

**YANMAR**

**PARTS CATALOG**



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0CS10-G44703

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# P R E F A C E

1. This Parts Catalog carries Yanmar excavator (crawler back-hoe) Vio20-3 for U.S.A.

2. Parts catalog history

		Parts catalog NO.	Published	Remarks
1st edition	Vehicle	OCS10-G44700	Sep., 2004	Disuse old edition
	Engine	OCB10-G71400		
1st revised	Vehicle	OCS10-G44701	Jun., 2006	Disuse old edition
	Engine	OCB10-G71401		
2nd revised	Vehicle	OCS10-G44702	Feb., 2007	Disuse old edition
	Engine	OCB10-G71401		
3rd revised	Vehicle	OCS10-G44703	Nov., 2010	
	Engine	OCB10-G71401		

3. Model name

SECTION	Column	Model name	M/#	Manufactured
I (Vehicle)	(A)	Vio20-3 (US)	30506~	2004/05~
	(B)	Vio20-3 (AS)		
	(C)	Vio20-3 (NZ)		
II (Engine)	(A)	3TNV76-PBV	04372~	2004/04~

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.

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

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.

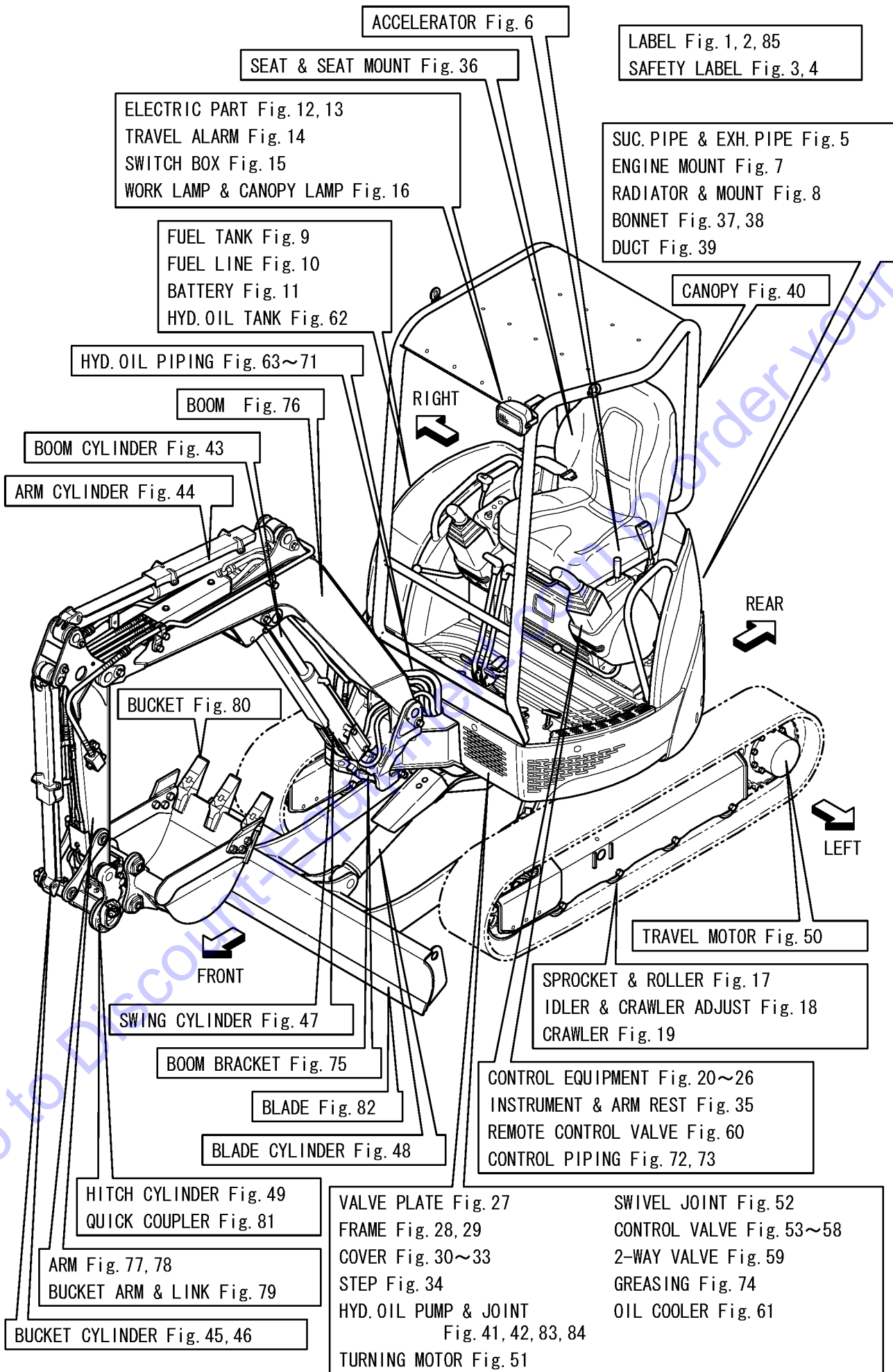
Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

### 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.

# PICTURESQUE INDEX (1) . . . MAIN PARTS



ACCELERATOR Fig. 6

SEAT & SEAT MOUNT Fig. 36

LABEL Fig. 1, 2, 85  
SAFETY LABEL Fig. 3, 4

ELECTRIC PART Fig. 12, 13  
TRAVEL ALARM Fig. 14  
SWITCH BOX Fig. 15  
WORK LAMP & CANOPY LAMP Fig. 16

SUC. PIPE & EXH. PIPE Fig. 5  
ENGINE MOUNT Fig. 7  
RADIATOR & MOUNT Fig. 8  
BONNET Fig. 37, 38  
DUCT Fig. 39

FUEL TANK Fig. 9  
FUEL LINE Fig. 10  
BATTERY Fig. 11  
HYD. OIL TANK Fig. 62

CANOPY Fig. 40

HYD. OIL PIPING Fig. 63~71

BOOM Fig. 76

RIGHT

BOOM CYLINDER Fig. 43

ARM CYLINDER Fig. 44

REAR

BUCKET Fig. 80

LEFT

TRAVEL MOTOR Fig. 50

FRONT

SWING CYLINDER Fig. 47

SPROCKET & ROLLER Fig. 17  
IDLER & CRAWLER ADJUST Fig. 18  
CRAWLER Fig. 19

BOOM BRACKET Fig. 75

BLADE Fig. 82

CONTROL EQUIPMENT Fig. 20~26  
INSTRUMENT & ARM REST Fig. 35  
REMOTE CONTROL VALVE Fig. 60  
CONTROL PIPING Fig. 72, 73

BLADE CYLINDER Fig. 48

HITCH CYLINDER Fig. 49  
QUICK COUPLER Fig. 81

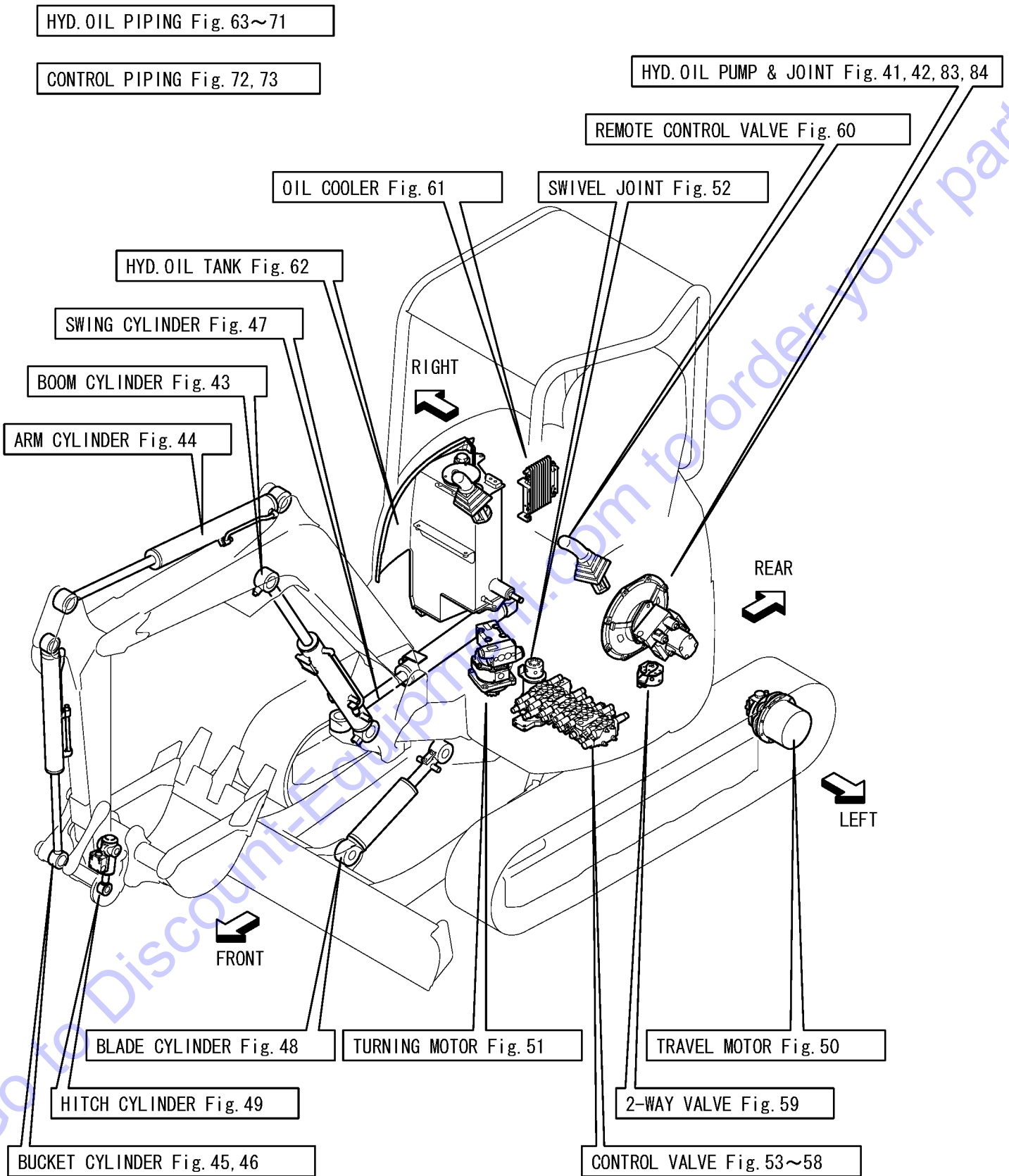
VALVE PLATE Fig. 27  
FRAME Fig. 28, 29  
COVER Fig. 30~33  
STEP Fig. 34  
HYD. OIL PUMP & JOINT Fig. 41, 42, 83, 84  
TURNING MOTOR Fig. 51

SWIVEL JOINT Fig. 52  
CONTROL VALVE Fig. 53~58  
2-WAY VALVE Fig. 59  
GREASING Fig. 74  
OIL COOLER Fig. 61

ARM Fig. 77, 78  
BUCKET ARM & LINK Fig. 79

BUCKET CYLINDER Fig. 45, 46

# PICTURESQUE INDEX (2) . . . HYDRAULIC SECTION



# CONTENTS

MODEL : VIO20-3(US)  
PC NO : 0CS10-G44703

Fig.No.	GROUP NAME
	VEHICLE VIO20-3(US,AS,NZ)
1.	LABEL
2.	LABEL(QUICK COUPLER SPEC.)
3.	SAFETY LABEL
4.	SAFETY LABEL(QUICK COUPLER SPEC.)
5.	SUCTION PIPE & EXHAUST PIPE
6.	ACCELERATOR LEVER
7.	ENGINE MOUNT
8.	RADIATOR & MOUNT
9.	FUEL TANK
10.	FUEL LINE
11.	BATTERY
12.	ELECTRIC PART(WIRING)
13.	ELECTRIC PART(EQUIPMENT)
14.	TRAVEL ALARM
15.	ELECTRIC PART(SWITCH BOX : QUICK COUPLER SPEC.)
16.	WORK LAMP & CANOPY LAMP
17.	SPROCKET & ROLLER
18.	IDLER & CRAWLER ADJUST
19.	CRAWLER
20.	CONTROL EQUIPMENT(LOCK LEVER & STAND)(RIGHT)
21.	CONTROL EQUIPMENT(LOCK LEVER & STAND)(LEFT)
22.	CONTROL EQUIPMENT(TRAVEL LEVER)
23.	CONTROL EQUIPMENT(BLADE LEVER)
24.	CONTROL EQUIPMENT(SWING PEDAL)
25.	CONTROL EQUIPMENT(LOW-HIGH PEDAL)
26.	CONTROL EQUIPMENT(P.T.O. PEDAL)
27.	CONTROL VALVE PLATE
28.	TURNING FRAME
29.	TRACK FRAME & TURNING BEARING

Fig.No.	GROUP NAME
30.	COVER(FRAME)
31.	COVER(AROUND OPERATION)
32.	COVER(BOOM)
33.	COVER(CANOPY)
34.	STEP
35.	INSTRUMENT PANEL & ARM LEST
36.	SEAT & SEAT MOUNT
37.	BONNET(1)
38.	BONNET(2)
39.	DUCT
40.	CANOPY
41.	HYD.OIL PUMP & JOINT(TO M36239)
83.	(41A)HYD.OIL PUMP & JOINT(FROM M36240)
42.	HYD.OIL PUMP & JOINT(QUICK COUPLER SPEC.)(TO M36239)
84.	(42A)HYD.OIL PUMP & JOINT(QUICK COUPLER SPEC.)(FROM M36241)
43.	BOOM CYLINDER
44.	ARM CYLINDER
45.	BUCKET CYLINDER
46.	BUCKET CYLINDER(QUICK COUPLER SPEC.)
47.	SWING CYLINDER
48.	BLADE CYLINDER
49.	HITCH CYLINDER(QUICK COUPLER SPEC.)
50.	TRAVEL MOTOR
51.	TURNING MOTOR
52.	SWIVEL JOINT(Y SPEC.)(TO M39318)
86.	(52A)SWIVEL JOINT(N SPEC.)(FROM M39319)
53.	CONTROL VALVE(1/6)
54.	CONTROL VALVE(2/6)
55.	CONTROL VALVE(3/6)
56.	CONTROL VALVE(4/6)

# CONTENTS

MODEL : VIO20-3(US)  
PC NO : 0CS10-G44703

Fig.No. GROUP NAME

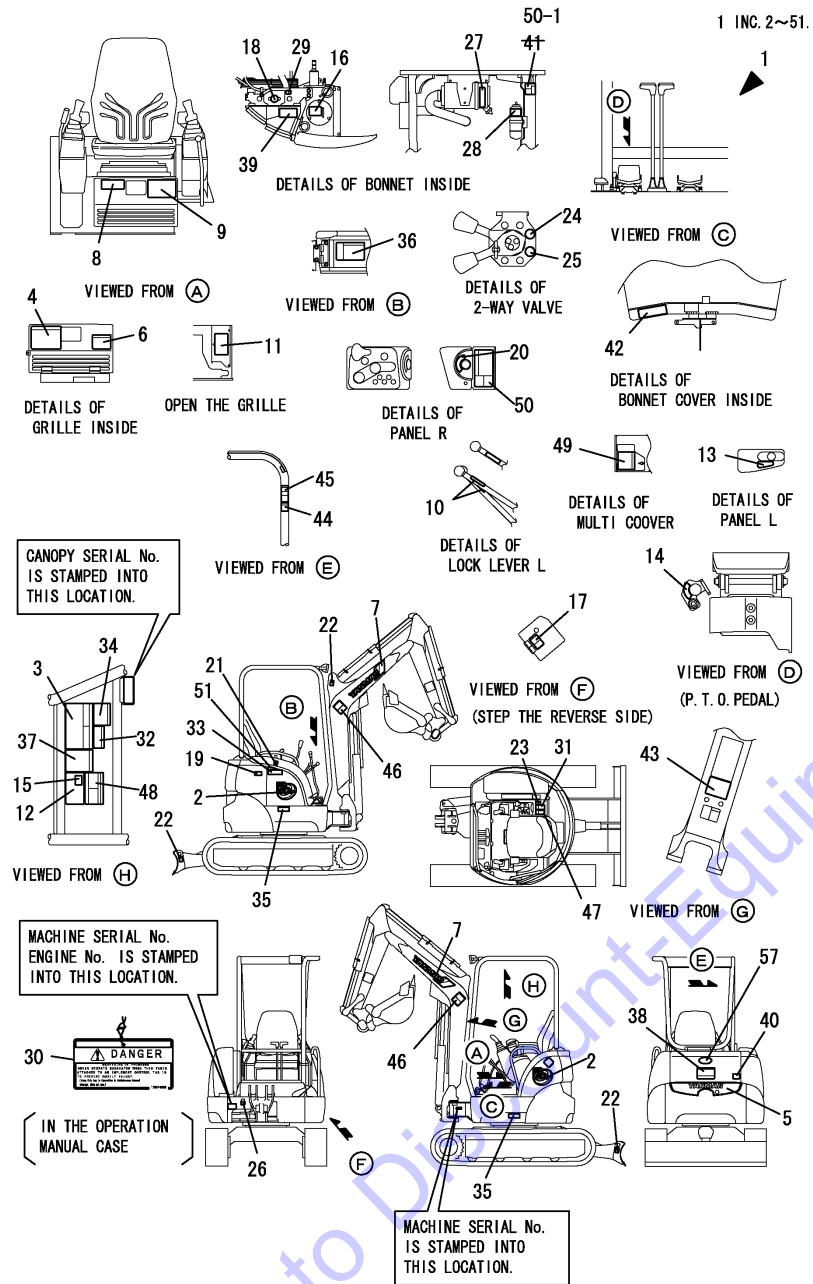
57. CONTROL VALVE(5/6)
58. CONTROL VALVE(6/6)
59. 2-WAY VALVE
60. REMOTE CONTROL VALVE
61. OIL COOLER
62. HYD.OIL TANK
63. HYD.OIL PIPING(TANK - PUMP - CONTROL VALVE)
64. HYD.OIL PIPING(PUMP, CONTROL VALVE - TURNING MOTOR)
65. HYD.OIL PIPING(CONTROL V. - SWIVEL JOINT, SWING CYLINDER)
66. HYD.OIL PIPING(RETURN)
67. HYD.OIL PIPING(P.T.O. : FRAME END)
68. HYD.OIL PIPING(TRACK FRAME)
69. HYD.OIL PIPING(CONTROL V. - BOOM CYL., ARM CYL., BUCKET CYL.)
70. HYD.OIL PIPING(P.T.O. : ARM END)
71. HYD.OIL PIPING(QUICK COUPLER)
72. CONTROL PIPING(PUMP - REMOTE CONTROL VALVE - RETURN)
73. CONTROL PIPING(REMOTE CONTROL V. - 2-WAY V. - CONTROL V.)
74. GREASING
75. BOOM BRACKET
76. BOOM
77. ARM
78. ARM(QUICK COUPLER SPEC.)
79. BUCKET ARM & LINK
80. BUCKET
81. QUICK COUPLER
82. BLADE
85. LABEL KIT FOR CANADA(OPTIONAL)

Fig.No. GROUP NAME

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Fig.1. LABEL

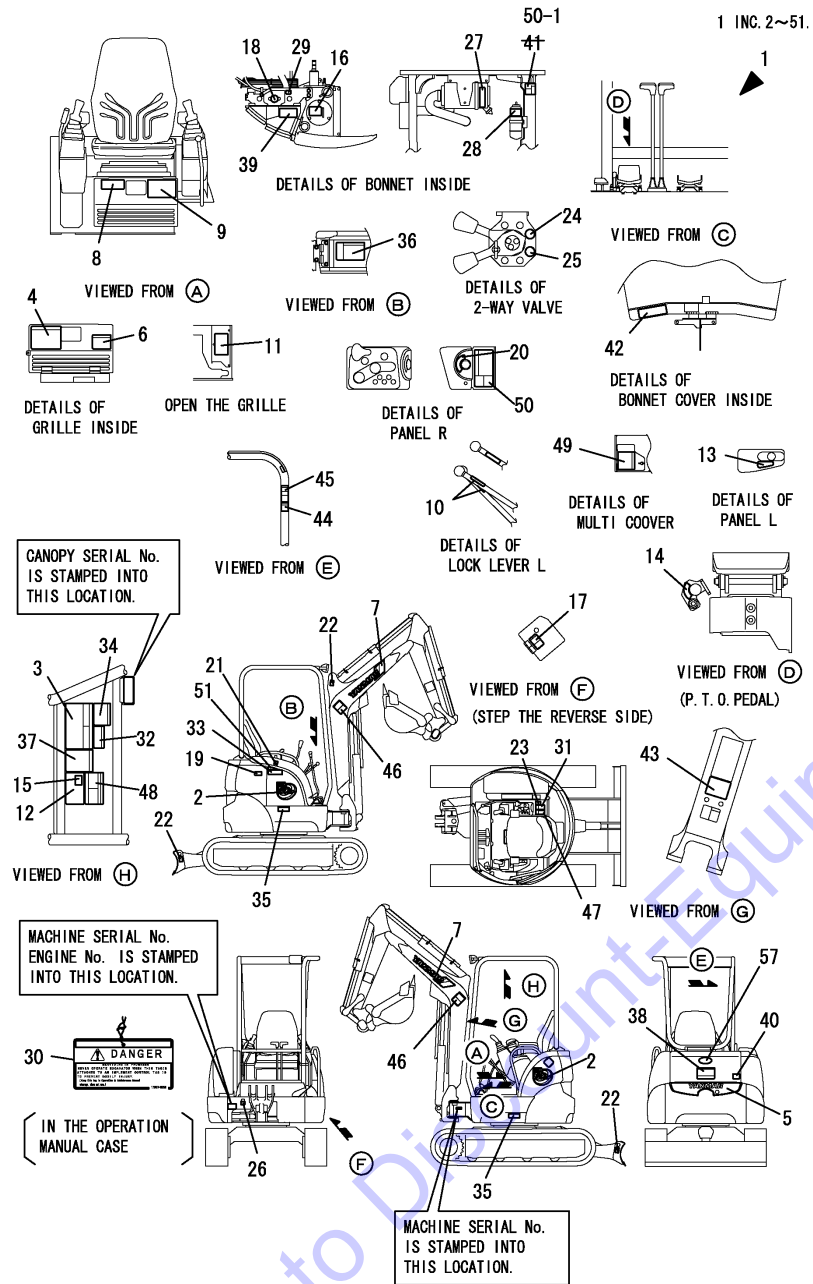


(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)  
(D)=  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A36-03110	LABEL SET,VIO20-3 US	1	1	1					
1-1	1	172A36-03500	SET,LABEL VIO20-3US	1	1	1					S
		(A=M45019) (B=M45019) (C=M45019)									
1-2	1	172A36-03501	SET,LABEL VIO20-3US	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
2	2	172469-03121	LABEL, MODEL	2	2	2					
2-1	2	172A23-03120	LABEL,MODEL	2	2	2					N
		(A=M45501) (B=M45501) (C=M45501)									
3	2	172469-03131	LABEL, LIFT US	1	1	1					
3-1	2	172469-03132	LABEL, LIFT US	1	1	1					N
		(A=M33952) (B=M33952) (C=M33952)									
4	2	172469-03140	LABEL,OIL&WATER	1	1	1					
5	2	172458-03160	LABEL, REAR	1	1	1					
6	2	172472-03160	LABEL,GREASE	1	1	1					
7	2	172524-03271	LABEL, REAR	2	2	2					
7-1	2	172A55-03310	LABEL, BRAND 450	2	2	2					N
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
7-2	2	172A86-03310	LABEL, YANMAR	2	2	2					N
		(A=M45501) (B=M45501) (C=M45501)									
8	2	172A36-03110	LABEL,SPECIFICATION	1	1	1					
8-1	2	172A36-03111	LABEL, SPECIFICATION	1	1	1					N
		(A=M/#31177) (B=M/#31177) (C=M/#31177)									
8-2	2	172A36-03112	LABEL,SPEC US	1	1	1					S
		(A=M45019) (B=M45019) (C=M45019)									
9	2	172472-03140	LABEL,SUPORT US	1	1	1					
9-1	2	172472-03141	LABEL, SUPPORT	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
10	2	172183-03280	LABEL, LOCK	2	2	2					
11	2	172472-03171	LABEL,FUSE US	1	1	1					
12	2	172490-03200	LABEL, OPERATION	1	1	1					
13	2	172458-03220	LABEL, ACCELERATOR	1	1	1					
14	2	172458-03240	LABEL, LOCK	1	1	1					
15	2	172496-03250	LABEL, PTO	1	1	1					
16	2	172463-03290	LABEL, HYD.OIL	1	1	1					
17	2	172438-03300	LABEL, PTO SELECT	1	1	1					
18	2	172462-03320	LABEL, RADIATOR	1	1	1					
19	2	172463-03330	LABEL,COVER	1	1	1					
20	2	172141-03360	LABEL, START SWITCH	1	1	1					
20-1	2	172A64-03700	LABEL, START SWITCH	1	1	1					R
		(A=M34222) (B=M34222) (C=M34222)									
21	2	172437-03500	LABEL, FUEL	1	1	1					
21-1	2	172437-03501	LABEL, FUEL	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
22	2	172437-03510	LABEL, HOOK	4	4	4					
22-1	2	172437-03511	LABEL, HOOK	4	4	4					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
22-2	2	172437-03511	LABEL, HOOK	3	3	3					K
		(A=M/#31553) (B=M/#31553) (C=M/#31553)									
23	2	172437-03530	LABEL,RE-START	1							Z
		(A=MXXXXX)									
24	2	172437-03610	LABEL	1	1	1					

Remarks  
(1)RUBBER CRAWLER SPEC.

Fig.1. LABEL

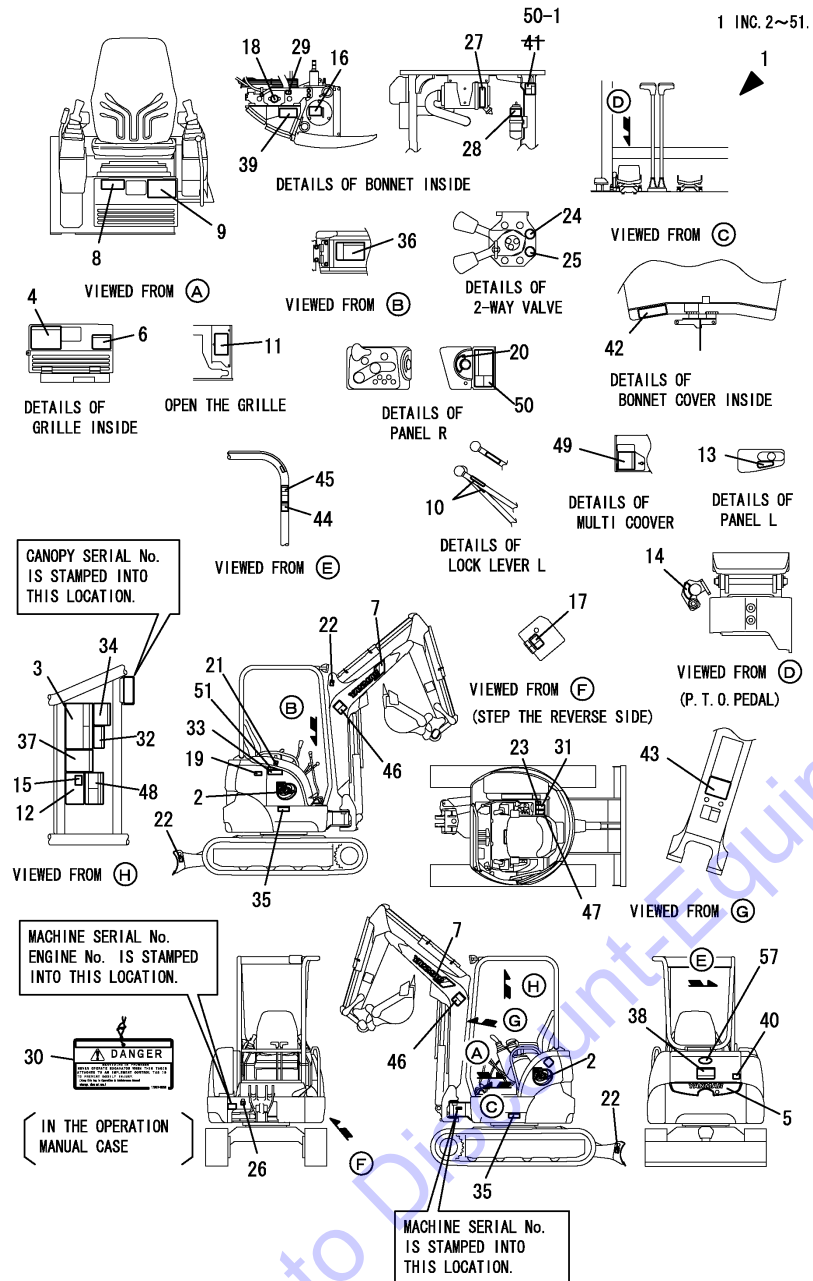


Remarks  
(1) RUBBER CRAWLER SPEC.

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)  
(D)=  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
25	2	172437-03620	LABEL	1	1	1					
26	2	172157-03740	LABEL	1	1	1					
26-1	2	172157-03741	LABEL, GREASE US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
27	2	172125-03950	LABEL, AIR CLEANER	1	1	1					
27-1	2	172125-03951	LABEL, AIR CLEANER	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
28	2	124764-44810	LABEL, SUB TANK	1	1	1					
28-1	2	172A38-03200	LABEL, SUB-TANK US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
28-2	2	172A38-03201	LABEL, SUB TANK	1	1	1					N
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
29	2	124764-44920	LABEL, ANTI-FREEZING	1	1	1					
29-1	2	172A38-03210	LABEL, ANTI-FREEZING	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
29-2	2	172A38-03211	LABEL, ANTI-FREEZING	1	1	1					N
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
30	2	172437-03250	TAG, SERVICING ASSY	1	1	1					
30-1	2	172437-03251	TAG ASSY, CAUTION	1	1	1					N
		(A=M/#32044) (B=M/#32044) (C=M/#32044)									
30-2	2	172437-03252	TAG ASSY, CAUTION	1	1	1					N
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
31	2	172437-03300	LABEL, MANUAL	1	1	1					
31-1	2	172437-03301	LABEL, MANUAL US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
31-2	2	172437-03302	LABEL, MANUAL	1	1	1					N
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
32	2	172437-03310	LABEL, SLOPE	1	1	1					
32-1	2	172437-03311	LABEL, SLOPE US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
32-2	2	172437-03312	LABEL, SLOPE	1	1	1					N
		(A=M/#32044) (B=M/#32044) (C=M/#32044)									
33	2	172437-03321	LABEL, HYD. OIL TANK	1	1	1					
33-1	2	172437-03322	LABEL, RESEVOIR	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
34	2	172437-03341	LABEL, TRANSPORT	1	1	1					
34-1	2	172437-03342	LABEL, TRANSPORT US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
34-2	2	172437-03343	LABEL, TRANSPORT	1	1	1					N
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
35	2	172437-03351	LABEL, GREASE CYL.	2	2	2					
35-1	2	172437-03352	LABEL, CYLINDER	2	2	2					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
36	2	172437-03360	LABEL, BATTERY	1	1	1					
36-1	2	172437-03361	LABEL, BATTERY	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
37	2	172437-03371	LABEL	1	1	1					
37-1	2	172437-03372	LABEL, NEUTRAL	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
38	2	172437-03380	LABEL, SWING AREA	1	1	1					
38-1	2	172437-03381	LABEL, SWING AREA	1	1	1					N

Fig.1. LABEL



(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)  
(D)=  
(E)=  
(F)=

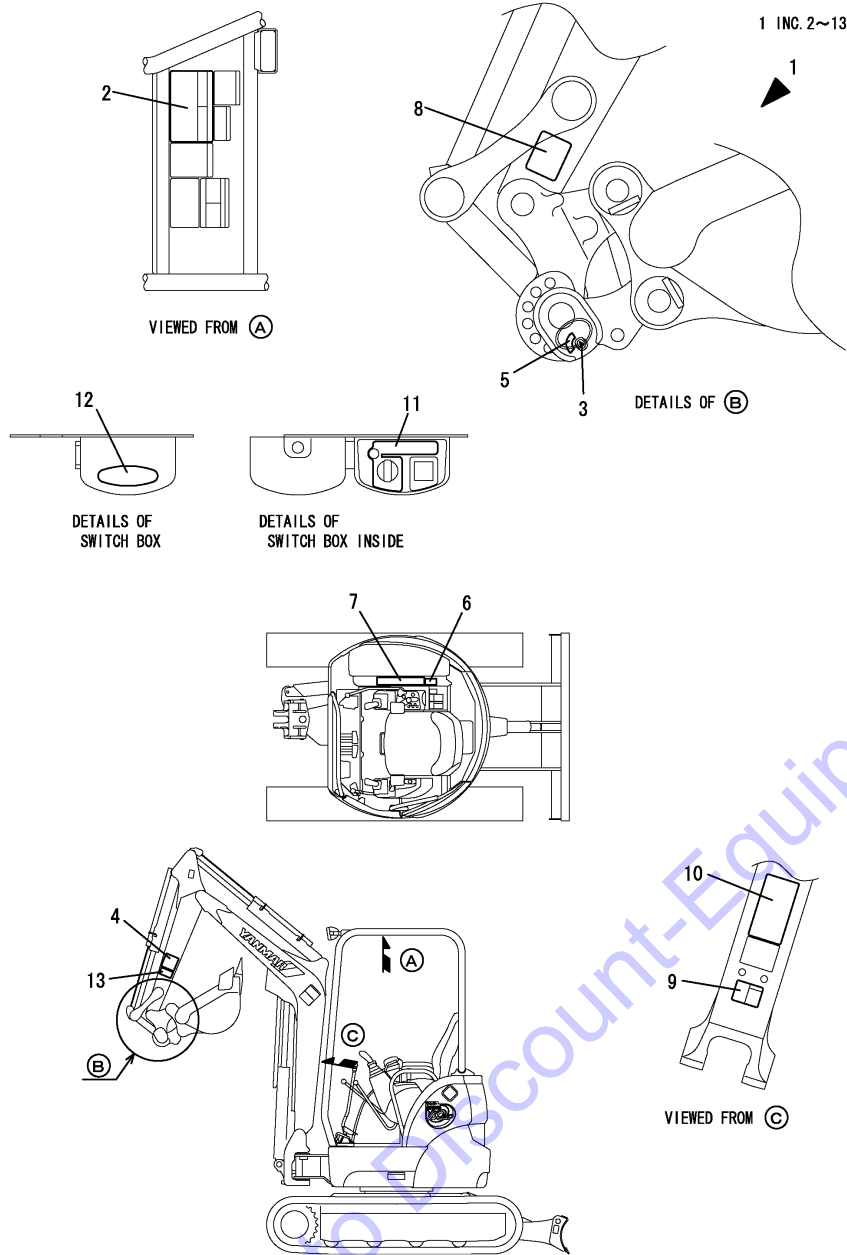
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
39	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03390	LABEL,RADIATOR	1	1	1					
39-1	2	172437-03391	LABEL, RADIATOR	1	1	1					N
40	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03401	LABEL (ENG COVER US	1	1	1					
40-1	2	172437-03402	LABEL, ENGINE COVER	1	1	1					N
41	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) (A=M/#30501)	LABEL (ENG ROOM US	1							Z
42	2	172437-03421	LABEL,MUFFLER	1	1	1					
42-1	2	172437-03422	LABEL, MUFFLER	1	1	1					N
43	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03431	LABEL,STEERING	1	1	1					
43-1	2	172437-03432	LABEL, STEERING	1	1	1					N
44	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03440	LABEL,ROPS	1	1	1					
44-1	2	172437-03441	LABEL, ROPS	1	1	1					N
45	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03450	LABEL,SEAT BELT	1	1	1					
45-1	2	172437-03451	LABEL, SEAT BELT	1	1	1					N
46	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03460	LABEL, BOOM	2	2	2					
46-1	2	172437-03461	LABEL, BOOM	2	2	2					N
47	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03470	LABEL,LEVER LOCK	1	1	1					
47-1	2	172437-03471	LABEL, LEVER LOCK	1	1	1					N
48	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03600	LABEL	1	1	1					
48-1	2	172437-03601	LABEL, 2-WAY US	1	1	1					N
49	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03241	LABEL,CRAWLER	1	1	1					1
49-1	2	172437-03242	LABEL, CRAWLER	1	1	1					N 1
50	2	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172A36-03410	LABEL, ENGINE ROOM	1	1	1					
50-1	2	(A=M/#30501) (B=M/#30501) (C=M/#30501) 172A36-03411	LABEL, ENGINE ROOM	2	2	2					N
51	2	(A=M35238) (B=M35238) (C=M35238) 114110-07760	LABEL, FUEL CAUTION	1	1	1					W
51-1	2	114110-07761	LABEL, FUEL OIL CAUT	1	1	1					N
57	1	(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ) (A=M45501) (B=M45501) (C=M45501) 172A64-03050	EMBLEM ASSY,L1 Y	1	1	1					W

Remarks  
(1)RUBBER CRAWLER SPEC.

Fig.2. LABEL(QUICK COUPLER SPEC.)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



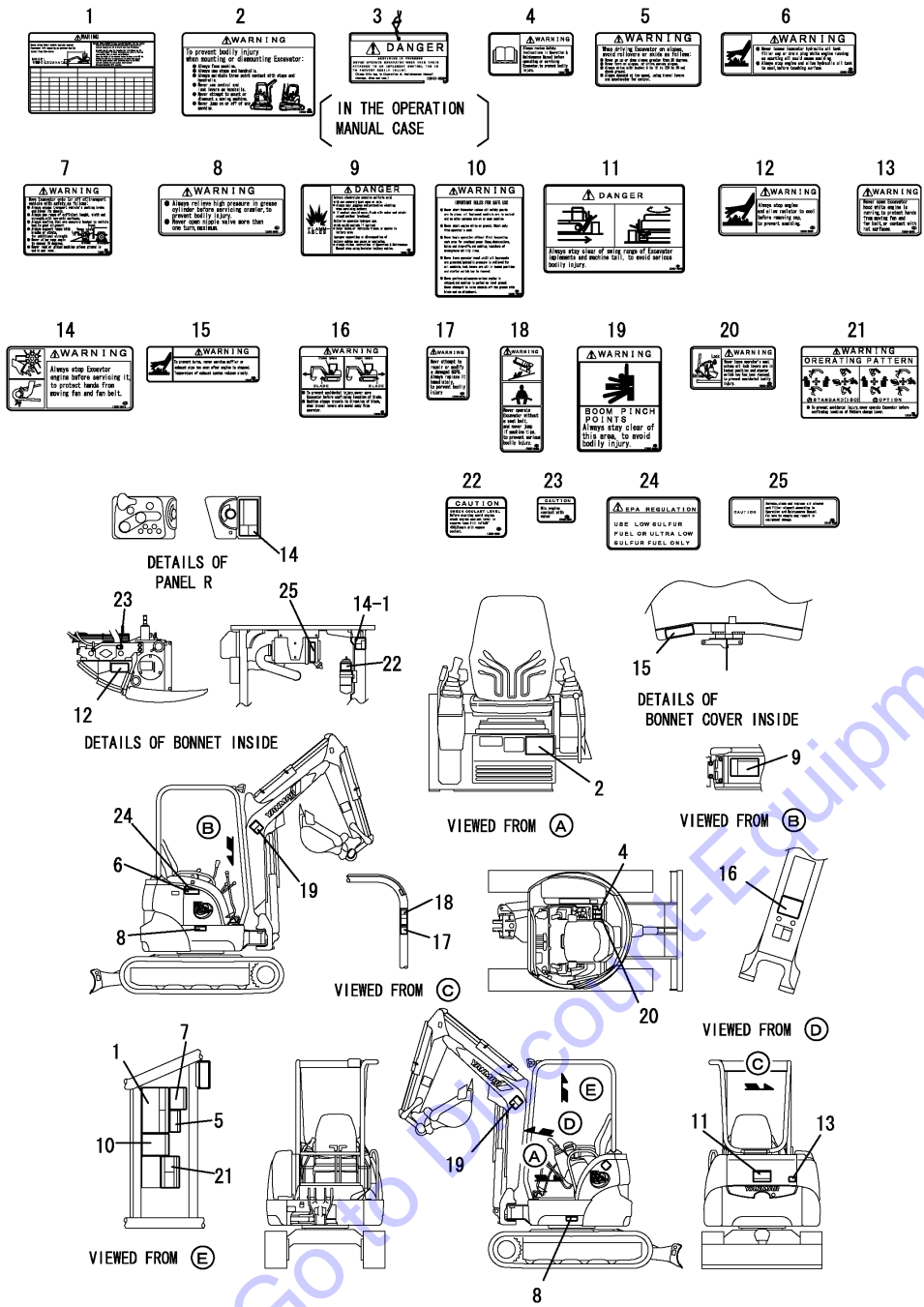
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772469-03131	LABEL SET,VIO20 US Q	1	1	1					
1-1	1	172A36-03510	SET,LABEL VIO20-3USQ	1	1	1					N
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
2	2	172469-03152	LABEL,LIFT Q US	1	1	1					
2-1	2	172469-03153	LABEL, LIFT Q US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
2-2	1	172469-03154	LABEL, LIFT Q US	1	1	1					N
		(A=M33952) (B=M33952) (C=M33952)									
3	2	172958-03160	LABEL	1	1	1					
4	2	172472-03230	LABEL,OPERATION PIN	1	1	1					
5	2	172458-03240	LABEL,LOCK	1	1	1					
6	2	172472-03240	LABEL,PIN US	1	1	1					
6-1	2	172472-03241	LABEL, PIN US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
7	2	172472-03250	LABEL,OPERATION Q US	1	1	1					
8	2	172472-03260	LABEL,FINGER	1	1	1					
8-1	2	172472-03261	LABEL, FINGER US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
9	2	172472-03270	LABEL,SAND US	1	1	1					
9-1	2	172472-03271	LABEL, SAND US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
10	2	172472-03280	LABEL	1	1	1					
10-1	2	172472-03281	LABEL, WARNING HITCH	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
11	2	172472-03290	LABEL,SWITCH	1							Z
		(A=M/#35241)									
12	2	172472-03300	LABEL,COVER	1							Z
		(A=M/#35241)									
13	2	172472-03330	LABEL,LOCK PIN(US	1	1	1					W
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									

Remarks  
(1)RUBBER CRAWLER SPEC.

Fig.3. SAFETY LABEL

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

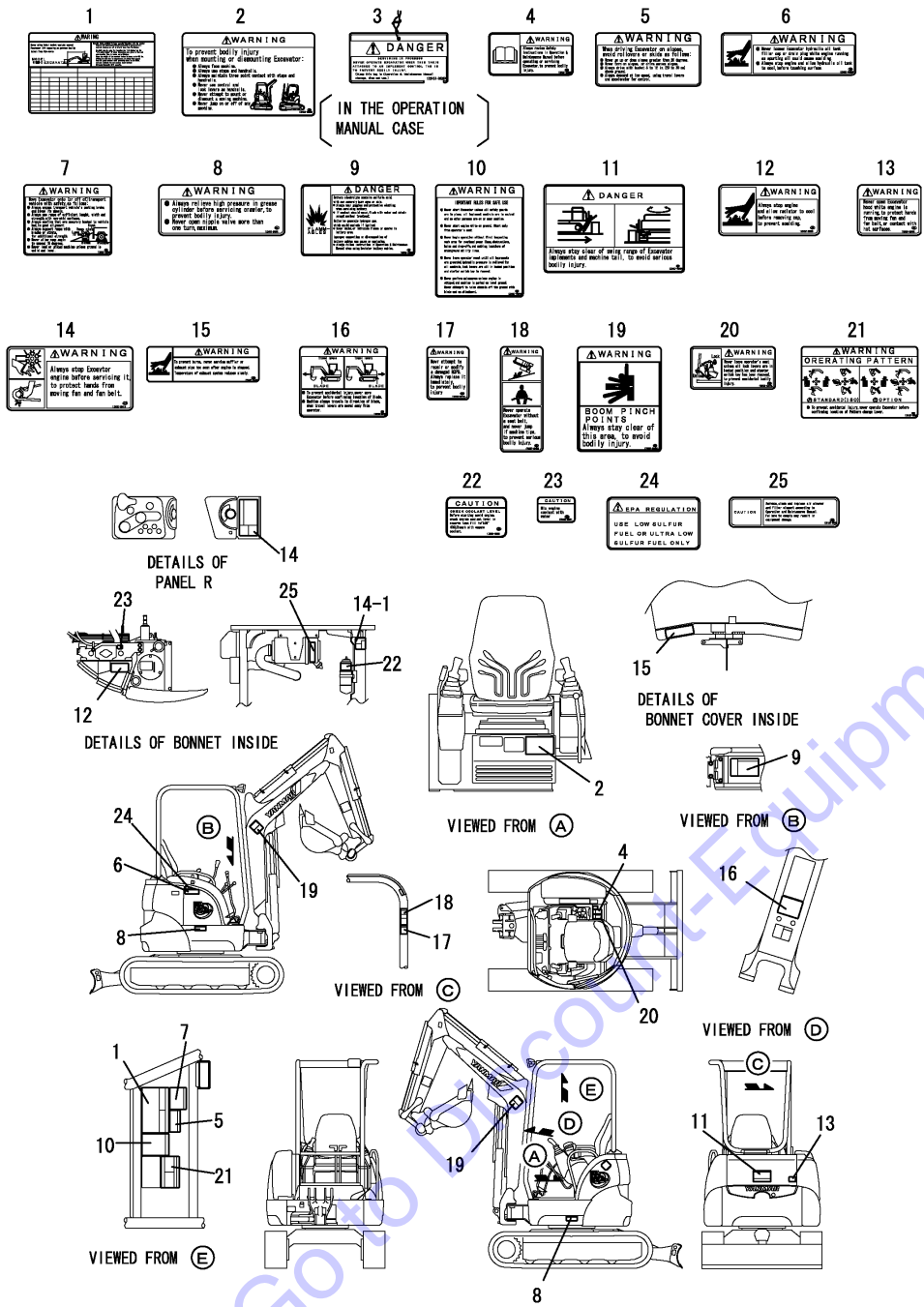
(D)=  
 (E)=  
 (F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-03131	LABEL, LIFT US	1							
1-1	1	172469-03132	LABEL, LIFT US	1							N
(A=M33952)											
2	1	172472-03140	LABEL,SUPPORT US	1	1	1					
2-1	1	172472-03141	LABEL, SUPPORT US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
3	1	172437-03250	TAG,SERVICING ASSY	1	1	1					
3-1	1	172437-03251	TAG ASSY, CAUTION	1	1	1					N
(A=M#32044) (B=M#32044) (C=M#32044)											
3-2	1	172437-03252	TAG ASSY, CAUTION	1	1	1					N
(A=M#32637) (B=M#32637) (C=M#32637)											
4	1	172437-03300	LABEL,MANUAL	1	1	1					
4-1	1	172437-03301	LABEL, MANUAL US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
4-2	1	172437-03302	LABEL, MANUAL US	1	1	1					N
(A=M#32637) (B=M#32637) (C=M#32637)											
5	1	172437-03310	LABEL,SLOPE	1	1	1					
5-1	1	172437-03311	LABEL, SLOPE US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
5-2	1	172437-03312	LABEL,SLOPE US	1	1	1					N
(A=M#32044) (B=M#32044) (C=M#32044)											
6	1	172437-03321	LABEL,HYD.OIL TANK	1	1	1					
6-1	1	172437-03322	LABEL, HYD.OIL TANK	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
7	1	172437-03341	LABEL,TRANSPORT	1	1	1					
7-1	1	172437-03342	LABEL, TRANSPORT US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
7-2	1	172437-03343	LABEL, TRANSPORT US	1	1	1					N
(A=M#32637) (B=M#32637) (C=M#32637)											
8	1	172437-03351	LABEL,GREASE CYL.	2	2	2					
8-1	1	172437-03352	LABEL, GREASE CYL.	2	2	2					N
(A=M#31399) (B=M#31399) (C=M#31399)											
9	1	172437-03360	LABEL,BATTERY	1	1	1					
9-1	1	172437-03361	LABEL, BATTERY US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
10	1	172437-03371	LABEL	1	1	1					
10-1	1	172437-03372	LABEL, NEUTRAL US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
11	1	172437-03380	LABEL,SWING AREA	1	1	1					
11-1	1	172437-03381	LABEL,SWING AREA US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
12	1	172437-03390	LABEL,RADIATOR	1	1	1					
12-1	1	172437-03391	LABEL, RADIATOR US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
13	1	172437-03401	LABEL (ENG COVER US	1	1	1					
13-1	1	172437-03402	LABEL, ENG,COVER US	1	1	1					N
(A=M#31399) (B=M#31399) (C=M#31399)											
14	1	172437-03411	LABEL (ENG ROOM US	1	1	1					
14-1	1	172A36-03411	LABEL, ENG ROOM	2	2	2					N
(A=M#30501) (B=M#30501) (C=M#30501)											
15	1	172437-03421	LABEL,MUFFLER	1	1	1					

Fig.3. SAFETY LABEL

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

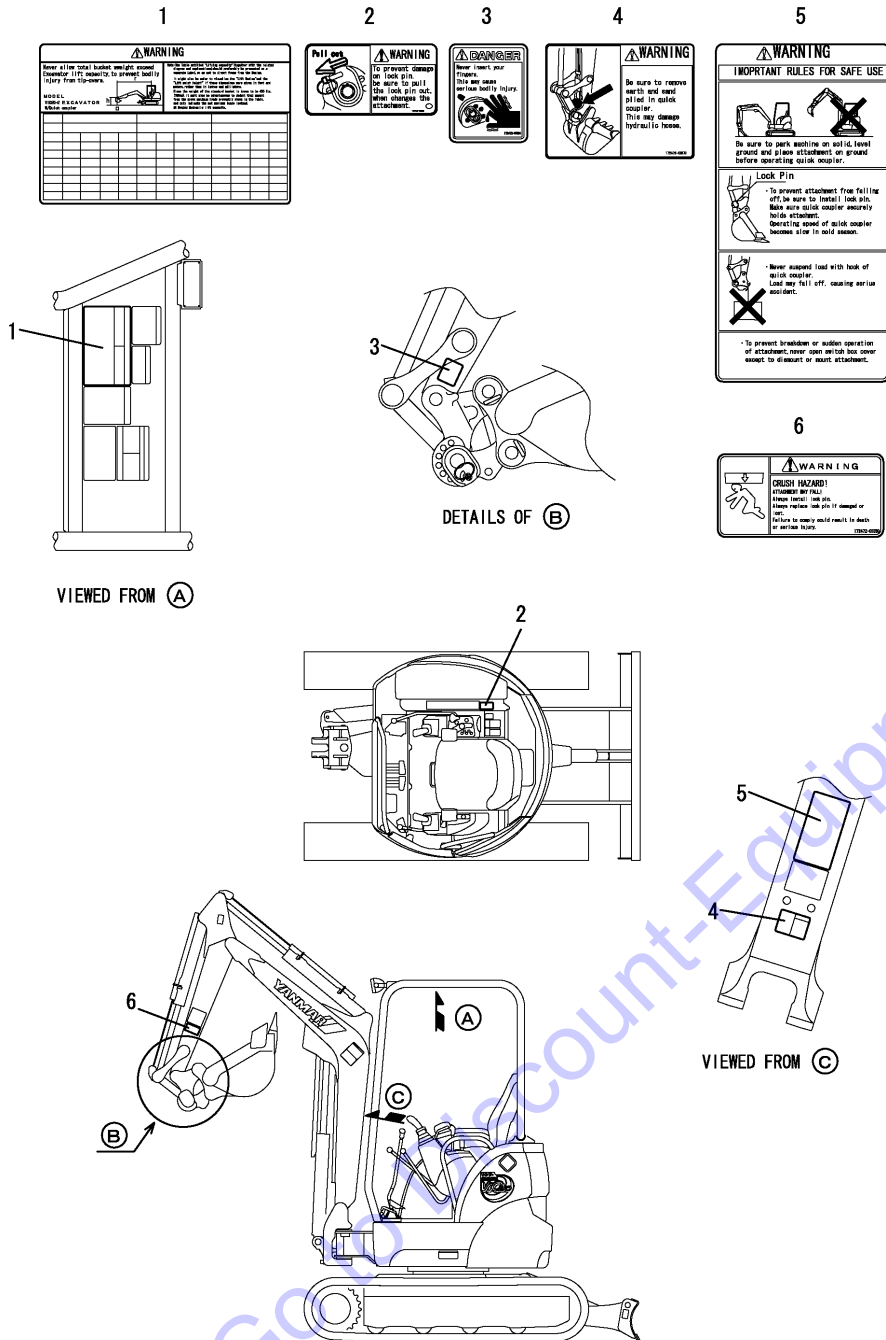


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
15-1	1	172437-03422 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, MUFFLER US	1	1	1					N
16	1	172437-03431	LABEL, STEERING	1	1	1					
16-1	1	172437-03432 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, STEERING US	1	1	1					N
17	1	172437-03440	LABEL, ROPS	1	1	1					
17-1	1	172437-03441 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, ROPS US	1	1	1					N
18	1	172437-03450	LABEL, SEAT BELT	1	1	1					
18-1	1	172437-03451 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, SEAT BELT US	1	1	1					N
19	1	172437-03460	LABEL, BOOM	2	2	2					
19-1	1	172437-03461 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, BOOM US	2	2	2					N
20	1	172437-03470	LABEL, LEVER LOCK	1	1	1					
20-1	1	172437-03471 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, LEVER LOCK US	1	1	1					N
21	1	172437-03600	LABEL	1	1	1					
21-1	1	172437-03601 (A=M/#31399) (B=M/#31399) (C=M/#31399)	LABEL, 2-WAY US	1	1	1					N
22	1	172A38-03201	LABEL, SUB-TANK US	1	1	1					
23	1	172A38-03211	LABEL, ANTI-FREEZING	1	1	1					
24	1	114110-07760 (A=M35238) (B=M35238) (C=M35238)	LABEL, FUEL OIL CAUT	1	1	1					W
24-1	1	114110-07761 (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	LABEL, FUEL OIL CAUT	1	1	1					N
25	1	172125-03951	LABEL, AIR CLEANER	1	1	1					

Fig.4. SAFETY LABEL(QUICK COUPLER SPEC.)

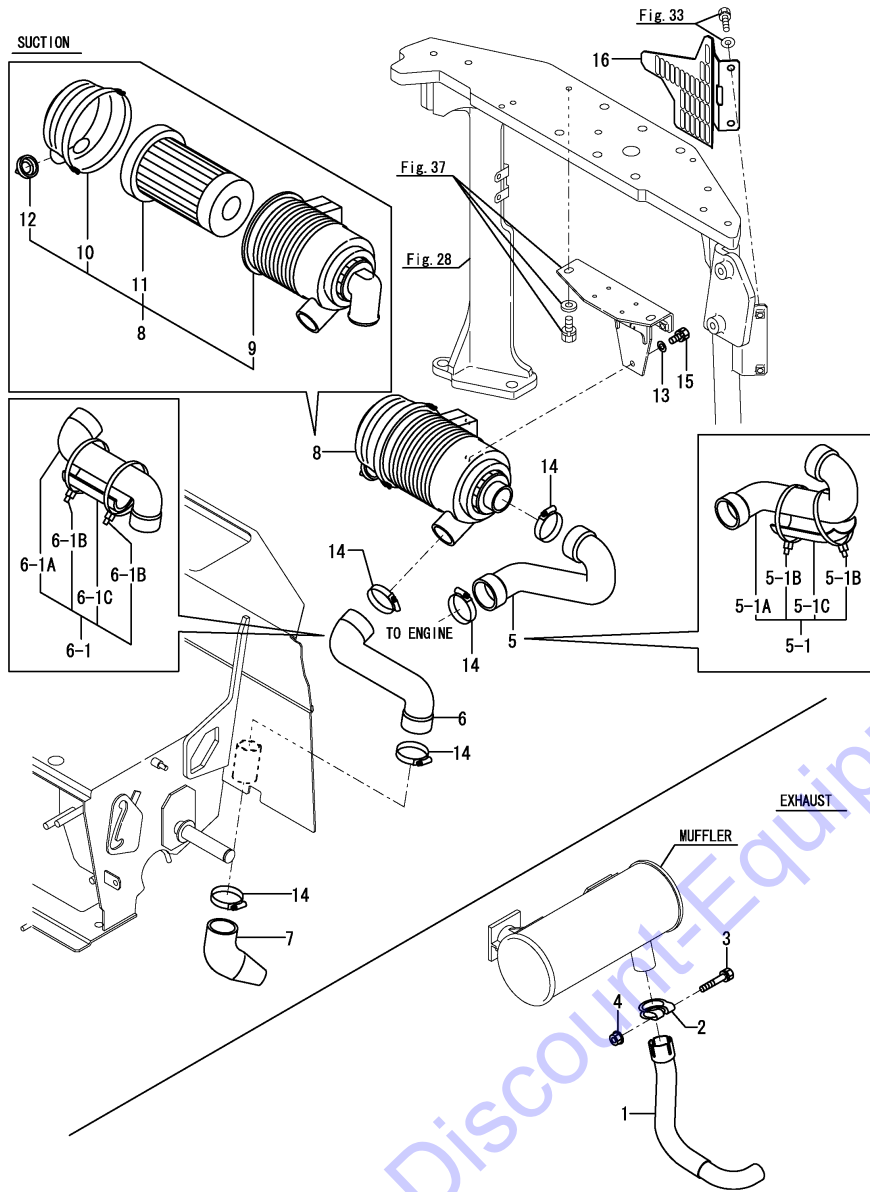
(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-03152	LABEL,LIFT Q US	1	1	1					
1-1	1	172469-03153	LABEL, LIFT Q US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1-2	1	172469-03154	LABEL, LIFT Q US	1	1	1					N
		(A=M33952) (B=M33952) (C=M33952)									
2	1	172472-03240	LABEL,PIN US	1	1	1					
2-1	1	172472-03241	LABEL, PIN US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
3	1	172472-03260	LABEL,FINGER	1	1	1					
3-1	1	172472-03261	LABEL, FINGER US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
4	1	172472-03270	LABEL,SAND US	1	1	1					
4-1	1	172472-03271	LABEL, SAND US	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
5	1	172472-03280	LABEL	1	1	1					
5-1	1	172472-03281	LABEL, WARNING HITCH	1	1	1					N
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
6	1	172472-03330	LABEL,LOCK PIN(US)	1	1	1					W
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									

Fig.5. SUCTION PIPE & EXHAUST PIPE



OCS10-G44703 5. SUCTION PIPE & EXHAUST PIPE

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-11350	PIPE,EXH	1	1	1					
2	1	172487-11400	CLAMP	1	1	1					
3	1	26013-100552	BOLT M10X 55	1	1	1					
4	1	26366-100002	NUT M10	1	1	1					
5	1	172A23-11490	HOSE A, AIR CLEANER	1	1	1					
5-1	1	172A23-11470	HOSE A ASSY,AIRCLEAN	1	1	1					N
5-1A	2	172A23-11490	HOSE A, AIR CLEANER	1	1	1					
5-1B	2	172126-11510	BAND 300	2	2	2					
5-1C	2	172A23-11600	INSULATOR,HOSE	1	1	1					
6	1	172A23-11500	HOSE B, AIR CLEANER	1	1	1					
6-1	1	172A23-11480	HOSE B ASSY,AIRCLEAN	1	1	1					N
6-1A	2	172A23-11500	HOSE B, AIR CLEANER	1	1	1					
6-1B	2	172126-11510	BAND 300	2	2	2					
6-1C	2	172A23-11600	INSULATOR,HOSE	1	1	1					
7	1	172456-11500	HOSE C,AIR CLEANER	1	1	1					
8	1	172456-11510	AIR CLEANER ASSY	1	1	1					1
9	2	172456-11590	BODY	1	1	1					
10	2	172456-11600	COVER	1	1	1					1
11	2	129619-12520	ELEMENT, OUTER	1	1	1					
12	2	119808-12540	VALVE, UNLOADER	1	1	1					
12A	1	172125-03950	LABEL, AIR CLEANER	1	1	1					2
12A-1	1	172125-03951	LABEL, AIR CLEANER	1	1	1					N 2
13	1	22137-080000	WASHER 8, POLISHED	2	2	2					
14	1	23000-060000	CLAMP 60	5	5	5					
15	1	26013-080202	BOLT W/WASHER M8X20	2	2	2					
16	1	172487-65160	GUARD,MUFFLER	1	1	1					W

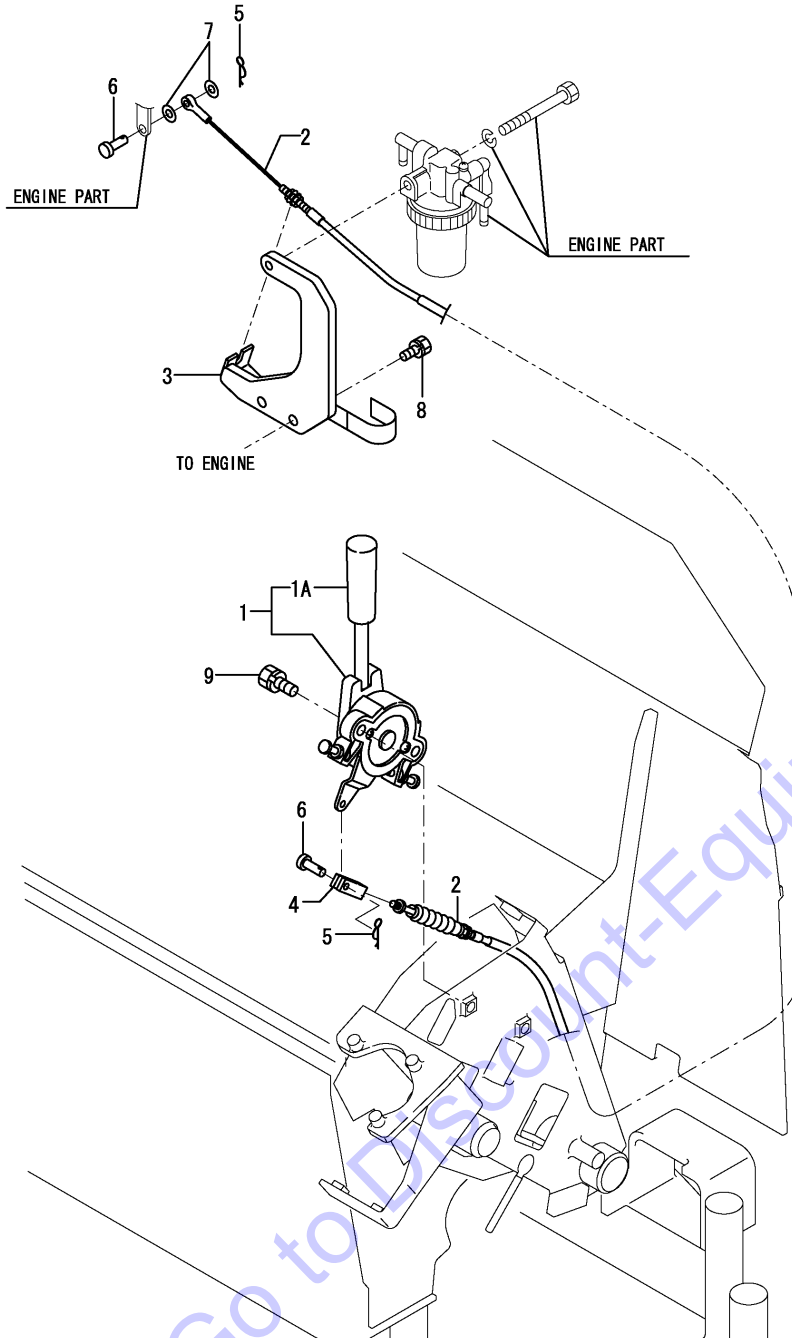
Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.12A.  
 (2)LABELS ARE NOT ILLUSTRATED.



Fig.6. ACCELERATOR LEVER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

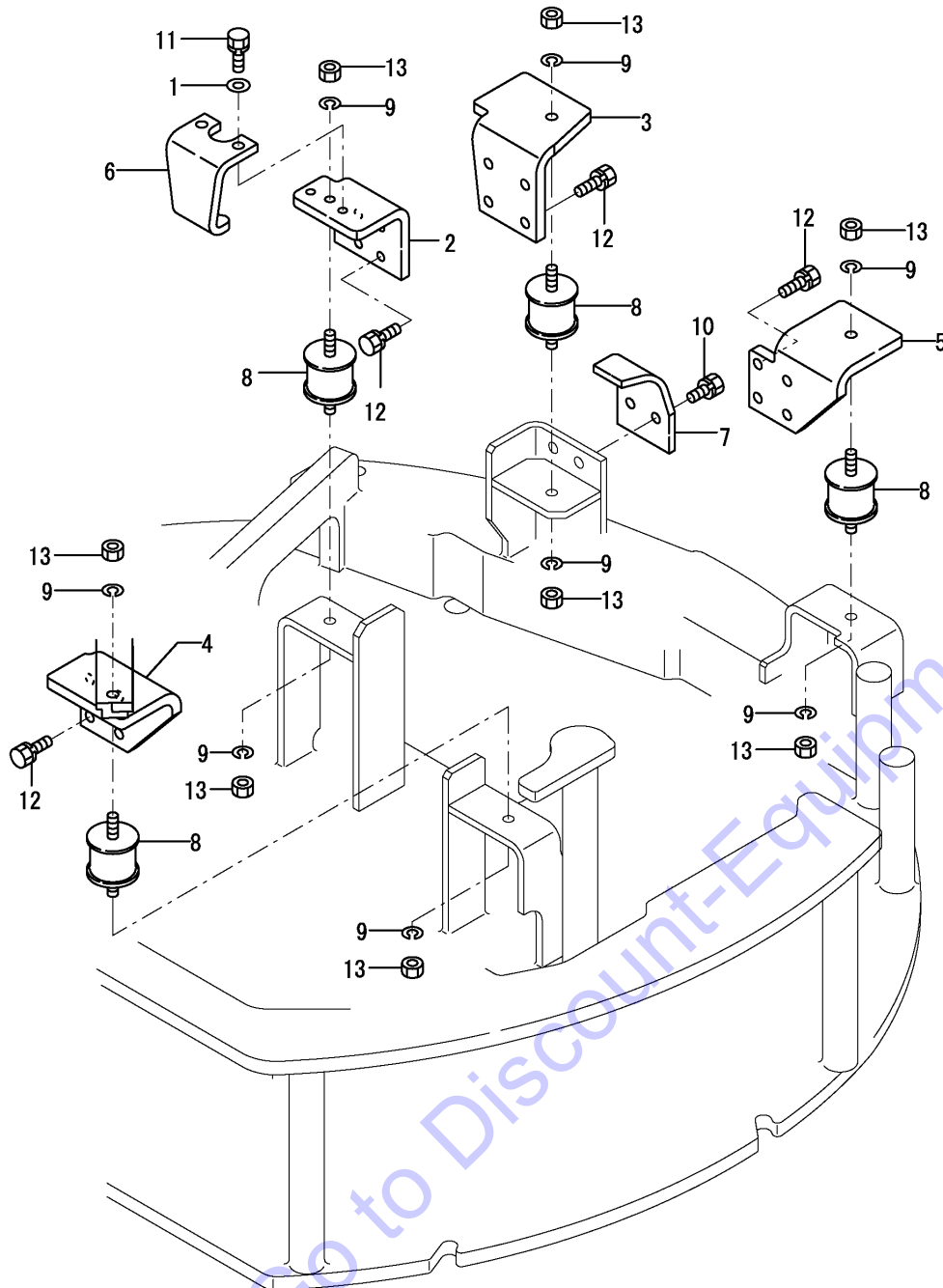


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-12100	LEVER,ACCELERATOR	1	1	1					
1A	2	172165-12140	GRIP(RED)	1	1	1					W
		(A=M/#32289) (B=M/#32289) (C=M/#32289)									
1A-1	2	172A79-12150	GRIP, RED	1	1						N
		(A=MXXXXX) (B=MXXXXX)									
2	1	172469-12110	CABLE, ACCELERATOR	1	1	1					
2-1	1	172469-12111	CABLE, ACCELERATOR	1	1	1					N
		(A=M/#32151) (B=M/#32151) (C=M/#32151)									
3	1	172487-12220	BRACKET	1	1	1					
4	1	172137-12270	JOINT, CABLE	1	1	1					
5	1	1C6281-52310	PIN 6,COME-OFF SNAP	2	2	2					
6	1	1A1040-56900	PIN 6X 17	2	2	2					
7	1	22137-060000	WASHER 6, POLISHED	2	2	2					
8	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					
9	1	26013-100252	BOLT W/WASHER M10X25	2	2	2					

Fig.7. ENGINE MOUNT

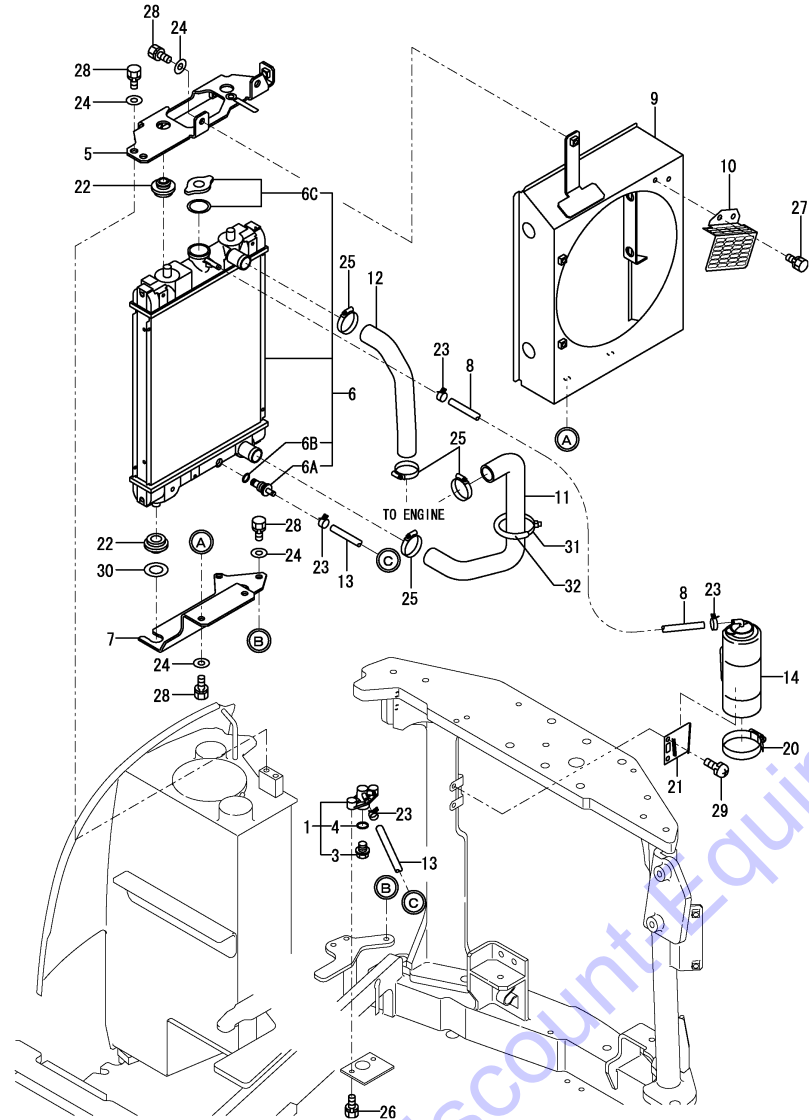
(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER 10	2	2	2					
2	1	172487-13090	MOUNT LF ASSY (ENG	1	1	1					
3	1	172487-13100	MOUNT RE,ENG	1	1	1					
3-1	1	172487-13101 (A=M35842)	MOUNT RF, ENG (B=M35842)	1	1	1					N
4	1	172A23-13120	MOUNT LR ASSY (C=M35842)	1	1	1					
5	1	172456-13120	MOUNT RR,ENG	1	1	1					
6	1	172456-13140	STOPPER ,ENG	1	1	1					
7	1	172456-13150	STOPPER RF,ENG	1	1	1					
8	1	172179-13211	RUBBER, ANTI VIBRAT.	4	4	4					
9	1	22217-100000	SPRING WASHER 10	8	8	8					
10	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					
11	1	26013-100252	BOLT W/WASHER M10X25	2	2	2					
12	1	26013-100252	BOLT W/WASHER M10X25	16	16	16					
13	1	26716-100002	NUT 10	8	8	8					

Fig.8. RADIATOR & MOUNT



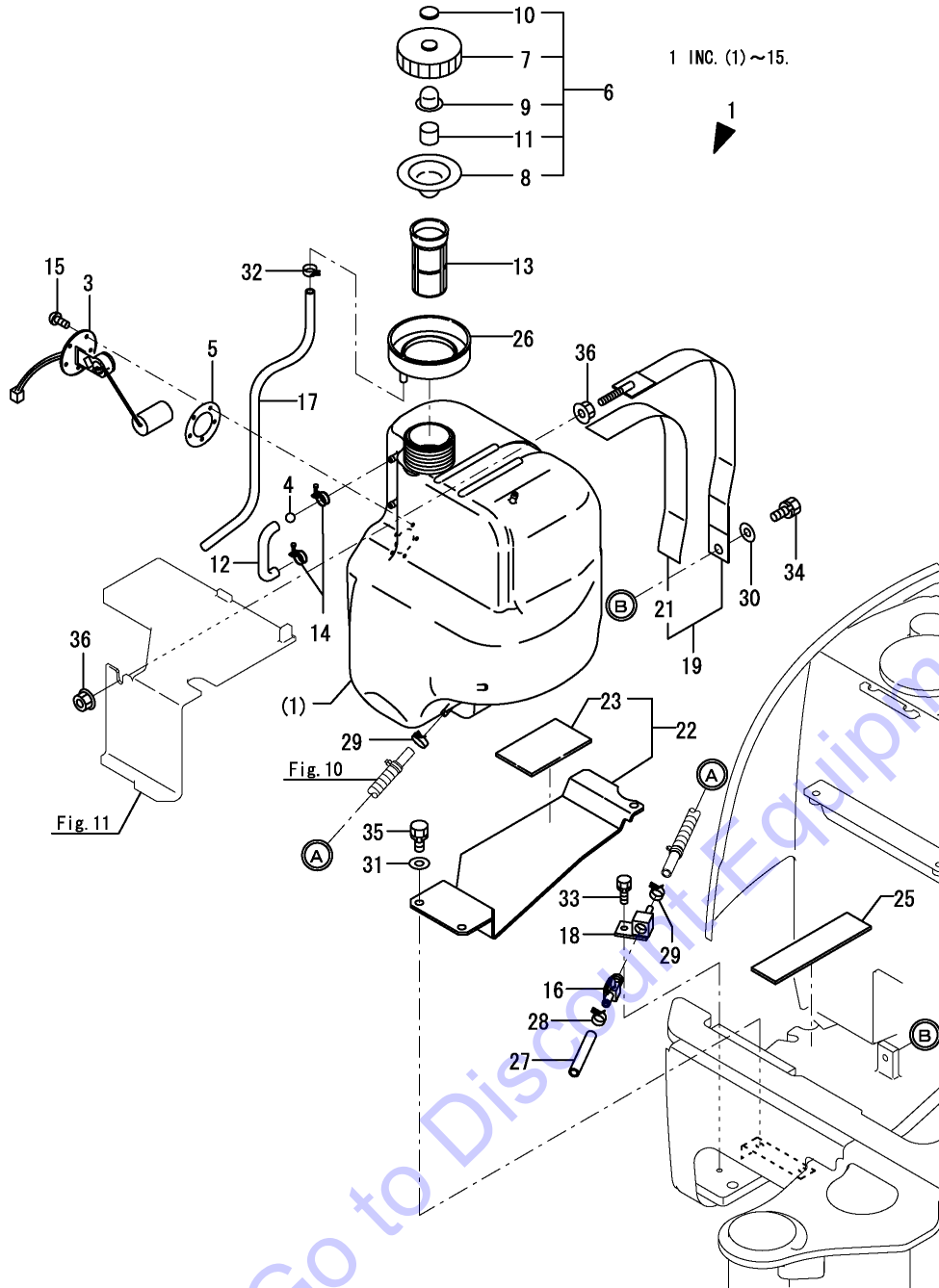
(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-13210	COCK ASSY,2-WAY	1	1	1					
3	2	121250-49121	PLUG	1	1	1					
4	2	24311-000160	O-RING 1A P-16.0	1	1	1					
5	1	172A23-13320	BRACKET ASSY,RADIATO	1	1	1					2
5A	1	124764-44920	LABEL, ANTI-FREEZING	1	1	1					3
5A-1	1	172A38-03210	LABEL,ANTI-FREEZING	1	1	1					N 3
5A-2	1	172A38-03211	LABEL,ANTI-FREEZING	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
6	1	172482-13300	RADIATOR ASSY	1	1	1					
6A	2	172460-13230	PLUG, DRAIN COCK	1	1	1					
6B	2	172460-13240	ORING	1	1	1					
6C	2	172456-13310	CAP ,ASSY	1	1	1					
7	1	172A23-13310	BRACKET,RADIATOR	1	1	1					
8	1	172157-13381	HOSE	1	1	1					
9	1	172A23-13411	SHROUD ASSY	1	1	1					
10	1	172A23-13460	GUARD,FAN	1	1	1					
11	1	172A23-13510	CW-T(A)	1	1	1					
12	1	172A23-13520	CW-T(B)	1	1	1					
13	1	172734-14620	PIPE L=300, FUEL	1	1	1					
14	1	119813-44510	SUB-TANK ASSY	1	1	1					1
19A	1	124764-44810	LABEL,SUB-TANK	1	1	1					3
19A-1	1	172A38-03200	LABEL, SUB-TANK US	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
19A-2	1	172A38-03201	LABEL, SUB-TANK US	1	1	1					N 3
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
20	1	124450-44550	CLAMP, SUB-TANK	1	1	1					
21	1	121256-44600	BRACKET, SUB TANK	1	1	1					
22	1	119255-44660	RUBBER	4	4	4					
23	1	124766-59050	CLAMP 12	4	4	4					
24	1	22137-100000	WASHER 10,POLISHED	8	8	8					
25	1	23001-041000	CLIP 41,HOSE	4	4	4					
26	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					
27	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					
28	1	26013-100202	BOLT W/WASHER M10X20	8	8	8					
29	1	26022-080162	SCREW M 8X 16	2	2	2					
30	1	172156-81430	SHIM 25-45-1.6	1	1	1					
31	1	172126-11510	BAND 300	1							W
		(A=M/#30501)									
31-1	1	172126-11510	BAND 300	2	2	2					K
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
32	1	172A23-13530	HOSE	1	1	1					W
		(A=M/#30501) (B=M/#30501) (C=M/#30501)									

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.19A.  
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.5A.  
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.9. FUEL TANK

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

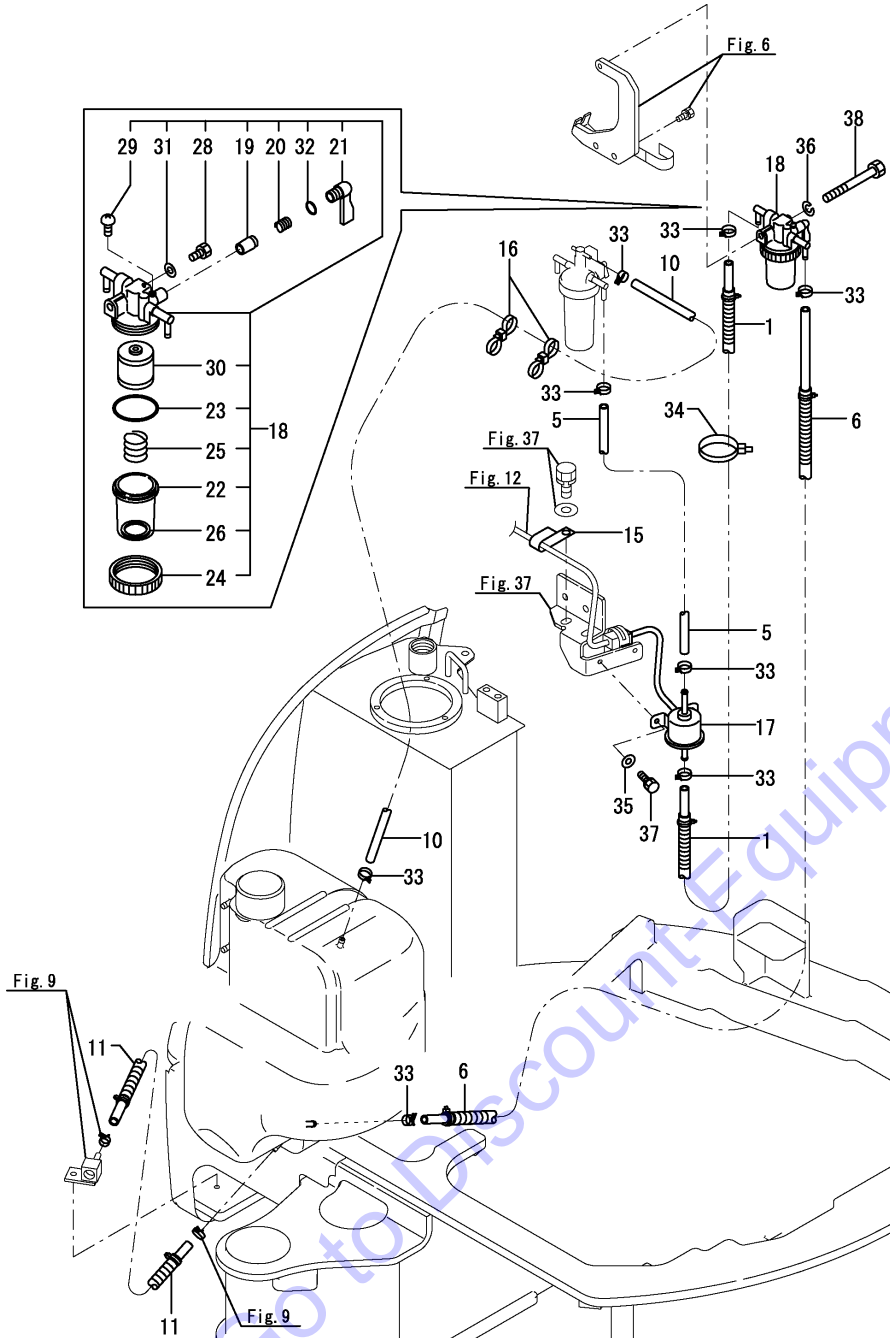


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-14111	TANK ASSY, FUEL	1	1	1					
1-1	1	772456-14112	TANK ASSY, FUEL	1	1	1					N
		(A=M36153) (B=M36153) (C=M36153)									
3	2	172456-14151	GAUGE UNIT, FUEL	1	1	1					
3-1	2	172456-14152	GAUGE UNIT, FUEL	1	1	1					R
		(A=M35336) (B=M35336) (C=M35336)									
4	2	172447-14160	FLOAT	1	1	1					
5	2	172162-14200	GASKET	1	1	1					
6	2	172444-14200	FUEL CAP	1	1	1					
7	3	172444-14450	CAP	1	1	1					
8	3	172444-14460	GASKET	1	1	1					
9	3	172444-14470	GASKET	1	1	1					
10	3	172444-14480	WASHER	1	1	1					
11	3	172444-14490	SPONGE	1	1	1					
12	2	172458-14202	HOSE, FUEL GAUGE	1	1	1					
12-1	1	172458-14203	HOSE, FUEL GAUGE	1	1	1					N
		(A=M33499) (B=M33499) (C=M33499)									
13	2	172183-14250	FILTER (FUEL)	1	1	1					
14	2	23000-01300	CLAMP 13	2	2	2					
15	2	26022-050122	SCREW M 5X 12	5	5	5					
16	1	104200-11920	COCK	1	1	1					
16-1	1	172A69-14230	VALVE, FUEL DRAIN	1	1	1					N
		(A=M35842) (B=M35842) (C=M35842)									
17	1	172444-14260	HOSE, FUEL	1	1	1					
18	1	172444-14270	JOINT	1	1	1					
19	1	172456-14300	CLAMP	1	1	1					
21	2	172456-14330	RUBBER	1	1	1					
22	1	172456-14340-1	PLATE ASSY	1	1	1					
22-1	1	172456-14340-2	PLATE ASSY	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
22-2	1	172456-14341-1	PLATE ASSY (GRAY:49)	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
23	2	172444-14130	PLATE A	1	1	1					
25	1	172458-14340	RUBBER PLATE A,FO	1	1	1					
26	1	172458-14370	SOUCER, FUEL OIL	1	1	1					
27	1	172444-14410	HOSE	1	1	1					
28	1	106990-44660	CLIP, HOSE	1	1	1					
29	1	124766-59050	CLAMP 12	2	2	2					
30	1	22137-100000	WASHER 10, POLISHED	1	1	1					
31	1	22137-100000	WASHER 10, POLISHED	3	3	3					
32	1	23080-013000	CLAMP 13, HOSE	1	1	1					
33	1	26013-080202	BOLT W/WASHER M8X20	1	1	1					
34	1	26013-100202	BOLT W/WASHER M10X20	1	1	1					
35	1	26013-100202	BOLT W/WASHER M10X20	3	3	3					
36	1	26367-100002	U-NUT M10	2	2	2					

