

GEHL®

Form No.
50940085
Revision B
Dec. 2012

Model Z45

Compact Excavator



Parts Manual

INTRODUCTION

General

- MANITOU AMERICAS, INC. reserves the right to make changes or improvements in the design or construction of any part of the machine without incurring the obligation to install such changes on any previously delivered machines.
- This parts manual should not be used as a technical data reference; it uses simplified illustrations and does not detail servicing procedures.

Parts Ordering Information

- When ordering service parts, specify the correct part number, full description and quantity required, as well as the machine and engine model and serial numbers. For your safety and continued proper operation, use only genuine GEHL service parts.
- “Right”, “left”, “front” and “back” are determined from a position sitting on the operator’s seat and facing forward, and the excavator “house” rotated so that the blade is also facing forward.

Torque Charts

Standard attaching hardware torque values are provided on the inside back cover, and some torque values may be shown in illustrations. Metric torque values are shown in Newton-meters, and are converted to foot-pounds by multiplying by 0.738.

Illustrations and Parts Lists

- Not all parts shown in the illustrations may be included in the parts listings; some are not serviced separately or are not included on engines sold in all areas.
- Ref. Nos. shown in the parts listings without part numbers are shown for reference purposes only and are not available for purchase.
- Boxes or brackets may be used in some illustrations to indicate assemblies (part groupings), or in some cases to highlight different versions of individual parts or assemblies.
- Text references may be present on some illustrations to provide additional information.

- Some illustrations will contain circled letters or a circled combination of letters and numbers in addition to the regular number callouts. These special callouts may be used to identify hydraulic port locations which are marked on components, or to identify the two ends of a hose, tube, or other part that is shown split in the illustration. They may also be used to indicate a common reference point when different versions of components are shown on the illustration.

Serial Number Locations and Information

- Machine Serial Plate - Located at the lower right front of the machine on the turning frame. There are four items shown on the plate:
 - 1) Model = machine model number
 - 2) Machine No. = machine serial number
 - 3) Engine No. = engine serial number
 - 4) Product Identification Number = a sequence starting with YMR plus the machine model number, and ending with the five digit machine serial number. The additional characters in-between provide information about specific machine configuration.

NOTE: *The engine serial number is shown on this plate for ease of access. It is also shown on a serial plate located on the engine cylinder head cover.*

- ROPS /FOPS Serial Plate - Located on a crossmember on the inside of the canopy roof, if equipped. There are four items shown on the plate:
 - 1) Machine Model = models that this structure is rated for, may be more than one model
 - 2) ROPS/FOPS part number
 - 3) ROPS/FOPS Serial Number
 - 4) Max. Gross Machine Weight

INTRODUCTION

- TOPS/FOPS Serial Plate - Located inside the cabin on a support post behind the operator seat at the left side, if equipped. There are four items shown on the plate:
 - 1) TOPS/FOPS part number
 - 2) TOPS/FOPS Serial Number
 - 3) Machine Model = models that this structure is rated for, may be more than one model
 - 4) Max. Gross Machine Weight

NOTE: *ROPS = Roll Over Protective Structure, TOPS = Tip Over Protective Structure, FOPS = Falling Object Protective Structure*

Reference Number Sequencing in Parts Lists

NOTE: *Reference numbers in the illustrations and parts listings may include sequencing variations of hyphens (-) and/or letters.*

FOR EXAMPLE (Ref. Nos.):

5 = Original version/configuration of a part or assembly

5-1, 5-2, etc. = The hyphen (-) indicates an updated version/configuration of Ref. No. 5, and should have an associated serial number. The highest numbered version is the latest. If a hyphenated version is shown in the parts listing, but only the non-hyphenated version is shown in the illustration, the versions are visually similar. Multiple versions may be shown in the illustration, to identify changes.

5A, 5B, etc. = These parts do not replace Ref. Nos. 5 or 5-1, they are added components and may have an associated serial number.

5-1A, 5-1B, etc. = These are added components and may have an associated serial number.

NOTE: *There may be a Ref. No. 5A without an associated Ref. No. 5 in the list. In that example, Ref. No. 5A is a newly added part and may have an associated serial number and also an additional note or remark.*

INTRODUCTION

Unless otherwise specified, all cap screws, nuts, and bolts are Grade 8.8, cadmium or zinc plated.

NOTE: *The following abbreviations may be used herein:*

ASSD	Assembled
ASSY	Assembly
AR.....	As Required
CB	Carriage Bolt
CP	Cotter Pin
CS	Cap Screw (Hexagon Head)
CYL	Cylinder
DIA	Diameter
FHCS	Flat Head Cap Screw
FOPS.....	Falling Object Protective Structure
GR.....	Grade
HB.....	Hex Bolt
HLN	Hex Lock Nut
HN.....	Hex Nut
HP	High Pressure
HYD.....	Hydraulic
INS.....	Insert
LN	Lock Nut
LT	Left
LW	Lock Washer
M.....	Meter or Meters
MM/mm.....	Millimeter
N/A	Not Available, Not Applicable
NPT.....	National Pipe Thread
OS	Oversized
ROPS	Roll Over Protective Structure
RT	Right
SHCS	Socket Head Cap Screw
SLTD.....	Slotted
SN	Serial Number or Slotted Nut
SQ	Square
TOPS.....	Tip Over Protective Structure
US	Undersized
W/	With
W/O.....	Without

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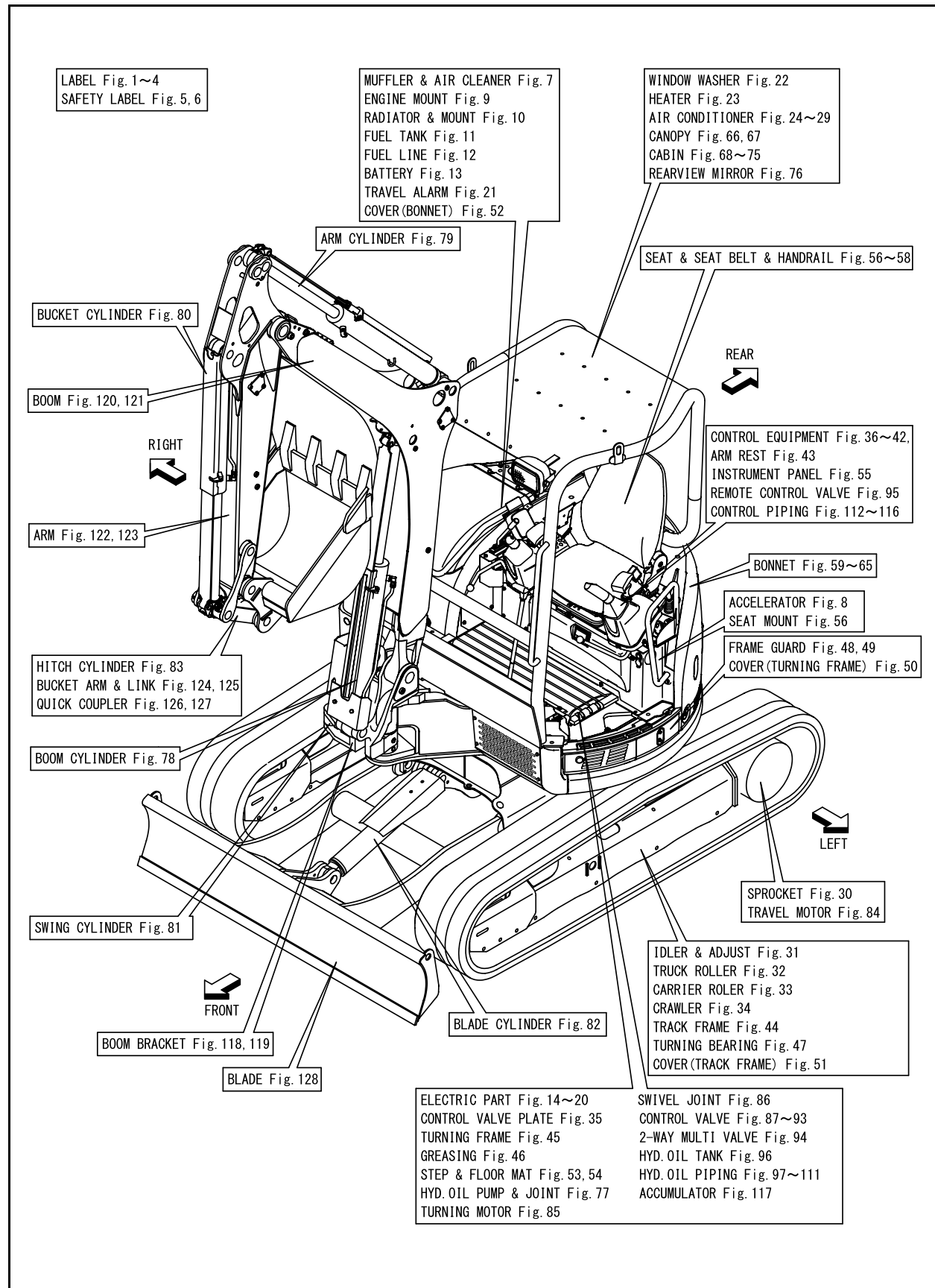
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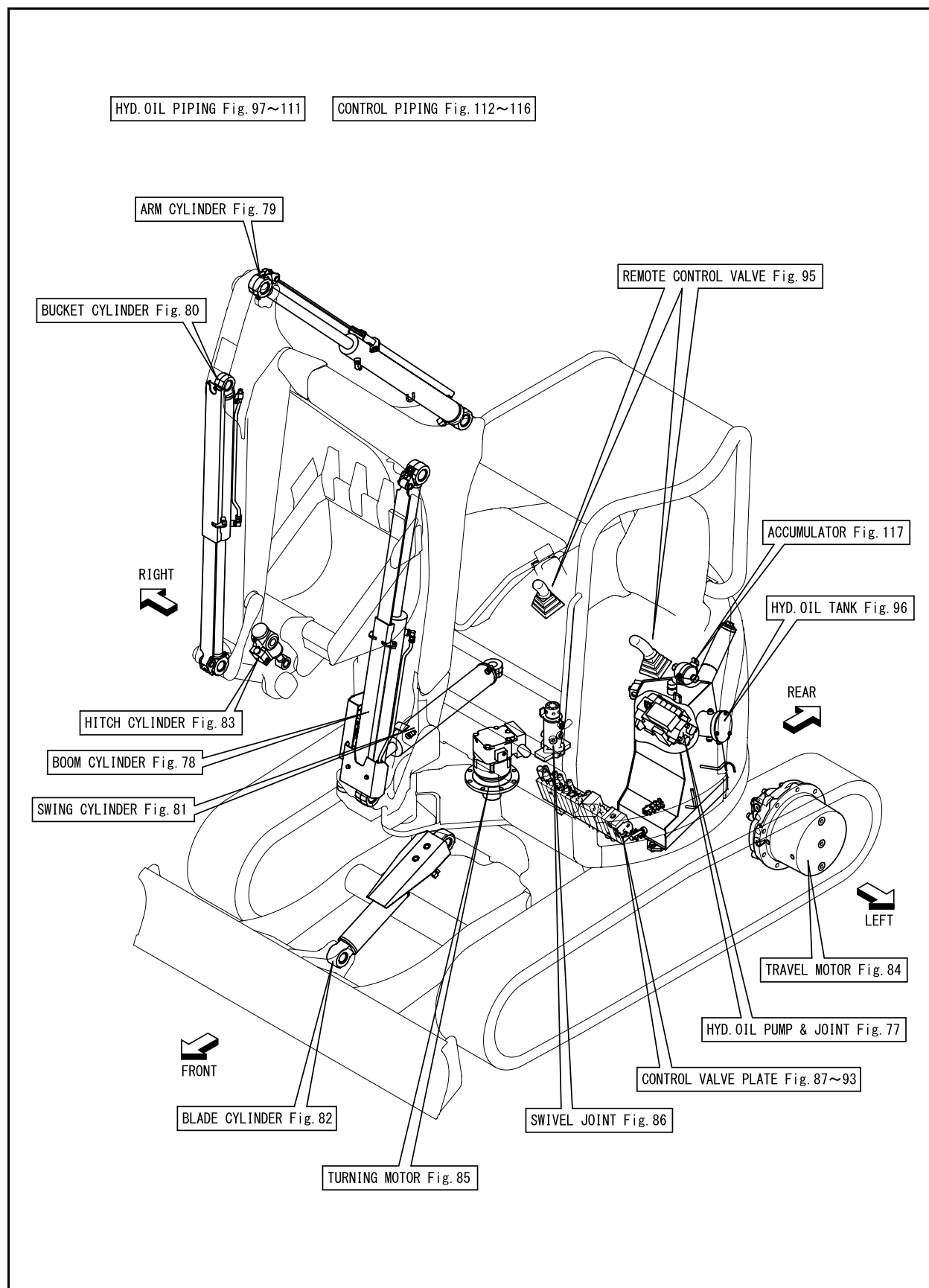
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Ref.	No.	Part No.	Description	Qty.
	1	184467	HYDRAULIC GAUGE KIT	1
	2	50301126	TEST PORT R1/8K ADAPTER (used with test gauge kits)	1
	3	184472	TEST GAUGE, 1000PSI	1
	4	184473	TEST GAUGE, 6000PSI	1
	5	184474	TEST GAUGE, 10,000PSI	1
	6	184475	TEST HOSE, 120" (used with test gauge kits)	1
	7	420-34912	ROD SEAL INSTALL TOOL, 3/4" X 1-1/4" DIAMETER SEALS	1
	8	420-34913	ROD SEAL INSTALL TOOL, 1-1/2" X 2" DIAMETER SEALS	1
	9	420-34914	ROD SEAL INSTALL TOOL, 2" X 3" DIAMETER SEALS	1
	10	195348	SERVICE TOOL/FUEL INJEC- TOR PUMP TIMING KIT	1
	11	272806	HYDRAULIC OIL ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
	12	272809	ENGINE OIL ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
	13	270811	FUEL ANALYSIS KIT (GEHL)	1
	14	272812	COOLANT ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
	15	272813	FIELD TEST COOLANT STRIP (low level visual analysis)	1
	16	272814	OIL VACUUM PUMP (use with hydraulic oil and engine oil analy- sis kits)	1
	17	272815	COOLANT VACUUM PUMP (use with coolant analysis kit)	1
	18	272816	1/4" PLASTIC TUBING, 100' (bulk roll, use with hydraulic oil, engine oil and coolant analysis kits)	1
	19	167788	GEHL 4-PK QT EXCAVATOR CONSTRUCTION YELLOW	1
	20	167754	GEHL 4-PK QT GUNMETAL GRAY	1
	21	167789	GEHL 6-PK SPRAY EXCAVATOR CONSTRUCTION YELLOW, 12.8 OZ.	1
	22	167755	GEHL 6-PK SPRAY GUNMETAL GRAY, 12.8 OZ.	1

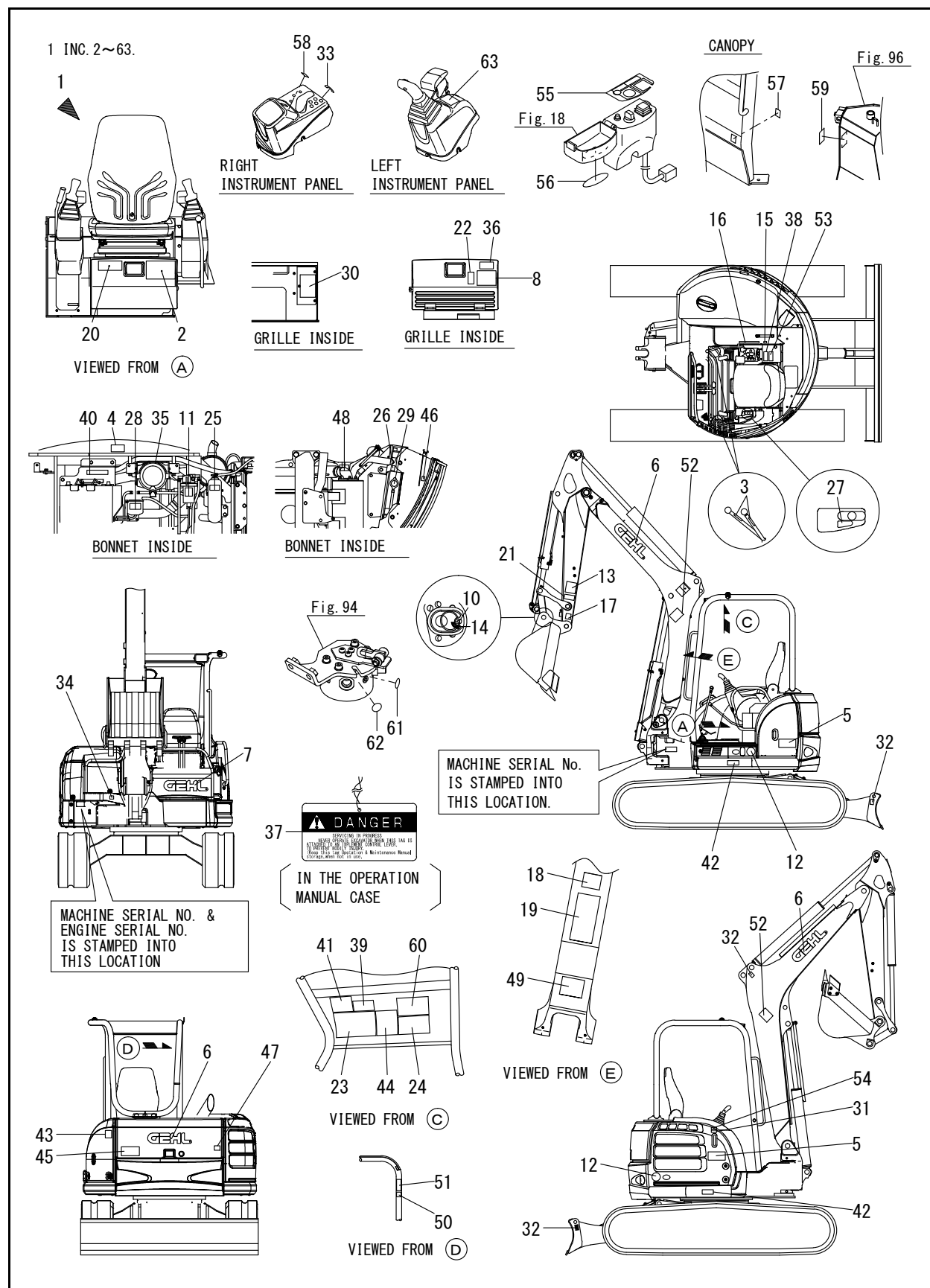
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FIGURE INDEX (1) - MAIN PARTS



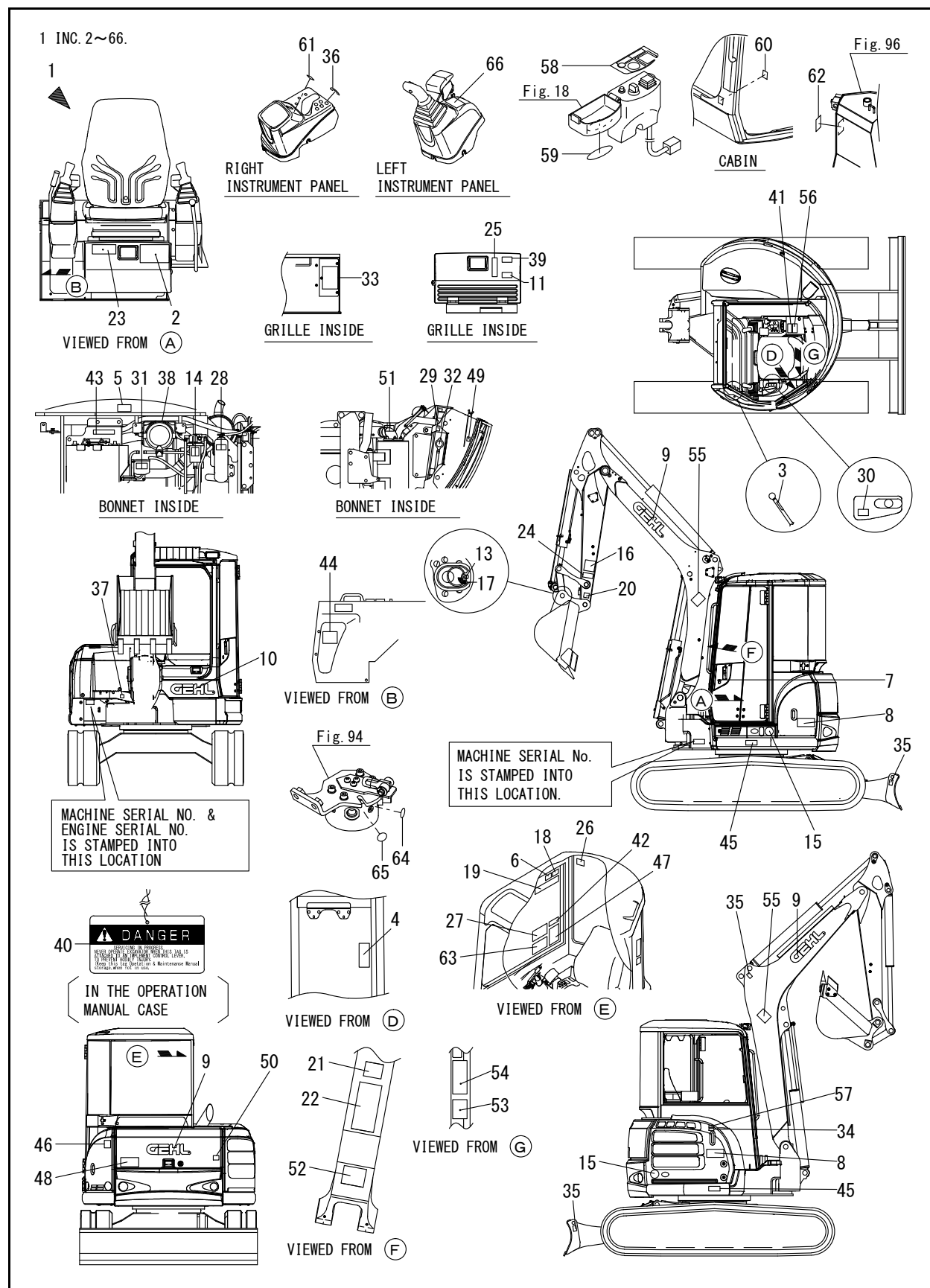


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FIG. 1 - LABEL (CANOPY)



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
2	50281172	LABEL, SUPPORT US	2	50	50281031	LABEL, ROPS US	1
3	50280917	LABEL, LOCK	2	51	50281032	LABEL, SEAT BELT US	1
4	50281425	LABEL, ENG ROOM	1	52	50282884	LABEL, BOOM US	2
5	50300834	DECAL/Z45	2	53	50281033	LABEL, LEVER LOCK US	1
6	183935	DECAL/GEHL 5.50 X 23.34	3	54	197868	LABEL/FUEL OIL NOTI	1
7	184305	DECAL/GEHL 2.75 X 11.67 (WHITE)	1	55	50281179	LABEL, SWITCH	1
8	50283226	LABEL, GREASING	1	56	50301147	LABEL, COVER	1
10	50281361	LABEL	1	57	50283350	LABEL, PTO FOOT	1
11	50281407	LABEL	1	58	50283351	LABEL, PTO SWITCH	1
12	50300780	DECAL/ZERO TAIL	2	59	50283352	LABEL, PTO SELECT	1
13	50281173	LABEL, OPERATION PIN	1	60	50281037	LABEL, 2-WAY US	1
14	50281130	LABEL, LOCK	1	61	50281038	LABEL	1
15	50281174	LABEL, PIN US	1	62	50281039	LABEL	1
16	50281175	LABEL, OPERATION Q US	1	63	50283362	LABEL, PTO EX	1
17	50281176	LABEL, FINGER US	1				
18	50281177	LABEL, SAND US	1				
19	50281178	LABEL, WARNING HITCH	1				
20	50283923	LABEL SPEC US	1				
21	50281181	LABEL, LOCK PIN(US	1				
22	50283357	LABEL, OIL & WATER	1				
23	50283361	LABEL, LIFT Q US	1				
24	50283251	LABEL	1				
25	50281458	LABEL, SUB-TANK US	1				
26	50281459	LABEL, ANTI-FREEZING	1				
27	50282950	LABEL, ACCELERATOR	1				
28	50281149	LABEL, HYD.OIL US	1				
29	50281147	LABEL	1				
30	50283359	LABEL, FUSE US	1				
31	50281034	LABEL, FUEL US	1				
32	50281035	LABEL, HOOK US	3				
33	50281498	LABEL, STARTER	1				
34	50280846	LABEL, GREASE	1				
35	50280797	LABEL, AIR CLEANER	1				
36	50282883	LABEL, CRAWLER US	1				
37	50281018	TAG ASSY, CAUTION	1				
38	50281019	LABEL, MANUAL US	1				
39	50281020	LABEL, SLOPE US	1				
40	50281021	LABEL, HYD.OIL TANK	1				
41	50281022	LABEL, TRANSPORT US	1				
42	50281023	LABEL, GREASE CYL.	2				
43	50281024	LABEL, BATTERY US	1				
44	50281025	LABEL, NEUTRAL US	1				
45	50281026	LABEL, SWING AREA US	1				
46	50281027	LABEL, RADIATOR US	1				
47	50281028	LABEL, ENG, COVER US	1				
48	50281029	LABEL, MUFFLER US	1				
49	50281030	LABEL, STEERING US	1				

FIG. 2 - LABEL (CABIN)

