

0CS10-M41801EN

# P R E F A C E

1. This Parts Catalog is the 1st edition of Yanmar crawler backhoe Vio15-2 for U.S.A. & Australia.

Pub. No. : 000Y00S4181

Published : Dec., 2005

2. Parts catalog history

	Parts catalog NO.	Published	Remarks
1st edition	000Y00S4180	Mar., 2002	Disuse old edition
1st revised	000Y00S4181	Dec., 2005	

3. Model name

	Column	Model name	M/#	Manufactured
I (Vehicle)	(A)	Vio15-2 (US)	20870~	2002/2~
	(B)	Vio15-2 (AS)	20879~	2002/3~
II (Engine)	(A)	3TN68-EBVA	80521~	2001/12~

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.

## Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N	1
		(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9			
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHAFT	1	1	1	1	1			
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2			
6	2	129470-51060	RETAINER	1	1	1	1	1			

Remarks

(1) BOOST COMPEMSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

### ① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1

1

(Before change)

1-1

(After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

### ② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ----- Main parts (Assembly parts)

2 ----- Sub component included in " 1 ".

3 ----- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

### ③ Interchangeability Mark

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \rightarrow \end{matrix}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \rightarrow \end{matrix}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \rightarrow \end{matrix}$ New	New/ Old Parts are both interchangeable.
S	Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \rightarrow \end{matrix}$ New	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

### ④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

### ⑤ Remarks Mark

Figures or alphabets (symbols) are entered in the remarks column.

The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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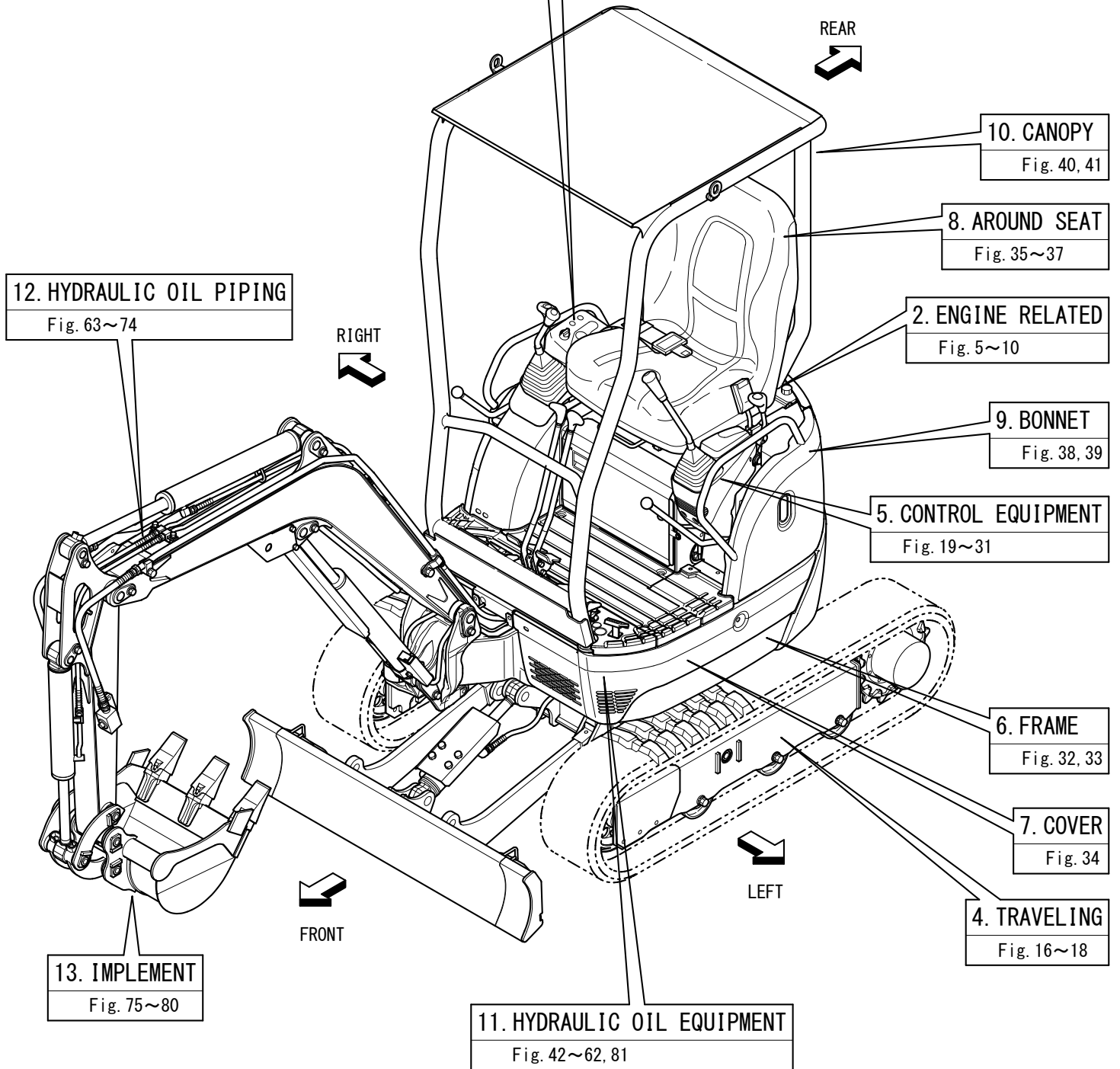
Fig. 82

## 3. ELECTRICAL PARTS

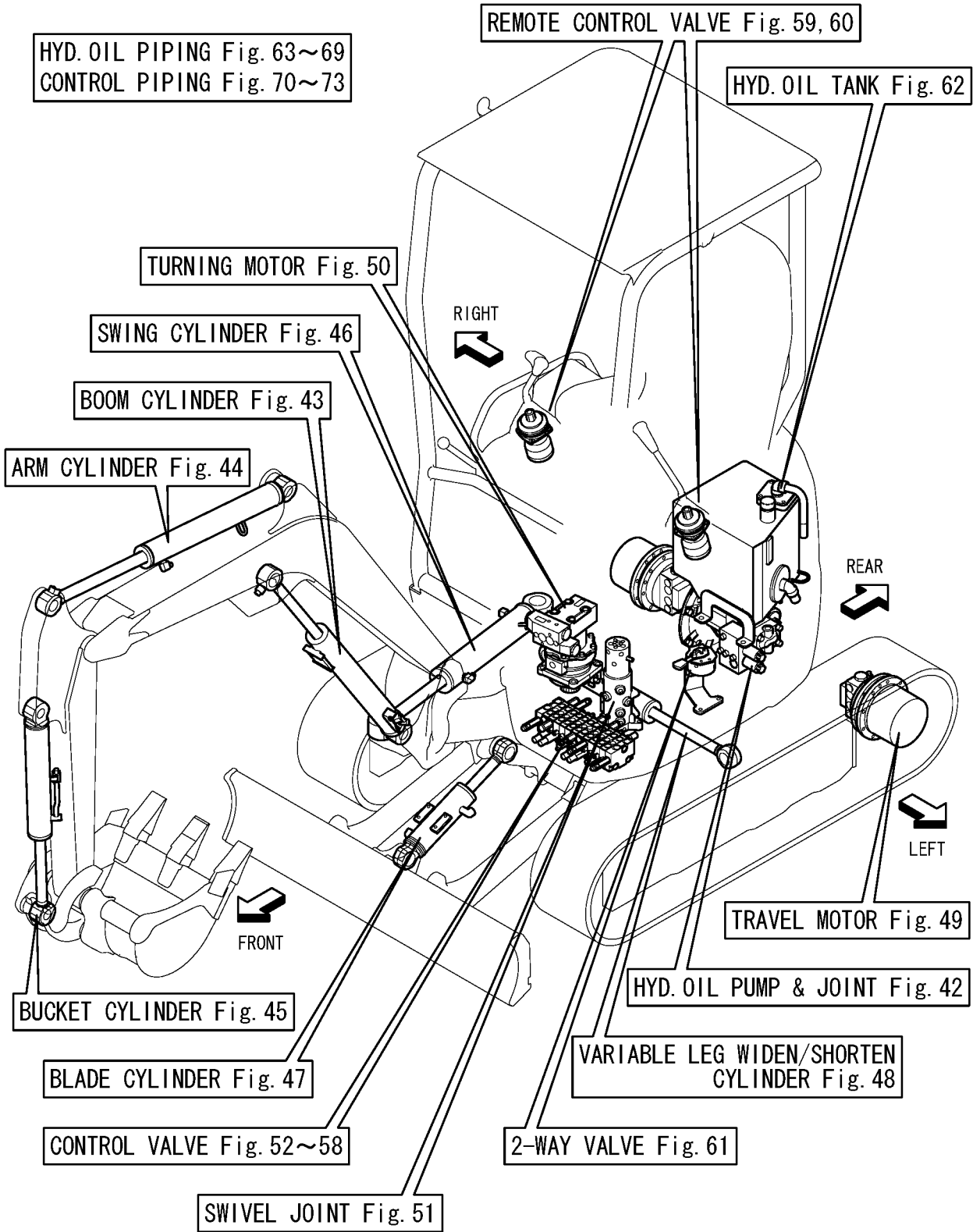
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Fig. No. Fig. Name

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# Contents

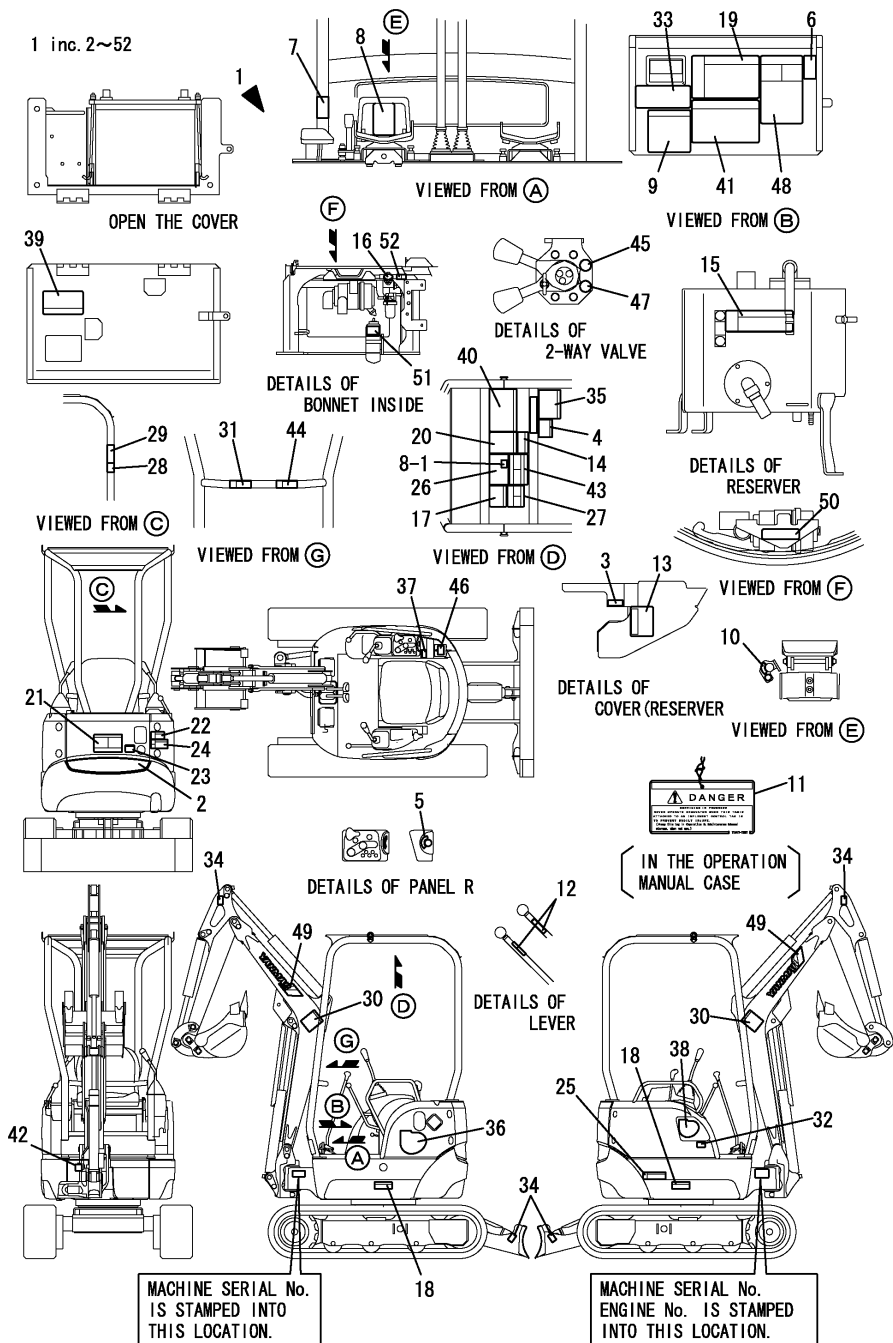
0CS10-M41801

Fig. No.	Fig. Name
<b>IMPLEMENT</b>	
75.	BOOM BRACKET
76.	BOOM
77.	ARM
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79.	BUCKET
80.	BLADE
<b>OPTIONAL &amp; KIT</b>	
82.	SEAT KIT(OPTIONAL)

Fig. No.	Fig. Name
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Fig.1. LABEL(ROPS)



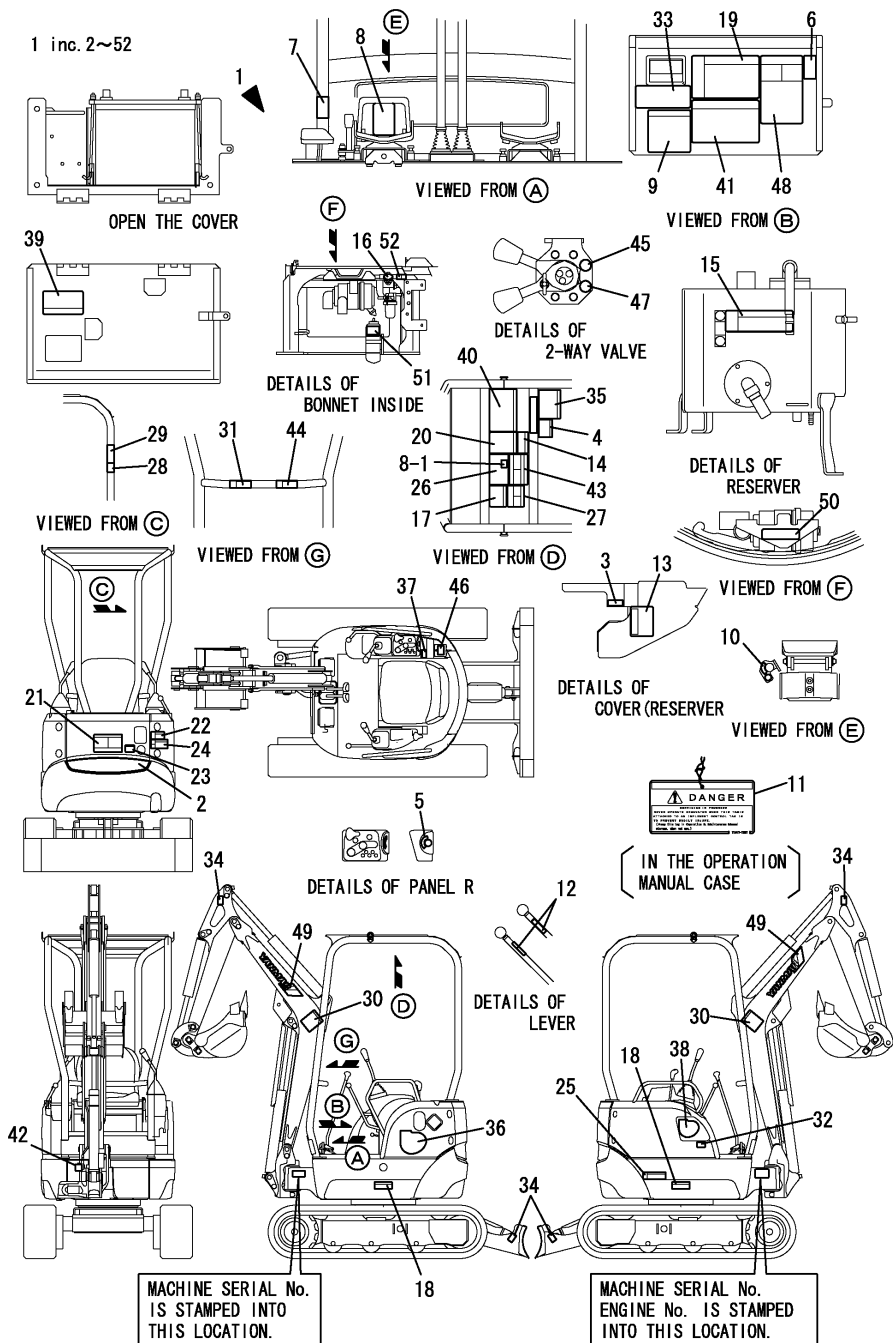
(A)=VIO15-2(US)  
(B)=VIO15-2(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R
1	1	772448-03110	LABEL SET,V15-2 ROPS	1	1							
2	2	172448-03150	LABEL,REAR	1	1							
3	2	172519-03151	LABEL,ACCELERATOR	1								
3-1	2	172519-03150	LABEL, ACCEL	1	1							N
(A=M/#20501)												
4	2	172472-03160	LABEL,GREASE	1	1							
5	2	172157-03170	LABEL, KEY SWITCH	1	1							
6	2	172448-03180	LABEL,W/S OPERATION	1	1							
7	2	172147-03210	LABEL,2 SPEED	1								Z
(A=M/#21434)												
8	2	172165-03231	LABEL, P.T.O.	1	1							
8-1	2	172496-03250	LABEL, P.T.O.	1	1							N
(A=M/#21434)												
9	2	172437-03241	LABEL,CRAWLER	1	1							
9-1	2	172437-03242	LABEL, CRAWLER US	1	1							N
(A=M/#20870)												
10	2	172458-03240	LABEL,LOCK	1	1							
11	2	172437-03250	TAG ASSY, CAUTION	1	1							
11-1	2	172437-03251	TAG ASSY, CAUTION	1	1							N
(A=XXX)												
12	2	172183-03280	LABEL,LOCK	2	2							
13	2	172463-03290	LABEL,HYD.OIL US	1	1							
14	2	172437-03310	LABEL,SLOPE	1								
14-1	2	172437-03311	LABEL, SLOPE US	1								N
(A=M/#20870)												
14-2	2	172437-03312	LABEL,SLOPE US	1	1							N
(A=XXX)												
15	2	172437-03320	LABEL,HYD.OIL TANK	1								
15-1	2	172437-03321	LABEL,HYD.OIL TANK	1	1							R
(A=M/#21339)												
15-2	2	172437-03322	LABEL, HYD.OIL TANK	1	1							N
(A=M/#20870)												
16	2	172462-03320	LABEL	1	1							
17	2	172437-03340	LABEL,TRANSPORT	1								
17-1	2	172437-03341	LABEL,TRANSPORT	1								R
(A=M/#21339)												
17-2	2	172437-03342	LABEL, TRANSPORT US	1	1							N
(A=M/#20870)												
18	2	172437-03351	LABEL,GREASE CYL.	2								
18-1	2	172437-03352	LABEL, GREASE CYL.	2	2							N
(A=M/#20870)												
19	2	172437-03360	LABEL,BATTERY	1								
19-1	2	172437-03361	LABEL, BATTERY US	1	1							N
(A=M/#20870)												
20	2	172437-03371	LABEL	1								
20-1	2	172437-03372	LABEL, NEUTRAL US	1	1							N
(A=M/#20870)												
21	2	172437-03380	LABEL,SWING AREA	1								
21-1	2	172437-03381	LABEL,SWING AREA US	1	1							N
(A=M/#20870)												
22	2	172437-03390	LABEL,RADIATOR	1								

N:Old  $\xrightarrow{\text{Yes}}$  New, Q:Old  $\xrightarrow{\text{No}}$  New, R:Old  $\xrightarrow{\text{Yes}}$  New, S:Old  $\xrightarrow{\text{No}}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
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Fig.1. LABEL(ROPS)

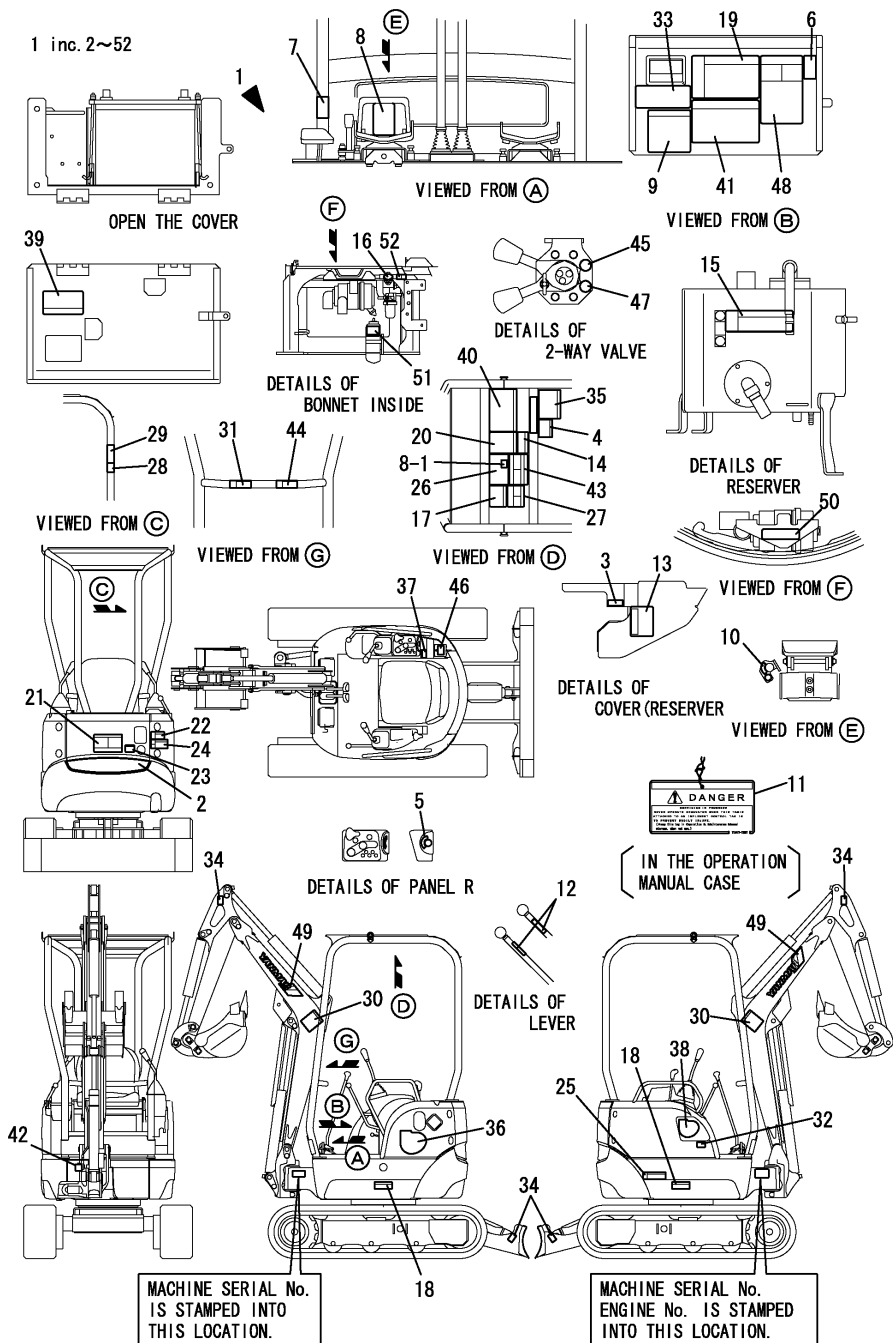


(A)=VIO15-2(US)  
(B)=VIO15-2(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
22-1	2	172437-03391 (A=M/#20870)	LABEL, RADIATOR US	1	1						N
23	2	172437-03400	LABEL,ENG.HOOD		1						
23-1	2	172437-03401 (A=M/#21339)	LABEL (ENG COVER US		1						R
23-2	2	172437-03402 (A=M/#20870)	LABEL, ENG,COVER US	1	1						N
24	2	172437-03410	LABEL,ENG.ROOM		1						
24-1	2	172437-03411 (A=M/#21339)	LABEL (ENG ROOM US	1	1						R
25	2	172437-03421	LABEL,MUFFLER		1						
25-1	2	172437-03422 (A=M/#20870)	LABEL, MUFFLER US	1	1						N
26	2	172149-03430	LABEL		1						
26-1	2	172490-03200 (A=M/#M21434)	LABEL	1	1						N
27	2	172437-03431	LABEL,STEERING		1						
27-1	2	172437-03432 (A=M/#20870)	LABEL, STEERING US	1	1						N
28	2	172437-03440	LABEL,ROPS		1						
28-1	2	172437-03441 (A=M/#20870)	LABEL, ROPS US	1	1						N
29	2	172437-03450	LABEL,SEAT BELT		1						
29-1	2	172437-03451 (A=M/#20870)	LABEL, SEAT BELT US	1	1						N
30	2	172437-03460	LABEL, BOOM		2						
30-1	2	172437-03461 (A=M/#20870)	LABEL, BOOM US	2	2						N
31	2	172437-03470	LABEL,LEVER LOCK		1						
31-1	2	172437-03471 (A=M/#20870)	LABEL, LEVER LOCK US	1	1						N
32	2	172437-03500	LABEL,FUEL		1						
32-1	2	172437-03501 (A=M/#20870)	LABEL, FUEL US	1	1						N
33	2	172448-03500	LABEL,SPECIFICATION		1						
33-1	2	172448-03501 (A=M/#20941)	LABEL,SPECIFICATION		1						S
33-2	2	172448-03502 (A=M/#20870)	LABEL, SPECIFICATION	1	1						N
34	2	172437-03510	LABEL,HOOK		4						
34-1	2	172437-03511 (A=M/#20870)	LABEL, HOOK US	4	4						N
35	2	172448-03510	LABEL,OIL&WATER		1						
36	2	172448-03520	LABEL,VIO15 L		1						
36-1	2	172448-03521 (A=M/#26296)	LABEL, MODEL L US	1	1						N
37	2	172437-03530	LABEL,RE-START		1	1					
38	2	172448-03530	LABEL,VIO15 R		1						
38-1	2	172448-03531 (A=M/#26296)	LABEL, MODEL R US	1	1						N
39	2	172448-03540	LABEL,FUSE		1	1					

Fig.1. LABEL(ROPS)



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

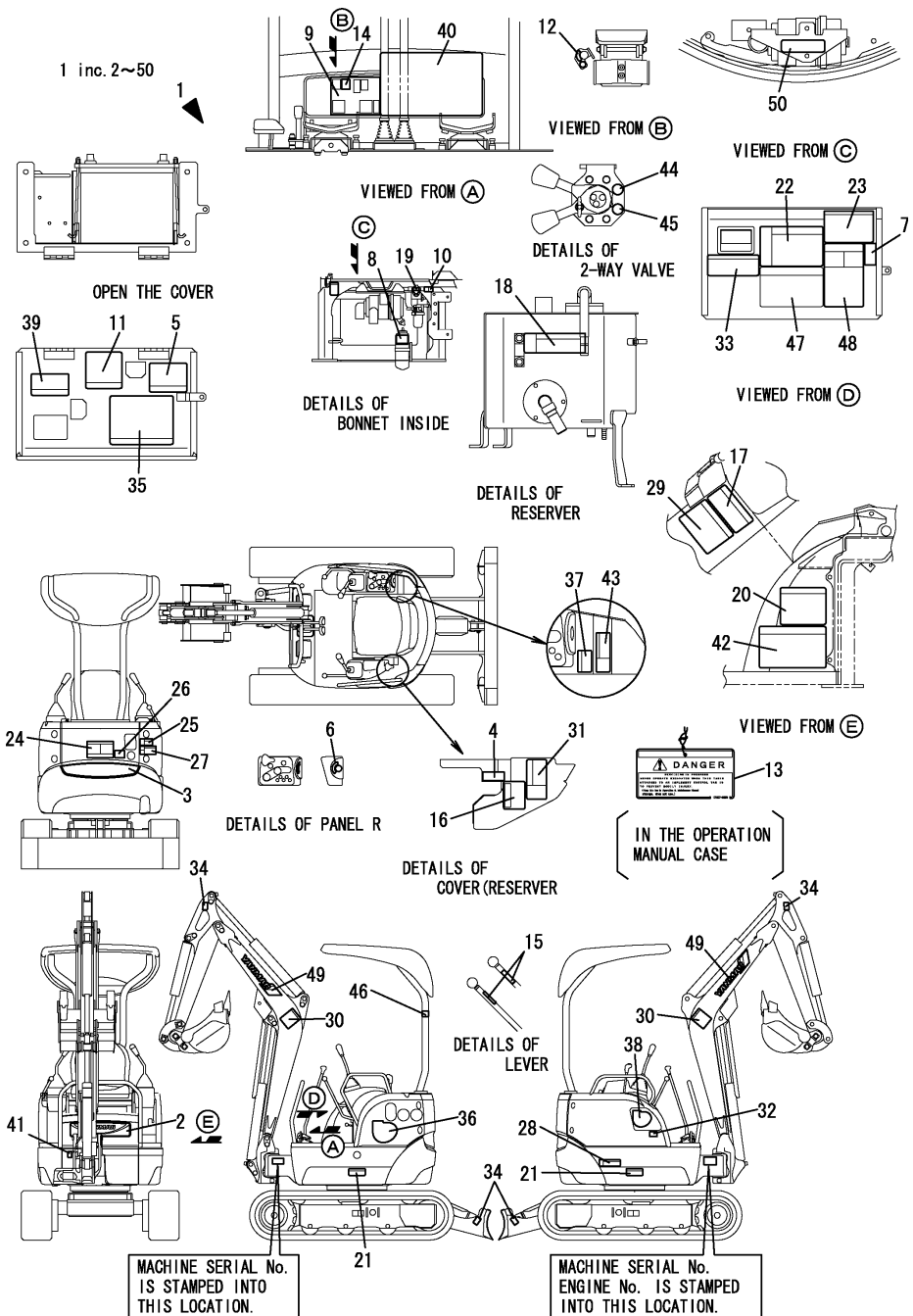
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty	(D)	(E)	(F)	I	R
40	2	172448-03560	LABEL,LIFT US	1								
40-1	2	172448-03561	LABEL,LIFT US	1	1							N
(A=M/#20870)												
41	2	172448-03570	LABEL,SUPPORT US	1								
41-1	2	172472-03141	LABEL, SUPPORT US	1	1							N
(A=M/#20870)												
42	2	172448-03590	LABEL,GREASE	1	1							
43	2	172437-03600	LABEL	1								
43-1	2	172437-03601	LABEL, 2-WAY US	1	1							N
(A=M/#20870)												
44	2	172448-03600	LABEL,MANUAL US	1	1							
45	2	172437-03610	LABEL	1	1							
46	2	172448-03610	LABEL,SEATBELT HOOK	1	1							
47	2	172437-03620	LABEL	1	1							
48	2	172446-03651	LABEL,VARIABLE US	1								
48-1	2	172446-03652	LABEL, VARIABLE US	1	1							N
(A=M/#20870)												
49	2	172519-03680	LABEL,BRAND	2	2							
50	2	172125-03950	LABEL, AIR CLEANER	1								
50-1	2	172125-03951	LABEL, AIR CLEANER	1	1							N
(A=M/#20870)												
51	2	124764-44810	LABEL,SUB-TANK	1								
51-1	2	172A38-03200	LABEL, SUB-TANK US	1	1							N
(A=M/#20870)												
52	2	124764-44920	LABEL, ANTI-FREEZING	1								
52-1	2	172A38-03210	LABEL,ANTI-FREEZING	1	1							N
(A=M/#20870)												

Fig.2. LABEL(CANOPY)

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

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

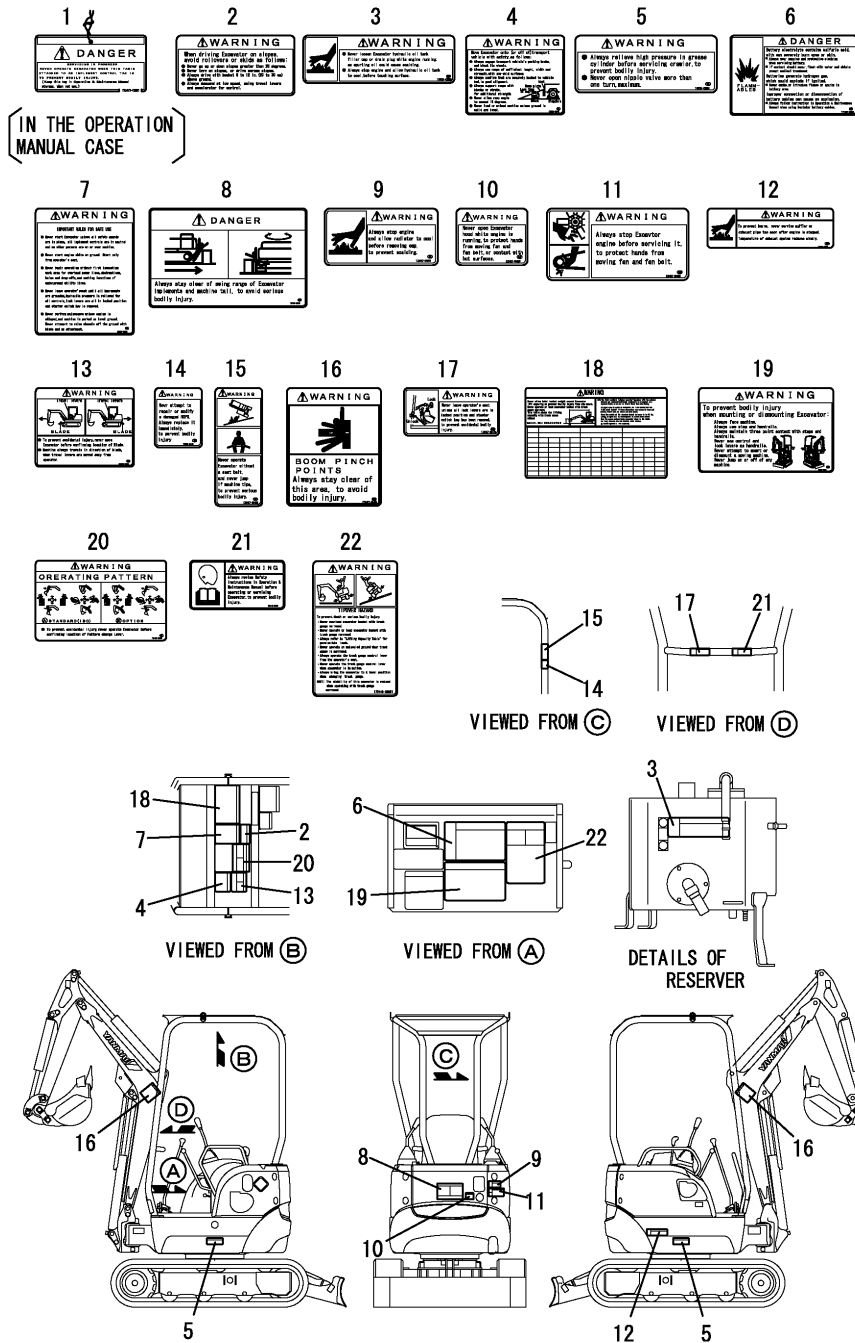


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R
1	1	772448-03220	LABEL SET,V15-2 P AS		1							
2	2	172458-03140	LABEL, FRONT		1							
3	2	172448-03150	LABEL,REAR		1							
4	2	172519-03150	LABEL, ACCEL		1							
5	2	172472-03160	LABEL,GREASE		1							
6	2	172157-03170	LABEL, KEY SWITCH		1							
7	2	172448-03180	LABEL,W/S OPERATION		1							
8	2	172A38-03200	LABEL, SUB-TANK US		1							
9	2	172490-03200	LABEL		1							
10	2	172A38-03210	LABEL,ANTI-FREEZING		1							
11	2	172437-03242	LABEL, CRAWLER US		1							
12	2	172458-03240	LABEL,LOCK		1							
13	2	172437-03251	TAG ASSY, CAUTION		1							
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	172437-03312	LABEL,SLOPE US		1							
18	2	172437-03322	LABEL, HYD.OIL TANK		1							
19	2	172462-03320	LABEL		1							
20	2	172437-03342	LABEL, TRANSPORT US		1							
21	2	172437-03352	LABEL, GREASE CYL.		2							
22	2	172437-03361	LABEL, BATTERY US		1							
23	2	172437-03372	LABEL, NEUTRAL US		1							
24	2	172437-03381	LABEL,SWING AREA US		1							
25	2	172437-03391	LABEL, RADIATOR US		1							
26	2	172437-03402	LABEL, ENG,COVER US		1							
27	2	172437-03411	LABEL (ENG ROOM US		1							
28	2	172437-03422	LABEL, MUFFLER US		1							
29	2	172437-03432	LABEL, STEERING US		1							
30	2	172437-03461	LABEL, BOOM US		2							
31	2	172437-03471	LABEL, LEVER LOCK US		1							
32	2	172437-03501	LABEL, FUEL US		1							
33	2	172448-03502	LABEL, SPECIFICATION		1							
34	2	172437-03511	LABEL, HOOK US		4							
35	2	172448-03510	LABEL,OIL&WATER		1							
36	2	172448-03521	LABEL, MODEL L US		1							
37	2	172437-03530	LABEL,RE-START		1							
38	2	172448-03531	LABEL, MODEL R US		1							
39	2	172448-03540	LABEL,FUSE		1							
40	2	172448-03561	LABEL,LIFT US		1							
41	2	172448-03590	LABEL,GREASE		1							
42	2	172437-03601	LABEL, 2-WAY US		1							
43	2	172448-03600	LABEL,MANUAL 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							
50	2	172125-03951	LABEL, AIR CLEANER		1							

Fig.3. SAFETY LABEL(ROPS)

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

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



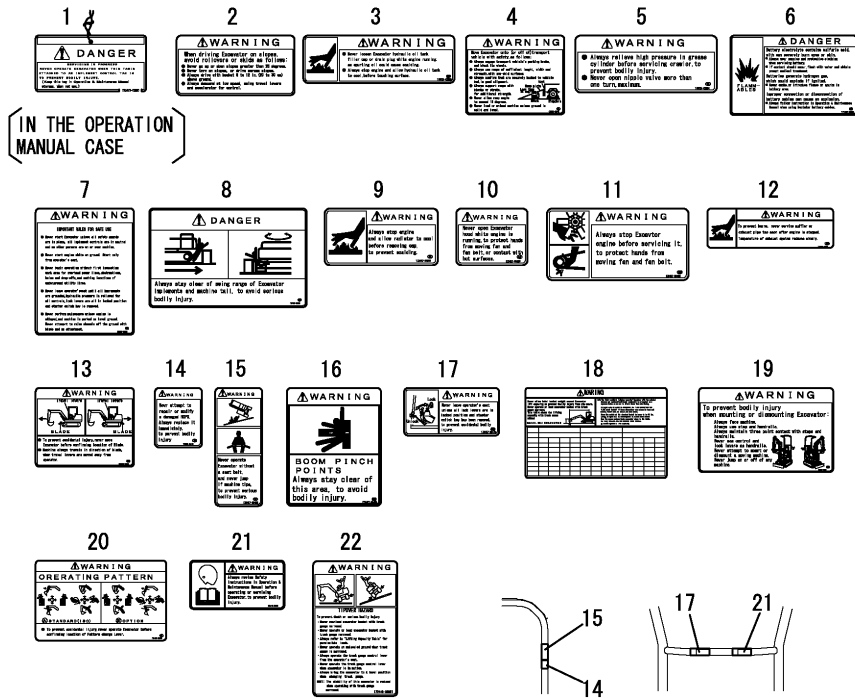
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Qty	I	R
1	1	172437-03250	TAG ASSY, CAUTION	1								
1-1	1	172437-03251	TAG ASSY, CAUTION	1	1							N
(A=XXX)												
2	1	172437-03310	LABEL,SLOPE	1								
2-1	1	172437-03311	LABEL, SLOPE US	1								N
(A=M/#20870)												
2-2	1	172437-03312	LABEL,SLOPE US	1	1							N
(A=XXX)												
3	1	172437-03320	LABEL,HYD.OIL TANK	1								
3-1	1	172437-03321	LABEL,HYD.OIL TANK	1								R
(A=M/#21339)												
3-2	1	172437-03322	LABEL, HYD.OIL TANK	1	1							N
(A=M/#20870)												
4	1	172437-03340	LABEL,TRANSPORT	1								
4-1	1	172437-03341	LABEL,TRANSPORT	1								R
(A=M/#21339)												
4-2	1	172437-03342	LABEL, TRANSPORT US	1	1							N
(A=M/#20870)												
5	1	172437-03351	LABEL,GREASE CYL.	2								
5-1	1	172437-03352	LABEL, GREASE CYL.	2	2							N
(A=M/#20870)												
6	1	172437-03360	LABEL,BATTERY	1								
6-1	1	172437-03361	LABEL, BATTERY US	1	1							N
(A=M/#20870)												
7	1	172437-03371	LABEL	1								
7-1	1	172437-03372	LABEL, NEUTRAL US	1	1							N
(A=M/#20870)												
8	1	172437-03380	LABEL,SWING AREA	1								
8-1	1	172437-03381	LABEL,SWING AREA US	1	1							N
(A=M/#20870)												
9	1	172437-03390	LABEL,RADIATOR	1								
9-1	1	172437-03391	LABEL, RADIATOR US	1	1							N
(A=M/#20870)												
10	1	172437-03400	LABEL,ENG.HOOD	1								
10-1	1	172437-03401	LABEL (ENG COVER US	1								R
(A=M/#21339)												
10-2	1	172437-03402	LABEL, ENG,COVER US	1	1							N
(A=M/#20870)												
11	1	172437-03410	LABEL,ENG.ROOM	1								
11-1	1	172437-03411	LABEL (ENG ROOM US	1	1							R
(A=M/#21339)												
12	1	172437-03421	LABEL,MUFFLER	1								
12-1	1	172437-03422	LABEL, MUFFLER US	1	1							N
(A=M/#20870)												
13	1	172437-03431	LABEL,STEERING	1								
13-1	1	172437-03432	LABEL, STEERING US	1	1							N
(A=M/#20870)												
14	1	172437-03440	LABEL,ROPS	1								
14-1	1	172437-03441	LABEL, ROPS US	1	1							N
(A=M/#20870)												
15	1	172437-03450	LABEL,SEAT BELT	1								

N:Old  $\xrightarrow{\text{Yes}}$  New, Q:Old  $\xrightarrow{\text{No}}$  New, R:Old  $\xrightarrow{\text{Yes}}$  New, S:Old  $\xrightarrow{\text{No}}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
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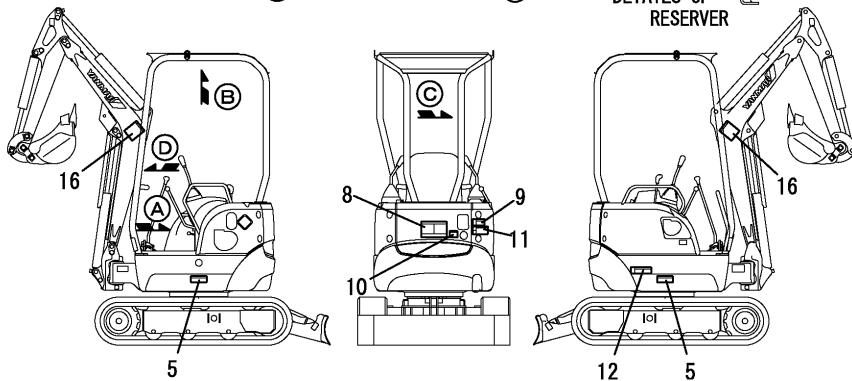
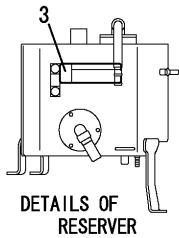
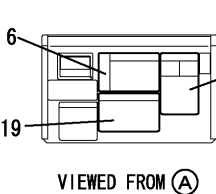
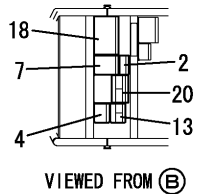
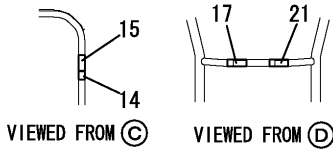
Fig.3. SAFETY LABEL(ROPS)

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

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



IN THE OPERATION  
MANUAL CASE

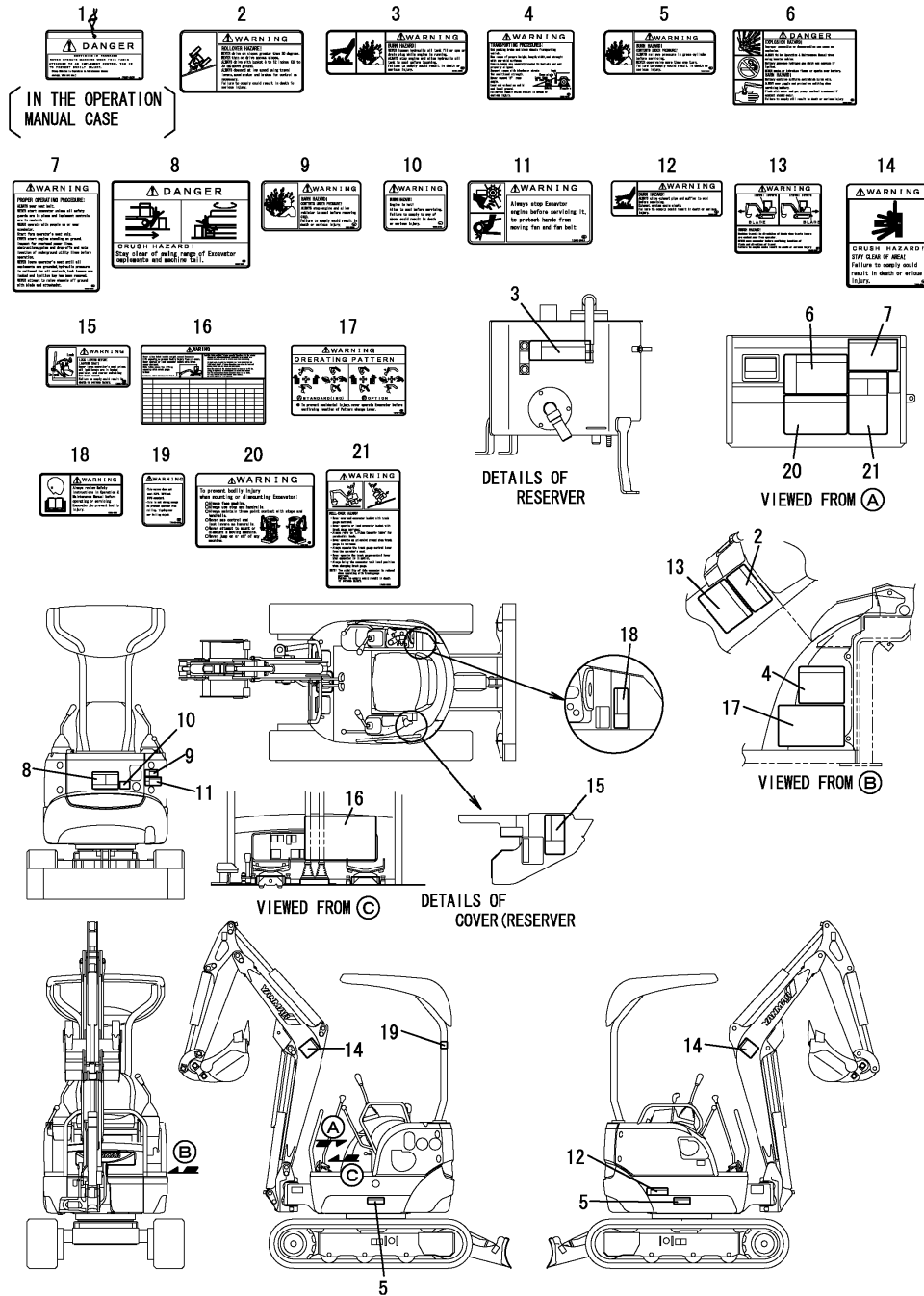


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
15-1	1	172437-03451 (A=M/#20870)	LABEL, SEAT BELT US	1	1						N
16	1	172437-03460	LABEL, BOOM		2						
16-1	1	172437-03461 (A=M/#20870)	LABEL, BOOM US	2	2						N
17	1	172437-03470	LABEL, LEVER LOCK		1						
17-1	1	172437-03471 (A=M/#20870)	LABEL, LEVER LOCK US	1	1						N
18	1	172448-03561	LABEL, LIFT US		1						
18-1	1	172448-03561 (A=M/#20870)	LABEL, LIFT US	1	1						N
19	1	172448-03570	LABEL, SUPPORT US		1						
19-1	1	172472-03141 (A=M/#20870)	LABEL, SUPPORT US	1	1						N
20	1	172437-03600	LABEL		1						
20-1	1	172437-03601 (A=M/#20870)	LABEL, 2-WAY US	1	1						N
21	1	172448-03600	LABEL, MANUAL US		1	1					
22	1	172446-03651	LABEL, VARIABLE US		1						
22-1	1	172446-03652 (A=M/#20870)	LABEL, VARIABLE US	1	1						N

