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PREFACE

1. This Parts Catalog is the 1st edition of Yanmar crawler backhoe B7-5A for Europe.

Pub. No. : 000Y00S4320
Published : January, 2004

2. Model name

	Column	Model name	M/#	Manufactured
I (Vehicle)	(A)	B7-5A (EP)	57501 ~	2004/1 ~
II (Engine)	(A)	4TNV98-XBV	01000 ~	2003/12 ~

3. 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.

How to read this Parts Catalog.

1. Parts mentioned in Parts Catalog may not necessarily be standard equipping parts
2. Parts change may be made without prior notice.
3. Form of this Parts Catalog.

Y00F2161 29. FUEL INJECTION PUMP (W/BOOST)													
①	②	REF.	LEV.	PARTS No.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1				729595-51390	FUEL INJECTION PUMP		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 6X16	9	9	9	9	9			
1 3-1	2			26022-060162	SCREW M 6X16	4	4	4	4	4		K	
				(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2			129470-51040	CAMSHIFT	9	9	9	9	9			
5	2			122710-51050	BEARING ROLLER	9	9	9	9	9			
6	2			129470-51060	RETAINER	9	9	9	9	9			

Remarks

(1) BOOST COMPENSATOR TYPE.
OPTIONAL PART TO E#00155
(4JH-DT, 4JH-DTZ)

① Ref. No.

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

(Ex.) illustration No. List head No.

1 1 (Before change) → 1-1 (After change)

When interchangeable symbol N, and K, illustrations for the new parts are sometimes omitted.

② Lev. (Level)

Indication and Meaning of Level

Level Hereunder is given the relation among the number of number (1,2,3) the level and the nominal parent-child relationship.

1 ---- Parent parts (Assembly parts)

2 ---- Child parts included in "1" (Semi-Assembly parts, component parts of Assembly parts.)

3 ---- Child parts included in "2", Grand-child parts in terms of "1".

(Component parts of Semi-Assembly parts.)

Note) A parts of non-sale parts are illustrated but not listed.

③ Change Mark

Change Mark "I" is given to the part for which a design change was made at this time.

The design change was not shown in the last published Parts Catalog.

④ Interchangeability Mark

In the case where a part change took place, one of the following interchangeability marks is indicated for that part

Symbol	Interchangeability	Contents note
N	Old ←  New	New Part is interchangeable for Old Part but not interchangeable conversely.
Q	Old ←  New	New Part is not interchangeable for Old Part but interchangeable conversely.
R	Old ←  New	New Part is interchangeable for Old Part and vice versa.
S	Old ←  New	New Part is not interchangeable for Old Part and vice versa.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable single part but interchangeable by set of the related parts.
K		Changed only in quantity used.

⑤ Effective Machine No.

When a part is changed, Effective Machine No. of a Model for which the part is applicable is indication

In each column of (A)-(F).

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No, Compressor No,	M	Machine No,
D	Drive No,	T	Tractor No,
E	Engine No,	Note 1)※	Date

Note 1) Date may follow the symbol in some cases. (Ex.) ※1996.01

Note 2) As far as engine models shown by "XXX" are concerned, the modification of the parts could not be Predicted or the engine models themselves could not be identified.

Note 3) (A=E#00185) means that the design change on the part has been effective for the model at the, column (A) (in the case, for 4JH-DT) on and from E#(Engine Serial Number) 00185

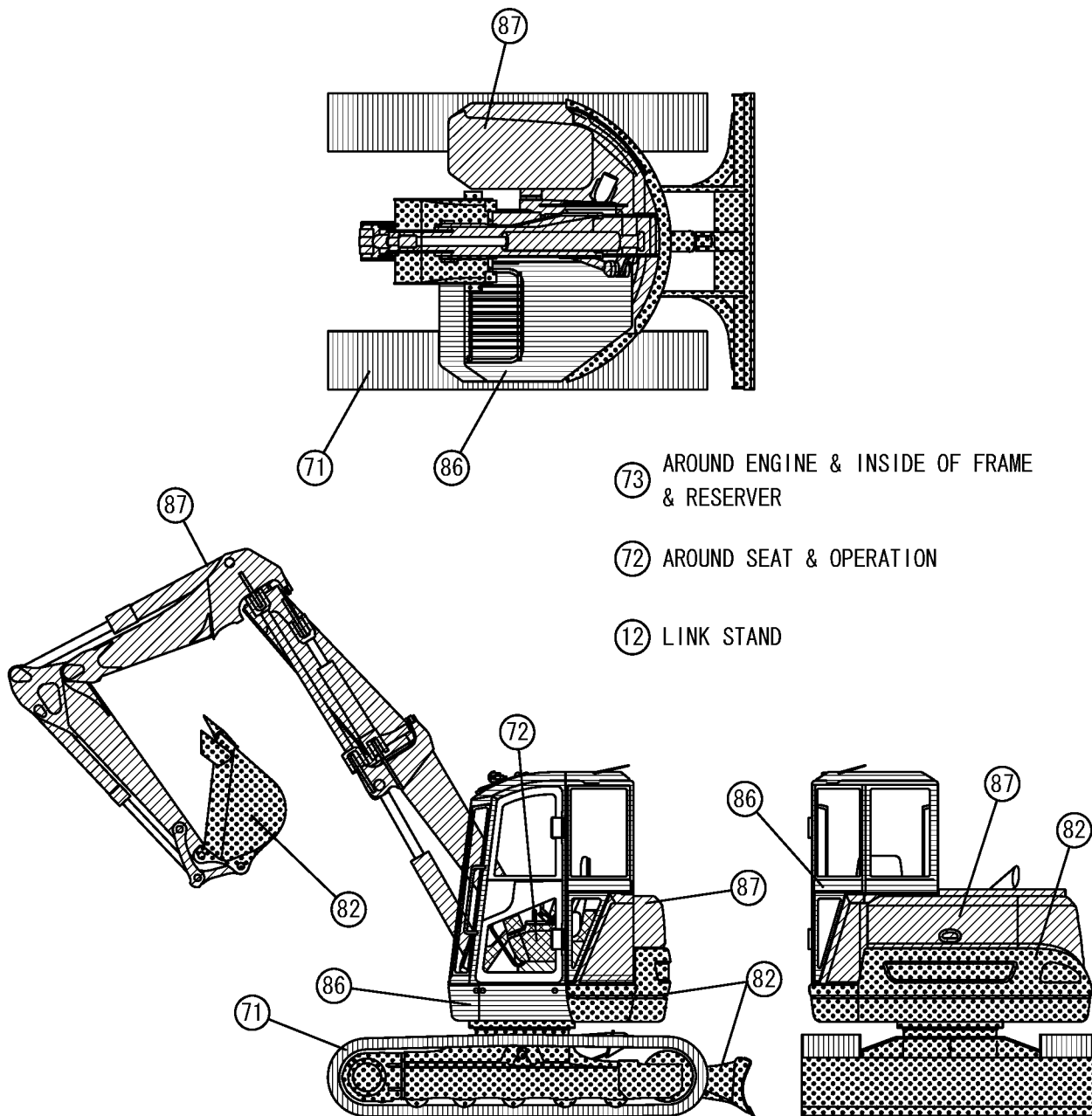
⑥ Remarks Mark

Figures or alphabets (Symbols) are entered in the remark column.

The comments (remarks) on the pertinent parts are indicated in the lower part of the list by the same symbols as those stated above.

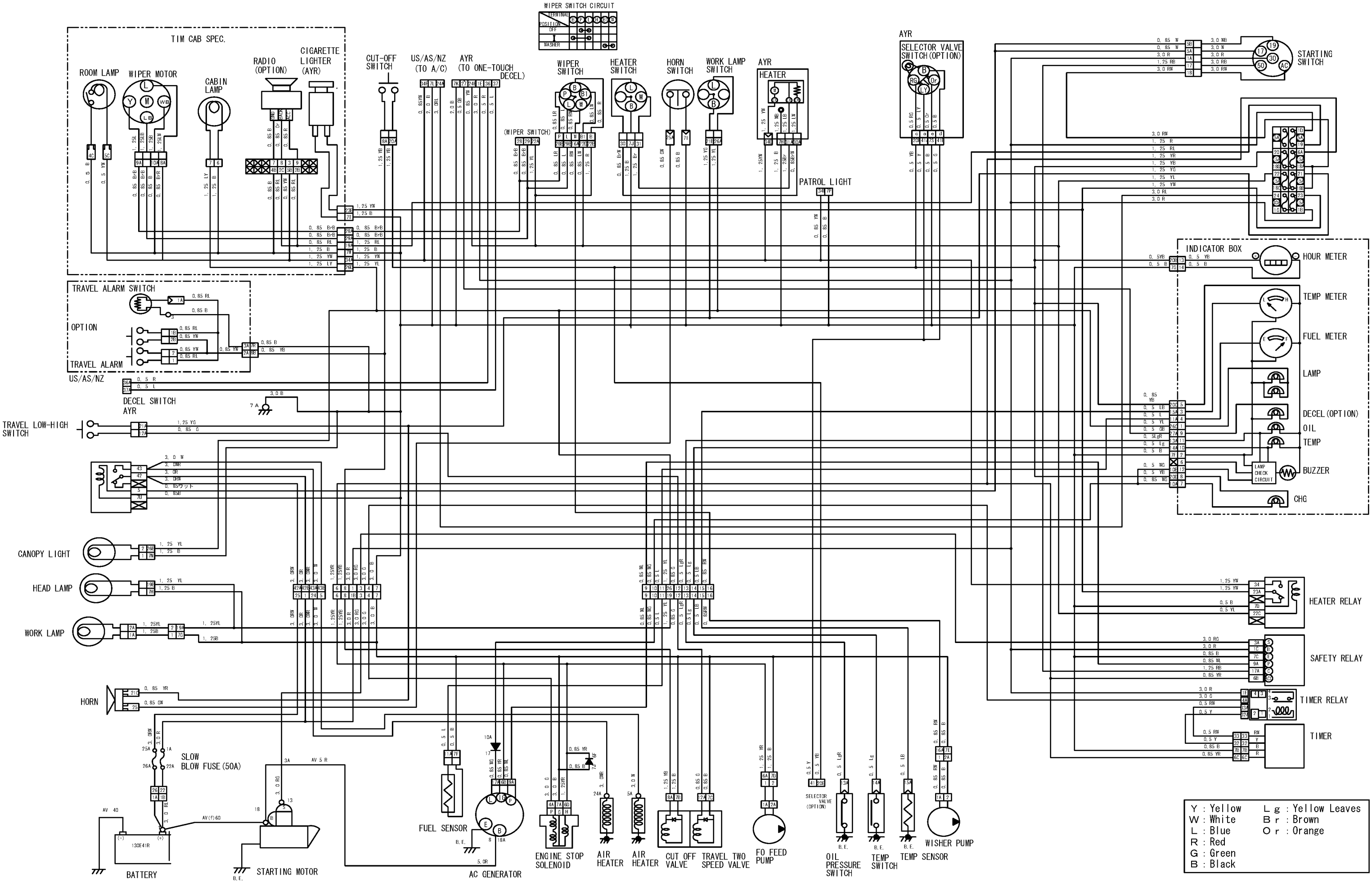
VEHICLE PAINTED COLOR

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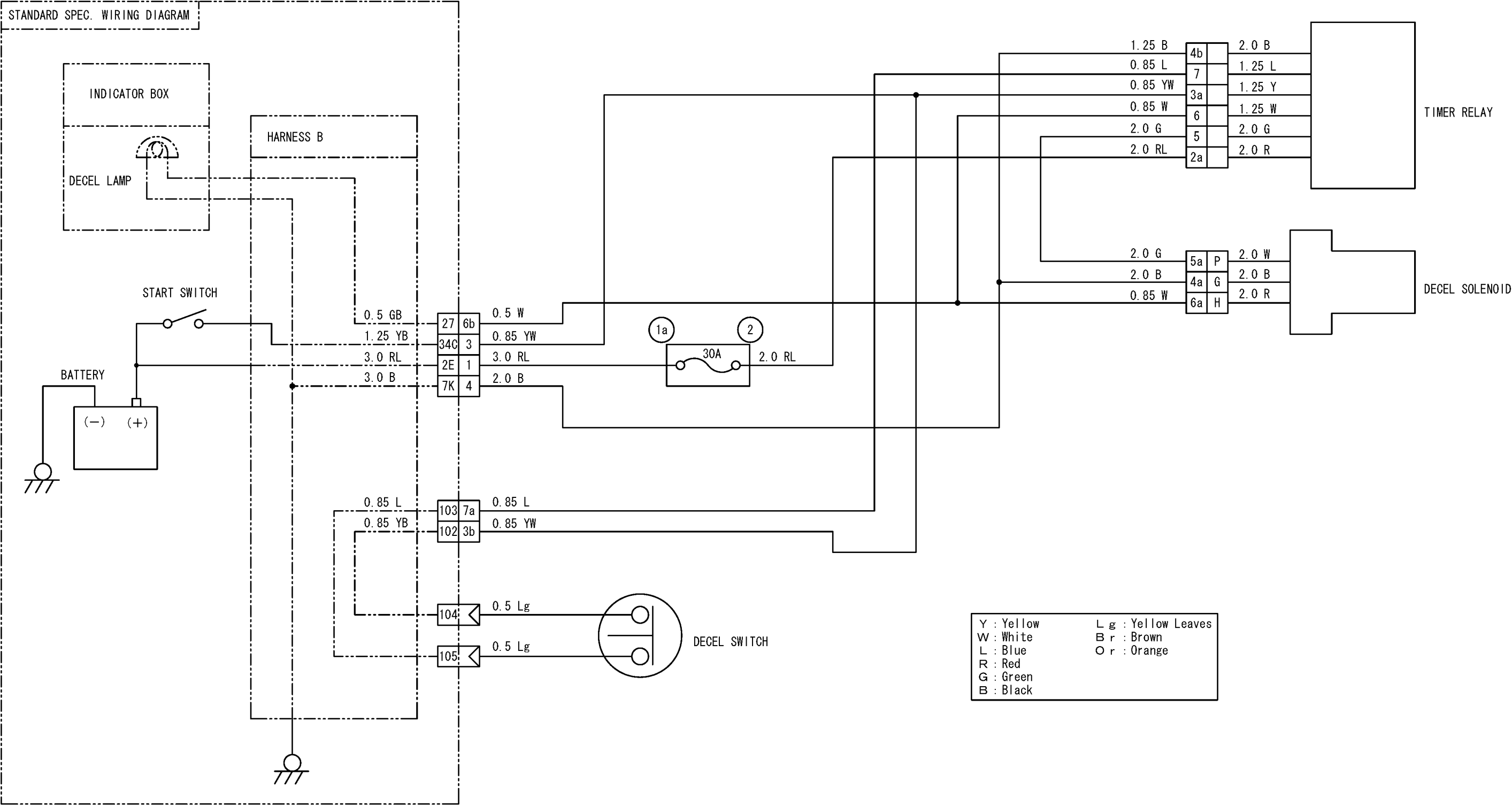
Color Code	Description	Painted Color	Munsell No.	Paint Part No.		
				16L Can	4L Can	SPRAY
87		YANMAR New Permanent Yellow	5. 15Y8. 45/10. 81	981101-09519	977620-40870	977620-30871
86		YANMAR New Grayish Green	2. 62B64. 76/2. 87	981101-09616	977620-40860	977620-30861
82		YANMAR Deep Green	6. 39B62. 13/1. 73	981101-09517	977620-40820	977620-30N31
73		YANMAR Warm Gray	5. 52Y4. 9/1. 09	-----	-----	TOR-90450003
72		YANMAR Dark Olive Gray	7. 21Y2. 92/0. 79	-----	977620-40720	TOR-90460003
71		YANMAR Charcoal Gray	N-1. 80	981101-09516	977620-40710	977620-30371
12		YANMAR Black	4. 90PB0. 08/0. 41	-----	TOR-91220001	TOR-90220003

WIRING DIAGRAM



Y : Yellow Lg : Yellow Leaves
W : White Br : Brown
L : Blue Or : Orange
R : Red
G : Green
B : Black

WIRING DIAGRAM



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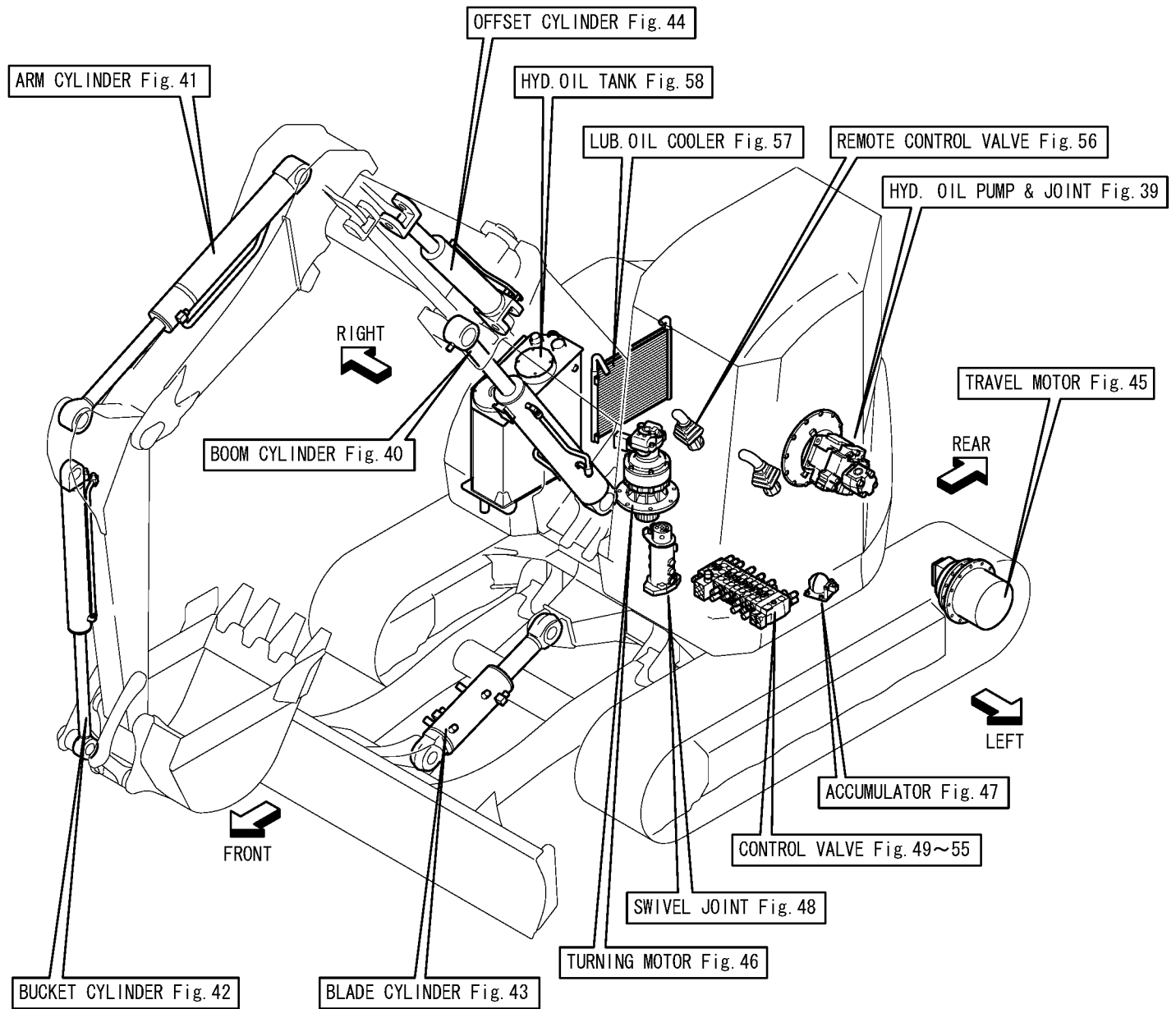
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Fig. 1 LABEL

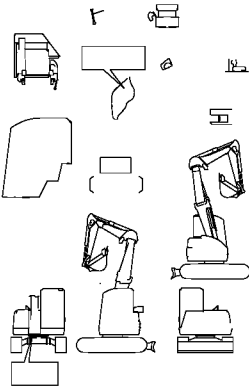


Fig. 2 SAFETY LABEL

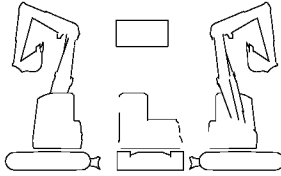


Fig. 3 MUFFLER

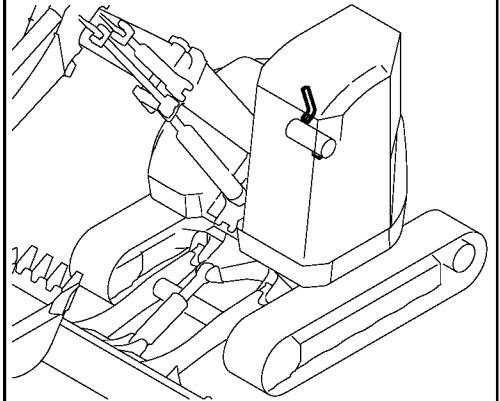


Fig. 4 AIR CLEANER

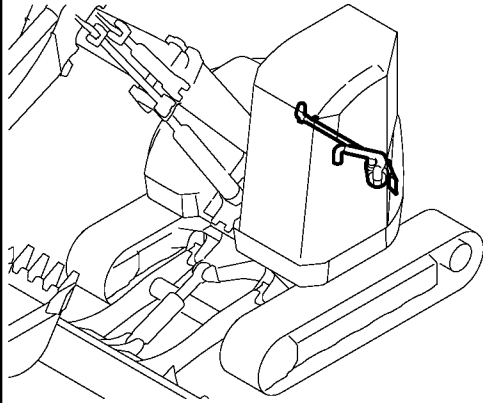


Fig. 5 ACCELERATOR LEVER

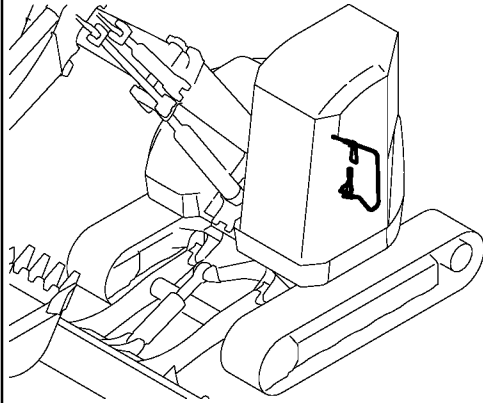


Fig. 6 ENGINE MOUNT

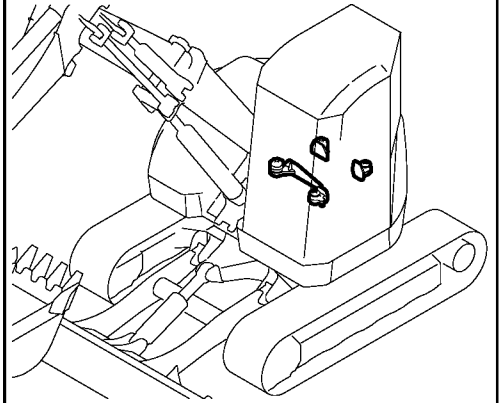


Fig. 7 RADIATOR & SUB-TANK

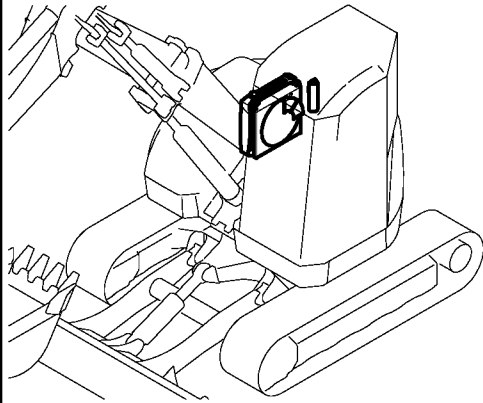


Fig. 8 RADIATOR MOUNT

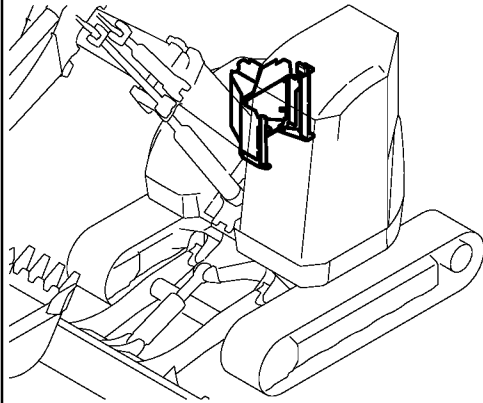


Fig. 9 FUEL TANK

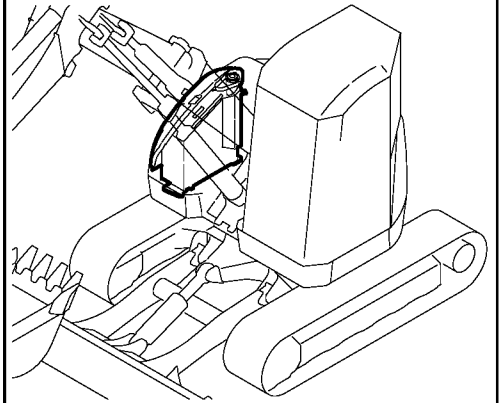


Fig. 10 FUEL LINE

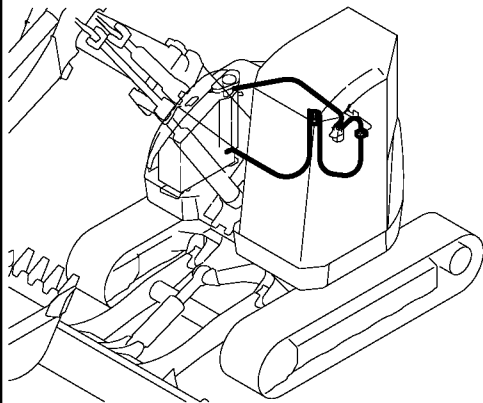


Fig. 11 BATTERY

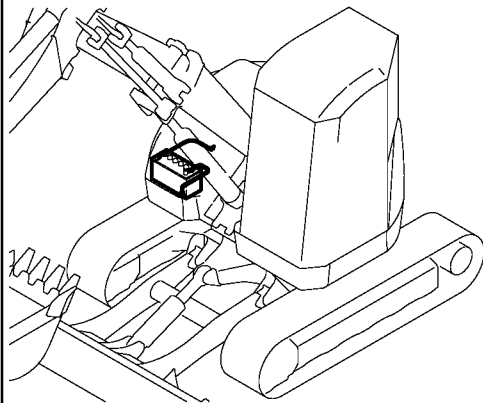
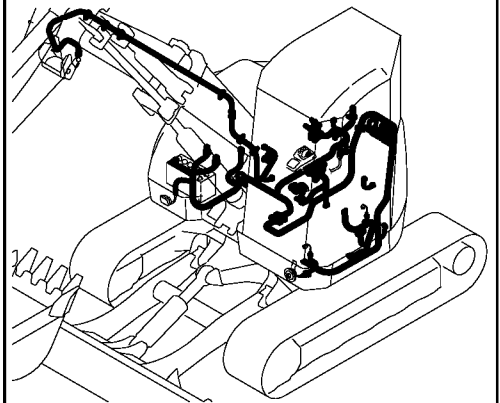


Fig. 12 ELECTRIC PART (WIRING)



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Fig. 13 ELECTRIC PART (EQUIPMENT)

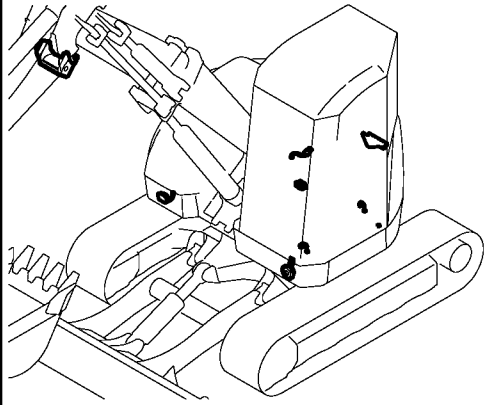


Fig. 14 INDICATOR BOX

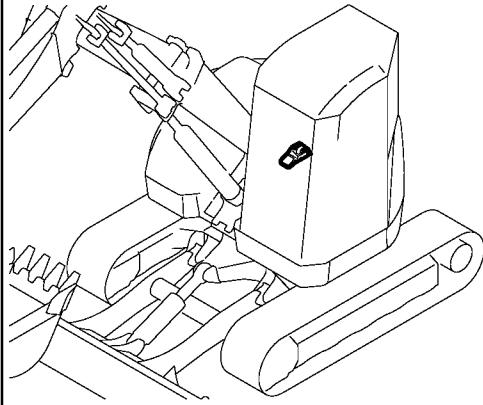


Fig. 15 WIND WASHER

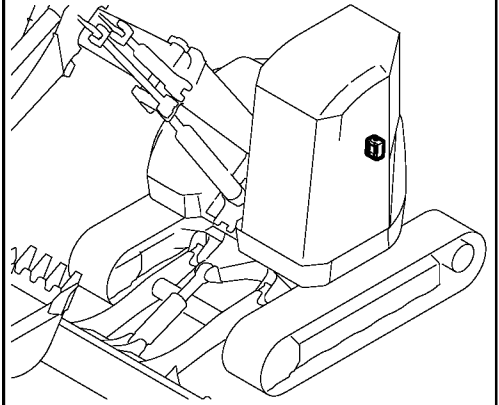


Fig. 16 HEATER

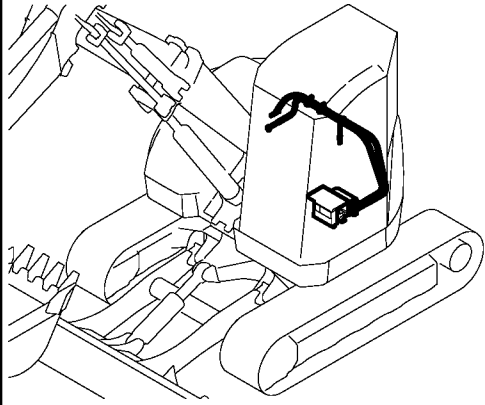


Fig. 17 DEFROSTER

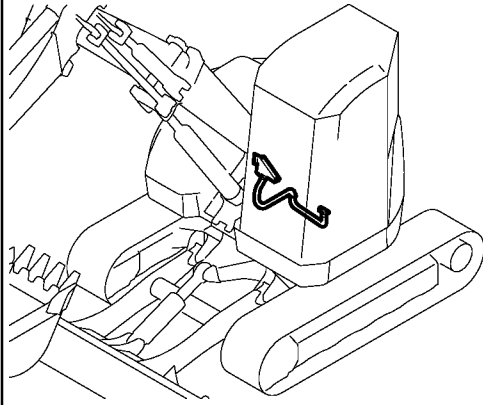


Fig. 18 SPROCKET & ROLLER

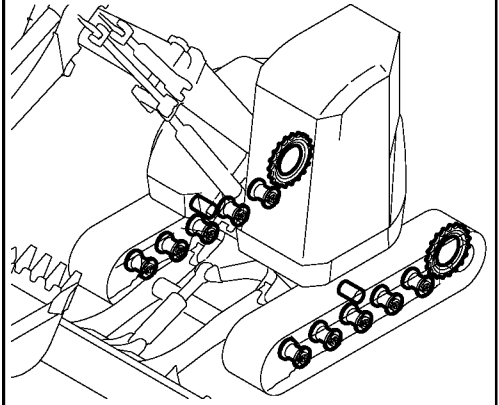


Fig. 19 IDLER & CRAWLER ADJUST

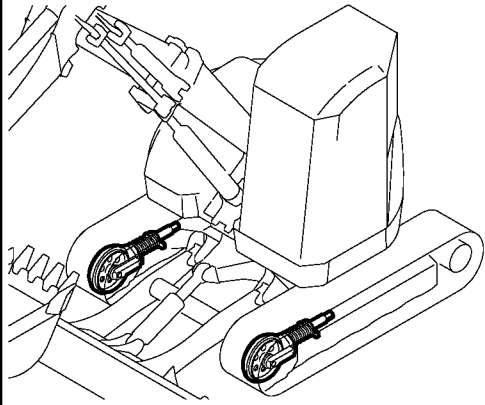


Fig. 20 CRAWLER

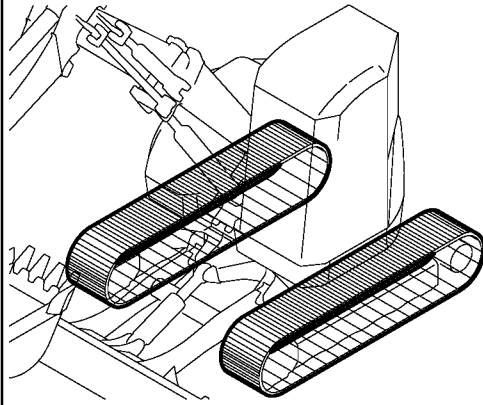


Fig. 21 CONTROL EQUIPMENT (LOCK LEVER & STAND)

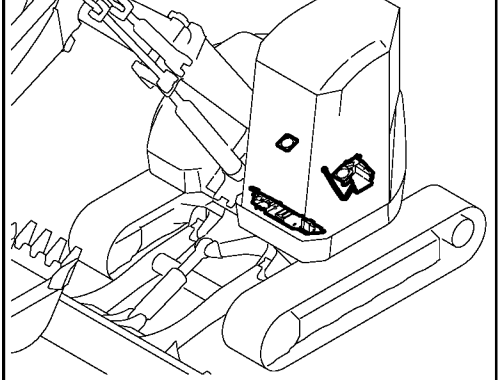


Fig. 22 CONTROL EQUIPMENT (TRAVEL)

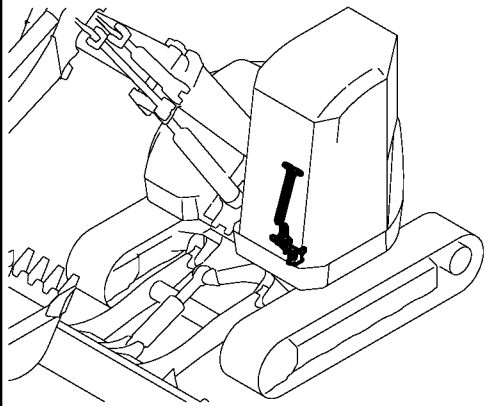


Fig. 23 CONTROL EQUIPMENT (BLADE)

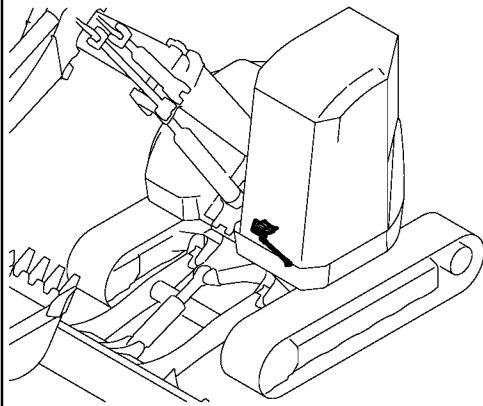
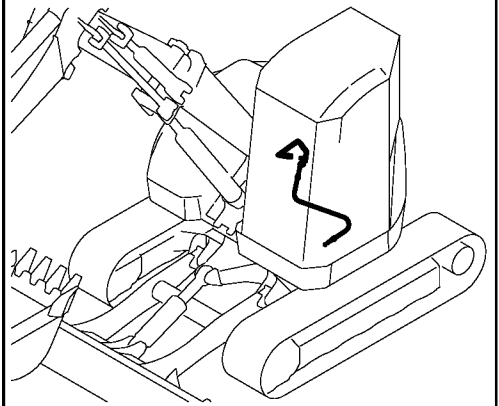


Fig. 24 CONTROL EQUIPMENT (OFFSET)



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Fig. 25 CONTROL EQUIPMENT (LOW-HIGH PEDAL)

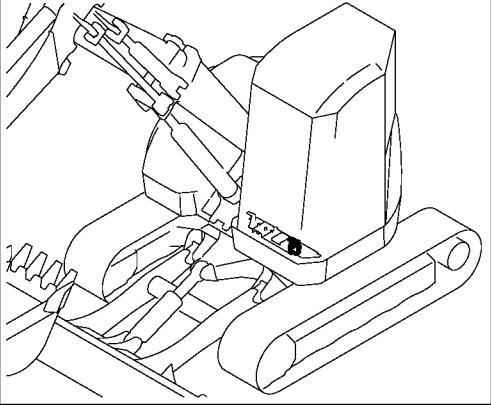


Fig. 26 CONTROL EQUIPMENT (P. T. O. PEDAL)

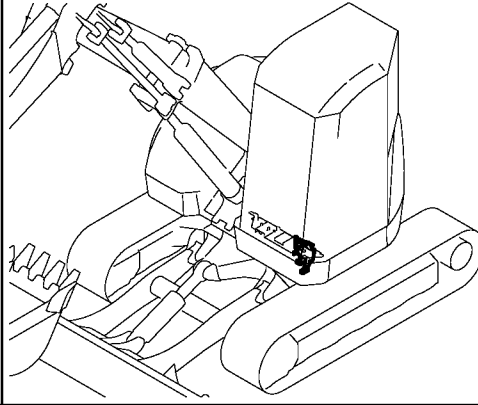


Fig. 27 CONTROL VALVE PLATE

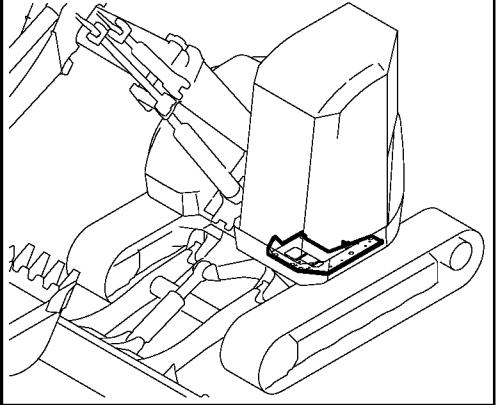


Fig. 28 FRAME & TURNING BEARING

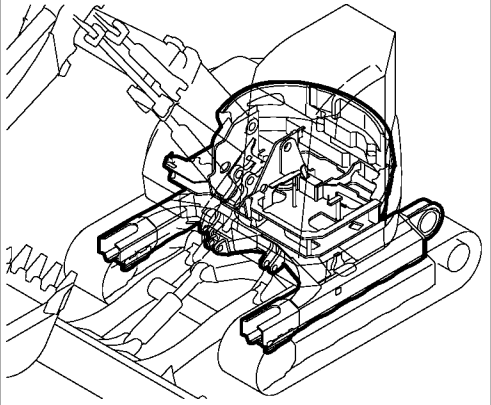


Fig. 29 COVER (FRAME)

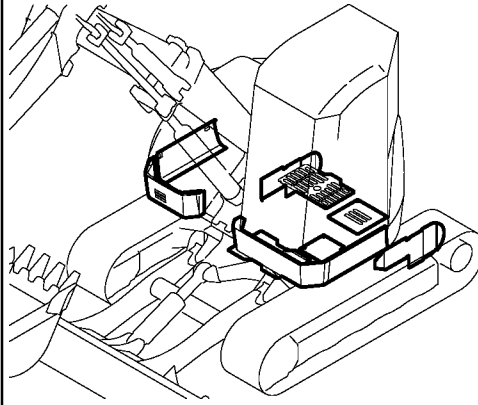


Fig. 30 COVER (AROUND THE CONTROL)

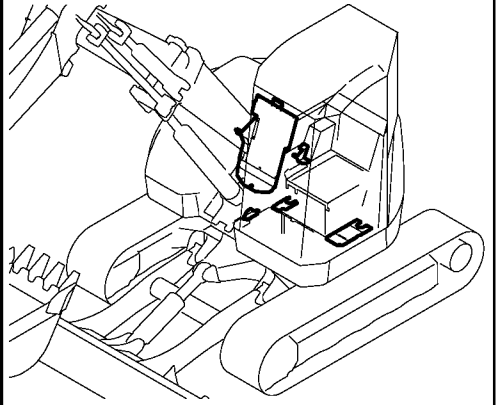


Fig. 31 COVER (AROUND THE SEAT)

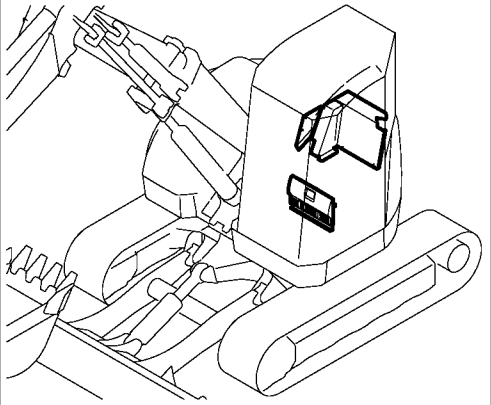


Fig. 32 COVER (BOOM)

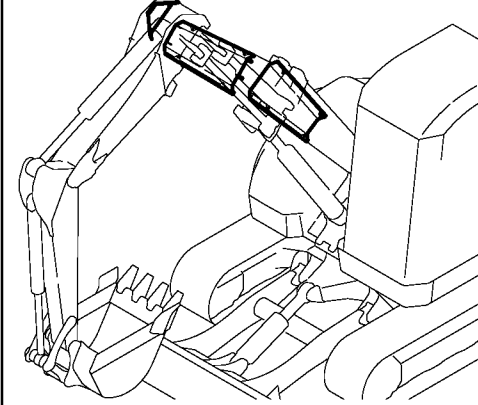


Fig. 33 STEP & INSTRUMENT PANEL

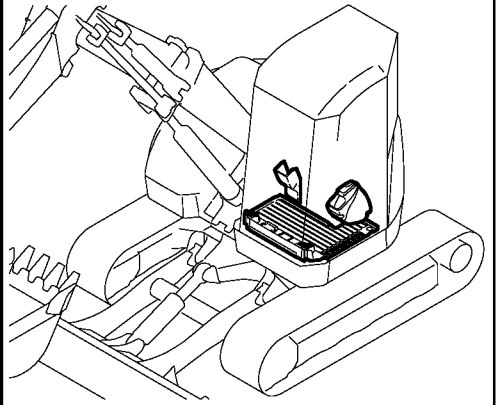


Fig. 34 SEAT MOUNT

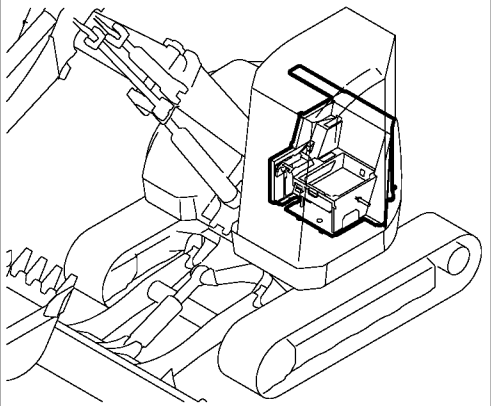


Fig. 35 BONNET (BODY)

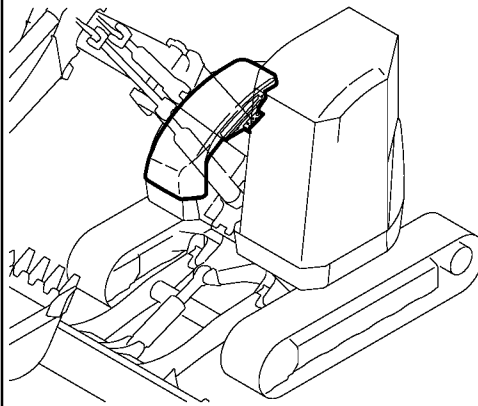


Fig. 36 BONNET (UPPER COVER)

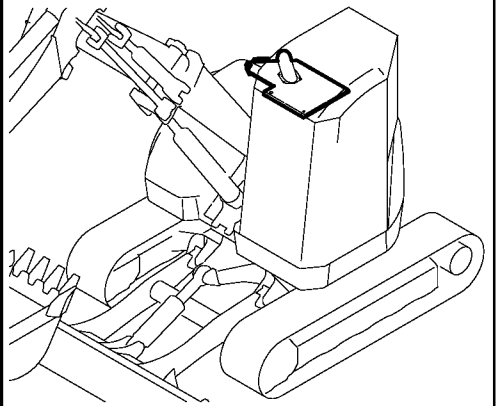


Fig. **37** BONNET(SIDE & REAR COVER)

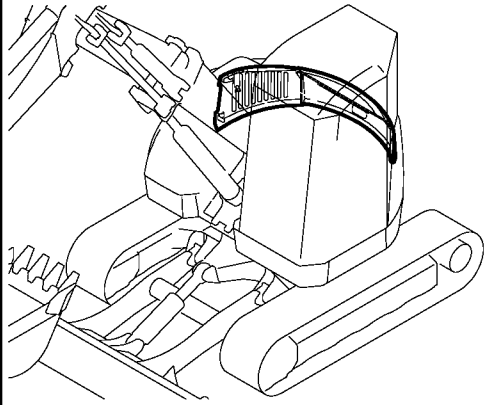


Fig. **38** CABIN MOUNT

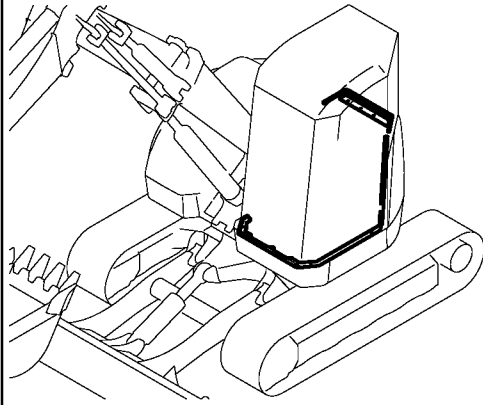


Fig. **39** HYD. OIL PUMP & JOINT

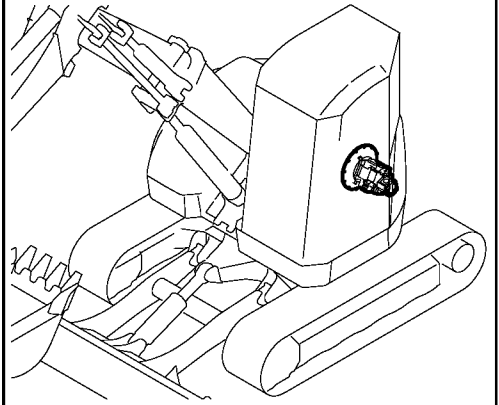


Fig. **40** BOOM CYLINDER

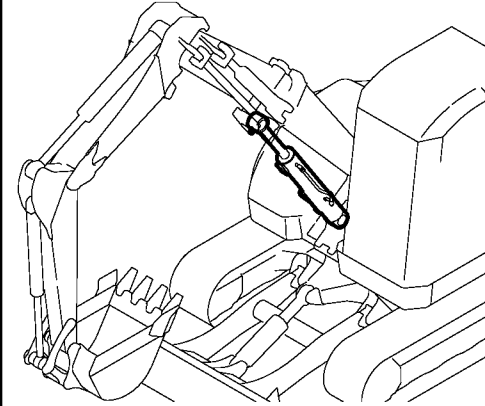


Fig. **41** ARM CYLINDER

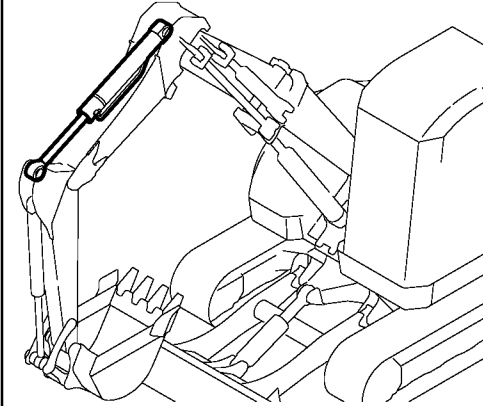


Fig. **42** BUCKET CYLINDER

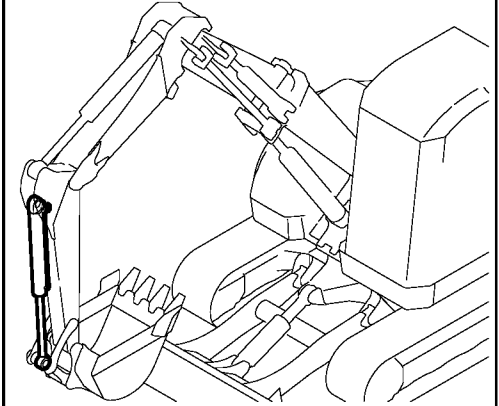


Fig. **43** BLADE CYLINDER

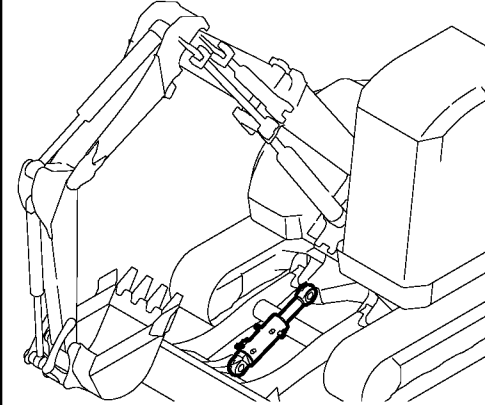


Fig. **44** OFFSET CYLINDER

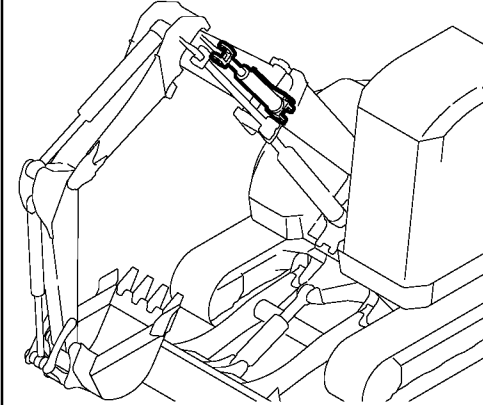


Fig. **45** TRAVEL MOTOR

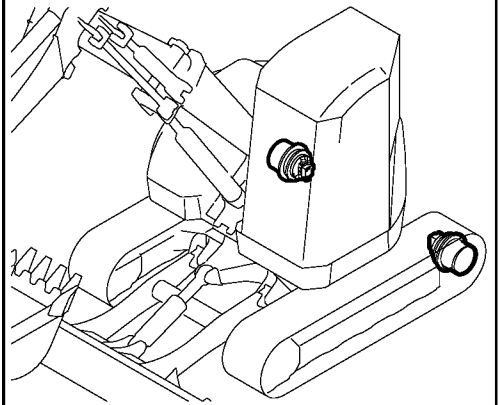


Fig. **46** TURNING MOTOR

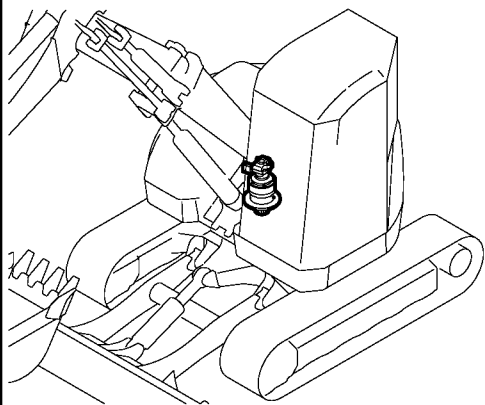


Fig. **47** ACCUMULATOR

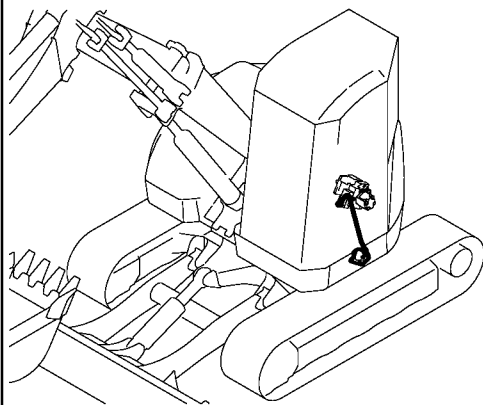
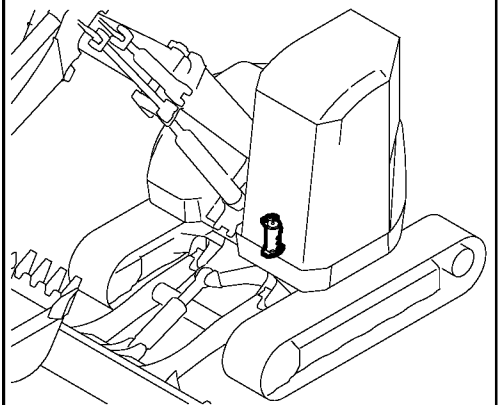


Fig. **48** SWIVEL JOINT



PICTURESQUE INDEX (3) . . . FIGURE

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Fig. **49** CONTROL VALVE (1/7)

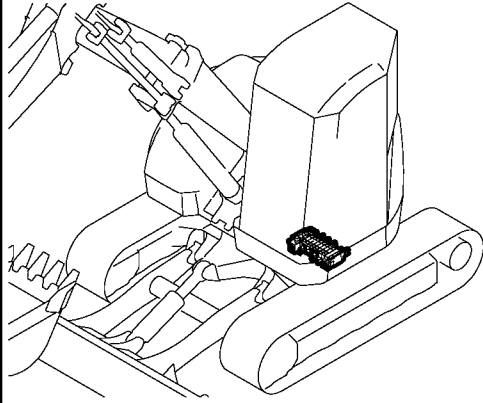


Fig. **50** CONTROL VALVE (2/7)

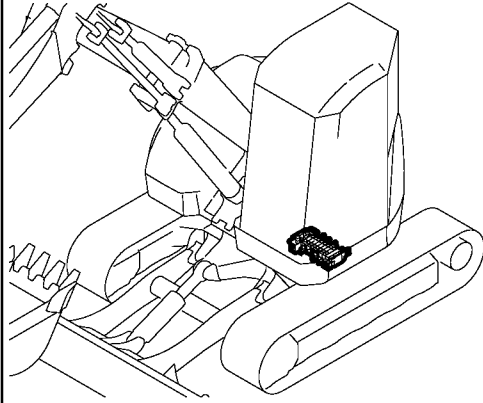


Fig. **51** CONTROL VALVE (3/7)

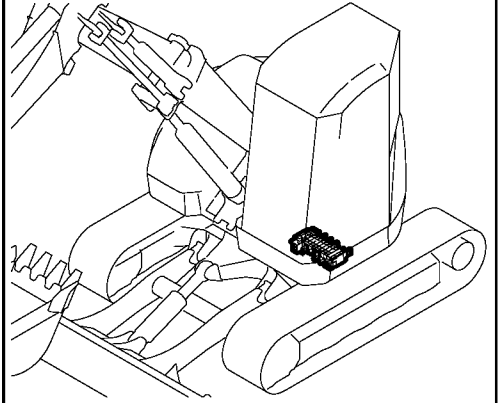


Fig. **52** CONTROL VALVE (4/7)

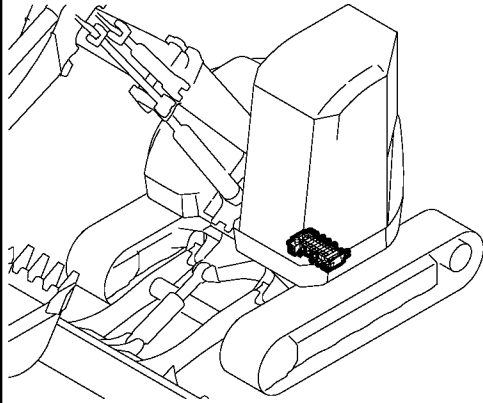


Fig. **53** CONTROL VALVE (5/7)

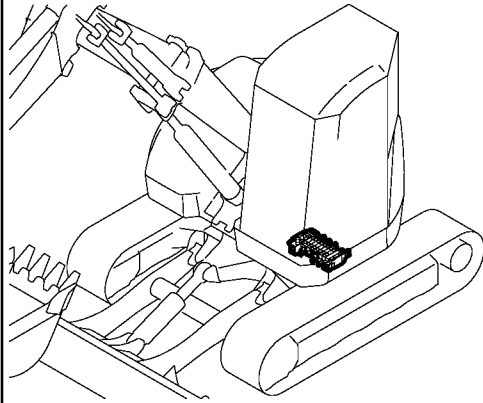


Fig. **54** CONTROL VALVE (6/7)

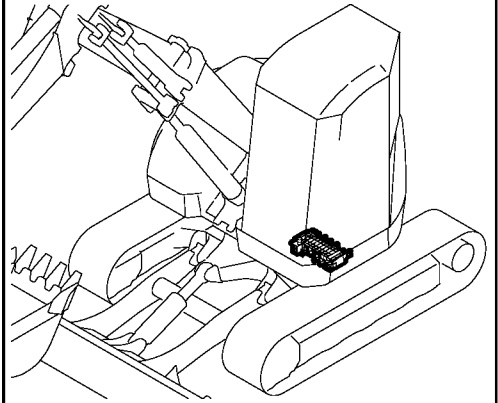


Fig. **55** CONTROL VALVE (7/7)

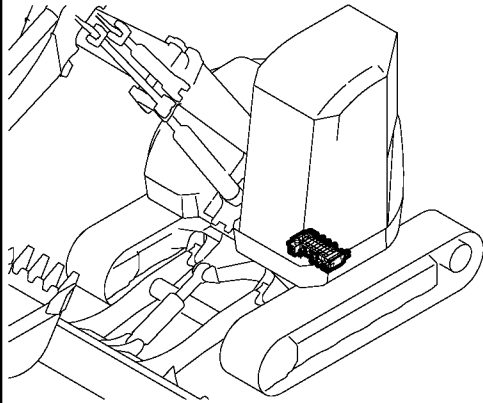


Fig. **56** REMOTE CONTROL VALVE

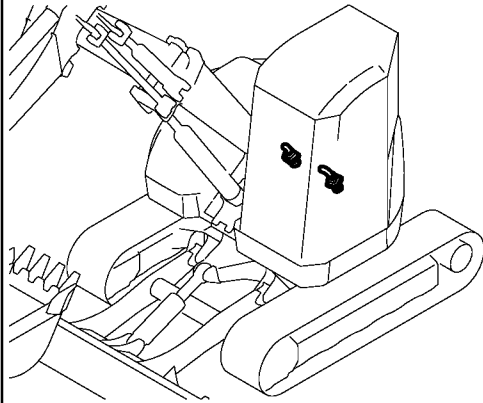


Fig. **57** LUB. OIL COOLER

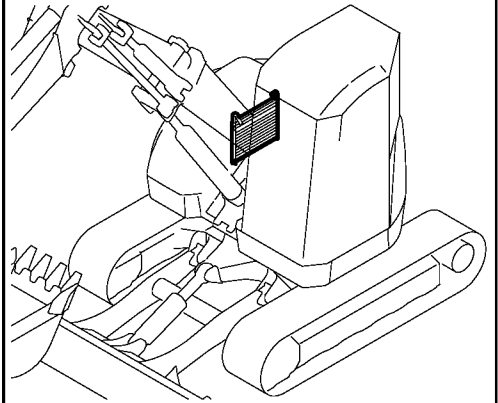


Fig. **58** HYD. OIL TANK

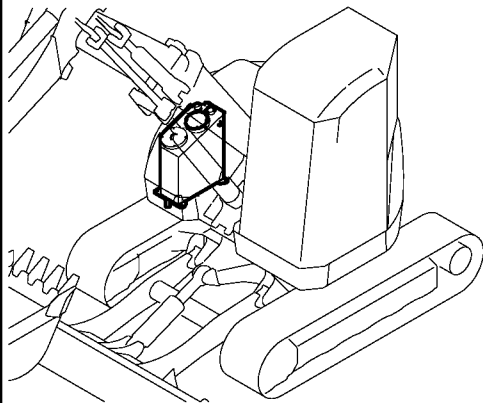


Fig. **59** HYD. OIL PIPING (TANK~PUMP~
CONTROL VALVE)

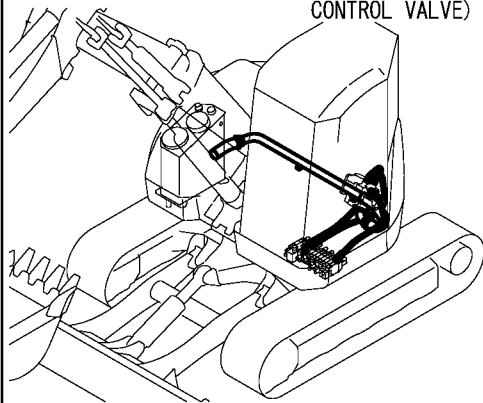
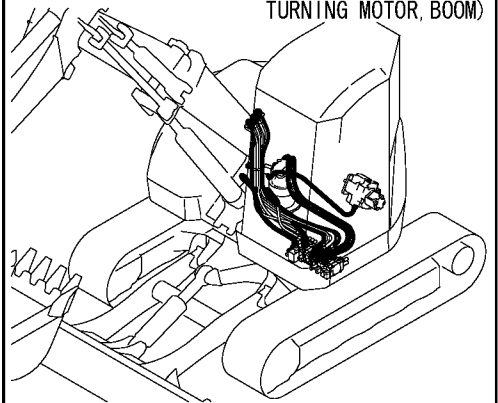


Fig. **60** HYD. OIL PIPING (PUMP, CONTROL V. ~
TURNING MOTOR, BOOM)



PICTURESQUE INDEX (3) . . . FIGURE

6/7

Fig. 61 HYD. OIL PIPING
(PUMP, CONTROL V. ~SWIVEL)

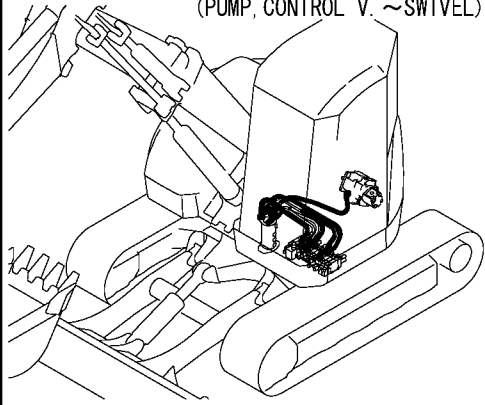


Fig. 62 HYD. OIL PIPING (RETURN 1)

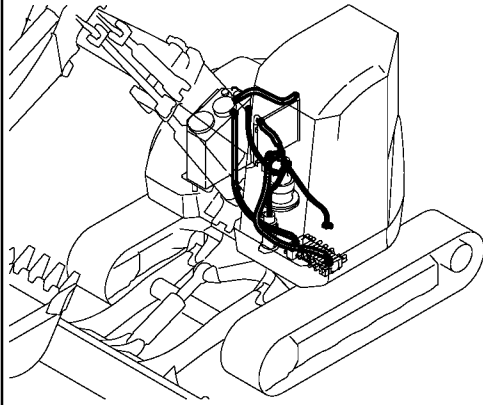


Fig. 63 HYD. OIL PIPING (RETURN 2)

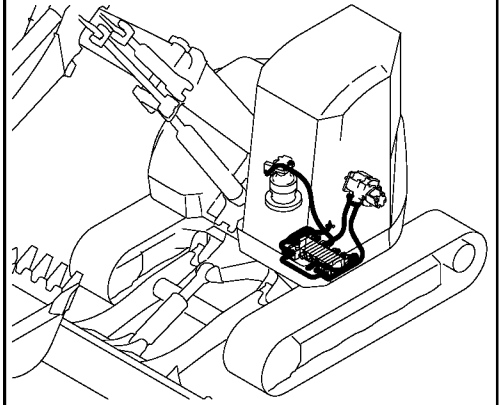


Fig. 64 HYD. OIL PIPING (P. T. O. :FRAME END)

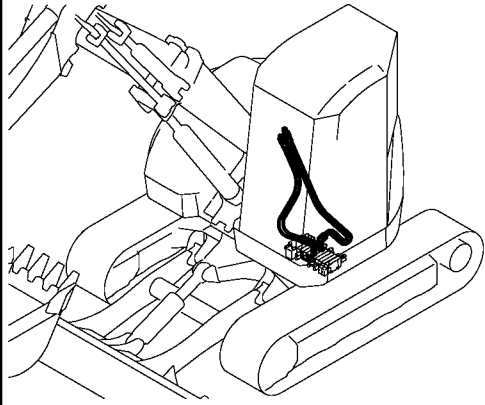


Fig. 65 HYD. OIL PIPING (TRACK FRAME)

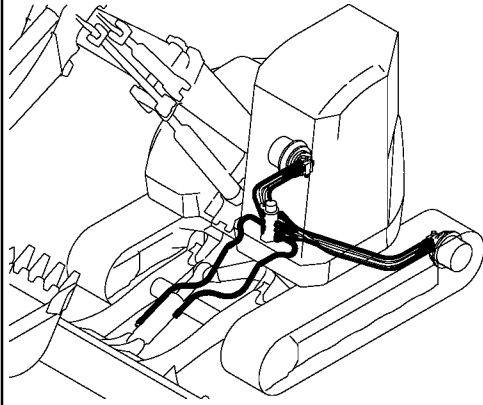


Fig. 66 HYD. OIL PIPING (BOOM)

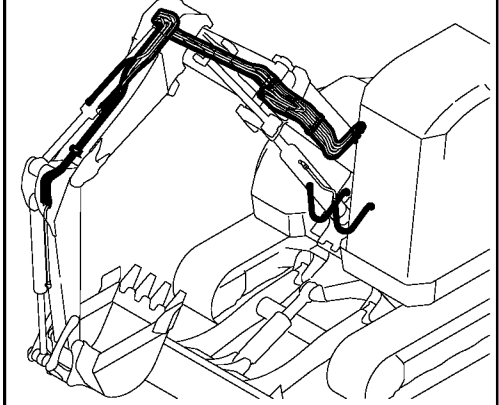


Fig. 67 HYD. OIL PIPING (P. T. O. :BOOM END)

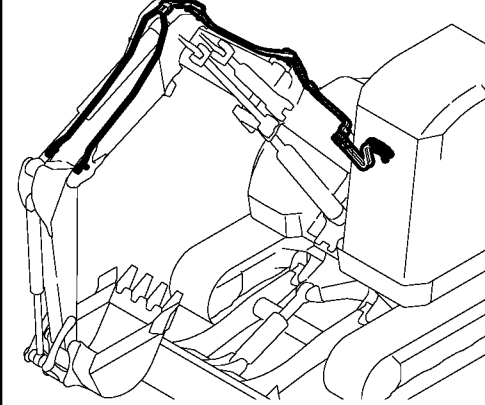


Fig. 68 CONTROL PIPING (PUMP ~
REMOTE CONTROL V. ~RETURN)

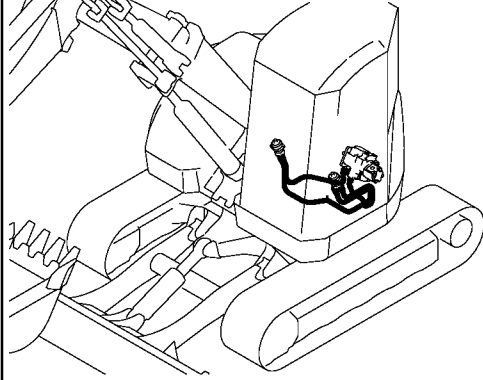


Fig. 69 CONTROL PIPING (REMOTE CONTROL V.
~CONTROL V.)

