

0CS10-M41002EN

P R E F A C E

1. This Parts Catalog is the 1st revised of Yanmar crawler backhoe Vio20-2 for U. S. A. .

2. Parts catalog history

	Parts catalog NO.	Published	Note
1st edition	000Y00S4100	Mar., 2001	Disuse old edition
1st revised	000Y00S4101	July, 2001	Disuse old edition
2nd revised	000Y00S4102	July, 2004	

3. Model name

SECTION	Column	Model name	Manufactured	M/#
I (Vehicle)	(A)	Vio20-2	2001/1~	20907~
II (Engine)	(A)	3TNE74-ENBV	2000/12~	N06415~

4. Your understanding is asking that this parts catalog is not a technical data manual setting forth as servicing procedures, This parts catalog is using simplified illustration. Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.

Directions for the Parts Catalog.

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

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.

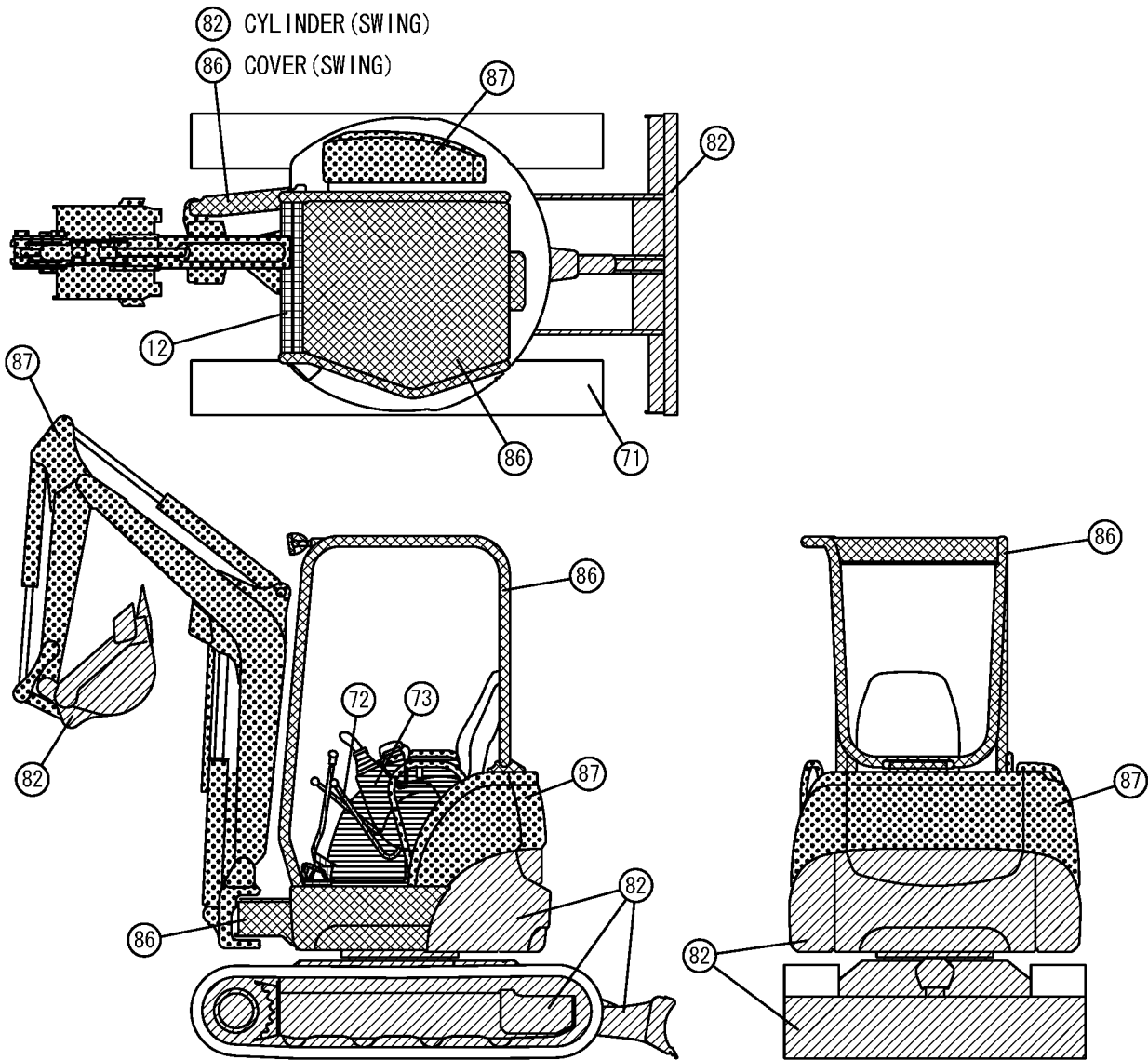
Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

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.

VEHICLE PAINTED COLOR



Color Code	Description	Painted Color	Munsel No.	Paint Part No.		
				16L Can	4L Can	SPRAY
82		YANMAR Deep Green	6. 39BG2. 13/1. 73	981101-09517	977620-40820	977620-30N31
87		YANMAR New Permanent Yellow	5. 15Y8. 45/10. 81	981101-09519	977620-40870	977620-30871
86		YANMAR New Grayaish Green	2. 62BG4. 76/2. 87	981101-09616	977620-40860	977620-30861
72		YANMAR Dark Olive Gray	7. 21Y2. 92/0. 79	-----	977620-40720	TOR-90460003
73		YANMAR Warm Gray	5. 52Y4. 91/1. 09	-----	-----	TOR-90450003
12		YANMAR Black	4. 90PB0. 08/0. 41	-----	TOR-91220001	TOR-90220003
71		YANMAR Charcoal Gray	N-1. 80	981101-09516	977620-40710	977620-30371

PICTURESQUE INDEX (1) ■ ■ ■ MAIN PARTS

1. LABEL & ACCESSORY
Fig. 1~5

14. OPTIONAL & KIT
Fig. 86

3. ELECTRICAL PARTS
Fig. 12~17

REAR
↗

10. CANOPY
Fig. 41

8. AROUND SEAT
Fig. 35~37

2. ENGINE RELATED
Fig. 6~11, 40

12. HYDRAULIC OIL PIPING
Fig. 66~77

RIGHT
↘

9. BONNET
Fig. 38, 39

5. CONTROL EQUIPMENT
Fig. 21~28

6. FRAME
Fig. 29, 30

7. COVER
Fig. 31~34

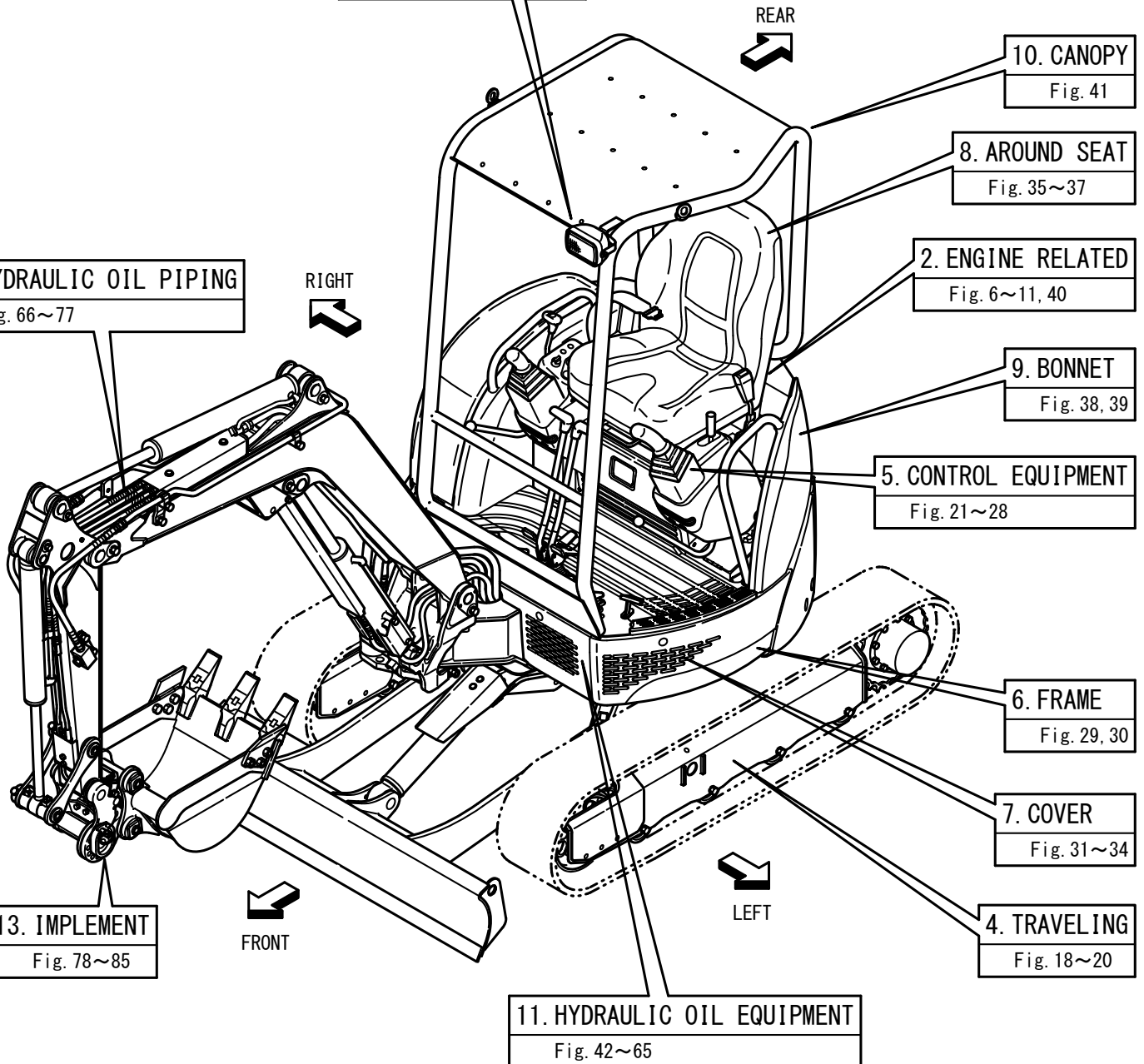
13. IMPLEMENT
Fig. 78~85

FRONT
↙

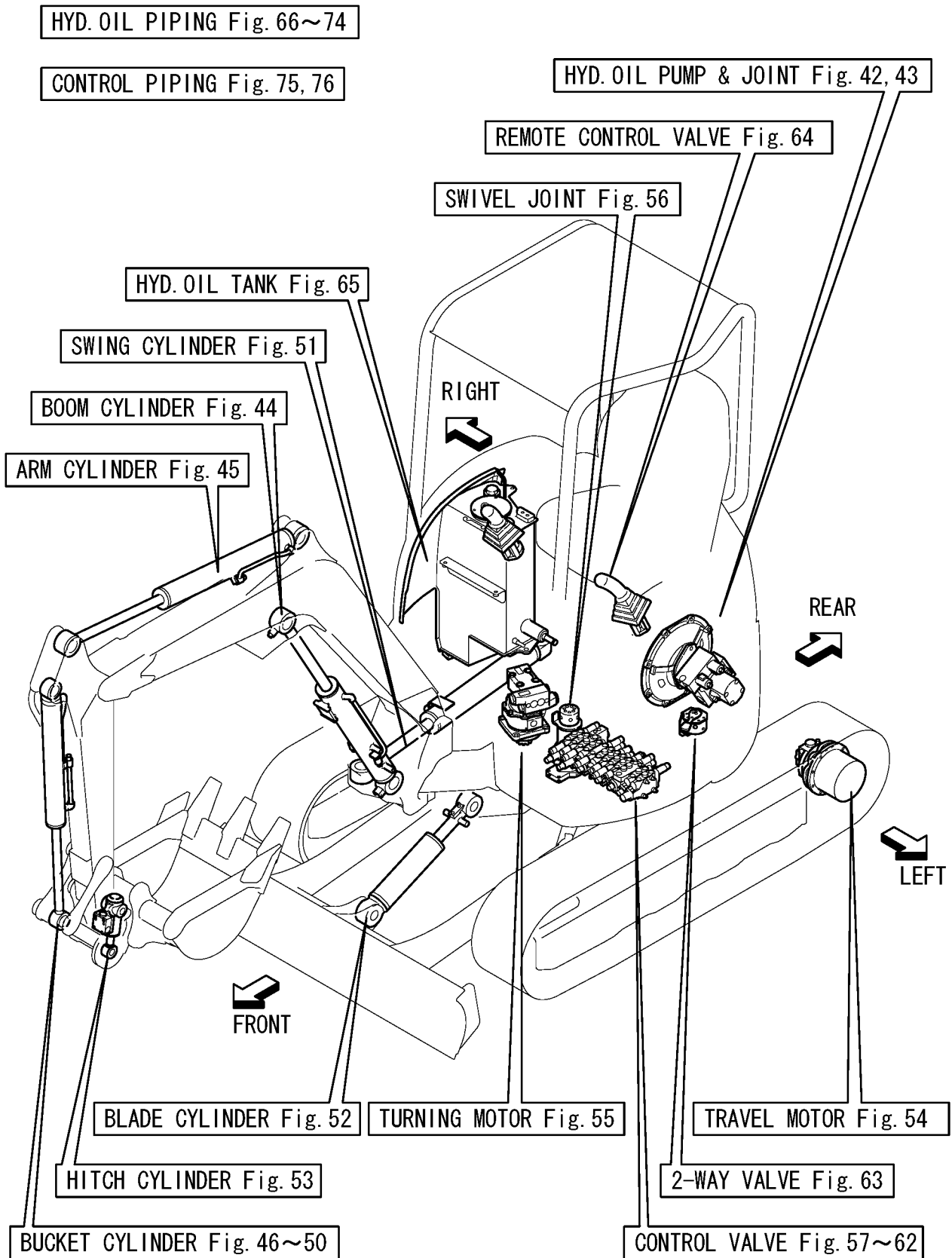
LEFT
↖

4. TRAVELING
Fig. 18~20

11. HYDRAULIC OIL EQUIPMENT
Fig. 42~65



PICTURESQUE INDEX (2) · · · HYDRAULIC SECTION



Contents

OCS10-M41002

Fig. No.	Fig. Name
LABEL & ACCESSORY	
1.	LABEL
2.	LABEL(USED EXCLUSIVELY FOR QUICK COUPLER SPEC.)
3.	SAFETY LABEL
4.	SAFETY LABEL(USED EXCLUSIVELY FOR QUICK COUPLER SPEC.)
5.	ACCESSORY
ENGINE RELATED	
6.	SUC.PIPE & EXT.PIPE
7.	ACCELERATOR
8.	ENGINE MOUNT
9.	RADIATOR & MOUNT
10.	FUEL TANK
11.	FUEL LINE
40.	DUCT
ELECTRICAL PARTS	
12.	BATTERY
13.	ELECTRIC PARTS(WIRING)
14.	ELECTRIC PART(EQUIPMENT)
15.	SWITCH BOX
16.	TRAVEL ALARM
17.	WORK LAMP & CANOPY LAMP

Fig. No.	Fig. Name
TRAVELING	
18.	SPROCKET & ROLLER
19.	IDLER & CRAWLER ADJUST
20.	CRAWLER
CONTROL EQUIPMENT	
21.	CONTROL EQUIPMENT(LOCK LEVER & STAND)RIGHT
22.	CONTROL EQUIPMENT(LOCK LEVER & STAND)LEFT
23.	CONTROL EQUIPMENT(DRIVING LEVER)
24.	CONTROL EQUIPMENT(BLADE LEVER)
25.	CONTROL EQUIPMENT(SWING PEDAL)
26.	CONTROL EQUIPMENT(LOW-HIGH PEDAL)
27.	CONTROL EQUIPMENT(P.T.O.PEDAL)
28.	VALVE PLATE
FRAME	
29.	TURNING FRAME
30.	TRACK FRAME & TURNING BEARING
COVER	
31.	COVER(FRAME)
32.	COVER(AROUND OPERATION)
33.	COVER(BOOM)
34.	COVER(CANOPY)

Contents

OCS10-M41002

Fig. No. Fig. Name

AROUND SEAT

- 35. STEP
- 36. INSTRUMENT PANEL & ARM REST
- 37. SEAT & SEAT MOUNT

BONNET

- 38. BONNET(1)
- 39. BONNET(2)

CANOPY

- 41. CANOPY

HYDRAULIC OIL EQUIPMENT

- 42. HYD.OIL PUMP & JOINT(STANDARD SPEC.)
- 43. HYD.OIL PUMP&JOINT(QUICK COUPLER SPEC.)
- 44. BOOM CYLINDER
- 45. ARM CYLINDER
- 46. BUCKET CYL.(STD.:PREVIOUS 1
- 47. BUCKET CYLINDER(STANDARD.:PREVIOUS 2)
- 48. BUCKET CYLINDER(STANDARD.:NEW)
- 49. BUCKET CYLINDER(QUICK COUPLER SPEC.:PREVIOUS)
- 50. BUCKET CYLINDER(QUICK COUPLER SPEC.:NEW)
- 51. SWING CYLINDER
- 52. BLADE CYLINDER
- 53. HITCH CYL.(QUICK COUPLER SPEC.)

Fig. No. Fig. Name

- 54. TRAVEL MOTOR
- 55. TURNING MOTOR
- 56. SWIVEL JOINT
- 57. CONTROL VALVE(1/6)
- 58. CONTROL VALVE(2/6)
- 59. CONTROL VALVE(3/6)
- 60. CONTROL VALVE(4/6)
- 61. CONTROL VALVE(5/6)
- 62. CONTROL VALVE(6/6)
- 63. 2-WAY VALVE
- 64. REMOTE CONTROL VALVE
- 65. HYD.OIL TANK

HYDRAULIC OIL PIPING

- 66. HYD.OIL PIPING(TANK - PUMP - CONTROL V.)
- 67. HYD.OIL PIPING(PUMP,CONTROL V. - MOTOR)
- 68. HYD.OIL PIPING(CONTROL V. - SWIVEL,SWING)
- 69. HYD.OIL PIPING(RETURN)
- 70. HYD.OIL PIPING(P.T.O.:FRAME END)
- 71. HYD.OIL PIPING(TRACK FRAME)
- 72. HYD.OIL PIPING(BOOM)
- 73. HYD.OIL PIPING(P.T.O.:ARM END)
- 74. HYD.OIL PIPING(QUICK COUPLER SPEC.)
- 75. CONTROL PIPING(PUMP - CONTROL V. - RETURN)
- 76. CONTROL PIPING(REMOTE CONTROL V. - 2WAY V. - CONTROL V.)

Contents

0CS10-M41002

Fig. No. Fig. Name

77. GREASING

Fig. No. Fig. Name

IMPLEMENT

78. BOOM BRACKET

79. BOOM

80. ARM(STANDARD SPEC.)

81. ARM(QUICK COUPLER SPEC.)

82. BUCKET ARM & LINK

83. BUCKET

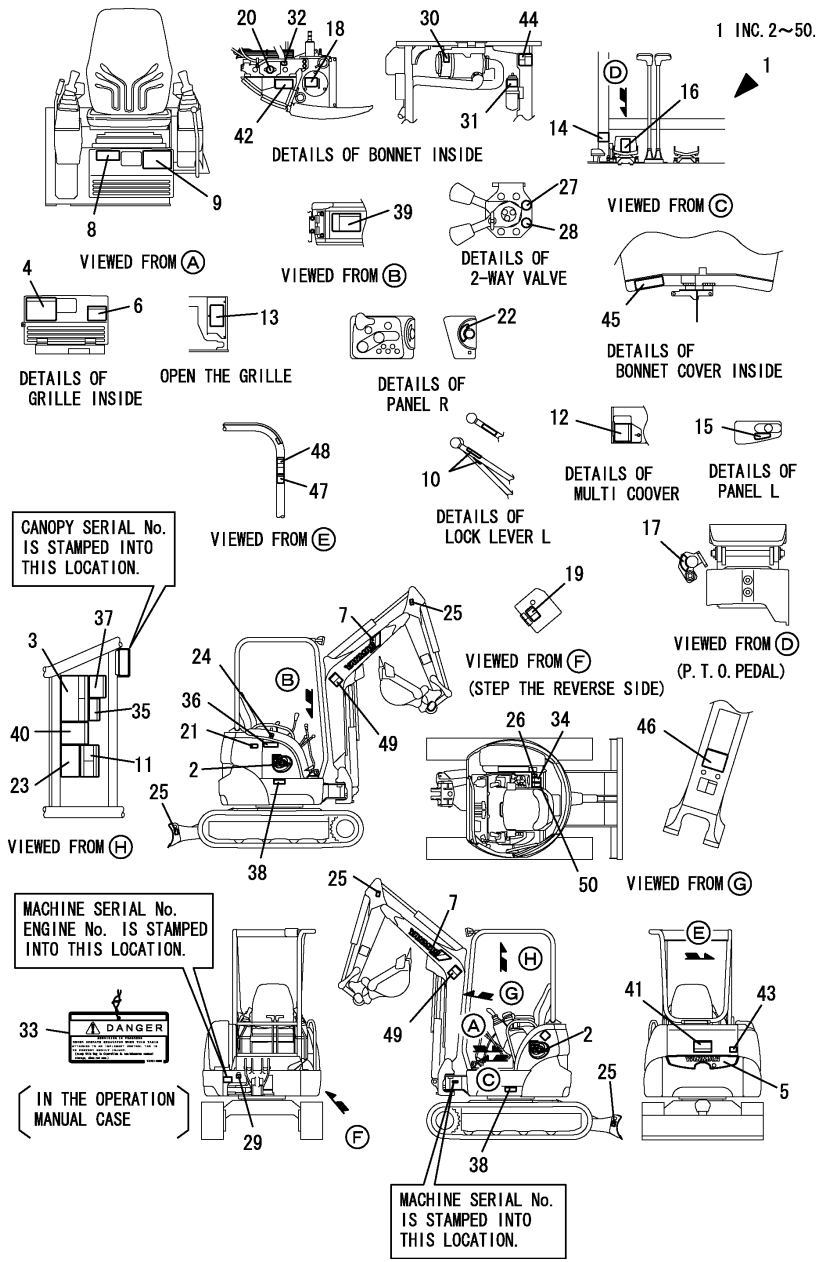
84. QUICK COUPLER

85. BLADE

OPTIONAL & KIT

86. SEAT KIT(OPTIONAL)

Fig.1. LABEL



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty	(D)	(E)	(F)	I	R
1	1	772469-03100	LABEL ASSY(US.P)	1								
2	2	172469-03120	LABEL, VIO20	2								
2-1	2	172469-03121	LABEL, MODEL	2								N
(A=*2004.04)												
3	2	172469-03130	LABEL, LIFT US	1								
3-1	2	172469-03131	LABEL, LIFT US	1								N
(A=*2004.04)												
4	2	172469-03140	LABEL, OIL&WATER	1								
5	2	172458-03160	LABEL, REAR	1								
6	2	172472-03160	LABEL, GREASE	1								
7	2	172524-03271	LABEL	2								
8	2	172469-03110	LABEL, SPECIFICATION	1								
8-1	2	172469-03111	LABEL, SPECIFICATION	1								N
(A=M/#21808)												
9	2	172472-03140	LABEL, SUPORT US	1								
10	2	172183-03280	LABEL, LOCK	2								
11	2	172437-03600	LABEL	1								
12	2	172437-03241	LABEL, CRAWLER	1								1
13	2	172472-03170	LABEL, FUSE	1								
13-1	2	172472-03171	LABEL, FUSE US	1								R
(A=M/#26069)												
14	2	172147-03210	LABEL, 2 SPEED	1								Z
(A=M/#25064)												
15	2	172458-03220	LABEL, ACCELERATOR	1								
16	2	172165-03231	LABEL, P.T.O.	1								
16-1	2	172496-03250	LABEL, P.T.O.	1								N
(A=M/#25064)												
17	2	172458-03240	LABEL, LOCK	1								
18	2	172463-03290	LABEL, HYD.OIL US	1								
19	2	172438-03300	LABEL	1								
20	2	172462-03320	LABEL	1								
21	2	172463-03330	LABEL, COVER	1								
22	2	172141-03360	LABEL, START SWITCH	1								
23	2	172149-03430	LABEL	1								
23-1	2	172490-03200	LABEL	1								N
(A=M/#25064)												
24	2	172437-03500	LABEL, FUEL	1								
25	2	172437-03510	LABEL, HOOK	4								
26	2	172437-03530	LABEL, RE-START	1								
27	2	172437-03610	LABEL	1								
28	2	172437-03620	LABEL	1								
29	2	172157-03740	LABEL	1								
30	2	172125-03950	LABEL, AIR CLEANER	1								
31	2	124764-44810	LABEL, SUB-TANK	1								
32	2	124764-44920	LABEL, ANTI-FREEZING	1								
33	2	172437-03250	TAG ASSY, CAUTION	1								
34	2	172437-03300	LABEL, MANUAL	1								
35	2	172437-03310	LABEL, SLOPE	1								
36	2	172437-03320	LABEL, HYD.OIL TANK	1								
36-1	2	172437-03321	LABEL, HYD.OIL TANK	1								R
(A=M/#21069)												

Remarks

(1) RUBBER CRAWLER SPEC.

Fig.1. LABEL

(A)=VIO20-2(US)

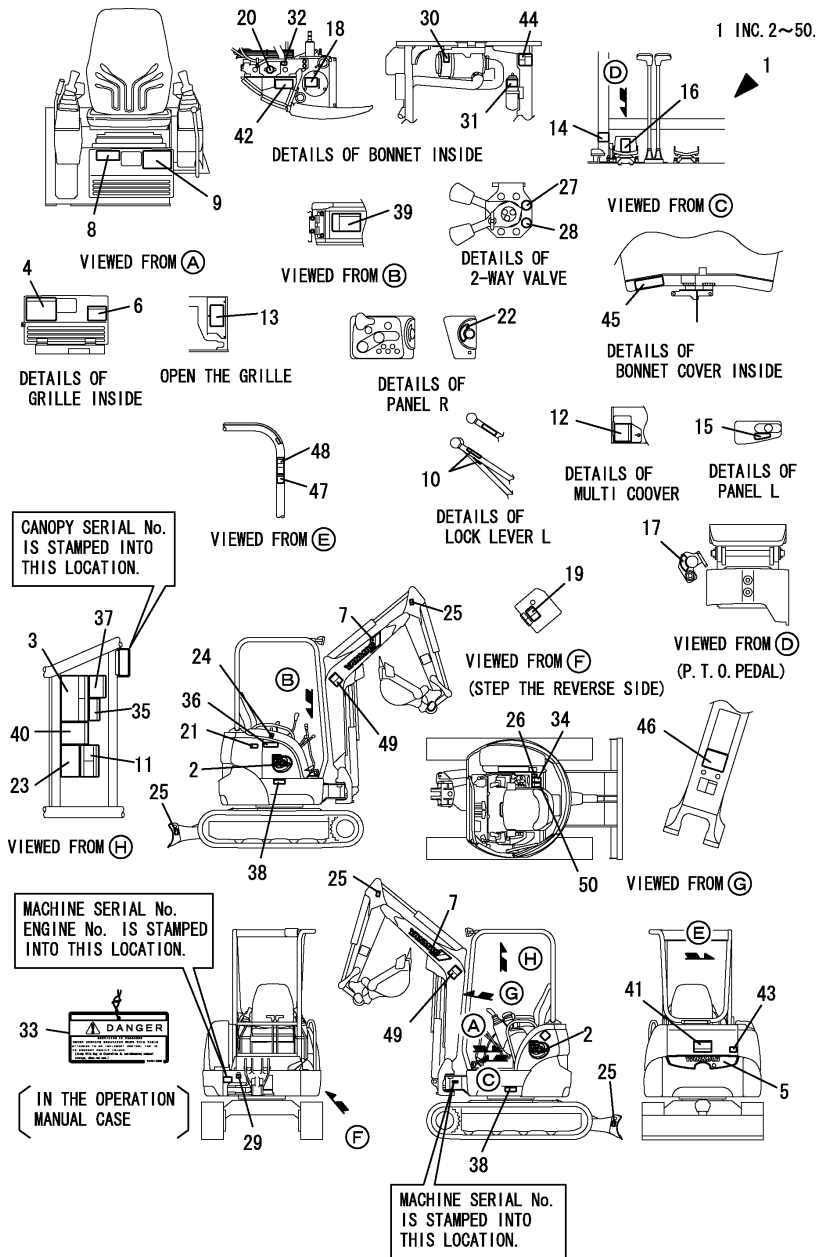
(B)=

(C)=

(D)=

(E)=

(F)=



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty	(D)	(E)	(F)	I	R
37	2	172437-03340	LABEL,TRANSPORT	1								
37-1	2	172437-03341	LABEL,TRANSPORT	1								R
(A=M/#21069)												
38	2	172437-03351	LABEL,GREASE CYL.	2								
39	2	172437-03360	LABEL,BATTERY	1								
40	2	172437-03371	LABEL	1								
41	2	172437-03380	LABEL,SWING AREA	1								
42	2	172437-03390	LABEL,RADIATOR	1								
43	2	172437-03400	LABEL,ENG.HOOD	1								
43-1	2	172437-03401	LABEL (ENG COVER US)	1								R
(A=M/#21069)												
44	2	172437-03410	LABEL,ENG.ROOM	1								
44-1	2	172437-03411	LABEL (ENG ROOM US)	1								R
(A=M/#21069)												
45	2	172437-03421	LABEL,MUFFLER	1								
46	2	172437-03431	LABEL,STEERING	1								
47	2	172437-03440	LABEL,ROPS	1								
48	2	172437-03450	LABEL,SEAT BELT	1								
49	2	172437-03460	LABEL, BOOM	2								
50	2	172437-03470	LABEL,LEVER LOCK	1								

Remarks
(1)RUBBER CRAWLER SPEC.

Fig.2. LABEL(USED EXCLUSIVELY FOR QUICK COUPLER SPEC.)

(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772469-03130	LABEL SET Q,VOU20-2U	1							
2	2	172469-03150	LABEL,LIFT Q US	1							
2-1	2	172469-03151	LABEL, LIFT Q US	1							N
(A=M/#23637)											
2-2	2	172469-03152	LABEL,LIFT Q US	1							N
(A=*2004.04)											
3	2	172472-03230	LABEL,OPERATION PIN	1							
4	2	172472-03240	LABEL,PIN US	1							
5	2	172472-03250	LABEL,OPERATION Q US	1							
6	2	172472-03260	LABEL,FINGER	1							
7	2	172472-03270	LABEL,SAND US	1							
8	2	172472-03280	LABEL	1							
9	2	172472-03290	LABEL,SWITCH	1							
10	2	172472-03300	LABEL,COVER	1							
11	2	172958-03160	LABEL	1							
12	2	172458-03240	LABEL,LOCK	1							

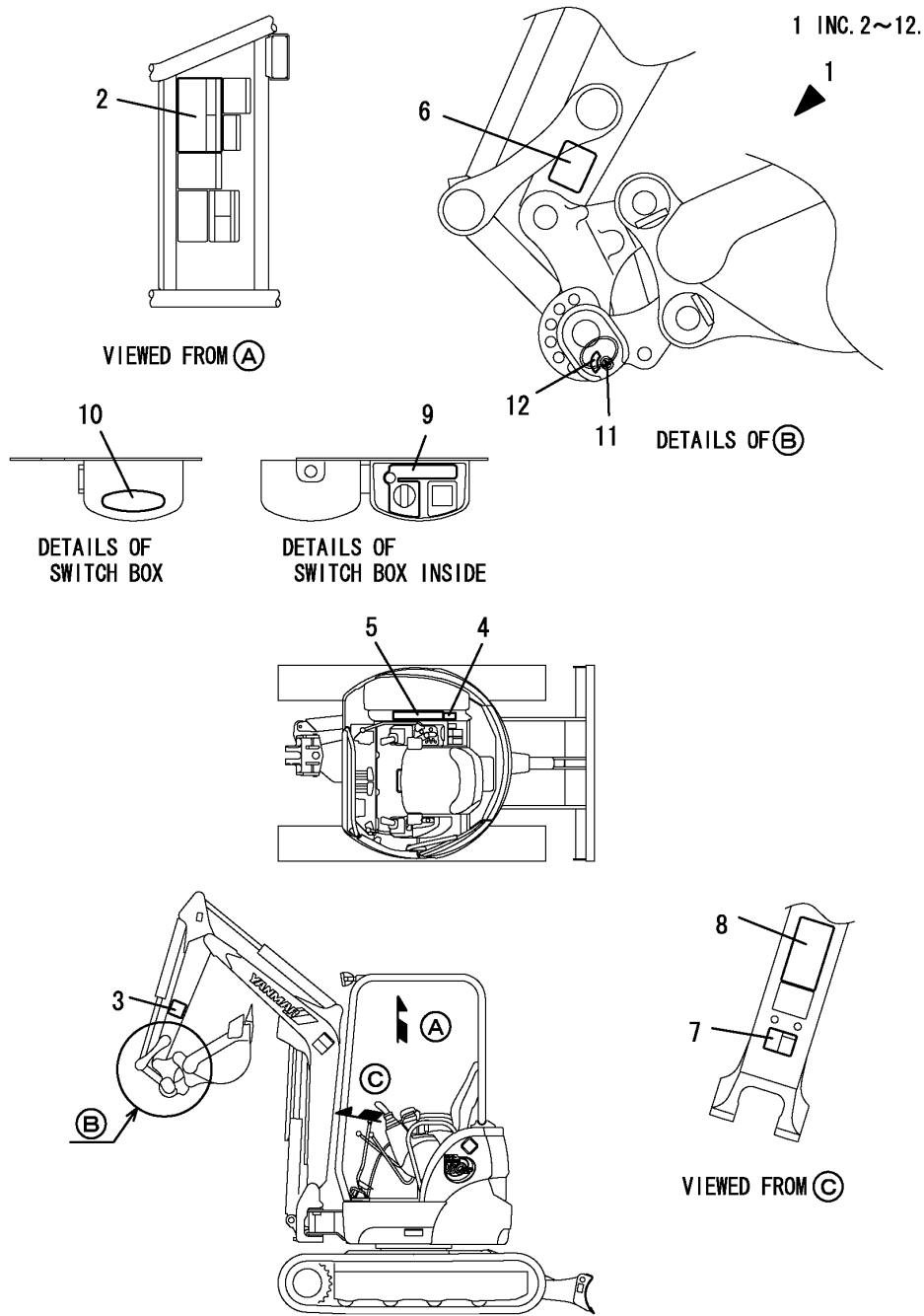
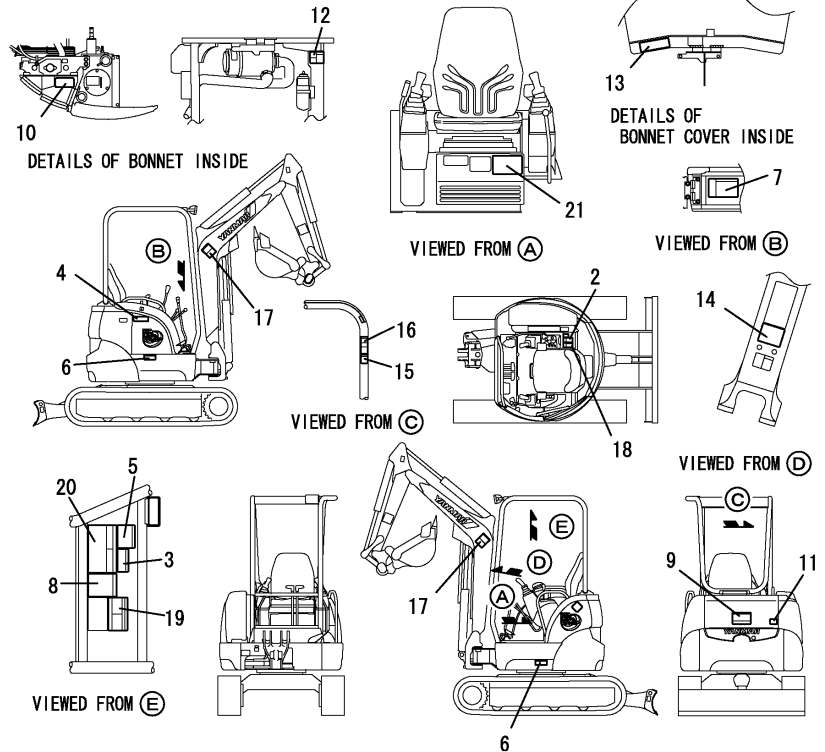
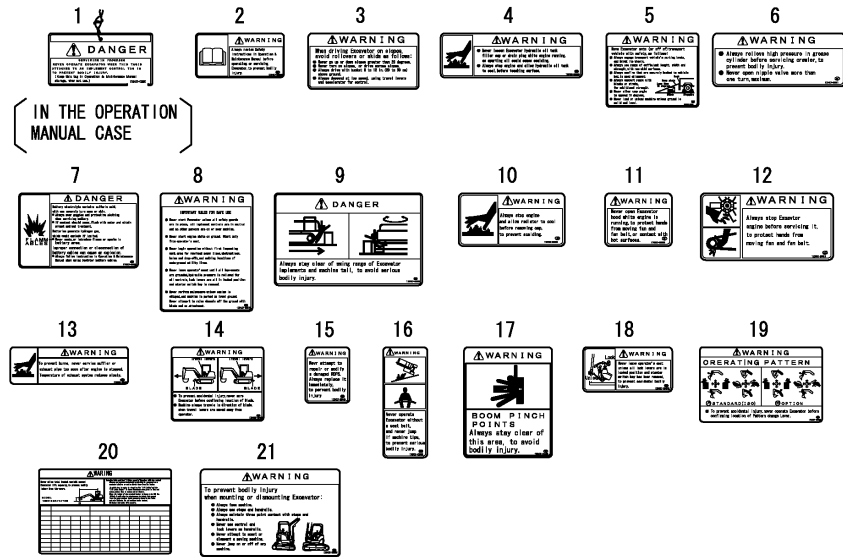


Fig.3. SAFETY LABEL

(A)=VIO20-2(US)
(B)=
(C)=

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

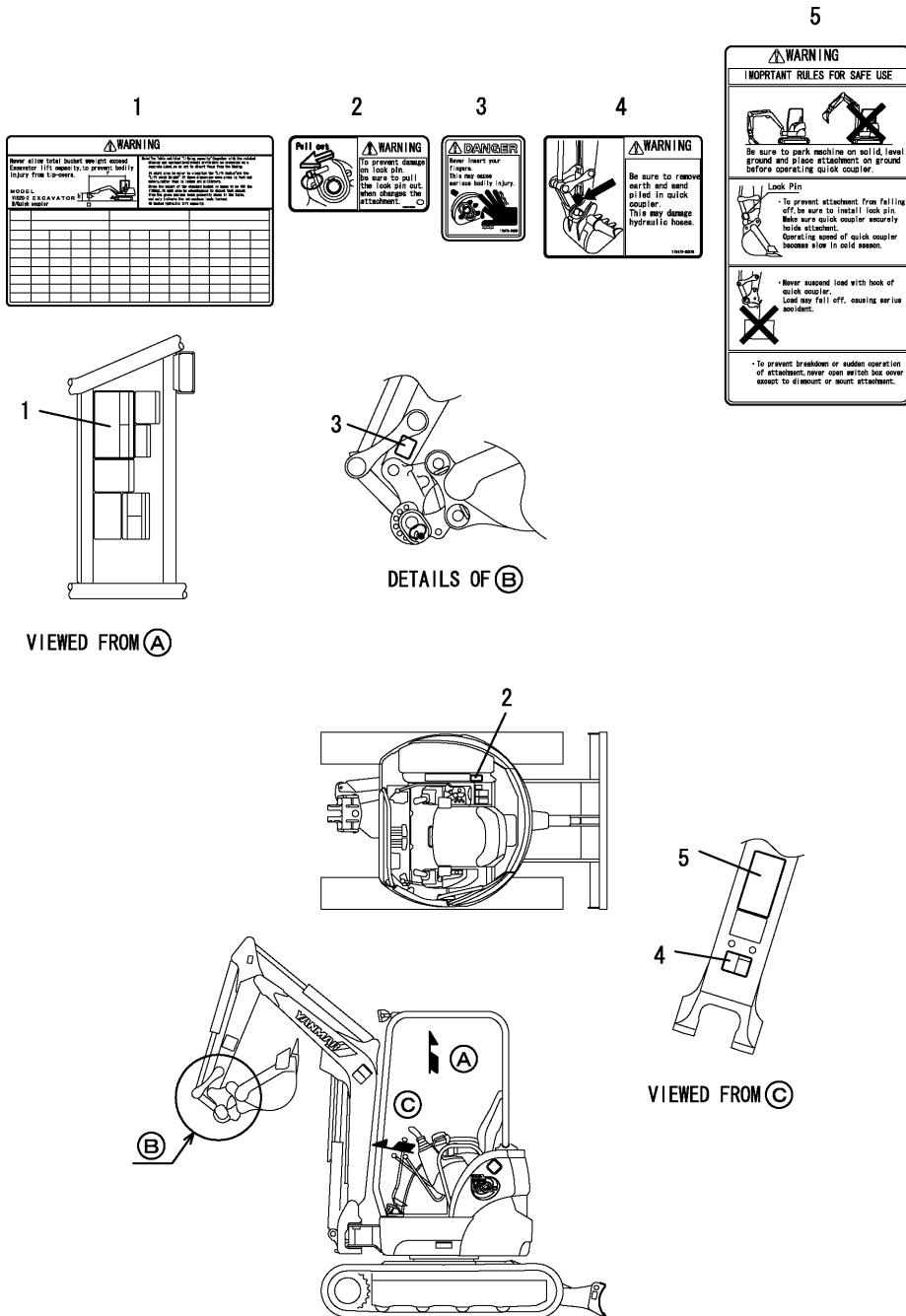


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172437-03250	TAG ASSY, CAUTION	1							
2	1	172437-03300	LABEL,MANUAL	1							
3	1	172437-03310	LABEL,SLOPE	1							
4	1	172437-03320	LABEL,HYD.OIL TANK	1							
4-1	1	172437-03321	LABEL,HYD.OIL TANK	1							R
(A=M/#21069)											
5	1	172437-03340	LABEL,TRANSPORT	1							
5-1	1	172437-03341	LABEL,TRANSPORT	1							R
(A=M/#21069)											
6	1	172437-03351	LABEL,GREASE CYL.	2							
7	1	172437-03360	LABEL,BATTERY	1							
8	1	172437-03371	LABEL	1							
9	1	172437-03380	LABEL,SWING AREA	1							
10	1	172437-03390	LABEL,RADIATOR	1							
11	1	172437-03400	LABEL,ENG.HOOD	1							
11-1	1	172437-03401	LABEL (ENG COVER US)	1							R
(A=M/#21069)											
12	1	172437-03410	LABEL,ENG.ROOM	1							
12-1	1	172437-03411	LABEL (ENG ROOM US)	1							R
(A=M/#21069)											
13	1	172437-03421	LABEL,MUFFLER	1							
14	1	172437-03431	LABEL,STEERING	1							
15	1	172437-03440	LABEL,ROPS	1							
16	1	172437-03450	LABEL,SEAT BELT	1							
17	1	172437-03460	LABEL, BOOM	2							
18	1	172437-03470	LABEL,LEVER LOCK	1							
19	1	172437-03600	LABEL	1							
20	1	172469-03130	LABEL,LIFT US	1							
20-1	1	172469-03131	LABEL, LIFT US	1							N
(A=*2004.04)											
21	1	172472-03140	LABEL,SUPORT US	1							

Fig.4. SAFETY LABEL(USED EXCLUSIVELY FOR QUICK COUPLER SPEC.)

(A)=VIO20-2(US)
(B)=
(C)=

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



VIEWED FROM (A)

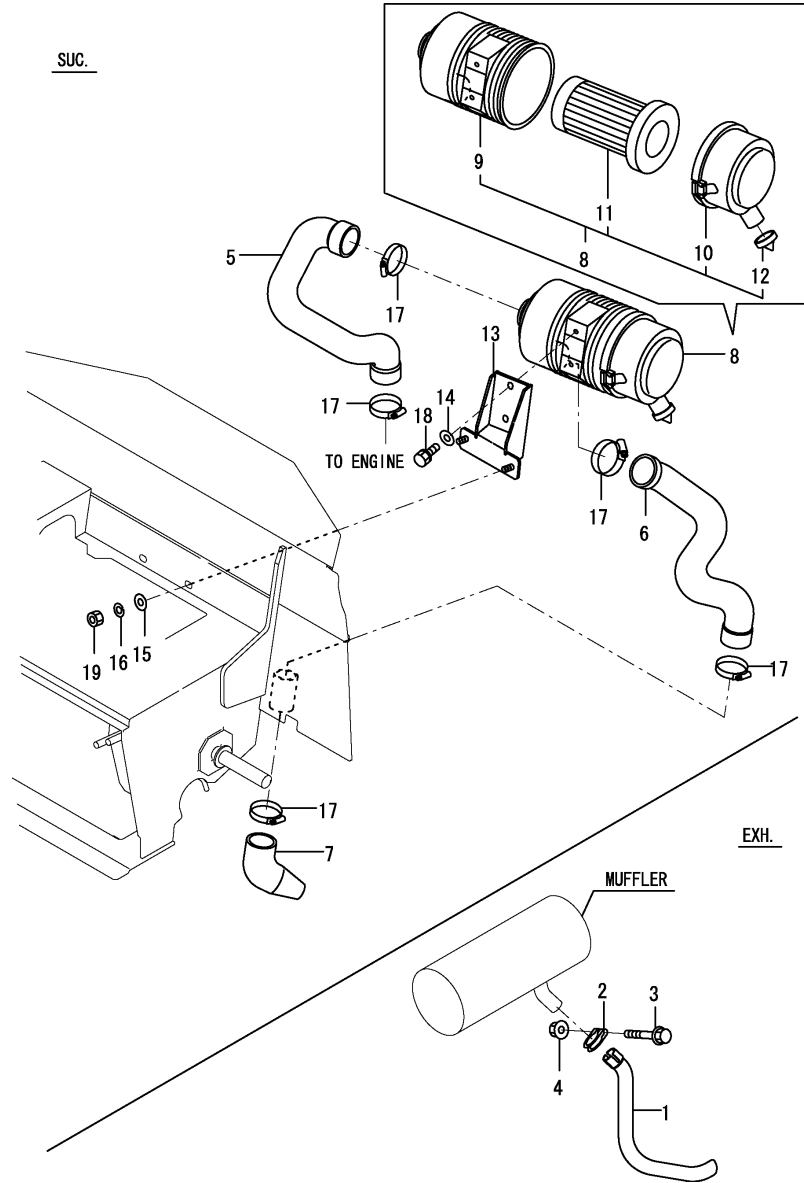
DETAILS OF (B)

VIEWED FROM (C)

Fig.6. SUC.PIPE & EXT.PIPE

(A)=VIO20-2(US)
(B)=
(C)=

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



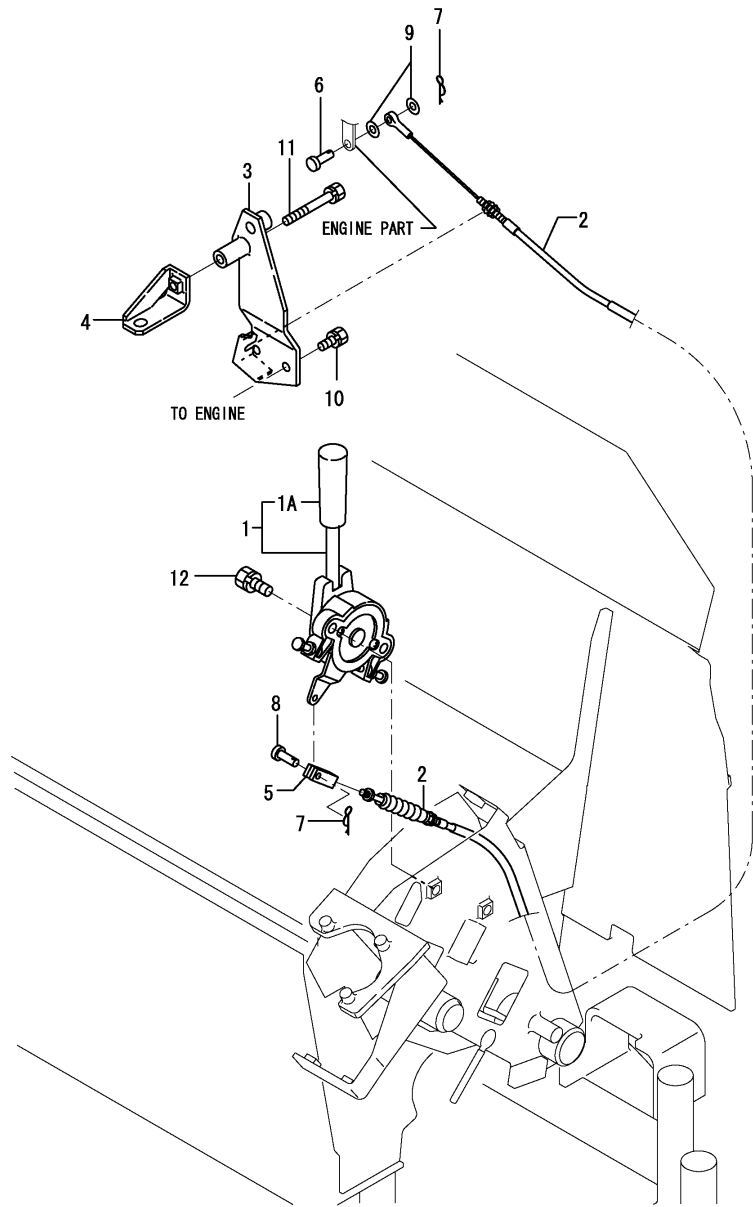
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-11310	PIPE, EXTENSION	1							
2	1	172173-11561	CLAMP	1							
3	1	26106-080552	BOLT, M8X 55 PLATED	1							
4	1	26366-080002	NUT, M8	1							
5	1	172456-11480	HOSE A,AIR CLEANER	1							
6	1	172456-11490	HOSE B,AIR CLEANER	1							
7	1	172456-11500	HOSE C,AIR CLEANER	1							
8	1	172456-11510	CLEANER ASSY, AIR	1							
9	2	172456-11590	BODY	1							
10	2	172456-11600	COVER ASSY	1							1
11	2	129619-12520	ELEMENT	1							
12	2	119808-12540	VALVE, UNLOADER	1							
13	1	172456-11520	BRACKET	1							
14	1	22137-080000	WASHER, 8	2							
15	1	22137-100000	WASHER, 10	2							
16	1	22217-100000	WASHER, SPRING 10	2							
17	1	23000-060000	CLAMP, 60	5							
18	1	26013-080202	BOLT, M8X 20	2							
19	1	26716-100002	NUT, M10	2							
20A	1	172125-03950	LABEL, AIR CLEANER	1							2

Remarks
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.20A
(2)LABELS ARE NOT ILLUSTRATED.

Fig.7. ACCELERATOR

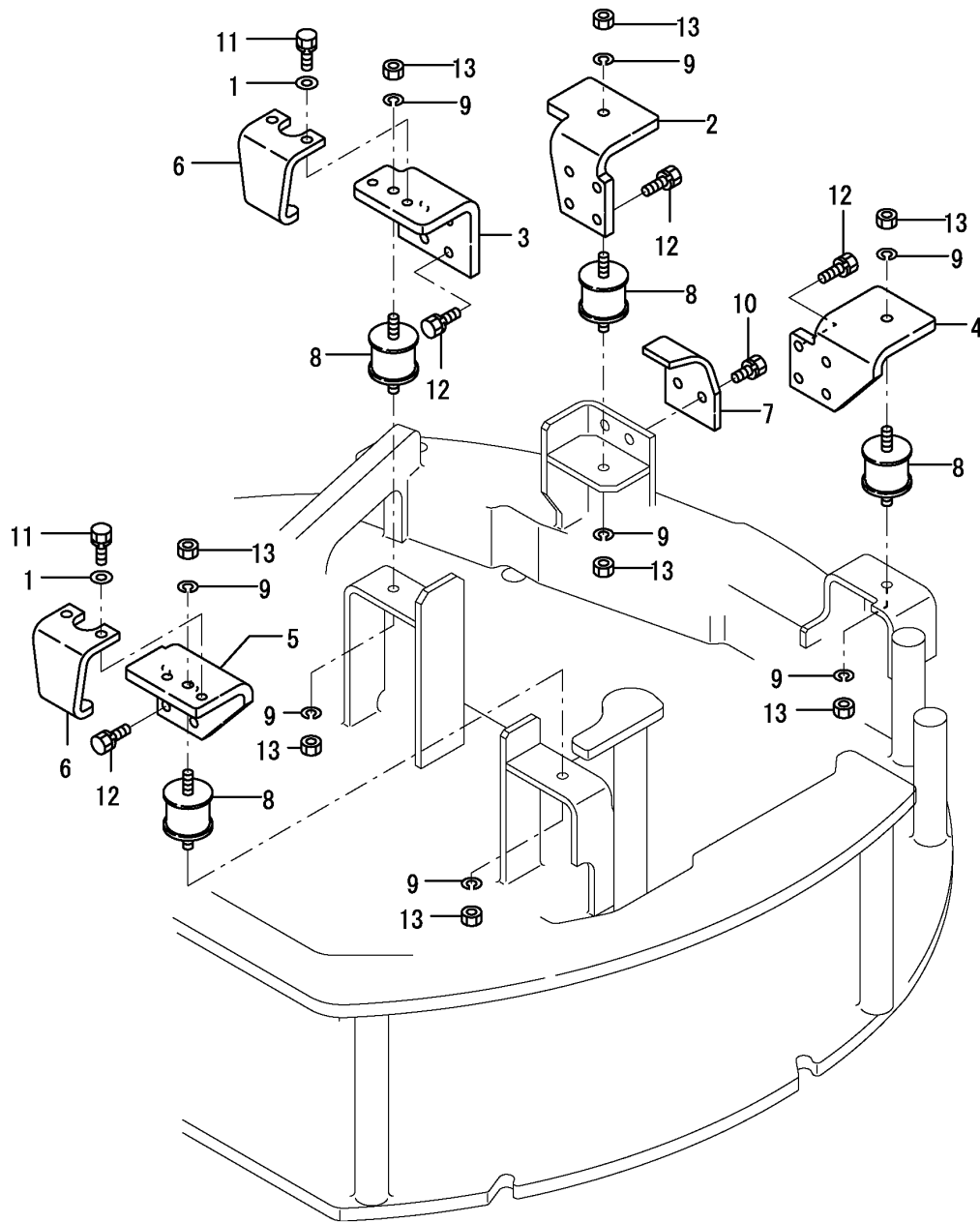
(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-12100	LEVER,ACCELERATOR	1							
1A	2	172A79-12150	GRIP	1							W
(A=MXXXXX)											
2	1	172469-12110	CABLE, ACCELERATOR	1							
3	1	172456-12120	BRACKET,ACCELERATOR	1							
4	1	172456-12160	BRACKET	1							
5	1	172137-12270	JOINT, CABLE	1							
6	1	172113-12522	PIN	1							
7	1	1C6281-52310	PIN, SNAP 6	2							
8	1	1A1040-56900	PIN, 6X17	1							
9	1	22137-060000	WASHER, 6	2							
10	1	26013-080162	BOLT, M8X 16	2							
11	1	26013-080502	BOLT, M8X 50	1							
12	1	26013-100252	BOLT, M10X 25	2							

Fig.8. ENGINE MOUNT

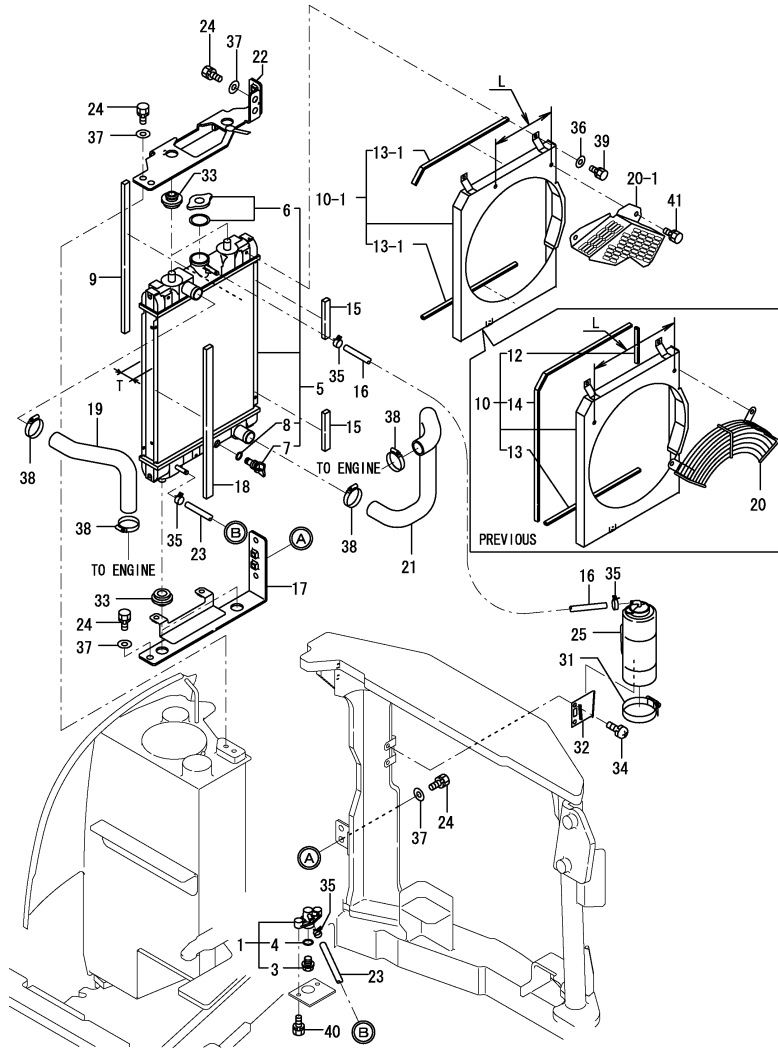


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER 10	4							
2	1	172456-13100	MOUNT PF,ENG	1							
3	1	172456-13110	MOUNT LF,ENG	1							
4	1	172456-13120	MOUNT RR,ENG	1							
5	1	172456-13130	MOUNT LR,ENG	1							
6	1	172456-13140	STOPPER	2							
7	1	172456-13150	STOPPER	1							
8	1	172179-13210	CUSHION	4							
8-1	1	172179-13211	RUBBER, ANTI VIBRAT.	4							N
(A=M/#21808)											
9	1	22217-100000	WASHER, SPRING 10	8							
10	1	26013-100202	BOLT, M10X 20	2							
11	1	26013-100252	BOLT, M10X 25	4							
12	1	26013-100252	BOLT, M10X 25	16							
13	1	26716-100002	NUT, M10	8							

Fig.9. RADIATOR & MOUNT



Remarks

- (1)USE WITH REF.NO.42A LABEL.
- (2)USE WITH REF.NO.43A LABEL.
- (3)USE WITH REF.NO.44A LABEL.
- (4)LABELS ARE NOT ILLUSTRATED.
- (5)T=REF.NO.5:36MM,NO.5-1:27MM
- (6)REF.NO.18 : 400X15X10 MM
REF.NO.18-1 : 390X 8X 5 MM
- (7)L=REF.NO.10:270MM,NO.10-1:188MM
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.20-1.

(A)=VIO20-2(US)
(B)=
(C)=

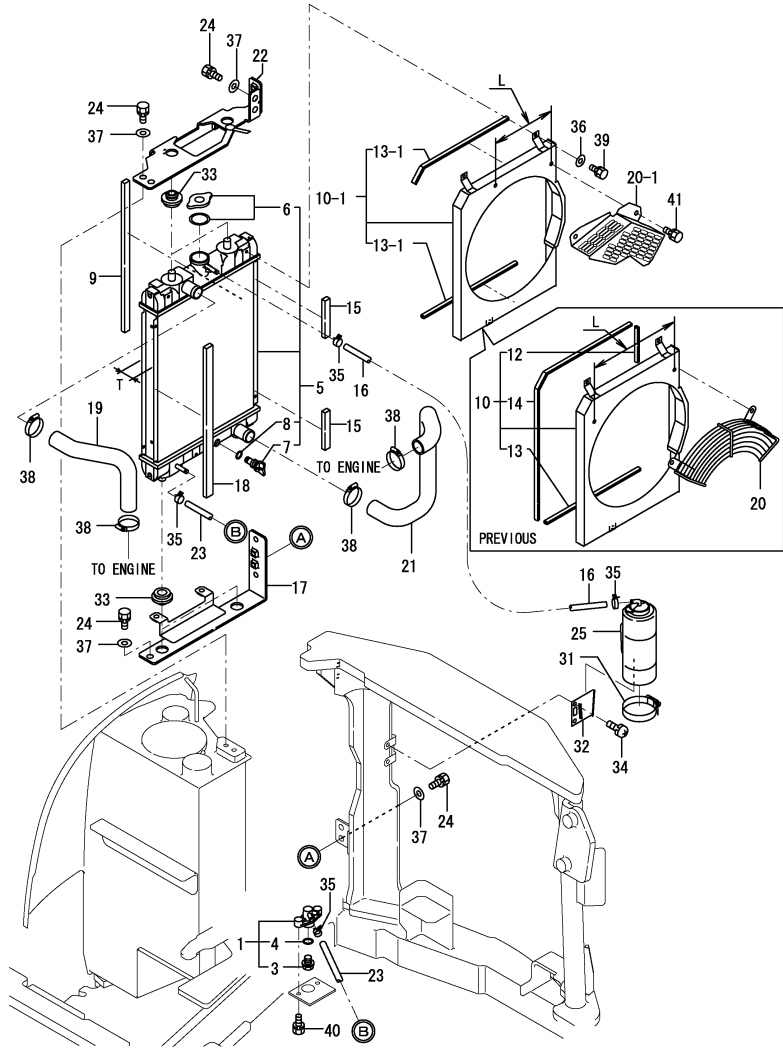
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-13210	COCK ASSY, 2-WAY	1							
3	2	121250-49121	PLUG, DRAIN	1							
4	2	24311-000160	O-RING, 1AP16.0	1							
5	1	172456-13300	RADIATOR ASSY	1							5
5-1	1	172487-13300	RADIATOR	1							S 5
(A=M/#21745)											
6	2	172456-13310	CAP ASSY	1							1
7	2	172456-13320	COCK	1							
8	2	172456-13330	O-RING	1							
9	1	172458-13320	SEAL, RADIATOR	2							
9-1	1	172487-13500	SEAL, RADIATOR	2							N
(A=M/#21637)											
10	1	172456-13340	SHROUD ASSY	1							
10-1	1	172456-13341	SHROUD ASSY	1							F 7
(A=M/#21745)											
12	2	172456-13470	RUBBER 100	2							Z
(A=M/#21745)											
13	2	172456-13480	TRIM	1							
13-1	2	172456-13480	TRIM	2							K
(A=M/#21745)											
14	2	172183-65541	SEAL, CANOPY	1							Z
(A=M/#21745)											
15	1	172456-13350	SEAL, RADIATOR	2							Z
(A=M/#21745)											
16	1	172157-13381	HOSE	1							
17	1	172456-13380	BRACKET B	1							
17-1	1	172456-13381	BRACKET B ASSY	1							N
(A=M/#21637)											
18	1	172458-13390	SEAL, RADIATOR	1							
18-1	1	172487-13450	SEAL	2							S 6
(A=M/#21745)											
19	1	172456-13450	PIPE, WATER	1							
19-1	1	172456-13451	PIPE, WATER	1							N
(A=M/#21637)											
20	1	172422-13460	NET, WIRE	1							
20-1	1	172487-13460	GUARD, FAN	1							S
(A=M/#21745)											
21	1	172456-13460	PIPE, WATER	1							
22	1	172456-13500	BRACKET A	1							3
22-1	1	172456-13501	BRACKET A ASSY	1							N 3
(A=M/#21637)											
23	1	172734-14620	PIPE L=300, FUEL	1							
24	1	26013-100202	BOLT, M10X 20	7							
24-1	1	26013-100202	BOLT, M10X 20	4							K
(A=M/#21637)											
25	1	119813-44510	TANK ASSY	1							2
31	1	124450-44550	BAND	1							
32	1	121256-44600	BRACKET, SUB TANK	1							
33	1	119255-44660	ABSORBER	4							
34	1	26022-080162	SCREW, M8X16	2							
35	1	124766-59050	CLIP, HOSE 12	4							

Fig.9. RADIATOR & MOUNT

(A)=VIO20-2(US)
(B)=
(C)=

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



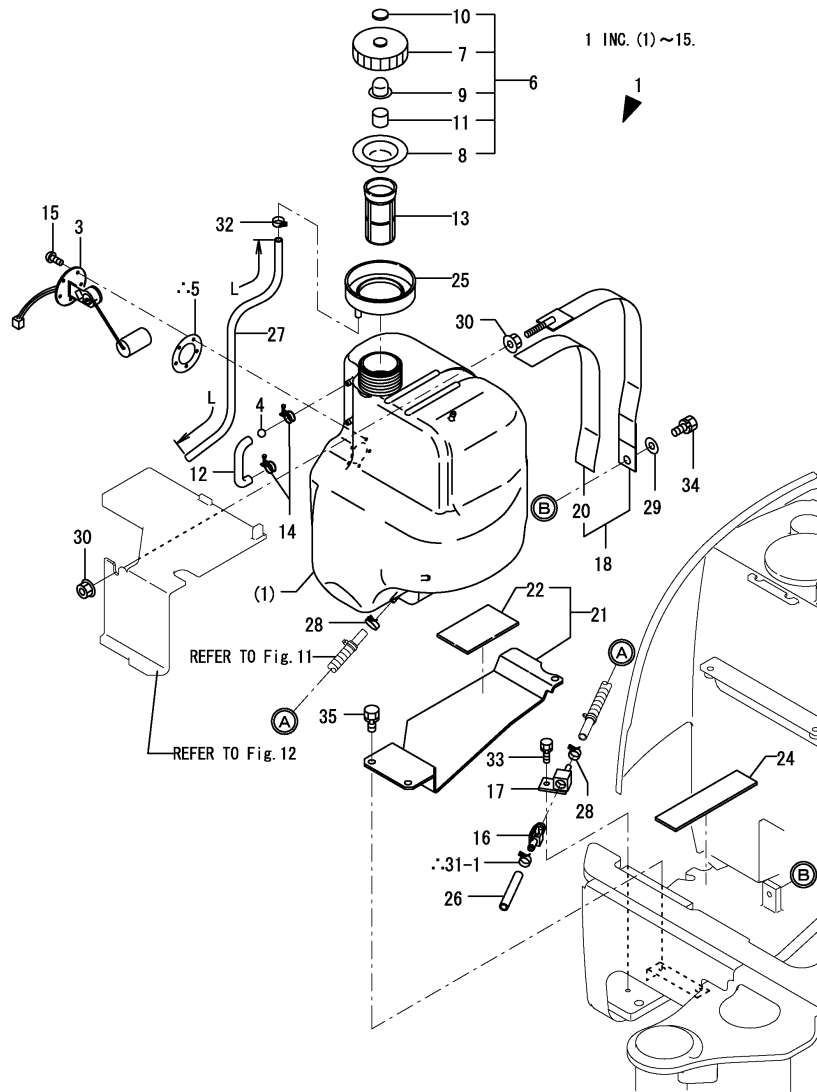
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
36	1	22137-060000	WASHER, 6	3							
37	1	22137-100000	WASHER, 10	7							
37-1	1	22137-100000	WASHER, 10	4							K
(A=M/#21637)											
38	1	23010-038000	CLAMP, 38	4							
38-1	1	23001-041000	CLAMP, HOSE 41	4							N
(A=M/#21745)											
39	1	26013-060162	BOLT, M6X 16	3							
40	1	26013-080162	BOLT, M8X 16	2							
41	1	26013-080162	BOLT, M8X 16	2							
42A	1	172462-03320	LABEL	1							4
43A	1	124764-44810	LABEL,SUB-TANK	1							4
44A	1	124764-44920	LABEL, ANTI-FREEZING	1							4

Remarks

- (1)USE WITH REF.NO.42A LABEL.
- (2)USE WITH REF.NO.43A LABEL.
- (3)USE WITH REF.NO.44A LABEL.
- (4)LABELS ARE NOT ILLUSTRATED.
- (5)T=REF.NO.5:36MM,NO.5-1:27MM
- (6)REF.NO.18 : 400X15X10 MM
- REF.NO.18-1 : 390X 8X 5 MM
- (7)L=REF.NO.10:270MM,NO.10-1:188MM
- INTERCHANGEABLE BY SIMULTANEOUS
- REPLACEMENT WITH REF.NO.20-1.

