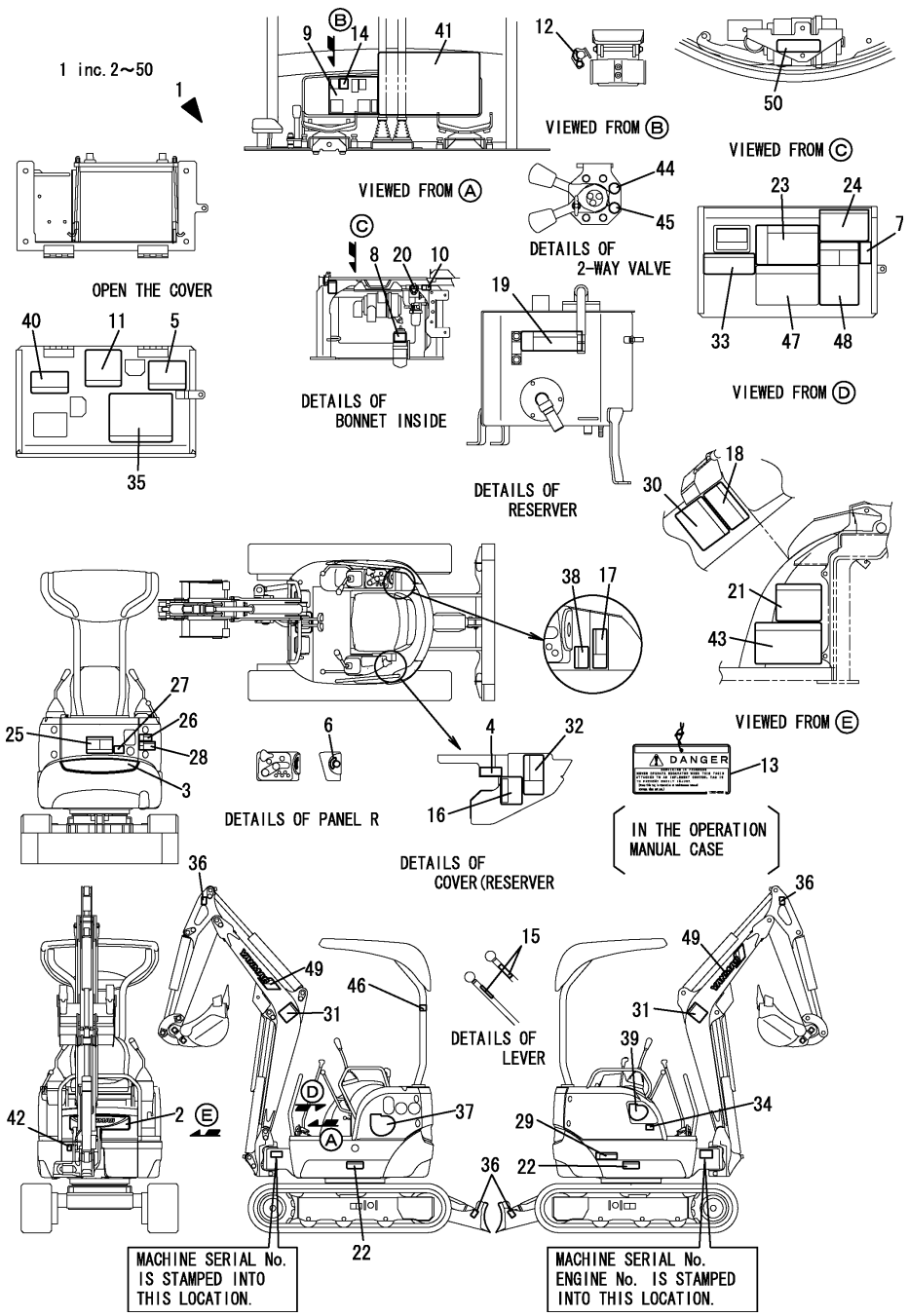
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A55-03220	LABEL SET,V15-2A USP		1						
2	2	172458-03140	LABEL, FRONT		1						
3	2	172448-03150	LABEL,REAR		1						
4	2	172519-03150	LABEL, ACCEL		1						
5	2	172472-03160	LABEL,GREASE		1						
6	2	172157-03170	LABEL, KEY SWITCH		1						
7	2	172448-03180	LABEL,W/S OPERATION		1						
8	2	172A38-03200	LABEL, SUB-TANK US		1						
8-1	2	172A38-03201	LABEL, SUB-TANK US		1						N
(B=M/#28218)											
9	2	172490-03200	LABEL		1						
10	2	172A38-03210	LABEL,ANTI-FREEZING		1						
10-1	2	172A38-03211	LABEL,ANTI-FREEZING		1						N
(B=M/#28218)											
11	2	172437-03242	LABEL, CRAWLER US		1						
12	2	172458-03240	LABEL,LOCK		1						
13	2	172437-03250	TAG ASSY, CAUTION		1						
13-1	2	172437-03251	TAG ASSY, CAUTION		1						N
(B=M/#27943)											
13-2	2	172437-03252	TAG ASSY, CAUTION		1						N
(B=M/#28218)											
14	2	172496-03250	LABEL, P.T.O.		1						
15	2	172183-03280	LABEL,LOCK		2						
16	2	172463-03290	LABEL,HYD.OIL US		1						
17	2	172437-03301	LABEL, MANUAL US		1						
17-1	2	172437-03302	LABEL, MANUAL US		1						N
(B=M/#28218)											
18	2	172437-03311	LABEL, SLOPE US		1						
18-1	2	172437-03312	LABEL,SLOPE US		1						N
(B=M/#27943)											
19	2	172437-03322	LABEL, HYD.OIL TANK		1						
20	2	172462-03320	LABEL		1						
21	2	172437-03342	LABEL, TRANSPORT US		1						
21-1	2	172437-03343	LABEL, TRANSPORT US		1						N
(B=M/#28218)											
22	2	172437-03352	LABEL, GREASE CYL.		2						
23	2	172437-03361	LABEL, BATTERY US		1						
24	2	172437-03372	LABEL, NEUTRAL US		1						
25	2	172437-03381	LABEL,SWING AREA US		1						
26	2	172437-03391	LABEL, RADIATOR US		1						
27	2	172437-03402	LABEL, ENG,COVER US		1						
28	2	172A36-03411	LABEL, ENG ROOM		1						
29	2	172437-03422	LABEL, MUFFLER US		1						
30	2	172437-03432	LABEL, STEERING US		1						
31	2	172437-03461	LABEL, BOOM US		2						
32	2	172437-03471	LABEL, LEVER LOCK US		1						
33	2	172A55-03500	LABEL,SPECIFICATION		1						
34	2	172437-03501	LABEL, FUEL US		1						
35	2	172A55-03510	LABEL,OIL&WATER US		1						
36	2	172437-03511	LABEL, HOOK US		4						
37	2	172448-03521	LABEL, MODEL L US		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  
 ++ CONTINUE ++  
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Fig.2. LABEL(CANOPY)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

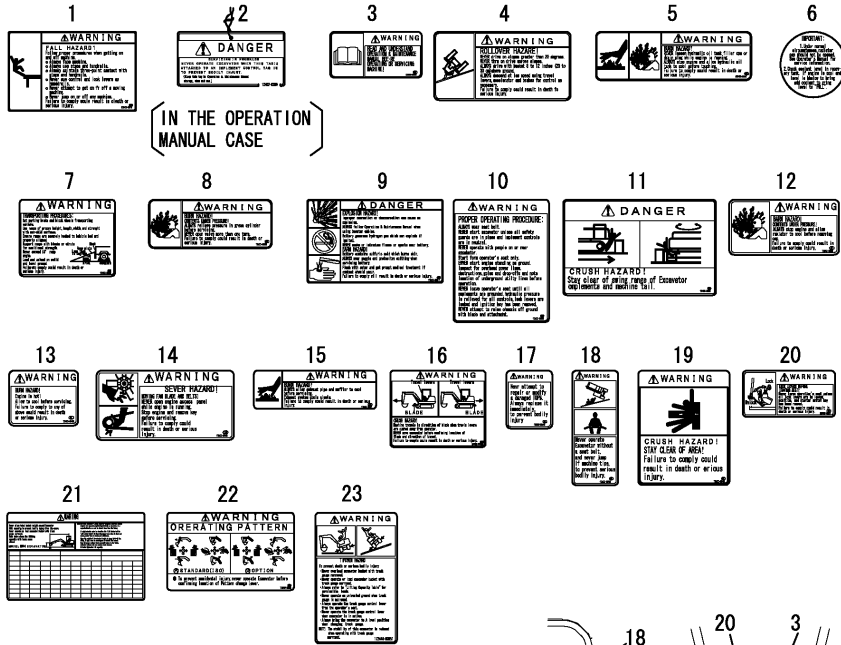


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
38	2	172437-03530	LABEL,RE-START (B=M/#27501)		1						Z
39	2	172448-03531	LABEL, MODEL R US		1						
40	2	172448-03540	LABEL,FUSE		1						
41	2	172A55-03560	LABEL,LIFT US		1						
42	2	172A55-03590	LABEL, GREASE		1						
43	2	172437-03601	LABEL, 2-WAY US		1						
44	2	172437-03610	LABEL		1						
45	2	172437-03620	LABEL		1						
46	2	172448-03620	LABEL, CANOPY AS		1						
47	2	172448-03630	LABEL, SUPPORT 2P		1						
48	2	172446-03652	LABEL, VARIABLE US		1						
49	2	172519-03680	LABEL,BRAND		2						
49-1	2	172A55-03310	LABEL, BRAND 450 (B=M/#28166)		2						N
50	2	172125-03951	LABEL, AIR CLEANER		1						

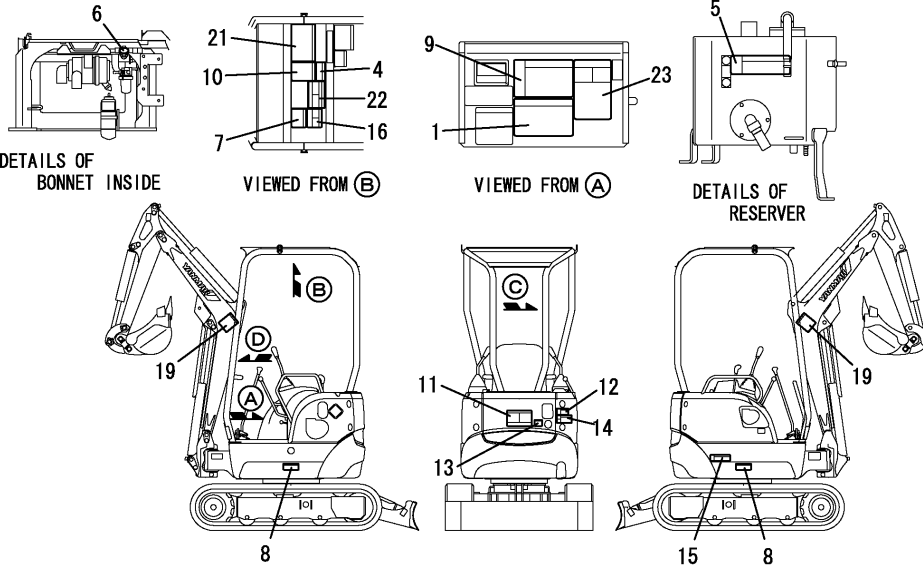
Fig.3. SAFETY LABEL(ROPS CANOPY)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



IN THE OPERATION  
 MANUAL CASE

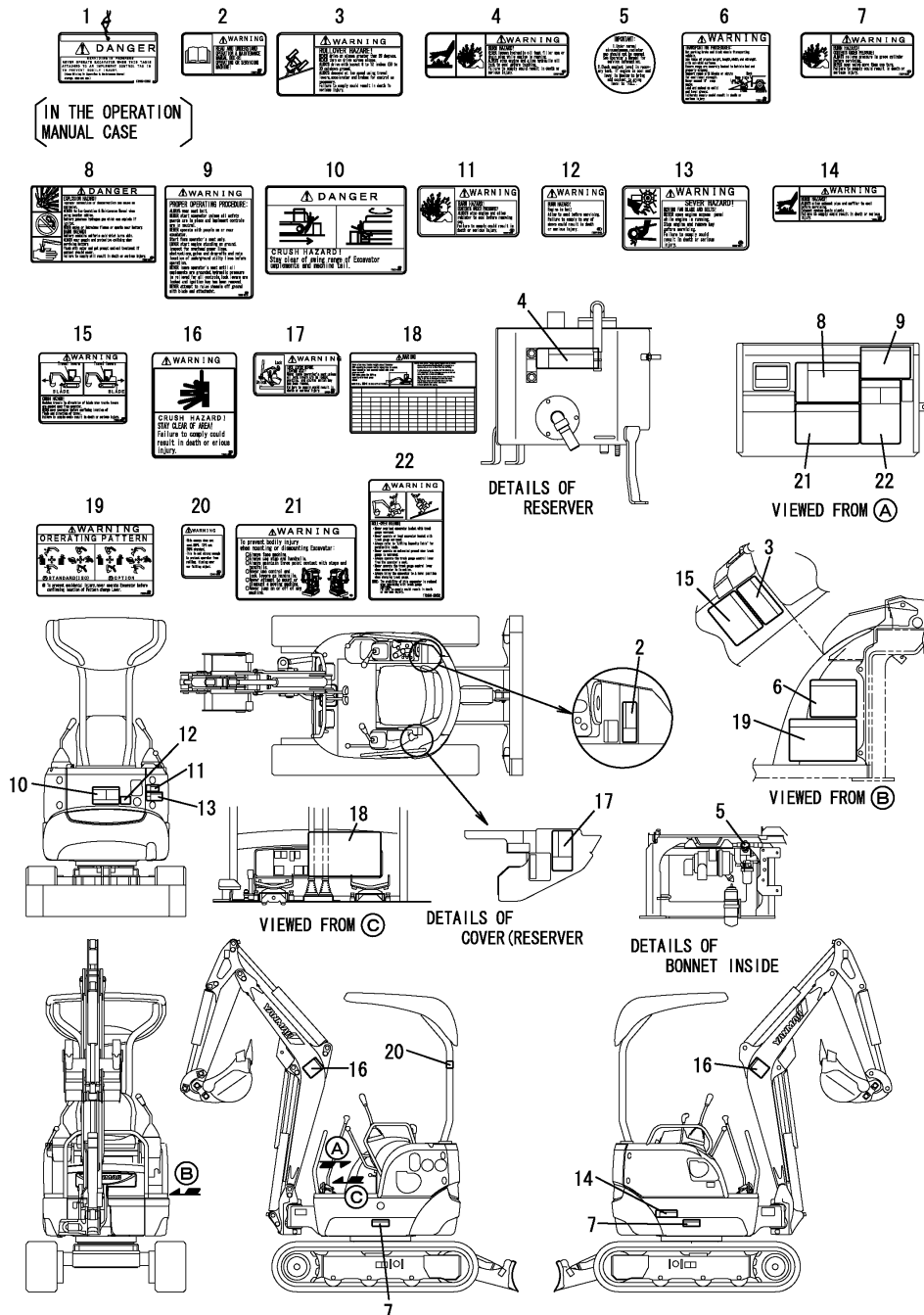


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-03141	LABEL, SUPPORT US	1	1						
2	1	172437-03250	TAG ASSY, CAUTION	1	1						
2-1	1	172437-03251	TAG ASSY, CAUTION	1	1						N
		(A=M/#27943) (B=M/#27943)									
2-2	1	172437-03252	TAG ASSY, CAUTION	1	1						N
		(A=M/#28218) (B=M/#28218)									
3	1	172437-03301	LABEL, MANUAL US	1	1						
3-1	1	172437-03302	LABEL, MANUAL US	1	1						N
		(A=M/#28218) (B=M/#28218)									
4	1	172437-03311	LABEL, SLOPE US	1	1						
4-1	1	172437-03312	LABEL, SLOPE US	1	1						N
		(A=M/#27943) (B=M/#27943)									
5	1	172437-03322	LABEL, HYD.OIL TANK	1	1						
6	1	172462-03320	LABEL	1	1						
7	1	172437-03342	LABEL, TRANSPORT US	1	1						
7-1	1	172437-03343	LABEL, TRANSPORT US	1	1						N
		(A=M/#28218) (B=M/#28218)									
8	1	172437-03352	LABEL, GREASE CYL.	2	2						
9	1	172437-03361	LABEL, BATTERY US	1	1						
10	1	172437-03372	LABEL, NEUTRAL US	1	1						
11	1	172437-03381	LABEL, SWING AREA US	1	1						
12	1	172437-03391	LABEL, RADIATOR US	1	1						
13	1	172437-03402	LABEL, ENG, COVER US	1	1						
14	1	172A36-03411	LABEL, ENG ROOM	1	1						
15	1	172437-03422	LABEL, MUFFLER US	1	1						
16	1	172437-03432	LABEL, STEERING US	1	1						
17	1	172437-03441	LABEL, ROPS US	1	1						
18	1	172437-03451	LABEL, SEAT BELT US	1	1						
19	1	172437-03461	LABEL, BOOM US	2	2						
20	1	172437-03471	LABEL, LEVER LOCK US	1	1						
21	1	172A55-03560	LABEL, LIFT US	1	1						
22	1	172437-03601	LABEL, 2-WAY US	1	1						
23	1	172446-03652	LABEL, VARIABLE US	1	1						

Fig.4. SAFETY LABEL(CANOPY)

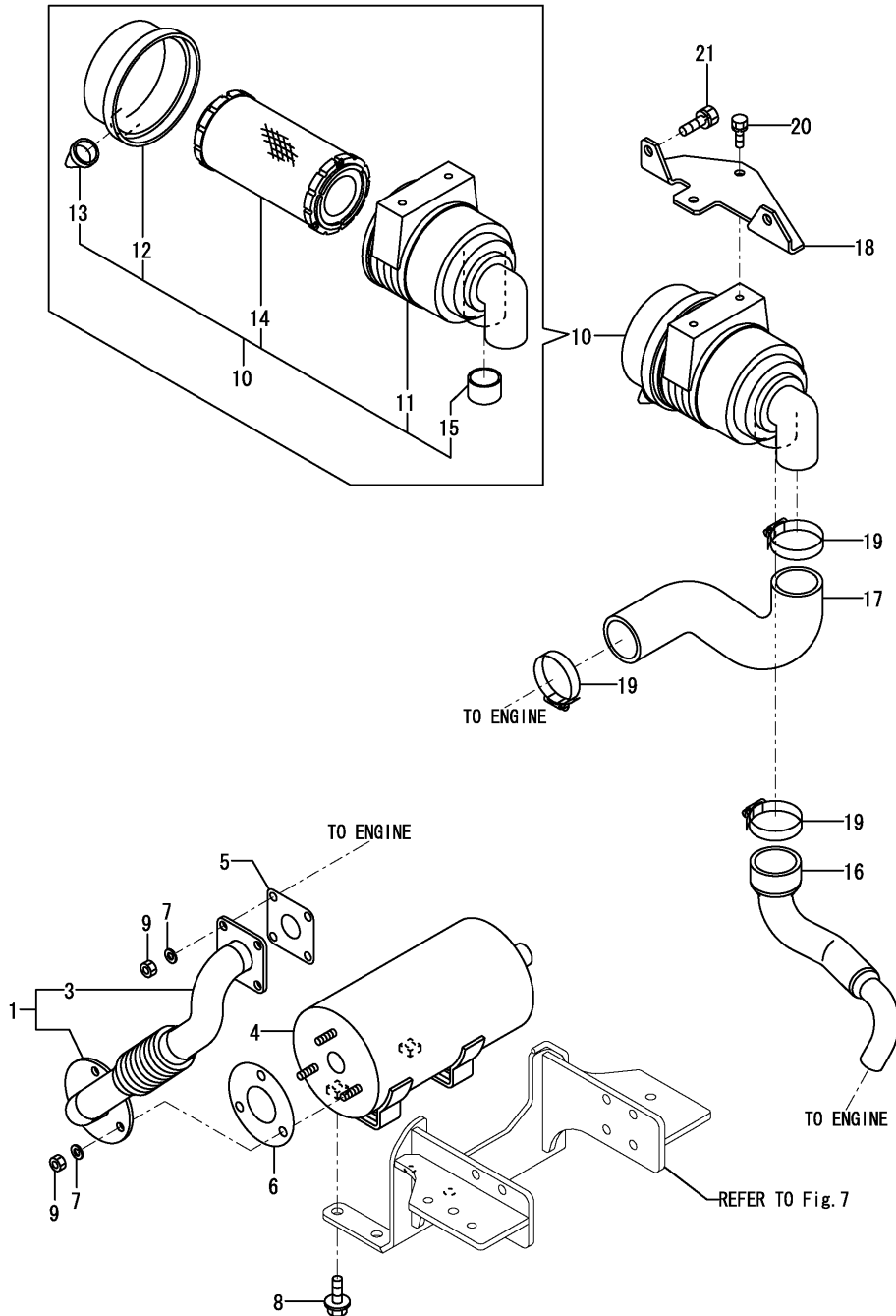
(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172437-03250	TAG ASSY, CAUTION		1						
1-1	1	172437-03251	TAG ASSY, CAUTION		1						N
(B=M/#27943)											
1-2	1	172437-03252	TAG ASSY, CAUTION		1						N
(B=M/#28218)											
2	1	172437-03301	LABEL, MANUAL US		1						
2-1	1	172437-03302	LABEL, MANUAL US		1						N
(B=M/#28218)											
3	1	172437-03311	LABEL, SLOPE US		1						
3-1	1	172437-03312	LABEL, SLOPE US		1						N
(B=M/#27943)											
4	1	172437-03322	LABEL, HYD.OIL TANK		1						
5	1	172462-03320	LABEL		1						
6	1	172437-03342	LABEL, TRANSPORT US		1						
6-1	1	172437-03343	LABEL, TRANSPORT US		1						N
(B=M/#28218)											
7	1	172437-03352	LABEL, GREASE CYL.		2						
8	1	172437-03361	LABEL, BATTERY US		1						
9	1	172437-03372	LABEL, NEUTRAL US		1						
10	1	172437-03381	LABEL, SWING AREA US		1						
11	1	172437-03391	LABEL, RADIATOR US		1						
12	1	172437-03402	LABEL, ENG. COVER US		1						
13	1	172A36-03411	LABEL, ENG ROOM		1						
14	1	172437-03422	LABEL, MUFFLER US		1						
15	1	172437-03432	LABEL, STEERING US		1						
16	1	172437-03461	LABEL, BOOM US		2						
17	1	172437-03471	LABEL, LEVER LOCK US		1						
18	1	172A55-03560	LABEL, LIFT US		1						
19	1	172437-03601	LABEL, 2-WAY US		1						
20	1	172448-03620	LABEL, CANOPY AS		1						
21	1	172448-03630	LABEL, SUPPORT 2P		1						
22	1	172446-03652	LABEL, VARIABLE US		1						

Fig.5. SILENSER & AIR CLEANER



(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

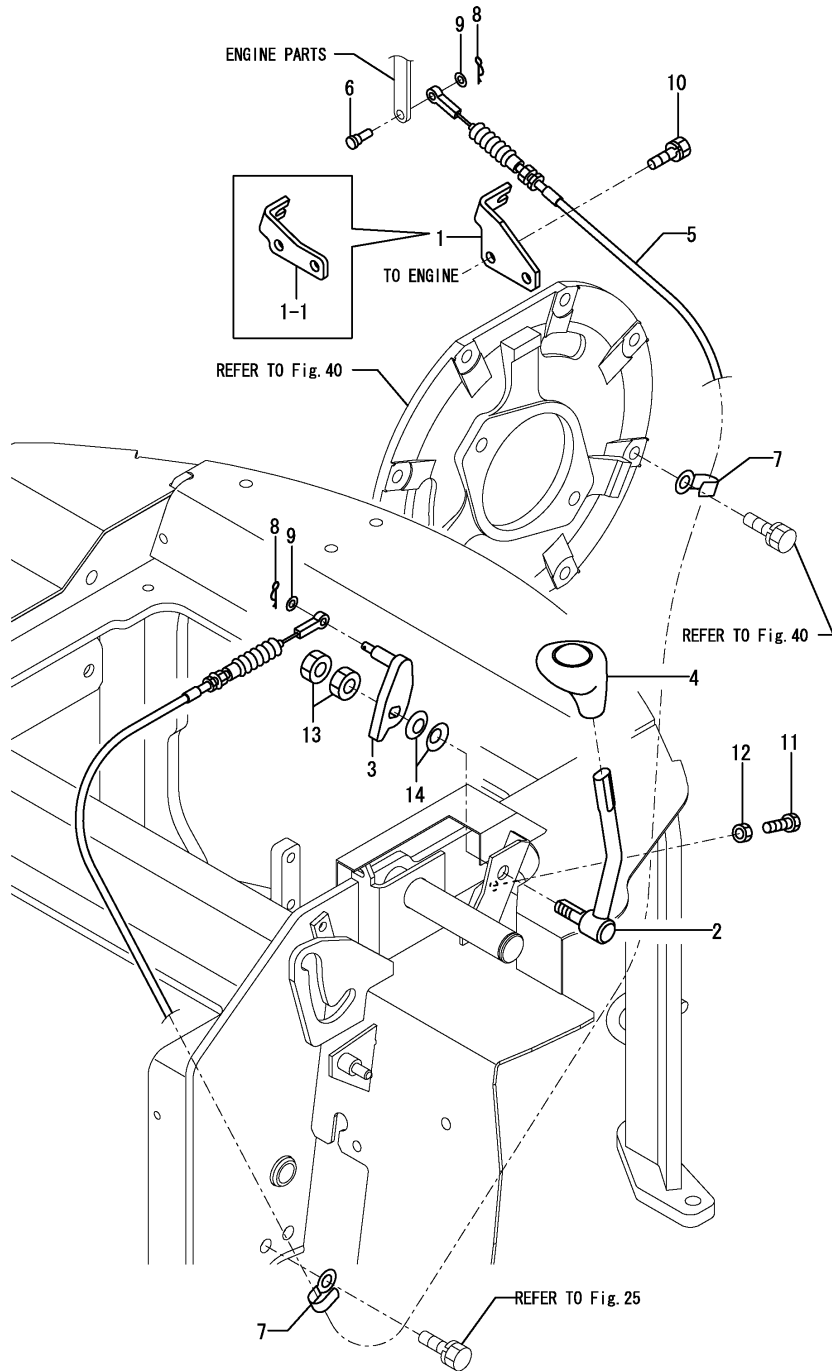
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A55-11300	TUBE ASSY	1	1						
3	2	172183-11400	INSULATOR	1	1						
4	1	172A55-11360	SILENCER ASSY	1	1						
5	1	124701-11911	GASKET, SILENCER	1	1						
6	1	103954-13201	GASKET, SILENCER	1	1						
7	1	22217-080000	WASHER, SPRING 8	7	7						
8	1	26106-100202	BOLT, M10X 20 PLATED	4	4						
9	1	26716-080002	NUT, M8	7	7						
10	1	172448-11500	CLEANER ASSY, AIR	1	1						
11	2	172448-11510	BODY	1	1						
12	2	119258-12530	COVER ASSY.	1	1						
13	2	119808-12540	VALVE, UNLOADER	1	1						
14	2	119655-12560	ELEMENT	1	1						
15	2	105027-12580	RING	1	1						
16	1	172448-11520	HOSE A,AIR CLEANER	1	1						
17	1	172A55-11530	HOSE B, AIR CLEANER	1	1						
18	1	172448-11540	BRACKET,AIR CLEANER	1	1						
19	1	23000-060000	CLAMP, 60	3	3						
20	1	26013-080162	BOLT, M8X 16	2	2						
21	1	26013-100202	BOLT, M10X 20	2	2						



Fig.6. ACCELERATOR

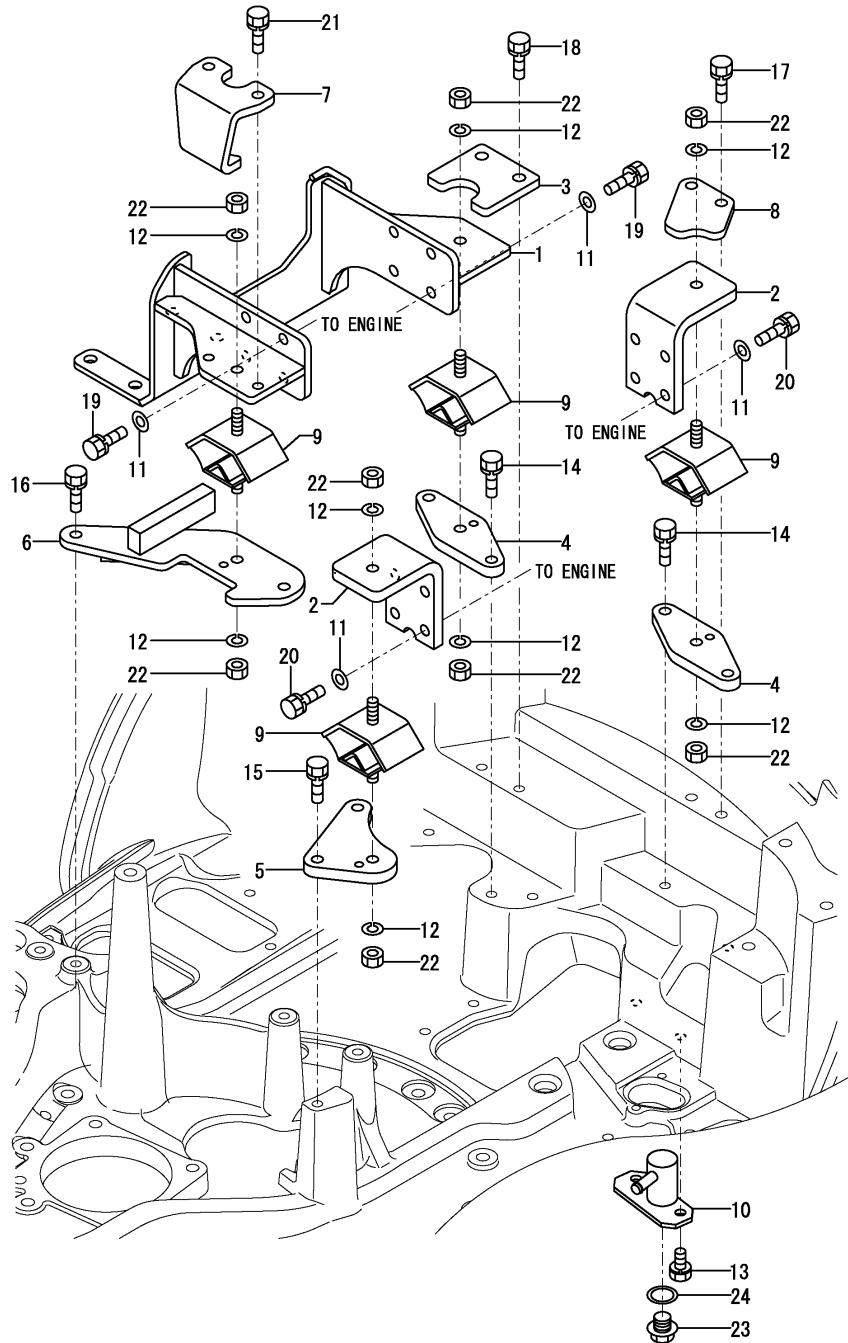
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-12100	BRACKET,ACCEL	1	1						
1-1	1	172A54-12101	BRACKET,ACCEL	1	1						S
		(A=M27204) (B=M27204)									
2	1	172448-12100	LEVER,ACCELERATOR(72	1	1						
2-1	1	172448-12100-1	LEVER,ACCELERATOR(49	1	1						S
		(A=M/#28166) (B=M/#28166)									
3	1	172448-12130	ARM ASSY	1	1						
4	1	172146-12150	GRIP, ACCELERATOR	1	1						
5	1	172A55-12200	CABLE, ACCELERATOR	1	1						
6	1	172113-12522	PIN	1	1						
7	1	172126-16540	CLAMP	2	2						
8	1	1C6281-52310	PIN, SNAP 6	2	2						
9	1	22137-060000	WASHER, 6	2	2						
10	1	26013-080162	BOLT, M8X 16	2	2						
11	1	26116-080254	BOLT, M8X 25 PLATED	1	1						
11-1	1	26116-080304	BOLT, M8X 30 PLATED	1	1						N
		(A=M/#27757)									
12	1	26716-080002	NUT, M8	1	1						
13	1	26756-120002	NUT, LOCK M12	2	2						
14	1	933170-01490	SPRING	2	2						

Fig.7. ENGINE MOUNT

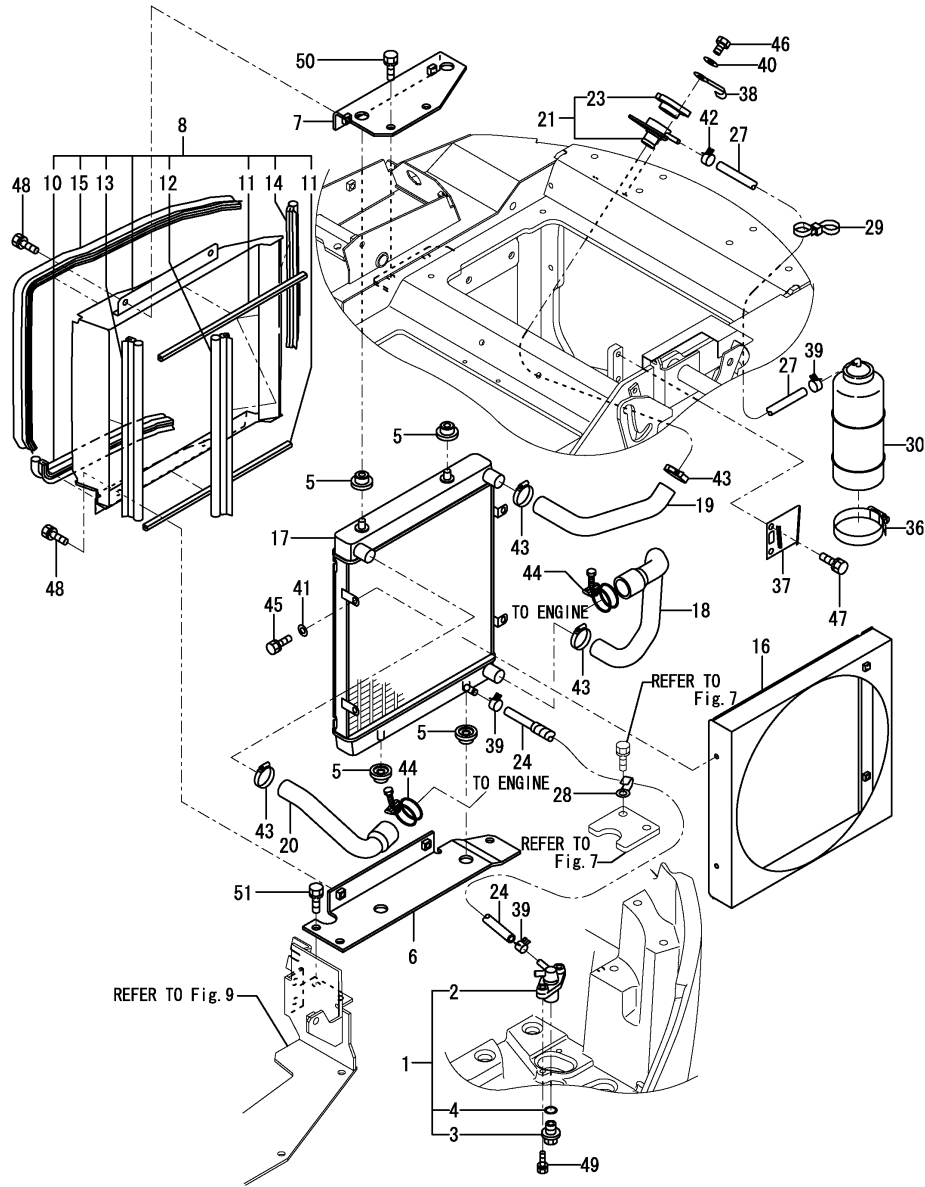


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A55-13100	MOUNT,ENGINE	1	1						
2	1	172A55-13150	MOUNT,ENGINE	2	2						
3	1	172157-13150	PLATE, STOPPER	1	1						
4	1	172448-13210	PLATE A,ENGINE	2	2						
5	1	172448-13220	PLATE B,ENGINE	1	1						
6	1	172448-13231	PLATE C ASSY	1	1						
7	1	172183-13250	STOPPER, ENGINE	1	1						
7-1	1	172183-13250-2	STOPPER, ENGINE	1	1						S
		(A=M/#28166) (B=M/#28166)									
8	1	172448-13260	PLATE E,ENGINE	1	1						
9	1	172448-13300	ABSORBER,SHOCK	4	4						
10	1	172A55-13700	BLOCK ASSY, DRAIN	1	1						
11	1	22137-100000	WASHER, 10	16	16						
12	1	22217-100000	WASHER, SPRING 10	8	8						
13	1	26013-100202	BOLT, M10X 20	2	2						
14	1	26013-100252	BOLT, M10X 25	4	4						
15	1	26013-100252	BOLT, M10X 25	2	2						
16	1	26013-100252	BOLT, M10X 25	2	2						
17	1	26013-100252	BOLT, M10X 25	2	2						
18	1	26013-100252	BOLT, M10X 25	2	2						
19	1	26013-100252	BOLT, M10X 25	8	8						
20	1	26013-100252	BOLT, M10X 25	8	8						
21	1	26013-100252	BOLT, M10X 25	2	2						
22	1	26716-100002	NUT, M10	8	8						
23	1	105425-01690	PLUG, 16	1	1						
24	1	22190-160002	WASHER, SEAL 16	1	1						

Fig.8. RADIATOR & MOUNT



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

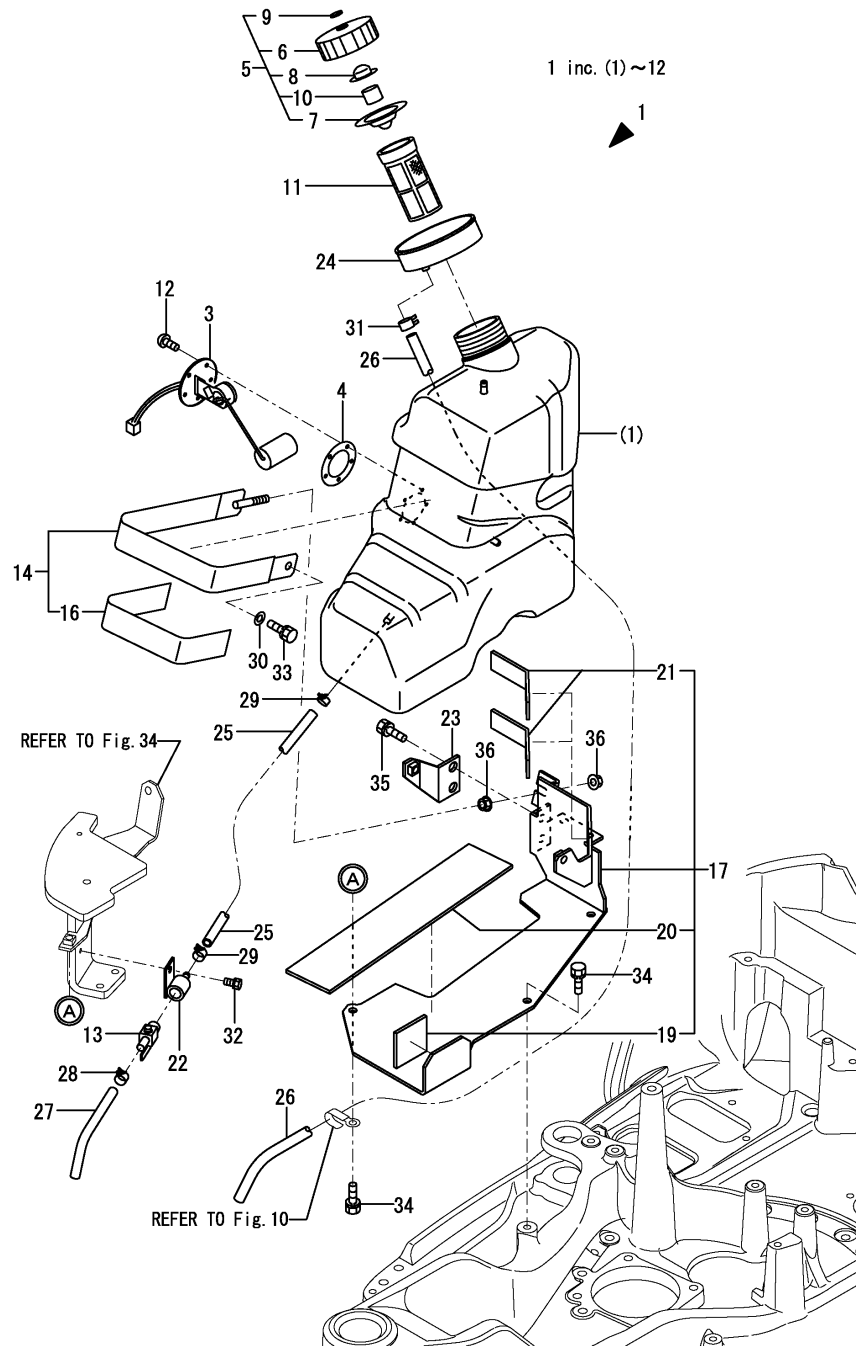
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-13210	COCK ASSY, 2-WAY	1	1						
2	2	172444-13220	BODY	1	1						
3	2	121250-49121	PLUG, DRAIN	1	1						
4	2	24311-000160	O-RING, 1AP16.0	1	1						
5	1	172446-13330	ABSOBER, SHOCK	4	4						
6	1	172A55-13340	BRACKET ASSY, LOWER	1	1						
7	1	172A55-13370	BRACKET ASSY, UP	1	1						
8	1	172A55-13401	DUCT ASSY	1	1						
10	2	172162-15310	SEAL	1	1						
11	2	172183-45700	RUBBER, SUPPORT EDGE	2	2						
12	2	172448-65590	RUBBER, SEAL 330	1	1						
13	2	172444-65680	RUBBER, SEAL	1	1						
14	2	172168-65790	RUBBER, SEAL	1	1						
15	2	172989-68630	RUBBER, SEAL	1	1						
16	1	172448-13400	SHROUD ASSY	1	1						
17	1	172448-13500	RADIATOR	1	1						
18	1	172448-13510	PIPE, WATER	1	1						
19	1	172448-13520	PIPE, WATER	1	1						
20	1	172A55-13530	PIPE, WATER	1	1						
20-1	1	172A55-13531	PIPE, WATER	1	1						R
		(A=M/#27545) (B=M/#27545)									
21	1	172448-13540	FILLER	1	1						
23	2	172448-13560	CAP ASSY	1	1						1
24	1	172187-14430	HOSE	1	1						
27	1	172183-14640	HOSE	1	1						
28	1	172126-16540	CLAMP	1	1						
29	1	172137-16560	BAND	1	1						
30	1	119813-44510	TANK ASSY	1	1						
36	1	124450-44550	BAND	1	1						
37	1	121256-44600	BRACKET, SUB TANK	1	1						
38	1	1A1686-57850	CLAMP, 80	1	1						
39	1	124766-59050	CLIP, HOSE 12	3	3						
40	1	22137-060000	WASHER, 6	2	2						
41	1	22137-060000	WASHER, 6	4	4						
42	1	23000-013000	CLAMP, 13	1	1						
43	1	23001-025000	CLAMP, HOSE 25	4	4						
44	1	23010-038000	CLAMP, 38	2	2						
45	1	26013-060122	BOLT, M6X 12	4	4						
46	1	26013-060162	BOLT, M6X 16	2	2						
47	1	26013-080162	BOLT, M8X 16	2	2						
48	1	26013-080162	BOLT, M8X 16	4	4						
49	1	26013-080402	BOLT, M8X 40	2	2						
50	1	26013-100202	BOLT, M10X 20	2	2						
51	1	26013-100202	BOLT, M10X 20	3	3						
52A	1	172462-03320	LABEL	1	1						2

Remarks

- (1) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.52A.
- (2) LABELS ARE NOT ILLUSTRATED.