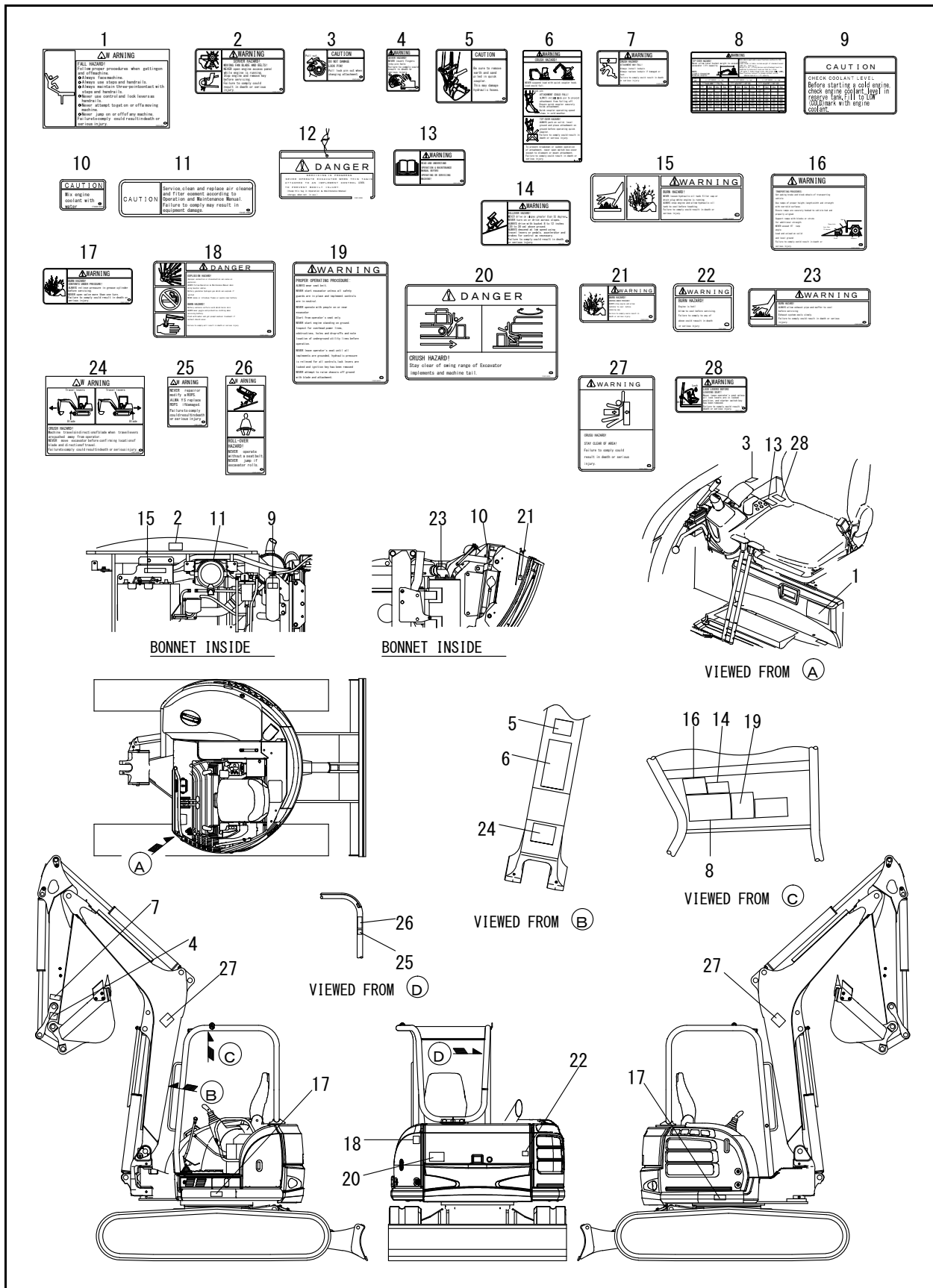


Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
2	50281172	LABEL, SUPPORT US	1	51	50281029	LABEL, MUFFLER US	1
3	50280917	LABEL, LOCK	1	52	50281030	LABEL, STEERING US	1
4	50283217	LABEL, F/W LOWER US	1	53	50281031	LABEL, ROPS US	1
5	50281425	LABEL, ENG ROOM	1	54	50281032	LABEL, SEAT BELT US	1
6	50281036	LABEL, WINDOW US	1	55	50282884	LABEL, BOOM US	2
7	50282952	LABEL, DOOR KEY LOCK	1	56	50281033	LABEL, LEVER LOCK US	1
8	50300834	DECAL/Z45	2	57	197868	LABEL/FUEL OIL NOTI	1
9	183935	DECAL/GEHL 5.50 X 23.34	3	58	50281179	LABEL, SWITCH	1
10	184305	DECAL/GEHL 2.75 X 11.67 (WHITE)	1	59	50301147	LABEL, COVER	1
11	50283226	LABEL, GREASING	1	60	50283350	LABEL, PTO FOOT	1
13	50281361	LABEL	1	61	50283351	LABEL, PTO SWITCH	1
14	50281407	LABEL	1	62	50283352	LABEL, PTO SELECT	1
15	50300780	DECAL/ZERO TAIL	2	63	50281037	LABEL, 2-WAY US	1
16	50281173	LABEL, OPERATION PIN	1	64	50281038	LABEL	1
17	50281130	LABEL, LOCK	1	65	50281039	LABEL	1
18	50281174	LABEL, PIN US	1	66	50283362	LABEL, PTO EX	1
19	50281175	LABEL, OPERATION Q US	1				
20	50281176	LABEL, FINGER US	1				
21	50281177	LABEL, SAND US	1				
22	50281178	LABEL, WARNING HITCH	1				
23	50283923	LABEL SPEC US	1				
24	50281181	LABEL, LOCK PIN(US	1				
25	50283357	LABEL, OIL & WATER	1				
26	50283361	LABEL, LIFT Q US	1				
27	50283251	LABEL	1				
28	50281458	LABEL, SUB-TANK US	1				
29	50281459	LABEL, ANTI-FREEZING	1				
30	50282950	LABEL, ACCELERATOR	1				
31	50281149	LABEL, HYD.OIL US	1				
32	50281147	LABEL	1				
33	50283359	LABEL, FUSE US	1				
34	50281034	LABEL, FUEL US	1				
35	50281035	LABEL, HOOK US	3				
36	50281498	LABEL, STARTER	1				
37	50280846	LABEL, GREASE	1				
38	50280797	LABEL, AIR CLEANER	1				
39	50282883	LABEL, CRAWLER US	1				
40	50281018	TAG ASSY, CAUTION	1				
41	50281019	LABEL, MANUAL US	1				
42	50281020	LABEL, SLOPE US	1				
43	50281021	LABEL, HYD.OIL TANK	1				
44	50281022	LABEL, TRANSPORT US	1				
45	50281023	LABEL, GREASE CYL.	2				
46	50281024	LABEL, BATTERY US	1				
47	50281025	LABEL, NEUTRAL US	1				
48	50281026	LABEL, SWING AREA US	1				
49	50281027	LABEL, RADIATOR US	1				
50	50281028	LABEL, ENG, COVER US	1				

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FIG. 5 - SAFETY LABEL (CANOPY)

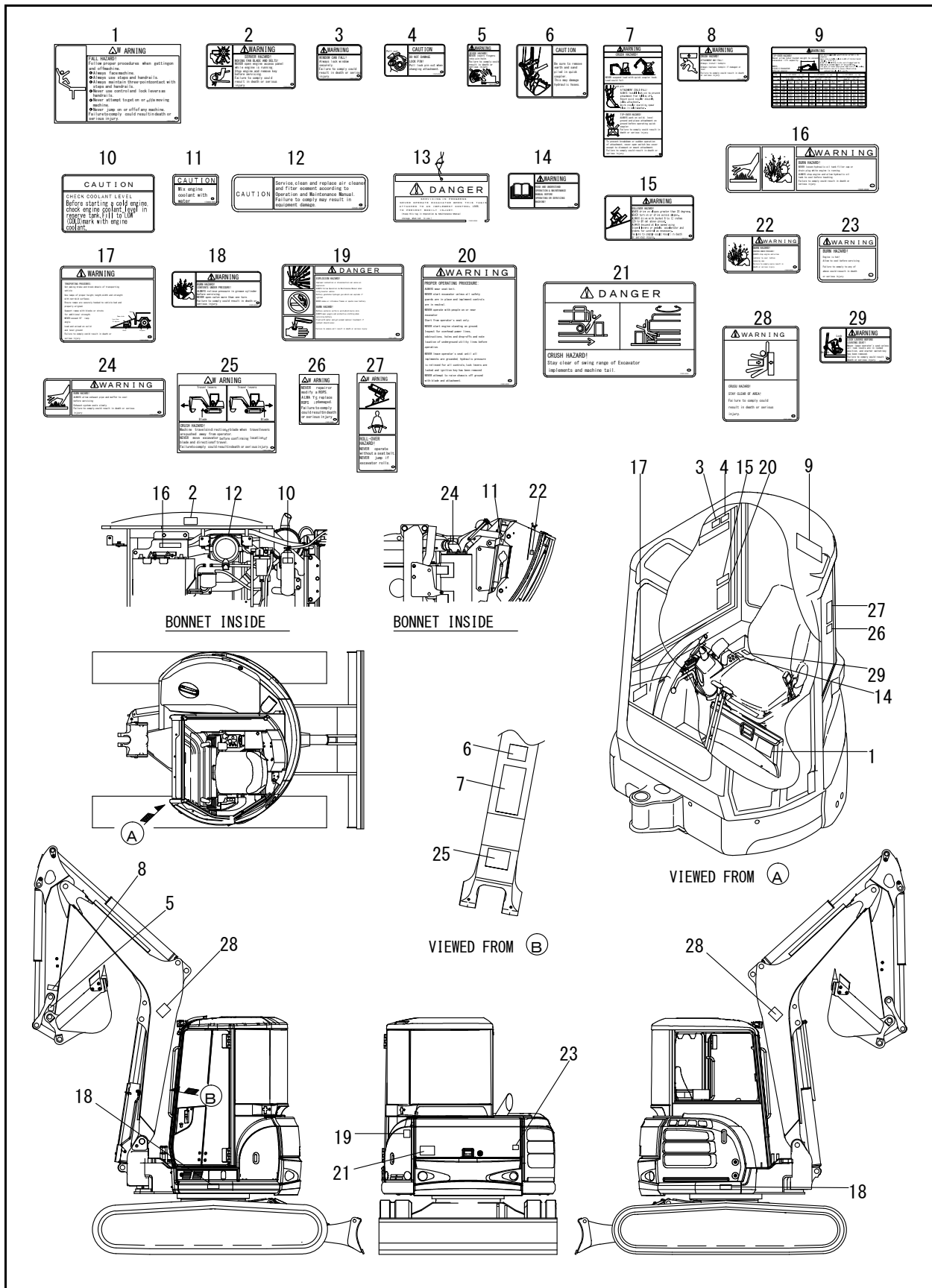


Ref.	No.	Part No.	Description	Qty.
	1	50281172	LABEL, SUPPORT US	2
	2	50281425	LABEL, ENG ROOM	1
	3	50281174	LABEL, PIN US	1
	4	50281176	LABEL, FINGER US	1
	5	50281177	LABEL, SAND US	1
	6	50281178	LABEL, WARNING HITCH	1
	7	50281181	LABEL, LOCK PIN(US	1
	8	50283361	LABEL, LIFT Q US	1
	9	50281458	LABEL, SUB-TANK US	1
	10	50281459	LABEL, ANTI-FREEZING	1
	11	50280797	LABEL, AIR CLEANER	1
	12	50281018	TAG ASSY, CAUTION	1
	13	50281019	LABEL, MANUAL US	1
	14	50281020	LABEL, SLOPE US	1
	15	50281021	LABEL, HYD.OIL TANK	1
	16	50281022	LABEL, TRANSPORT US	1
	17	50281023	LABEL, GREASE CYL.	2
	18	50281024	LABEL, BATTERY US	1
	19	50281025	LABEL, NEUTRAL US	1
	20	50281026	LABEL, SWING AREA US	1
	21	50281027	LABEL, RADIATOR US	1
	22	50281028	LABEL, ENG, COVER US	1
	23	50281029	LABEL, MUFFLER US	1
	24	50281030	LABEL, STEERING US	1
	25	50281031	LABEL, ROPS US	1
	26	50281032	LABEL, SEAT BELT US	1
	27	50282884	LABEL, BOOM US	2
	28	50281033	LABEL, LEVER LOCK US	1

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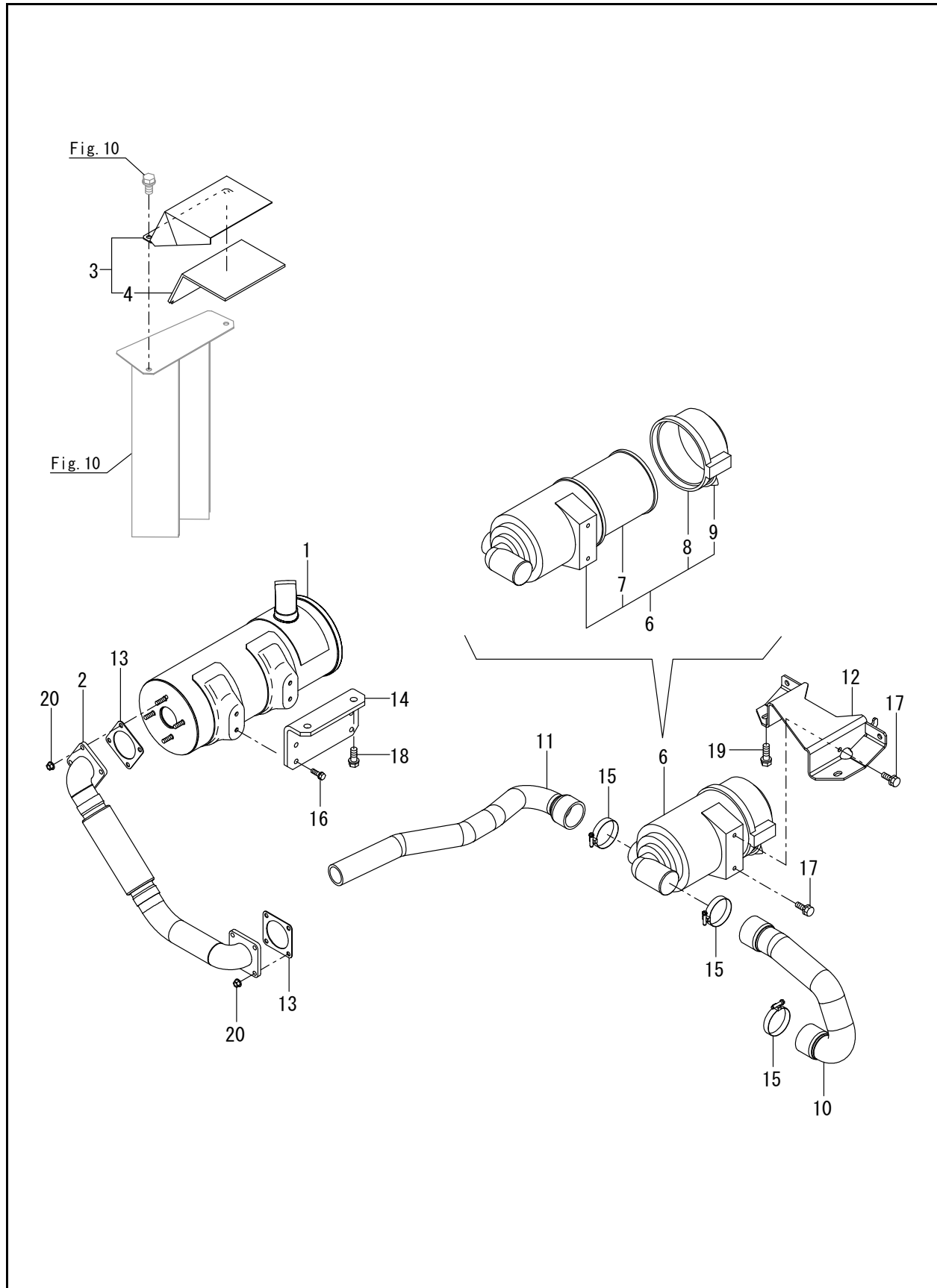
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FIG. 6 - SAFETY LABEL (CABIN)



Ref.	No.	Part No.	Description	Qty.
	1	50281172	LABEL, SUPPORT US	1
	2	50281425	LABEL, ENG ROOM	1
	3	50281036	LABEL, WINDOW US	1
	4	50281174	LABEL, PIN US	1
	5	50281176	LABEL, FINGER US	1
	6	50281177	LABEL, SAND US	1
	7	50281178	LABEL, WARNING HITCH	1
	8	50281181	LABEL, LOCK PIN(US	1
	9	50283361	LABEL, LIFT Q US	1
	10	50281458	LABEL, SUB-TANK US	1
	11	50281459	LABEL, ANTI-FREEZING	1
	12	50280797	LABEL, AIR CLEANER	1
	13	50281018	TAG ASSY, CAUTION	1
	14	50281019	LABEL, MANUAL US	1
	15	50281020	LABEL, SLOPE US	1
	16	50281021	LABEL, HYD.OIL TANK	1
	17	50281022	LABEL, TRANSPORT US	1
	18	50281023	LABEL, GREASE CYL.	2
	19	50281024	LABEL, BATTERY US	1
	20	50281025	LABEL, NEUTRAL US	1
	21	50281026	LABEL, SWING AREA US	1
	22	50281027	LABEL, RADIATOR US	1
	23	50281028	LABEL, ENG, COVER US	1
	24	50281029	LABEL, MUFFLER US	1
	25	50281030	LABEL, STEERING US	1
	26	50281031	LABEL, ROPS US	1
	27	50281032	LABEL, SEAT BELT US	1
	28	50282884	LABEL, BOOM US	2
	29	50281033	LABEL, LEVER LOCK US	1

FIG. 7 - SILENCER & AIR CLEANER

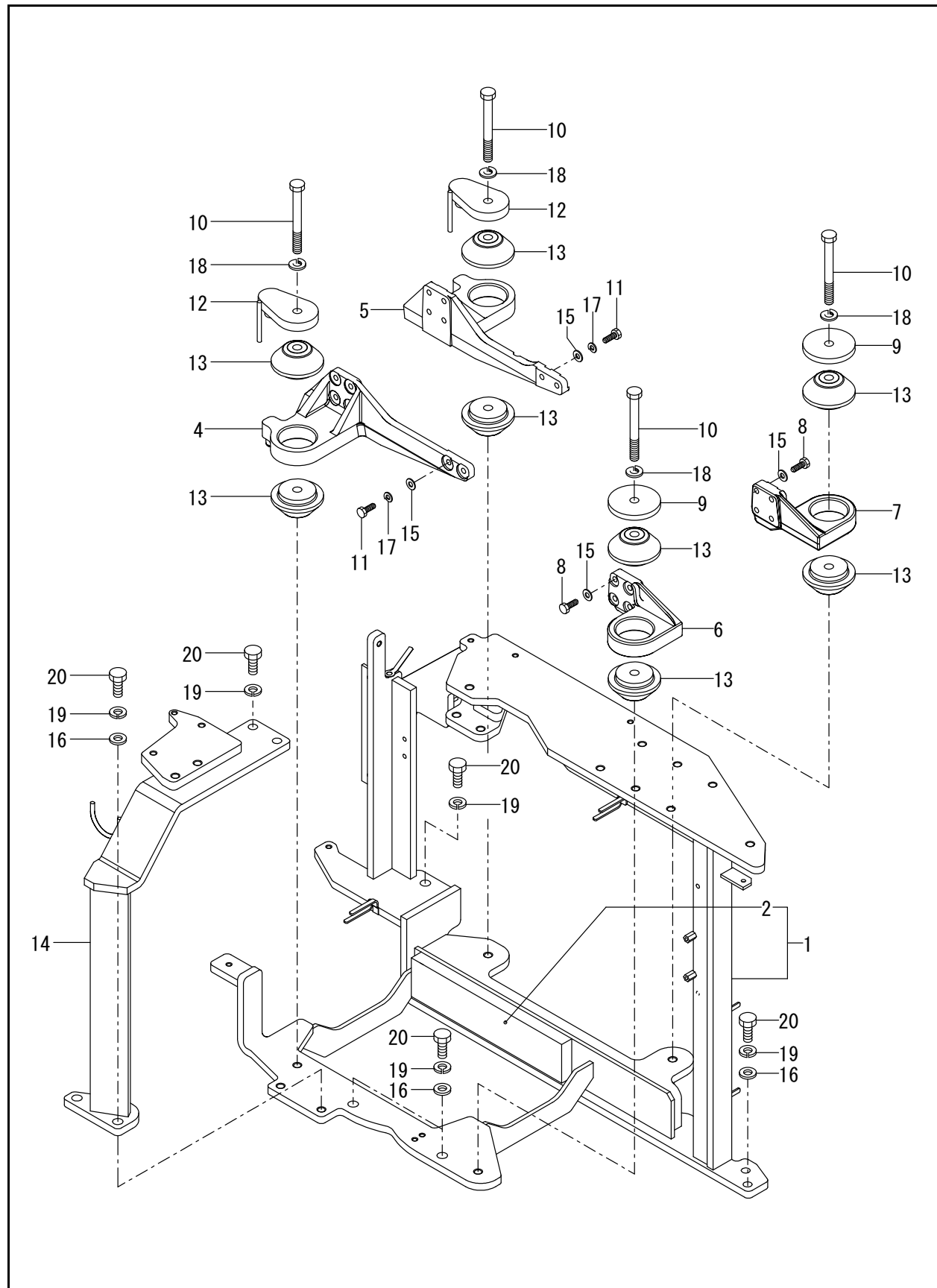


Ref. No.	Part No.	Description	Qty.
1	50283371	SILENCER ASSY (use with label 21A)	1
2	50283202	TUBE ASSY	1
3	50283373	GUARD D ASSY,MUFFLER	1
4	50283374	GLASSWOOL,GUARD D	1
6	50283375	CLEANER ASS,AIR	1
7	50282682	ELEMENT, AIR CLEANER	1
8	50282680	COVER ASSY (use with label 21B)	1
9	50280727	VALVE, UNLOADER	1
10	50283928	HOSE A,AIRCLEANER	1
11	50283929	HOSE B,ASSY	1
12	50283378	BRACKET ASSY	1
13	425-34652	GASKET	2
14	50283391	BRACKET,MUFFLER	1
15	425-36133	CLAMP 70	3
16	50282508	BOLT M 8X 25	4
17	50282508	BOLT M 8X 25	2
18	50282525	BOLT W/WASHER M12X30	2
19	50282539	BOLT 10X25 W/PLW+SPW	2
20	50282548	NUT M 8	8
21A	50281029	LABEL, MUFFLER US (see Page 4, Page 6)	1
21B	50280797	LABEL, AIR CLEANER (see Page 4, Page 6)	1



Ref. No.	Part No.	Description	Qty.
1	50283257	BRACKET	1
2	50283380	CABLE, ACCELERATOR	1
3	50282507	BOLT W/WASHER M8X20	2
4	50283379	BRACKET, CABLE	1
5	50283381	CABLE LEVER	1
6	50285139	GRIP	1
7	50282719	JOINT, CABLE	1
8	50282690	PIN	1
9	50282725	BOOTS	1
10	50284017	PIN 6, COME-OFF SNAP	2
11	50284007	PIN 6 X 17	1
12	50282379	WASHER 6, POLISHED	2
13	50282516	BOLT W/WASHER M10X25	2
14	50282516	BOLT W/WASHER M10X25	2

FIG. 9 - ENGINE MOUNT



Ref.	No.	Part No.	Description	Qty.
	1	50283930	ASSY,ENG MT	1
	2	50283931	EV,ENG MT	1
	4	50283258	MOUNT RF,ENG	1
	5	50283259	MOUNT, ENGINE	1
	6	50283203	MOUNT, ENGINE	1
	7	50283204	MOUNT, ENGINE	1
	8	50283205	BOLT M10 X 40	8
	9	50280851	WASHER	2
	10	50280853	BOLT M16X150	4
	11	50282770	BOLT M10X30	12
	12	50282793	STOPPER ASSY	2
	13	50282794	MOUNT,ENGINE	8
	14	50283399	BRACKET ASSY	1
	15	50280803	SEAT, SPRING	20
	16	50282382	WASHER 16,POLISHED	5
	17	50282393	SPRING WASHER 10	12
	18	50282396	SPRING WASHER 16	4
	19	50282396	SPRING WASHER 16	10
	20	50282552	BOLT 10.9 16X40	10

Z45 - COMPACT EXCAVATOR

FIG. 10 - RADIATOR & MOUNT

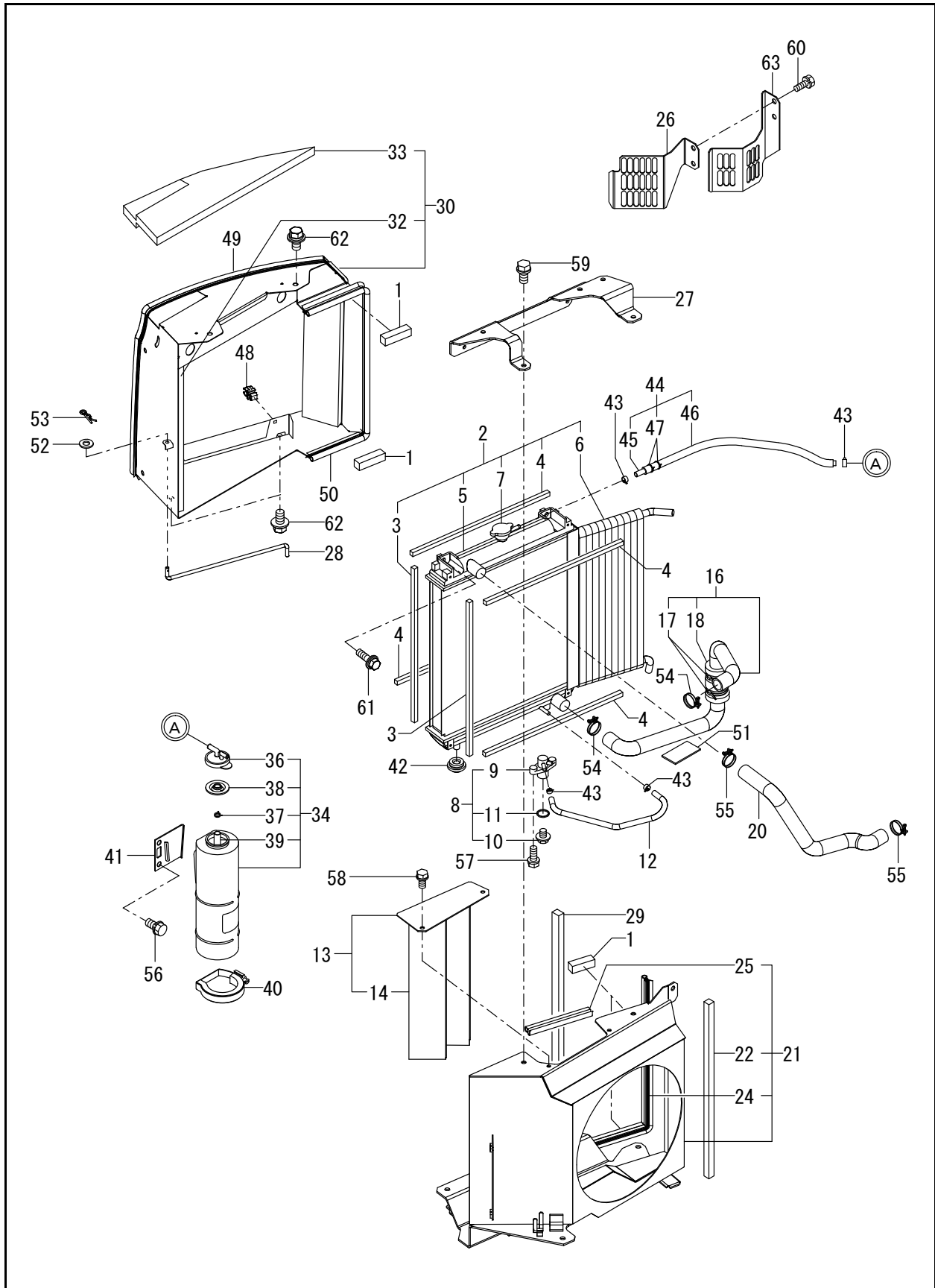
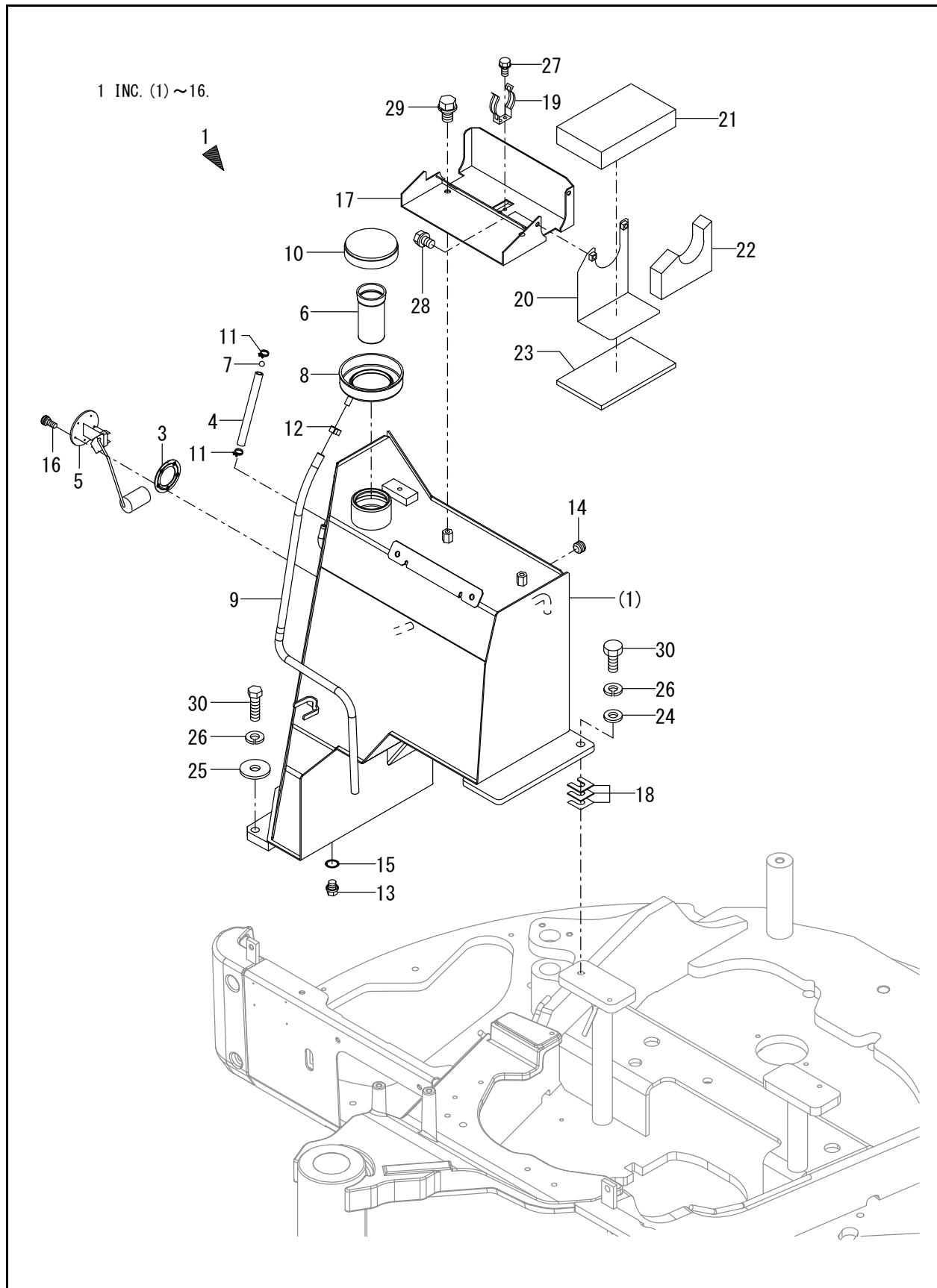