Fig.10. FUEL TANK

P/C NEWS No:Y00S4102-1
PUBLISHED:2006/08



∴ MARKED PART HAS BEEN CHANGED (ADDED).

(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-14110	TANK ASSY, FUEL	1							
1-1	1	772456-14111	TANK ASSY, FUEL	1							N
(A=M/#21074)											
3	2	172456-14150	GAUGE, FUEL	1							
3-1	2	172456-14151	GAUGE, FUEL	1							N
(A=*2004.07)											
4	2	172447-14160	FLOAT	1							
5	2	172162-14200	GASKET	1							
6	2	172444-14200	CAP, FUEL	1							
7	3	172444-14450	CAP	1							
8	3	172444-14460	GASKET	1							
9	3	172444-14470	GASKET	1							
10	3	172444-14480	WASHER	1							
11	3	172444-14490	SPONGE	1							
12	2	172458-14201	HOSE, FUEL GAUGE	1							
12-1	2	172458-14202	HOSE, FUEL GAUGE	1							N
(A=M/#21074)											
13	2	172183-14250	FILTER (FUEL	1							
14	2	23000-013000	CLAMP, 13	2							
15	2	26557-050122	SCREW, M5X12	5							
15-1	2	26022-050122	SCREW, M5X12	5							N
(A=M/#20907)											
16	1	104200-11920	COCK, WATER	1							
17	1	172444-14270	JOINT, DRAIN	1							
18	1	172456-14300	CLAMP ASSY, FUEL	1							
20	2	172456-14330	RUBBER, CLAMP	1							
21	1	172456-14340	PLATE ASSY(GREEN:97)	1							
21-1	1	172456-14341	PLATE ASSY	1							N
(A=MZZZZZ)											
22	2	172444-14130	PLATE A	1							
24	1	172458-14340	RUBBER PLATE A,FO	1							
25	1	172458-14370	SUMP, FUEL	1							
26	1	172444-14410	HOSE	1							
27	1	172456-14650	HOSE 9.5X700	1							
27-1	1	172444-14260	HOSE, FUEL	1							S 1
(A=M/#21745)											
28	1	124766-59050	CLIP, HOSE 12	2							
29	1	22137-100000	WASHER, 10	1							
30	1	26367-100002	NUT, M10	2							
31-1	1	23080-013000	CLAMP, 13	1							
31-2	1	106990-44660	CLIP, HOSE 12.5	1							R
(A=M/#26441)											
32	1	23080-013000	CLAMP, 13	1							
33	1	26013-080202	BOLT, M8X 20	1							
34	1	26013-100202	BOLT, M10X 20	1							
35	1	26013-100202	BOLT, M10X 20	3							

Remarks
(1)REF.NO.27:L=700MM,NO.27-1:L=670MM

Fig.11. FUEL LINE

(A)=VIO20-2(US)

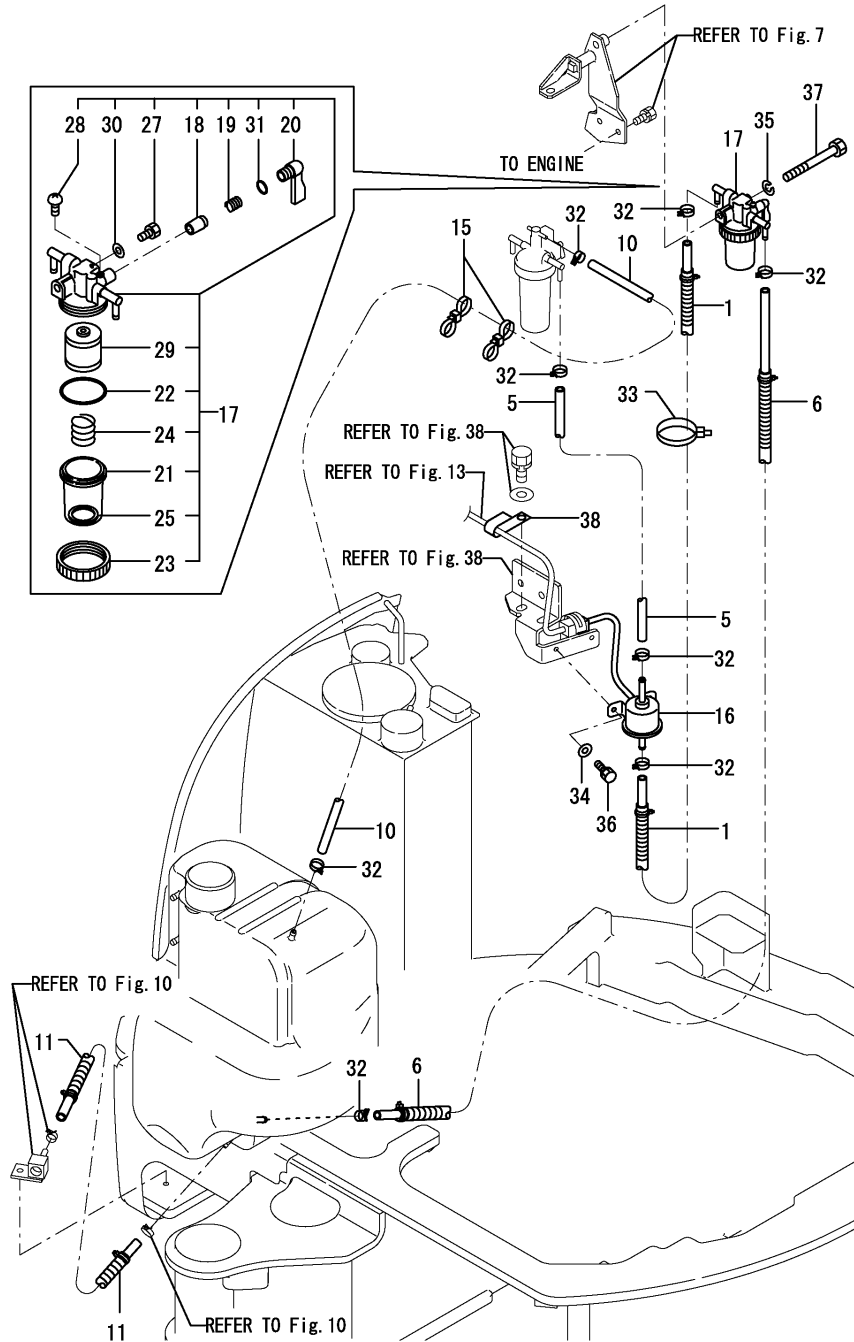
(B)=

(C)=

(D)=

(E)=

(F)=

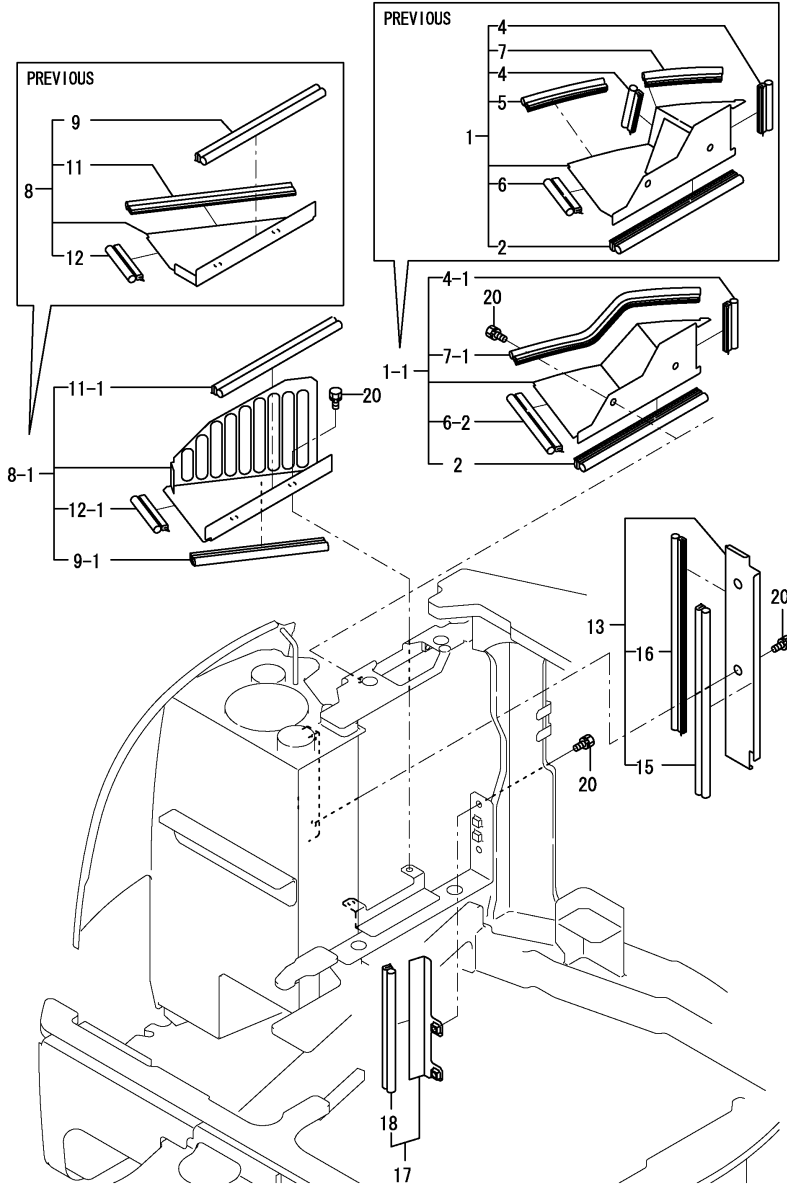


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172186-13810	HOSE	1							
5	1	172171-14610	HOSE, FUEL	1							
6	1	172456-14610	HOSE,FO1470 ASSY	1							
10	1	172122-14620	PIPE, FUEL	1							
10-1	1	172A23-14100 (A=MXXXXX)	PIPE (C), FUEL	1							N
10-2	1	172487-14520 (A=MZZZZZ)	HOSE	1							N
11	1	172456-14630	HOSE,FO 150 ASSY	1							
15	1	172137-16560	BAND	2							
15-1	1	172126-11510 (A=MZZZZZ)	BAND	5							N
16	1	129612-52100	PUMP ASSY, FUEL FEED	1							
17	1	129335-55700	SEPARATOR ASSY,WATER	1							
18	2	104200-55321	VALVE, TAPER	1							
19	2	104200-55330	SPRING, VALVE	1							
20	2	104200-55341	HANDLE	1							
21	2	124064-55510	COVER	1							
22	2	102103-55520	O-RING	1							
23	2	110250-55610	RING, RETAINING	1							
24	2	121257-55720	SPRING	1							
25	2	121257-55731	FLOAT	1							
27	2	101720-55750	PLUG, 6	2							
28	2	104200-55750	SCREW, M4	1							
29	2	171081-55910	SCREEN	1							
30	2	23418-060000	GASKET, 6X1.0	2							
31	2	24311-240100	O-RING, 1AP10A	1							
32	1	124766-59050	CLIP, HOSE 12	8							
33	1	172122-79930	CLAMP, HOSE	1							
34	1	22137-060000	WASHER, 6	2							
35	1	22217-080000	WASHER, SPRING 8	1							
36	1	26013-060202	BOLT, M6X 20	2							
37	1	26116-080702	BOLT, M8X 70 PLATED	1							
38	1	172126-16540 (A=M/#21597)	CLAMP	1							W

Fig.40. DUCT

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-65700	DUCT	1							1
1-1	1	172456-65701	DUCT	1							N
(A=M/#21637)											
2	2	172444-54920	SEAL, WEIGHT	1							
4	2	172456-65790	RUBBER, SEAL	2							
4-1	2	172456-65790	RUBBER, SEAL	1							K
(A=M/#21637)											
5	2	172456-65800	RUBBER, SEAL 150	1							Z
(A=M/#21637)											
6	2	172171-65850	RUBBER, SEAL	1							
6-1	2	172455-13610	RUBBER, SEAL	1							R
(A=M/#21637)											
6-2	2	172162-15320	SEAL	1							R
(A=M/#21694)											
7	2	172456-65860	RUBBER, SEAL	1							
7-1	2	172149-13340	RUBBER, RADIATOR	1							N
(A=M/#21637)											
8	1	172456-65750	DUCT	1							
8-1	1	172456-65751	DUCT	1							N
(A=M/#21637)											
9	2	172444-54920	SEAL, WEIGHT	1							
9-1	2	172175-64810	SEAL	1							N
(A=M/#21637)											
11	2	172455-65970	RUBBER, SEAL	1							
11-1	2	172444-54910	SEAL, WEIGHT	1							N
(A=M/#21637)											
12	2	172164-66650	RUBBER, SEAL	1							
12-1	2	172164-61250	RUBBER, SEAL	1							N
(A=M/#21637)											
13	1	172456-65770	DUCT, RESERVOIR	1							Z
(A=M/#21637)											
15	2	172456-65850	SEAL, DUCT 385	1							Z
(A=M/#21637)											
16	2	172164-66640	RUBBER, SEAL	1							Z
(A=M/#21637)											
17	1	172456-65820	PLATE,DUCT (GRAY:73)	1							Z
(A=M/#21637)											
18	2	172444-54910	SEAL, WEIGHT	1							Z
(A=M/#21637)											
20	1	26013-100202	BOLT, M10X 20	8							
20-1	1	26013-100202	BOLT, M10X 20	4							K
(A=M/#21637)											
21A	1	172437-03390	LABEL,RADIATOR	1							2

Remarks

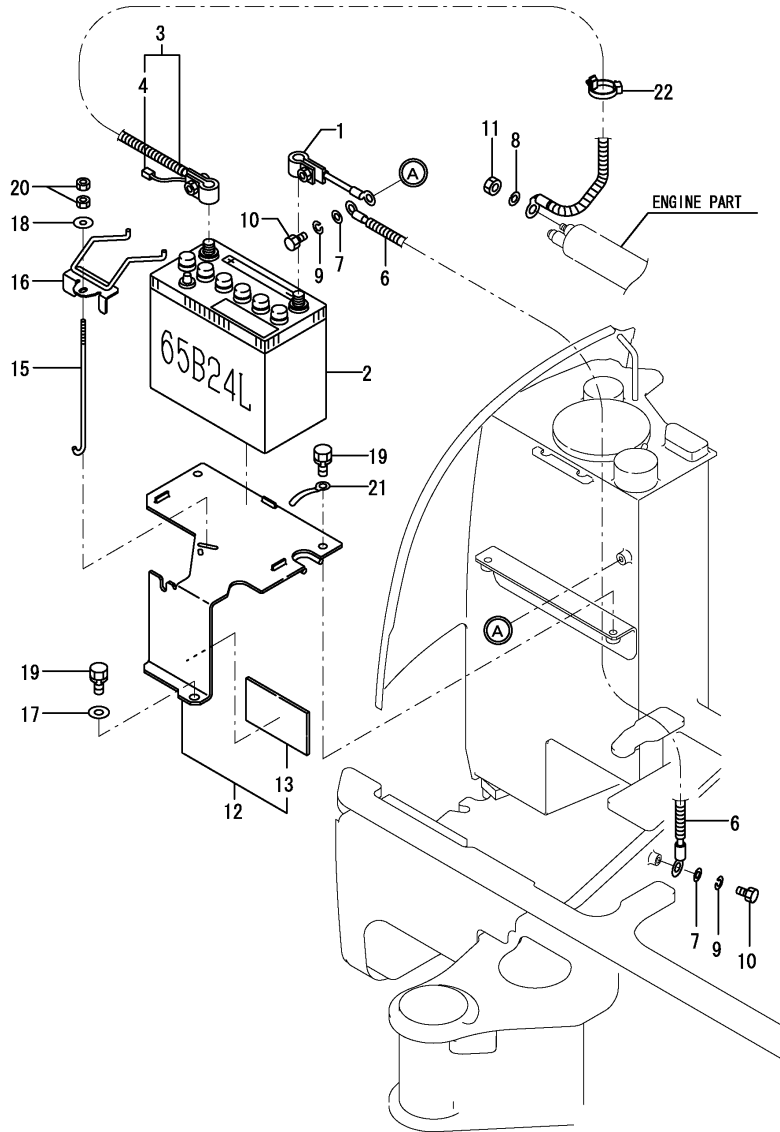
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.21A

(2)LABELS ARE NOT ILLUSTRATED.

Fig.12. BATTERY

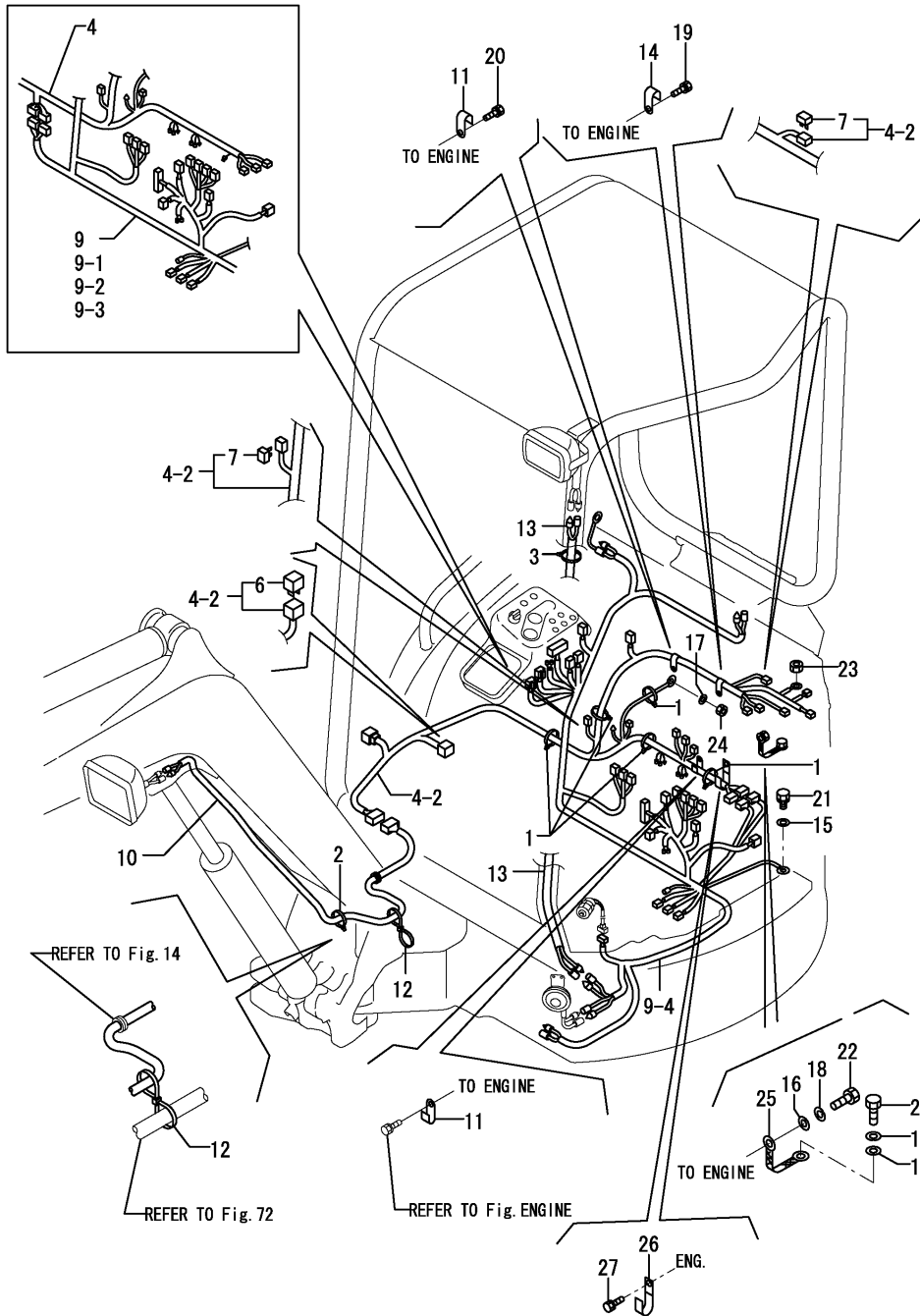
(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-16110	HARNES,BATTERY(-)	1							
2	1	172458-16110	BATTERY	1							
3	1	172456-16200	CORD, BATTERY	1							
4	2	172458-16140	HARNES, WIRE	1							
6	1	172456-16210	CORD, BATTERY	1							
7	1	22137-080000	WASHER, 8	2							
8	1	22217-080000	WASHER, SPRING 8	1							
9	1	22217-080000	WASHER, SPRING 8	2							
10	1	26116-080162	BOLT, M8X 16 PLATED	2							
11	1	26716-080002	NUT, M8	1							
12	1	172456-16100	BRACKT,BATTERY	1							
12-1	1	172456-16101	BRACKT,BATTERY	1							N
(A=MZZZZZ)											
13	2	172444-14130	PLATE, RUBBER	1							
15	1	172725-16160	ROD, BATTERY CLAMP	1							
16	1	172458-16300	CLAMP ASSY, BATTERY	1							
17	1	22137-100000	WASHER, 10	1							
18	1	22157-060000	WASHER, 6	1							
19	1	26013-100202	BOLT, M10X 20	3							
20	1	26716-060002	NUT, M6	2							
21	1	172126-16540	CLAMP	1							W
(A=MZZZZZ)											
22	1	194680-51670	BAND, CLIP	1							W
(A=MZZZZZ)											

Fig.13. ELECTRIC PARTS(WIRING)



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND 300	5							
2	1	172126-11510	BAND 300	1							
3	1	172126-11510	BAND 300	1							
4	1	172456-16500	HARNESS ASSY ,A	1							
4-1	1	172456-16501	HARNESS (A) ASSY	1							N
(A=M/#21581)											
4-2	1	172456-16502	HARNESS ASSY ,A	1							S
(A=M/#21915)											
6	2	172458-16550	HUSE,SLOW BLOW (50A	1							
7	2	172648-16600	DIODE	2							
9	1	172469-16520	HARNESS B ASSY,US	1							
9-1	1	172469-16521	HARNESS B ASSY	1							N
(A=M/#21310)											
9-2	1	172469-16522	HARNESS B ASSY (US	1							N
(A=M/#21547)											
9-3	1	172469-16523	HARNESS (B) ASSY (US	1							N
(A=M/#21581)											
9-4	1	172469-16524	HARNESS B ASSY,US	1							S
(A=M/#21915)											
10	1	172456-16530	HARNESS,BOOM LAMP	1							
11	1	172126-16540	CLAMP	2							
12	1	172137-16560	BAND	1							
13	1	172458-16560	HARNESS,CANOPY LAMP	1							
13-1	1	172458-16561	HARNESS,CANOPY LAMP	1							N
(A=M/#21169)											
14	1	194440-51620	CLAMP	1							
15	1	22137-100000	WASHER, 10	1							
16	1	22137-120000	WASHER, 12	2							
17	1	22217-050000	WASHER, SPRING 5	1							
18	1	22217-120000	WASHER, SPRING 12	2							
19	1	26013-080162	BOLT, M8X 16	1							
20	1	26013-100162	BOLT, M10X 16	1							
21	1	26013-100202	BOLT, M10X 20	1							
22	1	26116-120162	BOLT, M12X 16 PLATED	2							
23	1	26716-040002	NUT, M4	1							
24	1	26716-050002	NUT, M5	1							
25	1	933171-15801	CORD, ENGINE EARTH	1							
26	1	1A1380-59480	CLAMP, CORD	1							W
(A=M/#21915)											
27	1	26013-100202	BOLT, M10X 20	1							W
(A=M/#21915)											

Fig.14. ELECTRIC PART(EQUIPMENT)

(A)=VIO20-2(US)

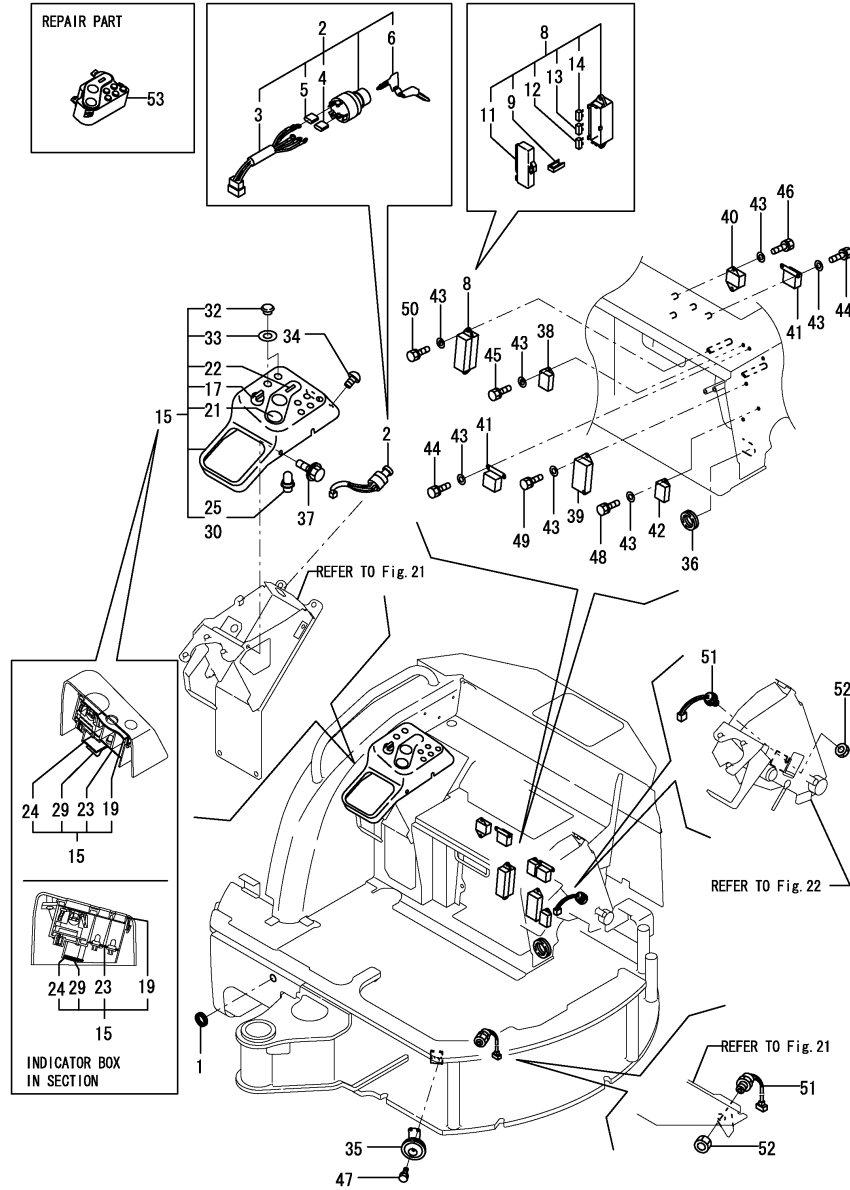
(B)=

(C)=

(D)=

(E)=

(F)=



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R
1	1	172187-16560	GROMMET	1								
2	1	172458-17100	SWITCH ASSY, STARTER	1								
2-1	1	172187-17100	SWITCH ASSY, STARTER	1								R
(A=M/#21585)												
3	2	172187-17070	CORD ASSY	1								
4	2	172187-17080	COVER	3								
5	2	172187-17090	COVER	2								
6	2	172524-17330	KEY ASSY	1								
6-1	2	933110-00301	KEY ASSY	1								R
(A=M/#21585)												
8	1	172187-17200	BOX, FUSE	1								
9	2	172175-17120	PULLER	1								
11	2	172187-17220	COVER	1								
12	2	29420-050000	FUSE, B 5A	2								
13	2	29420-150000	FUSE, B 15A	6								
14	2	29420-300000	FUSE, B 30A	2								
15	1	172458-17500	BOX,INDICATOR(CANOPY)	1								1
15-1	1	172458-17501	BOX,INDICATOR(CANOPY)	1								N
(A=*2004.04)												
17	2	172187-17280	SWITCH ASSY, LIGHT	1								
19	2	172187-17320	PACKING	1								
21	2	172187-17341	GAUGE ASSY	1								
22	2	172187-17350	METER ASSY, HOUR	1								
23	2	172187-17360	PRINT,CIRCUIT	1								
24	2	172187-17371	CIRCUIT ASSY	1								
25	2	172187-17380	BULB	4								
29	2	172187-17470	PLATE	1								
30	2	172187-17480	BULB	2								
32	2	172187-17560	CAP	2								
33	2	172187-17570	GASKET	2								
34	1	172458-46720	BOLT 8X20	1								
35	1	194151-57100	HORN	1								
36	1	172165-62800	GROMMET	1								
37	1	172519-63240	BOLT	3								
38	1	119247-77100	RELAY, SAFETY	1								
39	1	129136-77200	RELAY, SAFETY	1								
40	1	129155-77810	REGISTER	1								
41	1	119650-77910	RELAY ASSY, GLOW	2								
42	1	129211-77920	TIMER	1								
43	1	22137-060000	WASHER, 6	12								
44	1	26013-060122	BOLT, M6X 12	4								
45	1	26013-060122	BOLT, M6X 12	1								
46	1	26013-060122	BOLT, M6X 12	2								
47	1	26013-060162	BOLT, M6X 16	2								
48	1	26013-060162	BOLT, M6X 16	1								
49	1	26013-060202	BOLT, M6X 20	2								
50	1	26013-060202	BOLT, M6X 20	2								
51	1	194464-52190	SWITCH, SAFETY START	2								
52	1	26776-180002	NUT, LOCK M18	2								
53	1	172A77-17500	MONITOR ASSY	1								W 3

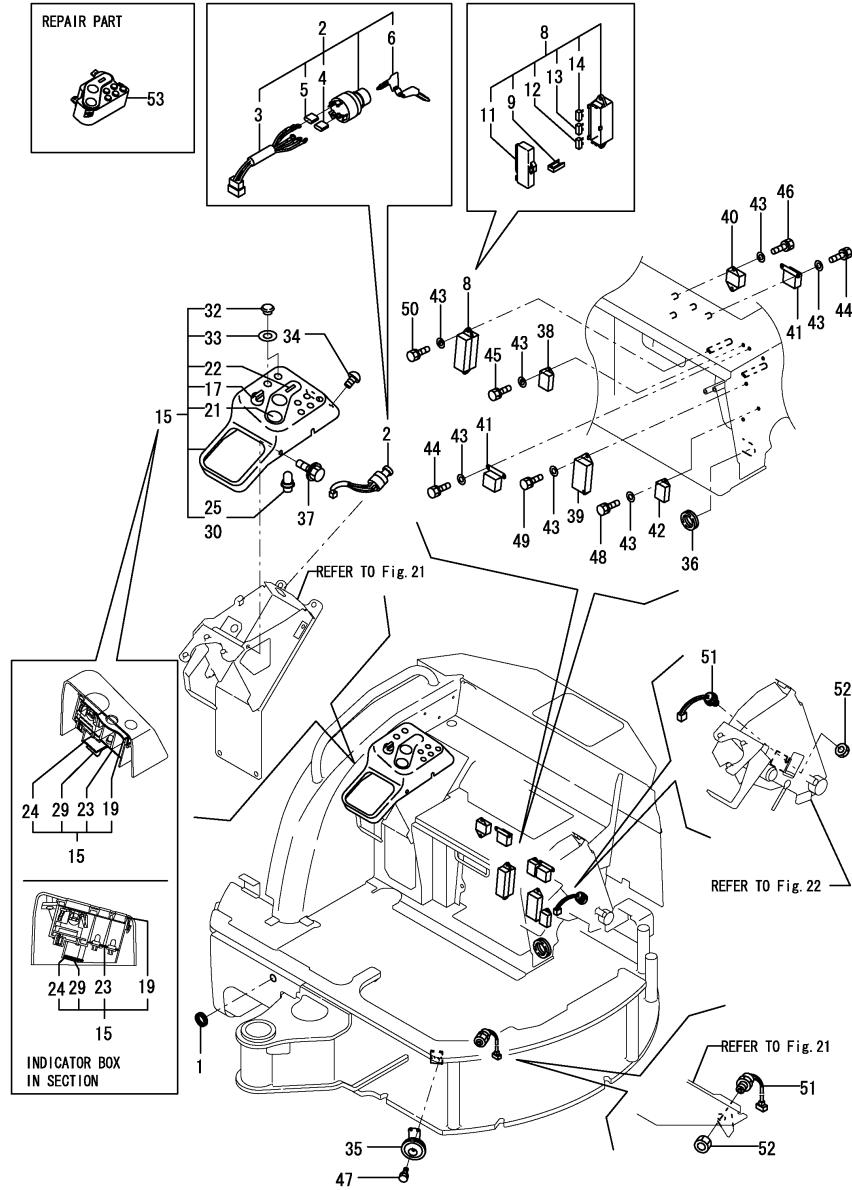
Remarks

- (1)HOUR METER = ANALOG TYPE.
PLEASE PUT REF.NO.54A.
- (2)LABELS ARE NOT ILLUSTRATED.
- (3)HOUR METER = L.C.D. TYPE.

Fig.14. ELECTRIC PART(EQUIPMENT)

(A)=VIO20-2(US)
(B)=
(C)=

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

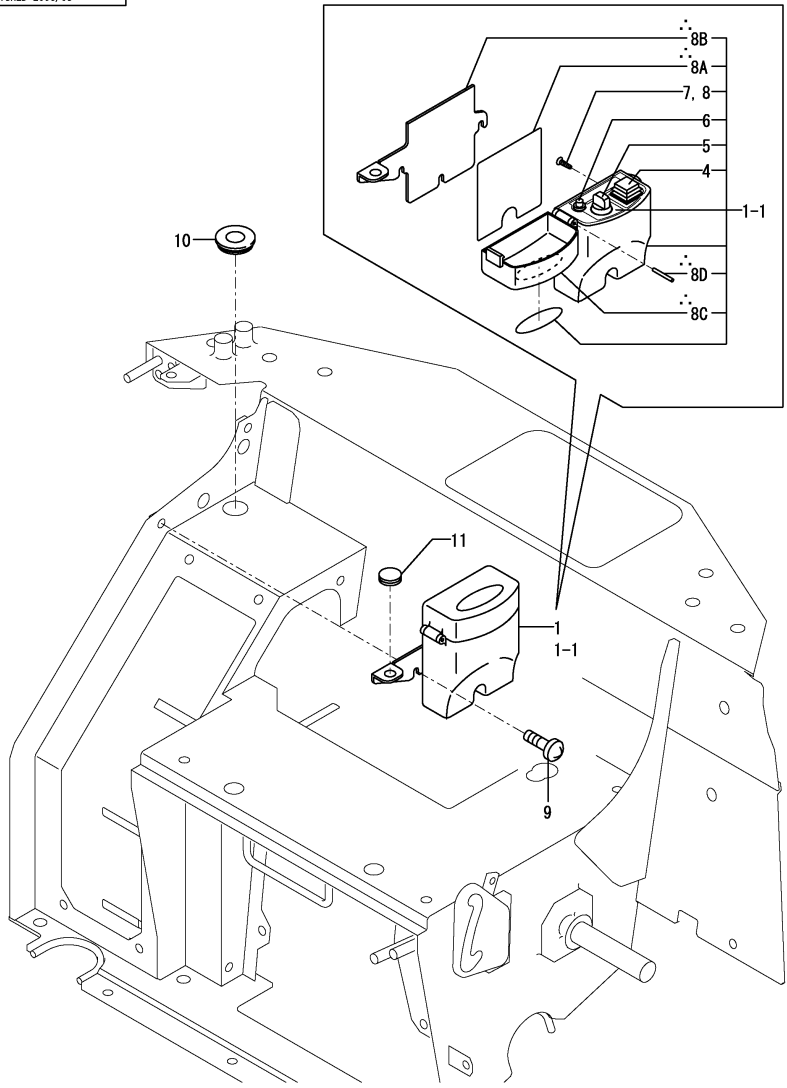


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
54A	1	172141-03360	LABEL, START SWITCH	1							2

Remarks
(1) HOUR METER = ANALOG TYPE.
PLEASE PUT REF.NO.54A.
(2) LABELS ARE NOT ILLUSTRATED.
(3) HOUR METER = L.C.D. TYPE.

Fig.15. SWITCH BOX

P/C NEWS No:Y00S4102-2
PUBLISHED:2006/03



∴ MARKED PART HAS BEEN CHANGED (ADDED).

(A)=VIO20-2(US)
(B)=
(C)=

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

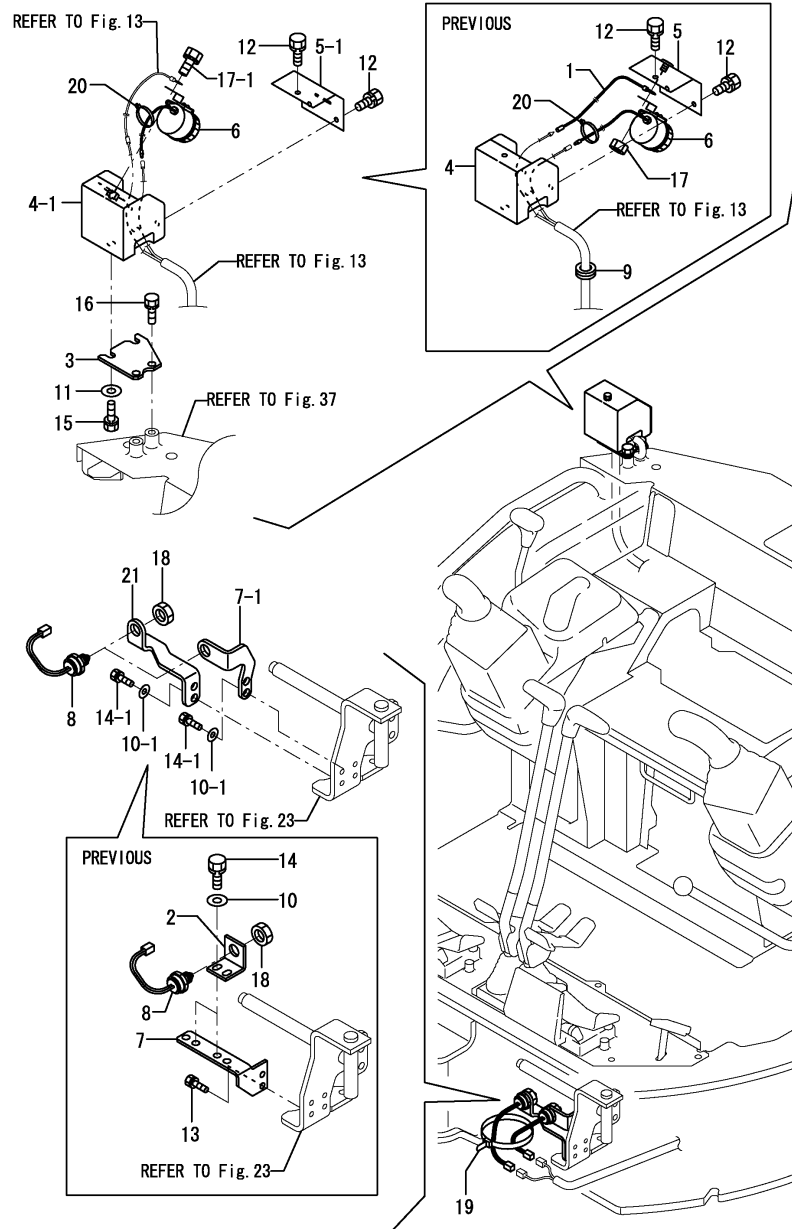
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17100	BOX, SWITCH	1							1
1-1	1	172958-17101	BOX, SWITCH	1							N
		(A=*2004.04)									
4	2	172958-17140	SWITCH ASSY	1							W
		(A=*2004.04)									
5	2	172958-17150	SWITCH ASSY	1							W
		(A=*2004.04)									
6	2	172958-17160	INDICATER LAMP(CP	1							W
		(A=*2004.04)									
7	2	172958-17170	SCREW, TAPPING	1							W
		(A=*2004.04)									
8	2	172958-17180	SCREW, TAPPING	1							W
		(A=*2004.04)									
8A	2	172958-17190	PACKING	1							
8B	2	172958-17200	BRACKET	1							
8C	2	172958-17210	CASE	1							
8D	2	22351-030028	PIN, SPRING 3.0X28	1							
9	1	172137-46210	SCREW	3							
10	1	172958-64500	PLUGE 28X302 Q	1							
11	1	172187-64900	PLUG	1							
12A	1	172472-03290	LABEL, SWITCH	1							2
12B	1	172472-03300	LABEL, COVER	1							2

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

Fig.16. TRAVEL ALARM

(A)=VIO20-2(US)
(B)=
(C)=

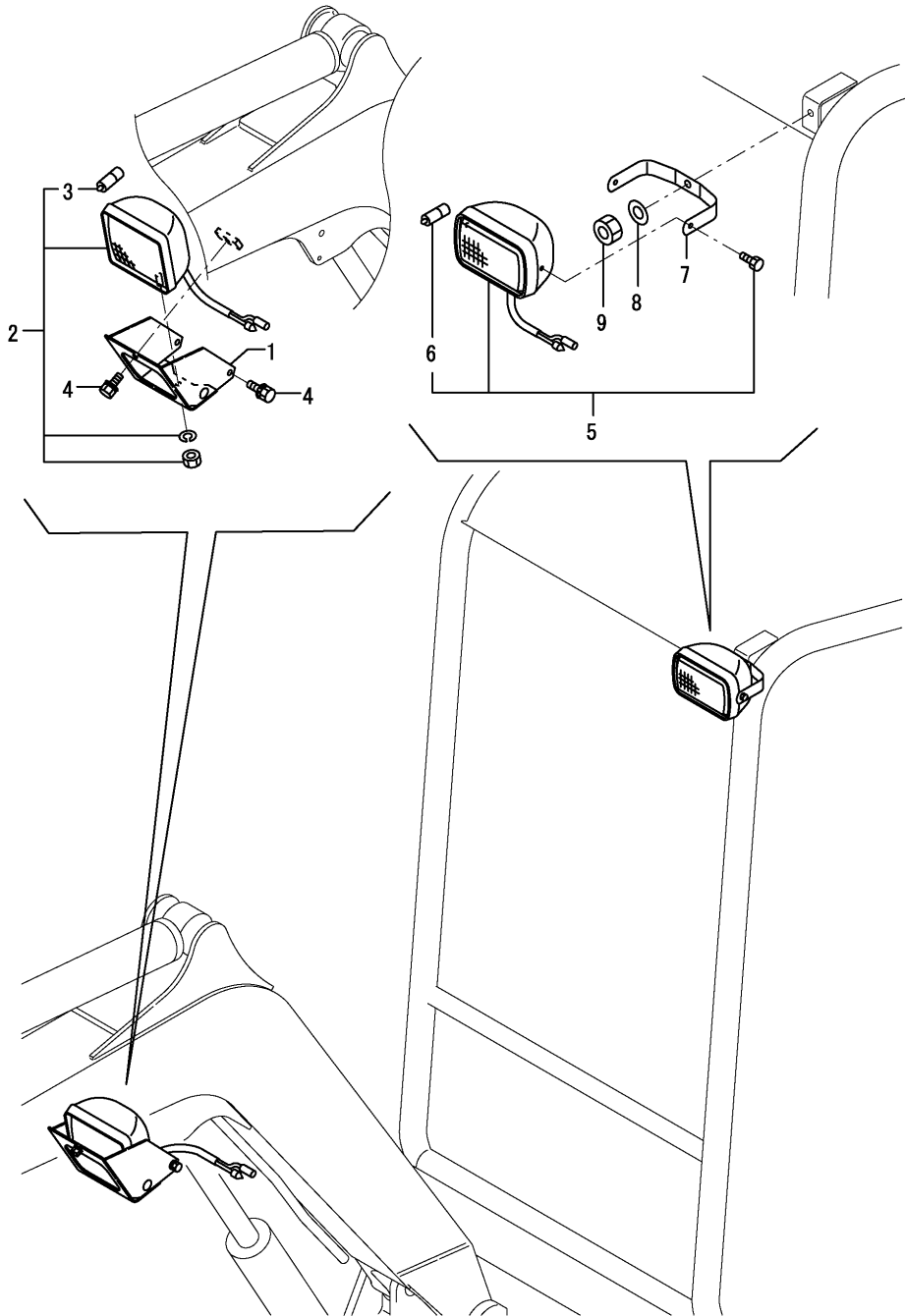
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172460-16590 (A=M/#20980)	HARNES	1							Z
2	1	172519-17112 (A=M/#20980)	BRACKET	2							Z
3	1	172472-17200	PLATE,ALARM	1							
4	1	172463-17210	CASE ASSY, ALARM	1							
4-1	1	172472-17400 (A=M/#21637)	CASE ASSY, ALARM	1							F 1
5	1	172463-17260 (A=M/#21637)	COVER ASSY, CASE	1							
5-1	1	172472-17470	COVER, ALARM CASE	1							S
6	1	172511-17351	BUZZER, BACK	1							
7	1	172460-45160	STAY ASSY, SWITCH	1							
7-1	1	172472-17250 (A=M/#20980)	BRACKET A SSW	1							N
8	1	194464-52190	SWITCH, SAFETY START	2							
9	1	172162-61850 (A=M/#20980)	GROMMET	1							Z
10	1	22137-080000	WASHER, 8	4							
10-1	1	172157-45840 (A=M/#20980)	WASHER 8X18X4	4							N
11	1	22137-100000	WASHER, 10	2							
12	1	26013-060122	BOLT, M6X 12	3							
13	1	26013-080162 (A=M/#20980)	BOLT, M8X 16	2							Z
14	1	26013-080202 (A=M/#20980)	BOLT, M8X 20	4							
14-1	1	26013-080252	BOLT, M8X 25	4							R
15	1	26013-100252 (A=M/#20980)	BOLT, M10X 25	2							
16	1	26013-100252	BOLT, M10X 25	2							
17	1	26716-080002	NUT, M8	1							
17-1	1	26013-080122 (A=M/#21637)	BOLT, M8X 12	1							S
18	1	26776-180002	NUT, LOCK M18	2							
19	1	933152-09280	BAND 170	1							
20	1	933168-55770	BAND 146	1							
21	1	172472-17260 (A=M/#20980)	BRACKET B SSW	1							W

Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF NO.5-1 & 17-1

Fig.17. WORK LAMP & CANOPY LAMP

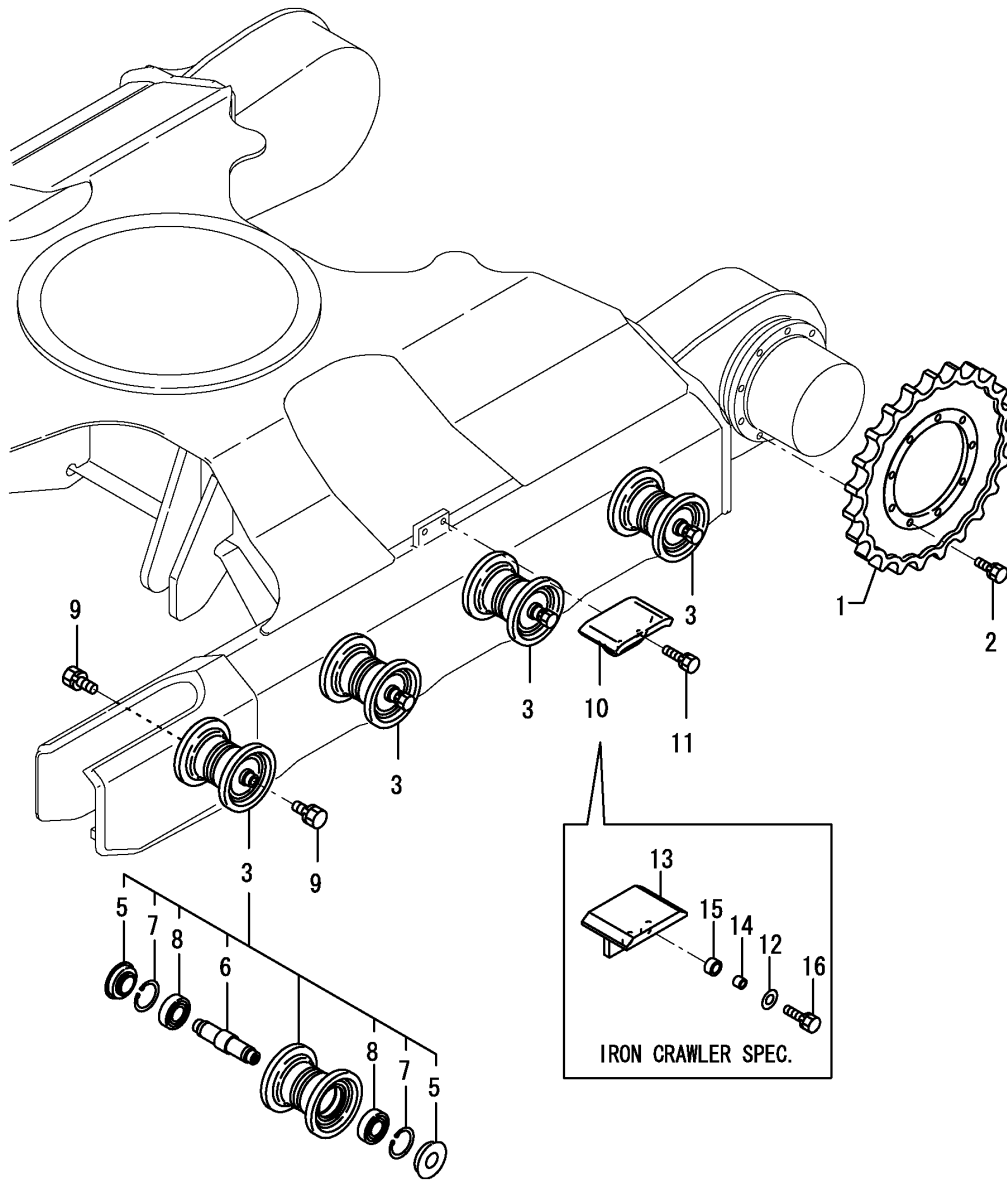


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-17400-1	COVER ASSY, LAMP	1							
1-1	1	172456-17401-3	COVER ASSY, LAMP	1							N
(A=MZZZZZ)											
2	1	172458-17450	LAMP,WORK	1							
3	2	172187-17540	BULB	1							
4	1	26014-080202	BOLT, M8X 20	3							
5	1	172458-17400	LAMP 150X95	1							
6	2	172458-17420	BULB	1							
7	1	172458-17410-1	STAY, LAMP	1							
8	1	22137-100000	WASHER, 10	1							
9	1	26346-100002	NUT, M10	1							

Fig.18. SPROCKET & ROLLER



(A)=VIO20-2(US)
(B)=
(C)=

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

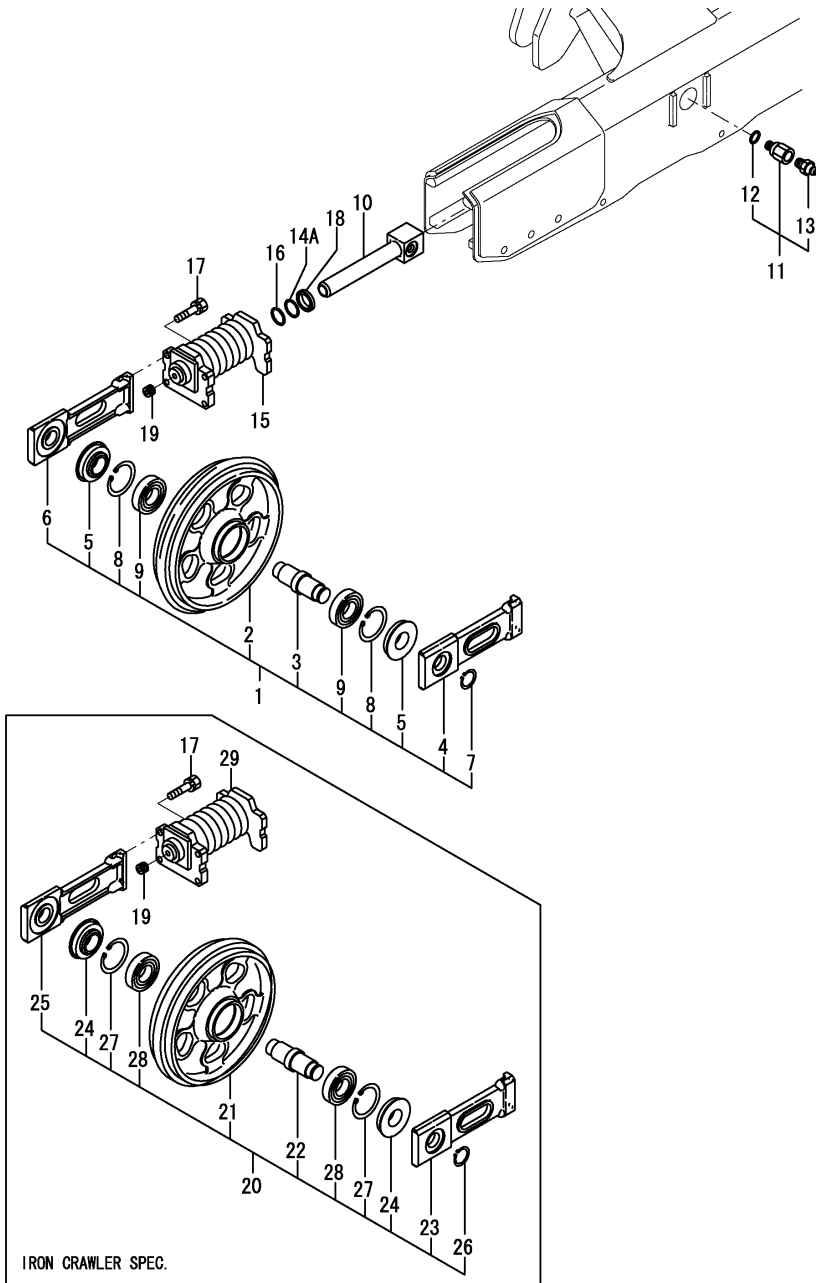
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-29100-1	SPROCKET	2							
2	1	26013-100252	BOLT, M10X 25	18							
3	1	772456-37300-1	TRACK ROLLER ASSY(82	8							
3-1	1	772456-37301-1	TRACK ROLLER ASSY(82	8							R
		(A=M/#21915)									
5	2	172173-37320	SEAL, OIL	16							
5-1	2	1E6140-73420	SEAL, OIL QLF255218	16							R
		(A=M/#21637)									
6	2	172456-37320	SHAFT, ROLLER	8							
7	2	22252-000520	RING, 52	16							
8	2	24101-062054	BEARING, BALL 6205	16							
9	1	26013-120252	BOLT, M12X 25	16							
10	1	172456-37500-1	PLATE (GREEN:82)	2							1
11	1	26013-100302	BOLT, M10X 30	4							1
12	1	172110-36010	COLLAR	4							2
13	1	172173-37500-2	PLATE ,SHOE SLID(82)	2							2
14	1	172183-37510	COLLAR, 11X16X13	4							2
15	1	172183-37520	COLLAR, 16X24X13	4							2
16	1	26013-100352	BOLT, M10X 35	4							2

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

Fig.19. IDLER & CRAWLER ADJUST

(A)=VIO20-2(US)
(B)=
(C)=

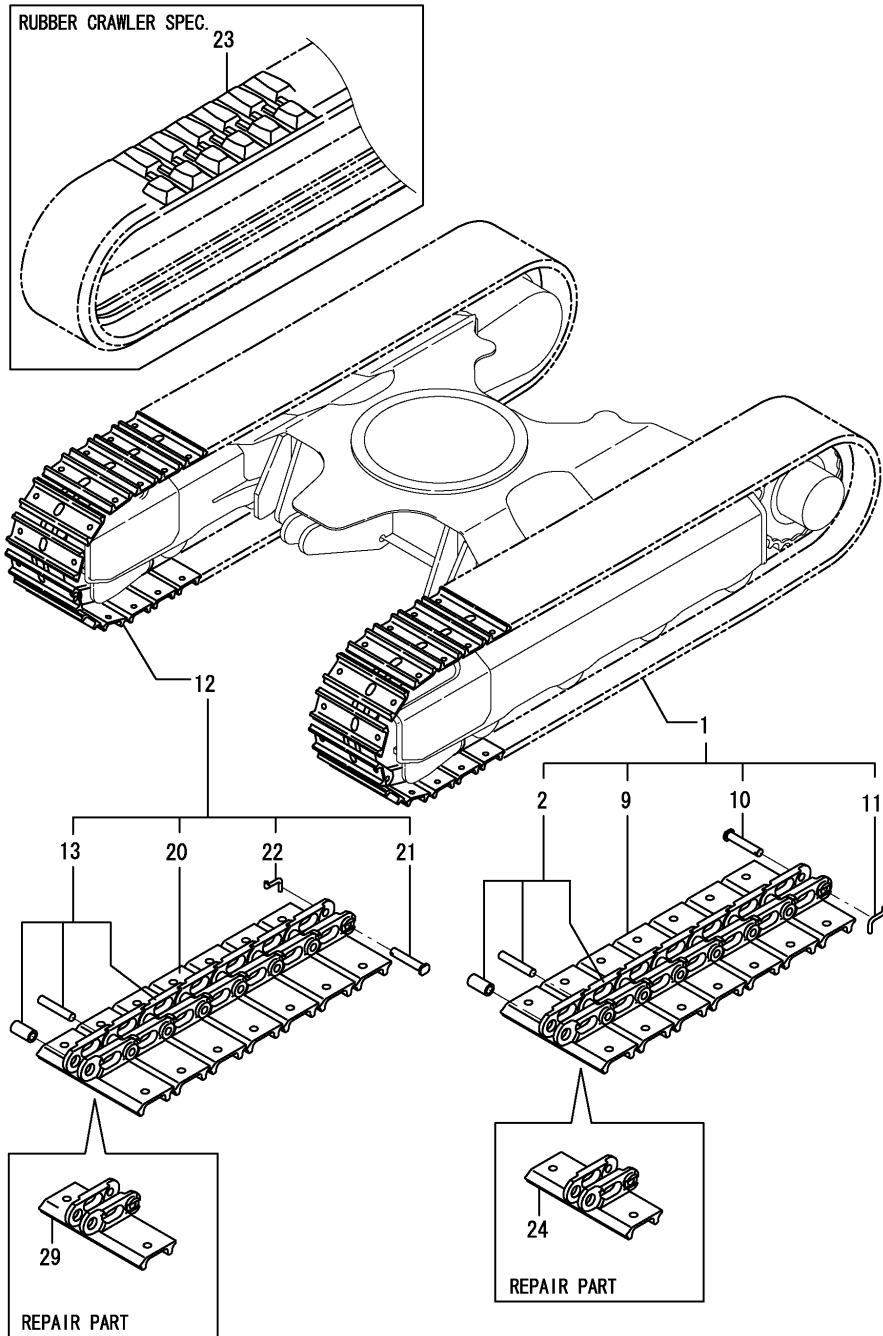
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-37100-1	IDLER ASSY, RUBBER	2							
2	2	172456-37100-1	IDLER ASSY	2							
3	2	172456-37120	SHAFT, IDLER	2							
4	2	172456-37130	COVER, IDLER SEAL	2							
5	2	172141-37140	SEAL, 357220	4							
6	2	172456-37140	COVER, IDLER SEAL	2							
7	2	22242-000300	RING, 30	2							
8	2	22252-000720	RING, 72	4							
9	2	24101-062074	BEARING, BALL 6207	4							
10	1	172456-37800	TUBE ASSY, ADJUST	2							
10-1	1	172456-37801	TUBE ASSY, ADJUST	2							N
(A=M/#26096)											
11	1	172122-37844	VALVE ASSY, NIPPLE	2							
12	2	24315-000140	O-RING, 1BP14.0	2							
13	2	24761-020000	NIPPLE, GREASE PT1/8	2							
14A	1	172A23-37750	RING, BACK UP	2							W
(A=MXXXXXX)											
15	1	172421-37851	SPRING ASSY, ADJUST	2							
16	1	24315-000300	O-RING, 1BP30.0	2							
17	1	26013-100402	BOLT, M10X 40	8							
18	1	933126-38600	SEAL, DUST	2							
19	1	933171-13691	PLUG	2							
20	1	772456-37110-1	IDLER ASSY, IRON	2							1
21	2	172456-37110-1	IDLER ASSY	2							1
22	2	172456-37120	SHAFT, IDLER	2							1
23	2	172456-37130	COVER, IDLER SEAL	2							1
24	2	172141-37140	SEAL, 357220	4							1
25	2	172456-37140	COVER, IDLER SEAL	2							1
26	2	22242-000300	RING, 30	2							1
27	2	22252-000720	RING, 72	4							1
28	2	24101-062074	BEARING, BALL 6207	4							1
29	1	172421-37701	SPRING ASSY, CRAWLER	2							1

Remarks
(1)IRON CRAWLER SPEC.

Fig.20. CRAWLER

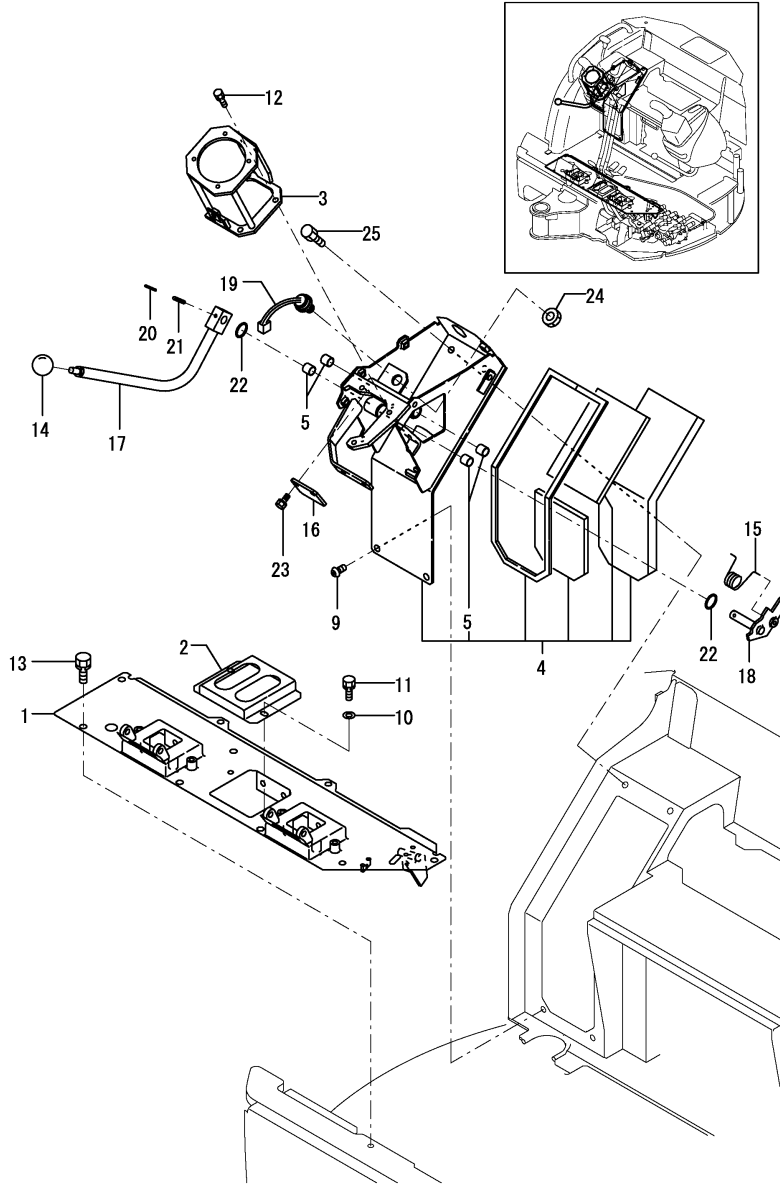


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-38100-1	SHOE ASSY, TRACK 250	1							
2	2	172421-38110-1	LINK, CRAWLER	1							
9	2	172456-38110-1	PLATE,SHOE 250L (71)	44							
10	2	172173-38220	PIN,MASTER	1							
11	2	172173-38300	PIN 4X22,LOCK	1							
12	1	172456-38120-1	SHOE ASSY, TRACK 250	1							
13	2	172421-38110-1	LINK, CRAWLER	1							
20	2	172456-38130	PLATE,SHOE 250R	44							
21	2	172173-38220	PIN,MASTER	1							
22	2	172173-38300	PIN 4X22,LOCK	1							
23	1	172421-38600	CRAWLER, RUBBER 250	2							
24	1	172456-38300-1	TRACK ASSY, MASTER	1							
29	1	172456-38310-1	TRACK ASSY, MASTER	1							

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



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	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	172472-45401	STAND ASSY, LINK	1							N
(A=MZZZZZ)											
2	1	172458-45510	BRACKET,BOOT(BLACK12	1							
3	1	172472-46210	BRACKET ASSY,R (73)	1							
4	1	172472-46800	STAND, LEVER	1							
4-1	1	172472-46801	STAND, LEVER	1							N
(A=M/#25604)											
5	2	172141-41360	BUSH 1415	4							
9	1	172455-61720	BOLT M 10X20	2							
10	1	22137-080000	WASHER, 8	2							
11	1	26013-080162	BOLT, M8X 16	2							
12	1	26013-080202	BOLT, M8X 20	3							
13	1	26013-100202	BOLT, M10X 20	6							
14	1	1D4070-23580	GRIP	1							
15	1	172165-45970	SPRING	1							
16	1	172458-46950	PLATE (GRAY:73)	1							
17	1	172458-47680	LEVER R (GRAY:72)	1							1
18	1	172458-47710	SHAFT ASSY	1							
19	1	194464-52190	SWITCH, SAFETY START	1							
20	1	22351-030032	PIN, SPRING 3.0X32	1							
21	1	22351-050032	PIN, SPRING 5.0X32	1							
22	1	24311-000210	O-RING, 1AP21.0	2							
23	1	26013-080162	BOLT, M8X 16	2							
24	1	26776-180002	NUT, LOCK M18	1							
25	1	26013-100202	BOLT, M10X 20	2							
26A	1	172183-03280	LABEL,LOCK	1							2

Remarks

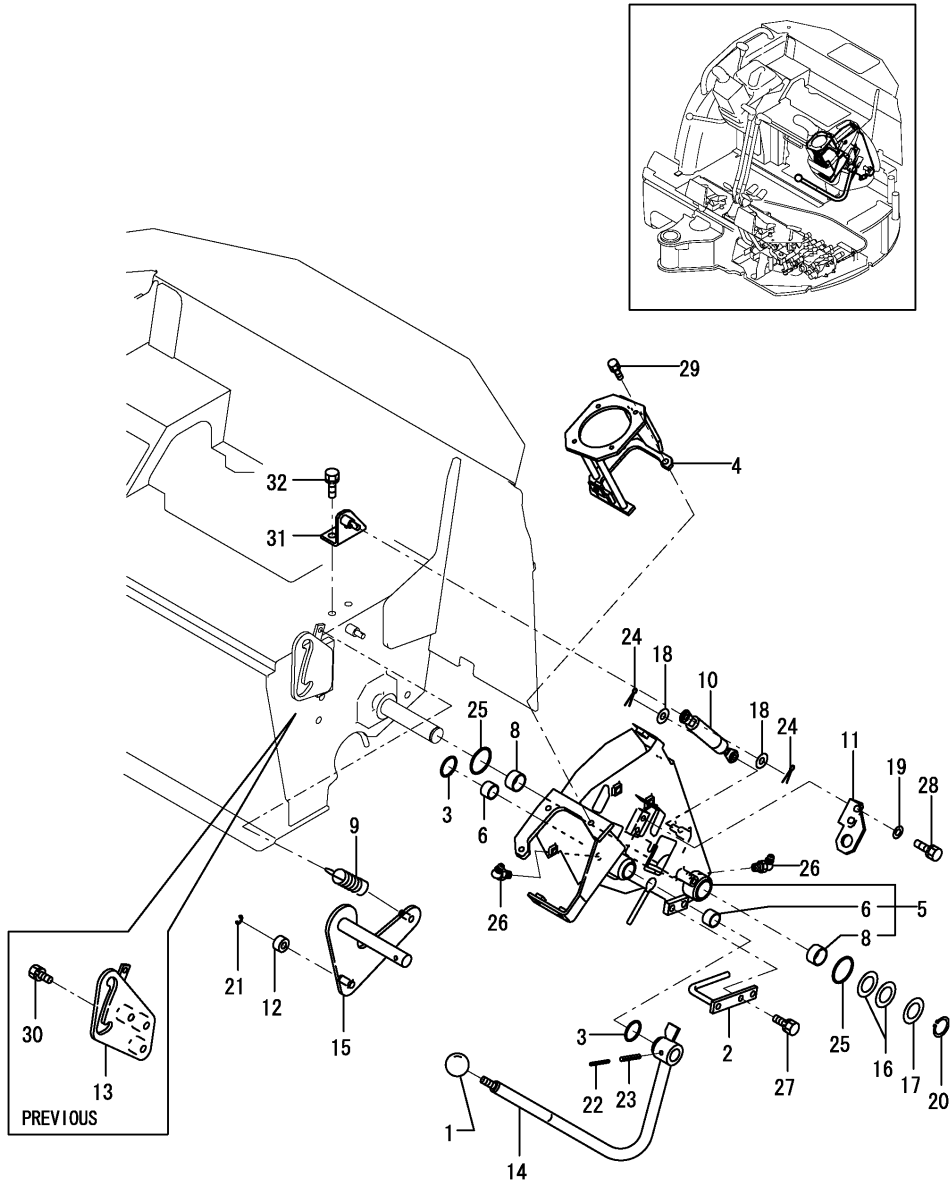
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.26A

(2)LABELS ARE NOT ILLUSTRATED.