Fig.9. FUEL TANK



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

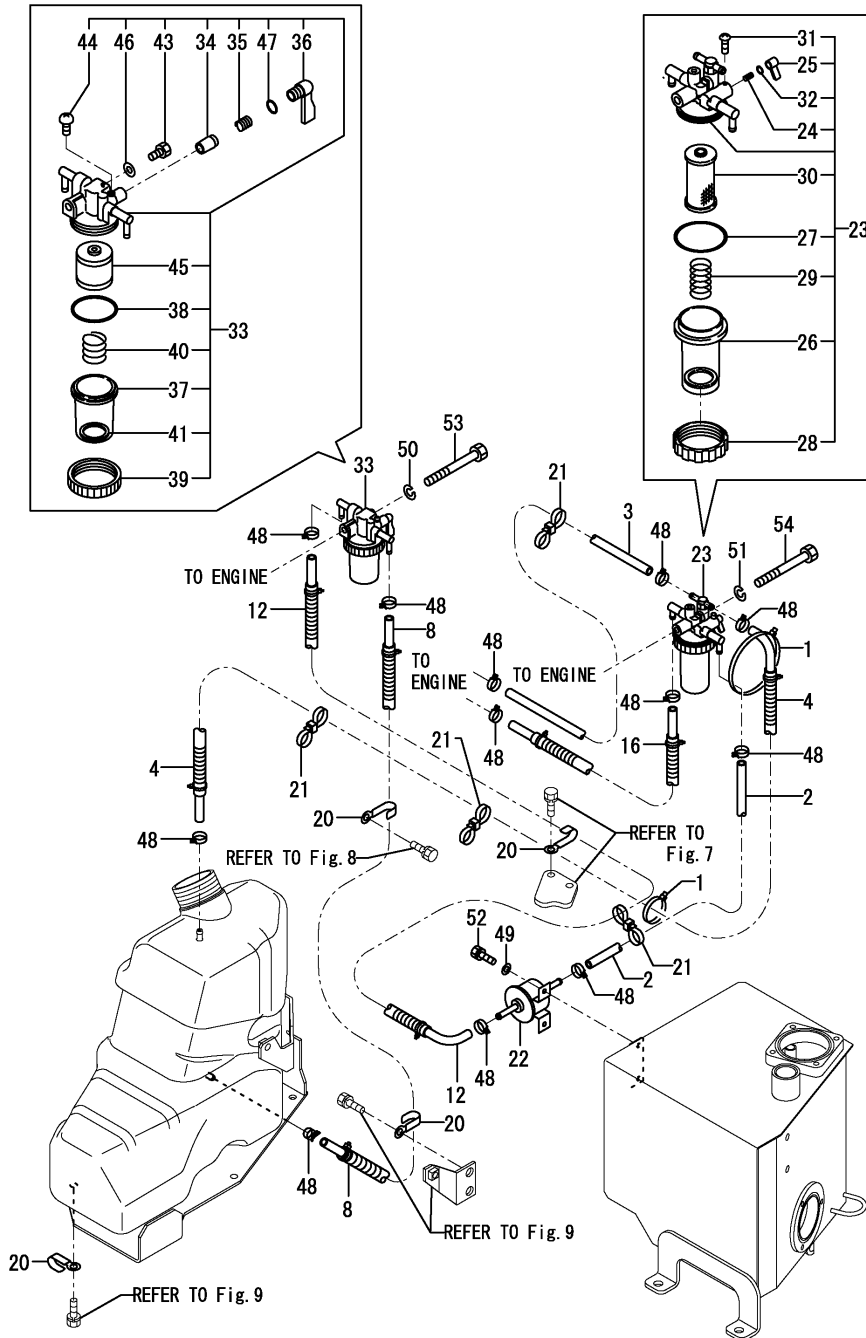
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772448-14100	TANK ASSY, FUEL	1	1						
3	2	172456-14151	GAUGE, FUEL	1	1						
4	2	172162-14200	GASKET	1	1						
5	2	172444-14200	CAP, FUEL	1	1						
6	3	172444-14450	CAP	1	1						
7	3	172444-14460	GASKET	1	1						
8	3	172444-14470	GASKET	1	1						
9	3	172444-14480	WASHER	1	1						
10	3	172444-14490	SPONGE	1	1						
11	2	172183-14250	FILTER (FUEL	1	1						
12	2	26557-050122	SCREW, M5X12	5	5						
13	1	104200-11920	COCK, WATER	1	1						
14	1	172448-14150	CLAMP ASSY, FUEL	1	1						
16	2	172448-14180	RUBBER, CLAMP	1	1						
17	1	172A55-14200	MOUNT ASSY,FUEL TANK	1	1						
19	2	172446-14250	RUBBER PLATE	1	1						
20	2	172448-14300	RUBBER PLATE A	1	1						
21	2	172458-14380	RUBBER PLATE D,FO	2	2						
22	1	172444-14270	JOINT, DRAIN	1	1						
23	1	172448-14340	BRACKET ASSY,COVER	1	1						
24	1	172458-14370	SUMP, FUEL	1	1						
25	1	172444-14410	HOSE	1	1						
26	1	172458-14510	HOSE 9.5 X 750	1	1						
27	1	172448-14690	HOSE,FUEL 85	1	1						
28	1	106990-44660	CLIP, HOSE 12.5	1	1						
29	1	124766-59050	CLIP, HOSE 12	2	2						
30	1	22137-100000	WASHER, 10	1	1						
31	1	23080-013000	CLAMP, 13	1	1						
32	1	26013-080202	BOLT, M8X 20	1	1						
33	1	26013-100202	BOLT, M10X 20	1	1						
34	1	26013-100202	BOLT, M10X 20	3	3						
35	1	26013-100202	BOLT, M10X 20	2	2						
36	1	26367-100002	NUT, M10	2	2						

Fig.10. FUEL LINE

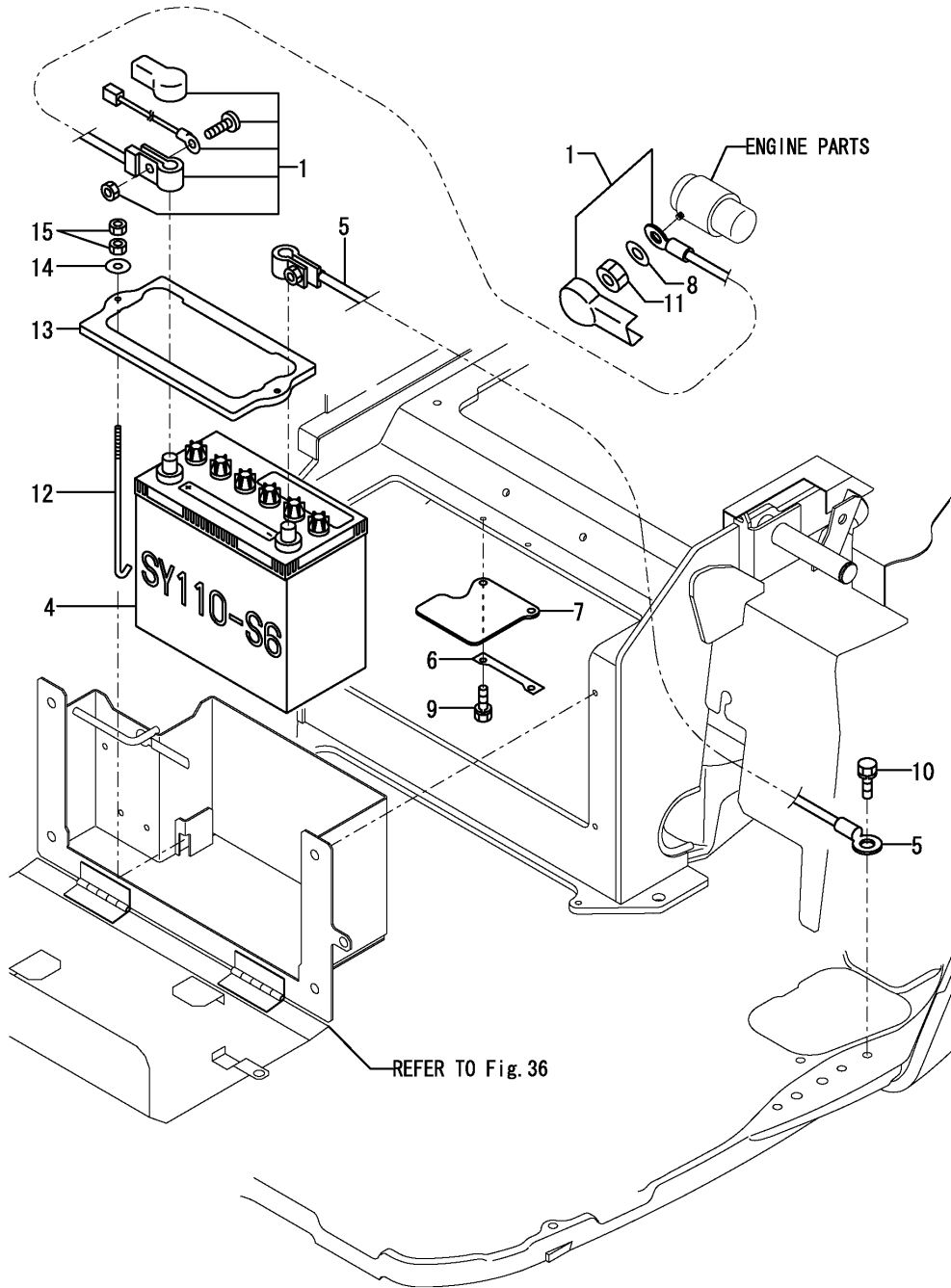
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND 300	2	2						
2	1	172171-13461	HOSE 7.5X13	1	1						
3	1	172122-14610	PIPE, FUEL	1	1						
4	1	172448-14610	HOSE 1350 ,FUEL	1	1						
8	1	172448-14630	HOSE 1100 ,FUEL	1	1						
12	1	172448-14650	HOSE 1600 ,FUEL	1	1						
16	1	172448-14670	HOSE 400 ,FUEL	1	1						
20	1	172126-16540	CLAMP	4	4						
21	1	172137-16560	BAND	4	4						
22	1	119225-52102	PUMP ASSY, FUEL FEED	1	1						
23	1	119833-55620	FILTER ASSY, FUEL	1	1						
24	2	104200-55330	SPRING, VALVE	1	1						
25	2	119810-55340	LEVER	1	1						
26	2	121254-55510	COVER	1	1						
27	2	102103-55520	O-RING	1	1						
28	2	110250-55610	RING, RETAINING	1	1						
29	2	121250-55620	SPRING	1	1						
30	2	119810-55650	ELEMENT	1	1						
31	2	104200-55750	SCREW, M4	1	1						
32	2	24311-240100	O-RING, 1AP10A	1	1						
33	1	129335-55700	SEPARATOR ASSY,WATER	1	1						
34	2	104200-55321	VALVE, TAPER	1	1						
35	2	104200-55330	SPRING, VALVE	1	1						
36	2	104200-55341	HANDLE	1	1						
37	2	124064-55510	COVER	1	1						
38	2	102103-55520	O-RING	1	1						
39	2	110250-55610	RING, RETAINING	1	1						
40	2	121257-55720	SPRING	1	1						
41	2	121257-55731	FLOAT	1	1						
43	2	101720-55750	PLUG, 6	2	2						
44	2	104200-55750	SCREW, M4	1	1						
45	2	171081-55910	SCREEN	1	1						
46	2	23418-060000	GASKET, 6X1.0	2	2						
47	2	24311-240100	O-RING, 1AP10A	1	1						
48	1	124766-59050	CLIP, HOSE 12	12	12						
49	1	22137-060000	WASHER, 6	2	2						
50	1	22217-080000	WASHER, SPRING 8	1	1						
51	1	22217-080000	WASHER, SPRING 8	1	1						
52	1	26013-060202	BOLT, M6X 20	2	2						
53	1	26116-080652	BOLT, M8X 65 PLATED	1	1						
54	1	26116-080652	BOLT, M8X 65 PLATED	1	1						

Fig.11. BATTERY



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

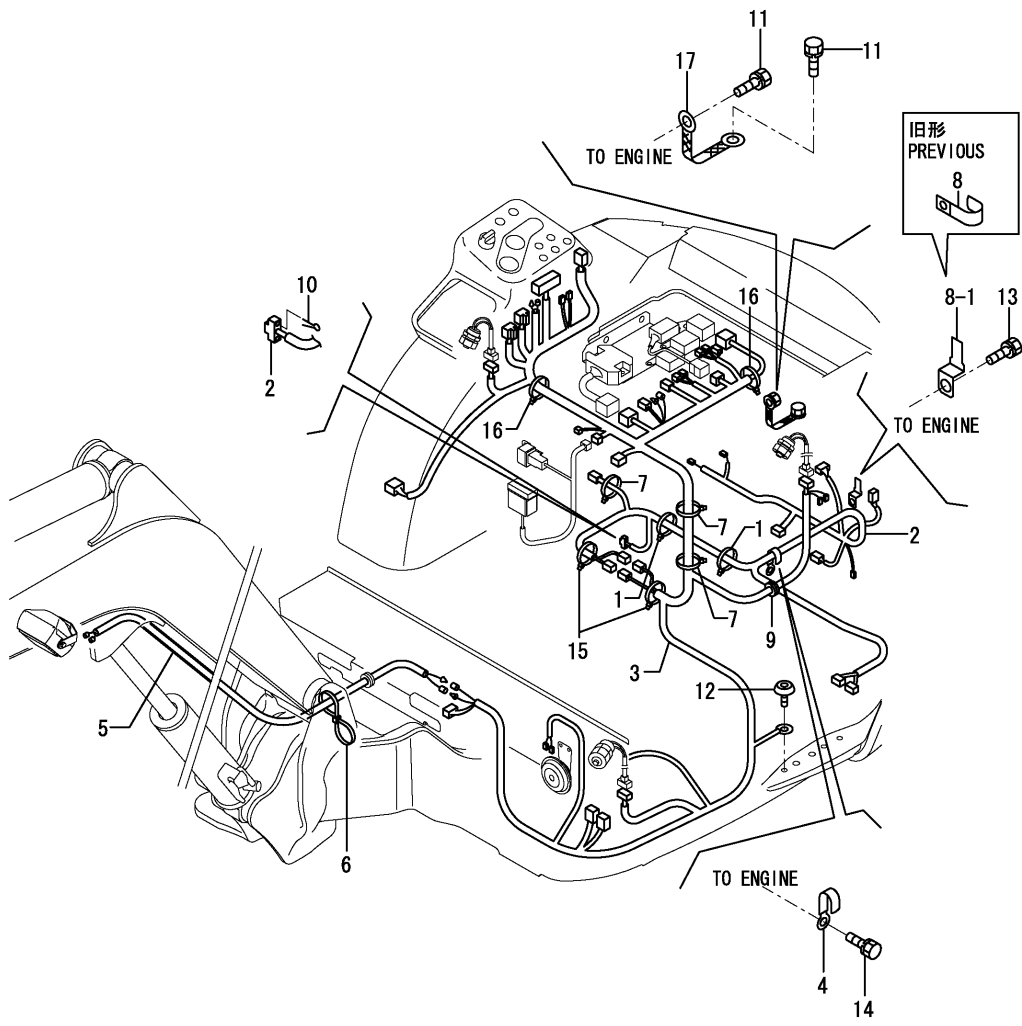
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A55-16100	CORD ASSY,BATTERY (+	1	1						
4	1	172175-16110	BATTERY	1	1						
5	1	172448-16130	HARNES,BAT. MINUS	1	1						
6	1	172448-16150	PLATE,BATTERY	1	1						
7	1	172448-16160	COVER, BATTERY	1	1						
8	1	22137-080000	WASHER, 8	1	1						
9	1	26013-060122	BOLT, M6X 12	2	2						
10	1	26013-100202	BOLT, M10X 20	1	1						
11	1	26716-080002	NUT, M8	1	1						
12	1	172631-16350	ROD,BATTERY CLAMP	2	2						
13	1	194940-64750	CLAMP, BATTERY	1	1						
14	1	22157-060000	WASHER, 6	2	2						
15	1	26716-060002	NUT, M6	4	4						

Fig.12. ELECTRIC PART(WIRING)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

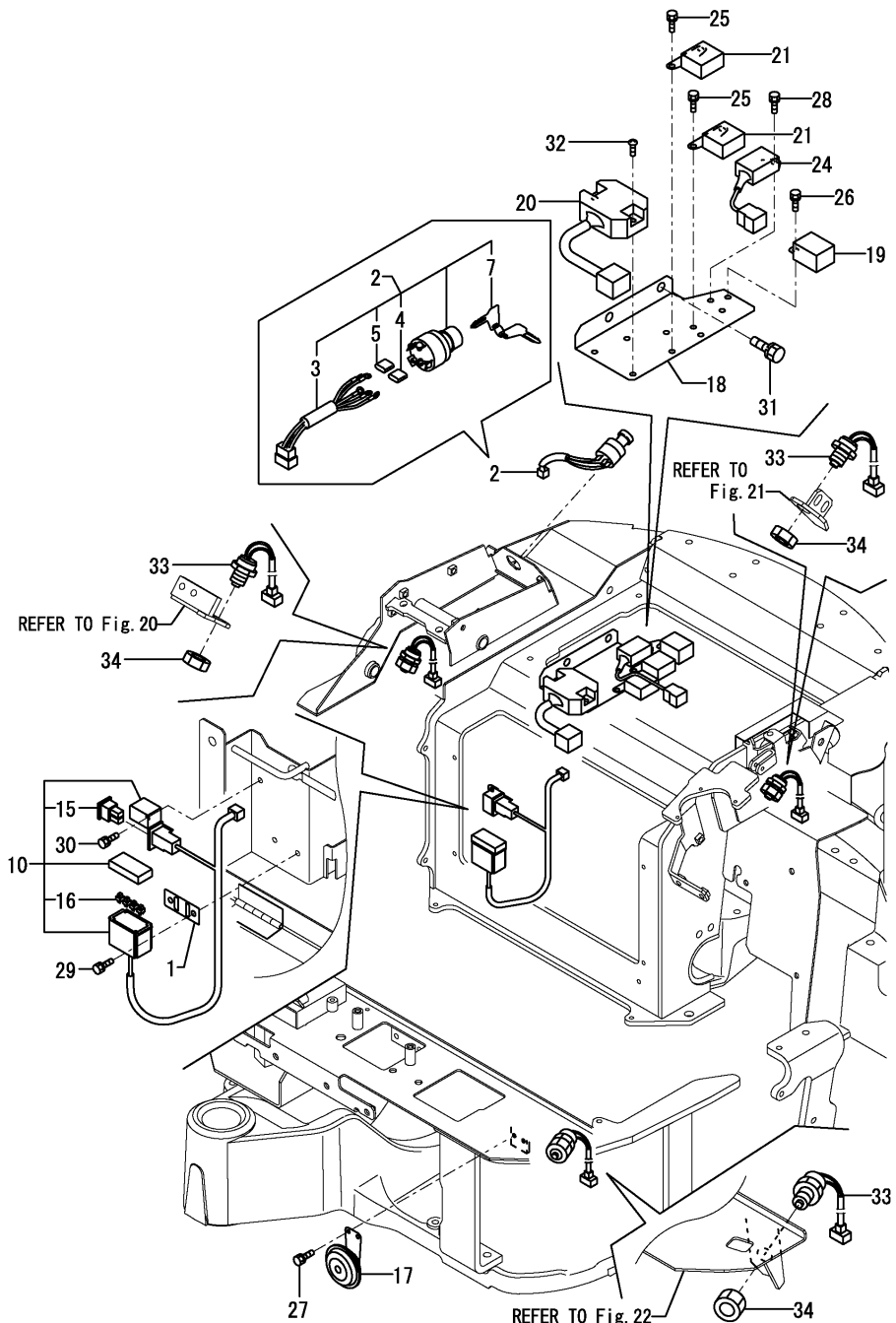
(D)=  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND 300	2	2						
2	1	172A55-16500	HARNESS A ASSY	1	1						
2-1	1	172A55-16501	HARNESS A ASSY	1	1						N
				(A=M/#27551) (B=M/#27551)							
3	1	172A55-16520	HARNESS ASSY, B	1	1						
4	1	172126-16540	CLAMP	1	1						
5	1	172448-16550	HARNESS,BOOM LAMP	1	1						
6	1	172137-16560	BAND	1	1						
7	1	194202-56460	BAND, 200	3	3						
8	1	1A1380-59480	CLAMP, CORD	1	1						
8-1	1	172460-16700	STAY	1	1						F 1
				(A=M/#27551) (B=M/#27551)							
9	1	172162-61850	GROMMET	1	1						
10	1	22417-200250	PIN, COTTER 2.0X25	1	1						
11	1	26013-100162	BOLT, M10X 16	2	2						
12	1	172455-61720	BOLT M 10X20	1	1						
13	1	26013-100162	BOLT, M10X 16	1	1						
14	1	26013-100162	BOLT, M10X 16	1	1						
15	1	933168-55770	BAND 146	3	3						
16	1	933168-55770	BAND 146	2	2						
17	1	933171-15801	CORD, ENGINE EARTH	1	1						

Remarks  
 (1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.2-1.

Fig.13. ELECTRIC PART(EQUIPMENT)



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

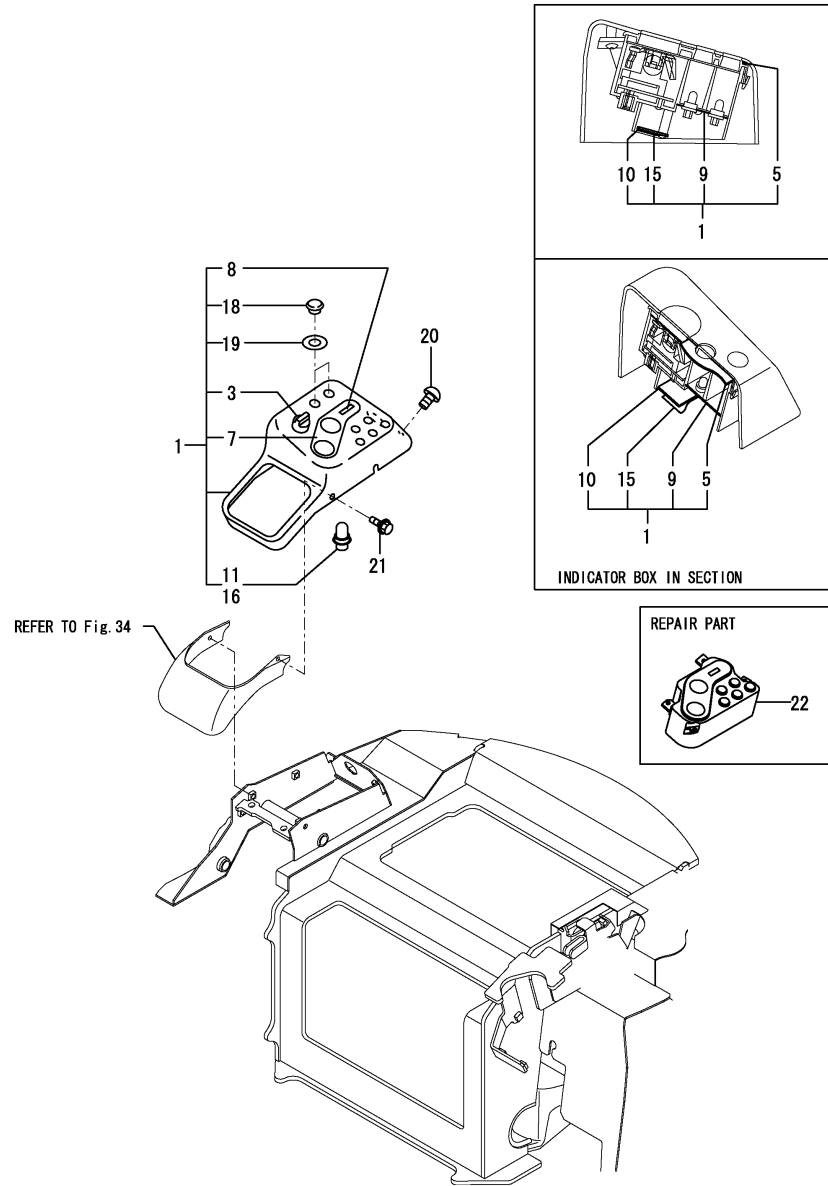
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-16550	BRACKET,FUSE	1	1						
2	1	172187-17100	SWITCH ASSY, STARTER	1	1						
3	2	172187-17070	CORD ASSY	1	1						
4	2	172187-17080	COVER	3	3						
5	2	172187-17090	COVER	2	2						
7	2	933110-00301	KEY ASSY	1	1						
10	1	172448-17200	FUSE	1	1						
15	2	172447-17150	FUSE 40A	1	1						
16	2	29420-150000	FUSE, B 15A	4	4						
17	1	194151-57100	HORN	1	1						
18	1	172448-64810	BRACKET,ELECTRIC	1	1						
19	1	119247-77100	RELAY, SAFETY	1	1						
20	1	119653-77710	LIMITER, CURRENT	1	1						
21	1	119650-77910	RELAY ASSY, GLOW	2	2						
24	1	129211-77920	TIMER	1	1						
25	1	26013-060162	BOLT, M6X 16	4	4						
26	1	26013-060162	BOLT, M6X 16	1	1						
27	1	26013-060162	BOLT, M6X 16	2	2						
28	1	26013-060162	BOLT, M6X 16	1	1						
29	1	26013-060162	BOLT, M6X 16	2	2						
30	1	26013-060162	BOLT, M6X 16	1	1						
31	1	26013-100202	BOLT, M10X 20	2	2						
32	1	26022-060252	SCREW, M6X25	2	2						
33	1	194464-52190	SWITCH, SAFETY START	3	3						
34	1	26776-180002	NUT, LOCK M18	3	3						



Fig.14. ELECTRIC PART(INDICATOR BOX)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

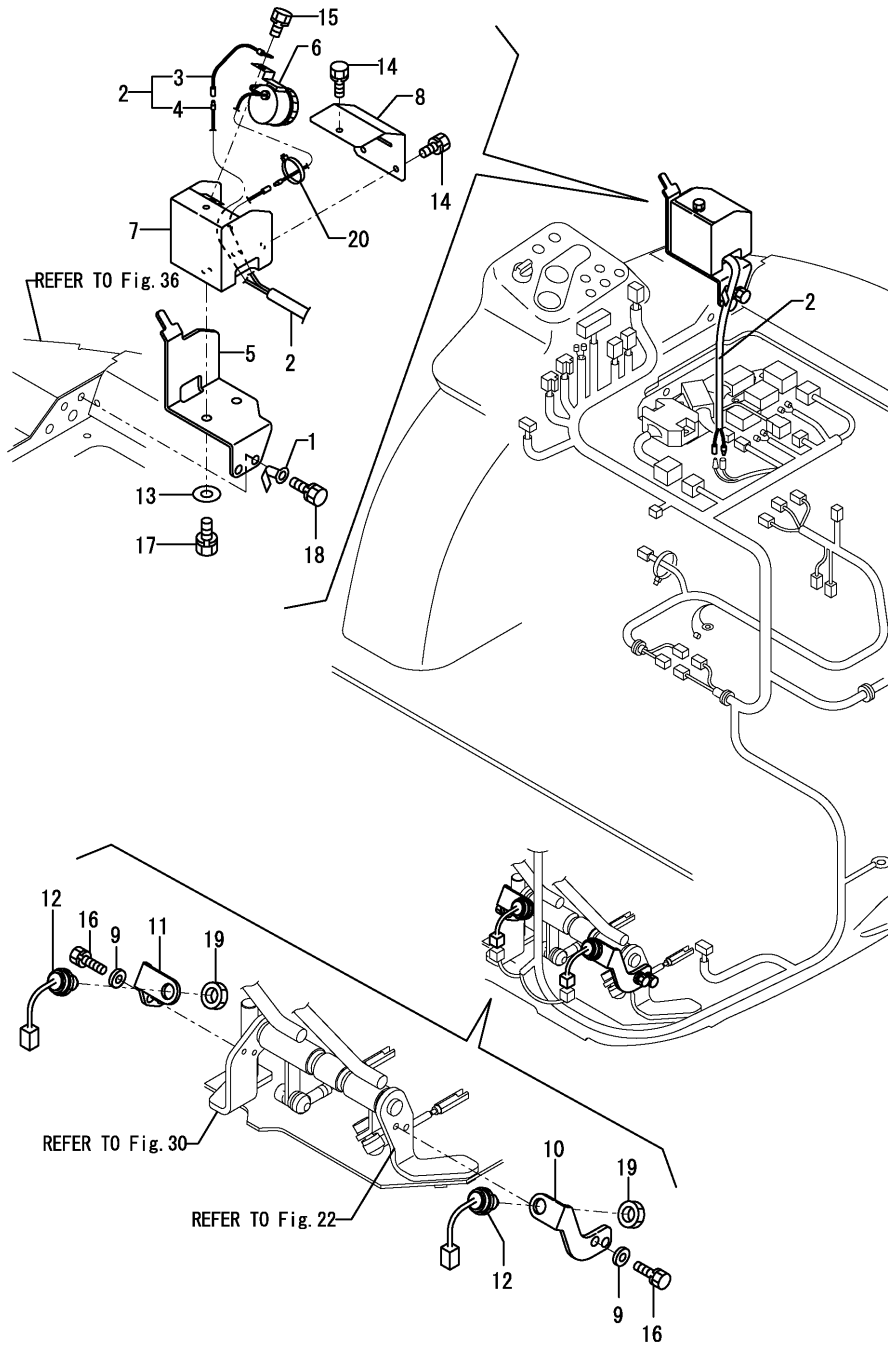


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-17501	BOX,INDICATOR(CANOPY	1	1						1
3	2	172187-17280	SWITCH ASSY, LIGHT	1	1						
5	2	172187-17320	PACKING	1	1						
7	2	172187-17341	GAUGE ASSY	1	1						
8	2	172187-17350	METER ASSY, HOUR	1	1						
9	2	172187-17360	PRINT,CIRCUIT	1	1						
10	2	172187-17371	CIRCUIT ASSY	1	1						
11	2	172187-17380	BULB	4	4						
15	2	172187-17470	PLATE	1	1						
16	2	172187-17480	BULB	2	2						
18	2	172187-17560	CAP	2	2						
19	2	172187-17570	GASKET	2	2						
20	1	172458-46720	BOLT 8X20	1	1						
21	1	172519-63240	BOLT	3	3						
22	1	172A77-17500	MONITOR ASSY	1	1						W 2

(A=MZZZZZ) (B=MZZZZZ)

Remarks  
 (1)HOUR METER = ANALOG TYPE.  
 ONLY THE MONITOR PORT COPIES IN  
 REF.NO.22.  
 (2)HOUR METER = L.C.D. TYPE.

Fig.15. TRAVEL ALARM



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

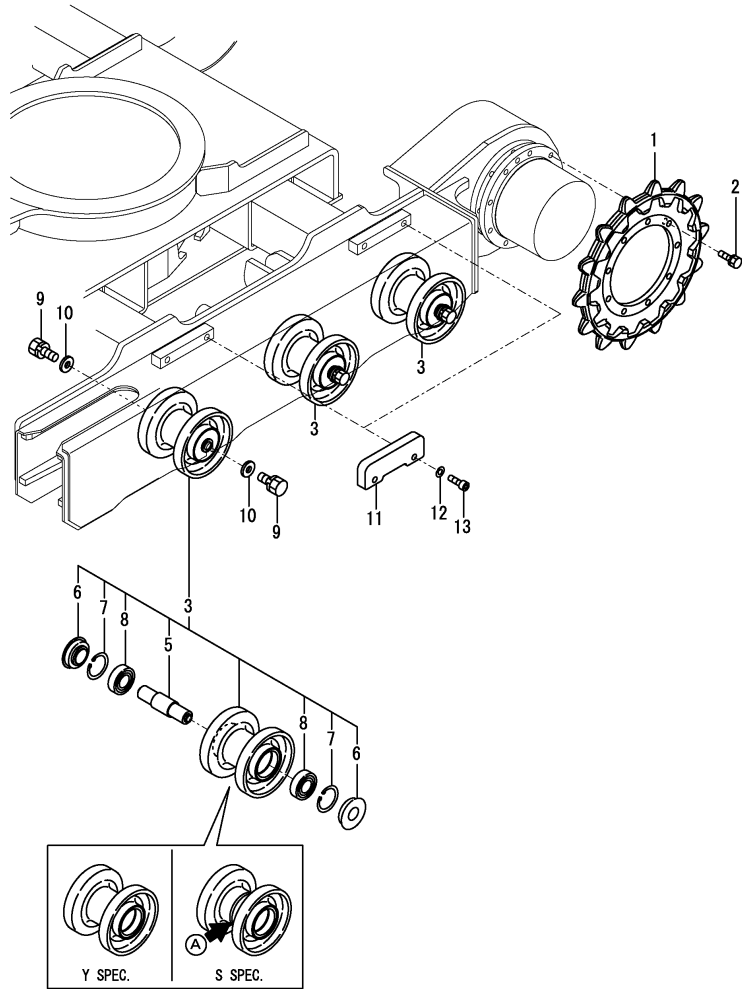
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-16540	CLAMP	1	1						
2	1	172448-16600	HARNESS D CMP	1	1						
3	2	172478-16580	HARNESS,ALARM	1	1						
4	2	172448-16590	HARNESS,D	1	1						
5	1	172448-17210	BRACKET(ALARM	1	1						
6	1	172511-17351	BUZZER, BACK	1	1						
7	1	172472-17400	CASE ASSY, ALARM	1	1						
8	1	172472-17470	COVER, ALARM CASE	1	1						
9	1	172157-45840	WASHER 8X18X4	4	4						
10	1	172448-45880	STAY	1	1						
11	1	172448-45890	STAY	1	1						
12	1	194464-52190	SWITCH, SAFETY START	2	2						
13	1	22137-100000	WASHER, 10	2	2						
14	1	26013-060122	BOLT, M6X 12	3	3						
15	1	26013-080122	BOLT, M8X 12	1	1						
16	1	26013-080252	BOLT, M8X 25	4	4						
17	1	26013-100252	BOLT, M10X 25	2	2						
18	1	26013-100252	BOLT, M10X 25	2	2						
19	1	26776-180002	NUT, LOCK M18	2	2						
20	1	933168-55770	BAND 146	1	1						



Fig.17. SPROCKET & TRACK ROLLER(Y SPEC.)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



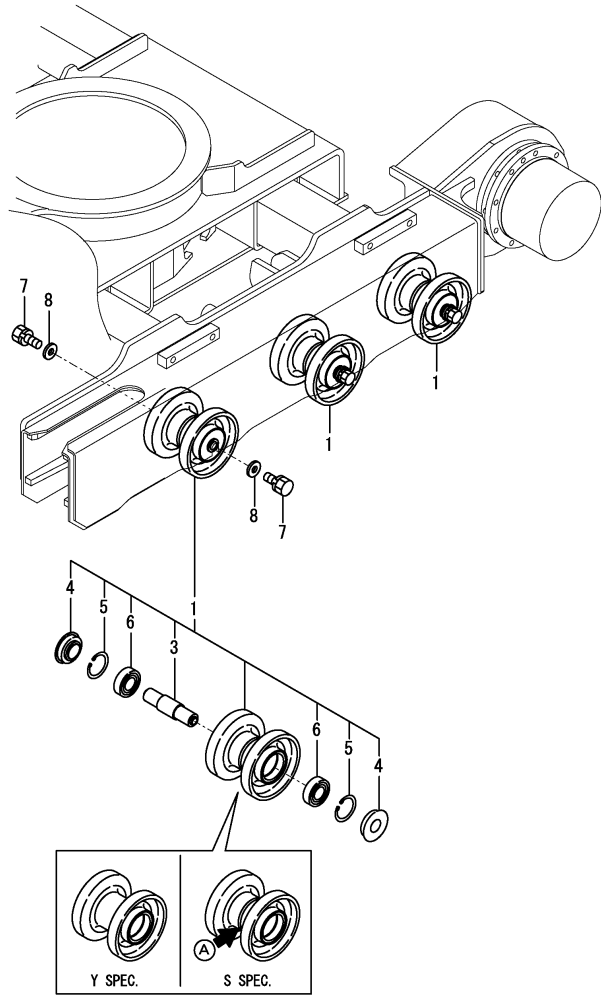
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-29100-1	SPROCKET	2	2						
1-1	1	172448-29100-2	SPROCKET	2	2						S
		(A=M/#28166) (B=M/#28166)									
2	1	26013-100252	BOLT, SPRING M10X 25	18	18						
3	1	772448-37300-1	ROLLER ASSY, TRACK	6	6						
3-1	1	772448-37300-2	ROLLER ASSY, TRACK	6	6						S
		(A=M/#28166) (B=M/#28166)									
3-2	2	772A64-37300-2	ROLLER ASSY, TRACK	6	6						R
		(A=*2007.04.) (B=*2007.04.)									
3-3	1	772A64-37300-2	ROLLER ASSY, TRACK	6	6						Z 1
		(A=*2014.04.) (B=*2014.04.)									
5	2	172448-37310	SHAFT, ROLLER	6	6						
6	2	1E6140-73420	SEAL, OIL 25X52X18	12	12						
7	2	22252-000520	RING, 52	12	12						
8	2	24101-062054	BEARING, BALL 6205	12	12						
9	1	26013-120252	BOLT, SPRING M12X 25	12	12						
10	1	933152-03700	WASHER, CLUTCH	12	12						
11	1	172448-37500-1	PLATE, SHOE	4	4						
11-1	1	172448-37500-2	PLATE, SHOE	4	4						S
		(A=M/#28166) (B=M/#28166)									
12	1	22217-100000	WASHER, SPRING 10	8	8						
13	1	26450-100352	BOLT, M10X 35	8	8						

Remarks

(1)Compatibility by assembly exchange with parts of Fig.77(17A) No.1.  
 The inner parts are not compatible.

A : There is no welding in the Y specifications, and there is welding in the S specifications.

Fig.77. (17A)TRACK ROLLER(RUBBER CRAWLER SPEC.)(S SPEC.)



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

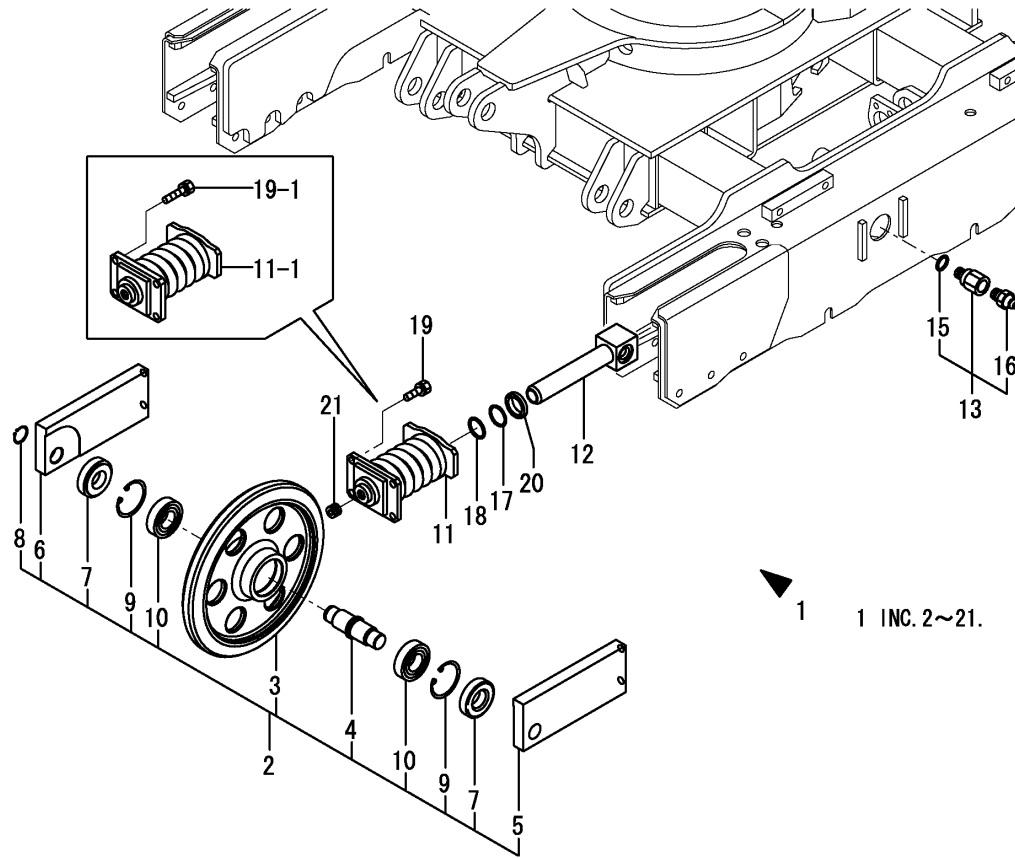
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A64-37400 (A=*2015.04) (B=*2015.04.)	ROLLER ASSY, LOWER	6	6						W
3	2	172A64-37420	SHAFT	6	6						
4	2	1E6140-73420	SEAL, OIL 25X52X18	12	12						
5	2	22252-000520	RING, 52	12	12						
6	2	24101-062054	BEARING, BALL 6205	12	12						
7	1	26013-120252	BOLT, M12X 25	12	12						
8	1	933152-03700	WASHER, CLUTCH	12	12						

Remarks

\* A : There is no welding in the Y specifications, and there is welding in the S specifications.  
 \* Track roller (Y specification) are shown in Fig.17.  
 The inner parts are not compatible.

Fig.18. IDLER & CRAWLER ADJUST



(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

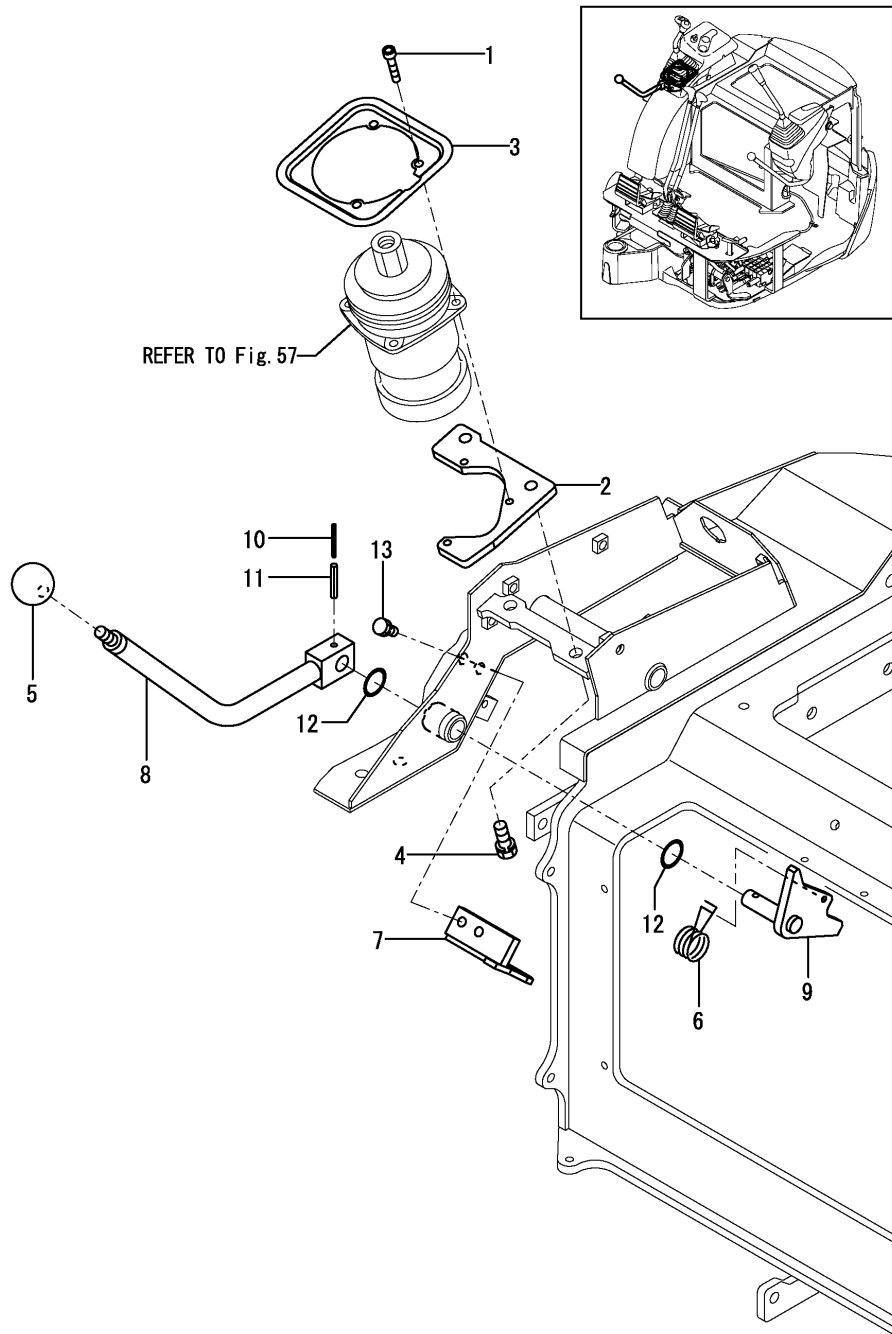
(D)=  
(E)=  
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772448-37120-2	IDLER ASSY, RUBBER	2	2						
1-1	1	772448-37120-1	IDLER ASSY, RUBBER	2	2						S
		(A=M/#28166) (B=M/#28166)									
2	2	772448-37100-1	IDLER ASSY, RUBBER	2	2						
2-1	2	772448-37100-2	IDLER ASSY, RUBBER	2	2						S
		(A=M/#28166) (B=M/#28166)									
3	3	172448-37100-1	IDLER ASSY	2	2						
3-1	3	172448-37100-2	IDLER ASSY	2	2						S
		(A=M/#28166) (B=M/#28166)									
4	3	172448-37110	SHAFT, IDLER	2	2						
5	3	172448-37130-1	FORK, IDLER L(GREEN82)	2	2						
5-1	3	172448-37130-2	FORK, IDLER L(GRAY:49)	2	2						S
		(A=M/#28166) (B=M/#28166)									
6	3	172448-37140-1	FORK, IDLER R(GREEN82)	2	2						
6-1	3	172448-37140-2	FORK, IDLER R(GRAY:49)	2	2						S
		(A=M/#28166) (B=M/#28166)									
7	3	1A1060-48300	SEAL, QLN30X62X13.2	4	4						
8	3	22242-000250	RING, 25	2	2						
9	3	22252-000620	RING, 62	4	4						
10	3	24101-062064	BEARING, BALL 6206	4	4						
11	2	172448-37710	SPRING ASSY, ADJUST	2	2						
11-1	2	172448-37711	SPRING ASSY, ADJUST	2	2						N
		(A=M/#28301) (B=M/#28301)									
12	2	172448-37800	TUBE ASSY, ADJUST	2	2						
13	2	172122-37844	VALVE ASSY, NIPPLE	2	2						
15	3	24315-000140	O-RING, 1BP14.0	2	2						
16	3	24761-020000	NIPPLE, GREASE PT1/8	2	2						
17	2	172137-37850	RING, BACK UP	2	2						
18	2	24315-000300	O-RING, 1BP30.0	2	2						
19	2	26013-100302	BOLT, M10X 30	8	8						
19-1	2	26013-100352	BOLT, M10X 35	8	8						F 1
		(A=M/#28301) (B=M/#28301)									
20	2	933126-38600	SEAL, DUST	2	2						
21	2	933171-13691	PLUG PT1/8	2	2						

Remarks  
(1) INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.11-1.



