

0CS10-M52900EN

Precautions

1. Some of the illustrations in this parts catalog are simplified.
2. Depending on the specifications of your product, the actual product and parts catalog may not match.
3. Please use genuine parts when repairing the product.
4. When ordering spare parts, please confirm the specifications (model name, serial number, part number, quantity, etc.) and confirm with your distributors or dealers.
5. Please refer to the user manual or service manual for information on how to replace parts, technical information, and other related details.
6. If you are using a booklet or PDF parts catalog, you must verify the latest information via the online parts catalog.

Disclaimer

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- 2) The illustrations of the products listed in this parts catalog (including 3D images) are for image purposes only and may differ from the actual product and specifications.
- 3) This parts catalog does not guarantee conformity to the customer's requirements.
- 4) In addition to the previous items, we do not guarantee the accuracy, completeness, assurance, applicability, usefulness, availability, safety or reliability of this parts catalog.

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P R E F A C E

1. This Parts Catalog carries Yanmar excavator (crawler back-hoe) Vio30-5B for Korea.

2. Parts catalog history

		Parts catalog NO.	Published	Remarks
1st edition	Vehicle	000Y00S5290	Apr. , 2008	
	Engine	000Y00B7501		

3. Model name

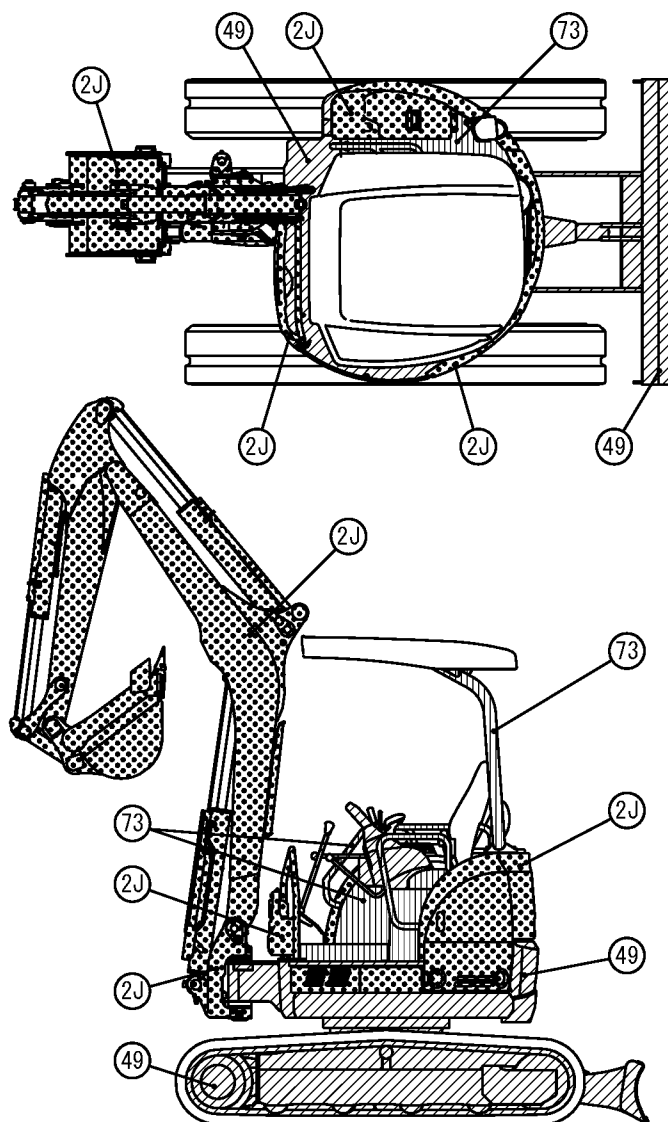
SECTION	Column	Model name	M/#	Manufactured
I (Vehicle)	(A)	Vio30-5B P (KR)	53001 ~	2008/3 ~
II (Engine)	(A)	3TNV82A-NBV2	58904 ~	2008/3 ~

(Note) P: Canopy KR: Korea

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

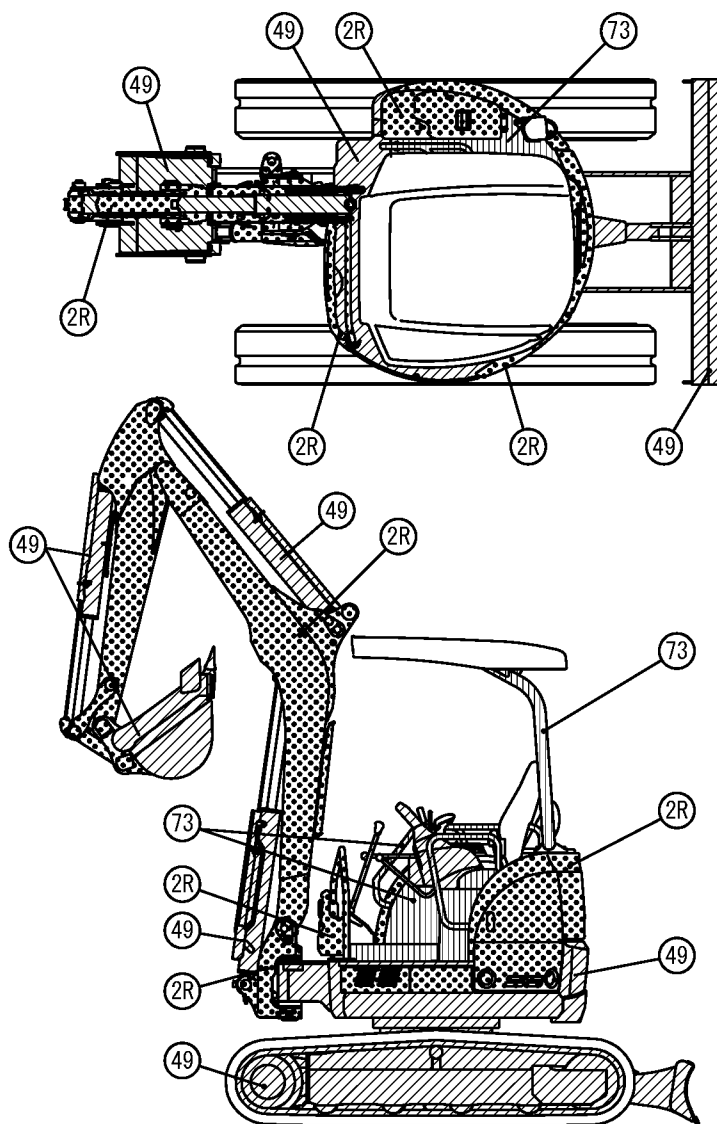
Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.

VEHICLE PAINTED COLOR(1) (TO M56000)



Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
2J		YANMAR New Permanent Yellow 2	981101-09520	977620-40871	977620-30872
73		YANMAR Warm Gray	-----	-----	TOR-94800730

VEHICLE PAINTED COLOR(2) (FROM M56001)

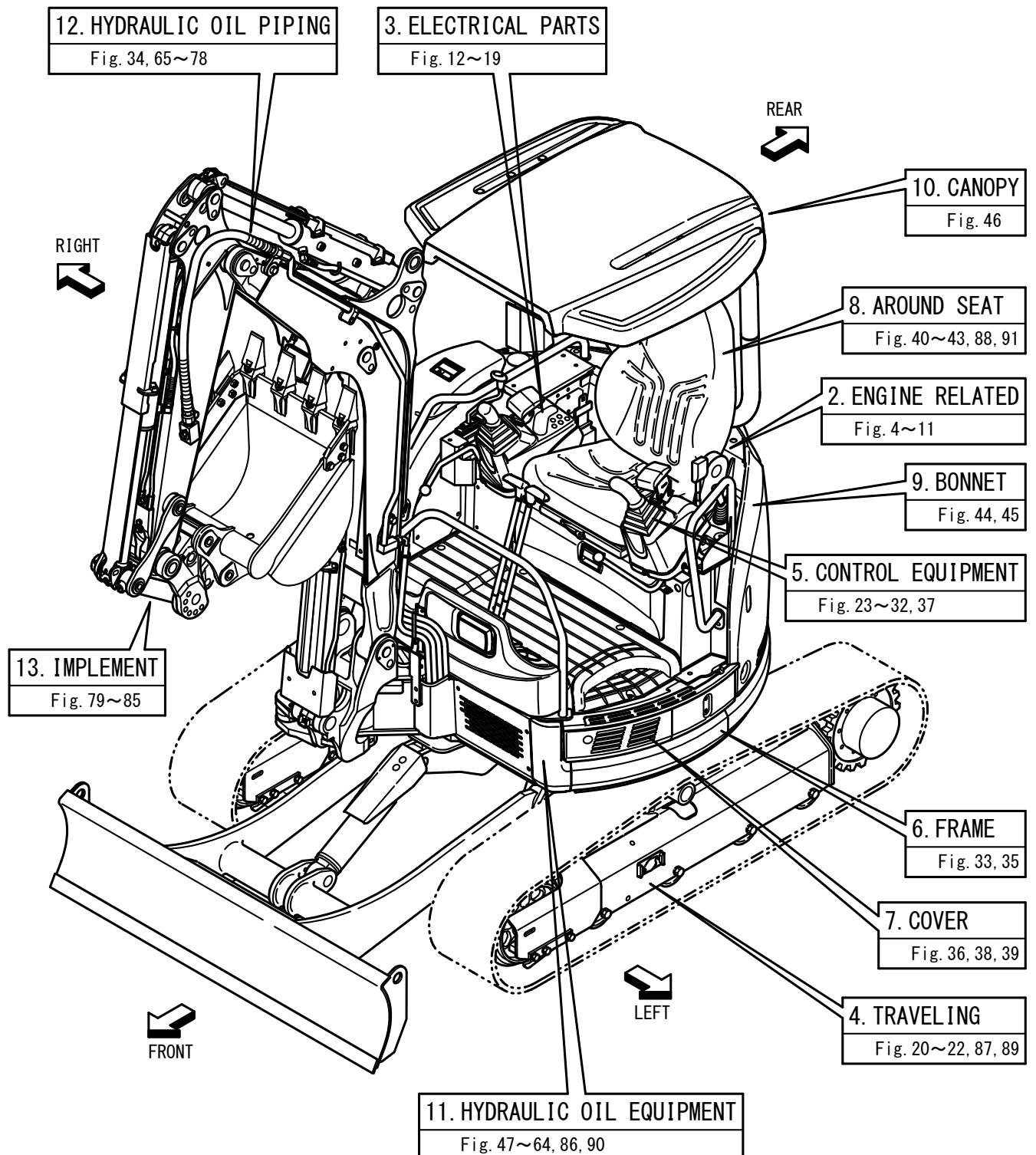


Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
2R		YANMAR Turmeric Yellow	-----	977620-41001	977620-41002
73		YANMAR Warm Gray	-----	-----	TOR-94800730

PICTURESQUE INDEX (1) ■ ■ ■ MAIN PARTS

1. LABEL & ACCESSORY

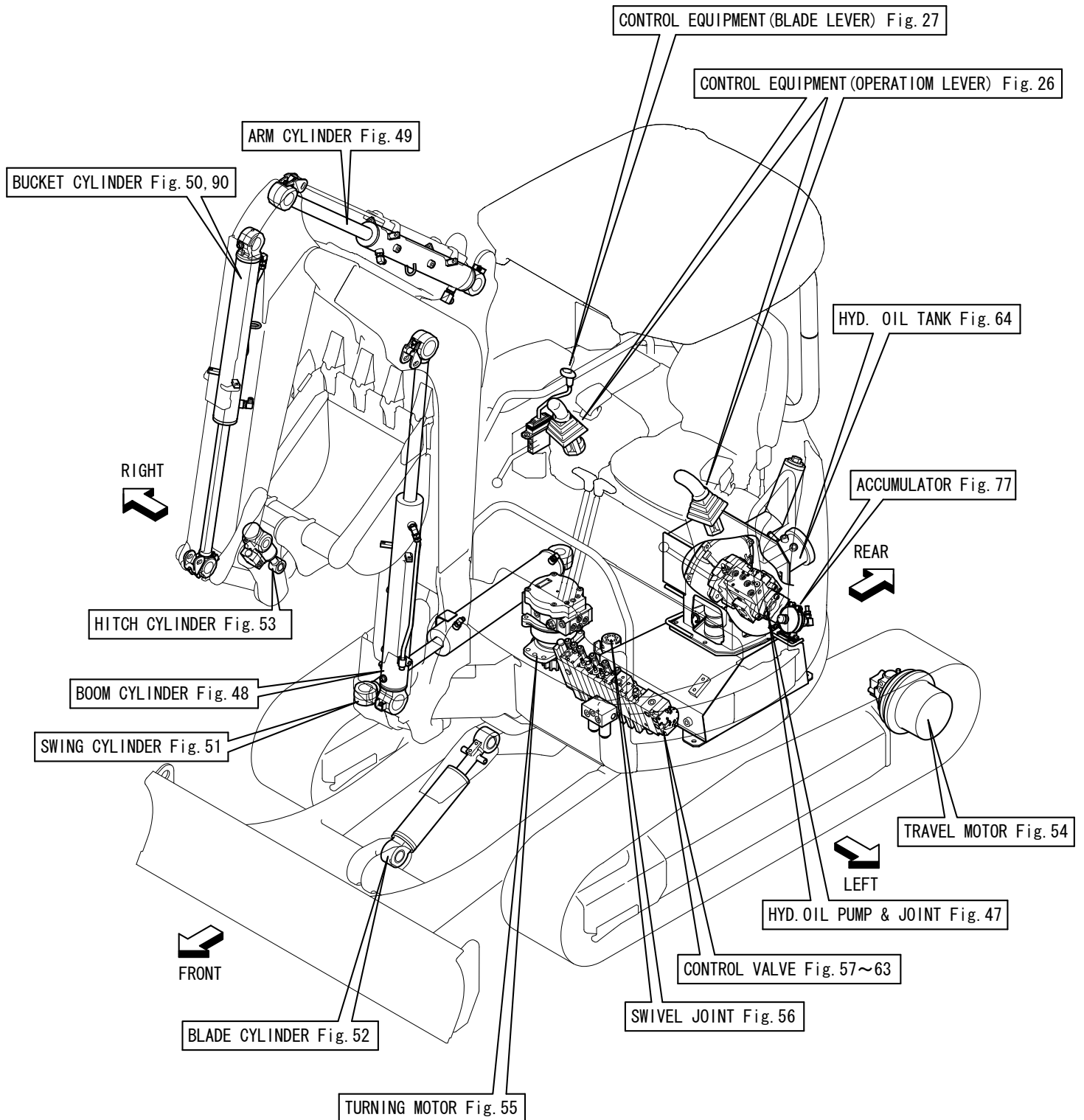
Fig. 1~3



PICTURESQUE INDEX (2) ■ ■ ■ HYDRAULIC SECTION

HYD. OIL PIPING Fig. 65~76

CONTROL PIPING Fig. 78



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Fig. No. Fig. Name

LABEL & ACCESSORY

1. LABEL
2. SAFETY LABEL
3. REPAIR PARTS

ENGINE RELATED

4. MUFFLER & AIR CLEANER
5. ACCELERATOR
6. ENGINE MOUNT
7. RADIATOR SHURAUD
8. RADIATOR & SUB-TANK
9. DUCT
10. FUEL TANK
11. FUEL LINE

ELECTRICAL PARTS

12. BATTERY
13. ELECTRIC PART(AROUND ENGINE)
14. ELECTRIC PART(AROUND FRAME)
15. ELECTRIC PART(STARTING SWITCH)
16. ELECTRIC PART(AROUND SEAT)
17. ELECTRIC PART(TRAVEL ALARM)
18. ELECTRIC PART(WORK LAMP)
19. ELECTRIC PART(QUICK COUPLER : SWITCH BOX)

Fig. No. Fig. Name

TRAVELING

20. SPROCKET & ROLLER
89. (20A)TRACK ROLLER(K SPEC.)
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22. CRAWLER
87. (22A)CRAWLER(FROM M54582)

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23. CONTROL EQUIPMENT(LOCK LEVER & STAND : RIGHT)
24. CONTROL EQUIPMENT(LOCK LEVER & STAND : LEFT)
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26. CONTROL EQUIPMENT(OPERATION LEVER)
27. CONTROL EQUIPMENT(BLADE LEVER)
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Fig. No. Fig. Name

COVER

- 36. COVER(FRONT)
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- 39. COVER(BONNET)

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- 40. STEP & FLOOR MAT
- 41. INSTRUMENT PANEL
- 42. SEAT MOUNT
- 43. SEAT & HANDRAIL(TO 2012.01)
- 88. (43A)SEAT(U SPEC.)
- 91. (43B)SEAT(INNER PARTS)(U SPEC.)

BONNET

- 44. BONNET(1)
- 45. BONNET(2)

CANOPY

- 46. CANOPY

HYDRAULIC OIL EQUIPMENT

- 47. HYDRAULIC PUMP & JOINT(QUICK COUPLER SPEC.)
- 86. (47A)HYDRAULIC PUMP & JOINT(WITHOUT QUICK COUPLER SPEC.)
- 48. BOOM CYLINDER
- 49. ARM CYLINDER

Fig. No. Fig. Name

- 50. BUCKET CYLINDER(Y SPEC.)
- 90. (50A)BUCKET CYLINDER(K SPEC.)
- 51. SWING CYLINDER
- 52. BLADE CYLINDER
- 53. HITCH CYLINDER
- 54. TRAVEL MOTOR
- 55. TURNING MOTOR
- 56. SWIVEL JOINT
- 57. CONTROL VALVE(1/7)
- 58. CONTROL VALVE(2/7)
- 59. CONTROL VALVE(3/7)
- 60. CONTROL VALVE(4/7)
- 61. CONTROL VALVE(5/7)
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- 63. CONTROL VALVE(7/7)
- 64. HYD.OIL TANK

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- 65. HYD.OIL PIPING(TANK - PUMP, CONTROL VALVE)
- 66. HYD.OIL PIPING(CONTROL VALVE - TURNING MOTOR)
- 67. HYD.OIL PIPING(CONTROL VALVE : FITTING)
- 68. HYD.OIL PIPING(CONTROL VALVE - BOOM, SWING)
- 69. HYD.OIL PIPING(CONTROL VALVE - BOOM CYLINDER)
- 70. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT)

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Fig. No. Fig. Name

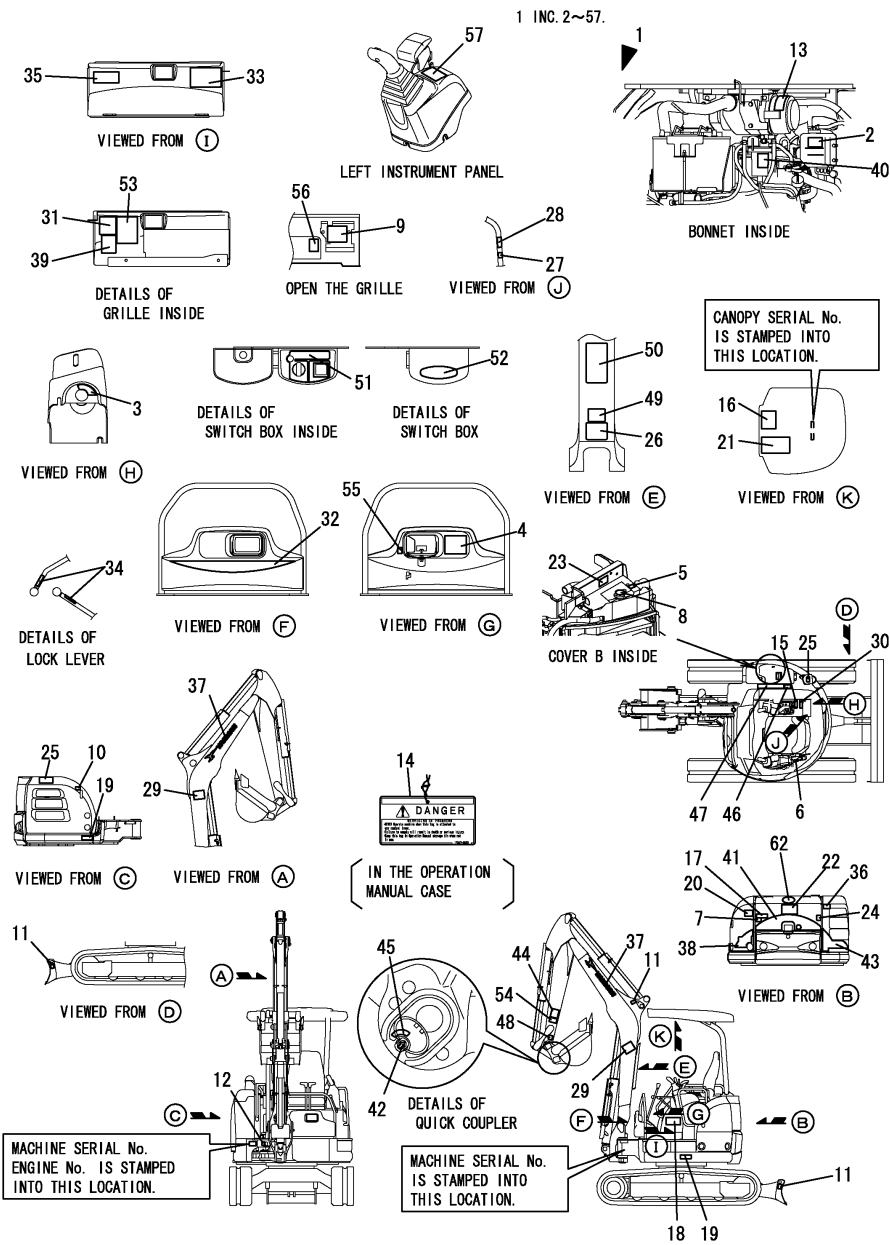
- 71. HYD.OIL PIPING(TRACK FRAME)
- 72. HYD.OIL PIPING(BOOM)
- 73. HYD.OIL PIPING(P.T.O. : PEDAL)
- 74. HYD.OIL PIPIN(P.T.O. : CONTROL VALVE - BOOM)
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- 76. HYD.OIL PIPING(QUICK COUPLER)
- 77. ACCUMULATOR
- 78. CONTROL PIPING

Fig. No. Fig. Name

IMPLEMENT

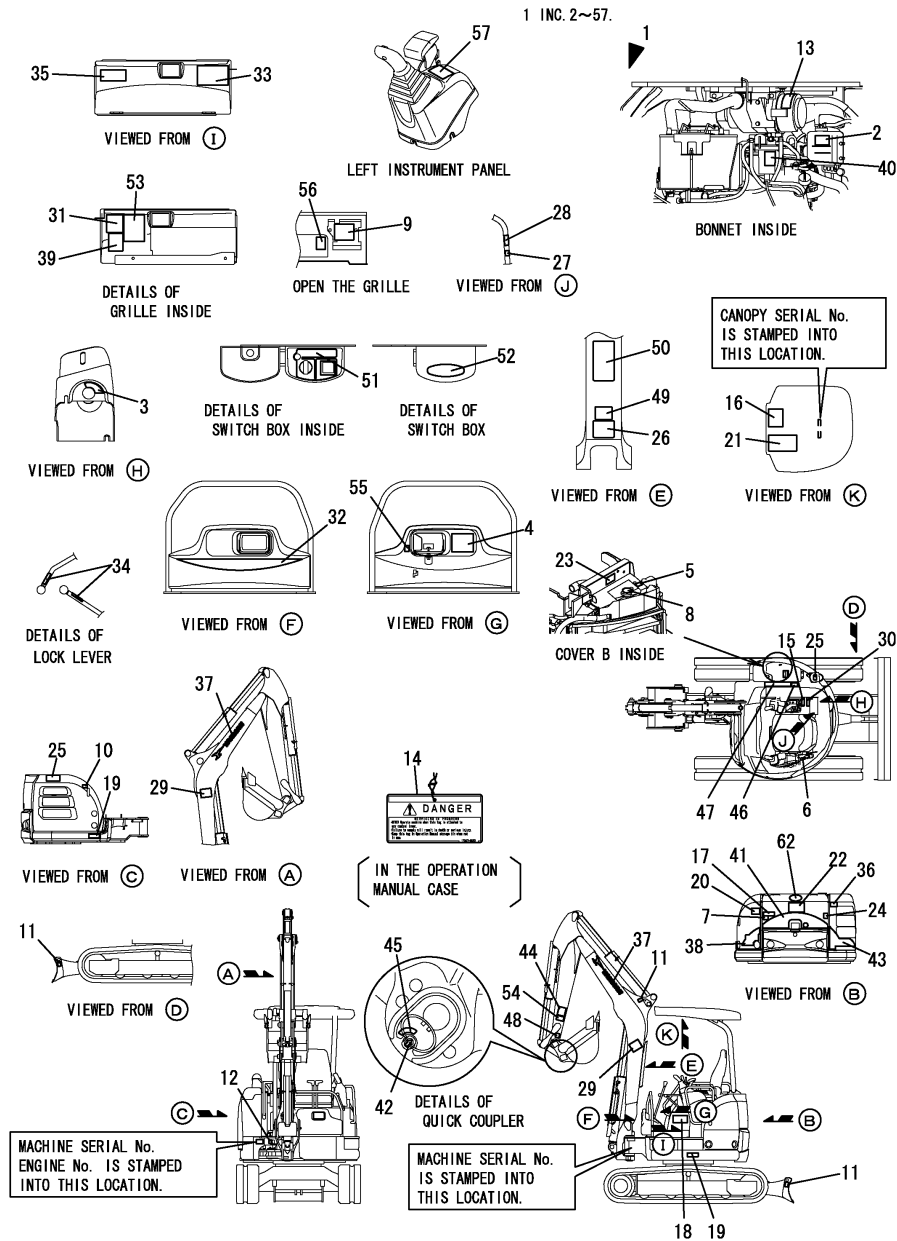
- 79. BOOM BRACKET
- 80. BOOM
- 81. ARM
- 82. BUCKET ARM & LINK
- 83. QUICK COUPLER
- 85. (83A)BUCKET PIN(QUICK COUPLER)
- 84. BLADE

Fig.1. LABEL



Remarks
(1)RUBBER CRAWLER SPEC.
(2)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.38-1,43-1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A85-03300	SET,LABEL VIO30-5BKR	1							
1-1	1	772A85-03301	SET,LABEL VIO30-5BKR	1							S
(A=M56001)											
2	2	172A38-03201	LABEL, SUB TANK	1							
3	2	172A64-03700	LABEL, START SWITCH	1							
4	2	172A90-03200	LABEL, OPERATION	1							
5	2	172A38-03211	LABEL, ANTI-FREEZING	1							
6	2	172A58-03220	LABEL, ACCELERATOR	1							
7	2	172A63-03290	LABEL, HYD.OIL	1							
8	2	172A62-03320	LABEL, RADIATOR	1							
9	2	172A47-03340	LABEL, FUSE	1							
10	2	172A37-03501	LABEL, FUEL	1							
11	2	172A37-03511	LABEL, HOOK	3							
12	2	172156-03740	LABEL, GREASE	1							
13	2	172125-03951	LABEL, AIR CLEANER	1							
14	2	172437-03252	TAG ASSY, CAUTION	1							
15	2	172437-03302	LABEL, MANUAL	1							
16	2	172437-03312	LABEL, SLOPE	1							
17	2	172437-03322	LABEL, RESEVOIR	1							
18	2	172437-03343	LABEL, TRANSPORT	1							
19	2	172437-03352	LABEL, CYLINDER	2							
20	2	172437-03361	LABEL, BATTERY	1							
21	2	172437-03372	LABEL, NEUTRAL	1							
22	2	172437-03381	LABEL, SWING AREA	1							
23	2	172437-03391	LABEL, RADIATOR	1							
24	2	172437-03402	LABEL, ENGINE COVER	1							
25	2	172437-03422	LABEL, MUFFLER	2							
26	2	172437-03432	LABEL, STEERING	1							
27	2	172437-03441	LABEL, ROPS	1							
27-1	2	172499-03270	LABEL, TOPS	1							N
(A=MXXXXX)											
28	2	172437-03451	LABEL, SEAT BELT	1							
29	2	172437-03461	LABEL, BOOM	2							
30	2	172437-03471	LABEL, LEVER LOCK	1							
31	2	172437-03242	LABEL, CRAWLER	1							1
32	2	172A47-03140	LABEL, FRONT	1							
33	2	172472-03141	LABEL, SUPPORT	1							
34	2	172183-03280	LABEL, LOCK	2							
35	2	172A85-03320	LABEL SPEC KR	1							
35-1	2	172A85-03321	LABEL SPEC KR	1							N
(A=M/#53101)											
36	2	172A36-03411	LABEL, ENGINE ROOM	1							
37	2	172531-03030	LABEL, YANMAR	2							
37-1	2	172A77-03030	LABEL, YANMAR	1							S
(A=M56001)											
38	2	172A45-03151	LABEL,SPECIFICATION	1							
38-1	2	172A45-03152	LABEL,SPECIFICATION	1							S 2
(A=M/#XXXXX)											
38-2	2	172A85-03150	LABEL, MODEL L	1							S
(A=M56001)											
39	2	172467-03150	LABEL, GREASING	1							



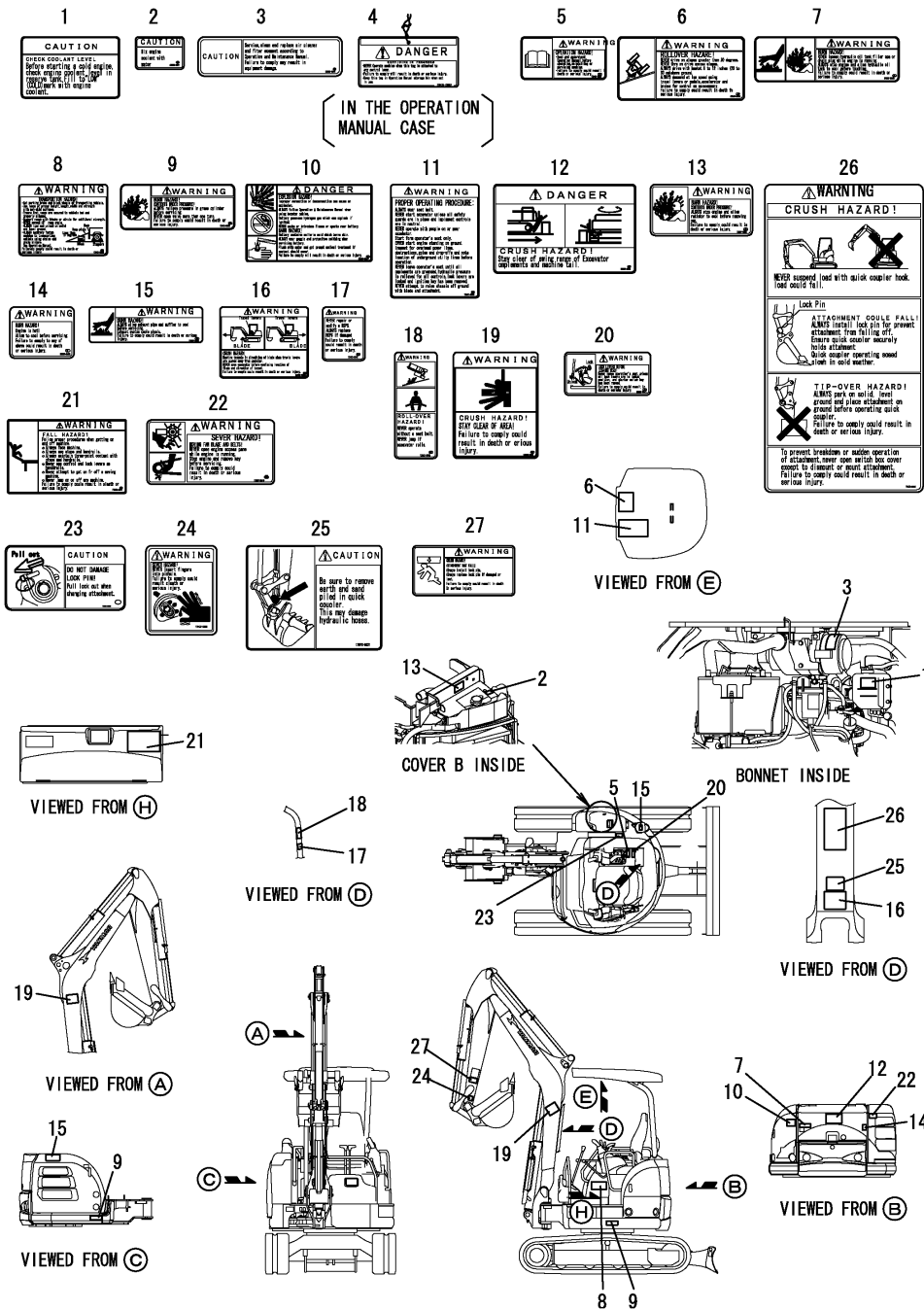
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
40	2	172A07-03160	LABEL	1							
41	2	172A46-03161	LABEL, REAR	1							
42	2	172958-03160	LABEL	1							
43	2	172A45-03171	LABEL, SPECIFICATION	1							
43-1	2	172A45-03172	LABEL, SPECIFICATION	1						S	2
(A=M#XXXXXX)											
43-2	2	172A85-03170	LABEL, MODEL R	1						S	
(A=M56001)											
44	2	172472-03230	LABEL, OPERATION	1							
45	2	172458-03240	LABEL, LOCK	1							
46	2	172472-03241	LABEL, PINUS	1							
47	2	172472-03250	LABEL, OPERATION	1							
48	2	172472-03261	LABEL, FINGER	1							
49	2	172472-03271	LABEL, SANDUS	1							
50	2	172472-03281	LABEL, WARNING HITCH	1							
51	2	172472-03290	LABEL, SWITCH	1							Z
(A=FROM 1ST)											
52	2	172472-03300	LABEL, COVER	1							Z
(A=FROM 1ST)											
53	2	172A46-03330	LABEL, SPECIFICATION	1							
54	2	172472-03330	LABEL, LOCK PIN	1							
55	2	172A46-03220	LABEL, PTO	1							
56	2	172A47-03270	LABEL, PTO SELECT	1							
57	2	172A46-03301	LABEL, PTO	1							W
(A=M#XXXXXX)											
62	1	172A77-03110	EMBLEM ASSY	1							W
(A=M56001)											

(1) RUBBER CRAWLER SPEC.
(2) INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF. 38-1, 43-1.

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

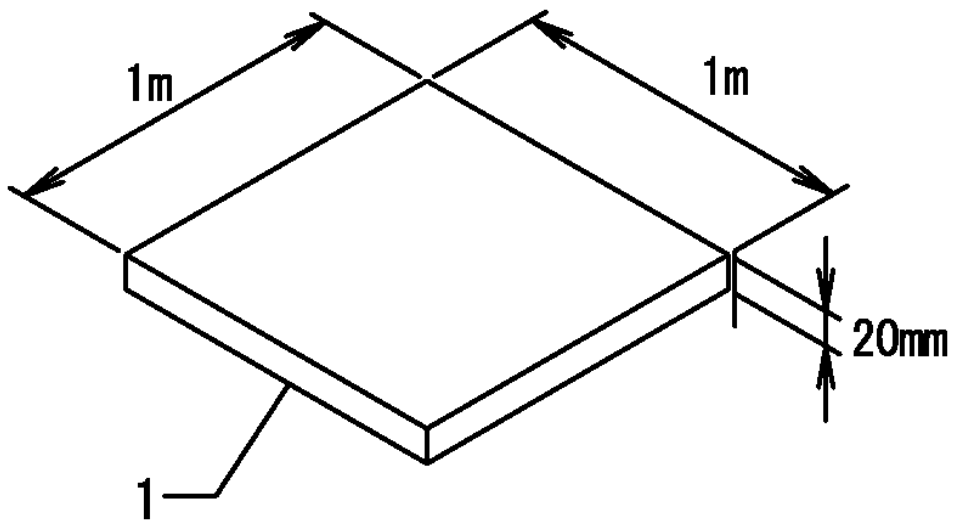
(A)=VIO30-5B P(KR)
(B)=
(C)=

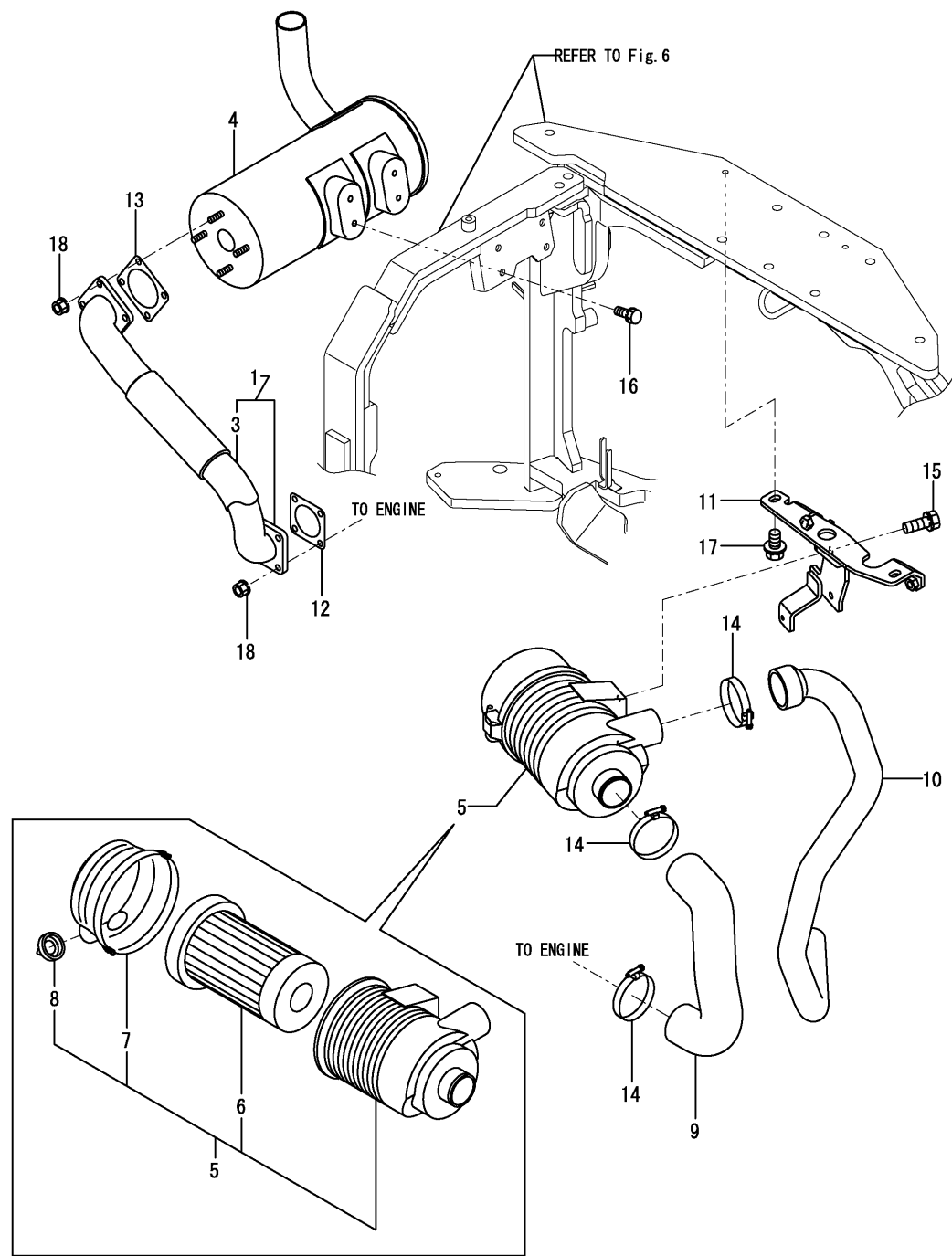
(D)=
(E)=
(F)=



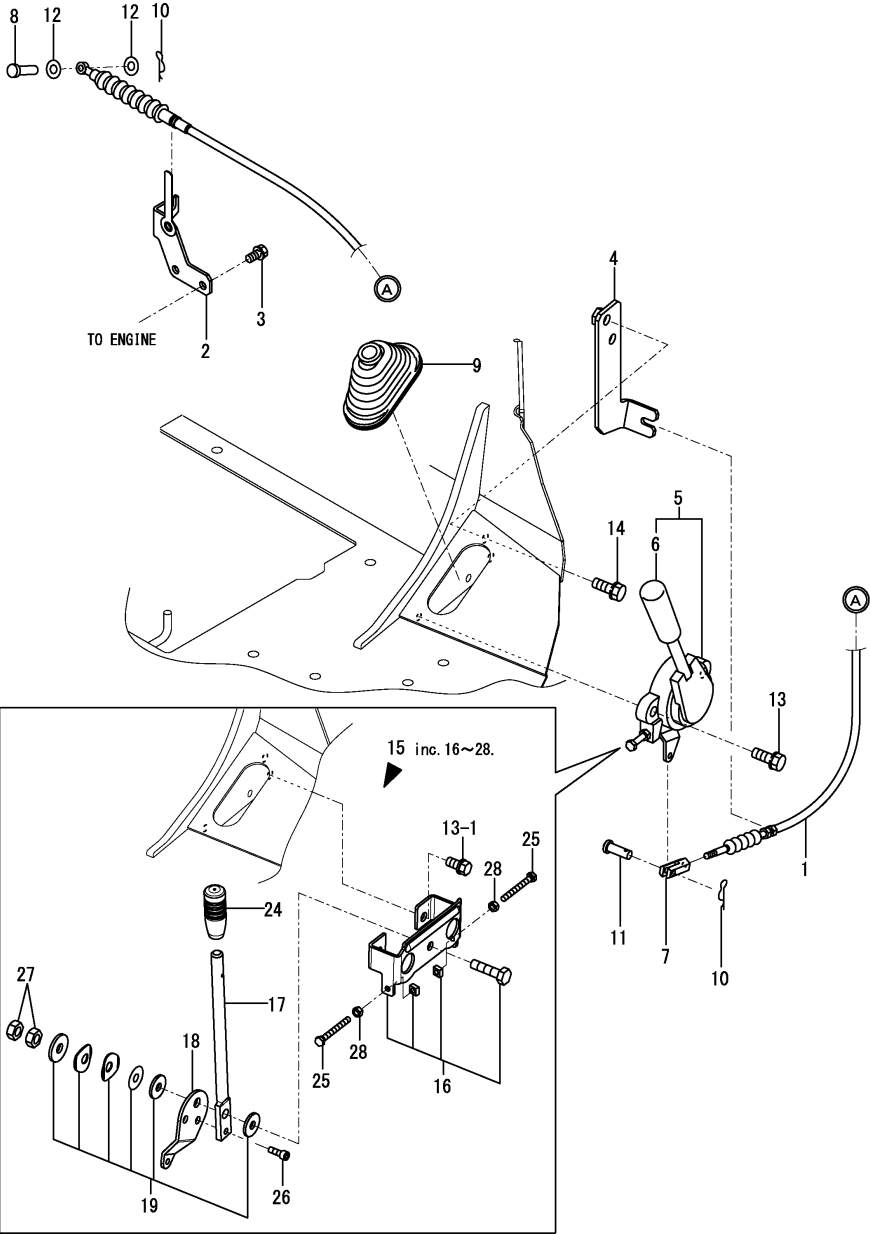
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A38-03201	LABEL, SUB TANK	1							
2	1	172A38-03211	LABEL, ANTI-FREEZING	1							
3	1	172125-03951	LABEL, AIR CLEANER	1							
4	1	172437-03252	TAG ASSY, CAUTION	1							
5	1	172437-03302	LABEL, MANUAL	1							
6	1	172437-03312	LABEL, SLOPE	1							
7	1	172437-03322	LABEL, RESEVOIR	1							
8	1	172437-03343	LABEL, TRANSPORT	1							
9	1	172437-03352	LABEL, CYLINDER	2							
10	1	172437-03361	LABEL, BATTERY	1							
11	1	172437-03372	LABEL, NEUTRAL	1							
12	1	172437-03381	LABEL, SWING AREA	1							
13	1	172437-03391	LABEL, RADIATOR	1							
14	1	172437-03402	LABEL, ENGINE COVER	1							
15	1	172437-03422	LABEL, MUFFLER	2							
16	1	172437-03432	LABEL, STEERING	1							
17	1	172437-03441	LABEL, ROPS	1							
17-1	1	172499-03270	LABEL, TOPS	1							N
(A=MXXXXX)											
18	1	172437-03451	LABEL, SEAT BELT	1							
19	1	172437-03461	LABEL, BOOM	2							
20	1	172437-03471	LABEL, LEVER LOCK	1							
21	1	172472-03141	LABEL, SUPPORT	1							
22	1	172A36-03411	LABEL, ENGINE ROOM	1							
23	1	172472-03241	LABEL, PINUS	1							
24	1	172472-03261	LABEL, FINGER	1							
25	1	172472-03271	LABEL, SANDUS	1							
26	1	172472-03281	LABEL, WARNING HITCH	1							
27	1	172472-03330	LABEL, LOCK PIN	1							

Fig.3. REPAIR PARTS

[illegible]



				(A)=VIO30-5B P(KR)	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A45-11301	TUBE ASSY, EXHAUST	1							
3	2	172A46-11390	TAPE, INSURATOR	3							
4	1	172A46-11302	MUFFLER ASSY	1							
5	1	172A46-11500	CLEANER ASSY, AIR	1							
6	2	129004-12520	ELEMENT	1							
7	2	119866-12530	COVER ASSY	1							
8	2	119808-12540	VALVE, UNLOADER	1							
9	1	172A46-11510	HOSE, AIR CLEANER	1							
10	1	172A46-11520	HOSE, AIR CLEANER	1							
11	1	172A46-11550	BRACKET ASSY	1							
12	1	124701-11911	GASKET, SILENCER	1							
13	1	129400-13201	GASKET, SILENCER	1							
14	1	23000-070000	CLAMP, 70	3							
15	1	26013-080202	BOLT, M8X 20	2							
16	1	26013-080252	BOLT, M8X 25	4							
17	1	26014-100252	BOLT, M10X 25	2							
18	1	26051-080002	NUT, M8	8							
</											



(A)=VIO30-5B P(KR)
(B)=
(C)=

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

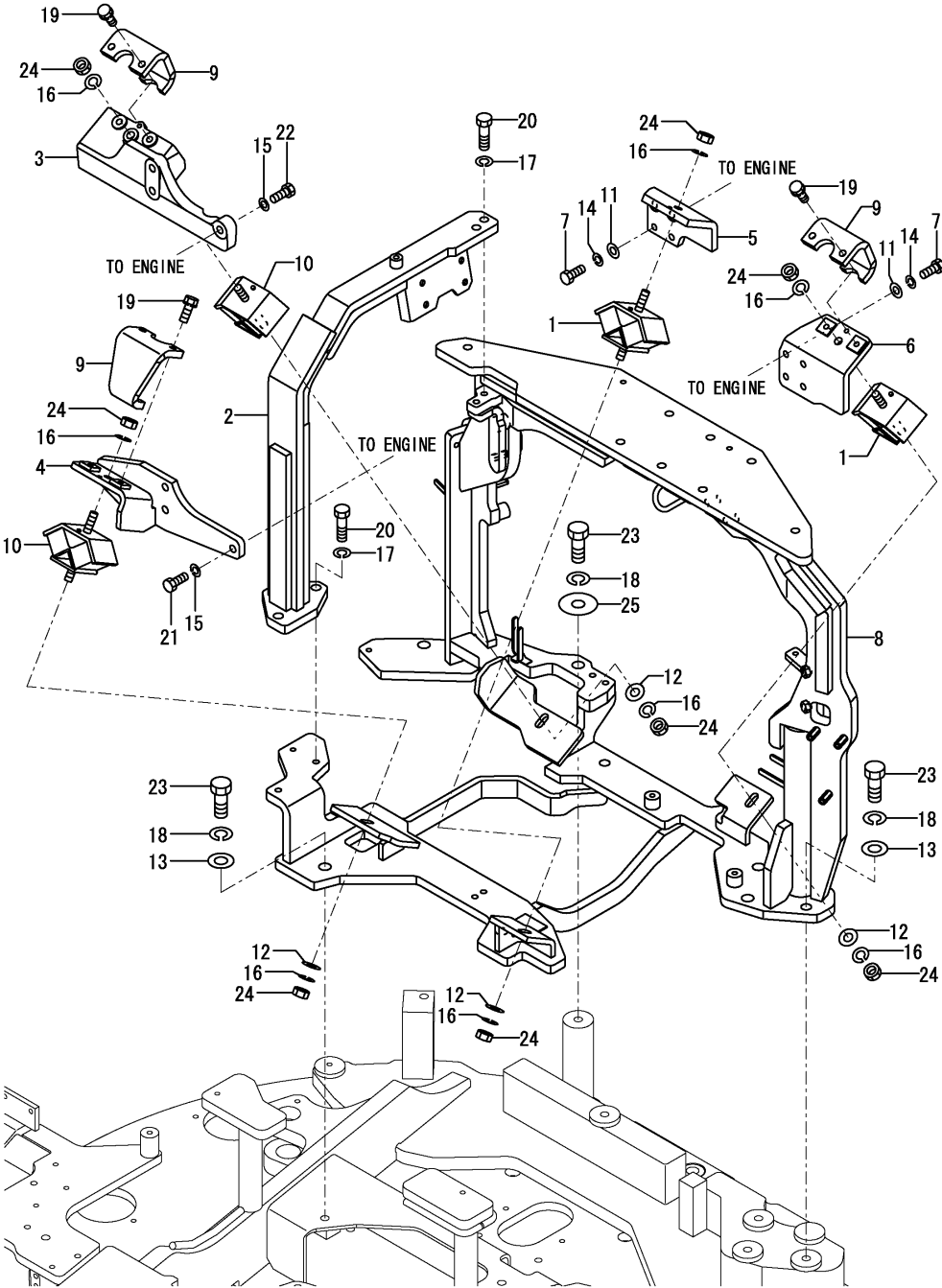
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-12101	CABLE, ACCELERATOR	1							
2	1	172A45-12150	BRACKET	1							
3	1	26013-080162	BOLT, SPRING M8X 16	2							
4	1	172A47-12110	BRACKET, CABLE	1							
5	1	172A47-12141	LEVER, ACCELERATOR	1						Z	1
(A=*2016.10.)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

Remarks

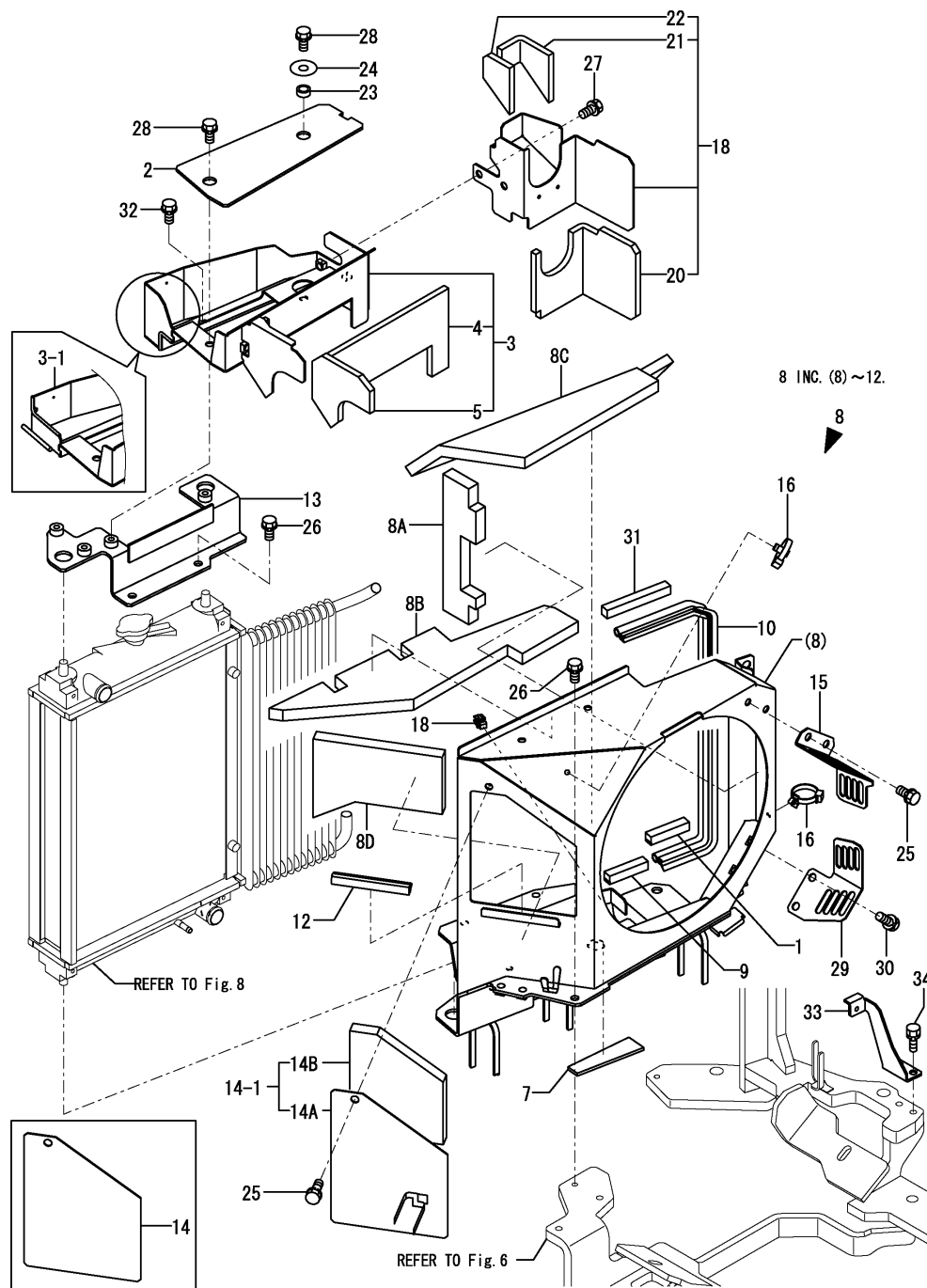
(1)Interchangeable by simultaneous replacement with No.13-1 & 15.

(A)=VIO30-5B P(KR)
(B)=
(C)=

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



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

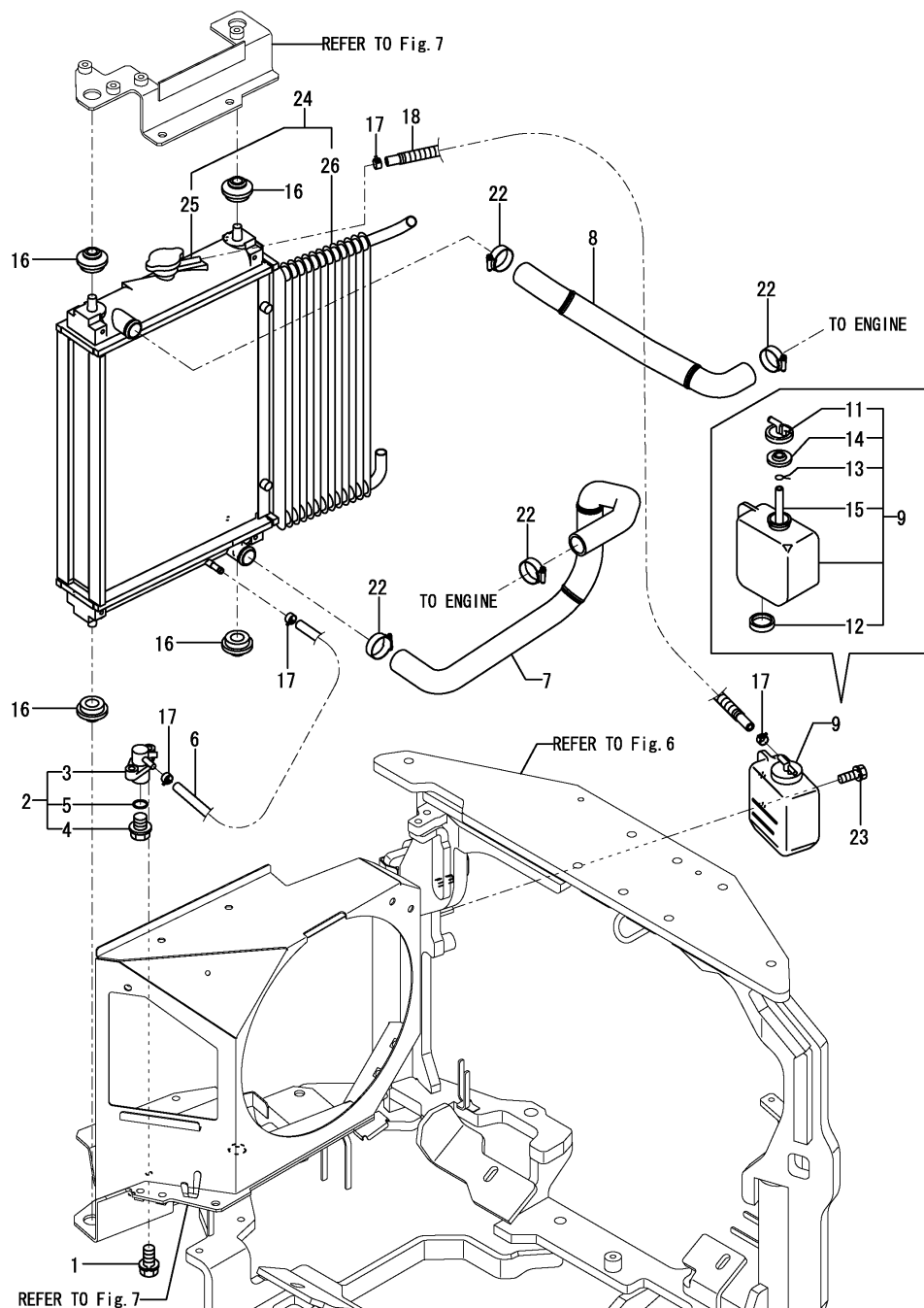


				(A)=VIO30-5B P(KR)							(D)=
				(B)=							(E)=
				(C)=							(F)=
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172A46-13060	SEAL, SHURAUD	1							
2	1	172A46-13090	MAT	1							
3	1	172A46-13120	BRACKET ASSY, DUCT	1							
3-1	1	172A46-13121	BRACKET ASSY, DUCT	1							S
	(A=MZZZZZ)										
4	2	172A46-13130	WOOL, GLASS	1							
5	2	172A46-13140	WOOL, GLASS	1							
7	1	172A46-13530	SEAL, SHURAUD	1							
8	1	172A45-13541	SHROUD ASSY	1							
8-1	1	172A46-13542	SHROUD ASSY	1							N
	(A=FROM 1ST)										
8A	2	172A77-13610	SPONGE	1							W
	(A=FROM 1ST)										
8B	2	172A77-13620	SPONGE	1							W
	(A=FROM 1ST)										
8C	2	172A77-13630	SPONGE	1							W
	(A=FROM 1ST)										
8D	2	172A77-13640	SPONGE	1							W
	(A=FROM 1ST)										
9	2	172A46-13060	SEAL, SHURAUD	1							
10	2	172A46-13070	RUBBER, SEAL	1							
12	2	172458-61500	RUBBER, SEAL	1							
13	1	172A46-13660	BRACKET ASSY	1							
14	1	172A46-13030	COVER ASSY, SHROUD	1							
14-1	1	172A77-13650	COVER ASSY, SHROUD	1							N
	(A=FROM 1ST)										
14A	2	172A46-13030	COVER ASSY, SHROUD	1							W
	(A=FROM 1ST)										
14B	2	172A77-13660	SPONGE	1							W
	(A=FROM 1ST)										
15	1	172A46-13900	GUARD, FAN	1							
16	1	194680-51670	BAND, CLIP	2							
17	1	1A7400-61250	HOLDER, ROD 8	1							
18	1	172A46-61340	COVER ASSY, SILENCER	1							
20	2	172A46-61250	WOOL, GLASS	1							
21	2	172A46-61260	WOOL, GLASS	1							
22	2	172A46-61270	WOOL, GLASS	1							
23	1	172155-83170	SPACER	1							
24	1	22157-100000	WASHER, 10	1							
25	1	26013-100162	BOLT, M10X 16	3							
26	1	26013-100202	BOLT, M10X 20	3							
27	1	26013-100202	BOLT, M10X 20	3							
28	1	26013-100252	BOLT, M10X 25	2							
29	1	172A46-13910	GUARD, FAN	1							
30	1	26013-100162	BOLT, M10X 16	2							
31	1	172446-49280	SEAL	1							
32	1	26013-100202	BOLT, M10X 20	2							
33	1	172A77-14290	PLATE, HOSE GUIDE	1							W
	(A=M/#XXXXX)										
34	1	26013-100252	BOLT, M10X 25	2							W
	(A=M/#XXXXX)										

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

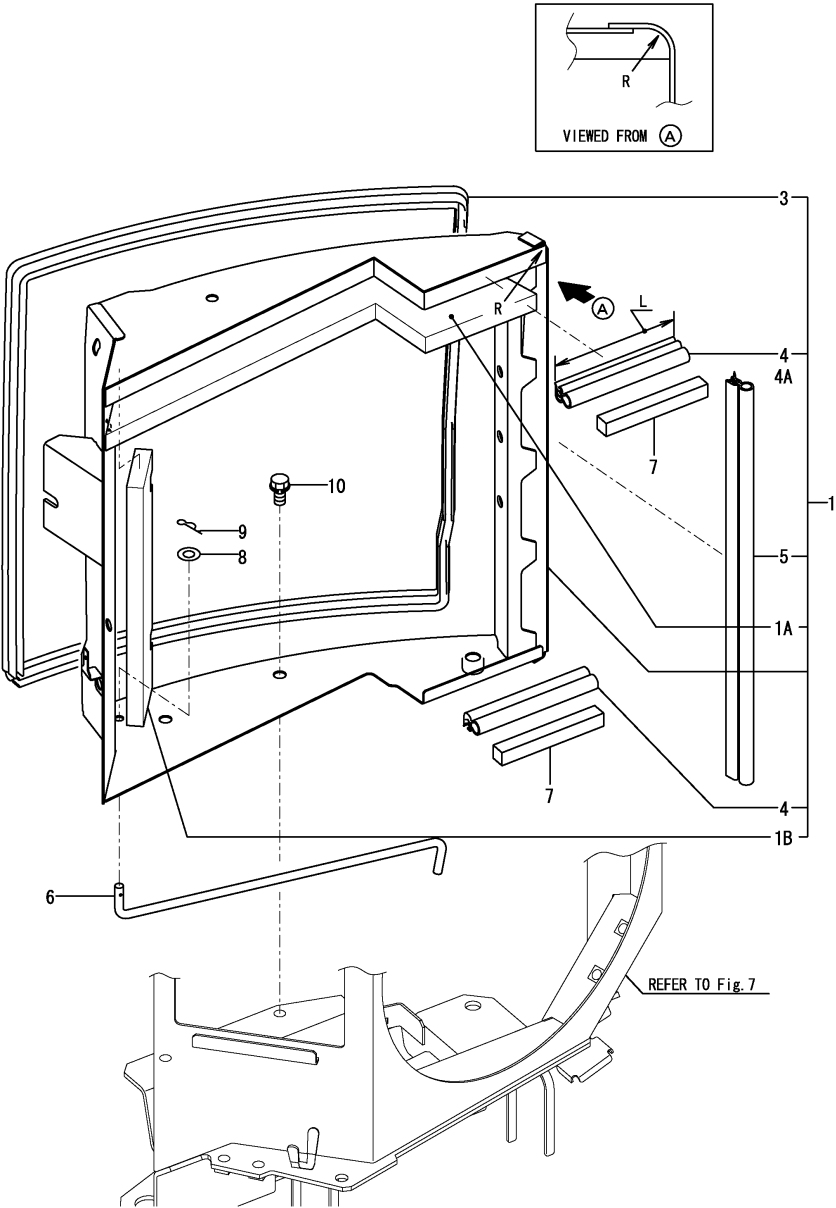
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Fig.8. RADIATOR & SUB-TANK



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26013-080202	BOLT, M8X 20	2							
2	1	172444-13210	COCK ASSY, 2-WAY	1							
3	2	172444-13220	BODY	1							
4	2	121250-49121	PLUG, DRAIN	1							
5	2	24311-000160	O-RING, 1AP16.0	1							
6	1	172124-13411	HOSE	1							
7	1	172A45-13500	PIPE, WATER	1							
7-1	1	172A45-13501	PIPE, WATER	1							N
(A=M/#53444)											
8	1	172A45-13510	PIPE, WATER	1							
8-1	1	172A45-13511	HOSE,CW-T B	1							N
(A=M/#53444)											
9	1	121468-44510	TANK ASSY	1							
11	2	121450-44531	CAP	1							
12	2	121468-44540	PLUG	1							
13	2	124450-44560	RETAINER	1							
14	2	121470-44581	GASKET	1							
15	2	23065-070130	PIPE, 7X 130	1							
16	1	184015-44680	ABSORBER, SHOCK	4							
17	1	124766-59050	CLIP, HOSE 12	4							
18	1	184014-59450	PIPE ASSY, FUEL	1							
22	1	23001-041000	CLAMP, HOSE 41	4							
23	1	26013-060202	BOLT, M6X 20	2							
24	1	172A46-13150	RADIATOR ASSY	1							
25	2	172A46-13160	RADIATOR	1							
26	2	172A46-13200	COOLER, OIL	1							

Fig.9. DUCT

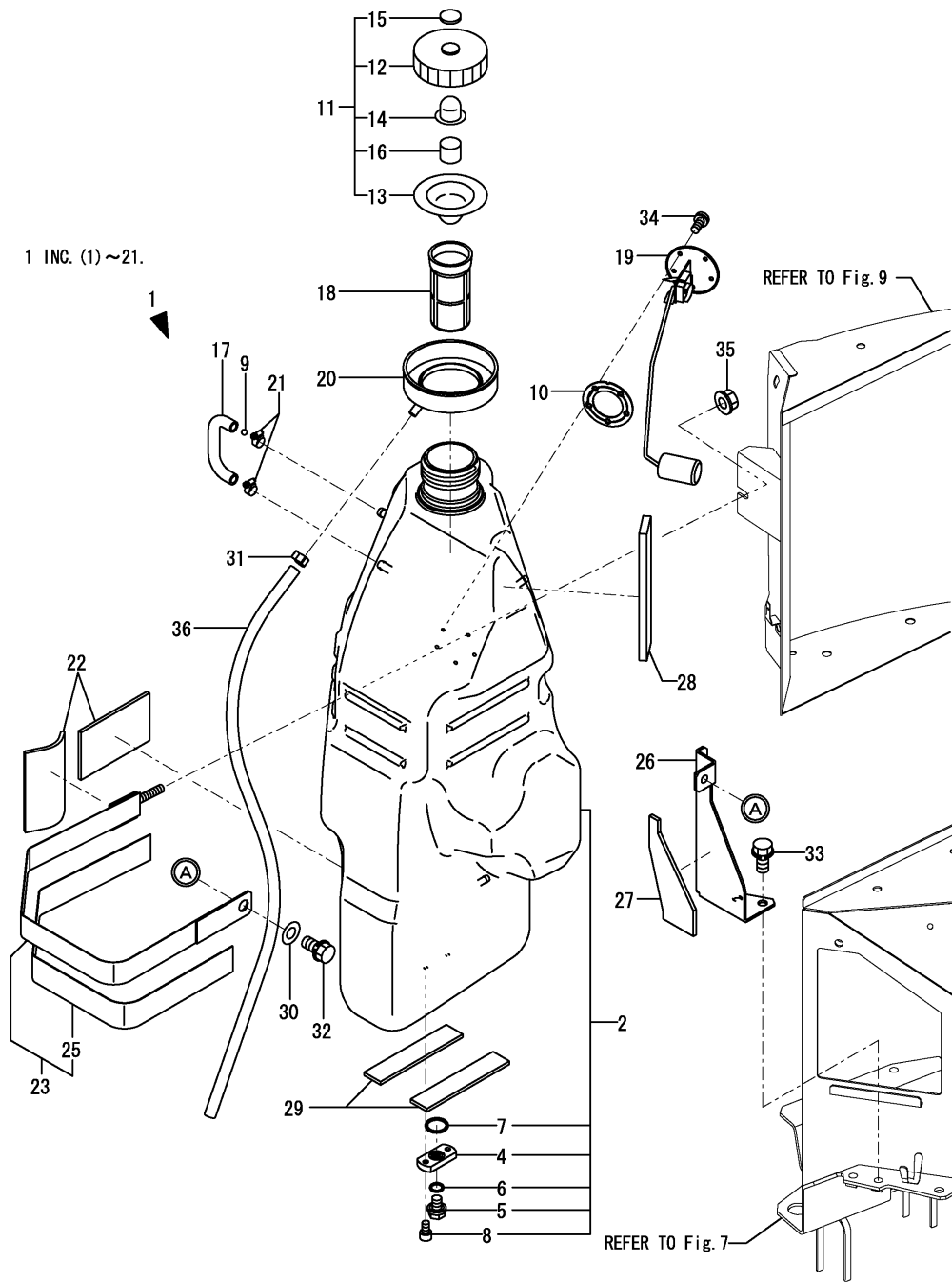


Remarks
(1)R=Ref.No.1-1 2mm, No.1-2 30mm.
(2)L=125mm

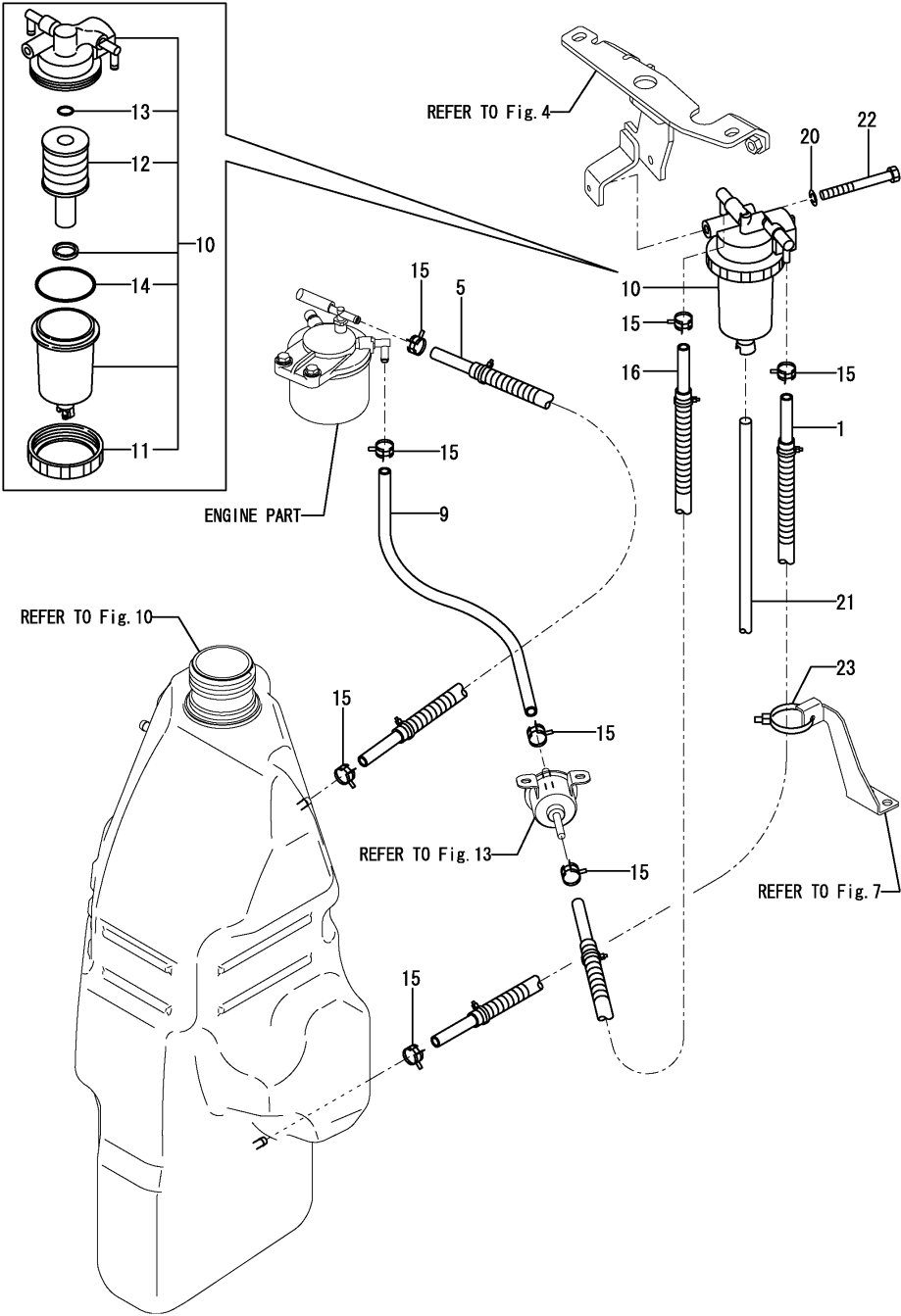
													0CS10-M52900 Fig.9							
													(A)=VIO30-5B P(KR)		(D)=					
													(B)=		(E)=					
													(C)=		(F)=					
													Q'ty						I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)											
1	1	172A46-13000	DUCT ASSY	1																
1-1	1	172A46-13701	DUCT ASSY, RADIATOR	1											N					
(A=FROM 1ST)																				
1-2	1	172A46-13002	DUCT ASSY	1											S	1				
(A=MZZZZZ)																				
1A	2	172A77-13710	SPONGE	1											W					
(A=FROM 1ST)																				
1B	2	172A77-13720	SPONGE	1											W					
(A=FROM 1ST)																				
3	2	172A46-13780	SEAL	1																
4	2	172A46-13800	RUBBER, SEAL	2																
4-1	2	172A46-13800	RUBBER, SEAL	1											K					
(A=MZZZZZ)																				
4A	2	172446-13530	SEAL, RADIATOR	1											W	2				
(A=MZZZZZ)																				
5	2	172A46-13810	RUBBER, SEAL	1																
5-1	2	172455-13620	RUBBER, SEAL	1											S					
(A=MZZZZZ)																				
6	1	172A47-13780	HOOK	1																
7	1	172446-49280	SEAL	2																
8	1	22137-080000	WASHER, 8	1																
9	1	22372-080000	PIN, SNAP 8	1																
10	1	26013-100202	BOLT, M10X 20	2																

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

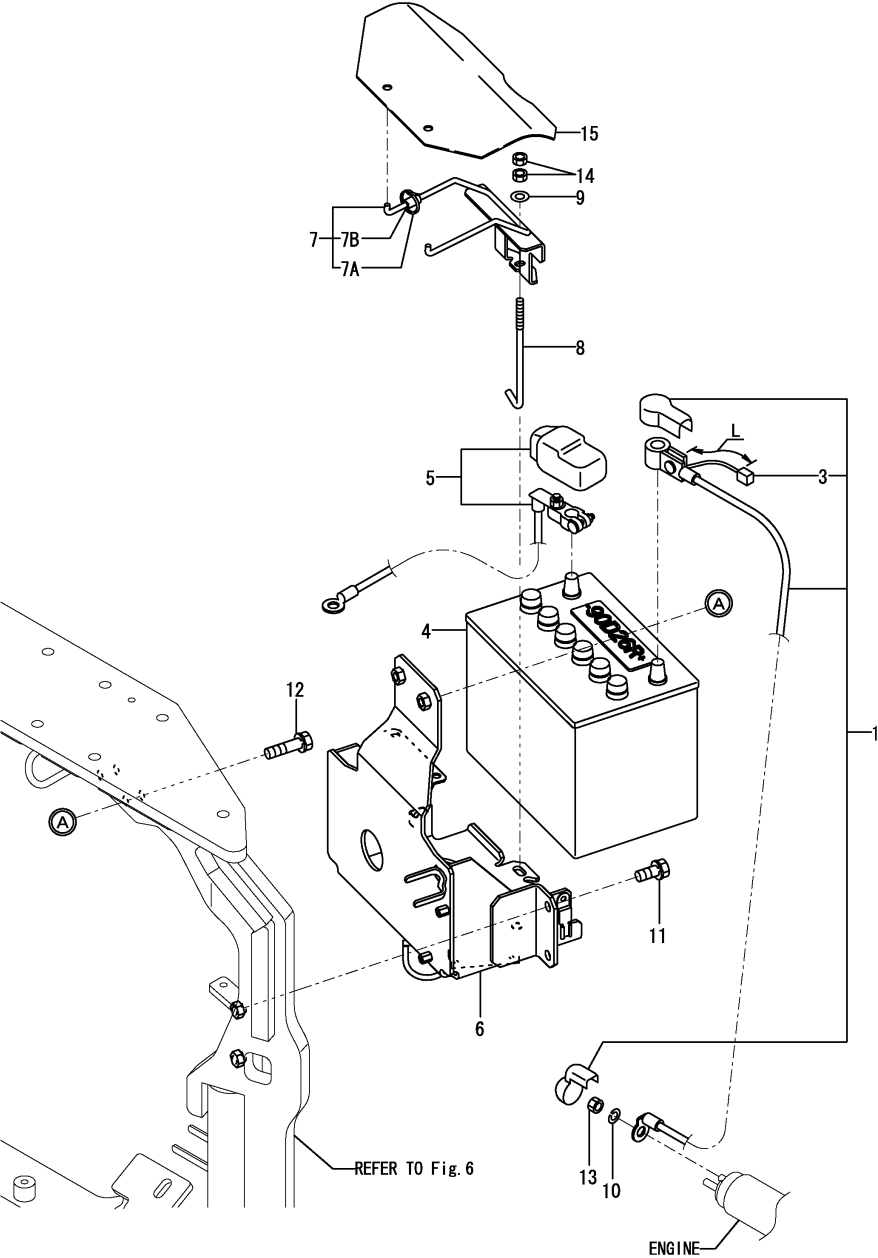


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A46-14100	TANK ASSY, FUEL	1							
2	2	172A46-14110	TANK ASSY, FUEL	1							
4	3	172447-14310	BLOCK, DRAIN	1							
5	3	23491-080002	PLUG, 8	1							
6	3	24311-000090	O-RING, 1AP9.0	1							
7	3	24311-000160	O-RING, 1AP16.0	1							
7-1	3	172A46-14550	PACKING	1							N
(A)=*2016.01.)											
8	3	26450-060102	BOLT, M6X 10	2							
9	2	172447-14160	FLOAT	1							
10	2	172162-14200	GASKET	1							
11	2	172444-14200	CAP, FUEL	1							
12	3	172444-14450	CAP	1							
13	3	172444-14460	PACKING, RUBBER	1							
14	3	172444-14470	PACKING, RUBBER	1							
15	3	172444-14480	WASHER	1							
16	3	172444-14490	SPONGE	1							
17	2	172458-14203	HOSE, FUEL GAUGE	1							
18	2	172183-14250	FILTER, FUEL	1							
19	1	172A77-14220	GAUGE, FUEL	1							
20	2	172458-14370	SUMP, FUEL	1							
21	2	23000-013000	CLAMP, 13	2							
22	1	172444-14130	PLATE, RUBBER	2							
23	1	172A46-14150	CLAMP ASSY, FUEL	1							
25	2	172A46-14180	RUBBER, CLAMP	1							
26	1	172A46-14190	STAY, CLAMP	1							
27	1	172A46-14240	PLATE, RUBBER	1							
28	1	172A46-14250	PLATE, RUBBER	1							
29	1	172458-14380	PLATE, RUBBER	2							
30	1	22137-100000	WASHER, 10	1							
31	1	23080-013000	CLAMP, 13	1							
32	1	26013-100202	BOLT, SPRING M10X 20	1							
33	1	26013-100202	BOLT, SPRING M10X 20	2							
34	1	26022-050122	SCREW, M5X12	5							
35	1	26367-100002	NUT, M10	2							
36	1	172A47-14520	HOSE	1							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-14230	HOSE, FUEL	1							
1-1	1	172A46-14231	HOSE	1							S
(A=M/#XXXXX)											
5	1	172A46-14600	HOSE ASSY, FUEL	1							
5-1	1	172A46-14601	HOSE ASSY, FUEL	1							N
(A=M/#XXXXX)											
9	1	172137-14610	PIPE, FUEL	1							
10	1	184016-55700	SEPARATOR ASSY, WATER	1							
10-1	1	184016-55701	SEPARATOR ASSY	1							N
(A=M54016)											
11	2	129100-55690	RING, RETAINING	1							
12	2	119802-55710	ELEMENT	1							
13	2	24311-000160	O-RING, 1AP16.0	1							
14	2	24321-000650	O-RING, 1AG65.0	1							
15	1	124766-59050	CLIP, HOSE 12	8							
16	1	172A46-14650	HOSE ASSY, FUEL	1							
20	1	22217-080000	WASHER, SPRING 8	1							
21	1	23061-050300	PIPE, 5X 300	1							
22	1	26116-080702	BOLT, M8X 70 PLATED	1							
23	1	194680-51630	CLIP	1							W
(A=M/#XXXXX)											

Fig.12. BATTERY



Remarks
(1)L=REF.NO.3 140MM, NO.3-1 330MM.