Fig.10. FUEL LINE

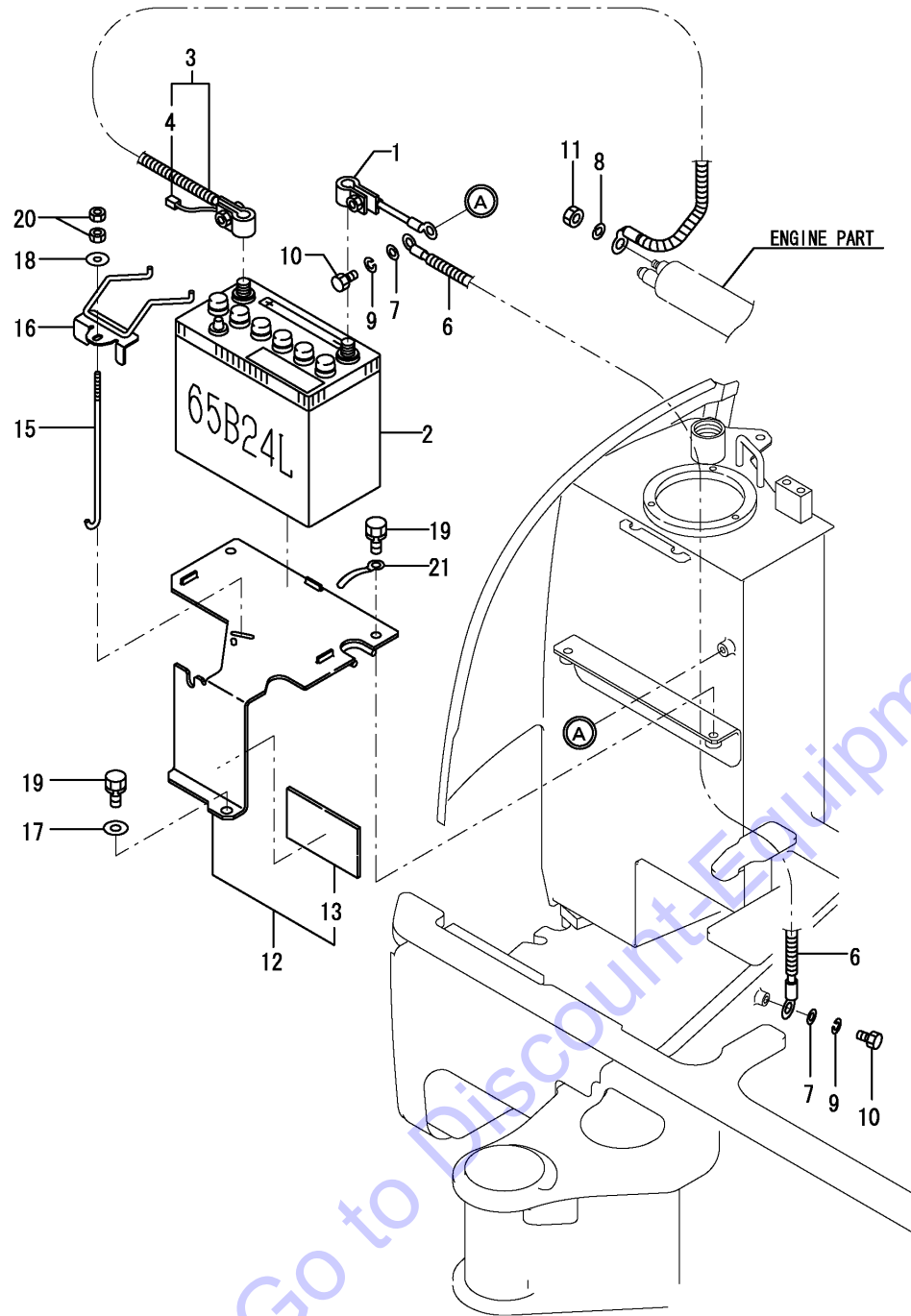
(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172186-13810	HOSE ASSY	1	1	1					
5	1	172171-14610	HOSE, FUEL	1	1	1					
6	1	172456-14610	HOSE,FO1470 ASSY	1	1	1					
10	1	172122-14620	PIPE, FUEL	1	1	1					
10-1	1	172A23-14100	PIPE (C), FUEL	1	1	1					N
		(A=M32861) (B=M32861) (C=M32861)									
10-2	1	172487-14520	HOSE	1	1	1					N
		(A=MZZZZZ)									
11	1	172456-14630	HOSE,FO 150 ASSY	1	1	1					
15	1	172126-16540	CLAMP	1							Z
		(A=M/#31474)									
16	1	172137-16560	BAND	2	2	2					
16-1	1	172126-11510	BAND	5	5	5					N
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
17	1	129612-52100	PUMP ASSY, FEED	1	1	1					
18	1	129335-55700	SEPARATOR ASSY	1	1	1					
19	2	104200-55321	VALVE	1	1	1					
20	2	104200-55330	SPRING	1	1	1					
21	2	104200-55341	HANDLE	1	1	1					
22	2	124064-55510	COVER	1	1	1					
23	2	102103-55520	O-RING	1	1	1					
24	2	110250-55610	RING	1	1	1					
25	2	121257-55720	SPRING	1	1	1					
26	2	121257-55731	FLOAT	1	1	1					
28	2	101720-55750	PLUG	2	2	2					
29	2	104200-55750	SCREW	1	1	1					
30	2	171081-55910	SCREEN	1	1	1					
31	2	23418-060000	GASKET	2	2	2					
32	2	24311-240100	O-RING	1	1	1					
33	1	124766-59050	CLIP	8	8	8					
34	1	172122-79930	CLAMP, HOSE	1	1	1					
35	1	22137-060000	WASHER	2	2	2					
36	1	22217-080000	WASHER, SPRING	1	1	1					
37	1	26013-060202	BOLT	2	2	2					
37-1	1	26013-060162	BOLT	2	2	2					N
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									
38	1	26116-080702	BOLT	1	1	1					

Fig.11. BUTTERY

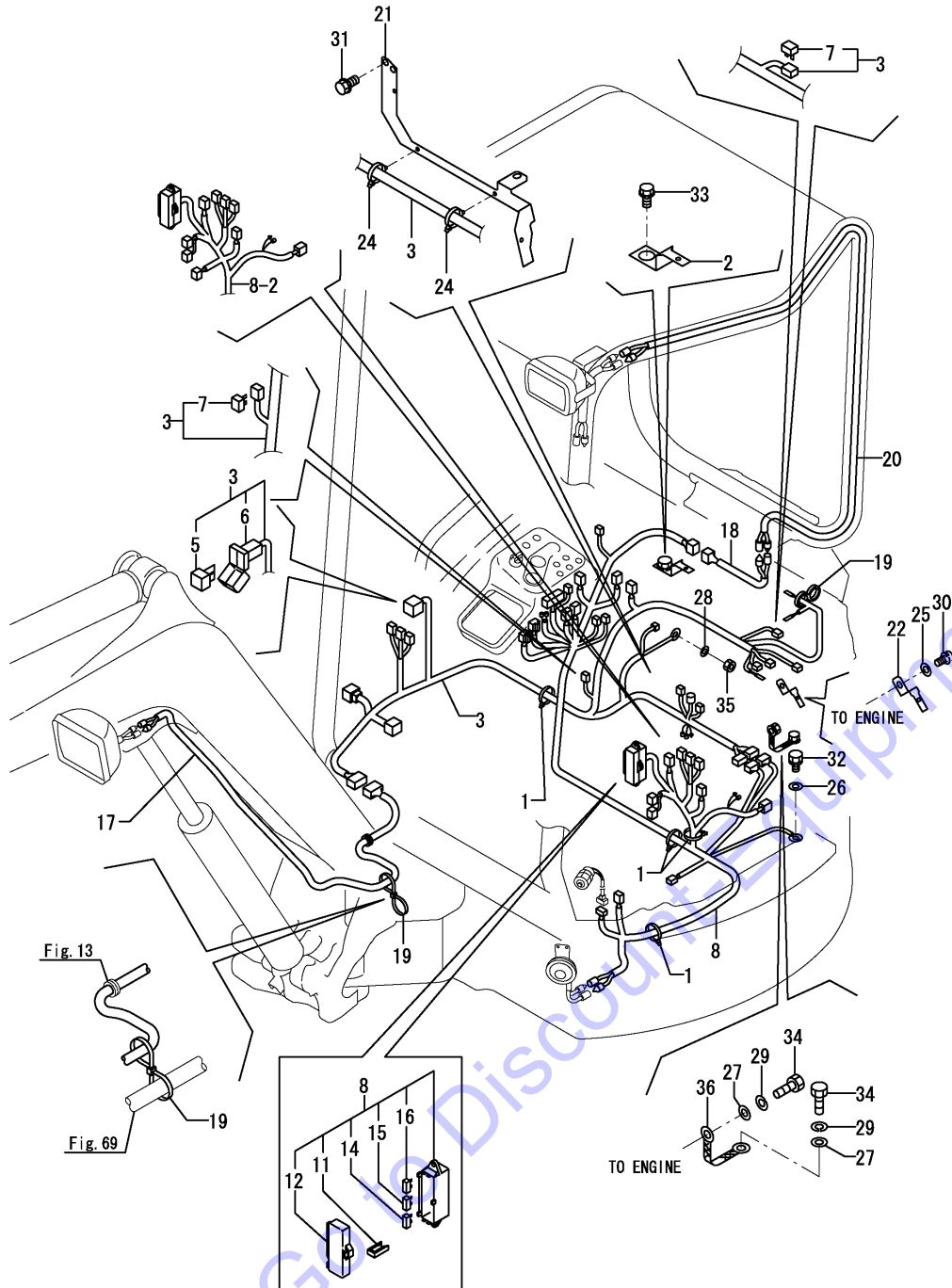


(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-16110	HARNES,BATTERY(-)	1	1	1					
2	1	172458-16110	BATTERY	1	1	1					
3	1	172456-16200	CORD,BATTERY(+)	1	1	1					
4	2	172458-16140	HARNES C	1	1	1					
6	1	172456-16210	CORD,BATTERY(-)	1	1	1					
7	1	22137-080000	WASHER 8, POLISHED	2	2	2					
8	1	22217-080000	WASHER, 8	1	1	1					
9	1	22217-080000	WASHER, 8	2	2	2					
10	1	26116-080162	BOLT 8X16	2	2	2					
11	1	26716-080002	NUT M 8	1	1	1					
12	1	172456-16100	BRACKT,BATTERY	1	1	1					
12-1	1	172456-16101	BRACKT,BATTERY	1	1	1					N
(A=M45001) (B=M45001) (C=M45001)											
13	2	172444-14130	PLATE A	1	1	1					
15	1	172725-16160	ROD, CLAMP	1	1	1					
16	1	172458-16300	CLAMP,BATTERY	1	1	1					
17	1	22137-100000	WASHER 10,POLISHED	1	1	1					
18	1	22157-060000	WASHER 6	1	1	1					
19	1	26013-100202	BOLT W/WASHER M10X20	3	3	3					
20	1	26716-060002	NUT 6	2	2	2					
21	1	172126-16540	CLAMP 10X70	1	1	1					W
(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)											

Fig.12. ELECTRIC PART(WIRING)

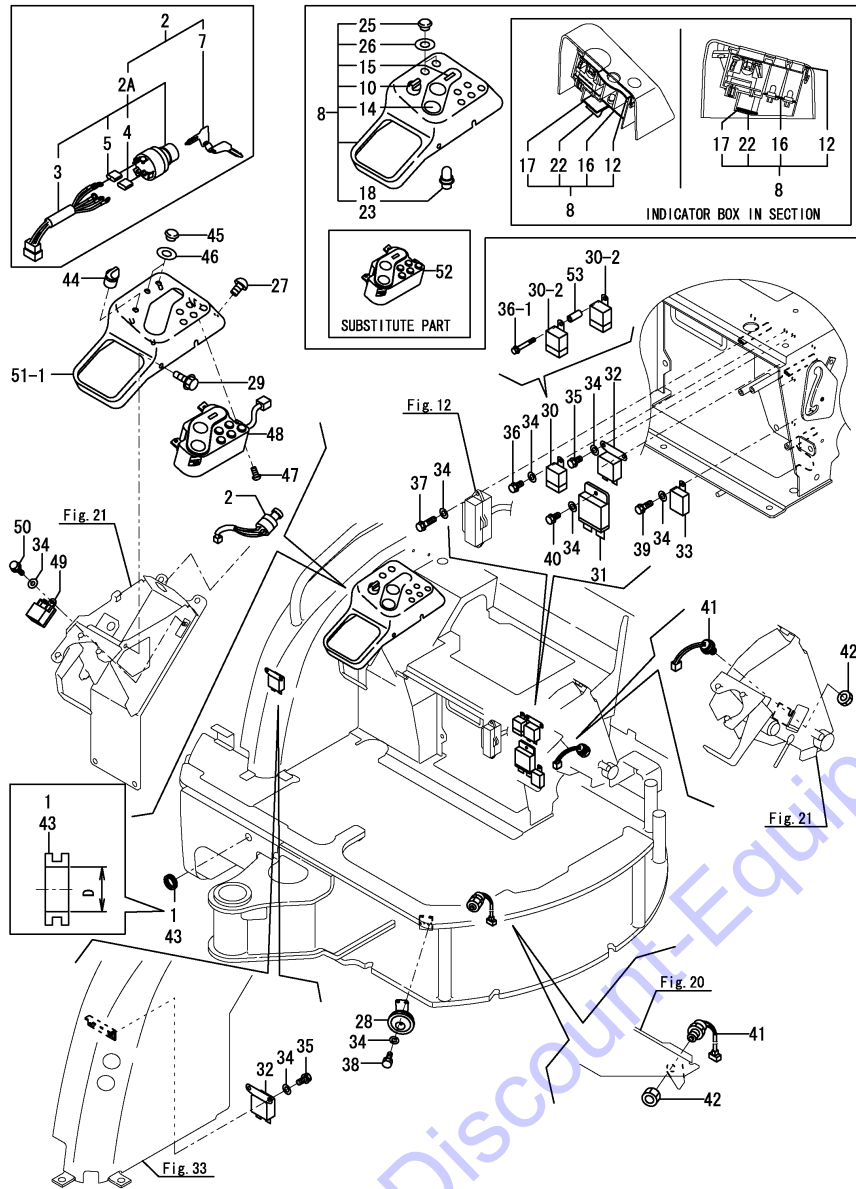


(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND 300	4	4	4					
1-1	1	172126-11510	BAND 300	8	8	8					K
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
2	1	172A23-14200	SUPPORT,CONNECTOR	1	1	1					
3	1	172A23-16500	HARNESS ASSY ,A	1	1	1					
5	2	172458-16550	HUSE,SLOW BLOW (50A)	1	1	1					
6	2	172447-17140	HOUSING	1	1	1					
7	2	172648-16600	DIODE	2	2	2					
8	1	172A36-16520	HARNESS ASSY, B US	1	1	1					
8-1	1	172A36-16521	HARNESS,B,US ASSY	1	1	1					N
		(A=M35469) (B=M35469) (C=M35469)									
8-2	1	172A36-16522	HARNESS ASSY,B US	1	1	1					S
		(A=M37431) (B=M37431) (C=M37431)									
11	2	172175-17120	PULLER	1	1	1					
12	2	172187-17220	COVER	1	1	1					
14	2	29420-050000	FUSE, 5A	2	2	2					
15	2	29420-150000	FUSE, 15A	6	6	6					
16	2	29420-300000	FUSE B30	2	2	2					
17	1	172456-16530	HARNESS,BOOM LAMP	1	1	1					
18	1	172A23-16540	HARNESS,CONECT	1	1	1					
19	1	172137-16560	BAND	2	2	2					
20	1	172458-16561	HARNESS,CANOPY LAMP	1	1	1					
20-1	1	172458-16562	HARNESS,CANOPY LAMP	1	1	1					N
		(A=M/#30865) (B=M/#30865) (C=M/#30865)									
21	1	172A23-16600	SUPORT ASSY,HARNESS	1	1	1					
22	1	172460-16700	STAY A	1	1	1					
24	1	194680-51670	BAND	4	4	4					
25	1	22137-080000	WASHER 8, POLISHED	1	1	1					
26	1	22137-100000	WASHER 10,POLISHED	1	1	1					
27	1	22137-120000	WASHER 12,POLISHED	2	2	2					
28	1	22217-060000	SPRING WASHER 6	1	1	1					
29	1	22217-120000	SPRING WASHER 12	2	2	2					
30	1	26013-080162	BOLT W/WASHER M8X16	1	1	1					
31	1	26013-100162	BOLT M10X 16	2	2	2					
32	1	26013-100202	BOLT W/WASHER M10X20	1	1	1					
33	1	26013-100202	BOLT W/WASHER M10X20	1	1	1					
34	1	26116-120162	BOLT M12X 16 PLATED	2	2	2					
35	1	26716-060002	NUT 6	1	1	1					
36	1	933171-15801	WIRE, EARTH	1	1	1					

Fig.13. ELECTRIC PART(EQUIPMENT)



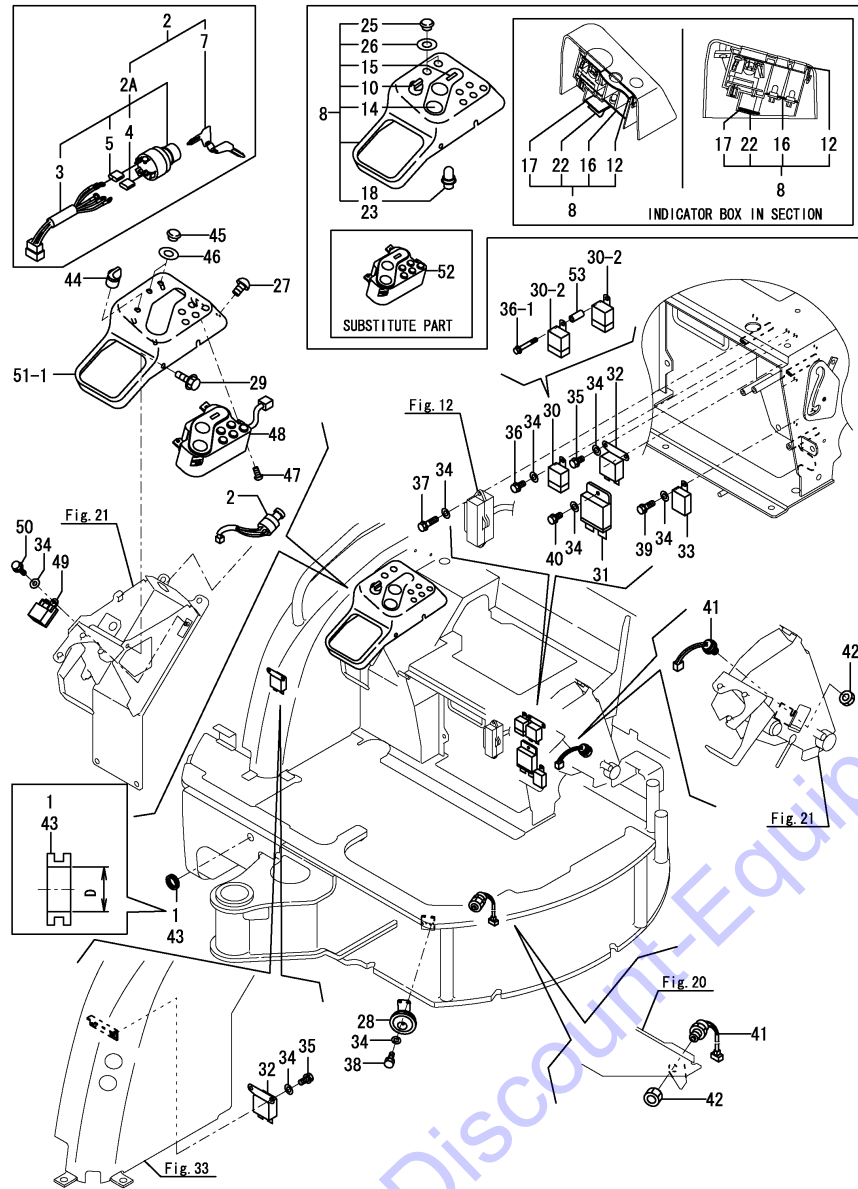
Remarks  
 (1)D=REF.NO.1 15MM,NO.43 25MM.  
 (2)HOUR METER = ANALOG TYPE.  
 ONLY THE MONITOR PORT COPIES IN  
 REF.NO.52.  
 (3)HOUR METER = L.C.D. TYPE.

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	172187-16560	GROMMET	1							Z	1	
		(A=M/#32722)											
2	1	172187-17100	SWITCH, START	1	1	1							
2A	2	172A47-17210	CYLINDER ASSY,KEY	1	1	1						W	
		(A=M36045) (B=M36045) (C=M36045)											
3	3	172187-17070	CODE	1	1	1							
4	3	172187-17080	COVER	3	3	3							
5	3	172187-17090	COVER	2	2	2							
7	2	933110-00301	KEY ASSY	1	1	1							
8	1	172458-17501	BOX,INDICATOR(CANOPY	1								Z	2
		(A=M35469)											
10	2	172187-17280	SWITCH ASSY, LIGHT	1	1	1							
12	2	172187-17320	PACKING	1	1	1							
14	2	172187-17341	GAUGE ASSY	1	1	1							
15	2	172187-17350	METER ASSY, HOUR	1	1	1							
16	2	172187-17360	PRINT,CIRCUIT	1	1	1							
17	2	172187-17371	CIRCUIT ASSY	1	1	1							
18	2	172187-17380	BULB,T6.5-13.5V-2W	4	4	4							
22	2	172187-17470	PLATE	1	1	1							
23	2	172187-17480	BULB,T5-14V-2W	2	2	2							
25	2	172187-17560	CAP	2	2	2							
26	2	172187-17570	GASKET	2	2	2							
27	1	172458-46720	BOLT 8X20	1	1	1							
28	1	194151-57100	HORN	1	1	1							
29	1	172519-63240	BOLT 8X 16	3	3	3							
30	1	119247-77100	RELAY, SAFETY	1	1	1							
30-1	1	198461-52950	RELAY CA,TYPE C	1	1	1						R	
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)											
30-2	1	198461-52950	RELAY CA,TYPE C	2	2	2						K	
		(A=M37431) (B=M37431) (C=M37431)											
31	1	119802-77200	RELAY, SAFETY	1	1	1							
32	1	119650-77910	RELAY ASSY, GLOW	2	2	2							
33	1	129211-77920	TIMER	1	1	1							
34	1	22137-060000	WASHER 6, POLISHED	12	12	12							
34-1	1	22137-060000	WASHER 6, POLISHED	10	10	10						K	
		(A=M37431) (B=M37431) (C=M37431)											
35	1	26013-060122	BOLT M 6X 12	4	4	4							
36	1	26013-060122	BOLT M 6X 12	1	1	1							
36-1	1	26014-060402	BOLT M 6X 40	1	1	1						S	
		(A=M37431) (B=M37431) (C=M37431)											
37	1	26013-060122	BOLT M 6X 12	2	2	2							
38	1	26013-060162	BOLT M 6X 16	2	2	2							
38-1	1	26013-060122	BOLT M 6X 12	2	2	2						N	
		(A=M37431) (B=M37431) (C=M37431)											
39	1	26013-060162	BOLT M 6X 16	1	1	1							
40	1	26013-060202	BOLT M 6X 20	2	2	2							
41	1	194464-52190	SWITCH, SAFETY START	2	2	2							
42	1	26776-180002	NUT M18,LOCK	2	2	2							
43	1	933171-15680	GROMMET 40X13	1	1	1						W	1
		(A=M/#32722) (B=M/#32722) (C=M/#32722)											
44	1	172187-17280	SWITCH ASSY, LIGHT	1	1	1						W	



Fig.13. ELECTRIC PART(EQUIPMENT)

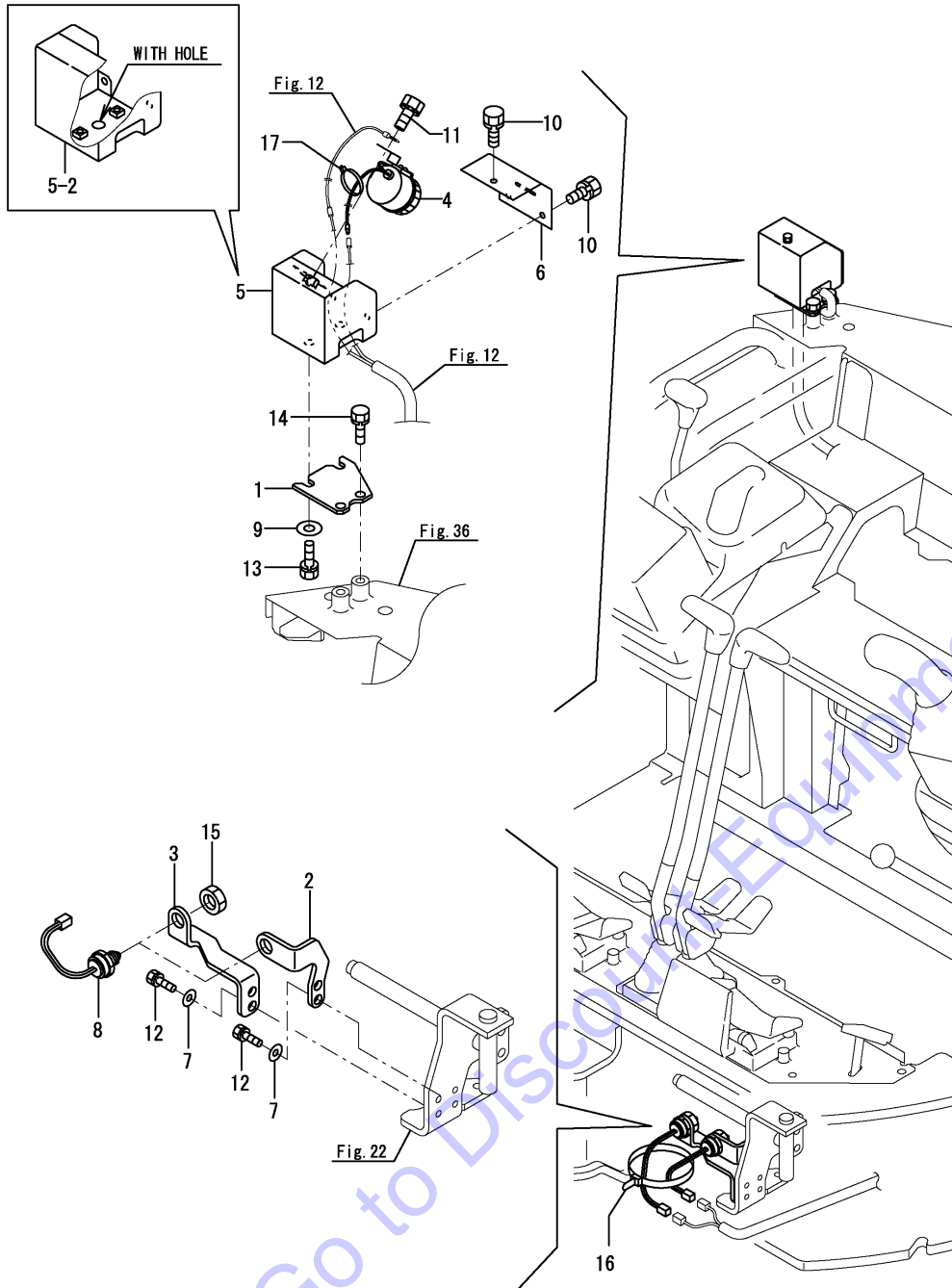


Remarks  
 (1)D=REF.NO.1 15MM,NO.43 25MM.  
 (2)HOUR METER = ANALOG TYPE.  
 ONLY THE MONITOR PORT COPIES IN  
 REF.NO.52.  
 (3)HOUR METER = L.C.D. TYPE.

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
45	1	(A=M35469)	(B=M35469)	(C=M35469)								
		172187-17560		CAP	2	2	2					W
		(A=M35469)	(B=M35469)	(C=M35469)								
46	1	172187-17570		GASKET	2	2	2					W
		(A=M35469)	(B=M35469)	(C=M35469)								
		22877-400121		SCREW 4X12	4	4	4					W
47-1	1	(A=M35469)	(B=M35469)	(C=M35469)								
		172A77-17250		MONITOR ASSY	1	1	1					W
		(A=M35469)	(B=M35469)	(C=M35469)								
48	1	124970-77920		TIMER	1	1	1					W
		(A=M35469)	(B=M35469)	(C=M35469)								
		26014-060202		BOLT M 6X 20	1	1	1					W
49	1	172A25-17200		IN-PANE R,CANOPY	1	1	1					W
		(A=M35469)	(B=M35469)	(C=M35469)								
		(A=M35460)	(B=M35460)	(C=M35460)								
50	1	172A77-17500		MONITOR ASSY	1	1	1					3
		(A=M35469)	(B=M35469)	(C=M35469)								
		172A65-17480		COLLER	1	1	1					W
51-1	1	(A=M37431)	(B=M37431)	(C=M37431)								

Fig.14. TRAVEL ALARM



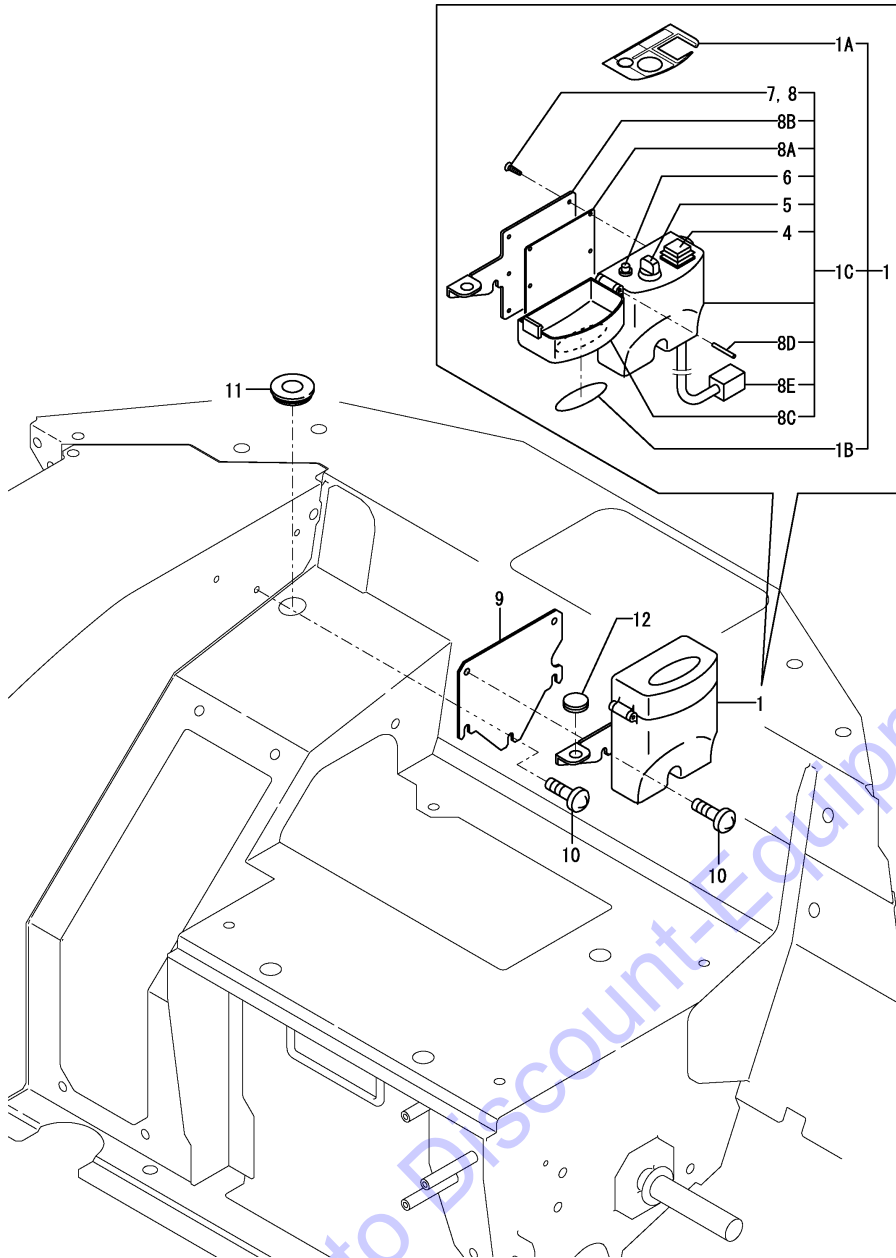
(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-17200	PLATE,ALARM	1	1	1					
1-1	1	172472-17200-Y	PLATE,ALARM	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
2	1	172472-17250	BRACKET A SSW	1	1	1					
3	1	172472-17260	BRACKET B SSW	1	1	1					
4	1	172511-17351	BUZZER, BACK	1	1	1					
5	1	172472-17400	CASE ASSY, ALARM	1	1	1					
5-1	1	172472-17400-1	CASE ASSY,ALARM (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
5-2	1	172472-17401-1	ALARM CASE ASSY (2J)	1	1	1					S
		(A=M35234) (B=M35234) (C=M35234)									
5-3	1	172472-17401-Y	ALARM CASE ASSY	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
6	1	172472-17470	COVER, ALARM CASE	1	1	1					
6-1	1	172472-17470-1	COVER, ALARM CASE	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
6-2	1	172472-17470-Y	COVER, ALARM CASE	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
7	1	172157-45840	WASHER 8X18X4	4	4	4					
8	1	194464-52190	SWITCH, SAFETY START	2	2	2					
9	1	22137-100000	WASHER	2	2	2					
10	1	26013-060122	BOLT	3	3	3					
11	1	26013-080122	BOLT	1	1	1					
12	1	26013-080252	BOLT	4	4	4					
13	1	26013-100252	BOLT	2	2	2					
14	1	26013-100252	BOLT	2	2	2					
15	1	26776-180002	NUT	2	2	2					
16	1	933152-09280	BAND	3	3	3					
17	1	933168-55770	BAND	1	1	1					

Fig.15. ELECTRIC PART(SWITCH BOX : QUICK COUPLER SPEC.)

(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=



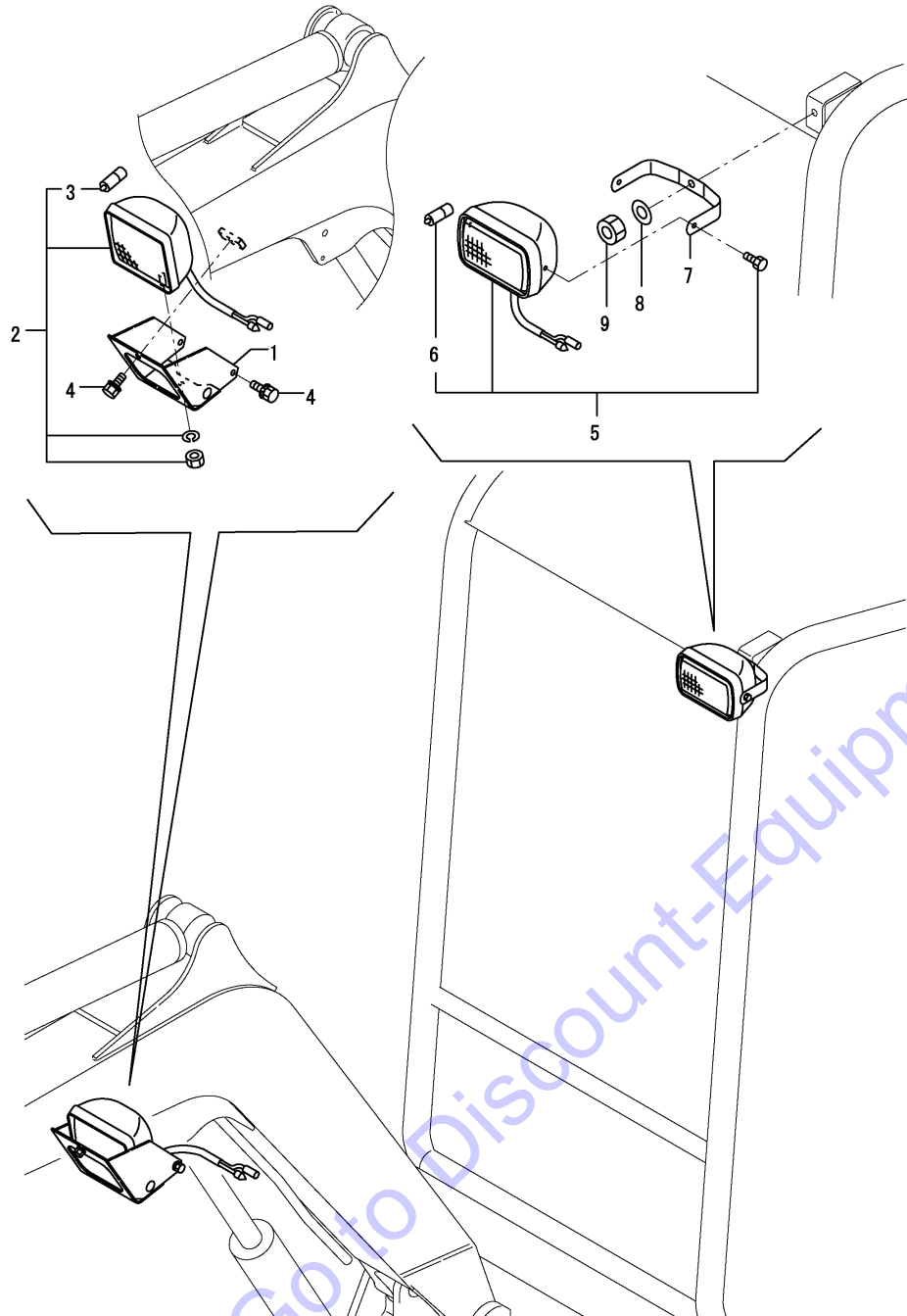
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17110 (A=M/#35241) (B=M/#35241) (C=M/#35241)	SWITCH BOX(EX)	1	1	1					W
1A	2	172472-03290 (A=M/#35241) (B=M/#35241) (C=M/#35241)	LABEL, SWITCH	1	1	1					W
1B	2	172472-03300 (A=M/#35241) (B=M/#35241) (C=M/#35241)	LABEL, COVER	1	1	1					W
1C	2	172958-17101 (A=M/#35241) (B=M/#35241) (C=M/#35241)	BOX, SWITCH	1	1	1					W 1
4	3	172958-17140	SWITCH ASSY(GENERA	1	1	1					1
5	3	172958-17150	SWITCH ASSY(COTROLER	1	1	1					1
6	3	172958-17160	INDICATER LAMP(CP	1	1	1					1
7	3	172958-17170	TAPPING SCREWS	1	1	1					1
7-1	3	172958-17170 (A=M/#31849) (B=M/#31849) (C=M/#31849)	TAPPING SCREWS	6	6	6					K 1
8	3	172958-17180	TAPPING SCREWS	1	1	1					1
8-1	3	172958-17180 (A=M/#31849) (B=M/#31849) (C=M/#31849)	TAPPING SCREWS	2	2	2					K 1
8A	3	172958-17190	PACKING	1	1	1					1
8B	3	172958-17200	BRACKET	1	1	1					1
8C	3	172958-17210	CASE, UPPER	1	1	1					1
8D	3	22351-030028	SPRING PIN 3X28	1	1	1					1
8E	3	172958-17220 (A=M/#32563) (B=M/#32563) (C=M/#32563)	CODE CP 4P	1	1	1					W 1
9	1	172A30-17200	BRACKET ASSY,Q HITCH	1	1	1					
10	1	172137-46210	SCREW	5	5	5					
11	1	172958-64500	PLUGE 28X302 Q	1	1	1					
12	1	172187-64900	PLUG	1	1	1					

Remarks  
 (1)LEVEL CHANGED.

Fig.16. WORK LAMP & CANOPY LAMP

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

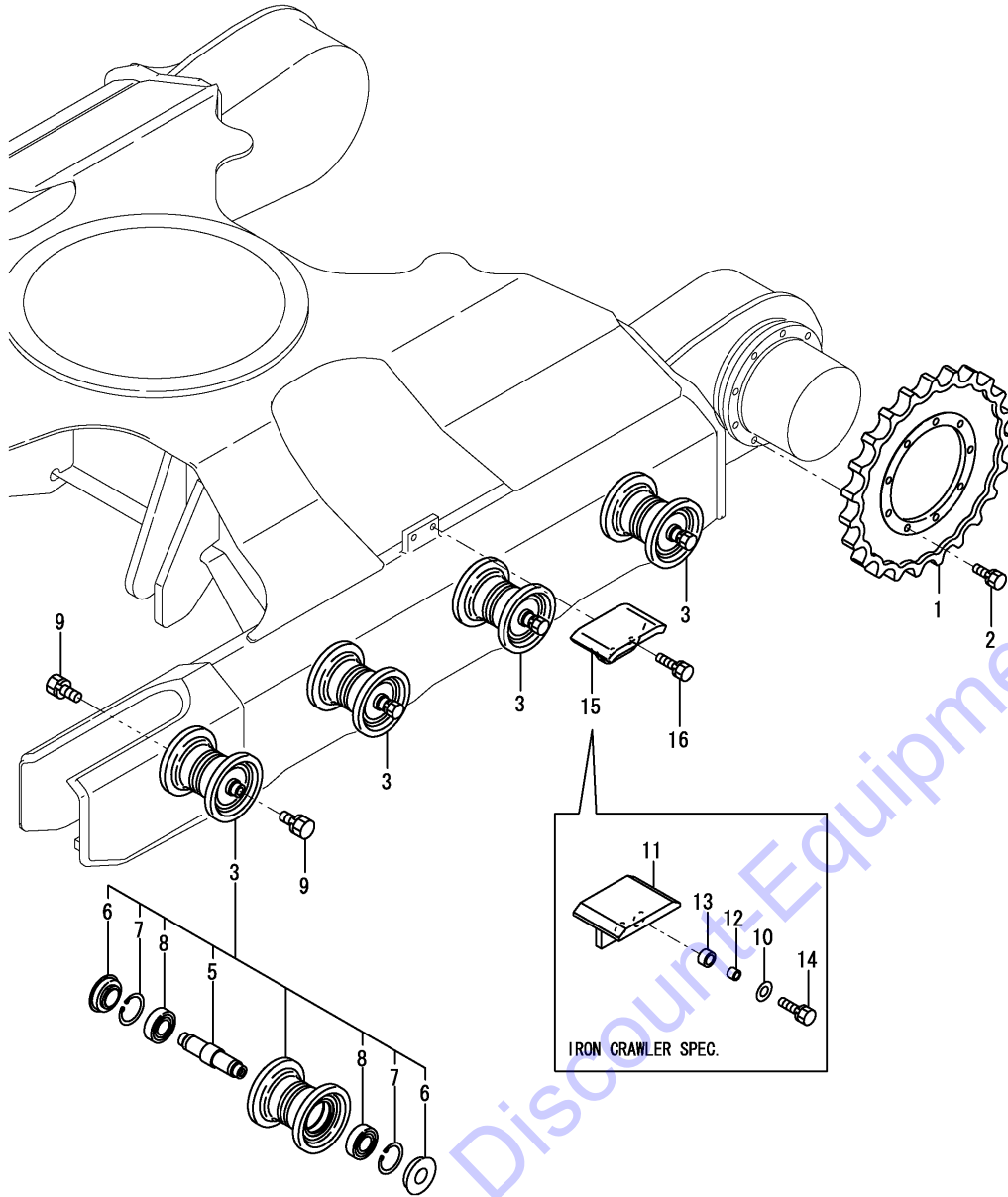


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-17400-1	COVER, LAMP	1	1	1					
1-1	1	172456-17400-2	COVER, LAMP(YELLOW2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
1-2	1	172456-17401-2	COVER, LAMP(YELLOW2J)	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
1-3	1	172456-17401-Y	COVER, LAMP	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
2	1	172458-17450	LAMP, WORK	1	1	1					
3	2	172187-17540	BULB	1	1	1					
4	1	26014-080202	BOLT	3	3	3					
5	1	172458-17400	LAMP	1	1	1					
6	2	172458-17420	BULB	1	1	1					
7	1	172458-17410-1	STAY, LAMP	1	1	1					
7-1	1	172458-17410	STAY, LAMP	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
7-2	1	172458-17410-Y	STAY, LAMP	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
8	1	22137-100000	WASHER	1	1	1					
9	1	26346-100002	NUT	1	1	1					

Fig.17. SPROCKET & ROLLER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



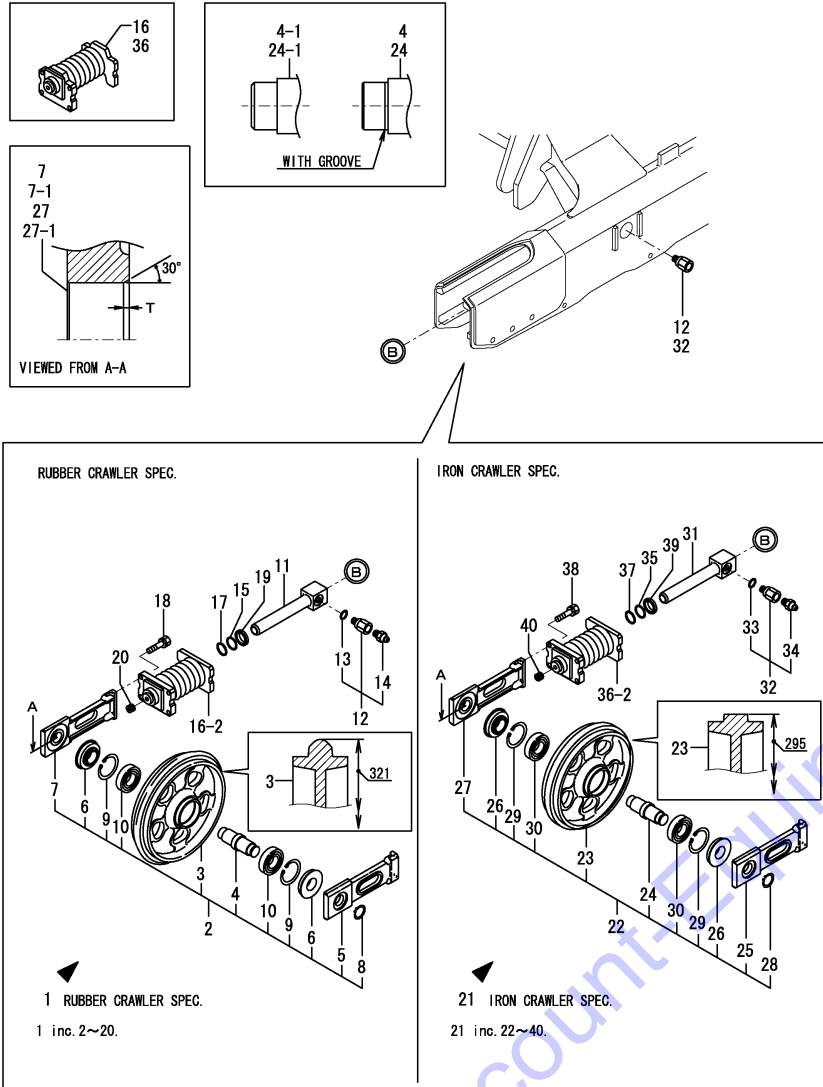
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-29100-1	SPROCKET	2	2	2					
1-1	1	172173-29100-2	SPROCKET	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	1	26013-100252	BOLT W/WASHER M10X25	18	18	18					
3	1	772456-37301-1	ROLLER ASSY, TRACK	8	8	8					
3-1	1	172487-37050-2	ROLLER ASSY, TRACK	8	8	8					N
		(A=M/#32860) (B=M/#32860) (C=M/#32860)									
3-2	1	172487-37050-1	ROLLER ASSY, TRACK	8	8	8					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
5	2	172456-37320	SHAFT,ROLLER	8	8	8					
6	2	1E6140-73420	SEAL QLF255218, OIL	16	16	16					
7	2	22252-000520	CIRCLIP 52	16	16	16					
8	2	24101-062054	BEARING #6205	16	16	16					
9	1	26013-120252	BOLT M12X 25	16	16	16					
10	1	172110-36010	COLLAR	4	4	4					1
11	1	172173-37500-2	PLATE, SHOE	2	2	2					1
11-1	1	172173-37500-3	PLATE,HOSE BAFFLE(49)	2	2	2					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
12	1	172183-37510	COLLAR 11X16X13	4	4	4					1
13	1	172183-37520	COLLAR 16X24X13,RBBR	4	4	4					1
14	1	26013-100352	BOLT M10X 35	4	4	4					1
15	1	172456-37500-1	PLATE, SHOE	2	2	2					2
15-1	1	172456-37500-2	PLATE, SHOE	2	2	2					S 2
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
16	1	26013-100302	BOLT M10X 30	4	4	4					2

Remarks  
 (1)IRON CRAWLER SPEC.  
 (2)RUBBER CRAWLER SPEC.

Fig.18. IDLER & CRAWLER ADJUST

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



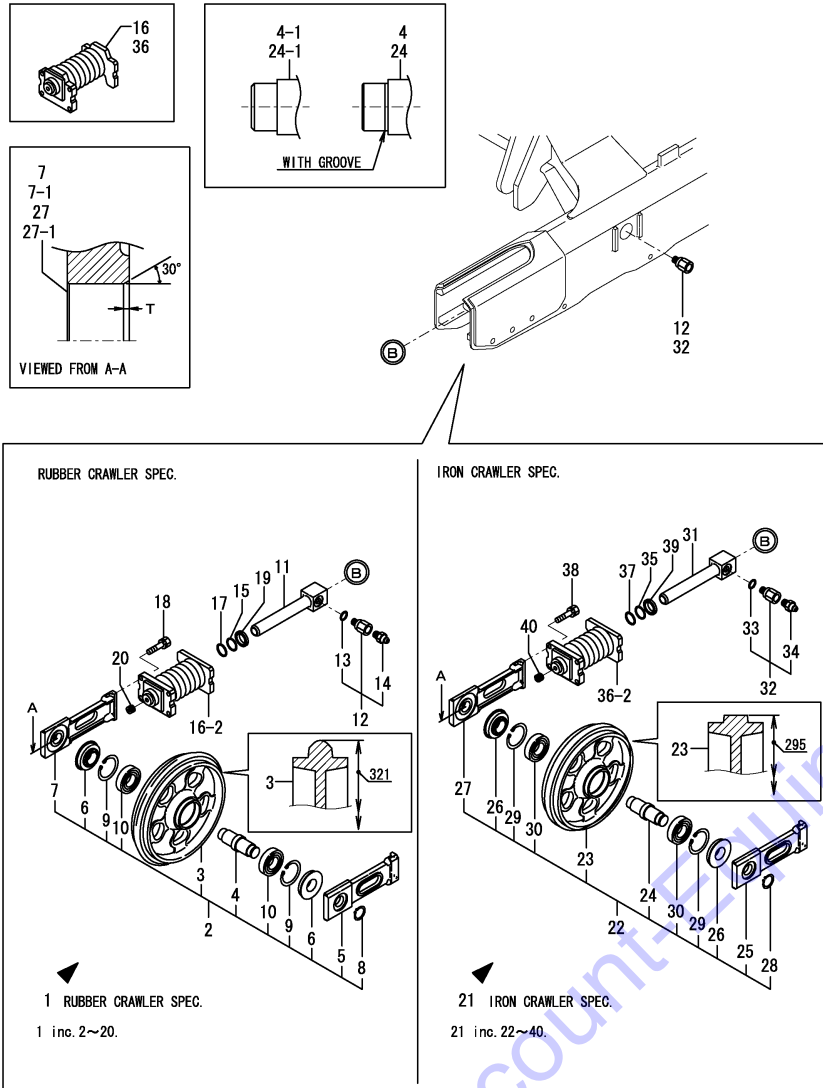
Remarks  
 (1)RUBBER CRAWLER SPEC.  
 (2)IRON CRAWLER SPEC.  
 (3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF. NO.7-1.  
 (4)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF. NO.27-1.  
 (5)T=REF.NO.7,27 1MM,  
 NO.7-1,27-1 1.5MM

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-37120-3	IDLER&ADJUST ASSY	2	2	2					1
1-1	1	772456-37120-1	IDLER ASSY, W/ADJUST	2	2	2					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	2	772456-37100-1	IDLER ASSY, RUBBER	2	2	2					
2-1	2	772456-37100-2	IDLER ASSY, RUBBER	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	3	172456-37100-1	IDLER ASSY	2	2	2					
3-1	3	172456-37100-2	IDLER ASSY	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
4	3	172456-37120	SHAFT,IDLER	2	2	2					
4-1	3	172456-37121	SHAFT, IDLER	2	2	2					F 3
		(A=M/#32797) (B=M/#32797) (C=M/#32797)									
5	3	172456-37130	COVER L,IDLER SEAL	2	2	2					
6	3	172141-37140	SEAL 357220	4	4	4					
7	3	172456-37140	COVER R,IDLER SEAL	2	2	2					5
7-1	3	172456-37141	COVER R, IDLER SEAL	2	2	2					S 5
		(A=M/#32797) (B=M/#32797) (C=M/#32797)									
8	3	22242-000300	CIRCLIP 30	2	2	2					
9	3	22252-000720	CIRCLIP 72	4	4	4					
10	3	24101-062074	BALL BEARING	4	4	4					
11	2	172456-37801	TUBE ASSY, ADJUST	2	2	2					
12	2	172122-37844	VALVE ASSY, NIPPLE	2	2	2					
13	3	24315-000140	O-RING 1B P-14.0	2	2	2					
14	3	24761-020000	NIPPLE PT1/8,GREASE	2	2	2					
15	2	172137-37850	RING, BACK UP	2	2	2					
15-1	2	172A23-37750	RING, BACK UP	2	2	2					N
		(A=M/#31944) (B=M/#31944) (C=M/#31944)									
16	2	172421-37851	SPRING, CRAWLER	2	2	2					1
16-1	2	172421-37852	SPRING R, CRAWLER	2	2	2					N 1
		(A=M/#32044) (B=M/#32044) (C=M/#32044)									
16-2	2	172421-37853	SPRING R, CRAWLER	2	2	2					S 1
		(A=M/#32563) (B=M/#32563) (C=M/#32563)									
17	2	24315-000300	O-RING 1B P-30.0	2	2	2					
18	2	26013-100402	BOLT M10X 40	8	8	8					
19	2	933126-38600	SEAL, DUST	2	2	2					
20	2	933171-13691	PLUG PT1/8	2	2	2					
21	1	772456-37130-3	IDLER&ADJUST ASSY	2	2	2					2
21-1	1	772456-37130-1	IDLER ASSY, W/ADJUST	2	2	2					S 2
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
22	2	772456-37110-1	IDLER ASSY, IRON	2	2	2					
22-1	2	772456-37110-2	IDLER ASSY, IRON	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
23	3	172456-37110-1	IDLER ASSY	2	2	2					
23-1	3	172456-37110-2	IDLER ASSY	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
24	3	172456-37120	SHAFT,IDLER	2	2	2					
24-1	3	172456-37121	SHAFT, IDLER	2	2	2					F 4
		(A=M/#32797) (B=M/#32797) (C=M/#32797)									
25	3	172456-37130	COVER L,IDLER SEAL	2	2	2					
26	3	172141-37140	SEAL 357220	4	4	4					
27	3	172456-37140	COVER R,IDLER SEAL	2	2	2					5

Fig.18. IDLER & CRAWLER ADJUST

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



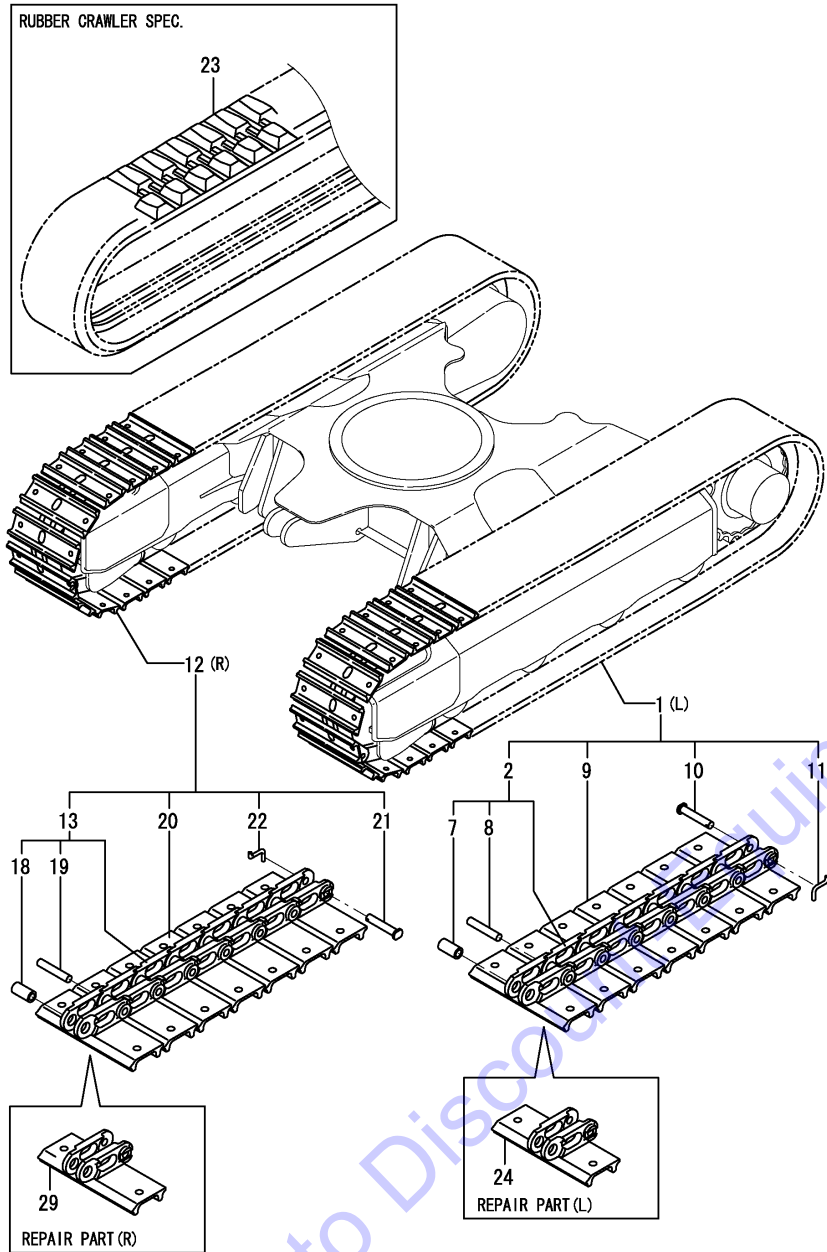
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
27-1	3	172456-37141 (A=M/#32797)	COVER R, IDLER SEAL (B=M/#32797) (C=M/#32797)	2	2	2					S	5	
28	3	22242-000300	CIRCLIP 30	2	2	2							
29	3	22252-000720	CIRCLIP 72	4	4	4							
30	3	24101-062074	BALL BEARING	4	4	4							
31	2	172456-37801	TUBE ASSY, ADJUST	2	2	2							
32	2	172122-37844	VALVE ASSY, NIPPLE	2	2	2							
33	3	24315-000140	O-RING 1B P-14.0	2	2	2							
34	3	24761-020000	NIPPLE PT1/8,GREASE	2	2	2							
35	2	172137-37850	RING, BACK UP	2	2	2							
35-1	2	172A23-37750 (A=M/#31944) (B=M/#31944) (C=M/#31944)	RING, BACK UP	2	2	2						N	
36	2	172421-37701	SPRING, CRAWLER	2	2	2						2	
36-1	2	172421-37702 (A=M/#32044) (B=M/#32044) (C=M/#32044)	SPRING, CRAWLER	2	2	2						N	2
36-2	2	172421-37703 (A=M/#32563) (B=M/#32563) (C=M/#32563)	SPRING, CRAWLER	2	2	2						S	2
37	2	24315-000300	O-RING 1B P-30.0	2	2	2							
38	2	26013-100402	BOLT M10X 40	8	8	8							
39	2	933126-38600	SEAL, DUST	2	2	2							
40	2	933171-13691	PLUG PT1/8	2	2	2							

Remarks  
(1)RUBBER CRAWLER SPEC.  
(2)IRON CRAWLER SPEC.  
(3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF. NO.7-1.  
(4)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF. NO.27-1.  
(5)T=REF.NO.7,27 1MM,  
NO.7-1,27-1 1.5MM

Fig.19. CRAWLER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



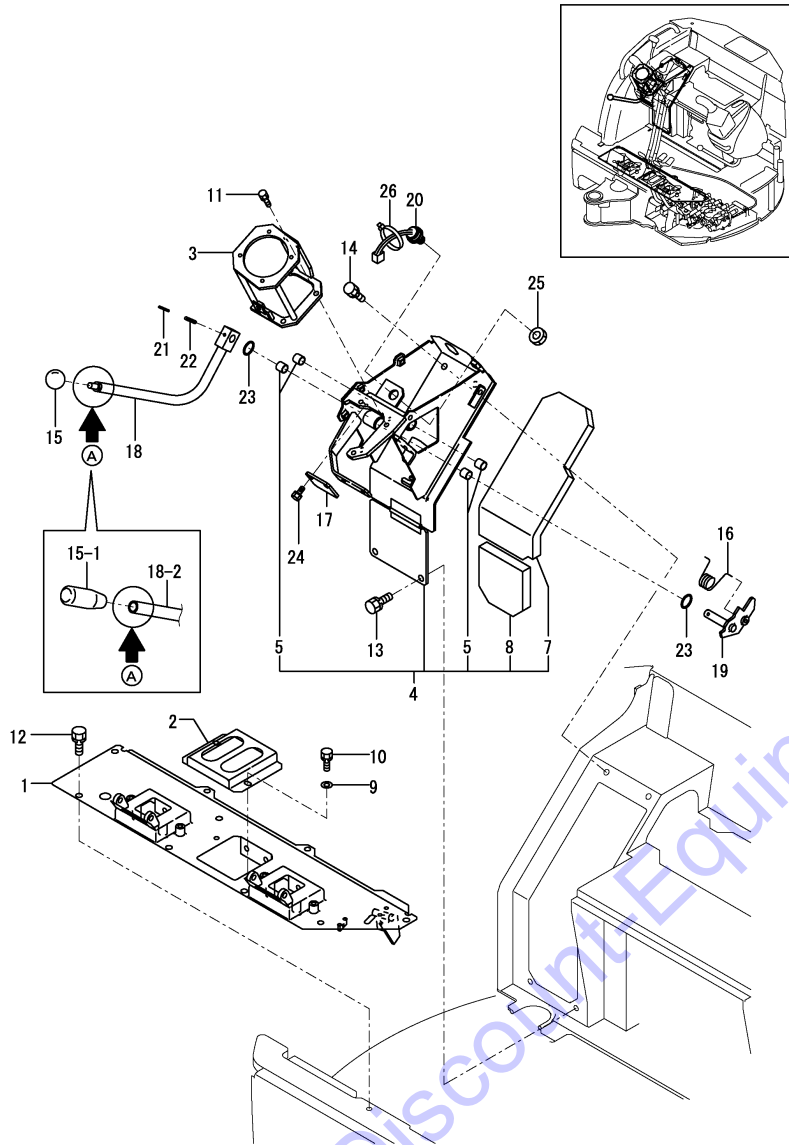
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-38100-1	SHOE, TRACK	1	1	1					
1-1	1	172456-38100-2	SHOE, TRACK	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	2	172421-38110	LINK, CRAWLER	1	1	1					
7	3	172173-38200	BUSH 22.15X43	44	44	44					
8	3	172173-38210	PIN(CRAWLER	43	43	43					
9	2	172456-38110-1	PLATE, SHOE	44	44	44					
9-1	2	172456-38110-2	PLATE, SHOE	44	44	44					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
10	2	172173-38220	PIN,MASTER	1	1	1					
11	2	172173-38300	PIN 4X22,LOCK	1	1	1					
12	1	172456-38120-1	SHOE, TRACK	1	1	1					
12-1	1	172456-38120-2	SHOE, TRACK	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
13	2	172421-38110	LINK, CRAWLER	1	1	1					
18	3	172173-38200	BUSH 22.15X43	44	44	44					
19	3	172173-38210	PIN(CRAWLER	43	43	43					
20	2	172456-38130-1	PLATE, SHOE	44	44	44					
20-1	2	172456-38130-2	PLATE, SHOE	44	44	44					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
21	2	172173-38220	PIN,MASTER	1	1	1					
22	2	172173-38300	PIN 4X22,LOCK	1	1	1					
23	1	172421-38601	CRAWLER, RUBBER	2	2	2					
24	1	172456-38300-1	TRACK ASSY, MASTER	1	1	1					1
24-1	1	172456-38300-2	TRACK ASSY, MASTER	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
29	1	172456-38310-1	TRACK ASSY, MASTER	1	1	1					1
29-1	1	172456-38310-2	TRACK ASSY, MASTER	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									

Remarks  
 (1)REPAIR PART



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

(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=

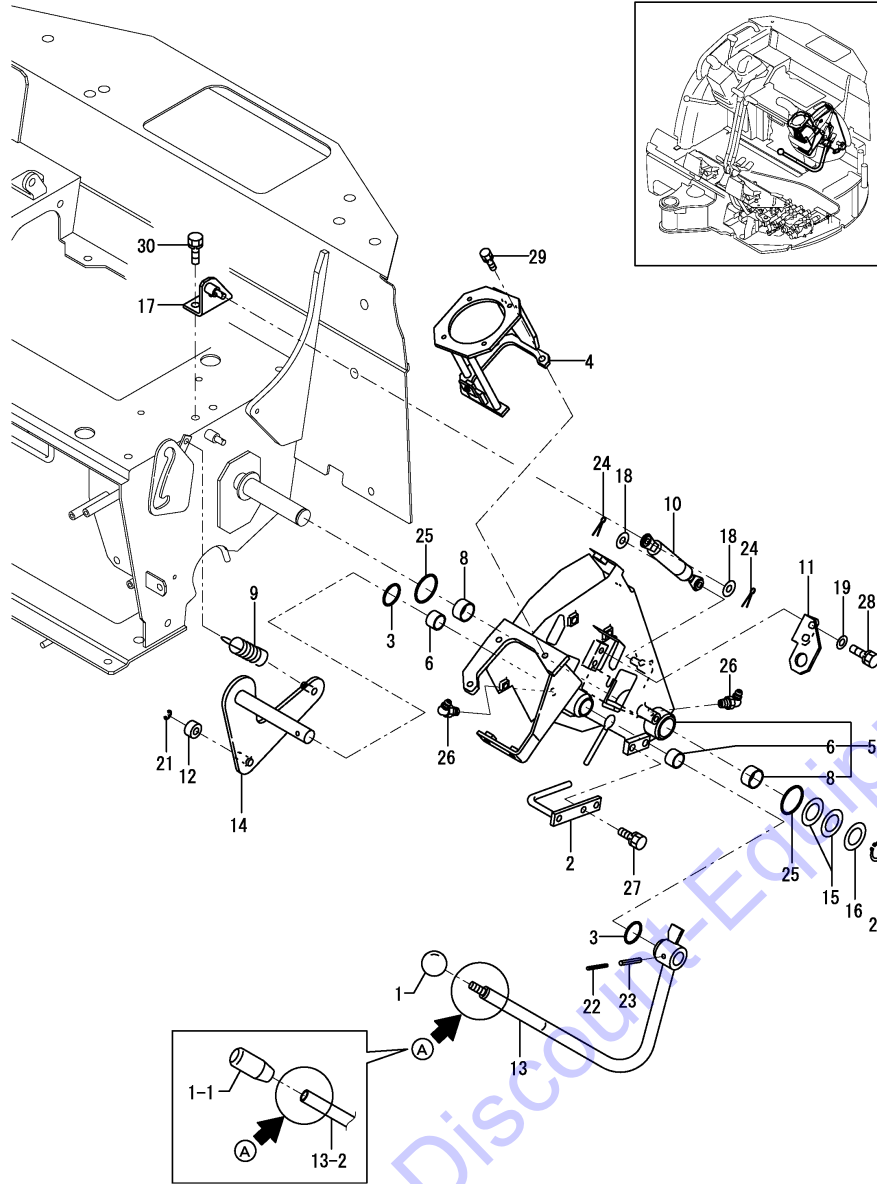


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45400	STAND ASSY, LINK	1	1	1					
1-1	1	172472-45400-1	LINK STAND ASSY (49)	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
1-2	1	172472-45401	STAND ASSY, LINK	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
2	1	172458-45510	BRACKET, BOOM	1	1	1					
2-1	1	172458-45510-1	BRACKET, BOOT	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	1	172472-46210	BRACKET ASSY	1	1	1					
4	1	172A36-46800	STAND, LEVER	1	1	1					
4-1	1	172A36-46801	STAND, LEVER	1	1	1					N
		(A=M/#31760) (B=M/#31760) (C=M/#31760)									
4-2	1	172A36-46802	STAND ASSY, LEVER	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
5	2	172141-41360	BUSH	4	4	4					
7	2	172A23-46840	SPONGE	1	1	1					
8	2	172A23-46850	SPONGE	1	1	1					
9	1	22137-080000	WASHER	2	2	2					
10	1	26013-080162	BOLT	2	2	2					
11	1	26013-080202	BOLT	3	3	3					
12	1	26013-100202	BOLT	6	6	6					
13	1	26013-100202	BOLT	2	2	2					
14	1	26013-100202	BOLT	3	3	3					
15	1	1D4070-23580	GRIP	1	1	1					
15-1	1	172A77-46050	GRIP	1	1	1					S
		(A=M36315) (B=M36315) (C=M36315)									
16	1	172165-45970	SPRING	1	1	1					
17	1	172458-46950	PLATE	1	1	1					
18	1	172458-47680	LEVER, LOCK	1	1	1					
18-1	1	172458-47680-1	LEVER, LOCK	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
18-2	1	172458-47681	LOCK LEVER R(GRAY:49)	1	1	1					F 1
		(A=M36315) (B=M36315) (C=M36315)									
19	1	172458-47710	SHAFT ASSY	1	1	1					
20	1	194464-52190	SWITCH, SAFETY START	1	1	1					
21	1	22351-030032	PIN, SPRING	1	1	1					
22	1	22351-050032	PIN, SPRING	1	1	1					
23	1	24311-000210	O-RING	2	2	2					
24	1	26013-080162	BOLT	2	2	2					
25	1	26776-180002	NUT	1	1	1					
26	1	194202-56460	BAND	1	1	1					W
		(A=M39172) (B=M39172) (C=M39172)									

Remarks  
 (1)A=REF.NO.18 M10 SCREW,  
 NO.18-1 NO SCREW.  
 INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH RE.NO.15-1.

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

(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=



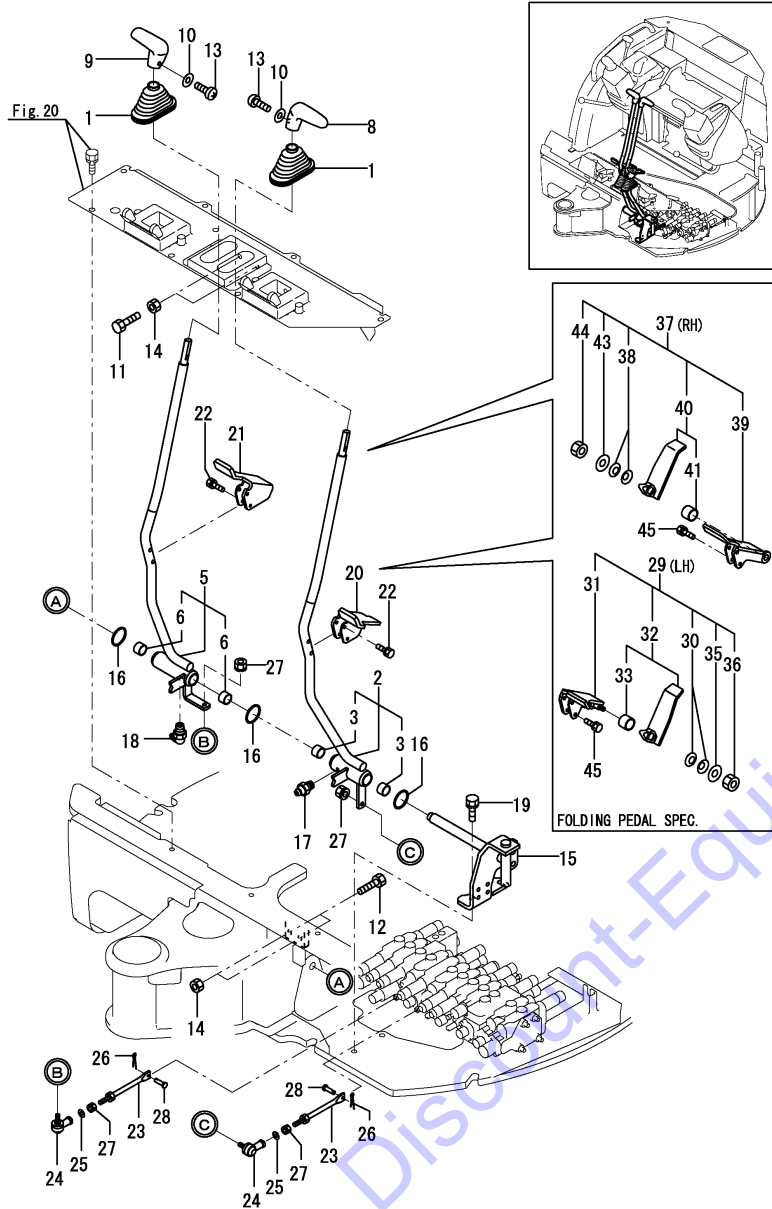
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP,RED ROUND	1	1	1					
1-1	1	172A77-46050	GRIP,RED	1	1	1					S
		(A=M36315) (B=M36315) (C=M36315)									
2	1	172458-45850	GUIDE, HOSE	1	1	1					
3	1	172124-46200	O-RING 27X5.7	2	2	2					
4	1	172472-46220	BRACKET ASSY	1	1	1					
5	1	172472-46600	STAND ASSY, LEVER	1	1	1					
6	2	172141-41370	BUSH 2015	2	2	2					
8	2	24550-025150	BUSH 25X15	2	2	2					
9	1	172162-46690	SPRING	1	1	1					
10	1	172455-46890	SPRING,GAS	1	1	1					
11	1	172455-46950	BRACKET, SWITCH	1	1	1					
12	1	172165-47550	BUSH	1	1	1					
13	1	172472-47620	LEVER, LOCK	1	1	1					
13-1	1	172472-47620-1	LOCK LEVER L-US (49)	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
13-2	1	172472-47621	LOCK LEVER ASSY,L(49)	1	1	1					F 1
		(A=M36315) (B=M36315) (C=M36315)									
14	1	172458-47640	ROD ASSY, SPRING	1	1	1					
15	1	172165-47980	SHIM 42X25.5X0.5	2	2	2					
16	1	172165-47990	WASHER 25.5X42	1	1	1					
17	1	172472-64600	BRACKET, DAMPER	1	1	1					
18	1	22137-080000	WASHER 8, POLISHED	2	2	2					
19	1	22137-080000	WASHER 8, POLISHED	2	2	2					
20	1	22242-000250	CIRCLIP 25S	1	1	1					
21	1	22272-000070	CIRCLIP E- 7	1	1	1					
22	1	22351-035040	SPRING PIN 3.5X40	1	1	1					
23	1	22351-060040	SPRING PIN 6X40	1	1	1					
24	1	22417-200200	COTTER PIN 2.0X20	2	2	2					
25	1	24311-000340	O-RING 1A P-34.0	2	2	2					
26	1	24761-050000	NIPPLE C,GREASE	2	2	2					
27	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					
28	1	26013-080202	BOLT W/WASHER M8X20	2	2	2					
29	1	26013-080202	BOLT W/WASHER M8X20	3	3	3					
30	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					

Remarks  
 (1)A=REF.NO.13-1 M10 SCREW,  
 NO.13-2 NO SCREW.  
 INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH RE.NO.1-1.

Fig.22. CONTROL EQUIPMEN(TRAVEL LEVER)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



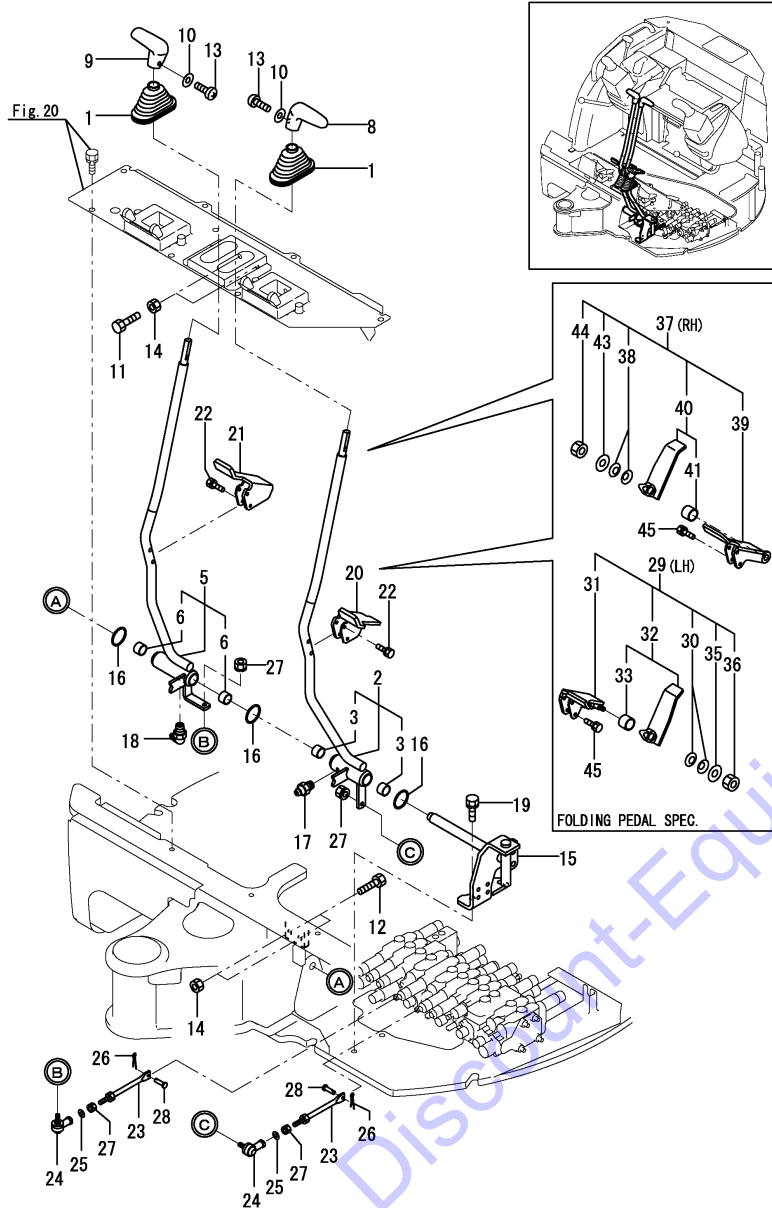
Remarks  
(1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.29,37,45.  
(2)FOLDING PEDAL SPEC.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOTS	2	2	2					
2	1	172469-45100	LEVER, TRACK	1	1	1					
2-1	1	172469-45100-1	LEVER, TRACK	1	1	1					S
3	2	(A=M/#32643) 172141-41370 (B=M/#32643) (C=M/#32643)	BUSH 2015	2	2	2					
5	1	172469-45140	LEVER, TRACK	1	1	1					
5-1	1	172469-45140-1	LEVER, TRACK	1	1	1					S
6	2	(A=M/#32643) 172141-41370 (B=M/#32643) (C=M/#32643)	BUSH 2015	2	2	2					
8	1	172187-45870	GRIP L, DRIVE	1	1	1					
9	1	172187-45880	GRIP R, DRIVE	1	1	1					
10	1	22117-040000	WASHER 4	2	2	2					
11	1	26116-100404	BOLT M10X 40 PLATED	2	2	2					
12	1	26116-100604	BOLT M10X 60 PLATED	2	2	2					
13	1	26587-040122	SCREW, M4X12	2	2	2					
14	1	26716-100002	NUT 10	4	4	4					
15	1	172472-45661	BRACKET ASSY, TRACK	1	1	1					
16	1	172124-46200	O-RING 27X5.7	3	3	3					
17	1	24761-020000	NIPPLE PT1/8,GREASE	1	1	1					
18	1	24761-050000	NIPPLE C,GREASE	1	1	1					
19	1	26013-100252	BOLT W/WASHER M10X25	2	2	2					
20	1	172472-45600	PEDAL, TRACK	1	1	1					1
20-1	1	172472-45600-1	PEDAL L,TRACK F (49)	1	1	1					S 1
21	1	(A=M/#32643) 172472-45620 (B=M/#32643) (C=M/#32643)	PEDAL, TRACK	1	1	1					1
21-1	1	(A=M/#32643) 172472-45620-1 (B=M/#32643) (C=M/#32643)	PEDAL R,TRACK F (49)	1	1	1					S 1
22	1	26013-060352	BOLT M 6X 35	4	4	4					
23	1	172458-45250	ROD 91 ASSY	2	2	2					
24	1	172122-46590	ELBALL	2	2	2					
25	1	22117-080000	WASHER 8	2	2	2					
26	1	22417-160160	COTTER PIN 1.6X16	2	2	2					
27	1	26051-080002	NUT M 8	4	4	4					
28	1	933110-54100	PIN 4.75X14	2	2	2					
29	1	172472-45601	PEDAL, TRACK	1	1	1					W 2
29-1	1	(A=M/#31024) 172472-45601-1 (B=M/#31024) (C=M/#31024)	PEDAL, TRACK	1	1	1					S 2
30	2	172068-28490	SPRING 8	2	2	2					
31	2	172472-45720	PEDAL FL ASSY, TRACK	1	1	1					
32	2	172472-45810	PEDAL, TRACK	1	1	1					
32-1	2	172472-45810-1	PEDAL, TRACK	1	1	1					S
33	3	(A=M/#32643) 172110-45050 (B=M/#32643) (C=M/#32643)	BUSH 12X12	1	1	1					
35	2	22137-080000	WASHER 8, POLISHED	1	1	1					
36	2	26347-080002	U-NUT M 8	1	1	1					
37	1	172472-45621	PEDAL, TRACK	1	1	1					W 2
37-1	1	(A=M/#31024) 172472-45621-1 (B=M/#31024) (C=M/#31024)	PEDAL, TRACK	1	1	1					S 2
38	2	(A=M/#32643) 172068-28490 (B=M/#32643) (C=M/#32643)	SPRING 8	2	2	2					

Fig.22. CONTROL EQUIPMEN(TRAVEL LEVER)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



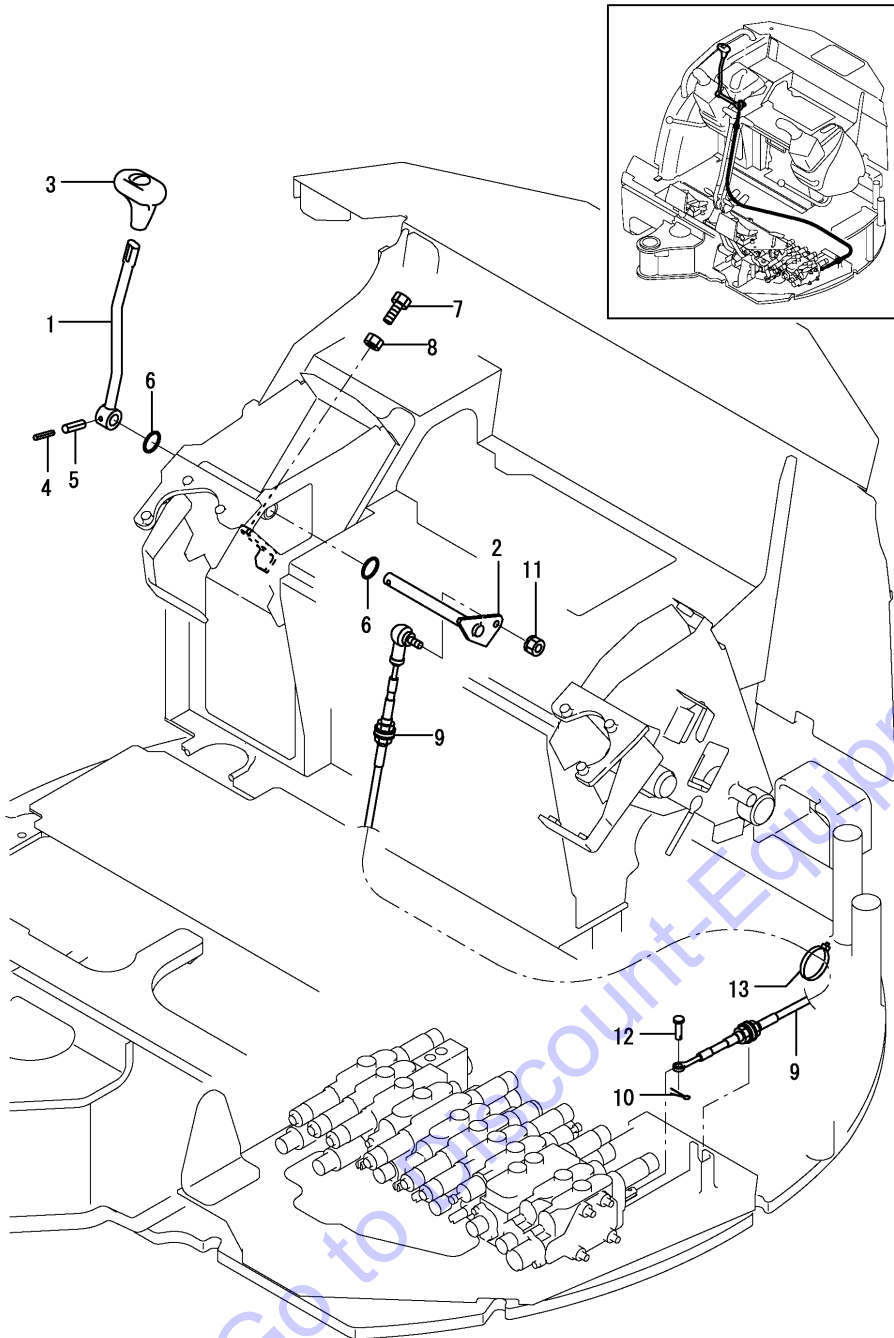
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
39	2	172472-45730	PEDAL FR ASSY, TRACK	1	1	1					
40	2	172472-45850	PEDAL, TRACK	1	1	1					
40-1	2	172472-45850-1	PEDAL, TRACK	1	1	1					S
		(A)=M/#32643 (B)=M/#32643 (C)=M/#32643									
41	3	172110-45050	BUSH 12X12	1	1	1					
43	2	22137-080000	WASHER 8, POLISHED	1	1	1					
44	2	26347-080002	U-NUT M 8	1	1	1					
45	1	26013-060302	BOLT M 6X 30	4	4	4					

Remarks  
 (1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.29,37,45.  
 (2)FOLDING PEDAL SPEC.