Fig.20. CONTROL EQUIPMENT(LOCK LEVER & STAND)(RIGHT)



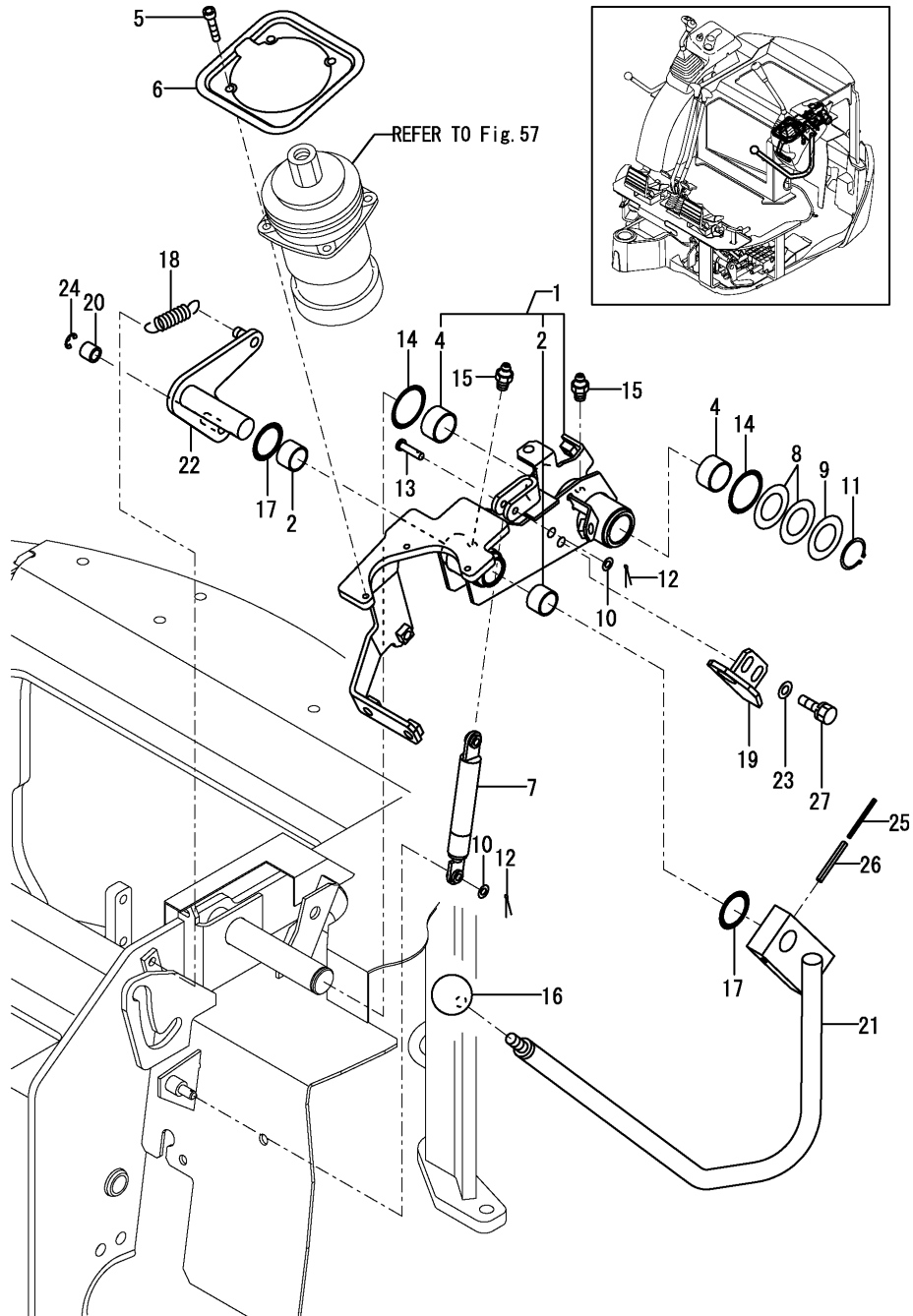
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-46730	BOLT N6X30	3	3						
2	1	172448-46790	PLATE R,REMOTE CON.	1	1						
3	1	172455-46941	PLATE R,BOOTS (73)	1	1						
4	1	26013-100202	BOLT, M10X 20	2	2						
5	1	1D4070-23580	GRIP	1	1						
6	1	172165-45970	SPRING	1	1						
7	1	172448-46960	BRACKET,SW	1	1						
8	1	172448-47680	LOCK LEVER R(GRAY:72)	1	1						
8-1	1	172448-47680-1	LOCK LEVER R(GRAY:49)	1	1						S
		(A=M/#28166)	(B=M/#28166)								
9	1	172448-47700	SHAFT ASSY, LEVER	1	1						
10	1	22351-030032	PIN, SPRING 3.0X32	1	1						
11	1	22351-050032	PIN, SPRING 5.0X32	1	1						
12	1	24311-000210	O-RING, 1AP21.0	2	2						
13	1	26013-080162	BOLT, M8X 16	2	2						



Fig.21. CONTROL EQUIPMENT(LOCK LEVER & STAND)(LEFT)

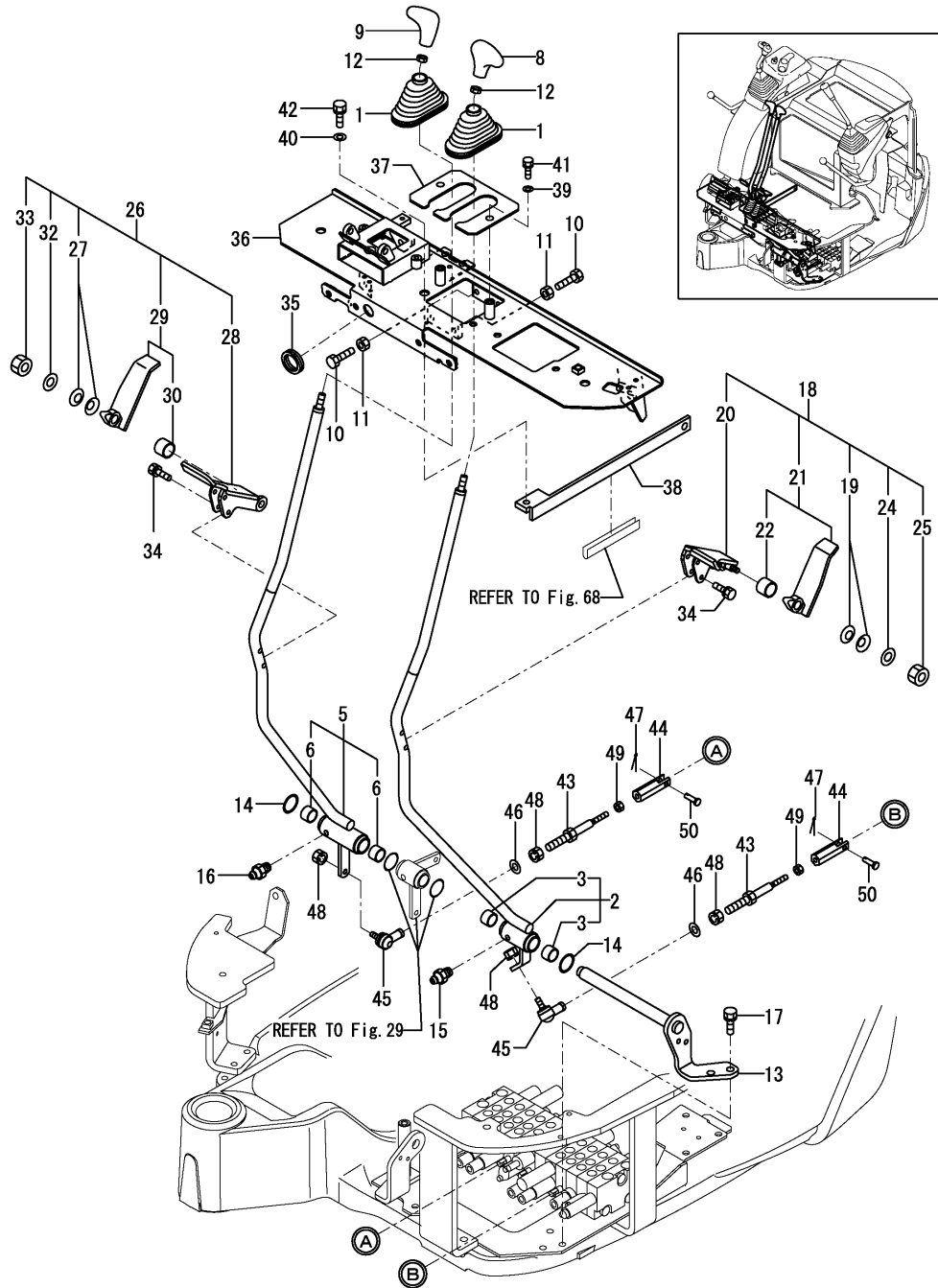


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-46600	STAND ASSY, LEVER	1	1						
2	2	172141-41370	BUSH 2015	2	2						
4	2	24550-025150	BUSH, 25X15	2	2						
5	1	172458-46730	BOLT N6X30	3	3						
6	1	172455-46901	PLATE L, BOOTS (73)	1	1						
7	1	172448-47900	SPRING, GAS GS044	1	1						
8	1	172165-47980	SHIM	2	2						
9	1	172165-47990	WASHER 25.5X42	1	1						
10	1	22137-060000	WASHER, 6	2	2						
11	1	22242-000250	RING, 25	1	1						
12	1	22417-160160	PIN, COTTER 1.6X16	2	2						
13	1	22487-060240	PIN, H 6X 24	1	1						
14	1	24311-000340	O-RING, 1AP34.0	2	2						
15	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
16	1	1D4070-23580	GRIP	1	1						
17	1	172124-46200	O-RING	2	2						
18	1	172162-46690	SPRING	1	1						
19	1	172448-46950	BRACKET, CUTOFF SW	1	1						
20	1	172165-47550	BUSH	1	1						
21	1	172448-47621	LEVER L, LOCK(GRAY:72)	1	1						
21-1	1	172448-47621-1	LEVER L, LOCK(GRAY:49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
22	1	172448-47650	SHAFT ASSY, LEVER	1	1						
23	1	22137-080000	WASHER, 8	2	2						
24	1	22272-000070	RING, E- 7	1	1						
25	1	22351-035050	PIN, SPRING 3.5X50	1	1						
26	1	22351-060050	PIN, SPRING 6.0X50	1	1						
27	1	26013-080202	BOLT, M8X 20	2	2						

Fig.22. CONTROL EQUIPMENT(TRAVEL LEVER & LINK STAND)

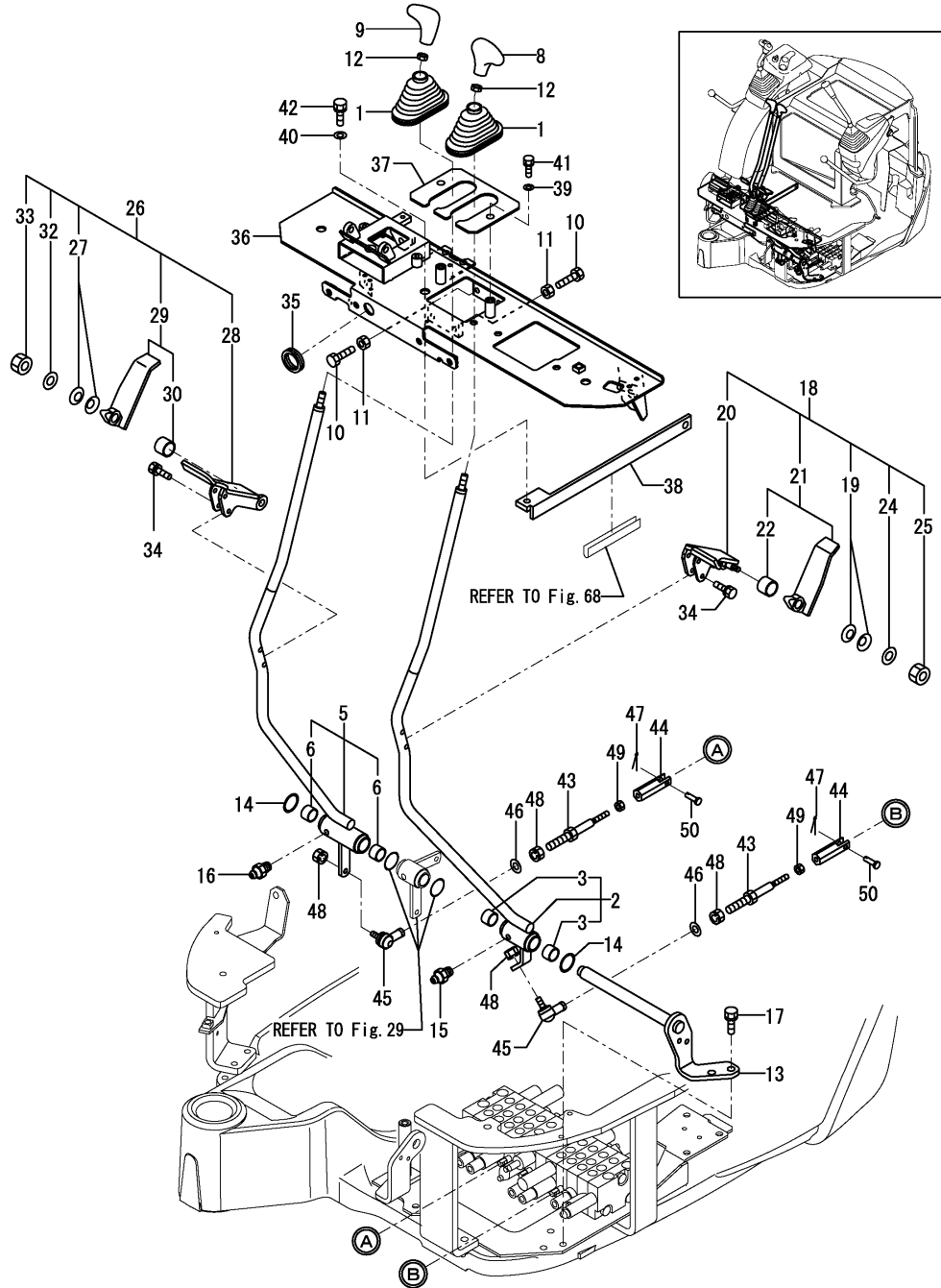


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOTS	2	2						
2	1	172448-45101	LEVER L,TRACK(GRAY72)	1	1						
2-1	1	172448-45101-1	LEVER L,TRACK(GRAY49)	1	1						S
3	2	(A=M/#28166) 172141-41370 (B=M/#28166)	BUSH 2015	2	2						
5	1	172448-45142	LEVER R,TRACK (72)	1	1						
5-1	1	172448-45142-1	LEVER R,TRACK(GRAY49)	1	1						S
6	2	(A=M/#28166) 172141-41370 (B=M/#28166)	BUSH 2015	2	2						
8	1	172164-45951	GRIP, DRIVE	1	1						
9	1	172164-45961	GRIP, DRIVE	1	1						
10	1	26116-100404	BOLT, M10X 40 PLATED	4	4						
11	1	26716-100002	NUT, M10	4	4						
12	1	26756-100002	NUT, LOCK M10	2	2						
13	1	172448-45570	SHAFT ASSY, TRACK	1	1						
14	1	172124-46200	O-RING	2	2						
15	1	24761-020000	NIPPLE, GREASE PT1/8	1	1						
16	1	24761-020000	NIPPLE, GREASE PT1/8	1	1						
17	1	26013-100252	BOLT, M10X 25	2	2						
18	1	172472-45601	PEDAL L, TRACK (72)	1	1						
18-1	1	172472-45601-1	PEDAL L,TRACK(GRAY49)	1	1						S
19	2	(A=M/#28166) 172068-28490 (B=M/#28166)	SPRING	2	2						
20	2	172472-45720	PEDAL FL ASSY, TRACK	1	1						
21	2	172472-45810	PEDAL RL,TRACK (72)	1	1						
21-1	2	172472-45810-1	PEDAL RL,TRACK (49)	1	1						S
22	3	(A=M/#28166) 172110-45050 (B=M/#28166)	BUSH 12X12	1	1						
24	2	22137-080000	WASHER, 8	1	1						
25	2	26347-080002	NUT, M8	1	1						
26	1	172472-45621	PEDAL R, TRACK (72)	1	1						
26-1	1	172472-45621-1	PEDAL R,TRACK(GRAY49)	1	1						S
27	2	(A=M/#28166) 172068-28490 (B=M/#28166)	SPRING	2	2						
28	2	172472-45730	PEDAL FR ASSY, TRACK	1	1						
29	2	172472-45850	PEDAL RR,TRACK (72)	1	1						
29-1	2	172472-45850-1	PEDAL RR,TRACK (49)	1	1						S
30	3	(A=M/#28166) 172110-45050 (B=M/#28166)	BUSH 12X12	1	1						
32	2	22137-080000	WASHER, 8	1	1						
33	2	26347-080002	NUT, M8	1	1						
34	1	26013-060302	BOLT, M6X 30	4	4						
35	1	172187-16560	GROMMET	1	1						
36	1	172448-45401	STAND, PEDAL	1	1						
36-1	1	172448-45401-1	STAND, PEDAL	1	1						S
37	1	(A=M/#28166) 172448-45510 (B=M/#28166)	PLATE,TRACK(BLACK:12)	1	1						
37-1	1	172448-45510-1	PLATE,TRACK(GRAY:49)	1	1						S
38	1	(A=M/#28166) 172448-45520 (B=M/#28166)	RIB,STEP	1	1						
39	1	22137-080000	WASHER, 8	2	2						

Fig.22. CONTROL EQUIPMENT(TRAVEL LEVER & LINK STAND)



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

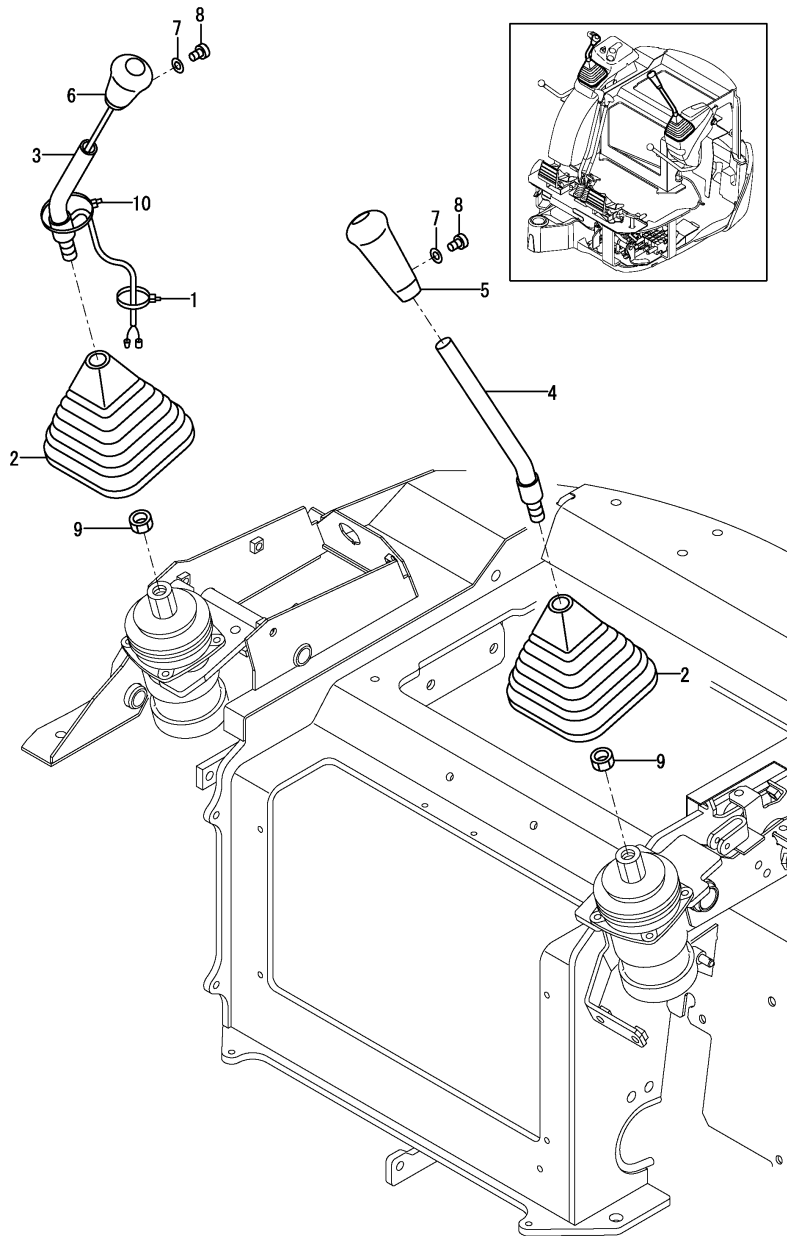
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
40	1	22137-100000	WASHER, 10	2	2						
41	1	26013-080162	BOLT, M8X 16	2	2						
42	1	26013-100202	BOLT, M10X 20	2	2						
43	1	172448-45260	ROD 90	2	2						
44	1	172448-45660	ROD,SPOOL	2	2						
45	1	172122-46590	ELBOW	2	2						
46	1	22117-080000	WASHER, 8	2	2						
47	1	22417-160160	PIN, COTTER 1.6X16	2	2						
48	1	26051-080002	NUT, M8	4	4						
49	1	26716-050002	NUT, M5	2	2						
50	1	933110-54100	PIN 4.75X14	2	2						

Fig.23. CONTROL EQUIPMENT(OPERATION LEVER)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



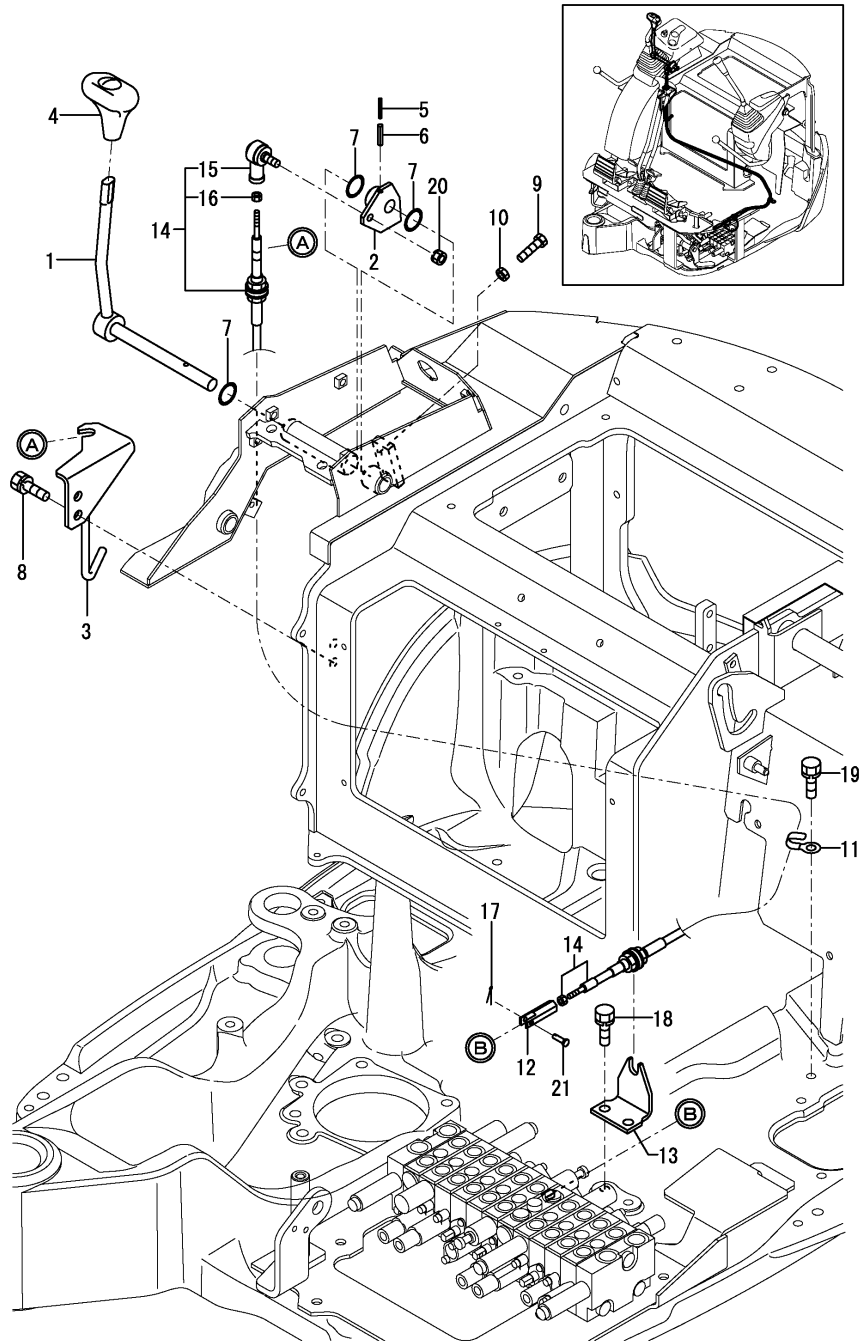
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-16560	CLIP, HOSE	1	1						
2	1	172151-45010	BOOT P,LEVER	2	2						
3	1	172448-45010	LEVER R (GRAY:72)	1	1						
3-1	1	172448-45010-1 (A=M/#28166) (B=M/#28166)	LEVER R (GRAY:49)	1	1						S
4	1	172448-45030	LEVER L (GRAY:72)	1	1						
4-1	1	172448-45030-1 (A=M/#28166) (B=M/#28166)	LEVER L (GRAY:49)	1	1						S
5	1	172165-45071	KNOB ASSY	1	1						
6	1	172165-47871	KNOB ASSY	1	1						1
7	1	22117-040000	WASHER, 4	2	2						
8	1	26587-040062	SCREW, M4X 6	2	2						
9	1	26776-140002	NUT, LOCK M14	2	2						
10	1	933168-55770	BAND 146	1	1						

Remarks  
 (1)A KNOB WITH A BUILT-IN HORN SWITCH.

Fig.24. CONTROL EQUIPMENT(BLADE LEVER)

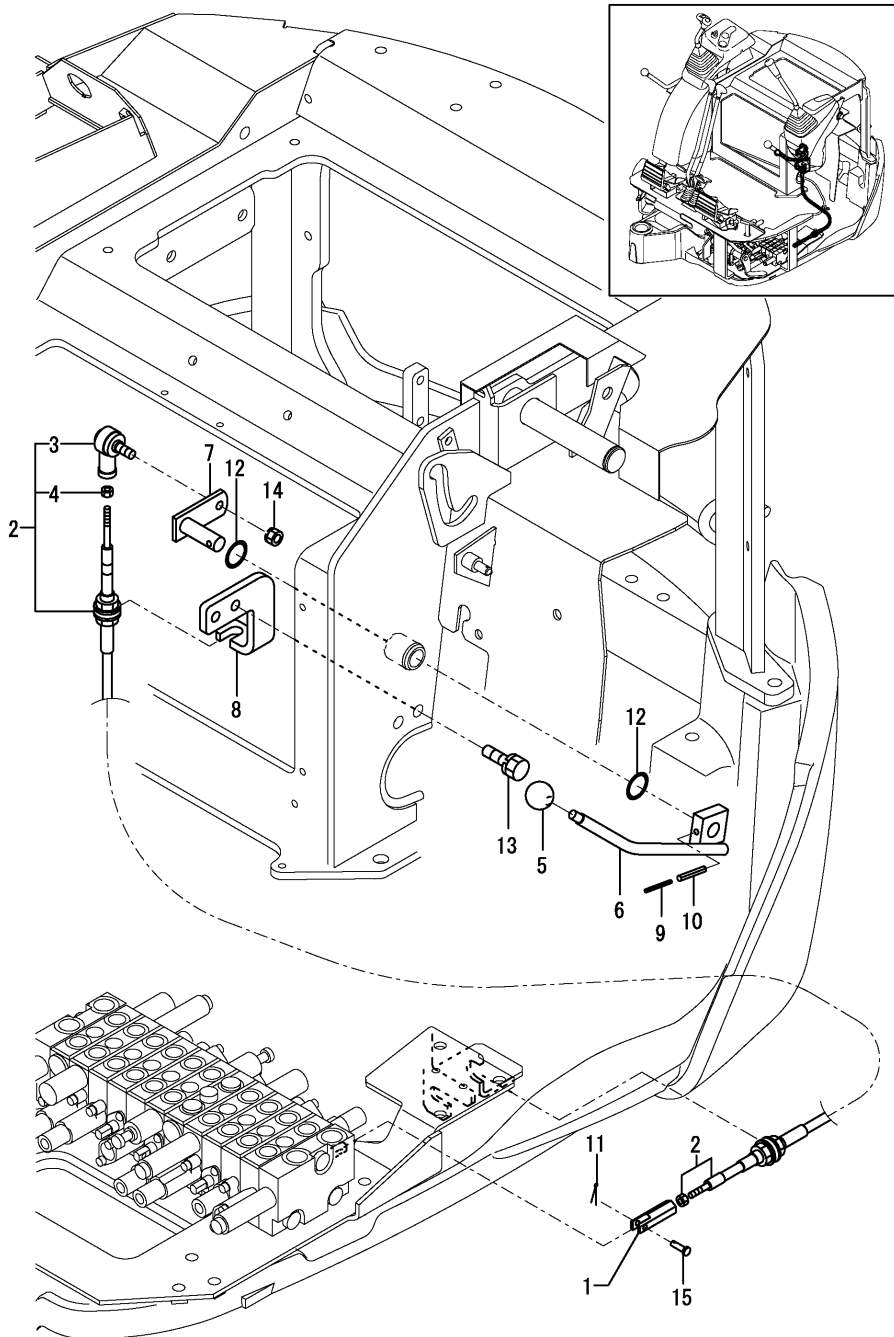
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-45700	LEVER, BLADE (GRAY:72)	1	1						
1-1	1	172448-45700-1	LEVER, BLADE (GRAY:49)	1	1						S
				(A=M/#28166)		(B=M/#28166)					
2	1	172448-45740	PLATE, BLADE	1	1						
3	1	172448-45771	BRACKET, BLADE	1	1						
4	1	172164-45970	GRIP, BLADE	1	1						
5	1	22351-030025	PIN, SPRING 3.0X25	1	1						
6	1	22351-050025	PIN, SPRING 5.0X25	1	1						
7	1	24311-000210	O-RING, 1AP21.0	3	3						
8	1	26013-100202	BOLT, M10X 20	2	2						
9	1	26116-080304	BOLT, M8X 30 PLATED	2	2						
10	1	26716-080002	NUT, M8	2	2						
11	1	172126-16540	CLAMP	1	1						
12	1	172448-45660	ROD, SPOOL	1	1						
13	1	172448-45840	BRACKET, BR CABLE	1	1						
14	1	172448-45850	CABLE, BLADE	1	1						
15	2	172458-45810	JOINT, BALL	1	1						
16	2	26757-050002	NUT, LOCK M5	1	1						
17	1	22417-160160	PIN, COTTER 1.6X16	1	1						
18	1	26013-100202	BOLT, M10X 20	2	2						
19	1	26013-100202	BOLT, M10X 20	1	1						
20	1	26051-080002	NUT, M8	1	1						
21	1	933110-54100	PIN 4.75X14	1	1						

Fig.25. CONTROL EQUIPMENT(VARIABLE LEG LEVER)

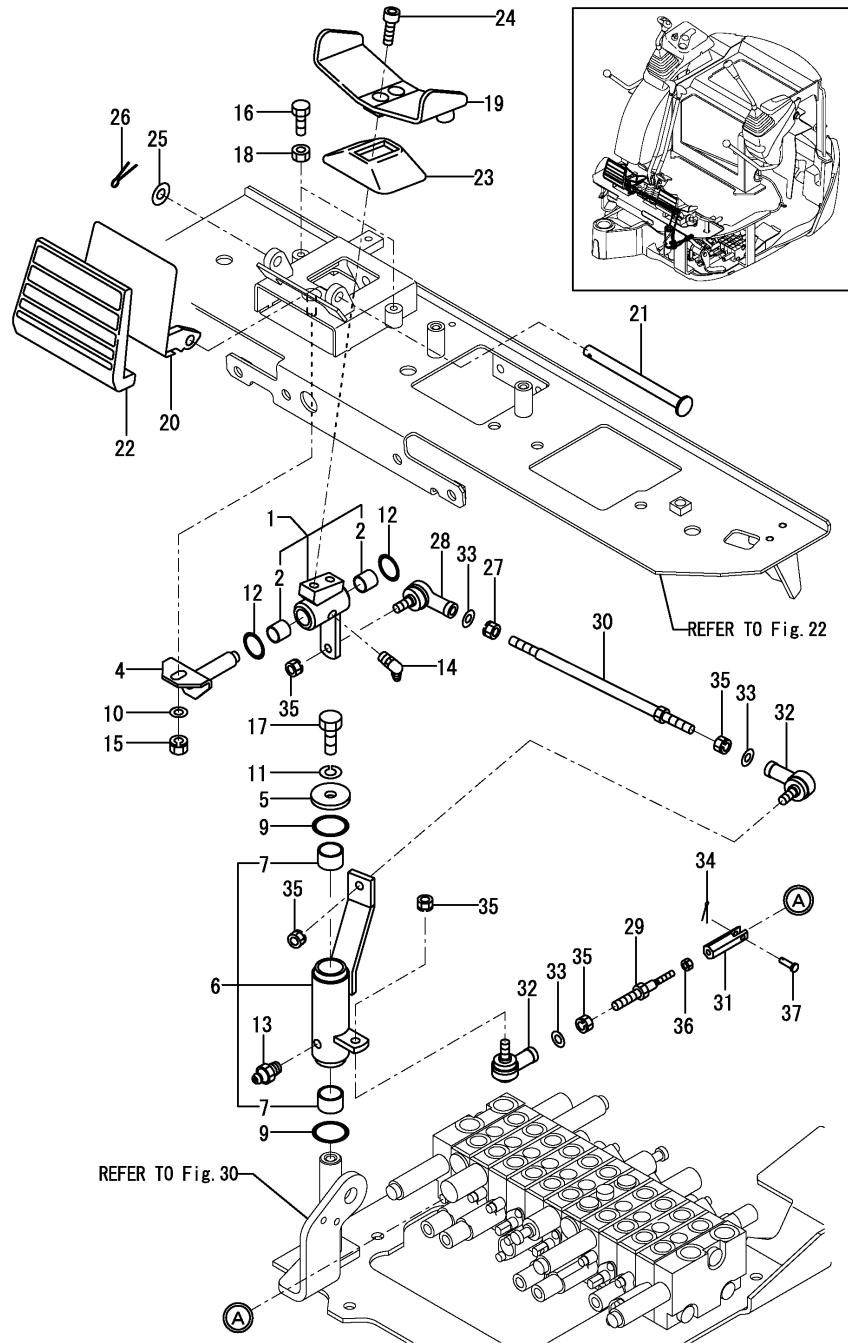


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-45660	ROD,SPOOL	1	1						
2	1	172448-45870	CABLE	1	1						
3	2	172458-45810	JOINT, BALL	1	1						
4	2	26757-050002	NUT, LOCK M5	1	1						
5	1	172446-45950	KNOB, LEVER	1	1						
6	1	172448-47801	LEVER,W/S (GRAY:72)	1	1						
6-1	1	172448-47801-1	LEVER,W/S (GRAY:49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
7	1	172448-47830	LINK,W/S	1	1						
8	1	172448-47860	BRACKET,W/S	1	1						
9	1	22351-030032	PIN, SPRING 3.0X32	1	1						
10	1	22351-050032	PIN, SPRING 5.0X32	1	1						
11	1	22417-160160	PIN, COTTER 1.6X16	1	1						
12	1	24311-000210	O-RING, 1AP21.0	2	2						
13	1	26013-100202	BOLT, M10X 20	2	2						
14	1	26051-080002	NUT, M8	1	1						
15	1	933110-54100	PIN 4.75X14	1	1						

Fig.26. CONTROL EQUIPMENT(SWING PEDAL)

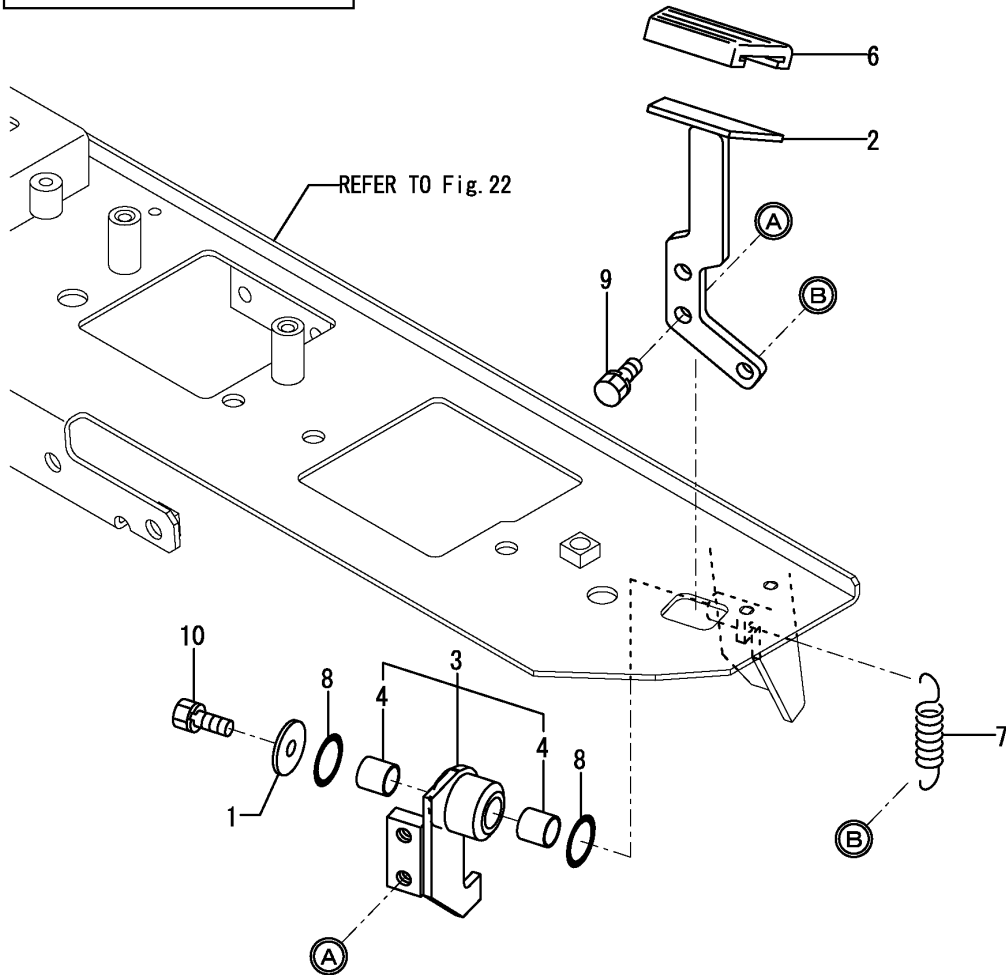
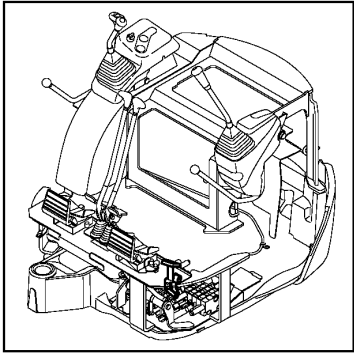


(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-45200	LINK, SWING ASSY	1	1						
2	2	172141-41360	BUSH 1415	2	2						
4	1	172187-45530	SHAFT ASSY	1	1						
5	1	1A1040-45890	WASHER, 10X36X4.5	1	1						
6	1	172448-46120	LINK SWING ASSY	1	1						
7	2	172141-41370	BUSH 2015	2	2						
9	1	172124-46200	O-RING	2	2						
10	1	22137-080000	WASHER, 8	1	1						
11	1	22217-100000	WASHER, SPRING 10	1	1						
12	1	24311-000210	O-RING, 1AP21.0	2	2						
13	1	24761-020000	NIPPLE, GREASE PT1/8	1	1						
14	1	24761-040000	NIPPLE, GREASE B	1	1						
15	1	26051-080002	NUT, M8	1	1						
16	1	26116-080254	BOLT, M8X 25 PLATED	2	2						
17	1	26116-100202	BOLT, M10X 20 PLATED	1	1						
18	1	26716-080002	NUT, M8	2	2						
19	1	172458-45521	PEDAL, SWING (GRAY:72)	1	1						
19-1	1	172458-45521-1	PEDAL, SWING (GRAY:49)	1	1						S
(A=M/#28166) (B=M/#28166)											
20	1	172458-45540	COVER, PEDAL	1	1						
20-1	1	172458-45540-1	COVER, PEDAL	1	1						S
(A=M/#28166) (B=M/#28166)											
21	1	172187-45651	SHAFT	1	1						
22	1	172187-45760	COVER PAD	1	1						
23	1	172157-45990	BOOTS, PEDAL	1	1						
24	1	172165-46340	BOLT	2	2						
25	1	22137-100000	WASHER, 10	1	1						
26	1	22417-250200	PIN, COTTER 2.5X20	1	1						
27	1	194200-37780	NUT, M8	1	1						
28	1	172734-41300	JOINT, BALL	1	1						
29	1	172448-45290	ROD 75	1	1						
30	1	172146-45630	ROD, OFFSET	1	1						
31	1	172448-45660	ROD, SPOOL	1	1						
32	1	172122-46590	ELBOW	2	2						
33	1	22117-080000	WASHER, 8	3	3						
34	1	22417-160160	PIN, COTTER 1.6X16	1	1						
35	1	26051-080002	NUT, M8	5	5						
36	1	26716-050002	NUT, M5	1	1						
37	1	933110-54100	PIN 4.75X14	1	1						

Fig.27. CONTROL EQUIPMENT(LOW-HIGH PEDAL)



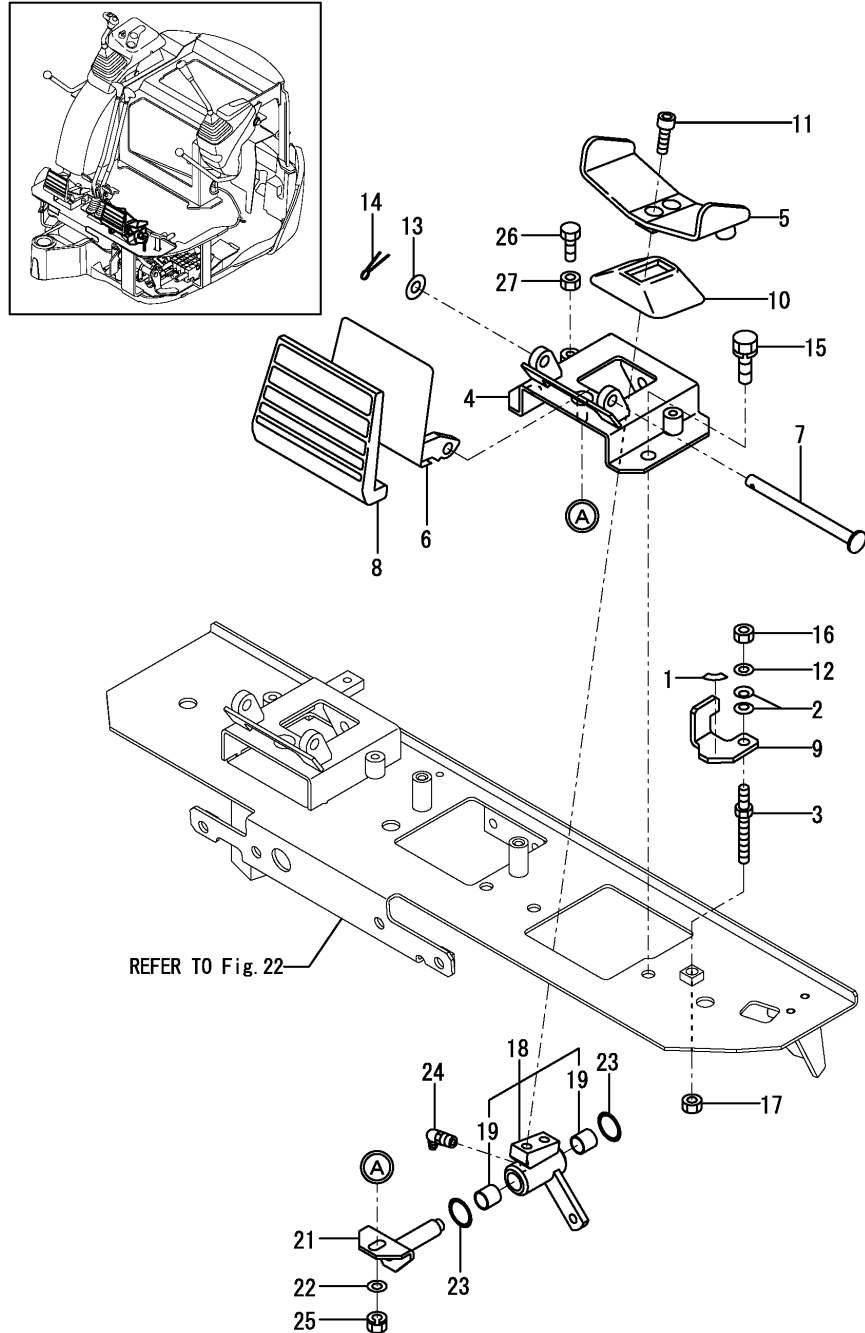
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A1040-43900	WASHER, SPRING	1	1						
2	1	172448-45900	PEDAL (GRAY:72)	1	1						
2-1	1	172448-45900-1	PEDAL (GRAY:49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
3	1	172448-45920	BRACKET ASSY,PEDAL	1	1						
4	2	172141-41360	BUSH 1415	2	2						
6	1	172458-45950	PAD,PEDAL	1	1						
7	1	172162-46690	SPRING	1	1						
8	1	24311-000210	O-RING, 1AP21.0	2	2						
9	1	26013-080162	BOLT, M8X 16	2	2						
10	1	26013-080202	BOLT, M8X 20	1	1						



Fig.28. CONTROL EQUIPMENT(P.T.O. PEDAL)

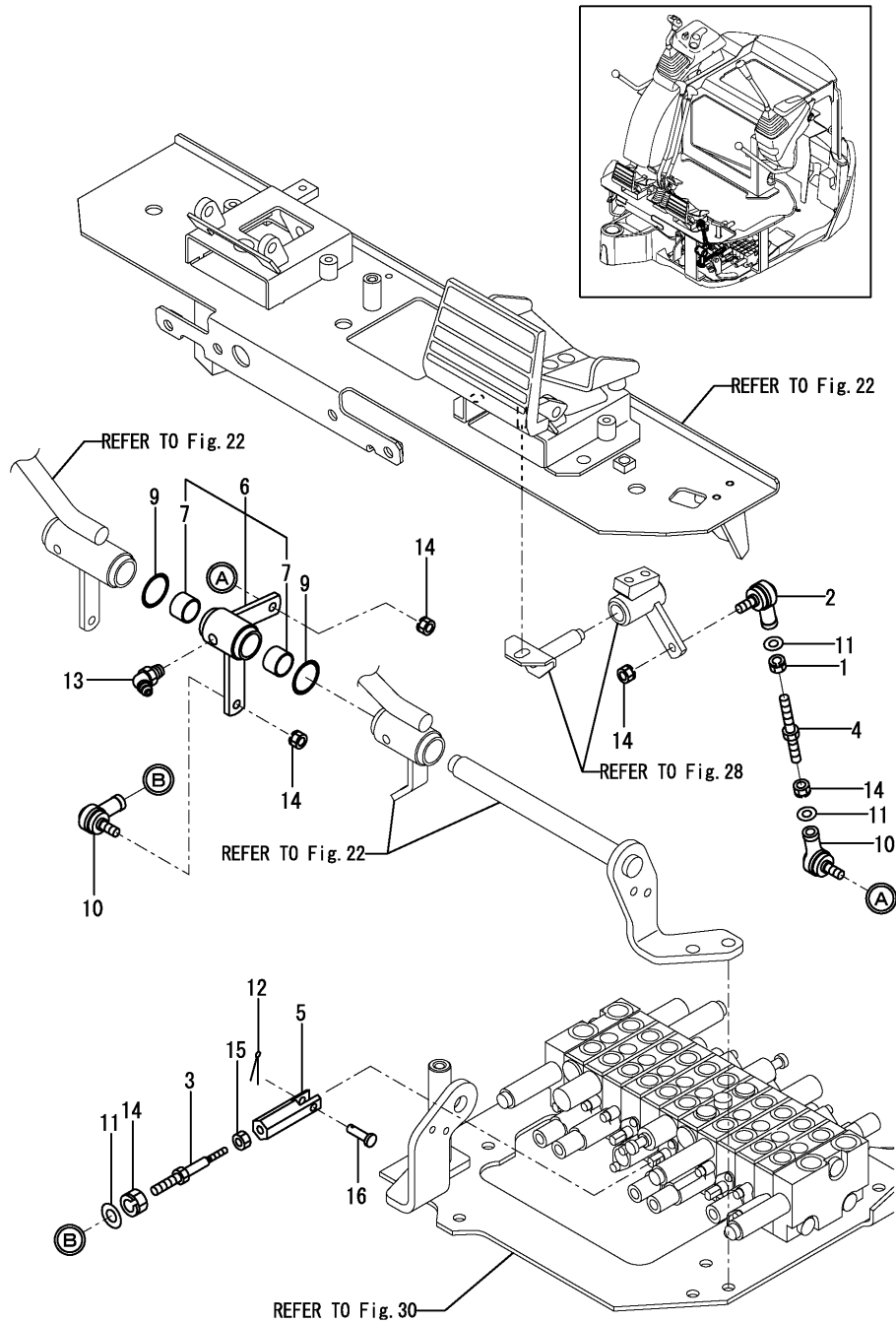


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-03240	LABEL,LOCK	1	1						
2	1	172068-28490	SPRING	2	2						
3	1	172448-45300	BOLT 8X75	1	1						
4	1	172448-45380	BRACKET,PTO(BLACK:12	1	1						
4-1	1	172448-45380-1	BRACKET,PTO(GRAY:49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
5	1	172458-45521	PEDAL,SWING(GRAY:72)	1	1						
5-1	1	172458-45521-1	PEDAL,SWING(GRAY:49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
6	1	172458-45540	COVER, PEDAL	1	1						
6-1	1	172458-45540-1	COVER, PEDAL	1	1						S
		(A=M/#28166) (B=M/#28166)									
7	1	172187-45651	SHAFT	1	1						
8	1	172187-45760	COVER PAD	1	1						
9	1	172448-45800	PLATE,LOCK(PTO (11)	1	1						
9-1	1	172448-45800-3	PLATE,LOCK(PTO (10)	1	1						S
		(A=M/#28166) (B=M/#28166)									
10	1	172157-45990	BOOTS, PEDAL	1	1						
11	1	172165-46340	BOLT	2	2						
12	1	22137-080000	WASHER, 8	1	1						
13	1	22137-100000	WASHER, 10	1	1						
14	1	22417-250200	PIN, COTTER 2.5X20	1	1						
15	1	26013-100202	BOLT, M10X 20	2	2						
16	1	26347-080002	NUT, M8	1	1						
17	1	26716-080002	NUT, M8	1	1						
18	1	172448-45220	LINK ASSY,PTO	1	1						
19	2	172141-41360	BUSH 1415	2	2						
21	1	172187-45530	SHAFT ASSY	1	1						
22	1	22137-080000	WASHER, 8	1	1						
23	1	24311-000210	O-RING, 1AP21.0	2	2						
24	1	24761-040000	NIPPLE, GREASE B	1	1						
25	1	26051-080002	NUT, M8	1	1						
26	1	26116-080254	BOLT, M8X 25 PLATED	2	2						
27	1	26716-080002	NUT, M8	2	2						

Fig.29. CONTROL EQUIPMENT(P.T.O. LINK)



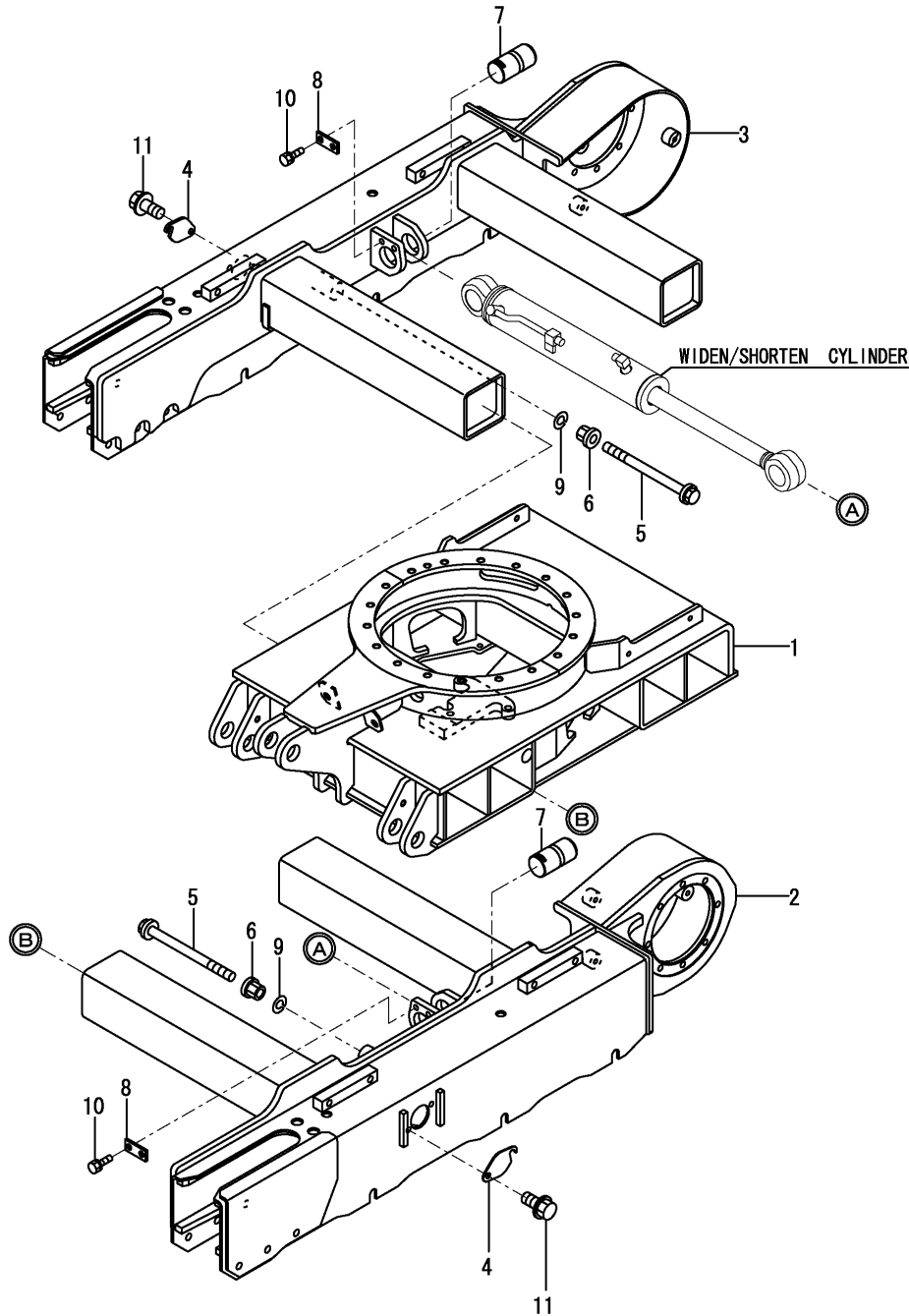
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194200-37780	NUT, M8	1	1						
2	1	172734-41300	JOINT, BALL	1	1						
3	1	172448-45260	ROD 90	1	1						
4	1	172469-45360	ROD 77	1	1						
5	1	172448-45660	ROD,SPOOL	1	1						
6	1	172448-46100	LINK ASSY,PTO	1	1						
7	2	172141-41370	BUSH 2015	2	2						
9	1	172124-46200	O-RING	2	2						
10	1	172122-46590	ELBOW	2	2						
11	1	22117-080000	WASHER, 8	3	3						
12	1	22417-160160	PIN, COTTER 1.6X16	1	1						
13	1	24761-040000	NIPPLE, GREASE B	1	1						
14	1	26051-080002	NUT, M8	5	5						
15	1	26716-050002	NUT, M5	1	1						
16	1	933110-54100	PIN 4.75X14	1	1						