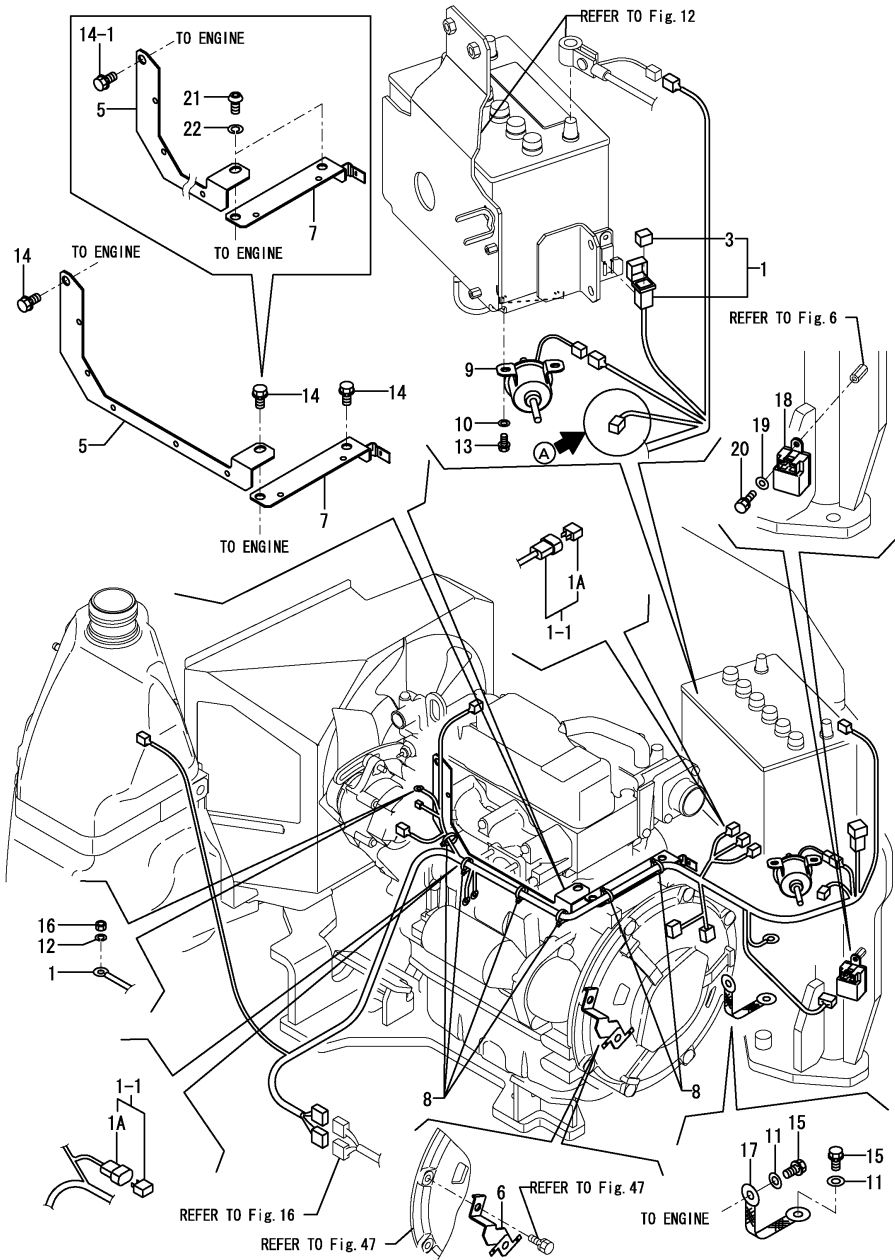
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

Q'ty

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172A46-16100	CORD ASSY, BATTERY	1							
1-1	1	172A46-16101	CORD ASSY, BATTERY	1						S	1
(A=M/#53409)											
3	2	172458-16140	HARNESS, WIRE	1							
3-1	2	172A85-16140	HARNESS, WIRE	1						S	1
(A=M/#53409)											
4	1	172653-16100	BATTERY	1							
5	1	172A46-16110	CORD ASSY, BATTERY	1							
5-1	1	172A46-16111	CORD, BATTERY	1							N
(A=M/#53409)											
6	1	172A46-16260	MOUNT ASSY, BATTERY	1							
6-1	1	172A46-16261	MOUNT ASSY, BATTERY	1							N
(A=M/#53409)											
7	1	172A46-16310	CLAMP ASSY, BATTERY	1							
7-1	1	172A46-16250	CLAMP ASSY, BATTERY	1							N
(A=M/#XXXXX)											
7A	2	172126-11510	BAND	1							W
(A=M/#XXXXX)											
7B	2	172A46-16360	HOSE, CLAMP	1							W
(A=M/#XXXXX)											
8	1	172A46-16340	ROD, BATTERY CLAMP	1							
9	1	22137-080000	WASHER, 8	1							
10	1	22217-080000	WASHER, SPRING 8	1							
11	1	26013-100202	BOLT, M10X 20	2							
12	1	26013-100352	BOLT, M10X 35	2							
13	1	26716-080002	NUT, M8	1							
14	1	26716-080002	NUT, M8	2							
15	1	172A47-16150	COVER, BATTERY	1							

Fig.13. ELECTRIC PART(AROUND ENGINE)



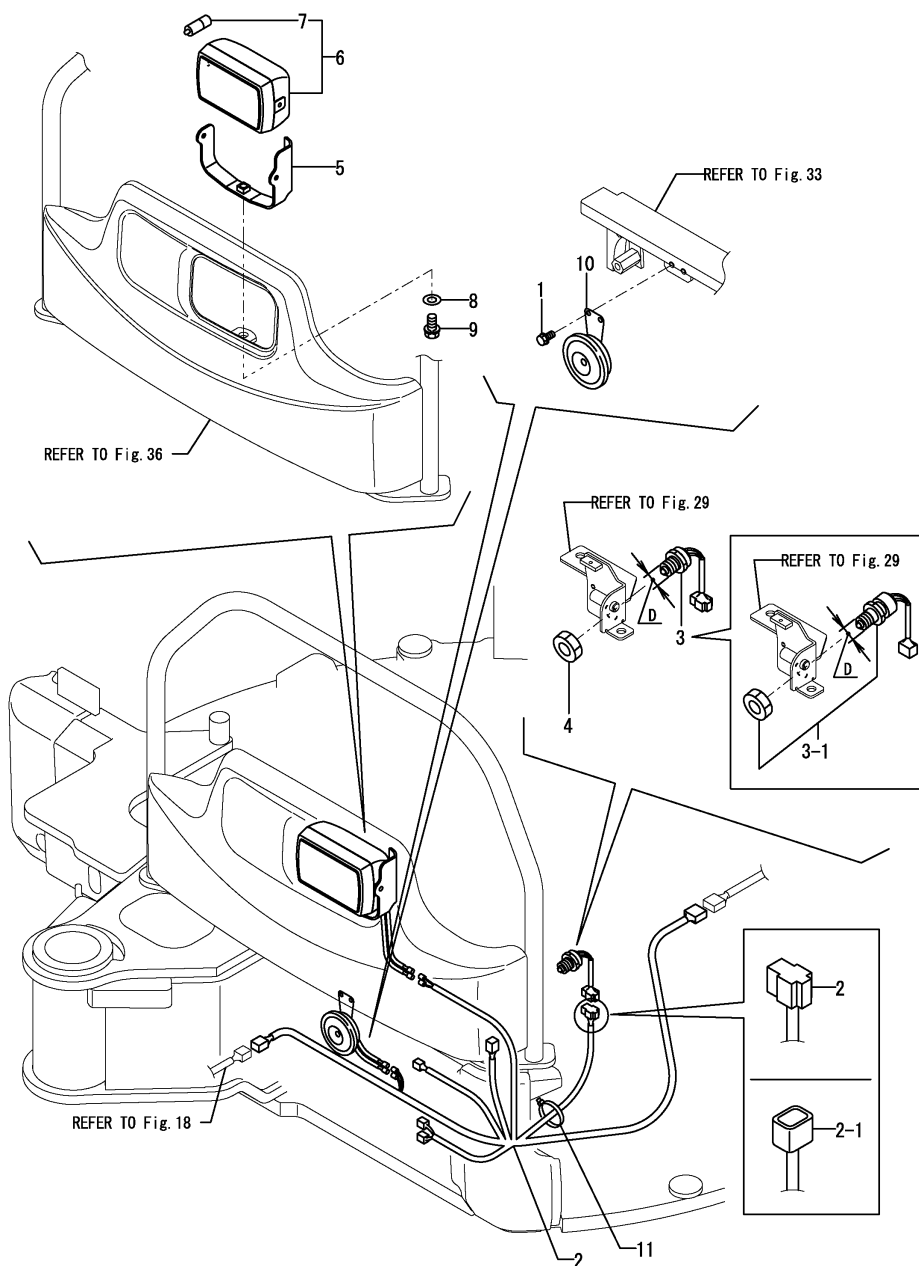
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A85-16500	HARNESS ASSY,A	1							
1-1	1	172A85-16501	HARNESS ASSY,A	1						S	1
(A=M/#53409)											
1A	2	1A7130-51130	DIODE, 1.5A	2							W
(A=MZZZZZ)											
3	2	172458-16550	FUSE, SLOWBLOW	1							
5	1	172A45-16610	SUPPORT, HARNESS	1							
6	1	172A45-16740	SUPPORT ASSY	1							
7	1	172A45-16760	SUPPORT ASSY	1							
8	1	194680-51670	BAND, CLIP	9							
9	1	129612-52100	PUMP ASSY, FUEL FEED	1							
10	1	22137-060000	WASHER, 6	2							
11	1	22137-100000	WASHER, 10	2							
12	1	22217-060000	WASHER, SPRING 6	1							
13	1	26013-060162	BOLT, M6X 16	2							
14	1	26013-100162	BOLT, M10X 16	3							
14-1	1	26013-100162	BOLT, M10X 16	1							K
(A=MZZZZZ)											
15	1	26013-100202	BOLT, M10X 20	2							
16	1	26716-060002	NUT, M6	1							
17	1	933171-15801	CORD, ENGINE EARTH	1							
18	1	124970-77920	TIMER	1							
19	1	22137-060000	WASHER, 6	1							
20	1	26013-060162	BOLT, M6X 16	1							
21	1	172455-61720	BOLT	2							W
(A=MZZZZZ)											
22	1	22217-100000	WASHER, SPRING 10	2							W
(A=MZZZZZ)											

Remarks
(1)A=REF.NO.1 NORMAL TYPE,
NO.1-1 WATERPROOF TYPE.

Fig.14. ELECTRIC PART(AROUND FRAME)



Remarks
(1)D=Ref.No.3 M18 screw,
No.3-1 M20 screw.

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

[illegible]

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

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Fig.15. ELECTRIC PART(STARTING SWITCH)

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-17100	SWITCH ASSY, STARTER	1							
1-1	1	172187-17101	SWITCH ASSY, STARTER	1						N	
(A=*2013.01)											
1A	2	172A47-17210	CYLINDER ASSY, KEY	1							W
(A=M53603)											
1A-1	2	172A47-17211	CYLINDER ASSY, KEY	1						N	
(A=*2013.01)											
2	3	172187-17070	CORD ASSY	1							
3	3	172187-17080	COVER	3							
4	3	172187-17090	COVER	2							
6	2	933110-00301	KEY ASSY	1							

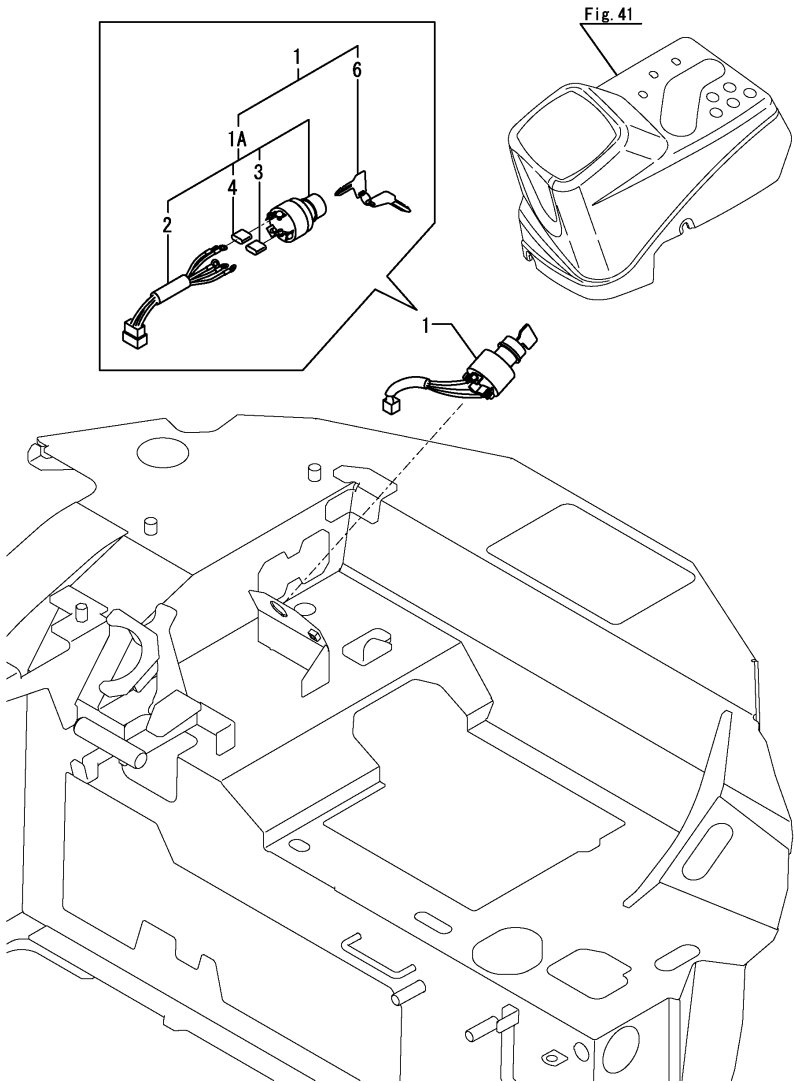


Fig.16. ELECTRIC PART(AROUND SEAT)

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

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

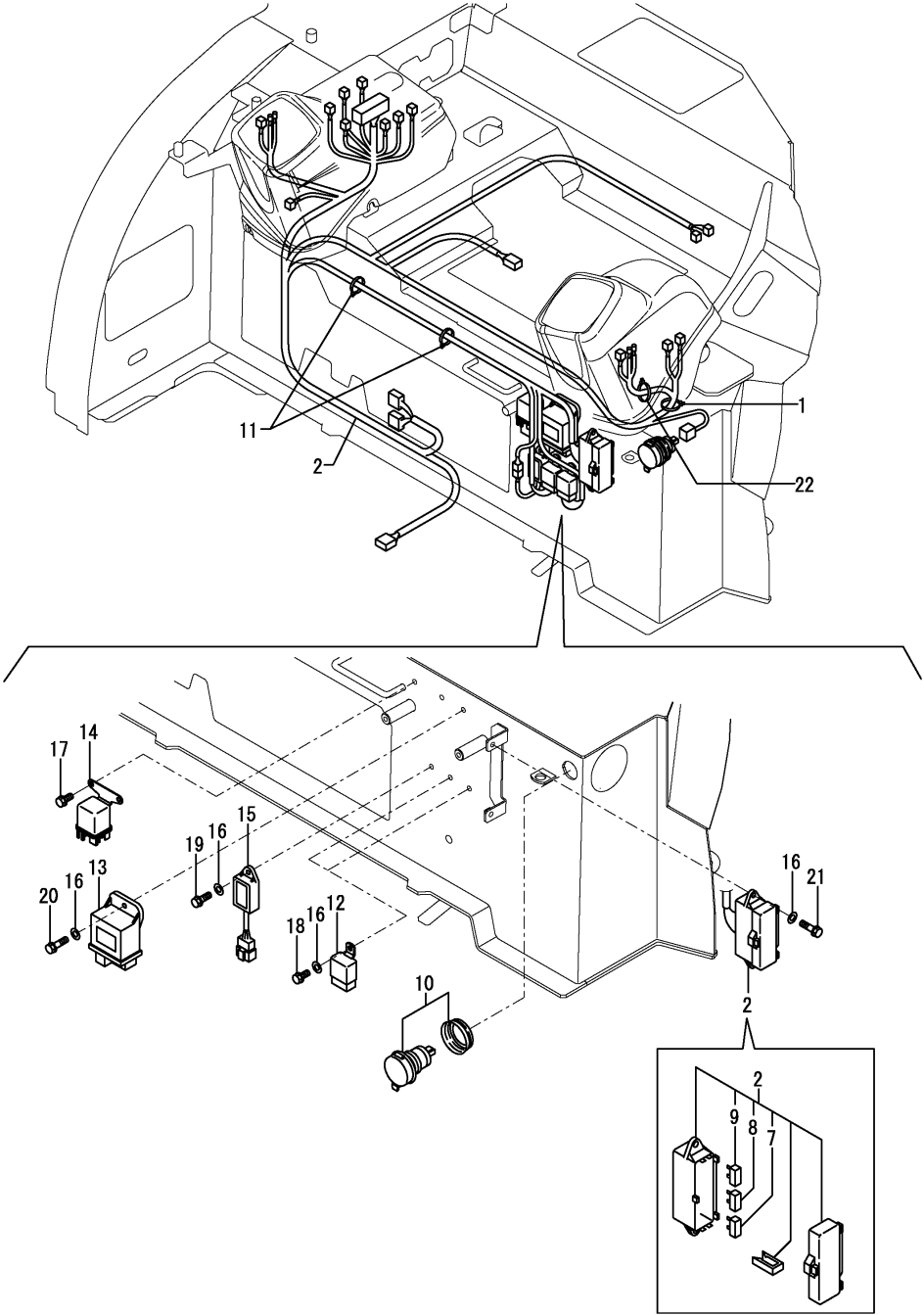
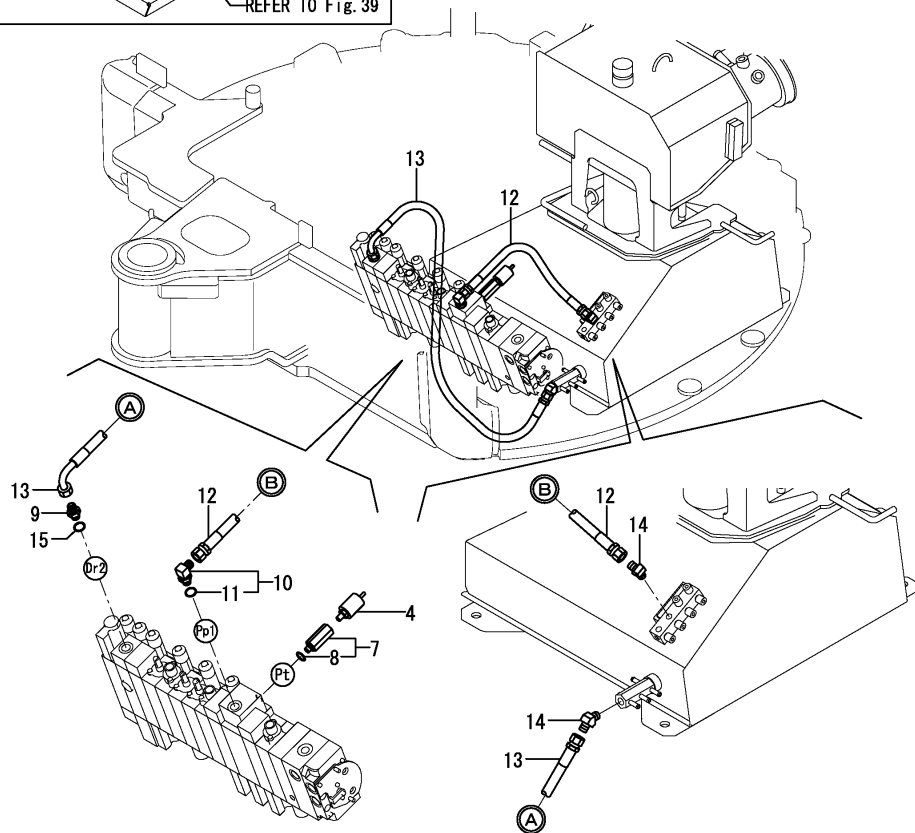
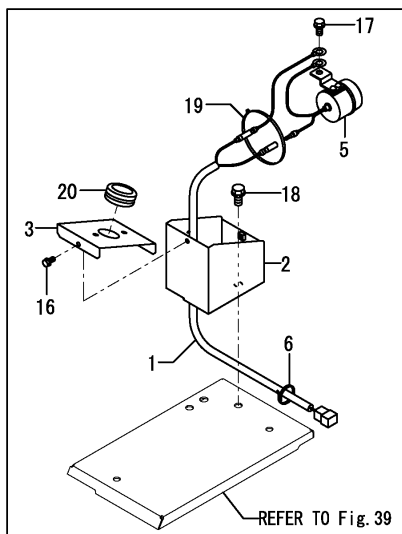


Fig.17. ELECTRIC PART(TRAVEL ALARM)



(A)=VIO30-5B P(KR)
(B)=
(C)=

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

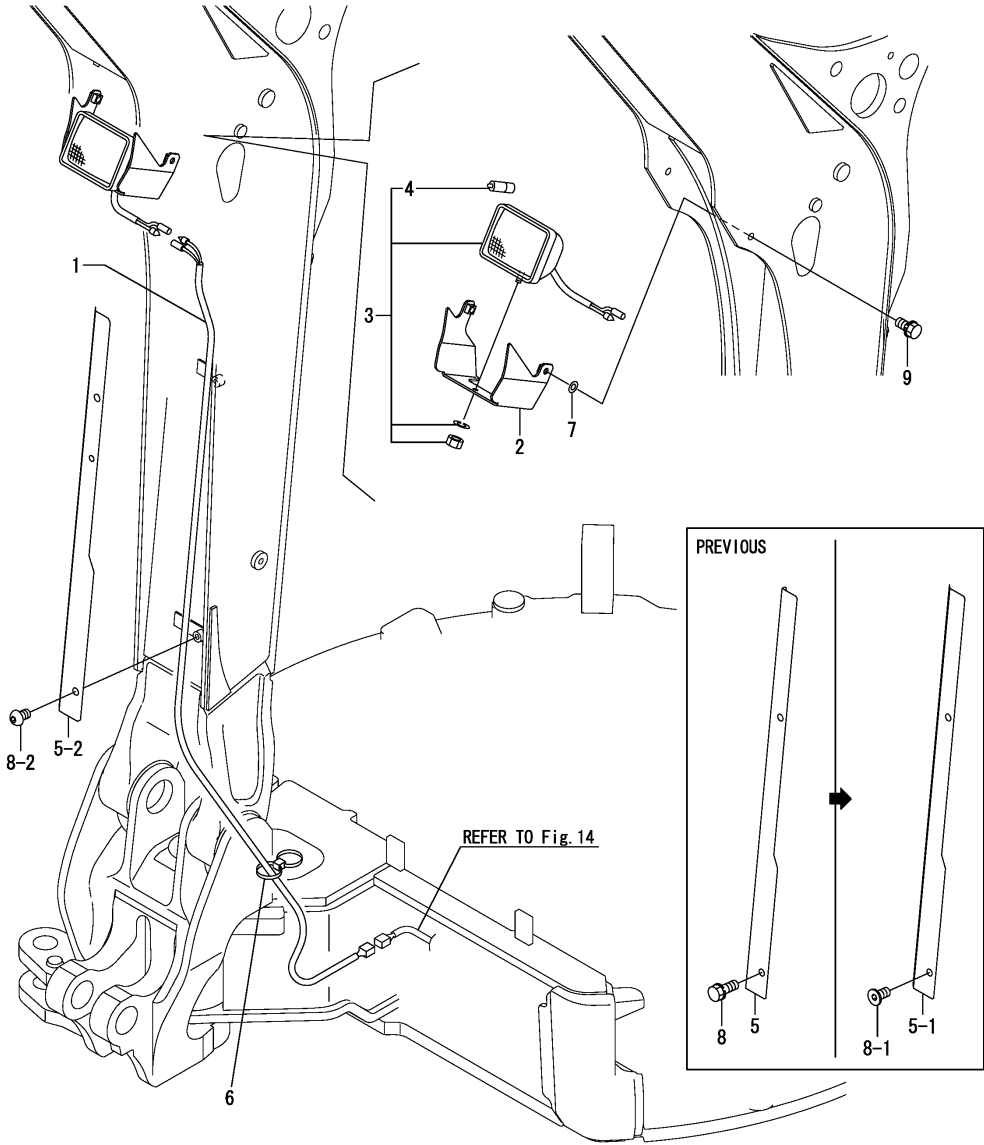
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-16651	HARNES, TRAVEL	1							
2	1	172A47-16810	COVER ASSY, BUZZER	1							
3	1	172A47-16860	COVER, FLASHER	1							
4	1	172478-17200	SWITCH, PRESSURE	1							
5	1	172511-17351	BUZZER, BACK	1							
6	1	194202-56460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

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

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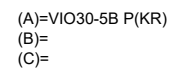
(A)=VIO30-5B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-16550	HARNESS, LAMP	1							
2	1	172A46-17400-2	COVER, LAMP	1							
2-1	1	172A46-17400-Y	COVER, LAMP	1							S
(A=M56001)											
3	1	172458-17450	LAMP, WORK	1							
4	2	172187-17540	BULB	1							
5	1	172A85-17460-1	COVER, HARNESS	1							
5-1	1	172A85-17461-1	COVER, HARNESS	1							N
(A=FROM 1ST)											
5-2	1	172A85-17462-2	COVER, HARNESS	1							N
(A=M/#53112)											
5-3	1	172A85-17462-Y	COVER, HARNESS	1							S
(A=M56001)											
6	1	172137-16560	BAND	1							
7	1	22137-100000	WASHER, 10	2							Z
(A=FROM 1ST)											
8	1	26013-100162	BOLT, M10X 16	2							
8-1	1	172A85-17470	LOW HEAD SCREW 10X10	2							N
(A=FROM 1ST)											
8-2	1	172958-83320	BOLT	2							S
(A=M/#53112)											
9	1	26013-100252	BOLT, M10X 25	2							

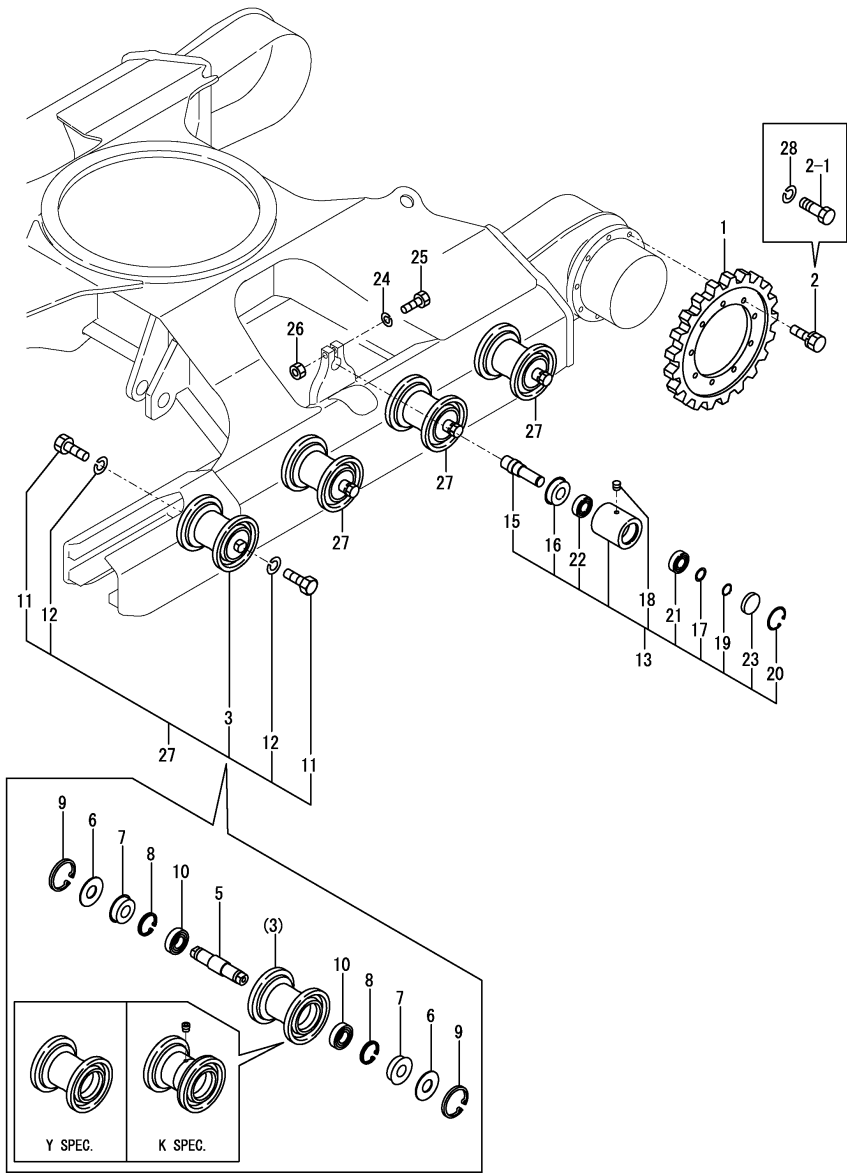
Fig.19. ELECTRIC PART(QUICK COUPLER : SWITCH BOX)



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

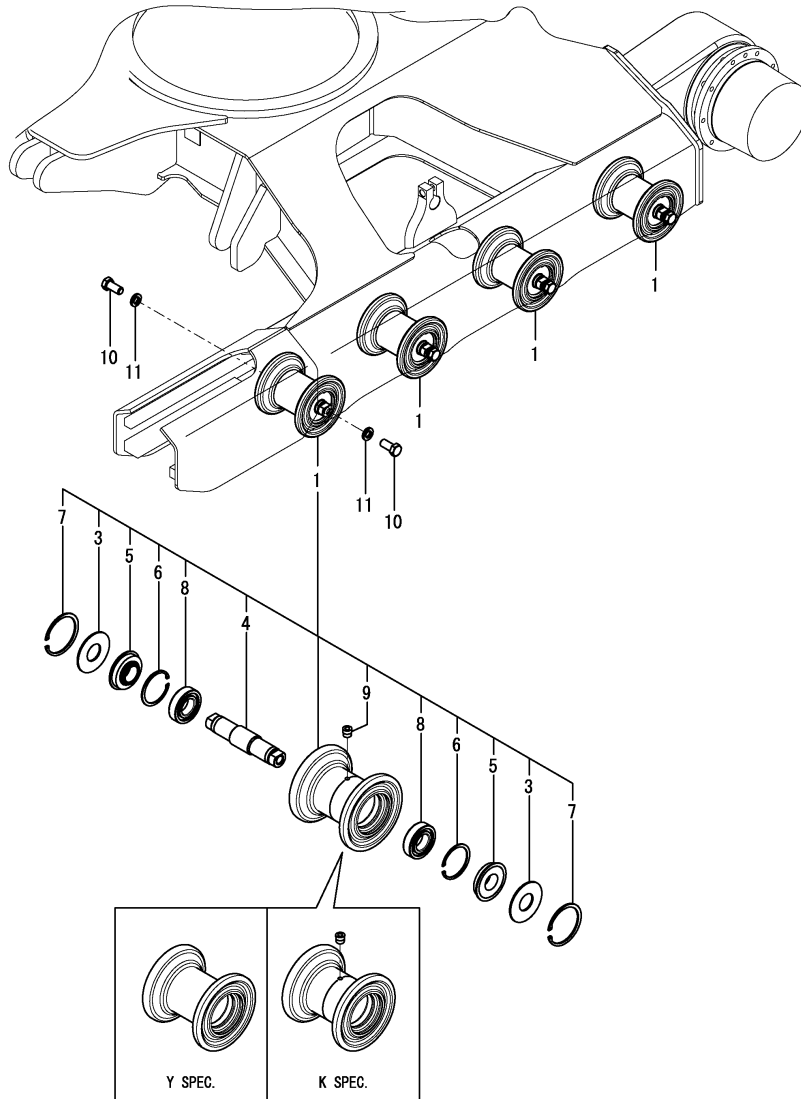
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17110	BOX, SWITCH	1							
2	2	172472-03290	LABEL, SWITCH	1							
3	2	172472-03300	LABEL, COVER	1							
4	2	172958-17101	BOX, SWITCH	1							
7	3	172958-17140	SWITCH ASSY	1							
8	3	172958-17150	SWITCH ASSY	1							
9	3	172958-17160	LAMP, INDICATOR	1							
10	3	172958-17170	SCREW, TAPPING	6							
11	3	172958-17180	SCREW, TAPPING	2							
12	3	172958-17190	PACKING	1							
13	3	172958-17200	BRACKET	1							
14	3	172958-17210	CASE	1							
15	3	172958-17220	CORD	1							
16	3	22351-030028	PIN, SPRING 3.0X28	1							
17	1	172A47-17900	STAY ASSY	1							
18	1	172137-46210	SCREW	3							
19	1	172958-64500	PLUG	1							
20	1	172187-64900	PLUG	1							
21	1	26013-080162	BOLT, M8X 16	2							

OCS10-M52900 TRAVELING
Fig.20. SPROCKET & ROLLER



Remarks
(1)INC.REF.NO.3,11,12.
(2)Y specification. replacement with Fig.89(20A) No.1.
The inner parts are not compatible.
(3)Interchangeable by simultaneous replacement with No.28.

OCS10-M52900 Fig.20										
				(A)=VIO30-5B P(KR)	(D)=					
				(B)=	(E)=					
				(C)=	(F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
1	1	172141-29111	SPROCKET	2						
2	1	26013-120352	BOLT, SPRING M12X 35	18						
2-1	1	172B03-36350	BOLT, 10.9 M12X35	18						S 3
		(A=M56300)								
3	1	172441-37301-2	ROLLER, TRUCK	8						
3-1	1	172441-37302	ROLLER ASSY,TRACK	8						N
		(A=M56300)								
3-2	1	172441-37302	ROLLER ASSY,TRACK	8						Z 2
		(A=M56300)								
5	2	172422-37310	SHAFT, ROLLER	8						
6	2	172141-37320	SPACER	16						
7	2	1A1030-48250	SEAL,OIL QLF30621218	16						
8	2	22252-000620	RING, 62	16						
9	2	22252-000750	RING, 75	16						
10	2	933111-73800	BEARING, BALL	16						
11	1	172490-37320	BOLT	16						
12	1	22217-160000	WASHER, SPRING 16	16						
13	1	172458-37500-2	ROLLER ASSY, CARRIER	2						
15	2	172458-37570	SHAFT	2						
16	2	172458-37580	SEAL, OIL	2						
17	2	172458-37590	COLLAR	2						
18	2	194630-42120	PLUG, PT1/8	2						
19	2	22242-000250	RING, 25	2						
20	2	22252-000521	RING, 52	2						
21	2	24101-062054	BEARING, BALL 6205	2						
22	2	24102-062054	BEARING, BALL 6205U	2						
23	2	27260-520000	PLUG, 52	2						
24	1	22217-140000	WASHER, SPRING 14	2						
25	1	26116-140652	BOLT, M14X 65 PLATED	2						
26	1	26716-140002	NUT, M14	2						
27	1	772441-37300-2	ROLLER ASSY, TRUCK	8						W 1
		(A=M56300)								
27-1	1	772441-37300-2	ROLLER ASSY, TRUCK	8						Z
		(A=M56300)								
28	1	22217-120000	WASHER, SPRING 12	18						W
		(A=M56300)								



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

Remarks
*Track roller(Y spec.) are shown in Fig.20.
The inner parts are not compatible.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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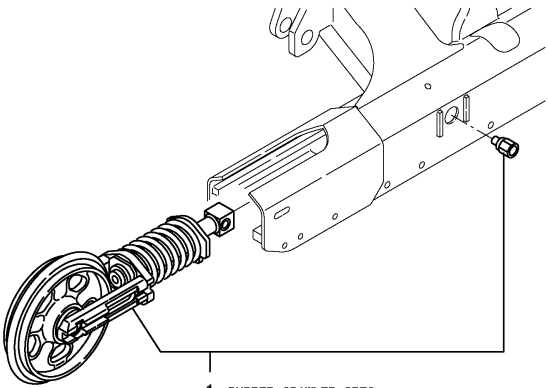
OCS10-M52900 TRAVELING
Fig.21. IDLER & ADJUST

(A)=VIO30-5B P(KR)
(B)=
(C)=

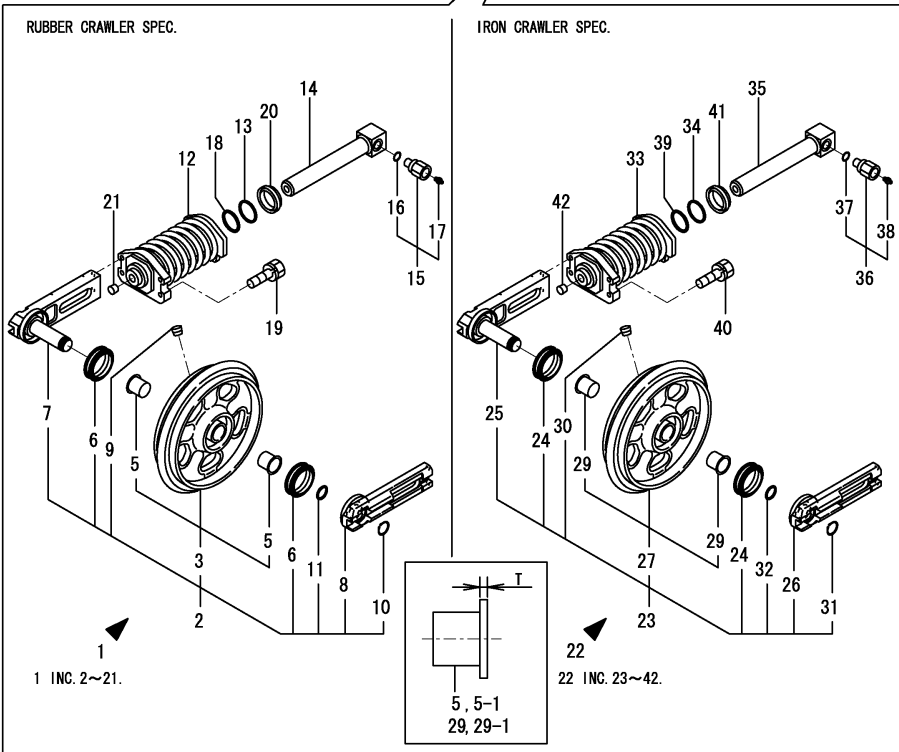
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772458-37200-2	IDLER ASSY, RUBBER	2							
2	2	772458-37100-2	IDLER ASSY	2							
3	3	172458-37101-2	IDLER ASSY	2							
3-1	3	172458-37102-1	IDLER ASSY	2							N
(A=M54225)											
5	4	172423-37370	BUSH	4							
5-1	4	172A77-37370	BUSH	4						S	3
(A=M54225)											
6	3	172458-37120	SEAL, FLOATING	4							
7	3	172458-37130	SHAFT ASSY, IDLER	2							
7-1	3	172458-37131	SHAFT ASSY, IDLER	2							N
(A=M54225)											
8	3	172458-37150	COVER, SEAL	2							
8-1	3	172458-37151	COVER, SEAL	2							N
(A=M54225)											
9	3	194630-42120	PLUG, PT1/8	2							
10	3	22242-000300	RING, 30	2							
11	3	24321-000300	O-RING, 1AG30.0	2							
12	2	172458-37700	SPRING ASSY, CRAWLER	2							
13	2	172460-37750	RING, BACK UP	2							
14	2	172422-37780	PISTON ASSY, ADJUST	2							
15	2	172122-37844	VALVE ASSY, NIPPLE	2							
16	3	24315-000140	O-RING, 1BP14.0	2							
17	3	24761-020000	NIPPLE, GREASE PT1/8	2							
18	2	24325-000400	O-RING, 1BG40.0	2							
19	2	26013-100402	BOLT, M10X 40	8							
20	2	933111-23600	SEAL, OIL	2							
21	2	933171-13691	PLUG	2							
22	1	772458-37120-2	IDLER ASSY, IRON	2							
23	2	772458-37110-2	IDLER ASSY	2							
24	3	172458-37120	SEAL, FLOATING	4							
25	3	172458-37130	SHAFT ASSY, IDLER	2							
25-1	3	172458-37131	SHAFT ASSY, IDLER	2							N
(A=M54214)											
26	2	172458-37150	COVER, SEAL	2							
26-1	3	172458-37151	COVER, SEAL	2							N
(A=M54214)											
27	2	172458-37171-2	IDLER ASSY	2							
27-1	3	172458-37172-1	IDLER ASSY	2							N
(A=M54214)											
29	4	172423-37370	BUSH	4							
29-1	4	172A77-37370	BUSH	4						S	3
(A=M54214)											
30	3	194630-42120	PLUG, PT1/8	2							
31	3	22242-000300	RING, 30	2							
32	3	24321-000300	O-RING, 1AG30.0	2							
33	2	172458-37700	SPRING ASSY, CRAWLER	2							
34	2	172460-37750	RING, BACK UP	2							
35	2	172422-37780	PISTON ASSY, ADJUST	2							
36	2	172122-37844	VALVE ASSY, NIPPLE	2							
37	3	24315-000140	O-RING, 1BP14.0	2							

N:Old New, Q:Old New, R:Old New, S:Old New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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1 RUBBER CRAWLER SPEC.
22 IRON CRAWLER SPEC.



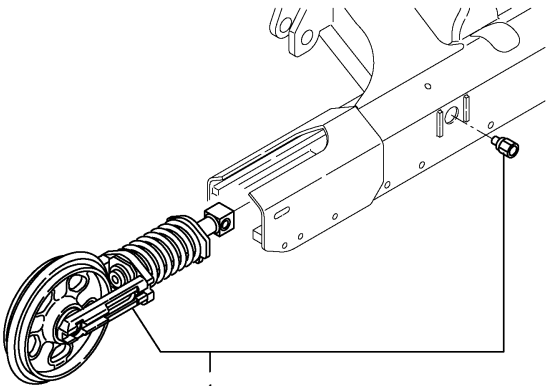
Remarks
(1)T=Ref.No.5,29 2mm,
No.5-1,29-1 4.5mm.

Fig.21. IDLER & ADJUST

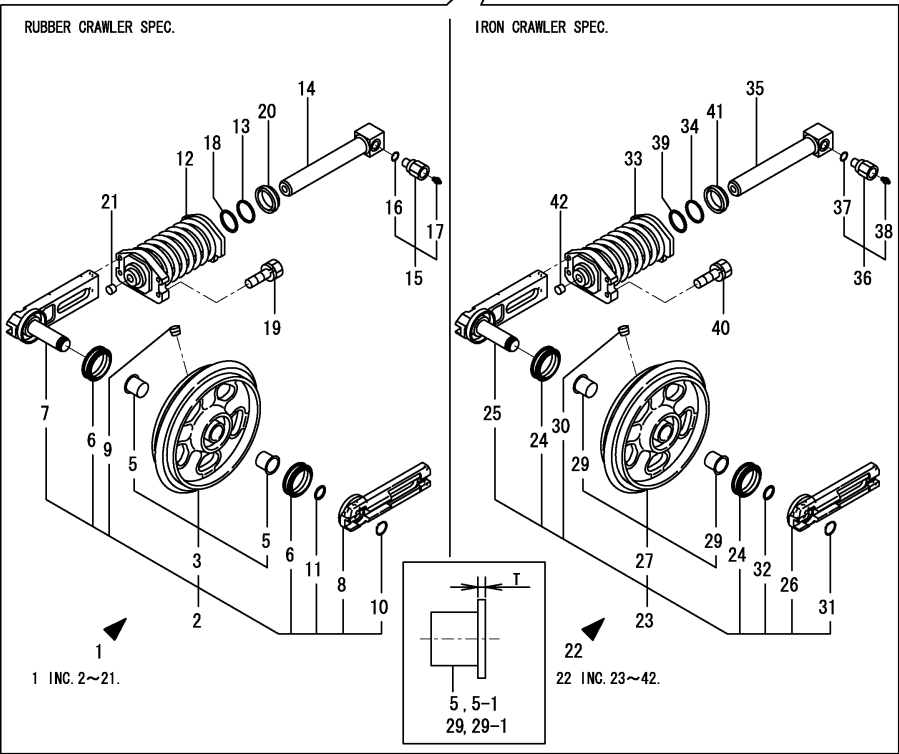
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

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



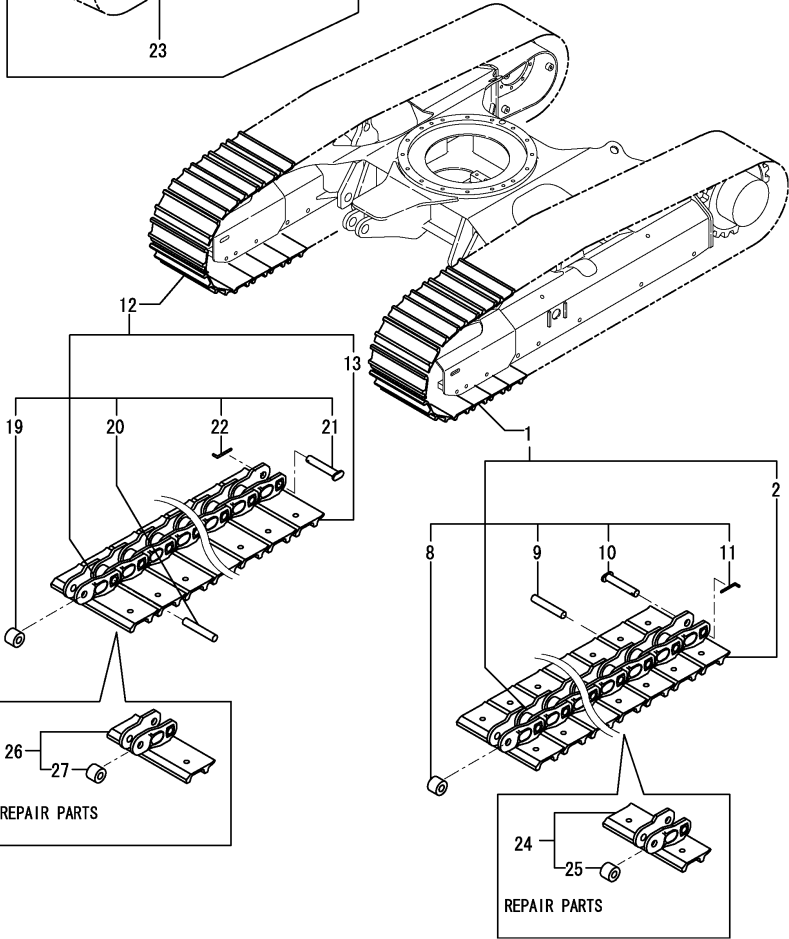
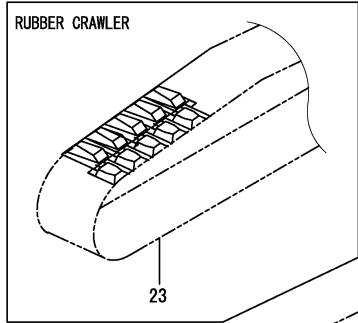
1 RUBBER CRAWLER SPEC.
22 IRON CRAWLER SPEC.



Remarks
(1)T=Ref.No.5,29 2mm,
No.5-1,29-1 4.5mm.

(A)=VIO30-5B P(KR)
(B)=
(C)=

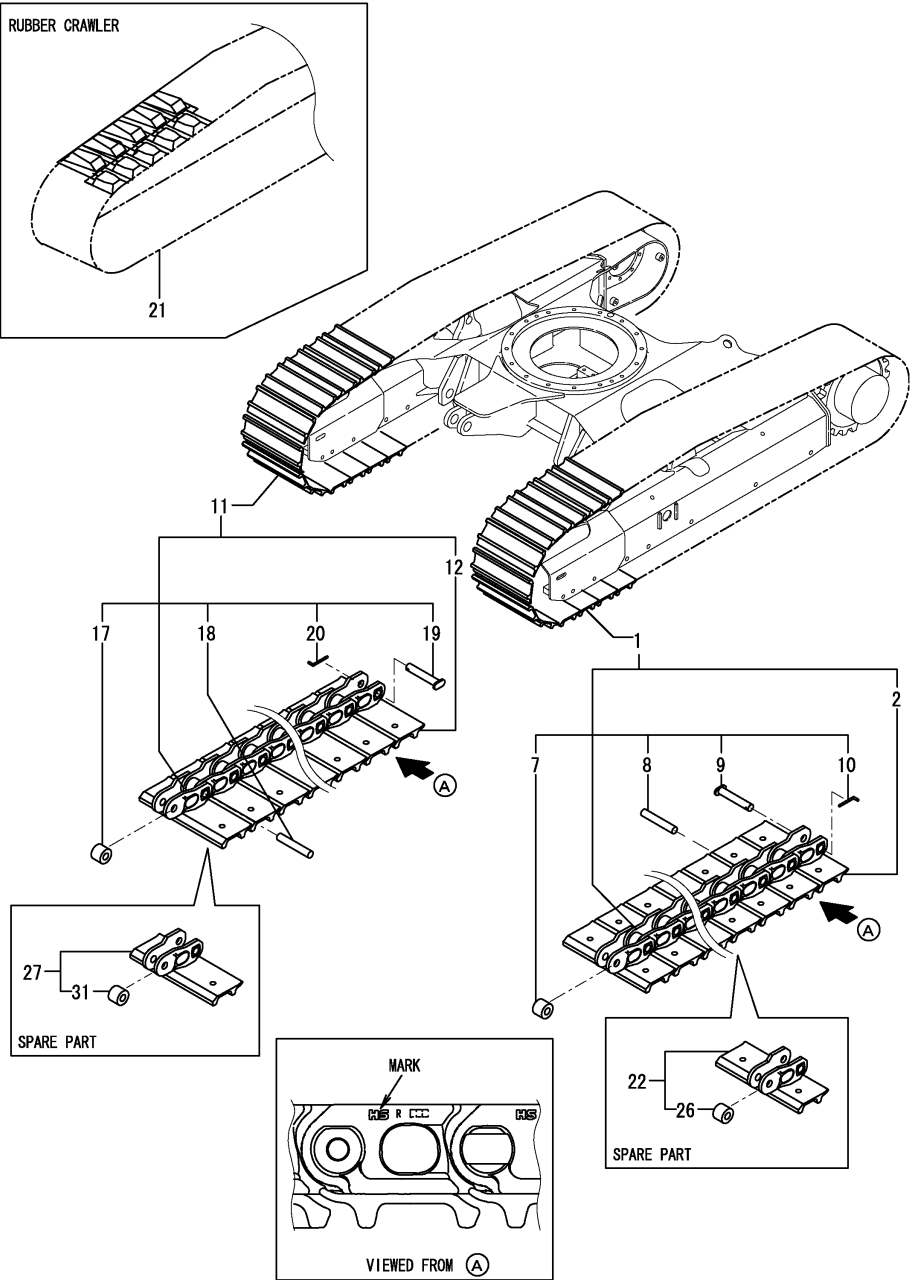
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-38101	SHOE ASSY, TRACK 300	1							1
2	2	172458-38110-2	PLATE, SHOE	43							
8	3	172458-38201	BUSH, TRUCK	43							
9	3	172458-38210	PIN, TRUCK	42							
10	3	172458-38220	PIN, MASTER	1							
11	3	172458-38230	PIN, STOP	1							
12	1	172458-38121	SHOE ASSY, TRACK 300	1							2
13	2	172458-38130-2	PLATE, SHOE	43							
19	3	172458-38201	BUSH, TRUCK	43							
20	3	172458-38210	PIN, TRUCK	42							
21	3	172458-38220	PIN, MASTER	1							
22	3	172458-38230	PIN, STOP	1							
23	1	172422-38603	CRAWLER, RUBBER 300	2							
24	1	172458-38300-2	TRACK ASSY, MASTER	1							
25	2	172458-38200	BUSH, TRUCK	1							
26	1	172458-38310-2	TRACK ASSY, MASTER	1							
27	2	172458-38200	BUSH, TRUCK	1							

Remarks
(1)Interchangeable with Fig.85
Ref.No.1.
(2)Interchangeable with Fig.85
Ref.No.11.

Fig.87. (22A)CRAWLER(FROM M54582)



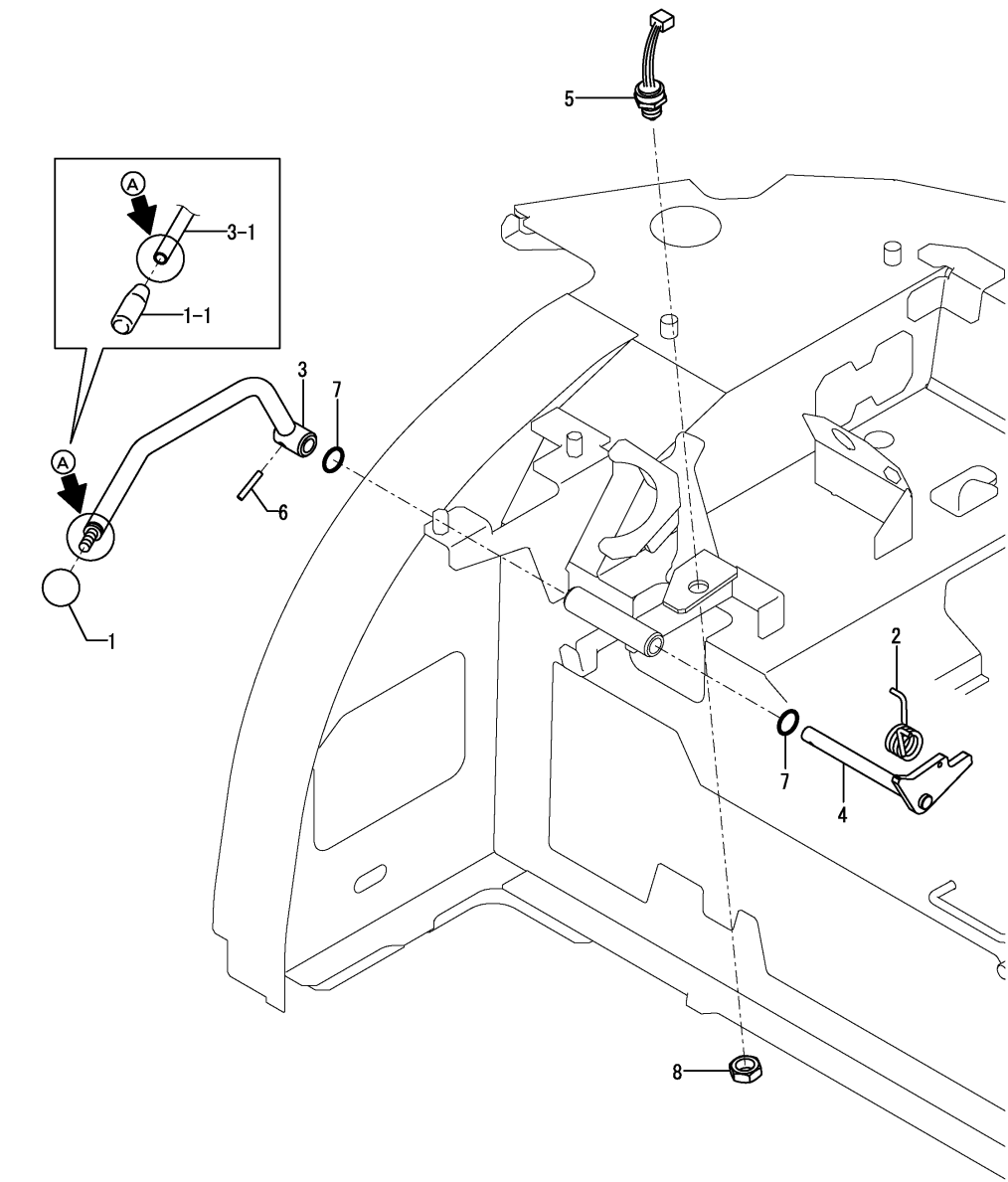
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A85-38100	SHOE ASSY, TRACK 300	1							1
2	2	172A85-38110	PLATE, SHOE 300L	43							
7	2	172A85-38200	BUSH, TRACK	43							
8	2	172A85-38210	PIN, TRACK	42							
9	2	172A85-38220	PIN, MASTER	1							
10	2	172A85-38230	PIN, CLAMPING	1							
11	1	172A85-38120	SHOE ASSY, TRACK 300	1							1
12	2	172A85-38130	PLATE, SHOE 300R	43							
17	2	172A85-38200	BUSH, TRACK	43							
18	2	172A85-38210	PIN, TRACK	42							
19	2	172A85-38220	PIN, MASTER	1							
20	2	172A85-38230	PIN, CLAMPING	1							
21	1	172422-38603	CRAWLER, RUBBER 300	2							
22	1	172A85-38300	TRACK, MASTER 300L	1							
26	2	172A85-38200	BUSH, TRACK	1							
27	1	172A85-38310	TRACK, MASTER 300R	1							
31	2	172A85-38200	BUSH, TRACK	1							

Remarks
(1)A= There is mark HS.

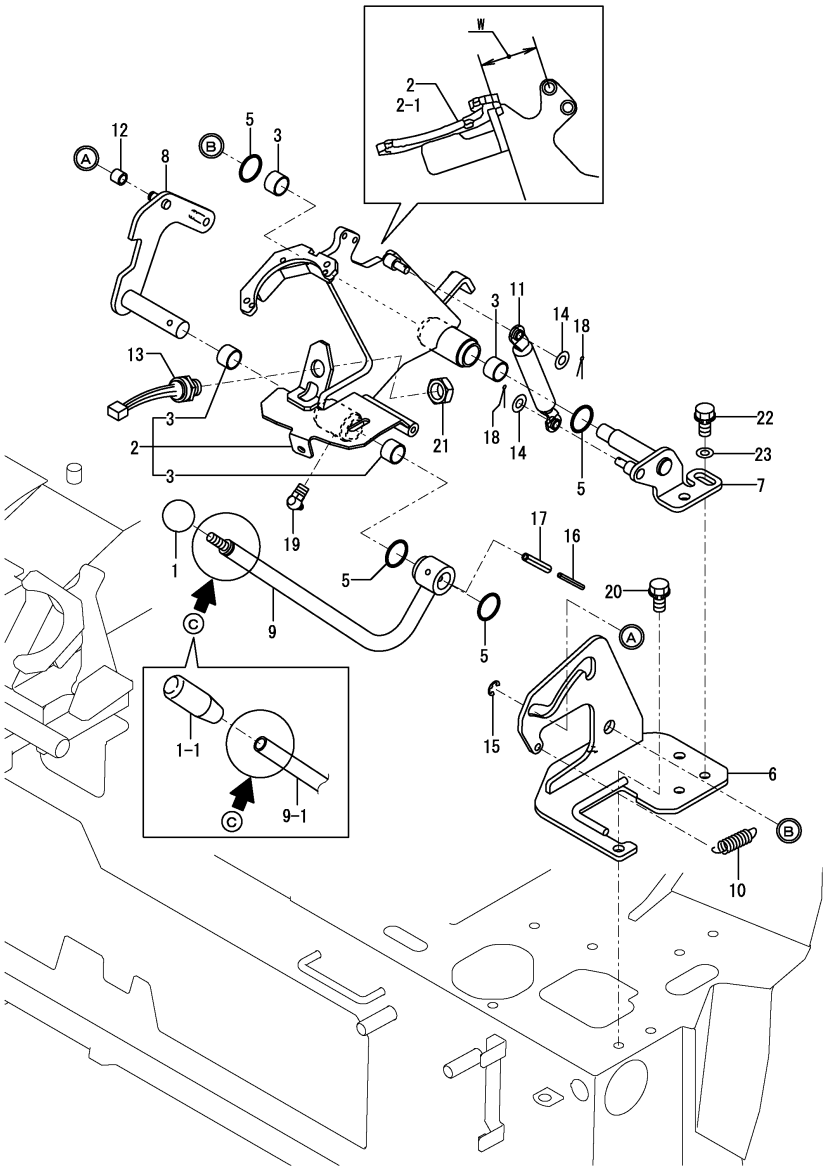
Fig.23. CONTROL EQUIPMENT(LOCK LEVER & STAND : RIGHT)



Remarks
(1)A=REF.NO.3 M10 SCREW,
NO.3-1 NO SCREW.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH RE.NO.1-1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP	1							
1-1	1	172A77-46050	GRIP	1						S	
(A=MZZZZZ)											
2	1	172165-45970	SPRING	1							
3	1	172A47-46451	LEVER ASSY, LOCK	1							
3-1	1	172A47-46452	LOCK LEVER ASSY,R(49	1						F	1
(A=MZZZZZ)											
4	1	172A47-46470	SHAFT ASSY, LEVER	1							
4-1	1	172A47-46471	SHAFT ASSY, LEVER	1						N	
(A=M53520)											
5	1	194464-52190	SWITCH, SAFETY START	1							
6	1	22351-050032	PIN, SPRING 5.0X32	1							
7	1	24311-000210	O-RING, 1AP21.0	2							
8	1	26776-180002	NUT, LOCK M18	1							

Fig.24. CONTROL EQUIPMENT(LOCK LEVER & STAND : LEFT)



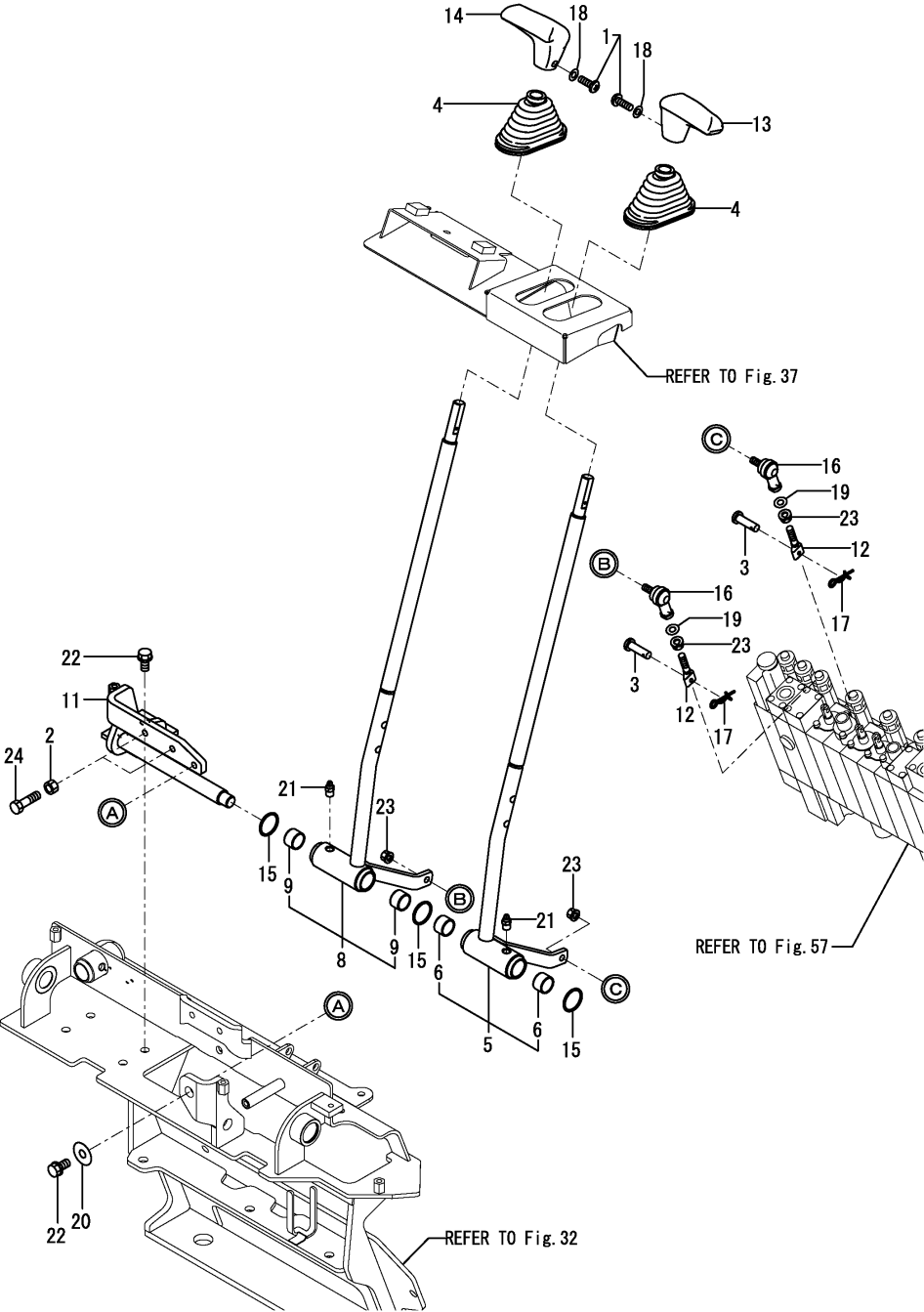
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP	1							
1-1	1	172A77-46050	GRIP	1						S	
(A=MZZZZZ)											
2	1	172A78-46100	STAND ASSY, LEVER	1							
2-1	1	172A78-46101	STAND ASSY, LEVER	1						S	2
(A=M53889)											
3	2	172141-41370	BUSH	4							
5	1	172124-46200	O-RING	4							
6	1	172A47-46210	BASE ASSY, LEVER	1							
7	1	172A47-46230	PLATE ASSY, BASE	1							
8	1	172A47-46310	ROD ASSY, SPRING	1							
9	1	172A47-46343	LEVER ASSY, LOCK	1							
9-1	1	172A47-46344	LEVER ASSY, LOCK	1						F	1
(A=MZZZZZ)											
10	1	172162-46690	SPRING	1							
10-1	1	172A69-46270	SPRING	1						N	
(A=M53480)											
11	1	172455-46890	SPRING, GAS	1							
12	1	172165-47550	BUSH	1							
13	1	194464-52190	SWITCH, SAFETY START	1							
14	1	22137-080000	WASHER, 8	2							
15	1	22272-000070	RING, E- 7	1							
16	1	22351-035040	PIN, SPRING 3.5X40	1							
17	1	22351-060040	PIN, SPRING 6.0X40	1							
18	1	22417-200200	PIN, COTTER 2.0X20	2							
19	1	24761-050000	NIPPLE, GREASE C	1							
20	1	26013-100202	BOLT, M10X 20	3							
21	1	26776-180002	NUT, LOCK M18	1							
22	1	26013-100252	BOLT, M10X 25	2							
23	1	22137-100000	WASHER, 10	2							

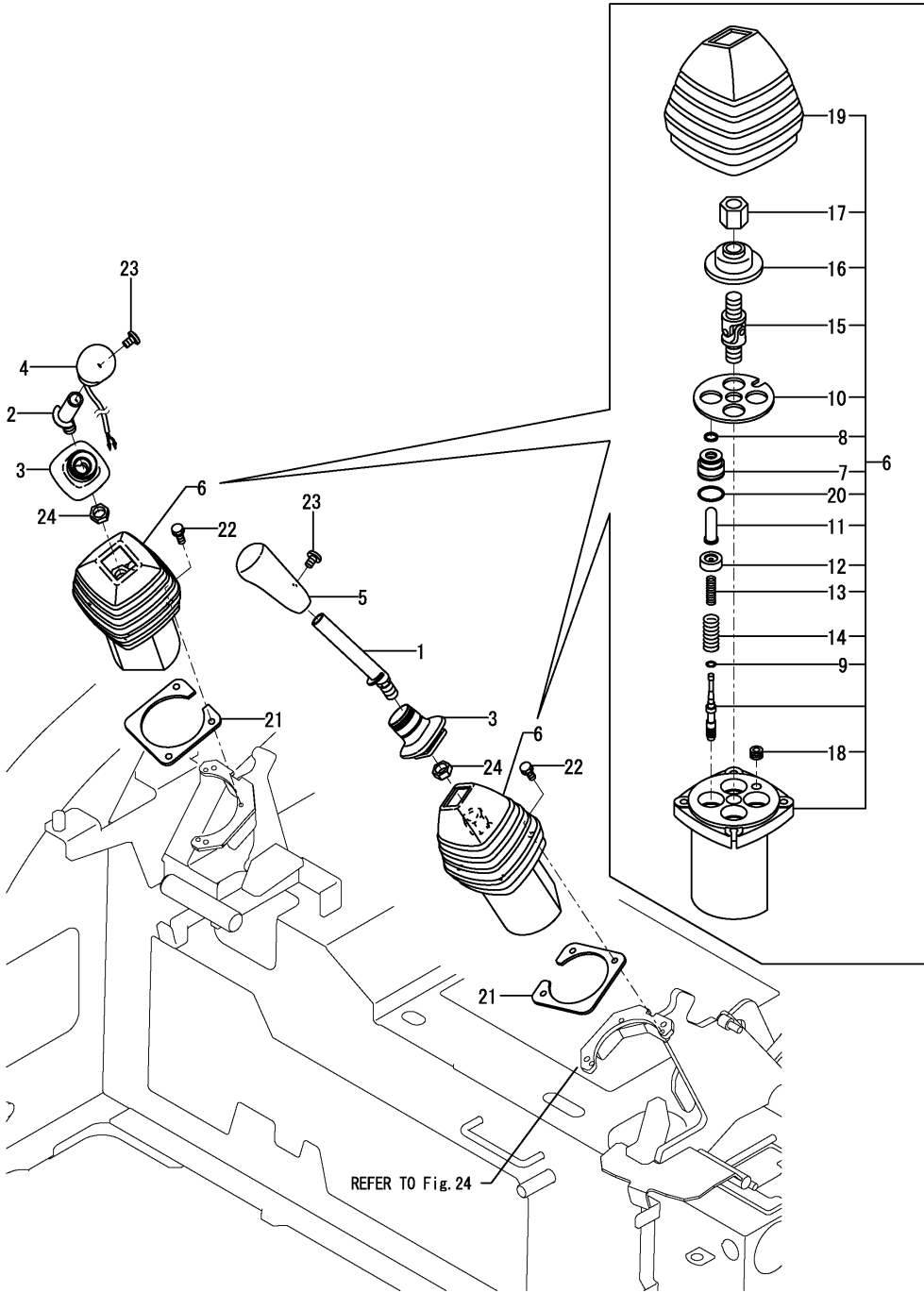
Remarks
(1)C=REF.NO.9 M10 SCREW,
NO.9-1 NO SCREW.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH RE.NO.1-1.
(2)REF.NO.2 W=41MM,REF.NO.2-1 W=45MM.