Fig.22. CONTROL EQUIPMENT(LOCK LEVER & STAND)LEFT

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP	1							
2	1	172458-45850	GUIDE, HOSE	1							
3	1	172124-46200	O-RING	2							
4	1	172472-46220	BRACKET ASSY,L (73)	1							
5	1	172472-46600	STAND, LEVER	1							
6	2	172141-41370	BUSH 2015	2							
8	2	24550-025150	BUSH, 25X15	2							
9	1	172162-46690	SPRING	1							
10	1	172455-46890	SPRING, GAS	1							
11	1	172455-46950	BRACKET, SWITCH	1							
12	1	172165-47550	BUSH	1							
13	1	172472-47601	GUIDE ASSY, LOCK	1							Z
(A=M/#21637)											
14	1	172472-47620	LOCK LEVER L-US (72)	1							1
15	1	172458-47640	ROD,SPRING (GRAY:73)	1							
16	1	172165-47980	SHIM	2							
17	1	172165-47990	WASHER 25.5X42	1							
18	1	22137-080000	WASHER, 8	2							
19	1	22137-080000	WASHER, 8	2							
20	1	22242-000250	RING, 25	1							
21	1	22272-000070	RING, E- 7	1							
22	1	22351-035040	PIN, SPRING 3.5X40	1							
23	1	22351-060040	PIN, SPRING 6.0X40	1							
24	1	22417-200200	PIN, COTTER 2.0X20	2							
25	1	24311-000340	O-RING, 1AP34.0	2							
26	1	24761-050000	NIPPLE, GREASE C	2							
27	1	26013-080162	BOLT, M8X 16	2							
28	1	26013-080202	BOLT, M8X 20	2							
29	1	26013-080202	BOLT, M8X 20	3							
30	1	26013-100202	BOLT, M10X 20	3							Z
(A=M/#21637)											
31	1	172472-64600	BRACKET (GRAY:73)	1							
32	1	26013-100202	BOLT, M10X 20	2							
33A	1	172183-03280	LABEL,LOCK	1							2

Remarks
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.33A
(2)LABELS ARE NOT ILLUSTRATED.

Fig.23. CONTROL EQUIPMENT(DRIVING LEVER)

(A)=VIO20-2(US)

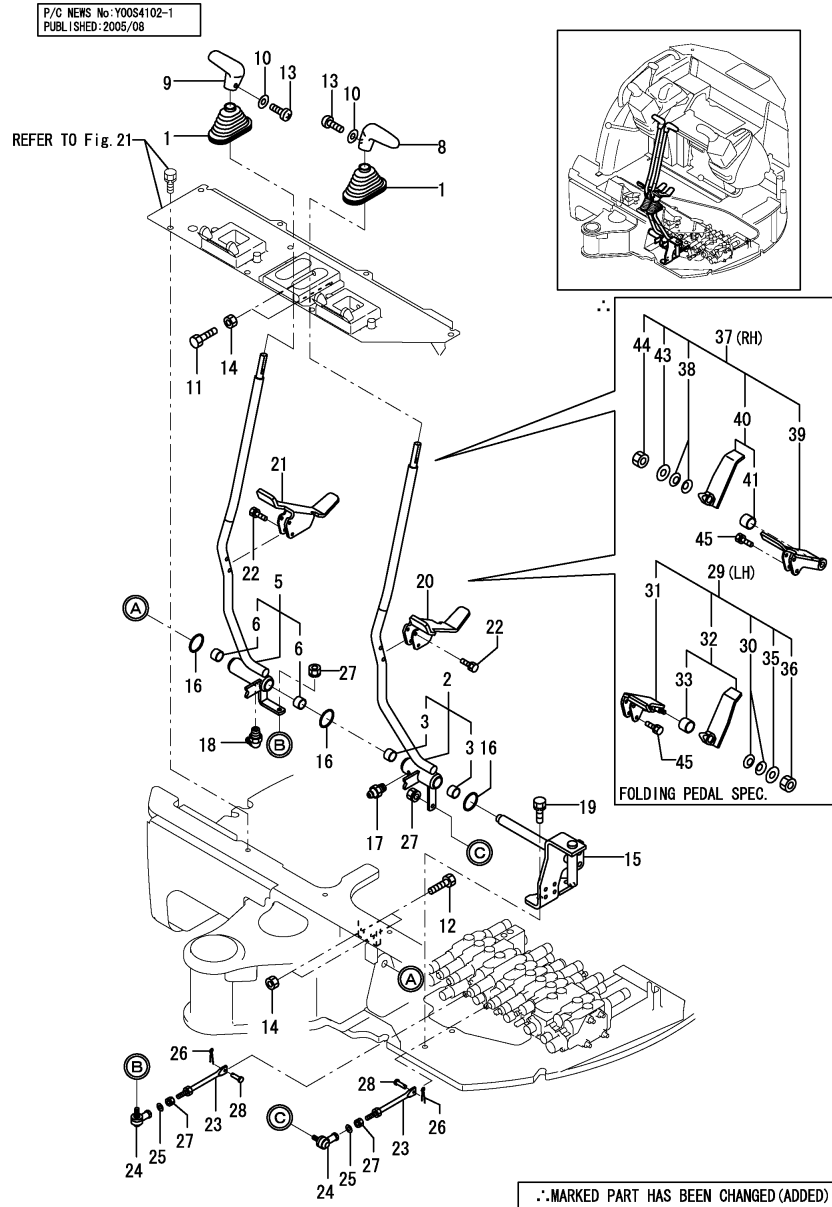
(B)=

(C)=

(D)=

(E)=

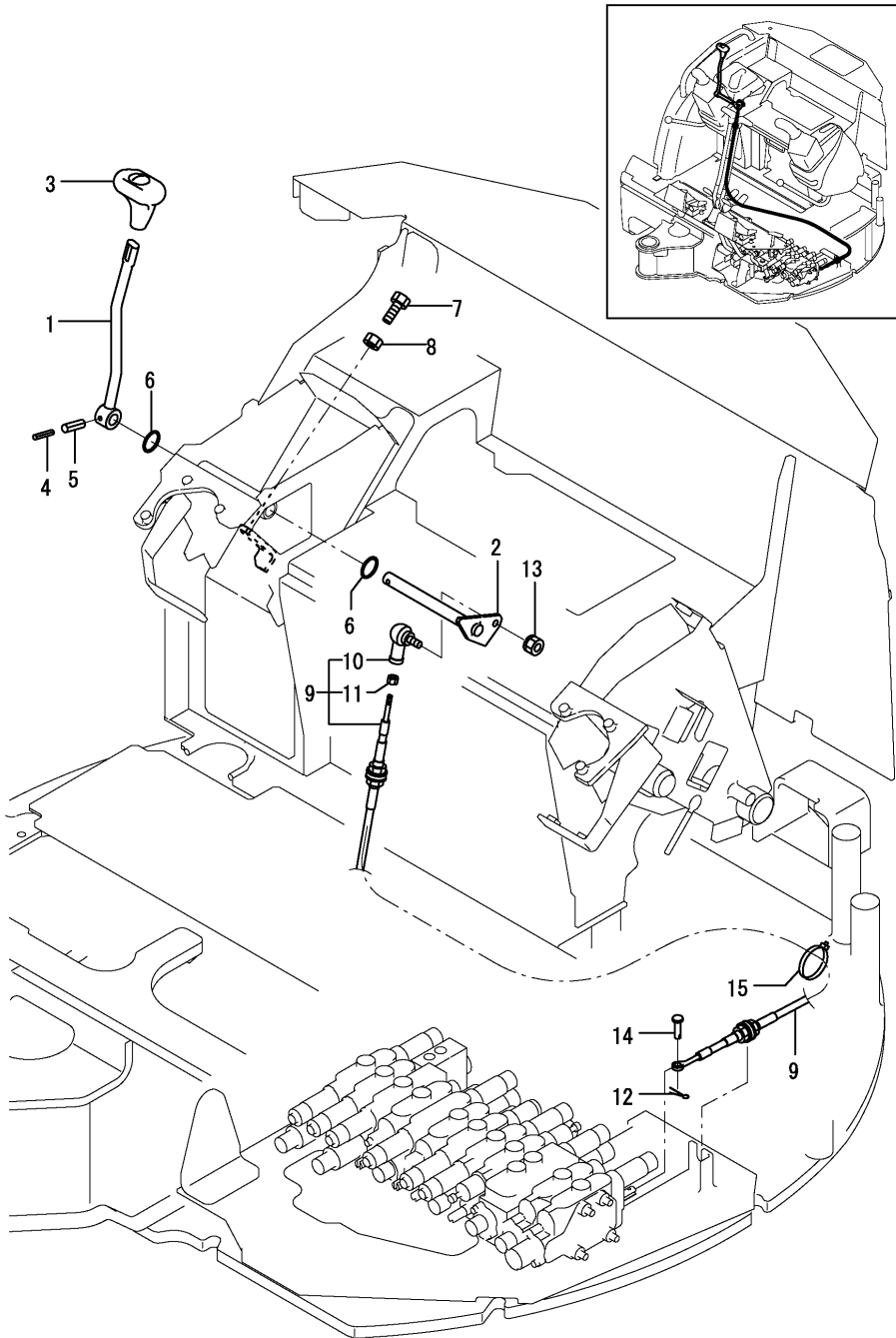
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOTS	2							
2	1	172469-45100	LEVER L,TRUCK(GRAY72)	1							
3	2	172141-41370	BUSH 2015	2							
5	1	172469-45140	LEVER R,TRUCK(GRAY72)	1							
6	2	172141-41370	BUSH 2015	2							
8	1	172187-45870	GRIP, DRIVE	1							
9	1	172187-45880	GRIP, DRIVE	1							
10	1	22117-040000	WASHER, 4	2							
11	1	26116-100404	BOLT, M10X 40 PLATED	2							
12	1	26116-100604	BOLT, M10X 60 PLATED	2							
13	1	26587-040122	SCREW, M4X12	2							
14	1	26716-100002	NUT, M10	4							
15	1	172472-45660	BRACKET ASSY (TRUCK	1							
15-1	1	172472-45661	BRACKET ASSY,TRUCK	1							R
(A=M/#26441)											
16	1	172124-46200	O-RING	3							
17	1	24761-020000	NIPPLE, GREASE PT1/8	1							
18	1	24761-050000	NIPPLE, GREASE C	1							
19	1	26013-100252	BOLT, M10X 25	2							
20	1	172472-45550	PEDAL L ASSY(TRACK	1							
20-1	1	172472-45600	PEDAL L, TRACK F (72)	1							N 1
(A=M/#21218)											
21	1	172472-45580	PEDAL R ASSY(TRACK	1							
21-1	1	172472-45620	PEDAL R, TRACK F (72)	1							N 1
(A=M/#21218)											
22	1	26013-060352	BOLT, M6X 35	4							
23	1	172458-45250	ROD 91 ASSY	2							
24	1	172122-46590	ELBOW	2							
25	1	22117-080000	WASHER, 8	2							
26	1	22417-160160	PIN, COTTER 1.6X16	2							
27	1	26051-080002	NUT, M8	4							
28	1	933110-54100	PIN 4.75X14	2							
29	1	172472-45601	PEDAL L, TRACK (72)	1							W 2
(A=*2004.09)											
30	2	172068-28490	SPRING	2							
31	2	172472-45720	PEDAL FL ASSY, TRACK	1							
32	2	172472-45810	PEDAL RL, TRACK (72)	1							
33	3	172110-45050	BUSH 12X12	1							
35	2	22137-080000	WASHER, 8	1							
36	2	26347-080002	NUT, M8	1							
37	1	172472-45621	PEDAL R, TRACK (72)	1							W 2
(A=*2004.09)											
38	2	172068-28490	SPRING	2							
39	2	172472-45730	PEDAL FR ASSY, TRACK	1							
40	2	172472-45850	PEDAL RR, TRACK (72)	1							
41	3	172110-45050	BUSH 12X12	1							
43	2	22137-080000	WASHER, 8	1							
44	2	26347-080002	NUT, M8	1							
45	1	26013-060302	BOLT, M6X 30	4							

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

Fig.24. CONTROL EQUIPMENT(BLADE LEVER)

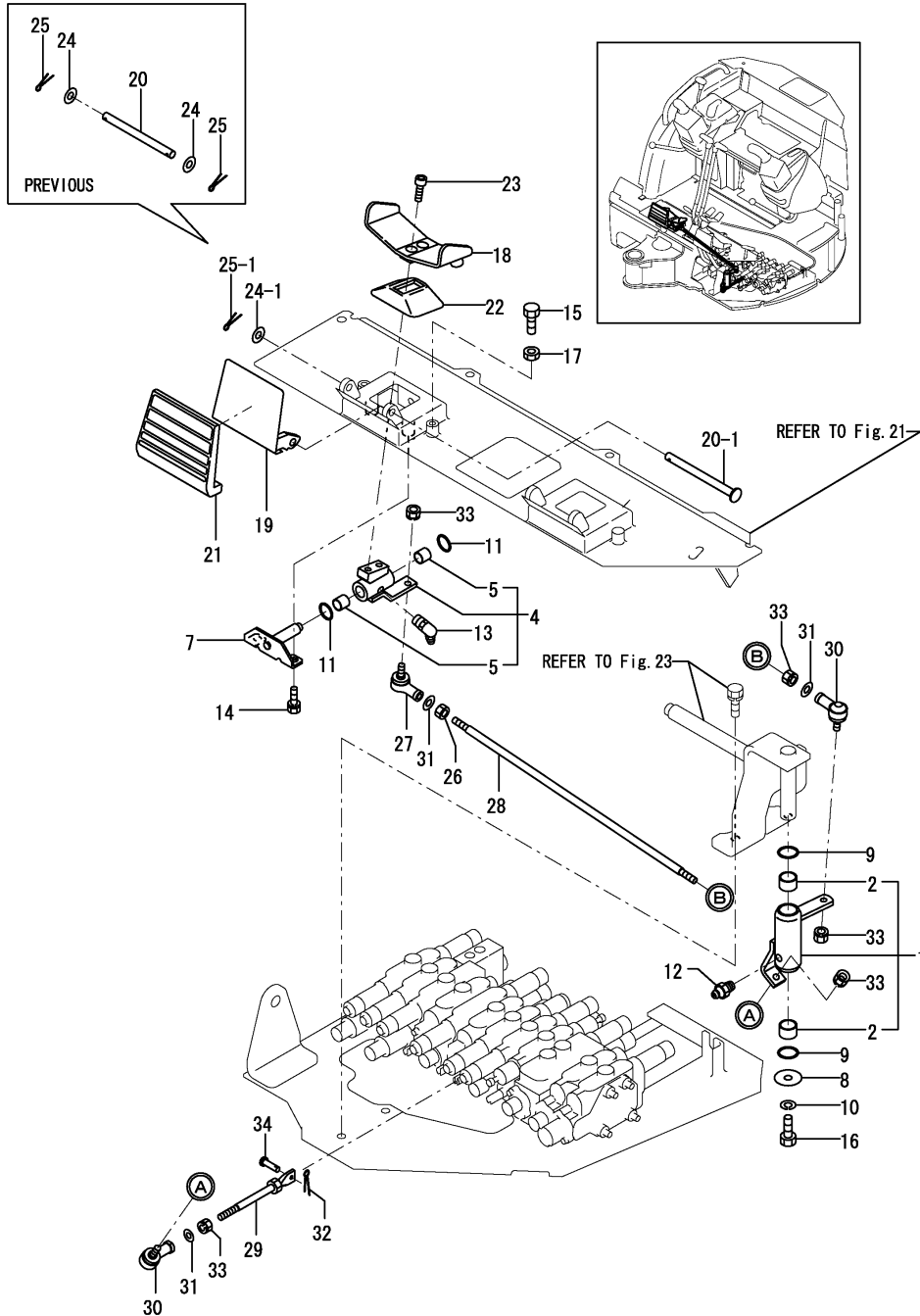


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45700	LEVER, BLADE (GRAY:72)	1							
2	1	172458-45720	SHAFT ASSY	1							
3	1	172164-45970	GRIP, BLADE	1							
4	1	22351-030032	PIN, SPRING 3.0X32	1							
5	1	22351-050032	PIN, SPRING 5.0X32	1							
6	1	24311-000210	O-RING, 1AP21.0	2							
7	1	26116-080202	BOLT, M8X 20 PLATED	2							
7-1	1	26116-080254	BOLT, M8X 25 PLATED	2							N
(A=M/#21858)											
8	1	26716-080002	NUT, M8	2							
9	1	172458-45800	CABLE, BLADE	1							
10	2	172458-45810	JOINT, BALL	1							W
(A=M/#20907)											
11	2	26757-050002	NUT, LOCK M5	1							W
(A=M/#20907)											
12	1	22417-160160	PIN, COTTER 1.6X16	1							
13	1	26051-080002	NUT, M8	1							
14	1	933110-54100	PIN 4.75X14	1							
15	1	933168-55770	BAND 146	1							

Fig.25. CONTROL EQUIPMENT(SWING PEDAL)



(A)=VIO20-2(US)

(B)=

(C)=

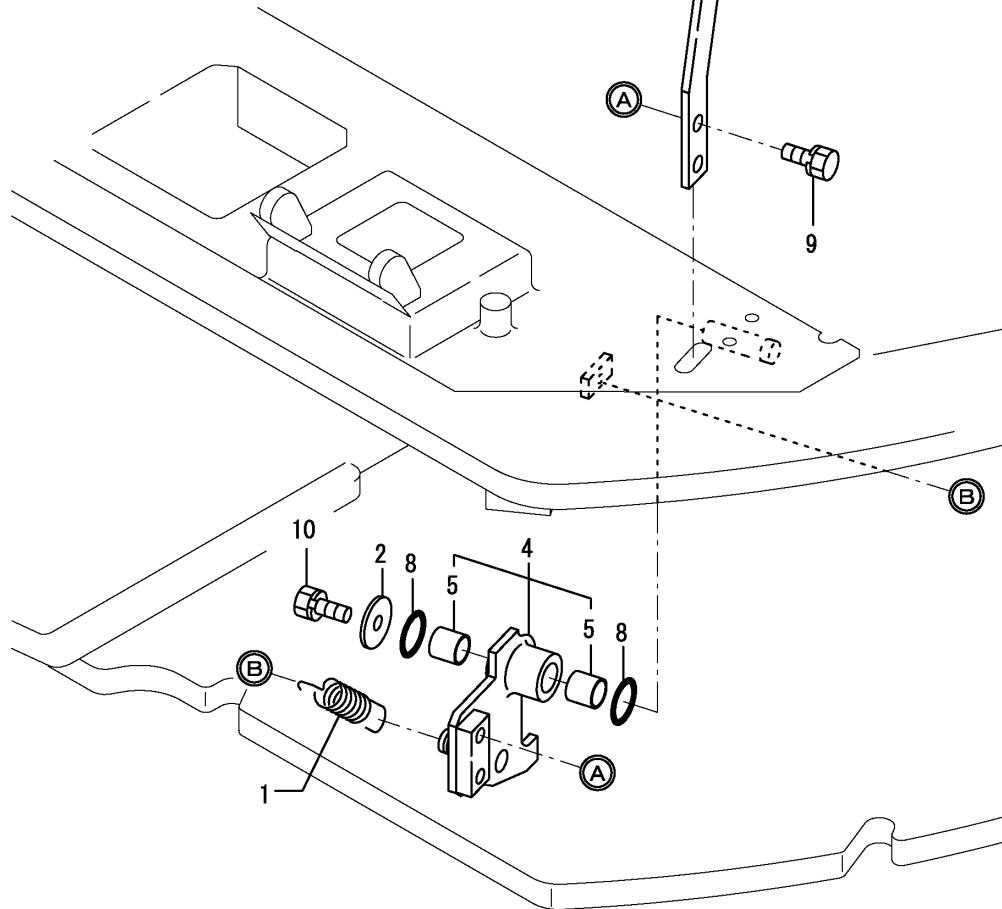
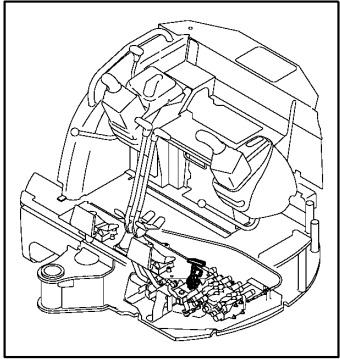
(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-45180	LINK,SWING (GRAY:72)	1							
2	2	172141-41370	BUSH 2015	2							
4	1	172458-45200	LINK,PEDAL (GRAY:72)	1							
5	2	172141-41360	BUSH 1415	2							
7	1	172458-45230	SHAFT, PEDAL	1							
8	1	1A1040-45890	WASHER, 10X36X4.5	1							
9	1	172124-46200	O-RING	2							
10	1	22217-100000	WASHER, SPRING 10	1							
11	1	24311-000210	O-RING, 1AP21.0	2							
12	1	24761-020000	NIPPLE, GREASE PT1/8	1							
13	1	24761-040000	NIPPLE, GREASE B	1							
14	1	26013-080162	BOLT, M8X 16	2							
15	1	26116-080254	BOLT, M8X 25 PLATED	2							
16	1	26116-100202	BOLT, M10X 20 PLATED	1							
17	1	26716-080002	NUT, M8	2							
18	1	172458-45521	PEDAL,SWING(GRAY:72)	1							
19	1	172458-45540	COVER, PEDAL	1							
20	1	172187-45650	SHAFT, COVER	1							
20-1	1	172187-45651	SHAFT	1							R
		(A=M/#21915)									
21	1	172187-45760	COVER PAD	1							
22	1	172157-45990	BOOTS, PEDAL	1							
23	1	172165-46340	BOLT	2							
24	1	22137-100000	WASHER, 10	2							
24-1	1	22137-100000	WASHER, 10	1							K
		(A=M/#21915)									
25	1	22417-250200	PIN, COTTER 2.5X20	2							
25-1	1	22417-250200	PIN, COTTER 2.5X20	1							K
		(A=M/#21915)									
26	1	194200-37780	NUT, M8	1							
27	1	172734-41300	JOINT, BALL	1							
28	1	172456-45160	LOD,SWING	1							
29	1	172823-45940	ROD 130 COMP.	1							
30	1	172122-46590	ELBOW	2							
31	1	22117-080000	WASHER, 8	3							
32	1	22417-160160	PIN, COTTER 1.6X16	1							
33	1	26051-080002	NUT, M8	5							
34	1	933110-54100	PIN 4.75X14	1							

Fig.26. CONTROL EQUIPMENT(LOW-HIGH PEDAL)

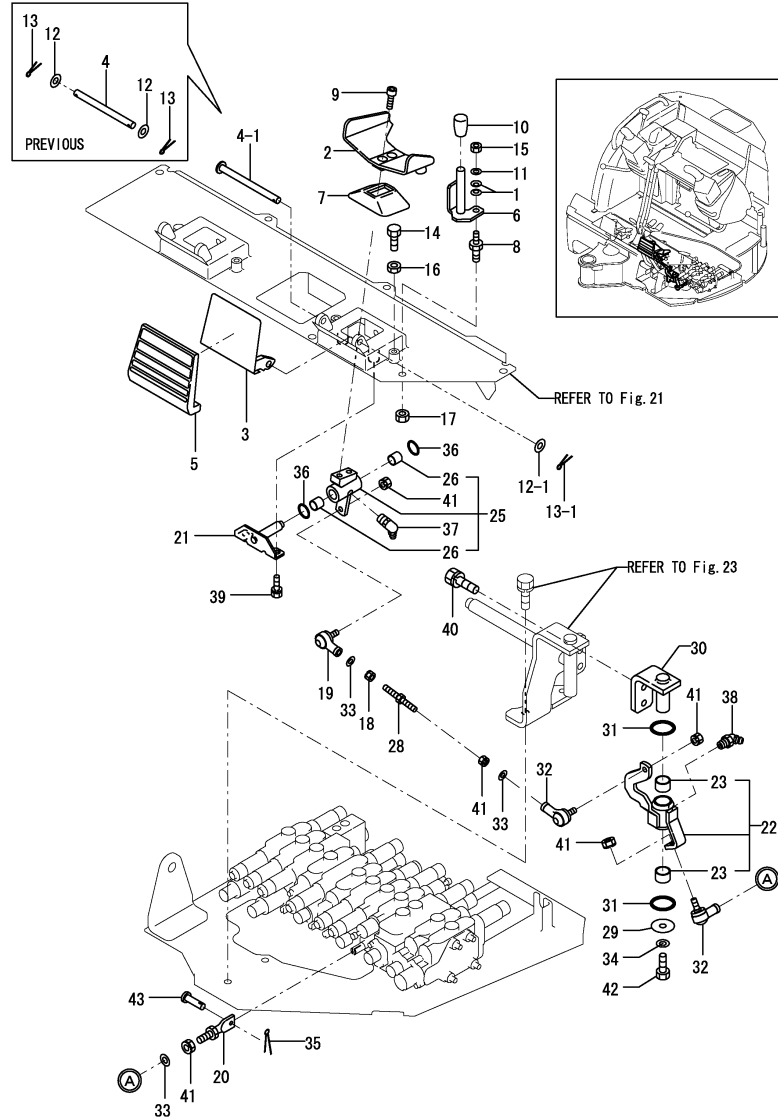


(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172162-12480	SPRING, RETURN	1							
2	1	1A1040-43900	WASHER, SPRING	1							
3	1	172472-45900	PEDAL, LO-HI(GRAY:72)	1							
3-1	1	172487-45900 (A=M/#22186)	PEDAL, LO-HI(GRAY:72)	1							N
4	1	172458-45920	BRACKET, PEDAL(GRAY72)	1							
5	2	172141-41360	BUSH 1415	2							
7	1	172458-45950	PAD, PEDAL	1							
8	1	24311-000210	O-RING, 1AP21.0	2							
9	1	26013-080162	BOLT, M8X 16	2							
10	1	26013-080202	BOLT, M8X 20	1							

Fig.27. CONTROL EQUIPMENT(P.T.O.PEDAL)



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172068-28490	SPRING	2							
2	1	172472-45500	PEDAL,P.T.O.(GRAY:72)	1							
3	1	172458-45540	COVER, PEDAL	1							1
4	1	172187-45650	SHAFT, COVER	1							
4-1	1	172187-45651	SHAFT	1							R
(A=M/#21915)											
5	1	172187-45760	COVER PAD	1							
6	1	172472-45960	LOCK ASSY (GRAY:72)	1							2
6-1	1	172448-45800	PLATE,LOCK(PTO (11)	1							N
(A=M/#21169)											
7	1	172157-45990	BOOTS, PEDAL	1							
8	1	172462-46230	BOLT 8X10	1							
9	1	172165-46340	BOLT	2							
10	1	172116-46630	KNOB, LEVER	1							Z
(A=M/#21169)											
11	1	22137-080000	WASHER, 8	1							
12	1	22137-100000	WASHER, 10	2							
12-1	1	22137-100000	WASHER, 10	1							K
(A=M/#21915)											
13	1	22417-250200	PIN, COTTER 2.5X20	2							
13-1	1	22417-250200	PIN, COTTER 2.5X20	1							K
(A=M/#21915)											
14	1	26116-080254	BOLT, M8X 25 PLATED	2							
15	1	26347-080002	NUT, M8	1							
16	1	26716-080002	NUT, M8	2							
17	1	26757-100002	NUT, LOCK M10	1							
18	1	194200-37780	NUT, M8	1							
19	1	172734-41300	JOINT, BALL	1							
20	1	172823-45000	ROD 54, SPOOL	1							
21	1	172458-45230	SHAFT, PEDAL	1							
22	1	172472-45300	LINK A,P.T.O.(GRAY72)	1							
23	2	172141-41370	BUSH 2015	2							
25	1	172472-45330	LINK B ASSY	1							
26	2	172141-41370	BUSH 2015	2							
28	1	172469-45360	ROD 77	1							
29	1	1A1040-45890	WASHER, 10X36X4.5	1							
30	1	172458-46150	BRACKET,P.T.O. (72)	1							
31	1	172124-46200	O-RING	2							
32	1	172122-46590	ELBOW	2							
33	1	22117-080000	WASHER, 8	3							
34	1	22217-100000	WASHER, SPRING 10	1							
35	1	22417-160160	PIN, COTTER 1.6X16	1							
36	1	24311-000210	O-RING, 1AP21.0	2							
37	1	24761-040000	NIPPLE, GREASE B	1							
38	1	24761-050000	NIPPLE, GREASE C	1							
39	1	26013-080162	BOLT, M8X 16	2							
40	1	26013-100202	BOLT, M10X 20	2							
41	1	26051-080002	NUT, M8	5							
42	1	26116-100202	BOLT, M10X 20 PLATED	1							
43	1	933110-54100	PIN 4.75X14	1							
44A	1	172165-03231	LABEL, P.T.O.	1							3

Remarks

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

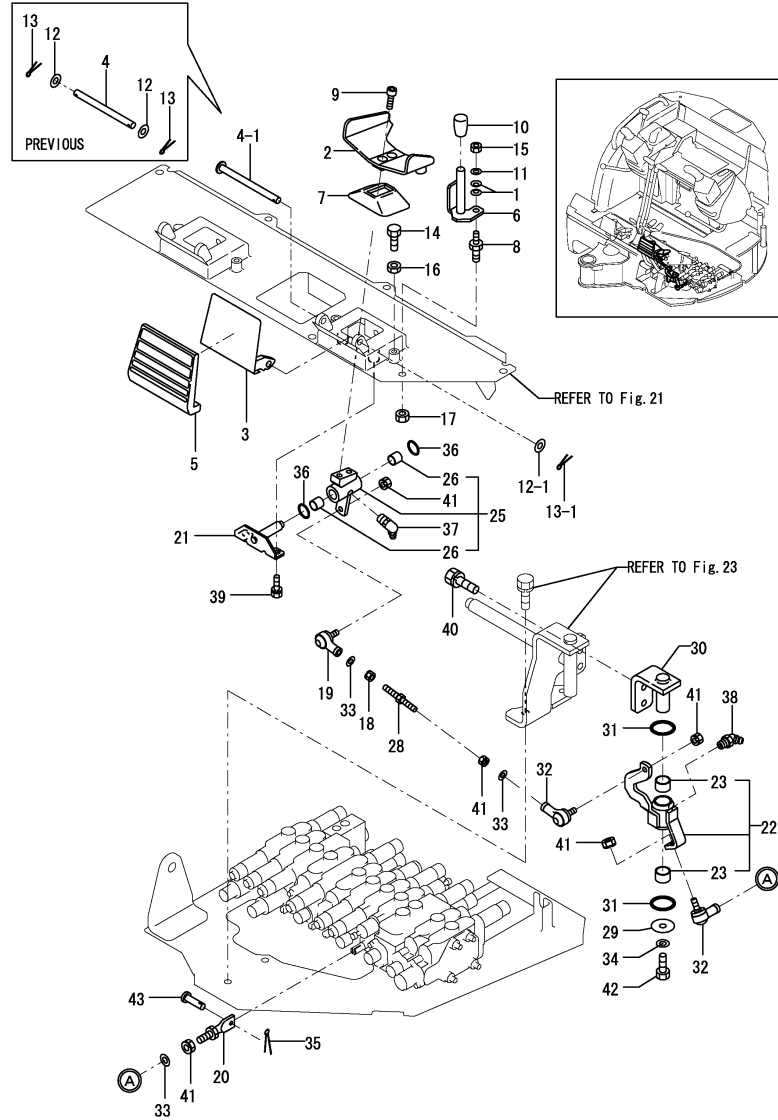
REF.NO.44A

(2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.

REF.NO.45A

(3)LABELS ARE NOT ILLUSTRATED.

Fig.27. CONTROL EQUIPMENT(P.T.O.PEDAL)



(A)=VIO20-2(US)
(B)=
(C)=

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

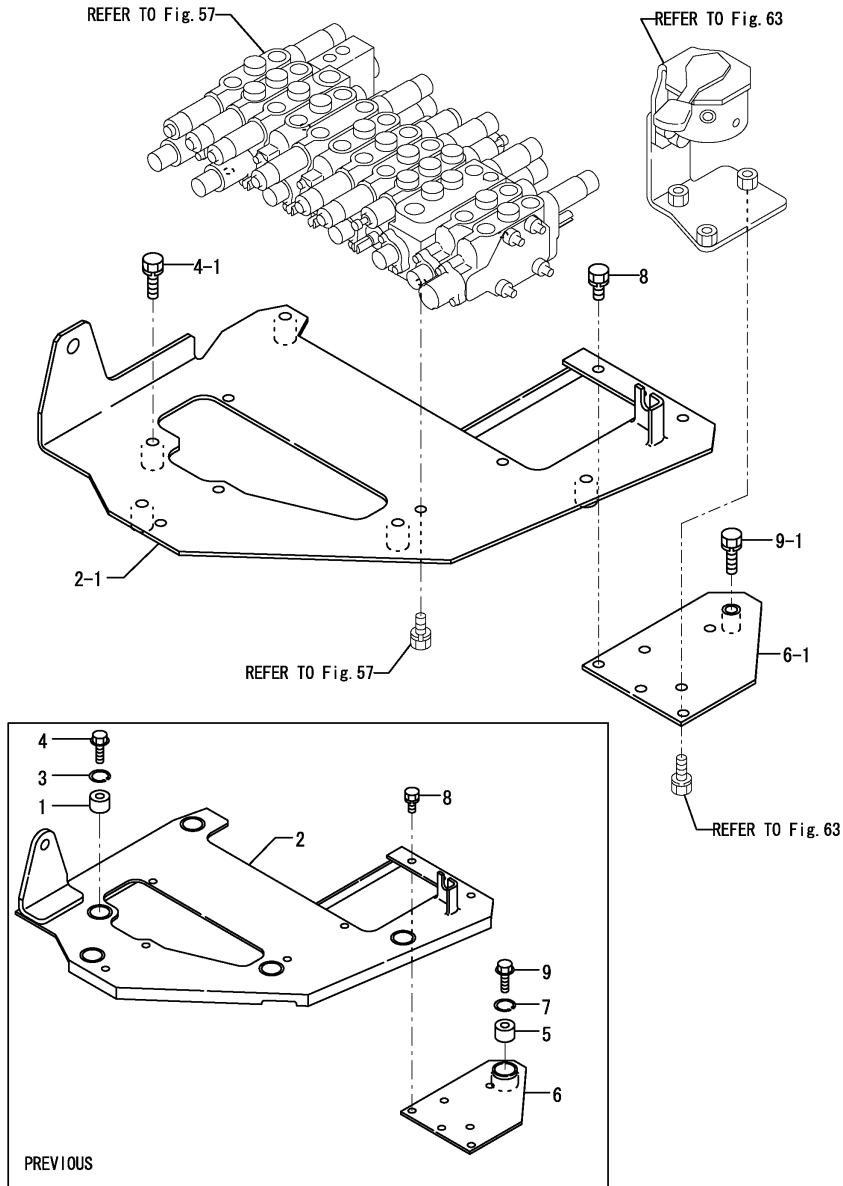
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
45A	1	172458-03240	LABEL,LOCK	1							3

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.44A
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.45A
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.28. VALVE PLATE

(A)=VIO20-2(US)
(B)=
(C)=

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

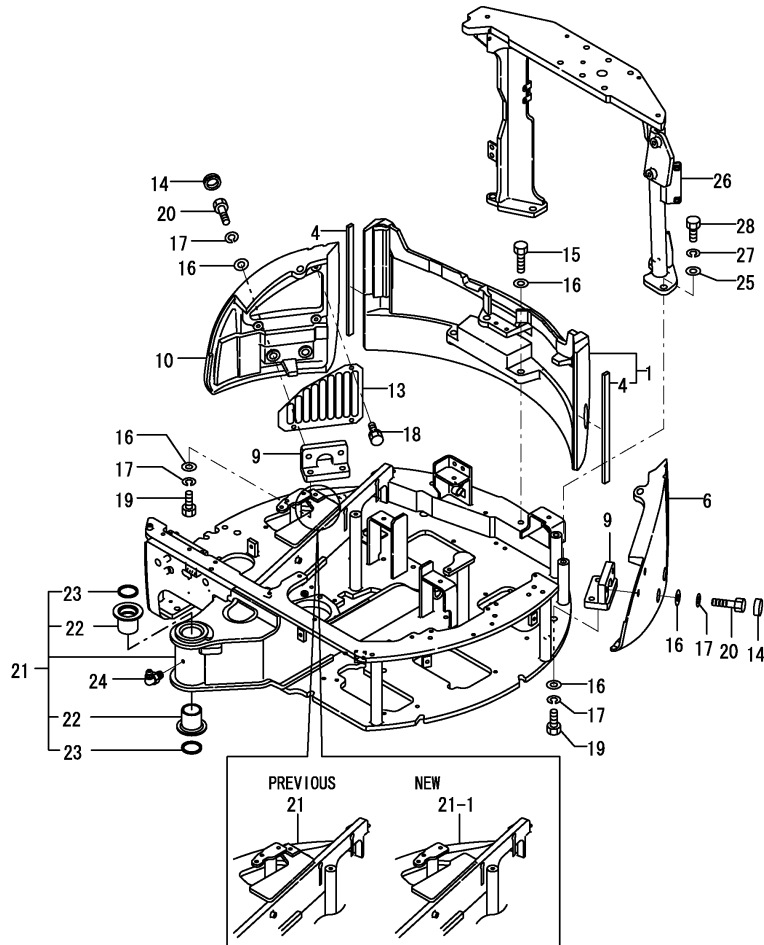


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172165-45490 (A=M/#21745)	CUSHION	5							Z
2	1	172458-45600	PLATE ASSY,VALVE	1							
2-1	1	172487-45600 (A=M/#21745)	PLATE,VALVE(GRAY:72)	1							F 1
3	1	22252-000280 (A=M/#21745)	RING, 28	5							Z
4	1	26106-100352	BOLT, M10X 35 PLATED	5							
4-1	1	26013-100402 (A=M/#21745)	BOLT, M10X 40	5							S
5	1	172165-45490 (A=M/#22501)	CUSHION	1							Z
6	1	172456-74200	BRACKET,MULTI	1							
6-1	1	172487-74200 (A=M/#22501)	BRACKET,MULTI	1							F 2
7	1	22252-000280 (A=M/#22501)	RING, 28	1							Z
8	1	26013-100202	BOLT, M10X 20	3							
9	1	26106-100352	BOLT, M10X 35 PLATED	1							
9-1	1	26013-100352 (A=M/#22501)	BOLT, M10X 35	1							S

Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF NO.4-1.
(2)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF NO.9-1.

Fig.29. TURNING FRAME

P/C NEWS No:Y00S4102-3
PUBLISHED:2007/06



(A)=VIO20-2(US)
(B)=
(C)=

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

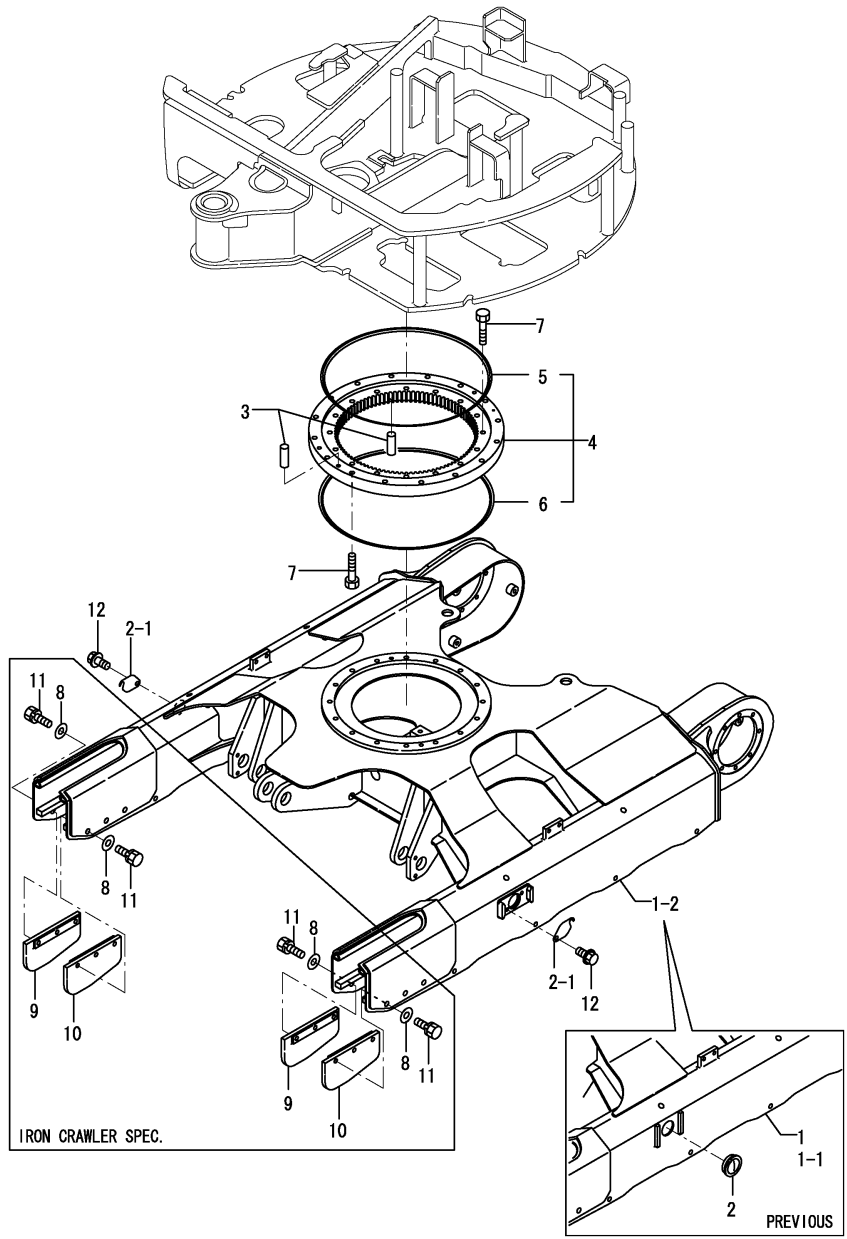
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-53300-1	WEIGHT, COUNTER	1							
4	2	172458-53370	SEAL, COUNTER	2							
6	1	172456-53320-1	WEIGHT	1							
9	1	172458-53330	BRACKET ASSY	2							
10	1	172456-53340-1	WEIGHT	1							
13	1	172456-53360-1	COVER, WEIGHT	1							Z
(A=M/#21694)											
14	1	172151-53430	GROMMET, 34	4							
14-1	1	172456-53700	GROMMET	4							N
(A=M/#22186)											
15	1	172165-53480	BOLT M16X 60	2							
16	1	172165-53500	WASHER	10							
17	1	22217-160000	WASHER, SPRING 16	8							
18	1	26013-100162	BOLT, M10X 16	3							Z
(A=M/#21694)											
19	1	26116-160452	BOLT, M16X 45 PLATED	4							
20	1	26116-160652	BOLT, M16X 65 PLATED	4							
21	1	172456-54100-1	FRAME,TURNING (86)	1							1
21-1	1	172456-54101-1	FRAME,TURNING (86)	1							S
(A=M/#21703)											
21-2	1	172456-54090-1	FRAME,TURNING (86)	1							N
(A=XXX)											
22	2	172171-54750	BUSH 50X65	2							
23	2	172165-81760	SEAL, DUST 50X60X4	2							
23-1	2	172448-54120	SEAL, DUST	2							R
(A=M/#21808)											
24	1	24761-040000	NIPPLE, GREASE B	1							
25	1	172165-53500	WASHER	4							
26	1	172456-67210	MOUNT,CANOPY(GRAY:73	1							2
27	1	22217-160000	WASHER, SPRING 16	4							
28	1	26116-160452	BOLT, M16X 45 PLATED	4							
29A	1	172157-03740	LABEL	1							3
30A	1	172437-03410	LABEL,ENG.ROOM	1							3
30A-1	1	172437-03411	LABEL (ENG ROOM US	1							R 3
(A=M/#21069)											

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.29A
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.30A
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.30. TRACK FRAME & TURNING BEARING

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-50100-1	FRAME,LOWER(GREEN:82)	1							
1-1	1	172456-50101-1	FRAME ASSY,LOWER(82)	1							R
(A=M/#21637)											
1-2	1	172456-50102-1	FRAME ASSY,LOWER(82)	1							F 1
(A=M/#22511)											
2	1	172141-50890	GROMMET	2							
2-1	1	172458-50480-1	COVER, FRAME	2							S
(A=M/#22511)											
3	1	194940-24350	PIN, 10X28	3							
4	1	172456-57600	BEARING,TURNING	1							
5	2	172183-57620	SEAL, TURNING	1							
6	2	172183-57630	SEAL, TURNING	1							
7	1	172141-57650	BOLT M12X 55 PLATED	32							
8	1	172730-05250	WASHER 12	12							
9	1	172456-50800-1	GUARD, SHOE	2							
10	1	172456-50830-1	GUARD, SHOE	2							
11	1	26013-120352	BOLT, M12X 35	12							
12	1	26107-100162	BOLT M10X 16 PLATED	4							W
(A=M/#22511)											

Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.2-1 & 12.

Fig.31. COVER(FRAME)

(A)=VIO20-2(US)

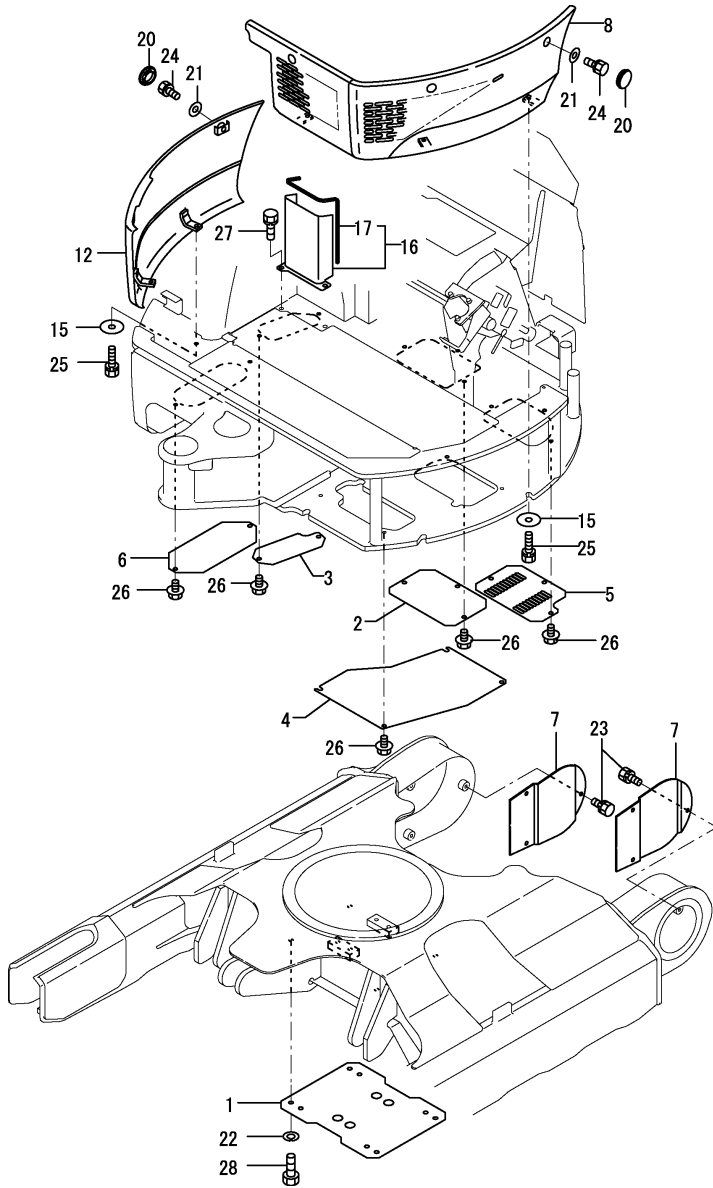
(B)=

(C)=

(D)=

(E)=

(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-50762-2	COVER	1							
1-1	1	172141-50763-4	COVER	1							N
(A=MXXXXX)											
2	1	172456-61100-1	COVER	1							
3	1	172456-61110-1	COVER	1							
4	1	172458-61110-1	COVER, VALVE	1							
5	1	172456-61130-1	PLATE A,PUMP(GREEN86	1							
6	1	172458-61150-2	COVER, FUEL	1							
7	1	172173-61190-2	COVER, TRAVEL	2							
7-1	1	172173-61191-2	COVER, TRAVEL	2							N
(A=MXXXXX)											
8	1	172456-61200-1	COVER, FRAME	1							1
12	1	172456-61260-1	COVER, FRAME	1							1
15	1	172458-61260	WASHER	5							
15-1	1	172458-61261	WASHER	5							N
(A=M/#21169)											
16	1	172472-61350	PLATE ASSY,US	1							
16-1	1	172472-61351	PLATE (US) ASSY	1							N
(A=M/#26367)											
17	2	172455-18640	TRIM	1							
20	1	172463-61600	PLUG 28X3.2	5							
21	1	22137-100000	WASHER, 10	5							
22	1	22217-120000	WASHER, SPRING 12	4							
23	1	26013-100202	BOLT, M10X 20	6							
24	1	26013-100202	BOLT, M10X 20	5							
25	1	26013-100352	BOLT, M10X 35	5							
26	1	26106-100162	BOLT, M10X 16 PLATED	14							
27	1	26106-100202	BOLT, M10X 20 PLATED	2							
28	1	26116-120252	BOLT, M12X 25 PLATED	4							
29A	1	172437-03351	LABEL,GREASE CYL.	1							2

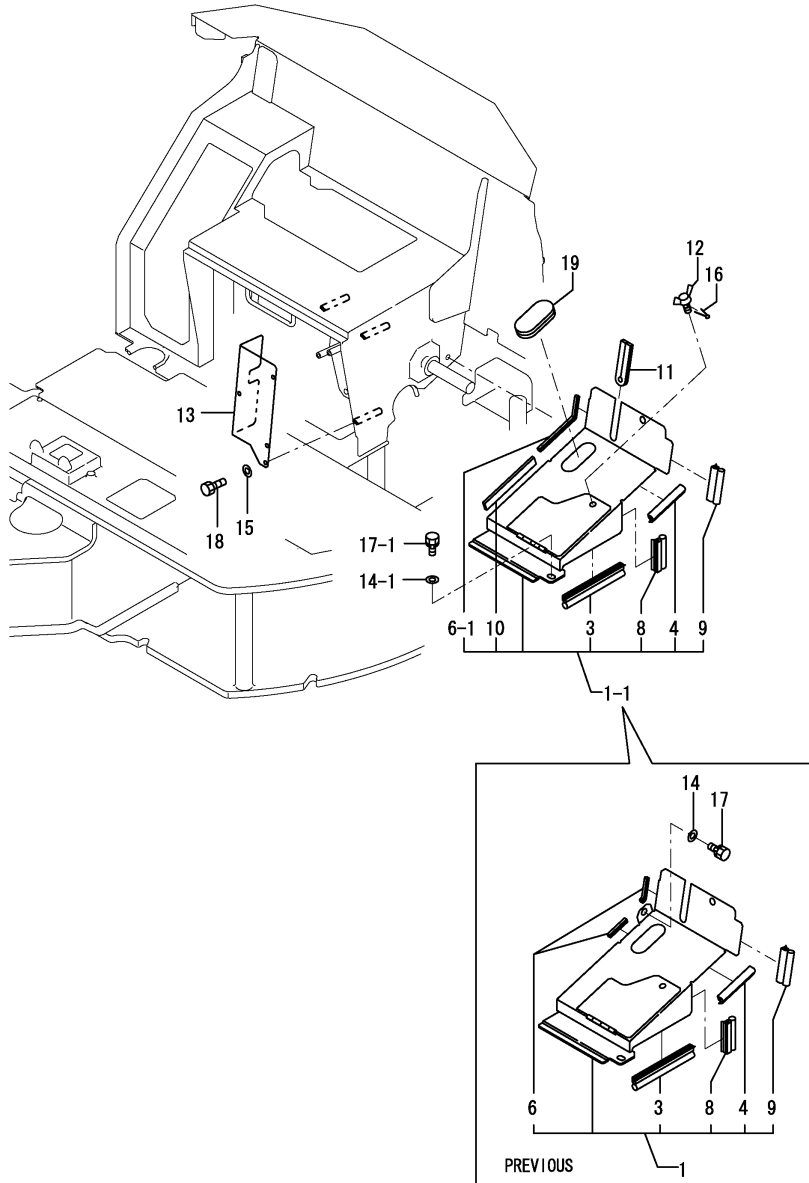
Remarks

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

REF.NO.29A

(2)LABELS ARE NOT ILLUSTRATED.

Fig.32. COVER(AROUND OPERATION)



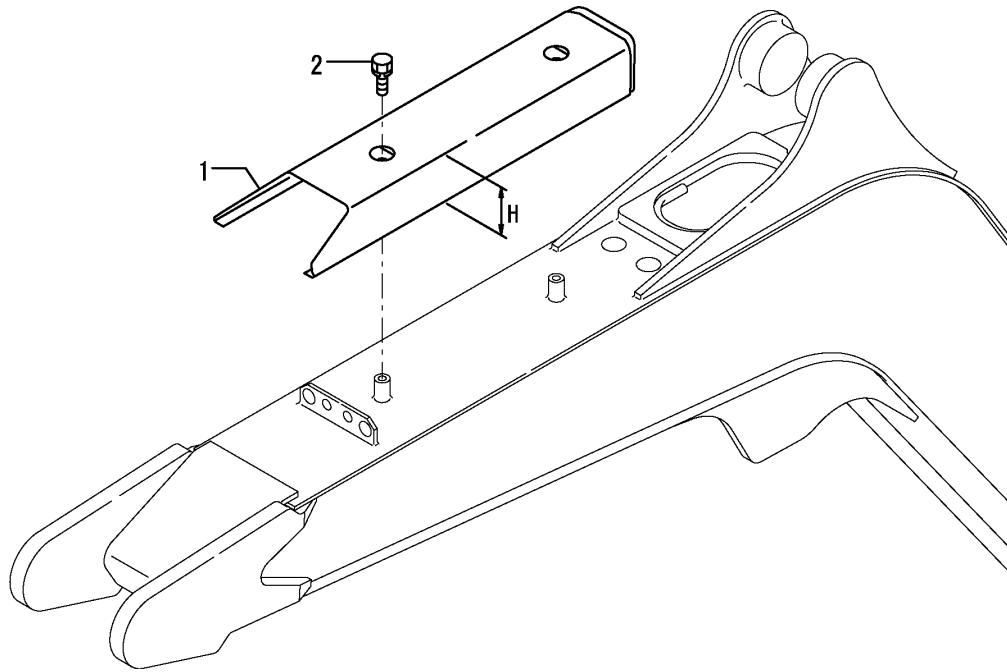
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61150	COVER ASSY, MULTI	1							1
1-1	1	172456-61151	COVER ASSY, MULTI	1							S 1
(A=M/#21920)											
1-2	1	172456-61152	COVER ASSY, MULTI	1							N
(A=MXXXXX)											
1-3	1	172456-61153-2	COVER ASSY, MULTI	1							N
(A=MXXXXX)											
3	2	172164-61250	RUBBER, SEAL	1							
4	2	172456-61340	RUBBER, SEAL 105	1							
6	2	172183-61360	TRIM	2							
6-1	2	172146-61370	RUBBER, SEAL	1							S
(A=M/#21920)											
8	2	172171-65850	RUBBER, SEAL	1							
9	2	172164-66800	RUBBER, SEAL 60	1							
10	2	172458-61540	SEAL, MULTI COVER	1							W
(A=M/#21920)											
11	1	172458-61300	GROMMET	1							
12	1	172142-62300	WING BOLT M10X15	1							
13	1	172456-64640	COVER, ELECTRIC	1							
14	1	22137-100000	WASHER, 10	3							
14-1	1	22137-100000	WASHER, 10	2							K
(A=M/#21920)											
15	1	22217-060000	WASHER, SPRING 6	3							
16	1	22417-320200	PIN, COTTER 3.2X20	1							
17	1	26013-100202	BOLT, M10X 20	4							
17-1	1	26013-100202	BOLT, M10X 20	2							K
(A=M/#21920)											
18	1	26116-060122	BOLT, M6X 12 PLATED	3							
19	1	172146-41320	GROMMET	1							
20A	1	172437-03241	LABEL,CRAWLER	1							2

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.20A
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.33. COVER(BOOM)



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61962-1	COVER, BOOM	1							
1-1	1	172456-61963-1	COVER, BOOM	1						S	1
			(A=M/#22501)								
2	1	26013-080162	BOLT, M8X 16	2							

Remarks

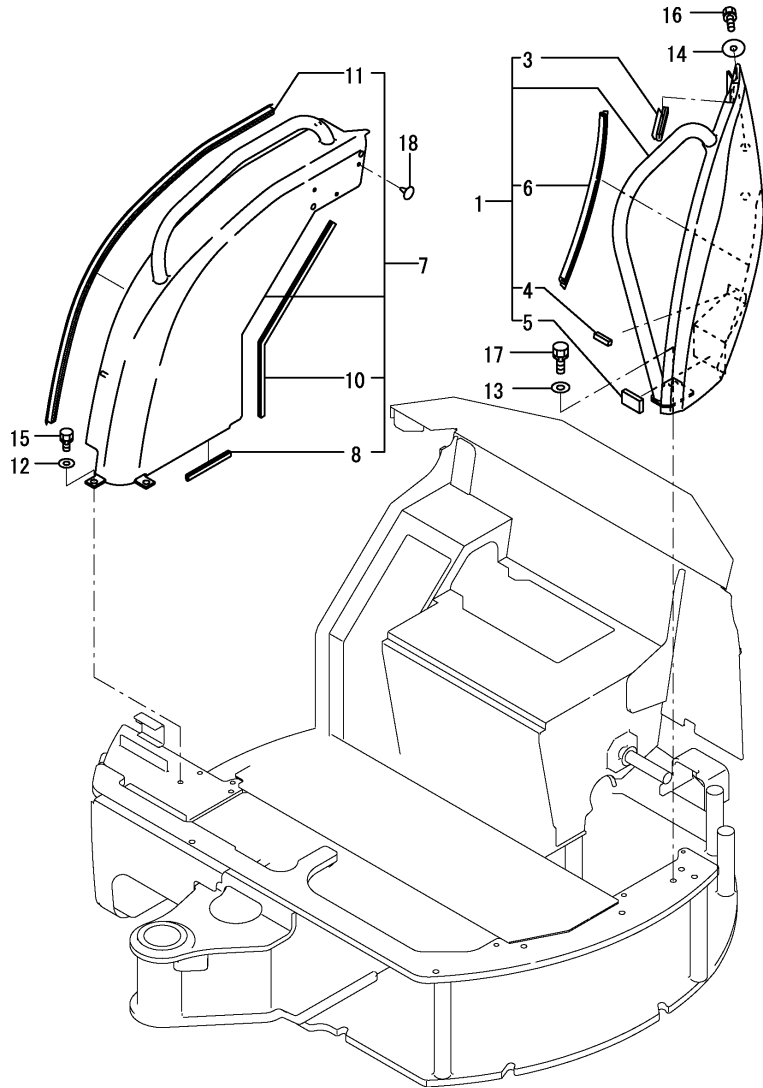
(1)H=REF.NO.1:32MM,NO.1-1:28MM.

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

Fig.34. COVER(CANOPY)

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61400-1	BONNET L (YELLOW:87)	1							1
3	2	172456-61480	RUBBER, SEAL 95	1							
4	2	172456-61490	SEAL	1							
5	2	172456-61500	SEAL	1							
6	2	172183-65560	RUBBER, SEAL 390	1							
7	1	172456-61690	COVER ASSY	1							2
7-1	1	172456-61691	COVER ASSY	1							N
(A=*2004.04)											
8	2	172156-11150	SEAL, ENGINE	1							
10	2	172458-64140	SEAL	1							
11	2	172165-65460	RUBBER, SEAL	1							
12	1	22137-100000	WASHER, 10	5							
12-1	1	22137-100000	WASHER, 10	4							K
(A=M/#21858)											
13	1	22137-120000	WASHER, 12	1							
14	1	22157-100000	WASHER, 10	2							
15	1	26013-100202	BOLT, M10X 20	5							
15-1	1	26013-100202	BOLT, M10X 20	4							K
(A=M/#21858)											
16	1	26013-100252	BOLT, M10X 25	2							
17	1	26013-120302	BOLT, M12X 30	1							
18	1	172458-64610	CLIP, TREE	3							
19A	1	172469-03120	LABEL, VIO20	2							3
19B	1	172472-03240	LABEL, PIN US	1							3
19C	1	172472-03250	LABEL, OPERATION Q US	1							3

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.
STANDARD SPEC:UNNECESSARY

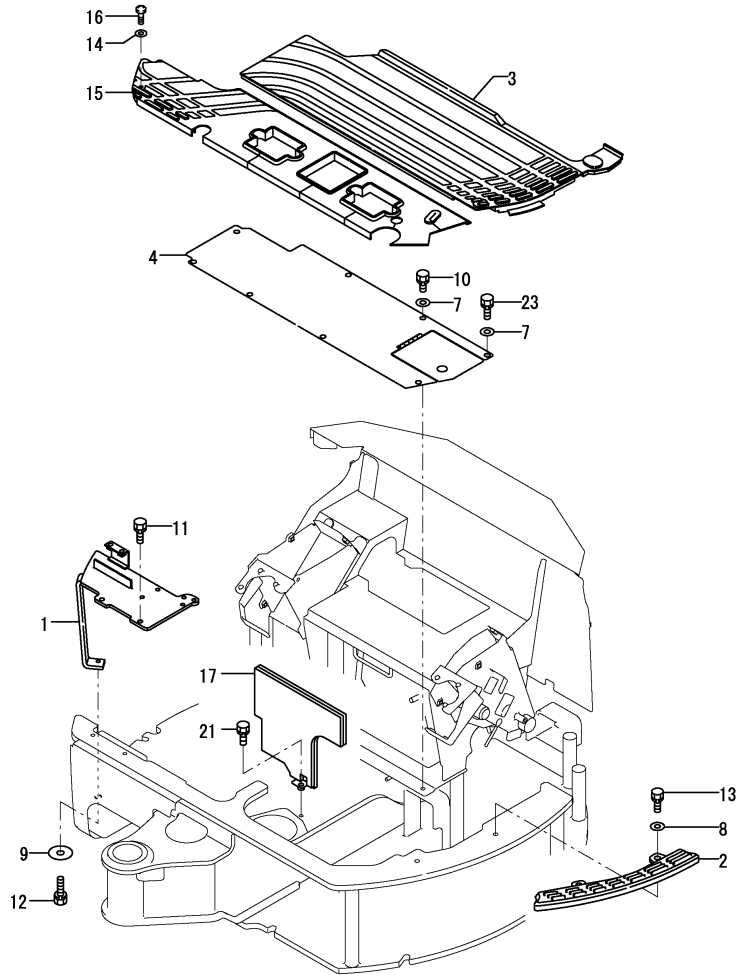
QUICK COUPLER SPEC:REF.NO.19B,19C

(3)LABELS ARE NOT ILLUSTRATED.