Fig.31. TRACK FRAME

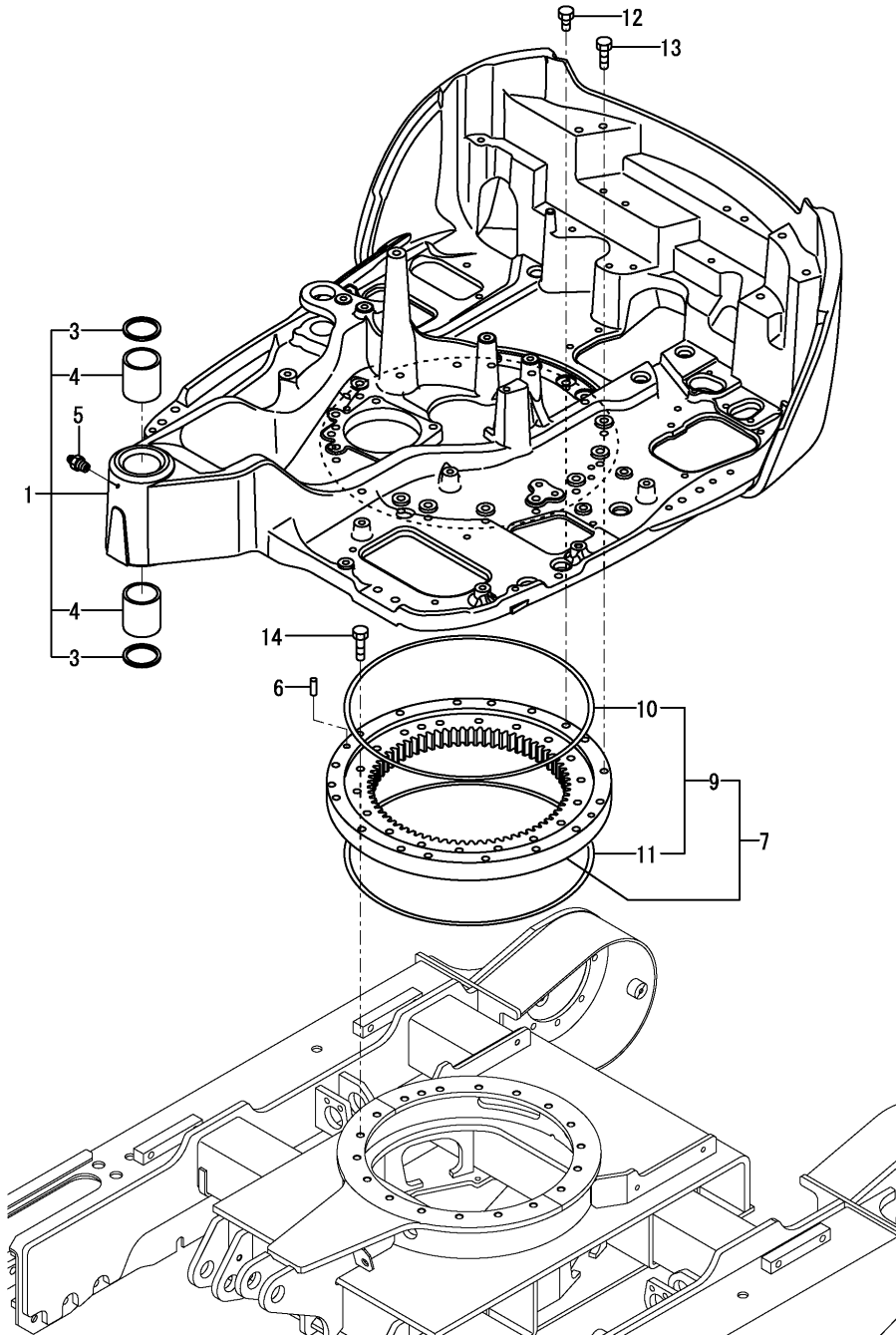


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-50200-1	FRAME,LOWER CENTER	1	1						
1-1	1	172448-50200-2	FRAME,LOWER CENTER	1	1						S
				(A=M/#28166)	(B=M/#28166)						
2	1	172448-50401-1	FRAME,CRAWER L (82)	1	1						
2-1	1	172448-50401-2	FRAME,CRAWER L (49)	1	1						S
				(A=M/#28166)	(B=M/#28166)						
3	1	172448-50411-1	FRAME,CRAWER R (82)	1	1						
3-1	1	172448-50411-2	FRAME,CRAWER R (49)	1	1						S
				(A=M/#28166)	(B=M/#28166)						
4	1	172458-50480-1	COVER, FRAME	2	2						
4-1	1	172458-50480-2	COVER, FRAME	2	2						S
				(A=M/#28166)	(B=M/#28166)						
5	1	172448-50700	BOLT,STOPPER	2	2						
6	1	172448-50720	NUT ASSY, STOPPER	2	2						
7	1	172448-50760	PIN 40-70	2	2						
8	1	172448-50770-1	PLATE (GREEN:82)	2	2						
8-1	1	172448-50770-2	PLATE (GRAY:49)	2	2						S
				(A=M/#28166)	(B=M/#28166)						
9	1	22212-160000	SPRING WAHER 16	2	2						
10	1	26013-100162	BOLT, M10X 16	4	4						
11	1	26106-100122	BOLT, M10X 12 PLATED	4	4						

Fig.32. TURNING FRAME & TURNING BEARING

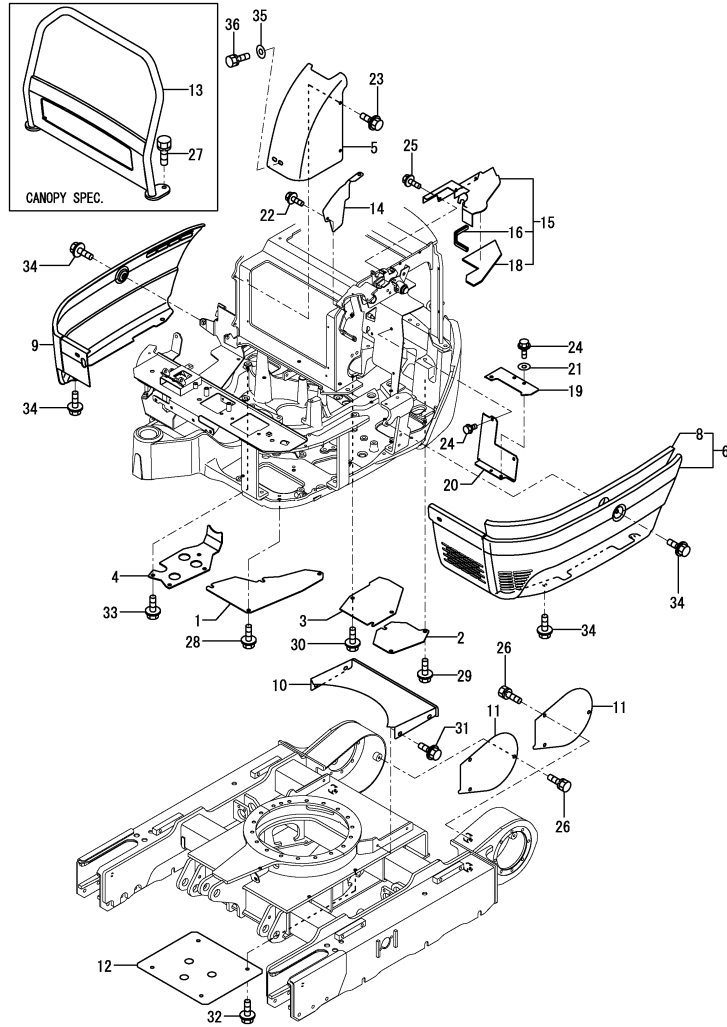


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A55-54100-1	TURNING FRAME (82)	1	1						
1-1	1	172A55-54100-2	TURNING FRAME(GRAY49)	1	1						S
		(A=M/#28166)	(B=M/#28166)								
3	2	172448-54120	SEAL, DUST	2	2						
4	2	172171-54750	BUSH 50X65	2	2						
5	1	24761-020000	NIPPLE, GREASE PT1/8	1	1						
6	1	194940-24350	PIN, 10X28	3	3						
7	1	172447-57600	BEARING,TURNING	1	1						
9	2	172149-57610	SEAL SET	1	1						
10	3	172149-57620	SEAL	1	1						
11	3	172149-57630	SEAL	1	1						
12	1	26076-120252	BOLT, 10.912X 25	4	4						
13	1	26076-120402	BOLT, 10.912X 40	13	13						
14	1	26076-120452	BOLT, 10.912X 45	18	18						

Fig.33. COVER



(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-61110-1	COVER	1	1						
1-1	1	172448-61110-2	COVER	1	1						S
		(A=M/#28166) (B=M/#28166)									
2	1	172448-61120-1	COVER	1	1						
2-1	1	172448-61120-2	COVER	1	1						S
		(A=M/#28166) (B=M/#28166)									
3	1	172A55-61130-1	COVER, ENGINE	1	1						
3-1	1	172A55-61130-2	COVER, ENGINE	1	1						S
		(A=M/#28166) (B=M/#28166)									
4	1	172448-61140-1	COVER	1	1						
4-1	1	172448-61140-2	COVER	1	1						S
		(A=M/#28166) (B=M/#28166)									
5	1	172448-61160	COVER	1	1						1
6	1	172448-61191-1	COVER	1	1						2
6-1	1	172448-61191-2	COVER	1	1						S 2
		(A=M/#28166) (B=M/#28166)									
8	2	172448-61240	SPONGE	1	1						
9	1	172A55-61250-1	COVER	1	1						3
9-1	1	172A55-61250-2	COVER	1	1						S 3
		(A=M/#28166) (B=M/#28166)									
10	1	172448-61450-1	COVER, HOSE	1	1						
10-1	1	172448-61450-2	COVER, HOSE	1	1						S
		(A=M/#28166) (B=M/#28166)									
11	1	172448-61500-1	COVER, MOTOR	2	2						
11-1	1	172448-61500-2	COVER, MOTOR	2	2						S
		(A=M/#28166) (B=M/#28166)									
12	1	172448-61530-1	COVER	1	1						
12-1	1	172448-61530-2	COVER	1	1						S
		(A=M/#28166) (B=M/#28166)									
13	1	172448-61600-1	COVER		1						4
14	1	172448-61710	COVER	1	1						
15	1	172448-61800	COVER, RESERVOIR	1	1						5
16	2	172444-17620	SEAL	1	1						
18	2	172448-61870	SPONGE	1	1						
19	1	172448-61890	COVER, MULTI	1	1						
19-1	1	172448-61890-1	COVER, MULTI	1	1						S
		(A=M/#28166) (B=M/#28166)									
20	1	172448-61910	COVER, MULTI	1	1						
21	1	172458-62430	WASHER M8	2	2						
22	1	172519-63240	BOLT	1	1						
23	1	172519-63240	BOLT	2	2						
24	1	172519-63240	BOLT	4	4						
25	1	172519-63240	BOLT	2	2						
26	1	26013-100202	BOLT, M10X 20	6	6						
27	1	26013-120302	BOLT, M12X 30		2						6
28	1	26106-100162	BOLT, M10X 16 PLATED	4	4						
29	1	26106-100162	BOLT, M10X 16 PLATED	3	3						
30	1	26106-100162	BOLT, M10X 16 PLATED	3	3						
31	1	26106-100162	BOLT, M10X 16 PLATED	4	4						
32	1	26106-100162	BOLT, M10X 16 PLATED	4	4						
33	1	26106-100162	BOLT, M10X 16 PLATED	4	4						

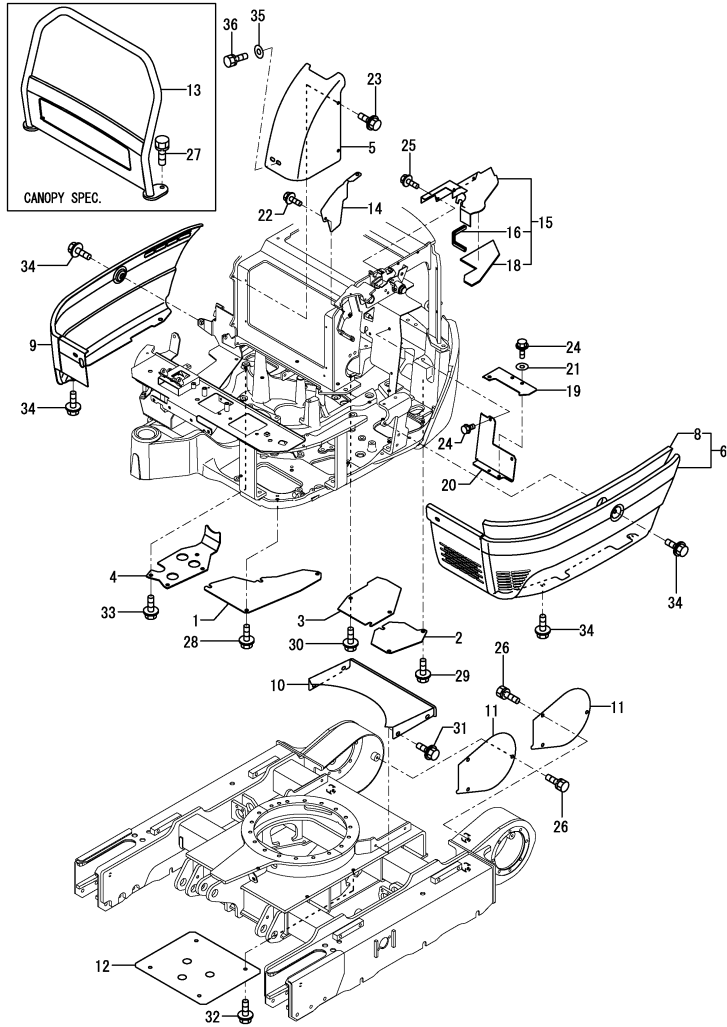
Remarks

- (1)USE W/37A,37B,37C & 37D(CANOPY)
- USE W/O LABEL(ROPS CANOPY SPEC.)
- (2)USE WITH REF.NO.38A LABEL.
- (3)USE WITH REF.NO39A & 39B LABEL.
- (4)CANOPY SPEC.
- NOT APPLIED FOR ROPS CANOPY SPEC.
- USE W/REF.NO.40A LABEL(CANOPY)
- (5)USE W/REF.NO.41A LABEL(CANOPY)
- USE W/O LABEL (ROPS CANOPY)
- (6)CANOPY SPEC.
- (7)LABELS ARE NOT ILLUSTRATED.

Fig.33. COVER

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
34	1	26106-100162	BOLT, M10X 16 PLATED	8	8						
35	1	22137-100000	WASHER, 10	1	1						
36	1	26013-100202	BOLT, M10X 20	1	1						
37A	1	172437-03311	LABEL, SLOPE US		1						7
37A-1	1	172437-03312	LABEL,SLOPE US (B=M/#27943)		1						N 7
37B	1	172437-03342	LABEL, TRANSPORT US		1						7
37B-1	1	172437-03343	LABEL, TRANSPORT US (B=M/#28218)		1						N 7
37C	1	172437-03432	LABEL, STEERING US		1						7
37D	1	172437-03601	LABEL, 2-WAY US		1						7
38A	1	172437-03352	LABEL, GREASE CYL.	1	1						7
39A	1	172437-03352	LABEL, GREASE CYL.	1	1						7
39B	1	172437-03422	LABEL, MUFFLER US	1	1						7
40A	1	172A55-03560	LABEL,LIFT US		1						7
41A	1	172437-03471	LABEL, LEVER LOCK US		1						7

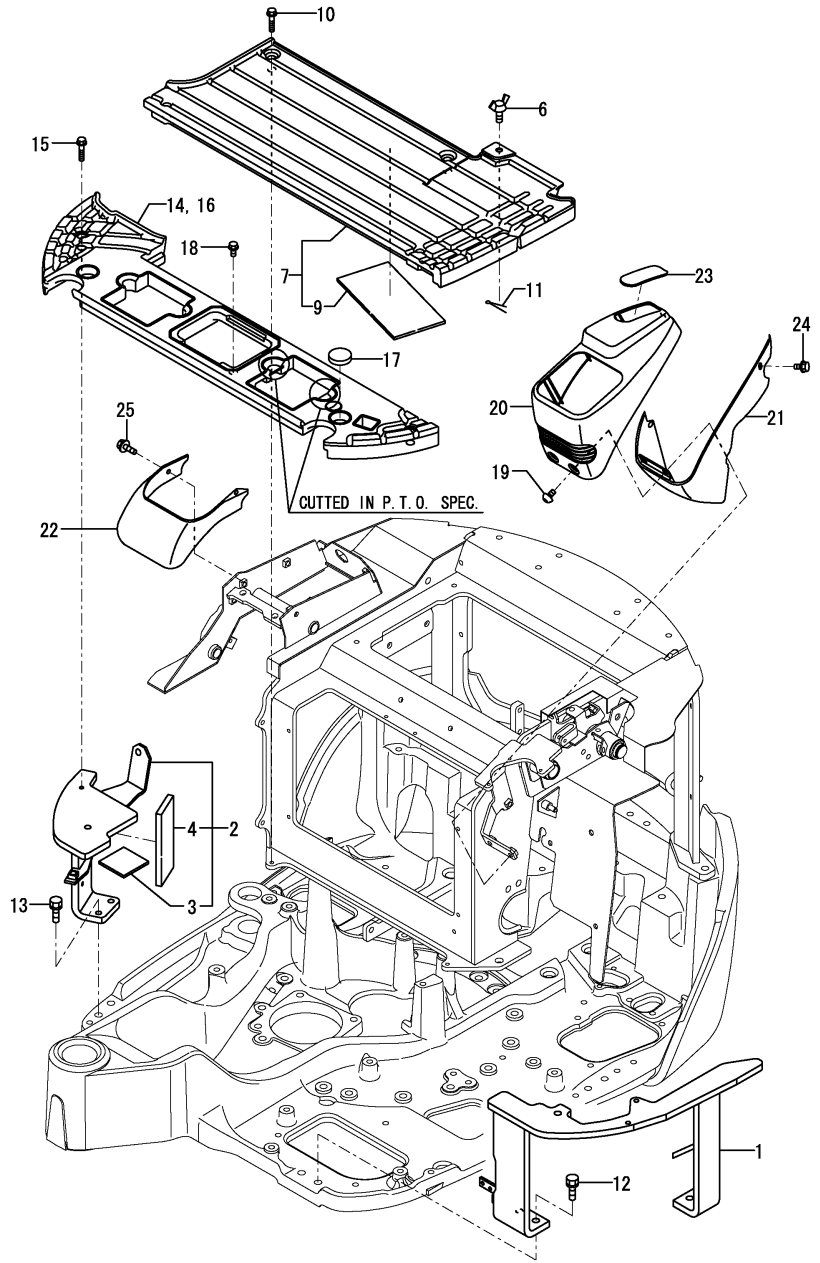
Remarks

- (1)USE W/37A,37B,37C & 37D(CANOPY)  
USE W/O LABEL(ROPS CANOPY SPEC.)
- (2)USE WITH REF.NO.38A LABEL.
- (3)USE WITH REF.NO.39A & 39B LABEL.
- (4)CANOPY SPEC.
- NOT APPLIED FOR ROPS CANOPY SPEC.
- USE W/REF.NO.40A LABEL(CANOPY)
- (5)USE W/REF.NO.41A LABEL(CANOPY)  
USE W/O LABEL (ROPS CANOPY)
- (6)CANOPY SPEC.
- (7)LABELS ARE NOT ILLUSTRATED.

Fig.34. STEP & INSTRUMENT PANEL

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-62101	STAND ASSY	1	1						
2	1	172448-62150	STAND ASSY	1	1						
3	2	172446-14250	RUBBER PLATE	2	2						
4	2	172458-14361	RUBBER PLATE-C,FO	1	1						
6	1	172142-62300	WING BOLT M10X15	1	1						
7	1	172448-62390	STEP ASSY	1	1						
9	2	172448-62480	SPONGE	1	1						
10	1	172448-62400	BOLT, M8X35	4	4						
11	1	22417-320200	PIN, COTTER 3.2X20	1	1						
12	1	26013-120402	BOLT, M12X 40	3	3						
13	1	26013-120402	BOLT, M12X 40	2	2						
14	1	172448-62330	STEP, PTO			1					1
15	1	172448-62400	BOLT, M8X35	2	2						
16	1	172448-62500	STEP	1	1						
17	1	172448-62650	CAP	2	2						
18	1	172519-63240	BOLT	1	1						
19	1	172458-46720	BOLT 8X20	3	3						
20	1	172458-63100	INSTRUMENT PANEL L	1	1						
21	1	172448-63120	INSTRUMENT PANEL L	1	1						
22	1	172448-63130	INSTRUMENT PANEL R	1	1						
23	1	172448-63150	CAP, PANEL	1	1						
24	1	172519-63240	BOLT	2	2						
25	1	172519-63240	BOLT	1	1						

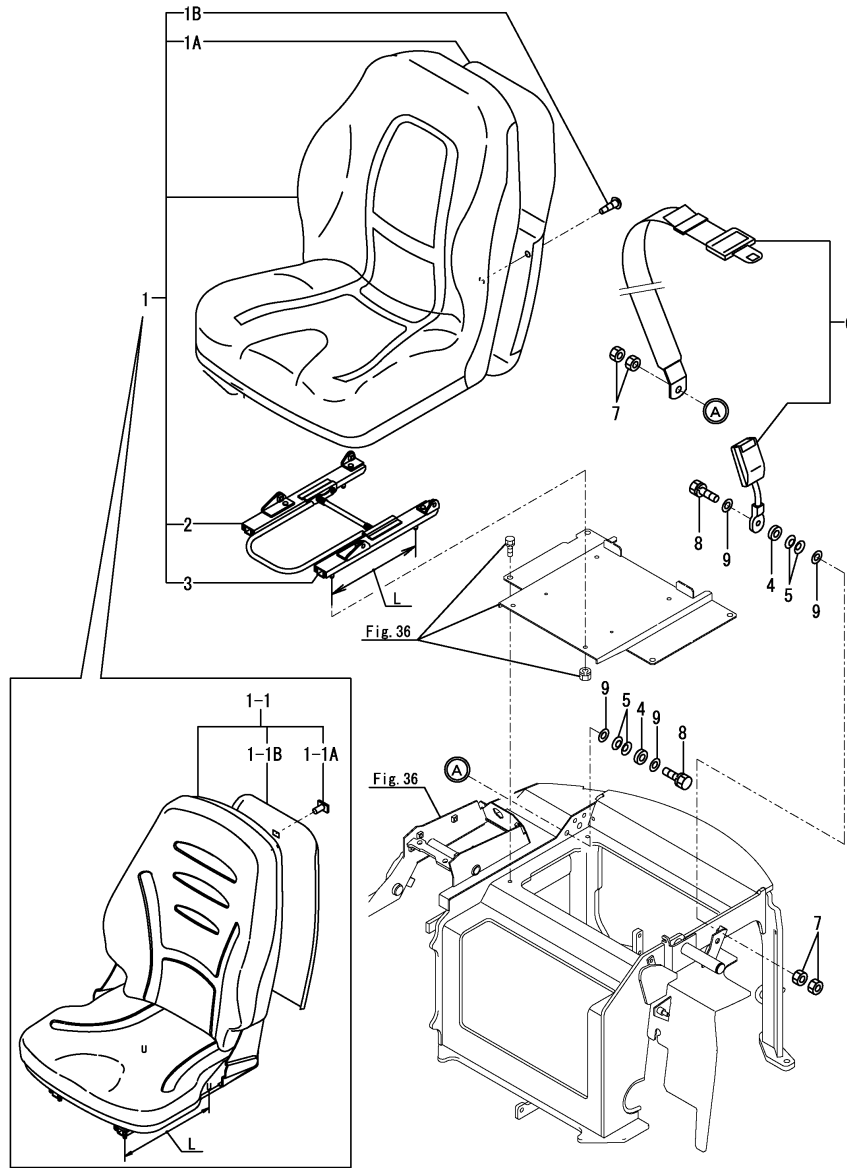
Remarks  
 (1)P.T.O. SPEC.



Fig.35. SEAT & SEAT BELT

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



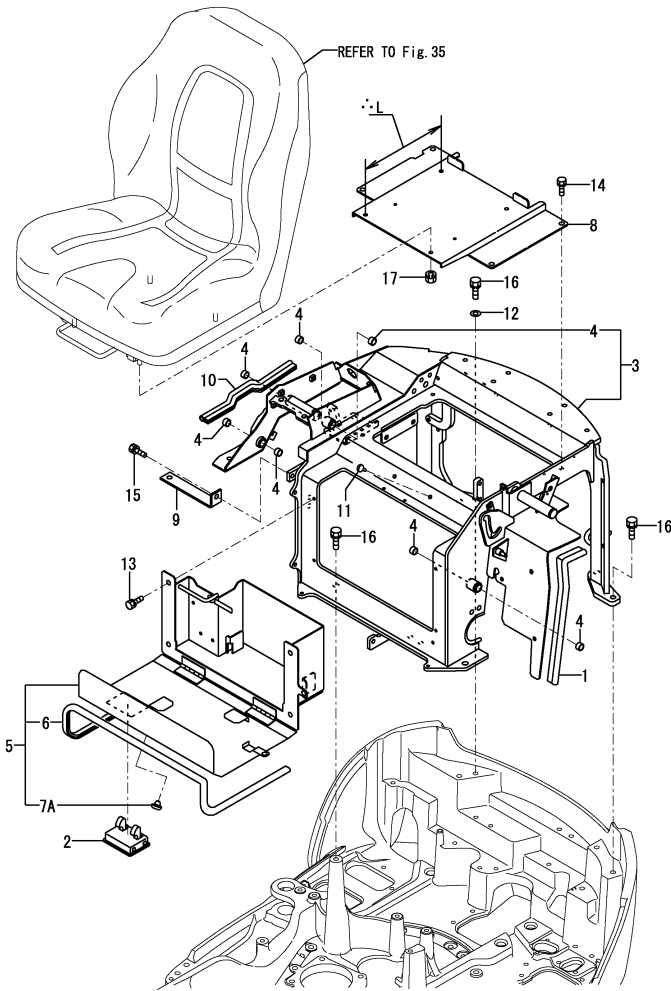
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172455-64200	SHEET	1	1						2
1-1	1	172A46-64200	SEAT, OPERATOR	1	1						F 1
		(A=XXX) (B=XXX)									
1-1A	2	172A46-64180	LOCK-FUSE,LID	1	1						W
		(A=*2010.04.) (B=*2010.04.)									
1-1B	2	172A46-64190	COVER, BACK	1	1						W
		(A=*2010.04.) (B=*2010.04.)									
1-2	1	172A46-64200	SEAT ASSY, OPERATOR	1	1						Z 2
		(A=*2017.11.) (B=*2017.11.)									
1A	2	172455-64590	BOARD, FR SEAT BACK	1	1						Z
		(A=XXX) (B=XXX)									
1B	2	172455-64710	SCREW	14	14						Z
		(A=XXX) (B=XXX)									
2	2	172455-64600	TRACK ASSY, SEAT	1	1						Z
		(A=XXX) (B=XXX)									
3	2	172455-64610	TRACK ASSY, SEAT	1	1						Z
		(A=XXX) (B=XXX)									
4	1	172156-61320	COLLAR	2	2						
5	1	172652-64220	SPRING	4	4						
6	1	172989-64451	BELT, SEAT	1	1						
7	1	172187-64831	NUT	4	4						
8	1	172448-68182	BOLT 7/16-20X50 UNF	2	2						
9	1	22137-120000	WASHER, 12	4	4						

Remarks

- (1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH FIG.36 REF.NO.8-1  
 L=REF.NO.1 255MM,NO.1-1 285MM
- (2)Spare parts is shown in Fig.78 No.1.

Fig.36. SEAT MOUNT

P/C NEWS No.:Y00S4601-1  
PUBLISHED:2007/05



∴ MARKED PART HAS BEEN CHANGED (ADDED) .

(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172457-13670	SEAL	1	1						
2	1	172187-61421	HANDLE, LOCK	1	1						
3	1	172A55-64200	MOUNT,SEAT (GRAY:73)	1	1						2
4	2	24550-014100	BUSH, 14X10	7	7						
5	1	172448-64710	MOUNT,BATTERY(GRAY73)	1	1						1
6	2	172141-64350	SEAL, MOUNT	1	1						
7A	2	172176-67790	PLUG	2	2						
8	1	172448-64770	PLATE ,SEAT US (73)	1	1						
8-1	1	172A55-64770	PLATE ,SEAT US (73)	1	1						S 4
		(A=XXX)	(B=XXX)								
9	1	172448-64920	CROSS MEMBER	1	1						
10	1	172444-65680	RUBBER, SEAL	1	1						
11	1	172444-68650	CLIP, TREE	2	2						
12	1	22137-120000	WASHER, 12	1	1						
13	1	26013-100202	BOLT, M10X 20	4	4						
14	1	26013-100202	BOLT, M10X 20	4	4						
15	1	26013-100202	BOLT, M10X 20	2	2						
16	1	26013-120302	BOLT, M12X 30	6	6						
17	1	26051-080002	NUT, M8	4	4						
18A	1	172472-03141	LABEL, SUPPORT US	1	1						3
18B	1	172437-03361	LABEL, BATTERY US	1	1						3
18C	1	172446-03652	LABEL, VARIABLE US	1	1						3
18D	1	172437-03372	LABEL, NEUTRAL US		1						3
18E	1	172448-03630	LABEL, SUPPORT 2P		1						3
19A	1	172437-03301	LABEL, MANUAL US		1						3
19A-1	1	172437-03302	LABEL, MANUAL US		1						N 3
		(B=M/#28218)									

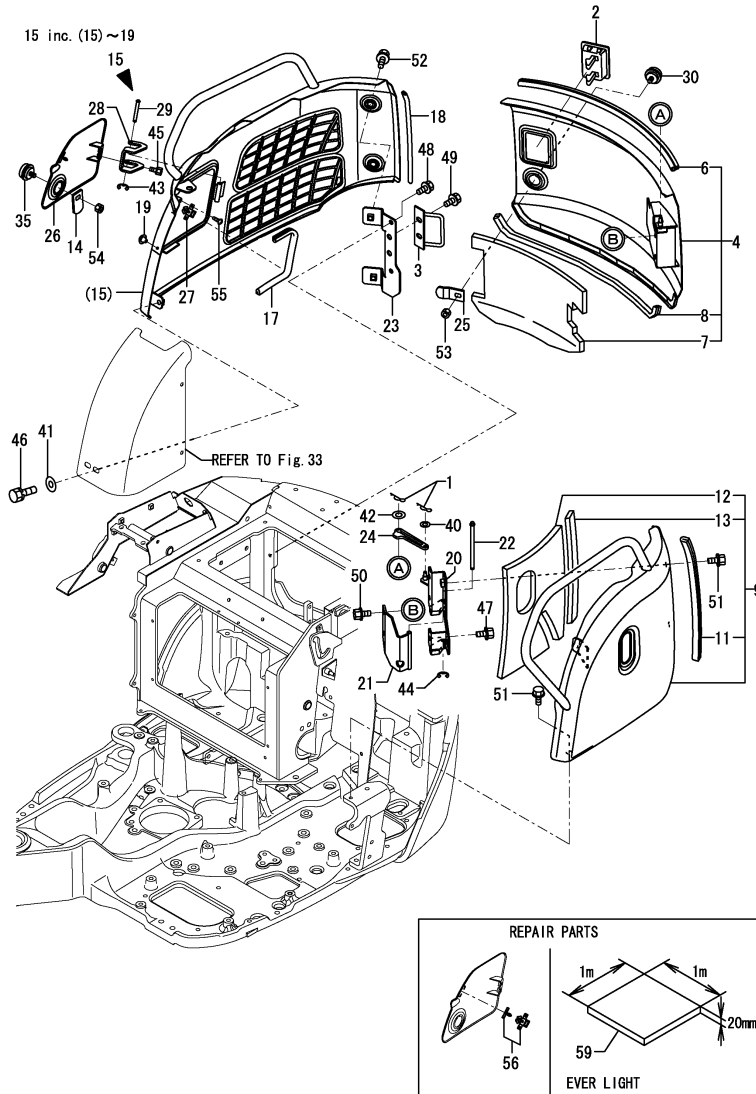
Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABEL AT THE SAME TIME.  
ROPS SPEC.:18A,18B & 18C  
CANOPY SPEC.:18B,18C,18D & 18D.
- (2)USE WITH REF.NO.19A LABEL(CANOPY)  
USE W/O LABEL (ROPS CANOPY)
- (3)LABELS ARE NOT ILLUSTRATED.
- (4)L=REF.NO.8 255MM,NO.8-1 285MM.

Fig.37. HOOD

(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

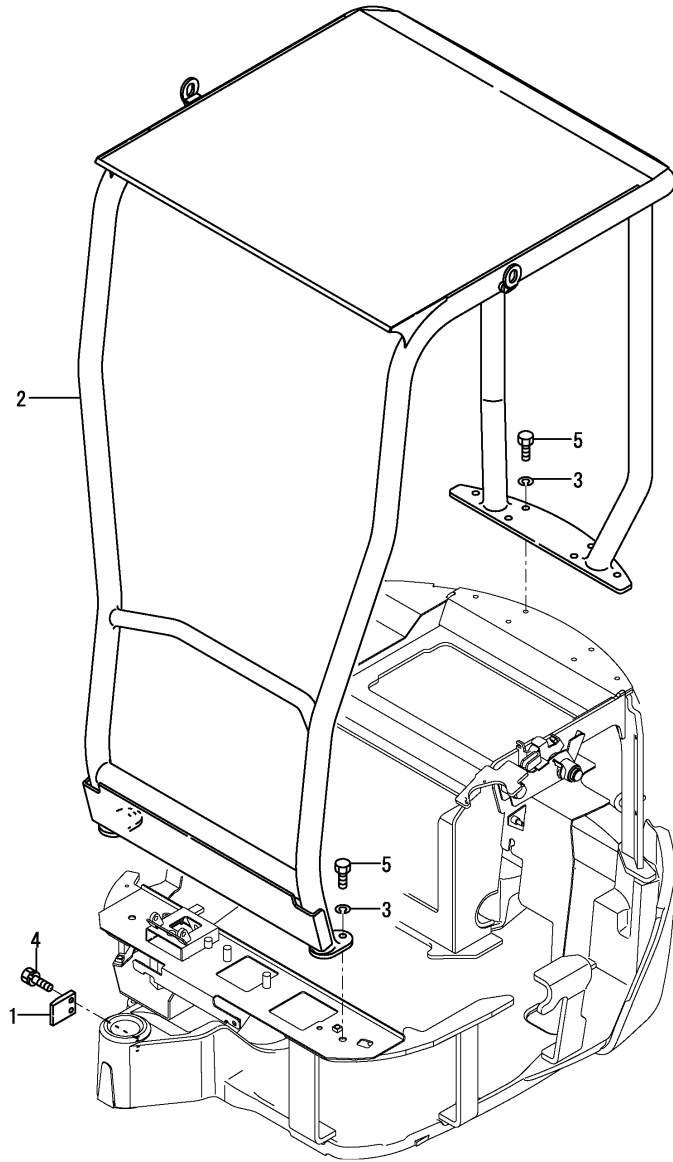
(D)=  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1C6281-52310	PIN, SNAP 6	2	2						
2	1	172187-61421	HANDLE, LOCK	1	1						
3	1	172448-65070	BAR ASSY, LOCK	1	1						
4	1	172448-65090-1	BONNET A (YELLOW:87)	1	1						1
6	2	172448-65170	SEAL, BONNET	1	1						
7	2	172448-65180	SPONGE	1	1						
8	2	172649-65770	RUBBER, SEAL	1	1						
9	1	172448-65190-1	BONNET L (YELLOW:87)	1	1						
11	2	172448-65700	SEAL, RUBBER 280	1	1						
12	2	172448-65750	SPONGE	1	1						
13	2	172448-65760	SPONGE	1	1						
14	1	172448-65270	LOCK PLATE,FO	1	1						
15	1	172A55-65290-1	BONNET R (YELLOW:87)	1	1						2
17	2	172164-65580	MOLDING	1	1						
18	2	172448-65700	SEAL, RUBBER 280	1	1						
19	2	172176-67790	PLUG	1	1						
20	1	172448-65400	BRACKET ASSY,BONNET	1	1						
21	1	172448-65450	HINGE	1	1						
22	1	172448-65490	SHAFT, HINGE	1	1						
23	1	172448-65500	BRACKET ASSY,BONNET	1	1						
24	1	172448-65550	GUIDE, LOCK	1	1						
25	1	172448-65580	LOCK PLATE,BONNET A	1	1						
26	1	172448-65610-1	COVER ASSY, FUEL	1	1						
27	1	172448-65680	CATCH, ROLLER	1	1						
28	1	172448-65960	HINGE,FO COVER	1	1						
29	1	172448-65970	PIN,HINGE FO	1	1						
30	1	172164-66170	KEY ASSY, CYLINDER	1	1						
35	1	172164-66170	KEY ASSY, CYLINDER	1	1						
40	1	22117-060000	WASHER, 6	1	1						
41	1	22137-100000	WASHER, 10	1	1						
42	1	22157-060000	WASHER, 6	1	1						
43	1	22272-000050	RING, E- 5	1	1						
44	1	22272-000070	RING, E- 7	1	1						
45	1	26013-060122	BOLT, M6X 12	2	2						
46	1	26013-100202	BOLT, M10X 20	1	1						
47	1	26106-100202	BOLT, M10X 20 PLATED	3	3						
48	1	26106-100202	BOLT, M10X 20 PLATED	2	2						
49	1	26106-100202	BOLT, M10X 20 PLATED	2	2						
50	1	26106-100202	BOLT, M10X 20 PLATED	2	2						
51	1	26106-100202	BOLT, M10X 20 PLATED	4	4						
52	1	26106-100202	BOLT, M10X 20 PLATED	3	3						
53	1	26347-100002	NUT, M10	1	1						
54	1	26347-100002	NUT, M10	1	1						
55	1	26557-040082	SCREW, M4X 8	2	2						
56	1	172448-08330	CATCH KIT, ROLLER	1	1						4
59	1	172478-65750	SPONGE	1	1						4
60A	1	172437-03381	LABEL, SWING AREA US	1	1						3
60B	1	172437-03402	LABEL, ENG, COVER US	1	1						3
61A	1	172437-03391	LABEL, RADIATOR US	1	1						3
61B	1	172A36-03411	LABEL, ENG ROOM	1	1						3

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABEL AT THE SAME TIME. REF.NO.60A & 60B.  
 (2)PLEASE USE THIS PART WITH FOLLOWING LABEL AT THE SAME TIME. REF.NO.61A & 61B.  
 (3)LABELS ARE NOT ILLUSTRATED.  
 (4)REPAIR PARTS

Fig.38. CANOPY(ROPS)



(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-54130	STOPPER	1	1						
2	1	172448-66300	CANOPY ASSY, ROPS	1	1						1
2-1	1	172448-66300-1	CANOPY ASSY, ROPS	1	1						S 1
		(A=M/#28166) (B=M/#28166)									
3	1	22217-120000	WASHER, SPRING 12	8	8						
4	1	26013-100302	BOLT, M10X 30	2	2						
5	1	26076-120302	BOLT, 10.912X 30	8	8						
6A	1	172437-03301	LABEL, MANUAL US	1	1						2
6A-1	1	172437-03302	LABEL, MANUAL US	1	1						N 2
		(A=M/#28218) (B=M/#28218)									
6B	1	172437-03311	LABEL, SLOPE US	1	1						2
6B-1	1	172437-03312	LABEL, SLOPE US	1	1						N 2
		(A=M/#27943) (B=M/#27943)									
6C	1	172437-03342	LABEL, TRANSPORT US	1	1						2
6C-1	1	172437-03343	LABEL, TRANSPORT US	1	1						N 2
		(A=M/#28218) (B=M/#28218)									
6D	1	172437-03372	LABEL, NEUTRAL US	1	1						2
6E	1	172437-03432	LABEL, STEERING US	1	1						2
6F	1	172437-03441	LABEL, ROPS US	1	1						2
6G	1	172437-03451	LABEL, SEAT BELT US	1	1						2
6H	1	172437-03471	LABEL, LEVER LOCK US	1	1						2
6I	1	172A55-03560	LABEL, LIFT US	1	1						2
6J	1	172437-03601	LABEL, 2-WAY US	1	1						2

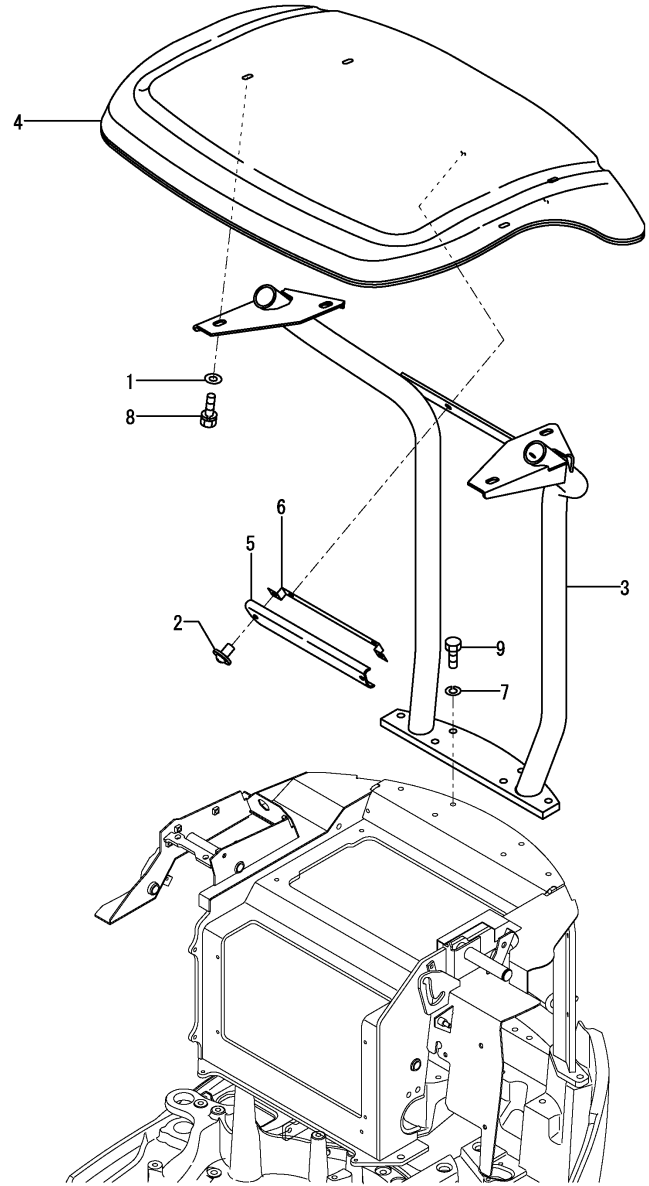
Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABEL AT THE SAME TIME.

REF.NO.6A,6B,6C,6D,6E,6F,6G,6H,6I & 6J.

(2)LABELS ARE NOT ILLUSTRATED.

Fig.39. CANOPY



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-05250	WASHER 12		6						
2	1	172187-63160	CLIP		2						
3	1	172448-68100	CANOPY ASSY		1						1
3-1	1	172448-68100-1 (B=M/#28166)	CANOPY ASSY		1						S 1
4	1	172449-68200	ROOF,CANOPY		1						
5	1	172449-68210	COVER, CANOPY		1						
6	1	172449-68220	STAY, COVER		1						
7	1	22217-120000	WASHER, SPRING 12		6						
8	1	26013-120252	BOLT, M12X 25		6						
9	1	26076-120352	BOLT, 10.912X 35		6						
10A	1	172448-03620	LABEL, CANOPY AS		1						2

Remarks

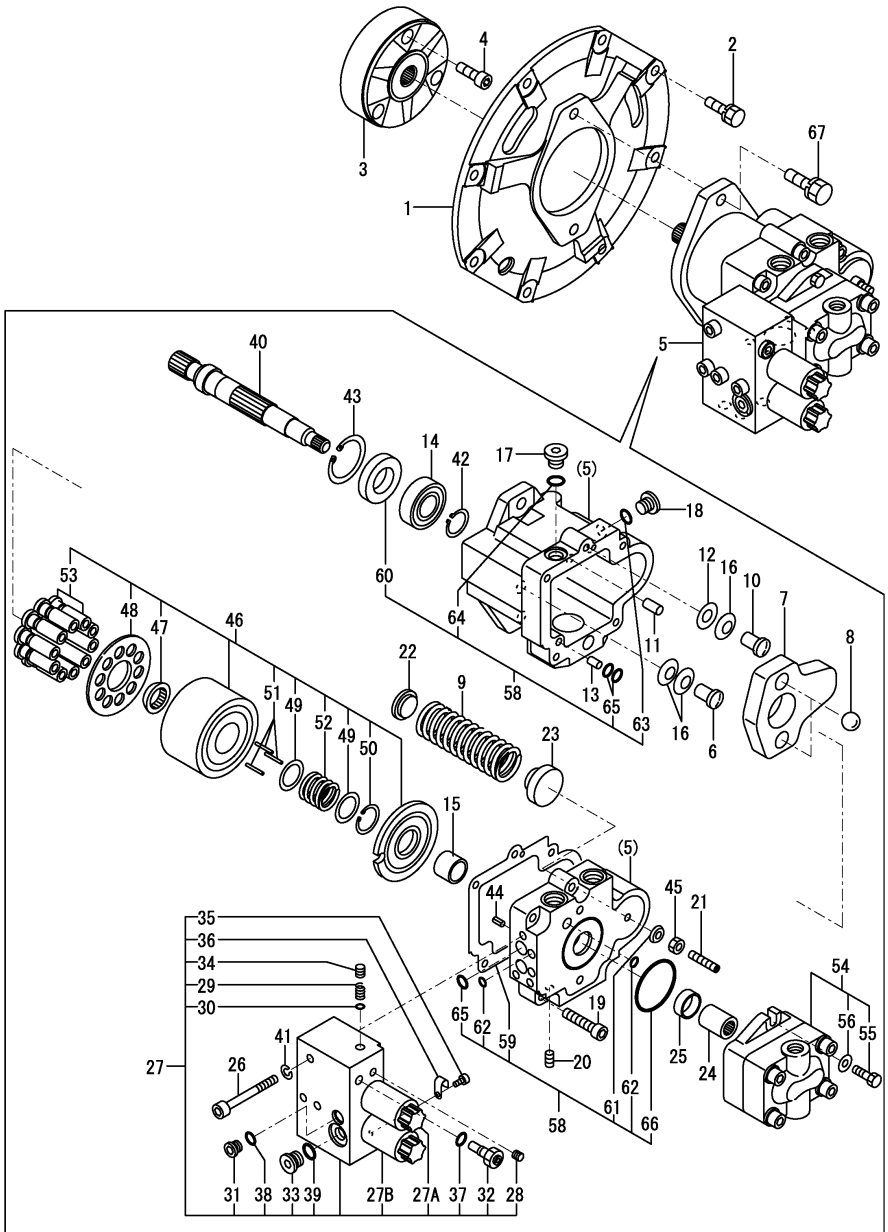
(1)PLEASE USE THIS PART WITH FOLLOW-  
 ING LABEL AT THE SAME TIME.  
 REF.NO.10A.

(2)LABELS ARE NOT ILLUSTRATED.