Fig.4. SAFETY LABEL(CANOPY)

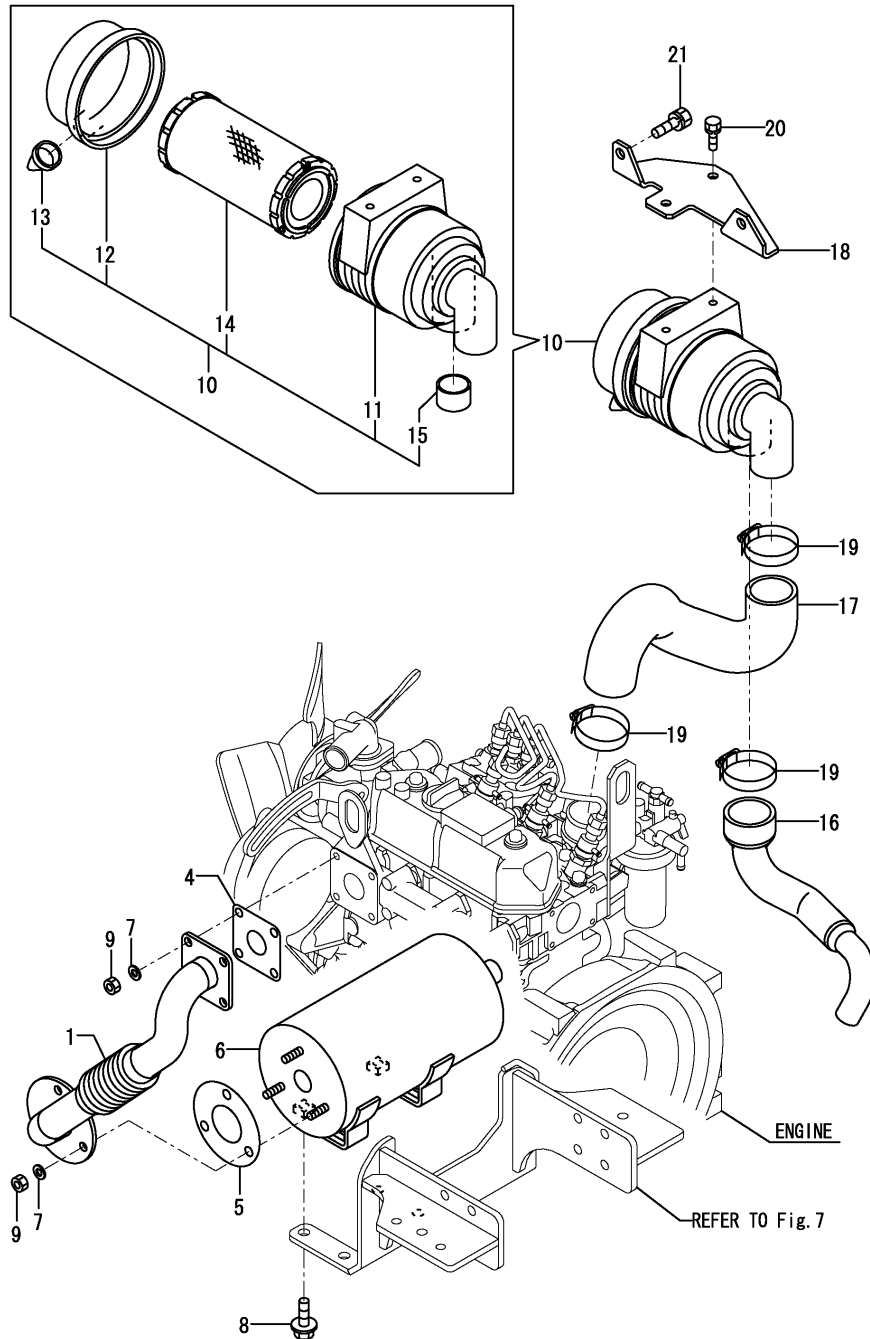
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172437-03251	TAG ASSY, CAUTION		1						
2	1	172437-03312	LABEL,SLOPE US		1						
3	1	172437-03322	LABEL, HYD.OIL TANK		1						
4	1	172437-03342	LABEL, TRANSPORT US		1						
5	1	172437-03352	LABEL, GREASE CYL.		2						
6	1	172437-03361	LABEL, BATTERY US		1						
7	1	172437-03372	LABEL, NEUTRAL US		1						
8	1	172437-03381	LABEL, SWING AREA US		1						
9	1	172437-03391	LABEL, RADIATOR US		1						
10	1	172437-03402	LABEL, ENG,COVER US		1						
11	1	172437-03411	LABEL (ENG ROOM US		1						
12	1	172437-03422	LABEL, MUFFLER US		1						
13	1	172437-03432	LABEL, STEERING US		1						
14	1	172437-03461	LABEL, BOOM US		2						
15	1	172437-03471	LABEL, LEVER LOCK US		1						
16	1	172448-03561	LABEL,LIFT US		1						
17	1	172437-03601	LABEL, 2-WAY US		1						
18	1	172448-03600	LABEL,MANUAL US		1						
19	1	172448-03620	LABEL, CANOPY AS		1						
20	1	172448-03630	LABEL, SUPPORT 2P		1						
21	1	172446-03652	LABEL, VARIABLE US		1						

Fig.5. SILENSER & AIR CLEANER



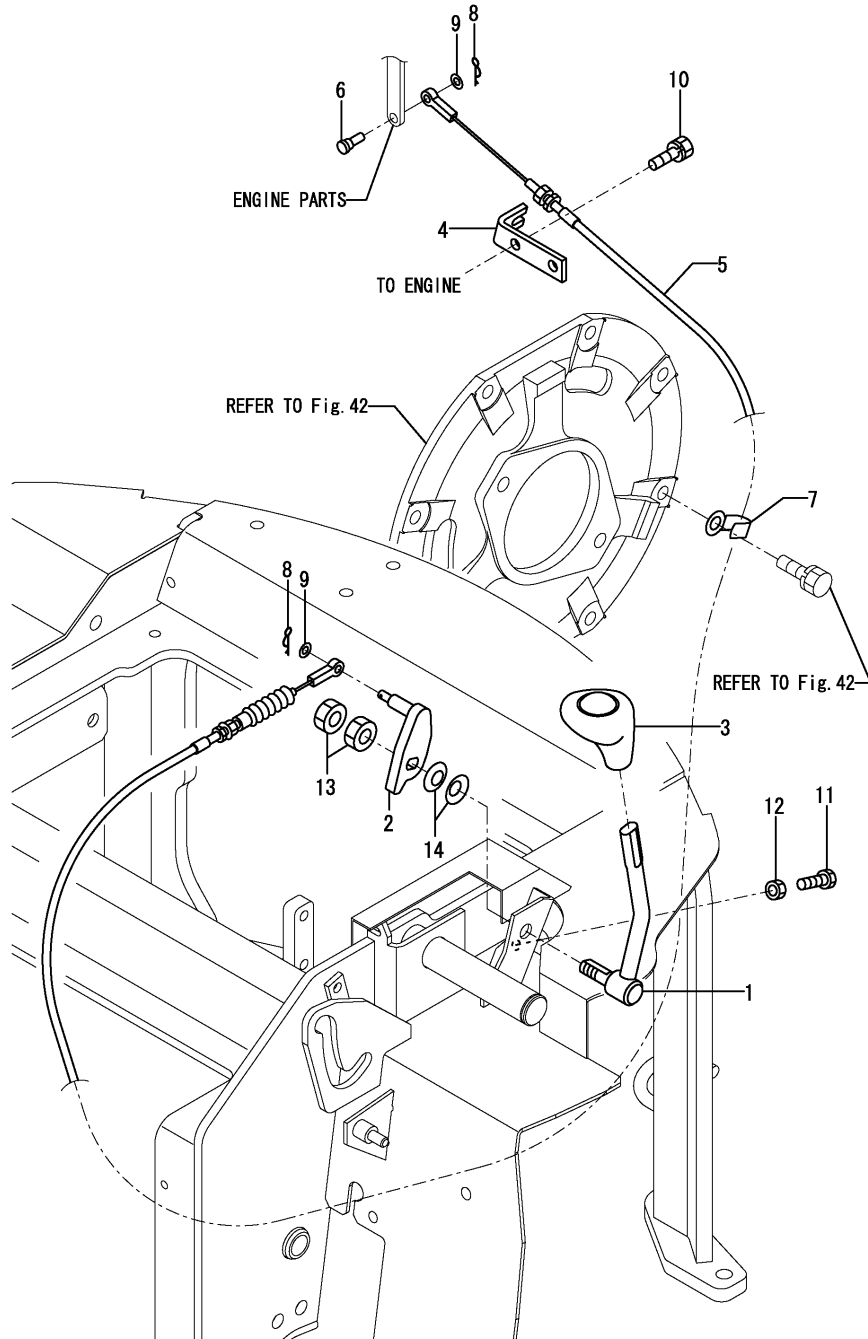
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-11300	TUBE ASSY	1	1						
4	1	124701-11911	GASKET, SILENCER	1	1						
5	1	103954-13201	GASKET, SILENCER	1	1						
6	1	119233-13600	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	172448-11530	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)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

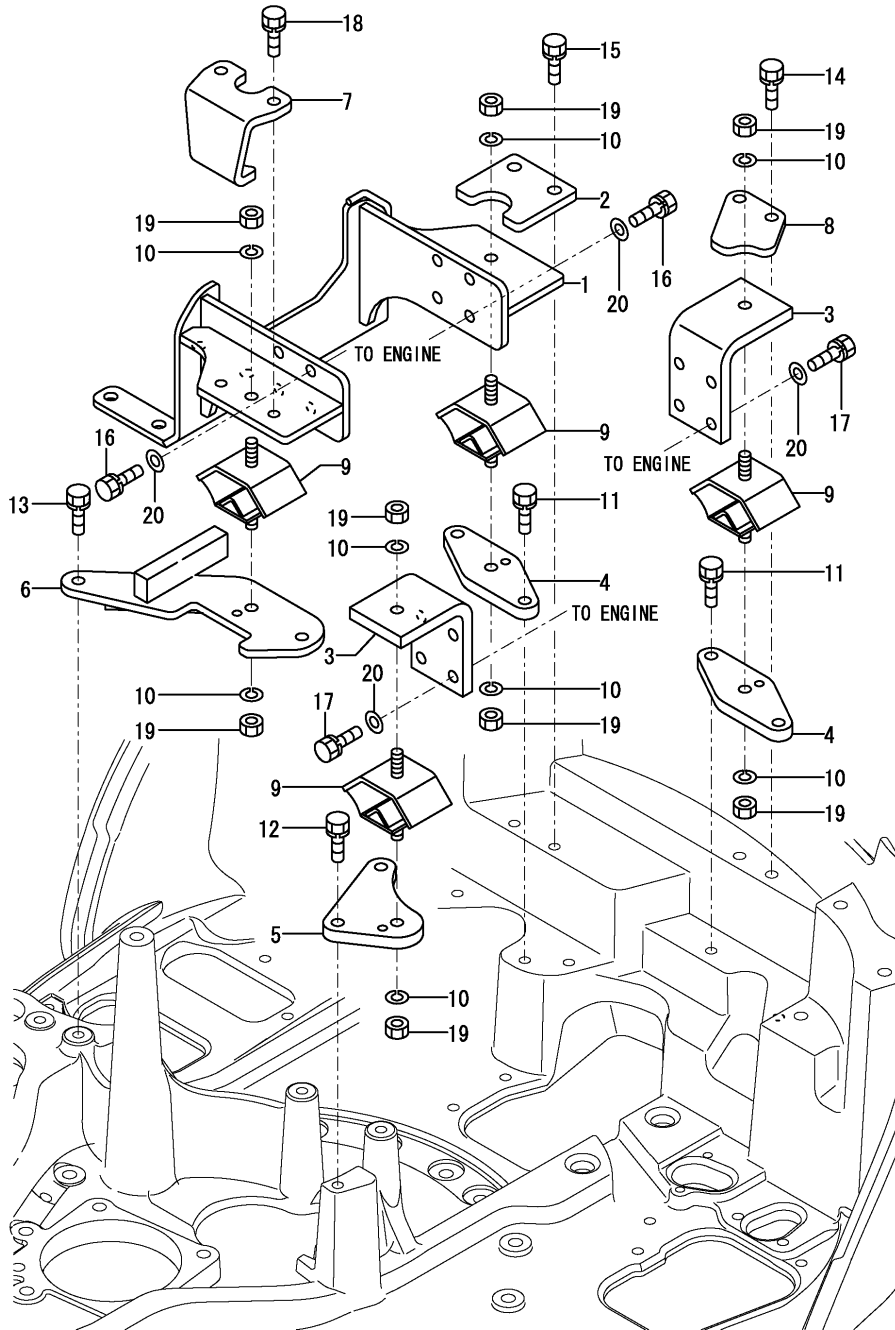
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-12100	LEVER,ACCELERATOR(72	1	1						
2	1	172448-12130	ARM ASSY	1	1						
3	1	172146-12150	GRIP, ACCELERATOR	1	1						
4	1	172183-12180	BRACKET COMP.,ACCEL.	1	1						
5	1	172448-12200	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	26013-080202	BOLT, M8X 20	2	2						
11	1	26116-080254	BOLT, M8X 25 PLATED	1	1						
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

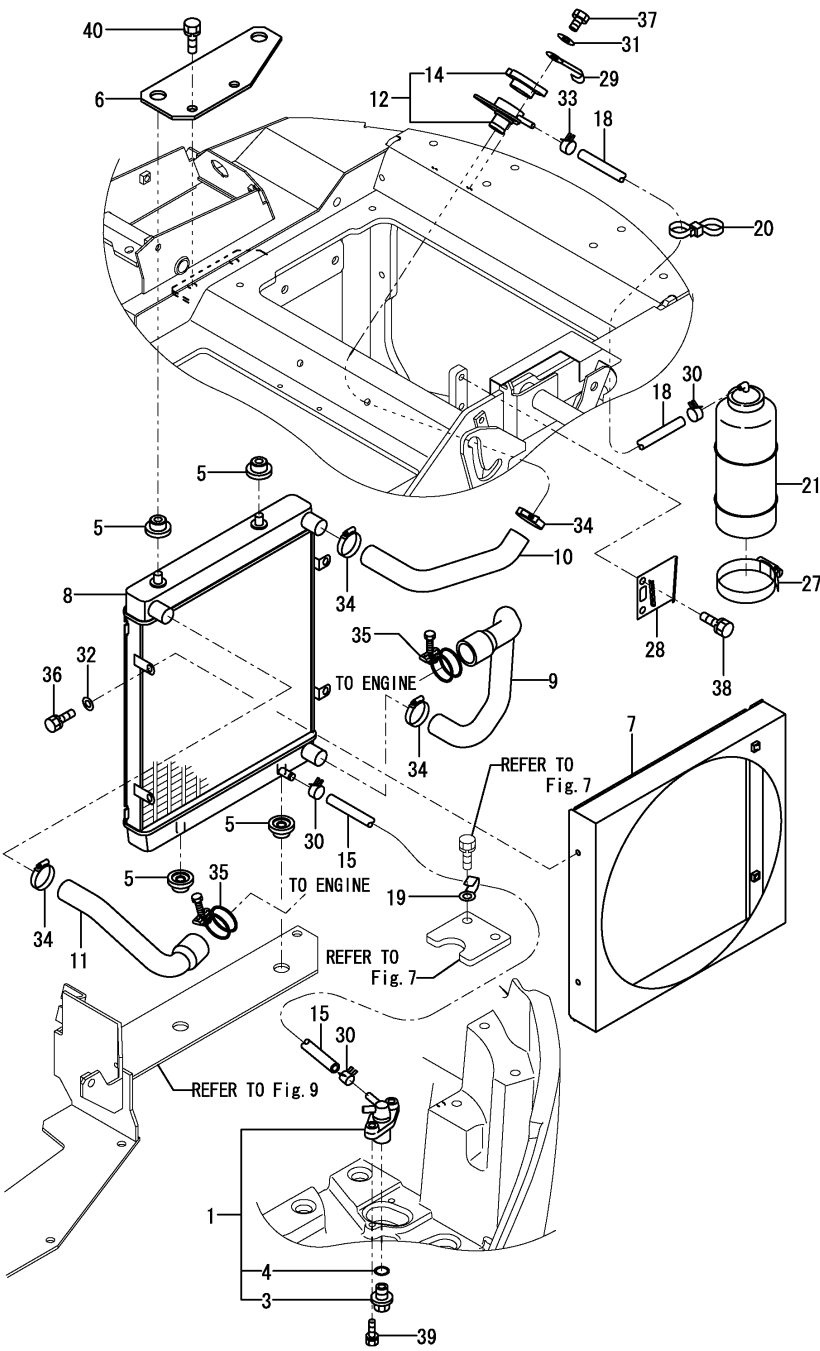
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-13100	MOUNT,ENGINE	1	1						
2	1	172157-13150	PLATE, STOPPER	1	1						
3	1	172183-13150	MOUNT,ENGINE	2	2						
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						
8	1	172448-13260	PLATE E,ENGINE	1	1						
9	1	172448-13300	ABSORBER,SHOCK	4	4						
10	1	22217-100000	WASHER, SPRING 10	8	8						
11	1	26013-100252	BOLT, M10X 25	4	4						
12	1	26013-100252	BOLT, M10X 25	2	2						
13	1	26013-100252	BOLT, M10X 25	2	2						
14	1	26013-100252	BOLT, M10X 25	2	2						
15	1	26013-100252	BOLT, M10X 25	2	2						
16	1	26013-100252	BOLT, M10X 25	8	8						
17	1	26013-100252	BOLT, M10X 25	8	8						
18	1	26013-100252	BOLT, M10X 25	2	2						
19	1	26716-100002	NUT, M10	8	8						
20	1	22137-100000	WASHER, 10	16	16						W
(A=M/#20912)											

Fig.8. RADIATOR & MOUNT

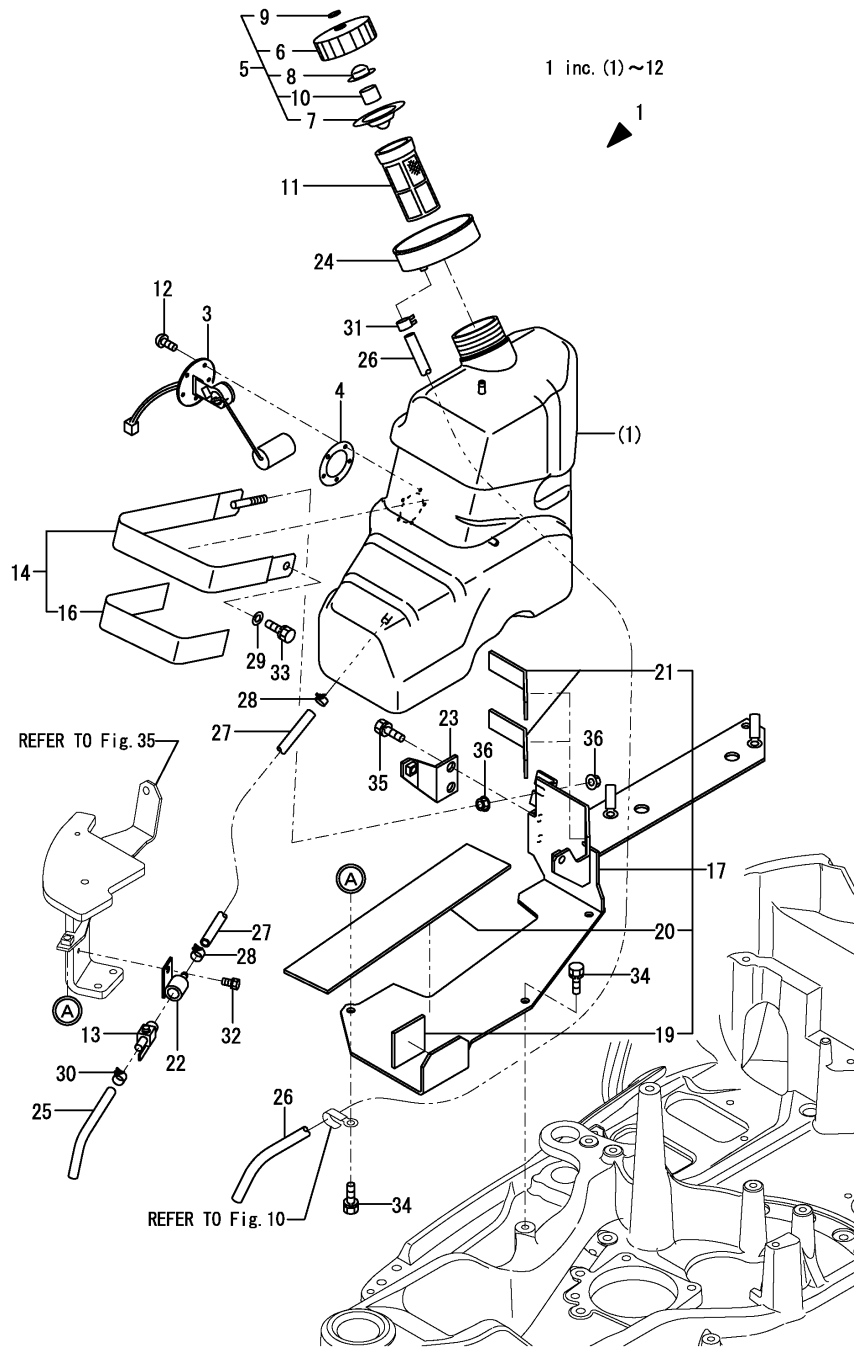


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
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	172448-13380	BRACKET,UP	1	1						
7	1	172448-13400	SHROUD ASSY	1	1						
8	1	172448-13500	RADIATOR	1	1						
9	1	172448-13510	PIPE, WATER	1	1						
10	1	172448-13520	PIPE, WATER	1	1						
11	1	172448-13530	PIPE, WATER	1	1						
12	1	172448-13540	FILLER	1	1						
14	2	172448-13560	CAP ASSY	1	1						
15	1	172187-14430	HOSE	1	1						
18	1	172183-14640	HOSE	1	1						
19	1	172126-16540	CLAMP	1	1						
20	1	172137-16560	BAND	1	1						
21	1	119813-44510	TANK ASSY	1	1						
27	1	124450-44550	BAND	1	1						
28	1	121256-44600	BRACKET, SUB TANK	1	1						
29	1	1A1680-57850	CLAMP 8X100	1							
29-1	1	1A1686-57850	CLAMP, 80	1	1						R
(A=M/#20902)											
30	1	124766-59050	CLIP, HOSE 12	3	3						
31	1	22137-060000	WASHER, 6	2	2						
32	1	22137-060000	WASHER, 6	4	4						
33	1	23000-013000	CLAMP, 13	1	1						
34	1	23000-025000	CLAMP, 25	4							
34-1	1	23001-025000	CLAMP, HOSE 25	4	4						N
(A=M/#20912)											
35	1	23010-038000	CLAMP, 38	2	2						
36	1	26013-060122	BOLT, M6X 12	4	4						
37	1	26013-060162	BOLT, M6X 16	2	2						
38	1	26013-080162	BOLT, M8X 16	2	2						
39	1	26013-080402	BOLT, M8X 40	2	2						
40	1	26013-100202	BOLT, M10X 20	2	2						

Fig.9. FUEL TANK



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

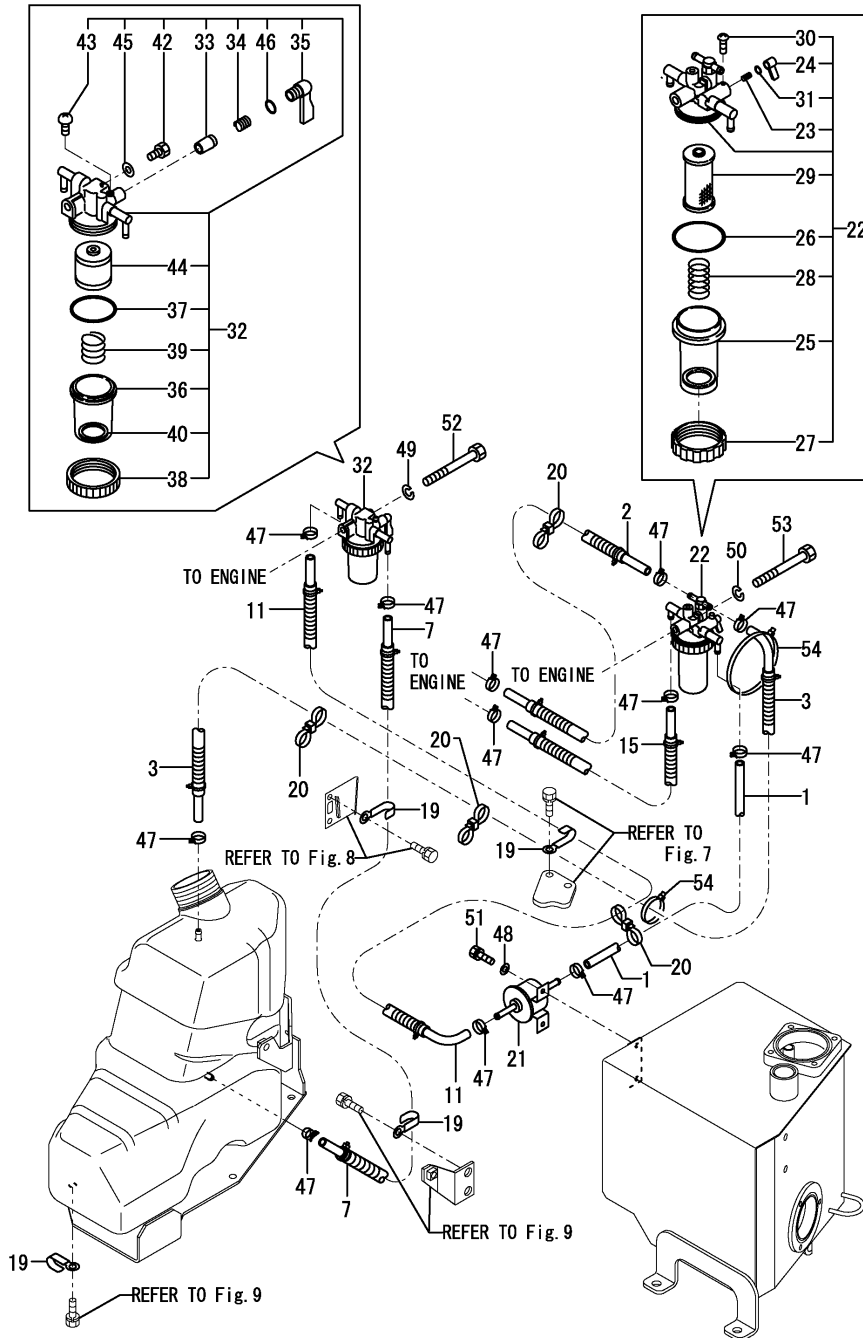
(D)=  
 (E)=  
 (F)=

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	172456-14150	GAUGE, FUEL	1							
3-1	2	172456-14151	GAUGE, FUEL	1	1						N
(A=M/#26233)											
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	172448-14200	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	124766-59050	CLIP, HOSE 12	2	2						
29	1	22137-100000	WASHER, 10	1	1						
30	1	23080-013000	CLAMP, 13	1	1						
30-1	1	106990-44660	CLIP, HOSE 12.5	1	1						R
(A=M/#26118)											
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	4	4						
35	1	26013-100202	BOLT, M10X 20	2	2						
36	1	26367-100002	NUT, M10	2	2						

Fig.10. FUEL LINE

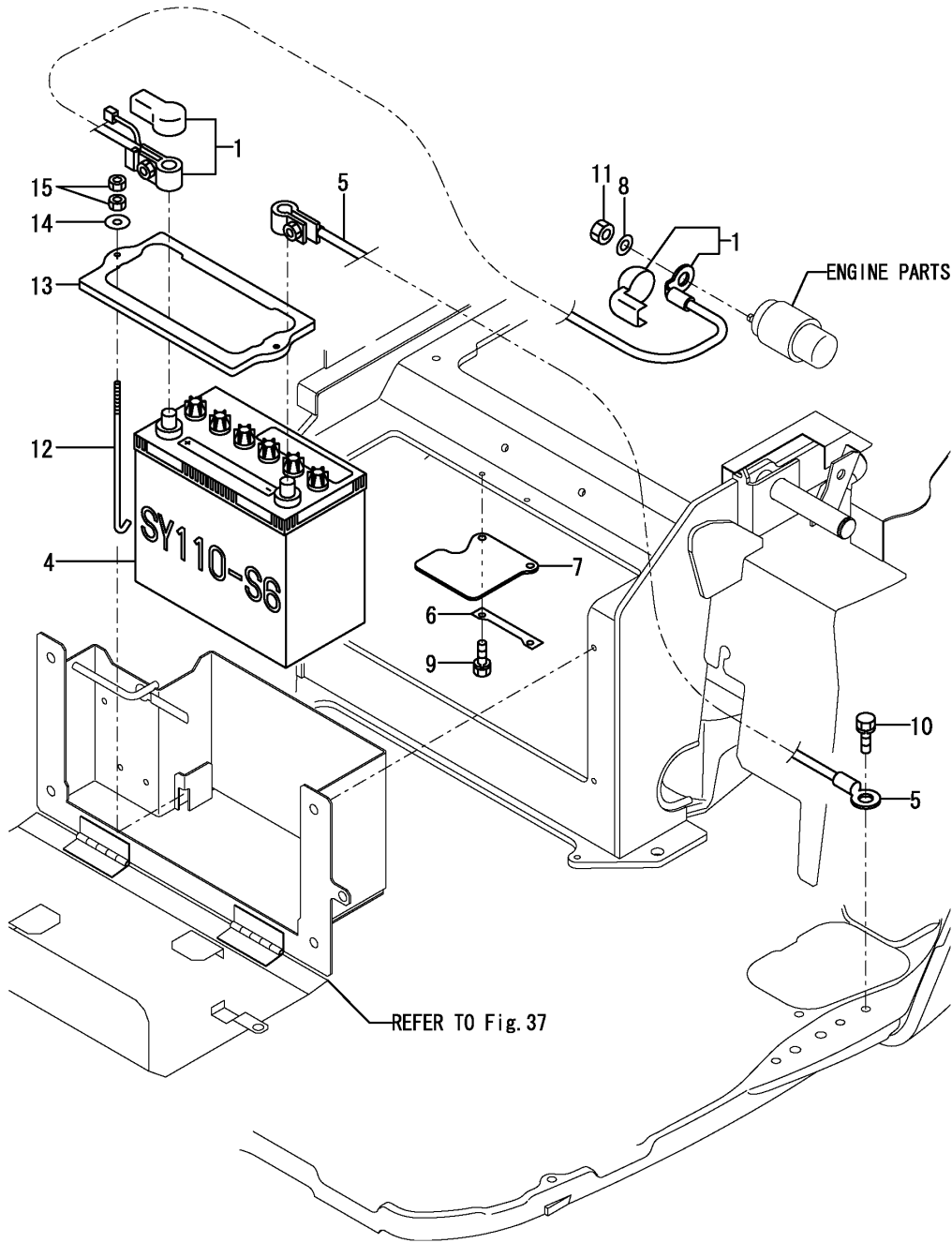
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172171-13461	HOSE 7.5X13	1	1						
2	1	172137-14610	PIPE, FUEL	1	1						
3	1	172448-14610	HOSE 1350 ,FUEL	1	1						
7	1	172448-14630	HOSE 1100 ,FUEL	1	1						
11	1	172448-14650	HOSE 1600 ,FUEL	1	1						
15	1	172448-14670	HOSE 400 ,FUEL	1	1						
19	1	172126-16540	CLAMP	4	4						
20	1	172137-16560	BAND	4	4						
21	1	119225-52102	PUMP ASSY, FUEL FEED	1	1						
22	1	119833-55620	FILTER ASSY, FUEL	1	1						
23	2	104200-55330	SPRING, VALVE	1	1						
24	2	119810-55340	LEVER	1	1						
25	2	121254-55510	COVER	1	1						
26	2	102103-55520	O-RING	1	1						
27	2	110250-55610	RING, RETAINING	1	1						
28	2	121250-55620	SPRING	1	1						
29	2	119810-55650	ELEMENT	1	1						
30	2	104200-55750	SCREW, M4	1	1						
31	2	24311-240100	O-RING, 1AP10A	1	1						
32	1	129335-55700	SEPARATOR ASSY,WATER	1	1						
33	2	104200-55321	VALVE, TAPER	1	1						
34	2	104200-55330	SPRING, VALVE	1	1						
35	2	104200-55341	HANDLE	1	1						
36	2	124064-55510	COVER	1	1						
37	2	102103-55520	O-RING	1	1						
38	2	110250-55610	RING, RETAINING	1	1						
39	2	121257-55720	SPRING	1	1						
40	2	121257-55731	FLOAT	1	1						
42	2	101720-55750	PLUG, 6	2	2						
43	2	104200-55750	SCREW, M4	1	1						
44	2	171081-55910	SCREEN	1	1						
45	2	23418-060000	GASKET, 6X1.0	2	2						
46	2	24311-240100	O-RING, 1AP10A	1	1						
47	1	124766-59050	CLIP, HOSE 12	12	12						
48	1	22137-060000	WASHER, 6	2	2						
49	1	22217-080000	WASHER, SPRING 8	1	1						
50	1	22217-080000	WASHER, SPRING 8	1	1						
51	1	26013-060202	BOLT, M6X 20	2	2						
52	1	26116-080652	BOLT, M8X 65 PLATED	1	1						
53	1	26116-080652	BOLT, M8X 65 PLATED	1	1						
54	1	172126-11510	BAND 300	2	2						

Fig.11. BATTERY

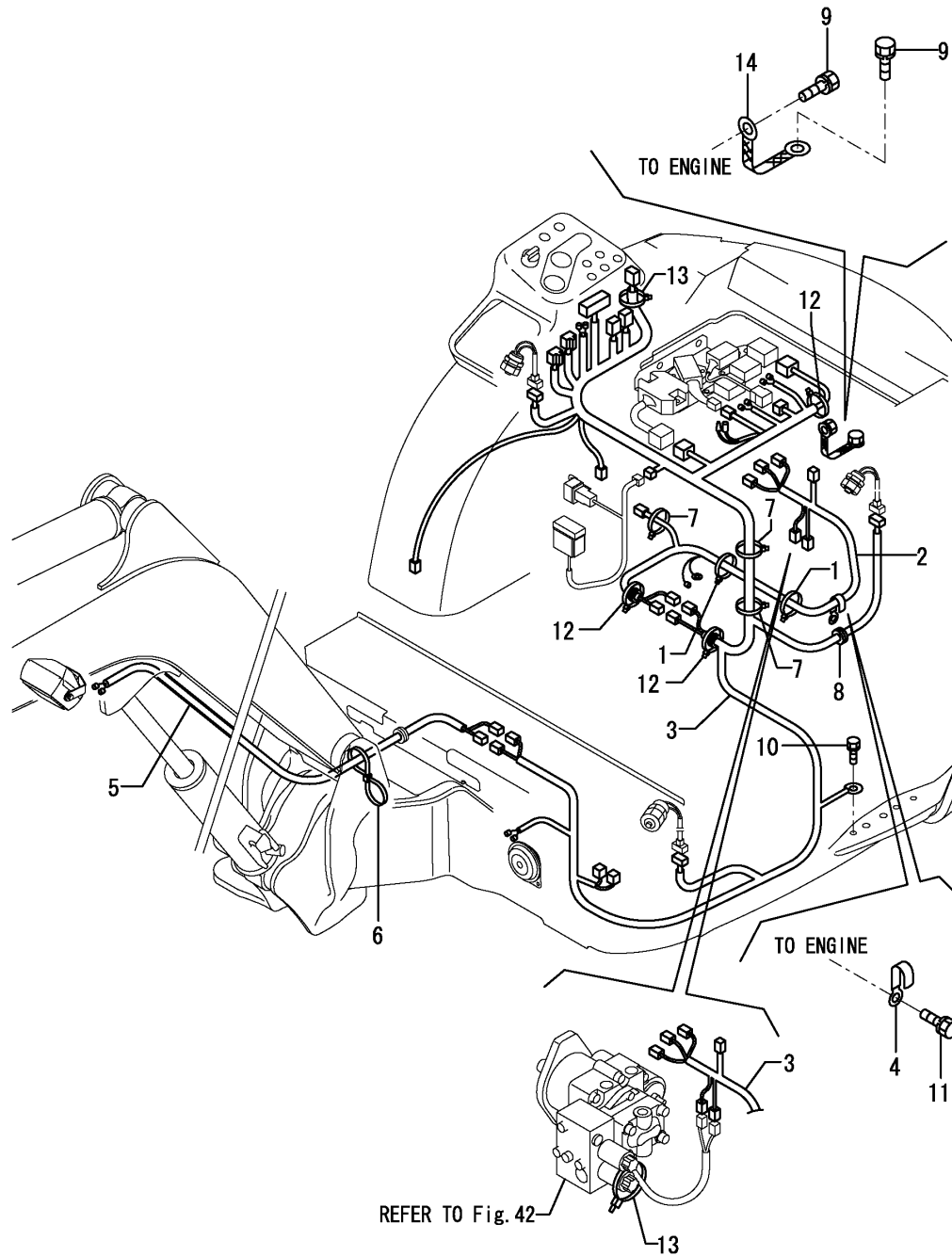


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-16100	CORD,BATTERY PLUS	1	1						
4	1	172175-16110	BATTERY	1	1						
5	1	172448-16130	HARNESS,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)

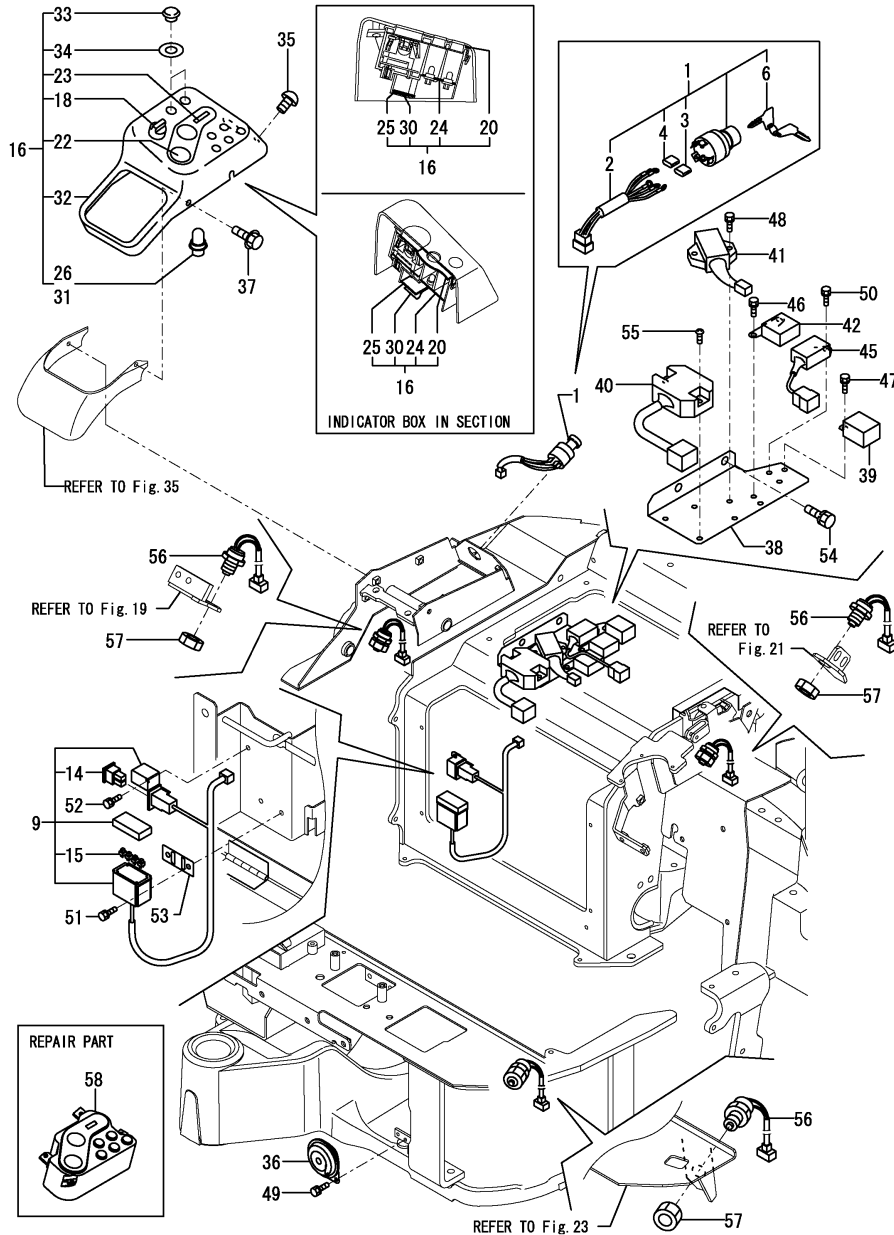


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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	172448-16501	HARNESS A ASSY	1	1						
3	1	172448-16523	HARNESS B ASSY	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	172162-61850	GROMMET	1	1						
9	1	26013-100202	BOLT, M10X 20	2	2						
10	1	26013-100202	BOLT, M10X 20	1	1						
11	1	26013-100202	BOLT, M10X 20	1	1						
12	1	933168-55770	BAND 146	3	3						
13	1	933168-55770	BAND 146	2	2						
14	1	933171-15801	CORD, ENGINE EARTH	1	1						

Fig.13. ELECTRIC PART(EQUIPMENT)



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

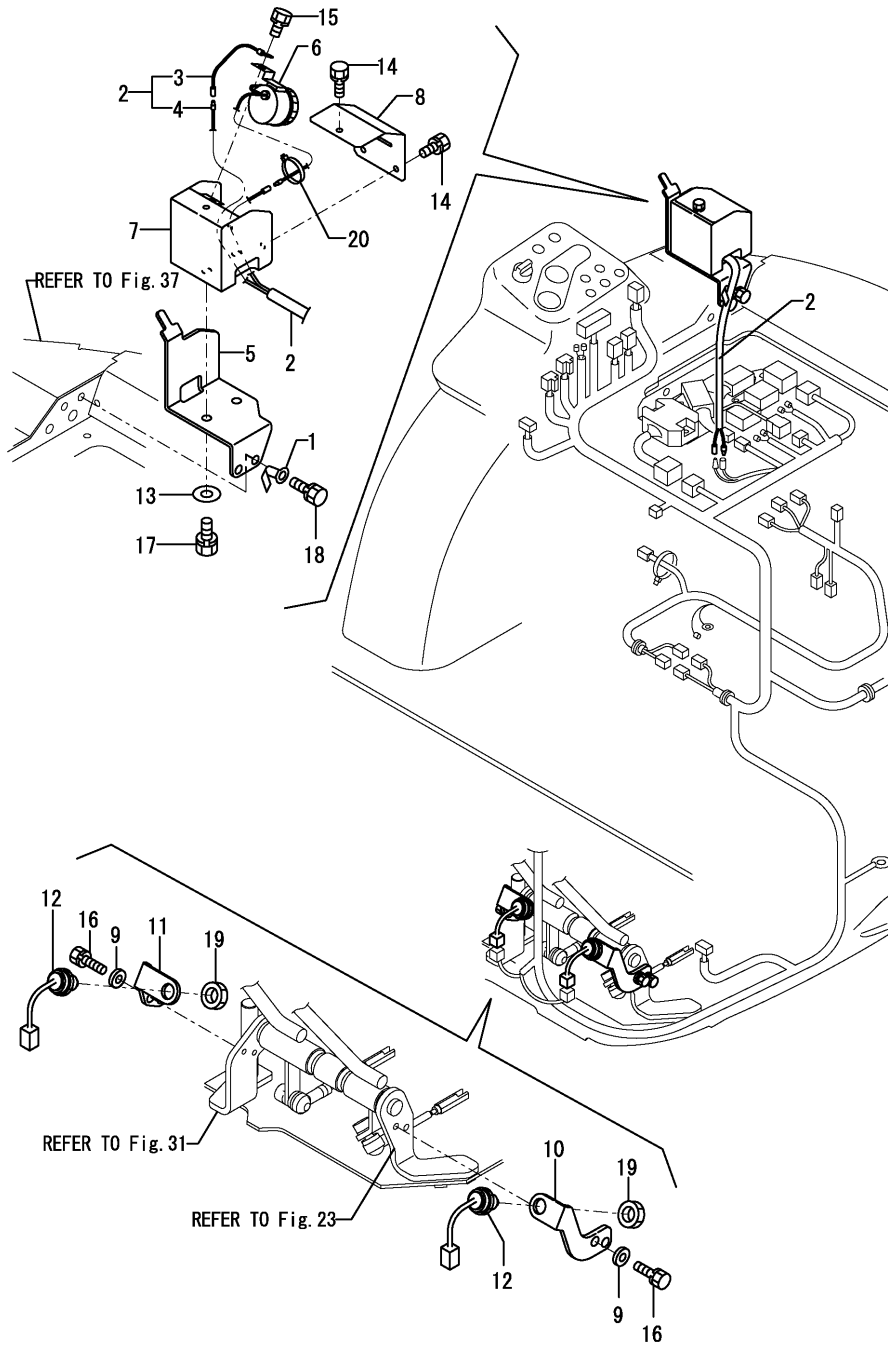
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-17100	SWITCH ASSY, STARTER	1	1						
2	2	172187-17070	CORD ASSY	1	1						
3	2	172187-17080	COVER	3	3						
4	2	172187-17090	COVER	2	2						
6	2	933110-00301	KEY ASSY	1	1						
9	1	172448-17200	FUSE	1	1						
14	2	172447-17150	FUSE 40A	1	1						
15	2	29420-150000	FUSE, B 15A	4	4						
16	1	172458-17500	BOX,INDICATOR(CANOPY	1							
16-1	1	172458-17501	BOX,INDICATOR(CANOPY	1	1					N	1
(A=M/#26043)											
18	2	172187-17280	SWITCH ASSY, LIGHT	1	1						
20	2	172187-17320	PACKING	1	1						
22	2	172187-17341	GAUGE ASSY	1	1						
23	2	172187-17350	METER ASSY, HOUR	1	1						
24	2	172187-17360	PRINT,CIRCUIT	1	1						
25	2	172187-17371	CIRCUIT ASSY	1	1						
26	2	172187-17380	BULB	4	4						
30	2	172187-17470	PLATE	1	1						
31	2	172187-17480	BULB	2	2						
32	2	172458-17510	PANEL	1							
32-1	2	172458-17511	PANEL	1	1						N
(A=M/#26043)											
33	2	172187-17560	CAP	2	2						
34	2	172187-17570	GASKET	2	2						
35	1	172458-46720	BOLT 8X20	1	1						
36	1	194151-57100	HORN	1	1						
37	1	172519-63240	BOLT	3	3						
38	1	172448-64810	BRACKET,ELECTRIC	1	1						
39	1	119247-77100	RELAY, SAFETY	1	1						
40	1	119653-77710	LIMITER, CURRENT	1	1						
41	1	129155-77810	REGISTER	1	1						
42	1	119650-77910	RELAY ASSY, GLOW	2	2						
45	1	129211-77920	TIMER	1	1						
46	1	26013-060162	BOLT, M6X 16	4	4						
47	1	26013-060162	BOLT, M6X 16	1	1						
48	1	26013-060162	BOLT, M6X 16	2	2						
49	1	26013-060162	BOLT, M6X 16	2	2						
50	1	26013-060162	BOLT, M6X 16	1	1						
51	1	26013-060162	BOLT, M6X 16	2	2						
52	1	26013-060162	BOLT, M6X 16	1	1						
53	1	172183-16550	BRACKET,FUSE	1	1						
54	1	26013-100202	BOLT, M10X 20	2	2						
55	1	26022-060252	SCREW, M6X25	2	2						
56	1	194464-52190	SWITCH, SAFETY START	3	3						
57	1	26776-180002	NUT, LOCK M18	3	3						
58	1	172A77-17500	MONITOR ASSY	1	1						W 2
(A=MZZZZZ) (B=MZZZZZ)											

Remarks  
 (1)HOUR METER = ANALOG TYPE.  
 (2)HOUR METER = L.C.D. TYPE.