Fig.35. STEP

(A)=VIO20-2(US)
(B)=
(C)=

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

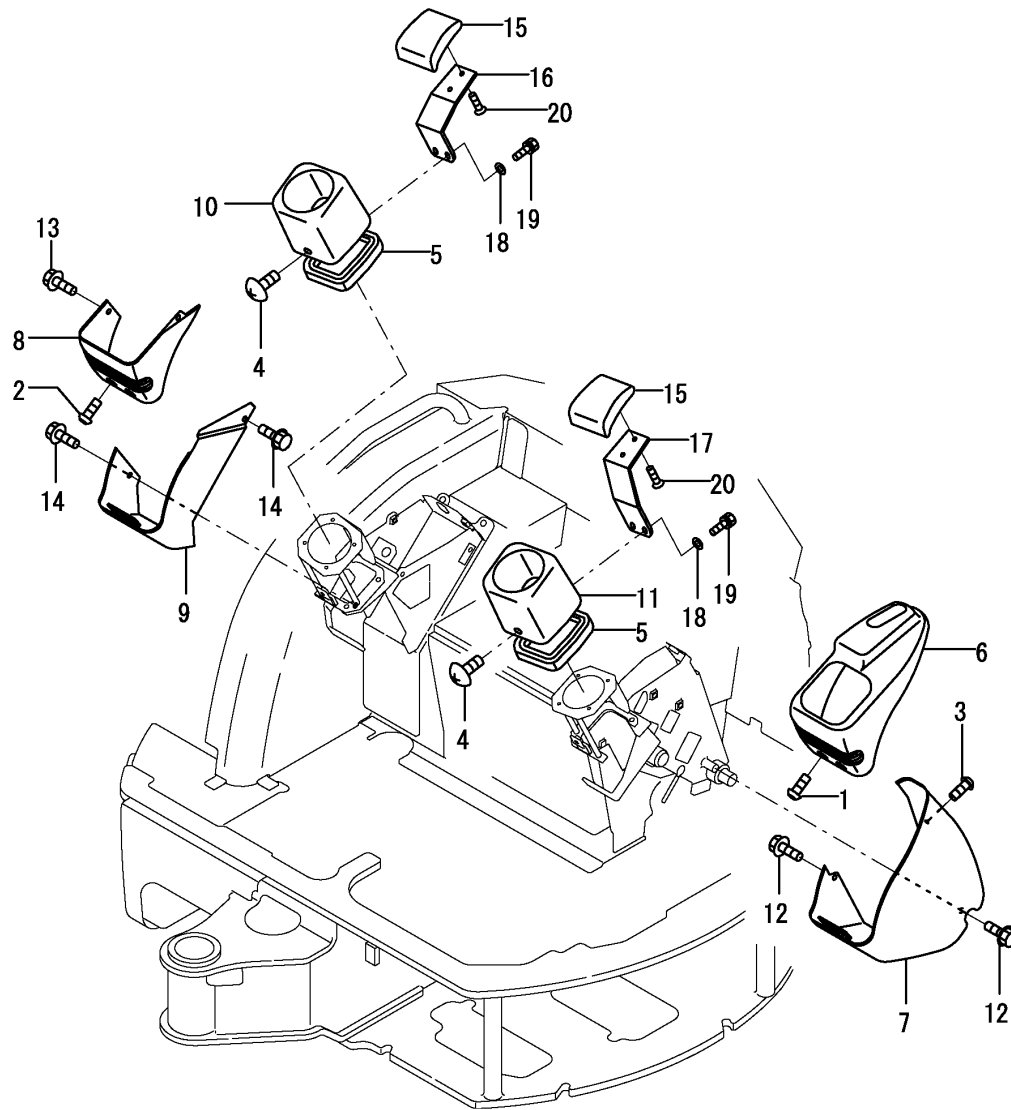


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-62100-1	STEP	1							
2	1	172458-62110	STEP	1							
3	1	172456-62200	MAT A	1							
4	1	172469-62210	STEP	1							1
7	1	22137-100000	WASHER, 10	8							
8	1	22137-120000	WASHER, 12	2							
9	1	22157-100000	WASHER, 10	1							
10	1	26013-100202	BOLT, M10X 20	8							
10-1	1	26013-100202	BOLT, M10X 20	6							K
(A=*2014.01)											
11	1	26013-100252	BOLT, M10X 25	2							
12	1	26013-100352	BOLT, M10X 35	1							
13	1	26013-120302	BOLT, M12X 30	2							
14	1	172458-62430	WASHER	1							
15	1	172469-62500	FLOOR MAT B (CANOPY	1							
16	1	172137-69850	SCREW	1							
17	1	172456-62800	PLATE	1							Z
(A=M/#21745)											
21	1	26013-100252	BOLT, M10X 25	1							Z
(A=M/#21745)											
22A	1	172438-03300	LABEL, PTO SELECT	1							2
23	1	26013-100252	BOLT, M10X 25	2							W
(A=*2014.01)											

Remarks

- (1)Please use this part with follwing labels at the same time. No.22A .
- (2)Not illustrated.

Fig.36. INSTRUMENT PANEL & ARM REST



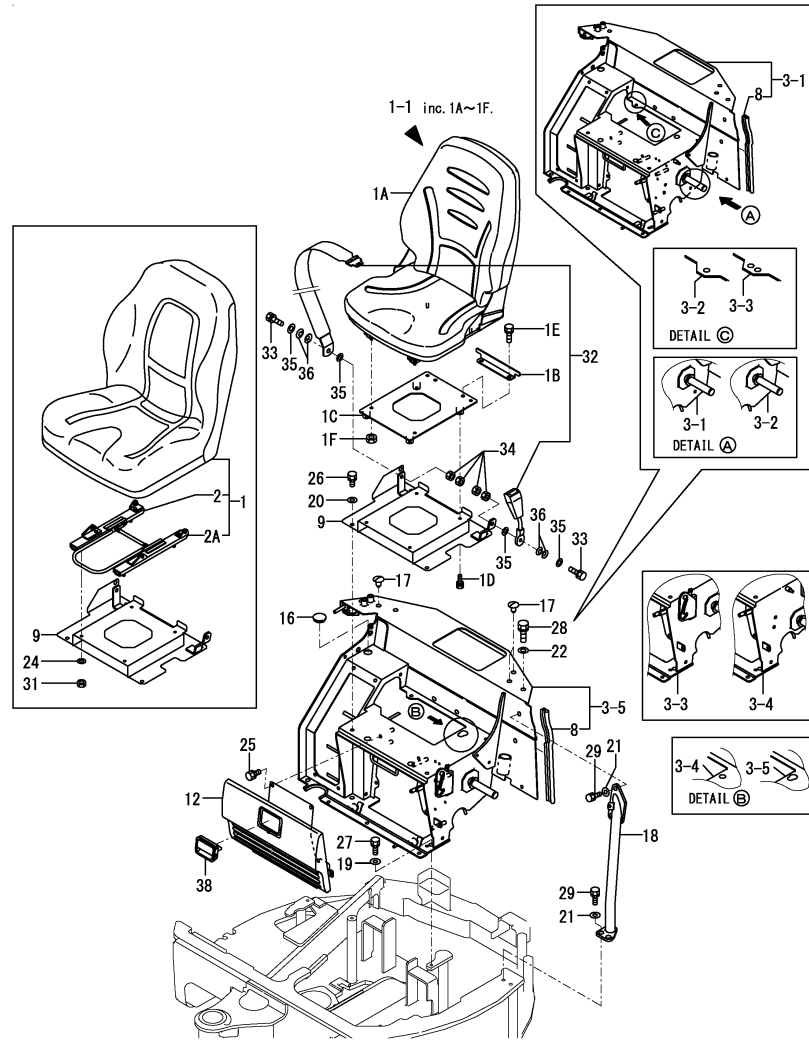
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-46720	BOLT 8X20	3							
2	1	172458-46720	BOLT 8X20	2							
3	1	172458-46720	BOLT 8X20	1							
4	1	172458-46720	BOLT 8X20	2							
5	1	172162-62540	SEAL, STEP	2							
6	1	172458-63100	INSTRUMENT PANEL L	1							1
7	1	172458-63120	INSTRUMENT PANEL L	1							
8	1	172458-63130	INSTRUMENT PANEL R	1							
9	1	172458-63140	INSTRUMENT PANEL R	1							
10	1	172472-63210	COVER	1							
11	1	172472-63220	COVER	1							
12	1	172519-63240	BOLT	2							
13	1	172519-63240	BOLT	1							
14	1	172519-63240	BOLT	2							
15	1	172441-44320	ARMREST	2							
16	1	172472-64530	PLATE,ARM REST R(73)	1							
16-1	1	172472-64531	PLATE R,ARM REST(73)	1							N
(A=M/#21218)											
17	1	172472-64540	PLATE,ARM REST L(73)	1							
17-1	1	172472-64541	PLATE L,ARM REST(73)	1							N
(A=M/#21218)											
18	1	22137-080000	WASHER, 8	4							Z
(A=M/#20904)											
19	1	26013-080202	BOLT, M8X 20	4							
19-1	1	172165-66980	BOLT	4							R
(A=M/#20904)											
20	1	26577-080122	SCREW, M8X12	4							
21A	1	172458-03220	LABEL,ACCELERATOR	1							2

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.21A
 (2)LABELS ARE NOT ILLUSTRATED.

Fig.37. SEAT & SEAT MOUNT



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172455-64200	SHEET	1							4
1-1	1	172456-08600	SEAT KIT	1							N
(A=*2007.01)											
1-2	1	172456-08600	SEAT KIT	1							Z 4
(A=*2017.11.)											
1A	2	172A46-64200	SEAT, OPERATOR	1							W
(A=*2007.01)											
1B	2	172A46-64520	STOPPER ASSY	1							W
(A=*2007.01)											
1C	2	172A46-64500	PLATE ASSY,SEAT	1							W
(A=*2007.01)											
1D	2	26013-080202	BOLT, SPRING M8X 20	4							W
(A=*2007.01)											
1E	2	26013-100202	BOLT, SPRING M10X 20	2							W
(A=*2007.01)											
1F	2	26051-080002	NUT, M8	4							W
(A=*2007.01)											
2	2	172455-64600	TRACK ASSY, SEAT	1							W
(A=M/#25969)											
2-1	2	172455-64600	TRACK ASSY, SEAT	1							Z
(A=*2007.01)											
2A	2	172455-64610	TRACK ASSY, SEAT	1							W
(A=M/#25969)											
2A-1	2	172455-64610	TRACK ASSY, SEAT	1							Z
(A=*2007.01)											
3-1	1	772469-64210	MOUNT, SEAT	1							1
3-2	1	772469-64211	MOUNT, SEAT	1							S 1
(A=M/#21920)											
3-3	1	772469-64212	MOUNT, SEAT	1							N 1
(A=M/#22514)											
3-4	1	772469-64213	MOUNT, SEAT	1							S 1
(A=M/#22514)											
3-5	1	772469-64214	MOUNT, SEAT	1							S 1
(A=M/#25770)											
8	2	172164-66480	RUBBER 340, SEAL	1							
9	1	172469-64290	PLATE, SEAT	1							
12	1	172456-64440	GRILLE	1							2
16	1	172458-64590	PLUG	1							
17	1	172458-64600	CLIP, TREE	1							
17-1	1	172458-64600	CLIP, TREE	3							K
(A=M/#21218)											
18	1	172469-64700	PIPE	1							
19	1	22137-100000	WASHER, 10	3							
20	1	22137-100000	WASHER, 10	5							
21	1	22137-120000	WASHER, 12	4							
22	1	22137-120000	WASHER, 12	2							
24	1	22217-080000	WASHER, SPRING 8	4							Z
(A=I)											
25	1	26013-100202	BOLT, SPRING M10X 20	4							
26	1	26013-100202	BOLT, SPRING M10X 20	5							
27	1	26013-100252	BOLT, SPRING M10X 25	3							

Remarks

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

REF.NO.37E,37F,37G,37H

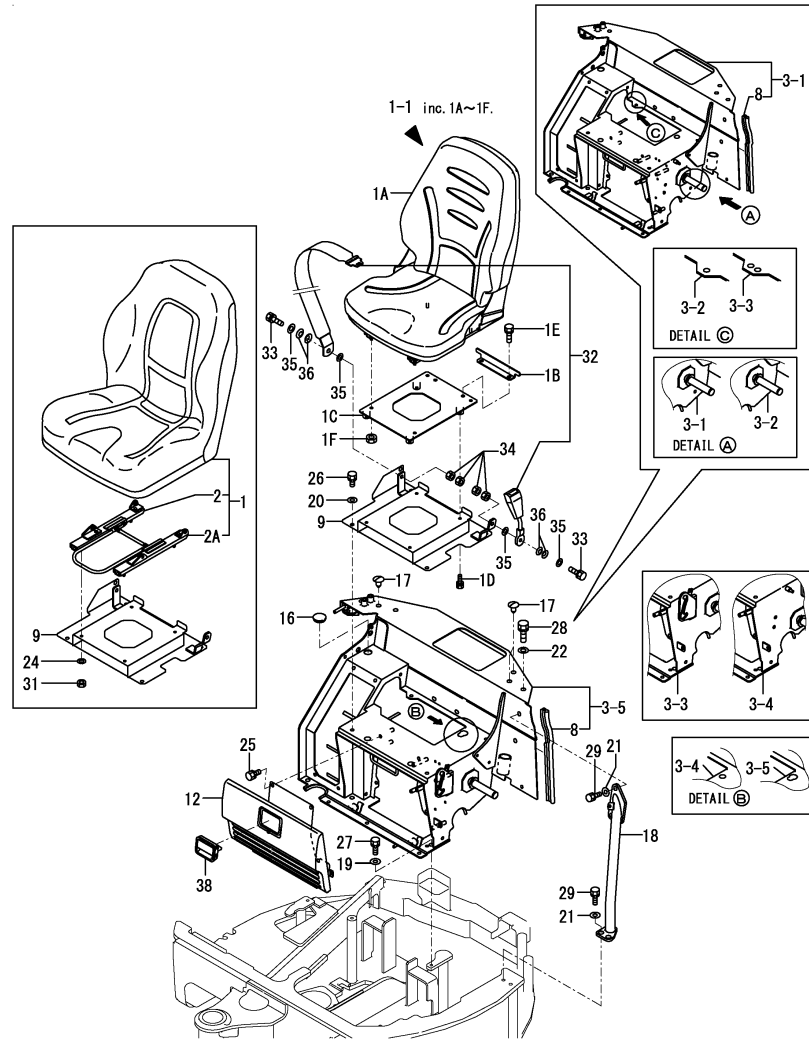
(2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.

REF.NO.37A,37B,37C,37D

(3)LABELS ARE NOT ILLUSTRATED.

(4)Spare parts is shown in Fig.86 No.1.

Fig.37. SEAT & SEAT MOUNT



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
28	1	26013-120252	BOLT, SPRING M12X 25	2							
29	1	26013-120302	BOLT, SPRING M12X 30	4							
31	1	26716-080002	NUT, M8	4							Z
(A=*2007.01)											
32	1	172989-64450	SEAT BELT	1							
32-1	1	172989-64451	BELT, SEAT	1							N
(A=M/#21426)											
33	1	172433-64510	BOLT 7/16-20-UNF	2							
33-1	1	172433-64511	BOLT	2							N
(A=*2004.04)											
34	1	172187-64830	NUT	4							
34-1	1	172187-64831	NUT	4							N
(A=M/#21694)											
35	1	22137-120000	WASHER, 12	6							
35-1	1	22137-120000	WASHER, 12	4							K
(A=*2004.04)											
36	1	933170-01490	SPRING	4							
36-1	1	172652-64220	SPRING	4							N
(A=*2004.04)											
37A	1	172469-03140	LABEL,OIL&WATER	1							3
37B	1	172472-03160	LABEL,GREASE	1							3
37C	1	172469-03110	LABEL,SPECIFICATION	1							3
37C-1	1	172469-03111	LABEL,SPECIFICATION	1							N 3
(A=M/#21808)											
37D	1	172472-03140	LABEL,SUPORT US	1							3
37E	1	172472-03170	LABEL,FUSE	1							3
37E-1	1	172472-03171	LABEL,FUSE US	1							R 3
(A=M/#26069)											
37F	1	172437-03530	LABEL,RE-START	1							3
37G	1	172437-03300	LABEL,MANUAL	1							3
37H	1	172437-03470	LABEL,LEVER LOCK	1							3
38	1	172187-61421	HANDLE, LOCK	1							

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.37E,37F,37G,37H
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.37A,37B,37C,37D
 (3)LABELS ARE NOT ILLUSTRATED.
 (4)Spare parts is shown in Fig.86 No.1.

Fig.38. BONNET(1)

(A)=VIO20-2(US)

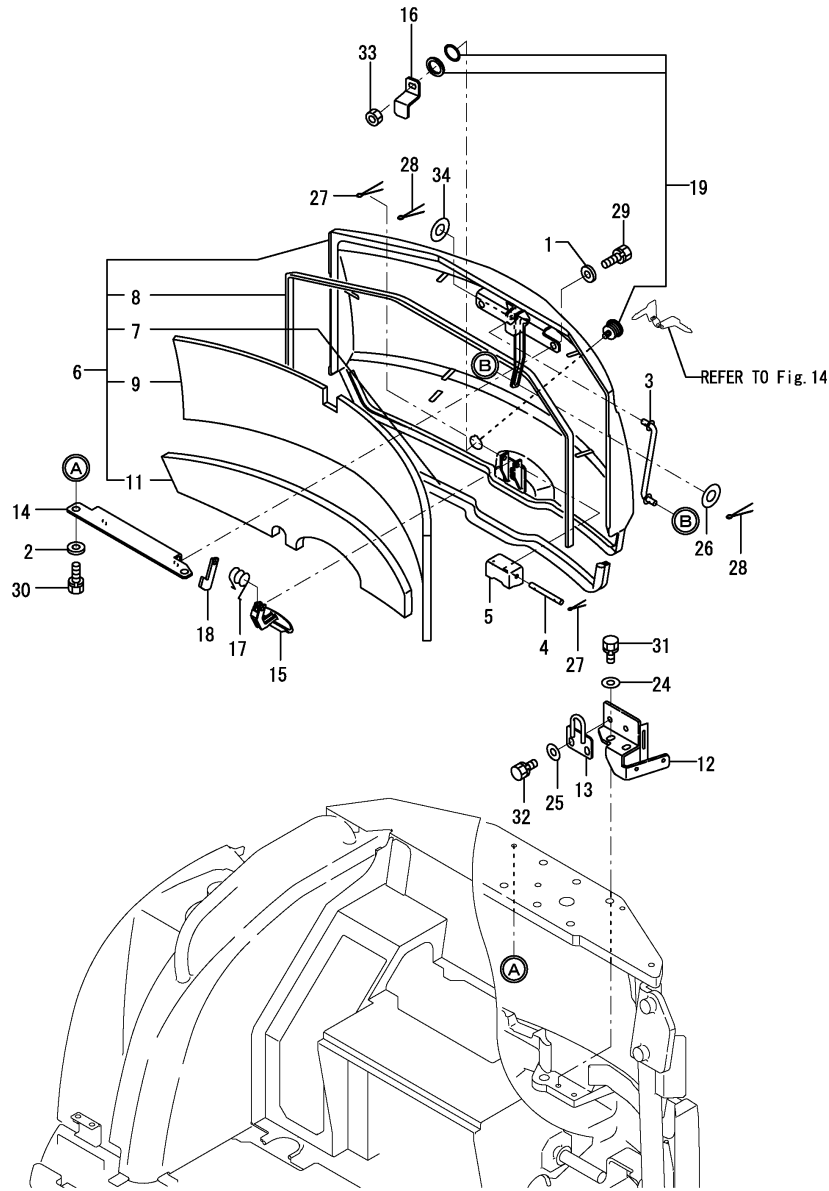
(B)=

(C)=

(D)=

(E)=

(F)=



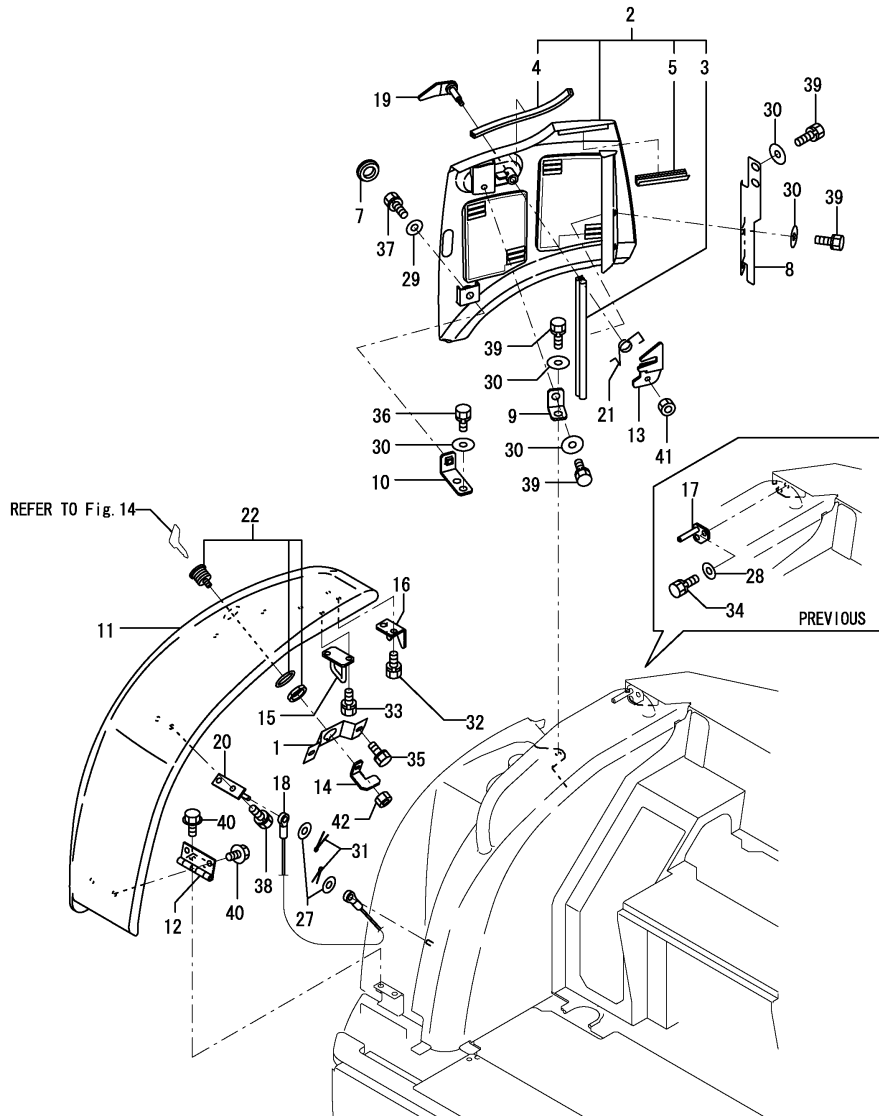
No.	Lev.	Parts No.	Description	(A)	(B)	Qty						I	R	
				(C)	(D)	(E)	(F)							
1	1	194145-04810	WASHER 10	2										
2	1	194145-04810	WASHER 10	2										
3	1	172444-64730	ROD,STOPPER	1										
4	1	172458-65050	SHAFT	1										
5	1	172458-65060	COVER, LOCK	1										
6	1	172457-65100-1	BONNET A (YELLOW:87)	1										1
7	2	172458-65070	SEAL	1										
8	2	172458-65080	RUBBER, SEAL	1										
9	2	172457-65110	SEAL	1										
11	2	172457-65120	SEAL	1										
12	1	172456-65150	BRACKET A,LOCK (73)	1										
13	1	172456-65170	BRACKET B,LOCK	1										
13-1	1	172456-65171	BRACKET B, LOCK	1										N
(A=M/#21597)														
14	1	172456-65190	BRACKET C	1										
14-1	1	172456-65191	BRACKET C ASSY	1										R
(A=M/#26319)														
15	1	172187-65210	LEVER ASSY, LOCK	1										
16	1	172458-65271	PLATE,ROCK	1										
17	1	172734-65270	SPRING, CATCH	1										
18	1	172124-65480	CATCHER	1										
19	1	172164-66170	KEY ASSY, CYLINDER	1										
24	1	22137-100000	WASHER, 10	2										
25	1	22137-100000	WASHER, 10	2										
26	1	22157-080000	WASHER, 8	2										
26-1	1	1A1380-62160	WASHER	1										K
(A=M/#21118)														
27	1	22417-200200	PIN, COTTER 2.0X20	2										
28	1	22417-200200	PIN, COTTER 2.0X20	2										
29	1	26013-100252	BOLT, M10X 25	2										
30	1	26013-100252	BOLT, M10X 25	2										
31	1	26013-100252	BOLT, M10X 25	2										
32	1	26013-100252	BOLT, M10X 25	2										
33	1	26347-100002	NUT, M10	1										
34	1	22157-080000	WASHER, 8	1										
34-1	1	22137-080000	WASHER, 8	1										N
(A=M/#21597)														
35A	1	172458-03160	LABEL, REAR	1										2
35B	1	172437-03380	LABEL,SWING AREA	1										2
35C	1	172437-03400	LABEL,ENG.HOOD	1										2
35C-1	1	172437-03401	LABEL (ENG COVER US	1										R 2
(A=M/#21069)														
35D	1	172437-03421	LABEL,MUFFLER	1										2

Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.35A,35B,35C & 35D.

(2)LABELS ARE NOT ILLUSTRATED.

Fig.39. BONNET(2)



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172455-65230	PLATE,KEY (GILT	1							
2	1	172456-65300-1	BONNET R (YELLOW:87)	1							1
2-1	1	172456-65301-1	BONNET R (YELLOW:87)	1							N
(A=M/#21694)											
2-2	1	172456-65302-1	BONNET R (YELLOW:87)	1							N
(A=M/#25600)											
3	2	172444-54920	SEAL, WEIGHT	1							
3-1	2	172456-65890	SEAL, 20X20	1							N
(A=M/#25600)											
4	2	172434-61190	TRIM	1							
5	2	172458-61500	RUBBER, SEAL	1							
7	1	172463-65410	PLUG 28X2.3	1							
8	1	172456-65440	BRACKET A,BONNET R	1							
8-1	1	172456-65441	BRACKET A	1							N
(A=M/#25600)											
9	1	172456-65450	BRACKET B,BONNET R	1							
10	1	172456-65460	BRACKET C	1							
10-1	1	172456-65461	BRACKET C	1							N
(A=M/#21694)											
11	1	172469-65500	BONNET B (YELLOW:87)	1							2
12	1	172456-65510	HINGE, BONNET	1							
12-1	1	172456-65511-1	HINGE, BONNET	1							N
(A=M/#21694)											
12-2	1	172456-65511-3	HINGE, BONNET	1							N
(A=M/#XXXXX)											
13	1	172456-65520	PLATE,HOOK	1							
14	1	172458-65530	PLATE,LOCK	1							
15	1	172458-65540	PLATE ASSY,STOPPER	1							
16	1	172458-65560	PLATE,GUIDE	1							
17	1	172458-65580	BRACKET ASSY,GUIDE	1							
18	1	172458-65600	CABLE	1							
19	1	172458-65610	HOOK ASSY	1							
20	1	172458-65640	STAY ASSY, WIRE	1							
21	1	172156-65690	SPRING, STOPPER	1							
22	1	172164-66170	KEY ASSY, CYLINDER	1							
27	1	22137-080000	WASHER, 8	2							
28	1	22137-100000	WASHER, 10	2							
29	1	22137-100000	WASHER, 10	1							
30	1	22157-100000	WASHER, 10	8							
30-1	1	22157-100000	WASHER, 10	7							K
(A=M/#21694)											
31	1	22417-200200	PIN, COTTER 2.0X20	2							
32	1	26013-100202	BOLT, M10X 20	2							
33	1	26013-100202	BOLT, M10X 20	2							
34	1	26013-100202	BOLT, M10X 20	2							
35	1	26013-100202	BOLT, M10X 20	2							
36	1	26013-100202	BOLT, M10X 20	2							
36-1	1	26013-100202	BOLT, M10X 20	1							K
(A=M/#21694)											
37	1	26013-100252	BOLT, M10X 25	1							
38	1	26013-100252	BOLT, M10X 25	2							

Remarks

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

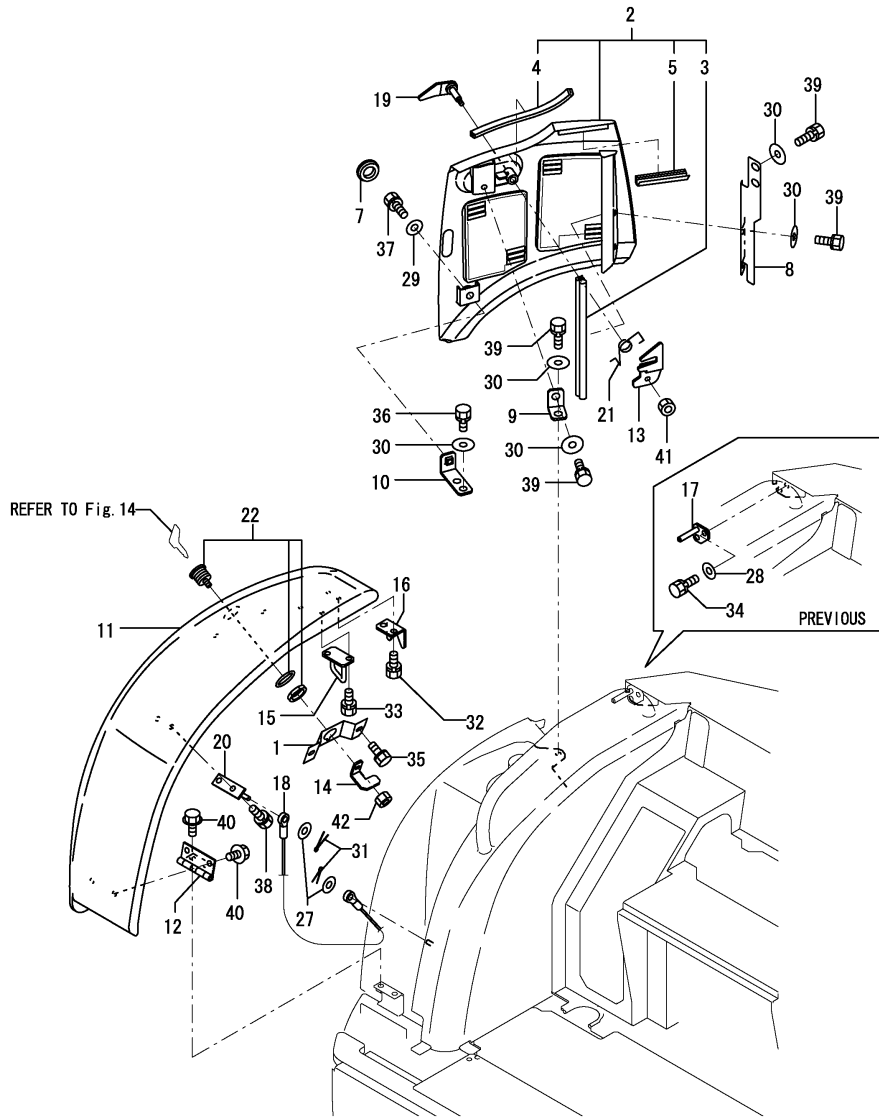
REF.NO.43A

(2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.

REF.NO.44A & 44B.

(3)LABELS ARE NOT ILLUSTRATED.

OCS10-M41002 BONNET
 Fig.39. BONNET(2)



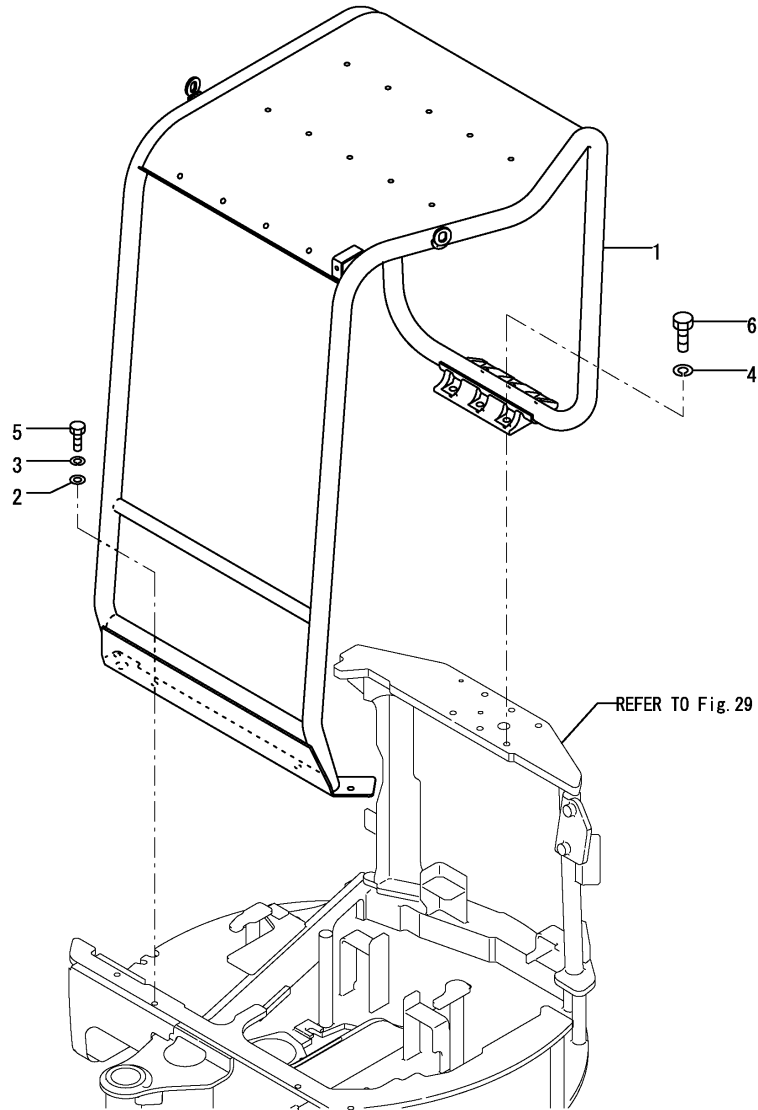
(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
39	1	26013-100252	BOLT, M10X 25	6							
40	1	26106-100162	BOLT, M10X 16 PLATED	4							
41	1	26347-080002	NUT, M8	1							
42	1	26347-100002	NUT, M10	1							
43A	1	172463-03330	LABEL,COVER	1							3
44A	1	172437-03500	LABEL,FUEL	1							3
44B	1	172437-03360	LABEL,BATTERY	1							3

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.43A
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.44A & 44B.
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.41. CANOPY



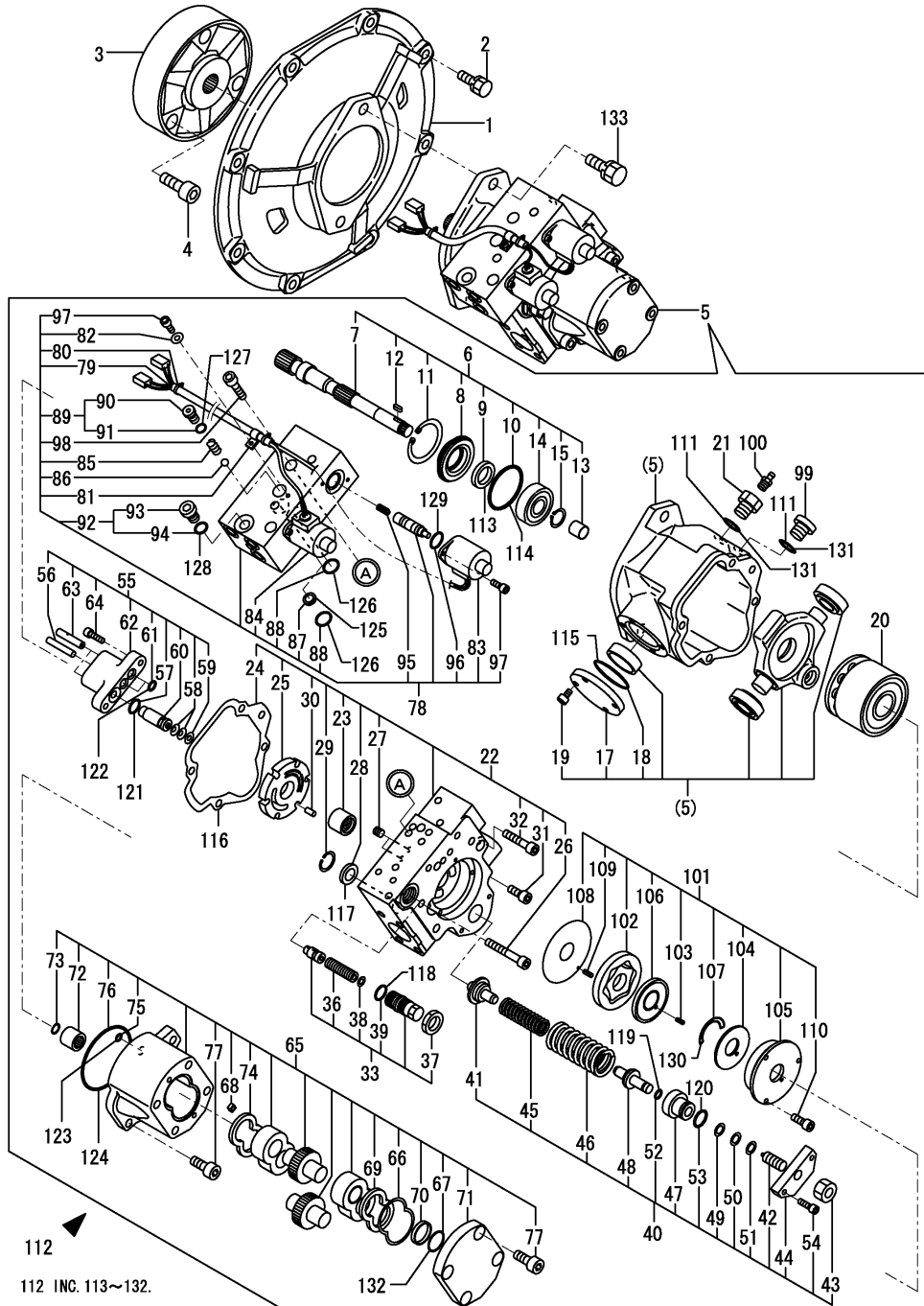
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-66300	CANOPY ASSY, ROPS	1							1
2	1	172149-66550	WASHER	4							
3	1	22217-120000	WASHER, SPRING 12	4							
4	1	22217-160000	WASHER, SPRING 16	6							
5	1	26076-120402	BOLT, 10.912X 40	4							
6	1	26076-160402	BOLT, 10.916X 40	6							
7A	1	172469-03130	LABEL,LIFT US	1							2
7A-1	1	172469-03131 (A=*2004.04)	LABEL, LIFT US	1							N 2
7B	1	172147-03210 (A=M/#25064)	LABEL,2 SPEED	1							Z 2
7C	1	172149-03430	LABEL	1							2
7C-1	1	172490-03200 (A=M/#25064)	LABEL	1							N 2
7D	1	172437-03310	LABEL,SLOPE	1							2
7E	1	172437-03340	LABEL,TRANSPORT	1							2
7E-1	1	172437-03341 (A=M/#21069)	LABEL,TRANSPORT	1							R 2
7F	1	172437-03371	LABEL	1							2
7G	1	172437-03440	LABEL,ROPS	1							2
7H	1	172437-03450	LABEL,SEAT BELT	1							2
7I	1	172437-03600	LABEL	1							2
7J	1	172469-03150	LABEL,LIFT Q US	1							2
7J-1	1	172469-03151 (A=M/#23637)	LABEL, LIFT Q US	1							N 2
7J-2	1	172469-03152 (A=*2004.04)	LABEL,LIFT Q US	1							N 2

Remarks
(2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
STANDARD SPEC:
REF.NO.7A,7B,7C,7D,7E,7F,7G,7H &7I
QUICK COUPLER SPEC:
REF.NO.7B,7C,7D,7E,7F,7G,7H,7I &7J
(2)LABELS ARE NOT ILLUSTRATED.

Fig.42. HYD.OIL PUMP & JOINT(STANDARD SPEC.)



112

112 INC. 113~132.

(A)=VIO20-2(US)

(B)=

(C)=

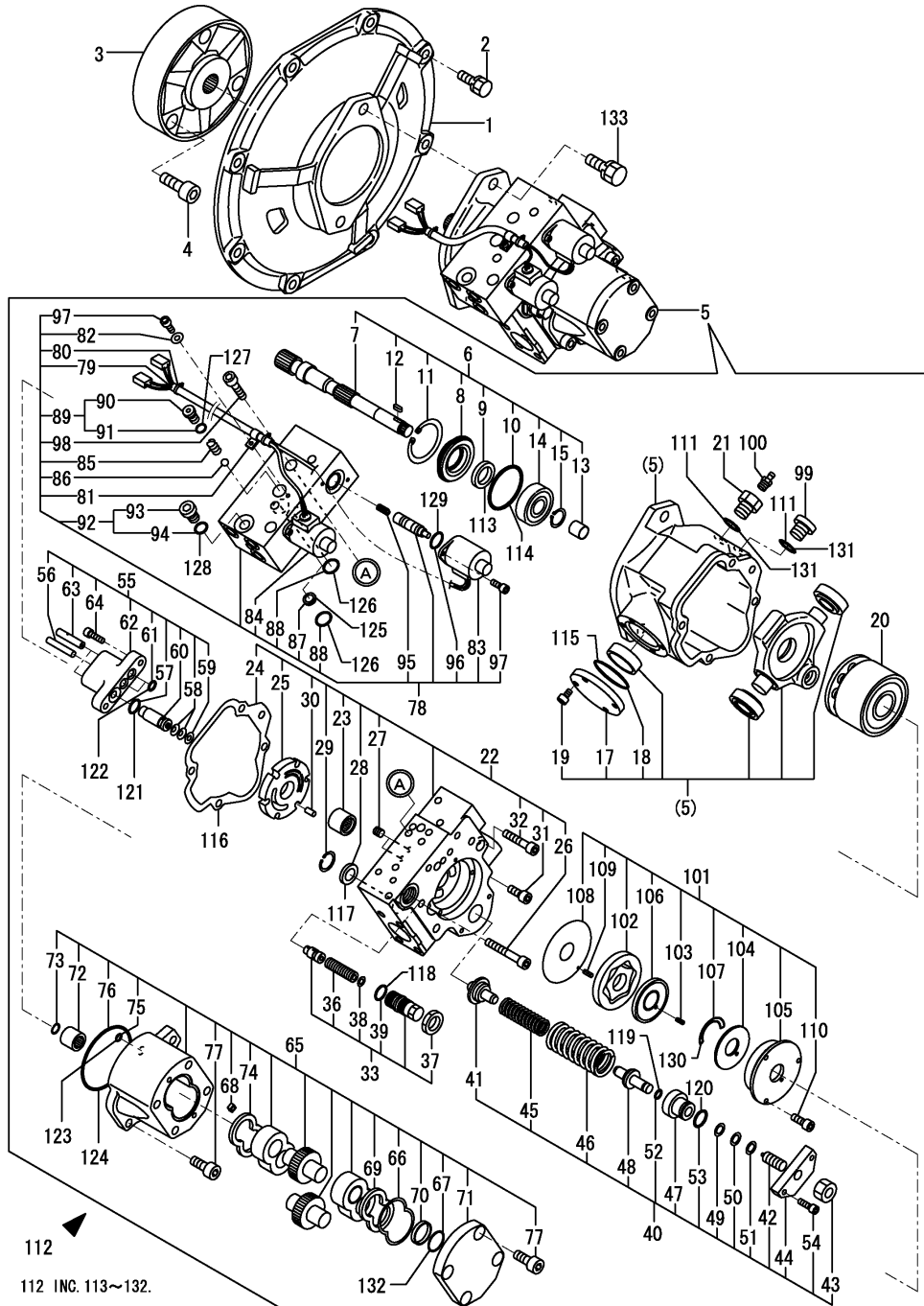
(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-3	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	172456-73100	PUMP ASSY	1							
6	2	172456-73110	SHAFT ASSY	1							
7	3	172456-73120	SHAFT	1							
8	3	172456-73130	SEAL, CASE	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	RING, 20	1							
17	3	172179-73250	COVER	1							
18	3	24321-000450	O-RING, 1AG45.0	1							
19	3	26450-060122	BOLT, M6X 12	4							
20	2	172179-73130	ROTORY 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	PIN, PARALLEL M6X12	2							
31	3	26450-080202	BOLT, M8X 20	2							
32	3	26450-080402	BOLT, M8X 40	1							
33	2	172164-73470	VALVE ASSY, RELIEF	1							
36	3	172164-73380	SPRING	1							
37	3	172164-73390	NUT	1							
38	3	172164-73990	SHIM, 6.5X12X0.5	1							
38-1	3	172164-73510	SEAT, SPRING	1							R
(A)=M/#21745)											
39	3	172141-74430	O-RING	1							
40	2	172456-73650	SPRING ASSY, CONTROL	1							
41	3	172179-73400	SEAT, SPRING	1							
42	3	172179-73430	SCREW, ADJUST	1							
43	3	172179-73460	NUT	1							
44	3	172456-73660	COVER	1							
45	3	172456-73670	SPRING	1							
46	3	172456-73680	SPRING	1							
47	3	172456-73690	SEAT, SPRING	1							
48	3	172456-73700	PLATE, SPRING	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, 1AP9.0	1							

Fig.42. HYD.OIL PUMP & JOINT(STANDARD SPEC.)



(A)=VIO20-2(US)

(B)=

(C)=

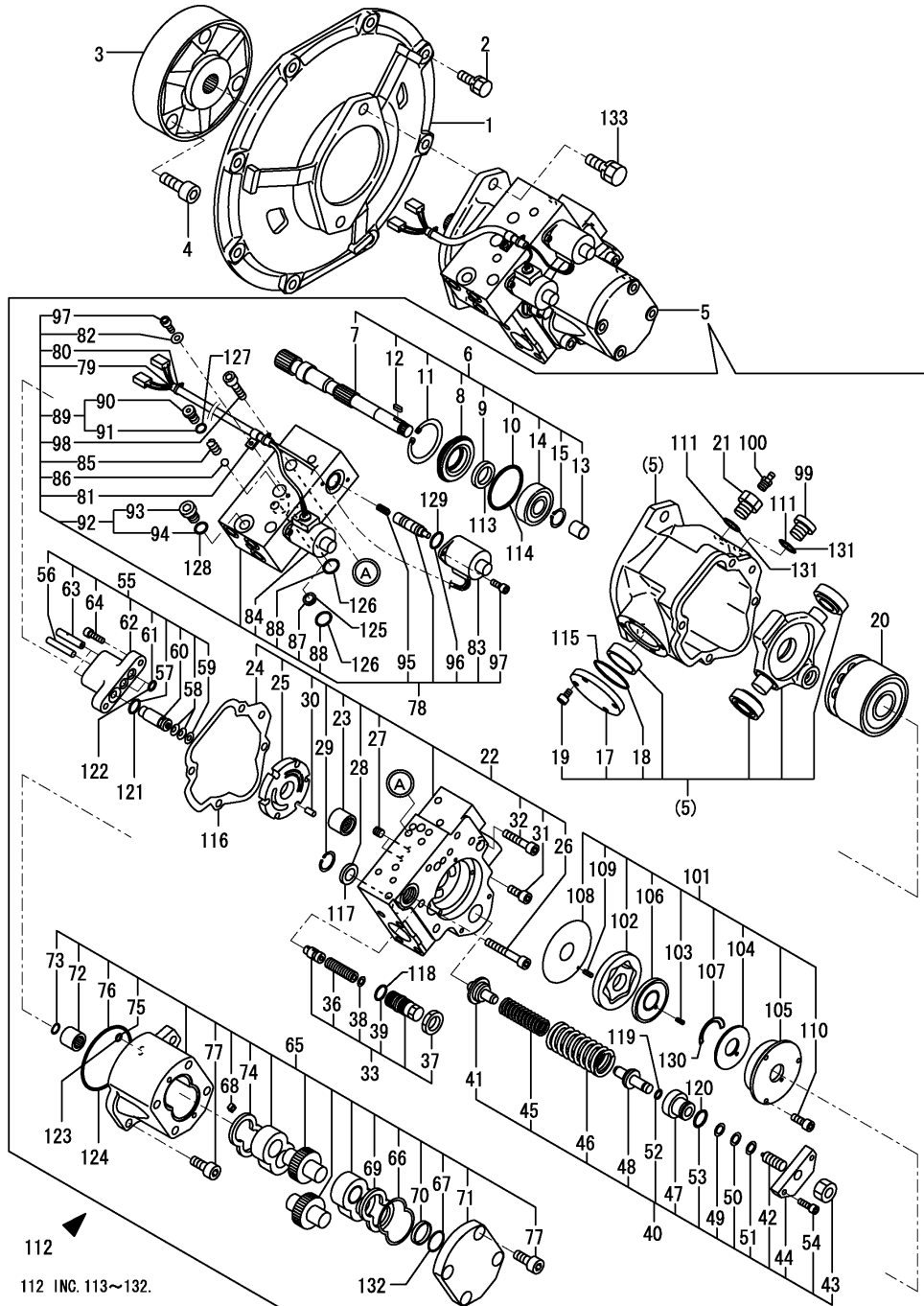
(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
53	3	24311-000180	O-RING, 1AP18.0	1							
54	3	26450-060202	BOLT, M6X 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	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, M6X 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	COUPLING	1							
73	3	172456-73840	CIRCLIP	1							
74	3	172456-73850	PLATE	1							
75	3	24315-000060	O-RING, 1BP6.0	1							
76	3	24321-000900	O-RING, 1AG90.0	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	CLAMP	1							
82	3	172164-73500	WASHER	1							
83	3	172456-73580	SOLENOID (A)	1							W
		(A=M/#20501)									
83-1	3	172989-73160	SOLENOID (A)	1							R
		(A=MXXXXX)									
84	3	172456-73590	SOLENOID (B)	1							W
		(A=M/#20501)									
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, 1BP8.0	1							
92	3	172142-74600	PLUG	1							
93	4	172142-74660	PLUG 1/4	1							
94	4	24315-000110	O-RING, 1BP11.0	1							
95	3	172165-74740	SPRING	2							
96	3	24311-000160	O-RING, 1AP16.0	2							
97	3	26450-040102	BOLT, M4X 10	5							

Fig.42. HYD.OIL PUMP & JOINT(STANDARD SPEC.)



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
98	3	26450-080302	BOLT, M8X 30	2							
99	2	172142-74670	PLUG, 3/8	1							
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	PLATE	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, M5X 12	3							
111	2	24315-000140	O-RING, 1BP14.0	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, 1AG45.0	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, 1AP9.0	1							
120	2	24311-000180	O-RING, 1AP18.0	1							
121	2	172168-71510	O-RING	1							
122	2	172179-73540	O-RING	2							
123	2	24315-000060	O-RING, 1BP6.0	1							
124	2	24321-000900	O-RING, 1AG90.0	1							
125	2	172456-73930	ELEMENT, FILTER	1							
126	2	172456-73960	O-RING	2							
127	2	24315-000080	O-RING, 1BP8.0	1							
128	2	24315-000110	O-RING, 1BP11.0	1							
129	2	24311-000160	O-RING, 1AP16.0	2							
130	2	172187-75880	O-RING	1							
131	2	24315-000140	O-RING, 1BP14.0	2							
132	2	172141-71550	O-RING	2							
133	1	26013-120302	BOLT, M12X 30	2							

112

112 INC. 113~132.

Fig.43. HYD.OIL PUMP&JOINT(QUICK COUPLER SPEC.)

(A)=VIO20-2(US)

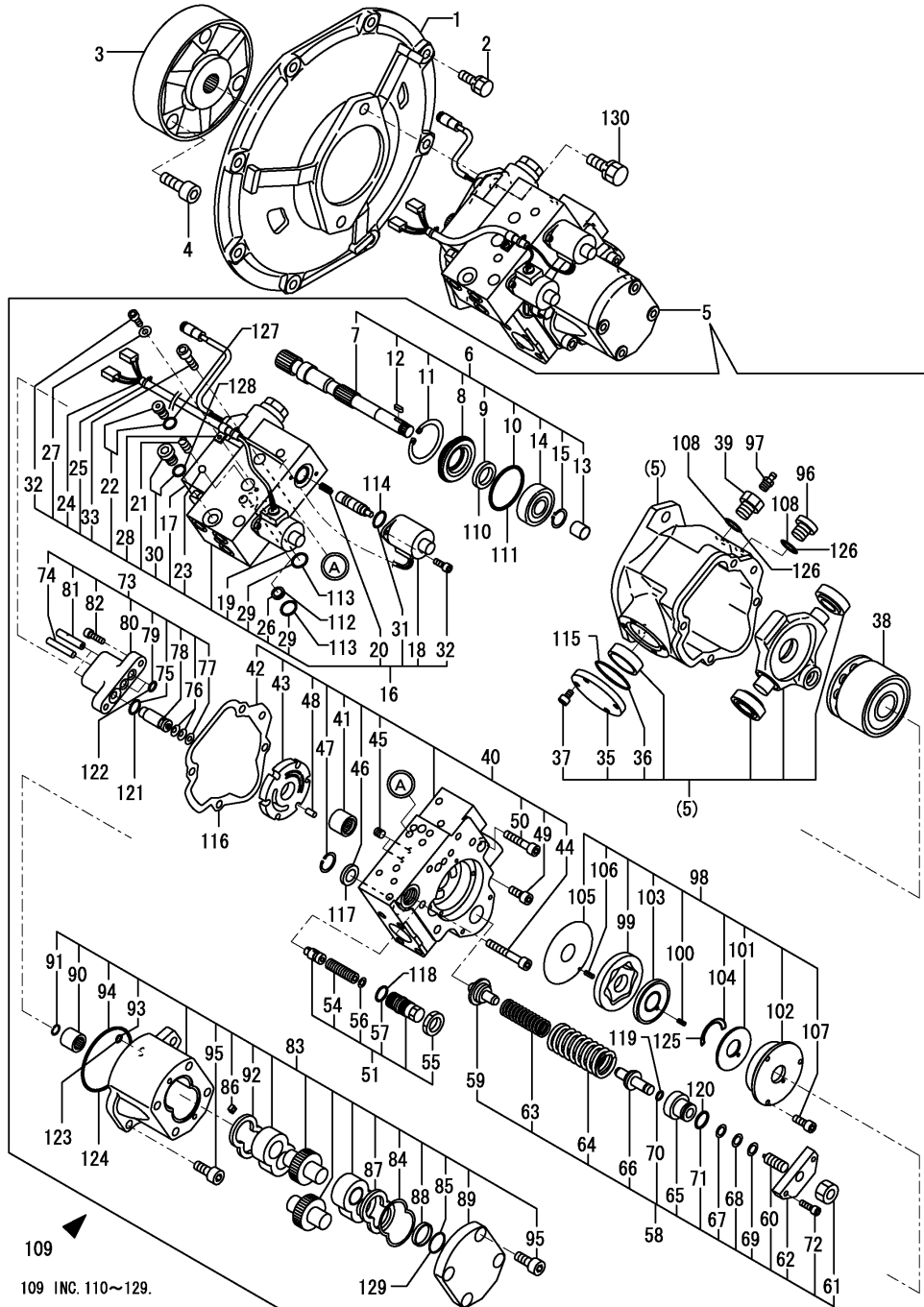
(B)=

(C)=

(D)=

(E)=

(F)=

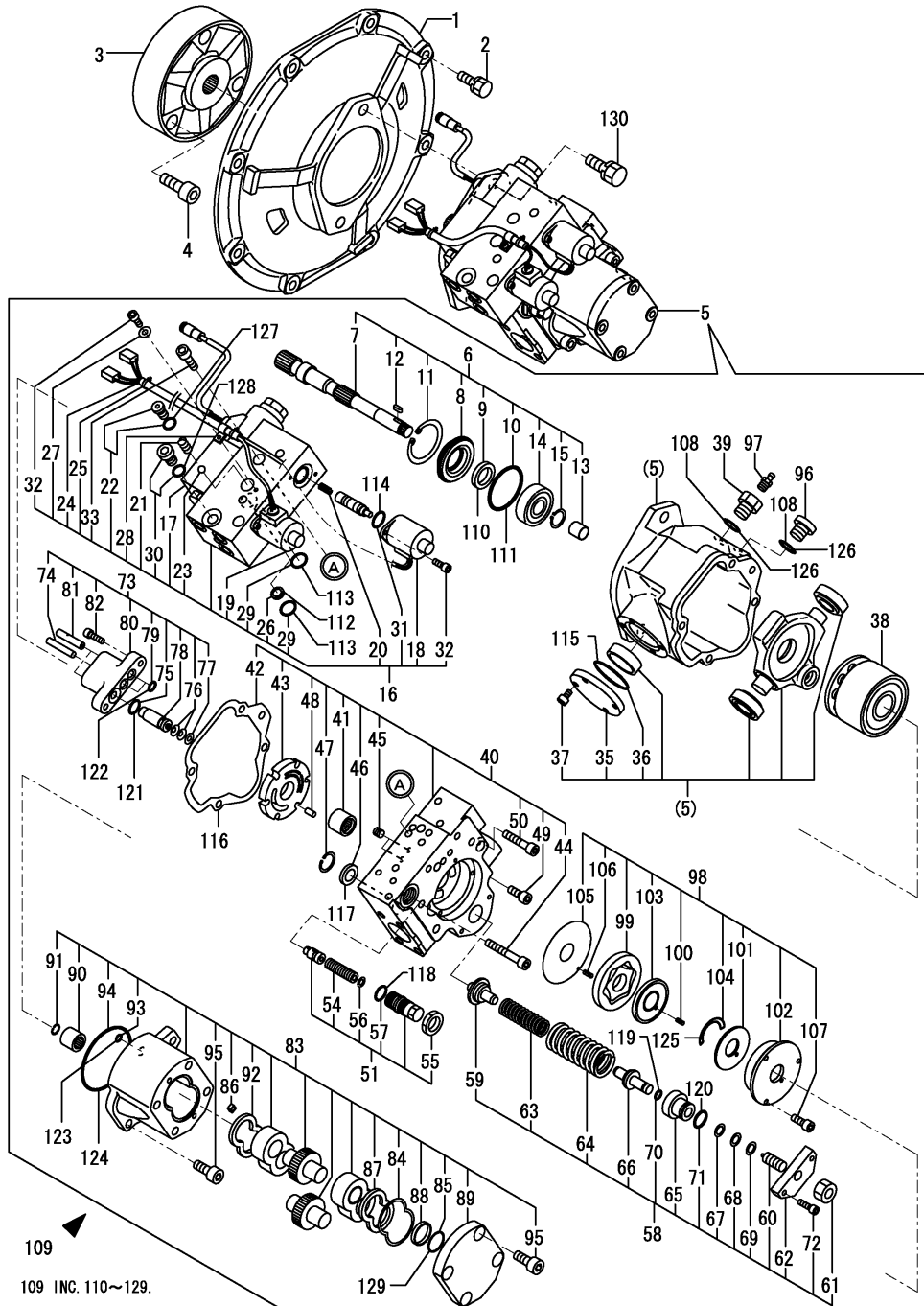


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-3	COVER, FLYWHEEL	1							
2	1	26013-100302	BOLT, M10X 30	8							
3	1	172165-71200	COUPLING	1							
4	1	26450-120402	BOLT, M12X 40	3							
5	1	172956-73100	PUMP Q ASSY	1							
6	2	172456-73110	SHAFT ASSY	1							
7	3	172456-73120	SHAFT	1							
8	3	172456-73130	SEAL, CASE	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	RING, 20	1							
16	2	172956-73110	VALVE ASSY	1							
17	3	172956-73120	VALVE, SOLENOID	1							
17-1	3	172956-73121	VALVE, SOLENOID	1							R
(A=M/#22138)											
18	3	172456-73580	SOLENOID (A	1							W
(A=M/#20501)											
18-1	3	172989-73160	SOLENOID (A	1							R
(A=MXXXXX)											
19	3	172456-73590	SOLENOID (B	1							W
(A=M/#20501)											
19-1	3	172989-73150	SOLENOID (B	1							R
(A=MXXXXX)											
20	3	172456-73870	SPRING	2							
21	3	172456-73880	SPRING	1							
22	3	172456-73890	PLUG ASSY	1							
23	3	172456-73900	BALL, STEEL	1							
24	3	172456-73910	COVER	1							
25	3	172456-73920	BAND	2							
26	3	172456-73930	ELEMENT, FILTER	1							
27	3	172456-73940	WASHER	1							
28	3	172456-73950	CLAMP	1							
29	3	172456-73960	O-RING	2							
30	3	172456-73970	PLUG ASSY	1							
31	3	24311-000160	O-RING, 1AP16.0	2							
32	3	26450-040102	BOLT, M4X 10	5							
33	3	26450-080302	BOLT, M8X 30	2							
35	3	172179-73250	COVER	1							
36	3	24321-000450	O-RING, 1AG45.0	1							
37	3	26450-060122	BOLT, M6X 12	4							
38	2	172179-73130	ROTARY SET	1							
39	2	172179-73190	BUSHING	1							
40	2	172456-73280	COVER ASSY	1							
41	3	172179-73270	BEARING	1							
42	3	172179-73280	GASKET	1							
43	3	172456-73290	CONTROL PLATE	1							
44	3	172650-73450	BOLT,8X55HEX SOCKET	2							

109

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Fig.43. HYD.OIL PUMP&JOINT(QUICK COUPLER SPEC.)



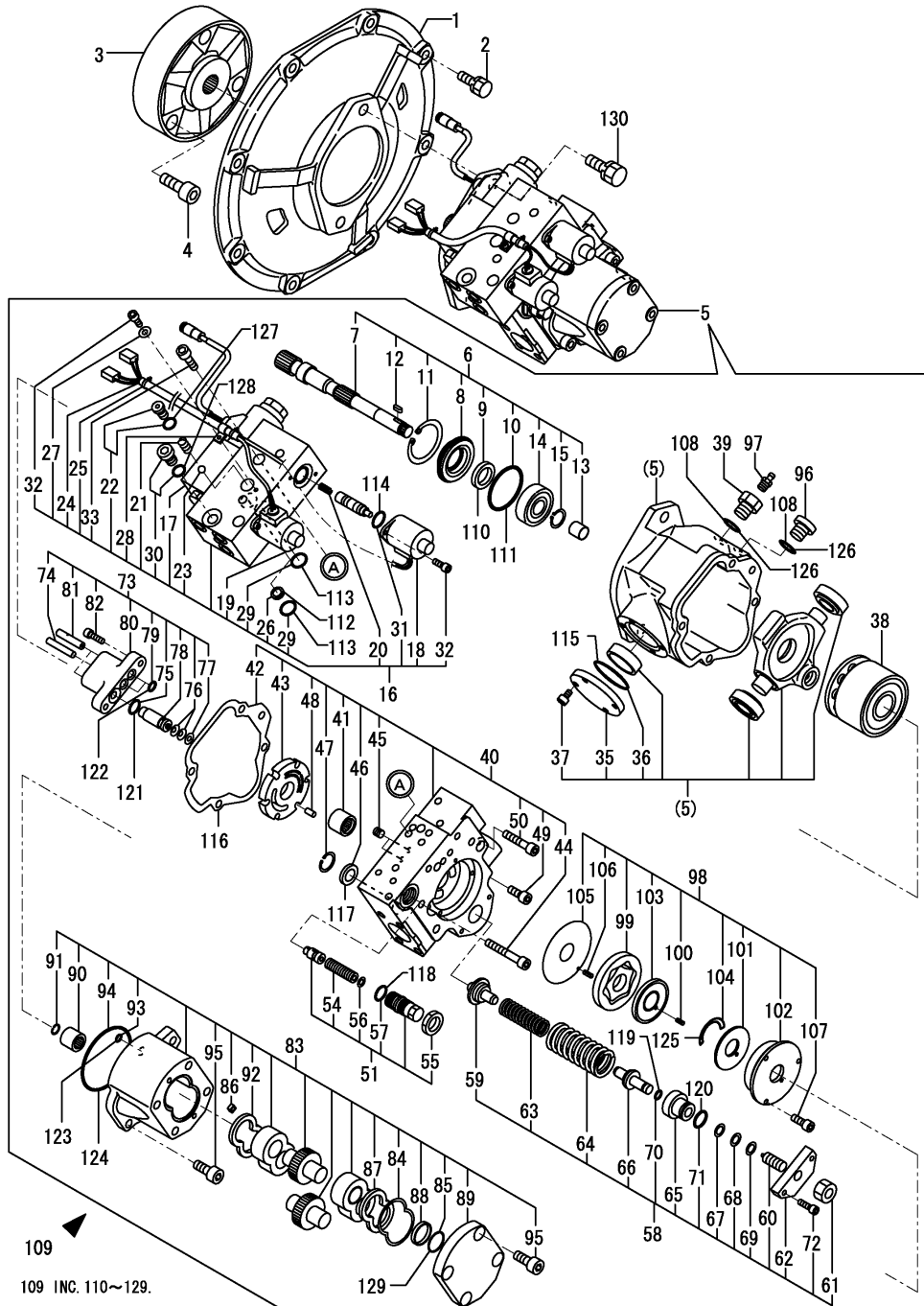
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
45	3	172456-73600	ORIFICE	2							
46	3	172456-73610	FILTER	1							
47	3	172164-73670	CIRCLIP	1							
48	3	22312-060120	PIN, PARALLEL M6X12	2							
49	3	26450-080202	BOLT, M8X 20	2							
50	3	26450-080402	BOLT, M8X 40	1							
51	2	172164-73470	VALVE ASSY, RELIEF	1							
54	3	172164-73380	SPRING	1							
55	3	172164-73390	NUT	1							
56	3	172164-73990	SHIM, 6.5X12X0.5	1							
56-1	3	172164-73510	SEAT, SPRING	1							R
(A=M/#21745)											
57	3	172141-74430	O-RING	1							
58	2	172456-73650	SPRING ASSY, CONTROL	1							
59	3	172179-73400	SEAT, SPRING	1							
60	3	172179-73430	SCREW, ADJUST	1							
61	3	172179-73460	NUT	1							
62	3	172456-73660	COVER	1							
63	3	172456-73670	SPRING	1							
64	3	172456-73680	SPRING	1							
65	3	172456-73690	SEAT, SPRING	1							
66	3	172456-73700	PLATE, SPRING	1							
67	3	172456-73710	SHIM	1							
68	3	172456-73720	SHIM	1							
69	3	172456-73730	SHIM	1							
70	3	24311-000090	O-RING, 1AP9.0	1							
71	3	24311-000180	O-RING, 1AP18.0	1							
72	3	26450-060202	BOLT, M6X 20	1							
73	2	172456-73740	PISTON ASSY, CONTROL	1							
74	3	172168-71500	PARALLEL PIN	1							
75	3	172168-71510	O-RING	1							
76	3	172168-71520	SPRING	2							
77	3	172168-71530	RETAINER	1							
78	3	172179-73510	PISTON	1							
79	3	172179-73540	O-RING	2							
80	3	172456-73750	CYLINDER	1							
81	3	172456-73770	PISTON, HYDRAULIC	2							
82	3	26450-060202	BOLT, M6X 20	2							
83	2	172456-73790	PUMP ASSY, GEAR	1							
84	3	172141-71520	RING	1							
85	3	172141-71550	O-RING	2							
86	3	172141-71560	RING	2							
87	3	172141-73220	PLATE	1							
88	3	172141-73230	GUIDE	2							
89	3	172456-73800	COVER	1							
90	3	172456-73810	COUPLING	1							
91	3	172456-73840	CIRCLIP	1							
92	3	172456-73850	PLATE	1							
93	3	24315-000060	O-RING, 1BP6.0	1							
94	3	24321-000900	O-RING, 1AG90.0	1							
95	3	26450-100252	BOLT, M10X 25	6							

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.43. HYD.OIL PUMP&JOINT(QUICK COUPLER SPEC.)