FIG. 10 - RADIATOR & MOUNT

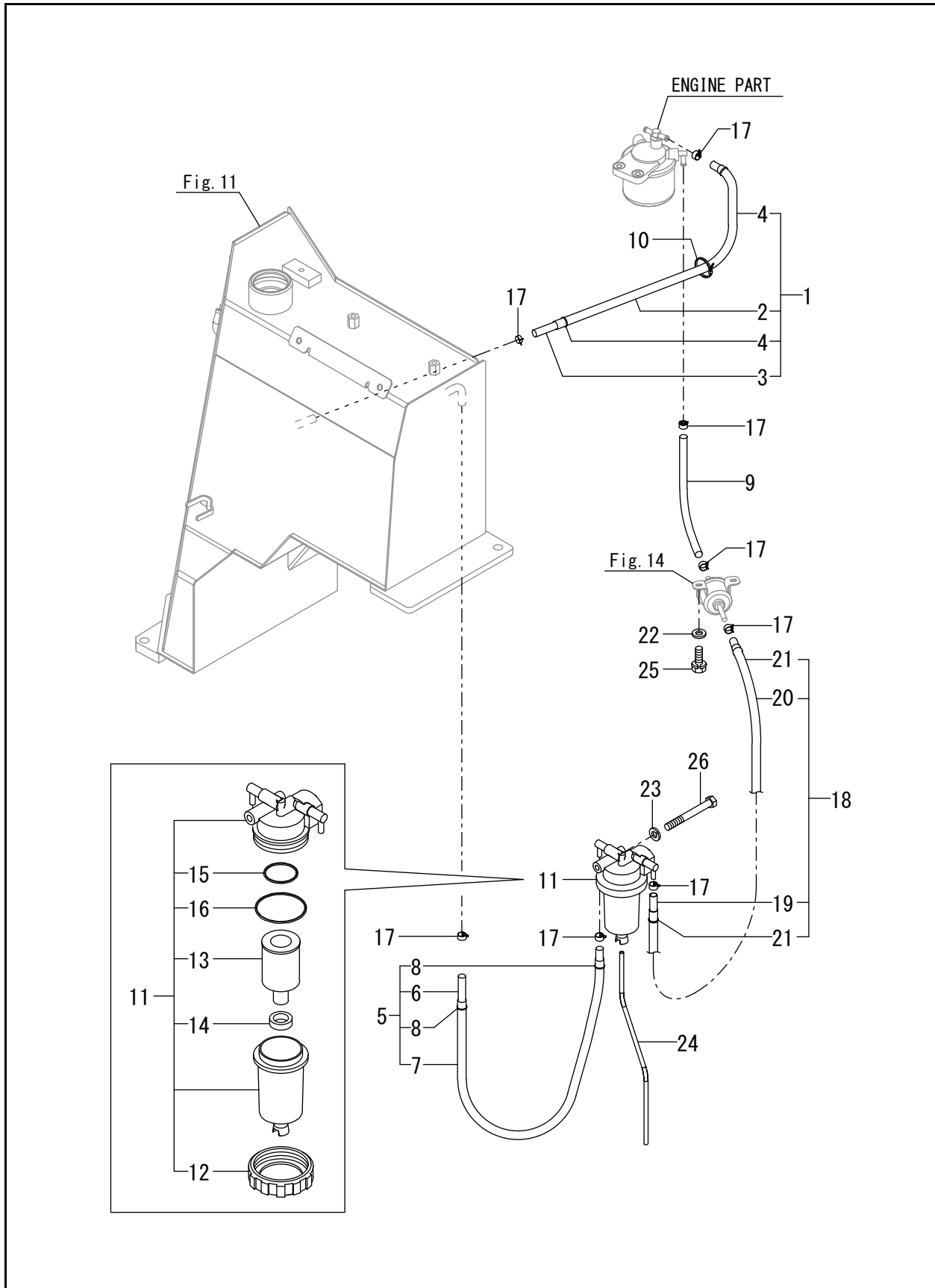
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50283386	SEAL 200	4	52	50282380	WASHER 8, POLISHED	1
2	50283387	RADIATOR ASSY	1	53	50282415	SNAP PIN (JASO 8)	1
3	50283382	PACKING,T26	2	54	50282430	CLIP 41,HOSE	2
4	50283383	PACKING,T10	4	55	50282431	CLIP, HOSE	2
5	50283388	RADIATOR	1	56	50282505	BOLT M 8X 12	2
6	50283389	OIL COOLER	1	57	50282507	BOLT W/WASHER M8X20	2
7	186470	CAP RADIATOR	1	58	50282507	BOLT W/WASHER M8X20	2
8	50281046	COCK ASSY,2-WAY	1	59	50282515	BOLT W/WASHER M10X20	2
9	50281047	BODY	1	60	50282516	BOLT W/WASHER M10X25	2
10	50280728	PLUG	1	61	50284104	BOLT M8 X 30	2
11	425-34744	O-RING 1A P-16.0	1	62	50282538	BOLT M10X 20	4
12	50282710	HOSE	1	63	50283401	GUARD,FAN LOWER	1
13	50283393	COVER ASSY	1	64A	50281459	LABEL,ANTI-FREEZING (see Page 4, Page 6)	1
14	50283394	EV,COVER	2	64B	50281027	LABEL, RADIATOR US (see Page 4, Page 6)	1
16	50283395	PIPE ASSY, C.W.	1	64C	50281458	LABEL, SUB-TANK US (see Page 4, Page 6)	1
17	50280798	BAND 300	2				
18	50283392	SPNGE,HOSE	1				
20	50283396	CW-T B	1				
21	50283397	SHROUD ASSY	1				
22	50283385	SEAL 450	1				
24	50283244	RUBBER,SEAL 290	1				
25	50282775	SEAL,COVER B	1				
26	50283398	GUARD,FAN	1				
27	50283400	BRACKET ASSY (use with label 64A)	1				
28	50283402	HOOK	1				
29	50283403	SEAL,SHROUD	1				
30	50283404	DUCT ASSY (use with label 64B)	1				
32	50283409	EV,B	1				
33	50283410	EV,C	1				
34	50280743	SUB-TANK ASSY (use with label 64C)	1				
36	186359	CAP	1				
37	186461	CLAMP	1				
38	186361	GASKET	1				
39	50282436	HOSE 7X 225	1				
40	425-36235	BAND	1				
41	50280729	BRACKET, SUB-TANK	1				
42	50282346	RUBBER, RADIATOR	2				
43	425-34916	CLAMP 12	4				
44	50283996	HOSE ASSY, FUEL OIL	1				
45	50282724	HOSE, FUEL	1				
46	50283997	TUBE, CORRUGATE	1				
47	50284153	BAND 146	2				
48	50282365	HOLDER, ROD 8	1				
49	50283243	RUBBER,SEAL 1110	2				
50	50282789	RUBBER, SEAL B	1				
51	50282898	RUBBER	1				

FIG. 11 - FUEL TANK



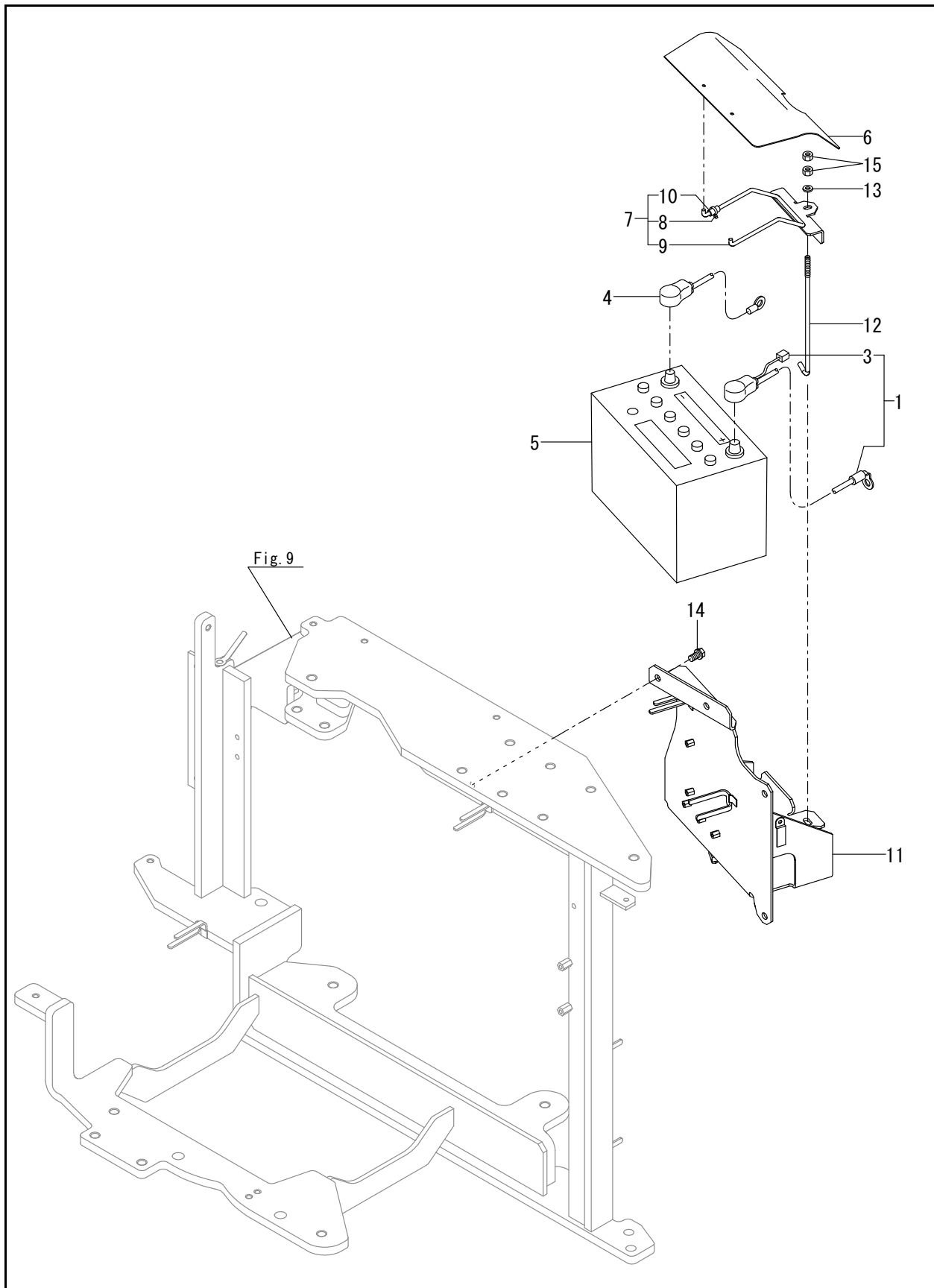
Ref.	No.	Part No.	Description	Qty.
	1	50284147	FUEL TANK (GRAY:49)	1
	3	50280854	GASKET	1
	4	50283405	HOSE,FO.GAUGE	1
	5	50282080	GAUGE UNIT, FUEL	1
	6	50282836	FILTER FUEL	1
	7	50282723	FLOAT	1
	8	50282953	CUP,FUEL OIL	1
	9	50283407	HOSE	1
	10	50282673	CAP, FUEL TANK	1
	11	50284065	CLAMP 14	2
	12	50282437	CLAMP 13,HOSE	1
	13	50284068	PLUG 14	1
	14	188723	PLUG PT 1/2	1
	15	425-34744	O-RING 1A P-16.0	1
	16	425-36271	SCREW M 5 X 12	5
	17	50283369	PLATE ASSY,TOOL BOX	1
	18	50282693	SPACER (M20)	1
	19	50280784	BRACKET, GREASE PUMP	1
	20	50283550	PLATE,EV ASSY	1
	21	50283564	EV,INTAKE	1
	22	50283566	EV A,COVER	1
	23	50283567	EV B,COVER	1
	24	50284042	WASHER 14,POLISHED	2
	25	50282389	WASHER, 14	1
	26	188712	SPRING/WASHER 14	3
	27	50282501	BOLT M 6X 12	2
	28	50282505	BOLT M 8X 12	2
	29	50282514	BOLT M10X 16	2
	30	50282567	BOLT M14X 35 PLATED	3

FIG. 12 - FUEL LINE



Ref.	No.	Part No.	Description	Qty.
	1	50283406	FO.HOSE 1850 ASSY	1
	2	50284000	TUBE, CORRUGATE	1
	3	50286591	HOSE	1
	4	50284153	BAND 146	2
	5	50283932	HOSE 1430 ASSY ,FUEL	1
	6	50286515	FUEL HOSE	1
	7	50282911	TUBE, CORRUGATE	1
	8	50284153	BAND 146	2
	9	50282837	HOSE	1
	10	50280802	BAND	2
	11	50282349	SEPARATOR ASSY,WATER	1
	12	425-34924	RING, RETAINING	1
	13	186340	FILTER	1
	14	50286600	FLOAT	1
	15	425-34744	O-RING 1A P-16.0	1
	16	425-34927	O-RING 1A G65	1
	17	425-34916	CLAMP 12	8
	18	50283998	PIPE ASSY, FUEL 1050	1
	19	50286461	HOSE	1
	20	50283999	TUBE, CORRUGATE	1
	21	50284153	BAND 146	2
	22	50282379	WASHER 6, POLISHED	1
	23	50282392	WASHER, 8	1
	24	50284066	PIPE,VINYL 5	1
	25	50282502	BOLT M 6X 16	1
	26	50284116	BOLT M8 X 70 PLATED	1

FIG. 13 - BATTERY



Ref. No.	Part No.	Description	Qty.
1	50283412	CORD ASSY,BATTERY	1
3	50283995	HARNESS C	1
4	50283415	CORD BATTERY	1
5	N/A	BATTERY *	1
6	50283417	COVER,BATTERY	1
7	50283418	CLAMP,BATTERY (GRAY: 49)	1
8	50280798	BAND 300	1
9	50283077	CLAMP ASSY, BATTERY	1
10	50283329	HOSE,CLAMP	1
11	50283420	MOUNT BATTERY ASSY (use with label 16A)	1
12	50280887	ROD	1
13	50282380	WASHER 8, POLISHED	1
14	50282515	BOLT W/WASHER M10X20	4
15	50282596	NUT M 8	2
16A	50281021	LABEL, HYD.OIL TANK (see Page 4, Page 6)	1

NOTE: * Purchase locally. Group size 27; 620 CCA.

FIG. 14 - ELECTRIC PART (AROUND ENGINE)

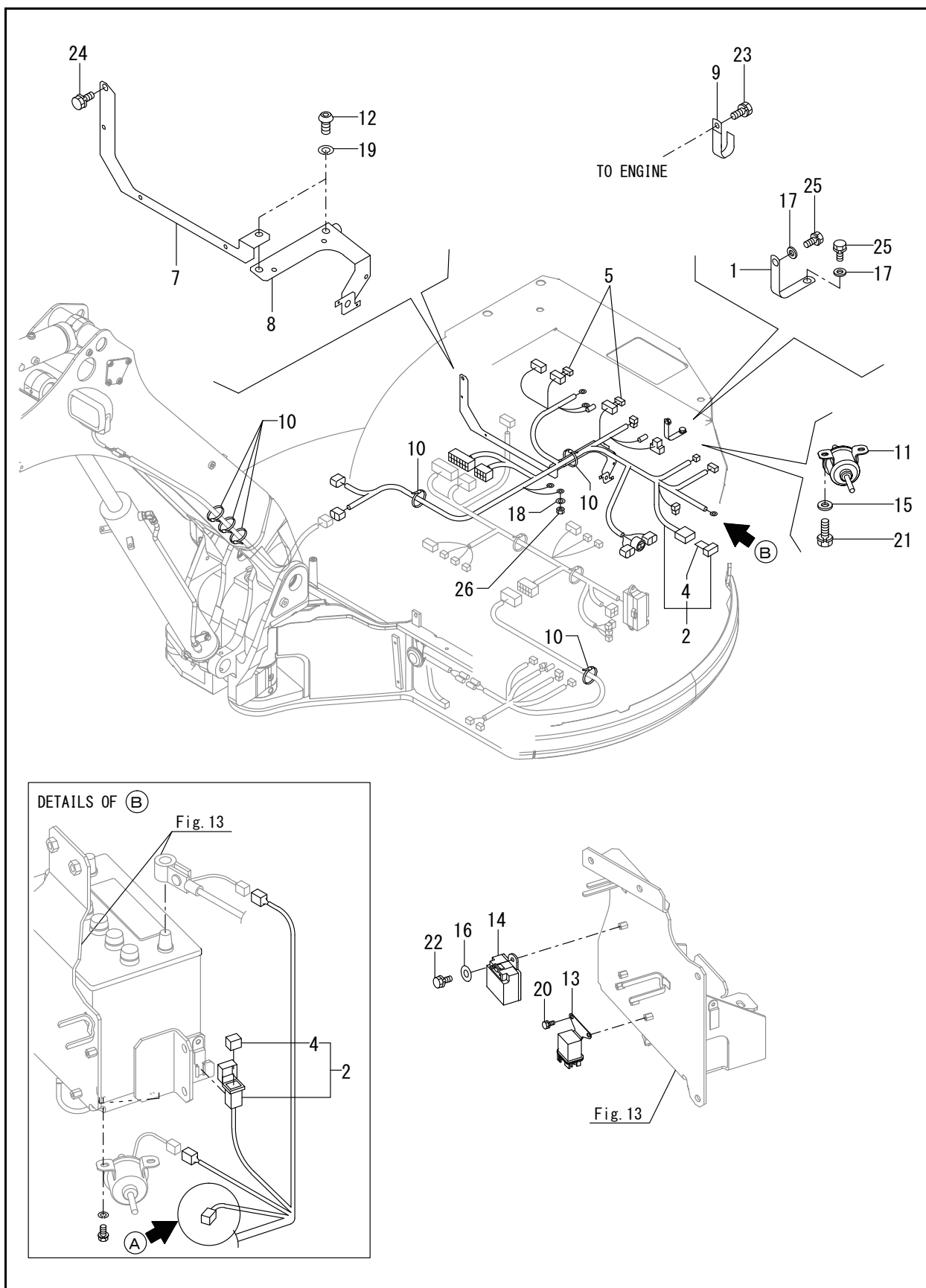
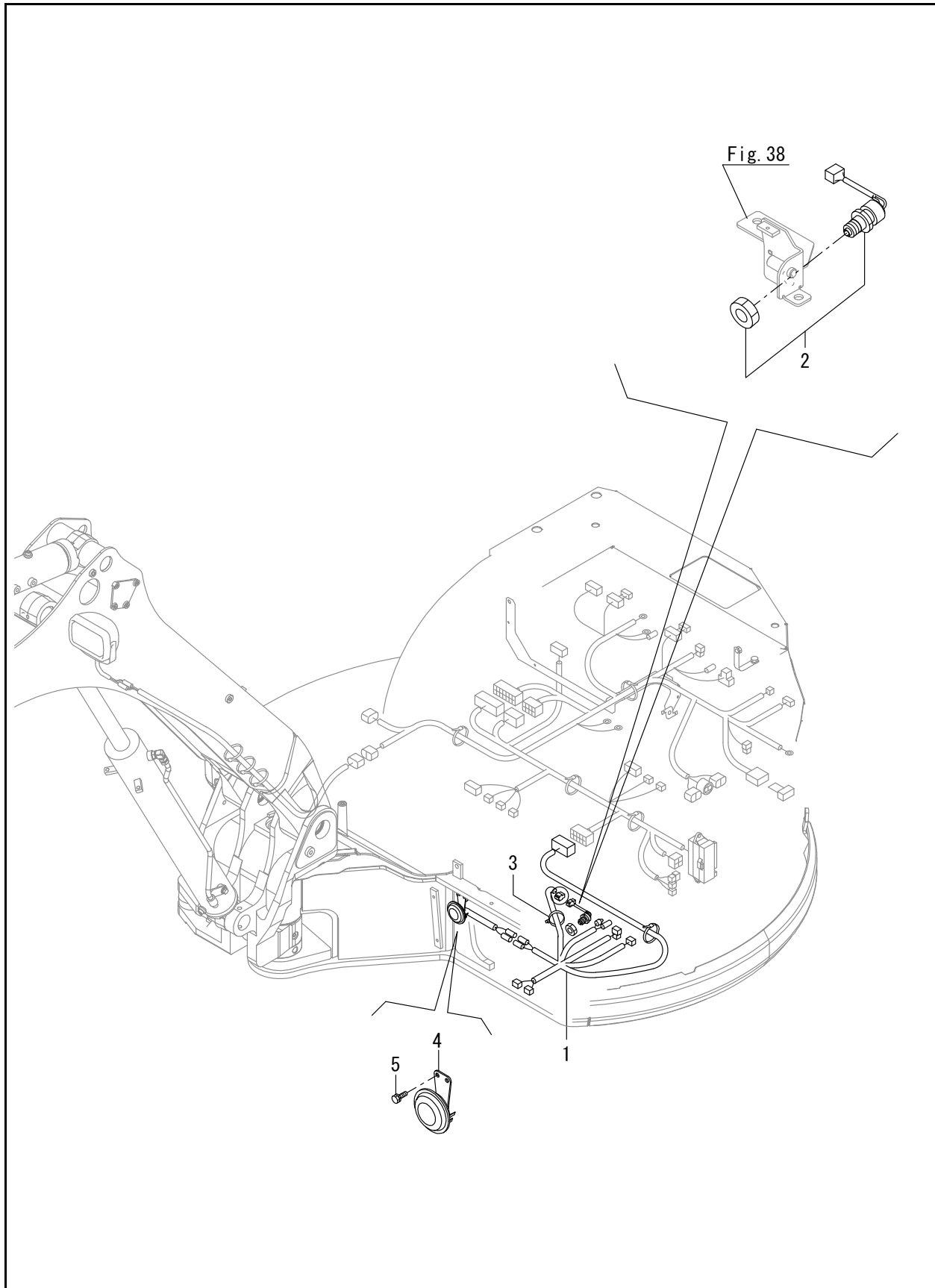


FIG. 14 - ELECTRIC PART (AROUND ENGINE)

Ref.	No.	Part No.	Description	Qty.
	1	50283416	WIRE,ENGINE GROUND	1
	2	50283934	HARNESS A ASSY	1
	4	50282955	FUSE,SLOW BLOW (50A)	1
	5	50281346	DIODE	2
	7	50283264	SUPPORT B,HARNESS	1
	8	50283252	SUPPORT A,CONNECTOR	1
	9	50284002	CLAMP, WIRE HARNESS	1
	10	50284003	BAND	6
	11	186483	FUEL PUMP	1
	12	50281073	BOLT M 10X20	2
	13	50282677	RELAY ASSY, GLOW	1
	14	50280735	TIMER	1
	15	50282379	WASHER 6, POLISHED	2
	16	50282379	WASHER 6, POLISHED	1
	17	138111	WASHER/POLISHED	2
	18	425-34891	SPRING WASHER 6	1
	19	50282393	SPRING WASHER 10	2
	20	50282501	BOLT M 6X 12	2
	21	50282502	BOLT M 6X 16	2
	22	50282502	BOLT M 6X 16	1
	23	50282505	BOLT M 8X 12	1
	24	50282514	BOLT M10X 16	1
	25	50282515	BOLT W/WASHER M10X20	3
	26	138143	NUT	1

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FIG. 15 - ELECTRIC PART (AROUND FRAME)



Ref.	No.	Part No.	Description	Qty.
	1	50283422	HARNESS C	1
	2	50284018	SWITCH ASSY	1
	3	50282352	BAND	1
	4	50282351	HORN	1
	5	50282501	BOLT M 6X 12	2

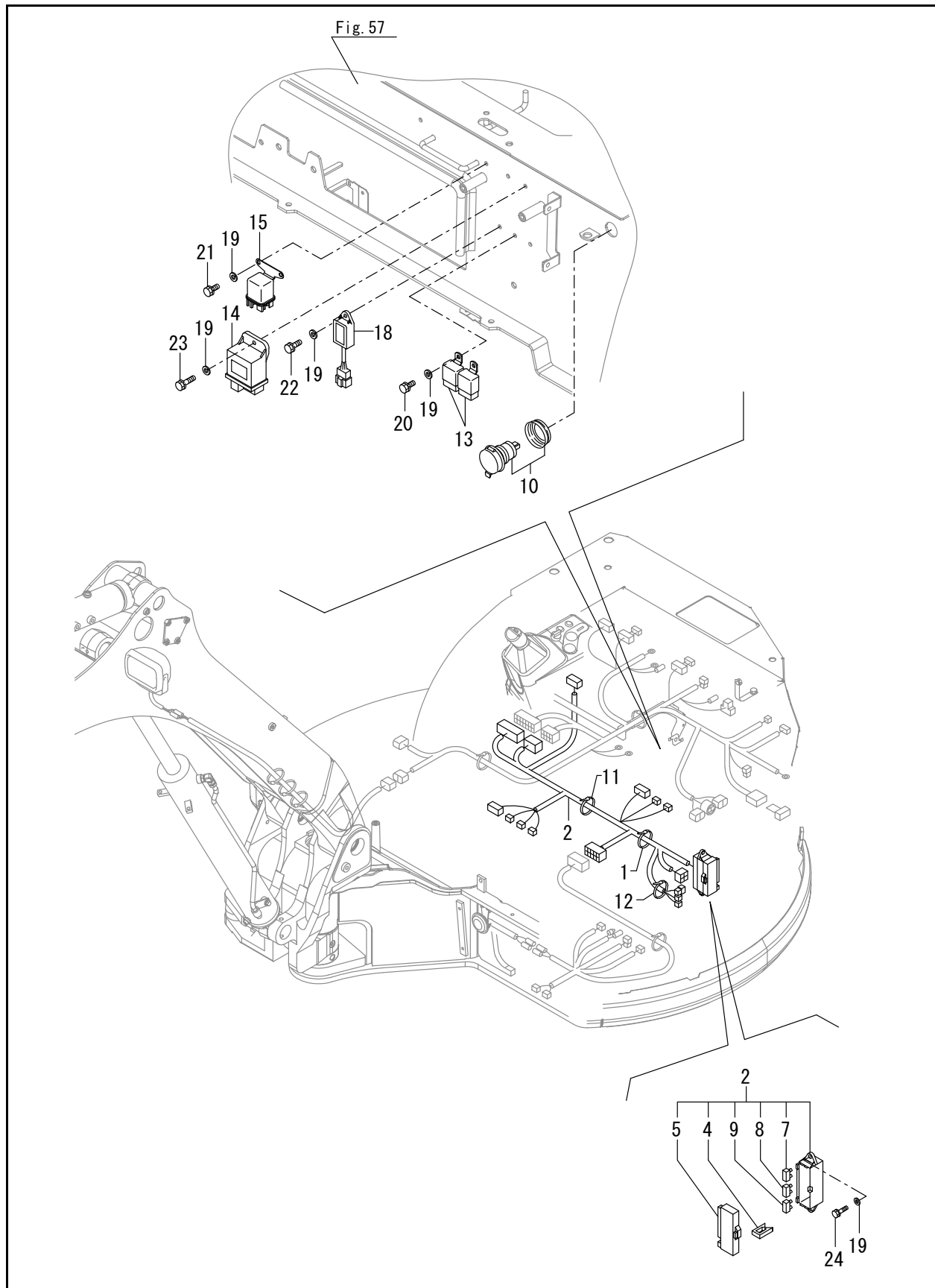
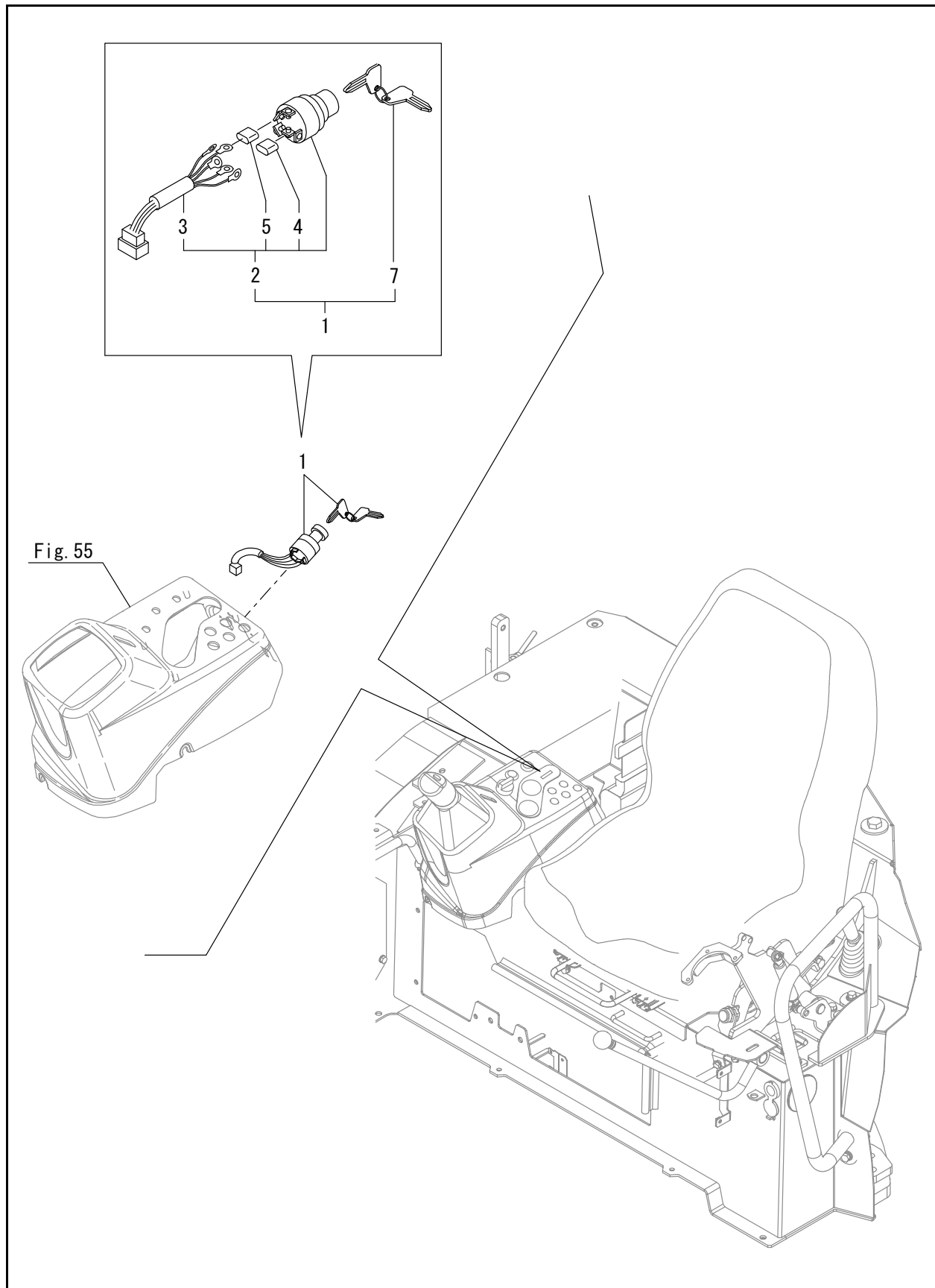