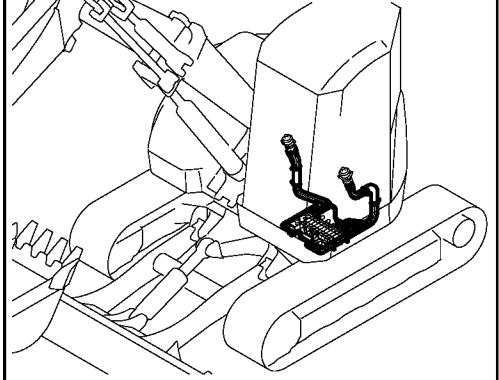


Fig. 70 GREASING

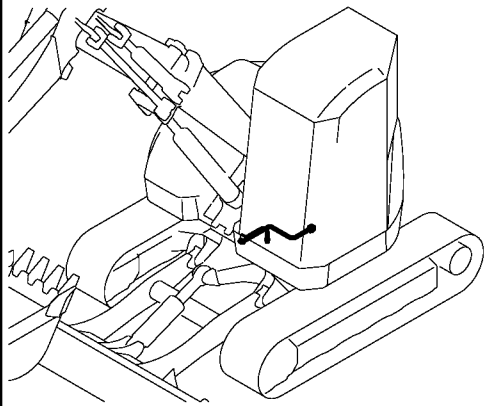


Fig. 71 BOOM-A

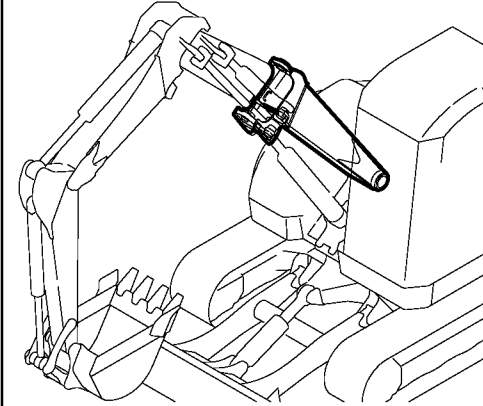
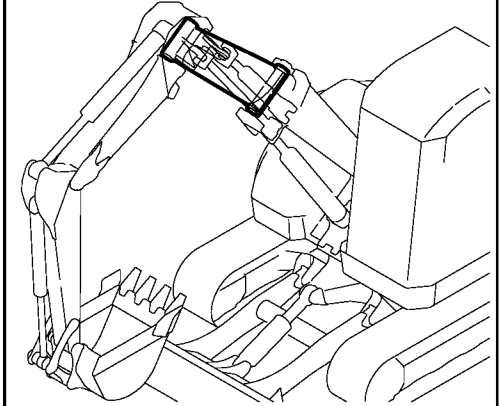


Fig. 72 BOOM-B



PICTURESQUE INDEX (3) . . . FIGURE

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Fig. **73** BOOM-C

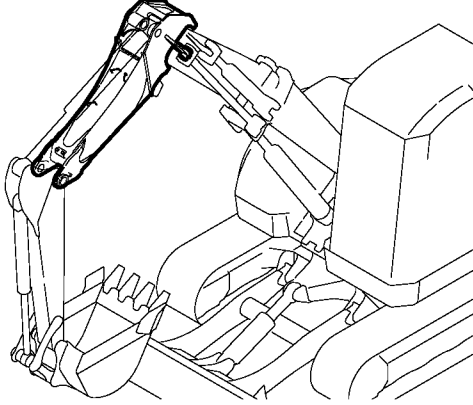


Fig. **74** ARM

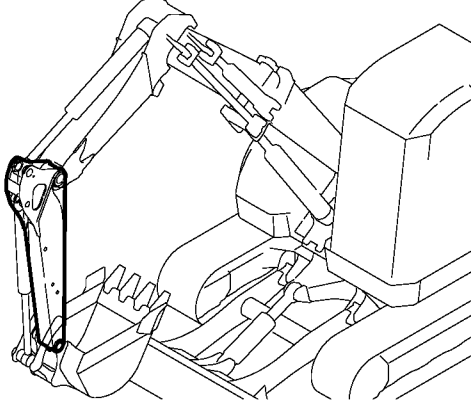


Fig. **75** BUCKET ARM & LINK

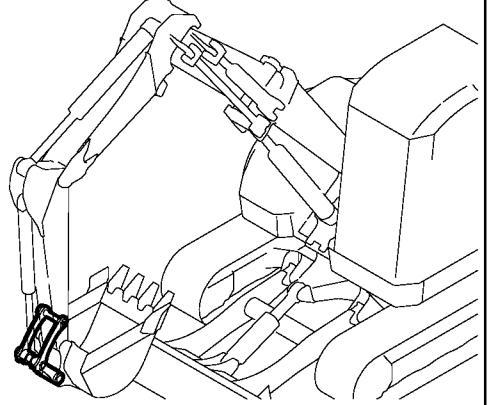


Fig. **76** BUCKET PIN

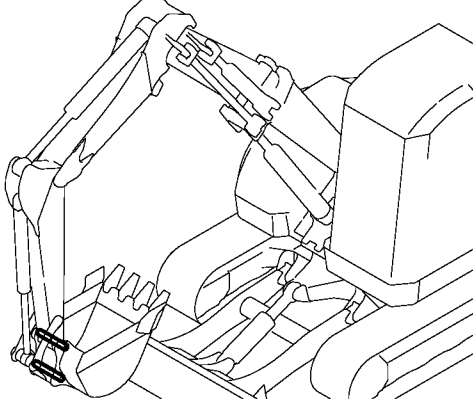
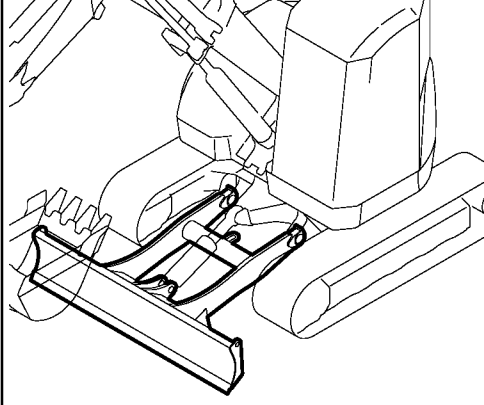
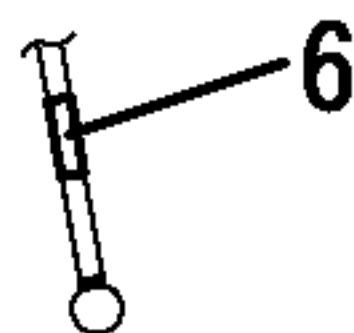


Fig. **77** BLADE

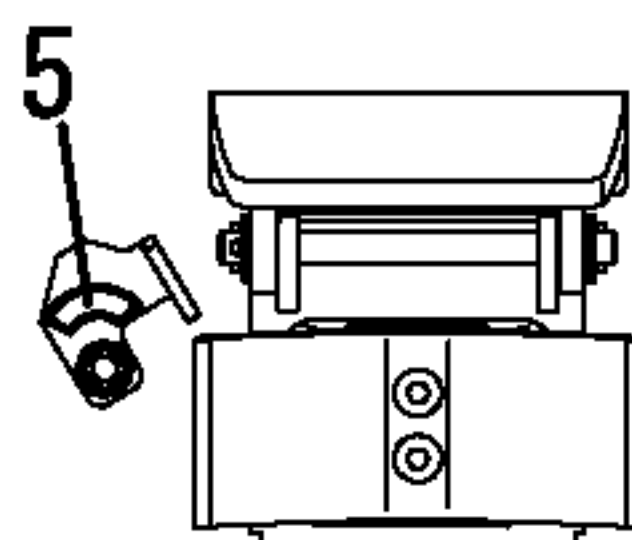


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4,2,,172458-03220,, "LABEL, ACCELERATOR",1,,,,,,,,,,,,,
5,2,,172458-03240,, "LABEL, LOCK",1,,,,,,,,,,,,,
6,2,,172183-03280,, "LABEL, LOCK",1,,,,,,,,,,,,,
7,2,,172438-03300,, LABEL,1,,,,,,,,,,,,,
8,2,,172463-03310,, "LABEL, MODEL L LW.US",1,,,,,,,,,,,,,
9,2,,172141-03360,, "LABEL, START SWITCH",1,,,,,,,,,,,,,
10,2,,172171-03420,, "CAUTION PLATE ASSY",1,,,,,,,,,,,,,
11,2,,172488-03440,, "LABEL,B7 US",2,,,,,,,,,,,,,
12,2,,172151-03451,, "LABEL, BOOM",2,,,,,,,,,,,,,
13,2,,172437-03510,, "LABEL, HOOK",3,,,,,,,,,,,,,
14,2,,172496-03200,, "LABEL, OPERATION",1,,,,,,,,,,,,,
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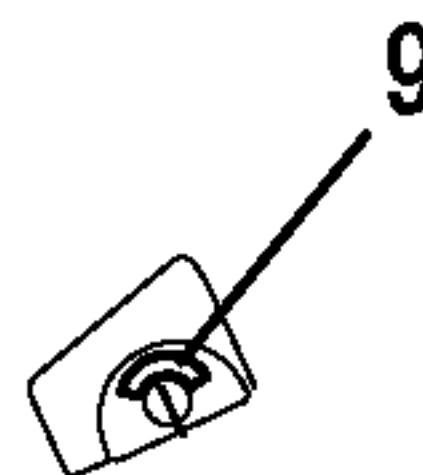
1 inc. 2~15



VIEWED FROM (B)



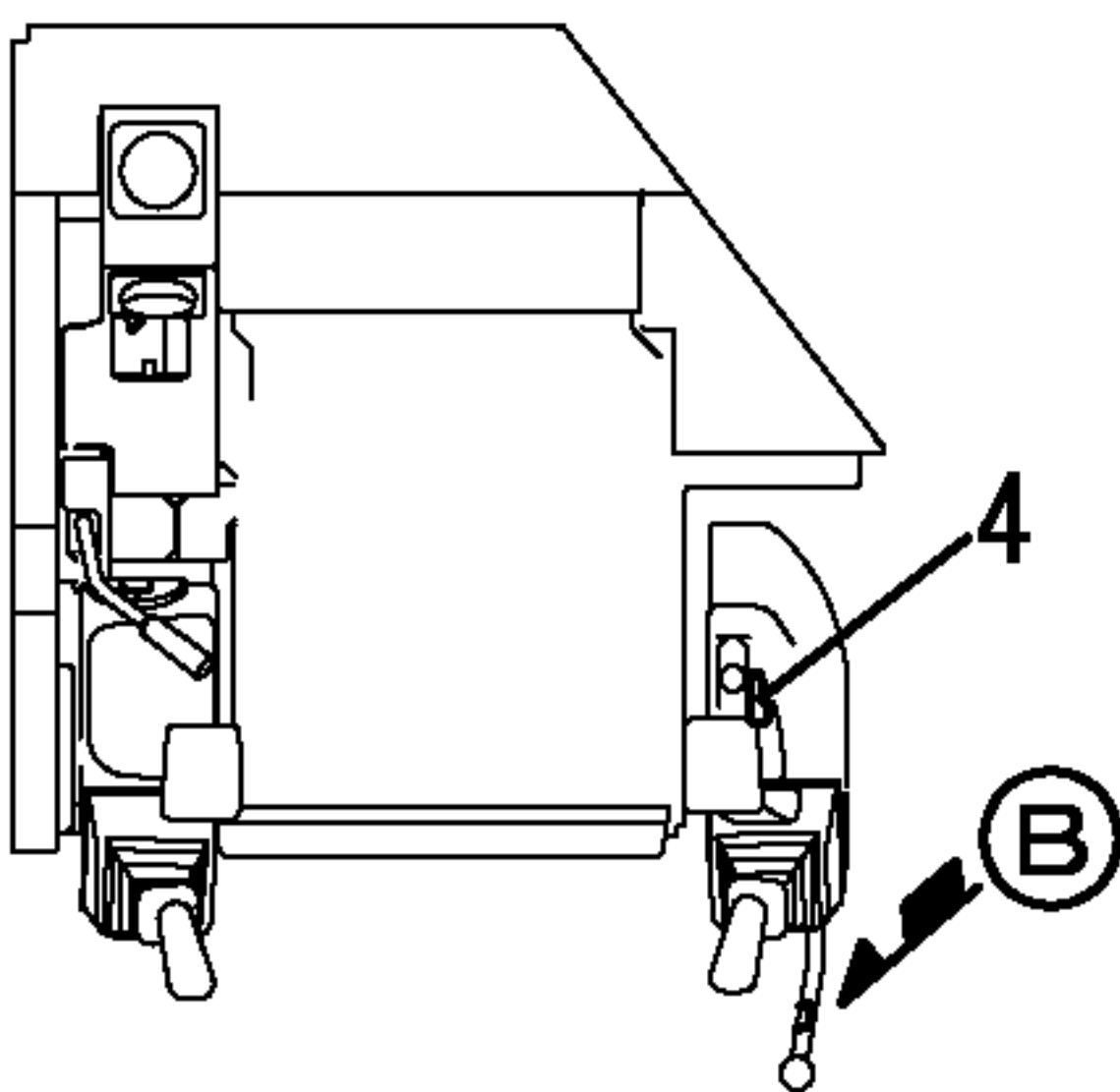
VIEWED FROM (C)



VIEWED FROM (E)

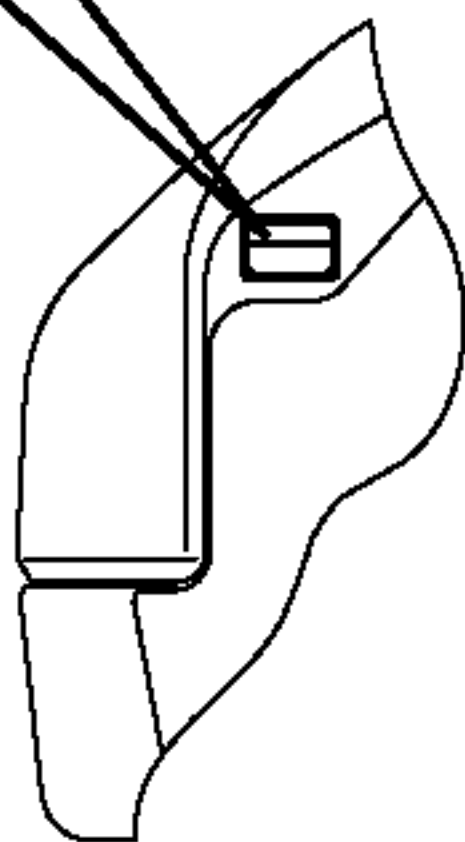


VIEWED FROM (F)

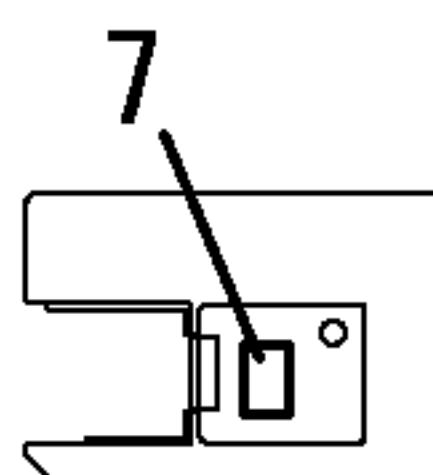


VIEWED FROM (A)

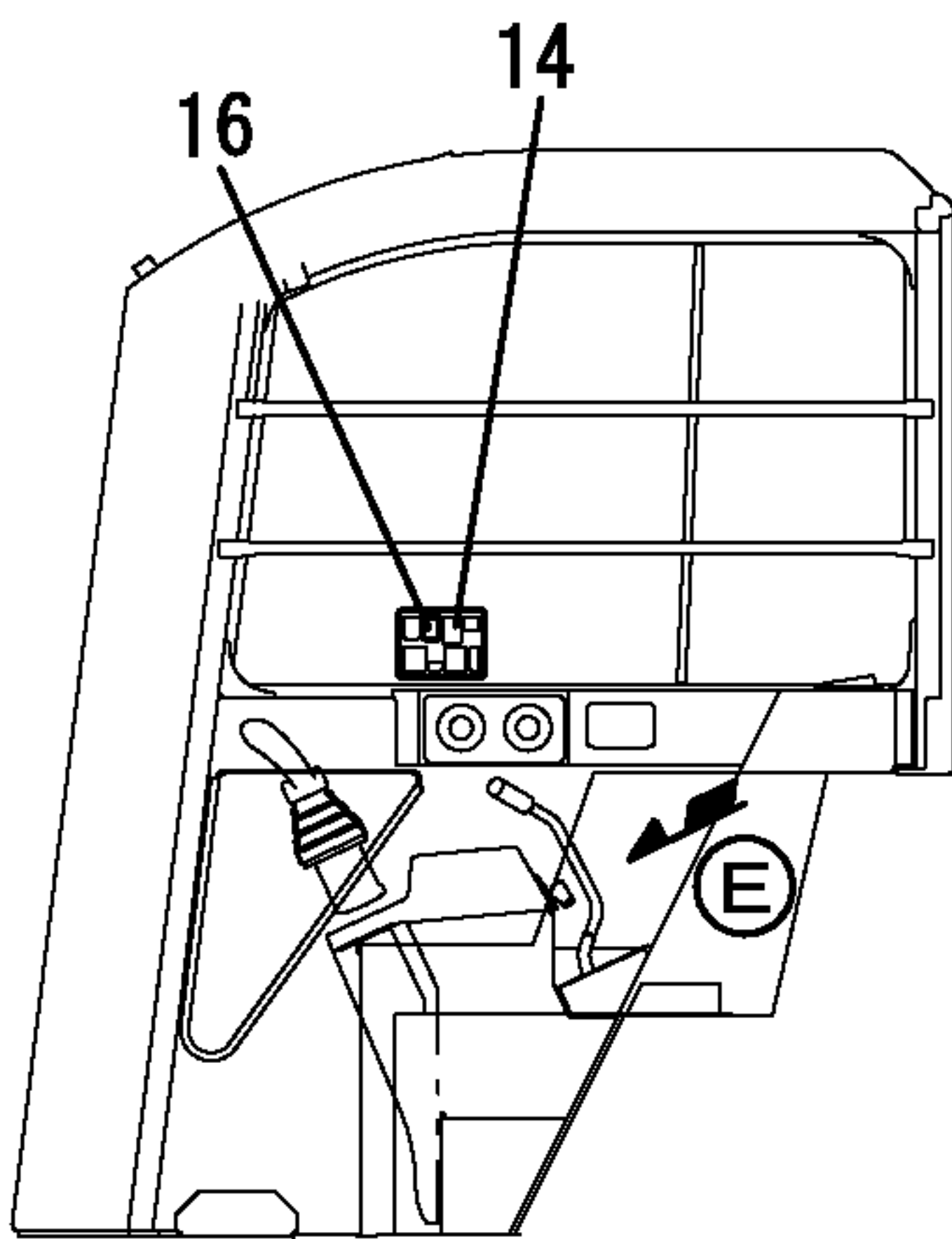
MACHINE SERIAL No.
ENGINE No. IS STAMPED
INTO THIS LOCATION.



VIEWED FROM (G)



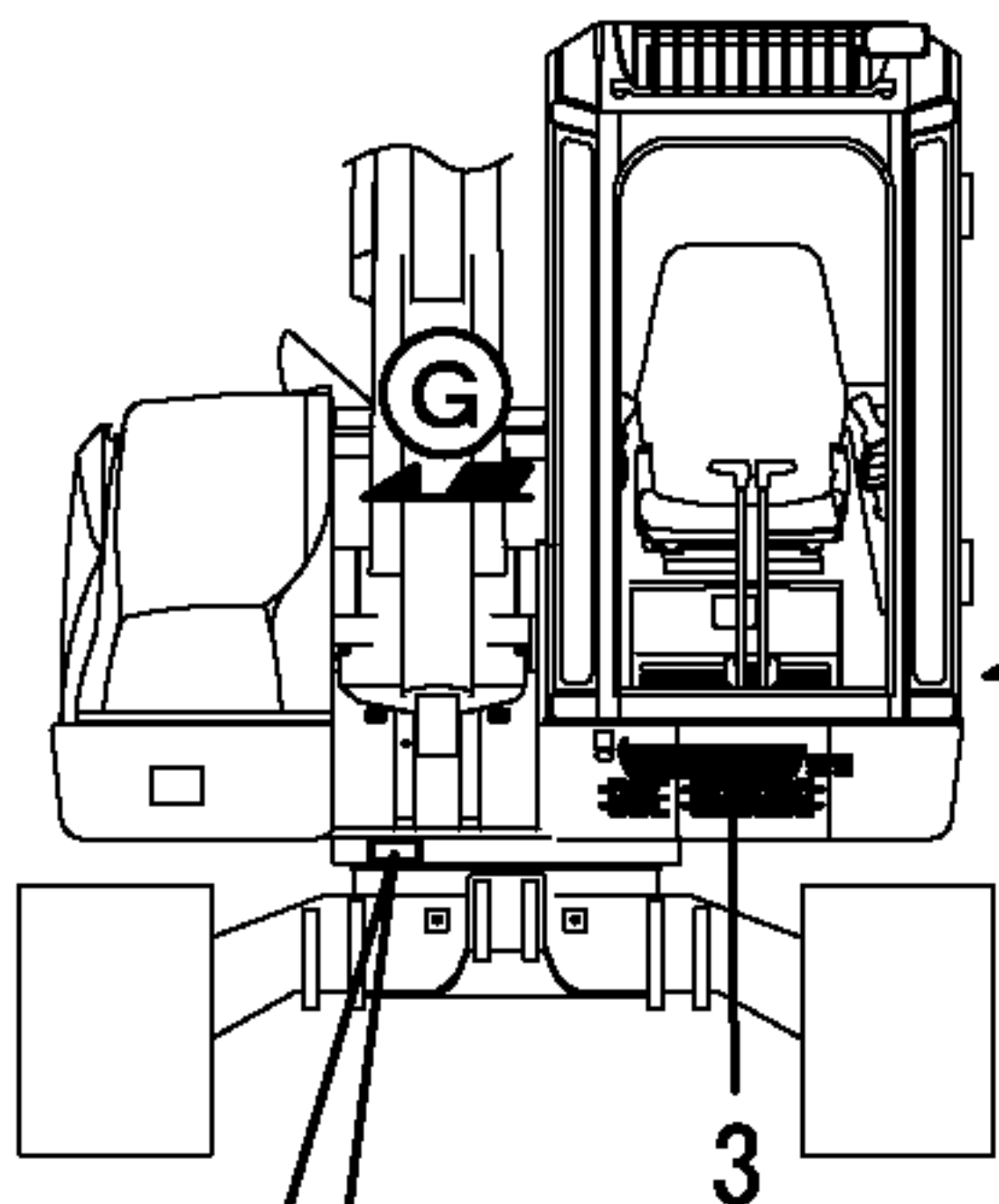
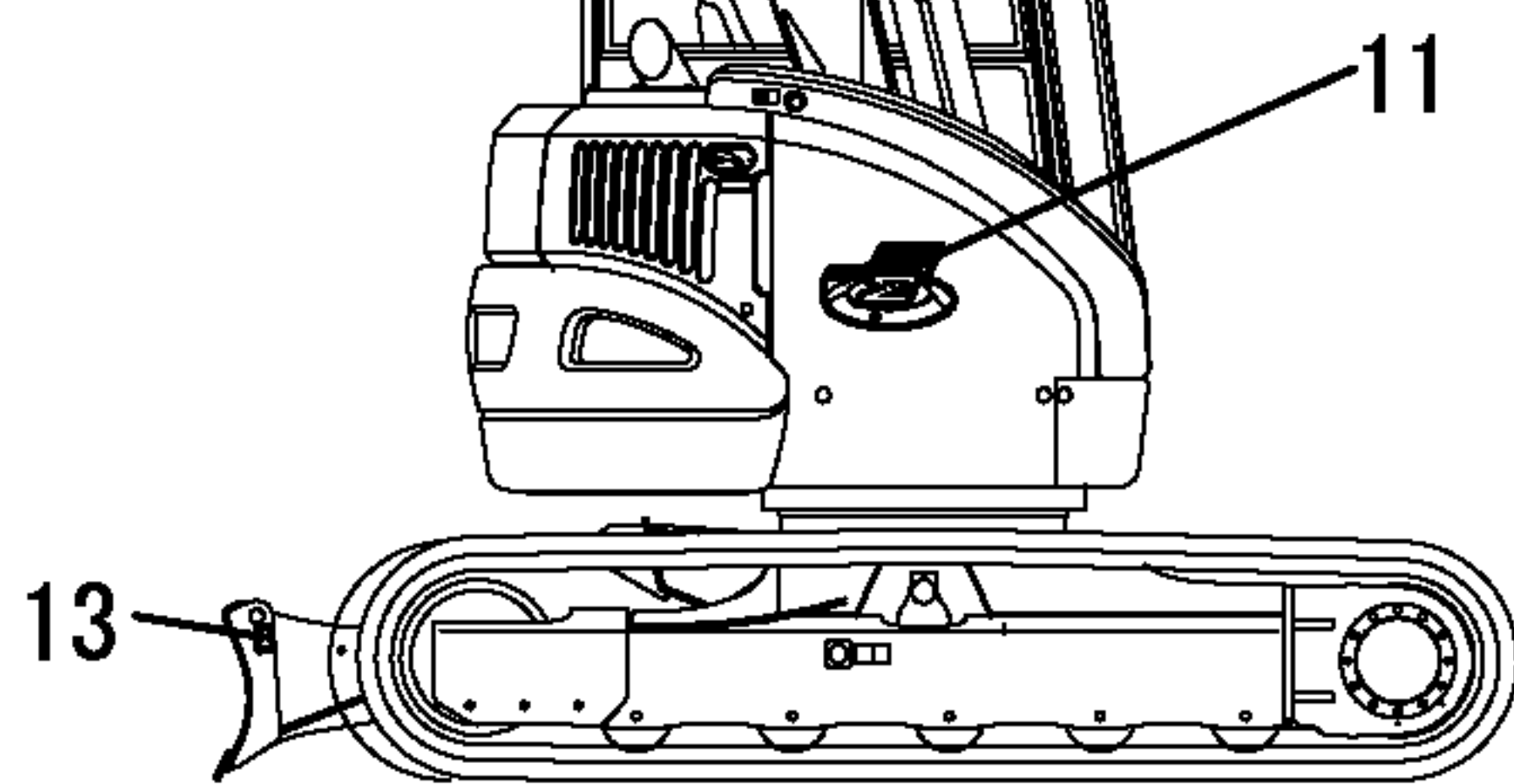
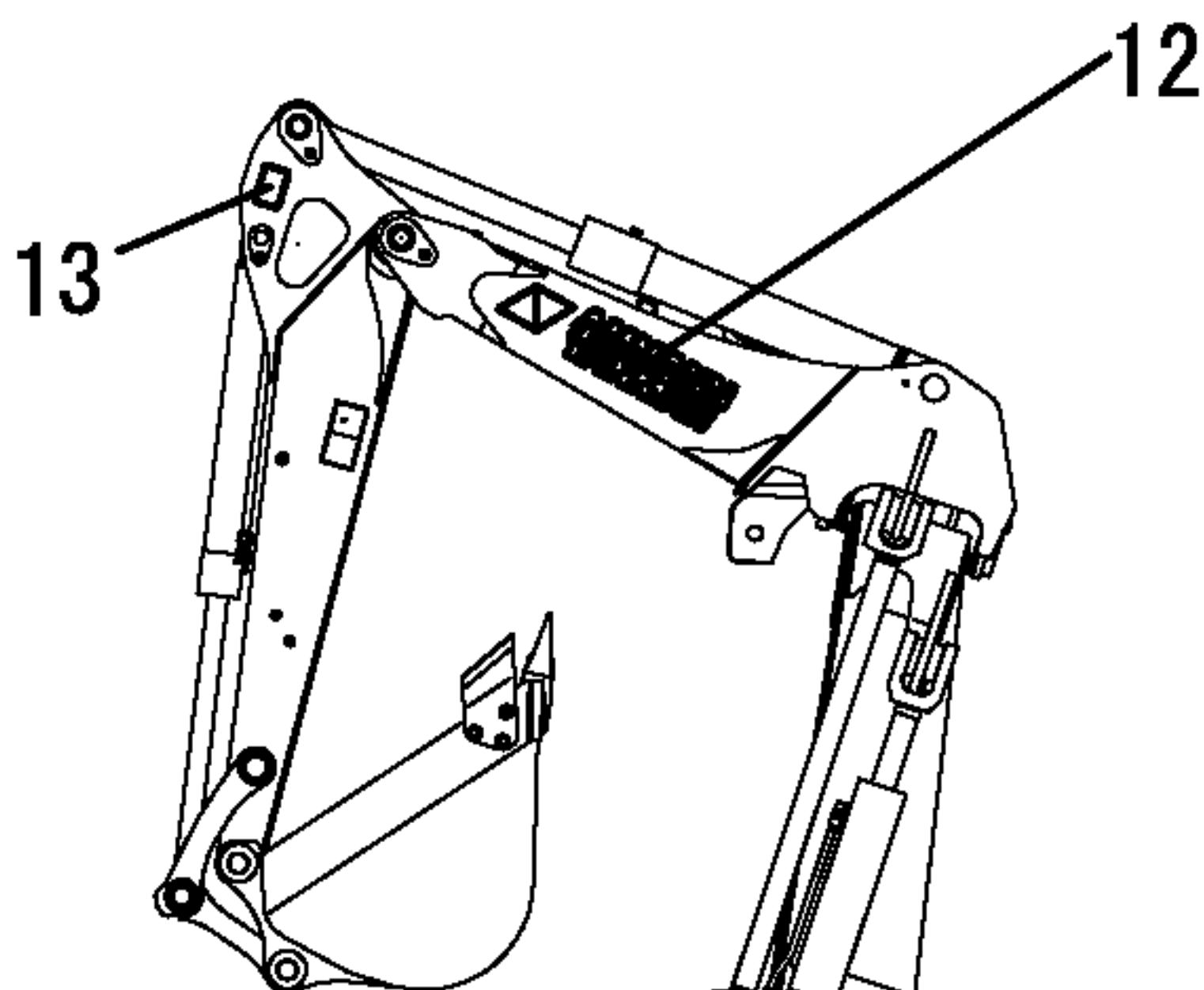
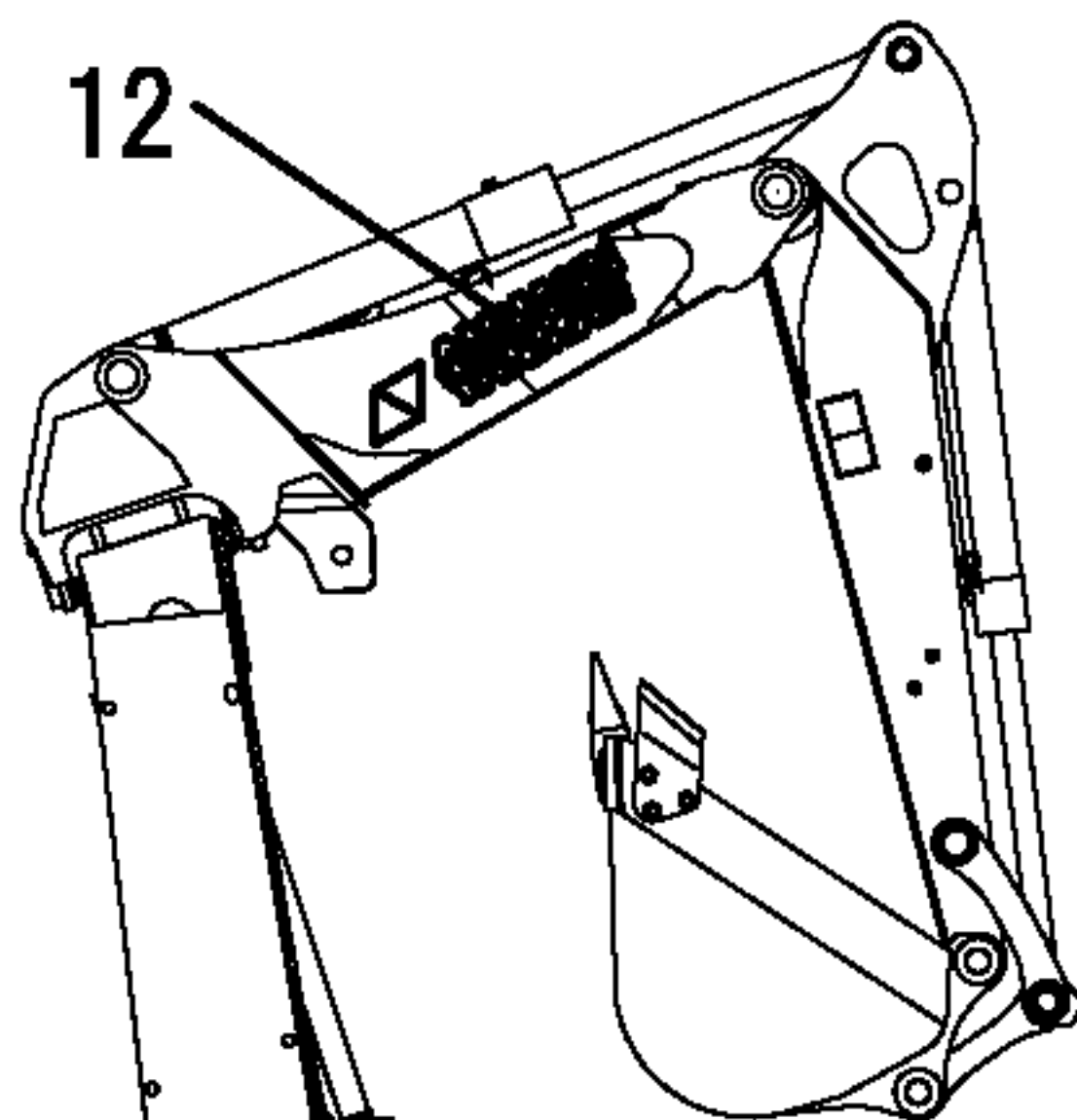
STEP INSIDE



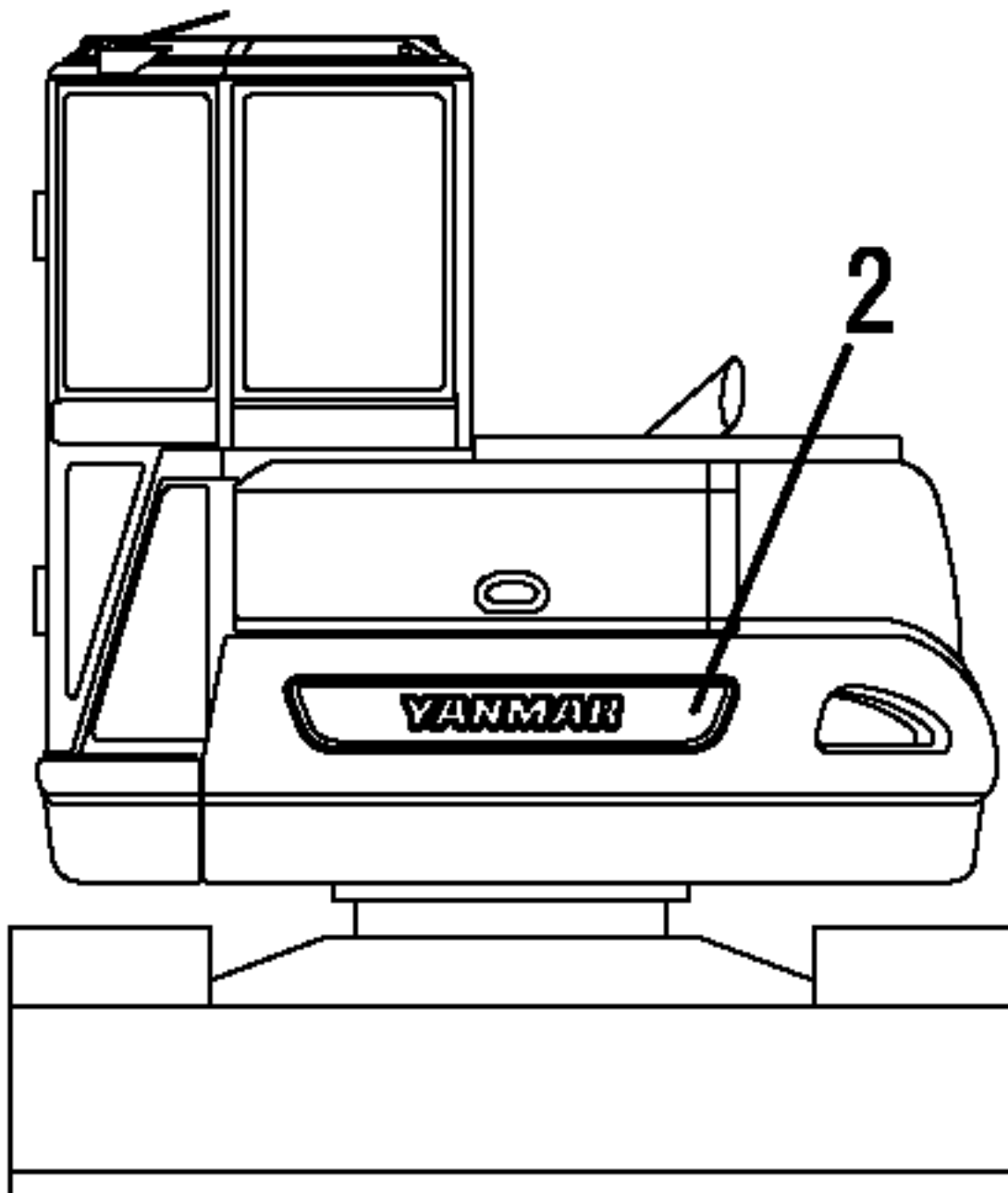
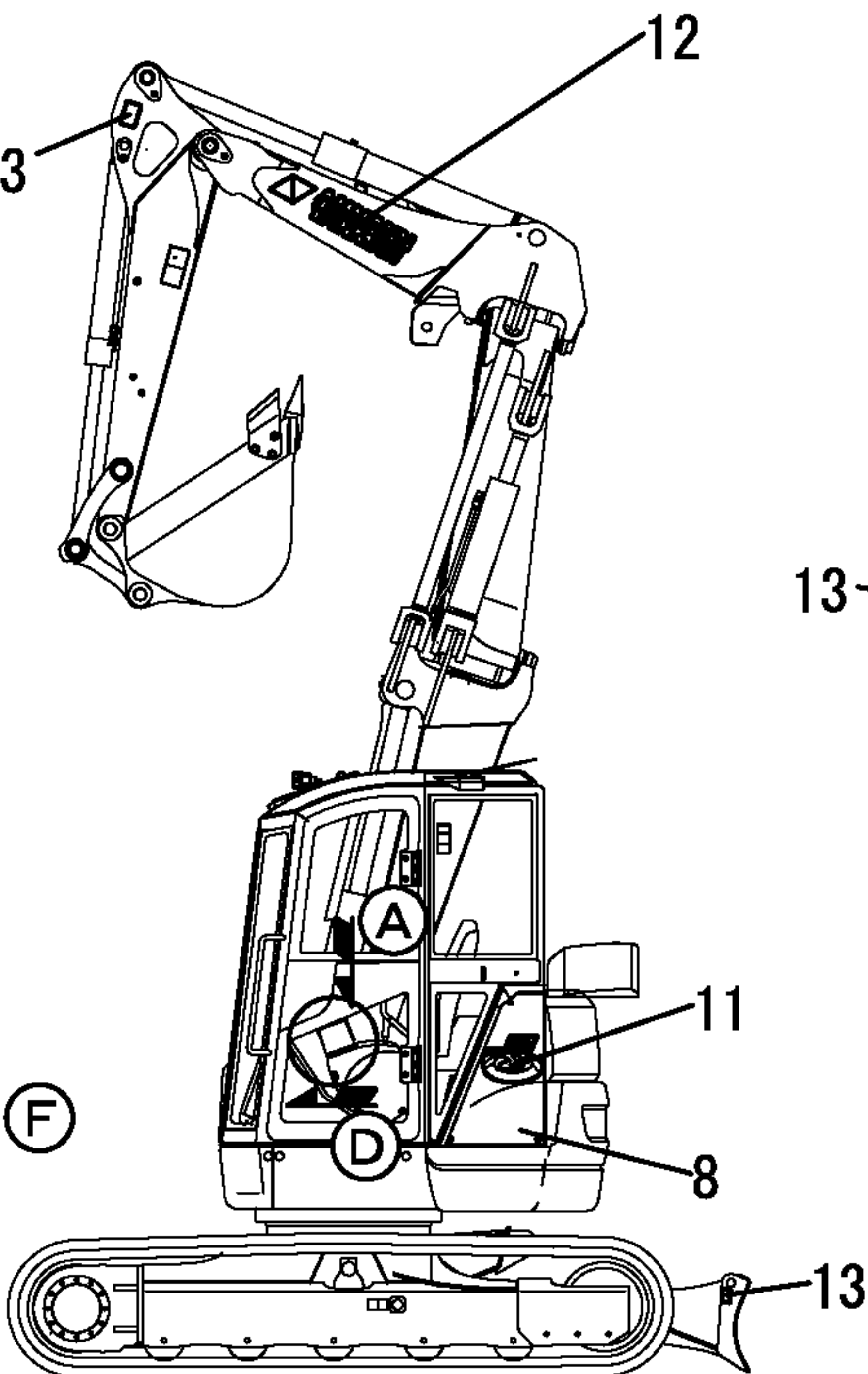
DETAILS OF
CABIN INSIDE



IN THE OPERATION
MANUAL CASE



MACHINE SERIAL No.
IS STAMPED INTO
THIS LOCATION.

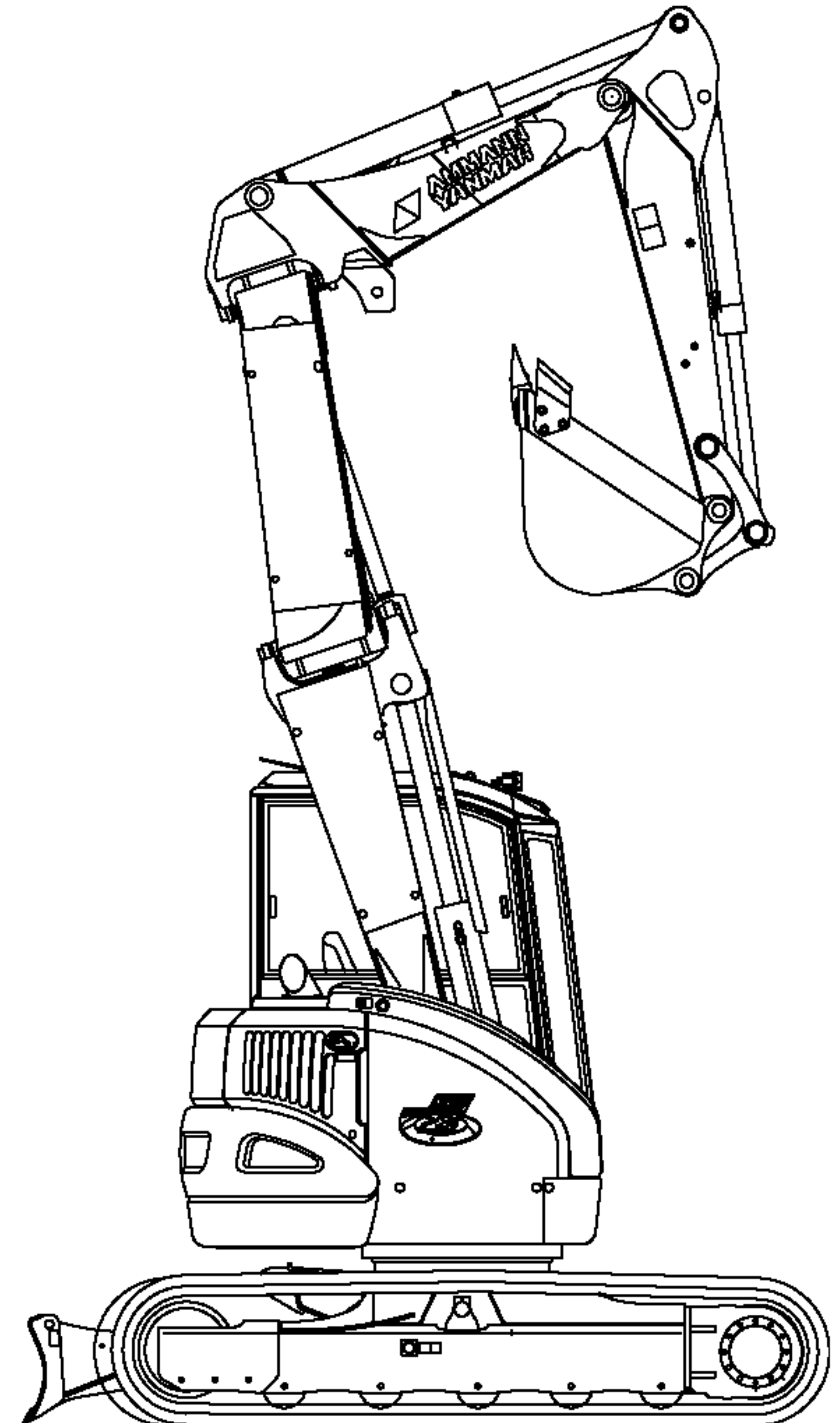
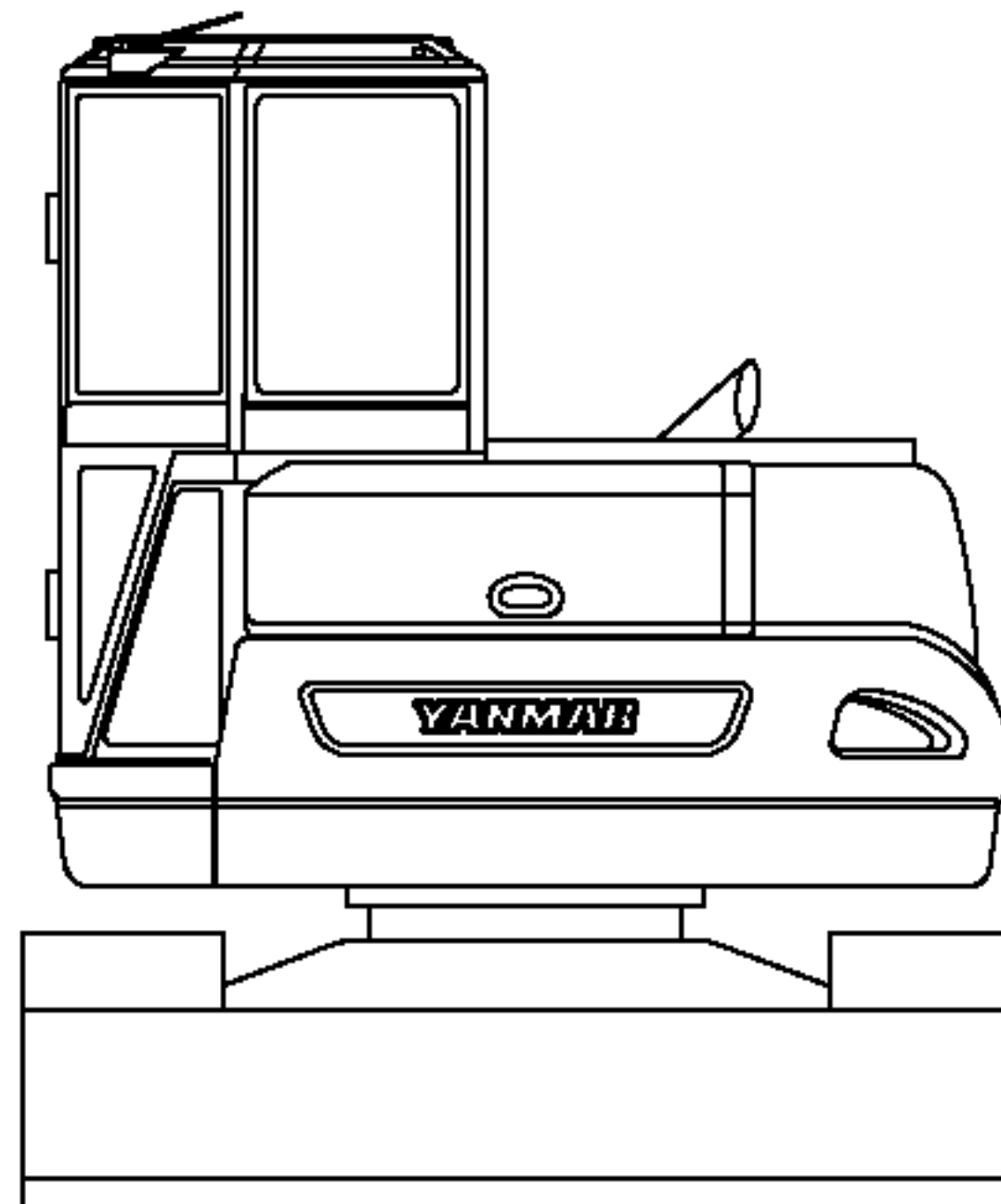
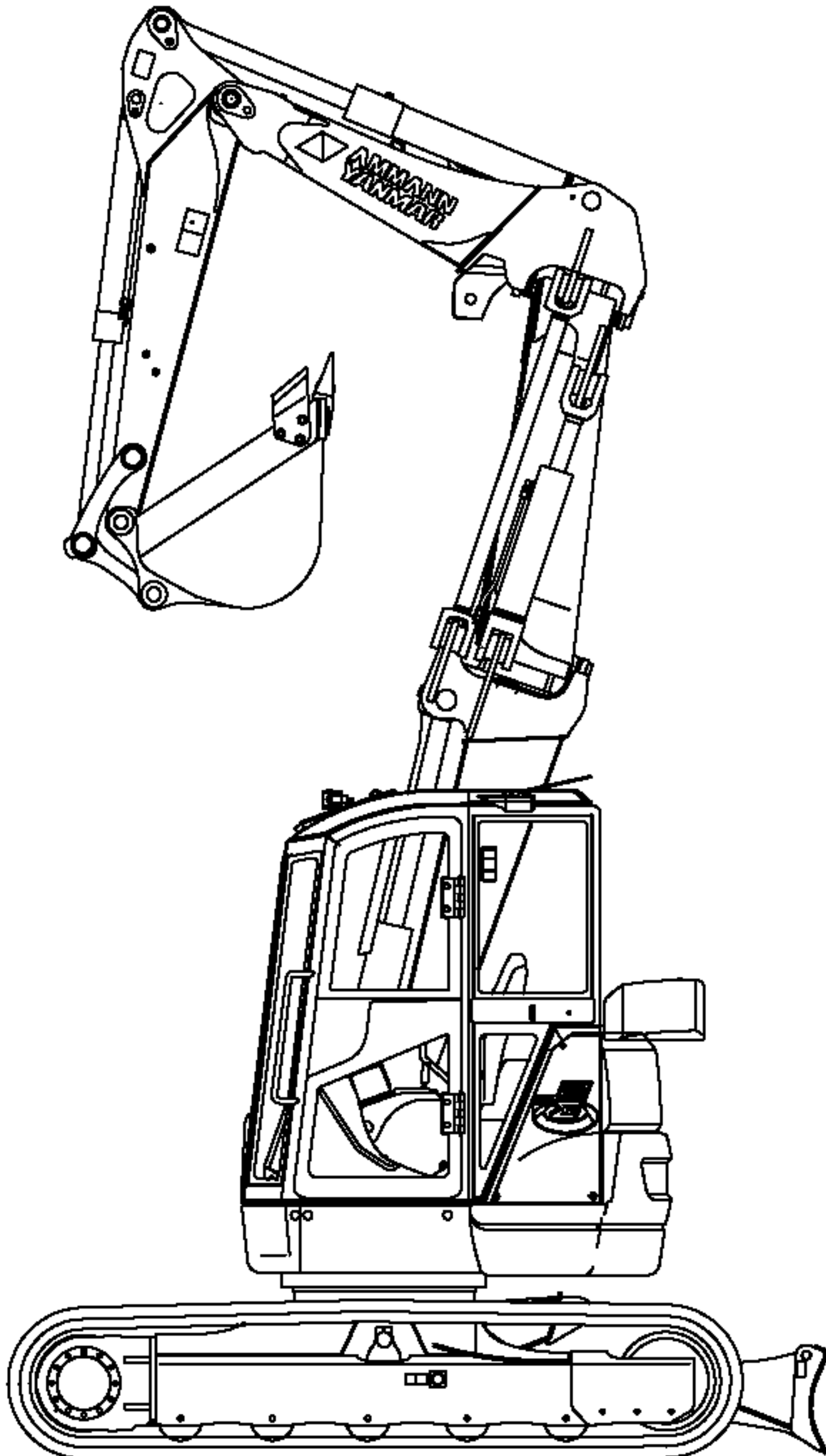


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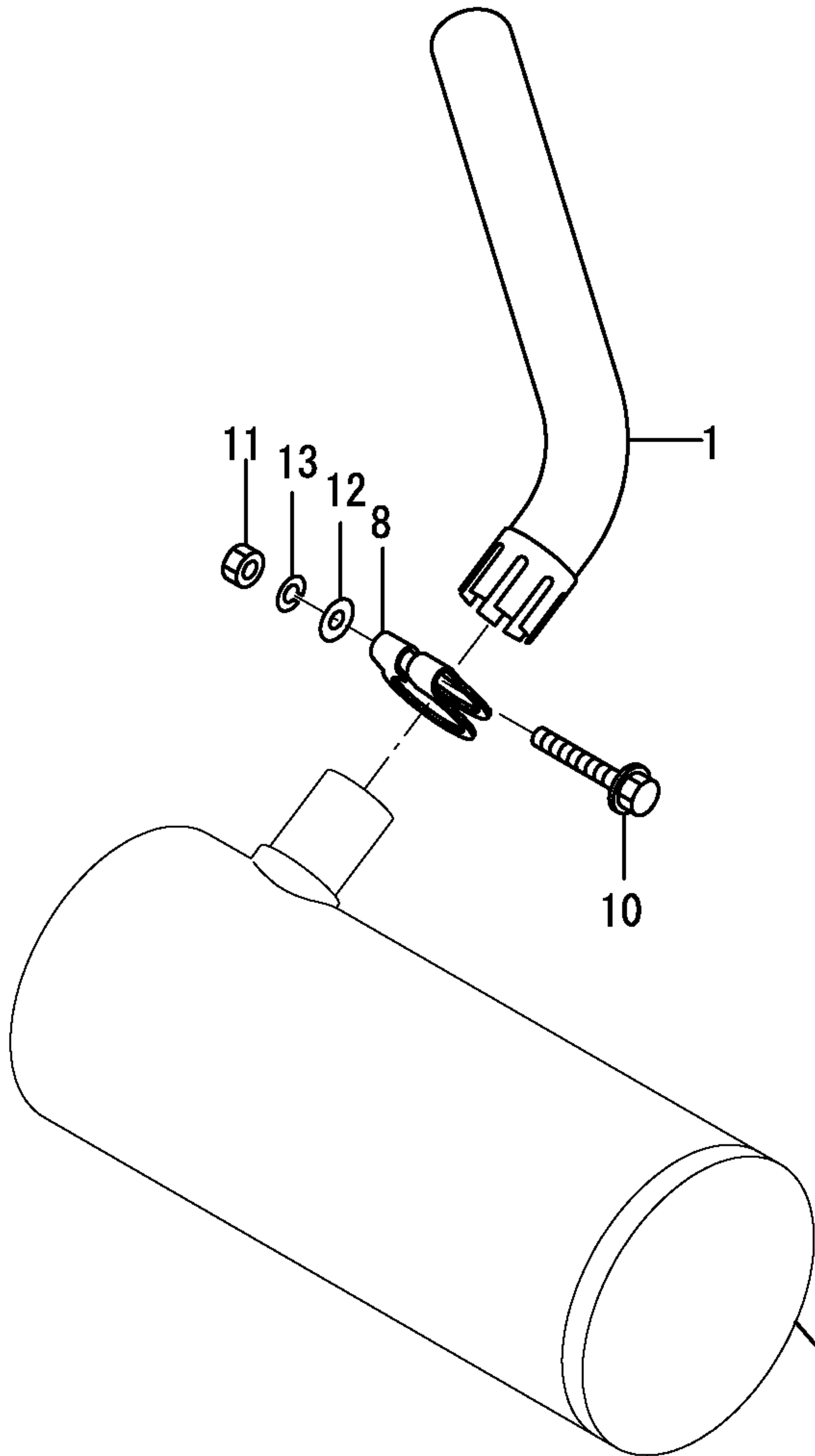
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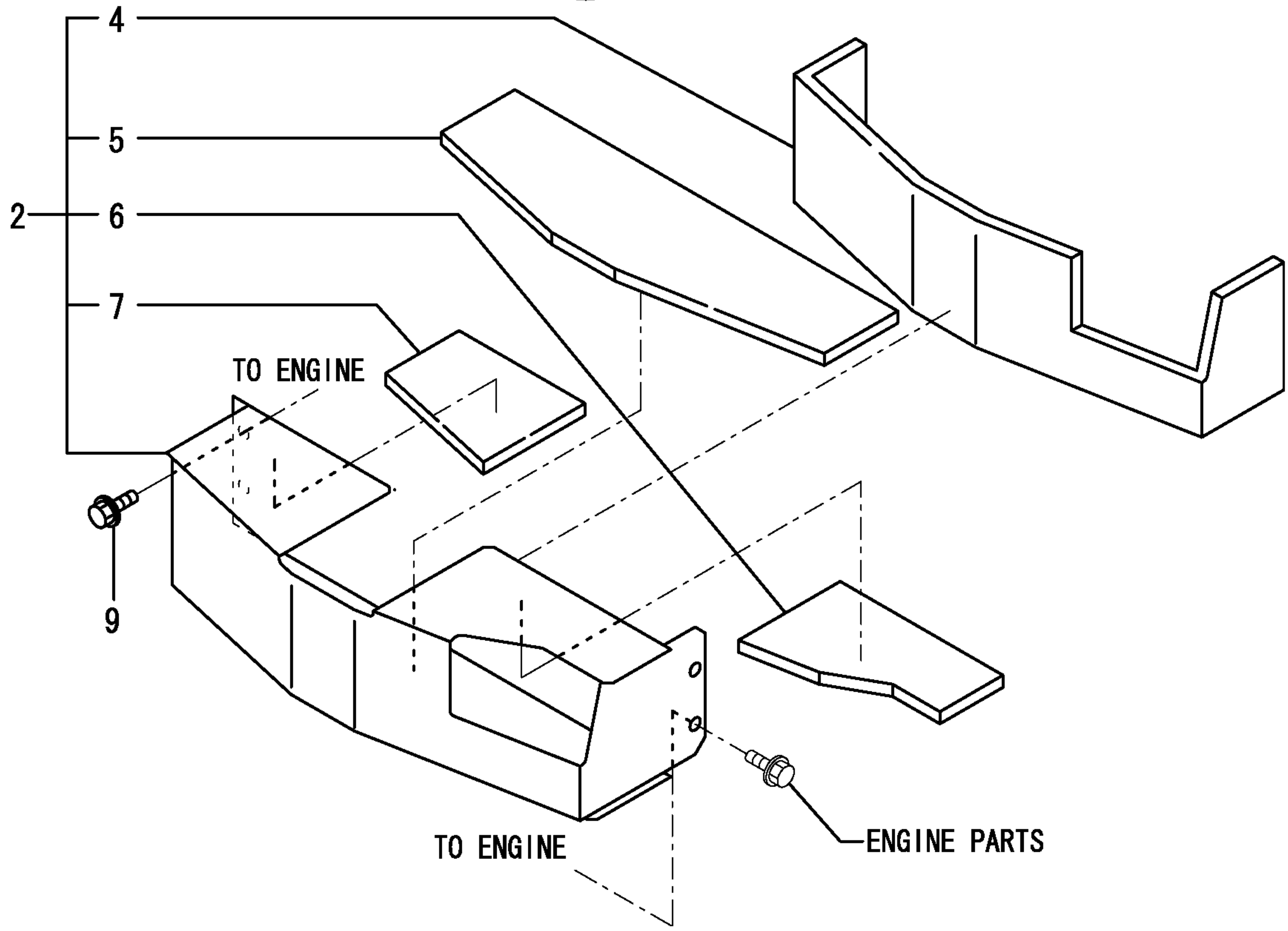
IN THE OPERATION
MANUAL CASE



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5,2,,172478-11530,, "GLASS WOOL, B",1,,,,,,,,,,,,,,,,,
6,2,,172478-11540,, "GLASS WOOL, C",1,,,,,,,,,,,,,,,,,
7,2,,172478-11550,, "GLASS WOOL, D",1,,,,,,,,,,,,,,,,,
8,1,,121120-13580,, CLAMP,1,,,,,,,,,,,,,,,,,
9,1,,172519-63240,, "BOLT 8X 16",2,,,,,,,,,,,,,,,,,
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11,1,,22217-100000,, "SPRING WASHER 10",1,,,,,,,,,,,,,,,,,
12,1,,26106-100652,, "BOLT M10X 65 PLATED",1,,,,,,,,,,,,,,,,,
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ENGINE PARTS