(A)=VIO20-2(US)
(B)=
(C)=

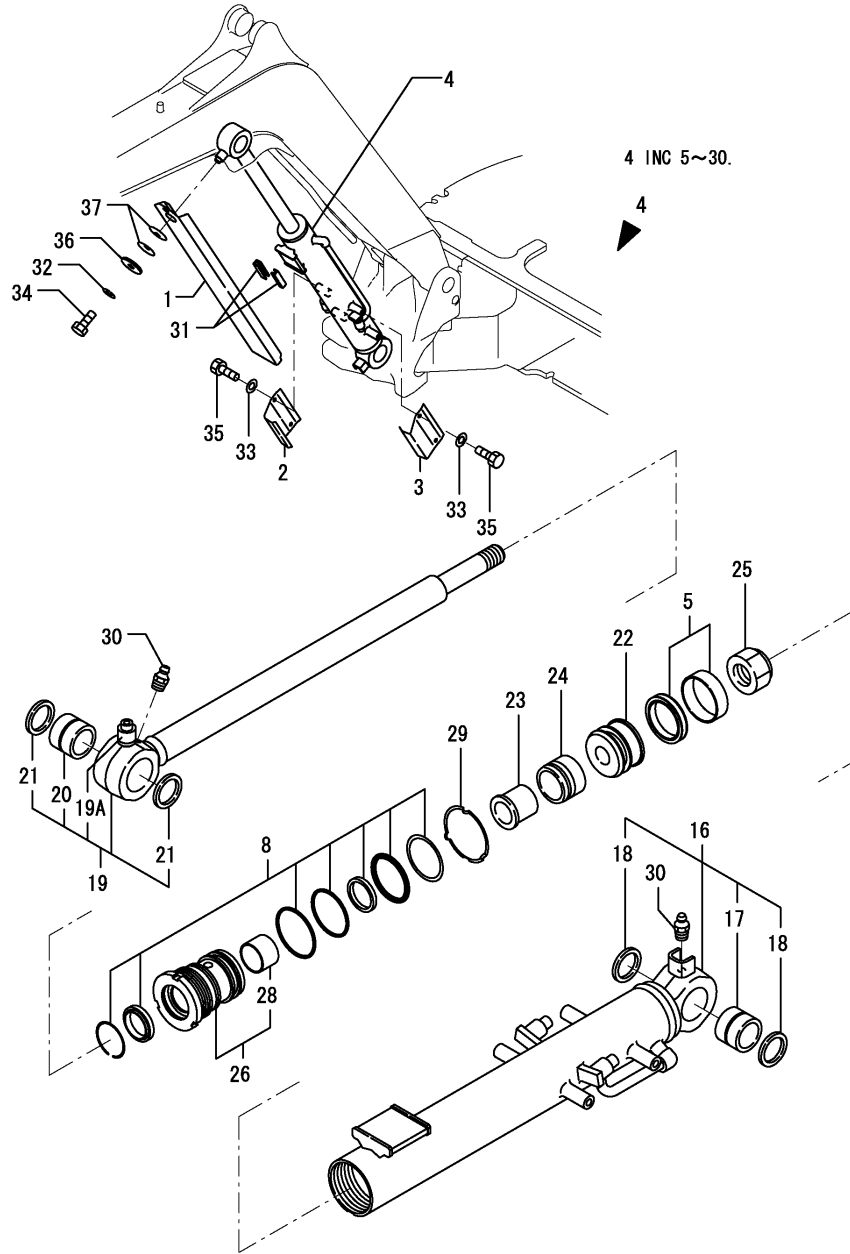
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
96	2	172142-74670	PLUG, 3/8	1							
97	2	172456-75430	PLUG	1							
98	2	172456-75440	PUMP ASSY, TROCHOID	1							
99	3	172456-75450	GEAR	1							
100	3	172456-75460	PIN, SPRING	1							
101	3	172456-75480	PLATE	1							
102	3	172187-75860	CASE	1							
103	3	172187-75870	PLATE A, SIDE	1							
104	3	172187-75880	O-RING	1							
105	3	172187-75910	PLATE B, SIDE	1							
106	3	172187-75920	PIN, SPRING	1							
107	3	26450-050122	BOLT, M5X 12	3							
108	2	24315-000140	O-RING, 1BP14.0	2							
109	1	172456-73070	SEAL SET	1							
110	2	172456-73140	SEAL, OIL	1							
111	2	172456-73150	O-RING	1							
112	2	172456-73930	ELEMENT, FILTER	1							
113	2	172456-73960	O-RING	2							
114	2	24311-000160	O-RING, 1AP16.0	2							
115	2	24321-000450	O-RING, 1AG45.0	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, 1AP9.0	1							
120	2	24311-000180	O-RING, 1AP18.0	1							
121	2	172168-71510	O-RING	1							
122	2	172179-73540	O-RING	2							
123	2	24315-000060	O-RING, 1BP6.0	1							
124	2	24321-000900	O-RING, 1AG90.0	1							
125	2	172187-75880	O-RING	1							
126	2	24315-000140	O-RING, 1BP14.0	2							
127	2	24315-000080	O-RING, 1BP8.0	1							
128	2	24315-000110	O-RING, 1BP11.0	1							
129	2	172141-71550	O-RING	2							
130	1	26013-120302	BOLT, M12X 30	2							

109
109 INC. 110~129.

Fig.44. BOOM CYLINDER



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72200-1	COVER, SLIDE	1							
2	1	172457-72230-1	COVER ASSY, CYLINDER	1							
3	1	172457-72240-1	COVER, CYLINDER	1							
4	1	172469-72400-1	CYLINDER ASSY, BOOM	1							
5	2	172143-72010	SEAL SET, PISTON 70	1							
5-1	2	172460-72070	SEAL SET, PISTON	1							N
(A=M/#21915)											
8	2	172456-72010	SEAL SET, HEAD 70 40	1							
16	2	172456-72110-1	TUBE, BOOM	1							
17	3	172168-72410	BUSH 40X50X40	1							
18	3	172165-81750	SEAL, DUST 40X50X5	2							
18-1	3	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
19	2	172456-72130	LOD ASSY,BOOM 40	1							
19A	3	172168-72390	SEAT, SCREW M10X34.3	1							W 1
(A=M/#20501)											
20	3	172168-72410	BUSH 40X50X40	1							
21	3	172165-81750	SEAL, DUST 40X50X5	2							
21-1	3	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
22	2	172456-72190	PISTON 70 27	1							
23	2	172457-72190	COLLAR, 27 38	1							
24	2	172457-72200	PLUNGER 50,CUSHON	1							
25	2	172141-72250	NUT	1							
26	2	172469-72410	HEAD ASSY,70 40	1							
28	3	933135-14600	BUSH 40 30, ROD	1							
28-1	3	24550-040300	BUSH, 40X30	1							R
(A=M/#20904)											
29	2	172141-72420	WASHER 70, LOCK	1							
30	2	24761-020000	NIPPLE, GREASE PT1/8	2							
31	1	172186-72480	GUIDE, SLIDE	2							
32	1	22217-100000	WASHER, SPRING 10	1							
33	1	22217-100000	WASHER, SPRING 10	4							
34	1	26116-100162	BOLT, M10X 16 PLATED	1							
35	1	26116-100162	BOLT, M10X 16 PLATED	4							
36	1	933147-03400	WASHER, BRAKE ARM	1							
37	1	933168-14170	SPRING	2							

Remarks

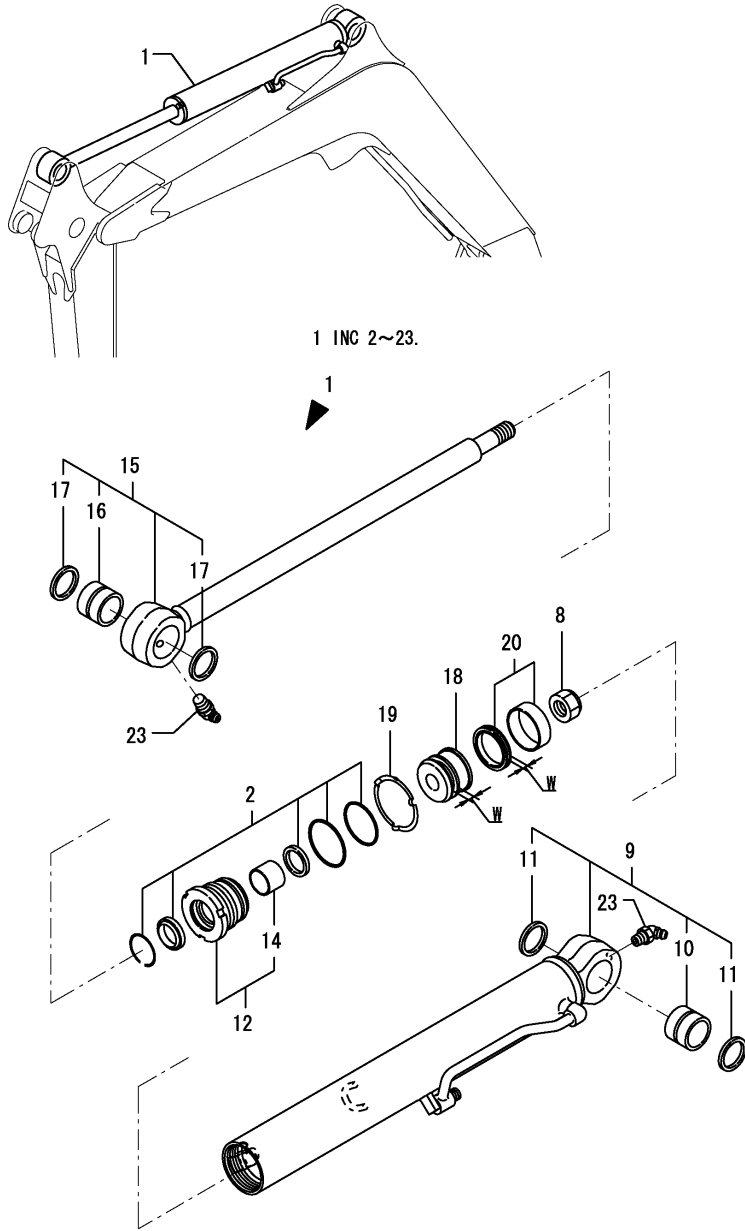
(1)WELDED PART

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

Fig.45. ARM CYLINDER

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72300-1	CYLINDER, ARM	1							
2	2	172456-72020	SEAL SET, HEAD 65 35	1							
8	2	172171-72130	NUT, M24	1							
9	2	172456-72310-1	TUBE, ARM	1							
10	3	172168-72410	BUSH 40X50X40	1							
11	3	172165-81750	SEAL, DUST 40X50X5	2							
11-1	3	172448-72650	SEAL, DUST	2							R
(A=M/#21694)											
12	2	172173-72330	HEAD ASSY, 65 35	1							
14	3	933111-01600	BUSH 35 30, ROD	1							
14-1	3	24550-035300	BUSH, 35X30	1							R
(A=M/#20904)											
15	2	172456-72330	LOD ASSY,ARM	1							
16	3	172168-72410	BUSH 40X50X40	1							
17	3	172165-81750	SEAL, DUST 40X50X5	2							
17-1	3	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
18	2	172173-72351	PISTON 65 24	1							
18-1	2	172173-72352	PISTON 65 24	1							S 1
(A=M22022)											
19	2	172142-72560	WASHER 65, LOCK	1							
20	2	172148-72940	SEAL SET, PISTON	1							
20-1	2	172148-72941	SEAL SET, PISTON	1							S 1
(A=M22022)											
23	2	24761-040000	NIPPLE, GREASE B	2							

Remarks

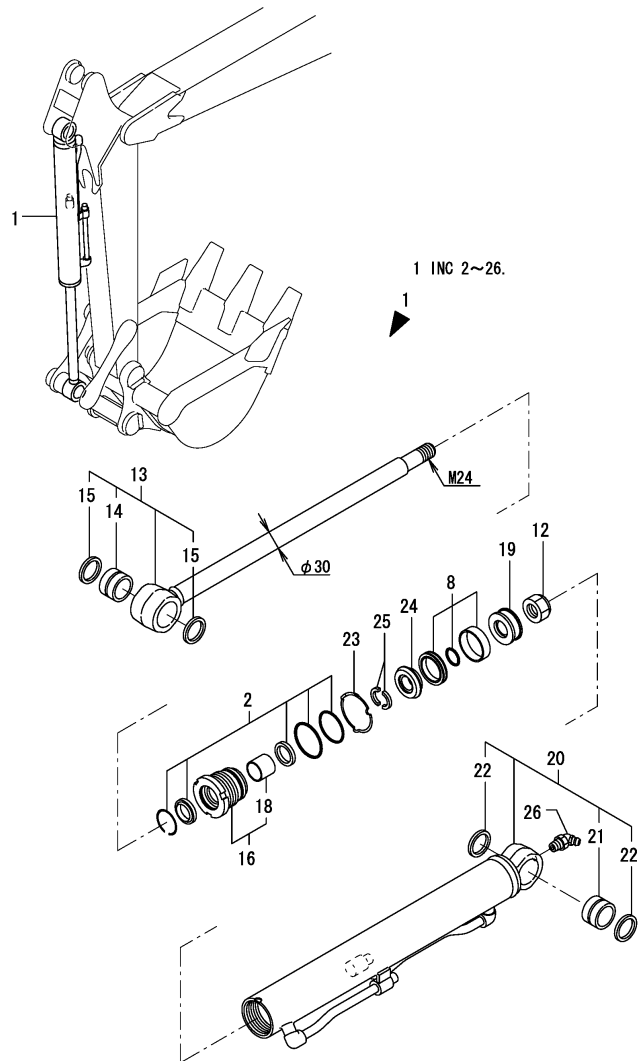
(1)W=REF.NO.18 & 20 : 9MM.
REF.NO.18-1 & 20-1 : 11MM.

Fig.46. BUCKET CYL.(STD.:PREVIOUS 1

(A)=VIO20-2(US)
(B)=
(C)=

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

~M/#21782

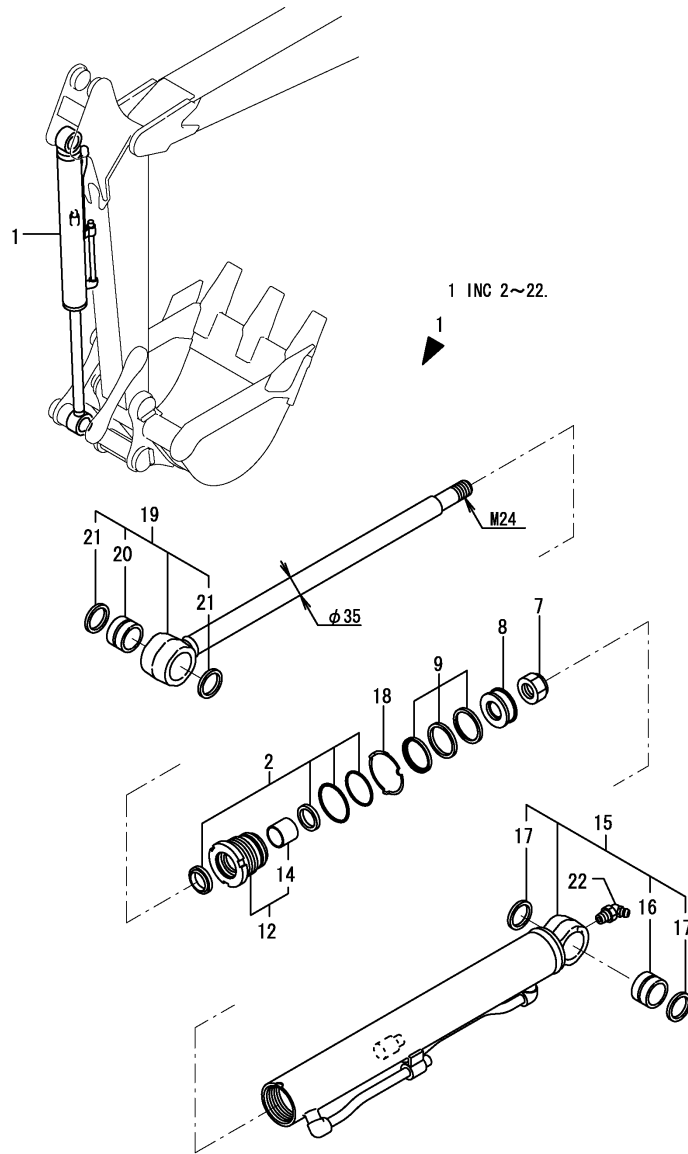


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72500-1	CYLINDER ASSY	1							1
2	2	172456-72030	SEAL SET, HEAD 55 30	1							
8	2	172456-72040	SEAL SET, PISTON 55	1							
12	2	172171-72130	NUT, M24	1							
13	2	172173-72461	ROD ASSY,BUCKET	1							
13-1	2	172173-72580	ROD ASSY,BUCKET	1							N
(A=XXX)											
14	3	172141-72561	BUSH (35-45-30	1							
15	3	172171-81280	SEAL, DUST 35X45X4	2							
16	2	172173-72490	HEAD ASSY, 55 30	1							
18	3	933111-01800	BUSH 30 30	1							
18-1	3	24550-030300	BUSH, 30X30	1							R
(A=M/#20904)											
19	2	172173-72512	PISTON A	1							
20	2	172456-72511	TUBE, BUCKET	1							
20-1	2	172456-72610	TUBE, BUCKET	1							N
(A=XXX)											
21	3	172141-72561	BUSH (35-45-30	1							
22	3	172171-81280	SEAL, DUST 35X45X4	2							
23	2	172173-72550	ROCK WASHER 55	1							
24	2	172173-72560	PISTON B	1							
25	2	172173-72570	COLLAR	2							
26	2	24761-040000	NIPPLE, GREASE B	1							

Remarks
(1)INTERCHANGEABLE WITH FIG.NO.48
REF.NO.1.

Fig.47. BUCKET CYLINDER(STANDARD.:PREVIOUS 2)

M/#21783~M/#22193



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72501-1	CYLINDER ASSY	1							1
2	2	172456-72031	SEAL SET, HEAD 55 35	1							
7	2	172171-72130	NUT, M24	1							
8	2	172449-72310	PISTON 55(24-28	1							
9	2	172449-72320	GASKET	1							
12	2	172449-72410	HEAD CMP B,55-35	1							
14	3	24550-035300	BUSH, 35X30	1							
15	2	172456-72512-1	TUBE, BUCKET	1							
16	3	172141-72561	BUSH (35-45-30	1							
17	3	172448-81610	SEAL, DUST 35X45X4	2							
18	2	172173-72550	ROCK WASHER 55	1							
19	2	172456-72560	LOD CMP,BUCKET	1							
20	3	172141-72561	BUSH (35-45-30	1							
21	3	172448-81610	SEAL, DUST 35X45X4	2							
22	2	24761-040000	NIPPLE, GREASE B	1							

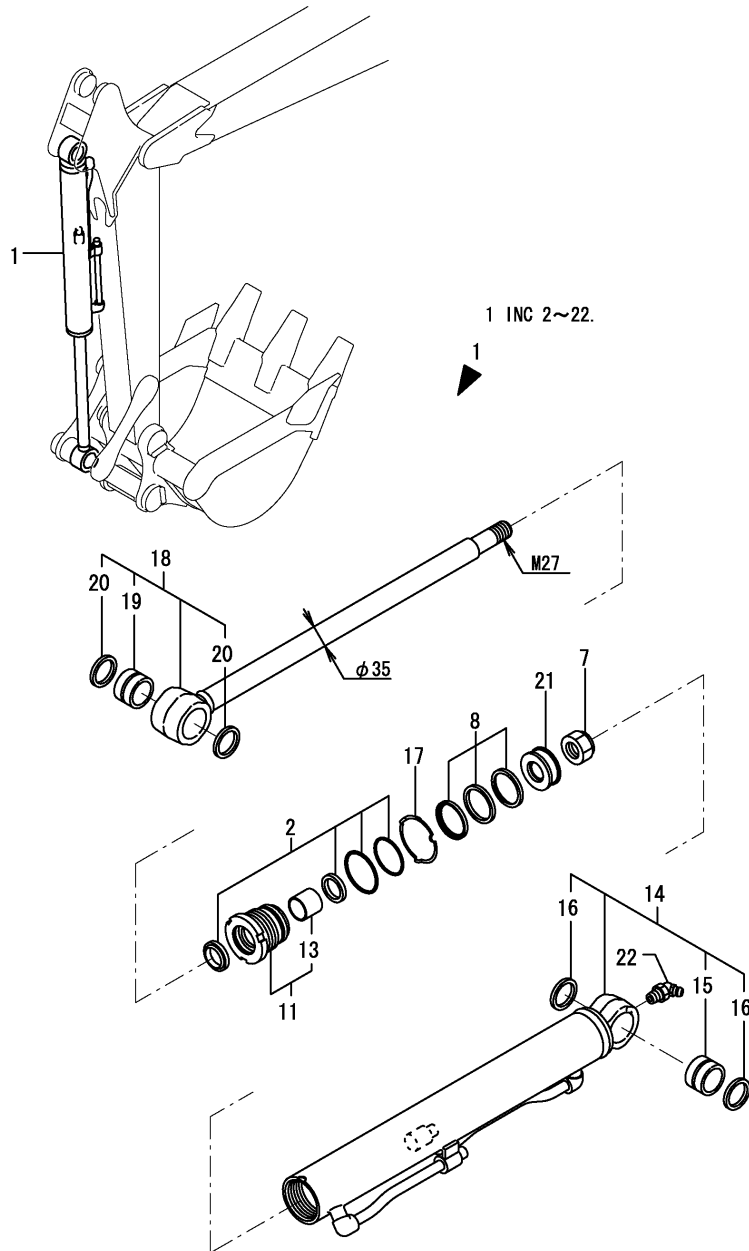
Remarks
(1)INTERCHANGEABLE WITH FIG.NO.48
REF.NO.1.

Fig.48. BUCKET CYLINDER(STANDARD.:NEW)

(A)=VIO20-2(US)
(B)=
(C)=

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

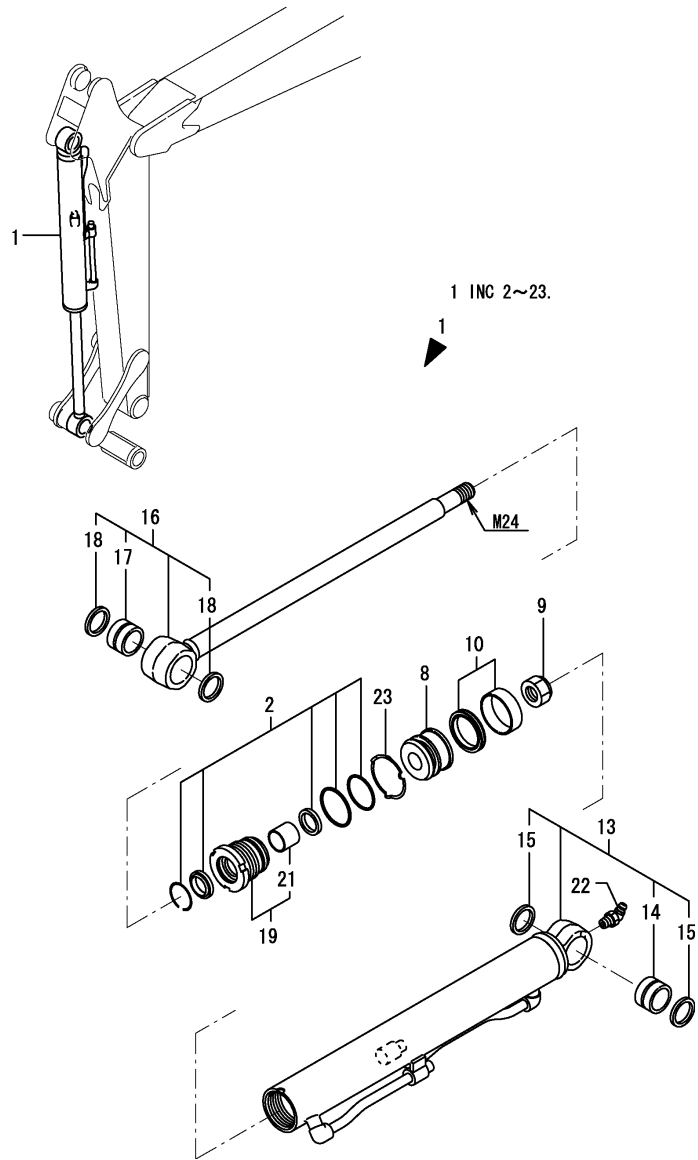
M/#22194~



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72502-1	CYLINDER ASSY	1							
2	2	172456-72031	SEAL SET, HEAD 55 35	1							
7	2	172141-72250	NUT	1							
8	2	172449-72321	GASKET ASSY, RGU55	1							
11	2	172449-72410	HEAD CMP B,55-35	1							
13	3	24550-035300	BUSH, 35X30	1							
14	2	172456-72512-1	TUBE, BUCKET	1							
15	3	172141-72561	BUSH (35-45-30)	1							
16	3	172448-81610	SEAL, DUST 35X45X4	2							
17	2	172173-72550	ROCK WASHER 55	1							
18	2	172456-72561	ROD ASSY, BUCKET	1							
19	3	172141-72561	BUSH (35-45-30)	1							
20	3	172448-81610	SEAL, DUST 35X45X4	1							
21	2	172456-72580	PISTON 55 (27-27)	1							
22	2	24761-040000	NIPPLE, GREASE B	1							

Fig.49. BUCKET CYLINDER(QUICK COUPLER SPEC.:PREVIOUS)

~M/#22193



(A)=VIO20-2(US)
(B)=
(C)=

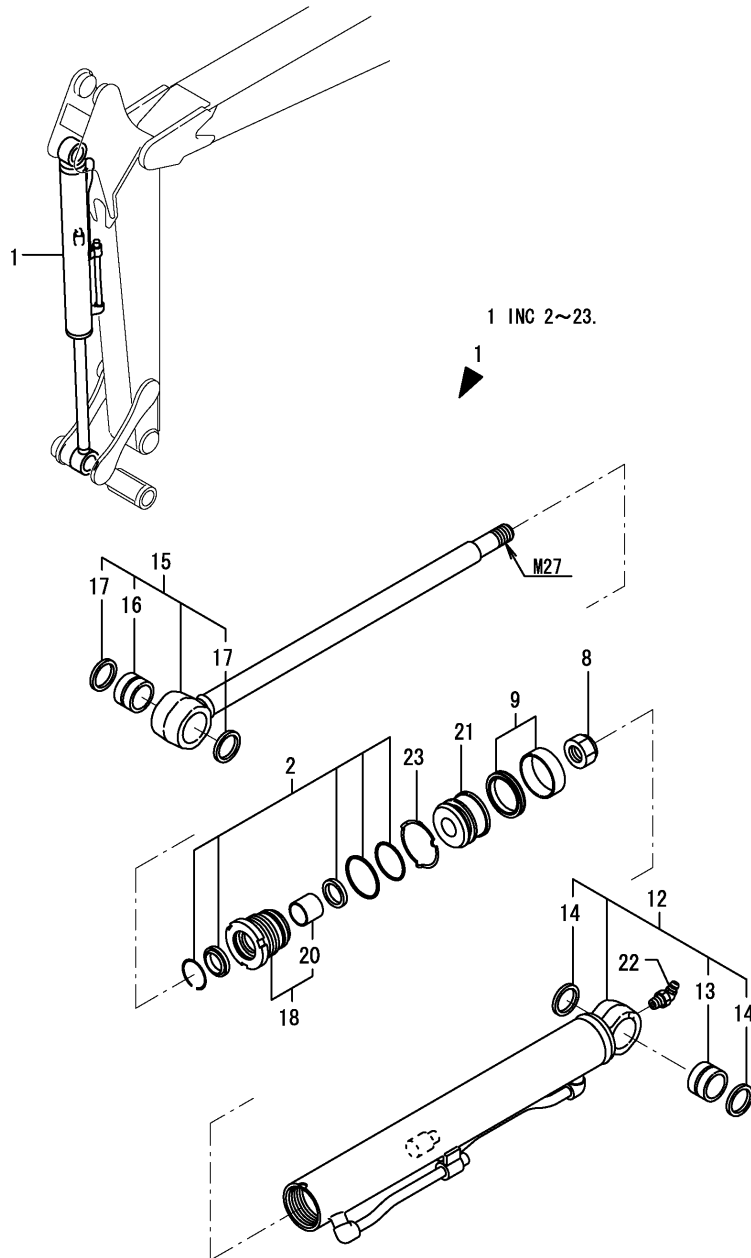
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172956-72500-1	CYLINDER ASSY	1							1
2	2	172457-72050	SEAL SET, HEAD	1							
8	2	172171-72120	PISTON	1							
9	2	172171-72130	NUT, M24	1							
10	2	172137-72452	SEAL SET, PISTON 60A	1							
10-1	2	172137-72453	SEAL SET, PISTON 60A	1							N
(A=M/#21915)											
13	2	172956-72511-1	TUBE, BUCKET	1							
14	3	172141-72561	BUSH (35-45-30)	1							
15	3	172171-81280	SEAL, DUST 35X45X4	2							
15-1	3	172448-81610	SEAL, DUST 35X45X4	2							R
(A=M/#21808)											
16	2	172956-72530	ROD, BUCKET Q	1							
17	3	172141-72561	BUSH (35-45-30)	1							
18	3	172171-81280	SEAL, DUST 35X45X4	2							
18-1	3	172448-81610	SEAL, DUST 35X45X4	2							R
(A=M/#21808)											
19	2	172141-72540	HEAD 6035, CYLINDER	1							
21	3	933111-01600	BUSH 35 30, ROD	1							
21-1	3	24550-035300	BUSH, 35X30	1							R
(A=M/#20904)											
22	2	24761-040000	NIPPLE, GREASE B	1							
23	2	933125-59600	WASHER 60 B, LOCK	1							

Remarks
(1) INTERCHANGEABLE WITH FIG.NO.50
REF.NO.1.

Fig.50. BUCKET CYLINDER(QUICK COUPLER SPEC.:NEW)

M/#22194~



(A)=VIO20-2(US)
(B)=
(C)=

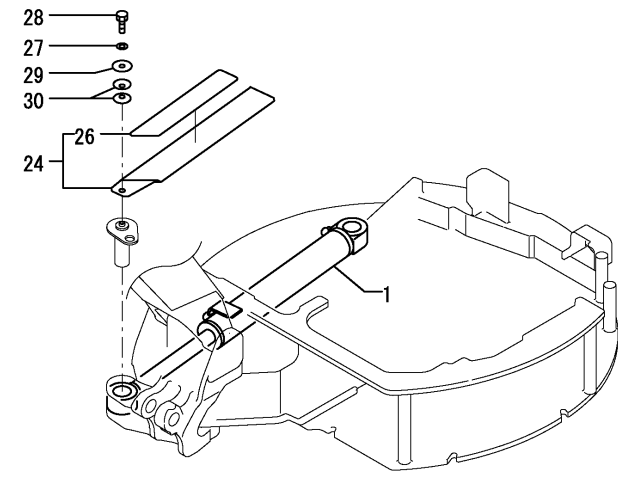
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172956-72501-1	CYLINDER ASSY	1							
2	2	172457-72050	SEAL SET, HEAD	1							
8	2	172141-72250	NUT	1							
9	2	172137-72453	SEAL SET, PISTON 60A	1							
12	2	172956-72511-1	TUBE, BUCKET	1							
13	3	172141-72561	BUSH (35-45-30	1							
14	3	172448-81610	SEAL, DUST 35X45X4	2							
15	2	172956-72531	ROD ASSY, BUCKET (Q)	1							
16	3	172141-72561	BUSH (35-45-30	1							
17	3	172448-81610	SEAL, DUST 35X45X4	2							
18	2	172141-72540	HEAD 6035, CYLINDER	1							
20	3	24550-035300	BUSH, 35X30	1							
21	2	172956-72560	PISTON 60	1							
22	2	24761-040000	NIPPLE, GREASE B	1							
23	2	933125-59600	WASHER 60 B, LOCK	1							

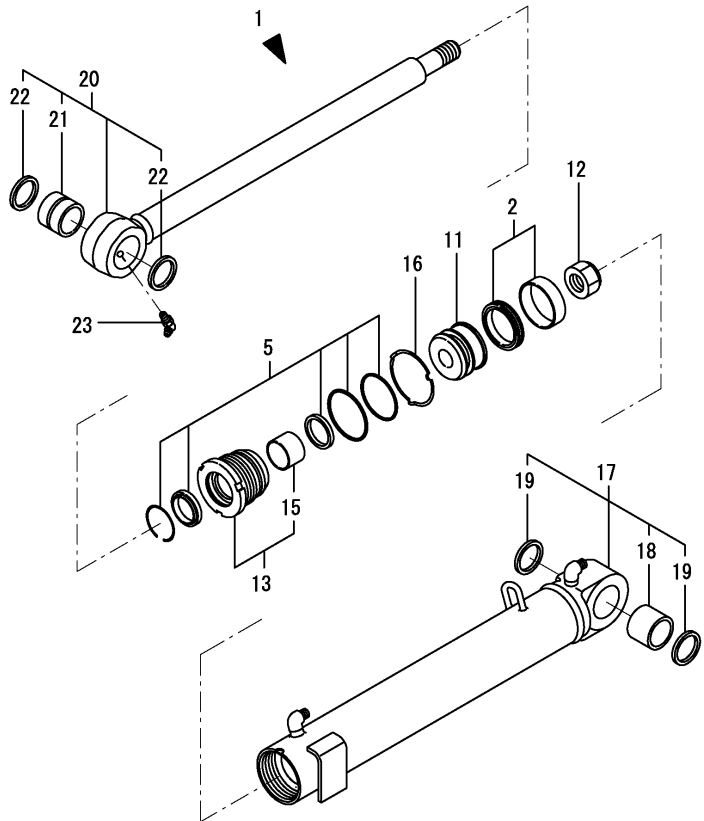
Fig.51. SWING CYLINDER

(A)=VIO20-2(US)
(B)=
(C)=

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

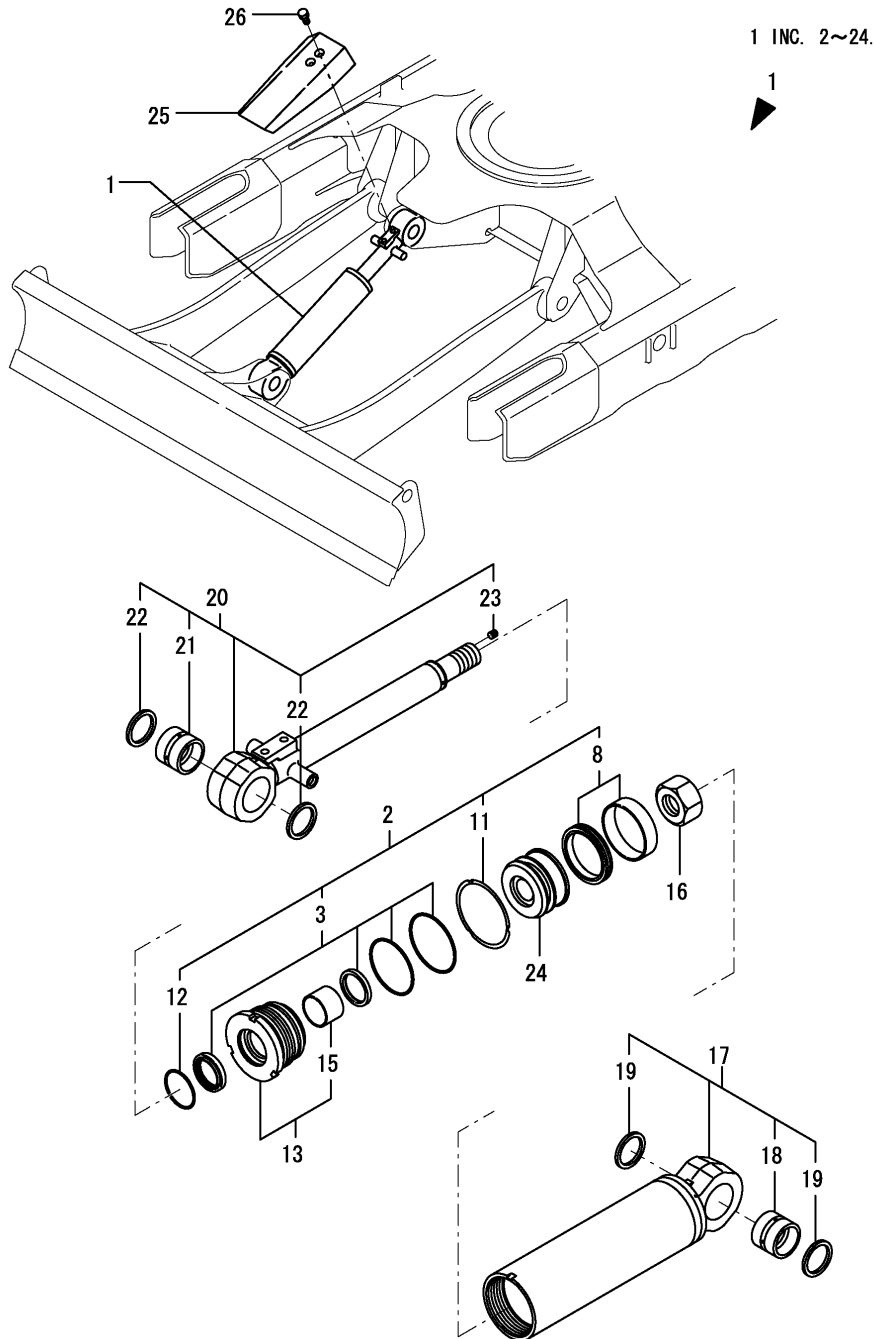


1 INC 2~23.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72700-1	CYLINDER ASSY, SWING	1							
2	2	172143-72010	SEAL SET, PISTON 70	1							
2-1	2	172460-72070	SEAL SET, PISTON	1							N
(A=M/#21813)											
5	2	172456-72050	SEAL SET, HEAD	1							
11	2	172456-72190	PISTON 70 27	1							
12	2	172141-72250	NUT	1							
13	2	172143-72400	HEAD 70 40	1							
15	3	933135-14600	BUSH 40 30, ROD	1							
15-1	3	24550-040300	BUSH, 40X30	1							R
(A=M/#20904)											
16	2	172141-72420	WASHER 70, LOCK	1							
17	2	172456-72710-1	TUBE, SWING	1							
18	3	172458-72740	BUSH 40X40,SO	1							
19	3	172165-81750	SEAL, DUST 40X50X5	2							
19-1	3	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
20	2	172456-72740	ROD ASSY,SWING	1							
21	3	172165-72310	BUSH 40X40	1							
22	3	172165-81750	SEAL, DUST 40X50X5	1							
22-1	3	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
23	2	24761-050000	NIPPLE, GREASE C	1							
24	1	172456-72790-1	COVER, SWING	1							
26	2	172456-72830	SEAT, COVER	1							
27	1	22217-100000	WASHER, SPRING 10	1							
28	1	26116-100162	BOLT, M10X 16 PLATED	1							
29	1	933147-03400	WASHER, BRAKE ARM	1							
30	1	933168-14170	SPRING	2							

Fig.52. BLADE CYLINDER



(A)=VIO20-2(US)
(B)=
(C)=

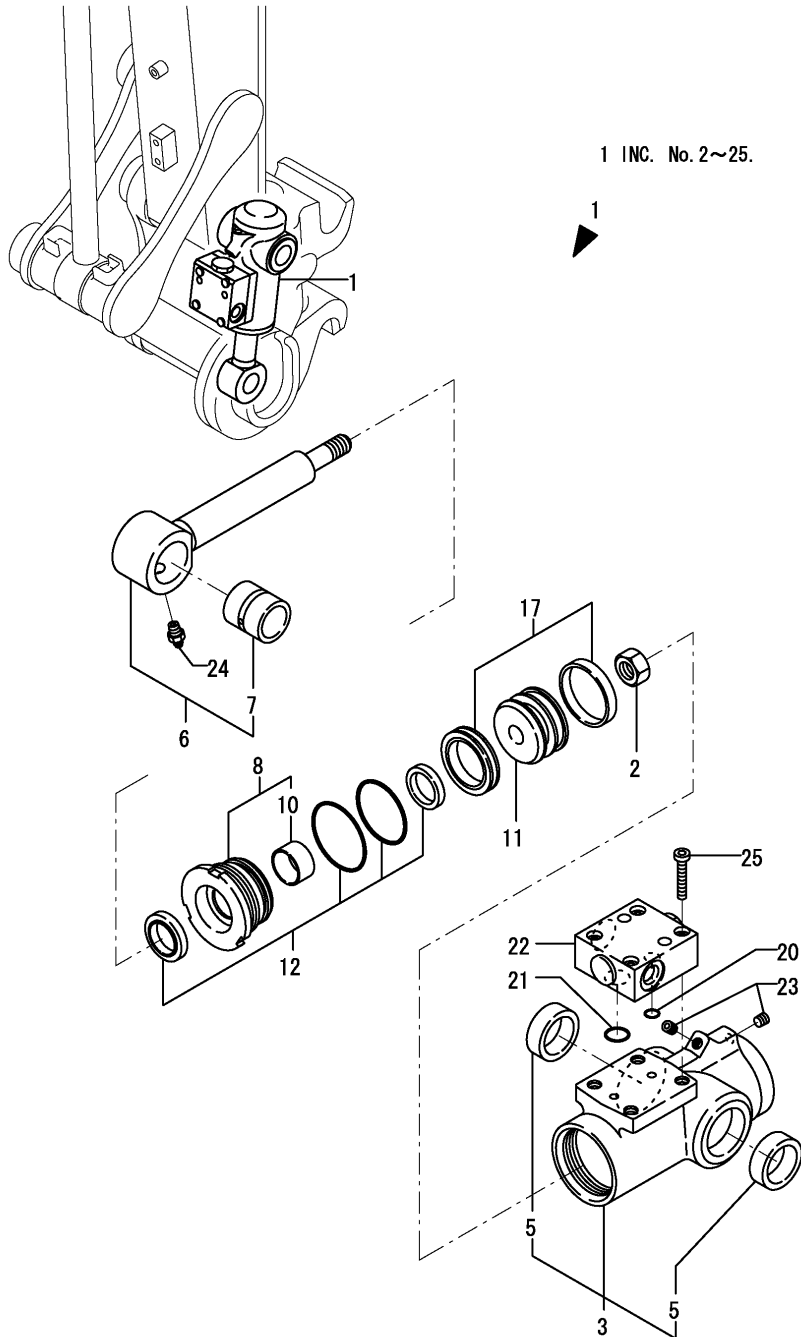
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172421-72700-1	CYLINDER ASSY, BLADE	1							
2	2	172168-72010	SEAL SET, CYLINDER	1							
3	3	172168-72020	SEAL SET, HEAD 70X40	1							
8	3	172168-72030	SEAL SET, 70X40	1							
8-1	3	172460-72070	SEAL SET, PISTON	1							N
(A=M/#21813)											
11	3	172141-72420	WASHER 70, LOCK	1							
12	3	933111-26600	RING 55, SPRING	1							
13	2	172143-72400	HEAD 70 40	1							
15	3	933135-14600	BUSH 40 30, ROD	1							
15-1	3	24550-040300	BUSH, 40X30	1							R
(A=M/#20904)											
16	2	172175-72550	NUT	1							
17	2	172421-72710-1	TUBE ASSY, BLADE	1							
18	3	172168-72240	BUSH 38X50X40	1							
19	3	172168-81270	SEAL, DUST	2							
20	2	172421-72730	ROD COMP.,BLADE	1							
21	3	172168-72240	BUSH 38X50X40	1							
22	3	172168-81270	SEAL, DUST	2							
23	3	23871-005000	PLUG, R005	1							
24	2	172421-72770	PISTON 70 30	1							
25	1	172422-72790-3	COVER, BLADE	1							
26	1	26013-100202	BOLT, M10X 20	2							

Fig.53. HITCH CYL.(QUICK COUPLER SPEC.)

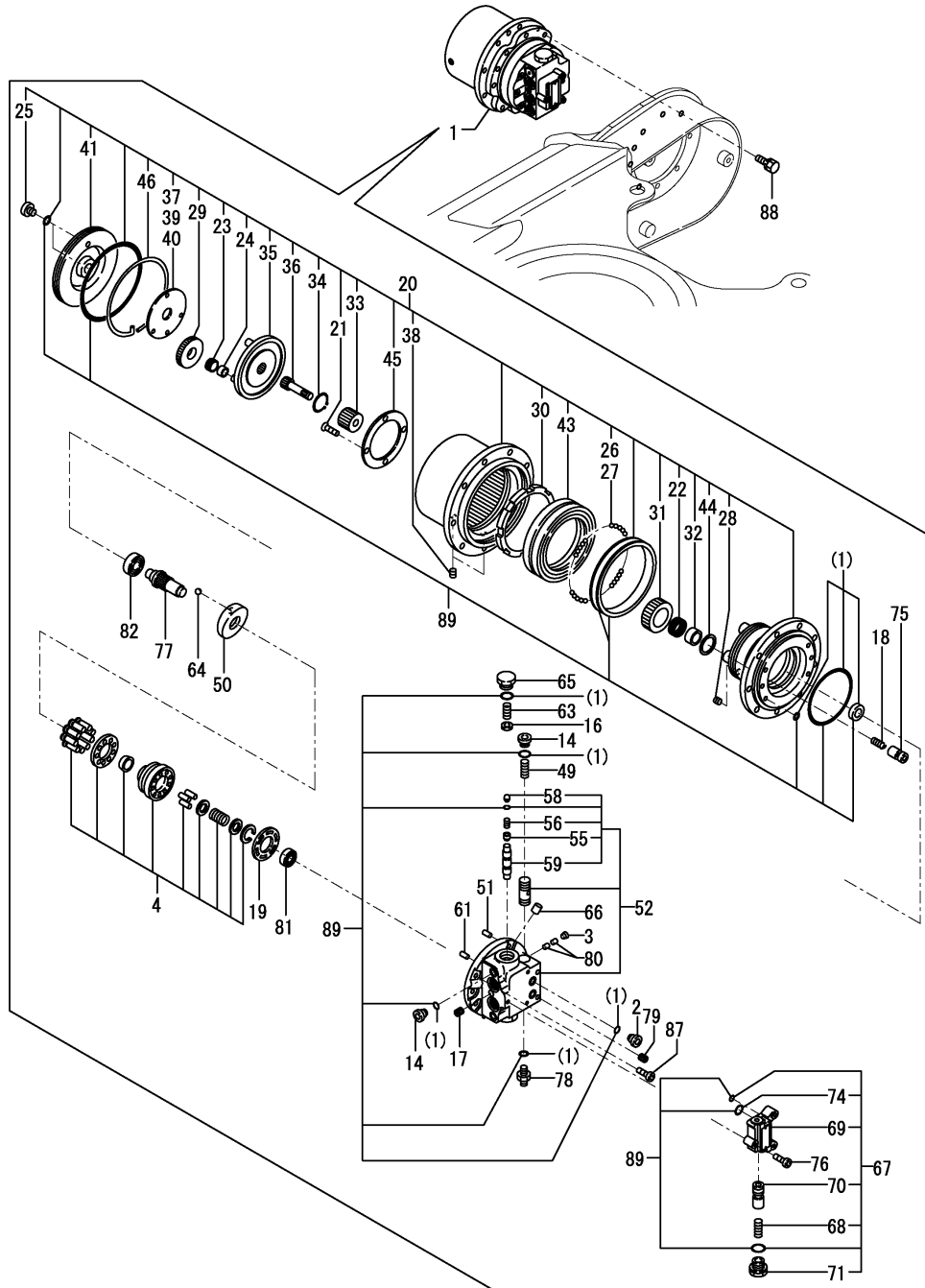
(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172956-72800-1	CYLINDER ASSY, HITCH	1							
2	2	172156-72400	NUT	1							
3	2	172956-72810-1	TUBE, HITCH	1							
5	3	172956-72880	BUSH (25-33-14.5	2							
6	2	172956-72830	ROD ASSY, HITCH	1							
7	3	172156-84440	BUSH 25X 35	1							
8	2	172956-72860	HEAD ASSY 45 25	1							
10	3	24550-025150	BUSH, 25X15	1							
11	2	172956-72890	PISTON 45 25	1							
12	2	172956-72900	SEAL SET, HEAD 45 25	1							
17	2	172956-72910	SEAL SET, PISTON	1							
20	2	172958-72950	O-RING	1							
21	2	172958-72960	O-RING	1							
22	2	172958-72981-1	CHECK VALVE (87)	1							
22-1	2	172958-72982-1	CHECK VALVE (87)	1							N
(A=M/#21915)											
23	2	23871-005000	PLUG, R005	2							
24	2	24761-020000	NIPPLE, GREASE PT1/8	1							
25	2	26450-060352	BOLT, M6X 35	4							

Fig.54. TRAVEL MOTOR



(A)=VIO20-2(US)

(B)=

(C)=

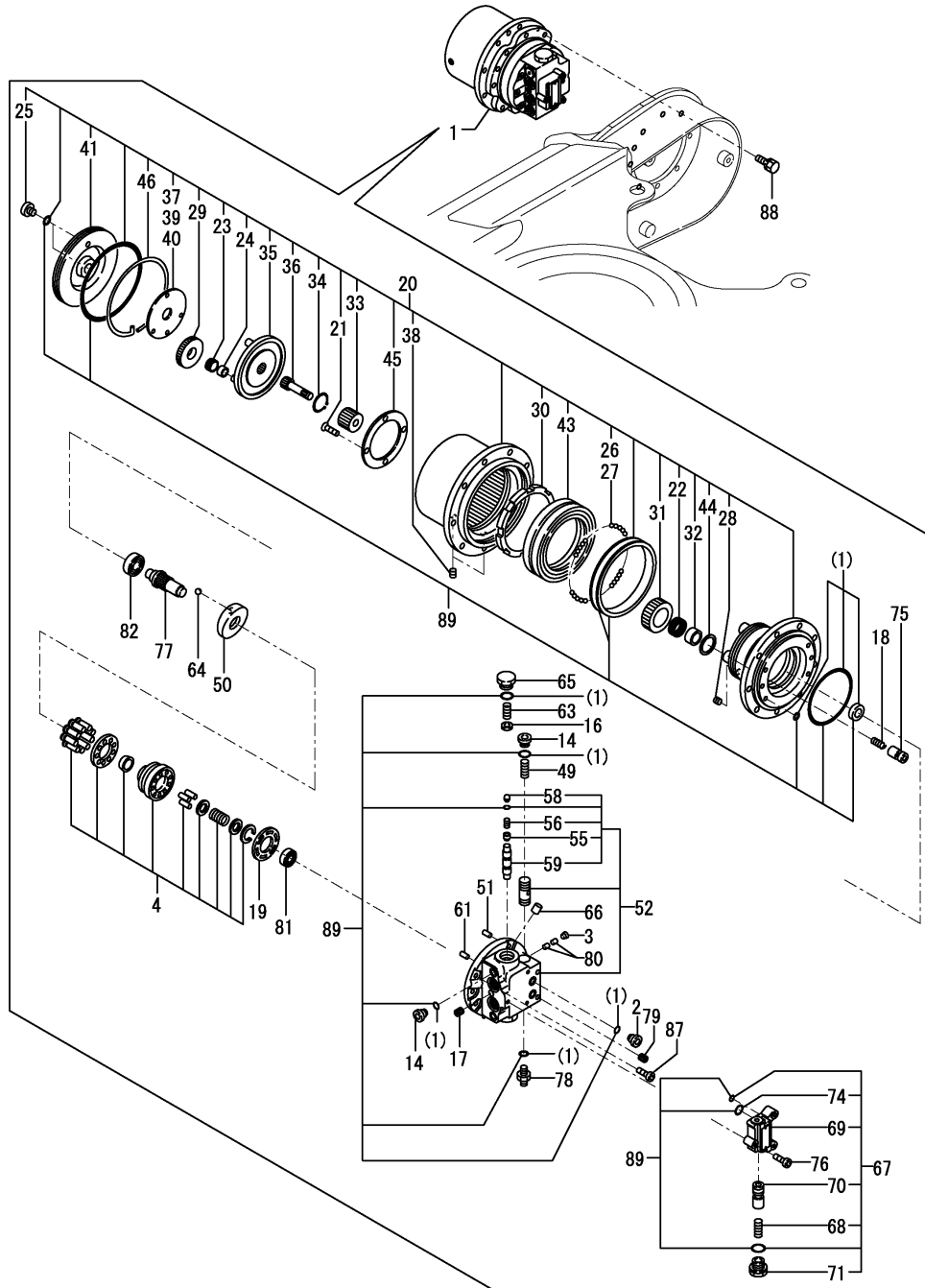
(D)=

(E)=

(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73300	MOTOR ASSY,TRAVEL	2							
2	2	1A6240-37360	PLUG	4							
3	2	172147-70220	PLUG	4							
4	2	172450-73620	CYLINDER BLOCK KIT	2							
14	3	172148-70301	PLUG	6							
16	3	172141-70450	SEAT, SPRING	4							
17	2	172162-70780	PLUG	2							
18	2	172168-71950	SPRING	4							
19	2	172638-73330	PLATE	2							
20	2	172456-73340	GEAR, REDUCTION	2							
21	3	172141-70110	SCREW	8							
22	3	172147-70120	GAUGE ASSY	8							
23	3	172141-70150	GAUGE, W/ROLLER	6							
24	3	172141-70160	RACE, INNER	6							
25	3	172148-70301	PLUG	4							
26	3	172122-70350	BALL	198							
27	3	172122-70350	BALL	20							
28	3	172450-73330	PLUG	4							
29	3	172421-73350	GEAR, PLANETARY	6							
30	3	172456-73350	NUT, RING	2							
31	3	172456-73360	GEAR, PLANETARY	8							
32	3	172456-73370	INNER RACE	8							
33	3	172456-73380	GEAR, SUN	2							
34	3	172456-73390	SNAP RING	2							
35	3	172456-73400	HOLDER	2							
36	3	172456-73410	GEAR, DRIVE	2							
37	3	172456-73420	THRUST PLATE	2							
38	3	172122-73430	PLUG	4							
39	3	172456-73430	THRUST PLATE	2							
40	3	172456-73440	THRUST PLATE	2							
41	3	172456-73450	COVER	2							
43	3	172183-73520	BEARING	2							
44	3	172183-73560	WASHER, THRUST	8							
45	3	172183-73570	PLATE, THRUST	2							
46	3	172183-73660	WIRE	2							
49	2	172421-73400	SPRING	2							
50	2	172456-73460	PLATE	2							
51	2	172122-73470	PIN	2							
52	2	172456-73330	BASE PLATE ASSY	2							
55	3	172141-70410	VALVE, CHECK	4							
56	3	172141-70420	SPRING	4							
58	3	172421-73380	PLUG	4							
59	3	172456-73490	SPOOL	2							
61	2	172122-73480	PIN	4							
63	2	172456-73500	SPRING	4							
64	2	172450-73510	BALL,STEEL	4							
65	2	172456-73510	CAP	4							
66	2	172456-73520	ORIFICE	4							
67	2	172456-73540	VALVE ASSY	2							
68	3	172148-71580	SPRING	4							
69	3	172456-73550	BODY, VALVE	2							

Fig.54. TRAVEL MOTOR



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
70	3	172456-73560	CHECK VALVE	4							
71	3	172183-73770	PLUG	4							
74	3	24315-000120	O-RING, 1BP12.0	2							
75	2	172450-73550	PISTON ASSY	4							
76	2	172456-73570	BOLT, SOCKET HEAD	6							
77	2	172183-73670	SHAFT	2							
78	2	172183-73780	PLUG	2							
79	2	172183-73870	PLUG	4							
80	2	172312-74790	ORIFICE	8							
81	2	24101-060024	BEARING, BALL 6002	2							
82	2	24101-060044	BEARING, BALL 6004	2							
87	2	26450-080202	BOLT, M8X 20	12							
88	1	26013-100252	BOLT, M10X 25	16							
89	1	172456-73320	SEAL SET	2							

Fig.55. TURNING MOTOR

(A)=VIO20-2(US)

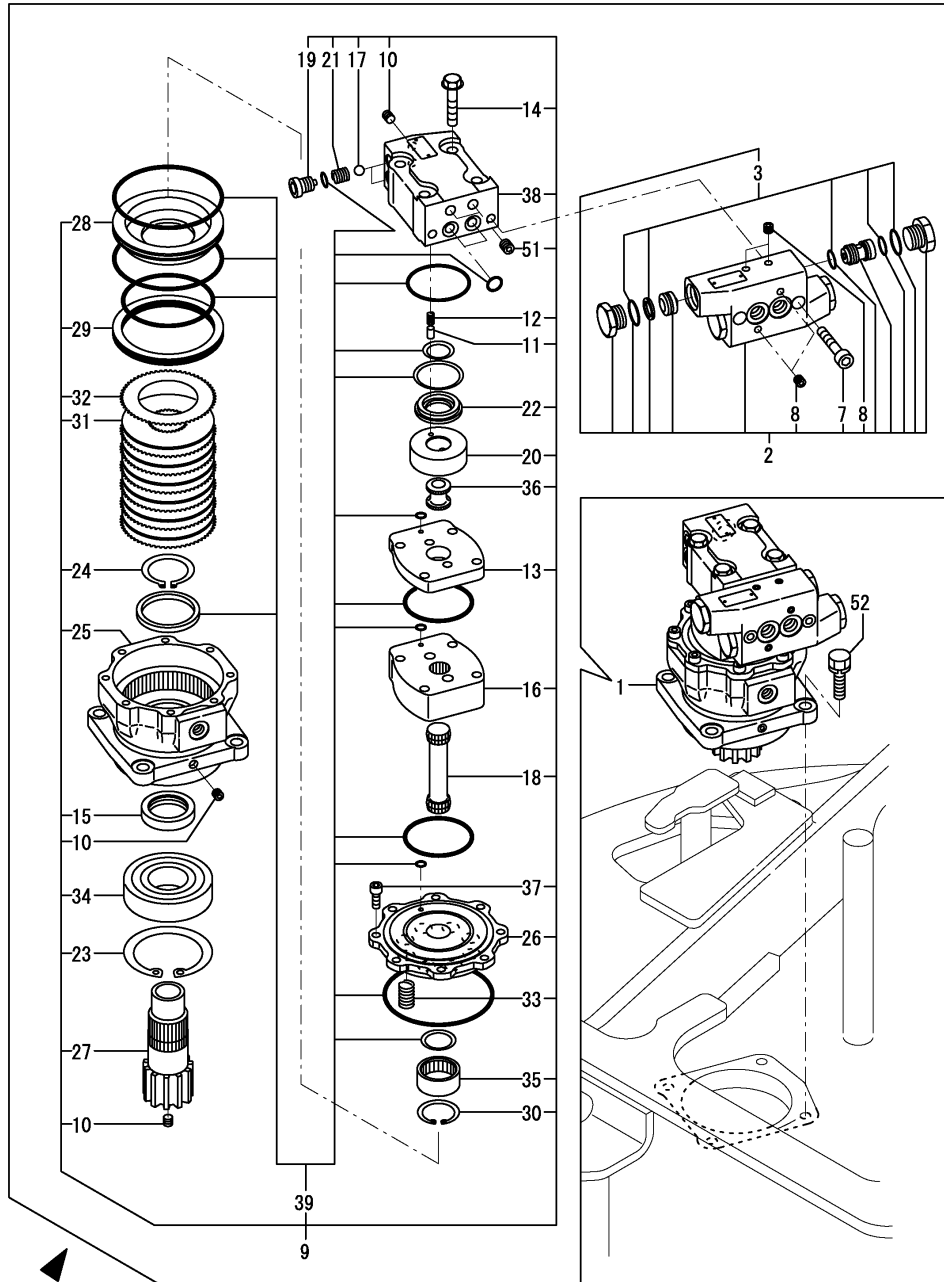
(B)=

(C)=

(D)=

(E)=

(F)=

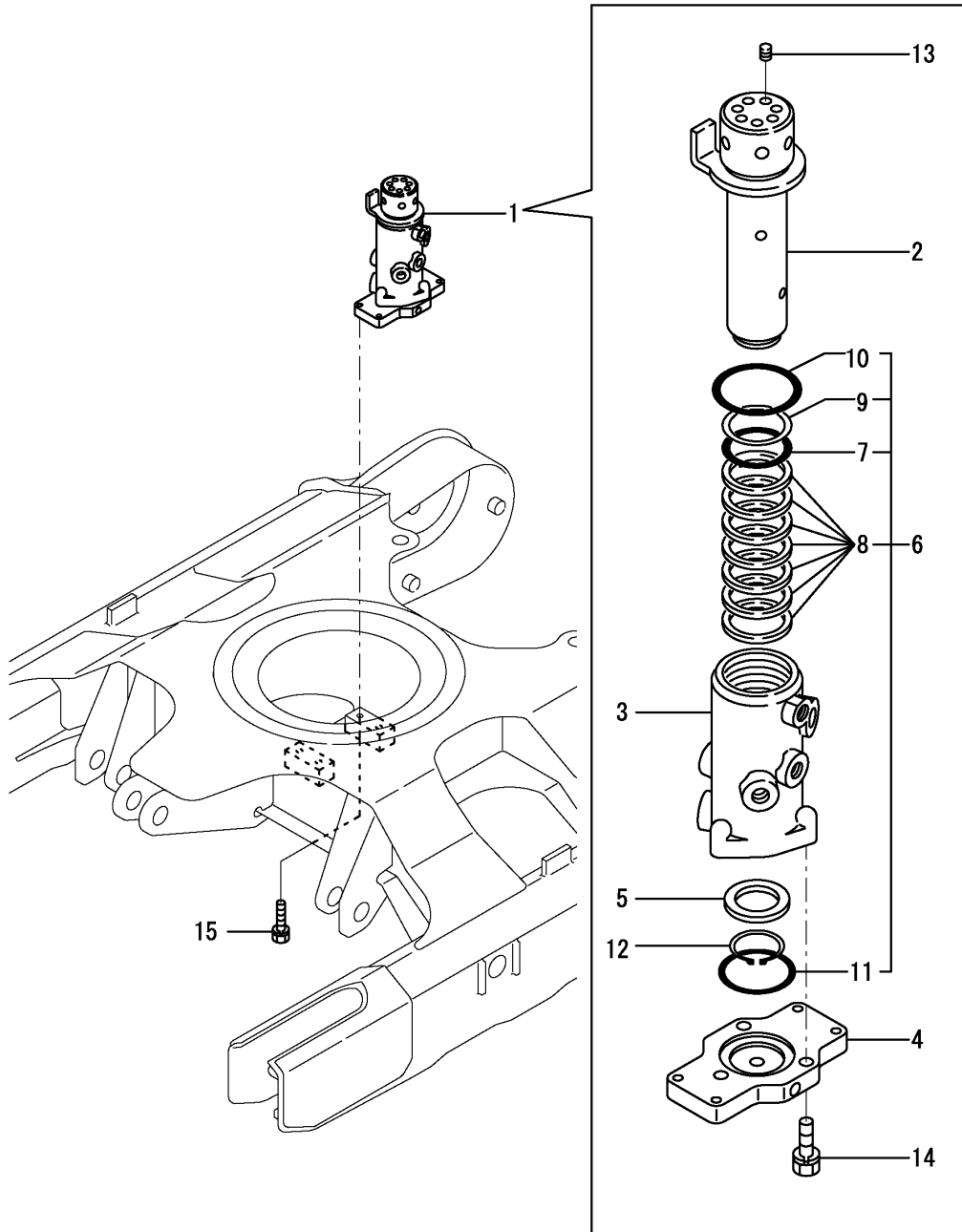


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73310	MOTOR, SWING	1							
2	2	172456-77100	VALVE	1							
3	3	172456-77110	SEAL SET, VALVE	1							
7	3	172456-77130	BOLT 6*65	2							
8	3	23871-010000	PLUG, R01	6							
9	2	172456-77140	MOTOR, SWING	1							
10	3	172137-70490	PLUG	4							
11	3	172137-70570	PIN	2							
12	3	172137-70580	SPRING	2							
13	3	172148-73350	PLATE, VALVE	1							
14	3	172173-73510	BOLT 12X40	4							
15	3	172173-73520	COLLAR	1							
16	3	172173-73570	GEROLLER	1							
17	3	172168-73580	BALL	2							
18	3	172173-73580	DRIVE	1							
19	3	172168-73590	PLUG	2							
20	3	172173-73590	HOLDER	1							
21	3	172168-73600	SPRING	2							
22	3	172173-73600	RING	1							
23	3	172173-73690	SNAP RING	1							
24	3	172173-73700	CIRCLIP	1							
25	3	172456-77150	HOUSING, BEARING	1							
26	3	172456-77160	FLANGE, MOUTING	1							
27	3	172456-77170	GEAR, PINION	1							
28	3	172456-77180	PISTON, HYDRAULIC	1							
29	3	172456-77190	RING	1							
30	3	172456-77200	CIRCLIP	1							
31	3	172456-77210	PLATE, FRICTION	6							
32	3	172456-77220	PLATE	7							
33	3	172456-77230	SPRING	8							
34	3	172456-77240	FRONT BEARING	1							
35	3	172456-77250	NEEDLE BEARING	1							
36	3	172141-77260	DRIVE, VALVE	1							
37	3	172456-77270	BOLT 6*65	8							
38	3	172456-77280	HOUSING, VALVE	1							
39	3	172456-77290	SEAL SET	1							
51	3	172141-77400	PLUG, BLIND	2							
52	1	26013-120402	BOLT, M12X 40	4							
53	1	172456-77050	KIT, TURNING MOTOR	1							

53

53 inc. No. 3, 39.