FIG. 16 - ELECTRIC PART (EQUIPMENT)

Ref. No.	Part No.	Description	Qty.
1	50280798	BAND 300	1
2	50283918	HARNESS ASSY,B EX	1
3	50286601	HANESS B EX	1
4	50280906	PULLER	1
5	50280933	COVER	1
7	50282604	FUSE, 5A	2
8	50284141	FUSE, 15A	6
9	50282606	FUSE B30	2
10	50281499	SOCKET ASSY	1
11	50284003	BAND	2
12	50282352	BAND	1
13	50282675	RELAY	2
14	186341	RELAY SAFETY	1
15	50282677	RELAY ASSY, GLOW	1
18	138089	TIMER	1
19	50282379	WASHER 6, POLISHED	6
20	50282501	BOLT M 6X 12	2
21	50282501	BOLT M 6X 12	2
22	50282502	BOLT M 6X 16	1
23	50284095	BOLT M6 X 20	1
24	50284095	BOLT M6 X 20	2

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FIG. 17 - ELECTRIC PART (STARTING SWITCH)



Ref.	No.	Part No.	Description	Qty.
	1	50280932	SWITCH, START	1
	2	50283430	CYLINDER ASSY,KEY	1
	3	50280929	CODE	1
	4	50280930	COVER M5	3
	5	50280931	COVER M4	2
	7	50282616	KEY ASSY	1

FIG. 18 - ELECTRIC PART (QUICK COUPLER : SWITCH BOX)

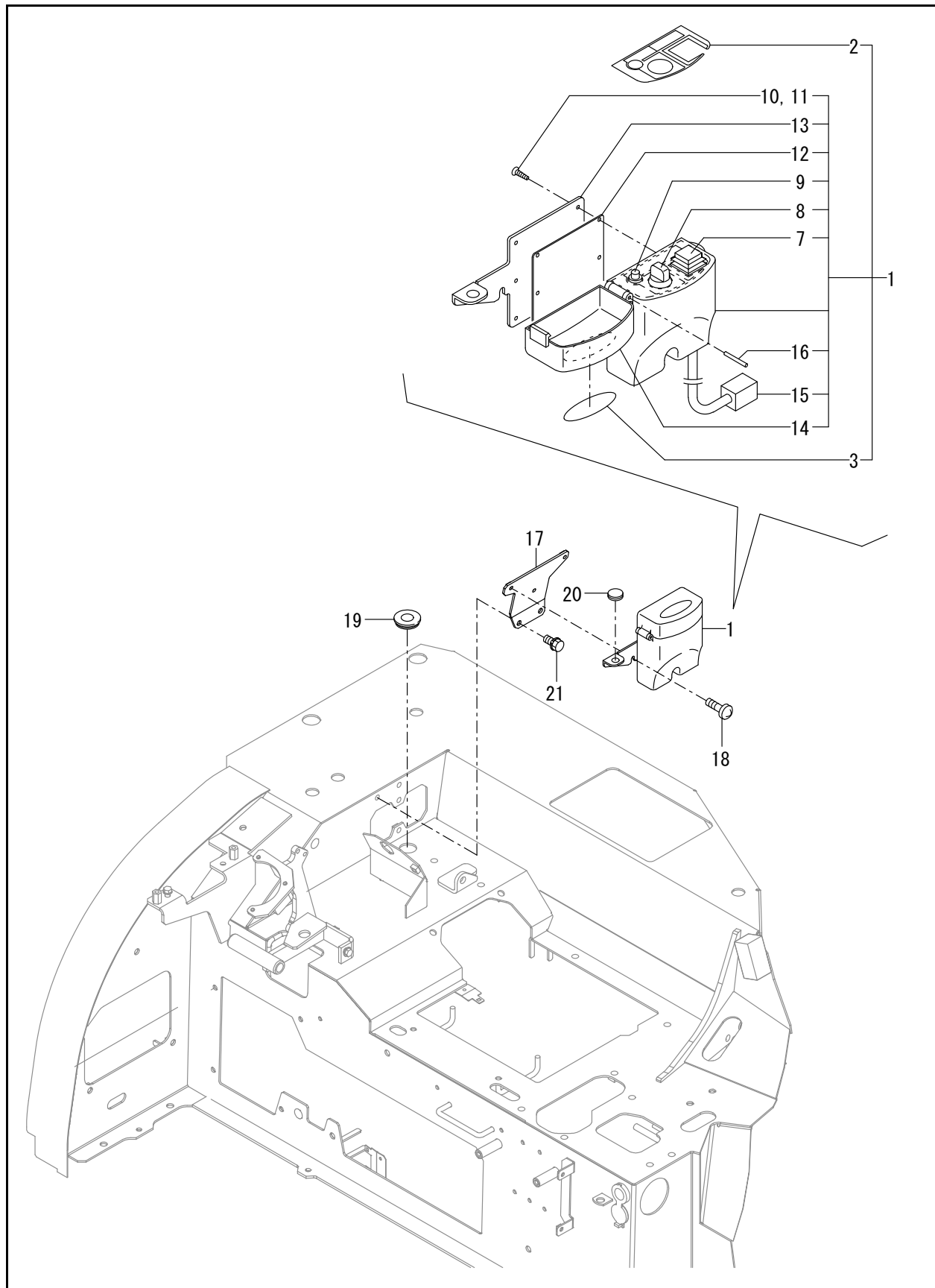


FIG. 18 - ELECTRIC PART (QUICK COUPLER : SWITCH BOX)

Ref.	No.	Part No.	Description	Qty.
	1	50281362	SWITCH BOX(EX	1
	2	50281179	LABEL,SWITCH	1
	3	50301147	LABEL,COVER	1
	7	50281364	SWITCH ASSY(GEN	1
	8	50281365	SWITCH ASSY(CONTR	1
	9	50281366	INDICATOR LAMP(CP	1
	10	50281367	TAPPING SCREWS	6
	11	50281368	TAPPING SCREWS	2
	12	50281369	PACKING	1
	13	50281370	BRACKET	1
	14	50281371	CASE, UPPER	1
	15	50281372	CODE CP 4P	1
	16	50282412	SPRING PIN 3X28	1
	17	50283437	STAY ASSY,SWITCH BOX	1
	18	50280804	SCREW	3
	19	50281373	PLUG	1
	20	50280948	PLUG	1
	21	50282506	BOLT W/WASHER M8X16	2

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FIG. 19 - ELECTRIC PART (WORK LAMP)

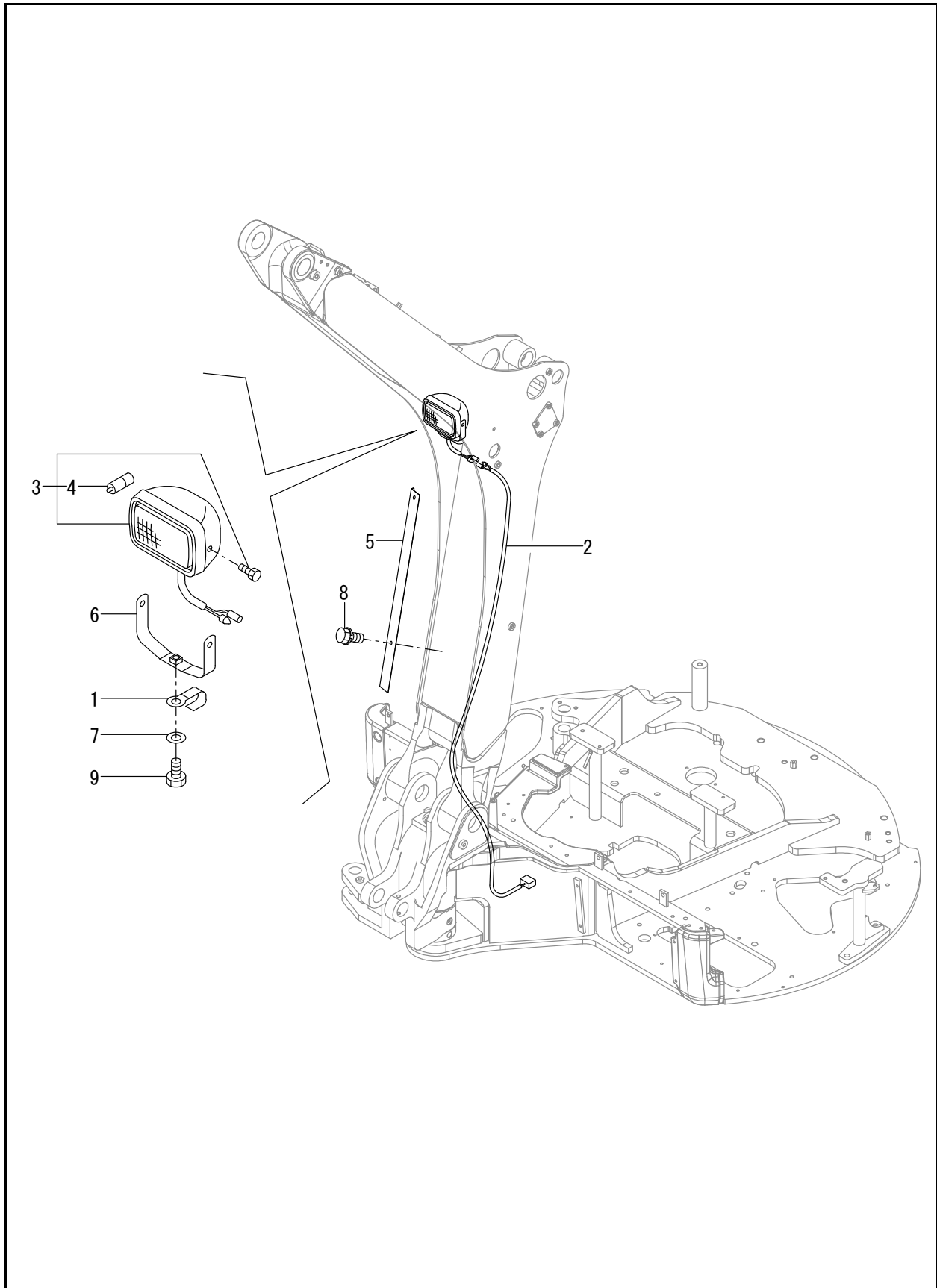


FIG. 19 - ELECTRIC PART (WORK LAMP)

Ref.	No.	Part No.	Description	Qty.
	1	50280799	CLAMP 10X70	1
	2	50283935	HARNESS BOOM LAMP	1
	3	50282962	LAMP 150X95	1
	4	50281132	BULB, 12V 55W	1
	5	50286365	HARNESS COVER	1
	6	50286285	LAMP STAY ASSY	1
	7	138111	WASHER/POLISHED	1
	8	50282514	BOLT M10X 16	2
	9	50282515	BOLT W/WASHER M10X20	1

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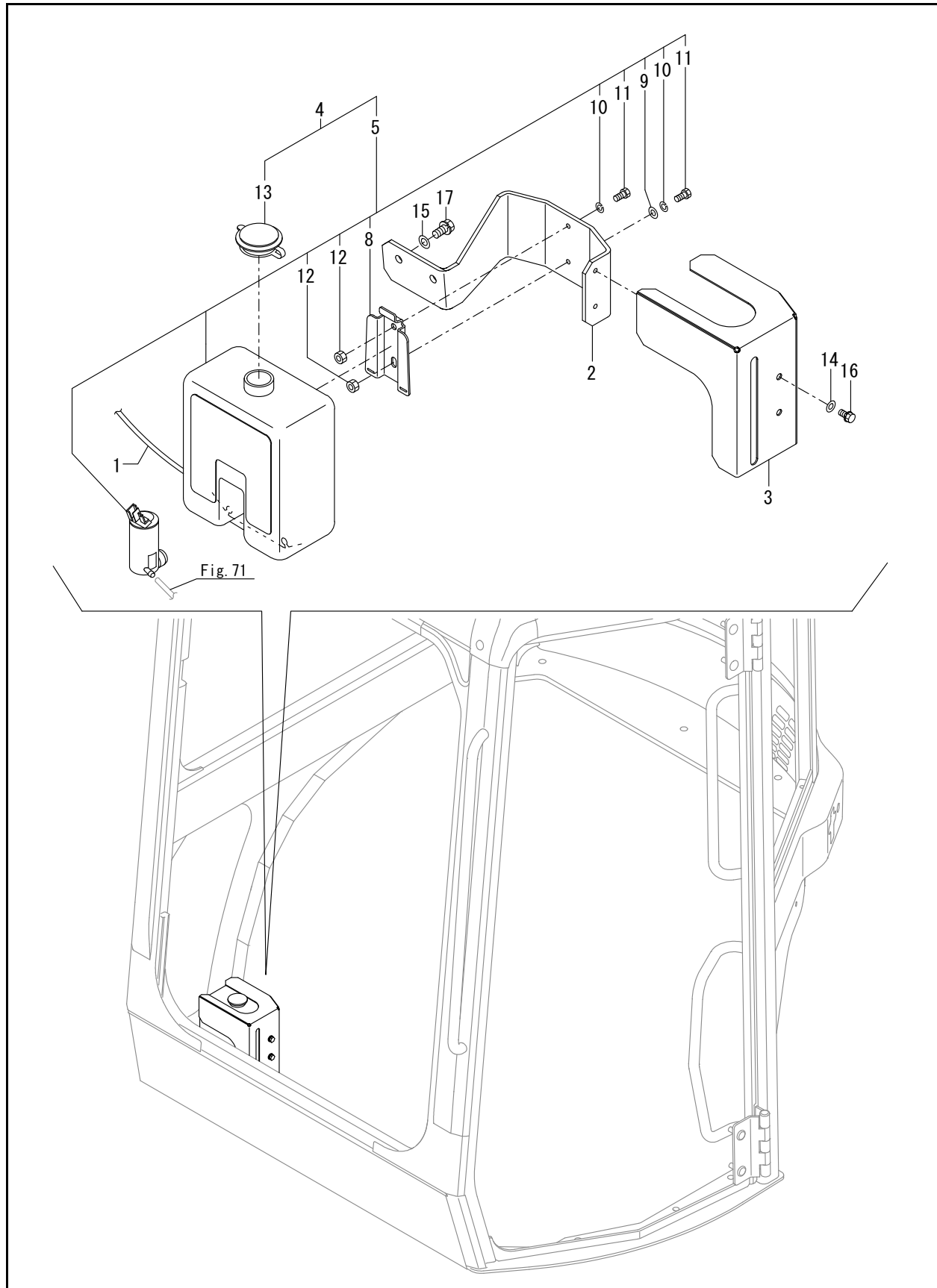
FIG. 21 - TRAVEL ALARM



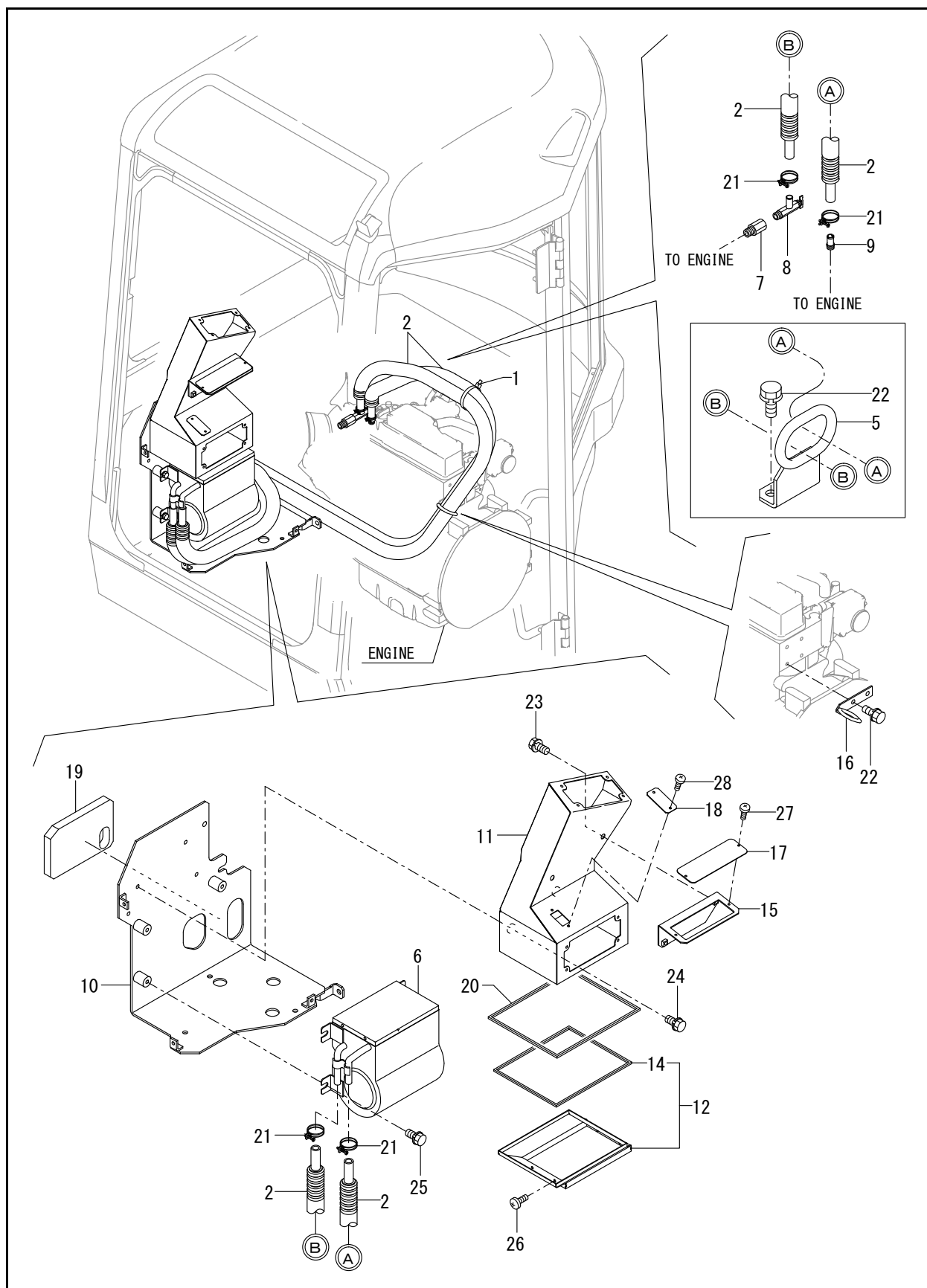
FIG. 21 - TRAVEL ALARM

Ref. No.	Part No.	Description	Qty.
1	50283427	HARNESS, TRAVEL	1
2	50283428	COVER	1
3	50283429	COVER, FLASHER	1
4	50281182	PRESSER SWITCH, ASSY	1
5	50281317	BUZZER, BACK	1
6	50281128	GROMMET 30	1
7	50282352	BAND	3
8	50280806	ELBOW PF1/4	1
9	50282470	O-RING 1B P-11.0	1
10	50286561	CONNECTOR	1
11	50282468	O-RING 1B P-8.0	1
13	50280813	CONNECTOR ASSY, 02FF	1
14	50282607	PACKING, 11.0	1
15	50282732	NIPPLE	1
16	50282842	NIPPLE	1
17	50286468	HOSE	1
18	50286462	BAND	4
19	425-34918	CLAMP 13	2
21	50282501	BOLT M 6X 12	3
22	50282505	BOLT M 8X 12	1
23	50282514	BOLT M10X 16	2
25	50284153	BAND 146	1

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FIG. 22 - WINDOW WASHER



Ref.	No.	Part No.	Description	Qty.
	1	50283230	HARNESS, WASHER	1
	2	50283475	PLATE,WT	1
	3	50283476	COVER,WASHER	1
	4	50283484	WASHER TANK,PK ASSY	1
	5	50283232	WASHER TANK ASSY	1
	8	50283234	BRACKET	1
	9	50282379	WASHER 6, POLISHED	1
	10	425-34891	SPRING WASHER 6	2
	11	425-34848	BOLT M6 X 16 PLATED	2
	12	138143	NUT	2
	13	50283485	PK CAP,WT	1
	14	50282379	WASHER 6, POLISHED	4
	15	50282380	WASHER 8, POLISHED	2
	16	50282500	BOLT M 6X 10	4
	17	50282507	BOLT W/WASHER M8X20	2



Ref.	No.	Part No.	Description	Qty.
	1	50280798	BAND 300	1
	2	50283433	HOSE ASSY, HEATER	2
	5	50283937	GUIDE ASSY,HOSE	1
	6	50282964	HEATER	1
	7	50283078	JOINT	1
	8	50281016	VALVE ASSY, HEATER	1
	9	50282711	JOINT 3/8	1
	10	50283458	BRACKET ASSY,UNIT	1
	11	50283460	DUCT ASSY	1
	12	50283470	DUCT, HEATER	1
	14	50283268	CUSHION B,BONNET	1
	15	50285137	PLATE ASSY	1
	16	50282798	GUIDE, HOSE	1
	17	50283482	COVER, CONTROLL	1
	18	50283483	COVER, DUCT	1
	19	50283496	EV,HEATER	1
	20	50283268	CUSHION B,BONNET	1
	21	50282427	HOSE CLAMP 22	4
	22	50282506	BOLT W/WASHER M8X16	2
	23	50282533	BOLT M 8X 16	2
	24	425-35026	BOLT M8 X 25	2
	25	50282538	BOLT M10X 20	3
	26	50282592	SCREW, M4X12	4
	27	50282592	SCREW, M4X12	2
	28	50282592	SCREW, M4X12	2

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FIG. 24 - AIR CONDITIONER (ELECTRIC PART)

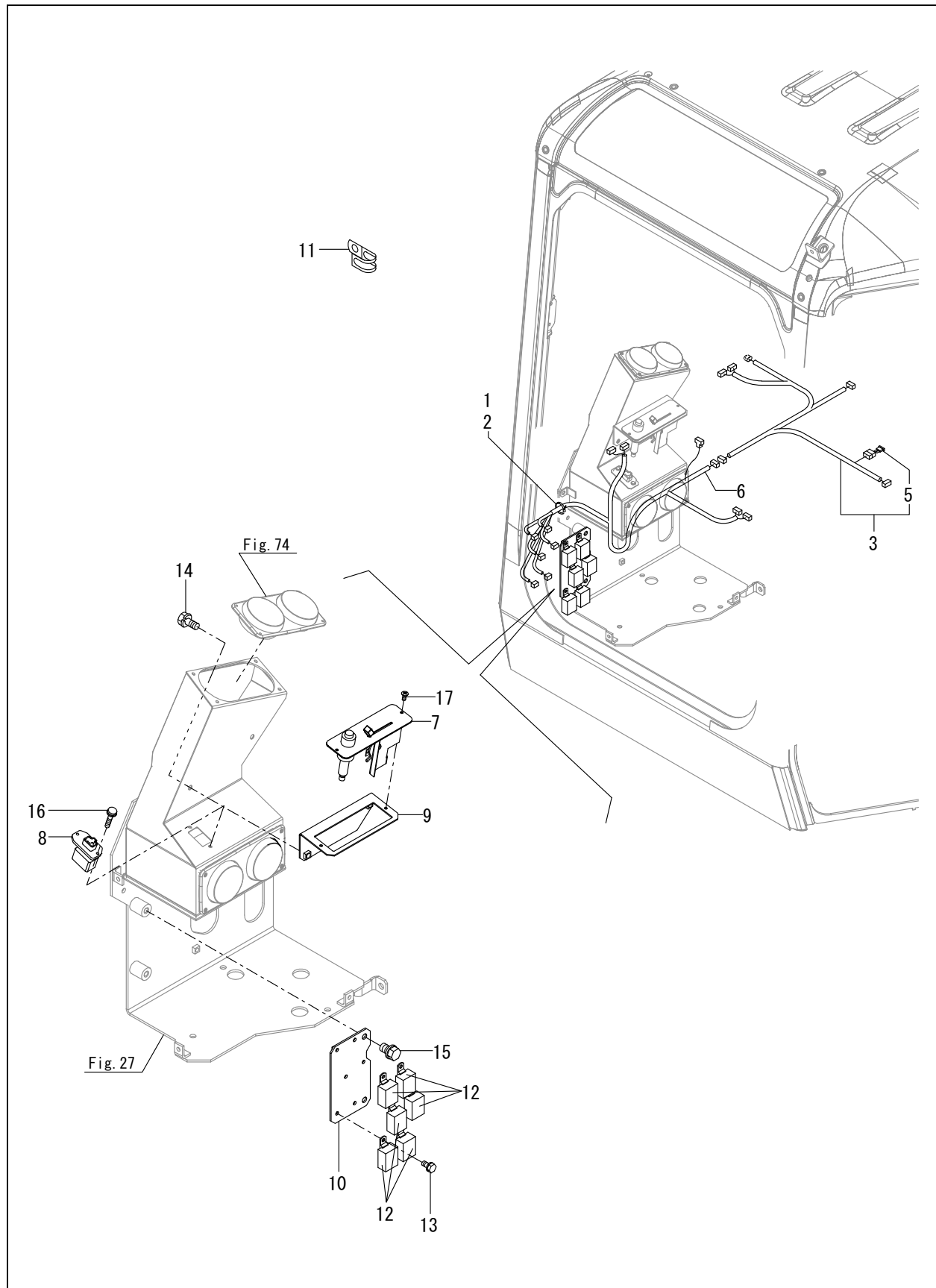


FIG. 24 - AIR CONDITIONER (ELECTRIC PART)