Fig.25. CONTROL EQUIPMENT(TRAVEL LEVER)



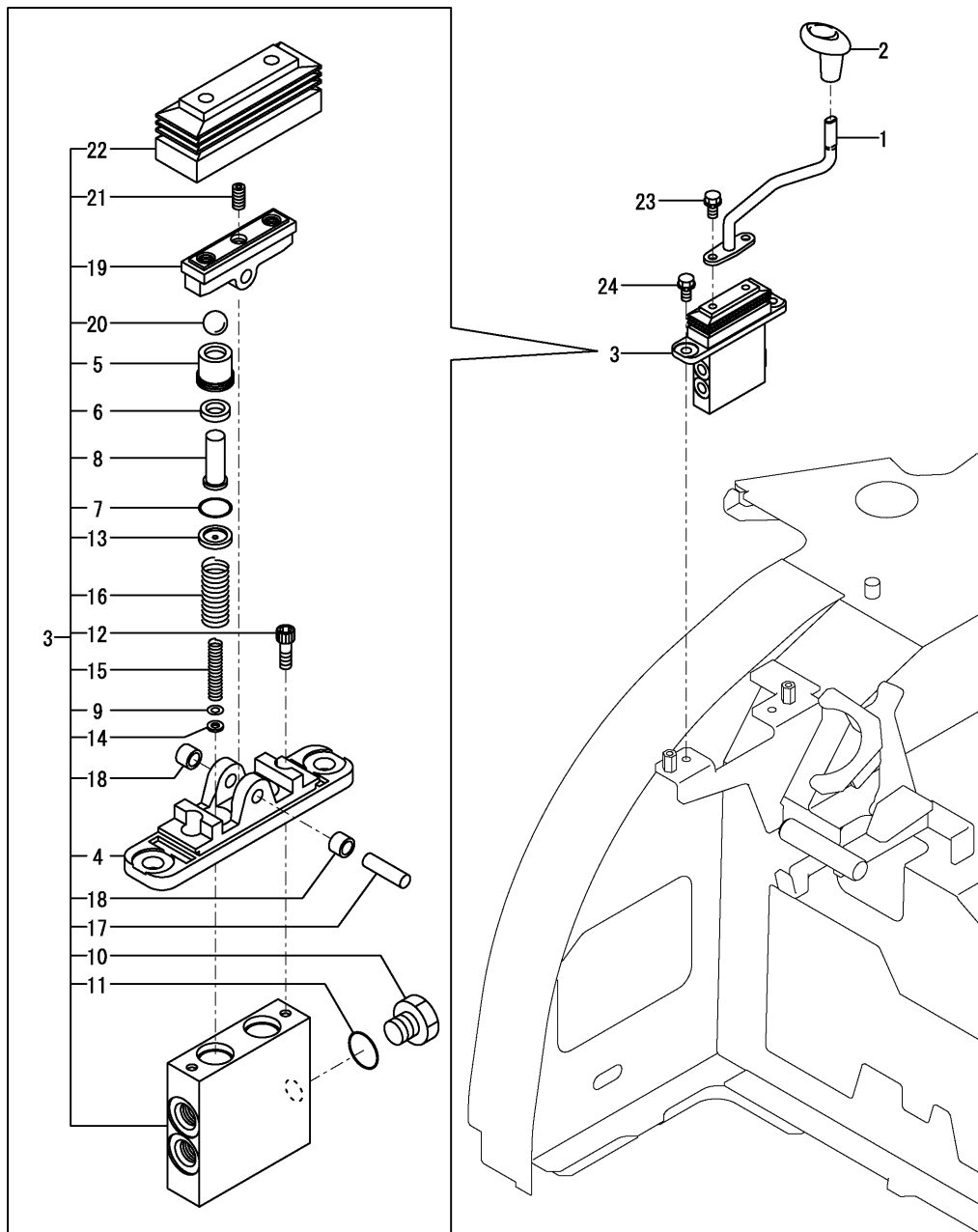
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26587-040122	SCREW, M4X12	2							
2	1	26716-100002	NUT, M10	2							
3	1	933110-54100	PIN	2							
4	1	172141-41340	BOOT	2							
5	1	172A47-45100	LEVER, TRUCK	1							
6	2	172141-41370	BUSH	2							
8	1	172A47-45150	LEVER,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

Fig.26. CONTROL EQUIPMENT(OPERATION LEVER)



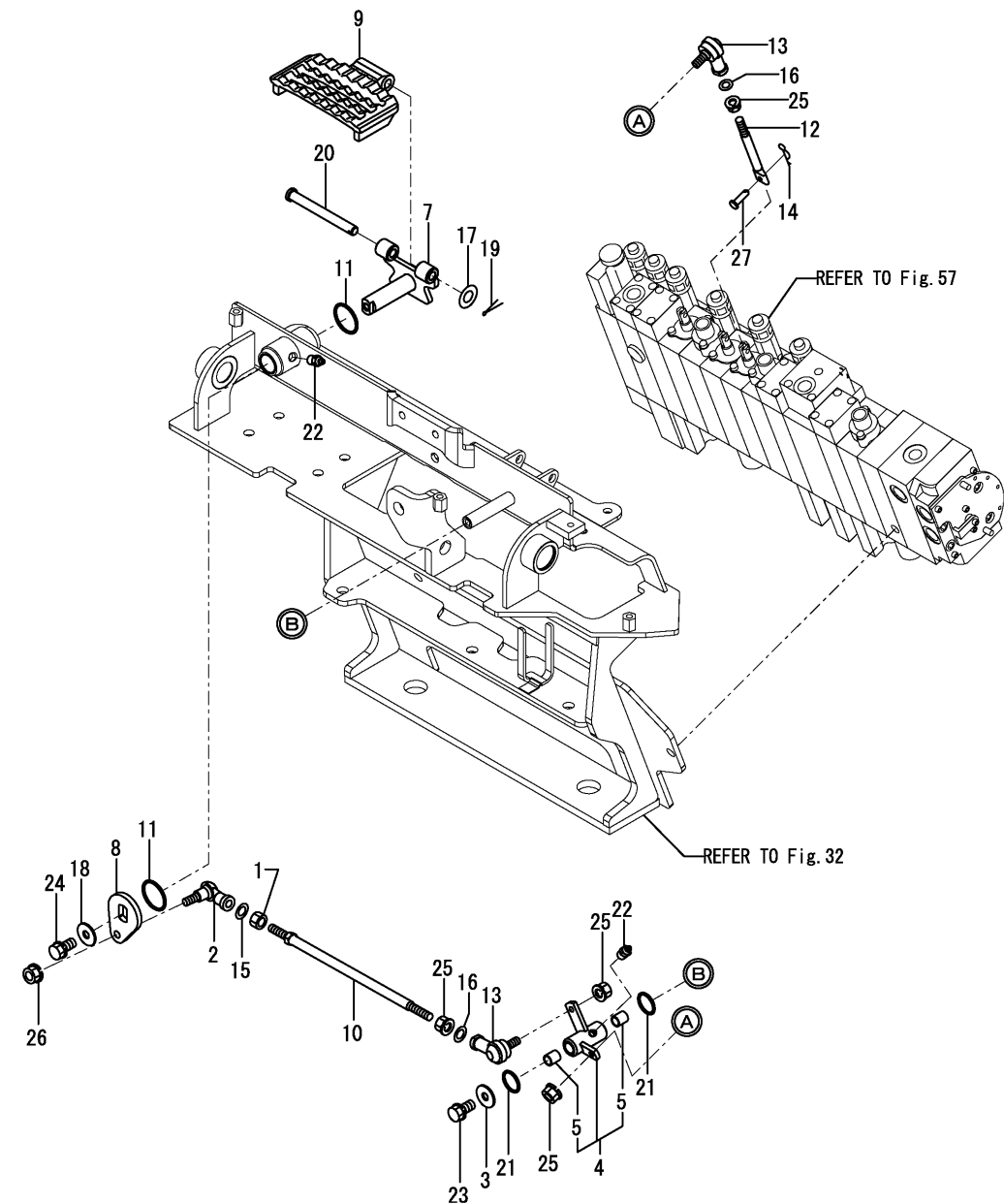
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A64-45010	LEVER L CMP	1							
2	1	172A64-45040	LEVER R CMP	1							
3	1	172A64-45070	RUBBER BOOT	2							
4	1	172A46-45500	KNOB ASSY	1							
5	1	172A46-45510	KNOB ASSY	1							
6	1	172A64-74500	REMOTE CONTROL VALVE	2							
7	2	172151-73400	PLUG	8							
8	2	172151-73420	SEAL	8							
9	2	172151-73450	WASHER	8							
10	2	172A64-74590	PLATE	2							
11	2	172A64-74600	ROD,PUSH	8							
12	2	172A64-74610	SEAT, SPRING	8							
13	2	172A64-74620	SPRING	8							
14	2	172A64-74630	SPRING	8							
15	2	172A64-74640	JOINT	2							
16	2	172A64-74650	PLATE	2							
17	2	172A64-74660	NUT	2							
18	2	172A64-74670	BUSH	2							
19	2	172A64-74680	BELLOWS	2							
20	2	24315-000200	O-RING, 1BP20.0	8							
21	1	172A78-74650	PLATE ASSY,VALVE	2							
22	1	26013-060302	BOLT, M6X 30	6							
23	1	26587-040062	SCREW, M4X 6	2							
24	1	26756-140002	NUT, LOCK M14	2							

Fig.27. CONTROL EQUIPMENT(BLADE LEVER)



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

Fig.28. CONTROL EQUIPMENT(SWING PEDAL)

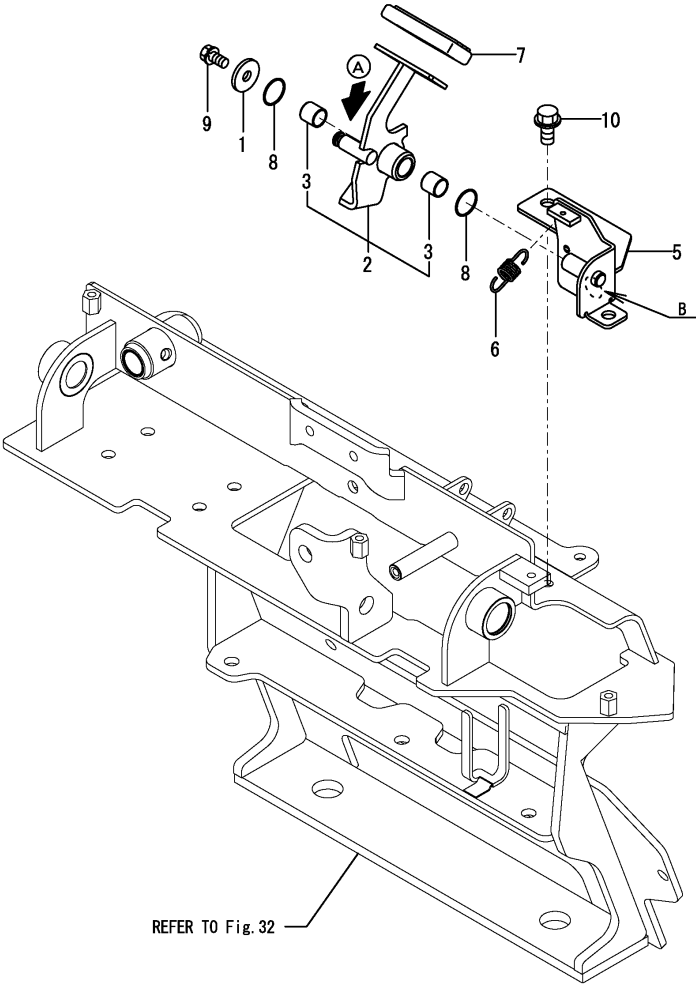
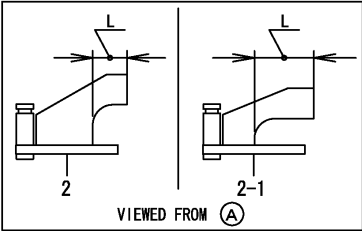


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194200-37780	NUT, M8	1							
2	1	172734-41300	JOINT, BALL	1							
3	1	1A1040-43900	WASHER, SPRING	1							
4	1	172A47-45200	LINK ASSY, SWING	1							
5	2	172141-41360	BUSH	2							
7	1	172A47-45260	PIN ASSY, SWING	1				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

Fig.29. CONTROL EQUIPMENT(LOW-HIGH PEDAL)

(A)=VIO30-5B P(KR)
(B)=
(C)=

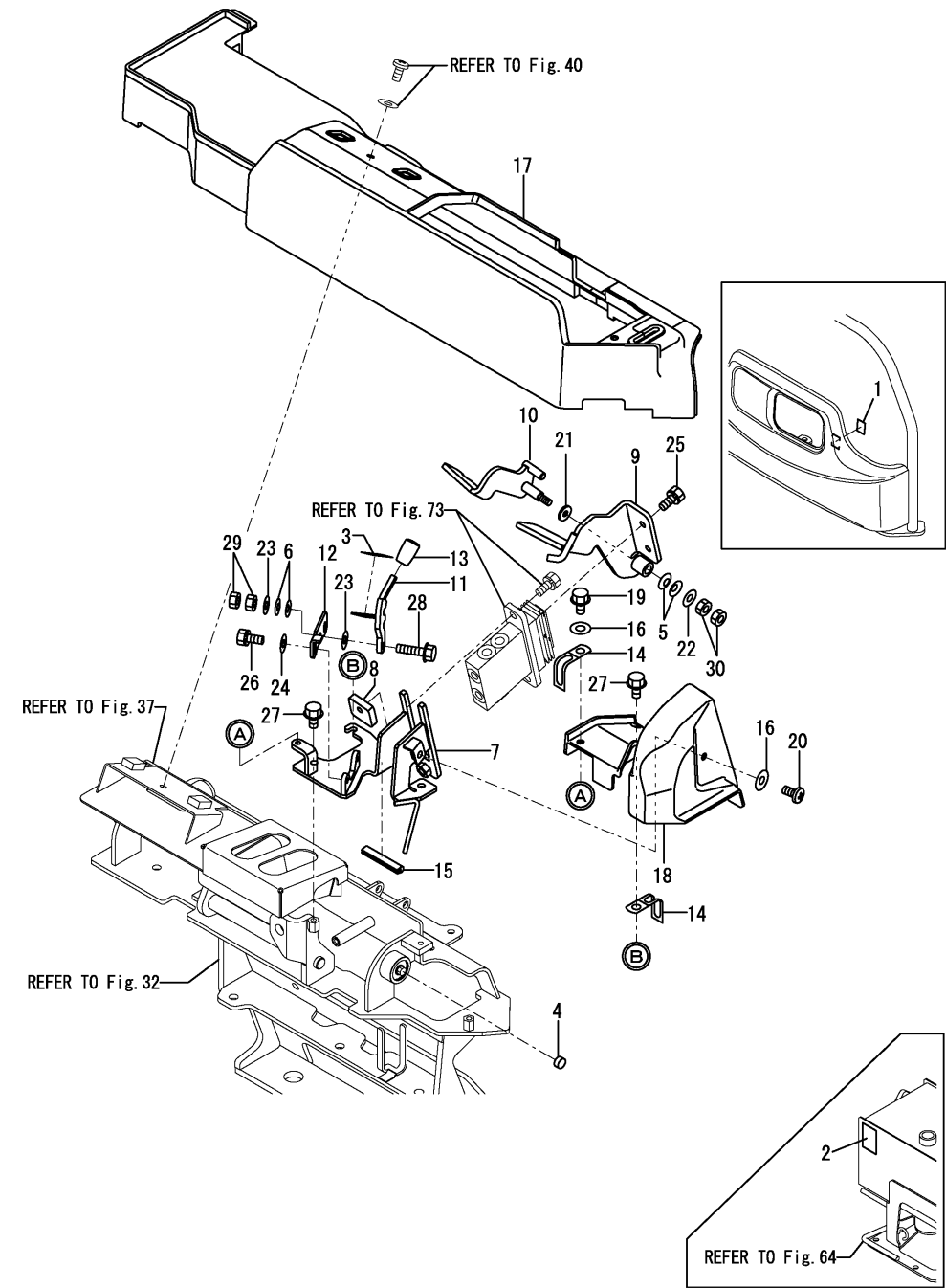
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A1040-43900	WASHER, SPRING	1							
2	1	172A47-45501	PEDAL, SPEED	1							1
2-1	1	172A47-45502	PEDAL ASSY, SPEED	1						S	1
(A=M54288)											
3	2	172141-41360	BUSH	2							
5	1	172A47-45531	BRACKET	1							2
5-1	1	172A47-45532	BRACKET ASSY	1						S	2
(A=M54288)											
6	1	172A47-45580	SPRING	1							
7	1	172458-45950	PAD, PEDAL	1							
8	1	24311-000210	O-RING, 1AP21.0	2							
9	1	26013-080162	BOLT, M8X 16	1							
10	1	26106-080162	BOLT, M8X 16 PLATED	2							

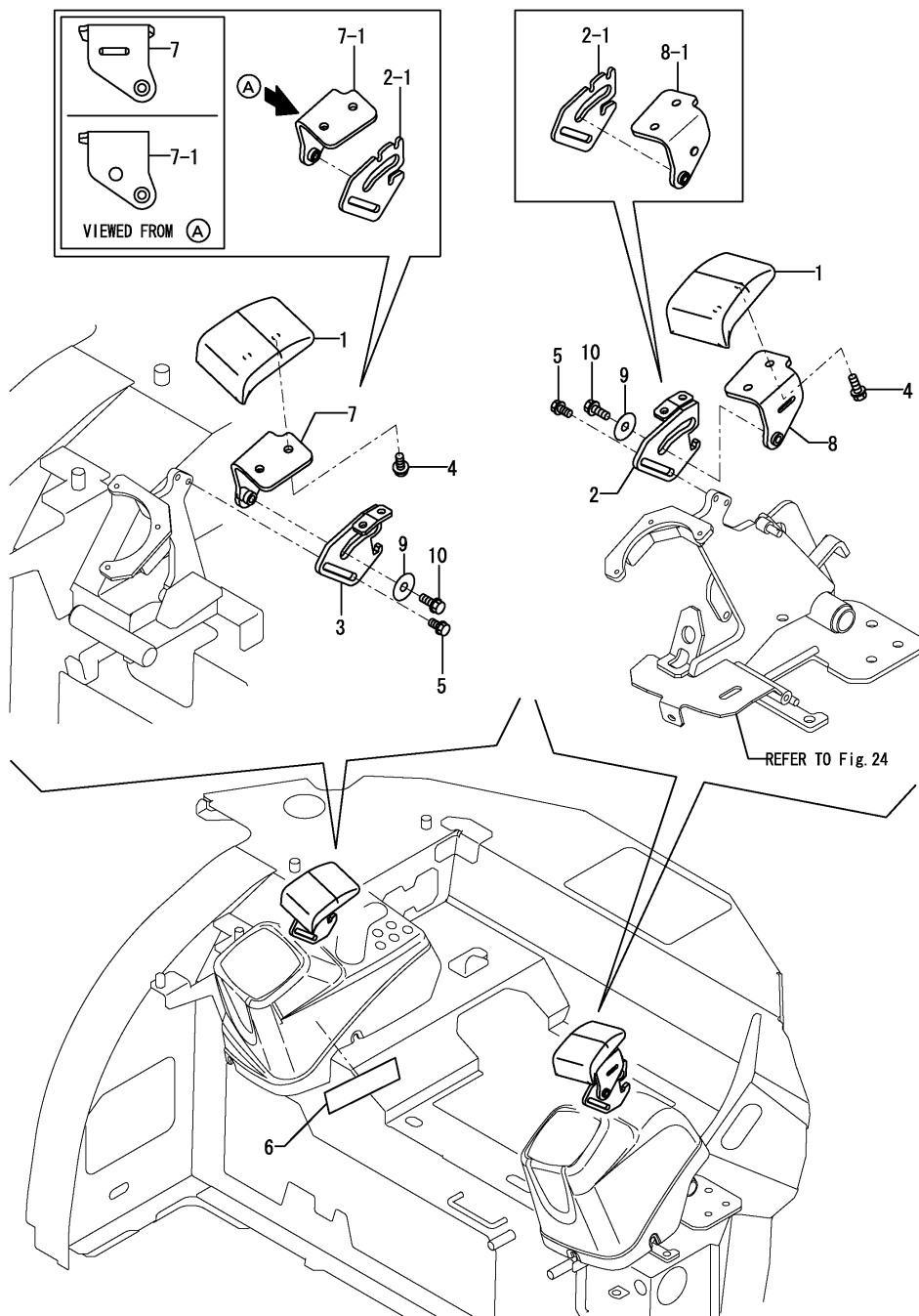
Remarks
(1)L=Ref.No.2 17mm, No.2-1 35mm.
(2)B part hole diameter=Ref.No.5 19mm
No.5-1 21mm.

Fig.30. CONTROL EQUIPMENT(P.T.O. PEDAL)



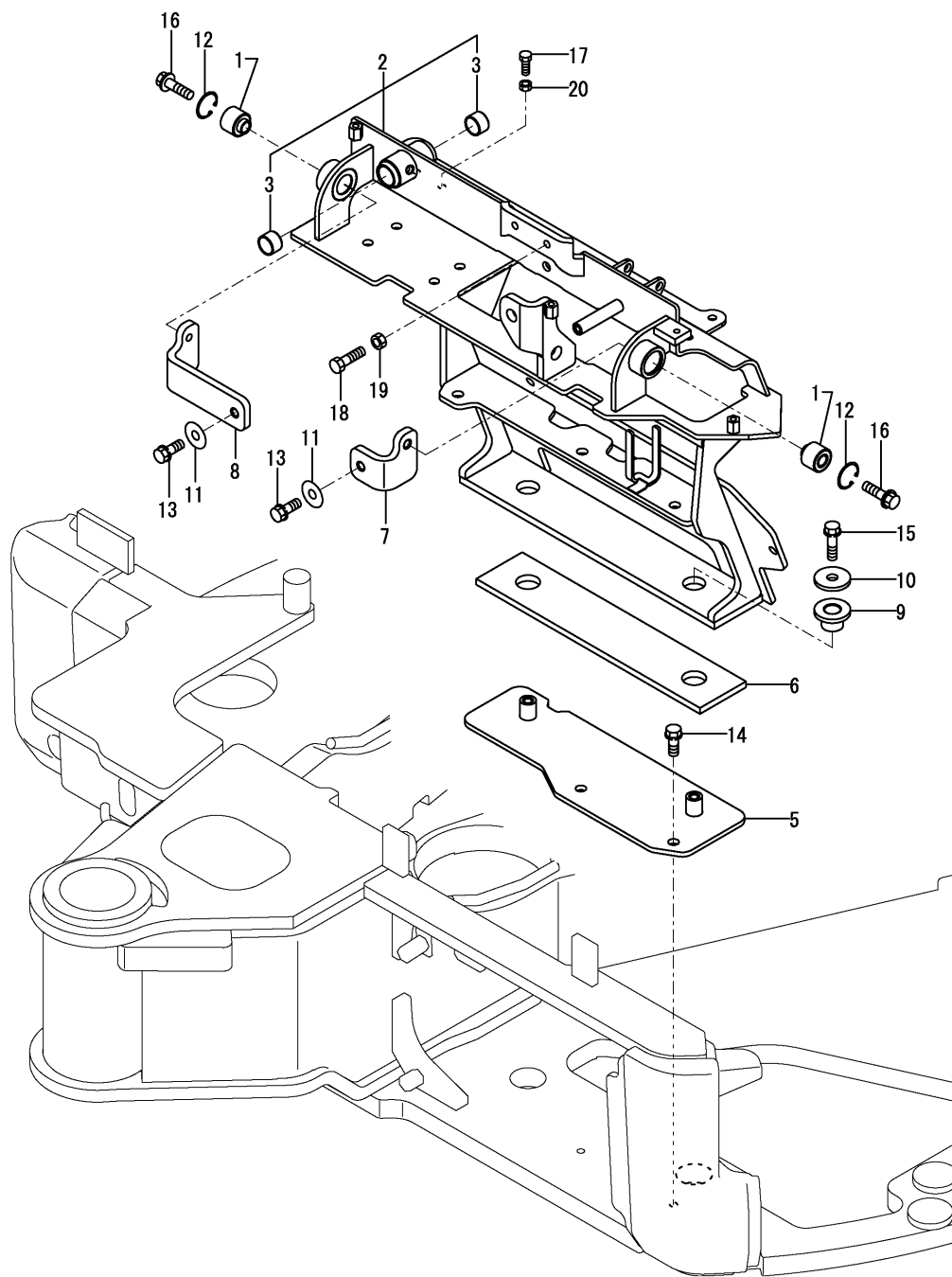
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-03220	LABEL, PTO	1							
2	1	172A46-03270	LABEL, PTO SELECT	1							
3	1	172A46-03280	LABEL, LOCK	1							
4	1	172725-16380	GROMMET	1							
5	1	172068-28490	SPRING	2							
6	1	172068-28490	SPRING	2							
7	1	172A46-46101	BRACKET, PTO	1							
8	1	172A46-46160	STAY	1							
9	1	172A46-46201	BRACKET, PEDAL	1							
10	1	172A46-46301	PEDAL ASSY, SUB	1							
11	1	172A46-46400	PLATE, LOCK	1							
12	1	172A46-46430	PLATE, LINK	1							
13	1	172116-46630	KNOB, LEVER	1							
14	1	194440-51620	CLAMP	2							
14-1	1	194440-51620	CLAMP	1							K
(A=M51436)											
15	1	172183-61360	TRIM	1							
16	1	172458-62430	WASHER	2							
17	1	172A46-62500	MAT, FLOOR	1							
18	1	172A46-62510	COVER, PEDAL	1							
19	1	172519-63240	BOLT	1							
20	1	172137-69850	SCREW	1							
21	1	22111-120000	WASHER 12	1							
22	1	22137-080000	WASHER, 8	1							
23	1	22137-080000	WASHER, 8	2							
24	1	22137-080000	WASHER, 8	2							
25	1	26013-080162	BOLT, M8X 16	2							
26	1	26013-080162	BOLT, M8X 16	2							
27	1	26106-080162	BOLT, M8X 16 PLATED	2							
28	1	26106-080302	BOLT, M8X 30 PLATED	1							
29	1	26756-080002	NUT, LOCK M8	2							
30	1	26756-080002	NUT, LOCK M8	2							

Fig.31. ARM REST



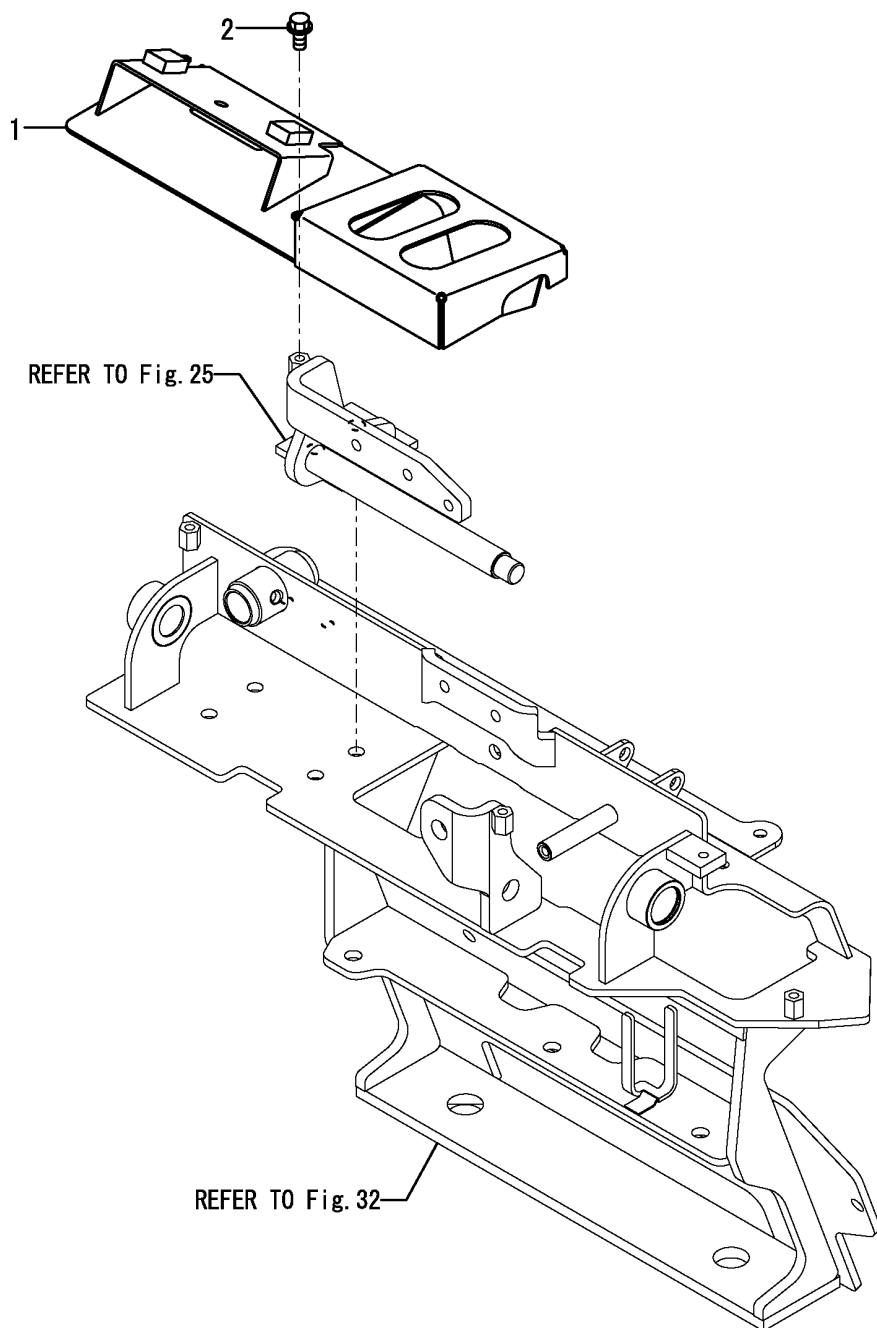
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172441-44320	ARMREST	2							
2	1	172A46-46702	PLATE, ARMREST	1							
2-1	1	172A46-46703	PLATE,ARMREST L/R	2							S
3	1	172A46-46602	PLATE, ARMREST	1							Z
4	1	172519-63240	BOLT	4							
4-1	1	26014-080162	BOLT, M8X 16	4							S
5	1	172519-63240	BOLT	4							
6	1	172A46-03230	LABEL, ARMREST	1							Z
7	1	172A46-46631	PLATE, GUIDE	1							
7-1	1	172A46-46632	PLATE,GUIDE R ASSY	1							S
8	1	172A46-46731	PLATE, GUIDE	1							
8-1	1	172A46-46732	PLATE,GUIDE L ASSY	1							S
9	1	22157-080000	WASHER, 8	2							
10	1	26013-080202	BOLT, M8X 20	2							

Fig.32. CONTROL VALVE PLATE



				(A)=VIO30-5B P(KR)	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C)	(D)	(E)	(F)	I	R
1	1	172165-45490	CUSHION	2							
2	1	172A47-45601	MOUNT ASSY, LINK	1							
3	2	172141-41370	BUSH	2							
5	1	172A47-45800	BRACKET ASSY, DAMPER	1							
6	1	172A47-45840	PAD, ABSORBER	1							
7	1	172A47-45870	STAY, DAMPER	1							
8	1	172A47-45880	STAY, DAMPER	1							
9	1	172478-68870	GROMMET	2							
10	1	172478-68890	WASHER	2							
11	1	22157-100000	WASHER, 10	2							
12	1	22252-000280	RING, 28	2							
13	1	26013-100252	BOLT, M10X 25	2							
14	1	26013-100252	BOLT, M10X 25	2							
15	1	26013-100352	BOLT, M10X 35	2							
16	1	26106-100352	BOLT, M10X 35 PLATED	2							
17	1	26116-080204	BOLT, M8X 20 PLATED	2							
18	1	26116-100354	BOLT, M10X 35 PLATED	2							
18-1	1	26116-100304	BOLT, M10X 30 PLATED	2							N
(A=MZZZZZ)											
19	1	26716-100002	NUT, M10	2							
20	1	26756-080002	NUT, LOCK M8	2							

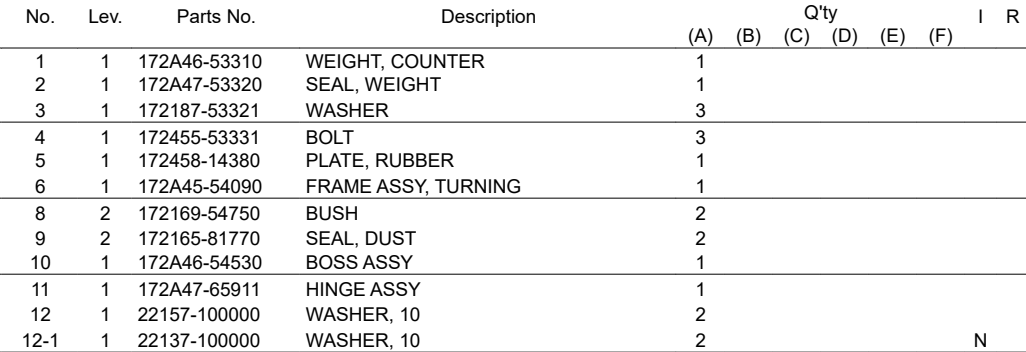
Fig.37. COVER(LINK)



(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-62200	STEP ASSY, CONTROL	1							
1-1	1	172A47-62201	STEP ASSY, CONTROL	1							N
		(A=M54204)									
2	1	26106-080162	BOLT. M8X 16 PLATED	5							



13	1	22217-160000	WASHER, SPRING 16	2	
14	1	24761-050000	NIPPLE, GREASE C	1	
15	1	26013-100402	BOLT, M10X 40	2	
16	1	26116-160402	BOLT, M16X 40 PLATED	2	
17	1	172456-53700	GROMMET	2	
18	1	172187-53321	WASHER	2	
19	1	172A46-53320	WEIGHT	1	
19-1	1	172A46-53321	WEIGHT	1	N

20	1	172A46-53360	NUT	2	
21	1	172A48-53371	BOLT	2	
22	1	172A48-53380	BRACKET ASSY, WEIGHT	1	
23	1	22217-160000	WASHER, SPRING 16	2	Z

23-1	1	933147-08501	WASHER	2	W
------	---	--------------	--------	---	---

24	1	26116-160502	BOLT, M16X 50 PLATED	2
----	---	--------------	----------------------	---

Year	Male	Female	Year	Male	Female
1990	10.0	10.0	1995	10.0	10.0
1991	10.0	10.0	1996	10.0	10.0
1992	10.0	10.0	1997	10.0	10.0
1993	10.0	10.0	1998	10.0	10.0
1994	10.0	10.0	1999	10.0	10.0
2000	10.0	10.0	2000	10.0	10.0
2001	10.0	10.0	2001	10.0	10.0
2002	10.0	10.0	2002	10.0	10.0
2003	10.0	10.0	2003	10.0	10.0
2004	10.0	10.0	2004	10.0	10.0
2005	10.0	10.0	2005	10.0	10.0
2006	10.0	10.0	2006	10.0	10.0
2007	10.0	10.0	2007	10.0	10.0
2008	10.0	10.0	2008	10.0	10.0
2009	10.0	10.0	2009	10.0	10.0
2010	10.0	10.0	2010	10.0	10.0
2011	10.0	10.0	2011	10.0	10.0
2012	10.0	10.0	2012	10.0	10.0
2013	10.0	10.0	2013	10.0	10.0
2014	10.0	10.0	2014	10.0	10.0
2015	10.0	10.0	2015	10.0	10.0
2016	10.0	10.0	2016	10.0	10.0
2017	10.0	10.0	2017	10.0	10.0
2018	10.0	10.0	2018	10.0	10.0
2019	10.0	10.0	2019	10.0	10.0
2020	10.0	10.0	2020	10.0	10.0
2021	10.0	10.0	2021	10.0	10.0
2022	10.0	10.0	2022	10.0	10.0
2023	10.0	10.0	2023	10.0	10.0
2024	10.0	10.0	2024	10.0	10.0
2025	10.0	10.0	2025	10.0	10.0
2026	10.0	10.0	2026	10.0	10.0
2027	10.0	10.0	2027	10.0	10.0
2028	10.0	10.0	2028	10.0	10.0
2029	10.0	10.0	2029	10.0	10.0
2030	10.0	10.0	2030	10.0	10.0
2031	10.0	10.0	2031	10.0	10.0
2032	10.0	10.0	2032	10.0	10.0
2033	10.0	10.0	2033	10.0	10.0
2034	10.0	10.0	2034	10.0	10.0
2035	10.0	10.0	2035	10.0	10.0
2036	10.0	10.0	2036	10.0	10.0
2037	10.0	10.0	2037	10.0	10.0
2038	10.0	10.0	2038	10.0	10.0
2039	10.0	10.0	2039	10.0	10.0
2040	10.0	10.0	2040	10.0	10.0
2041	10.0	10.0	2041	10.0	10.0
2042	10.0	10.0	2042	10.0	10.0
2043	10.0	10.0	2043	10.0	10.0
2044	10.0	10.0	2044	10.0	10.0
2045	10.0	10.0	2045	10.0	10.0
2046	10.0	10.0	2046	10.0	10.0
2047	10.0	10.0	2047	10.0	10.0
2048	10.0	10.0	2048	10.0	10.0
2049	10.0	10.0	2049	10.0	10.0
2050	10.0	10.0	2050	10.0	10.0
2051	10.0	10.0	2051	10.0	10.0
2052	10.0	10.0	2052	10.0	10.0
2053	10.0	10.0	2053	10.0	10.0
2054	10.0	10.0	2054	10.0	10.0
2055					

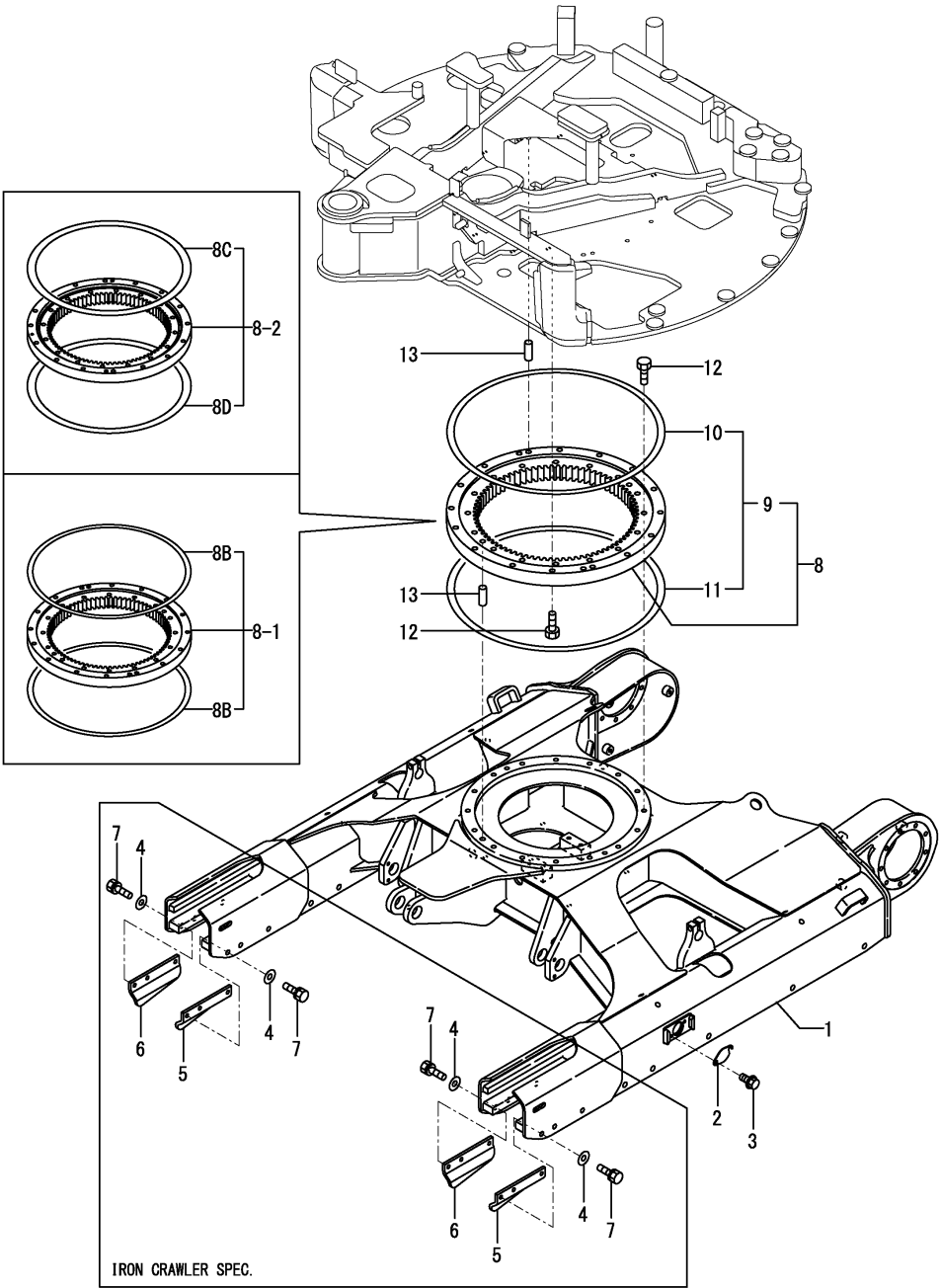
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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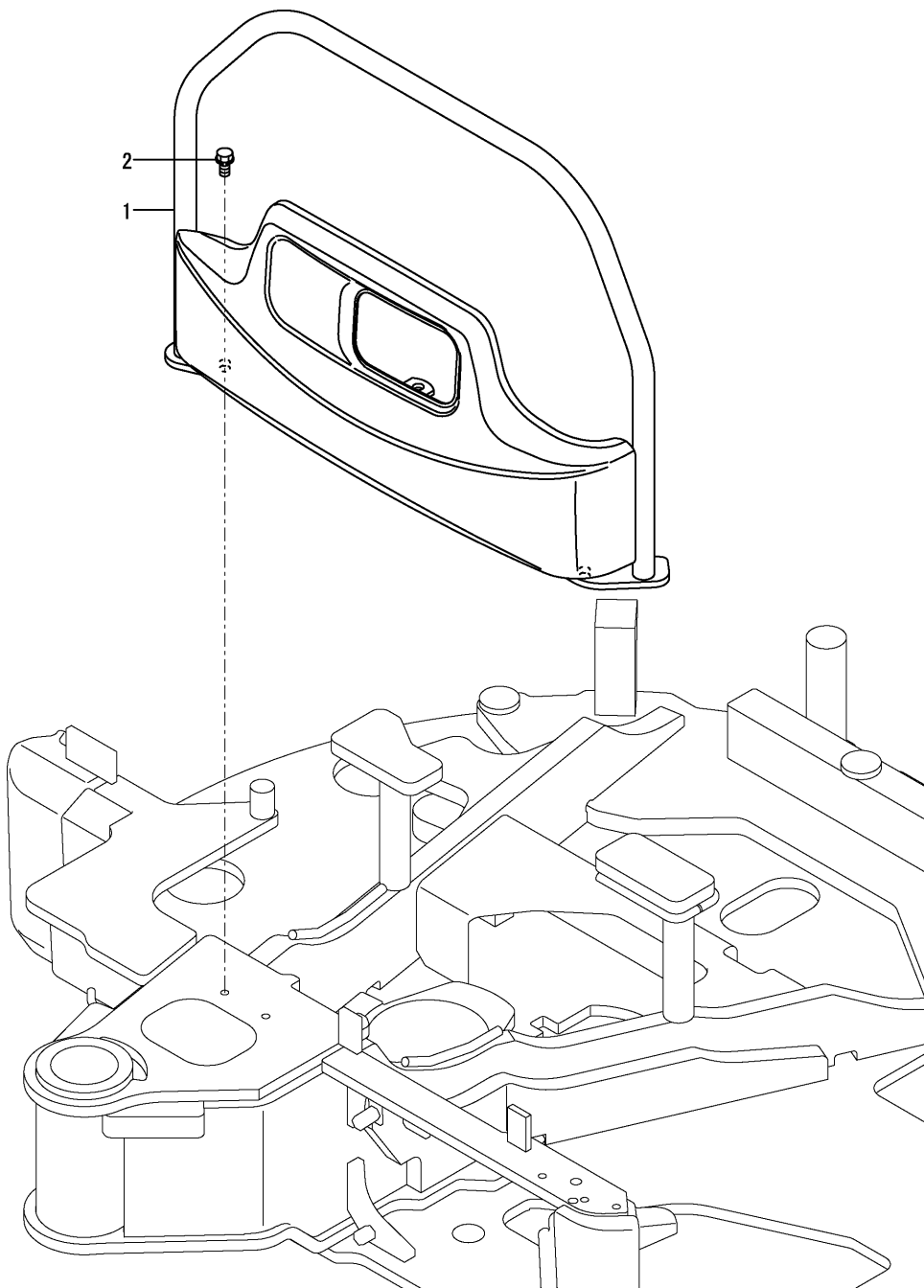
Fig.35. TRACK FRAME & TURNING BEARING

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

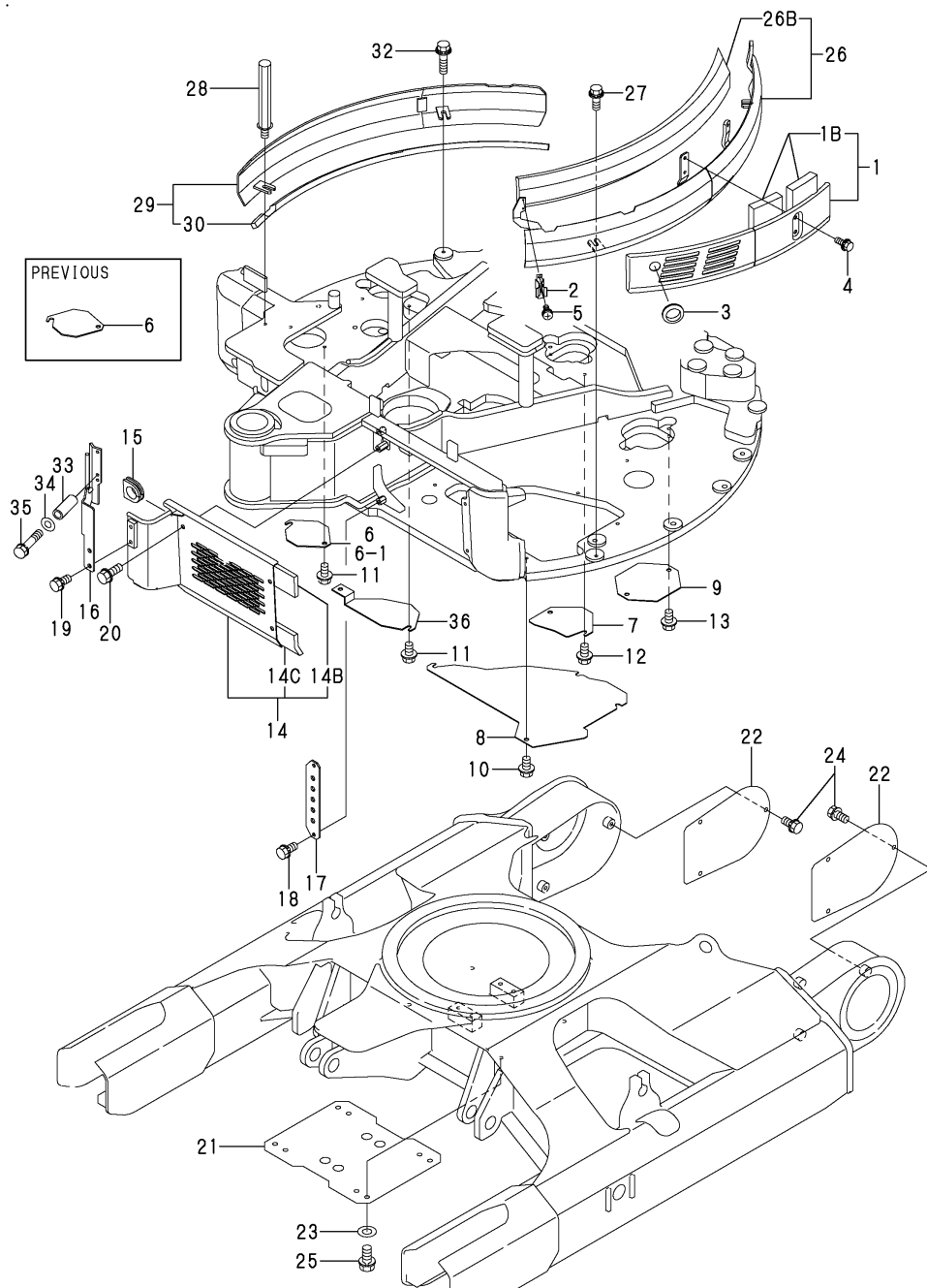


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-50104-2	FRAME ASSY, LOWER	1							
2	1	172458-50480-2	COVER, FRAME	2							
3	1	26106-100122	BOLT, M10X 12 PLATED	4							
4	1	172730-05250	WASHER, 12	12							
5	1	172458-50800-2	PLATE, GUARD L	2							
6	1	172458-50810-2	PLATE, GUARD R	2							
7	1	26013-120252	BOLT, M12X 25	12							
8	1	172458-57600-2	BEARING, TURNING	1							
8-1	1	172A77-57600	BEARING ASSY,TURNING	1							N
(A=M54968)											
8-2	1	172458-57601-2	BEARING,SWING	1							R
(A=M56300)											
8B	2	172A77-57620	SEAL, SWING	2							W
(A=M54968)											
8B-1	2	172A77-57620	SEAL, SWING	2							Z
(A=M56300)											
8C	2	172B03-57630	SEAL, A	1							W
(A=M56300)											
8D	2	172B03-57640	SEAL, B	1							W
(A=M56300)											
9	2	172142-57610	SEAL SET	1							Z
(A=M54968)											
10	3	172122-57630	SEAL, SWING UPPER	1							Z
(A=M54968)											
11	3	172122-57640	SEAL, SWING LOWER	1							Z
(A=M54968)											
12	1	172A46-57610	BOLT, 14X65	32							
13	1	172122-57620	PIN, PARALLEL 13X36	4							



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172A47-61610-2	COVER ASSY	1							
1-1	1	172A47-61610-Y	COVER ASSY	1							S
		(A=M56001)									
2	1	26013-120302	BOLT, M12X 30	2							

Fig.38. COVER(FRAME)



(D)=

$$(E)=$$

(F)=

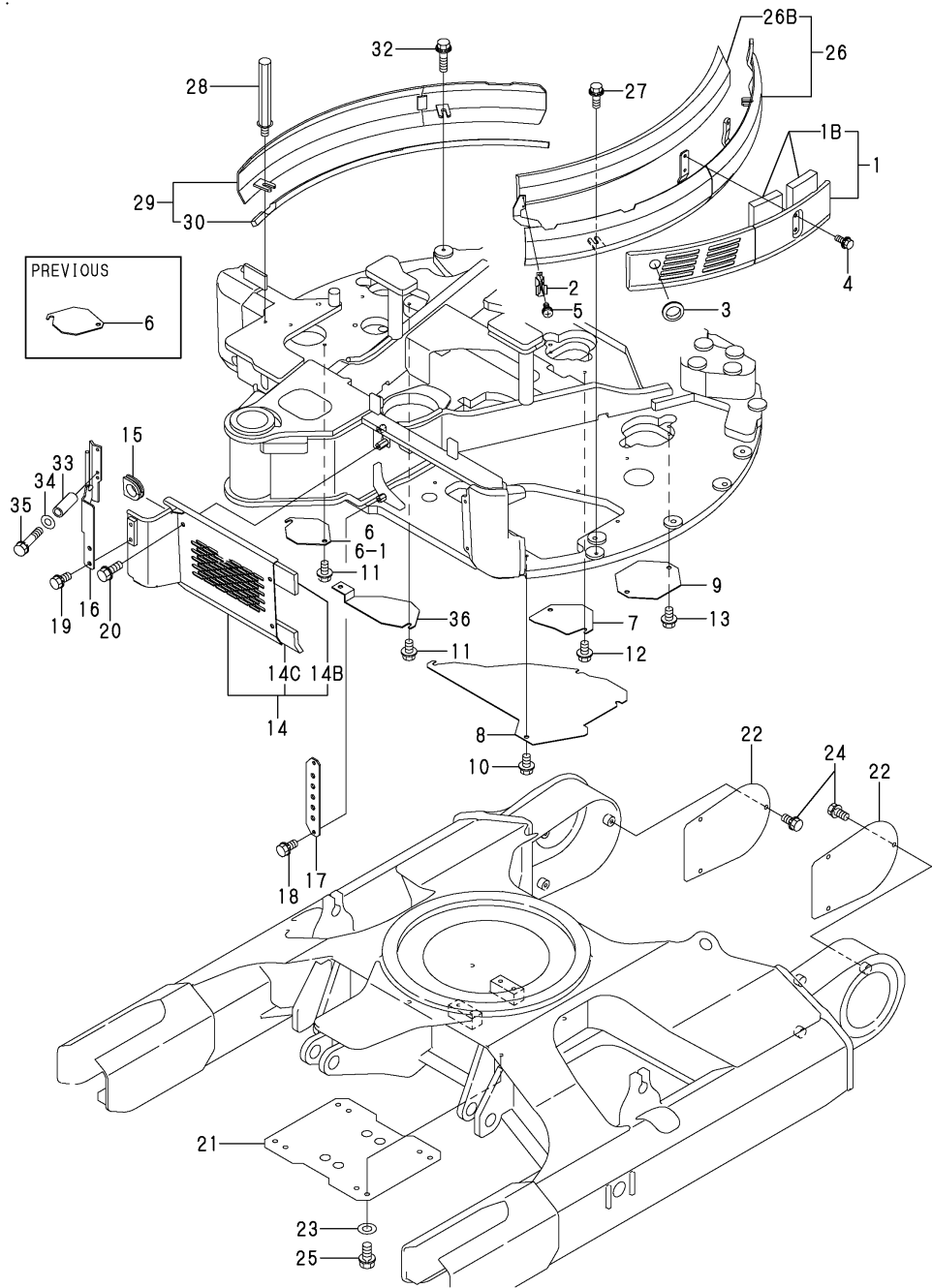
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A47-61220-2	COVER ASSY, MULTI	1							
1-1	1	172A77-61220-2	COVER ASSY, MULTI	1							N
		(A=FROM 1ST)									
1-2	1	172A77-61240-1	COVER ASSY, MULTI	1							N
		(A=MZZZZZ)									
1-3	1	172A77-61240-Y	COVER ASSY, MULTI	1							S
		(A=M56001)									
1B	2	172A77-61230	SPONGE	2							W
		(A=FROM 1ST)									
1B-1	2	172A77-61250	SPONGE	1							N
		(A=MZZZZZ)									
2	1	198220-61480	HOLDER, ROD	1							
3	1	172137-66230	GROMMET	1							
4	1	26014-080162	BOLT, M8X 16	2							
5	1	26023-050102	SCREW, M5X10	2							
6	1	172A47-61420	COVER, OIL SUMP	2							
6-1	1	172A47-61420	COVER, OIL SUMP	1							K
		(A=FROM 1ST)									
7	1	172A46-61500	COVER, OIL SUMP	1							
8	1	172A46-61510	COVER, VALVE STAND	1							
9	1	172A46-61580	COVER, PUMP	1							
10	1	26106-100162	BOLT, M10X 16 PLATED	4							
11	1	26106-100162	BOLT, M10X 16 PLATED	4							
12	1	26106-100162	BOLT, M10X 16 PLATED	2							
13	1	26106-100162	BOLT, M10X 16 PLATED	2							
14	1	172A46-61181	COVER	1							
14-1	1	172A77-61180	COVER	1							N
		(A=FROM 1ST)									
14-2	1	172A77-61270	COVER ASSY	1							N
		(A=M54397)									
14B	2	172A77-61190	SPONGE	1							W
		(A=FROM 1ST)									
14B-1	2	172A77-61280	SPONGE	1							N
		(A=M54397)									
14C	2	172A77-61200	SPONGE	1							W
		(A=FROM 1ST)									
14C-1	2	172A77-61290	SPONGE	1							N
		(A=M54397)									
15	1	172165-62800	GROMMET	1							
16	1	172A46-76730	GUIDE ASSY, HOSE	1							
17	1	172A46-79210	PLATE ASSY, HOSE	1							
18	1	26013-100202	BOLT, M10X 20	2							
19	1	26013-100202	BOLT, M10X 20	2							
20	1	26014-100162	BOLT, M10X 16	3							
21	1	172141-50762-3	COVER	1							
22	1	172A46-61460	COVER, TRAVEL	2							
23	1	22137-120000	WASHER, 12	4							
24	1	26013-100202	BOLT, M10X 20	6							
25	1	26013-120252	BOLT, M12X 25	4							
26	1	172A46-61010	GUARD, FRAME	1							
26-1	1	172A77-61010	GUARD ASSY, FRAME	1							N

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

NO
++ CONTINUE ++

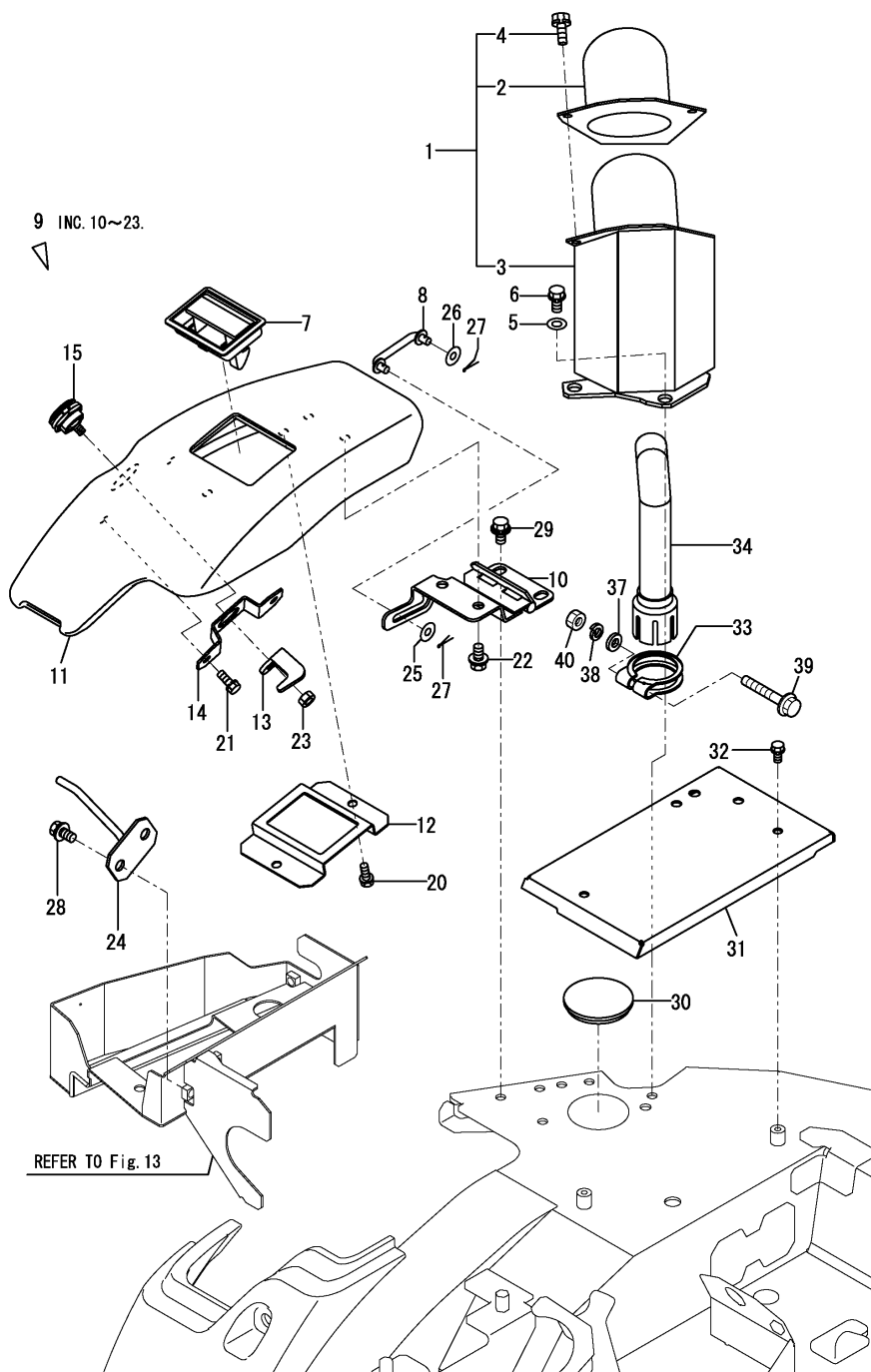
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OCS10-M52900 COVER
Fig.38. COVER(FRAME)



										OCS10-M52900		Fig.38	
										(A)=VIO30-5B P(KR)		(D)=	
										(B)=		(E)=	
										(C)=		(F)=	
No.	Lev.	Parts No.	Description	Q'ty		I		R					
				(A)	(B)	(C)	(D)	(E)	(F)				
26B	(A=FROM 1ST) 2	172A77-61020	SPONGE	1						W			
	(A=FROM 1ST)												
27	1	26014-100252	BOLT, M10X 25	2									
28	1	172A46-61050	BOLT ASSY	1									
29	1	172A46-61100	GUARD, FRAME	1									
30	2	172458-54750	SEAL	1									
32	1	26014-100252	BOLT, M10X 25	1									
33	1	172527-13320	COLLAR	1									
34	1	22137-080000	WASHER, 8	1									
35	1	26013-080452	BOLT, M8X 45	1									
36	1	172A46-61470	COVER, DRAIN	1						W			
	(A=FROM 1ST)												

Fig.39. COVER(BONNET)

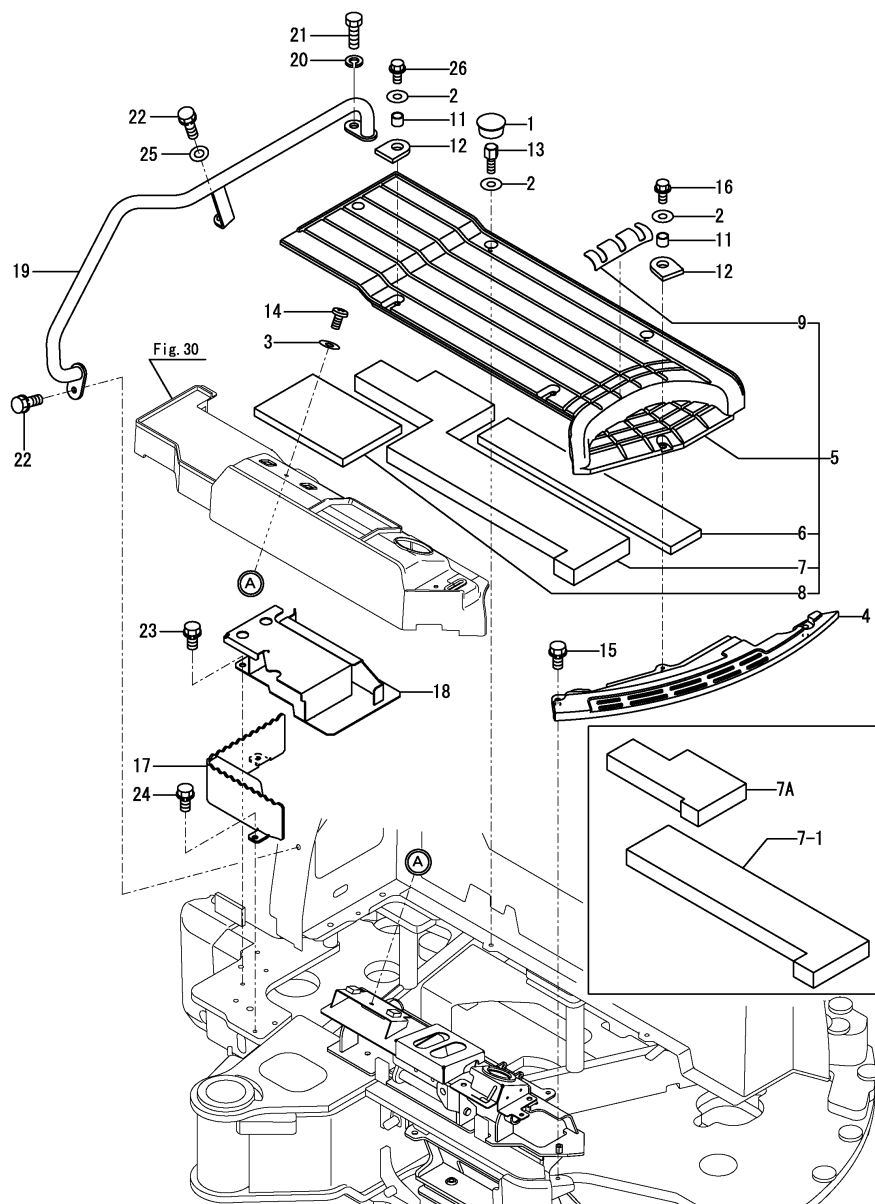


(D)=

$$(E)=$$

(F)=

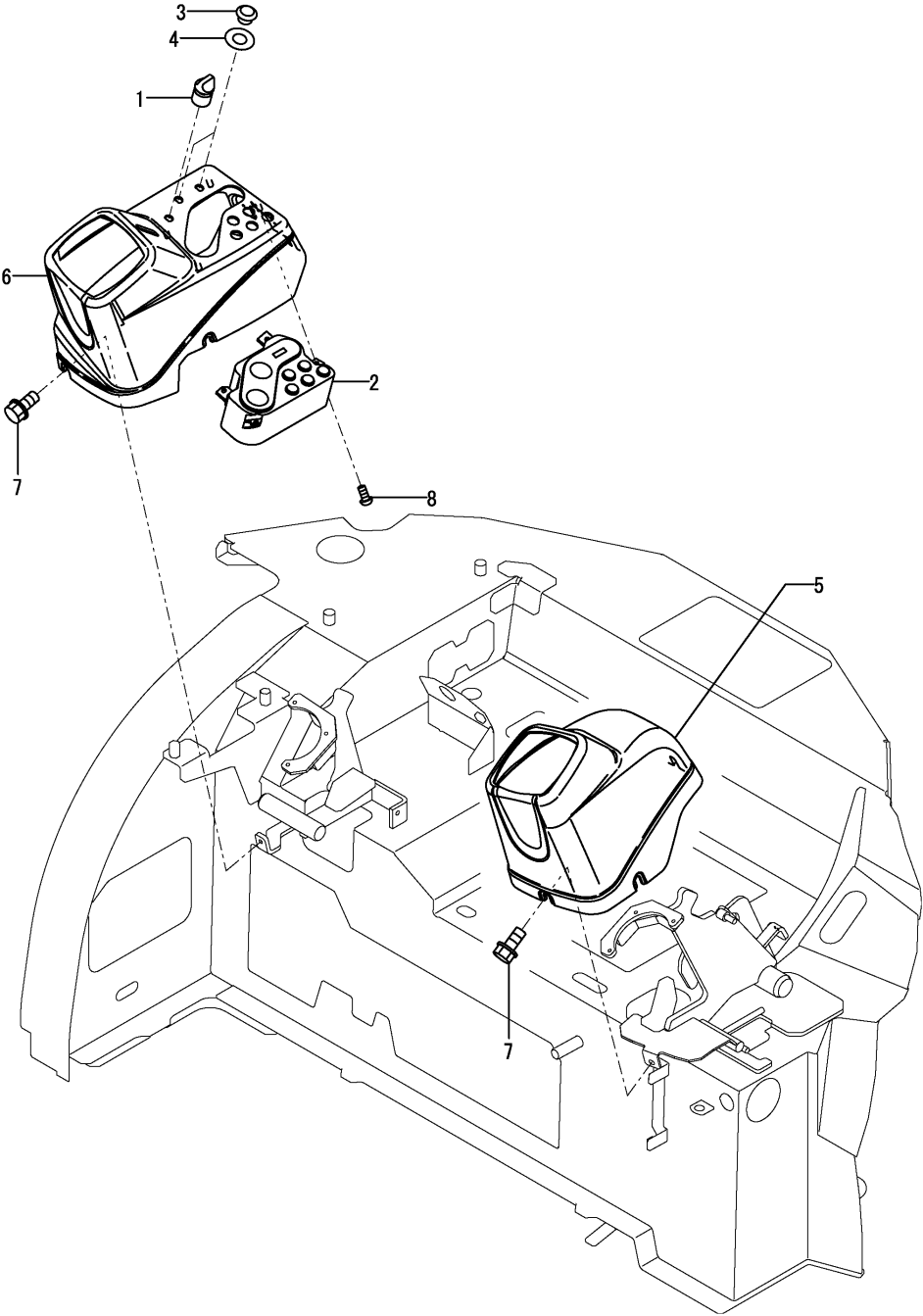
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-61431	COVER ASSY, TAIL	1							
2	2	172A46-61381	COVER ASSY, TAIL	1							
3	2	172A46-61451	COVER ASSY, TAIL	1							
4	2	26013-080162	BOLT, M8X 16	2							
5	1	22137-100000	WASHER, 10	2							
6	1	26013-100202	BOLT, M10X 20	2							
7	1	172187-61421	HANDLE, LOCK	1							
8	1	172A46-61562	ROD ASSY, STOPPER	1							
9	1	172A46-61850	COVER	1							
9-1	1	172A77-61810	COVER ASSY	1							S
		(A=M56001)									
10	2	172A46-61531	HINGE, COVER	1							
11	2	172A46-61860	COVER	1							
11-1	2	172A77-61820	COVER	1							S
		(A=M56001)									
12	2	172A46-61940	STAY, CATCH	1							
13	2	172A46-61951	STAY, KEY	1							
14	2	172A46-61960	PLATE, LOCK	1							
15	2	172164-66170	KEY ASSY, CYLINDER	1							
20	2	26013-080122	BOLT, M8X 12	2							
21	2	26013-080122	BOLT, M8X 12	2							
22	2	26014-100162	BOLT, M10X 16	2							
23	2	26347-100002	NUT, M10	1							
24	1	172A46-61970	BAR ASSY, CATCH	1							
25	1	1A1380-62160	WASHER	1							
26	1	22137-080000	WASHER, 8	1							
27	1	22417-200200	PIN, COTTER 2.0X20	2							
28	1	26014-100202	BOLT, M10X 20	2							
29	1	26014-100252	BOLT, M10X 25	2							
30	1	172730-61890	CAP, ENGINE COVER	1							
31	1	172A46-64020	COVER, SEAT MOUNT	1							
32	1	26013-080162	BOLT, M8X 16	3							
33	1	172A77-11310	CLAMP	1							
34	1	172A77-11350	PIPE ASSY, EXHAUST	1							
37	1	22117-100000	WASHER, 10	1							
38	1	22217-100000	WASHER, SPRING 10	1							
39	1	26106-100652	BOLT, M10X 65 PLATED	1							
40	1	26706-100002	NUT, M10	1							



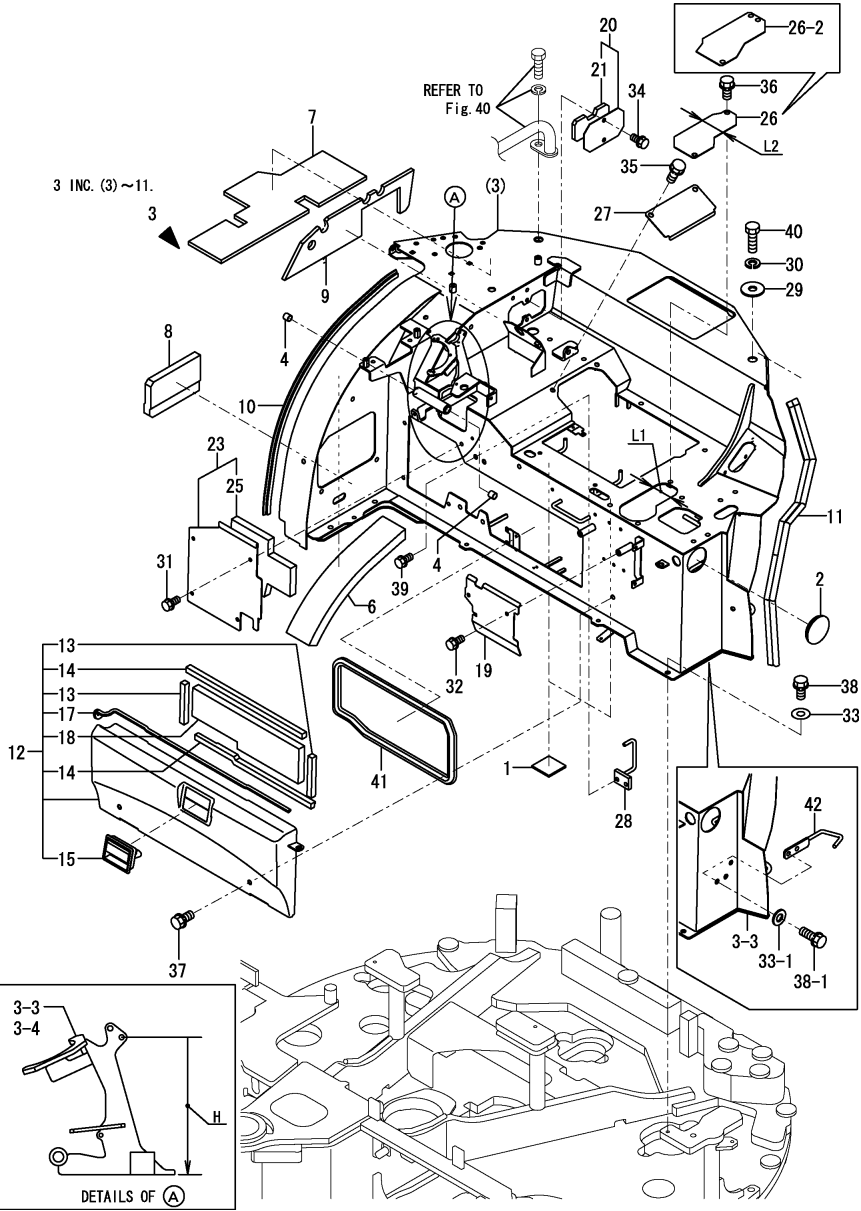
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C) (D) (E) (F)				I	R
1	1	172A47-62150	CAP, CLIP	3							
2	1	1A1380-62160	WASHER, BELT COVER	6							
3	1	172A458-62430	WASHER	2							
4	1	172A47-62520	STEP, NON SLIP	1							
5	1	172A47-62550	STEP ASSY	1							
6	2	172A47-62261	SPONGE	1							
7	2	172A47-62450	SPONGE	1							
7-1	2	172A47-62451	SPONGE	1						S	1
		(A=M53549)									
7A	2	172A47-62470	SPONGE	1							W
		(A=M53549)									
8	2	172A47-62460	SPONGE	1							
9	2	172A47-62530	SHEET	1							
11	1	172A47-62570	COLLAR	3							
12	1	172A47-62580	PAD, ABSORBER	3							
13	1	172A47-62660	BOLT	3							
14	1	172137-69850	SCREW	2							
15	1	26013-100252	BOLT, SPRING M10X 25	2							
16	1	26106-080202	BOLT, M8X 20 PLATED	3							
16-1	1	26106-080202	BOLT, M8X 20 PLATED	1						K	
		(A=*2010.03.)									
17	1	172A46-61590	STEP ASSY	1							
18	1	172A46-62100	STEP ASSY	1							
19	1	172A46-64852	HANDRAIL ASSY	1							
20	1	22217-160000	WASHER, SPRING 16	1							
21	1	26116-160352	BOLT, M16X 35 PLATED	1							
22	1	26013-100202	BOLT, SPRING M10X 20	2							
23	1	26013-100202	BOLT, SPRING M10X 20	2							
24	1	26013-100202	BOLT, SPRING M10X 20	2							
25	1	22137-100000	WASHER, 10	1							
26	1	26106-080202	BOLT, M8X 20 PLATED	2							
26-1	1	26106-080252	BOLT, M8X 25 PLATED	2						N	
		(A=*2010.03.)									

Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.NO.7A.

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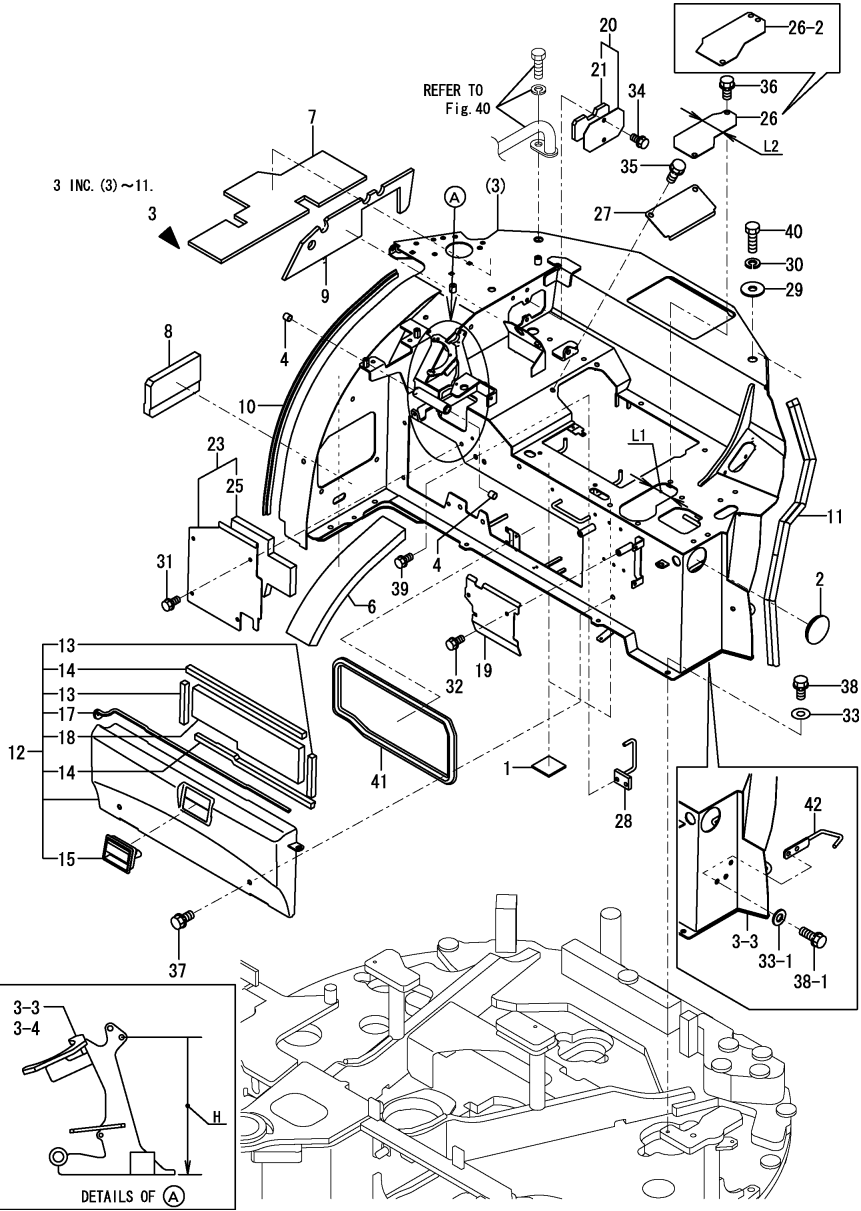


OCS10-M52900 Fig.41												
(A)=VIO30-5B P(KR) (D)=												
(B)= (E)=												
(C)= (F)=												
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172187-17280	SWITCH ASSY, LIGHT	1								
1-1	1	172187-17281	SWITCH ASSY, LAMP	1							R	
(A=*2024.10.)												
1-2	1	172187-17282	SWITCH ASSY, LAMP	1							N	
(A=*2024.12.)												
2	1	172A77-17250	MONITOR ASSY	1								
2-1	1	172A77-17251	MONITOR ASSY	1							N	
(A=*2024.10.)												
3	1	172187-17560	CAP, STEERING WHEEL	2								
4	1	172187-17570	GASKET	2								
5	1	172A47-63110	PANEL, INSTRUMENT L	1								
6	1	172A47-63121	PANEL, INSTRUMENT R	1								
7	1	172519-63240	BOLT, M8X16	6								
8	1	22857-500121	SCREW 5X12	4								



Remarks
(1)L1=REF.NO.3-1 64MM, NO.3-2 76MM.
(2)L2=REF.NO.26 72MM, NO.26-1 88MM.
(3)REF.NO.3-3 H=196MM,
REF.NO.3-4 H=198MM.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172446-14250	PLATE, RUBBER	2							
2	1	172730-61890	CAP, ENGINE COVER	1							
3	1	172A46-64101	MOUNT ASSY, SEAT	1							
3-1	1	172A77-64100	MOUNT ASSY, SEAT	1							N
(A=FROM 1ST)											
3-2	1	172A77-64101	MOUNT ASSY, SEAT	1							S 1
(A=M/#53233)											
3-3	1	172A77-64102	MOUNT ASSY, SEAT	1							S
(A=M/#XXXXX)											
3-4	1	172A77-64103	MOUNT ASSY, SEAT	1							S 3
(A=M53389)											
3-5	1	172A77-64104	MOUNT ASSY, SEAT	1							N
(A=MZZZZZ)											
4	2	172141-41360	BUSH	2							
6	2	172A47-64900	SPONGE	1							
7	2	172A46-64940	WOOL, GLASS	1							
8	2	172A47-64940	SPONGE	1							
9	2	172A46-64990	WOOL, GLASS	1							
10	2	172444-65610	SEAL, BONNET	1							
11	2	172164-65710	RUBBER, SEAL	1							
12	1	172A47-64501	COVER ASSY, MANUAL	1							
13	2	172446-13580	SEAL, RADIATOR	2							
14	2	172455-18860	SEAL	2							
15	2	172187-61421	HANDLE, LOCK	1							
17	2	172A47-64550	SEAL	1							
18	2	172A47-64950	SPONGE	1							
19	1	172A47-64580	COVER, ELECTRIC	1							
20	1	172A46-64820	COVER	1							
21	2	172A46-64830	WOOL, GLASS	1							
23	1	172A47-64871	COVER, SEAT MOUNT	1							
25	2	172A47-64960	SPONGE	1							
26	1	172A46-64951	COVER, SEAT MOUNT	1							
26-1	1	172A46-64952	COVER, SEAT MOUNT	1							S 2
(A=M/#53233)											
26-2	1	172A46-64953	COVER, SEAT MOUNT	1							S
(A=MZZZZZ)											
27	1	172A46-64970	COVER, SEAT MOUNT	1							
28	1	172A45-76710	CLAMP ASSY, HOSE	1							
29	1	22157-140000	WASHER, 14	1							
30	1	22217-160000	WASHER, SPRING 16	1							
31	1	26013-080162	BOLT, M8X 16	4							
32	1	26013-080162	BOLT, M8X 16	2							
33	1	22137-100000	WASHER, 10	1							
33-1	1	22137-100000	WASHER, 10	4							K
(A=M/#XXXXX)											
34	1	26013-080162	BOLT, M8X 16	2							
35	1	26013-100162	BOLT, M10X 16	2							
36	1	26013-100162	BOLT, M10X 16	2							
37	1	26013-100202	BOLT, M10X 20	2							
38	1	26013-100252	BOLT, M10X 25	4							
38-1	1	26013-100252	BOLT, M10X 25	6							K



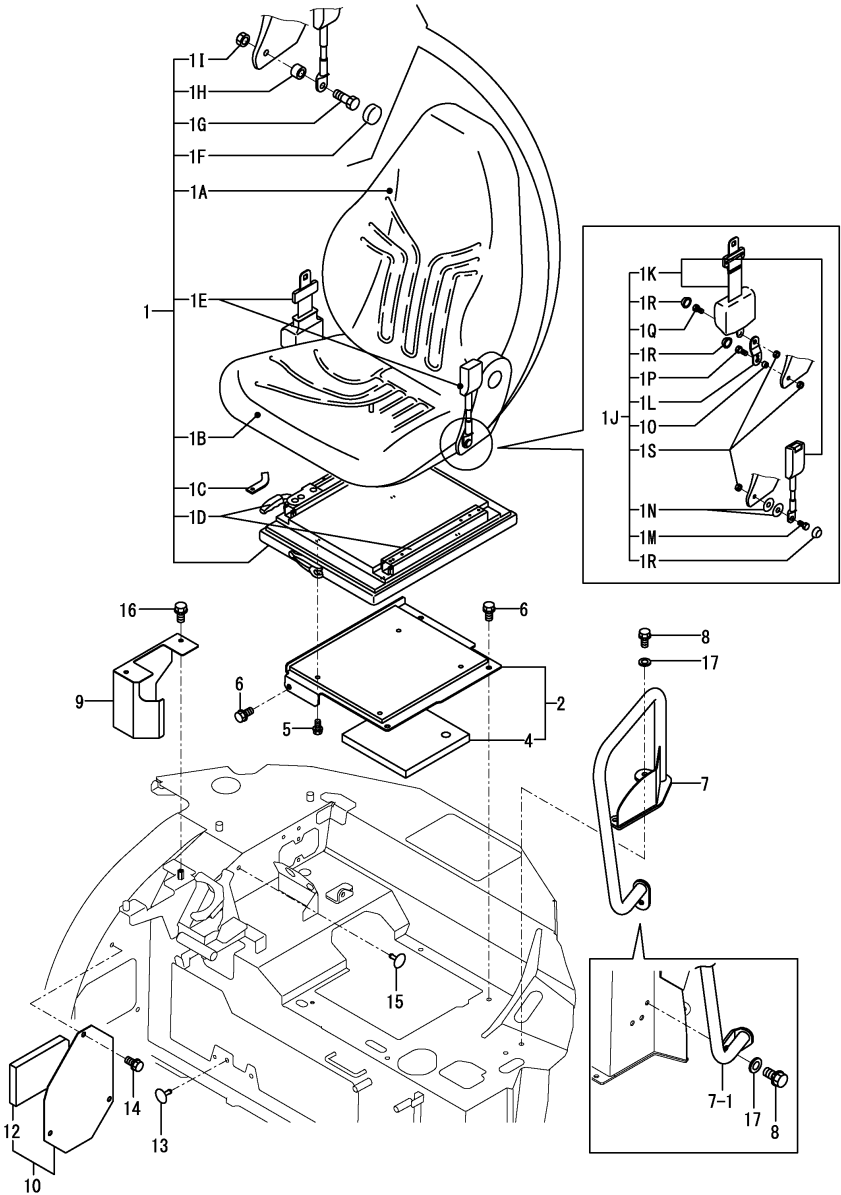
				(A)=VIO30-5B P(KR)					(D)=			
				(B)=					(E)=			
				(C)=					(F)=			
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
(A=M/#XXXXXX)												
39	1	26013-100202	BOLT, M10X 20	2								
40	1	26116-160252	BOLT, M16X 25 PLATED	2								
41	1	172162-65650	SEAL	1								
42	1	172A77-78100	GUIDE ASSY, HOSE	1								
(A=M/#XXXXXX)												

Remarks
(1)L1=REF.NO.3-1 64MM, NO.3-2 76MM.
(2)L2=REF.NO.26 72MM, NO.26-1 88MM.
(3)REF.NO.3-3 H=196MM,
REF.NO.3-4 H=198MM.

Fig.43. SEAT & HANDRAIL(TO 2012.01)

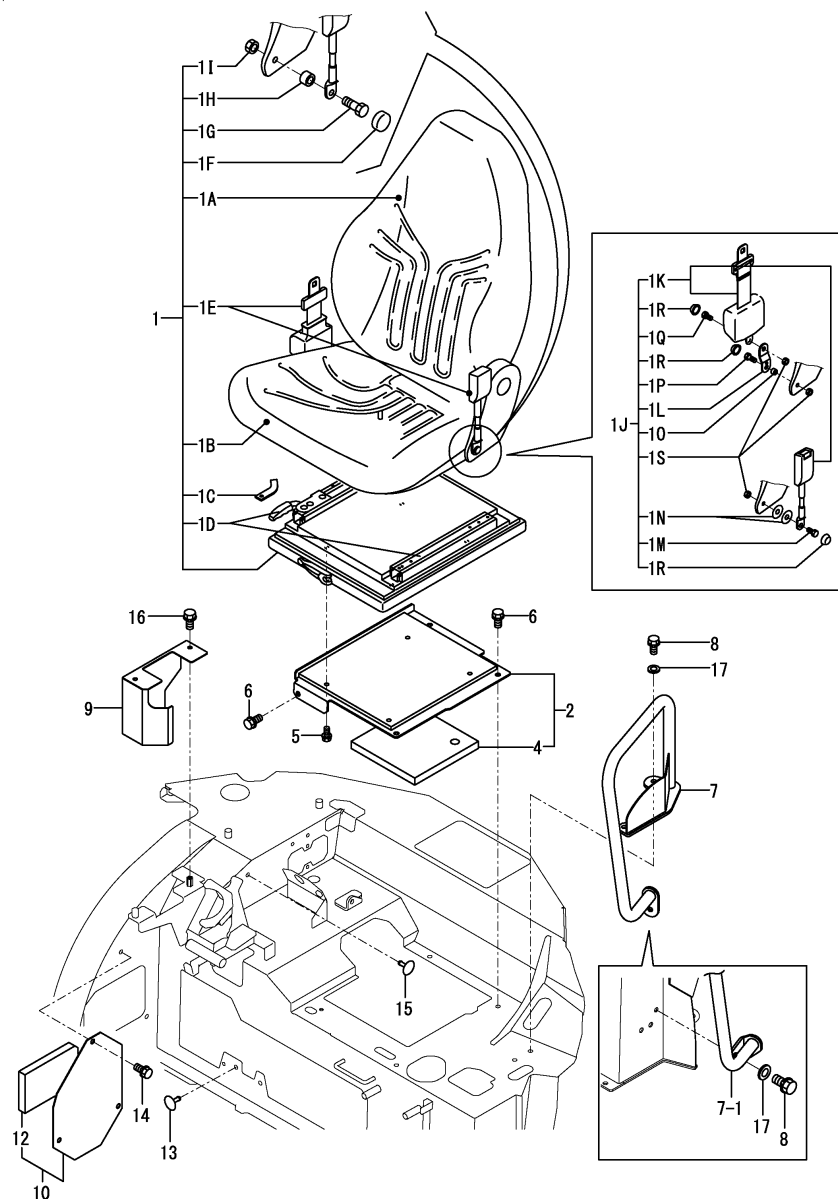
(A)=VIO30-5B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172467-64101	SEAT ASSY, OPERATOR	1						Z	1
(A=*2012.02.)											
1A	2	172467-64110	CUSHION, BACK REST	1							
1B	2	172467-64120	CUSHION, SEAT	1							
1C	2	172467-64130	STOPPER	1							
1D	2	172467-64140	RAIL SET	1							
1E	2	172467-64150	BELT, SEAT	1						Z	2
(A=*2022.02.)											
1F	2	172467-64160	COVER, CAP	2						Z	
(A=*2022.02.)											
1G	2	172467-64170	BOLT	2						Z	
(A=*2022.02.)											
1H	2	172467-64180	TUBE	2						Z	
(A=*2022.02.)											
1I	2	172467-64190	NUT	2						Z	
(A=*2022.02.)											
1J	2	172A69-08100	SEATBELT KIT	1						W	
(A=*2022.02.)											
1K	3	172467-64020	SEATBELT	1							
1L	3	172467-64030	BRACKET	1							
1M	3	172467-64040	BOLT, M8X25	1							
1N	3	172467-64050	SPACER, 2.0	2							
1O	3	172467-64060	SPACER, 7.0	1							
1P	3	172467-64070	BOLT, M8X30	1							
1Q	3	172467-64080	BOLT, M8X20	1							
1R	3	172467-64160	COVER, CAP	3							
1S	3	172467-64190	NUT	3							
2	1	172A46-64810	PLATE ASSY, SEAT GRM	1							
2-1	1	172A46-64811-1	PLATE ASSY, SEAT GRM	1							N
(A=M/#53233)											
4	2	172A46-64930	PAD, SEAT MOUNT D	1							
5	1	26013-080162	BOLT, M8X 16	4							
6	1	26013-100202	BOLT, M10X 20	4							
7	1	172A47-64701	HOLD ASSY, HAND	1							
7-1	1	172A47-64702	HOLD ASSY, HAND	1							S
(A=M53471)											
8	1	26013-100202	BOLT, M10X 20	2							
8-1	1	26013-100252	BOLT, M10X 25	3							N
(A=*2015.07.)											
9	1	172A47-61460-1	COVER, BLADE	1							
10	1	172A47-64880	COVER, SEAT MOUNT	1							
12	2	172A47-64940	PAD, SEAT MOUNT E	1							
13	1	172444-68650	CLIP, TREE	1							
13-1	1	172122-17190	CLIP, TREE	1							R
(A=*2010.10.)											
14	1	26013-100202	BOLT, M10X 20	3							
15	1	172444-68650	CLIP, TREE	4							
15-1	1	172122-17190	CLIP, TREE	4							R
(A=*2010.10.)											
16	1	26013-080162	BOLT, M8X 16	2							
17	1	194145-04810	WASHER, 10	3							W

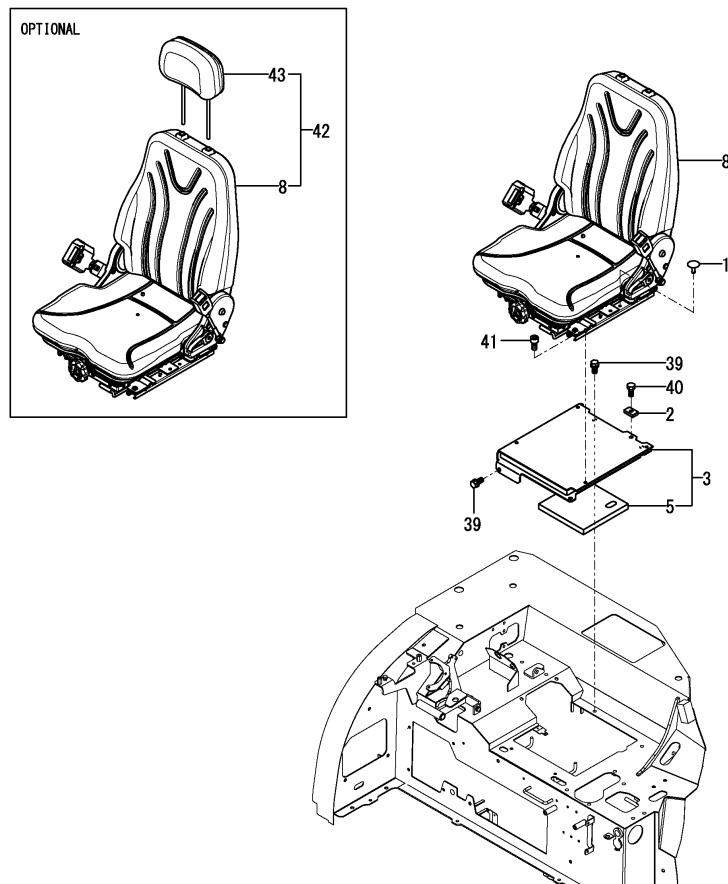
Remarks
(1)Please refer to Fig.88(43A) for after 2012.02.
(2)Copes in No.1J.



(2)Copes in No.1J.

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
(A=*2015.07.)										

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172122-17190	CLIP, TREE	1							
2	1	172A21-64150	PLATE	1							
3	1	172A77-64610	PLATE ASSY	1							
5	2	172A46-64930	SPONGE	1							
8	1	172A89-64730	SEAT, OPERATOR	1							3
39	1	26013-100202	BOLT, SPRING M10X 20	4							
40	1	26116-100202	BOLT, M10X 20 PLATED	1							
41	1	26450-080162	BOLT, M8X 16	4							
42	1	172A69-64800	SEAT ASSY	1							1
43	2	172A89-64720	HEADREST	1							2

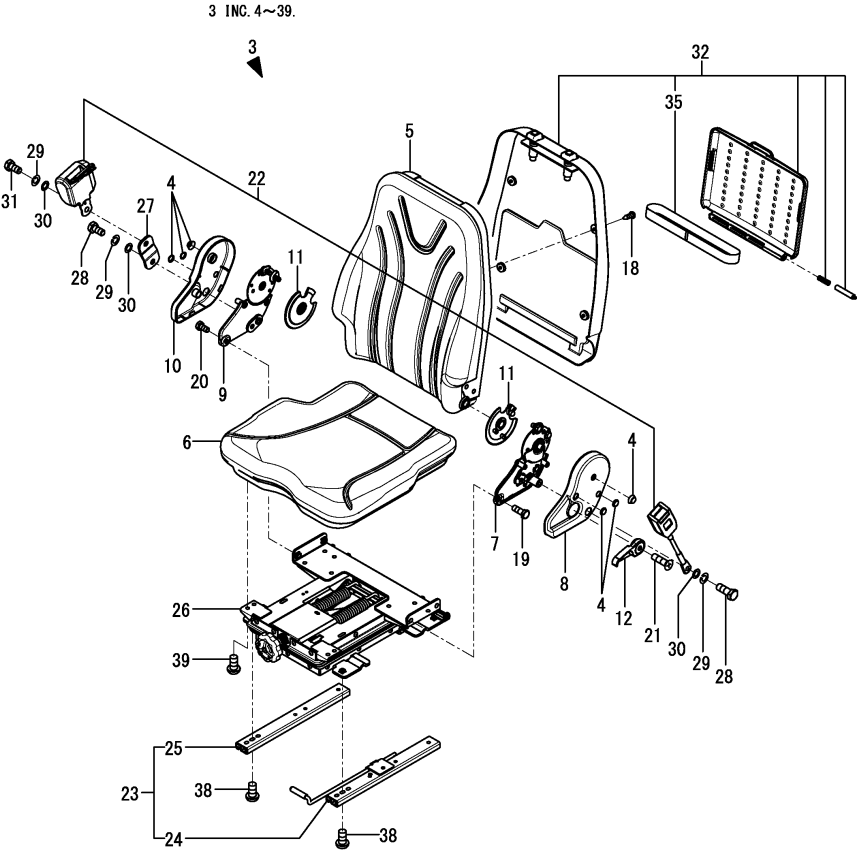
(3) Inner parts are shown in Fig.91(43B).

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.91. (43B)SEAT(INNER PARTS)(U SPEC.)

(A)=VIO27-5B P(KR)
(B)=
(C)=

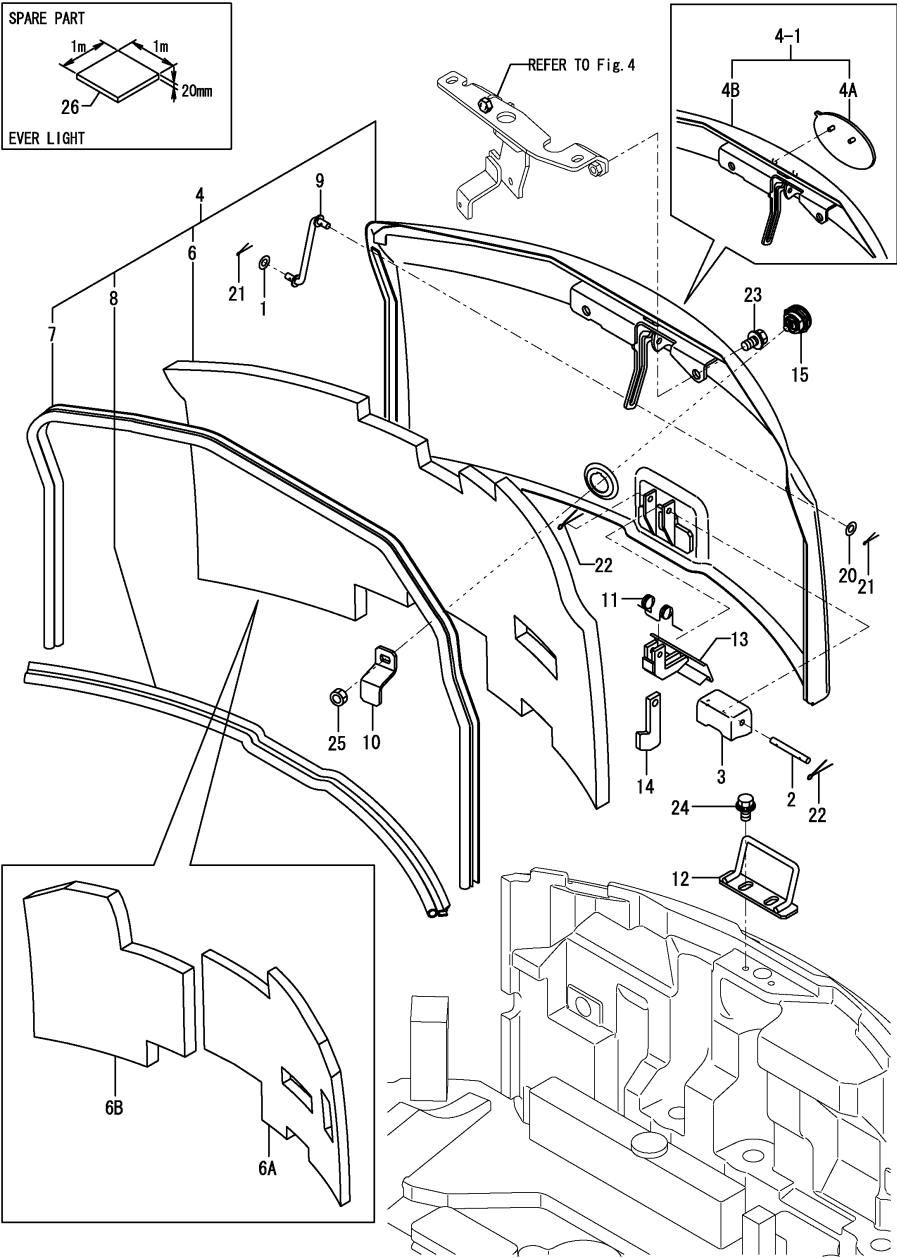
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	2	172A89-64730	SEAT ASSY, OPERATOR	1							
4	3	172A89-64760	CAP ASSY	1							
5	3	172A89-64770	SEAT, OPERATOR	1							
6	3	172A89-64780	SEAT, CUSHION	1							
7	3	172A89-64820	HINGE ASSY	1							
8	3	172A89-64830	COVER	1							
9	3	172A89-64840	HINGE ASSY	1							
10	3	172A89-64850	COVER	1							
11	3	172A89-64870	COVER	2							
12	3	172A89-64880	LEVER	1							
18	3	22859-500160	SCREW, 5X16	4							
19	3	26106-100162	BOLT, M10X 16 PLATED	4							
20	3	26106-100162	BOLT, M10X 16 PLATED	4							
21	3	26559-050202	SCREW, M5X20	1							
22	2	172A89-64740	SEAT BELT ASSY	1							
23	2	172A89-64750	RAIL ASSY	1							
24	3	172A89-64800	RAIL ASSY, TL	1							
25	3	172A89-64810	RAIL ASSY, TR	1							
26	2	172A89-64790	SEAT, SPRING	1							
27	2	172A89-64860	BRACKET ASSY	1							
28	2	172A89-64890	BOLT	2							
29	2	172A89-64900	SPRING	3							
30	2	172A89-64910	WASHER	3							
31	2	172A89-64920	BOLT	1							
32	2	172A89-64980	BOX ASSY,MANUAL	1							
35	3	172A89-64950	BAND	1							
38	2	26106-080162	BOLT, M8X 16 PLATED	4							
39	2	26106-080162	BOLT, M8X 16 PLATED	4							

Remarks
(1)This attached an optional headrest to a standard seat.
(2)Optional parts.

Fig.44. BONNET(1)



Remarks
(1)Interchangeable by simultaneous replacement with Ref.No.6A,6B.

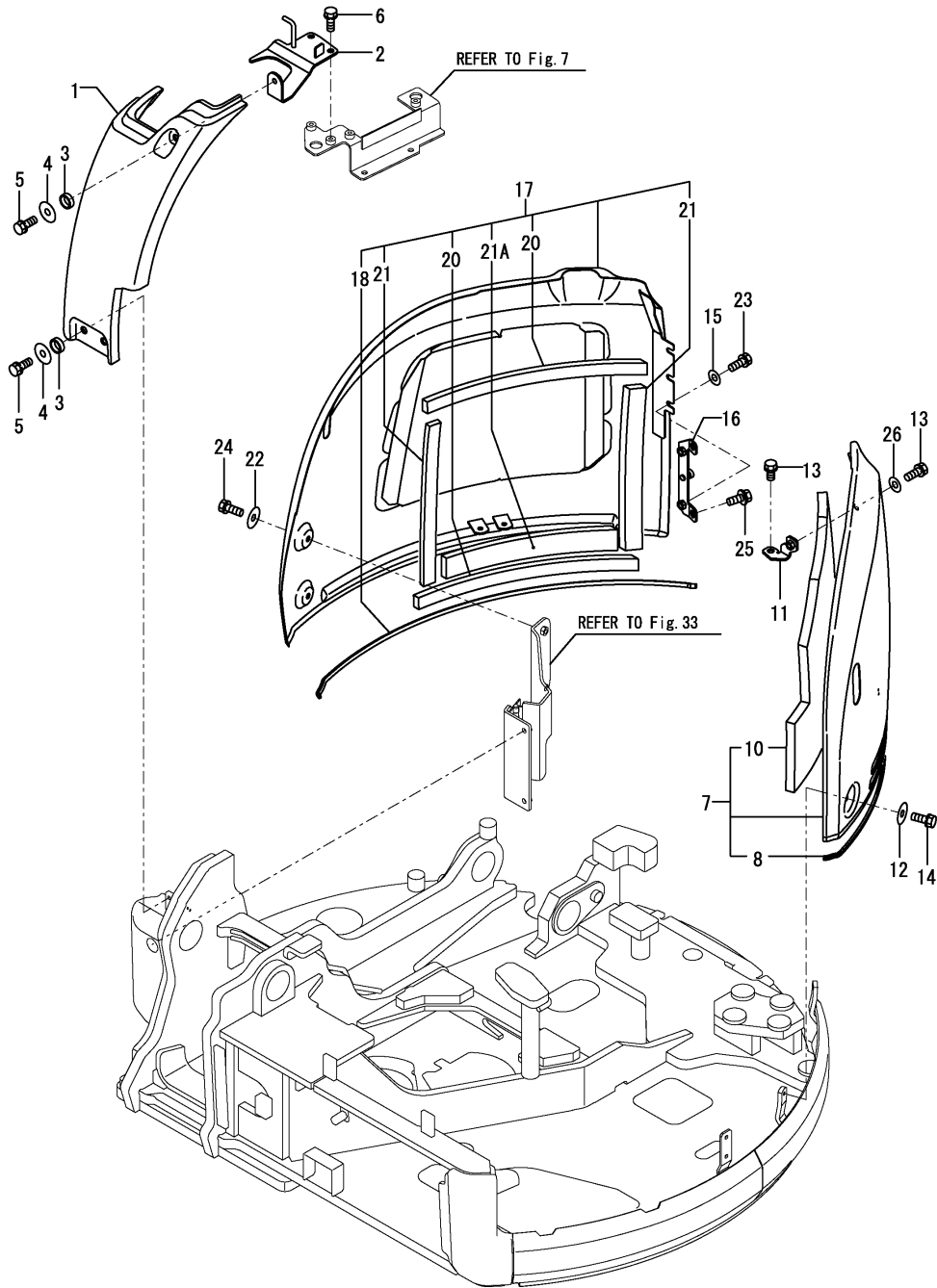
(A)=VIO30-5B P(KR)
(B)=
(C)=
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A1380-62160	WASHER	1							
2	1	172458-65050	SHAFT	1							
3	1	172458-65060	COVER, LOCK	1							
4	1	172A77-65100-2	BONNET ASSY	1							
4-1	1	172A77-65010	BONNET KIT,A EMB	1							S
(A=M56001)											
4A	2	172A77-03110	EMBLEM ASSY	1							W
(A=M56001)											
4B	2	172A77-65140	BONNET ASSY,A	1							W
(A=M56001)											
4B-1	2	172A77-65130	BONNET ASSY,A	1							N
(A=M56001)											
6	3	172A46-65170	SPONGE	1							
6-1	3	172A46-65171	SPONGE	1							N
(A=MZZZZZ)											
6-2	3	172A46-65171	SPONGE	1							Z
(A=M56001)											
6A	3	172A77-65170	SPONGE	1							W 1
(A=M56001)											
6B	3	172A77-65180	SPONGE	1							W 1
(A=M56001)											
7	3	172A46-65180	RUBBER, SEAL	1							
8	3	172989-68640	RUBBER, SEAL	1							
9	1	172444-65190	ROD ASSY, STOPPER	1							
10	1	172458-65271	PLATE, LOCK	1							
11	1	172734-65270	SPRING, CATCH	1							
12	1	172A77-65320	CATCH ASSY, LOCK	1							
13	1	172124-65450	LEVER ASSY, LOCK	1							
14	1	172124-65480	CATCHER	1							
15	1	172164-66170	KEY ASSY, CYLINDER	1							
20	1	22137-080000	WASHER, 8	1							
21	1	22417-200200	PIN, COTTER 2.0X20	2							
22	1	22417-200200	PIN, COTTER 2.0X20	2							
23	1	26014-100252	BOLT, M10X 25	2							
24	1	26014-100252	BOLT, M10X 25	2							
25	1	26347-100002	NUT, M10	1							
26	1	172478-65750	SPONGE	1							

Fig.45. BONNET(2)

(A)=VIO30-5B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-65460	BONNET	1							
1-1	1	172A77-65420	BONNET,B Y	1							S
(A=M56001)											
2	1	172A46-65532	PLATE ASSY	1							
3	1	172A47-65550	COLLAR	3							
4	1	22157-100000	WASHER, 10	3							
5	1	26013-100252	BOLT, M10X 25	3							
6	1	26013-100252	BOLT, M10X 25	2							
7	1	172A46-65600-2	BONNET ASSY	1							
7-1	1	172A46-65601-2	BONNET ASSY	1							N
(A=FROM 1ST)											
7-2	1	172A46-65601-Y	BONNET ASSY	1							S
(A=M56001)											
8	2	172460-19180	TRIM	1							
10	2	172A46-65650	SPONGE	1							
10-1	2	172A46-65651	SPONGE	1							N
(A=FROM 1ST)											
11	1	172A46-65671	STAY, BONNET	1							
12	1	22157-100000	WASHER, 10	2							
13	1	26013-100252	BOLT, M10X 25	2							
14	1	26013-100252	BOLT, M10X 25	2							
15	1	172458-61261	WASHER	2							
16	1	172A46-65010	BRACKET ASSY	1							
17	1	172A46-65800-2	BONNET ASSY	1							
17-1	1	172A46-65801-2	BONNET ASSY	1							N
(A=FROM 1ST)											
17-2	1	172A46-65801-Y	BONNET ASSY	1							S
(A=M56001)											
18	2	172480-62900	TRIM	1							
20	2	172A46-65940	SEAL, BONNET	2							
21	2	172A46-65950	SEAL, BONNET	2							
21A	2	172A77-65810	SPONGE	1							W
(A=FROM 1ST)											
22	1	22157-100000	WASHER, 10	2							
23	1	26013-100202	BOLT, M10X 20	2							
24	1	26013-100252	BOLT, M10X 25	2							
25	1	26014-100202	BOLT, M10X 20	2							
26	1	172458-61261	WASHER	1							W
(A=MZZZZZ)											

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-05250	WASHER	6							
2	1	172A47-54610	CLIP, ANCHOR	1							
3	1	172183-65530	RUBBER, SEAL	1							
4	1	172A47-67090	CANOPY ASSY, TOPS	1							
5	1	172480-54150	PLUG	2							
6	1	172A47-67100	ROOF ASSY, CANOPY	1							
7	1	22217-160000	WASHER, SPRING 16	6							
8	1	26076-160402	BOLT, 10.916X 40	6							
9	1	26116-120302	BOLT, M12X 30 PLATED	4							
10	1	26116-120402	BOLT, M12X 40 PLATED	2							

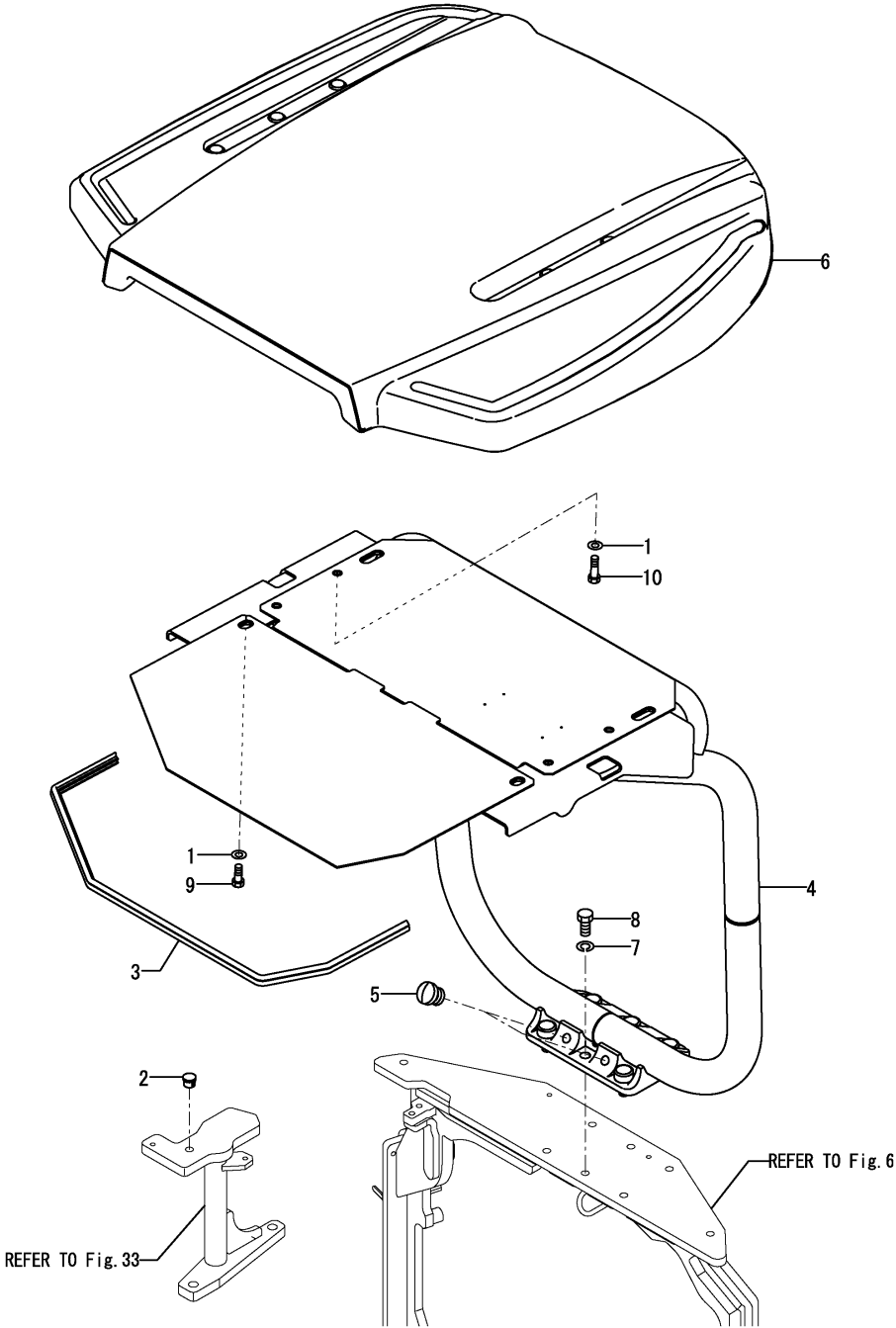
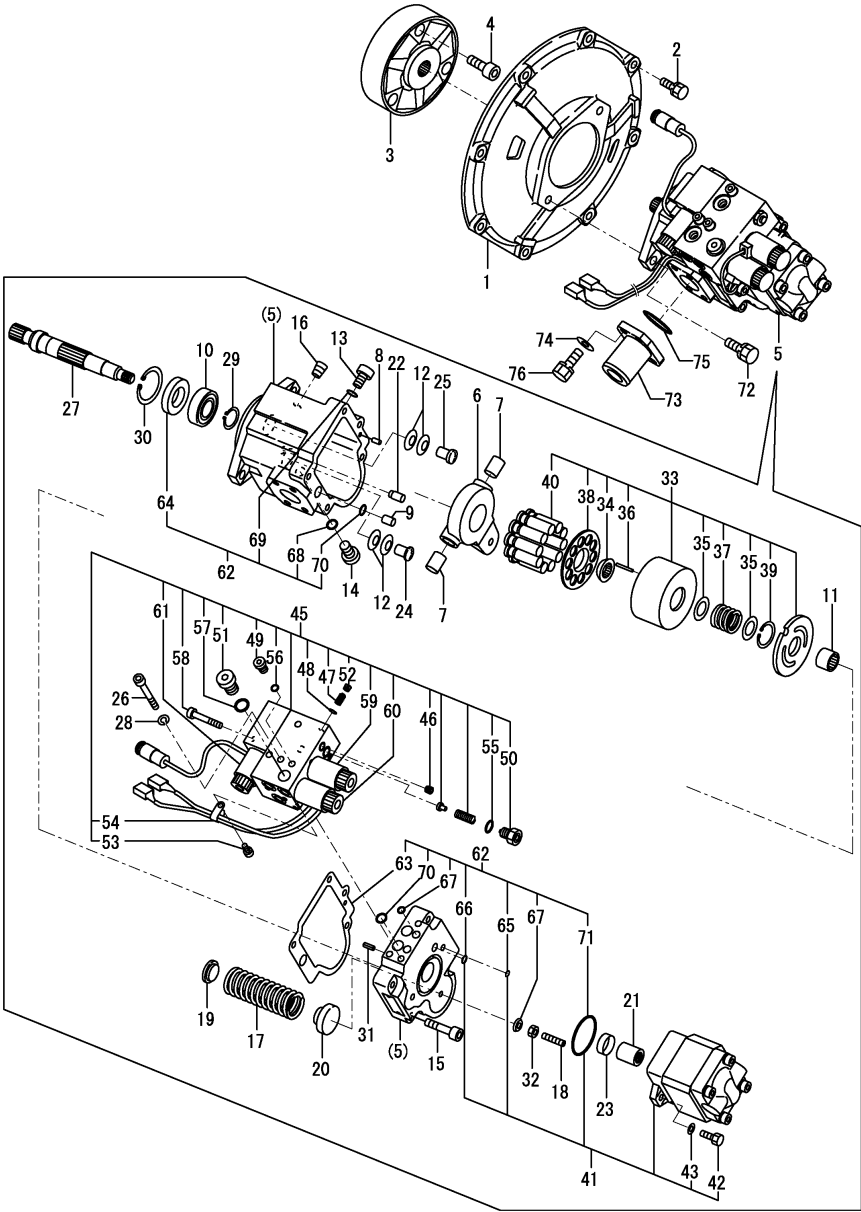


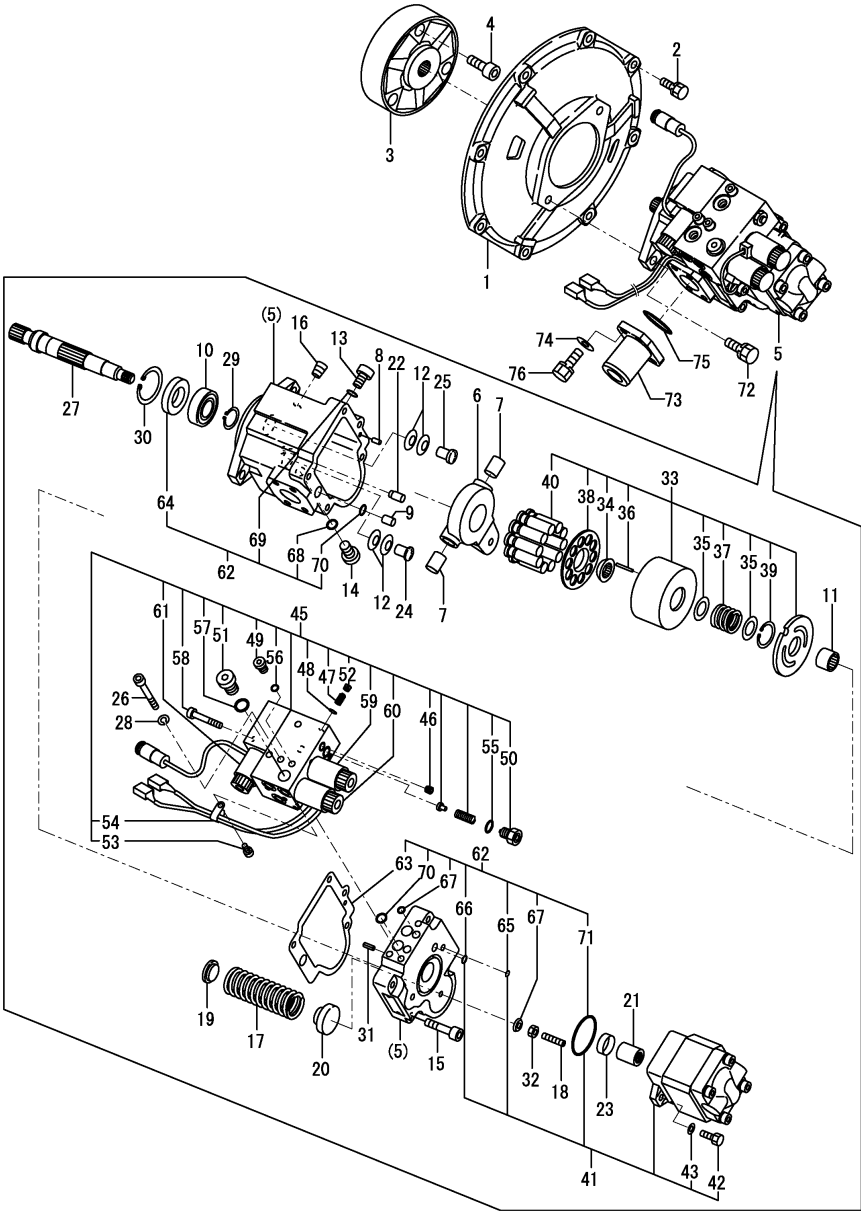
Fig.47. HYDRAULIC PUMP & JOINT(QUICK COUPLER SPEC.)



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-4	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	172958-73501	PUMP ASSY, Q	1							
6	2	172422-73140	PLATE, SWASH	1							
7	2	172422-73160	PIN, SWING	2							
8	2	172422-73220	PIN	1							
9	2	172422-73280	PIN	1							
10	2	172422-73290	BEARING, BALL	1							
11	2	172422-73500	BEARING, NEEDLE	1							
12	2	172422-73520	SPRING	4							
13	2	172422-73530	PLUG	1							
14	2	172422-73530	PLUG	1							
15	2	172422-73540	BOLT, HEX SOCKET	5							
16	2	172422-73550	PLUG	5							
17	2	172458-73550	SPRING, T1	1							
18	2	172422-73560	SCREW, HEX. SOCKET	1							
19	2	172458-73560	HOLDER, SPRING	1							
20	2	172458-73570	GUIDE, SPRING	1							
21	2	172422-73580	COUPLING	1							
22	2	172458-73580	ROD, G	1							
23	2	172422-73590	COLLAR	1							
24	2	172458-73590	PIN, STOPPER A	1							
25	2	172458-73600	PIN, STOPPER B	1							
26	2	172422-73610	BOLT, HEX SOCKET	3							
27	2	172458-73660	SHAFT	1							
28	2	22212-080000	WASHER 8	3							
29	2	22242-000250	RING, 25	1							
30	2	22252-000520	RING, 52	1							
31	2	22351-060016	PIN, SPRING 6.0X16	1							
32	2	26711-080002	NUT, M8	1							
33	2	172458-73510	BARREL KIT, CYLINDER	1							
34	3	172422-73130	HOLDER, BARREL	1							
35	3	172422-73250	RETAINER	2							
36	3	172458-73530	NEEDLE	3							
37	3	172458-73540	SPRING, C	1							
38	3	172458-73670	HOLDER, SHOE	1							
39	3	22252-000350	RING, 35	1							
40	3	172458-73520	PISTON ASSY, PUMP	1							
41	2	172458-73612	PUMP ASSY, GEAR	1							
42	3	172450-73120	BOLT, HEXAGON 8X25	2							
43	3	172450-73130	WASHER	2							
45	2	172958-73510	BLOCK ASSY, VALVE	1							
45-1	2	172958-73511	BLOCK ASSY, VALVE	1							N
(A=*2014.10.)											
45-2	2	172958-73512	VALVE KIT, SOL	1							N
(A=*2020.10)											
46	3	172422-73550	PLUG	8							
47	3	172422-73620	SPRING	1							
48	3	172422-73630	FILTER, COIN	1							

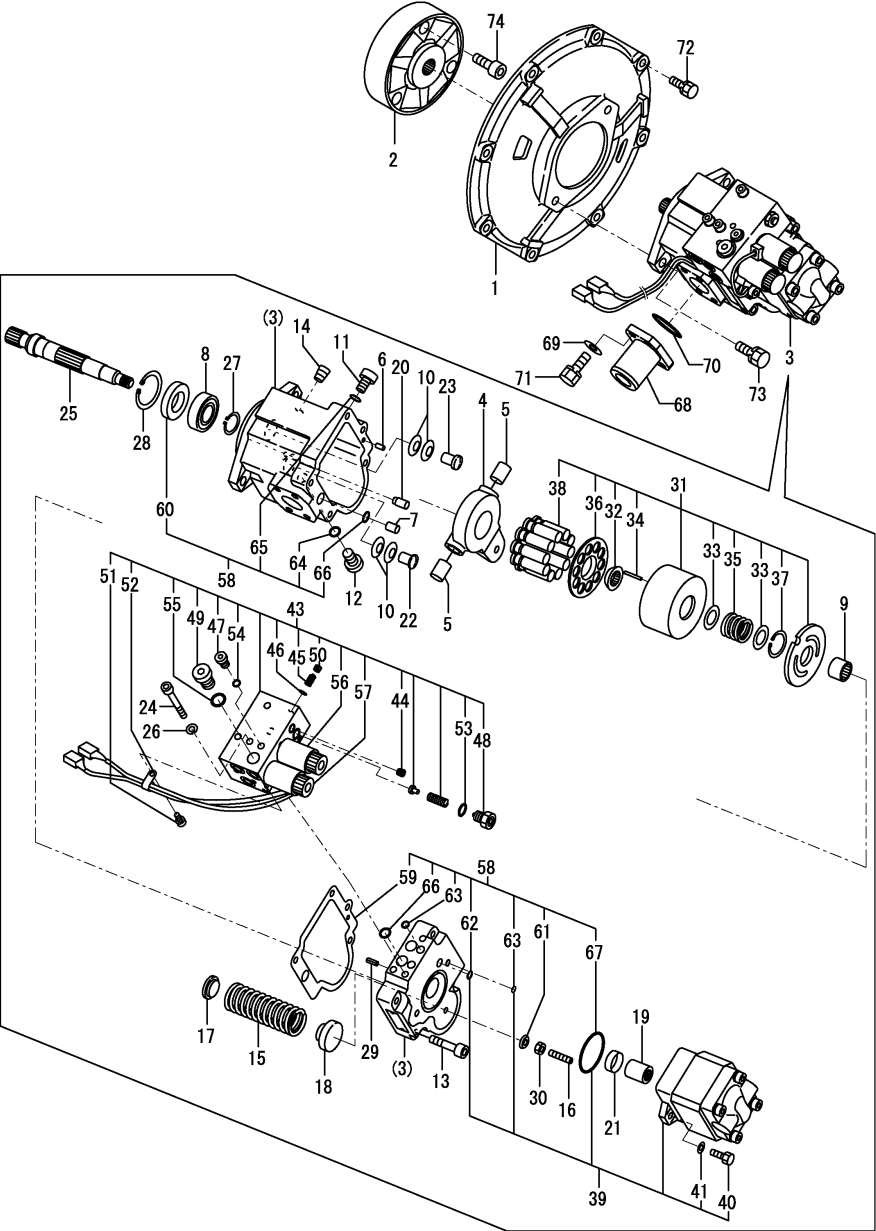
Fig.47. HYDRAULIC PUMP & JOINT(QUICK COUPLER SPEC.)



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
49	3	172458-73630	PLUG	1							
50	3	172422-73640	ADJUSTER KIT	1							
51	3	172458-73640	PLUG	1							
52	3	172422-73650	PLUG	2							
53	3	172422-73660	BOLT, HEX SOCKET	1							
54	3	172422-73670	BAND, BANDING	1							
55	3	24311-000110	O-RING, 1AP11.0	1							
56	3	24315-000080	O-RING, 1BP8.0	1							
57	3	24315-000140	O-RING, 1BP14.0	1							
58	3	26450-050452	BOLT, M5X 45	4							
59	3	172458-73680	VALVE, SC	1							1
60	3	172458-73690	VALVE, SC	1							2
61	3	172458-73790	VALVE, SOLENOID	1							3
62	2	172422-73700	SEAL SET, PUMP	1							
63	3	172422-73170	GASKET	1							
64	3	172422-73510	SEAL, OIL	1							
65	3	172422-73570	WASHER, SEAL	1							
66	3	24315-000070	O-RING, 1BP7.0	1							
67	3	24315-000080	O-RING, 1BP8.0	2							
68	3	24315-000110	O-RING, 1BP11.0	1							
69	3	24315-000110	O-RING, 1BP11.0	1							
70	3	24315-000120	O-RING, 1BP12.0	3							
71	3	24325-000550	O-RING, 1BG55.0	1							
72	1	26013-120352	BOLT, M12X 35	2							
73	1	172422-76100	FLANGE, 40.5	1							
74	1	22117-100000	WASHER, 10	4							
75	1	24321-000400	O-RING, 1AG40.0	1							
76	1	26013-100302	BOLT, M10X 30	4							

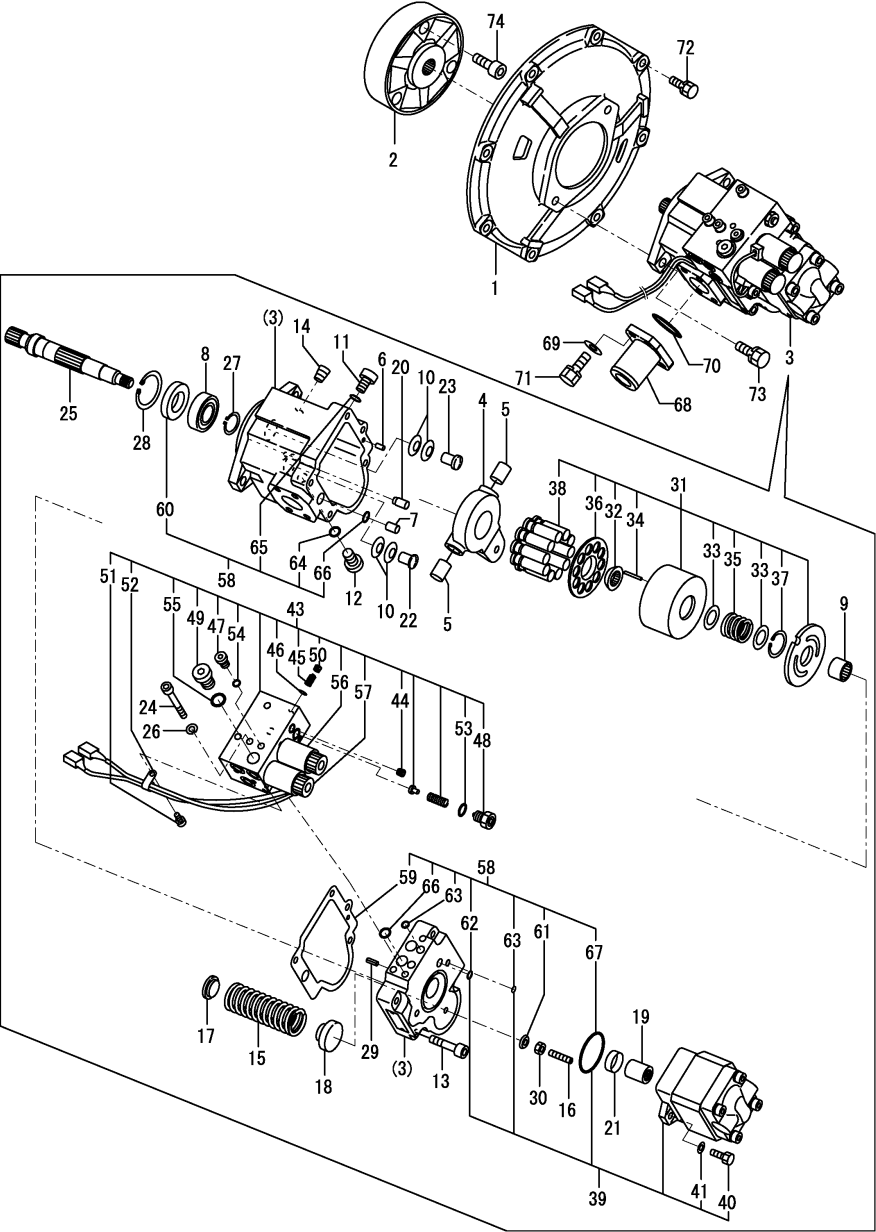
Fig.86. (47A)HYDRAULIC PUMP & JOINT(WITHOUT QUICK COUPLER SPEC.)



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-4	COVER, FLYWHEEL	1							
2	1	172165-71200	COUPLING	1							
3	1	172458-73501	PUMP ASSY	1							
4	2	172422-73140	PLATE, SWASH	1							
5	2	172422-73160	PIN, SWING	2							
6	2	172422-73220	PIN	1							
7	2	172422-73280	PIN	1							
8	2	172422-73290	BEARING, BALL	1							
9	2	172422-73500	BEARING, NEEDLE	1							
10	2	172422-73520	SPRING	4							
11	2	172422-73530	PLUG	1							
12	2	172422-73530	PLUG	1							
13	2	172422-73540	BOLT, HEX SOCKET	5							
14	2	172422-73550	PLUG	5							
15	2	172458-73550	SPRING, T1	1							
16	2	172422-73560	SCREW, HEX. SOCKET	1							
17	2	172458-73560	HOLDER, SPRING	1							
18	2	172458-73570	GUIDE, SPRING	1							
19	2	172422-73580	COUPLING	1							
20	2	172458-73580	ROD, G	1							
21	2	172422-73590	COLLAR	1							
22	2	172458-73590	PIN, STOPPER A	1							
23	2	172458-73600	PIN, STOPPER B	1							
24	2	172422-73610	BOLT, HEX SOCKET	3							
25	2	172458-73660	SHAFT	1							
26	2	22212-080000	WASHER 8	3							
27	2	22242-000250	RING, 25	1							
28	2	22252-000520	RING, 52	1							
29	2	22351-060016	PIN, SPRING 6.0X16	1							
30	2	26711-080002	NUT, M8	1							
31	2	172458-73510	BARREL KIT, CYLINDER	1							
32	3	172422-73130	HOLDER, BARREL	1							
33	3	172422-73250	RETAINER	2							
34	3	172458-73530	NEEDLE	3							
35	3	172458-73540	SPRING, C	1							
36	3	172458-73670	HOLDER, SHOE	1							
37	3	22252-000350	RING, 35	1							
38	3	172458-73520	PISTON ASSY, PUMP	1							
39	2	172458-73612	PUMP ASSY, GEAR	1							
40	3	172450-73120	BOLT, HEXAGON 8X25	2							
41	3	172450-73130	WASHER	2							
43	2	172458-73620	BLOCK ASSY, VALVE	1							
43-1	2	172458-73621	BLOCK ASSY, VALVE	1							N
(A="2014.10.)											
43-2	2	172458-73622	VALVE KIT, SOL	1							N
(A="2020.10)											
44	3	172422-73550	PLUG	7							
45	3	172422-73620	SPRING	1							
46	3	172422-73630	FILTER, COIN	1							
47	3	172458-73630	PLUG	1							
48	3	172422-73640	ADJUSTER KIT	1							

Fig.86. (47A)HYDRAULIC PUMP & JOINT(WITHOUT QUICK COUPLER SPEC.)