Fig.23. CONTROL EQUIPMENT(BLADE LEVER)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

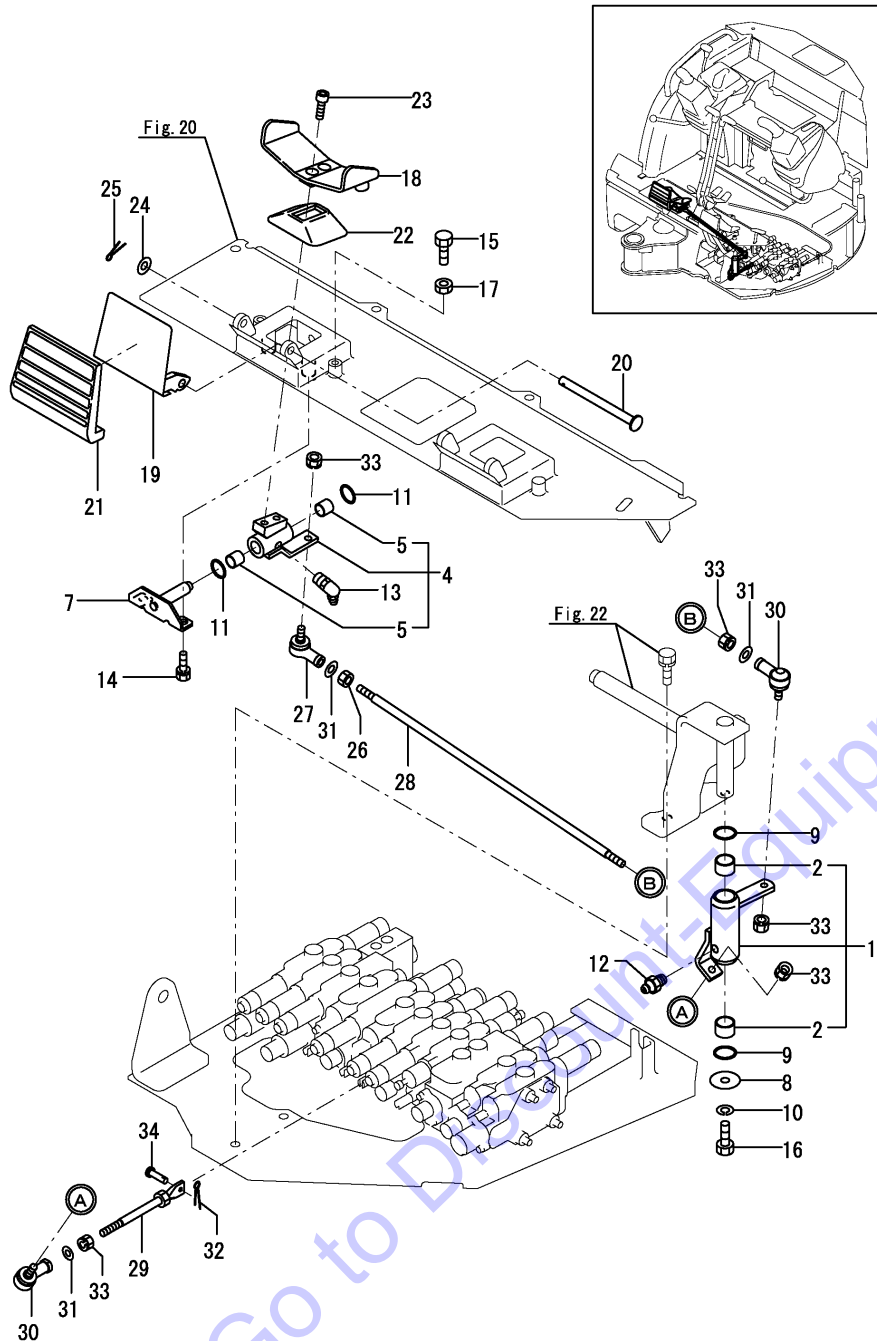


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45700	LEVER, BLADE	1	1	1					
1-1	1	172472-45700-1	LEVER, BLADE (GRAY:49)	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	1	172458-45720	SHAFT ASSY	1	1	1					
2-1	1	172458-45720-1	SHAFT ASSY	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	1	172164-45970	GRIP, BLADE	1	1	1					
4	1	22351-030032	SPRING PIN 3X32	1	1	1					
5	1	22351-050032	SPRING PIN 5X32	1	1	1					
6	1	24311-000210	O-RING 1A P-21.0	2	2	2					
7	1	26116-080254	BOLT M 8X 25 PLATED	2	2	2					
8	1	26716-080002	NUT M 8	2	2	2					
9	1	172458-45800	CABLE, BLADE	1	1	1					
10	1	22417-160160	COTTER PIN 1.6X16	1	1	1					
11	1	26051-080002	NUT M 8	1	1	1					
12	1	933110-54100	PIN 4.75X14	1	1	1					
13	1	933168-55770	BAND 146	1	1	1					

Fig.24. CONTROL EQUIPMENT(SWING PEDAL)

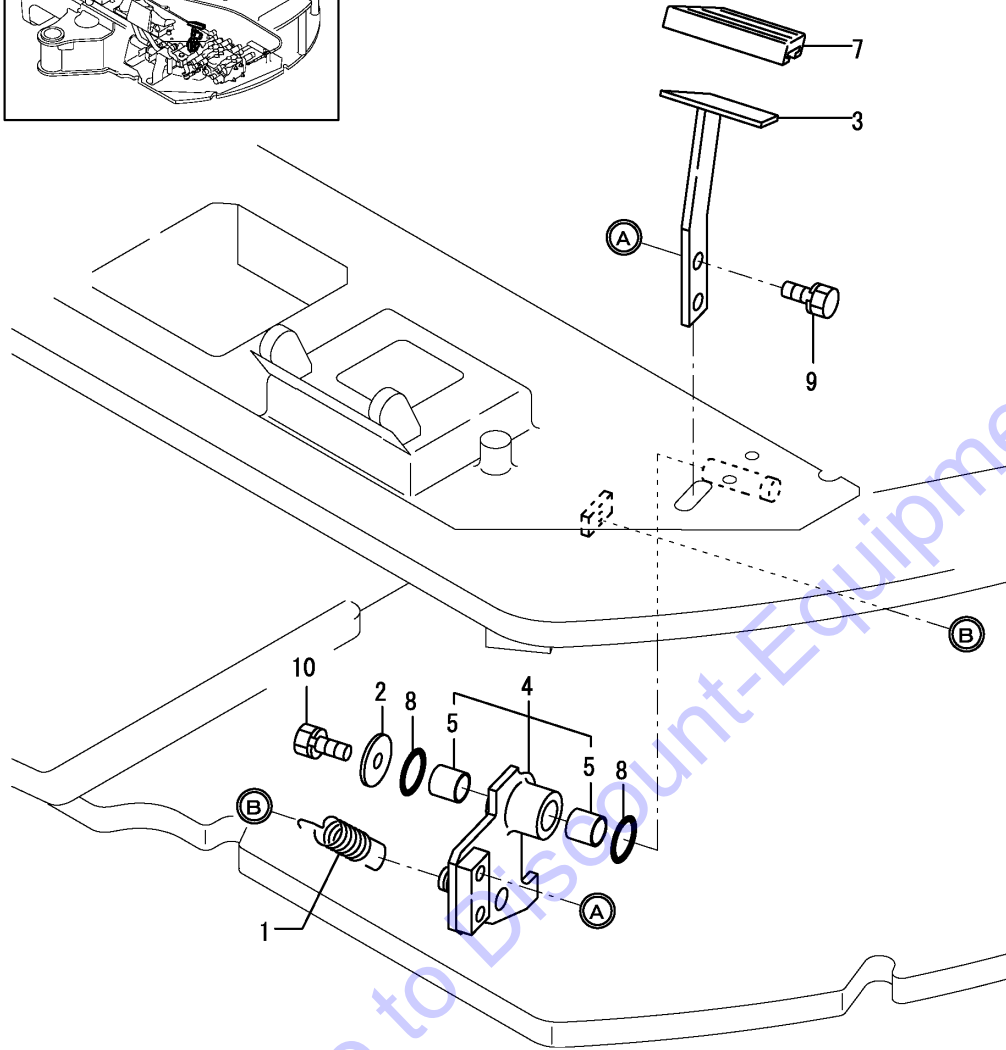
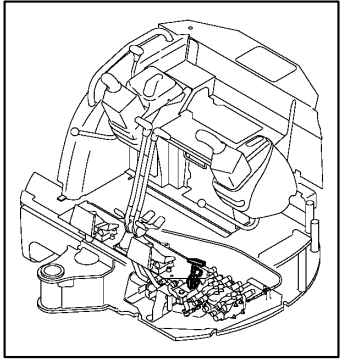
(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-45180	LINK, SWING	1	1	1					
1-1	1	172458-45180-1	LINK, SWING	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	2	172141-41370	BUSH 2015	2	2	2					
4	1	172458-45200	LINK, PEDAL	1	1	1					
4-1	1	172458-45200-1	LINK, PEDAL	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
5	2	172141-41360	BUSH 1415	2	2	2					
7	1	172458-45230	SHAFT, PEDAL	1	1	1					
7-1	1	172458-45230-1	SHAFT, PEDAL	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
8	1	1A1040-45890	WASHER 10 36 4.5	1	1	1					
9	1	172124-46200	O-RING 27X5.7	2	2	2					
10	1	22217-100000	SPRING WASHER 10	1	1	1					
11	1	24311-000210	O-RING 1A P-21.0	2	2	2					
12	1	24761-020000	NIPPLE PT1/8,GREASE	1	1	1					
13	1	24761-040000	NIPPLE B,GREASE	1	1	1					
14	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					
15	1	26116-080254	BOLT M 8X 25 PLATED	2	2	2					
16	1	26116-100202	BOLT M10X 20 PLATED	1	1	1					
17	1	26716-080002	NUT M 8	2	2	2					
18	1	172458-45521	PEDAL, SWING	1	1	1					
18-1	1	172458-45521-1	PEDAL, SWING	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
19	1	172458-45540	COVER, PEDAL	1	1	1					
19-1	1	172458-45540-1	COVER, PEDAL	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
20	1	172187-45651	SHAFT, PEDAL COVER	1	1	1					
21	1	172187-45760	COVER PAD	1	1	1					
22	1	172157-45990	BOOTS, PEDAL	1	1	1					
23	1	172165-46340	BOLT	2	2	2					
24	1	22137-100000	WASHER 10,POLISHED	1	1	1					
25	1	22417-250200	COTTER PIN 2.5X20	1	1	1					
26	1	194200-37780	LS-NUT 8	1	1	1					
27	1	172734-41300	BALL, LINK	1	1	1					
27-1	1	1E6740-64200	BALL BL8DL, LINK	1	1	1					R
		(A=M35718) (B=M35718) (C=M35718)									
28	1	172456-45160	LOD,SWING	1	1	1					
29	1	172823-45940	ROD 130 COMP.	1	1	1					
30	1	172122-46590	ELBALL	2	2	2					
31	1	22117-080000	WASHER 8	3	3	3					
32	1	22417-160160	COTTER PIN 1.6X16	1	1	1					
33	1	26051-080002	NUT M 8	5	5	5					
34	1	933110-54100	PIN 4.75X14	1	1	1					

Fig.25. CONTROL EQUIPMENT(LOW-HIGH PEDAL)



OCS10-G44703 25. CONTROL EQUIPMENT(LOW-HIGH PEDAL)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172162-12480	SPRING,RETURN	1	1	1					
2	1	1A1040-43900	SPRING WASHER	1	1	1					
3	1	172487-45900	PEDAL, LOW-HIGH	1	1	1					
3-1	1	172487-45900-1	PEDAL, LOW-HIGH (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1	1					S
4	1	172458-45920	BRACKET, PEDAL	1	1	1					
4-1	1	172458-45920-1	BRACKET, PEDAL (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1	1					S
5	2	172141-41360	BUSH 1415	2	2	2					
7	1	172458-45950	PAD,PEDAL	1	1	1					
8	1	24311-000210	O-RING 1A P-21.0	2	2	2					
9	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					
10	1	26013-080202	BOLT W/WASHER M8X20	1	1	1					

Fig.26. CONTROL EQUIPMEN(P.T.O. PEDAL)

(A)=VIO20-3(US)

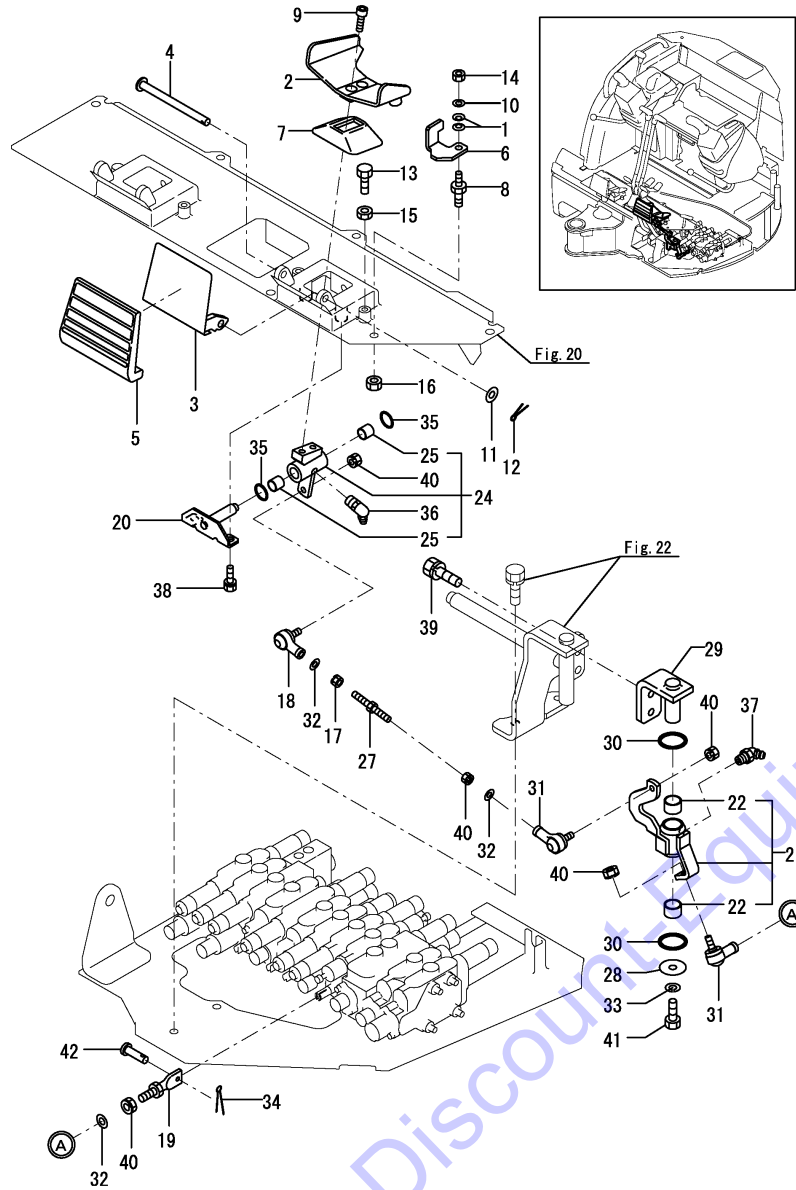
(B)=VIO20-3(AS)

(C)=VIO20-3(NZ)

(D)=

(E)=

(F)=



Remarks

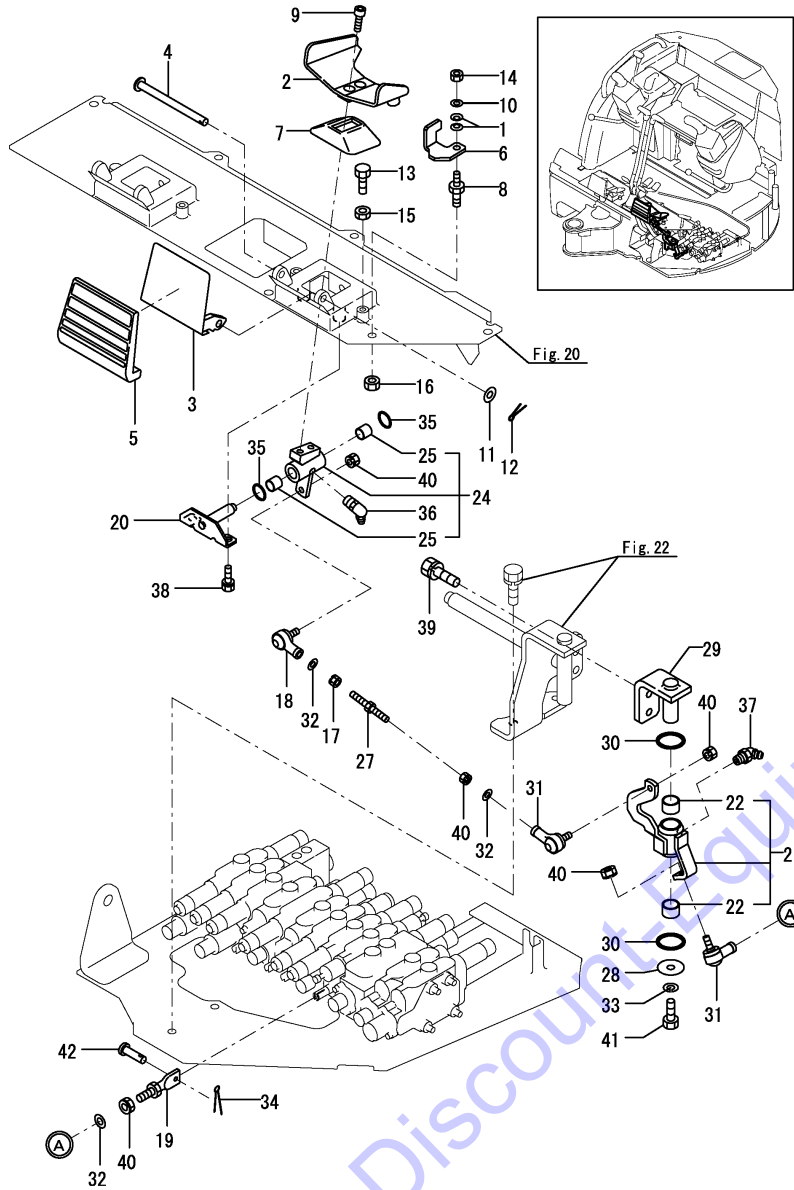
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.6A.

(2)LABELS ARE NOT ILLUSTRATED.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172068-28490	SPRING 8	2	2	2					
2	1	172472-45500	PEDAL, PTO	1	1	1					
2-1	1	172472-45500-1	PEDAL,P.T.O(GRAY:49)	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	1	172458-45540	COVER, PEDAL	1	1	1					
3-1	1	172458-45540-1	COVER, PEDAL	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
4	1	172187-45651	SHAFT, PEDAL COVER	1	1	1					
5	1	172187-45760	COVER PAD	1	1	1					
6	1	172448-45800-1	PLATE, PTO LOCK	1	1	1					1
6-1	1	172448-45800-3	PLATE, PTO LOCK	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
6A	1	172458-03240	LABEL,LOCK	1	1	1					2
7	1	172157-45990	BOOTS, PEDAL	1	1	1					
8	1	172462-46230	BOLT 8X10	1	1	1					
9	1	172165-46340	BOLT	2	2	2					
10	1	22137-080000	WASHER 8, POLISHED	1	1	1					
11	1	22137-100000	WASHER 10,POLISHED	1	1	1					
12	1	22417-250200	COTTER PIN 2.5X20	1	1	1					
13	1	26116-080254	BOLT M 8X 25 PLATED	2	2	2					
14	1	26347-080002	U-NUT M 8	1	1	1					
15	1	26716-080002	NUT M 8	2	2	2					
16	1	26757-100002	LOCK NUT M10	1	1	1					
17	1	194200-37780	LS-NUT 8	1	1	1					
18	1	172734-41300	BALL, LINK	1	1	1					
18-1	1	1E6740-64200	BALL BL8DL, LINK	1	1	1					R
		(A=M35718) (B=M35718) (C=M35718)									
19	1	172823-45000	ROD 54, SPOOL	1	1	1					
20	1	172458-45230	SHAFT, PEDAL	1	1	1					
20-1	1	172458-45230-1	SHAFT, PEDAL	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
21	1	172472-45300	LINK ASSY, PTO	1	1	1					
21-1	1	172472-45300-1	LINK ASSY, PTO	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
22	2	172141-41370	BUSH 2015	2	2	2					
24	1	172472-45330	LINK B ASSY	1	1	1					
25	2	172141-41370	BUSH 2015	2	2	2					
27	1	172469-45360	ROD 77	1	1	1					
28	1	1A1040-45890	WASHER 10 36 4.5	1	1	1					
29	1	172458-46150	BRACKET, PTO	1	1	1					
29-1	1	172458-46150-1	BRACKET, PTO	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
30	1	172124-46200	O-RING 27X5.7	2	2	2					
31	1	172122-46590	ELBALL	2	2	2					
32	1	22117-080000	WASHER 8	3	3	3					
33	1	22217-100000	SPRING WASHER 10	1	1	1					
34	1	22417-160160	COTTER PIN 1.6X16	1	1	1					
35	1	24311-000210	O-RING 1A P-21.0	2	2	2					
36	1	24761-040000	NIPPLE B,GREASE	1	1	1					
37	1	24761-050000	NIPPLE C,GREASE	1	1	1					
38	1	26013-080162	BOLT W/WASHER M8X16	2	2	2					



Fig.26. CONTROL EQUIPMEN(P.T.O. PEDAL)



Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.6A.
- (2)LABELS ARE NOT ILLUSTRATED.

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

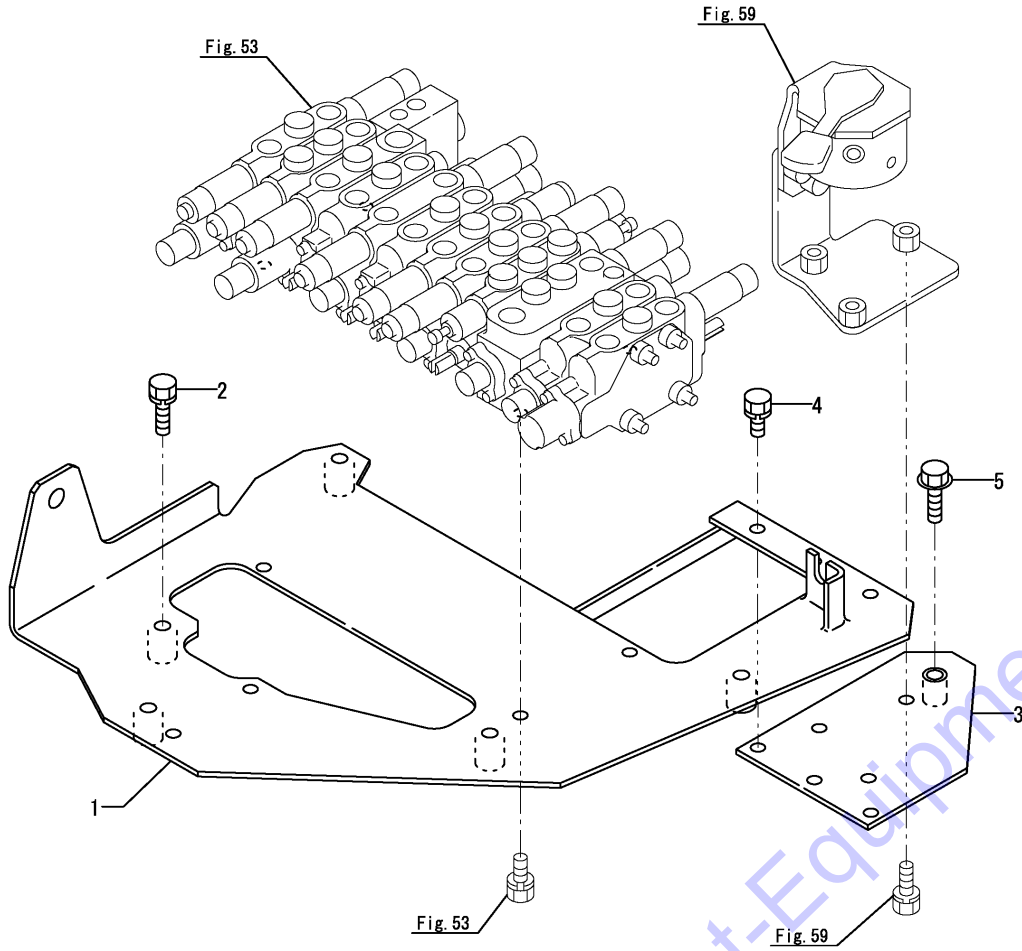
(D)=  
 (E)=  
 (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
39	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					
40	1	26051-080002	NUT M 8	5	5	5					
41	1	26116-100202	BOLT M10X 20 PLATED	1	1	1					
42	1	933110-54100	PIN 4.75X14	1	1	1					

Fig.27. CONTROL VALVE PLATE

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

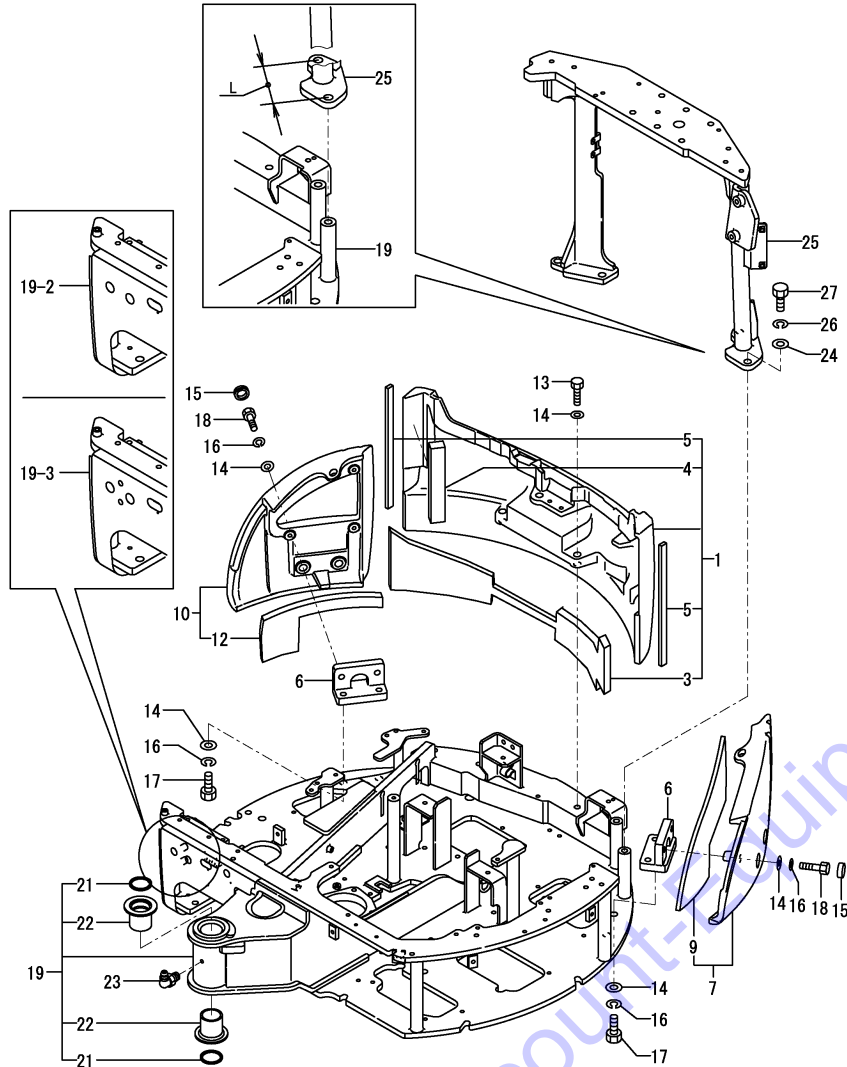


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-45600	PLATE, VALVE	1	1	1					
1-1	1	172487-45600-1	PLATE, VALVE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	1	26013-100402	BOLT M10X 40	5	5	5					
3	1	172487-74200	BRACKET,MULTI	1	1	1					
4	1	26013-100202	BOLT W/WASHER M10X20	3	3	3					
5	1	26013-100352	BOLT M10X 35	1	1	1					

Go to Discount-Equipment.com to order your parts

Fig.28. TURNING FRAME

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=



Remarks

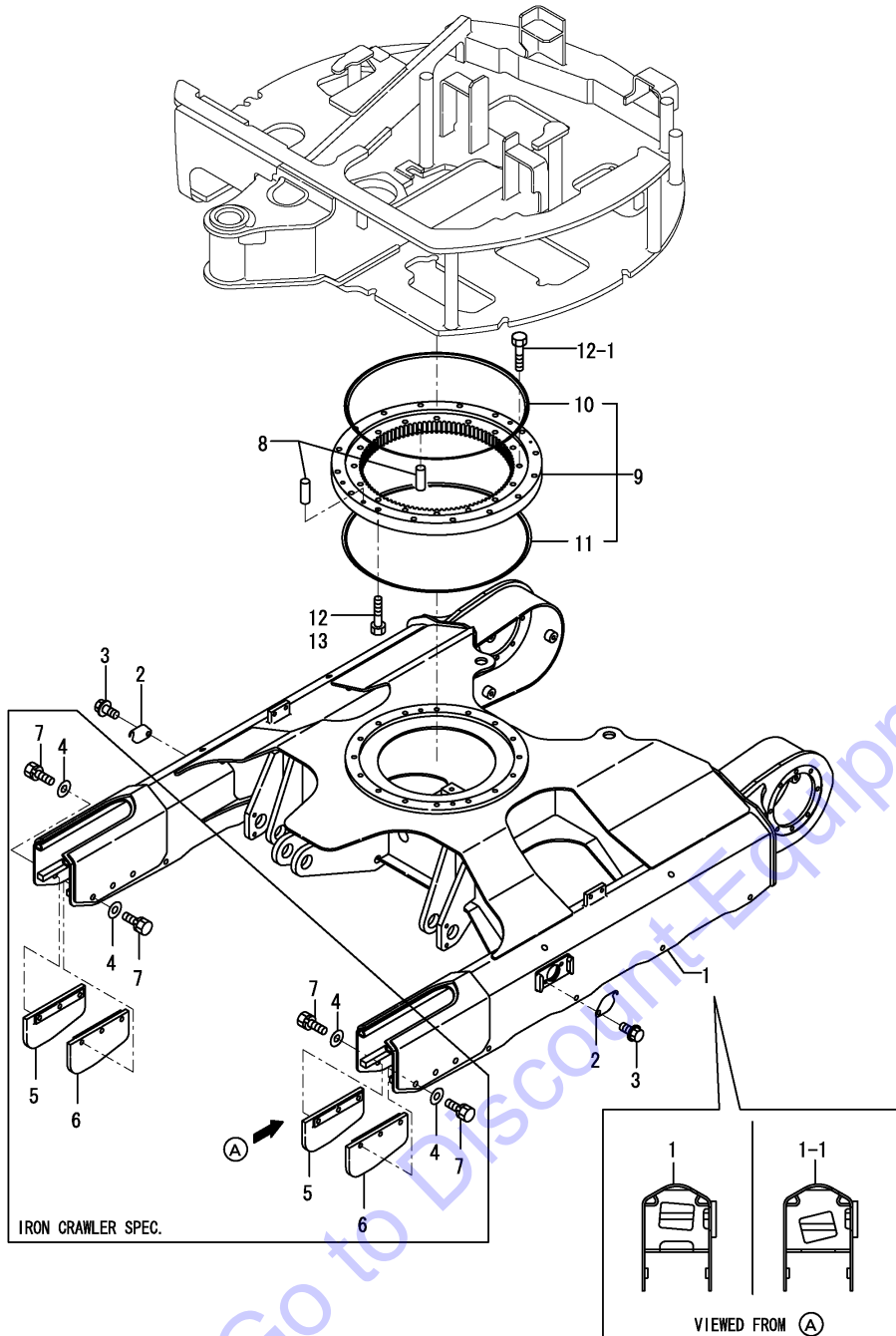
- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.20A.
- (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.25A.
- (3)LABELS ARE NOT ILLUSTRATED.
- (4)REF.NO.19-1 & 25-1 L=143.45MM.
- REF.NO.19-2 & 25-2 L=135.23MM.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-53300-1	WEIGHT, COUNTER	1	1	1					
1-1	1	172487-53300-2	WEIGHT, COUNTER	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	2	172487-53320	SEAL A	1	1	1					
4	2	172487-53330	SEAL B	1	1	1					
5	2	172458-53370	SEAL,COUNTER	2	2	2					
6	1	172458-53330	BRACKET ASSY	2	2	2					
7	1	172487-53350-1	WEIGHT	1	1	1					
7-1	1	172487-53350-2	WEIGHT	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
9	2	172487-53370	SEAL C	1	1	1					
10	1	172487-53400-1	WEIGHT ASSY	1	1	1					
10-1	1	172487-53400-2	WEIGHT ASSY	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
12	2	172487-53420	SEAL D	1	1	1					
13	1	172165-53480	BOLT M16X 60	2	2	2					
14	1	172165-53500	WASHER	10	10	10					
15	1	172456-53700	GROMMET 30	4	4	4					
16	1	22217-160000	SPRING WASHER 16	8	8	8					
17	1	26116-160452	BOLT M16X 45 PLATED	4	4	4					
18	1	26116-160652	BOLT M16X 65 PLATED	4	4	4					
19	1	172A23-54100-1	FRAME ASSY, TURNING	1	1	1					1
19-1	1	172A23-54100-2	FRAME ASSY, TURNING	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
19-2	1	172A23-54101	FRAME ASSY,TURNING	1	1	1					S 4
		(A=M36240) (B=M36240) (C=M36240)									
19-3	1	172A23-54102	FRAME ASSY,TURNING	1	1	1					S 1
		(A=M45001) (B=M45001) (C=M45001)									
19-4	1	172A23-54103	FRAME ASSY,TURNING	1	1	1					N 1
		(A=M45019) (B=M45019) (C=M45019)									
20A	1	172157-03740	LABEL	1	1	1					3
20A-1	1	172157-03741	LABEL, GREASE US	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
21	2	172448-54120	SEAL 50X60X4,DUST	2	2	2					
22	2	172171-54750	BUSH 50X65	2	2	2					
23	1	24761-040000	NIPPLE B,GREASE	1	1	1					
24	1	172165-53500	WASHER	4	4	4					
25	1	172A23-67210	MOUNT, CANOPY	1	1	1					2
25-1	1	172A23-67210-1	MOUNT, CANOPY	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
25-2	1	172A23-67211-1	MOUNT,CANOPY (49)	1	1	1					S 4
		(A=M36240) (B=M36240) (C=M36240)									
25A	1	172437-03411	LABEL (ENG ROOM US	1	1	1					3
25A-1	1	172A36-03411	LABEL, ENG ROOM	1	1	1					N 3
		(A=M/#30501) (B=M/#30501) (C=M/#30501)									
26	1	22217-160000	SPRING WASHER 16	4	4	4					
27	1	26116-160452	BOLT M16X 45 PLATED	4	4	4					

Fig.29. TRACK FRAME & TURNING BEARING

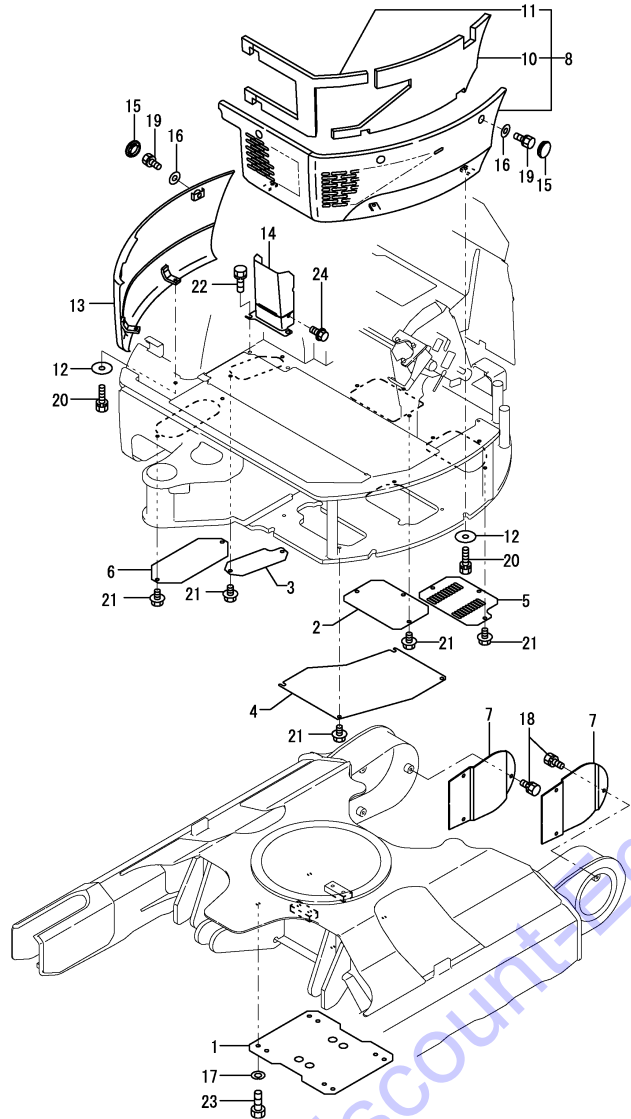
(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-50102-1	FRAME ASSY, LOWER	1	1	1					
1-1	1	172456-50103-2	FRAME,LOWER (82)	1	1	1					S
		(A=M/#32563) (B=M/#32563) (C=M/#32563)									
1-2	1	172456-50103-1	FRAME ASSY, LOWER	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
1-3	1	172456-50104-1	FRAME ASSY,LOWER(49)	1	1	1					N
		(A=M34222) (B=M34222) (C=M34222)									
1-4	1	172456-50105	FRAME ASSY,LOWER	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
2	1	172458-50480-1	COVER, FRAME	2	2	2					
2-1	1	172458-50480-2	COVER, FRAME	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	1	26106-100122	BOLT M10X 12 PLATED	4	4	4					
4	1	172730-05250	WASHER	12	12	12					
5	1	172456-50800-1	GUARD, SHOE	2	2	2					
5-1	1	172456-50800-2	GUARD, SHOE	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
6	1	172456-50830-1	GUARD, SHOE	2	2	2					
6-1	1	172456-50830-2	GUARD, SHOE	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
7	1	26013-120352	BOLT M12X 35	12	12	12					
8	1	194940-24350	PIN 10X28, STRAIGHT	3	3	3					
9	1	172456-57600	BEARING, TURNING	1	1	1					
10	2	172183-57620	SEAL A, TURNING	1	1	1					
11	2	172183-57630	SEAL B, TURNING	1	1	1					
12	1	172141-57650	BOLT M12X 55 PLATED	32	32	32					
12-1	1	172141-57650	BOLT M12X 55 PLATED	16	16	16					K
		(A=M36027) (B=M36027) (C=M36027)									
13	1	172A23-57650	BOLT 10.9 12X55	16	16	16					W
		(A=M36027) (B=M36027) (C=M36027)									

Fig.30. COVER(FRAME)



Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.11A.
- (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.13A.
- (3)LABELS ARE NOT ILLUSTRATED.

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

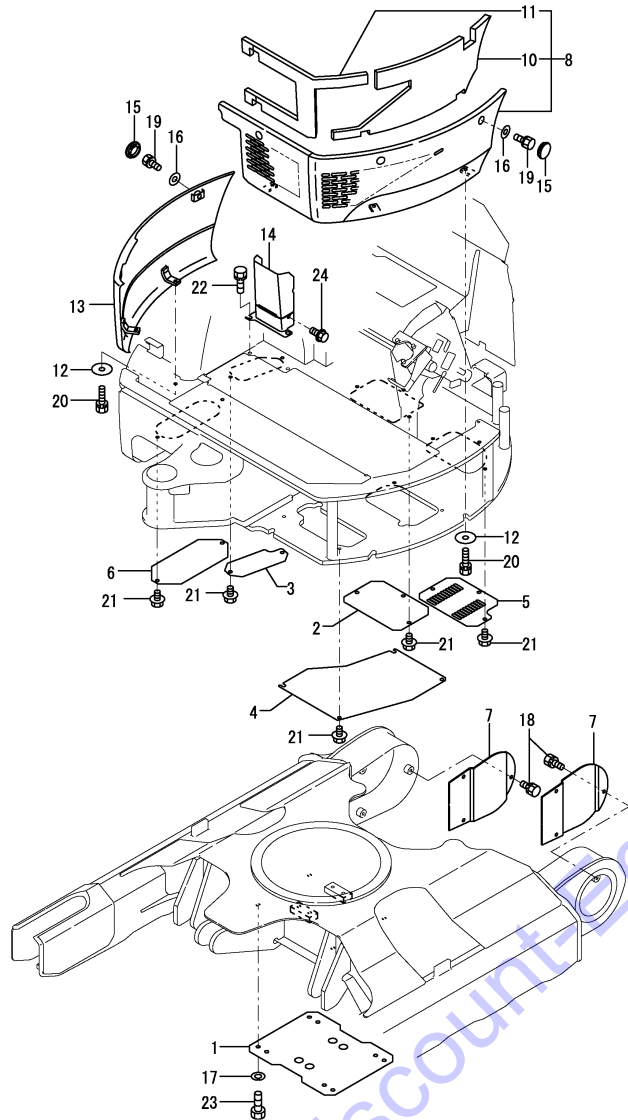
(D)=  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-50762-2	COVER, UNDER	1	1	1					
1-1	1	172141-50762-3	COVER, UNDER	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
1-2	1	172141-50763-1	COVER,UNDER (49)	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
2	1	172456-61100-1	COVER	1	1	1					
2-1	1	172456-61100-2	COVER	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	1	172456-61110-1	COVER	1	1	1					
3-1	1	172456-61110-2	COVER	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
4	1	172458-61110-1	COVER, VALVE	1	1	1					
4-1	1	172458-61110-2	COVER, VALVE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
5	1	172456-61130-1	PLATE, PUMP	1	1	1					
5-1	1	172456-61130-2	PLATE, PUMP	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
6	1	172458-61150-2	COVER, FUEL OIL	1	1	1					
6-1	1	172458-61150-3	COVER,FUEL OIL (49)	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
7	1	172173-61190-2	COVER, TRAVEL	2	2	2					
7-1	1	172173-61190-3	COVER, TRAVEL	2	2	2					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
7-2	1	172173-61191-1	COVER,TRAVEL(GRAY:49)	2	2	2					N
		(A=M45001) (B=M45001) (C=M45001)									
8	1	172A23-61200-1	COVER, FRAME	1	1	1					1
8-1	1	172A23-61200-2	COVER, FRAME	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
10	2	172487-61240	SEAL, SIDECOVER	1	1	1					
11	2	172456-61310	EV, FRAME COVER LA	1	1	1					
11A	1	172437-03351	LABEL,GREASE CYL.	1	1	1					3
11A-1	1	172437-03352	LABEL, GREASE CYL.	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
12	1	172458-61261	WASHER	5	5	5					
13	1	172456-61270-1	COVER, FRAME	1	1	1					2
13-1	1	172456-61270-2	COVER, FRAME	1	1	1					S 2
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
13A	1	172437-03351	LABEL,GREASE CYL.	1	1	1					3
13A-1	1	172437-03352	LABEL, GREASE CYL.	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
14	1	172A36-61410	PLATE ASSY	1	1	1					
15	1	172463-61600	PLUG 28X3.2	5	5	5					
15-1	1	172A21-61600	PLUG 28X3.2	5	5	5					S
		(A=M32643) (B=M32643) (C=M32643)									
16	1	22137-100000	WASHER 10,POLISHED	5	5	5					
17	1	22217-120000	SPRING WASHER 12	4	4	4					
18	1	26013-100202	BOLT W/WASHER M10X20	6	6	6					
19	1	26013-100202	BOLT W/WASHER M10X20	5	5	5					
20	1	26013-100352	BOLT M10X 35	5	5	5					
21	1	26106-100162	BOLT M10X 16 PLATED	14	14	14					
22	1	26106-100202	BOLT M10X 20 PLATED	2	2	2					

Fig.30. COVER(FRAME)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
22-1	1	26106-100162	BOLT M10X 16 PLATED (A=MXXXXX) (B=MXXXXX) (C=MXXXXX)	2	2	2					N
23	1	26116-120252	BOLT M12X 25 PLATED	4	4	4					
24	1	26106-100162	BOLT M10X 16 PLATED (A=MXXXXX) (B=MXXXXX) (C=MXXXXX)	1	1	1					W

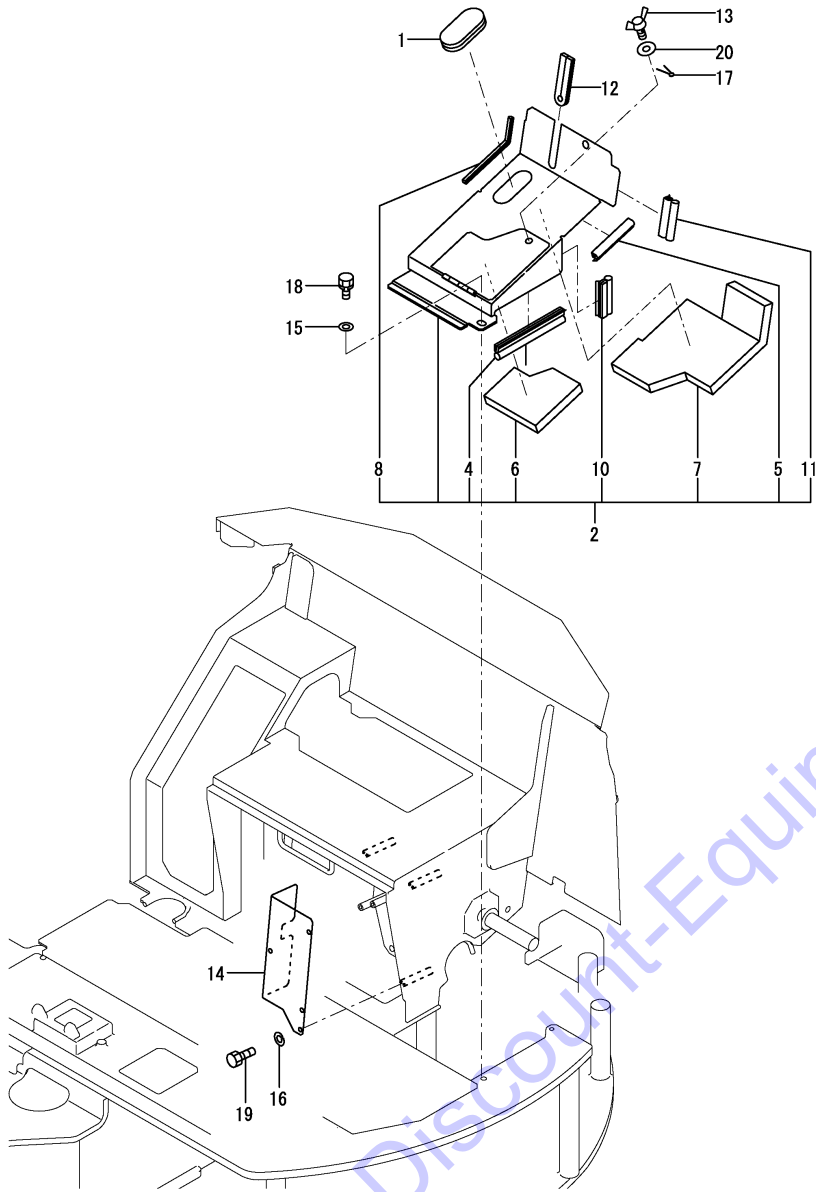
Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.11A.
- (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.13A.
- (3)LABELS ARE NOT ILLUSTRATED.

Fig.31. COVER(AROUND OPERATION)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

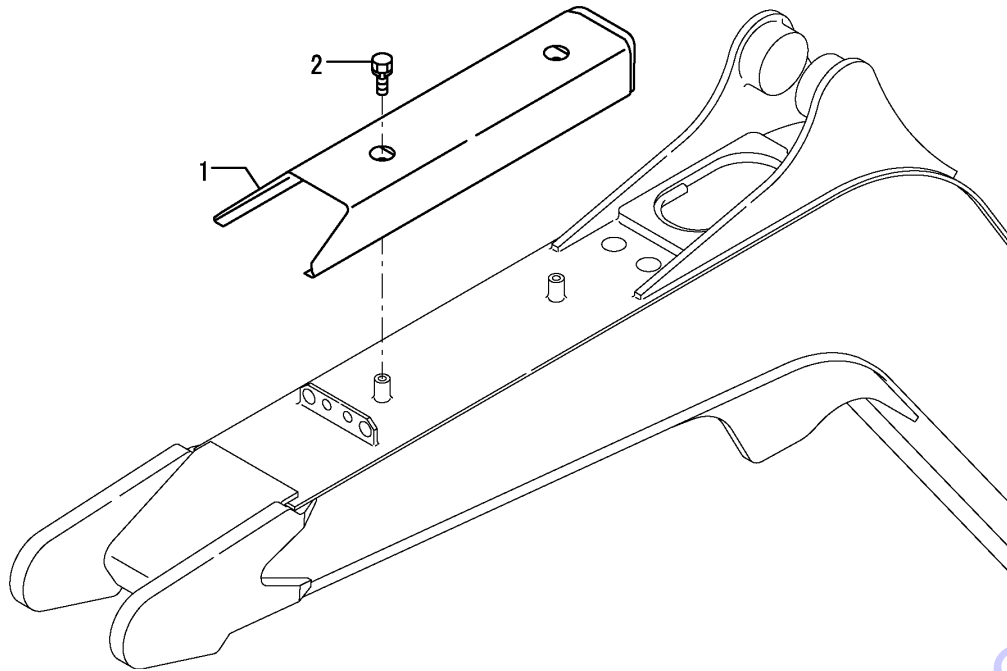


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172146-41320	GROMMET	1	1	1					
2	1	172456-61151	COVER, MULTI	1	1	1					1
2-1	1	172456-61152	COVER, MULTI	1	1	1					N 1
2-2	1	172456-61152-1	COVER, MULTI	1	1	1					S 1
		(A=M/#31760) (B=M/#31760) (C=M/#31760)									
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2-3	1	172456-61153-1	COVER, MULTI(GRAY:49)	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
4	2	172164-61250	RUBBER, SEAL	1	1	1					
5	2	172456-61340	RUBBER, SEAL 105	1	1	1					
6	2	172456-61350	EV, MULTI A	1	1	1					
7	2	172456-61360	EV, MULTI B	1	1	1					
8	2	172146-61370	RUBBER, SEAL	1	1	1					
10	2	172171-65850	RUBBER, SEAL K	1	1	1					
11	2	172164-66800	RUBBER, SEAL 60	1	1	1					
11A	1	172437-03241	LABEL, CRAWLER	1	1	1					2
11A-1	1	172437-03242	LABEL, CRAWLER US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
12	1	172458-61300	GROMMET, MULTI	1	1	1					
13	1	172142-62300	WING BOLT M10X15	1	1	1					
13-1	1	172142-62301	WING BOLT, M10X20	1	1	1					N
		(A=M35780) (B=M35780) (C=M35780)									
14	1	172456-64640	COVER, ELECTRIC	1	1	1					
15	1	22137-100000	WASHER 10, POLISHED	2	2	2					
16	1	22217-060000	SPRING WASHER 6	3	3	3					
17	1	22417-320200	COTTER PIN 3.2X20	1	1	1					
17-1	1	22417-250200	COTTER PIN 2.5X20	1	1	1					N
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
17-2	1	22417-320200	COTTER PIN 3.2X20	1	1	1					N
		(A=M37415) (B=M37415) (C=M37415)									
18	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					
19	1	26116-060122	BOLT 6X12	3	3	3					
20	1	22117-100000	WASHER 10	1	1	1					W
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
20-1	1	22133-100000	WASHER 10	1	1	1					N
		(A=M37415) (B=M37415) (C=M37415)									

Remarks

(1) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO. 11A..  
(2) LABELS ARE NOT ILLUSTRATED.

Fig.32. COVER(BOOM)



OCS10-G44703 32. COVER(BOOM)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

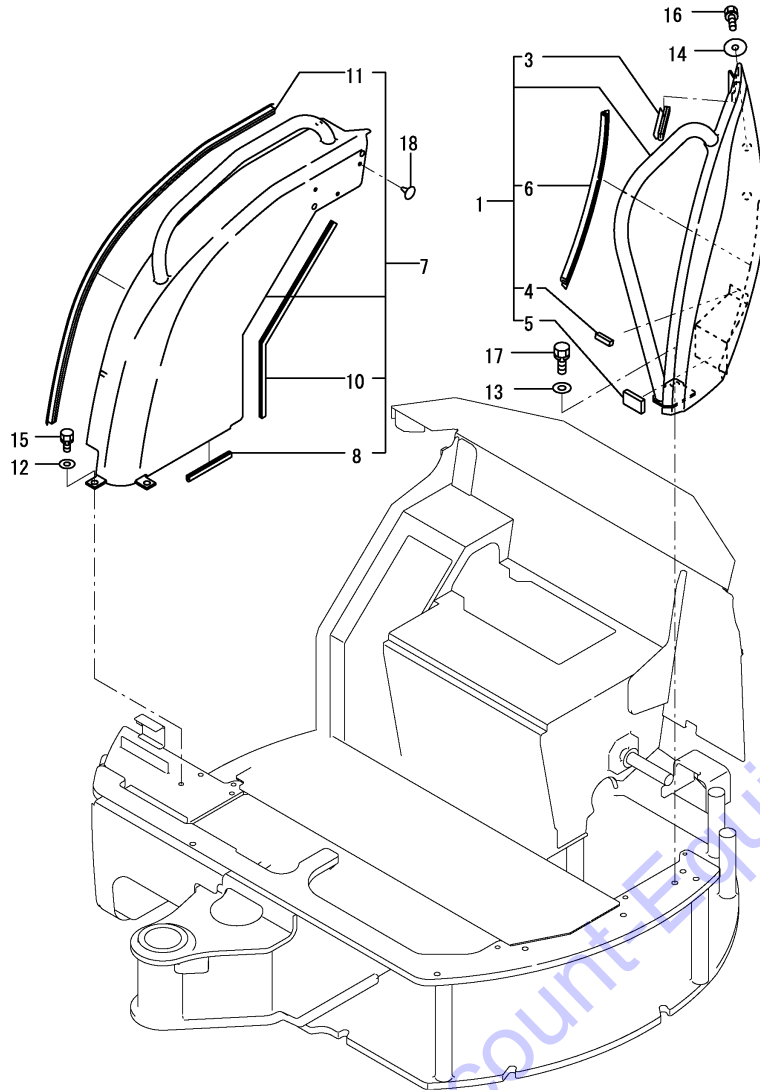
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61963-1	COVER, BOOM	1	1	1					
1-1	1	172456-61963-2	COVER, BOOM(YELLOW2J)	1	1	1					S
		(A=M34345)	(B=M34345)	(C=M34345)							
1-2	1	172456-61964-2	COVER, BOOM	1	1	1					R
		(A=M35180)	(B=M35180)	(C=M35180)							
1-3	1	172456-61964-Y	COVER, BOOM	1	1	1					S
		(A=M45501)	(B=M45501)	(C=M45501)							
2	1	26013-080162	BOLT	2							



Fig.33. COVER(CANOPY)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61400-1	BONNET	1	1	1					1
1-1	1	172456-61400-3	BONNET L ASSY (2J)	1	1	1					S 1
		(A=M34345) (B=M34345) (C=M34345)									
1-2	1	172456-61400-Y	BONNET L ASSY	1	1	1					S 1
		(A=M45501) (B=M45501) (C=M45501)									
3	2	172456-61480	RUBBER 95,SEAL	1	1	1					
4	2	172456-61490	SEAL A	1	1	1					
5	2	172456-61500	SEAL	1	1	1					
6	2	172183-65560	RUBBER 390,SEAL	1	1	1					
6-1	2	172487-64780	RUBBER,SEAL 365	1	1	1					R
		(A=M35868) (B=M35868) (C=M35868)									
6A	1	172469-03121	LABEL, MODEL	1	1	1					3
7	1	172456-61691	COVER ASSY, SIDE	1	1	1					2
8	2	172156-11150	SEAL, ENGINE	1	1	1					
10	2	172458-64140	SEAL	1	1	1					
11	2	172165-65460	RUBBER, SEAL	1	1	1					
11A	1	172472-03240	LABEL,PIN US	1	1	1					3
11A-1	1	172472-03241	LABEL, PINUS	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
11B	1	172472-03250	LABEL, OPERATION	1	1	1					3
12	1	22137-100000	WASHER	4	4	4					
13	1	22137-120000	WASHER	1	1	1					
14	1	22157-100000	WASHER	2	2	2					
15	1	26013-100202	BOLT	4	4	4					
16	1	26013-100252	BOLT	2	2	2					
17	1	26013-120302	BOLT	1	1	1					
18	1	172458-64610	CLIP, TREE	3							4

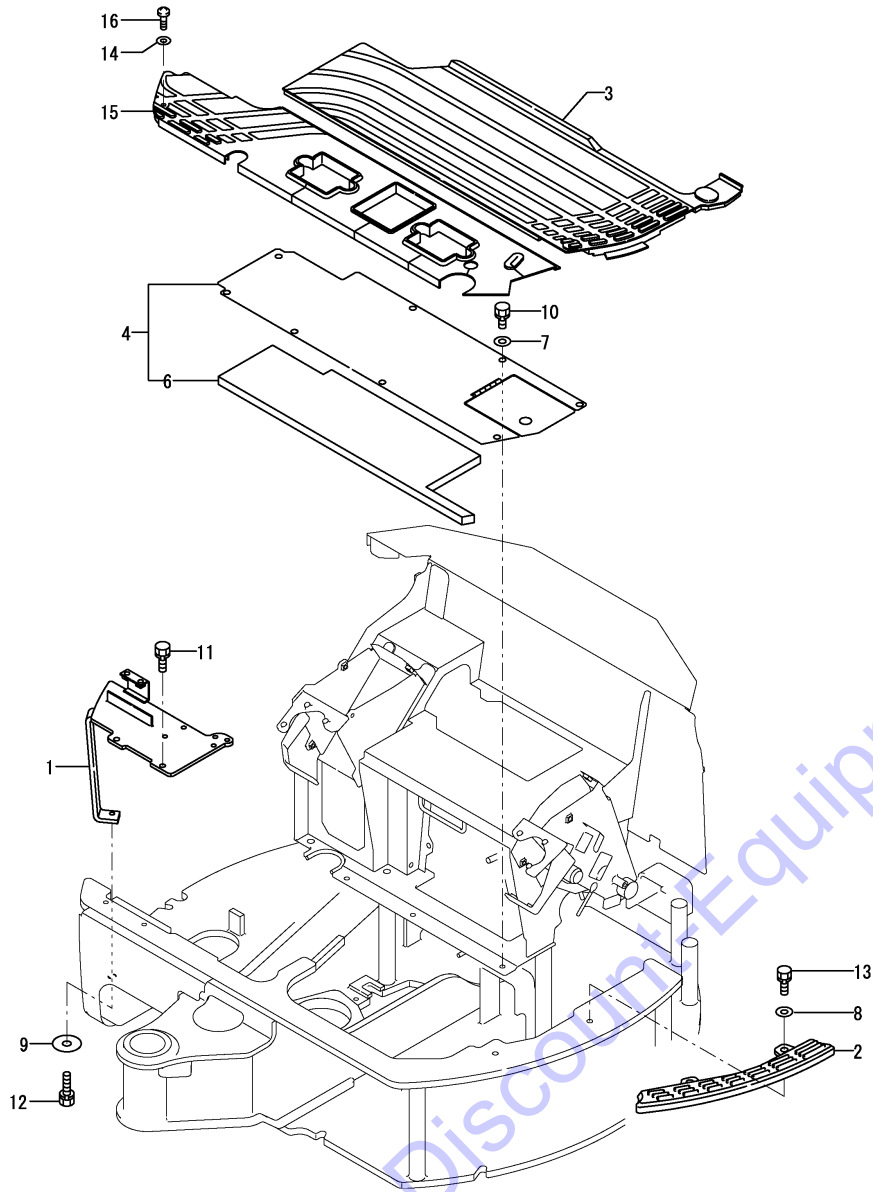
Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.6A.
- (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.11A,11B.
- (3)LABELS ARE NOT ILLUSTRATED.
- (4)NOT USE FOR THE QUICK COUPLER SPEC

Fig.34. STEP

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



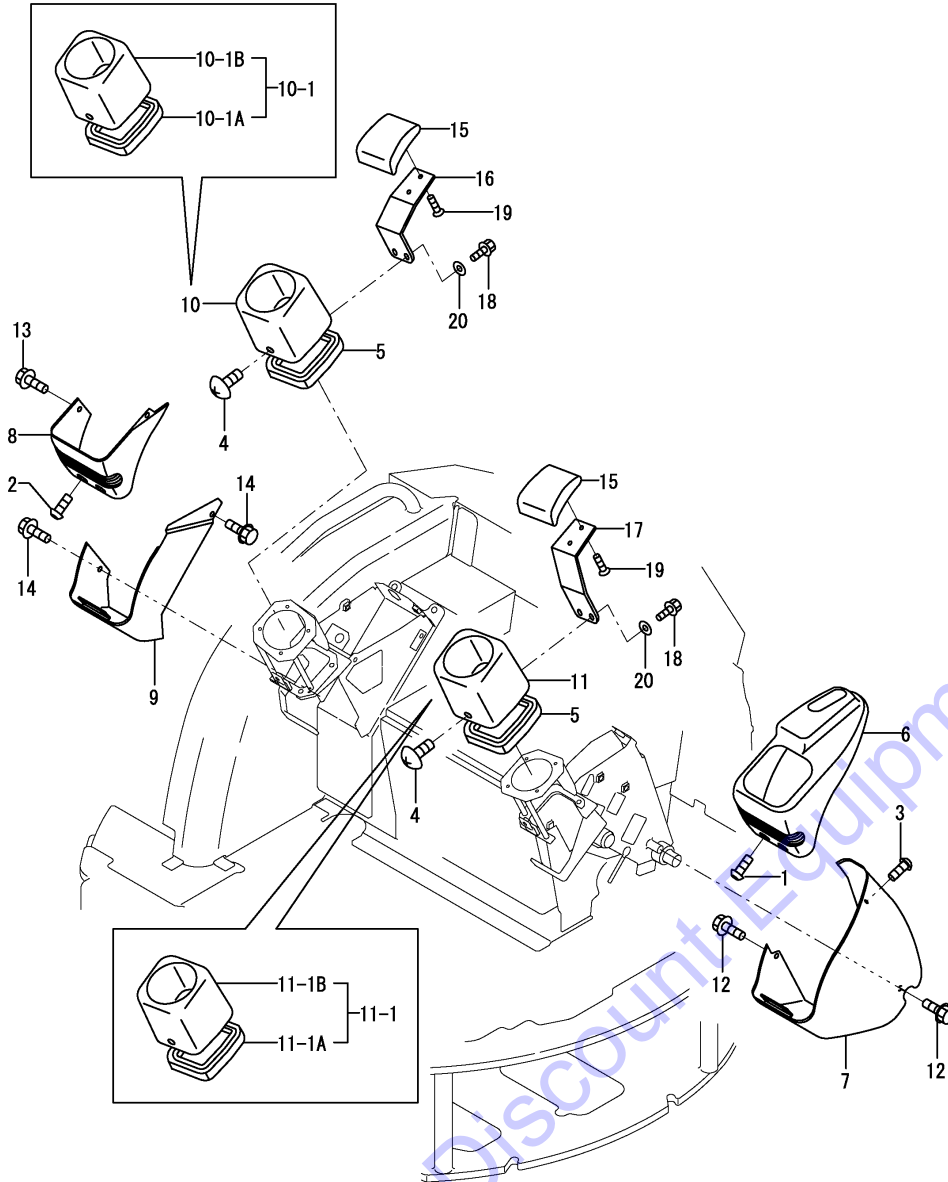
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-62100-1	STEP, FRONT	1	1	1					
1-1	1	172456-62100-2	STEP, FRONT	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	1	172458-62110	STEP, SIDE	1	1	1					
2-1	1	172458-62110-1	STEP, SIDE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	1	172456-62200	MAT A	1	1	1					
4	1	172469-62210	STEP	1	1	1					1
4-1	1	172469-62210-2	STEP ASSY (49)	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
6	2	172469-62310	EV, STEP	1	1	1					
6A	1	172438-03300	LABEL	1	1	1					2
7	1	22137-100000	WASHER 10,POLISHED	8	8	8					
8	1	22137-120000	WASHER 12,POLISHED	2	2	2					
9	1	22157-100000	WASHER 10	1	1	1					
10	1	26013-100202	BOLT W/WASHER M10X20	8	8	8					
11	1	26013-100252	BOLT W/WASHER M10X25	2	2	2					
12	1	26013-100352	BOLT M10X 35	1	1	1					
13	1	26013-120302	BOLT W/WASHER M12X30	2	2	2					
14	1	172458-62430	WASHER M8	1	1	1					
15	1	172469-62500	FLOOR MAT B (CANOPY)	1	1	1					
16	1	172137-69850	SCREW	1	1	1					

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.6A.  
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.35. INSTRUMENT PANEL & ARM LEST

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

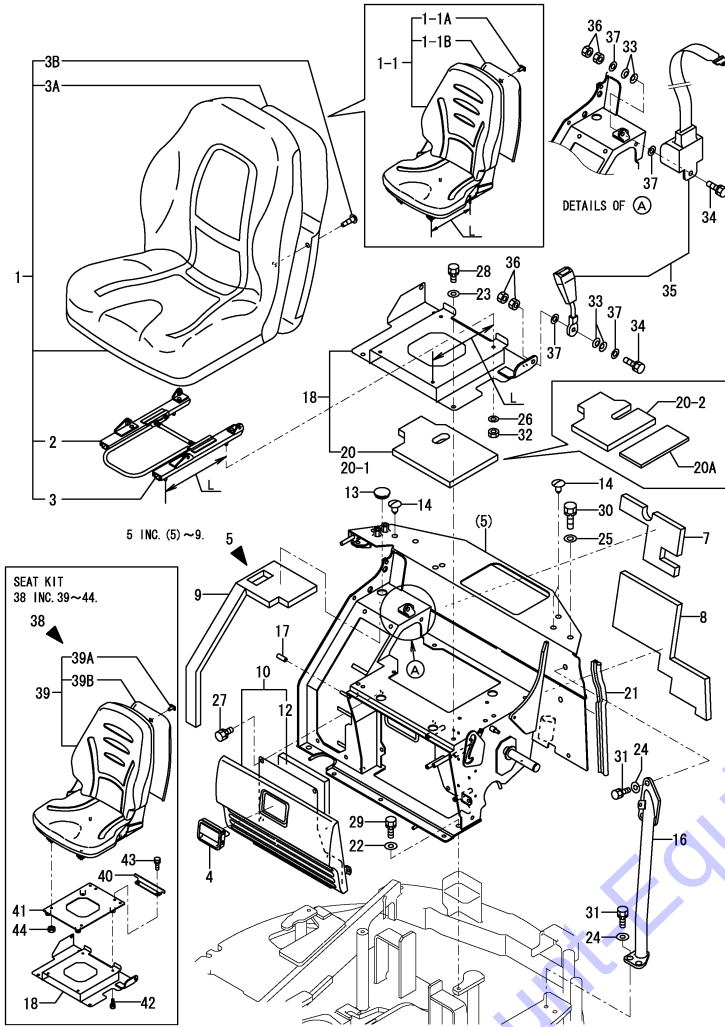


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-46720	BOLT 8X20	3	3	3					
2	1	172458-46720	BOLT 8X20	2	2	2					
3	1	172458-46720	BOLT 8X20	1	1	1					
4	1	172458-46720	BOLT 8X20	2	2	2					
5	1	172162-62540	SEAL,STEP L	2	2	2					Z
		(A=M35238) (B=M35238) (C=M35238)									
6	1	172458-63100	INSTRUMENT PANEL L	1	1	1					1
6A	1	172458-03220	LABEL,ACCELERATOR	1	1	1					2
7	1	172458-63120	INSTRUMENT PANEL L	1	1	1					
8	1	172458-63130	INSTRUMENT PANEL R	1	1	1					
9	1	172458-63140	INSTRUMENT PANEL R	1	1	1					
10	1	172472-63210	COVER R,US	1	1	1					Z
		(A=M35238) (B=M35238) (C=M35238)									
10-1	1	172472-63150	COVER,R(US ASSY	1	1	1					W
		(A=M35238) (B=M35238) (C=M35238)									
10-1A	2	172162-62540	SEAL,STEP L	1	1	1					
10-1B	2	172472-63210	COVER R,US	1	1	1					
11	1	172472-63220	COVER L,US	1	1	1					Z
		(A=M35238) (B=M35238) (C=M35238)									
11-1	1	172472-63160	COVER,L(US ASSY	1	1	1					W
		(A=M35238) (B=M35238) (C=M35238)									
11-1A	2	172162-62540	SEAL,STEP L	1	1	1					
11-1B	2	172472-63220	COVER L,US	1	1	1					
12	1	172519-63240	BOLT 8X 16	2	2	2					
13	1	172519-63240	BOLT 8X 16	1	1	1					
14	1	172519-63240	BOLT 8X 16	2	2	2					
15	1	172441-44320	ARM REST	2	2	2					
16	1	172472-64531-1	PLATE, ARMREST	1	1	1					
16-1	1	172472-64532-2	PLATE, ARMREST	1	1	1					N
		(A=M/#30845) (B=M/#30845) (C=M/#30845)									
16-2	1	172472-64532-1	PLATE, ARMREST	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
17	1	172472-64541-1	PLATE, ARMREST	1	1	1					
17-1	1	172472-64542-2	PLATE, ARMREST	1	1	1					N
		(A=M/#30845) (B=M/#30845) (C=M/#30845)									
17-2	1	172472-64542-1	PLATE, ARMREST	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
18	1	172165-66980	BOLT M 8X 25	4	4	4					
19	1	26577-080122	SCREW, M8X12	4	4	4					
20	1	22137-080000	WASHER 8, POLISHED	4	4	4					W
		(A=M/#30845) (B=M/#30845) (C=M/#30845)									

Remarks  
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.6A.  
(2)LABELS ARE NOT ILLUSTRATED.

Fig.36. SEAT & SEAT MOUNT

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=



Remarks

- (1)USE W/9A,9B,9C & 9D.
- (2)USE W/12A,12B,12C & 12D.
- (3)LABELS ARE NOT ILLUSTRATED.
- (4)L=REF.NO.1&18 255,NO.1-1&18-1 285. INTERCHANGEABEL BY SIMULTANEOUS REPLACEMENT WITH REF.NO.1-1&18-1
- (5)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.20A.
- (6)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.33-1,34-1, 36-1 & 37-1.

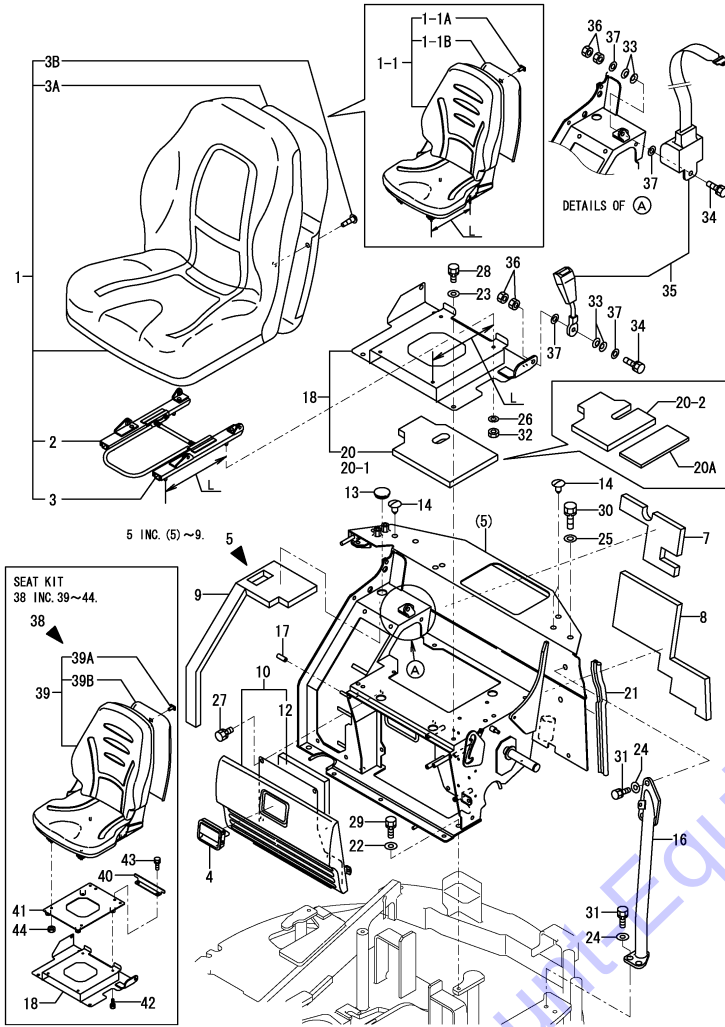
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172455-64200	SEAT, OPERATOR	1	1	1					
1-1	1	172A46-64200	OPERATOR SEAT ASSY	1	1	1					F 4
		(A=M32796) (B=M32796) (C=M32796)									
1-1A	2	172A46-64180	LOCK-FUSE,LID	1	1	1					W
		(A=M32796) (B=M32796) (C=M32796)									
1-1B	2	172A46-64190	BACKCOVER,LID	1	1	1					W
		(A=M32796) (B=M32796) (C=M32796)									
2	2	172455-64600	TRACK ASSY, SEAT (R	1	1	1					Z
		(A=M32796) (B=M32796) (C=M32796)									
3	2	172455-64610	TRACK ASSY, SEAT (L	1	1	1					Z
		(A=M32796) (B=M32796) (C=M32796)									
3A	2	172455-64590	BOARD, FR SEAT BACK	1	1	1					W
		(A=M/#31944) (B=M/#31944) (C=M/#31944)									
3A-1	2	172455-64590	BOARD, FR SEAT BACK	1	1	1					Z
		(A=M32796) (B=M32796) (C=M32796)									
3B	2	172455-64710	SCREW	14	14	14					W
		(A=M/#31944) (B=M/#31944) (C=M/#31944)									
3B-1	2	172455-64710	SCREW	14	14	14					Z
		(A=M32796) (B=M32796) (C=M32796)									
4	1	172187-61421	HANDLE, LOCK	1	1	1					1
5	1	172A36-64200	MOUNT ASSY,SEAT	1	1	1					N 1
5-1	1	172A36-64201	MOUNT ASSY,SEAT	1	1	1					N 1
		(A=M33146) (B=M33146) (C=M33146)									
7	2	172A23-64700	EV,SEATMOUNT A	1	1	1					
8	2	172456-64710	EV, SEAT MOUNT B	1	1	1					
9	2	172A23-64720	EV,SEATMOUNT C	1	1	1					
9A	1	172472-03171	LABEL,FUSE US	1	1	1					3
9B	1	172437-03530	LABEL,RE-START	1	1	1					3
9C	1	172437-03300	LABEL,MANUAL	1	1	1					3
9C-1	1	172437-03301	LABEL, MANUAL US	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
9C-2	1	172437-03302	LABEL, MANUAL US	1	1	1					N 3
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
9D	1	172437-03470	LABEL,LEVER LOCK	1	1	1					3
9D-1	1	172437-03471	LABEL, LEVER LOCK US	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
10	1	172A23-64460	GRILLE ASSY	1	1	1					2
10-1	1	172A23-64461	GRILLE ASSY	1	1	1					N
		(A=M 33952) (B=M 33952) (C=M 33952)									
12	2	172A23-64500	EV,GRILLE	1	1	1					
12-1	2	172A23-64501	EV,GRILLE	1	1	1					N
		(A=M 33952) (B=M 33952) (C=M 33952)									
12A	1	172469-03140	LABEL,OIL&WATER	1	1	1					3
12B	1	172472-03160	LABEL, GREASE	1	1	1					3
12C	1	172A36-03110	LABEL,SPECIFICATION	1	1	1					3
12C-1	1	172A36-03111	LABEL, SPECIFICATION	1	1	1					N 3
		(A=M/#31177) (B=M/#31177) (C=M/#31177)									
12D	1	172472-03140	LABEL,SUPPORT US	1	1	1					3
12D-1	1	172472-03141	LABEL, SUPPORT US	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
13	1	172458-64590	PLUG 28X3.2	1	1	1					



Fig.36. SEAT & SEAT MOUNT

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

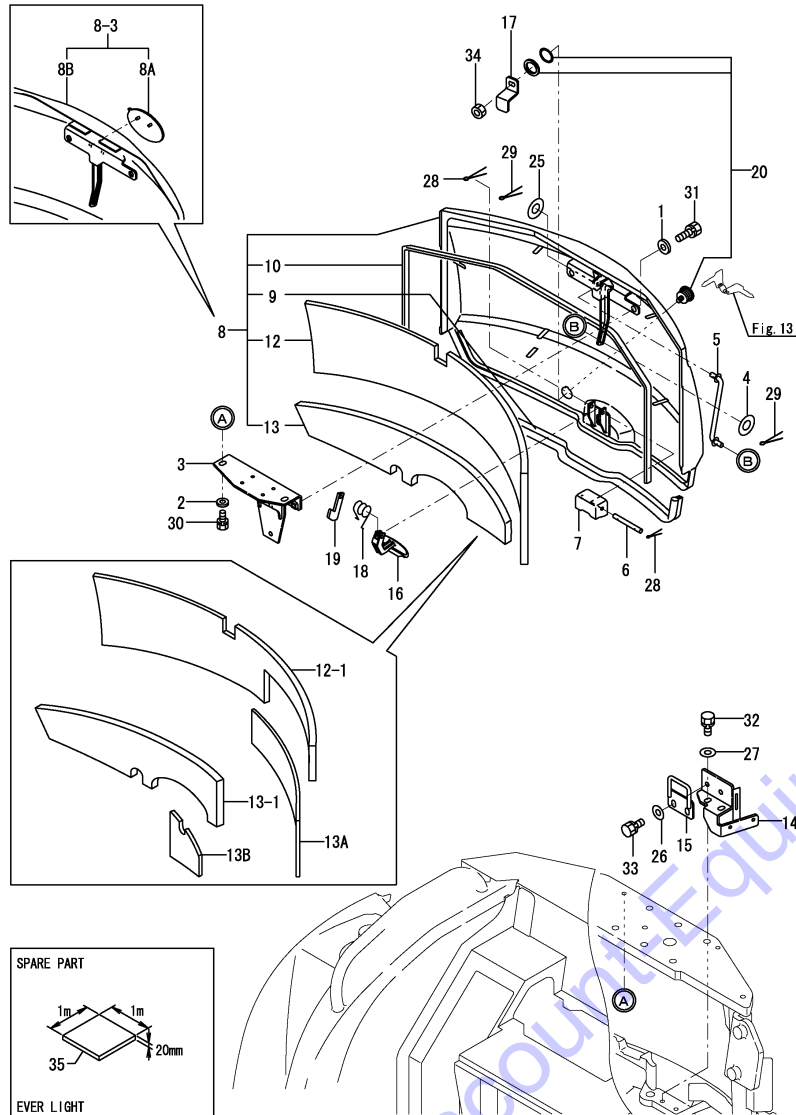


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
41	2	172A46-64500	PLATE ASSY,SEAT	1	1	1					W
42	2	26013-080202	BOLT W/WASHER M8X20	4	4	4					W
43	2	26013-100202	BOLT W/WASHER M10X20	2	2	2					W
44	2	26051-080002	NUT M 8	4	4	4					W

Remarks  
 (1)USE W/9A,9B,9C & 9D.  
 (2)USE W/12A,12B,12C & 12D.  
 (3)LABELS ARE NOT ILLUSTRATED.  
 (4)L=REF.NO.1&18 255,NO.1-1&18-1 285.  
 INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.1-1&18-1  
 (5)INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.20A.  
 (6)INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.33-1,34-1,  
 36-1 & 37-1.