Ref. No.	Part No.	Description	Qty.
1	50280802	BAND	1
2	50280802	BAND	1
3	50283424	HARNESS ASSY,AIR	1
5	50281346	DIODE	1
6	50283426	HARNESS B,AIR	1
7	50284019	PANEL(AC CONTROL)	1
8	50284026	RESISTOR 100-40	1
9	50285137	PLATE ASSY	1
10	50283473	PLATE ASSY,SR	1
11	50284002	CLAMP, WIRE HARNESS	1
12	50282675	RELAY	6
13	50282501	BOLT M 6X 12	6
14	50282506	BOLT W/WASHER M8X16	2
15	50282514	BOLT M10X 16	2
16	50284105	SCREW M4 X 20	2
17	50284105	SCREW M4 X 20	2

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FIG. 25 - AIR CONDITIONER (HEATER HOSE)

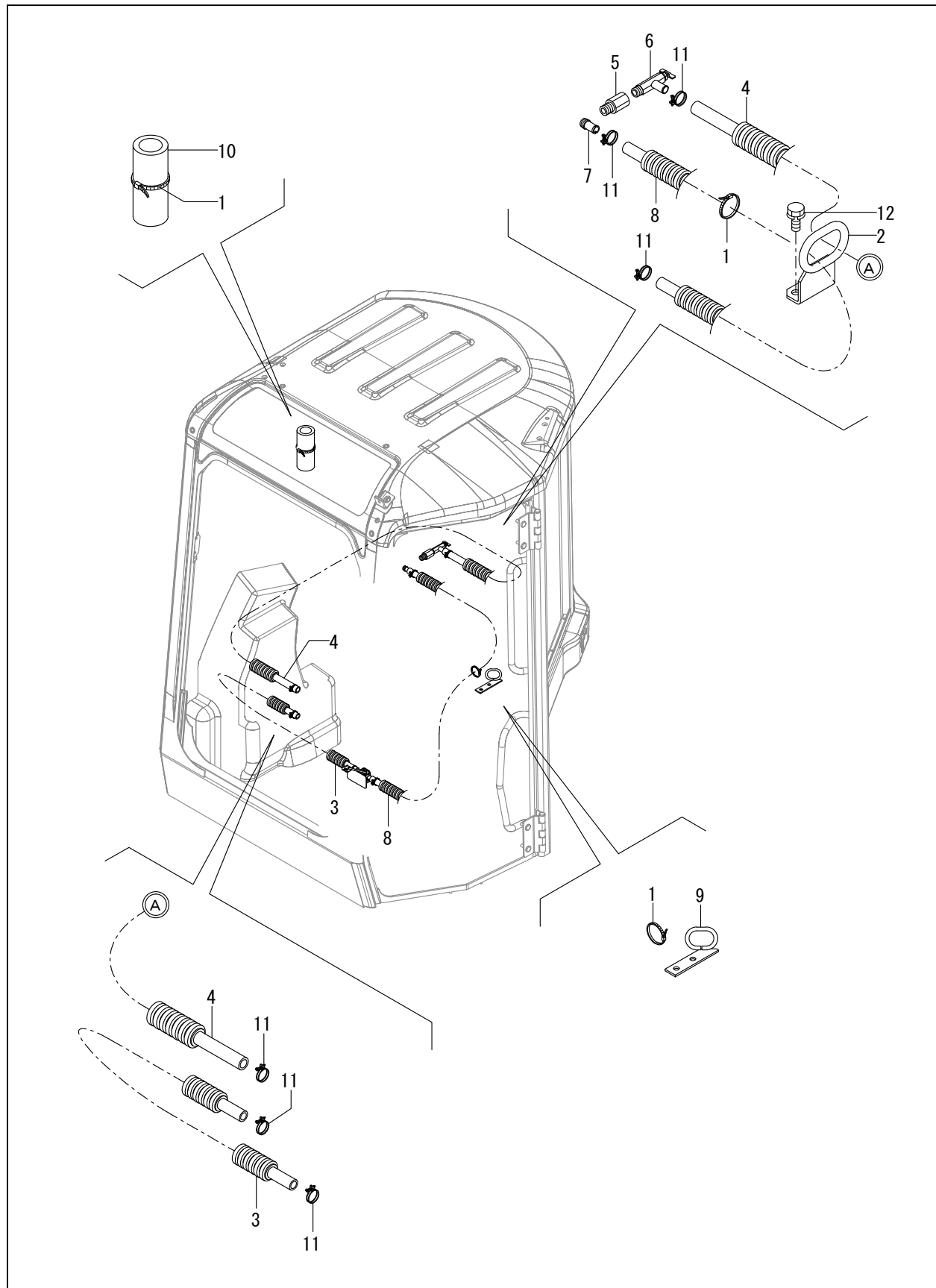


FIG. 25 - AIR CONDITIONER (HEATER HOSE)

Ref. No.	Part No.	Description	Qty.
1	50280798	BAND 300	6
2	50283937	GUIDE ASSY,HOSE	1
3	50283434	HOSE ASSY, HEATER	1
4	50283435	HOSE ASSY, HEATER	1
5	50283078	JOINT	1
6	50281016	VALVE ASSY, HEATER	1
7	50282711	JOINT 3/8	1
8	50282965	HOSE ASSY, HEATER	1
9	50282798	GUIDE, HOSE	1
10	50282972	SOUND SHIELD,HOSE	1
11	50282427	HOSE CLAMP 22	6
12	50282506	BOLT W/WASHER M8X16	2

FIG. 26 - AIR CONDITIONER (ENGINE RELATED)

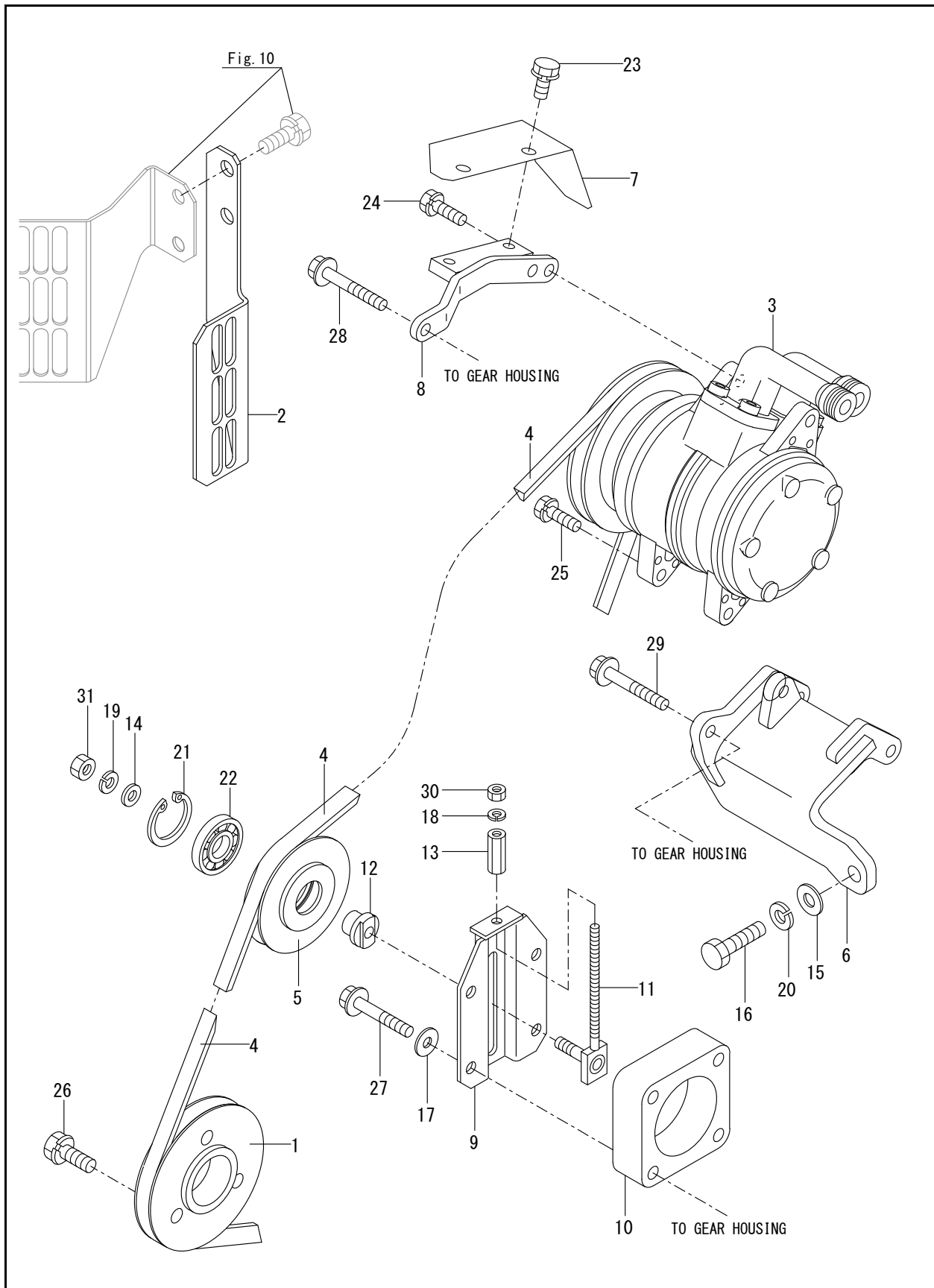
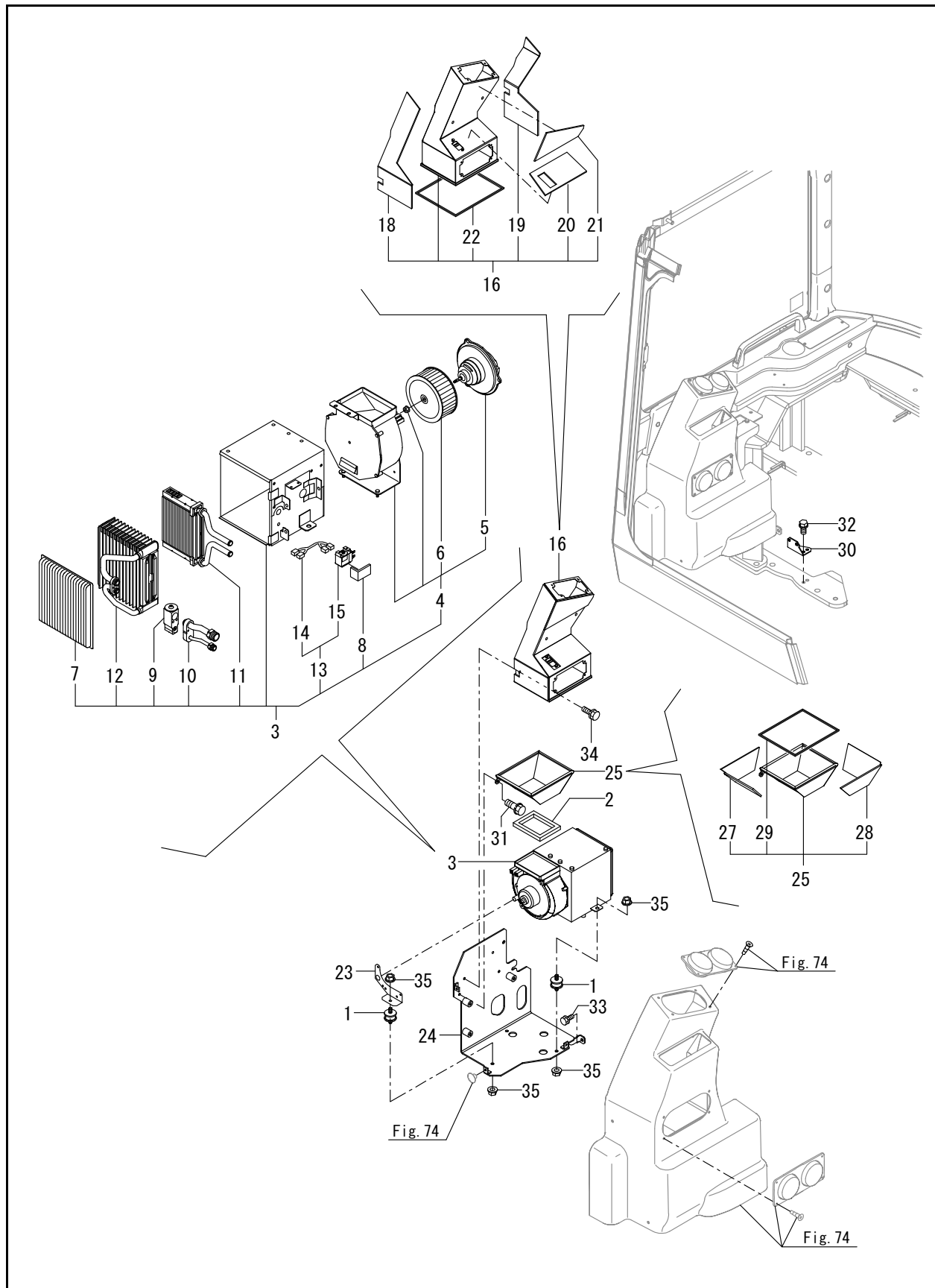


FIG. 26 - AIR CONDITIONER (ENGINE RELATED)

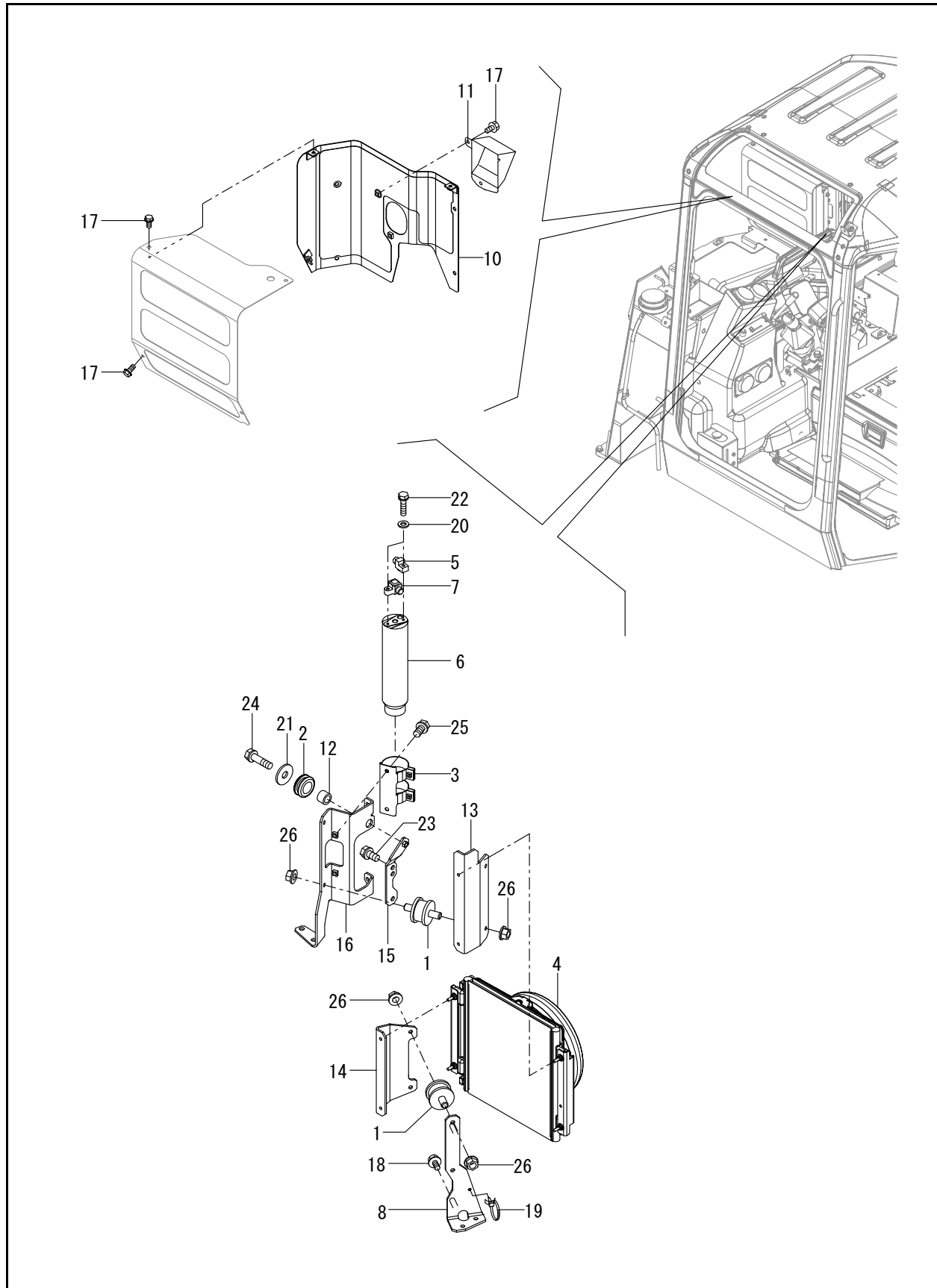
Ref. No.	Part No.	Description	Qty.
1	50283370	PULLY	1
2	50283384	GUARD	1
3	50283079	COMPRESSOR	1
4	50283080	V-BELT	1
5	50282895	PULLEY, TENSION (87	1
6	50283941	BRACKET ASSY,COMP	1
7	50283082	PLATE D	1
8	50283263	PLATE ASSY, F	1
9	50282795	BRACKET ASSY	1
10	50283260	PLATE	1
11	50282796	ADJUSTER ASSY	1
12	50282797	BOSS	1
13	50282784	NUT	1
14	50284006	SPRING WASHER	1
15	50280803	SEAT, SPRING	1
16	50282768	BOLT M10X45	1
17	425-34750	WASHER 8/SEAL	4
18	425-34891	SPRING WASHER 6	1
19	50282392	WASHER, 8	1
20	50282393	SPRING WASHER 10	1
21	50284048	CIRCLIP 40(H)	1
22	50284071	BALL BEARING	1
23	50282506	BOLT W/WASHER M8X16	2
24	50282508	BOLT M 8X 25	1
25	50282509	BOLT M 8X 30	2
26	50282515	BOLT W/WASHER M10X20	2
27	425-34766	BOLT M8 X 50 PLATED	4
28	425-34838	BOLT M8 X 60 PLATED	1
29	425-34930	BOLT M8 X 65 PLATED	1
30	138143	NUT	1
31	50282596	NUT M 8	1

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FIG. 27 - AIR CONDITIONER (CABIN RELATED)



Ref.	No.	Part No.	Description	Qty.
	1	50281059	MOUNT	3
	2	50281227	SEAL A, DUCT	1
	3	50283938	AIR CON, UNIT ASSY	1
	4	50283939	BLOWER ASSY	1
	5	50284032	MOTOR	1
	6	50284038	FAN, BLOWER	1
	7	50284030	FILTER	1
	8	50284031	GASKET	1
	9	50284033	VALVE EXPANSION	1
	10	50284034	TUBE ASSY	1
	11	50284035	HEATER CORE	1
	12	50284036	EVAPORATOR	1
	13	50284009	THERMOSTAT KIT	1
	14	50284015	CABLE, THERMOSTAT	1
	15	50284011	THERMOSTAT ASSY	1
	16	50283451	DUCT ASSY(73)	1
	18	50283488	SEAL C	1
	19	50283489	SEAL D	1
	20	50283490	SEAL E	1
	21	50283491	SEAL F	1
	22	50283268	CUSHION B, BONNET	1
	23	50283456	BRACKET, UNIT	1
	24	50283458	BRACKET ASSY, UNIT	1
	25	50283469	DUCT U ASSY	1
	27	50283486	SEAL A	1
	28	50283487	SEAL B	1
	29	50283268	CUSHION B, BONNET	1
	30	50283472	BRACKET, WV	1
	31	50282507	BOLT W/WASHER M8X20	2
	32	50282515	BOLT W/WASHER M10X20	2
	33	50282515	BOLT W/WASHER M10X20	3
	34	425-35026	BOLT M8 X 25	2
	35	50282548	NUT M 8	6

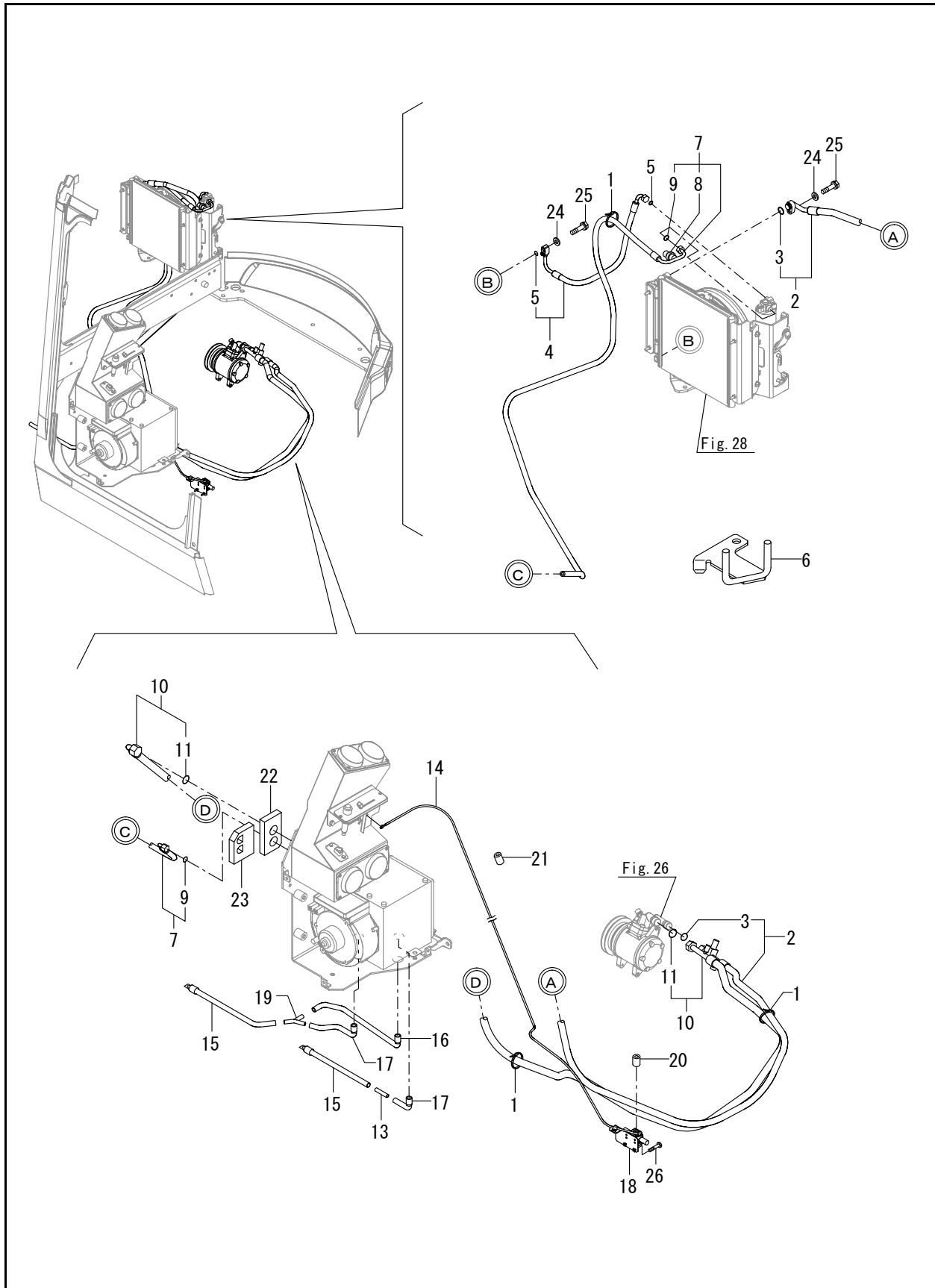
Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 28 - AIR CONDITIONER (CONDENSER RELATED)



<https://truckmanualshub.com/> **Z45 - COMPACT EXCAVATOR**
FIG. 28 - AIR CONDITIONER (CONDENSER RELATED)

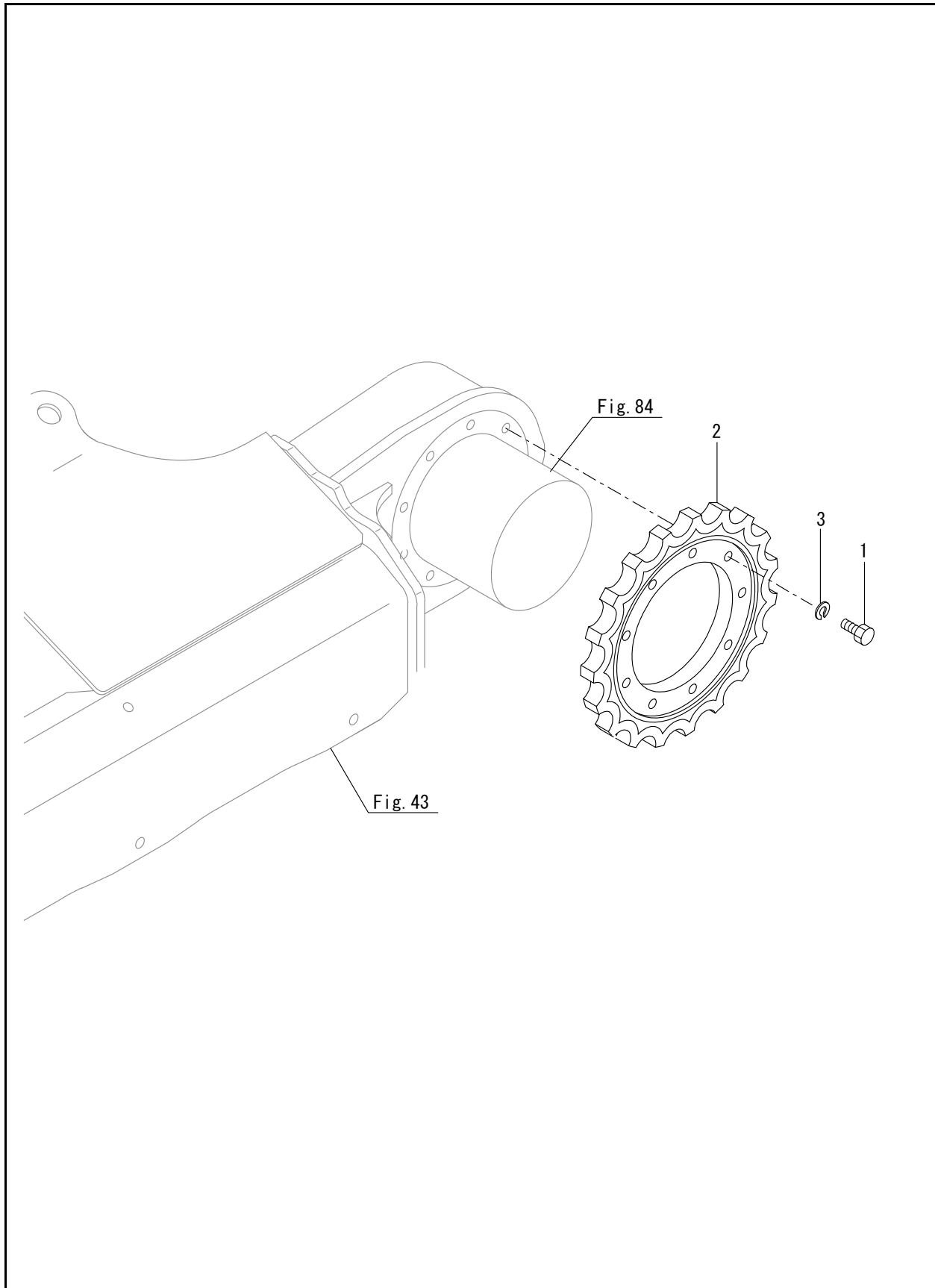
Ref.	No.	Part No.	Description	Qty.
	1	50281059	MOUNT	4
	2	50283271	GROMMET 15X20	1
	3	50280857	BRACKET	1
	4	50283438	CONDENSER ASSY	1
	5	50283081	CONNECTOR	1
	6	50282371	RECEIVER DRYER	1
	7	50282372	JOINT (RECEIVER)	1
	8	50283462	BRACKET R ASSY,CON	1
	10	50283943	COVER B ASSY, COND	1
	11	50283944	COVER,CON	1
	12	50283465	COLLAR 9.2X13.8X10	1
	13	50283466	BRACKET,REC	1
	14	50283468	BRACKET,COND	1
	15	50283477	STAY ASSY,COND	1
	16	50283479	BRACKET L ASSY,COND	1
	17	50281318	BOLT 8X 16	8
	18	50281318	BOLT 8X 16	2
	19	50284027	LAMP, BAND B	1
	20	50282379	WASHER 6, POLISHED	2
	21	186593	WASHER 8	1
	22	50284096	BOLT M6 X 25	2
	23	50282506	BOLT W/WASHER M8X16	2
	24	50282509	BOLT M 8X 30	1
	25	50282533	BOLT M 8X 16	2
	26	50282548	NUT M 8	8