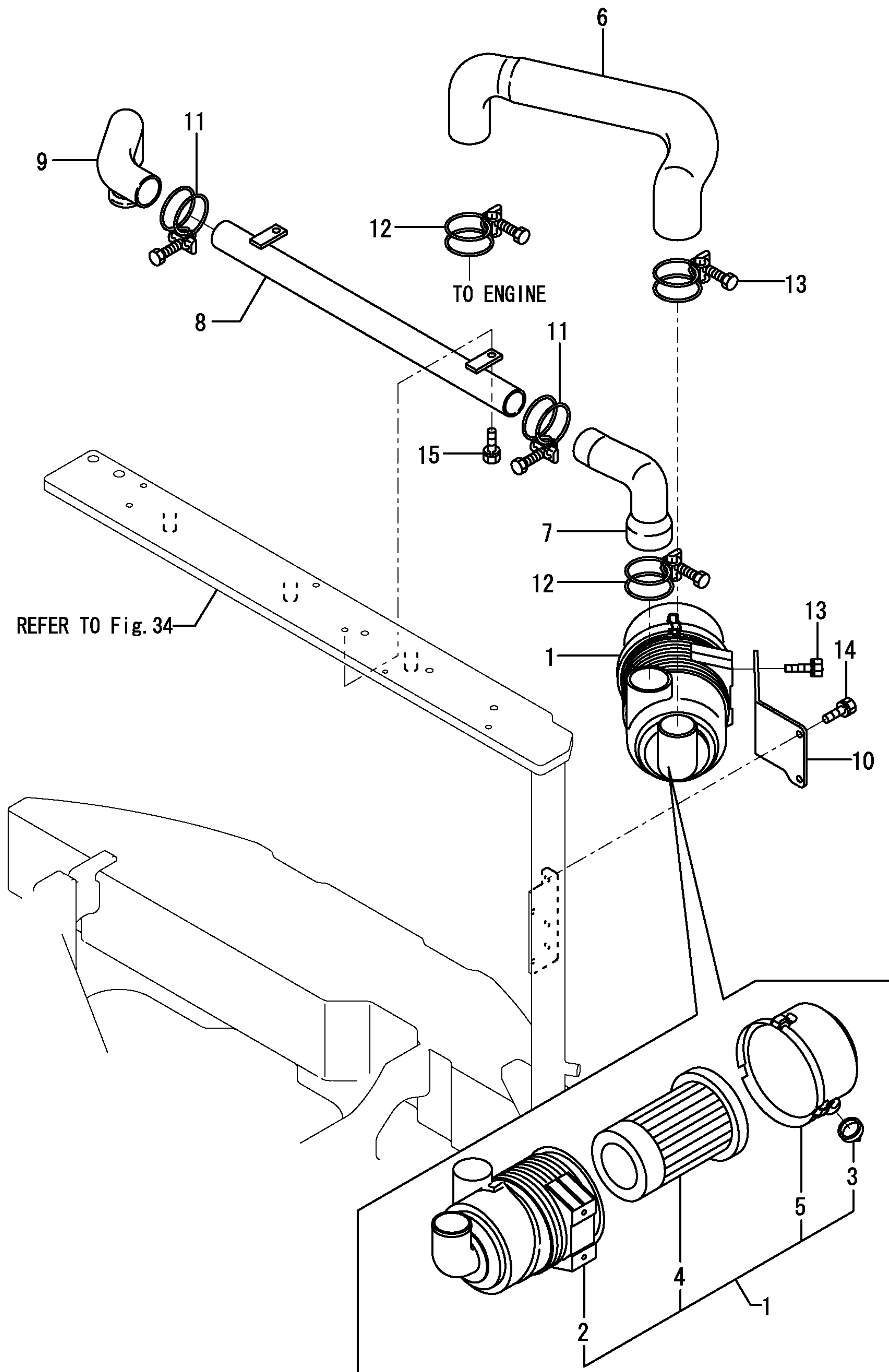


TO ENGINE

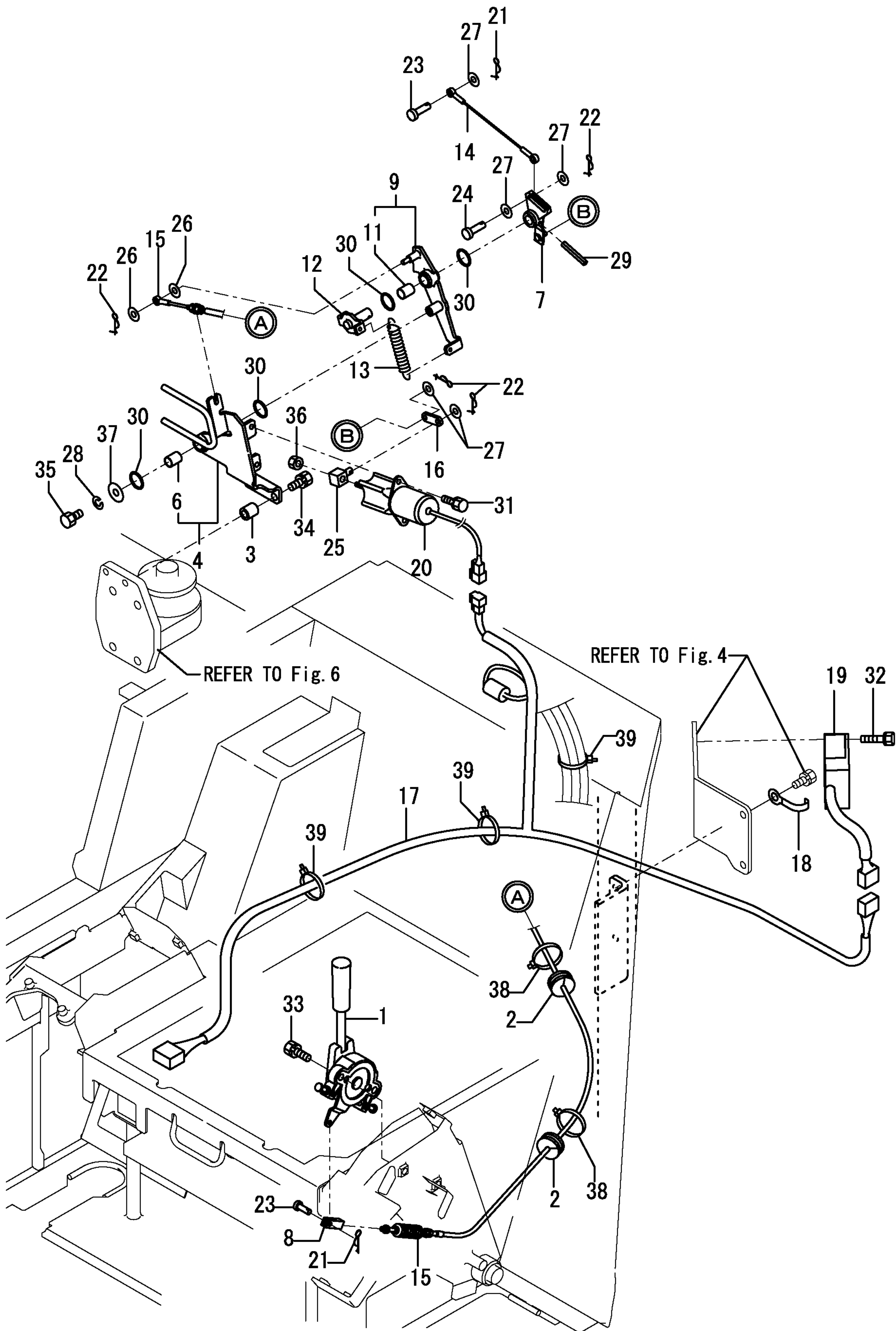
TO ENGINE

ENGINE PARTS

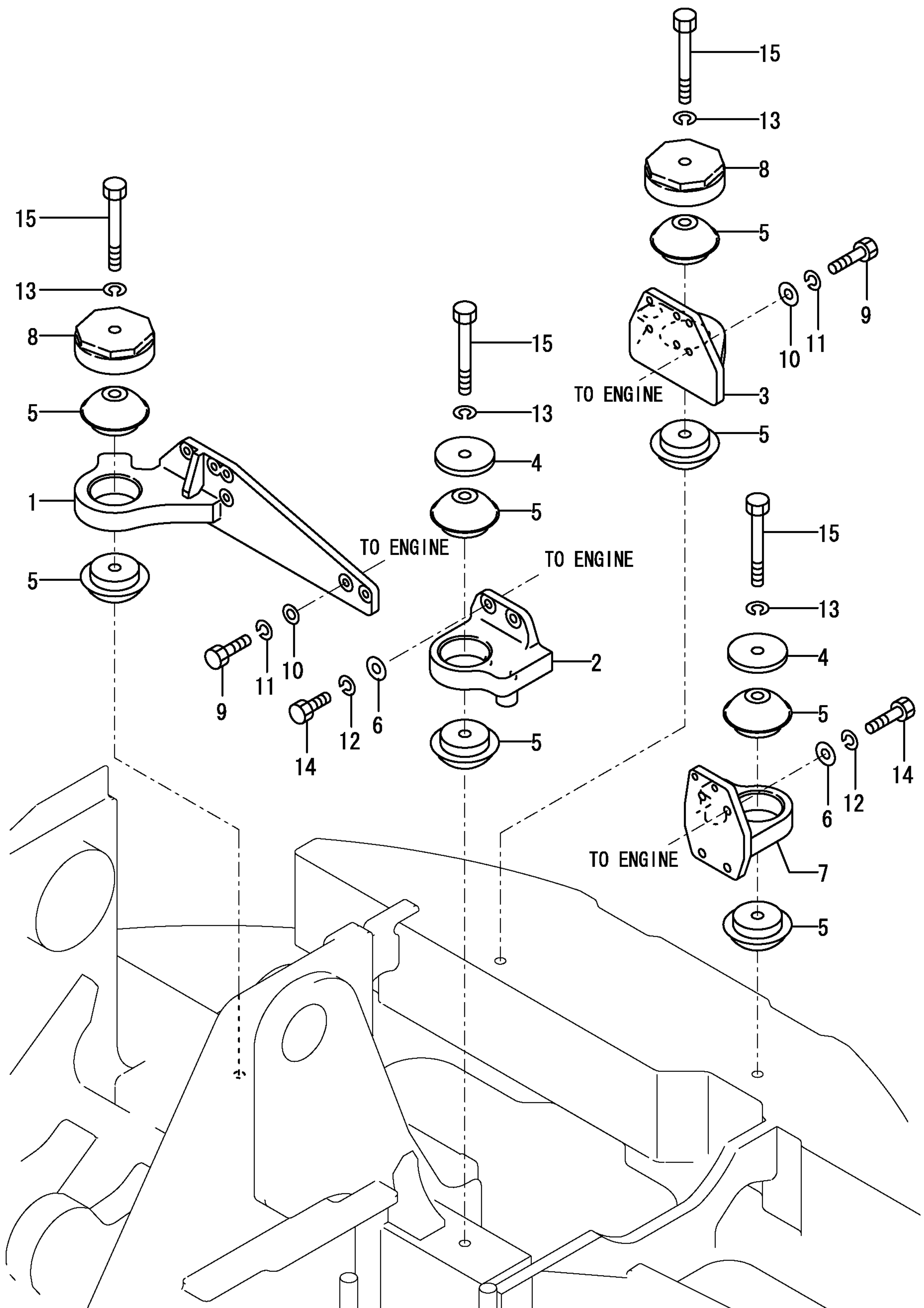
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5,2,,129062-12570,, COVER-ASSY,1,,,,,,,,,,,,,
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8,1,,172455-11550,, "PIPE, SUC.",1,,,,,,,,,,,,,
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12,1,,23000-080000,, "CLAMP 80",3,,,,,,,,,,,,,
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14,1,,26013-100202,, "BOLT W/WASHER M10X20",2,,,,,,,,,,,,,
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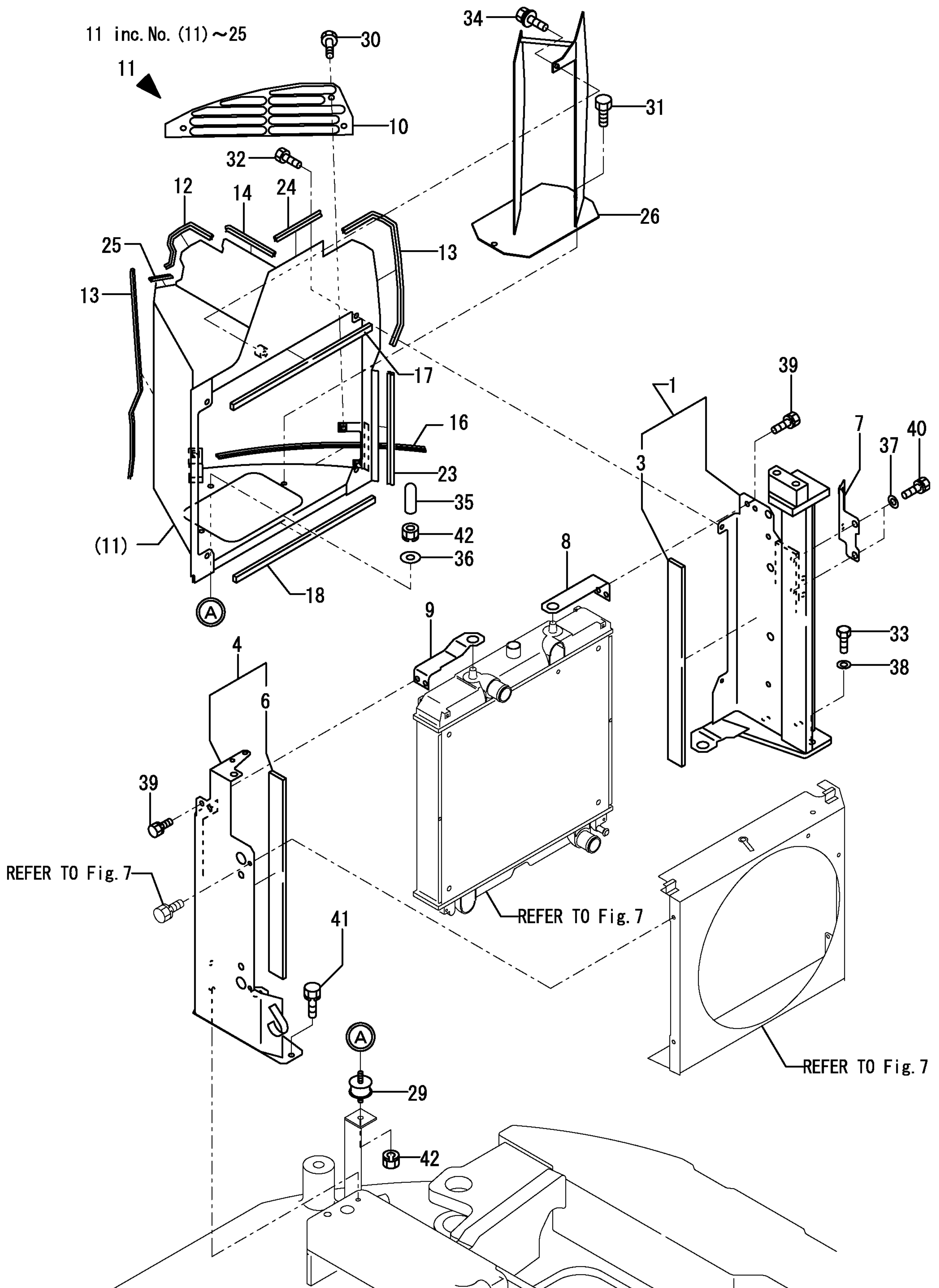
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6,1,,172165-13220,, WASHER,8,,,,,,,,,,,,,
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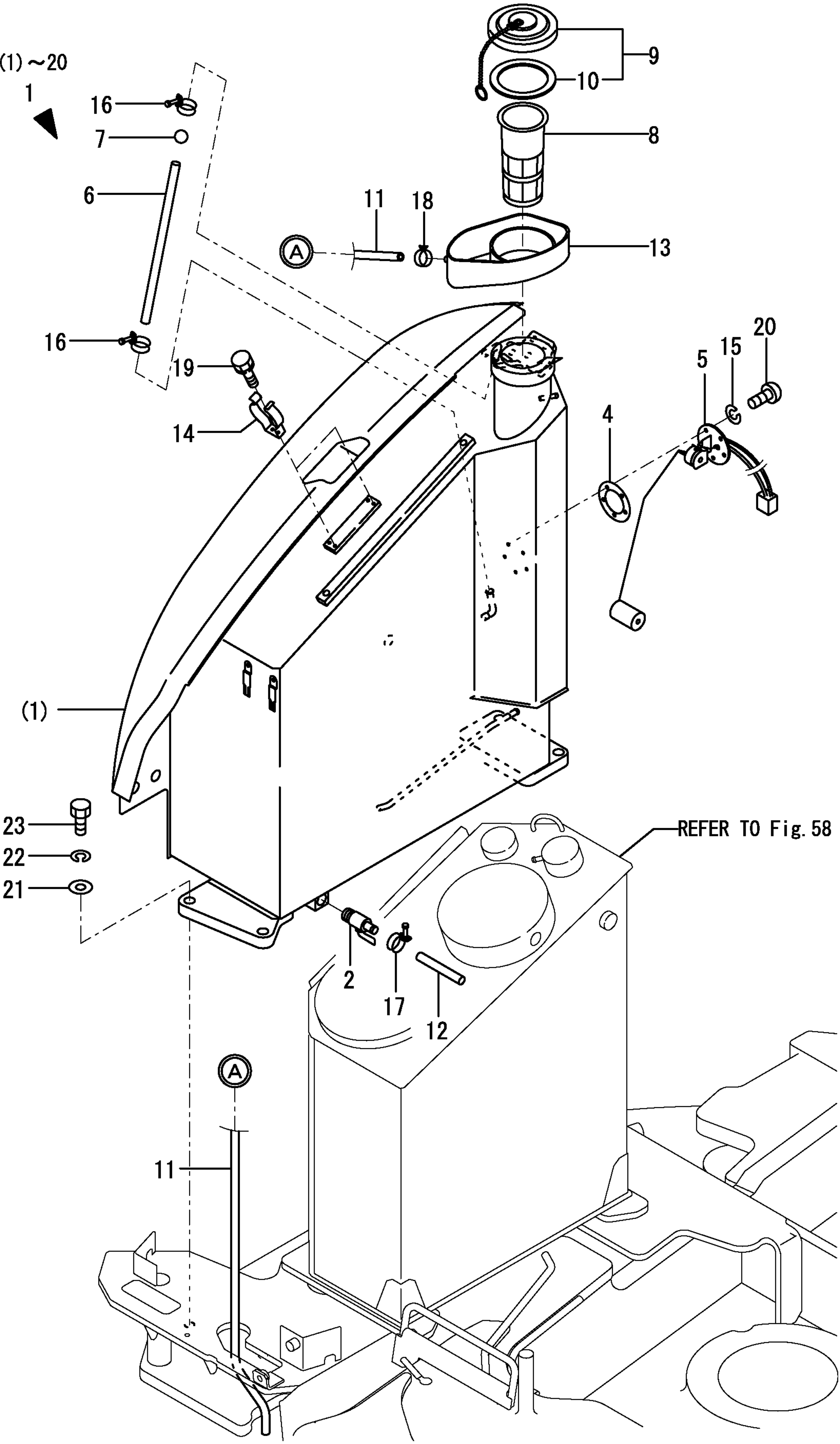


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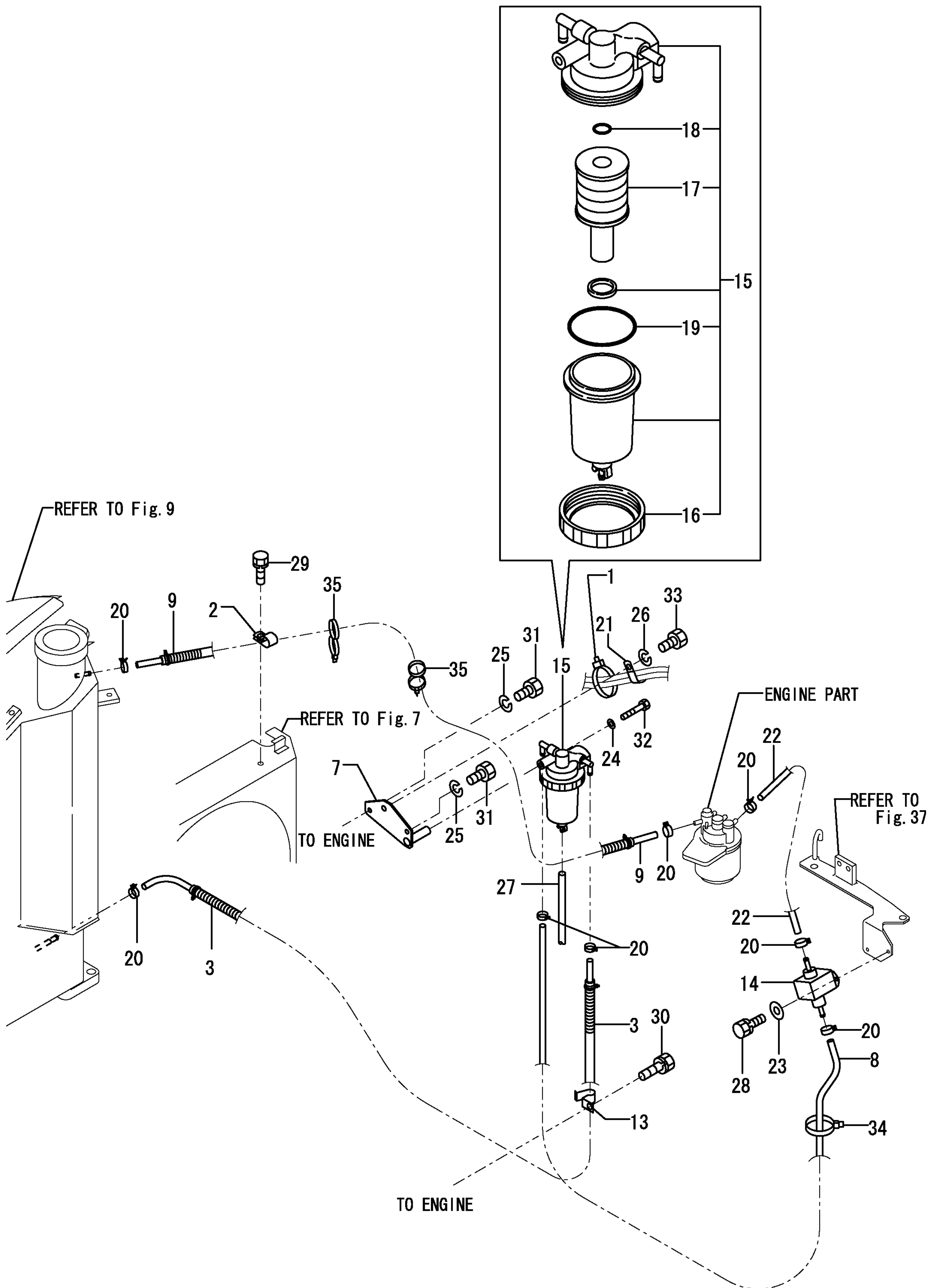


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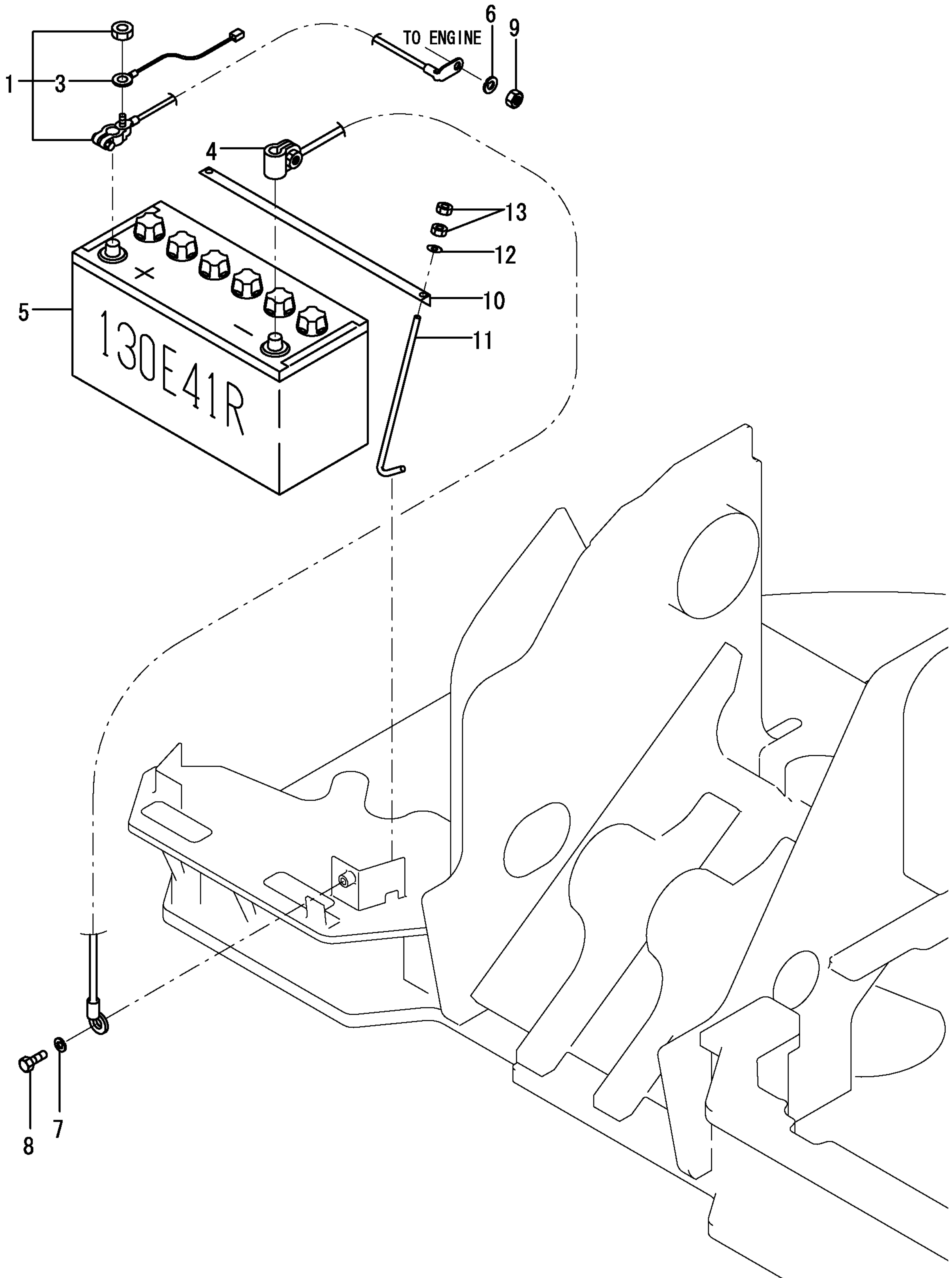
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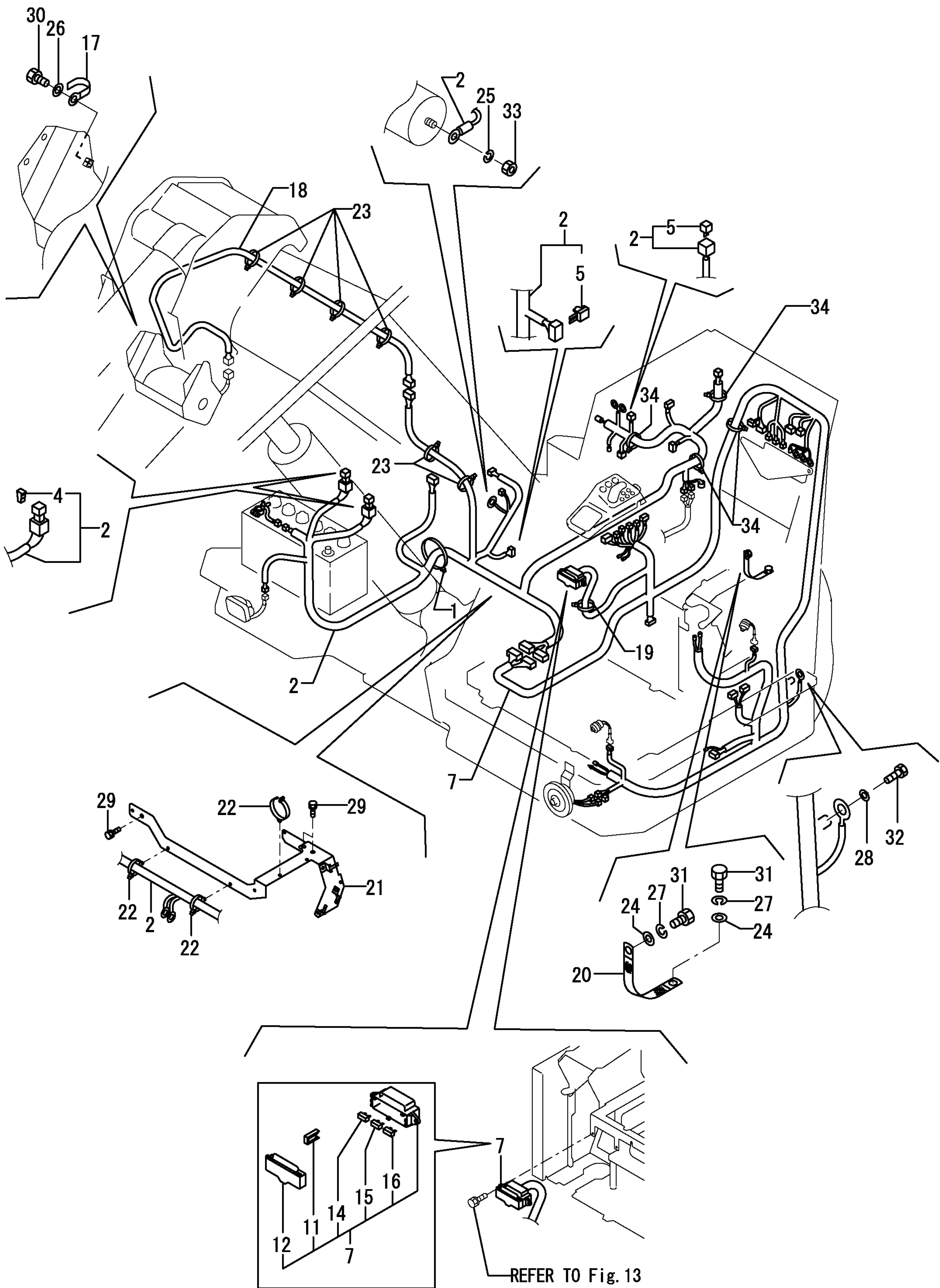
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17,2,,119802-55710,, ELEMENT,1,,,,,,,,,,,,,
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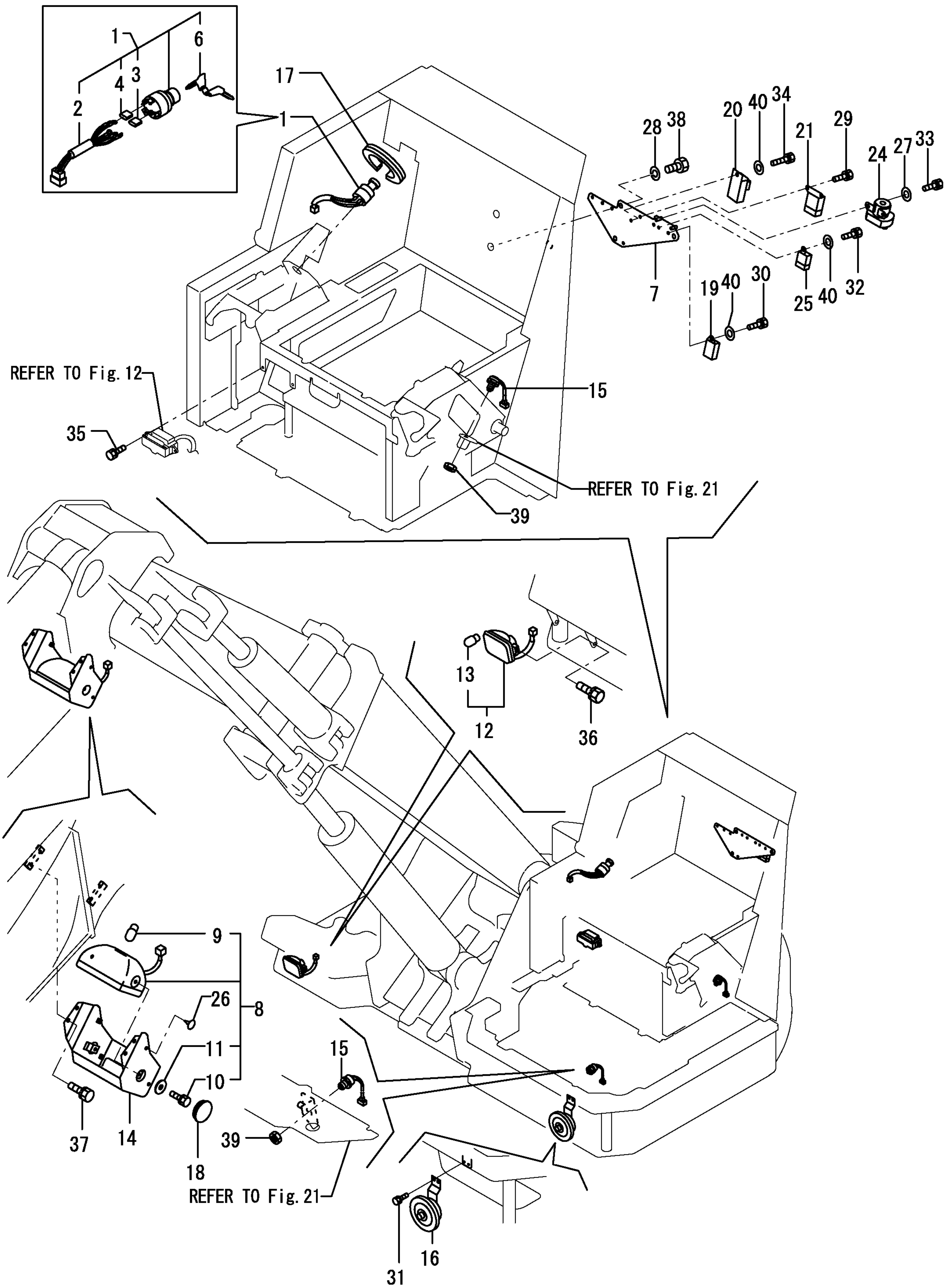
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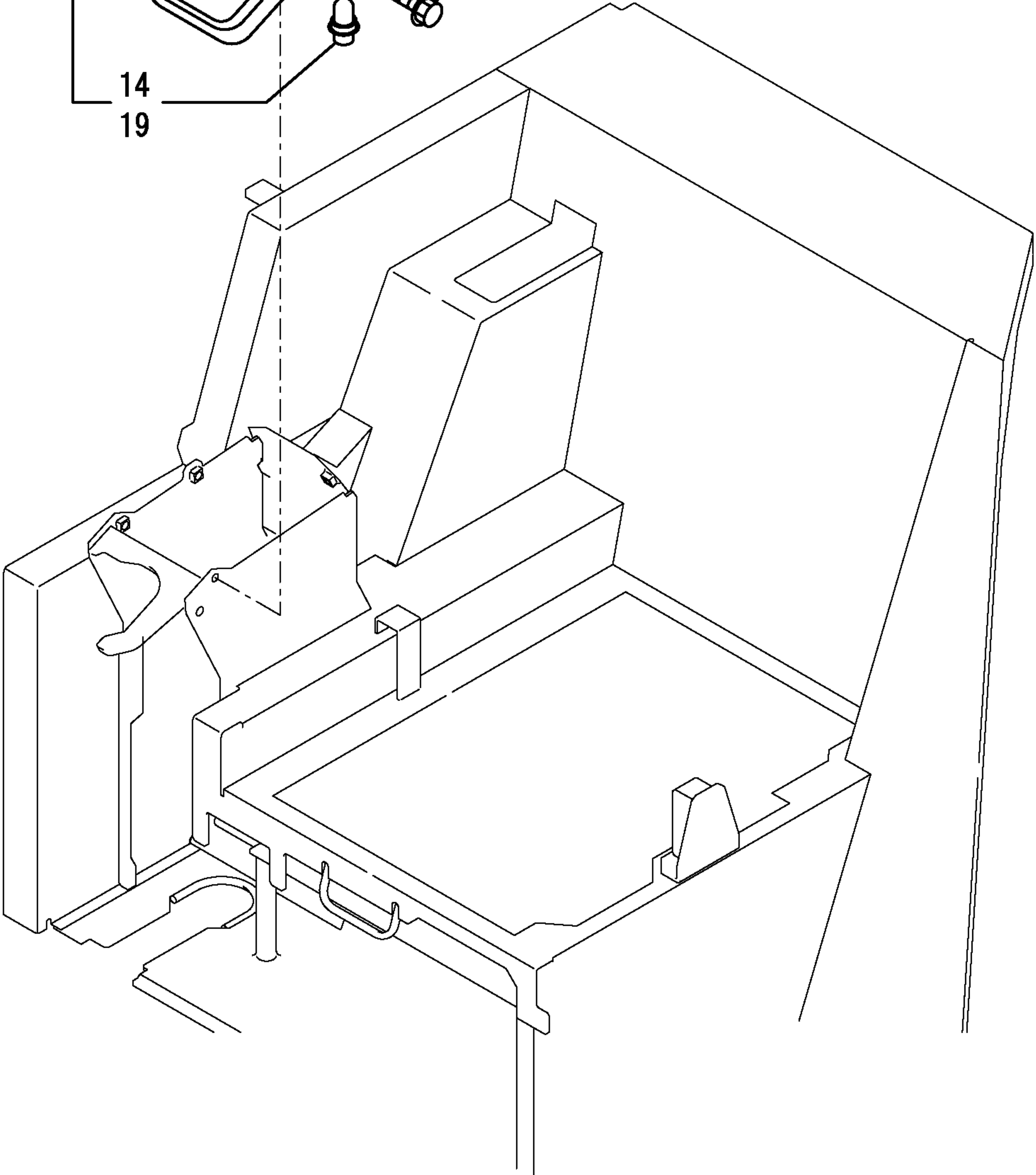
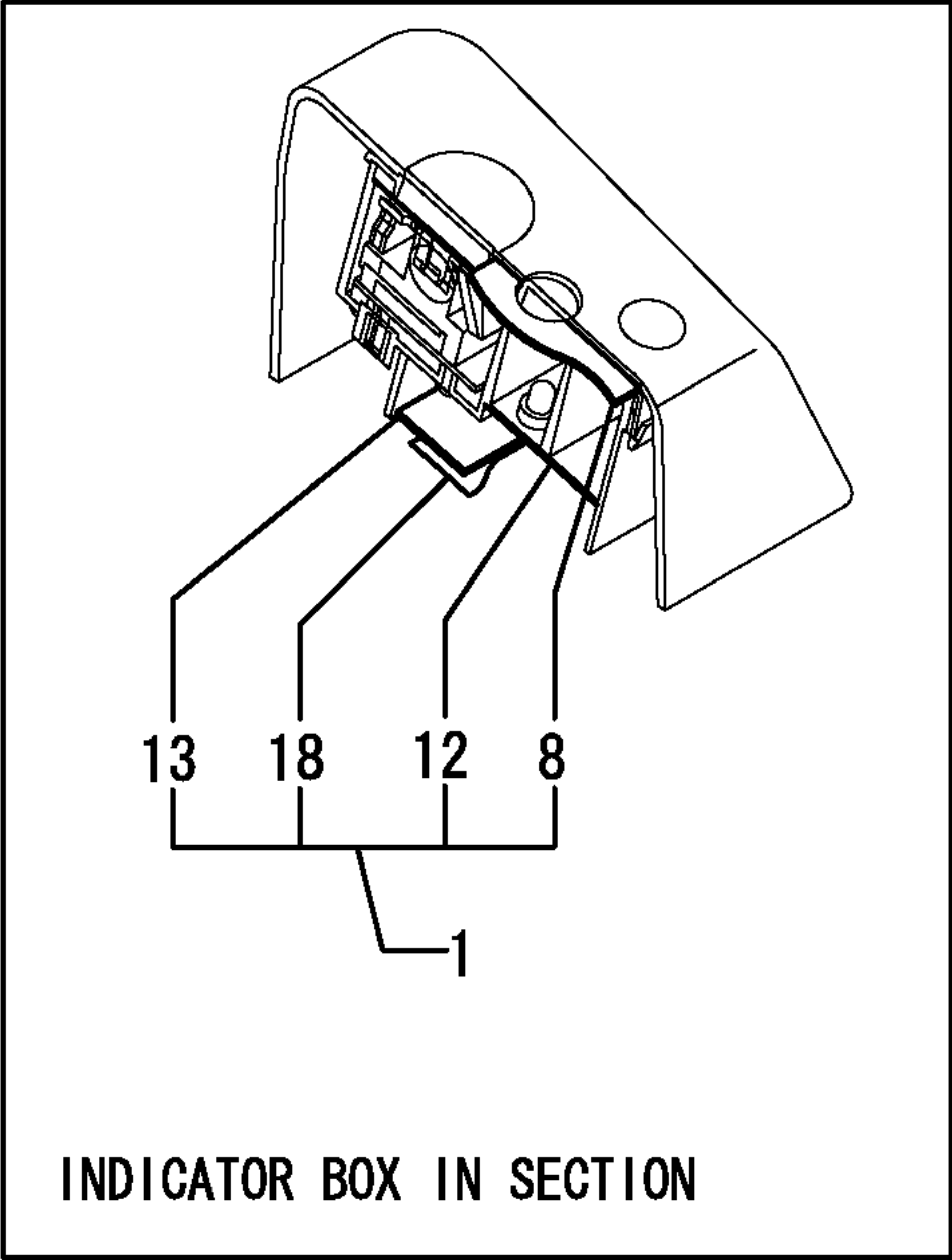
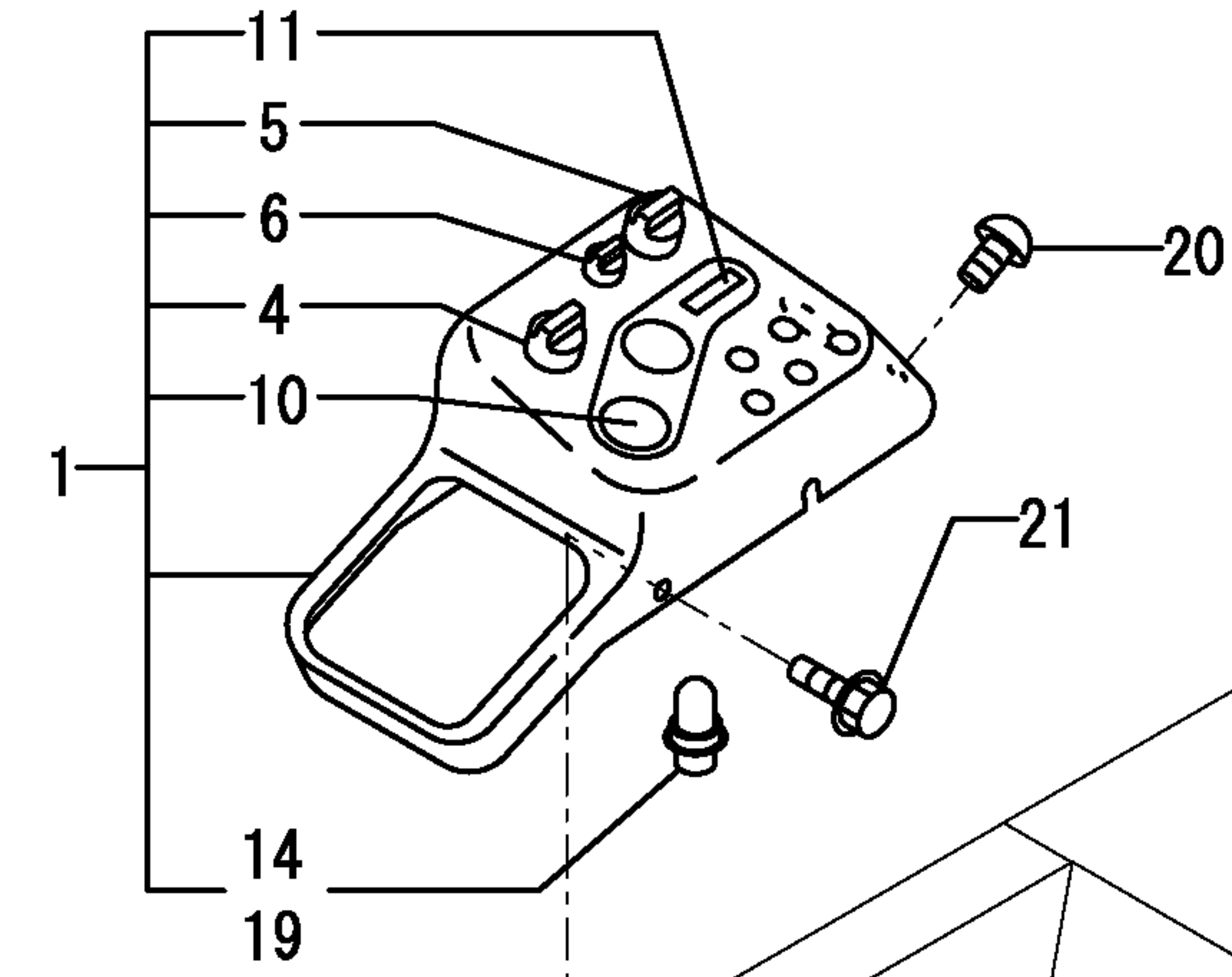
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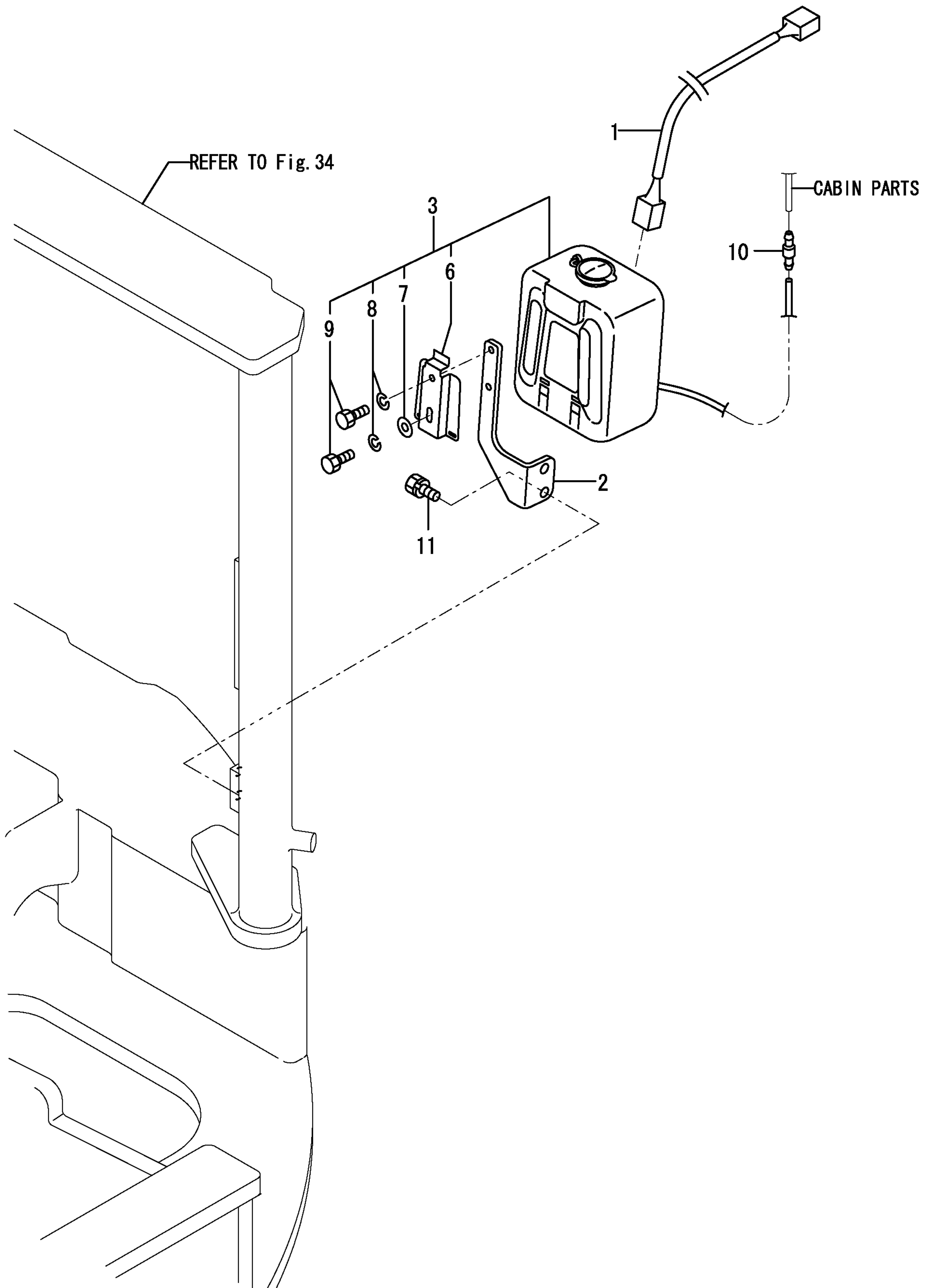
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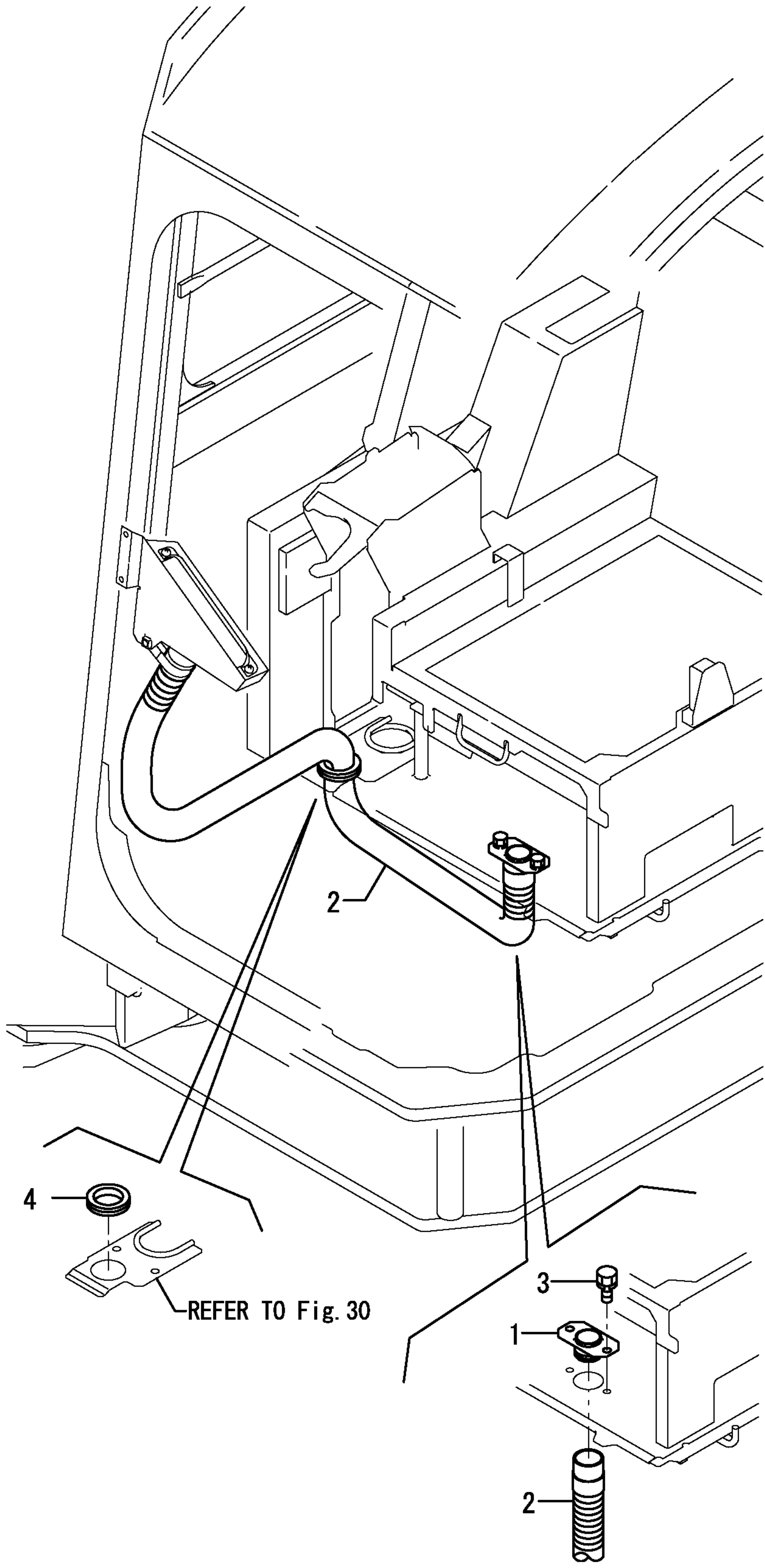


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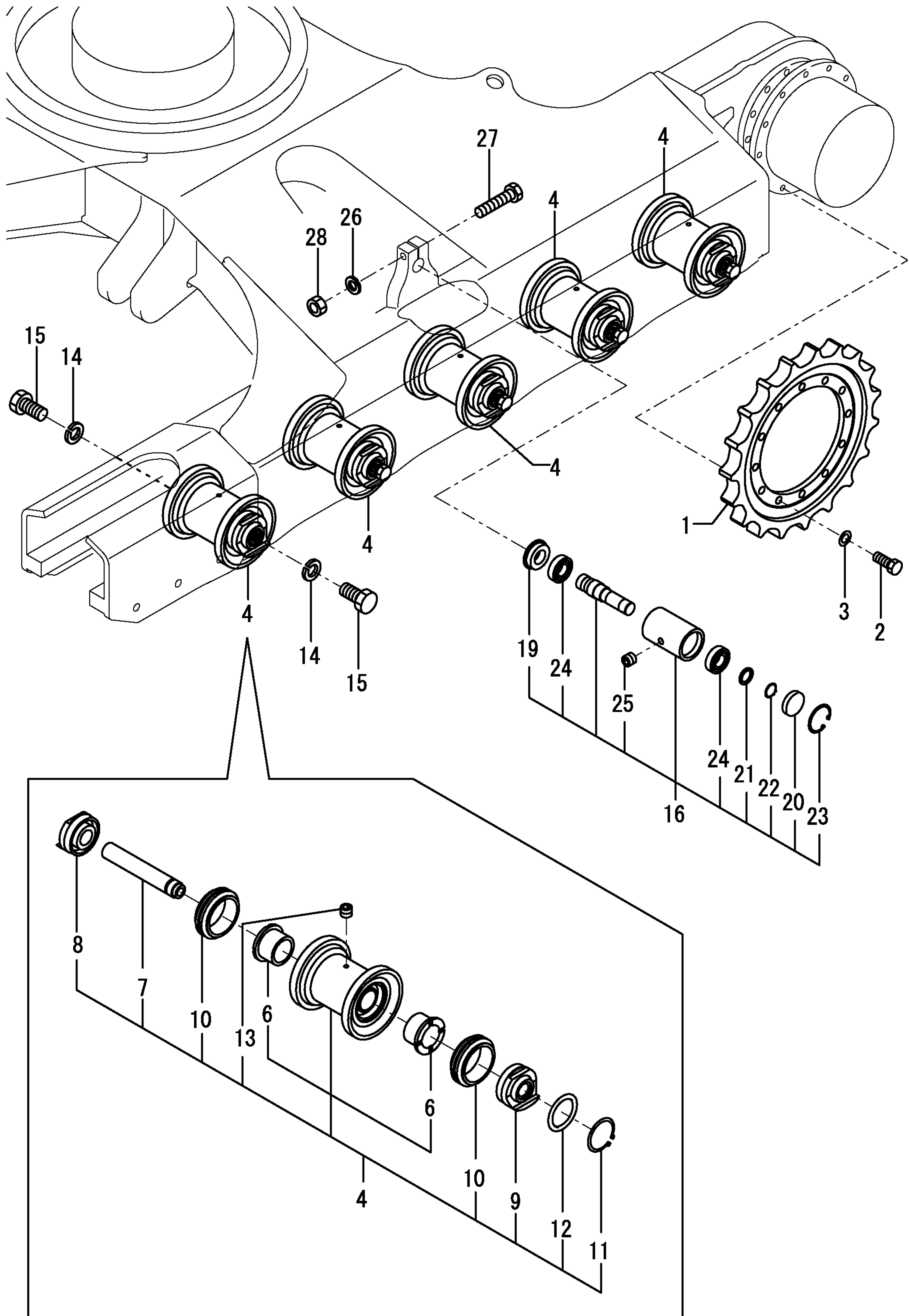


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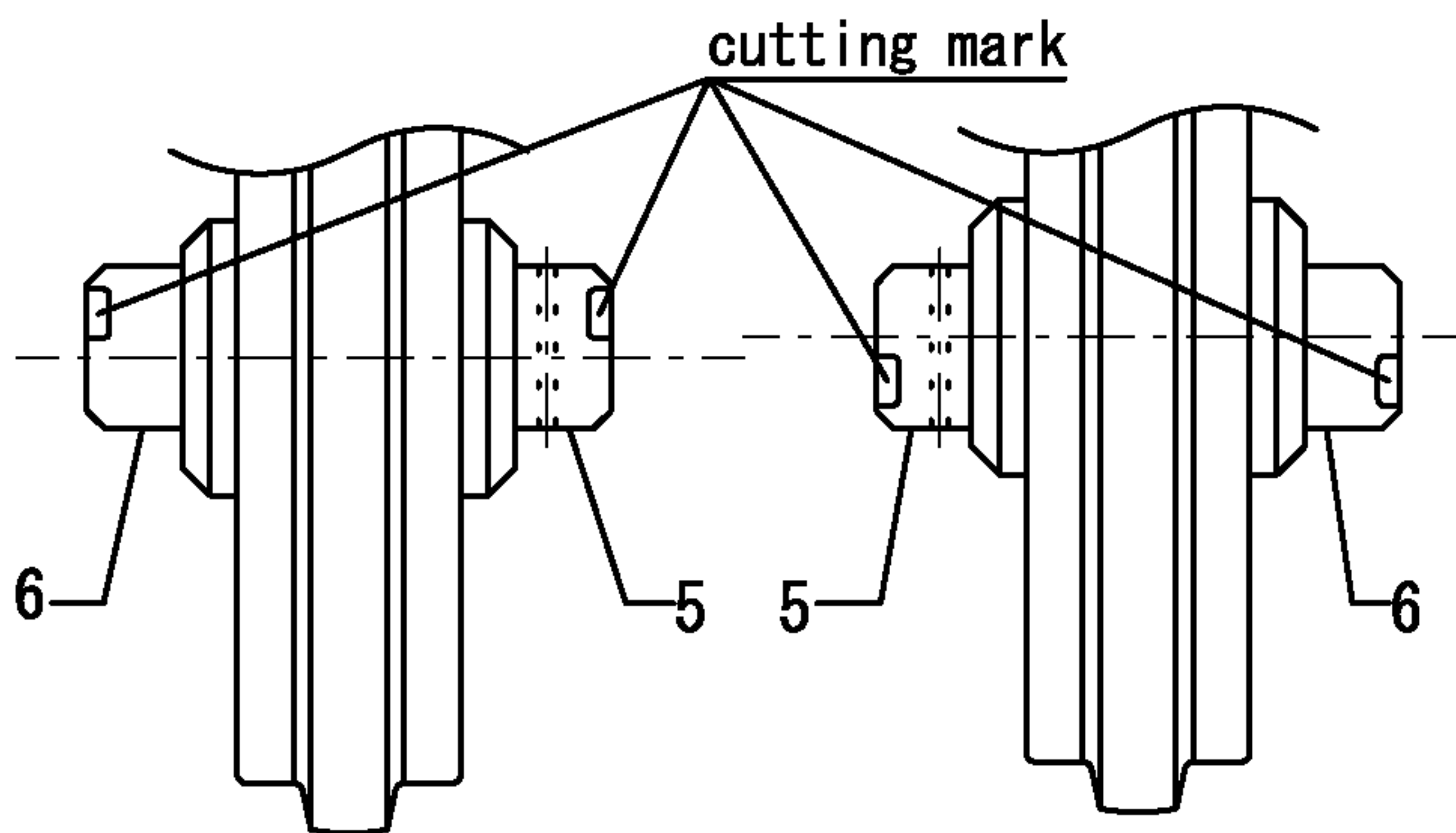


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14,1,,172187-37700-2,, "ADJUST, CRAWLER (82)",2,,,,,
15,1,,172478-37710,, "RING 55, BACKUP",2,,,,,
16,1,,172162-37770,, "TUBE COMP., ADJUSTER",2,,,,,
17,1,,172162-37800,, PISTON,2,,,,,
18,1,,172162-37810,, "PLATE, ADJUSTER",2,,,,,
19,1,,172122-37844,, "VALVE ASSY, NIPPLE",2,,,,,
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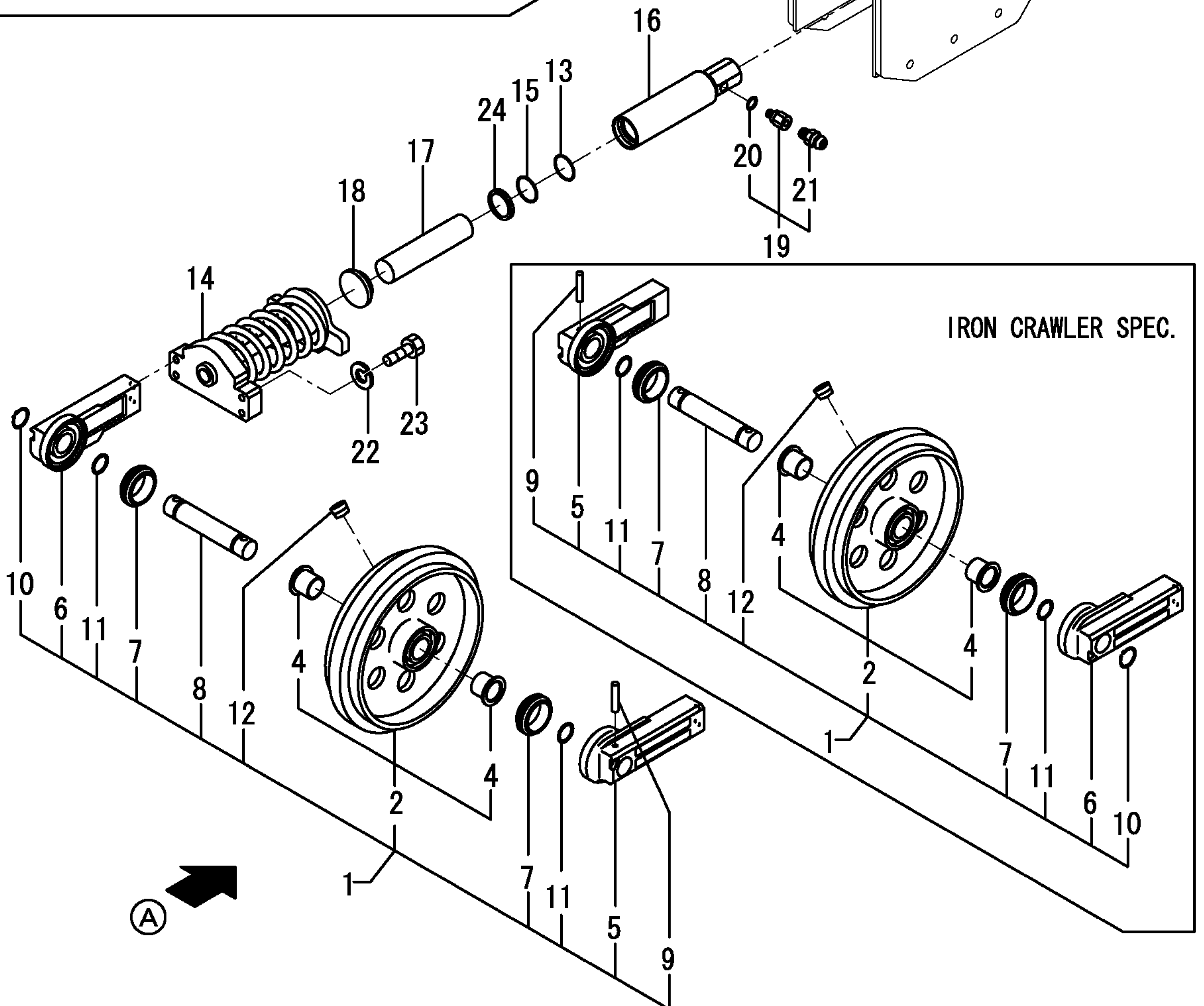
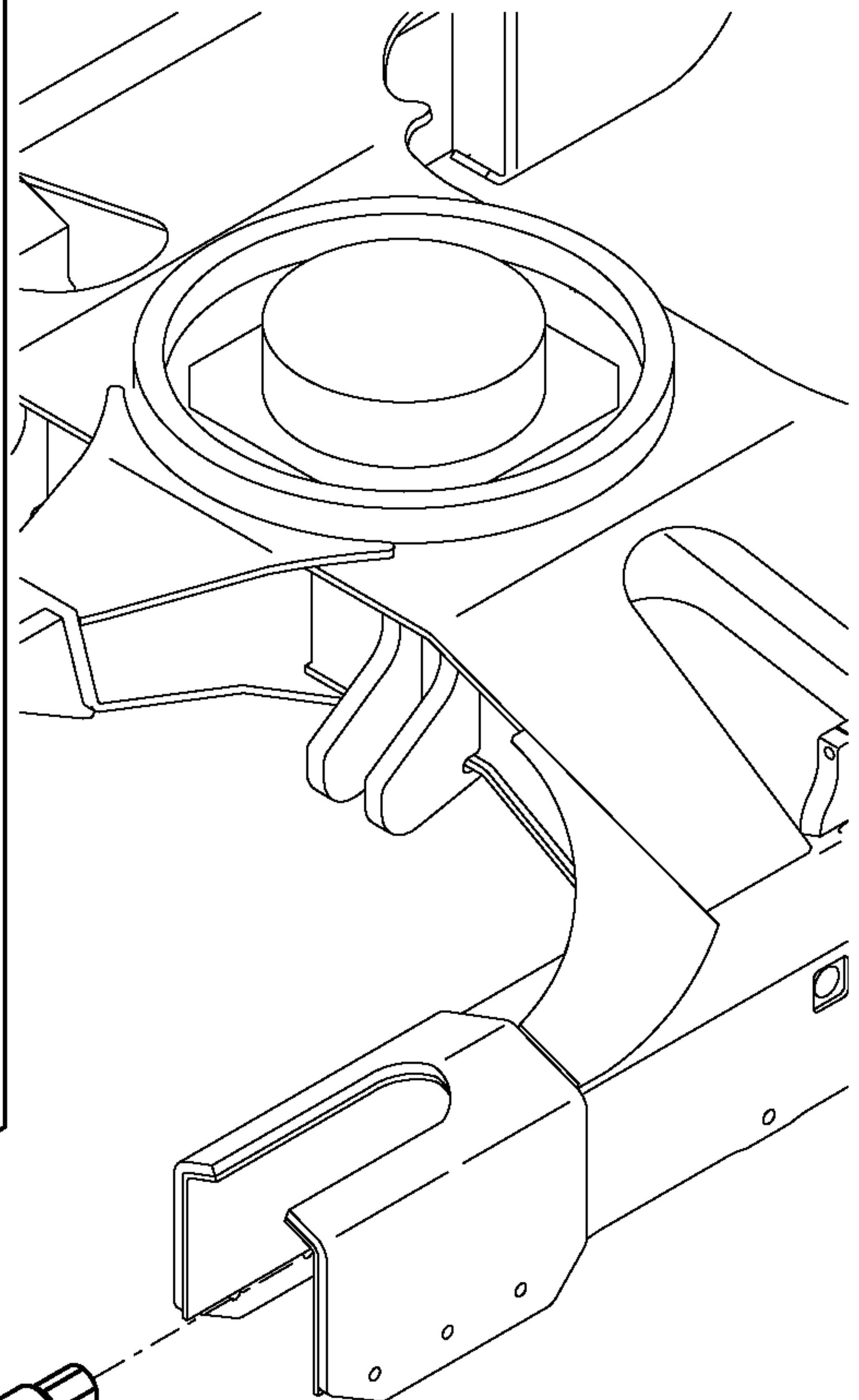
When constructing Idler Assy, The direction of cutting mark of idler seal cover A & B is the opposite side concerning rubber crawler & iron crawler.