Fig.37. BONNET(1)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER	2	2	2					
2	1	194145-04810	WASHER	2	2	2					
3	1	172458-11552	BRACKET ASSY	1	1	1					
4	1	1A1380-62160	WASHER	1	1	1					
5	1	172444-64730	ROD ASSY, STOPPER	1	1	1					
6	1	172458-65050	SHAFT	1	1	1					
7	1	172458-65060	COVER, LOCK	1	1	1					
8	1	172487-65100-1	BONNET	1	1	1					1
8-1	1	172487-65101-1	BONNET	1	1	1					N 1
8-2	1	(A=M 33952) (B=M 33952) (C=M 33952) 172487-65101-2	BONNET A ASSY(2J)	1	1	1					S 1
8-3	1	(A=M34345) (B=M34345) (C=M34345) 172A23-08450	BONNET KIT, Y	1	1	1					S 1
8A	2	(A=M45501) (B=M45501) (C=M45501) 172A64-03050	EMBLEM ASSY,L1 Y	1	1	1					W
8B	2	(A=M45501) (B=M45501) (C=M45501) 172A23-65600	BONNET ASSY	1	1	1					W 1
9	3	172458-65070	SEAL	1	1	1					
10	3	172458-65080	RUBBER, SEAL	1	1	1					
12	3	172487-65110	SEAL	1	1	1					
12-1	3	(A=M 33952) (B=M 33952) (C=M 33952) 172487-65111	SEAL A	1	1	1					F 3
13	3	172487-65120	SEAL	1	1	1					
13-1	3	(A=M 33952) (B=M 33952) (C=M 33952) 172487-65121	SEAL B	1	1	1					F 4
13A	3	(A=M 33952) (B=M 33952) (C=M 33952) 172487-65130	INSURATOR	1	1	1					W
13B	3	(A=M 33952) (B=M 33952) (C=M 33952) 172487-65140	INSURATOR	1	1	1					W
13C	1	172458-03160	LABEL, REAR	1	1	1					2
13D	1	172437-03380	LABEL, SWING AREA	1	1	1					2
13D-1	1	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03381	LABEL, SWING AREA	1	1	1					N 2
13E	1	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03401	LABEL (ENG COVER US	1	1	1					2
13E-1	1	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03402	LABEL, ENGINE COVER	1	1	1					N 2
13F	1	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03421	LABEL, MUFFLER	1	1	1					2
13F-1	1	(A=M/#31399) (B=M/#31399) (C=M/#31399) 172437-03422	LABEL, MUFFLER	1	1	1					N 2
14	1	(A=M/#32643) (B=M/#32643) (C=M/#32643) 172456-65150	BRACKET, LOCK	1	1	1					
14-1	1	(A=M/#32643) (B=M/#32643) (C=M/#32643) 172456-65150-1	BRACKET, LOCK	1	1	1					S
15	1	172456-65171	BRACKET B, LOCK	1	1	1					
16	1	172187-65210	LEVER ASSY, LOCK	1	1	1					
17	1	172458-65271	PLATE, LOCK	1	1	1					
18	1	172734-65270	SPRING, CATCH	1	1	1					
19	1	172124-65480	CATCHER	1	1	1					
20	1	172164-66170	KEY ASSY, CYLINDER	1	1	1					
25	1	22137-080000	WASHER	1	1	1					
26	1	22137-100000	WASHER	2	2	2					

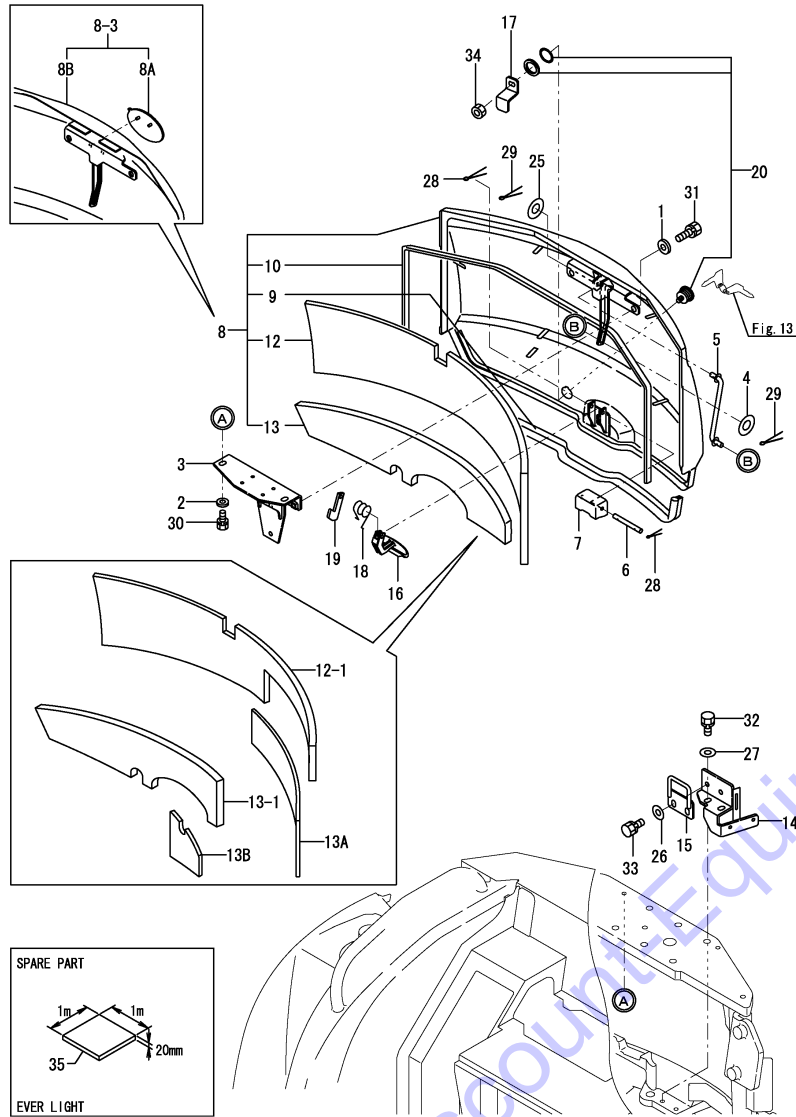
Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.13C,13D,13E & 13F.
- (2)LABELS ARE NOT ILLUSTRATED.
- (3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.13A.
- (4)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.13B.

Fig.37. BONNET(1)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
27	1	22137-100000	WASHER	2	2	2					
28	1	22417-200200	PIN, COTTER	2	2	2					
29	1	22417-200200	PIN, COTTER	2	2	2					
30	1	26013-100252	BOLT	2	2	2					
31	1	26013-100252	BOLT	2	2	2					
32	1	26013-100252	BOLT	2	2	2					
33	1	26013-100252	BOLT	2	2	2					
34	1	26347-100002	NUT	1	1	1					
35	1	172478-65750	SPONGE	1	1	1					

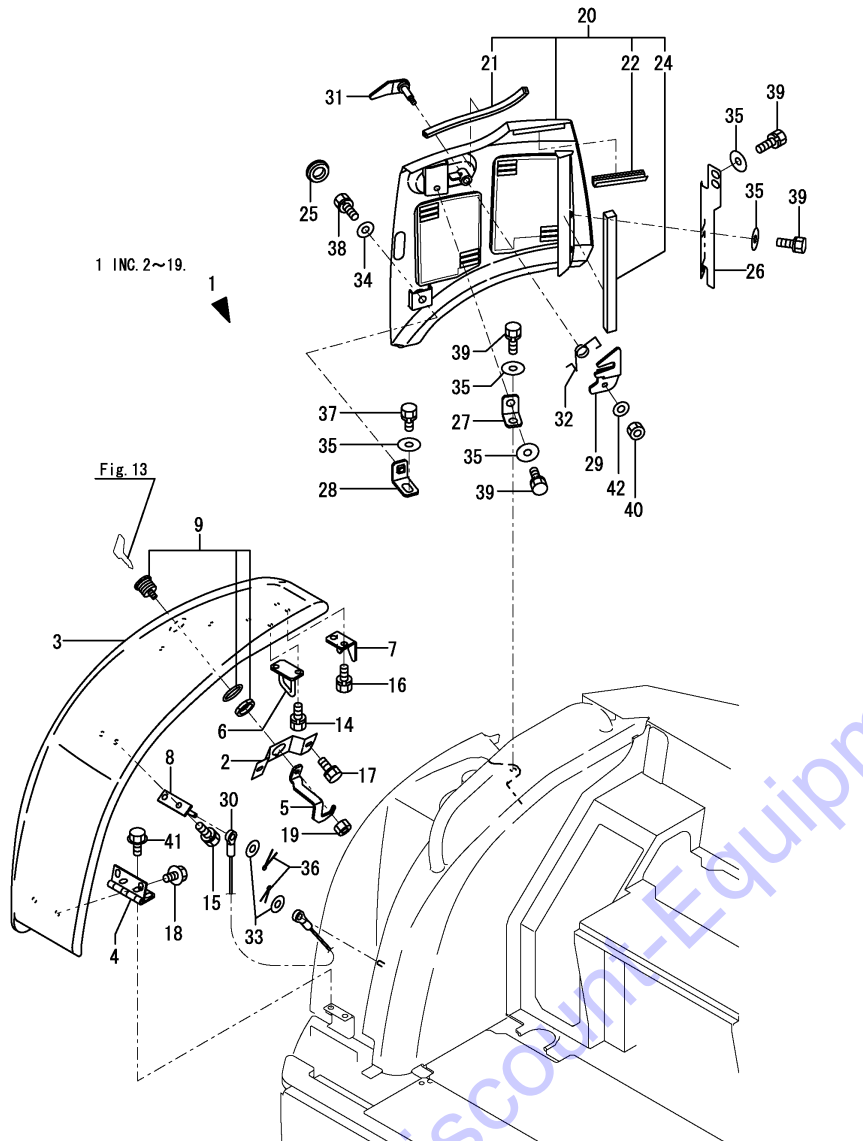
Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.13C,13D,13E & 13F.  
 (2)LABELS ARE NOT ILLUSTRATED.  
 (3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.13A.  
 (4)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.13B.



Fig.38. BONNET(2)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



Remarks

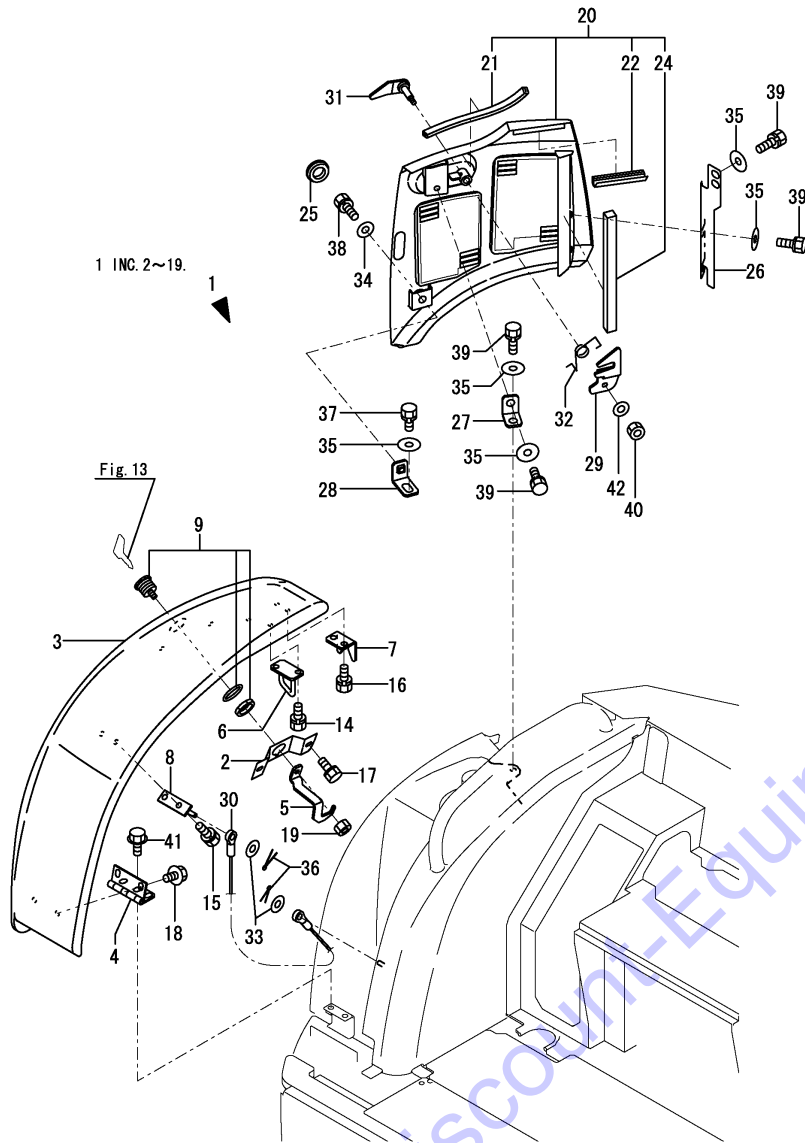
- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.19A,19B.
- (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.24A.
- (3)LABELS ARE NOT ILLUSTRATED.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R		
				(A)	(B)	(C)	(D)	(E)	(F)				
1	1	172469-65490	BONNET ASSY (A=M/#32722) (B=M/#32722) (C=M/#32722)	1	1	1					W	2	
1-1	1	172A23-65490	BONNET ASSY,B TY (A=M45501) (B=M45501) (C=M45501)	1	1	1					S	2	
2	2	172455-65230	PLATE, KEY	1	1	1							
3	2	172469-65500	BONNET	1	1	1						2	
3-1	2	172A23-65500	BONNET,B Y (A=M45501) (B=M45501) (C=M45501)	1	1	1					S	2	
4	2	172456-65511-1	HINGE, BONNET	1	1	1							
4-1	2	172456-65511-2	HINGE, BONNET (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1	1					S		
4-2	2	172456-65511-3	HINGE,BONNET B (A=MXXXXX) (B=MXXXXX) (C=MXXXXX)	1	1	1						N	
5	2	172487-65520	PLATE,HOOK	1	1	1							
6	2	172458-65540	PLATE ASSY, STOPPER	1	1	1							
7	2	172458-65560	PLATE, GUIDE	1	1	1							
8	2	172458-65640	STAY ASSY, WIRE	1	1	1							
9	2	172164-66170	KEY ASSY, CYLINDER	1	1	1							
14	2	26013-100202	BOLT	2	2	2							
15	2	26013-100202	BOLT	2	2	2							
16	2	26013-100202	BOLT	2	2	2							
16-1	2	26014-100202	BOLT (A=M/#32722) (B=M/#32722) (C=M/#32722)	2	2	2						N	
17	2	26013-100202	BOLT	2	2	2							
17-1	2	26014-100202	BOLT (A=M/#32722) (B=M/#32722) (C=M/#32722)	2	2	2						N	
18	2	26106-100162	BOLT	2	2	2							
19	2	26347-100002	NUT	1	1	1							
19A	1	172437-03500	LABEL, FUEL	1	1	1						3	
19A-1	1	172437-03501	LABEL, FUEL (A=M/#31399) (B=M/#31399) (C=M/#31399)	1	1	1					N	3	
19B	1	172437-03360	LABEL,BATTERY	1	1	1						3	
19B-1	1	172437-03361	LABEL, BATTERY (A=M/#31399) (B=M/#31399) (C=M/#31399)	1	1	1					N	3	
20	1	172456-65302-1	BONNET	1	1	1						1	
20-1	1	172456-65302-3	BONNET R ASSY (2J) (A=M34345) (B=M34345) (C=M34345)	1	1	1						S	1
20-2	1	172456-65302-Y	BONNET R ASSY (A=M45501) (B=M45501) (C=M45501)	1	1	1						S	1
21	2	172434-61190	TRIM	1	1	1							
22	2	172458-61500	RUBBER, SEAL	1	1	1							
24	2	172456-65890	SEAL 20X20	1	1	1							
24A	1	172463-03330	LABEL,COVER	1	1	1						3	
25	1	172463-65410	PLUG	1	1	1							
25-1	1	172A21-61600	PLUG (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	1	1	1						N	
26	1	172456-65441	BRACKET A	1	1	1							
27	1	172456-65450	BRACKET B,BONNET R	1	1	1							
28	1	172456-65461	BRACKET ASSY	1	1	1							
29	1	172456-65520	PLATE,HOOK	1	1	1							
30	1	172458-65600	CABLE	1	1	1							

Fig.38. BONNET(2)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



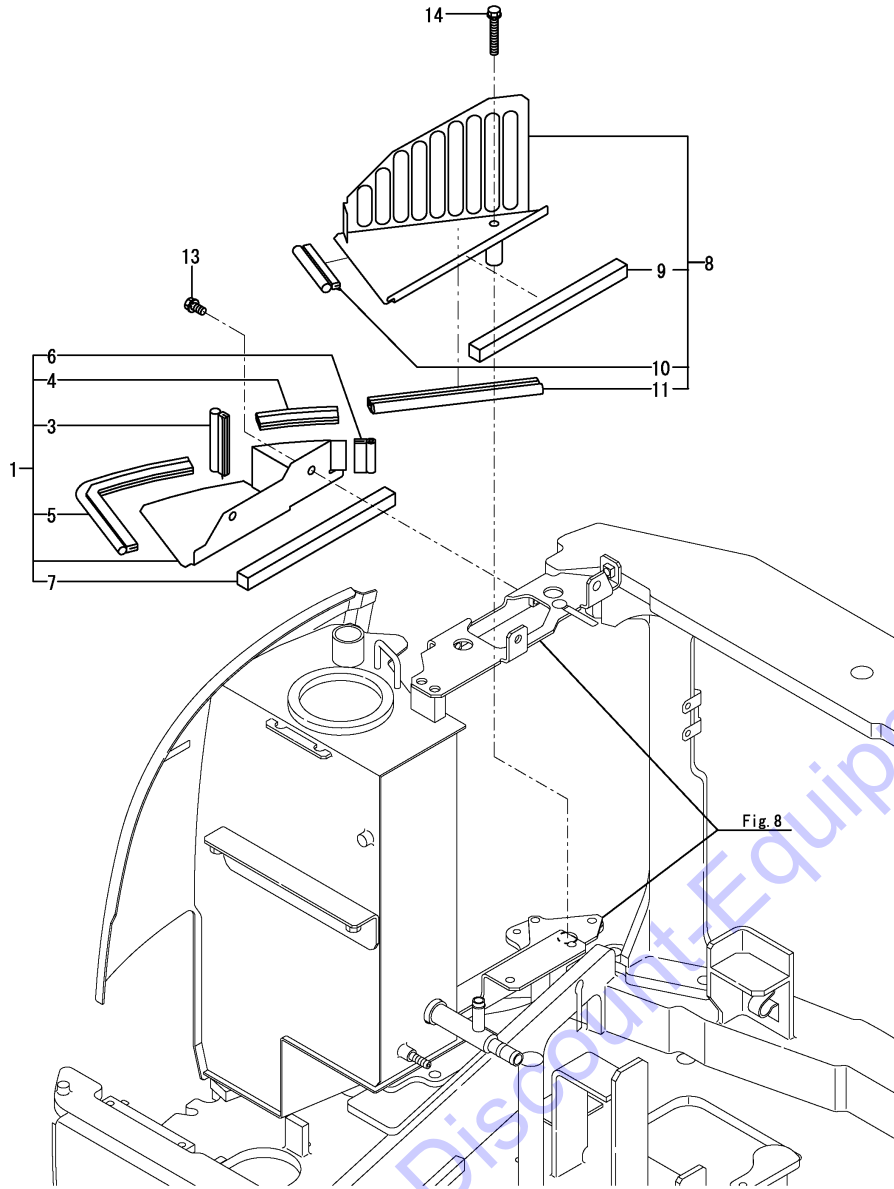
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
31	1	172458-65610	HOOK ASSY	1	1	1					
32	1	172156-65690	SPRING, STOPPER	1	1	1					
33	1	22137-080000	WASHER	2	2	2					
34	1	22137-100000	WASHER	1	1	1					
35	1	22157-100000	WASHER	7	7	7					
35-1	1	22157-100000	WASHER	6	6	6					K
		(A=M/#32722) (B=M/#32722) (C=M/#32722)									
36	1	22417-200200	PIN, COTTER	2	2	2					
37	1	26013-100202	BOLT	1	1	1					
38	1	26013-100252	BOLT	1	1	1					
39	1	26013-100252	BOLT	6	6	6					
39-1	1	26013-100252	BOLT	5	5	5					K
		(A=M/#32722) (B=M/#32722) (C=M/#32722)									
40	1	26347-080002	NUT	1	1	1					
41	1	26106-100162	BOLT	2	2	2					W
		(A=M/#32722) (B=M/#32722) (C=M/#32722)									
42	1	22137-080000	WASHER	1	1	1					W
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									

Remarks

- (1) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO. 19A, 19B.
- (2) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO. 24A.
- (3) LABELS ARE NOT ILLUSTRATED.

Fig.39. DUCT

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=



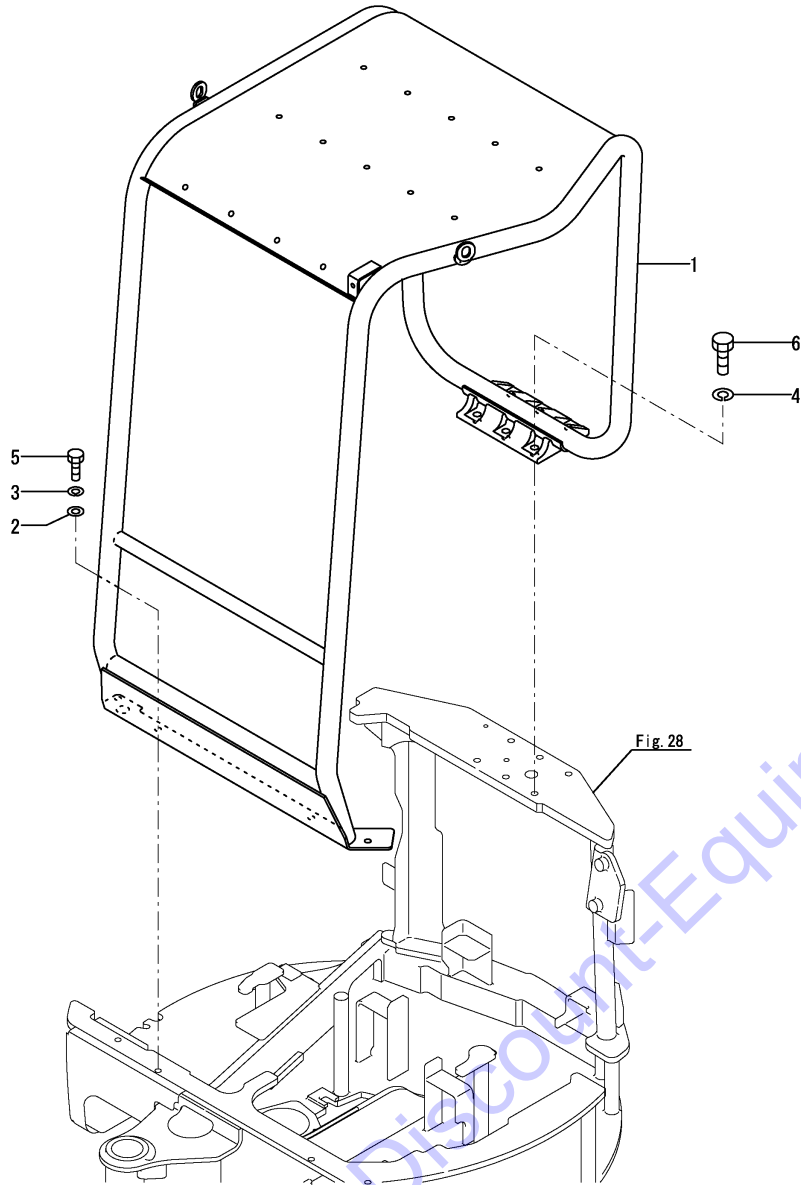
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-65700	DUCT ASSY	1	1	1					1
1-1	1	172A23-65700-1	DUCT ASSY	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
3	2	172456-65790	RUBBER, SEAL	1	1	1					
4	2	172456-65860	RUBBER, SEAL	1	1	1					
4-1	2	172455-63660	SEAL, RUBBER	1	1	1					N
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
5	2	172164-66480	RUBBER 340, SEAL	1	1	1					
6	2	172164-66800	RUBBER, SEAL 60	1	1	1					
7	2	172480-75260	SEAL-B, REDERVER	1	1	1					
7A	1	172437-03390	LABEL,RADIATOR	1	1	1					2
7A-1	1	172437-03391	LABEL, RADIATOR	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
8	1	172A23-65750-2	DUCT ASSY	1	1	1					
8-1	1	172A23-65750-3	DUCT ASSY	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
9	2	172480-13520	SEAL-A	1	1	1					
10	2	172164-61250	RUBBER, SEAL	1	1	1					
11	2	172175-64810	SEAL	1	1	1					
11-1	2	172444-54910	SEAL, WEIGHT B	1	1	1					N
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
13	1	26013-100202	BOLT	2	2	2					
14	1	26013-100752	BOLT	1	1	1					

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.7A.  
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.40. CANOPY

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-66300	CANOPY ASSY, ROPS	1	1	1					1
1-1	1	172469-66300-1	CANOPY,ROPS(GREEN73)	1	1	1					S 1
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
1A	1	172469-03131	LABEL, LIFT US	1							2
1A-1	1	172469-03132	LABEL, LIFT US	1							N
		(A=M33952)									
1B	1	172490-03200	LABEL	1	1	1					2
1C	1	172437-03310	LABEL,SLOPE	1	1	1					2
1C-1	1	172437-03311	LABEL, SLOPE US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1C-2	1	172437-03312	LABEL,SLOPE US	1	1	1					N 2
		(A=M/#32044) (B=M/#32044) (C=M/#32044)									
1D	1	172437-03341	LABEL, TRANSPORT	1	1	1					2
1D-1	1	172437-03342	LABEL, TRANSPORT US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1D-2	1	172437-03343	LABEL, TRANSPORT US	1	1	1					N 2
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
1E	1	172437-03371	LABEL	1	1	1					2
1E-1	1	172437-03372	LABEL, NEUTRAL US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1F	1	172437-03440	LABEL,ROPS	1	1	1					2
1F-1	1	172437-03441	LABEL, ROPS US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1G	1	172437-03450	LABEL,SEAT BELT	1	1	1					2
1G-1	1	172437-03451	LABEL, SEAT BELT US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1H	1	172437-03600	LABEL	1	1	1					2
1H-1	1	172437-03601	LABEL, 2-WAY US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1I	1	172469-03152	LABEL,LIFT Q US	1	1	1					2
1I-1	1	172469-03153	LABEL, LIFT Q US	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
1I-2	1	172469-03154	LABEL, LIFT Q US	1	1	1					N
		(A=M33952) (B=M33952) (C=M33952)									
2	1	172149-66550	WASHER	5	5	5					
2-1	1	172149-66550	WASHER	4	4	4					K
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									
3	1	22217-120000	SPRING WASHER 12	5	5	5					
3-1	1	22217-120000	SPRING WASHER 12	4	4	4					K
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									
4	1	22217-160000	SPRING WASHER 16	6	6	6					
5	1	26076-120402	BOLT 10.9 12X 4	5	5	5					
5-1	1	26076-120402	BOLT 10.9 12X 4	4	4	4					K
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									
6	1	26076-160402	BOLT 10.9 16X40	6	6	6					

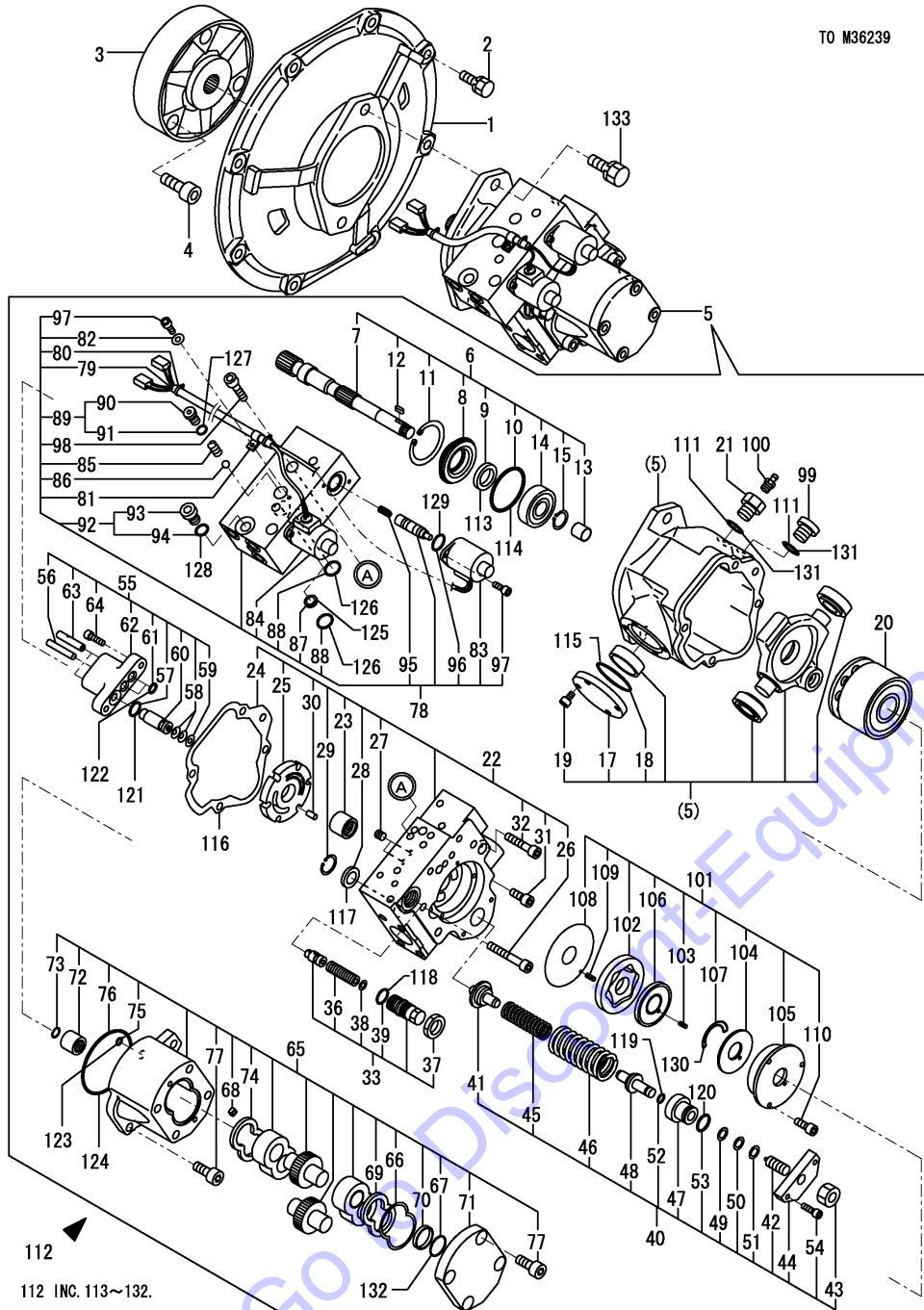
Remarks

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

Fig.41. HYD.OIL PUMP & JOINT(TO M36239)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



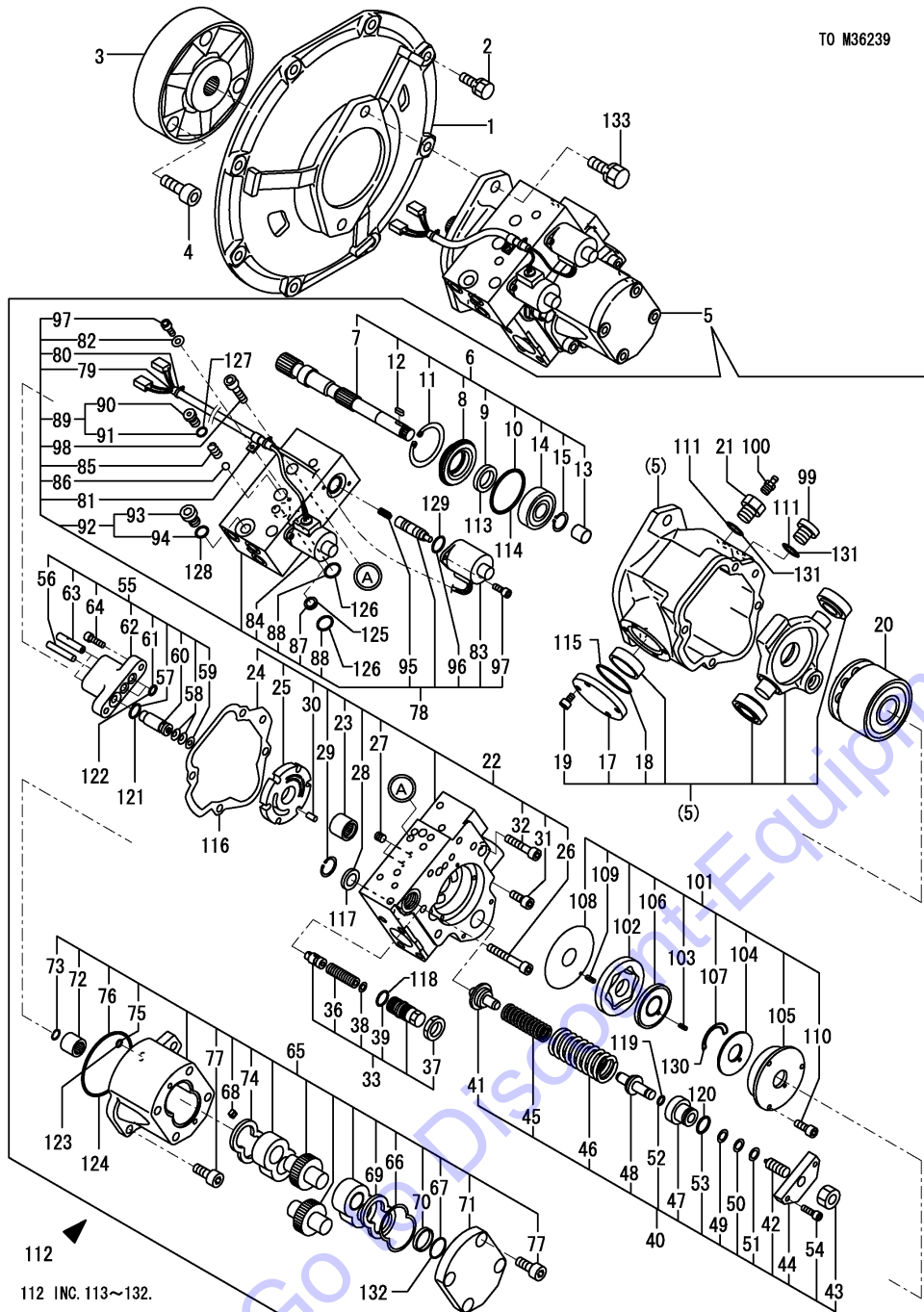
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-3	COVER, FLYWHEEL	1							
1-1	1	172168-71101-4	COVER, FLYWHEEL	1							S
(A=M/#32643)											
2	1	26013-100302	BOLT M10X 30	8							
3	1	172165-71200	COUPLING	1							
4	1	26450-120402	BOLT M12X 40	3							
5	1	172456-73100	PUMP ASSY	1							
6	2	172456-73110	SHAFT ASSY	1							
7	3	172456-73120	SHAFT	1							
8	3	172456-73130	CASE, SEAL	1							
9	3	172456-73140	SEAL, OIL	1							
10	3	172456-73150	O-RING	1							
11	3	172456-73160	CIRCLIP,	1							
12	3	172456-73170	KEY	1							
13	3	172456-73180	PIN BUSH	1							
14	3	172179-73220	BEARING,	1							
15	3	22242-000200	CIRCLIP 20	1							
17	3	172179-73250	COVER	1							
18	3	24321-000450	O-RING 1A G-45.0	1							
19	3	26450-060122	BOLT, M6X12	4							
20	2	172179-73130	ROTARY SET	1							
21	2	172179-73190	BUSHING	1							
22	2	172456-73280	COVER ASSY	1							
23	3	172179-73270	BEARING	1							
24	3	172179-73280	GASKET	1							
25	3	172456-73290	CONTROL PLATE	1							
26	3	172650-73450	BOLT,8X55HEX SOCKET	2							
27	3	172456-73600	ORIFICE	2							
28	3	172456-73610	FILTER	1							
29	3	172164-73670	CIRCLIP,	1							
30	3	22312-060120	PARALLEL PIN, M6X12	2							
31	3	26450-080202	BOLT M 8X 20	2							
32	3	26450-080402	BOLT 8X40	1							
33	2	172164-73470	VALVE ASSY, RELIEF	1							
36	3	172164-73380	SPRING, RETERN	1							
37	3	172164-73390	NUT	1							
38	3	172164-73510	SEAT, SPRING	1							
39	3	172141-74430	O-RING	1							
40	2	172456-73650	SPRING ASSY, CONTROL	1							
41	3	172179-73400	STAY,SPRING	1							
42	3	172179-73430	ADJUST SCREW	1							
43	3	172179-73460	NUT M 6	1							
44	3	172456-73660	COVER	1							
45	3	172456-73670	SPRING	1							
46	3	172456-73680	SPRING	1							
47	3	172456-73690	SPRING PLATE A	1							
48	3	172456-73700	SPRING PLATE B	1							
49	3	172456-73710	SHIM	1							
50	3	172456-73720	SHIM	1							
51	3	172456-73730	SHIM	1							
52	3	24311-000090	O-RING 1A P-9.0	1							

N:Old  $\frac{Yes}{No}$  New, Q:Old  $\frac{No}{Yes}$  New, R:Old  $\frac{Yes}{Yes}$  New, S:Old  $\frac{No}{No}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
++ CONTINUE ++  
(C)Copyrights YANMAR CO.,LTD.

Fig.41. HYD.OIL PUMP & JOINT(TO M36239)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



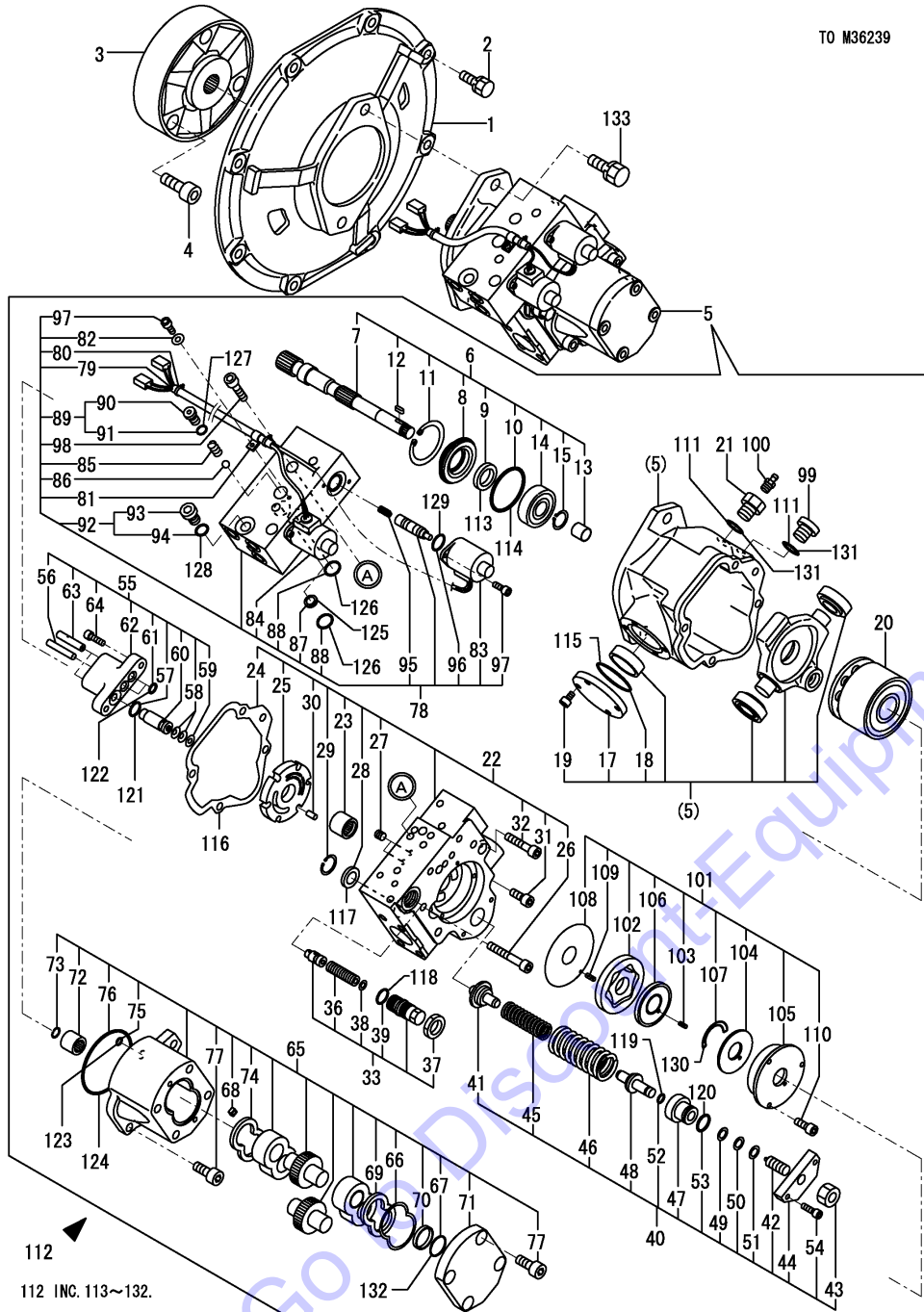
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
53	3	24311-000180	O-RING 1A P-18.0	1							
54	3	26450-060202	BOLT M 6X 20	1							
55	2	172456-73740	PISTON ASSY, CONTROL	1							
56	3	172168-71500	PARALLEL PIN	1							
57	3	172168-71510	O-RING	1							
58	3	172168-71520	CONICAL SPRING	2							
59	3	172168-71530	RETAINER	1							
60	3	172179-73510	PISTON	1							
61	3	172179-73540	O-RING	2							
62	3	172456-73750	CYLINDER	1							
63	3	172456-73770	PISTON, HYDRAULIC	2							
64	3	26450-060202	BOLT M 6X 20	2							
65	2	172456-73790	PUMP ASSY, GEAR	1							
66	3	172141-71520	RING	1							
67	3	172141-71550	O-RING	2							
68	3	172141-71560	RING	2							
69	3	172141-73220	PLATE	1							
70	3	172141-73230	GUIDE	2							
71	3	172456-73800	COVER	1							
72	3	172456-73810	JOINT	1							
73	3	172456-73840	CIRCLIP,	1							
74	3	172456-73850	BLADE	1							
75	3	24315-000060	O-RING 1B P-6.0	1							
76	3	24321-000900	O-RING 1A G-90.0	1							
77	3	26450-100252	BOLT M10X 25	6							
78	2	172456-73860	VALVE ASSY	1							
79	3	172164-73030	COVER, SUPPORT	1							
80	3	172164-73040	BAND, BINDER	2							
81	3	172164-73490	CLUMP	1							
82	3	172164-73500	WASHER	1							
83	3	172456-73580	SOLENOID (A	1							
83-1	3	172989-73160	SOLENOID (A	1							R
(A=MXXXXX)											
84	3	172456-73590	SOLENOID (B	1							
84-1	3	172989-73150	SOLENOID (B	1							R
(A=MXXXXX)											
85	3	172456-73880	SPRING	1							
86	3	172456-73900	BALL, STEEL	1							
87	3	172456-73930	ELEMENT,FILTER	1							
88	3	172456-73960	O-RING	2							
89	3	172142-74590	PLUG	1							
90	4	172142-74650	PLUG 1/8	1							
91	4	24315-000080	O-RING 1B P-8.0	1							
92	3	172142-74600	PLUG	1							
93	4	172142-74660	PLUG 1/4	1							
94	4	24315-000110	O-RING 1B P-11.0	1							
95	3	172165-74740	SPRING	2							
96	3	24311-000160	O-RING 1A P-16.0	2							
97	3	26450-040102	BOLT 4* 10	5							
98	3	26450-080302	BOLT, M8X30	2							
99	2	172142-74670	PLUG, 3/8	1							

N:Old  $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$  New, Q:Old  $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$  New, R:Old  $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$  New, S:Old  $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
++ CONTINUE ++  
(C)Copyrights YANMAR CO.,LTD.

Fig.41. HYD.OIL PUMP & JOINT(TO M36239)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



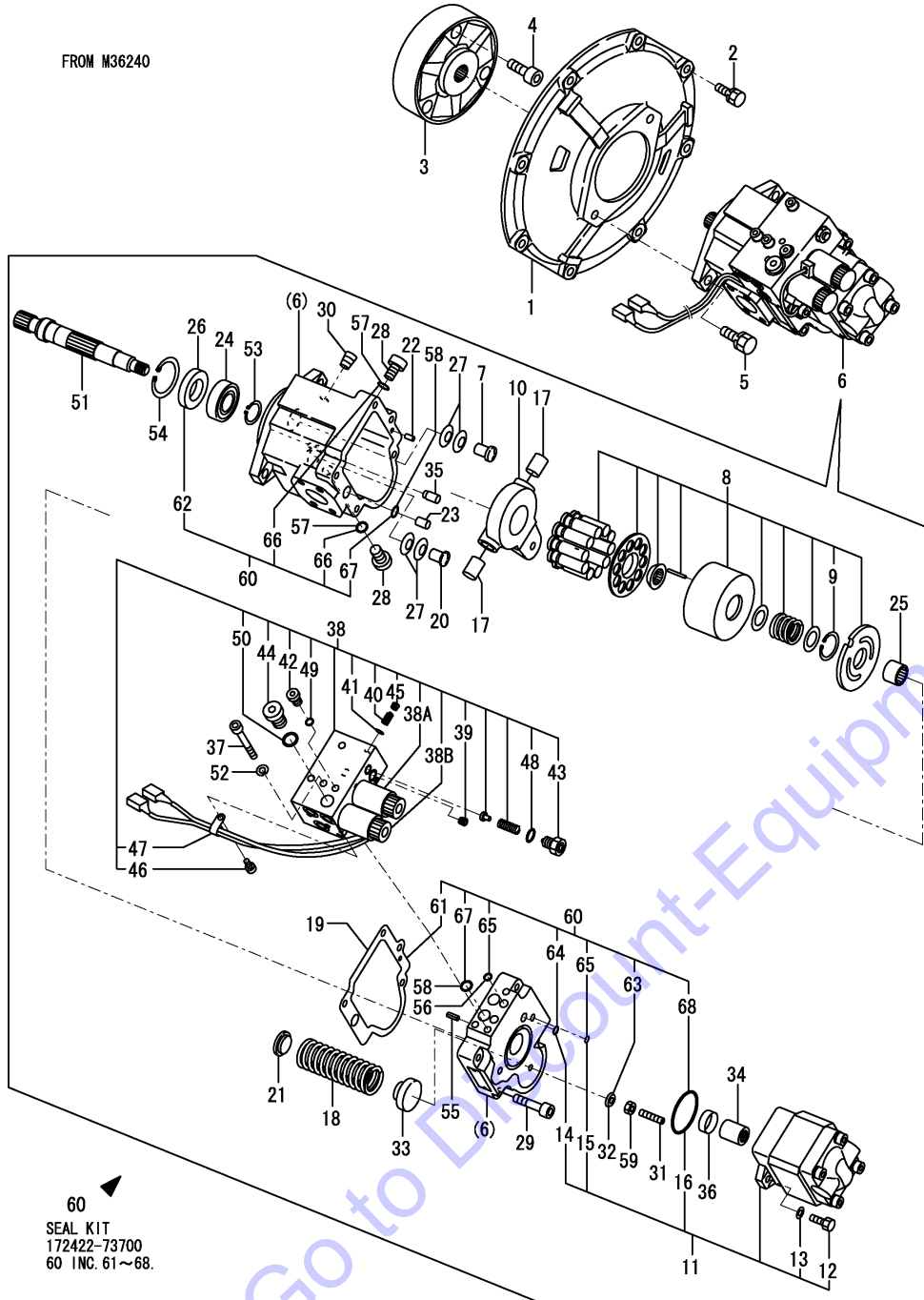
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
100	2	172456-75430	PLUG	1							
101	2	172456-75440	PUMP ASSY, TROCHOID	1							
102	3	172456-75450	GEAR	1							
103	3	172456-75460	PIN, SPRING	1							
104	3	172456-75480	BLADE	1							
105	3	172187-75860	CASE	1							
106	3	172187-75870	PLATE A ,SIDE	1							
107	3	172187-75880	O-RING	1							
108	3	172187-75910	PLATE B ,SIDE	1							
109	3	172187-75920	PIN,SPRING	1							
110	3	26450-050122	BOLT, M5X12	3							
111	2	24315-000140	O-RING 1B P-14.0	2							
112	1	172456-73070	SEAL SET	1							
113	2	172456-73140	SEAL, OIL	1							
114	2	172456-73150	O-RING	1							
115	2	24321-000450	O-RING 1A G-45.0	1							
116	2	172179-73280	GASKET	1							
117	2	172456-73610	FILTER	1							
118	2	172141-74430	O-RING	1							
119	2	24311-000090	O-RING 1A P-9.0	1							
120	2	24311-000180	O-RING 1A P-18.0	1							
121	2	172168-71510	O-RING	1							
122	2	172179-73540	O-RING	2							
123	2	24315-000060	O-RING 1B P-6.0	1							
124	2	24321-000900	O-RING 1A G-90.0	1							
125	2	172456-73930	ELEMENT,FILTER	1							
126	2	172456-73960	O-RING	2							
127	2	24315-000080	O-RING 1B P-8.0	1							
128	2	24315-000110	O-RING 1B P-11.0	1							
129	2	24311-000160	O-RING 1A P-16.0	2							
130	2	172187-75880	O-RING	1							
131	2	24315-000140	O-RING 1B P-14.0	2							
132	2	172141-71550	O-RING	2							
133	1	26013-120302	BOLT WWASHER M12X30	2							

Fig.83. (41A)HYD.OIL PUMP & JOINT(FROM M36240)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

FROM M36240



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101	COVER, FLYWHEEL	1							
2	1	26013-100302	BOLT M10X 30	8							
3	1	172165-71200	COUPLING	1							
4	1	26450-120402	BOLT M12X 40	3							
5	1	26013-120302	BOLT W/WASHER M12X30	2							
6	1	172A23-73100	PUMP ASSY	1							
7	2	172450-73110	PIN,STOPPER	1							
8	2	172A23-73110	BARREL KIT	1							
9	3	172448-73190	SNAP RING	1							
10	2	172422-73140	PLATE	1							
11	2	172A23-73140	PUMP ASSY	1							
12	3	172450-73120	BOLT	2							
13	3	172450-73130	WASHER	2							
14	3	24315-000070	O-RING 1B P-7.0	1							
15	3	24315-000080	O-RING 1B P-8.0	1							
16	3	24325-000550	O-RING 1B G-55.0	1							
17	2	172422-73160	PIN	2							
18	2	172A23-73160	SPRING,T1	1							
19	2	172422-73170	GASKET	1							
20	2	172448-73180	PIN A,STOPPER	1							
21	2	172422-73200	HOLDER	1							
22	2	172422-73220	PIN	1							
23	2	172422-73280	PIN	1							
24	2	172422-73290	BEARING	1							
25	2	172422-73500	BEARING	1							
26	2	172422-73510	OILSEAL	1							
27	2	172422-73520	WASHER	4							
28	2	172422-73530	PLUG	2							
29	2	172422-73540	BOLT	5							
30	2	172422-73550	PLUG	5							
31	2	172422-73560	SCREW	1							
32	2	172422-73570	WASHER	1							
33	2	172458-73570	GUIDE,SPRING	1							
34	2	172422-73580	COUPLING	1							
35	2	172458-73580	ROD G	1							
36	2	172422-73590	COLLER	1							
37	2	172422-73610	BOLT	3							
38	2	172458-73620	VALVE BLOCK ASSY	1							
38A	3	172458-73680	SC VALVE	1							W
(A=FROM 1ST)											
38B	3	172458-73690	SC VALVE	1							W
(A=FROM 1ST)											
39	3	172422-73550	PLUG	7							
40	3	172422-73620	SPRING	1							
41	3	172422-73630	STRAINER	1							
42	3	172458-73630	PLUG	1							
43	3	172422-73640	AJUSTER KIT	1							
44	3	172458-73640	PLUG	1							
45	3	172422-73650	PLUG	2							
46	3	172422-73660	BOLT	1							
47	3	172422-73670	ROCK PLATE	1							

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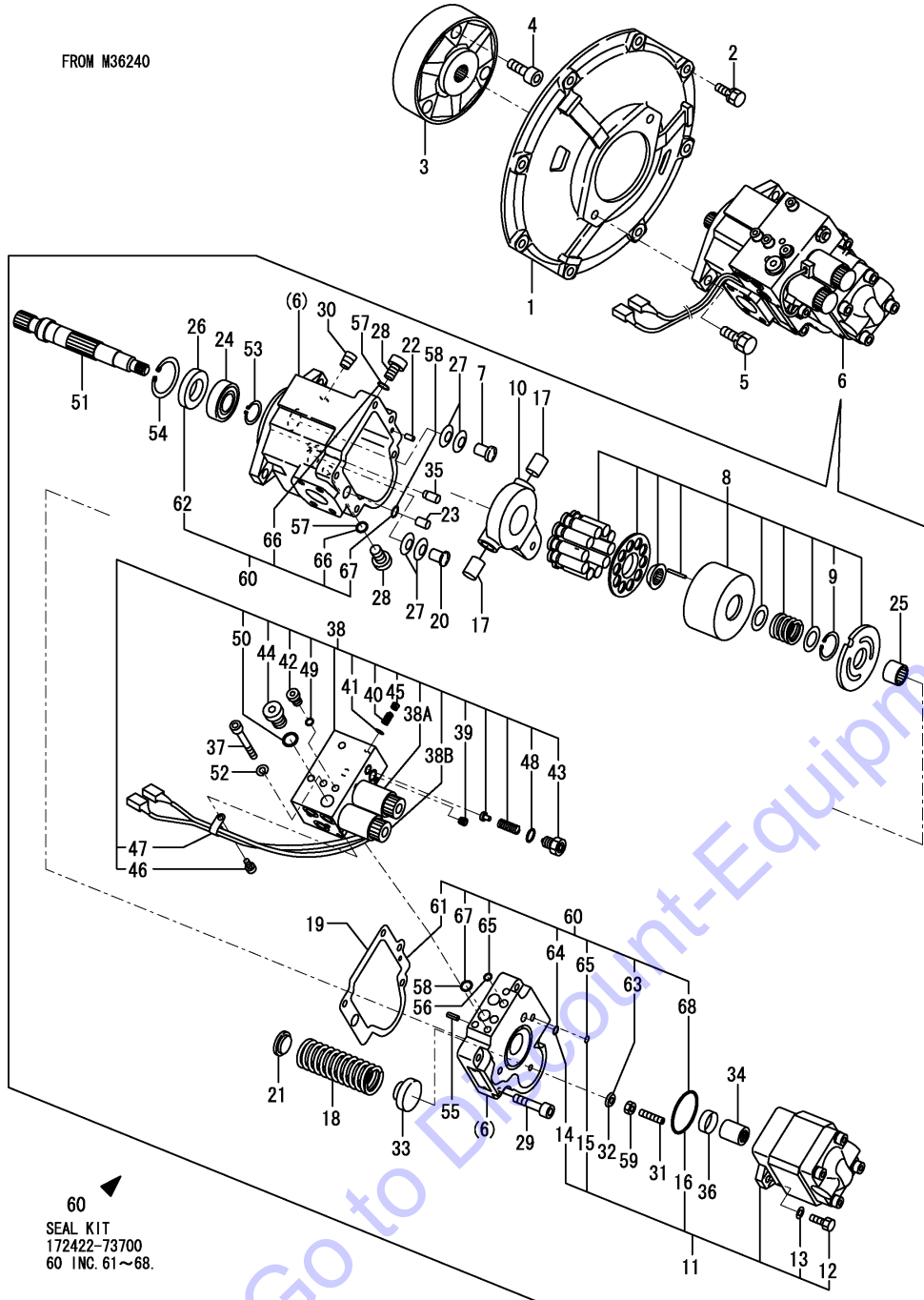


Fig.83. (41A)HYD.OIL PUMP & JOINT(FROM M36240)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

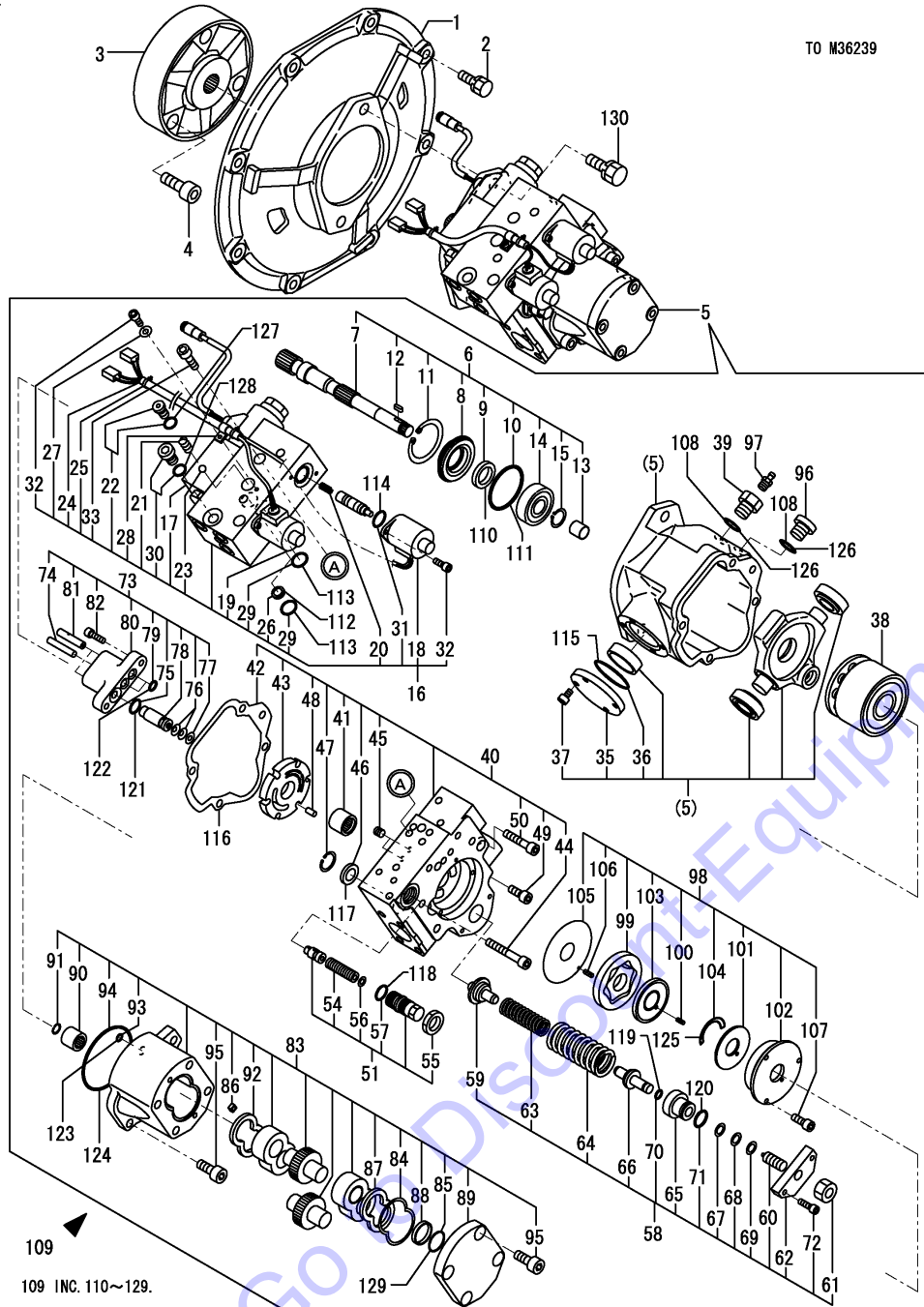
FROM M36240



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
48	3	24311-000100	O-RING 1A P-10.0	1							
49	3	24315-000080	O-RING 1B P-8.0	1							
50	3	24315-000140	O-RING 1B P-14.0	1							
51	2	172458-73660	SHAFT	1							
52	2	22212-080000	WASHER 8	3							
53	2	22242-000250	CIRCLIP 25S	1							
54	2	22252-000520	CIRCLIP 52	1							
55	2	22351-060016	SPRING PIN 6X16	1							
56	2	24315-000080	O-RING 1B P-8.0	1							
57	2	24315-000110	O-RING 1B P-11.0	2							
58	2	24315-000120	O-RING 1B P-12.0	3							
59	2	26711-080002	NUT M 8	1							
60	1	172422-73700	SEAL KIT,PUMP	1							
61	2	172422-73170	GASKET	1							
62	2	172422-73510	OILSEAL	1							
63	2	172422-73570	WASHER	1							
64	2	24315-000070	O-RING 1B P-7.0	1							
65	2	24315-000080	O-RING 1B P-8.0	2							
66	2	24315-000110	O-RING 1B P-11.0	2							
67	2	24315-000120	O-RING 1B P-12.0	3							
68	2	24325-000550	O-RING 1B G-55.0	1							

Fig.42. HYD.OIL PUMP & JOINT(QUICK COUPLER SPEC.)(TO M36239)

TO M36239



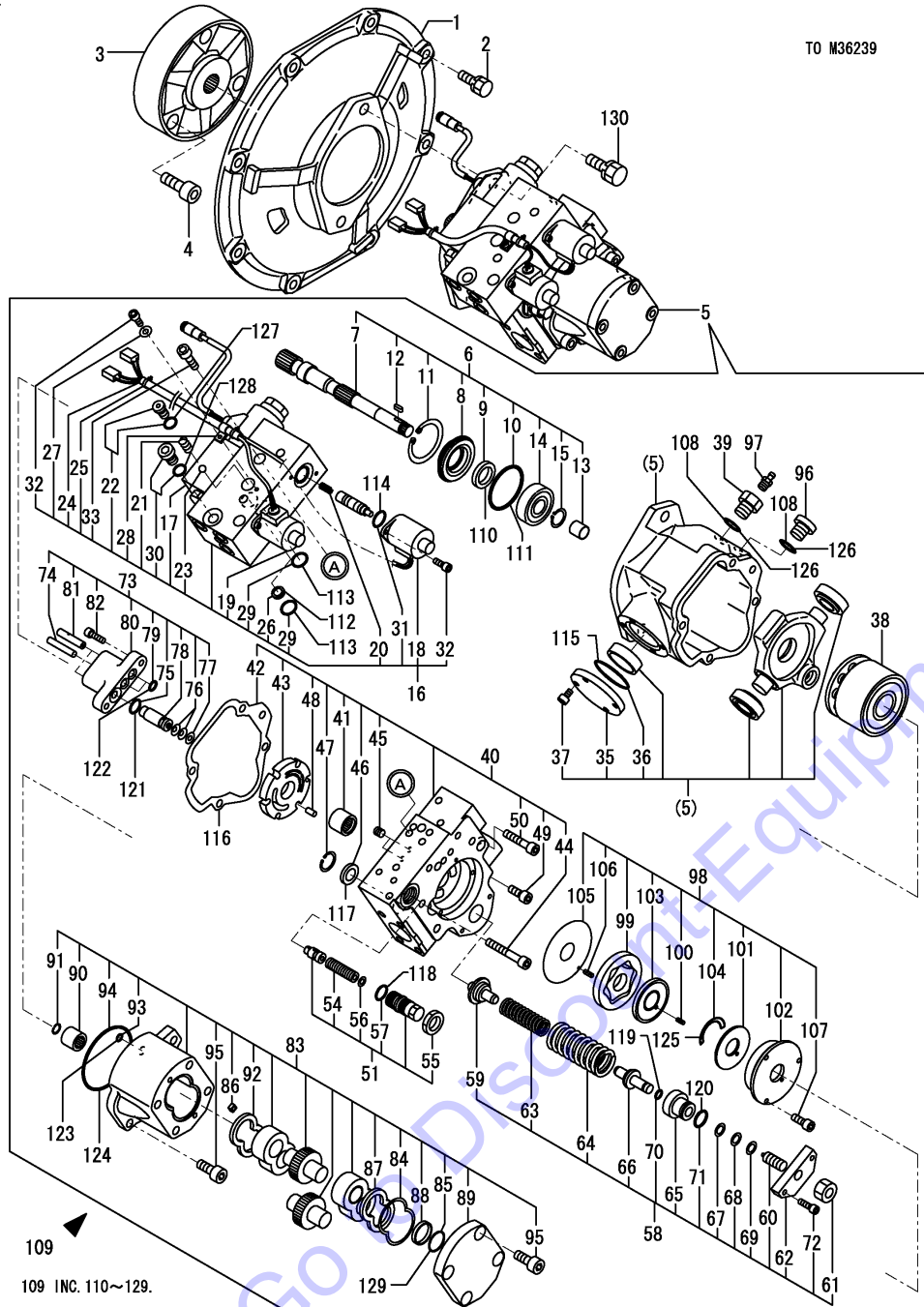
(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-3	COVER, FLYWHEEL	1	1	1					
1-1	1	172168-71101-4	COVER, FLYWHEEL	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	1	26013-100302	BOLT M10X 30	8	8	8					
3	1	172165-71200	COUPLING	1	1	1					
4	1	26450-120402	BOLT M12X 40	3	3	3					
5	1	172956-73100	PUMP Q ASSY	1	1	1					
6	2	172456-73110	SHAFT ASSY	1	1	1					
7	3	172456-73120	SHAFT	1	1	1					
8	3	172456-73130	CASE, SEAL	1	1	1					
9	3	172456-73140	SEAL, OIL	1	1	1					
10	3	172456-73150	O-RING	1	1	1					
11	3	172456-73160	CIRCLIP,	1	1	1					
12	3	172456-73170	KEY	1	1	1					
13	3	172456-73180	PIN BUSH	1	1	1					
14	3	172179-73220	BEARING,	1	1	1					
15	3	22242-000200	CIRCLIP 20	1	1	1					
16	2	172956-73110	VALVE ASSY	1	1	1					
17	3	172956-73121	MAGNETIC VALVE	1	1	1					
18	3	172456-73580	SOLENOID (A	1	1	1					
18-1	3	172989-73160	SOLENOID (A	1	1	1					R
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
19	3	172456-73590	SOLENOID (B	1	1	1					
19-1	3	172989-73150	SOLENOID (B	1	1	1					R
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
20	3	172456-73870	SPRING	2	2	2					
21	3	172456-73880	SPRING	1	1	1					
22	3	172456-73890	PLUG ASSY	1	1	1					
23	3	172456-73900	BALL, STEEL	1	1	1					
24	3	172456-73910	COVER	1	1	1					
25	3	172456-73920	BAND	2	2	2					
26	3	172456-73930	ELEMENT, FILTER	1	1	1					
27	3	172456-73940	WASHER	1	1	1					
28	3	172456-73950	CLAMP	1	1	1					
29	3	172456-73960	O-RING	2	2	2					
30	3	172456-73970	PLUG ASSY	1	1	1					
31	3	24311-000160	O-RING 1A P-16.0	2	2	2					
32	3	26450-040102	BOLT 4* 10	5	5	5					
33	3	26450-080302	BOLT, M8X30	2	2	2					
35	3	172179-73250	COVER	1	1	1					
36	3	24321-000450	O-RING 1A G-45.0	1	1	1					
37	3	26450-060122	BOLT, M6X12	4	4	4					
38	2	172179-73130	ROTARY SET	1	1	1					
39	2	172179-73190	BUSHING	1	1	1					
40	2	172456-73280	COVER ASSY	1	1	1					
41	3	172179-73270	BEARING	1	1	1					
42	3	172179-73280	GASKET	1	1	1					
43	3	172456-73290	CONTROL PLATE	1	1	1					
44	3	172650-73450	BOLT, 8X55HEX SOCKET	2	2	2					
45	3	172456-73600	ORIFICE	2	2	2					
46	3	172456-73610	FILTER	1	1	1					

N:Old  $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$  New, Q:Old  $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$  New, R:Old  $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$  New, S:Old  $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
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Fig.42. HYD.OIL PUMP & JOINT(QUIK COUPLER SPEC.)(TO M36239)

TO M36239



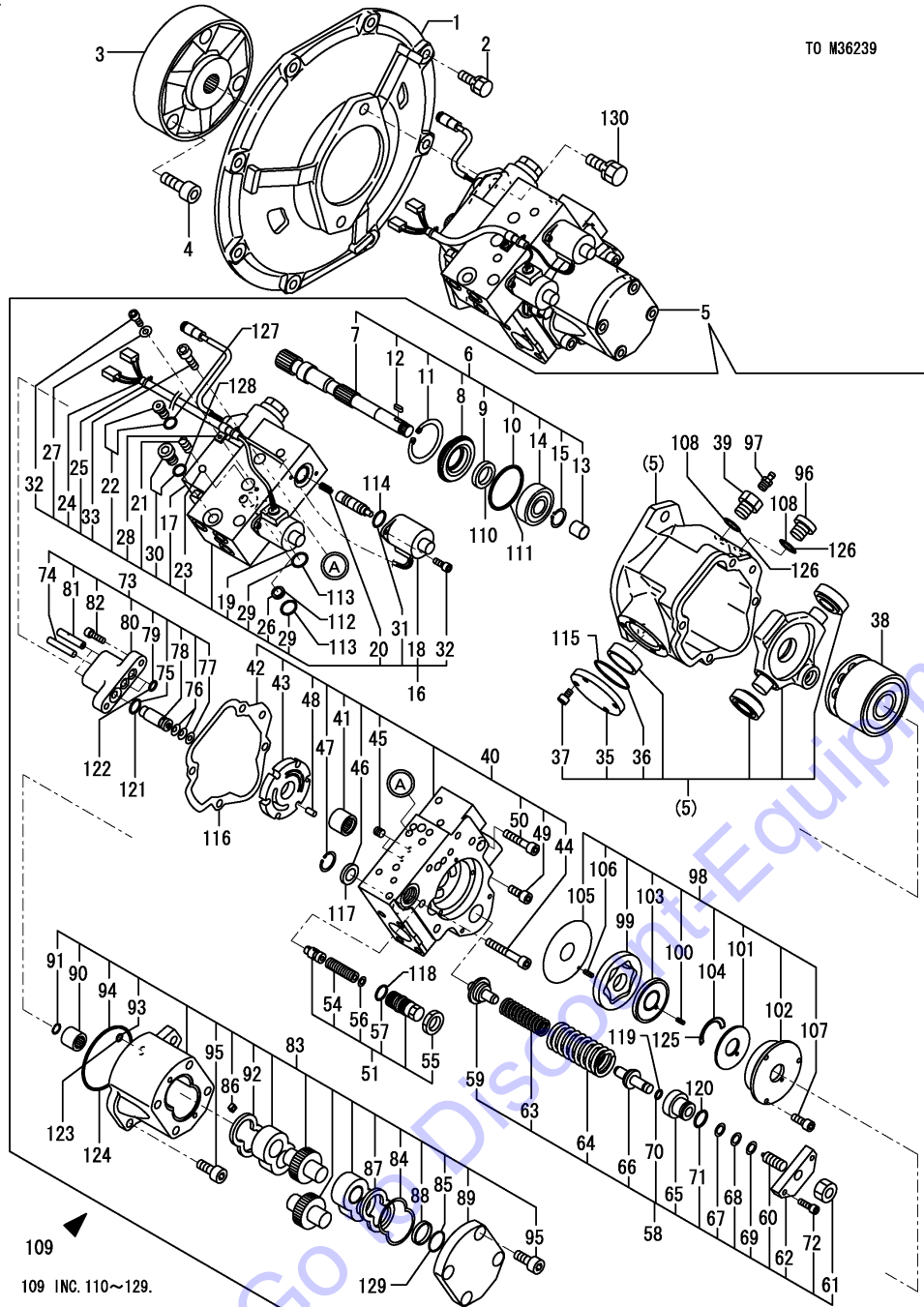
(A)=VIO20-3(US) (D)=  
(B)=VIO20-3(AS) (E)=  
(C)=VIO20-3(NZ) (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
47	3	172164-73670	CIRCLIP,	1	1	1					
48	3	22312-060120	PARALLEL PIN, M6X12	2	2	2					
49	3	26450-080202	BOLT M 8X 20	2	2	2					
50	3	26450-080402	BOLT 8X40	1	1	1					
51	2	172164-73470	VALVE ASSY, RELIEF	1	1	1					
54	3	172164-73380	SPRING, RETERN	1	1	1					
55	3	172164-73390	NUT	1	1	1					
56	3	172164-73510	SEAT, SPRING	1	1	1					
57	3	172141-74430	O-RING	1	1	1					
58	2	172456-73650	SPRING ASSY, CONTROL	1	1	1					
59	3	172179-73400	STAY,SPRING	1	1	1					
60	3	172179-73430	ADJUST SCREW	1	1	1					
61	3	172179-73460	NUT M 6	1	1	1					
62	3	172456-73660	COVER	1	1	1					
63	3	172456-73670	SPRING	1	1	1					
64	3	172456-73680	SPRING	1	1	1					
65	3	172456-73690	SPRING PLATE A	1	1	1					
66	3	172456-73700	SPRING PLATE B	1	1	1					
67	3	172456-73710	SHIM	1	1	1					
68	3	172456-73720	SHIM	1	1	1					
69	3	172456-73730	SHIM	1	1	1					
70	3	24311-000090	O-RING 1A P-9.0	1	1	1					
71	3	24311-000180	O-RING 1A P-18.0	1	1	1					
72	3	26450-060202	BOLT M 6X 20	1	1	1					
73	2	172456-73740	PISTON ASSY, CONTROL	1	1	1					
74	3	172168-71500	PARALLEL PIN	1	1	1					
75	3	172168-71510	O-RING	1	1	1					
76	3	172168-71520	CONICAL SPRING	2	2	2					
77	3	172168-71530	RETAINER	1	1	1					
78	3	172179-73510	PISTON	1	1	1					
79	3	172179-73540	O-RING	2	2	2					
80	3	172456-73750	CYLINDER	1	1	1					
81	3	172456-73770	PISTON, HYDRAULIC	2	2	2					
82	3	26450-060202	BOLT M 6X 20	2	2	2					
83	2	172456-73790	PUMP ASSY, GEAR	1	1	1					
84	3	172141-71520	RING	1	1	1					
85	3	172141-71550	O-RING	2	2	2					
86	3	172141-71560	RING	2	2	2					
87	3	172141-73220	PLATE	1	1	1					
88	3	172141-73230	GUIDE	2	2	2					
89	3	172456-73800	COVER	1	1	1					
90	3	172456-73810	JOINT	1	1	1					
91	3	172456-73840	CIRCLIP,	1	1	1					
92	3	172456-73850	BLADE	1	1	1					
93	3	24315-000060	O-RING 1B P-6.0	1	1	1					
94	3	24321-000900	O-RING 1A G-90.0	1	1	1					
95	3	26450-100252	BOLT M10X 25	6	6	6					
96	2	172142-74670	PLUG, 3/8	1	1	1					
97	2	172456-75430	PLUG	1	1	1					
98	2	172456-75440	PUMP ASSY, TROCHOID	1	1	1					
99	3	172456-75450	GEAR	1	1	1					

N:Old  $\frac{Yes}{No}$  New, Q:Old  $\frac{No}{Yes}$  New, R:Old  $\frac{Yes}{Yes}$  New, S:Old  $\frac{No}{No}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
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Fig.42. HYD.OIL PUMP & JOINT(QUICK COUPLER SPEC.)(TO M36239)

TO M36239

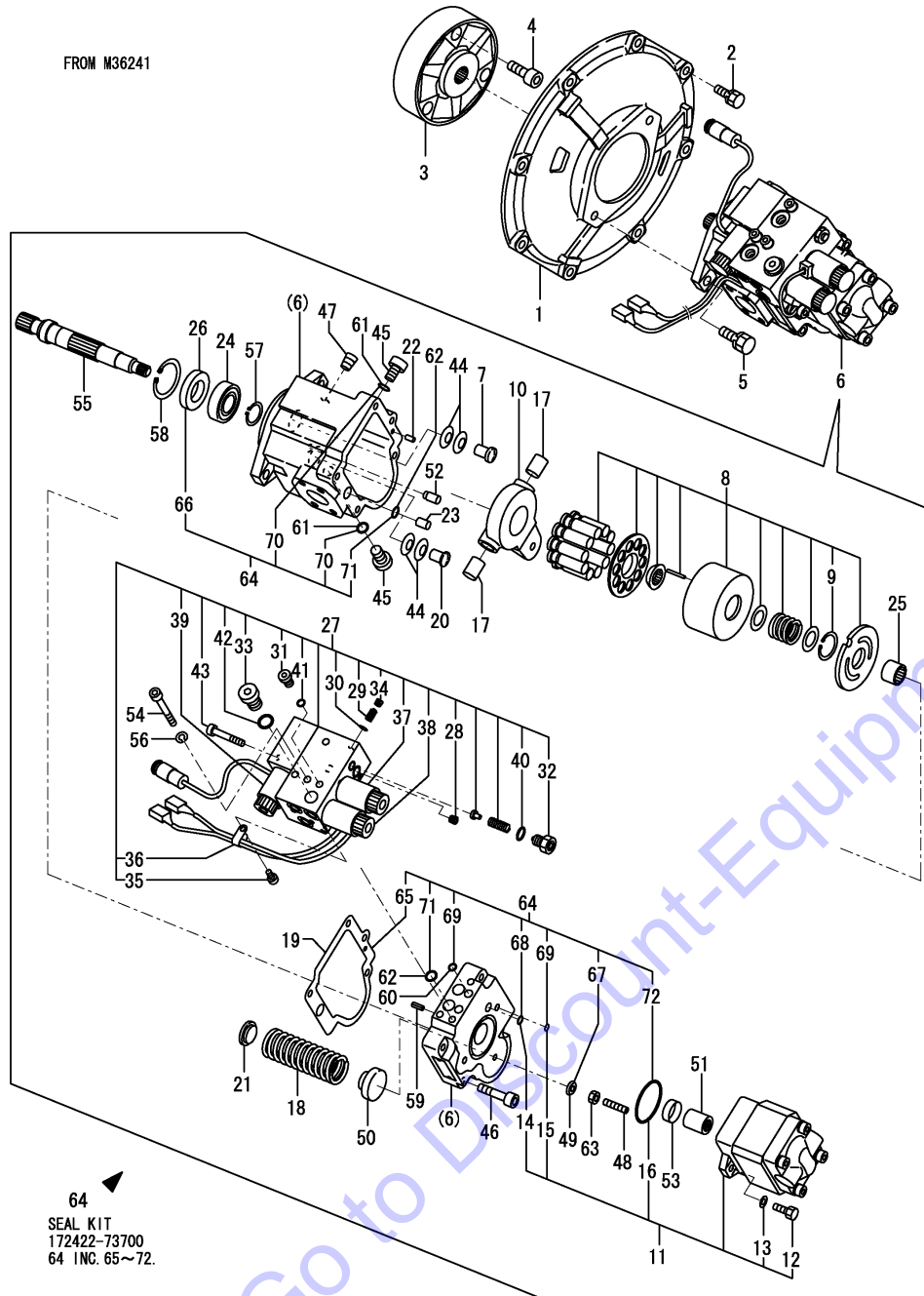


(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
100	3	172456-75460	PIN, SPRING	1	1	1					
101	3	172456-75480	BLADE	1	1	1					
102	3	172187-75860	CASE	1	1	1					
103	3	172187-75870	PLATE A, SIDE	1	1	1					
104	3	172187-75880	O-RING	1	1	1					
105	3	172187-75910	PLATE B, SIDE	1	1	1					
106	3	172187-75920	PIN, SPRING	1	1	1					
107	3	26450-050122	BOLT, M5X12	3	3	3					
108	2	24315-000140	O-RING 1B P-14.0	2	2	2					
109	1	172456-73070	SEAL SET	1	1	1					
110	2	172456-73140	SEAL, OIL	1	1	1					
111	2	172456-73150	O-RING	1	1	1					
112	2	172456-73930	ELEMENT, FILTER	1	1	1					
113	2	172456-73960	O-RING	2	2	2					
114	2	24311-000160	O-RING 1A P-16.0	2	2	2					
115	2	24321-000450	O-RING 1A G-45.0	1	1	1					
116	2	172179-73280	GASKET	1	1	1					
117	2	172456-73610	FILTER	1	1	1					
118	2	172141-74430	O-RING	1	1	1					
119	2	24311-000090	O-RING 1A P-9.0	1	1	1					
120	2	24311-000180	O-RING 1A P-18.0	1	1	1					
121	2	172168-71510	O-RING	1	1	1					
122	2	172179-73540	O-RING	2	2	2					
123	2	24315-000060	O-RING 1B P-6.0	1	1	1					
124	2	24321-000900	O-RING 1A G-90.0	1	1	1					
125	2	172187-75880	O-RING	1	1	1					
126	2	24315-000140	O-RING 1B P-14.0	2	2	2					
127	2	24315-000080	O-RING 1B P-8.0	1	1	1					
128	2	24315-000110	O-RING 1B P-11.0	1	1	1					
129	2	172141-71550	O-RING	2	2	2					
130	1	26013-120302	BOLT W/WASHER M12X30	2	2	2					

109  
 109 INC. 110~129.