Z45 - COMPACT EXCAVATOR <http://truckmanualshub.com/>
FIG. 29 - AIR CONDITIONER (PIPING)



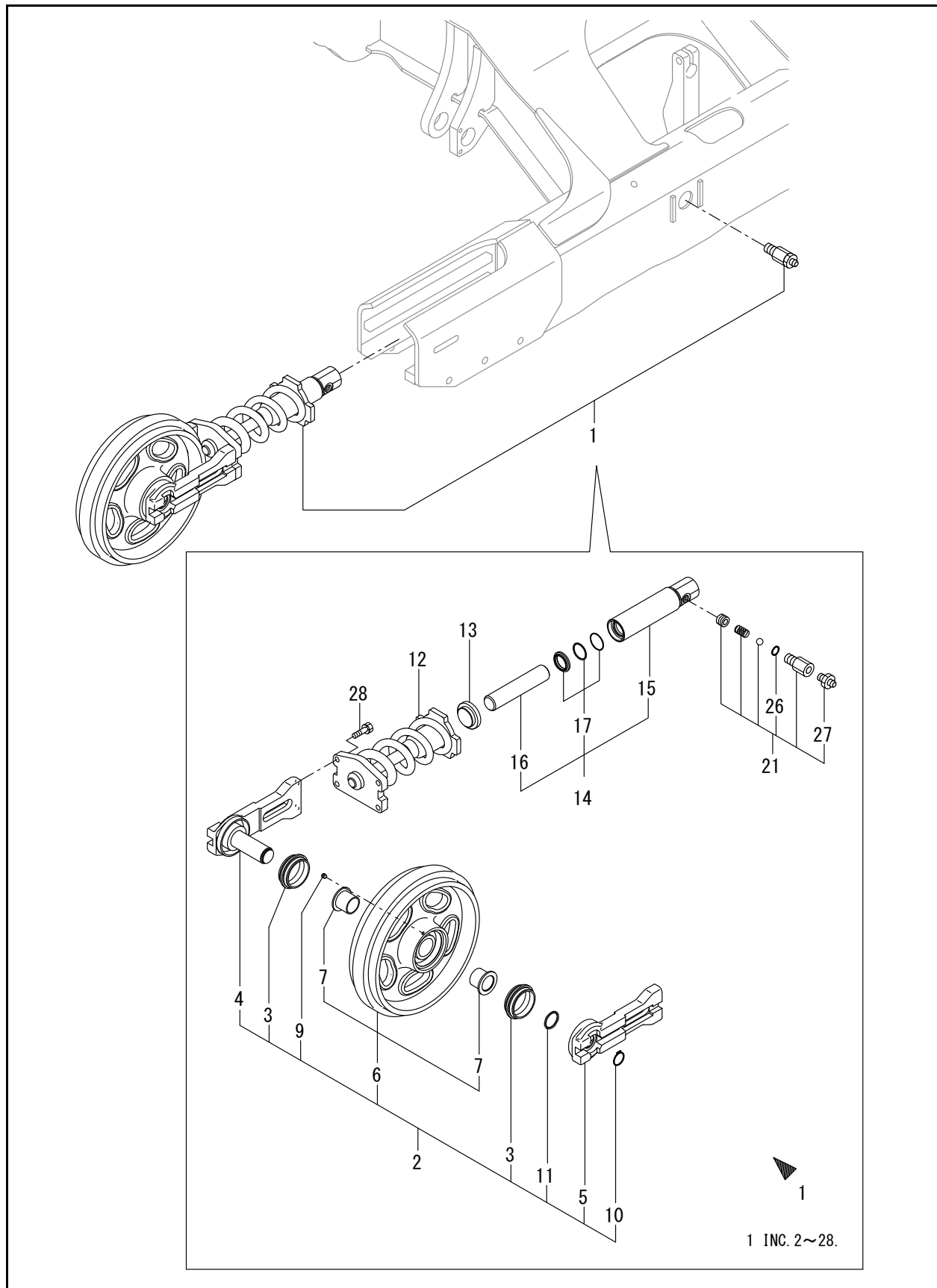
Ref. No.	Part No.	Description	Qty.
1	50280798	BAND 300	1
2	50283445	HOSE	1
3	50284013	O-RING	2
4	50283446	HOSE	1
5	50284012	O-RING	2
6	50283940	GUIDE ASSY,AC HOSE	1
7	50283447	HOSE	1
8	50283449	SWITCH,PRESSURE	1
9	50284012	O-RING	2
10	50283448	HOSE	1
11	50284014	O-RING	2
13	50283439	CONNECTOR	1
14	50283440	WIRE	1
15	50283441	DRAIN HOSE 830	2
16	50283442	DRAIN HOSE 590	1
17	50283443	DRAIN HOSE 420	2
18	50284025	VALVE,WATER	1
19	50284022	JOINT Y,DRAIN	1
20	50283455	BUSHING	1
21	50283455	BUSHING	1
22	50283493	EV,AIR CON B	1
23	50283495	EV,AIR CON B	1
24	50282379	WASHER 6, POLISHED	2
25	50284096	BOLT M6 X 25	2
26	50284105	SCREW M4 X 20	2

FIG. 30 - SPROCKET



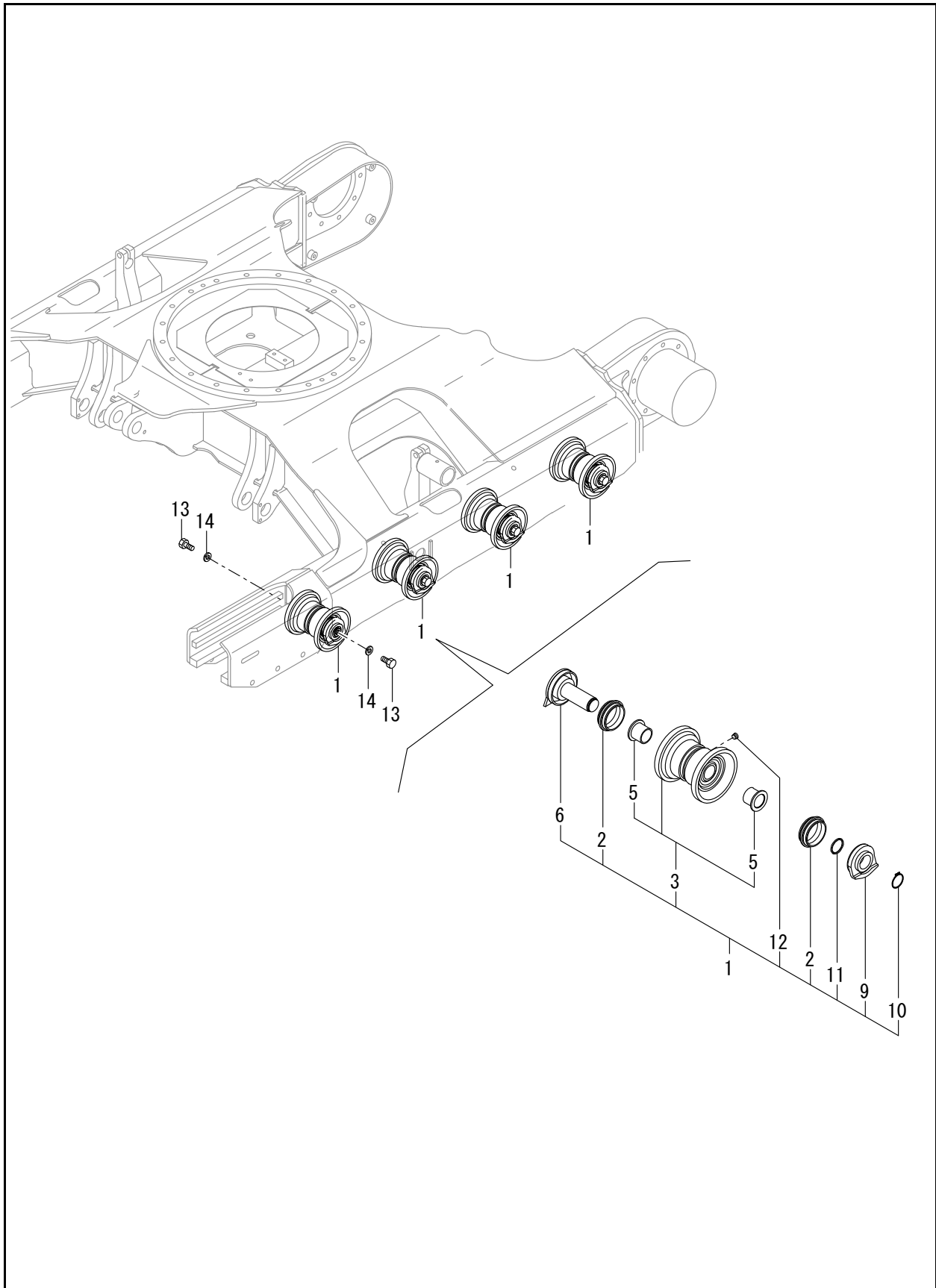
Ref.	No.	Part No.	Description	Qty.
	1	50281066	BOLT 14X35	18
	2	50282696	SPROCKET 19	2
	3	188712	SPRING/WASHER 14	18

FIG. 31 - IDLER & ADJUST



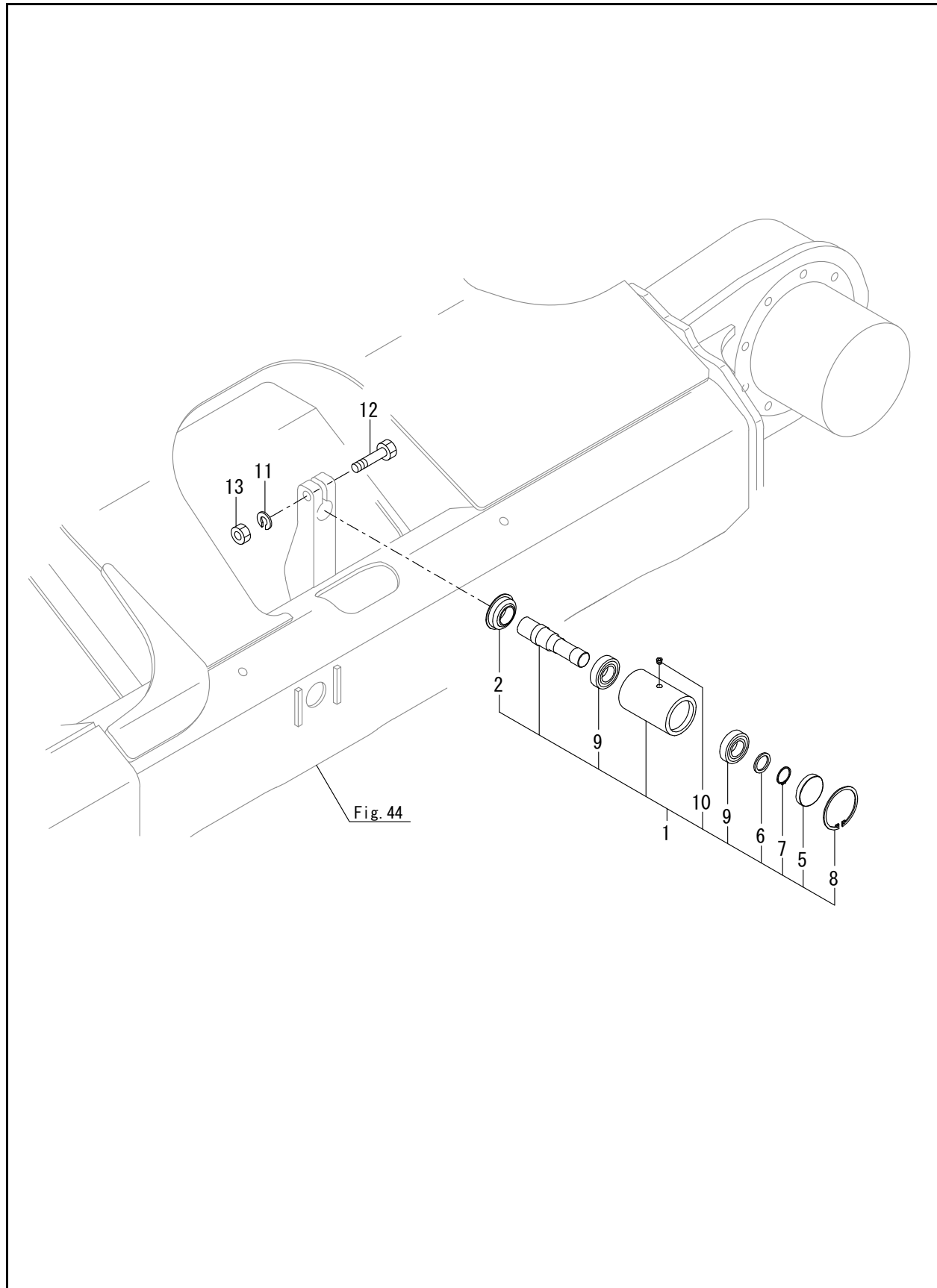
Ref.	No.	Part No.	Description	Qty.
	1	50284143	IDLER ASSY, IRON	2
	2	50283085	IDLER,FRONT ASSY	2
	3	50283086	SEAL	4
	4	50283088	SHAFT ASSY, IDLER	2
	5	50283090	SEAL COVER B, IDLER	2
	6	50283092	IDLER ASSY,340	2
	7	50282712	BUSHING 40	4
	9	50282355	PLUG PT1/8	2
	10	50282400	CIRCLIP 35	2
	11	50284081	O-RING 1A G-40.0	2
	12	50283095	SPRING	2
	13	50282697	HOLDER, ADJUSTER	2
	14	50282698	CYLINDER ASSY,ADJUST	2
	15	50282699	TUBE ASSY, ADJUST	2
	16	50282700	PISTON	2
	17	50282701	ADJUST SEAL SET	2
	21	50280783	VALVE ASSY, NIPPLE	2
	26	50282471	O-RING 1B P-14.0	2
	27	50282497	NIPPLE PT1/8,GREASE	2
	28	50282526	BOLT M12X 40	8

FIG. 32 - TRACK ROLLER



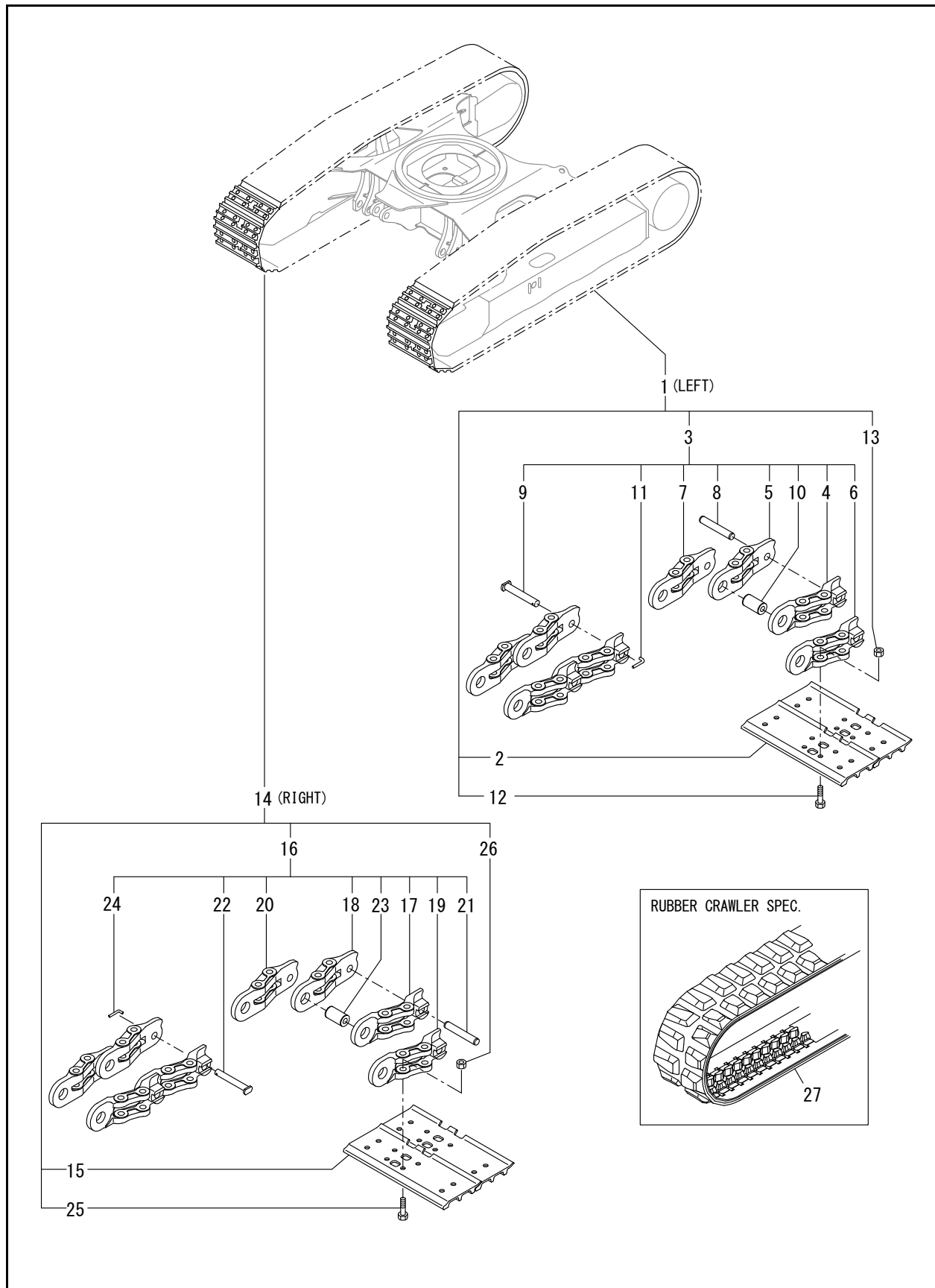
Ref.	No.	Part No.	Description	Qty.
	1	50283094	TRACK ROLLER ASSY	8
	2	50282966	FLOATING SEAL	16
	3	50282852	ROLLER ASSY	8
	5	50282857	BUSHING	16
	6	50282854	SHAFT ASSY,ROLLER	8
	9	50282856	COVER, SEAL	8
	10	50284045	CIRCLIP 30	8
	11	50282480	O-RING 1B P-29.0	8
	12	50282621	PLUG PT1/8	8
	13	50283253	BOLT, M16X35	16
	14	50282396	SPRING WASHER 16	16

FIG. 33 - CARRIER ROLLER



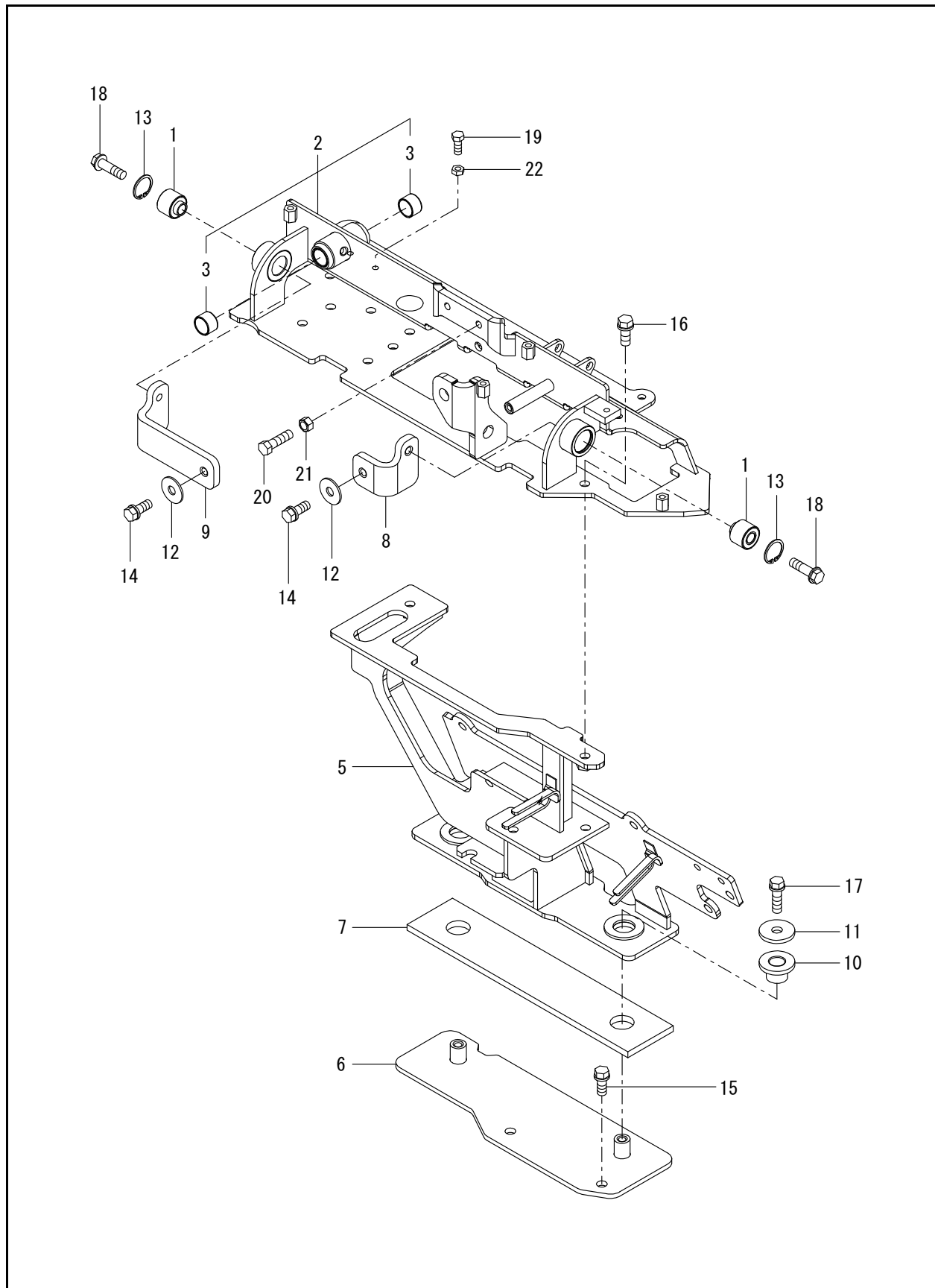
Ref. No.	Part No.	Description	Qty.
1	50283239	ROLLER ASSY, CARRIER	2
2	50282785	SEAL, OIL	2
5	50283241	CAP, CARRIER ROLLER	2
6	50283242	WASHER, CARRIER	2
7	50284045	CIRCLIP 30	2
8	50284049	RING, 62	2
9	50284073	BALL BEARING	4
10	50282621	PLUG PT1/8	2
11	50282396	SPRING WASHER 16	2
12	50282573	BOLT M16X 85 PLATED	2
13	50282599	NUT M16	2

FIG. 34 - CRAWLER



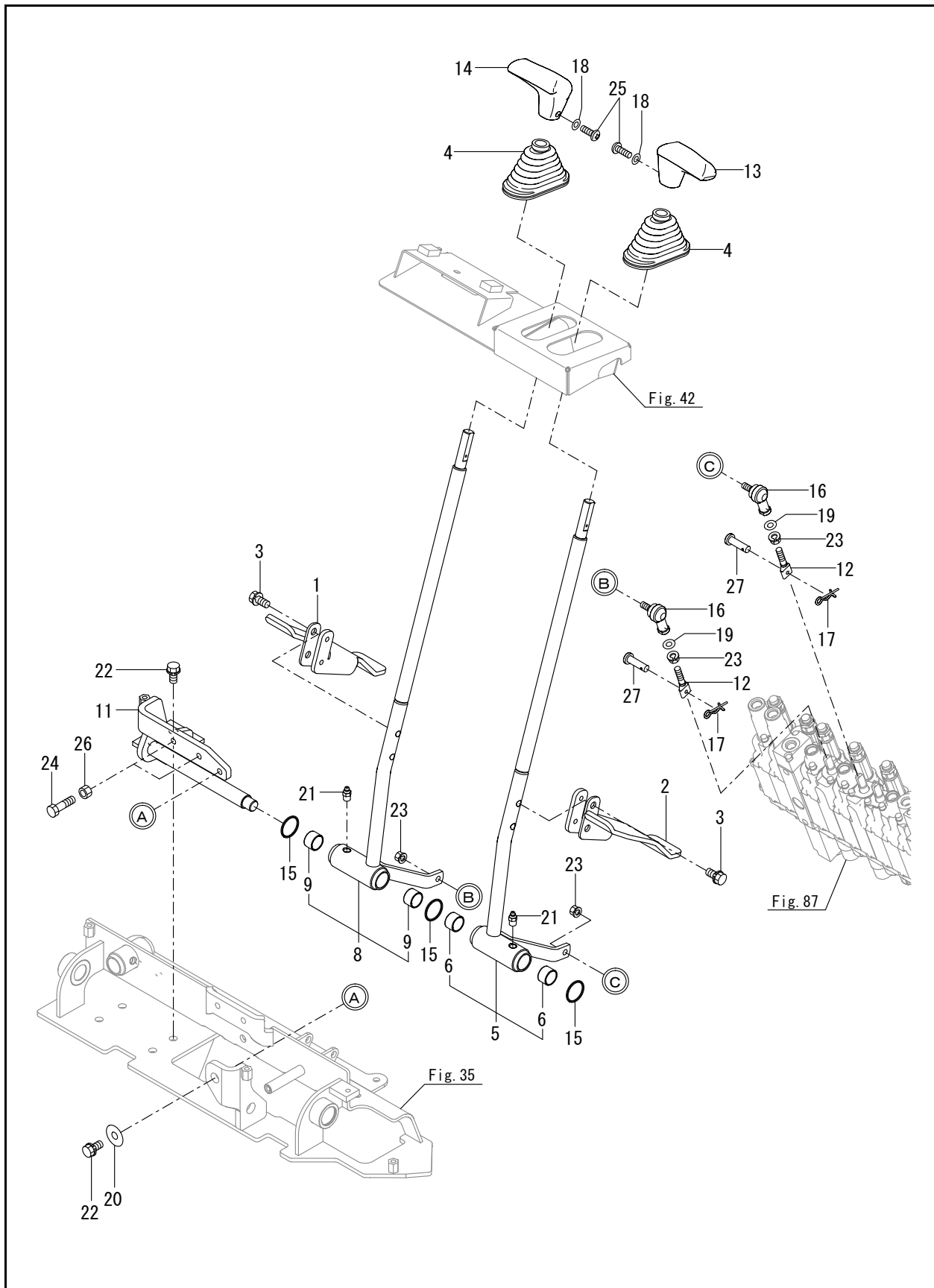
Ref.	No.	Part No.	Description	Qty.
	1	50283096	SHOE ASSY, TRACK	1
	2	50283097	PLATE, SHOE 350L	40
	3	50283100	LINK ASSY	1
	4	50283101	LINK(L), TRACK	39
	5	50283102	LINK(R), TRACK	39
	6	50283103	LINK(L), MASTER	1
	7	50283104	LINK(R), MASTER	1
	8	50283105	PIN, TRACK	39
	9	50283106	PIN, MASTER	1
	10	50283107	BUSHING	40
	11	50283108	PIN, LOCK 6X40	1
	12	50283109	BOLT, SHOE	160
	13	50283110	NUT, SHOE	160
	14	50283098	SHOE ASSY, TRACK	1
	15	50283099	PLATE, SHOE 350R	40
	16	50283100	LINK ASSY	1
	17	50283101	LINK(L), TRACK	39
	18	50283102	LINK(R), TRACK	39
	19	50283103	LINK(L), MASTER	1
	20	50283104	LINK(R), MASTER	1
	21	50283105	PIN, TRACK	39
	22	50283106	PIN, MASTER	1
	23	50283107	BUSHING	40
	24	50283108	PIN, LOCK 6X40	1
	25	50283109	BOLT, SHOE	160
	26	50283110	NUT, SHOE	160
	27	50282858	CRAWLER, RUBBER	2