Fig.14. TRAVEL ALARM



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

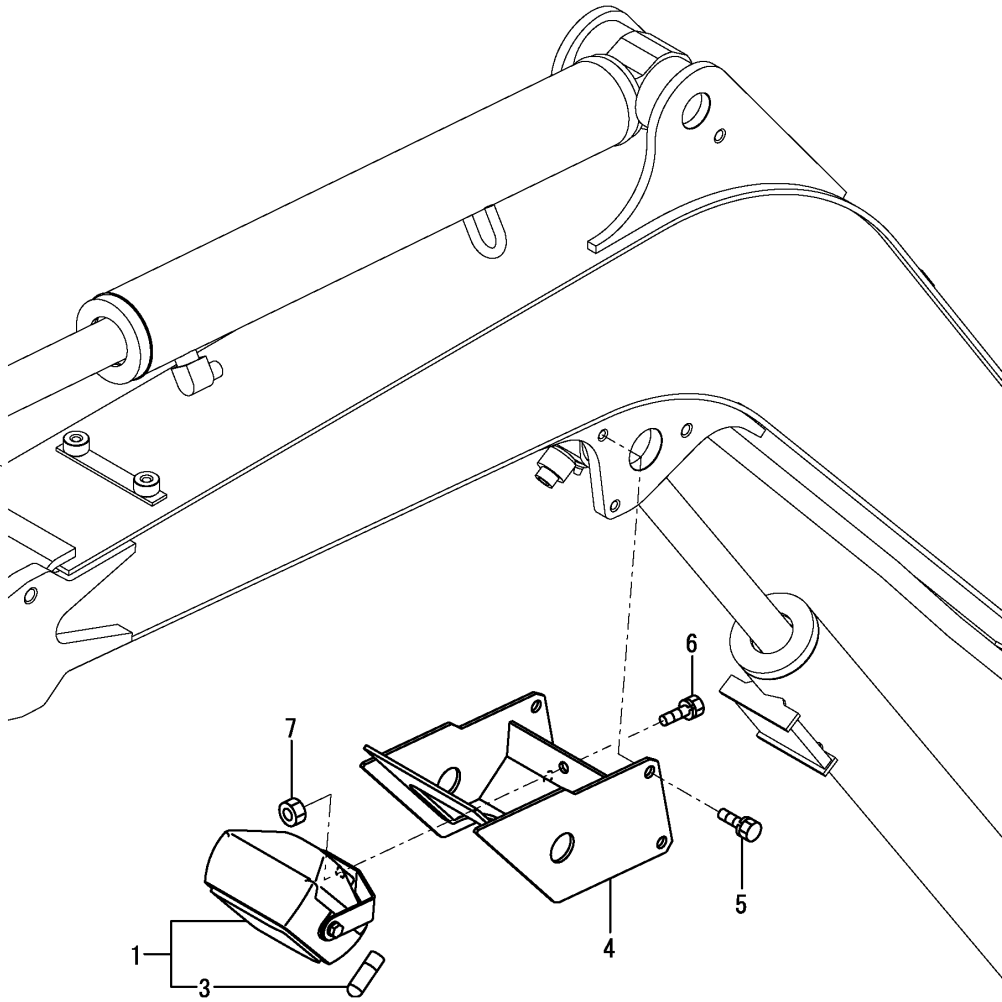
(D)=  
 (E)=  
 (F)=

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.15. WARK LAMP

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

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172156-17401	LAMP, WORK	1	1						
3	2	172156-17420	BULB, 12V 27W	1	1						
4	1	172448-17400-1	COVER, LAMP	1	1						
5	1	26013-080162	BOLT, M8X 16	4	4						
6	1	26013-080162	BOLT, M8X 16	1	1						
7	1	26716-080002	NUT, M8	1	1						

Fig.16. SPROCKET & ROLLER

(A)=VIO15-2(US)  
 (B)=VIO15-2(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						
2	1	26013-100252	BOLT, M10X 25	18	18						
3	1	772448-37300-1	TRACK ROLLER,RUBBER	6	6						
5	2	172448-37310	SHAFT, ROLLER	6	6						
6	2	172173-37320	SEAL, OIL	12							
6-1	2	1E6140-73420	SEAL, OIL QLF255218	12	12						R
(A=M/#26400)											
7	2	22252-000520	RING, 52	12	12						
8	2	24101-062054	BEARING, BALL 6205	12	12						
9	1	26013-120252	BOLT, M12X 25	12	12						
10	1	933152-03700	WASHER, CLUTCH	12	12						
11	1	172448-37500-1	PLATE (GREEN:82)	4	4						
12	1	22217-100000	WASHER, SPRING 10	8	8						
13	1	26450-100352	BOLT, M10X 35	8	8						

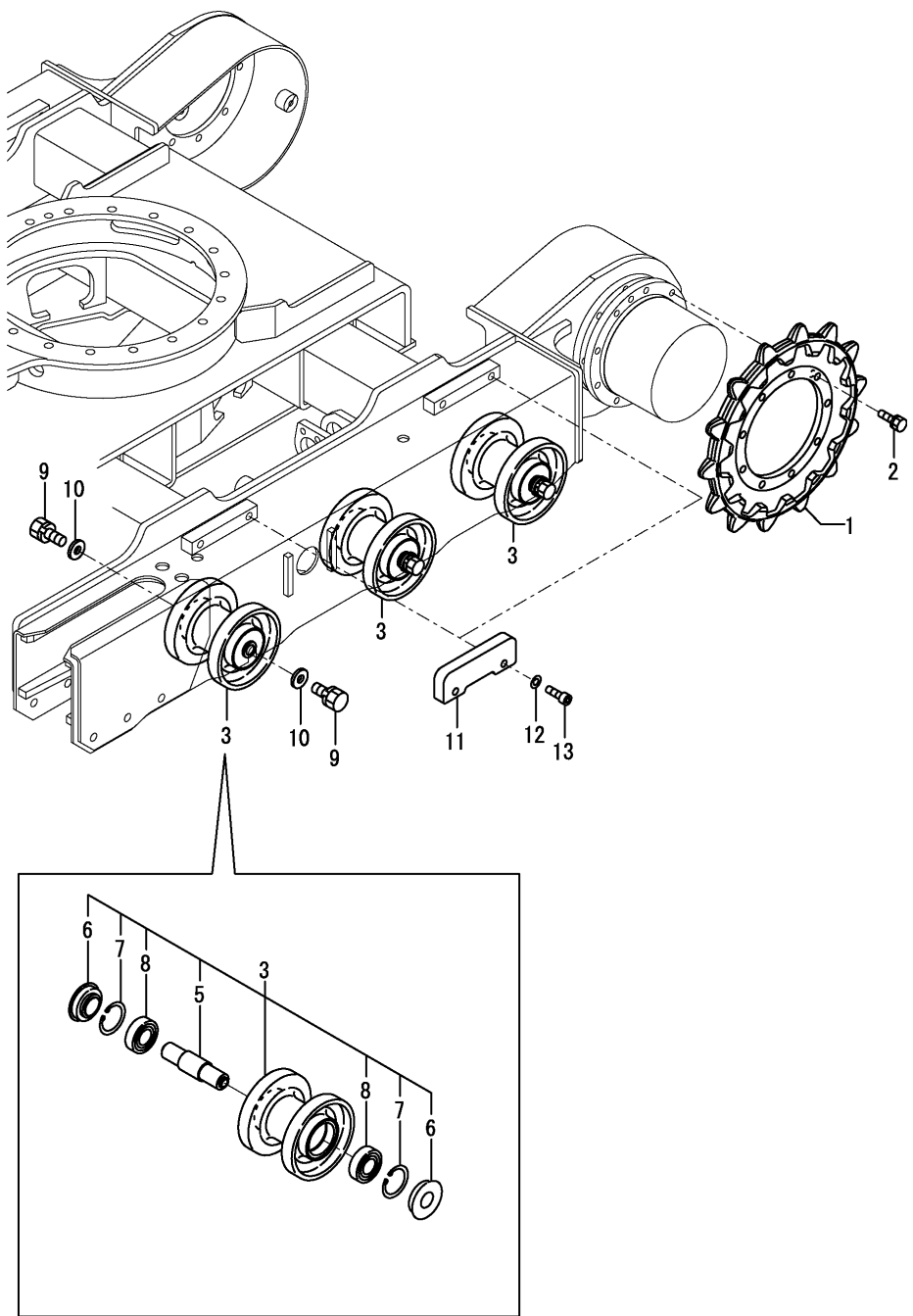
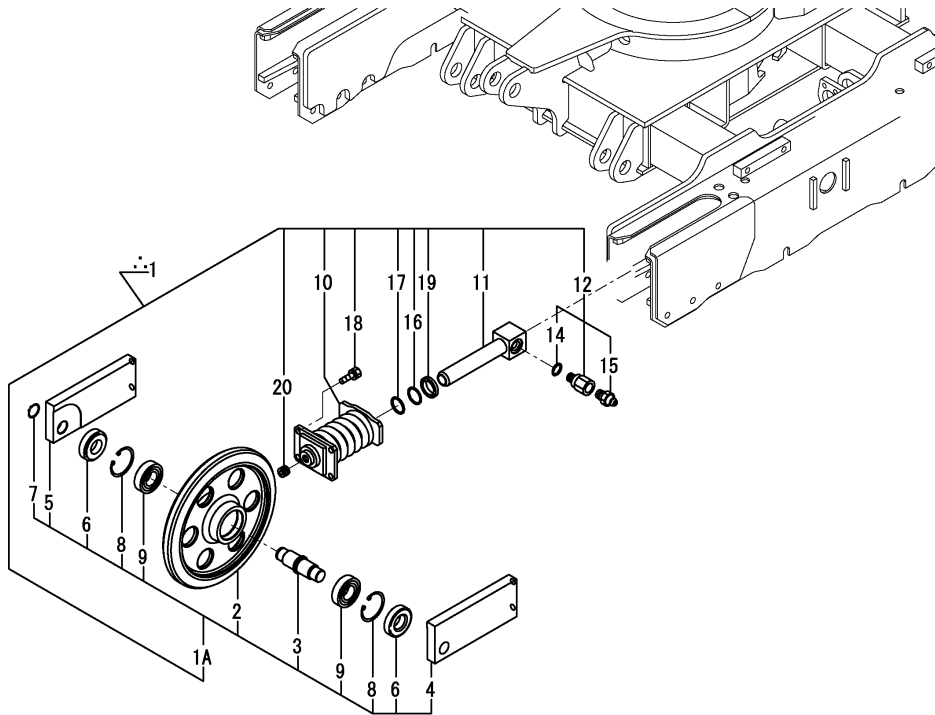


Fig.17. IDLER & ADJUST

P/C NEWS No. Y00S4181-1  
PUBLISHED: 2007/06



(A)=VIO15-2(US)  
(B)=VIO15-2(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						
1A	2	772448-37100-1	IDLER ASSY, RUBBER	2	2						
2	3	172448-37100-1	IDLER ASSY	2	2						
3	3	172448-37110	SHAFT, IDLER	2	2						
4	3	172448-37130	FORK ASSY, IDLER	2	2						
5	3	172448-37140	FORK ASSY, IDLER	2	2						
6	3	1A1060-48300	SEAL, QLN30X62X13.2	4	4						
7	3	22242-000250	RING, 25	2	2						
8	3	22252-000620	RING, 62	4	4						
9	3	24101-062064	BEARING, BALL 6206	4	4						
10	2	172448-37710	SPRING ASSY, ADJUST	2	2						
10-1	2	172448-37711	SPRING ASSY, ADJUST	2	2						N
		(A=XXX) (B=XXX)									
11	2	172137-37801	TUBE ASSY, ADJUST	2							
11-1	2	172448-37800	TUBE ASSY, ADJUST	2	2						N
		(A=M/#25774)									
12	2	172122-37844	VALVE ASSY, NIPPLE	2	2						
14	3	24315-000140	O-RING, 1BP14.0	2	2						
15	3	24761-020000	NIPPLE, GREASE PT1/8	2	2						
16	2	172137-37850	RING, BACK UP	2	2						
17	2	24315-000300	O-RING, 1BP30.0	2	2						
18	2	26013-100302	BOLT, M10X 30	8	8						
19	2	933126-38600	SEAL, DUST	2	2						
20	2	933171-13691	PLUG	2	2						

∴ MARKED PART HAS BEEN CHANGED (ADDED).



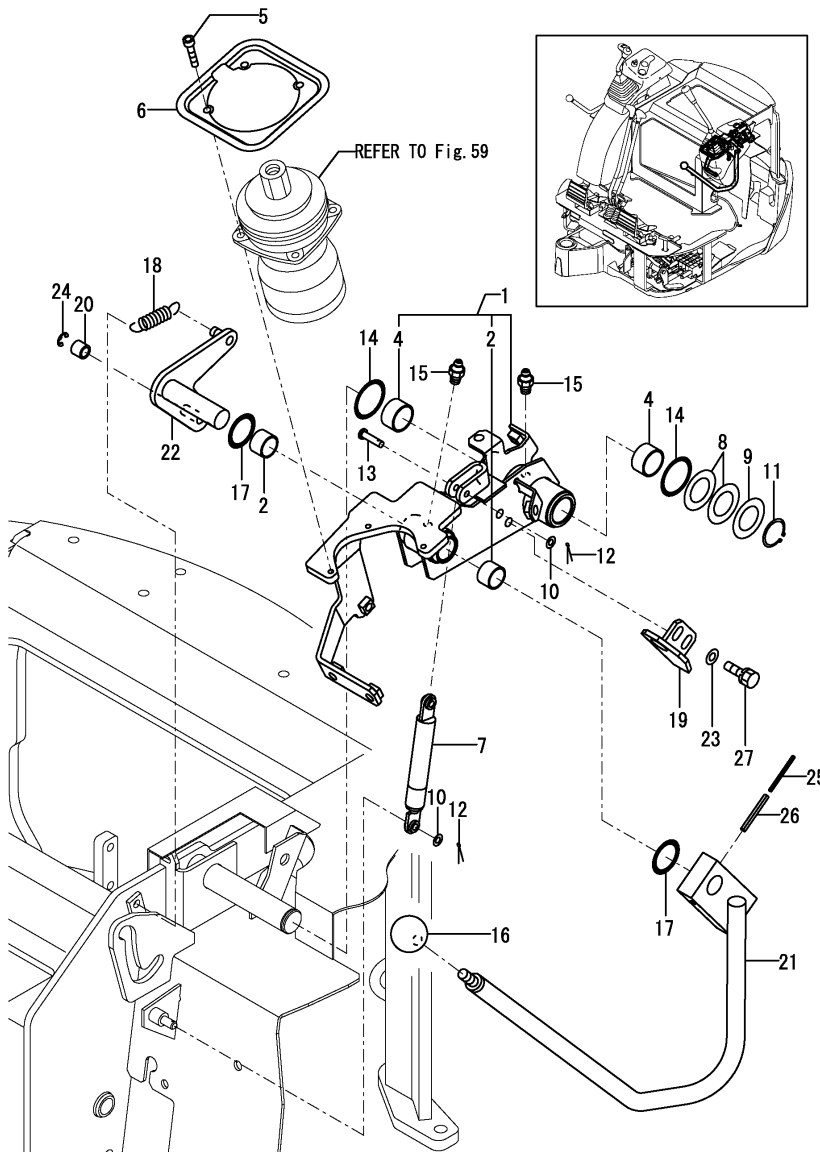




Fig.21. CONTROL EQUIPMENT(LOCK LEVER & STAND: LEFT)(A-SPEC.)

(A)=VIO15-2(US)  
 (B)=VIO15-2(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	172448-47620	LEVER L, LOCK(GRAY:72)	1							
21-1	1	172448-47621	LEVER L, LOCK(GRAY:72)	1	1						N
(A=M/#25741)											
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						



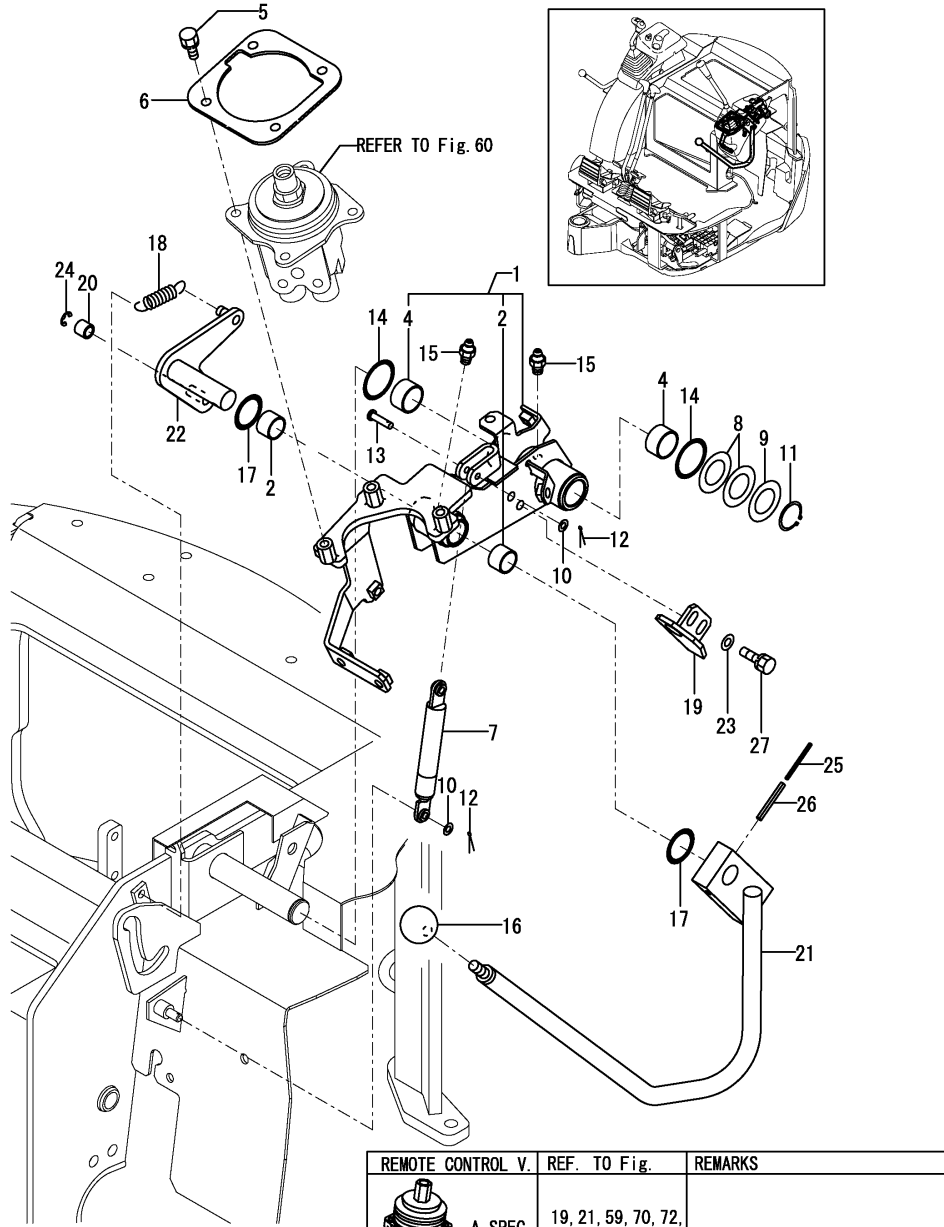


REMOTE CONTROL V.	REF. TO Fig.	REMARKS
 A SPEC.	19, 21, 59, 70, 72,	ASCERTAIN THE SHAPE OF REMOTE CONTROL VALVE, REFER TO APPLICABLE FIGURE.
 B SPEC.	20, 22, 60, 71, 73,	



Fig.22. CONTROL EQUIPMENT(LOCK LEVER & STAND: LEFT)(B-SPEC.)



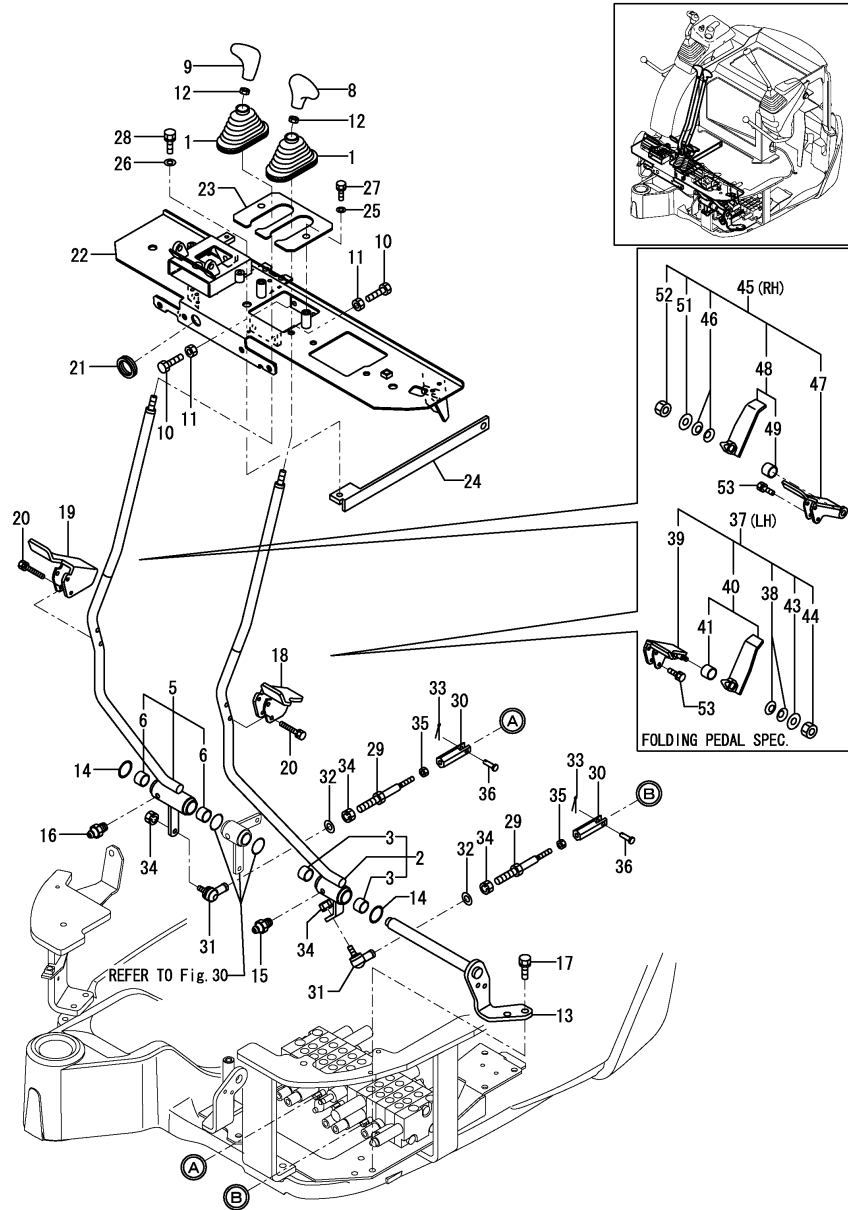
REMOTE CONTROL V.	REF. TO Fig.	REMARKS
 A SPEC.	19, 21, 59, 70, 72,	ASCERTAIN THE SHAPE OF REMOTE CONTROL VALVE, REFER TO APPLICABLE FIGURE.
 B SPEC.	20, 22, 60, 71, 73,	

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-46800	STAND ASSY, LEVER	1	1						
2	2	172141-41370	BUSH 2015	2	2						
4	2	24550-025150	BUSH, 25X15	2	2						
5	1	26013-080162	BOLT, M8X 16	3	3						
6	1	172165-47711	PLATE	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	172448-47620	LEVER L, LOCK(GRAY:72	1	1						
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.23. CONTROL EQUIPMENT(TRACK LEVER & LINK STAND)



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

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

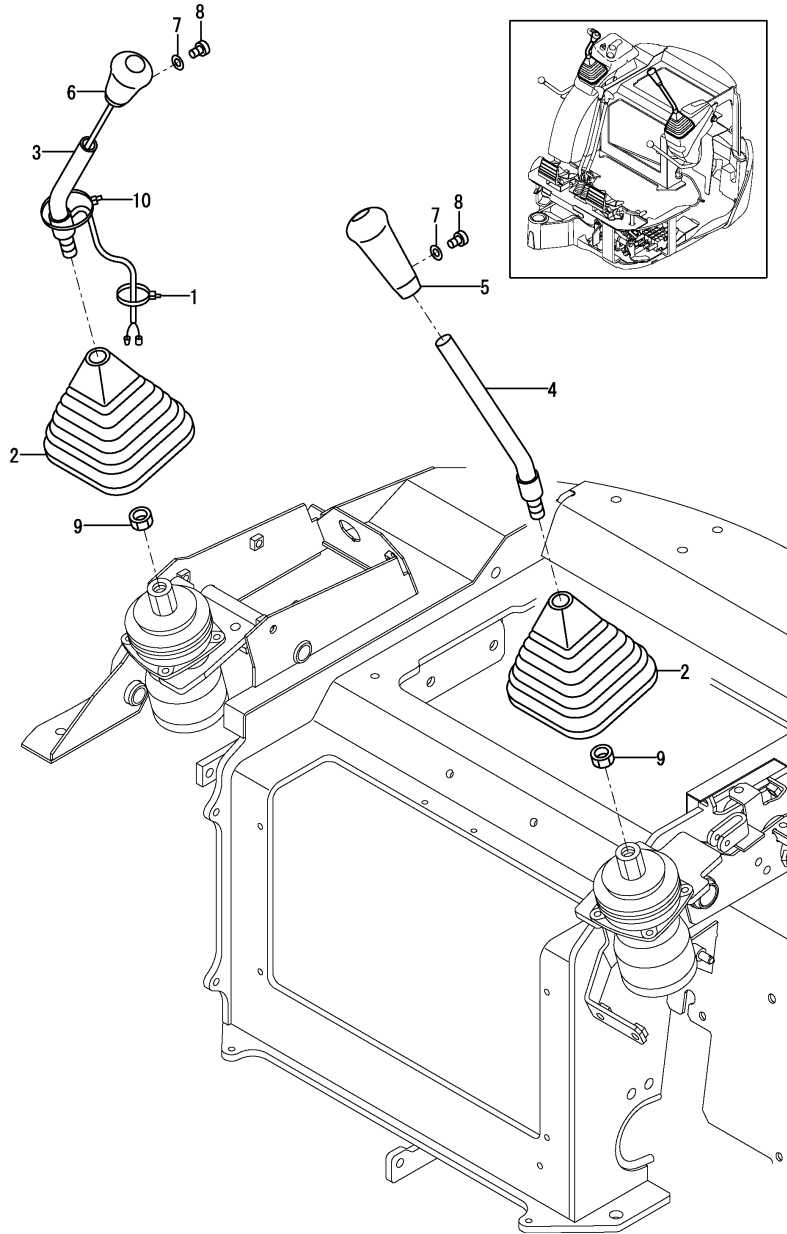
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOTS	2	2						
2	1	172448-45101	LEVER L,TRACK(GRAY72)	1	1						
3	2	172141-41370	BUSH 2015	2	2						
5	1	172448-45142	LEVER R,TRACK (72)	1	1						
6	2	172141-41370	BUSH 2015	2	2						
8	1	172164-45951	GRIP, DRIVE	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	172472-45600	PEDAL L,TRACK F (72)	1	1						1
19	1	172472-45620	PEDAL R,TRACK F (72)	1	1						1
20	1	26013-060352	BOLT, M6X 35	4	4						1
21	1	172187-16560	GROMMET	1	1						
22	1	172448-45401	STAND, PEDAL	1	1						
23	1	172448-45510	PLATE,TRACK(BLACK:12	1	1						
24	1	172448-45520	RIB,STEP	1	1						
25	1	22137-080000	WASHER, 8	2	2						
26	1	22137-100000	WASHER, 10	2	2						
27	1	26013-080162	BOLT, M8X 16	2	2						
28	1	26013-100202	BOLT, M10X 20	2	2						
29	1	172448-45260	ROD 90	2	2						
30	1	172448-45660	ROD,SPOOL	2	2						
31	1	172122-46590	ELBOW	2	2						
32	1	22117-080000	WASHER, 8	2	2						
33	1	22417-160160	PIN, COTTER 1.6X16	2	2						
34	1	26051-080002	NUT, M8	4	4						
35	1	26716-050002	NUT, M5	2	2						
36	1	933110-54100	PIN 4.75X14	2	2						
37	1	172472-45601	PEDAL L, TRACK (72)	1	1						W 2
(A=M/#26346)											
38	2	172068-28490	SPRING	2	2						
39	2	172472-45720	PEDAL FL ASSY, TRACK	1	1						
40	2	172472-45810	PEDAL RL,TRACK (72)	1	1						
41	3	172110-45050	BUSH 12X12	1	1						
43	2	22137-080000	WASHER, 8	1	1						
44	2	26347-080002	NUT, M8	1	1						
45	1	172472-45621	PEDAL R, TRACK (72)	1	1						W 2
(A=M/#26346)											
46	2	172068-28490	SPRING	2	2						
47	2	172472-45730	PEDAL FR ASSY, TRACK	1	1						
48	2	172472-45850	PEDAL RR,TRACK (72)	1	1						
49	3	172110-45050	BUSH 12X12	1	1						
51	2	22137-080000	WASHER, 8	1	1						
52	2	26347-080002	NUT, M8	1	1						
53	1	26013-060302	BOLT, M6X 30	4	4						

Remarks  
(1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.37,45,53.  
(2)FOLDING PEDAL SPEC.

Fig.24. CONTROL EQUIPMENT(OPERATION LEVER)

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

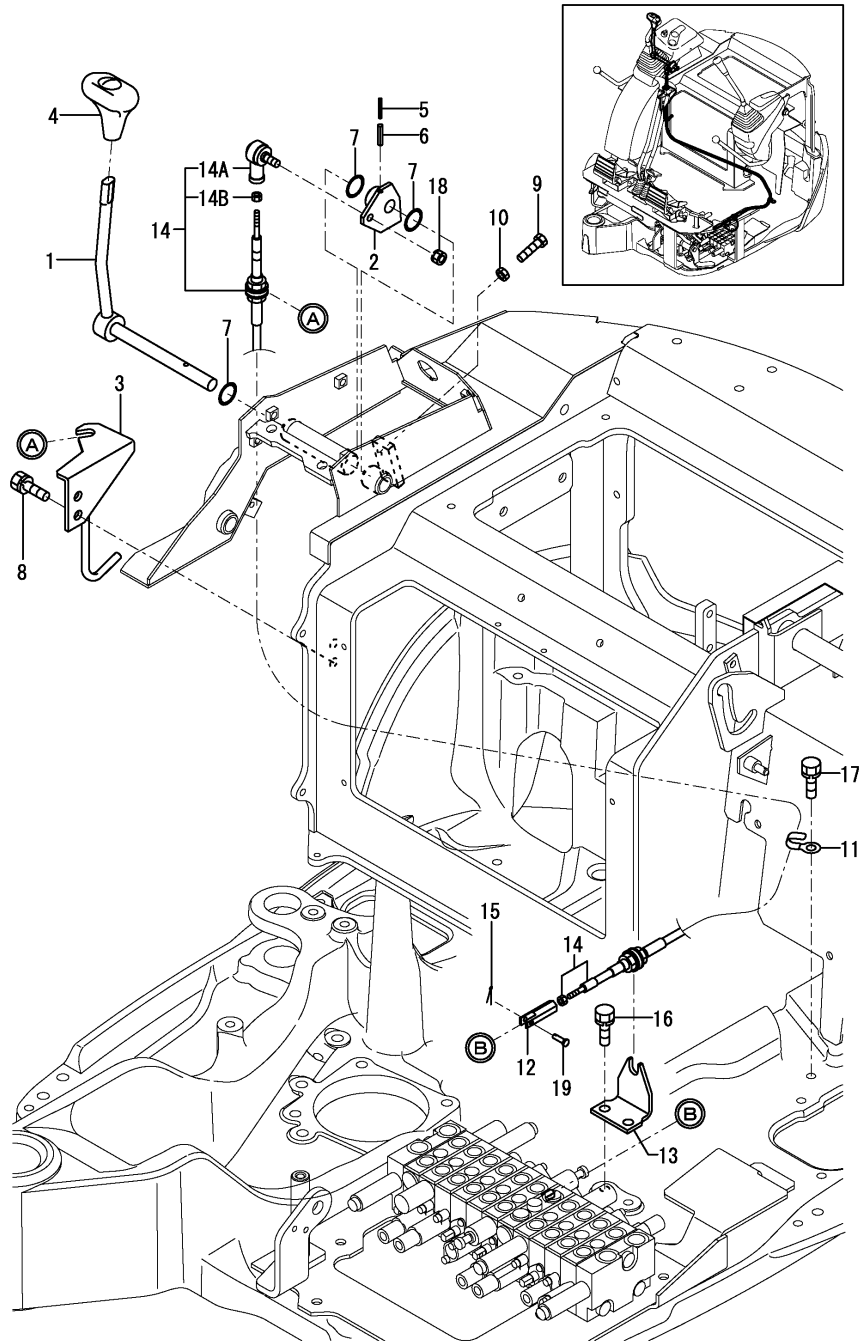
(D)=  
 (E)=  
 (F)=



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						
4	1	172448-45030	LEVER L (GRAY:72)	1	1						
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.25. CONTROL EQUIPMENT(BLADE LEVER)

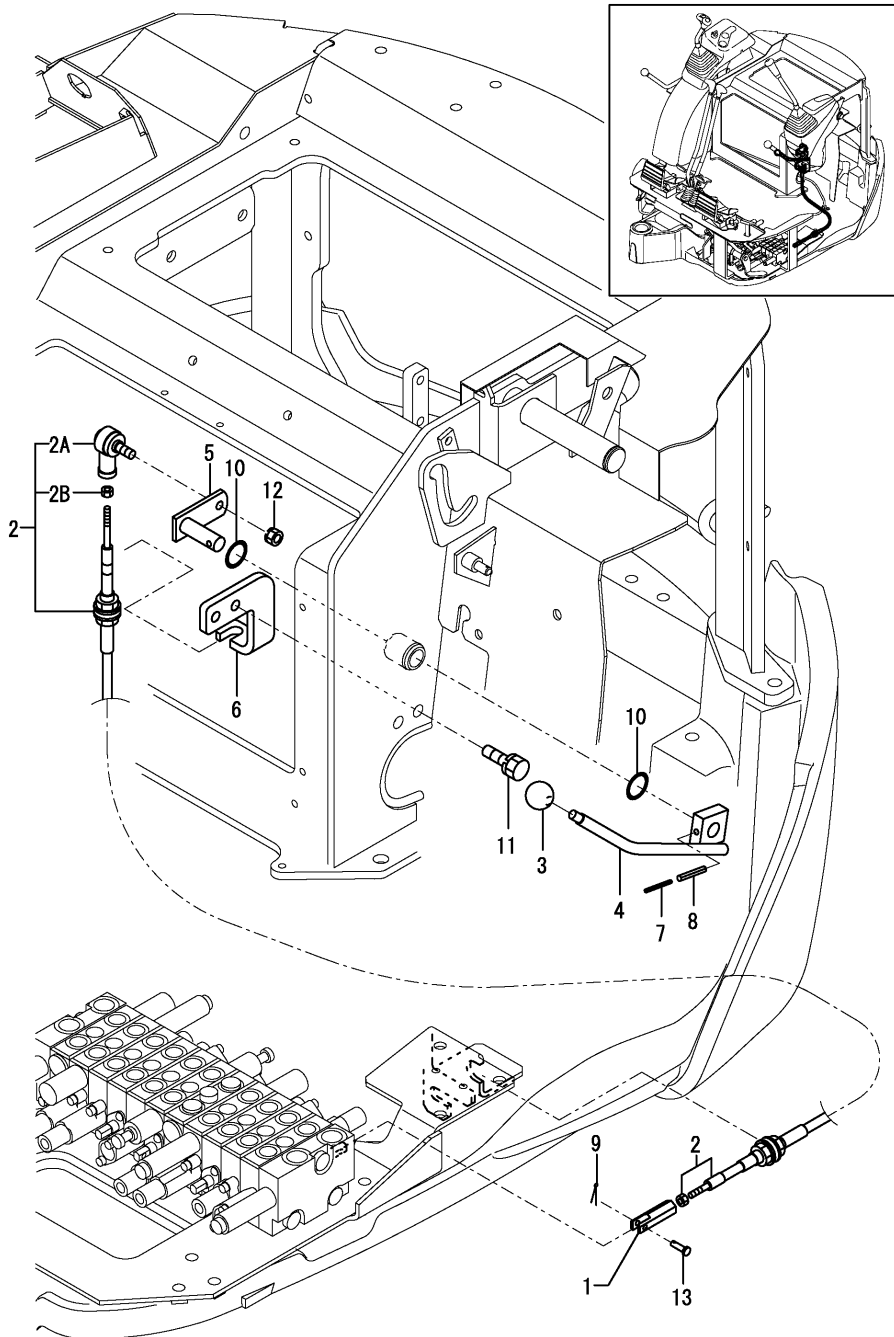


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
2	1	172448-45740	PLATE, BLADE	1	1						
3	1	172448-45770	BRACKET, BLADE	1	1						
3-1	1	172448-45771 (A=XXX) (B=XXX)	BRACKET, BLADE	1	1						N
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						
14A	2	172458-45810 (A=M/#20501)	JOINT, BALL	1	1						W
14B	2	26757-050002 (A=M/#20501)	NUT, LOCK M5	1	1						W
15	1	22417-160160	PIN, COTTER 1.6X16	1	1						
16	1	26013-100202	BOLT, M10X 20	2	2						
17	1	26013-100202	BOLT, M10X 20	1	1						
18	1	26051-080002	NUT, M8	1	1						
19	1	933110-54100	PIN 4.75X14	1	1						

Fig.26. CONTROL EQUIPMENT(VARIABLE LEG LEVER)

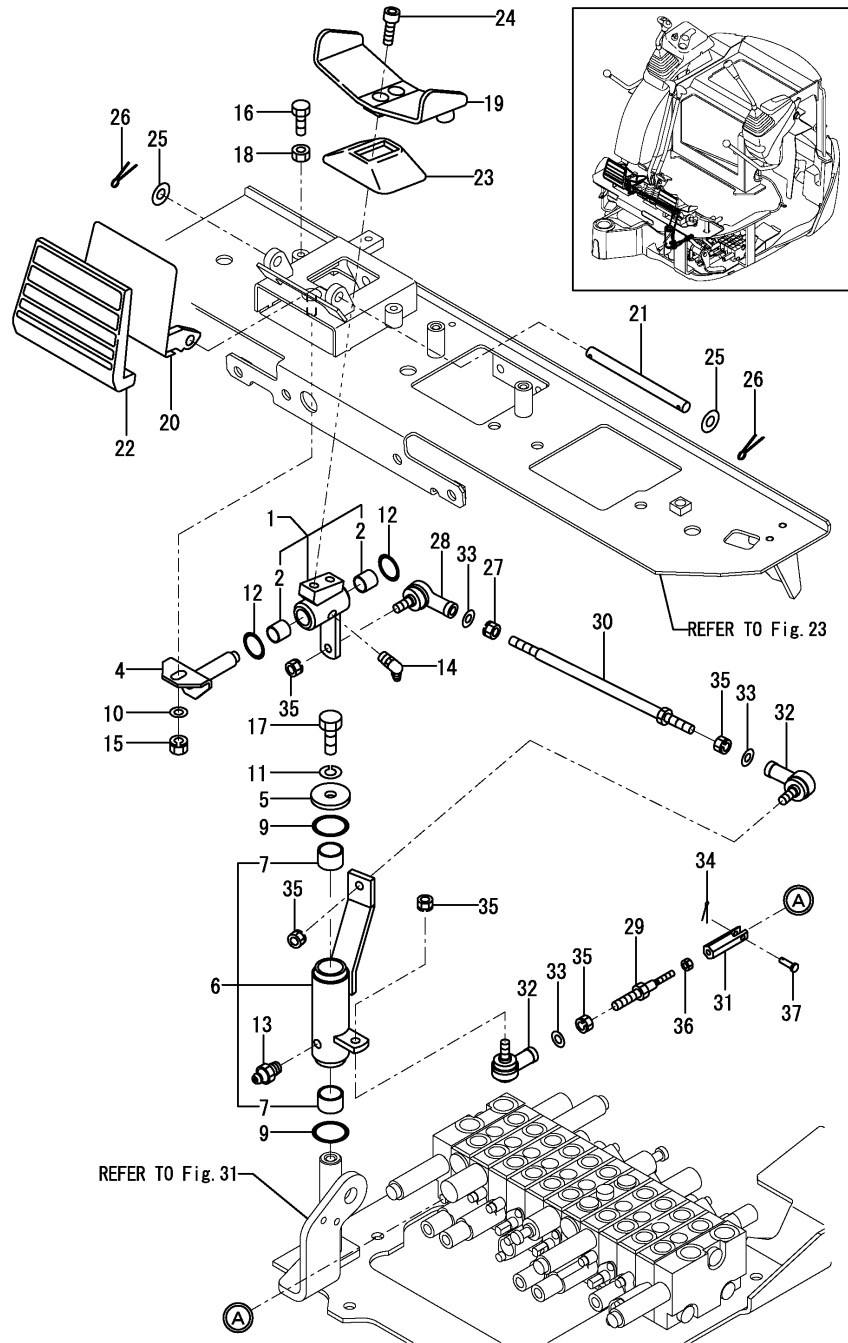


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
2A	2	172458-45810	JOINT, BALL	1	1						W
2B	2	26757-050002 (A=M/#20501)	NUT, LOCK M5	1	1						W
3	1	172446-45950	KNOB, LEVER	1	1						
4	1	172448-47801	LEVER,W/S (GRAY:72)	1	1						
5	1	172448-47830	LINK,W/S	1	1						
6	1	172448-47860	BRACKET,W/S	1	1						
7	1	22351-030032	PIN, SPRING 3.0X32	1	1						
8	1	22351-050032	PIN, SPRING 5.0X32	1	1						
9	1	22417-160160	PIN, COTTER 1.6X16	1	1						
10	1	24311-000210	O-RING, 1AP21.0	2	2						
11	1	26013-100202	BOLT, M10X 20	2	2						
12	1	26051-080002	NUT, M8	1	1						
13	1	933110-54100	PIN 4.75X14	1	1						

Fig.27. CONTROL EQUIPMENT(SWING PEDAL)

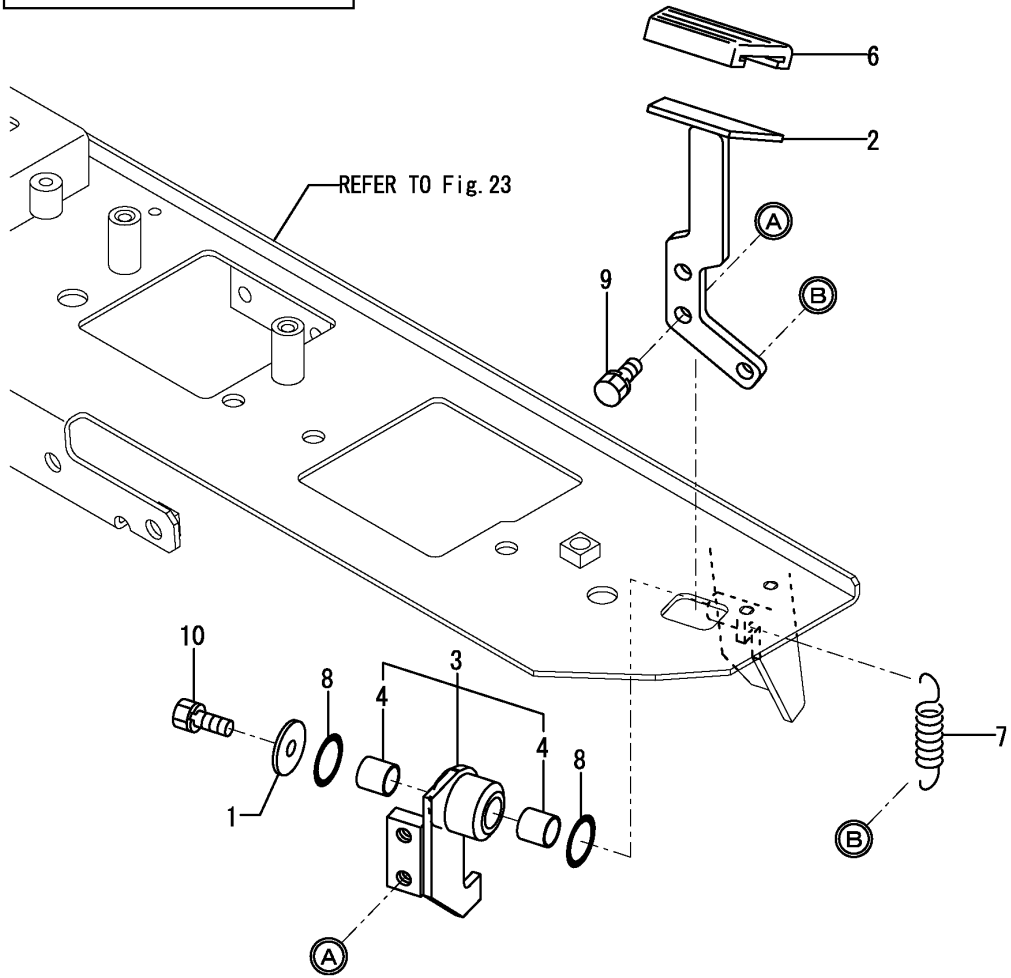
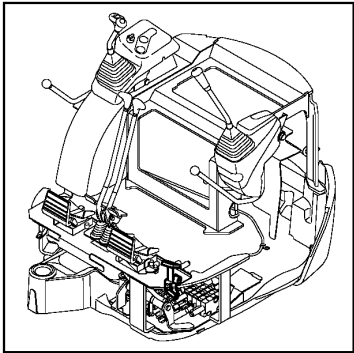


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
20	1	172458-45540	COVER, PEDAL	1	1						
21	1	172187-45650	SHAFT, COVER	1							
21-1	1	172187-45651	SHAFT	1	1						R
(A=M/#21064)											
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	2							
25-1	1	22137-100000	WASHER, 10	1	1						K
(A=M/#21064)											
26	1	22417-250200	PIN, COTTER 2.5X20	2							
26-1	1	22417-250200	PIN, COTTER 2.5X20	1	1						K
(A=M/#21064)											
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.28. CONTROL EQUIPMENT(LOW-HIGH PEDAL)

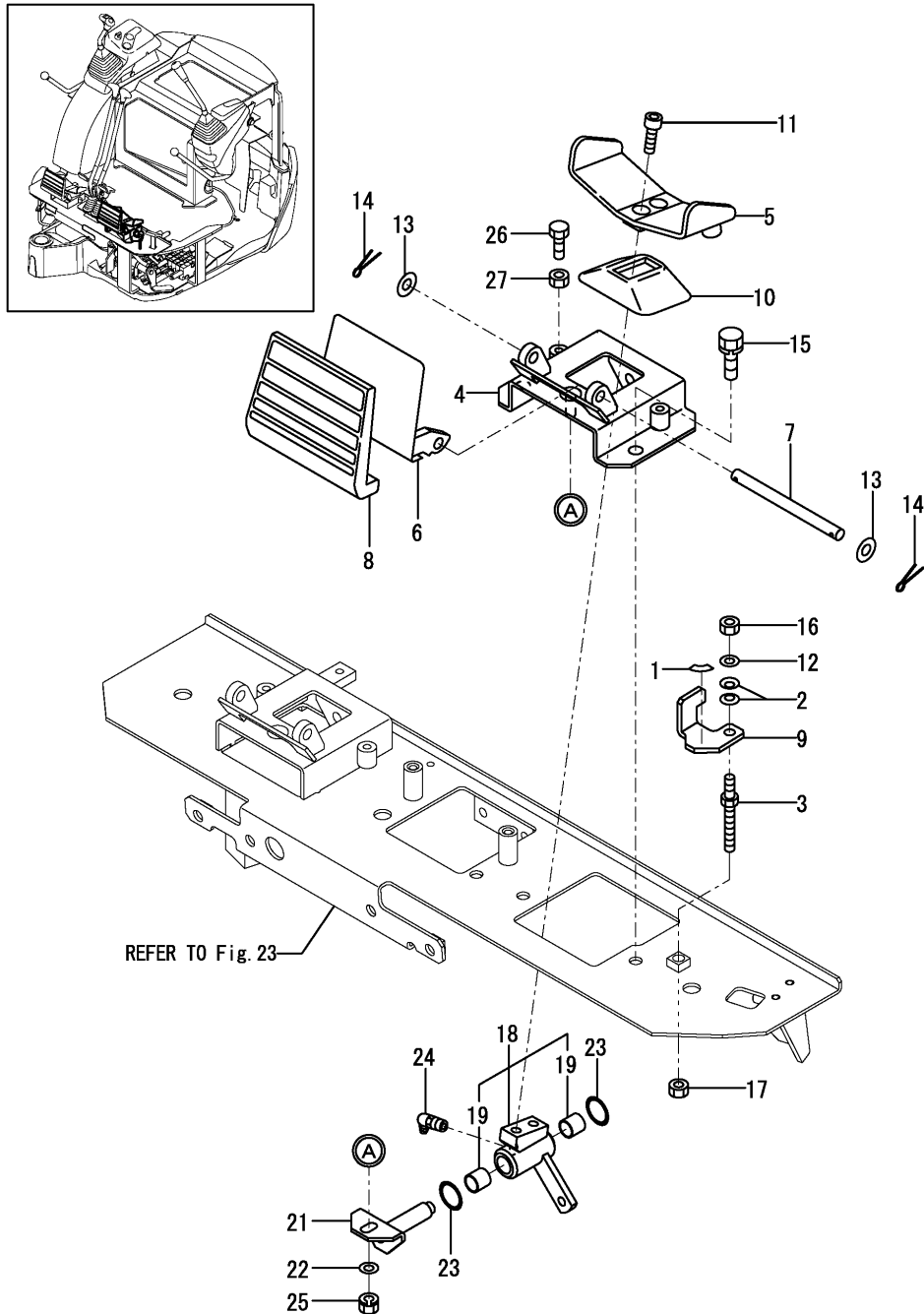


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
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.29. CONTROL EQUIPMENT(P.T.O. PEDAL)