Fig.84. (42A)HYD.OIL PUMP & JOINTQUICK COUPLER SPEC.)(FROM M36241)



OCS10-G44703 84. (42A)HYD.OIL PUMP & JOINTQUICK COUPLER SPEC.)(FROM M36241)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101	COVER, FLYWHEEL	1	1	1					
2	1	26013-100302	BOLT M10X 30	8	8	8					
3	1	172165-71200	COUPLING	1	1	1					
4	1	26450-120402	BOLT M12X 40	3	3	3					
5	1	26013-120302	BOLT W/WASHER M12X30	2	2	2					
6	1	172A30-73100	PUMP Q ASSY	1	1	1					
7	2	172450-73110	PIN,STOPPER	1	1	1					
8	2	172A23-73110	BARREL KIT	1	1	1					
9	3	172448-73190	SNAP RING	1	1	1					
10	2	172422-73140	PLATE	1	1	1					
11	2	172A23-73140	PUMP ASSY	1	1	1					
12	3	172450-73120	BOLT	2	2	2					
13	3	172450-73130	WASHER	2	2	2					
14	3	24315-000070	O-RING 1B P-7.0	1	1	1					
15	3	24315-000080	O-RING 1B P-8.0	1	1	1					
16	3	24325-000550	O-RING 1B G-55.0	1	1	1					
17	2	172422-73160	PIN	2	2	2					
18	2	172A23-73160	SPRING,T1	1	1	1					
19	2	172422-73170	GASKET	1	1	1					
20	2	172448-73180	PIN A,STOPPER	1	1	1					
21	2	172422-73200	HOLDER	1	1	1					
22	2	172422-73220	PIN	1	1	1					
23	2	172422-73280	PIN	1	1	1					
24	2	172422-73290	BEARING	1	1	1					
25	2	172422-73500	BEARING	1	1	1					
26	2	172422-73510	OILSEAL	1	1	1					
27	2	172958-73510	BLOCK ASSY, VALVE	1	1	1					
28	3	172422-73550	PLUG	8	8	8					
29	3	172422-73620	SPRING	1	1	1					
30	3	172422-73630	STRAINER	1	1	1					
31	3	172458-73630	PLUG	1	1	1					
32	3	172422-73640	AJUSTER KIT	1	1	1					
33	3	172458-73640	PLUG	1	1	1					
34	3	172422-73650	PLUG	2	2	2					
35	3	172422-73660	BOLT	1	1	1					
36	3	172422-73670	ROCK PLATE	1	1	1					
37	3	172458-73680	SC VALVE	1	1	1					
38	3	172458-73690	SC VALVE	1	1	1					
39	3	172458-73790	VALVE,SOLENOID	1	1	1					
40	3	24311-000110	O-RING 1A P-11.0	1	1	1					
41	3	24315-000080	O-RING 1B P-8.0	1	1	1					
42	3	24315-000140	O-RING 1B P-14.0	1	1	1					
43	3	26450-050452	BOLT M 5X 45	4	4	4					
44	2	172422-73520	WASHER	4	4	4					
45	2	172422-73530	PLUG	2	2	2					
46	2	172422-73540	BOLT	5	5	5					
47	2	172422-73550	PLUG	5	5	5					
48	2	172422-73560	SCREW	1	1	1					
49	2	172422-73570	WASHER	1	1	1					
50	2	172458-73570	GUIDE,SPRING	1	1	1					
51	2	172422-73580	COUPLING	1	1	1					

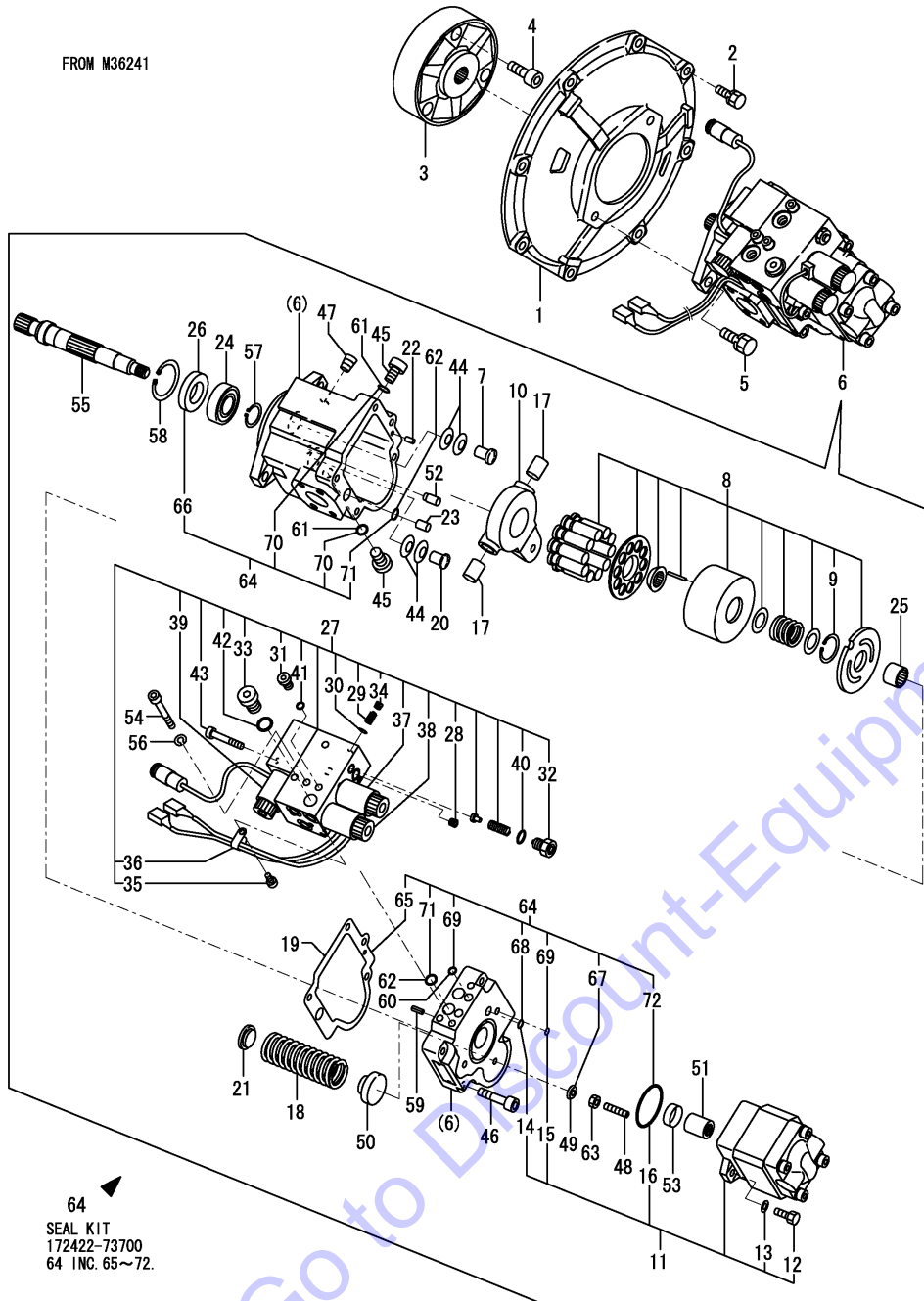
N:Old  $\frac{Yes}{No}$  New, Q:Old  $\frac{No}{Yes}$  New, R:Old  $\frac{Yes}{No}$  New, S:Old  $\frac{No}{Yes}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
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Fig.84. (42A)HYD.OIL PUMP & JOINTQUICK COUPLER SPEC.)(FROM M36241)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

FROM M36241



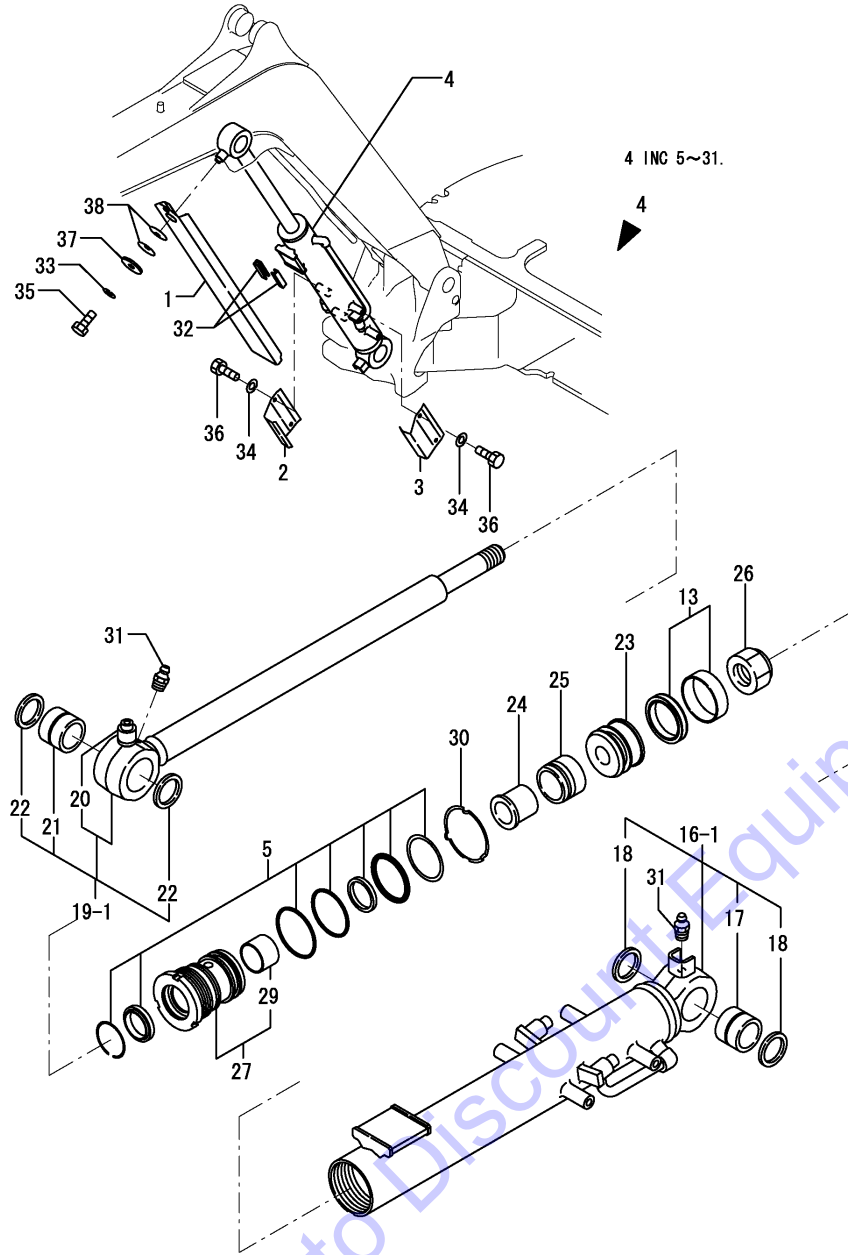
64  
SEAL KIT  
172422-73700  
64 INC. 65~72.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	2	172458-73580	ROD G	1	1	1					
53	2	172422-73590	COLLER	1	1	1					
54	2	172422-73610	BOLT	3	3	3					
55	2	172458-73660	SHAFT	1	1	1					
56	2	22212-080000	WASHER 8	3	3	3					
57	2	22242-000250	CIRCLIP 25S	1	1	1					
58	2	22252-000520	CIRCLIP 52	1	1	1					
59	2	22351-060016	SPRING PIN 6X16	1	1	1					
60	2	24315-000080	O-RING 1B P-8.0	1	1	1					
61	2	24315-000110	O-RING 1B P-11.0	2	2	2					
62	2	24315-000120	O-RING 1B P-12.0	3	3	3					
63	2	26711-080002	NUT M 8	1	1	1					
64	1	172422-73700	SEAL KIT	1	1	1					
65	2	172422-73170	GASKET	1	1	1					
66	2	172422-73510	OILSEAL	1	1	1					
67	2	172422-73570	WASHER	1	1	1					
68	2	24315-000070	O-RING 1B P-7.0	1	1	1					
69	2	24315-000080	O-RING 1B P-8.0	2	2	2					
70	2	24315-000110	O-RING 1B P-11.0	2	2	2					
71	2	24315-000120	O-RING 1B P-12.0	3	3	3					
72	2	24325-000550	O-RING 1B G-55.0	1	1	1					

Fig.43. BOOM CYLINDER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



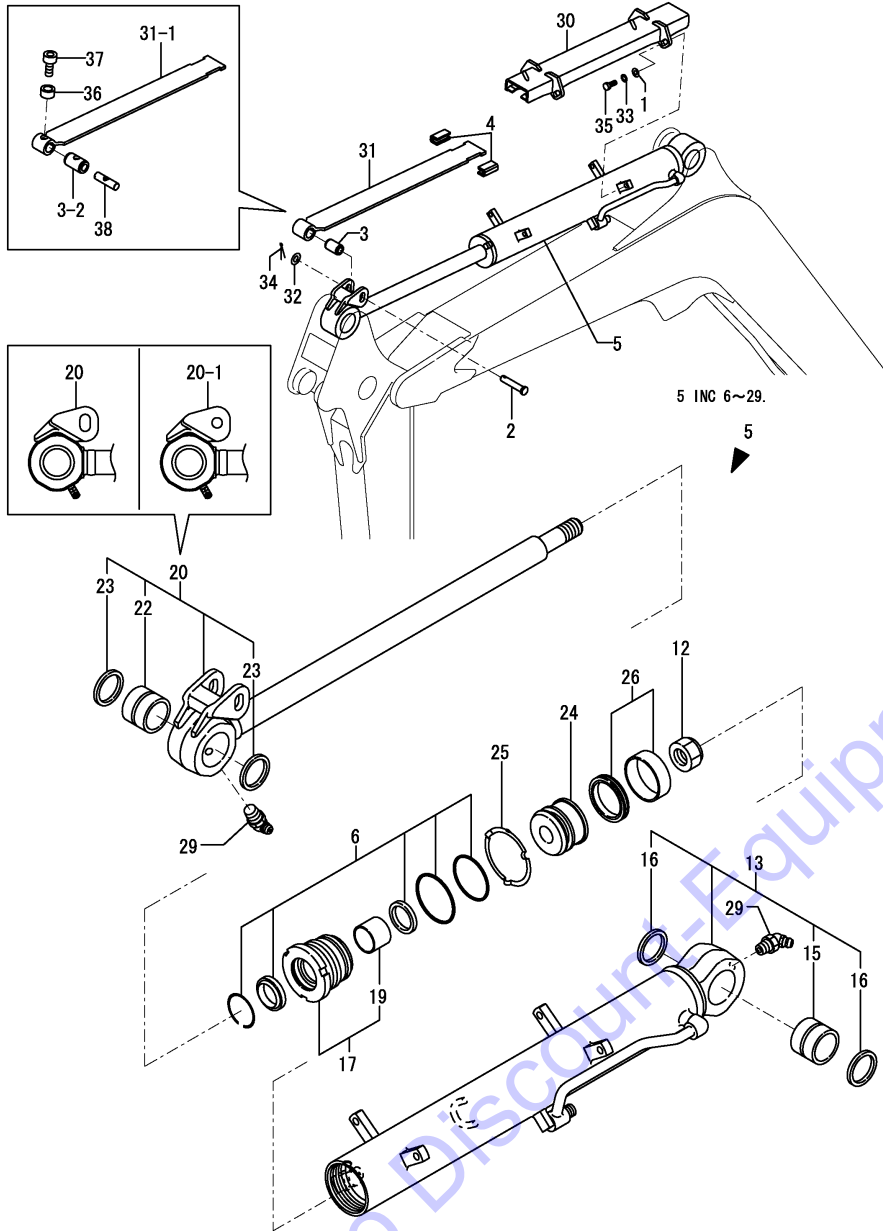
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72200-1	COVER, SLIDE	1	1	1					
1-1	1	172456-72200-2	COVER, SLIDE (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
1-2	1	172456-72200-N	COVER, SLIDE	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
2	1	172457-72230-1	COVER, CYLINDER	1	1	1					
2-1	1	172457-72230-2	COVER,BOOM CYL.R(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
2-2	1	172457-72230-N	COVER,BOOM CYL.R	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
3	1	172457-72240-1	COVER, CYLINDER	1	1	1					
3-1	1	172457-72240-2	COVER,BOOM CYL.L(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
3-2	1	172457-72240-N	COVER,BOOM CYL.L	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
4	1	172469-72400-1	CYLINDER ASSY, BOOM	1	1	1					
4-1	1	172469-72400-2	CYL.ASSY,BOOM C(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
4-2	1	172469-72400-N	CYL.ASSY,BOOM C	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
5	2	172456-72010	SEAL SET 70*40,HEAD	1	1	1					
13	2	172460-72070	SEAL SET, PISTON	1	1	1					
16-1	2	172456-72250-1	TUBE ASSY, BOOM	1	1	1					
16-2	2	172456-72250-3	TUBE ASSY,BOOM K(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
16-3	2	172456-72250-N	TUBE ASSY,BOOM K	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
17	3	172168-72410	BUSH	1	1	1					
18	3	172448-72650	SEAL, DUST	2	2	2					
19-1	2	172456-72260	ROD ASSY,BOOM	1	1	1					
20	4	172168-72390	SEAT,SCREW M10X34.3	1	1	1					1
21	3	172168-72410	BUSH	1	1	1					
22	3	172448-72650	SEAL, DUST	2	2	2					
23	2	172456-72190	PISTON	1	1	1					
24	2	172457-72190	COLLAR 27 38,CUSHON	1	1	1					
25	2	172457-72200	PLUNGER 50,CUSHON	1	1	1					
26	2	172141-72250	NUT	1	1	1					
27	2	172469-72410	HEAD ASSY,70 40	1	1	1					
29	3	24550-040300	BUSH	1	1	1					
30	2	172141-72420	WASHER, LOCK	1	1	1					
31	2	24761-020000	NIPPLE, GREASE	2	2	2					
32	1	172186-72480	GUIDE, SLIDE	2	2	2					
33	1	22217-100000	WASHER, SPRING	1	1	1					
34	1	22217-100000	WASHER, SPRING	4	4	4					
35	1	26116-100162	BOLT	1	1	1					
36	1	26116-100162	BOLT	4	4	4					
37	1	933147-03400	WASHER, BRAKE ARM	1	1	1					
38	1	933168-14170	SPRING	2	2	2					

Remarks  
 (1)WELDED PART

Fig.44. ARM CYLINDER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46040	SEAT, SPRING	4	4	4					
1-1	1	172A79-72570	WASHER	4	4	4					F 1
		(A=M35892) (B=M35892) (C=M35892)									
2	1	172A23-72041	PIN	1	1	1					
2-1	1	172A23-72042	PIN	1	1	1					N
		(A=M/#30829) (B=M/#30829) (C=M/#30829)									
2-2	1	172A23-72042	PIN	1	1	1					Z
		(A=M/#33361) (B=M/#33361) (C=M/#33361)									
3	1	172A23-72050	GROMMET	1	1	1					
3-1	1	172A23-72051	GROMMET	1	1	1					N
		(A=M/#33361) (B=M/#33361) (C=M/#33361)									
3-2	1	172A23-72052	GROMMET	1	1	1					N
		(A=M32769) (B=M32769) (C=M32769)									
4	1	172A23-72081	GUIDE, SLIDE	2	2	2					
5	1	172A23-72301-1	CYLINDER, ARM	1	1	1					
5-1	1	172A23-72302-1	CYLINDER, ARM	1	1	1					S
		(A=M/#33361) (B=M/#33361) (C=M/#33361)									
5-2	1	172A23-72302-3	CYLINDER ,ARM(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
5-3	1	172A23-72302-N	CYLINDER ,ARM	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
6	2	172456-72020	SEAL SET 65*35,HEAD	1	1	1					
12	2	172171-72130	U-NUT M24	1	1	1					
13	2	172A23-72320-1	TUBE, ARM	1	1	1					
13-1	2	172A23-72320-3	TUBE ASSY,ARM	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
13-2	2	172A23-72320-N	TUBE ASSY,ARM	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
15	3	172168-72410	BUSH	1	1	1					
16	3	172448-72650	SEAL, DUST	2	2	2					
17	2	172173-72330	HEAD ASSY, 65 35	1	1	1					
19	3	24550-035300	BUSH	1	1	1					
20	2	172A23-72340	ROD ASSY,ARM	1	1	1					
20-1	2	172A23-72341	ROD ASSY,ARM	1	1	1					S 2
		(A=M/#33361) (B=M/#33361) (C=M/#33361)									
22	3	172168-72410	BUSH	1	1	1					
23	3	172448-72650	SEAL, DUST	2	2	2					
24	2	172173-72352	PISTON 65 24	1	1	1					
25	2	172142-72560	WASHER, LOCK	1	1	1					
26	2	172148-72941	SEAL SET, PISTON	1	1	1					
29	2	24761-040000	NIPPLE, GREASE	2	2	2					
30	1	172A23-72061-1	GUIDE ASSY	1	1	1					
30-1	1	172A23-72061-3	GUIDE ASSY,545(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
30-2	1	172A23-72062-2	GUIDE ASSY,545(2J)	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
30-3	1	172A23-72062-N	GUIDE ASSY,545	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
31	1	172A23-72950-1	PLATE, SLIDE	1	1	1					
31-1	1	172A23-72951-3	PLATE,SLIDE 585 (87)	1	1	1					N
		(A=M33361) (B=M33361) (C=M33361)									

Remarks  
 (1)INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.35-1.

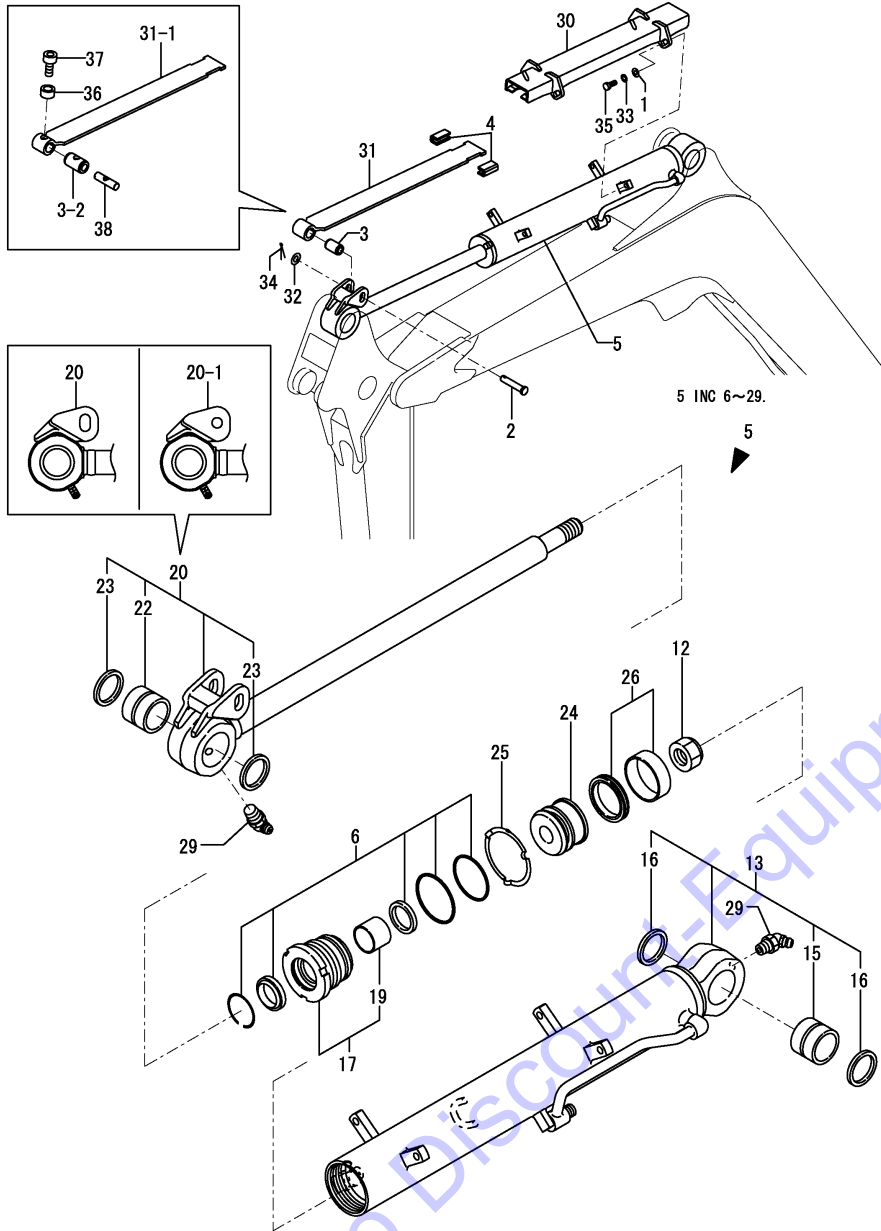
N:Old  $\frac{Yes}{No}$  New, Q:Old  $\frac{No}{Yes}$  New, R:Old  $\frac{Yes}{Yes}$  New, S:Old  $\frac{No}{No}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
 (C)Copyrights YANMAR CO.,LTD.



Fig.44. ARM CYLINDER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



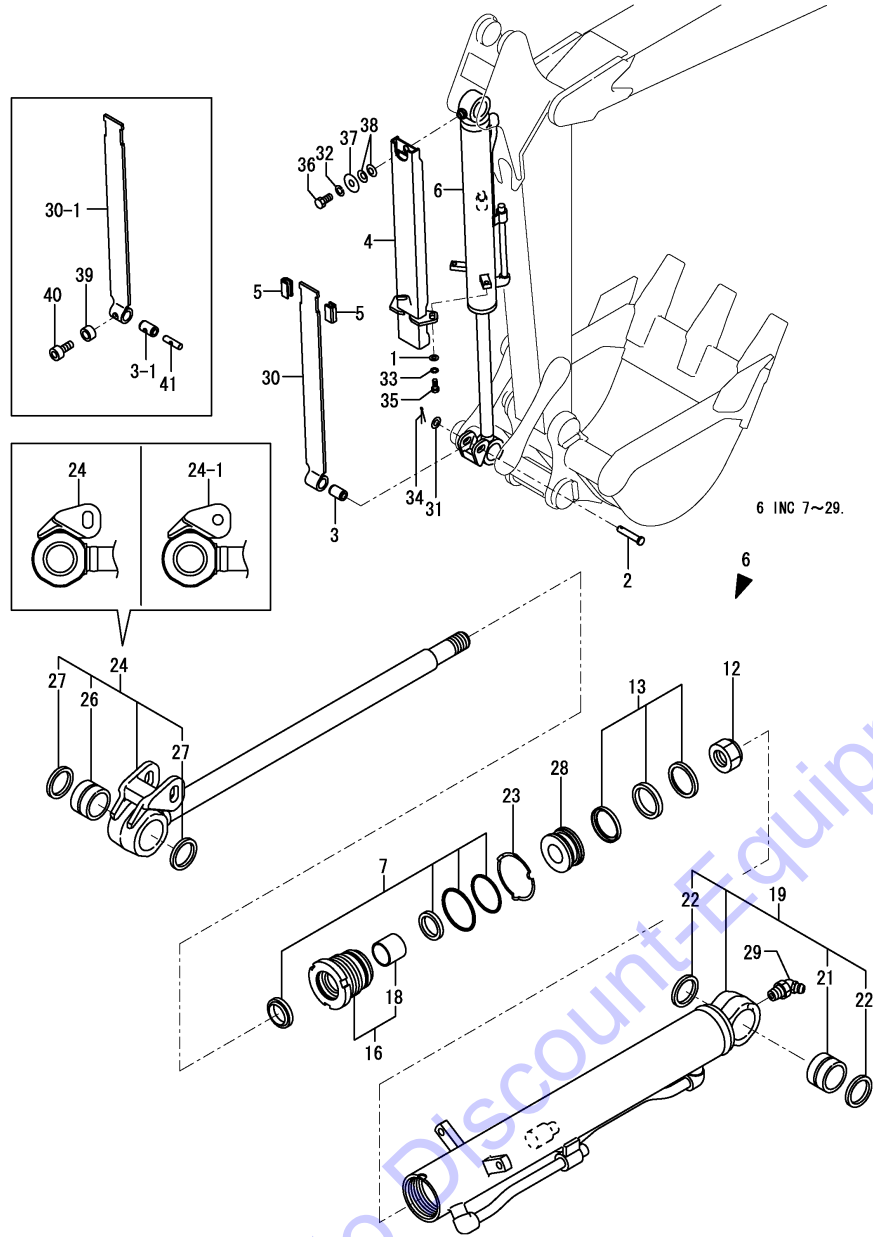
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
31-2	1	172A23-72951-1 (A=M34345) (B=M34345) (C=M34345)	PLATE, SLIDE	1	1	1					S
31-3	1	172A23-72951-N (A=M45501) (B=M45501) (C=M45501)	PLATE, SLIDE	1	1	1					S
32	1	22137-140000	WASHER	1	1	1					
32-1	1	172A23-72020 (A=M/#30829) (B=M/#30829) (C=M/#30829)	WASHER	1	1	1					R
32-2	1	172A23-72020 (A=M/#33361) (B=M/#33361) (C=M/#33361)	WASHER	1	1	1					Z
33	1	22217-100000 (A=M/#31474) (B=M/#31474) (C=M/#31474)	WASHER, SPRING	4	4	4					Z
34	1	22417-500250 (A=M/#33361) (B=M/#33361) (C=M/#33361)	PIN, COTTER	1	1	1					Z
35	1	26076-100202	BOLT	4	4	4					
35-1	1	26076-100252 (A=M35970) (B=M35970) (C=M35970)	BOLT	4	4	4					S
36	1	172A46-72070 (A=M/#33361) (B=M/#33361) (C=M/#33361)	SPACER	1	1	1					W
37	1	26450-060162 (A=M/#33361) (B=M/#33361) (C=M/#33361)	BOLT	1	1	1					W
37-1	1	172A47-72840 (A=M34875) (B=M34875) (C=M34875)	BOLT	1	1	1					N
38	1	172A23-72043 (A=M/#33361) (B=M/#33361) (C=M/#33361)	SHAFT	1	1	1					W

Remarks  
 (1)INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.35-1.

Fig.45. BUCKET CYLINDER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



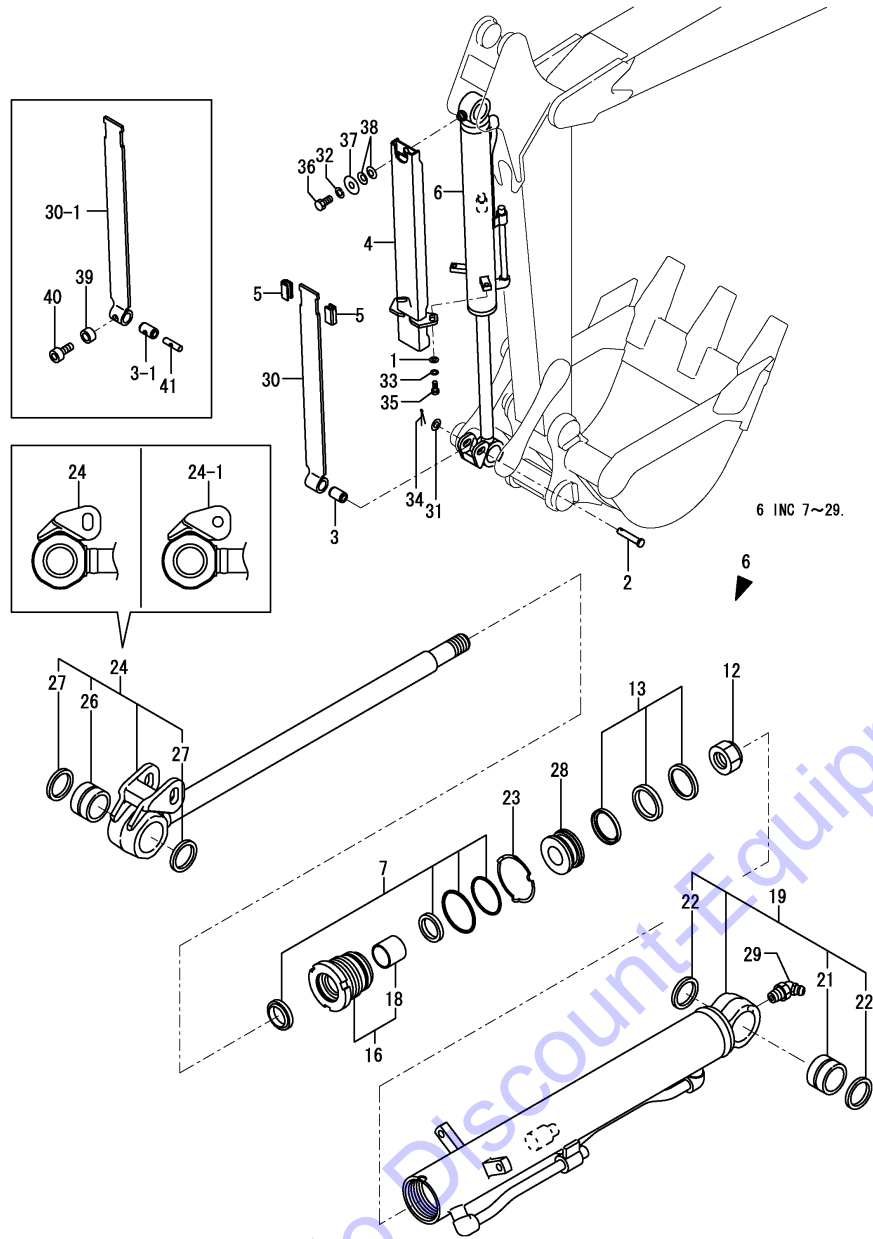
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46040	SEAT, SPRING	2							
1-1	1	172A79-72570	WASHER	2							F 1
		(A=M35892)									
2	1	172A23-72041	PIN	1							
2-1	1	172A23-72042	PIN	1							N
		(A=M#30829)									
2-2	1	172A23-72042	PIN	1							Z
		(A=M#33361)									
3	1	172A23-72050	GROMMET	1							
3-1	1	172A23-72051	GROMMET	1							N
		(A=M#33361)									
3-2	1	172A23-72052	GROMMET	1							N
		(A=M32796)									
4	1	172A23-72901-1	GUIDE ASSY	1							
4-1	1	172A23-72901-3	GUIDE ASSY,595 (2J)	1							S
		(A=M34345)									
4-2	1	172A23-72902-2	GUIDE ASSY,595 (2J)	1							N
		(A=M45001)									
4-3	1	172A23-72902-N	GUIDE ASSY,595	1							S
		(A=M45501)									
5	1	172A23-72081	GUIDE, SLIDE	2							
6	1	172A23-72501-1	CYLINDER ASSY,BUCKET	1							
6-1	1	172A23-72502-1	CYLINDER ASSY,BUCKET	1							S
		(A=M#33361)									
6-2	1	172A23-72502-3	CYLINDER,BUCKET (2J)	1							S
		(A=M34345)									
6-3	1	172A23-72502-N	CYLINDER,BUCKET	1							S
		(A=M45501)									
7	2	172456-72031	SEAL SET,HEAD 55X35	1							
12	2	172141-72250	NUT	1							
13	2	172449-72321	GASKET RGU55 ASSSY	1							
16	2	172449-72410	HEAD CMP B,55-35	1							
18	3	24550-035300	BUSH	1							
19	2	172A23-72520-1	TUBE, BUCKET	1							
19-1	2	172A23-72520-3	TUBE ,BUCKET (2J)	1							S
		(A=M34345)									
19-2	2	172A23-72520-N	TUBE ,BUCKET	1							S
		(A=M45501)									
21	3	172141-72561	BUSH (35-45-30	1							
22	3	172448-81610	SEAL 35X45X4,DUST	2							
23	2	172173-72550	ROCK WASHER 55	1							
24	2	172A23-72570	ROD ASSY,BUCKET	1							
24-1	2	172A23-72571	ROD ASSY,BUCKET	1							S 2
		(A=M#33361)									
26	3	172141-72561	BUSH (35-45-30	1							
27	3	172448-81610	SEAL 35X45X4,DUST	2							
28	2	172456-72580	PISTON 55 (27-27	1							
29	2	24761-040000	NIPPLE, GREASE	1							
30	1	172A23-72950-1	PLATE, SLIDE	1							
30-1	1	172A23-72951-3	PLATE,SLIDE 585 (87)	1							N
		(A=M#33361)									

Remarks  
 (1) INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.35-1.

Fig.45. BUCKET CYLINDER

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

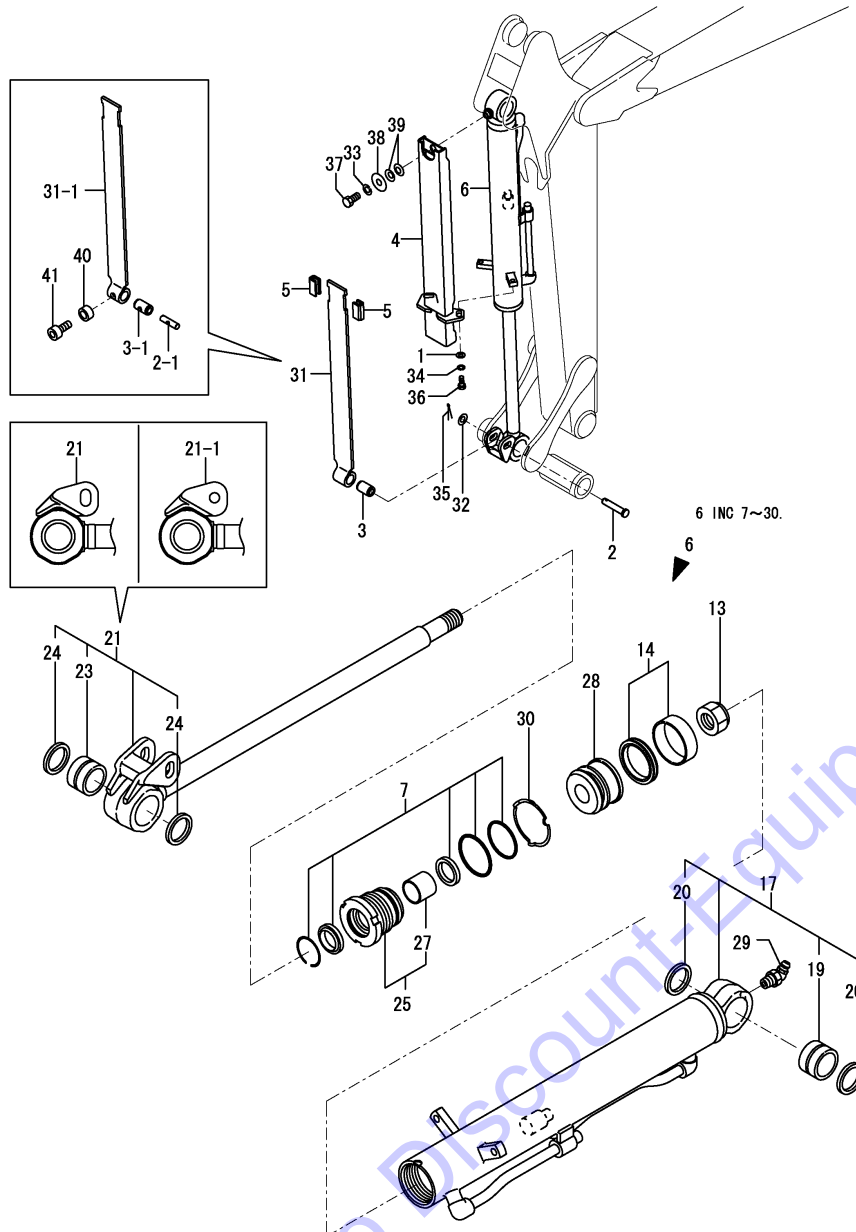
(D)=  
(E)=  
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
30-2	1	172A23-72951-1 (A=M34345)	PLATE, SLIDE	1							S
30-3	1	172A23-72951-N (A=M45501)	PLATE, SLIDE	1							S
31	1	22137-140000	WASHER	1							
31-1	1	172A23-72020 (A=M#30829)	WASHER	1							R
31-2	1	172A23-72020 (A=M#33361)	WASHER	1							Z
32	1	22217-100000	WASHER, SPRING	1							
33	1	22217-100000 (A=M#31474)	WASHER, SPRING	2							Z
34	1	22417-500250 (A=M#33361)	PIN, COTTER	1							Z
35	1	26076-100202	BOLT	2							
35-1	1	26076-100252 (A=M35892)	BOLT	2							S
36	1	26116-100162	BOLT	1							
37	1	933147-03400	WASHER, BRAKE ARM	1							
38	1	933168-14170	SPRING	2							
39	1	172A46-72070 (A=M#33361)	SPACER	1							W
40	1	26450-060162 (A=M#33361)	BOLT	1							W
40-1	1	172A47-72840 (A=M34875)	BOLT	1							N
41	1	172A23-72043 (A=M#33361)	SHAFT	1							W

Remarks  
(1) INTERCHANGEABLE BY SIMULTANEOUS  
REPLACEMENT WITH REF.NO.35-1.

Fig.46. BUCKET CYLINDER(QUICK COUPLER SPEC.)

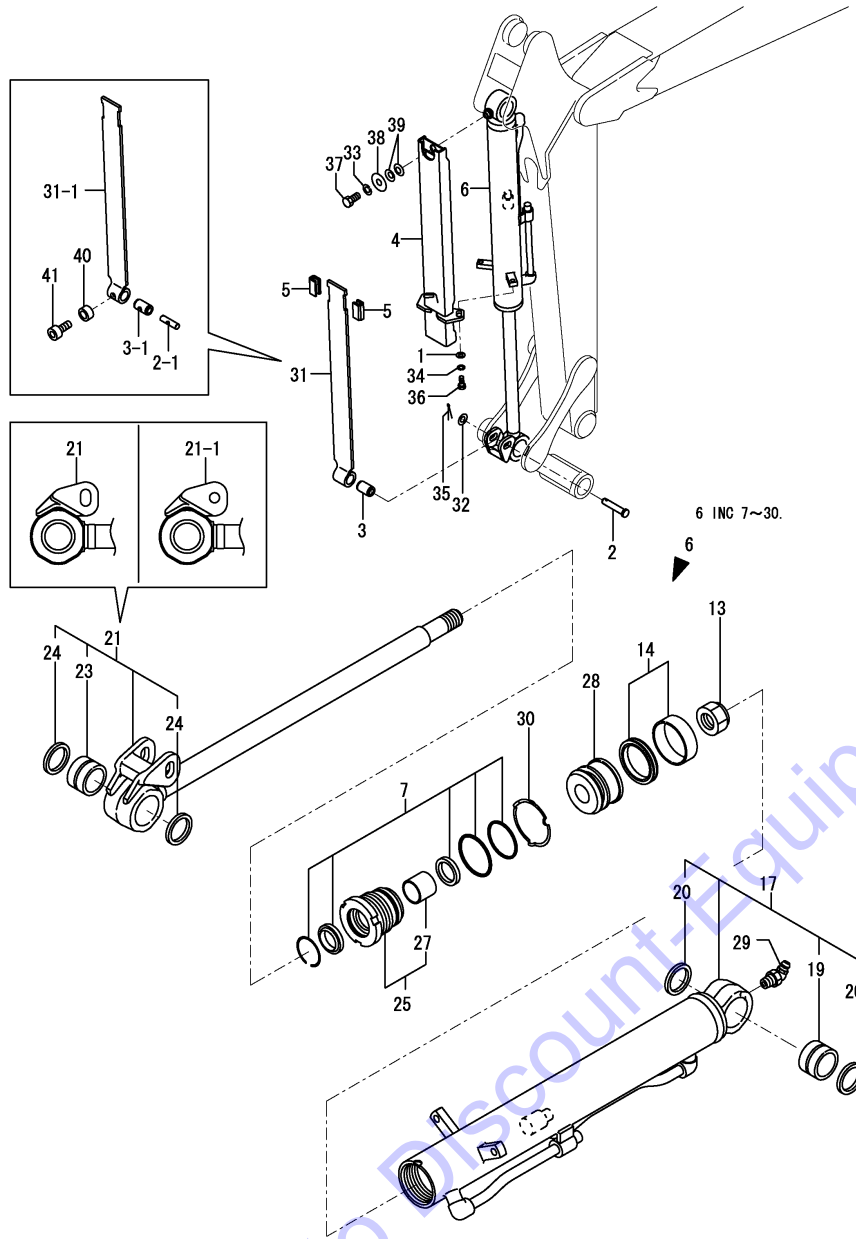


(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46040	SEAT, SPRING	2	2	2					
1-1	1	172A79-72570	WASHER	2	2	2					F 1
		(A=M35970) (B=M35970) (C=M35970)									
2	1	172A23-72041	PIN	1	1	1					
2-1	1	172A23-72042	PIN	1	1	1					N
		(A=M/#30829) (B=M/#30829) (C=M/#30829)									
2-2	1	172A23-72043	SHAFT	1	1	1					S
		(A=M33669) (B=M33669) (C=M33669)									
3	1	172A23-72050	GROMMET	1	1	1					
3-1	1	172A23-72051	GROMMET	1	1	1					N
		(A=M33669) (B=M33669) (C=M33669)									
3-2	1	172A23-72052	GROMMET	1	1	1					N
		(A=M32796) (B=M32796) (C=M32796)									
4	1	172A23-72901-1	GUIDE ASSY	1	1	1					
4-1	1	172A23-72901-3	GUIDE ASSY,595 (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
4-2	1	172A23-72902-1	GUIDE ASSY,595 (2J)	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
4-3	1	172A23-72902-N	GUIDE ASSY,595	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
5	1	172A23-72081	GUIDE, SLIDE	2	2	2					
6	1	172A30-72501-1	CYLINDER ASSY,BUCKET	1	1	1					
6-1	1	172A30-72502-2	CYLINDER,BUCKETQ(87)	1	1	1					S
		(A=M33669) (B=M33669) (C=M33669)									
6-2	1	172A30-72502-1	CYLINDER,BUCKETQ(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
6-3	1	172A30-72502-N	CYLINDER,BUCKETQ	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
7	2	172457-72050	SEAL SET, HEAD	1	1	1					
13	2	172141-72250	NUT	1	1	1					
14	2	172137-72453	SEAL SET, PISTON 60A	1	1	1					
17	2	172A30-72520-1	TUBE, BUCKET	1	1	1					
17-1	2	172A30-72520-3	TUBE ,BUCKET Q(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
17-2	2	172A30-72520-N	TUBE ,BUCKET Q	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
19	3	172141-72561	BUSH (35-45-30	1	1	1					
20	3	172448-81610	SEAL 35X45X4,DUST	2	2	2					
21	2	172A30-72540	ROD,BUCKET Q	1	1	1					
21-1	2	172A30-72541	ROD ASSY,BUCKET Q	1	1	1					S
		(A=M33669) (B=M33669) (C=M33669)									
23	3	172141-72561	BUSH (35-45-30	1	1	1					
24	3	172448-81610	SEAL 35X45X4,DUST	2	2	2					
25	2	172141-72540	HEAD 6035, CYLINDER	1	1	1					
27	3	24550-035300	BUSH	1	1	1					
28	2	172956-72560	PISTON 60	1	1	1					
29	2	24761-040000	NIPPLE, GREASE	1	1	1					
30	2	933125-59600	WASHER 60 B, LOCK	1	1	1					
31	1	172A23-72950-1	PLATE, SLIDE	1	1	1					
31-1	1	172A23-72951-3	PLATE,SLIDE 585 (87)	1	1	1					N
		(A=M33669) (B=M33669) (C=M33669)									

Remarks  
 (1) INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.36-1.

Fig.46. BUCKET CYLINDER(QUICK COUPLER SPEC.)



Remarks  
 (1) INTERCHANGEABLE BY SIMULTANEOUS  
 REPLACEMENT WITH REF.NO.36-1.

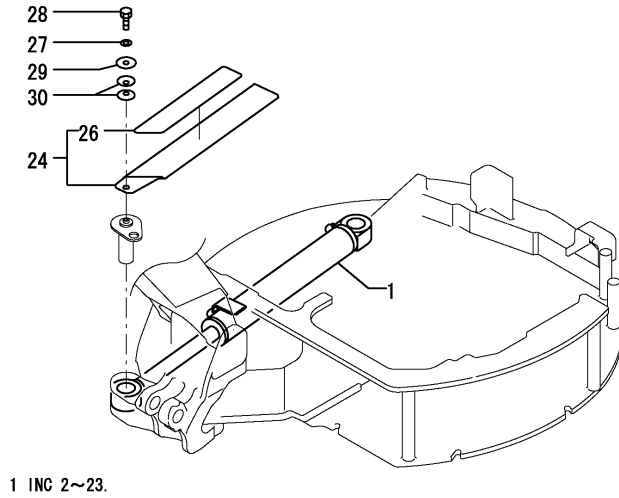
(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
31-2	1	172A23-72951-1 (A=M34345) (B=M34345) (C=M34345)	PLATE, SLIDE	1	1	1					S
31-3	1	172A23-72951-N (A=M45501) (B=M45501) (C=M45501)	PLATE, SLIDE	1	1	1					S
32	1	22137-140000	WASHER	1	1	1					
32-1	1	172A23-72020 (A=M/#30829) (B=M/#30829) (C=M/#30829)	WASHER	1	1	1					R
32-2	1	172A23-72020 (A=M33669) (B=M33669) (C=M33669)	WASHER	1	1	1					Z 1
33	1	22217-100000	WASHER, SPRING	1	1	1					
34	1	22217-100000 (A=M/#31474)	WASHER, SPRING	2							Z
35	1	22417-500250 (A=M33669)	PIN, COTTER	1							Z
36	1	26076-100202	BOLT	2	2	2					
36-1	1	26076-100252 (A=M35970) (B=M35970) (C=M35970)	BOLT	2	2	2					S
37	1	26116-100162	BOLT	1	1	1					
38	1	933147-03400	WASHER, BRAKE ARM	1	1	1					
39	1	933168-14170	SPRING	2	2	2					
40	1	172A46-72070 (A=M33669) (B=M33669) (C=M33669)	SPACER	1	1	1					W
41	1	26450-060162 (A=M33669) (B=M33669) (C=M33669)	BOLT	1	1	1					W
41-1	1	172A47-72840 (A=M34875) (B=M34875) (C=M34875)	BOLT	1	1	1					N

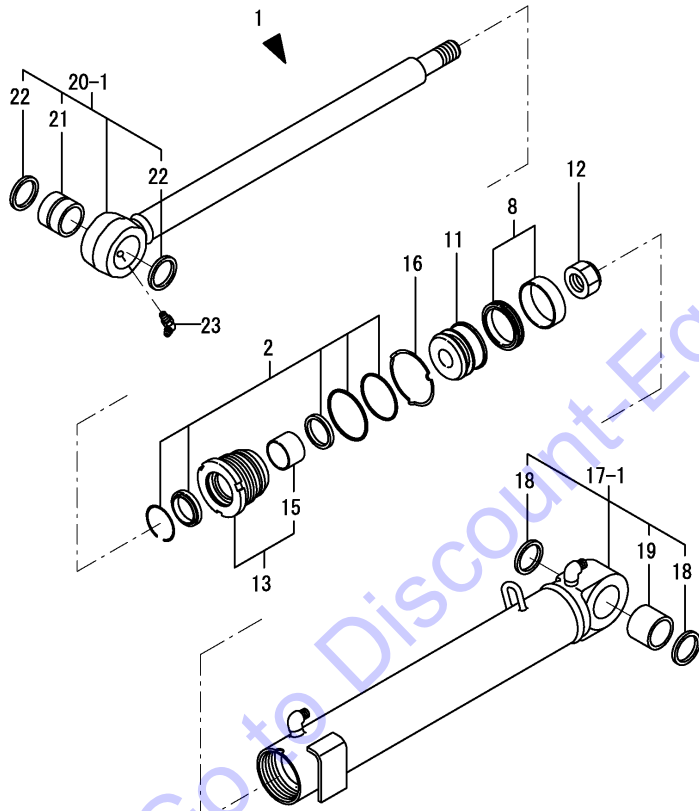
Fig.47. SWING CYLINDER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



1 INC 2~23.

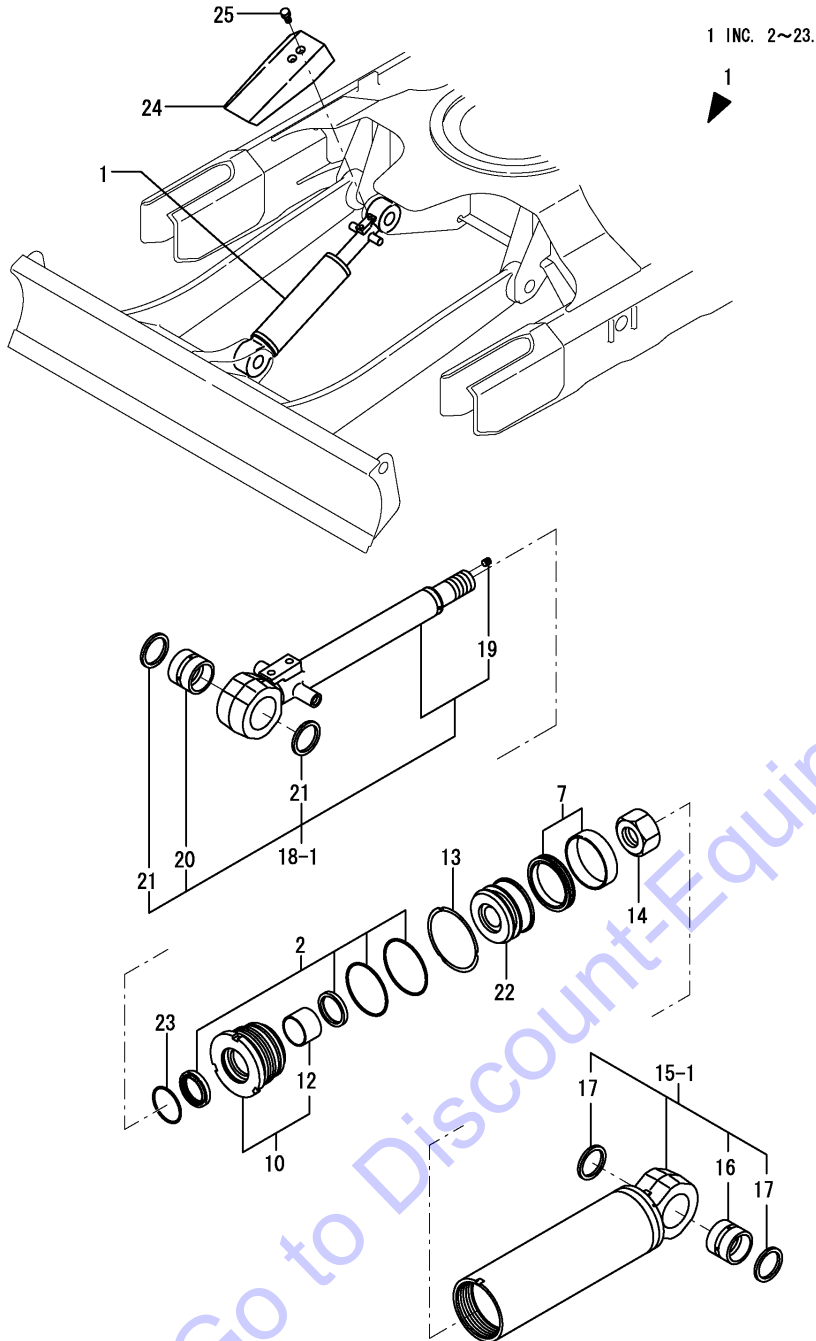


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72700-1	CYLINDER ASSY, SWING	1	1	1					
1-1	1	172456-72700-2	CYLINDER ASSY, SWING	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	2	172456-72050	SEAL SET, HEAD	1	1	1					
8	2	172460-72070	SEAL SET	1	1	1					
11	2	172456-72190	PISTON 70 27	1	1	1					
12	2	172141-72250	U-NUT M27	1	1	1					
13	2	172143-72400	HEAD 70 40	1	1	1					
15	3	24550-040300	BUSH 40X30	1	1	1					
16	2	172141-72420	WASHER 70, LOCK	1	1	1					
17-1	2	172456-72850-1	TUBE ASSY, SWING	1	1	1					
17-2	2	172456-72850-2	TUBE ASSY, SWING	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
18	3	172448-72650	SEAL 40X50X4,DUST	2	2	2					
19	3	172458-72740	BUSH 40X40,SO	1	1	1					
20-1	2	172456-72860	ROD ASSY,SWING	1	1	1					
21	3	172165-72310	BUSH 40X40	1	1	1					
22	3	172448-72650	SEAL 40X50X4,DUST	2	2	2					
23	2	24761-050000	NIPPLE C,GREASE	1	1	1					
24	1	172456-72790-1	COVER, SWING	1	1	1					
24-1	1	172456-72790-2	COVER, SWING	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
26	2	172456-72830	SEAT,COVER	1	1	1					
26-1	2	172164-62431	SHEET,NON SLIP50X200	1	1	1					R
		(A=M36153) (B=M36153) (C=M36153)									
27	1	22217-100000	SPRING WASHER 10	1	1	1					
28	1	26116-100162	BOLT M10X 16 PLATED	1	1	1					
29	1	933147-03400	WASHER, BRAKE ARM	1	1	1					
30	1	933168-14170	SPRING 16	2	2	2					

Fig.48. BLADE CYLINDER

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

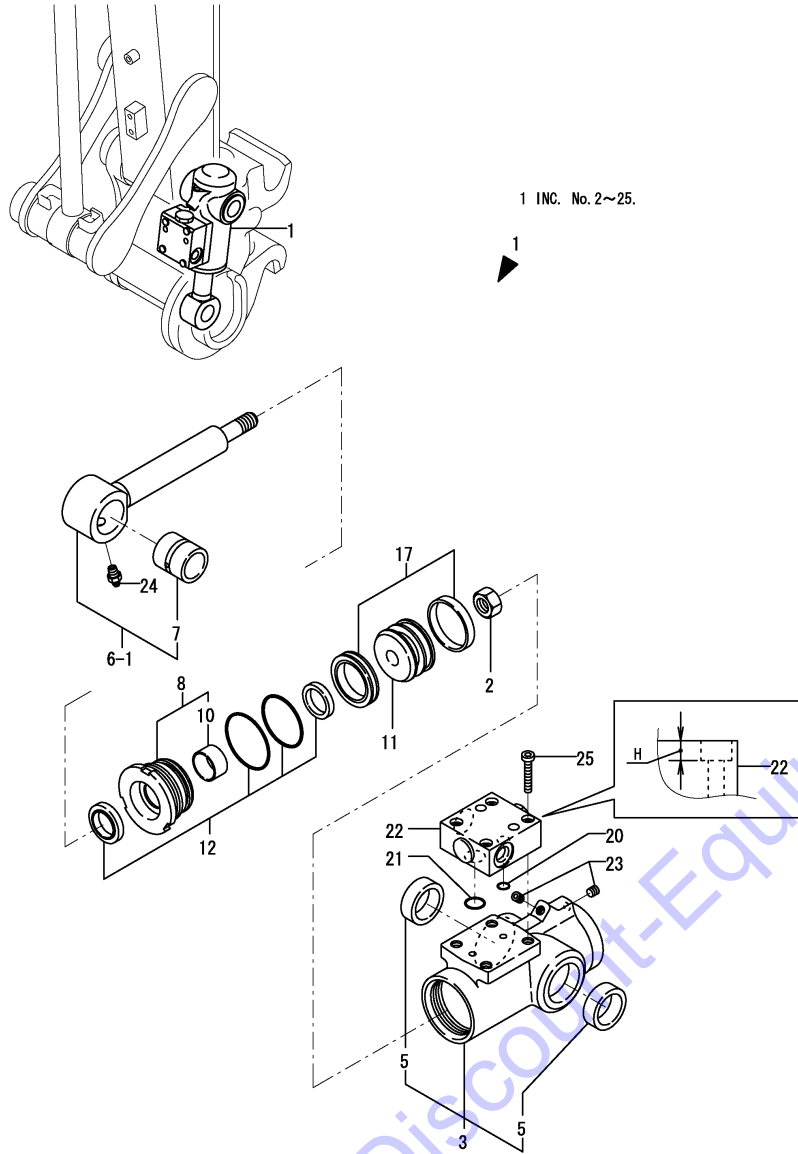


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172421-72700-1	CYLINDER ASSY, BLADE	1	1	1					
1-1	1	172421-72700-2	CYLINDER ASSY, BLADE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
2	2	172168-72020	SEAL SET, HEAD 70X40	1	1	1					
7	2	172460-72070	SEAL SET	1	1	1					
10	2	172143-72400	HEAD 70 40	1	1	1					
12	3	24550-040300	BUSH 40X30	1	1	1					
13	2	172141-72420	WASHER 70, LOCK	1	1	1					
14	2	172175-72550	U-NUT	1	1	1					
15-1	2	172421-72610-1	TUBE ASSY, BLADE	1	1	1					
15-2	2	172421-72610-2	TUBE ASSY, BLADE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
16	3	172168-72240	BUSH 38X50X40	1	1	1					
17	3	172168-81270	SEAL,DUST 38X50X4	2	2	2					
18-1	2	172421-72620	ROD ASSY,BLADE	1	1	1					
19	4	23871-005000	PLUG, PT1/16	1	1	1					
20	3	172168-72240	BUSH 38X50X40	1	1	1					
21	3	172168-81270	SEAL,DUST 38X50X4	2	2	2					
22	2	172421-72770	PISTON 70 30	1	1	1					
23	2	933111-26600	RING 55, SPRING	1	1	1					
24	1	172422-72790-3	COVER, BLADE	1	1	1					
24-1	1	172422-72790-2	COVER, BLADE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
24-2	1	172422-72791-5	COVER, BLADE	1	1	1					N
		(A=M/#35241) (B=M/#35241) (C=M/#35241)									
24-3	1	172A23-72800	COVER ASSY, BLADE	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
25	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					

Fig.49. HITCH CYLINDER(QUICK COUPLER SPEC.)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172956-72800-1	CYLINDER, HITCH	1	1	1					
1-1	1	172956-72800-3 (A=M34345) (B=M34345) (C=M34345)	CYLINDER ,HITCH(2J)	1	1	1					S
1-2	1	172956-72800-N (A=M45501) (B=M45501) (C=M45501)	CYLINDER ,HITCH	1	1	1					S
2	2	172156-72400	NUT	1	1	1					
3	2	172956-72810-1	TUBE, HITCH	1	1	1					
3-1	2	172956-72810-3 (A=M34345) (B=M34345) (C=M34345)	TUBE , HITCH(2J)	1	1	1					S
3-2	2	172956-72810-N (A=M45501) (B=M45501) (C=M45501)	TUBE , HITCH	1	1	1					S
5	3	172956-72880	BUSH (25-33-14.5)	2	2	2					
6-1	2	172956-72920	ROD ASSY,HITCH	1	1	1					
7	3	172156-84440	BUSH 25X 35	1	1	1					
8	2	172956-72860	HEAD ASSY 45 25	1	1	1					
10	3	24550-025150	BUSH	1	1	1					
11	2	172956-72890	PISTON 45 25	1	1	1					
12	2	172956-72900	SEAL SET, HEAD 45X25	1	1	1					
17	2	172956-72910	SEAL SET, PISTON	1	1	1					
20	2	172958-72950	O-RING	1	1	1					
21	2	172958-72960	O-RING	1	1	1					
22	2	172958-72982-1	VALVE, CHECK	1	1	1					
22-1	2	172958-72982-2 (A=M34345) (B=M34345) (C=M34345)	VALVE, CHECK	1	1	1					S
22-2	2	172958-72983 (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	VALVE ASSY,OPERATE	1	1	1					F 1
22-3	2	172958-72983-N (A=M45501) (B=M45501) (C=M45501)	VALVE ASSY,OPERATE	1	1	1					S
23	2	23871-005000	PLUG	2	2	2					
24	2	24761-020000	NIPPLE, GREASE	1	1	1					
25	2	26450-060352	BOLT	4	4	4					
25-1	2	26450-060302 (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	BOLT	1	1	1					S

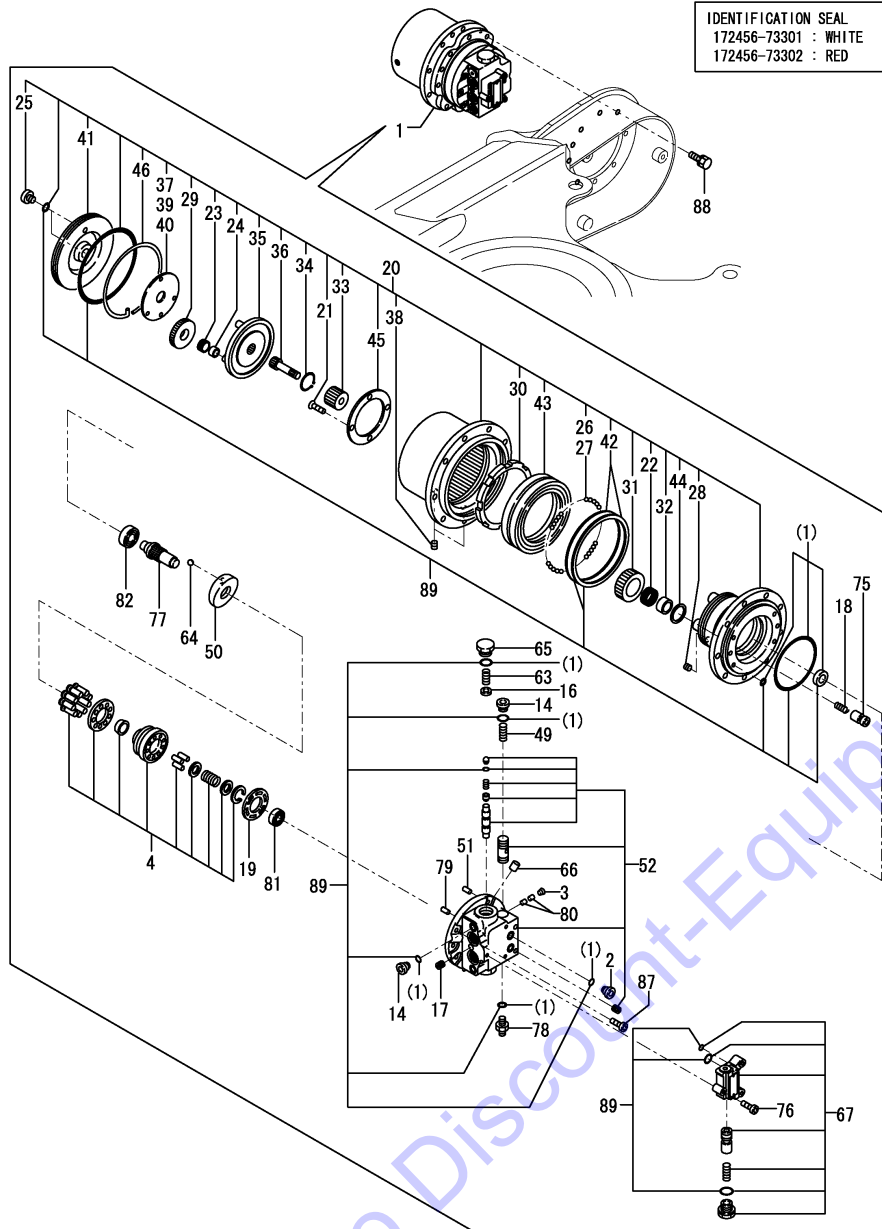
Remarks  
 (1)H=Ref.No.22-1 4mm, No.22-2 8mm.  
 Interchangeable by simultaneous  
 replacement with Ref.No.25-1.



Fig.50. TRAVEL MOTOR

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



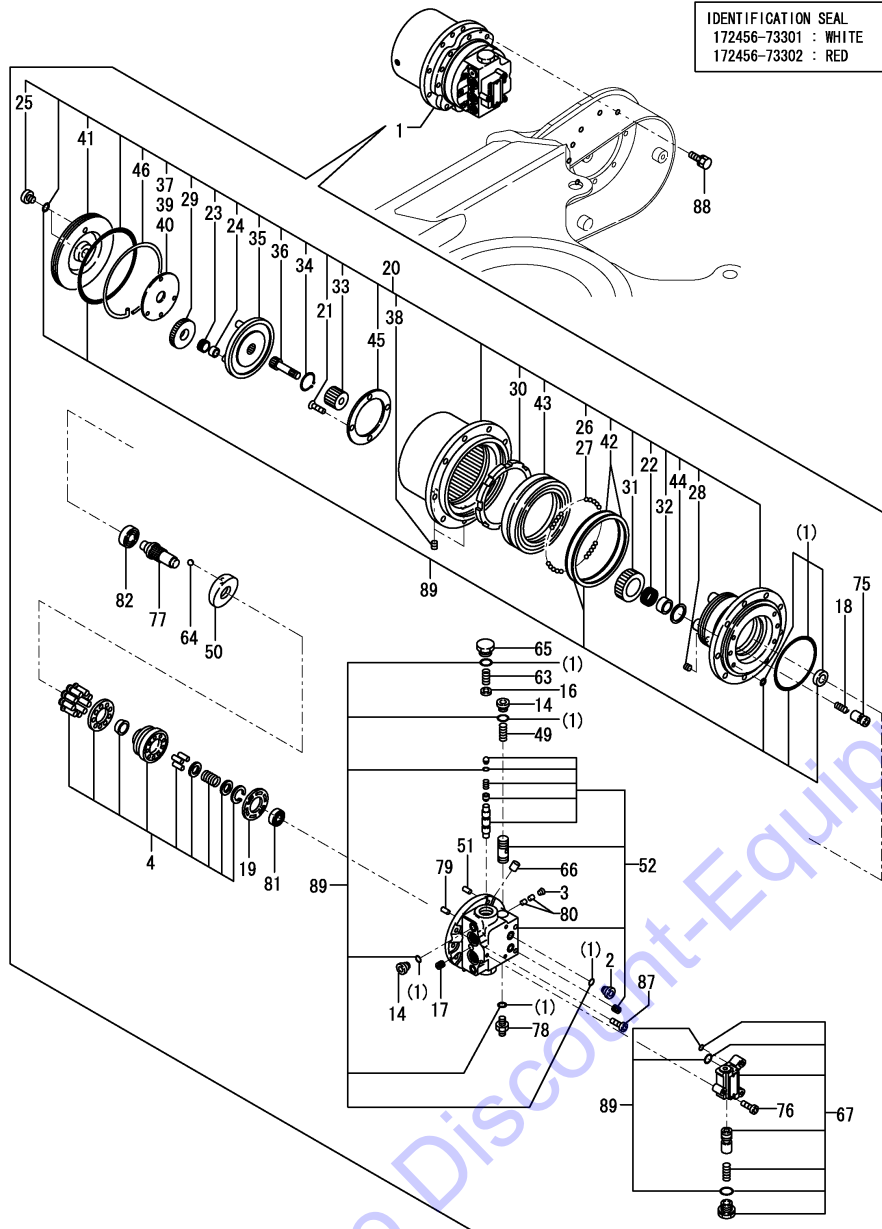
Remarks  
 (1)IDENTIFICATION SEAL COLOR : WHITE  
 (2)IDENTIFICATION SEAL COLOR : RED

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73300	MOTOR ASSY,TRAVEL	2	2	2					
1-1	1	172456-73301	MOTOR ASSY, TRAVEL	2	2	2				N	1
		(A=M/#31553) (B=M/#31553) (C=M/#31553)									
1-2	1	172456-73302	MOTOR ASSY, TRAVEL	2	2	2				N	2
		(A=M33831) (B=M33831) (C=M33831)									
2	2	1A6240-37360	PLUG	4	4	4					
3	2	172147-70220	PLUG	4	4	4					
4	2	172450-73620	CYLINDER BLOCK KIT	2	2	2					
14	2	172148-70301	PLUG	6	6	6				Z	1
		(A=M33831) (B=M33831) (C=M33831)									
14-1	2	172A23-73530	PLUG	6	6	6				W	2
		(A=M33831) (B=M33831) (C=M33831)									
16	2	172141-70450	SEAT, SPRING	4	4	4					
17	2	172162-70780	PLUG	2	2	2					
18	2	172168-71950	SPRING	4	4	4					1
18-1	2	172168-71951	SPRING	4	4	4				S	2
		(A=M33831) (B=M33831) (C=M33831)									
19	2	172638-73330	PLATE	2	2	2					
20	2	172456-73340	REDUCTION GEAR	2	2	2				Z	1
		(A=M33831) (B=M33831) (C=M33831)									
20-1	2	172A23-73510	REDUCTION GEAR	2	2	2				W	2
		(A=M33831) (B=M33831) (C=M33831)									
21	3	172141-70110	SCREW	8	8	8					
22	3	172147-70120	GAUGE, W/ROLLER	8	8	8					
23	3	172141-70150	GAUGE, W/ROLLER	6	6	6					
24	3	172141-70160	RACE, INNER	6	6	6					
25	3	172148-70301	PLUG	4	4	4					
26	3	172122-70350	BALL	198	198	198					
27	3	172122-70350	BALL	20	20	20					
28	3	172450-73330	PLUG	4	4	4					
29	3	172421-73350	PLANETARY, GEAR A	6	6	6					
30	3	172456-73350	RING NUT	2	2	2					
30-1	3	172456-73351	RING NUT	2	2	2				N	
		(A=M35238) (B=M35238) (C=M35238)									
31	3	172456-73360	PLANETARY, GEAR B	8	8	8					
32	3	172456-73370	INNER RACE	8	8	8					
33	3	172456-73380	GEAR,SUN	2	2	2					
33-1	3	172456-73980	SUN GEAR	2	2	2				R	
		(A=M35238) (B=M35238) (C=M35238)									
34	3	172456-73390	SNAP RING	2	2	2					
35	3	172456-73400	HOLDER	2	2	2					
36	3	172456-73410	GEAR, DRIVE	2	2	2					
37	3	172456-73420	THRUST PLATE	2	2	2					
38	3	172122-73430	PLUG	4	4	4					
39	3	172456-73430	THRUST PLATE	2	2	2					
40	3	172456-73440	THRUST PLATE	2	2	2					
41	3	172456-73450	COVER	2	2	2					
42	3	172183-73510	SEAL, FLOATING)(2PCS	4	4	4					
43	3	172183-73520	BEARING	2	2	2					
44	3	172183-73560	WASHER, THRUST	8	8	8					
45	3	172183-73570	PLATE, THRUST	2	2	2					

Fig.50. TRAVEL MOTOR

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



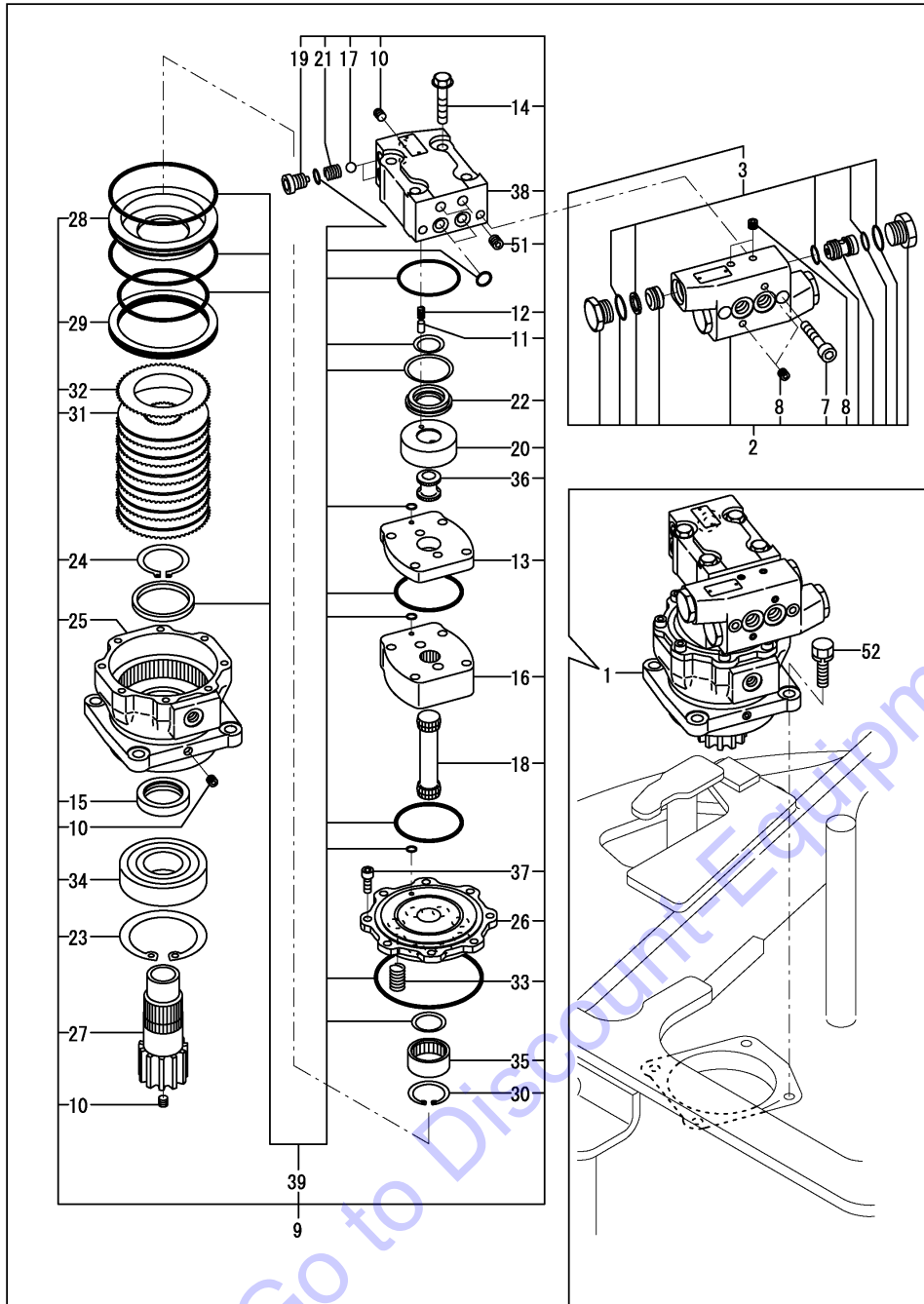
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
46	3	172183-73660	WIRE	2	2	2					
49	2	172421-73400	SPRING	2	2	2					
50	2	172456-73460	SLANT PLATE	2	2	2					
50-1	2	172456-73461 (A=M35238) (B=M35238) (C=M35238)	SLANT PLATE	2	2	2					N
51	2	172122-73470	PIN	2	2	2					
52	2	172456-73330	BASE PLATE ASSY	2	2	2					
52-1	2	172456-73331 (A=M/#31553) (B=M/#31553) (C=M/#31553)	BASE PLATE KIT	2	2	2					N 1
52-2	2	172A23-73550 (A=M33831) (B=M33831) (C=M33831)	PLATE KIT, BASE	2	2	2					S 2
63	2	172456-73500	SPRING	4	4	4					
64	2	172450-73510	BALL,STEEL	4	4	4					
65	2	172456-73510	CAP, STEERING WHEEL	4	4	4					
66	2	172456-73520	ORIFICE	4	4	4					
67	2	172456-73540	VALVE ASSY	2	2	2					
75	2	172450-73550	PISTON ASSY	4	4	4					1
75-1	2	172450-73551 (A=M33831) (B=M33831) (C=M33831)	PISTON ASSY	4	4	4					S 2
76	2	172456-73570	BOLT,SOCKET HEAD	6	6	6					
77	2	172183-73670	SHAFT	2	2	2					
78	2	172183-73780 (A=M33831) (B=M33831) (C=M33831)	PLUG	2	2	2					Z 1
78-1	2	172A23-73540 (A=M33831) (B=M33831) (C=M33831)	PLUG	2	2	2					W 2
79	2	172122-73480	PIN	4	4	4					
80	2	172312-74790	ORIFICE	8	8	8					
81	2	24101-060024	BALL BEARING	2	2	2					
82	2	24101-060044	BALL BEARING #6004	2	2	2					
87	2	26450-080202	BOLT M 8X 20	12	12	12					
88	1	26013-100252	BOLT W/WASHER M10X25	16	16	16					
89	1	172456-73320	SEAL SET	2	2	2					

Remarks  
 (1)IDENTIFICATION SEAL COLOR : WHITE  
 (2)IDENTIFICATION SEAL COLOR : RED

Fig.51. TURNING MOTOR

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

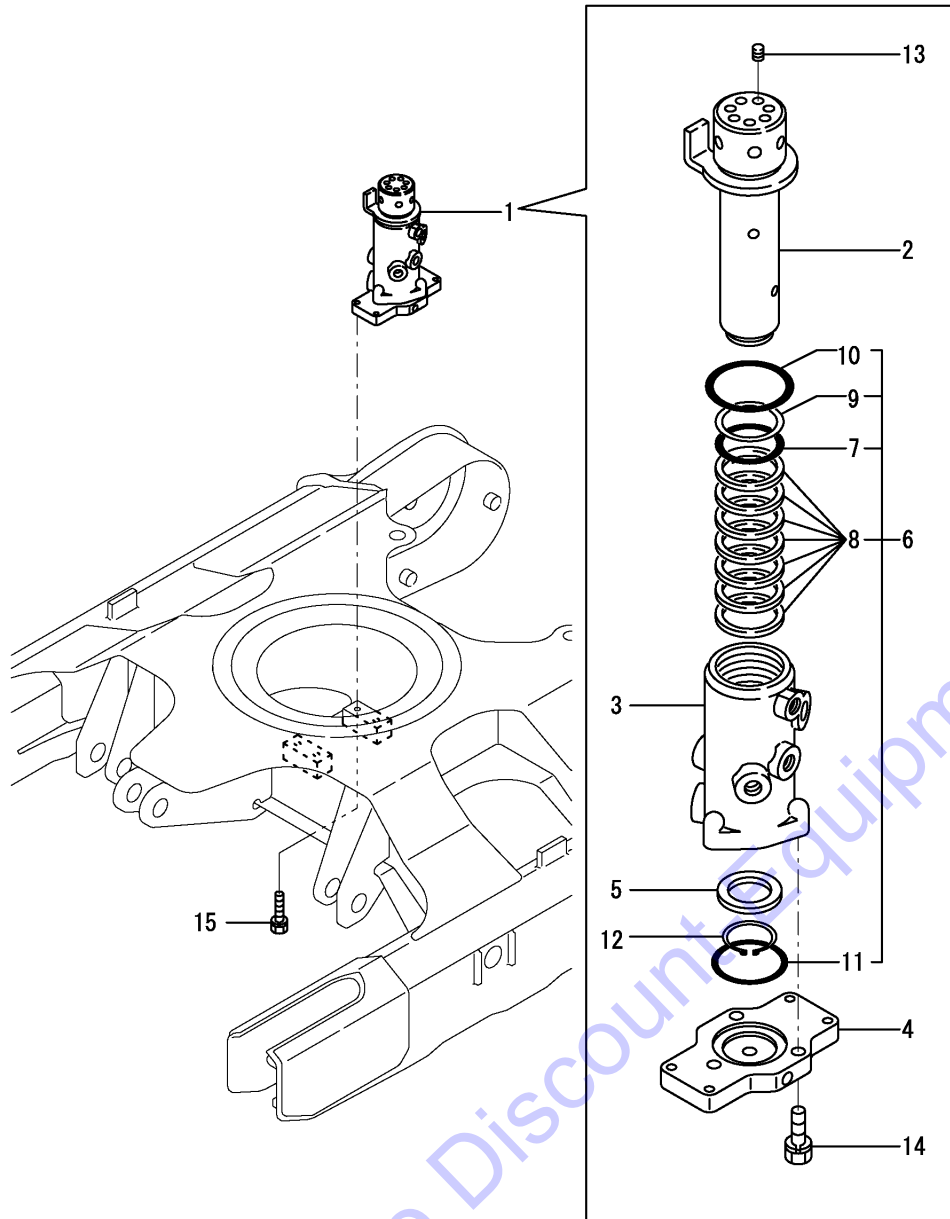


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73310	MOTOR,SWING	1	1	1					
2	2	172456-77100	VALVE	1	1	1					
3	3	172456-77110	SEAL SET	1	1	1					
7	3	172456-77130	BOLT 6*65	2	2	2					
8	3	23871-010000	PLUG PT1/8,SCREW	6	6	6					
9	2	172456-77140	MOTOR,SWING	1	1	1					
10	3	172137-70490	PLUG	4	4	4					
11	3	172137-70570	PIN	2	2	2					
12	3	172137-70580	SPRING	2	2	2					
13	3	172148-73350	PLATE, VALVE	1	1	1					
14	3	172173-73510	BOLT 12X40	4	4	4					
15	3	172173-73520	COLLAR	1	1	1					
16	3	172173-73570	JIROLLER	1	1	1					
17	3	172168-73580	BALL	2	2	2					
18	3	172173-73580	DRIVE	1	1	1					
19	3	172168-73590	PLUG	2	2	2					
20	3	172173-73590	HOLDER	1	1	1					
21	3	172168-73600	SPRING	2	2	2					
22	3	172173-73600	RING, BALANCING	1	1	1					
23	3	172173-73690	SNAP RING	1	1	1					
24	3	172173-73700	SNAP RING	1	1	1					
25	3	172456-77150	HOUSING, BEARING	1	1	1					
26	3	172456-77160	FLANGE, MOUTING	1	1	1					
27	3	172456-77170	GEAR, PINION	1	1	1					
28	3	172456-77180	PISTON, HYDRAULIC	1	1	1					
29	3	172456-77190	RING	1	1	1					
30	3	172456-77200	CIRCLIP	1	1	1					
31	3	172456-77210	PLATE,FRICTION	6	6	6					
32	3	172456-77220	PLATE	7	7	7					
33	3	172456-77230	SPRING	8	8	8					
34	3	172456-77240	FRONT BEARING	1	1	1					
35	3	172456-77250	NEEDLE BEARING	1	1	1					
36	3	172141-77260	VALVE DRIVE	1	1	1					
37	3	172456-77270	BOLT 6*65	8	8	8					
38	3	172456-77280	HOUSING, VALVE	1	1	1					
39	3	172456-77290	SEAL SET	1	1	1					
51	3	172141-77400	PLUG, BLIND	2	2	2					
52	1	26013-120402	BOLT M12X 40	4	4	4					

Fig.52. SWIVEL JOINT(Y SPEC.)(TO M39318)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



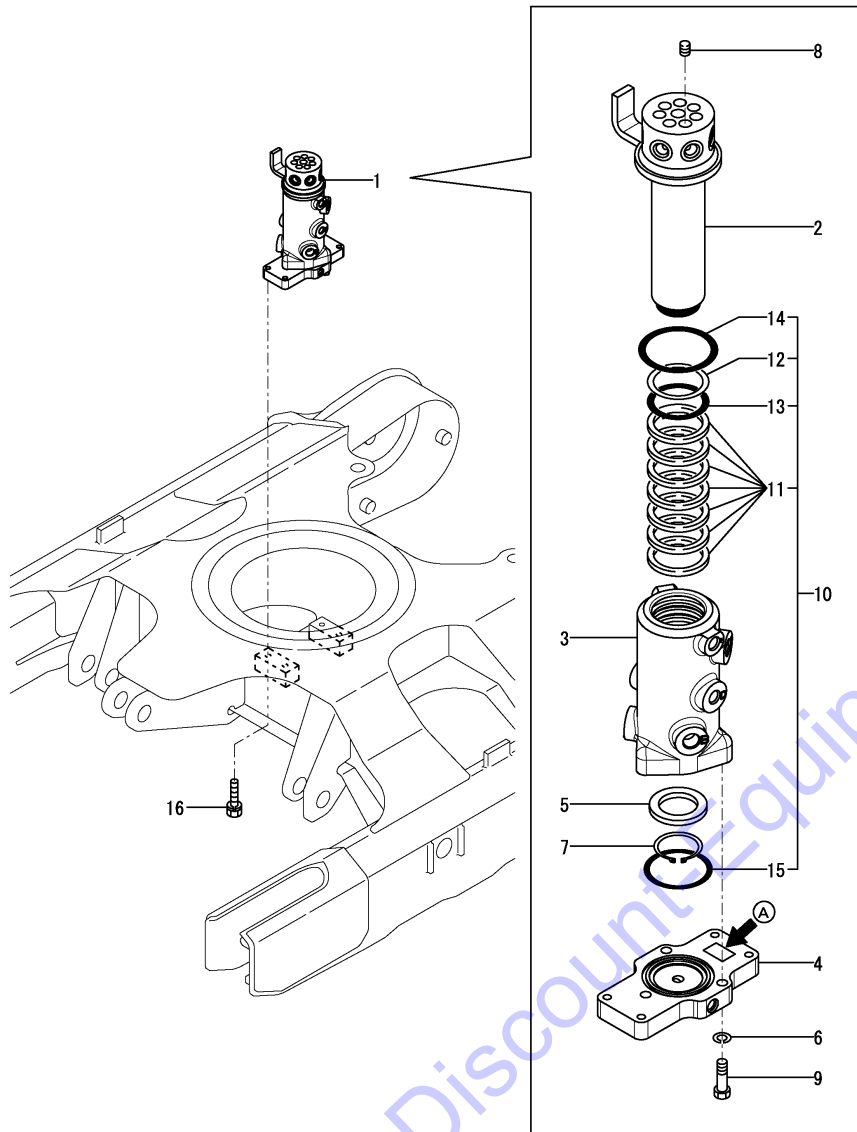
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-73802	JOINT ASSY, SWIVEL	1	1	1					
1-1	1	172444-73803	JOINT ASSY, SWIVEL	1	1	1					R
		(A=M/#32916) (B=M/#32916) (C=M/#32916)									
1-2	1	172444-73803	JOINT ASSY, SWIVEL	1	1	1					Z 1
		(A=M39319) (B=M39319) (C=M39319)									
2	2	172444-73810	SHAFT ASSY, SWIVEL	1	1	1					
3	2	172444-73831	HUB, SWIVEL	1	1	1					
4	2	172444-73840	FLANGE, SWIVEL	1	1	1					
5	2	172137-73860	SPACER, SWIVEL	1	1	1					
6	2	172444-73880	SEAL SET, SWIVEL	1	1	1					
7	3	172142-73800	O-RING	1	1	1					
8	3	172458-73820	SEAL, SWIVEL	7	7	7					
8-1	3	172447-73840	SEAL	7	7	7					R
		(A=M/#32916) (B=M/#32916) (C=M/#32916)									
9	3	172148-73870	RING, BUCK UP	1	1	1					
10	3	24311-000750	O-RING	1	1	1					
11	3	24321-000700	O-RING	1	1	1					
12	2	22242-000451	RING	1	1	1					
13	2	23871-020000	PLUG	7	7	7					
14	2	26013-100352	BOLT	3	3	3					
15	1	26013-100402	BOLT	4	4	4					

Remarks  
 (1)Compatibility by assembly exchange  
 with parts of Fig.86(52A) Ref.No.1.