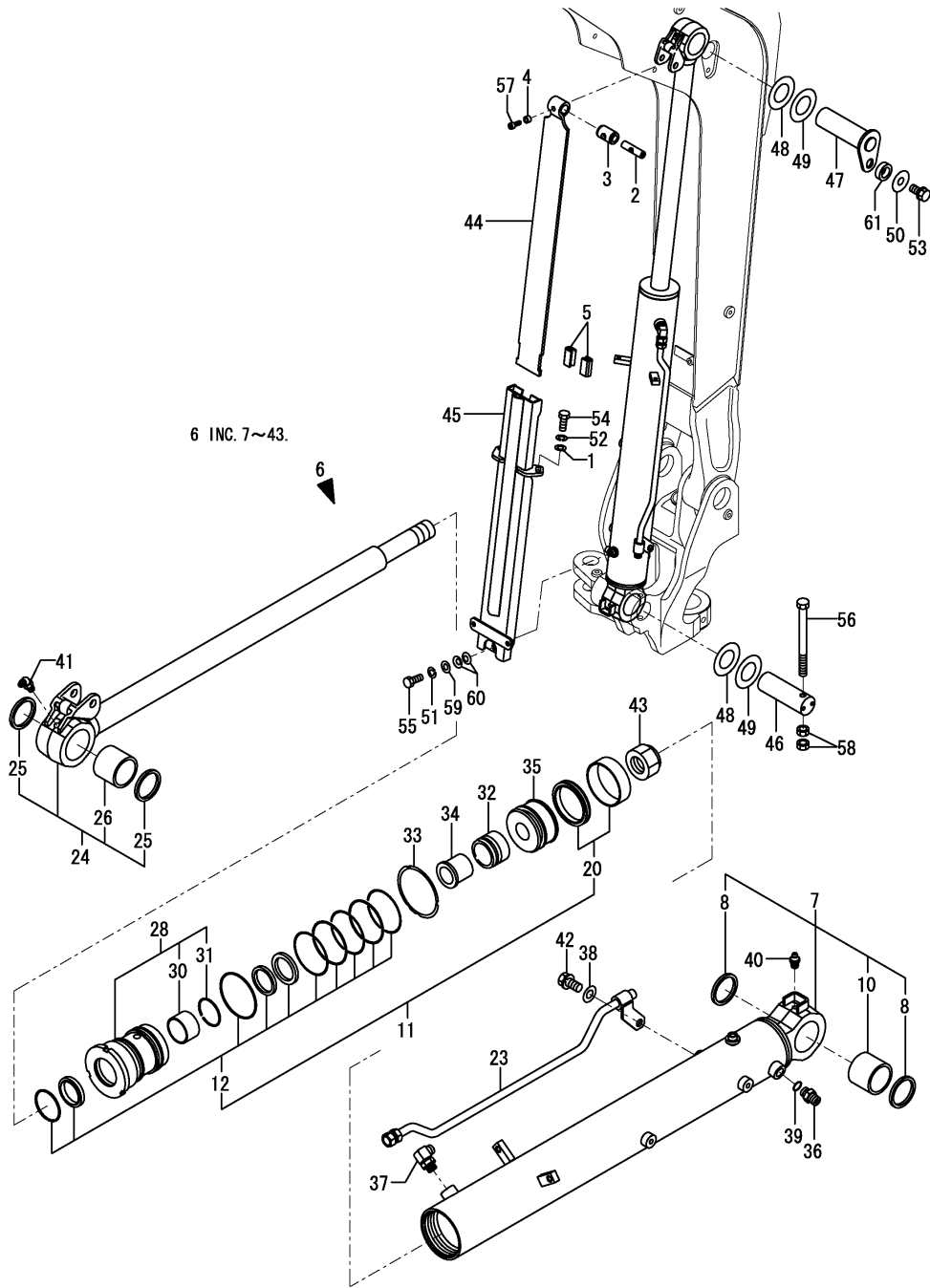
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
49	3	172458-73640	PLUG	1							
50	3	172422-73650	PLUG	2							
51	3	172422-73660	BOLT, HEX SOCKET	1							
52	3	172422-73670	BAND, BANDING	1							
53	3	24311-000100	O-RING, 1AP10.0	1							
54	3	24315-000080	O-RING, 1BP8.0	1							
55	3	24315-000140	O-RING, 1BP14.0	1							
56	3	172458-73680	VALVE, SC	1							1
57	3	172458-73690	VALVE, SC	1							2
58	2	172422-73700	SEAL SET, PUMP	1							
59	3	172422-73170	GASKET	1							
60	3	172422-73510	SEAL, OIL	1							
61	3	172422-73570	WASHER, SEAL	1							
62	3	24315-000070	O-RING, 1BP7.0	1							
63	3	24315-000080	O-RING, 1BP8.0	2							
64	3	24315-000110	O-RING, 1BP11.0	1							
65	3	24315-000110	O-RING, 1BP11.0	1							
66	3	24315-000120	O-RING, 1BP12.0	3							
67	3	24325-000550	O-RING, 1BG55.0	1							
68	1	172422-76100	FLANGE, 40.5	1							
69	1	22117-100000	WASHER, 10	4							
70	1	24321-000400	O-RING, 1AG40.0	1							
71	1	26013-100302	BOLT, M10X 30	4							
72	1	26013-100302	BOLT, M10X 30	8							
73	1	26013-120352	BOLT, M12X 35	2							
74	1	26450-120402	BOLT, M12X 40	3							

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

Fig.48. BOOM CYLINDER

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

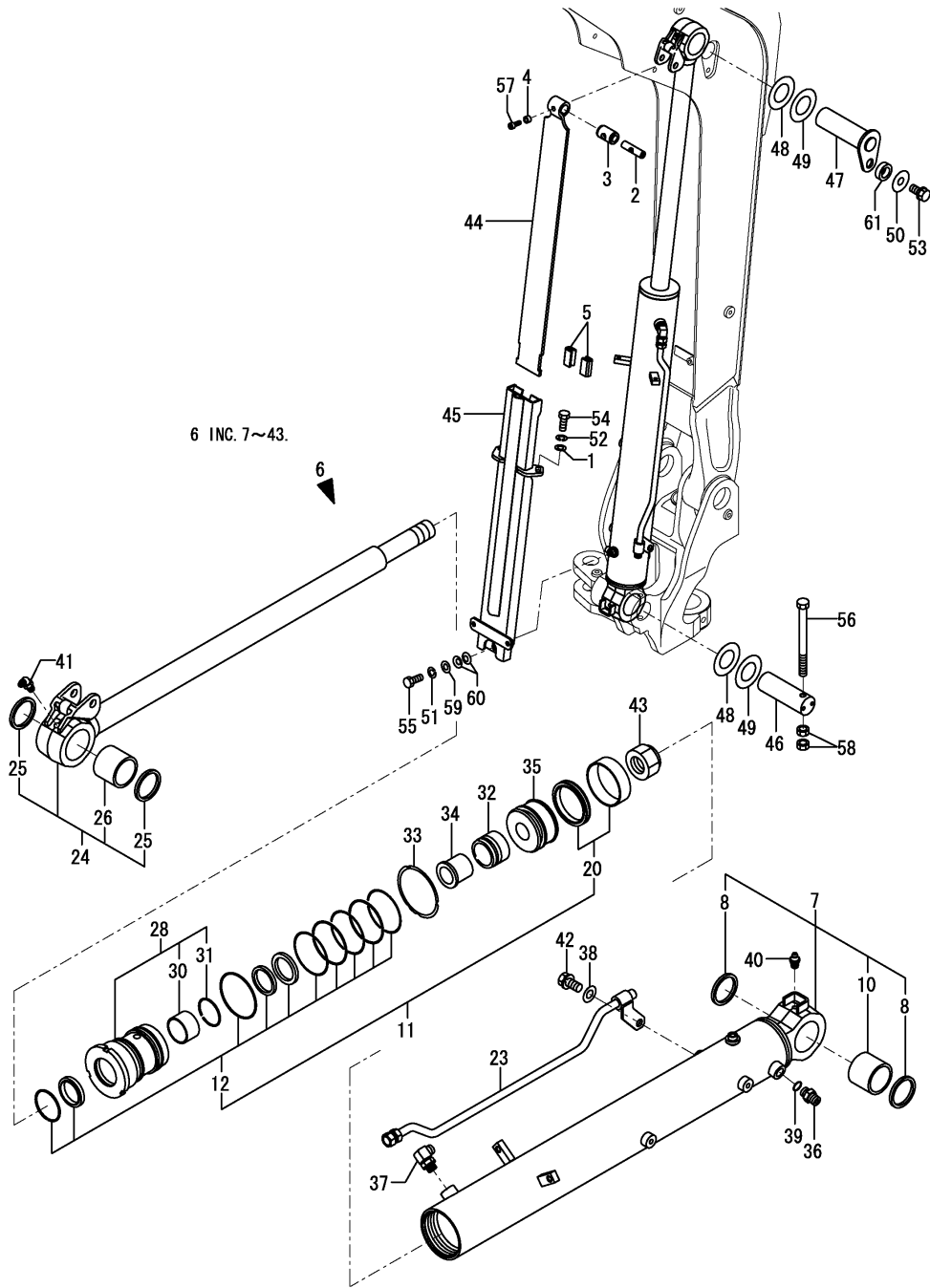


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46042	SEAT, SPRING	2							
2	1	172A23-72043	SHAFT	1							
3	1	172A23-72052	GROMMET	1							
4	1	172A46-72070	SPACER	1							
5	1	172A23-72081	GUIDE, SLIDE	2							
6	1	172A46-72101-2	CYLINDER ASSY, BOOM	1							
6-1	1	172A46-72101-N	CYLINDER ASSY, BOOM	1							S
(A=M56001)											
7	2	172A46-72110-2	TUBE, BOOM	1							
7-1	2	172A46-72110-N	TUBE, BOOM	1							S
(A=M56001)											
8	3	172448-54120	SEAL, DUST	2							
10	3	172458-72130	BUSH	1							
11	2	172A46-72140	SEAL SET, CYLINDER	1							
12	3	172A46-72150	SEAL SET, HEAD	1							
20	3	172444-72951	SEAL SET, PISTON	1							
23	2	172A46-72170-2	PIPE ASSY, BOOM	1							
23-1	2	172A46-72170-N	PIPE ASSY, BOOM	1							S
(A=M56001)											
24	2	172A46-72201	ROD ASSY, BOOM	1							
25	3	172448-54120	SEAL, DUST	2							
26	3	172458-72130	BUSH	1							
28	2	172A46-72250	HEAD ASSY	1							
30	3	24550-045300	BUSH, 45X30	1							
31	3	933111-26600	RING, SPRING	1							
32	2	172458-72260	PLUNGER, CUSHION	1							
33	2	172146-72270	WASHER, LOCK	1							
34	2	172458-72290	COLLAR, CUSHION	1							
35	2	172444-72441	PISTON	1							
36	2	172730-75141	ADAPTER	1							
37	2	172142-76181	JOINT ASSY	1							
38	2	22137-100000	WASHER, 10	1							
39	2	24315-000140	O-RING, 1BP14.0	1							
40	2	24761-020000	NIPPLE, GREASE PT1/8	1							
41	2	24761-040000	NIPPLE, GREASE B	1							
42	2	26013-100202	BOLT, M10X 20	1							
43	2	933111-20200	NUT	1							
44	1	172A47-72881-2	PLATE, SLIDE	1							
44-1	1	172A47-72881-N	PLATE, SLIDE	1							S
(A=M56001)											
45	1	172A46-72950-2	GUIDE ASSY	1							
45-1	1	172A46-72950-N	GUIDE ASSY	1							S
(A=M56001)											
46	1	172458-81831	PIN	1							
47	1	172A46-81910	PIN ASSY	1							
48	1	172165-82520	SHIM	2							
49	1	172165-82530	SHIM	2							
50	1	22157-120000	WASHER, 12	1							
51	1	22217-100000	WASHER, SPRING 10	1							
52	1	22217-100000	WASHER, SPRING 10	2							
53	1	26013-120252	BOLT, M12X 25	1							

Fig.48. BOOM CYLINDER

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

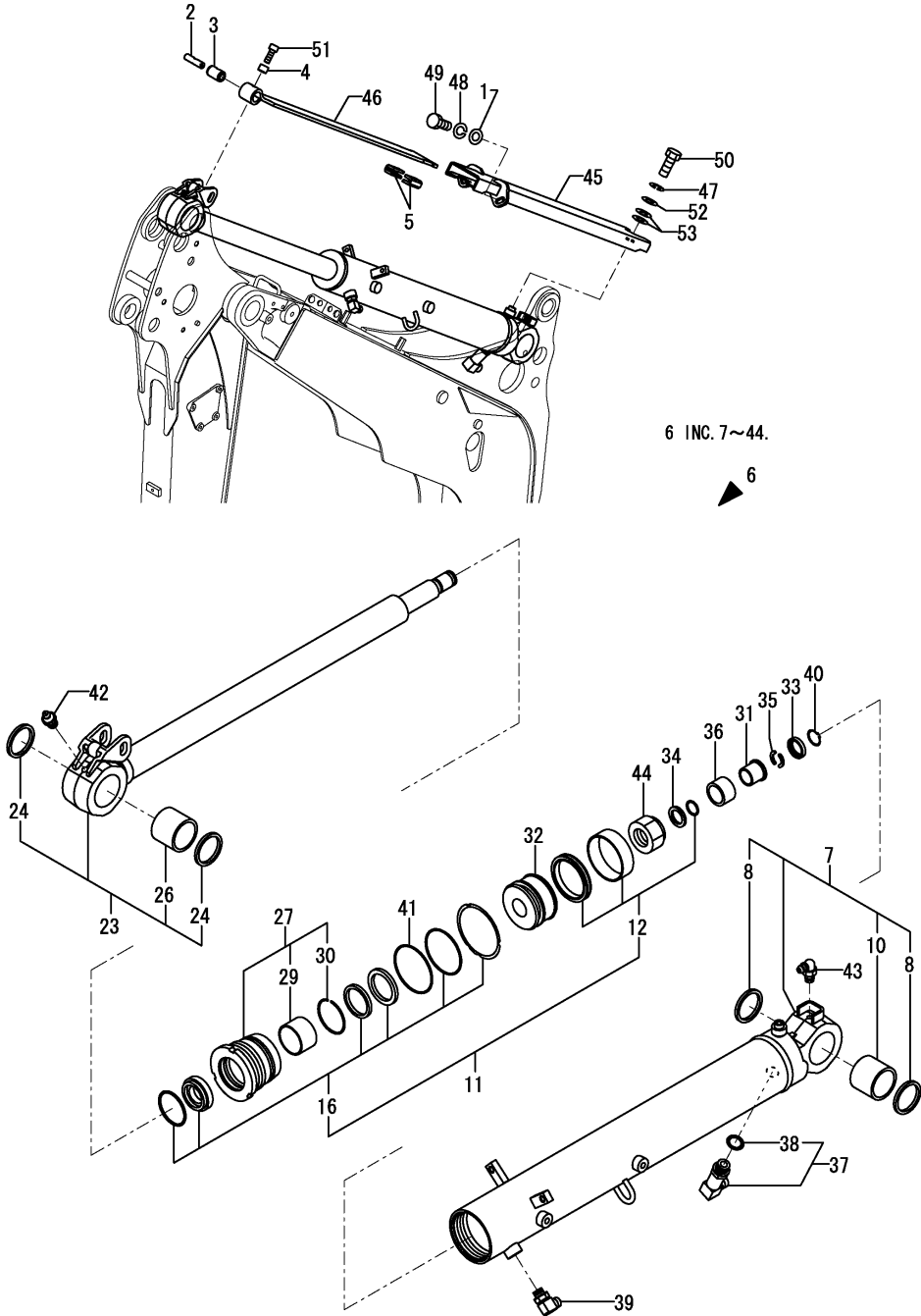


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
54	1	26076-100202	BOLT, 10.910X 20	2							
55	1	26116-100162	BOLT, M10X 16 PLATED	1							
56	1	26116-121402	BOLT, M12X165 PLATED	1							
57	1	172A47-72840	BOLT	1							
58	1	26716-120002	NUT, M12	2							
59	1	933147-03400	WASHER, BRAKE ARM	1							
60	1	933168-14170	SPRING	2							
61	1	172164-81670	SPACER	1							

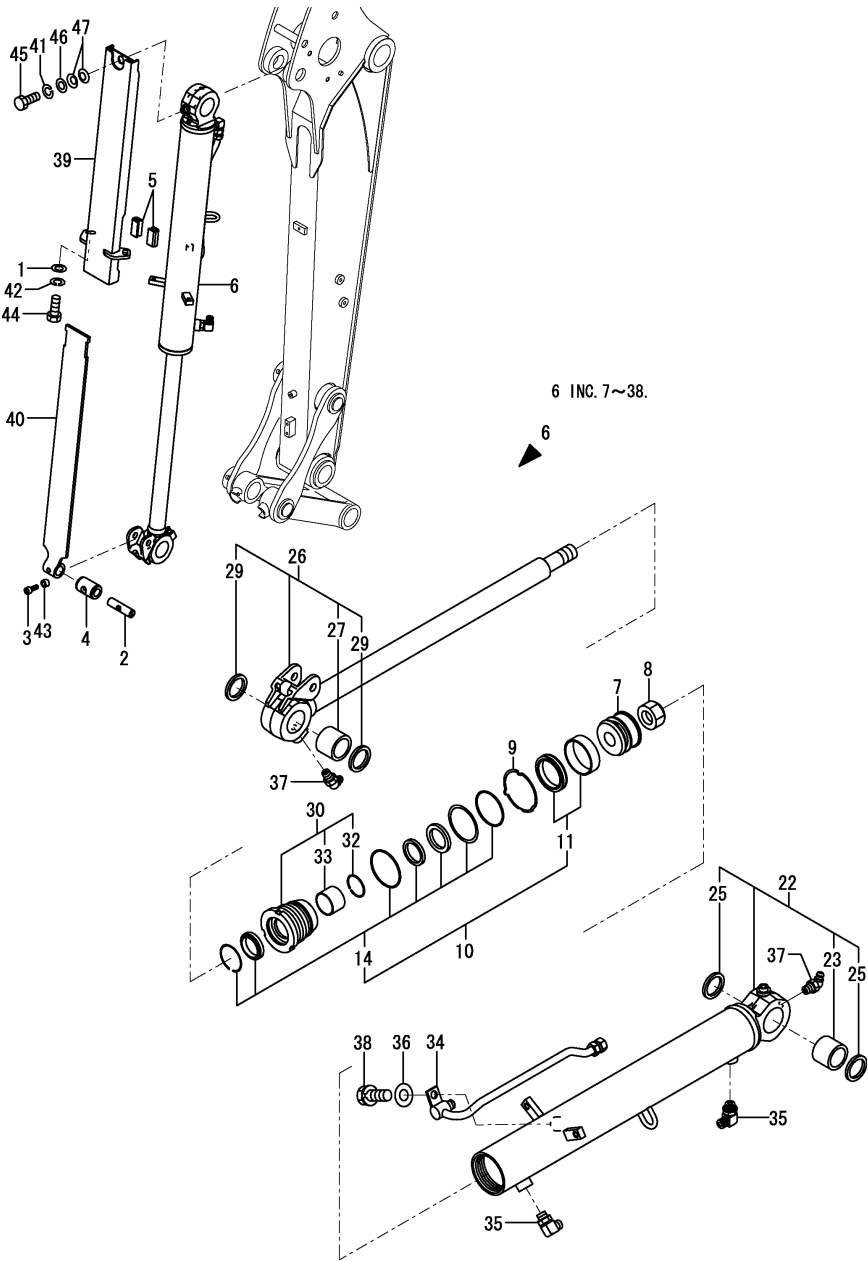
Fig.49. ARM CYLINDER

(A)=VIO30-5B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46042	SEAT, SPRING	2							
2	1	172A23-72043	SHAFT	1							
3	1	172A23-72052	GROMMET	1							
4	1	172A46-72070	SPACER	1							
5	1	172A23-72081	GUIDE, SLIDE	2							
6	1	172A45-72300-2	CYLINDER ASSY, ARM	1							
6-1	1	172A45-72300-N	CYLINDER ASSY, ARM	1							S
(A=M56001)											
7	2	172A45-72310-2	TUBE, ARM	1							
7-1	2	172A45-72310-N	TUBE, ARM	1							S
(A=M56001)											
8	3	172448-54120	SEAL, DUST	2							
10	3	172151-72591	BUSH	1							
11	2	172A45-72390	SEAL SET, CYLINDER	1							
12	3	172458-72021	SEAL SET, PISTON	1							
16	3	172A45-72910	SEAL SET, HEAD	1							
23	2	172A45-72400	ROD ASSY, ARM	1							
24	3	172448-54120	SEAL, DUST	2							
26	3	172151-72591	BUSH	1							
27	2	172A45-72450	HEAD ASSY	1							
29	3	172151-72540	BUSH, ROD	1							
30	3	933125-94500	RING, SPRING	1							
31	2	172458-72460	COLLAR, CUSHION	1							
32	2	172422-72470	PISTON	1							
33	2	172458-72470	COVER, STOPPER	1							
34	2	172423-72530	SPACER	1							
35	2	172423-72540	STOPPER	2							
36	2	172460-72941	PLUNGER, CUSHION	1							
37	2	172524-76110	ELBOW	1							
38	3	24315-000180	O-RING, 1BP18.0	1							
39	2	172142-76181	JOINT ASSY	1							
40	2	22242-000260	RING, 26	1							
41	2	24325-000800	O-RING, 1BG80.0	1							
42	2	24761-020000	NIPPLE, GREASE PT1/8	1							
43	2	24761-050000	NIPPLE, GREASE C	1							
44	2	933111-20200	NUT	1							
45	1	172A47-72850-2	GUIDE ASSY	1							
45-1	1	172A47-72850-N	GUIDE ASSY	1							S
(A=M56001)											
46	1	172A47-72881-2	PLATE, SLIDE	1							
46-1	1	172A47-72881-N	PLATE, SLIDE	1							S
(A=M56001)											
47	1	22217-100000	WASHER, SPRING 10	1							
48	1	22217-100000	WASHER, SPRING 10	2							
49	1	26076-100202	BOLT, 10.910X 20	2							
50	1	26116-100162	BOLT, M10X 16 PLATED	1							
51	1	172A47-72840	BOLT	1							
52	1	933147-03400	WASHER, BRAKE ARM	1							
53	1	933168-14170	SPRING	2							



(A)=VIO30-5B P(KR)
(B)=
(C)=

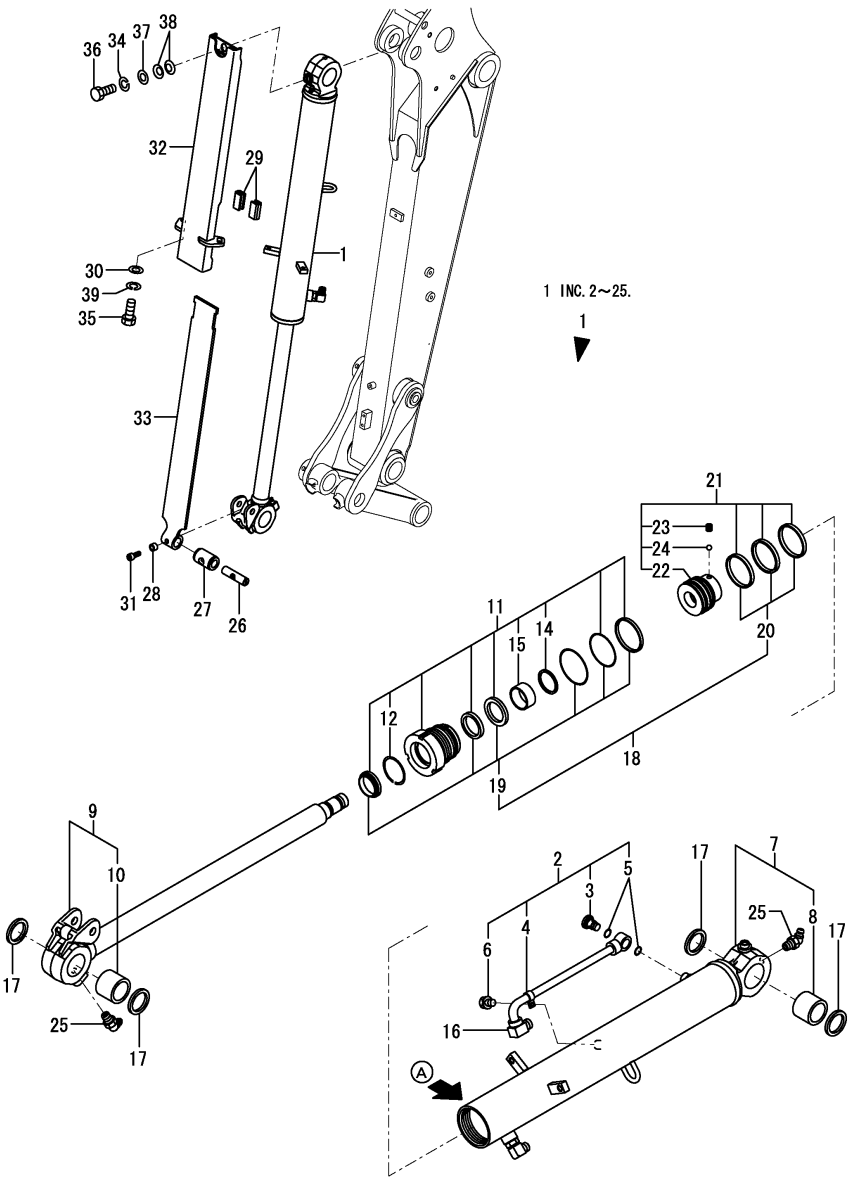
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46042	SEAT, SPRING	2							
2	1	172A23-72043	SHAFT	1							
3	1	172A47-72840	BOLT	1							
4	1	172A23-72052	GROMMET	1							
5	1	172A23-72081	GUIDE, SLIDE	2							
6	1	172A46-72502-2	CYLINDER ASSY	1							
6-1	1	172A46-72502-N	CYLINDER ASSY	1						S	1
(A=M56001)											
7	2	172456-72190	PISTON	1							
8	2	172141-72250	NUT	1							
9	2	172141-72420	WASHER, LOCK	1							
10	2	172A46-72470	SEAL SET, CYLINDER	1							
11	3	172460-72070	SEAL SET, PISTON	1							
14	3	172A46-72590	SEAL SET, HEAD	1							
22	2	172A46-72511-2	TUBE, BUCKET	1							
22-1	2	172A46-72511-N	TUBE, BUCKET	1						S	
(A=M56001)											
23	3	172168-72240	BUSH	1							
25	3	172168-81270	SEAL, DUST	2							
26	2	172A46-72541	ROD ASSY, BUCKET	1							
27	3	172168-72240	BUSH	1							
29	3	172168-81270	SEAL, DUST	2							
30	2	172A46-72570	HEAD ASSY	1							
32	3	172141-73090	RING, SPRING	1							
33	3	24550-040300	BUSH, 40X30	1							
34	2	172A46-72601-2	PIPE ASSY, BUCKET	1							
34-1	2	172A46-72601-N	PIPE ASSY, BUCKET	1						S	
(A=M56001)											
35	2	172142-76181	JOINT ASSY	2							
36	2	22137-100000	WASHER, 10	1							
37	2	24761-040000	NIPPLE, GREASE B	2							
38	2	26013-100202	BOLT, M10X 20	1							
39	1	172A25-72900-2	GUIDE ASSY	1							
39-1	1	172A25-72900-N	GUIDE ASSY	1						S	
(A=M56001)											
40	1	172A25-72951-2	PLATE, SLIDE	1							
40-1	1	172A25-72951-N	PLATE, SLIDE	1						S	
(A=M56001)											
41	1	22217-100000	WASHER, SPRING 10	1							
42	1	22217-100000	WASHER, SPRING 10	2							
43	1	172A46-72070	SPACER	1							
44	1	26076-100202	BOLT, 10.910X 20	2							
45	1	26116-100162	BOLT, M10X 16 PLATED	1							
46	1	933147-03400	WASHER, BRAKE ARM	1							
47	1	933168-14170	SPRING	2							

Remarks
(1)Interchangeable by Fig.90(50A) No.1.

OCS10-M52900 HYDRAULIC OIL EQUIPMENT

Fig.90. (50A)BUCKET CYLINDER(K SPEC.)

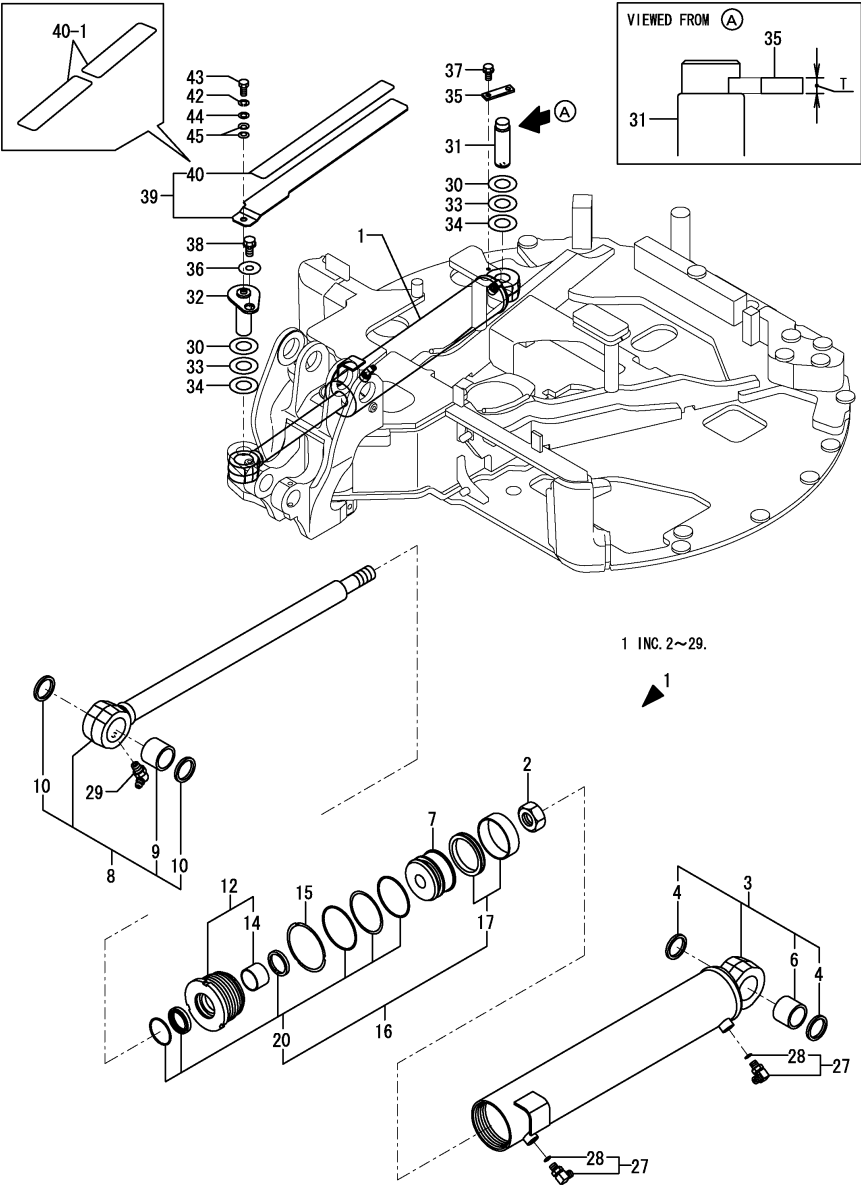


Remarks

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

							OCS10-M52900 Fig.90					
							(A)=VIO30-5B P(KR)		(D)=		(E)=	
							(B)=		(F)=			
							(C)=					
									Q'ty			
									(A)		(B)	
									(C)		(D)	
									(E)		(F)	
No.	Lev.	Parts No.	Description									
1	1	172A86-70700-N	CYLINDER ASSY,BT						1			
2	2	172A23-70600	PLUG ASSY						1			
3	3	172A23-70610	PLUG						1			
4	3	172A23-70620	HOLDER, PIPE						1			
5	3	24315-350220	O-RING, 1BP22A						2			
6	3	26013-080162	BOLT, M8X 16						1			
7	2	172A86-70710-N	TUBE ASSY						1			
8	3	172168-72240	BUSH						1			
9	2	172A86-70730	ROD ASSY						1			
10	3	172168-72240	BUSH						1			
11	2	172A86-70740	HEAD ASSY						1			
12	3	172A23-70210	RING, RETAINING						1			
14	3	172A86-70760	RING, SNAP						1			
15	3	172A23-71460	BEARING, SLEEVE						1			
16	2	172A86-70770	PIPE ASSY						1			
17	2	172168-81270	SEAL, DUST						4			
18	2	172A86-70790	SEAL KIT						1			
19	3	172A86-70800	SEAL KIT, HEAD						1			
20	3	172B04-72690	SEAL SET,PISTON 70						1			
21	2	172A23-71470	PISTON ASSY						1			
22	3	172A23-71480	PISTON						1			
23	3	172A79-72870	SCREW,M8						1			
24	3	24190-070002	BALL, STEEL 7/32						1			
25	2	24761-040000	NIPPLE, GREASE B						2			
26	1	172A23-72043	SHAFT						1			
27	1	172A23-72052	GROMMET						1			
28	1	172A46-72070	SPACER						1			
29	1	172A23-72081	GUIDE, SLIDE						2			
30	1	172A79-72570	WASHER						2			
31	1	172A47-72840	BOLT						1			
32	1	172A25-72900-N	GUIDE ASSY						1			
33	1	172A25-72951-N	PLATE, SLIDE						1			
34	1	22217-100000	WASHER, SPRING 10						1			
35	1	26076-100252	BOLT, 10.910X 25						2			
36	1	26116-100162	BOLT, M10X 16 PLATED						1			
37	1	933147-03400	WASHER, BRAKE ARM						1			
38	1	933168-14170	SPRING						2			
39	1	22217-100000	WASHER, SPRING 10						2			

Fig.51. SWING CYLINDER



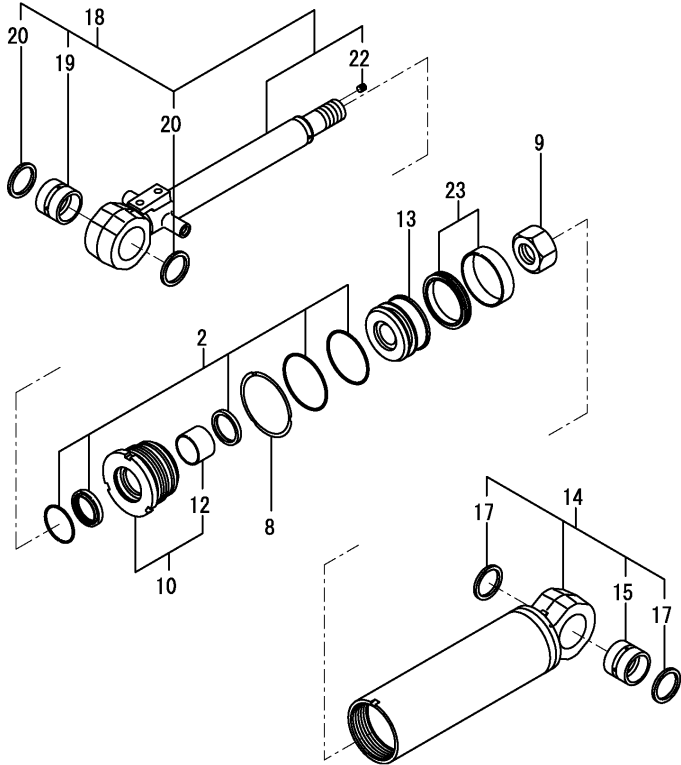
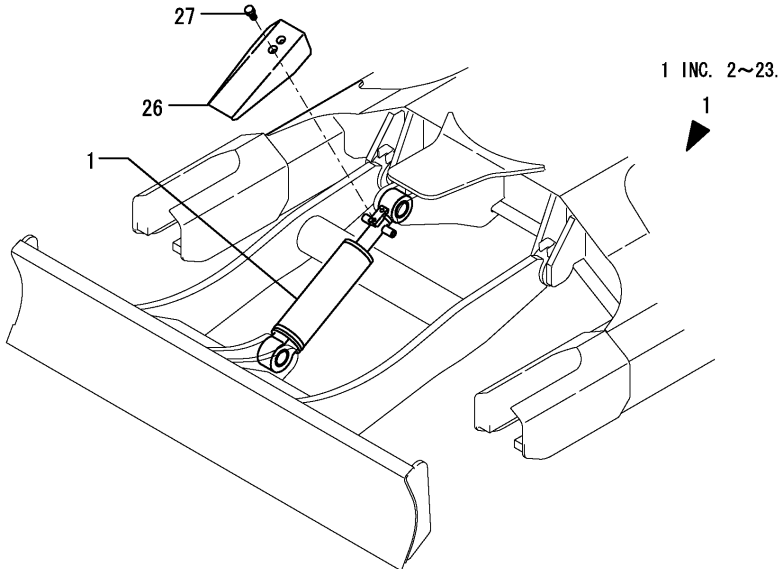
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-72700	CYLINDER ASSY, SWING	1							
2	2	172141-72250	NUT	1							
3	2	172A46-72710	TUBE, SWING	1							
4	3	172448-72650	SEAL, DUST	2							
6	3	172458-72740	BUSH	1							
7	2	172459-72760	PISTON	1							
8	2	172A46-72800	ROD ASSY, SWING	1							
9	3	172165-72310	BUSH	1							
10	3	172448-72650	SEAL, DUST	2							
12	2	172A46-72850	HEAD ASSY	1							
14	3	24550-040300	BUSH, 40X30	1							
15	2	172151-72870	WASHER, LOCK	1							
16	2	172A46-72900	SEAL SET, CYLINDER	1							
17	3	172460-72050	SEAL SET, PISTON	1							
20	3	172A46-72910	SEAL SET, HEAD	1							
27	2	172141-76181	CONNECTOR ASSY, 02FF	2							
28	3	41851-000110	O-RING	2							
29	2	24761-050000	NIPPLE, GREASE C	1							
30	1	172A25-81900	SHIM	2							
31	1	172A46-81900	PIN	1							
31-1	1	172A46-81901	PIN	1						F	2
(A=M54508)											
32	1	172458-81930-W	PIN	1							
33	1	172165-82580	SHIM	2							
34	1	172165-82590	SHIM	2							
35	1	172117-83970-7	PLATE, LOCK	1							
35-1	1	172A47-81980	PLATE, LOCK	1						S	2
(A=M54508)											
36	1	22157-120000	WASHER, 12	1							
37	1	26013-100202	BOLT, M10X 20	2							
37-1	1	26013-100252	BOLT, M10X 25	2							S
(A=M54508)											
38	1	26013-120302	BOLT, M12X 30	1							
39	1	172A46-72870	COVER, SWING	1							
40	2	172164-62430	SHEET	1							
40-1	2	172164-62431	SHEET	2						F	1
(A=M/#XXXXXX)											
42	1	22217-100000	WASHER, SPRING 10	1							
43	1	26116-100162	BOLT, M10X 16 PLATED	1							
44	1	933147-03400	WASHER, BRAKE ARM	1							
45	1	933168-14170	SPRING	2							

Remarks
(1)PLEASE CHANGE TWO WITH A SET.
(2)T : Ref.No.31, 35 = 6mm,
No.31-1, 35-1 = 9mm.
Interchangeable by simultaneous
replacement with Ref.No.35-1,37-1.

Fig.52. BLADE CYLINDER



(A)=VIO30-5B P(KR)
(B)=
(C)=

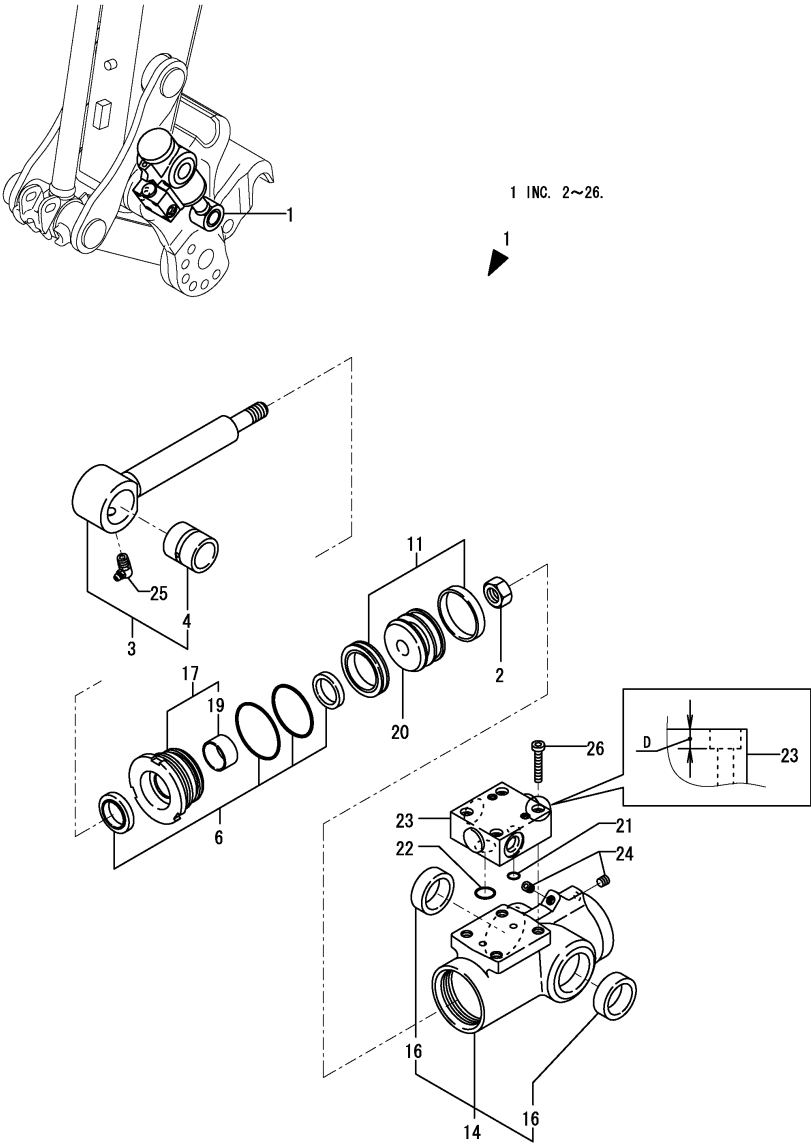
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-72610-2	CYLINDER ASSY, BLADE	1							
2	2	172458-72050	SEAL SET, HEAD	1							
8	2	172142-72260	WASHER, LOCK	1							
9	2	172175-72550	NUT	1							
10	2	172142-72640	HEAD ASSY	1							
12	3	24550-040300	BUSH, 40X30	1							
13	2	172458-72670	PISTON	1							
14	2	172458-72680-2	TUBE ASSY, BLADE	1							
15	3	172168-72410	BUSH	1							
17	3	172448-72650	SEAL, DUST	2							
18	2	172458-72690	ROD ASSY, BLADE	1							
19	3	172168-72410	BUSH	1							
20	3	172448-72650	SEAL, DUST	2							
22	4	23871-005000	PLUG, R005	1							
23	2	172142-72951	SEAL SET, PISTON	1							
26	1	172422-72791-2	COVER, BLADE	1							
27	1	26013-100162	BOLT, M10X 16	2							

Fig.53. HITCH CYLINDER

(A)=VIO30-5B P(KR)
(B)=
(C)=

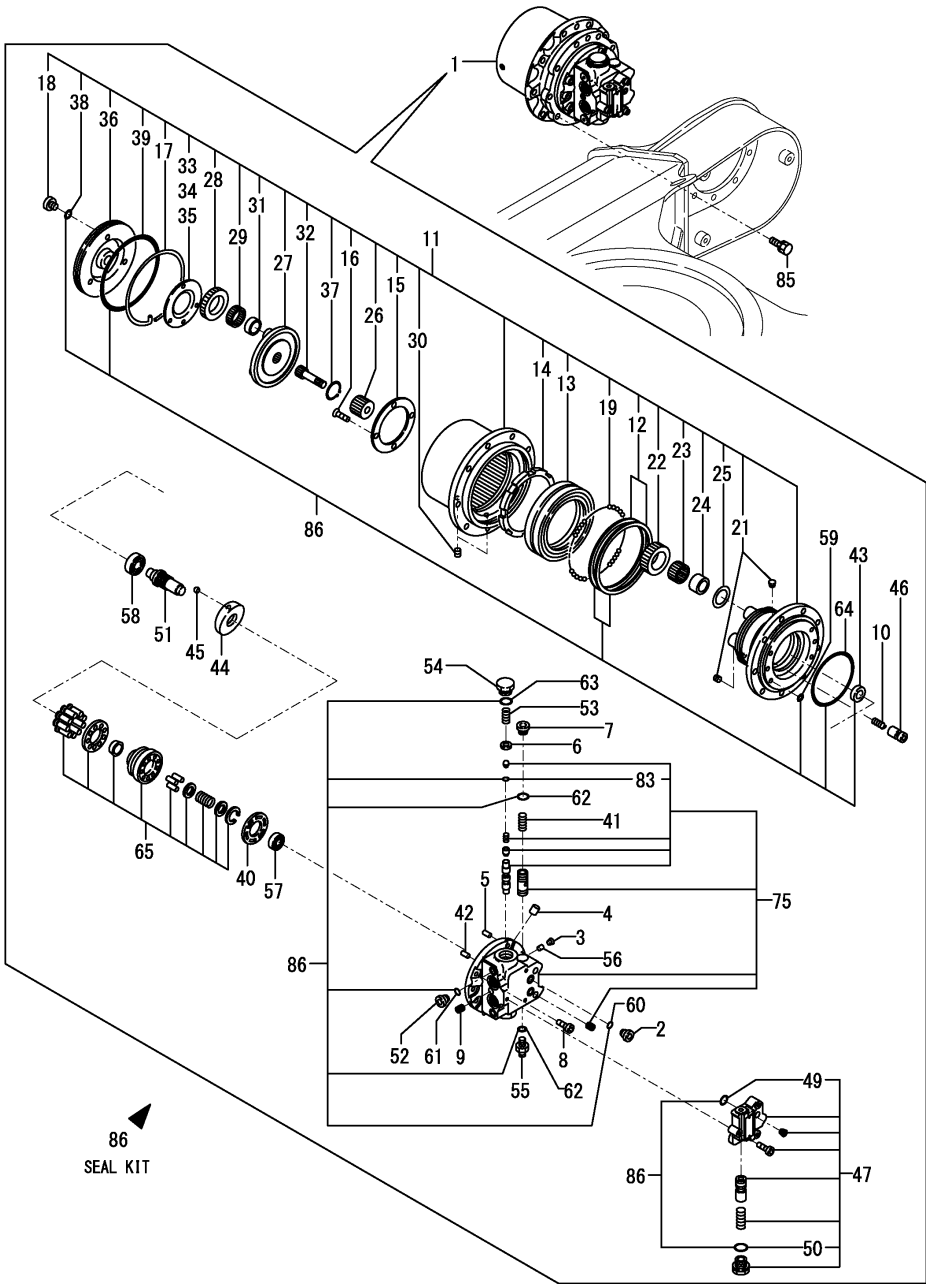
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-72801-2	CYLINDER ASSY, HITCH	1							
1-1	1	172958-72801-N	CYLINDER ASSY, HITCH	1						S	
(A=M56001)											
2	2	172156-72400	NUT	1							
3	2	172958-72750	ROD ASSY, HITCH	1							
4	3	172156-72770	BUSH, PIN	1							
6	2	172958-72760	SEAL SET, HEAD	1							
11	2	172958-72770	SEAL SET, PISTON	1							
14	2	172958-72811-1	TUBE, HITCH	1							
14-1	2	172958-72811-N	TUBE, HITCH	1						S	
(A=M56001)											
16	3	172958-72970	BUSH	2							
17	2	172958-72860	HEAD ASSY	1							
19	3	24550-025150	BUSH, 25X15	1							
20	2	172958-72890	PISTON	1							
21	2	172958-72950	O-RING	1							
22	2	172958-72960	O-RING	1							
23	2	172958-72982-2	VALVE, CHECK	1							
23-1	2	172958-72983	VALVE ASSY, OPERATE	1						F	1
(A=MZZZZZ)											
23-2	2	172958-72983-N	VALVE ASSY, OPERATE	1						S	
(A=M56001)											
24	2	23871-005000	PLUG, R005	2							
25	2	24761-050000	NIPPLE, GREASE C	1							
26	2	26450-060352	BOLT, M6X 35	4							
26-1	2	26450-060302	BOLT, M6X 30	4						S	
(A=MZZZZZ)											

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

Fig.54. TRAVEL MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-73701	MOTOR ASSY, TRAVEL	2							
2	2	1A6240-37360	PLUG	4							
3	2	172147-70220	PLUG	4							
4	2	172148-70340	ORIFICE	8							
5	2	172A46-73540	PIN	4							
6	2	172122-70460	SEAT, SPRING	4							
7	2	172147-70500	PLUG	2							
8	2	172A46-73530	BOLT, SOCKET HEAD	12							
9	2	23871-020000	PLUG, R02	4							
10	2	172168-71951	SPRING	4							
11	2	172A46-73510	GEAR, REDUCTION	2							
12	3	172141-70020-Z	SEAL, FLOATING	2							
13	3	172141-70030	BEARING, ANGULAR	2							
14	3	172141-70041	NUT, RING	2							
15	3	172141-70100	PLATE, THRUST	2							
16	3	172141-70110	SCREW	8							
17	3	172141-70230	WIRE	2							
18	3	172148-70301	PLUG	4							
19	3	172122-70350	BALL, STEEL	264							
21	3	172450-73330	PLUG	4							
22	3	172450-73350	GEAR, PLANETARY	8							
23	3	172450-73360	BEARING, NEEDLE	8							
24	3	172450-73370	RACE, INNER	8							
25	3	172450-73380	WASHER, THRUST	8							
26	3	172450-73390	GEAR, SUN	2							
27	3	172450-73400	HOLDER	2							
28	3	172450-73410	GEAR, PLANETARY	6							
29	3	172450-73420	BEARING, NEEDLE	6							
30	3	172122-73430	PLUG	4							
31	3	172450-73430	RACE, INNER	6							
32	3	172450-73440	GEAR, DRIVE	2							
33	3	172450-73450	PLATE, THRUST	2							
34	3	172450-73460	PLATE, THRUST	2							
35	3	172450-73470	PLATE, THRUST	2							
36	3	172450-73480	COVER	2							
37	3	22242-000350	RING, 35	2							
38	3	24315-000110	O-RING, 1BP11.0	4							
39	3	24325-001550	O-RING, 1BG155.0	2							
40	2	172638-73330	PLATE, VALVE	2							
41	2	172A46-73520	SPRING	2							
42	2	172122-73470	PIN	2							
43	2	172450-73490	SEAL, OIL	2							
44	2	172450-73501	PLATE, SWASH	2							
45	2	172450-73510	BALL, STEEL	4							
46	2	172450-73551	PISTON ASSY	4							
47	2	172460-73580	VALVE ASSY	2							
49	3	24315-000120	O-RING, 1BP12.0	6							
50	3	24315-000140	O-RING, 1BP14.0	4							
51	2	172183-73670	SHAFT	2							
52	2	172183-73770	PLUG	4							
53	2	172458-73770	SPRING	4							

N:Old Yes New, Q:Old No New, R:Old Yes New, S:Old No New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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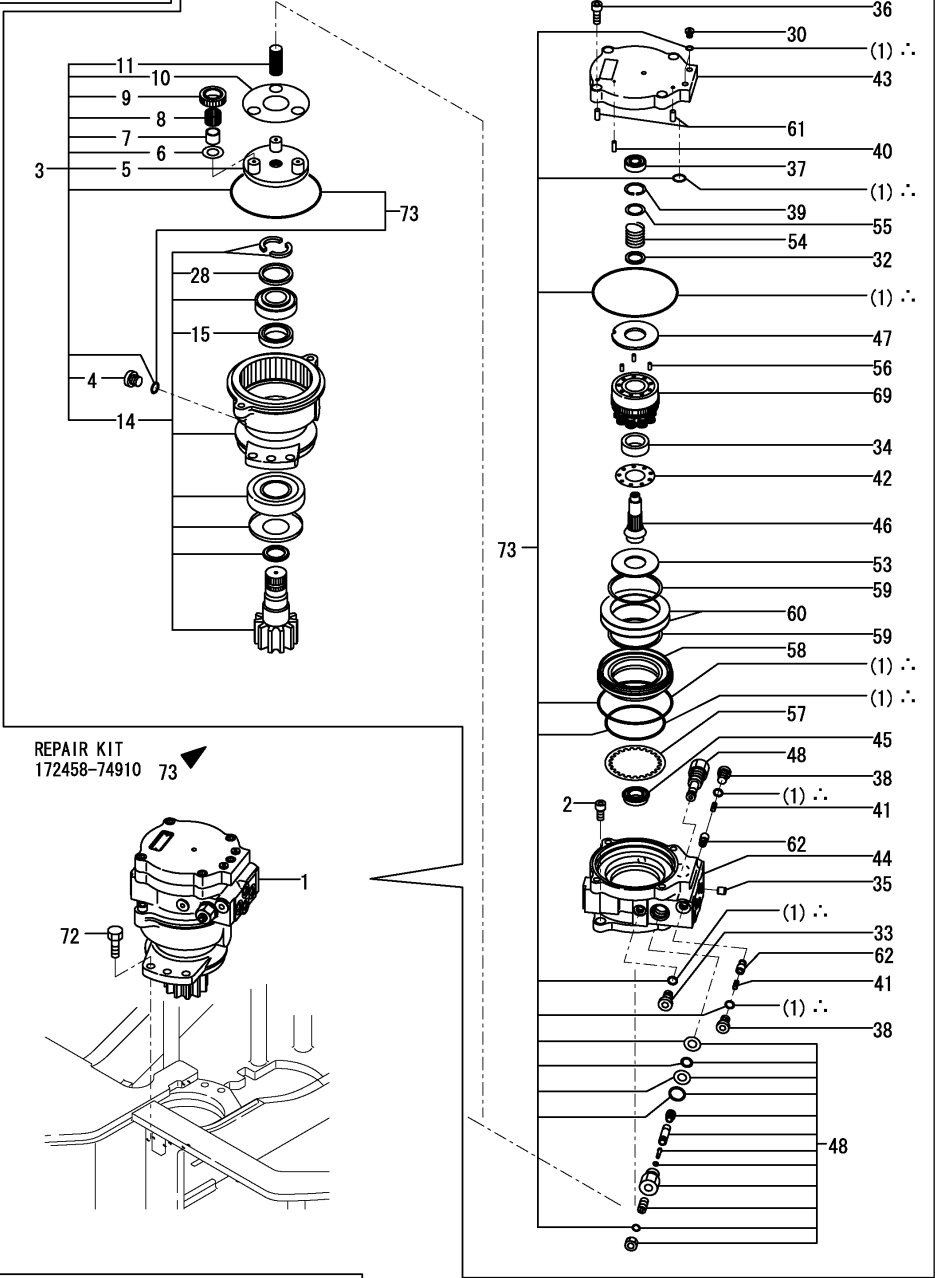
[illegible]

Fig.55. TURNING MOTOR

(A)=VIO30-5B P(KR)
(B)=
(C)=

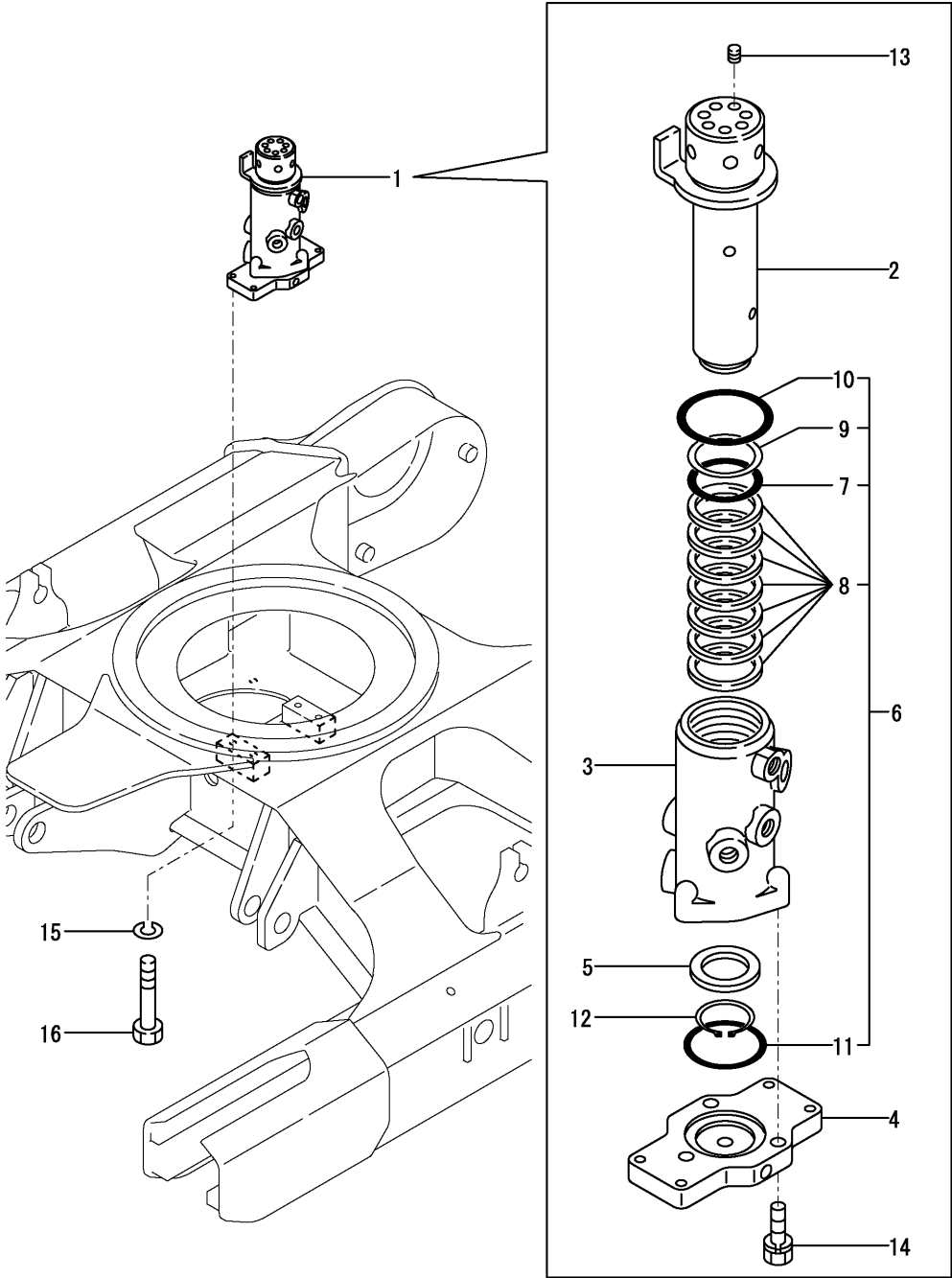
(D)=
(E)=
(F)=

P/C NEWS No:Y00S5290-1
PUBLISHED: 2008/05



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-73712	MOTOR ASSY, SWING	1							
2	2	172124-70390	BOLT, SOCKET	2							
3	2	172458-73400	GEAR ASSY, REDUCTION	1							
4	3	1A6240-37360	PLUG	1							
5	3	172450-73830	COLLAR	1							
6	3	172450-73850	WASHER, THRUST	3							
7	3	172450-73860	RACE, INNER	3							
8	3	172450-73870	BEARING, NEEDLE	3							
9	3	172458-73970	GEAR, PLANETARY	3							
10	3	172458-73980	PLATE, THRUST	1							
11	3	172458-73990	GEAR, DRIVE	1							
14	3	172458-74350	HOUSING ASSY	1							
15	4	172450-73751	SEAL, OIL	1							
28	4	172458-73960	COLLAR	1							
30	2	1A6240-37360	PLUG	2							
32	2	172147-70280	COLLAR	1							
33	2	172148-70301	PLUG	1							
34	2	172147-70330	HOLDER, RETAINER	1							
35	2	172124-70380	ORIFICE	1							
36	2	172124-70390	BOLT, SOCKET	5							
37	2	172147-70390	BEARING, BALL	1							
38	2	172147-70500	PLUG	2							
39	2	172122-70630	RING, SNAP	1							
40	2	172122-73470	PIN	1							
41	2	172638-73470	SPRING	2							
42	2	172423-73530	PLATE, RETAINER	1							
43	2	172459-73740	COVER	1							
44	2	172A45-73730	CASE	1							
45	2	172458-74310	BALL BEARING	1							
46	2	172458-74320	SHAFT	1							
47	2	172458-74330	PLATE, VALVE	1							
48	2	172458-74340	RELIEF VALVE	2							
53	2	172450-77050	PLATE, THRUST	1							
54	2	172450-77070	SPRING	1							
55	2	172450-77080	WASHER	1							
56	2	172450-77090	PIN	3							
57	2	172450-77110	DISK	1							
58	2	172450-77120	PISTON, BRAKE	1							
59	2	172450-77130	SEAT, SPRING	2							
60	2	172450-77140	SPRING ASSY, DISK	1							
61	2	172450-77170	PIN	2							
62	2	172450-77190	VALVE, CHECK	2							
69	2	172450-77220	BLOCK KIT, CYLINDER	1							
72	1	172455-29140	BOLT	6							
73	1	172458-74910	REPAIR KIT	1							

Fig.56. SWIVEL JOINT

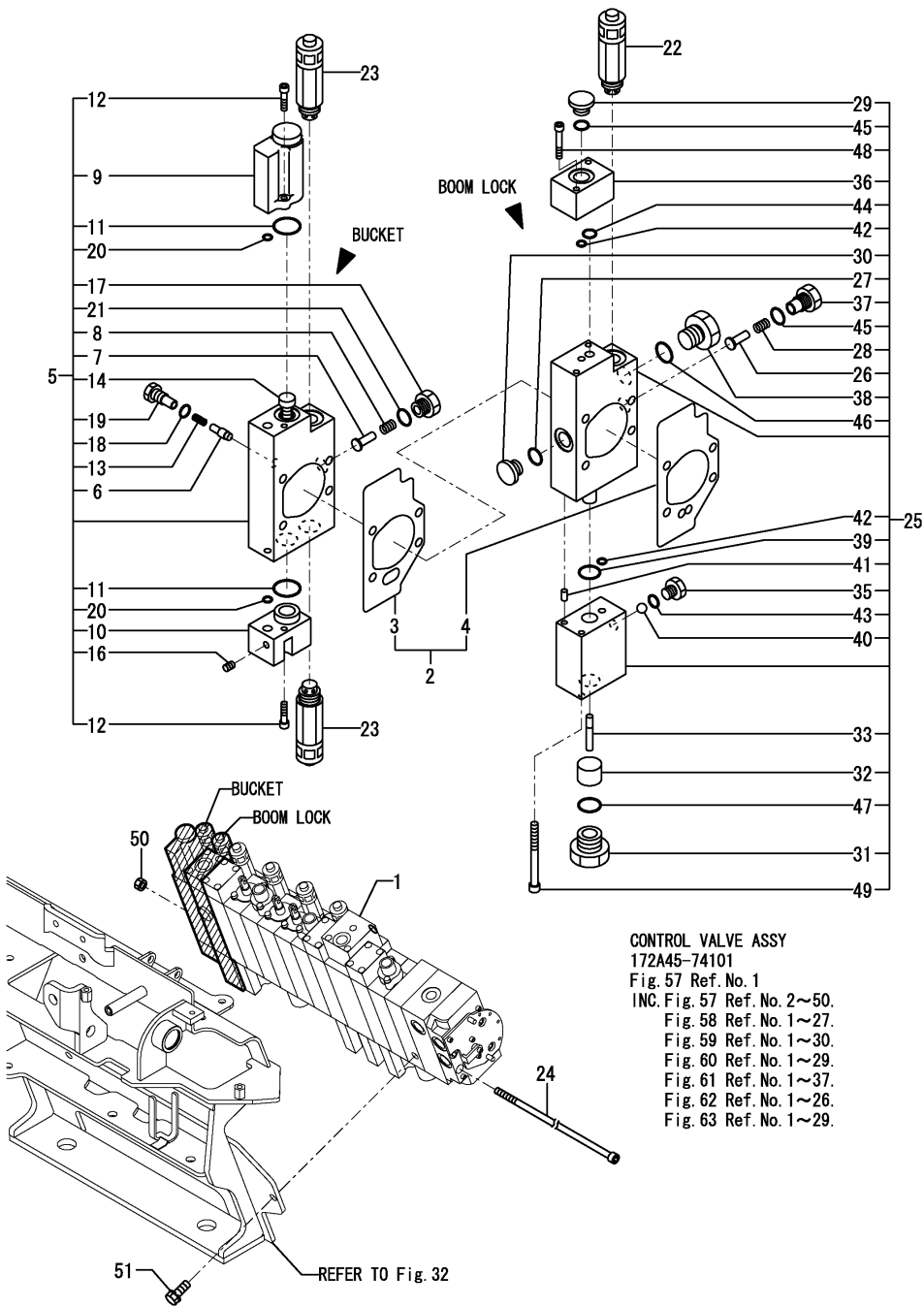


(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-73803	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	172447-73840	SEAL	7							
9	3	172148-73870	RING, BUCK 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	22217-100000	WASHER, SPRING 10	4							
16	1	26116-100652	BOLT, M10X 65 PLATED	4							

Fig.57. CONTROL VALVE(1/7)

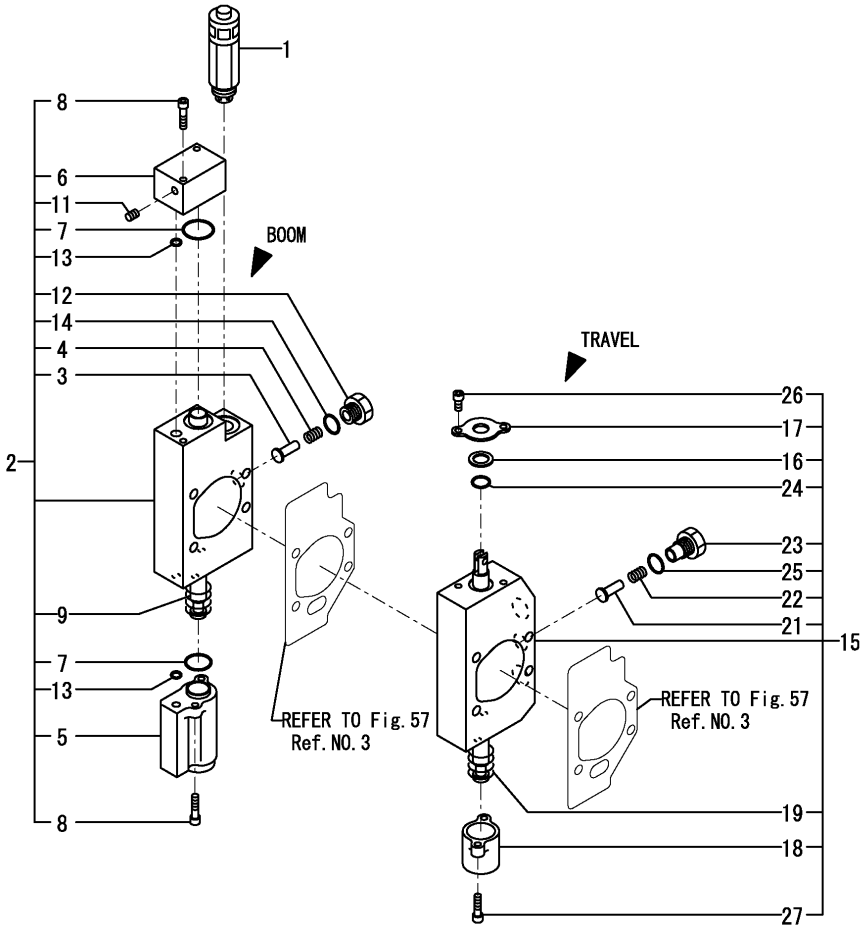


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A45-74101	VALVE ASSY, CONTROL	1							
1-1	1	172A45-74102	VALVE ASSY, CONTROL	1							N
(A=M/#XXXXX)											
2	2	172A46-74330	GASKET SET	1							
3	3	172A47-75430	GASKET	11							
4	3	172A47-75440	GASKET	1							
5	2	172A46-74370	SECTION, BUCKET	1							
6	3	172499-70180	VALVE ASSY, REVERSE	1							
7	3	172458-74150	VALVE, REVERSE	1							
8	3	172458-74160	SPRING, VALVE	1							
9	3	172A47-74220	COVER, PILOT	1							
10	3	172A47-74230	COVER, PILOT	1							
11	3	172458-74230	O-RING	2							
12	3	172458-74260	BOLT	4							
13	3	172173-74280	SPRING	1							
14	3	172A46-74310	SPOOL ASSY, BUCKET	1							
16	3	172458-74460	PLUG	1							
17	3	172458-74630	STAY, VALVE	1							
18	3	172A47-74950	O-RING	1							
19	3	172A47-74970	STAY, VALVE	1							
20	3	24311-000060	O-RING, 1AP6.0	2							
21	3	24315-000110	O-RING, 1BP11.0	1							
22	2	172456-74440	VALVE, RELIEF	1							
23	2	172458-74710	VALVE, RELIEF	2							
24	2	172A47-75450	BOLT	4							
25	2	172A47-75610	VALVE ASSY, LOCK	1							
26	3	172499-70180	VALVE ASSY, REVERSE	1							
27	3	172A47-74270	O-RING	1							
28	3	172173-74280	SPRING	1							
29	3	172183-74350	PLUG	1							
30	3	172A47-74460	PLUG	1							
31	3	172A47-74560	BUSH	1							
32	3	172A47-74570	PISTON	1							
33	3	172A47-74580	PISTON	1							
35	3	172A47-74920	HOLDER, BALL	1							
36	3	172A47-74930	BODY, DISCHARGE	1							
37	3	172A47-74970	STAY, VALVE	1							
38	3	172A47-75620	STAY, VALVE	1							
39	3	172A47-75680	O-RING	1							
40	3	172A47-75690	BALL, STEEL	1							
41	3	22312-050100	PIN, PARALLEL M5X10	2							
42	3	24311-000060	O-RING, 1AP6.0	2							
43	3	24315-000080	O-RING, 1BP8.0	1							
44	3	24315-000100	O-RING, 1BP10.0	1							
45	3	24315-000110	O-RING, 1BP11.0	2							
46	3	24315-000140	O-RING, 1BP14.0	1							
47	3	24315-000180	O-RING, 1BP18.0	1							
48	3	26450-050302	BOLT, M5X 30	2							
49	3	26450-060652	BOLT, M6X 65	2							
50	2	26716-080002	NUT, M8	4							
51	1	26013-100162	BOLT, M10X 16	3							

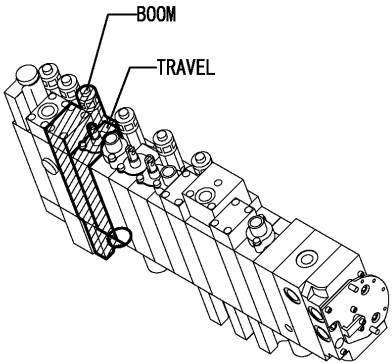
Fig.58. CONTROL VALVE(2/7)

(A)=VIO30-5B P(KR)
(B)=
(C)=

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



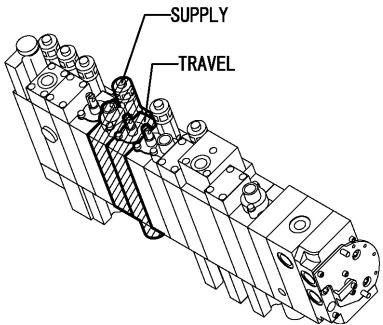
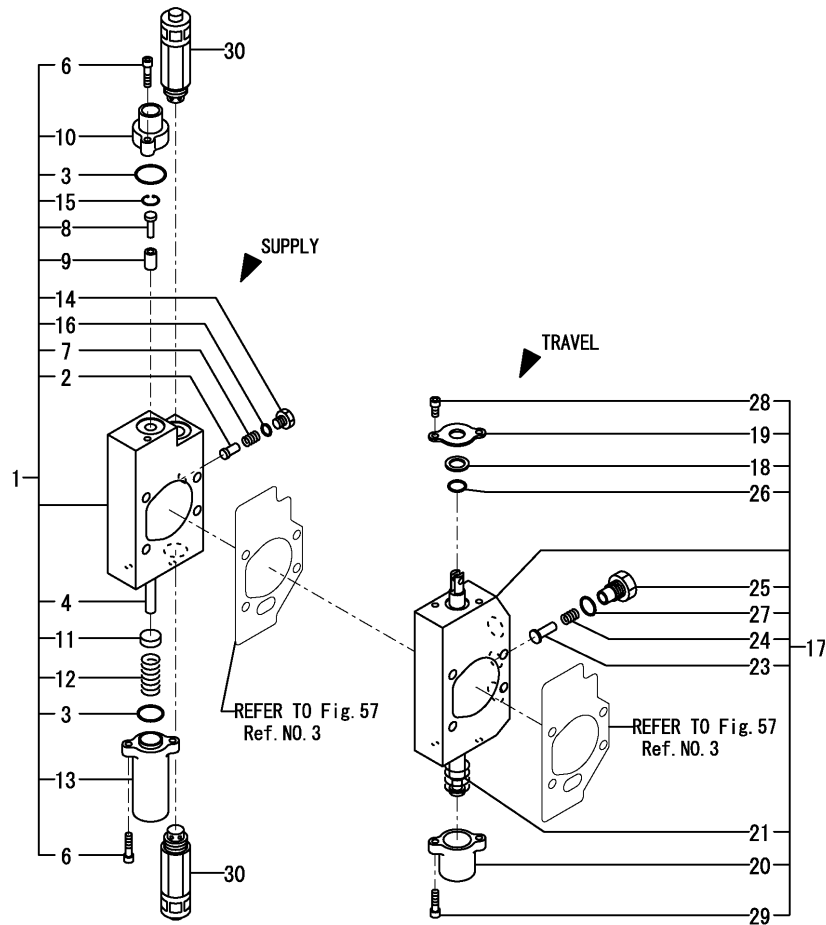
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172447-74221	VALVE ASSY, RELIFE	1							
2	2	172A46-74391	SECTION, BOOM	1							
3	3	172458-74150	VALVE, REVERSE	1							
4	3	172458-74160	SPRING, VALVE	1							
5	3	172A47-74220	COVER, PILOT	1							
6	3	172A47-74230	COVER, PILOT	1							
7	3	172458-74230	O-RING	2							
8	3	172458-74260	BOLT	4							
9	3	172A46-74282	SPOOL ASSY, BOOM	1							
11	3	172458-74460	PLUG	1							
12	3	172458-74630	STAY, VALVE	1							
13	3	24311-000060	O-RING, 1AP6.0	2							
14	3	24315-000110	O-RING, 1BP11.0	1							
15	2	172A46-74400	SECTION, TRAVEL	1							
15-1	2	172A46-74401	SECTION, TRAVEL	1							N
(A=M/#XXXXX)											
16	3	172458-74130	WIPER, DUST	1							
17	3	172458-74140	RETAINER, SEAL	1							
18	3	172458-74170	CAP, SPRING	1							
18-1	3	172A78-74170	CAP, SPRING	1							N
(A=M/#XXXXX)											
19	3	172A46-74230	SPOOL ASSY, TRAVEL	1							
21	3	172458-74290	VALVE, REVERSE	1							
22	3	172458-74360	SPRING, VALVE	1							
23	3	172458-74640	STAY, VALVE	1							
24	3	24311-000120	O-RING, 1AP12.0	1							
25	3	24315-000110	O-RING, 1BP11.0	1							
26	3	26450-050102	BOLT, M5X 10	2							
27	3	26450-050182	BOLT, M5X 18	2							



CONTROL VALVE ASSY
172A45-74101
Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~50.
Fig. 58 Ref. No. 1~27.
Fig. 59 Ref. No. 1~30.
Fig. 60 Ref. No. 1~29.
Fig. 61 Ref. No. 1~37.
Fig. 62 Ref. No. 1~26.
Fig. 63 Ref. No. 1~29.

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

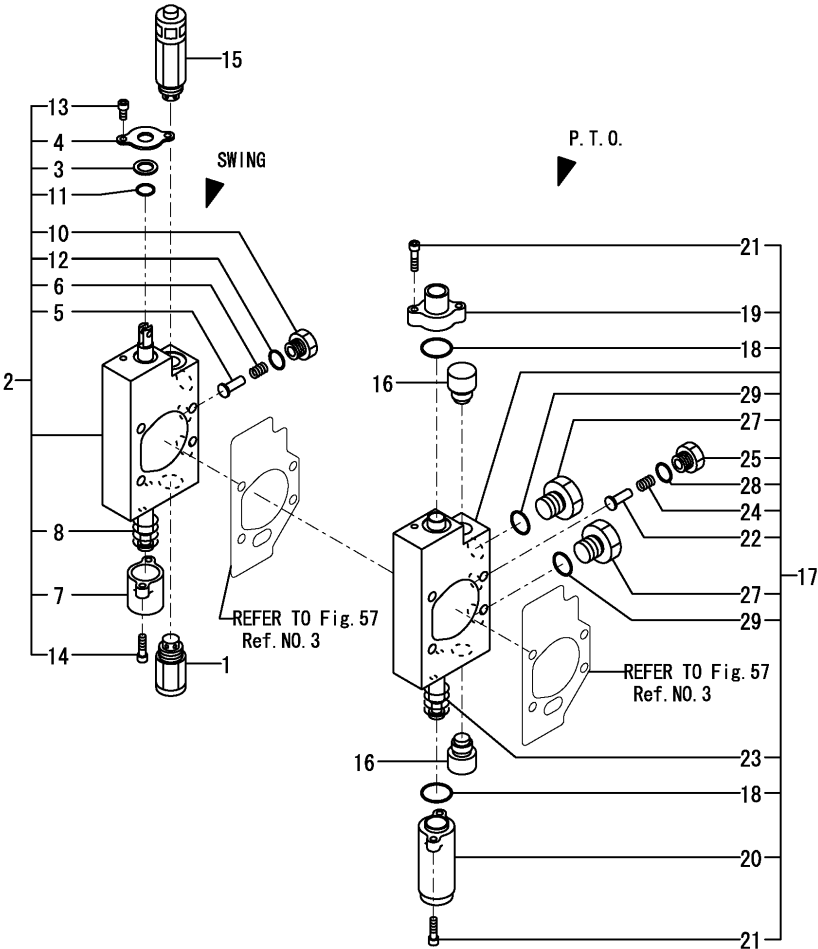


CONTROL VALVE ASSY
172A45-74101
Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~50.
Fig. 58 Ref. No. 1~27.
Fig. 59 Ref. No. 1~30.
Fig. 60 Ref. No. 1~29.
Fig. 61 Ref. No. 1~37.
Fig. 62 Ref. No. 1~26.
Fig. 63 Ref. No. 1~29.