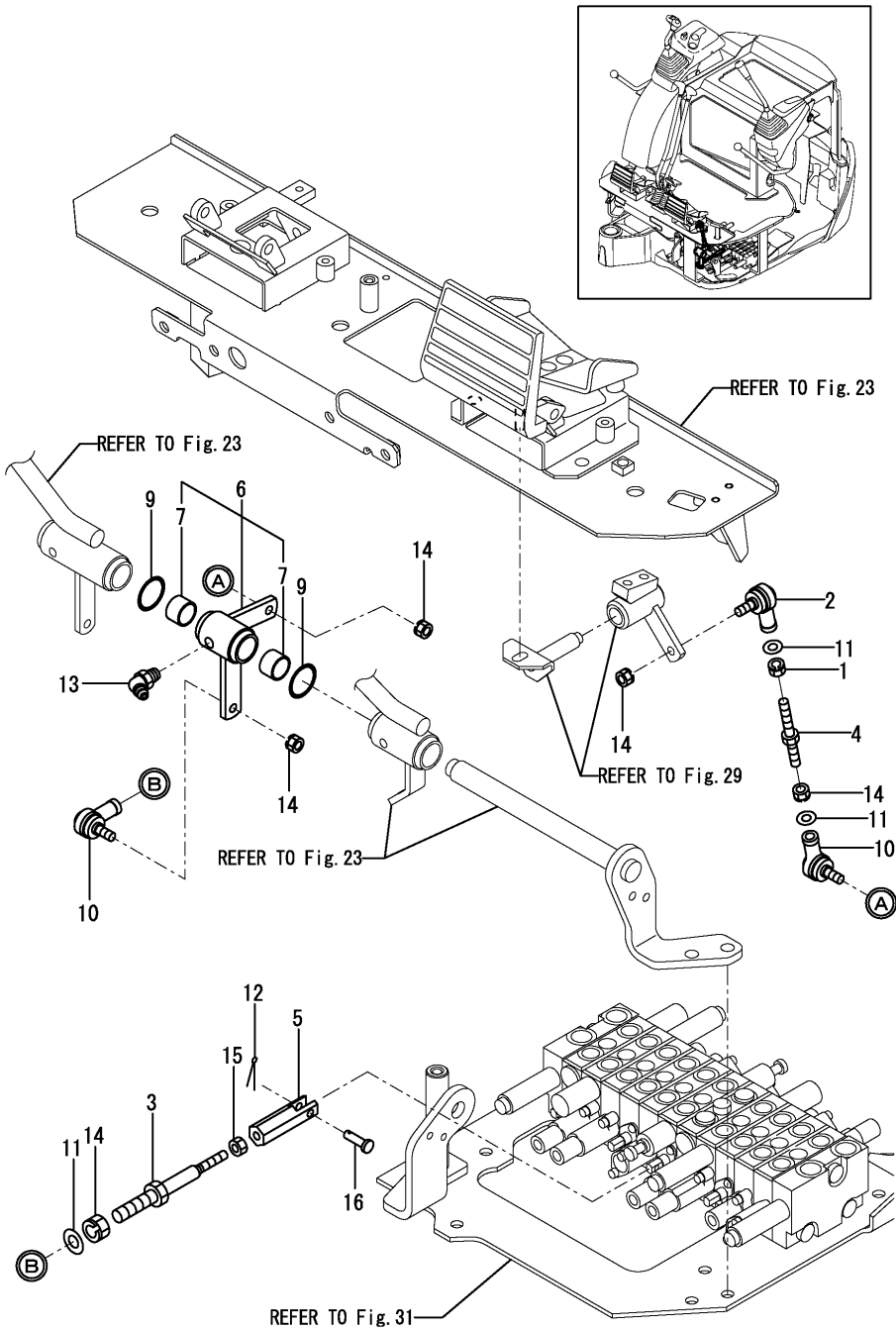
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
5	1	172458-45521	PEDAL, SWING(GRAY:72)	1	1						
6	1	172458-45540	COVER, PEDAL	1	1						
7	1	172187-45650	SHAFT, COVER	1							
7-1	1	172187-45651	SHAFT	1	1						R
(A=M/#21064)											
8	1	172187-45760	COVER PAD	1	1						
9	1	172448-45800	PLATE, LOCK(PTO (11)	1	1						
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	2							
13-1	1	22137-100000	WASHER, 10	1	1						K
(A=M/#21064)											
14	1	22417-250200	PIN, COTTER 2.5X20	2							
14-1	1	22417-250200	PIN, COTTER 2.5X20	1	1						K
(A=M/#21064)											
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.30. CONTROL EQUIPMENT(P.T.O. LINK)



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

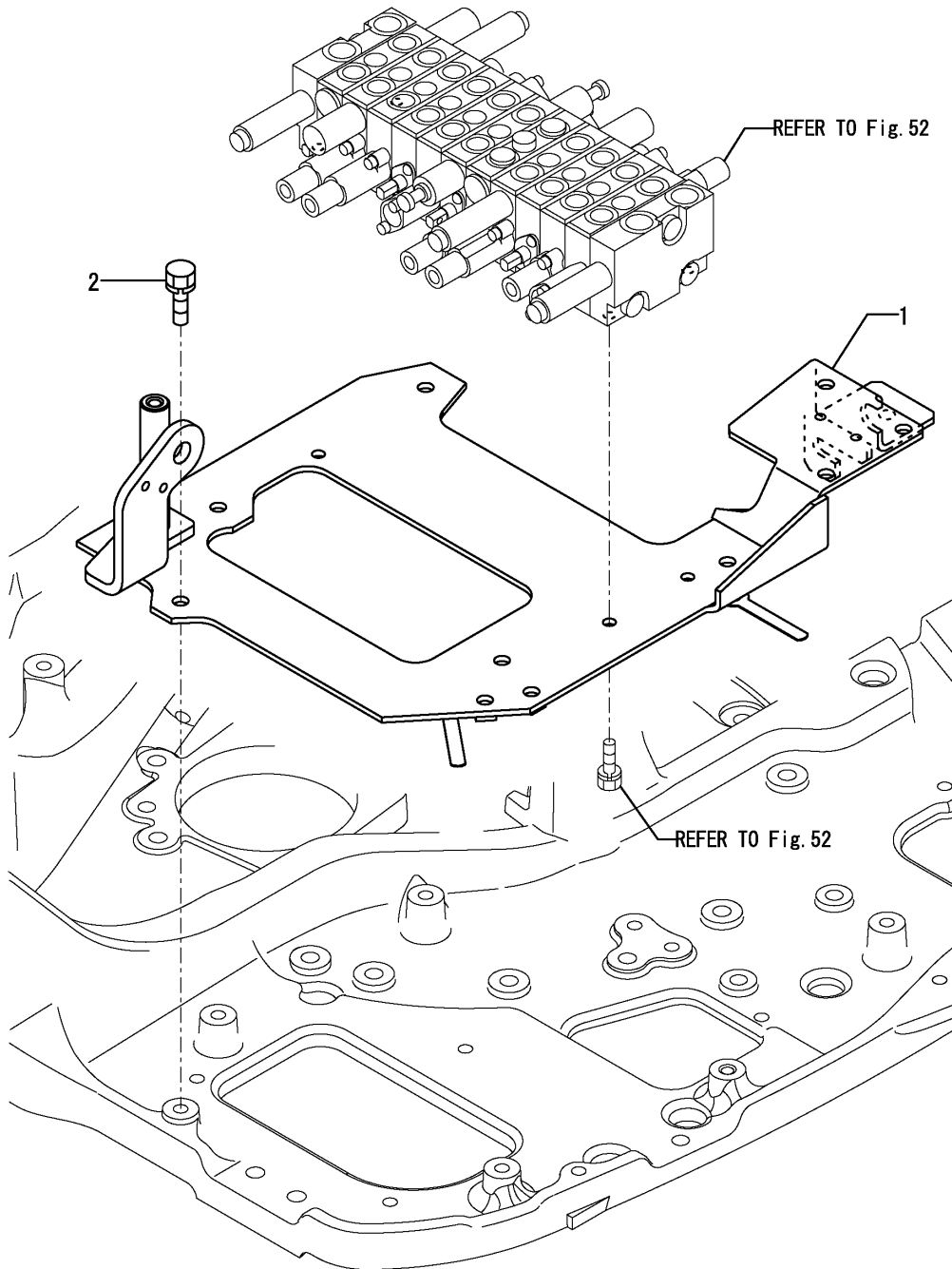
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						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. VALVE PLATE

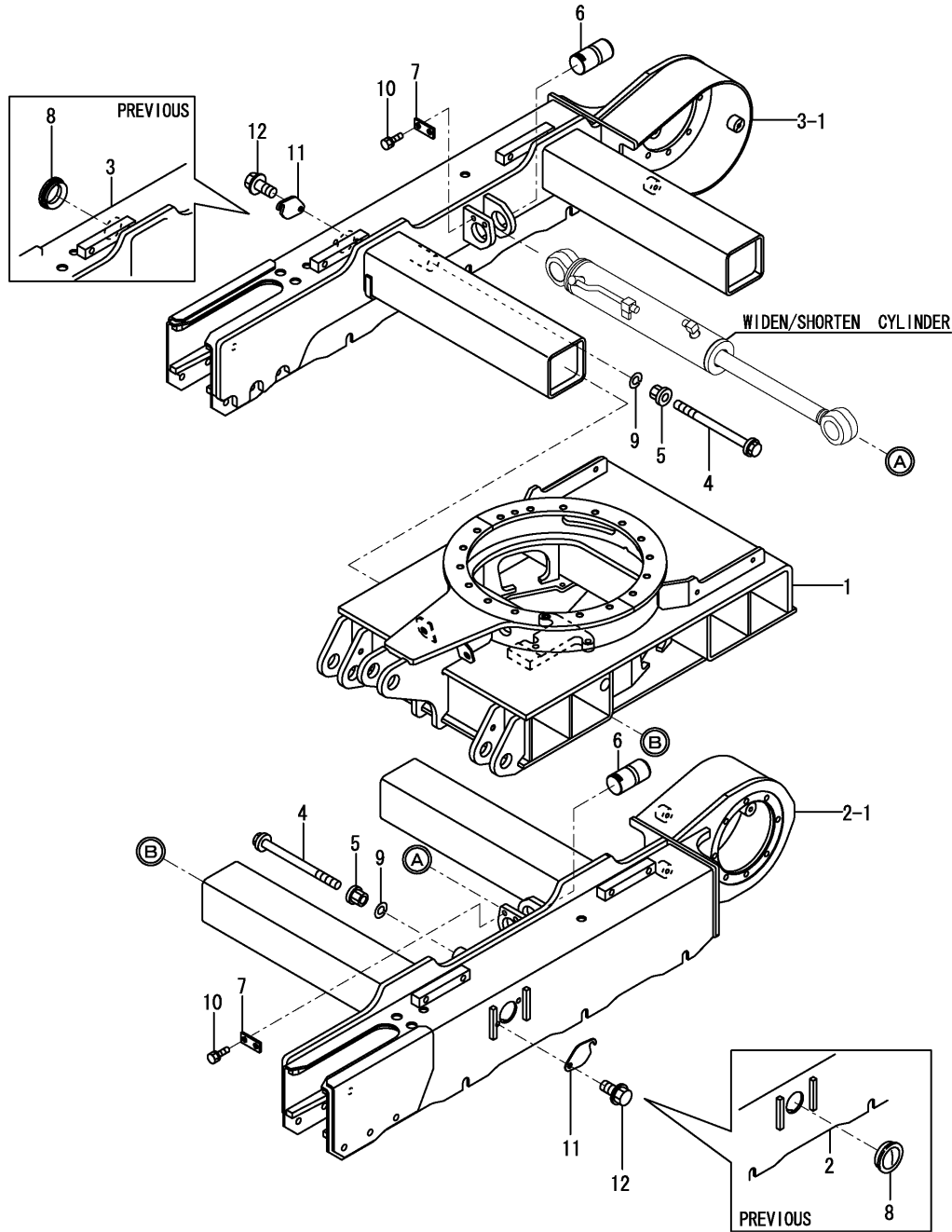
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-45960	PLATE, VALVE	1	1						
2	1	26013-100252	BOLT, M10X 25	6	6						

Fig.32. TRACK FRAME



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

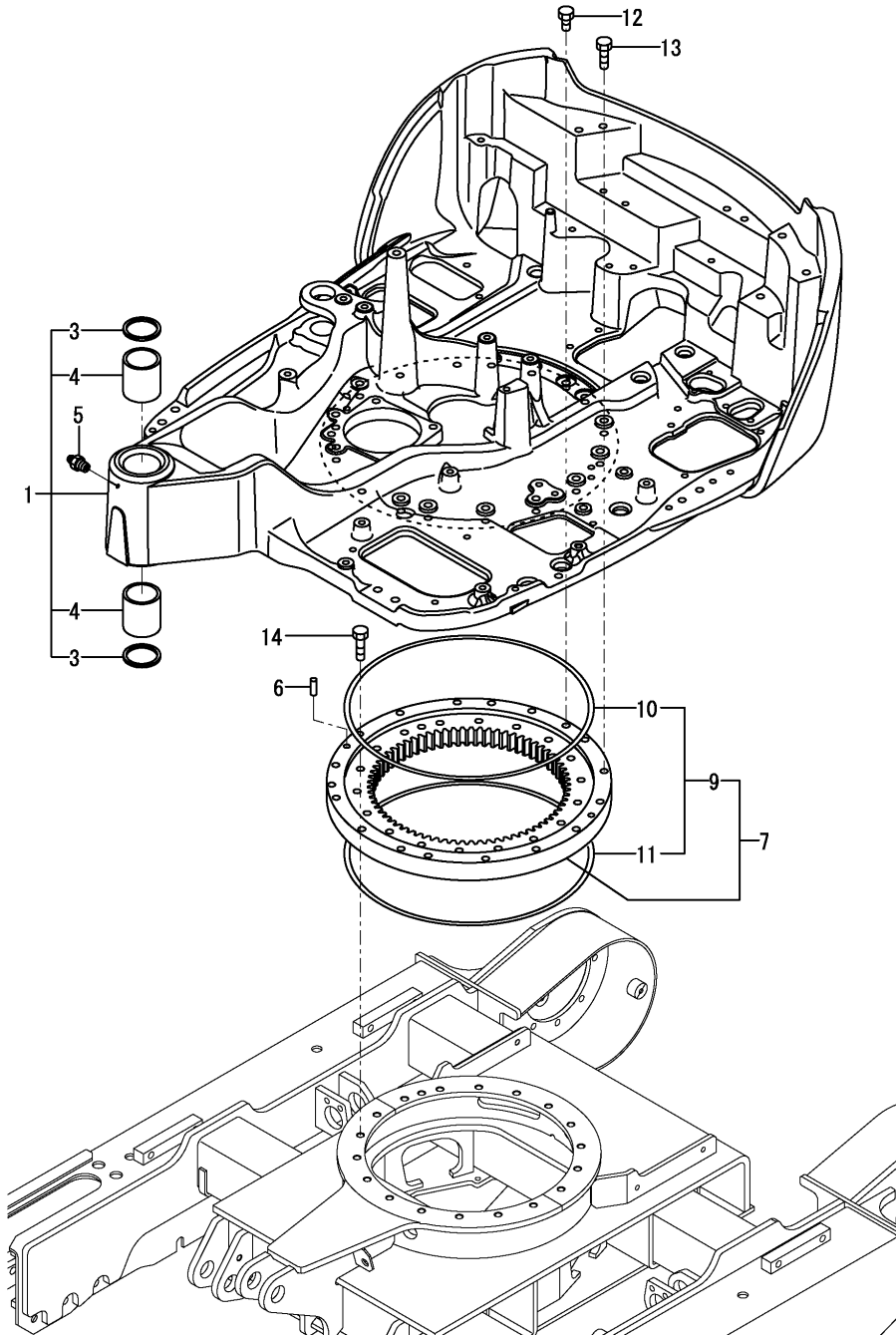
(D)=  
 (E)=  
 (F)=

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						
2	1	172448-50400-1	FRAME,CRAWLER L (82)	1							
2-1	1	172448-50401	FRAME,CRAWLER L (88)	1	1						S
(A=M/#21434)											
3	1	172448-50410-1	FRAME,CRAWLER R (82)	1							
3-1	1	172448-50411	FRAME,CRAWLER R (88)	1	1						S
(A=M/#21434)											
4	1	172448-50700	BOLT,STOPPER	2	2						
5	1	172448-50720	NUT ASSY, STOPPER	2	2						
6	1	172448-50760	PIN 40-70	2	2						
7	1	172448-50770-1	PLATE (GREEN:82)	2	2						
8	1	172141-50890	GROMMET	2							Z
(A=M/#21434)											
9	1	22212-160000	SPRING WAHER 16	2	2						
10	1	26013-100162	BOLT, M10X 16	4	4						
11	1	172458-50480	COVER, FRAME	2	2						W
(A=M/#21434)											
12	1	26106-100122	BOLT, M10X 12 PLATED	4	4						W
(A=M/#21434)											

Fig.33. TURNING FRAME & BEARING

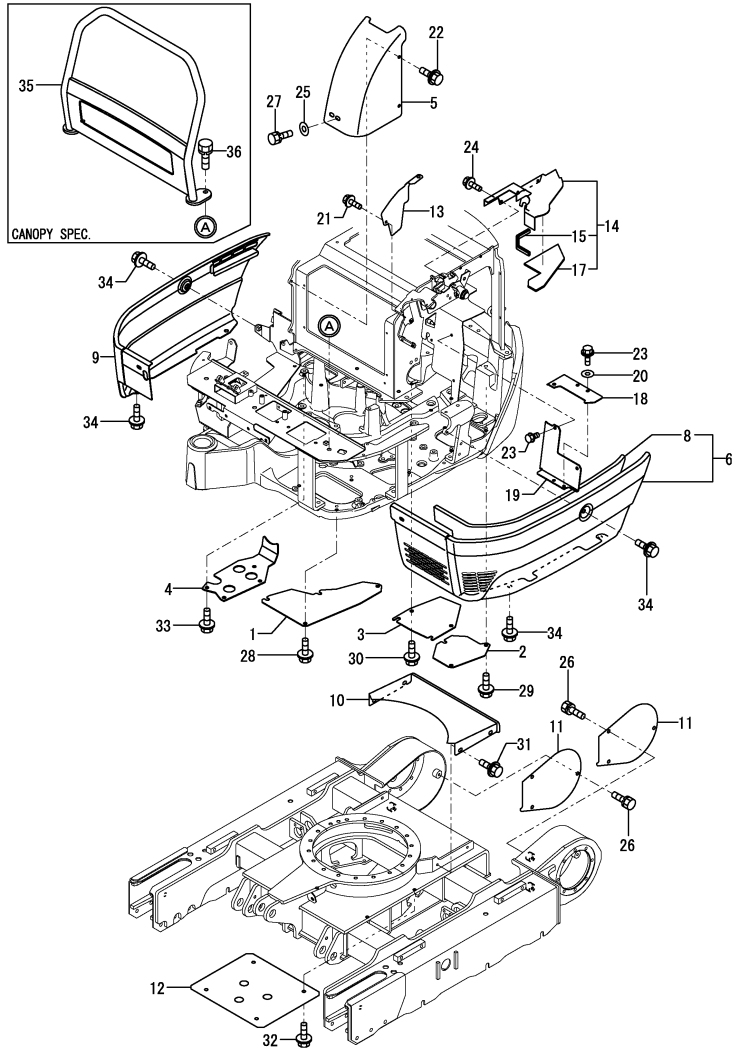
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-54100-1	FRAME,TURNING (82)	1							
1-1	1	172448-54101	FRAME A, TURNING(88)	1	1						N
(A=M/#26118)											
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.34. COVER



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

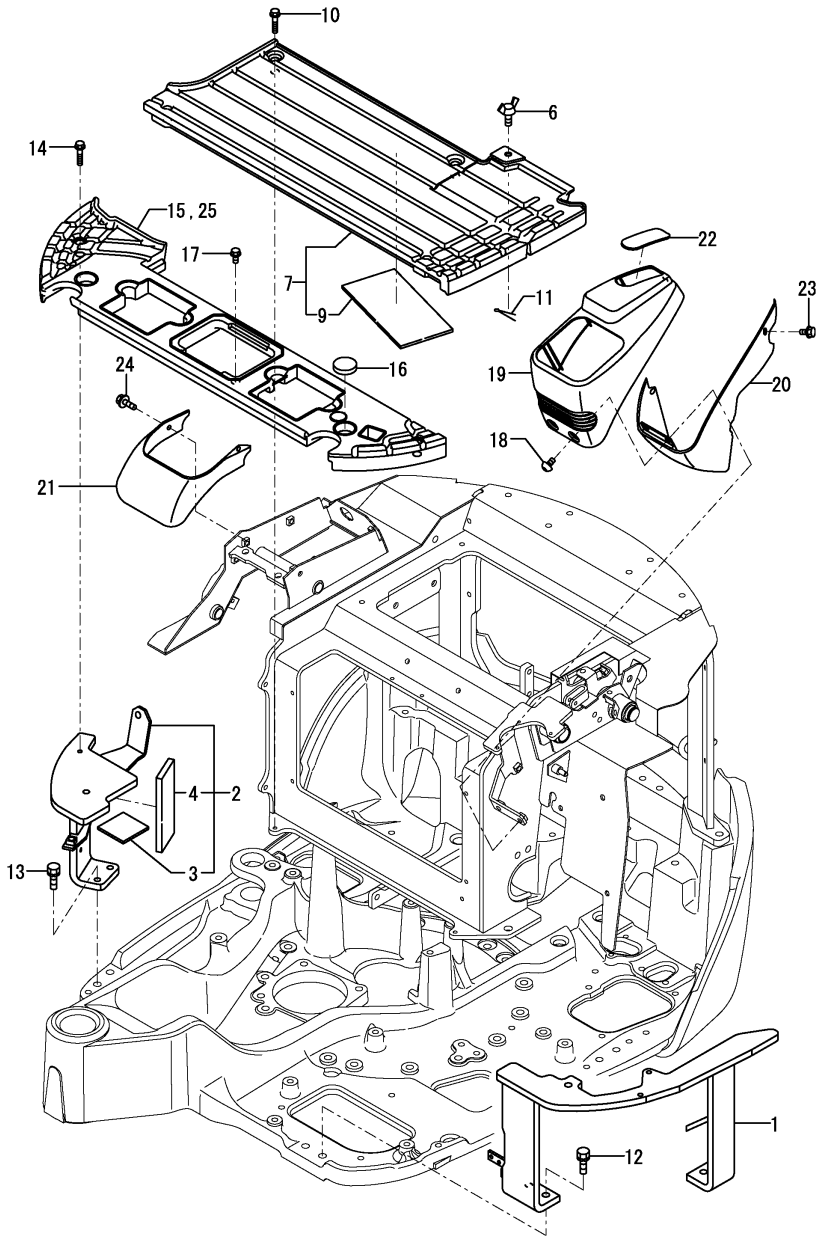
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-61110-1	COVER	1	1						
2	1	172448-61120-1	COVER	1	1						
3	1	172448-61130-1	COVER, ENGINE	1	1						
4	1	172448-61140-1	COVER	1	1						
5	1	172448-61160	COVER	1	1						
6	1	172448-61191-1	COVER	1	1						1
8	2	172448-61240	SPONGE	1	1						
9	1	172448-61250-1	COVER	1	1						2
10	1	172448-61450-1	COVER, HOSE	1	1						
11	1	172448-61500-1	COVER, MOTOR	2	2						
12	1	172448-61530-1	COVER	1	1						
13	1	172448-61710	COVER	1	1						
14	1	172448-61800	COVER, RESERVOIR	1	1						
15	2	172444-17620	SEAL	1	1						
17	2	172448-61870	SPONGE	1	1						
18	1	172448-61890	COVER, MULTI	1	1						
19	1	172448-61910	COVER, MULTI	1	1						
20	1	172458-62430	WASHER M8	2	2						
21	1	172519-63240	BOLT	1	1						
22	1	172519-63240	BOLT	2	2						
23	1	172519-63240	BOLT	4	4						
24	1	172519-63240	BOLT	2	2						
25	1	22137-100000	WASHER, 10	1	1						
26	1	26013-100202	BOLT, M10X 20	6	6						
27	1	26013-100202	BOLT, M10X 20	1	1						
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	4	4						
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						
34	1	26106-100162	BOLT, M10X 16 PLATED	8	8						
35	1	172448-61600-2	COVER	1							3
36	1	26013-120302	BOLT, M12X 30		2						
37A	1	172437-03351	LABEL, GREASE CYL.	1							4
37A-1	1	172437-03352	LABEL, GREASE CYL.	1	1						N 4
(A=M/#20870)											
38A	1	172437-03351	LABEL, GREASE CYL.	1							4
38A-1	1	172437-03352	LABEL, GREASE CYL.	1	1						N 4
(A=M/#20870)											
38B	1	172437-03421	LABEL, MUFFLER	1							4
38B-1	1	172437-03422	LABEL, MUFFLER US	1	1						N 4
(A=M/#20870)											
39A	1	172448-03561	LABEL, LIFT US		1						4

Remarks

- (1) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REFER NO.37A.
- (2) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REFER NO.38A & 38B
- (3) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REFER NO.39A.
- (4) LABELS ARE NOT ILLUSTRATED.

Fig.35. STEP & INSTRUMENT PANEL



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

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

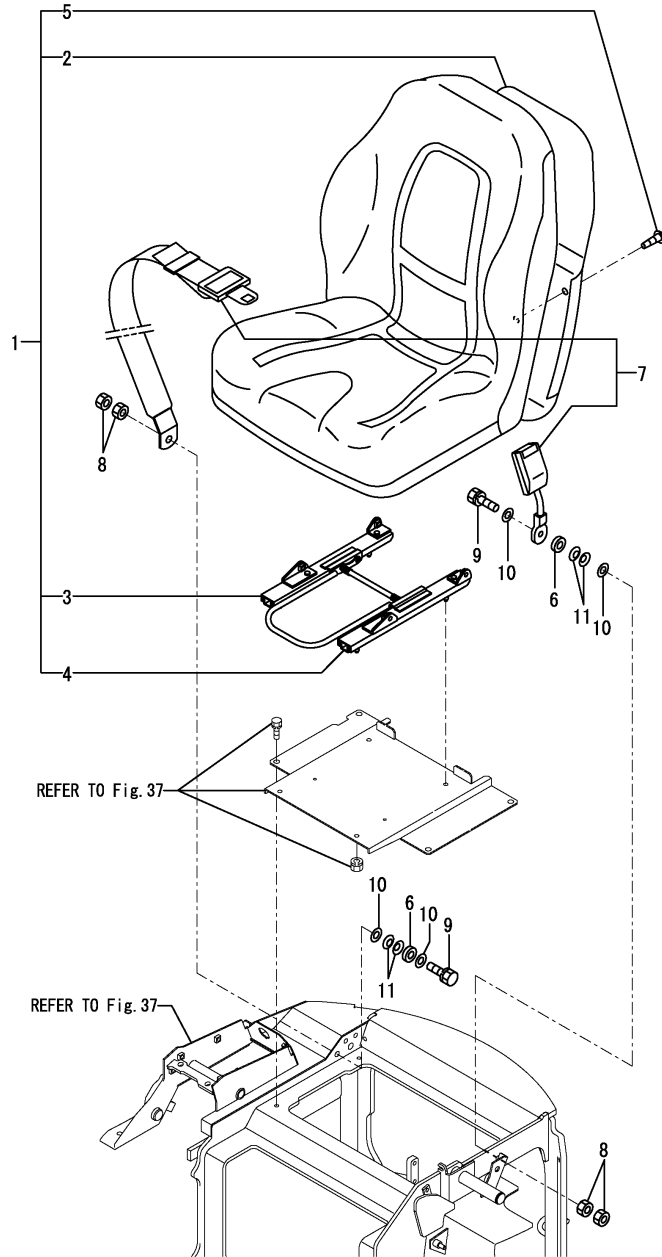
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-62101	STAND ASSY	1	1						
2	1	172448-62150	STAND ASSY	1	1						
3	2	172446-14250	RUBBER PLATE	2	2						
4	2	172458-14361	RUBBER PLATE-C,FO	1	1						
6	1	172142-62300	WING BOLT M10X15	1	1						
7	1	172448-62390	STEP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

Remarks  
 (1)ROPS CANOPY SPEC.  
 (2)CANOPY SPEC.

Fig.36. SEAT & SEAT BELT

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

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



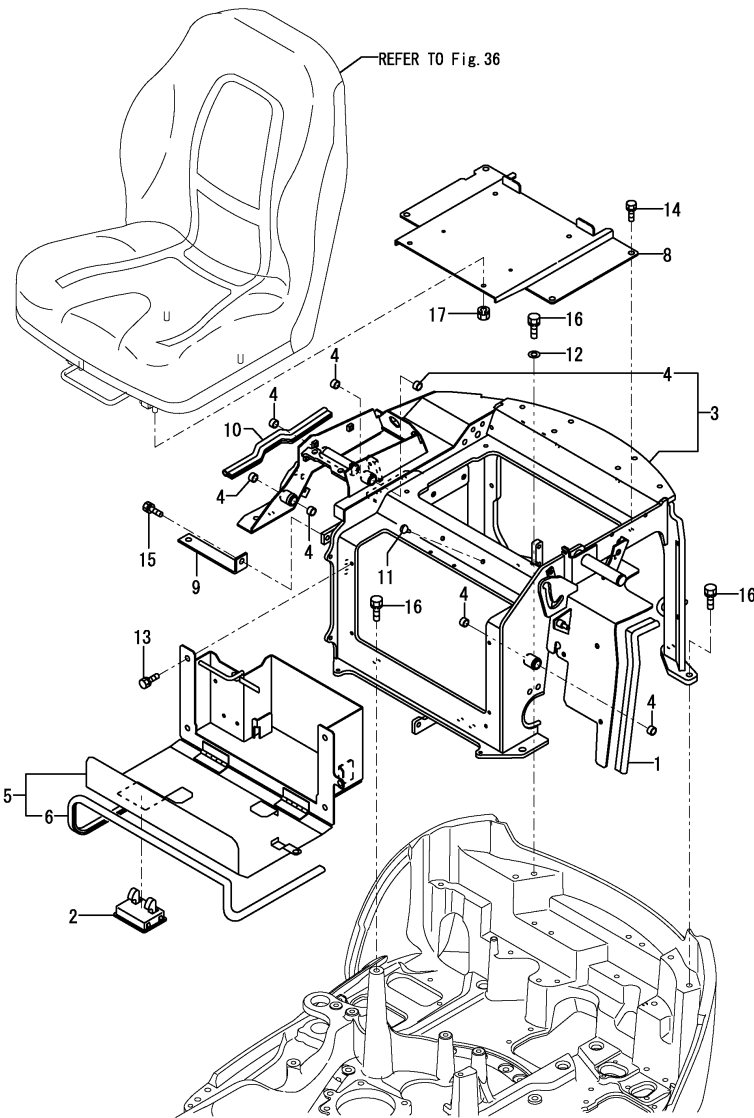
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172455-64200 (A=*2017.11.)	SHEET	1	1						Z	1
2	2	172455-64590	BOARD, FR SEAT BACK	1	1							
3	2	172455-64600	TRACK ASSY, SEAT	1	1							
4	2	172455-64610	TRACK ASSY, SEAT	1	1							
5	2	172455-64710	SCREW	14	14							
6	1	172156-61320	COLLAR	2	2							
7	1	172989-64451	BELT, SEAT	1	1							
8	1	172187-64830	NUT	4								
8-1	1	172187-64831 (A=M/#26043)	NUT	4	4							N
9	1	172448-68180	BOLT,7/16-20X50 UNF	2								
9-1	1	172448-68181 (A=M/#20891)	BOLT,7/16-20X50 UNF	4								N
9-2	1	172448-68182 (A=M/#26043)	BOLT 7/16-20X50 UNF	2	2							N
10	1	22137-120000	WASHER, 12	4	4							
11	1	933170-01490	SPRING	4								
11-1	1	172652-64220 (A=M/#26043)	SPRING	4	4							N

Remarks

(1) Spare parts is shown in Fig.82 No.1.

Fig.37. SEAT MOUNT

P/C NEWS No:Y00S4181-1  
PUBLISHED:2007/06



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

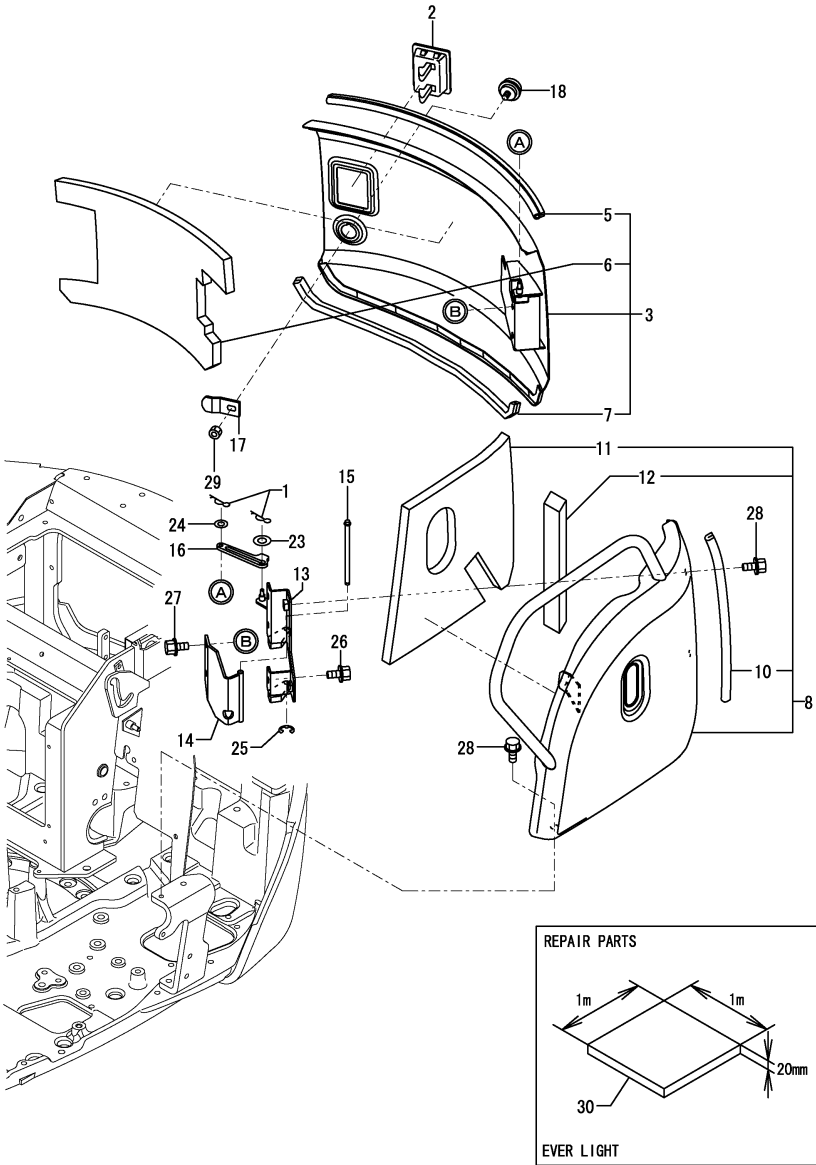
(D)=  
(E)=  
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-13520	RUBBER, SEAL	1	1						
2	1	172187-61421	HANDLE, LOCK	1	1						
3	1	172448-64211	MOUNT,SEAT (GRAY:73)	1	1						
3-1	1	172448-64200	MOUNT,SEAT (GRAY:73)	1	1						N
		(A=XXX) (B=XXX)									
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						
8	1	172448-64770	PLATE ,SEAT US (73)	1	1						
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	172437-03360	LABEL,BATTERY	1							2
18A-1	1	172437-03361	LABEL, BATTERY US	1	1						N 2
		(A=M/#20870)									
18B	1	172448-03570	LABEL,SUPORT US	1							2
18B-1	1	172472-03141	LABEL, SUPPORT US	1	1						N 2
		(A=M/#20870)									
18C	1	172446-03651	LABEL,VARIABLE US	1							2
18C-1	1	172446-03652	LABEL, VARIABLE US	1	1						N 2
		(A=M/#20870)									

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOW-  
 ING LABELS AT THE SAME TIME.  
 REFER NO.18A,18B & 18C.  
 (2)LABELS ARE NOT ILLUSTRATED.



Fig.38. HOOD(1)



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

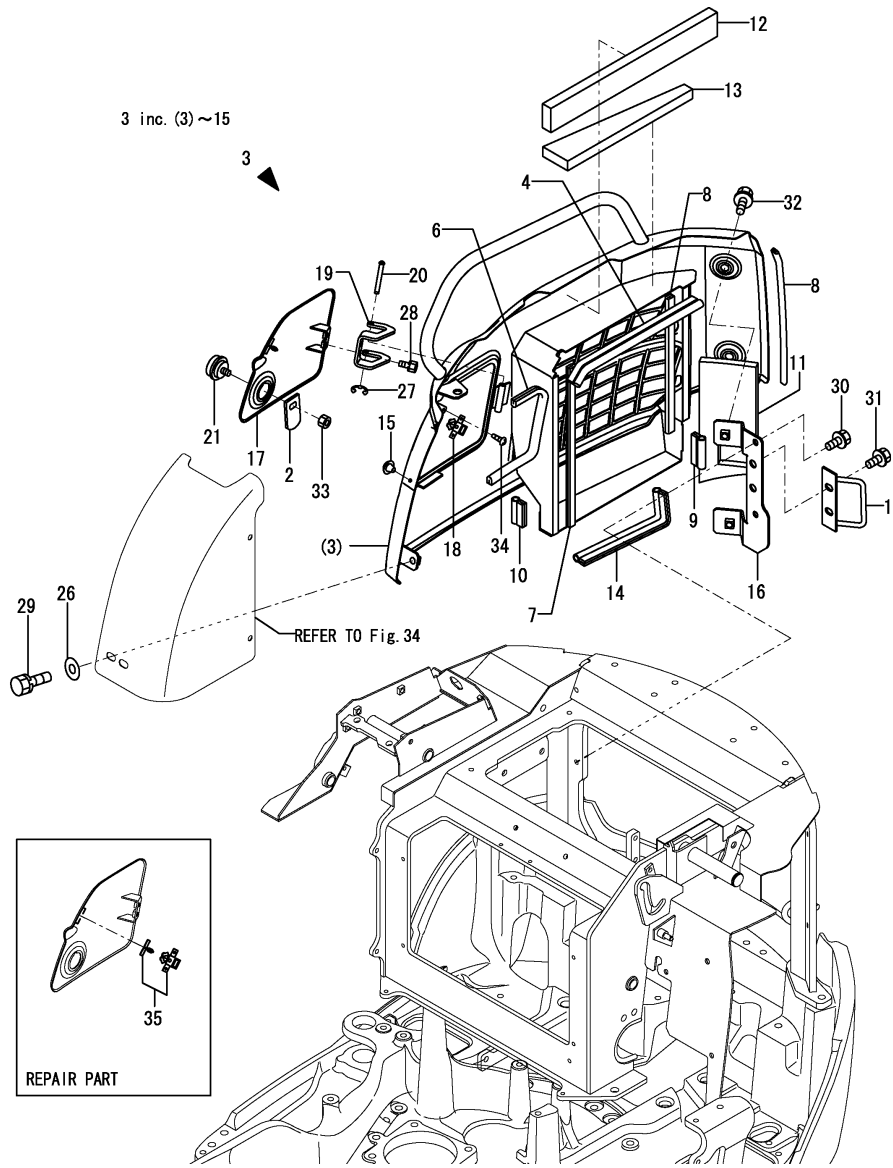
(D)=  
 (E)=  
 (F)=

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	172448-65090-1	BONNET A (YELLOW:87)	1	1						1
5	2	172448-65170	SEAL, BONNET	1	1						
6	2	172448-65180	SPONGE	1	1						
7	2	172649-65770	RUBBER, SEAL	1	1						
8	1	172448-65190-1	BONNET L (YELLOW:87)	1	1						
10	2	172448-65700	SEAL, RUBBER 280	1	1						
11	2	172448-65750	SPONGE	1	1						
12	2	172448-65760	SPONGE	1	1						
13	1	172448-65400	BRACKET ASSY,BONNET	1	1						
14	1	172448-65450	HINGE	1	1						
15	1	172448-65490	SHAFT, HINGE	1	1						
16	1	172448-65550	GUIDE, LOCK	1	1						
17	1	172448-65580	LOCK PLATE,BONNET A	1	1						
18	1	172164-66170	KEY ASSY, CYLINDER	1	1						
23	1	22117-060000	WASHER, 6	1	1						
24	1	22157-060000	WASHER, 6	1	1						
25	1	22272-000070	RING, E- 7	1	1						
26	1	26106-100202	BOLT, M10X 20 PLATED	3	3						
27	1	26106-100202	BOLT, M10X 20 PLATED	2	2						
28	1	26106-100202	BOLT, M10X 20 PLATED	4	4						
29	1	26347-100002	NUT, M10	1	1						
30	1	172478-65750	SPONGE	1	1						2
31A	1	172437-03380	LABEL,SWING AREA	1							3
31A-1	1	172437-03381 (A=M/#20870)	LABEL,SWING AREA US	1	1						N 3
31B	1	172437-03400	LABEL,ENG.HOOD	1							3
31B-1	1	172437-03401 (A=M/#21339)	LABEL (ENG COVER US	1	1						R 3
31B-2	1	172437-03402 (A=M/#20870)	LABEL, ENG,COVER US	1	1						N 3

Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REFER NO.31A & 31B
- (2)REPAIR PARE.
- (3)LABELS ARE NOT ILLUSTRATED.