Fig.86. (52A)SWIVEL JOINT(N SPEC.)(FROM M39319)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



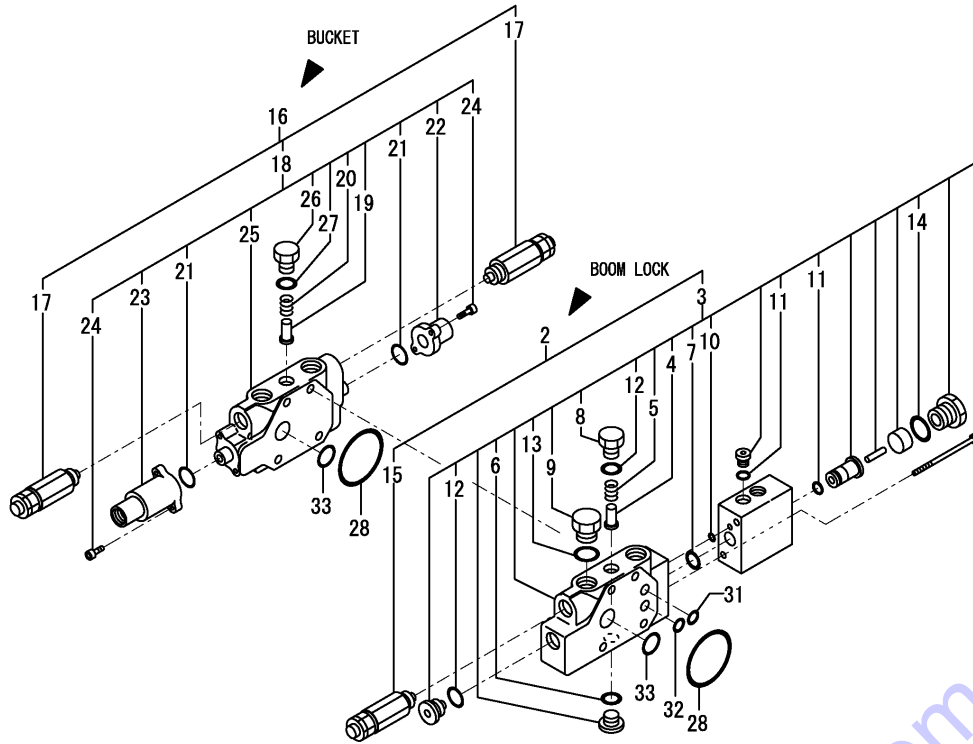
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172B02-73800 (A=M39319) (B=M39319) (C=M39319)	JOINT ASSY, SWIVEL	1	1	1					W	1
2	2	172B02-73810	SHAFT ASSY, SWIVEL		1	1	1					
3	2	172B02-73840	HUB, SWIVEL		1	1	1					
4	2	172B02-73850	FLANGE, SWIVEL		1	1	1					
5	2	172B02-73860	SPACER, SWIVEL		1	1	1					
6	2	22217-100000	WASHER, SPRING		3	3	3					
7	2	22242-000451	RING		1	1	1					
8	2	23871-020000	PLUG		7	7	7					
9	2	26076-100352	BOLT		3	3	3					
10	2	172B02-73900	SEAL KIT, SWIVEL		1	1	1					
11	3	172B02-73870	SEAL, SWIVEL		7	7	7					
12	3	172B02-73880	RING, BACKUP T3 55		1	1	1					
13	3	24315-000560	O-RING		1	1	1					
14	3	24315-000750	O-RING		1	1	1					
15	3	24325-000700	O-RING		1	1	1					
16	1	26013-100402	BOLT		4	4	4					

Remarks  
 (1)A:'NACHI'LABEL

Fig.53. CONTROL VALVE(1/6)

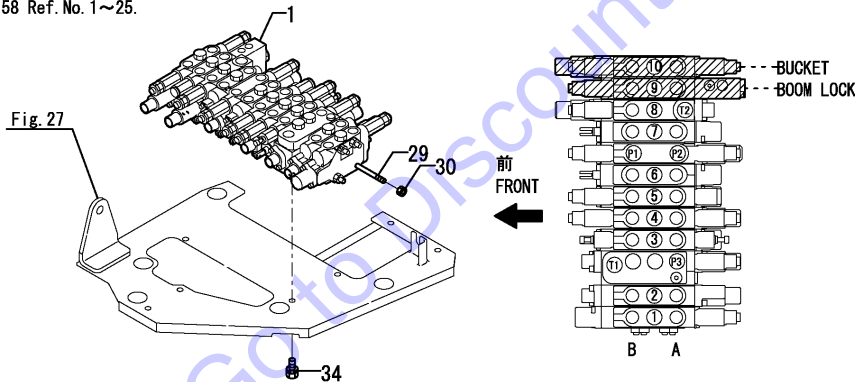
(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



CONTROL VALVE ASSY  
 172456-74101

- Fig. 53 Ref. No. 1
- INC. Fig. 53 Ref. No. 2~33.
- Fig. 54 Ref. No. 1~28.
- Fig. 55 Ref. No. 1~25.
- Fig. 56 Ref. No. 1~30.
- Fig. 57 Ref. No. 1~34.
- Fig. 58 Ref. No. 1~25.



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-74101	VALVE ASSY, CONTROL	1	1	1					
1-1	1	172456-74102	VALVE ASSY, CONTROL	1	1	1					N
				(A=M/#30865) (B=M/#30865) (C=M/#30865)							
2	2	172456-74430	BOOM LOCK SECTION	1	1	1					
3	3	172456-74260	BOOM LOCK ASSY	1	1	1					
4	4	172458-74290	CHECK VALVE	1	1	1					
5	4	172458-74360	SPRING, CHECK VALVE	1	1	1					
6	4	172456-74410	PACKING P 16	1	1	1					
7	4	172456-74420	PACKING P 17	1	1	1					
8	4	172458-74640	STAY, CHECK VALVE	1	1	1					
9	4	172458-74650	STAY, CHECK VALVE	1	1	1					
10	4	24311-000060	O-RING 1A P-6.0	1	1	1					
11	4	24315-000080	O-RING 1B P-8.0	2	2	2					
12	4	24315-000110	O-RING 1B P-11.0	2	2	2					
13	4	24315-000140	O-RING 1B P-14.0	1	1	1					
14	4	24315-000180	O-RING 1B P-18.0	1	1	1					
15	3	172456-74440	OVERLOAD 300/5	1	1	1					
16	2	172456-74390	BUCKET CHANGE-OVER	1	1	1					
17	3	172456-74280	OVERLOAD 250/5	2	2	2					
18	3	172458-74610	BUCKET SEC. ASSY	1	1	1					
19	4	172458-74150	CHECK VALVE	1	1	1					
20	4	172458-74160	SPRING, CHECK VALVE	1	1	1					
21	4	172458-74230	PACKING S 22	2	2	2					
22	4	172458-74240	COVER B1, PILOT	1	1	1					
23	4	172458-74250	COVER A1, PILOT	1	1	1					
24	4	172458-74260	SWP HEX.BOLT 5X20	4	4	4					
25	4	172458-74620	SPOOL ASSY, BUCKET	1	1	1					
26	4	172458-74630	STAY, CHECK VALVE	1	1	1					
27	4	24315-000110	O-RING 1B P-11.0	1	1	1					
28	2	172458-74720	PACKING G 4	2	2	2					
29	2	172458-74730	BOLT L380	4	4	4					
30	2	26716-080002	NUT M 8	4	4	4					
31	2	24315-000090	O-RING 1B P- 9.0	1	1	1					
32	2	24315-000100	O-RING 1B P-10.0	1	1	1					
33	2	24311-000180	O-RING 1A P-18.0	2	2	2					
34	1	26013-100162	BOLT M10X 16	3	3	3					

Fig.54. CONTROL VALVE(2/6)

CONTROL VALVE ASSY

172456-74101

Fig. 53 Ref. No. 1

INC. Fig. 53 Ref. No. 2~33.

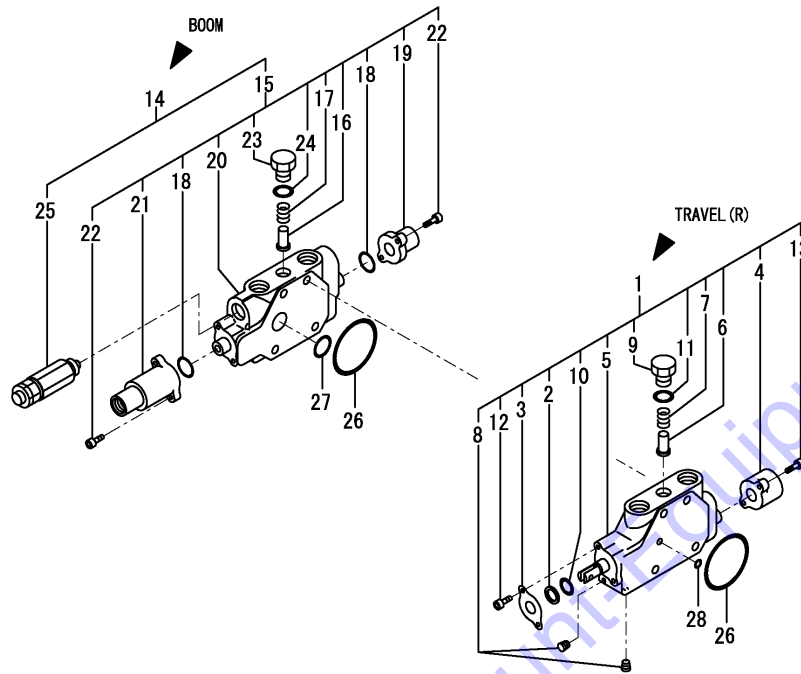
Fig. 54 Ref. No. 1~28.

Fig. 55 Ref. No. 1~25.

Fig. 56 Ref. No. 1~30.

Fig. 57 Ref. No. 1~34.

Fig. 58 Ref. No. 1~25.



(A)=VIO20-3(US)

(B)=VIO20-3(AS)

(C)=VIO20-3(NZ)

(D)=

(E)=

(F)=

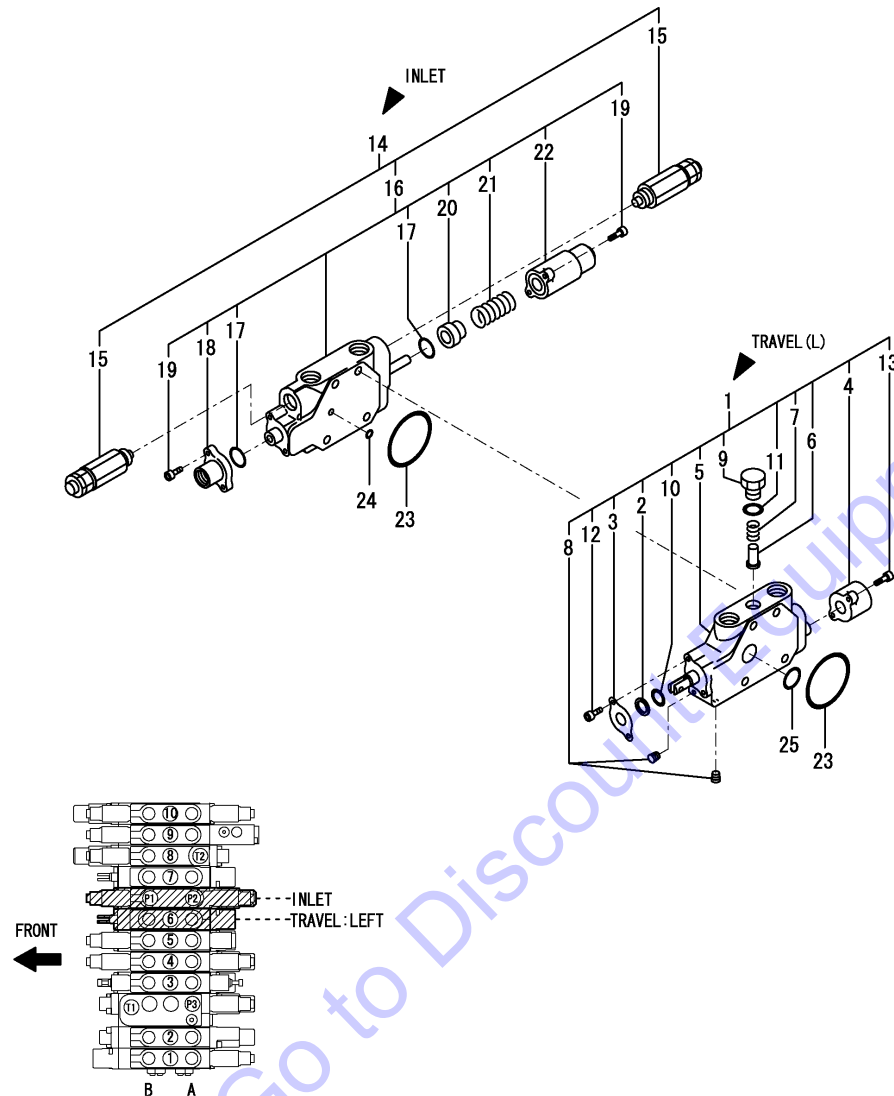
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74190	DRIVE R SEC. ASSY	1	1	1					
2	3	172458-74130	DUST WIPER	1	1	1					
3	3	172458-74140	BRACKET, OIL SEAL	1	1	1					
4	3	172458-74170	CAP,SPRING	1	1	1					
5	3	172456-74230	SPOOL ASSY,TRAVEL	1	1	1					
6	3	172458-74290	CHECK VALVE	1	1	1					
7	3	172458-74360	SPRING, CHECK VALVE	1	1	1					
8	3	172458-74460	PLUG GPM1/32	2	2	2					
9	3	172458-74640	STAY, CHECK VALVE	1	1	1					
10	3	24311-000120	O-RING 1A P-12.0	1	1	1					
11	3	24315-000110	O-RING 1B P-11.0	1	1	1					
12	3	26450-050102	BOLT, M5X10	2	2	2					
13	3	26450-050182	BOLT 5* 18	2	2	2					
14	2	172456-74370	BOOM CHANGE-OVER	1	1	1					
15	3	172456-74240	BOOM SEC.ASSY	1	1	1					
16	4	172458-74150	CHECK VALVE	1	1	1					
17	4	172458-74160	SPRING, CHECK VALVE	1	1	1					
18	4	172458-74230	PACKING S 22	2	2	2					
19	4	172458-74240	COVER B1, PILOT	1	1	1					
20	4	172456-74250	SPOOL ASSY,BOOM	1	1	1					
21	4	172458-74250	COVER A1, PILOT	1	1	1					
22	4	172458-74260	SWP HEX,BOLT 5X20	4	4	4					
23	4	172458-74630	STAY, CHECK VALVE	1	1	1					
24	4	24315-000110	O-RING 1B P-11.0	1	1	1					
25	3	172456-74280	OVERLOAD 250/5	1	1	1					
26	2	172458-74720	PACKING G 4	2	2	2					
27	2	24311-000180	O-RING 1A P-18.0	1	1	1					
28	2	24311-000060	O-RING 1A P-6.0	2	2	2					

Fig.55. CONTROL VALVE(3/6)

CONTROL VALVE ASSY  
 172456-74101  
 Fig. 53 Ref. No. 1  
 INC. Fig. 53 Ref. No. 2~33.  
 Fig. 54 Ref. No. 1~28.  
 Fig. 55 Ref. No. 1~25.  
 Fig. 56 Ref. No. 1~30.  
 Fig. 57 Ref. No. 1~34.  
 Fig. 58 Ref. No. 1~25.

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

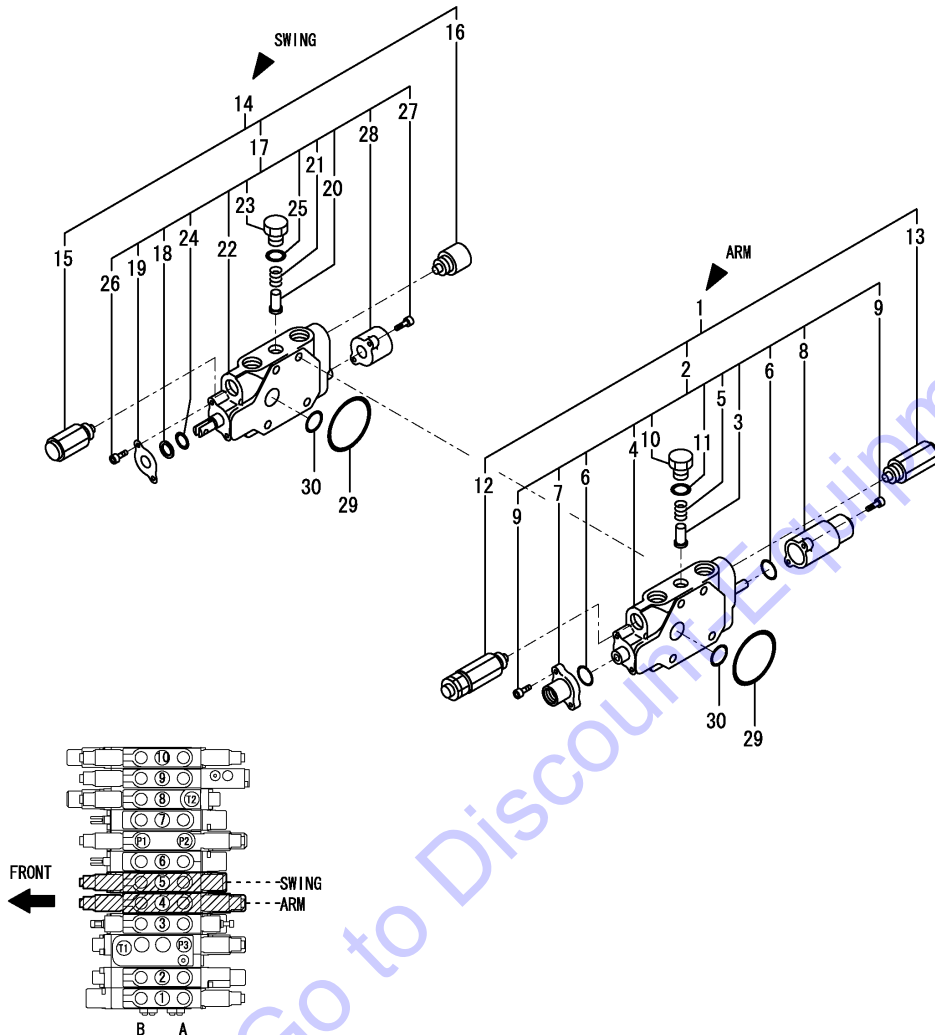


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74170	DRIVE L SEC. ASSY	1	1	1					
2	3	172458-74130	DUST WIPER	1	1	1					
3	3	172458-74140	BRACKET, OIL SEAL	1	1	1					
4	3	172458-74170	CAP,SPRING	1	1	1					
5	3	172456-74180	SPOOL ASSY,TRAVEL	1	1	1					
6	3	172458-74290	CHECK VALVE	1	1	1					
7	3	172458-74360	SPRING, CHECK VALVE	1	1	1					
8	3	172458-74460	PLUG GPM1/32	2	2	2					
9	3	172458-74640	STAY, CHECK VALVE	1	1	1					
10	3	24311-000120	O-RING 1A P-12.0	1	1	1					
11	3	24315-000110	O-RING 1B P-11.0	1	1	1					
12	3	26450-050102	BOLT, M5X10	2	2	2					
13	3	26450-050182	BOLT 5* 18	2	2	2					
14	2	172456-74350	INLET DIVISION	1	1	1					
15	3	172456-74400	VALVE, RELIEF 210/20	2	2	2					
16	3	172458-74520	INLET SEC. ASSY	1	1	1					
17	4	172458-74230	PACKING S 22	2	2	2					
18	4	172458-74240	COVER B1, PILOT	1	1	1					
19	4	172458-74260	SWP HEX.BOLT 5X20	4	4	4					
20	4	172458-74530	SEAT, SPRING	1	1	1					
21	4	172458-74540	SPRING,RETURN	1	1	1					
22	4	172458-74550	COVER A2, PILOT	1	1	1					
23	2	172458-74720	PACKING G 4	2	2	2					
24	2	24311-000060	O-RING 1A P-6.0	2	2	2					
25	2	24311-000180	O-RING 1A P-18.0	1	1	1					



Fig.56. CONTROL VALVE(4/6)

CONTROL VALVE ASSY  
172456-74101  
Fig. 53 Ref. No. 1  
INC. Fig. 53 Ref. No. 2~33.  
Fig. 54 Ref. No. 1~28.  
Fig. 55 Ref. No. 1~25.  
Fig. 56 Ref. No. 1~30.  
Fig. 57 Ref. No. 1~34.  
Fig. 58 Ref. No. 1~25.



(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

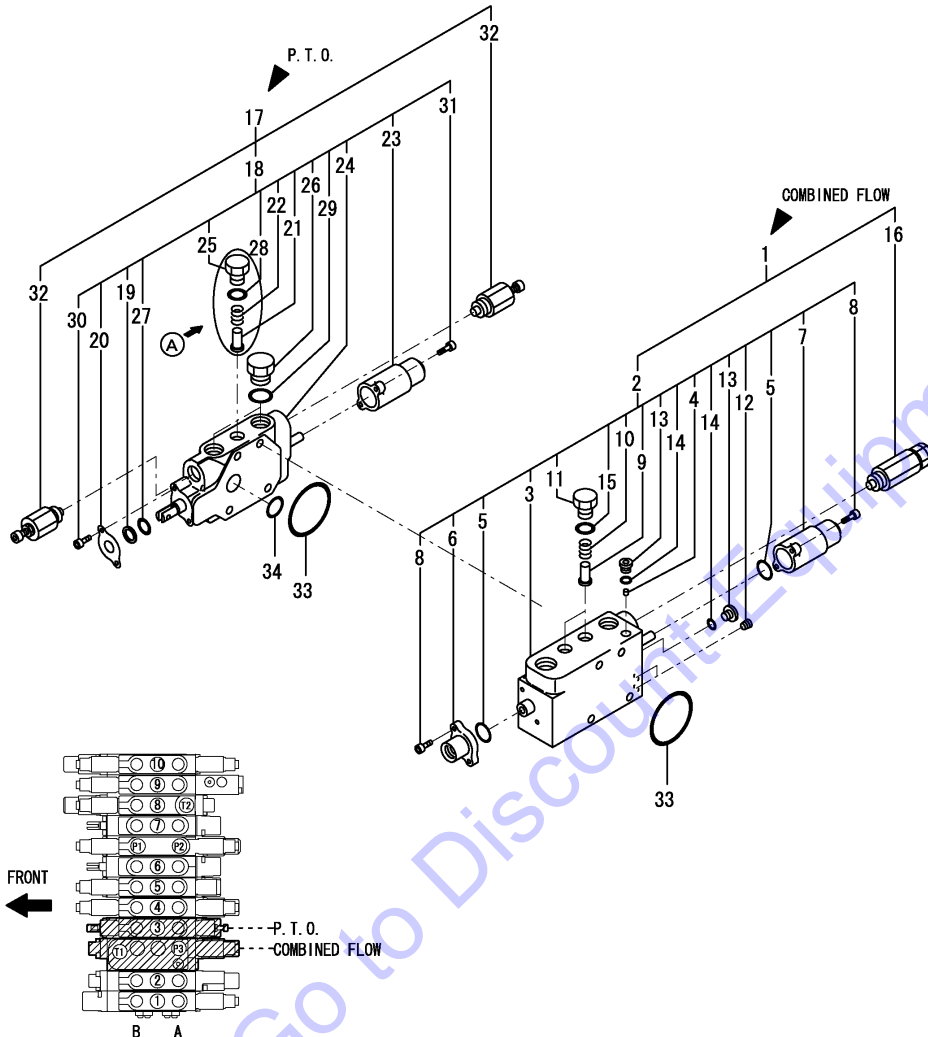
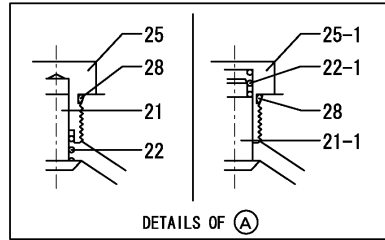
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74320	ARM CHANGE-OVER	1	1	1					
2	3	172456-74150	ARM SEC. ASSY	1	1	1					
3	4	172458-74150	CHECK VALVE	1	1	1					
4	4	172456-74160	SPOOL ASSY,BOOM	1	1	1					
5	4	172458-74160	SPRING, CHECK VALVE	1	1	1					
6	4	172458-74230	PACKING S 22	2	2	2					
7	4	172458-74240	COVER B1, PILOT	1	1	1					
8	4	172458-74250	COVER A1, PILOT	1	1	1					
9	4	172458-74260	SWP HEX.BOLT 5X20	4	4	4					
10	4	172458-74630	STAY, CHECK VALVE	1	1	1					
11	4	24315-000110	O-RING 1B P-11.0	1	1	1					
12	3	172447-74221	PORT RELIFE VALVE	1	1	1					
13	3	172447-74230	ANTI-CAVITATION	1	1	1					
14	2	172456-74330	SWING CHANGE-OVER	1	1	1					
15	3	172447-74230	ANTI-CAVITATION	1	1	1					
16	3	172456-74290	RELIEF VALVE PLUG	1	1	1					
17	3	172458-74420	SWING SEC. ASSY	1	1	1					
18	4	172458-74130	DUST WIPER	1	1	1					
19	4	172458-74140	BRACKET, OIL SEAL	1	1	1					
20	4	172458-74150	CHECK VALVE	1	1	1					
21	4	172458-74160	SPRING, CHECK VALVE	1	1	1					
22	4	172458-74430	SPOOL ASSY,SWING	1	1	1					
23	4	172458-74630	STAY, CHECK VALVE	1	1	1					
24	4	24311-000120	O-RING 1A P-12.0	1	1	1					
25	4	24315-000110	O-RING 1B P-11.0	1	1	1					
26	4	26450-050102	BOLT, M5X10	2	2	2					
27	4	26450-050182	BOLT 5* 18	2	2	2					
28	4	172458-74170	CAP,SPRING	1	1	1					
29	2	172458-74720	PACKING G 4	2	2	2					
30	2	24311-000180	O-RING 1A P-18.0	2	2	2					

Fig.57. CONTROL VALVE(5/6)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

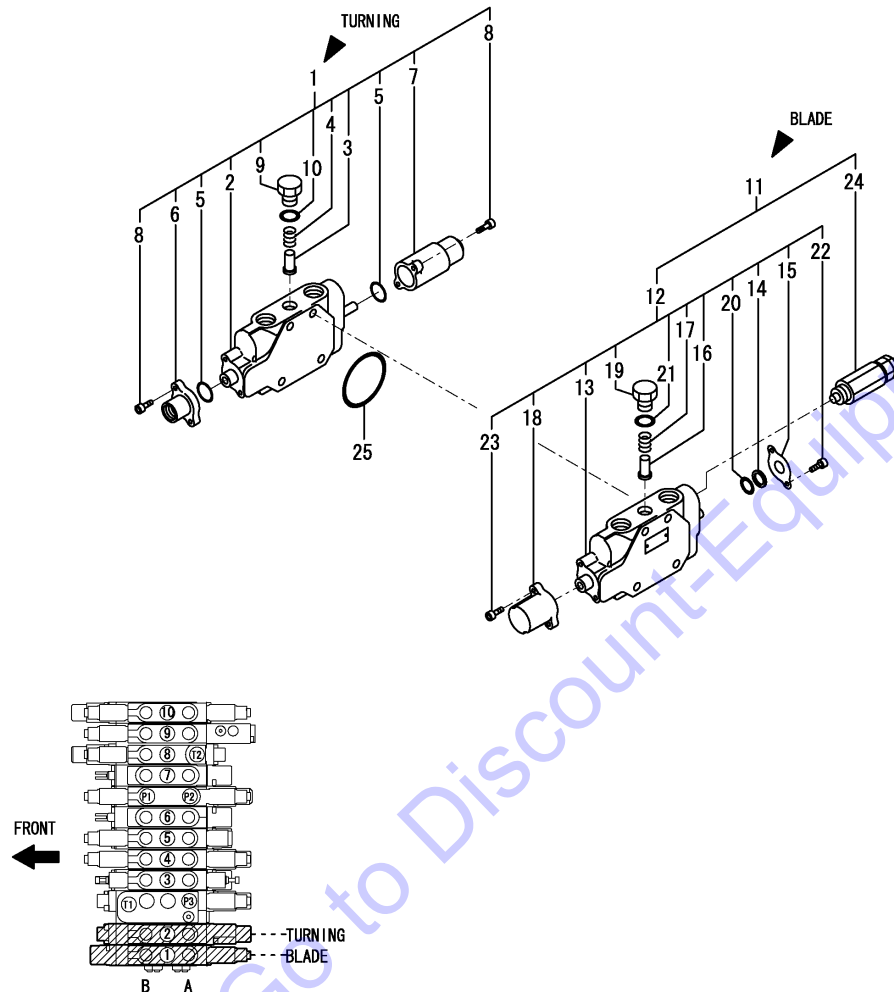
CONTROL VALVE ASSY  
172456-74101  
Fig. 53 Ref. No. 1  
INC. Fig. 53 Ref. No. 2~33.  
Fig. 54 Ref. No. 1~28.  
Fig. 55 Ref. No. 1~25.  
Fig. 56 Ref. No. 1~30.  
Fig. 57 Ref. No. 1~34.  
Fig. 58 Ref. No. 1~25.



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74310	COMBINED FLOW DIV.	1	1	1					
2	3	172456-74130	COMBINED FLOW SEC.	1	1	1					
3	4	172456-74140	SPOOL ASSY,JOIN	1	1	1					
4	4	172457-74190	RESTRICTION, M6-0.9	1	1	1					
5	4	172458-74230	PACKING S 22	2	2	2					
6	4	172458-74240	COVER B1, PILOT	1	1	1					
7	4	172458-74250	COVER A1, PILOT	1	1	1					
8	4	172458-74260	SWP HEX.BOLT 5X20	4	4	4					
9	4	172458-74290	CHECK VALVE	2	2	2					
10	4	172458-74360	SPRING, CHECK VALVE	2	2	2					
11	4	172458-74640	STAY, CHECK VALVE	2	2	2					
12	4	172458-74660	PLUG NPT1/16,SCREW	2	2	2					
13	4	172458-74670	PLUG,PF1/8	2	2	2					
14	4	24315-000080	O-RING 1B P-8.0	2	2	2					
15	4	24315-000110	O-RING 1B P-11.0	2	2	2					
16	3	172456-74270	VALVE, RELIEF 170/20	1	1	1					
17	2	172458-74780	PTO CHANGE-OVER	1	1	1					
17-1	2	172456-74460	PTO CHANGE-OVER	1	1	1					N
(A=M/#30865) (B=M/#30865) (C=M/#30865)											
18	3	172458-74380	PTO SEC. ASSY	1	1	1					
18-1	3	172456-74450	PTO SECTION ASSY	1	1	1					N
(A=M/#30865) (B=M/#30865) (C=M/#30865)											
19	4	172458-74130	DUST WIPER	1	1	1					
20	4	172458-74140	BRACKET, OIL SEAL	1	1	1					
21	4	172458-74150	CHECK VALVE	1	1	1					
21-1	4	172490-74310	CHECK VALVE	1	1	1					S
(A=M/#30865) (B=M/#30865) (C=M/#30865)											
22	4	172458-74160	SPRING, CHECK VALVE	1	1	1					
22-1	4	172490-74320	SPRING, CHECK VALVE	1	1	1					S
(A=M/#30865) (B=M/#30865) (C=M/#30865)											
23	4	172458-74170	CAP,SPRING	1	1	1					
24	4	172458-74390	SPOOL ASSY,PTO	1	1	1					
25	4	172458-74630	STAY, CHECK VALVE	1	1	1					
25-1	4	172490-74330	STAY, CHECK VALVE	1	1	1					S
(A=M/#30865) (B=M/#30865) (C=M/#30865)											
26	4	172458-74650	STAY, CHECK VALVE	2	2	2					
27	4	24311-000120	O-RING 1A P-12.0	1	1	1					
28	4	24315-000110	O-RING 1B P-11.0	1	1	1					
28-1	3	41851-000110	PACKING, 11.0	1	1	1					N
(A=M35460) (B=M35460) (C=M35460)											
29	4	24315-000140	O-RING 1B P-14.0	2	2	2					
29-1	4	41851-000140	O RING P 14.0 HNBR	2	2	2					N
(A=M35460) (B=M35460) (C=M35460)											
30	4	26450-050102	BOLT, M5X10	2	2	2					
31	4	26450-050182	BOLT 5* 18	2	2	2					
32	3	172458-74740	SHUT OFF VALVE	2	2	2					
33	2	172458-74720	PACKING G 4	2	2	2					
34	2	24311-000180	O-RING 1A P-18.0	1	1	1					

Fig.58. CONTROL VALVE(6/6)

CONTROL VALVE ASSY  
172456-74101  
Fig. 53 Ref. No. 1  
INC. Fig. 53 Ref. No. 2~33.  
Fig. 54 Ref. No. 1~28.  
Fig. 55 Ref. No. 1~25.  
Fig. 56 Ref. No. 1~30.  
Fig. 57 Ref. No. 1~34.  
Fig. 58 Ref. No. 1~25.



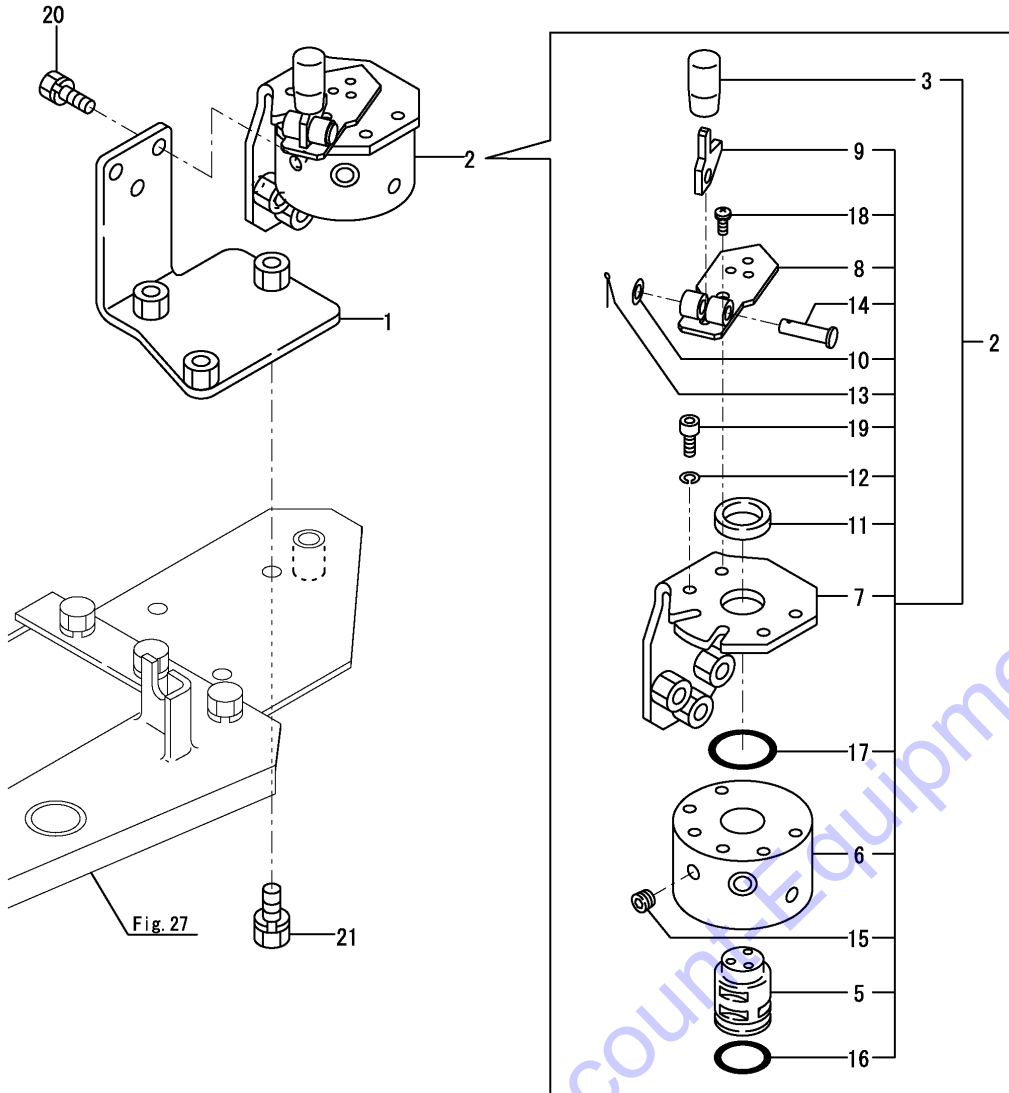
(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74110	TURNING SEC. ASSY	1	1	1					
2	3	172456-74120	SPOOL ASSY,TURNING	1	1	1					
3	3	172458-74150	CHECK VALVE	1	1	1					
4	3	172458-74160	SPRING, CHECK VALVE	1	1	1					
5	3	172458-74230	PACKING S 22	2	2	2					
6	3	172458-74240	COVER B1, PILOT	1	1	1					
7	3	172458-74250	COVER A1, PILOT	1	1	1					
8	3	172458-74260	SWP HEX.BOLT 5X20	4	4	4					
9	3	172458-74630	STAY, CHECK VALVE	1	1	1					
10	3	24315-000110	O-RING 1B P-11.0	1	1	1					
11	2	172458-74750	BLADE CHANGE-OVER	1	1	1					
12	3	172458-74110	BLADE SEC. ASSY	1	1	1					
13	4	172458-74120	SPOOL ASSY,BLADE	1	1	1					
14	4	172458-74130	DUST WIPER	1	1	1					
15	4	172458-74140	BRACKET, OIL SEAL	1	1	1					
16	4	172458-74150	CHECK VALVE	1	1	1					
17	4	172458-74160	SPRING, CHECK VALVE	1	1	1					
18	4	172458-74170	CAP,SPRING	1	1	1					
19	4	172458-74630	STAY, CHECK VALVE	1	1	1					
20	4	24311-000120	O-RING 1A P-12.0	1	1	1					
21	4	24315-000110	O-RING 1B P-11.0	1	1	1					
22	4	26450-050102	BOLT, M5X10	2	2	2					
23	4	26450-050182	BOLT 5* 18	2	2	2					
24	3	172458-74700	OVERLOAD 100	1	1	1					
25	2	172458-74720	PACKING G 4	1	1	1					

Fig.59. 2-WAY VALVE

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=



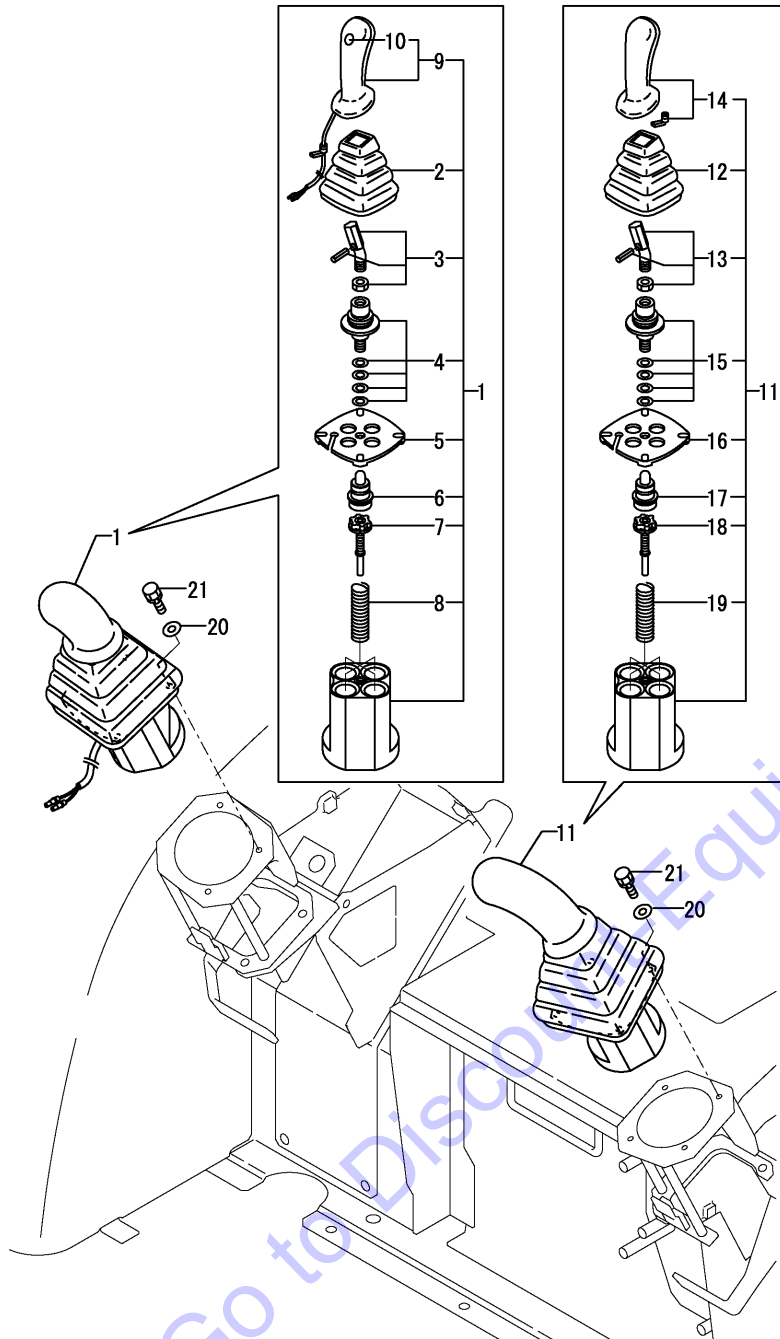
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-74200	BRACKET,2-WAY	1	1	1					
2	1	172A36-74690	VALVE ASSY,2WAY	1	1	1					W 1
		(A=M/#32860) (B=M/#32860) (C=M/#32860)									
3	2	172157-58830	KNOB 6.5X18X35	1	1	1					
5	3	172437-74711	SHAFT	1	1	1					
6	3	172437-74720	BLOCK,VALVE	1	1	1					
7	3	172437-74732	STAY ASSY	1	1	1					
8	3	172A36-74750	LEVER	1	1	1					
9	3	172A36-74780	PLATE,LOCK	1	1	1					
10	3	22117-080000	WASHER 8	1	1	1					
11	3	22137-240000	WASHER 24,POLISHED	1	1	1					
12	3	22217-060000	SPRING WASHER 6	4	4	4					
13	3	22417-200160	COTTER PIN 2.0X16	1	1	1					
14	3	22487-080300	PIN 8X 30	1	1	1					
15	3	23871-010000	PLUG PT1/8,SCREW	4	4	4					
16	3	24311-000250	O-RING 1A P-25.0	1	1	1					
17	3	24311-000320	O-RING 1A P-32.0	1	1	1					
18	3	26022-050122	SCREW M 5X 12	3	3	3					
19	3	26450-060162	BOLT M 6X 16	4	4	4					
19A	1	172437-03610	LABEL	1	1	1					2
19B	1	172437-03620	LABEL	1	1	1					2
20	1	26013-080252	BOLT M 8X 25	3	3	3					
21	1	26013-100202	BOLT W/WASHER M10X20	3	3	3					

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.19A & 19B.  
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.60. REMOTE CONTROL VALVE

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

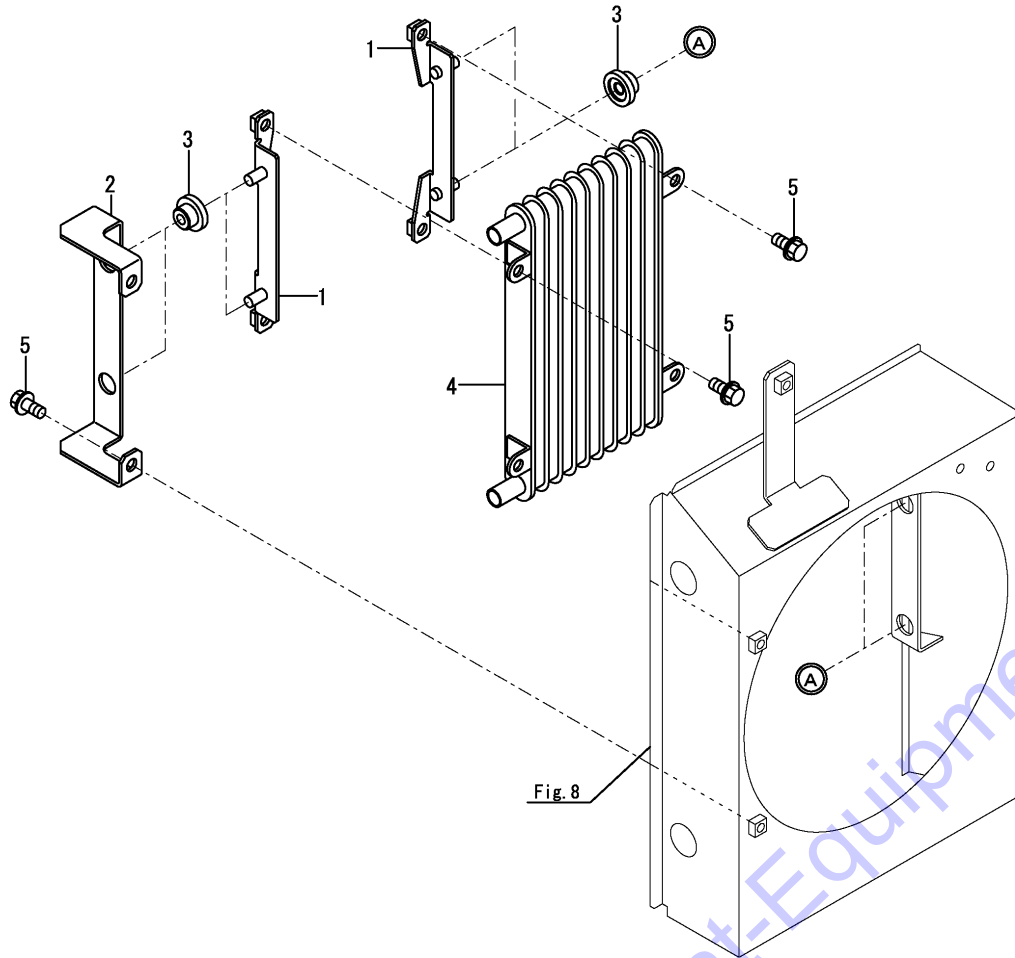


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172463-74511	VALVE ASSY, R.US	1	1	1					
2	2	172441-74030	BELLOWS	1	1	1					
3	2	172441-74040	COMMAND KIT	1	1	1					
4	2	172463-74530	CARDAN KIT	1	1	1					
5	2	172463-74540	RETAINING PLATE	1	1	1					
6	2	172463-74551	PLUNGER KIT	1	1	1					
7	2	172463-74561	REGULATION KIT	4	4	4					
8	2	172463-74570	SPRING KIT	1	1	1					
9	2	172463-74590	HANDLE R	1	1	1					
10	3	172463-74580	PUSH BUTTON	1	1	1					
11	1	172463-74521	VALVE ASSY, L.US	1	1	1					
12	2	172441-74030	BELLOWS	1	1	1					
13	2	172441-74040	COMMAND KIT	1	1	1					
14	2	172441-74050	HANDLE L	1	1	1					
15	2	172463-74530	CARDAN KIT	1	1	1					
16	2	172463-74540	RETAINING PLATE	1	1	1					
17	2	172463-74551	PLUNGER KIT	1	1	1					
18	2	172463-74561	REGULATION KIT	4	4	4					
19	2	172463-74570	SPRING KIT	1	1	1					
20	1	22137-060000	WASHER 6, POLISHED	8	8	8					
20-1	1	22137-060000	WASHER 6, POLISHED	6	6	6					K
		(A=M/#30501) (B=M/#30501) (C=M/#30501)									
21	1	26013-060202	BOLT M 6X 20	8	8	8					
21-1	1	26013-060202	BOLT M 6X 20	6	6	6					K
		(A=M/#30501) (B=M/#30501) (C=M/#30501)									

Fig.61. OIL COOLER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

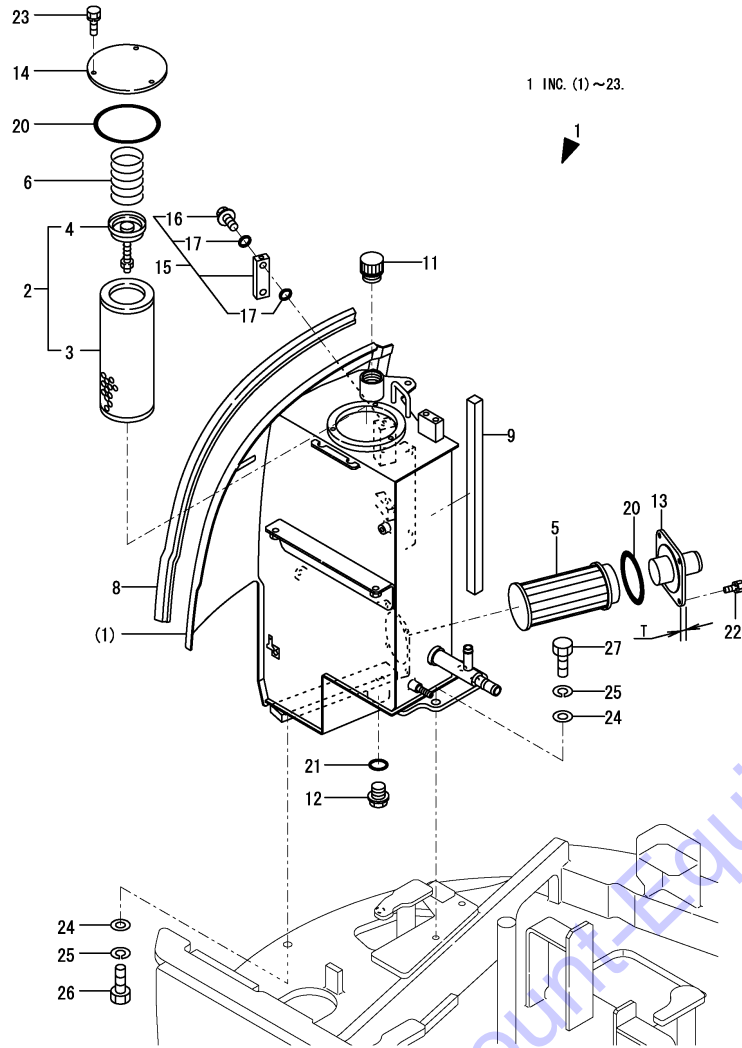


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172490-13160	BRACKET ASSY, O/C A	2	2	2					
2	1	172A23-13210	BRACKET,O/C	1	1	1					
3	1	172446-13330	ABSOBER,SHOCK	4	4	4					
4	1	198448-48810	COOLER ASSY, LUB OIL	1	1	1					
5	1	26106-100202	BOLT M10X 20 PLATED	6	6	6					

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Fig.62. HYD.OIL TANK

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)  
 (D)=  
 (E)=  
 (F)=

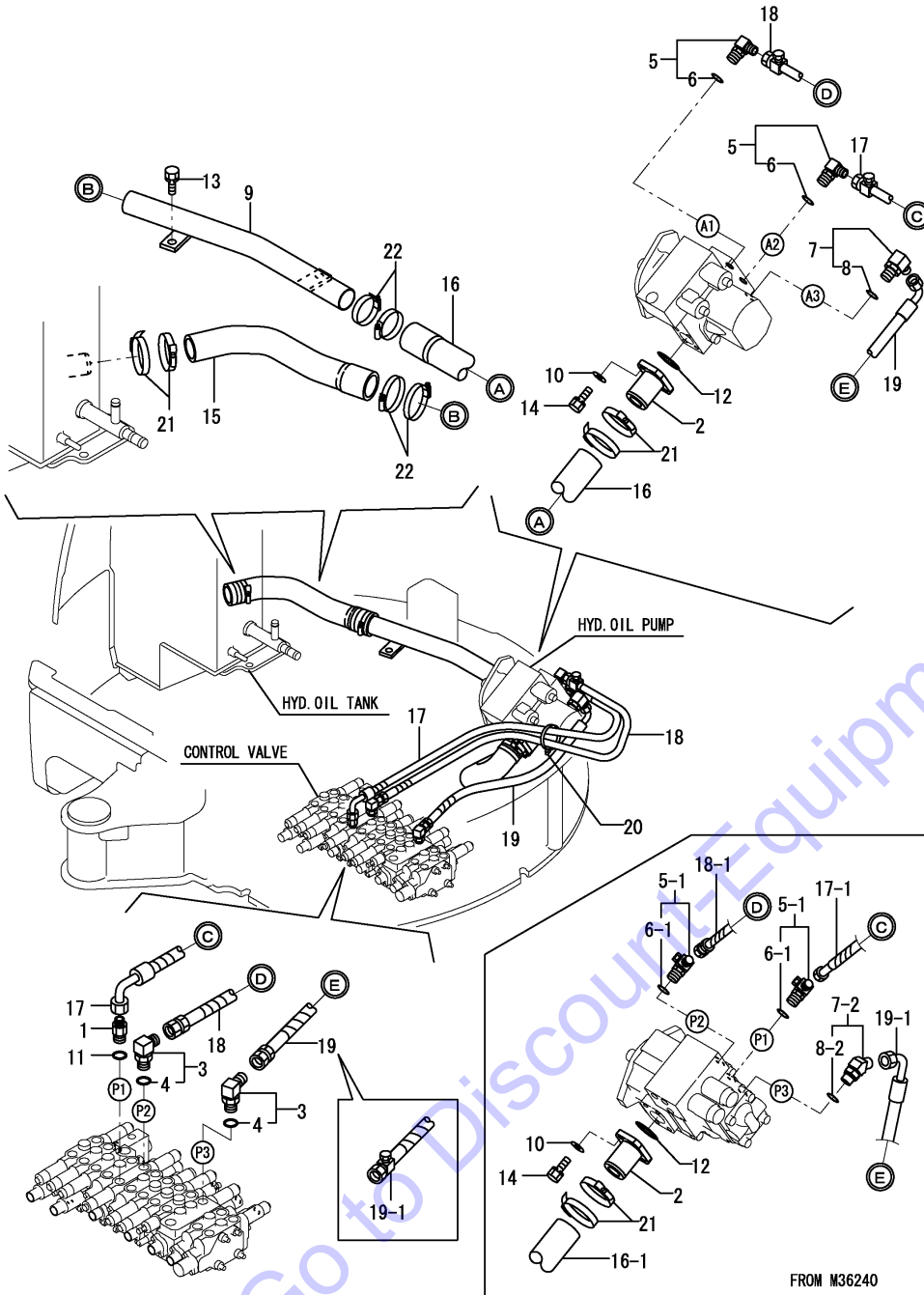


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A23-75100-1	RESERVOIR ASSY	1	1	1					1
1-1	1	772A23-75100-3	RESERVER,ASSY (2J)	1	1	1					S 1
		(A=M34345) (B=M34345) (C=M34345)									
1-2	1	772A23-75100-Y	RESERVER,ASSY	1	1	1					S 1
		(A=M45501) (B=M45501) (C=M45501)									
2	2	172175-73700	FILTER ASSY, RETURN	1	1	1					
3	3	172175-73710	ELEMENT, FILTER	1	1	1					
4	3	172141-73770	VALVE ASSY, BYPASS	1	1	1					
5	2	172146-73730	FILTER, SUCTION	1	1	1					
6	2	933152-02710	SPRING, CLUTCH	1	1	1					
8	3	172168-65750	RUBBER	1	1	1					
9	3	172458-75070	SEAL	1	1	1					
11	2	172446-75250	CAP, RESERVOIR	1	1	1					
12	2	172455-75330	PLUG, DRAIN	1	1	1					
13	2	172183-75410	FLANGE, SUCTION	1	1	1					
13-1	2	172A46-75500	FLANGE, SUCTION	1	1	1					F 4
		(A=M35946) (B=M35946) (C=M35946)									
14	2	172460-75410-1	COVER, TANK	1	1	1					2
14-1	2	172460-75410-5	COVER A, HYD. TANK (2J)	1	1	1					S 2
		(A=M34345) (B=M34345) (C=M34345)									
14-2	2	172460-75410-Y	COVER A, HYD. TANK	1	1	1					S 2
		(A=M45501) (B=M45501) (C=M45501)									
15	2	172447-75600	GAUGE ASSY	1	1	1					
16	3	172455-75290	BOLT	2	2	2					
17	3	172455-75300	O-RING	4	4	4					
20	2	24321-001050	O-RING	2	2	2					
21	2	24341-000300	O-RING	1	1	1					
22	2	26013-080162	BOLT	4	4	4					
22-1	2	26014-080252	BOLT	4	4	4					S
		(A=M35946) (B=M35946) (C=M35946)									
23	2	26013-080202	BOLT	3	3	3					
23-1	2	26014-080202	BOLT	3	3	3					N
		(A=M35398) (B=M35398) (C=M35398)									
24	1	22137-140000	WASHER	4	4	4					
25	1	22217-140000	WASHER, SPRING	4	4	4					
26	1	26116-140352	BOLT	2	2	2					
27	1	26116-140352	BOLT	2	2	2					
27-1	1	26116-140302	BOLT	2	2	2					N
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
28A	1	172469-03121	LABEL, MODEL	1	1	1					3
28B	1	172437-03321	LABEL, HYD. OIL TANK	1	1	1					3
28B-1	1	172437-03322	LABEL, RESEVOIR	1	1	1					N 3
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
28C	1	114110-07760	LABEL, FUEL CAUTION	1	1	1					
28C-1	1	114110-07761	LABEL, FUEL OIL CAUT	1	1	1					N
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
29A	1	172463-03290	LABEL, HYD. OIL	1	1	1					3

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.28A,28B & 28C.  
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.29A.  
 (3)LABELS ARE NOT ILLUSTRATED.  
 (4)T=REF.NO.13 6MM, NO.13-1 12MM. INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.22-1.

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

(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	JOINT	1	1	1					
2	1	172422-76100	FLANGE	1	1	1					
3	1	172142-76181	JOINT 90-3/8 ASSY	2	2	2					
4	2	24315-000140	O-RING 1B P-14.0	2	2	2					
5	1	172142-76181	JOINT 90-3/8 ASSY	2	2	2					
5-1	1	172A23-76301	ELBOW 3/8-1/2 ASSY	2	2	2					S
		(A=M36240) (B=M36240) (C=M36240)									
6	2	24315-000140	O-RING 1B P-14.0	2	2	2					
6-1	2	41851-000180	O RING	2	2	2					S
		(A=M36240) (B=M36240) (C=M36240)									
7	1	172A23-76300	ELBOW ASSY, 3/8-1/2	1	1	1					
7-1	1	172A23-76301	ELBOW 3/8-1/2 ASSY	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
7-2	1	172644-76161	ADJUST ELBOW 45	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
8	2	24315-000180	O-RING 1B P-18.0	1	1	1					
8-1	2	41851-000180	O RING	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
8-2	2	24315-000140	O-RING 1B P-14.0	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
9	1	172487-76410	TUBE, SUCTION	1	1	1					
10	1	22117-100000	WASHER 10	4	4	4					
11	1	24315-000140	O-RING 1B P-14.0	1	1	1					
11-1	1	41851-000140	O RING P 14.0 HNBR	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
12	1	24321-000400	O-RING 1A G-40.0	1	1	1					
13	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					
13-1	1	26014-100252	BOLT 10X25 W/PLW+SPW	2	2	2					N
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
14	1	26013-100252	BOLT W/WASHER M10X25	4	4	4					
15	1	172A23-78080	HOSE	1	1	1					
16	1	172458-78091	HOSE	1	1	1					
16-1	1	172A23-78090	HOSE 42.5 55.2	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
17	1	172A23-78110	HOSE	1	1	1					
17-1	1	172A23-78111	HOSE H206BC072S	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
17-2	1	172A23-78112	HOSE H206BC077S	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
18	1	172456-78120	HOSE	1	1	1					
18-1	1	172A23-78120	HOSE H206BB071S	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
18-2	1	172A23-78121	HOSE H206BB074S	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
19	1	172A23-78130	HOSE	1	1	1					
19-1	1	172A23-78131	HOSE H206CZ066S	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
20	1	172122-79930	CLAMP B	1	1	1					
21	1	23001-060000	CLIP, HOSE	4	4	4					
22	1	23001-070000	CLIP	4	4	4					
22-1	1	23001-060000	CLIP, HOSE	4	4	4					N

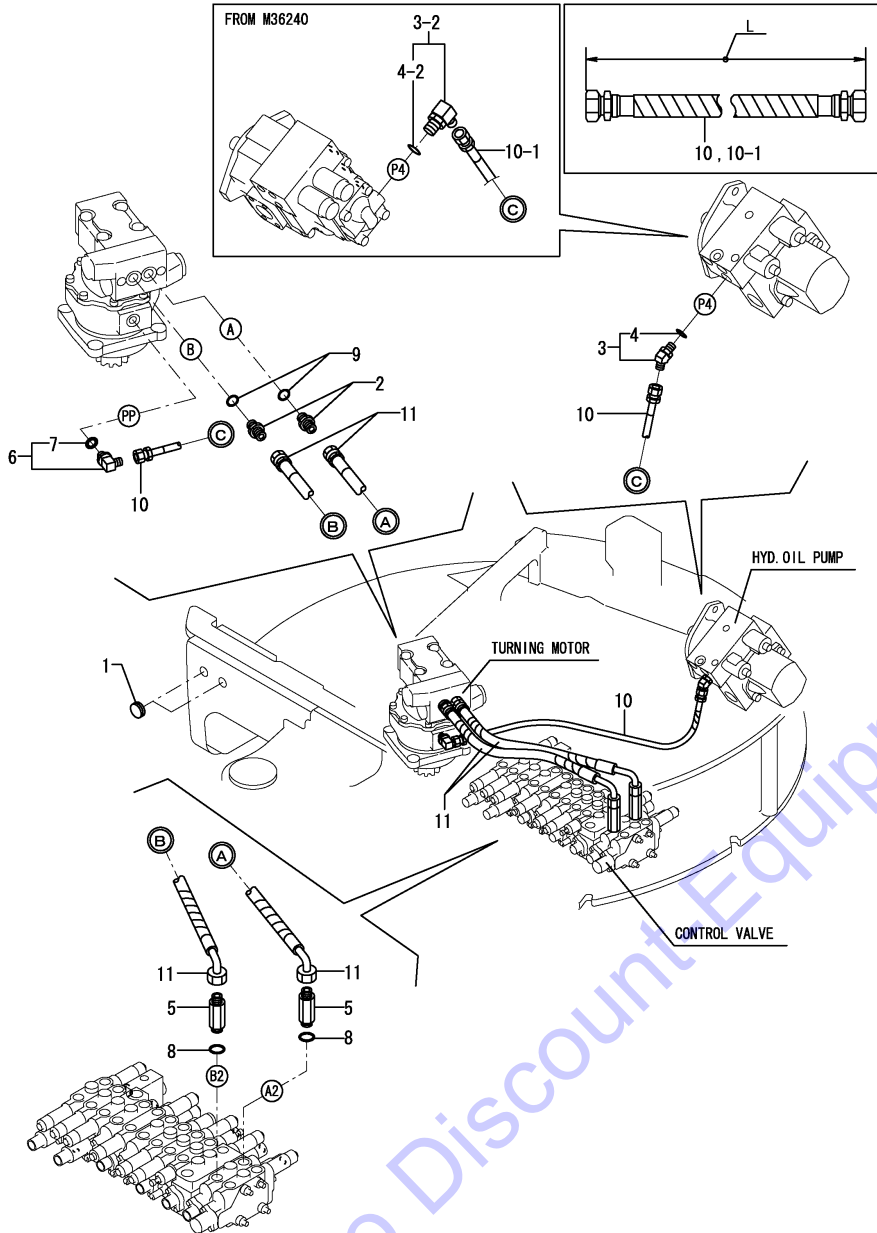
N:Old  $\xrightarrow{Yes}$  New, Q:Old  $\xrightarrow{No}$  New, R:Old  $\xrightarrow{Yes}$  New, S:Old  $\xrightarrow{No}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
 ++ CONTINUE ++  
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Fig.64. HYD.OIL PIPING(PUMP, CONTROL VALVE - TURNING

(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=



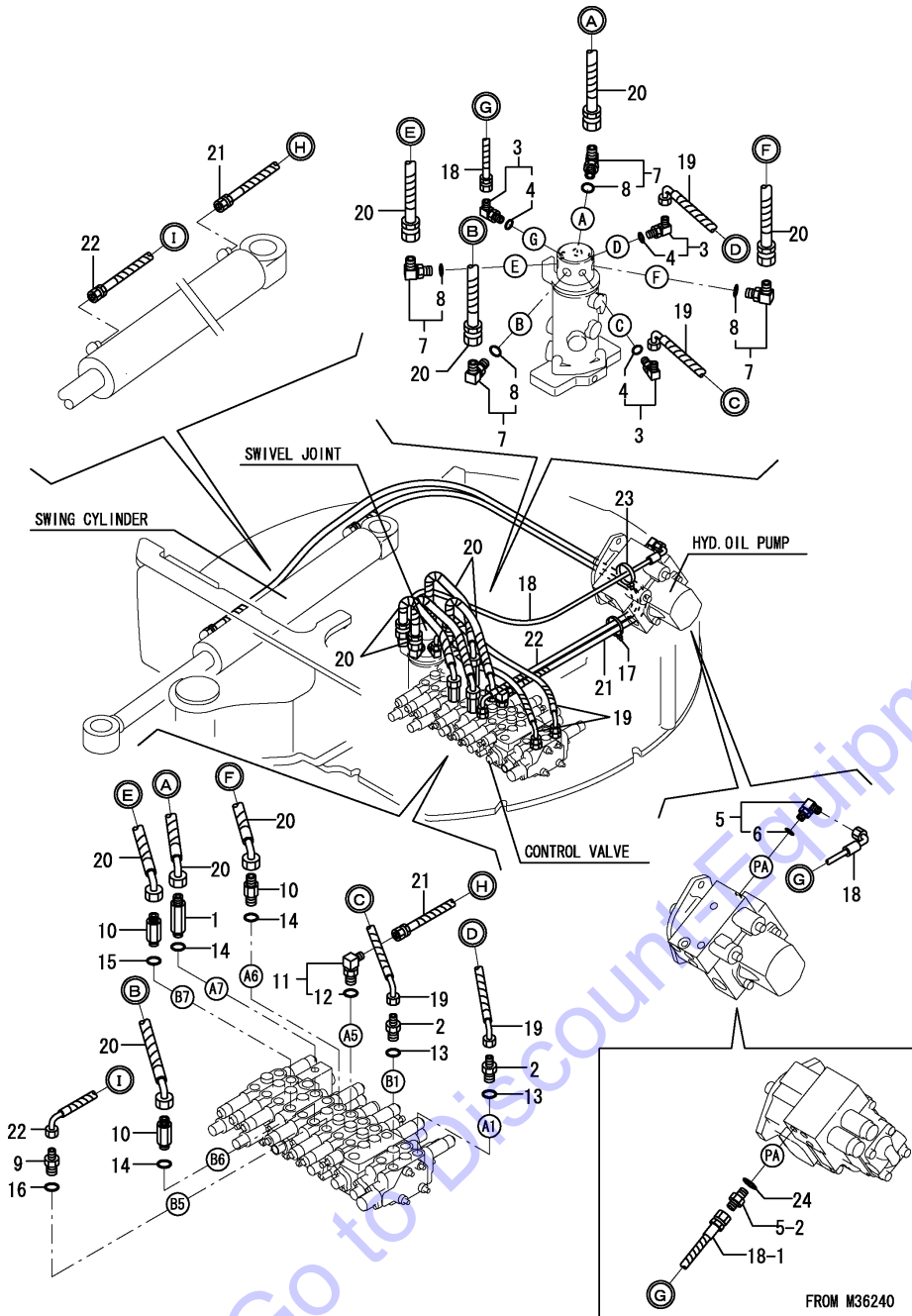
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172312-17260	GROMMET 22X2.3	2	2	2					
2	1	172730-75141	JOINT	2	2	2					
3	1	172173-76101	CONNECTOR PF1/4-45	1	1	1					
3-1	1	172173-76102	CONNECTOR PF1/4-45	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
3-2	1	172141-76920	CONNECTOR 3/8-1/4L	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
4	2	24315-000110	O-RING 1B P-11.0	1	1	1					
4-1	2	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
4-2	2	24315-000140	O-RING 1B P-14.0	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
5	1	172162-76131	ADAPTER	2	2	2					
6	1	172141-76180	CONNECTOR	1	1	1					
6-1	1	172141-76181	CONNECTOR ASSY, 02FF	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
7	2	24315-000110	O-RING 1B P-11.0	1	1	1					
7-1	2	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
8	1	24315-000140	O-RING 1B P-14.0	2	2	2					
8-1	1	41851-000140	O RING P 14.0 HNBR	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
9	1	24315-000140	O-RING 1B P-14.0	2	2	2					
9-1	1	41851-000140	O RING P 14.0 HNBR	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
10	1	172456-78140	HOSE	1	1	1					
10-1	1	172423-78940	HOSE	1	1	1					S 1
		(A=M36240) (B=M36240) (C=M36240)									
11	1	172422-78210	HOSE	2	2	2					

Remarks  
 (1)REF.NO.10 L=700MM,  
 NO.10-1 L=1000MM.