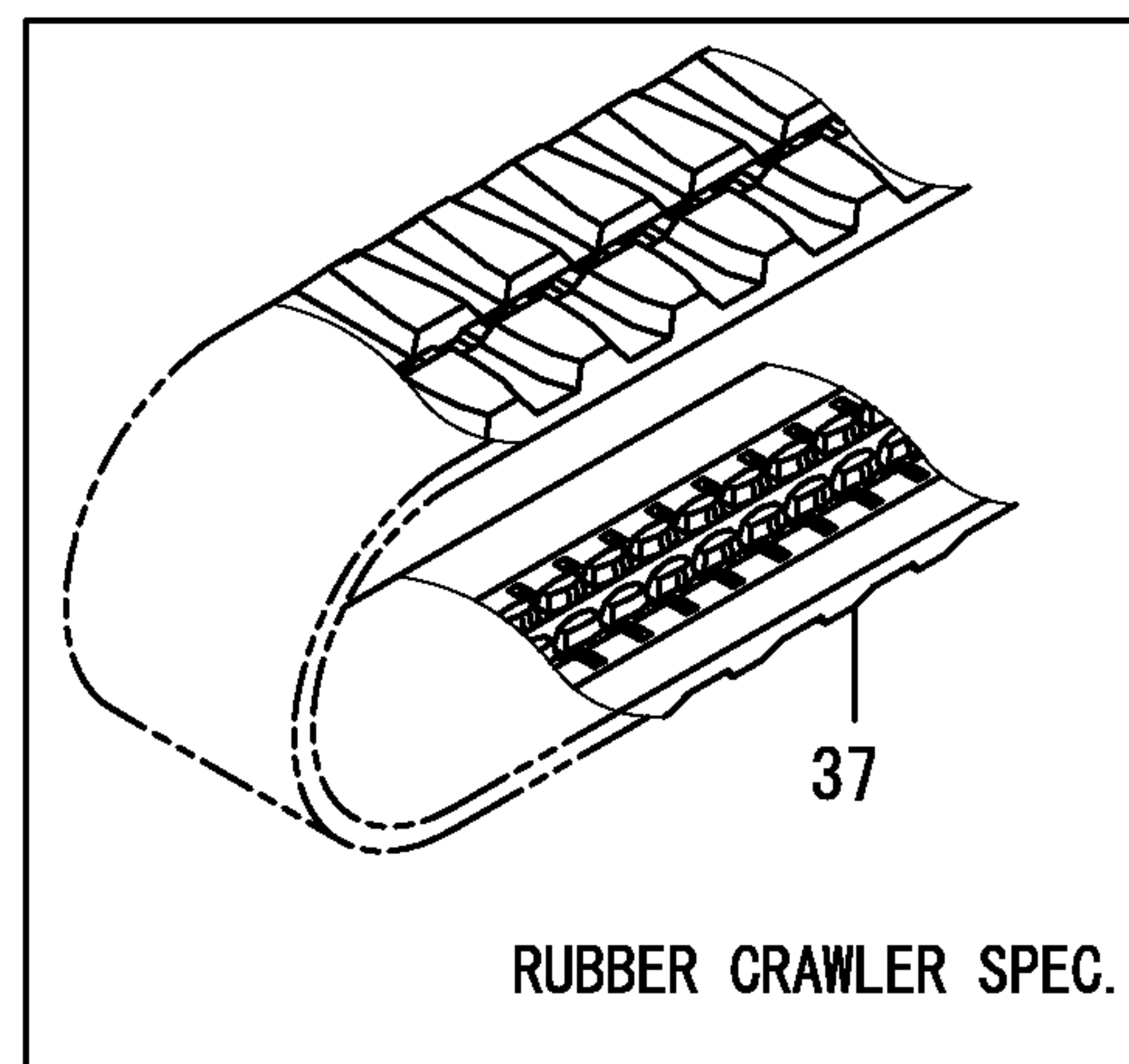
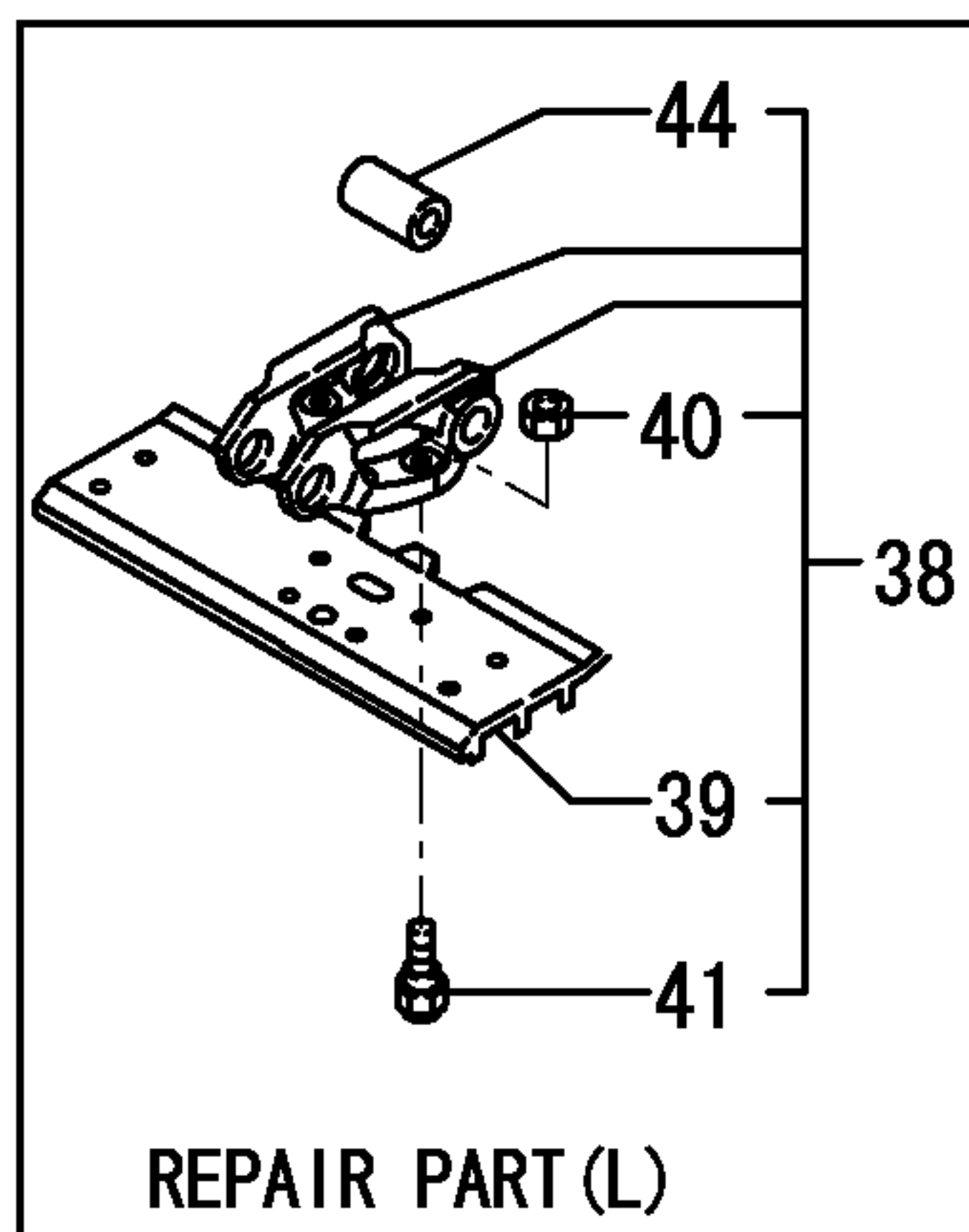
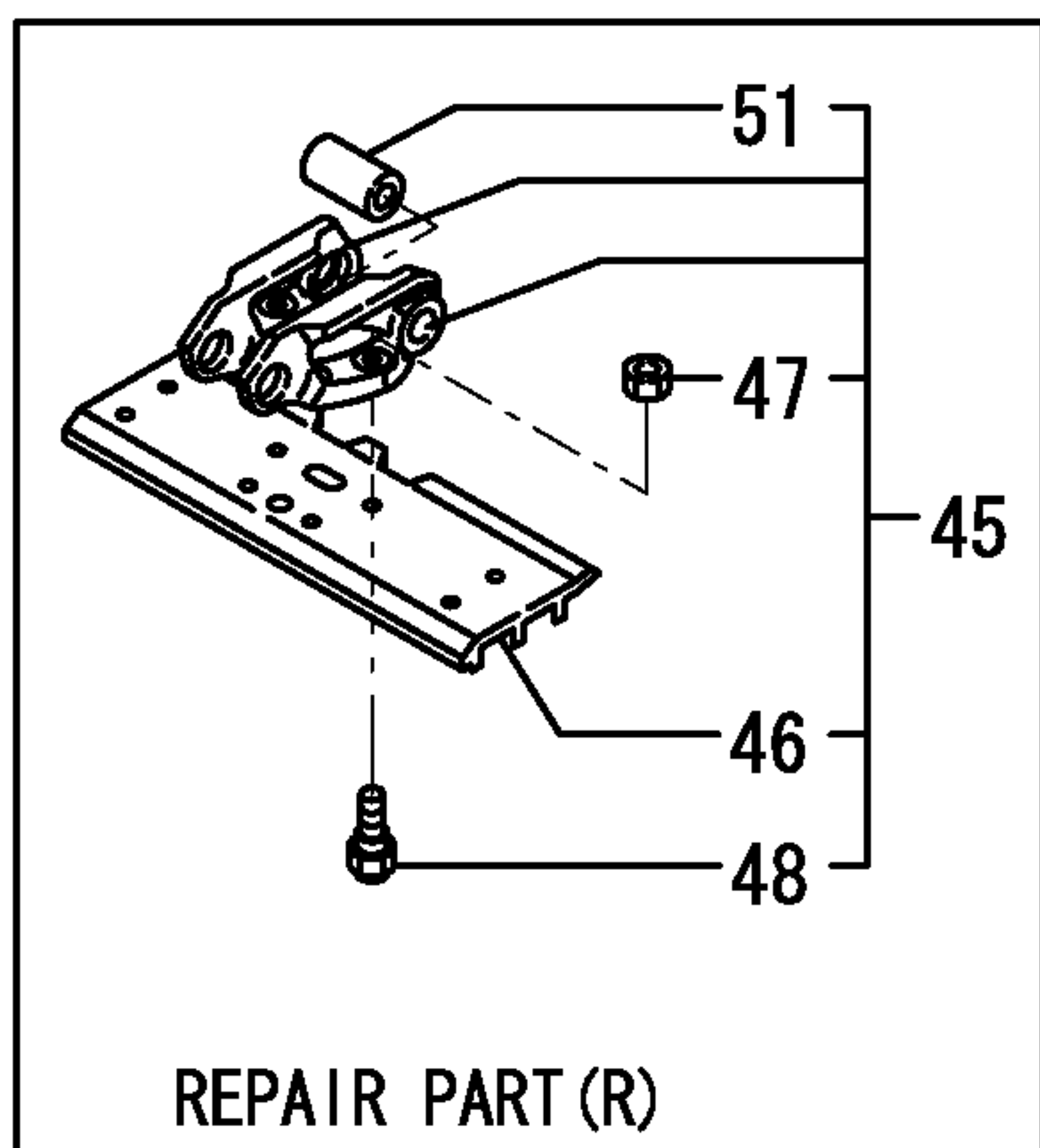
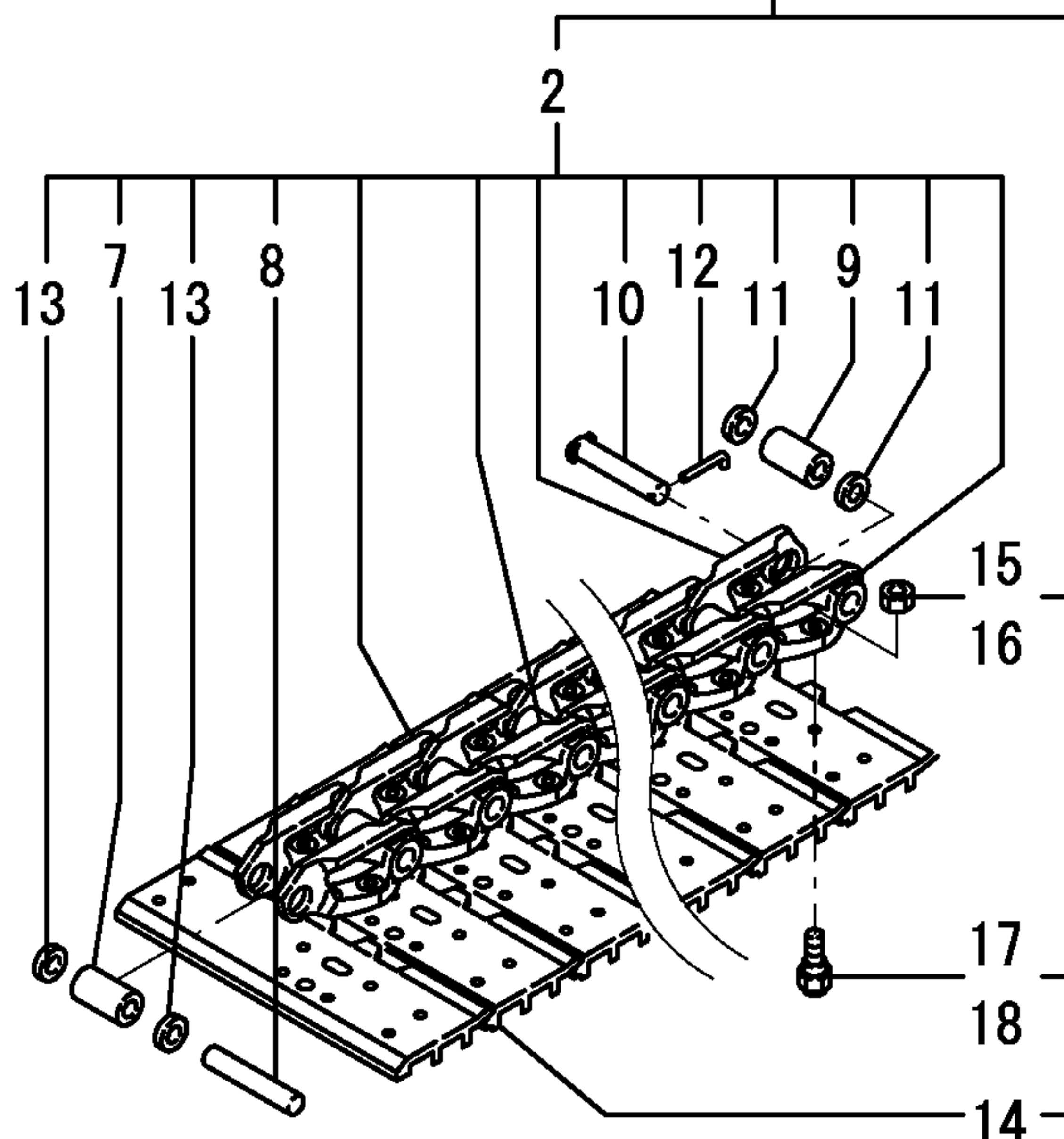
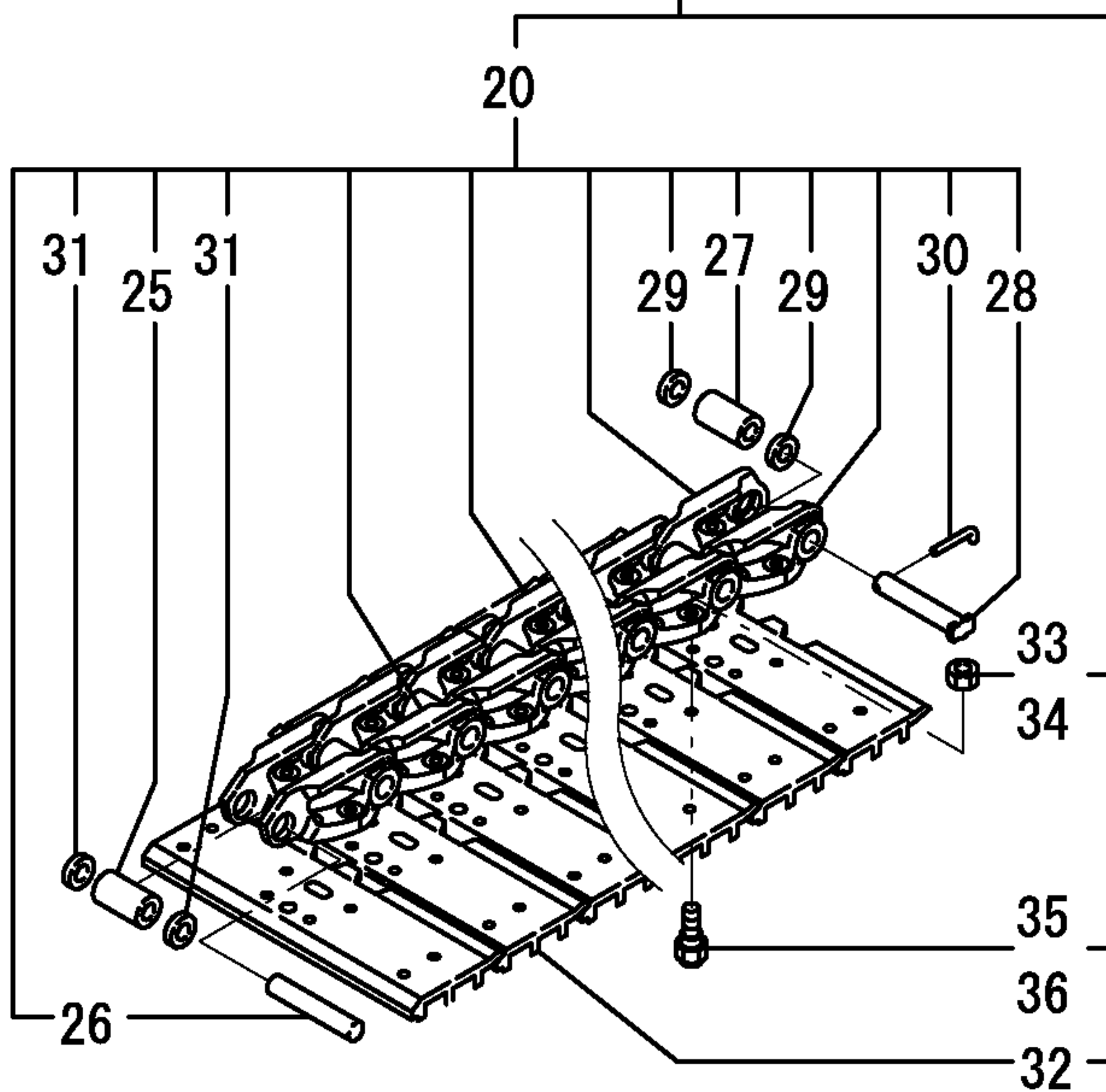
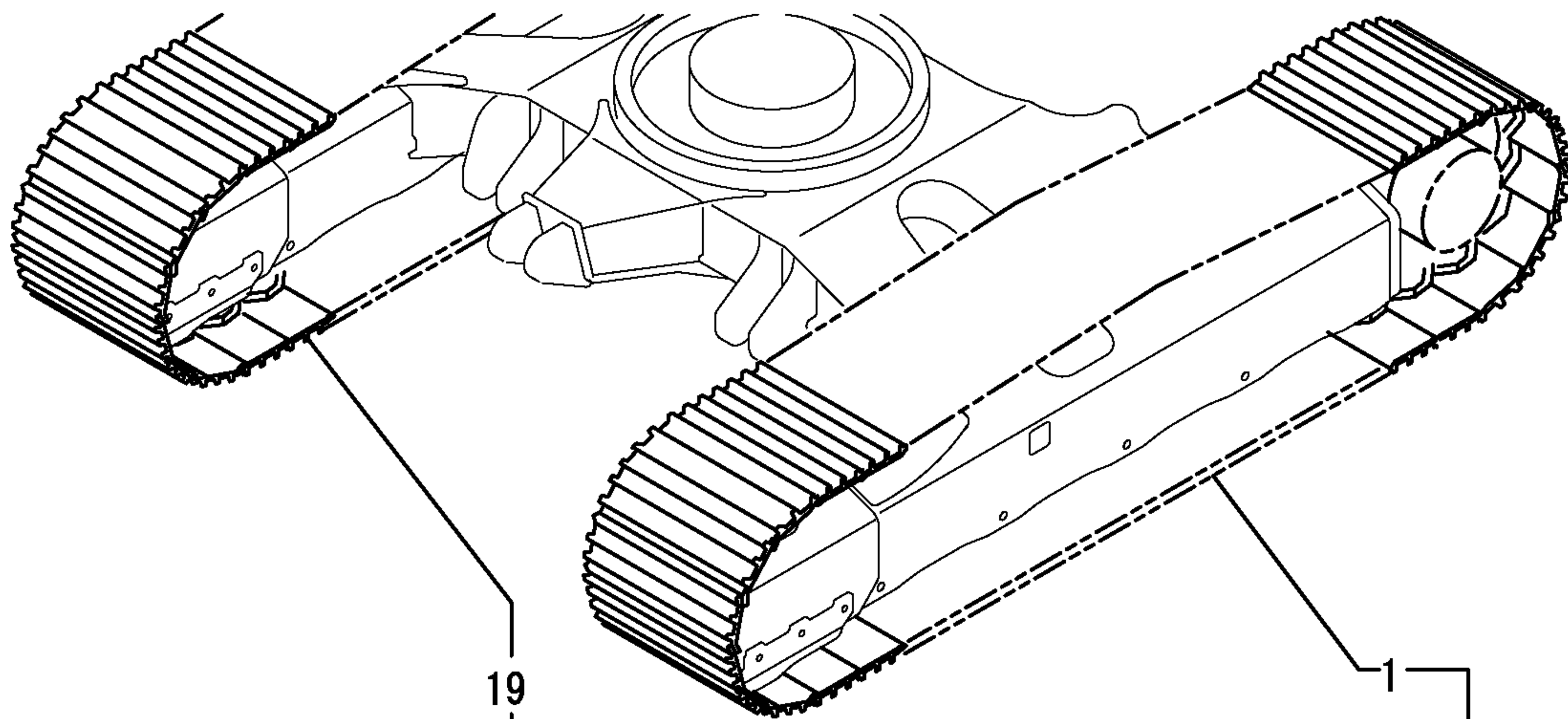
RUBBER CRAWLER SPEC.

IRON CRAWLER SPEC.

VIEWED FROM (A)

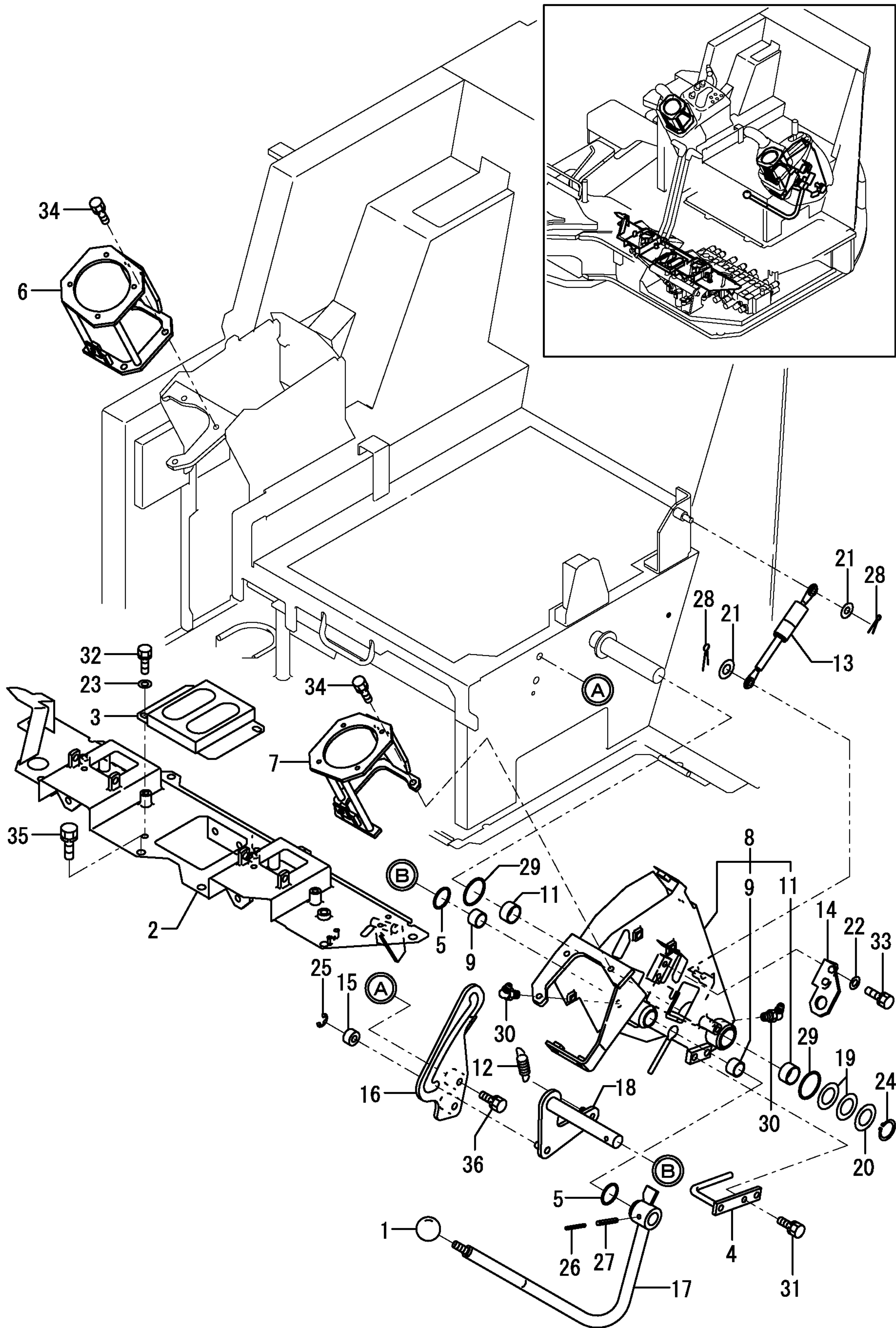


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8,3,,172455-38230,, "PIN, TRACK",38,,,,,,,,,,,,,
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12,3,,172455-38270,, "COTTER PIN",1,,,,,,,,,,,,,
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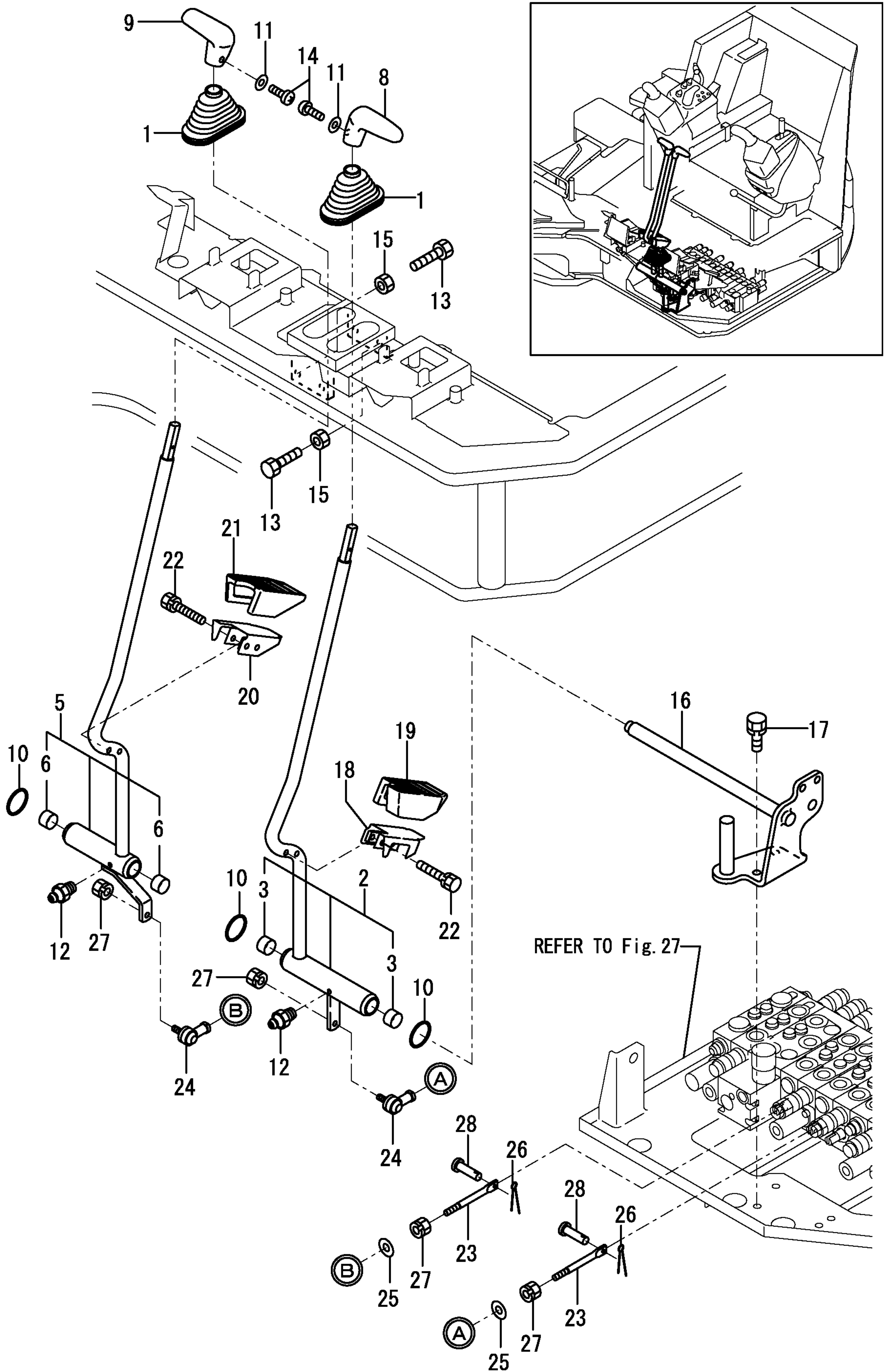


∴.MARKED PART HAS BEEN CHANGED (ADDED) .

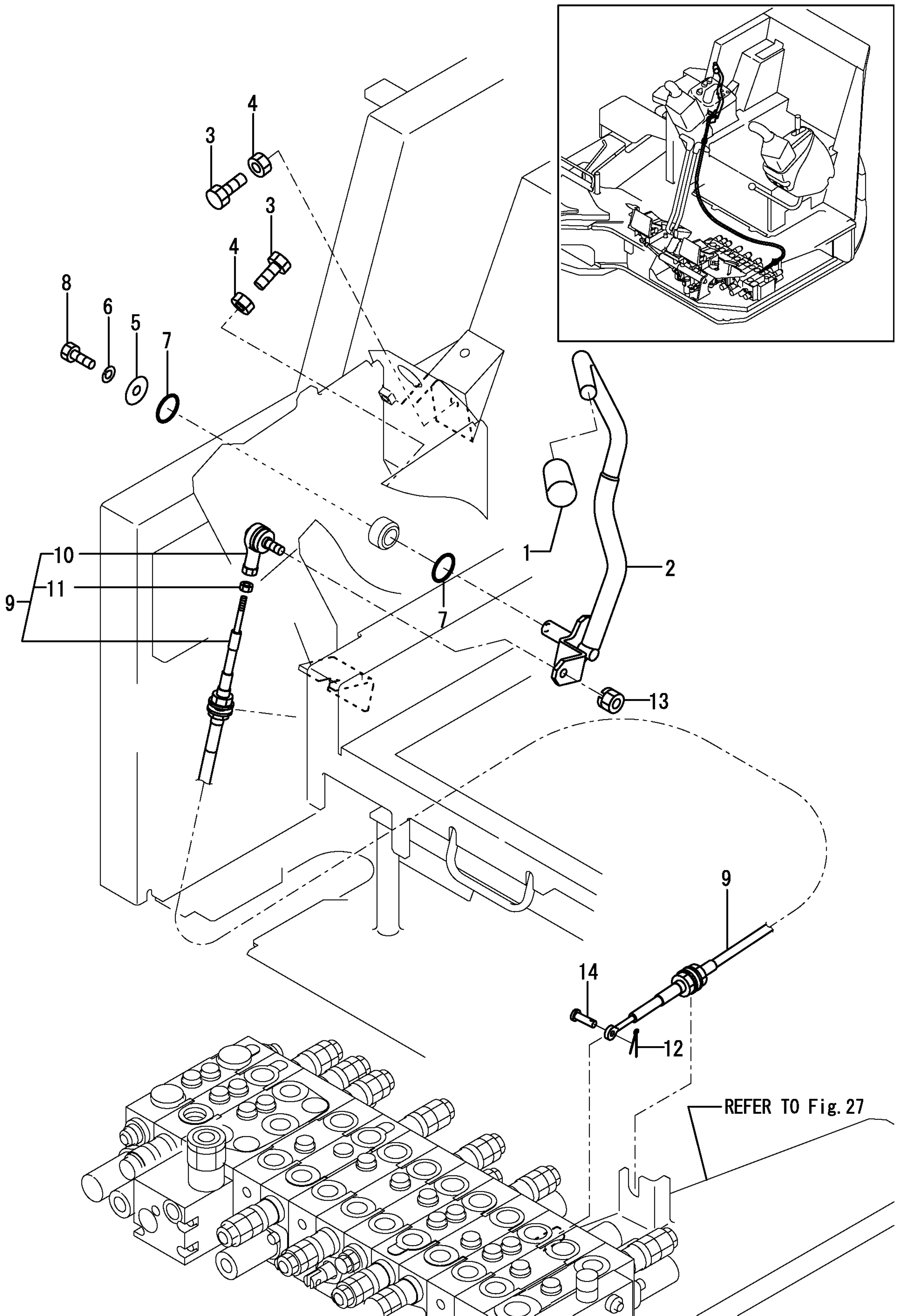
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3,1,,172455-45520,, "BRACKET, BOOT (12)",1,,,,,,,,,,,,,,,,,,,,,
4,1,,172458-45850,, "GUIDE L, HOSE(GRAY:73",1,,,,,,,,,,,,,,,,,,,,,
5,1,,172124-46200,, "O-RING 27X5.7",2,,,,,,,,,,,,,,,,,,,,,
6,1,,172472-46210,, "BRACKET ASSY, R (73)",1,,,,,,,,,,,,,,,,,,,,,
7,1,,172472-46220,, "BRACKET ASSY, L (73)",1,,,,,,,,,,,,,,,,,,,,,
8,1,,172472-46600,, "LEVER STAND L (73)",1,,,,,,,,,,,,,,,,,,,,,
9,2,,172141-41370,, "BUSH 2015",2,,,,,,,,,,,,,,,,,,,,,
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18,1,,172458-47640-4,, "ROD, SPRING (GRAY:72)",1,,,,,,,,,,,,,,,,,,,,,
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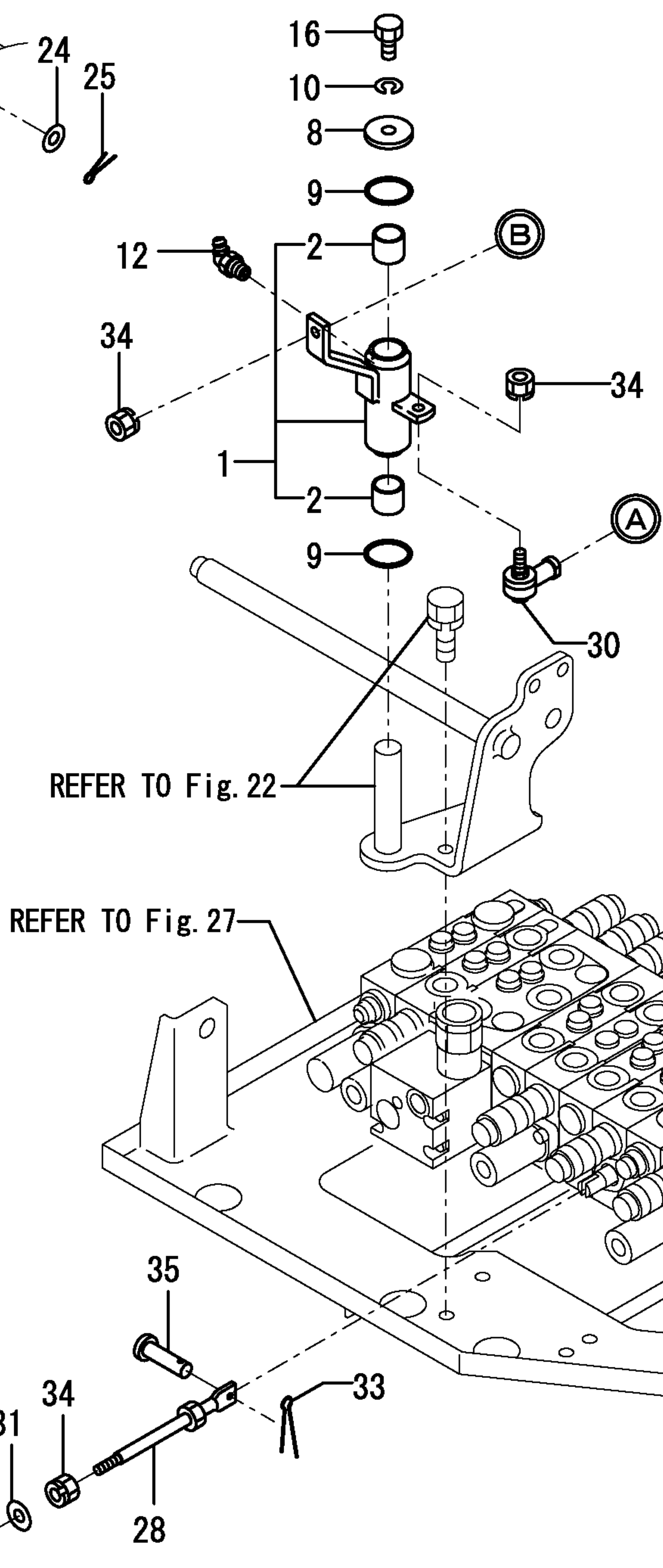
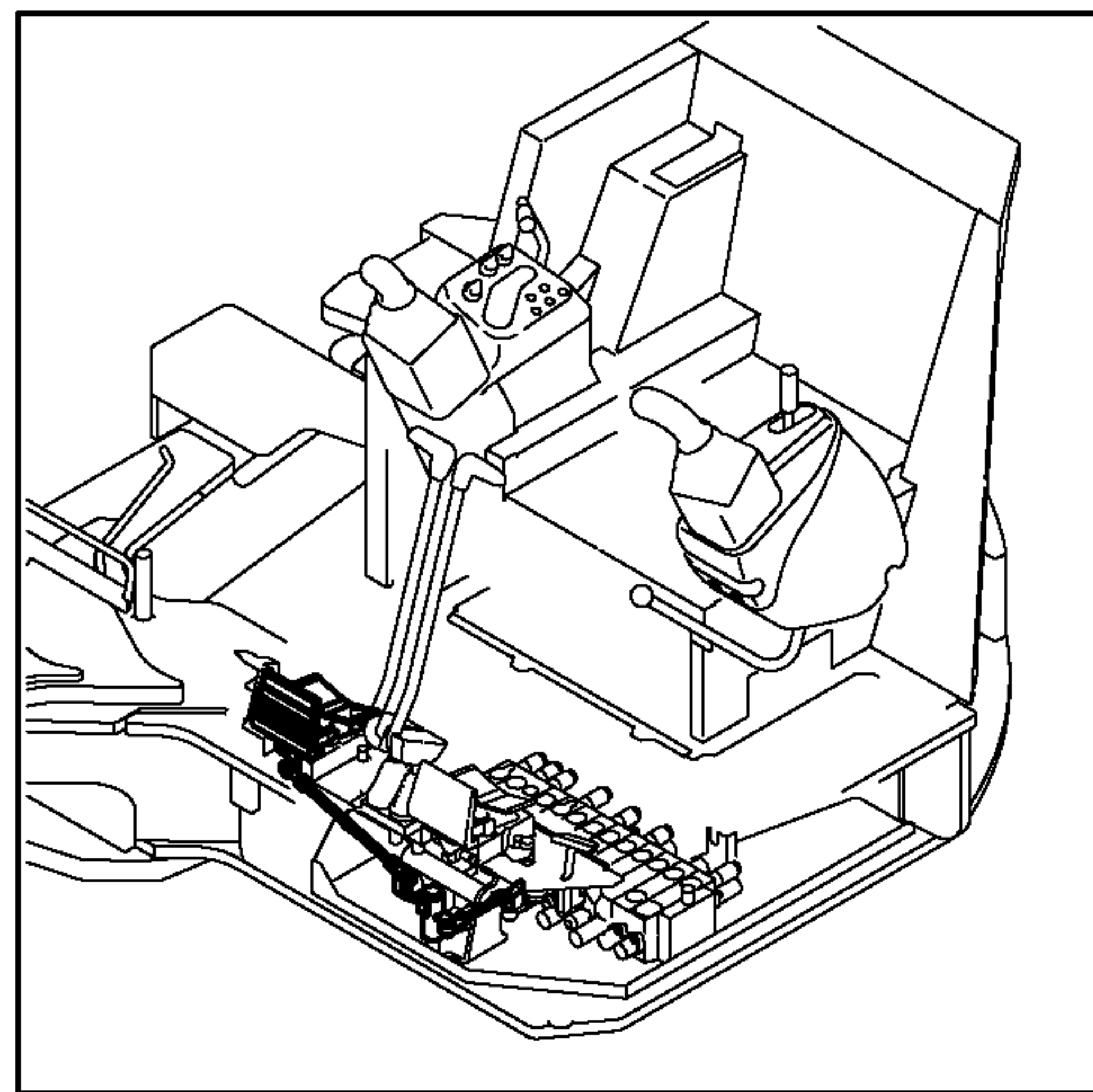
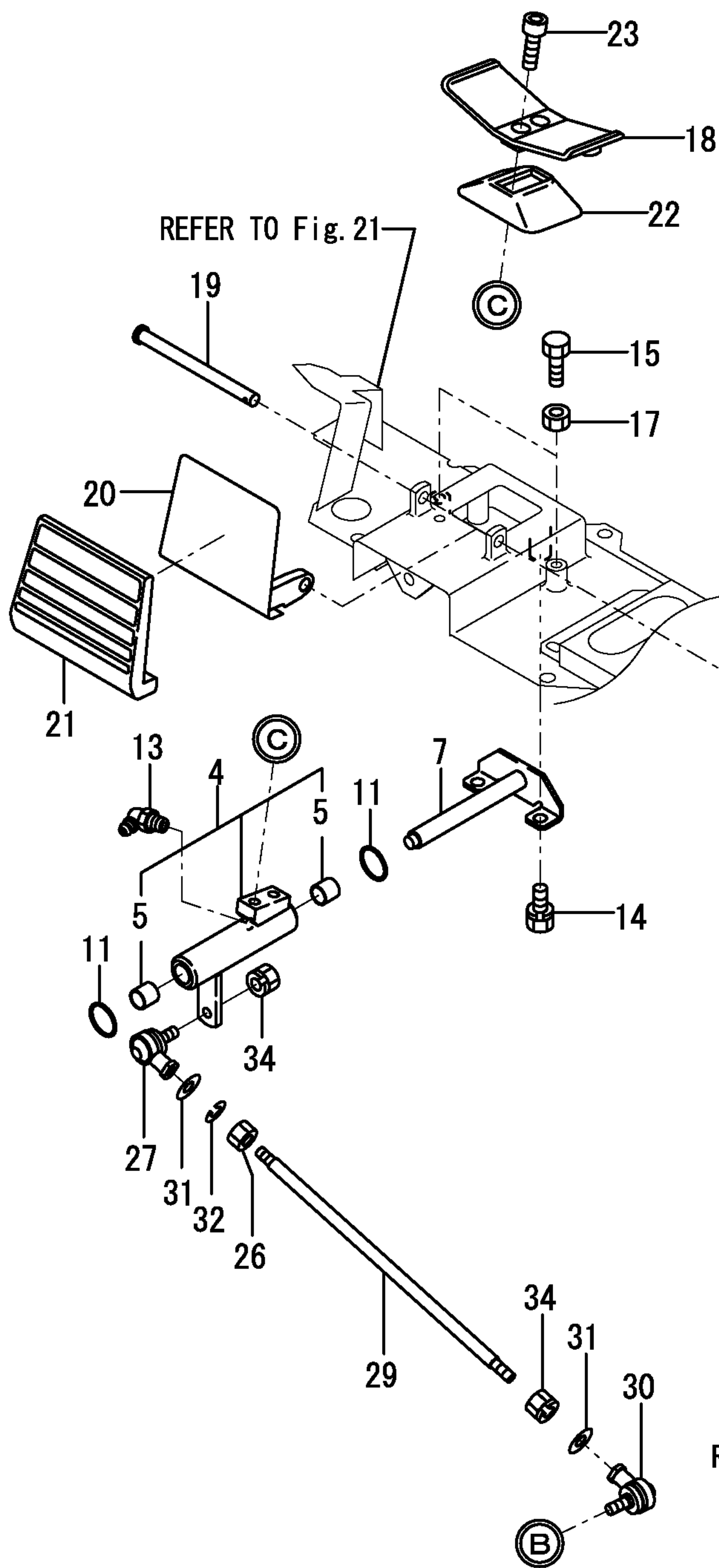
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8,1,,172187-45870,, "GRIP L, DRIVE",1,,,,,,,,,,,,,,,,,
9,1,,172187-45880,, "GRIP R, DRIVE",1,,,,,,,,,,,,,,,,,
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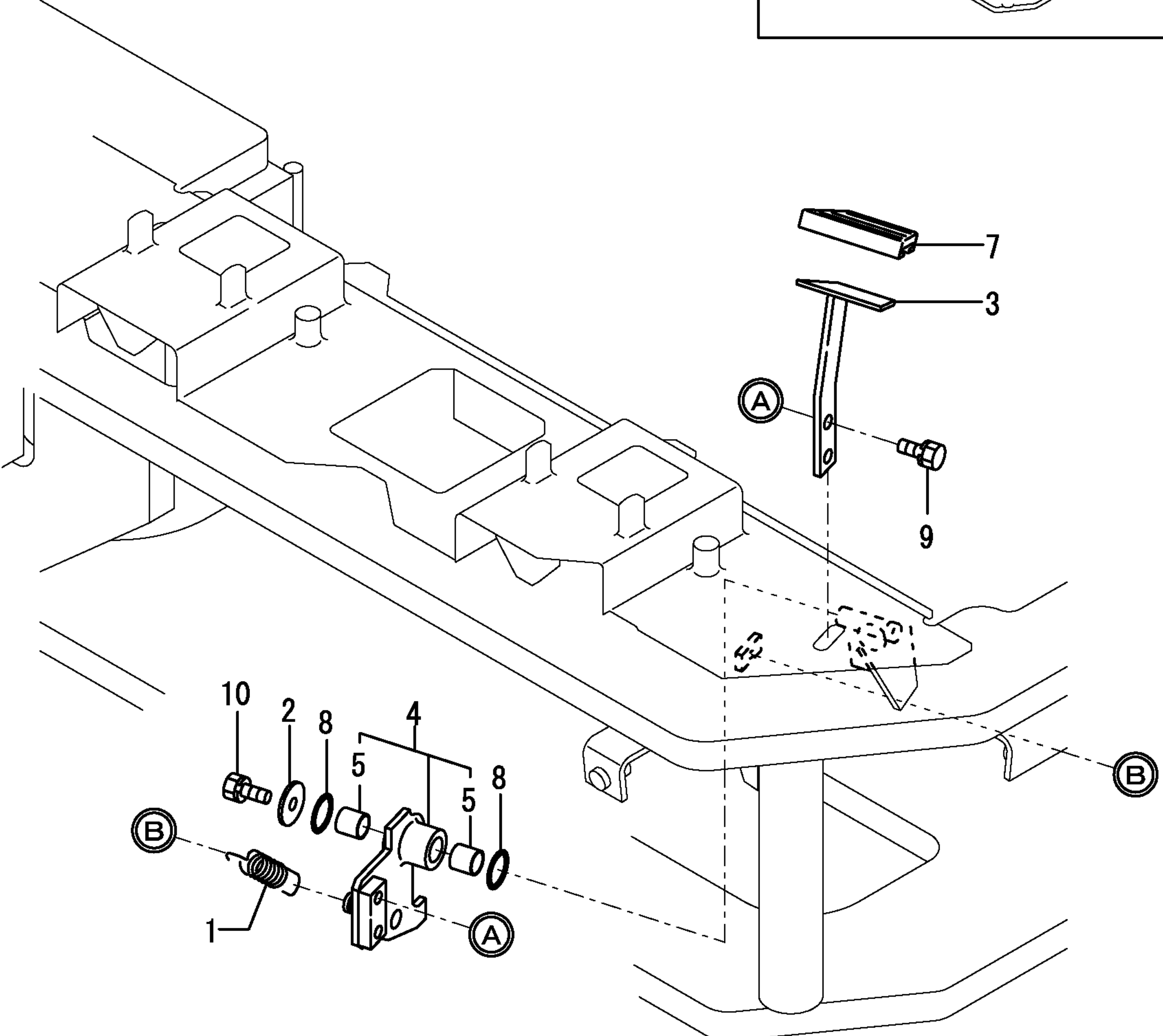
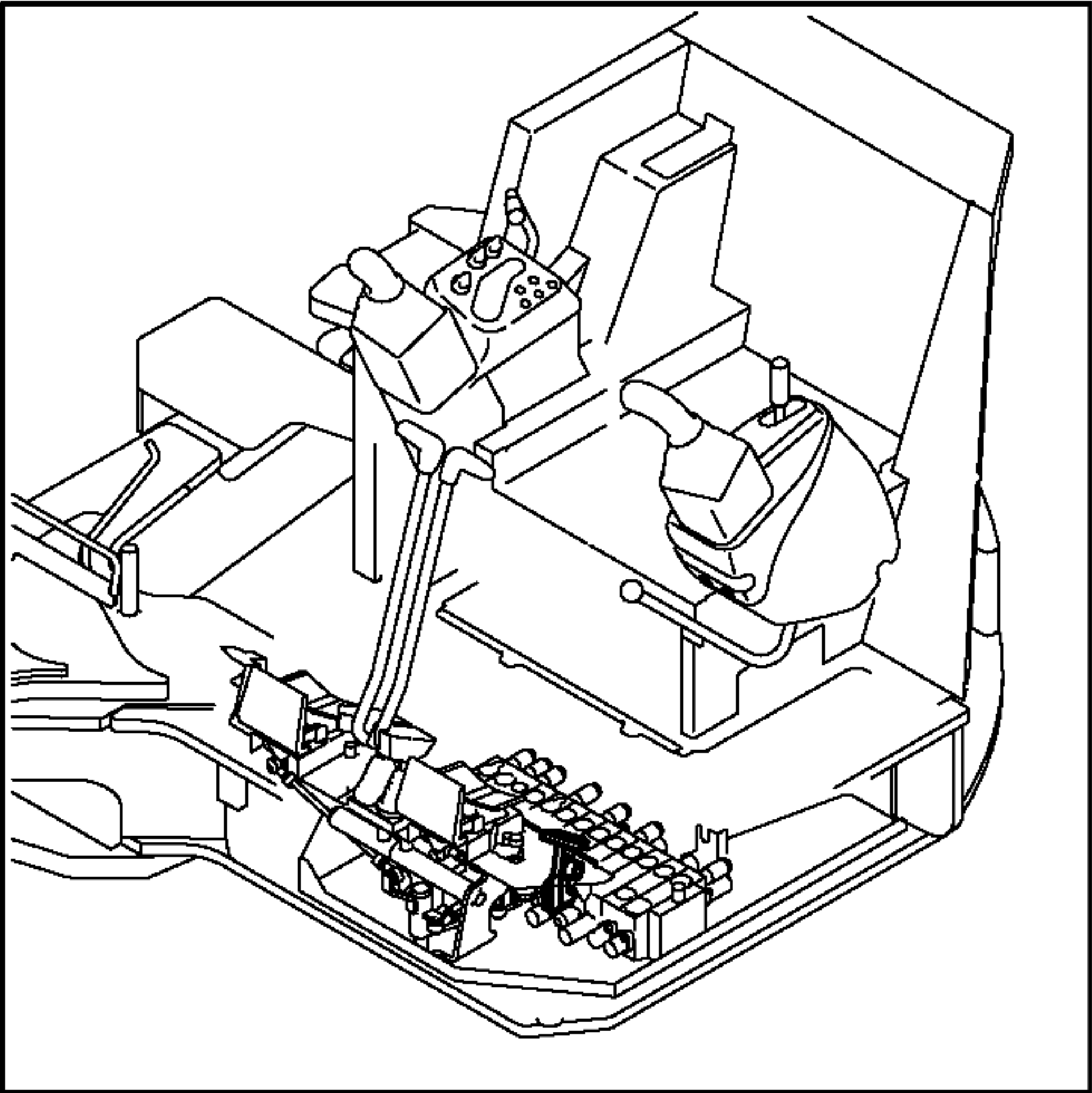
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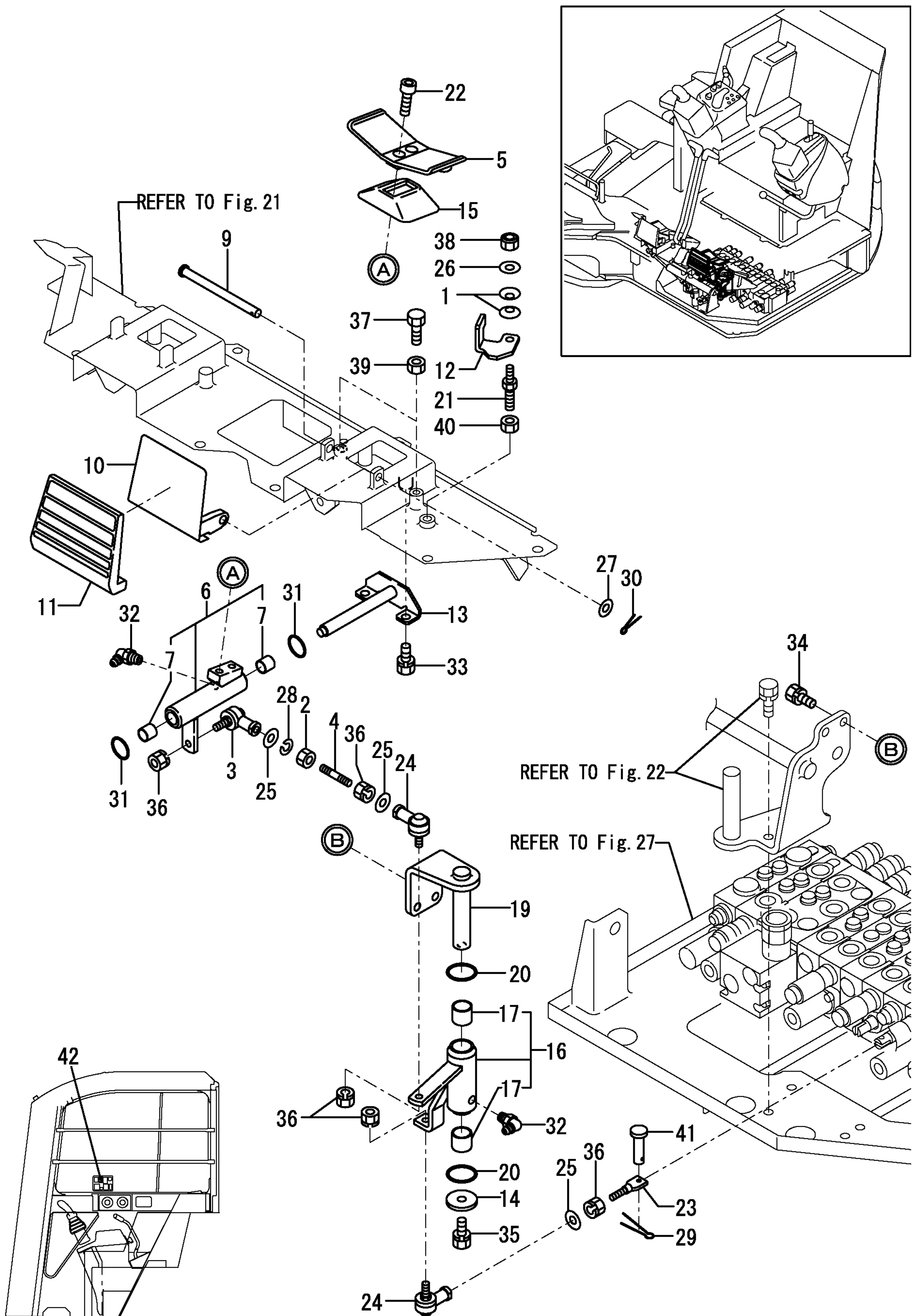
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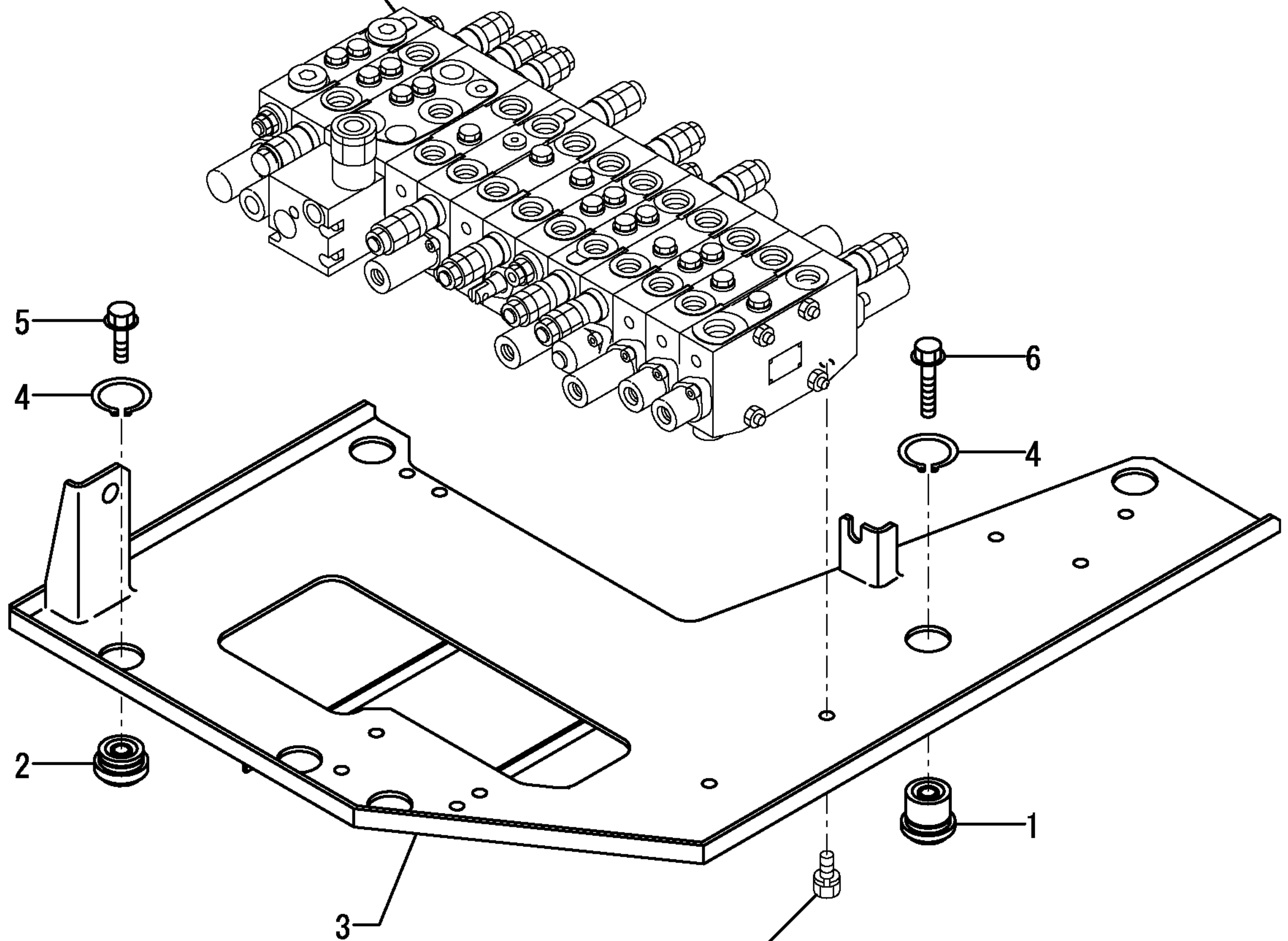


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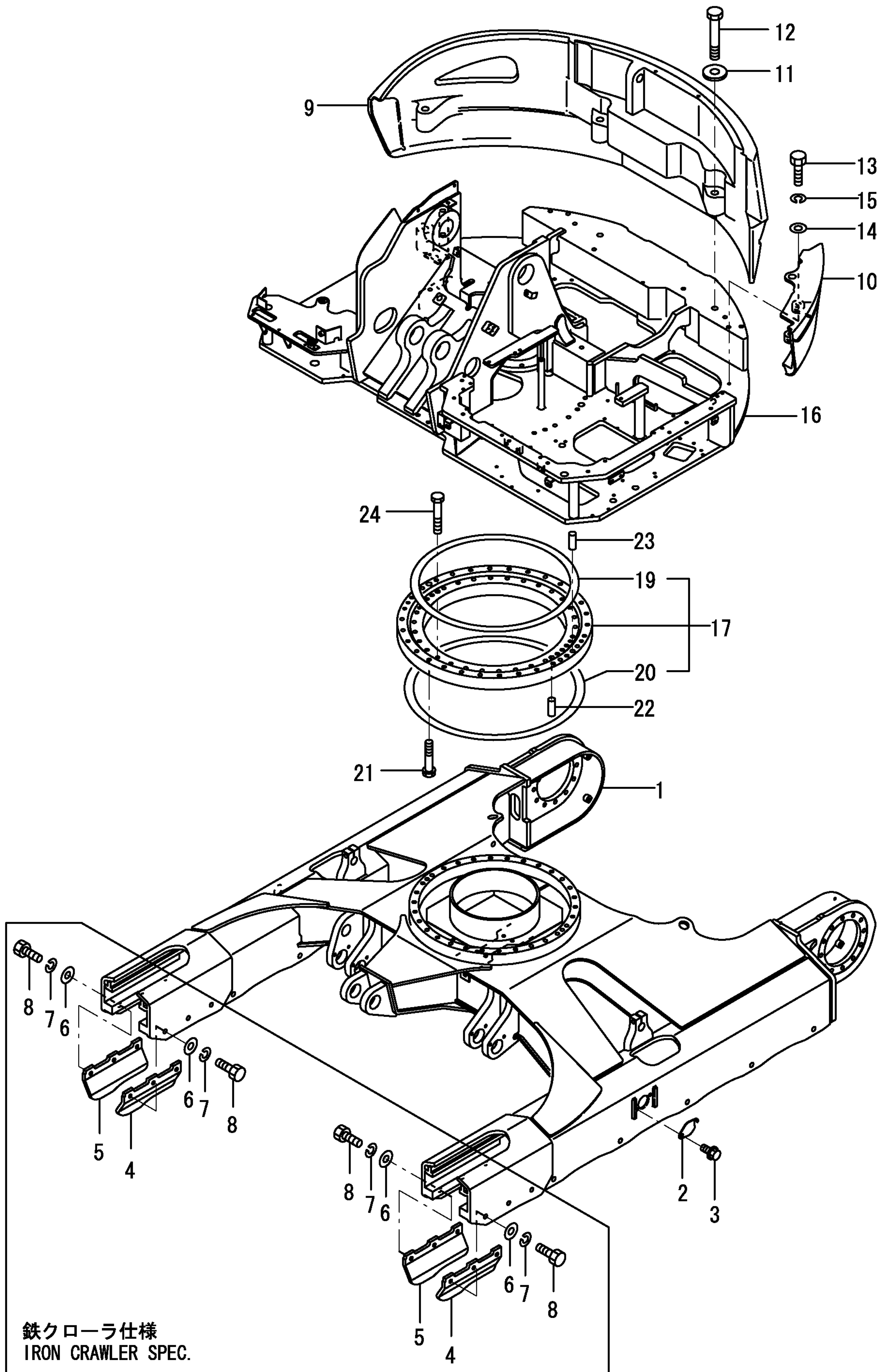
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REFER TO Fig. 49~55