Fig.39. HOOD(2)



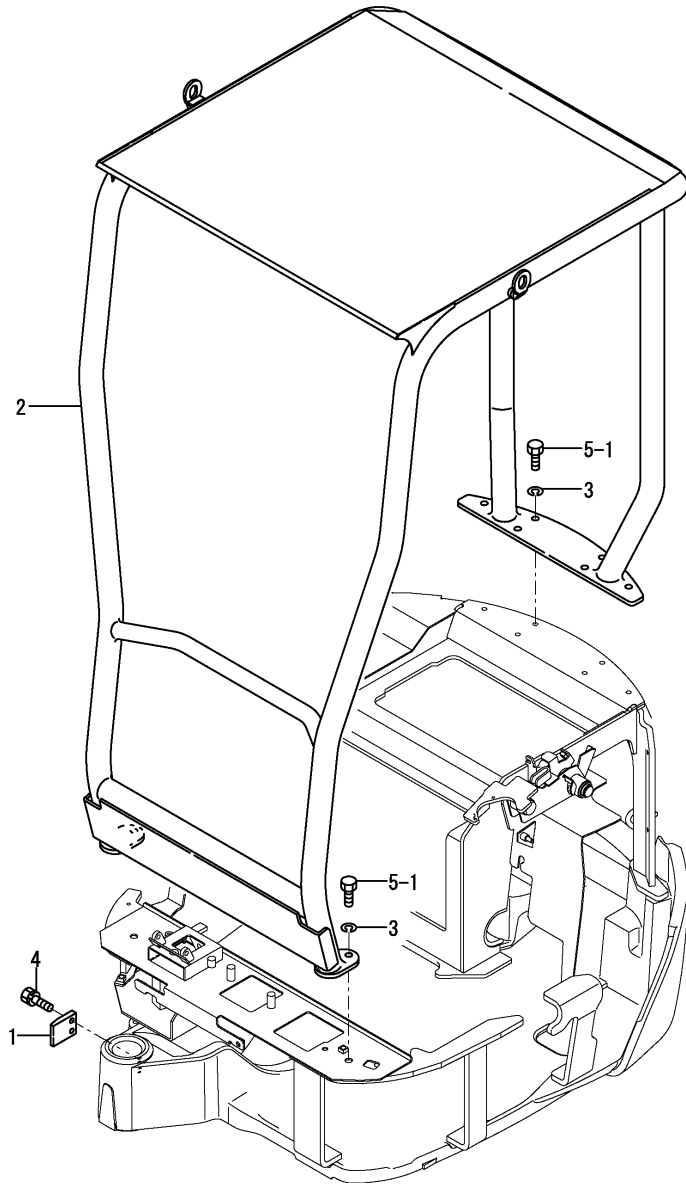
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-65070	BAR ASSY, LOCK	1	1						
2	1	172448-65270	LOCK PLATE,FO	1	1						
3	1	172448-65290-1	BONNET R (YELLOW:87)	1	1						1
4	2	172162-15310	SEAL	1	1						
6	2	172164-65580	MOLDING	1	1						
7	2	172448-65590	RUBBER, SEAL 330	1	1						
8	2	172448-65700	SEAL, RUBBER 280	2	2						
9	2	172422-65750	SEAL, DUCT	1	1						
10	2	172171-65850	RUBBER, SEAL	1	1						
11	2	172448-65850	SPONGE	1	1						
12	2	172448-65860	SPONGE	1	1						
13	2	172448-65870	SPONGE	1	1						
14	2	172164-66480	RUBBER 340, SEAL	1	1						
15	2	172176-67790	PLUG	1	1						
16	1	172448-65500	BRACKET ASSY,BONNET	1	1						
17	1	172448-65610-1	COVER ASSY, FUEL	1	1						
18	1	172448-65680	CATCH, ROLLER	1	1						
19	1	172448-65960	HINGE,FO COVER	1	1						
20	1	172448-65970	PIN,HINGE FO	1	1						
21	1	172164-66170	KEY ASSY, CYLINDER	1	1						
26	1	22137-100000	WASHER, 10	1	1						
27	1	22272-000050	RING, E- 5	1	1						
28	1	26013-060122	BOLT, M6X 12	2	2						
29	1	26013-100202	BOLT, M10X 20	1	1						
30	1	26106-100202	BOLT, M10X 20 PLATED	2	2						
31	1	26106-100202	BOLT, M10X 20 PLATED	2	2						
32	1	26106-100202	BOLT, M10X 20 PLATED	3	3						
33	1	26347-100002	NUT, M10	1	1						
34	1	26557-040082	SCREW, M4X 8	2	2						
35	1	172448-08330	CATCH KIT, ROLLER	1	1						2
36A	1	172437-03390	LABEL,RADIATOR	1	1						3
36A-1	1	172437-03391	LABEL, RADIATOR US	1	1						N 3
		(A=M/#20870)									
36B	1	172437-03410	LABEL,ENG.ROOM	1	1						3
36B-1	1	172437-03411	LABEL (ENG ROOM US	1	1						R 3
		(A=M/#21339)									

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOW-  
 ING LABELS AT THE SAME TIME.  
 REFER NO.36A & 36B  
 (2)REPAIR PART.  
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.40. ROPS CANOPY



(A)=VIO15-2(US)  
 (B)=VIO15-2(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
3	1	22217-120000	WASHER, SPRING 12	8	8						
4	1	26013-100302	BOLT, M10X 30	2	2						
5-1	1	26076-120302	BOLT, 10.912X 30	8	8						
6A	1	172437-03310	LABEL,SLOPE	1							2
6A-1	1	172437-03311	LABEL, SLOPE US	1							N 2
		(A=M/#20870)									
6A-2	1	172437-03312	LABEL,SLOPE US	1	1						N 2
		(A=XXX)									
6B	1	172437-03340	LABEL,TRANSPORT	1							2
6B-1	1	172437-03341	LABEL,TRANSPORT	1							R 2
		(A=M/#21339)									
6B-2	1	172437-03342	LABEL, TRANSPORT US	1	1						N 2
		(A=M/#20870)									
6C	1	172437-03371	LABEL	1							2
6C-1	1	172437-03372	LABEL, NEUTRAL US	1	1						N 2
		(A=M/#20870)									
6D	1	172437-03431	LABEL,STEERING	1							2
6D-1	1	172437-03432	LABEL, STEERING US	1	1						N 2
		(A=M/#20870)									
6E	1	172437-03440	LABEL,ROPS	1							2
6E-1	1	172437-03441	LABEL, ROPS US	1	1						N 2
		(A=M/#20870)									
6F	1	172437-03450	LABEL,SEAT BELT	1							2
6F-1	1	172437-03451	LABEL, SEAT BELT US	1	1						N 2
		(A=M/#20870)									
6G	1	172437-03470	LABEL,LEVER LOCK	1							2
6G-1	1	172437-03471	LABEL, LEVER LOCK US	1	1						N 2
		(A=M/#20870)									
6H	1	172448-03560	LABEL,LIFT US	1							2
6H-1	1	172448-03561	LABEL,LIFT US	1	1						N 2
		(A=M/#20870)									
6I	1	172437-03600	LABEL	1	1						2
6I-1	1	172437-03601	LABEL, 2-WAY US	1	1						N 2
		(A=M/#20870)									
6J	1	172448-03600	LABEL,MANUAL US	1	1						2

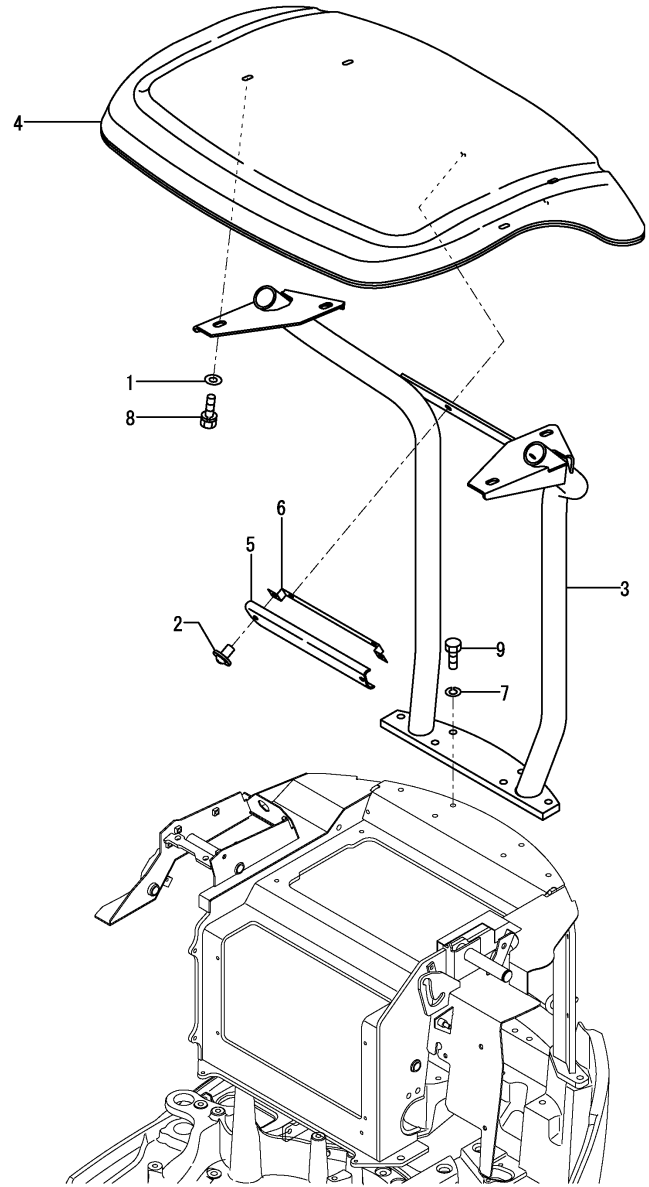
Remarks

(1)PLEASE USE THIS PART WITH FOLLOW-  
 ING LABELS AT THE SAME TIME.  
 REF.NO.6A,6B,6C,6D,6E,6F,6G,6H,6I&6J  
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.41. CANOPY

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

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



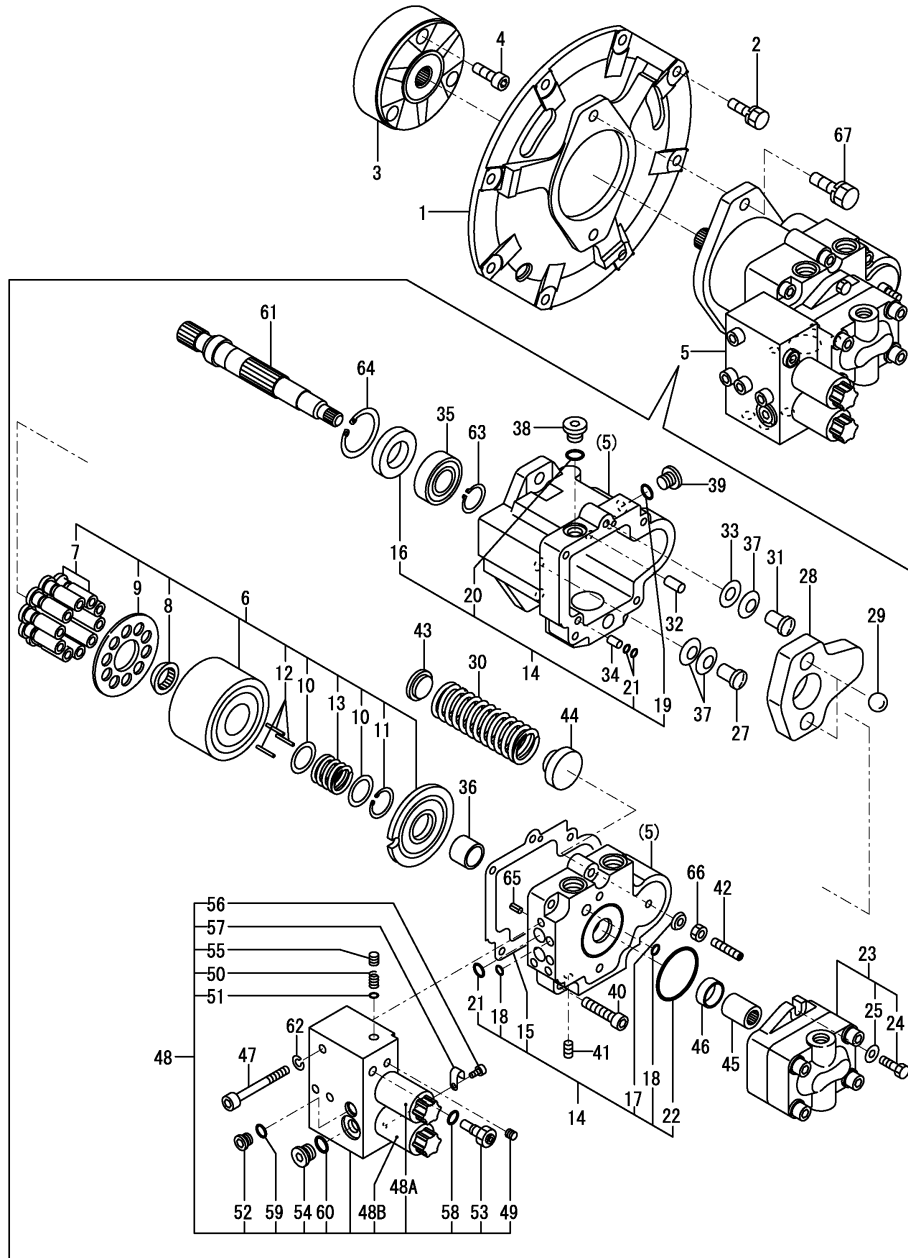
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-05250	WASHER 12		6						
2	1	172187-63160	CLIP		2						
3	1	172448-68100	CANOPY ASSY		1						1
4	1	172449-68200	ROOF,CANOPY		1						
5	1	172449-68210	COVER, CANOPY		1						
6	1	172449-68220	STAY, COVER		1						
7	1	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 LABELS AT THE SAME TIME.  
 REFER NO.10A.

(2)LABELS ARE NOT ILLUSTRATED.

Fig.42. HYD.OIL PUMP & JOINT



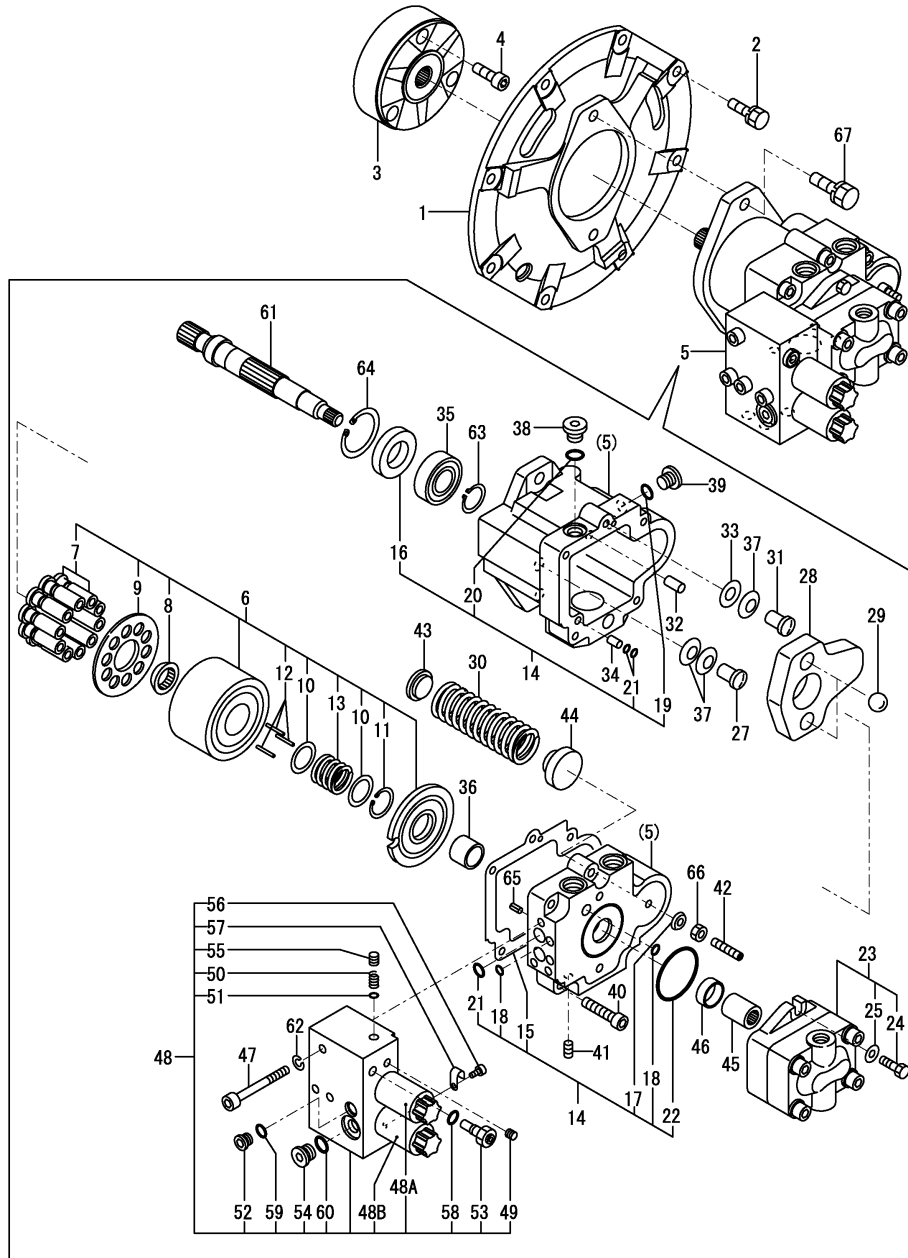
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-71101	MOUNT, PUMP	1	1						
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	172448-73110	CYLINDER BARREL KIT	1	1						
7	3	172448-73120	PISTON,PUMP ASSY	1	1						
8	3	172422-73130	HOLDER, BARREL	1	1						
9	3	172448-73150	HOLDER,SHOE	1	1						
10	3	172448-73170	RETAINER	2	2						
11	3	172448-73190	SNAP RING	1	1						
12	3	172458-73530	NEEDLE	3	3						
13	3	172458-73540	SPRING	1	1						
14	2	172448-73130	SEAL SET, PUMP	1	1						
15	3	172422-73170	GASKET	1	1						
16	3	172422-73510	SEAL, OIL	1	1						
17	3	172422-73570	WASHER	1	1						
18	3	24315-000080	O-RING, 1BP8.0	2	2						
19	3	24315-000110	O-RING, 1BP11.0	1	1						
20	3	24315-000110	O-RING, 1BP11.0	1	1						
21	3	24315-000120	O-RING, 1BP12.0	3	3						
22	3	24325-000550	O-RING, 1BG55.0	1	1						
23	2	172448-73140	PUMP ASSY,GEAR	1	1						
24	3	172450-73120	BOLT	2	2						
25	3	172450-73130	WASHER	2	2						
27	2	172450-73110	PIN,STOPPER	1	1						
28	2	172422-73140	PLATE, SWASH	1	1						
29	2	172422-73160	PIN	2	2						
30	2	172448-73160	SPRING	1	1						
31	2	172448-73180	PIN A,STOPPER	1	1						
32	2	172422-73220	PIN	1	1						
33	2	172422-73240	WASHER	1	1						
34	2	172422-73280	PIN	1	1						
35	2	172422-73290	BEARING, BALL	1	1						
36	2	172422-73500	BEARING, NEEDLE	1	1						
37	2	172422-73520	SPRING	3	3						
38	2	172422-73530	PLUG	1	1						
39	2	172422-73530	PLUG	1	1						
40	2	172422-73540	BOLT	5	5						
41	2	172422-73550	PLUG	4	4						
42	2	172422-73560	SCREW	1	1						
43	2	172458-73560	HOLDER, SPRING	1	1						
44	2	172458-73570	GUIDE, SPRING	1	1						
45	2	172422-73580	COUPLING	1	1						
46	2	172422-73590	COLLAR	1	1						
47	2	172422-73610	BOLT	3	3						
48	2	172458-73620	BLOCK ASSY, VALVE	1	1						
48-1	2	172458-73621	BLOCK ASSY, VALVE	1	1						N
				(A=*2014.10.)	(B=*2014.10.)						
48A	3	172458-73680	VALVE ASSY	1	1						1
48B	3	172458-73690	VALVE ASSY	1	1						2

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

Fig.42. HYD.OIL PUMP & JOINT



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

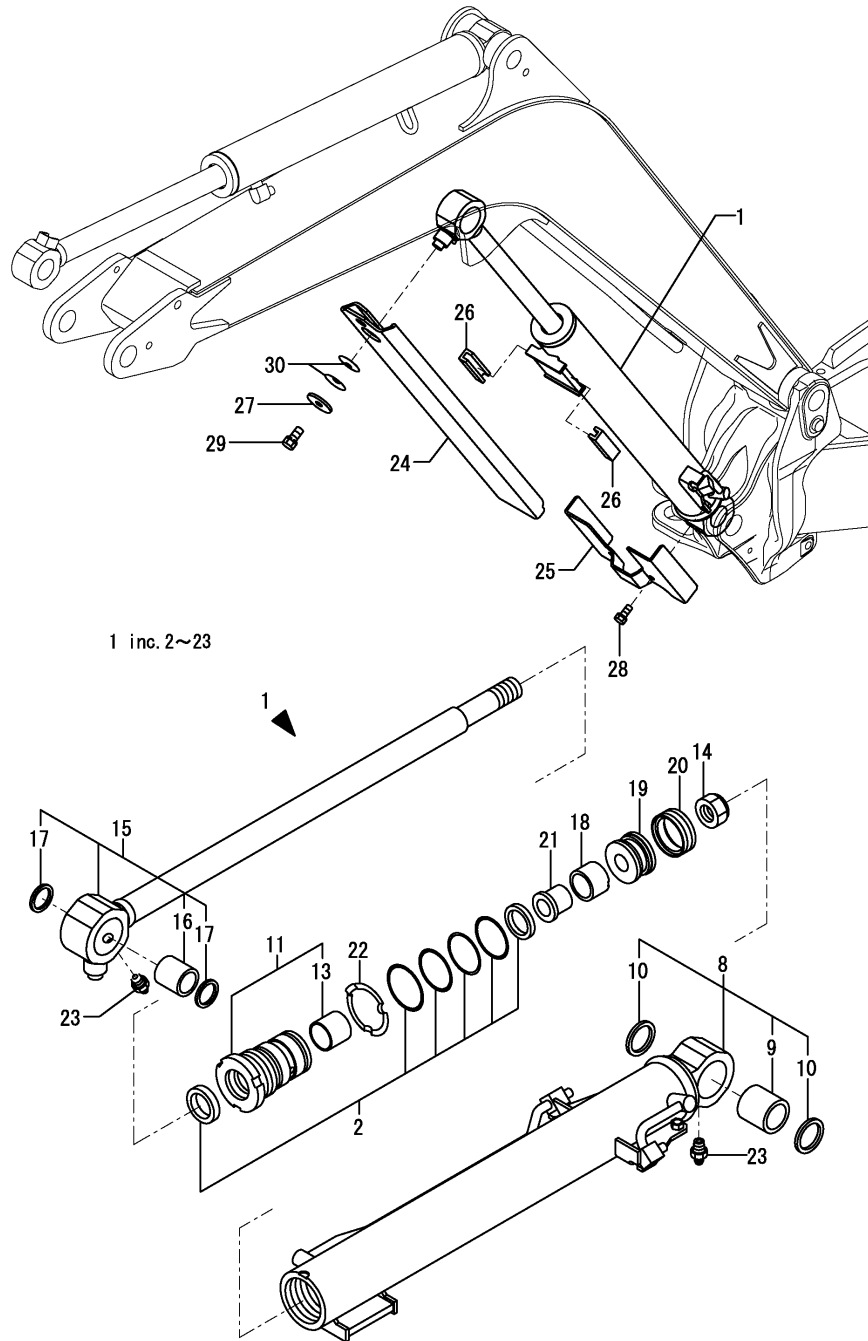
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
49	3	172422-73550	PLUG	7	7						
50	3	172422-73620	SPRING	1	1						
51	3	172422-73630	FILTER	1	1						
52	3	172458-73630	PLUG	1	1						
53	3	172422-73640	ADJUSTER KIT	1	1						
54	3	172458-73640	PLUG	1	1						
55	3	172422-73650	PLUG	2	2						
56	3	172422-73660	BOLT	1	1						
57	3	172422-73670	CLAMP	1	1						
58	3	24311-000100	O-RING, 1AP10.0	1	1						
59	3	24315-000080	O-RING, 1BP8.0	1	1						
60	3	24315-000140	O-RING, 1BP14.0	1	1						
61	2	172458-73660	SHAFT	1	1						
62	2	22212-080000	WASHER 8	3	3						
63	2	22252-000250	RING, 25	1	1						
64	2	22252-000520	RING, 52	1	1						
65	2	22351-060016	PIN, SPRING 6.0X16	1	1						
66	2	26711-080002	NUT, M8	1	1						
67	1	26013-120352	BOLT, M12X 35	2	2						

Remarks

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

Fig.43. BOOM CYLINDER

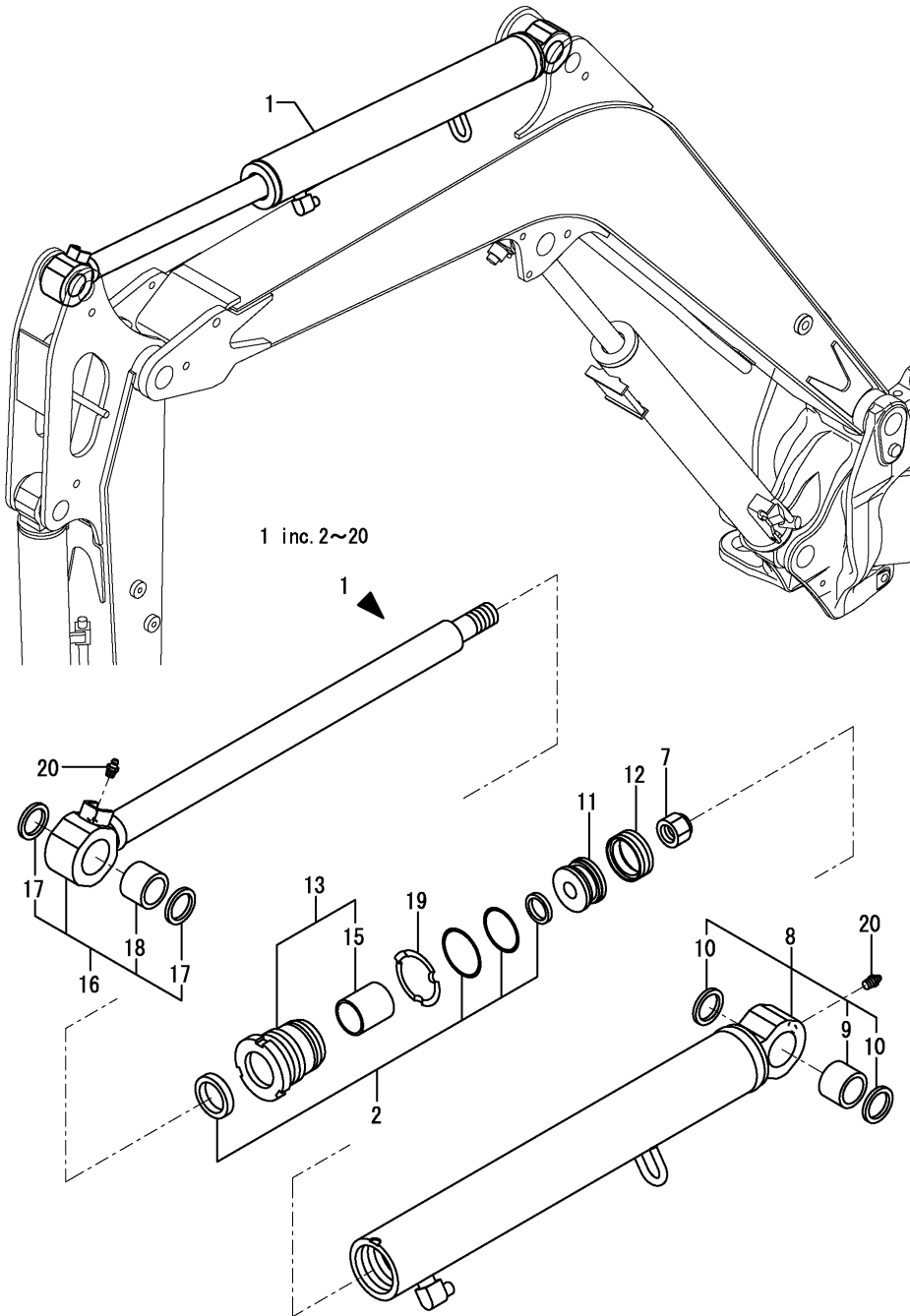


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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	172448-72110-1	TUBE, 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	172448-72140	ROD ASSY,BOOM	1	1						
16	3	172141-72561	BUSH (35-45-30	1	1						
17	3	172448-81610	SEAL, DUST 35X45X4	2	2						
18	2	172448-72270	PLUNGER, CUSHION 41	1	1						
19	2	172449-72310	PISTON 55(24-28	1							
19-1	2	172449-72311	PISTON 55(24-28	1	1						N
(A=M/#20941)											
20	2	172449-72320	GASKET	1							
20-1	2	172449-72321	GASKET ASSY, RGU55	1	1						N
(A=M/#20941)											
21	2	172449-72350	COLLAR, 41	1	1						
22	2	172173-72550	ROCK WASHER 55	1	1						
23	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						
24	1	172448-72190-1	COVER, SLIDE	1	1						
25	1	172448-72240-1	COVER, HOSE	1	1						
26	1	172186-72480	GUIDE, SLIDE	2	2						
27	1	22157-100000	WASHER, 10	1	1						
28	1	26013-080162	BOLT, M8X 16	2	2						
29	1	26013-100202	BOLT, M10X 20	1	1						
30	1	933168-14170	SPRING	2	2						

Fig.44. ARM CYLINDER



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

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

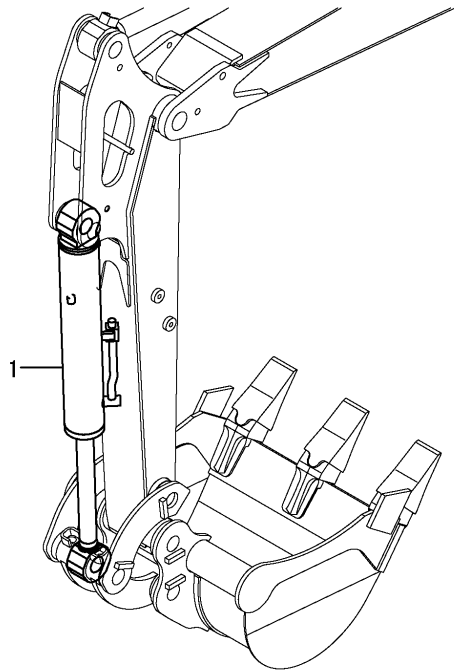
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-72300-1	CYLINDER, ARM	1	1						
2	2	172449-72020	SEAL SET, HEAD 55 35	1	1						
7	2	172171-72130	NUT, M24	1	1						
8	2	172448-72310-1	TUBE, ARM	1	1						
9	3	172149-72440	BUSH A 30X30,PIN	1	1						
10	3	172448-81600	SEAL, DUST 30X40X4	2	2						
11	2	172449-72310	PISTON 55(24-28	1							
11-1	2	172449-72311	PISTON 55(24-28	1	1						N
(A=M/#20941)											
12	2	172449-72320	GASKET	1							
12-1	2	172449-72321	GASKET ASSY, RGU55	1	1						N
(A=M/#20941)											
13	2	172449-72410	HEAD CMP B,55-35	1	1						
15	3	24550-035300	BUSH, 35X30	1	1						
16	2	172449-72500	LOD CMP,ARM	1	1						
17	3	172183-72290	SEAL, DUST 30X40X4.2	2							
17-1	3	172448-81600	SEAL, DUST 30X40X4	2	2						R
(A=M/#20941)											
18	3	172149-72440	BUSH A 30X30,PIN	1	1						
19	2	172173-72550	ROCK WASHER 55	1	1						
20	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						



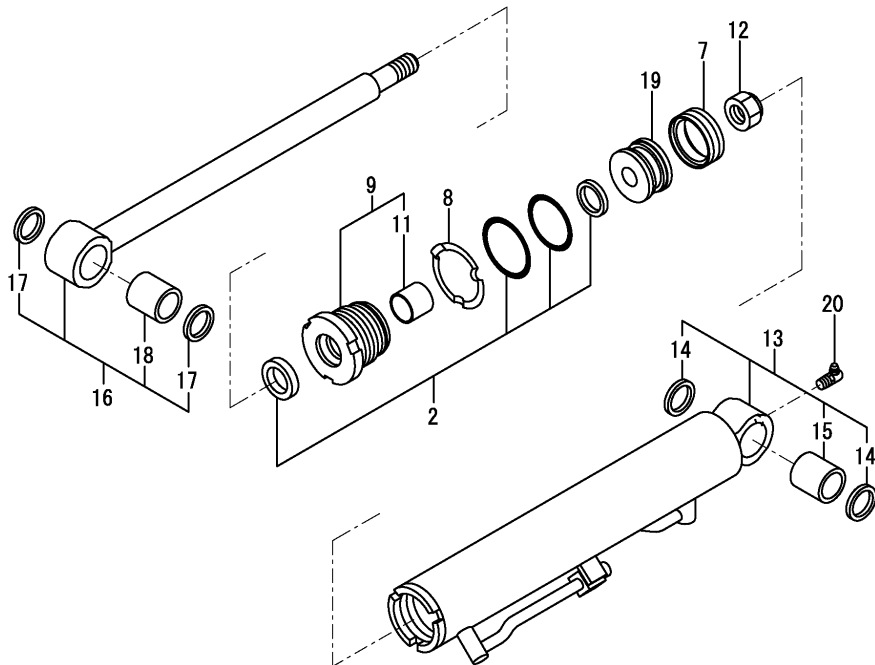
Fig.45. BUCKET CYLINDER

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

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

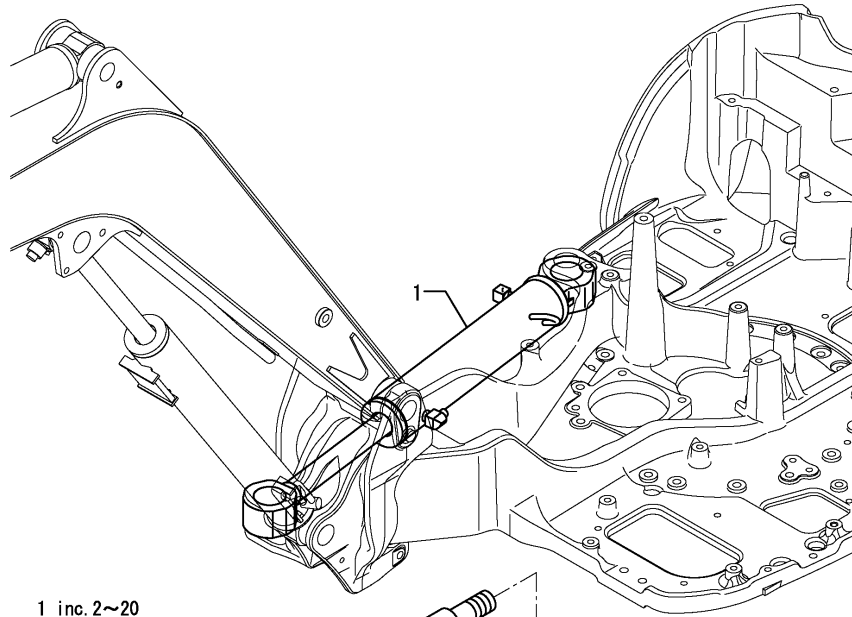


1 inc. 2~20



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	172449-72320	GASKET	1							
7-1	2	172449-72321 (A=M/#20941)	GASKET ASSY, RGU55	1	1						N
8	2	172173-72550	ROCK WASHER 55	1	1						
9	2	172449-72560	HEAD CMP 55 30	1	1						
11	3	24550-030300	BUSH, 30X30	1	1						
12	2	172141-72580	NUT, M20	1	1						
13	2	172449-72580-1	TUBE ASSY, BUCKET	1	1						
14	3	172183-72290	SEAL, DUST 30X40X4.2	2	2						
15	3	172149-72440	BUSH A 30X30,PIN	1	1						
16	2	172449-72650	LOD CMP,BUCKET	1	1						
17	3	172183-72290	SEAL, DUST 30X40X4.2	2							
17-1	3	172448-81600	SEAL, DUST 30X40X4	2	2						R
18	3	172149-72440 (A=M/#20941)	BUSH A 30X30,PIN	1	1						
19	2	172449-72680	PISTON 55(20-28)	1							
19-1	2	172449-72681 (A=M/#20941)	PISTON 55(20-28)	1	1						N
20	2	24761-050000	NIPPLE, GREASE C	1	1						

Fig.46. SWING CYLINDER

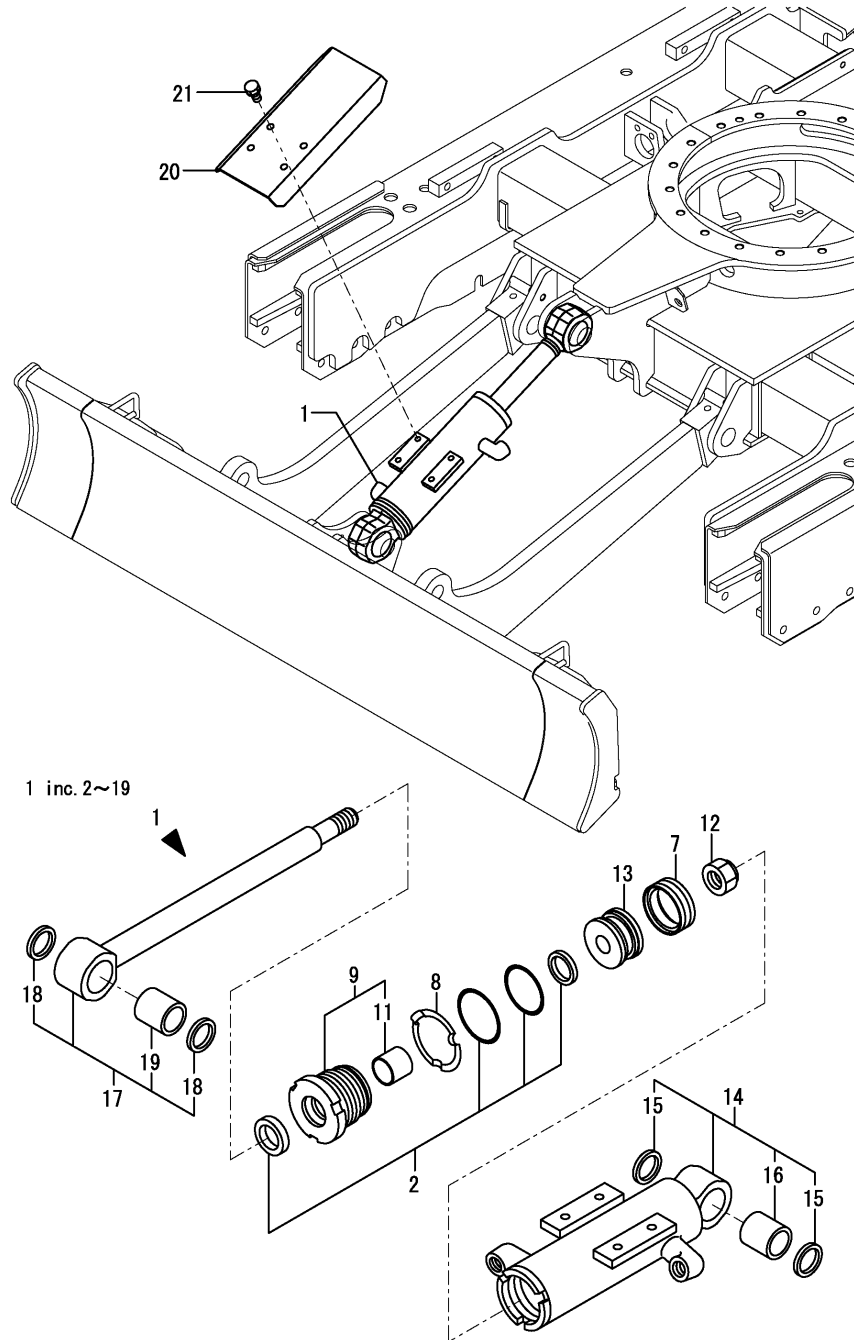


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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						
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	172448-72610-1	TUBE, SWING	1	1						
10	3	172448-72650	SEAL, DUST	2	2						
11	3	172458-72740	BUSH 40X40,SO	1	1						
12	2	172448-72640	ROD,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	172449-72950	PISTON 65(24-31	1							
18-1	2	172449-72951	PISTON 65(24-31	1	1						N
(A=M/#20941)											
19	2	172449-72960	GASKET RGU 65	1	1						
20	2	24761-050000	NIPPLE, GREASE C	1	1						

Fig.47. BLADE CYLINDER



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

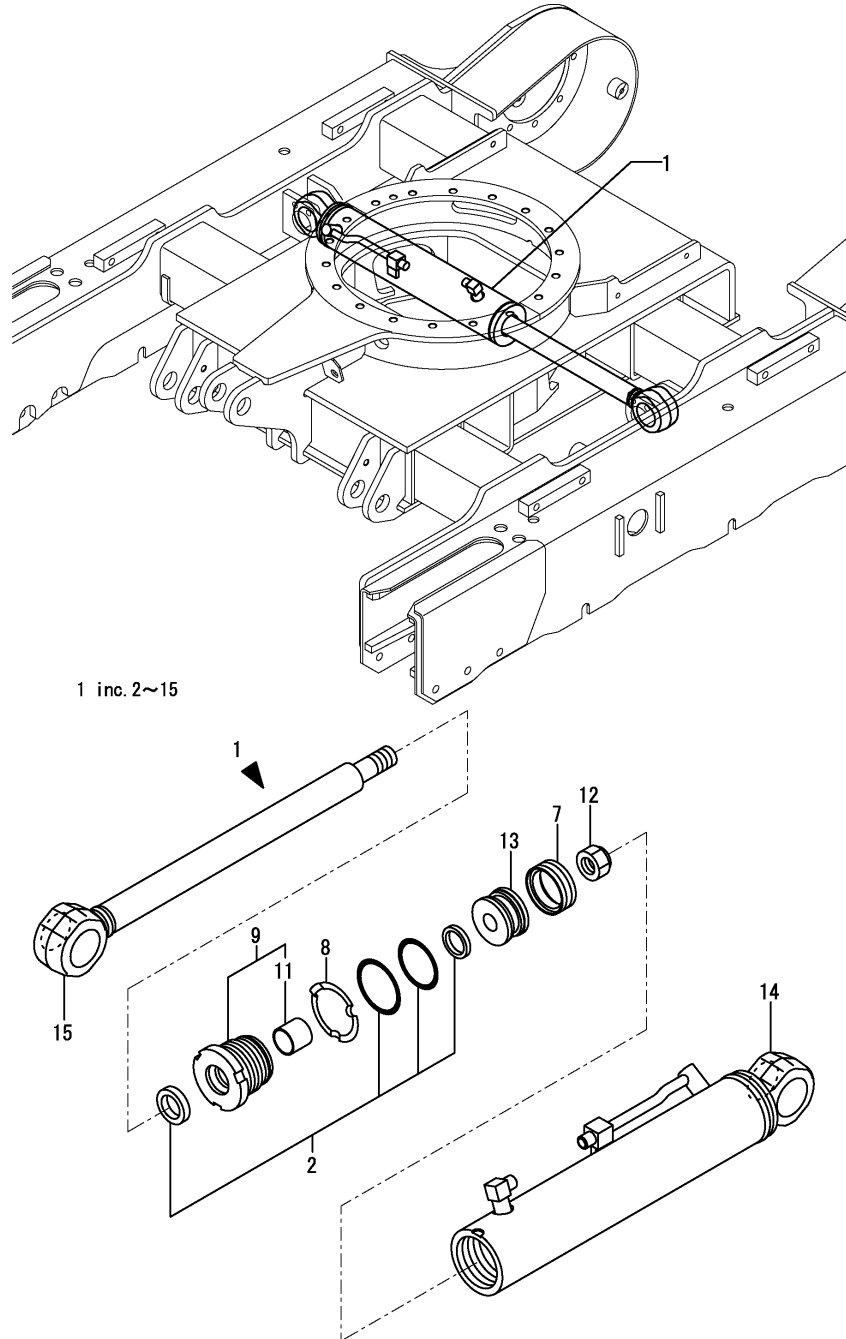
(D)=  
(E)=  
(F)=

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						
2	2	172449-72030	SEAL SET, HEAD 55 30	1	1						
7	2	172449-72320	GASKET	1							
7-1	2	172449-72321 (A=M/#20941)	GASKET ASSY, RGU55	1	1						N
8	2	172173-72550	ROCK WASHER 55	1	1						
9	2	172449-72560	HEAD CMP 55 30	1	1						
11	3	24550-030300	BUSH, 30X30	1	1						
12	2	172141-72580	NUT, M20	1	1						
13	2	172449-72680	PISTON 55(20-28	1							
13-1	2	172449-72681 (A=M/#20941)	PISTON 55(20-28	1	1						N
14	2	172449-72730-1	TUBE ASSY, BLADE	1	1						
15	3	172183-72290	SEAL, DUST 30X40X4.2	2							
15-1	3	172448-81600	SEAL, DUST 30X40X4	2	2						R
16	3	172149-72440 (A=M/#20941)	BUSH A 30X30,PIN	1	1						
17	2	172449-72770	LOD CMP(BLADE	1	1						
18	3	172183-72290	SEAL, DUST 30X40X4.2	2							
18-1	3	172448-81600 (A=M/#20941)	SEAL, DUST 30X40X4	2	2						R
19	3	172149-72440	BUSH A 30X30,PIN	1	1						
20	1	172447-72790-1	PROTECTOR (GREEN:82)	1	1						
21	1	26013-080162	BOLT, M8X 16	4	4						

Fig.48. VARIABLE LEG WIDEN / SHORTEN CYLINDER

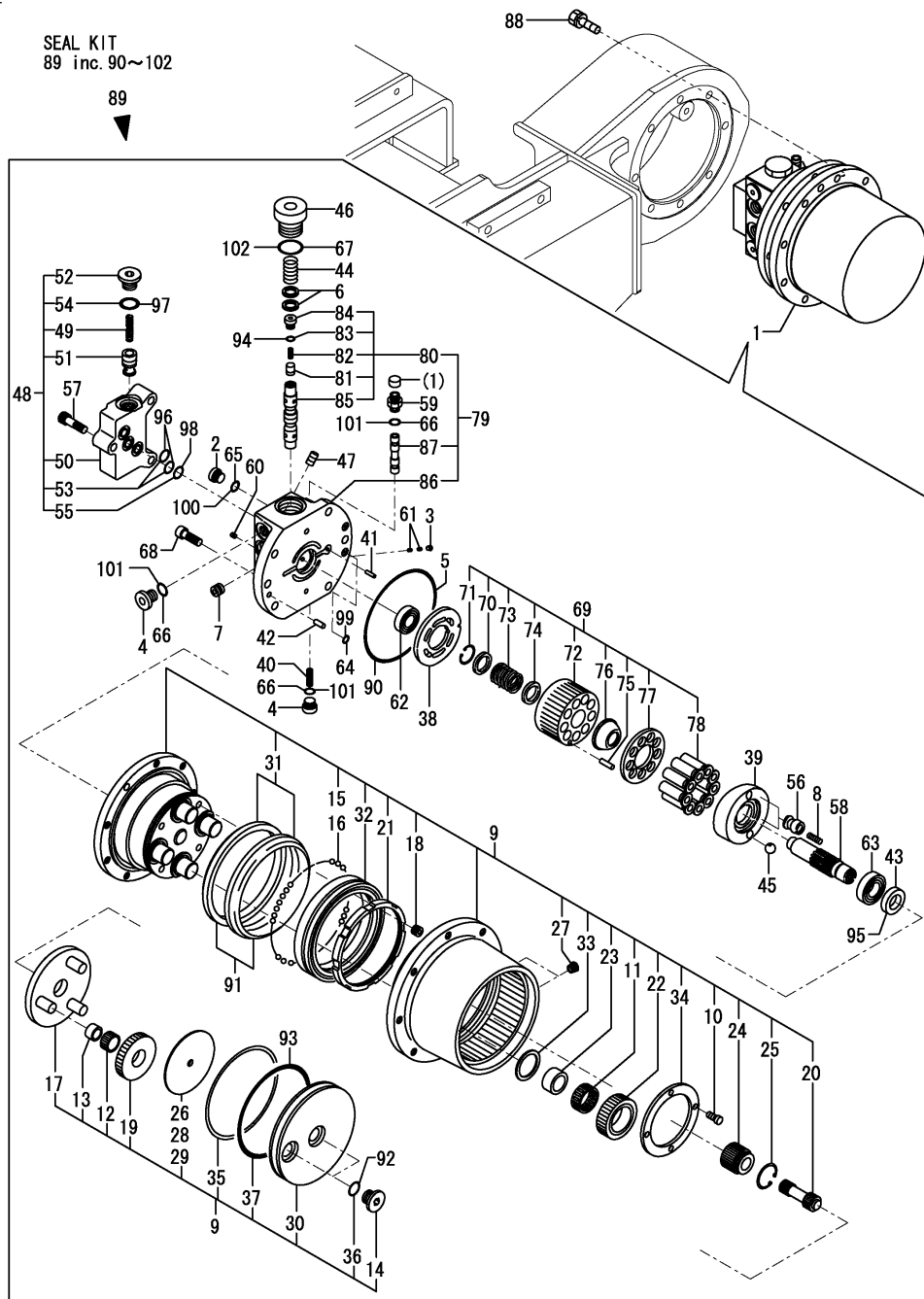
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



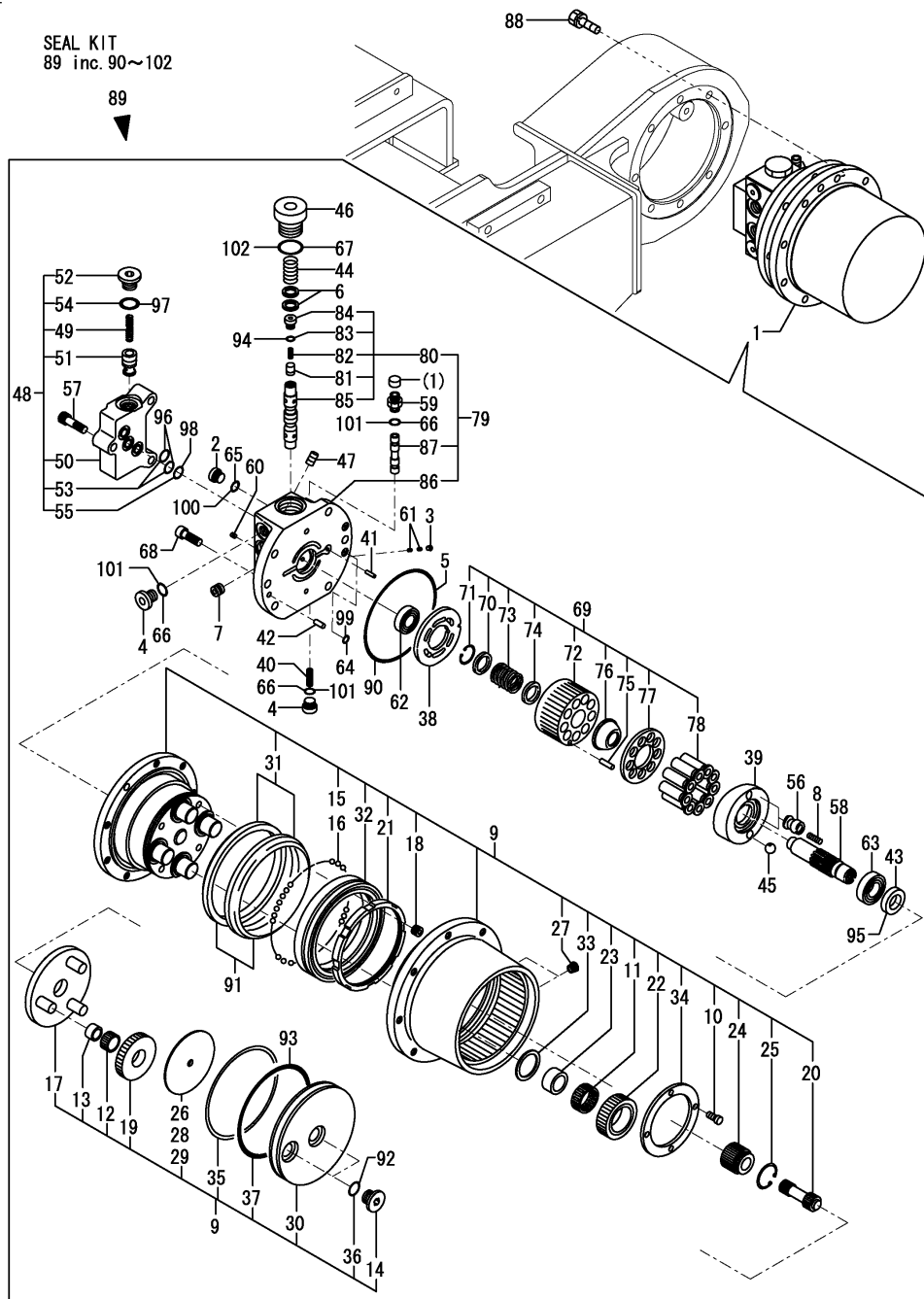
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-72900-1	CYLINDER ASSY	1	1						
2	2	172449-72030	SEAL SET, HEAD 55 30	1	1						
7	2	172449-72320	GASKET	1							
7-1	2	172449-72321	GASKET ASSY, RGU55	1	1						N
		(A=M/#20941)									
8	2	172173-72550	ROCK WASHER 55	1	1						
9	2	172449-72560	HEAD CMP 55 30	1	1						
11	3	24550-030300	BUSH, 30X30	1	1						
12	2	172141-72580	NUT, M20	1	1						
13	2	172449-72680	PISTON 55(20-28	1							
13-1	2	172449-72681	PISTON 55(20-28	1	1						N
		(A=M/#20941)									
14	2	172448-72910-1	TUBE, VARIABLE	1	1						
15	2	172448-72940	ROD,S/W	1	1						

Fig.49. TRAVEL MOTOR



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=XXX) (B=XXX)									
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	198	198						
16	3	172122-70350	BALL, STEEL	20	20						
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=XXX) (B=XXX)									
45	2	172450-73510	BALL, STEEL	4	4						
46	2	172456-73510	CAP	4	4						
47	2	172456-73520	ORIFICE	4	4						