Fig.40. HYD.OIL PUMP & JOINT

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-71101	MOUNT, PUMP	1	1						
1-1	1	172183-71101-1	MOUNT, PUMP	1	1						S
		(A=M/#28166) (B=M/#28166)									
2	1	26013-100252	BOLT, M10X 25	8	8						
3	1	172448-71200	COUPLING	1	1						
4	1	26450-100352	BOLT, M10X 35	3	3						
5	1	172448-73100	PUMP ASSY	1	1						
6	2	172450-73110	PIN,STOPPER	1	1						
7	2	172422-73140	PLATE, SWASH	1	1						
8	2	172422-73160	PIN	2	2						
9	2	172448-73160	SPRING	1	1						
10	2	172448-73180	PIN A,STOPPER	1	1						
11	2	172422-73220	PIN	1	1						
12	2	172422-73240	WASHER	1	1						
13	2	172422-73280	PIN	1	1						
14	2	172422-73290	BEARING, BALL	1	1						
15	2	172422-73500	BEARING, NEEDLE	1	1						
16	2	172422-73520	SPRING	3	3						
17	2	172422-73530	PLUG	1	1						
18	2	172422-73530	PLUG	1	1						
19	2	172422-73540	BOLT	5	5						
20	2	172422-73550	PLUG	4	4						
21	2	172422-73560	SCREW	1	1						
22	2	172458-73560	HOLDER, SPRING	1	1						
23	2	172458-73570	GUIDE, SPRING	1	1						
24	2	172422-73580	COUPLING	1	1						
25	2	172422-73590	COLLAR	1	1						
26	2	172422-73610	BOLT	3	3						
27	2	172458-73620	BLOCK ASSY, VALVE	1	1						
27-1	2	172458-73621	BLOCK ASSY, VALVE	1	1						N
		(A=*2014.10.) (B=*2014.10.)									
27A	3	172458-73680	VALVE ASSY	1	1						1
27B	3	172458-73690	VALVE ASSY	1	1						2
28	3	172422-73550	PLUG	7	7						
29	3	172422-73620	SPRING	1	1						
30	3	172422-73630	FILTER	1	1						
31	3	172458-73630	PLUG	1	1						
32	3	172422-73640	ADJUSTER KIT	1	1						
33	3	172458-73640	PLUG	1	1						
34	3	172422-73650	PLUG	2	2						
35	3	172422-73660	BOLT	1	1						
36	3	172422-73670	CLAMP	1	1						
37	3	24311-000100	O-RING, 1AP10.0	1	1						
38	3	24315-000080	O-RING, 1BP8.0	1	1						
39	3	24315-000140	O-RING, 1BP14.0	1	1						
40	2	172458-73660	SHAFT	1	1						
41	2	22212-080000	WASHER 8	3	3						
42	2	22242-000250	RING, 25	1	1						
43	2	22252-000520	RING, 52	1	1						
44	2	22351-060016	PIN, SPRING 6.0X16	1	1						
45	2	26711-080002	NUT, M8	1	1						

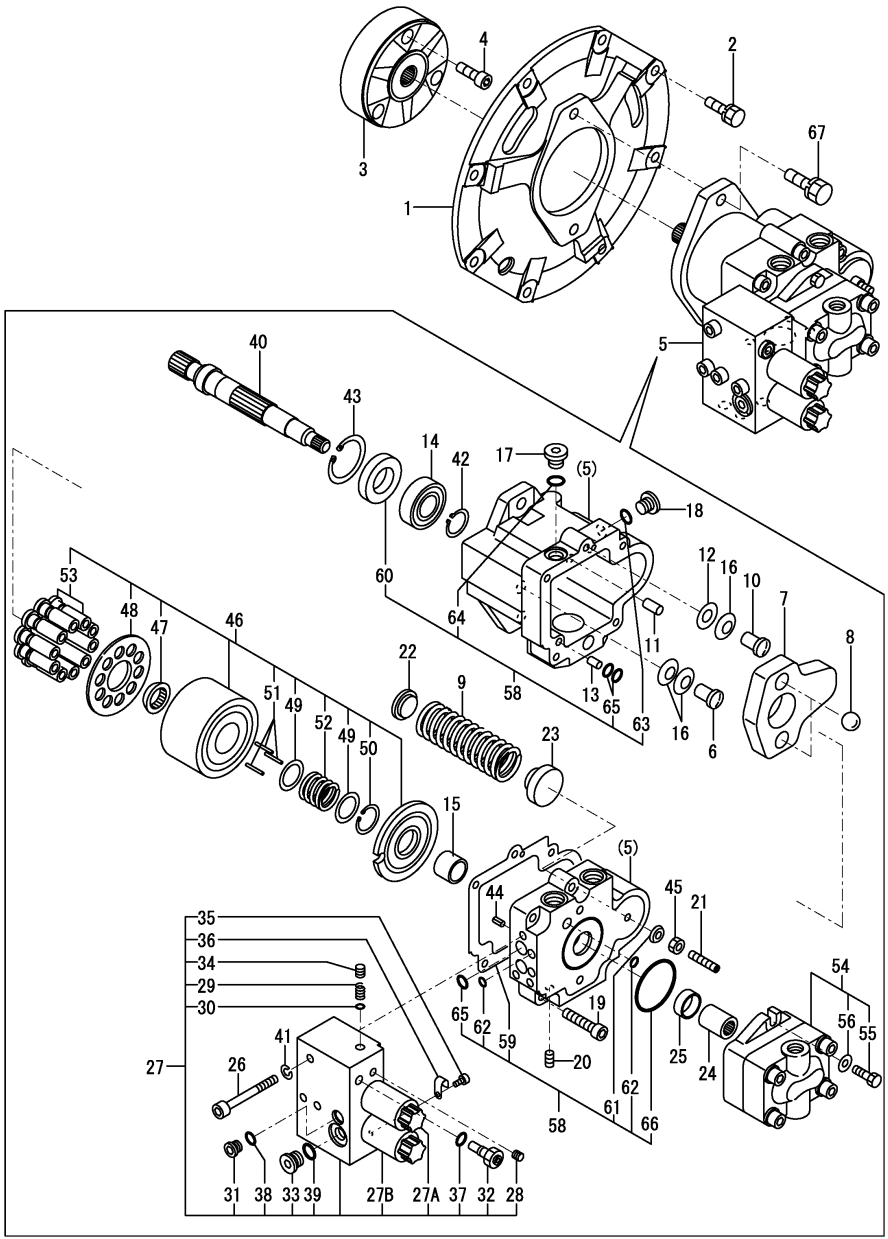
Remarks  
 (1)For second gear traveling.  
 (2)For safety lock.

Fig.40. HYD.OIL PUMP & JOINT

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

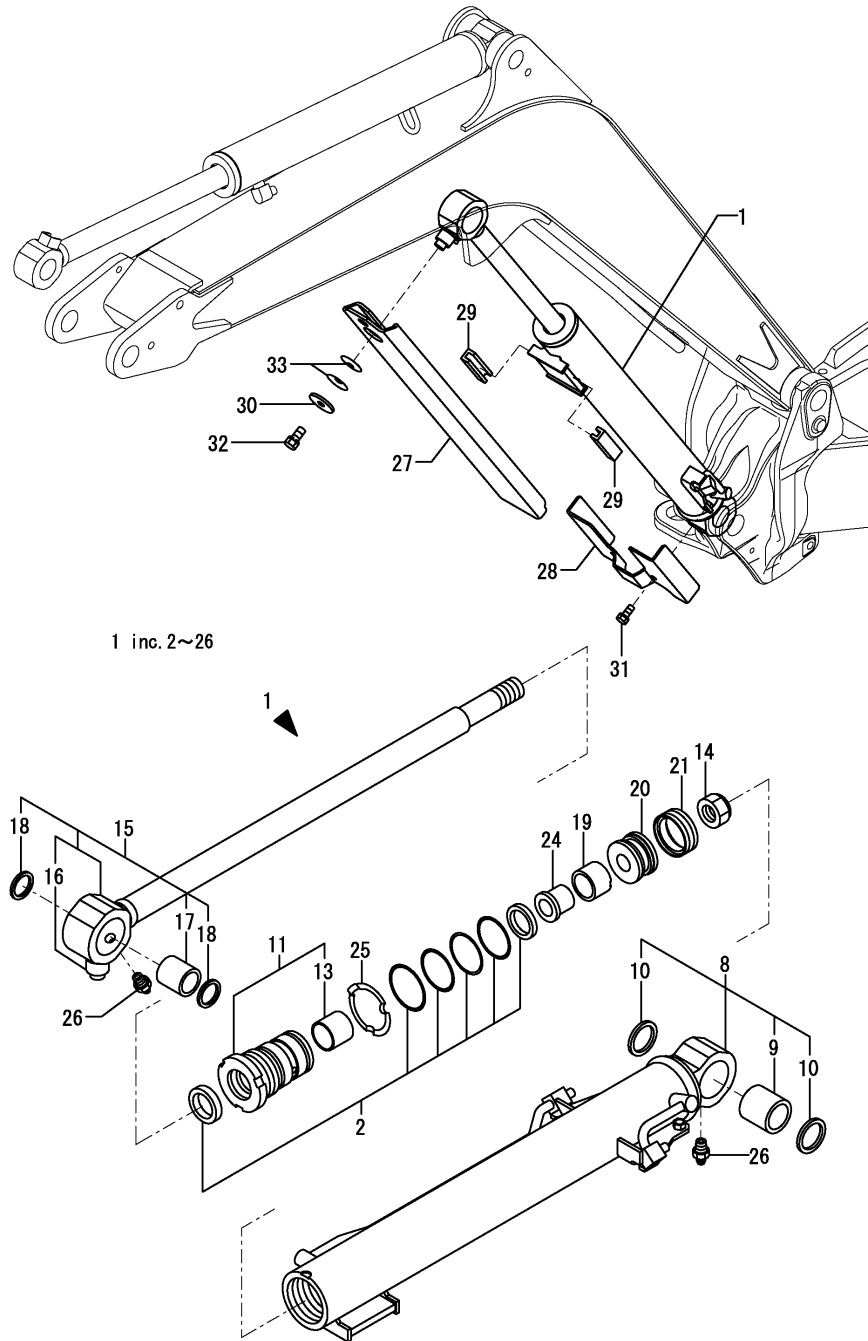
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
46	2	172448-73110	CYLINDER BARREL KIT	1	1						
47	3	172422-73130	HOLDER, BARREL	1	1						
48	3	172448-73150	HOLDER,SHOE	1	1						
49	3	172448-73170	RETAINER	2	2						
50	3	172448-73190	SNAP RING	1	1						
51	3	172458-73530	NEEDLE	3	3						
52	3	172458-73540	SPRING	1	1						
53	3	172448-73120	PISTON,PUMP ASSY	1	1						
54	2	172448-73140	PUMP ASSY,GEAR	1	1						
55	3	172450-73120	BOLT	2	2						
56	3	172450-73130	WASHER	2	2						
58	2	172448-73130	SEAL SET, PUMP	1	1						
59	3	172422-73170	GASKET	1	1						
60	3	172422-73510	SEAL, OIL	1	1						
61	3	172422-73570	WASHER	1	1						
62	3	24315-000080	O-RING, 1BP8.0	2	2						
63	3	24315-000110	O-RING, 1BP11.0	1	1						
64	3	24315-000110	O-RING, 1BP11.0	1	1						
65	3	24315-000120	O-RING, 1BP12.0	3	3						
66	3	24325-000550	O-RING, 1BG55.0	1	1						
67	1	26013-120352	BOLT, M12X 35	2	2						



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

Fig.41. BOOM CYLINDER



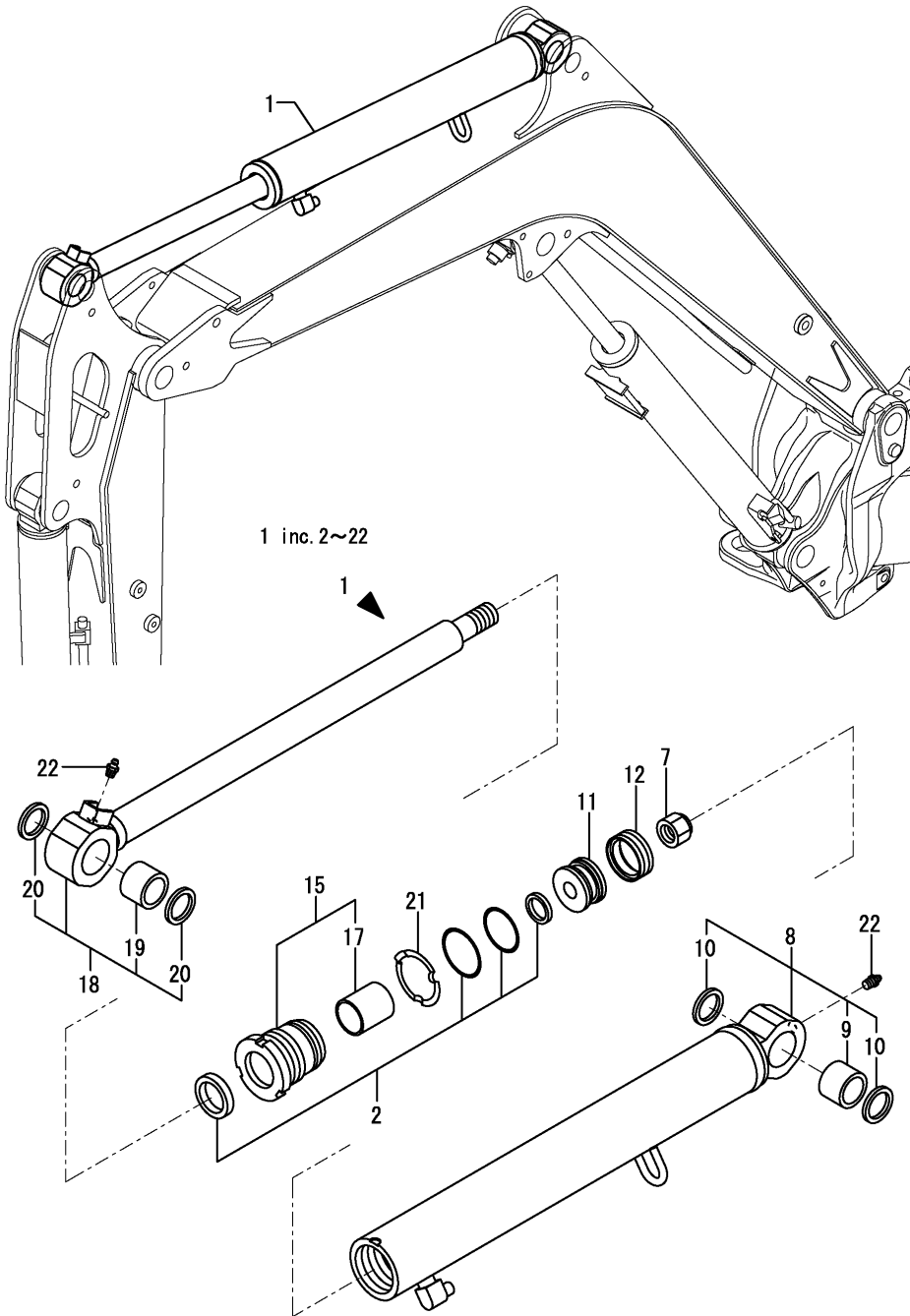
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-72100-1	CYLINDER ASSY, BOOM	1	1						
2	2	172449-72010	SEAL SET, HEAD 55 30	1	1						
8	2	172448-72280-1	TUBE ASSY, BOOM	1	1						
9	3	172141-72561	BUSH (35-45-30)	1	1						
10	3	172448-81610	SEAL, DUST 35X45X4	2	2						
11	2	172449-72110	HEAD 55-30 ASSY	1	1						
13	3	24550-030300	BUSH, 30X30	1	1						
14	2	172171-72130	NUT, M24	1	1						
15	2	172448-72290	ROD ASSY,BOOM	1	1						
16	4	172146-72211	SEAT, SCREW M10	1	1						
17	3	172141-72561	BUSH (35-45-30)	1	1						
18	3	172448-81610	SEAL, DUST 35X45X4	2	2						
19	2	172448-72270	PLUNGER, CUSHION 41	1	1						
20	2	172449-72311	PISTON 55(24-28)	1	1						
21	2	172449-72321	GASKET ASSY, RGU55	1	1						
24	2	172449-72350	COLLAR, 41	1	1						
25	2	172173-72550	ROCK WASHER 55	1	1						
26	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						
27	1	172448-72190-1	COVER, SLIDE	1	1						
28	1	172448-72240-1	COVER, HOSE	1	1						
29	1	172186-72480	GUIDE, SLIDE	2	2						
30	1	22157-100000	WASHER, 10	1	1						
31	1	26013-080162	BOLT, M8X 16	2	2						
32	1	26013-100202	BOLT, M10X 20	1	1						
33	1	933168-14170	SPRING	2	2						



Fig.42. ARM CYLINDER



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

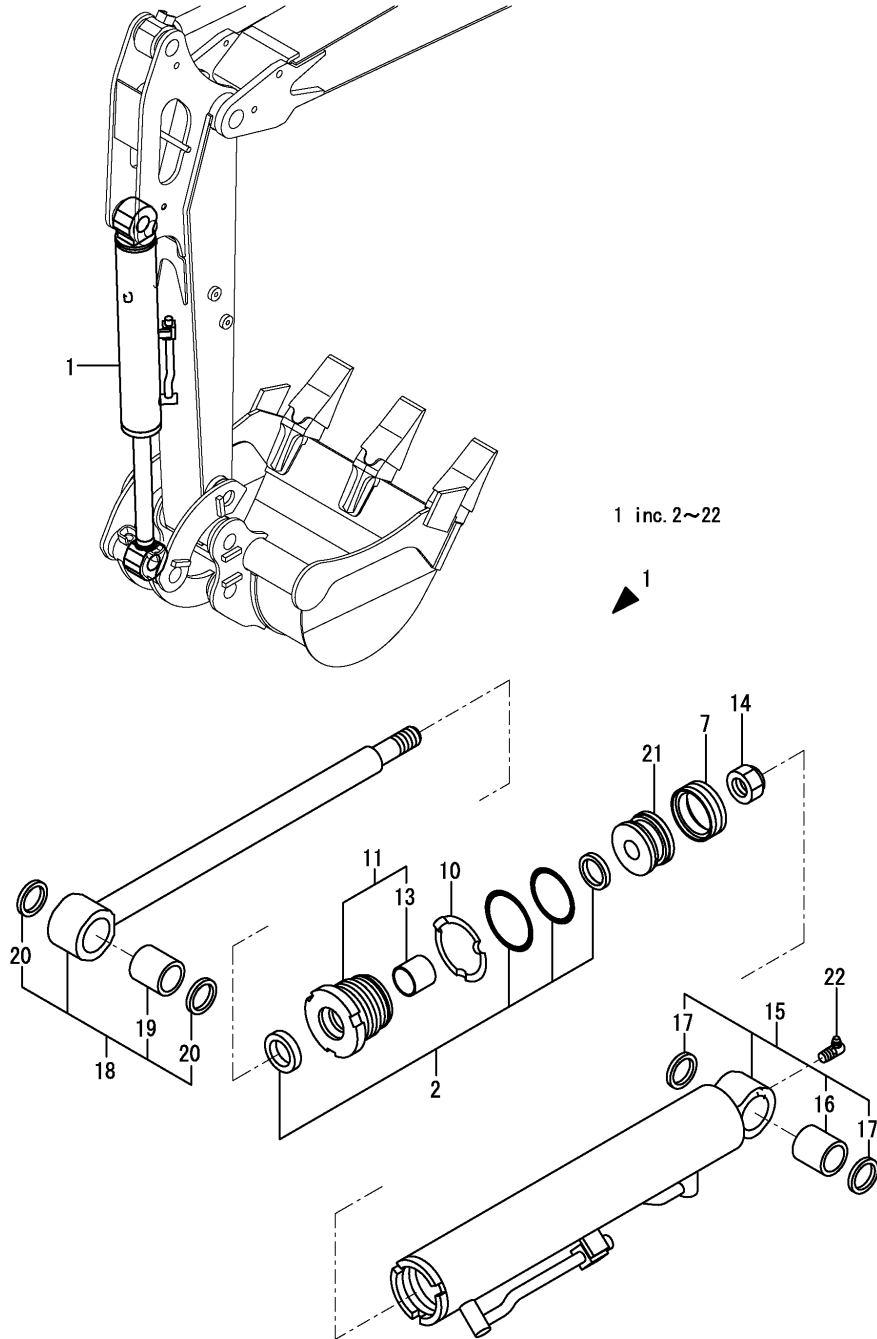
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-72300-1	CYLINDER, ARM	1	1						
2	2	172449-72020	SEAL SET, HEAD 55 35	1	1						
7	2	172171-72130	NUT, M24	1	1						
8	2	172448-72350-1	TUBE ASSY, ARM	1	1						
9	3	172149-72440	BUSH A 30X30,PIN	1	1						
10	3	172448-81600	SEAL, DUST 30X40X4	2	2						
11	2	172449-72311	PISTON 55(24-28)	1	1						
12	2	172449-72321	GASKET ASSY, RGU55	1	1						
15	2	172449-72410	HEAD CMP B,55-35	1	1						
17	3	24550-035300	BUSH, 35X30	1	1						
18	2	172449-72490	ROD ASSY,ARM	1	1						
19	3	172149-72440	BUSH A 30X30,PIN	1	1						
20	3	172448-81600	SEAL, DUST 30X40X4	2	2						
21	2	172173-72550	ROCK WASHER 55	1	1						
22	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						

Fig.43. BUCKET CYLINDER

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

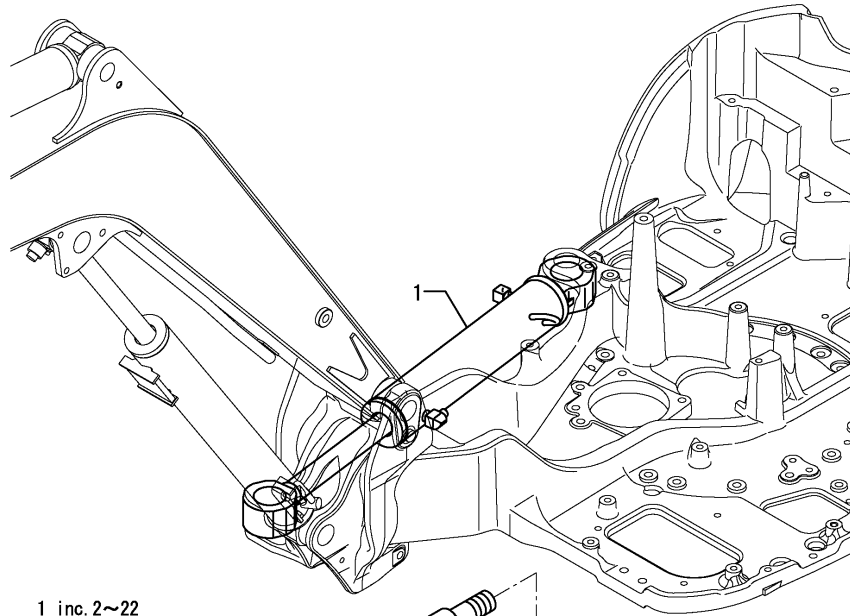


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172449-72550-1	CYLINDER ASSY	1	1						
2	2	172449-72030	SEAL SET, HEAD 55 30	1	1						
7	2	172449-72321	GASKET ASSY, RGU55	1	1						
10	2	172173-72550	ROCK WASHER 55	1	1						
11	2	172449-72560	HEAD CMP 55 30	1	1						
13	3	24550-030300	BUSH, 30X30	1	1						
14	2	172141-72580	NUT, M20	1	1						
15	2	172449-72600-1	TUBE ASSY, BUCKET	1	1						
16	3	172149-72440	BUSH A 30X30,PIN	1	1						
17	3	172448-81600	SEAL, DUST 30X40X4	2	2						
18	2	172449-72640	ROD ASSY,BUCKET	1	1						
19	3	172149-72440	BUSH A 30X30,PIN	1	1						
20	3	172448-81600	SEAL, DUST 30X40X4	2	2						
21	2	172449-72681	PISTON 55(20-28	1	1						
22	2	24761-050000	NIPPLE, GREASE C	1	1						

Fig.44. SWING CYLINDER

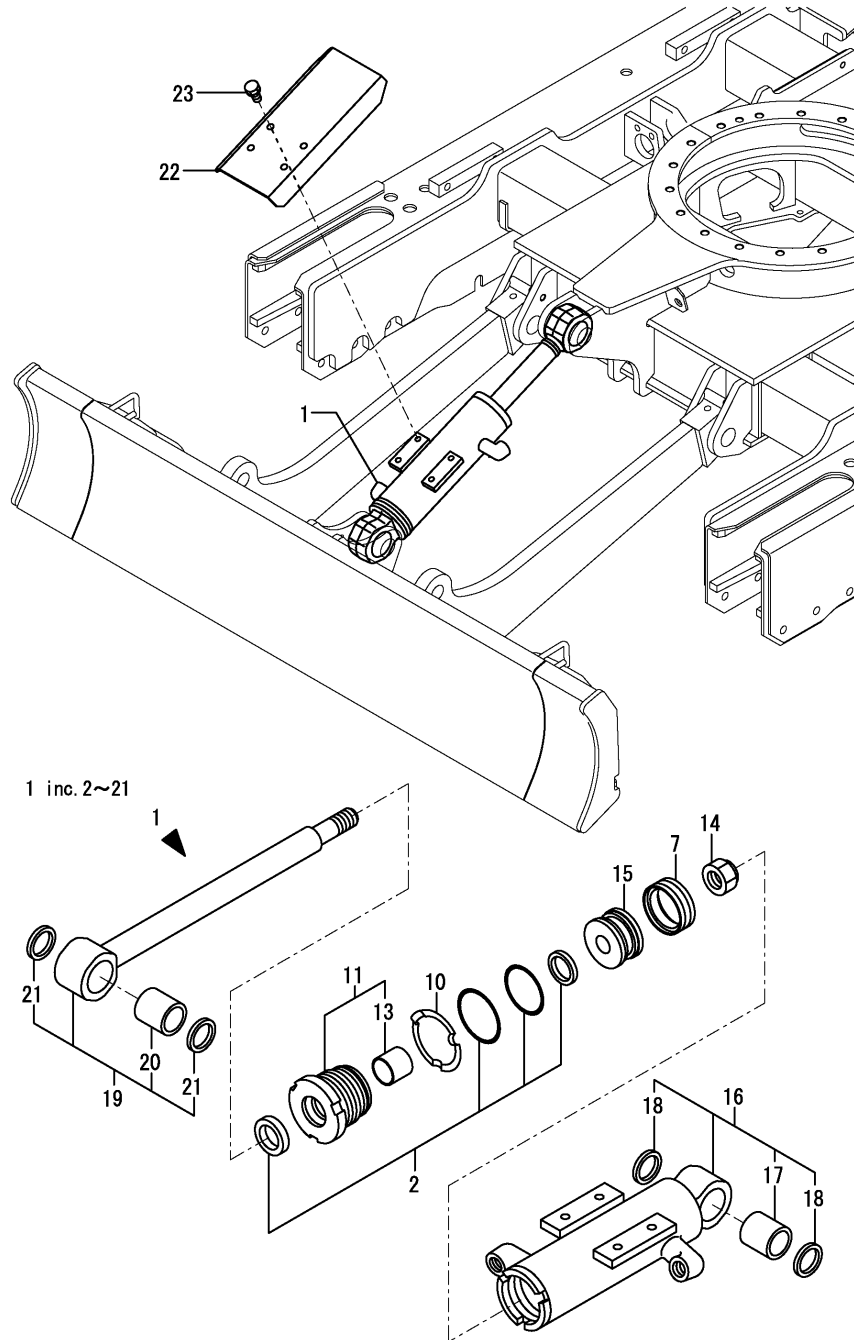
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-72600-1	CYLINDER ASSY, SWING	1	1						
1-1	1	172448-72600-2	CYLINDER ASSY, SWING	1	1						S
		(A=M/#28166) (B=M/#28166)									
2	2	172449-72040	SEAL SET, HEAD 65 35	1	1						
7	2	172171-72130	NUT, M24	1	1						
8	2	172142-72560	WASHER 65, LOCK	1	1						
9	2	172448-72660-2	TUBE ASSY, SWING	1	1						
9-1	2	172448-72660-1	TUBE ASSY, SWING	1	1						S
		(A=M/#28166) (B=M/#28166)									
10	3	172448-72650	SEAL, DUST	2	2						
11	3	172458-72740	BUSH 40X40,SO	1	1						
12	2	172448-72670	ROD ASSY,SWING	1	1						
13	3	172168-72410	BUSH 40X50X40	1	1						
14	3	172448-72650	SEAL, DUST	2	2						
15	2	172449-72810	HEAD CMP 65-35	1	1						
17	3	24550-035300	BUSH, 35X30	1	1						
18	2	172449-72951	PISTON 65(24-31	1	1						
19	2	172449-72960	GASKET RGU 65	1	1						
22	2	24761-050000	NIPPLE, GREASE C	1	1						

Fig.45. BLADE CYLINDER



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

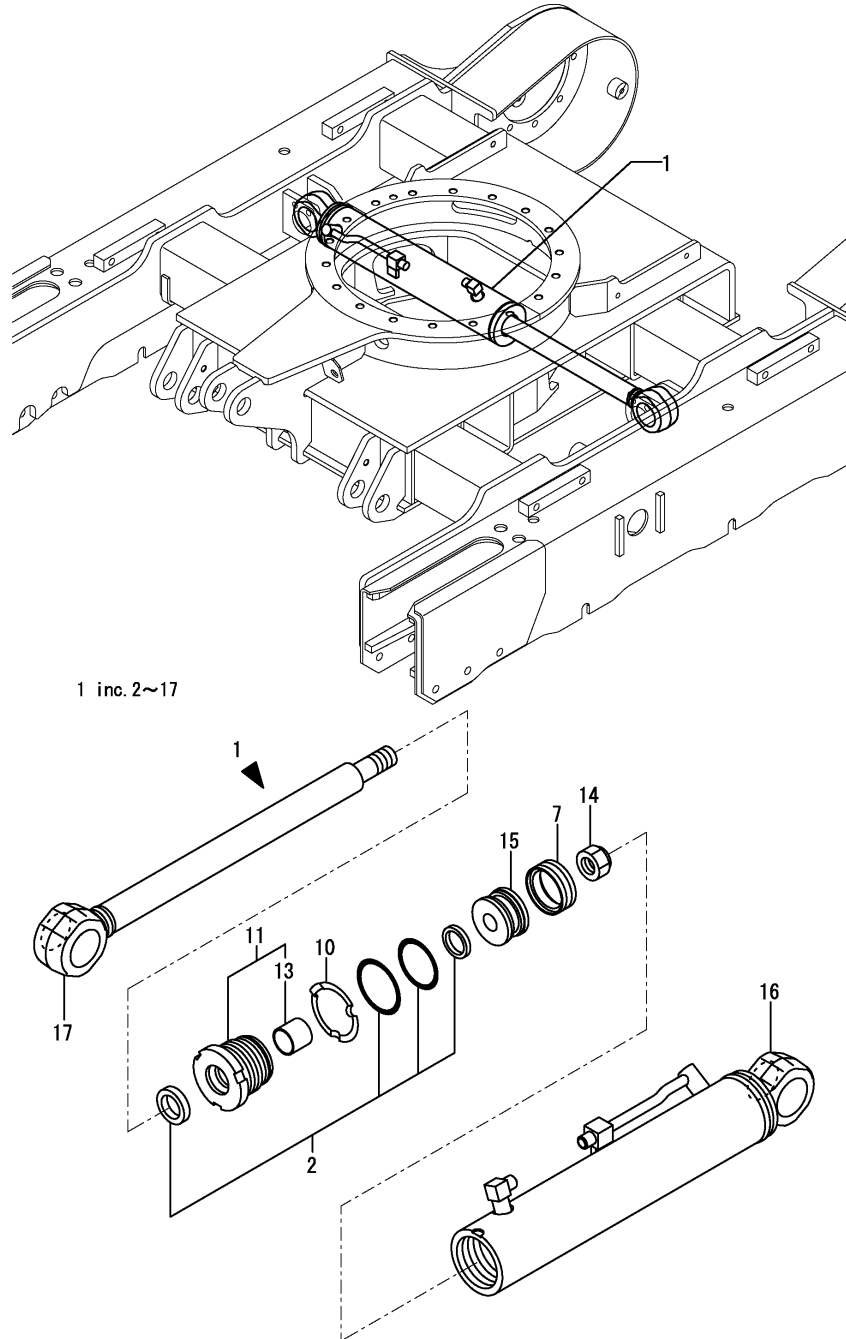
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172449-72700-1	CYLINDER ASSY, BLADE	1	1						
1-1	1	172449-72700-3	CYLINDER ASSY, BLADE	1	1						S
		(A=M/#28166) (B=M/#28166)									
2	2	172449-72030	SEAL SET, HEAD 55 30	1	1						
7	2	172449-72321	GASKET ASSY, RGU55	1	1						
10	2	172173-72550	ROCK WASHER 55	1	1						
11	2	172449-72560	HEAD CMP 55 30	1	1						
13	3	24550-030300	BUSH, 30X30	1	1						
14	2	172141-72580	NUT, M20	1	1						
15	2	172449-72681	PISTON 55(20-28	1	1						
16	2	172449-72720-2	TUBE ASSY, BLADE	1	1						
16-1	2	172449-72720-1	TUBE ASSY, BLADE	1	1						S
		(A=M/#28166) (B=M/#28166)									
17	3	172149-72440	BUSH A 30X30,PIN	1	1						
18	3	172448-81600	SEAL, DUST 30X40X4	2	2						
19	2	172449-72760	ROD ASSY,BLADE	1	1						
20	3	172149-72440	BUSH A 30X30,PIN	1	1						
21	3	172448-81600	SEAL, DUST 30X40X4	2	2						
22	1	172447-72790-1	PROTECTOR (GREEN:82)	1	1						
22-1	1	172447-72790-3	PROTECTOR (GRAY:49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
23	1	26013-080162	BOLT, M8X 16	4	4						

Fig.46. VARIABLE LEG WIDEN / SHORTEN CYLINDER

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



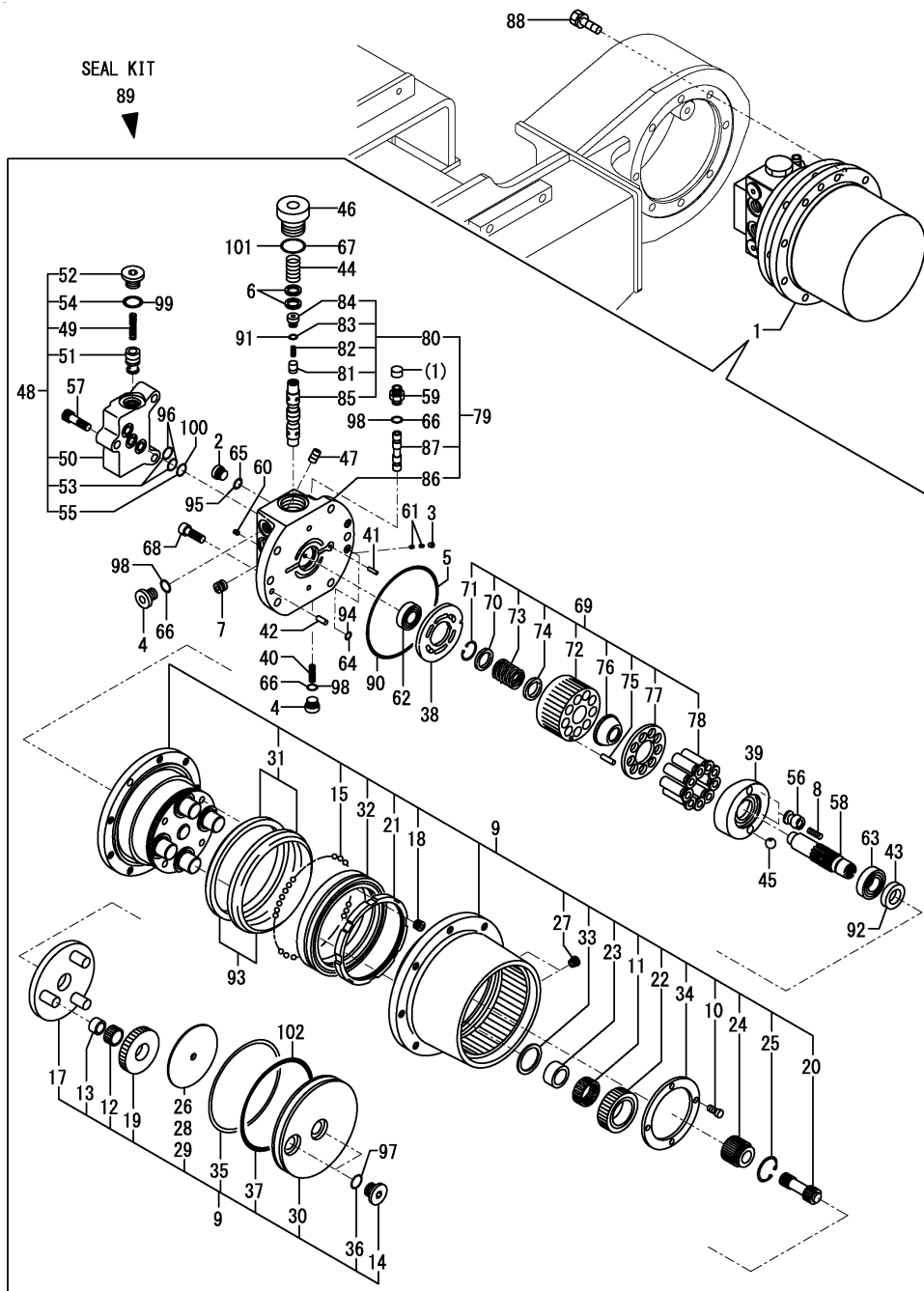
1 inc. 2~17

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-72900-1	CYLINDER ASSY	1	1						
1-1	1	172448-72900-2	CYLINDER ASSY	1	1						S
		(A=M/#28166) (B=M/#28166)									
2	2	172449-72030	SEAL SET, HEAD 55 30	1	1						
7	2	172449-72321	GASKET ASSY, RGU55	1	1						
10	2	172173-72550	ROCK WASHER 55	1	1						
11	2	172449-72560	HEAD CMP 55 30	1	1						
13	3	24550-030300	BUSH, 30X30	1	1						
14	2	172141-72580	NUT, M20	1	1						
15	2	172449-72681	PISTON 55(20-28	1	1						
16	2	172448-72910-1	TUBE, VARIABLE	1	1						
16-1	2	172448-72910-2	TUBE, VARIABLE	1	1						S
		(A=M/#28166) (B=M/#28166)									
17	2	172448-72940	ROD,S/W	1	1						

Fig.47. TRAVEL MOTOR

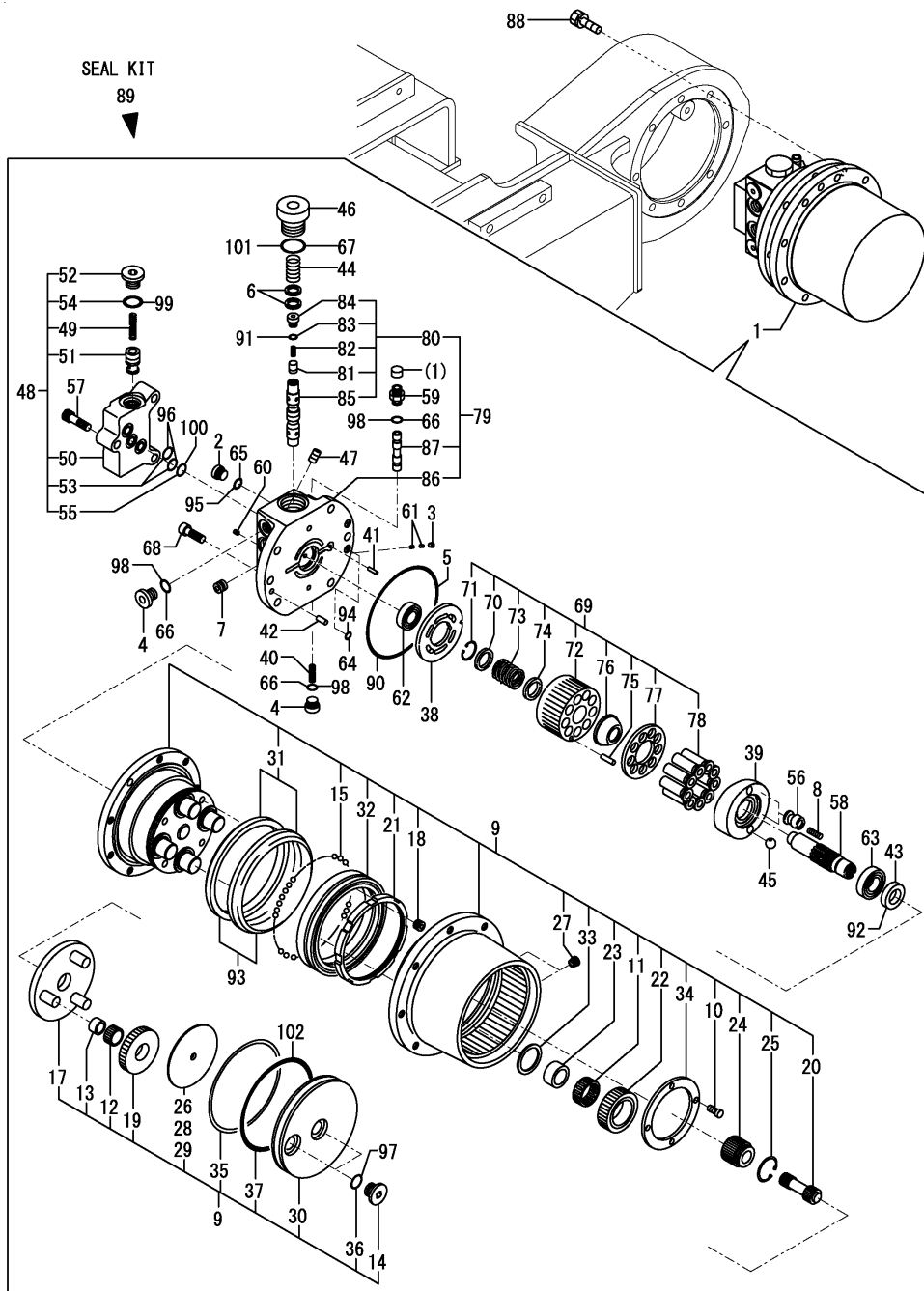
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-73300	MOTOR ASSY,TRAVEL	2	2						
1-1	1	172448-73301	MOTOR ASSY, TRAVEL	2	2						N
		(A=M/#27536) (B=M/#27536)									
2	2	1A6240-37360	PLUG	4	4						
3	2	172147-70220	PLUG	4	4						
4	2	172148-70301	PLUG	6	6						
5	2	172141-70370	O-RING	2	2						
6	2	172141-70450	SEAT, SPRING	4	4						
7	2	172162-70780	PLUG	2	2						
8	2	172168-71950	SPRING	4	4						
9	2	172448-73320	GEAR, REDUCTION	2	2						
10	3	172141-70110	SCREW	8	8						
11	3	172147-70120	GAUGE ASSY	8	8						
12	3	172141-70150	GAUGE, W/ROLLER	6	6						
13	3	172141-70160	RACE, INNER	6	6						
14	3	172148-70301	PLUG	4	4						
15	3	172122-70350	BALL, STEEL	218	218						
17	3	172448-73330	HOLDER	2	2						
18	3	172450-73330	PLUG	4	4						
19	3	172448-73340	GEAR, PLANETARY	6	6						
20	3	172448-73350	GEAR, DRIVE	2	2						
21	3	172456-73350	NUT, RING	2	2						
22	3	172456-73360	GEAR, PLANETARY	8	8						
23	3	172456-73370	INNER RACE	8	8						
24	3	172456-73380	GEAR, SUN	2	2						
25	3	172456-73390	SNAP RING	2	2						
26	3	172456-73420	THRUST PLATE	2	2						
27	3	172122-73430	PLUG	4	4						
28	3	172456-73430	THRUST PLATE	2	2						
29	3	172456-73440	THRUST PLATE	2	2						
30	3	172456-73450	COVER	2	2						
31	3	172183-73510	SEAL, FLOATING	2	2						
32	3	172183-73520	BEARING	2	2						
33	3	172183-73560	WASHER, THRUST	8	8						
34	3	172183-73570	PLATE, THRUST	2	2						
35	3	172183-73660	WIRE	2	2						
36	3	24315-000110	O-RING, 1BP11.0	4	4						
37	3	24315-001300	O-RING, 1BP130.0	2	2						
38	2	172638-73330	PLATE, VALVE	2	2						
39	2	172448-73360	PLATE	2	2						
40	2	172421-73400	SPRING	2	2						
41	2	172122-73470	PIN	2	2						
42	2	172122-73480	PIN	4	4						
43	2	172450-73490	SEAL, OIL	2	2						
44	2	172456-73500	SPRING	4	4						
44-1	2	172448-73500	SPRING	4	4						N
		(A=M/#27536) (B=M/#27536)									
45	2	172450-73510	BALL, STEEL	4	4						
46	2	172456-73510	CAP	4	4						
47	2	172456-73520	ORIFICE	4	4						
48	2	172456-73540	VALVE ASSY	2	2						

Fig.47. TRAVEL MOTOR



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

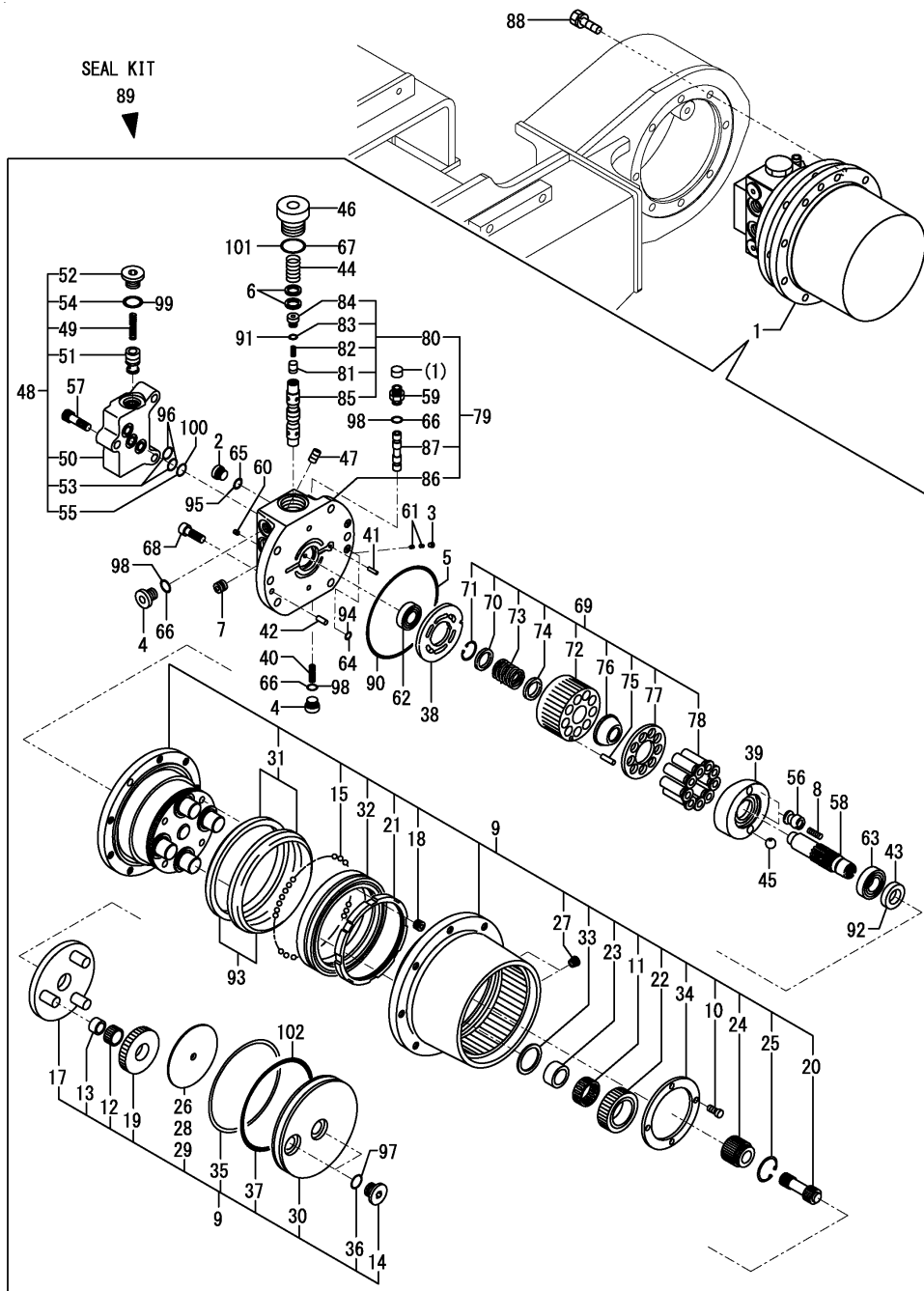
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
49	3	172148-71580	SPRING	4	4						
50	3	172456-73550	BODY, VALVE	2	2						
51	3	172456-73560	CHECK VALVE	4	4						
52	3	172183-73770	PLUG	4	4						
53	3	24315-000100	O-RING, 1BP10.0	4	4						
54	3	24315-000110	O-RING, 1BP11.0	4	4						
55	3	24315-000120	O-RING, 1BP12.0	2	2						
56	2	172450-73550	PISTON ASSY	4	4						
57	2	172456-73570	BOLT, SOCKET HEAD	6	6						
58	2	172183-73670	SHAFT	2	2						
59	2	172183-73780	PLUG	2	2						
60	2	172183-73870	PLUG	4	4						
61	2	172312-74790	ORIFICE	8	8						
62	2	24101-060024	BEARING, BALL 6002	2	2						
63	2	24101-060044	BEARING, BALL 6004	2	2						
64	2	24315-000070	O-RING, 1BP7.0	6	6						
65	2	24315-000080	O-RING, 1BP8.0	4	4						
66	2	24315-000110	O-RING, 1BP11.0	8	8						
67	2	24315-000240	O-RING, 1BP24.0	4	4						
68	2	26450-080202	BOLT, M8X 20	12	12						
69	2	172448-73420	CYLINDER BLOCK KIT	2	2						
70	3	172141-70290	HOLDER, SPRING	2	2						
71	3	172141-70310	RING, SNAP	2	2						
72	3	172168-71880	BLOCK, CYLINDER	2	2						
73	3	172168-71890	SPRING	2	2						
74	3	172168-71900	SEAT, SPRING	2	2						
75	3	172168-71910	PIN	6	6						
76	3	172168-71920	HOLDER, RETAINER	2	2						
77	3	172450-73530	PLATE, RETAINER	2	2						
78	3	172450-73540	PISTON ASSY	18	18						
79	2	172448-73390	BASE PLATE KIT	2	2						
79-1	2	172448-73391	BASE PLATE KIT	2	2						N
				(A=M/#27536)	(B=M/#27536)						
80	3	172448-73370	SPOOL ASSY	2	2						
80-1	3	172448-73371	SPOOL ASSY	2	2						N
				(A=M/#27536)	(B=M/#27536)						
81	4	172141-70410	VALVE, CHECK	4	4						
82	4	172141-70420	SPRING	4	4						
83	4	172141-70440	O-RING	4	4						
84	4	172421-73380	PLUG	4	4						
85	4	172448-73380	SPOOL	2	2						
85-1	4	172448-73381	SPOOL	2	2						N
				(A=M/#27536)	(B=M/#27536)						
86	3	172456-73470	PLATE, BASE	2	2						
87	3	172456-73530	SPOOL	2	2						
88	1	26013-100252	BOLT, SPRING M10X 25	16	16						
89	1	172456-73320	SEAL SET	2	2						
90	2	172141-70370	O-RING	2	2						
91	2	172141-70440	O-RING	4	4						
92	2	172450-73490	SEAL, OIL	2	2						
93	2	172183-73510	SEAL, FLOATING	2	2						