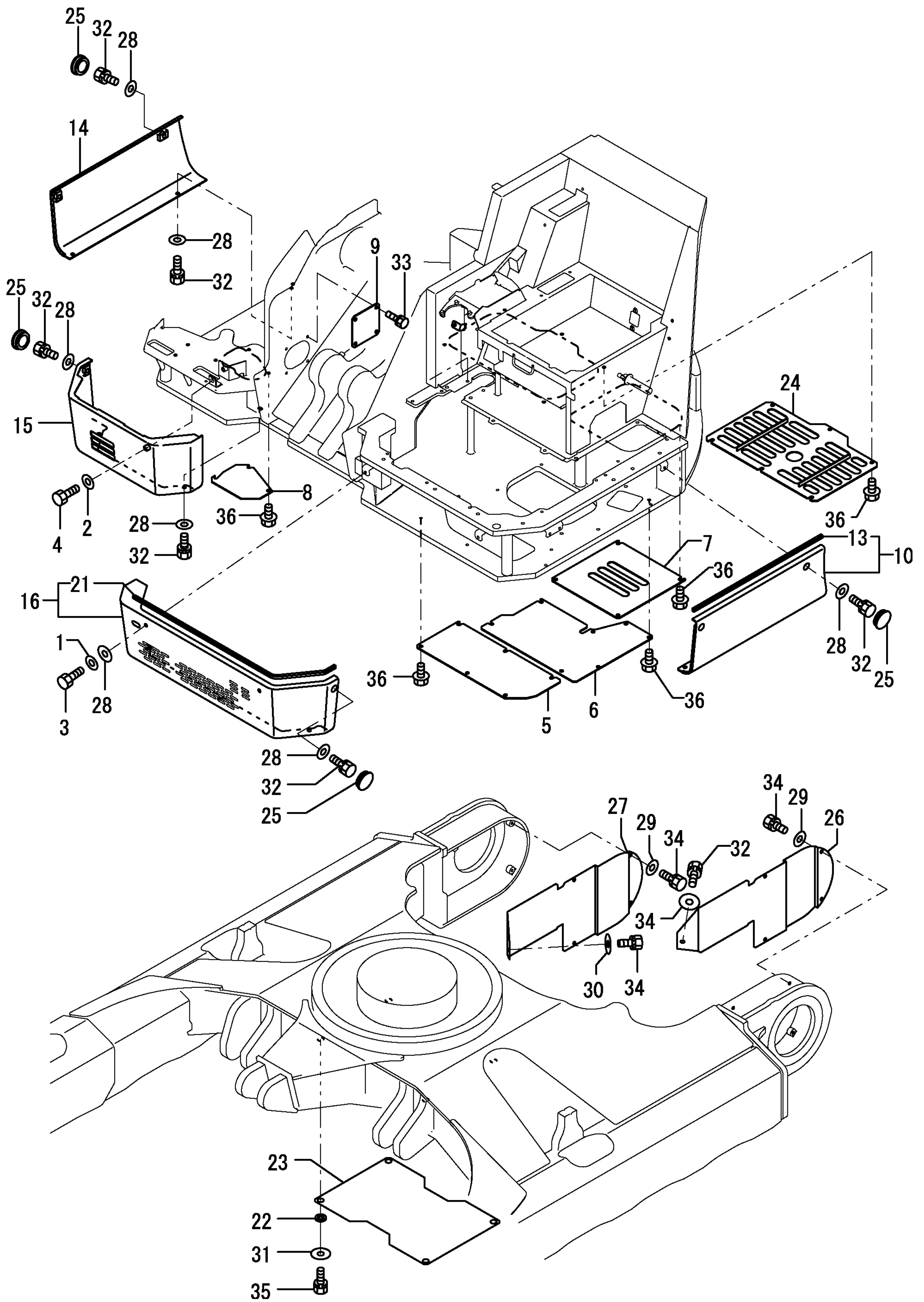


REFER TO Fig. 49

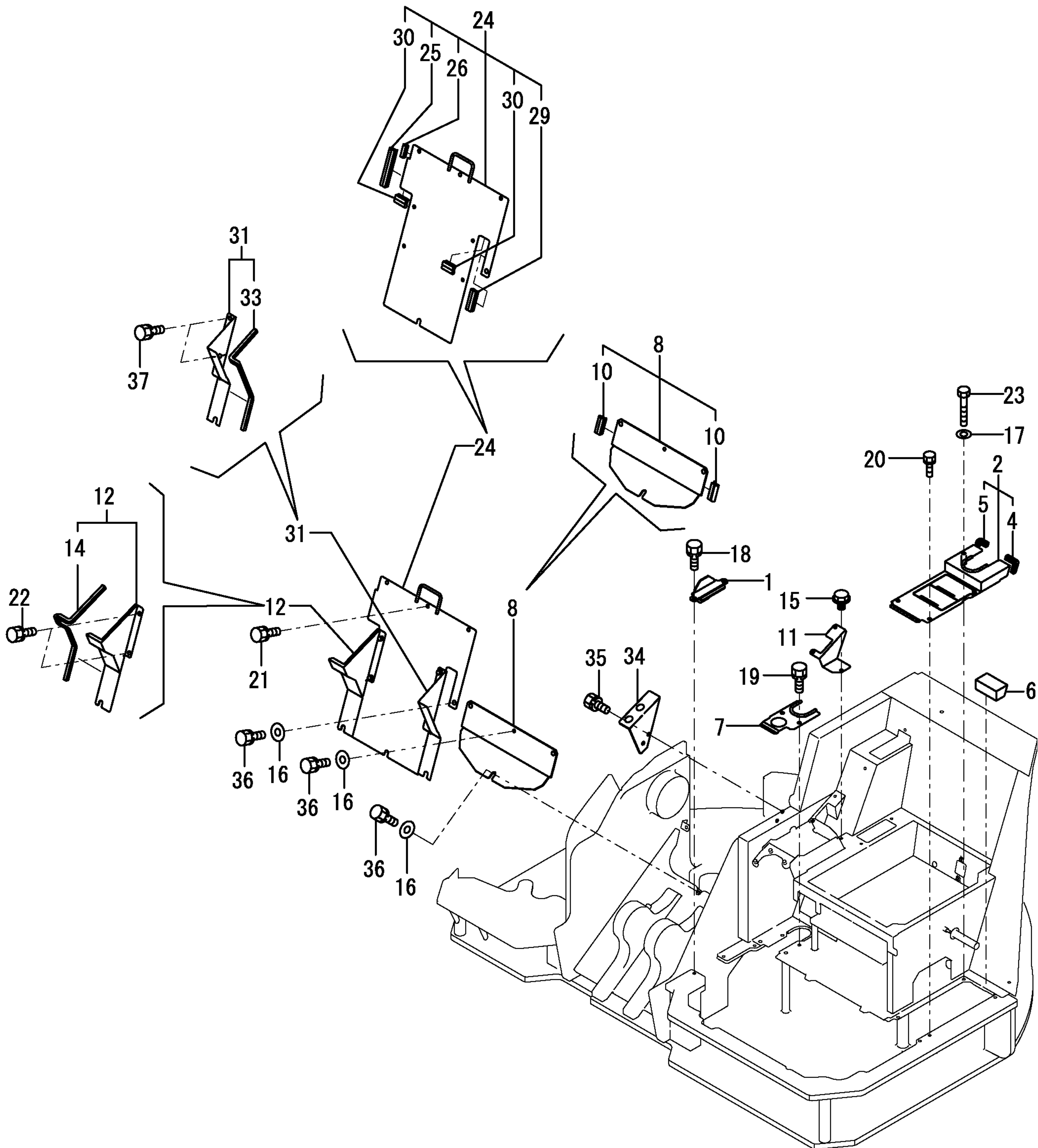
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3,1,,26106-100122,, "BOLT M10X 12 PLATED",4,,,,,,,,,,,,,
4,1,,172187-50801-1,, "PLATE L, GUARD (82)",2,,,,,1,,,,,,,,,
5,1,,172187-50811-1,, "PLATE R, GUARD (82)",2,,,,,1,,,,,,,,,
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7,1,,22217-160000,, "SPRING WASHER 16",12,,,,,1,,,,,,,,,
8,1,,26116-160402,, "BOLT M16X 40 PLATED",12,,,,,1,,,,,,,,,
9,1,,172455-53301-1,, "WEIGHT,COUNTER (82)",1,,,,,,,,,,,,,
10,1,,172455-53310-1,, "WEIGHT SIDE L (82)",1,,,,,,,,,,,,,
11,1,,172187-53320,, "WASHER 24.5X65X8",3,,,,,,,,,,,,,
12,1,,172455-53330,, "BOLT 24X140",3,,,,,,,,,,,,,
13,1,,172165-53480,, "BOLT M16X 60",2,,,,,,,,,,,,,
14,1,,172165-53500,, WASHER,2,,,,,,,,,,,,,
15,1,,22217-160000,, "SPRING WASHER 16",2,,,,,,,,,,,,,
16,1,,172455-54101,, "FRAME , TURNING (82)",1,,,,,,,,,,,,,
17,1,,172187-57600,, "TURNING BEARING",1,,,,,,,,,,,,,
19,2,,172187-57630,, "SEAL, UPPER",1,,,,,,,,,,,,,
20,2,,172187-57640,, "SEAL, LOWER",1,,,,,,,,,,,,,
21,1,,172455-57650,, "BOLT 16X90",30,,,,,,,,,,,,,
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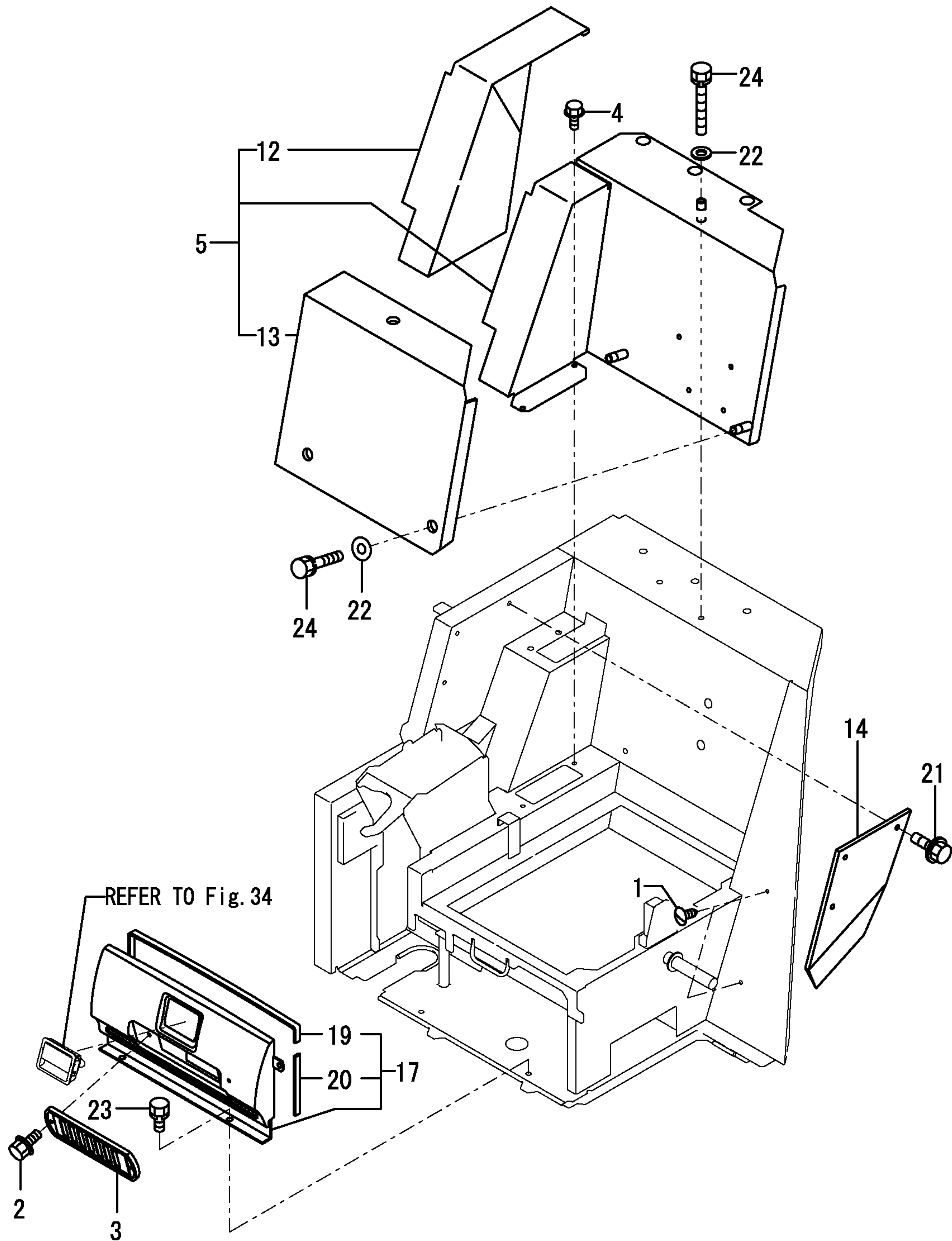
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6,1,,172478-61111-6,, "COVER B, UNDER (82)",1,,,,,,,,,,,,,,,,,,,,,
7,1,,172455-61120-1,, "COVER, UNDER C (82)",1,,,,,,,,,,,,,,,,,,,,,
8,1,,172455-61130-1,, "COVER, UNDER D (82)",1,,,,,,,,,,,,,,,,,,,,,
9,1,,172455-61180-1,, "PLATE (GREEN:82)",1,,,,,,,,,,,,,,,,,,,,,
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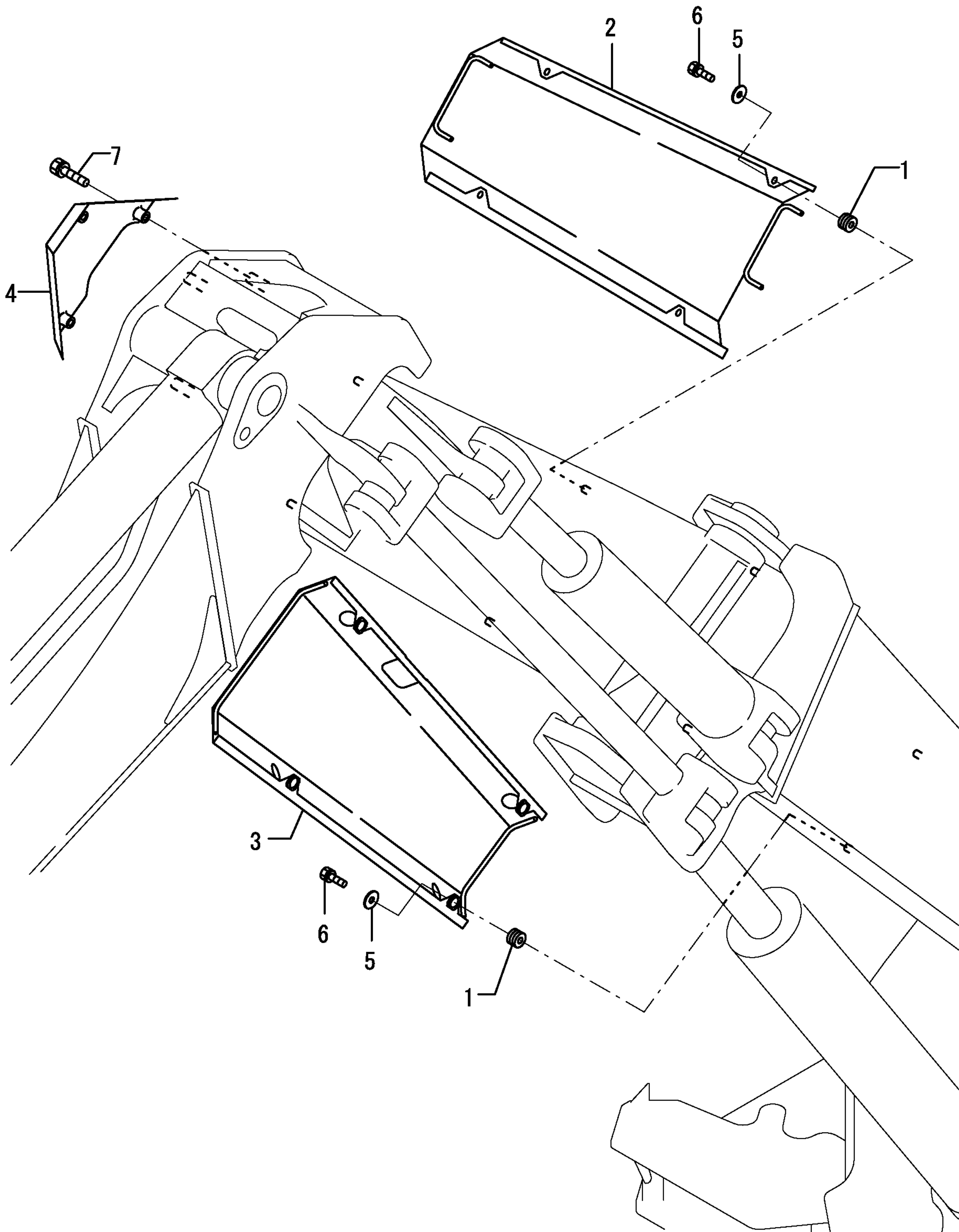
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6,1,,172478-61270,, "RUBBER, SPONGE",1,,,,,,,,,,,,,
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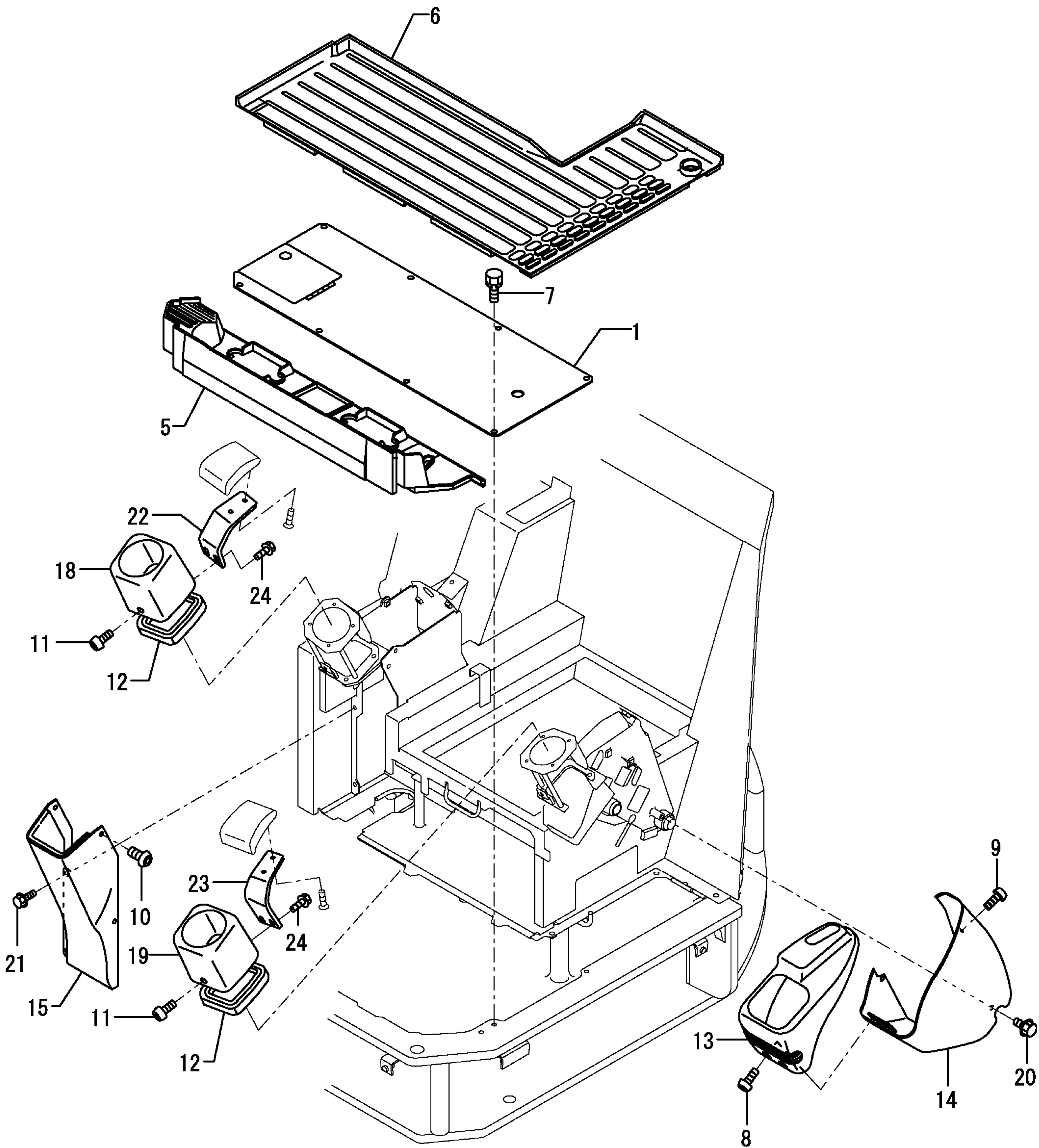
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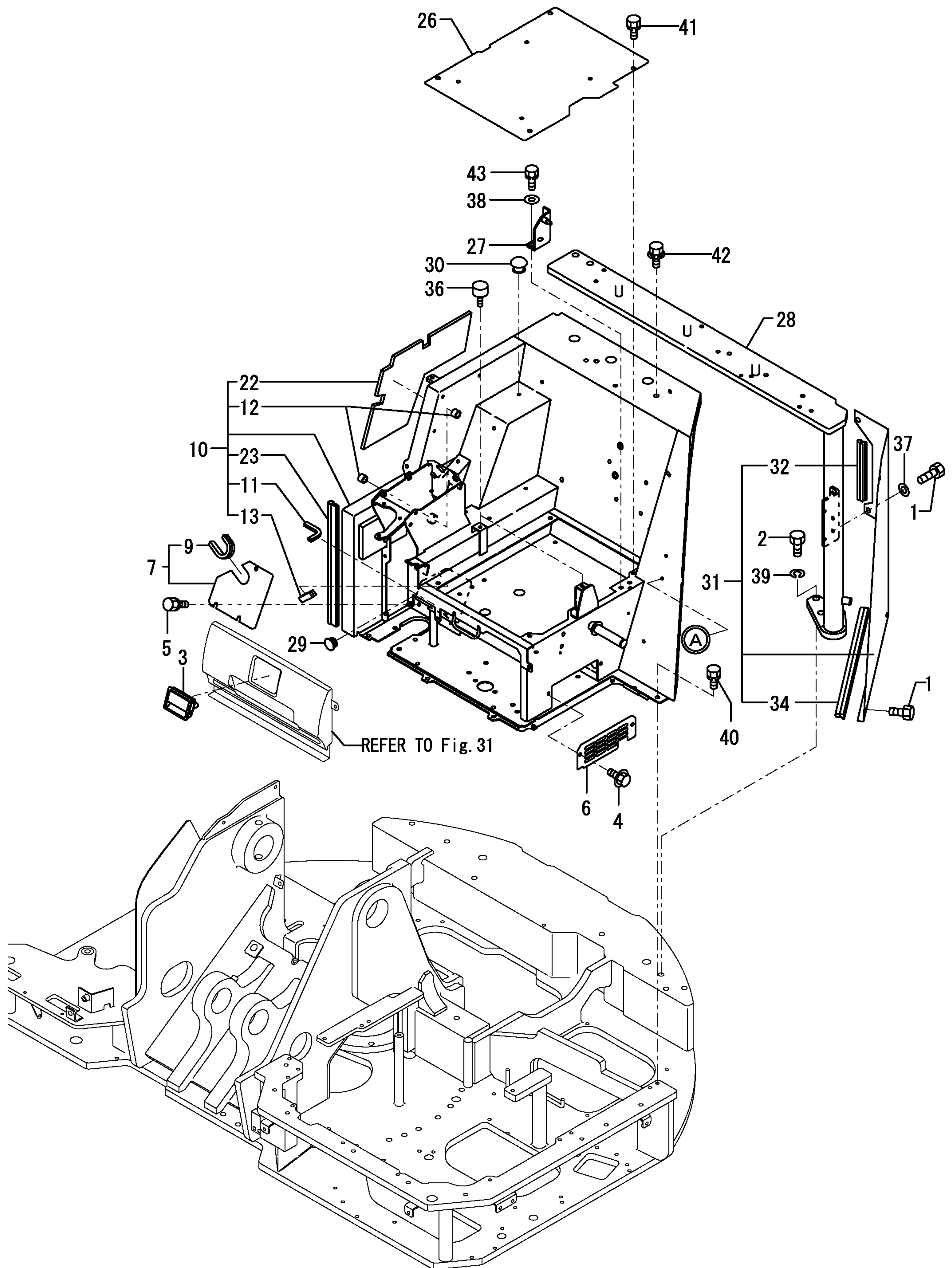
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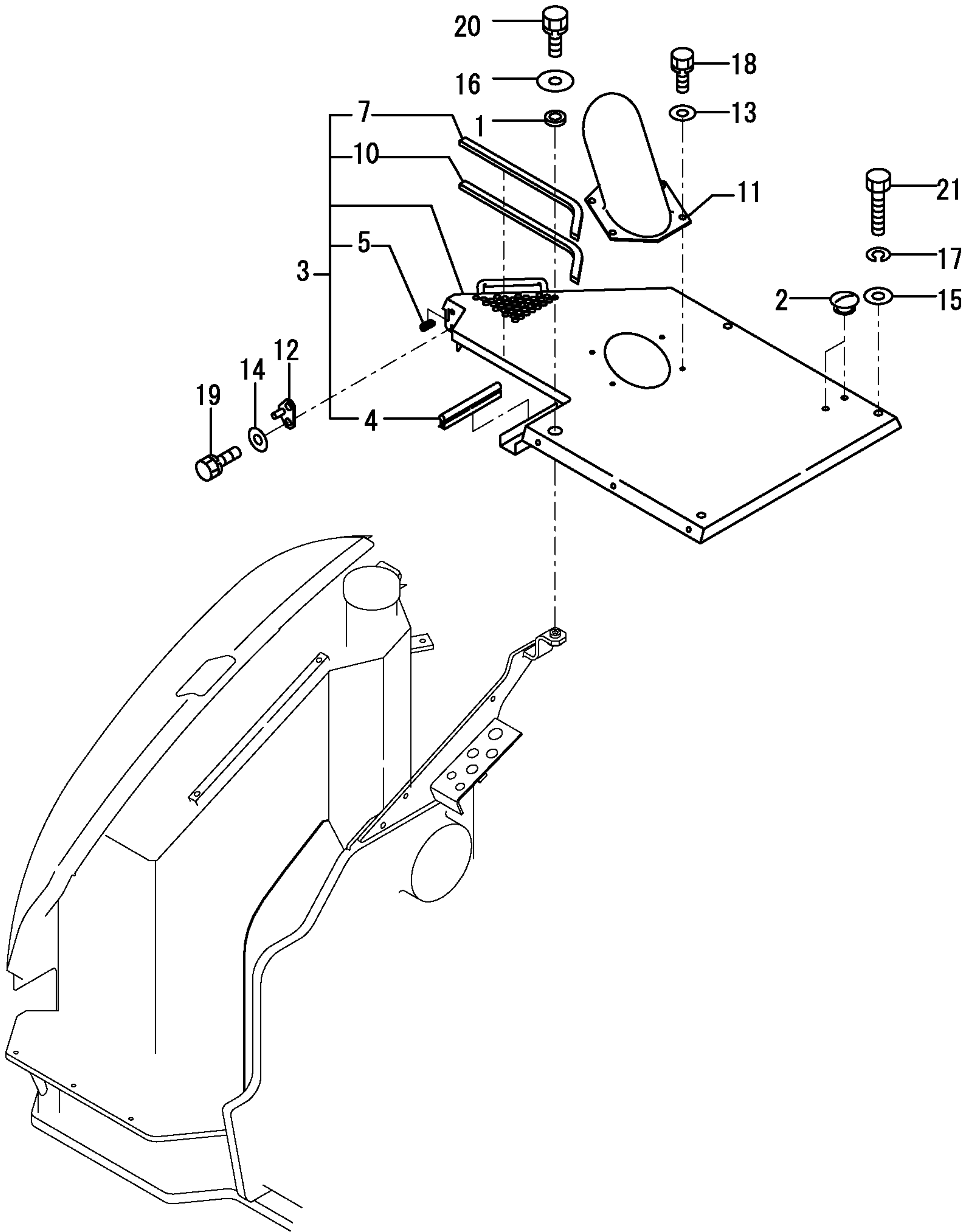


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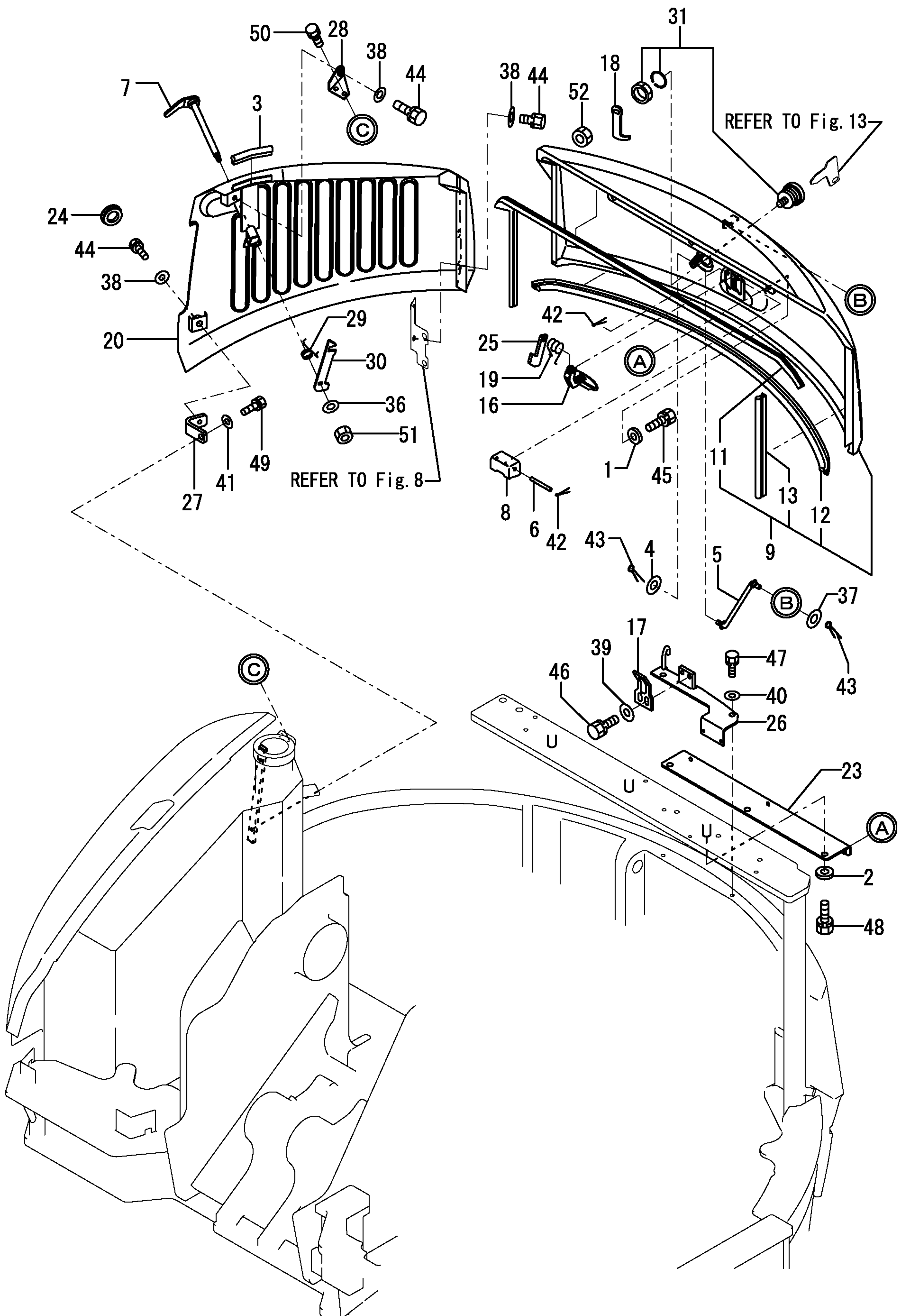


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7,1,,172455-65230,, "PLATE,KEY(YELLOW:87)",1,,,,,,,,,,,,,
8,1,,172455-65240,, "PLATE, ROCK",1,,,,,,,,,,,,,
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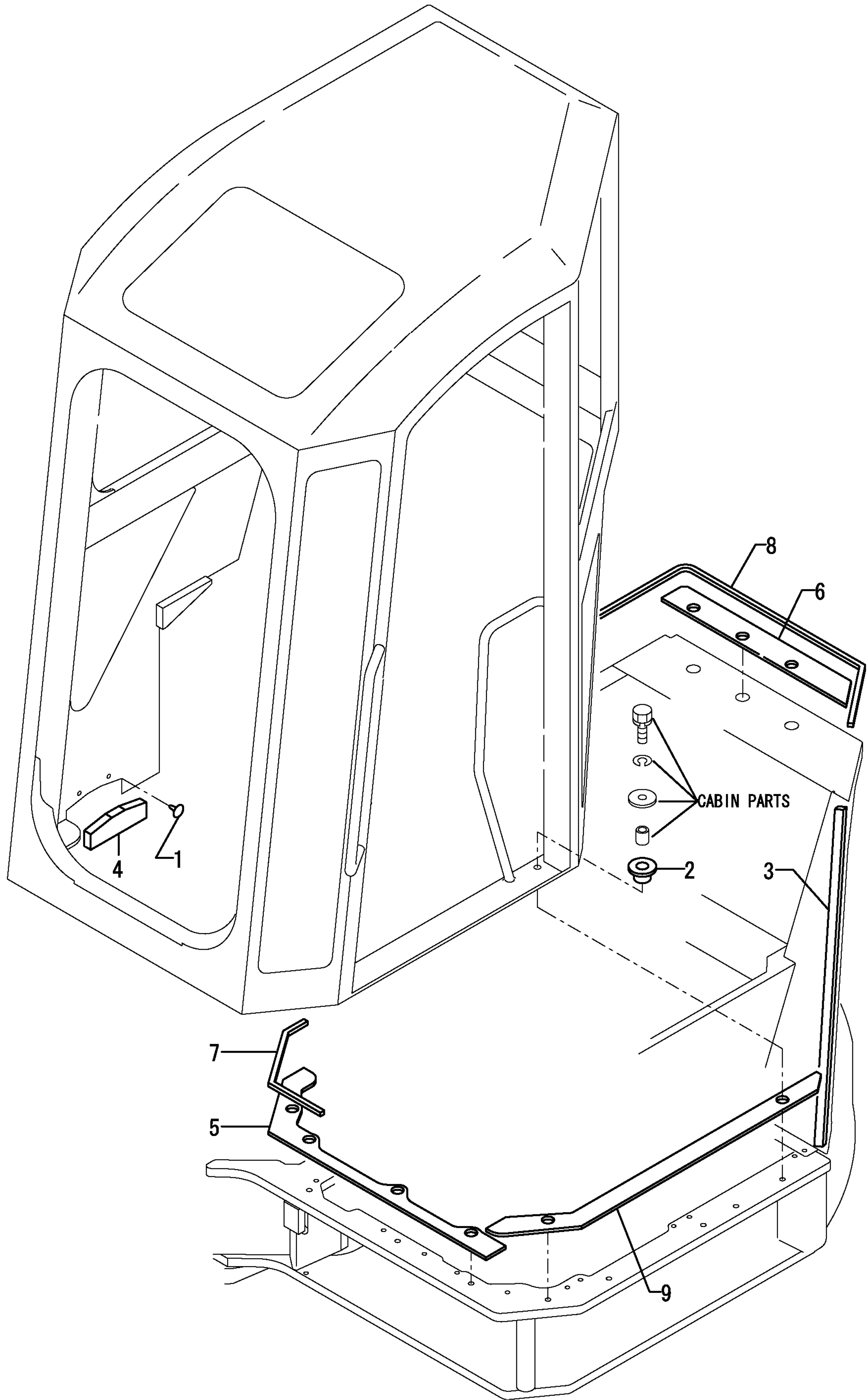
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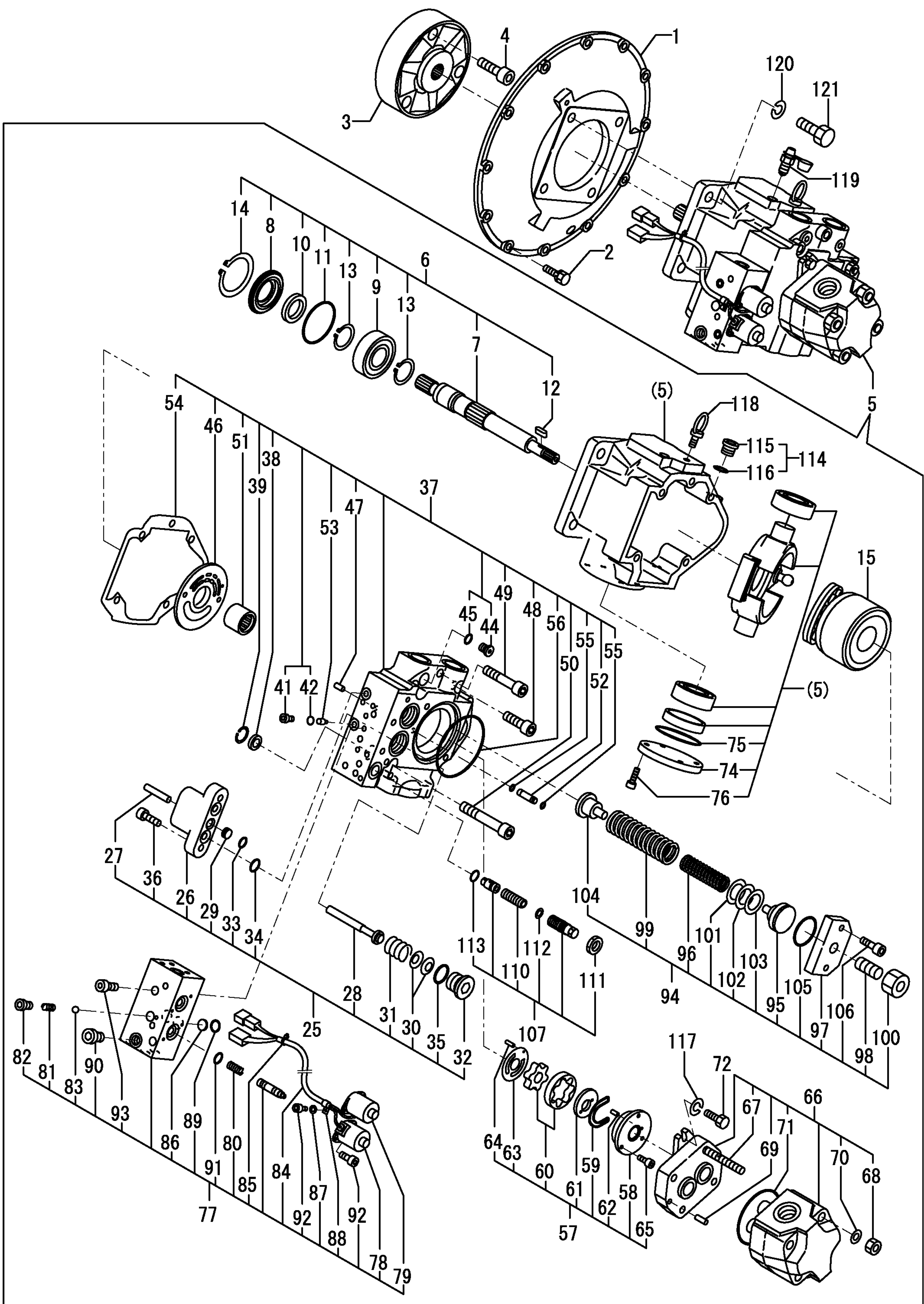


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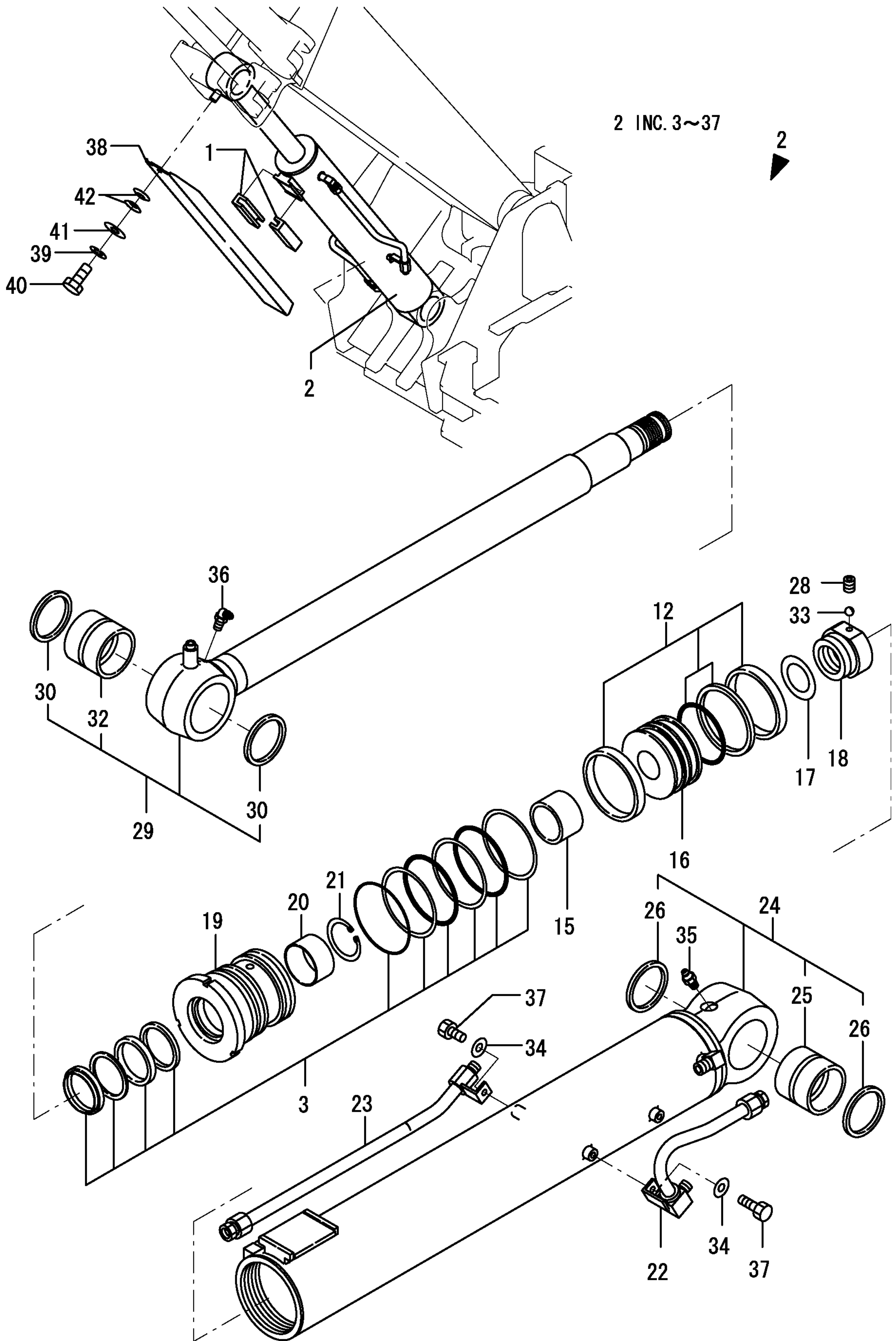


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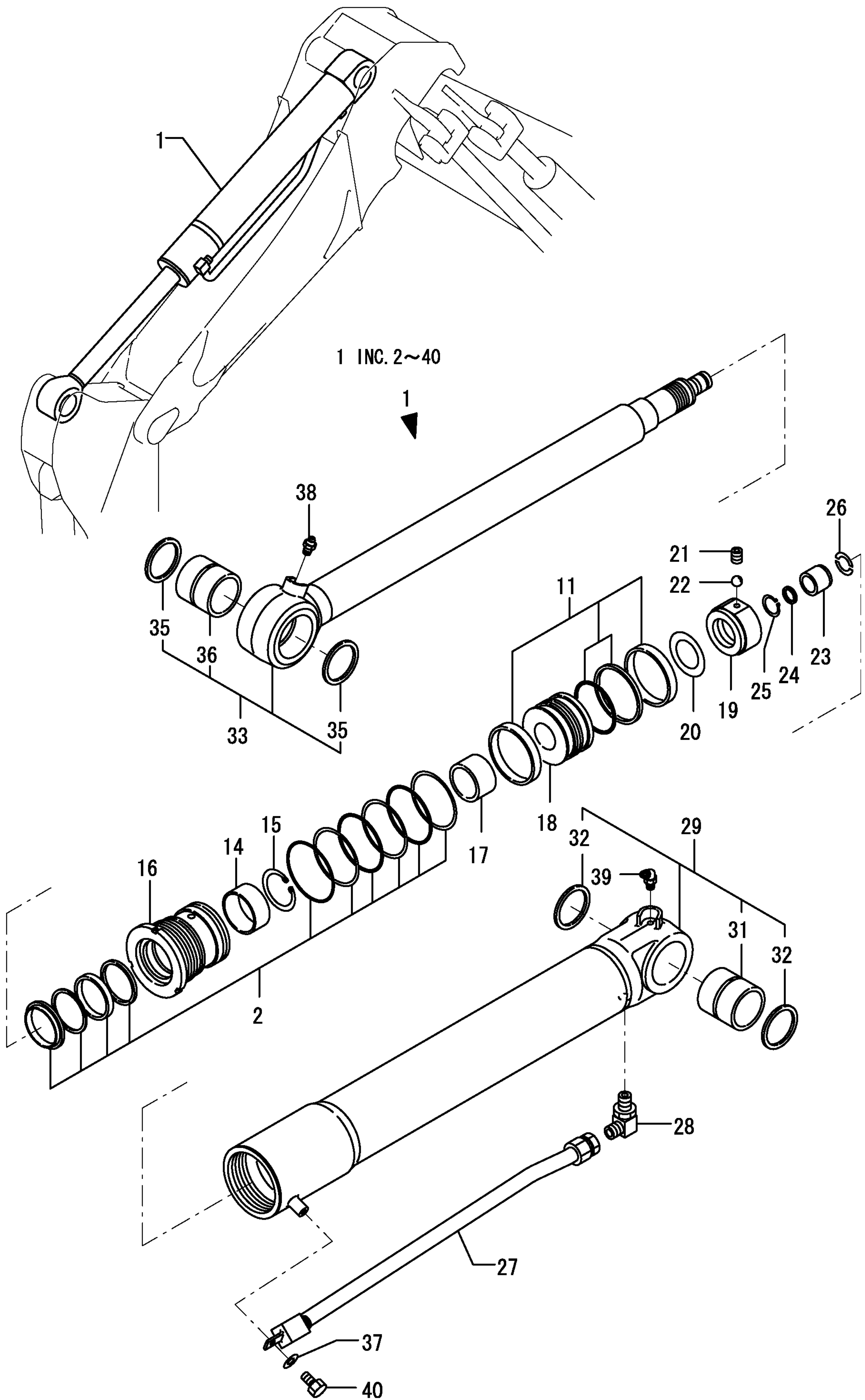
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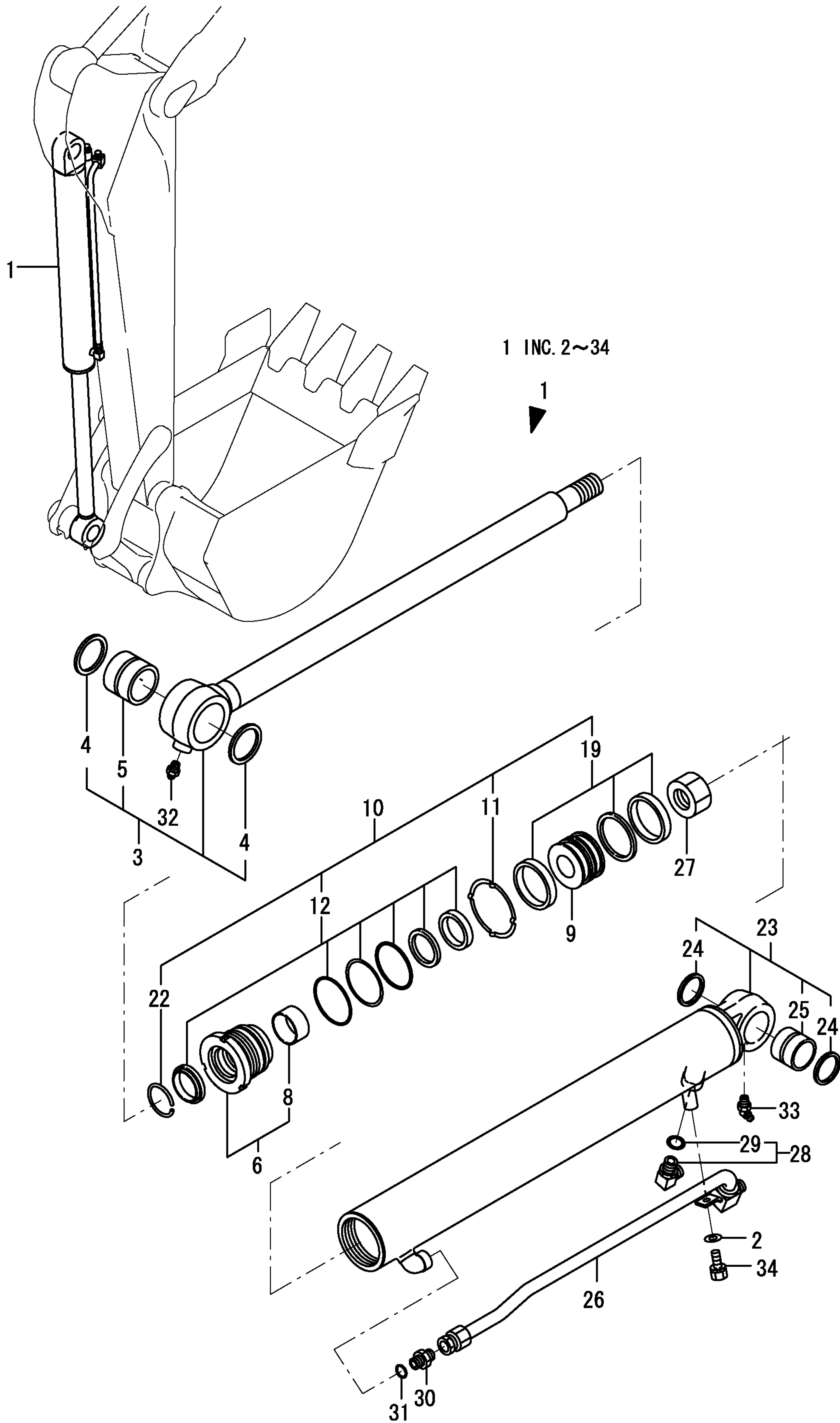
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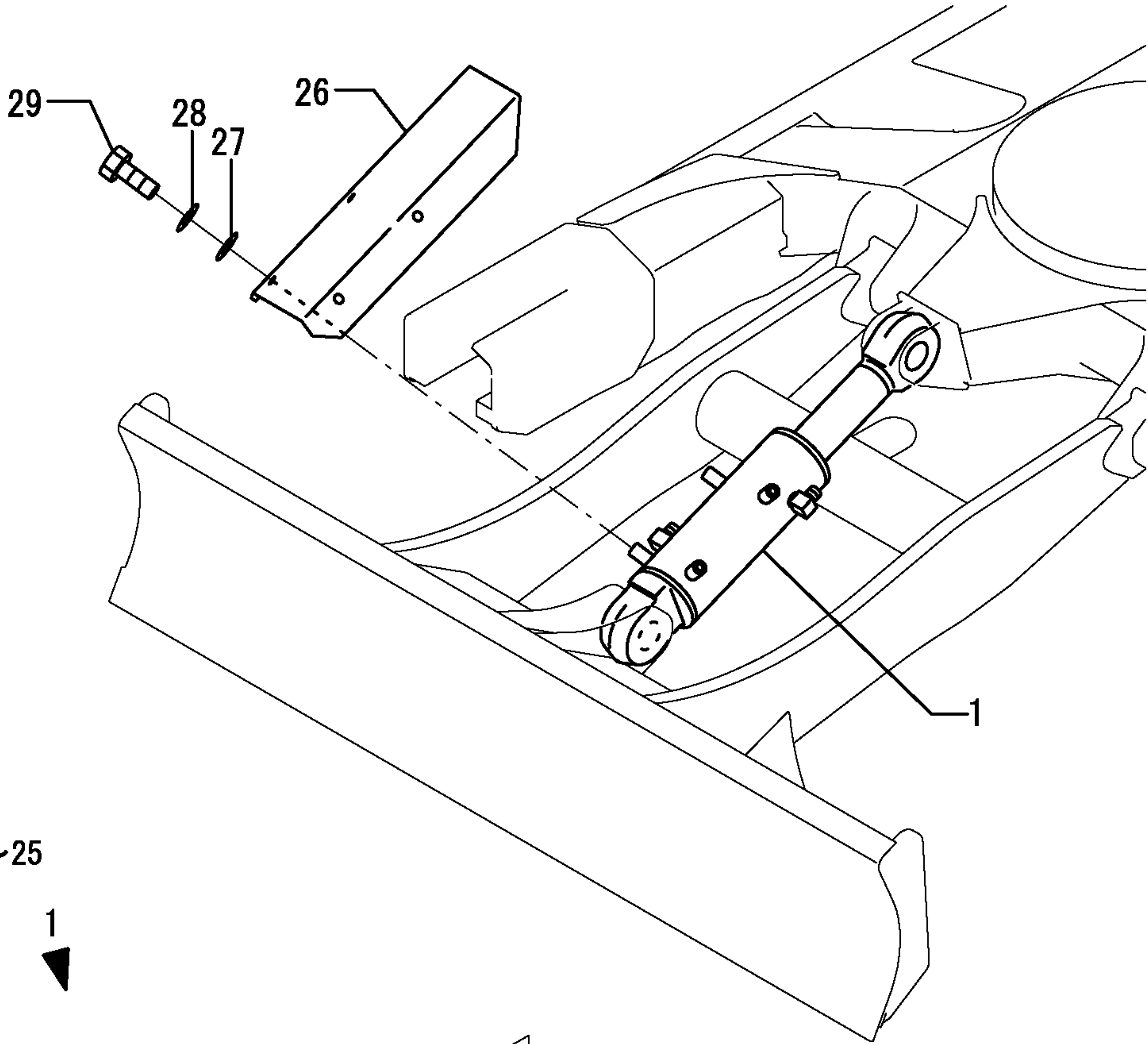
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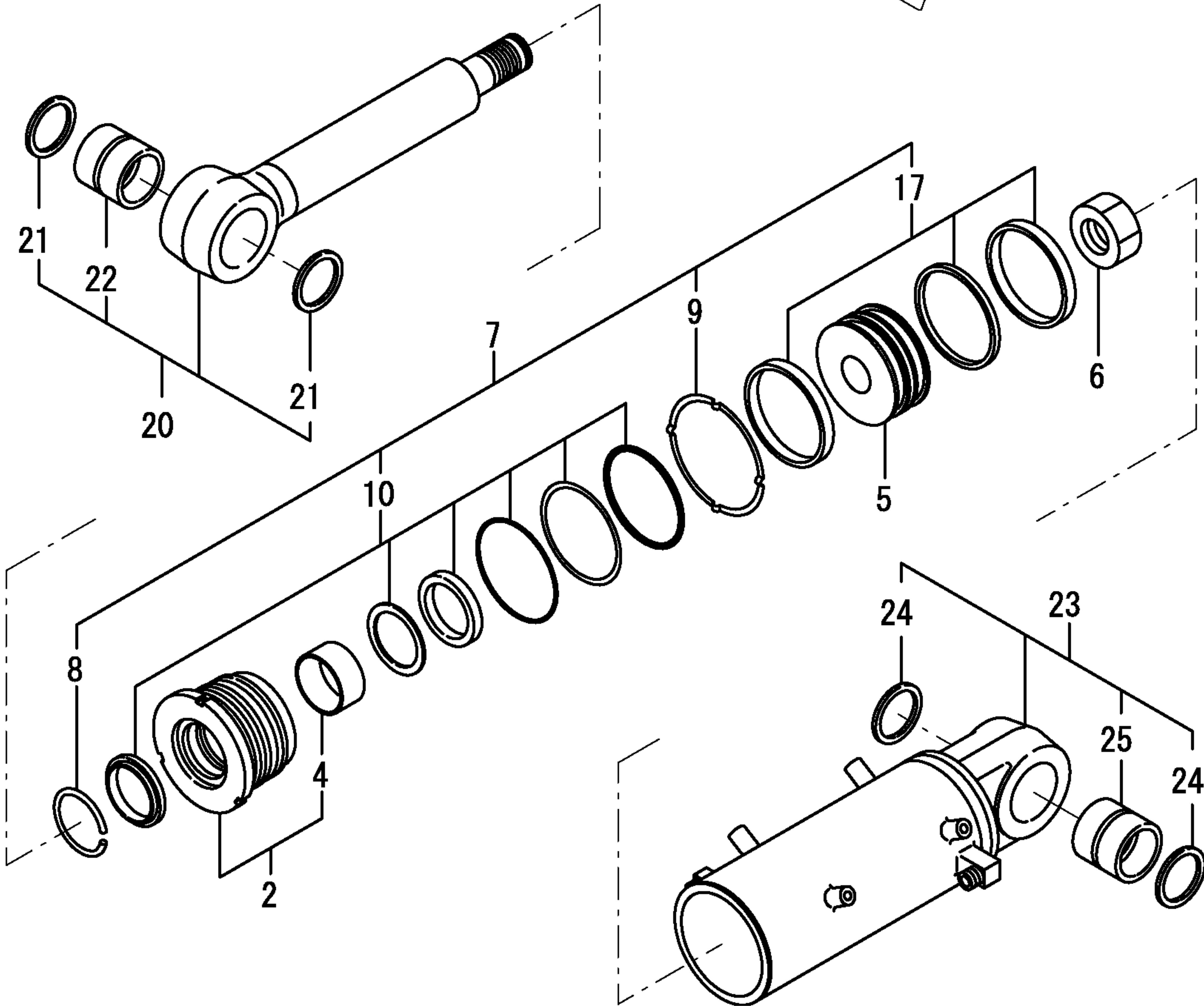
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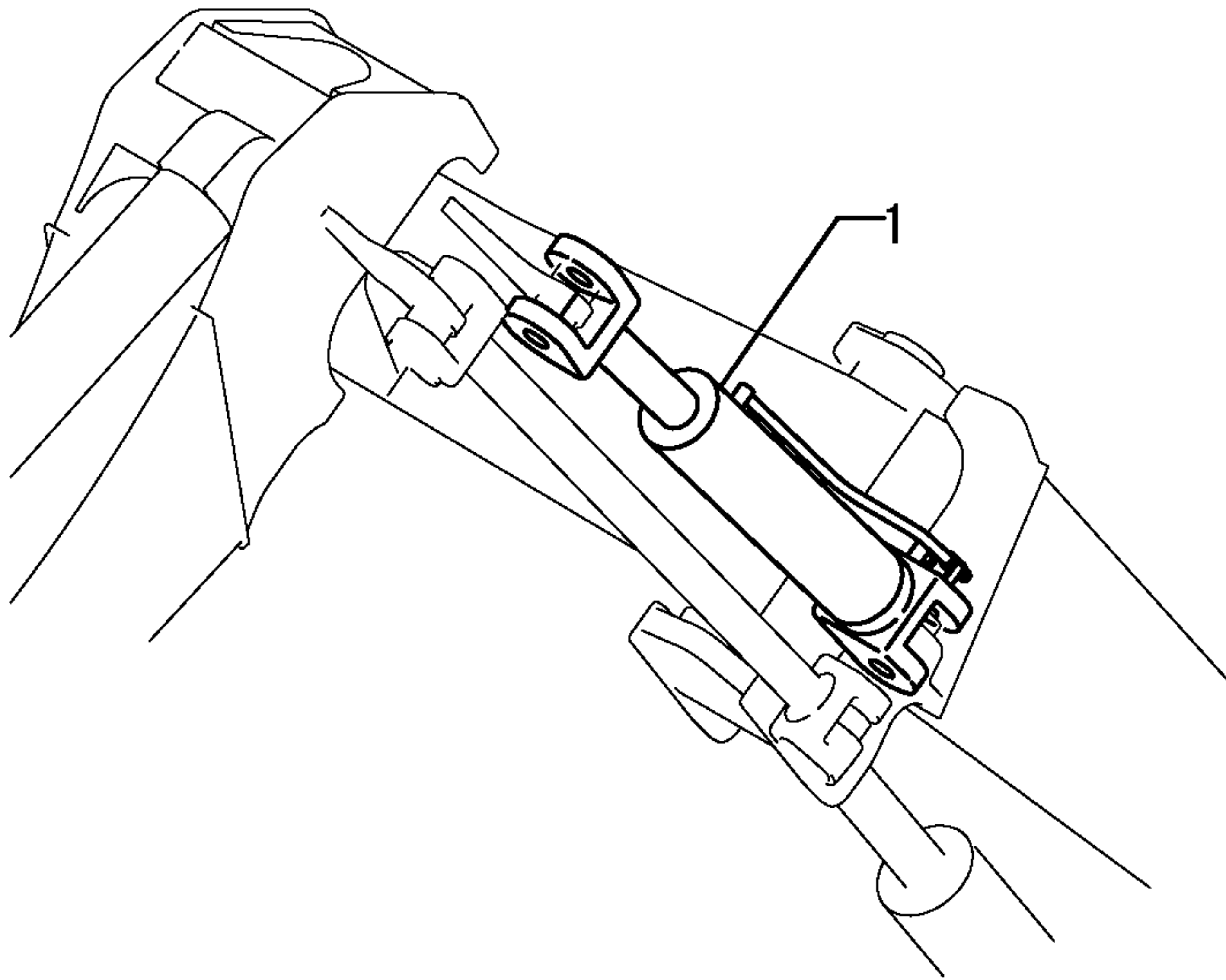
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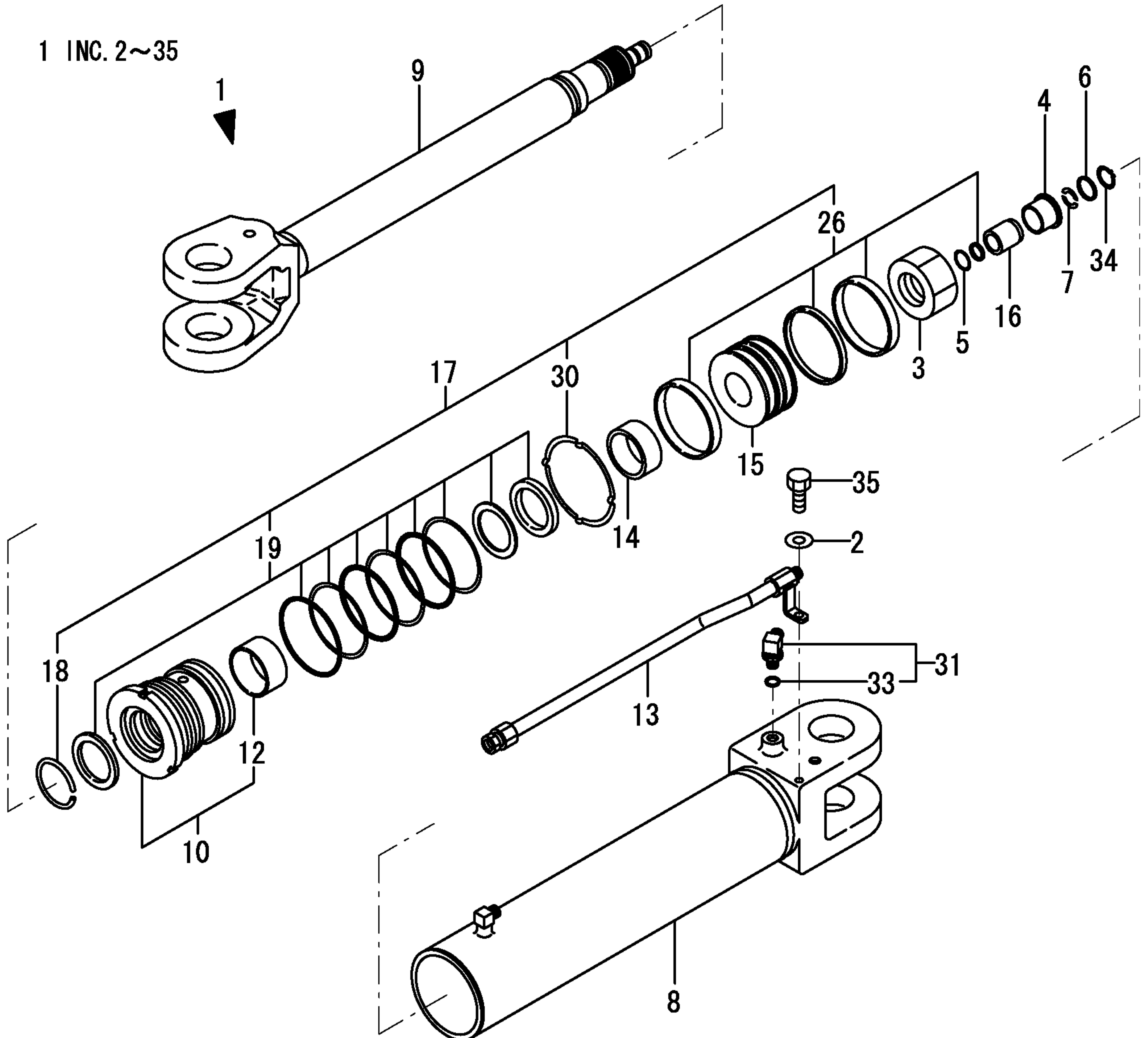
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17,2,,172455-71750,, "CYLINDER SEAL KIT",1,,,,,,,,,,,,,
18,3,,172020-10380,, "RING 82, SPRING",1,,,,,,,,,,,,,
19,3,,172455-71760,, "HEAD SEAL KIT",1,,,,,,,,,,,,,
26,3,,172455-71770,, "PISTON SEAL KIT",1,,,,,,,,,,,,,
30,3,,172162-72250,, "WASHER, LOCK",1,,,,,,,,,,,,,
31,2,,172142-76180,, "JOINT",1,,,,,,,,,,,,,
33,3,,24315-000140,, "O-RING 1B P-14.0",1,,,,,,,,,,,,,
34,2,,22242-000340,, "CIRCLIP 34",1,,,,,,,,,,,,,
35,2,,26013-100252,, "BOLT W/WASHER M10X25",1,,,,,,,,,,,,,