Fig.49. TRAVEL MOTOR

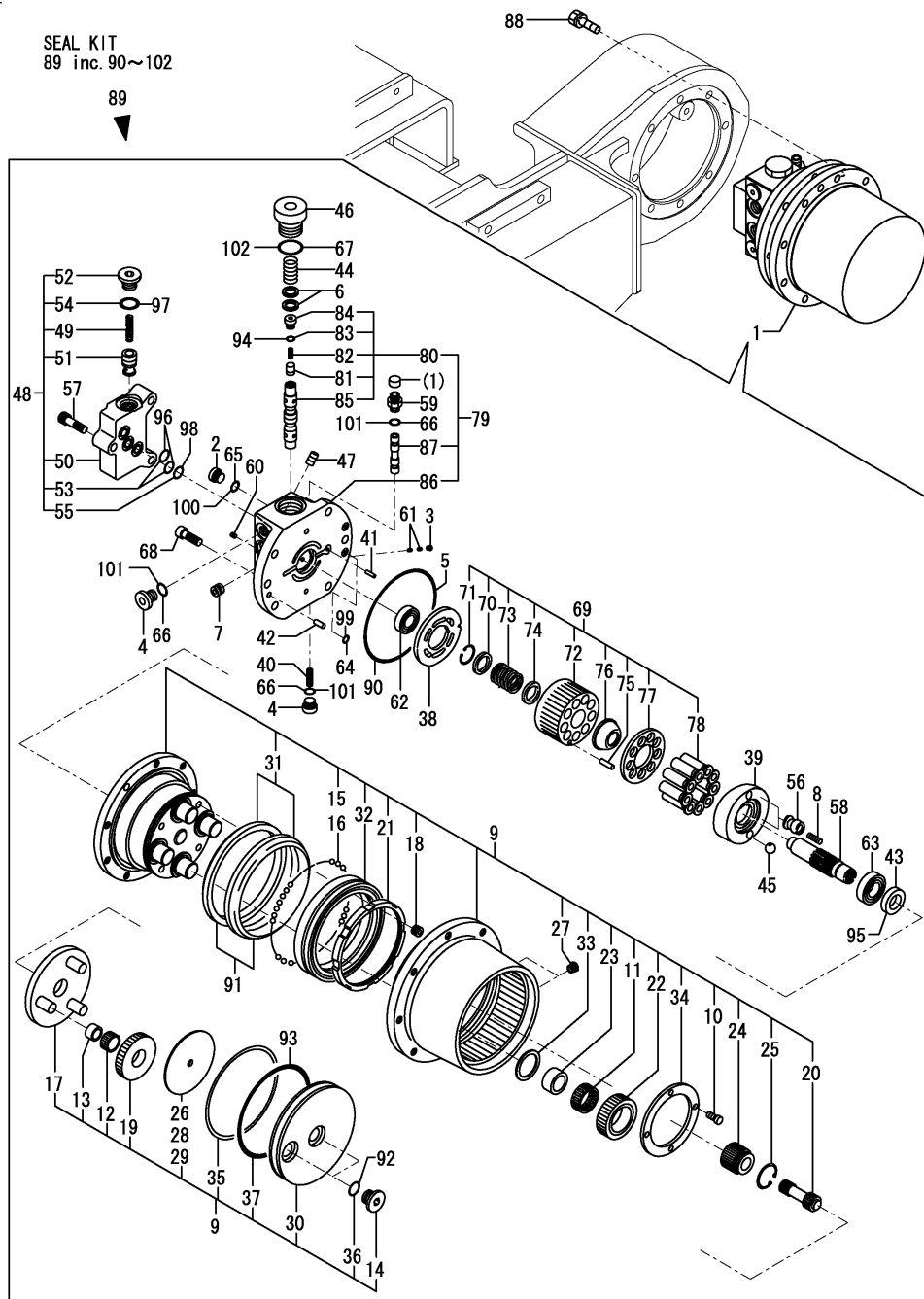


(A)=VIO15-2(US)  
(B)=VIO15-2(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
48	2	172456-73540	VALVE ASSY	2	2						
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=XXX)	(B=XXX)						
80	3	172448-73370	SPOOL ASSY	2	2						
80-1	3	172448-73371	SPOOL ASSY	2	2						N
				(A=XXX)	(B=XXX)						
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=XXX)	(B=XXX)						
86	3	172456-73470	PLATE, BASE	2	2						
87	3	172456-73530	SPOOL	2	2						
88	1	26013-100252	BOLT, M10X 25	16	16						
89	1	172456-73320	SEAL SET	2	2						
90	2	172141-70370	O-RING	2	2						
91	2	172183-73510	SEAL, FLOATING	2	2						
92	2	24315-000110	O-RING, 1BP11.0	4	4						

Fig.49. TRAVEL MOTOR



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

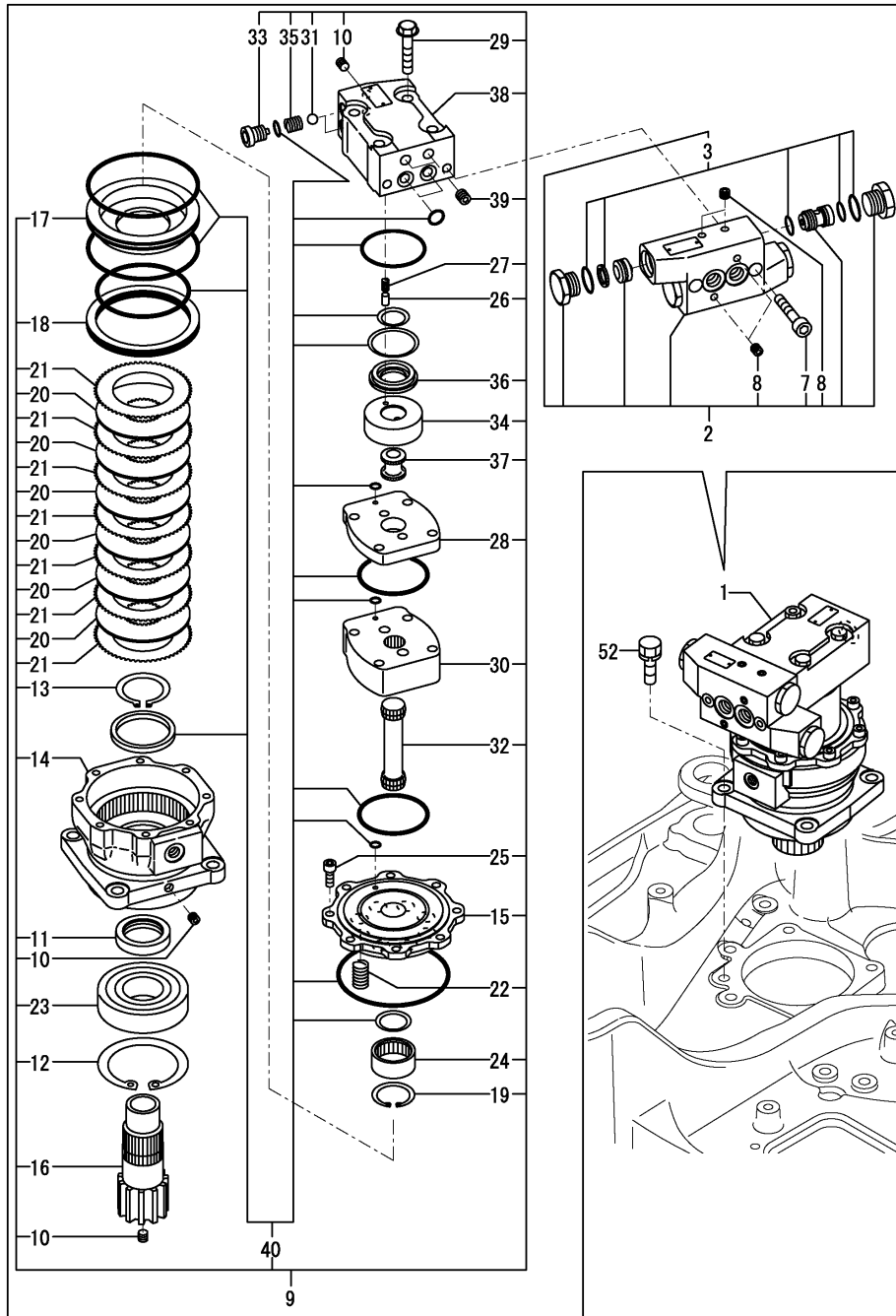
(D)=  
(E)=  
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
93	2	24315-001300	O-RING, 1BP130.0	2	2						
94	2	172141-70440	O-RING	4	4						
95	2	172450-73490	SEAL, OIL	2	2						
96	2	24315-000100	O-RING, 1BP10.0	4	4						
97	2	24315-000110	O-RING, 1BP11.0	4	4						
98	2	24315-000120	O-RING, 1BP12.0	2	2						
99	2	24315-000070	O-RING, 1BP7.0	6	6						
100	2	24315-000080	O-RING, 1BP8.0	4	4						
101	2	24315-000110	O-RING, 1BP11.0	8	8						
102	2	24315-000240	O-RING, 1BP24.0	4	4						

Fig.50. TURNING MOTOR

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

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



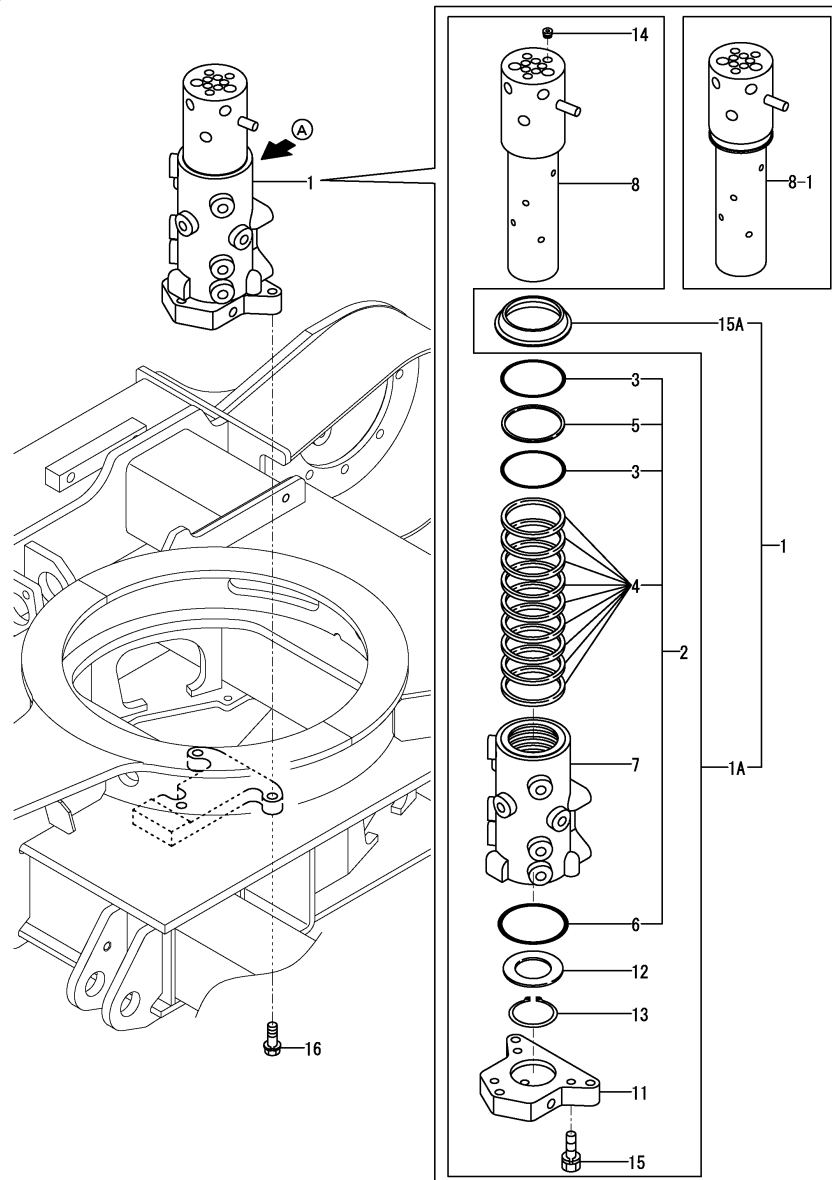
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-73310	MOTOR ASSY, SWING	1	1						
2	2	172448-73410	VALVE ASSY, SHOCKLESS	1	1						
3	3	172456-77110	SEAL SET, VALVE	1	1						
7	3	172456-77130	BOLT 6*65	2	2						
8	3	23871-010000	PLUG, R01	6	6						
9	2	172456-77140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



Fig.51. SWIVEL JOINT(Y SPEC.)

(A)=VIO15-2(US)  
 (B)=VIO15-2(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=*2005.10.) (B=*2005.10.)											
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=*2005.10.) (B=*2005.10.)											
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						
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	172446-73870	SHAFT, SWIVEL	1	1						
8-1	3	172446-73871	SHAFT, SWIVEL	1	1						F 2
(A=*2004.11.) (B=*2004.11.)											
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						
15A	2	172448-73900	COVER, DUCT	1	1						W
(A=*2005.10.) (B=*2005.10.)											
16	1	26013-100402	BOLT, SPRING M10X 40	3	3						

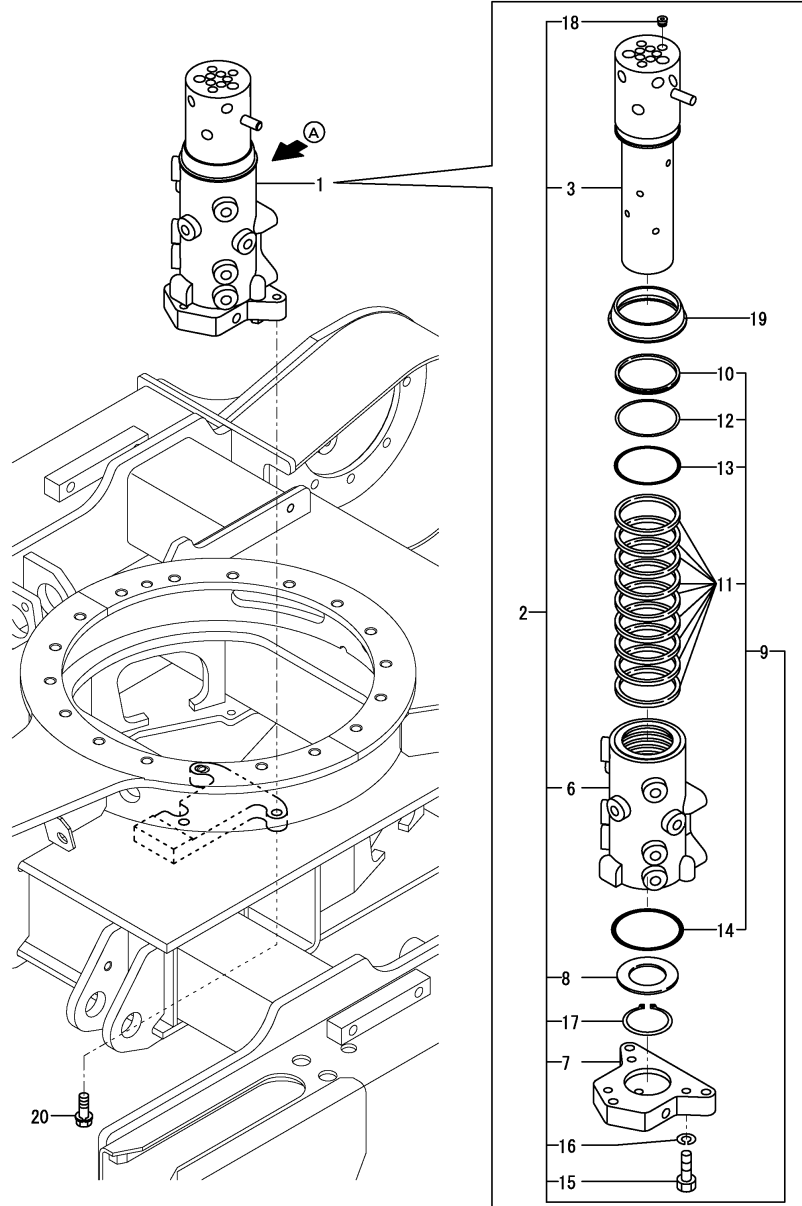
Remarks

- (1)A : no label.  
Compatible by assembly exchange with parts of Fig.80(51A) No.1.  
The inner parts are not compatible.
- (2)Interchangeable by simultaneous replacement with No.15A.

Fig.81. (51A)SWIVEL JOINT(N SPEC.)

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

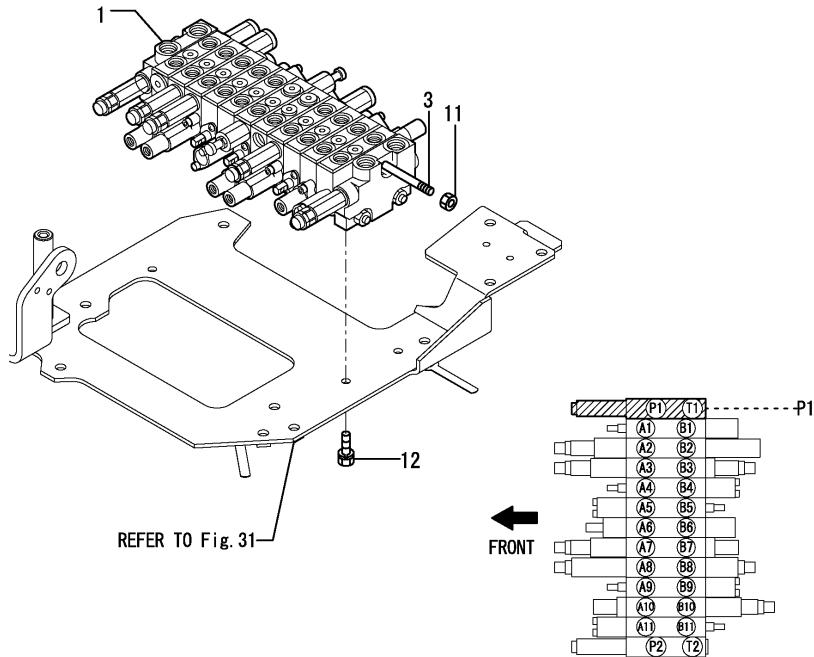
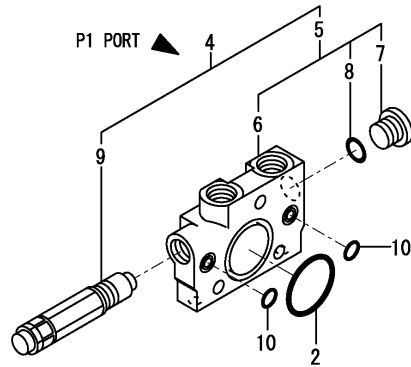
(1)A:NACHI LABEL  
 Compatible by assembly exchange from parts of Fig.51 No.1-2.  
 The inner parts are not compatible.

Fig.52. CONTROL VALVE(1/7)

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

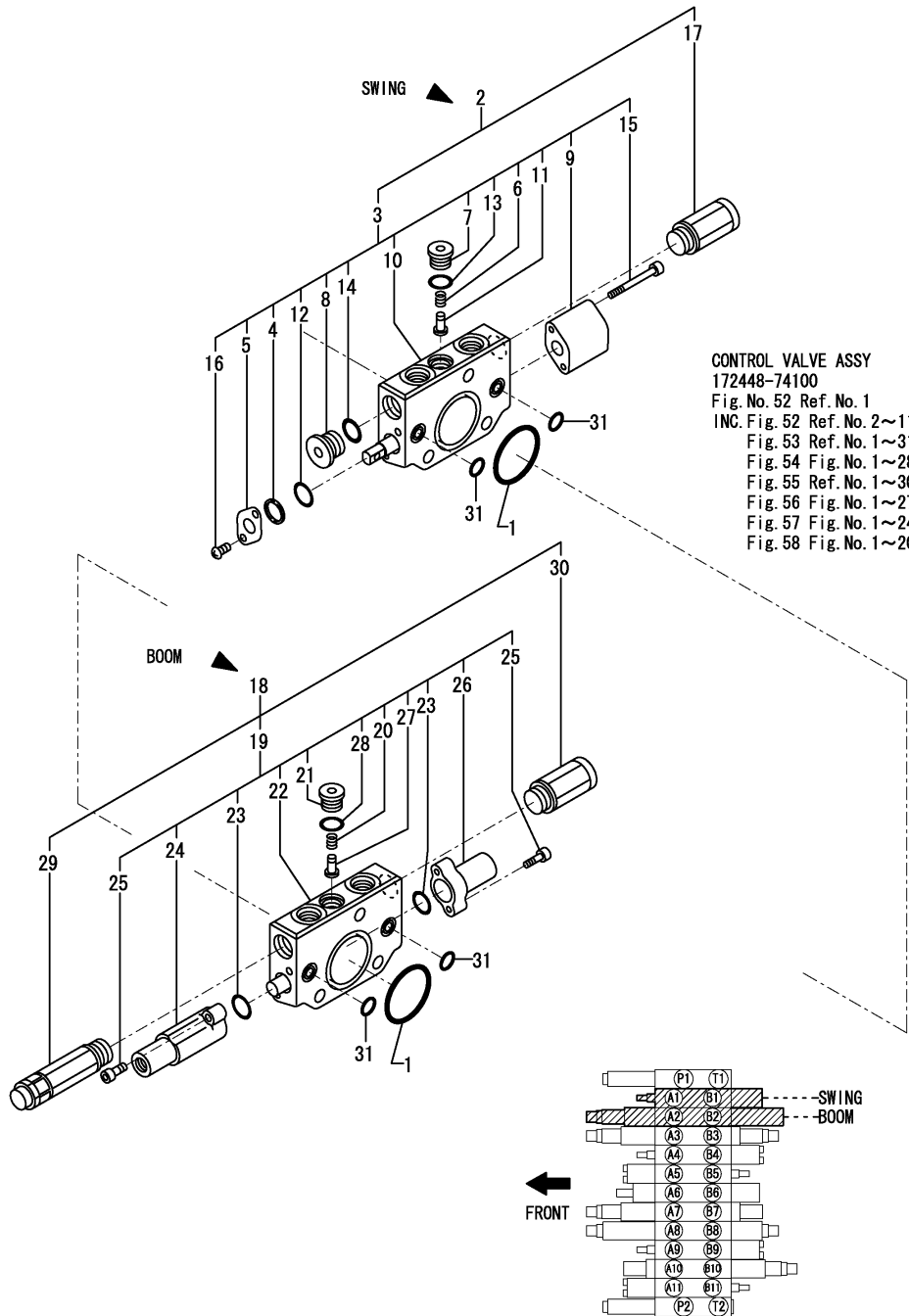
(D)=  
 (E)=  
 (F)=

CONTROL VALVE ASSY  
 172448-74100  
 Fig. No. 52 Ref. No. 1  
 INC. Fig. 52 Ref. No. 2~11.  
 Fig. 53 Ref. No. 1~31.  
 Fig. 54 Fig. No. 1~28.  
 Fig. 55 Ref. No. 1~30.  
 Fig. 56 Fig. No. 1~27.  
 Fig. 57 Fig. No. 1~24.  
 Fig. 58 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						
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.53. CONTROL VALVE(2/7)



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

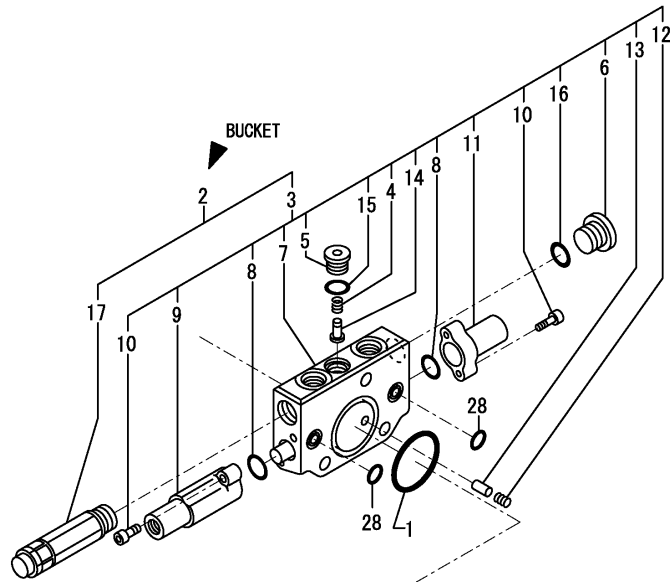
(D)=  
 (E)=  
 (F)=

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						
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						
31	2	24315-000100	O-RING, 1BP10.0	4	4						

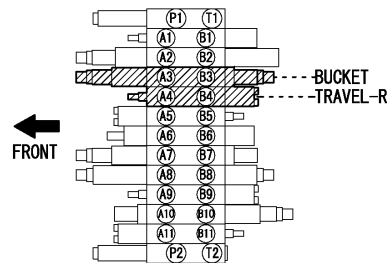
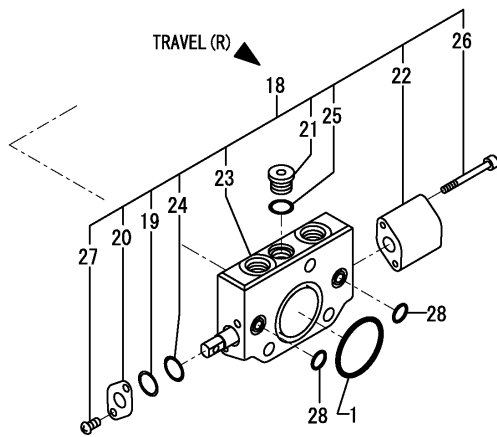
Fig.54. CONTROL VALVE(3/7)

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

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



CONTROL VALVE ASSY  
172448-74100  
Fig. No. 52 Ref. No. 1  
INC. Fig. 52 Ref. No. 2~11.  
Fig. 53 Ref. No. 1~31.  
Fig. 54 Fig. No. 1~28.  
Fig. 55 Ref. No. 1~30.  
Fig. 56 Fig. No. 1~27.  
Fig. 57 Fig. No. 1~24.  
Fig. 58 Fig. No. 1~20.



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	172448-74430	SECTION, BUCKET	1	1						
3	3	172448-74160	SECTION ASSY, BUCKET	1	1						
4	4	172157-70690	SPRING, VALVE	1	1						
5	4	172157-70700	STAY, VALVE	1	1						
6	4	172157-70720	PLUG PF3/8	1	1						
7	4	172448-74170	SPOOL ASSY, BUCKET	1	1						
8	4	172449-74220	O-RING, AS 1A016	2	2						
9	4	172449-74270	CAP	1	1						
10	4	172449-74280	BOLT, M5 X 20	4	4						
11	4	172449-74290	CAP	1	1						
12	4	172447-74300	SPRING, VALVE	1	1						
13	4	172447-74310	VALVE, CHECK	1	1						
14	4	172137-74520	VALVE, CHECK	1	1						
15	4	24315-000110	O-RING, 1BP11.0	1	1						
16	4	24315-000140	O-RING, 1BP14.0	1	1						
17	3	172448-74370	OVER LOAD RELIFE V	1	1						
18	2	172448-74180	SECTION ASSY, TRAVEL	1	1						
19	3	172157-70630	BAC UP RING	1	1						
20	3	172157-70640	PLATE, O-RING	1	1						
21	3	172157-70700	STAY, VALVE	1	1						
22	3	172157-70820	CAP, SPRING	1	1						
23	3	172448-74190	SPOOL ASSY, TRAVEL	1	1						
24	3	24311-240100	O-RING, 1AP10A	1	1						
25	3	24315-000110	O-RING, 1BP11.0	1	1						
26	3	26450-050452	BOLT, M5X 45	2	2						
27	3	26557-050102	SCREW, M5X10	2	2						
28	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.55. CONTROL VALVE(4/7)

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

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

**CONTROL VALVE ASSY**  
 172448-74100

Fig. No. 52 Ref. No. 1

INC. Fig. 52 Ref. No. 2~11.

Fig. 53 Ref. No. 1~31.

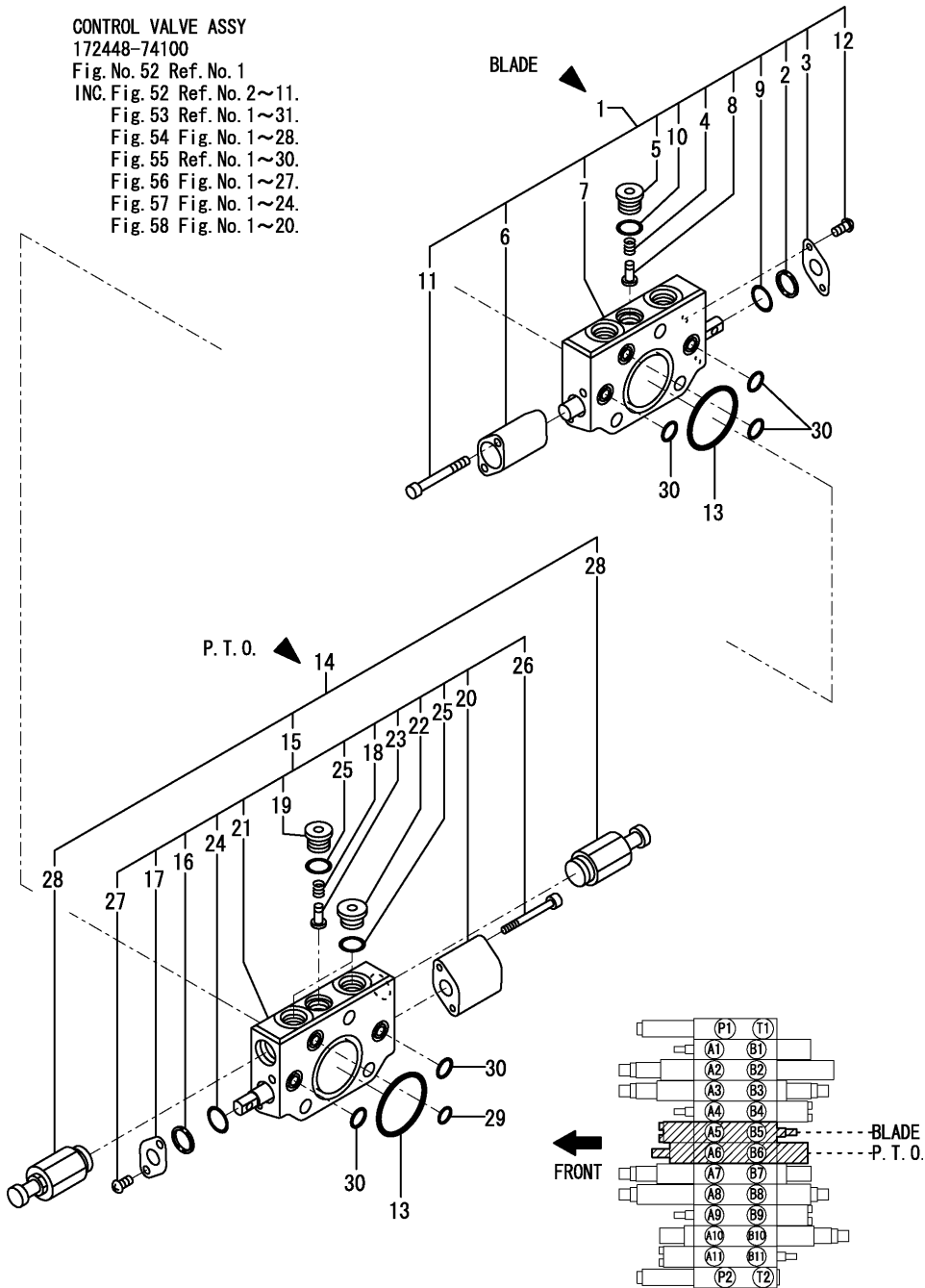
Fig. 54 Fig. No. 1~28.

Fig. 55 Ref. No. 1~30.

Fig. 56 Fig. No. 1~27.

Fig. 57 Fig. No. 1~24.

Fig. 58 Fig. No. 1~20.

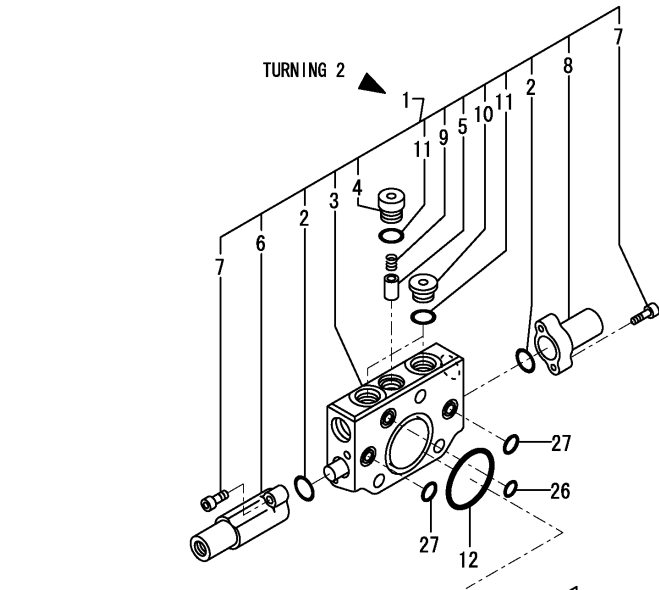


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172448-74200	SECTION ASSY, BLADE	1	1						
2	3	172157-70630	BAC UP RING	1	1						
3	3	172157-70640	PLATE, O-RING	1	1						
4	3	172157-70690	SPRING, VALVE	1	1						
5	3	172157-70700	STAY, VALVE	1	1						
6	3	172157-70820	CAP, 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						

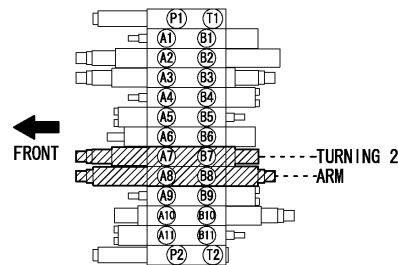
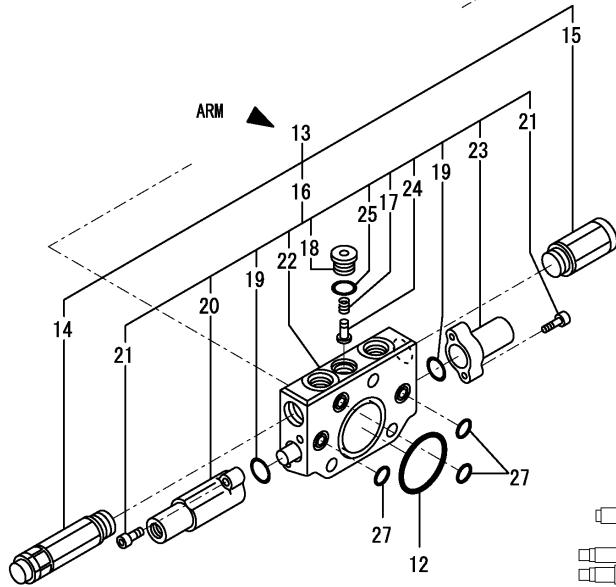
Fig.56. CONTROL VALVE(5/7)

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

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

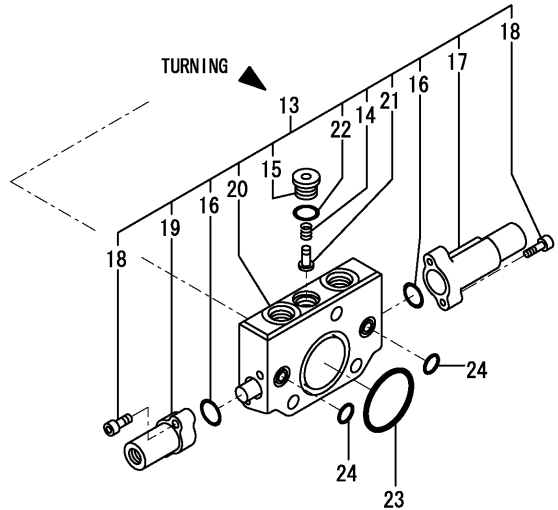
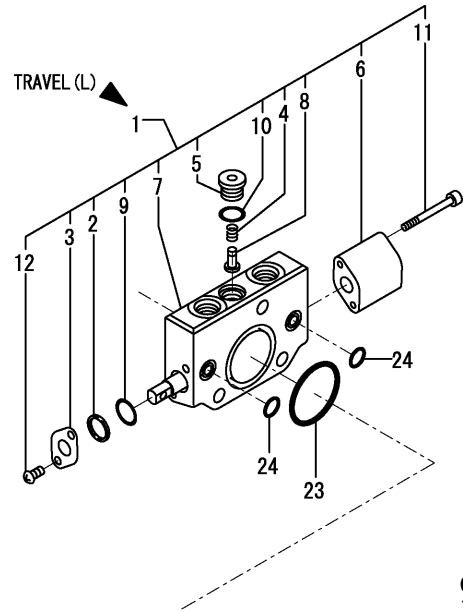


CONTROL VALVE ASSY  
 172448-74100  
 Fig. No. 52 Ref. No. 1  
 INC. Fig. 52 Ref. No. 2~11.  
 Fig. 53 Ref. No. 1~31.  
 Fig. 54 Fig. No. 1~28.  
 Fig. 55 Ref. No. 1~30.  
 Fig. 56 Fig. No. 1~27.  
 Fig. 57 Fig. No. 1~24.  
 Fig. 58 Fig. No. 1~20.



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						

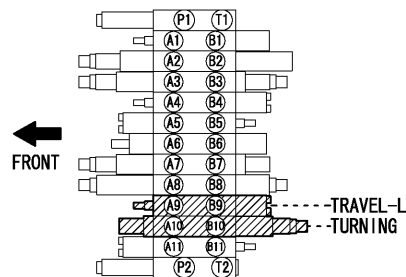
Fig.57. CONTROL VALVE(6/7)



CONTROL VALVE ASSY  
172448-74100

Fig. No. 52 Ref. No. 1

- INC. Fig. 52 Ref. No. 2~11.
- Fig. 53 Ref. No. 1~31.
- Fig. 54 Fig. No. 1~28.
- Fig. 55 Ref. No. 1~30.
- Fig. 56 Fig. No. 1~27.
- Fig. 57 Fig. No. 1~24.
- Fig. 58 Fig. No. 1~20.



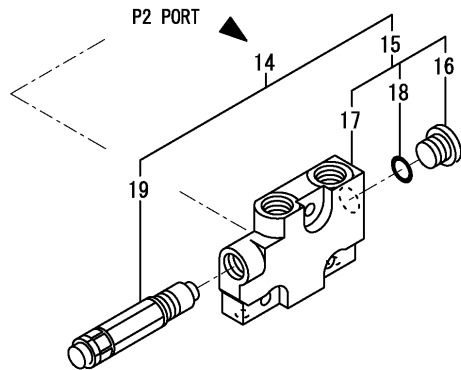
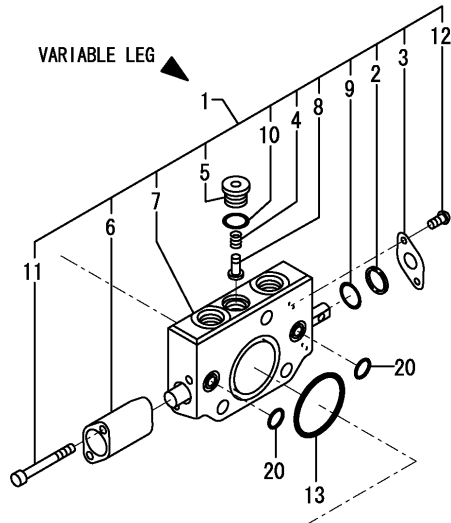
(A)=VIO15-2(US)  
(B)=VIO15-2(AS)  
(C)=

(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	2	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						



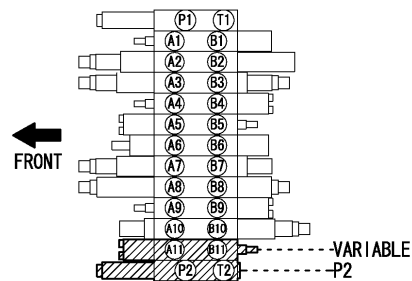
Fig.58. CONTROL VALVE(7/7)



**CONTROL VALVE ASSY**  
172448-74100

Fig. No. 52 Ref. No. 1

- INC. Fig. 52 Ref. No. 2~11.
- Fig. 53 Ref. No. 1~31.
- Fig. 54 Fig. No. 1~28.
- Fig. 55 Ref. No. 1~30.
- Fig. 56 Fig. No. 1~27.
- Fig. 57 Fig. No. 1~24.
- Fig. 58 Fig. No. 1~20.



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

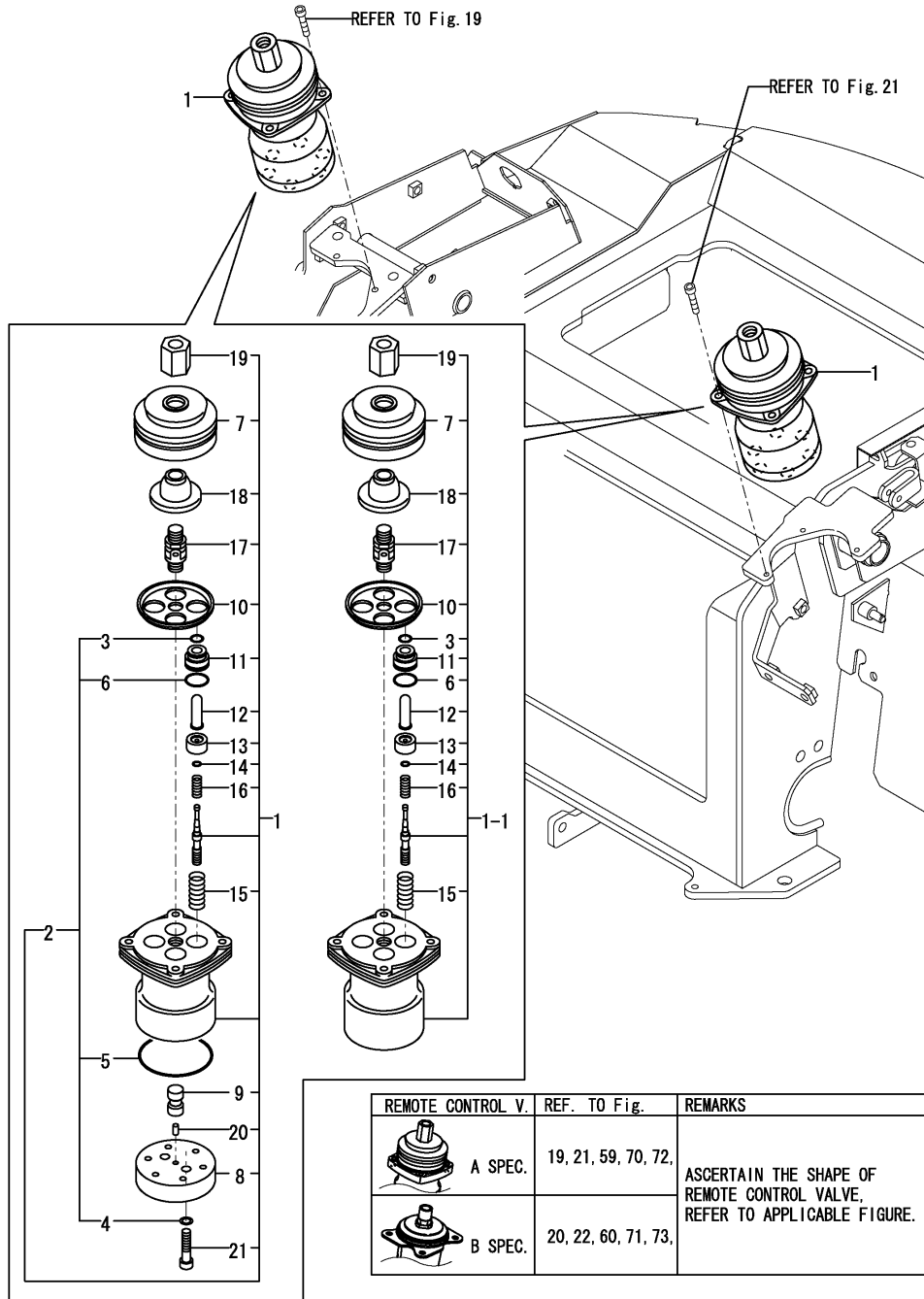
(D)=  
(E)=  
(F)=

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.59. REMOTE CONTROL VALVE(A-SPEC.)

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

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

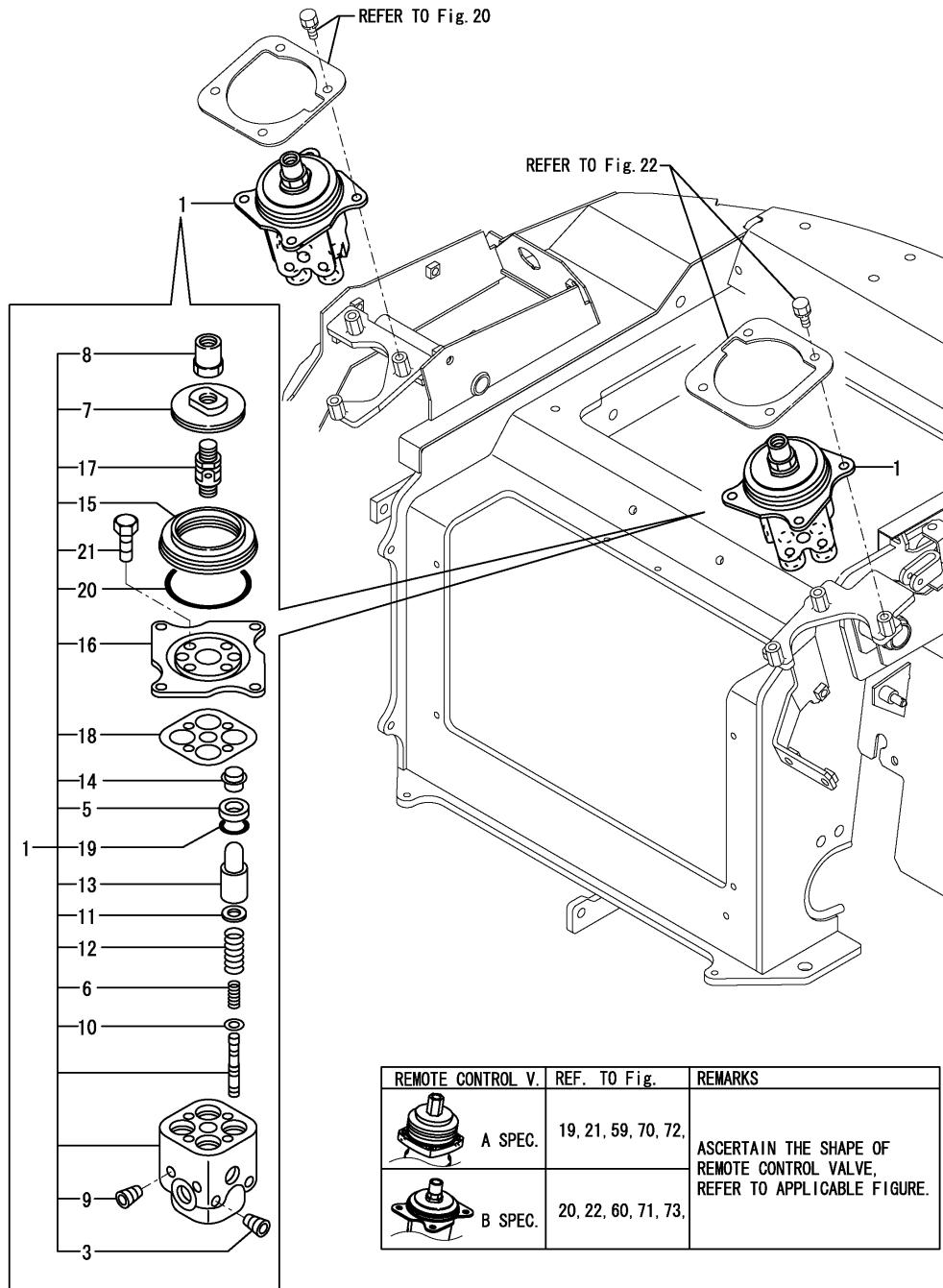


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-74700	VALVE ASSY,REM-CON.	2							
1-1	1	172448-74701	VALVE ASSY, REM-CON.	2	2						R
		(A=M/#20902)									
2	2	172448-74710	SEAL SET	2							Z
		(A=M/#20902)									
3	3	172448-74790	SEAL	8	8						
4	3	172448-74820	PACKING	4							Z
		(A=M/#20902)									
5	3	172448-74830	O-RING	2							Z
		(A=M/#20902)									
6	3	24315-000200	O-RING, 1BP20.0	8	8						
7	2	172455-74710	BELLOWS	2	2						
8	2	172448-74740	PLATE, RORT	2							Z
		(A=M/#20902)									
9	2	172448-74750	BUSH	2							Z
		(A=M/#20902)									
10	2	172448-74760	PLATE	2	2						
11	2	172448-74770	PLUG	8	8						
12	2	172448-74780	ROD Q,PUSH	8	8						
13	2	172448-74910	SEAT, SPRING	8	8						
14	2	172448-74920	WASHER	8	8						
15	2	172448-74930	SPRING	8	8						
16	2	172448-74940	SPRING	8	8						
17	2	172448-74950	JOINT	2	2						
18	2	172448-74960	PLATE, CIRCLE	2	2						
19	2	172448-74970	NUT, ADJUST	2	2						
20	2	22351-050010	PIN, SPRING 5.0X10	2							Z
		(A=M/#20902)									
21	2	26450-080352	BOLT, M8X 35	4							Z
		(A=M/#20902)									

Fig.60. REMOTE CONTROL VALVE(B-SPEC.)