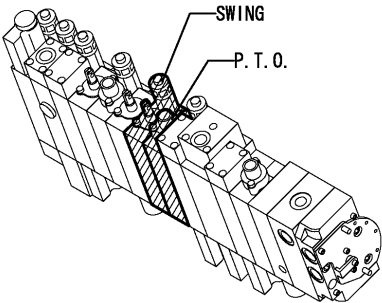
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A46-74410	VALVE	1							
2	3	172499-70180	VALVE ASSY, REVERSE	1							
3	3	172458-74230	O-RING	2							
4	3	172A46-74250	SPOOL ASSY, INLET	1							
6	3	172458-74260	BOLT	4							
7	3	172173-74280	SPRING	1							
8	3	172A47-74360	FILTER	1							
9	3	172A47-74370	PISTON	1							
10	3	172A47-74380	COVER, PILOT	1							
11	3	172458-74530	SEAT, SPRING	1							
12	3	172458-74540	SPRING, RETURN	1							
13	3	172458-74550	COVER, PILOT	1							
14	3	172458-74670	PLUG	1							
15	3	172A47-74980	CIRCLIP	1							
16	3	24315-000080	O-RING, 1BP8.0	1							
17	2	172A46-74420	SECTION, TRAVEL	1							
17-1	2	172A46-74421	SECTION, TRAVEL	1							N
(A=M/#XXXXX)											
18	3	172458-74130	WIPER, DUST	1							
19	3	172458-74140	RETAINER, SEAL	1							
20	3	172458-74170	CAP, SPRING	1							
20-1	3	172A78-74170	CAP, SPRING	1							N
(A=M/#XXXXX)											
21	3	172A46-74230	SPOOL ASSY, TRAVEL	1							
23	3	172458-74290	VALVE, REVERSE	1							
24	3	172458-74360	SPRING, VALVE	1							
25	3	172458-74640	STAY, VALVE	1							
26	3	24311-000120	O-RING, 1AP12.0	1							
27	3	24315-000110	O-RING, 1BP11.0	1							
28	3	26450-050102	BOLT, M5X 10	2							
29	3	26450-050182	BOLT, M5X 18	2							
30	2	172458-74680	VALVE, RELIEF	2							
30-1	2	172A85-74680	VALVE, RELIEF	2							N
(A=M/#XXXXX)											

(A)=VIO30-5B P(KR)
(B)=
(C)=

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



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

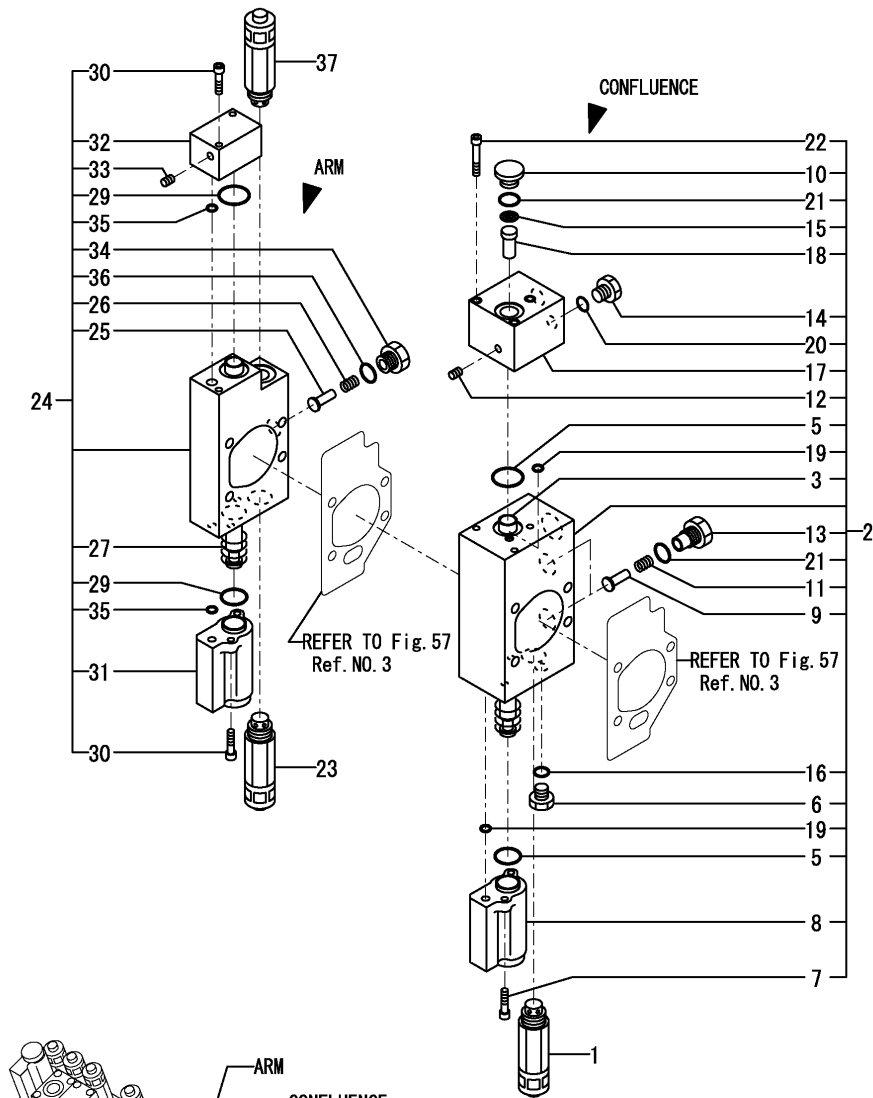


CONTROL VALVE ASSY
172A45-74101

Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~50.
Fig. 58 Ref. No. 1~27.
Fig. 59 Ref. No. 1~30.
Fig. 60 Ref. No. 1~29.
Fig. 61 Ref. No. 1~37.
Fig. 62 Ref. No. 1~26.
Fig. 63 Ref. No. 1~29.

(A)=VIO30-5B P(KR)
(B)=
(C)=

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

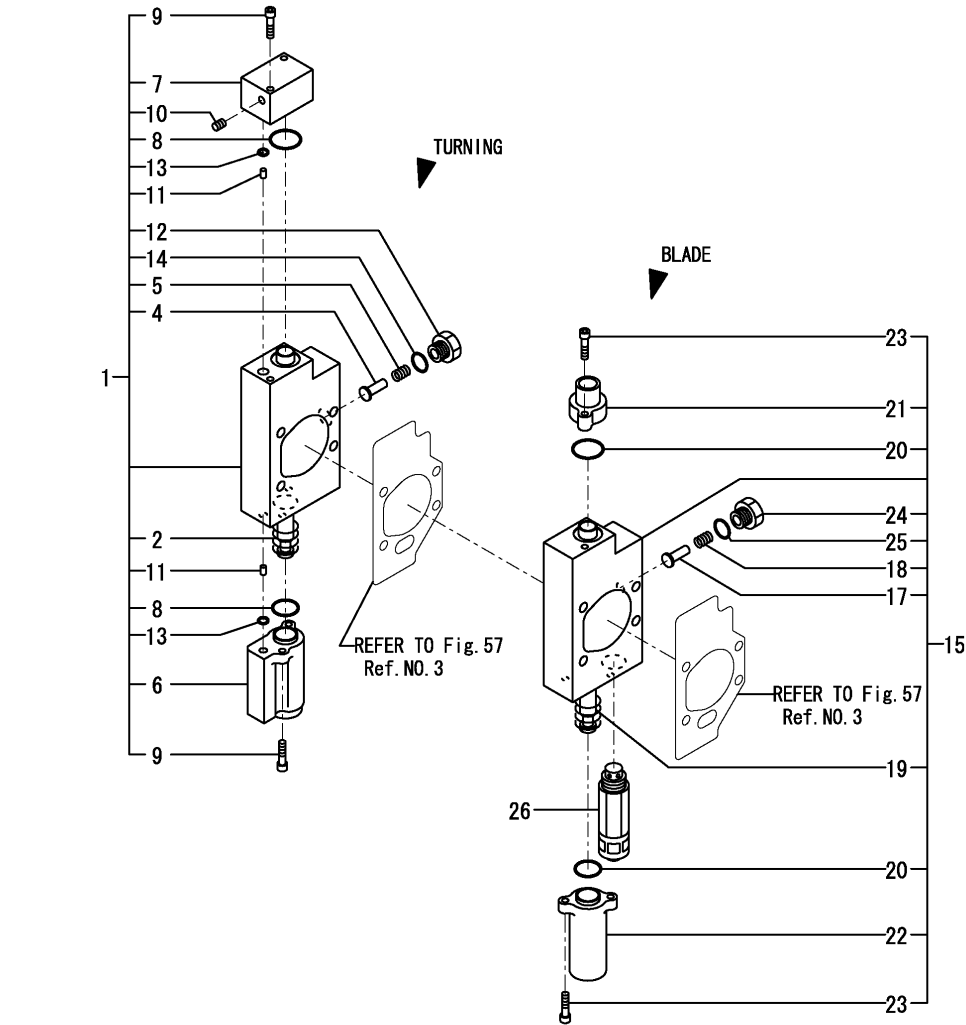


CONTROL VALVE ASSY
172A45-74101

Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~50.
Fig. 58 Ref. No. 1~27.
Fig. 59 Ref. No. 1~30.
Fig. 60 Ref. No. 1~29.
Fig. 61 Ref. No. 1~37.
Fig. 62 Ref. No. 1~26.
Fig. 63 Ref. No. 1~29.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A45-74130	VALVE ASSY, RELIEF	1							
2	2	172A45-74140	SECTION ASSY	1							
3	3	172A45-74150	SPOOL ASSY	1							
5	3	172458-74230	O-RING	2							
6	3	172A47-74260	PLUG	1							
7	3	172458-74260	BOLT	2							
8	3	172A47-74280	COVER, PILOT	1							
9	3	172458-74290	VALVE, REVERSE	2							
10	3	172183-74350	PLUG	1							
11	3	172458-74360	SPRING, VALVE	2							
12	3	172458-74460	PLUG	2							
13	3	172458-74640	STAY, VALVE	2							
14	3	172458-74670	PLUG	1							
15	3	172499-74860	FILTER	1							
16	3	172A47-74950	O-RING	1							
17	3	172A47-74960	BODY, PILOT	1							
18	3	172499-74960	PLUG	1							
19	3	24311-000060	O-RING, 1AP6.0	2							
20	3	24315-000080	O-RING, 1BP8.0	1							
21	3	24315-000110	O-RING, 1BP11.0	3							
22	3	26450-050452	BOLT, M5X 45	3							
23	2	172447-74221	VALVE ASSY, RELIFE	1							
24	2	172A45-74440	SECTION, ARM	1							
25	3	172458-74150	VALVE, REVERSE	1							
26	3	172458-74160	SPRING, VALVE	1							
27	3	172A45-74170	SPOOL ASSY, ARM	1							
29	3	172458-74230	O-RING	2							
30	3	172458-74260	BOLT	4							
31	3	172A47-74280	COVER, PILOT	1							
32	3	172A47-74300	COVER, PILOT	1							
33	3	172458-74460	PLUG	1							
34	3	172458-74630	STAY, VALVE	1							
35	3	24311-000060	O-RING, 1AP6.0	2							
36	3	24315-000110	O-RING, 1BP11.0	1							
37	2	172458-74710	VALVE, RELIEF	1							

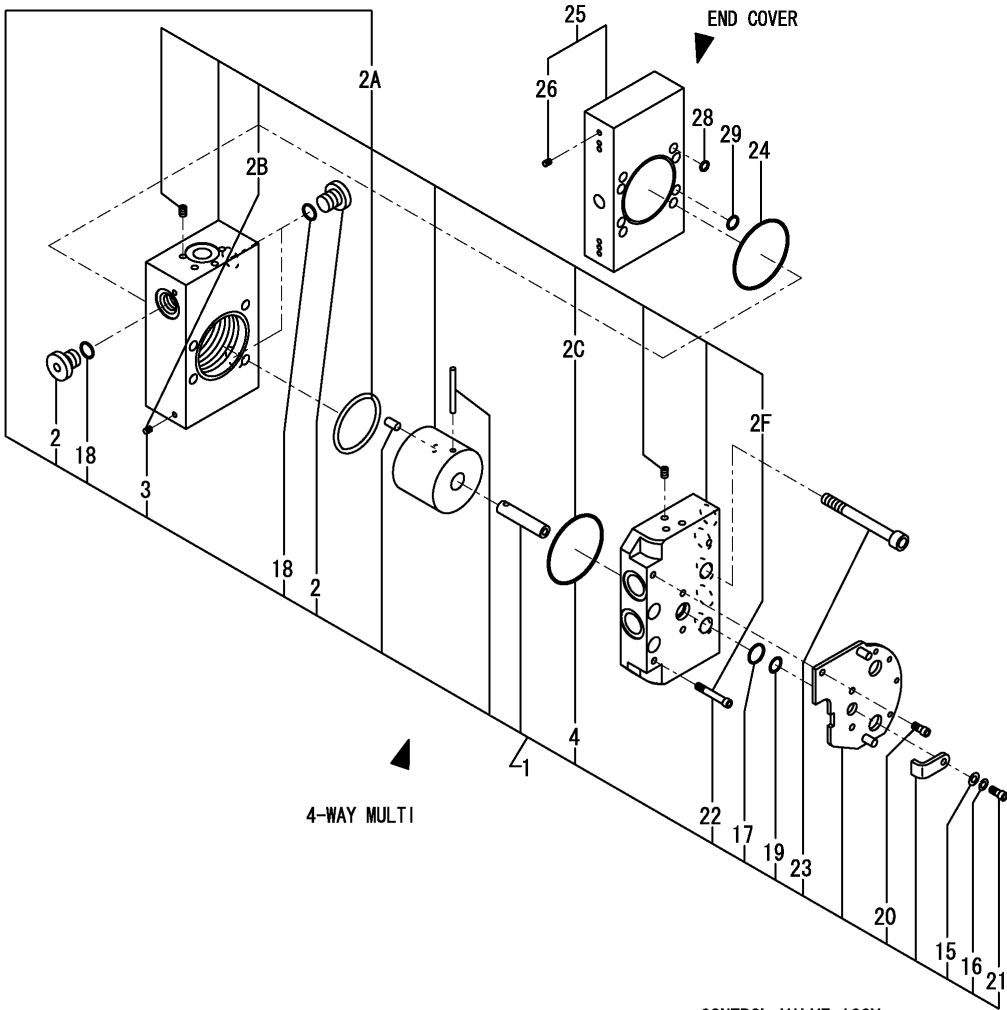
Fig.62. CONTROL VALVE(6/7)



CONTROL VALVE ASSY
172A45-74101
Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~50.
Fig. 58 Ref. No. 1~27.
Fig. 59 Ref. No. 1~30.
Fig. 60 Ref. No. 1~29.
Fig. 61 Ref. No. 1~37.
Fig. 62 Ref. No. 1~26.
Fig. 63 Ref. No. 1~29.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172A46-74461	SECTION, SWING	1							
2	3	172A46-74131	SPOOL ASSY, SWING	1							
4	3	172458-74150	VALVE, REVERSE	1							
5	3	172458-74160	SPRING, VALVE	1							
6	3	172A47-74220	COVER, PILOT	1							
7	3	172A47-74230	COVER, PILOT	1							
8	3	172458-74230	O-RING	2							
9	3	172458-74260	BOLT	4							
10	3	172458-74460	PLUG	1							
11	3	172A46-74480	THROTTLE	2							
12	3	172458-74630	STAY, VALVE	1							
13	3	24311-000060	O-RING, 1AP6.0	2							
14	3	24315-000110	O-RING, 1BP11.0	1							
15	2	172A47-75591	SECTION, BLADE	1							
17	3	172458-74150	VALVE, REVERSE	1							
18	3	172458-74160	SPRING, VALVE	1							
19	3	172A47-75671	SPOOL ASSY, BLADE	1							
20	3	172458-74230	O-RING	2							
21	3	172458-74240	COVER, PILOT	1							
22	3	172458-74250	COVER, PILOT	1							
23	3	172458-74260	BOLT	4							
24	3	172458-74630	STAY, VALVE	1							
25	3	24315-000110	O-RING, 1BP11.0	1							
26	2	172458-74700	VALVE, RELIEF	1							

Fig.63. CONTROL VALVE(7/7)



CONTROL VALVE ASSY
172A45-74101
Fig. 57 Ref. No. 1
INC. Fig. 57 Ref. No. 2~50.
Fig. 58 Ref. No. 1~27.
Fig. 59 Ref. No. 1~30.
Fig. 60 Ref. No. 1~29.
Fig. 61 Ref. No. 1~37.
Fig. 62 Ref. No. 1~26.
Fig. 63 Ref. No. 1~29.

(A)=VIO30-5B P(KR)
(B)=
(C)=

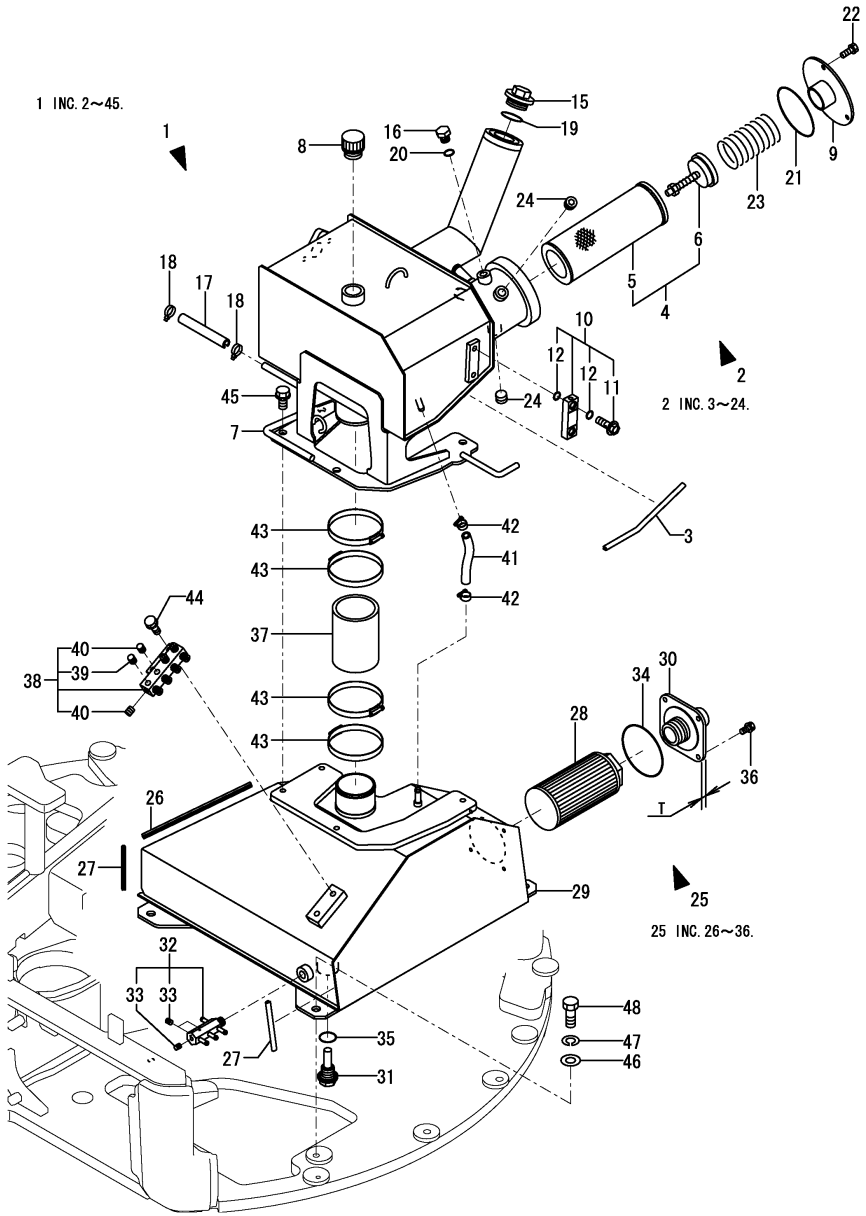
(D)=
(E)=
(F)=

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

Fig.64. HYD.OIL TANK

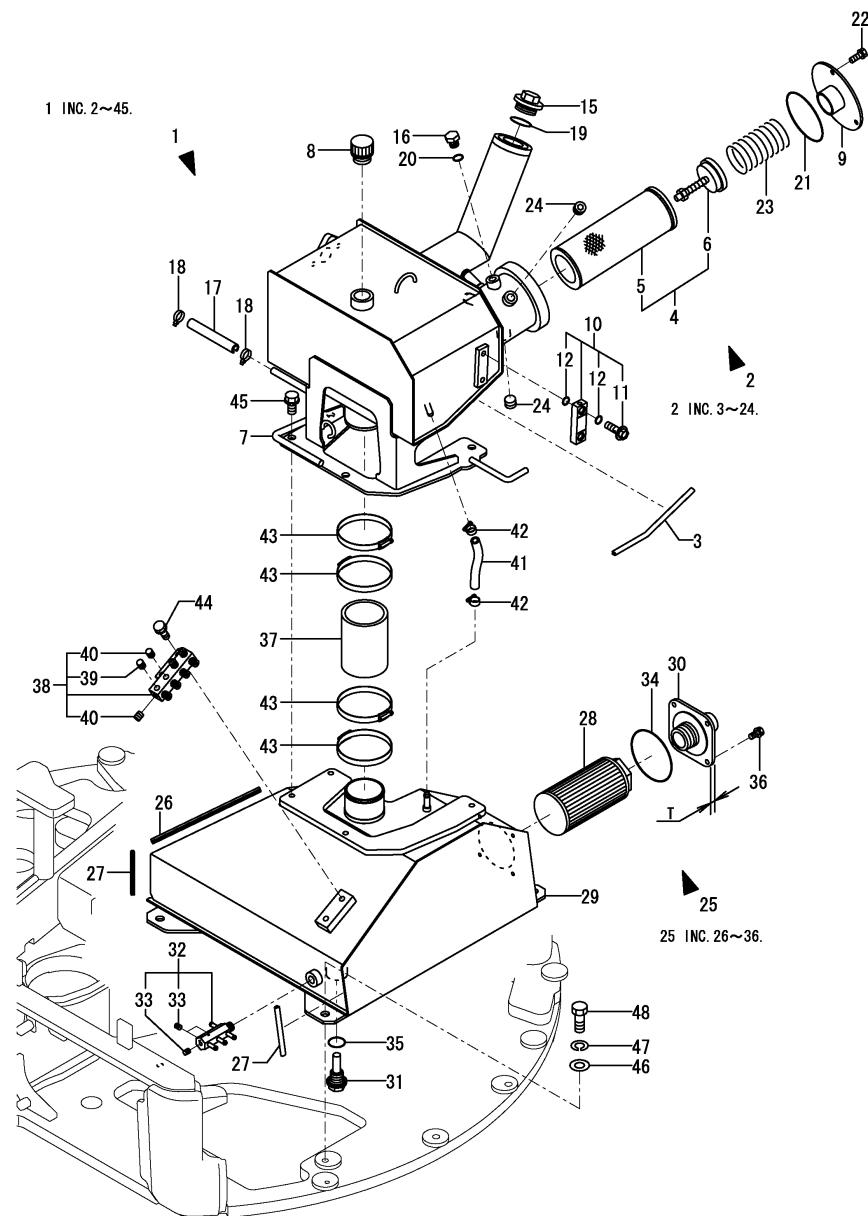
(A)=VIO30-5B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A46-75100	TANK ASSY, OIL	1							
2	2	772A46-75200	TANK ASSY, OIL	1							
3	3	172434-61190	TRIM	1							
4	3	172175-73700	FILTER ASSY, RETURN	1							
5	3	172175-73710	ELEMENT, FILTER	1							
6	3	172141-73770	VALVE ASSY, BYPASS	1							
7	3	172A46-75201	TANK ASSY, RESERVOIR	1							
7-1	3	172A46-75202	TANK ASSY, RESERVOIR	1							N
(A=M/#XXXXXX)											
8	3	172446-75250	CAP, RESERVER	1							
9	3	172A47-75340	COVER, TANK	1							
10	3	172447-75600	GAUGE ASSY	1							
11	4	172455-75290	BOLT	2							
12	4	172455-75300	O-RING	4							
15	3	172116-75850-B	PLUG, OIL FEED	1							
16	3	172165-76590	PLUG	1							
17	3	172A46-79200	HOSE	1							
18	3	172122-79930	CLAMP, HOSE	2							
19	3	24311-000380	O-RING, 1AP38.0	1							
20	3	24315-000110	O-RING, 1BP11.0	1							
21	3	24321-001050	O-RING, 1AG105.0	1							
22	3	26013-080202	BOLT, M8X 20	3							
23	3	933152-02710	SPRING, CLUTCH	1							
24	3	23871-030000	PLUG, R03	2							
25	2	772A46-75110	TANK ASSY, RESERVOIR	1							
26	3	172183-05330	TRIM	1							
27	3	172458-18850	TRIM	2							
28	3	172146-73730	FILTER, SUCTION	1							
29	3	172A46-75100	TANK ASSY, RESERVOIR	1							
30	3	172183-75410	FLANGE, SUCTION	1							
30-1	3	172A46-75500	FLANGE, SUCTION	1						F	1
(A=M53656)											
31	3	172187-75500	PLUG	1							
32	3	172A47-76300	BLOCK, DRAIN	1							
33	4	23871-020000	PLUG, R02	3							
34	3	24321-001050	O-RING, 1AG105.0	1							
35	3	24341-000300	O-RING, 1AS30.0	1							
36	3	26013-080162	BOLT, M8X 16	4							
36-1	3	26014-080252	BOLT, M8X 25	4							S
(A=M53656)											
37	2	172A46-75300	HOSE, RESERVOIR	1							
38	2	172A47-76310	BLOCK, PILOT	1							
39	3	23871-010000	PLUG, R01	1							
40	3	23871-020000	PLUG, R02	2							
41	2	172A46-79120	HOSE	1							
42	2	23001-016000	CLAMP, HOSE 16	2							
43	2	23001-102000	CLAMP, HOSE 102	4							
44	2	26013-100162	BOLT, M10X 16	2							
44-1	2	26013-100202	BOLT, M10X 20	2							N
(A=MZZZZZ)											
45	2	26013-120252	BOLT, M12X 25	3							

Remarks
(1)T=REF.NO.30 6MM, NO.30-1 12MM.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.36-1.

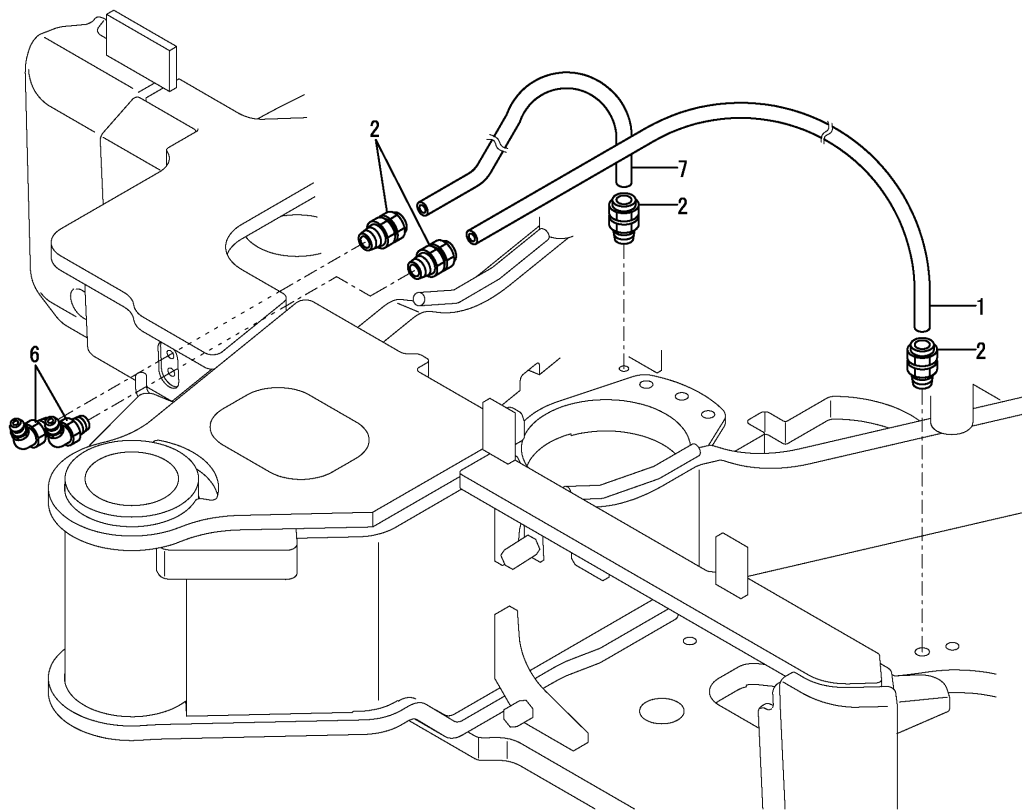


				(A)=VIO30-5B P(KR)	(D)=							
				(B)=	(E)=							
				(C)=	(F)=							
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
46	1	22137-140000	WASHER, 14	3								
47	1	22217-140000	WASHER, SPRING 14	3								
48	1	26116-140352	BOLT. M14X 35 PLATED	3								

Remarks
(1)T=REF.NO.30 6MM, NO.30-1 12MM.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.36-1.

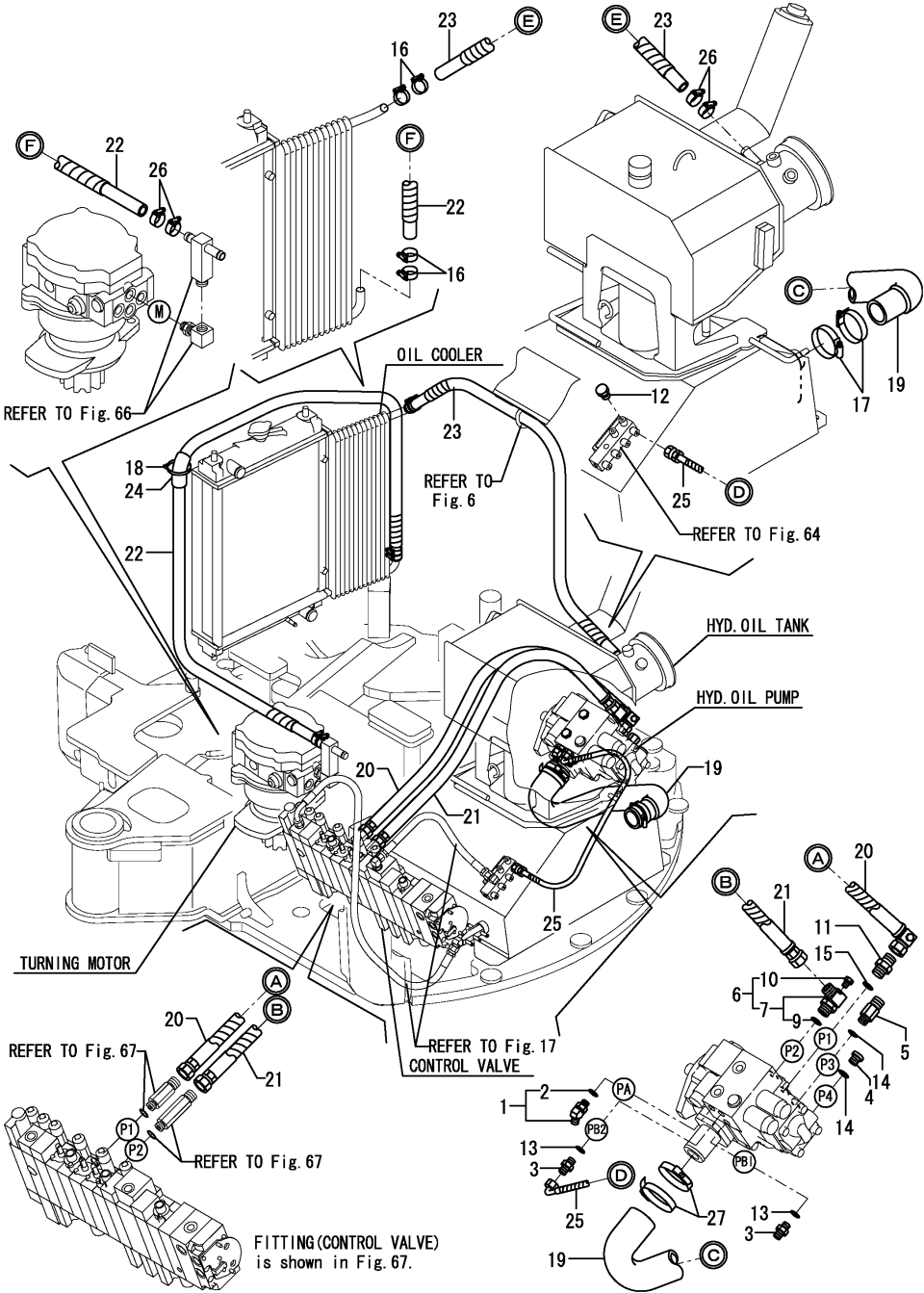
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.34. GREASING



No.	Lev.	Parts No.	Description	(A)=VIO30-5B P(KR)		(D)=		(E)=		I	R
				(B)=	(C)=	(C)	(D)	(E)	(F)		
1	1	172A46-77800	HOSE			1					
2	1	172A47-77820	JOINT, GREASE			4					
6	1	24761-040000	NIPPLE, GREASE B			2					
7	1	172A52-77800	HOSE			1					

Fig.65. HYD.OIL PIPING(TANK - PUMP, CONTROL VALVE)



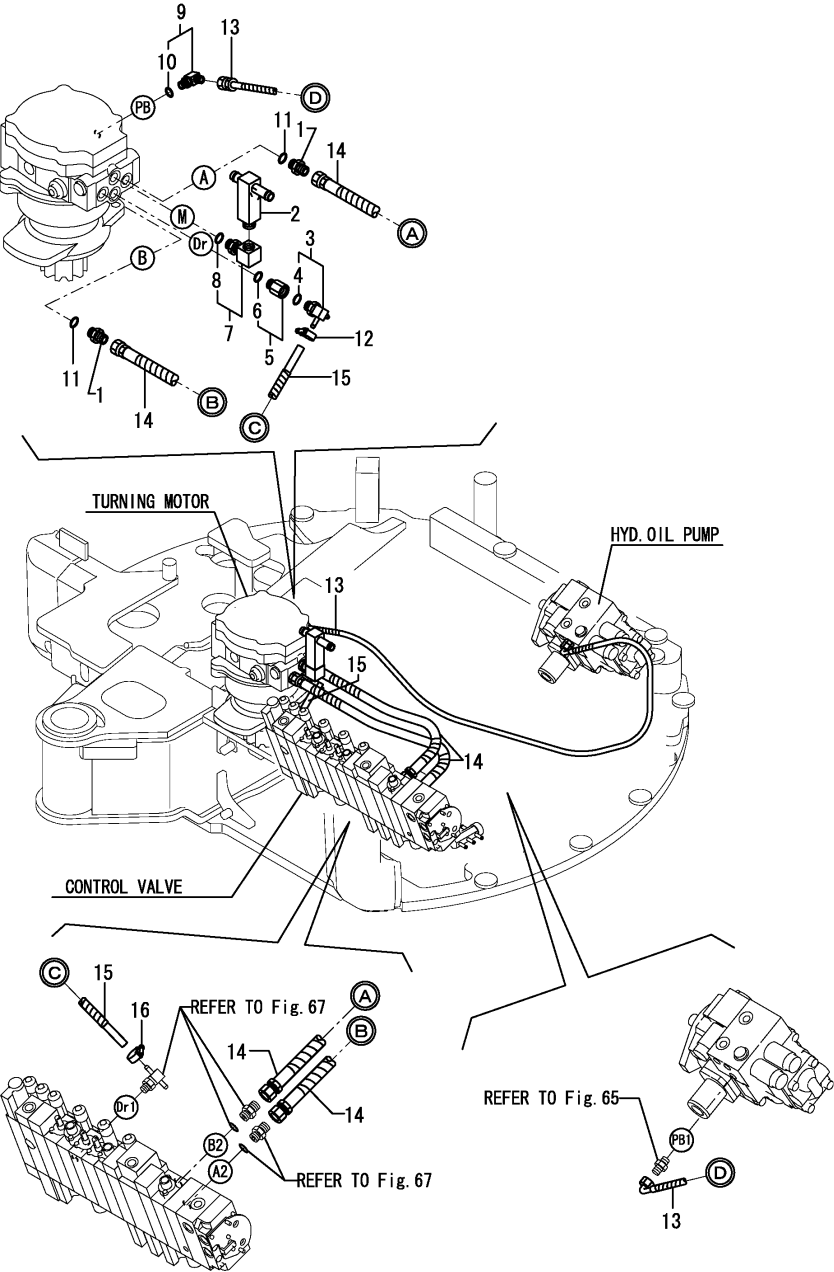
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-76101	CONNECTOR ASSY	1							
2	2	24315-000110	O-RING, 1BP11.0	1							
3	1	172123-76121	ADAPTER	2							
4	1	172183-76180	PLUG	1							
5	1	172422-76180	CONNECTOR, PF3/8X1/2	1							
6	1	172460-76560	CONNECTOR, PF1/2	1							
7	2	172165-76230	CONNECTOR ASSY,PF1/2	1							
9	3	24315-000180	O-RING, 1BP18.0	1							
10	2	172460-76570	PLUG, SCREW	1							
11	1	172112-77361	CONNECTOR	1							
12	1	1E3030-78370	CAP, SCREW	1							
13	1	24315-000110	O-RING, 1BP11.0	2							
14	1	24315-000140	O-RING, 1BP14.0	2							
15	1	24315-000180	O-RING, 1BP18.0	1							
16	1	23001-025000	CLAMP, HOSE 25	4							
17	1	23001-060000	CLAMP, HOSE 60	2							
18	1	172183-16560	CLIP, HOSE	1							
19	1	172A45-78100	HOSE, SUCTION	1							
20	1	172A45-78110	HOSE	1							
21	1	172A45-78120	HOSE	1							
22	1	172A46-78321	HOSE	1							
23	1	172A46-78330	HOSE	1							
24	1	172A46-78500	HOSE	1							
25	1	172A45-78570	HOSE	1							
26	1	23001-025000	CLAMP, HOSE 25	4							
27	1	23001-060000	CLAMP, HOSE 60	2							

Fig.66. HYD.OIL PIPING(CONTROL VALVE - TURNING MOTOR)

(A)=VIO30-5B P(KR)
(B)=
(C)=

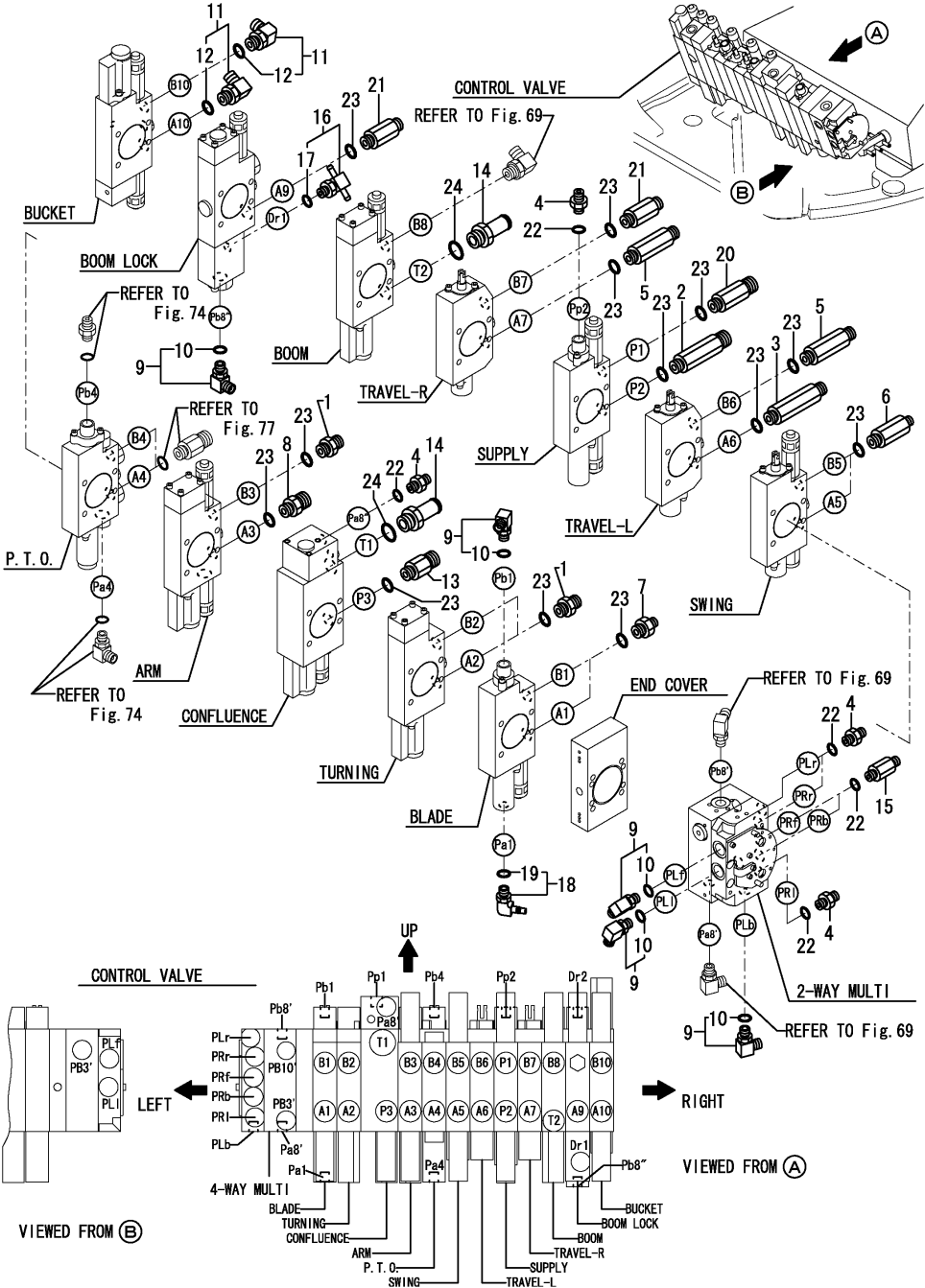
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2							
2	1	172A46-76100	NIPPLE, TEE	1							
3	1	172A52-76110	NIPPLE, TEE	1							
4	2	24315-000140	O-RING, 1BP14.0	1							
5	1	172A52-76130	ADAPTER	1							
6	2	24315-000140	O-RING, 1BP14.0	1							
7	1	172458-76160	ELBOW	1							
8	2	24315-000140	O-RING, 1BP14.0	1							
9	1	172141-76180	CONNECTOR ASSY	1							
10	2	41851-000110	O-RING	1							
11	1	24315-000140	O-RING, 1BP14.0	2							
12	1	23000-013000	CLAMP, 13	1							
13	1	172A46-78581	HOSE	1							
14	1	172A46-78260	HOSE	2							
15	1	172A46-78350	HOSE	1							
16	1	23000-013000	CLAMP, 13	1							



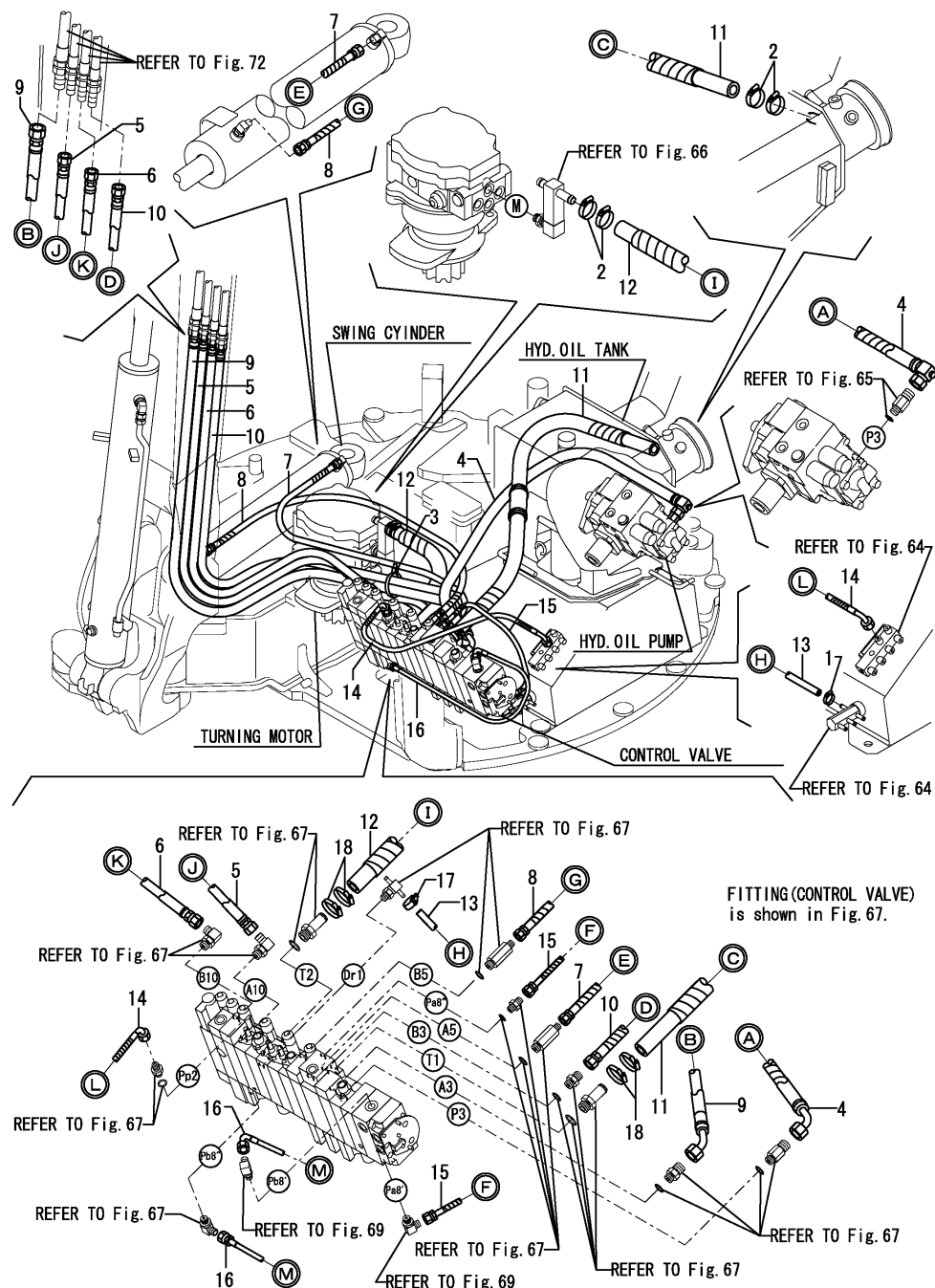
FITTING (CONTROL VALVE)
is shown in Fig. 67.

Fig.67. HYD.OIL PIPING(CONTROL VALVE : FITTING)



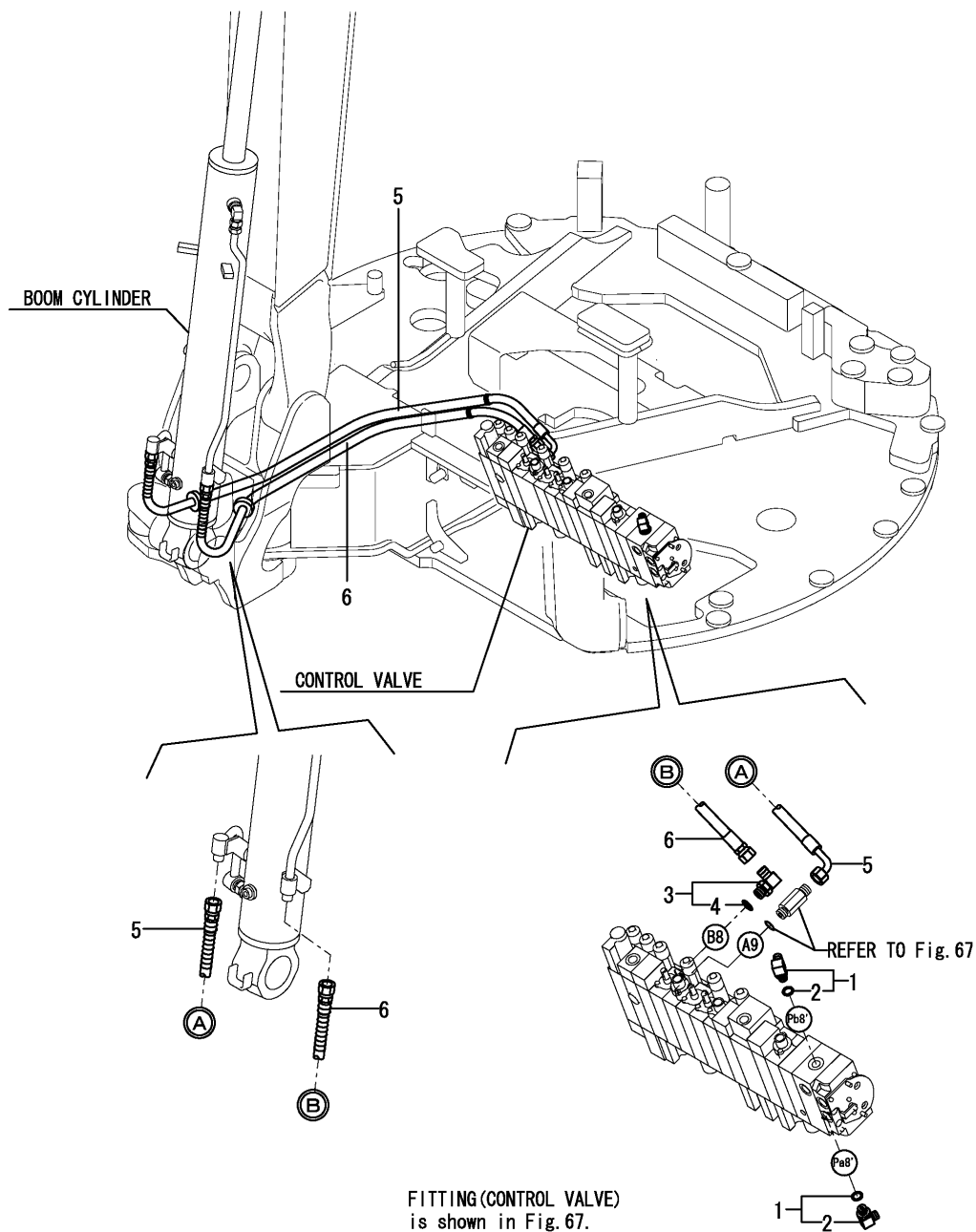
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	3							
2	1	172A46-76110	CONNECTOR	1							
3	1	172A46-76120	CONNECTOR	1							
4	1	172123-76121	ADAPTER	5							
5	1	172162-76131	ADAPTER	2							
6	1	172422-76130	CONNECTOR	2							
7	1	172124-76160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

Fig.68. HYD.OIL PIPING(CONTROL VALVE - BOOM, SWING)



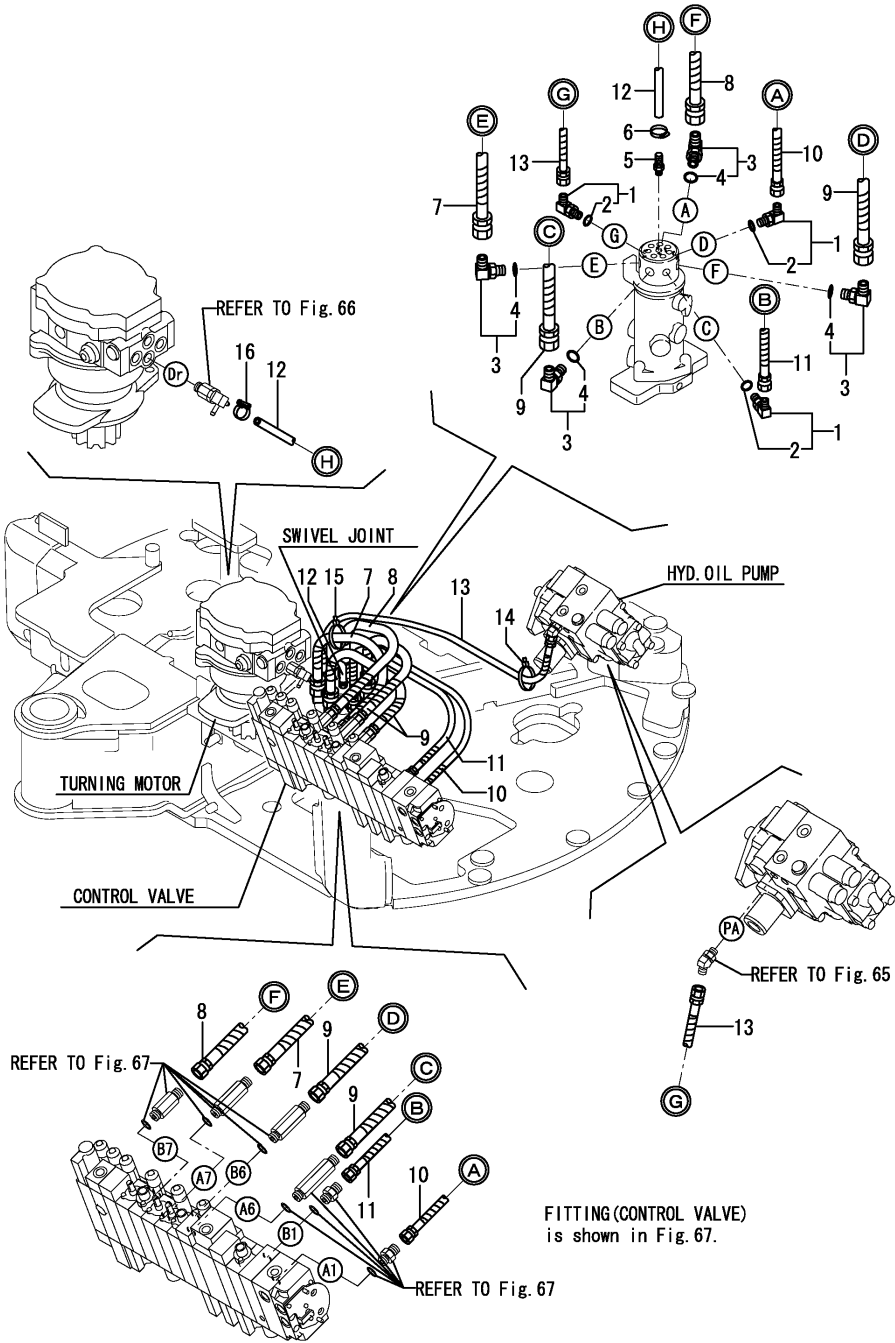
				(A)=VIO30-5B P(KR)	(D)=				
				(B)=	(E)=				
				(C)=	(F)=				
No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	23000-013000	CLAMP, 13	1					
2	1	23001-025000	CLAMP, HOSE 25	4					
3	1	194202-56460	BAND, 200	1					
4	1	172A46-78131	HOSE	1					
5	1	172A46-78140	HOSE	1					
6	1	172A46-78150	HOSE	1					
7	1	172A46-78220	HOSE	1					
8	1	172A46-78230	HOSE	1					
9	1	172A46-78240	HOSE	1					
10	1	172A46-78250	HOSE	1					
11	1	172A46-78300	HOSE	1					
12	1	172A45-78310	HOSE	1					
13	1	172A46-78360	HOSE	1					
14	1	172A46-78590	HOSE	1					
15	1	172A47-78610	HOSE	1					
16	1	172A47-78620	HOSE	1					
17	1	23000-013000	CLAMP, 13	1					
18	1	23001-025000	CLAMP, HOSE 25	4					

Fig.69. HYD.OIL PIPING(CONTROL VALVE - BOOM CYLINDER)



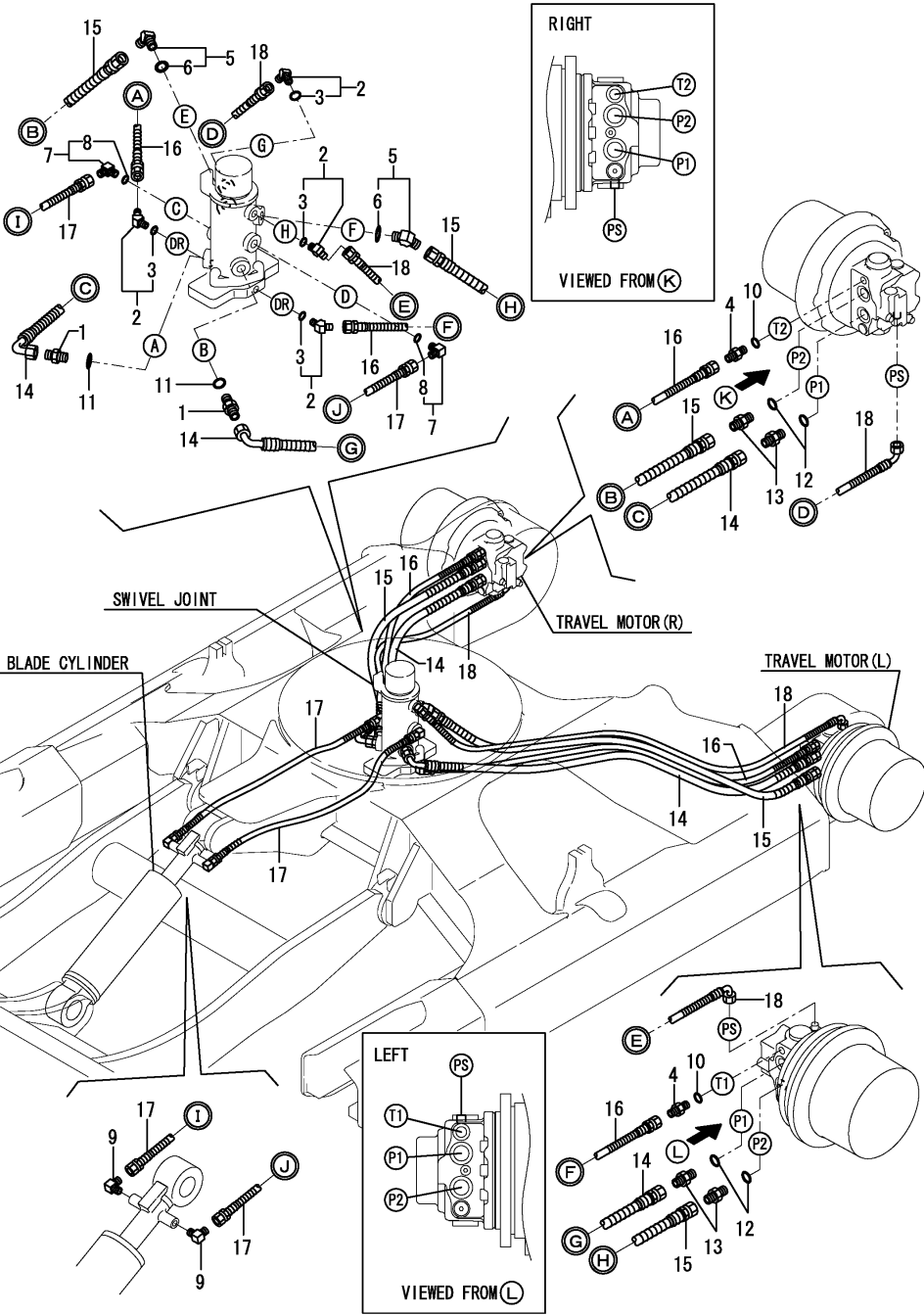
No.	Lev.	Parts No.	Description	(A)=VIO30-5B P(KR)		(D)=		(E)=		(F)=	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172141-76181	CONNECTOR ASSY, 02FF	2								
2	2	41851-000110	O-RING	2								
3	1	172142-76181	JOINT ASSY	1								
4	2	24315-000140	O-RING, 1BP14.0	1								
5	1	172A46-78160	HOSE	1								
6	1	172A46-78170	HOSE	1								

Fig.70. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT)



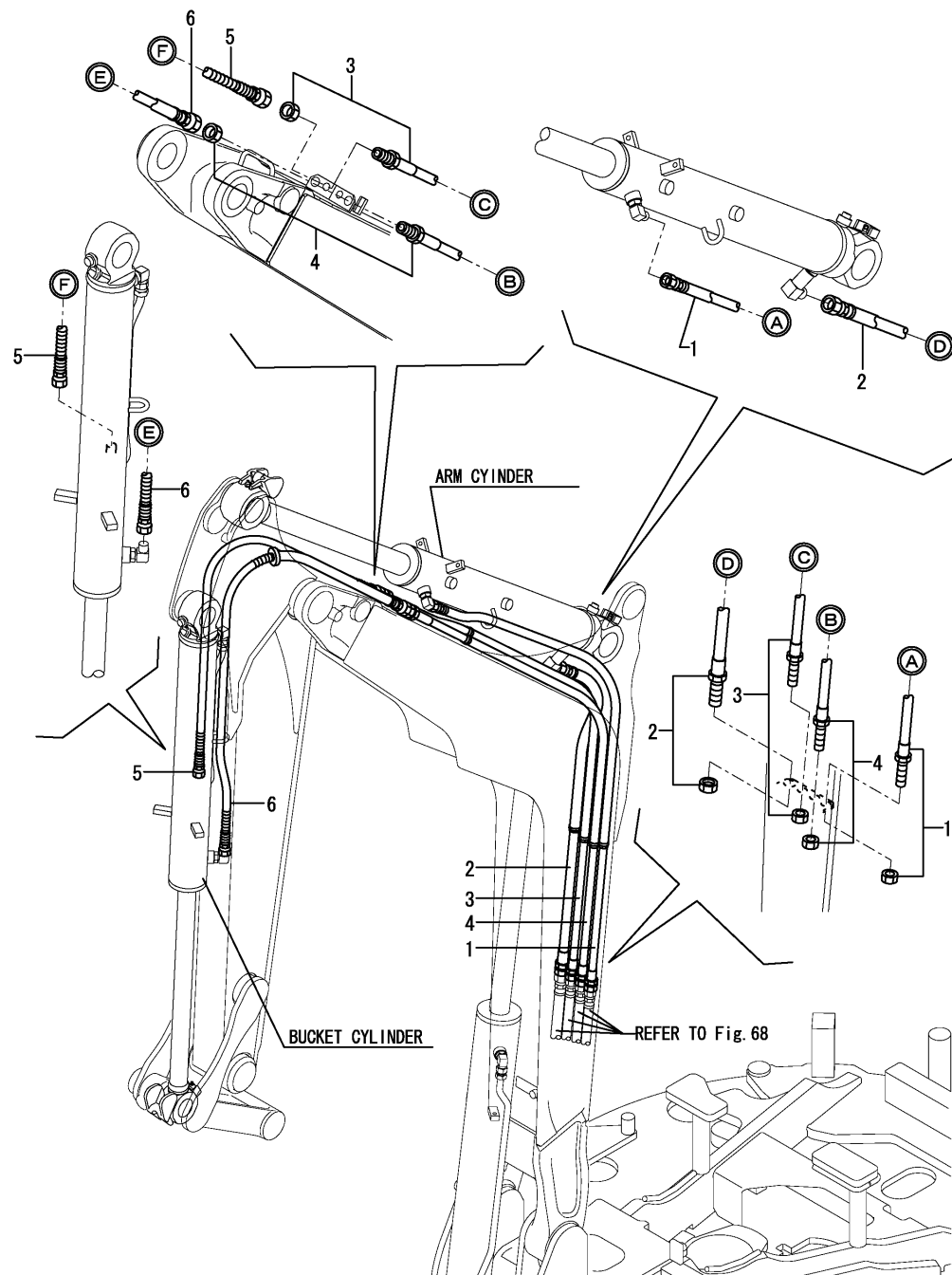
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-76180	CONNECTOR ASSY	3							
2	2	24315-000110	O-RING, 1BP11.0	3							
3	1	172142-76181	JOINT ASSY	4							
4	2	24315-000140	O-RING, 1BP14.0	4							
5	1	172141-76220	NIPPLE	1							
6	1	23000-013000	CLAMP, 13	1							
7	1	172A46-78180	HOSE	1							
8	1	172A46-78190	HOSE	1							
9	1	172A46-78200	HOSE	2							
10	1	172A46-78280	HOSE	1							
11	1	172A46-78290	HOSE	1							
12	1	172A46-78340	HOSE	1							
13	1	172A45-78600	HOSE	1							
14	1	172122-79930	CLAMP, HOSE	1							
15	1	172122-79930	CLAMP, HOSE	1							
16	1	23000-013000	CLAMP, 13	1							

OCS10-M52900 HYDRAULIC OIL PIPING
Fig.71. HYD.OIL PIPING(TRACK FRAME)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2							
2	1	172173-76102	CONNECTOR ASSY	4							
3	2	41851-000110	O-RING	4							
4	1	172123-76121	ADAPTER	2							
5	1	172644-76161	ELBOW, ADJUST	2							
6	2	24315-000140	O-RING, 1BP14.0	2							
7	1	172141-76181	CONNECTOR ASSY, 02FF	2							
8	2	41851-000110	O-RING	2							
9	1	23393-020000	JOINT, 90RGI-1/4	2							
10	1	24315-000110	O-RING, 1BP11.0	2							
11	1	24315-000140	O-RING, 1BP14.0	2							
12	1	24315-000180	O-RING, 1BP18.0	4							
13	1	933160-01370	CONNECTOR, PF1/2PF3/8	4							
14	1	172422-78362	HOSE	2							
15	1	172422-78372	HOSE	2							
16	1	172422-78383	HOSE	2							
17	1	172422-78390	HOSE	2							
18	1	172458-78562	HOSE	2							

Fig.72. HYD.OIL PIPING(BOOM)

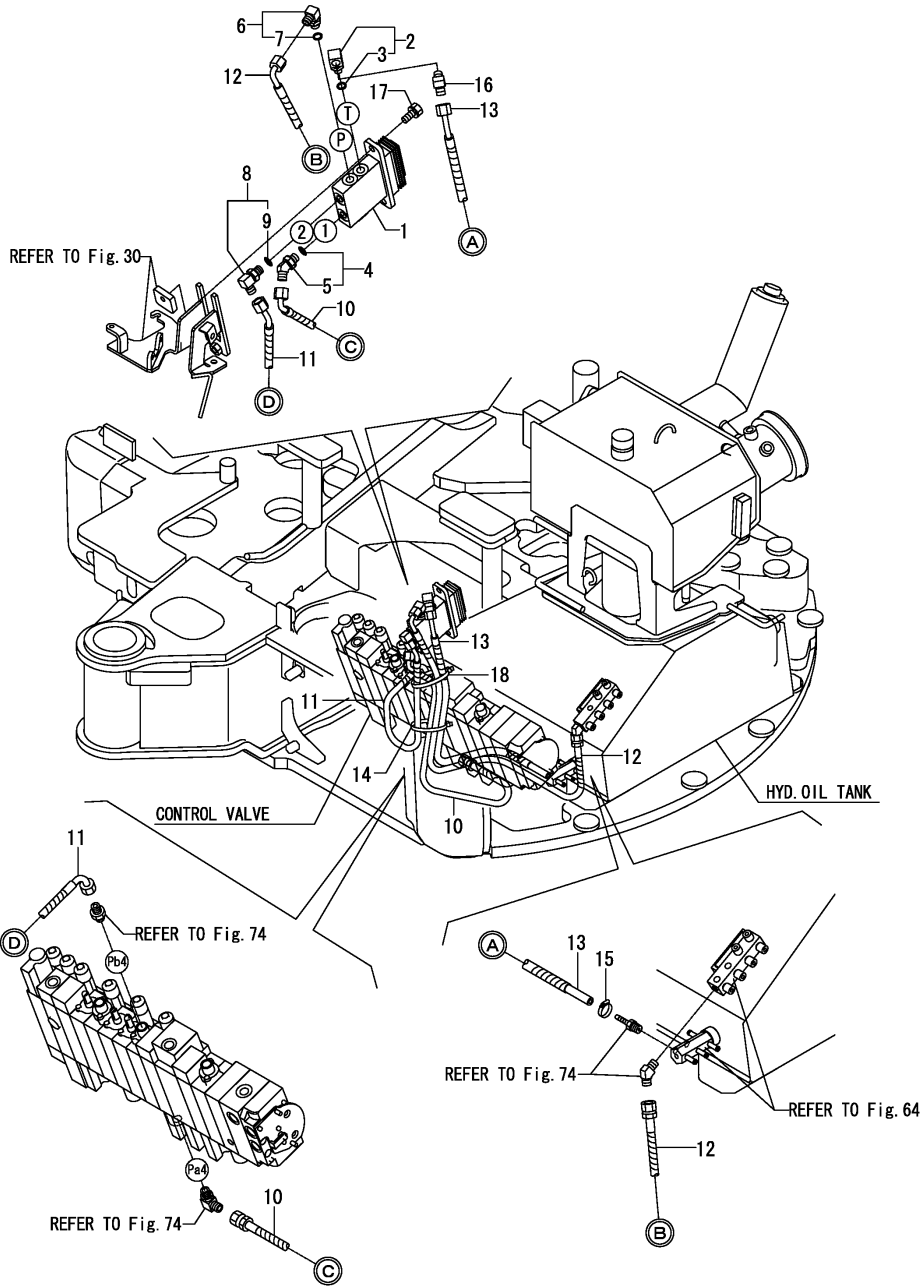


(A)=VIO30-5B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172A45-78400	HOSE	1							
2	1	172A45-78390	HOSE	1							
3	1	172A45-78410	HOSE	1							
4	1	172A45-78420	HOSE	1							
5	1	172A85-78430	HOSE	1							
6	1	172A85-78690	HOSE	1							

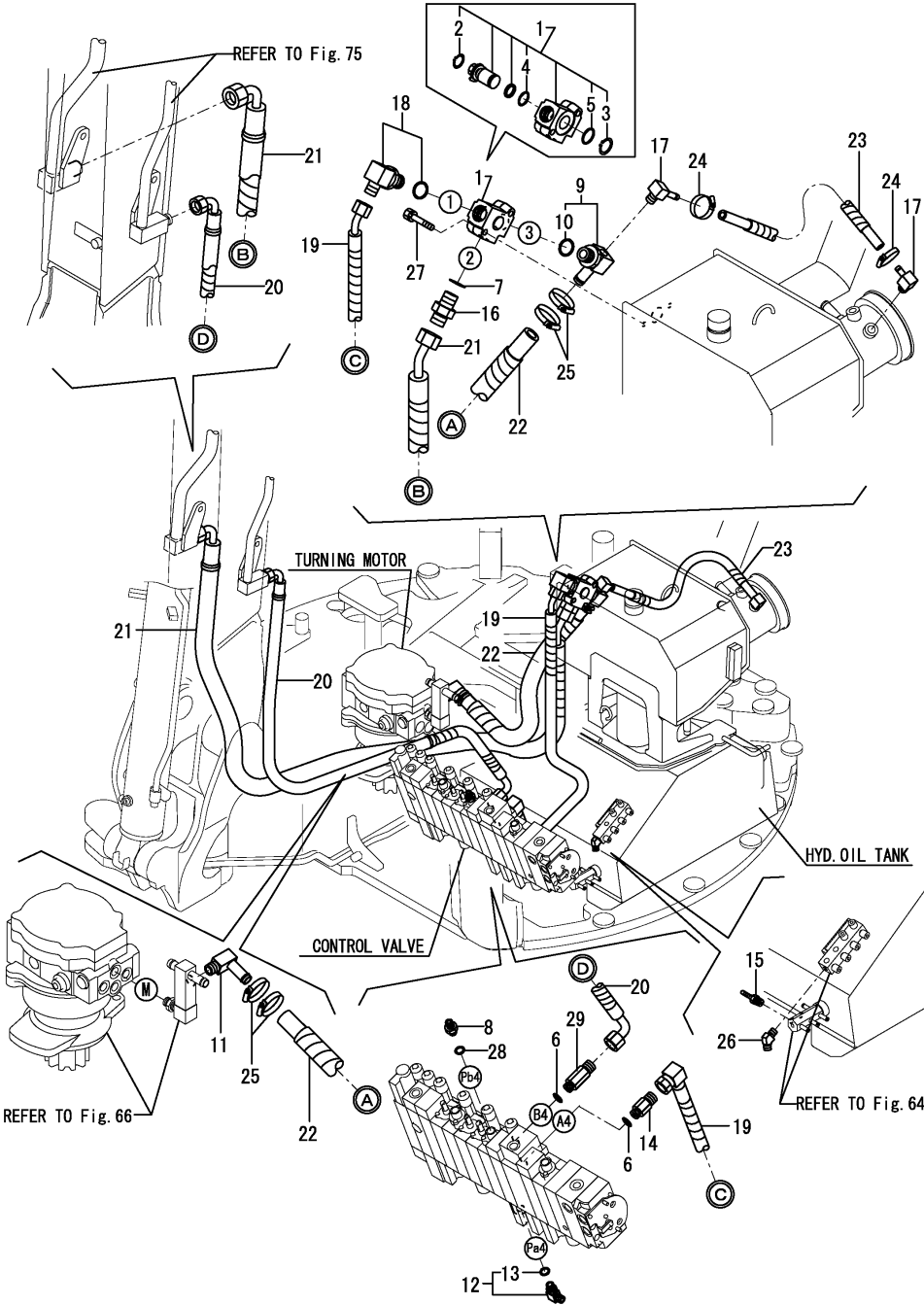
Fig.73. HYD.OIL PIPING(P.T.O. : PEDAL)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-74800	VALVE ASSY, FOOT	1							
2	1	172137-76100	ELBOW	1							
3	2	24315-000110	O-RING, 1BP11.0	1							
4	1	172173-76102	CONNECTOR ASSY	1							
5	2	41851-000110	O-RING	1							
6	1	172958-76130	ELBOW	1							
7	2	24315-000110	O-RING, 1BP11.0	1							
8	1	172141-76181	CONNECTOR ASSY, 02FF	1							
9	2	41851-000110	O-RING	1							
10	1	172A46-79130	HOSE	1							
11	1	172A46-79140	HOSE	1							
12	1	172A46-79150	HOSE	1							
13	1	172A46-79160	HOSE	1							
14	1	172122-79930	CLAMP, HOSE	1							
15	1	23000-013000	CLAMP, 13	1							
16	1	23394-020000	JOINT, 45RGI-1/4	1							
17	1	26013-100252	BOLT, M10X 25	2							
18	1	194202-56460	BAND, 200	1							W

(A=MZZZZZ)

Fig.74. HYD.OIL PIPIN(P.T.O. : CONTROL VALVE - BOOM)

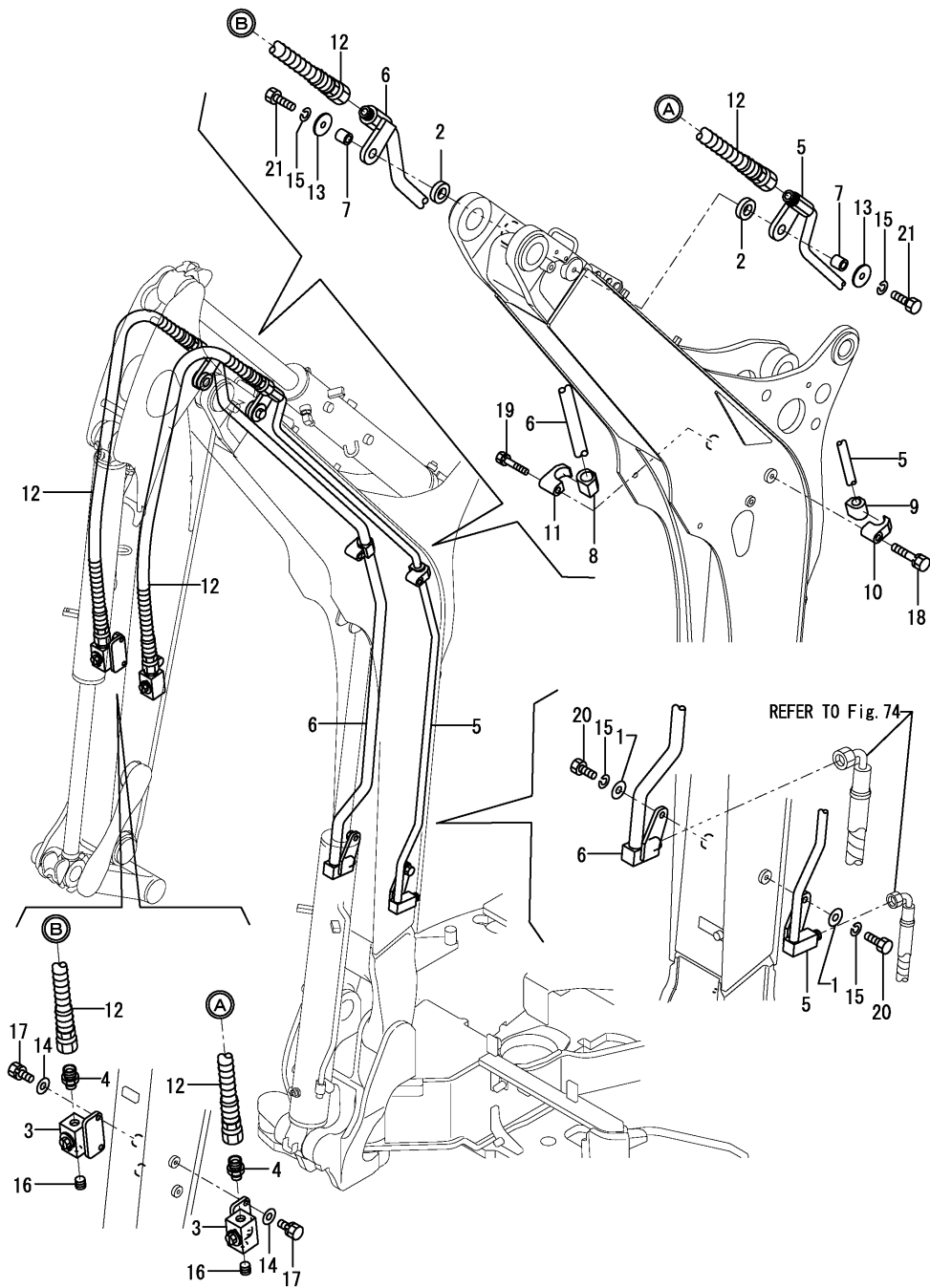


(A)=VIO30-5B P(KR)
(B)=
(C)=

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

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

Fig.75. HYD.OIL PIPING(P.T.O. : BOOM - ARM END)