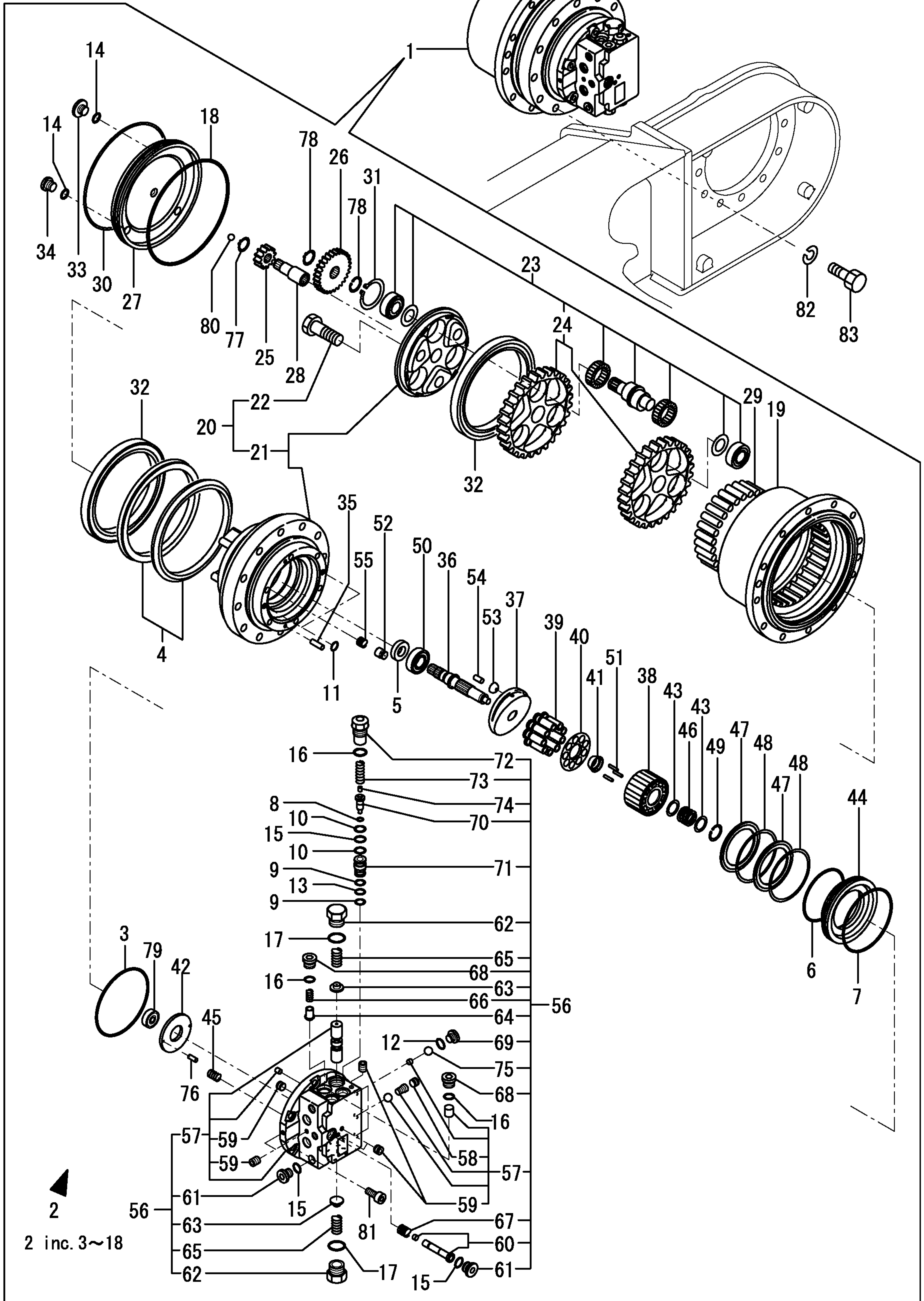


1 INC. 2~35

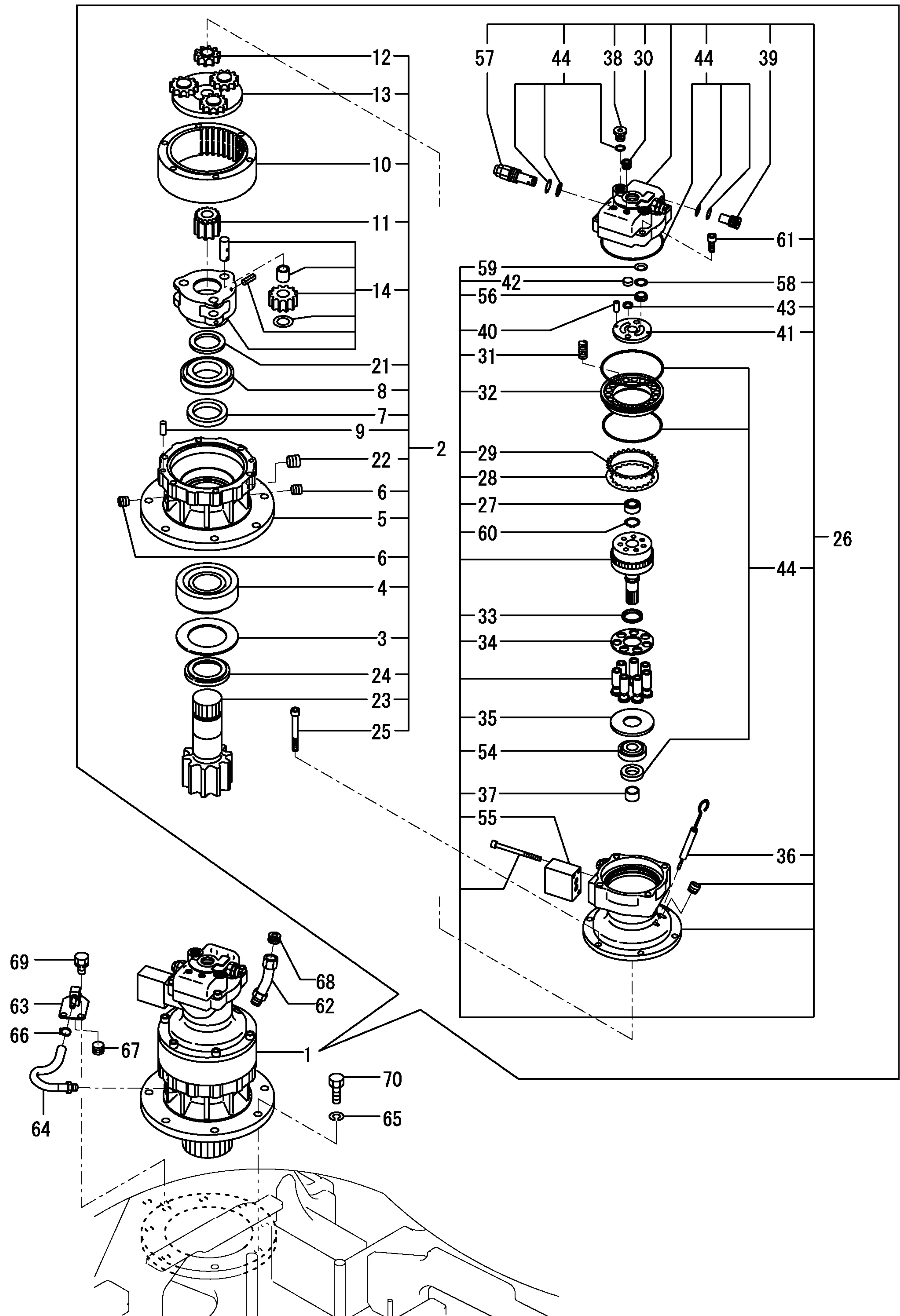


1,1,,172479-73300,, "MOTOR ASSY,DRIVE",2,,,,,,,,,,,,,
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3,3,,172479-73450,, O-RING,2,,,,,,,,,,,,,
4,3,,172479-73460,, "FLOATING SEAL KIT",2,,,,,,,,,,,,,
5,3,,172479-73630,, "OIL SEAL",2,,,,,,,,,,,,,
6,3,,172479-73640,, O-RING,2,,,,,,,,,,,,,
7,3,,172479-73650,, O-RING,2,,,,,,,,,,,,,
8,3,,172479-73910,, "PISTON SEAL",4,,,,,,,,,,,,,
9,3,,172479-73920,, "BACK UP RING",8,,,,,,,,,,,,,
10,3,,172479-73930,, "BACK UP RING",8,,,,,,,,,,,,,
11,3,,24315-000080,, "O-RING 1B P-8.0",4,,,,,,,,,,,,,
12,3,,24315-000080,, "O-RING 1B P-8.0",4,,,,,,,,,,,,,
13,3,,24315-000120,, "O-RING 1B P-12.0",4,,,,,,,,,,,,,
14,3,,24315-000140,, "O-RING 1B P-14.0",6,,,,,,,,,,,,,
15,3,,24315-000140,, "O-RING 1B P-14.0",8,,,,,,,,,,,,,
16,3,,24315-000180,, "O-RING 1B P-18.0",12,,,,,,,,,,,,,
17,3,,24315-000260,, "O-RING 1B P-26.0",4,,,,,,,,,,,,,
18,3,,24321-002300,, "O-RING 1A G-230.0",2,,,,,,,,,,,,,
19,2,,172479-73310,, HUB,2,,,,,,,,,,,,,
20,2,,172479-73320,, "SPINDLE KIT",2,,,,,,,,,,,,,
21,3,,172479-73330,, SPINDLE,2,,,,,,,,,,,,,
22,3,,172479-73340,, BOLT,6,,,,,,,,,,,,,
23,2,,172479-73350,, "RV GEAR",2,,,,,,,,,,,,,
24,3,,172479-73360,, "RV GEAR KIT",2,,,,,,,,,,,,,
25,2,,172479-73370,, "INPUT GEAR",2,,,,,,,,,,,,,
26,2,,172479-73380,, "SPAR GEAR KIT",2,,,,,,,,,,,,,
27,2,,172479-73390,, COVER,2,,,,,,,,,,,,,
28,2,,172479-73400,, COUPLING,2,,,,,,,,,,,,,
29,2,,172479-73410,, PIN,56,,,,,,,,,,,,,
30,2,,172479-73420,, RING,2,,,,,,,,,,,,,
31,2,,172479-73430,, "SNAP RING",6,,,,,,,,,,,,,
32,2,,172479-73440,, BEARING,4,,,,,,,,,,,,,
33,2,,172479-73470,, NUT,2,,,,,,,,,,,,,
34,2,,172479-73480,, PLUG,4,,,,,,,,,,,,,
35,2,,172479-73490,, "PIN,STRAIGHT",4,,,,,,,,,,,,,
36,2,,172479-73500,, SHAFT,2,,,,,,,,,,,,,
37,2,,172479-73510,, "SWASH PLATE",2,,,,,,,,,,,,,
38,2,,172479-73520,, "CYLINDER BLOCK",2,,,,,,,,,,,,,
39,2,,172479-73530,, "PISTON KIT",2,,,,,,,,,,,,,
40,2,,172479-73540,, "RETAINER PLATE",2,,,,,,,,,,,,,
41,2,,172479-73550,, "THRUST BALL",2,,,,,,,,,,,,,
42,2,,172479-73560,, "TIMING PLATE",2,,,,,,,,,,,,,
43,2,,172479-73570,, WASHER,4,,,,,,,,,,,,,
44,2,,172479-73580,, PISTON,2,,,,,,,,,,,,,
45,2,,172479-73590,, SPRING,16,,,,,,,,,,,,,
46,2,,172479-73600,, SPRING,2,,,,,,,,,,,,,
47,2,,172479-73610,, "PLATE,FRICTION",4,,,,,,,,,,,,,
48,2,,172479-73620,, PLATE,4,,,,,,,,,,,,,
49,2,,172479-73660,, CLIP,2,,,,,,,,,,,,,
50,2,,172479-73670,, BEARING,2,,,,,,,,,,,,,
51,2,,172479-73680,, BEARING,6,,,,,,,,,,,,,
52,2,,172479-73690,, PISTON,2,,,,,,,,,,,,,
53,2,,172479-73700,, PIVOT,4,,,,,,,,,,,,,
54,2,,172479-73710,, "PIN,STRAIGHT",4,,,,,,,,,,,,,
55,2,,172479-73720,, SPRING,2,,,,,,,,,,,,,
56,2,,172479-73730,, "FLANGE,REAR",2,,,,,,,,,,,,,
57,3,,172479-73740,, "FLANGE,REAR KIT",2,,,,,,,,,,,,,
58,4,,172479-73750,, PLUG,2,,,,,,,,,,,,,
59,4,,172479-73760,, PLUG,18,,,,,,,,,,,,,
60,3,,172479-73770,, "SPOOL KIT",2,,,,,,,,,,,,,
61,3,,172479-73780,, PLUG,4,,,,,,,,,,,,,
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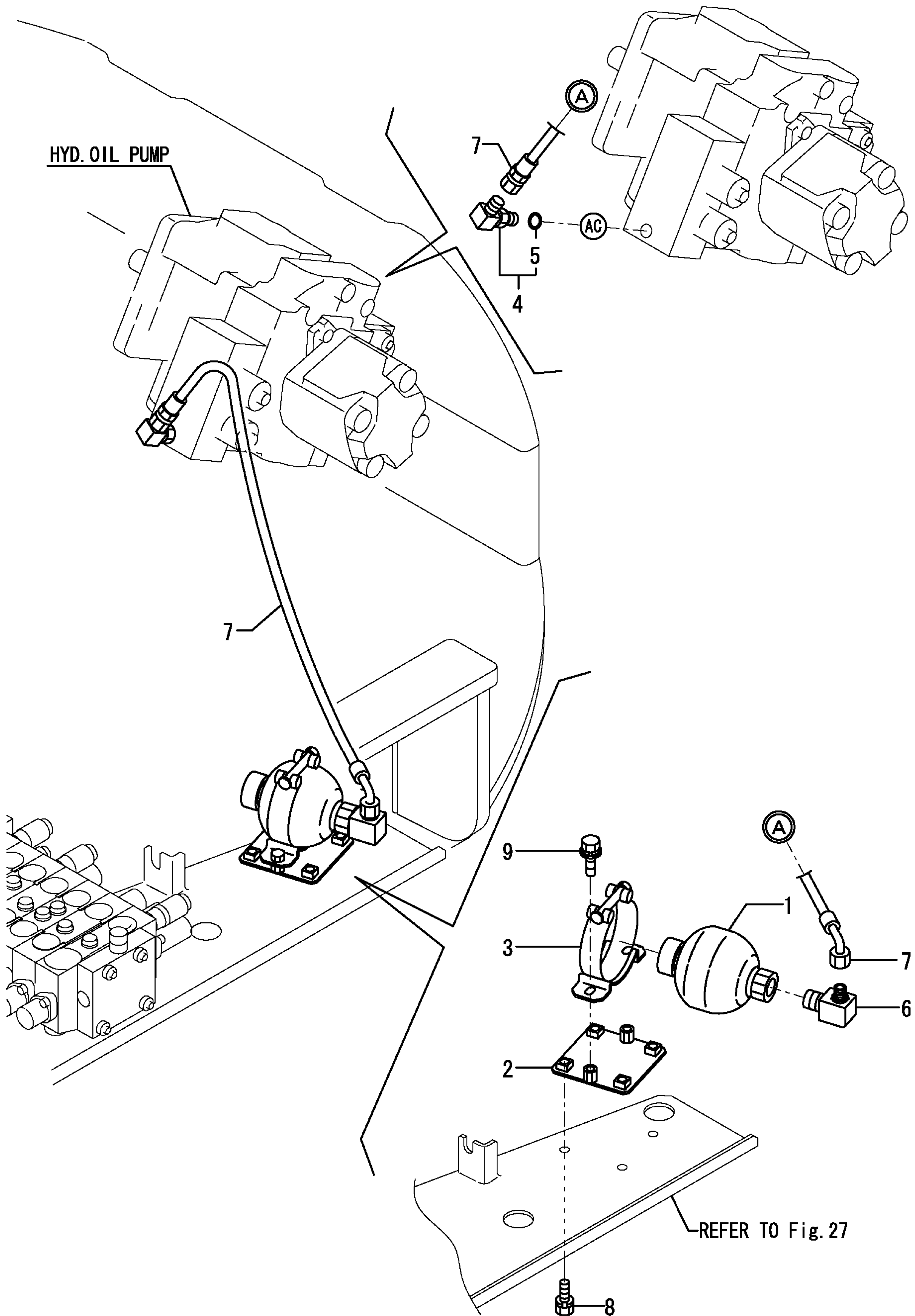
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66,3,,172479-73830,, SPRING,4,,,,,,,,,,,,,,,,,,,,,
67,3,,172479-73840,, SPRING,2,,,,,,,,,,,,,,,,,,,,,
68,3,,172479-73850,, PLUG,8,,,,,,,,,,,,,,,,,,,,,
69,3,,172479-73860,, PLUG,4,,,,,,,,,,,,,,,,,,,,,
70,3,,172479-73870,, VALVE,4,,,,,,,,,,,,,,,,,,,,,
71,3,,172479-73880,, SLEEVE,4,,,,,,,,,,,,,,,,,,,,,
72,3,,172479-73890,, PLUG,4,,,,,,,,,,,,,,,,,,,,,
73,3,,172479-73900,, SPRING,4,,,,,,,,,,,,,,,,,,,,,
74,3,,172479-73940,, ORIFICE,4,,,,,,,,,,,,,,,,,,,,,
75,3,,24190-100001,, "BALL 5/16, STEEL",4,,,,,,,,,,,,,,,,,,,,,
76,2,,172479-73950,, "PIN, STRAIGHT",4,,,,,,,,,,,,,,,,,,,,,
77,2,,22242-000190,, "CIRCLIP 19",2,,,,,,,,,,,,,,,,,,,,,
78,2,,22242-000250,, "CIRCLIP 25S",12,,,,,,,,,,,,,,,,,,,,,
79,2,,24101-063014,, "BALL BEARING",2,,,,,,,,,,,,,,,,,,,,,
80,2,,24190-120001,, "BALL 3/8, STEEL",2,,,,,,,,,,,,,,,,,,,,,
81,2,,26450-120302,, "BOLT M12X30",12,,,,,,,,,,,,,,,,,,,,,
82,1,,22217-160000,, "SPRING WASHER 16",24,,,,,,,,,,,,,,,,,,,,,
83,1,,26116-160452,, "BOLT M16X 45 PLATED",24,,,,,,,,,,,,,,,,,,,,,



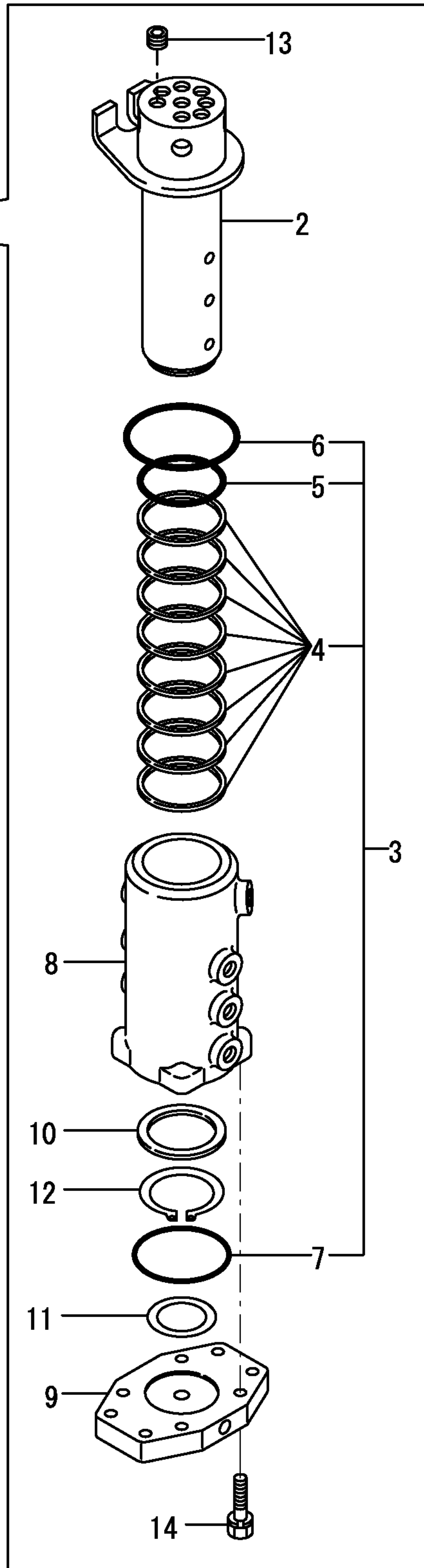
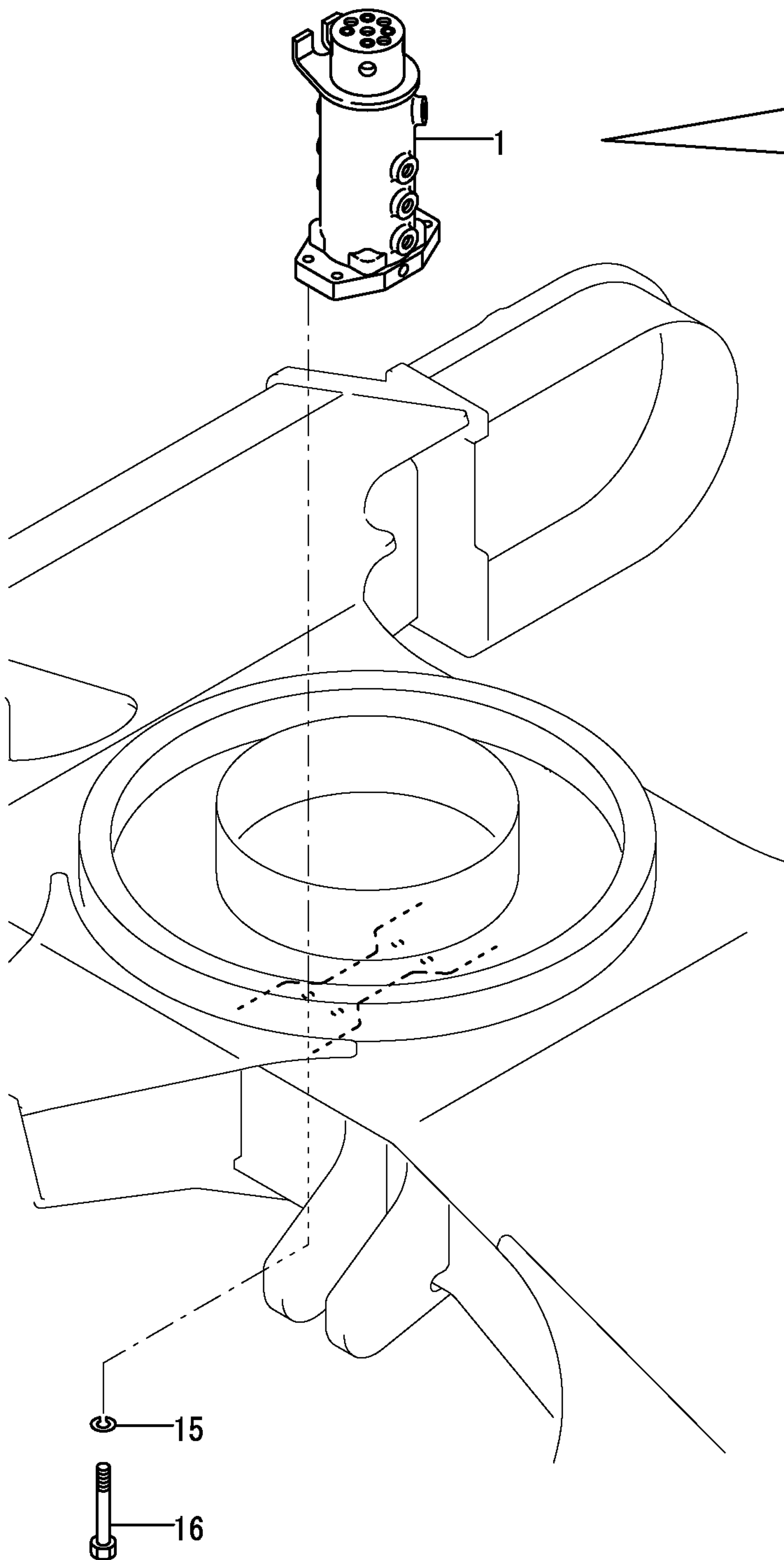
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3,3,,172162-71480,, PLATE,1,,,,,,,,,,,,,
4,3,,172162-71490,, "BEARING,TAPER ROLLER",1,,,,,,,,,,,,,
5,3,,172162-71500,, "GEAR CASE",1,,,,,,,,,,,,,
6,3,,172162-71510,, "PLUG PT1/8",2,,,,,,,,,,,,,
7,3,,172162-71520,, "SEAL,OIL",1,,,,,,,,,,,,,
8,3,,172162-71530,, "BEARING,TAPER ROLLER",1,,,,,,,,,,,,,
9,3,,172162-71540,, PIN,2,,,,,,,,,,,,,
10,3,,172162-71550,, "GEAR,RING",1,,,,,,,,,,,,,
11,3,,172162-71560,, "GEAR 4,SPUR",1,,,,,,,,,,,,,
12,3,,172162-71570,, "GEAR,SUN",1,,,,,,,,,,,,,
13,3,,172162-71580,, "HOLDER 1 COMPL.",1,,,,,,,,,,,,,
14,3,,172162-71590,, "HOLDER 2 COMPL.",1,,,,,,,,,,,,,
21,3,,172162-71660,, COLLAR,2,,,,,,,,,,,,,
22,3,,172162-71670,, "PLUG PT3/8",1,,,,,,,,,,,,,
23,3,,172187-73380,, SHAFT,1,,,,,,,,,,,,,
24,3,,172187-73390,, COLLAR,1,,,,,,,,,,,,,
25,3,,26450-120952,, "BOLT M12X95,HEX.SCKT",6,,,,,,,,,,,,,
26,2,,172187-73411,, "MOTOR ASSY, HYD.OIL",1,,,,,,,,,,,,,
27,3,,172162-71711,, "BEARING, NEEDLE",1,,,,,,,,,,,,,
28,3,,172162-71720,, "PLATE,FRICTION",1,,,,,,,,,,,,,
29,3,,172162-71730,, PLATE,1,,,,,,,,,,,,,
30,3,,172162-71780,, "PLUG PT1/4",2,,,,,,,,,,,,,
31,3,,172162-71820,, SPRING,18,,,,,,,,,,,,,
32,3,,172162-71830,, PISTON,1,,,,,,,,,,,,,
33,3,,172162-71850,, SPRING,1,,,,,,,,,,,,,
34,3,,172162-71860,, "PLATE,RETURN",1,,,,,,,,,,,,,
35,3,,172162-71870,, "PLATE,CAM",1,,,,,,,,,,,,,
36,3,,172162-71880,, "GAUGE COMP.,LEVEL",1,,,,,,,,,,,,,
37,3,,172162-71900,, COLLAR,1,,,,,,,,,,,,,
38,3,,172162-71910,, CAP,1,,,,,,,,,,,,,
39,3,,172162-71920,, "VALVE COMP.,BYPASS",2,,,,,,,,,,,,,
40,3,,172162-71960,, "PIN,STRAIGHT",2,,,,,,,,,,,,,
41,3,,172176-73351,, "BALANCE PLATE",1,,,,,,,,,,,,,
42,3,,172176-73360,, PISTON,2,,,,,,,,,,,,,
43,3,,172176-73370,, "TEFLON RING",2,,,,,,,,,,,,,
44,3,,172187-73420,, "SEAL KIT",1,,,,,,,,,,,,,
54,3,,172165-73430,, BEARING,1,,,,,,,,,,,,,
55,3,,172187-73430,, TIMER,1,,,,,,,,,,,,,
56,3,,172165-73441,, BUSHING,4,,,,,,,,,,,,,
57,3,,172187-73440,, "RELIEF, 210-60",2,,,,,,,,,,,,,
58,3,,172165-73451,, "TEFLON RING",4,,,,,,,,,,,,,
59,3,,172165-73461,, WAVE,4,,,,,,,,,,,,,
60,3,,172165-73480,, "SNAP RING",1,,,,,,,,,,,,,
61,3,,26450-120302,, "BOLT M12X30",4,,,,,,,,,,,,,
62,1,,172187-73340,, "FUEL PIPE",1,,,,,,,,,,,,,
63,1,,172455-76130,, DRAIN,1,,,,,,,,,,,,,
64,1,,172455-78120,, "HOSE G806AY032",1,,,,,,,,,,,,,
65,1,,22217-160000,, "SPRING WASHER 16",8,,,,,,,,,,,,,
66,1,,23001-016000,, "HOSE CLAMP 16",1,,,,,,,,,,,,,
67,1,,23871-030000,, "PLUG PT3/8,SCREW",1,,,,,,,,,,,,,
68,1,,23871-040000,, "PLUG PT1/2,SCREW",1,,,,,,,,,,,,,
69,1,,26013-100162,, "BOLT M10X 16",2,,,,,,,,,,,,,
70,1,,26116-160502,, "BOLT M16X 50 PLATED",8,,,,,,,,,,,,,



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2,1,,172478-73610,,BRACKET,1,,,,,,,,,,,,,
3,1,,172478-73630,,CLAMP,1,,,,,,,,,,,,,
4,1,,172141-76180,,CONNECTOR,1,,,,,,,,,,,,,
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6,1,,172478-76200,,CONNECTOR,1,,,,,,,,,,,,,
7,1,,172467-78250,, "HOSE F403BC074S",1,,,,,,,,,,,,,
8,1,,26013-100202,, "BOLT W/WASHER M10X20",3,,,,,,,,,,,,,
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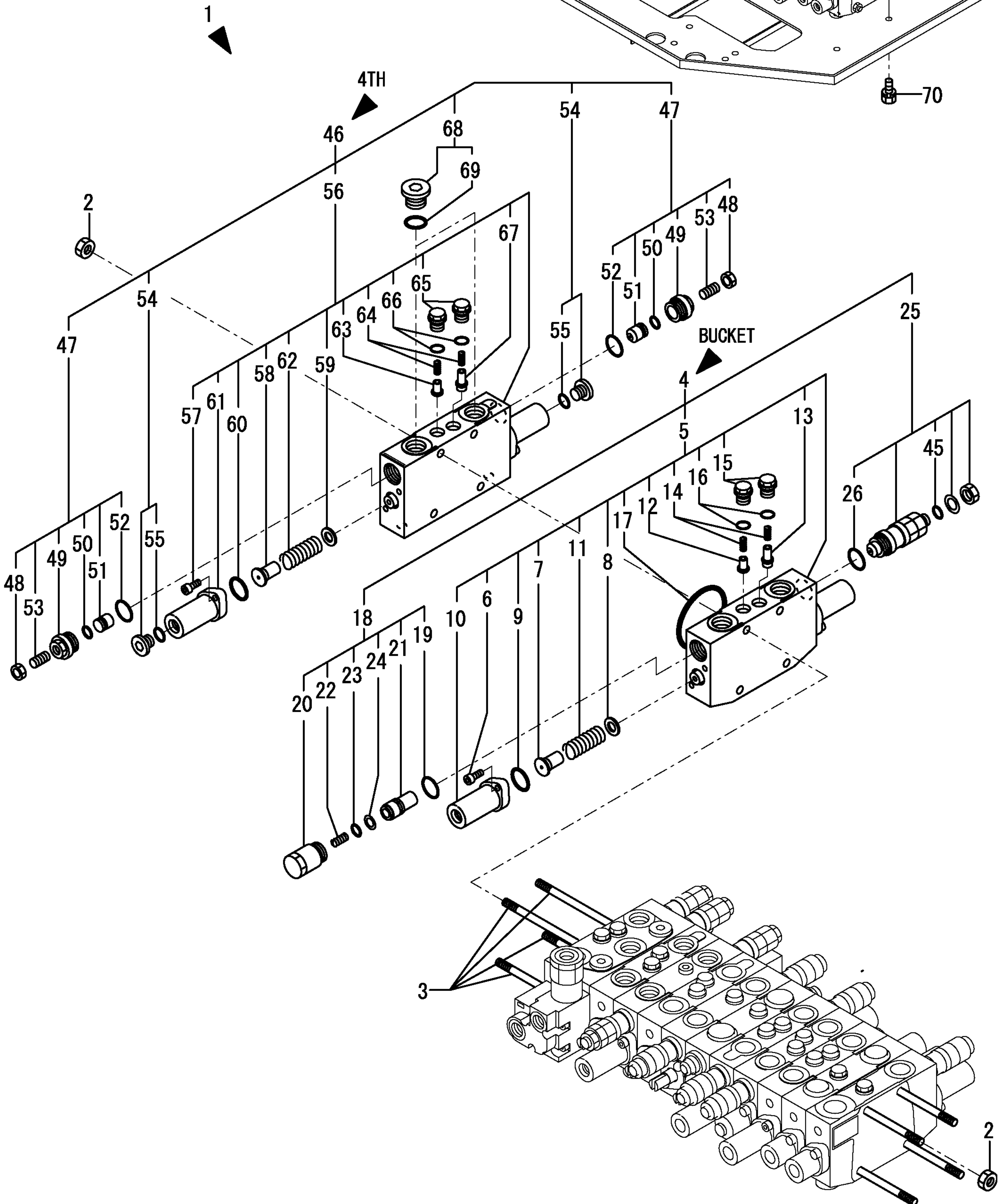
1,1,,172187-73801,, "JOINT ASSY, SWIVEL",1,,,,,,,,,,,,,
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4,3,,172423-73820,, "SEAL, SWIVEL",8,,,,,,,,,,,,,
5,3,,24311-000800,, "O-RING 1A P-80.0",1,,,,,,,,,,,,,
6,3,,24311-001000,, "O-RING 1A P-100.0",1,,,,,,,,,,,,,
7,3,,24321-000950,, "O-RING 1A G-95.0",1,,,,,,,,,,,,,
8,2,,172147-73830,, "HUB, SWIVEL",1,,,,,,,,,,,,,
9,2,,172147-73850,, PLATE,1,,,,,,,,,,,,,
10,2,,172122-73860,, "SPACER, SWIVEL",1,,,,,,,,,,,,,
11,2,,172122-73870,, "THRUST WASHER",1,,,,,,,,,,,,,
12,2,,22242-000700,, "CIRCLIP 70",1,,,,,,,,,,,,,
13,2,,23871-030000,, "PLUG PT3/8, SCREW",4,,,,,,,,,,,,,
14,2,,26013-100402,, "BOLT M10X 40",4,,,,,,,,,,,,,
15,1,,22217-120000,, "SPRING WASHER 12",4,,,,,,,,,,,,,
16,1,,26116-120902,, "BOLT M12X 90 PLATED",4,,,,,,,,,,,,,



1,1,,172489-74100,, "VALVE ASSY, CONTROL",1,,,,,,,,,,,,,
2,2,,172422-74110,, NUT,8,,,,,,,,,,,,,
3,2,,172489-74110,, "TIE ROD",4,,,,,,,,,,,,,
4,2,,172489-74250,, "SECTION ASSY, BUCKET",1,,,,,,,,,,,,,
5,3,,172489-74150,, "SECTION, BUCKET",1,,,,,,,,,,,,,
6,4,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
7,4,,172478-74180,, "SEAT, SPRING",2,,,,,,,,,,,,,
8,4,,172175-74220,, "SEAT, SPRING",2,,,,,,,,,,,,,
9,4,,172151-74320,, O-RING,2,,,,,,,,,,,,,
10,4,,172455-74390,, CAP,2,,,,,,,,,,,,,
11,4,,172455-74410,, SPRING,2,,,,,,,,,,,,,
12,4,,172455-74420,, POPPET,1,,,,,,,,,,,,,
13,4,,172455-74430,, "POPPET, VALVE",1,,,,,,,,,,,,,
14,4,,172455-74440,, SPRING,2,,,,,,,,,,,,,
15,4,,172455-74450,, PLUG,2,,,,,,,,,,,,,
16,4,,172455-74460,, PACKING,2,,,,,,,,,,,,,
17,4,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
18,3,,172489-74160,, "ANTI POID VALVE ASSY",1,,,,,,,,,,,,,
19,4,,172116-74150,, O-RING,1,,,,,,,,,,,,,
20,4,,172489-74170,, PLUG,1,,,,,,,,,,,,,
21,4,,172489-74180,, POPPET,1,,,,,,,,,,,,,
22,4,,172489-74190,, SPRING,1,,,,,,,,,,,,,
23,4,,172455-74910,, O-RING,1,,,,,,,,,,,,,
24,4,,172455-74920,, "BACK-UP RING",1,,,,,,,,,,,,,
25,3,,172478-74400,, "VALVE,RELIEF 280/40",1,,,,,,,,,,,,,
26,4,,172116-74150,, O-RING,1,,,,,,,,,,,,,
45,4,,24315-000100,, "O-RING 1B P-10.0",1,,,,,,,,,,,,,
46,2,,172478-74630,, "SECTION ASSY,4TH",1,,,,,,,,,,,,,
47,3,,172455-74320,, "SHUTOFF VALVE",2,,,,,,,,,,,,,
48,4,,172455-74010,, NUT,2,,,,,,,,,,,,,
49,4,,172455-74020,, PLUG,2,,,,,,,,,,,,,
50,4,,172455-74030,, O-RING,2,,,,,,,,,,,,,
51,4,,172455-74040,, POPPET,2,,,,,,,,,,,,,
52,4,,172116-74150,, O-RING,2,,,,,,,,,,,,,
53,4,,172455-74990,, "SET SCREW",2,,,,,,,,,,,,,
54,3,,172478-74440,, PLUG,2,,,,,,,,,,,,,
55,4,,24315-000110,, "O-RING 1B P-11.0",2,,,,,,,,,,,,,
56,3,,172478-74460,, "SECTION 4TH",1,,,,,,,,,,,,,
57,4,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
58,4,,172478-74180,, "SEAT, SPRING",2,,,,,,,,,,,,,
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60,4,,172151-74320,, O-RING,2,,,,,,,,,,,,,
61,4,,172455-74390,, CAP,2,,,,,,,,,,,,,
62,4,,172455-74410,, SPRING,2,,,,,,,,,,,,,
63,4,,172455-74420,, POPPET,1,,,,,,,,,,,,,
64,4,,172455-74440,, SPRING,2,,,,,,,,,,,,,
65,4,,172455-74450,, PLUG,2,,,,,,,,,,,,,
66,4,,172455-74460,, PACKING,2,,,,,,,,,,,,,
67,4,,172478-74470,, POPPET,1,,,,,,,,,,,,,
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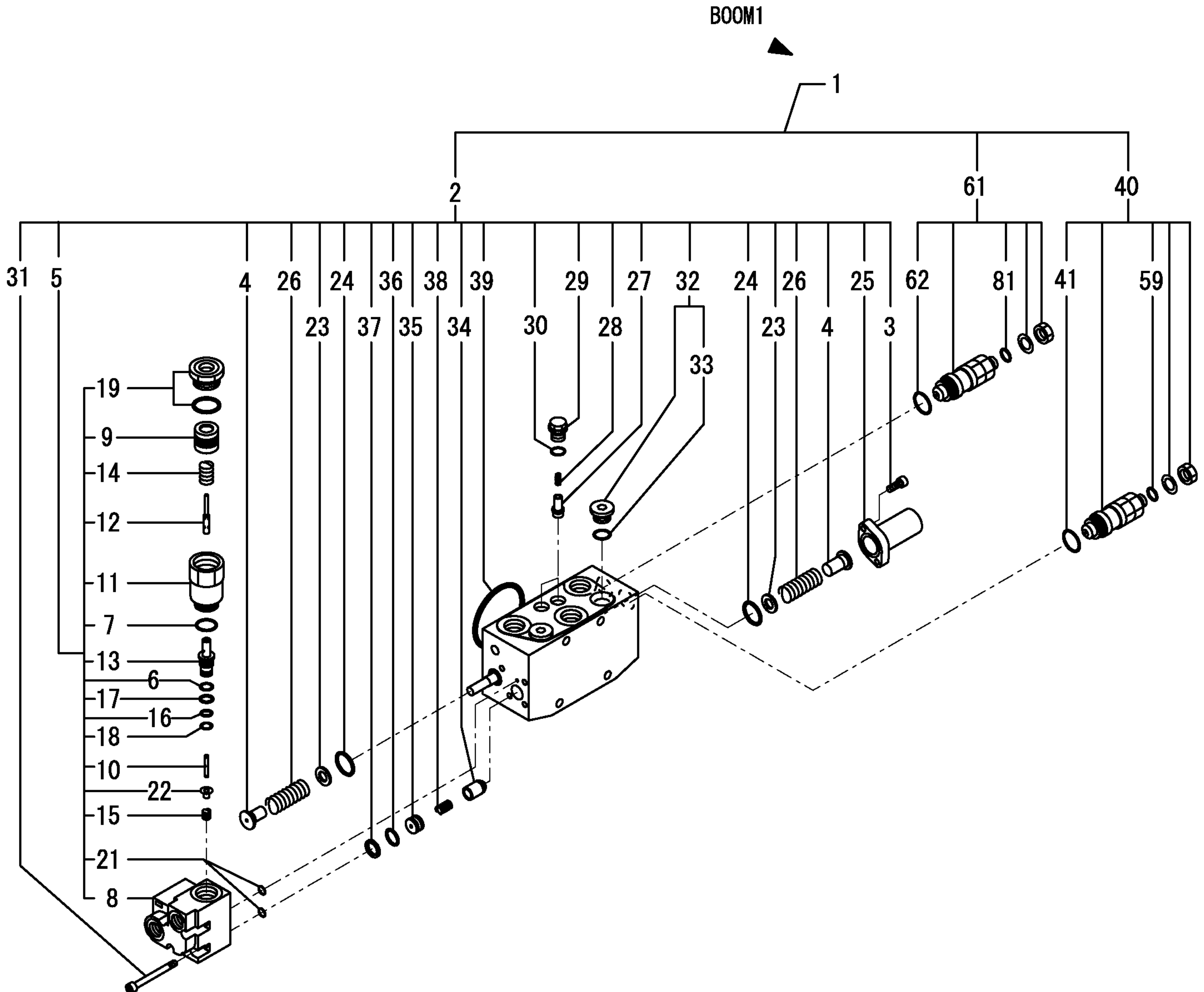
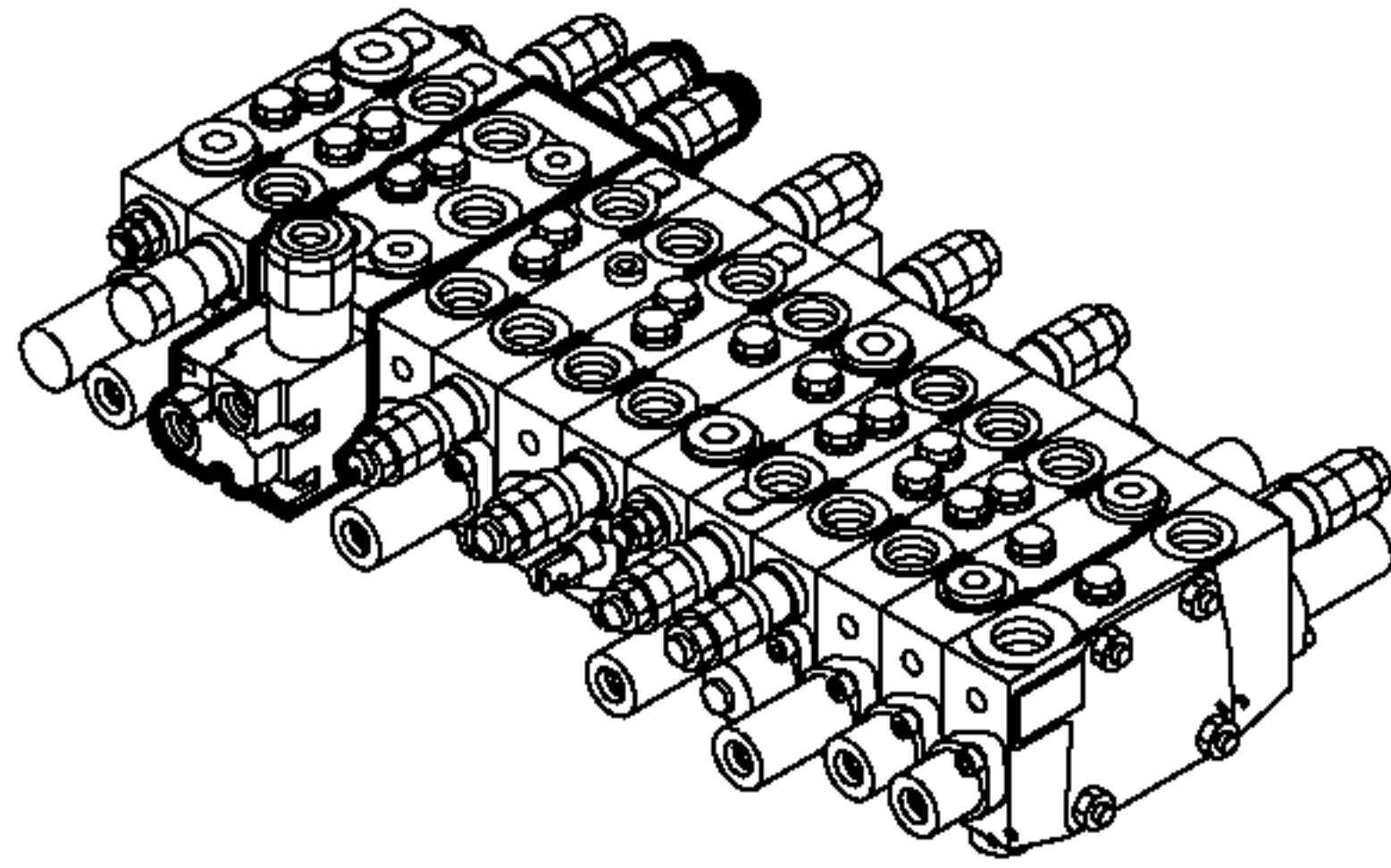
CONTROL VALVE ASSY
172489-74100
Fig. 49 REF. NO. 1
INC Fig. 49 REF. NO. 2~69
Fig. 50~55

REFER TO Fig. 27



1,2,,172488-74510,, "BOOM SECTION ASSY",1,,,,,,,,,,,,,
2,3,,172488-74190,, "BOOM-1 SECTION",1,,,,,,,,,,,,,
3,4,,172151-74060,, "BOLT, SOCKET HEAD",2,,,,,,,,,,,,,
4,4,,172478-74180,, "SEAT, SPRING",2,,,,,,,,,,,,,
5,4,,172488-74200,, "ANTI-DRIFT VALVE",1,,,,,,,,,,,,,
6,4,,172638-73650,, RING,1,,,,,,1,,,,,,,,,,,,,
7,4,,172116-74150,, O-RING,1,,,,,,1,,,,,,,,,,,,,
8,4,,172488-74210,, BODY,1,,,,,,1,,,,,,,,,,,,,
9,4,,172488-74220,, PISTON,1,,,,,,1,,,,,,,,,,,,,
10,4,,172455-74590,, POPPET,1,,,,,,1,,,,,,,,,,,,,
11,4,,172455-74600,, PLUG,1,,,,,,1,,,,,,,,,,,,,
12,4,,172455-74620,, SPOOL,1,,,,,,1,,,,,,,,,,,,,
13,4,,172455-74630,, SLEEVE,1,,,,,,1,,,,,,,,,,,,,
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15,4,,172455-74650,, SPRING,1,,,,,,1,,,,,,,,,,,,,
16,4,,172455-74660,, PACKING,1,,,,,,1,,,,,,,,,,,,,
17,4,,172455-74670,, PACKING,1,,,,,,1,,,,,,,,,,,,,
18,4,,172455-74680,, "BACK UP RING",1,,,,,,1,,,,,,,,,,,,,
19,4,,172187-74690,, PLUG,1,,,,,,1,,,,,,,,,,,,,
20,4,,172312-74770,, O-RING,1,,,,,,1,,,,,,,,,,,,,
21,4,,172455-74690,, PACKING,2,,,,,,1,,,,,,,,,,,,,
22,4,,172455-74720,, "SEAT, SPRING",1,,,,,,1,,,,,,,,,,,,,
23,4,,172175-74220,, "SEAT, SPRING",2,,,,,,,,,,,,,
24,4,,172151-74320,, O-RING,2,,,,,,,,,,,,,
25,4,,172455-74390,, CAP,1,,,,,,,,,,,,,
26,4,,172455-74410,, SPRING,2,,,,,,,,,,,,,
27,4,,172455-74420,, POPPET,2,,,,,,,,,,,,,
28,4,,172455-74440,, SPRING,2,,,,,,,,,,,,,
29,4,,172455-74450,, PLUG,2,,,,,,,,,,,,,
30,4,,172455-74460,, PACKING,2,,,,,,,,,,,,,
31,4,,172455-74530,, "BOLT, SOCKET HEAD",5,,,,,,,,,,,,,
32,4,,172187-74540,, PLUG,2,,,,,,,,,,,,,
33,4,,24315-000140,, "O-RING 1B P-14.0",2,,,,,,,,,,,,,
34,4,,172455-74550,, POPPET,1,,,,,,,,,,,,,
35,4,,172455-74560,, SPACER,1,,,,,,,,,,,,,
36,4,,172455-74570,, O-RING,1,,,,,,,,,,,,,
37,4,,172455-74580,, "RING, BACK-UP",1,,,,,,,,,,,,,
38,4,,172187-74630,, SPRING,1,,,,,,,,,,,,,
39,4,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
40,3,,172478-74400,, "VALVE, RELIEF 280/40",1,,,,,,,,,,,,,
41,4,,172116-74150,, O-RING,1,,,,,,,,,,,,,
60,4,,24315-000100,, "O-RING 1B P-10.0",1,,,,,,,,,,,,,
61,3,,172478-74420,, "VALVE, RELIEF 300/40",1,,,,,,,,,,,,,
62,4,,172116-74150,, O-RING,1,,,,,,,,,,,,,
81,4,,24315-000100,, "O-RING 1B P-10.0",1,,,,,,,,,,,,,

CONTROL VALVE ASSY
172489-74100
Fig. 49 REF. NO. 1
INC Fig. 49 REF. NO. 2~69
Fig. 50~55



1,2,,172455-74130,, "DRIVE,R SECTION ASSY",1,,,,,,,,,,,,,
2,3,,172151-74060,, "BOLT, SOCKET HEAD",2,,,,,,,,,,,,,
3,3,,172113-74170,, SPRING,1,,,,,,,,,,,,,
4,3,,172113-74190,, SPRING,1,,,,,,,,,,,,,
5,3,,172116-74190,, "PLATE, SEAL",2,,,,,,,,,,,,,
6,3,,172823-74240,, SCREW,2,,,,,,,,,,,,,
7,3,,172187-74410,, "POPPET, VALVE",1,,,,,,,,,,,,,
8,3,,172455-74450,, PLUG,1,,,,,,,,,,,,,
9,3,,172455-74460,, PACKING,1,,,,,,,,,,,,,
10,3,,172455-74730,, CAP,1,,,,,,,,,,,,,
11,3,,172455-74740,, "CAP SCREW",1,,,,,,,,,,,,,
12,3,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
13,3,,933166-80520,, WIPER,2,,,,,,,,,,,,,
14,3,,933171-80510,, "SEAT, SPRING",2,,,,,,,,,,,,,
15,3,,933171-80610,, O-RING,2,,,,,,,,,,,,,
16,2,,172488-74520,, "INLET SECTION ASSY",1,,,,,,,,,,,,,
17,3,,172187-74160,, "VALVE, RELIEF",2,,,,,,,,,,,,,
18,4,,172116-74150,, O-RING,4,,,,,,,,,,,,,
19,3,,172488-74230,, "INLET SECTION",1,,,,,,,,,,,,,
20,4,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
21,4,,172478-74180,, "SEAT,SPRING",1,,,,,,,,,,,,,
22,4,,172175-74220,, "SEAT, SPRING",1,,,,,,,,,,,,,
23,4,,172488-74240,, "CAP ASSY",1,,,,,,,,,,,,,
24,4,,172151-74320,, O-RING,2,,,,,,,,,,,,,
25,4,,172422-74330,, PLUG,1,,,,,,,,,,,,,
26,4,,172455-74470,, SPRING,1,,,,,,,,,,,,,
27,4,,172455-74480,, CAP,1,,,,,,,,,,,,,
28,4,,172455-74520,, PISTON,1,,,,,,,,,,,,,
29,4,,24321-000700,, "O-RING 1A G70.0,NBR",2,,,,,,,,,,,,,

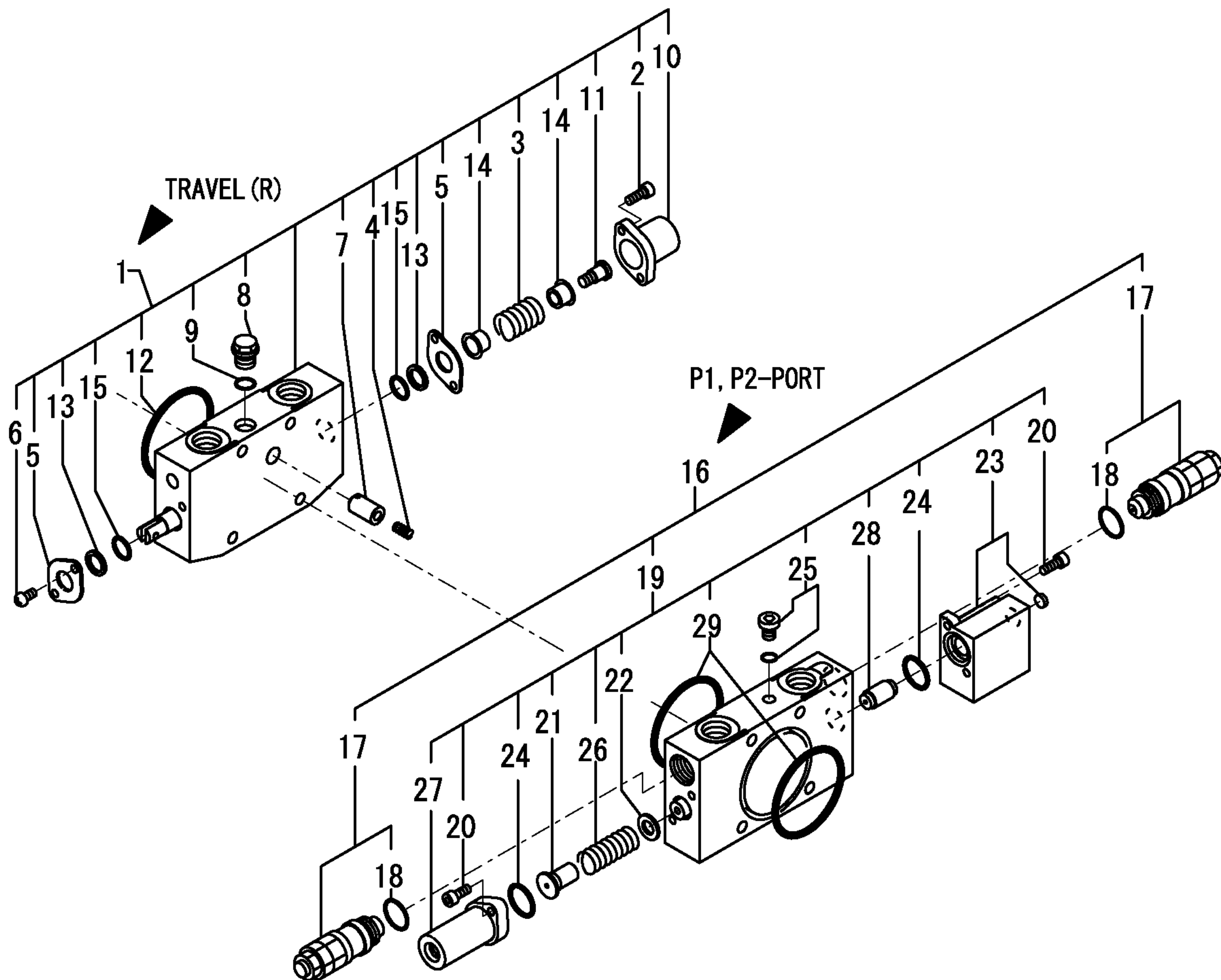
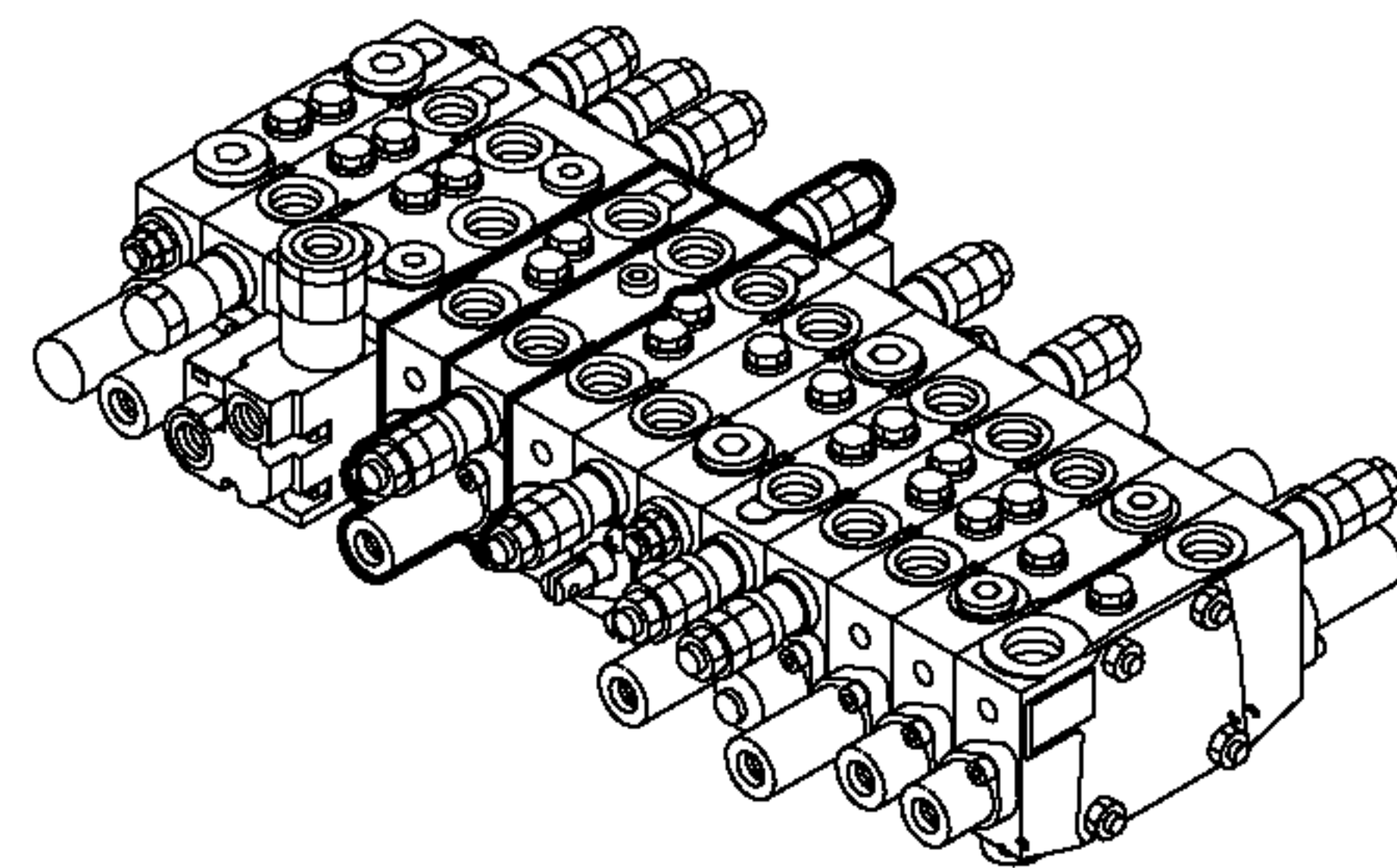
CONTROL VALVE ASSY

172489-74100

Fig. 49 REF. NO. 1

INC Fig. 49 REF. NO. 2~69

Fig. 50~55



1,2,,172455-74150,, "DRIVE, L SECTION ASSY",1,,,,,,,,,,,,,
2,3,,172151-74060,, "BOLT, SOCKET HEAD",2,,,,,,,,,,,,,
3,3,,172113-74170,, SPRING,1,,,,,,,,,,,,,
4,3,,172116-74190,, "PLATE, SEAL",2,,,,,,,,,,,,,
5,3,,172823-74240,, SCREW,2,,,,,,,,,,,,,
6,3,,172455-74450,, PLUG,1,,,,,,,,,,,,,
7,3,,172455-74460,, PACKING,1,,,,,,,,,,,,,
8,3,,172455-74730,, CAP,1,,,,,,,,,,,,,
9,3,,172455-74740,, "CAP SCREW",1,,,,,,,,,,,,,
10,3,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
11,3,,933166-80520,, WIPER,2,,,,,,,,,,,,,
12,3,,933171-80510,, "SEAT, SPRING",2,,,,,,,,,,,,,
13,3,,933171-80610,, O-RING,2,,,,,,,,,,,,,
14,2,,172488-74580,, "OFFSET SECTION,CRANE",1,,,,,,,,,,,,,
15,3,,172488-74350,, "OFF SET SEC",1,,,,,,,,,,,,,
16,4,,172151-74060,, "BOLT, SOCKET HEAD",2,,,,,,,,,,,,,
17,4,,172113-74170,, SPRING,1,,,,,,,,,,,,,
18,4,,172116-74190,, "PLATE, SEAL",2,,,,,,,,,,,,,
19,4,,172823-74240,, SCREW,2,,,,,,,,,,,,,
20,4,,172455-74420,, POPPET,1,,,,,,,,,,,,,
21,4,,172455-74440,, SPRING,1,,,,,,,,,,,,,
22,4,,172455-74450,, PLUG,1,,,,,,,,,,,,,
23,4,,172455-74460,, PACKING,1,,,,,,,,,,,,,
24,4,,172455-74730,, CAP,1,,,,,,,,,,,,,
25,4,,172455-74740,, "CAP SCREW",1,,,,,,,,,,,,,
26,4,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
27,4,,933166-80520,, WIPER,2,,,,,,,,,,,,,
28,4,,933171-80510,, "SEAT, SPRING",2,,,,,,,,,,,,,
29,4,,933171-80610,, O-RING,2,,,,,,,,,,,,,
30,3,,172478-74400,, "VALVE,RELIEF 280/40",2,,,,,,,,,,,,,
31,4,,172116-74150,, O-RING,2,,,,,,,,,,,,,
50,4,,24315-000100,, "O-RING 1B P-10.0",2,,,,,,,,,,,,,

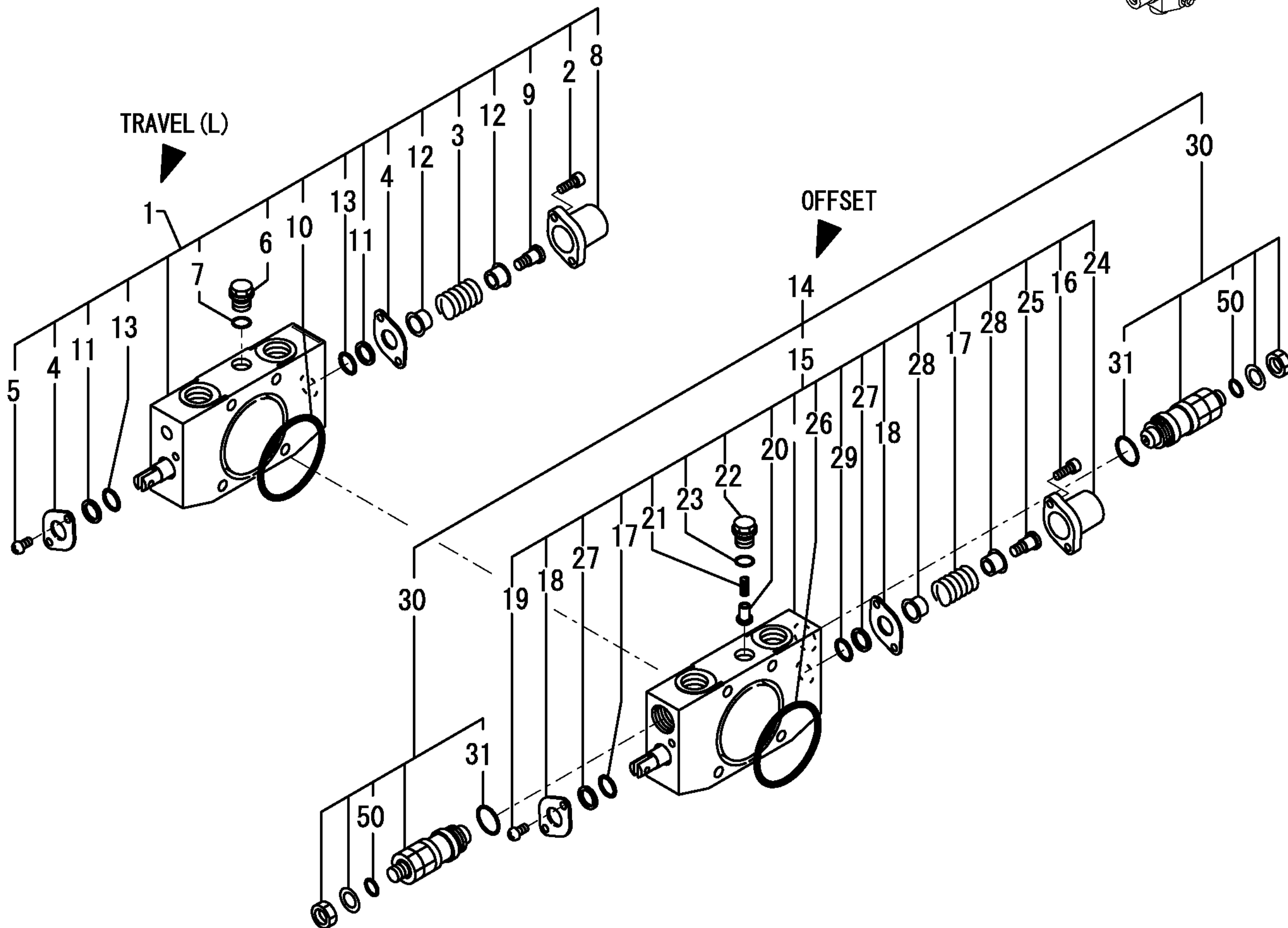
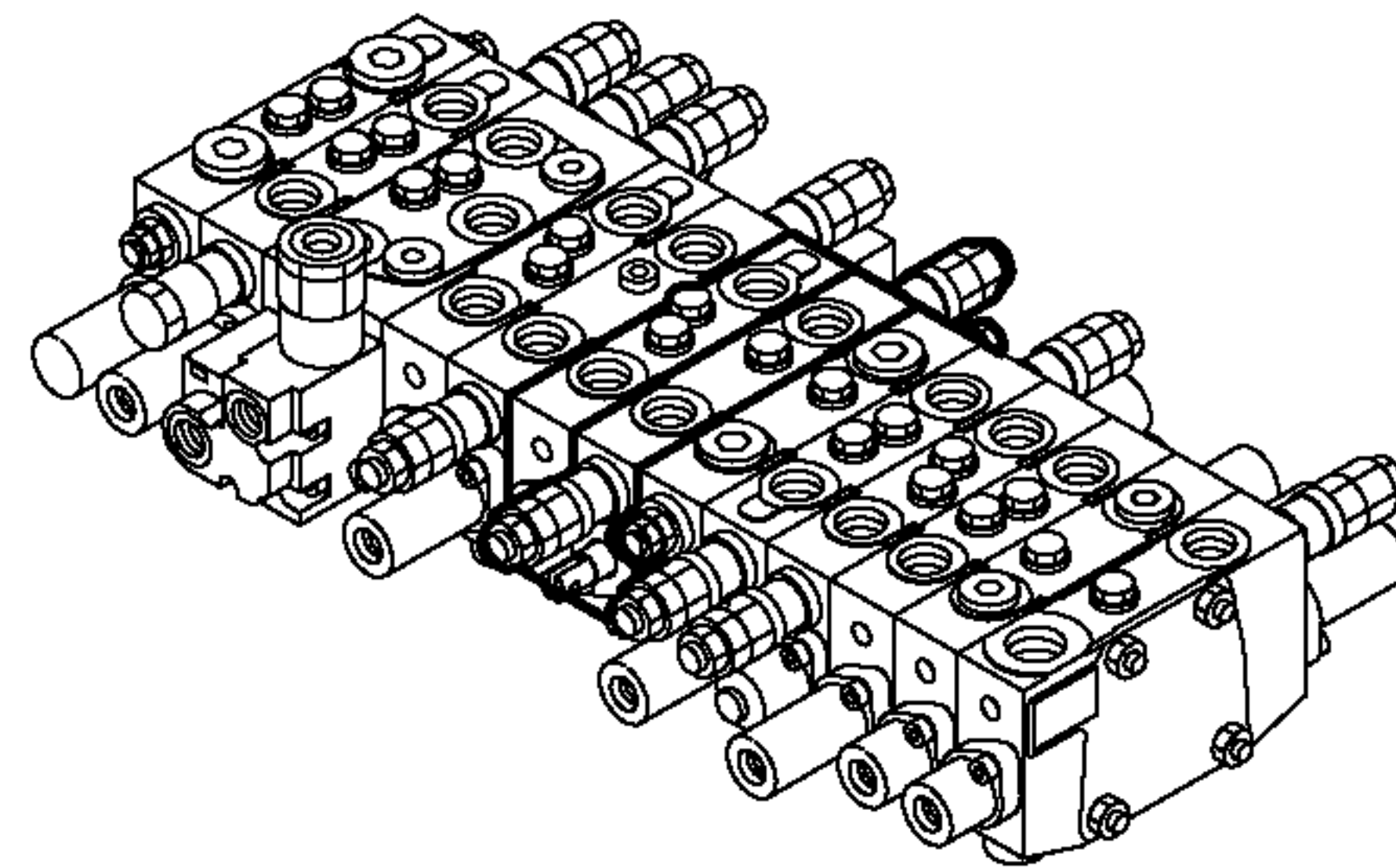
CONTROL VALVE ASSY

172489-74100

Fig. 49 REF. NO. 1

INC Fig. 49 REF. NO. 2~69

Fig. 50~55



1,2,,172489-74260,, "VALVE ASSY,SECTION",1,,,,,,,,,,,,,
2,3,,172489-74200,, "VALVE ASSY,SECTION",1,,,,,,,,,,,,,
3,4,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
4,4,,172478-74180,, "SEAT, SPRING",2,,,,,,,,,,,,,
5,4,,172175-74220,, "SEAT, SPRING",2,,,,,,,,,,,,,
6,4,,172151-74320,, O-RING,2,,,,,,,,,,,,,
7,4,,172455-74390,, CAP,2,,,,,,,,,,,,,
8,4,,172455-74410,, SPRING,2,,,,,,,,,,,,,
9,4,,172455-74420,, POPPET,2,,,,,,,,,,,,,
10,4,,172455-74440,, SPRING,2,,,,,,,,,,,,,
11,4,,172455-74450,, PLUG,2,,,,,,,,,,,,,
12,4,,172455-74460,, PACKING,2,,,,,,,,,,,,,
13,3,,172478-74400,, "VALVE,RELIEF 280/40",2,,,,,,,,,,,,,
14,4,,172116-74150,, O-RING,2,,,,,,,,,,,,,
33,4,,24315-000100,, "O-RING 1B P-10.0",2,,,,,,,,,,,,,
34,2,,172478-74610,, "SECTION P.T.O. ASSY",1,,,,,,,,,,,,,
35,3,,172455-74320,, "SHUTOFF VALVE",2,,,,,,,,,,,,,
36,4,,172455-74010,, NUT,2,,,,,,,,,,,,,
37,4,,172455-74020,, PLUG,2,,,,,,,,,,,,,
38,4,,172455-74030,, O-RING,2,,,,,,,,,,,,,
39,4,,172455-74040,, POPPET,2,,,,,,,,,,,,,
40,4,,172116-74150,, O-RING,2,,,,,,,,,,,,,
41,4,,172455-74990,, "SET SCREW",2,,,,,,,,,,,,,
42,3,,172478-74450,, "SECTION P.T.O.",1,,,,,,,,,,,,,
43,4,,172151-74060,, "BOLT, SOCKET HEAD",2,,,,,,,,,,,,,
44,4,,172113-74170,, SPRING,1,,,,,,,,,,,,,
45,4,,172116-74190,, "PLATE, SEAL",2,,,,,,,,,,,,,
46,4,,172823-74240,, SCREW,2,,,,,,,,,,,,,
47,4,,172455-74420,, POPPET,2,,,,,,,,,,,,,
48,4,,172455-74440,, SPRING,2,,,,,,,,,,,,,
49,4,,172455-74450,, PLUG,2,,,,,,,,,,,,,
50,4,,172455-74460,, PACKING,2,,,,,,,,,,,,,
51,4,,172455-74730,, CAP,1,,,,,,,,,,,,,
52,4,,172455-74740,, "CAP SCREW",1,,,,,,,,,,,,,
53,4,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
54,4,,933166-80520,, WIPER,2,,,,,,,,,,,,,
55,4,,933171-80510,, "SEAT, SPRING",2,,,,,,,,,,,,,
56,4,,933171-80610,, O-RING,2,,,,,,,,,,,,,