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

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



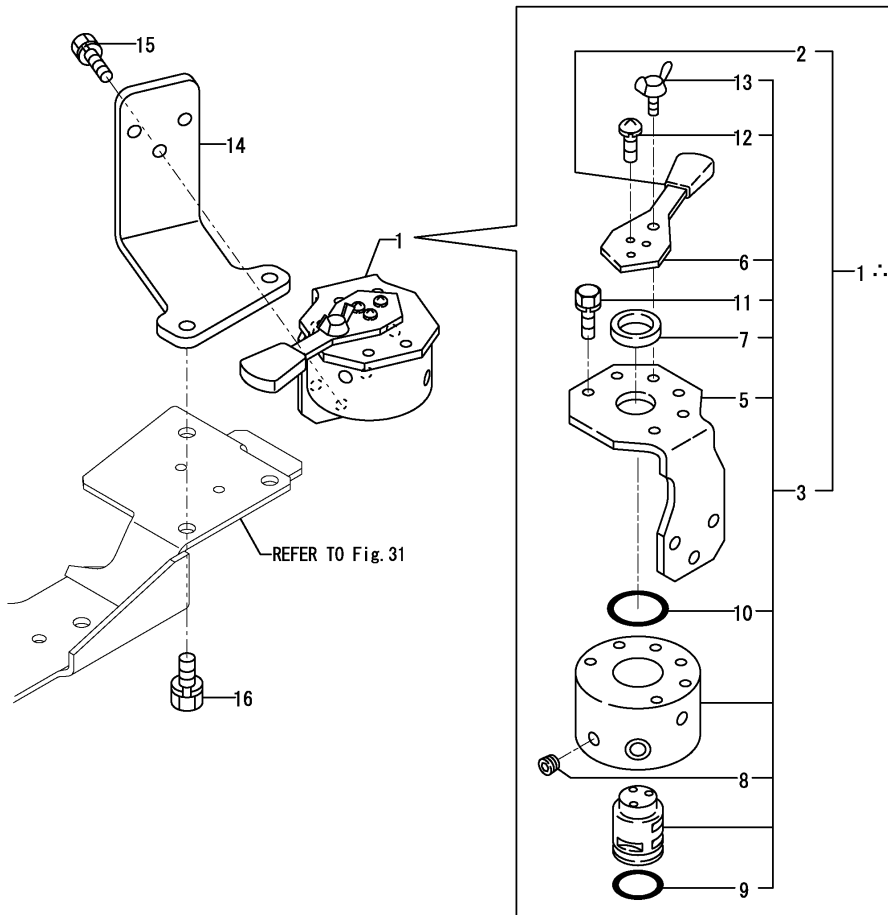
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172449-74600	REMOTE CONTROL VALVE	2	2						
3	2	172164-74560	PLUG	4	4						
5	2	172164-74610	COLLAR	8	8						
6	2	172449-74610	SPRING	8	8						
7	2	172164-74620	DISK	2	2						
8	2	172164-74630	NUT	2	2						
9	2	172164-74650	PLUG	4	4						
10	2	172151-74860	SHIM(COUNT. SET	8	8						
11	2	172151-74880	RETAINER	8	8						
12	2	172151-74890	SP (SYN.	8	8						
13	2	172151-74900	PISTON	8	8						
14	2	172151-74910	SEAL	8	8						
15	2	172151-74930	BOOT	2	2						
16	2	172151-74940	PLATE	2	2						
17	2	172151-74950	UNION	2	2						
18	2	172151-74980	PLATE	2	2						
19	2	24311-000200	O-RING, 1AP20.0	8	8						
20	2	24311-000700	O-RING, 1AP70.0	2	2						
21	2	26116-060202	BOLT, M6X 20 PLATED	8	8						

Fig.61. 2-WAY VALVE

P/C NEWS No:Y00S4181-1  
PUBLISHED:2007/06

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

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



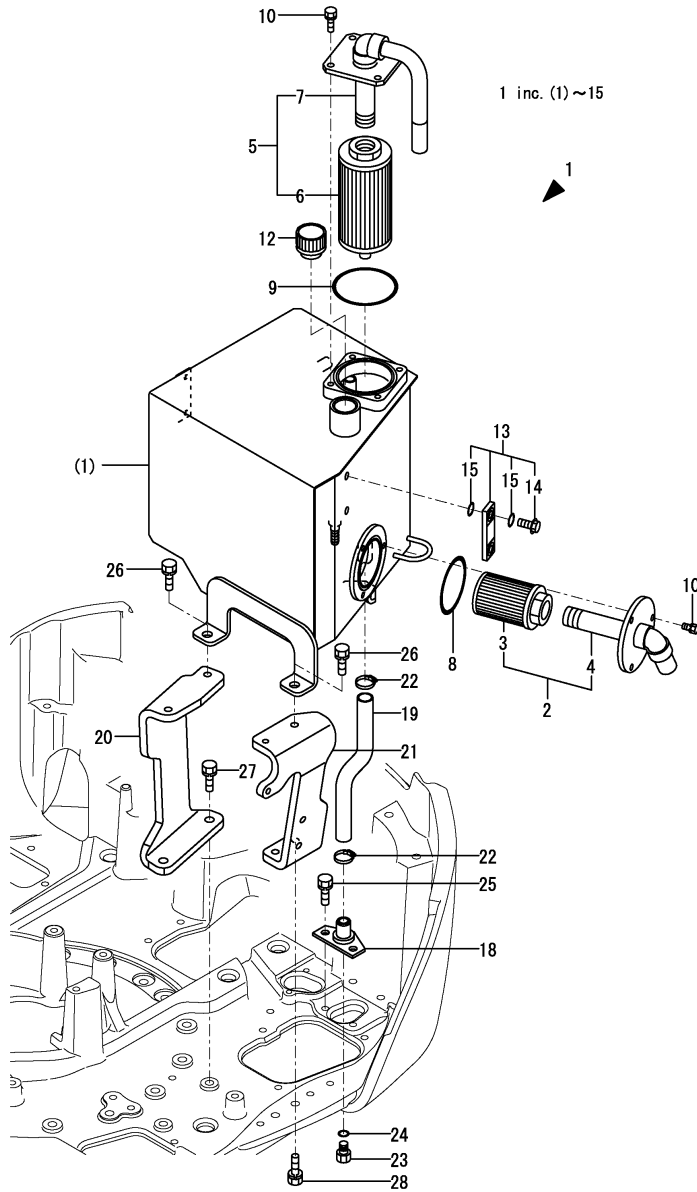
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172437-74690 (A=XXX) (B=XXX)	VALVE ASSY,2WAY	1	1						W
2	2	194273-47910	KNOB, LEVER	1	1						
3	2	172437-74701	VALVE ASSY,2WAY	1	1						
5	3	172437-74731	STAY ASSY	1							
5-1	3	172437-74732	STAY ASSY	1	1						N
(A=M/#26043)											
6	3	172437-74750	LEVER	1	1						
7	3	22137-240000	WASHER, 24	1	1						
8	3	23871-010000	PLUG, R01	4	4						
9	3	24311-000250	O-RING, 1AP25.0	1	1						
10	3	24311-000320	O-RING, 1AP32.0	1	1						
11	3	26013-060162	BOLT, M6X 16	4	4						
12	3	26022-050122	SCREW, M5X12	3	3						
13	1	26647-060202	BOLT, WING M6X20	1	1						
14	1	172448-74900	BRACKET,2WAY	1	1						
15	1	26013-080252	BOLT, M8X 25	3	3						
16	1	26013-100202	BOLT, M10X 20	2	2						

∴ MARKED PART HAS BEEN CHANGED (ADDED) .

Fig.62. HYD. OIL TANK

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

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772448-75100	TANK ASSY, RESERVOIR	1	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	172448-75410	STAY, RESERVOIR	1							
21-1	1	172448-75411	STAY, RESERVOIR	1	1						N
		(A=M/#26118)									
22	1	23000-025000	CLAMP, 25		2						
22-1	1	23001-025000	CLAMP, HOSE 25		2	2					N
		(A=M/#20501)									
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	172437-03320	LABEL,HYD.OIL TANK	1							2
29A-1	1	172437-03321	LABEL,HYD.OIL TANK	1							R 2
		(A=M/#21339)									
29A-2	1	172437-03322	LABEL, HYD.OIL TANK	1	1						N 2
		(A=M/#20870)									

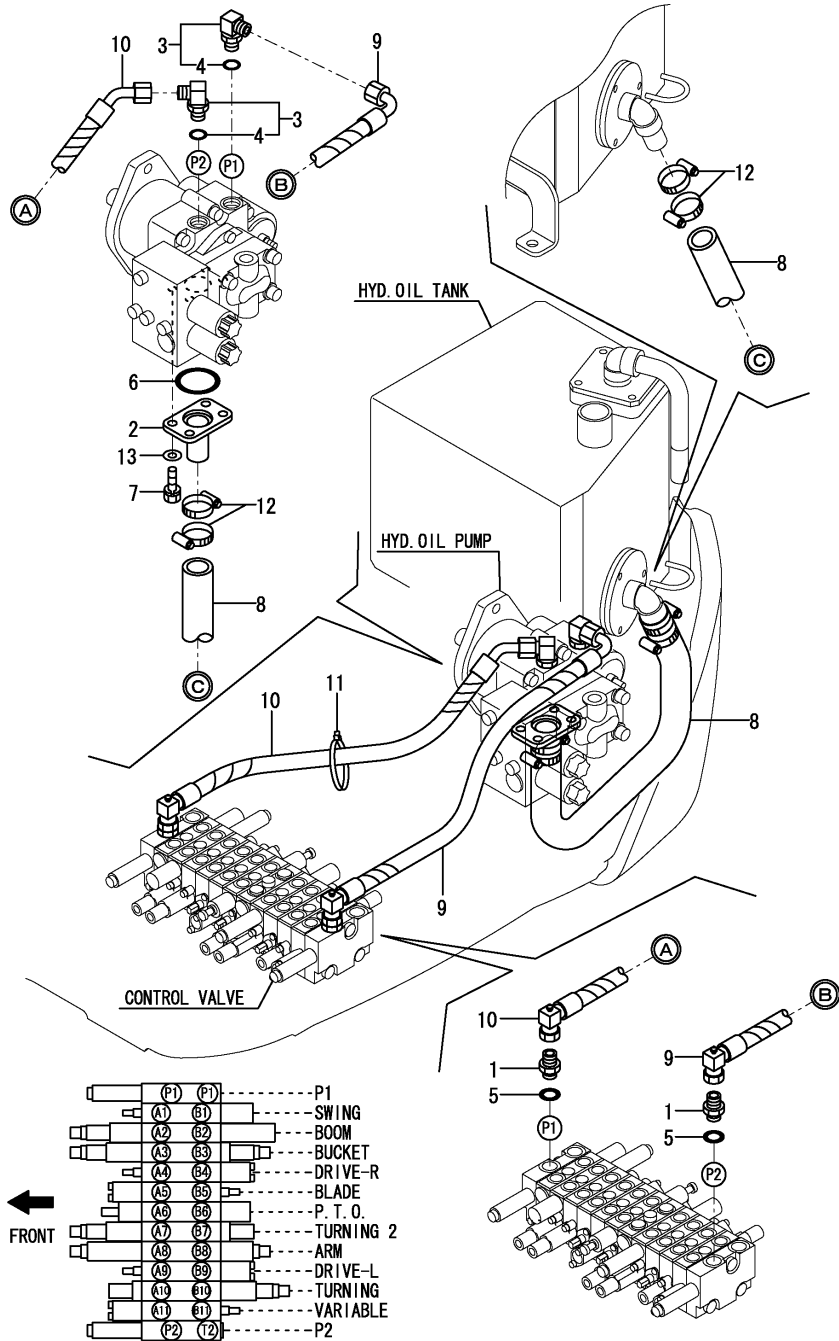
Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABEL AT THE SAME TIME. REFER NO.29A
- (2)LABEL IS NOT ILLUSTRATED.

Fig.63. HYD.OIL PIPING(TANK - PUMP - CONTROL VALVE)

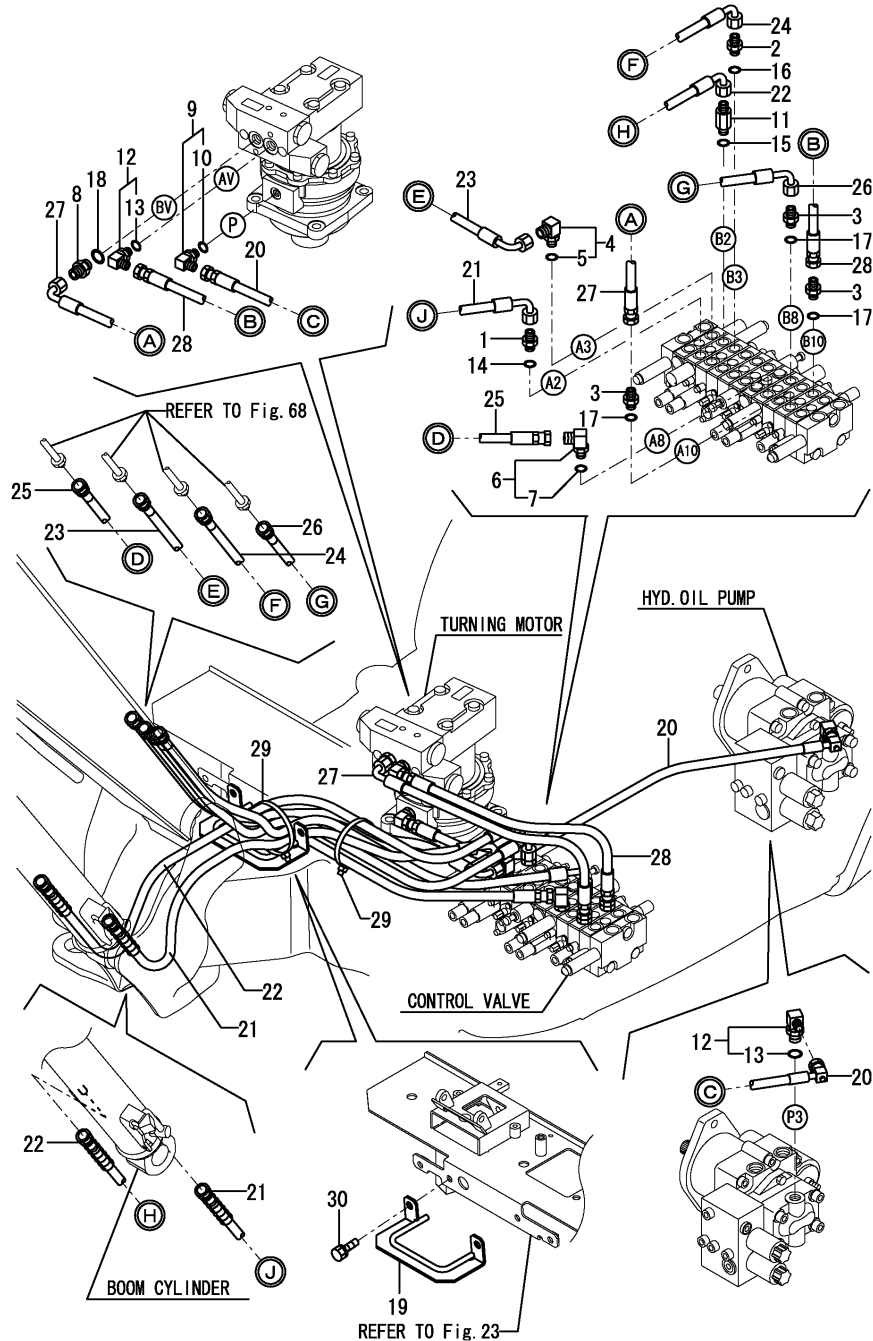
(A)=VIO15-2(US)  
(B)=VIO15-2(AS)  
(C)=

(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	23000-041000	CLAMP, 41	4							
12-1	1	23001-041000	CLAMP, HOSE 41	4	4						N
		(A=M/#20501)									
13	1	22117-100000	WASHER, 10	4	4						W
		(A=XXX)									

Fig.64. HYD.OIL PIPING(PUMP, CONTROL VALVE - MOTOR, BOOM)



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

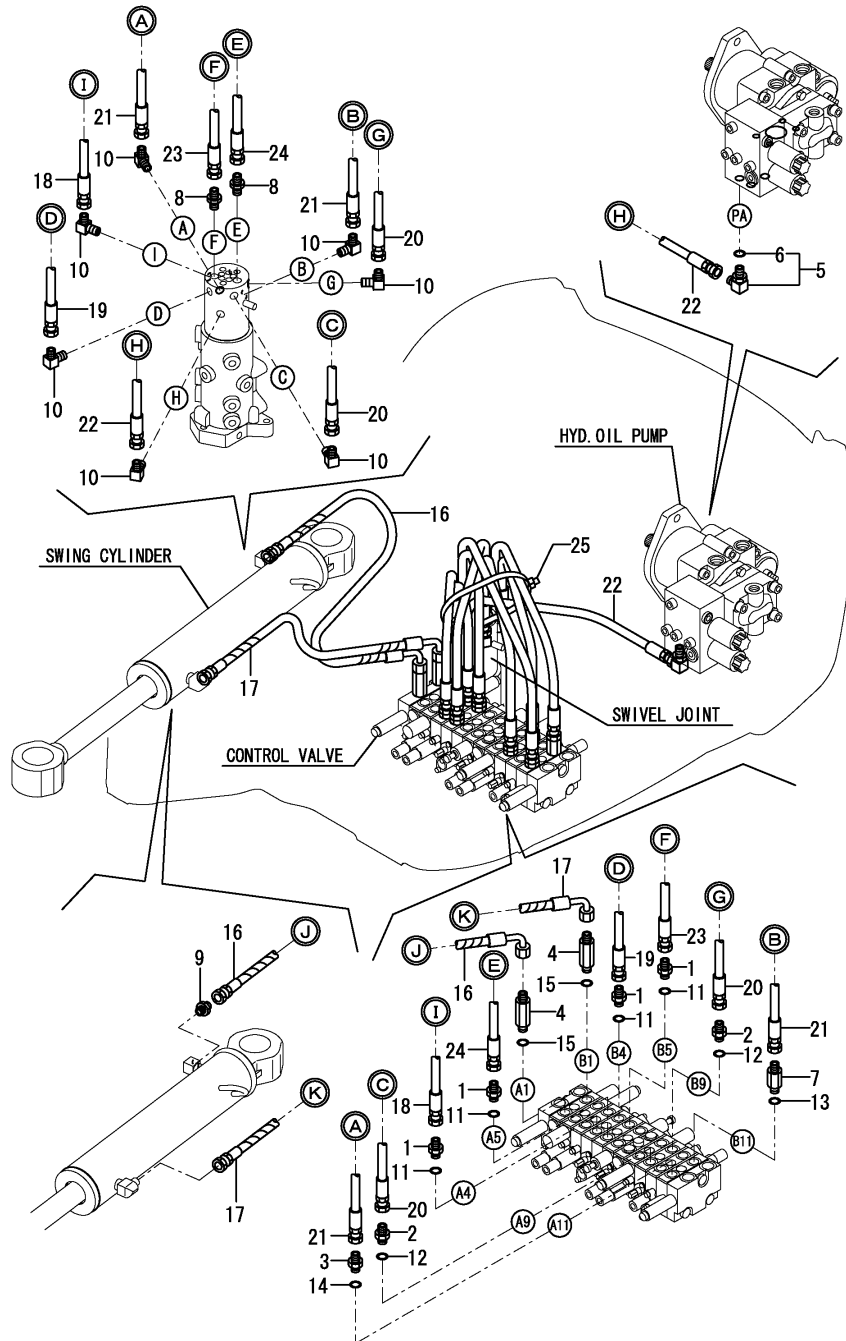
(D)=  
 (E)=  
 (F)=

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	172173-76120	CONNECTOR ASSY	1							
4-1	1	172173-76121	CONNECTOR ASSY	1	1						R
(A=M/#25852)											
5	2	24315-000110	O-RING, 1BP11.0	1	1						
6	1	172173-76120	CONNECTOR ASSY	1							
6-1	1	172173-76121	CONNECTOR ASSY	1	1						R
(A=M/#25852)											
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						
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.65. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT, SWING CYLINDER)

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

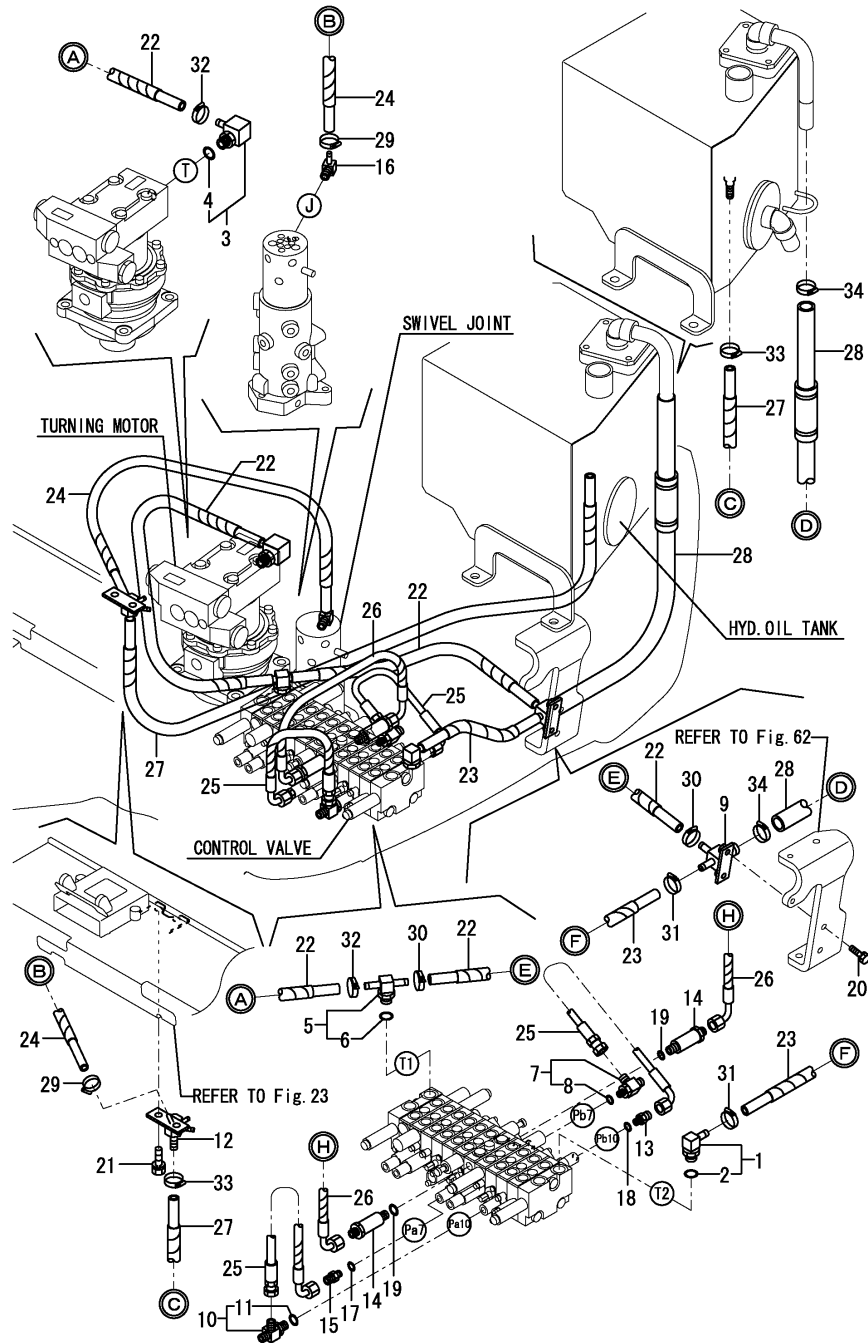
(D)=  
 (E)=  
 (F)=



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.66. HYD.OIL PIPING(RETURN)



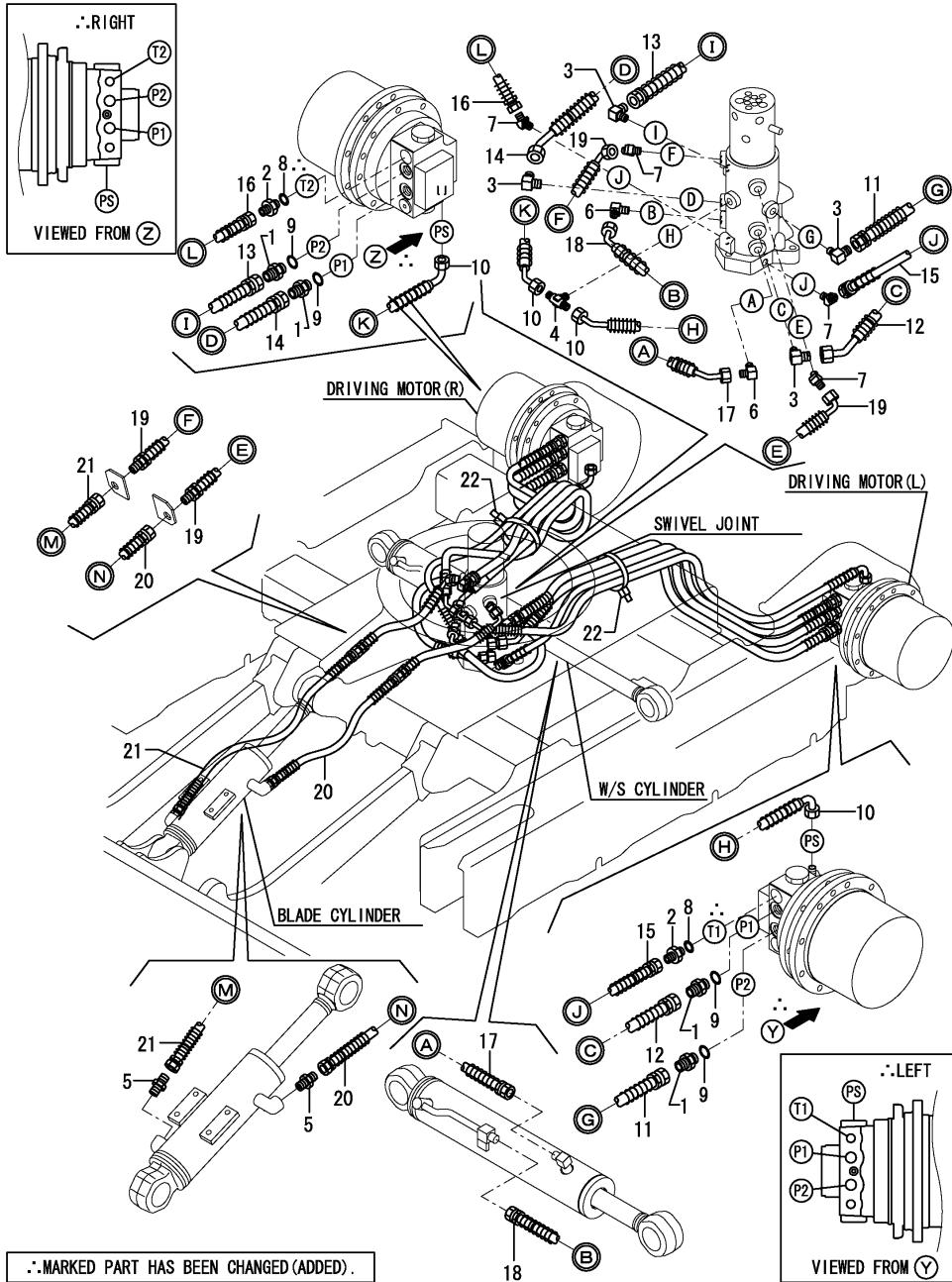
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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.67. HYD.OIL PIPING(TRACK FRAME)

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PUBLISHED: 2008/05



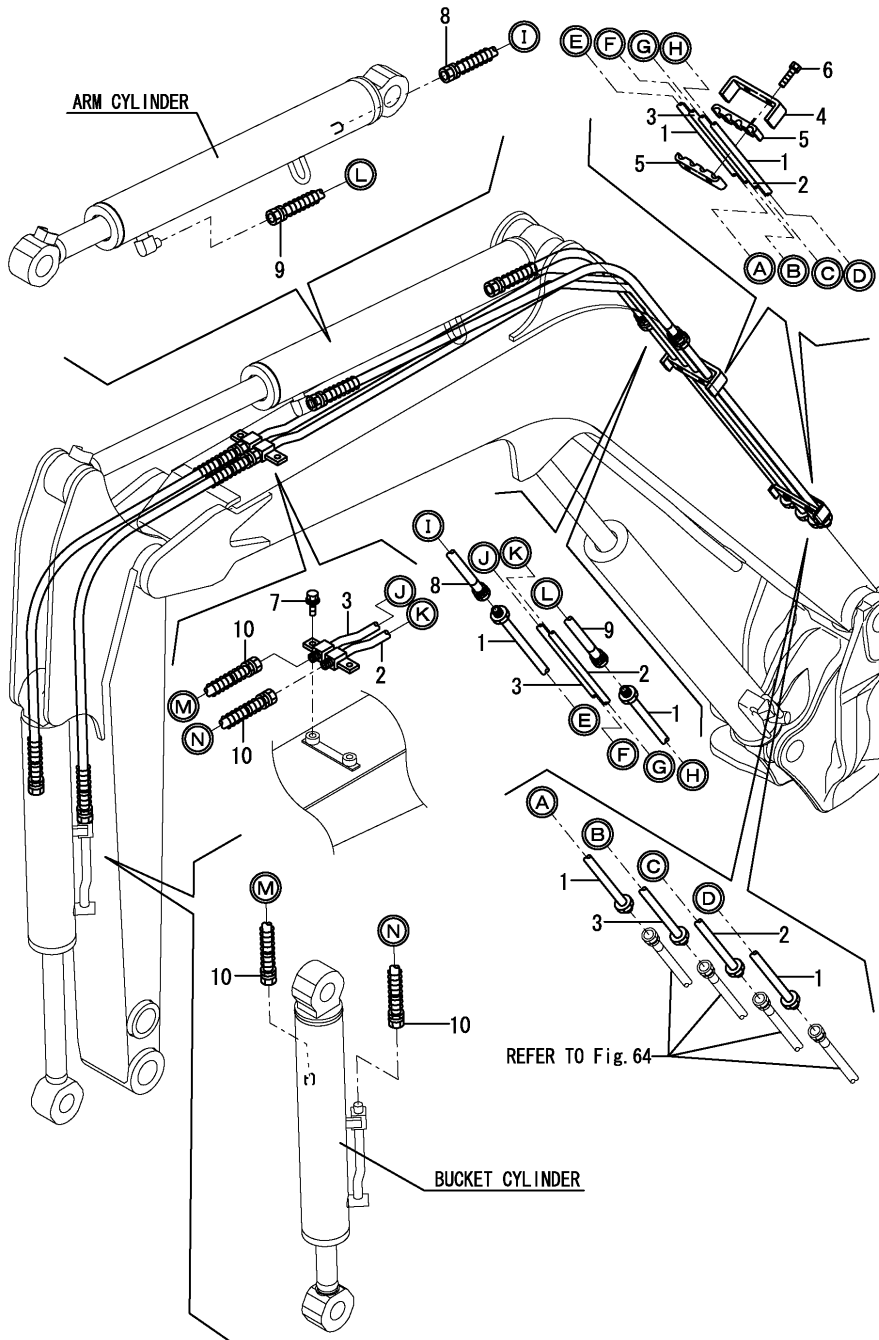
(A)=VIO15-2(US)  
(B)=VIO15-2(AS)  
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	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.68. HYD.OIL PIPING(BOOM)

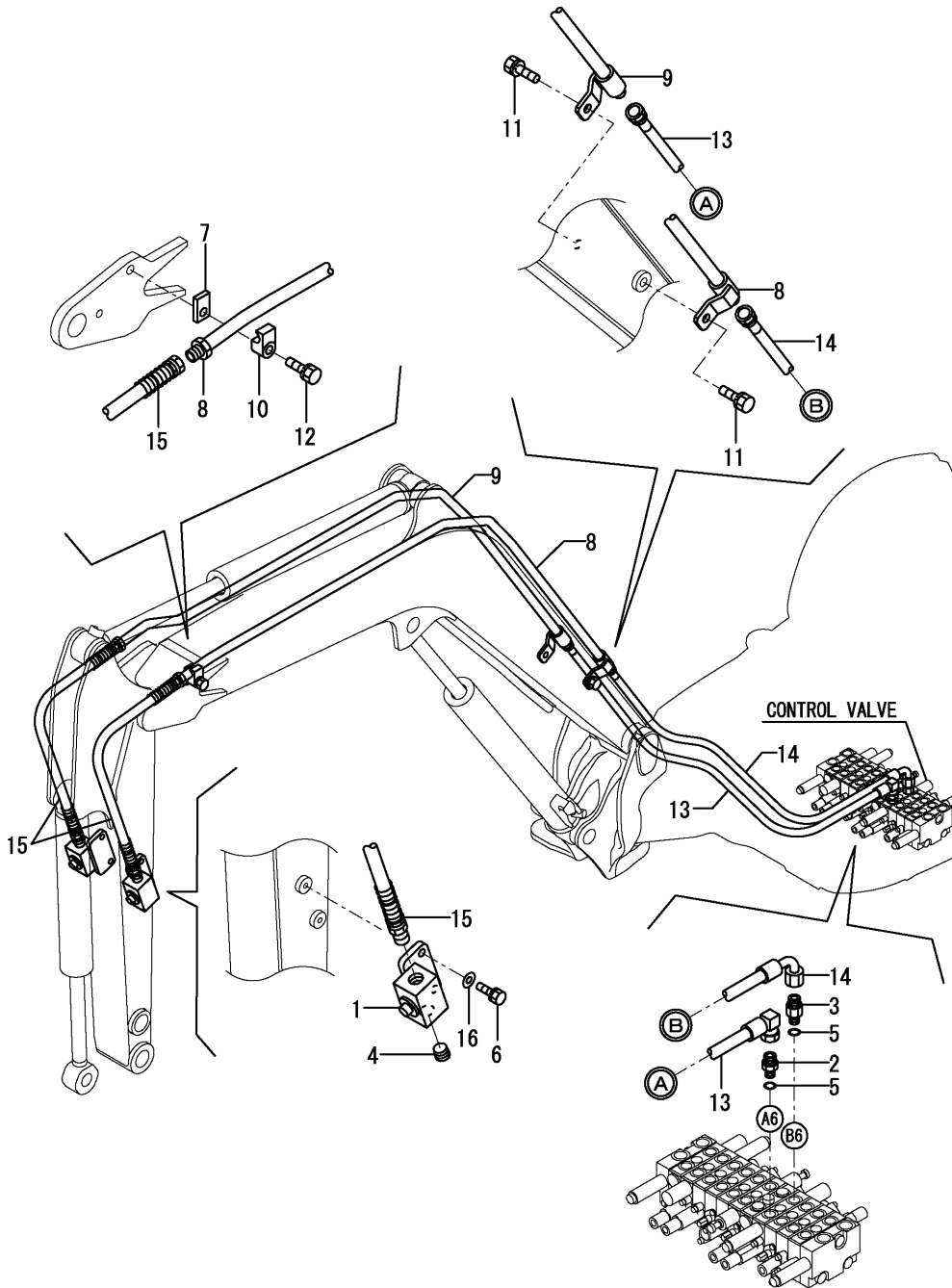


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

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



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

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



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

(A=M/#26346)

Fig.70. CONTROL PIPING(PUMP - CONTROL VALVE - RETURN : A-SPEC.)

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

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

REMOTE CONTROL V.	REF. TO Fig.	REMARKS
 A SPEC.	19, 21, 59, 70, 72.	ASCERTAIN THE SHAPE OF REMOTE CONTROL VALVE, REFER TO APPLICABLE FIGURE.
 B SPEC.	20, 22, 60, 71, 73.	

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						

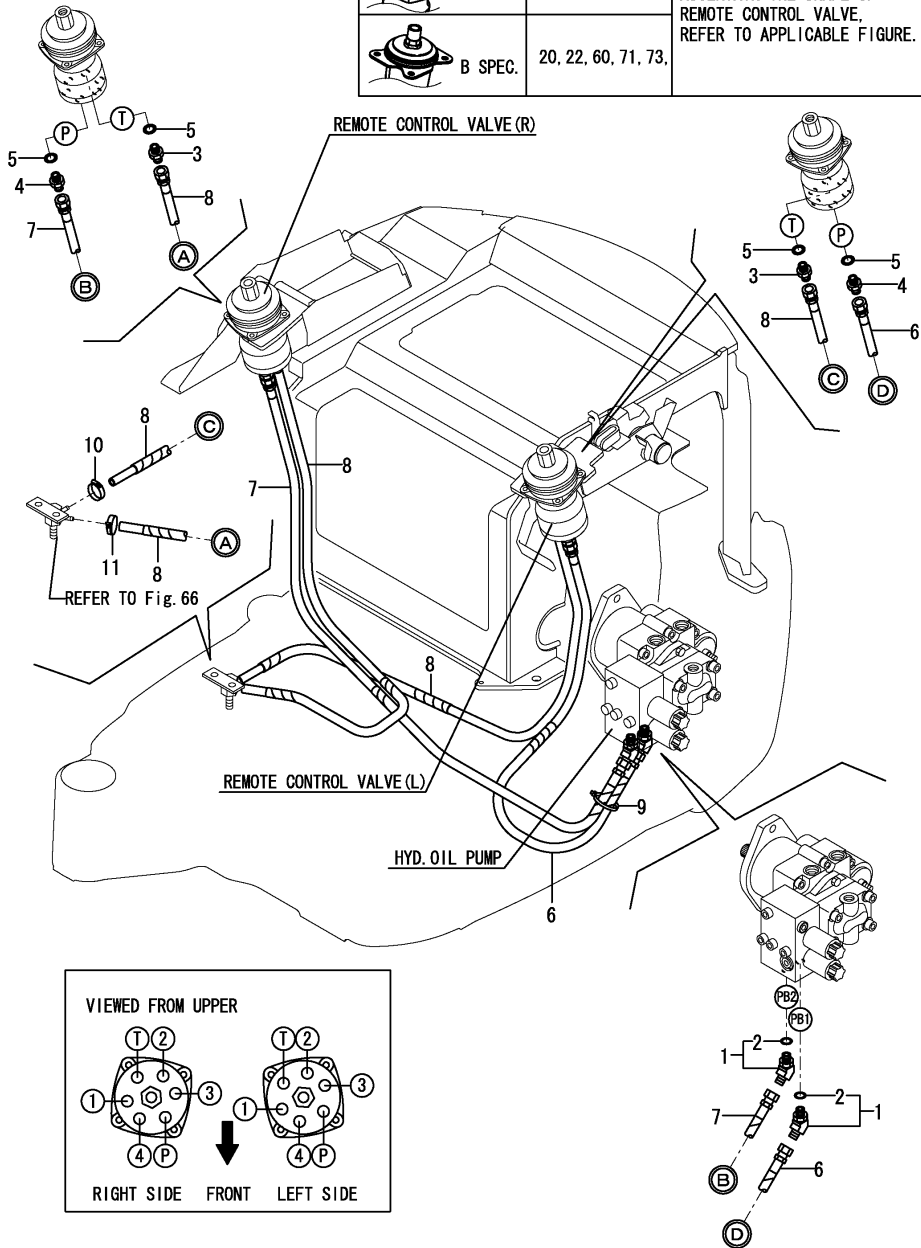


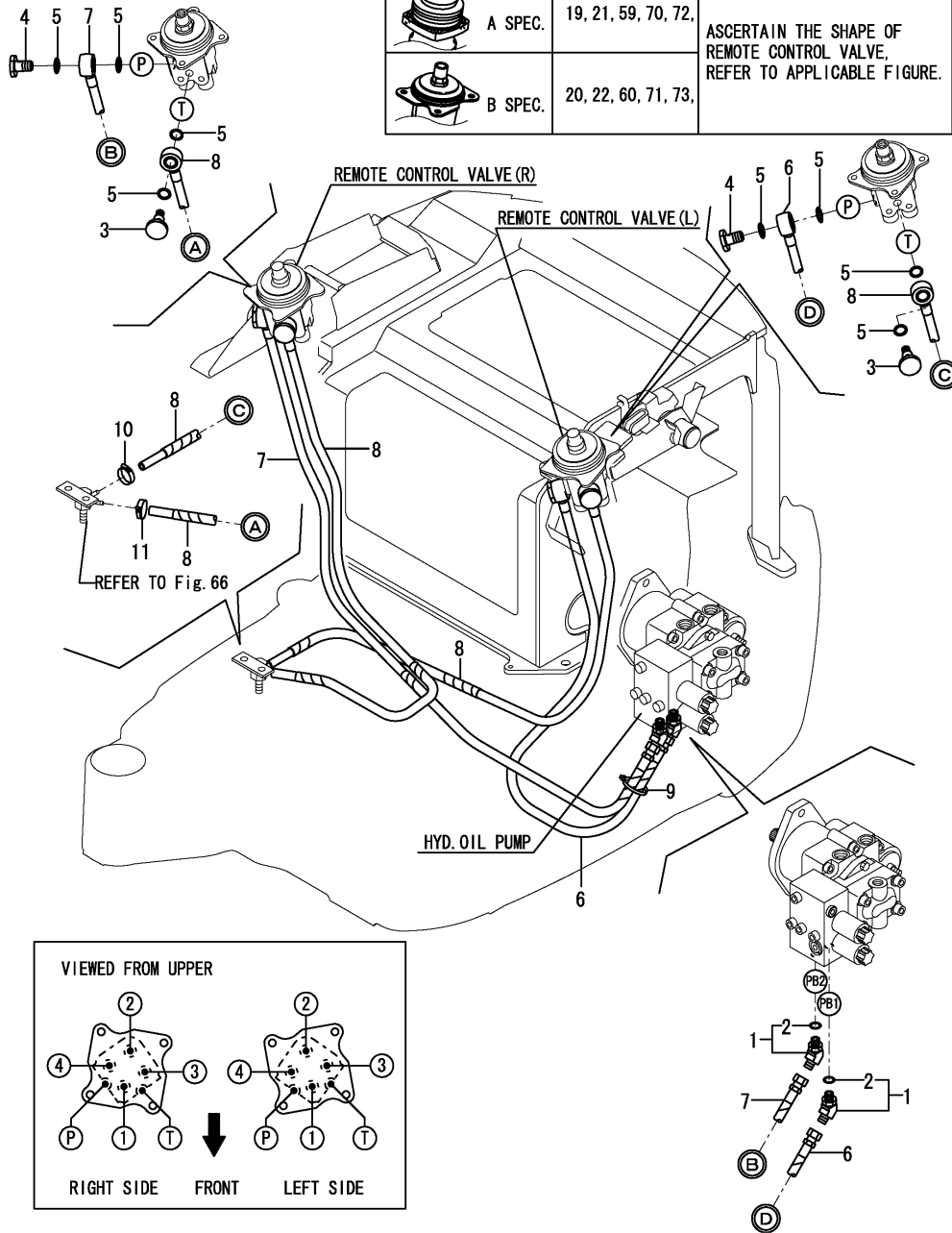


Fig.71. CONTROL PIPING(PUMP - CONTROL VALVE - RETURN : B-SPEC.)

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

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

REMOTE CONTROL V.	REF. TO Fig.	REMARKS
 A SPEC.	19, 21, 59, 70, 72,	ASCERTAIN THE SHAPE OF REMOTE CONTROL VALVE, REFER TO APPLICABLE FIGURE.
 B SPEC.	20, 22, 60, 71, 73,	





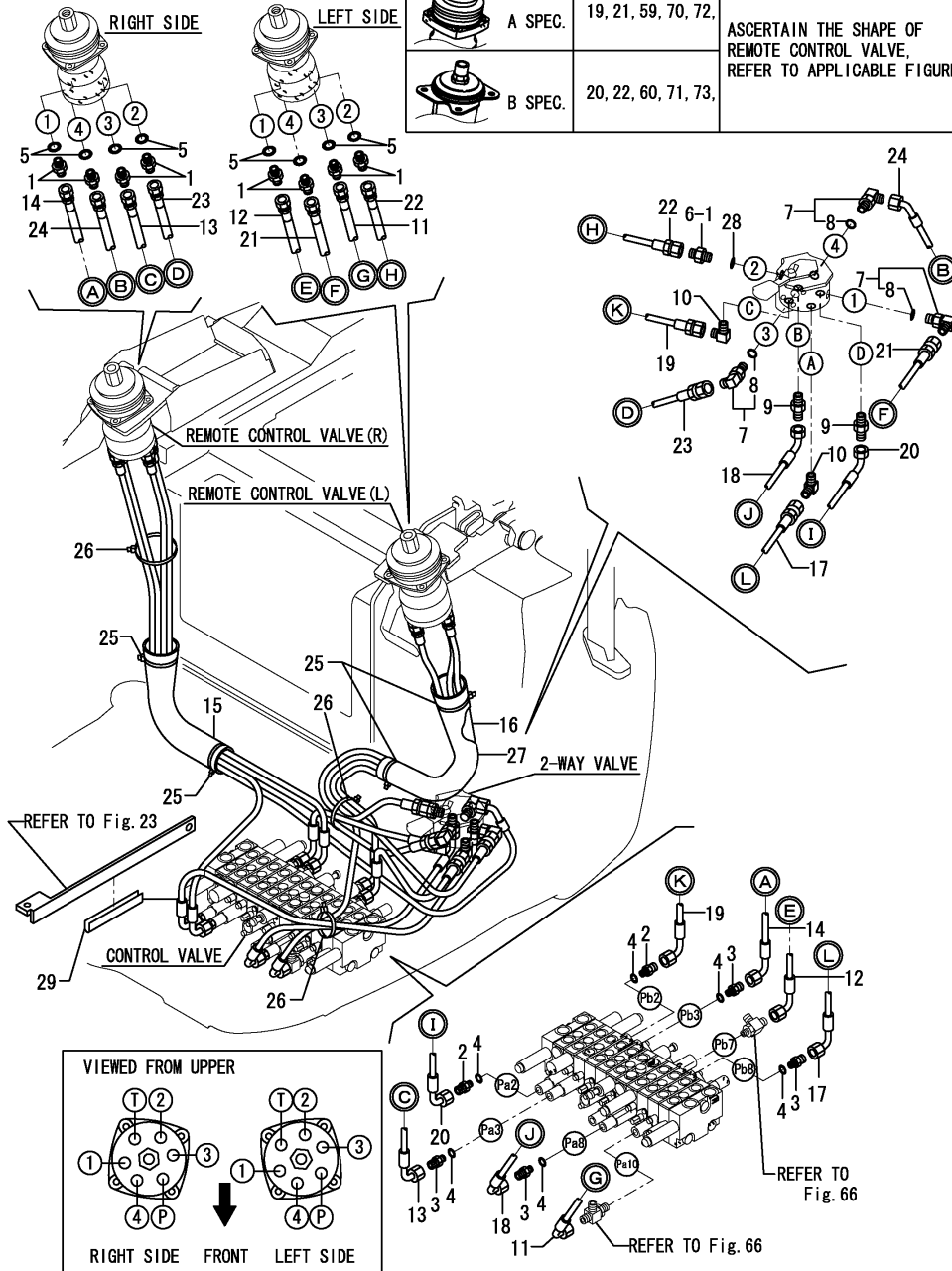
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-76101	CONNECTOR ASSY	2	2						
2	2	24315-000110	O-RING, 1BP11.0	2	2						
3	1	172151-76040	BOLT, PIPE JOINT	2	2						
4	1	172151-76030	BOLT, PIPE JOINT	2	2						
5	1	24315-000180	O-RING, 1BP18.0	8	8						
6	1	172448-79310	HOSE F404BW149S	1	1						
7	1	172448-79320	HOSE F404BW135S	1	1						
8	1	172448-79330	HOSE G604WY109	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.72. CONTROL PIPING(REMOTE C/V - 2WAY V. - CONTROL V. : A-SPEC.)