FIG. 35 - VALVE PLATE



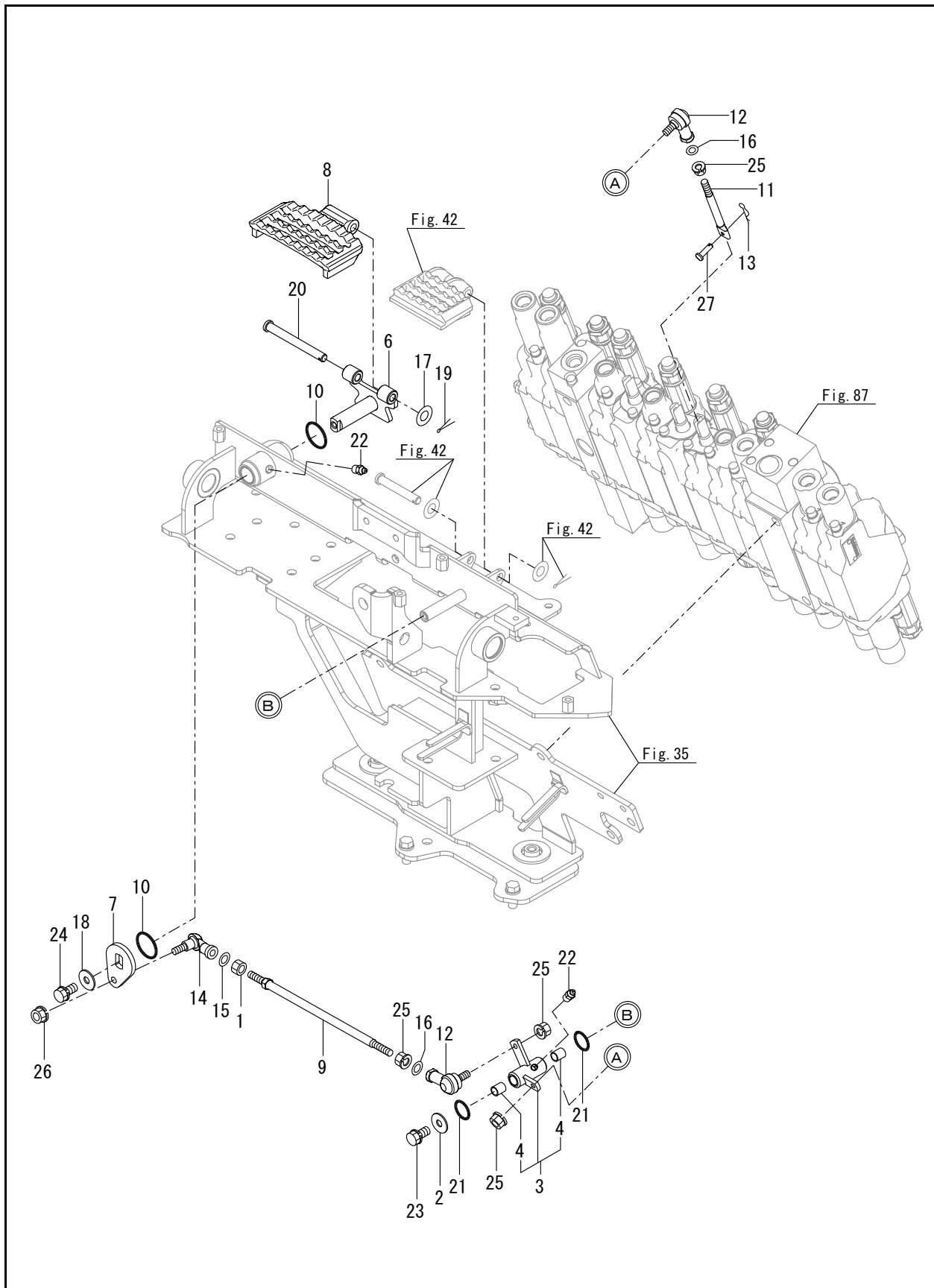
Ref.	No.	Part No.	Description	Qty.
	1	50282799	CUSHION	2
	2	50286555	BRACKET	1
	3	50280810	BUSHING 2015	2
	5	50286556	BRACKET	1
	6	50283514	BRACKET ASSY, DAMPER	1
	7	50283515	PAD,ABSOBER	1
	8	50283516	STAY, DAMPER	1
	9	50283517	STAY, DAMPER	1
	10	50283248	GROMMET 18X24X40	2
	11	50283249	WASHER 12X40X4.5	2
	12	50282387	WASHER 10	2
	13	50284047	CIRCLIP 28	2
	14	50282516	BOLT W/WASHER M10X25	2
	15	50282516	BOLT W/WASHER M10X25	2
	16	50282516	BOLT W/WASHER M10X25	2
	17	50282518	BOLT M10X 35	2
	18	138135	BOLT M10 X 35 PLATED	2
	19	50284115	BOLT M8 X 20 PLATED	2
	20	50284118	BOLT M10 X 30 PLATED	2
	21	50282597	NUT 10	2
	22	425-34794	NUT, LOCK M8 PLATED	2

FIG. 36 - CONTROL EQUIPMENT (TRAVEL LEVER)



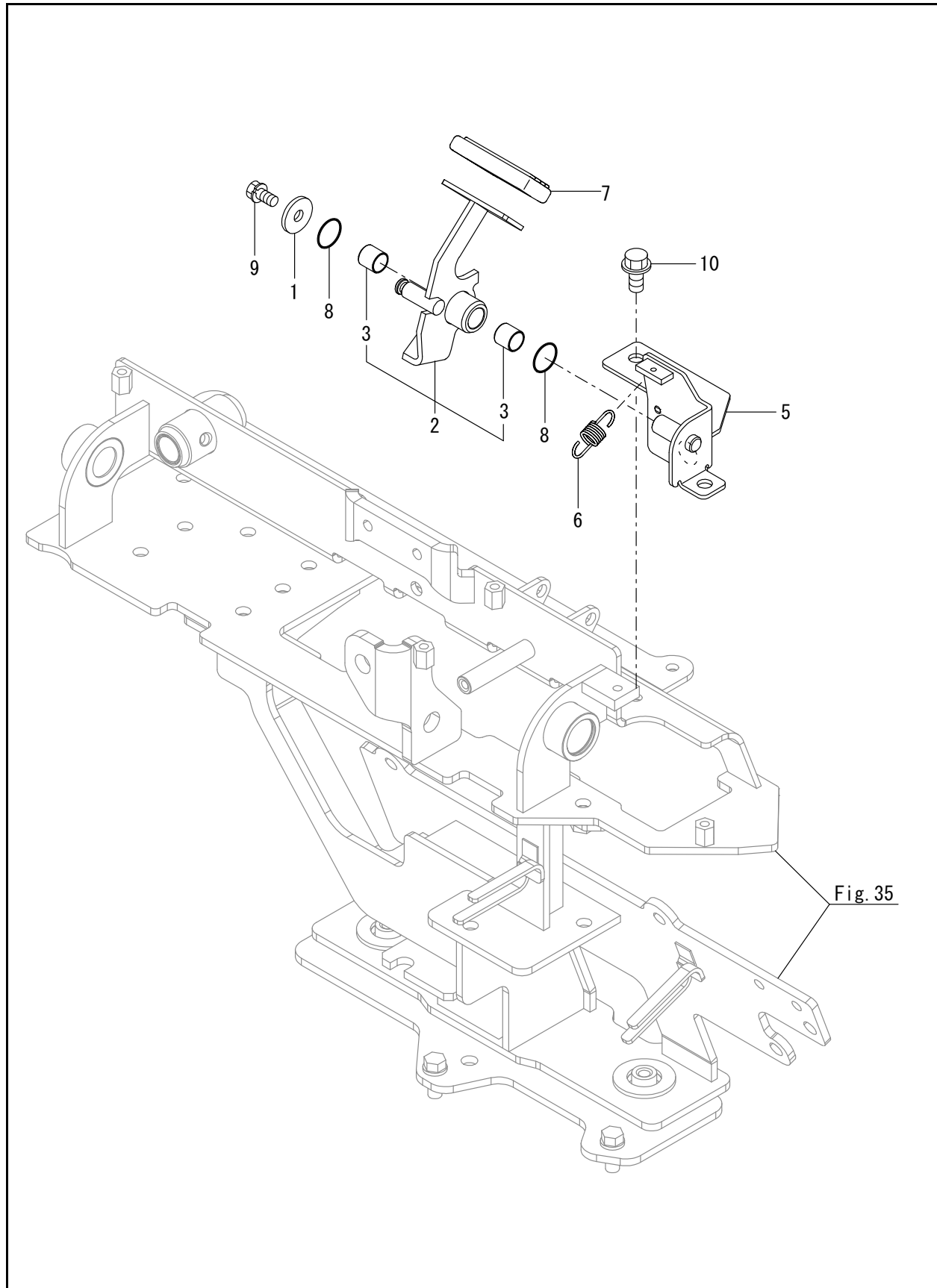
Ref.	No.	Part No.	Description	Qty.
	1	50283497	PEDAL, TRACK	1
	2	50283498	PEDAL, TRACK	1
	3	425-34760	BOLT M8 X 30 PLATED	4
	4	50282725	BOOTS	2
	5	50283499	LEVER, TRACK	1
	6	50280810	BUSHING 2015	2
	8	50283500	LEVER, TRACK	1
	9	50280810	BUSHING 2015	2
	11	50283507	BRACKET ASSY,TRUCK	1
	12	50282736	ROD(C), SPOOL	2
	13	50280939	GRIP L, DRIVE	1
	14	50280940	GRIP R, DRIVE	1
	15	50280793	O-RING 27X5.7	3
	16	50282702	ELBOW	2
	17	50284017	PIN 6,COME-OFF SNAP	2
	18	197782	WASHER 4	2
	19	138515	WASHER 8	2
	20	50282387	WASHER 10	1
	21	50282497	NIPPLE PT1/8,GREASE	2
	22	50282516	BOLT W/WASHER M10X25	3
	23	50282548	NUT M 8	4
	24	50284120	BOLT M10 X 35 PLATED	2
	25	50282592	SCREW, M4X12	2
	26	50282597	NUT 10	2
	27	50284148	PIN 4.75X14	2

FIG. 37 - CONTROL EQUIPMENT (SWING PEDAL)



Ref.	No.	Part No.	Description	Qty.
	1	50284001	LS-NUT 8	1
	2	50284006	SPRING WASHER	1
	3	50283501	LINK ASSY, SWING	1
	4	50282726	BUSHING 1415	2
	6	50283502	PIN ASSY,SWING	1
	7	50283503	PLATE, SWING	1
	8	50283505	PEDAL	1
	9	50282734	ROD	1
	10	50280793	O-RING 27X5.7	2
	11	50282771	ROD 98.5	1
	12	50282702	ELBOW	2
	13	50284017	PIN 6,COME-OFF SNAP	1
	14	50284021	BALL BL8DL, LINK	1
	15	138515	WASHER 8	1
	16	138515	WASHER 8	2
	17	138111	WASHER/POLISHED	1
	18	186593	WASHER 8	1
	19	50282418	COTTER PIN 2.0X20	1
	20	50284059	PIN, H10X90	1
	21	50284076	O-RING 1A P-21.0	2
	22	50282497	NIPPLE PT1/8,GREASE	2
	23	50282506	BOLT W/WASHER M8X16	1
	24	50282506	BOLT W/WASHER M8X16	1
	25	50282548	NUT M 8	4
	26	50282548	NUT M 8	1
	27	50284148	PIN 4.75X14	1

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FIG. 38 - CONTROL EQUIPMENT (LOW-HIGH PEDAL)



Ref.	No.	Part No.	Description	Qty.
	1	50284006	SPRING WASHER	1
	2	50283509	PEDAL ASSY,2SPEED	1
	3	50282726	BUSHING 1415	2
	5	50283511	BRACKET ASSY,2SPEED	1
	6	50283512	SPRING,2SPEED	1
	7	50282967	PAD,PEDAL	1
	8	50284076	O-RING 1A P-21.0	2
	9	50282506	BOLT W/WASHER M8X16	1
	10	425-34733	BOLT M8 X 16 PLATED	2

FIG. 39 - CONTROL EQUIPMENT (LOCK LEVER & STAND : LEFT)

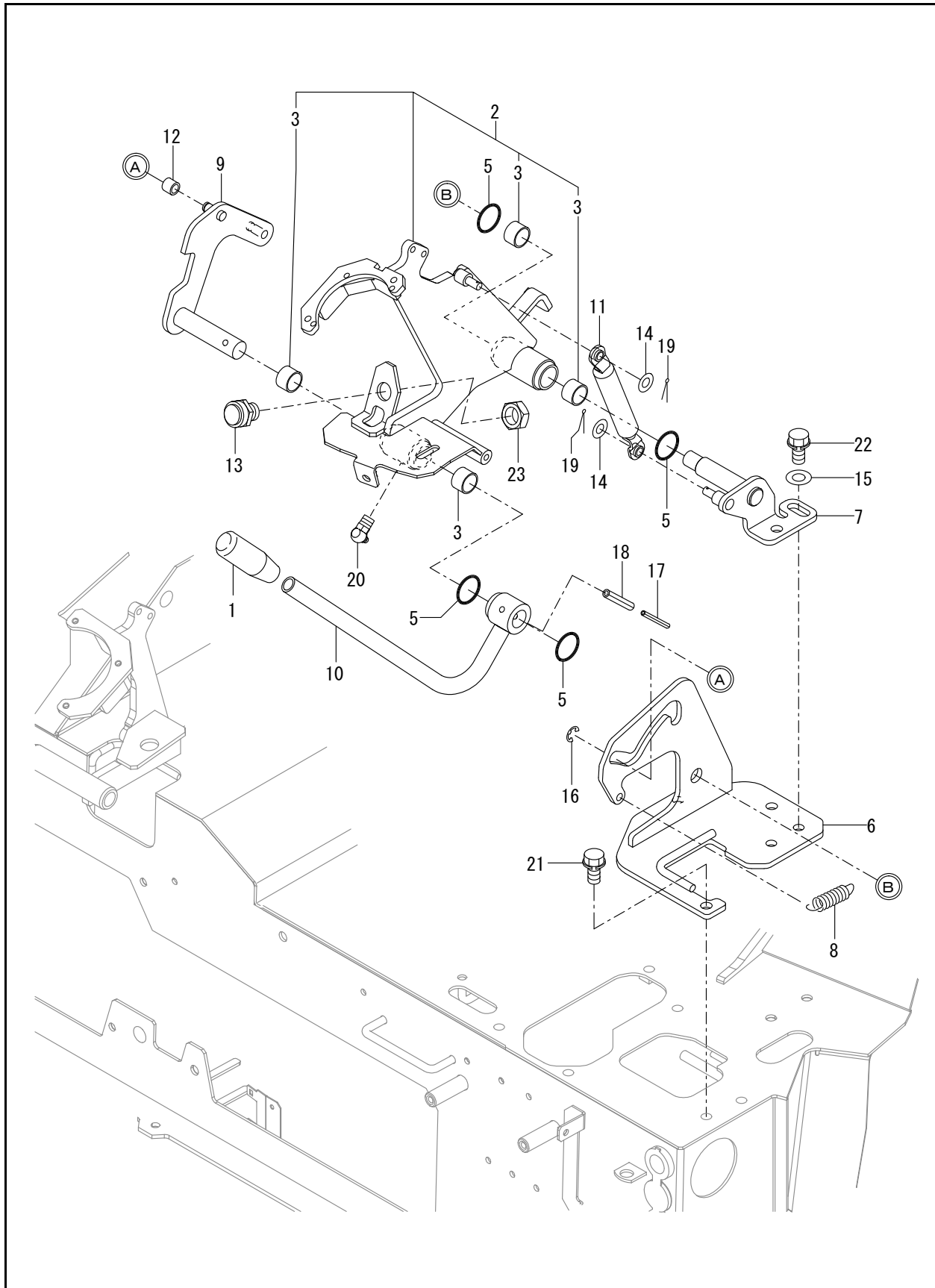
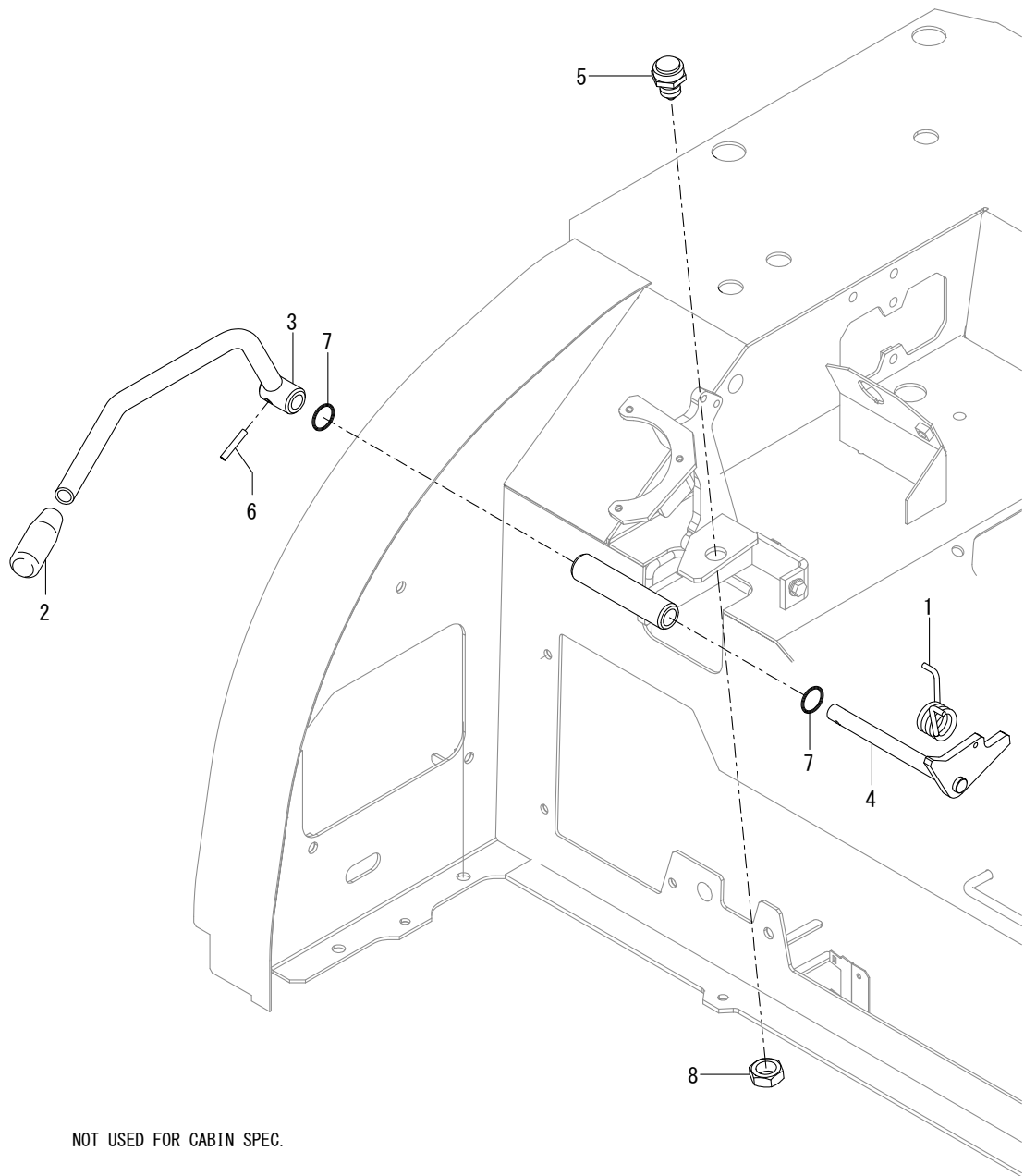


FIG. 39 - CONTROL EQUIPMENT (LOCK LEVER & STAND : LEFT)

Ref.	No.	Part No.	Description	Qty.
	1	50282079	GRIP,RED	1
	2	50283946	LEVER STND ASSY,L	1
	3	50280810	BUSHING 2015	4
	5	50280793	O-RING 27X5.7	4
	6	50283518	BASE ASSY,LEVER L	1
	7	50283519	PLATE ASSY, BASE	1
	8	50281653	SPRING 2.3X15X60	1
	9	50283520	ROD ASSY, SPRING	1
	10	50283522	LOCK LEVER ASSY,L	1
	11	50281071	SPRING,GAS	1
	12	50280894	BUSHING	1
	13	50282353	SWITCH, SAFETY START	1
	14	50282380	WASHER 8, POLISHED	2
	15	138111	WASHER/POLISHED	2
	16	176152	CIRCLIP E-7	1
	17	50282413	SPRING PIN 3.5X40	1
	18	50282414	SPRING PIN 6X40	1
	19	50282418	COTTER PIN 2.0X20	2
	20	50282499	NIPPLE C,GREASE	1
	21	50282515	BOLT W/WASHER M10X20	3
	22	50282516	BOLT W/WASHER M10X25	2
	23	186626	NUT M18 LOCK	1

FIG. 40 - CONTROL EQUIPMENT (LOCK LEVER & STAND : RIGHT)

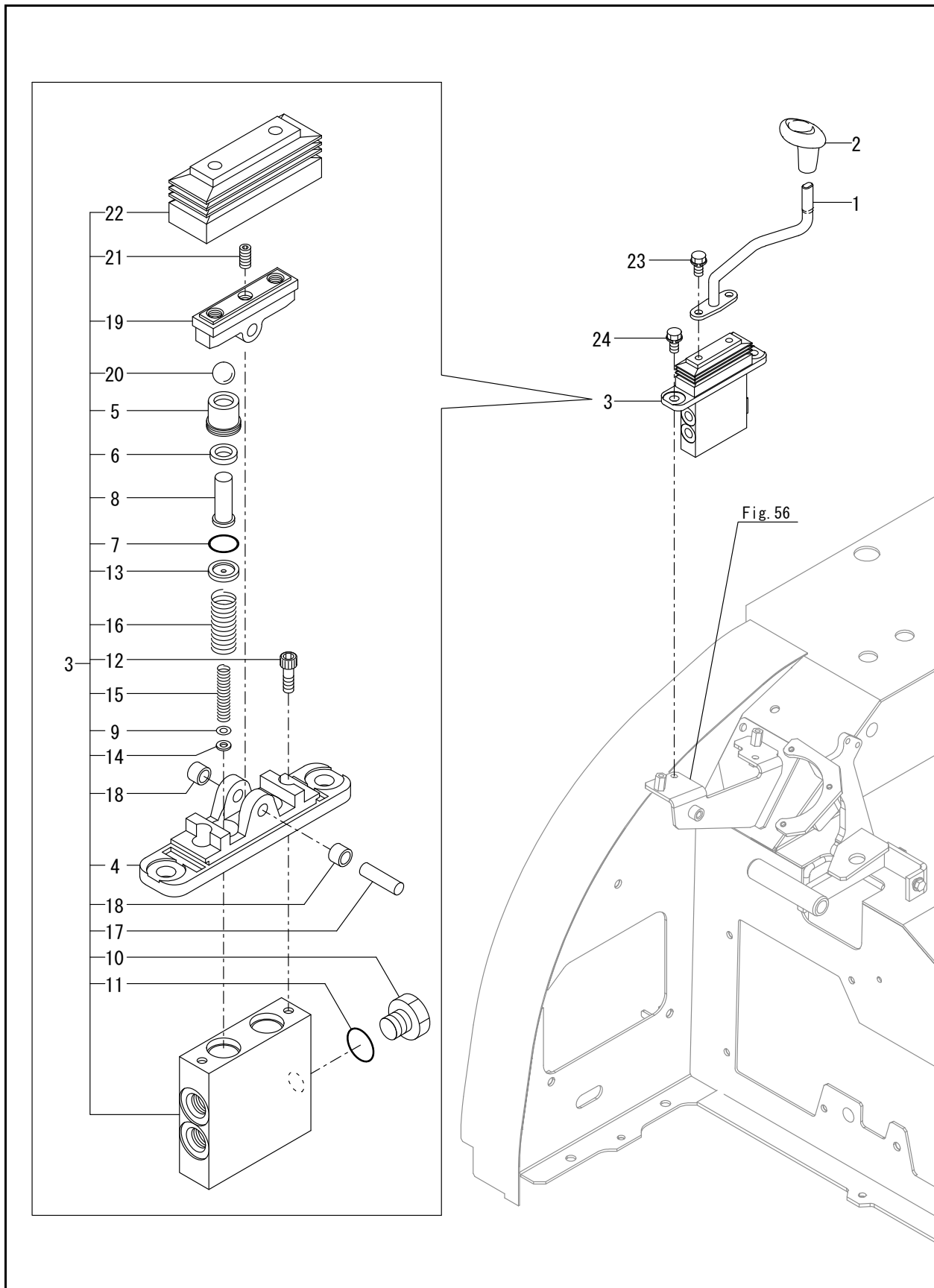


NOT USED FOR CABIN SPEC.