Fig.65. HYD.OIL PIPING(CONTROL V. - SWIVEL JOINT, SWING CYLINDER)

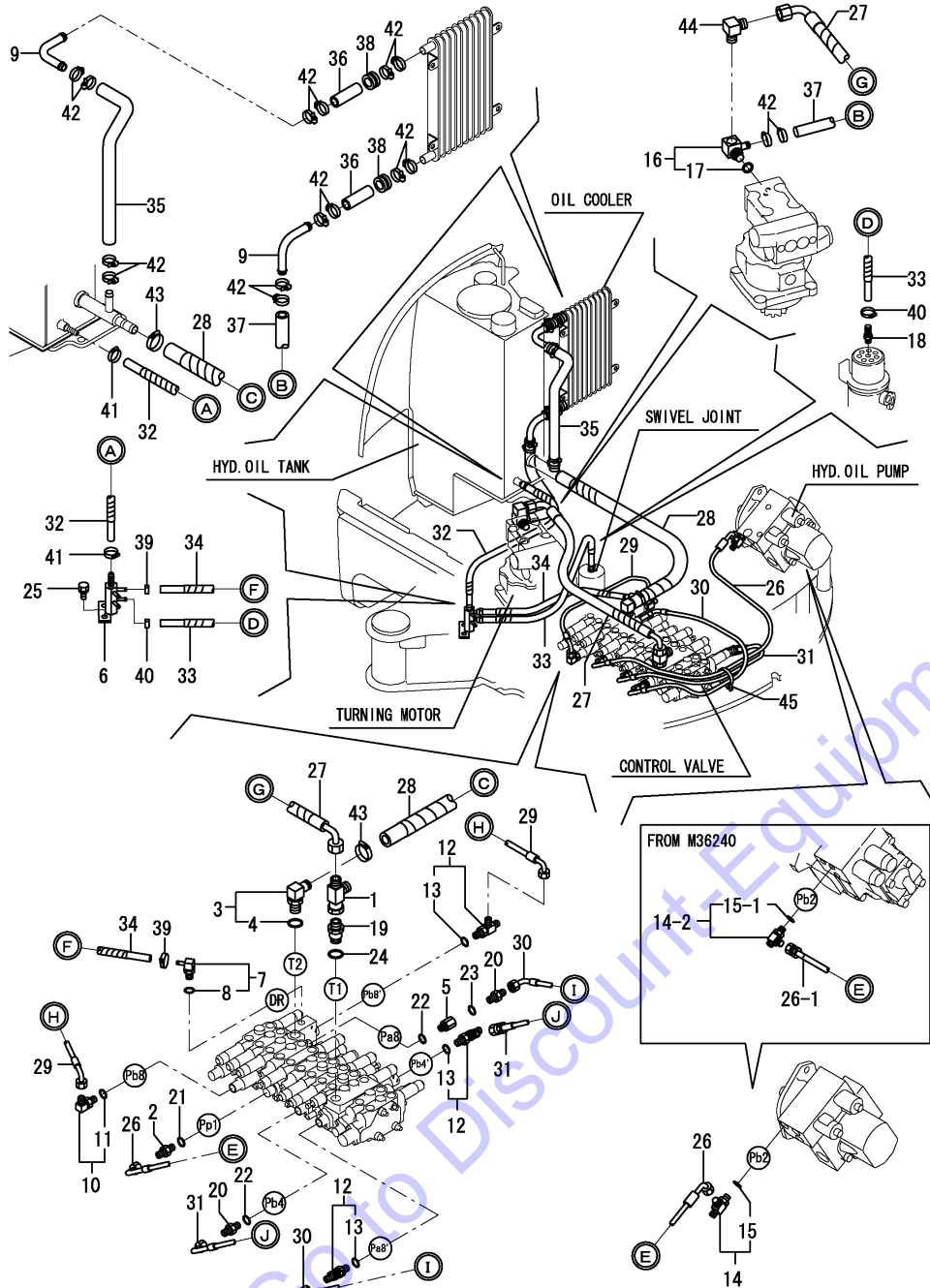
(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172162-76131	ADAPTER	1	1	1					
2	1	172422-76130	CONNECTOR	2	2	2					
3	1	172141-76180	CONNECTOR	3	3	3					
3-1	1	172141-76181	CONNECTOR ASSY, 02FF	3	3	3					N
		(A=M35241) (B=M35241) (C=M35241)									
4	2	24315-000110	O-RING 1B P-11.0	3	3	3					
4-1	2	41851-000110	PACKING, 11.0	3	3	3					N
		(A=M35241) (B=M35241) (C=M35241)									
5	1	172141-76180	CONNECTOR	1	1	1					
5-1	1	172141-76181	CONNECTOR ASSY, 02FF	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
6	2	24315-000110	O-RING 1B P-11.0	1	1	1					
6-1	2	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
6-2	2	41851-000110	PACKING, 11.0	1	1	1					Z
		(A=M36240) (B=M36240) (C=M36240)									
7	1	172142-76181	JOINT 90-3/8 ASSY	4	4	4					
8	2	24315-000140	O-RING 1B P-14.0	4	4	4					
9	1	172147-76260	CONNECTOR	1	1	1					
10	1	172116-76381	ADAPTER 64	3	3	3					
11	1	172141-76920	CONNECTOR 3/8-1/4L	1	1	1					
12	2	24315-000140	O-RING 1B P-14.0	1	1	1					
13	1	24315-000140	O-RING 1B P-14.0	2	2	2					
13-1	1	41851-000140	O RING P 14.0 HNBR	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
14	1	24315-000140	O-RING 1B P-14.0	3	3	3					
14-1	1	41851-000140	O RING P 14.0 HNBR	3	3	3					N
		(A=M35460) (B=M35460) (C=M35460)									
15	1	24315-000140	O-RING 1B P-14.0	1	1	1					
15-1	1	41851-000140	O RING P 14.0 HNBR	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
16	1	24315-000140	O-RING 1B P-14.0	1	1	1					
16-1	1	41851-000140	O RING P 14.0 HNBR	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
17	1	172126-11510	BAND 300	1	1	1					
18	1	172456-78150	HOSE	1	1	1					
18-1	1	172A45-78600	HOSE	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
19	1	172456-78170	HOSE	2	2	2					
20	1	172422-78200	HOSE	4	4	4					
21	1	172456-78200	HOSE	1	1	1					
22	1	172456-78210	HOSE	1	1	1					
23	1	172122-79930	CLAMP B	1	1	1					
24	1	41851-000110	PACKING, 11.0	1	1	1					W
		(A=M36240) (B=M36240) (C=M36240)									

Fig.66. HYD.OIL PIPING(RETURN)



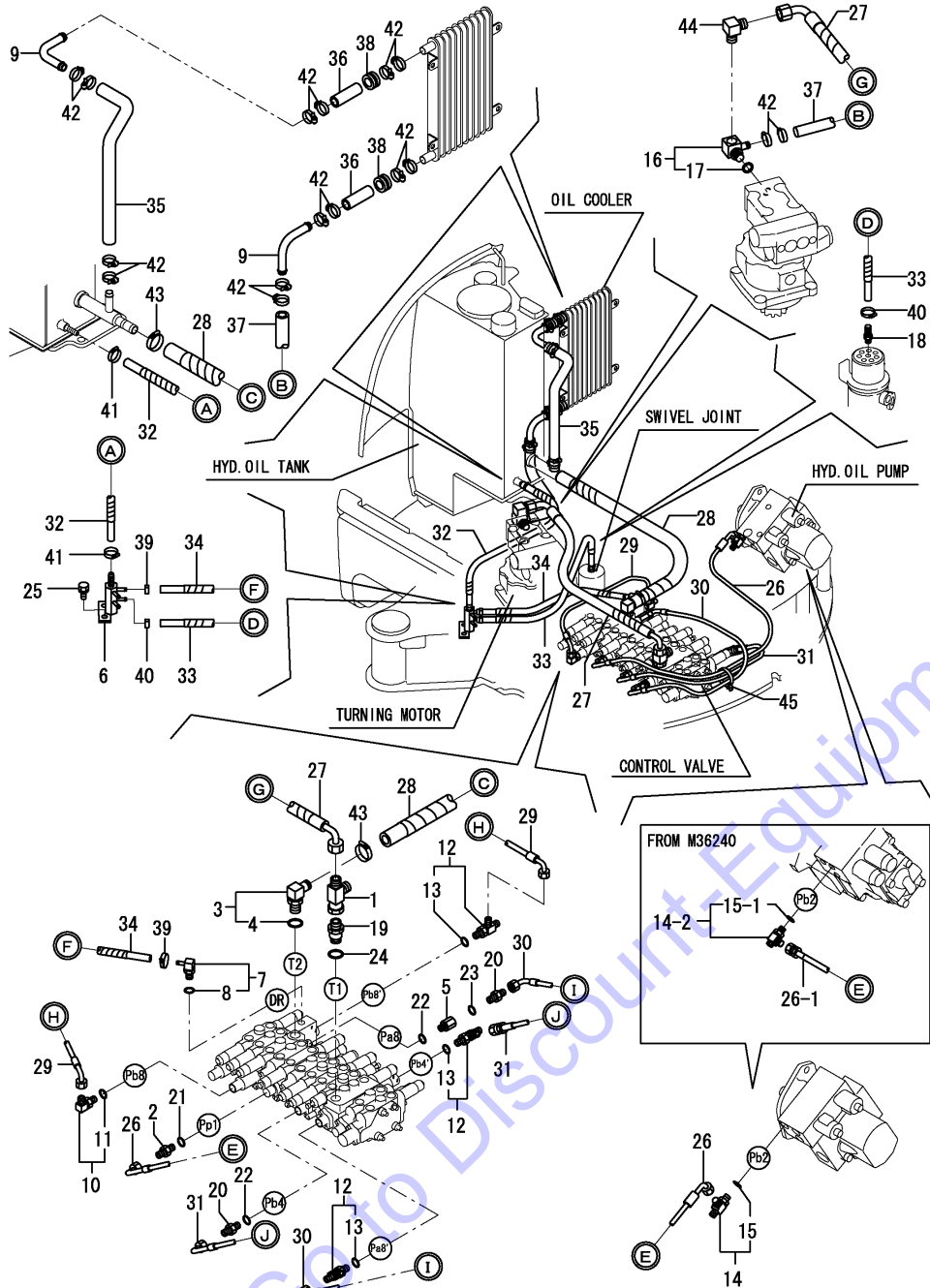
(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-76110	CONNECTOR 3-1/2	1	1	1					
2	1	172123-76121	JOINT PF1/4	1	1	1					
3	1	172164-76131	ELBOW	1	1	1					
4	2	24315-000180	O-RING 1B P-18.0	1	1	1					
5	1	172422-76140	CONNECTOR	1	1	1					
6	1	172444-76150	JOINT	1	1	1					
7	1	172458-76150	NIPPLE PF1/4,ELBOW	1	1	1					
8	2	24315-000110	O-RING 1B P-11.0	1	1	1					
9	1	172490-76150	PIPE	2	2	2					
10	1	172141-76180	CONNECTOR	1	1	1					
10-1	1	172141-76181	CONNECTOR ASSY, 02FF	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
11	2	24315-000110	O-RING 1B P-11.0	1	1	1					
11-1	2	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
12	1	172162-76180	JOINT 3-1/4 COMPL.	3	3	3					
12-1	1	172162-76181	JOINT 3-1/4 ASSY	3	3	3					N
		(A=M35241) (B=M35241) (C=M35241)									
13	2	24315-000110	O-RING 1B P-11.0	3	3	3					
13-1	2	41851-000110	PACKING, 11.0	3	3	3					N
		(A=M35241) (B=M35241) (C=M35241)									
14	1	172162-76180	JOINT 3-1/4 COMPL.	1	1	1					
14-1	1	172162-76181	JOINT 3-1/4 ASSY	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
14-2	1	172187-76211	ELBOW	1	1	1					S
		(A=M36240) (B=M36240) (C=M36240)									
14-3	1	172A23-76210	ELBOW,1/4-1/4	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
15	2	24315-000110	O-RING 1B P-11.0	1	1	1					
15-1	2	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
16	1	172A23-76200	ELBOW, 90 1/2-3/8	1	1	1					
17	2	24315-000140	O-RING 1B P-14.0	1	1	1					
17-1	2	41851-000140	O RING P 14.0 HNBR	1	1	1					N
		(A=M35241) (B=M35241) (C=M35241)									
18	1	172141-76220	NIPPLE	1	1	1					
19	1	172147-76271	CONNECTOR	1	1	1					
20	1	172164-76330	JOINT PF1/4-0.7	2	2	2					
21	1	24315-000110	O-RING 1B P-11.0	1	1	1					
21-1	1	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
22	1	24315-000110	O-RING 1B P-11.0	2	2	2					
22-1	1	41851-000110	PACKING, 11.0	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
23	1	24315-000110	O-RING 1B P-11.0	1	1	1					
23-1	1	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
24	1	24315-000180	O-RING 1B P-18.0	1	1	1					
24-1	1	41851-000180	O RING	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
25	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					

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.66. HYD.OIL PIPING(RETURN)

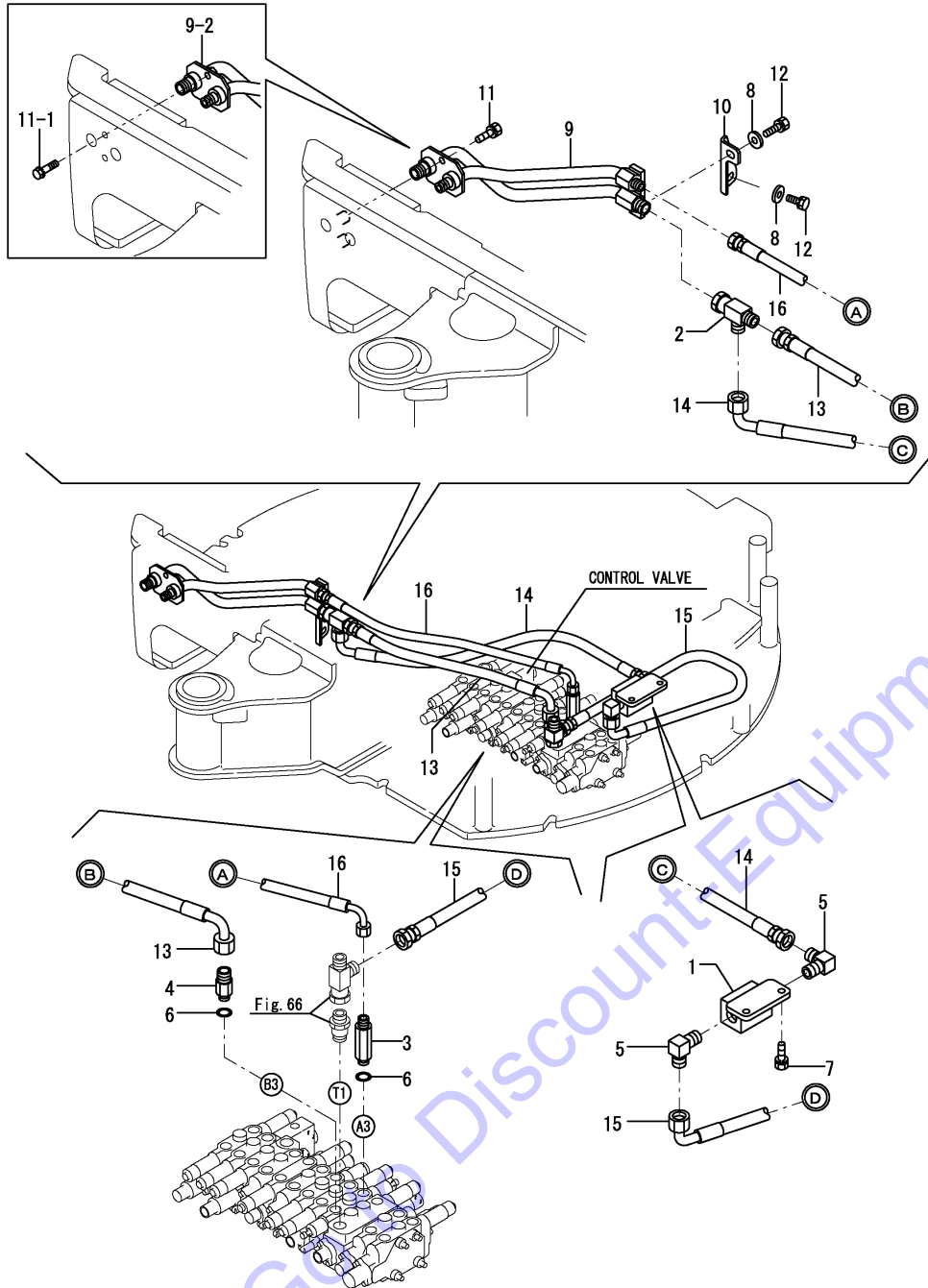


(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
26	1	172456-78160	HOSE	1	1	1					
26-1	1	172456-78161	HOSE F403BC091S	1	1	1					N
		(A=M45001) (B=M45001) (C=M45001)									
27	1	172456-78260	HOSE	1	1	1					
28	1	172456-78270	HOSE	1	1	1					
29	1	172458-78290	HOSE	1	1	1					
30	1	172458-78300	HOSE	1	1	1					
31	1	172458-78310	HOSE	1	1	1					
32	1	172165-78412	HOSE	1	1	1					
33	1	172458-78530	HOSE	1	1	1					
34	1	172458-78540	HOSE	1	1	1					
35	1	172A23-78840	HOSE	1	1	1					
36	1	172A23-78850	HOSE	2	2	2					
37	1	172A23-78860	HOSE	1	1	1					
38	1	29311-252000	GROMMET 25.0X2.0	2	2	2					
39	1	23000-013000	CLAMP 13	2	2	2					
40	1	23000-013000	CLAMP 13	2	2	2					
41	1	23001-016000	HOSE CLAMP 16	2	2	2					
42	1	23001-022000	HOSE CLAMP 22	16	16	16					
43	1	23001-035000	HOSE CLAMP 35	2	2	2					
44	1	23393-040000	JOINT 90RGI 1/2	1	1	1					
45	1	172122-79930	CLAMP B	1	1	1					

Fig.67. HYD.OIL PIPING(P.T.O. : FRAME END)



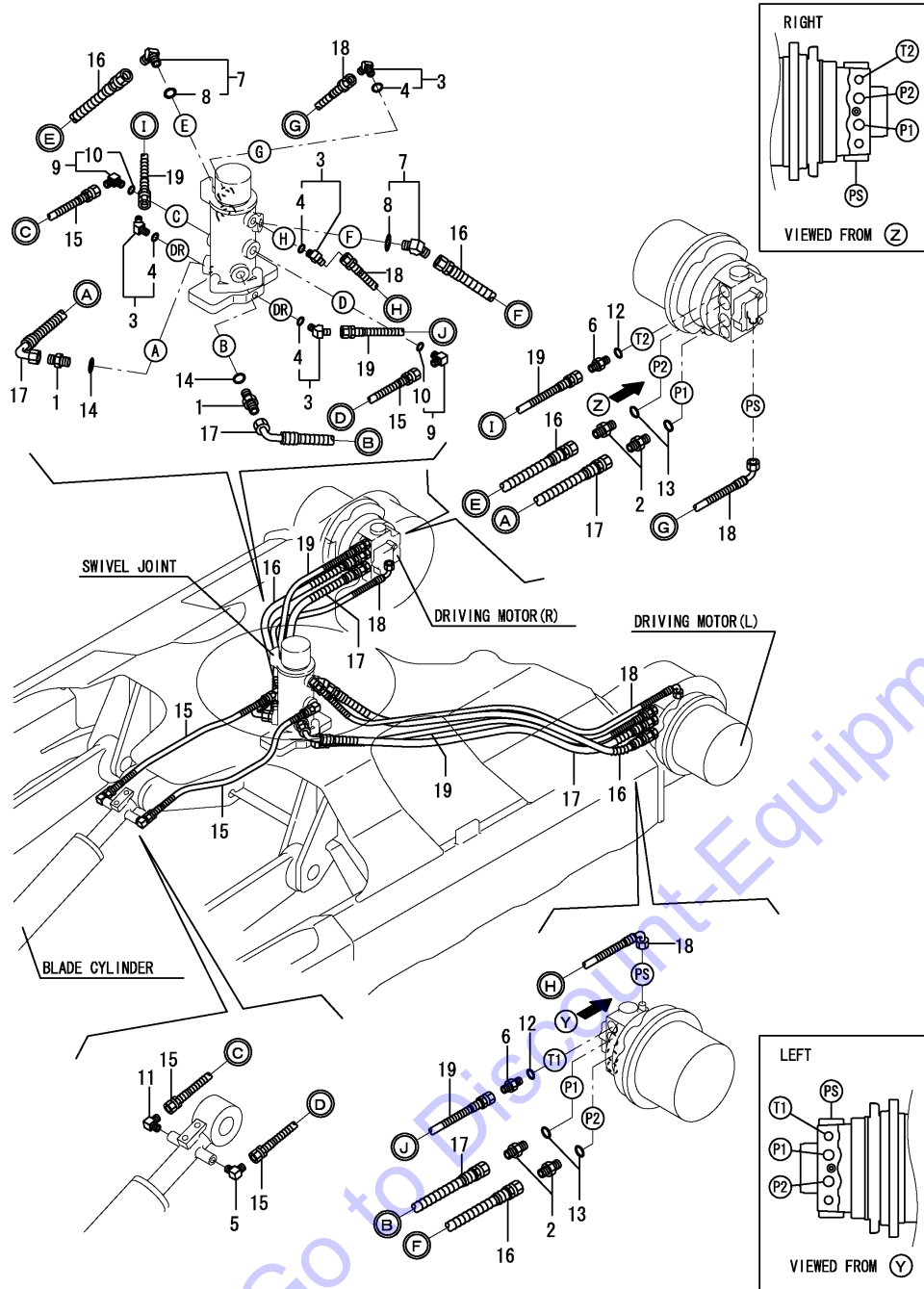
OCS10-G44703 67. HYD.OIL PIPING(P.T.O. : FRAME END)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820	VALVE, STOP	1	1	1					
1-1	1	172183-74821-4	STOPPER VALVE 08 ASS	1	1	1					R
		(A=M/#32563) (B=M/#32563) (C=M/#32563)									
1-2	1	172183-74822	STOPPER VALVE 08 ASS	1	1	1					N
		(A=M36241) (B=M36241) (C=M36241)									
2	1	172469-76110	CONNECTOR 3-1/2	1	1	1					
3	1	172162-76131	ADAPTER	1	1	1					
4	1	172422-76180	CONNECTOR	1	1	1					
5	1	23393-04000	JOINT 90RGI 1/2	2	2	2					
6	1	24315-000140	O-RING 1B P-14.0	2	2	2					
6-1	1	41851-000140	O RING P 14.0 HNBR	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
7	1	26013-100252	BOLT W/WASHER M10X25	2	2	2					
8	1	172110-36010	COLLAR	2	2	2					
9	1	172456-76800-2	TUBE	1	1	1					
9-1	1	172456-76800-3	TUBE	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
9-2	1	172456-76801	TUBE ASSY, F-END	1	1	1					S
		(A=M45001) (B=M45001) (C=M45001)									
10	1	172456-76880-2	PLATE, MOUNT	1	1	1					
10-1	1	172456-76880-3	PLATE, MOUNT	1	1	1					S
		(A=M/#32643) (B=M/#32643) (C=M/#32643)									
11	1	26013-100202	BOLT W/WASHER M10X20	2	2	2					
11-1	1	26013-100352	BOLT M10X 35	2	2	2					S
		(A=M45001) (B=M45001) (C=M45001)									
12	1	26013-100252	BOLT W/WASHER M10X25	2	2	2					
13	1	172469-78550	HOSE	1	1	1					
14	1	172469-78560	HOSE	1	1	1					
15	1	172469-78570	HOSE	1	1	1					
16	1	172456-78970	HOSE	1	1	1					

Fig.68. HYD.OIL PIPING(TRACK FRAME)



(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

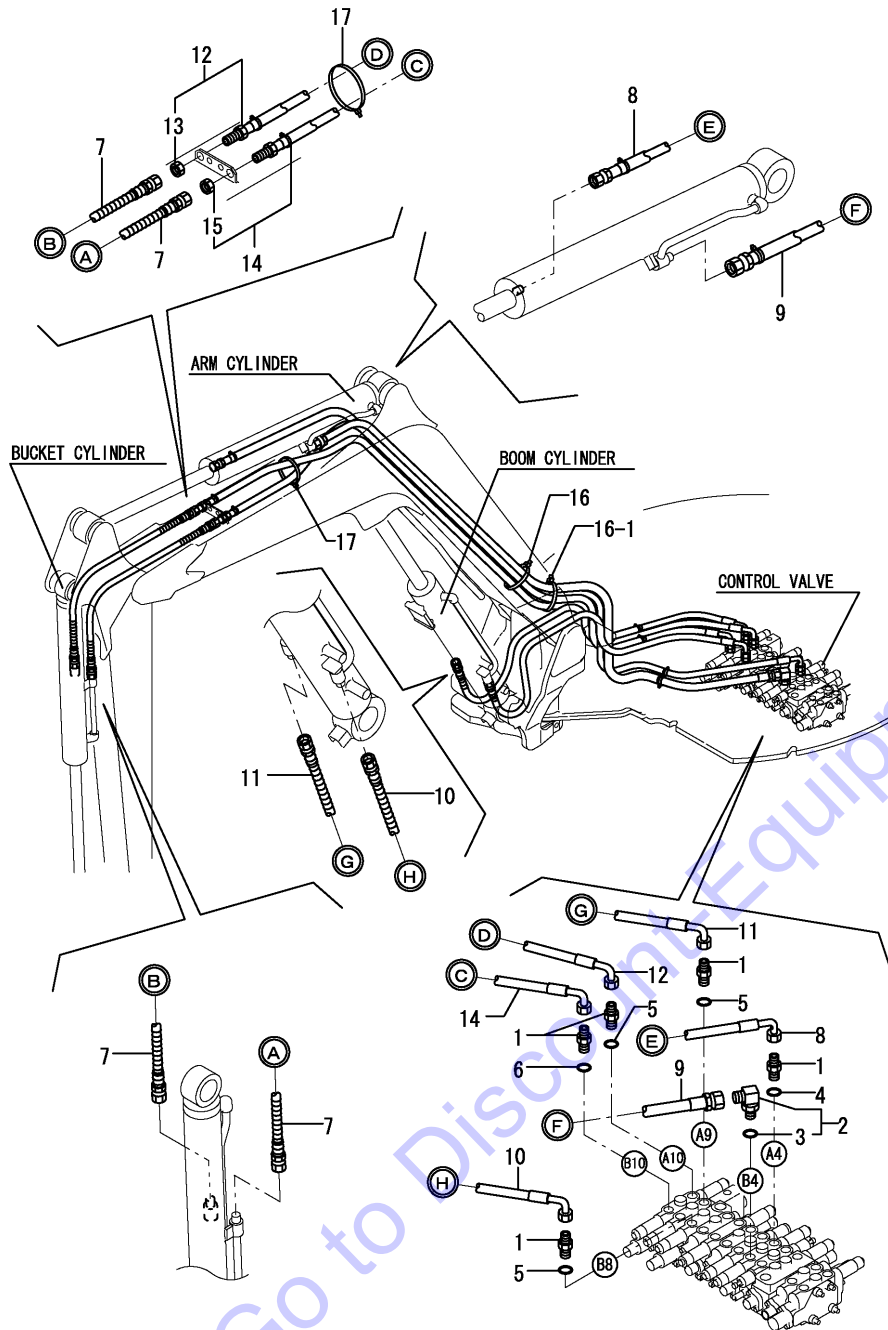
(D)=  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	JOINT	2	2	2					
2	1	172730-75141	JOINT	4	4	4					
3	1	172173-76101	CONNECTOR PF1/4-45	4	4	4					
3-1	1	172173-76102	CONNECTOR PF1/4-45	4	4	4					N
		(A=M35241) (B=M35241) (C=M35241)									
4	2	24315-000110	O-RING 1B P-11.0	4	4	4					
4-1	2	41851-000110	PACKING, 11.0	4	4	4					N
		(A=M35241) (B=M35241) (C=M35241)									
5	1	172421-76100	CONNECTOR	1	1	1					
6	1	172123-76121	JOINT PF1/4	2	2	2					
7	1	172644-76161	ADJUST ELBOW 45	2	2	2					
8	2	24315-000140	O-RING 1B P-14.0	2	2	2					
9	1	172141-76180	CONNECTOR	2	2	2					
9-1	1	172141-76181	CONNECTOR ASSY, 02FF	2	2	2					N
		(A=M35241) (B=M35241) (C=M35241)									
10	2	24315-000110	O-RING 1B P-11.0	2	2	2					
10-1	2	41851-000110	PACKING, 11.0	2	2	2					N
		(A=M35241) (B=M35241) (C=M35241)									
11	1	23393-020000	JOINT 90RG1/4	1	1	1					
12	1	24315-000110	O-RING 1B P-11.0	2	2	2					
12-1	1	41851-000110	PACKING, 11.0	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
13	1	24315-000140	O-RING 1B P-14.0	4	4	4					
13-1	1	41851-000140	O RING P 14.0 HNBR	4	4	4					N
		(A=M35460) (B=M35460) (C=M35460)									
14	1	24315-000140	O-RING 1B P-14.0	2	2	2					
14-1	1	41851-000140	O RING P 14.0 HNBR	2	2	2					N
		(A=M35460) (B=M35460) (C=M35460)									
15	1	172421-78120	HOSE	2	2	2					
16	1	172421-78131	HOSE	2	2	2					
17	1	172456-78291	HOSE	2	2	2					
18	1	172456-78301	HOSE	2	2	2					
19	1	172456-78312	HOSE	2	2	2					

Fig.69. HYD.OIL PIPING(CONTROL V. - BOOM CYL., ARM CYL., BUCKET CYL.)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



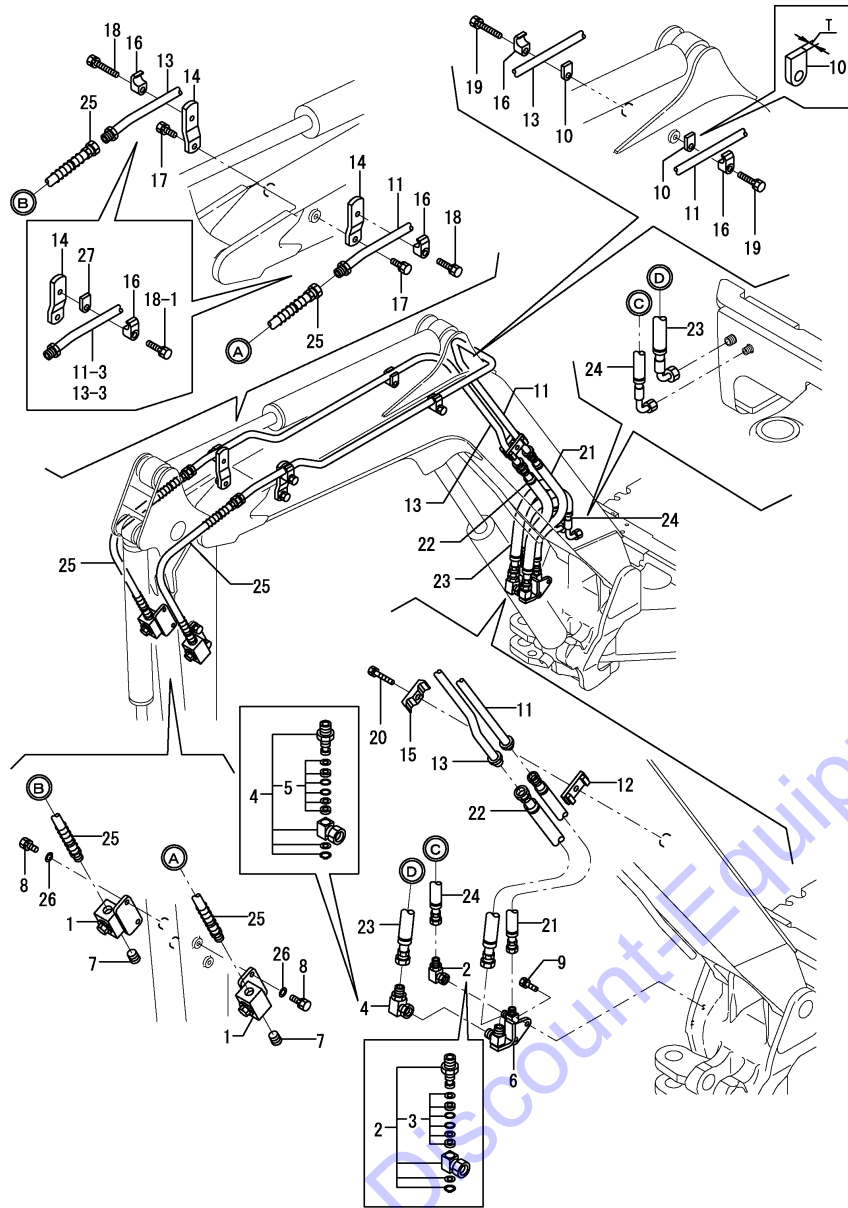
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	JOINT	5	5	5					
2	1	172142-76181	JOINT 90-3/8 ASSY	1	1	1					
3	2	24315-000140	O-RING 1B P-14.0	1	1	1					
4	1	24315-000140	O-RING 1B P-14.0	1	1	1					
4-1	1	41851-000140	O RING P 14.0 HNBR (A=M35460) (B=M35460) (C=M35460)	1	1	1					N
5	1	24315-000140	O-RING 1B P-14.0	3	3	3					
5-1	1	41851-000140	O RING P 14.0 HNBR (A=M35460) (B=M35460) (C=M35460)	3	3	3					N
6	1	24315-000140	O-RING 1B P-14.0	1	1	1					
6-1	1	41851-000140	O RING P 14.0 HNBR (A=M35460) (B=M35460) (C=M35460)	1	1	1					N
7	1	172957-78150	HOSE	2	2	2					
8	1	172456-78180	HOSE	1	1	1					
9	1	172456-78190	HOSE	1	1	1					
9-1	1	172456-78191	HOSE H206BB232K (A=M36292) (B=M36292) (C=M36292)	1	1	1					N
10	1	172456-78220	HOSE	1	1	1					
11	1	172456-78230	HOSE	1	1	1					
12	1	172456-78241	HOSE	1	1	1					
13	2	172455-79770	LOCK NUT 3/8	1	1	1					
14	1	172456-78251	HOSE	1	1	1					
15	2	172455-79770	LOCK NUT 3/8	1	1	1					
16	1	172122-79930	CLAMP B	1	1	1					
16-1	1	172122-79930	CLAMP B (A=MXXXXX) (B=MXXXXX) (C=MXXXXX)	2	2	2					K
17	1	172122-79930	CLAMP B	1	1	1					



Fig.70. HYD.OIL PIPING(P.T.O. : ARM END)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



Remarks

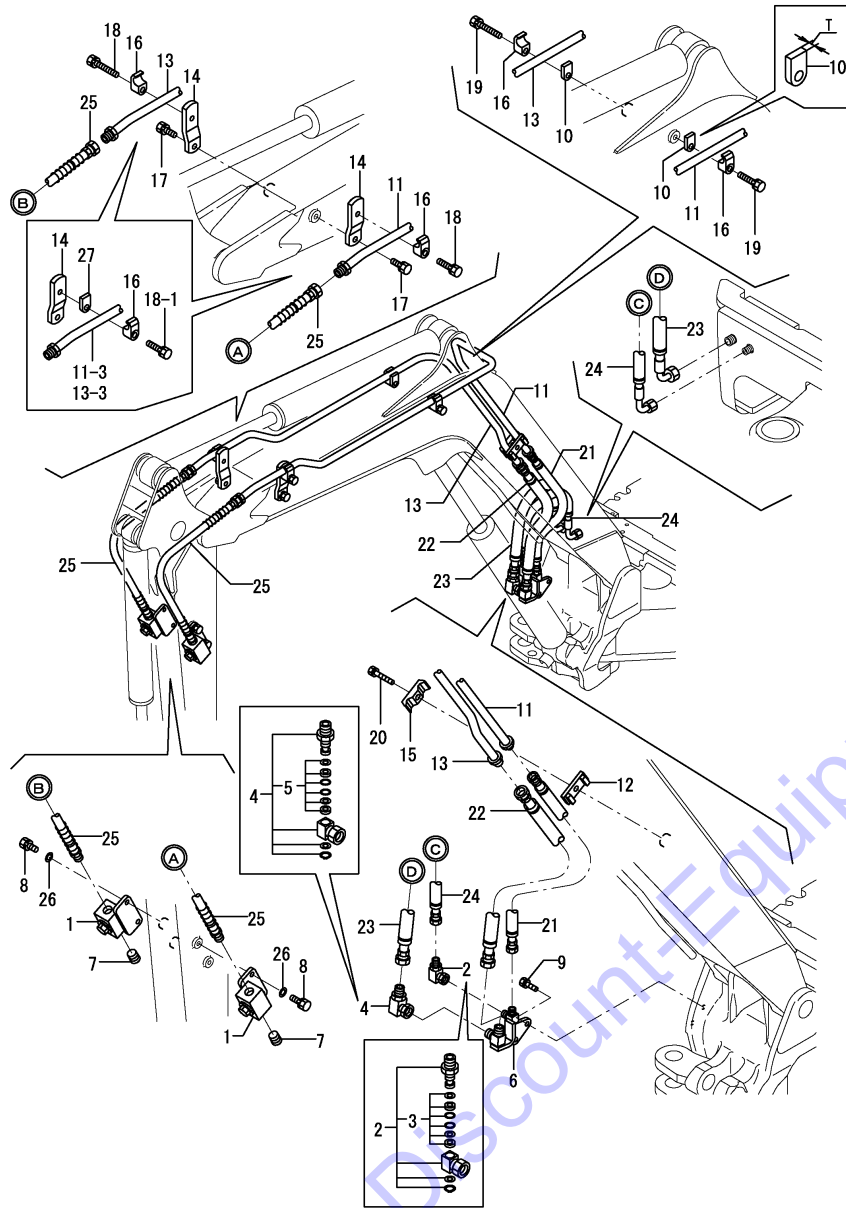
- (1) Interchangeable by simultaneous replacement with Ref.No.10-3,18-1,19-1,27.
- (2) T=Ref.No.10-2:9mm, No.10-3:16mm.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820-5	VALVE, STOP	2	2	2					
1-1	1	172183-74821	VALVE, STOP	2	2	2					R
		(A=M/#32563) (B=M/#32563) (C=M/#32563)									
1-2	1	172183-74821-3	VALVE, STOP	2	2	2					S
		(A=M34345) (B=M34345) (C=M34345)									
1-3	1	172183-74822-3	VALVE, STOP (2J)	2	2	2					N
		(A=M36241) (B=M36241) (C=M36241)									
1-4	1	172183-74822-Y	VALVE, STOP	2	2	2					S
		(A=M45501) (B=M45501) (C=M45501)									
2	1	172456-76250	JOINT 3/8,SWIVEL	1	1	1					
3	2	172456-76260	SEAL SET 3/8	1	1	1					
4	1	172142-76270	JOINT, SWIVEL	1	1	1					
5	2	172142-77040	SEAL SET	1	1	1					
6	1	172456-76700	JOINT,P.T.O	1	1	1					
7	1	23871-040000	PLUG	2	2	2					
8	1	26013-100252	BOLT	4	4	4					
9	1	26013-100252	BOLT	2	2	2					
10	1	172183-76250-1	PLATE	2	2	2					
10-1	1	172183-76250-2	PLATE, SPACER	2	2	2					S
		(A=M34345) (B=M34345) (C=M34345)									
10-2	1	172183-76250-Y	PLATE, SPACER	2	2	2					S
		(A=M45501) (B=M45501) (C=M45501)									
10-3	1	172187-76690-Y	PLATE	2	2	2					S 2
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
11	1	172456-76600-1	TUBE, PTO	1	1	1					
11-1	1	172456-76600-2	TUBE ASSY, PTO L(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
11-2	1	172456-76600-Y	TUBE ASSY, PTO L	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
11-3	1	172456-76601-Y	TUBE ASSY,PTO L	1	1	1					F 1
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
12	1	172175-76640-1	SPACER ASSY	1	1	1					
12-1	1	172175-76640-2	SPACER ASSY(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
12-2	1	172175-76640-Y	SPACER ASSY	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
13	1	172456-76650-1	TUBE, PTO	1	1	1					
13-1	1	172456-76650-2	TUBE ASSY, PTO R(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
13-2	1	172456-76650-Y	TUBE ASSY, PTO R	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
13-3	1	172456-76651-Y	TUBE ASSY,PTO R	1	1	1					F 1
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
14	1	172458-76680-1	STAY	2	2	2					
14-1	1	172458-76680-2	STAY (YELOWN:2J)	2	2	2					S
		(A=M34345) (B=M34345) (C=M34345)									
14-2	1	172458-76680-Y	STAY	2	2	2					S
		(A=M45501) (B=M45501) (C=M45501)									
15	1	172175-76750-5	CLAMP	1	1	1					
15-1	1	172175-76750-1	CLAMP, PLUMBING 1/2	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									

Fig.70. HYD.OIL PIPING(P.T.O. : ARM END)

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

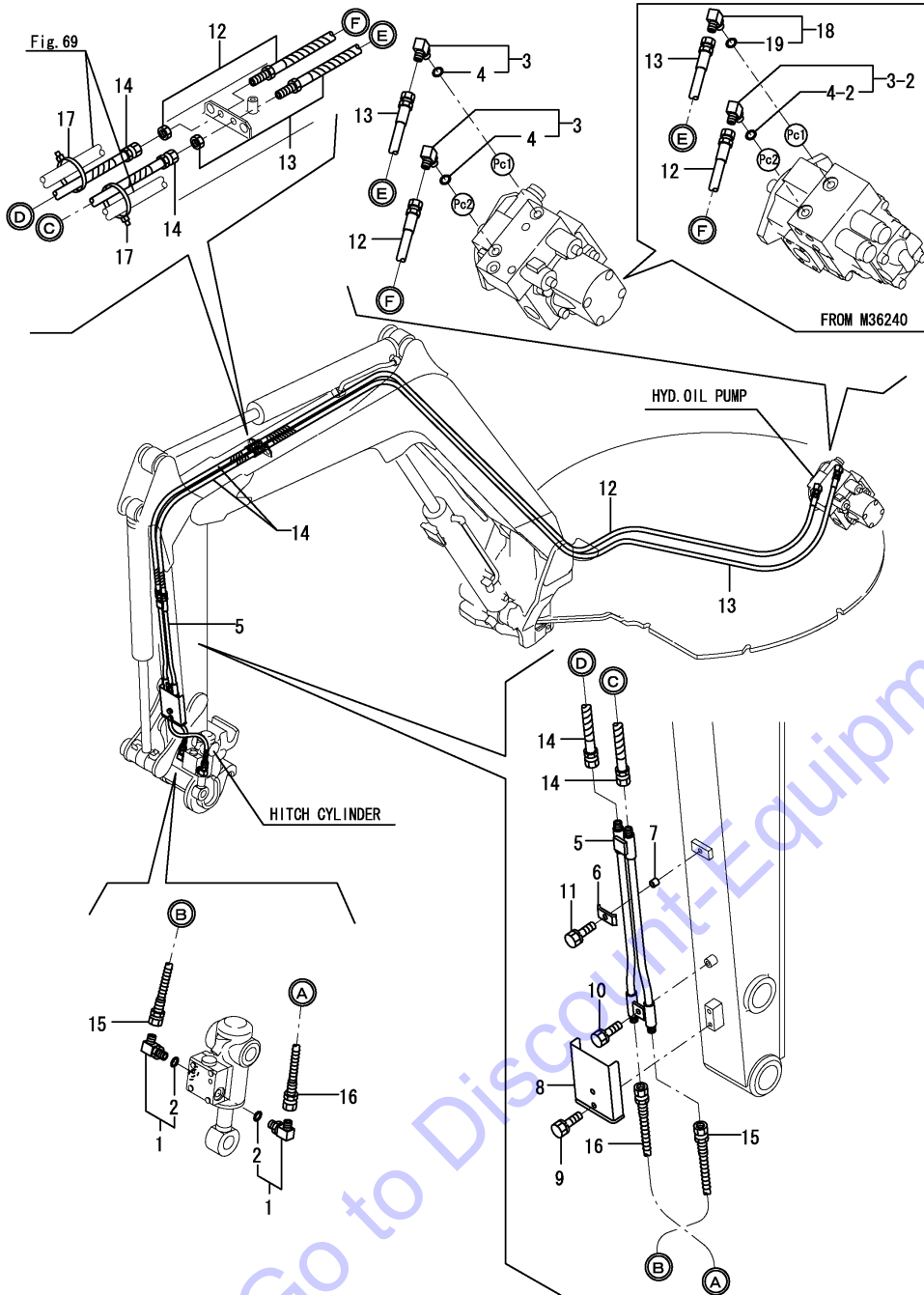


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
15-2	1	172175-76750-Y (A=M45501) (B=M45501) (C=M45501)	CLAMP, PLUMBING 1/2	1	1	1					S
16	1	172142-76950	CLAMP	4	4	4					
16-1	1	172142-76950-6 (A=M34345) (B=M34345) (C=M34345)	CLAMP	4	4	4					S
16-2	1	172142-76950-Y (A=M45501) (B=M45501) (C=M45501)	CLAMP	4	4	4					S
17	1	26013-120302	BOLT	2	2	2					
18	1	26013-120402	BOLT	2	2	2					
18-1	1	26013-120502 (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	BOLT	2	2	2					S
19	1	26013-120502	BOLT	2	2	2					
19-1	1	26013-120602 (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	BOLT	2	2	2					S
20	1	26013-120552	BOLT	1	1	1					
20-1	1	26013-120602 (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	BOLT	1	1	1					S
21	1	172469-78510	HOSE	1	1	1					
22	1	172469-78520	HOSE	1	1	1					
23	1	172469-78530	HOSE	1	1	1					
24	1	172469-78540	HOSE	1	1	1					
25	1	172456-78910	HOSE	2	2	2					
26	1	22117-100000 (A=M/#30865) (B=M/#30865) (C=M/#30865)	WASHER	4	4	4					W
27	1	172183-76250-Y (A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)	PLATE, SPACER	2	2	2					W

Remarks

- (1) Interchangeable by simultaneous replacement with Ref.No.10-3,18-1,19-1,27.
- (2) T=Ref.No.10-2:9mm, No.10-3:16mm.

Fig.71. HYD.OIL PIPING(QUIK COUPLER)



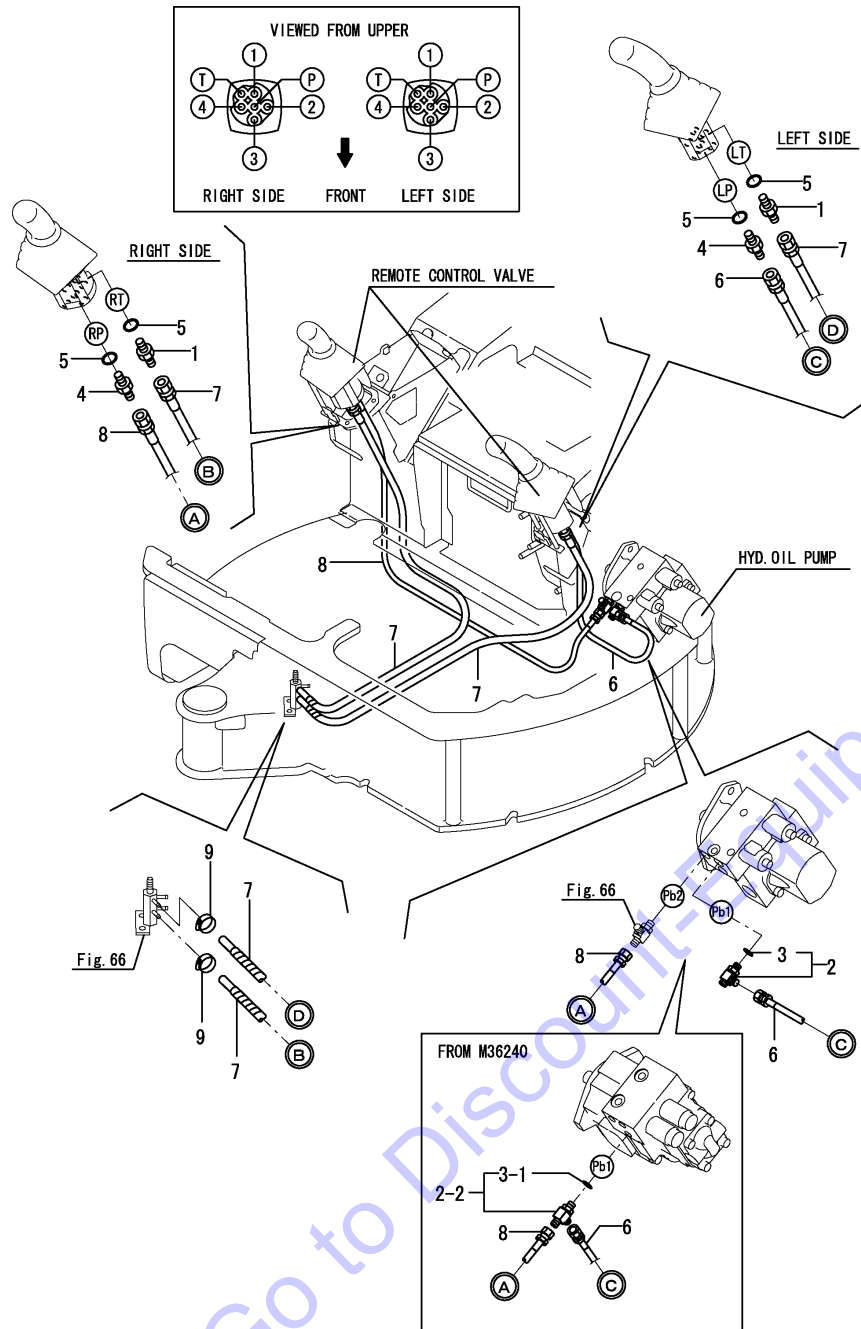
OCS10-G44703 71. HYD.OIL PIPING(QUIK COUPLER)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-76130	ELBOW	2	2	2					
2	2	24315-000110	O-RING	2	2	2					
3	1	172141-76180	CONNECTOR ASSY	2	2	2					
3-1	1	172141-76181	CONNECTOR ASSY	2	2	2					N
		(A=M35241) (B=M35241) (C=M35241)									
3-2	1	172141-76181	CONNECTOR ASSY	1	1	1					K
		(A=M36240) (B=M36240) (C=M36240)									
4	2	24315-000110	O-RING	2	2	2					
4-1	2	41851-000110	O-RING	2	2	2					N
		(A=M35241) (B=M35241) (C=M35241)									
4-2	2	41851-000110	O-RING	1	1	1					K
		(A=M36240) (B=M36240) (C=M36240)									
5	1	172956-76100-1	TUBE, HITCH	1	1	1					
5-1	1	172956-76100-3	TUBE ASSY, HITCH(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
5-2	1	172956-76100-Y	TUBE ASSY, HITCH	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
6	1	172110-76170-1	PLATE	1	1	1					
6-1	1	172110-76170-3	PLATE	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
6-2	1	172110-76170	PLATE	1	1	1					R
		(A=MZZZZZ) (B=MZZZZZ) (C=MZZZZZ)									
7	1	172137-76580	COLLAR	1	1	1					
8	1	172956-81901-1	COVER, ARM	1	1	1					
8-1	1	172956-81901-3	COVER, ARM (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
8-2	1	172956-81901-Y	COVER, ARM	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
9	1	26013-080162	BOLT	2	2	2					
10	1	26013-080162	BOLT	1	1	1					
11	1	26013-080252	BOLT	1	1	1					
12	1	172956-78100	HOSE	1	1	1					
13	1	172956-78110	HOSE	1	1	1					
14	1	172957-78111	HOSE	2	2	2					
15	1	172956-78120	HOSE	1	1	1					
16	1	172958-78200	HOSE	1	1	1					
17	1	172122-79930	CLAMP, HOSE	2	2	2					
18	1	172958-76130	ELBOW	1	1	1					W
		(A=M36240) (B=M36240) (C=M36240)									
19	2	24315-000110	O-RING	1	1	1					

Fig.72. CONTROL PIPING(PUMP - REMOTE CONTROL VALVE - RETURN)

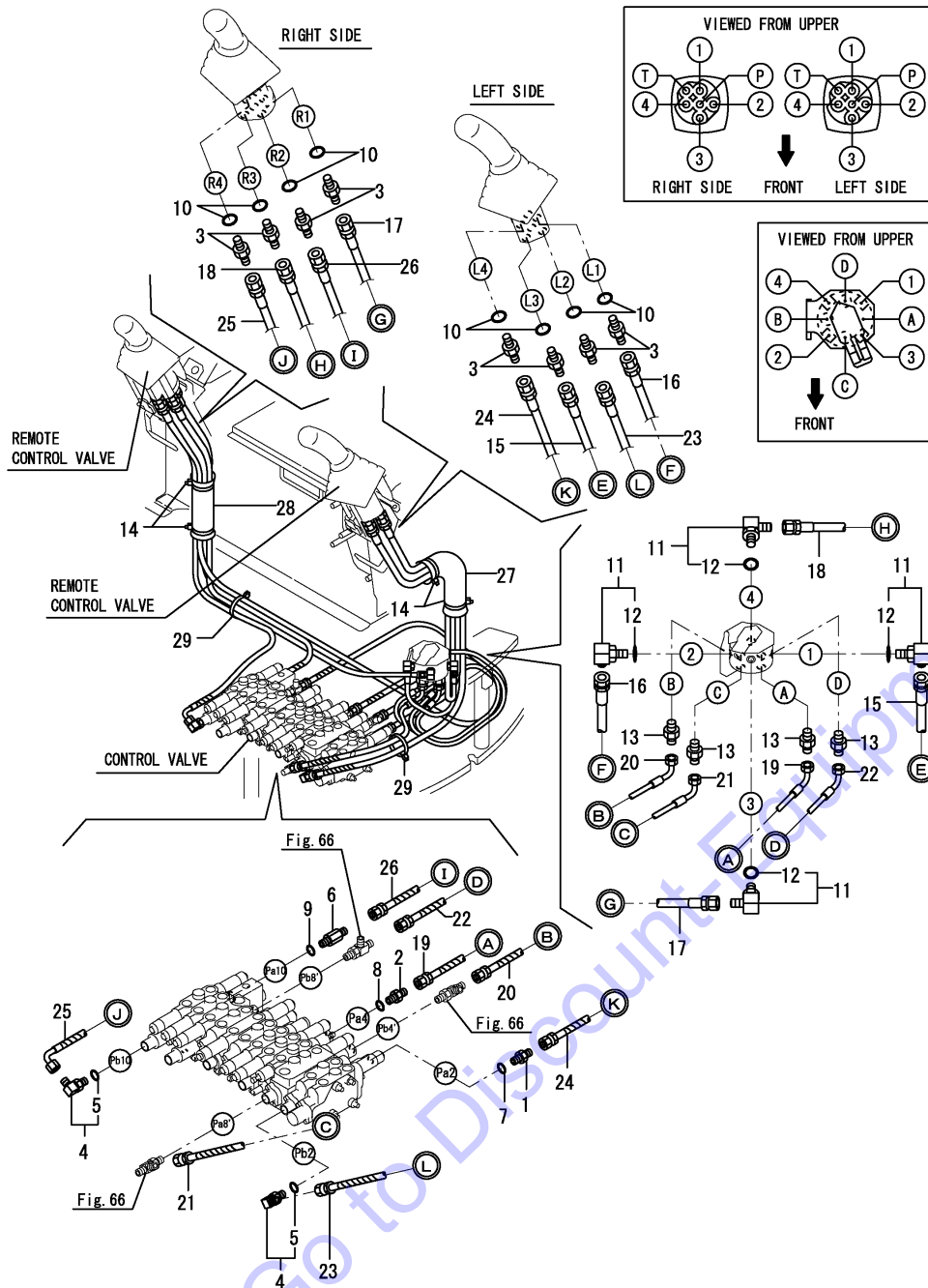


(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	JOINT PF1/4	2	2	2					
2	1	172187-76210	ELBOW	1	1	1					
2-1	1	172187-76211	ELBOW	1	1	1					N
2-2	1	172162-76181	JOINT 3-1/4 ASSY	1	1	1					S
		(A=M34222) (B=M34222) (C=M34222)									
3	2	24315-000110	O-RING 1B P-11.0	1	1	1					
3-1	2	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M34222) (B=M34222) (C=M34222)									
4	1	172455-76220	CONNECTOR PF1/4	2	2	2					
5	1	24315-000110	O-RING 1B P-11.0	4	4	4					
5-1	1	41851-000110	PACKING, 11.0	4	4	4					N
		(A=M35460) (B=M35460) (C=M35460)									
6	1	172469-78180	HOSE	1	1	1					
7	1	172469-78190	HOSE	2	2	2					
8	1	172469-78200	HOSE	1	1	1					
9	1	23000-013000	CLAMP 13	2	2	2					

Fig.73. CONTROL PIPING(REMOTE CONTROL V. - 2-WAY V. - CONTROL V.)



OCS10-G44703 73. CONTROL PIPING(REMOTE CONTROL V. - 2-WAY V. - CONTROL V.)

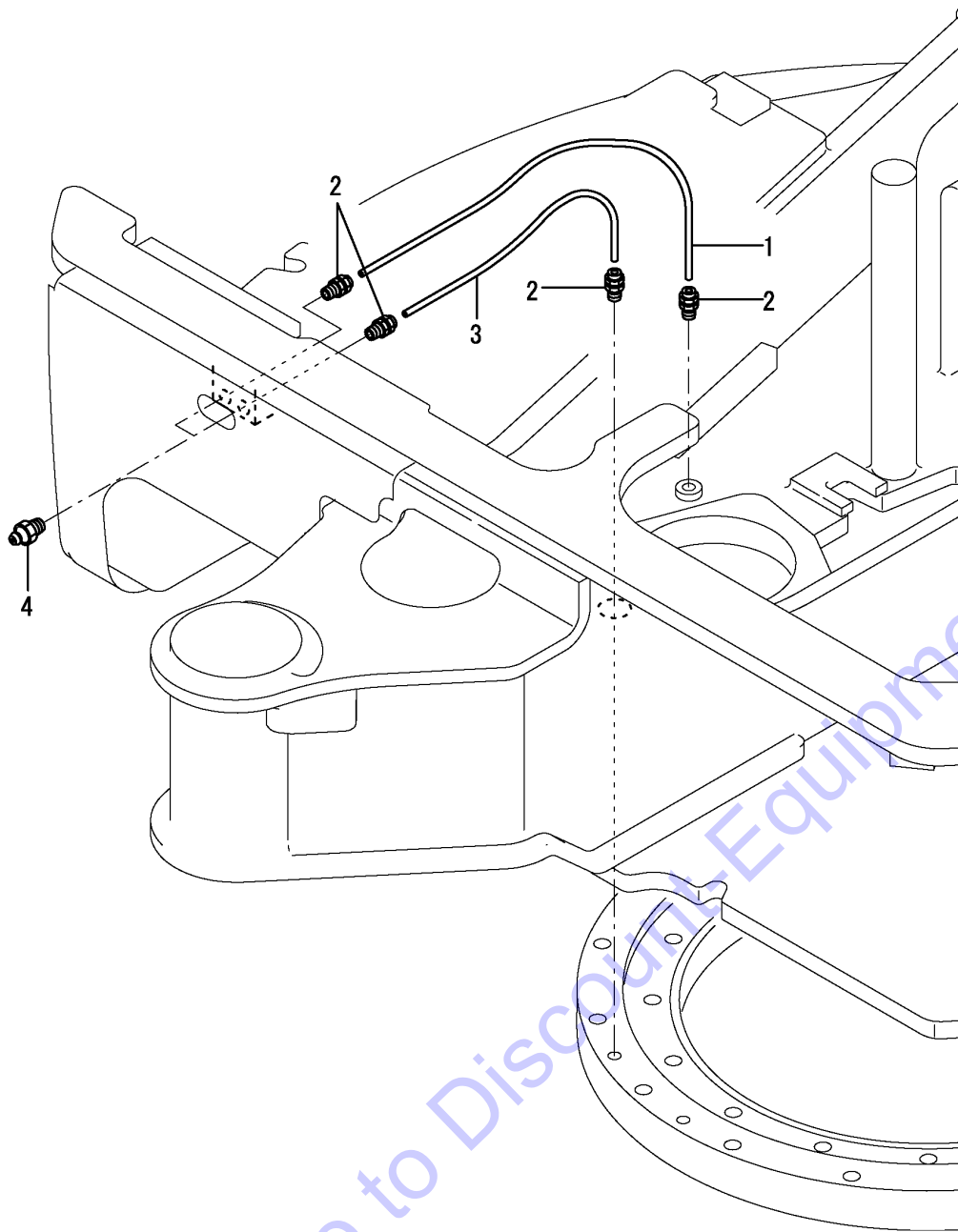
(A)=VIO20-3(US) (D)=  
 (B)=VIO20-3(AS) (E)=  
 (C)=VIO20-3(NZ) (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	JOINT PF1/4	1	1	1					
2	1	172123-76121	JOINT PF1/4	1	1	1					
3	1	172123-76121	JOINT PF1/4	8	8	8					
4	1	172141-76180	CONNECTOR	2	2	2					
4-1	1	172141-76181	CONNECTOR ASSY, 02FF	2	2	2					N
		(A=M35241) (B=M35241) (C=M35241)									
5	2	24315-000110	O-RING 1B P-11.0	2	2	2					
5-1	2	41851-000110	PACKING, 11.0	2	2	2					N
		(A=M35241) (B=M35241) (C=M35241)									
6	1	172183-76200	CONNECTOR 1/4-1/4	1	1	1					
7	1	24315-000110	O-RING 1B P-11.0	1	1	1					
7-1	1	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
8	1	24315-000110	O-RING 1B P-11.0	1	1	1					
8-1	1	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
9	1	24315-000110	O-RING 1B P-11.0	1	1	1					
9-1	1	41851-000110	PACKING, 11.0	1	1	1					N
		(A=M35460) (B=M35460) (C=M35460)									
10	1	24315-000110	O-RING 1B P-11.0	8	8	8					
10-1	1	41851-000110	PACKING, 11.0	8	8	8					N
		(A=M35460) (B=M35460) (C=M35460)									
11	1	172141-76180	CONNECTOR	4	4	4					
11-1	1	172141-76181	CONNECTOR ASSY, 02FF	4	4	4					N
		(A=M35241) (B=M35241) (C=M35241)									
12	2	24315-000110	O-RING 1B P-11.0	4	4	4					
12-1	2	41851-000110	PACKING, 11.0	4	4	4					N
		(A=M35241) (B=M35241) (C=M35241)									
13	1	23391-020000	JOINT RG1/4	4	4	4					
14	1	172126-11510	BAND 300	4	4	4					
15	1	172469-78100	HOSE	1	1	1					
16	1	172469-78110	HOSE	1	1	1					
17	1	172469-78120	HOSE	1	1	1					
18	1	172469-78130	HOSE	1	1	1					
19	1	172469-78140	HOSE	1	1	1					
20	1	172469-78150	HOSE	1	1	1					
21	1	172472-78160	HOSE	1	1	1					
22	1	172469-78170	HOSE	1	1	1					
23	1	172469-78210	HOSE	1	1	1					
24	1	172469-78220	HOSE	1	1	1					
25	1	172469-78230	HOSE	1	1	1					
26	1	172469-78240	HOSE	1	1	1					
27	1	172472-78800	SPONGE	1	1	1					
28	1	172165-79810	SPONGE	1	1	1					
29	1	172122-79930	CLAMP B	4	4	4					

Fig.74. GREASING

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

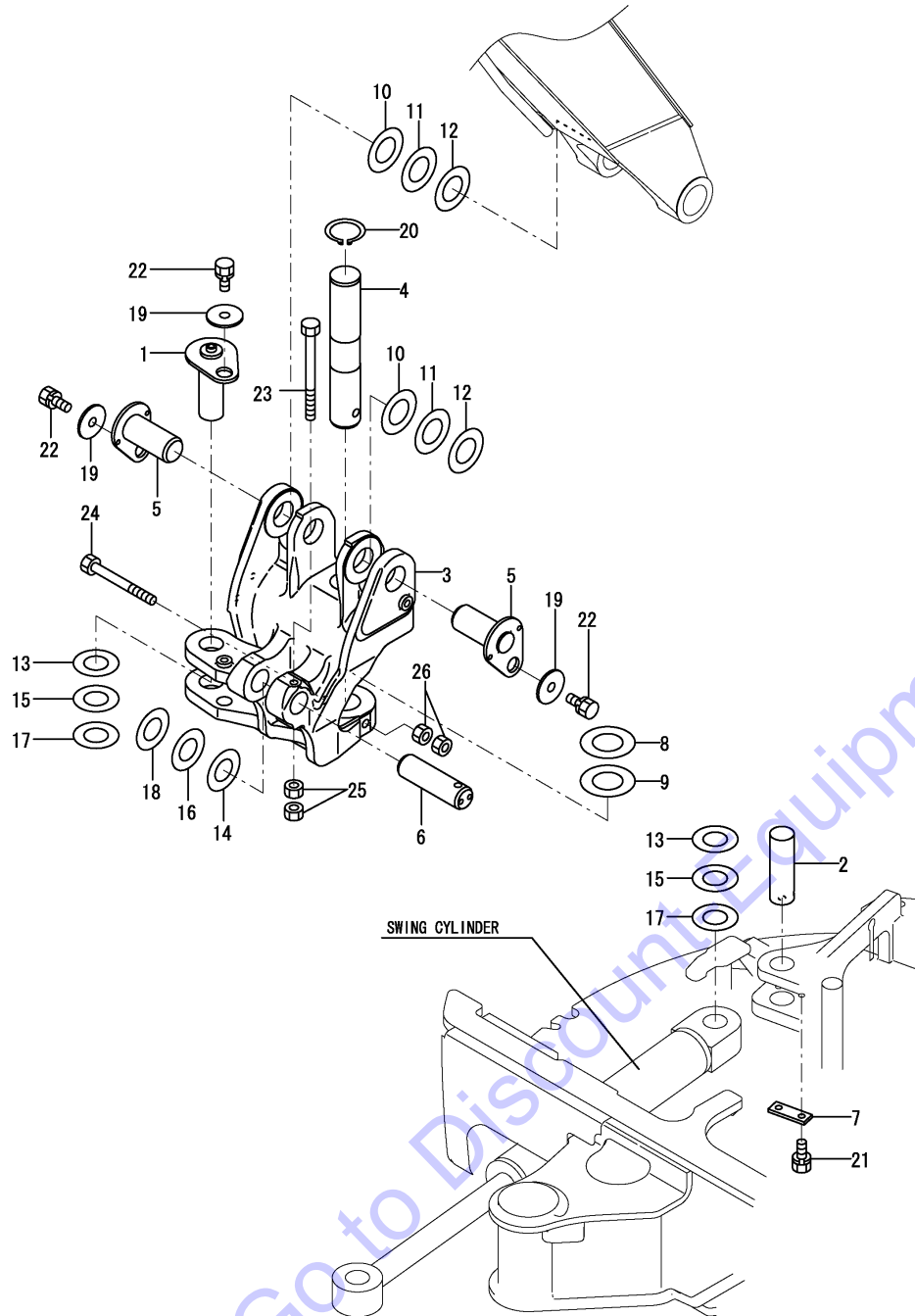
(D)=  
 (E)=  
 (F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172186-77100	HOSE	1	1	1					
2	1	172141-77800	JOINT, GREASE	4	4	4					
3	1	172151-77801	HOSE	1	1	1					
4	1	24761-020000	NIPPLE PT1/8,GREASE	2	2	2					

Go to [DiscountEquipment.com](http://DiscountEquipment.com) to order your parts

Fig.75. BOOM BRACKET

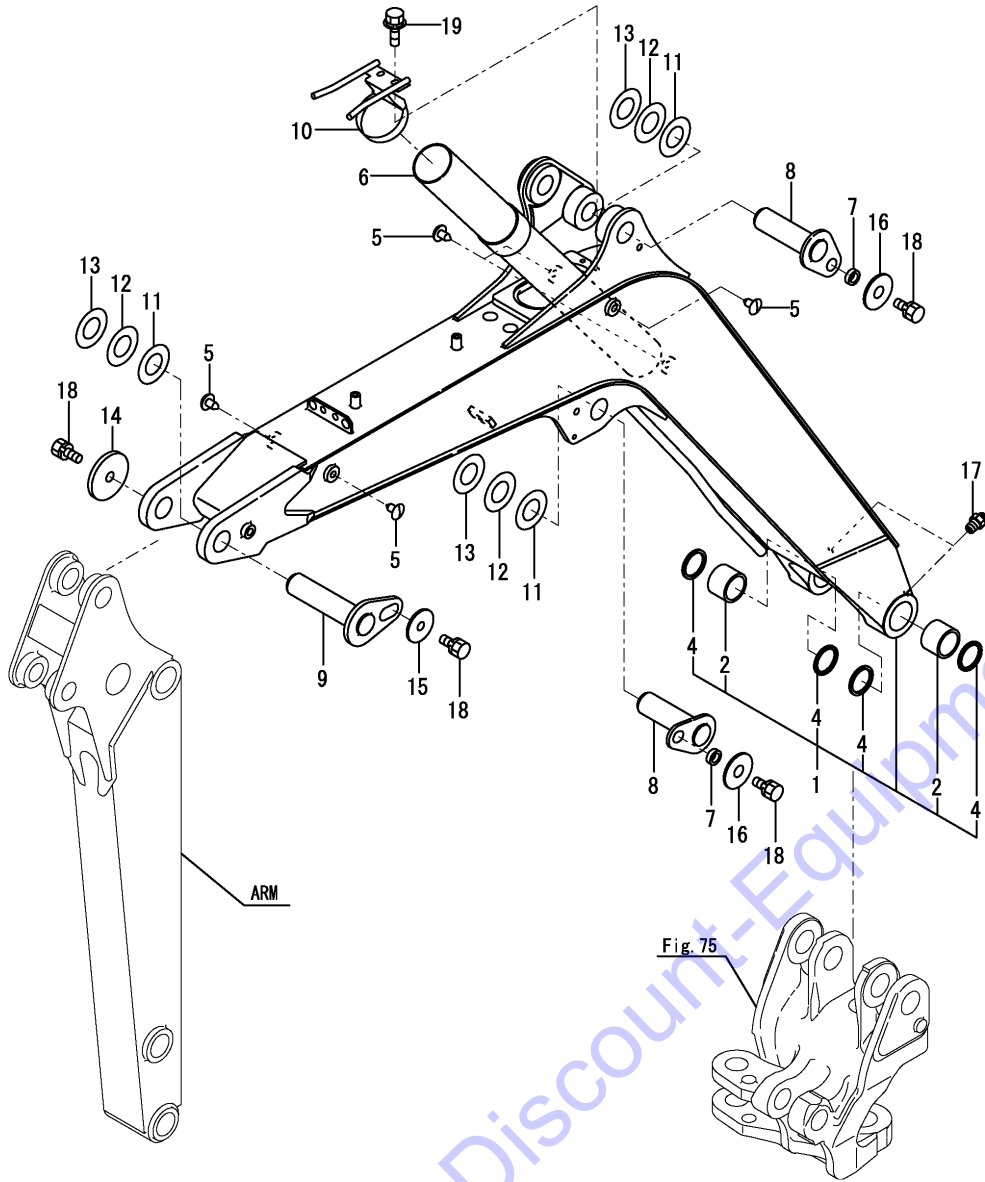


(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-81900	PIN 40X103	1	1	1					
2	1	172458-81920	PIN	1	1	1					
3	1	172456-82300-1	BRACKET, BOOM	1	1	1					
3-1	1	172456-82300-2 (A=M34345) (B=M34345) (C=M34345)	BRACKET, BOOM(2J)	1	1	1					S
3-2	1	172456-82300-Y (A=M45501) (B=M45501) (C=M45501)	BRACKET, BOOM	1	1	1					S
4	1	172456-82330	PIN 50X264	1	1	1					
5	1	172456-82340	PIN 45X98	2	2	2					
6	1	172456-82360	PIN 40X124	1	1	1					
6-1	1	172456-82361 (A=M34875) (B=M34875) (C=M34875)	PIN 40X124	1	1	1					N
7	1	172456-82400-2	PLATE, LOCK	1	1	1					
7-1	1	172456-82400-3 (A=M/#32643) (B=M/#32643) (C=M/#32643)	PLATE, LOCK	1	1	1					S
8	1	172165-82520	SHIM	1	1	1					
9	1	172165-82530	SHIM	1	1	1					
10	1	172165-82550	SHIM	2	2	2					
11	1	172165-82560	SHIM	2	2	2					
12	1	172165-82570	SHIM	2	2	2					
13	1	172165-82580	SHIM	2	2	2					
14	1	172165-82580	SHIM	1	1	1					
15	1	172165-82590	SHIM	2	2	2					
16	1	172165-82590	SHIM	1	1	1					
17	1	172165-82600	SHIM	2	2	2					
18	1	172165-82600	SHIM	1	1	1					
19	1	22157-120000	WASHER	3	3	3					
20	1	22242-000500	RING	1	1	1					
21	1	26013-100202	BOLT	2	2	2					
22	1	26013-120252	BOLT	3	3	3					
23	1	26116-121102	BOLT	1	1	1					
24	1	26206-141502	BOLT	1	1	1					
25	1	26716-120002	NUT	2	2	2					
26	1	26716-140002	NUT	2	2	2					

Fig.76. BOOM



(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

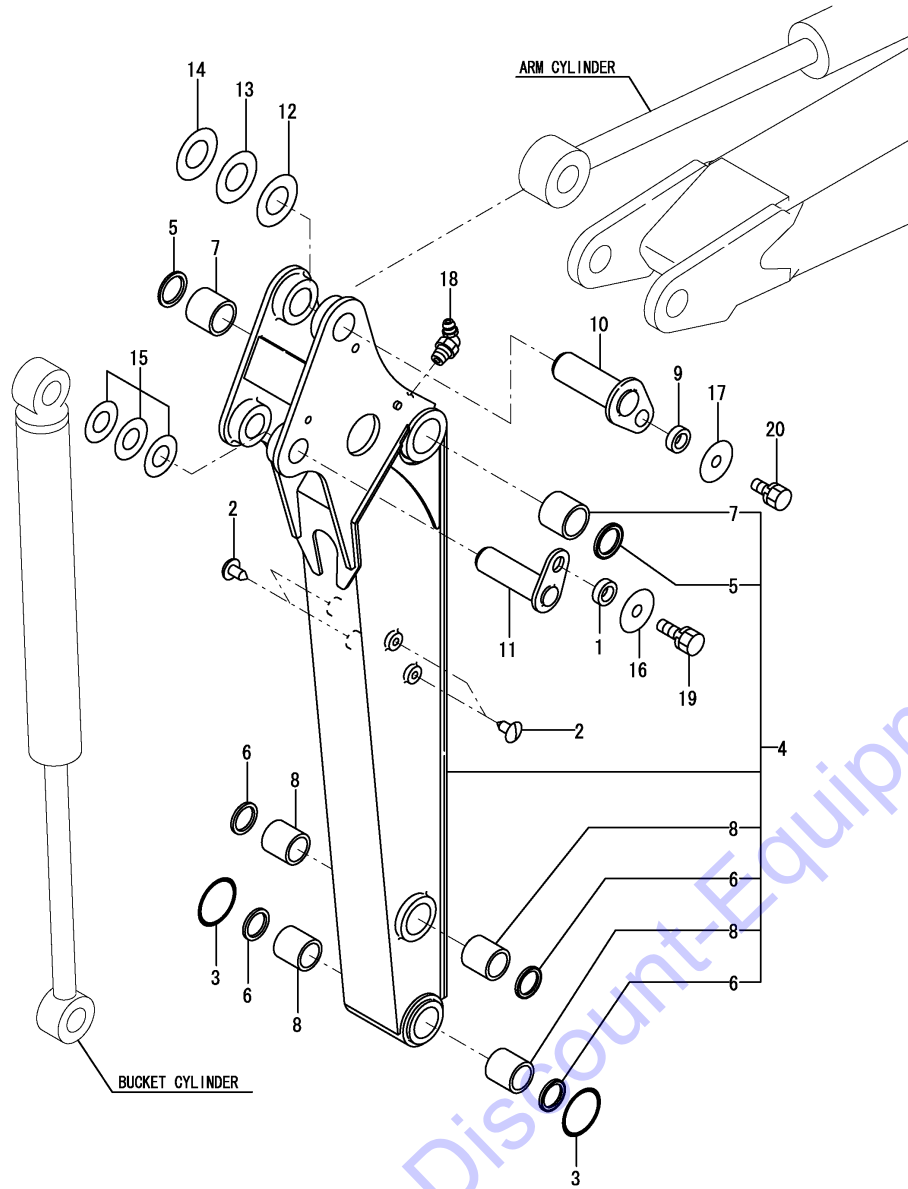
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-81090-1	BOOM ASSY	1	1	1					1
1-1	1	172A23-81090-3	BOOM ASSY (2J)	1	1	1					S 1
		(A=M34345) (B=M34345) (C=M34345)									
1-2	1	172A23-81090-Y	BOOM ASSY	1	1	1					S 1
		(A=M45501) (B=M45501) (C=M45501)									
2	2	172168-72400	BUSH 45X55X40	2	2	2					
4	2	172168-81410	SEAL, DUST	4	4	4					
4A	1	172524-03271	LABEL, REAR	2	2	2					2
4A-1	1	172A55-03310	LABEL, BRAND 450	2	2	2					N 2
		(A=M/#32637) (B=M/#32637) (C=M/#32637)									
4B	1	172437-03431	LABEL,STEERING	1	1	1					2
4B-1	1	172437-03432	LABEL, STEERING	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
4C	1	172437-03460	LABEL, BOOM	2	2	2					2
4C-1	1	172437-03461	LABEL, BOOM	2	2	2					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
4D	1	172472-03270	LABEL,SAND US	1	1	1					2
4D-1	1	172472-03271	LABEL, SANDUS	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
4E	1	172472-03280	LABEL	1	1	1					2
4E-1	1	172472-03281	LABEL, WARNING HITCH	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
5	1	172183-81170	CLIP, TREE	5	5	5					
5-1	1	172176-68210	CLIP, TREE	5	5	5					N
		(A=M/#31299) (B=M/#31299) (C=M/#31299)									
5-2	1	172176-68210	CLIP, TREE	5	5	5					Z
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
6	1	172456-81450	PIPE ASSY, PROTECT	1	1	1					
7	1	172164-81670	SPACER	2	2	2					
8	1	172456-81710	PIN 40X134	2	2	2					
9	1	172456-81740	PIN 40X167.5 ASSY	1	1	1					
10	1	172458-81751-1	CLAMP, PIPE	1	1	1					
10-1	1	172458-81751-2	CLAMP, PIPE (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
10-2	1	172458-81751-Y	CLAMP, PIPE	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
11	1	172165-82580	SHIM	3	3	3					
12	1	172165-82590	SHIM	3	3	3					
13	1	172165-82600	SHIM	3	3	3					
14	1	172146-82910	SPACER	1	1	1					
15	1	172444-82990	WASHER	1	1	1					
16	1	22157-120000	WASHER	2	2	2					
17	1	24761-050000	NIPPLE, GREASE	2	2	2					
18	1	26013-120252	BOLT	4	4	4					
19	1	26014-080162	BOLT	2	2	2					

Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.4A,4B,4C,4D & 4E.  
(2)LABELS ARE NOT ILLUSTRATED.



Fig.77. ARM



(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	1							
2	1	172183-81160	CLIP, TREE	4							Z
(A=MXXXXX)											
3	1	172171-81270	O-RING	2							
4	1	172456-81490-1	ARM ASSY	1							W 1
(A=M#32722)											
4-1	1	172456-81490-3	ARM ASSY,950 (2J)	1							S 1
(A=M34345)											
4-2	1	172456-81491-2	ARM ASSY,950 (2J)	1							N 1
(A=M45001)											
4-3	1	172456-81491-Y	ARM ASSY,950	1							S 1
(A=M45501)											
5	2	172448-72650	SEAL, DUST	2							
6	2	172448-81610	SEAL 35X45X4,DUST	4							
7	2	172456-81650	BUSHING 40X50X45	2							
8	2	172141-82270	BUSH 35 45	4							
8A	1	172437-03510	LABEL, HOOK	2							2
8A-1	1	172437-03511	LABEL, HOOK	2							N 2
(A=M#31399)											
8A-2	1	172437-03511	LABEL, HOOK	1							K 2
(A=M#31553)											
9	1	172164-81670	SPACER	1							
10	1	172456-81770	PIN 40X116 ASSY	1							
11	1	172456-81810	PIN 35X116 ASSY	1							
12	1	172165-82580	SHIM	1							
13	1	172165-82590	SHIM	1							
14	1	172165-82600	SHIM	1							
15	1	172141-84601	SHIM	1							
16	1	22157-100000	WASHER	1							
17	1	22157-120000	WASHER	1							
18	1	24761-040000	NIPPLE, GREASE	1							
19	1	26013-100252	BOLT	1							
20	1	26013-120252	BOLT	1							

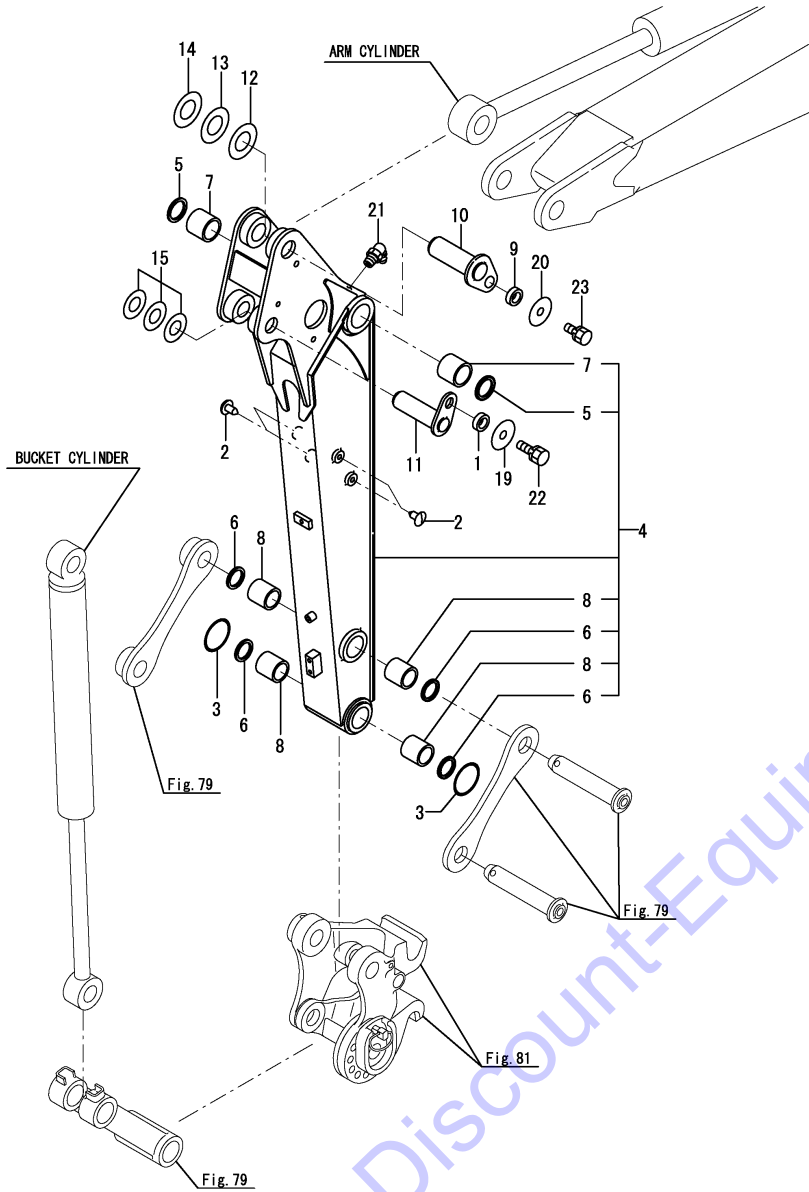
Remarks

- (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.8A.
- (2)LABELS ARE NOT ILLUSTRATED.

Fig.78. ARM(QUICK COUPLER SPEC.)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	1	1	1					
2	1	172183-81160	CLIP, TREE	4	4	4					Z
		(A=MXXXXX) (B=MXXXXX) (C=MXXXXX)									
3	1	172171-81270	O-RING	2	2	2					
4	1	172956-81490-1	ARM ASSY	1	1	1					W 1
		(A=M/#32722) (B=M/#32722) (C=M/#32722)									
4-1	1	172956-81490-3	ARM ASSY,950 Q (2J)	1	1	1					S 1
		(A=M34345) (B=M34345) (C=M34345)									
4-2	1	172956-81490-Y	ARM ASSY,950 Q	1	1	1					S 1
		(A=M45501) (B=M45501) (C=M45501)									
5	2	172448-72650	SEAL, DUST	2	2	2					
6	2	172448-81610	SEAL 35X45X4,DUST	4	4	4					
7	2	172456-81650	BUSHING 40X50X45	2	2	2					
8	2	172141-82270	BUSH 35 45	4	4	4					
8A	1	172437-03510	LABEL, HOOK	2	2	2					2
8A-1	1	172437-03511	LABEL, HOOK	2	2	2					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
8A-2	1	172437-03511	LABEL, HOOK	1	1	1					K 2
		(A=M/#31553) (B=M/#31553) (C=M/#31553)									
8B	1	172472-03230	LABEL, OPERATION	1	1	1					2
8C	1	172472-03260	LABEL,FINGER	1	1	1					2
8C-1	1	172472-03261	LABEL, FINGER	1	1	1					N 2
		(A=M/#31399) (B=M/#31399) (C=M/#31399)									
8D	1	172472-03330	LABEL, LOCK PIN	1	1	1					W 2
		(A=M/#31474) (B=M/#31474) (C=M/#31474)									
9	1	172164-81670	SPACER	1	1	1					
10	1	172456-81770	PIN 40X116 ASSY	1	1	1					
11	1	172456-81810	PIN 35X116 ASSY	1	1	1					
12	1	172165-82580	SHIM	1	1	1					
13	1	172165-82590	SHIM	1	1	1					
14	1	172165-82600	SHIM	1	1	1					
15	1	172141-84601	SHIM	1	1	1					
19	1	22157-100000	WASHER	1	1	1					
20	1	22157-120000	WASHER	1	1	1					
21	1	24761-040000	NIPPLE, GREASE	1	1	1					
22	1	26013-100252	BOLT	1	1	1					
23	1	26013-120252	BOLT	1	1	1					

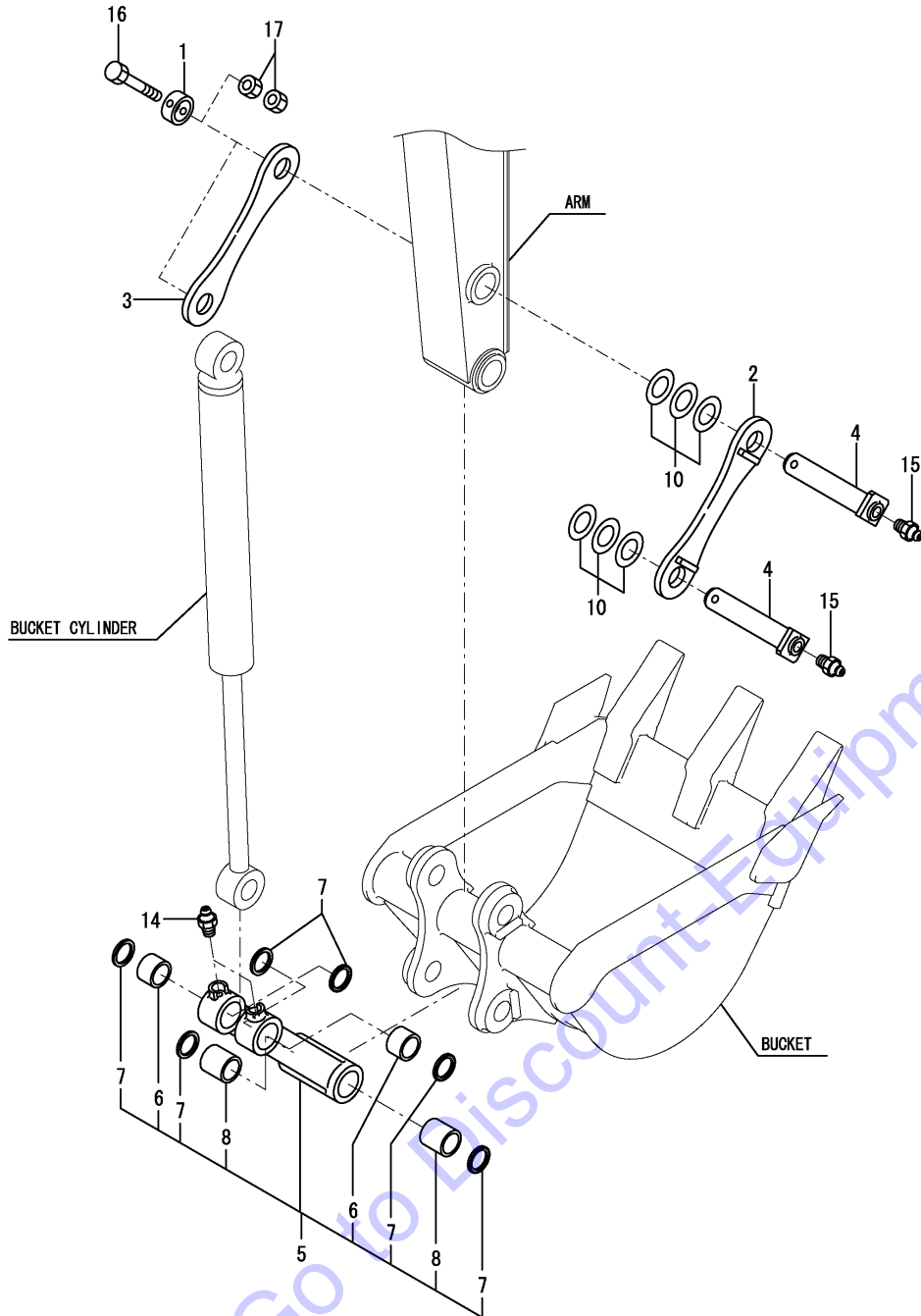
Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.8A,8B,8C & 8D.  
(2)LABELS ARE NOT ILLUSTRATED.