Fig.56. SWIVEL JOINT



(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-73802	JOINT ASSY, SWIVEL	1							
2	2	172444-73810	SHAFT ASSY, SWIVEL	1							
3	2	172444-73831	HUB, SWIVEL	1							
4	2	172444-73840	FLANGE, SWIVEL	1							
5	2	172137-73860	SPACER, SWIVEL	1							
6	2	172444-73880	SEAL SET, SWIVEL	1							
7	3	172142-73800	O-RING	1							
8	3	172458-73820	SEAL, SWIVEL	7							
9	3	172148-73870	RING EL, BACK UP	1							
10	3	24311-000750	O-RING, 1AP75.0	1							
11	3	24321-000700	O-RING, 1AG70.0	1							
12	2	22242-000451	RING, 45	1							
13	2	23871-020000	PLUG, R02	7							
14	2	26013-100352	BOLT, M10X 35	3							
15	1	26013-100402	BOLT, M10X 40	4							

Fig.57. CONTROL VALVE(1/6)

(A)=VIO20-2(US)

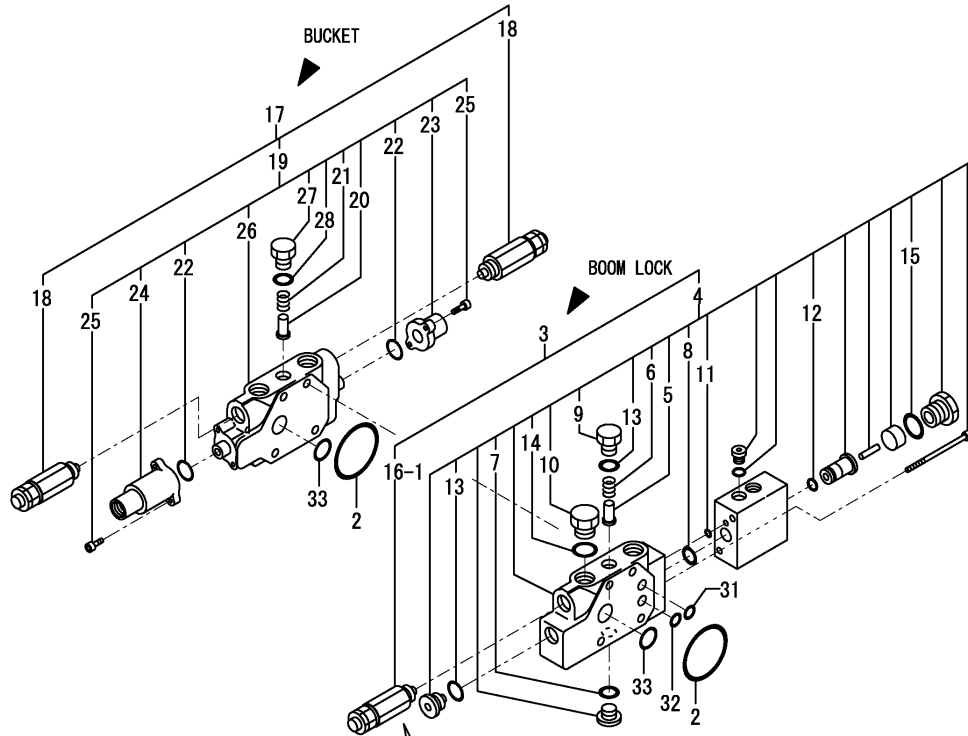
(B)=

(C)=

(D)=

(E)=

(F)=



CONTROL VALVE ASSY
172456-74100

Fig. 57 Ref. No. 1

INC. Fig. 57 Ref. No. 2~33.

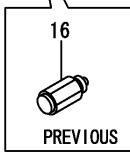
Fig. 58 Ref. No. 1~28.

Fig. 59 Ref. No. 1~25.

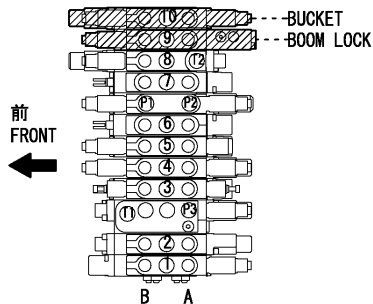
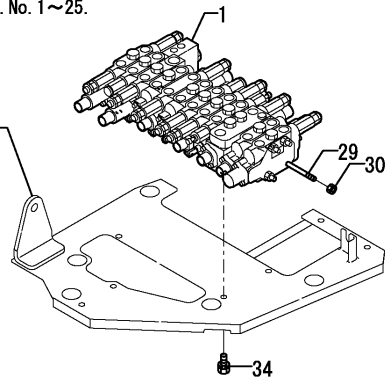
Fig. 60 Ref. No. 1~30.

Fig. 61 Ref. No. 1~34.

Fig. 62 Ref. No. 1~25.



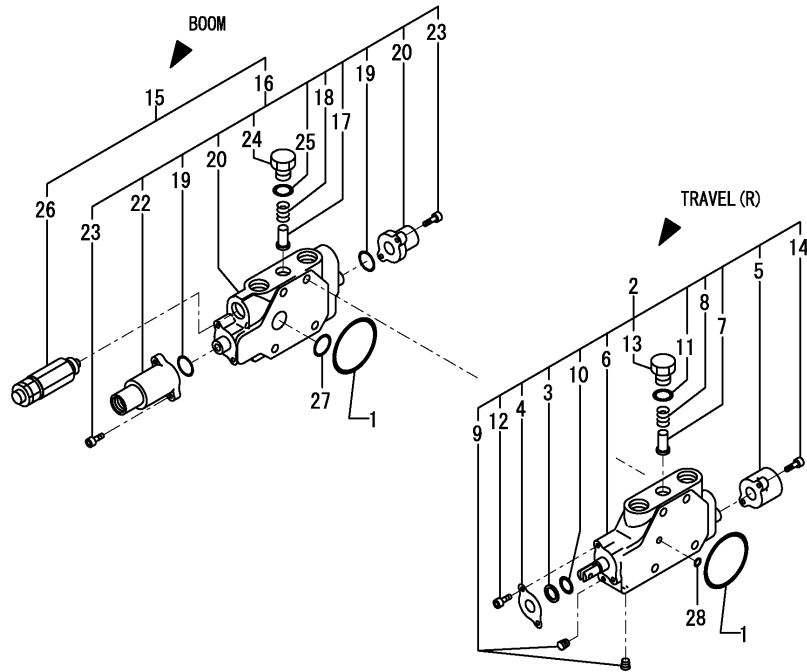
REFER TO Fig. 28



No.	Lev.	Parts No.	Description	(A)	(B)	Qty			I	R
						(C)	(D)	(E)	(F)	
1	1	172456-74100	VALVE ASSY, CONTROL	1						
1-1	1	172456-74101	VALVE ASSY, CONTROL	1						N
(A=*2004.04)										
2	2	172458-74720	O-RING	2						
3	2	172456-74380	SECTION, BOOM LOCK	1						
3-1	2	172456-74430	SECTION, BOOM LOCK	1						N
(A=*2004.04)										
4	3	172456-74260	BOOM LOCK ASSY	1						
5	4	172458-74290	VALVE, REVERSE	1						
6	4	172458-74360	SPRING, VALVE	1						
7	4	172456-74410	O-RING, 1B S 16.0	1						
8	4	172456-74420	O-RING, AS 1B17.0	1						
9	4	172458-74640	STAY, VALVE	1						
10	4	172458-74650	STAY, VALVE	1						
11	4	24311-000060	O-RING, 1AP6.0	1						
12	4	24315-000080	O-RING, 1BP8.0	2						
13	4	24315-000110	O-RING, 1BP11.0	2						
14	4	24315-000140	O-RING, 1BP14.0	1						
15	4	24315-000180	O-RING, 1BP18.0	1						
16	3	172447-74230	ANTI-CAVITATION	1						
16-1	3	172456-74440	VALVE, RELIEF	1						N
(A=*2004.04)										
17	2	172456-74390	SECTION, BUCKET	1						
18	3	172456-74280	VALVE ASSY, RELIEF 2	2						
19	3	172458-74610	SECTION ASSY, BUCKET	1						
20	4	172458-74150	VALVE, REVERSE	1						
21	4	172458-74160	SPRING, VALVE	1						
22	4	172458-74230	O-RING	2						
23	4	172458-74240	COVER, PILOT	1						
24	4	172458-74250	COVER, PILOT	1						
25	4	172458-74260	SWP HEX.BOLT 5X20	4						
26	4	172458-74620	SPOOL ASSY, BUCKET	1						
27	4	172458-74630	STAY, VALVE	1						
28	4	24315-000110	O-RING, 1BP11.0	1						
29	2	172458-74730	BOLT L380	4						
30	2	26716-080002	NUT, M8	4						
31	2	24315-000090	O-RING, 1BP9.0	1						
32	2	24315-000100	O-RING, 1BP10.0	1						
33	2	24311-000180	O-RING, 1AP18.0	2						
34	1	26013-100162	BOLT, M10X 16	3						

Fig.58. CONTROL VALVE(2/6)

CONTROL VALVE ASSY
 172456-74100
 Fig. 57 Ref. No. 1
 INC. Fig. 57 Ref. No. 2~33.
 Fig. 58 Ref. No. 1~28.
 Fig. 59 Ref. No. 1~25.
 Fig. 60 Ref. No. 1~30.
 Fig. 61 Ref. No. 1~34.
 Fig. 62 Ref. No. 1~25.



(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-74720	O-RING	2							
2	2	172456-74190	SECTION ASSY, TRAVEL	1							
3	3	172458-74130	DUST WIPER	1							
4	3	172458-74140	RETAINER, SEAL	1							
5	3	172458-74170	CAP, SPRING	1							
6	3	172456-74230	SPOOL ASSY, TRAVEL	1							
7	3	172458-74290	VALVE, REVERSE	1							
8	3	172458-74360	SPRING, VALVE	1							
9	3	172458-74460	PLUG GPM1/32	2							
10	3	24311-000120	O-RING, 1AP12.0	1							
11	3	24315-000110	O-RING, 1BP11.0	1							
12	3	26450-050102	BOLT, M5X 10	2							
13	3	172458-74640	STAY, VALVE	1							
14	3	26450-050182	BOLT, M5X 18	2							
15	2	172456-74370	SECTION, BOOM	1							
16	3	172456-74240	SECTION ASSY, BOOM	1							
17	4	172458-74150	VALVE, REVERSE	1							
18	4	172458-74160	SPRING, VALVE	1							
19	4	172458-74230	O-RING	2							
20	4	172458-74240	COVER, PILOT	1							
22	4	172458-74250	COVER, PILOT	1							
23	4	172458-74260	SWP HEX.BOLT 5X20	4							
24	4	172458-74630	STAY, VALVE	1							
25	4	24315-000110	O-RING, 1BP11.0	1							
26	3	172456-74280	VALVE ASSY, RELIEF 2	1							
27	2	24311-000180	O-RING, 1AP18.0	1							
28	2	24311-000060	O-RING, 1AP6.0	2							

Fig.59. CONTROL VALVE(3/6)

CONTROL VALVE ASSY
 172456-74100
 Fig. 57 Ref. No. 1
 INC. Fig. 57 Ref. No. 2~33.
 Fig. 58 Ref. No. 1~28.
 Fig. 59 Ref. No. 1~25.
 Fig. 60 Ref. No. 1~30.
 Fig. 61 Ref. No. 1~34.
 Fig. 62 Ref. No. 1~25.

(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-74720	O-RING	2							
2	2	172456-74170	SECTION ASSY, TRAVEL	1							
3	3	172458-74130	DUST WIPER	1							
4	3	172458-74140	RETAINER, SEAL	1							
5	3	172458-74170	CAP, SPRING	1							
6	3	172456-74180	SPOOL ASSY, TRAVEL	1							
7	3	172458-74290	VALVE, REVERSE	1							
8	3	172458-74360	SPRING, VALVE	1							
9	3	172458-74460	PLUG GPM1/32	2							
10	3	172458-74640	STAY, VALVE	1							
11	3	24311-000120	O-RING, 1AP12.0	1							
12	3	24315-000110	O-RING, 1BP11.0	1							
13	3	26450-050102	BOLT, M5X 10	2							
14	3	26450-050182	BOLT, M5X 18	2							
15	2	172456-74350	VALVE, CNTROL INLLET	1							
16	3	172456-74400	VALVE, RELIEF 210/20	2							
17	3	172458-74520	SECTION ASSY	1							
18	4	172458-74230	O-RING	2							
19	4	172458-74240	COVER, PILOT	1							
20	4	172458-74260	SWP HEX.BOLT 5X20	4							
21	4	172458-74530	SEAT, SPRING	1							
22	4	172458-74540	SPRING, RETURN	1							
23	4	172458-74550	COVER, PILOT	1							
24	2	24311-000060	O-RING, 1AP6.0	2							
25	2	24311-000180	O-RING, 1AP18.0	1							

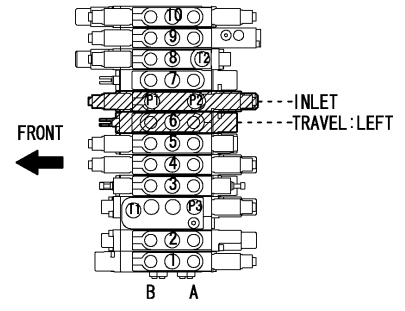
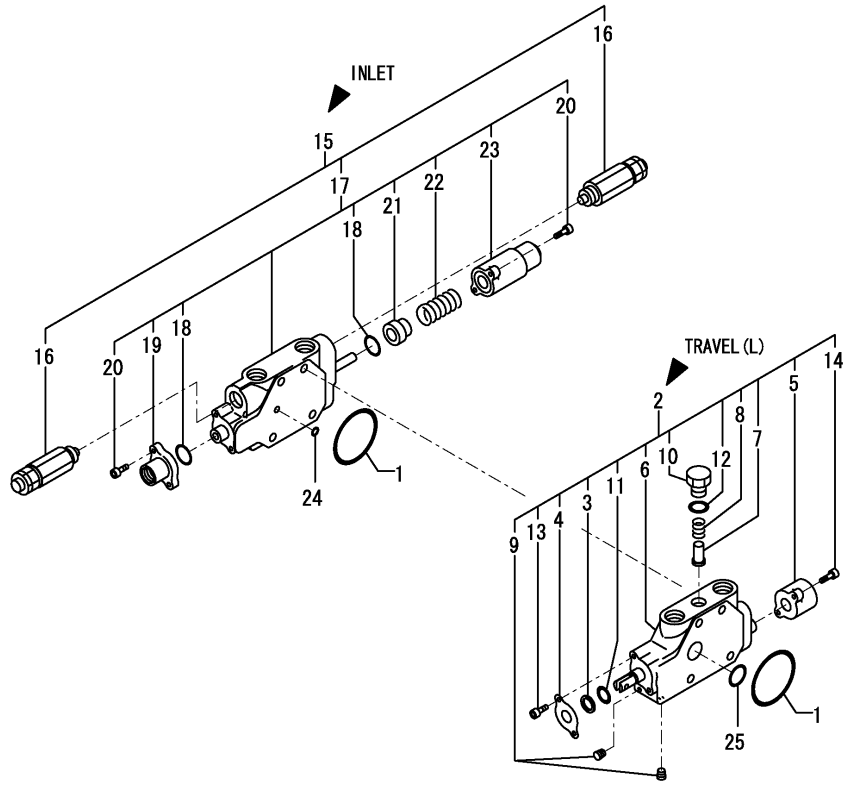
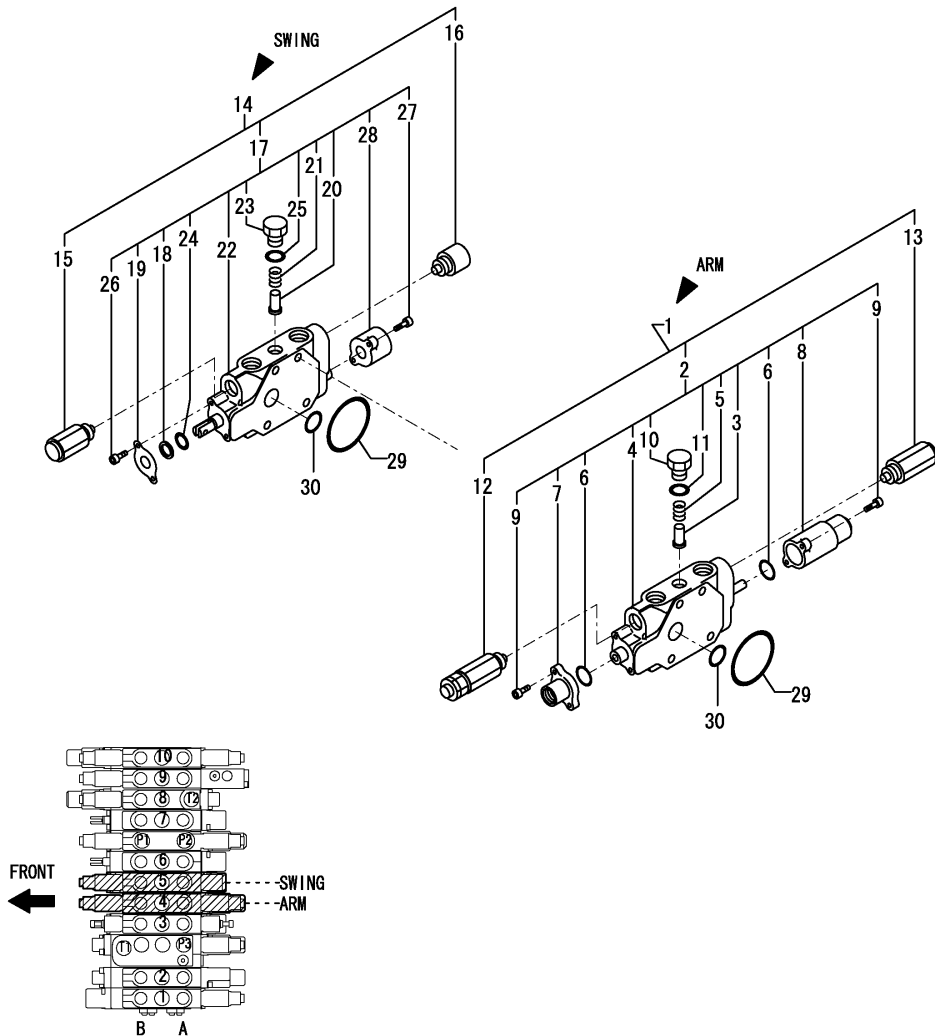


Fig.60. CONTROL VALVE(4/6)

CONTROL VALVE ASSY
172456-74100
Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~33.
Fig. 58 Ref. No. 1~28.
Fig. 59 Ref. No. 1~25.
Fig. 60 Ref. No. 1~30.
Fig. 61 Ref. No. 1~34.
Fig. 62 Ref. No. 1~25.



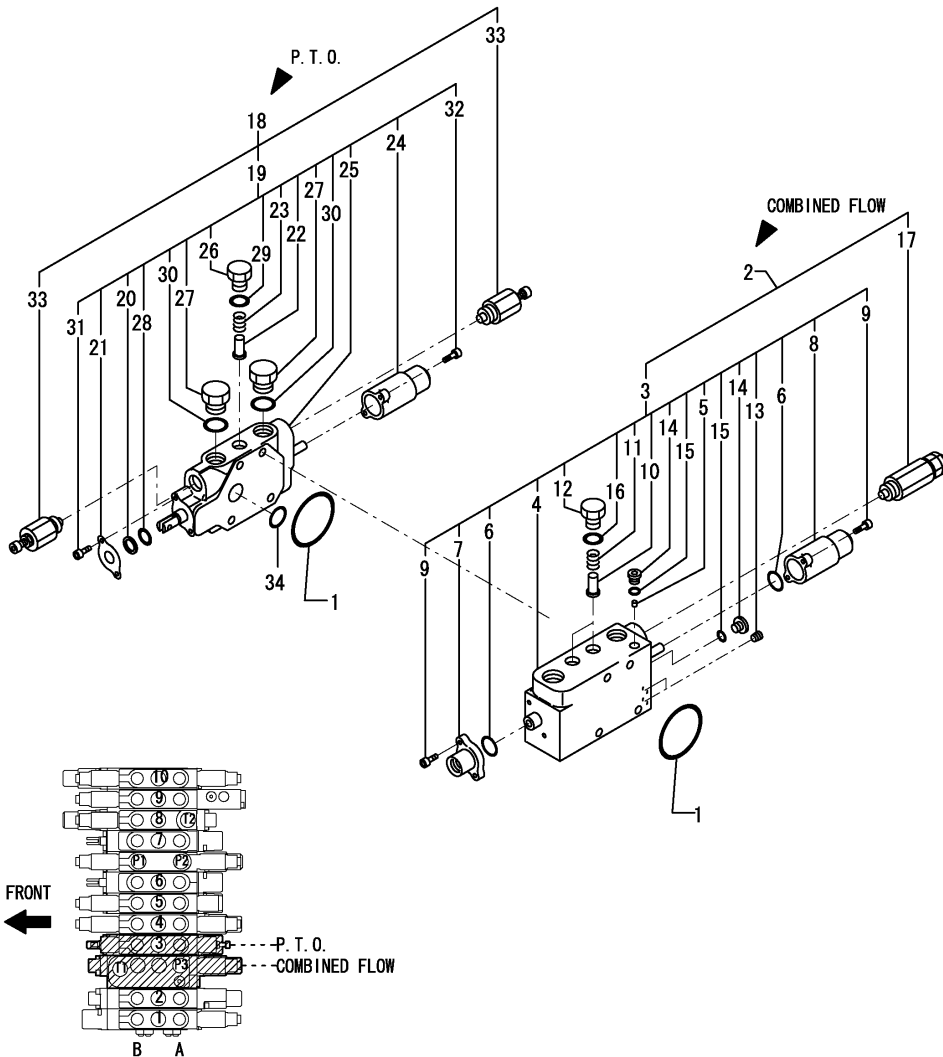
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74320	SECTION, ARM	1							
2	3	172456-74150	SECTION ASSY, ARM	1							
3	4	172458-74150	VALVE, REVERSE	1							
4	4	172456-74160	SPOOL ASSY, ARM	1							
5	4	172458-74160	SPRING, VALVE	1							
6	3	172458-74230	O-RING	2							
7	4	172458-74240	COVER, PILOT	1							
8	4	172458-74250	COVER, PILOT	1							
9	4	172458-74260	SWP HEX.BOLT 5X20	4							
10	4	172458-74630	STAY, VALVE	1							
11	4	24315-000110	O-RING, 1BP11.0	1							
12	3	172447-74221	PORT RELIFE VALVE	1							
13	3	172447-74230	ANTI-CAVITATION	1							
14	2	172456-74330	SECTION, SWING	1							
15	3	172447-74230	ANTI-CAVITATION	1							
16	3	172456-74290	RELIEF VALVE PLUG	1							
17	3	172458-74420	SECTION ASSY, SWING	1							
18	4	172458-74130	DUST WIPER	1							
19	4	172458-74140	RETAINER, SEAL	1							
20	4	172458-74150	VALVE, REVERSE	1							
21	4	172458-74160	SPRING, VALVE	1							
22	4	172458-74430	SPOOL ASSY, SWING	1							
23	4	172458-74630	STAY, VALVE	1							
24	4	24311-000120	O-RING, 1AP12.0	1							
25	4	24315-000110	O-RING, 1BP11.0	1							
26	4	26450-050102	BOLT, M5X 10	2							
27	4	26450-050182	BOLT, M5X 18	2							
28	4	172458-74170	CAP, SPRING	1							
29	2	172458-74720	O-RING	2							
30	2	24311-000180	O-RING, 1AP18.0	2							

Fig.61. CONTROL VALVE(5/6)

CONTROL VALVE ASSY
172456-74100
Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~33.
Fig. 58 Ref. No. 1~28.
Fig. 59 Ref. No. 1~25.
Fig. 60 Ref. No. 1~30.
Fig. 61 Ref. No. 1~34.
Fig. 62 Ref. No. 1~25.



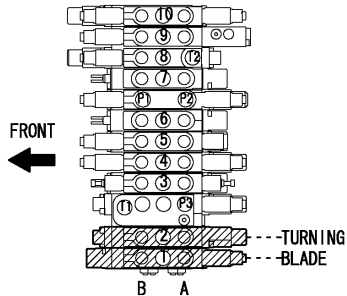
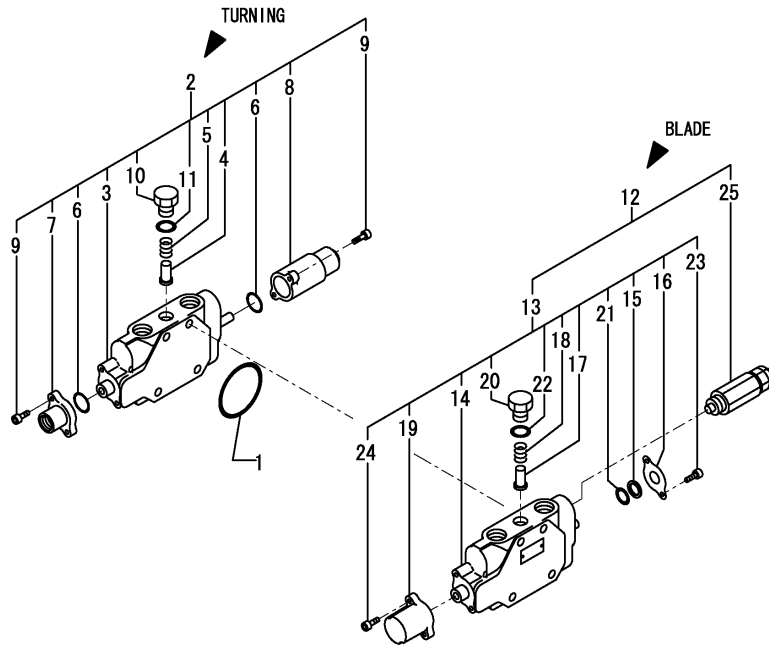
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-74720	O-RING	2							
2	2	172456-74310	SECTION, CONFLUENE	1							
3	3	172456-74130	SECTION ASSY	1							
4	4	172456-74140	SPOOL ASSY	1							
5	4	172457-74190	LIMITTER, M6 0.9	1							
6	4	172458-74230	O-RING	2							
7	4	172458-74240	COVER, PILOT	1							
8	4	172458-74250	COVER, PILOT	1							
9	4	172458-74260	SWP HEX.BOLT 5X20	4							
10	4	172458-74290	VALVE, REVERSE	2							
11	4	172458-74360	SPRING, VALVE	2							
12	4	172458-74640	STAY, VALVE	2							
13	4	172458-74660	PLUG NPT1/16,SCREW	2							
14	4	172458-74670	PLUG,PF1/8	2							
15	4	24315-000080	O-RING, 1BP8.0	2							
16	4	24315-000110	O-RING, 1BP11.0	2							
17	3	172456-74270	VALVE, RELIEF 170/20	1							
18	2	172458-74780	SECTION, PTO	1							
19	3	172458-74380	SECTION ASSY, PTO	1							
20	4	172458-74130	DUST WIPER	1							
21	4	172458-74140	RETAINER, SEAL	1							
22	4	172458-74150	VALVE, REVERSE	1							
23	4	172458-74160	SPRING, VALVE	1							
24	4	172458-74170	CAP, SPRING	1							
25	4	172458-74390	SPOOL ASSY, PTO	1							
26	4	172458-74630	STAY, VALVE	1							
27	4	172458-74650	STAY, VALVE	2							
28	4	24311-000120	O-RING, 1AP12.0	1							
29	4	24315-000110	O-RING, 1BP11.0	1							
30	4	24315-000140	O-RING, 1BP14.0	2							
31	4	26450-050102	BOLT, M5X 10	2							
32	4	26450-050182	BOLT, M5X 18	2							
33	3	172458-74740	SHUT OFF VALVE	2							
34	2	24311-000180	O-RING, 1AP18.0	1							

Fig.62. CONTROL VALVE(6/6)

CONTROL VALVE ASSY
 172456-74100
 Fig. 57 Ref. No. 1
 INC. Fig. 57 Ref. No. 2~33.
 Fig. 58 Ref. No. 1~28.
 Fig. 59 Ref. No. 1~25.
 Fig. 60 Ref. No. 1~30.
 Fig. 61 Ref. No. 1~34.
 Fig. 62 Ref. No. 1~25.



(A)=VIO20-2(US)
 (B)=
 (C)=

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

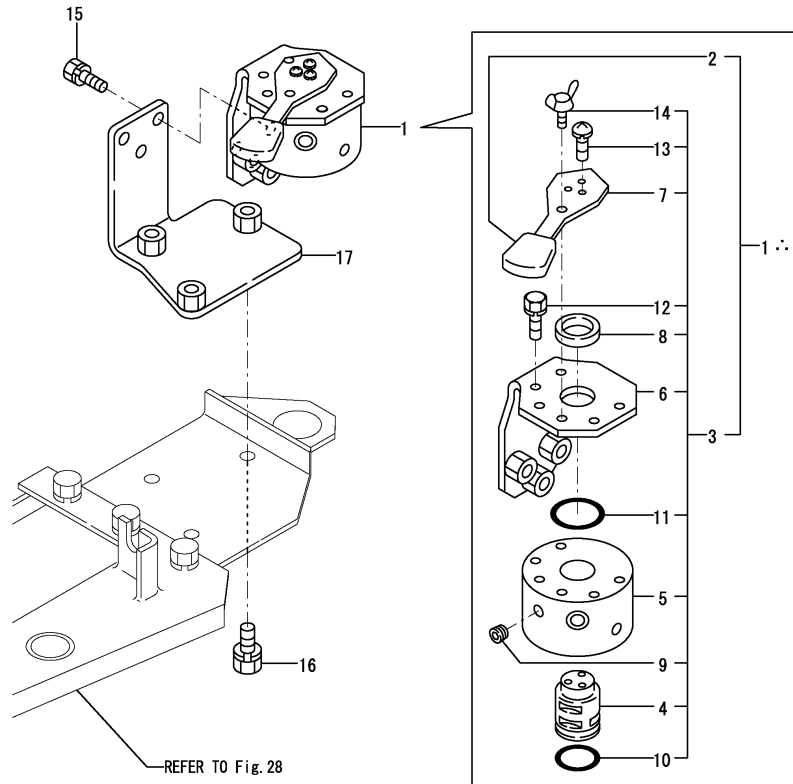
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172458-74720	O-RING	1							
2	2	172456-74110	SECTION ASSY	1							
3	3	172456-74120	SPOOL ASSY, SWING	1							
4	3	172458-74150	VALVE, REVERSE	1							
5	3	172458-74160	SPRING, VALVE	1							
6	3	172458-74230	O-RING	2							
7	3	172458-74240	COVER, PILOT	1							
8	3	172458-74250	COVER, PILOT	1							
9	3	172458-74260	SWP HEX.BOLT 5X20	4							
10	3	172458-74630	STAY, VALVE	1							
11	3	24315-000110	O-RING, 1BP11.0	1							
12	2	172458-74750	SECTION, BLADE	1							
13	3	172458-74110	SECTION ASSY, BLADE	1							
14	4	172458-74120	SPOOL ASSY, BLADE	1							
15	4	172458-74130	DUST WIPER	1							
16	4	172458-74140	RETAINER, SEAL	1							
17	4	172458-74150	VALVE, REVERSE	1							
18	4	172458-74160	SPRING, VALVE	1							
19	4	172458-74170	CAP, SPRING	1							
20	4	172458-74630	STAY, VALVE	1							
21	4	24311-000120	O-RING, 1AP12.0	1							
22	4	24315-000110	O-RING, 1BP11.0	1							
23	4	26450-050102	BOLT, M5X 10	2							
24	4	26450-050182	BOLT, M5X 18	2							
25	3	172458-74700	VALVE, RELIEF	1							

Fig.63. 2-WAY VALVE

(A)=VIO20-2(US)
(B)=
(C)=

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

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PUBLISHED: 2007/06



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172437-74690 (A=XXX)	VALVE ASSY,2WAY	1							W
2	2	194273-47910	KNOB, LEVER	1							
3	2	172437-74701	VALVE ASSY,2WAY	1							
4	3	172437-74711	SHAFT	1							
5	3	172437-74720	BLOCK,VALVE	1							
6	3	172437-74731	STAY ASSY	1							1
6-1	3	172437-74732 (A=*2004.04)	STAY ASSY	1							N
7	3	172437-74750	LEVER	1							
8	3	22137-240000	WASHER, 24	1							
9	3	23871-010000	PLUG, R01	4							
10	3	24311-000250	O-RING, 1AP25.0	1							
11	3	24311-000320	O-RING, 1AP32.0	1							
12	3	26013-060162	BOLT, M6X 16	4							
13	3	26022-050122	SCREW, M5X12	3							
14	3	26647-060202	BOLT, WING M6X20	1							
15	1	26013-080252	BOLT, M8X 25	3							
16	1	26013-100202	BOLT, M10X 20	3							
17	1	172472-74200	BRACKET,2-WAY	1							
18A	1	172437-03610	LABEL	1							2
18B	1	172437-03620	LABEL	1							2

.: MARKED PART HAS BEEN CHANGED (ADDED).

Remarks
(1) PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO. 17A, 17B
(2) LABELS ARE NOT ILLUSTRATED.

Fig.64. REMOTE CONTROL VALVE

(A)=VIO20-2(US)

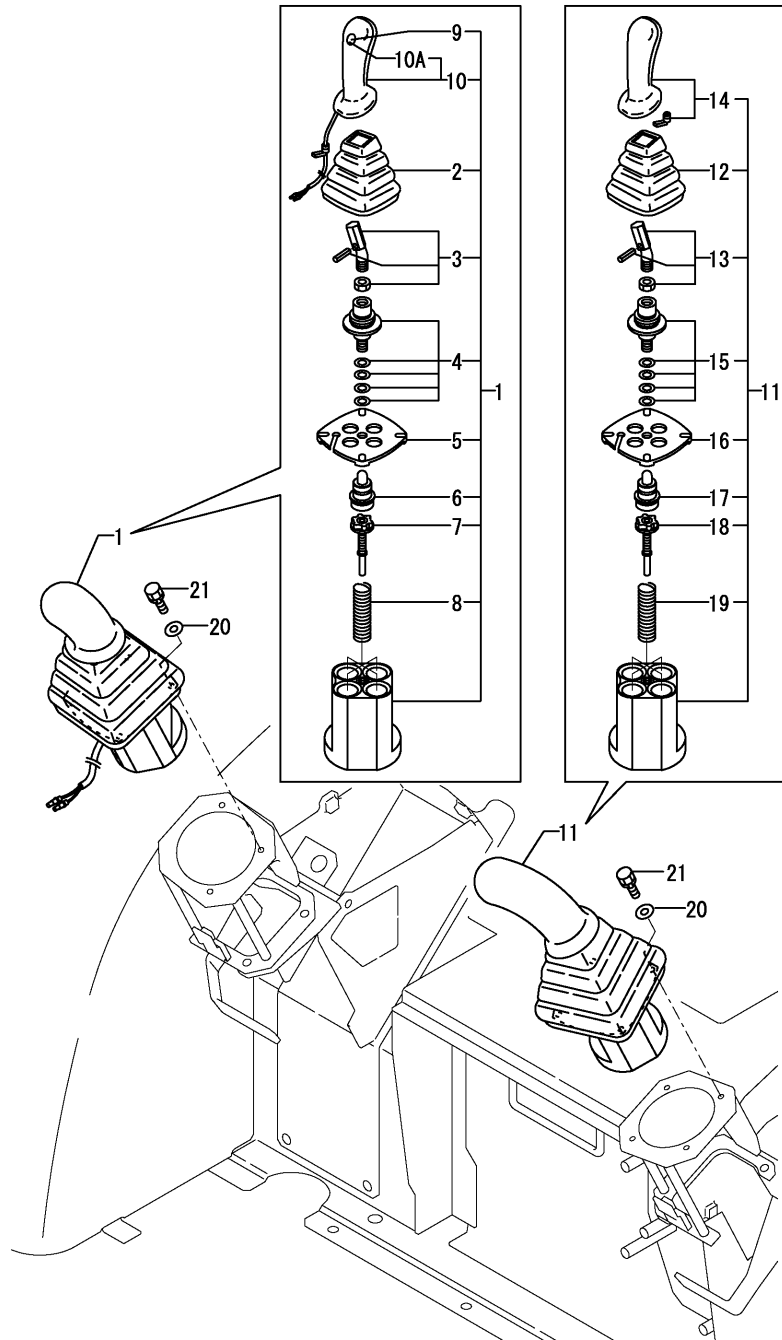
(B)=

(C)=

(D)=

(E)=

(F)=

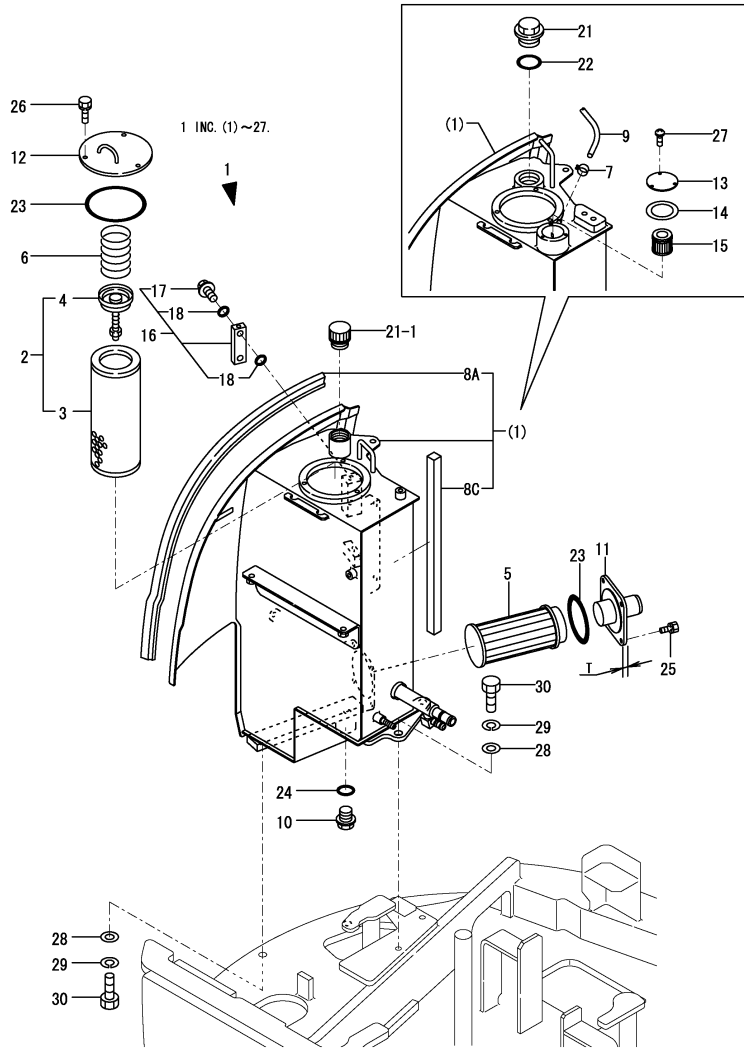


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172463-74510	VALVE ASSY,R US	1							
1-1	1	172463-74511	VALVE ASSY, R.US	1							N
		(A=M/#21426)									
2	2	172441-74030	BELLOWS	1							W
		(A=M/#21426)									
3	2	172441-74040	COMMAND KIT	1							W
		(A=M/#21426)									
4	2	172463-74530	CARDAN KIT	1							W
		(A=M/#21426)									
5	2	172463-74540	RETAINING PLATE	1							W
		(A=M/#21426)									
6	2	172463-74551	PLUNGER KIT	1							W
		(A=M/#21426)									
7	2	172463-74561	REGULATION KIT	4							W
		(A=M/#21426)									
8	2	172463-74570	SPRING KIT	1							W
		(A=M/#21426)									
9	2	172463-74580	SWITCH, BUTTON	1							W
		(A=M/#21426)									
9-1	2	172463-74580	SWITCH, BUTTON	1							Z
		(A=M/#20907)									
10	2	172463-74590	HANDLE R	1							W
		(A=M/#21426)									
10A	3	172463-74580	SWITCH, BUTTON	1							W
		(A=M/#20907)									
11	1	172463-74520	VALVE ASSY,L US	1							
11-1	1	172463-74521	VALVE ASSY, L.US	1							N
		(A=M/#21426)									
12	2	172441-74030	BELLOWS	1							W
		(A=M/#21426)									
13	2	172441-74040	COMMAND KIT	1							W
		(A=M/#21426)									
14	2	172441-74050	HANDLE L	1							W
		(A=M/#21426)									
15	2	172463-74530	CARDAN KIT	1							W
		(A=M/#21426)									
16	2	172463-74540	RETAINING PLATE	1							W
		(A=M/#21426)									
17	2	172463-74551	PLUNGER KIT	1							W
		(A=M/#21426)									
18	2	172463-74561	REGULATION KIT	4							W
		(A=M/#21426)									
19	2	172463-74570	SPRING KIT	1							W
		(A=M/#21426)									
20	1	22137-060000	WASHER, 6	8							W
		(A=M/#21426)									
21	1	26013-060162	BOLT, M6X 16	8							
21-1	1	26013-060202	BOLT, M6X 20	8							N
		(A=M/#21426)									

Fig.65. HYD.OIL TANK

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-75090-1	TANK ASSY, RESERVOIR	1							1
1-1	1	772456-75091-1	TANK ASSY, RESERVOIR	1							R
(A=M/#21764)											
1-2	1	772456-75092	TANK ASSY, RESERVOIR	1							N
(A=M/#22514)											
2	2	172175-73700	FILTER ASSY, RETURN	1							
3	3	172175-73710	ELEMENT, FILTER	1							
4	3	172141-73770	VALVE ASSY, BYPASS	1							
5	2	172146-73730	FILTER, SUCTION	1							
6	2	933152-02710	SPRING, CLUTCH	1							
7	2	124766-59050	CLIP, HOSE 12	1							Z
(A=M/#21764)											
8A	3	172455-65490	RUBBER, SEAL 1100	1							W
(A=M/#20907)											
8A-1	3	172168-65750	RUBBER, SEAL	1							R
(A=M/#21697)											
8C	3	172456-75390	SEAL, RADIATOR	1							W
(A=M/#21764)											
9	2	172455-75320	HOSE	1							Z
(A=M/#21764)											
10	2	172455-75330	DRAIN PLIG 24	1							
11	2	172183-75410	FLANGE,SUCTION (ZN)	1							
11-1	2	172A46-75500	FRANGE, SUCTION	1							F 4
(A=MZZZZZ)											
12	2	172141-75430	COVER, INTAKE	1							
12-1	2	172141-75440	COVER, INTAKE	1							R
(A=M/#21764)											
12-2	2	172460-75410	COVER, TANK	1							R
(A=M/#21697)											
13	2	172165-75450	PLATE (YELLOW:87)	1							Z
(A=M/#21764)											
13-1	2	172A46-75500	FRANGE, SUCTION	1							R 1
(A=MZZZZZ)											
14	2	172165-75460	GASKET	1							Z
(A=M/#21764)											
15	2	172165-75481	ELEMENT	1							Z
(A=M/#21764)											
16	2	172447-75600	GAUGE ASSY	1							
17	3	172455-75290	BOLT M10	2							
18	3	172455-75300	O-RING	4							
21	2	172116-75850	PLUG, OIL FEED	1							
21-1	2	172446-75250	CAP, RESERVER	1							S
(A=M/#21764)											
22	2	24311-000380	O-RING, 1AP38.0	1							Z
(A=M/#21764)											
22-1	2	26014-080252	BOLT, M8X 25	4							S
(A=MZZZZZ)											
23	2	24321-001050	O-RING, 1AG105.0	2							
24	2	24341-000300	O-RING, 1AS30.0	1							
25	2	26013-080162	BOLT, M8X 16	4							
25-1	2	26014-080252	BOLT, M8X 25	4							S

Remarks

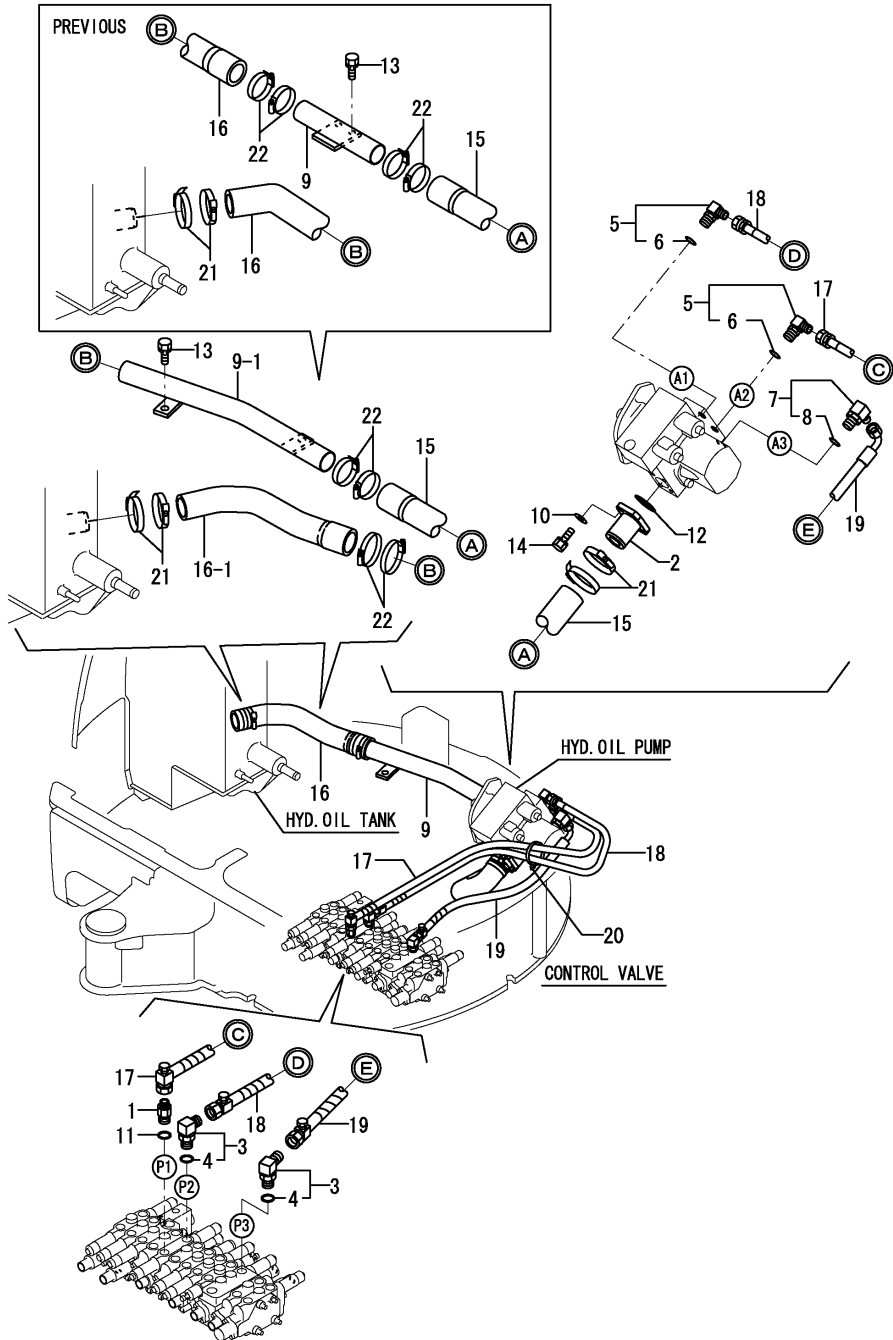
(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.31A,31C

(2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME. REF.NO.31B

(3)LABELS ARE NOT ILLUSTRATED.

(4)T=REF.NO.11 6MM, NO.11-1 12MM. INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.25-1.

Fig.66. HYD.OIL PIPING(TANK - PUMP - CONTROL V.)

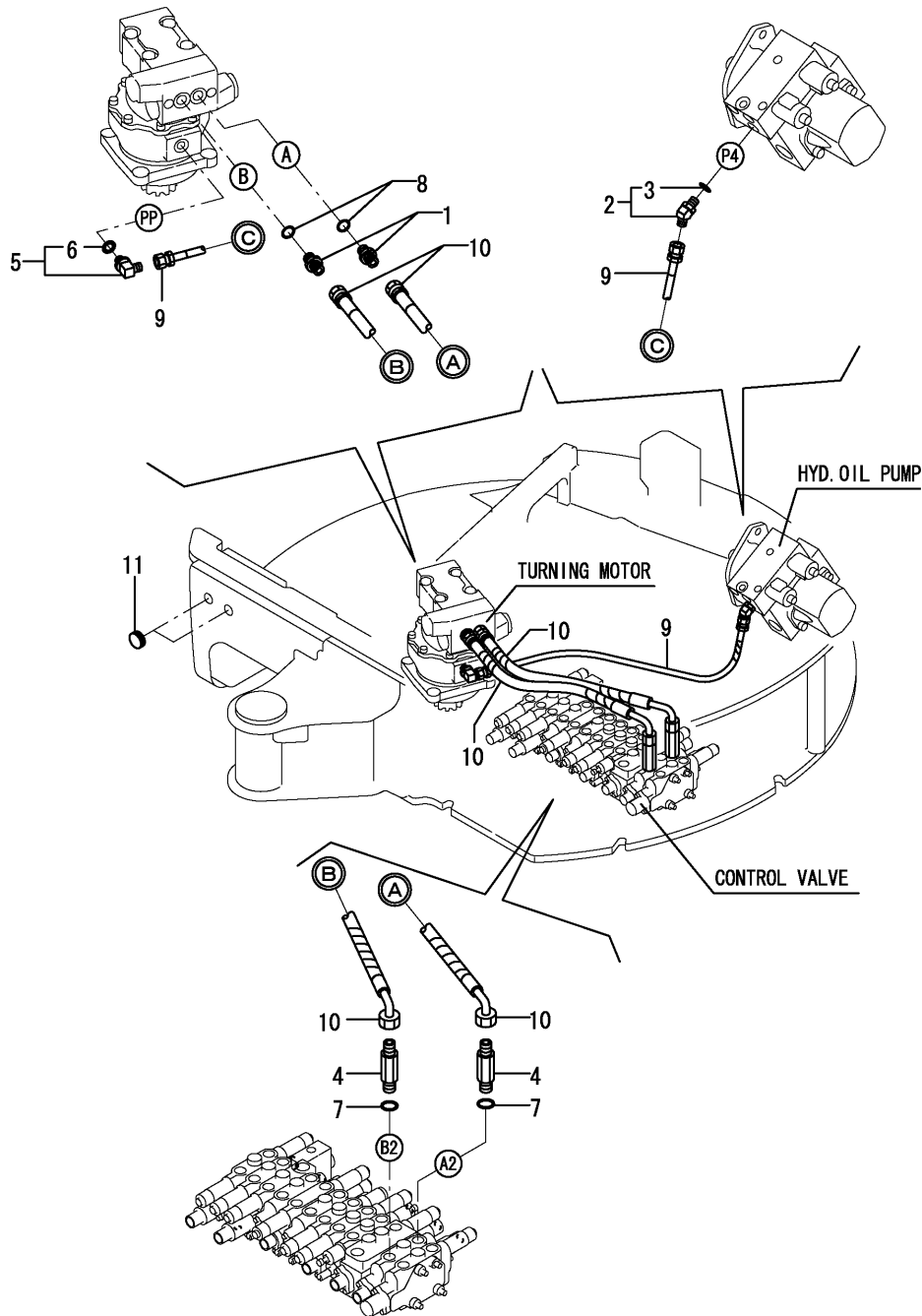


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	1							
2	1	172422-76100	FLANGE	1							
3	1	172142-76181	JOINT ASSY	2							
4	2	24315-000140	O-RING, 1BP14.0	2							
5	1	172142-76181	JOINT ASSY	2							
6	2	24315-000140	O-RING, 1BP14.0	2							
7	1	172157-76300	ELBOW ASSY	1							
8	2	24315-000180	O-RING, 1BP18.0	1							
9	1	172444-76400	TUBE ASSY, SUCTION	1							
9-1	1	172487-76410	TUBE ASSY, SUCTION	1							S
		(A=M/#21694)									
10	1	22117-100000	WASHER, 10	4							
11	1	24315-000140	O-RING, 1BP14.0	1							
12	1	24321-000400	O-RING, 1AG40.0	1							
13	1	26013-100202	BOLT, M10X 20	2							
13-1	1	26014-100252	BOLT, M10X 25	2							N
		(A=MZZZZZ)									
14	1	26013-100252	BOLT, M10X 25	4							
15	1	172458-78091	HOSE 39.5 X 52.5	1							
16	1	172456-78100	HOSE 38.1X50.2	1							
16-1	1	172456-78101	HOSE 38.1X50.2	1							S
		(A=M/#21694)									
17	1	172456-78111	HOSE H206BZ080S	1							
18	1	172456-78120	HOSE H206BZ071S	1							
19	1	172456-78130	HOSE H206CZ061S	1							
20	1	172122-79930	CLAMP, HOSE	1							
21	1	23001-060000	CLAMP, HOSE 60	4							
22	1	23001-070000	CLAMP, HOSE 70	4							

Fig.67. HYD.OIL PIPING(PUMP,CONTROL V. - MOTOR)



(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2							
2	1	172173-76101	CONNECTOR ASSY	1							
3	2	24315-000110	O-RING, 1BP11.0	1							
4	1	172162-76131	ADAPTER	2							
5	1	172141-76180	CONNECTOR ASSY	1							
6	2	24315-000110	O-RING, 1BP11.0	1							
7	1	24315-000140	O-RING, 1BP14.0	2							
8	1	24315-000140	O-RING, 1BP14.0	2							
9	1	172456-78140	HOSE F403BB070S	1							
10	1	172422-78210	HOSE P206BC050S	2							
11	1	172312-17260	GROMMET	2							

Fig.68. HYD.OIL PIPING(CONTROL V. - SWIVEL,SWING)

(A)=VIO20-2(US)

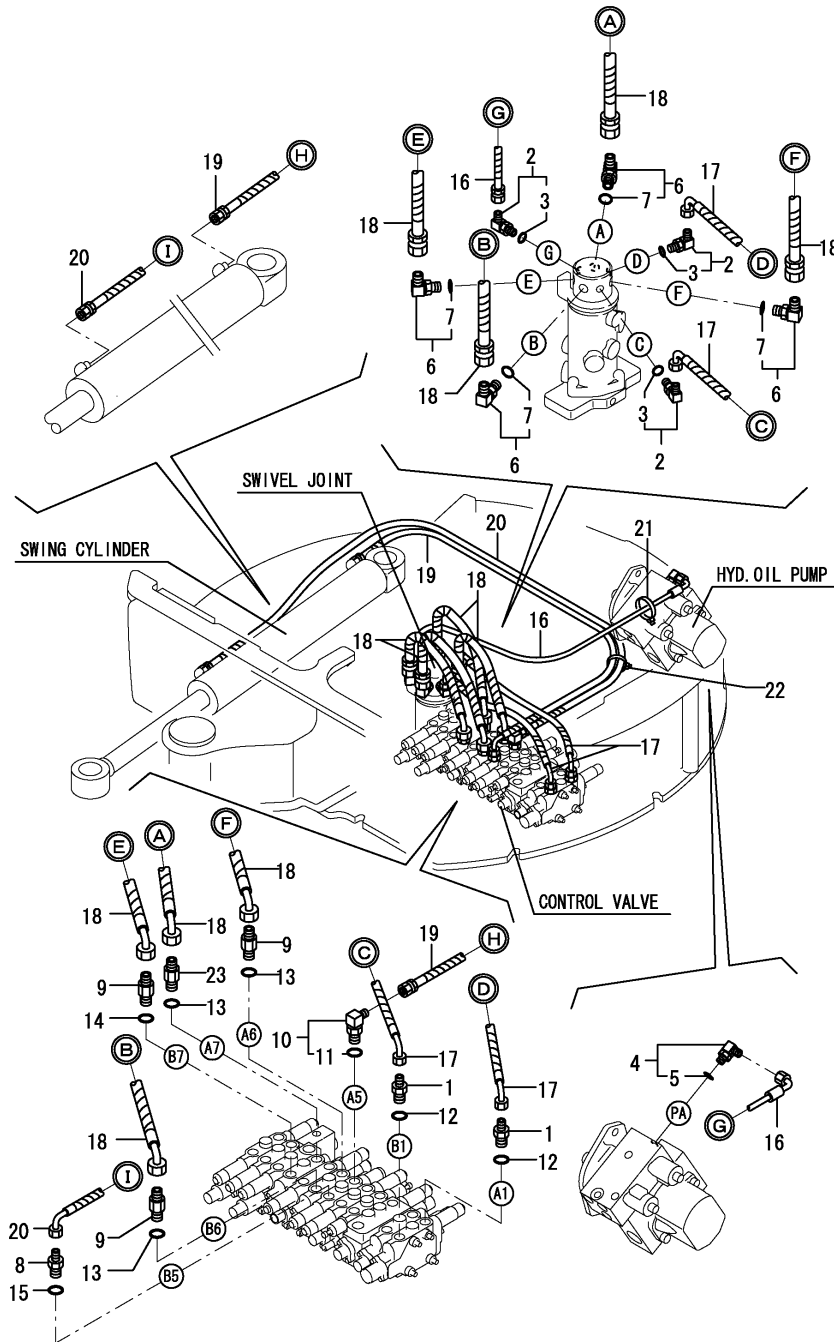
(B)=

(C)=

(D)=

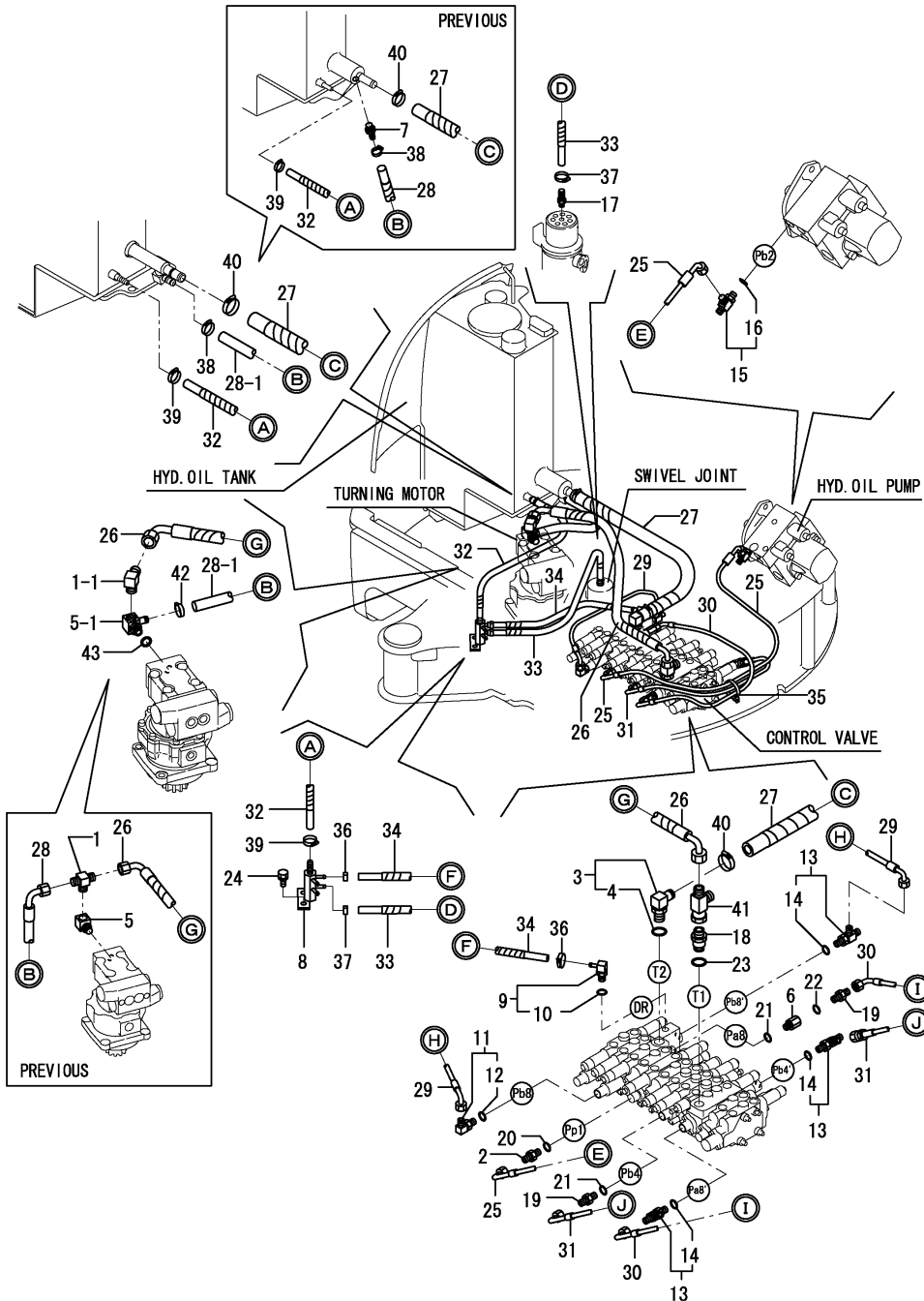
(E)=

(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-76140	CONNECTOR	2							
1-1	1	172422-76130	CONNECTOR	2							R
(A=M/#21858)											
2	1	172141-76180	CONNECTOR ASSY	3							
3	2	24315-000110	O-RING, 1BP11.0	3							
4	1	172141-76180	CONNECTOR ASSY	1							
5	2	24315-000110	O-RING, 1BP11.0	1							
6	1	172142-76181	JOINT ASSY	4							
7	2	24315-000140	O-RING, 1BP14.0	4							
8	1	172147-76260	CONNECTOR, 3/8X1/4	1							
9	1	172116-76381	ADAPTER, 64	3							
10	1	172141-76920	CONNECTOR ASSY	1							
11	2	24315-000140	O-RING, 1BP14.0	1							
12	1	24315-000140	O-RING, 1BP14.0	2							
13	1	24315-000140	O-RING, 1BP14.0	3							
14	1	24315-000140	O-RING, 1BP14.0	1							
15	1	24315-000140	O-RING, 1BP14.0	1							
16	1	172456-78150	HOSE F403BC090S	1							
17	1	172456-78170	HOSE P204BC067S	2							
18	1	172422-78200	HOSE P206BC048S	4							
19	1	172456-78200	HOSE F204BC155	1							
20	1	172456-78210	HOSE F204BC215S	1							
21	1	172122-79930	CLAMP, HOSE	1							
22	1	172126-11510	BAND 300	1							
23	1	172116-76381	ADAPTER, 64	1							
23-1	1	172162-76131	ADAPTER	1							N
(A=M/#21858)											

Fig.69. HYD.OIL PIPING(RETURN)



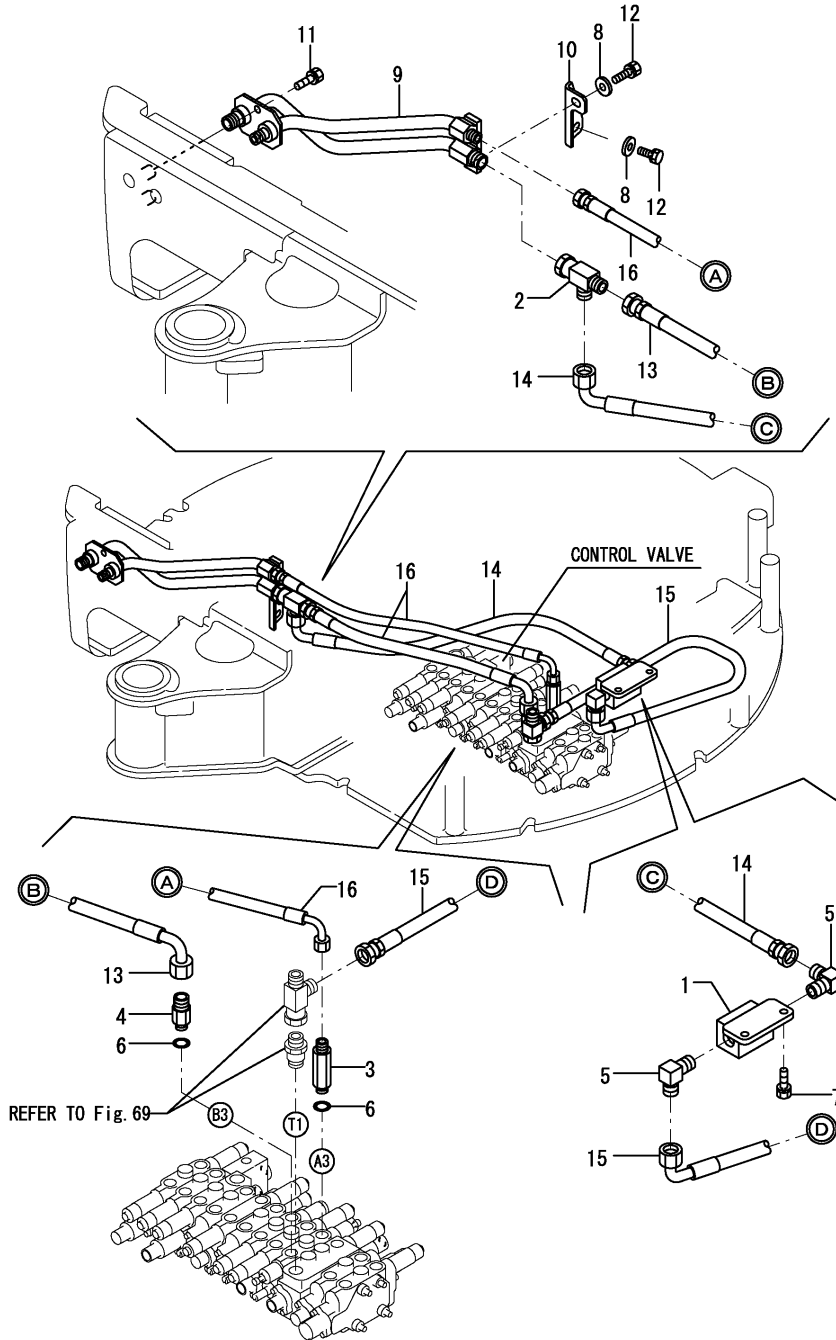
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-76100	TEE, PT1/2-PF1/2	1							
1-1	1	23393-040000	JOINT, 90RGI-1/2	1							S
(A=M/#22514)											
2	1	172123-76121	ADAPTER	1							
3	1	172164-76131	ELBOW	1							
4	2	24315-000180	O-RING, 1BP18.0	1							
5	1	172519-76130	CONNECTOR, 3/8X56	1							
5-1	1	172487-76200	ELBOW	1							S
(A=M/#22514)											
6	1	172422-76140	CONNECTOR	1							
7	1	172131-76150	NIPPLE	1							Z
(A=M/#21764)											
8	1	172444-76150	JOINT	1							
9	1	172458-76150	NIPPLE, ELBOW	1							
10	2	24315-000110	O-RING, 1BP11.0	1							
11	1	172141-76180	CONNECTOR ASSY	1							
12	2	24315-000110	O-RING, 1BP11.0	1							
13	1	172162-76180	JOINT ASSY, 3-1/4	3							
14	2	24315-000110	O-RING, 1BP11.0	3							
15	1	172162-76180	JOINT ASSY, 3-1/4	1							
16	2	24315-000110	O-RING, 1BP11.0	1							
17	1	172141-76220	NIPPLE	1							
18	1	172147-76271	CONNECTOR, 1/2X1/2	1							
19	1	172164-76330	JOINT, PF1/4-0.7	2							
20	1	24315-000110	O-RING, 1BP11.0	1							
21	1	24315-000110	O-RING, 1BP11.0	2							
22	1	24315-000110	O-RING, 1BP11.0	1							
23	1	24315-000180	O-RING, 1BP18.0	1							
24	1	26013-100202	BOLT, M10X 20	2							
25	1	172456-78160	HOSE F403CC806	1							
26	1	172456-78260	HOSE G608CC067S	1							
27	1	172456-78270	HOSE G612YY055S	1							
28	1	172456-78280	HOSE G608CY057S	1							
28-1	1	172487-78260	HOSE G806YY026	1							S
(A=M/#22154)											
29	1	172458-78290	HOSE F403CC042	1							
30	1	172458-78300	HOSE F403CC074	1							
31	1	172458-78310	HOSE F403BC053	1							
32	1	172165-78412	HOSE G806YY077S	1							
33	1	172458-78530	HOSE G604YY054S	1							
34	1	172458-78540	HOSE G604YY047S	1							
35	1	172122-79930	CLAMP, HOSE	1							
36	1	23000-013000	CLAMP, 13	2							
37	1	23000-013000	CLAMP, 13	2							
38	1	23001-016000	CLAMP, HOSE 16	1							
39	1	23001-016000	CLAMP, HOSE 16	2							
40	1	23001-035000	CLAMP, HOSE 35	2							
41	1	172469-76110	CONNECTOR, 3X1/2	1							
42	1	23001-016000	CLAMP, HOSE 16	1							W
(A=M/#22514)											
43	1	24315-000140	O-RING, 1BP14.0	1							W