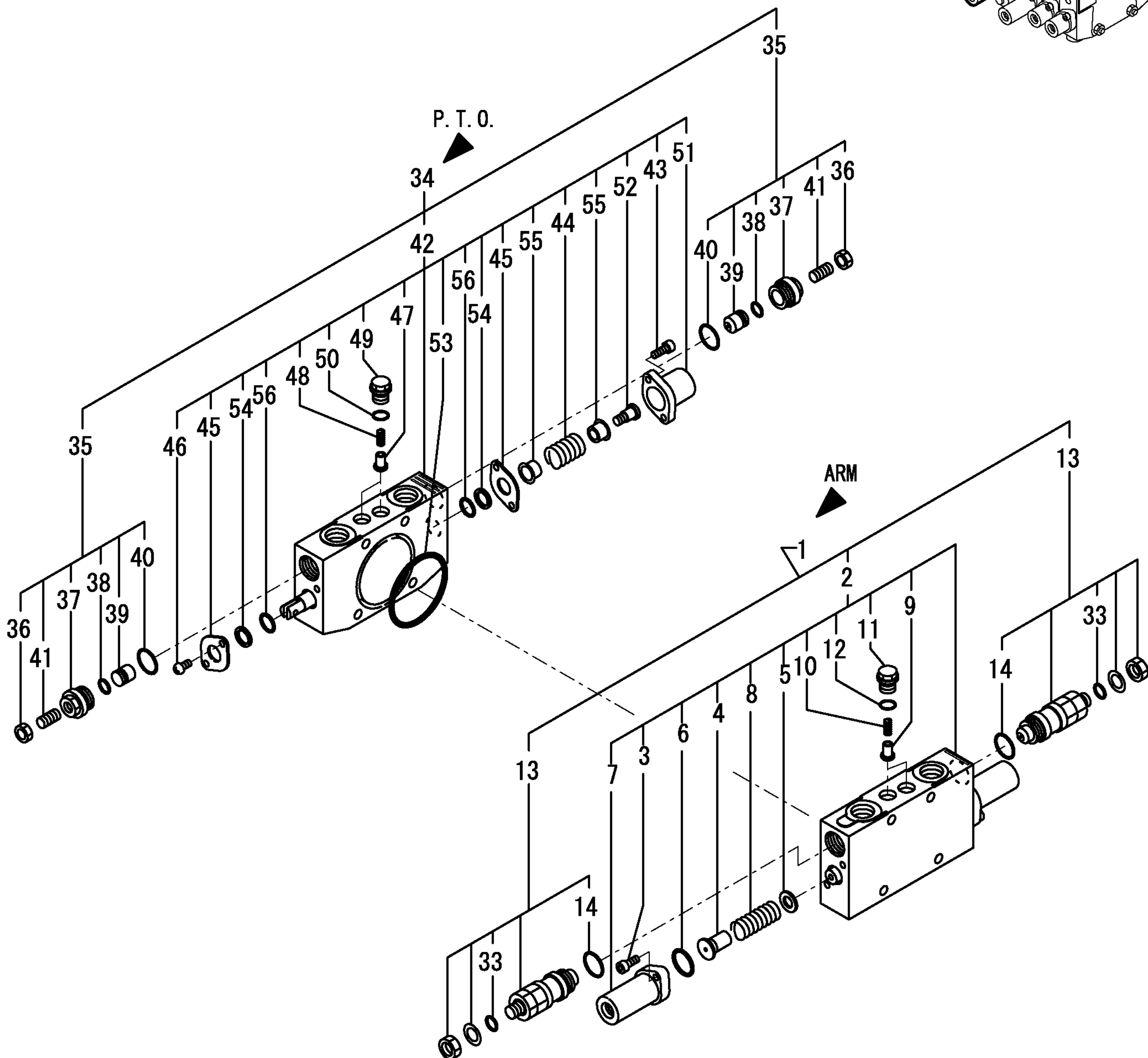
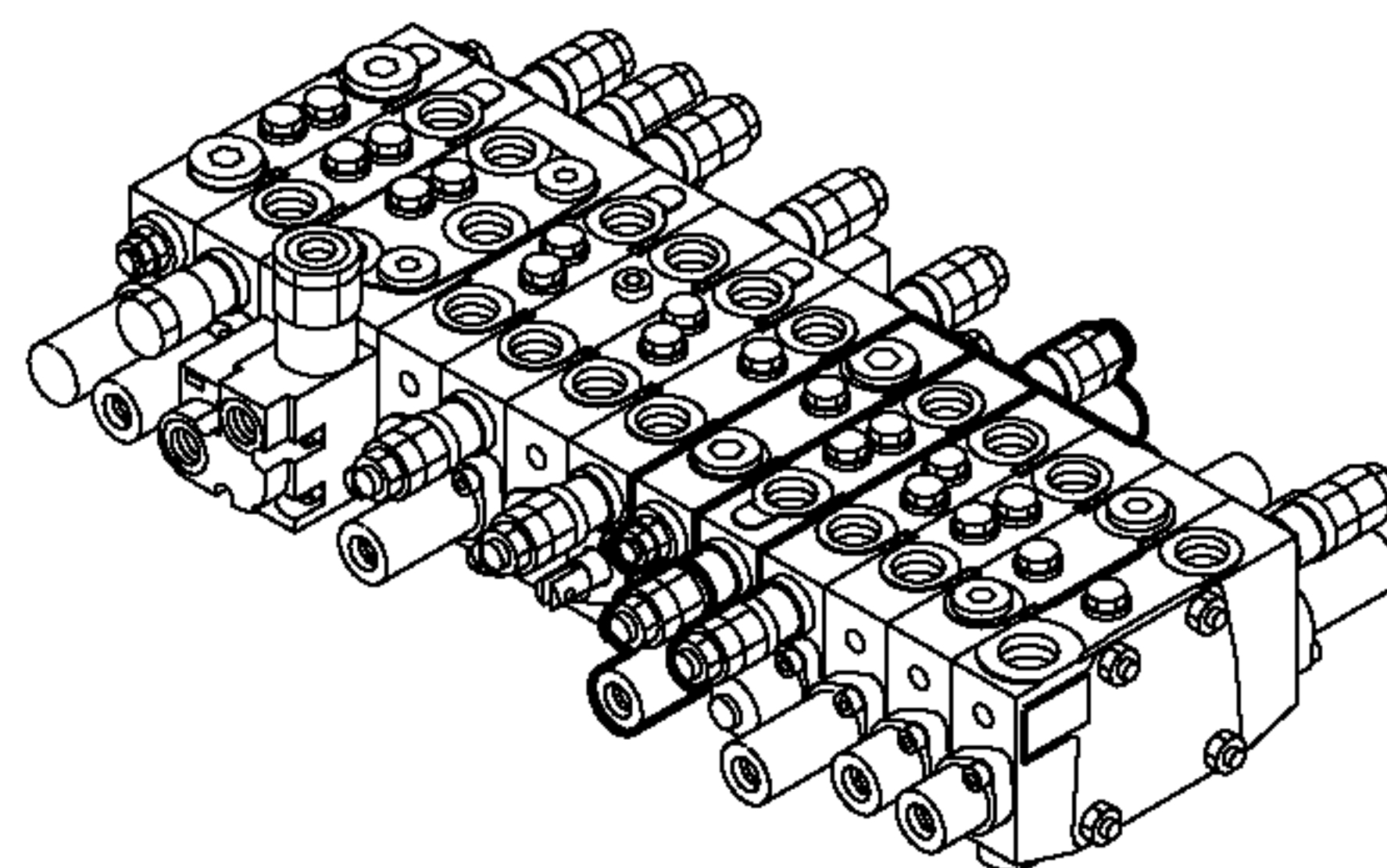
CONTROL VALVE ASSY

172489-74100

Fig. 49 REF. NO. 1

INC Fig. 49 REF. NO. 2~69

Fig. 50~55



1,2,,172455-74190,, "BLADE SECTION ASSY",1,,,,,,,,,,,,,
2,3,,172455-74350,, "RELIEF VALVE",1,,,,,,,,,,,,,
3,4,,172116-74150,, O-RING,1,,,,,,,,,,,,,
22,4,,24315-000100,, "O-RING 1B P-10.0",1,,,,,,,,,,,,,
23,3,,172455-74360,, "BLADE SECTION",1,,,,,,,,,,,,,
24,4,,172151-74060,, "BOLT, SOCKET HEAD",2,,,,,,,,,,,,,
25,4,,172113-74170,, SPRING,1,,,,,,,,,,,,,
26,4,,172113-74190,, SPRING,1,,,,,,,,,,,,,
27,4,,172116-74190,, "PLATE, SEAL",2,,,,,,,,,,,,,
28,4,,172823-74240,, SCREW,2,,,,,,,,,,,,,
29,4,,172187-74410,, "POPPET, VALVE",1,,,,,,,,,,,,,
30,4,,172455-74420,, POPPET,1,,,,,,,,,,,,,
31,4,,172455-74440,, SPRING,1,,,,,,,,,,,,,
32,4,,172455-74450,, PLUG,1,,,,,,,,,,,,,
33,4,,172455-74460,, PACKING,1,,,,,,,,,,,,,
34,4,,172455-74730,, CAP,1,,,,,,,,,,,,,
35,4,,172455-74740,, "CAP SCREW",1,,,,,,,,,,,,,
36,4,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
37,4,,933166-80520,, WIPER,2,,,,,,,,,,,,,
38,4,,933171-80510,, "SEAT, SPRING",2,,,,,,,,,,,,,
39,4,,933171-80610,, O-RING,2,,,,,,,,,,,,,
40,2,,172488-74310,, "TURNING SECTION",1,,,,,,,,,,,,,
41,3,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
42,3,,172478-74180,, "SEAT, SPRING",2,,,,,,,,,,,,,
43,3,,172175-74220,, "SEAT, SPRING",2,,,,,,,,,,,,,
44,3,,172151-74320,, O-RING,2,,,,,,,,,,,,,
45,3,,172488-74320,, "POPPET, VALVE",1,,,,,,,,,,,,,
46,3,,172455-74390,, CAP,2,,,,,,,,,,,,,
47,3,,172455-74410,, SPRING,2,,,,,,,,,,,,,
48,3,,172455-74420,, POPPET,1,,,,,,,,,,,,,
49,3,,172455-74440,, SPRING,2,,,,,,,,,,,,,
50,3,,172455-74450,, PLUG,2,,,,,,,,,,,,,
51,3,,172455-74460,, PACKING,2,,,,,,,,,,,,,
52,3,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
53,2,,172455-74380,, PLUG,1,,,,,,,,,,,,,
54,3,,24315-000180,, "O-RING 1B P-18.0",1,,,,,,,,,,,,,

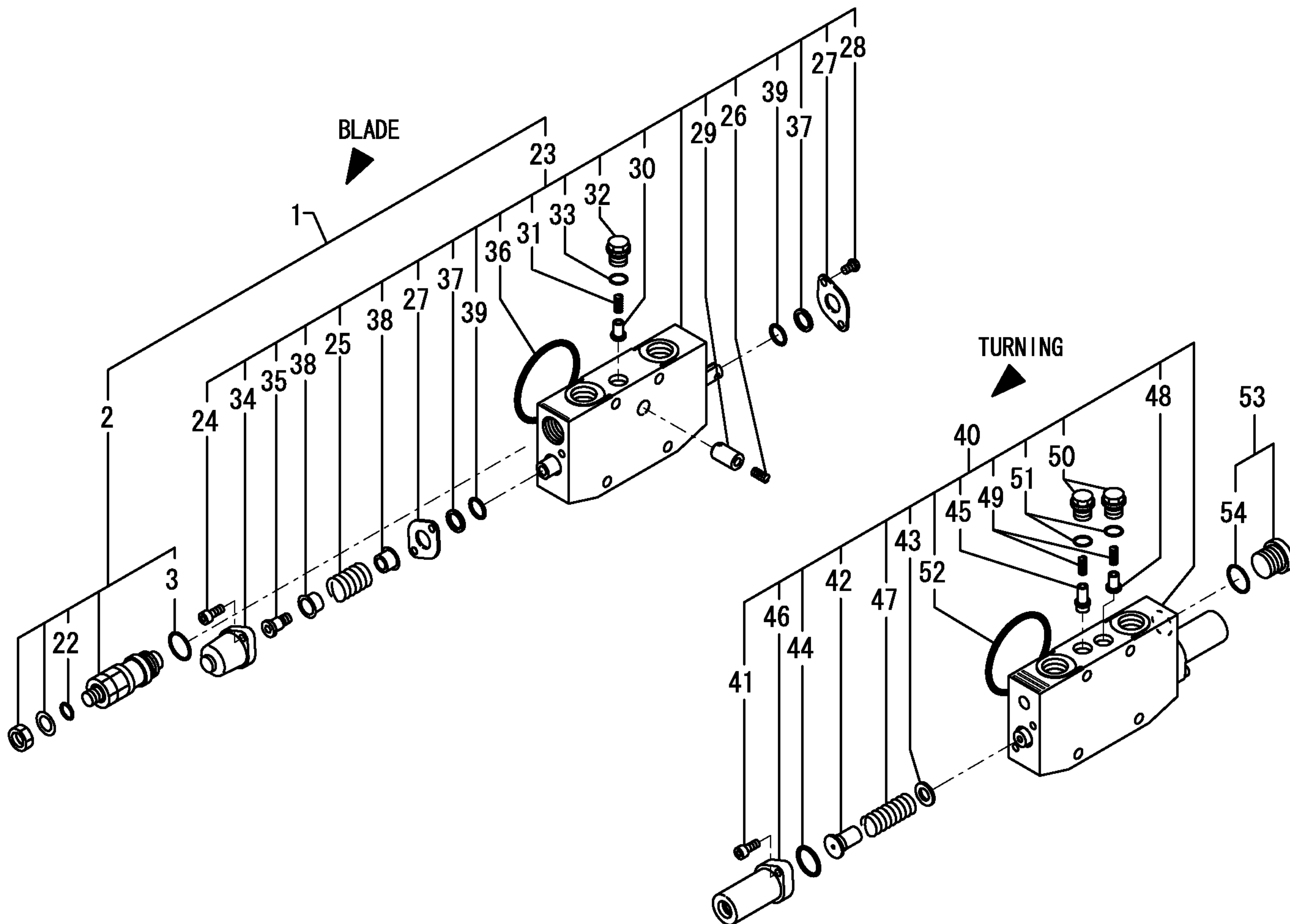
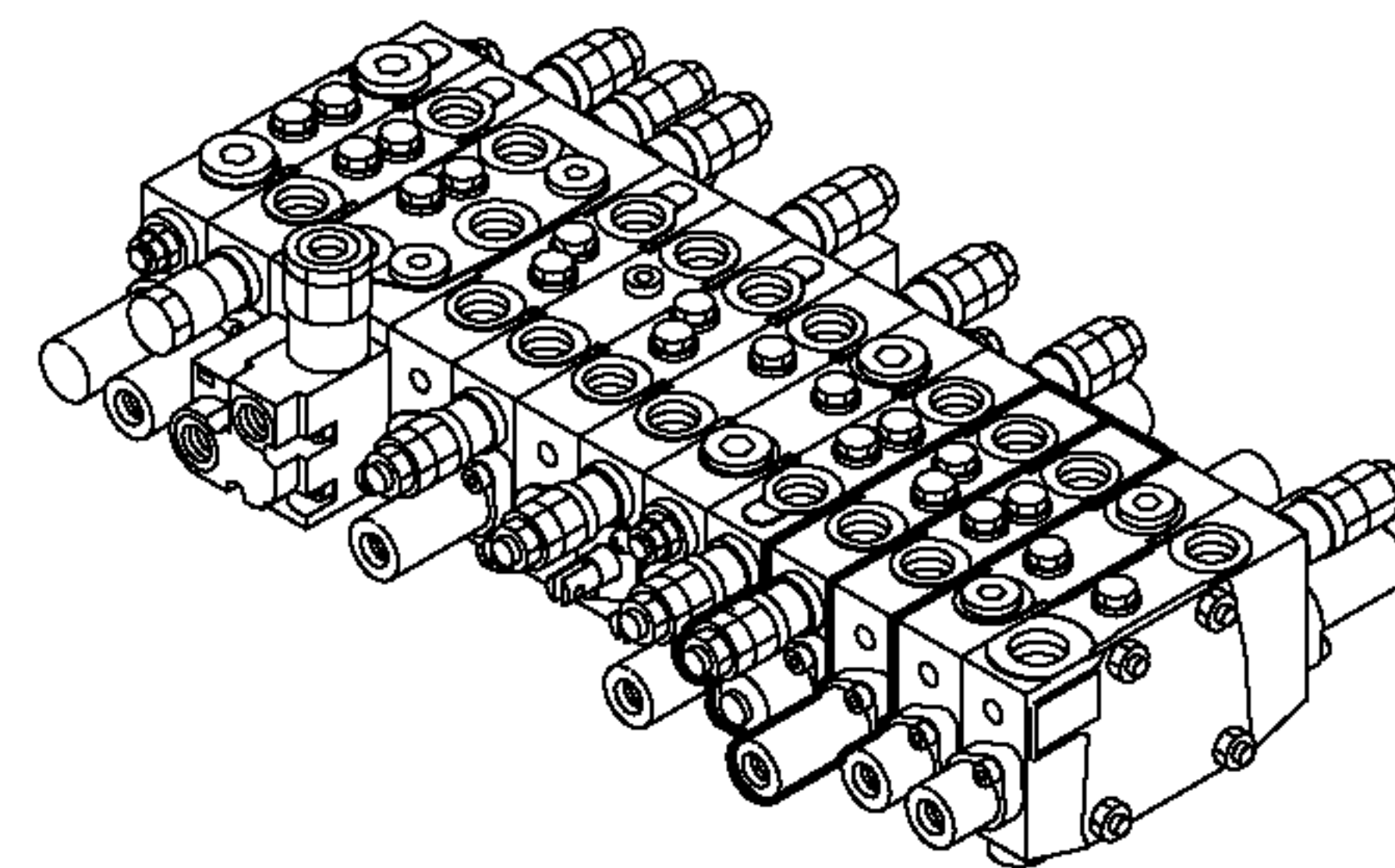
CONTROL VALVE ASSY

172489-74100

Fig. 49 REF. NO. 1

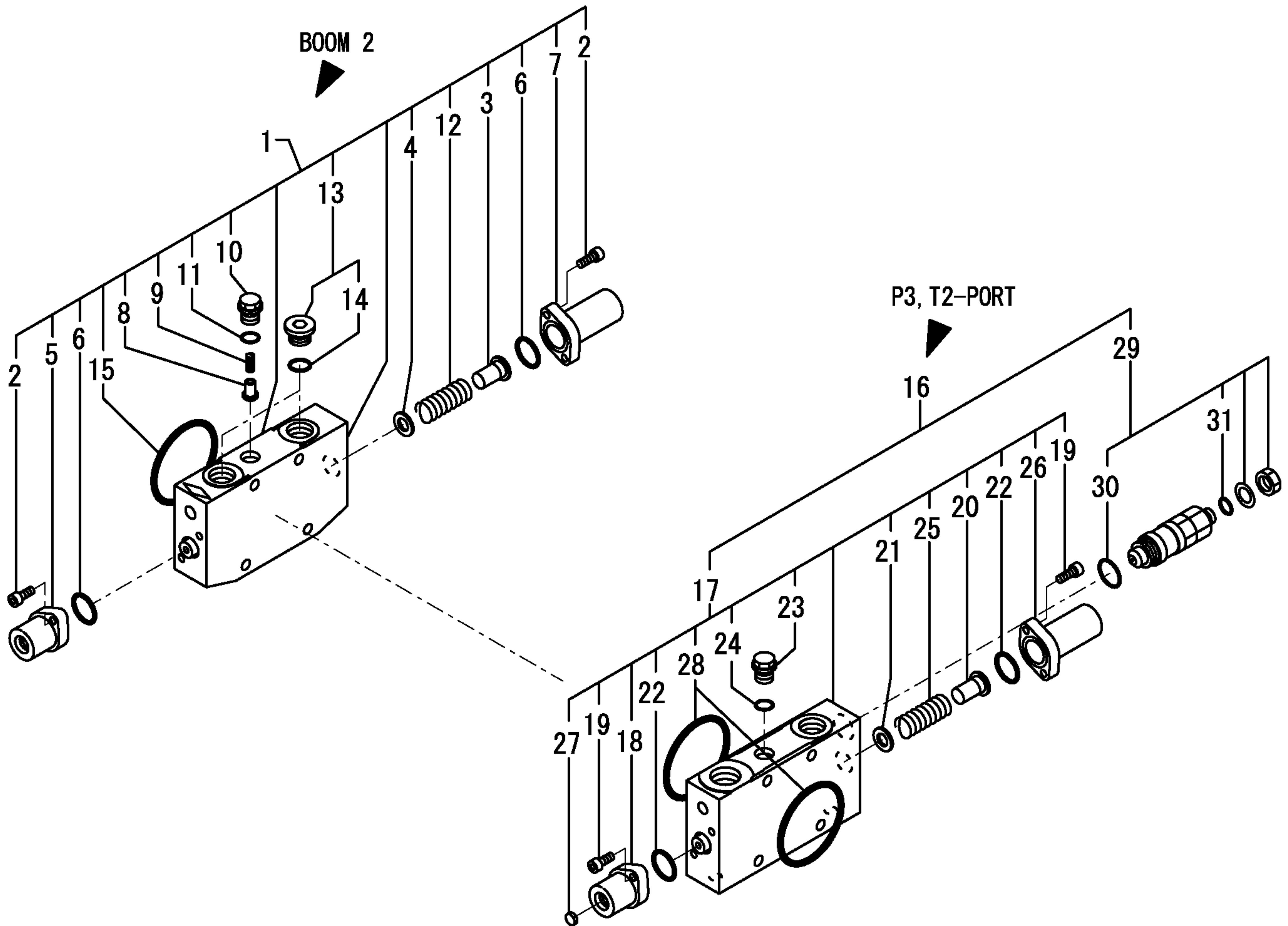
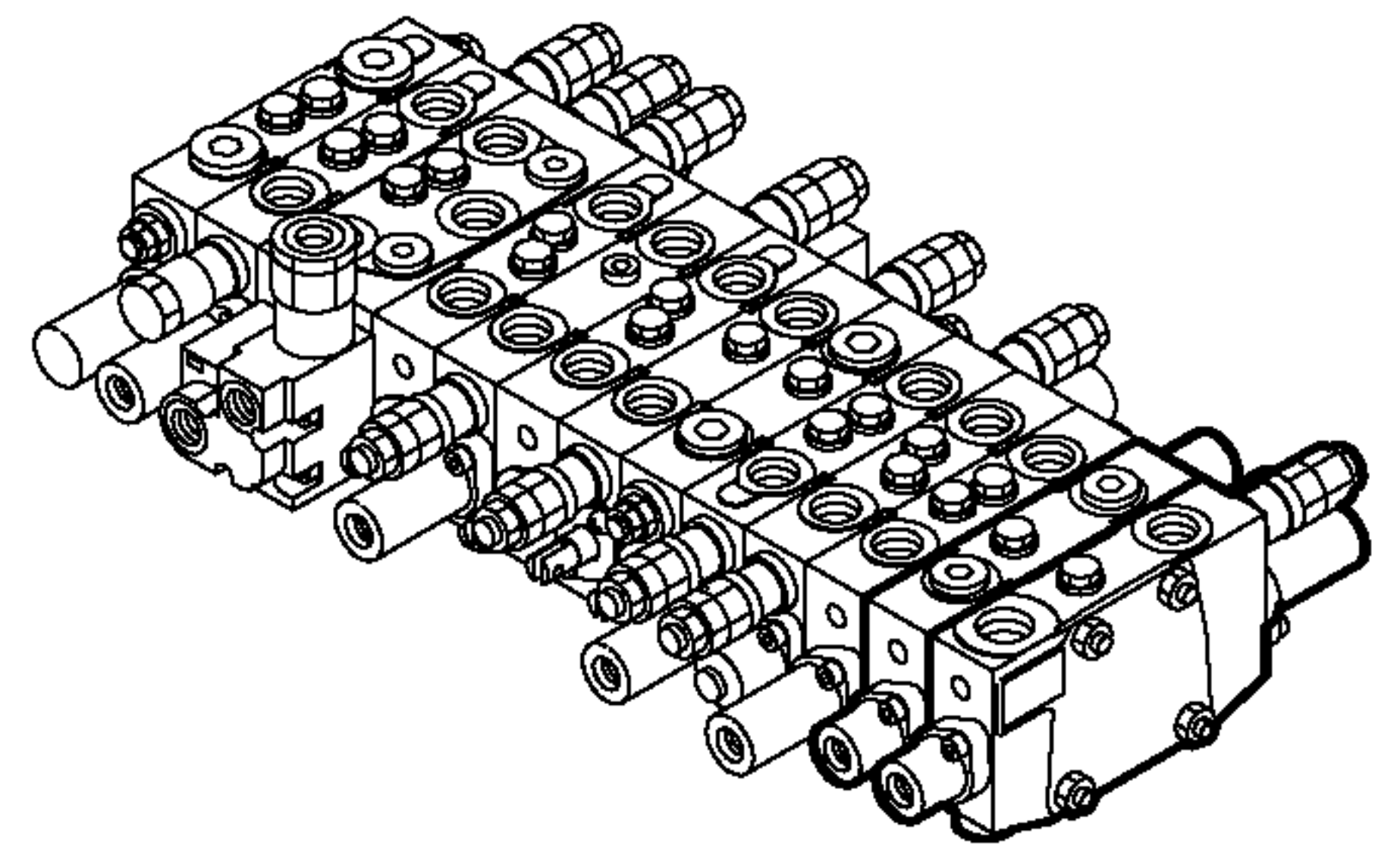
INC Fig. 49 REF. NO. 2~69

Fig. 50~55

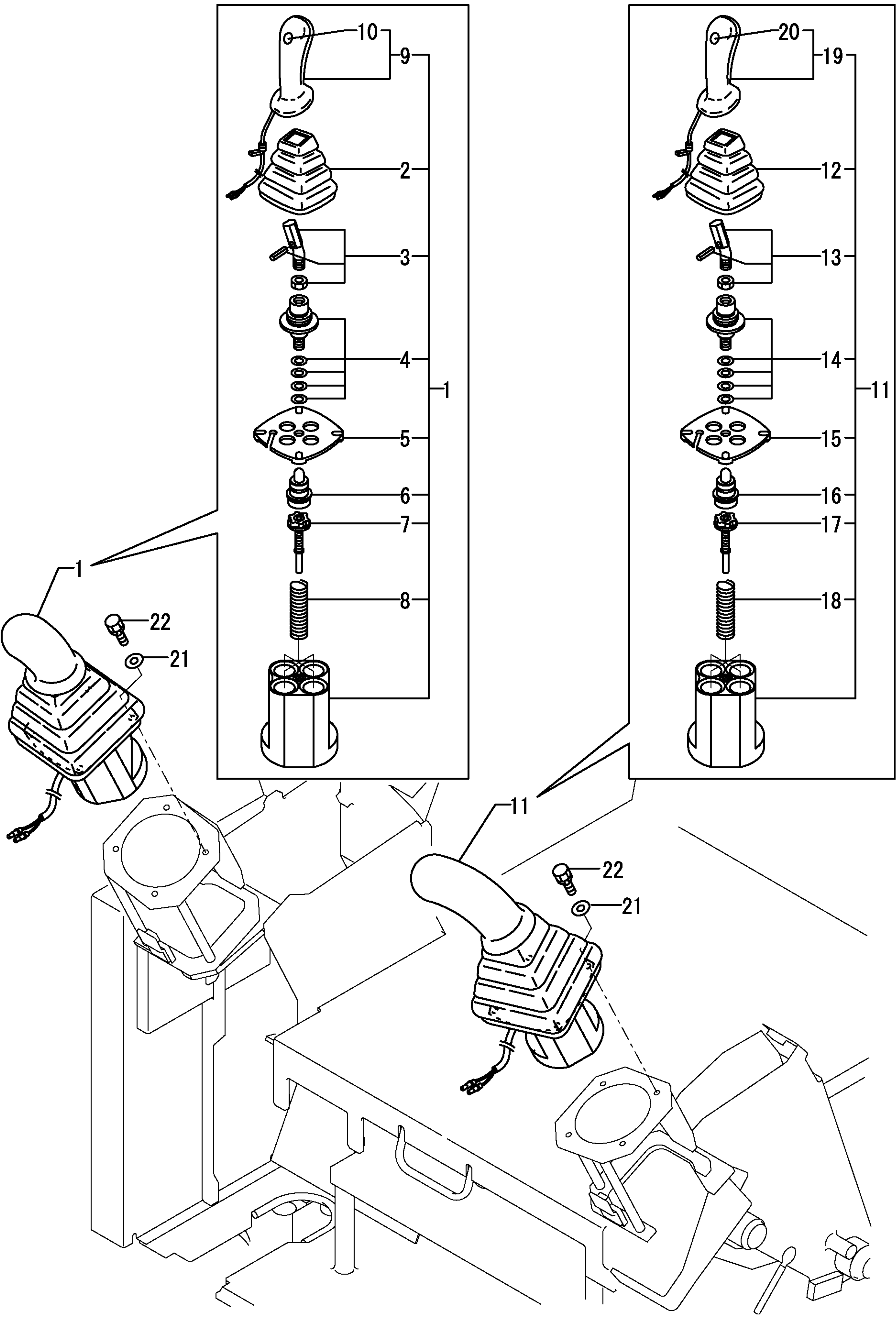


1,2,,172488-74330,, "BOOM-2 SECTION",1,,,,,,,,,,,,,
2,3,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
3,3,,172478-74180,, "SEAT, SPRING",1,,,,,,,,,,,,,
4,3,,172175-74220,, "SEAT, SPRING",1,,,,,,,,,,,,,
5,3,,172445-74280,, "CAP, STEERING WHEEL",1,,,,,,,,,,,,,
6,3,,172151-74320,, O-RING,2,,,,,,,,,,,,,
7,3,,172455-74390,, CAP,1,,,,,,,,,,,,,
8,3,,172455-74420,, POPPET,1,,,,,,,,,,,,,
9,3,,172455-74440,, SPRING,1,,,,,,,,,,,,,
10,3,,172455-74450,, PLUG,1,,,,,,,,,,,,,
11,3,,172455-74460,, PACKING,1,,,,,,,,,,,,,
12,3,,172455-74470,, SPRING,1,,,,,,,,,,,,,
13,3,,172187-74540,, PLUG,2,,,,,,,,,,,,,
14,4,,24315-000140,, "O-RING 1B P-14.0",2,,,,,,,,,,,,,
15,3,,24321-000700,, "O-RING 1A G70.0,NBR",1,,,,,,,,,,,,,
16,2,,172488-74570,, "CONTROL SECTION ASSY",1,,,,,,,,,,,,,
17,3,,172488-74340,, "CONTROL SECTION",1,,,,,,,,,,,,,
18,4,,172455-74050,, CAP,1,,,,,,,,,,,,,
19,4,,172151-74060,, "BOLT, SOCKET HEAD",4,,,,,,,,,,,,,
20,4,,172478-74180,, "SEAT, SPRING",1,,,,,,,,,,,,,
21,4,,172175-74220,, "SEAT, SPRING",1,,,,,,,,,,,,,
22,4,,172151-74320,, O-RING,2,,,,,,,,,,,,,
23,4,,172455-74450,, PLUG,1,,,,,,,,,,,,,
24,4,,172455-74460,, PACKING,1,,,,,,,,,,,,,
25,4,,172455-74470,, SPRING,1,,,,,,,,,,,,,
26,4,,172455-74480,, CAP,1,,,,,,,,,,,,,
27,4,,172455-74510,, FILTER-A,1,,,,,,,,,,,,,
28,4,,24321-000700,, "O-RING 1A G70.0,NBR",2,,,,,,,,,,,,,
29,3,,172478-74380,, "VALVE,RELIEF 210/57",1,,,,,,,,,,,,,
30,4,,172116-74150,, O-RING,1,,,,,,,,,,,,,
31,4,,24315-000100,, "O-RING 1B P-10.0",1,,,,,,,,,,,,,

CONTROL VALVE ASSY
172489-74100
Fig. 49 REF. NO. 1
INC Fig. 49 REF. NO. 2~69
Fig. 50~55

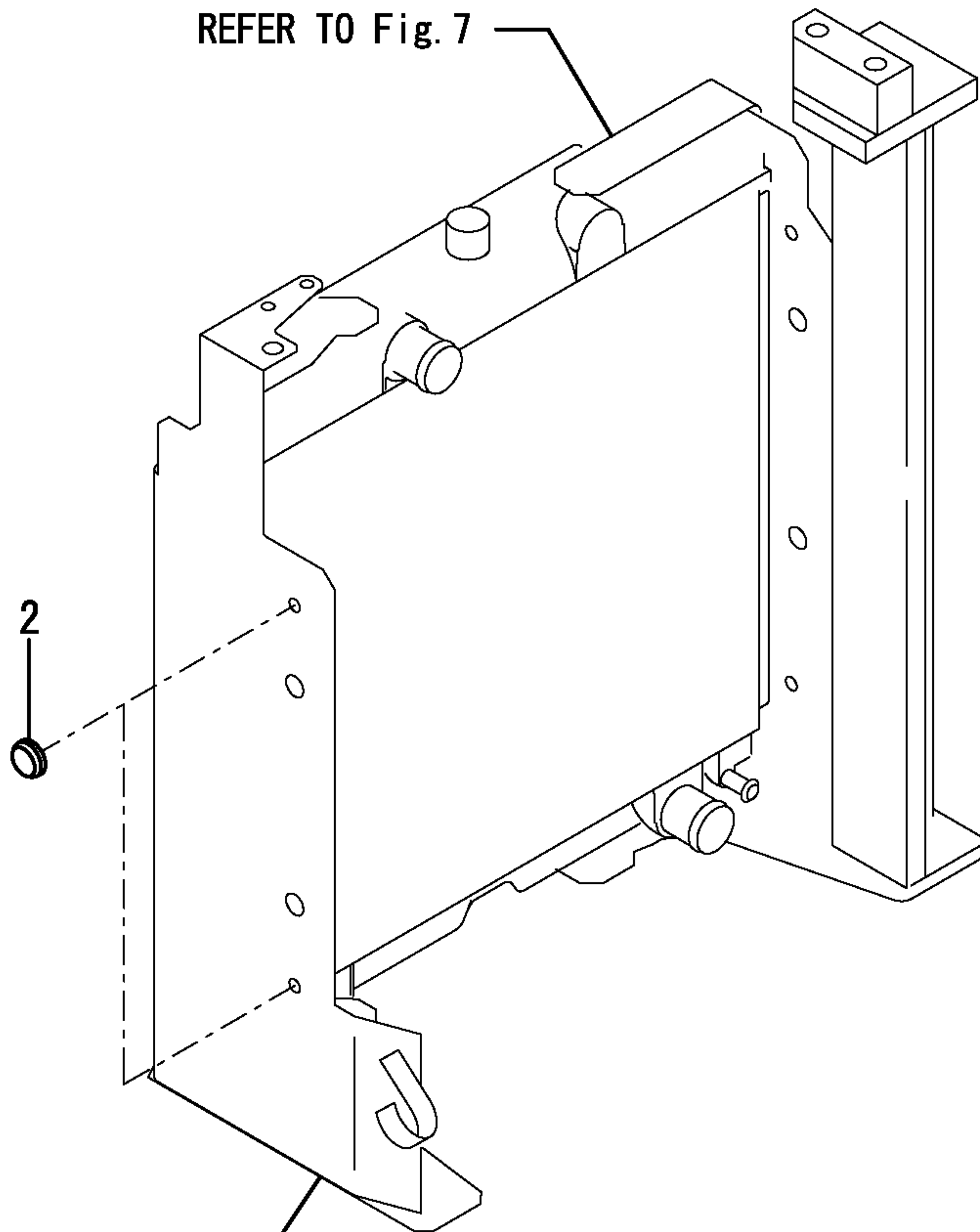


1,1,,172463-74511,, "VALVE ASSY, R.US",1,,,,,,,,,,,,,
2,2,,172441-74030,, BELLOWS,1,,,,,,,,,,,,,
3,2,,172441-74040,, "COMMAND KIT",1,,,,,,,,,,,,,
4,2,,172463-74530,, "CARDAN KIT",1,,,,,,,,,,,,,
5,2,,172463-74540,, "RETAINING PLATE",1,,,,,,,,,,,,,
6,2,,172463-74551,, "PLUNGER KIT",1,,,,,,,,,,,,,
7,2,,172463-74561,, "REGULATION KIT",1,,,,,,,,,,,,,
8,2,,172463-74570,, "SPRING KIT",1,,,,,,,,,,,,,
9,2,,172463-74590,, "HANDLE R",1,,,,,,,,,,,,,
10,3,,172463-74580,, "PUSH BUTTON",1,,,,,,,,,,,,,
11,1,,172478-74700,, "VALVE ASSY (EP",1,,,,,,,,,,,,,
12,2,,172441-74030,, BELLOWS,1,,,,,,,,,,,,,
13,2,,172441-74040,, "COMMAND KIT",1,,,,,,,,,,,,,
14,2,,172463-74530,, "CARDAN KIT",1,,,,,,,,,,,,,
15,2,,172463-74540,, "RETAINING PLATE",1,,,,,,,,,,,,,
16,2,,172463-74551,, "PLUNGER KIT",1,,,,,,,,,,,,,
17,2,,172463-74561,, "REGULATION KIT",1,,,,,,,,,,,,,
18,2,,172463-74570,, "SPRING KIT",1,,,,,,,,,,,,,
19,2,,172463-74590,, "HANDLE R",1,,,,,,,,,,,,,
20,3,,172463-74580,, "PUSH BUTTON",1,,,,,,,,,,,,,
21,1,,22137-060000,, "WASHER 6, POLISHED",8,,,,,,,,,,,,,
22,1,,26013-060202,, "BOLT M 6X 20",8,,,,,,,,,,,,,

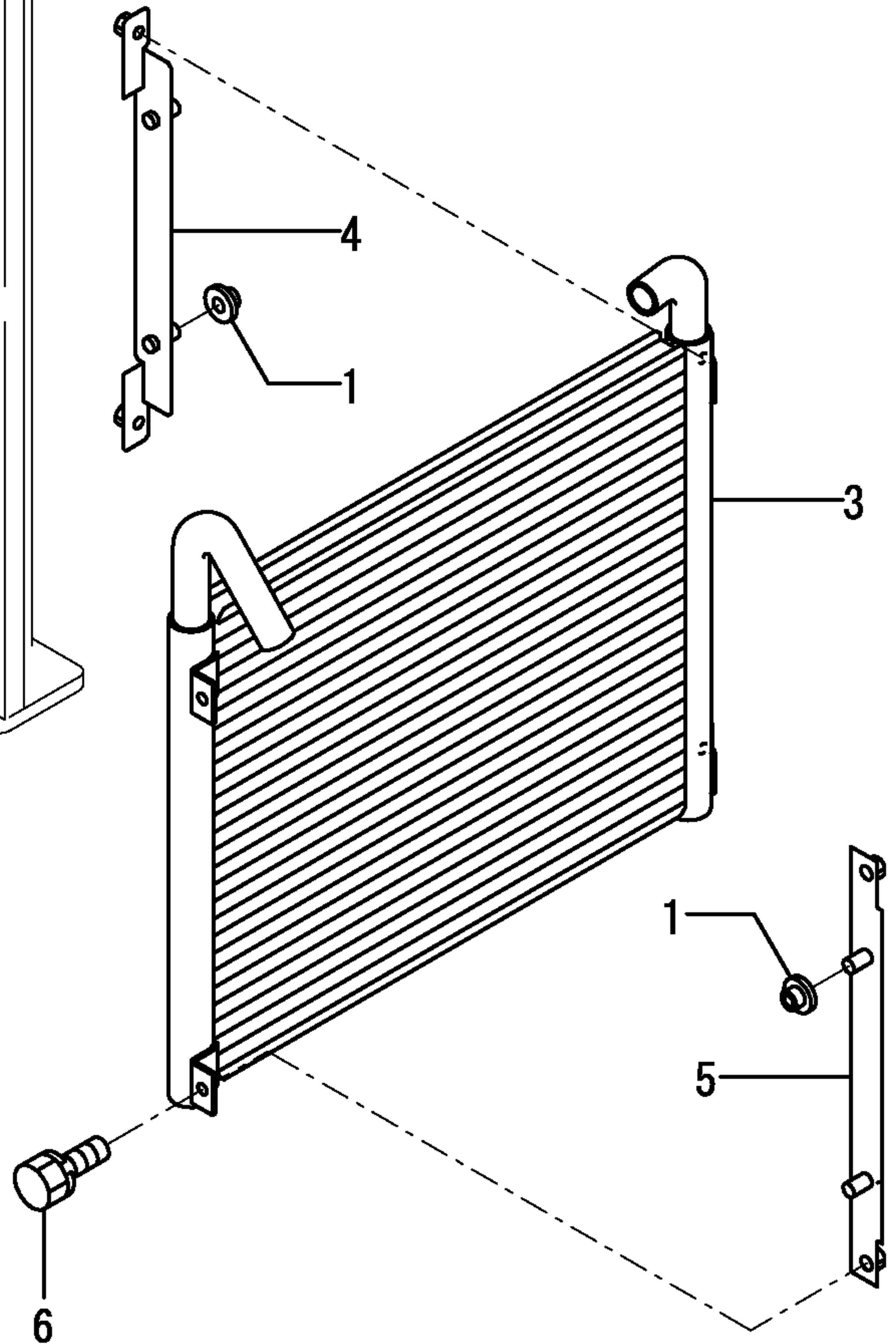


1,1,,172446-13330,, "ABSOBER, SHOCK",4,,,,,,,,,,,,,,,,,,,,,
2,1,,172312-17260,, "GROMMET 22X2.3",2,,,,,,,,,,,,,,,,,,,,,
3,1,,172187-74800,, "OIL COOLER",1,,,,,,,,,,,,,,,,,,,,,
4,1,,172A21-74850,, "BRACKET ASSY, HOC",1,,,,,,,,,,,,,,,,,,,,,
5,1,,172A21-74880,, "BRAKET ASSY, HOC",1,,,,,,,,,,,,,,,,,,,,,
6,1,,26013-080162,, "BOLT W/WASHER M8X16",4,,,,,,,,,,,,,,,,,,,,,

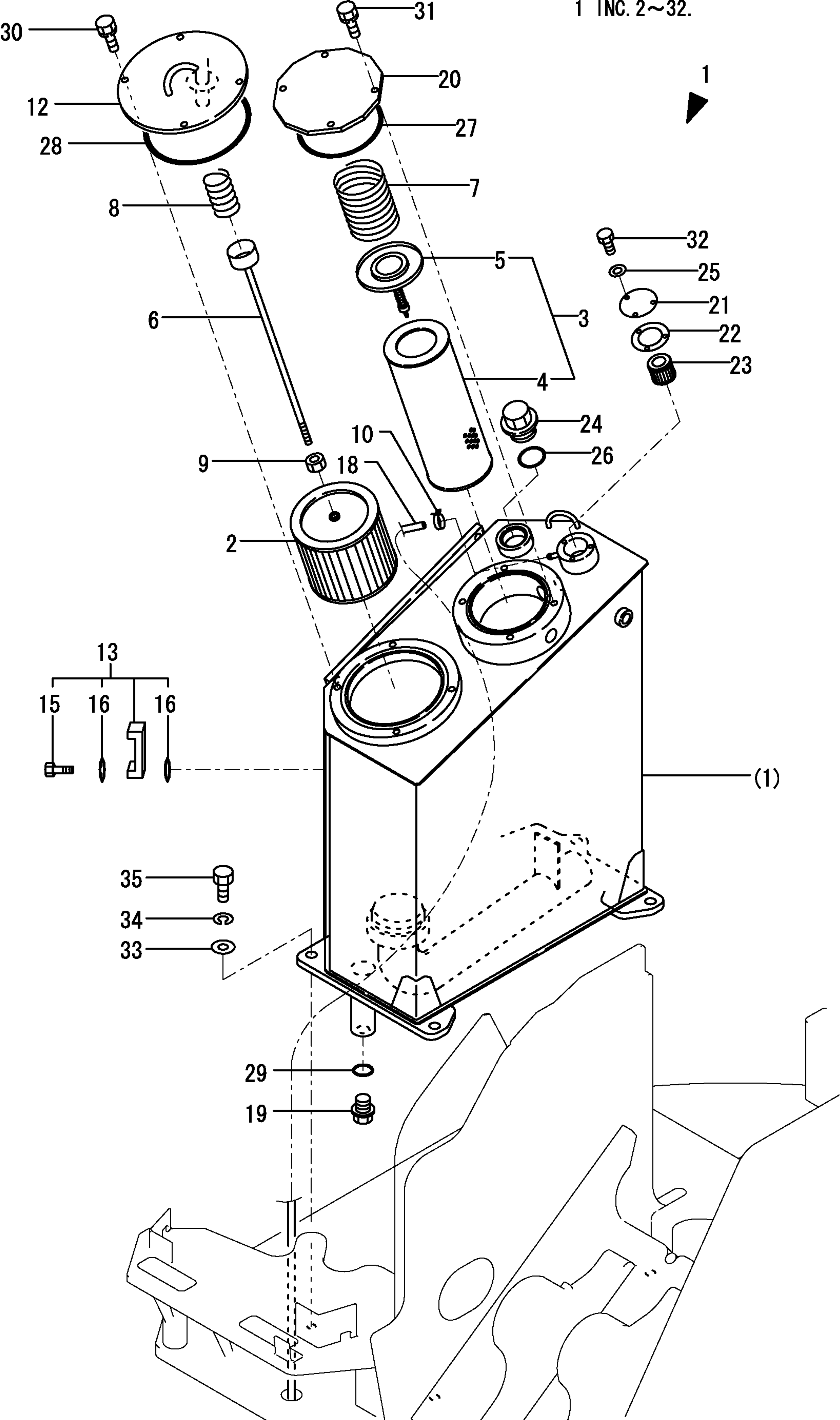
REFER TO Fig. 7



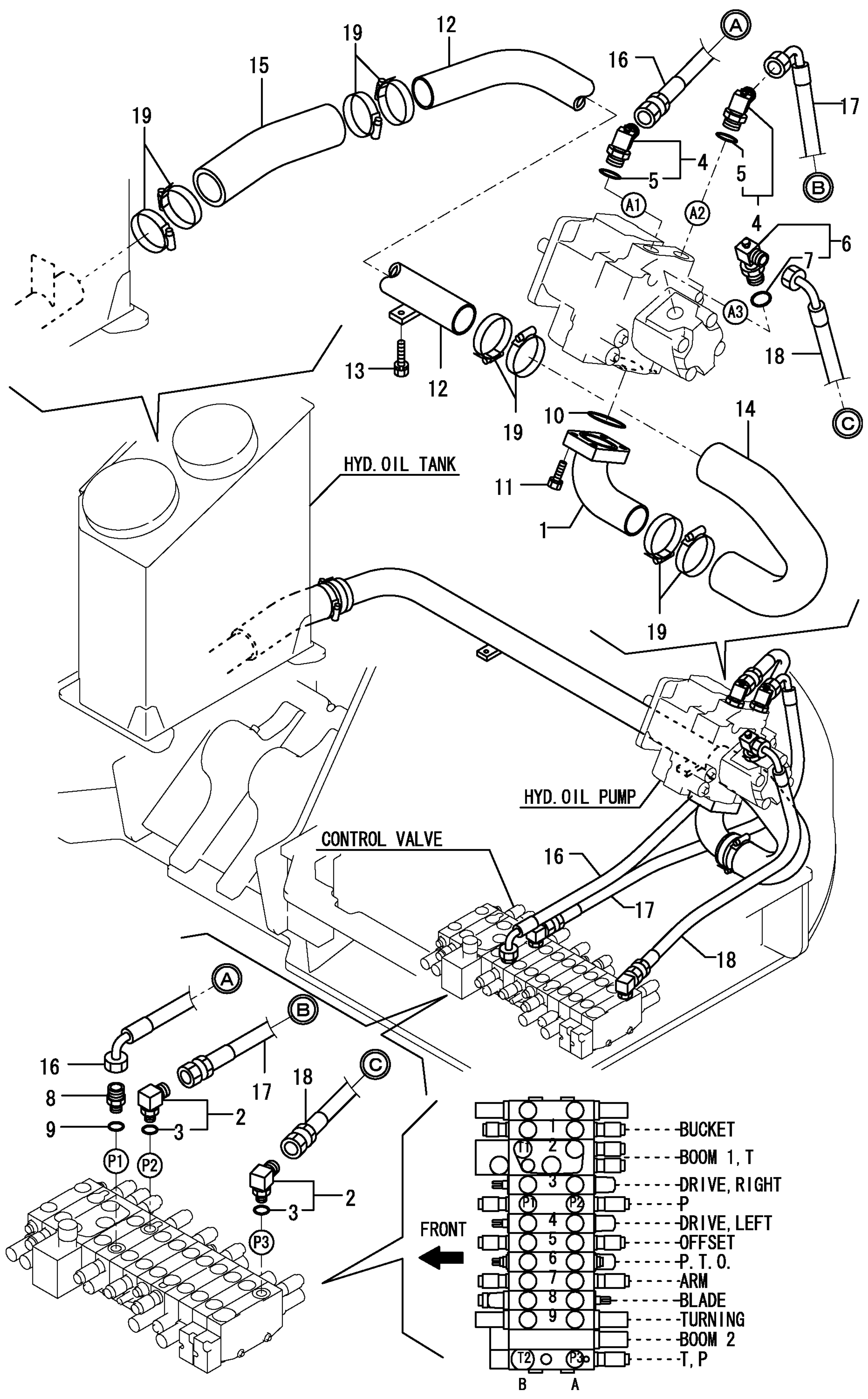
REFER TO Fig. 8



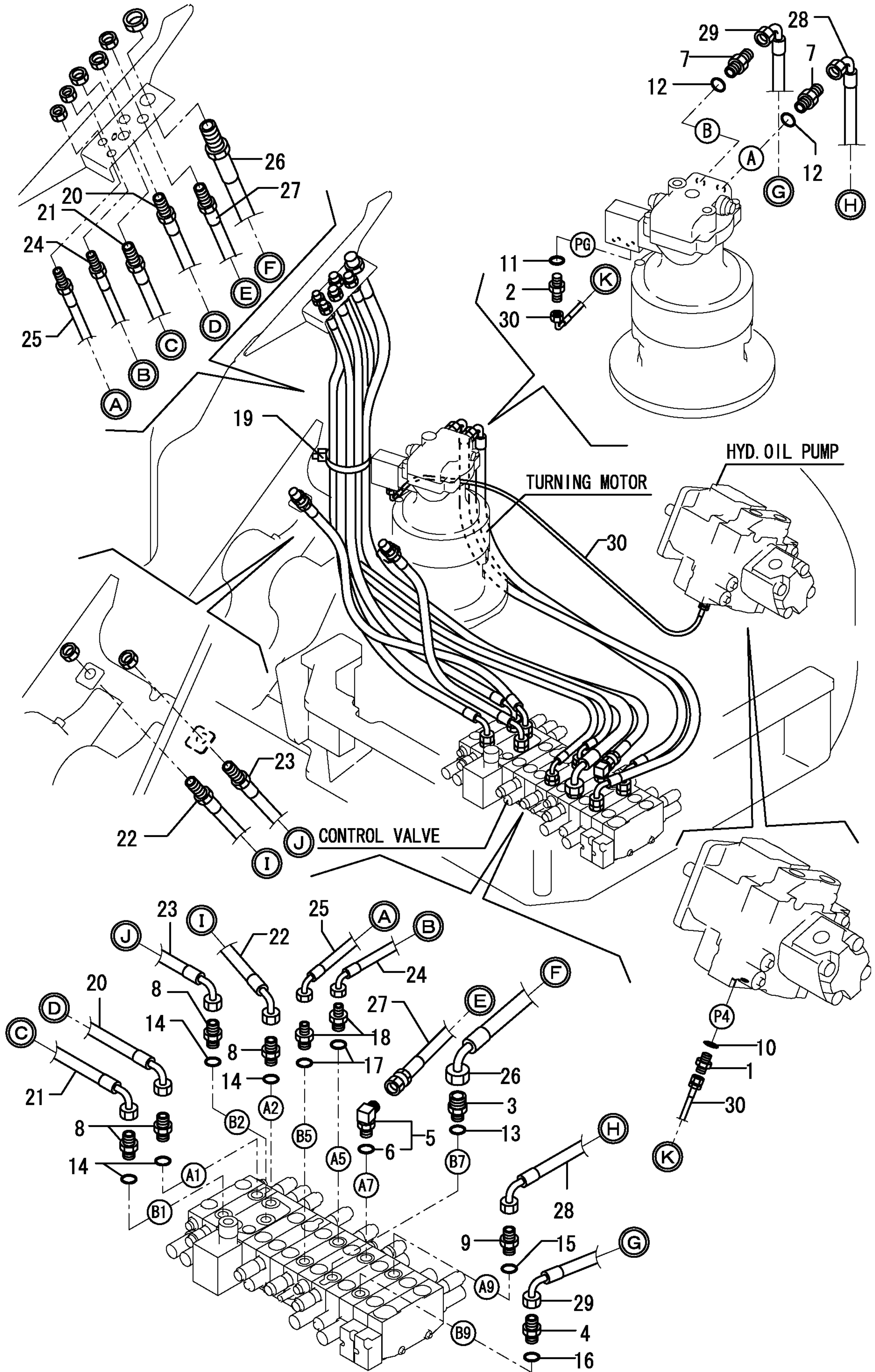
1,1,,772455-75100,, "RESERVOIR ASSY",1,,,,,,,,,,,,,
2,2,,172162-73700,, "STRAINER,SUCTION",1,,,,,,,,,,,,,
3,2,,172187-73700,, "FILTER ASSY, RETURN",1,,,,,,,,,,,,,
4,3,,172187-73730,, ELEMENT,1,,,,,,,,,,,,,
5,3,,172112-74971,, "VALVE, BY-PASS",1,,,,,,,,,,,,,
6,1,,172141-73710,, "ROD, STRAINER",1,,,,,,,,,,,,,
7,2,,172112-75770,, "SPRING, STRAINER",1,,,,,,,,,,,,,
8,2,,172112-75780,, "SPRING, STRAINER",1,,,,,,,,,,,,,
9,2,,26716-100002,, "NUT 10",1,,,,,,,,,,,,,
10,2,,124766-59050,, "CLAMP 12",1,,,,,,,,,,,,,
12,2,,172455-75240,, COVER,1,,,,,,,,,,,,,
13,2,,172455-75270,, "GAUGE ASSY, OIL",1,,,,,,,,,,,,,
15,3,,172455-75290,, "BOLT M10",2,,,,,,,,,,,,,
16,3,,172455-75300,, O-RING,4,,,,,,,,,,,,,
18,2,,172455-75320,, HOSE,1,,,,,,,,,,,,,
19,2,,172455-75330,, "DRAIN PLIG 24",1,,,,,,,,,,,,,
20,2,,172187-75340,, "COVER (GRAY:73)",1,,,,,,,,,,,,,
21,2,,172165-75450-2,, PLATE,1,,,,,,,,,,,,,
22,2,,172165-75460,, GASKET,1,,,,,,,,,,,,,
23,2,,172165-75481,, ELEMENT,1,,,,,,,,,,,,,
24,2,,172116-75850-3,, "PLUG,OIL FEED",1,,,,,,,,,,,,,
25,2,,22217-050000,, "SPRING WASHER 5",3,,,,,,,,,,,,,
26,2,,24311-000380,, "O-RING 1A P-38.0",1,,,,,,,,,,,,,
27,2,,24321-001350,, "O-RING 1A G-135.0",1,,,,,,,,,,,,,
28,2,,24321-001700,, "O-RING 1A G-170.0",1,,,,,,,,,,,,,
29,2,,24341-000300,, "O-RING 1A S-30.0",1,,,,,,,,,,,,,
30,2,,26013-100202,, "BOLT W/WASHER M10X20",4,,,,,,,,,,,,,
31,2,,26013-100202,, "BOLT W/WASHER M10X20",4,,,,,,,,,,,,,
32,2,,26116-050102,, "BOLT M 5X 10 PLATED",3,,,,,,,,,,,,,
33,1,,22137-160000,, "WASHER 16,POLISHED",4,,,,,,,,,,,,,
34,1,,22217-160000,, "SPRING WASHER 16",4,,,,,,,,,,,,,
35,1,,26116-160402,, "BOLT M16X 40 PLATED",4,,,,,,,,,,,,,



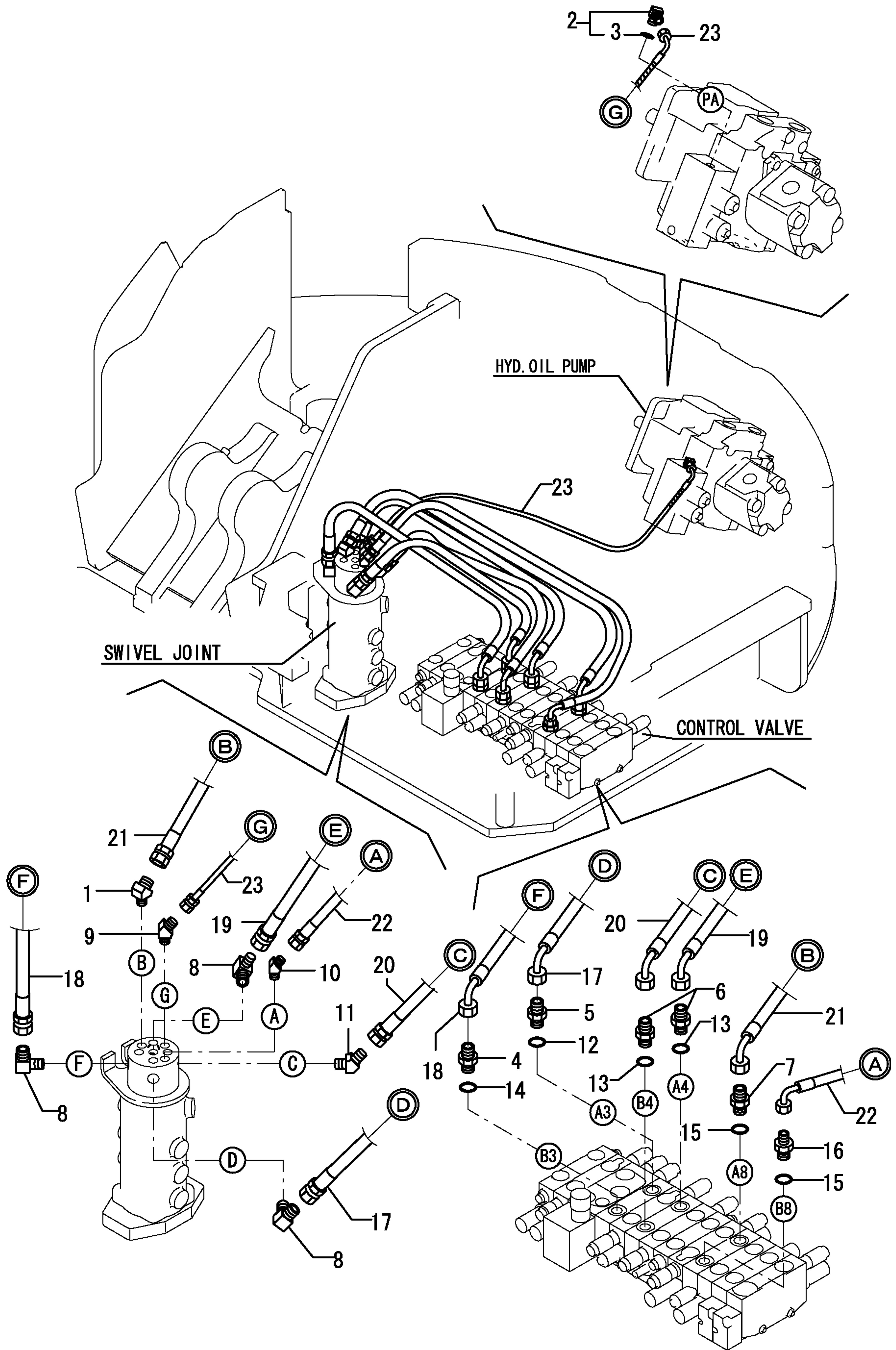
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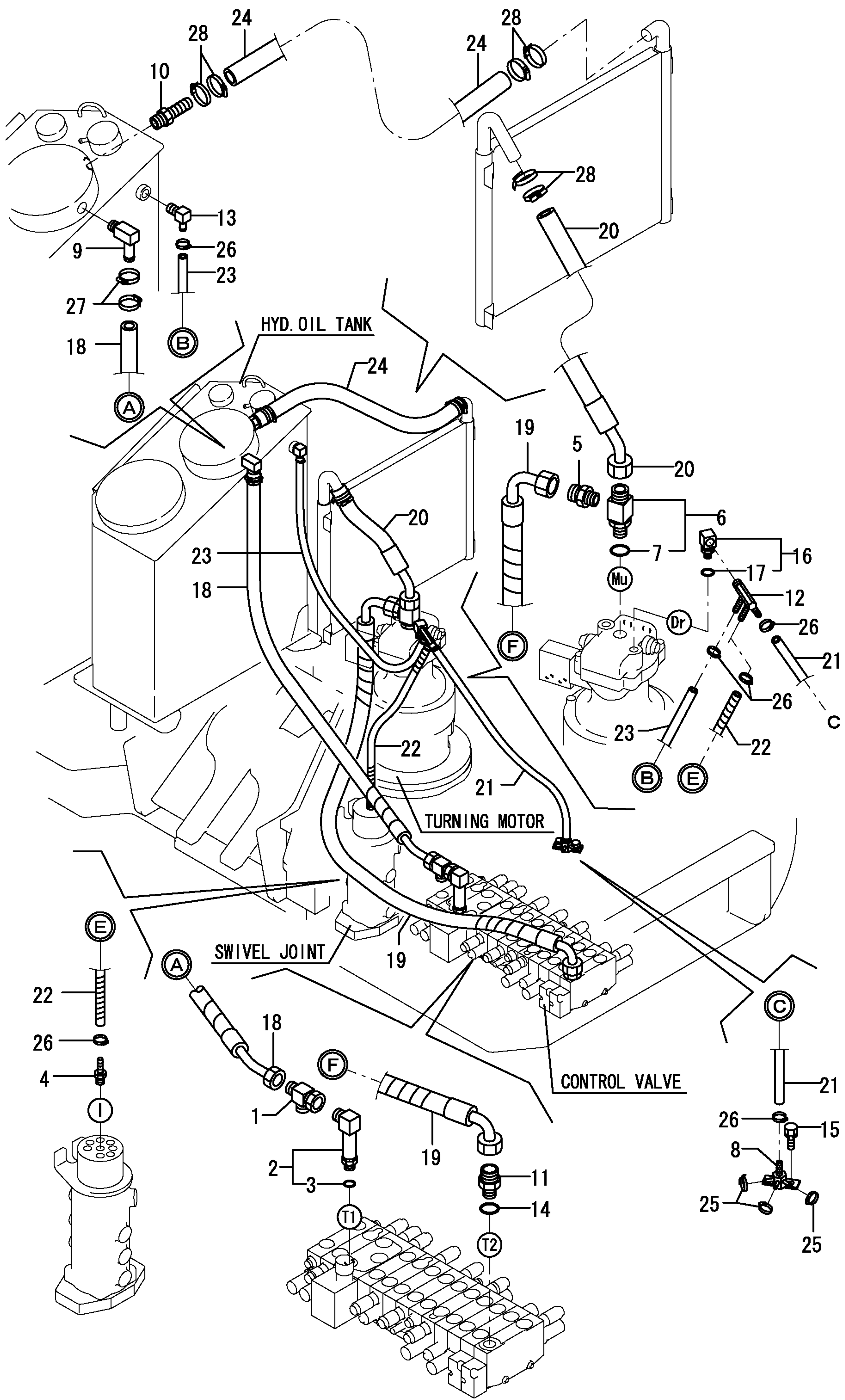
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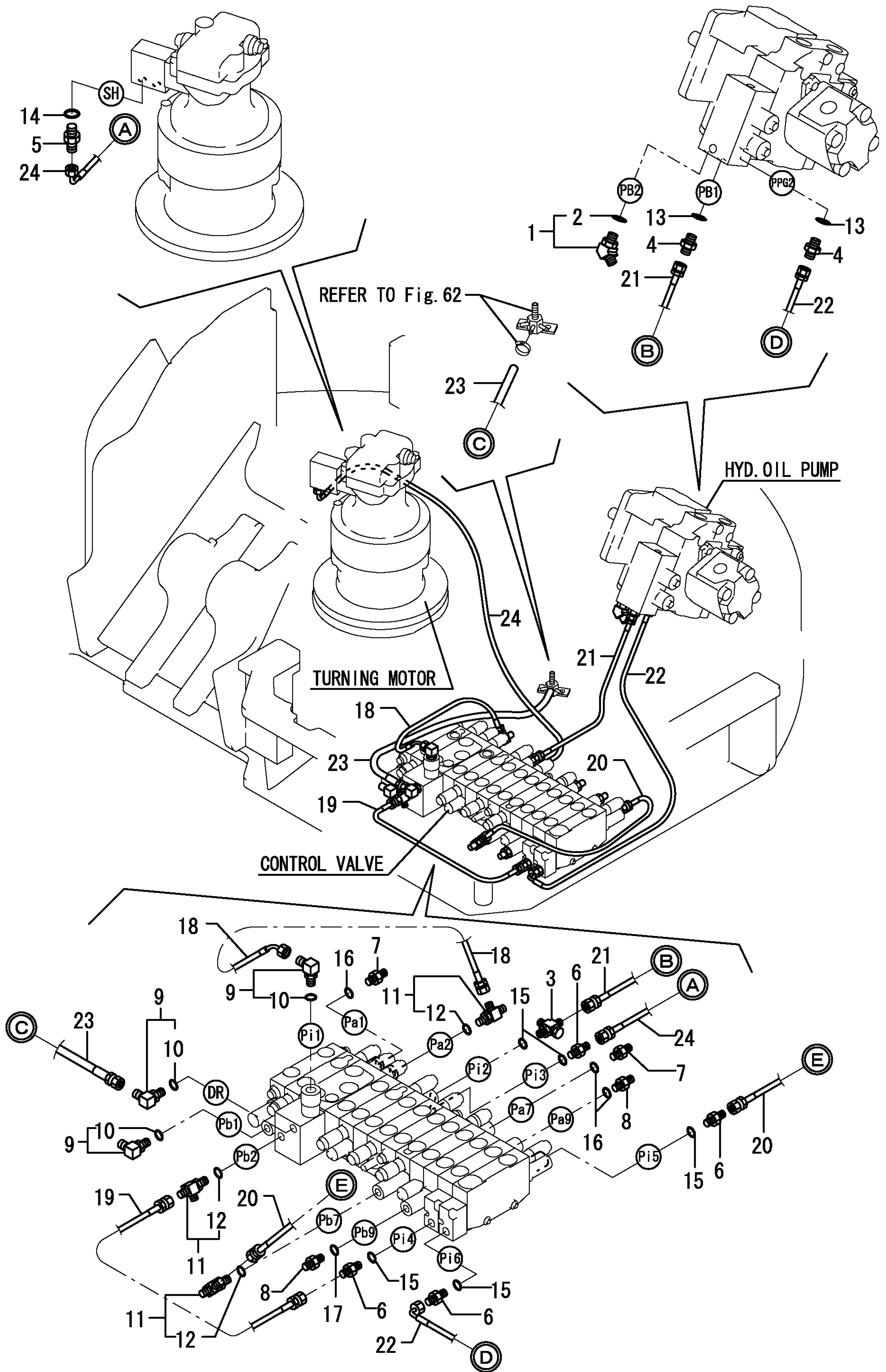
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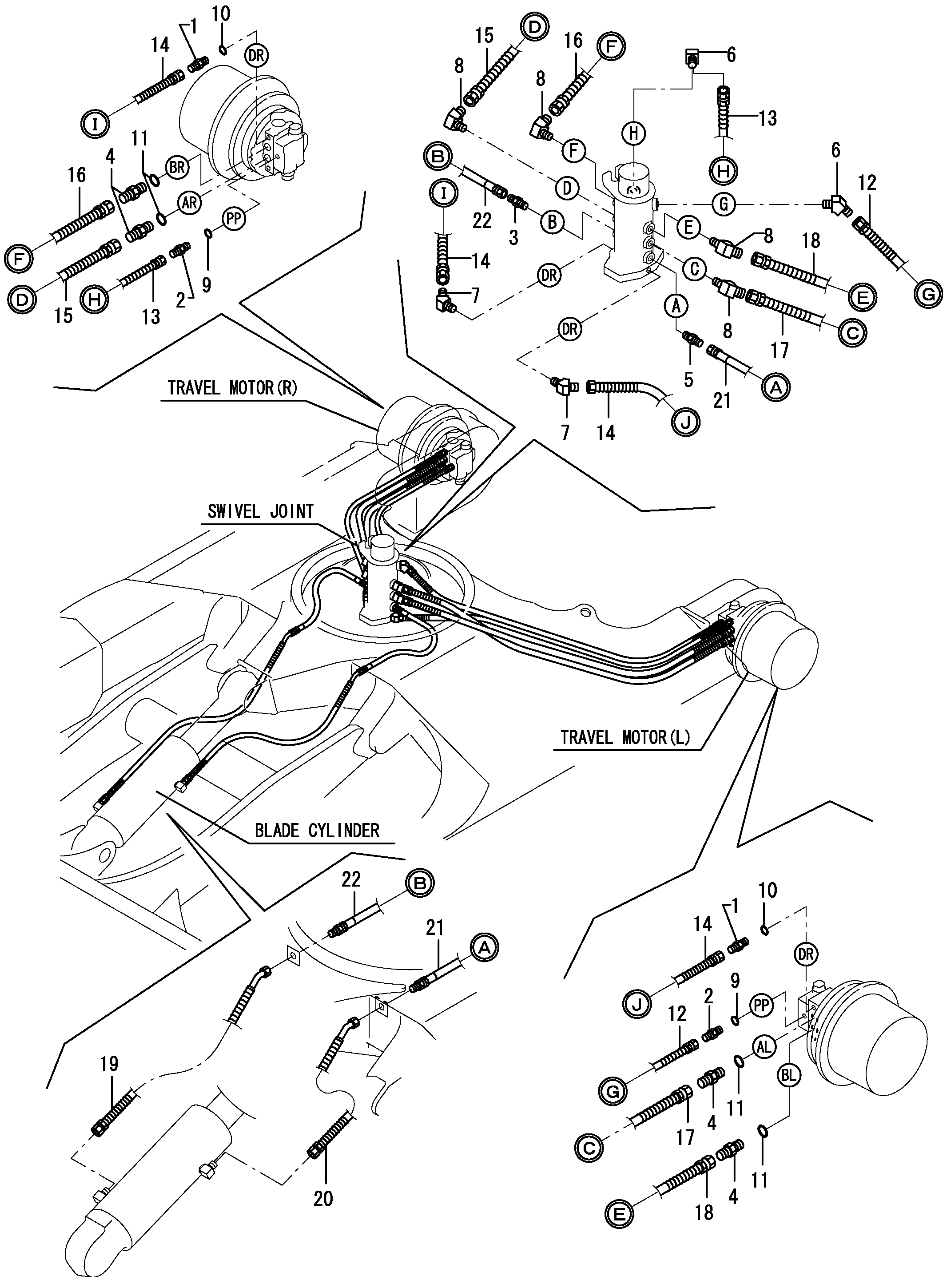