Fig.79. BUCKET ARM & LINK

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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

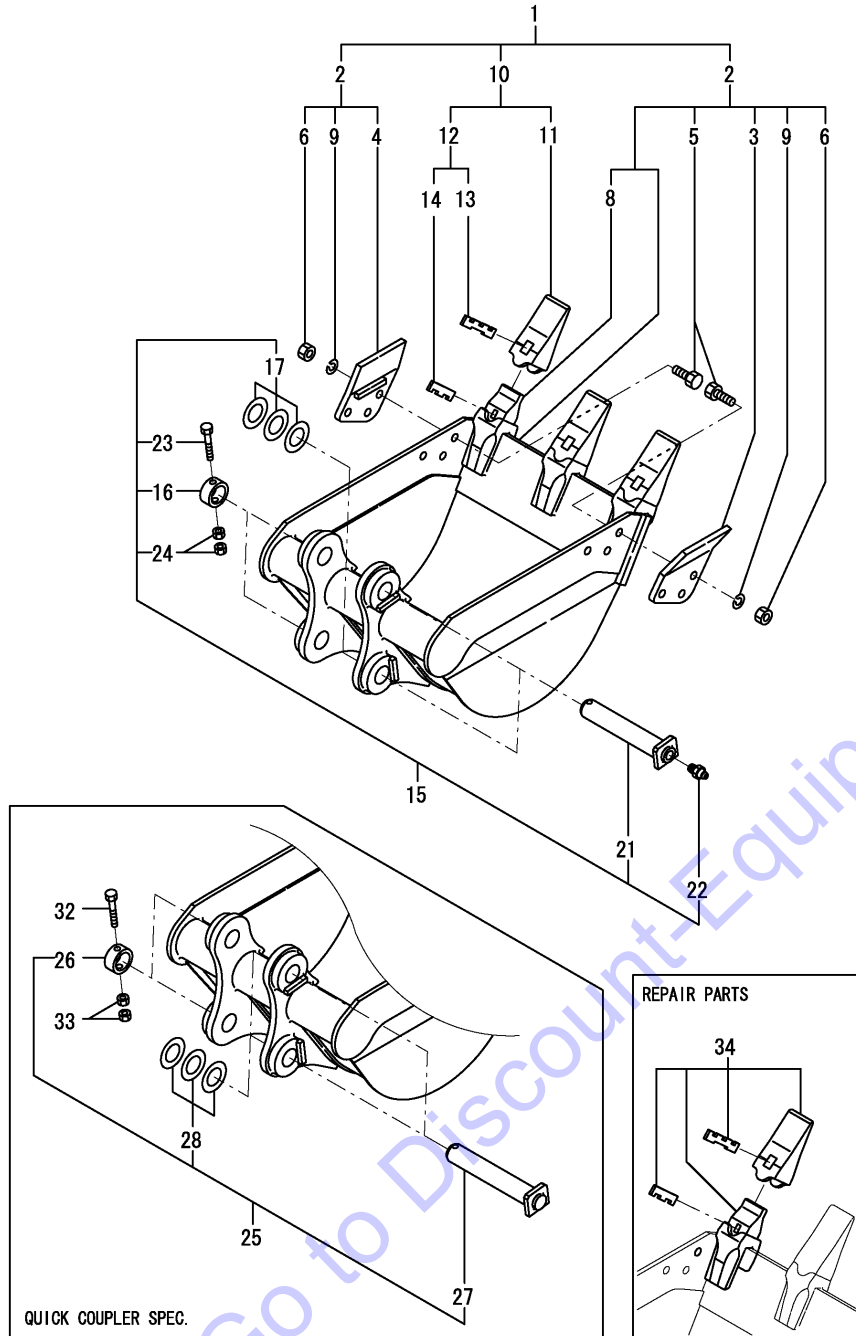


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172171-81500	COLLAR 35X48.6X22	2	2	2					
2	1	172456-82701-1	ARM, BUCKET	1	1	1					
2-1	1	172456-82701-3	ARM, BUCKET (2J)	1	1	1					S
2-2	1	172456-82701-Y	ARM, BUCKET	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
		(A=M45501) (B=M45501) (C=M45501)									
3	1	172456-82710-1	ARM, BUCKET	1	1	1					
3-1	1	172456-82710-2	ARM, BUCKET (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
3-2	1	172456-82710-Y	ARM, BUCKET	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
4	1	172456-82831	PIN 35X160 ASSY	2	2	2					
5	1	172141-84403-1	LINK ASSY, BUCKET	1	1	1					
5-1	1	172141-84403-3	BACKETLINK ASSY (2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
5-2	1	172141-84403-Y	BACKETLINK ASSY	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
6	2	172141-72561	BUSH (35-45-30)	2	2	2					
7	2	172448-81610	SEAL 35X45X4,DUST	6	6	6					
8	2	172141-82270	BUSH 35 45	2	2	2					
10	1	172141-84601	SHIM	2	2	2					
14	1	24761-020000	NIPPLE, GREASE	2	2	2					
15	1	24761-020000	NIPPLE, GREASE	2	2	2					
16	1	26116-100652	BOLT	2	2	2					
17	1	26716-100002	NUT	4	4	4					

Fig.80. BUCKET

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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

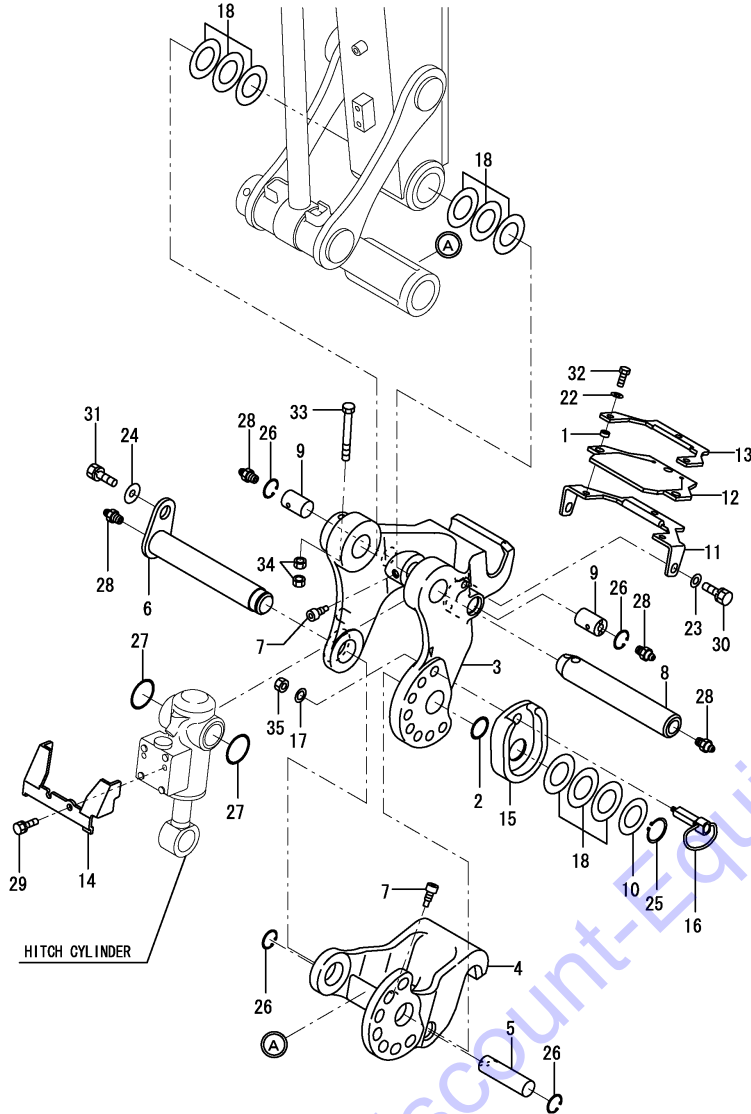


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-82501-1	BUCKET ASSY	1	1						
1-1	1	172456-82501-3	BUCKET ASSY, 490S (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1						S
1-2	1	172456-82502-2	BUCKET,490S(GRAY:49) (A=M45001) (C=M45001)	1	1						N
2	2	172456-82690-3	BUCKET ASSY,490S(82) (A=M/#32797) (B=M/#32797) (C=M/#32797)	1	1						W
2-1	2	172456-82690-2	BUCKET ASSY (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1						S
2-2	2	172456-82691-2	BUCKET ASSY,490S(49) (A=M45001) (C=M45001)	1	1						N
3	3	172458-82240-1	CUTTER, SIDE	1	1						
3-1	3	172458-82240-4	CUTTER, SIDE (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1						S
4	3	172458-82260-1	CUTTER, SIDE	1	1						
4-1	3	172458-82260-4	CUTTER, SIDE (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1						S
5	3	172458-82280	BOLT M14X 40	6	6						
6	3	172458-82290	NUT 14	6	6						
8	4	172448-82530-1	ADAPTER	3	3						
8-1	4	172448-82530-2	ADAPTER (A=M/#32643) (B=M/#32643) (C=M/#32643)	3	3						S
9	3	22217-140000	SPRING WASHER 14	6	6						
10	2	172448-82950	TOOTH KIT, POINT	3	3						
10-1	2	172448-82950-3	TOOTH KIT, POINT (A=M/#32643) (B=M/#32643) (C=M/#32643)	3	3						S
11	3	172448-82570-1	TOOTH, POINT	3	3						
11-1	3	172448-82570-3	TOOTH, POINT (A=M/#32643) (B=M/#32643) (C=M/#32643)	3	3						S
12	3	172448-82960	PIN ASSY, LOCK	3	3						
13	4	172448-82580	PIN,LOCK	3	3						
14	4	172448-82590	RUBBER,PIN	3	3						
15	1	172456-82900	PIN KIT, BUCKET	2							
16	2	172171-81500	COLLAR 35X48.6X22	2							
17	2	172141-84601	SHIM 35	2							
21	2	172141-86252	PIN 35-195	2							
22	2	24761-020000	NIPPLE PT1/8,GREASE	2							
23	2	26116-100652	BOLT M10X 65 PLATED	2							
24	2	26716-100002	NUT 10	4							
25	1	172956-81600	PIN KIT,BUCKET(QUICK)	2	2	2					
26	2	172171-81500	COLLAR 35X48.6X22	2	2	2					
27	2	172956-83120	PIN 35-195 ASSY	2	2	2					
28	2	172141-84601	SHIM 35	2	2	2					
32	2	26116-100652	BOLT M10X 65 PLATED	2	2	2					
33	2	26716-100002	NUT 10	4	4	4					
34	1	772448-82530-1	TOOTH ASSY	3	3						
34-1	1	772448-82530-3	TOOTH ASSY (A=M/#32643) (B=M/#32643) (C=M/#32643)	3	3						S

Fig.81. QUICK COUPLER

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



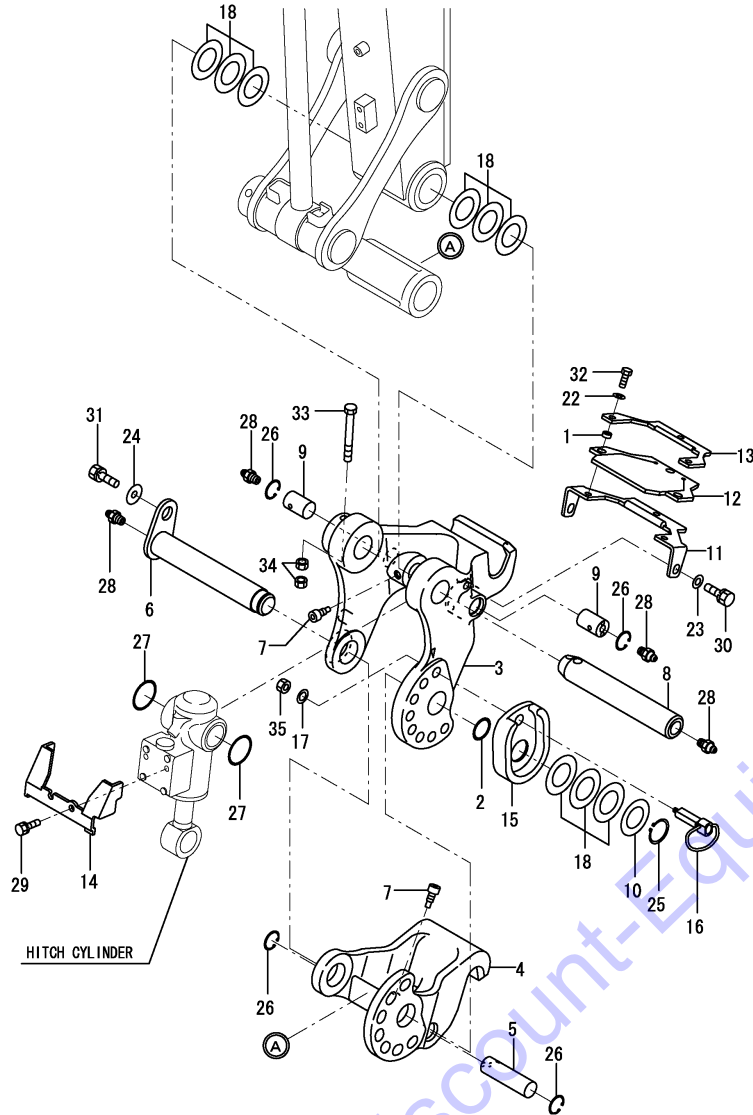
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17120	BRACKET,ACOLLAR	3	3	3					
1-1	1	172958-17121	COLLER 9X4	3	3	3					N
		(A=M35124) (B=M35124) (C=M35124)									
2	1	172124-46200	O-RING	1	1	1					
3	1	172956-83102-1	BRACKET	1	1	1					
3-1	1	172956-83102-3	BRACKET,A(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
3-2	1	172956-83102-Y	BRACKET,A	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
4	1	172956-83112-1	BRACKET	1	1	1					
4-1	1	172956-83112-3	BRACKET,B(2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
4-2	1	172956-83112-Y	BRACKET,B	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
5	1	172958-83130	PIN	1	1	1					
5-1	1	172958-83131	PIN	1	1	1					N
		(A=M35500) (B=M35500) (C=M35500)									
6	1	172956-83140	PIN ASSY 35X213.5	1	1	1					
7	1	172958-83140	BOLT	3	3	3					
8	1	172956-83160	PIN 35X218	1	1	1					
9	1	172956-83200	PIN 25-38	2	2	2					
10	1	172956-83221	COLLAR 32.5X55X1.2	1	1	1					
11	1	172956-83252-1	GUARD ASSY	1	1	1					
11-1	1	172956-83252-3	GUARD ASSY(YELLOW2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
11-2	1	172956-83252-Y	GUARD ASSY	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
12	1	172956-83281	PLATE, RUBBER	1	1	1					
12-1	1	172956-83282	PLATE, RUBBER	1	1	1					N
		(A=M/#31241) (B=M/#31241) (C=M/#31241)									
13	1	172956-83291-1	PLATE ASSY	1	1	1					
13-1	1	172956-83291-3	BLADE ASSY(YELLOW2J)	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
13-2	1	172956-83291-Y	BLADE ASSY	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
14	1	172958-83292-1	COVER, HITCH	1	1	1					
14-1	1	172958-83292-2	COVER, HITCH	1	1	1					S
		(A=M34345) (B=M34345) (C=M34345)									
14-2	1	172958-83292-N	COVER, HITCH	1	1	1					S
		(A=M45501) (B=M45501) (C=M45501)									
15	1	172956-83350-1	PLATE, LOCK	1	1	1					1
15-1	1	172956-83350-3	PLATE, LOCK(2J)	1	1	1					S 1
		(A=M34345) (B=M34345) (C=M34345)									
15-2	1	172956-83350-Y	PLATE, LOCK	1	1	1					S 1
		(A=M45501) (B=M45501) (C=M45501)									
15A	1	172458-03240	LABEL, LOCK	1	1	1					3
16	1	172956-83361	PIN ASSY, LOCK	1	1	1					2
16-1	1	172956-83362	PIN ASSY, LOCK	1	1	1					N 2
		(A=M/#35241) (B=M/#35241) (C=M/#35241)									
16A	1	172958-03160	LABEL	1	1	1					3
17	1	172956-83381	WASHER 6.4X14X1.5	1	1	1					

Remarks  
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.15A.  
(2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
REF.NO.16A.  
(3)LABELS ARE NOT ILLUSTRATED.

Fig.81. QUICK COUPLER

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



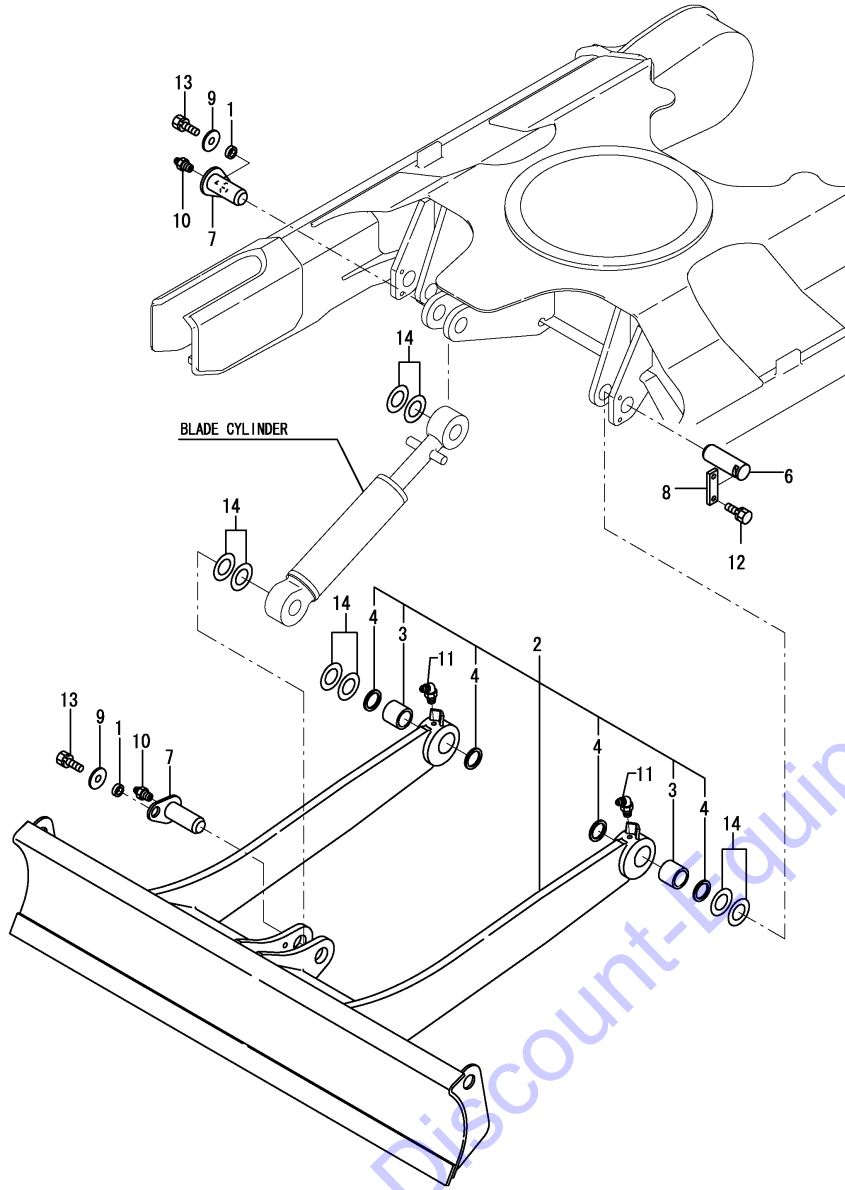
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
18	1	172141-84601	SHIM	3	3	3					
22	1	22137-080000	WASHER	3	3	3					
23	1	22137-100000	WASHER	2	2	2					
24	1	22157-100000	WASHER	1	1	1					
25	1	22242-000320	RING	1	1	1					
26	1	22252-000250	RING	4	4	4					
27	1	24311-000400	O-RING	2	2	2					
28	1	24761-020000	NIPPLE, GREASE	4	4	4					
29	1	26013-080162	BOLT	2	2	2					
30	1	26013-100202	BOLT	2	2	2					
31	1	26013-100252	BOLT	1	1	1					
32	1	26116-080202	BOLT	3	3	3					
32-1	1	26116-080252	BOLT	3	3	3					N
		(A=M35241) (B=M35241) (C=M35241)									
33	1	26116-100802	BOLT	1	1	1					
34	1	26716-100002	NUT	2	2	2					
35	1	26756-060002	NUT	1	1	1					

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.15A.  
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.16A.  
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.82. BLADE

(A)=VIO20-3(US)  
 (B)=VIO20-3(AS)  
 (C)=VIO20-3(NZ)

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



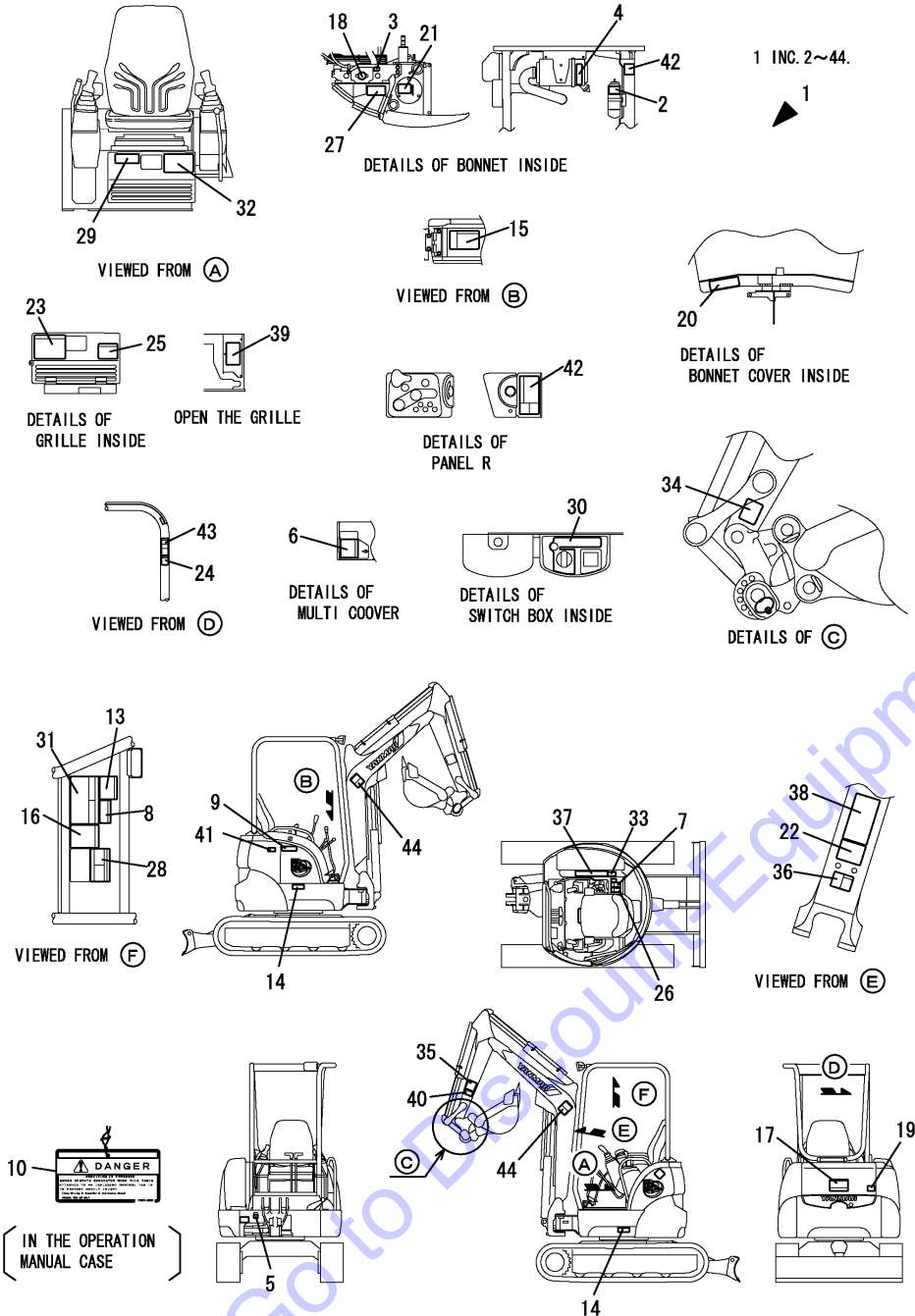
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81670	SPACER	2	2	2					
2	1	172A23-94090-1	BLADE ASSY	1	1	1					1
2-1	1	172A23-94090-2	BLADE ASSY	1	1	1					S 1
2-2	1	172A23-94091-2	BLADE ASSY (A=M/#32643) (B=M/#32643) (C=M/#32643)	1	1	1					N 1
2-3	1	172A23-94092	BLADE ASSY (A=M45001) (B=M45001) (C=M45001)	1	1	1					N
3	2	172168-72240	BUSH 38X50X40	2	2	2					
4	2	172168-81270	SEAL,DUST 38X50X4	4	4	4					
5A	1	172437-03510	LABEL,HOOK	2	2	2					2
5A-1	1	172437-03511	LABEL, HOOK US (A=M/#31399) (B=M/#31399) (C=M/#31399)	2	2	2					N 2
6	1	172422-94210	PIN 38X 114	2	2	2					
7	1	172141-94271-W	PIN 38-94	2	2	2					
8	1	172124-94310-2	PLATE, LOCK	2	2	2					
8-1	1	172124-94310-5	PLATE, LOCK (A=M/#32643) (B=M/#32643) (C=M/#32643)	2	2	2					S
9	1	22157-120000	WASHER 12	2	2	2					
10	1	24761-020000	NIPPLE PT1/8,GREASE	2	2	2					
11	1	24761-040000	NIPPLE B,GREASE	2	2	2					
12	1	26013-100252	BOLT W/WASHER M10X25	4	4	4					
13	1	26013-120302	BOLT W/WASHER M12X30	2	2	2					
14	1	933171-29751	SHIM SET,38X(0.8,1.2)	4	4	4					

Remarks  
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.  
 REF.NO.5A.  
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.85. LABEL KIT FOR CANADA(OPTIONAL)

(A)=VIO20-3(US)  
(B)=VIO20-3(AS)  
(C)=VIO20-3(NZ)

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-03020	LABEL KIT(VIO20-3)CA	1							
2	2	172A37-03150	LABEL,SUB-TANK CA	1							
3	2	172A37-03160	LABEL,ANTI-FREEZE CA	1							
4	2	172A37-03180	LABEL J, AIR CLEANER	1							
5	2	172A37-03190	LABEL, GREASE	1							
6	2	172A37-03220	LABEL,ADJUST CRAWLER	1							
7	2	172A37-03231	LABEL,MANUAL CA.	1							
8	2	172A37-03241	LABEL,SLOPE CA.	1							
9	2	172A37-03250	LABEL,RESERVOIR CA	1							
10	2	172469-03261	TAG,SERVICING ASSY	1							
13	2	172A37-03271	LABEL,TRANSPORT CA.	1							
14	2	172A37-03280	LABEL,GREASE CYL CA	2							
15	2	172A37-03290	LABEL,BATTERY CA	1							
16	2	172A37-03300	LABEL,NEWTRAL CA	1							
17	2	172A37-03310	LABEL,SWING AREA CA	1							
18	2	172469-03320	LABEL,RADIATOR CAP	1							
19	2	172A37-03330	LABEL,ENGINE COVER	1							
20	2	172A37-03350	LABEL,SILENCER CA	1							
21	2	172469-03360	LABEL,OIL	1							
22	2	172A37-03360	LABEL,STERRING CA	1							
23	2	172469-03370	LABEL,OIL WATER	1							
24	2	172A37-03370	LABEL,ROPS CA	1							
25	2	172469-03400	LABEL,GREASING	1							
26	2	172A37-03400	LABEL,LEVER LOCK CA	1							
27	2	172A37-03410	LABEL,RADIATOR CA	1							
28	2	172A37-03430	LABEL,2 WAY CA	1							
29	2	172A36-03471	LABEL,SPEC	1							
30	2	172469-03480	LABEL,SWITCH	1							
31	2	172A37-03490	LABEL,LIFT Q CA	1							
32	2	172A37-03500	LABEL,SUPPORT CA	1							
33	2	172A37-03520	LABEL,PIN CA	1							
34	2	172A37-03530	LABEL,FINGER CA	1							
35	2	172469-03540	LABEL,OPERATION PIN	1							
36	2	172A37-03540	LABEL,SAND CA	1							
37	2	172469-03550	LABEL,OP HITCH	1							
38	2	172A37-03550	LABEL,WARNING HITCH	1							
39	2	172469-03610	LABEL,FUSE	1							
40	2	172A37-03680	LABEL,LOCK PIN CA	1							
41	2	172469-03710	LABEL,BONNET OPEN	1							
42	2	172A37-03710	LABEL,ENGROOM CA	2							
43	2	172A37-03720	LABEL,SEAT BELT CA	1							
44	2	172A37-03730	LABEL,BOOM CA	2							



## Part Number Index

All parts are stipulated in the order of part numbers.

(Depending on the area in which the part is used.)

This index will display the location of the part according to each part number.

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## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
101720-55750	10	28
102103-55520	10	23
104200-11920	9	16
104200-55321	10	19
104200-55330	10	20
104200-55341	10	21
104200-55750	10	29
106990-44660	9	28
110250-55610	10	24
114110-07760	1	51
	3	24
	62	28 C
114110-07761	1	51 -1
	3	24 -1
	62	28 C-1
119247-77100	13	30
119255-44660	8	22
119650-77910	13	32
119802-77200	13	31
119808-12540	5	12
119813-44510	8	14
121250-49121	8	3
121256-44600	8	21
121257-55720	10	25
121257-55731	10	26
124064-55510	10	22
124450-44550	8	20
124764-44810	1	28
	8	19 A
124764-44920	1	29
	8	5 A
124766-59050	8	23
	9	29
	10	33
124970-77920	13	49
129211-77920	13	33
129335-55700	10	18
129612-52100	10	17
129619-12520	5	11
171081-55910	10	30
172010-01640	77	1
	78	1
172068-28490	22	30
		38
	26	1
172110-36010	17	10
	67	8
172110-45050	22	33
		41
172110-76170	71	6 -2

PARTS No.	Fig.	Ref.No.
172110-76170-1	71	6
172110-76170-3	71	6 -1
172116-76381	65	10
172122-14620	10	10
172122-37844	18	12
		32
172122-46590	22	24
	24	30
	26	31
172122-70350	50	26
		27
172122-73430	50	38
172122-73470	50	51
172122-73480	50	79
172122-79930	10	34
	63	20
	65	23
	66	45
	69	16
		16 -1
		17
	71	17
	73	29
172123-76121	66	2
	68	6
	72	1
	73	1
		2
		3
172124-46200	21	3
	22	16
	24	9
	26	30
	81	2
172124-65480	37	19
172124-94310-2	82	8
172124-94310-5	82	8 -1
172125-03950	1	27
	5	12 A
172125-03951	1	27 -1
	3	25
	5	12 A-1
172126-11510	5	5 -1B
		6 -1B
	8	31
		31 -1
	10	16 -1
	12	1
		1 -1
	65	17

PARTS No.	Fig.	Ref.No.
172126-11510	73	14
172126-16540	10	15
	11	21
172137-12270	6	4
172137-16560	10	16
	12	19
172137-37850	18	15
		35
172137-46040	44	1
	45	1
	46	1
172137-46210	15	10
172137-69850	34	16
172137-70490	51	10
172137-70570	51	11
172137-70580	51	12
172137-72453	46	14
172137-73860	52	5
172137-76580	71	7
172141-03360	1	20
172141-37140	18	6
		26
172141-41340	22	1
172141-41360	20	5
	24	5
	25	5
172141-41370	21	6
	22	3
		6
	24	2
	26	22
		25
172141-50762-2	30	1
172141-50762-3	30	1 -1
172141-50763-1	30	1 -2
172141-57650	29	12
		12 -1
172141-70110	50	21
172141-70150	50	23
172141-70160	50	24
172141-70450	50	16
172141-71520	41	66
	42	84
172141-71550	41	67
		132
	42	85
		129
172141-71560	41	68
	42	86
172141-72250	43	26

PARTS No.	Fig.	Ref.No.
172141-72250	45	12
	46	13
	47	12
172141-72420	43	30
	47	16
	48	13
172141-72540	46	25
172141-72561	45	21
		26
	46	19
		23
	79	6
172141-73220	41	69
	42	87
172141-73230	41	70
	42	88
172141-73770	62	4
172141-74430	41	39
		118
	42	57
		118
172141-76180	64	6
	65	3
		5
	66	10
	68	9
	71	3
	73	4
		11
172141-76181	64	6 -1
	65	3 -1
		5 -1
	66	10 -1
	68	9 -1
	71	3 -1
		3 -2
	73	4 -1
		11 -1
172141-76220	66	18
172141-76920	64	3 -2
	65	11
172141-77260	51	36
172141-77400	51	51
172141-77800	74	2
172141-82270	77	8
	78	8
	79	8
172141-84403-1	79	5
172141-84403-3	79	5 -1
172141-84403-Y	79	5 -2

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172141-84601	77	15
	78	15
	79	10
	80	17
		28
	81	18
172141-86252	80	21
172141-94271-W	82	7
172142-62300	31	13
172142-62301	31	13 -1
172142-72560	44	25
172142-73800	52	7
172142-74590	41	89
172142-74600	41	92
172142-74650	41	90
172142-74660	41	93
172142-74670	41	99
	42	96
172142-76181	63	3
		5
	65	7
	69	2
172142-76270	70	4
172142-76950	70	16
172142-76950-6	70	16 -1
172142-76950-Y	70	16 -2
172142-77040	70	5
172143-72400	47	13
	48	10
172146-41320	31	1
172146-61370	31	8
172146-73730	62	5
172146-82910	76	14
172147-70120	50	22
172147-70220	50	3
172147-76260	65	9
172147-76271	66	19
172148-70301	50	14
		25
172148-72941	44	26
172148-73350	51	13
172148-73870	52	9
172149-66550	40	2
		2 -1
172151-77801	74	3
172156-11150	33	8
172156-65690	38	32
172156-72400	49	2
172156-81430	8	30
172156-84440	49	7

PARTS No.	Fig.	Ref.No.
172157-03740	1	26
	28	20 A
172157-03741	1	26 -1
	28	20 A-1
172157-13381	8	8
172157-45840	14	7
172157-45990	24	22
	26	7
172157-58830	59	3
172162-12480	25	1
172162-14200	9	5
172162-46690	21	9
172162-62540	35	5
		10 -1A
		11 -1A
172162-70780	50	17
172162-76131	64	5
	65	1
	67	3
172162-76180	66	12
		14
172162-76181	66	12 -1
		14 -1
	72	2 -2
172164-45970	23	3
172164-61250	31	4
	39	10
172164-62431	47	26 -1
172164-66170	37	20
	38	9
172164-66480	36	21
	39	5
172164-66800	31	11
	39	6
172164-73030	41	79
172164-73040	41	80
172164-73380	41	36
	42	54
172164-73390	41	37
	42	55
172164-73470	41	33
	42	51
172164-73490	41	81
172164-73500	41	82
172164-73510	41	38
	42	56
172164-73670	41	29
	42	47
172164-76131	66	3
172164-76330	66	20

PARTS No.	Fig.	Ref.No.
172164-81670	76	7
	77	9
	78	9
	82	1
172165-12140	6	1 A
172165-45970	20	16
172165-46340	24	23
	26	9
172165-47550	21	12
172165-47980	21	15
172165-47990	21	16
172165-53480	28	13
172165-53500	28	14
		24
172165-65460	33	11
172165-66980	35	18
172165-71200	41	3
	42	3
	83	3
	84	3
172165-72310	47	21
172165-74740	41	95
172165-78412	66	32
172165-79810	73	28
172165-82520	75	8
172165-82530	75	9
172165-82550	75	10
172165-82560	75	11
172165-82570	75	12
172165-82580	75	13
		14
	76	11
	77	12
	78	12
172165-82590	75	15
		16
	76	12
	77	13
	78	13
172165-82600	75	17
		18
	76	13
	77	14
	78	14
172168-65750	62	8
172168-71101	83	1
	84	1
172168-71101-3	41	1
	42	1
172168-71101-4	41	1 -1

PARTS No.	Fig.	Ref.No.
172168-71101-4	42	1 -1
172168-71500	41	56
	42	74
172168-71510	41	57
		121
	42	75
		121
172168-71520	41	58
	42	76
172168-71530	41	59
	42	77
172168-71950	50	18
172168-71951	50	18 -1
172168-72020	48	2
172168-72240	48	16
		20
	82	3
172168-72390	43	20
172168-72400	76	2
172168-72410	43	17
		21
	44	15
		22
172168-73580	51	17
172168-73590	51	19
172168-73600	51	21
172168-81270	48	17
		21
	82	4
172168-81410	76	4
172171-14610	10	5
172171-54750	28	22
172171-65850	31	10
172171-72130	44	12
172171-81270	77	3
	78	3
172171-81500	79	1
	80	16
		26
172173-29100-1	17	1
172173-29100-2	17	1 -1
172173-37500-2	17	11
172173-37500-3	17	11 -1
172173-38200	19	7
		18
172173-38210	19	8
		19
172173-38220	19	10
		21
172173-38300	19	11

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172173-38300	19	22
172173-61190-2	30	7
172173-61190-3	30	7 -1
172173-61191-1	30	7 -2
172173-72330	44	17
172173-72352	44	24
172173-72550	45	23
172173-73510	51	14
172173-73520	51	15
172173-73570	51	16
172173-73580	51	18
172173-73590	51	20
172173-73600	51	22
172173-73690	51	23
172173-73700	51	24
172173-76101	64	3
	68	3
172173-76102	64	3 -1
	68	3 -1
172175-17120	12	11
172175-64810	39	11
172175-72550	48	14
172175-73700	62	2
172175-73710	62	3
172175-76640-1	70	12
172175-76640-2	70	12 -1
172175-76640-Y	70	12 -2
172175-76750-1	70	15 -1
172175-76750-5	70	15
172175-76750-Y	70	15 -2
172176-68210	76	5 -1
		5 -2
172179-13211	7	8
172179-73130	41	20
	42	38
172179-73190	41	21
	42	39
172179-73220	41	14
	42	14
172179-73250	41	17
	42	35
172179-73270	41	23
	42	41
172179-73280	41	24
		116
	42	42
		116
172179-73400	41	41
	42	59
172179-73430	41	42

PARTS No.	Fig.	Ref.No.
172179-73430	42	60
172179-73460	41	43
	42	61
172179-73510	41	60
	42	78
172179-73540	41	61
		122
	42	79
		122
172183-03280	1	10
172183-14250	9	13
172183-37510	17	12
172183-37520	17	13
172183-57620	29	10
172183-57630	29	11
172183-65560	33	6
172183-73510	50	42
172183-73520	50	43
172183-73560	50	44
172183-73570	50	45
172183-73660	50	46
172183-73670	50	77
172183-73780	50	78
172183-74820	67	1
172183-74820-5	70	1
172183-74821	70	1 -1
172183-74821-3	70	1 -2
172183-74821-4	67	1 -1
172183-74822	67	1 -2
172183-74822-3	70	1 -3
172183-74822-Y	70	1 -4
172183-75410	62	13
172183-76200	73	6
172183-76250-1	70	10
172183-76250-2	70	10 -1
172183-76250-Y	70	10 -2
		27
172183-81160	77	2
	78	2
172183-81170	76	5
172186-13810	10	1
172186-72480	43	32
172186-77100	74	1
172187-16560	13	1
172187-17070	13	3
172187-17080	13	4
172187-17090	13	5
172187-17100	13	2
172187-17220	12	12
172187-17280	13	10

PARTS No.	Fig.	Ref.No.
172187-17280	13	44
172187-17320	13	12
172187-17341	13	14
172187-17350	13	15
172187-17360	13	16
172187-17371	13	17
172187-17380	13	18
172187-17470	13	22
172187-17480	13	23
172187-17540	16	3
172187-17560	13	25
		45
172187-17570	13	26
		46
172187-45651	24	20
	26	4
172187-45760	24	21
	26	5
172187-45870	22	8
172187-45880	22	9
172187-61421	36	4
172187-64800	36	17
172187-64831	36	36
172187-64900	15	12
172187-65210	37	16
172187-75860	41	105
	42	102
172187-75870	41	106
	42	103
172187-75880	41	107
		130
	42	104
		125
172187-75910	41	108
	42	105
172187-75920	41	109
	42	106
172187-76210	72	2
172187-76211	66	14 -2
	72	2 -1
172187-76690-Y	70	10 -3
172312-17260	64	1
172312-74790	50	80
172421-37701	18	36
172421-37702	18	36 -1
172421-37703	18	36 -2
172421-37851	18	16
172421-37852	18	16 -1
172421-37853	18	16 -2
172421-38110	19	2

PARTS No.	Fig.	Ref.No.
172421-38110	19	13
172421-38601	19	23
172421-72610-1	48	15 -1
172421-72610-2	48	15 -2
172421-72620	48	18 -1
172421-72700-1	48	1
172421-72700-2	48	1 -1
172421-72770	48	22
172421-73350	50	29
172421-73400	50	49
172421-76100	68	5
172421-78120	68	15
172421-78131	68	16
172422-72790-2	48	24 -1
172422-72790-3	48	24
172422-72791-5	48	24 -2
172422-73140	83	10
	84	10
172422-73160	83	17
	84	17
172422-73170	83	19
		61
	84	19
		65
172422-73200	83	21
	84	21
172422-73220	83	22
	84	22
172422-73280	83	23
	84	23
172422-73290	83	24
	84	24
172422-73500	83	25
	84	25
172422-73510	83	26
		62
	84	26
		66
172422-73520	83	27
	84	44
172422-73530	83	28
	84	45
172422-73540	83	29
	84	46
172422-73550	83	30
		39
	84	28
		47
172422-73560	83	31
	84	48

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172422-73570	83	32
		63
	84	49
		67
172422-73580	83	34
	84	51
172422-73590	83	36
	84	53
172422-73610	83	37
	84	54
172422-73620	83	40
	84	29
172422-73630	83	41
	84	30
172422-73640	83	43
	84	32
172422-73650	83	45
	84	34
172422-73660	83	46
	84	35
172422-73670	83	47
	84	36
172422-73700	83	60
	84	64
172422-76100	63	2
172422-76130	65	2
172422-76140	66	5
172422-76180	67	4
172422-78200	65	20
172422-78210	64	11
172422-94210	82	6
172423-78940	64	10 -1
172433-64511	36	34
172434-61190	38	21
172437-03241	1	49
	31	11 A
172437-03242	1	49 -1
	31	11 A-1
172437-03250	1	30
	3	3
172437-03251	1	30 -1
	3	3 -1
172437-03252	1	30 -2
	3	3 -2
172437-03300	1	31
	3	4
	36	9 C
172437-03301	1	31 -1
	3	4 -1
	36	9 C-1

PARTS No.	Fig.	Ref.No.
172437-03302	1	31 -2
	3	4 -2
	36	9 C-2
172437-03310	1	32
	3	5
	40	1 C
172437-03311	1	32 -1
	3	5 -1
	40	1 C-1
172437-03312	1	32 -2
	3	5 -2
	40	1 C-2
172437-03321	1	33
	3	6
	62	28 B
172437-03322	1	33 -1
	3	6 -1
	62	28 B-1
172437-03341	1	34
	3	7
	40	1 D
172437-03342	1	34 -1
	3	7 -1
	40	1 D-1
172437-03343	1	34 -2
	3	7 -2
	40	1 D-2
172437-03351	1	35
	3	8
	30	11 A
		13 A
172437-03352	1	35 -1
	3	8 -1
	30	11 A-1
		13 A-1
172437-03360	1	36
	3	9
	38	19 B
172437-03361	1	36 -1
	3	9 -1
	38	19 B-1
172437-03371	1	37
	3	10
	40	1 E
172437-03372	1	37 -1
	3	10 -1
	40	1 E-1
172437-03380	1	38
	3	11
	37	13 D

PARTS No.	Fig.	Ref.No.
172437-03381	1	38 -1
	3	11 -1
	37	13 D-1
172437-03390	1	39
	3	12
	39	7 A
172437-03391	1	39 -1
	3	12 -1
	39	7 A-1
172437-03401	1	40
	3	13
	37	13 E
172437-03402	1	40 -1
	3	13 -1
	37	13 E-1
172437-03411	1	41
	3	14
	28	25 A
172437-03421	1	42
	3	15
	37	13 F
172437-03422	1	42 -1
	3	15 -1
	37	13 F-1
172437-03431	1	43
	3	16
	76	4 B
172437-03432	1	43 -1
	3	16 -1
	76	4 B-1
172437-03440	1	44
	3	17
	40	1 F
172437-03441	1	44 -1
	3	17 -1
	40	1 F-1
172437-03450	1	45
	3	18
	40	1 G
172437-03451	1	45 -1
	3	18 -1
	40	1 G-1
172437-03460	1	46
	3	19
	76	4 C
172437-03461	1	46 -1
	3	19 -1
	76	4 C-1
172437-03470	1	47
	3	20

PARTS No.	Fig.	Ref.No.
172437-03470	36	9 D
172437-03471	1	47 -1
	3	20 -1
	36	9 D-1
172437-03500	1	21
	38	19 A
172437-03501	1	21 -1
	38	19 A-1
172437-03510	1	22
	77	8 A
	78	8 A
	82	5 A
172437-03511	1	22 -1
		22 -2
	77	8 A-1
		8 A-2
	78	8 A-1
		8 A-2
	82	5 A-1
172437-03530	1	23
	36	9 B
172437-03600	1	48
	3	21
	40	1 H
172437-03601	1	48 -1
	3	21 -1
	40	1 H-1
172437-03610	1	24
	59	19 A
172437-03620	1	25
	59	19 B
172437-74711	59	5
172437-74720	59	6
172437-74732	59	7
172438-03300	1	17
	34	6 A
172441-44320	35	15
172441-74030	60	2
		12
172441-74040	60	3
		13
172441-74050	60	14
172444-13210	8	1
172444-14130	9	23
	11	13
172444-14200	9	6
172444-14260	9	17
172444-14270	9	18
172444-14410	9	27
172444-14450	9	7

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172444-14460	9	8
172444-14470	9	9
172444-14480	9	10
172444-14490	9	11
172444-16110	11	1
172444-54910	39	11 -1
172444-64730	37	5
172444-73802	52	1
172444-73803	52	1 -1 1 -2
172444-73810	52	2
172444-73831	52	3
172444-73840	52	4
172444-73880	52	6
172444-76150	66	6
172444-82990	76	15
172446-13330	61	3
172446-75250	62	11
172447-14160	9	4
172447-17140	12	6
172447-73840	52	8 -1
172447-74221	56	12
172447-74230	56	13 15
172447-75600	62	15
172448-45800-1	26	6
172448-45800-3	26	6 -1
172448-54120	28	21
172448-72650	43	18 22 44 47
172448-73180	83	20 84
172448-73190	83	9 84
172448-81610	45	22 27 46 77 78 79
172448-82530-1	80	8
172448-82530-2	80	8 -1
172448-82570-1	80	11

PARTS No.	Fig.	Ref.No.
172448-82570-3	80	11 -1
172448-82580	80	13
172448-82590	80	14
172448-82950	80	10
172448-82950-3	80	10 -1
172448-82960	80	12
172449-72321	45	13
172449-72410	45	16
172450-73110	83	7 84
172450-73120	83	12 84
172450-73130	83	13 84
172450-73330	50	28
172450-73510	50	64
172450-73550	50	75
172450-73551	50	75 -1
172450-73620	50	4
172455-46890	21	10
172455-46950	21	11
172455-63660	39	4 -1
172455-64200	36	1
172455-64590	36	3 A 3 A-1
172455-64600	36	2
172455-64610	36	3
172455-64710	36	3 B 3 B-1
172455-65230	38	2
172455-75290	62	16
172455-75300	62	17
172455-75330	62	12
172455-76220	72	4
172455-79770	69	13 15
172456-08600	36	38
172456-11500	5	7
172456-11510	5	8
172456-11590	5	9
172456-11600	5	10
172456-13120	7	5
172456-13140	7	6
172456-13150	7	7
172456-13310	8	6 C
172456-14151	9	3
172456-14152	9	3 -1
172456-14300	9	19
172456-14330	9	21
172456-14340-1	9	22

PARTS No.	Fig.	Ref.No.
172456-14340-2	9	22 -1
172456-14341-1	9	22 -2
172456-14610	10	6
172456-14630	10	11
172456-16100	11	12
172456-16101	11	12 -1
172456-16200	11	3
172456-16210	11	6
172456-16530	12	17
172456-17400-1	16	1
172456-17400-2	16	1 -1
172456-17401-2	16	1 -2
172456-17401-Y	16	1 -3
172456-37100-1	18	3
172456-37100-2	18	3 -1
172456-37110-1	18	23
172456-37110-2	18	23 -1
172456-37120	18	4 24
172456-37121	18	4 -1 24 -1
172456-37130	18	5 25
172456-37140	18	7 27
172456-37141	18	7 -1 27 -1
172456-37320	17	5
172456-37500-1	17	15
172456-37500-2	17	15 -1
172456-37801	18	11 31
172456-38100-1	19	1
172456-38100-2	19	1 -1
172456-38110-1	19	9
172456-38110-2	19	9 -1
172456-38120-1	19	12
172456-38120-2	19	12 -1
172456-38130-1	19	20
172456-38130-2	19	20 -1
172456-38300-1	19	24
172456-38300-2	19	24 -1
172456-38310-1	19	29
172456-38310-2	19	29 -1
172456-45160	24	28
172456-50102-1	29	1
172456-50103-1	29	1 -2
172456-50103-2	29	1 -1
172456-50104-1	29	1 -3
172456-50105	29	1 -4

PARTS No.	Fig.	Ref.No.
172456-50800-1	29	5
172456-50800-2	29	5 -1
172456-50830-1	29	6
172456-50830-2	29	6 -1
172456-53700	28	15
172456-57600	29	9
172456-61100-1	30	2
172456-61100-2	30	2 -1
172456-61110-1	30	3
172456-61110-2	30	3 -1
172456-61130-1	30	5
172456-61130-2	30	5 -1
172456-61151	31	2
172456-61152	31	2 -1
172456-61152-1	31	2 -2
172456-61153-1	31	2 -3
172456-61270-1	30	13
172456-61270-2	30	13 -1
172456-61310	30	11
172456-61340	31	5
172456-61350	31	6
172456-61360	31	7
172456-61400-1	33	1
172456-61400-3	33	1 -1
172456-61400-Y	33	1 -2
172456-61480	33	3
172456-61490	33	4
172456-61500	33	5
172456-61691	33	7
172456-61963-1	32	1
172456-61963-2	32	1 -1
172456-61964-2	32	1 -2
172456-61964-Y	32	1 -3
172456-62100-1	34	1
172456-62100-2	34	1 -1
172456-62200	34	3
172456-64640	31	14
172456-64710	36	8
172456-65150	37	14
172456-65150-1	37	14 -1
172456-65171	37	15
172456-65302-1	38	20
172456-65302-3	38	20 -1
172456-65302-Y	38	20 -2
172456-65441	38	26
172456-65450	38	27
172456-65461	38	28
172456-65511-1	38	4
172456-65511-2	38	4 -1
172456-65511-3	38	4 -2

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172456-65520	38	29
172456-65790	39	3
172456-65860	39	4
172456-65890	38	24
172456-72010	43	5
172456-72020	44	6
172456-72031	45	7
172456-72050	47	2
172456-72190	43	23
	47	11
172456-72200-1	43	1
172456-72200-2	43	1 -1
172456-72200-N	43	1 -2
172456-72250-1	43	16 -1
172456-72250-3	43	16 -2
172456-72250-N	43	16 -3
172456-72260	43	19 -1
172456-72580	45	28
172456-72700-1	47	1
172456-72700-2	47	1 -1
172456-72790-1	47	24
172456-72790-2	47	24 -1
172456-72830	47	26
172456-72850-1	47	17 -1
172456-72850-2	47	17 -2
172456-72860	47	20 -1
172456-73070	41	112
	42	109
172456-73100	41	5
172456-73110	41	6
	42	6
172456-73120	41	7
	42	7
172456-73130	41	8
	42	8
172456-73140	41	9
		113
	42	9
		110
172456-73150	41	10
		114
	42	10
		111
172456-73160	41	11
	42	11
172456-73170	41	12
	42	12
172456-73180	41	13
	42	13
172456-73280	41	22

PARTS No.	Fig.	Ref.No.
172456-73280	42	40
172456-73290	41	25
	42	43
172456-73300	50	1
172456-73301	50	1 -1
172456-73302	50	1 -2
172456-73310	51	1
172456-73320	50	89
172456-73330	50	52
172456-73331	50	52 -1
172456-73340	50	20
172456-73350	50	30
172456-73351	50	30 -1
172456-73360	50	31
172456-73370	50	32
172456-73380	50	33
172456-73390	50	34
172456-73400	50	35
172456-73410	50	36
172456-73420	50	37
172456-73430	50	39
172456-73440	50	40
172456-73450	50	41
172456-73460	50	50
172456-73461	50	50 -1
172456-73500	50	63
172456-73510	50	65
172456-73520	50	66
172456-73540	50	67
172456-73570	50	76
172456-73580	41	83
	42	18
172456-73590	41	84
	42	19
172456-73600	41	27
	42	45
172456-73610	41	28
		117
	42	46
		117
172456-73650	41	40
	42	58
172456-73660	41	44
	42	62
172456-73670	41	45
	42	63
172456-73680	41	46
	42	64
172456-73690	41	47
	42	65

PARTS No.	Fig.	Ref.No.
172456-73700	41	48
	42	66
172456-73710	41	49
	42	67
172456-73720	41	50
	42	68
172456-73730	41	51
	42	69
172456-73740	41	55
	42	73
172456-73750	41	62
	42	80
172456-73770	41	63
	42	81
172456-73790	41	65
	42	83
172456-73800	41	71
	42	89
172456-73810	41	72
	42	90
172456-73840	41	73
	42	91
172456-73850	41	74
	42	92
172456-73860	41	78
172456-73870	42	20
172456-73880	41	85
	42	21
172456-73890	42	22
172456-73900	41	86
	42	23
172456-73910	42	24
172456-73920	42	25
172456-73930	41	87
		125
	42	26
		112
172456-73940	42	27
172456-73950	42	28
172456-73960	41	88
		126
	42	29
		113
172456-73970	42	30
172456-73980	50	33 -1
172456-74101	53	1
172456-74102	53	1 -1
172456-74110	58	1
172456-74120	58	2
172456-74130	57	2

PARTS No.	Fig.	Ref.No.
172456-74140	57	3
172456-74150	56	2
172456-74160	56	4
172456-74170	55	1
172456-74180	55	5
172456-74190	54	1
172456-74230	54	5
172456-74240	54	15
172456-74250	54	20
172456-74260	53	3
172456-74270	57	16
172456-74280	53	17
	54	25
172456-74290	56	16
172456-74310	57	1
172456-74320	56	1
172456-74330	56	14
172456-74350	55	14
172456-74370	54	14
172456-74390	53	16
172456-74400	55	15
172456-74410	53	6
172456-74420	53	7
172456-74430	53	2
172456-74440	53	15
172456-74450	57	18 -1
172456-74460	57	17 -1
172456-75430	41	100
	42	97
172456-75440	41	101
	42	98
172456-75450	41	102
	42	99
172456-75460	41	103
	42	100
172456-75480	41	104
	42	101
172456-76250	70	2
172456-76260	70	3
172456-76600-1	70	11
172456-76600-2	70	11 -1
172456-76600-Y	70	11 -2
172456-76601-Y	70	11 -3
172456-76650-1	70	13
172456-76650-2	70	13 -1
172456-76650-Y	70	13 -2
172456-76651-Y	70	13 -3
172456-76700	70	6
172456-76800-2	67	9
172456-76800-3	67	9 -1

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172456-76801	67	9 -2
172456-76880-2	67	10
172456-76880-3	67	10 -1
172456-77100	51	2
172456-77110	51	3
172456-77130	51	7
172456-77140	51	9
172456-77150	51	25
172456-77160	51	26
172456-77170	51	27
172456-77180	51	28
172456-77190	51	29
172456-77200	51	30
172456-77210	51	31
172456-77220	51	32
172456-77230	51	33
172456-77240	51	34
172456-77250	51	35
172456-77270	51	37
172456-77280	51	38
172456-77290	51	39
172456-78120	63	18
172456-78140	64	10
172456-78150	65	18
172456-78160	66	26
172456-78161	66	26 -1
172456-78170	65	19
172456-78180	69	8
172456-78190	69	9
172456-78191	69	9 -1
172456-78200	65	21
172456-78210	65	22
172456-78220	69	10
172456-78230	69	11
172456-78241	69	12
172456-78251	69	14
172456-78260	66	27
172456-78270	66	28
172456-78291	68	17
172456-78301	68	18
172456-78312	68	19
172456-78910	70	25
172456-78970	67	16
172456-81450	76	6
172456-81490-1	77	4
172456-81490-3	77	4 -1
172456-81491-2	77	4 -2
172456-81491-Y	77	4 -3
172456-81650	77	7
	78	7

PARTS No.	Fig.	Ref.No.
172456-81710	76	8
172456-81740	76	9
172456-81770	77	10
	78	10
172456-81810	77	11
	78	11
172456-81900	75	1
172456-82300-1	75	3
172456-82300-2	75	3 -1
172456-82300-Y	75	3 -2
172456-82330	75	4
172456-82340	75	5
172456-82360	75	6
172456-82361	75	6 -1
172456-82400-2	75	7
172456-82400-3	75	7 -1
172456-82501-1	80	1
172456-82501-3	80	1 -1
172456-82502-2	80	1 -2
172456-82690-2	80	2 -1
172456-82690-3	80	2
172456-82691-2	80	2 -2
172456-82701-1	79	2
172456-82701-3	79	2 -1
172456-82701-Y	79	2 -2
172456-82710-1	79	3
172456-82710-2	79	3 -1
172456-82710-Y	79	3 -2
172456-82831	79	4
172456-82900	80	15
172457-72050	46	7
172457-72190	43	24
172457-72200	43	25
172457-72230-1	43	2
172457-72230-2	43	2 -1
172457-72230-N	43	2 -2
172457-72240-1	43	3
172457-72240-2	43	3 -1
172457-72240-N	43	3 -2
172457-74190	57	4
172458-03160	1	5
	37	13 C
172458-03220	1	13
	35	6 A
172458-03240	1	14
	2	5
	26	6 A
	81	15 A
172458-11552	37	3
172458-12100	6	1

PARTS No.	Fig.	Ref.No.
172458-14202	9	12
172458-14203	9	12 -1
172458-14340	9	25
172458-14370	9	26
172458-16110	11	2
172458-16140	11	4
172458-16300	11	16
172458-16550	12	5
172458-16561	12	20
172458-16562	12	20 -1
172458-17400	16	5
172458-17410	16	7 -1
172458-17410-1	16	7
172458-17410-Y	16	7 -2
172458-17420	16	6
172458-17450	16	2
172458-17501	13	8
172458-45180	24	1
172458-45180-1	24	1 -1
172458-45200	24	4
172458-45200-1	24	4 -1
172458-45230	24	7
	26	20
172458-45230-1	24	7 -1
	26	20 -1
172458-45250	22	23
172458-45510	20	2
172458-45510-1	20	2 -1
172458-45521	24	18
172458-45521-1	24	18 -1
172458-45540	24	19
	26	3
172458-45540-1	24	19 -1
	26	3 -1
172458-45720	23	2
172458-45720-1	23	2 -1
172458-45800	23	9
172458-45850	21	2
172458-45920	25	4
172458-45920-1	25	4 -1
172458-45950	25	7
172458-46150	26	29
172458-46150-1	26	29 -1
172458-46720	13	27
	35	1
		2
		3
		4
172458-46950	20	17
172458-47640	21	14

PARTS No.	Fig.	Ref.No.
172458-47680	20	18
172458-47680-1	20	18 -1
172458-47681	20	18 -2
172458-47710	20	19
172458-50480-1	29	2
172458-50480-2	29	2 -1
172458-53330	28	6
172458-53370	28	5
172458-61110-1	30	4
172458-61110-2	30	4 -1
172458-61150-2	30	6
172458-61150-3	30	6 -1
172458-61261	30	12
172458-61300	31	12
172458-61500	38	22
172458-62110	34	2
172458-62110-1	34	2 -1
172458-62430	34	14
172458-63100	35	6
172458-63120	35	7
172458-63130	35	8
172458-63140	35	9
172458-64140	33	10
172458-64590	36	13
172458-64600	36	14
172458-64610	33	18
172458-65050	37	6
172458-65060	37	7
172458-65070	37	9
172458-65080	37	10
172458-65271	37	17
172458-65540	38	6
172458-65560	38	7
172458-65600	38	30
172458-65610	38	31
172458-65640	38	8
172458-72740	47	19
172458-73570	83	33
	84	50
172458-73580	83	35
	84	52
172458-73620	83	38
172458-73630	83	42
	84	31
172458-73640	83	44
	84	33
172458-73660	83	51
	84	55
172458-73680	83	38 A
	84	37



## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172458-73690	83	38 B
	84	38
172458-73790	84	39
172458-73820	52	8
172458-74110	58	12
172458-74120	58	13
172458-74130	54	2
	55	2
	56	18
	57	19
	58	14
172458-74140	54	3
	55	3
	56	19
	57	20
	58	15
172458-74150	53	19
	54	16
	56	3
		20
	57	21
	58	3
		16
172458-74160	53	20
	54	17
	56	5
		21
	57	22
	58	4
		17
172458-74170	54	4
	55	4
	56	28
	57	23
	58	18
172458-74230	53	21
	54	18
	55	17
	56	6
	57	5
	58	5
172458-74240	53	22
	54	19
	55	18
	56	7
	57	6
	58	6
172458-74250	53	23
	54	21
	56	8

PARTS No.	Fig.	Ref.No.
172458-74250	57	7
	58	7
172458-74260	53	24
	54	22
	55	19
	56	9
	57	8
	58	8
172458-74290	53	4
	54	6
	55	6
	57	9
172458-74360	53	5
	54	7
	55	7
	57	10
172458-74380	57	18
172458-74390	57	24
172458-74420	56	17
172458-74430	56	22
172458-74460	54	8
	55	8
172458-74520	55	16
172458-74530	55	20
172458-74540	55	21
172458-74550	55	22
172458-74610	53	18
172458-74620	53	25
172458-74630	53	26
	54	23
	56	10
		23
	57	25
	58	9
		19
172458-74640	53	8
	54	9
	55	9
	57	11
172458-74650	53	9
	57	26
172458-74660	57	12
172458-74670	57	13
172458-74700	58	24
172458-74720	53	28
	54	26
	55	23
	56	29
	57	33
	58	25

PARTS No.	Fig.	Ref.No.
172458-74730	53	29
172458-74740	57	32
172458-74750	58	11
172458-74780	57	17
172458-75070	62	9
172458-76150	66	7
172458-76680-1	70	14
172458-76680-2	70	14 -1
172458-76680-Y	70	14 -2
172458-78091	63	16
172458-78290	66	29
172458-78300	66	30
172458-78310	66	31
172458-78530	66	33
172458-78540	66	34
172458-81751-1	76	10
172458-81751-2	76	10 -1
172458-81751-Y	76	10 -2
172458-81920	75	2
172458-82240-1	80	3
172458-82240-4	80	3 -1
172458-82260-1	80	4
172458-82260-4	80	4 -1
172458-82280	80	5
172458-82290	80	6
172460-13230	8	6 A
172460-13240	8	6 B
172460-16700	12	22
172460-72070	43	13
	47	8
	48	7
172460-75410-1	62	14
172460-75410-5	62	14 -1
172460-75410-Y	62	14 -2
172462-03320	1	18
172462-46230	26	8
172463-03290	1	16
	62	29 A
172463-03330	1	19
	38	24 A
172463-61600	30	15
172463-65410	38	25
172463-74511	60	1
172463-74521	60	11
172463-74530	60	4
		15
172463-74540	60	5
		16
172463-74551	60	6
		17

PARTS No.	Fig.	Ref.No.
172463-74561	60	7
		18
172463-74570	60	8
		19
172463-74580	60	10
172463-74590	60	9
172469-03121	1	2
	33	6 A
	62	28 A
172469-03131	1	3
	3	1
	40	1 A
172469-03132	1	3 -1
	3	1 -1
	40	1 A-1
172469-03140	1	4
	36	12 A
172469-03152	2	2
	4	1
	40	1 I
172469-03153	2	2 -1
	4	1 -1
	40	1 I-1
172469-03154	2	2 -2
	4	1 -2
	40	1 I-2
172469-03261	85	10
172469-03320	85	18
172469-03360	85	21
172469-03370	85	23
172469-03400	85	25
172469-03480	85	30
172469-03540	85	35
172469-03550	85	37
172469-03610	85	39
172469-03710	85	41
172469-12110	6	2
172469-12111	6	2 -1
172469-45100	22	2
172469-45100-1	22	2 -1
172469-45140	22	5
172469-45140-1	22	5 -1
172469-45360	26	27
172469-62210	34	4
172469-62210-2	34	4 -1
172469-62310	34	6
172469-62500	34	15
172469-64700	36	16
172469-65490	38	1
172469-65500	38	3

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172469-66300	40	1
172469-66300-1	40	1 -1
172469-72400-1	43	4
172469-72400-2	43	4 -1
172469-72400-N	43	4 -2
172469-72410	43	27
172469-76110	66	1
	67	2
172469-78100	73	15
172469-78110	73	16
172469-78120	73	17
172469-78130	73	18
172469-78140	73	19
172469-78150	73	20
172469-78170	73	22
172469-78180	72	6
172469-78190	72	7
172469-78200	72	8
172469-78210	73	23
172469-78220	73	24
172469-78230	73	25
172469-78240	73	26
172469-78510	70	21
172469-78520	70	22
172469-78530	70	23
172469-78540	70	24
172469-78550	67	13
172469-78560	67	14
172469-78570	67	15
172472-03140	1	9
	3	2
	36	12 D
172472-03141	1	9 -1
	3	2 -1
	36	12 D-1
172472-03160	1	6
	36	12 B
172472-03171	1	11
	36	9 A
172472-03230	2	4
	78	8 B
172472-03240	2	6
	4	2
	33	11 A
172472-03241	2	6 -1
	4	2 -1
	33	11 A-1
172472-03250	2	7
	33	11 B
172472-03260	2	8

PARTS No.	Fig.	Ref.No.
172472-03260	4	3
	78	8 C
172472-03261	2	8 -1
	4	3 -1
	78	8 C-1
172472-03270	2	9
	4	4
	76	4 D
172472-03271	2	9 -1
	4	4 -1
	76	4 D-1
172472-03280	2	10
	4	5
	76	4 E
172472-03281	2	10 -1
	4	5 -1
	76	4 E-1
172472-03290	2	11
	15	1 A
172472-03300	2	12
	15	1 B
172472-03330	2	13
	4	6
	78	8 D
172472-17200	14	1
172472-17200-Y	14	1 -1
172472-17250	14	2
172472-17260	14	3
172472-17400	14	5
172472-17400-1	14	5 -1
172472-17401-1	14	5 -2
172472-17401-Y	14	5 -3
172472-17470	14	6
172472-17470-1	14	6 -1
172472-17470-Y	14	6 -2
172472-45300	26	21
172472-45300-1	26	21 -1
172472-45330	26	24
172472-45400	20	1
172472-45400-1	20	1 -1
172472-45401	20	1 -2
172472-45500	26	2
172472-45500-1	26	2 -1
172472-45600	22	20
172472-45600-1	22	20 -1
172472-45601	22	29
172472-45601-1	22	29 -1
172472-45620	22	21
172472-45620-1	22	21 -1
172472-45621	22	37

PARTS No.	Fig.	Ref.No.
172472-45621-1	22	37 -1
172472-45661	22	15
172472-45700	23	1
172472-45700-1	23	1 -1
172472-45720	22	31
172472-45730	22	39
172472-45810	22	32
172472-45810-1	22	32 -1
172472-45850	22	40
172472-45850-1	22	40 -1
172472-46210	20	3
172472-46220	21	4
172472-46600	21	5
172472-47620	21	13
172472-47620-1	21	13 -1
172472-47621	21	13 -2
172472-63150	35	10 -1
172472-63160	35	11 -1
172472-63210	35	10
	10	-1B
172472-63220	35	11
	11	-1B
172472-64531-1	35	16
172472-64532-1	35	16 -2
172472-64532-2	35	16 -1
172472-64541-1	35	17
172472-64542-1	35	17 -2
172472-64542-2	35	17 -1
172472-64600	21	17
172472-74200	59	1
172472-78160	73	21
172472-78800	73	27
172478-65750	37	35
172480-13520	39	9
172480-75260	39	7
172482-13300	8	6
172487-11350	5	1
172487-11400	5	2
172487-12220	6	3
172487-13090	7	2
172487-13100	7	3
172487-13101	7	3 -1
172487-14520	10	10 -2
172487-37050-1	17	3 -2
172487-37050-2	17	3 -1
172487-45600	27	1
172487-45600-1	27	1 -1
172487-45900	25	3
172487-45900-1	25	3 -1
172487-53300-1	28	1

PARTS No.	Fig.	Ref.No.
172487-53300-2	28	1 -1
172487-53320	28	3
172487-53330	28	4
172487-53350-1	28	7
172487-53350-2	28	7 -1
172487-53370	28	9
172487-53400-1	28	10
172487-53400-2	28	10 -1
172487-53420	28	12
172487-61240	30	10
172487-64780	33	6 -1
172487-65100-1	37	8
172487-65101-1	37	8 -1
172487-65101-2	37	8 -2
172487-65110	37	12
172487-65111	37	12 -1
172487-65120	37	13
172487-65121	37	13 -1
172487-65130	37	13 A
172487-65140	37	13 B
172487-65160	5	16
172487-65520	38	5
172487-74200	27	3
172487-76410	63	9
172490-03200	1	12
	40	1 B
172490-13160	61	1
172490-74310	57	21 -1
172490-74320	57	22 -1
172490-74330	57	25 -1
172490-76150	66	9
172496-03250	1	15
172511-17351	14	4
172519-63240	13	29
	35	12
		13
		14
172524-03271	1	7
	76	4 A
172638-73330	50	19
172644-76161	63	7 -2
	68	7
172648-16600	12	7
172650-73450	41	26
	42	44
172652-64220	36	33
172725-16160	11	15
172730-05250	29	4
172730-75141	63	1
	64	2

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172730-75141	68	1
		2
	69	1
172734-14620	8	13
172734-41300	24	27
	26	18
172734-65270	37	18
172823-45000	26	19
172823-45940	24	29
172956-72560	46	28
172956-72800-1	49	1
172956-72800-3	49	1 -1
172956-72800-N	49	1 -2
172956-72810-1	49	3
172956-72810-3	49	3 -1
172956-72810-N	49	3 -2
172956-72860	49	8
172956-72880	49	5
172956-72890	49	11
172956-72900	49	12
172956-72910	49	17
172956-72920	49	6 -1
172956-73100	42	5
172956-73110	42	16
172956-73121	42	17
172956-76100-1	71	5
172956-76100-3	71	5 -1
172956-76100-Y	71	5 -2
172956-78100	71	12
172956-78110	71	13
172956-78120	71	15
172956-81490-1	78	4
172956-81490-3	78	4 -1
172956-81490-Y	78	4 -2
172956-81600	80	25
172956-81901-1	71	8
172956-81901-3	71	8 -1
172956-81901-Y	71	8 -2
172956-83102-1	81	3
172956-83102-3	81	3 -1
172956-83102-Y	81	3 -2
172956-83112-1	81	4
172956-83112-3	81	4 -1
172956-83112-Y	81	4 -2
172956-83120	80	27
172956-83140	81	6
172956-83160	81	8
172956-83200	81	9
172956-83221	81	10
172956-83252-1	81	11

PARTS No.	Fig.	Ref.No.
172956-83252-3	81	11 -1
172956-83252-Y	81	11 -2
172956-83281	81	12
172956-83282	81	12 -1
172956-83291-1	81	13
172956-83291-3	81	13 -1
172956-83291-Y	81	13 -2
172956-83350-1	81	15
172956-83350-3	81	15 -1
172956-83350-Y	81	15 -2
172956-83361	81	16
172956-83362	81	16 -1
172956-83381	81	17
172957-78111	71	14
172957-78150	69	7
172958-03160	2	3
	81	16 A
172958-17101	15	1 C
172958-17110	15	1
172958-17120	81	1
172958-17121	81	1 -1
172958-17140	15	4
172958-17150	15	5
172958-17160	15	6
172958-17170	15	7
		7 -1
172958-17180	15	8
		8 -1
172958-17190	15	8 A
172958-17200	15	8 B
172958-17210	15	8 C
172958-17220	15	8 E
172958-64500	15	11
172958-72950	49	20
172958-72960	49	21
172958-72982-1	49	22
172958-72982-2	49	22 -1
172958-72983	49	22 -2
172958-72983-N	49	22 -3
172958-73510	84	27
172958-76130	71	1
		18
172958-78200	71	16
172958-83130	81	5
172958-83131	81	5 -1
172958-83140	81	7
172958-83292-1	81	14
172958-83292-2	81	14 -1
172958-83292-N	81	14 -2
172989-73150	41	84 -1

PARTS No.	Fig.	Ref.No.
172989-73150	42	19 -1
172989-73160	41	83 -1
	42	18 -1
172A21-61600	30	15 -1
	38	25 -1
172A23-03120	1	2 -1
172A23-08450	37	8 -3
172A23-11470	5	5 -1
172A23-11480	5	6 -1
172A23-11490	5	5
		5 -1A
172A23-11500	5	6
		6 -1A
172A23-11600	5	5 -1C
		6 -1C
172A23-13120	7	4
172A23-13210	61	2
172A23-13310	8	7
172A23-13320	8	5
172A23-13411	8	9
172A23-13460	8	10
172A23-13510	8	11
172A23-13520	8	12
172A23-13530	8	32
172A23-14100	10	10 -1
172A23-14200	12	2
172A23-16500	12	3
172A23-16540	12	18
172A23-16600	12	21
172A23-37750	18	15 -1
		35 -1
172A23-46840	20	7
172A23-46850	20	8
172A23-54100-1	28	19
172A23-54100-2	28	19 -1
172A23-54101	28	19 -2
172A23-54102	28	19 -3
172A23-54103	28	19 -4
172A23-57650	29	13
172A23-61200-1	30	8
172A23-61200-2	30	8 -1
172A23-64460	36	10
172A23-64461	36	10 -1
172A23-64500	36	12
172A23-64501	36	12 -1
172A23-64700	36	7
172A23-64720	36	9
172A23-64770	36	35
172A23-64880	36	20
172A23-64881	36	20 -1

PARTS No.	Fig.	Ref.No.
172A23-64882	36	20 -2
172A23-64930	36	20 A
172A23-65490	38	1 -1
172A23-65500	38	3 -1
172A23-65600	37	8 B
172A23-65700	39	1
172A23-65700-1	39	1 -1
172A23-65750-2	39	8
172A23-65750-3	39	8 -1
172A23-67210	28	25
172A23-67210-1	28	25 -1
172A23-67211-1	28	25 -2
172A23-72020	44	32 -1
		32 -2
	45	31 -1
		31 -2
	46	32 -1
		32 -2
172A23-72041	44	2
	45	2
	46	2
172A23-72042	44	2 -1
		2 -2
	45	2 -1
		2 -2
	46	2 -1
172A23-72043	44	38
	45	41
	46	2 -2
172A23-72050	44	3
	45	3
	46	3
172A23-72051	44	3 -1
	45	3 -1
	46	3 -1
172A23-72052	44	3 -2
	45	3 -2
	46	3 -2
172A23-72061-1	44	30
172A23-72061-3	44	30 -1
172A23-72062-2	44	30 -2
172A23-72062-N	44	30 -3
172A23-72081	44	4
	45	5
	46	5
172A23-72301-1	44	5
172A23-72302-1	44	5 -1
172A23-72302-3	44	5 -2
172A23-72302-N	44	5 -3
172A23-72320-1	44	13

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
172A23-72320-3	44	13 -1
172A23-72320-N	44	13 -2
172A23-72340	44	20
172A23-72341	44	20 -1
172A23-72501-1	45	6
172A23-72502-1	45	6 -1
172A23-72502-3	45	6 -2
172A23-72502-N	45	6 -3
172A23-72520-1	45	19
172A23-72520-3	45	19 -1
172A23-72520-N	45	19 -2
172A23-72570	45	24
172A23-72571	45	24 -1
172A23-72800	48	24 -3
172A23-72901-1	45	4
	46	4
172A23-72901-3	45	4 -1
	46	4 -1
172A23-72902-1	46	4 -2
172A23-72902-2	45	4 -2
172A23-72902-N	45	4 -3
	46	4 -3
172A23-72950-1	44	31
	45	30
	46	31
172A23-72951-1	44	31 -2
	45	30 -2
	46	31 -2
172A23-72951-3	44	31 -1
	45	30 -1
	46	31 -1
172A23-72951-N	44	31 -3
	45	30 -3
	46	31 -3
172A23-73100	83	6
172A23-73110	83	8
	84	8
172A23-73140	83	11
	84	11
172A23-73160	83	18
	84	18
172A23-73510	50	20 -1
172A23-73530	50	14 -1
172A23-73540	50	78 -1
172A23-73550	50	52 -2
172A23-76200	66	16
172A23-76210	66	14 -3
172A23-76300	63	7
172A23-76301	63	5 -1
		7 -1

PARTS No.	Fig.	Ref.No.
172A23-78080	63	15
172A23-78090	63	16 -1
172A23-78110	63	17
172A23-78111	63	17 -1
172A23-78112	63	17 -2
172A23-78120	63	18 -1
172A23-78121	63	18 -2
172A23-78130	63	19
172A23-78131	63	19 -1
172A23-78840	66	35
172A23-78850	66	36
172A23-78860	66	37
172A23-81090-1	76	1
172A23-81090-3	76	1 -1
172A23-81090-Y	76	1 -2
172A23-94090-1	82	2
172A23-94090-2	82	2 -1
172A23-94091-2	82	2 -2
172A23-94092	82	2 -3
172A25-17200	13	51 -1
172A30-17200	15	9
172A30-72501-1	46	6
172A30-72502-1	46	6 -2
172A30-72502-2	46	6 -1
172A30-72502-N	46	6 -3
172A30-72520-1	46	17
172A30-72520-3	46	17 -1
172A30-72520-N	46	17 -2
172A30-72540	46	21
172A30-72541	46	21 -1
172A30-73100	84	6
172A36-03020	85	1
172A36-03110	1	8
	36	12 C
172A36-03111	1	8 -1
	36	12 C-1
172A36-03112	1	8 -2
172A36-03410	1	50
172A36-03411	1	50 -1
	3	14 -1
	28	25 A-1
172A36-03471	85	29
172A36-03500	1	1 -1
172A36-03501	1	1 -2
172A36-03510	2	1 -1
172A36-16520	12	8
172A36-16521	12	8 -1
172A36-16522	12	8 -2
172A36-46800	20	4
172A36-46801	20	4 -1

PARTS No.	Fig.	Ref.No.
172A36-46802	20	4 -2
172A36-61410	30	14
172A36-64200	36	5
172A36-64201	36	5 -1
172A36-64850	36	18
172A36-64851	36	18 -1
172A36-64852	36	18 -2
172A36-74690	59	2
172A36-74750	59	8
172A36-74780	59	9
172A37-03150	85	2
172A37-03160	85	3
172A37-03180	85	4
172A37-03190	85	5
172A37-03220	85	6
172A37-03231	85	7
172A37-03241	85	8
172A37-03250	85	9
172A37-03271	85	13
172A37-03280	85	14
172A37-03290	85	15
172A37-03300	85	16
172A37-03310	85	17
172A37-03330	85	19
172A37-03350	85	20
172A37-03360	85	22
172A37-03370	85	24
172A37-03400	85	26
172A37-03410	85	27
172A37-03430	85	28
172A37-03490	85	31
172A37-03500	85	32
172A37-03520	85	33
172A37-03530	85	34
172A37-03540	85	36
172A37-03550	85	38
172A37-03680	85	40
172A37-03710	85	42
172A37-03720	85	43
172A37-03730	85	44
172A38-03200	1	28 -1
	8	19 A-1
172A38-03201	1	28 -2
	3	22
	8	19 A-2
172A38-03210	1	29 -1
	8	5 A-1
172A38-03211	1	29 -2
	3	23
	8	5 A-2

PARTS No.	Fig.	Ref.No.
172A45-78600	65	18 -1
172A46-64180	36	1 -1A
		39 A
172A46-64190	36	1 -1B
		39 B
172A46-64200	36	1 -1
		39
172A46-64500	36	41
172A46-64520	36	40
172A46-72070	44	36
	45	39
	46	40
172A46-75500	62	13 -1
172A47-17210	13	2 A
172A47-72840	44	37 -1
	45	40 -1
	46	41 -1
172A55-03310	1	7 -1
	76	4 A-1
172A64-03050	1	57
	37	8 A
172A64-03700	1	20 -1
172A65-17480	13	53
172A69-14230	9	16 -1
172A77-17250	13	48
172A77-17500	13	52
172A77-46050	20	15 -1
	21	1 -1
172A77-64270	36	33 -1
172A79-12150	6	1 A-1
172A79-72570	44	1 -1
	45	1 -1
	46	1 -1
	1	7 -2
172A86-03310	1	7
172B02-73800	86	1
172B02-73810	86	2
172B02-73840	86	3
172B02-73850	86	4
172B02-73860	86	5
172B02-73870	86	11
172B02-73880	86	12
172B02-73900	86	10
194145-04810	7	1
	37	1
		2
194151-57100	13	28
194200-37780	24	26
	26	17
194202-56460	20	26
194464-52190	13	41

## PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
194464-52190	14	8
	20	20
194680-51670	12	24
194940-24350	29	8
198448-48810	61	4
198461-52950	13	30 -1
		30 -2
1A1040-43900	25	2
1A1040-45890	24	8
	26	28
1A1040-56900	6	6
1A1380-62160	37	4
1A6240-37360	50	2
1A8160-63400	36	35 -1
1C6281-52310	6	5
1D4070-23580	20	15
	21	1
1E6140-73420	17	6
1E6740-64200	24	27 -1
	26	18 -1
41851-000110	57	28 -1
	64	4 -1
		7 -1
	65	4 -1
		6 -1
		6 -2
		24
	66	11 -1
		13 -1
		15 -1
		21 -1
		22 -1
		23 -1
	68	4 -1
		10 -1
		12 -1
	71	4 -1
		4 -2
	72	3 -1
		5 -1
	73	5 -1
		7 -1
		8 -1
		9 -1
		10 -1
		12 -1
41851-000140	57	29 -1
	63	11 -1
	64	8 -1
		9 -1

PARTS No.	Fig.	Ref.No.
41851-000140	65	13 -1
		14 -1
		15 -1
		16 -1
	66	17 -1
	67	6 -1
	68	13 -1
		14 -1
	69	4 -1
		5 -1
		6 -1
41851-000180	63	6 -1
		8 -1
	66	24 -1
772448-82530-1	80	34
772448-82530-3	80	34 -1
772456-14111	9	1
772456-14112	9	1 -1
772456-37100-1	18	2
772456-37100-2	18	2 -1
772456-37110-1	18	22
772456-37110-2	18	22 -1
772456-37120-1	18	1 -1
772456-37120-3	18	1
772456-37130-1	18	21 -1
772456-37130-3	18	21
772456-37301-1	17	3
772469-03131	2	1
772A23-75100-1	62	1
772A23-75100-3	62	1 -1
772A23-75100-Y	62	1 -2
772A36-03110	1	1
933110-00301	13	7
933110-54100	22	28
	23	12
	24	34
	26	42
933111-26600	48	23
933125-59600	46	30
933126-38600	18	19
		39
933147-03400	43	37
	45	37
	46	38
	47	29
933152-02710	62	6
933152-09280	14	16
933168-14170	43	38
	45	38
	46	39

PARTS No.	Fig.	Ref.No.
933168-14170	47	30
933168-55770	14	17
	23	13
933171-13691	18	20
		40
933171-15680	13	43
933171-15801	12	36
933171-29751	82	14

PARTS No.	Fig.	Ref.No.
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