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

(A)=VIO20-2(US)
(B)=
(C)=

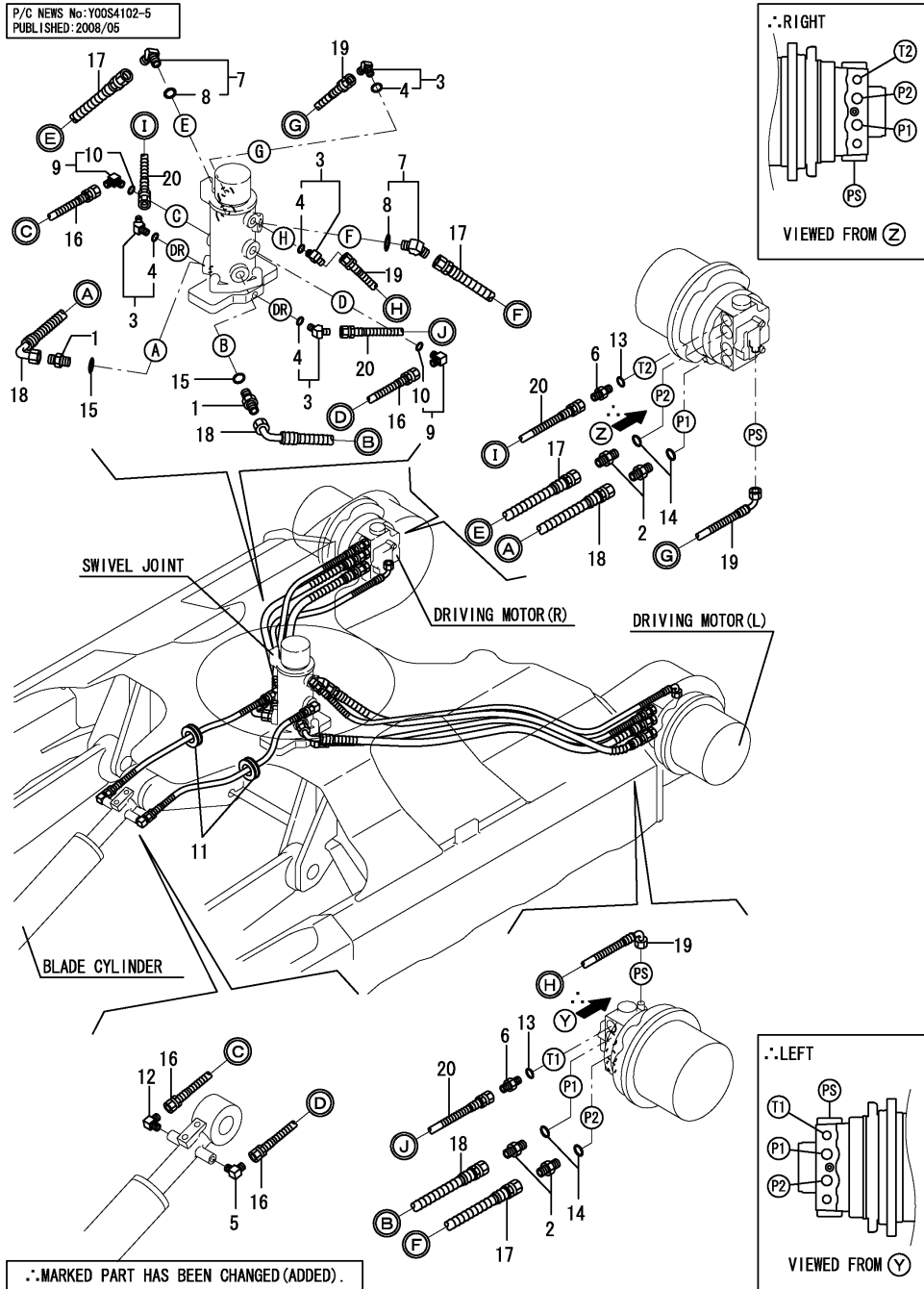
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820	STOP VALVE (97)	1							
2	1	172469-76110	CONNECTOR, 3X1/2	1							
3	1	172162-76130	ADAPTER	1							
3-1	1	172162-76131	ADAPTER	1							R
(A=M/#26236)											
4	1	172422-76180	CONNECTOR, PF3/8X1/2	1							
5	1	23393-040000	JOINT, 90RGI-1/2	2							
6	1	24315-000140	O-RING, 1BP14.0	2							
7	1	26013-100252	BOLT, M10X 25	2							
8	1	172110-36010	COLLAR	2							
9	1	172456-76800-2	TUBE	1							
10	1	172456-76880-2	PLATE (GREEN:86)	1							
11	1	26013-100202	BOLT, M10X 20	2							
12	1	26013-100252	BOLT, M10X 25	2							
13	1	172469-78550	HOSE H208BC049	1							
14	1	172469-78560	HOSE H208BC073S	1							
15	1	172469-78570	HOSE H608BC052	1							
16	1	172456-78970	HOSE H206BC058	1							

Fig.71. HYD.OIL PIPING(TRACK FRAME)

P/C NEWS No. Y00S4102-5
PUBLISHED: 2008/05

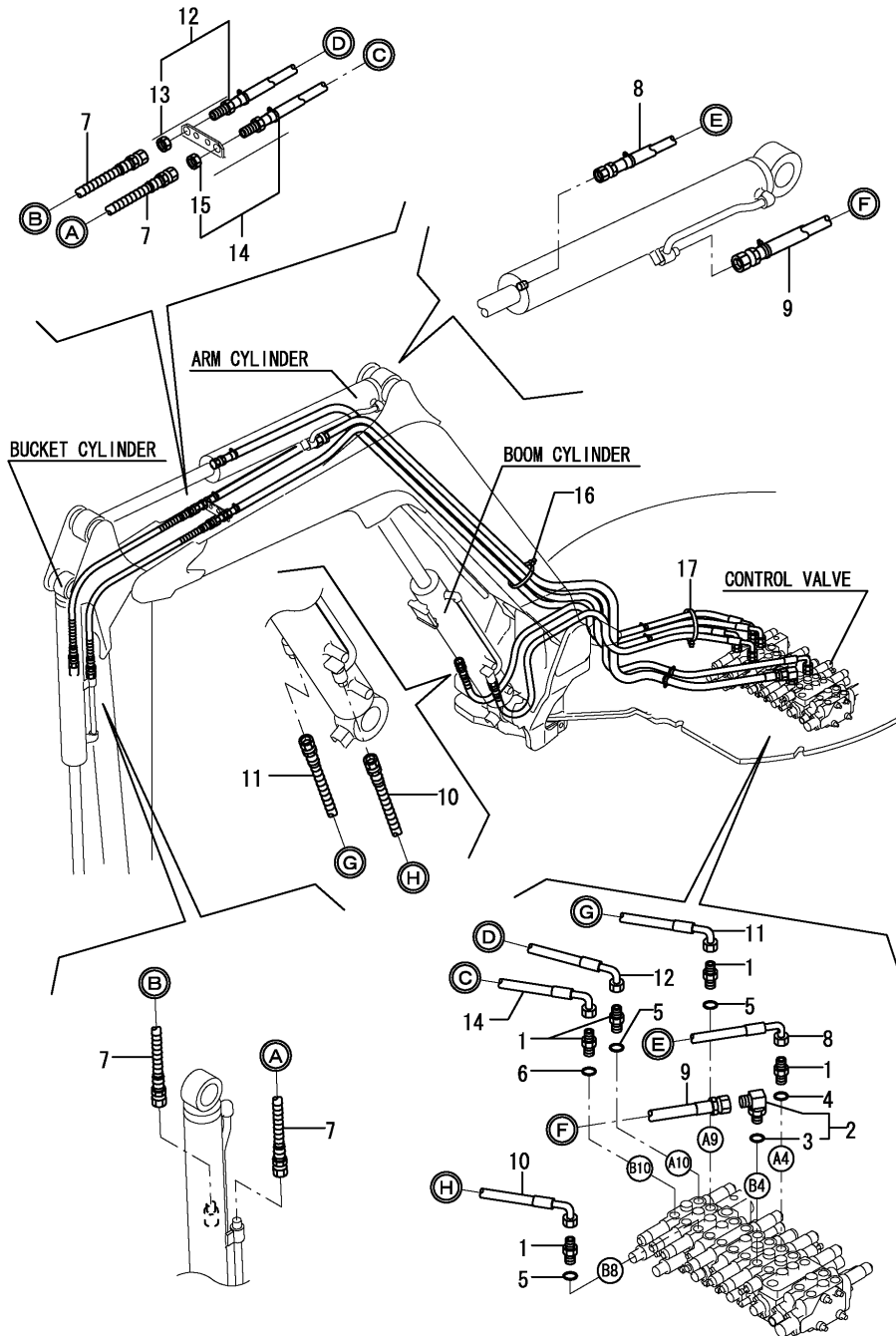


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2							
2	1	172730-75141	ADAPTER	4							
3	1	172173-76101	CONNECTOR ASSY	4							
4	2	24315-000110	O-RING, 1BP11.0	4							
5	1	172421-76100	CONNECTOR	1							
6	1	172123-76121	ADAPTER	2							
7	1	172644-76161	ELBOW, ADJUST	2							
8	2	24315-000140	O-RING, 1BP14.0	2							
9	1	172141-76180	CONNECTOR ASSY	2							
10	2	24315-000110	O-RING, 1BP11.0	2							
11	1	172422-78760	GROMMET	2							
12	1	23393-020000	JOINT, 90RGI-1/4	1							
13	1	24315-000110	O-RING, 1BP11.0	2							
14	1	24315-000140	O-RING, 1BP14.0	4							
15	1	24315-000140	O-RING, 1BP14.0	2							
16	1	172421-78120	HOSE F204BB059W	2							
17	1	172421-78130	HOSE F206BB087S	2							
17-1	1	172421-78131	HOSE F206BB087W	2							N
(A=M/#25770)											
18	1	172456-78290	HOSE F206BC090W	2							
18-1	1	172456-78291	HOSE F206BC087W	2							N
(A=M/#25770)											
19	1	172456-78300	HOSE F204BC100W	2							
19-1	1	172456-78301	HOSE F204BC100W	2							N
(A=M/#25770)											
20	1	172456-78311	HOSE G704BB083W	2							
20-1	1	172456-78312	HOSE F204BB083W	2							N
(A=M/#25770)											

Fig.72. HYD.OIL PIPING(BOOM)

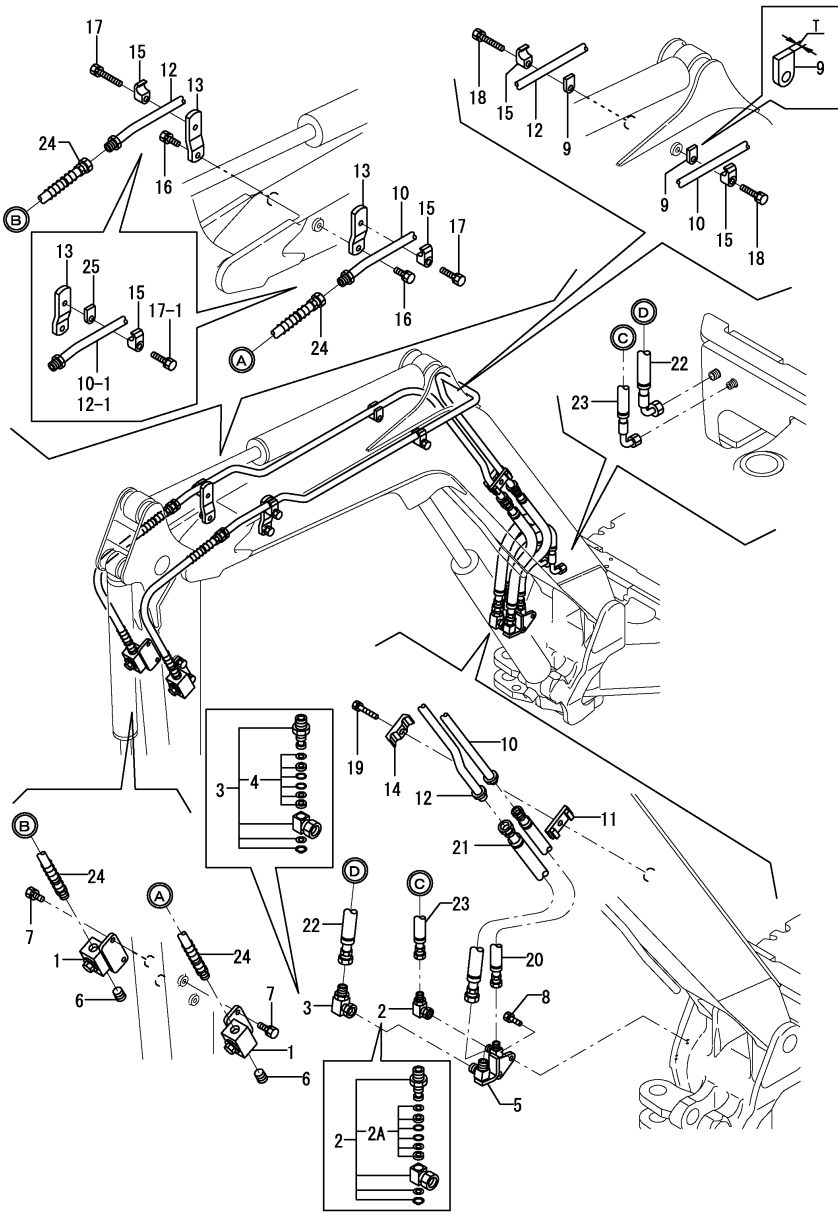


(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	5							
2	1	172142-76181	JOINT ASSY	1							
3	2	24315-000140	O-RING, 1BP14.0	1							
4	1	24315-000140	O-RING, 1BP14.0	1							
5	1	24315-000140	O-RING, 1BP14.0	3							
6	1	24315-000140	O-RING, 1BP14.0	1							
7	1	172957-78150	HOSE H206BB070W	2							
8	1	172456-78180	HOSE H206BC270K	1							
9	1	172456-78190	HOSE H206BB227K	1							
10	1	172456-78220	HOSE H206BC109W	1							
11	1	172456-78230	HOSE H206BC114W	1							
12	1	172456-78241	HOSE H206CX260K	1							
13	2	172455-79770	NUT, LOCK	1							W
(A=M/#20907)											
14	1	172456-78251	HOSE H206CX250K	1							
15	2	172455-79770	NUT, LOCK	1							W
(A=M/#20907)											
16	1	172122-79930	CLAMP, HOSE	1							
17	1	172122-79930	CLAMP, HOSE	1							

Fig.73. HYD.OIL PIPING(P.T.O.:ARM END)



(A)=VIO20-2(US)

(B)=

(C)=

(D)=

(E)=

(F)=

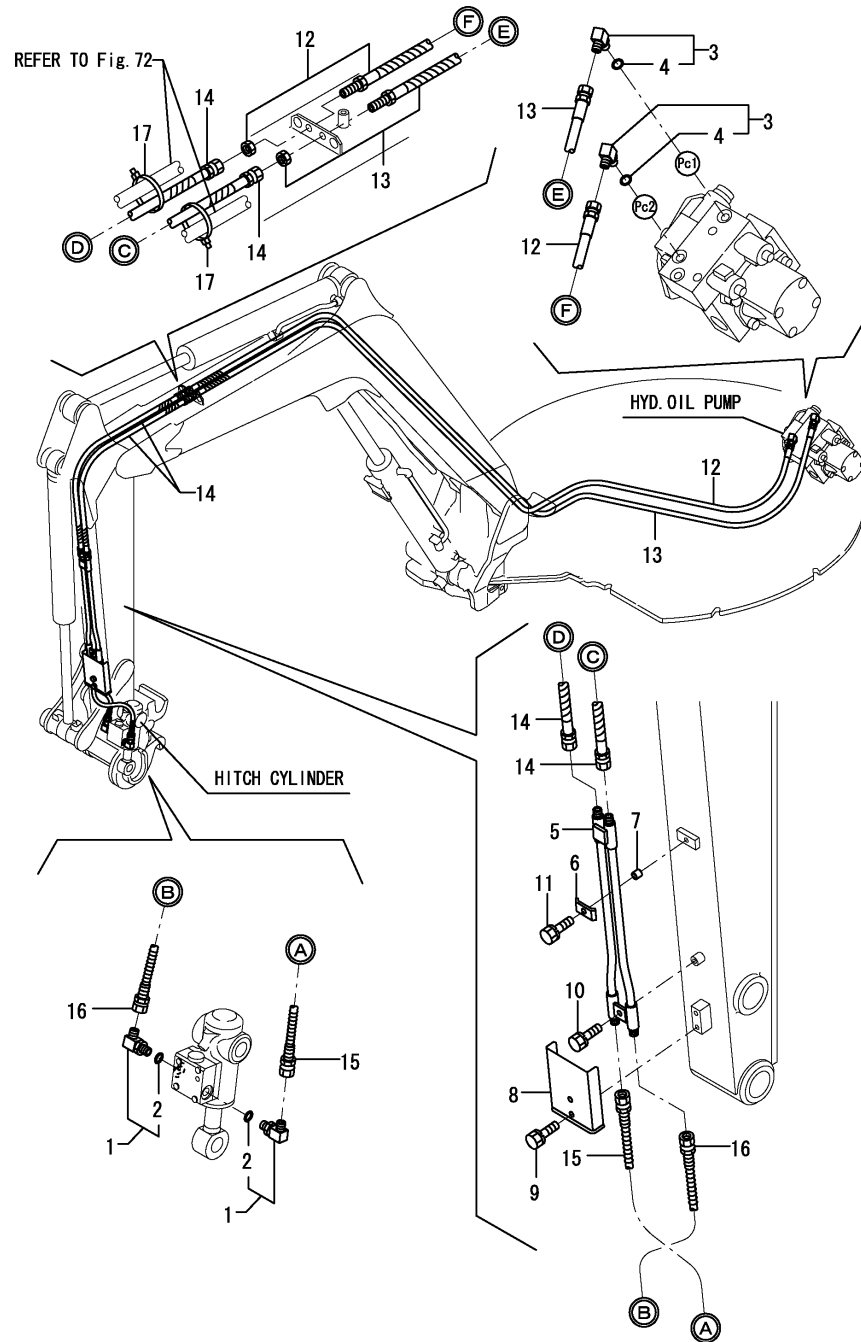
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820-5	VALVE, STOP	2							
2	1	172456-76250	JOINT, SWIVEL 3/8	1							
2A	2	172456-76260	SEAL SET, 3/8	1							W
(A=M/#20907)											
3	1	172142-76270	JOINT, SWIVEL 1/2	1							
4	2	172142-77040	SEAL SET	1							
5	1	172456-76700	JOINT ASSY, PTO	1							
6	1	23871-04000	PLUG, R04	2							
7	1	26013-100252	BOLT, M10X 25	4							
8	1	26013-100252	BOLT, M10X 25	2							
9	1	172183-76250-1	PLATE	2							
9-1	1	172187-76690-1	PLATE	2							S 2
(A=MZZZZZ)											
10	1	172456-76600-1	TUBE ASSY, PTO	1							
10-1	1	172456-76601-1	TUBE ASSY, PTO	1							F 1
(A=MZZZZZ)											
11	1	172175-76640-1	SPACER ASSY	1							
12	1	172456-76650-1	TUBE ASSY, PTO	1							
12-1	1	172456-76651-1	TUBE ASSY, PTO	1							F 1
(A=MZZZZZ)											
13	1	172458-76680-1	STAY	2							
14	1	172175-76750-5	CLAMP, PLUMBING 1/2	1							
15	1	172142-76950	CLAMP	4							
16	1	26013-120302	BOLT, M12X 30	2							
17	1	26013-120402	BOLT, M12X 40	2							
17-1	1	26013-120502	BOLT, M12X 50	2							S
(A=MZZZZZ)											
18	1	26013-120502	BOLT, M12X 50	2							
18-1	1	26013-120602	BOLT, M12X 60	2							S
(A=MZZZZZ)											
19	1	26013-120552	BOLT, M12X 55	1							
19-1	1	26013-120602	BOLT, M12X 60	1							S
(A=MZZZZZ)											
20	1	172469-78510	HOSE H206BB068K	1							
21	1	172469-78520	HOSE H208BB065K	1							
22	1	172469-78530	HOSE H208BC090K	1							
23	1	172469-78540	HOSE H206BC077K	1							
24	1	172456-78910	HOSE H208AB060W	2							
25	1	172183-76250-1	PLATE	2							W
(A=MZZZZZ)											

Remarks

(1)Interchangeable by simultaneous replacement with Ref.No.9-1,17-1, 18-1,25.

(2)T=Ref.No.9:9mm, No.9-1:16mm.

Fig.74. HYD.OIL PIPING(QUICK COUPLER SPEC.)

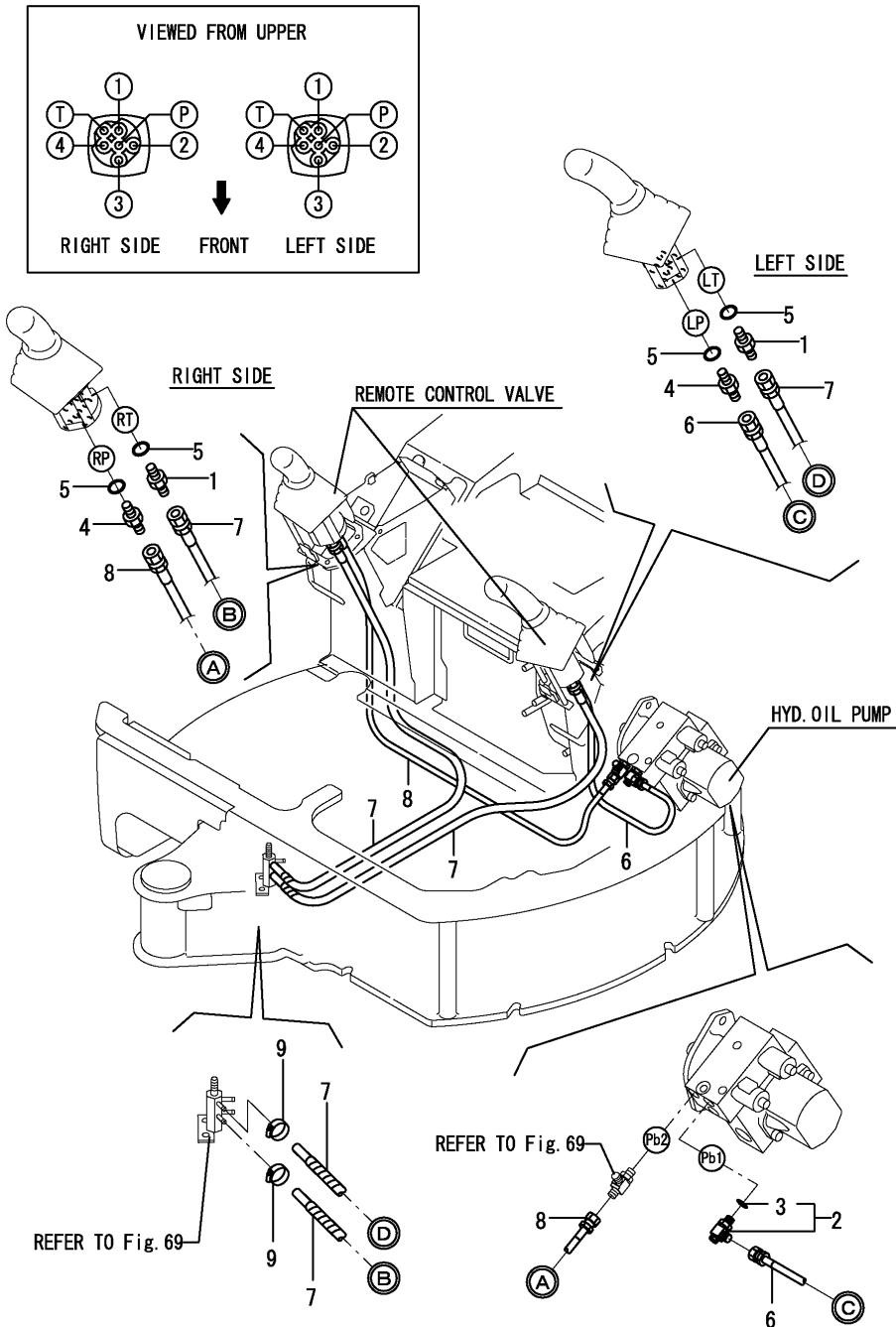


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-76130	ELBOW	2							
2	2	24315-000110	O-RING, 1BP11.0	2							
3	1	172141-76180	CONNECTOR ASSY	2							
4	2	24315-000110	O-RING, 1BP11.0	2							
5	1	172956-76100-1	TUBE, HITCH	1							
6	1	172110-76170-1	PLATE (YELLOW:87)	1							
7	1	172137-76580	COLLAR	1							
8	1	172958-81900-1	COVER, ARM	1							
8-1	1	172956-81900-1	COVER, ARM	1							N
(A=M/#20980)											
8-2	1	172956-81901-1	COVER, ARM	1							N
(A=M/#25770)											
9	1	26013-080162	BOLT, M8X 16	2							
10	1	26013-080162	BOLT, M8X 16	1							
11	1	26013-080252	BOLT, M8X 25	1							
12	1	172956-78100	HOSE G205BX313K	1							
13	1	172956-78110	HOSE G205BX313K	1							
14	1	172957-78111	HOSE H204BB075K	2							
15	1	172958-78120	HOSE G604BB048W	1							
15-1	1	172958-78200	HOSE F102BB050W	1							N
(A=M/#20980)											
16	1	172958-78160	HOSE G604BB049W	1							
16-1	1	172958-78200	HOSE F102BB050W	1							N
(A=M/#20980)											
16-2	1	172956-78120	HOSE F102BB051W	1							N
(A=M/#21004)											
17	1	172122-79930	CLAMP, HOSE	2							

Fig.75. CONTROL PIPING(PUMP - CONTROL V. - RETURN)

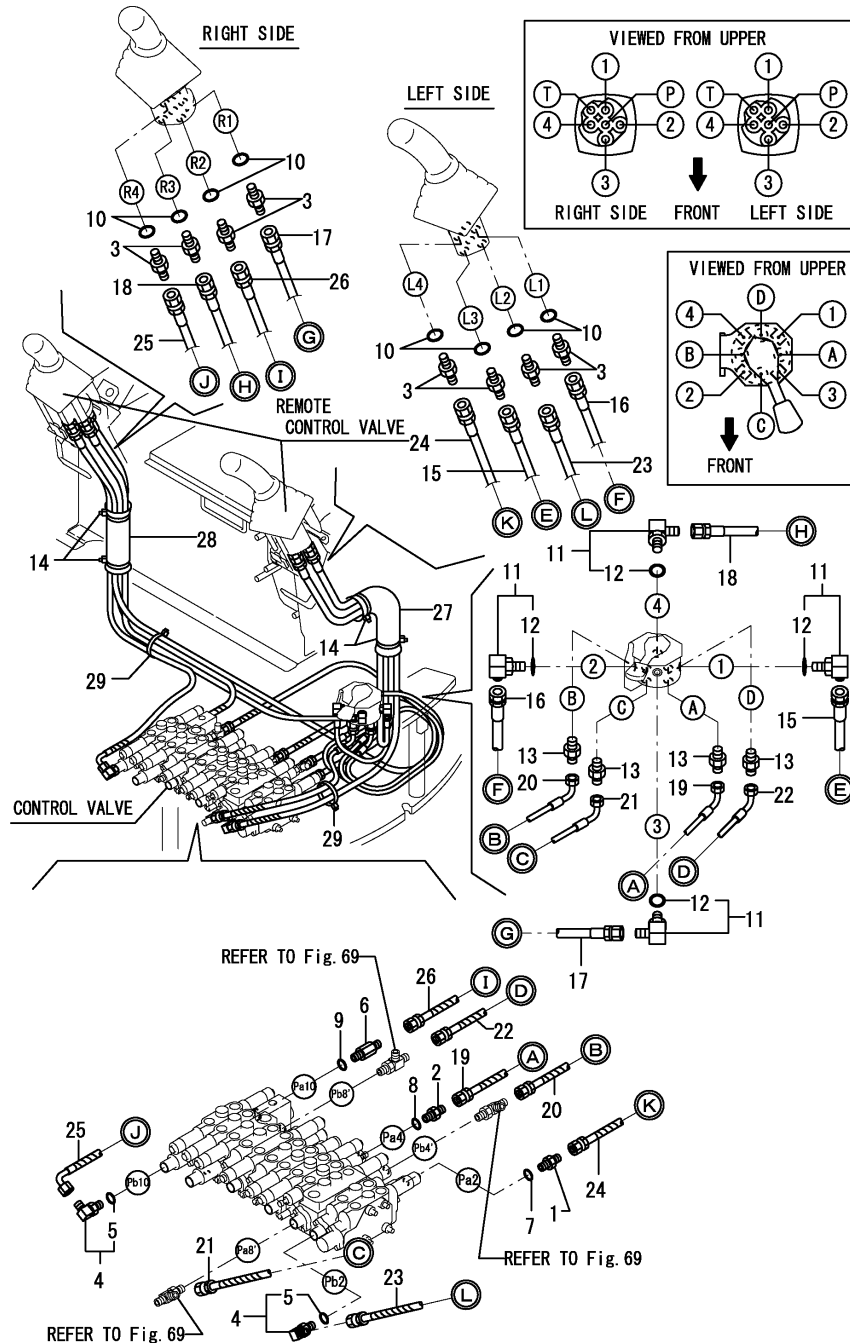


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	2							
2	1	172187-76210	ELBOW	1							
3	2	24315-000110	O-RING, 1BP11.0	1							
4	1	172455-76220	CONNECTOR	2							
5	1	24315-000110	O-RING, 1BP11.0	4							
6	1	172469-78180	HOSE F403BB138S	1							
7	1	172469-78190	HOSE G804BY158S	2							
8	1	172469-78200	HOSE F403BB120S	1							
9	1	23000-013000	CLAMP, 13	2							

Fig.76. CONTROL PIPING(REMOTE CONTROL V. - 2WAY V. - CONTROL V.)

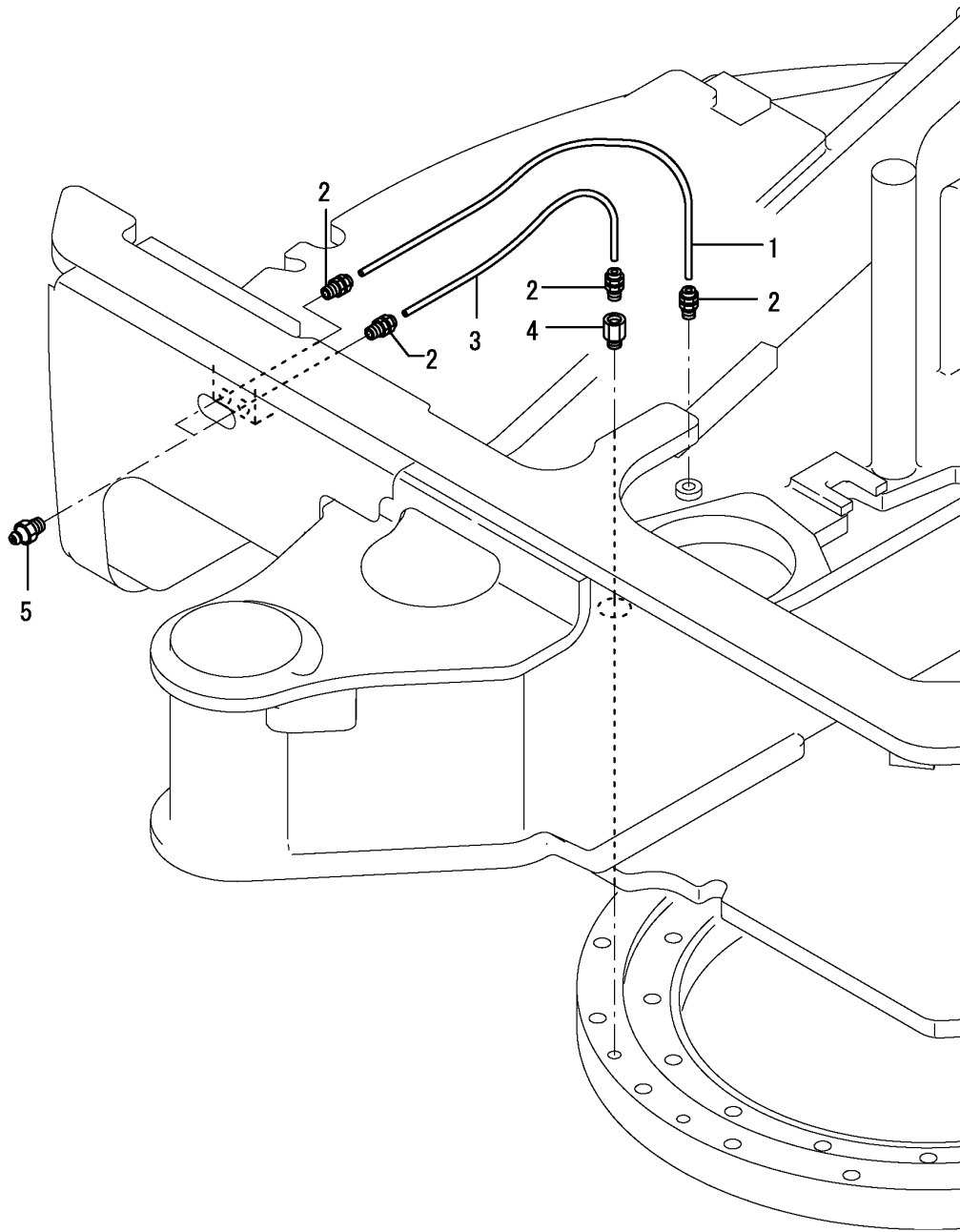


(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	1							
2	1	172123-76121	ADAPTER	1							
3	1	172123-76121	ADAPTER	8							
4	1	172141-76180	CONNECTOR ASSY	2							
5	2	24315-000110	O-RING, 1BP11.0	2							
6	1	172183-76200	CONNECTOR	1							
7	1	24315-000110	O-RING, 1BP11.0	1							
8	1	24315-000110	O-RING, 1BP11.0	1							
9	1	24315-000110	O-RING, 1BP11.0	1							
10	1	24315-000110	O-RING, 1BP11.0	8							
11	1	172141-76180	CONNECTOR ASSY	4							
12	2	24315-000110	O-RING, 1BP11.0	4							
13	1	23391-020000	JOINT, RGI-1/4	4							
14	1	172126-11510	BAND 300	4							
15	1	172469-78100	HOSE F403BB121S	1							
16	1	172469-78110	HOSE F403BB146S	1							
17	1	172469-78120	HOSE F403BB134S	1							
18	1	172469-78130	HOSE F403BB167S	1							
19	1	172469-78140	HOSE F403BC085S	1							
20	1	172469-78150	HOSE F403BC094S	1							
21	1	172472-78160	HOSE F403BC065S	1							
22	1	172469-78170	HOSE F403BC109S	1							
23	1	172469-78210	HOSE F403BB174S	1							
24	1	172469-78220	HOSE F403BB128S	1							
25	1	172469-78230	HOSE F403BC150S	1							
26	1	172469-78240	HOSE F403BB113S	1							
27	1	172472-78800	SPONGE, HOSE	1							
28	1	172165-79810	SPONGE, HOSE	1							
29	1	172122-79930	CLAMP, HOSE	4							

Fig.77. GREASING

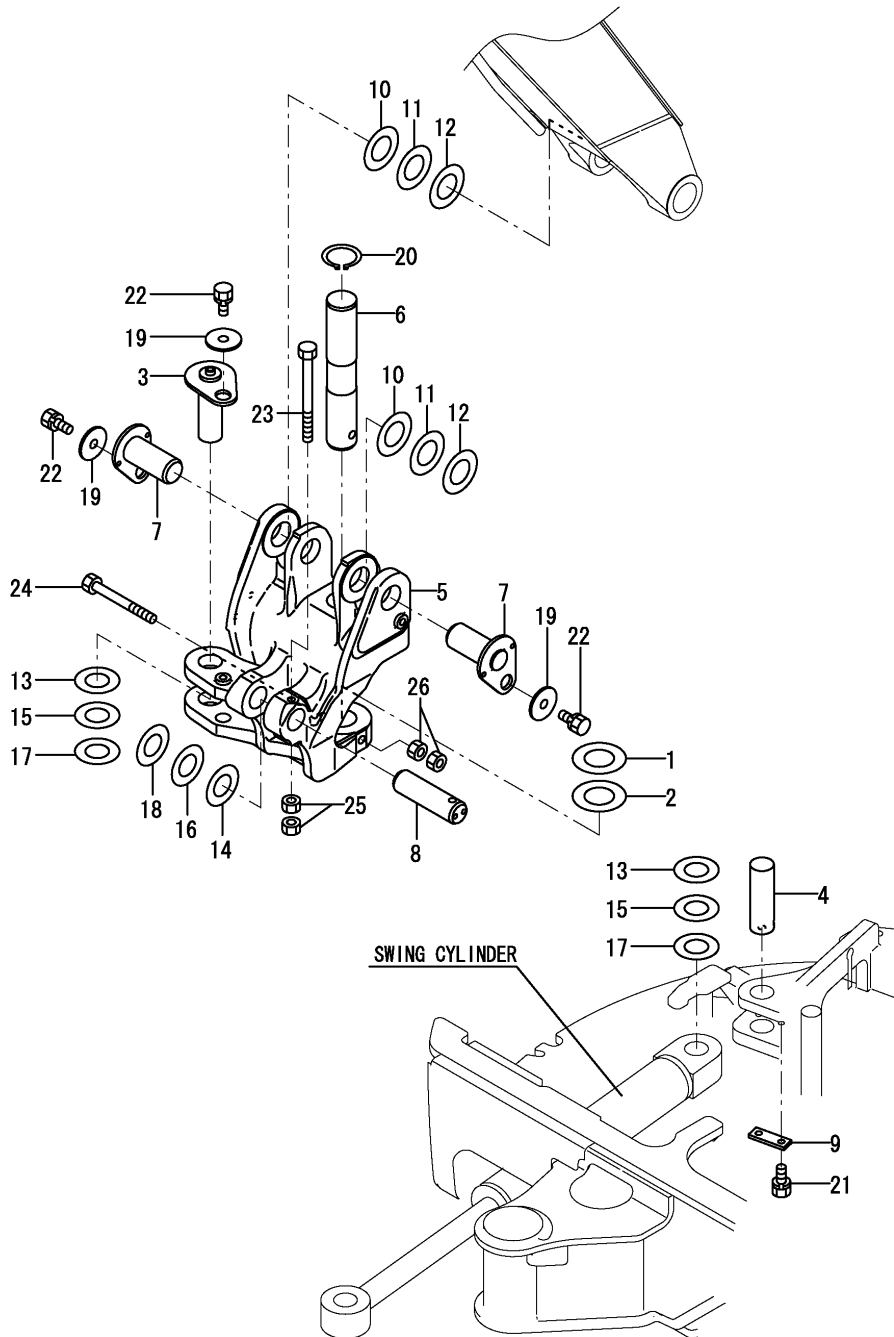


(A)=VIO20-2(US)
 (B)=
 (C)=

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

No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172186-77100	HOSE P602YY055	1							
2	1	172141-77800	JOINT, GREASE	4							
3	1	172151-77801	HOSE P602YY045	1							
4	1	172312-77820	FITTING, GREASE	1							
5	1	24761-020000	NIPPLE, GREASE PT1/8	2							

Fig.78. BOOM BRACKET



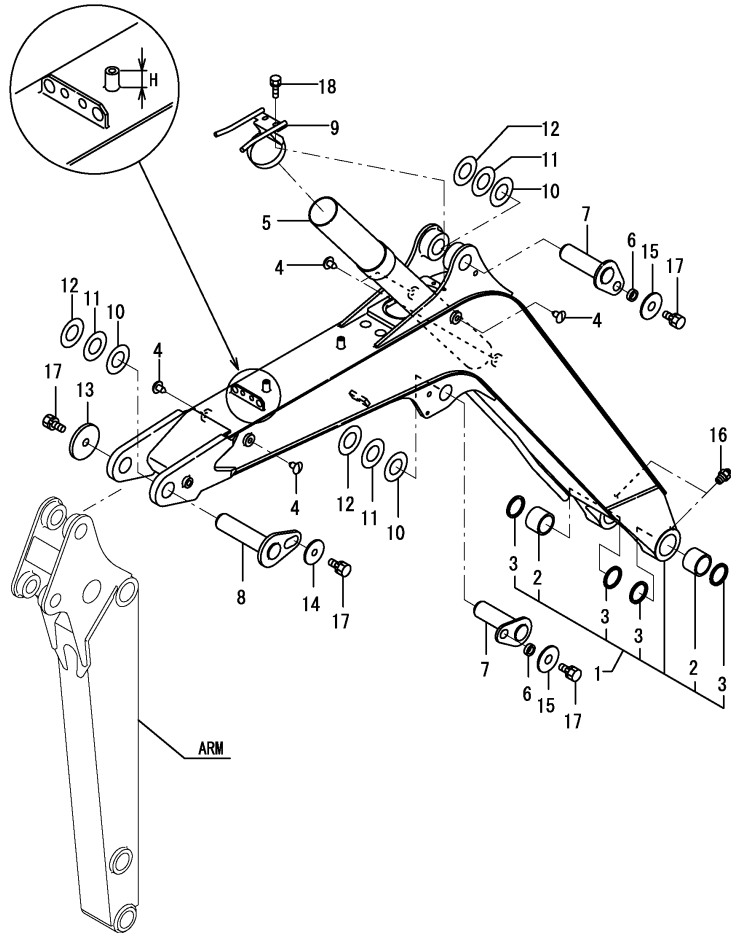
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-81700	SHIM, 50X90X0.8	1							
1-1	1	172165-82530	SHIM	1							R
(A=M/#25604)											
2	1	172173-81710	SHIM, 50X90X0.5	1							
2-1	1	172165-82520	SHIM	1							R
(A=M/#25604)											
3	1	172456-81900	PIN 40X103		1						
4	1	172458-81920	PIN 40X115		1						
5	1	172456-82300-1	BRACKET,BOOM (87)		1						
6	1	172456-82330	PIN 50X264		1						
7	1	172456-82340	PIN 45X95		2						
8	1	172456-82360	PIN 40X124		1						
9	1	172456-82400	PLATE,PIN (GREEN:97)		1						
10	1	172165-82550	SHIM		2						
11	1	172165-82560	SHIM		2						
12	1	172165-82570	SHIM		2						
13	1	172165-82580	SHIM		2						
14	1	172165-82580	SHIM		1						
15	1	172165-82590	SHIM		2						
16	1	172165-82590	SHIM		1						
17	1	172165-82600	SHIM		2						
18	1	172165-82600	SHIM		1						
19	1	22157-120000	WASHER, 12		3						
20	1	22242-000500	RING, 50		1						
21	1	26013-100202	BOLT, M10X 20		2						
22	1	26013-120252	BOLT, M12X 25		3						
23	1	26116-121102	BOLT, M12X110 PLATED		1						
24	1	26206-141502	BOLT, M14X150 PLATED		1						
25	1	26716-120002	NUT, M12		2						
26	1	26716-140002	NUT, M14		2						

Fig.79. BOOM

P/C NEWS No:Y00S4102-3
PUBLISHED:2007/06



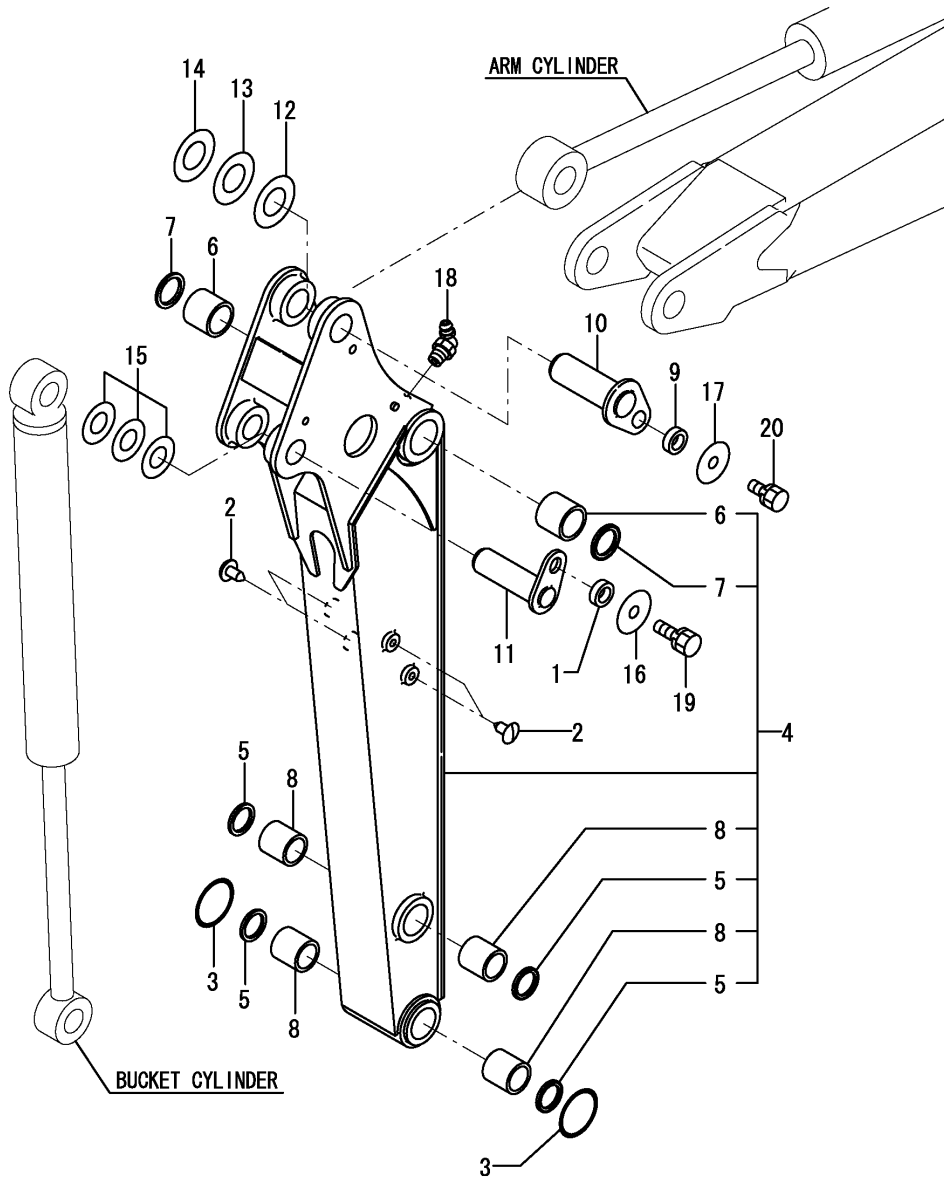
(A)=VIO20-2(US)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-81102-1	BOOM (YELLOW:87)	1							1
1-1	1	172456-81103-1	BOOM ASSY(YELLOW:87)	1							S 3
(A=M/#22501)											
1-2	1	172456-81090-1	BOOM ASSY(YELLOW:87)	1							N
(A=XXX)											
2	2	172168-72400	BUSH 45X55X40	2							
3	2	172168-81410	SEAL, DUST	4							
4	1	172183-81170	CLIP, TREE	5							
5	1	172456-81450	PIPE ASSY, PROTECT	1							
6	1	172164-81670	SPACER	2							
7	1	172456-81710	PIN 40X134	2							
8	1	172456-81740	PIN 40X167.5 ASSY	1							
9	1	172458-81751-1	CLAMP, PIPE	1							
10	1	172165-82580	SHIM	3							
11	1	172165-82590	SHIM	3							
12	1	172165-82600	SHIM	3							
13	1	172146-82910	SPACER	1							
14	1	172444-82990	WASHER	1							
15	1	22157-120000	WASHER, 12	2							
16	1	24761-050000	NIPPLE, GREASE C	2							
17	1	26013-120252	BOLT, M12X 25	4							
18	1	26014-080162	BOLT, M8X 16	2							
19A	1	172524-03271	LABEL	2							2
19B	1	172437-03431	LABEL,STEERING	1							2
19C	1	172437-03460	LABEL, BOOM	2							2
19D	1	172472-03270	LABEL,SAND US	1							2
19E	1	172472-03280	LABEL	1							2

Remarks
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 STANDARD SPEC:
 REF.NO.19A,19B,19C
 QUICK COUPLER SPEC:
 REF.NO.19A,19B,19C,19D,19E,
 (2)LABELS ARE NOT ILLUSTRATED.
 (3)H=REF.NO.1:24.5MM,NO.1-1:30MM.
 INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH FIG.NO.33 REF.NO.1-1.

Fig.80. ARM(STANDARD SPEC.)



(A)=VIO20-2(US)
(B)=
(C)=

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

No.	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							
3	1	172171-81270	O-RING, 61X6.0	2							
4	1	172456-81500-1	ARM ASSY, 950	1							1
5	2	172171-81280	SEAL, DUST 35X45X4	4							
5-1	2	172448-81610	SEAL, DUST 35X45X4	4							R
(A=M/#21808)											
6	2	172456-81650	BUSHING 40X50X45	2							
7	2	172165-81750	SEAL, DUST 40X50X5	2							
7-1	2	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
8	2	172141-82270	BUSH 35 45	4							
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, 10	1							
17	1	22157-120000	WASHER, 12	1							
18	1	24761-040000	NIPPLE, GREASE B	1							
19	1	26013-100252	BOLT, M10X 25	1							
20	1	26013-120252	BOLT, M12X 25	1							
21A	1	172437-03510	LABEL,HOOK	2							2

Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.21A

(2)LABELS ARE NOT ILLUSTRATED.

Fig.81. ARM(QUICK COUPLER SPEC.)

(A)=VIO20-2(US)

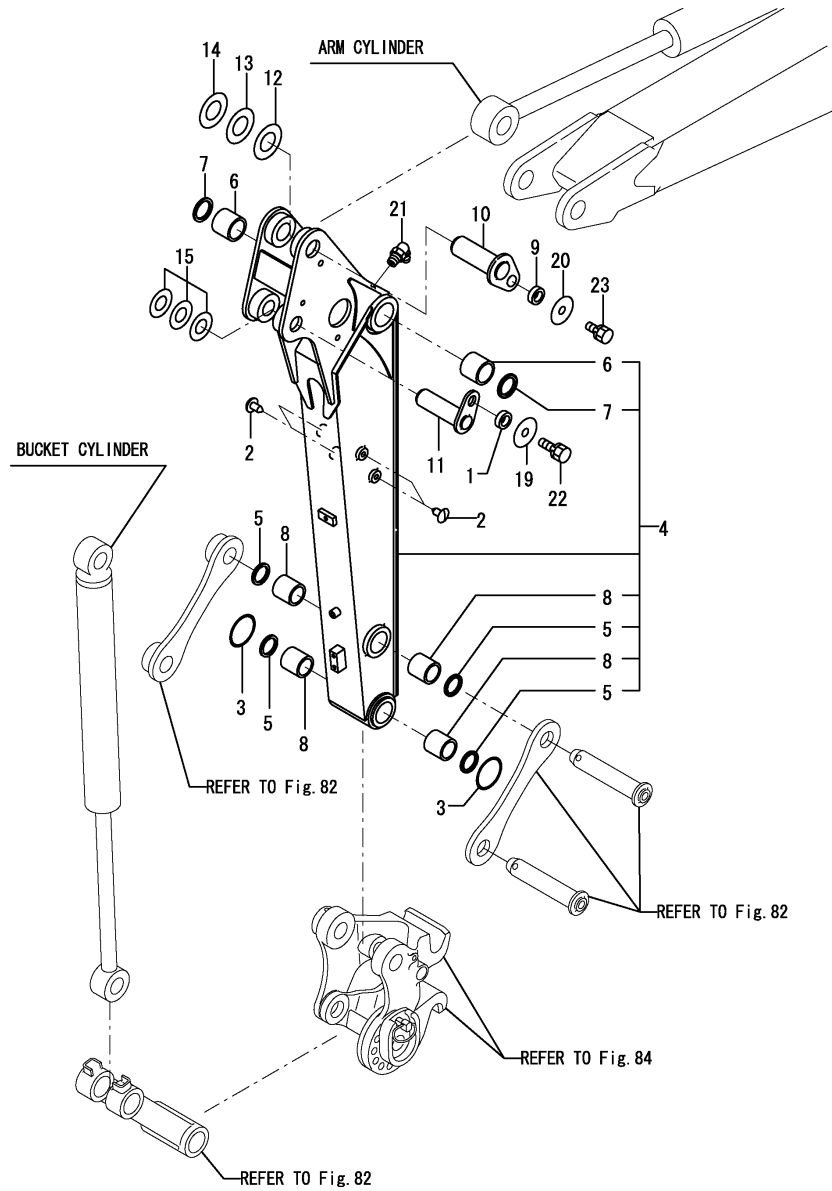
(B)=

(C)=

(D)=

(E)=

(F)=



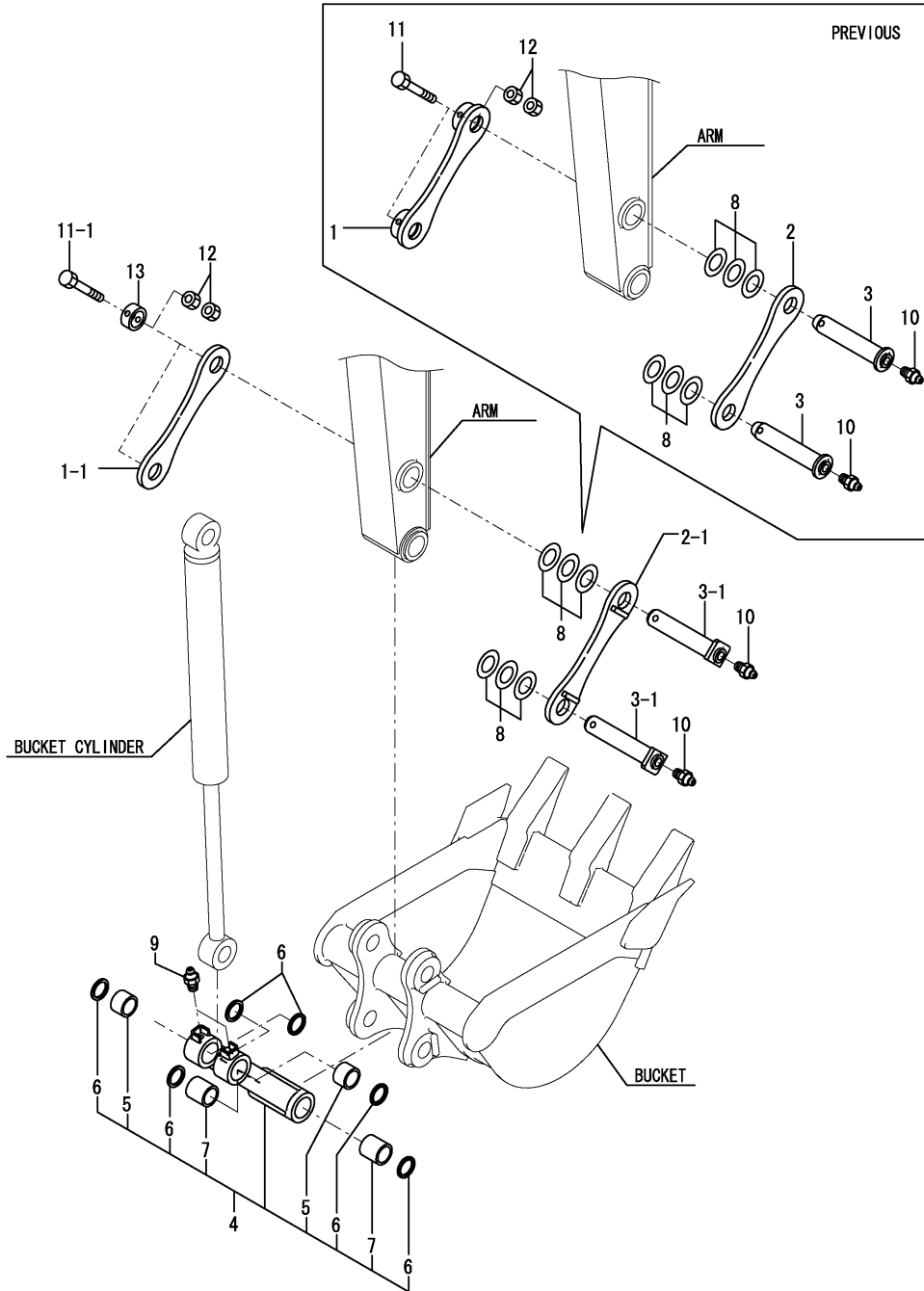
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	1							
2	1	172183-81160	CLIP, TREE	4							
3	1	172171-81270	O-RING, 61X6.0	2							
4	1	172956-81500-1	ARM ASSY	1							1
4-1	1	172956-81501-1	ARM ASSY, 950	1							N 1
(A=*2004.06)											
5	2	172171-81280	SEAL, DUST 35X45X4	4							
5-1	2	172448-81610	SEAL, DUST 35X45X4	4							R
(A=M/#21808)											
6	2	172456-81650	BUSHING 40X50X45	2							
7	2	172165-81750	SEAL, DUST 40X50X5	2							
7-1	2	172448-72650	SEAL, DUST	2							R
(A=M/#21808)											
8	2	172141-82270	BUSH 35 45	4							
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							
19	1	22157-100000	WASHER, 10	1							
20	1	22157-120000	WASHER, 12	1							
21	1	24761-040000	NIPPLE, GREASE B	1							
22	1	26013-100252	BOLT, M10X 25	1							
23	1	26013-120252	BOLT, M12X 25	1							
24A	1	172437-03510	LABEL,HOOK	2							2
24B	1	172472-03230	LABEL,OPERATION PIN	1							2
24C	1	172472-03260	LABEL,FINGER	1							2

Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.24A,24B,24C

(2)LABELS ARE NOT ILLUSTRATED.

Fig.82. BUCKET ARM & LINK



(A)=VIO20-2(US)
(B)=
(C)=

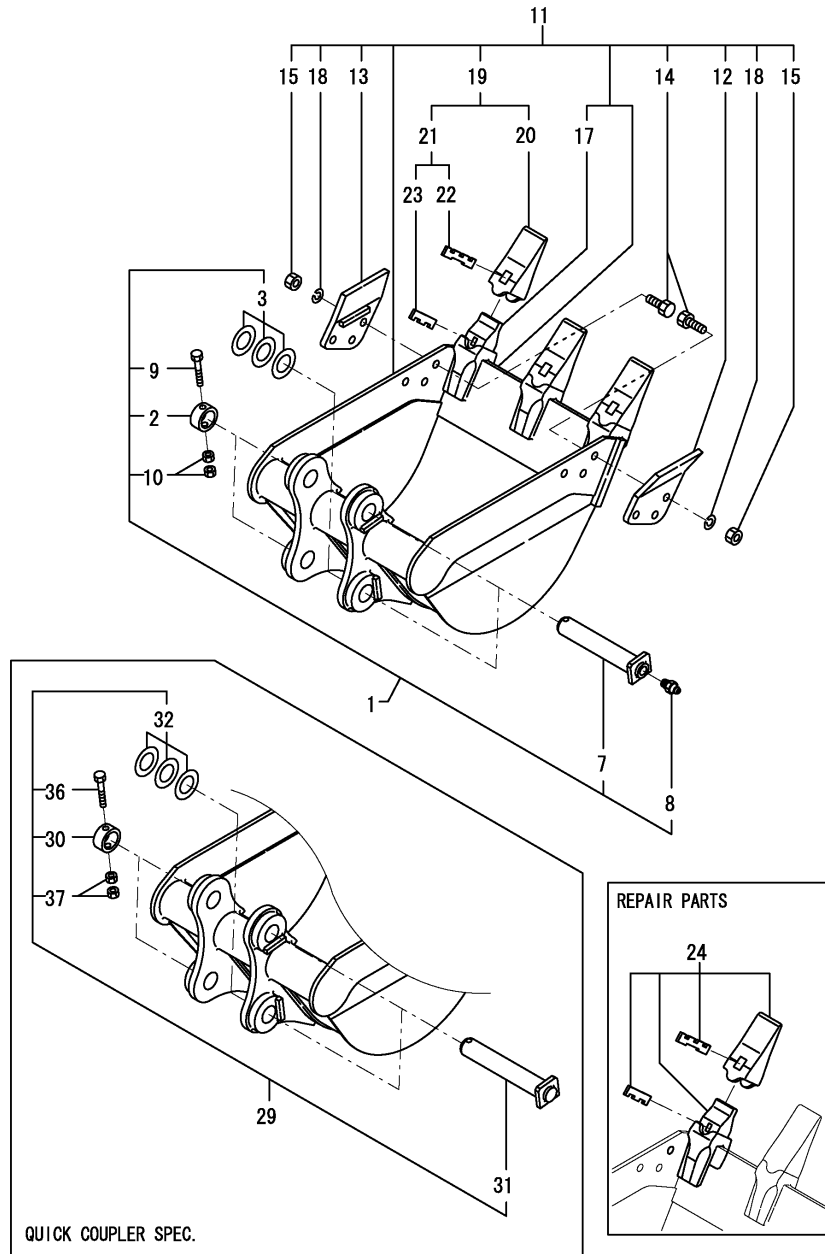
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-82700-1	ARM, BUCKET	1							
1-1	1	172456-82710-1	ARM, BUCKET	1							S
(A=M/#22204)											
2	1	172456-82710-1	ARM, BUCKET	1							
2-1	1	172456-82701-1	ARM, BUCKET	1							S
(A=M/#22204)											
3	1	172456-82830	PIN 35X160 ASSY	2							
3-1	1	172456-82831	PIN 35X160 ASSY	2							S
(A=M/#22204)											
4	1	172141-84402-1	LINK,BUCKET(YELLOW87	1							
4-1	1	172141-84403-1	LINK,BUCKET(YELLOW87	1							R
(A=M/#21609)											
5	2	172141-72561	BUSH (35-45-30	2							
6	2	172171-81280	SEAL, DUST 35X45X4	6							
6-1	2	172448-81610	SEAL, DUST 35X45X4	6							R
(A=M/#21609)											
7	2	172141-82270	BUSH 35 45	2							
8	1	172141-84601	SHIM	2							
9	1	24761-020000	NIPPLE, GREASE PT1/8	2							
10	1	24761-020000	NIPPLE, GREASE PT1/8	2							
11	1	26116-100752	BOLT, M10X 75 PLATED	2							
11-1	1	26116-100652	BOLT, M10X 65 PLATED	2							S
(A=M/#22204)											
12	1	26716-100002	NUT, M10	4							
13	1	172171-81500	COLLAR, 35X48.6X22	2							W
(A=M/#22204)											

Fig.83. BUCKET

(A)=VIO20-2(US)
(B)=
(C)=

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



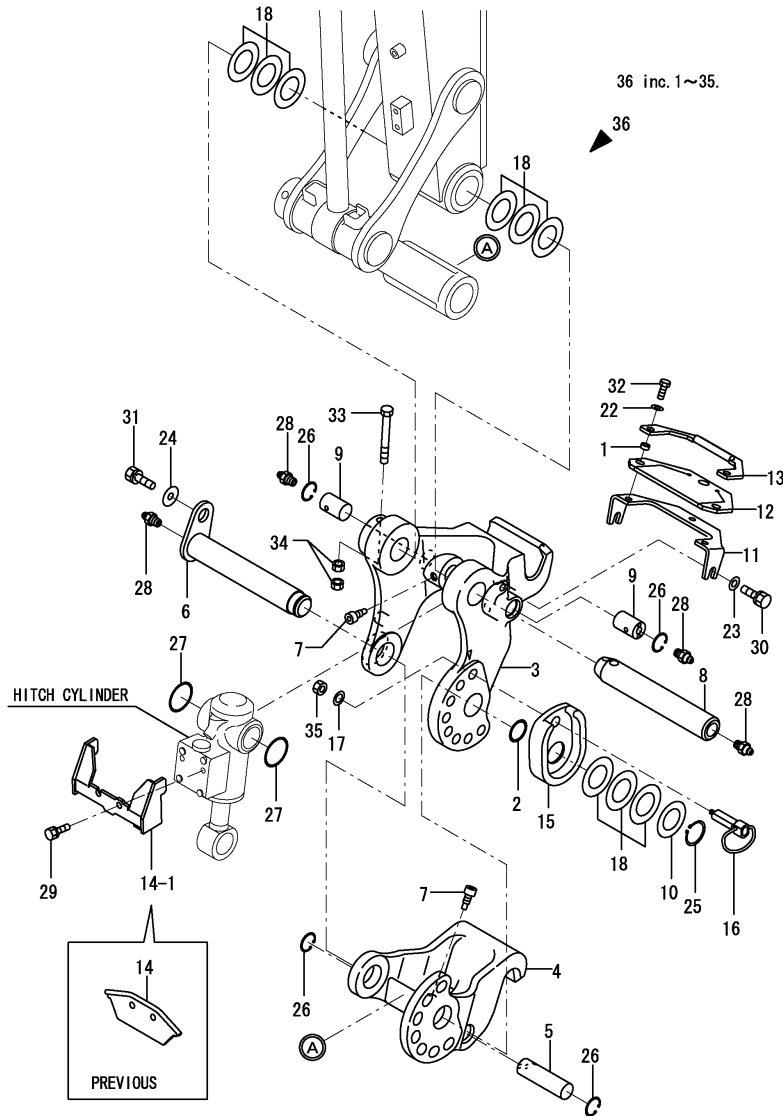
No.	Lev.	Parts No.	Description	(A)	(B)	Qty			I	R
						(C)	(D)	(E)	(F)	
1	1	172456-82900	PIN KIT, BUCKET	2						
2	2	172171-81500	COLLAR, 35X48.6X22	2						
3	2	172141-84601	SHIM	2						
7	2	172141-86252	PIN 35-195	2						
8	2	24761-020000	NIPPLE, GREASE PT1/8	2						
9	2	26116-100652	BOLT, M10X 65 PLATED	2						
10	2	26716-100002	NUT, M10	4						
11	1	172456-82500-1	BUCKET ASSY, 490S	1						
11-1	1	172456-82501-1	BUCKET ASSY, 490S	1						R
(A=M/#21609)										
12	2	172458-82240-1	CUTTER, SIDE	1						
13	2	172458-82260-1	CUTTER, SIDE	1						
14	2	172458-82280	BOLT M14X 40	6						
15	2	172458-82290	NUT	6						
17	3	172458-82230-1	ADAPTER	3						
17-1	3	172448-82530-1	ADAPTER	3						R
(A=M/#21609)										
18	2	22217-140000	WASHER, SPRING 14	6						
19	2	172165-86500-1	TOOTH KIT, POINT	3						
19-1	2	172448-82950	TOOTH KIT, POINT	3						R
(A=M/#21609)										
20	3	172151-81600-2	TOOTH, POINT	3						
20-1	3	172448-82570-1	TOOTH, POINT	3						R
(A=M/#21609)										
21	3	172151-81620	PIN ASSY, LOCK	3						
21-1	3	172448-82960	PIN ASSY, LOCK	3						R
(A=M/#21609)										
22	4	172151-81630	PIN	3						
22-1	4	172448-82580	PIN, LOCK	3						R
(A=M/#21609)										
23	4	172151-81640	LOCK, RUBBER BIN	3						
23-1	4	172448-82590	RUBBER, PIN	3						R
(A=M/#21609)										
24	1	772458-82230-1	TOOTH ASSY	1						
24-1	1	772448-82530-1	TOOTH ASSY	1						R
(A=M/#21609)										
29	1	172956-81600	PIN KIT, BUCKET (QUICK)	2						1
30	2	172171-81500	COLLAR, 35X48.6X22	2						
31	2	172956-83120	PIN 35-195 ASSY	2						
32	2	172141-84601	SHIM	2						
36	2	26116-100652	BOLT, M10X 65 PLATED	2						
37	2	26716-100002	NUT, M10	4						

Remarks
(1) QUICK COUPLER SPEC.