Fig.47. TRAVEL MOTOR

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



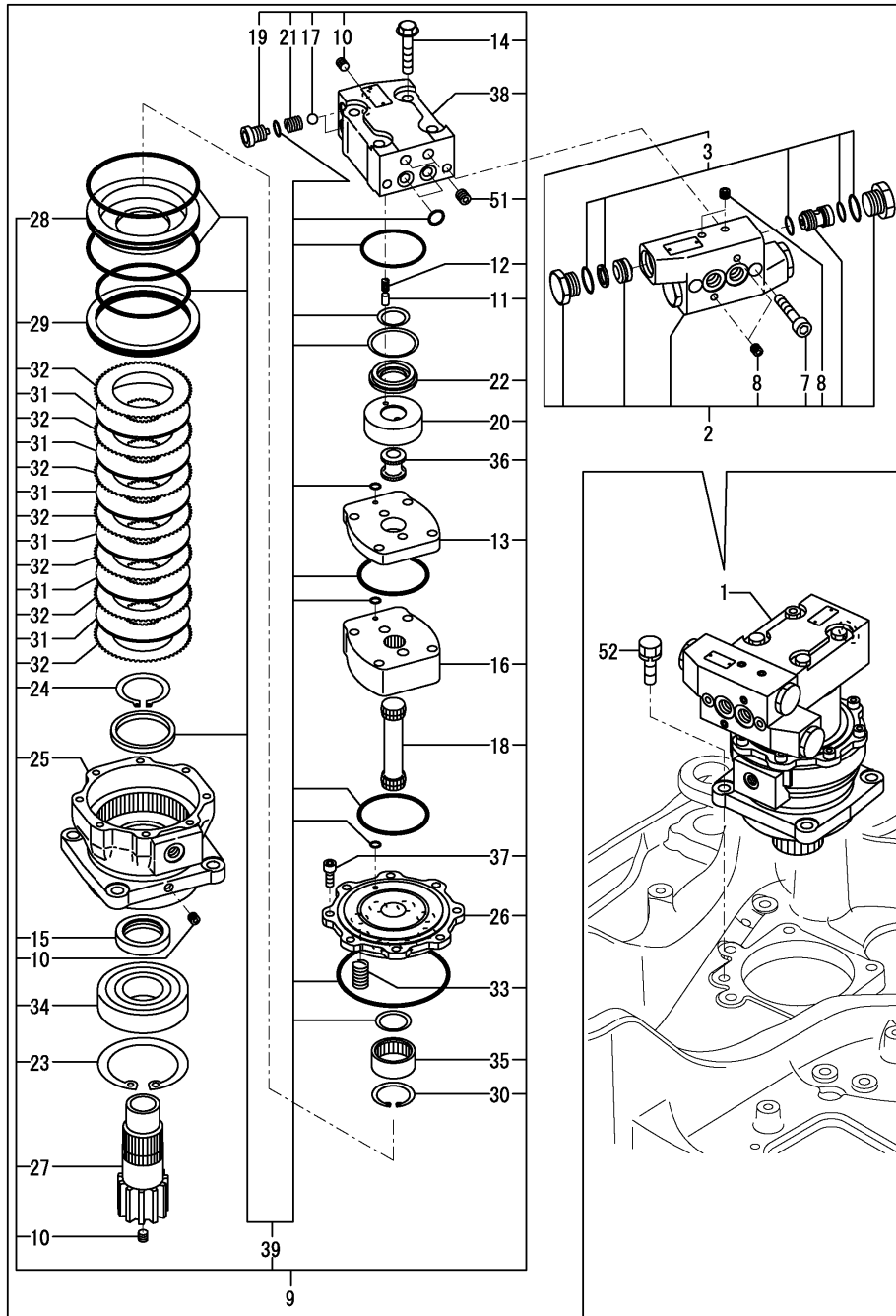
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
94	2	24315-000070	O-RING, 1BP7.0	6	6						
95	2	24315-000080	O-RING, 1BP8.0	4	4						
96	2	24315-000100	O-RING, 1BP10.0	4	4						
97	2	24315-000110	O-RING, 1BP11.0	4	4						
98	2	24315-000110	O-RING, 1BP11.0	8	8						
99	2	24315-000110	O-RING, 1BP11.0	4	4						
100	2	24315-000120	O-RING, 1BP12.0	2	2						
101	2	24315-000240	O-RING, 1BP24.0	4	4						
102	2	24315-001300	O-RING, 1BP130.0	2	2						



Fig.48. TURNING MOTOR

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

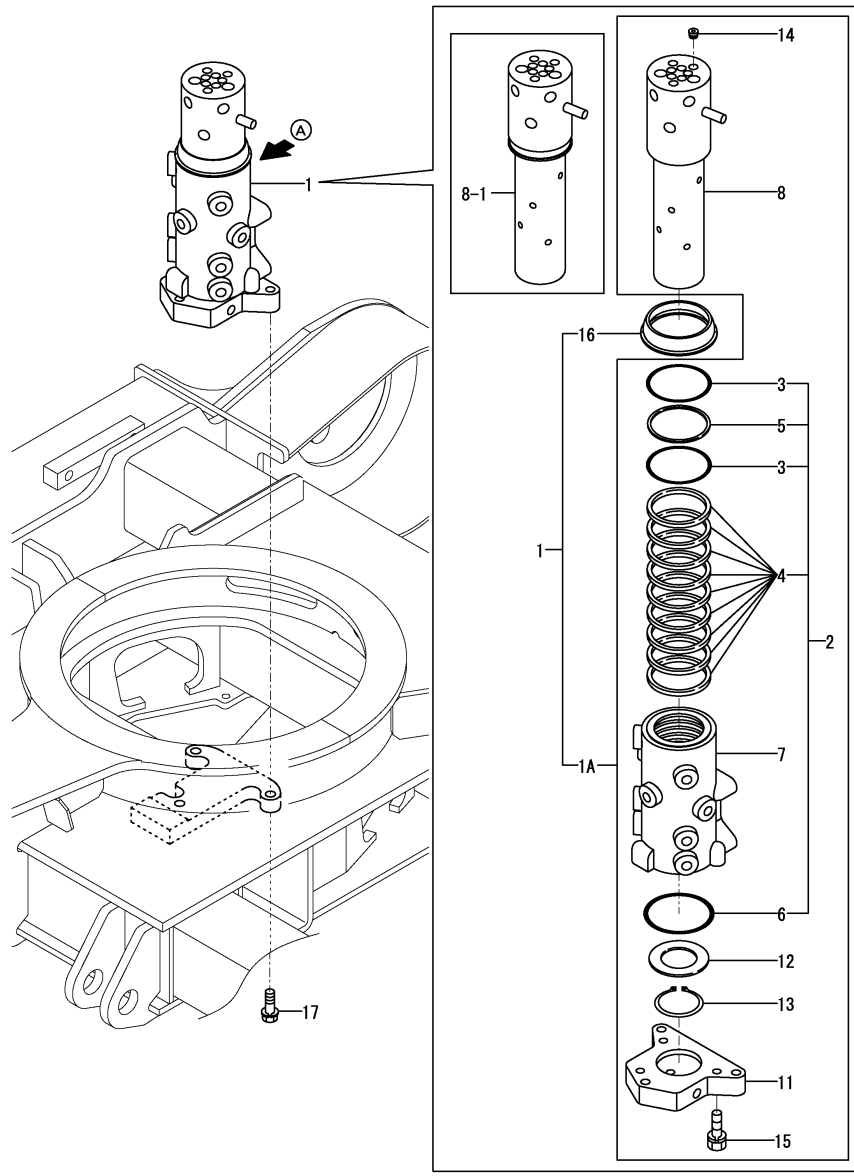


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-73310	MOTOR ASSY,SWING	1	1						
2	2	172448-73410	VALVE ASSY,SHOCKLESS	1	1						
3	3	172456-77110	SEAL SET, VALVE	1	1						
7	3	172456-77130	BOLT 6*65	2	2						
8	3	23871-010000	PLUG, R01	6	6						
9	2	172456-77140	MOTOR,SWING	1	1						
10	3	172137-70490	PLUG	4	4						
11	3	172137-70570	PIN	2	2						
12	3	172137-70580	SPRING	2	2						
13	3	172148-73350	PLATE, VALVE	1	1						
14	3	172173-73510	BOLT 12X40	4	4						
15	3	172173-73520	COLLAR	1	1						
16	3	172173-73570	GEROLLER	1	1						
17	3	172168-73580	BALL	2	2						
18	3	172173-73580	DRIVE	1	1						
19	3	172168-73590	PLUG	2	2						
20	3	172173-73590	HOLDER	1	1						
21	3	172168-73600	SPRING	2	2						
22	3	172173-73600	RING	1	1						
23	3	172173-73690	SNAP RING	1	1						
24	3	172173-73700	CIRCLIP	1	1						
25	3	172456-77150	HOUSING, BEARING	1	1						
26	3	172456-77160	FLANGE, MOUTING	1	1						
27	3	172456-77170	GEAR, PINION	1	1						
28	3	172456-77180	PISTON, HYDRAULIC	1	1						
29	3	172456-77190	RING	1	1						
30	3	172456-77200	CIRCLIP	1	1						
31	3	172456-77210	PLATE, FRICTION	6	6						
32	3	172456-77220	PLATE	7	7						
33	3	172456-77230	SPRING	8	8						
34	3	172456-77240	FRONT BEARING	1	1						
35	3	172456-77250	NEEDLE BEARING	1	1						
36	3	172141-77260	DRIVE, VALVE	1	1						
37	3	172456-77270	BOLT 6*65	8	8						
38	3	172456-77280	HOUSING, VALVE	1	1						
39	3	172456-77290	SEAL SET	1	1						
51	3	172141-77400	PLUG, BLIND	2	2						
52	1	26013-120402	BOLT, M12X 40	4	4						

Fig.49. SWIVEL JOINT(Y SPEC.)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



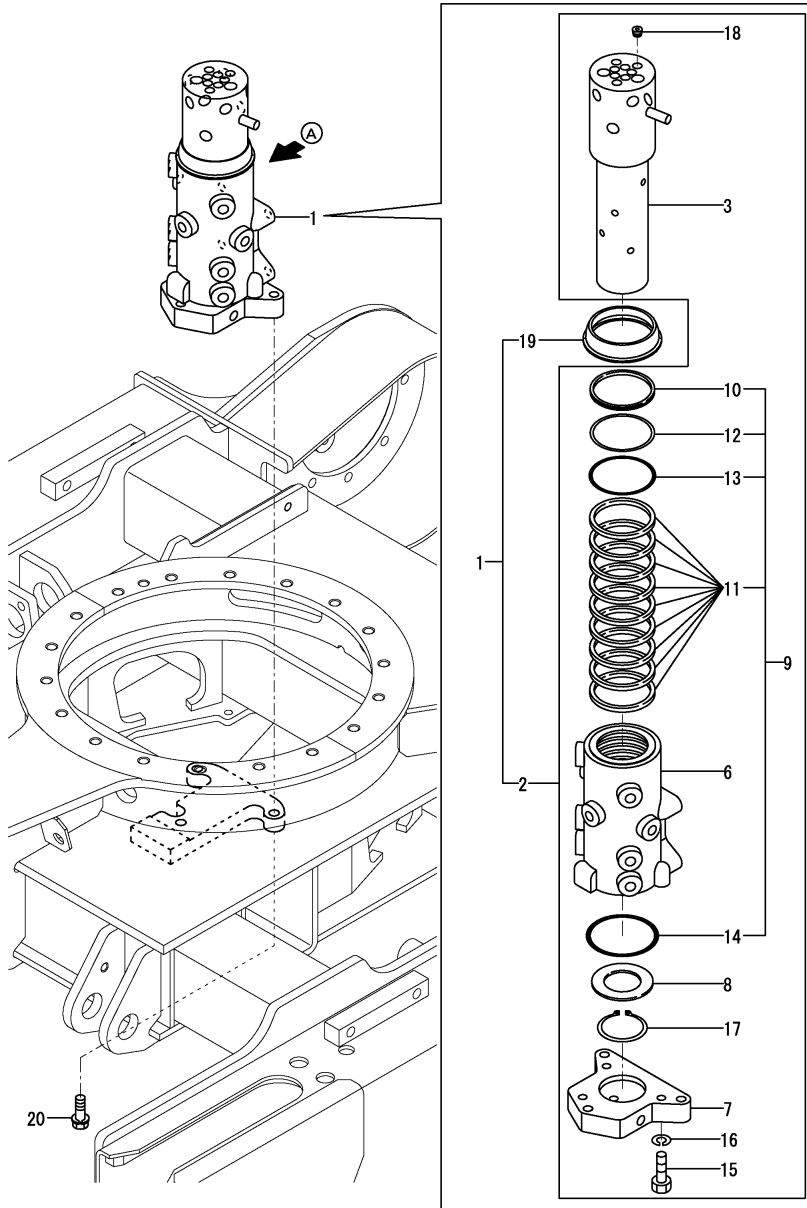
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-73850	SWIVEL ASSY	1	1						
1-1	1	172448-73840	SWIVEL ASSY	1	1						N
		(A=M/#28106) (B=M/#28106)									
1-2	1	172448-73840	SWIVEL ASSY	1	1						Z 1
		(A=*2013.02.) (B=*2013.02.)									
1A	2	172448-73851	SWIVEL ASSY	1	1						W
		(A=M/#28106) (B=M/#28106)									
2	3	172446-73900	SEAL SET, SWIVEL	1	1						
3	4	172142-73800	O-RING, 55.76X5.7	2	2						
4	4	172458-73820	SEAL, SWIVEL	9	9						
4-1	4	172447-73840	SEAL	9	9						R
		(A=M/#28370) (B=M/#28370)									
5	4	172148-73870	RING, BUCK UP	1	1						
6	4	24321-000700	O-RING, 1AG70.0	1	1						
7	3	172448-73860	HUB, SWIVEL	1	1						
8	3	172446-73871	SHAFT, SWIVEL	1	1						
8-1	3	172446-73872	SHAFT, SWIVEL	1	1						F 2
		(A=M/#28106) (B=M/#28106)									
11	3	172446-73890	FLANGE, SWIVEL	1	1						
12	3	172157-73910	SPACER, SWIVEL	1	1						
13	3	22242-000401	RING, 40	1	1						
14	3	23871-010000	PLUG, R01	8	8						
15	3	26013-080352	BOLT, SPRING M8X 35	3	3						
16	2	172448-73900	COVER, DUCT	1	1						W
		(A=M/#28106) (B=M/#28106)									
17	1	26013-100402	BOLT, SPRING M10X 40	3	3						

Remarks  
 (1)A : no label.  
 Compatible by assembly exchange with parts of Fig.76(49A) No.1.  
 The inner parts are not compatible.  
 (2)Interchangeable by simultaneous replacement with No.16.

Fig.76. (49A)SWIVEL JOINT(N SPEC.)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172A64-73790	JOINT ASSY,SWIVEL S	1	1						W	1
		(A=*2013.02.) (B=*2013.02.)										
2	2	172A64-73800	JOINT ASSY,SWIVEL S	1	1							
3	3	172A64-73810	SHAFT ASSY,SWIVEL SL	1	1							
6	3	172A64-73840	HUB,SWIVEL S	1	1							
7	3	172A64-73850	FLANGE,SWIVEL SL	1	1							
8	3	172B02-73860	SPACER, SWIVEL	1	1							
9	3	172A64-73880	SEAL KIT,SL	1	1							
9-1	3	172A64-73860	SEAL KIT, SWIVEL	1	1							N
		(A=*2014.04.) (B=*2014.04.)										
10	4	172A64-73870	RING,V	1	1							
11	4	172B02-73870	SEAL, SWIVEL	9	9							
11-1	4	172B02-73890	SEAL, SWIVEL	9	9							N
		(A=*2014.04.) (B=*2014.04.)										
12	4	172B02-73880	RING, BACKUP T3 55	1	1							
13	4	24315-000560	O-RING, 1BP56.0	1	1							
14	4	24325-000700	O-RING, 1BG70.0	1	1							
15	3	172A64-73890	BOLT,10.9 8X 40	3	3							
16	3	22217-080000	WASHER, SPRING 8	3	3							
17	3	22242-000451	RING, 45	1	1							
18	3	23871-010000	PLUG, R01	8	8							
19	2	172448-73900	COVER, DUCT	1	1							
20	1	26013-100402	BOLT, SPRING M10X 40	3	3							

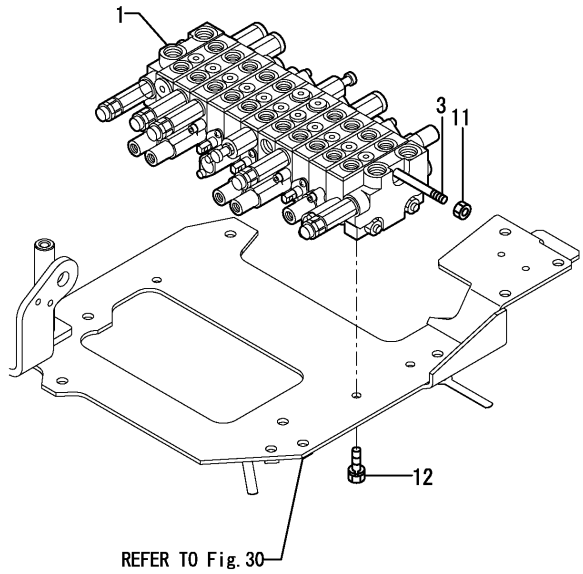
Remarks

(1)A:NACHI LABEL  
 Compatible by assembly exchange from parts of Fig.49 No.1-2.  
 The inner parts are not compatible.

Fig.50. CONTROL VALVE(1/7)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



**CONTROL VALVE ASSY**  
 172448-74100  
 Fig. No. 50 Ref. No. 1  
 INC. Fig. 50 Ref. No. 2~11.  
 Fig. 51 Ref. No. 1~31.  
 Fig. 52 Fig. No. 1~28.  
 Fig. 53 Ref. No. 1~30.  
 Fig. 54 Fig. No. 1~27.  
 Fig. 55 Fig. No. 1~24.  
 Fig. 56 Fig. No. 1~20.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-74100	VALVE ASSY,CONTROL	1	1						
1-1	1	172448-74101	VALVE ASSY, CONTROL	1	1						N
				(A=M/#27862)		(B=M/#27862)					
2	2	172448-74380	O-RING, AS1B 127	1	1						
3	2	172448-74390	BOLT L310	3	3						
4	2	172448-74400	ADJUSTER,PRESSURE P1	1	1						
5	3	172448-74110	SECTION ASSY	1	1						
6	4	172447-74250	SECTION	1	1						
7	4	172183-74350	PLUG PF1/4	1	1						
8	4	24315-000110	O-RING, 1BP11.0	1	1						
9	3	172448-74360	MAIN RELIFE VALVE	1	1						
10	2	24315-000100	O-RING, 1BP10.0	2	2						
11	2	26716-080002	NUT, M8	6	6						
12	1	26013-080162	BOLT, M8X 16	3	3						

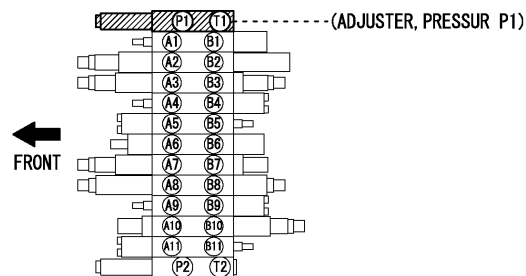
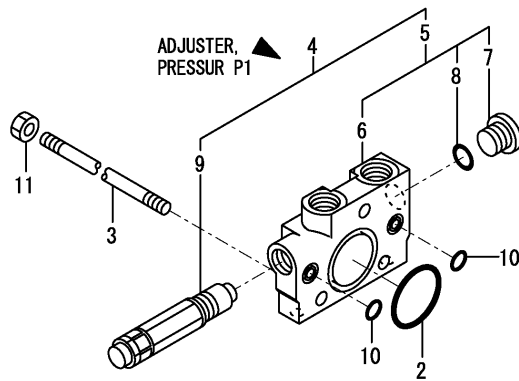
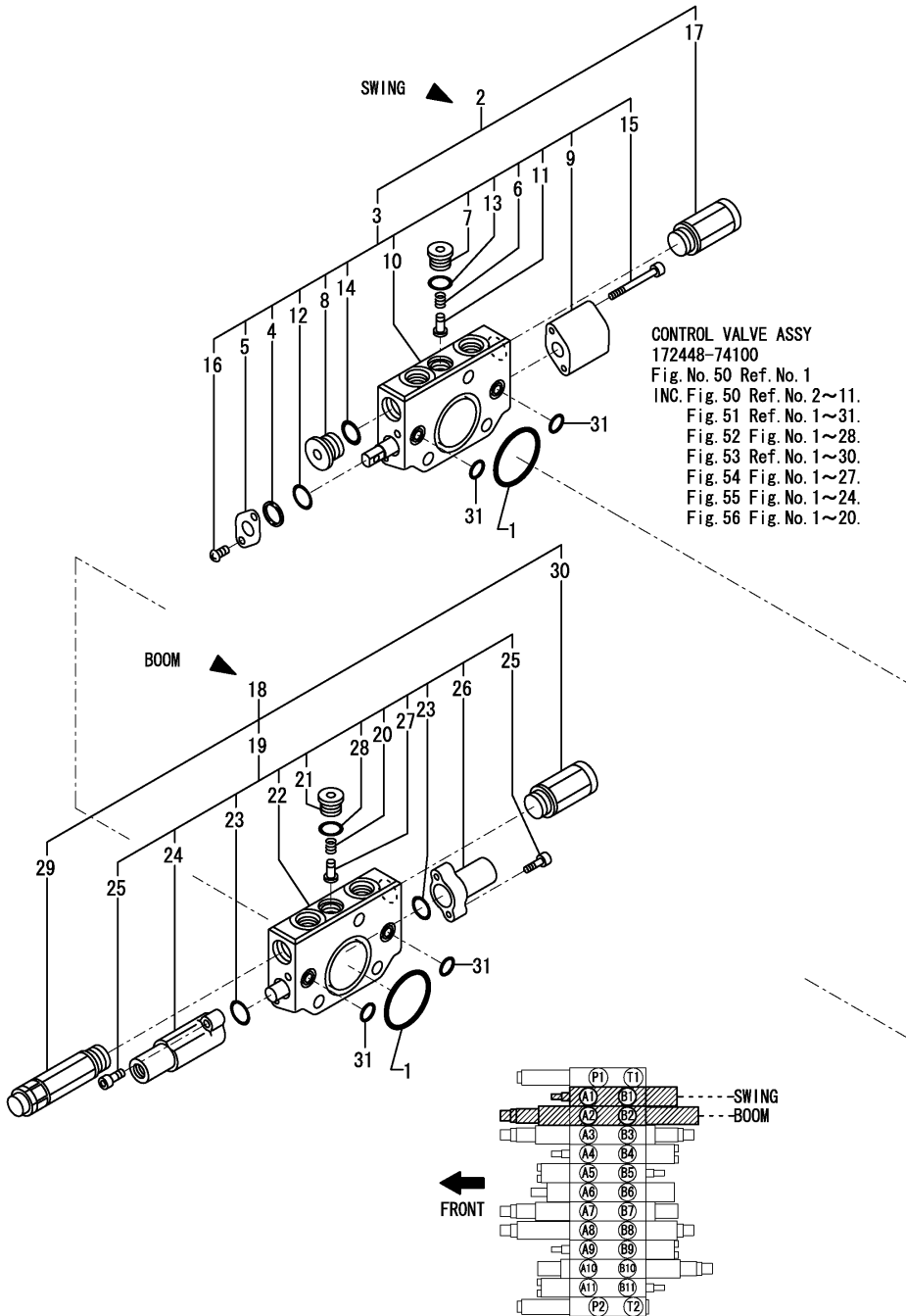


Fig.51. CONTROL VALVE(2/7)

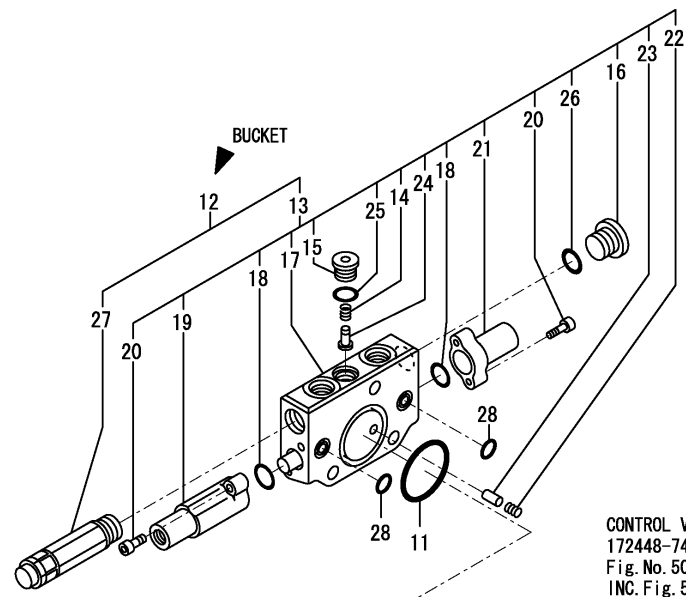
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

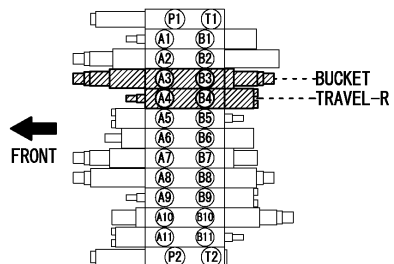
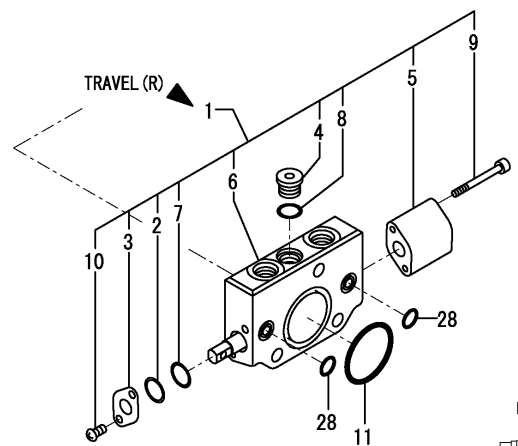


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74380	O-RING, AS1B 127	2	2						
2	2	172448-74410	SECTION, SWING	1	1						
3	3	172448-74120	SECTION ASSY, SWING	1	1						
4	4	172157-70630	BAC UP RING	1	1						
5	4	172157-70640	PLATE, O-RING	1	1						
6	4	172157-70690	SPRING, VALVE	1	1						
7	4	172157-70700	STAY, VALVE	1	1						
8	4	172157-70720	PLUG PF3/8	1	1						
9	4	172157-70820	CAP, SPRING	1	1						
10	4	172448-74130	SPOOL ASSY, SWING	1	1						
11	4	172137-74520	VALVE, CHECK	1	1						
12	4	24311-240100	O-RING, 1AP10A	1	1						
13	4	24315-000110	O-RING, 1BP11.0	1	1						
14	4	24315-000140	O-RING, 1BP14.0	1	1						
15	4	26450-050452	BOLT, M5X 45	2	2						
16	4	26557-050102	SCREW, M5X10	2	2						
17	3	172447-74230	ANTI-CAVITATION	1	1						
18	2	172448-74420	SECTION, BOOM	1	1						
18-1	2	172448-74421	SECTION, BOOM	1	1						N
		(A=M/#27862) (B=M/#27862)									
19	3	172448-74140	SECTION ASSY, BOOM	1	1						
20	4	172157-70690	SPRING, VALVE	1	1						
21	4	172157-70700	STAY, VALVE	1	1						
22	4	172448-74150	SPOOL ASSY, BOOM	1	1						
23	4	172449-74220	O-RING, AS 1A016	2	2						
24	4	172449-74270	CAP	1	1						
25	4	172449-74280	BOLT, M5 X 20	4	4						
26	4	172449-74290	CAP	1	1						
27	4	172137-74520	VALVE, CHECK	1	1						
28	4	24315-000110	O-RING, 1BP11.0	1	1						
29	3	172447-74221	PORT RELIFE VALVE	1	1						
30	3	172447-74230	ANTI-CAVITATION	1	1						
30-1	3	172456-74440	VALVE, RELIEF	1	1						N
		(A=M/#27862) (B=M/#27862)									
31	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.52. CONTROL VALVE(3/7)



**CONTROL VALVE ASSY**  
 172448-74100  
 Fig. No. 50 Ref. No. 1  
 INC. Fig. 50 Ref. No. 2~11.  
 Fig. 51 Ref. No. 1~31.  
 Fig. 52 Fig. No. 1~28.  
 Fig. 53 Ref. No. 1~30.  
 Fig. 54 Fig. No. 1~27.  
 Fig. 55 Fig. No. 1~24.  
 Fig. 56 Fig. No. 1~20.

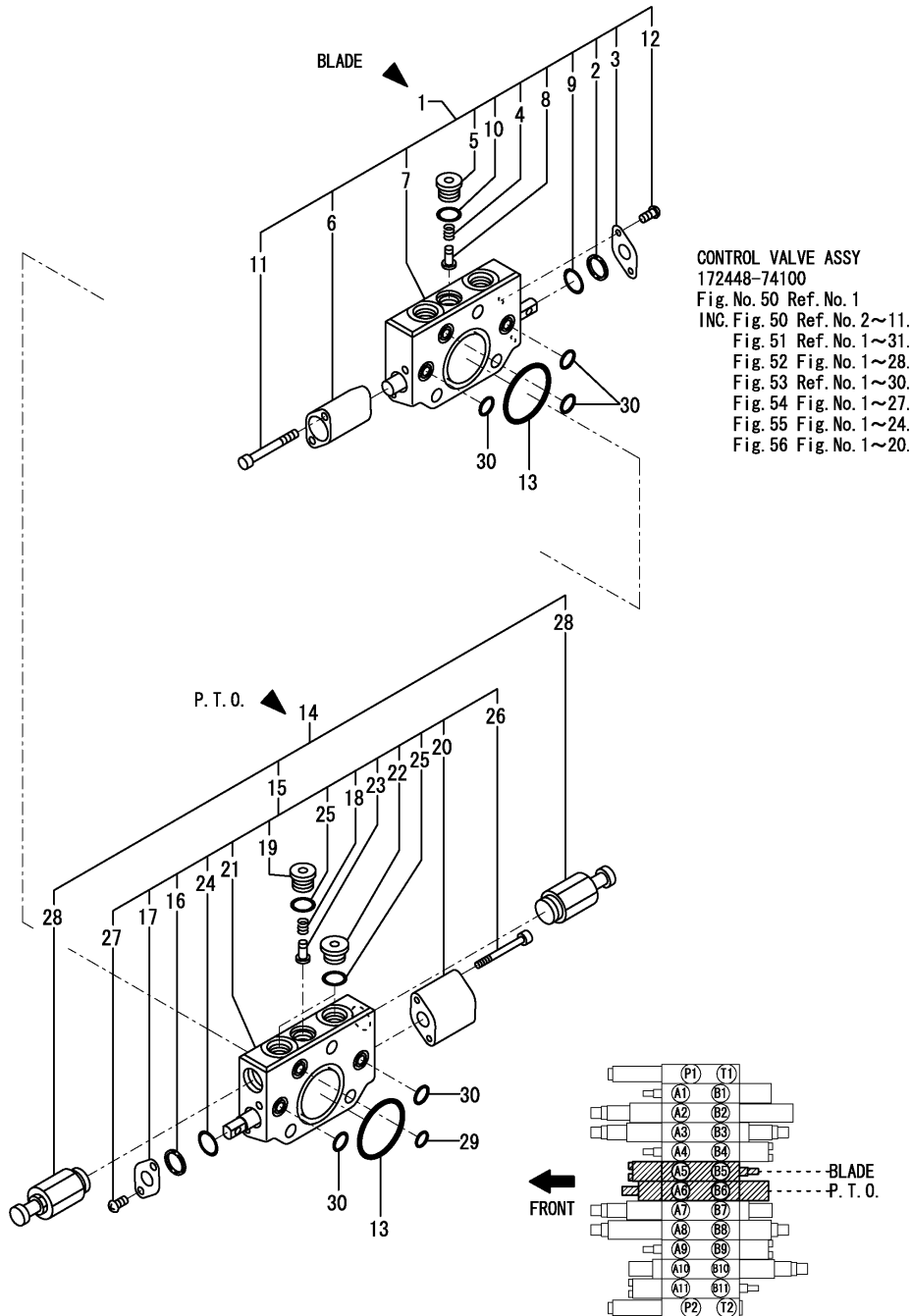


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74180	SECTION ASSY, TRAVEL	1	1						
2	3	172157-70630	BAC UP RING	1	1						
3	3	172157-70640	PLATE, O-RING	1	1						
4	3	172157-70700	STAY, VALVE	1	1						
5	3	172157-70820	CAP, SPRING	1	1						
6	3	172448-74190	SPOOL ASSY, TRAVEL	1	1						
7	3	24311-240100	O-RING, 1AP10A	1	1						
8	3	24315-000110	O-RING, 1BP11.0	1	1						
9	3	26450-050452	BOLT, M5X 45	2	2						
10	3	26557-050102	SCREW, M5X10	2	2						
11	2	172448-74380	O-RING, AS1B 127	2	2						
12	2	172448-74430	SECTION, BUCKET	1	1						
13	3	172448-74160	SECTION ASSY, BUCKET	1	1						
14	4	172157-70690	SPRING, VALVE	1	1						
15	4	172157-70700	STAY, VALVE	1	1						
16	4	172157-70720	PLUG PF3/8	1	1						
17	4	172448-74170	SPOOL ASSY, BUCKET	1	1						
18	4	172449-74220	O-RING, AS 1A016	2	2						
19	4	172449-74270	CAP	1	1						
20	4	172449-74280	BOLT, M5 X 20	4	4						
21	4	172449-74290	CAP	1	1						
22	4	172447-74300	SPRING, VALVE	1	1						
23	4	172447-74310	VALVE, CHECK	1	1						
24	4	172137-74520	VALVE, CHECK	1	1						
25	4	24315-000110	O-RING, 1BP11.0	1	1						
26	4	24315-000140	O-RING, 1BP14.0	1	1						
27	3	172448-74370	OVER LOAD RELIEF V	1	1						
28	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.53. CONTROL VALVE(4/7)

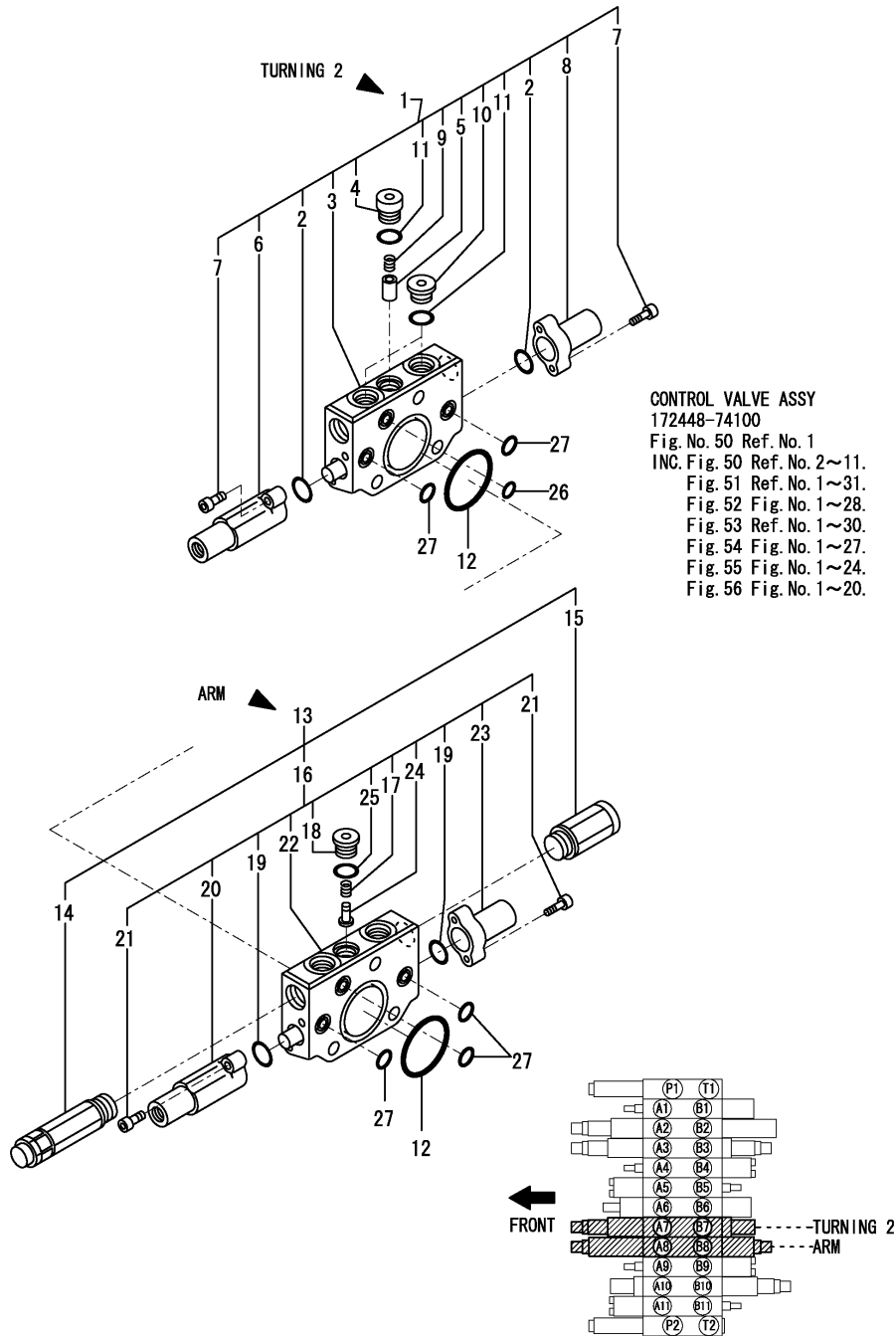


(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74200	SECTION ASSY, BLADE	1	1						
2	3	172157-70630	BAC UP RING	1	1						
3	3	172157-70640	PLATE, O-RING	1	1						
4	3	172157-70690	SPRING, VALVE	1	1						
5	3	172157-70700	STAY, VALVE	1	1						
6	3	172157-70820	CAP, SPRING	1	1						
7	3	172448-74210	SPOOL ASSY, BLADE	1	1						
8	3	172137-74520	VALVE, CHECK	1	1						
9	3	24311-240100	O-RING, 1AP10A	1	1						
10	3	24315-000110	O-RING, 1BP11.0	1	1						
11	3	26450-050452	BOLT, M5X 45	2	2						
12	3	26557-050102	SCREW, M5X10	2	2						
13	2	172448-74380	O-RING, AS1B 127	2	2						
14	2	172448-74440	SECTION, PTO	1	1						
15	3	172448-74220	SECTION ASSY, PTO	1	1						
16	4	172157-70630	BAC UP RING	1	1						
17	4	172157-70640	PLATE, O-RING	1	1						
18	4	172157-70690	SPRING, VALVE	1	1						
19	4	172157-70700	STAY, VALVE	1	1						
20	4	172157-70820	CAP, SPRING	1	1						
21	4	172448-74230	SPOOL ASSY, PTO	1	1						
22	4	172183-74350	PLUG PF1/4	2	2						
23	4	172137-74520	VALVE, CHECK	1	1						
24	4	24311-240100	O-RING, 1AP10A	1	1						
25	4	24315-000110	O-RING, 1BP11.0	3	3						
26	4	26450-050452	BOLT, M5X 45	2	2						
27	4	26557-050102	SCREW, M5X10	2	2						
28	3	172458-74740	SHUT OFF VALVE	2	2						
29	2	24315-000040	O-RING, 1BP4.0	1	1						
30	2	24315-000100	O-RING, 1BP10.0	5	5						

Fig.54. CONTROL VALVE(5/7)



CONTROL VALVE ASSY  
 172448-74100  
 Fig. No. 50 Ref. No. 1  
 INC. Fig. 50 Ref. No. 2~11.  
 Fig. 51 Ref. No. 1~31.  
 Fig. 52 Fig. No. 1~28.  
 Fig. 53 Ref. No. 1~30.  
 Fig. 54 Fig. No. 1~27.  
 Fig. 55 Fig. No. 1~24.  
 Fig. 56 Fig. No. 1~20.

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

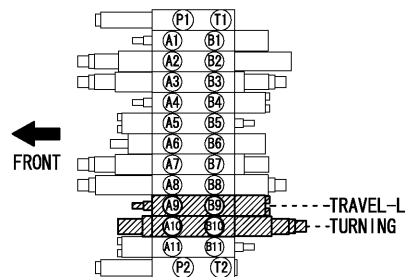
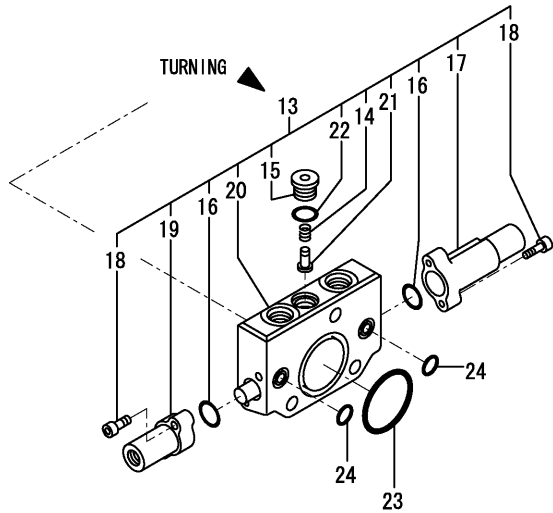
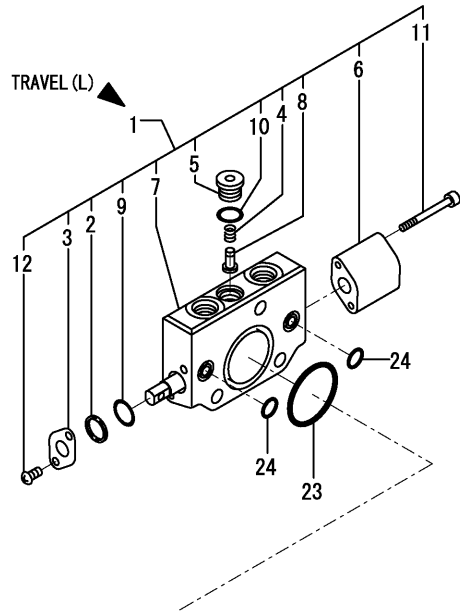
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74240	SECTION ASSY	1	1						
2	3	172449-74220	O-RING, AS 1A016	2	2						
3	3	172448-74250	SPOOL ASSY, SWING	1	1						
4	3	172448-74260	CAP, VALVE	1	1						
5	3	172448-74270	CHECK VALVE C	1	1						
6	3	172449-74270	CAP	1	1						
7	3	172449-74280	BOLT, M5 X 20	4	4						
8	3	172449-74290	CAP	1	1						
9	3	172447-74300	SPRING, VALVE	1	1						
10	3	172183-74350	PLUG PF1/4	2	2						
11	3	24315-000110	O-RING, 1BP11.0	3	3						
12	2	172448-74380	O-RING, AS1B 127	2	2						
13	2	172448-74450	SECTION, ARM	1	1						
14	3	172447-74221	PORT RELIFE VALVE	1	1						
15	3	172447-74230	ANTI-CAVITATION	1	1						
16	3	172448-74280	SECTION ASSY, ARM	1	1						
17	4	172157-70690	SPRING, VALVE	1	1						
18	4	172157-70700	STAY, VALVE	1	1						
19	4	172449-74220	O-RING, AS 1A016	2	2						
20	4	172449-74270	CAP	1	1						
21	4	172449-74280	BOLT, M5 X 20	4	4						
22	4	172448-74290	SPOOL ASSY, ARM	1	1						
23	4	172449-74290	CAP	1	1						
24	4	172137-74520	VALVE, CHECK	1	1						
25	4	24315-000110	O-RING, 1BP11.0	1	1						
26	2	24315-000040	O-RING, 1BP4.0	1	1						
27	2	24315-000100	O-RING, 1BP10.0	5	5						



Fig.55. CONTROL VALVE(6/7)

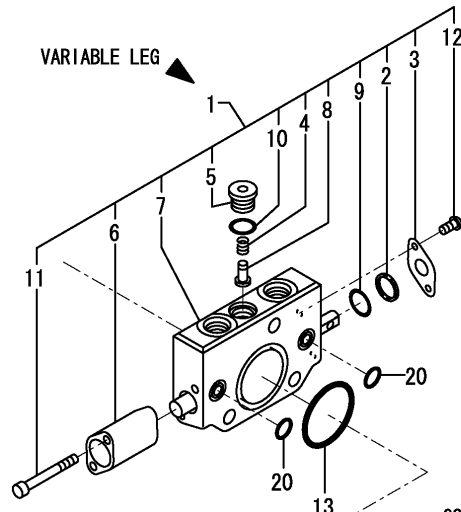
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 (B)=VIO15-2A(AS)  
 (C)=

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



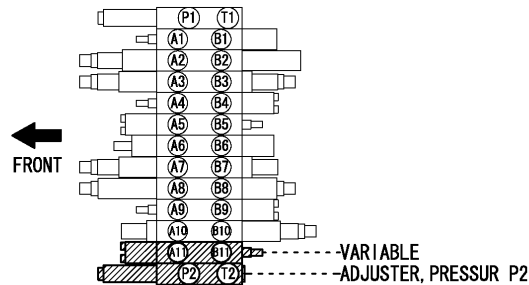
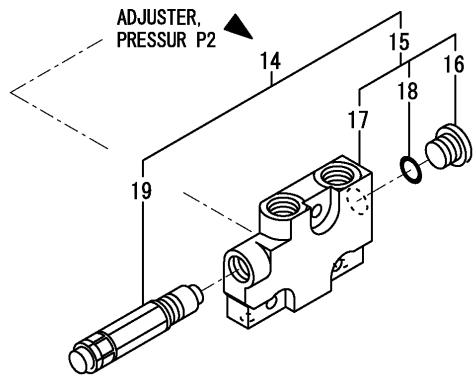
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74300	SECTION ASSY, TRAVEL	1	1						
2	3	172157-70630	BAC UP RING	1	1						
3	3	172157-70640	PLATE, O-RING	1	1						
4	3	172157-70690	SPRING, VALVE	1	1						
5	3	172157-70700	STAY, VALVE	1	1						
6	3	172157-70820	CAP, SPRING	1	1						
7	3	172448-74310	SPOOL ASSY, TRAVEL	1	1						
8	3	172137-74520	VALVE, CHECK	1	1						
9	3	24311-240100	O-RING, 1AP10A	1	1						
10	3	24315-000110	O-RING, 1BP11.0	1	1						
11	3	26450-050452	BOLT, M5X 45	2	2						
12	3	26557-050102	SCREW, M5X10	2	2						
13	2	172448-74320	SECTION ASSY	1	1						
14	3	172157-70690	SPRING, VALVE	1	1						
15	3	172157-70700	STAY, VALVE	1	1						
16	3	172449-74220	O-RING, AS 1A016	2	2						
17	3	172449-74270	CAP	1	1						
18	3	172449-74280	BOLT, M5 X 20	4	4						
19	3	172449-74290	CAP	1	1						
20	3	172448-74330	SPOOL ASSY, SWING	1	1						
21	3	172137-74520	VALVE, CHECK	1	1						
22	3	24315-000110	O-RING, 1BP11.0	1	1						
23	2	172448-74380	O-RING, AS1B 127	2	2						
24	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.56. CONTROL VALVE(7/7)



CONTROL VALVE ASSY  
172448-74100

Fig. No. 50 Ref. No. 1  
INC. Fig. 50 Ref. No. 2~11.  
Fig. 51 Ref. No. 1~31.  
Fig. 52 Fig. No. 1~28.  
Fig. 53 Ref. No. 1~30.  
Fig. 54 Fig. No. 1~27.  
Fig. 55 Fig. No. 1~24.  
Fig. 56 Fig. No. 1~20.