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

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

REMOTE CONTROL V.	REF. TO Fig.	REMARKS
 A SPEC.	19, 21, 59, 70, 72,	ASCERTAIN THE SHAPE OF REMOTE CONTROL VALVE, REFER TO APPLICABLE FIGURE.
 B SPEC.	20, 22, 60, 71, 73,	



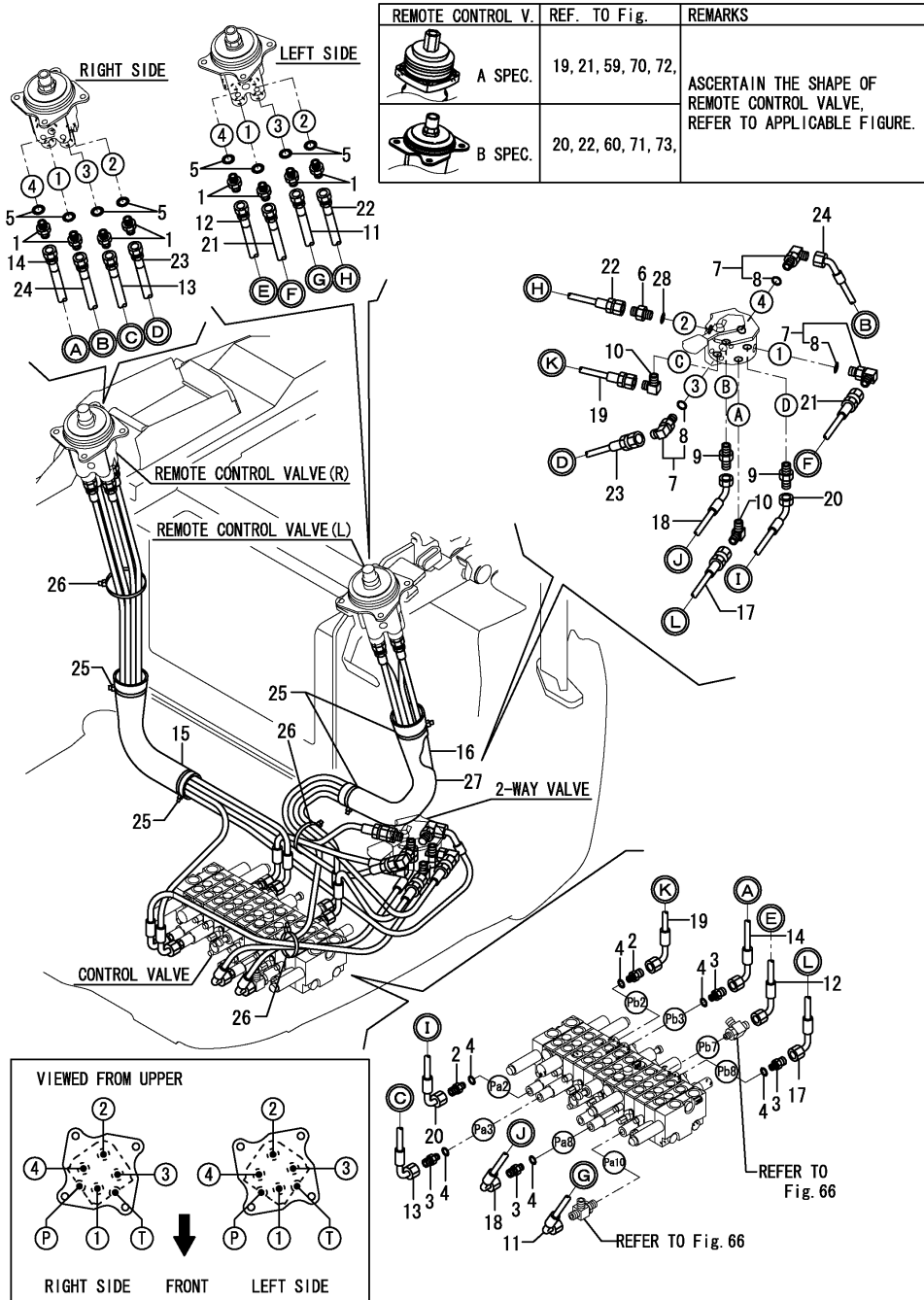
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	8	8						
2	1	172448-76160	CONNECTOR, 0.6	2	2						
3	1	172447-76210	JOINT, G1/8-G1/4	4	4						
4	1	24315-000080	O-RING, 1BP8.0	6	6						
5	1	24315-000110	O-RING, 1BP11.0	8	8						
6-1	1	172123-76121	ADAPTER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

(A=XXX) (B=XXX)

Fig.73. CONTROL PIPING(REMOTE C/V - 2WAY V. - CONTROL V. : B-SPEC.)

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

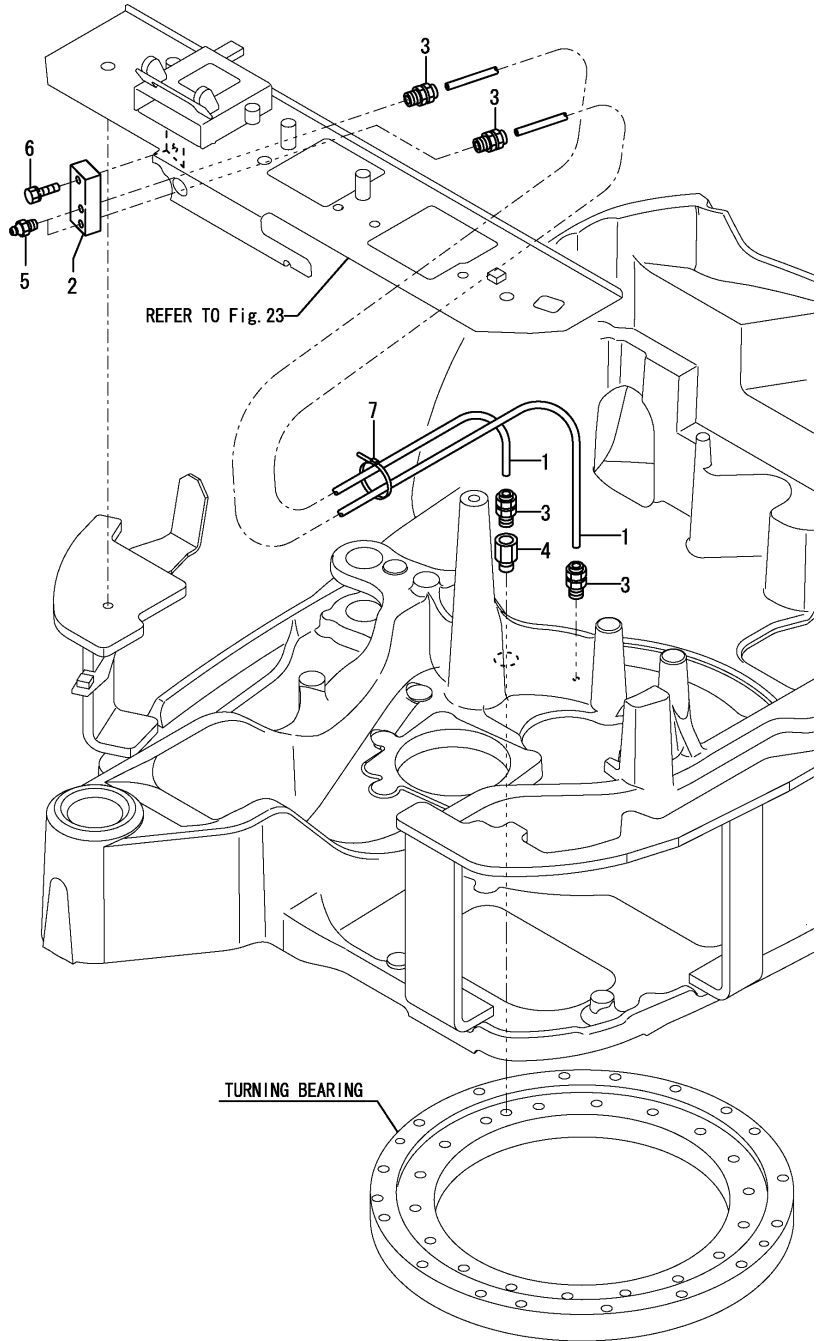
(D)=  
(E)=  
(F)=



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	172448-78600	HOSE F403BC123	1	1						
12	1	172478-78630	HOSE F403BC089	1	1						
13	1	172448-78650	HOSE F403BC110	1	1						
14	1	172448-78660	HOSE F403BC110	1	1						
15	1	172142-78810	COVER, HOSE	1	1						
16	1	172448-78990	SPONGE, HOSE 400	1	1						
17	1	172448-79210	HOSE F403BC039	1	1						
18	1	172448-79220	HOSE F403CC047S	1	1						
19	1	172448-79230	HOSE F403BC029	1	1						
20	1	172448-79240	HOSE F403CC066S	1	1						
21	1	172448-79250	HOSE F403BB110	1	1						
22	1	172448-79260	HOSE F403BB079	1	1						
23	1	172448-79270	HOSE F403BB108	1	1						
24	1	172448-79280	HOSE F403BE135S	1	1						
25	1	172122-79930	CLAMP, HOSE	4	4						
26	1	172122-79930	CLAMP, HOSE	3	3						
27	1	172448-79950	COVER, HOSE	1	1						
28	1	24315-000110	O-RING, 1BP11.0	1	1						



Fig.74. GREASING

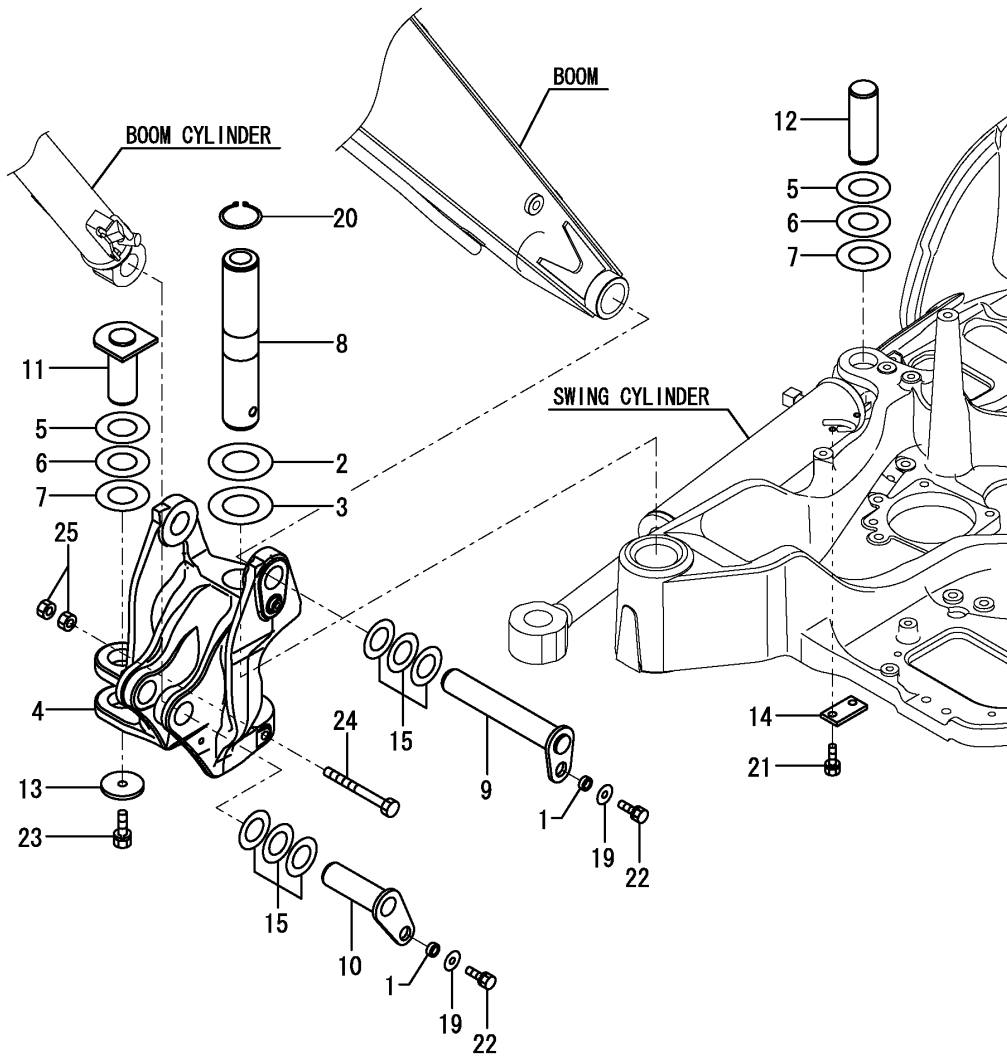


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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.75. BOOM BRACKET

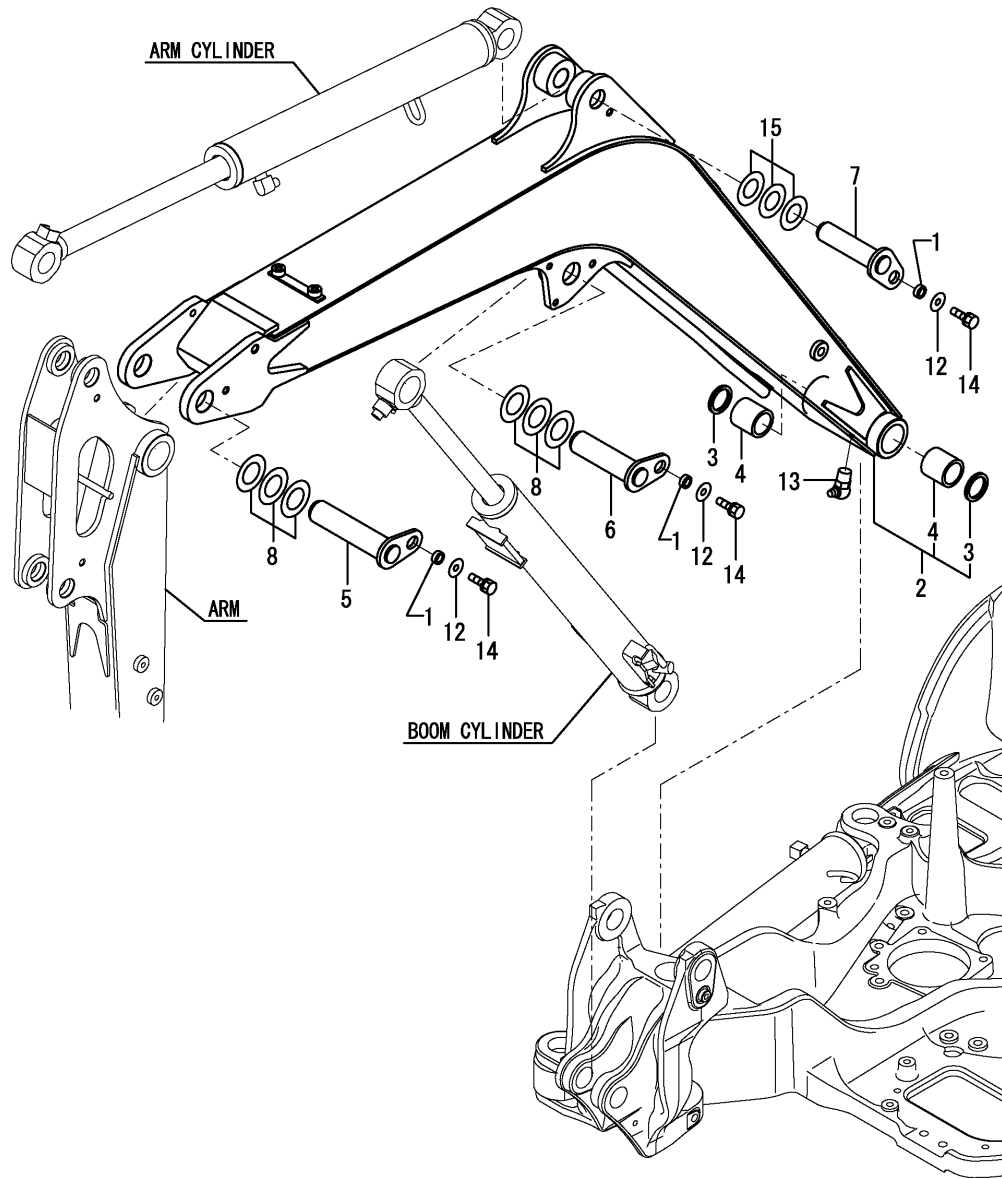


(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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	172173-81700	SHIM, 50X90X0.8	1							
2-1	1	172165-82530	SHIM	1	1						R
(A=M/#21434)											
3	1	172173-81710	SHIM, 50X90X0.5	1							
3-1	1	172165-82520	SHIM	1	1						R
(A=M/#21434)											
4	1	172448-82301-1	BRACKET,BOOM (87)	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	172448-82650	PIN 50X282	1	1						
9	1	172448-82670	PIN 35X217	1	1						
10	1	172448-82730	PIN 35X110	1	1						
11	1	172448-82880	PIN 40X96	1	1						
12	1	172448-82900	PIN 40X120	1	1						
13	1	172146-82910	SPACER	1	1						
14	1	172117-83970-6	PLATE(C),LOCK (82)	1	1						
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.76. BOOM



(A)=VIO15-2(US)  
 (B)=VIO15-2(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
3	2	172448-81610	SEAL, DUST 35X45X4	2	2						
4	2	172141-82270	BUSH 35 45	2	2						
5	1	172448-82700	PIN 35X155	1	1						
6	1	172448-82760	PIN 35X127	1	1						
7	1	172448-82790	PIN 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	172437-03460	LABEL, BOOM	2							2
19A-1	1	172437-03461	LABEL, BOOM US	2	2						N 2

(A=M/#20870)

Remarks

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

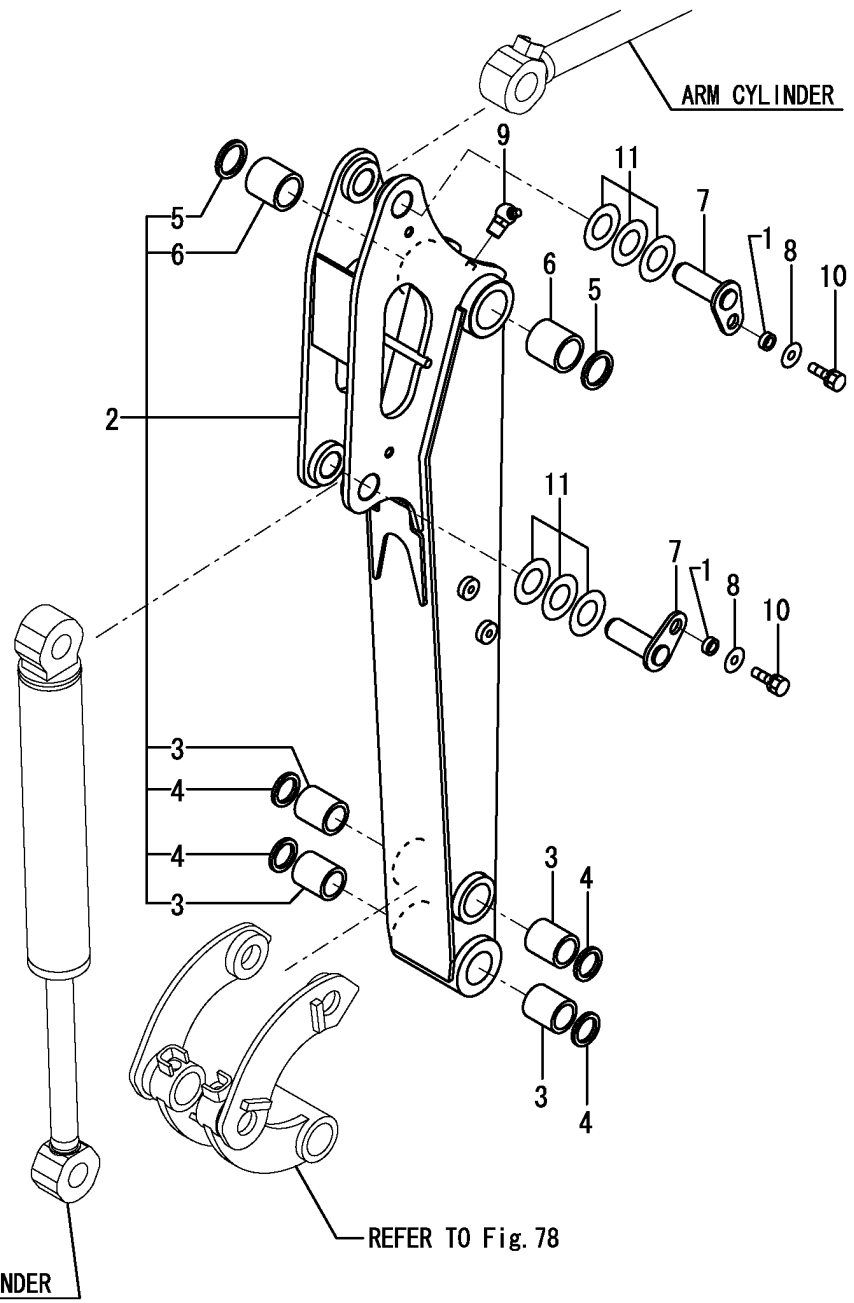
REFER NO.19A

(2)LABEL IS NOT ILLUSTRATED.

Fig.77. ARM

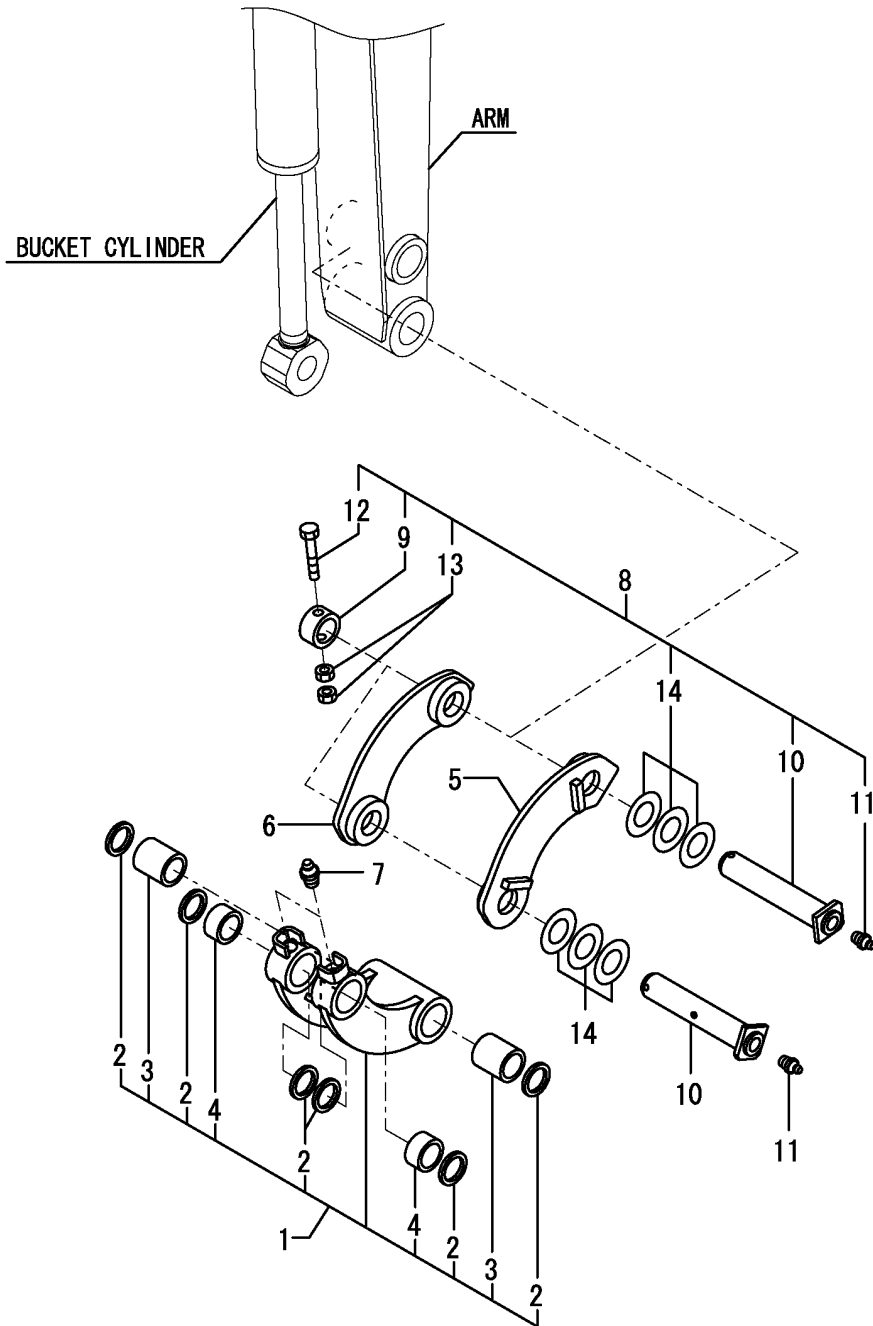
(A)=VIO15-2(US)  
 (B)=VIO15-2(AS)  
 (C)=

(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	172448-81500-1	ARM ASSY	1	1						
3	2	172137-81300	BUSH 30X45, PIN	4	4						
4	2	172448-81600	SEAL, DUST 30X40X4	4	4						
5	2	172448-81610	SEAL, DUST 35X45X4	2	2						
6	2	172141-82270	BUSH 35 45	2	2						
7	1	172448-82820	PIN 30X87	2	2						
8	1	22157-100000	WASHER, 10	2	2						
9	1	24761-040000	NIPPLE, GREASE B	1	1						
10	1	26013-100252	BOLT, M10X 25	2	2						
11	1	933160-06711	SHIM ASSY	2	2						

Fig.78. BUCKET ARM & LINK



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

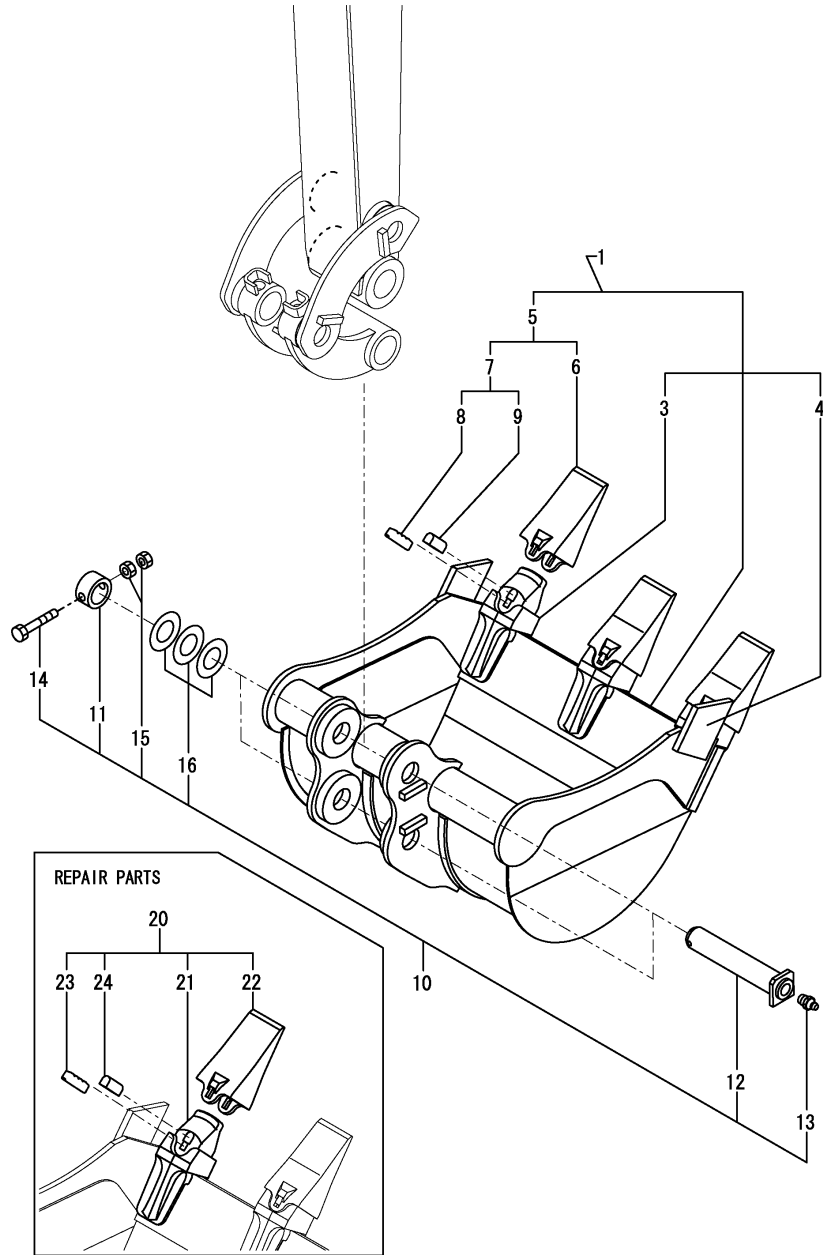
(D)=  
 (E)=  
 (F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-84404-4	LINK ASSY,BUCKET(87)	1							
1-1	1	172448-81400	LINK, BUCKET (97)	1	1						R
(A=M/#21145)											
2	2	172183-72290	SEAL, DUST 30X40X4.2	6							
2-1	2	172448-81600	SEAL, DUST 30X40X4	6	6						R
(A=M/#20941)											
3	2	172137-81300	BUSH 30X45, PIN	2	2						
4	2	172137-84451	BUSH	2	2						
5	1	172448-84500-1	ARM, BUCKET	1	1						
6	1	172448-84510-1	ARM, BUCKET	1	1						
7	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
8	1	172137-99451	PIN KIT, BUCKET	2	2						
9	2	172149-83220	COLLAR, 30X42.7X22	2	2						
10	2	172137-86251	PIN, BUCKET	2	2						
11	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
12	1	26116-100602	BOLT, M10X 60 PLATED	2	2						
13	2	26716-100002	NUT, M10	4	4						
14	2	933160-06711	SHIM ASSY	2	2						

Fig.79. BUCKET

(A)=VIO15-2(US)  
 (B)=VIO15-2(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							
3	3	172448-82530-1	ADAPTER	3							
4	3	172137-86240-1	CUTTER, SIDE	2							
5	2	172448-82950	TOOTH KIT, POINT	3							W
		(A=XXX)									
6	3	172448-82570-1	TOOTH, POINT	3							
7	3	172448-82960	PIN ASSY, LOCK	3							W
		(A=XXX)									
8	4	172448-82580	PIN, LOCK	3							
9	4	172448-82590	RUBBER, PIN	3							
10	1	172137-99451	PIN KIT, BUCKET	2	2						
11	2	172149-83220	COLLAR, 30X42.7X22	2	2						
12	2	172137-86251	PIN, BUCKET	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	772448-82530-2	TOOTH ASSY	3							1
21	2	172448-82530	ADAPTER	3							
22	2	172448-82570	TOOTH, POINT	3							
23	2	172448-82580	PIN, LOCK	3							
24	2	172448-82590	RUBBER, PIN	3							

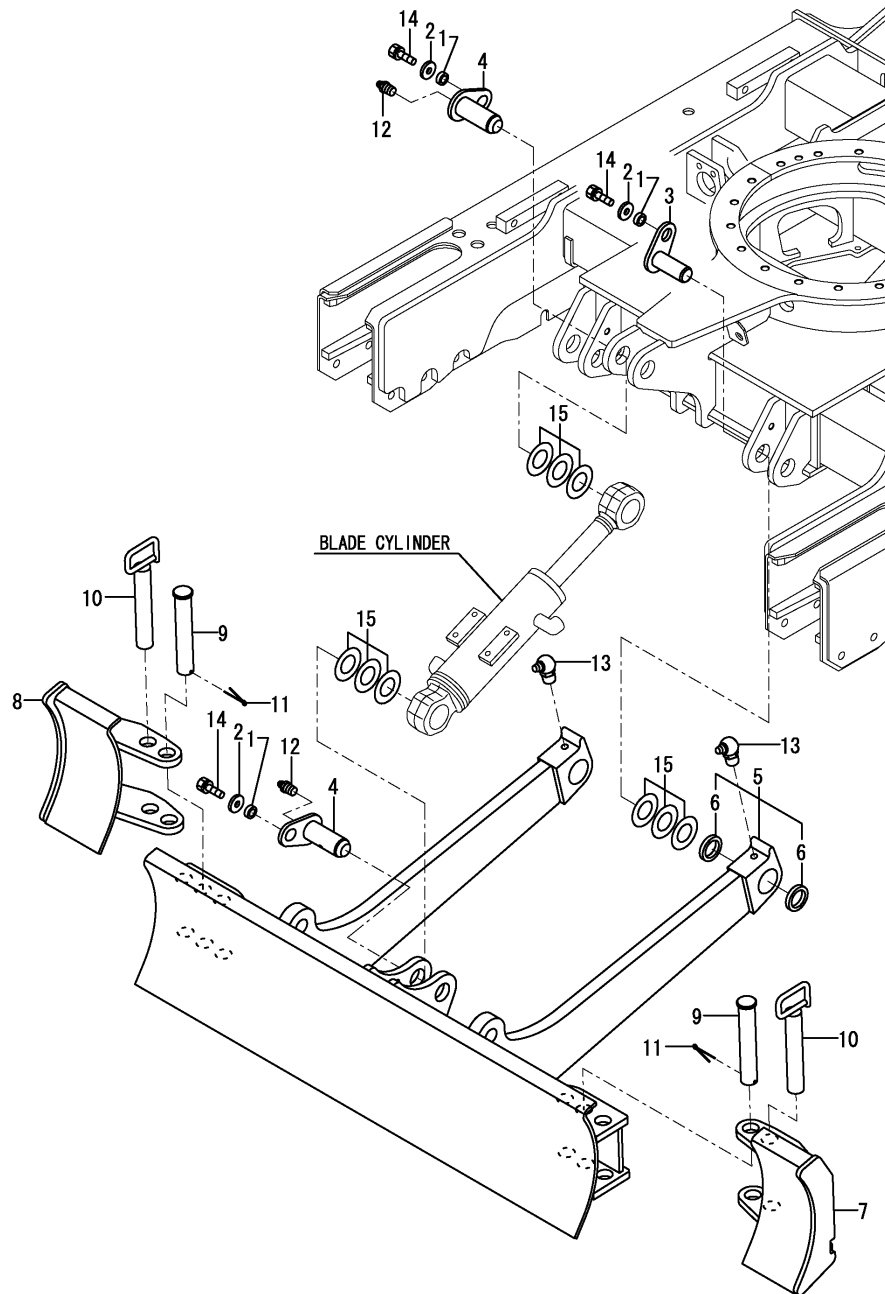
Remarks  
 (1)REPAIR KIT.

Fig.80. BLADE

P/C NEWS No:Y00S4181-1  
PUBLISHED:2007/06

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

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

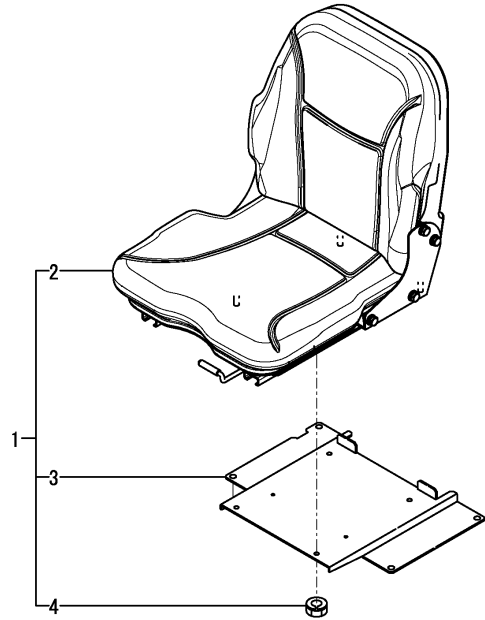


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	4	4						
2	1	172110-36010	COLLAR	4	4						
3	1	172137-94251	PIN 30X76	2	2						
4	1	172137-94271	PIN	2	2						
5	1	172448-94500-1	BLADE ASSY(GREEN:82)	1							
5-1	1	172448-94501	BLADE ASSY(GREEN:88)	1	1						N
(A=M/#25606)											
5-2	1	172448-94490	BLADE ASSY (88)	1	1						N
(A=XXX) (B=XXX)											
6	2	172448-81600	SEAL, DUST 30X40X4	4	4						
7	1	172448-94600-1	BLADE,SIDE L(GREEN82)	1							
7-1	1	172448-94601	BLADE,SIDE L(GREEN88)	1							R
(A=M/#21267)											
7-2	1	172448-94602	BLADE ASSY,SIDE L(88)	1	1						N
(A=M/#25606)											
8	1	172448-94610-1	BLADE,SIDE R(GREEN82)	1							
8-1	1	172448-94611	BLADE,SIDE R(GREEN88)	1							R
(A=M/#21267)											
8-2	1	172448-94612	BLADE ASSY, SIDE R	1	1						N
(A=M/#25606)											
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.82. SEAT KIT(OPTIONAL)

(A)=VIO15-2(US)  
 (B)=VIO15-2(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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102103-55520	10	26
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103954-13201	5	5
104200-11920	9	13
104200-55321	10	33
104200-55330	10	23
		34
104200-55341	10	35
104200-55750	10	30
		43
105027-12580	5	15
106990-44660	9	30 -1
110250-55610	10	27
		38
119225-52102	10	21
119233-13600	5	6
119247-77100	13	39
119258-12530	5	12
119650-77910	13	42
119653-77710	13	40
119655-12560	5	14
119808-12540	5	13
119810-55340	10	24
119810-55650	10	29
119813-44510	8	21
119833-55620	10	22
121250-49121	8	3
121250-55620	10	28
121254-55510	10	25
121256-44600	8	28
121257-55720	10	39
121257-55731	10	40
124064-55510	10	36
124450-44550	8	27
124701-11911	5	4
124764-44810	1	51
124764-44920	1	52
124766-59050	8	30
	9	28
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129155-77810	13	41
129211-77920	13	45
129335-55700	10	32
171081-55910	10	44
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	76	1
	77	1
	80	1
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172113-12522	6	6
172117-83970-6	75	14
172122-37844	17	12
172122-46590	23	31
	27	32
	30	10
172122-70350	49	15
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172122-73430	49	27
172122-73470	49	41
172122-73480	49	42
172122-79930	63	11
	64	29
	65	25
	67	22
	70	9
	71	9
	72	25
		26
	73	25
		26
172123-76121	64	1
		2
		3
	65	1
		2
		3
	67	2
	70	3
	72	1
		6 -1
	73	1
		6
172124-46200	21	17
	22	17
	23	14
	27	9
	30	9
172124-76100	63	2
172125-03950	1	50
172125-03951	1	50 -1
	2	50
172126-11510	10	54
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	14	1
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172137-14610	10	2
172137-16560	8	20
	10	20
	12	6
172137-37801	17	11
172137-37850	17	16
172137-70490	50	10
172137-70570	50	26
172137-70580	50	27
172137-74520	53	11
		27
	54	14
	55	8
		23
	56	24
	57	8
		21
	58	8
172137-81300	77	3
	78	3
172137-84404-4	78	1
172137-84451	78	4
172137-86240-1	79	4
172137-86251	78	10
	79	12
172137-94251	80	3
172137-94271	80	4
172137-99451	78	8
	79	10
172141-41340	23	1
172141-41360	27	2
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172141-50890	32	8
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172141-70110	49	10
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172141-70450	49	6
172141-72561	43	9
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172141-72580	45	12
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172141-76180	64	9
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	72	7
	73	7
172141-76920	64	12
172141-77260	50	37
172141-77400	50	39
172141-77800	74	3
172141-82270	76	4
	77	6
172141-84601	75	15
	76	8
172142-62300	35	6
172142-72560	46	8
172142-73800	51	3
172142-76950	69	10
172142-78810	72	15
	73	15
172146-12150	6	3
172146-45630	27	30
172146-82910	75	13
172147-03210	1	7
172147-70120	49	11
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172147-76180	67	3
172148-70301	49	4
		14
172148-71580	49	49
172148-73350	50	28
172148-73870	51	5
172149-03430	1	26
172149-57610	33	9
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172151-74880	60	11
172151-74890	60	12
172151-74900	60	13
172151-74910	60	14
172151-74930	60	15
172151-74940	60	16
172151-74950	60	17
172151-74980	60	18
172151-76030	71	4
172151-76040	71	3
172156-17401	15	1
172156-17420	15	3
172156-61320	36	6
172157-03170	1	5
	2	6
172157-13150	7	2
172157-45840	14	9
172157-45990	27	23
	29	10
	53	4
172157-70630	54	19
	55	2
		16
	57	2
	58	2
172157-70640	53	5
	54	20
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		17
	57	3
172157-70690	58	3
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		20
	54	4
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172157-70820	53	9
	54	22
	55	6
		20
	57	6
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172157-73910	51	12
172157-76150	64	8
172157-76220	69	3
172157-76300	63	3
172162-14200	9	4
172162-15310	39	4
172162-46690	21	18
	22	18
	28	7
172162-61850	12	8
172162-70780	49	7
172162-76320	67	4
172164-13520	37	1
172164-45951	23	8
172164-45961	23	9
172164-45970	25	4
172164-65580	39	6
172164-66170	38	18
	39	21
172164-66480	39	14
172164-74560	60	3
172164-74610	60	5
172164-74620	60	7
172164-74630	60	8
172164-74650	60	9
172165-03231	1	8
172165-45071	24	5
172165-45970	19	6
	20	6
172165-46340	27	24
	29	11
172165-47550	21	20
	22	20
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172165-82520	75	2 -1
172165-82530	75	5
172165-82580	75	5
172165-82590	75	6
172165-82600	75	7
172168-71880	49	72
172168-71890	49	73
172168-71900	49	74
172168-71910	49	75
172168-71920	49	76
172168-71950	49	8
172168-72410	46	13
172168-73580	50	31
172168-73590	50	33
172168-73600	50	35
172171-13461	10	1
172171-54750	33	4
172171-65850	39	10
172171-72130	43	14
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172173-37320	16	6
172173-72550	43	22
	44	19
	45	8
	47	8
	48	8
172173-73510	50	29
172173-73520	50	11
172173-73570	50	30
172173-73580	50	32
172173-73590	50	34
172173-73600	50	36
172173-73690	50	12
172173-73700	50	13
172173-76101	70	1
	71	1
172173-76120	64	4
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172173-76121	64	4 -1
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172183-14250	9	11
172183-14640	8	18
172183-16550	13	53
172183-16560	24	1
172183-71101	42	1
172183-72290	44	17
	45	14
		17
	47	15
		18
	78	2
172183-73510	49	31
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172183-73520	49	32
172183-73560	49	33
172183-73570	49	34
172183-73660	49	35
172183-73670	49	58
172183-73770	49	52
172183-73780	49	59
172183-73870	49	60
172183-74350	52	7
	55	22
	56	10
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172183-74820-3	69	1
172183-76200	64	11
	65	7
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172186-72480	43	26
172186-76390	66	16
172187-14430	8	15
172187-16560	23	21
172187-17070	13	2
172187-17080	13	3
172187-17090	13	4
172187-17100	13	1
172187-17280	13	18
172187-17320	13	20
172187-17341	13	22
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172187-45651	27	21 -1
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172187-45760	27	22
	29	8
172187-61421	37	2
	38	2
172187-63160	41	2
172187-64830	36	8
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172187-76160	66	12
172312-74790	49	61
172312-77820	74	4
172421-73380	49	84
172421-73400	49	40
172422-65750	39	9
172422-73130	42	8
172422-73140	42	28
172422-73160	42	29
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172422-73220	42	32
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172422-73280	42	34
172422-73290	42	35
172422-73500	42	36
172422-73510	42	16
172422-73520	42	37
172422-73530	42	38
		39
172422-73540	42	40
172422-73550	42	41
		49
172422-73560	42	42
172422-73570	42	17
172422-73580	42	45
172422-73590	42	46
172422-73610	42	47
172422-73620	42	50
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172422-73640	42	53
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172437-03250	1	11
	3	1
172437-03251	1	11 -1
	2	13
	3	1 -1
	4	1
172437-03310	1	14
	3	2
	40	6 A
172437-03311	1	14 -1
	3	2 -1
	40	6 A-1
172437-03312	1	14 -2
	2	17
	3	2 -2
	4	2
	40	6 A-2
172437-03320	1	15
	3	3
	62	29 A
172437-03321	1	15 -1
	3	3 -1
	62	29 A-1
172437-03322	1	15 -2
	2	18
	3	3 -2
	4	3
	62	29 A-2
172437-03340	1	17
	3	4
	40	6 B
172437-03341	1	17 -1
	3	4 -1
	40	6 B-1
172437-03342	1	17 -2
	2	20
	3	4 -2
	4	4
	40	6 B-2
172437-03351	1	18
	3	5
	34	37 A
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172437-03352	1	18 -1
	2	21
	3	5 -1
	4	5
	34	37 A-1

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	3	6
	37	18 A
172437-03361	1	19 -1
	2	22
	3	6 -1
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	37	18 A-1
172437-03371	1	20
	3	7
	40	6 C
172437-03372	1	20 -1
	2	23
	3	7 -1
	4	7
	40	6 C-1
172437-03380	1	21
	3	8
	38	31 A
172437-03381	1	21 -1
	2	24
	3	8 -1
	4	8
	38	31 A-1
172437-03390	1	22
	3	9
	39	36 A
172437-03391	1	22 -1
	2	25
	3	9 -1
	4	9
	39	36 A-1
172437-03400	1	23
	3	10
	38	31 B
172437-03401	1	23 -1
	3	10 -1
	38	31 B-1
172437-03402	1	23 -2
	2	26
	3	10 -2
	4	10
	38	31 B-2
172437-03410	1	24
	3	11
	39	36 B
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	3	11 -1

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	3	12
	34	38 B
172437-03422	1	25 -1
	2	28
	3	12 -1
	4	12
	34	38 B-1
172437-03431	1	27
	3	13
	40	6 D
172437-03432	1	27 -1
	2	29
	3	13 -1
	4	13
	40	6 D-1
172437-03440	1	28
	3	14
	40	6 E
172437-03441	1	28 -1
	3	14 -1
	40	6 E-1
172437-03450	1	29
	3	15
	40	6 F
172437-03451	1	29 -1
	3	15 -1
	40	6 F-1
172437-03460	1	30
	3	16
	76	19 A
172437-03461	1	30 -1
	2	30
	3	16 -1
	4	14
	76	19 A-1
172437-03470	1	31
	3	17
	40	6 G
172437-03471	1	31 -1
	2	31
	3	17 -1
	4	15
	40	6 G-1
172437-03500	1	32
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	2	32
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	3	20
	40	6 I
172437-03601	1	43 -1
	2	42
	3	20 -1
	4	17
	40	6 I-1
172437-03610	1	45
	2	44
172437-03620	1	47
	2	45
172437-74690	61	1
172437-74701	61	3
172437-74731	61	5
172437-74732	61	5 -1
172437-74750	61	6
172444-13210	8	1
172444-14200	9	5
172444-14270	9	22
172444-14410	9	25
172444-14450	9	6
172444-14460	9	7
172444-14470	9	8
172444-14480	9	9
172444-14490	9	10
172444-17620	34	15
172444-65680	37	10
172444-68650	37	11
172446-03651	1	48
	3	22
	37	18 C
172446-03652	1	48 -1
	2	48
	3	22 -1
	4	21
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172446-13330	8	5
172446-14250	9	19
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172446-45950	26	3
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172447-74221	53	29
	56	14
172447-74230	53	17
		30
	56	15
172447-74250	52	6
172447-74300	54	12
	56	9
172447-74310	54	13
172447-74380	58	17
172447-75290	62	18
172447-75600	62	13
172447-76210	66	15
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	73	3
172448-03150	1	2
	2	3
172448-03180	1	6
	2	7
172448-03500	1	33
172448-03501	1	33 -1
172448-03502	1	33 -2
	2	33
172448-03510	1	35
	2	35
172448-03520	1	36
172448-03521	1	36 -1
	2	36
172448-03530	1	38
172448-03531	1	38 -1
	2	38
172448-03540	1	39
	2	39
172448-03560	1	40
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172448-03561	1	40 -1
	2	40
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172448-03610	1	46
172448-03620	2	46
	4	19
	41	10 A
172448-03630	2	47
	4	20
172448-08330	39	35
172448-11300	5	1
172448-11500	5	10
172448-11510	5	11
172448-11520	5	16
172448-11530	5	17
172448-11540	5	18
172448-12100	6	1
172448-12130	6	2
172448-12200	6	5
172448-13100	7	1
172448-13210	7	4
172448-13220	7	5
172448-13231	7	6
172448-13260	7	8
172448-13300	7	9
172448-13380	8	6
172448-13400	8	7
172448-13500	8	8
172448-13510	8	9
172448-13520	8	10
172448-13530	8	11
172448-13540	8	12
172448-13560	8	14
172448-14150	9	14
172448-14180	9	16
172448-14200	9	17
172448-14300	9	20
172448-14340	9	23
172448-14610	10	3
172448-14630	10	7
172448-14650	10	11
172448-14670	10	15
172448-14690	9	27
172448-16100	11	1
172448-16130	11	5
172448-16150	11	6
172448-16160	11	7

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172448-16550	12	5
172448-16590	14	4
172448-16600	14	2
172448-17200	13	9
172448-17210	14	5
172448-17400-1	15	4
172448-29100-1	16	1
172448-37100-1	17	2
172448-37110	17	3
172448-37130	17	4
172448-37140	17	5
172448-37310	16	5
172448-37500-1	16	11
172448-37710	17	10
172448-37711	17	10 -1
172448-37800	17	11 -1
172448-38600	18	1
172448-45010	24	3
172448-45030	24	4
172448-45101	23	2
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