Fig.84. QUICK COUPLER

(A)=VIO20-2(US)
(B)=
(C)=

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



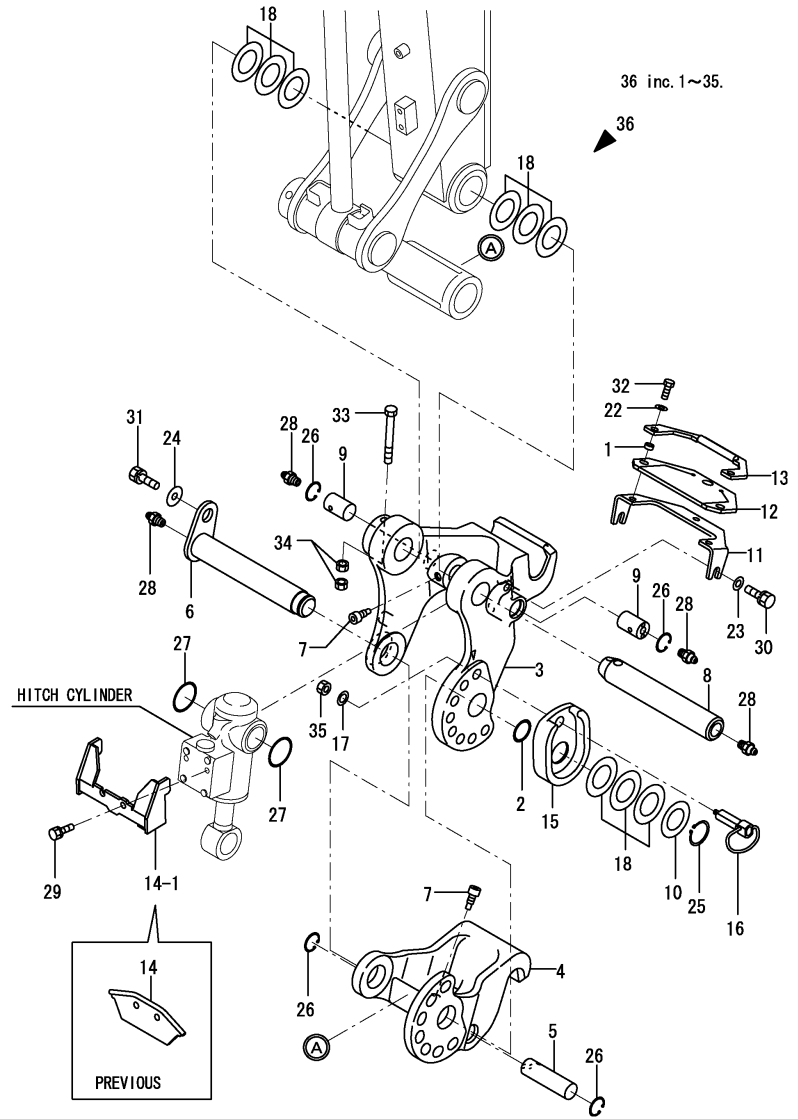
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R
1	1	172958-17120	COLLAR		2							
1-1	1	172958-17120	COLLAR		3							K
(A=M/#20980)												
2	1	172124-46200	O-RING		1							
3	1	172956-83100-1	BRACKET A(YELLOW:87)		1							
3-1	1	172956-83101-1	BRACKET A(YELLOW:87)		1							N
(A=M/#20945)												
3-2	1	172956-83102-1	BRACKET A(YELLOW:87)		1							N
(A=M/#25895)												
4	1	172956-83110-1	BRACKET B(YELLOW:87)		1							
4-1	1	172956-83111-1	BRACKET B(YELLOW:87)		1							N
(A=M/#20945)												
4-2	1	172956-83112-1	BRACKET B(YELLOW:87)		1							N
(A=M/#25895)												
5	1	172958-83130	PIN 25X86		1							
5-1	1	172958-83131	PIN 25X86		1							N
(A=M/#XXXXXX)												
6	1	172956-83140	PIN ASSY 35X213.5		1							
7	1	172958-83140	BOLT		3							
8	1	172956-83160	PIN 35X218		1							
9	1	172956-83200	PIN 25-38		2							
10	1	172956-83220	COLLAR, 32.5X55X2.3		1							
10-1	1	172956-83221	COLLAR, 32.5X55X1.2		1							N
(A=M/#21050)												
11	1	172956-83250-1	GUARD ASSY		1							
11-1	1	172956-83252-1	GUARD ASSY		1							N
(A=M/#20980)												
12	1	172956-83280	PLATE, RUBBER		1							
12-1	1	172956-83281	PLATE, RUBBER		1							N
(A=M/#20980)												
13	1	172956-83290-1	PLATE (YELLOW:87)		1							
13-1	1	172956-83291-1	PLATE (YELLOW:87)		1							N
(A=M/#20980)												
14	1	172956-83310-1	COVER ASSY		1							
14-1	1	172958-83291-1	GUIDE PLATE (87)		1							N
(A=M/#20980)												
14-2	1	172958-83292-1	COVER, HITCH		1							R
(A=M/#25895)												
15	1	172956-83350-1	PLATE,LOCK(YELLOW:87)		1							1
16	1	172956-83361	PIN ASSY, LOCK		1							2
17	1	172956-83381	WASHER, 6.4X14X1.5		1							
18	1	172141-84601	SHIM		3							
22	1	22137-080000	WASHER, 8		2							
22-1	1	22137-080000	WASHER, 8		3							K
(A=M/#20980)												
23	1	22137-100000	WASHER, 10		2							
24	1	22157-100000	WASHER, 10		1							
25	1	22242-000320	RING, 32		1							
26	1	22252-000250	RING, 25		4							
27	1	24311-000400	O-RING, 1AP40.0		2							
28	1	24761-020000	NIPPLE, GREASE PT1/8		4							

Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.84B
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.84A
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.84. QUICK COUPLER

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
29	1	26013-080162	BOLT, M8X 16	2							
30	1	26013-100202	BOLT, M10X 20	2							
31	1	26013-100252	BOLT, M10X 25	1							
32	1	26116-080202	BOLT, M8X 20 PLATED	2							
32-1	1	26116-080202	BOLT, M8X 20 PLATED	3							K
(A=M/#20908)											
33	1	26116-100802	BOLT, M10X 80 PLATED	1							
34	1	26716-100002	NUT, M10	2							
35	1	26756-060002	NUT, LOCK M6	1							
36	1	172956-08700	QUICK HITCH ASSY	1							W
(A=M/#21118)											
84A	1	172958-03160	LABEL	1							3
84B	1	172458-03240	LABEL,LOCK	1							3

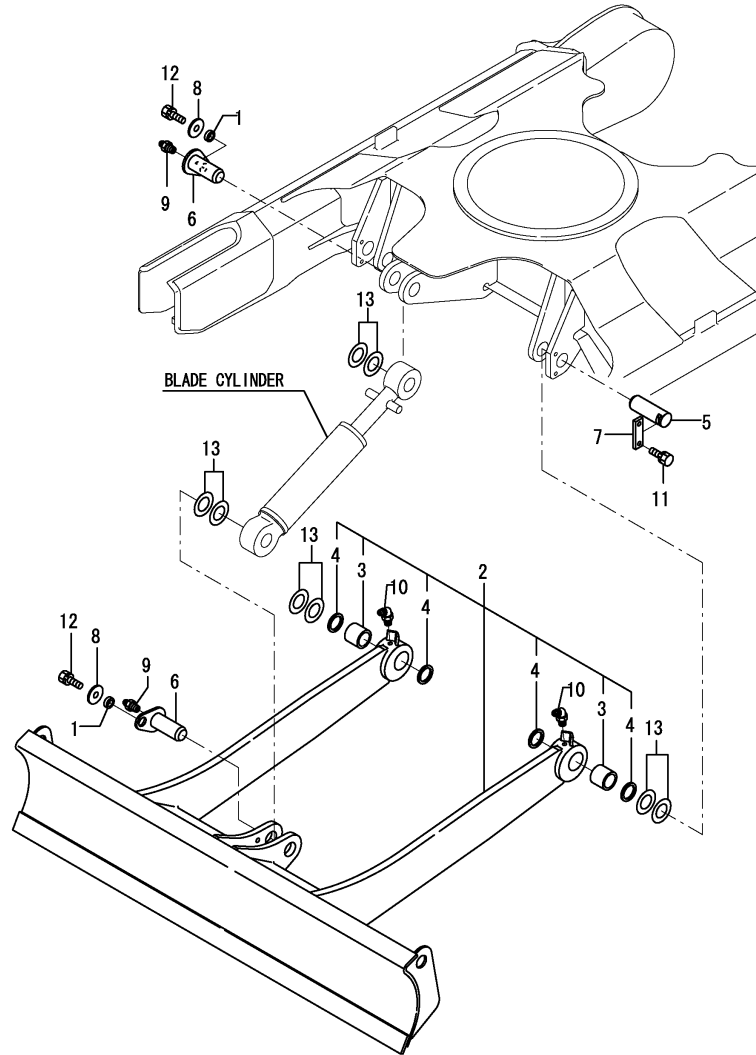
Remarks
 (1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.84B
 (2)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
 REF.NO.84A
 (3)LABELS ARE NOT ILLUSTRATED.

Fig.85. BLADE

P/C NEWS No.:Y00S4102-3
PUBLISHED:2007/06

(A)=VIO20-2(US)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81670	SPACER	2							
2	1	172456-94100-1	BLADE (GEEEN:82)	1							1
2-1	1	172456-94101-1	BLADE (GREEN:82)	1							R
(A=M/#21609)											
2-2	1	172456-94090-1	BLADE (GREEN:82)	1							N
(A=XXX)											
3	2	172168-72240	BUSH 38X50X40	2							
4	2	172168-81270	SEAL, DUST	4							
5	1	172422-94210	PIN 38X 114	2							
6	1	172141-94271	PIN 38-94	2							
7	1	172124-94310-2	PLATE,LOCK(GREEN:82)	2							
8	1	22157-120000	WASHER, 12	2							
9	1	24761-020000	NIPPLE, GREASE PT1/8	2							
10	1	24761-040000	NIPPLE, GREASE B	2							
11	1	26013-100252	BOLT, M10X 25	4							
12	1	26013-120302	BOLT, M12X 30	2							
13	1	933171-29751	SHIM SET	4							
16A	1	172437-03510	LABEL,HOOK	2							2

Remarks

(1)PLEASE USE THIS PART WITH FOLLOWING LABELS AT THE SAME TIME.
REF.NO.16A

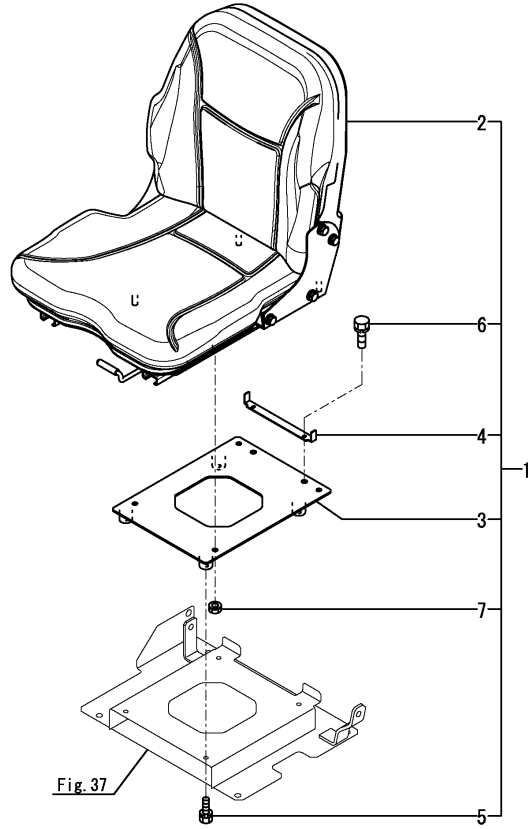
(2)LABELS ARE NOT ILLUSTRATED.

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

Fig.86. SEAT KIT(OPTIONAL)

(A)=VIO20-2(US)
 (B)=
 (C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-08601 (A=*2017.11.)	SEAT KIT,WOOSUNG SP	1							W
2	2	172A23-64050	SEAT ASSY	1							
3	2	172A46-64500	PLATE ASSY, SEAT	1							
4	2	172A46-64521	STOPPER, B	1							
5	2	26013-080202	BOLT, M8X 20	4							
6	2	26014-100202	BOLT, M10X 20	2							
7	2	26051-080002	NUT, M8	4							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101720-55750	11	27
102103-55520	11	22
104200-11920	10	16
104200-55321	11	18
104200-55330	11	19
104200-55341	11	20
104200-55750	11	28
106990-44660	10	31 -2
110250-55610	11	23
119247-77100	14	38
119255-44660	9	33
119650-77910	14	41
119808-12540	6	12
119813-44510	9	25
121250-49121	9	3
121256-44600	9	32
121257-55720	11	24
121257-55731	11	25
124064-55510	11	21
124450-44550	9	31
124764-44810	1	31
	9	43 A
124764-44920	1	32
	9	44 A
124766-59050	9	35
	10	28
	11	32
	65	7
129136-77200	14	39
129155-77810	14	40
129211-77920	14	42
129335-55700	11	17
129612-52100	11	16
129619-12520	6	11
171081-55910	11	29
172010-01640	80	1
	81	1
172068-28490	23	30
		38
	27	1
172110-36010	18	12
	70	8
172110-45050	23	33
		41
172110-76170-1	74	6
172113-12522	7	6
172116-46630	27	10
172116-75850	65	21
172116-76381	68	9
		23

Parts No.	Fig. No.	Ref. No.
172122-14620	11	10
172122-37844	19	11
172122-46590	23	24
	25	30
	27	32
172122-70350	54	26
		27
172122-73430	54	38
172122-73470	54	51
172122-73480	54	61
172122-79930	11	33
	66	20
	68	21
	69	35
	72	16
		17
	74	17
	76	29
172123-76121	69	2
	71	6
	75	1
	76	1
		2
		3
172124-46200	22	3
	23	16
	25	9
	27	31
	84	2
172124-65480	38	18
172124-94310-2	85	7
172125-03950	1	30
	6	20 A
172126-11510	11	15 -1
	13	1
		2
		3
	68	22
	76	14
172126-16540	11	38
	12	21
	13	11
172131-76150	69	7
172137-12270	7	5
172137-16560	11	15
	13	12
172137-46210	15	9
172137-69850	35	16
172137-70490	55	10
172137-70570	55	11

Parts No.	Fig. No.	Ref. No.
172137-70580	55	12
172137-72452	49	10
172137-72453	49	10 -1
	50	9
172137-73860	56	5
172137-76580	74	7
172141-03360	1	22
	14	54 A
172141-37140	19	5
		24
172141-41340	23	1
172141-41360	21	5
	25	5
	26	5
172141-41370	22	6
	23	3
		6
	25	2
	27	23
		26
172141-50762-2	31	1
172141-50763-4	31	1 -1
172141-50890	30	2
172141-57650	30	7
172141-70110	54	21
172141-70150	54	23
172141-70160	54	24
172141-70410	54	55
172141-70420	54	56
172141-70450	54	16
172141-71520	42	66
	43	84
172141-71550	42	67
		132
	43	85
		129
172141-71560	42	68
	43	86
172141-72250	44	25
	48	7
	50	8
	51	12
172141-72420	44	29
	51	16
	52	11
172141-72540	49	19
	50	18
172141-72561	46	14
		21
	47	16

Parts No.	Fig. No.	Ref. No.
172141-72561	47	20
	48	15
	49	14
		17
	50	13
		16
	82	5
172141-73220	42	69
	43	87
172141-73230	42	70
	43	88
172141-73770	65	4
172141-74430	42	39
		118
	43	57
		118
172141-75430	65	12
172141-75440	65	12 -1
172141-76180	67	5
	68	2
		4
	69	11
	71	9
	74	3
	76	4
		11
172141-76220	69	17
172141-76920	68	10
172141-77260	55	36
172141-77400	55	51
172141-77800	77	2
172141-82270	80	8
	81	8
	82	7
172141-84402-1	82	4
172141-84403-1	82	4 -1
172141-84601	80	15
	81	15
	82	8
	83	3
		32
	84	18
172141-86252	83	7
172141-94271	85	6
172142-62300	32	12
172142-72560	45	19
172142-73800	56	7
172142-74590	42	89
172142-74600	42	92

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172142-74650	42	90
172142-74660	42	93
172142-74670	42	99
	43	96
172142-76181	66	3
		5
	68	6
	72	2
172142-76270	73	3
172142-76950	73	15
172142-77040	73	4
172143-72010	44	5
	51	2
172143-72400	51	13
	52	13
172146-41320	32	19
172146-61370	32	6 -1
172146-73730	65	5
172146-82910	79	13
172147-03210	1	14
	41	7 B
172147-70120	54	22
172147-70220	54	3
172147-76260	68	8
172147-76271	69	18
172148-70301	54	14
		25
172148-71580	54	68
172148-72940	45	20
172148-72941	45	20 -1
172148-73350	55	13
172148-73870	56	9
172149-03430	1	23
	41	7 C
172149-13340	40	7 -1
172149-66550	41	2
172151-53430	29	14
172151-77801	77	3
172151-81600-2	83	20
172151-81620	83	21
172151-81630	83	22
172151-81640	83	23
172156-11150	34	8
172156-65690	39	21
172156-72400	53	2
172156-84440	53	7
172157-03740	1	29
	29	29 A
172157-13381	9	16
172157-45840	16	10 -1

Parts No.	Fig. No.	Ref. No.
172157-45990	25	22
	27	7
172157-76300	66	7
172162-12480	26	1
172162-14200	10	5
172162-15320	40	6 -2
172162-46690	22	9
172162-61850	16	9
172162-62540	36	5
172162-70780	54	17
172162-76130	70	3
172162-76131	67	4
	68	23 -1
	70	3 -1
172162-76180	69	13
		15
172164-45970	24	3
172164-61250	32	3
	40	12 -1
172164-66170	38	19
	39	22
172164-66480	37	8
172164-66640	40	16
172164-66650	40	12
172164-66800	32	9
172164-73030	42	79
172164-73040	42	80
172164-73380	42	36
	43	54
172164-73390	42	37
	43	55
172164-73470	42	33
	43	51
172164-73490	42	81
172164-73500	42	82
172164-73510	42	38 -1
	43	56 -1
172164-73670	42	29
	43	47
172164-73990	42	38
	43	56
172164-76131	69	3
172164-76330	69	19
172164-81670	79	6
	80	9
	81	9
	85	1
172165-03231	1	16
	27	44 A
172165-45490	28	1

Parts No.	Fig. No.	Ref. No.
172165-45490	28	5
172165-45970	21	15
172165-46340	25	23
	27	9
172165-47550	22	12
172165-47980	22	16
172165-47990	22	17
172165-53480	29	15
172165-53500	29	16
		25
172165-62800	14	36
172165-65460	34	11
172165-66980	36	19 -1
172165-71200	42	3
	43	3
172165-72310	51	21
172165-74740	42	95
172165-75450	65	13
172165-75460	65	14
172165-75481	65	15
172165-78412	69	32
172165-79810	76	28
172165-81750	44	18
		21
	45	11
		17
	51	19
		22
	80	7
	81	7
172165-81760	29	23
172165-82520	78	2 -1
172165-82530	78	1 -1
172165-82550	78	10
172165-82560	78	11
172165-82570	78	12
172165-82580	78	13
		14
	79	10
	80	12
	81	12
172165-82590	78	15
		16
	79	11
	80	13
	81	13
172165-82600	78	17
		18
	79	12
	80	14

Parts No.	Fig. No.	Ref. No.
172165-82600	81	14
172165-86500-1	83	19
172168-65750	65	8 A-1
172168-71101-3	42	1
	43	1
172168-71500	42	56
	43	74
172168-71510	42	57
		121
	43	75
		121
172168-71520	42	58
	43	76
172168-71530	42	59
	43	77
172168-71950	54	18
172168-72010	52	2
172168-72020	52	3
172168-72030	52	8
172168-72240	52	18
		21
	85	3
172168-72390	44	19 A
172168-72400	79	2
172168-72410	44	17
		20
	45	10
		16
172168-73580	55	17
172168-73590	55	19
172168-73600	55	21
172168-81270	52	19
		22
	85	4
172168-81410	79	3
172171-14610	11	5
172171-54750	29	22
172171-65850	32	8
	40	6
172171-72120	49	8
172171-72130	45	8
	46	12
	47	7
	49	9
172171-81270	80	3
	81	3
172171-81280	46	15
		22
	49	15
		18

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172171-81280	80	5
	81	5
	82	6
172171-81500	82	13
	83	2
		30
172173-11561	6	2
172173-29100-1	18	1
172173-37320	18	5
172173-37500-2	18	13
172173-38220	20	10
		21
172173-38300	20	11
		22
172173-61190-2	31	7
172173-61191-2	31	7 -1
172173-72330	45	12
172173-72351	45	18
172173-72352	45	18 -1
172173-72461	46	13
172173-72490	46	16
172173-72512	46	19
172173-72550	46	23
	47	18
	48	17
172173-72560	46	24
172173-72570	46	25
172173-72580	46	13 -1
172173-73510	55	14
172173-73520	55	15
172173-73570	55	16
172173-73580	55	18
172173-73590	55	20
172173-73600	55	22
172173-73690	55	23
172173-73700	55	24
172173-76101	67	2
	71	3
172173-81700	78	1
172173-81710	78	2
172175-17120	14	9
172175-64810	40	9 -1
172175-72550	52	16
172175-73700	65	2
172175-73710	65	3
172175-76640-1	73	11
172175-76750-5	73	14
172179-13210	8	8
172179-13211	8	8 -1
172179-73130	42	20

Parts No.	Fig. No.	Ref. No.
172179-73130	43	38
172179-73190	42	21
	43	39
172179-73220	42	14
	43	14
172179-73250	42	17
	43	35
172179-73270	42	23
	43	41
172179-73280	42	24
		116
	43	42
		116
172179-73400	42	41
	43	59
172179-73430	42	42
	43	60
172179-73460	42	43
	43	61
172179-73510	42	60
	43	78
172179-73540	42	61
		122
	43	79
		122
172183-03280	1	10
	21	26 A
	22	33 A
172183-14250	10	13
172183-37510	18	14
172183-37520	18	15
172183-57620	30	5
172183-57630	30	6
172183-61360	32	6
172183-65541	9	14
172183-65560	34	6
172183-73520	54	43
172183-73560	54	44
172183-73570	54	45
172183-73660	54	46
172183-73670	54	77
172183-73770	54	71
172183-73780	54	78
172183-73870	54	79
172183-74820	70	1
172183-74820-5	73	1
172183-75410	65	11
172183-76200	76	6
172183-76250-1	73	9
		25

Parts No.	Fig. No.	Ref. No.
172183-81160	80	2
	81	2
172183-81170	79	4
172186-13810	11	1
172186-72480	44	31
172186-77100	77	1
172187-16560	14	1
172187-17070	14	3
172187-17080	14	4
172187-17090	14	5
172187-17100	14	2 -1
172187-17200	14	8
172187-17220	14	11
172187-17280	14	17
172187-17320	14	19
172187-17341	14	21
172187-17350	14	22
172187-17360	14	23
172187-17371	14	24
172187-17380	14	25
172187-17470	14	29
172187-17480	14	30
172187-17540	17	3
172187-17560	14	32
172187-17570	14	33
172187-45650	25	20
	27	4
172187-45651	25	20 -1
	27	4 -1
172187-45760	25	21
	27	5
172187-45870	23	8
172187-45880	23	9
172187-61421	37	38
172187-64830	37	34
172187-64831	37	34 -1
172187-64900	15	11
172187-65210	38	15
172187-75860	42	105
	43	102
172187-75870	42	106
	43	103
172187-75880	42	107
		130
	43	104
		125
172187-75910	42	108
	43	105
172187-75920	42	109
	43	106

Parts No.	Fig. No.	Ref. No.
172187-76210	75	2
172187-76690-1	73	9 -1
172312-17260	67	11
172312-74790	54	80
172312-77820	77	4
172421-37701	19	29
172421-37851	19	15
172421-38110-1	20	2
		13
172421-38600	20	23
172421-72700-1	52	1
172421-72710-1	52	17
172421-72730	52	20
172421-72770	52	24
172421-73350	54	29
172421-73380	54	58
172421-73400	54	49
172421-76100	71	5
172421-78120	71	16
172421-78130	71	17
172421-78131	71	17 -1
172422-13460	9	20
172422-72790-3	52	25
172422-76100	66	2
172422-76130	68	1 -1
172422-76140	69	6
172422-76180	70	4
172422-78200	68	18
172422-78210	67	10
172422-78760	71	11
172422-94210	85	5
172433-64510	37	33
172433-64511	37	33 -1
172434-61190	39	4
172437-03241	1	12
	32	20 A
172437-03250	1	33
	3	1
172437-03300	1	34
	3	2
	37	37 G
172437-03310	1	35
	3	3
	41	7 D
172437-03320	1	36
	3	4
	65	31 C
172437-03321	1	36 -1
	3	4 -1
	65	31 C-1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172437-03340	1	37
	3	5
	41	7 E
172437-03341	1	37 -1
	3	5 -1
	41	7 E-1
172437-03351	1	38
	3	6
	31	29 A
172437-03360	1	39
	3	7
	39	44 B
172437-03371	1	40
	3	8
	41	7 F
172437-03380	1	41
	3	9
	38	35 B
172437-03390	1	42
	3	10
	40	21 A
172437-03400	1	43
	3	11
	38	35 C
172437-03401	1	43 -1
	3	11 -1
	38	35 C-1
172437-03410	1	44
	3	12
	29	30 A
172437-03411	1	44 -1
	3	12 -1
	29	30 A-1
172437-03421	1	45
	3	13
	38	35 D
172437-03431	1	46
	3	14
	79	19 B
172437-03440	1	47
	3	15
	41	7 G
172437-03450	1	48
	3	16
	41	7 H
172437-03460	1	49
	3	17
	79	19 C
172437-03470	1	50
	3	18

Parts No.	Fig. No.	Ref. No.
172437-03470	37	37 H
172437-03500	1	24
	39	44 A
172437-03510	1	25
	80	21 A
	81	24 A
	85	16 A
172437-03530	1	26
	37	37 F
172437-03600	1	11
	3	19
	41	7 I
172437-03610	1	27
	63	18 A
172437-03620	1	28
	63	18 B
172437-74690	63	1
172437-74701	63	3
172437-74711	63	4
172437-74720	63	5
172437-74731	63	6
172437-74732	63	6 -1
172437-74750	63	7
172438-03300	1	19
	35	22 A
172441-44320	36	15
172441-74030	64	2
		12
172441-74040	64	3
		13
172441-74050	64	14
172444-13210	9	1
172444-14130	10	22
		12
		13
172444-14200	10	6
172444-14260	10	27 -1
172444-14270	10	17
172444-14410	10	26
172444-14450	10	7
172444-14460	10	8
172444-14470	10	9
172444-14480	10	10
172444-14490	10	11
172444-16110	12	1
172444-54910	40	11 -1
		18
172444-54920	39	3
	40	2
		9
172444-64730	38	3

Parts No.	Fig. No.	Ref. No.
172444-73802	56	1
172444-73810	56	2
172444-73831	56	3
172444-73840	56	4
172444-73880	56	6
172444-76140	68	1
172444-76150	69	8
172444-76400	66	9
172444-82990	79	14
172446-75250	65	21 -1
172447-14160	10	4
172447-74221	60	12
172447-74230	57	16
	60	13
		15
172447-75600	65	16
172448-45800	27	6 -1
172448-54120	29	23 -1
172448-72650	44	18 -1
		21 -1
	45	11 -1
		17 -1
	51	19 -1
		22 -1
	80	7 -1
	81	7 -1
172448-81610	47	17
		21
	48	16
		20
	49	15 -1
		18 -1
	50	14
		17
	80	5 -1
	81	5 -1
	82	6 -1
172448-82530-1	83	17 -1
172448-82570-1	83	20 -1
172448-82580	83	22 -1
172448-82590	83	23 -1
172448-82950	83	19 -1
172448-82960	83	21 -1
172449-72310	47	8
172449-72320	47	9
172449-72321	48	8
172449-72410	47	12
	48	11
172450-73330	54	28
172450-73510	54	64

Parts No.	Fig. No.	Ref. No.
172450-73550	54	75
172450-73620	54	4
172455-13610	40	6 -1
172455-18640	31	17
172455-46890	22	10
172455-46950	22	11
172455-61720	21	9
172455-64200	37	1
172455-64600	37	2
		2 -1
172455-64610	37	2 A
		2 A-1
172455-65230	39	1
172455-65490	65	8 A
172455-65970	40	11
172455-75290	65	17
172455-75300	65	18
172455-75320	65	9
172455-75330	65	10
172455-76220	75	4
172455-79770	72	13
		15
172456-08600	37	1 -1
		1 -2
172456-08601	86	1
172456-11310	6	1
172456-11480	6	5
172456-11490	6	6
172456-11500	6	7
172456-11510	6	8
172456-11520	6	13
172456-11590	6	9
172456-11600	6	10
172456-12120	7	3
172456-12160	7	4
172456-13100	8	2
172456-13110	8	3
172456-13120	8	4
172456-13130	8	5
172456-13140	8	6
172456-13150	8	7
172456-13300	9	5
172456-13310	9	6
172456-13320	9	7
172456-13330	9	8
172456-13340	9	10
172456-13341	9	10 -1
172456-13350	9	15
172456-13380	9	17
172456-13381	9	17 -1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172456-13450	9	19
172456-13451	9	19 -1
172456-13460	9	21
172456-13470	9	12
172456-13480	9	13
		13 -1
172456-13500	9	22
172456-13501	9	22 -1
172456-14150	10	3
172456-14151	10	3 -1
172456-14300	10	18
172456-14330	10	20
172456-14340	10	21
172456-14341	10	21 -1
172456-14610	11	6
172456-14630	11	11
172456-14650	10	27
172456-16100	12	12
172456-16101	12	12 -1
172456-16200	12	3
172456-16210	12	6
172456-16500	13	4
172456-16501	13	4 -1
172456-16502	13	4 -2
172456-16530	13	10
172456-17400-1	17	1
172456-17401-3	17	1 -1
172456-37100-1	19	2
172456-37110-1	19	21
172456-37120	19	3
		22
172456-37130	19	4
		23
172456-37140	19	6
		25
172456-37320	18	6
172456-37500-1	18	10
172456-37800	19	10
172456-37801	19	10 -1
172456-38100-1	20	1
172456-38110-1	20	9
172456-38120-1	20	12
172456-38130	20	20
172456-38300-1	20	24
172456-38310-1	20	29
172456-45160	25	28
172456-50100-1	30	1
172456-50101-1	30	1 -1
172456-50102-1	30	1 -2
172456-50800-1	30	9

Parts No.	Fig. No.	Ref. No.
172456-50830-1	30	10
172456-53300-1	29	1
172456-53320-1	29	6
172456-53340-1	29	10
172456-53360-1	29	13
172456-53700	29	14 -1
172456-54090-1	29	21 -2
172456-54100-1	29	21
172456-54101-1	29	21 -1
172456-57600	30	4
172456-61100-1	31	2
172456-61110-1	31	3
172456-61130-1	31	5
172456-61150	32	1
172456-61151	32	1 -1
172456-61152	32	1 -2
172456-61153-2	32	1 -3
172456-61200-1	31	8
172456-61260-1	31	12
172456-61340	32	4
172456-61400-1	34	1
172456-61480	34	3
172456-61490	34	4
172456-61500	34	5
172456-61690	34	7
172456-61691	34	7 -1
172456-61962-1	33	1
172456-61963-1	33	1 -1
172456-62100-1	35	1
172456-62200	35	3
172456-62800	35	17
172456-64440	37	12
172456-64640	32	13
172456-65150	38	12
172456-65170	38	13
172456-65171	38	13 -1
172456-65190	38	14
172456-65191	38	14 -1
172456-65300-1	39	2
172456-65301-1	39	2 -1
172456-65302-1	39	2 -2
172456-65440	39	8
172456-65441	39	8 -1
172456-65450	39	9
172456-65460	39	10
172456-65461	39	10 -1
172456-65510	39	12
172456-65511-1	39	12 -1
172456-65511-3	39	12 -2
172456-65520	39	13

Parts No.	Fig. No.	Ref. No.
172456-65700	40	1
172456-65701	40	1 -1
172456-65750	40	8
172456-65751	40	8 -1
172456-65770	40	13
172456-65790	40	4
		4 -1
172456-65800	40	5
172456-65820	40	17
172456-65850	40	15
172456-65860	40	7
172456-65890	39	3 -1
172456-67210	29	26
172456-72010	44	8
172456-72020	45	2
172456-72030	46	2
172456-72031	47	2
		48 2
172456-72040	46	8
172456-72050	51	5
172456-72110-1	44	16
172456-72130	44	19
172456-72190	44	22
		51 11
172456-72200-1	44	1
172456-72300-1	45	1
172456-72310-1	45	9
172456-72330	45	15
172456-72500-1	46	1
172456-72501-1	47	1
172456-72502-1	48	1
172456-72511	46	20
172456-72512-1	47	15
		48 14
172456-72560	47	19
172456-72561	48	18
172456-72580	48	21
172456-72610	46	20 -1
172456-72700-1	51	1
172456-72710-1	51	17
172456-72740	51	20
172456-72790-1	51	24
172456-72830	51	26
172456-73070	42	112
		43 109
172456-73100	42	5
172456-73110	42	6
		43 6
172456-73120	42	7
		43 7

Parts No.	Fig. No.	Ref. No.
172456-73130	42	8
		43 8
172456-73140	42	9
		113
		43 9
		110
172456-73150	42	10
		114
		43 10
		111
172456-73160	42	11
		43 11
172456-73170	42	12
		43 12
172456-73180	42	13
		43 13
172456-73280	42	22
		43 40
172456-73290	42	25
		43 43
172456-73300	54	1
172456-73310	55	1
172456-73320	54	89
172456-73330	54	52
172456-73340	54	20
172456-73350	54	30
172456-73360	54	31
172456-73370	54	32
172456-73380	54	33
172456-73390	54	34
172456-73400	54	35
172456-73410	54	36
172456-73420	54	37
172456-73430	54	39
172456-73440	54	40
172456-73450	54	41
172456-73460	54	50
172456-73490	54	59
172456-73500	54	63
172456-73510	54	65
172456-73520	54	66
172456-73540	54	67
172456-73550	54	69
172456-73560	54	70
172456-73570	54	76
172456-73580	42	83
		43 18
172456-73590	42	84
		43 19
172456-73600	42	27

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172456-73600	43	45
172456-73610	42	28
		117
	43	46
		117
172456-73650	42	40
	43	58
172456-73660	42	44
	43	62
172456-73670	42	45
	43	63
172456-73680	42	46
	43	64
172456-73690	42	47
	43	65
172456-73700	42	48
	43	66
172456-73710	42	49
	43	67
172456-73720	42	50
	43	68
172456-73730	42	51
	43	69
172456-73740	42	55
	43	73
172456-73750	42	62
	43	80
172456-73770	42	63
	43	81
172456-73790	42	65
	43	83
172456-73800	42	71
	43	89
172456-73810	42	72
	43	90
172456-73840	42	73
	43	91
172456-73850	42	74
	43	92
172456-73860	42	78
172456-73870	43	20
172456-73880	42	85
	43	21
172456-73890	43	22
172456-73900	42	86
	43	23
172456-73910	43	24
172456-73920	43	25
172456-73930	42	87
		125

Parts No.	Fig. No.	Ref. No.
172456-73930	43	26
		112
172456-73940	43	27
172456-73950	43	28
172456-73960	42	88
		126
	43	29
		113
172456-73970	43	30
172456-74100	57	1
172456-74101	57	1 -1
172456-74110	62	2
172456-74120	62	3
172456-74130	61	3
172456-74140	61	4
172456-74150	60	2
172456-74160	60	4
172456-74170	59	2
172456-74180	59	6
172456-74190	58	2
172456-74200	28	6
172456-74230	58	6
172456-74240	58	16
172456-74260	57	4
172456-74270	61	17
172456-74280	57	18
	58	26
172456-74290	60	16
172456-74310	61	2
172456-74320	60	1
172456-74330	60	14
172456-74350	59	15
172456-74370	58	15
172456-74380	57	3
172456-74390	57	17
172456-74400	59	16
172456-74410	57	7
172456-74420	57	8
172456-74430	57	3 -1
172456-74440	57	16 -1
172456-75390	65	8 C
172456-75430	42	100
	43	97
172456-75440	42	101
	43	98
172456-75450	42	102
	43	99
172456-75460	42	103
	43	100
172456-75480	42	104

Parts No.	Fig. No.	Ref. No.
172456-75480	43	101
172456-76100	69	1
172456-76250	73	2
172456-76260	73	2 A
172456-76600-1	73	10
172456-76601-1	73	10 -1
172456-76650-1	73	12
172456-76651-1	73	12 -1
172456-76700	73	5
172456-76800-2	70	9
172456-76880-2	70	10
172456-77050	55	53
172456-77100	55	2
172456-77110	55	3
172456-77130	55	7
172456-77140	55	9
172456-77150	55	25
172456-77160	55	26
172456-77170	55	27
172456-77180	55	28
172456-77190	55	29
172456-77200	55	30
172456-77210	55	31
172456-77220	55	32
172456-77230	55	33
172456-77240	55	34
172456-77250	55	35
172456-77270	55	37
172456-77280	55	38
172456-77290	55	39
172456-78100	66	16
172456-78101	66	16 -1
172456-78111	66	17
172456-78120	66	18
172456-78130	66	19
172456-78140	67	9
172456-78150	68	16
172456-78160	69	25
172456-78170	68	17
172456-78180	72	8
172456-78190	72	9
172456-78200	68	19
172456-78210	68	20
172456-78220	72	10
172456-78230	72	11
172456-78241	72	12
172456-78251	72	14
172456-78260	69	26
172456-78270	69	27
172456-78280	69	28

Parts No.	Fig. No.	Ref. No.
172456-78290	71	18
172456-78291	71	18 -1
172456-78300	71	19
172456-78301	71	19 -1
172456-78311	71	20
172456-78312	71	20 -1
172456-78910	73	24
172456-78970	70	16
172456-81090-1	79	1 -2
172456-81102-1	79	1
172456-81103-1	79	1 -1
172456-81450	79	5
172456-81500-1	80	4
172456-81650	80	6
	81	6
172456-81710	79	7
172456-81740	79	8
172456-81770	80	10
	81	10
172456-81810	80	11
	81	11
172456-81900	78	3
172456-82300-1	78	5
172456-82330	78	6
172456-82340	78	7
172456-82360	78	8
172456-82400	78	9
172456-82500-1	83	11
172456-82501-1	83	11 -1
172456-82700-1	82	1
172456-82701-1	82	2 -1
172456-82710-1	82	1 -1
		2
172456-82830	82	3
172456-82831	82	3 -1
172456-82900	83	1
172456-94090-1	85	2 -2
172456-94100-1	85	2
172456-94101-1	85	2 -1
172457-65100-1	38	6
172457-65110	38	9
172457-65120	38	11
172457-72050	49	2
	50	2
172457-72190	44	23
172457-72200	44	24
172457-72230-1	44	2
172457-72240-1	44	3
172457-74190	61	5
172458-03160	1	5

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172458-03160	38	35 A
172458-03220	1	15
	36	21 A
172458-03240	1	17
	2	12
	27	45 A
	84	84 B
172458-12100	7	1
172458-13320	9	9
172458-13390	9	18
172458-14201	10	12
172458-14202	10	12 -1
172458-14340	10	24
172458-14370	10	25
172458-16110	12	2
172458-16140	12	4
172458-16300	12	16
172458-16550	13	6
172458-16560	13	13
172458-16561	13	13 -1
172458-17100	14	2
172458-17400	17	5
172458-17410-1	17	7
172458-17420	17	6
172458-17450	17	2
172458-17500	14	15
172458-17501	14	15 -1
172458-45180	25	1
172458-45200	25	4
172458-45230	25	7
	27	21
172458-45250	23	23
172458-45510	21	2
172458-45521	25	18
172458-45540	25	19
	27	3
172458-45600	28	2
172458-45720	24	2
172458-45800	24	9
172458-45810	24	10
172458-45850	22	2
172458-45920	26	4
172458-45950	26	7
172458-46150	27	30
172458-46720	14	34
	36	1
		2
		3
		4
172458-46950	21	16

Parts No.	Fig. No.	Ref. No.
172458-47640	22	15
172458-47680	21	17
172458-47710	21	18
172458-50480-1	30	2 -1
172458-53330	29	9
172458-53370	29	4
172458-61110-1	31	4
172458-61150-2	31	6
172458-61260	31	15
172458-61261	31	15 -1
172458-61300	32	11
172458-61500	39	5
172458-61540	32	10
172458-62110	35	2
172458-62430	35	14
172458-63100	36	6
172458-63120	36	7
172458-63130	36	8
172458-63140	36	9
172458-64140	34	10
172458-64590	37	16
172458-64600	37	17
		17 -1
172458-64610	34	18
172458-65050	38	4
172458-65060	38	5
172458-65070	38	7
172458-65080	38	8
172458-65271	38	16
172458-65530	39	14
172458-65540	39	15
172458-65560	39	16
172458-65580	39	17
172458-65600	39	18
172458-65610	39	19
172458-65640	39	20
172458-72740	51	18
172458-73820	56	8
172458-74110	62	13
172458-74120	62	14
172458-74130	58	3
	59	3
	60	18
	61	20
	62	15
172458-74140	58	4
	59	4
	60	19
	61	21
	62	16

Parts No.	Fig. No.	Ref. No.
172458-74150	57	20
	58	17
	60	3
		20
	61	22
	62	4
		17
172458-74160	57	21
	58	18
	60	5
		21
	61	23
	62	5
		18
172458-74170	58	5
	59	5
	60	28
	61	24
	62	19
172458-74230	57	22
	58	19
	59	18
	60	6
	61	6
	62	6
172458-74240	57	23
	58	20
	59	19
	60	7
	61	7
	62	7
172458-74250	57	24
	58	22
	60	8
	61	8
	62	8
172458-74260	57	25
	58	23
	59	20
	60	9
	61	9
	62	9
172458-74290	57	5
	58	7
	59	7
	61	10
172458-74360	57	6
	58	8
	59	8
	61	11

Parts No.	Fig. No.	Ref. No.	
172458-74380	61	19	
172458-74390	61	25	
172458-74420	60	17	
172458-74430	60	22	
172458-74460	58	9	
	59	9	
172458-74520	59	17	
172458-74530	59	21	
172458-74540	59	22	
172458-74550	59	23	
172458-74610	57	19	
172458-74620	57	26	
172458-74630	57	27	
	58	24	
	60	10	
		23	
		61	26
		62	10
			20
172458-74640	57	9	
	58	13	
	59	10	
	61	12	
172458-74650	57	10	
	61	27	
172458-74660	61	13	
172458-74670	61	14	
172458-74700	62	25	
172458-74720	57	2	
	58	1	
	59	1	
	60	29	
	61	1	
	62	1	
172458-74730	57	29	
172458-74740	61	33	
172458-74750	62	12	
172458-74780	61	18	
172458-76150	69	9	
172458-76680-1	73	13	
172458-78091	66	15	
172458-78290	69	29	
172458-78300	69	30	
172458-78310	69	31	
172458-78530	69	33	
172458-78540	69	34	
172458-81751-1	79	9	
172458-81920	78	4	
172458-82230-1	83	17	
172458-82240-1	83	12	

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172458-82260-1	83	13
172458-82280	83	14
172458-82290	83	15
172460-16590	16	1
172460-45160	16	7
172460-72070	44	5 -1
	51	2 -1
	52	8 -1
172460-75410	65	12 -2
172462-03320	1	20
	9	42 A
172462-46230	27	8
172463-03290	1	18
	65	31 B
172463-03330	1	21
	39	43 A
172463-17210	16	4
172463-17260	16	5
172463-61600	31	20
172463-65410	39	7
172463-74510	64	1
172463-74511	64	1 -1
172463-74520	64	11
172463-74521	64	11 -1
172463-74530	64	4
		15
172463-74540	64	5
		16
172463-74551	64	6
		17
172463-74561	64	7
		18
172463-74570	64	8
		19
172463-74580	64	9
		9 -1
		10 A
172463-74590	64	10
172469-03110	1	8
	37	37 C
172469-03111	1	8 -1
	37	37 C-1
172469-03120	1	2
	34	19 A
	65	31 A
172469-03121	1	2 -1
172469-03130	1	3
	3	20
	41	7 A
172469-03131	1	3 -1

Parts No.	Fig. No.	Ref. No.
172469-03131	3	20 -1
	41	7 A-1
172469-03140	1	4
	37	37 A
172469-03150	2	2
	4	1
	41	7 J
172469-03151	2	2 -1
	4	1 -1
	41	7 J-1
172469-03152	2	2 -2
	4	1 -2
	41	7 J-2
172469-12110	7	2
172469-16520	13	9
172469-16521	13	9 -1
172469-16522	13	9 -2
172469-16523	13	9 -3
172469-16524	13	9 -4
172469-45100	23	2
172469-45140	23	5
172469-45360	27	28
172469-62210	35	4
172469-62500	35	15
172469-64290	37	9
172469-64700	37	18
172469-65500	39	11
172469-66300	41	1
172469-72400-1	44	4
172469-72410	44	26
172469-76110	69	41
	70	2
172469-78100	76	15
172469-78110	76	16
172469-78120	76	17
172469-78130	76	18
172469-78140	76	19
172469-78150	76	20
172469-78170	76	22
172469-78180	75	6
172469-78190	75	7
172469-78200	75	8
172469-78210	76	23
172469-78220	76	24
172469-78230	76	25
172469-78240	76	26
172469-78510	73	20
172469-78520	73	21
172469-78530	73	22
172469-78540	73	23

Parts No.	Fig. No.	Ref. No.
172469-78550	70	13
172469-78560	70	14
172469-78570	70	15
172472-03140	1	9
	3	21
	37	37 D
172472-03160	1	6
	37	37 B
172472-03170	1	13
	37	37 E
172472-03171	1	13 -1
	37	37 E-1
172472-03230	2	3
	81	24 B
172472-03240	2	4
	4	2
	34	19 B
172472-03250	2	5
	34	19 C
172472-03260	2	6
	4	3
	81	24 C
172472-03270	2	7
	4	4
	79	19 D
172472-03280	2	8
	4	5
	79	19 E
172472-03290	2	9
	15	12 A
172472-03300	2	10
	15	12 B
172472-17200	16	3
172472-17250	16	7 -1
172472-17260	16	21
172472-17400	16	4 -1
172472-17470	16	5 -1
172472-45300	27	22
172472-45330	27	25
172472-45400	21	1
172472-45401	21	1 -1
172472-45500	27	2
172472-45550	23	20
172472-45580	23	21
172472-45600	23	20 -1
172472-45601	23	29
172472-45620	23	21 -1
172472-45621	23	37
172472-45660	23	15
172472-45661	23	15 -1

Parts No.	Fig. No.	Ref. No.
172472-45700	24	1
172472-45720	23	31
172472-45730	23	39
172472-45810	23	32
172472-45850	23	40
172472-45900	26	3
172472-45960	27	6
172472-46210	21	3
172472-46220	22	4
172472-46600	22	5
172472-46800	21	4
172472-46801	21	4 -1
172472-47601	22	13
172472-47620	22	14
172472-61350	31	16
172472-61351	31	16 -1
172472-63210	36	10
172472-63220	36	11
172472-64530	36	16
172472-64531	36	16 -1
172472-64540	36	17
172472-64541	36	17 -1
172472-64600	22	31
172472-74200	63	17
172472-78160	76	21
172472-78800	76	27
172487-13300	9	5 -1
172487-13450	9	18 -1
172487-13460	9	20 -1
172487-13500	9	9 -1
172487-14520	11	10 -2
172487-45600	28	2 -1
172487-45900	26	3 -1
172487-74200	28	6 -1
172487-76200	69	5 -1
172487-76410	66	9 -1
172487-78260	69	28 -1
172490-03200	1	23 -1
	41	7 C-1
172496-03250	1	16 -1
172511-17351	16	6
172519-17112	16	2
172519-63240	14	37
	36	12
		13
		14
172519-76130	69	5
172524-03271	1	7
	79	19 A
172524-17330	14	6

Parts No. Index

Parts No.	Fig. No.	Ref. No.
172638-73330	54	19
172644-76161	71	7
172648-16600	13	7
172650-73450	42	26
	43	44
172652-64220	37	36 -1
172725-16160	12	15
172730-05250	30	8
172730-75141	66	1
	67	1
	71	1
	72	1
172734-14620	9	23
172734-41300	25	27
	27	19
172734-65270	38	17
172823-45000	27	20
172823-45940	25	29
172956-08700	84	36
172956-72500-1	49	1
172956-72501-1	50	1
172956-72511-1	49	13
	50	12
172956-72530	49	16
172956-72531	50	15
172956-72560	50	21
172956-72800-1	53	1
172956-72810-1	53	3
172956-72830	53	6
172956-72860	53	8
172956-72880	53	5
172956-72890	53	11
172956-72900	53	12
172956-72910	53	17
172956-73100	43	5
172956-73110	43	16
172956-73120	43	17
172956-73121	43	17 -1
172956-76100-1	74	5
172956-78100	74	12
172956-78110	74	13
172956-78120	74	16 -2
172956-81500-1	81	4
172956-81501-1	81	4 -1
172956-81600	83	29
172956-81900-1	74	8 -1
172956-81901-1	74	8 -2
172956-83100-1	84	3
172956-83101-1	84	3 -1

Parts No.	Fig. No.	Ref. No.
172956-83102-1	84	3 -2
172956-83110-1	84	4
172956-83111-1	84	4 -1
172956-83112-1	84	4 -2
172956-83120	83	31
172956-83140	84	6
172956-83160	84	8
172956-83200	84	9
172956-83220	84	10
172956-83221	84	10 -1
172956-83250-1	84	11
172956-83252-1	84	11 -1
172956-83280	84	12
172956-83281	84	12 -1
172956-83290-1	84	13
172956-83291-1	84	13 -1
172956-83310-1	84	14
172956-83350-1	84	15
172956-83361	84	16
172956-83381	84	17
172957-78111	74	14
172957-78150	72	7
172958-03160	2	11
	84	84 A
172958-17100	15	1
172958-17101	15	1 -1
172958-17120	84	1
		1 -1
172958-17140	15	4
172958-17150	15	5
172958-17160	15	6
172958-17170	15	7
172958-17180	15	8
172958-17190	15	8 A
172958-17200	15	8 B
172958-17210	15	8 C
172958-64500	15	10
172958-72950	53	20
172958-72960	53	21
172958-72981-1	53	22
172958-72982-1	53	22 -1
172958-76130	74	1
172958-78120	74	15
172958-78160	74	16
172958-78200	74	15 -1
		16 -1
172958-81900-1	74	8
172958-83130	84	5
172958-83131	84	5 -1
172958-83140	84	7

Parts No.	Fig. No.	Ref. No.
172958-83291-1	84	14 -1
172958-83292-1	84	14 -2
172989-64450	37	32
172989-64451	37	32 -1
172989-73150	42	84 -1
	43	19 -1
172989-73160	42	83 -1
	43	18 -1
172A23-14100	11	10 -1
172A23-37750	19	14 A
172A23-64050	86	2
172A46-64200	37	1 A
172A46-64500	37	1 C
	86	3
172A46-64520	37	1 B
172A46-64521	86	4
172A46-75500	65	11 -1
		13 -1
172A77-17500	14	53
172A79-12150	7	1 A
194145-04810	8	1
	38	1
		2
194151-57100	14	35
194200-37780	25	26
	27	18
194273-47910	63	2
194440-51620	13	14
194464-52190	14	51
	16	8
	21	19
194680-51670	12	22
194940-24350	30	3
1A1040-43900	26	2
1A1040-45890	25	8
	27	29
1A1040-56900	7	8
1A1380-59480	13	26
1A1380-62160	38	26 -1
1A6240-37360	54	2
1C6281-52310	7	7
1D4070-23580	21	14
	22	1
1E6140-73420	18	5 -1
22117-040000	23	10
22117-080000	23	25
	25	31
	27	33
22117-100000	66	10
22137-060000	7	9

Parts No.	Fig. No.	Ref. No.
22137-060000	9	36
	11	34
	14	43
	64	20
22137-080000	6	14
	12	7
	16	10
	21	10
	22	18
		19
	23	35
		43
	27	11
	36	18
	38	34 -1
	39	27
	84	22
		22 -1
22137-100000	6	15
	9	37
		37 -1
	10	29
	12	17
	13	15
	16	11
	17	8
	25	24
		24 -1
	27	12
		12 -1
	31	21
	32	14
		14 -1
	34	12
		12 -1
	35	7
	37	19
		20
	38	24
		25
	39	28
		29
	84	23
22137-120000	13	16
	34	13
	35	8
	37	21
		22
		35
		35 -1

Parts No. Index

Parts No.	Fig. No.	Ref. No.
22137-140000	65	28
22137-240000	63	8
22157-060000	12	18
22157-080000	38	26
		34
22157-100000	34	14
	35	9
	39	30
		30 -1
	80	16
	81	19
	84	24
22157-120000	78	19
	79	15
	80	17
	81	20
	85	8
22217-050000	13	17
22217-060000	32	15
22217-080000	11	35
	12	8
		9
	37	24
22217-100000	6	16
	8	9
	25	10
	27	34
	44	32
		33
	51	27
22217-120000	13	18
	31	22
	41	3
22217-140000	65	29
	83	18
22217-160000	29	17
		27
	41	4
22242-000200	42	15
	43	15
22242-000250	22	20
22242-000300	19	7
		26
22242-000320	84	25
22242-000451	56	12
22242-000500	78	20
22252-000250	84	26
22252-000280	28	3
		7
22252-000520	18	7

Parts No.	Fig. No.	Ref. No.
22252-000720	19	8
		27
22272-000070	22	21
22312-060120	42	30
	43	48
22351-030028	15	8 D
22351-030032	21	20
	24	4
22351-035040	22	22
22351-050032	21	21
	24	5
22351-060040	22	23
22417-160160	23	26
	24	12
	25	32
	27	35
22417-200200	22	24
	38	27
		28
	39	31
22417-250200	25	25
		25 -1
	27	13
		13 -1
22417-320200	32	16
23000-013000	10	14
	69	36
		37
	75	9
23000-060000	6	17
23001-016000	69	38
		39
		42
23001-035000	69	40
23001-041000	9	38 -1
23001-060000	66	21
23001-070000	66	22
23010-038000	9	38
23080-013000	10	31 -1
		32
23391-020000	76	13
23393-020000	71	12
23393-040000	69	1 -1
	70	5
23418-060000	11	30
23871-005000	52	23
	53	23
23871-010000	55	8
	63	9
23871-020000	56	13

Parts No.	Fig. No.	Ref. No.
23871-040000	73	6
24101-060024	54	81
24101-060044	54	82
24101-062054	18	8
24101-062074	19	9
		28
24311-000060	57	11
	58	28
	59	24
24311-000090	42	52
		119
	43	70
		119
24311-000120	58	10
	59	11
	60	24
	61	28
	62	21
24311-000160	9	4
	42	96
		129
	43	31
		114
24311-000180	42	53
		120
	43	71
		120
	57	33
	58	27
	59	25
	60	30
	61	34
24311-000210	21	22
	24	6
	25	11
	26	8
	27	36
24311-000250	63	10
24311-000320	63	11
24311-000340	22	25
24311-000380	65	22
24311-000400	84	27
24311-000750	56	10
24311-240100	11	31
24315-000060	42	75
		123
	43	93
		123
24315-000080	42	91
		127

Parts No.	Fig. No.	Ref. No.
24315-000080	43	127
	57	12
	61	15
24315-000090	57	31
24315-000100	57	32
24315-000110	42	94
		128
	43	128
	57	13
		28
	58	11
		25
	59	12
	60	11
		25
	61	16
		29
	62	11
		22
	67	3
		6
	68	3
		5
	69	10
		12
		14
		16
		20
		21
		22
	71	4
		10
		13
	74	2
		4
	75	3
		5
	76	5
		7
		8
		9
		10
		12
24315-000120	54	74
24315-000140	19	12
	42	111
		131
	43	108
		126
	57	14

Parts No. Index

Parts No.	Fig. No.	Ref. No.		
24315-000140	61	30		
	66	4		
		6		
	67	11		
		7		
	68	8		
		7		
		11		
		12		
		13		
		14		
		15		
		69	43	
		70	6	
		71	8	
		72	14	
			15	
	3			
		4		
5				
6				
15				
8				
4				
24315-000180	57	15		
	66	8		
	69	4		
24315-000300		23		
	19	16		
	66	12		
24321-000400	66	12		
24321-000450	42	18		
	43	115		
		36		
		115		
	24321-000700	56	11	
		24321-000900	42	76
			124	
	43	94		
		124		
	24321-001050	65	23	
24341-000300	65	24		
24550-025150	22	8		
	53	10		
24550-030300	46	18 -1		
24550-035300	45	14 -1		
	47	14		
	48	13		
	49	21 -1		
	50	20		
24550-040300	44	28 -1		
	51	15 -1		
	52	15 -1		
24761-020000	19	13		

Parts No.	Fig. No.	Ref. No.	
24761-020000	23	17	
	25	12	
		44	30
	53	24	
		77	5
	82	9	
		10	
	83	8	
		84	28
	85	9	
		25	13
	24761-040000	27	37
		29	24
		45	23
		46	26
		47	22
48		22	
49		22	
50		22	
80		18	
81		21	
85	10		
24761-050000	22	26	
	23	18	
	27	38	
	51	23	
	79	16	
26013-060122	14	44	
	45	45	
		46	
		16	12
	26013-060162	9	39
14	47		
	48		
26013-060202	63	12	
	64	21	
	11	36	
	14	49	
	50	50	
26013-060302	64	21 -1	
	23	45	
26013-060352	23	22	
26013-080122	16	17 -1	
26013-080162	7	10	
	9	40	
	41	41	
	13	19	
	16	13	
21	11		
	23	23	

Parts No.	Fig. No.	Ref. No.	
26013-080162	22	27	
	25	14	
		26	9
	27	39	
	33	2	
	65	25	
	74	9	
		10	
	84	29	
	26013-080202	6	18
		10	33
		16	14
21		12	
22		28	
26		10	
		36	19
37		1 D	
65		26	
86		5	
26013-080252	16	14 -1	
	63	15	
26013-080502	74	11	
	7	11	
26013-100162	13	20	
	29	18	
26013-100202	57	34	
	8	10	
	9	24	
	10	24 -1	
		34	
	12	19	
	13	21	
	21	27	
		13	13
	22	25	
22	30		
27	32		
	40		
28	8		
31	23		
26013-100252	24	24	
	32	17	
	34	17 -1	
	34	15	
	35	10	
26013-100302	10	-1	
	37	1 E	
	15	11	
	18	16	

Parts No.	Fig. No.	Ref. No.
26013-100202	37	25
	39	26
		32
		33
		34
		35
		36
	40	36 -1
		20
		20 -1
		52
		63
66		13
	69	24
	70	11
	78	21
	84	30
26013-100252	7	12
	8	11
		12
		16
		16
		18
	23	19
	34	16
	35	11
		21
23		
37	27	
38	29	
	30	
	31	
	32	
39	37	
	38	
	39	
	54	88
	66	14
	70	7
	12	
	73	7
	8	
	80	19
	81	22
	84	31
	85	11
	18	11
26013-100302	42	2
	43	2
	18	16
26013-100352	18	16

Parts No. Index

Parts No.	Fig. No.	Ref. No.
26013-100352	28	9 -1
	31	25
	35	12
	56	14
26013-100402	19	17
	28	4 -1
	56	15
26013-120252	18	9
	37	28
	78	22
	79	17
	80	20
	81	23
26013-120302	34	17
	35	13
	37	29
	42	133
	43	130
	73	16
	85	12
26013-120352	30	11
26013-120402	55	52
	73	17
26013-120502	73	17 -1
		18
26013-120552	73	19
26013-120602	73	18 -1
		19 -1
26014-080162	79	18
26014-080202	17	4
26014-080252	65	22 -1
		25 -1
26014-100202	86	6
26014-100252	66	13 -1
26022-050102	65	27
26022-050122	10	15 -1
	63	13
26022-080162	9	34
26051-080002	23	27
	24	13
	25	33
	27	41
	37	1 F
	86	7
26076-120402	41	5
26076-160402	41	6
26106-080552	6	3
26106-100162	31	26
	39	40
26106-100202	31	27

Parts No.	Fig. No.	Ref. No.
26106-100352	28	4
		9
26107-100162	30	12
26116-060122	32	18
26116-080162	12	10
26116-080202	24	7
	84	32
		32 -1
26116-080254	24	7 -1
	25	15
	27	14
26116-080702	11	37
26116-100162	44	34
		35
		51
26116-100202	25	16
	27	42
26116-100404	23	11
26116-100604	23	12
26116-100652	82	11 -1
	83	9
		36
26116-100752	82	11
26116-100802	84	33
26116-120162	13	22
26116-120252	31	28
26116-121102	78	23
26116-140352	65	30
26116-160452	29	19
		28
26116-160652	29	20
26206-141502	78	24
26346-100002	17	9
26347-080002	23	36
		44
		27
		15
		39
		41
26347-100002	38	33
	39	42
26366-080002	6	4
26367-100002	10	30
26450-040102	42	97
	43	32
26450-050102	58	12
	59	13
	60	26
	61	31
	62	23
26450-050122	42	110
	43	107

Parts No.	Fig. No.	Ref. No.
26450-050182	58	14
	59	14
	60	27
	61	32
	62	24
26450-060122	42	19
	43	37
26450-060202	42	54
		64
	43	72
		82
26450-060352	53	25
26450-080202	42	31
	43	49
	54	87
26450-080302	42	98
	43	33
26450-080402	42	32
	43	50
26450-100252	42	77
	43	95
26450-120402	42	4
	43	4
26557-050122	10	15
26577-080122	36	20
26587-040122	23	13
26647-060202	63	14
26716-040002	13	23
26716-050002	13	24
26716-060002	12	20
26716-080002	12	11
	16	17
	24	8
	25	17
	27	16
	37	31
	57	30
26716-100002	6	19
	8	13
	23	14
	82	12
	83	10
		37
	84	34
26716-120002	78	25
26716-140002	78	26
26756-060002	84	35
26757-050002	24	11
26757-100002	27	17
26776-180002	14	52

Parts No.	Fig. No.	Ref. No.
26776-180002	16	18
	21	24
29420-050000	14	12
29420-150000	14	13
29420-300000	14	14
772448-82530-1	83	24 -1
772456-14110	10	1
772456-14111	10	1 -1
772456-37100-1	19	1
772456-37110-1	19	20
772456-37300-1	18	3
772456-37301-1	18	3 -1
772456-75090-1	65	1
772456-75091-1	65	1 -1
772456-75092	65	1 -2
772458-82230-1	83	24
772469-03100	1	1
772469-03130	2	1
772469-64210	37	3 -1
772469-64211	37	3 -2
772469-64212	37	3 -3
772469-64213	37	3 -4
772469-64214	37	3 -5
933110-00301	14	6 -1
933110-54100	23	28
	24	14
	25	34
	27	43
933111-01600	45	14
	49	21
933111-01800	46	18
933111-26600	52	12
933125-59600	49	23
	50	23
933126-38600	19	18
933135-14600	44	28
	51	15
	52	15
933147-03400	44	36
	51	29
933152-02710	65	6
933152-09280	16	19
933168-14170	44	37
	51	30
933168-55770	16	20
	24	15
933170-01490	37	36
933171-13691	19	19
933171-15801	13	25
933171-29751	85	13