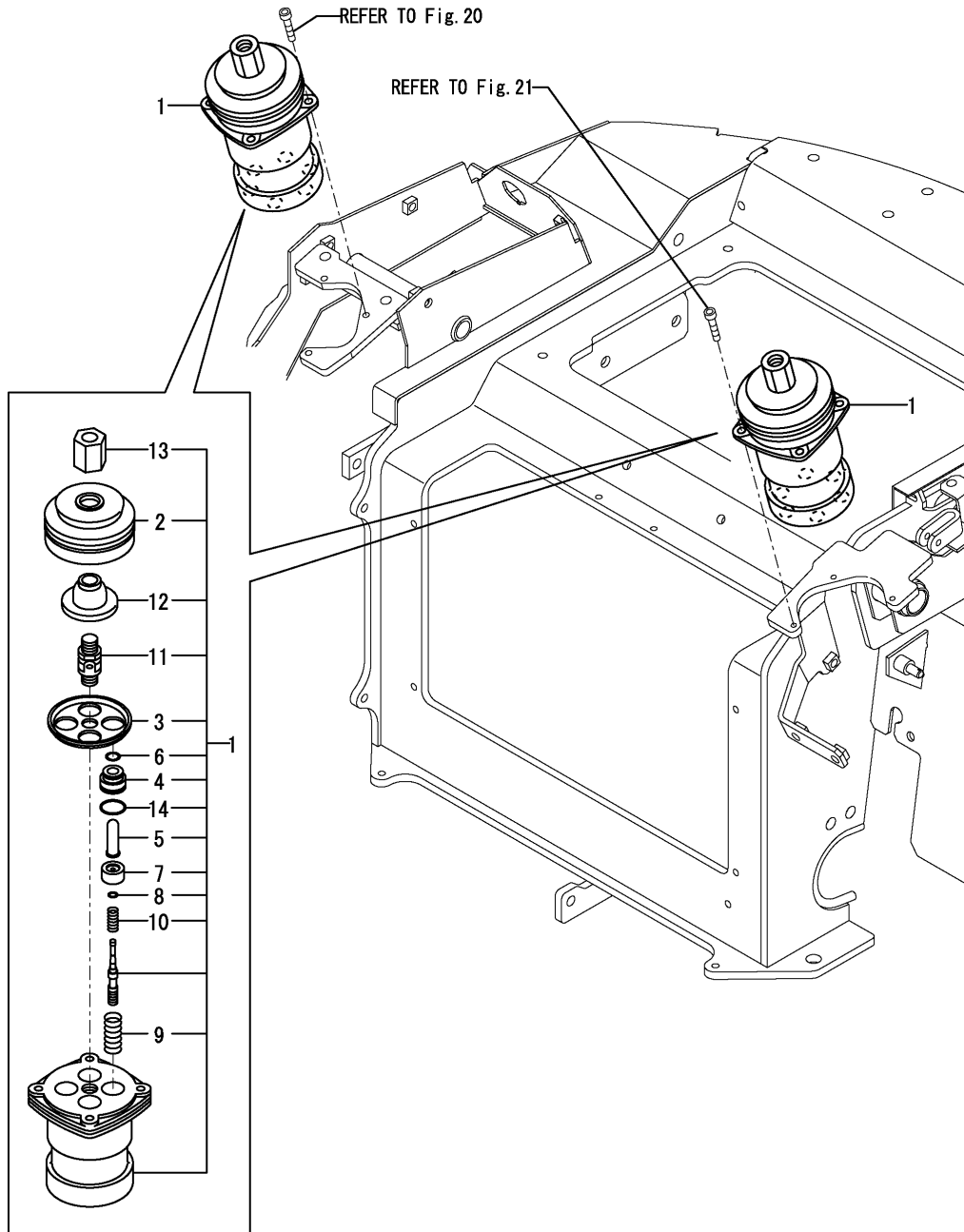


(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74340	SECTION ASSY, OPTION	1	1						
2	3	172157-70630	BAC UP RING	1	1						
3	3	172157-70640	PLATE, O-RING	1	1						
4	3	172157-70690	SPRING, VALVE	1	1						
5	3	172157-70700	STAY, VALVE	1	1						
6	3	172157-70820	CAP, SPRING	1	1						
7	3	172448-74350	SPOOL ASSY, OPTION	1	1						
8	3	172137-74520	VALVE, CHECK	1	1						
9	3	24311-240100	O-RING, 1AP10A	1	1						
10	3	24315-000110	O-RING, 1BP11.0	1	1						
11	3	26450-050452	BOLT, M5X 45	2	2						
12	3	26557-050102	SCREW, M5X10	2	2						
13	2	172448-74380	O-RING, AS1B 127	1	1						
14	2	172448-74460	ADJUSTER, PRESSURE P2	1	1						
15	3	172447-74200	SECTION ASSY	1	1						
16	4	172183-74350	PLUG PF1/4	1	1						
17	4	172447-74380	SECTION	1	1						
18	4	24315-000110	O-RING, 1BP11.0	1	1						
19	3	172448-74360	MAIN RELIFE VALVE	1	1						
20	2	24315-000100	O-RING, 1BP10.0	2	2						

Fig.57. REMOTE CONTROL VALVE

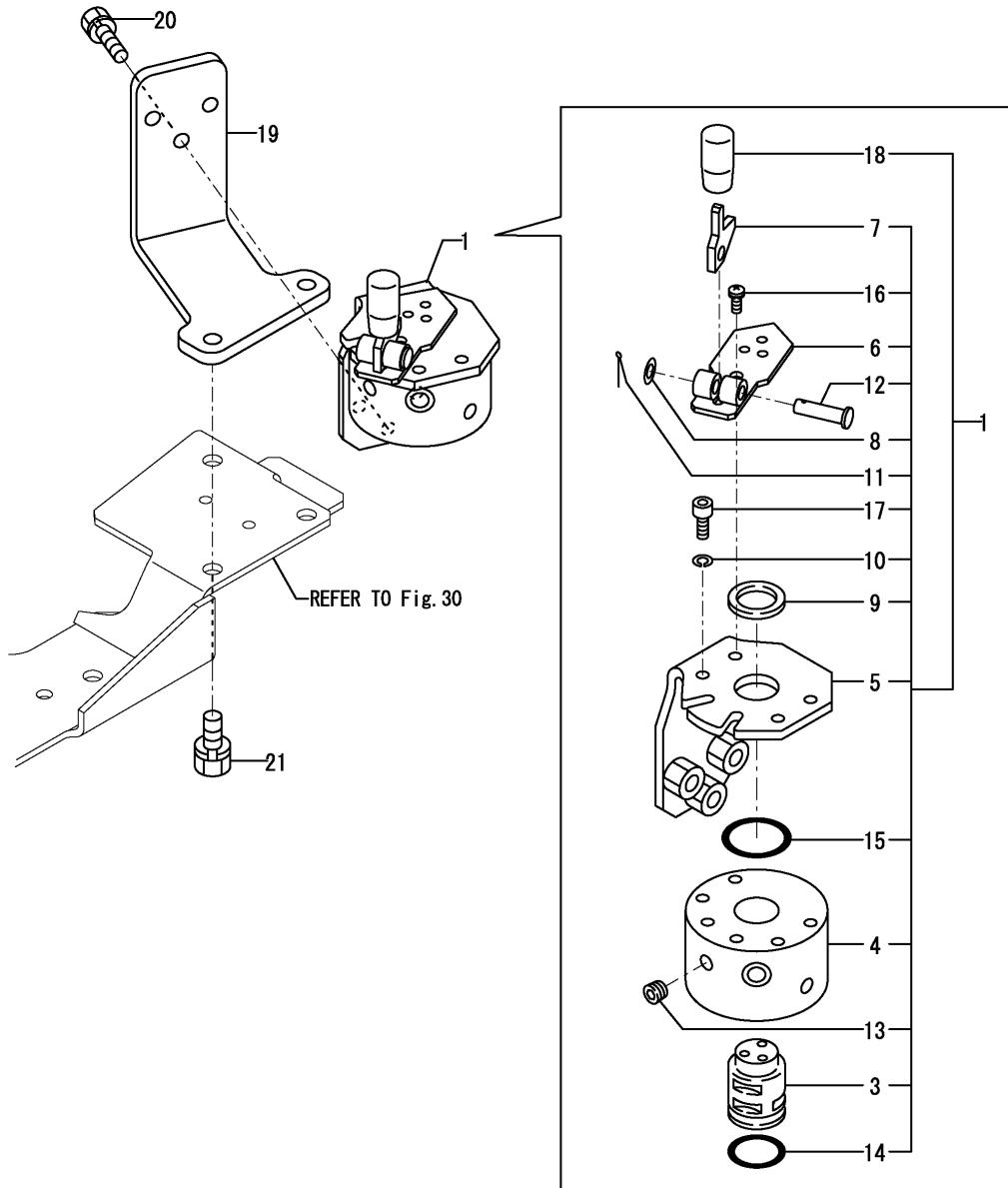


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-74701	VALVE ASSY, REM-CON.	2	2						
2	2	172455-74710	BELLOWS	2	2						
3	2	172448-74760	PLATE	2	2						
4	2	172448-74770	PLUG	8	8						
5	2	172448-74780	ROD Q,PUSH	8	8						
6	2	172448-74790	SEAL	8	8						
7	2	172448-74910	SEAT, SPRING	8	8						
8	2	172448-74920	WASHER	8	8						
9	2	172448-74930	SPRING	8	8						
10	2	172448-74940	SPRING	8	8						
11	2	172448-74950	JOINT	2	2						
12	2	172448-74960	PLATE, CIRCLE	2	2						
13	2	172448-74970	NUT, ADJUST	2	2						
14	2	24315-000200	O-RING, 1BP20.0	8	8						

Fig.58. 2-WAY VALVE



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

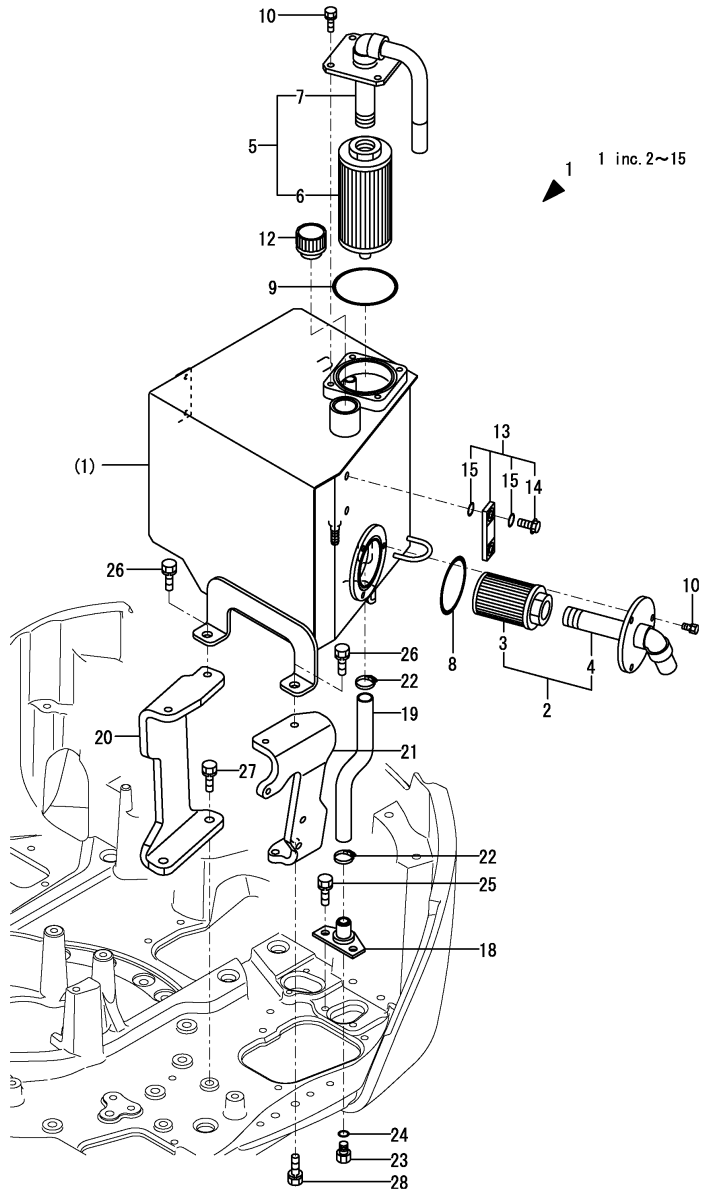
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-74690	VALVE ASSY,2WAY	1	1						
3	3	172437-74711	SHAFT	1	1						
4	3	172437-74720	BLOCK,VALVE	1	1						
5	3	172437-74732	STAY ASSY	1	1						
6	3	172A36-74750	LEVER	1	1						
7	3	172A36-74780	PLATE,LOCK	1	1						
8	3	22117-080000	WASHER, 8	1	1						
9	3	22137-240000	WASHER, 24	1	1						
10	3	22217-060000	WASHER, SPRING 6	4	4						
11	3	22417-200160	PIN, COTTER 2.0X16	1	1						
12	3	22487-080300	PIN, H 8X 30	1	1						
13	3	23871-010000	PLUG, R01	4	4						
14	3	24311-000250	O-RING, 1AP25.0	1	1						
15	3	24311-000320	O-RING, 1AP32.0	1	1						
16	3	26022-050122	SCREW, M5X12	3	3						
17	3	26450-060162	BOLT, M6X 16	4	4						
18	2	172157-58830	KNOB, 6.5X18X35	1	1						
19	1	172448-74900	BRACKET,2WAY	1	1						
20	1	26013-080252	BOLT, M8X 25	3	3						
21	1	26013-100202	BOLT, M10X 20	2	2						

Fig.59. HYD.OIL TANK

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

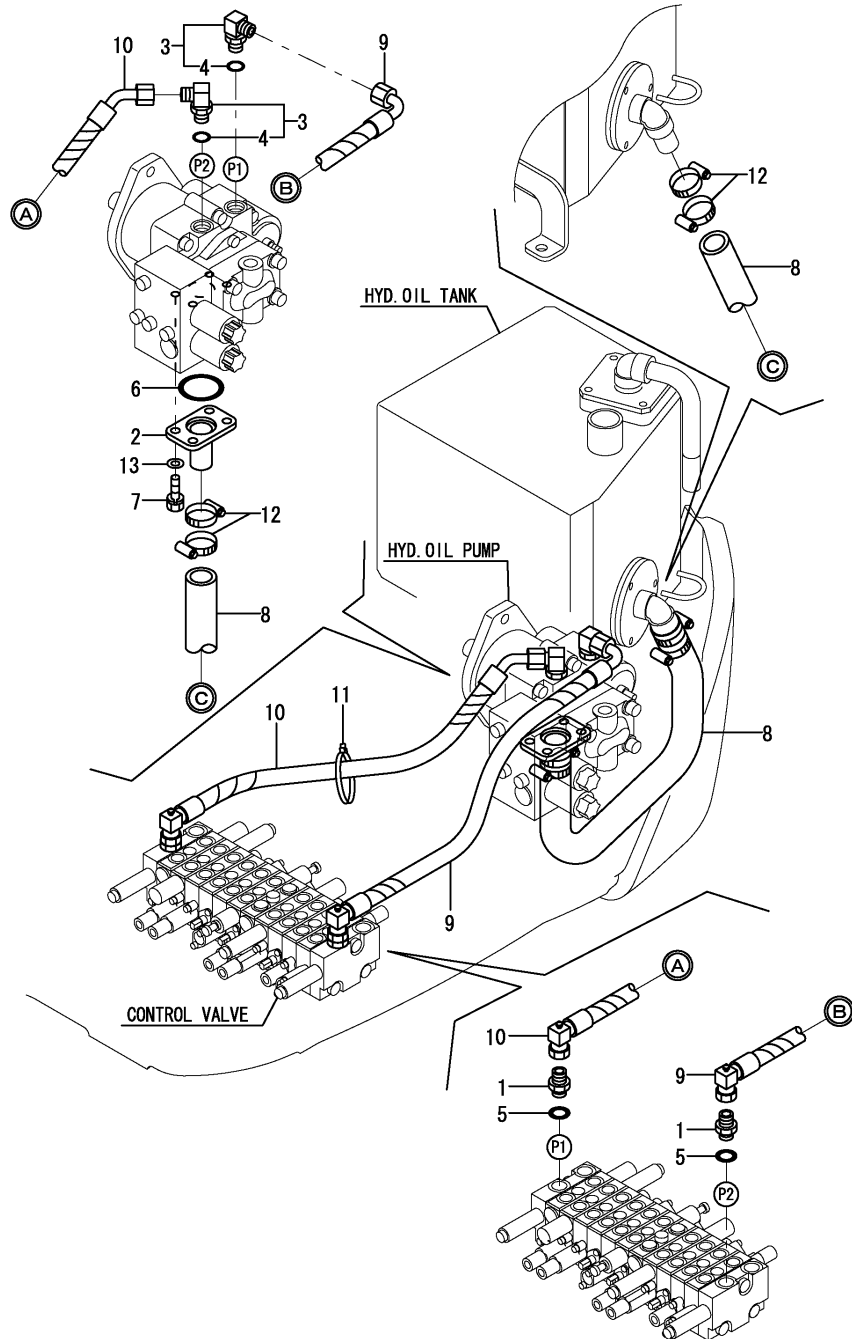
(D)=  
 (E)=  
 (F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A55-08350	TANK KIT, RESERVOIR	1							1
2	2	172448-73700	FILTER ASSY,SUCTION	1	1						
3	3	172448-73710	FILTER, SUCTION	1	1						
4	3	172448-73720	FLANGE,SUCTION	1	1						
5	2	172448-73770	FILTER ASSY,RETURN	1	1						
6	3	172448-73780	FILTER, RETURN	1	1						
7	3	172448-73790	FLANGE,RETURN	1	1						
8	2	24321-000750	O-RING, 1AG75.0	1	1						
9	2	24321-000850	O-RING, 1AG85.0	1	1						
10	2	26013-080162	BOLT, M8X 16	7	7						
12	2	172446-75250	CAP, RESERVER	1	1						
13	2	172447-75600	GAUGE ASSY	1	1						
14	3	172455-75290	BOLT M10	2	2						
15	3	172455-75300	O-RING	4	4						
18	1	172447-75290	BRACKET CMP	1	1						
19	1	172448-75300	HOSE G612YY032	1	1						
20	1	172448-75380	STAY ASSY, RESERVER	1	1						
21	1	172448-75411	STAY, RESERVOIR	1	1						
22	1	23001-025000	CLAMP, HOSE 25	2	2						
23	1	23491-140002	PLUG, 14	1	1						
24	1	24311-000160	O-RING, 1AP16.0	1	1						
25	1	26013-100202	BOLT, M10X 20	2	2						
26	1	26013-120252	BOLT, M12X 25	3	3						
27	1	26013-120302	BOLT, M12X 30	2	2						
28	1	26013-120452	BOLT, M12X 45	2	2						
29A	1	172437-03322	LABEL, HYD.OIL TANK	1	1						2

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOW-  
 ING LABEL AT THE SAME TIME.  
 REF.NO.29A.  
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.60. HYD.OIL PIPING(TANK - PUMP - CONTROL VALVE)



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

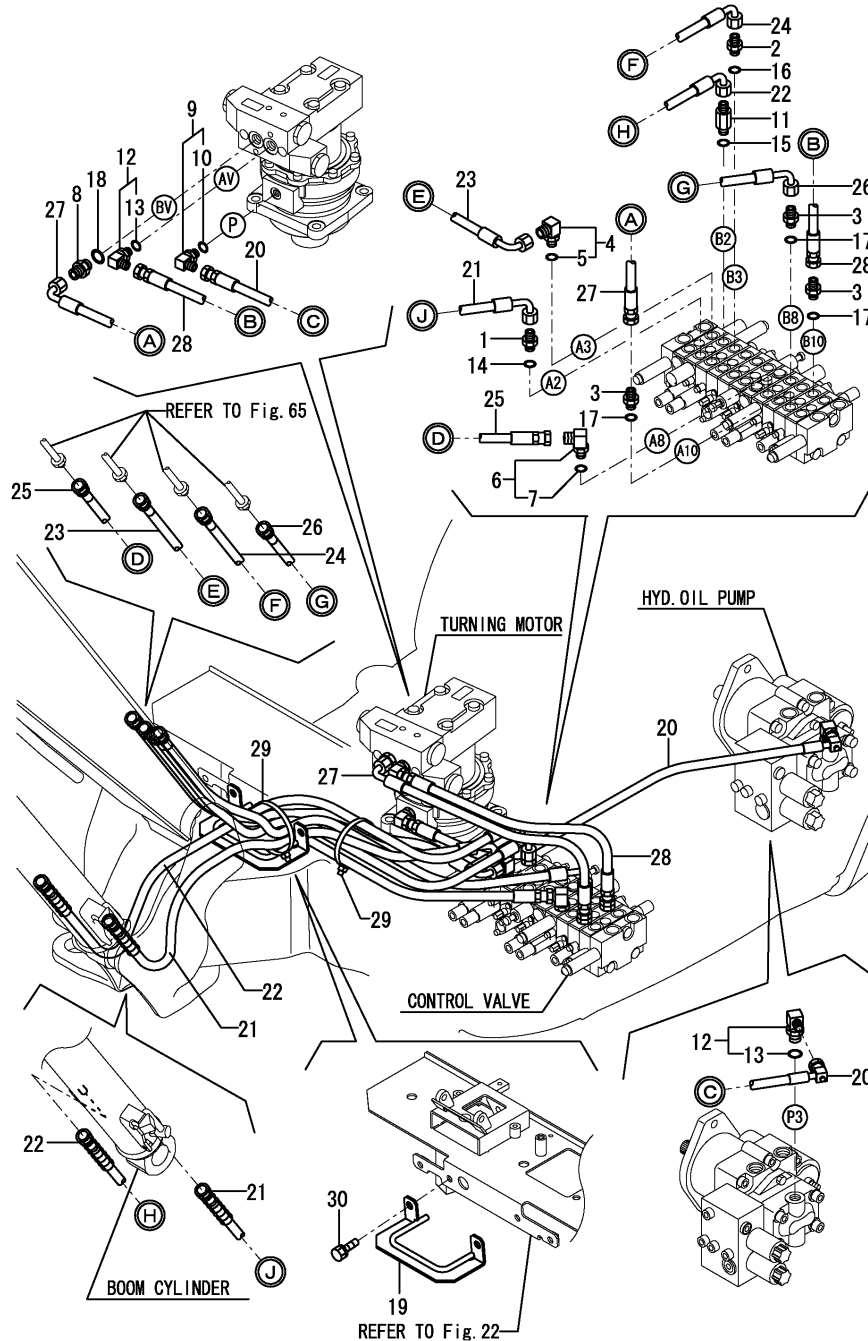
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2	2						
2	1	172124-76100	FLANGE,PUMP INLET	1	1						
3	1	172157-76300	ELBOW ASSY	2	2						
4	2	24315-000180	O-RING, 1BP18.0	2	2						
5	1	24315-000140	O-RING, 1BP14.0	2	2						
6	1	24321-000350	O-RING, 1AG35.0	1	1						
6-1	1	24311-000350	O-RING, 1AP35.0	1	1						N
(A=M/#XXXXX) (B=M/#XXXXX)											
7	1	26013-100252	BOLT, M10X 25	4	4						
8	1	172448-78110	HOSE NA,SUCTION	1	1						
9	1	172448-78130	HOSE H206EZ058S	1	1						
10	1	172448-78140	HOSE H206CZ056S	1	1						
11	1	172122-79930	CLAMP, HOSE	1	1						
12	1	23001-041000	CLAMP, HOSE 41	4	4						
13	1	22117-100000	WASHER, 10	4	4						

Fig.61. HYD.OIL PIPING(PUMP, CONTROL VALVE - TURNING MOTOR, BOOM)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

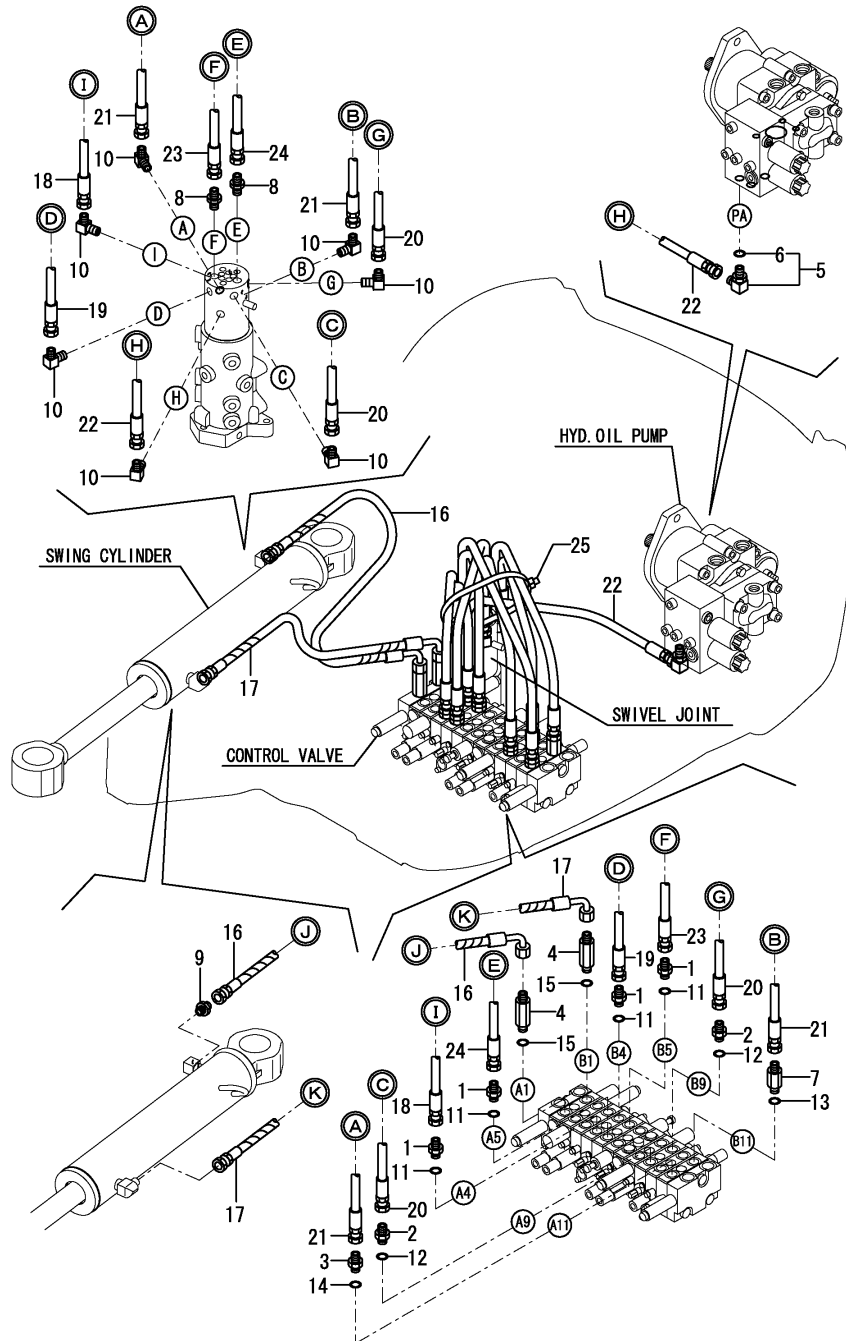


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	1	1						
2	1	172123-76121	ADAPTER	1	1						
3	1	172123-76121	ADAPTER	3	3						
4	1	172173-76121	CONNECTOR ASSY	1	1						
5	2	24315-000110	O-RING, 1BP11.0	1	1						
6	1	172173-76121	CONNECTOR ASSY	1	1						
7	2	24315-000110	O-RING, 1BP11.0	1	1						
8	1	172157-76150	CONNECTOR	1	1						
9	1	172141-76180	CONNECTOR ASSY	1	1						
10	2	24315-000110	O-RING, 1BP11.0	1	1						
11	1	172183-76200	CONNECTOR	1	1						
12	1	172141-76920	CONNECTOR ASSY	2	2						
13	2	24315-000140	O-RING, 1BP14.0	2	2						
14	1	24315-000110	O-RING, 1BP11.0	1	1						
15	1	24315-000110	O-RING, 1BP11.0	1	1						
16	1	24315-000110	O-RING, 1BP11.0	1	1						
17	1	24315-000110	O-RING, 1BP11.0	3	3						
18	1	24315-000140	O-RING, 1BP14.0	1	1						
19	1	172448-77910-1	CLAMP, HOSE	1	1						
19-1	1	172448-77910-2	CLAMP, HOSE	1	1						S
		(A=M/#28166) (B=M/#28166)									
20	1	172448-78150	HOSE F203BZ073S	1	1						
21	1	172448-78180	HOSE H204BC096W	1	1						
22	1	172448-78190	HOSE H204BC104W	1	1						
23	1	172448-78200	HOSE H206BC088K	1	1						
24	1	172448-78210	HOSE H204BC100K	1	1						
25	1	172448-78260	HOSE H206BB105K	1	1						
26	1	172448-78270	HOSE H204BC107K	1	1						
27	1	172448-78291	HOSE F203BC052	1	1						
28	1	172448-78980	HOSE F203BB049	1	1						
29	1	172122-79930	CLAMP, HOSE	2	2						
30	1	26013-100202	BOLT, M10X 20	2	2						

Fig.62. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT, SWING CYLINDER)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



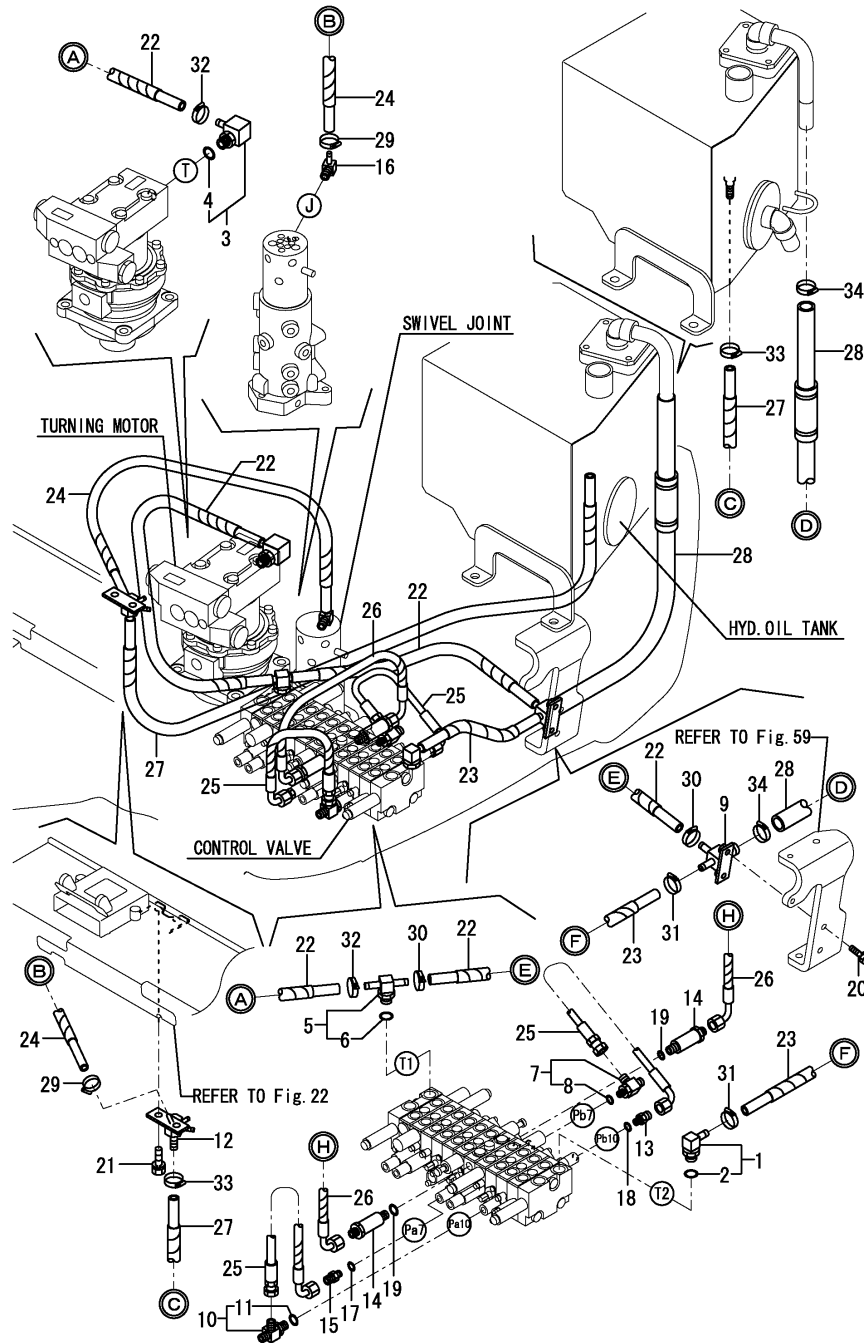
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	4	4						
2	1	172123-76121	ADAPTER	2	2						
3	1	172123-76121	ADAPTER	1	1						
4	1	172448-76130	CONNECTOR, PF1/4	2	2						
5	1	172141-76180	CONNECTOR ASSY	1	1						
6	2	24315-000110	O-RING, 1BP11.0	1	1						
7	1	172183-76200	CONNECTOR	1	1						
8	1	23391-020000	JOINT, RGI-1/4	2	2						
9	1	23391-020000	JOINT, RGI-1/4	1	1						
10	1	23393-020000	JOINT, 90RGI-1/4	7	7						
11	1	24315-000110	O-RING, 1BP11.0	4	4						
12	1	24315-000110	O-RING, 1BP11.0	2	2						
13	1	24315-000110	O-RING, 1BP11.0	1	1						
14	1	24315-000110	O-RING, 1BP11.0	1	1						
15	1	24315-000110	O-RING, 1BP11.0	2	2						
16	1	172448-78160	HOSE F203BC083S	1	1						
17	1	172448-78170	HOSE F203BC052S	1	1						
18	1	172448-78220	HOSE F204BBO52	1	1						
19	1	172448-78230	HOSE F204BB045	1	1						
20	1	172448-78280	HOSE F204BB054	2	2						
21	1	172448-78300	HOSE F203BB066	2	2						
22	1	172455-78610	HOSE F403BB054	1	1						
23	1	172448-78670	HOSE F204BB048	1	1						
24	1	172448-78830	HOSE F204BB050	1	1						
25	1	172122-79930	CLAMP, HOSE	1	1						



Fig.63. HYD.OIL PIPING(RETURN)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



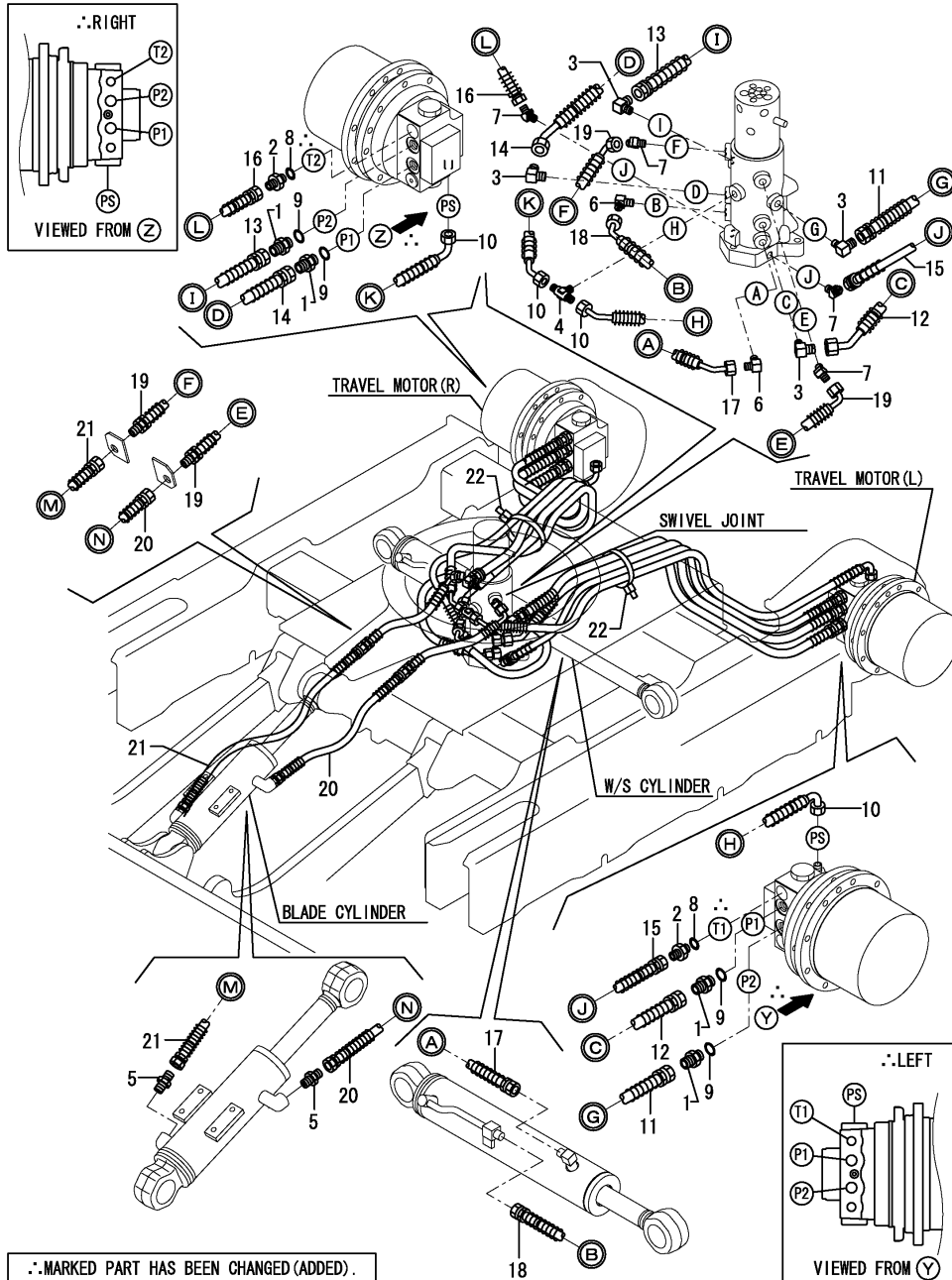
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-76100	ELBOW	1	1						
2	2	24315-000140	O-RING, 1BP14.0	1	1						
3	1	172448-76100	ELBOW	1	1						
4	2	24315-000140	O-RING, 1BP14.0	1	1						
5	1	172448-76110	ELBOW	1	1						
6	2	24315-000140	O-RING, 1BP14.0	1	1						
7	1	172448-76120	ELBOW	1	1						
8	2	24315-000080	O-RING, 1BP8.0	1	1						
9	1	172448-76140	DRAIN BLOCK	1	1						
10	1	172448-76150	ELBOW	1	1						
11	2	24315-000080	O-RING, 1BP8.0	1	1						
12	1	172187-76160	JOINT	1	1						
13	1	172448-76160	CONNECTOR, 0.6	1	1						
14	1	172448-76170	JOINT, PF1/4-3/8	2	2						
15	1	172447-76210	JOINT, G1/8-G1/4	1	1						
16	1	172186-76390	NIPPLE, ELBOW	1	1						
17	1	24315-000080	O-RING, 1BP8.0	1	1						
18	1	24315-000080	O-RING, 1BP8.0	1	1						
19	1	24315-000140	O-RING, 1BP14.0	2	2						
20	1	26013-080252	BOLT, M8X 25	2	2						
21	1	26013-100202	BOLT, M10X 20	2	2						
22	1	172448-78310	HOSE G806YY050S	2	2						
23	1	172448-78320	HOSE G806YY025S	1	1						
24	1	172448-78460	HOSE G804YY054S	1	1						
25	1	172458-78620	HOSE F403BC030	2	2						
26	1	172448-78700	HOSE G804CC042S	1	1						
27	1	172448-78740	HOSE G806YY110S	1	1						
28	1	172448-78750	HOSE G812YY080S	1	1						
29	1	23000-013000	CLAMP, 13	2	2						
30	1	23001-016000	CLAMP, HOSE 16	2	2						
31	1	23001-016000	CLAMP, HOSE 16	2	2						
32	1	23001-016000	CLAMP, HOSE 16	2	2						
33	1	23001-016000	CLAMP, HOSE 16	2	2						
34	1	23001-035000	CLAMP, HOSE 35	2	2						

Fig.64. HYD.OIL PIPING(TRACK FRAME)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

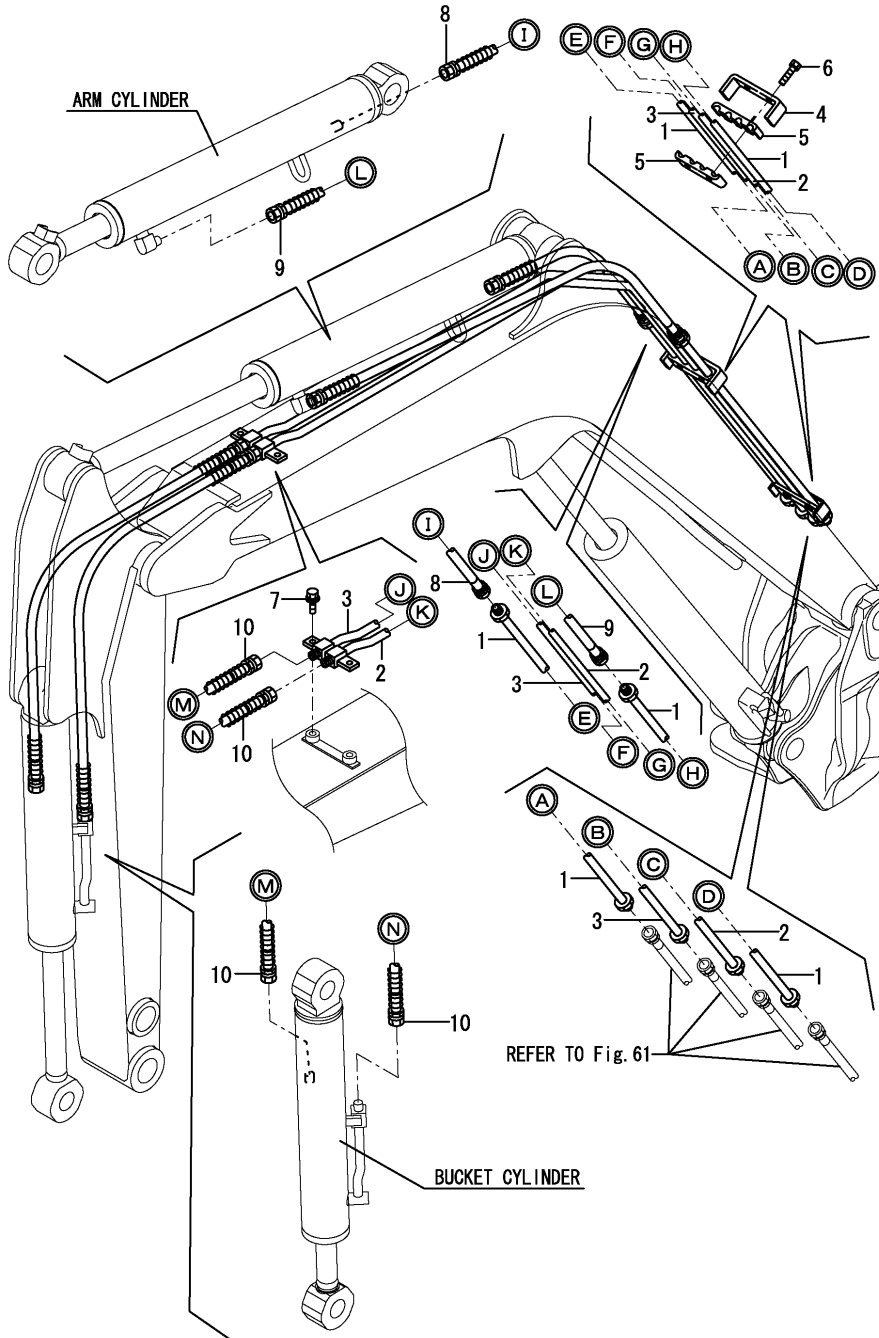
P/C NEWS No: Y00S4601-3  
 PUBLISHED: 2008/05



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	4	4						
2	1	172123-76121	ADAPTER	2	2						
3	1	172147-76180	ELBOW	4	4						
4	1	172162-76320	CONNECTOR, 3X1/4	1	1						
5	1	23391-020000	JOINT, RGI-1/4	2	2						
6	1	23393-020000	JOINT, 90RGI-1/4	2	2						
7	1	23394-020000	JOINT, 45RGI-1/4	4	4						
8	1	24315-000110	O-RING, 1BP11.0	2	2						
9	1	24315-000140	O-RING, 1BP14.0	4	4						
10	1	172448-78330	HOSE F203CE102W	2	2						
11	1	172448-78340	HOSE H205BB078W	1	1						
12	1	172448-78350	HOSE H205BE078W	1	1						
13	1	172448-78360	HOSE H205BB073W	1	1						
14	1	172448-78370	HOSE H205BE081W	1	1						
15	1	172448-78380	HOSE G804BB090W	1	1						
16	1	172448-78390	HOSE G804BB087W	1	1						
17	1	172448-78400	HOSE F203BE045S	1	1						
18	1	172448-78410	HOSE F203BE055W	1	1						
19	1	172448-78710	HOSE F204CX025W	2	2						
20	1	172448-78720	HOSE F204BB039W	1	1						
21	1	172448-78730	HOSE F204BB055W	1	1						
22	1	172122-79930	CLAMP, HOSE	2	2						

MARKED PART HAS BEEN CHANGED (ADDED).