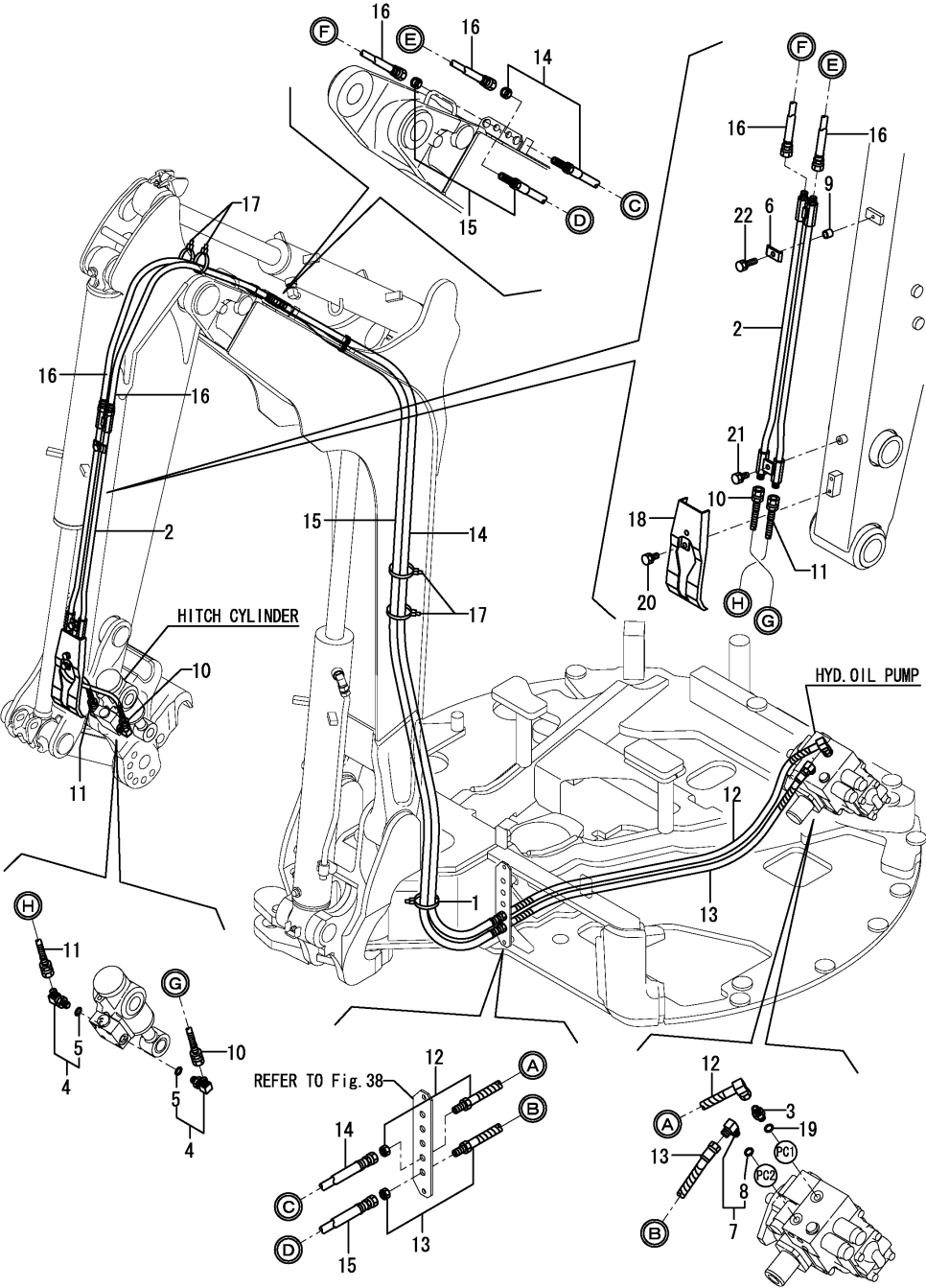


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172147-13150	WASHER	2							
1-1	1	172147-13151	WASHER	2							N
(A=M54059)											
2	1	172A52-14200	PAD, ABSORBER	2							
3	1	172183-74821-3	VALVE, STOP	2							
3-1	1	172183-74822-3	VALVE, STOP (2J)	2							N
(A=MZZZZZ)											
3-2	1	172183-74822-Y	VALVE, STOP	2							S
(A=M56001)											
4	1	172633-76160	ADAPTER	2							
4-1	1	172162-76141	ADAPTER, 1/2-3/4	2							N
(A=M53163)											
5	1	172A45-76401-2	TUBE, PTO	1							
5-1	1	172A45-76401-Y	TUBE, PTO	1							S
(A=M56001)											
6	1	172A45-76451-1	TUBE, PTO	1							
6-1	1	172A45-76451-Y	TUBE, PTO	1							S
(A=M56001)											
7	1	172A47-76460	COLLAR	2							
8	1	172A46-76470	RUBBER, TUBE	1							
9	1	172A46-76480	RUBBER, TUBE	1							
10	1	172142-76940-2	CLAMP	1							
10-1	1	172142-76940-Y	CLAMP	1							S
(A=M56001)											
11	1	172151-76990-2	CLAMP	1							
11-1	1	172151-76990-Y	CLAMP	1							S
(A=M56001)											
12	1	172A45-78850	HOSE	2							
12-1	1	172A45-78851	HOSE	2							N
(A=M/#XXXXX)											
13	1	172146-82910	SPACER	2							
14	1	222117-100000	WASHER, 10	4							
15	1	222117-120000	WASHER, SPRING 12	4							
16	1	23871-040000	PLUG, R04	2							
17	1	26013-100252	BOLT, M10X 25	4							
18	1	26013-120552	BOLT, M12X 55	1							
19	1	26013-120602	BOLT, M12X 60	1							
20	1	26076-120302	BOLT, 10.912X 30	2							
21	1	26076-120402	BOLT, 10.912X 40	2							

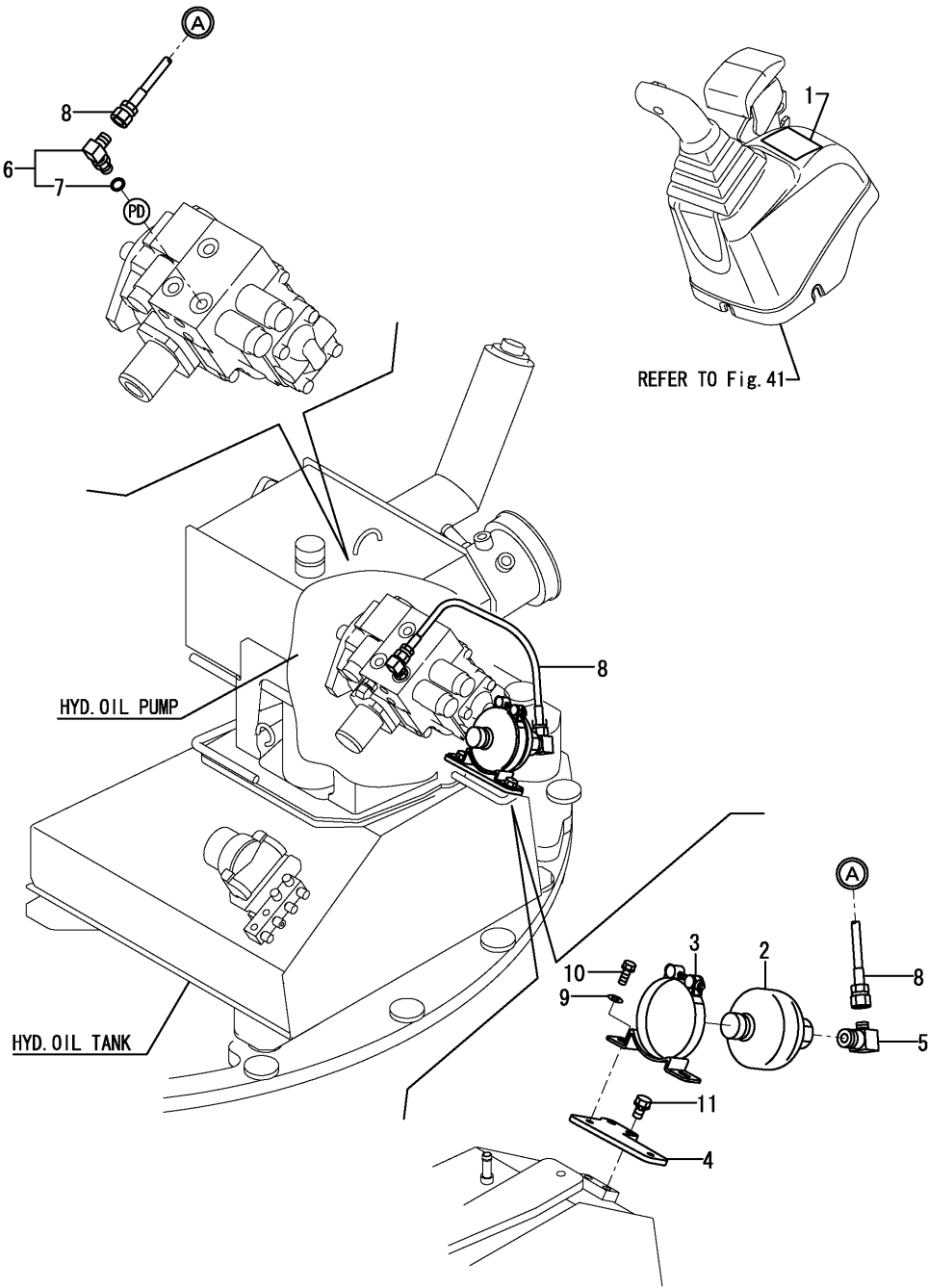
Fig.76. HYD.OIL PIPING(QUICK COUPLER)

(A)=VIO30-5B P(KR)
(B)=
(C)=

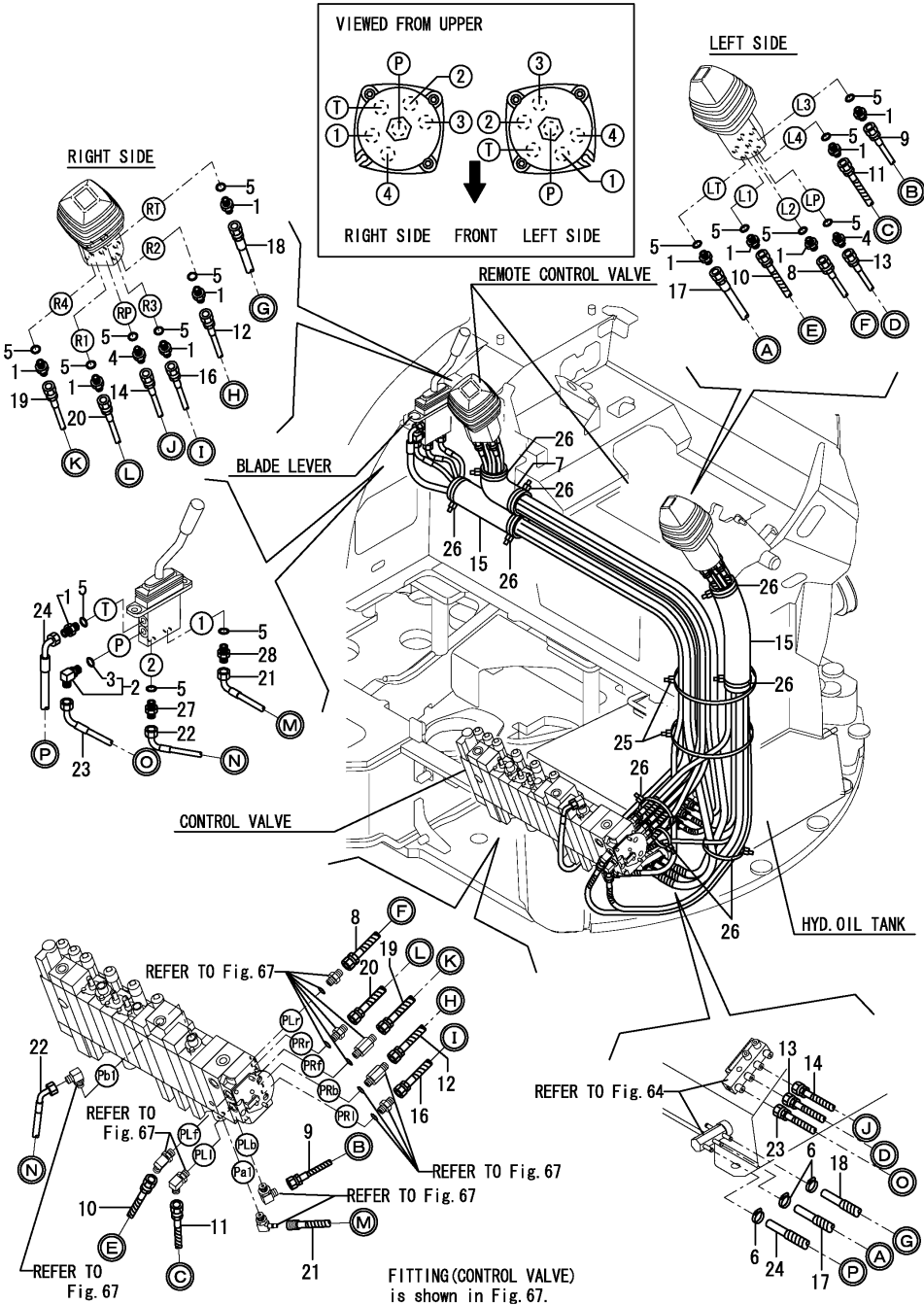
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194202-56460	BAND, 200	2							
2	1	172958-76102-2	TUBE, HITCH	1							
2-1	1	172958-76102-Y	TUBE, HITCH	1							S
(A=M56001)											
3	1	172123-76121	ADAPTER	1							
4	1	172958-76130	ELBOW	2							
5	2	24315-000110	O-RING, 1BP11.0	2							
6	1	172110-76170-3	PLATE	1							
6-1	1	172110-76170	PLATE	1							R
(A=MZZZZZ)											
7	1	172141-76181	CONNECTOR ASSY, 02FF	1							
8	2	41851-000110	O-RING	1							
9	1	172137-76580	COLLAR	1							
10	1	172958-78200	HOSE	1							
11	1	172958-78210	HOSE	1							
12	1	172A46-78900	HOSE	1							
13	1	172A46-78910	HOSE	1							
14	1	172A45-78960	HOSE	1							
15	1	172A45-78970	HOSE	1							
16	1	172A45-78980	HOSE	2							
17	1	172122-79930	CLAMP, HOSE	4							
18	1	172958-81903-2	COVER, ARM	1							
18-1	1	172958-81904	COVER, ARM	1							N
(A=M53793)											
18-2	1	172958-81904-Y	COVER, ARM	1							S
(A=M56001)											
19	1	24315-000110	O-RING, 1BP11.0	1							
20	1	26013-080162	BOLT, M8X 16	2							
21	1	26013-080162	BOLT, M8X 16	1							
22	1	26013-080252	BOLT, M8X 25	1							

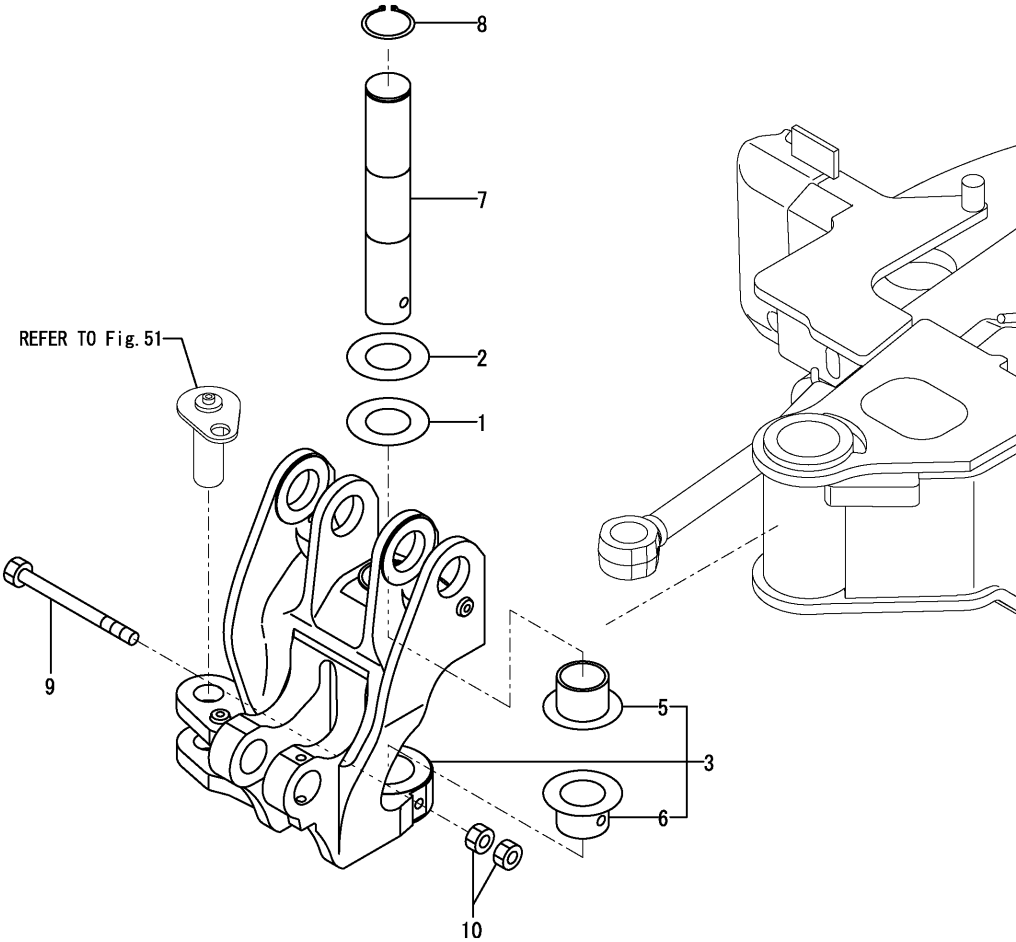


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A46-03301	LABEL, PTO	1							
2	1	172478-73600	ACCUMULATOR	1							
3	1	172478-73630	CLAMP	1							
4	1	172A46-75440	BRACKET	1							
5	1	172478-76200	CONNECTOR	1							
6	1	172141-76920	CONNECTOR ASSY	1							
7	2	24315-000140	O-RING, 1BP14.0	1							
8	1	172480-78940	HOSE	1							
9	1	22137-080000	WASHER, 8	2							
10	1	26013-080162	BOLT, M8X 16	2							
11	1	26013-100162	BOLT, M10X 16	2							

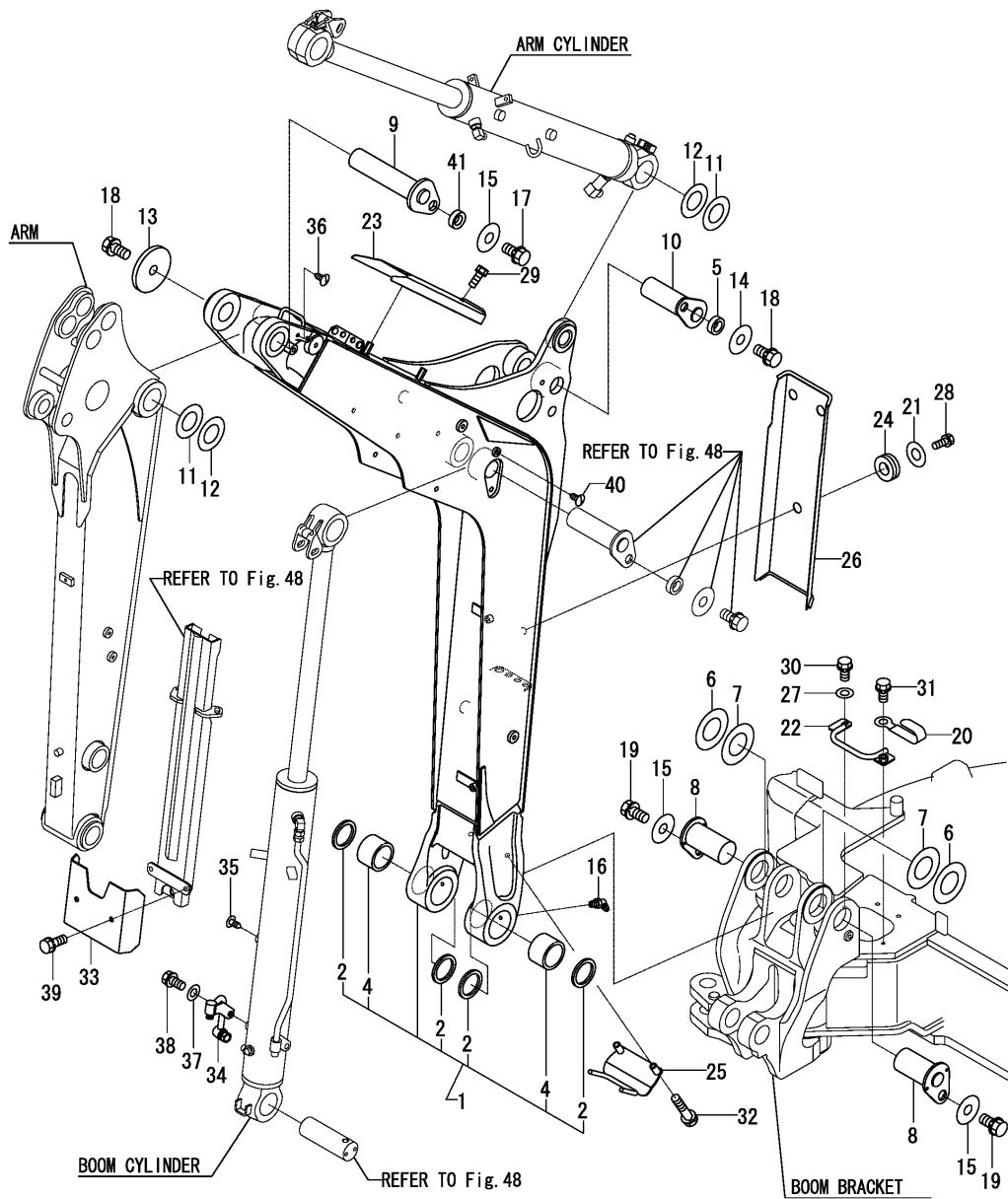


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	11							
2	1	172958-76130	ELBOW	1							
3	2	24315-000110	O-RING, 1BP11.0	1							
4	1	172455-76220	CONNECTOR	2							
5	1	24315-000110	O-RING, 1BP11.0	15							
6	1	23000-013000	CLAMP, 13	3							
7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

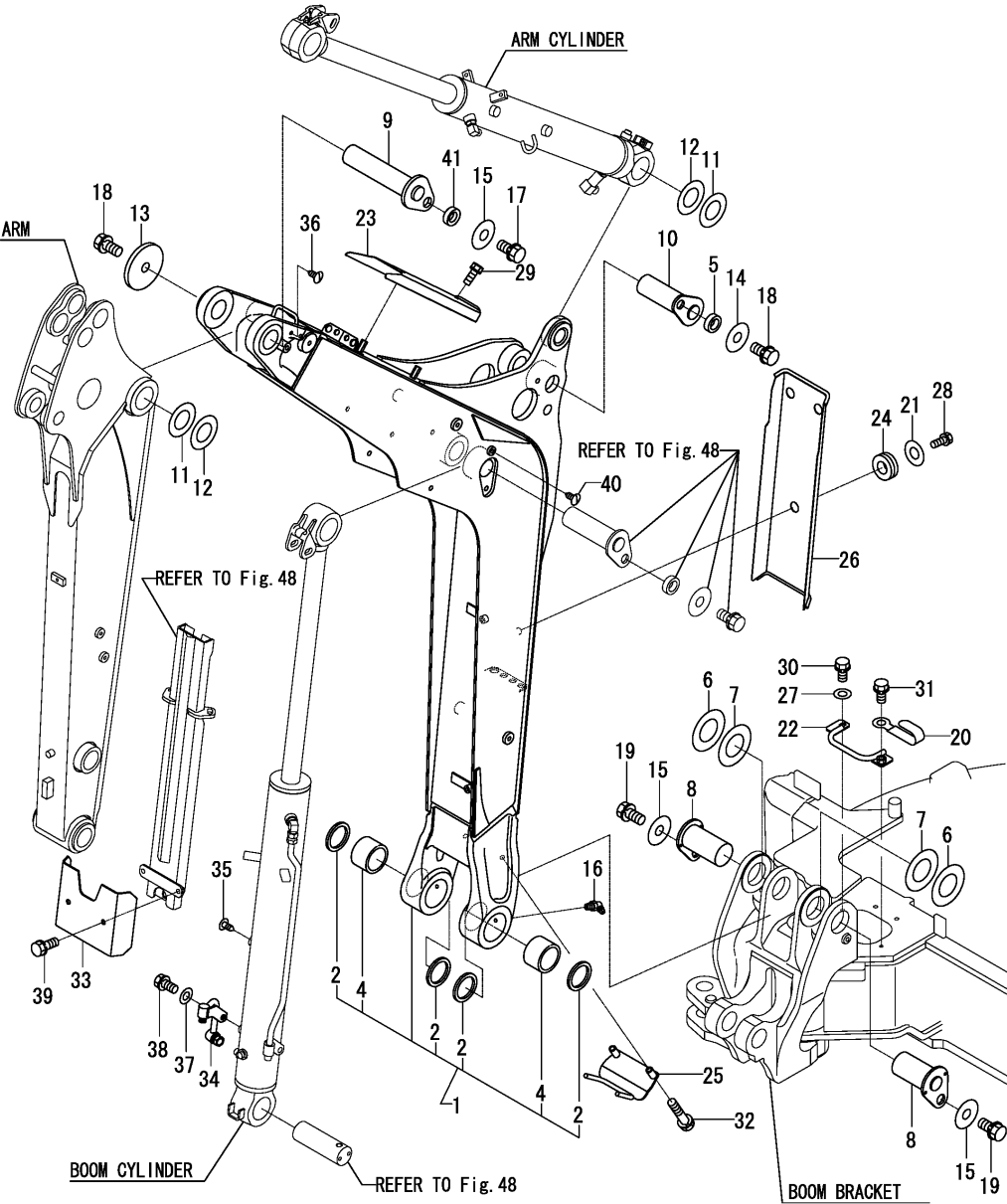
Fig.79. BOOM BRACKET



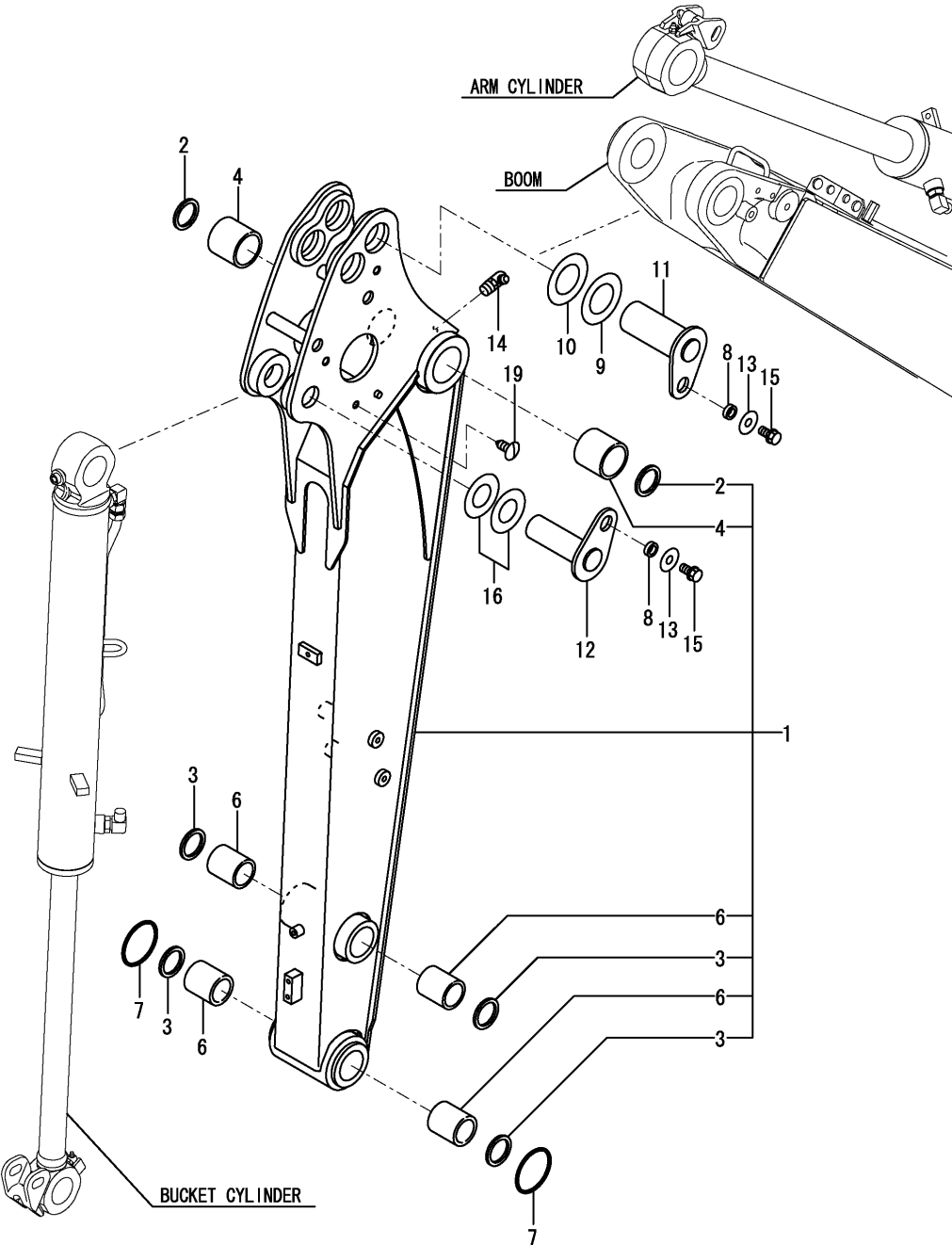
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172176-81700	SHIM	1							
2	1	172176-81710	SHIM	1							
3	1	172459-82300-2	BRACKET, BOOM	1							
3-1	1	172459-82300-Y (A=M56001)	BRACKET, BOOM	1						S	
5	2	172148-82320	BUSH	1							
6	2	172459-82320	BUSH	1							
7	1	172459-82330	PIN	1							
8	1	22242-000700	RING, 70	1							
9	1	26206-141502	BOLT, M14X150 PLATED	1							
10	1	26716-140002	NUT, M14	2							



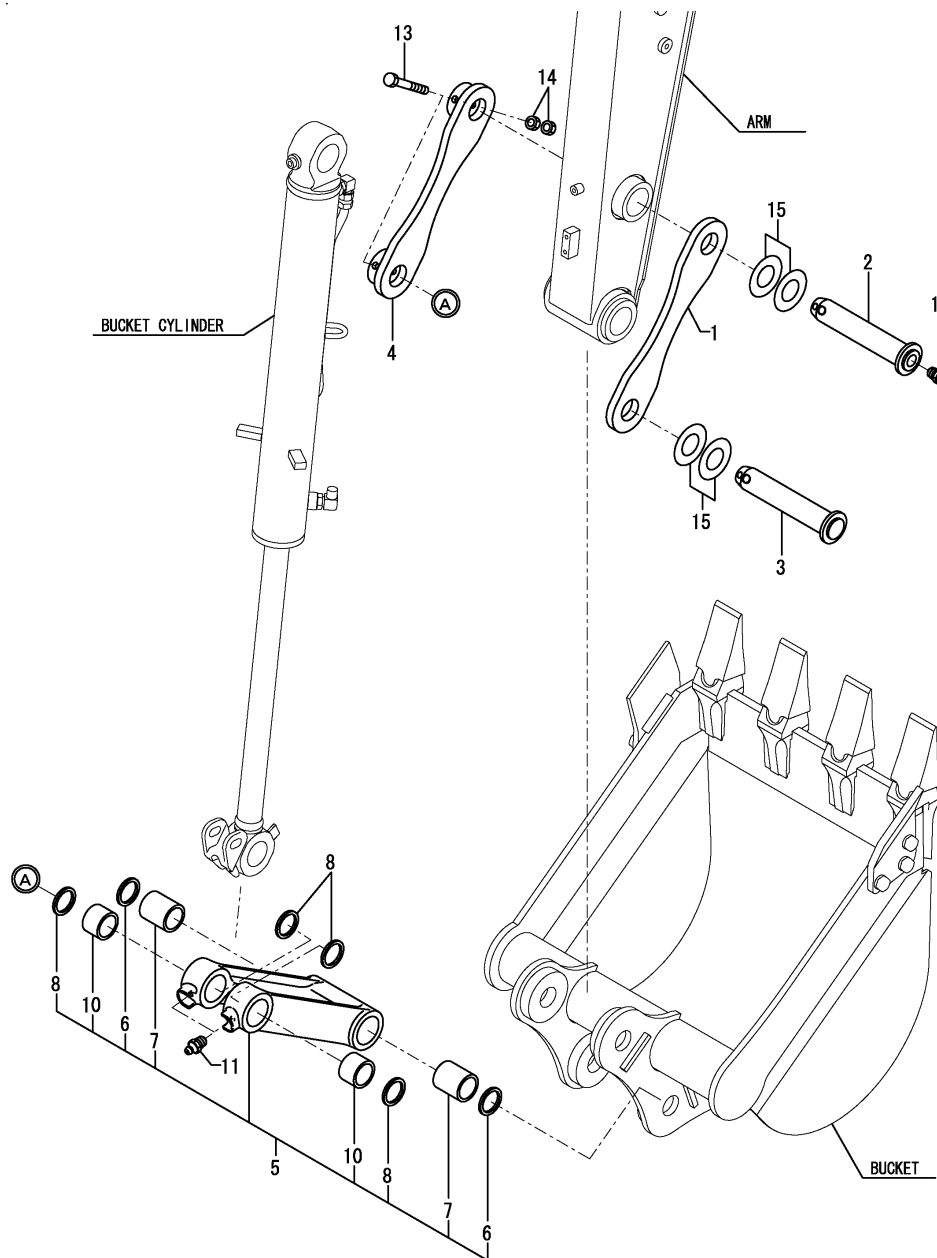
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A85-81100	BOOM ASSY	1							
1-1	1	172A85-81101	BOOM ASSY(EX(2J))	1						S	
(A=M/#53112)											
1-2	1	172A85-81101-Y	BOOM ASSY(EX	1						S	
(A=M56001)											
2	2	172020-10620	SEAL, DUST	4							
4	2	172458-81400	BUSH	2							
5	1	172164-81670	SPACER	1							
6	1	172175-81700	SHIM	2							
7	1	172175-81710	SHIM	2							
8	1	172458-81800	PIN ASSY	2							
9	1	172A46-81930	PIN ASSY	1							
10	1	172A46-81950	PIN ASSY	1							
11	1	172165-82520	SHIM	2							
12	1	172165-82530	SHIM	2							
13	1	172146-82910	SPACER	1							
14	1	22157-120000	WASHER, 12	1							
15	1	22157-120000	WASHER, 12	3							
16	1	24761-050000	NIPPLE, GREASE C	2							
16-1	1	24761-040000	NIPPLE, GREASE B	1						N	
(A=M/#XXXXX)											
17	1	26013-120202	BOLT, M12X 20	1							
18	1	26013-120252	BOLT, M12X 25	2							
19	1	26013-120302	BOLT, M12X 30	2							
20	1	172126-16540	CLAMP	1							
21	1	1A1040-43900	WASHER, SPRING	3							
22	1	172A46-61150-2	COVER, HOSE	1							
22-1	1	172A46-61150-Y	COVER, HOSE	1						S	
(A=M56001)											
23	1	172A44-81950-2	COVER ASSY, BOOM	1							
23-1	1	172A44-81950-Y	COVER ASSY, BOOM	1						S	
(A=M56001)											
24	1	172137-62970	GROMMET	3							
25	1	172A46-79300-2	GUIDE, HOSE	1							
25-1	1	172A46-79300-Y	GUIDE, HOSE	1						S	
(A=M56001)											
26	1	172A46-81800-2	COVER, BOOM	1							
26-1	1	172A46-81800-Y	COVER, BOOM	1						S	
(A=M56001)											
27	1	22137-100000	WASHER, 10	1							
28	1	26013-080162	BOLT, M8X 16	3							
29	1	26013-080162	BOLT, M8X 16	2							
30	1	26013-100202	BOLT, M10X 20	1							
31	1	26013-100302	BOLT, M10X 30	1							
32	1	26013-100452	BOLT, M10X 45	2							
33	1	172A46-72680-2	COVER, HOSE	1							
33-1	1	172A46-72680-N	COVER, HOSE	1						S	
(A=M56001)											
34	1	172A47-72770-2	PIPE ASSY, BOOM	1							
34-1	1	172A47-72770-N	PIPE ASSY, BOOM	1						S	
(A=M56001)											



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
35	1	172183-81160	CLIP, TREE	1							
36	1	172183-81160	CLIP, TREE	2							
37	1	22137-100000	WASHER, 10	1							
38	1	26013-100202	BOLT, M10X 20	1							
39	1	26013-100202	BOLT, M10X 20	2							
40	1	172183-81170	CLIP, TREE	2							Z
(A=M/#53101)											
41	1	172A85-81350	SPACER, BOOM	1							W
(A=FROM 1ST)											



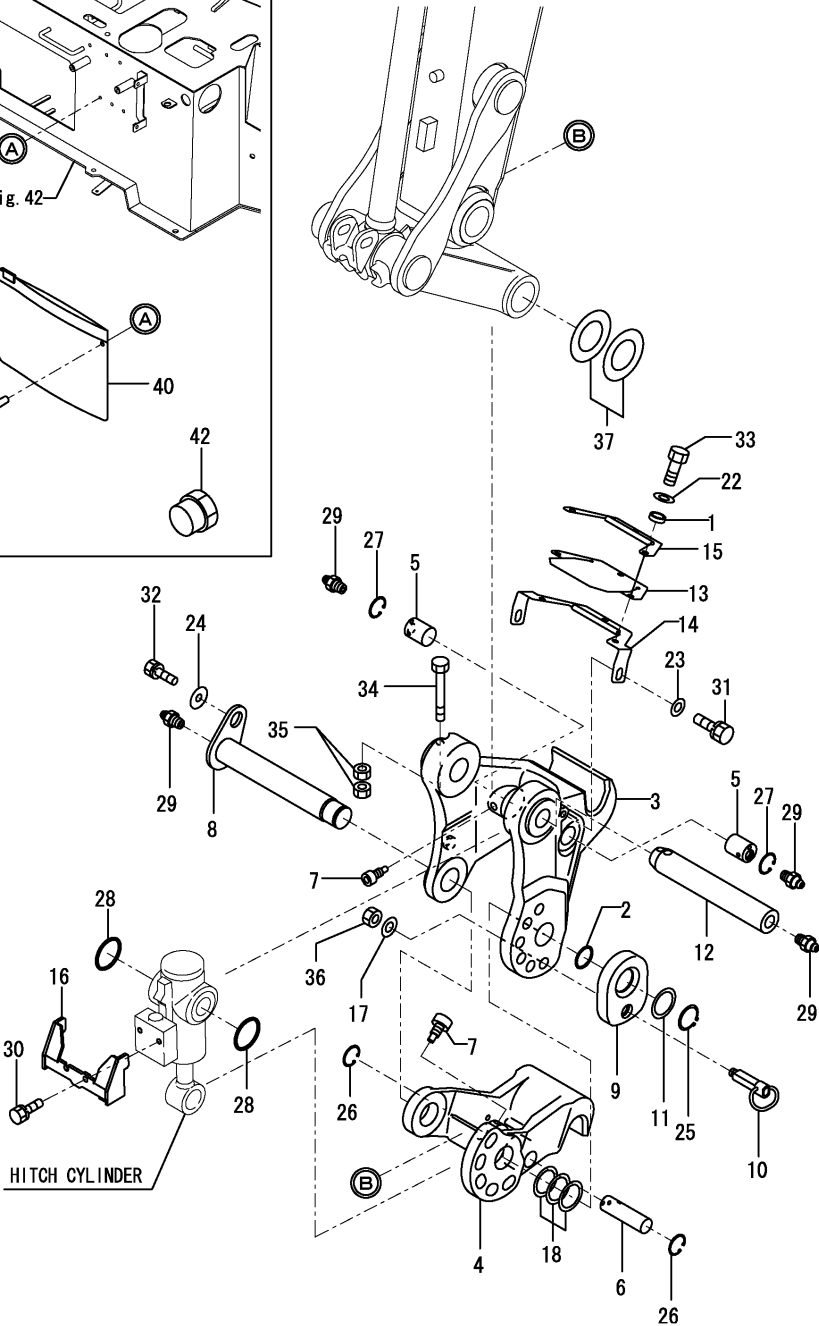
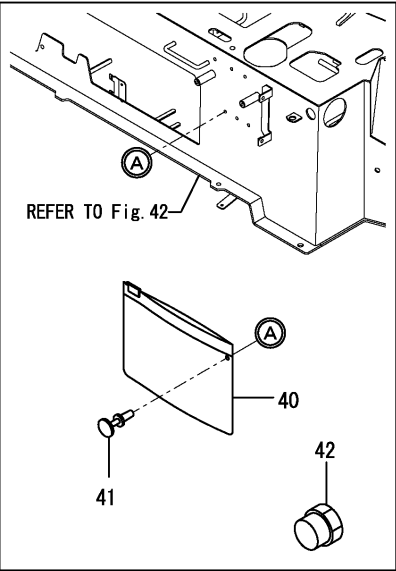
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A45-81501	ARM ASSY	1							
1-1	1	172A45-81501-Y	ARM, 1220	1						S	
(A=M56001)											
2	2	172448-54120	SEAL, DUST	2							
3	2	172168-81270	SEAL, DUST	4							
4	2	172444-81310	BUSH, PIN	2							
6	2	172458-81630	BUSH	4							
7	1	172142-81620	O-RING	2							
8	1	172164-81670	SPACER	2							
9	1	172165-82520	SHIM	1							
10	1	172165-82530	SHIM	1							
11	1	172458-83690	PIN ASSY	1							
12	1	172458-83710	PIN ASSY	1							
13	1	22157-120000	WASHER, 12	2							
14	1	24761-040000	NIPPLE, GREASE B	1							
15	1	26013-120252	BOLT, M12X 25	2							
16	1	933171-29751	SHIM SET	1							
19	1	172183-81160	CLIP, TREE	1							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81820-1	ARM, BUCKET	1							
1-1	1	172164-81820-Y (A=M56001)	ARM, BUCKET	1							S
2	1	172458-81860	PIN ASSY	1							
3	1	172458-81890	PIN ASSY	1							
4	1	172458-82600-2	ARM, BUCKET	1							
4-1	1	172458-82600-Y (A=M56001)	ARM, BUCKET	1							S
5	1	172458-82651-2	LINK, BUCKET	1							
5-1	1	172458-82651-Y (A=M56001)	LINK, BUCKET	1							S
6	2	172168-81270	SEAL, DUST	2							
7	2	172458-81630	BUSH	2							
8	2	172122-82290	SEAL, DUST	4							
10	2	172168-84411	BUSH	2							
11	1	24761-020000	NIPPLE, GREASE PT1/8	2							
12	1	24761-020000	NIPPLE, GREASE PT1/8	1							
13	1	26116-100752	BOLT, M10X 75 PLATED	2							
14	1	26716-100002	NUT, M10	4							
15	1	933171-29751	SHIM SET	2							

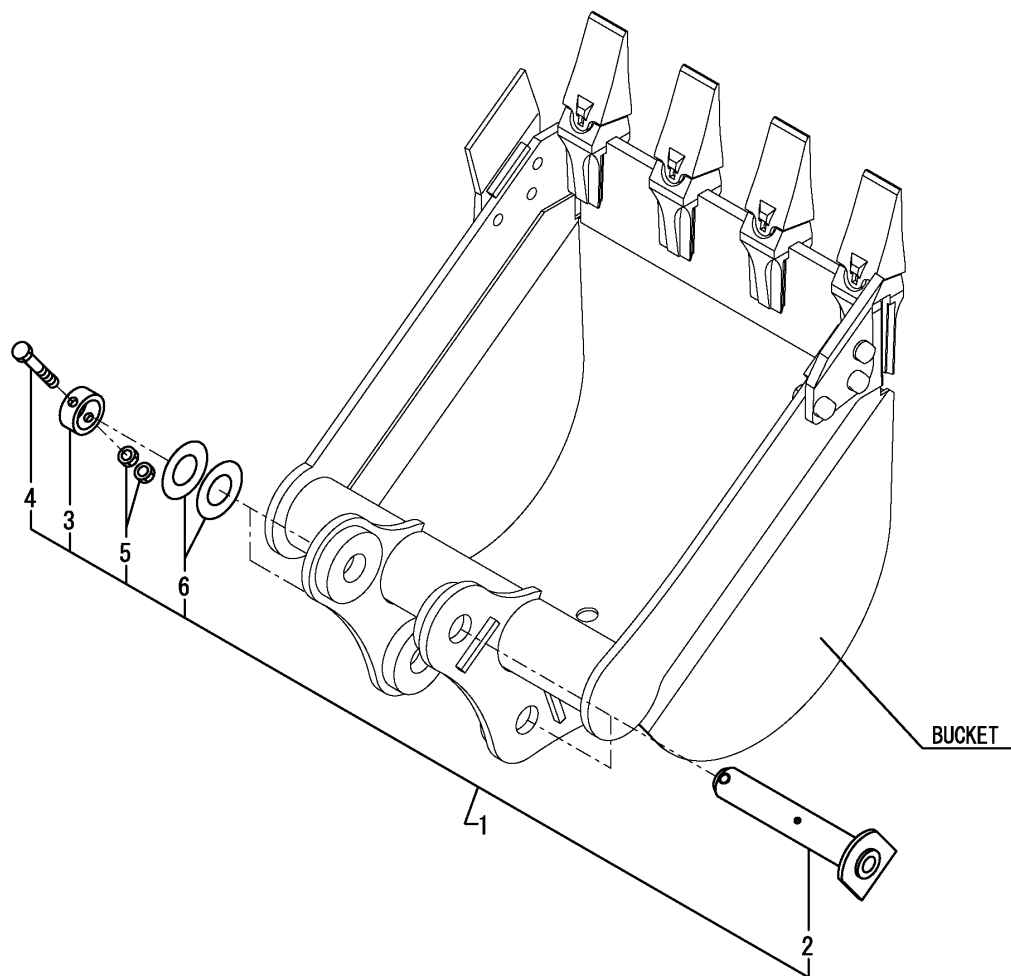
(A)=VIO30-5B P(KR)
(B)=
(C)=

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

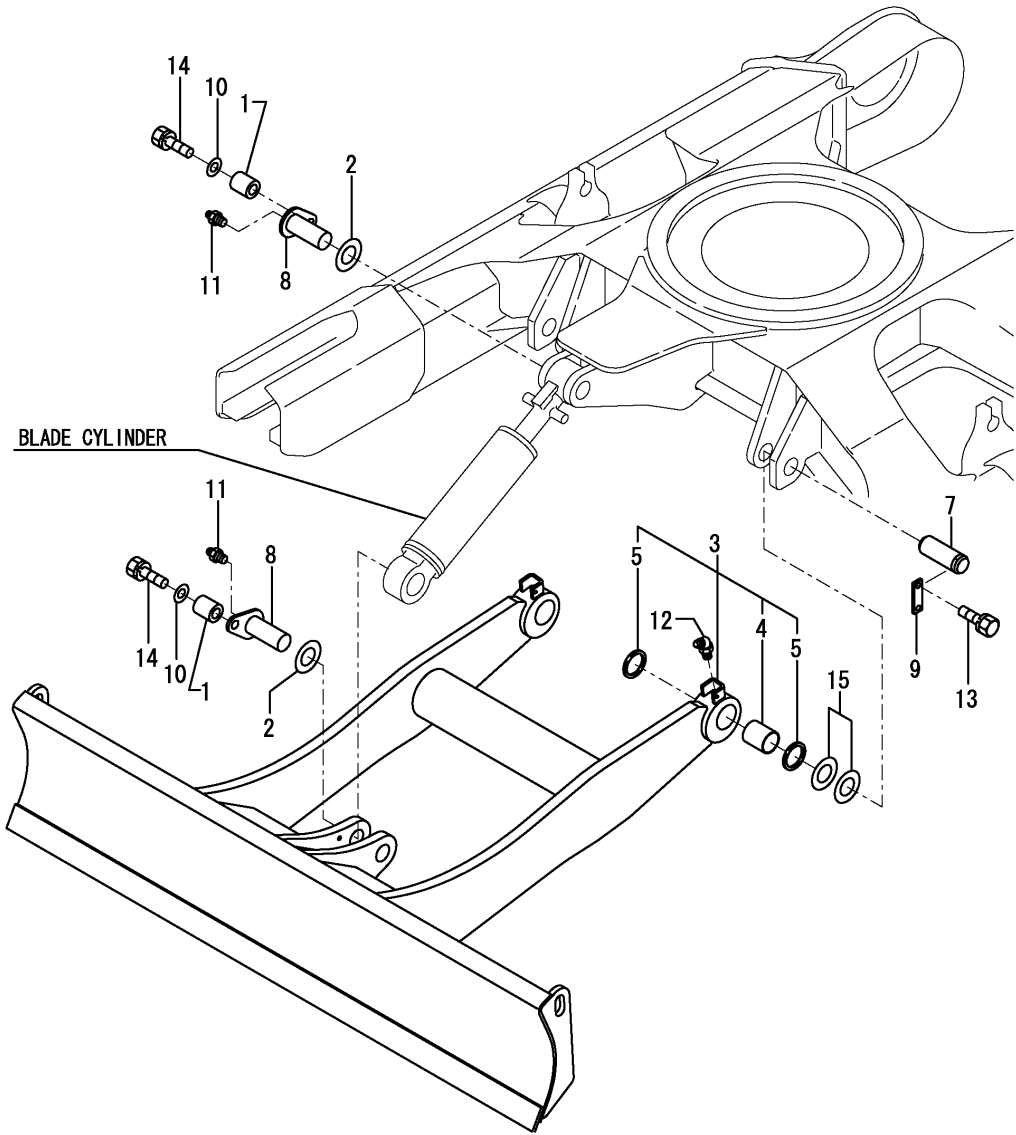


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17121	COLLAR, 9X4	3							
2	1	172124-46200	O-RING	1							
3	1	172958-83102-2	BRACKET	1							
3-1	1	172958-83102-Y (A=M56001)	BRACKET A	1							S
4	1	172958-83111-2	BRACKET	1							
4-1	1	172958-83111-Y (A=M56001)	BRACKET B	1							S
5	1	172958-83120	PIN	2							
6	1	172958-83130	PIN	1							
6-1	1	172958-83131 (A=M/#XXXXXX)	PIN	1							N
7	1	172958-83140	BOLT	3							
8	1	172958-83150	PIN ASSY	1							
9	1	172958-83171-2	PLATE, LOCK	1							
9-1	1	172958-83171-Y (A=M56001)	PLATE, LOCK	1							S
10	1	172958-83183	PIN ASSY, LOCK	1							
11	1	172960-83210	COLLAR	1							
12	1	172958-83220	PIN	1							
13	1	172958-83252	PLATE, RUBBER	1							
14	1	172958-83271-2	GUARD ASSY	1							
14-1	1	172958-83271-Y (A=M56001)	GUARD ASSY	1							S
15	1	172958-83281-2	GUARD ASSY	1							
15-1	1	172958-83281-Y (A=M56001)	GUARD ASSY	1							S
16	1	172958-83292-2	COVER, HITCH	1							
16-1	1	172958-83292-Y (A=M56001)	COVER, HITCH	1							S
17	1	172958-83330	WASHER	1							
18	1	172141-84601	SHIM	1							
22	1	22137-080000	WASHER, 8	3							
23	1	22137-100000	WASHER, 10	2							
24	1	22157-120000	WASHER, 12	1							
25	1	22242-000350	RING, 35	1							
26	1	22252-000250	RING, 25	2							
27	1	22252-000300	RING, 30	2							
28	1	24311-000480	O-RING, 1AP48.0	2							
29	1	24761-020000	NIPPLE, GREASE PT1/8	4							
30	1	26013-080162	BOLT, M8X 16	2							
31	1	26013-100202	BOLT, M10X 20	2							
32	1	26013-120302	BOLT, M12X 30	1							
33	1	26116-080202	BOLT, M8X 20 PLATED	3							
34	1	26116-100802	BOLT, M10X 80 PLATED	1							
35	1	26716-100002	NUT, M10	2							
36	1	26756-060002	NUT, LOCK M6	1							
37	1	933171-29751	SHIM SET	2							
40	1	172958-05100	CASE, PLUG	1							
41	1	172958-05110	RIVET	1							
42	1	1E3030-78370	CAP, SCREW	4							

Fig.85. (83A)BUCKET PIN(QUICK COUPLER)



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172958-81590	PIN KIT, BUCKET	2							
2	2	172958-81600	PIN ASSY	2							
3	2	172164-81700	COLLAR	2							
4	2	26116-100652	BOLT, M10X 65 PLATED	2							
5	2	26716-100002	NUT, M10	4							
6	2	933171-29751	SHIM SET	2							



(A)=VIO30-5B P(KR)
(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	172112-87860	SHIM	2							
3	1	172A25-94101-2	BLADE ASSY	1							
4	2	172168-72240	BUSH	2							
5	2	172168-81270	SEAL, DUST	4							
7	1	172422-94210	PIN	2							
8	1	172142-94241-W	PIN	2							
9	1	172124-94310-5	PLATE, LOCK	2							
10	1	22157-120000	WASHER, 12	2							
11	1	24761-020000	NIPPLE, GREASE PT1/8	2							
12	1	24761-040000	NIPPLE, GREASE B	2							
13	1	26013-100252	BOLT, M10X 25	4							
14	1	26013-120302	BOLT, M12X 30	2							
15	1	933171-29751	SHIM SET	2							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
119247-77100	16	12
119650-77910	16	14
119802-55710	11	12
119802-77200	16	13
119808-12540	4	8
119866-12530	4	7
121250-49121	8	4
121450-44531	8	11
121468-44510	8	9
121468-44540	8	12
121470-44581	8	14
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	74	13
	76	8
772441-37300-2	20	27
		27 -1
772458-37100-2	21	2
772458-37110-2	21	23
772458-37120-2	21	22
772458-37200-2	21	1
772A46-14100	10	1
772A46-75100	64	1
772A46-75110	64	25
772A46-75200	64	2
772A85-03300	1	1
772A85-03301	1	1 -1
933110-00301	15	6
933110-54100	25	3
	28	27
933111-20200	48	43
	49	44
933111-23600	21	20
		41
933111-26600	48	31
933111-73800	20	10
933125-94500	49	30
933147-03400	48	59
	49	52

Parts No.	Fig. No.	Ref. No.
933147-03400	50	46
	51	44
	90	37
933147-08501	33	23 -1
933152-02710	64	23
933160-01370	71	13
933168-14170	48	60
	49	53
	50	47
	51	45
	90	38
933168-55770	17	19
933171-13691	21	21
		42
	89	9
933171-15801	13	17
933171-29751	81	16
	82	15
	83	37
	84	15
	85	6

0CB10-M75001EN



Precautions

1. Some of the illustrations in this parts catalog are simplified.
2. Depending on the specifications of your product, the actual product and parts catalog may not match.
3. Please use genuine parts when repairing the product.
4. When ordering spare parts, please confirm the specifications (model name, serial number, part number, quantity, etc.) and confirm with your distributors or dealers.
5. Please refer to the user manual or service manual for information on how to replace parts, technical information, and other related details.
6. If you are using a booklet or PDF parts catalog, you must verify the latest information via the online parts catalog.

Disclaimer

1. Our company will not assume any responsibility for the matters stipulated in each of the following items.
 - 1) The contents provided in this parts catalog may not correspond with the latest products due to changes in regulations, product specifications, or other amendments.
 - 2) The illustrations of the products listed in this parts catalog (including 3D images) are for image purposes only and may differ from the actual product and specifications.
 - 3) This parts catalog does not guarantee conformity to the customer's requirements.
 - 4) In addition to the previous items, we do not guarantee the accuracy, completeness, assurance, applicability, usefulness, availability, safety or reliability of this parts catalog.
2. Our company assumes no responsibility whatsoever for any damage or disadvantage suffered by customers or others due to the addition, modification, suspension, cancellation, or discontinuation, etc., of the contents of this parts catalog. ("Damages" includes, but is not limited to, loss of opportunities for use of this parts catalog, as well as consequential damages, indirect damages, special damages, future damages and any loss of profits or any other disadvantages or damages.)
3. Customers are requested to use this parts catalog at their own risk. Our company assumes no responsibility whatsoever for any damages incurred by customers or other companies as a result of using or not using this parts catalog.
4. When using this parts catalog, you must comply with the laws and regulations applicable in the country or region in which you use it. Our company assumes no responsibility for any violations of laws and regulations by the customer.

Directions for the Parts Catalog.

1. This Parts Catalog shows both standard and optional parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601

29. FUEL INJECTION PUMP(W/BOOST)

①

REF.

②

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

(A) (B) (C) (D) (E) (F)

③

I

⑤

R

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	④	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 COMPENSATOR 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 Symbol

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

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$	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

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

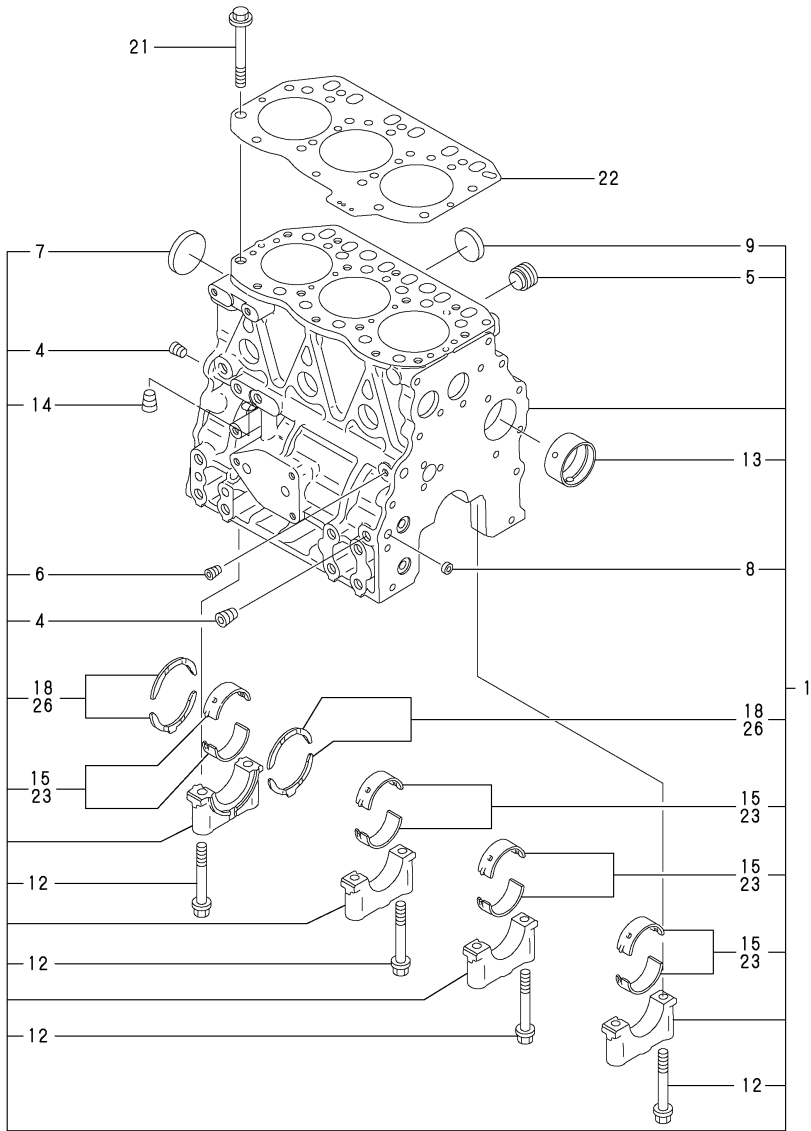
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

Contents

Fig. No.	Fig. Name
ENGINE SECTION (3TNV82A-NBV2)	
1.	CYLINDER BLOCK
2.	GEAR HOUSING
3.	FLYWHEEL HOUSING & OIL SUMP
4.	CYLINDER HEAD & BONNET
5.	SUCTION MANIFOLD
6.	EXHAUST MANIFOLD
7.	CAMSHAFT & DRIVING GEAR
8.	CRANKSHAFT & PISTON
9.	LUB.OIL SYSTEM
10.	COOLING WATER SYSTEM
11.	FUEL INJECTION PUMP
12.	GOVERNOR
13.	FUEL INJECTION VALVE
14.	FUEL LINE
15.	STARTING MOTOR
16.	GENERATOR(TO 2023.02)
18.	(16A)GENERATOR(FROM 2023.02)
17.	GASKET SET & TOOLS

Fig. No.	Fig. Name
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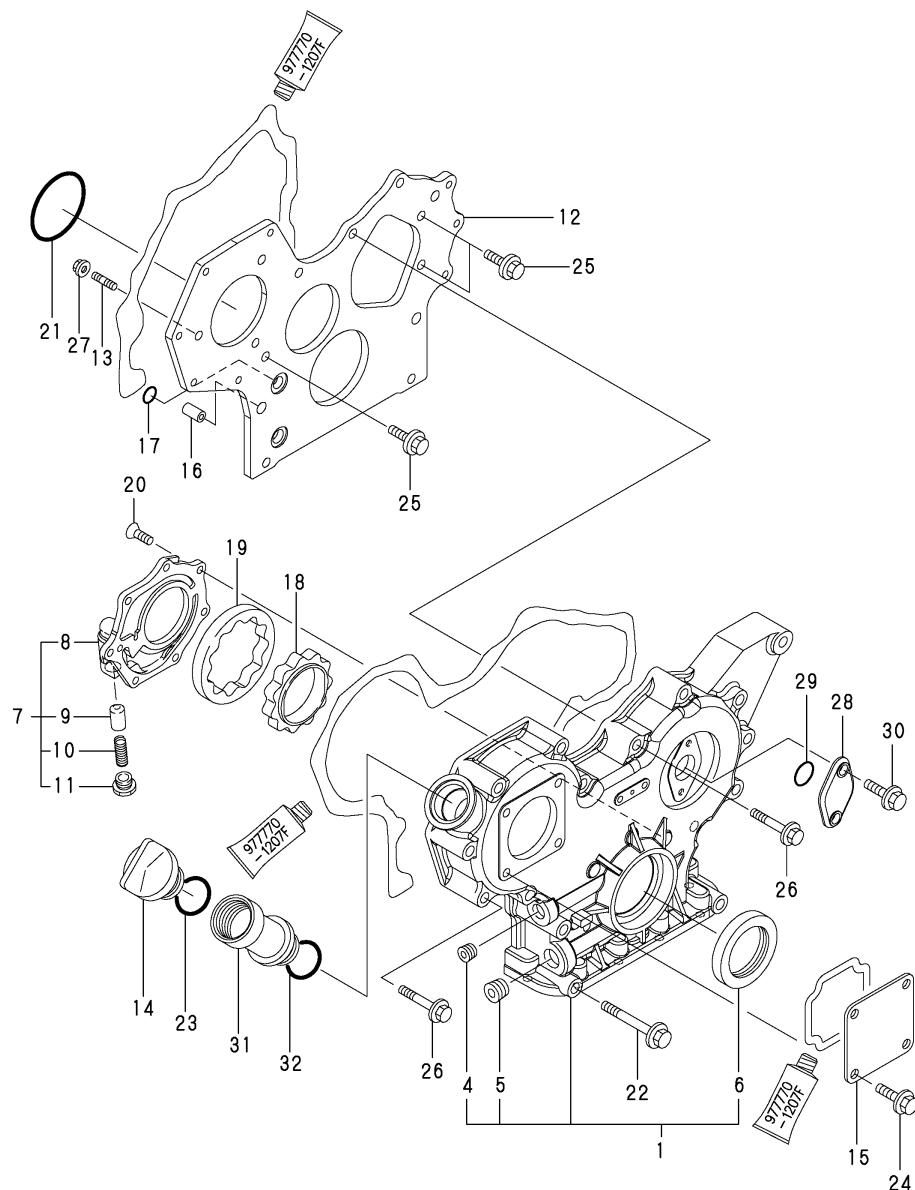
Fig.1. CYLINDER BLOCK



Remarks
(1)UNDER SIZED(U.S.=0.25)PART.
(2)OVER SIZED(O.S.=0.25)PART.
(3)REPAIR PART.