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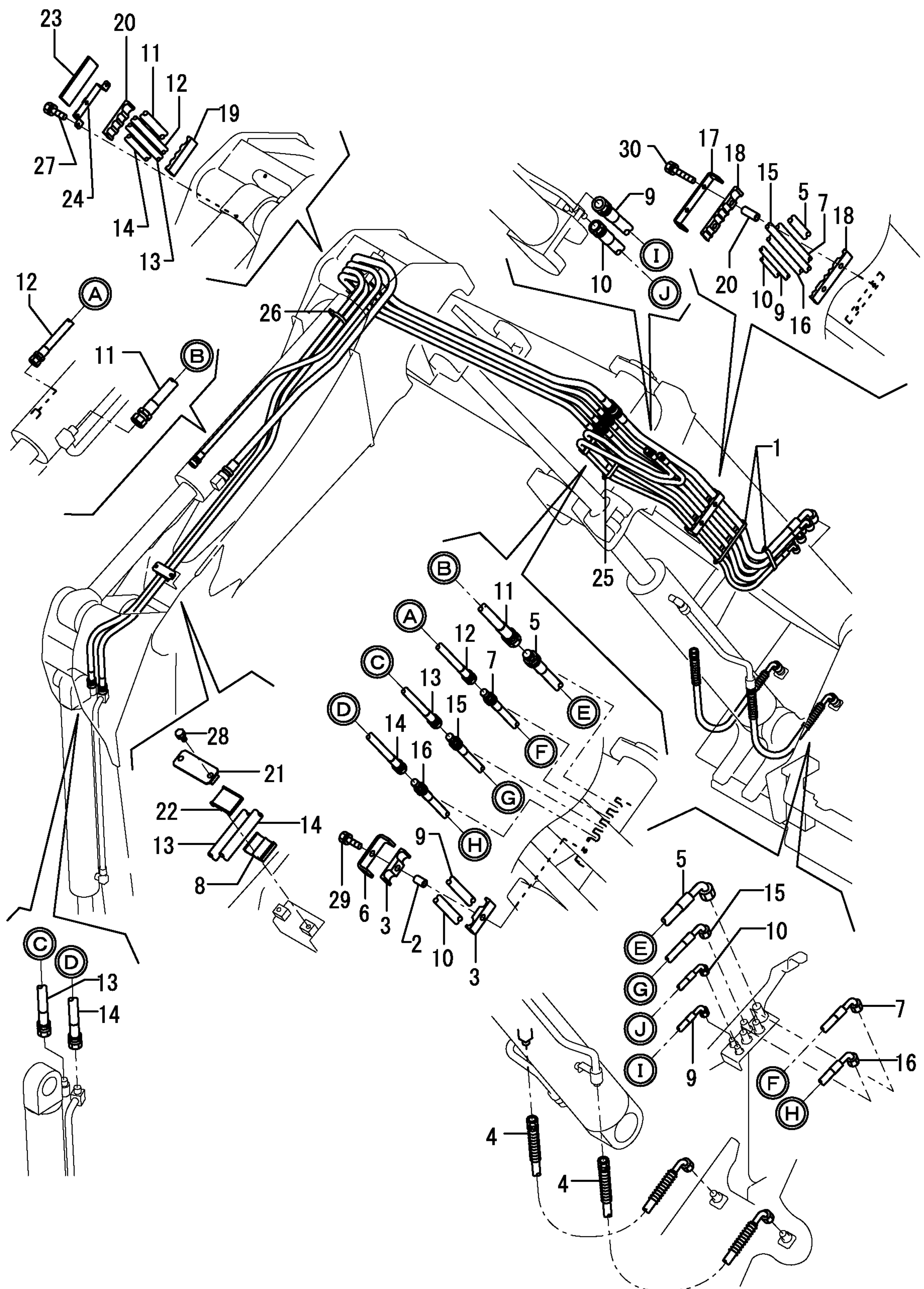


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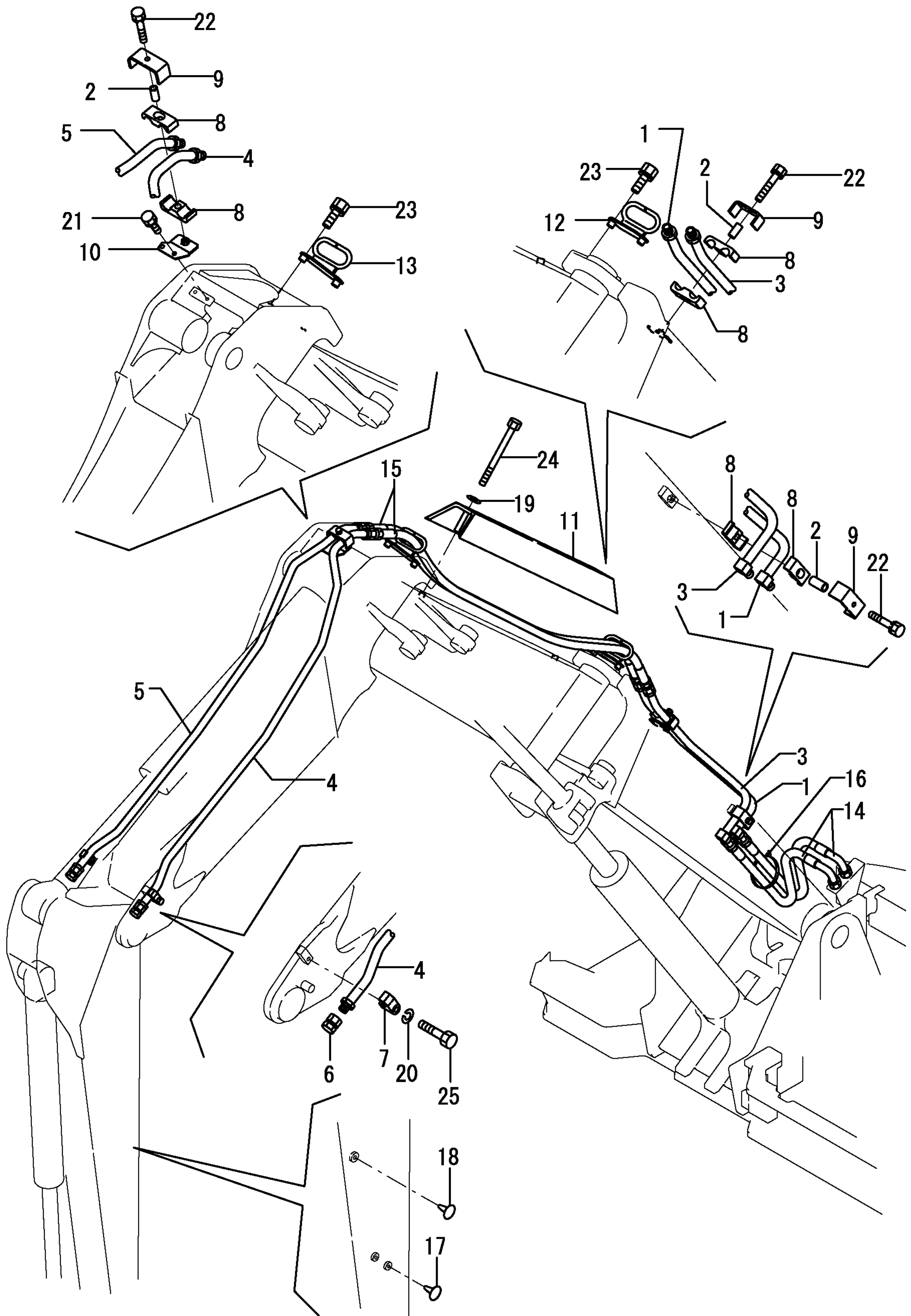
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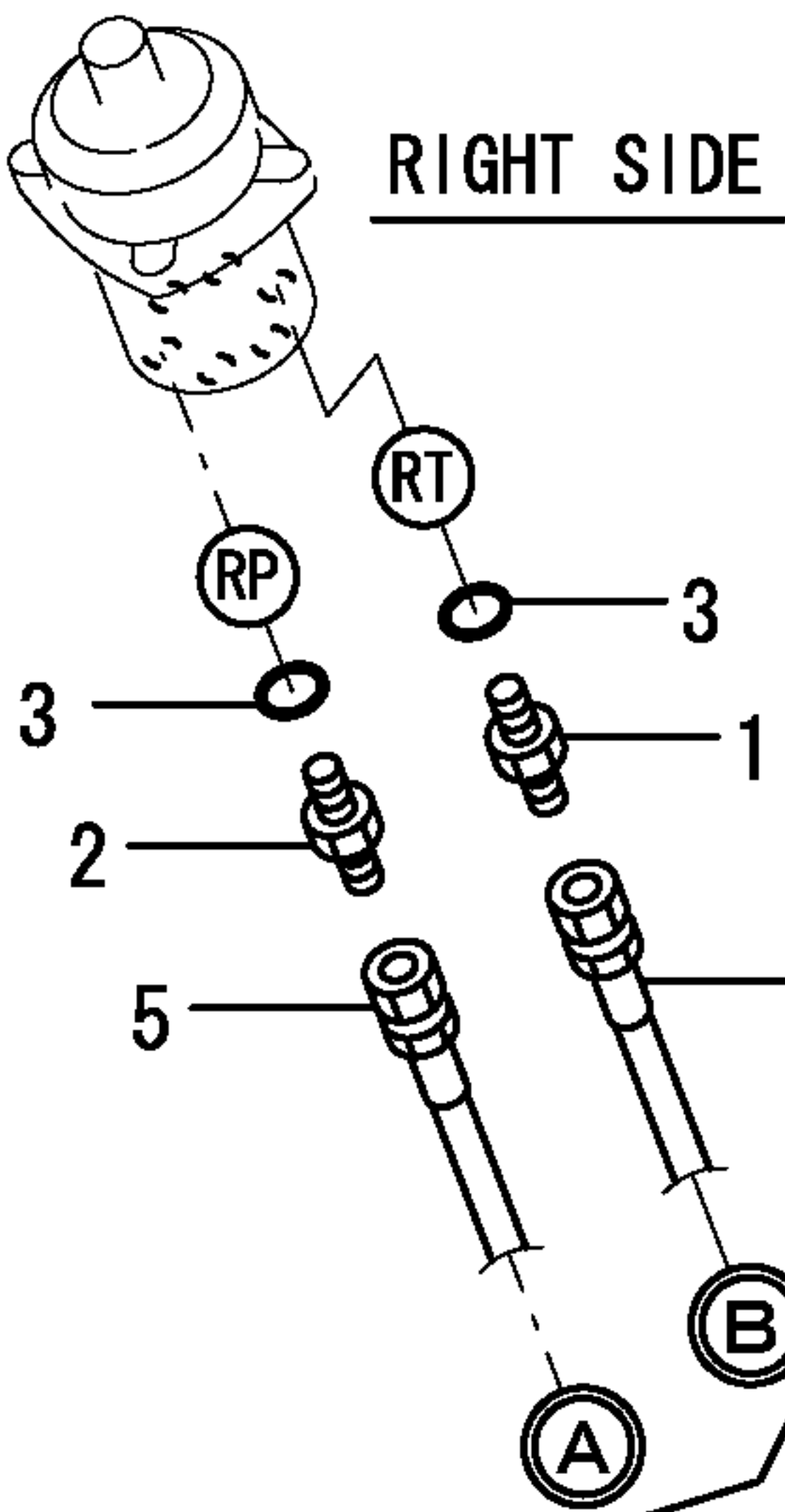
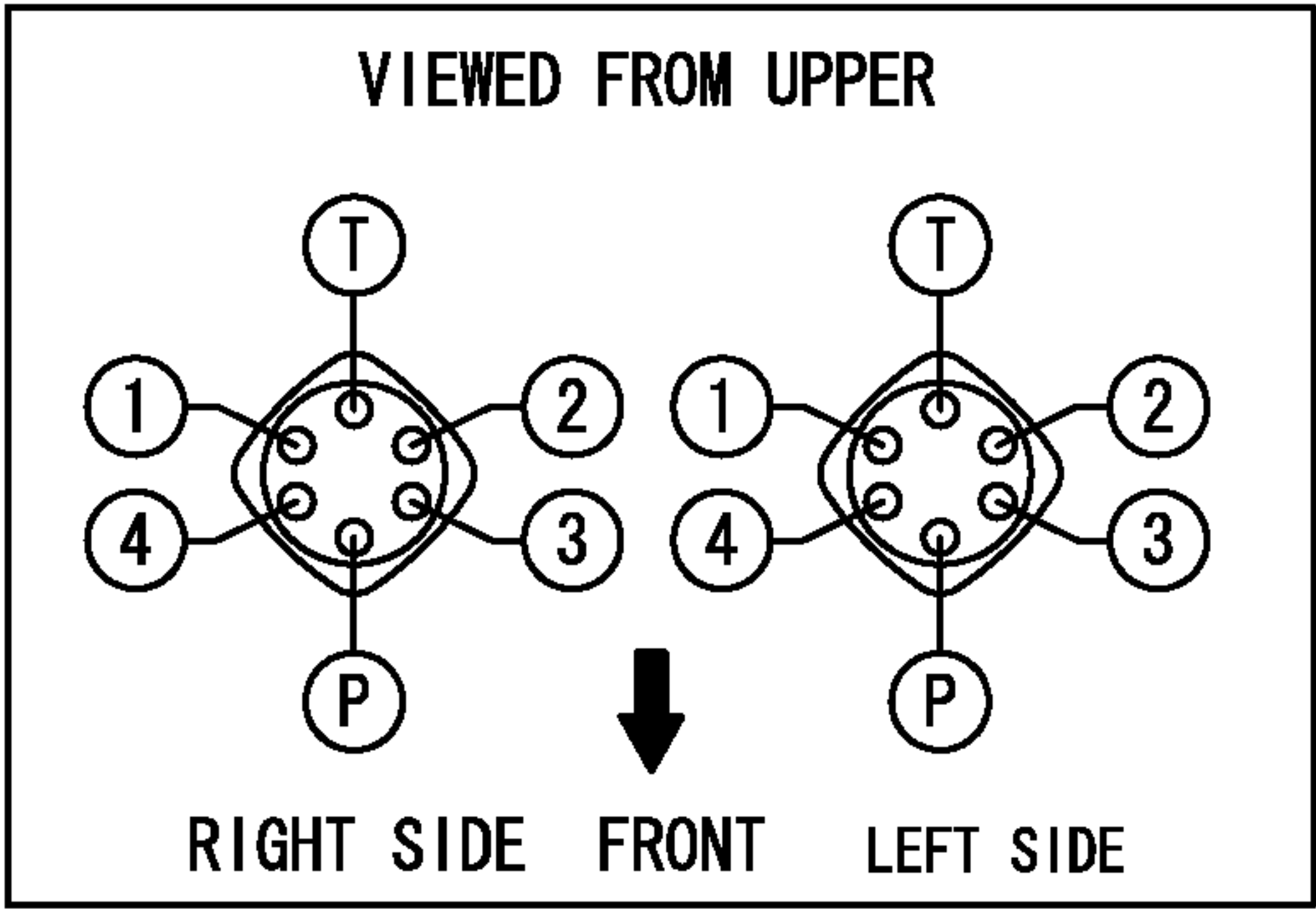
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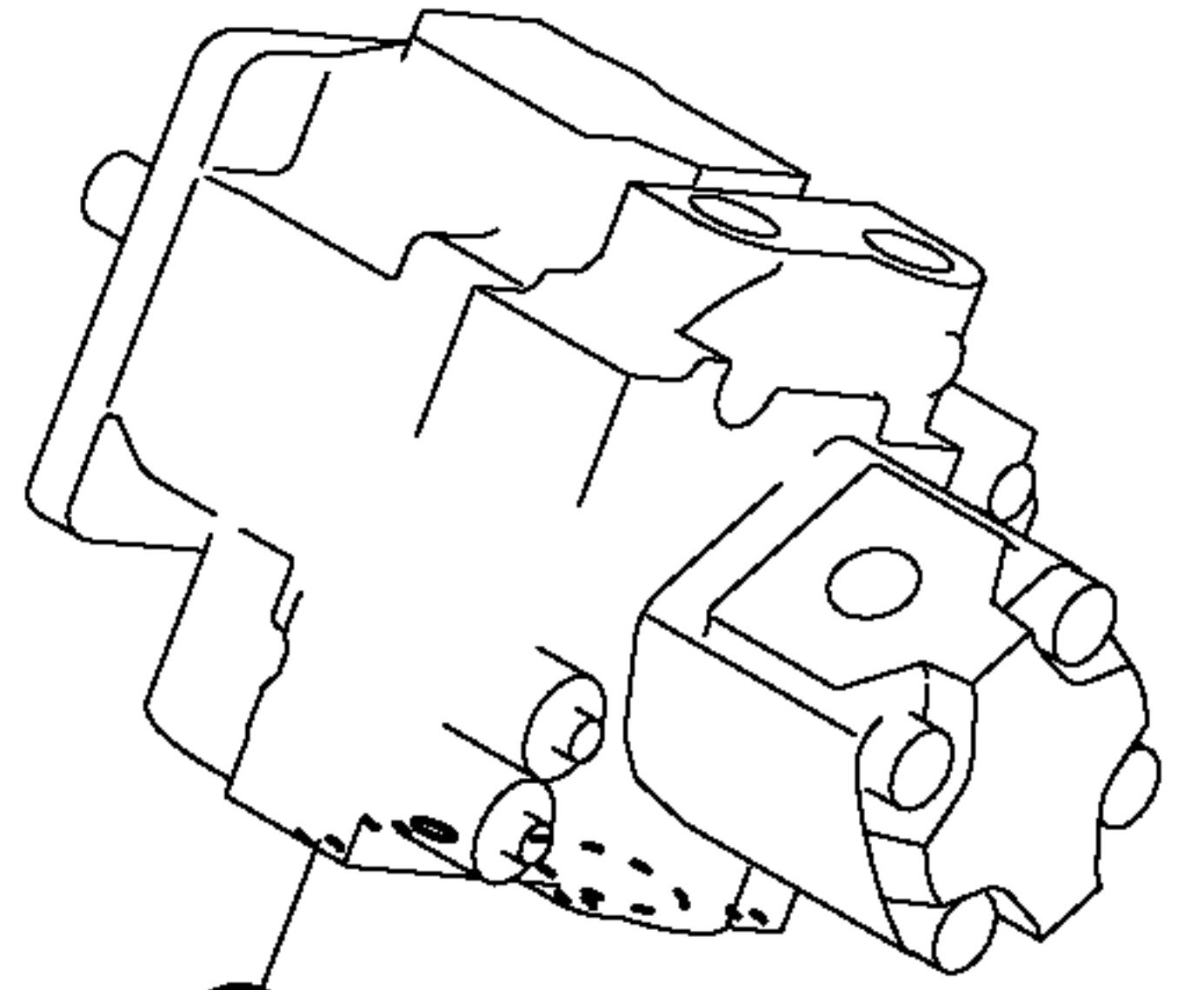
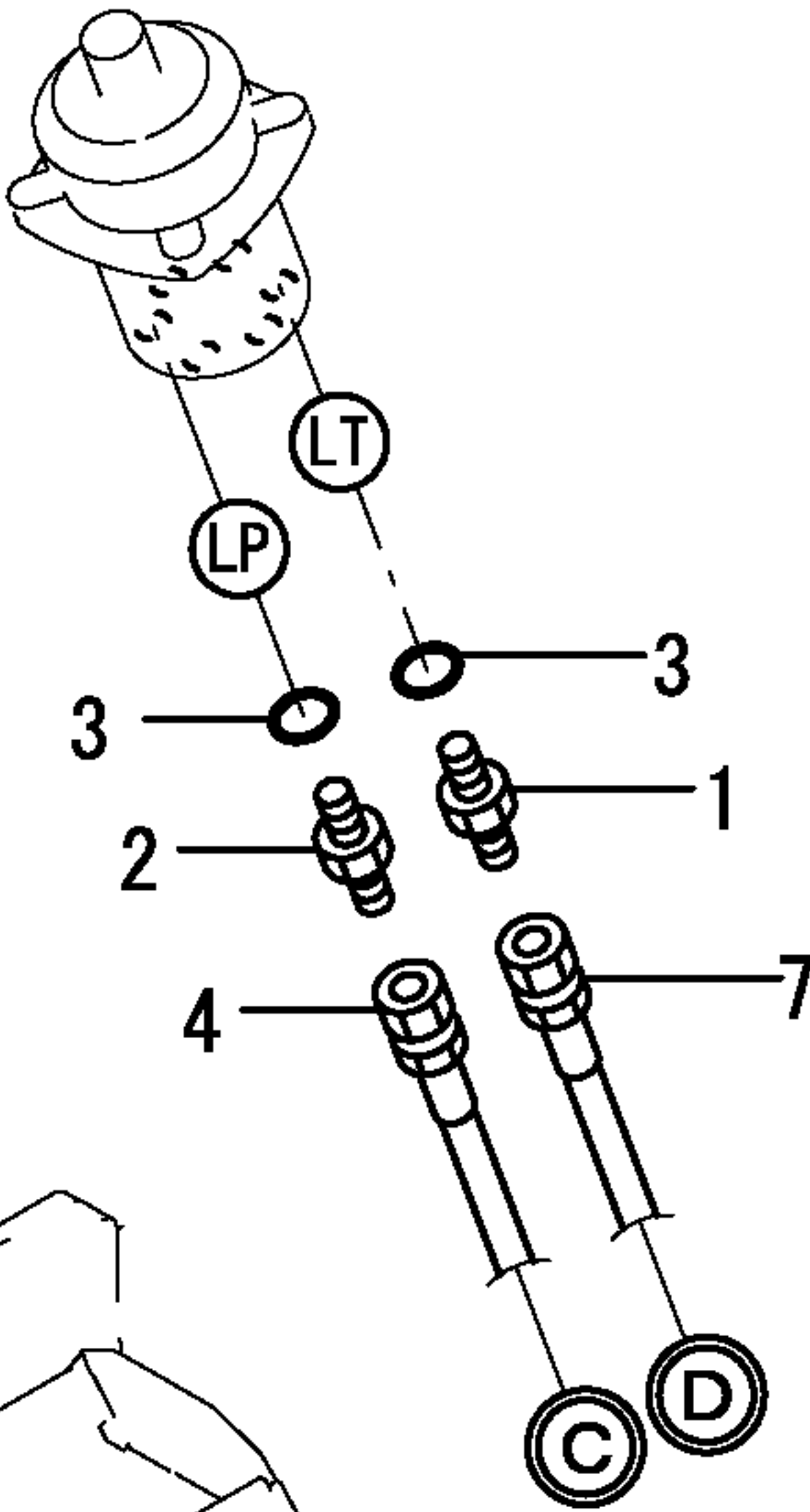
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LEFT SIDE

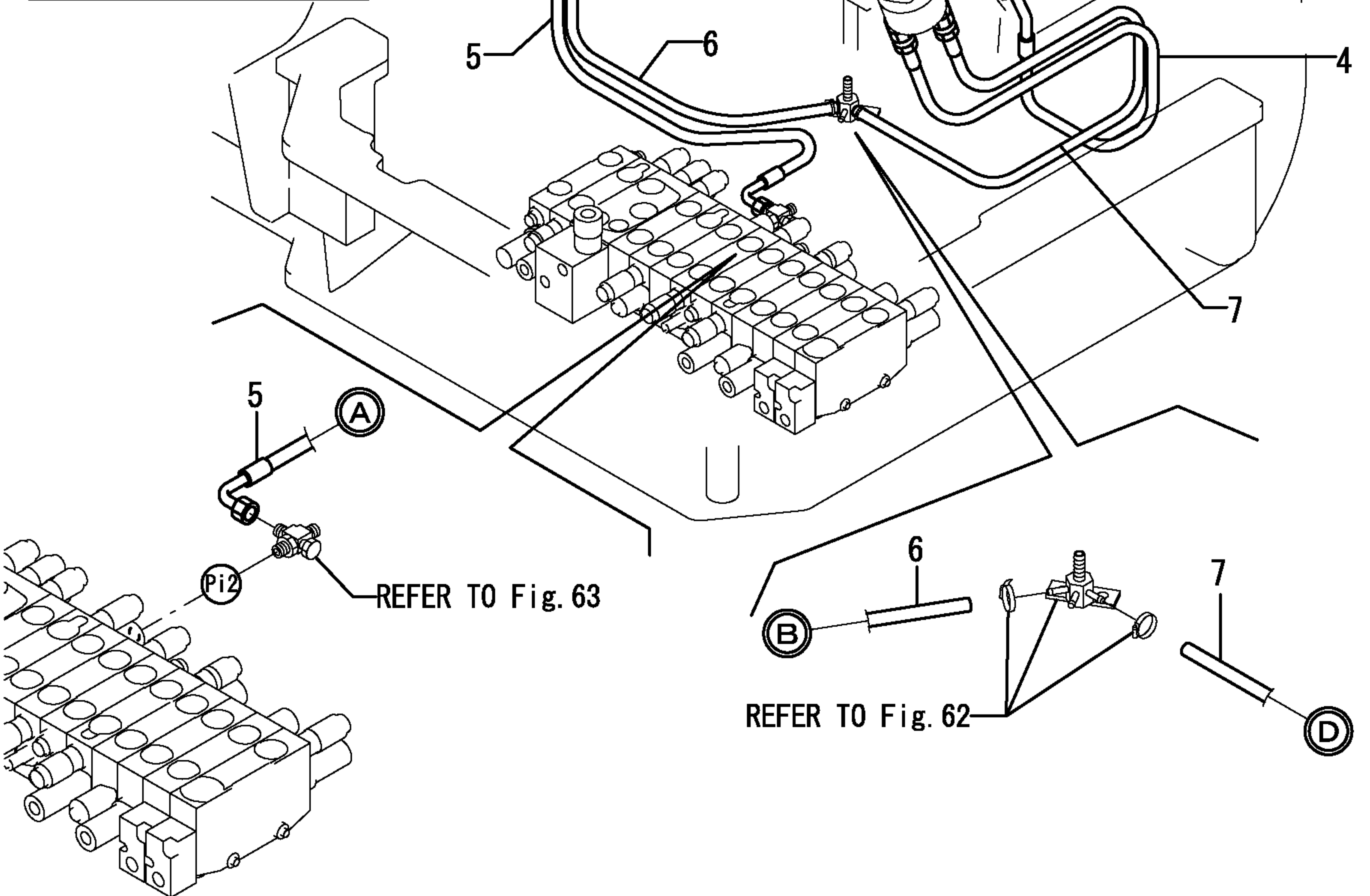


PB2

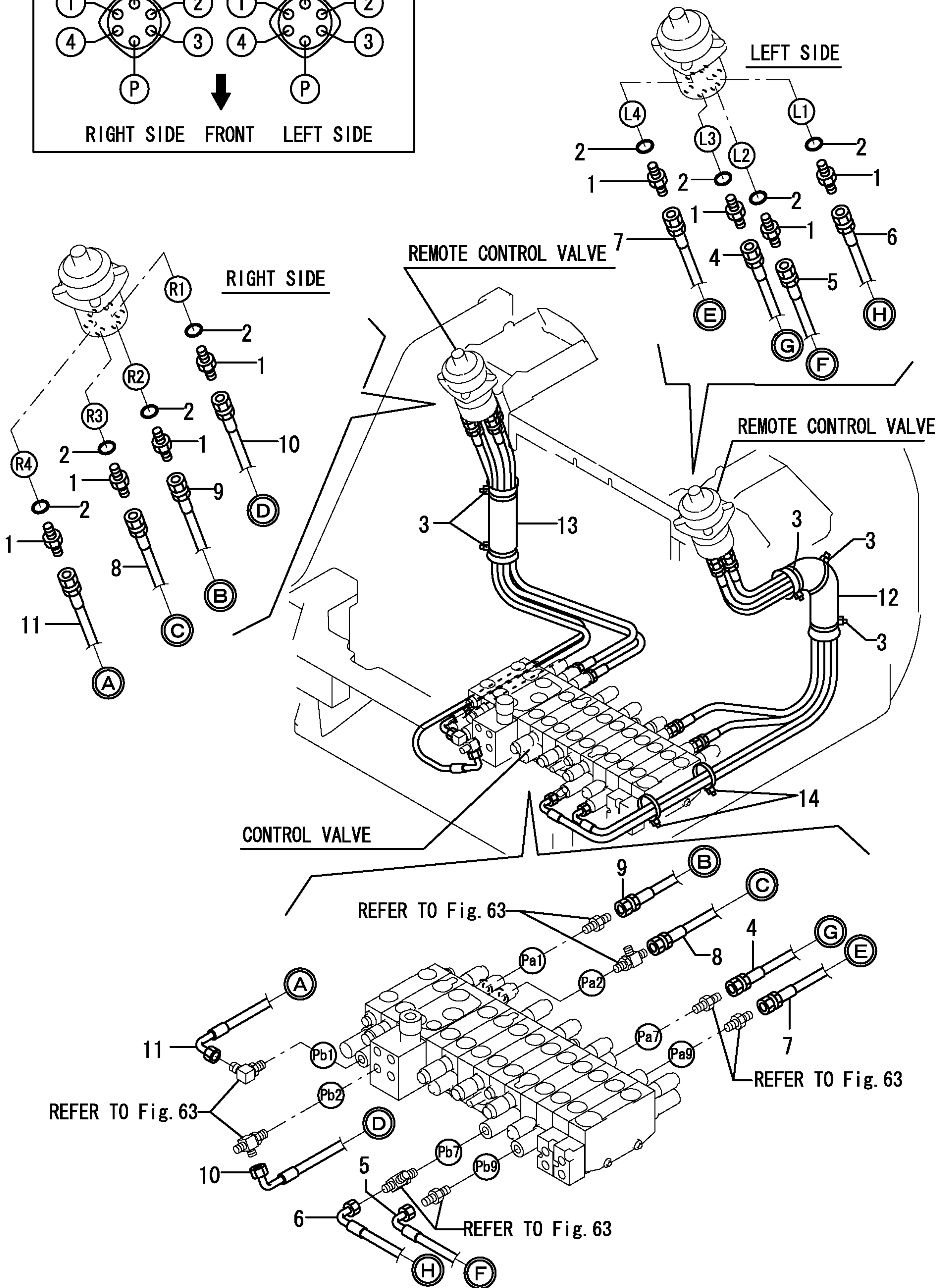
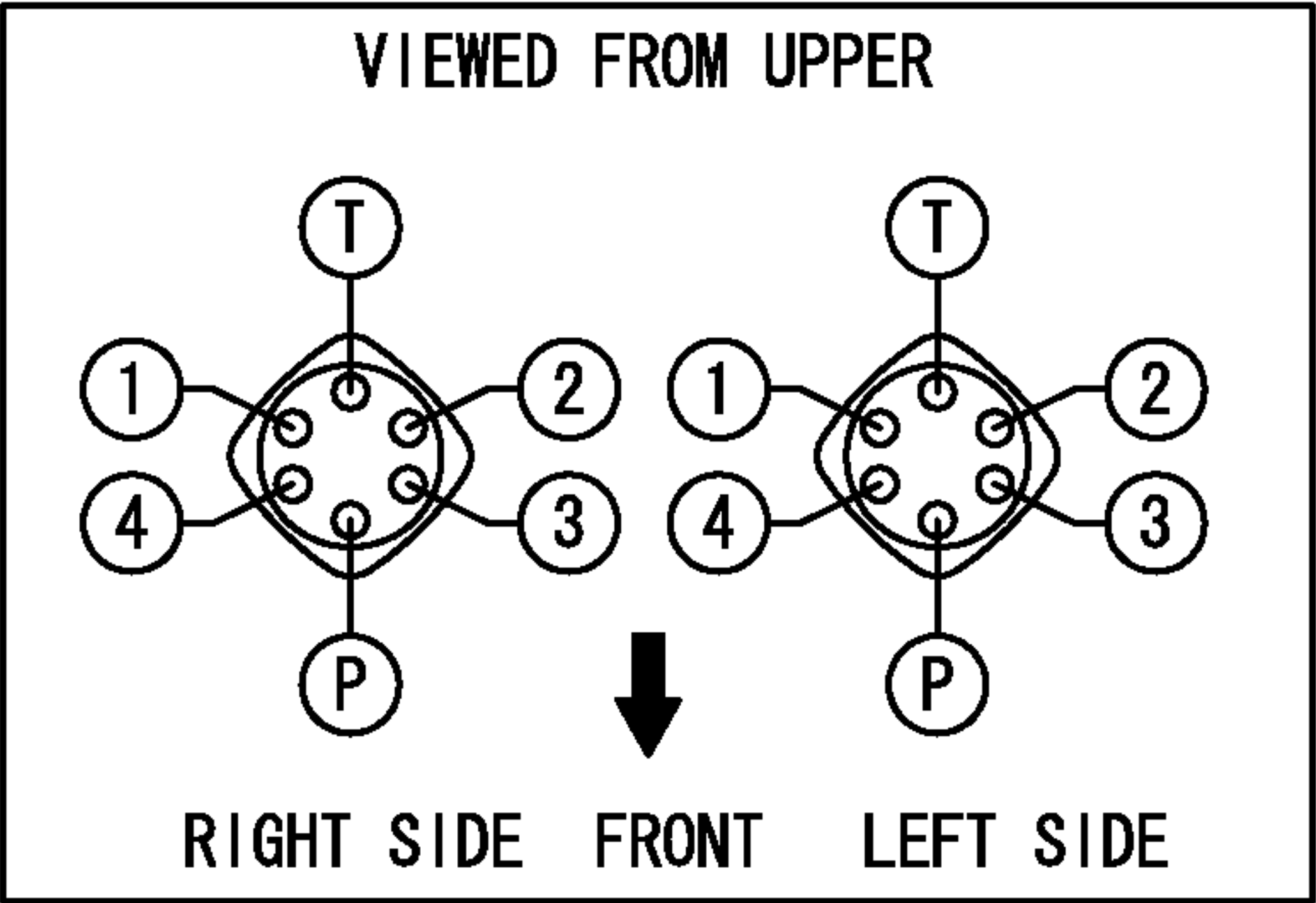
REFER TO Fig. 63

HYD. OIL PUMP

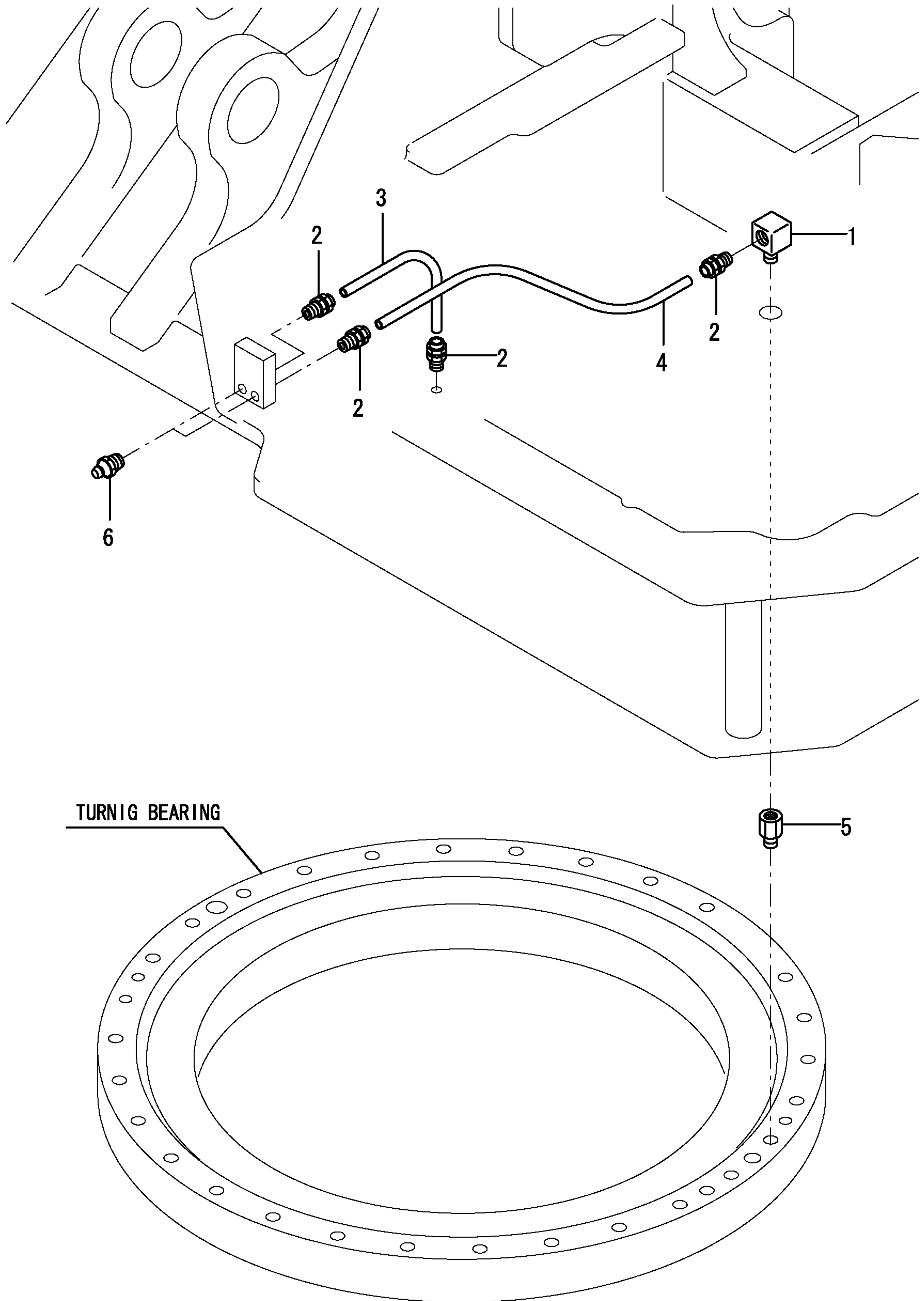
REMOTE CONTROL VALVE



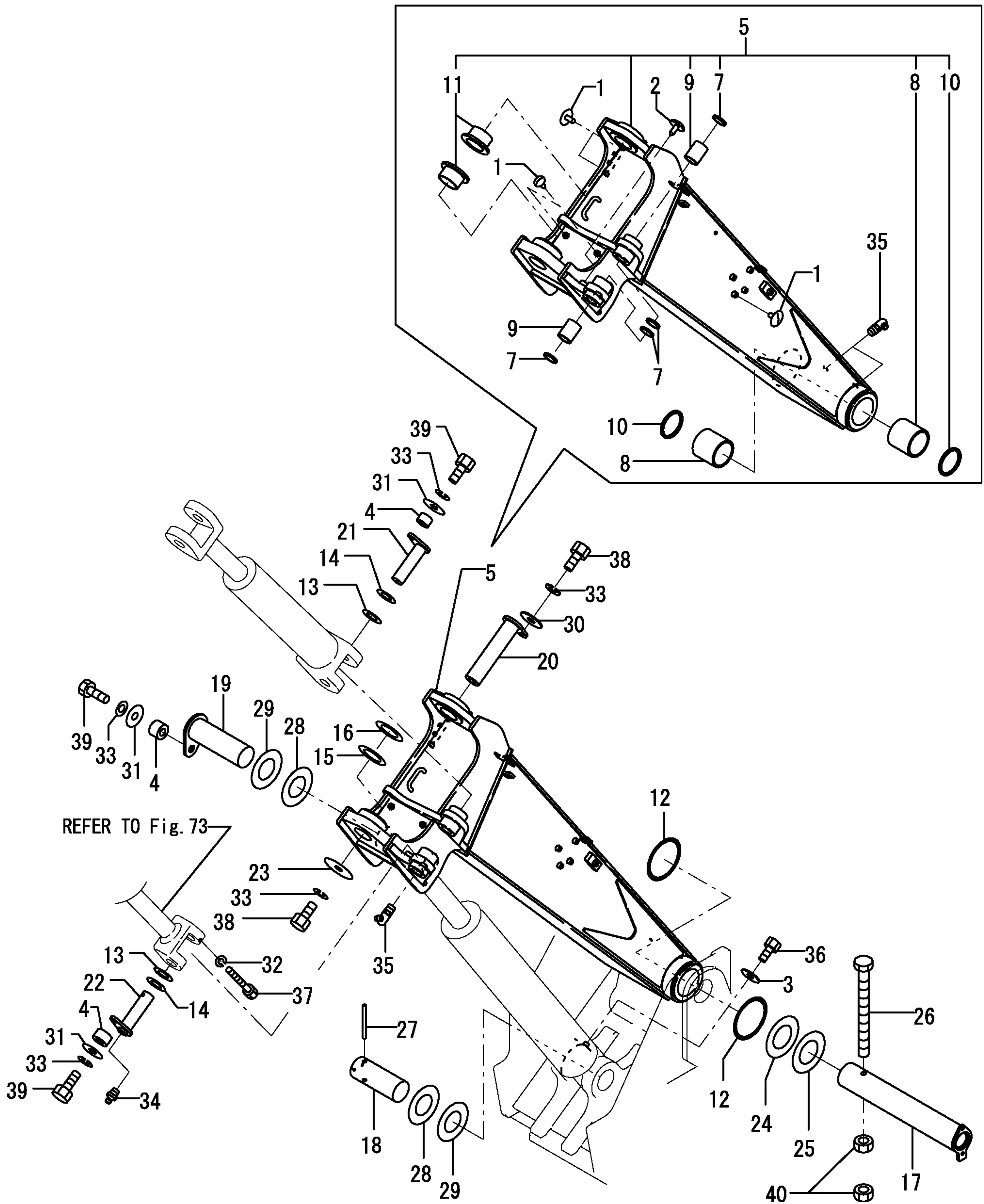
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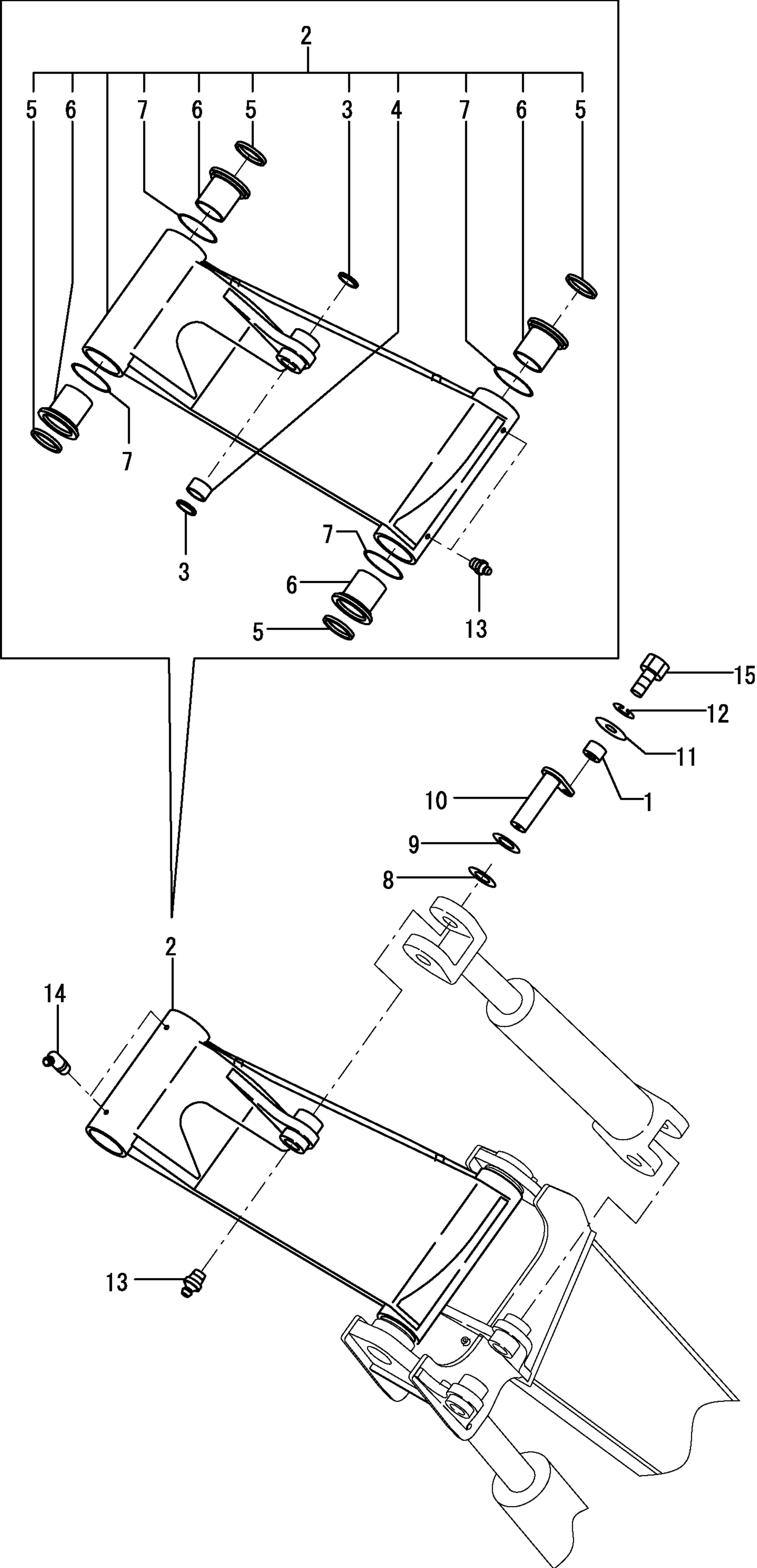
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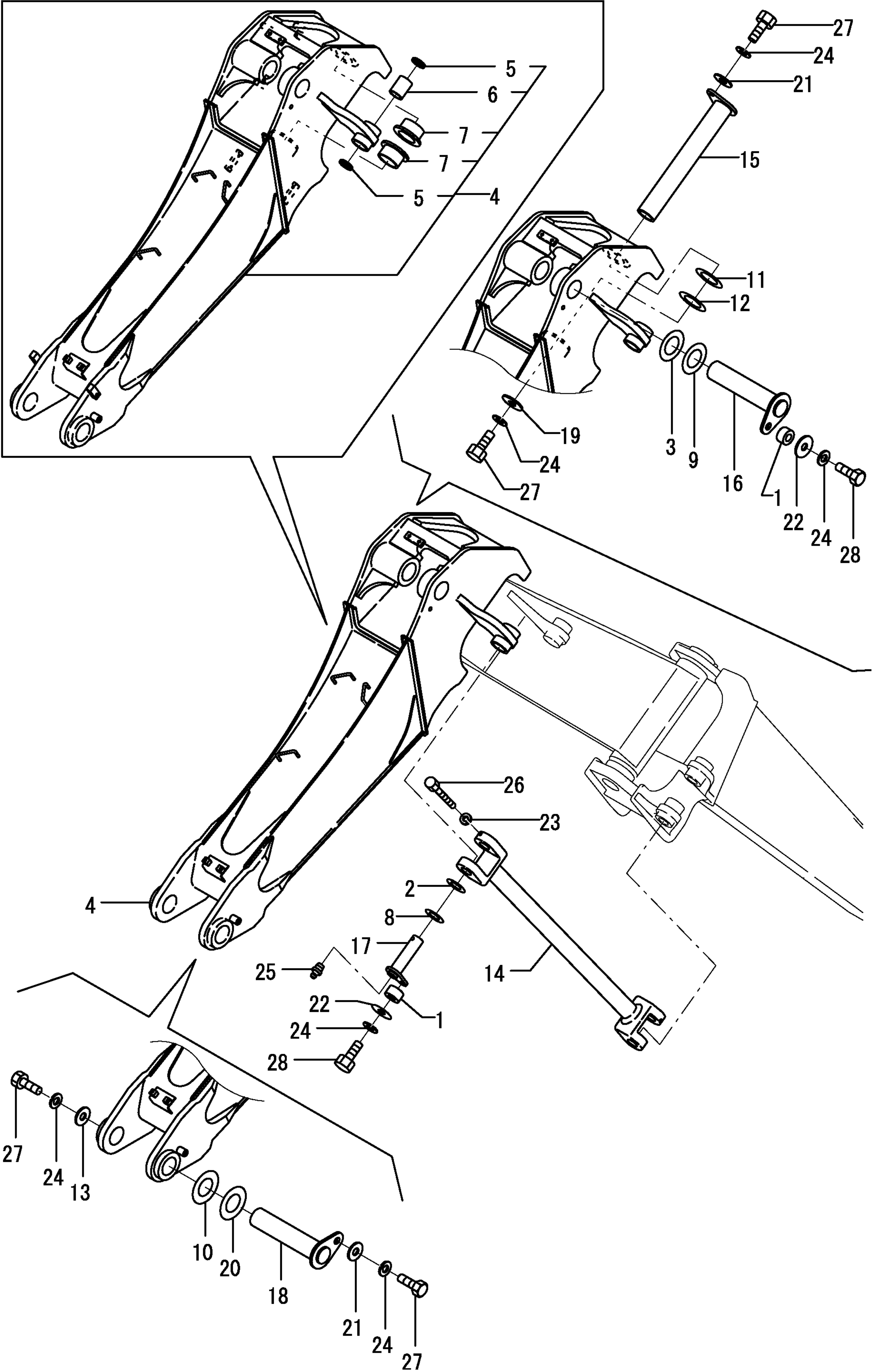
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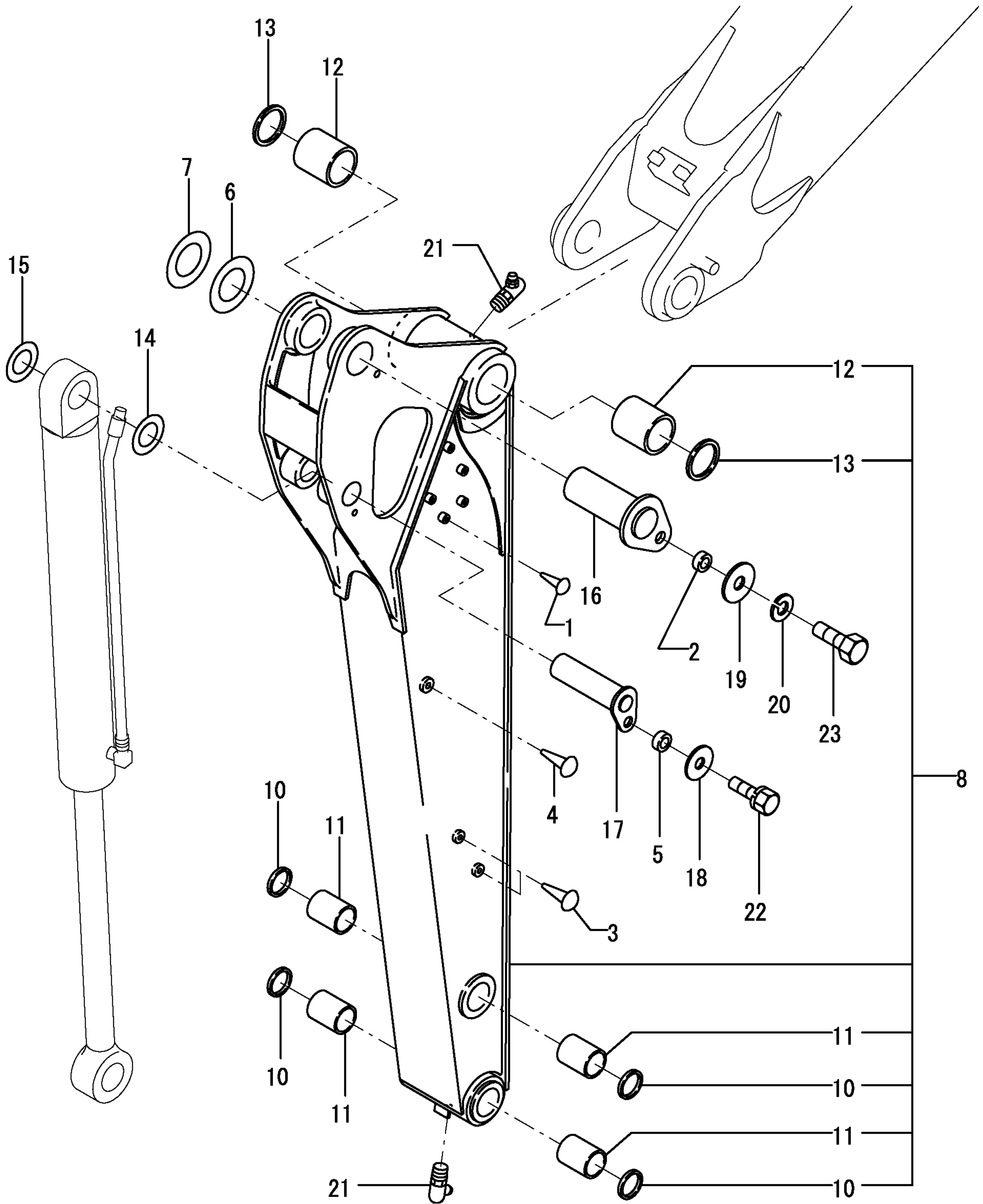
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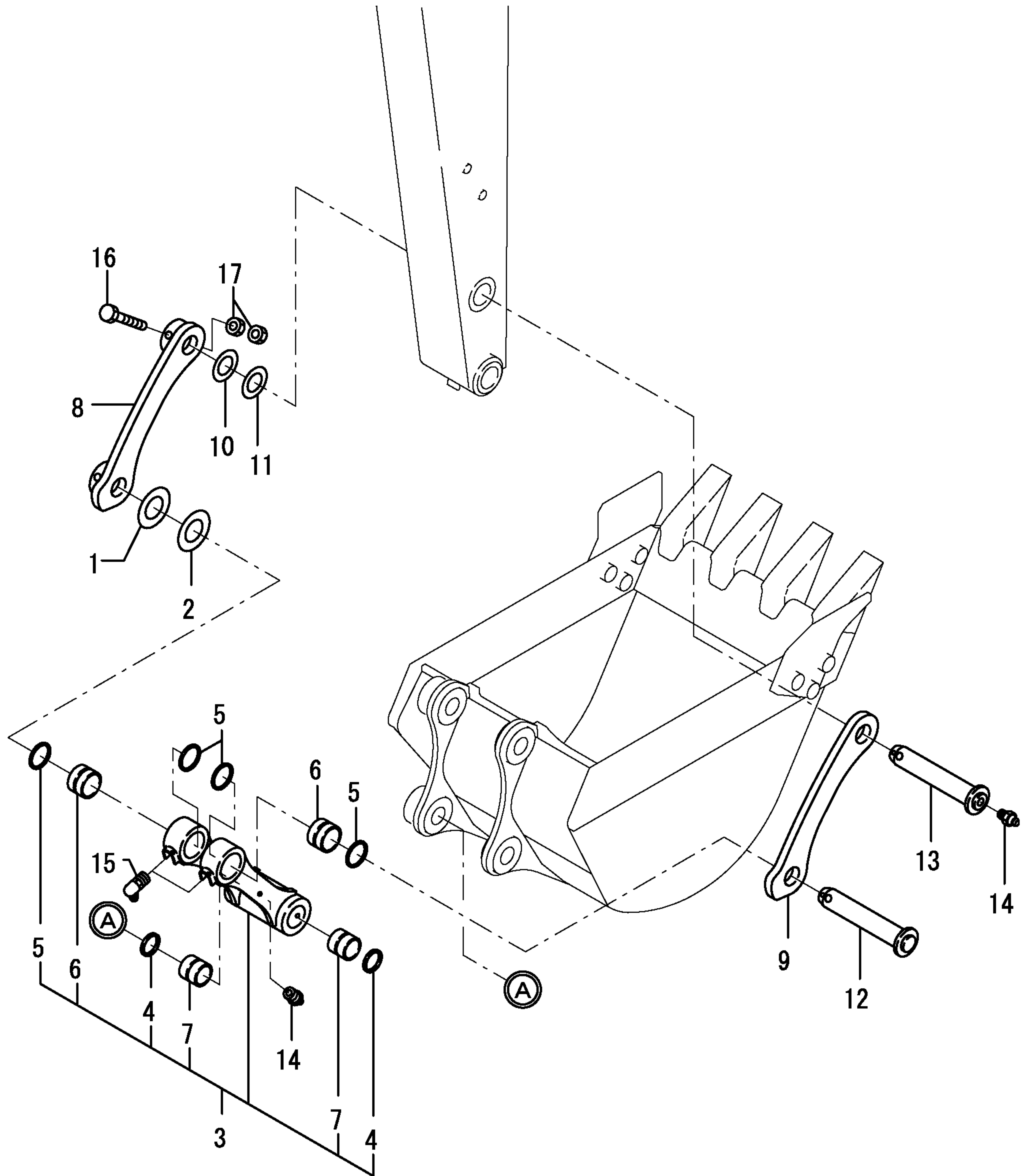
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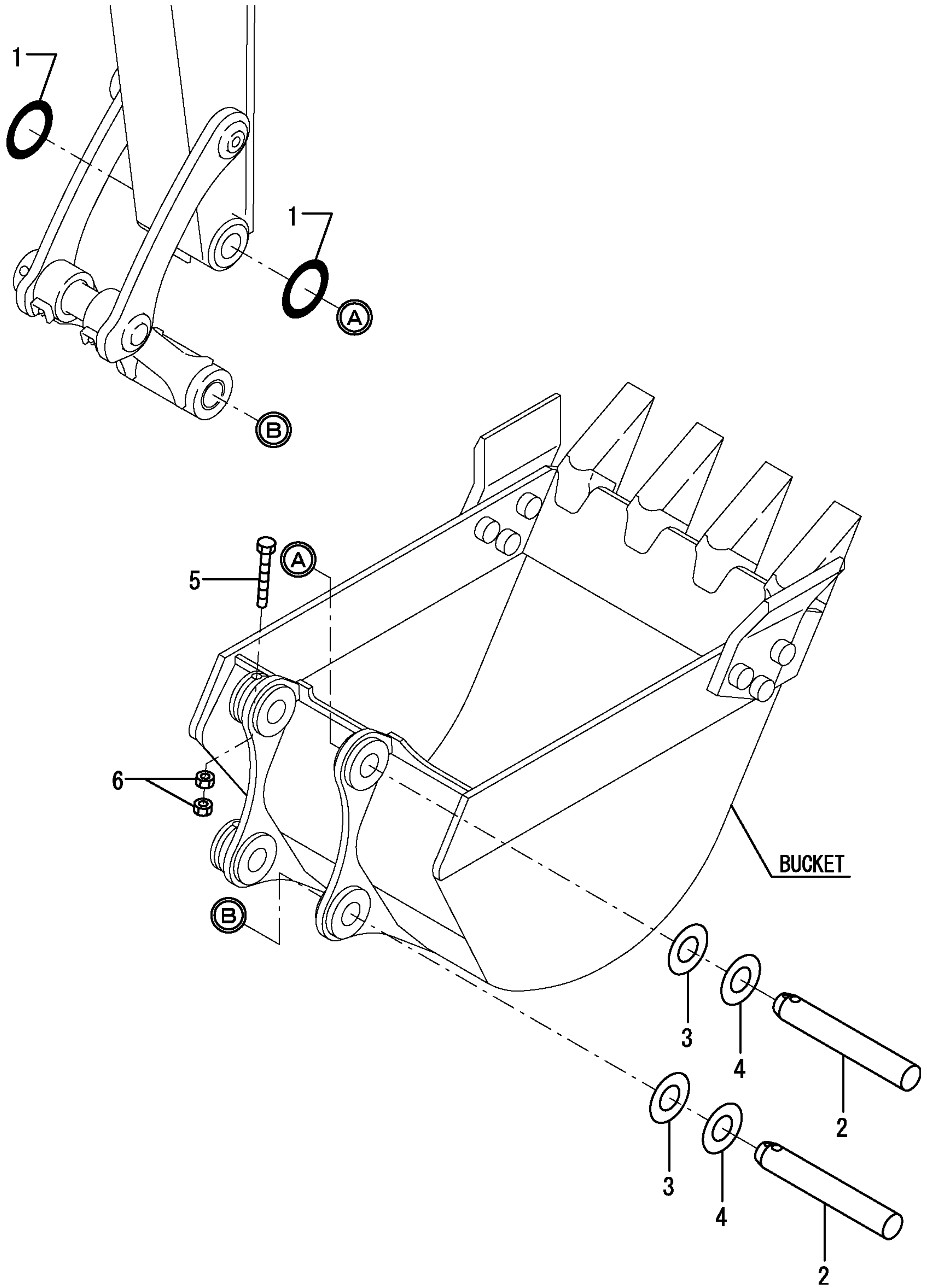
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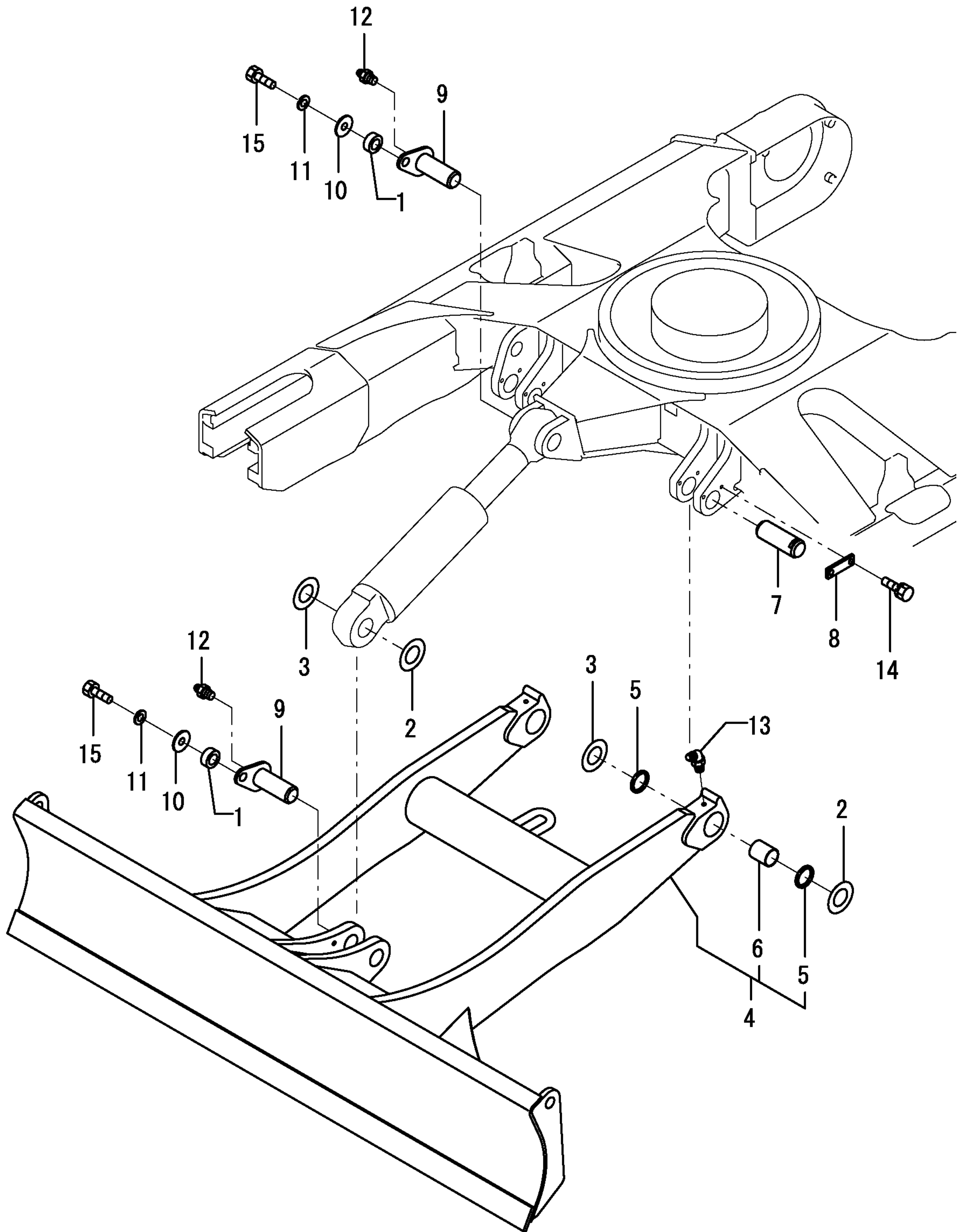
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[Info]

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JpnSec2=fofbNfz [

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EngSec1=CONSTRUCTION

EngSec2=EXCAVATOR (B)

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2,3,, MUFFLER,B7-5A(EP),,,
2,4,, "AIR CLEANER",B7-5A(EP),,,
2,5,, "ACCELERATOR LEVER",B7-5A(EP),,,
2,6,, "ENGINE MOUNT",B7-5A(EP),,,
2,7,, "RADIATOR & SUB-TANK",B7-5A(EP),,,
2,8,, "RADIATOR MOUNT",B7-5A,,,
2,9,, "FUEL TANK",B7-5A(EP),,,
2,10,, "FUEL LINE",B7-5A(EP),,,
2,11,, BATTERY,B7-5A(EP),,,
2,12,, "ELECTRIC PART(WIRING)",B7-5A(EP),,,
2,13,, "ELECTRIC PART(EQUIPMENT)",B7-5A(EP),,,
2,14,, "INDICATOR BOX",B7-5A(EP),,,
2,15,, "WIND WASHER",B7-5A(EP),,,
2,16,, HEATER,B7-5A(EP),,,
2,17,, DEFROSTER,B7-5A(EP),,,
2,18,, "SPROCKET & ROLLER",B7-5A(EP),,,
2,19,, "IDLER & CRAWLER ADJUST",B7-5A(EP),,,
2,20,, CRAWLER,B7-5A(EP),,,
2,21,, "CONTROL EQUIPMENT(LOCK LEVER & STAND)",B7-5,,,
2,22,, "CONTROL EQUIPMENT(TRAVEL)",B7-5A(EP),,,
2,23,, "CONTROL EQUIPMENT(BLADE)",B7-5A,,,
2,24,, "CONTROL EQUIPMENT(OFFSET)",B7-5A(EP),,,
2,25,, "CONTROL EQUIPMENT(LOW-HIGH PEDAL)",B7-5A(EP),,,
2,26,, "CONTROL EQUIPMENT(P.T.O. PEDAL)",B7-5A(EP),,,
2,27,, "CONTROL VALVE PLATE",B7-5A,,,
2,28,, "FRAME & TURNING BEARING",B7-5A(EP),,,
2,29,, COVER(FRAME),B7-5A(EP),,,
2,30,, "COVER(AROUND THE CONTROL)",B7-5A,,,
2,31,, "COVER(AROUND THE SEAT)",B7-5A(EP),,,
2,32,, COVER(BOOM),B7-5A,,,
2,33,, "STEP & INSTRUMENT PANEL",B7-5A(EP),,,
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2,58,, "HYD.OIL TANK",B7-5A,,,
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2,77,, BLADE,B7-5A(EP),,,