Fig.65. HYD.OIL PIPING(BOOM)

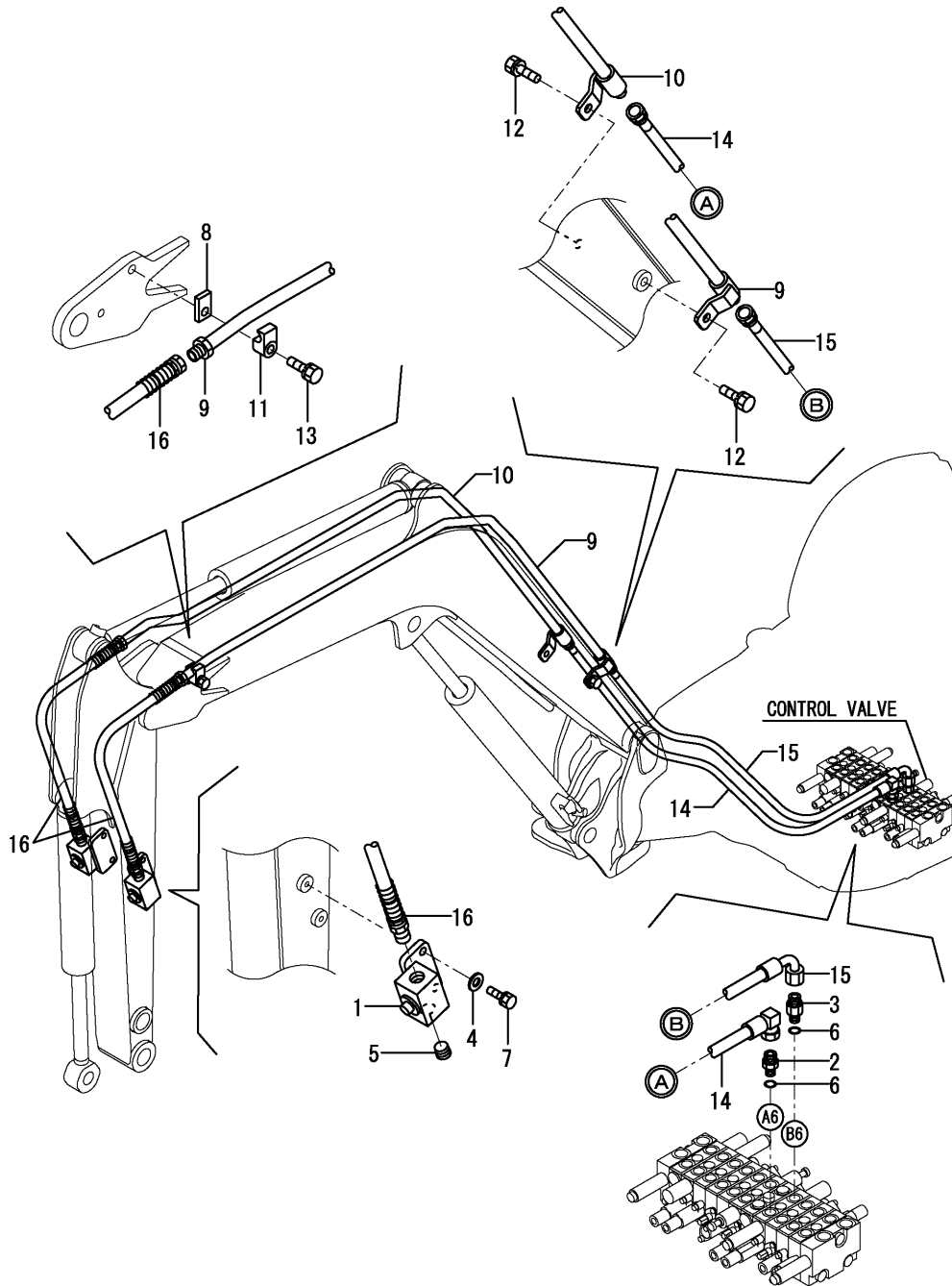


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-76400-1	TUBE, ARM	2	2						
2	1	172448-76450-1	TUBE, BUCKET	1	1						
3	1	172448-76470-1	TUBE, BUCKET	1	1						
4	1	172448-76680-1	TUBE, CLAMP	2	2						
5	1	172448-76690	TUBE, CLAMP	4	4						
6	1	26013-080352	BOLT, M8X 35	4	4						
7	1	26014-080162	BOLT, M8X 16	2	2						
8	1	172448-78420	HOSE H206BB042K	1	1						
9	1	172448-78430	HOSE H204BB085K	1	1						
10	1	172448-78440	HOSE H204BB076W	2	2						

Fig.66. HYD.OIL PIPING(P.T.O. : ARM END)



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820-5	STOP VALVE 08	2	2						
1-1	1	172183-74821	VALVE, STOP (87)	2	2						R
				(A=M/#28166)		(B=M/#28166)					
2	1	172638-76190	CONNECTOR,PF1/4PF3/8	1	1						
3	1	172157-76220	CONNECTOR, 1/4X3/8	1	1						
4	1	22117-100000	WASHER, 10	4	4						
5	1	23871-040000	PLUG, R04	2	2						
6	1	24315-000110	O-RING, 1BP11.0	2	2						
7	1	26013-100252	BOLT, M10X 25	4	4						
8	1	172183-76250-1	PLATE (YELLOW:87)	2	2						
9	1	172448-76600-1	TUBE, PTO	1	1						
10	1	172448-76620-1	TUBE, PTO	1	1						
11	1	172142-76950	CLAMP	2	2						
12	1	26013-120202	BOLT, M12X 20	2	2						
13	1	26013-120502	BOLT, M12X 50	2	2						
14	1	172448-78240	HOSE H206BV107K	1	1						
15	1	172448-78250	HOSE H206BC113K	1	1						
16	1	172448-78450	HOSE H208AB059W	2	2						

Fig.67. CONTROL PIPING(PUMP - CONTROL VALVE - RETURN)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-76101	CONNECTOR ASSY	2	2						
2	2	24315-000110	O-RING, 1BP11.0	2	2						
3	1	172123-76121	ADAPTER	2	2						
4	1	172455-76220	CONNECTOR	2	2						
5	1	24315-000110	O-RING, 1BP11.0	4	4						
6	1	172448-78470	HOSE F403BB130S	1	1						
7	1	172448-78520	HOSE F403BB144S	1	1						
8	1	172455-78820	HOSE G804BY105S	2	2						
9	1	172122-79930	CLAMP, HOSE	1	1						
10	1	23000-013000	CLAMP, 13	1	1						
11	1	23000-013000	CLAMP, 13	1	1						

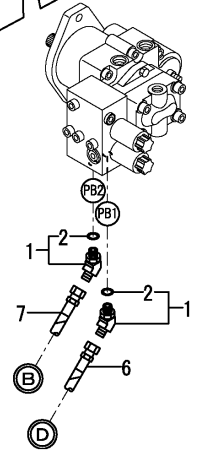
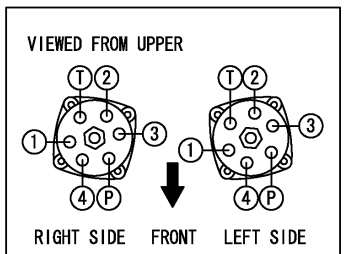
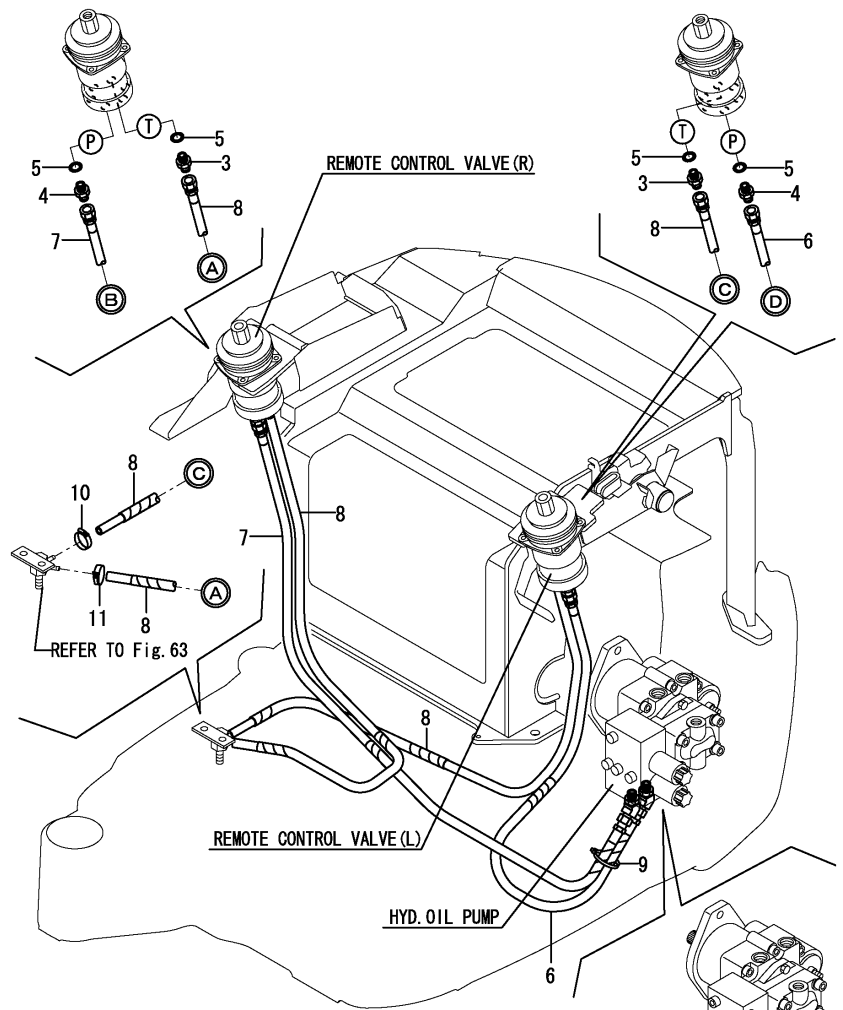
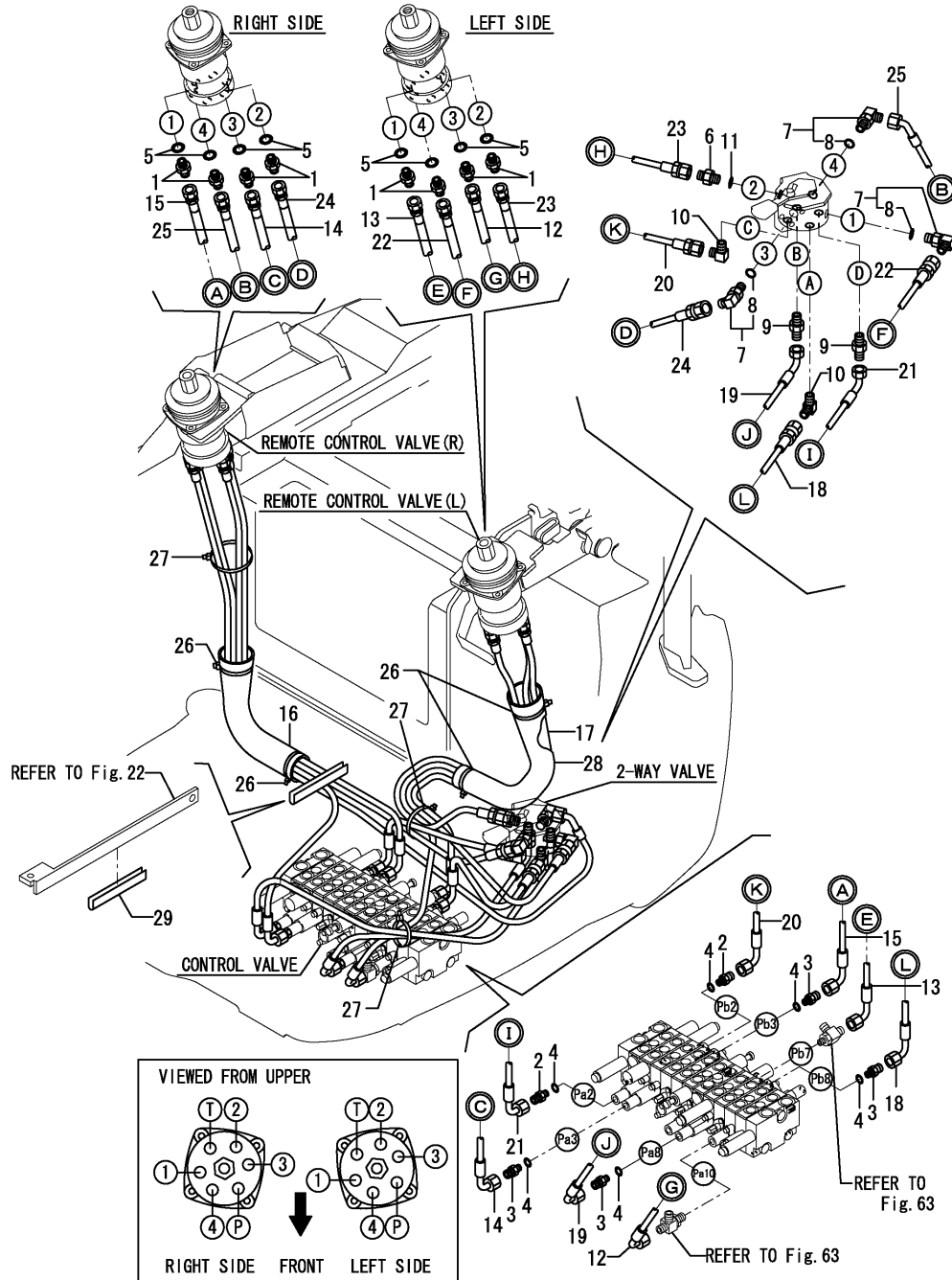


Fig.68. CONTROL PIPING(REMOTE CONTROL V. - 2-WAY V.- CONTROL VALVE)

(A)=VIO15-2A(US)  
(B)=VIO15-2A(AS)  
(C)=

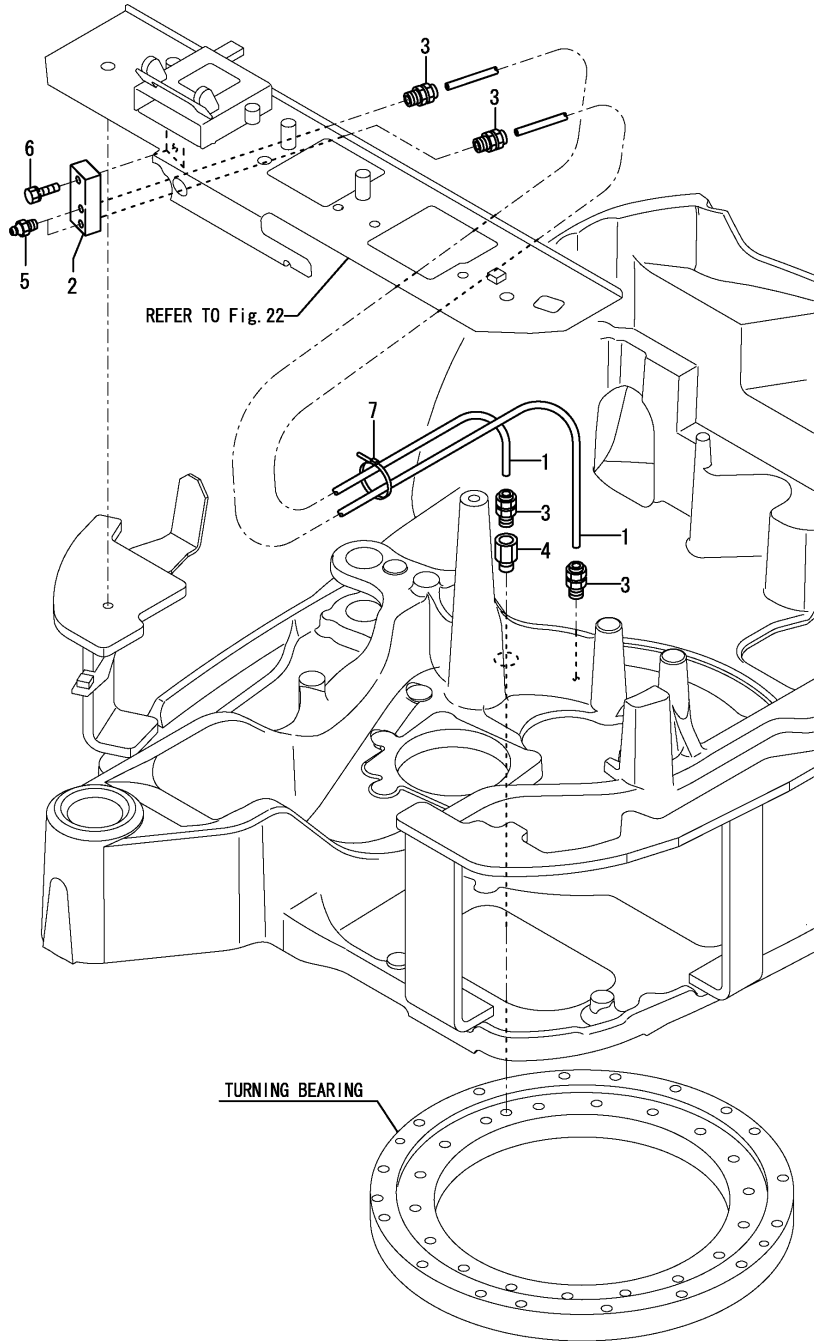
(D)=  
(E)=  
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	8	8						
2	1	172448-76160	CONNECTOR, 0.6	2	2						
3	1	172447-76210	JOINT, G1/8-G1/4	4	4						
4	1	24315-000080	O-RING, 1BP8.0	6	6						
5	1	24315-000110	O-RING, 1BP11.0	8	8						
6	1	172123-76121	ADAPTER	1	1						
7	1	172141-76180	CONNECTOR ASSY	3	3						
8	2	24315-000110	O-RING, 1BP11.0	3	3						
9	1	23391-020000	JOINT, RGI-1/4	2	2						
10	1	23393-020000	JOINT, 90RGI-1/4	2	2						
11	1	24315-000110	O-RING, 1BP11.0	1	1						
12	1	172448-78600	HOSE F403BC123	1	1						
13	1	172478-78630	HOSE F403BC089	1	1						
14	1	172448-78650	HOSE F403BC110	1	1						
15	1	172448-78660	HOSE F403BC110	1	1						
16	1	172142-78810	COVER, HOSE	1	1						
17	1	172448-78990	SPONGE, HOSE 400	1	1						
18	1	172448-79210	HOSE F403BC039	1	1						
19	1	172448-79220	HOSE F403CC047S	1	1						
20	1	172448-79230	HOSE F403BC029	1	1						
21	1	172448-79240	HOSE F403CC066S	1	1						
22	1	172448-79250	HOSE F403BB110	1	1						
23	1	172448-79260	HOSE F403BB079	1	1						
24	1	172448-79270	HOSE F403BB108	1	1						
25	1	172448-79280	HOSE F403BE135S	1	1						
26	1	172122-79930	CLAMP, HOSE	4	4						
27	1	172122-79930	CLAMP, HOSE	3	3						
28	1	172448-79950	COVER, HOSE	1	1						
29	1	172A55-78500	RUBBER PLATE	1	1						W

(A)=M/#27545) (B)=M/#27545)

Fig.69. GREASING

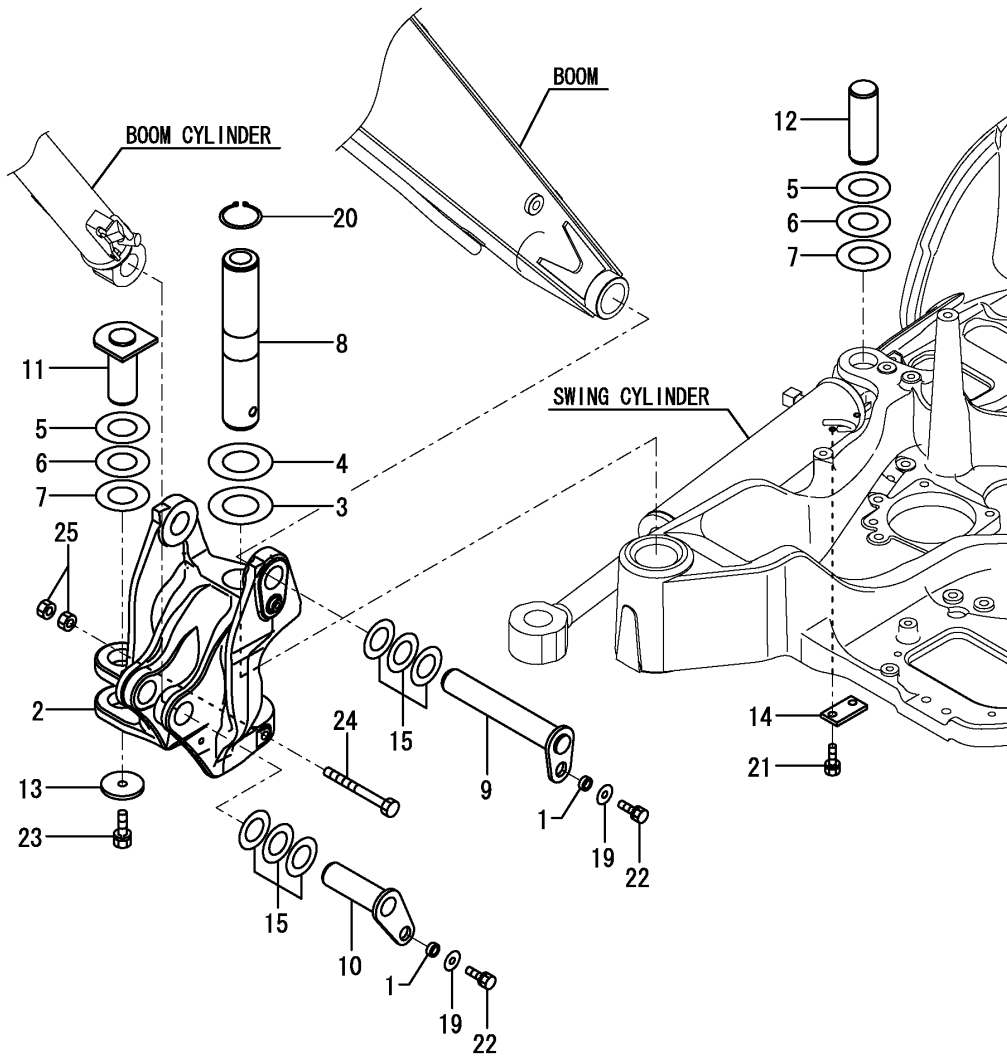


(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-77100	HOSE P602YY068	2	2						
2	1	172448-77110	SEAT, SCREW PT1/8	1	1						
3	1	172141-77800	JOINT, GREASE	4	4						
4	1	172312-77820	FITTING, GREASE	1	1						
5	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
6	1	26013-080352	BOLT, M8X 35	1	1						
7	1	933168-55770	BAND 146	1	1						

Fig.70. BOOM BRACKET



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

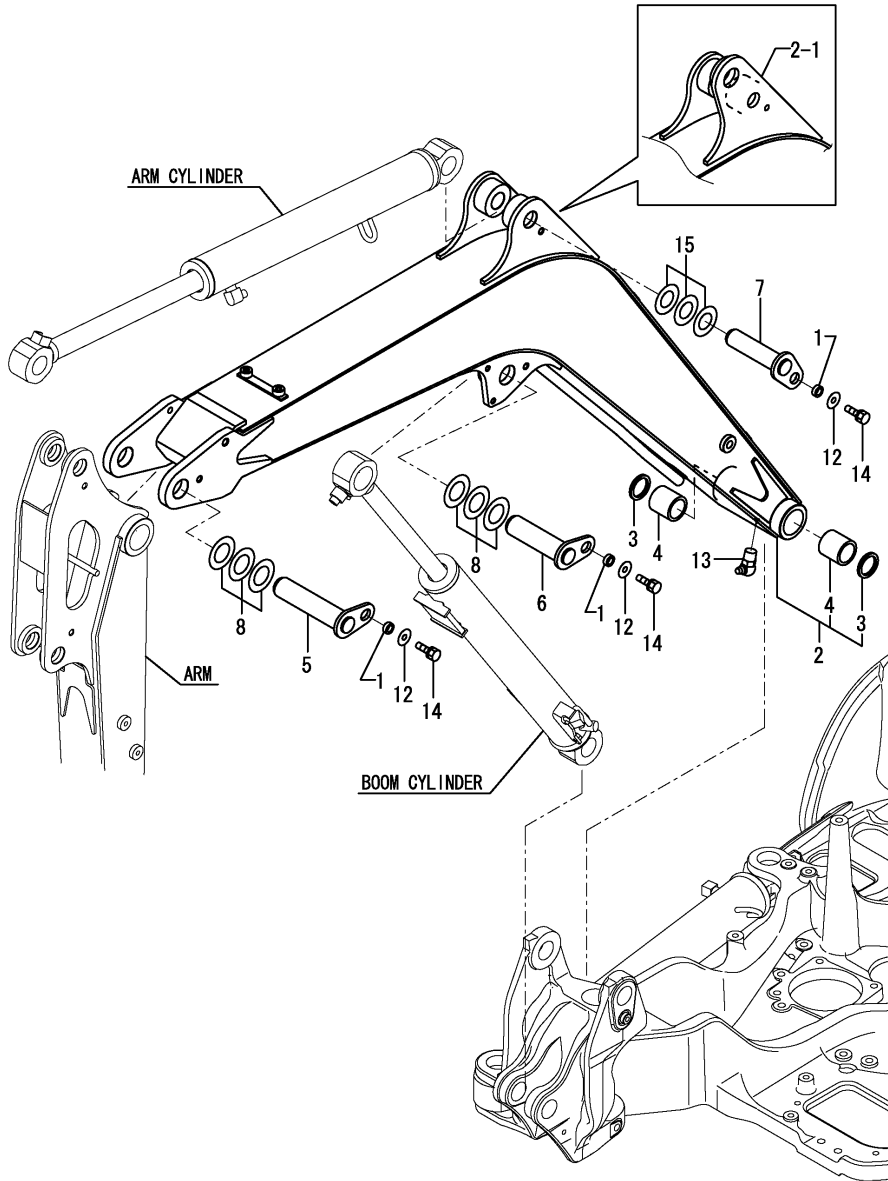
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	2	2						
2	1	172448-82301-1	BRACKET,BOOM (87)	1	1						
3	1	172165-82520	SHIM	1	1						
4	1	172165-82530	SHIM	1	1						
5	1	172165-82580	SHIM	2	2						
6	1	172165-82590	SHIM	2	2						
7	1	172165-82600	SHIM	2	2						
8	1	172A55-82650	PIN, 50X282	1	1						
9	1	172A55-82670	PIN ASSY,35X217	1	1						
10	1	172A55-82730	PIN ASSY, 35X110	1	1						
11	1	172A55-82880	PIN ASSY, 40X96	1	1						
12	1	172A55-82900	PIN, 40X120	1	1						
13	1	172146-82910	SPACER	1	1						
14	1	172117-83970-6	PLATE(C),LOCK (82)	1	1						
14-1	1	172117-83970-7	PLATE(C),LOCK(GRAY49	1	1						S
		(A=M/#28166) (B=M/#28166)									
15	1	172141-84601	SHIM	2	2						
19	1	22157-100000	WASHER, 10	2	2						
20	1	22242-000500	RING, 50	1	1						
21	1	26013-100202	BOLT, M10X 20	2	2						
22	1	26013-100252	BOLT, M10X 25	2	2						
23	1	26013-120252	BOLT, M12X 25	1	1						
24	1	26116-121302	BOLT, M12X130 PLATED	1	1						
25	1	26756-120002	NUT, LOCK M12	2	2						



Fig.71. BOOM

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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

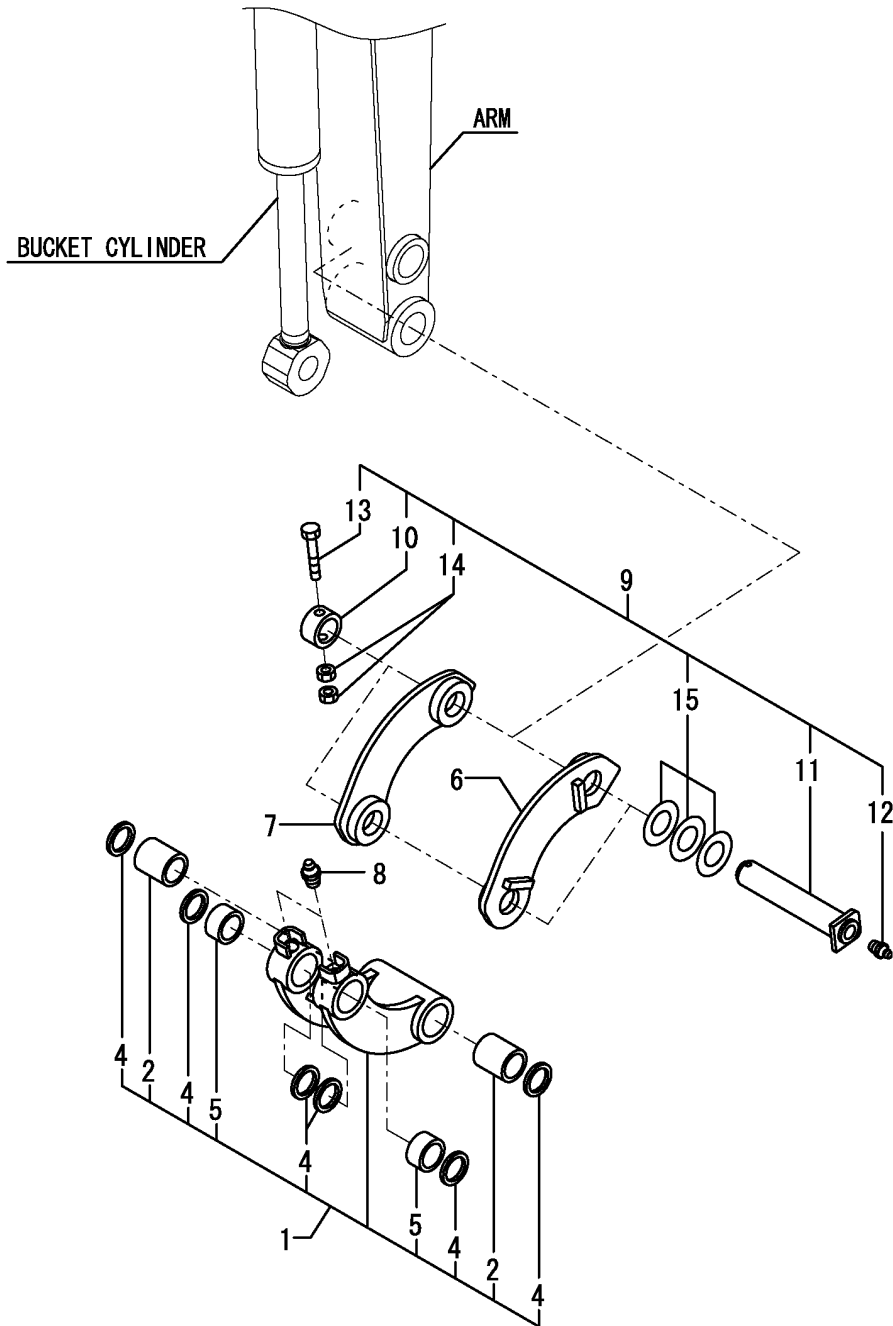


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	3	3						
2	1	172448-81100-1	BOOM ASSY(YELLOW:87)	1	1						1
2-1	1	172448-81090	BOOM ASSY(YELLOW:87)	1	1						S 1
(A=M/#27862) (B=M/#27862)											
3	2	172448-81610	SEAL, DUST 35X45X4	2	2						
4	2	172141-82270	BUSH 35 45	2	2						
5	1	172A55-82700	PIN ASSY,35X155	1	1						
6	1	172A55-82760	PIN ASSY, 35X127	1	1						
7	1	172A55-82790	PIN ASSY, 30X121	1	1						
8	1	172141-84601	SHIM	2	2						
12	1	22157-100000	WASHER, 10	3	3						
13	1	24761-050000	NIPPLE, GREASE C	1	1						
14	1	26013-100252	BOLT, M10X 25	3	3						
15	1	933160-06711	SHIM ASSY	1	1						
19A	1	172437-03461	LABEL, BOOM US	2	2						2

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOW-  
 ING LABEL AT THE SAME TIME.  
 REF.NO.19A.  
 (2)LABELS ARE NOT ILLUSTRATED.



Fig.73. BUCKET ARM & LINK



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

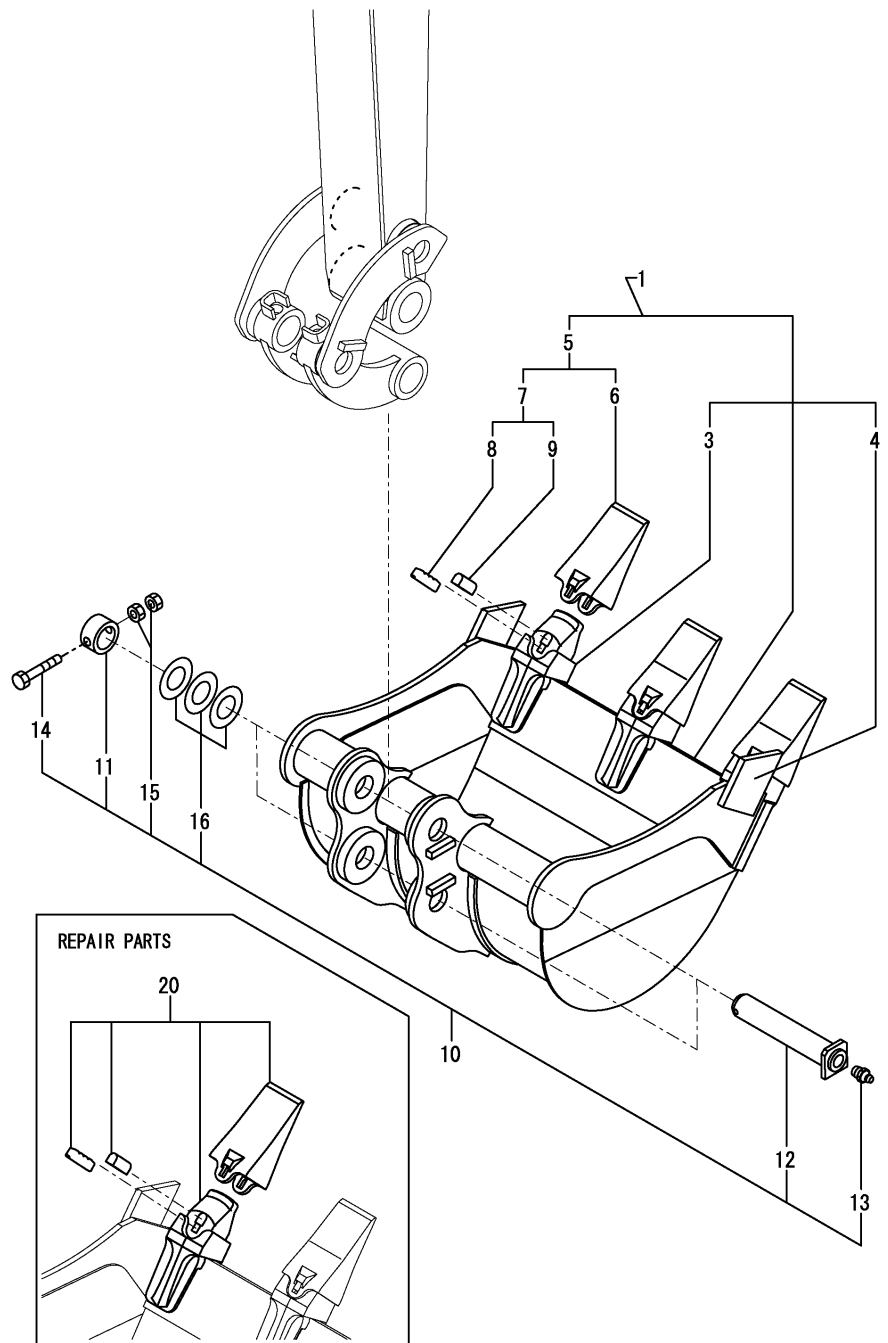
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-81400-2	LINK, BUCKET (87)	1	1						
2	2	172137-81300	BUSH 30X45, PIN	2	2						
4	2	172448-81600	SEAL, DUST 30X40X4	6	6						
5	2	172137-84451	BUSH	2	2						
6	1	172448-84500-1	ARM, BUCKET	1	1						
7	1	172448-84510-1	ARM, BUCKET	1	1						
8	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
9	1	172A55-99450	PIN KIT, BUCKET	2	2						
10	2	172149-83220	COLLAR, 30X42.7X22	2	2						
11	2	172A55-86250	PIN ASSY, 30X159	2	2						
12	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						
13	2	26116-100602	BOLT, M10X 60 PLATED	2	2						
14	2	26716-100002	NUT, M10	4	4						
15	2	933160-06711	SHIM ASSY	2	2						

Fig.74. BUCKET

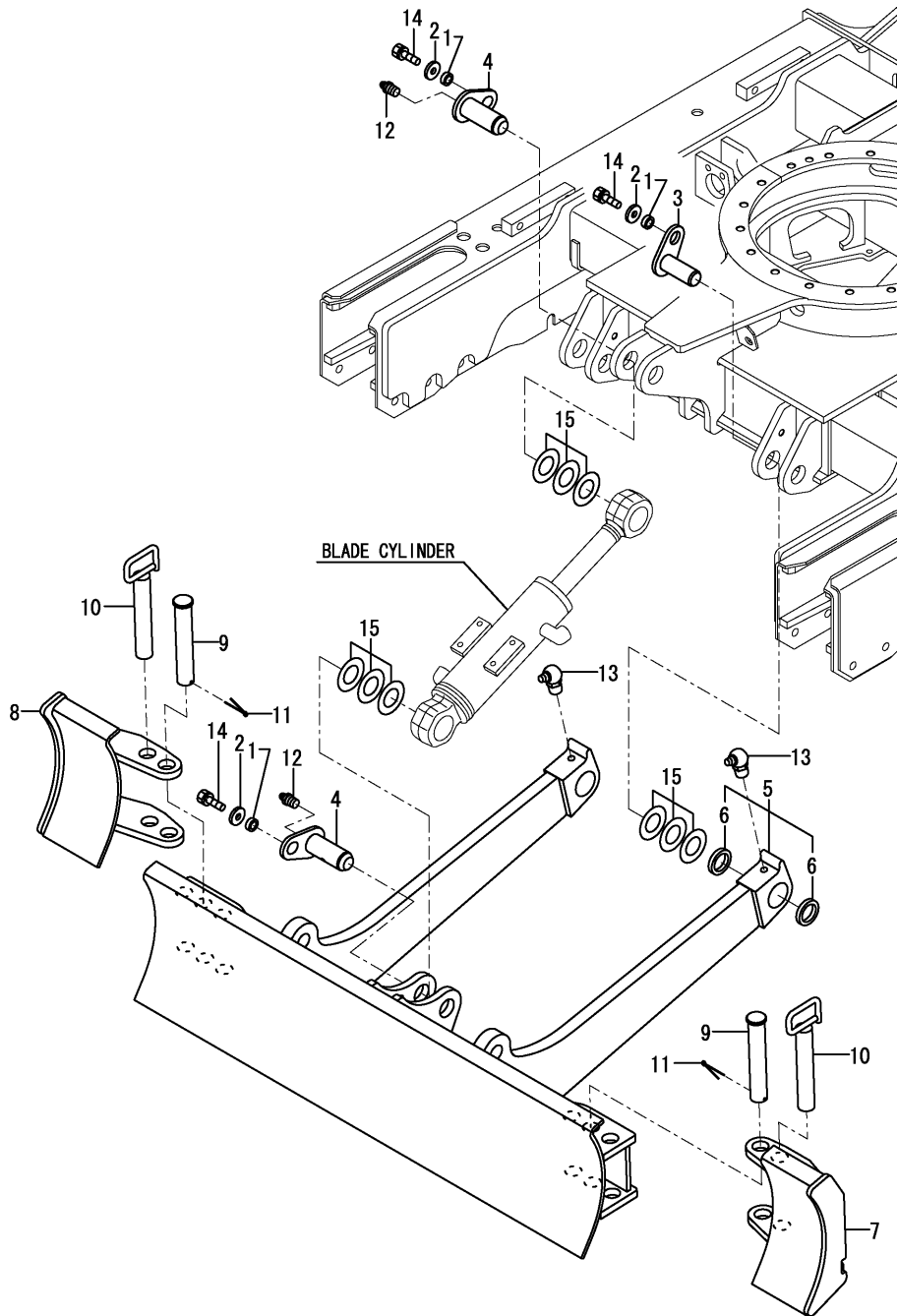
(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-82400-1	BUCKET ASSY, 450S	1							
1-1	1	172448-82400-2	BUCKET ASSY, 450S	1							S
(A=M/#28166)											
3	3	172448-82530-1	ADAPTER	3							
3-1	3	172448-82530-2	ADAPTER	3							S
(A=M/#28166)											
4	3	172137-86240	CUTTER, SIDE	2							
5	2	172448-82950	TOOTH KIT, POINT	3							
5-1	2	172448-82950-3	TOOTH KIT, POINT	3							S
(A=M/#28166)											
6	3	172448-82570-1	TOOTH, POINT	3							
6-1	3	172448-82570-3	TOOTH, POINT	3							S
(A=M/#28166)											
7	3	172448-82960	PIN ASSY, LOCK	3							
8	4	172448-82580	PIN,LOCK	3							
9	4	172448-82590	RUBBER,PIN	3							
10	1	172A55-99450	PIN KIT,BUCKET	3	3						
11	2	172149-83220	COLLAR, 30X42.7X22	2	2						
12	2	172A55-86250	PIN ASSY, 30X159	2	2						
13	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						
14	2	26116-100602	BOLT, M10X 60 PLATED	2	2						
15	2	26716-100002	NUT, M10	4	4						
16	2	933160-06711	SHIM ASSY	2	2						
20	1	772448-82530-1	TOOTH ASSY	3							
20-1	1	772448-82530-3	TOOTH ASSY	3							S
(A=M/#28166)											

Fig.75. BLADE



(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

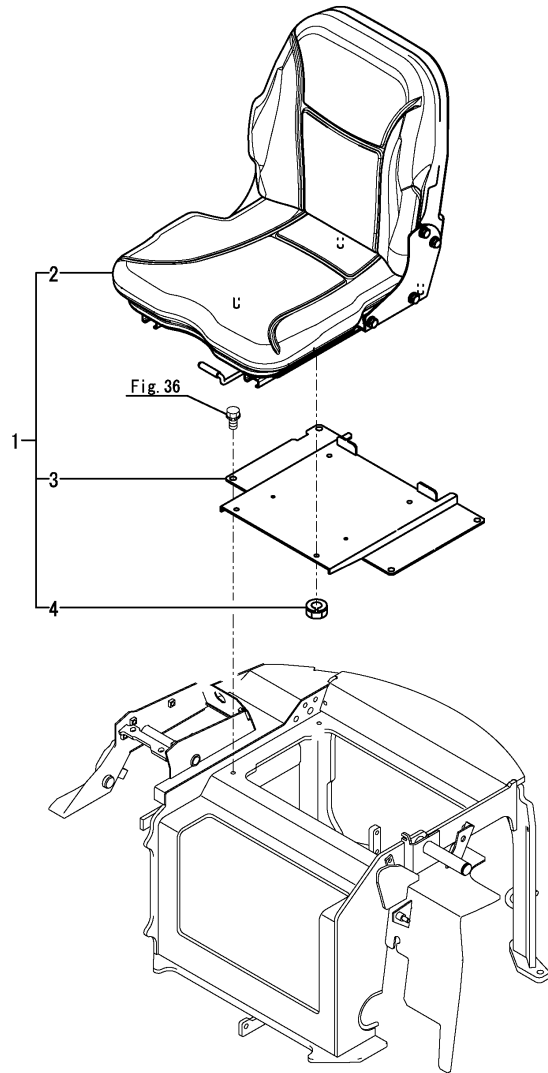
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	4	4						
2	1	172110-36010	COLLAR	4	4						
3	1	172A55-94250	PIN ASSY, 30X76 A	2	2						
4	1	172A55-94270	PIN ASSY, 30X76 B	2	2						
5	1	172448-94490-2	BLADE ASSY (82)	1	1						
5-1	1	172448-94490-1	BLADE ASSY (49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
6	2	172448-81600	SEAL, DUST 30X40X4	4	4						
7	1	172448-94602-1	BLADE ASSY,SIDE L(82)	1	1						
7-1	1	172448-94602-2	BLADE ASSY,SIDE L(49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
8	1	172448-94612-1	BLADE ASSY,SIDE R(82)	1	1						
8-1	1	172448-94612-2	BLADE ASSY,SIDE R(49)	1	1						S
		(A=M/#28166) (B=M/#28166)									
9	1	172448-94700	PIN 25X143	2	2						
10	1	172448-94710	PIN 25	2	2						
11	1	22417-400400	PIN, COTTER 4.0X40	2	2						
12	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
13	1	24761-040000	NIPPLE, GREASE B	2	2						
14	1	26013-100252	BOLT, M10X 25	4	4						
15	1	933160-06711	SHIM ASSY	4	4						

Fig.78. SEAT KIT(OPTIONAL)

(A)=VIO15-2A(US)  
 (B)=VIO15-2A(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A55-08600 (A="2017.11.)	SEAT KIT,WOOCHANG SP (B="2017.11.)	1	1						W
2	2	172A23-64050	SEAT ASSY	1	1						
3	2	172A55-64771	PLATE ASSY, SEAT US	1	1						
4	2	26051-080002	NUT, M8	4	4						

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Parts No.	Fig. No.	Ref. No.
101720-55750	10	43
102103-55520	10	27
		38
103954-13201	5	6
104200-11920	9	13
104200-55321	10	34
104200-55330	10	24
		35
104200-55341	10	36
104200-55750	10	31
		44
105027-12580	5	15
105425-01690	7	23
106990-44660	9	28
110250-55610	10	28
		39
119225-52102	10	22
119247-77100	13	19
119258-12530	5	12
119650-77910	13	21
119653-77710	13	20
119655-12560	5	14
119808-12540	5	13
119810-55340	10	25
119810-55650	10	30
119813-44510	8	30
119833-55620	10	23
121250-49121	8	3
121250-55620	10	29
121254-55510	10	26
121256-44600	8	37
121257-55720	10	40
121257-55731	10	41
124064-55510	10	37
124450-44550	8	36
124701-11911	5	5
124766-59050	8	39
	9	29
	10	48
129211-77920	13	24
129335-55700	10	33
171081-55910	10	45
172010-01640	70	1
	71	1
	72	1
	75	1
172068-28490	22	19
		27
	28	2
172110-36010	75	2

Parts No.	Fig. No.	Ref. No.
172110-45050	22	22
		30
172113-12522	6	6
172117-83970-6	70	14
172117-83970-7	70	14 -1
172122-14610	10	3
172122-37844	18	13
172122-46590	22	45
	26	32
	29	10
172122-70350	47	15
172122-73430	47	27
172122-73470	47	41
172122-73480	47	42
172122-79930	60	11
	61	29
	62	25
	64	22
	67	9
	68	26
		27
172123-76121	61	1
		2
		3
	62	1
		2
		3
	64	2
	67	3
	68	1
		6
172124-46200	21	17
	22	14
	26	9
	29	9
172124-76100	60	2
172125-03951	1	51
	2	50
172126-11510	10	1
	12	1
172126-16540	6	7
	8	28
	10	20
	12	4
	15	1
	24	11
172137-16560	8	29
	10	21
	12	6
172137-37850	18	17

Parts No.	Fig. No.	Ref. No.
172137-70490	48	10
172137-70570	48	11
172137-70580	48	12
172137-74520	51	11
		27
	52	24
	53	8
		23
	54	24
	55	8
		21
	56	8
172137-81300	72	3
	73	2
172137-84451	73	5
172137-86240	74	4
172141-41340	22	1
172141-41360	26	2
	27	4
	28	19
172141-41370	21	2
	22	3
		6
	26	7
	29	7
172141-64350	36	6
172141-70110	47	10
172141-70150	47	12
172141-70160	47	13
172141-70290	47	70
172141-70310	47	71
172141-70370	47	5
		90
172141-70410	47	81
172141-70420	47	82
172141-70440	47	83
		91
172141-70450	47	6
172141-72561	41	9
		17
172141-72580	43	14
	45	14
	46	14
172141-76180	61	9
	62	5
	68	7
172141-76920	61	12
172141-77260	48	36
172141-77400	48	51
172141-77800	69	3

Parts No.	Fig. No.	Ref. No.
172141-82270	71	4
	72	6
172141-84601	70	15
	71	8
172142-62300	34	6
172142-72560	44	8
172142-73800	49	3
172142-76950	66	11
172142-78810	68	16
172146-12150	6	4
172146-45630	26	30
172146-72211	41	16
172146-82910	70	13
172147-70120	47	11
172147-70220	47	3
172147-76180	64	3
172148-70301	47	4
		14
172148-71580	47	49
172148-73350	48	13
172148-73870	49	5
172149-57610	32	9
172149-57620	32	10
172149-57630	32	11
172149-72440	42	9
		19
		43
		16
		19
		45
		17
		20
172149-83220	73	10
	74	11
172151-45010	23	2
172156-17401	16	1
172156-17420	16	3
172156-61320	35	4
172157-03170	1	6
	2	6
172157-13150	7	3
172157-45840	15	9
172157-45990	26	23
	28	10
172157-58830	58	18
172157-70630	51	4
	52	2
	53	2
		16
	55	2
	56	2
172157-70640	51	5

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Parts No.	Fig. No.	Ref. No.
172157-70640	52	3
	53	3
		17
	55	3
	56	3
172157-70690	51	6
		20
	52	14
	53	4
		18
	54	17
	55	4
		14
	56	4
172157-70700	51	7
		21
	52	4
		15
	53	5
		19
	54	18
	55	5
		15
	56	5
172157-70720	51	8
	52	16
172157-70820	51	9
	52	5
	53	6
		20
	55	6
	56	6
172157-73910	49	12
172157-76150	61	8
172157-76220	66	3
172157-76300	60	3
172162-14200	9	4
172162-15310	8	10
172162-46690	21	18
	27	7
172162-61850	12	9
172162-70780	47	7
172162-76320	64	4
172164-45951	22	8
172164-45961	22	9
172164-45970	24	4
172164-65580	37	17
172164-66170	37	30
		35
172165-45071	23	5

Parts No.	Fig. No.	Ref. No.
172165-45970	20	6
172165-46340	26	24
	28	11
172165-47550	21	20
172165-47871	23	6
172165-47980	21	8
172165-47990	21	9
172165-82520	70	3
172165-82530	70	4
172165-82580	70	5
172165-82590	70	6
172165-82600	70	7
172168-65790	8	14
172168-71880	47	72
172168-71890	47	73
172168-71900	47	74
172168-71910	47	75
172168-71920	47	76
172168-71950	47	8
172168-72410	44	13
172168-73580	48	17
172168-73590	48	19
172168-73600	48	21
172171-13461	10	2
172171-54750	32	4
172171-72130	41	14
	42	7
	44	7
172173-72550	41	25
	42	21
	43	10
	45	10
	46	10
172173-73510	48	14
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