				(A)=3TNV82A-NBV2						0CB10-M75001 Fig.1	
				(D)=						(E)=	
				(F)=						(F)=	
				Q'ty						I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719802-01560	BLOCK ASSY, CYLINDER	1							
4	3	124160-01910	PLUG, PT1/4	2							
5	3	171051-01921	PLUG, NPTF1	1							
6	3	124060-01050	PLUG, PT1/8	1							
7	3	129001-01250	PLUG, 50	1							
8	3	27241-120000	PLUG, 12	2							
9	3	27241-300000	PLUG 30	6							
12	3	119620-02020	BOLT, METAL CAP	8							
13	3	129795-02412	BUSH, CAMSHAFT	1							
14	3	124160-01910	PLUG, PT1/4	1							
15	2	719810-02981	BEARING, MAIN	4							3
18	2	119810-02931	BEARING, THRUST	1							3
21	1	119810-01200	BOLT, HEAD	14							
22	1	119812-01330	GASKET, HEAD	1							
23	1	119810-02870	BEARING, 0.25 US	4							1
23-1	1	119810-02871	BEARING, 0.25 US	4						N	1
(A=E/#34514)											
26	1	119810-02940	BEARING, THRUST 0.25	2							2
26-1	1	119810-02941	BEARING, THRUST 0.25	2						N	2
(A=E/#34514)											

Fig.2. GEAR HOUSING

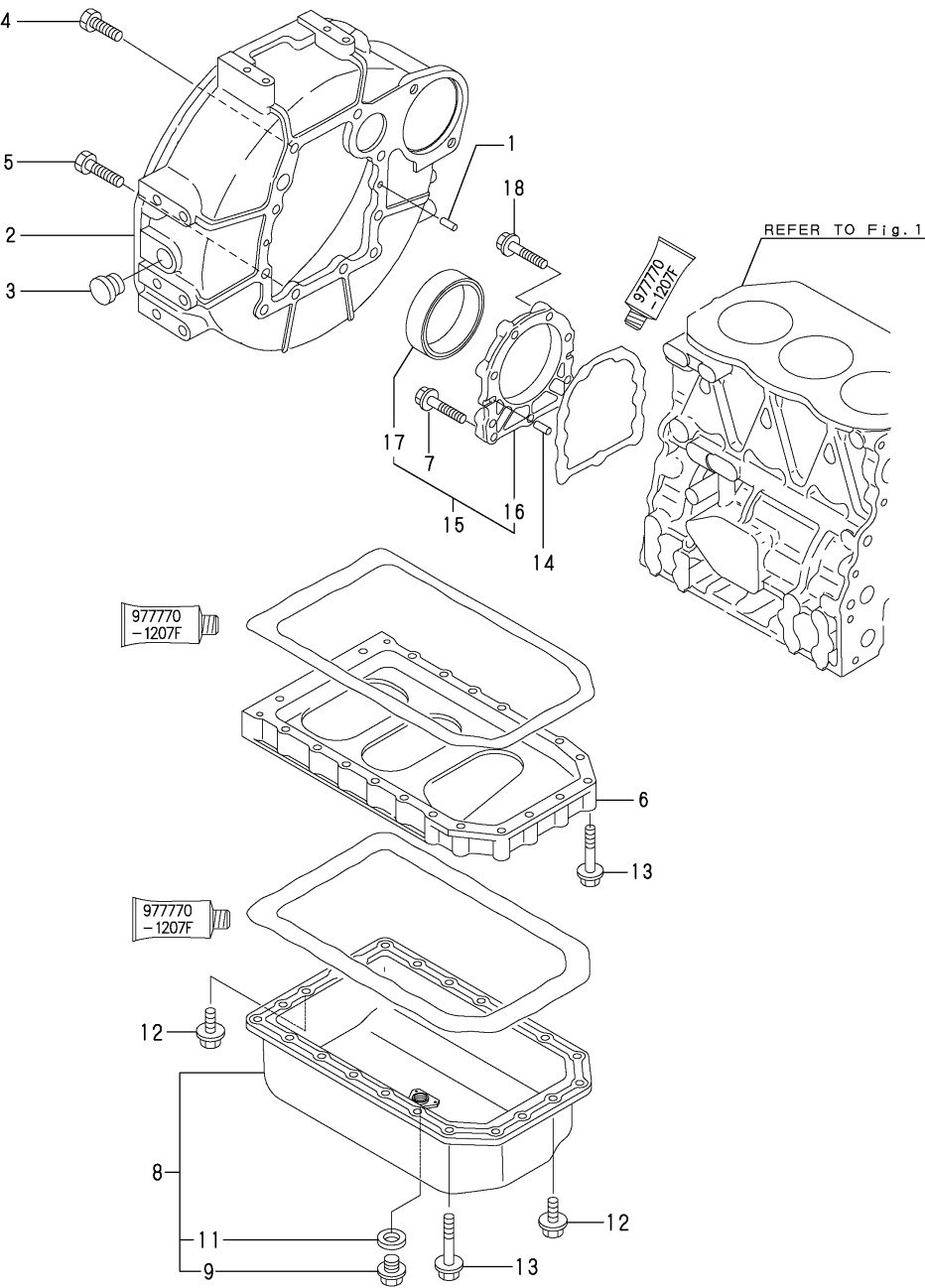


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719802-01500	CASE ASSY, GEAR	1							
4	2	23876-030000	PLUG, R03	1							
5	2	23876-040000	PLUG, R04	1							
6	2	129795-01800	SEAL, OIL	1							
6-1	2	119934-01800	SEAL, OIL	1							N
(A=FROM 1ST)											
7	1	119802-32100	COVER ASSY	1							
8	2	119802-32070	COVER	1							
9	2	129900-32130	VALVE, RELIEF	1							
10	2	129418-32320	SPRING	1							
11	2	129001-32330	PLUG	1							
12	1	119802-01520	FLANGE, GEAR CASE	1							
13	1	119802-01561	STUD, M8X25	3							
14	1	124160-01751	COVER, FILLER	1							
15	1	124240-01871	COVER	1							
16	1	129795-01950	PIPE, KNOCK L=18	2							
17	1	119609-32040	O-RING, P16	4							
18	1	119802-32111	ROTOR, INNER	1							
19	1	119802-32120	ROTOR, OUTER	1							
20	1	119802-32130	SCREW, M6X16	7							
21	1	121850-51960	O-RING	1							
22	1	129001-91841	BOLT, M8X85	3							
23	1	24311-000320	O-RING, 1AP32.0	1							
24	1	26106-080162	BOLT, M8X 16 PLATED	4							
25	1	26106-080162	BOLT, M8X 16 PLATED	3							
26	1	26106-080552	BOLT, M8X 55 PLATED	12							
27	1	26306-080002	NUT, M8	3							
28	1	121023-01551	COVER	1							
29	1	24341-000240	O-RING, 1AS24.0	1							
30	1	26106-060162	BOLT, M6X 16 PLATED	2							
31	1	171031-11741	PIPE	1							
32	1	24311-000320	O-RING, 1AP32.0	1							

Fig.3. FLYWHEEL HOUSING & OIL SUMP

(A)=3TNV82A-NBV2
(B)=
(C)=

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

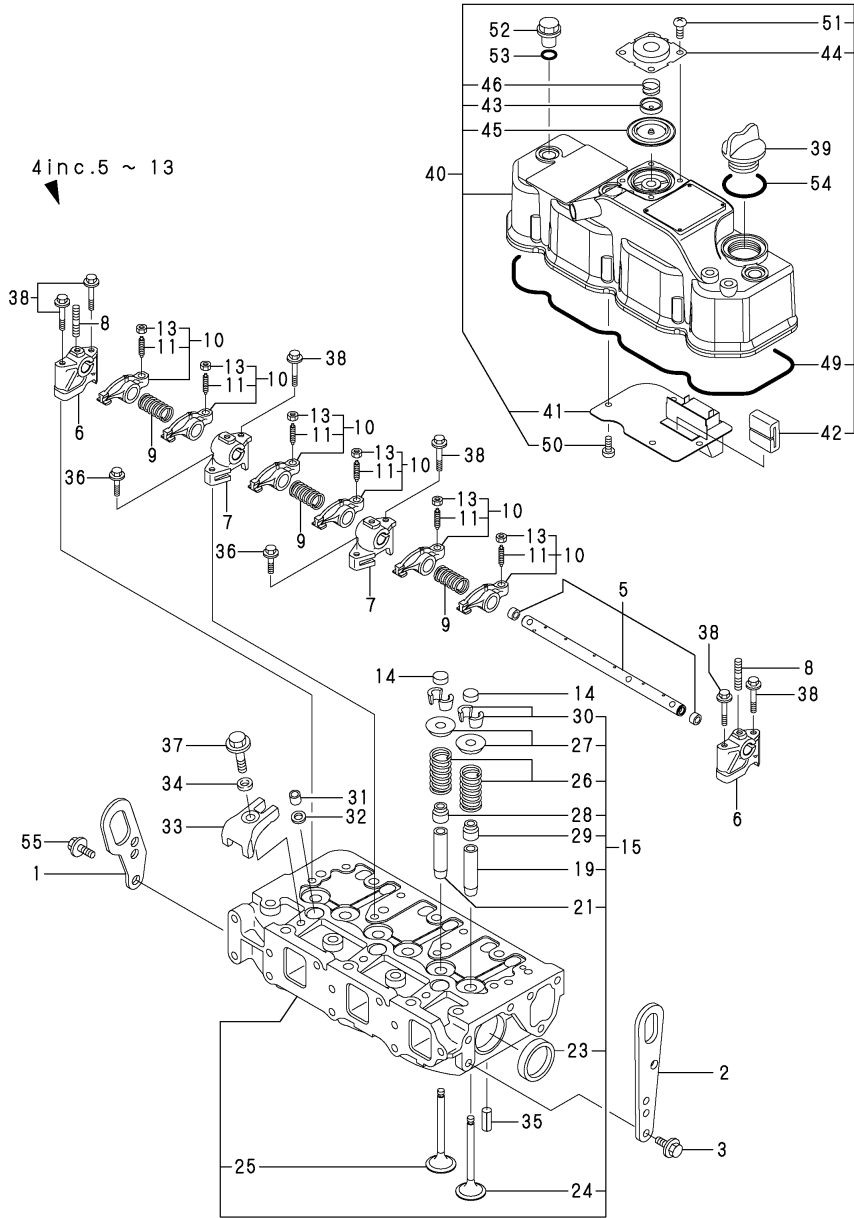


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	2							
2	1	129612-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	119810-01730	SPACER, OIL SUMP	1							
7	1	26106-080352	BOLT, M8X 35 PLATED	3							
8	1	119823-01770	SUMP ASSY, OIL	1							
9	2	119640-01640	PLUG, DRAIN M22	1							
11	2	22190-220002	WASHER, SEAL 22	1							
12	1	26106-080162	BOLT, M8X 16 PLATED	6							
13	1	26106-080452	BOLT, M8X 45 PLATED	22							
14	1	129100-01580	PIN, M8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
16	2	129150-01650	CASE, OIL SEAL	1							
17	2	129795-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT, M8X30	6							

Fig.4. CYLINDER HEAD & BONNET

(A)=3TNV82A-NBV2
(B)=
(C)=

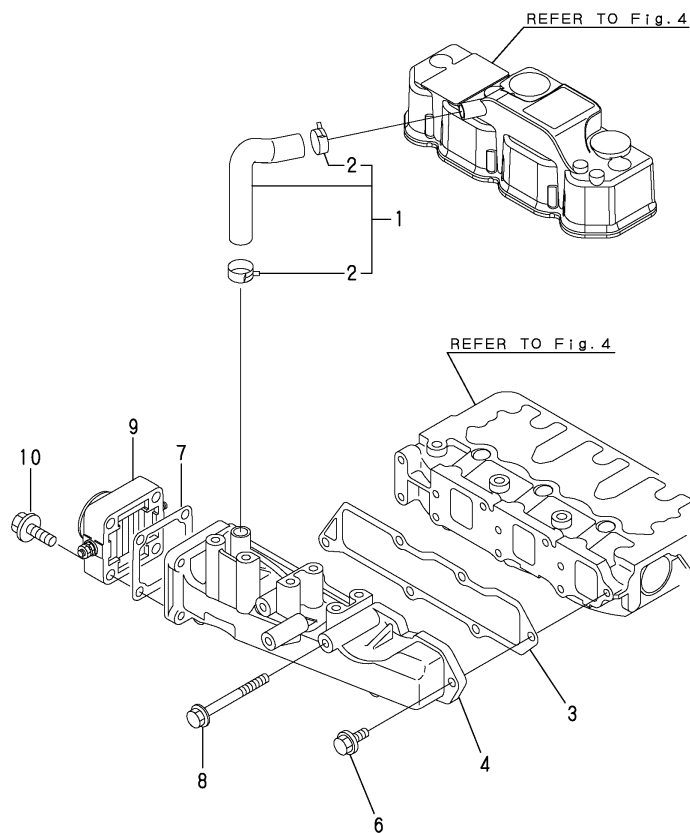
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119626-07900	LIFTER	1							
2	1	119940-07900	LIFTER	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	2							
4	1	119802-11241	SHAFT ASSY, ROCKER	1							
5	2	119802-11251	SHAFT, ROCKER ARM	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	2							
8	2	119802-11280	STUD	3							
9	2	129150-11280	SPRING	3							
10	2	119802-11650	ARM, ROCKER	6							
11	3	129150-11230	SCREW, VALVE ADJUST	6							
13	3	129150-11750	NUT, M8	6							
14	1	104211-11370	CAP, VALVE	6							
15	1	119802-11700	HEAD ASSY, CYLINDER	1							
19	2	124060-11800	GUIDE, VALVE	3							1
21	2	119802-11810	GUIDE, VALVE	3							1
23	2	27241-400000	PLUG, 40	2							
24	2	119802-11100	VALVE, INTAKE	3							
25	2	119802-11110	VALVE, EXHAUST	3							
26	2	119810-11120	SPRING, VALVE	6							
27	2	104211-11180	RETAINER, SPRING	6							
28	2	124160-11340	SEAL, VALVE STEM	3							
29	2	124950-11340	SEAL, VALVE STEM	3							
29-1	2	119803-11340	SEAL, VALVE STEM	3							N
(A=E/#37496)											
30	2	27310-070001	COTTER, 7	6							
31	1	119802-11870	PROTECTOR, NOZZLE	3							
32	1	119625-11880	SEAT, NOZZLE	3							
33	1	119802-11900	RETAINER, NOZZLE	3							
34	1	120270-54410	WASHER, INJECTOR	3							
35	1	22351-060012	PIN, SPRING 6.0X12	2							
36	1	26106-080252	BOLT, M8X 25 PLATED	2							
37	1	26106-080452	BOLT, M8X 45 PLATED	3							
38	1	26106-080502	BOLT, M8X 50 PLATED	6							
39	1	124160-01751	COVER, FILLER	1							
40	1	119802-11350	BONNET ASSY, HEAD	1							
41	2	119802-03010	PLATE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
49	2	119802-11310	GASKET, BONNET	1							
50	2	22857-500100	SCREW, 5X10	4							
51	2	22857-500100	SCREW, 5X10	4							
52	1	124160-11360	KNOB	3							
53	1	24311-000120	O-RING, 1AP12.0	3							
54	1	24311-000320	O-RING, 1AP32.0	1							
55	1	26106-080162	BOLT, M8X 16 PLATED	2							

Remarks
(1)REPAIR PART.

Fig.5. SUCTION MANIFOLD



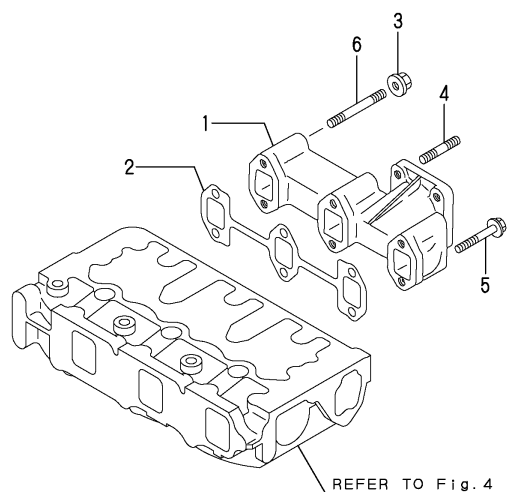
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-03080	PIPE , BREATHER	1							
2	2	129410-03990	CLIP	2							
3	1	119813-12110	GASKET, MANIFOLD	1							
4	1	119802-12100	MANIFOLD, AIR INTAKE	1							
6	1	26106-080202	BOLT, M8X 20 PLATED	4							
7	1	129150-77511	GASKET	1							
8	1	26106-080802	BOLT, M8X 80 PLATED	2							
9	1	129120-77501	HEATER	1							
9-1	1	129120-77502	HEATER	1							N
(A=E/#41939)											
10	1	26106-080352	BOLT, M8X 35 PLATED	4							

Fig.6. EXHAUST MANIFOLD

(D)=

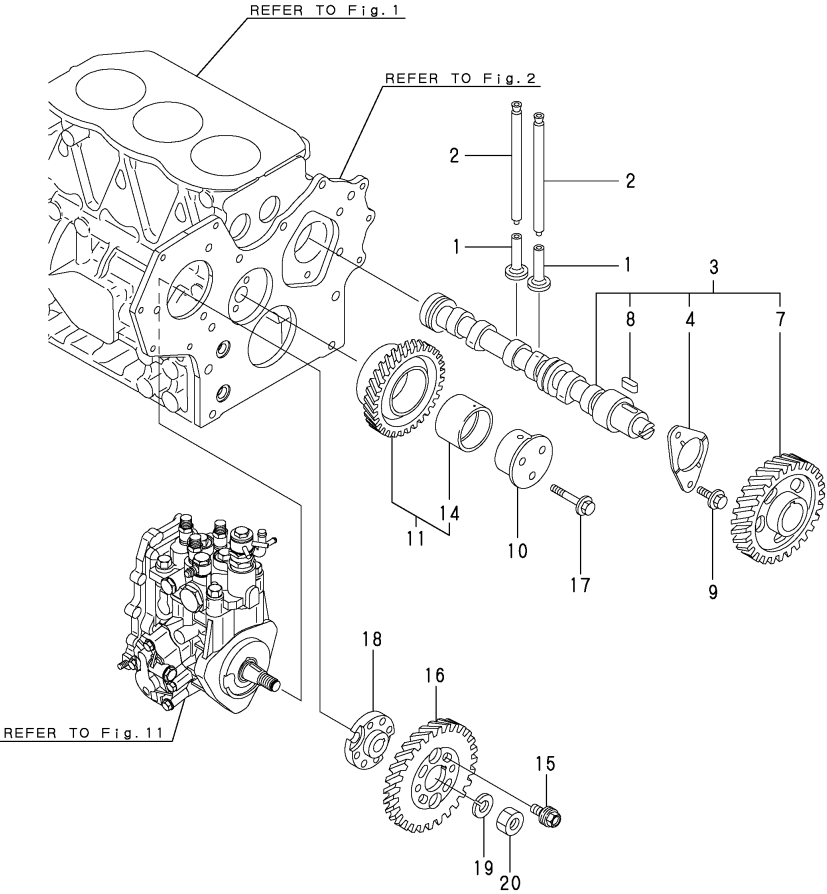
$$(E)=$$
$$(F)=$$

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-13100	MANIFOLD, EXHAUST	1							
2	1	119810-13110	GASKET	1							
3	1	26306-080002	NUT, M8	2							
4	1	119131-18320	STUD, M8X22	4							
5	1	119802-13640	BOLT, M8X60 10.9T	4							
6	1	119802-13740	STUD, M8X60	2							



(A)=3TNV82A-NBV2
(B)=
(C)=

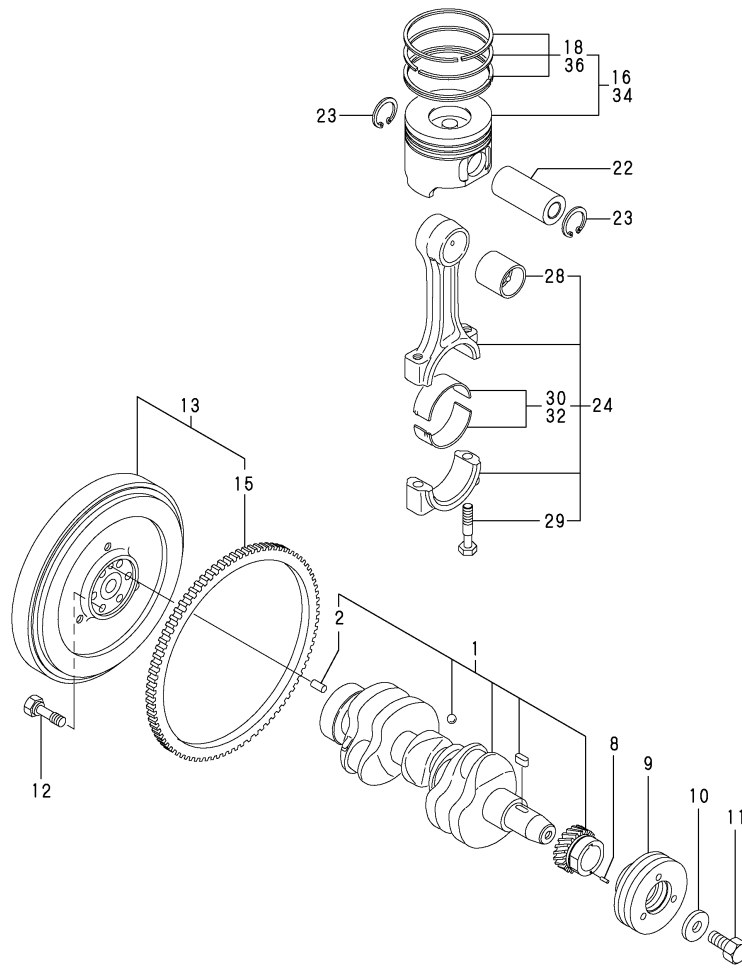
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	ROD, PUSH	6							
3	1	119802-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY, 7X 14	1							
9	1	26106-080142	BOLT, M8X 14 PLATED	2							
10	1	119802-25051	SHAFT, IDLE	1							
11	1	119802-25101	GEAR ASSY, IDLE	1							
14	2	119802-25071	BUSH, IDLE GEAR	1							1
15	1	129150-25301	BOLT	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	26106-080402	BOLT, M8X 40 PLATED	3							
18	1	158552-51151	FLANGE	1							
19	1	22217-140000	WASHER, SPRING 14	1							
20	1	26776-140002	NUT, LOCK M14	1							

Remarks
(1)REPAIR PART.

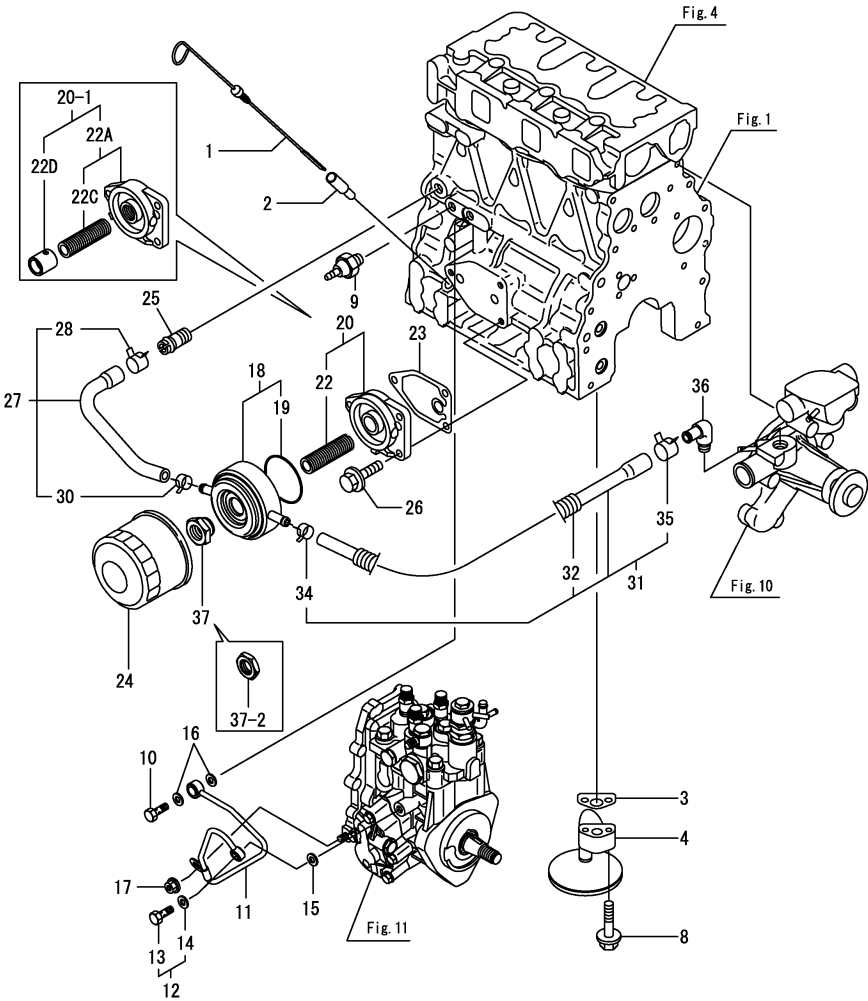
Fig.8. CRANKSHAFT & PISTON



				(A)=3TNV82A-NBV2					(D)=	
				(B)=					(E)=	
				(C)=					(F)=	
No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	119802-21002	CRANKSHAFT ASSY	1						
2	2	129100-01580	PIN, M8X16	1						
8	1	22351-030010	PIN, SPRING 3.0X10	1						
9	1	119802-21660	V-PULLEY, 120	1						
10	1	129795-21661	WASHER	1						
11	1	121850-21680	BOLT	1						
12	1	121111-21501	BOLT, FLYWHEEL	6						
13	1	119940-21590	FLYWHEEL ASSY	1						
15	2	119865-21600	GEAR, RING	1						
16	1	119802-22080	PISTON ASSY	3						
18	2	119802-22500	RING SET, PISTON	3						
22	1	119813-22300	PIN, PISTON	3						
23	1	129792-22400	CIRCLIP, 23	6						
24	1	719810-23100	ROD ASSY, CONNECTING	3						
28	2	119810-23910	BEARING, PISTON PIN	3						1
29	2	119810-23200	BOLT, CONNECTING ROD	6						
30	2	119810-23601	BEARING, CRANK PIN	3						1
32	1	119810-23611	BEARING, 0.25 US	3						2
34	1	119802-22900	PISTON ASSY, 0.25 OS	3						3
36	2	119802-22950	RING SET, 0.25 OS	3						3

Remarks
(1)REPAIR PART.
(2)UNDER SIZED(U.S.=0.25)PART.
(3)OVER SIZED(O.S.=0.25)PART.

Fig.9. LUB.OIL SYSTEM



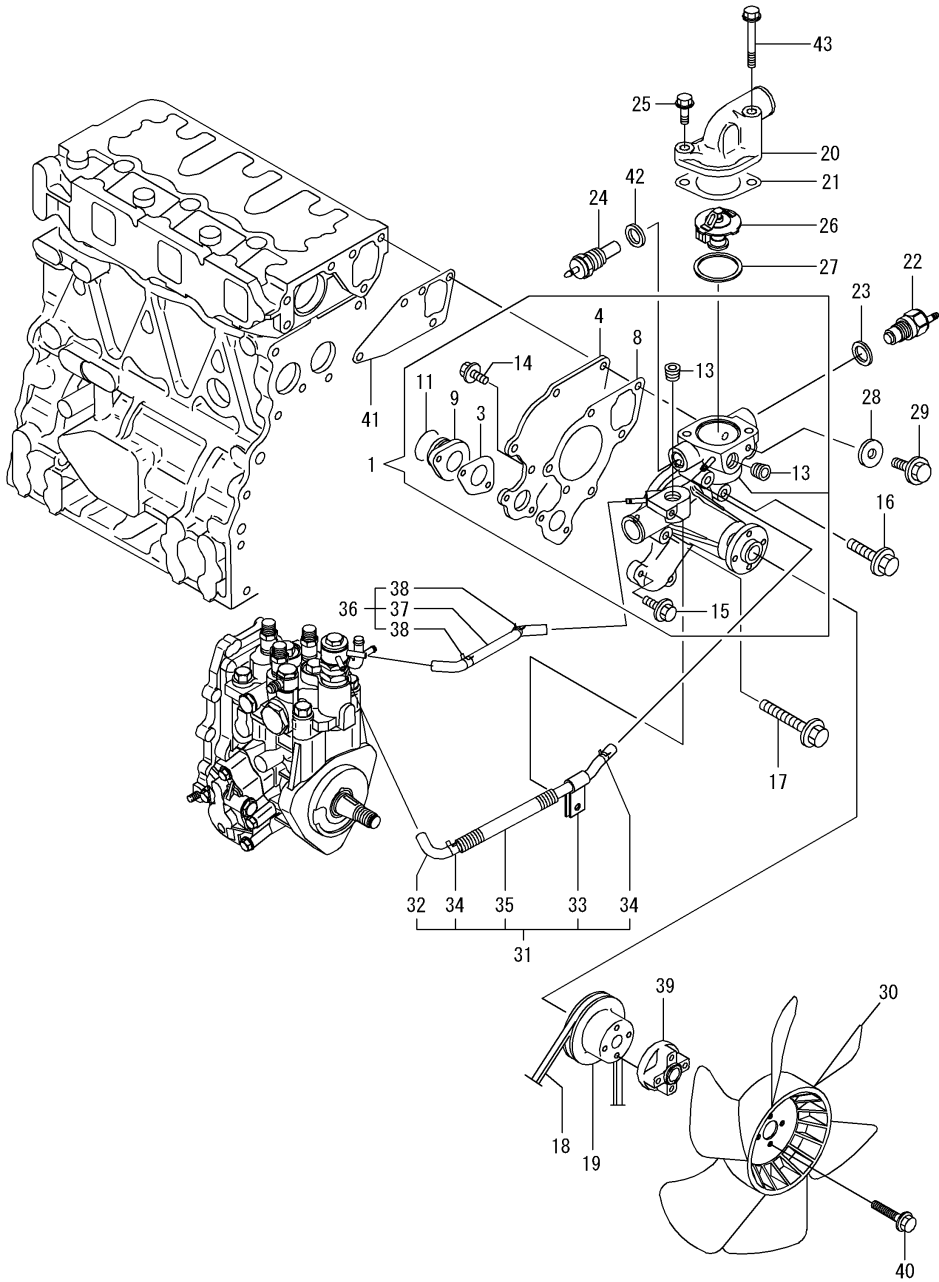
Remarks
(1)Spare parts.
(2)No.18-1, 20-1 & 37-2 are interchangeable by set.

				(A)=3TNV82A-NBV2 (B)= (C)=	OCB10-M75001 Fig.9		(D)= (E)= (F)=			
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I R
1	1	119802-34802	DIPSTICK, OIL	1						
2	1	121520-34810	GUIDE, DIPSTICK	1						
3	1	129150-35042	GASKET, INLET PIPE	1						
4	1	119810-35300	PIPE ASSY, OIL INLET	1						
8	1	26106-080352	BOLT, M8X 35 PLATED	2						
9	1	114250-39450	SWITCH, HYDRAULIC	1						
10	1	124160-39140	BOLT, PIPE JOINT M10	1						
11	1	119802-39450	PIPE ASSY, OIL	1						
12	1	129005-59830	BOLT ASSY, JOINT M8	1						
13	2	23857-030000	BOLT, JOINT 3	1						
14	2	22190-080002	WASHER, SEAL 8	1						
15	1	22190-080002	WASHER, SEAL 8	1						
16	1	22190-100002	WASHER, SEAL 10	2						
17	1	26366-060002	NUT, M6	1						
18	1	129508-33010	COOLER ASSY, OIL	1						
18-1	1	129508-33031	COOLER ASSY, OIL	1						Q 2
(A=EE8084)										
19	2	129508-33050	O-RING	1						
19-1	2	129508-33060	GASKET, COOLER	1						Q
(A=EE8084)										
20	1	129006-35100	BRACKET ASSY, FILTER	1						
20-1	1	129508-35100	BRACKET ASSY,LO FILT	1						Q 2
(A=EE8084)										
22	2	129417-35150	STUD, M20X67	1						Z
(A=EE8084)										
22A	2	129006-35100	BRACKET ASSY, FILTER	1						W
(A=EE8084)										
22C	3	129417-35150	STUD, M20X67	1						W
(A=EE8084)										
22D	2	129508-35150	COLLAR, OIL-COOLER	1						W
(A=EE8084)										
23	1	129150-35111	GASKET, BRACKET	1						
24	1	129150-35170	FILTER ASSY, D80X80L	1						
25	1	129122-44480	JOINT, PT1/4	1						
26	1	26106-080202	BOLT, M8X 20 PLATED	3						
27	1	129508-49030	HOSE ASSY, COOLER IN	1						
28	2	171008-03990	CLAMP, HOSE 18.5	1						
30	2	23080-015000	CLAMP, 15	1						
31	1	129508-49040	HOSE ASSY,COOLER OUT	1						
32	2	119940-59130	TUBE, CORRUGATED 19	1						
34	2	23080-015000	CLAMP, 15	1						
35	2	23080-018000	CLAMP, 18	1						
35-1	2	171008-03990	CLAMP, HOSE 18.5	1						N
(A=E/#54045)										
36	1	119944-49300	ELBOW, PT3/8	1						
37	1	129417-33110	NUT, OIL COOLER	1						
37-1	1	129417-33111	NUT, OIL COOLER	1						R
(A=EA1363)										
37-2	1	124085-35350	NUT, M20	1						Q 2
(A=EE8084)										

Fig.10. COOLING WATER SYSTEM

(A)=3TNV82A-NBV2
(B)=
(C)=

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



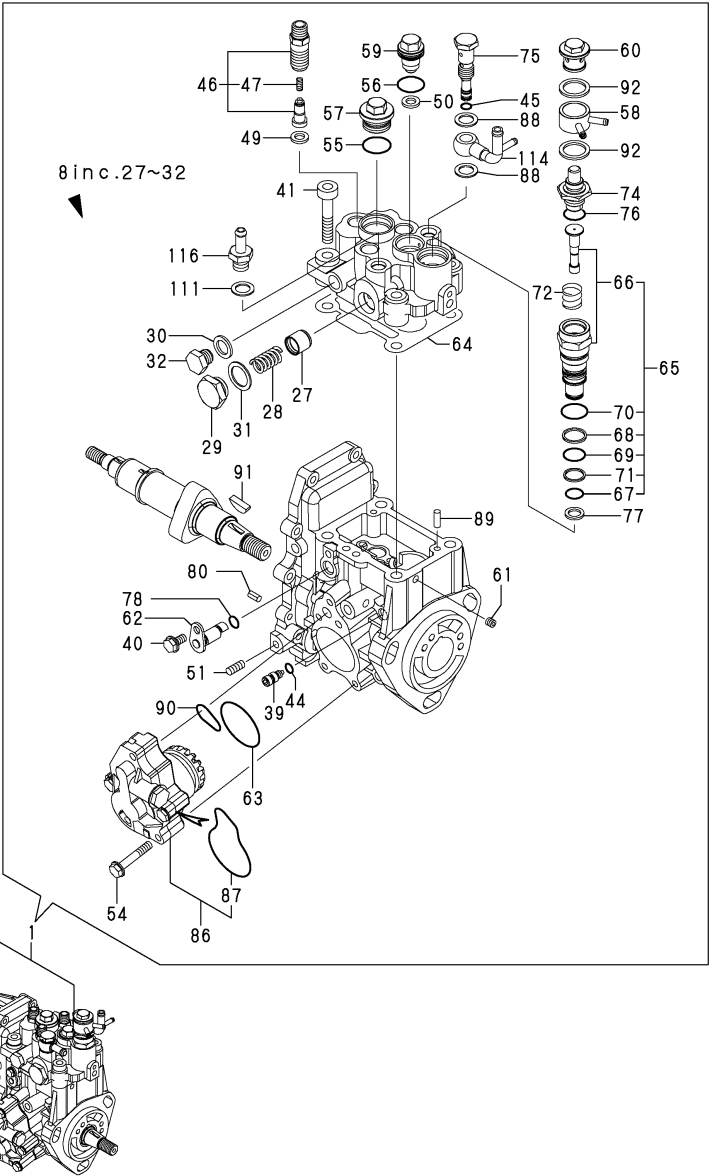
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-42000	PUMP ASSY, WATER	1							
1-1	1	119802-42001	PUMP ASSY, WATER	1						S	
(A=E/#45117)											
3	2	119810-42281	GASKET, WATER PUMP	1							
4	2	119810-42120	PLATE	1							
8	2	119810-42051	GASKET, WATER PUMP	1							
9	2	119810-42290	PIPE	1							
11	2	129054-42320	O-RING	1							
13	2	23871-030000	PLUG, R03	2							
14	2	26106-060142	BOLT, M6X 14 PLATED	2							
15	2	26106-060202	BOLT, M6X 20 PLATED	2							
16	1	26106-080352	BOLT, M8X 35 PLATED	1							
17	1	26106-080552	BOLT, M8X 55 PLATED	3							
18	1	128695-44780	V-BELT, A39.5	1							
19	1	129403-42380	V-PULLEY, D=110	1							
20	1	124101-49531	COVER, THERMOSTAT	1							
21	1	129795-49551	GASKET	1							
22	1	121250-44901	SWITCH, 110	1							
23	1	124465-44950	GASKET, 16	1							
24	1	171056-49351	SENSOR	1							
25	1	26106-080252	BOLT, M8X 25 PLATED	1							
26	1	129155-49801	THERMOSTAT, 71	1							
27	1	129150-49811	GASKET, THERMOSTAT	1							
28	1	23414-080000	GASKET, 8X1.0	1							
29	1	26106-080122	BOLT, M8X 12 PLATED	1							
30	1	119831-44740	FAN, COOLING D322XUC	1							
31	1	119802-49610	PIPE ASSY, WATER	1							
32	2	119802-49711	PIPE ASSY, WATER	1							
33	2	119802-49730	RETAINER, PIPE	1							
34	2	124722-59050	CLIP, HOSE 9	2							
35	2	119802-59320	TUBE, CORRUGATED	1							
36	1	119802-49620	PIPE ASSY, WATER	1							
37	2	119802-49721	PIPE ASSY, WATER	1							
38	2	124722-59050	CLIP, HOSE 9	2							
39	1	129457-44760	SPACER, FAN	1							
40	1	26106-060502	BOLT, M6X 50 PLATED	4							
41	1	129486-42050	GASKET, WATER PUMP	1							
42	1	129150-49360	GASKET	1							
43	1	26106-080652	BOLT, M8X 65 PLATED	1							

Fig.11. FUEL INJECTION PUMP

(A)=3TNV82A-NBV2
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719940-51420	PUMP ASSY, INJECTION	1							1
8	3	119940-51740	HEAD ASSY	1							
8-1	3	119940-51741	HEAD ASSY	1							R
(A=E/#36435)											
27	4	158601-51770	PISTON	1							
28	4	158552-51780	SPRING	1							
28-1	4	158552-51781	SPRING	1							N
(A=E/#39694)											
29	4	158601-51790	PLUG	1							
30	4	22190-120002	WASHER, SEAL 12	1							
31	4	22190-180002	WASHER, SEAL 18	1							
32	4	23887-120002	PLUG, 12	1							
39	3	158600-51270	STOPPER, TAPPET	1							
40	3	26106-060102	BOLT, M6X 10 PLATED	1							
41	3	26450-080452	BOLT, M8X 45	4							
44	3	158563-51281	O-RING, 4D S6	1							
45	3	158563-51281	O-RING, 4D S6	1							
46	3	129509-51390	VALVE ASSY, DELIVERY	3							W
(A=*2008.02.)											
47	4	158563-51330	SPRING, DELIVERY	3							
49	3	158552-51570	GASKET	3							
50	3	158552-51570	GASKET	1							
51	3	26216-060162	STUD, M6X 16	1							
54	3	158553-51770	BOLT	4							
55	3	24356-010200	O-RING, 4D1020	1							
56	3	24356-010180	O-RING, 4D1018	1							
57	3	158601-51550	PLUG	1							
58	3	158553-51551	JOINT	1							
59	3	119802-51560	PLUG, BARREL	1							
60	3	158601-51570	PLUG	1							
61	3	158557-51570	PLUG	1							
62	3	158552-51580	LIFTER	1							
63	3	158552-52400	O-RING, 4E S42	1							
64	3	158552-51600	GASKET	1							
65	3	119802-51590	TIMER SET	1							
66	4	119802-51600	TIMER ASSY	1							
67	4	158553-51670	O-RING, 1011	1							
68	4	119802-51680	RING, BACK UP	1							
69	4	119802-51690	O-RING	1							
70	4	24356-010200	O-RING, 4D1020	1							
71	4	24372-000150	RING, BACK UP T2P15	1							
72	3	158553-51630	SPRING, TIMER	1							
74	3	158553-51640	ELEMENT	1							
75	3	158601-51650	JOINT, OVER FLOW	1							
76	3	158553-51660	O-RING, P14	1							
77	3	158553-51680	GASKET	1							
78	3	24311-000070	O-RING, 1AP7.0	1							
80	3	22351-050010	PIN, SPRING 5.0X10	2							
86	3	158552-52100	PUMP ASSY, FUEL FEED	1							
87	4	158552-52500	O-RING	1							
88	3	22190-120002	WASHER, SEAL 12	2							



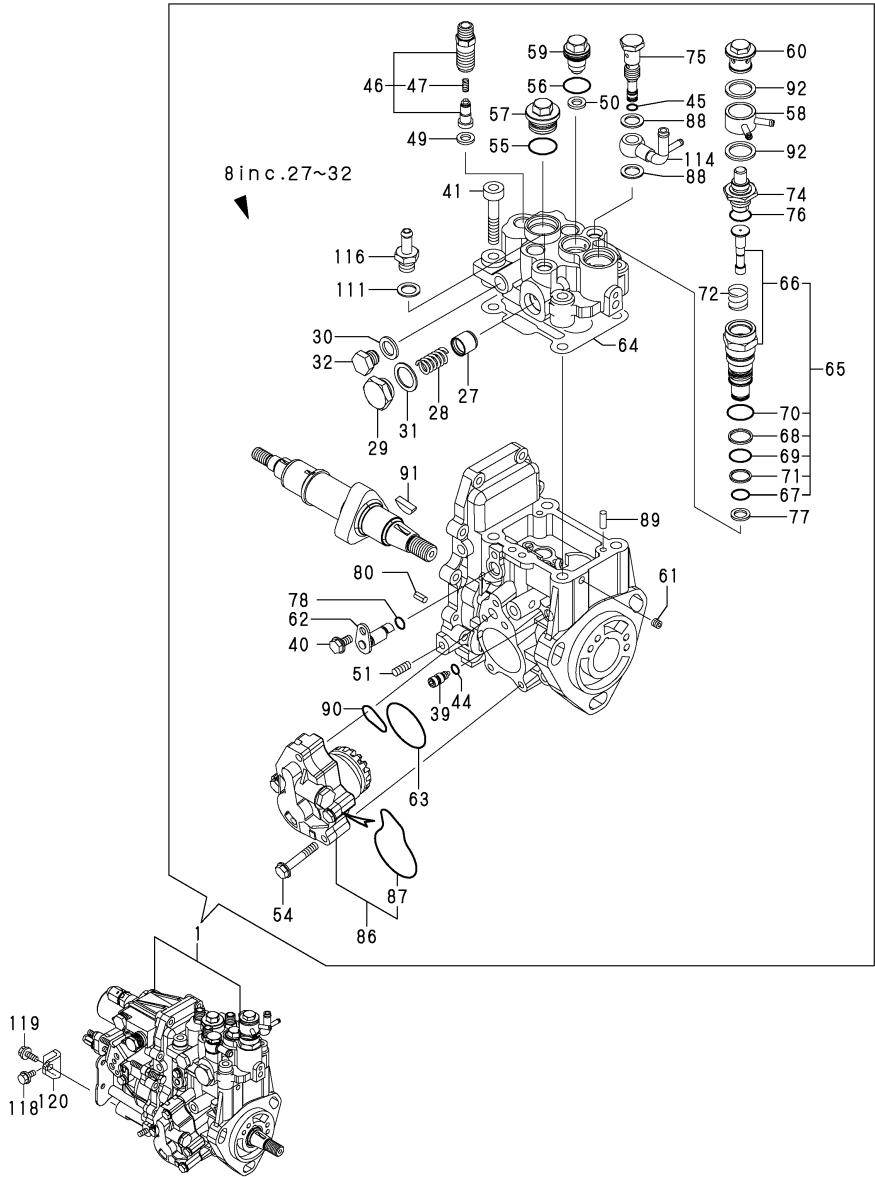
Remarks
(1)GOVERNOR ASSY(FIG.12)IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1)

Fig.11. FUEL INJECTION PUMP

(A)=3TNV82A-NBV2
(B)=
(C)=

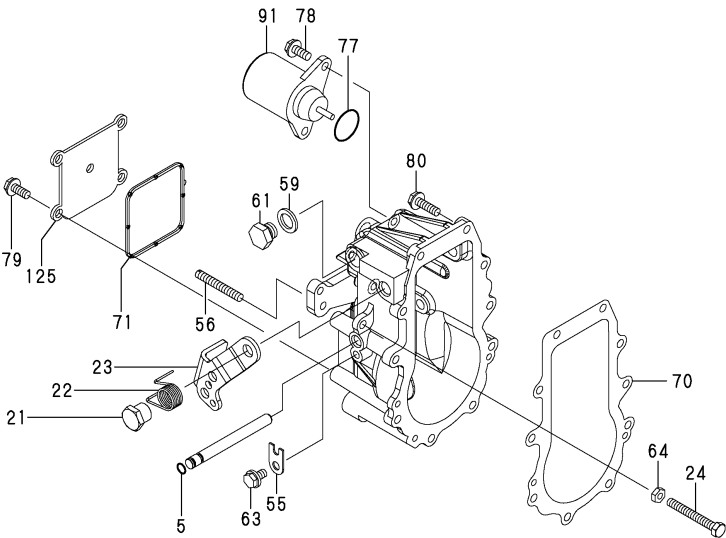
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
89	3	22312-050140	PIN, PARALLEL M5X14	2							
90	3	158552-52310	O-RING	1							
91	3	119802-51090	KEY, 4X16	1							
92	3	22190-180002	WASHER, SEAL 18	2							
111	3	22190-120002	WASHER, SEAL 12	1							
114	2	158552-51670	JOINT, OVER FLOW	1							
116	2	119934-59910	JOINT, PIPE	1							
118	1	26106-080162	BOLT, M8X 16 PLATED	1							
119	1	26106-080202	BOLT, M8X 20 PLATED	1							
120	1	119802-51250	RETAINER, PUMP	1							



Remarks
(1)GOVERNOR ASSY(FIG.12)IS
INCORPORATED IN THIS FUEL
INJECTION PUMP.(REF.NO.1)

Fig.12. GOVERNOR



Remarks
* THIS FIGURE(GOVERNOR ASSY)IS
INCORPORATED IN THE FUEL INJECTION
PUMP ASSY(FIG.11).

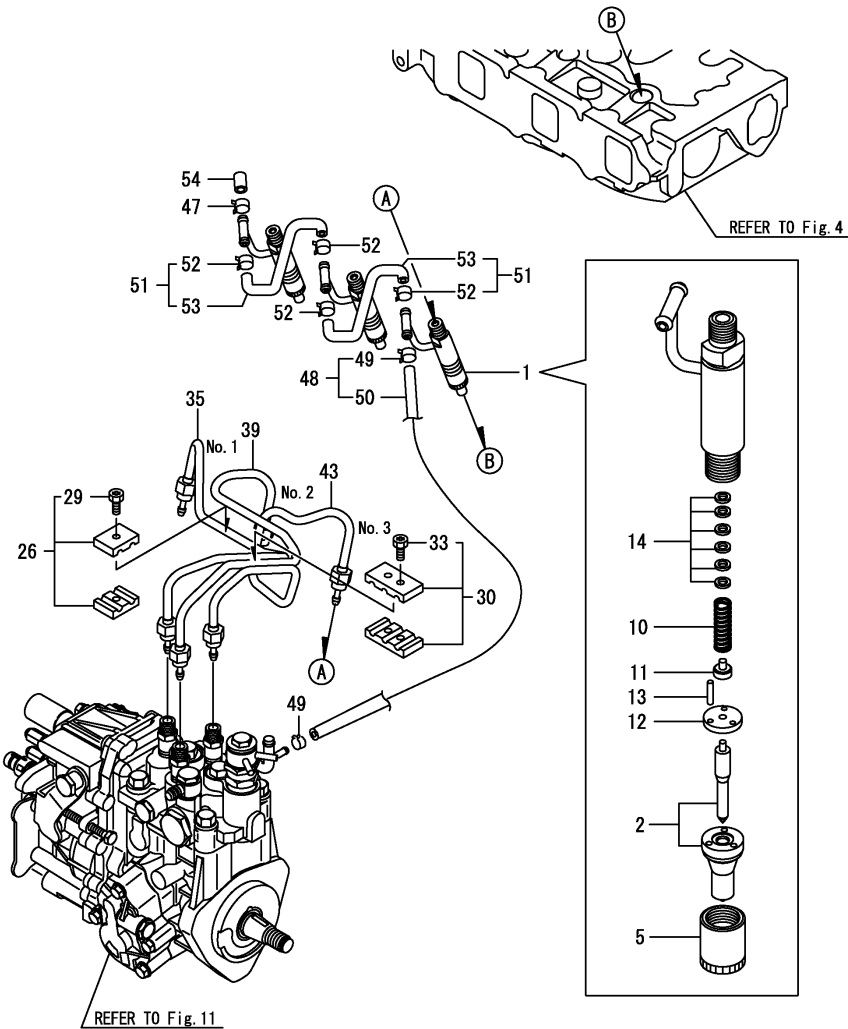
(A)=3TNV82A-NBV2
(B)=
(C)=
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
5	4	129155-51280	O-RING, S6	1							
21	4	129255-61410	NUT, LOCK	1							
22	4	119807-61420	SPRING, RETURN	1							
23	4	158552-61441	LEVER, REGULATOR	1							
24	4	129155-61460	BOLT, IDLE	1							
55	4	119660-61901	RETAINER, SHAFT	1							
56	4	171002-66830	SCREW	1							
59	4	22190-120000	WASHER, SEAL 12	1							
61	4	23887-120002	PLUG, 12	1							
63	4	26106-060102	BOLT, M6X 10 PLATED	1							
64	4	26756-060002	NUT, LOCK M6	1							
70	3	158553-61050	GASKET	1							
71	3	158553-61070	GASKET	1							
77	3	158552-61900	O-RING	1							
78	3	26106-060142	BOLT, M6X 14 PLATED	2							
79	3	26106-060142	BOLT, M6X 14 PLATED	4							
80	3	26106-060202	BOLT, M6X 20 PLATED	10							
91	2	119233-77932	SOLENOID, STOP	1							
125	2	129642-61060	COVER, GOVERNOR CASE	1							

Fig.13. FUEL INJECTION VALVE

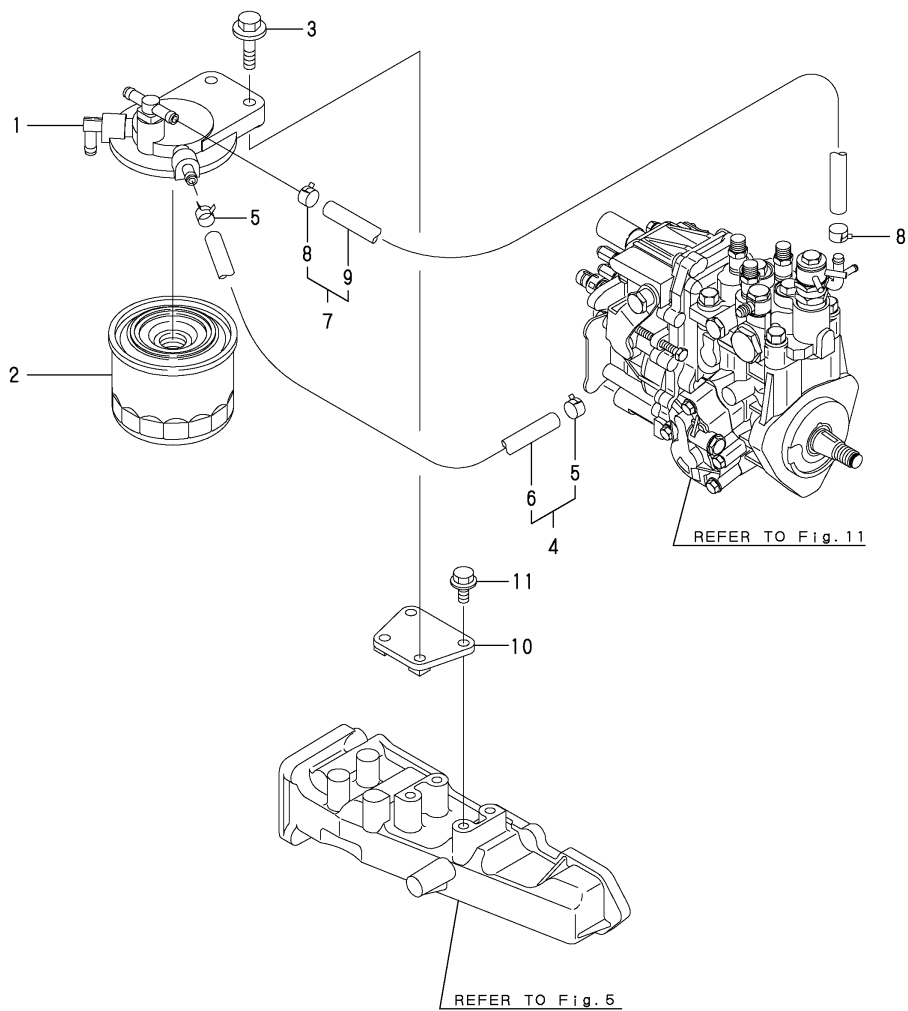
(A)=3TNV82A-NBV2
(B)=
(C)=

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



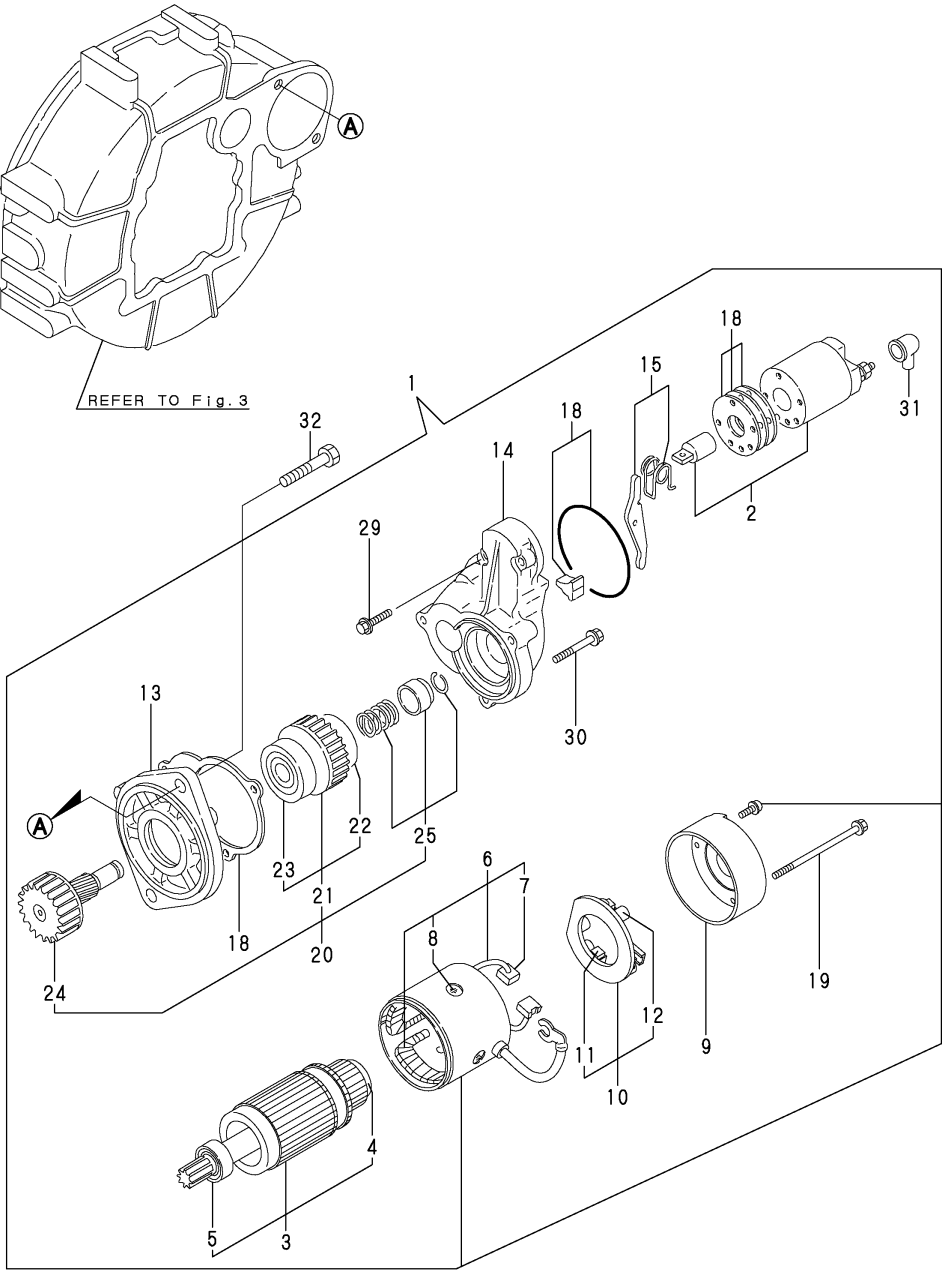
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729240-53200	VALVE ASSY,INJECTION	3							
2	2	129240-53001	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE D16.95	3							
10	2	114250-53120	SPRING, NOZZLE	3							
11	2	114250-53130	SEAT, SPRING	3							
12	2	114250-53140	PLATE	3							
13	2	114250-53210	PIN	6							
14	2	114250-53400	SHIM SET	3							
14-1	2	119803-53400	SHIM SET	3							R
(A=E/#52609)											
26	1	119305-59120	RETAINER, PIPE	1							
29	2	129150-59131	BOLT, M4X14	1							
30	1	129150-59120	RETAINER, PIPE	1							
33	2	129150-59131	BOLT, M4X14	2							
35	1	119802-59810	PIPE ASSY, INJECTION	1							
39	1	119802-59820	PIPE ASSY, INJECTION	1							
43	1	119802-59830	PIPE ASSY, INJECTION	1							
47	1	124066-59100	CLIP, HOSE 8	2							
48	1	119802-59550	PIPE ASSY, RETURN	1							
49	2	124722-59050	CLIP, HOSE 9	2							
50	2	119802-59560	PIPE, FUEL RETURN	1							
51	1	129486-59551	PIPE ASSY, RETURN	2							
52	2	124722-59050	CLIP, HOSE 9	4							
53	2	129486-59510	PIPE, FUEL RETURN	2							
54	1	119593-59581	CAP	1							

Fig.14. FUEL LINE



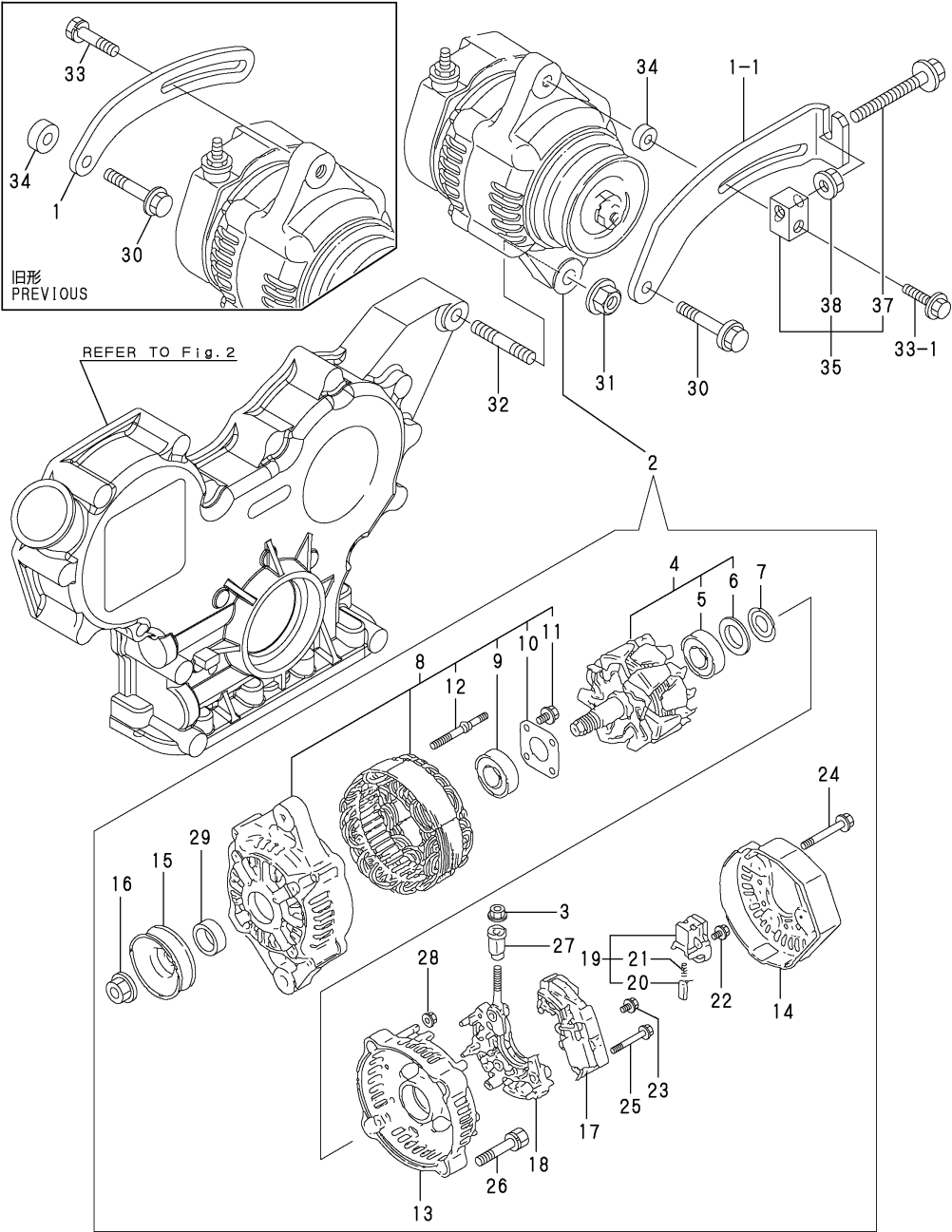
No.	Lev.	Parts No.	Description	(A)=3TNV82A-NBV2		(D)=		(E)=		I	R
				(B)=	(C)=	(C)	(D)	(E)	(F)=		
1	1	129004-55612	BRACKET, FILTER			1					
2	1	119802-55810	FILTER,FO			1					
3	1	26106-080302	BOLT, M8X 30 PLATED			2					
4	1	129210-59040	PIPE ASSY, FUEL			1					
5	2	124766-59050	CLIP, HOSE 12			2					
6	2	129555-59510	PIPE, D13/7.5X180			1					
7	1	129210-59050	PIPE ASSY, FUEL			1					
8	2	124766-59050	CLIP, HOSE 12			2					
9	2	105312-59510	PIPE, FUEL			1					
10	1	119940-55620	BRACKET, FILTER			1					
11	1	26106-080202	BOLT, M8X 20 PLATED			2					

Fig.15. STARTING MOTOR



							Q'ty						I R	
							(A)	(B)	(C)	(D)	(E)	(F)		
No.	Lev.	Parts No.	Description											
1	1	129136-77011	STARTER				1							
2	2	129136-77310	SWITCH ASSY				1							
3	2	129900-77400	ARMATURE ASSY				1							
4	3	X2130350900	BEARING, BALL				1							
5	3	X2114255110	BEARING, BALL				1							
6	2	129900-77440	COIL ASSY, FIELD				1							
7	3	129900-77450	BRUSH				2							
8	3	171008-77450	SCREW				4							
9	2	129900-77460	COVER				1							
10	2	129900-77480	HOLDER ASSY, BRUSH				1							
11	3	129900-77450	BRUSH				2							
12	3	129400-77490	SPRING				4							
13	2	171008-77510	CASE, GEAR				1							
14	2	129136-77520	HOUSING				1							
15	2	171008-77540	LEVER SET				1							
18	2	129400-77571	COVER ASSY, DUST				1							
19	2	129900-77640	BOLT, THROUGH				2							
20	2	171008-77650	PINION ASSY				1							
21	3	X2114555500	CLUTCH ASSY				1							
22	4	X2114955020	BEARING, BALL				1							
23	4	X2240410100	BEARING, BALL				1							
24	3	171008-77660	SHAFT				1							
25	3	171008-77670	STOPPER SET				1							
29	2	26106-060322	BOLT, M6X 32 PLATED				2							
30	2	26106-060402	BOLT, M6X 40 PLATED				3							
31	2	171008-77750	COVER				1							
32	1	26116-120252	BOLT, M12X 25 PLATED				2							

Fig.16. GENERATOR(TO 2023.02)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-77330	ADJUSTER, BELT	1							
1-1	1	119940-77310	ADJUSTER, BELT	1						N	
(A=E/#55539)											
2	1	129423-77200	GENERATOR ASSY, 40A	1							
2-1	1	129423-77210	ALTERNATOR, 12V-40A	1						N	
(A=EF5491)											
3	2	X9490561001	NUT	1							
3-1	2	119620-77471	NUT	1						N	
(A=E33725)											
4	2	119620-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-79360	WASHER, THRUST	1							
8	2	119620-77421	FRAME ASSY, GENERATOR	1							
9	3	119620-79200	BEARING, BALL	1							
10	3	119620-79210	RETAINER	1							
11	3	119620-79220	SCREW	4							
12	3	119620-79230	BOLT, STUD	2							
13	2	119620-77440	FRAME ASSY	1							
14	2	129240-79300	COVER	1							
15	2	119620-77461	PULLEY, GENERATOR	1							
16	2	119620-77471	NUT	1							
17	2	129423-77710	REGULATOR ASSY	1							
17-1	2	129423-77720	REGULATOR ASSY	1						N	
(A=EF5491)											
17-2	2	129423-77730	REGULATOR ASSY	1						N	
(A=EJ1197)											
18	2	119620-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	1							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	BUSH, INSULATION	1							
28	2	119620-79350	NUT	2							
29	2	119620-77490	COLLAR	1							
30	1	26106-080452	BOLT, M8X 45 PLATED	1							
31	1	26306-100002	NUT, M10	1							
32	1	129795-01900	BOLT, STUD M10X33	1							
33	1	129972-77341	BOLT, ADJUST L=50	1							
33-1	1	26106-080552	BOLT, M8X 55 PLATED	1						N	
(A=E/#55539)											
34	1	119940-77270	SPACER	1							
35	1	119624-77351	BLOCK ASSY, ADJUSTER	1							W
(A=E/#55539)											
37	2	26106-081004	BOLT, M8X100 PLATED	1							W
(A=E/#55539)											
38	2	26306-080002	NUT, M8	1							W

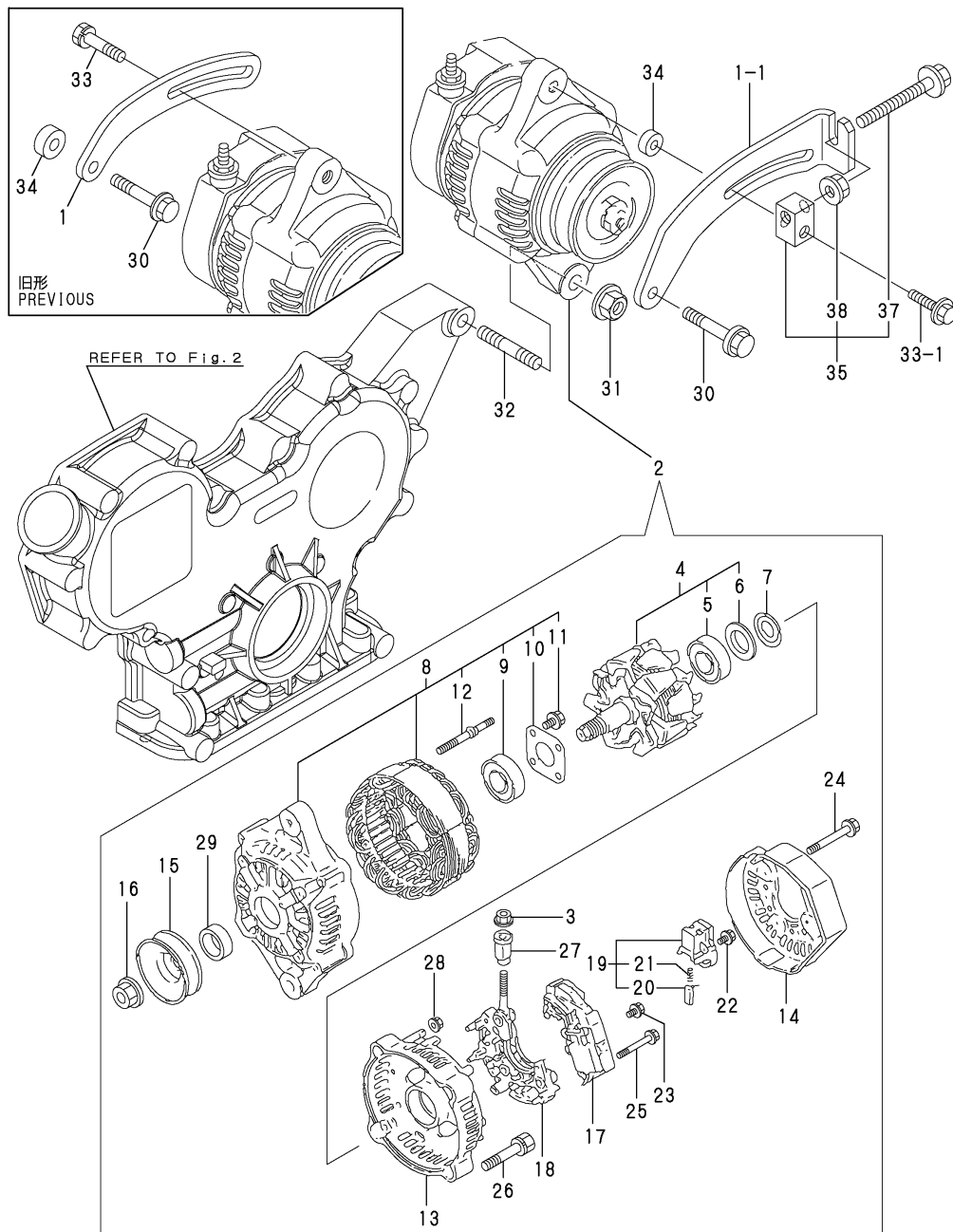
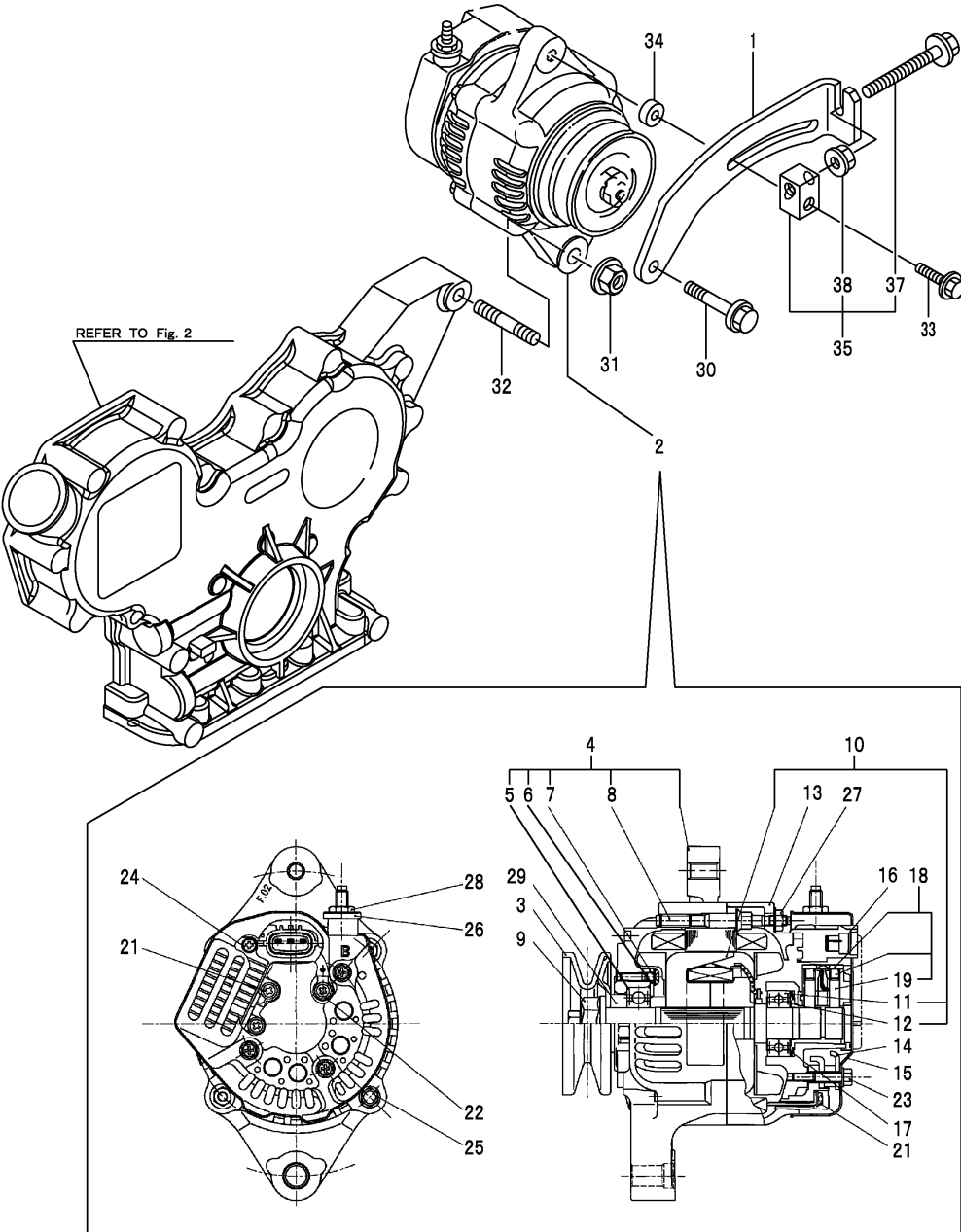
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Fig.18. (16A)GENERATOR(FROM 2023.02)

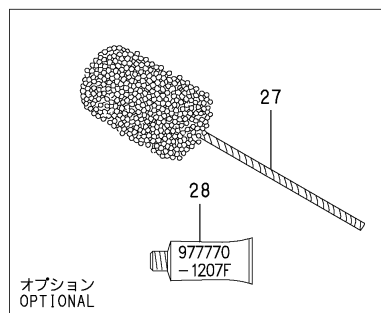
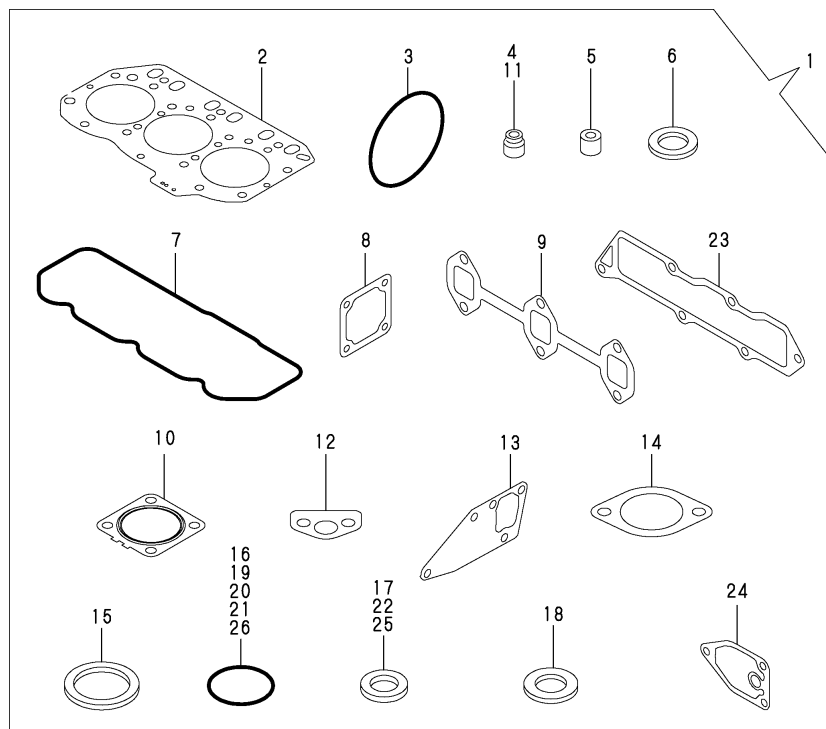
(A)=3TNV82A-NBV2
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119940-77310	ADJUSTER, BELT	1							
2	1	129423-77220	ALTERNATOR, 12V-40A	1							
(A=*2023.02.)											
3	2	119254-77500	PULLEY, GENERATOR	1							
4	2	129423-77500	FRAME ASSY, DRIVE	1							
5	3	119254-77530	BEARING, BALL	1							
6	3	119254-77540	PLATE, RETAINER	1							
7	3	119254-77550	SCREW	4							
8	3	119254-77560	STUD	2							
9	2	119254-77510	NUT	1							
10	2	129423-77510	ROTOR ASSY	1							
11	3	119254-77580	BEARING, BALL	1							
12	3	119254-77590	COVER, BEARING	1							
13	2	129423-77520	FRAME, END RR	1							
14	2	129423-77530	HOLDER ASSY, RECTIFI	1							
15	2	129423-77560	COVER, END RR	1							
16	2	119626-77570	REGULATOR ASSY	1							
17	2	129423-77570	WASHER	1							
18	2	119254-77620	HOLDER ASSY, BRUSH	1							
19	3	129423-77540	BRUSH ASSY, SUB	2							
21	2	119254-77640	SCREW	6							
22	2	119254-77650	SCREW	1							
23	2	119254-77660	BOLT	3							
24	2	119254-77670	SCREW, W/WASHER	2							
25	2	119254-77680	BOLT	2							
26	2	119254-77700	BUSH, INSULATION	1							
27	2	119254-77710	NUT	2							
28	2	119254-77720	NUT	1							
29	2	119254-77730	COLLAR	1							
30	1	26106-080452	BOLT, M8X 45 PLATED	1							
31	1	26306-100002	NUT, M10	1							
32	1	129795-01900	BOLT, STUD M10X33	1							
33	1	26106-080552	BOLT, M8X 55 PLATED	1							
34	1	119940-77270	SPACER	1							
35	1	119624-77351	BLOCK ASSY, ADJUSTER	1							
37	2	26106-081004	BOLT, M8X100 PLATED	1							
38	2	26306-080002	NUT, M8	1							

Fig.17. GASKET SET & TOOLS



(A)=3TNV82A-NBV2
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719823-92940	GASKET SET	1							1
2	2	119812-01330	GASKET, HEAD	1							
3	2	121850-51960	O-RING	1							
4	2	124950-11340	SEAL, VALVE STEM	3							
4-1	2	119803-11340	SEAL, VALVE STEM	3							N
(A=E/#37496)											
5	2	119802-11870	PROTECTOR, NOZZLE	3							
6	2	119625-11880	SEAT, NOZZLE	3							
7	2	119802-11310	GASKET, BONNET	1							
8	2	129150-77511	GASKET	1							
9	2	119810-13110	GASKET	1							
10	2	129004-13200	GASKET, SILENCER	1							
11	2	124160-11340	SEAL, VALVE STEM	3							
12	2	129150-35042	GASKET	1							
13	2	129486-42050	GASKET, WATER PUMP	1							
14	2	129795-49551	GASKET	1							
15	2	129150-49811	GASKET, THERMOSTAT	1							
16	2	24311-240100	O-RING, 1AP10A	1							
17	2	22190-080002	WASHER, SEAL 6	2							
18	2	124465-44950	GASKET, 16	2							
19	2	24311-000120	O-RING, 1AP12.0	3							
20	2	24311-000320	O-RING, 1AP32.0	2							
21	2	24341-000240	O-RING, 1AS24.0	1							
22	2	22190-100002	WASHER, SEAL 10	2							
23	2	119813-12110	GASKET, MANIFOLD	1							
24	2	129150-35111	GASKET	1							
25	2	22190-220002	WASHER, SEAL 22	1							
26	2	119609-32040	O-RING, P16	4							
27	1	129400-92420	HONE	1							1
28	1	977770-1207F	GASKET.LIQUID	1							

Remarks
(1)OPTIONAL PART.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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114250-53130	13	11
114250-53140	13	12
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114250-53400	13	14
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119254-77510	18	9
119254-77530	18	5
119254-77540	18	6
119254-77550	18	7
119254-77560	18	8
119254-77580	18	11
119254-77590	18	12
119254-77620	18	18
119254-77640	18	21
119254-77650	18	22
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Parts No.	Fig. No.	Ref. No.
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