FIG. 40 - CONTROL EQUIPMENT (LOCK LEVER & STAND : RIGHT)

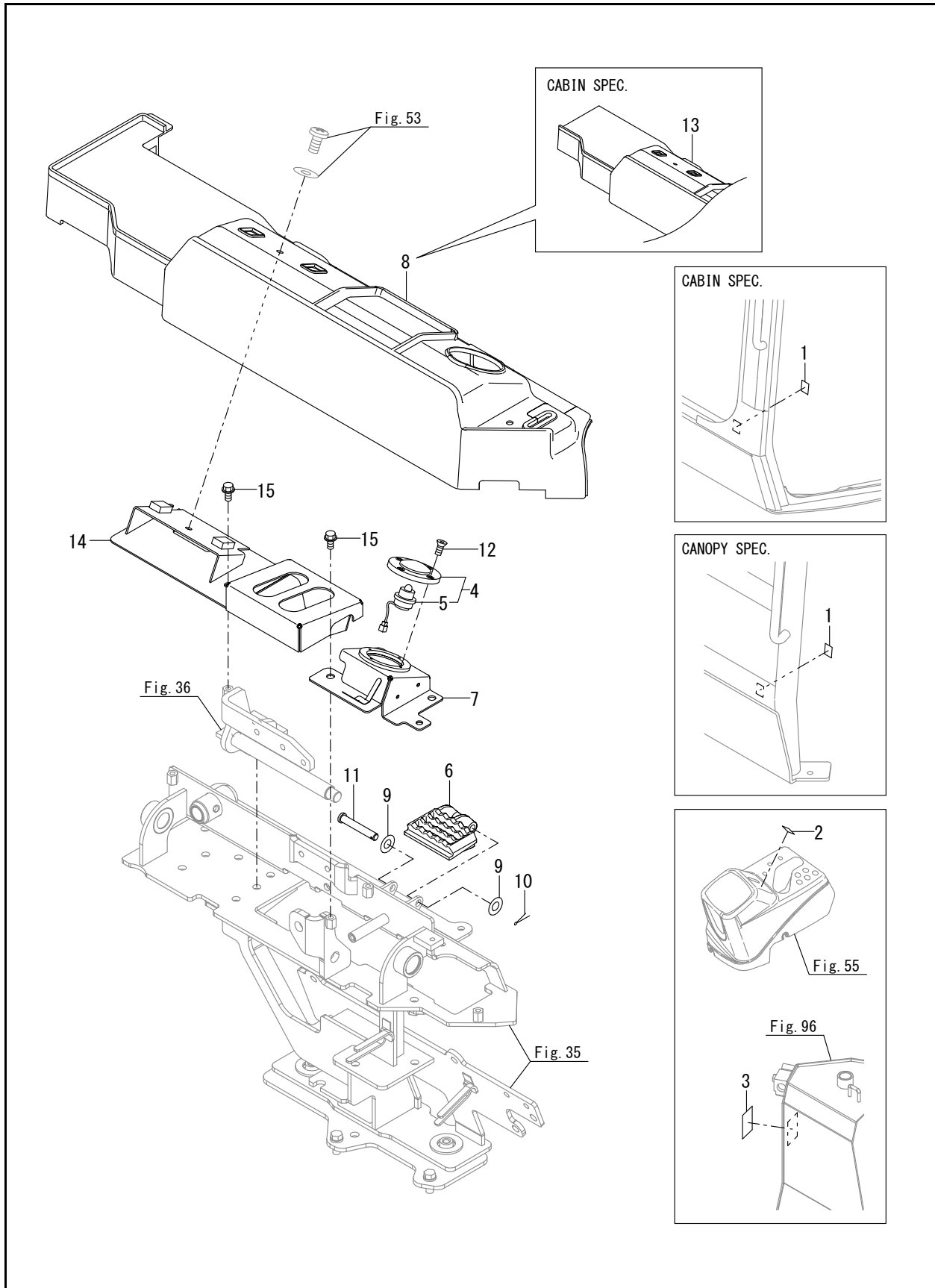
Ref.	No.	Part No.	Description	Qty.
	1	50282800	SPRING	1
	2	50282079	GRIP,RED	1
	3	50283524	LOCK LEVER ASSY,R	1
	4	50283526	SHAFT ASSY,R LEVER	1
	5	50282353	SWITCH, SAFETY START	1
	6	50284057	SPRING PIN 5X32	1
	7	50284076	O-RING 1A P-21.0	2
	8	186626	NUT M18 LOCK	1

FIG. 41 - CONTROL EQUIPMENT (BLADE LEVER)

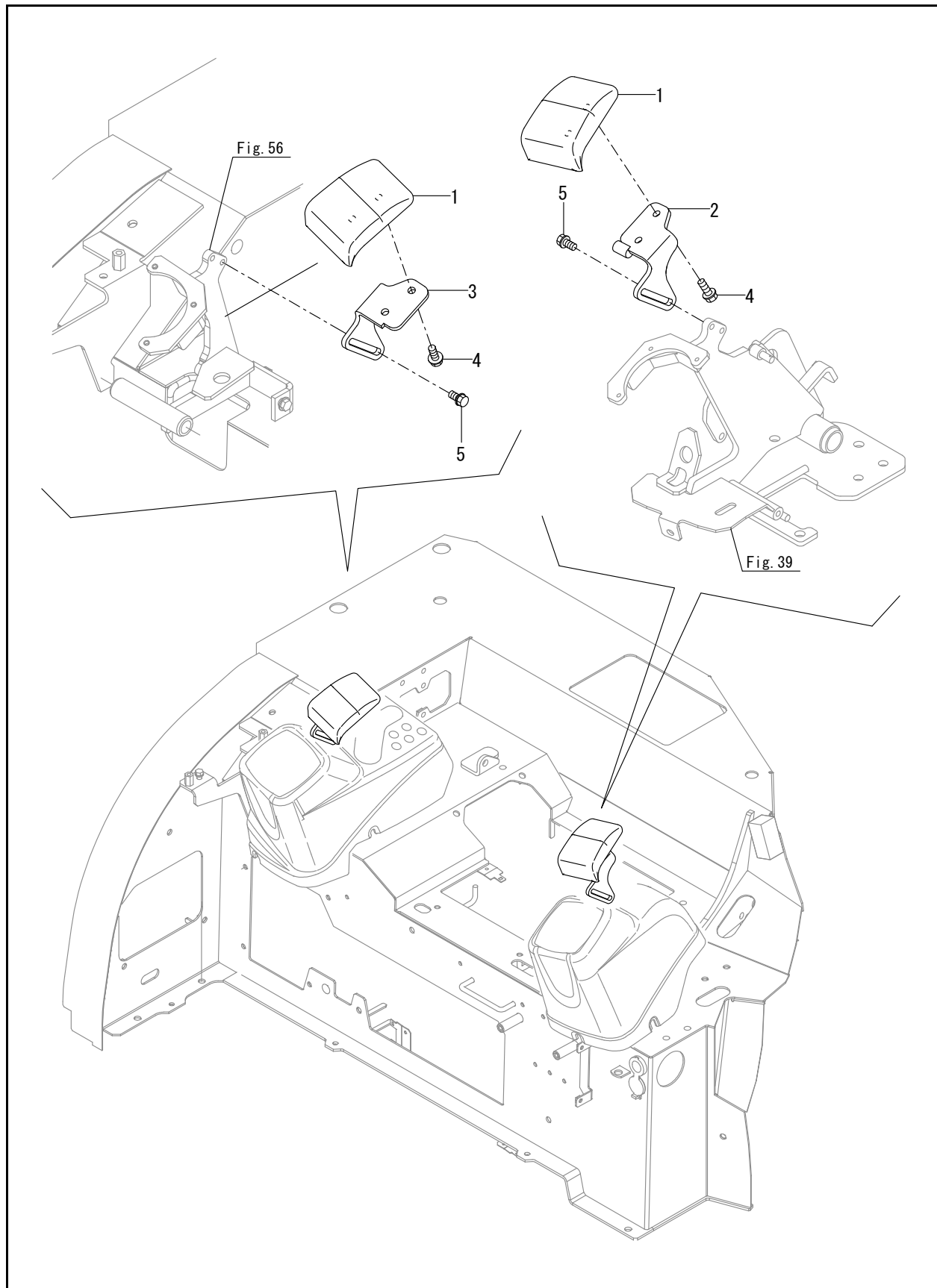


Ref.	No.	Part No.	Description	Qty.
	1	50283332	LEVER, BLADE	1
	2	50282786	GRIP, BLADE	1
	3	50283714	VALVE ASSY,BLADE	1
	4	50281469	COVER	1
	5	50281470	PLUG	2
	6	50281471	PACKING	2
	7	50281472	O-RING	2
	8	50281473	ROD,PUSH	2
	9	50281474	SHIM	2
	10	50281475	PLUG	1
	11	50281476	O-RING	1
	12	50281477	SCREW,HEX.S.H.C	2
	13	50281478	SEAT,SPRING	2
	14	50281479	WASHER	2
	15	50281480	SPRING	2
	16	50283715	SPRING	2
	17	50281481	CAM SHAFT	1
	18	50281482	BUSHING	2
	19	50281483	CAM	1
	20	50281484	BALL,STEEL	2
	21	50281485	SET SCREW	1
	22	50281486	BELLOWS	1
	23	50282506	BOLT W/WASHER M8X16	2
	24	50282507	BOLT W/WASHER M8X20	2

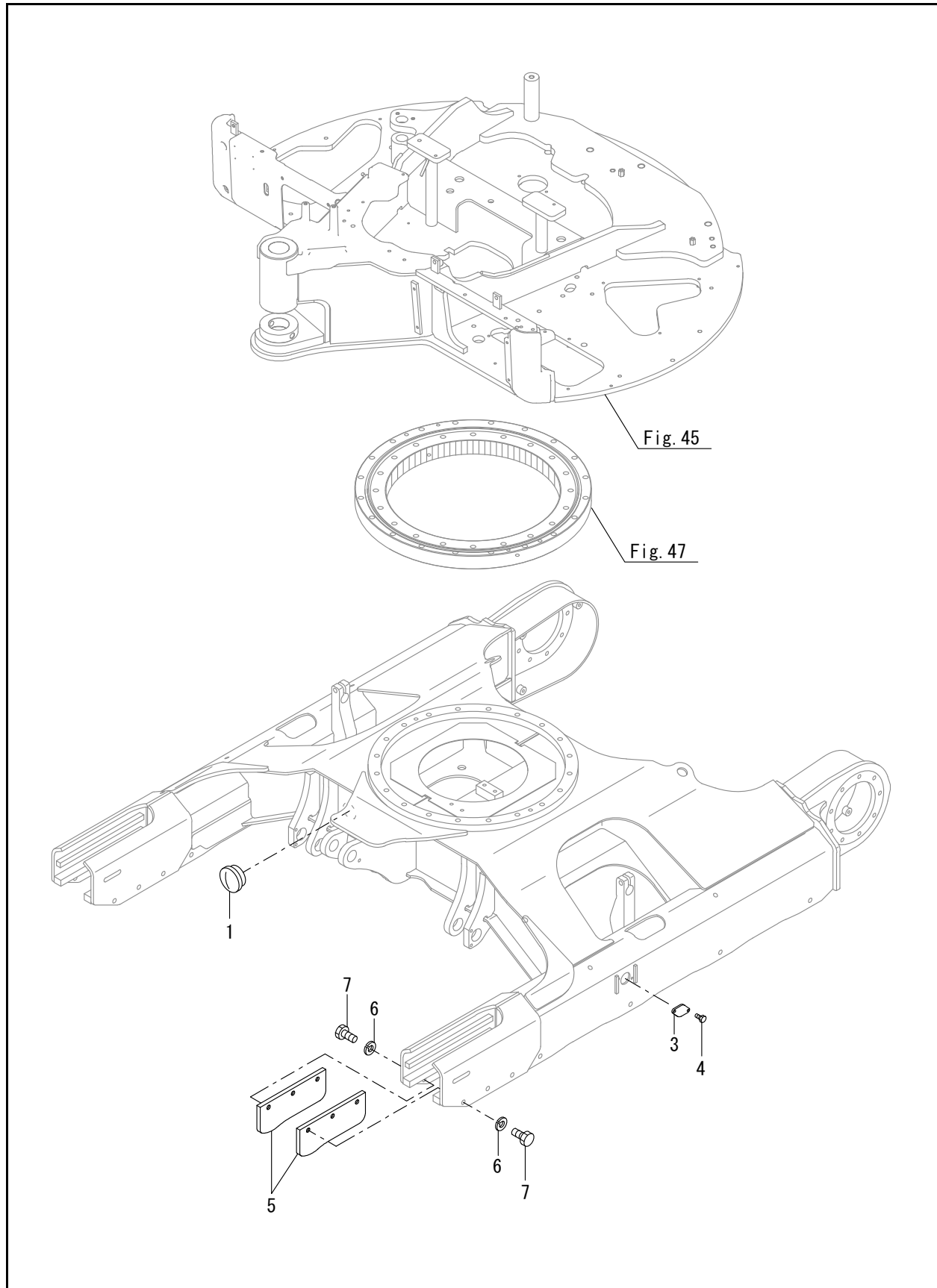
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FIG. 42 - CONTROL EQUIPMENT (P.T.O.)



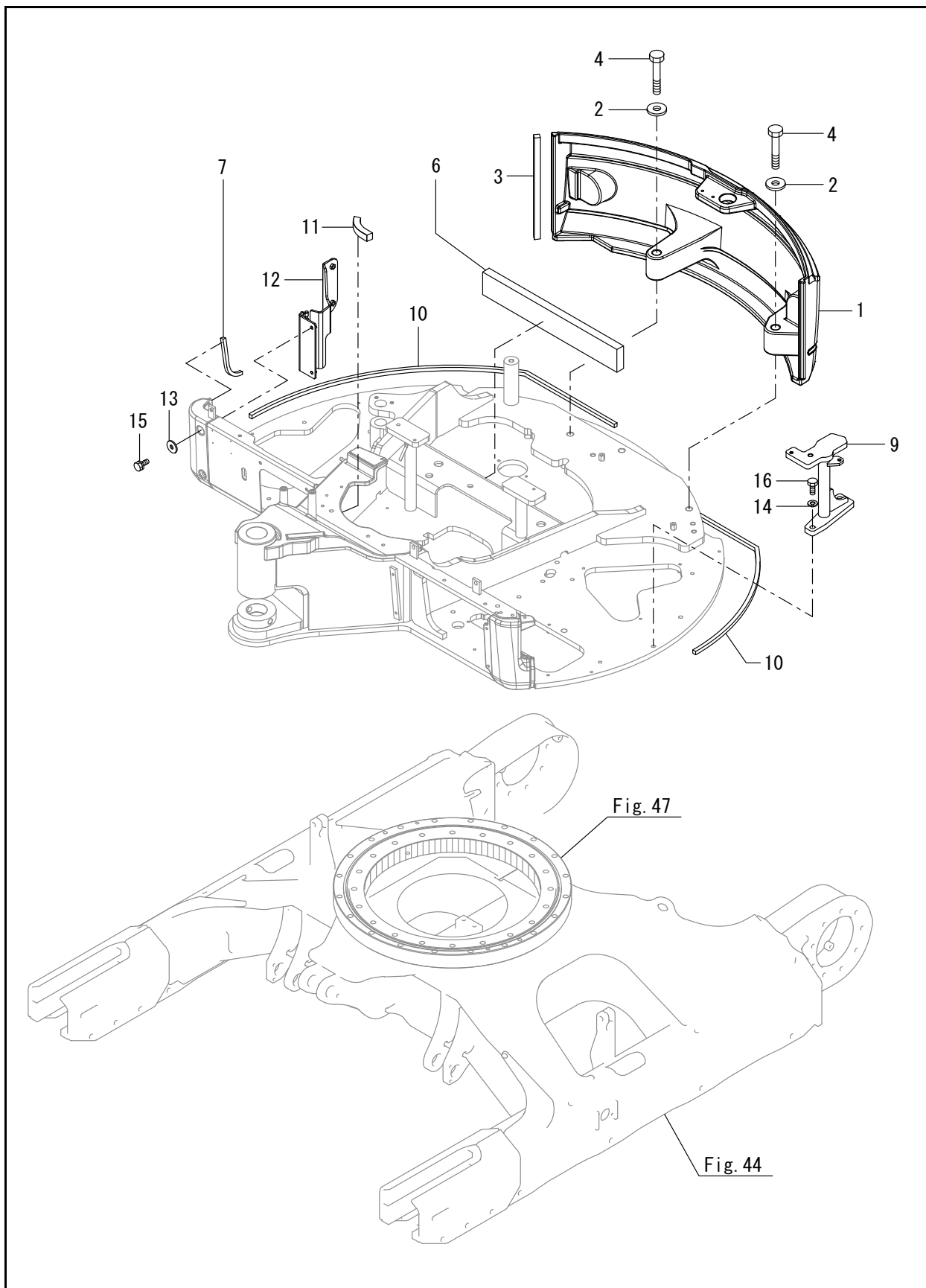
Ref. No.	Part No.	Description	Qty.
1	50283350	LABEL,PTO FOOT	1
2	50283351	LABEL,PTO SWITCH	1
3	50283352	LABEL,PTO SELECT	1
4	50283330	SWITCH ASSY, PTO	1
5	50283331	SAFETY SWITCH	1
6	50283504	PEDAL	1
7	50283569	STEP ASSY, PTO	1
8	50283575	FLOOR MAT (CANOPY)	1
9	138111	WASHER/POLISHED	2
10	50282418	COTTER PIN 2.0X20	1
11	50284058	PIN, H10X60	1
12	50284062	SCREW	4
13	50283335	FLOOR MAT,CAB	1
14	50283560	STEP ASSY,CONTROL	1
15	425-34733	BOLT M8 X 16 PLATED	5



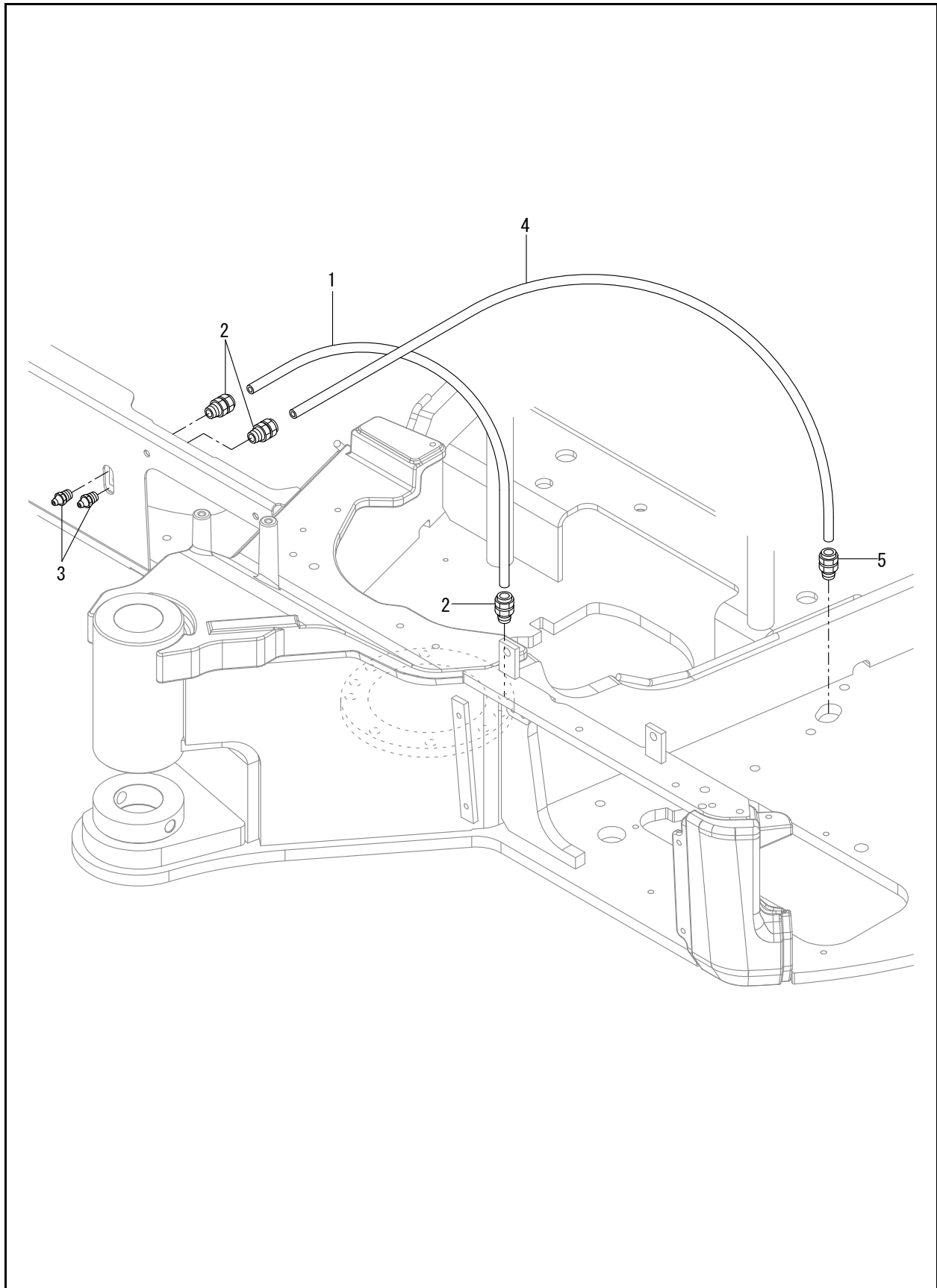
Ref.	No.	Part No.	Description	Qty.
	1	50281043	ARM REST	2
	2	50283333	GUIDE ASSY	1
	3	50283334	PLATE, GUIDE	1
	4	50281318	BOLT 8X 16	4
	5	50281318	BOLT 8X 16	4



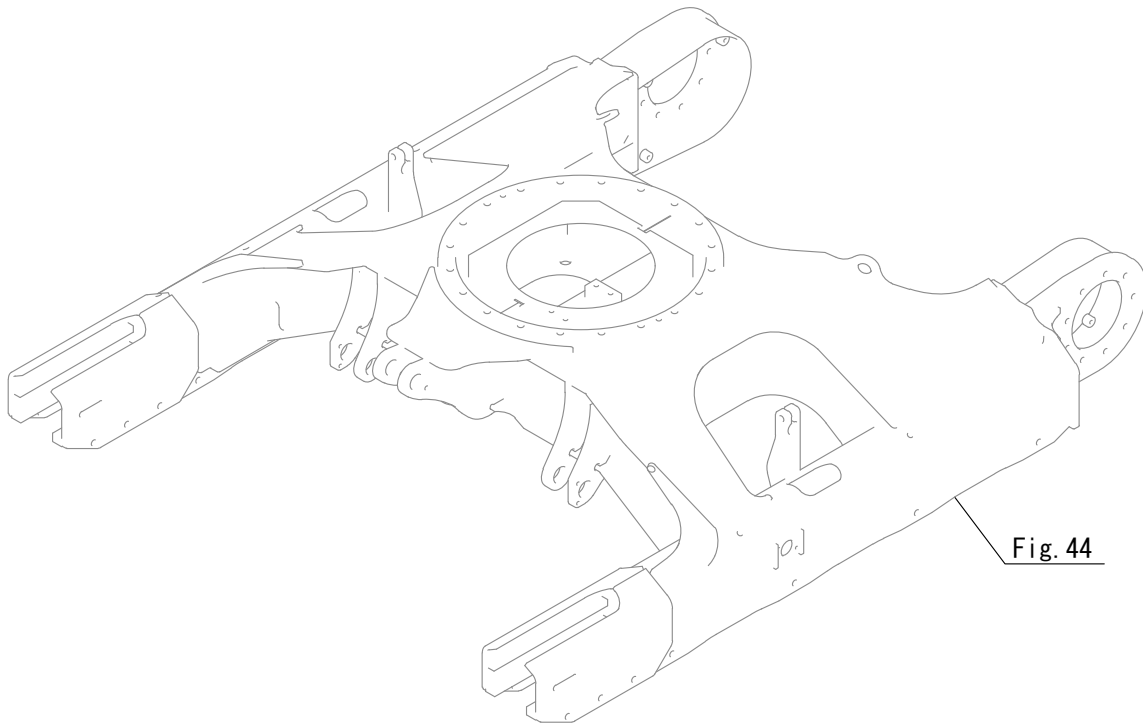
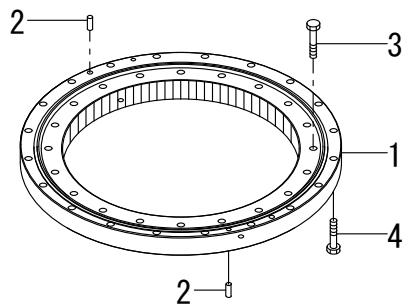
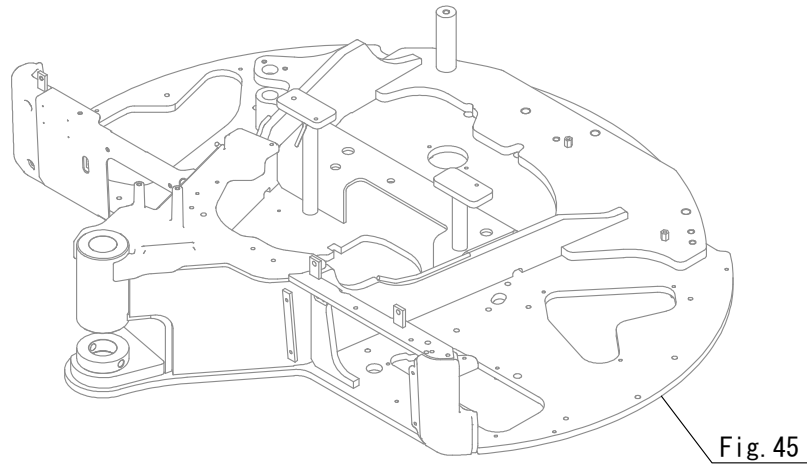
Ref.	No.	Part No.	Description	Qty.
	1	50282727	GROMMET	1
	3	50281136	FRAME COVER	2
	4	50282558	BOLT M10X 12 PLATED	4
	5	50282859	GUARD, CRAWLER	4
	6	50282396	SPRING WASHER 16	12
	7	50282569	BOLT M16X 35 PLATED	12



Ref.	No.	Part No.	Description	Qty.
	1	50283527	COUNTERWEIGHT	1
	2	50280943	WASHER 24.5X65X8	2
	3	50283528	SEAL,WEIGHT	1
	4	50281072	BOLT 24X140	2
	6	50283948	EV ,TF	1
	7	50283949	SEAL,185	1
	9	50283530	BOSS ASSY,L	1
	10	50283531	SEAL, 1360	1
	11	50283533	EV A,FRAME	1
	12	50283620	HINGE ASSY,RF	1
	13	138111	WASHER/POLISHED	2
	14	50282396	SPRING WASHER 16	2
	15	50282519	BOLT M10X 40	2
	16	50282570	BOLT M16X 40 PLATED	2

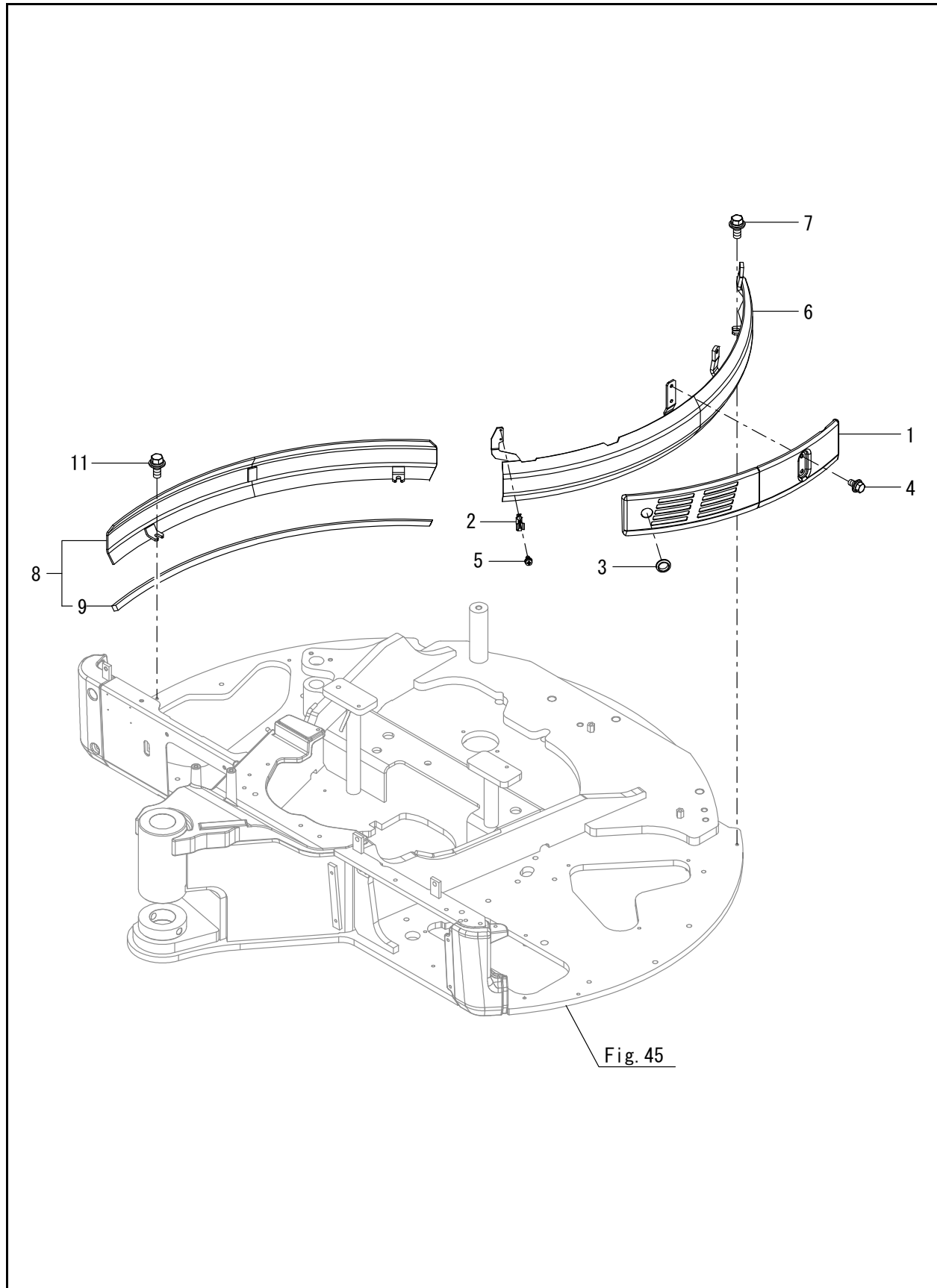


Ref.	No.	Part No.	Description	Qty.
	1	50283790	HOSE	1
	2	50281493	JOINT,GREASE	3
	3	50282497	NIPPLE PT1/8,GREASE	2
	4	50283791	HOSE	1
	5	50281493	JOINT,GREASE	1

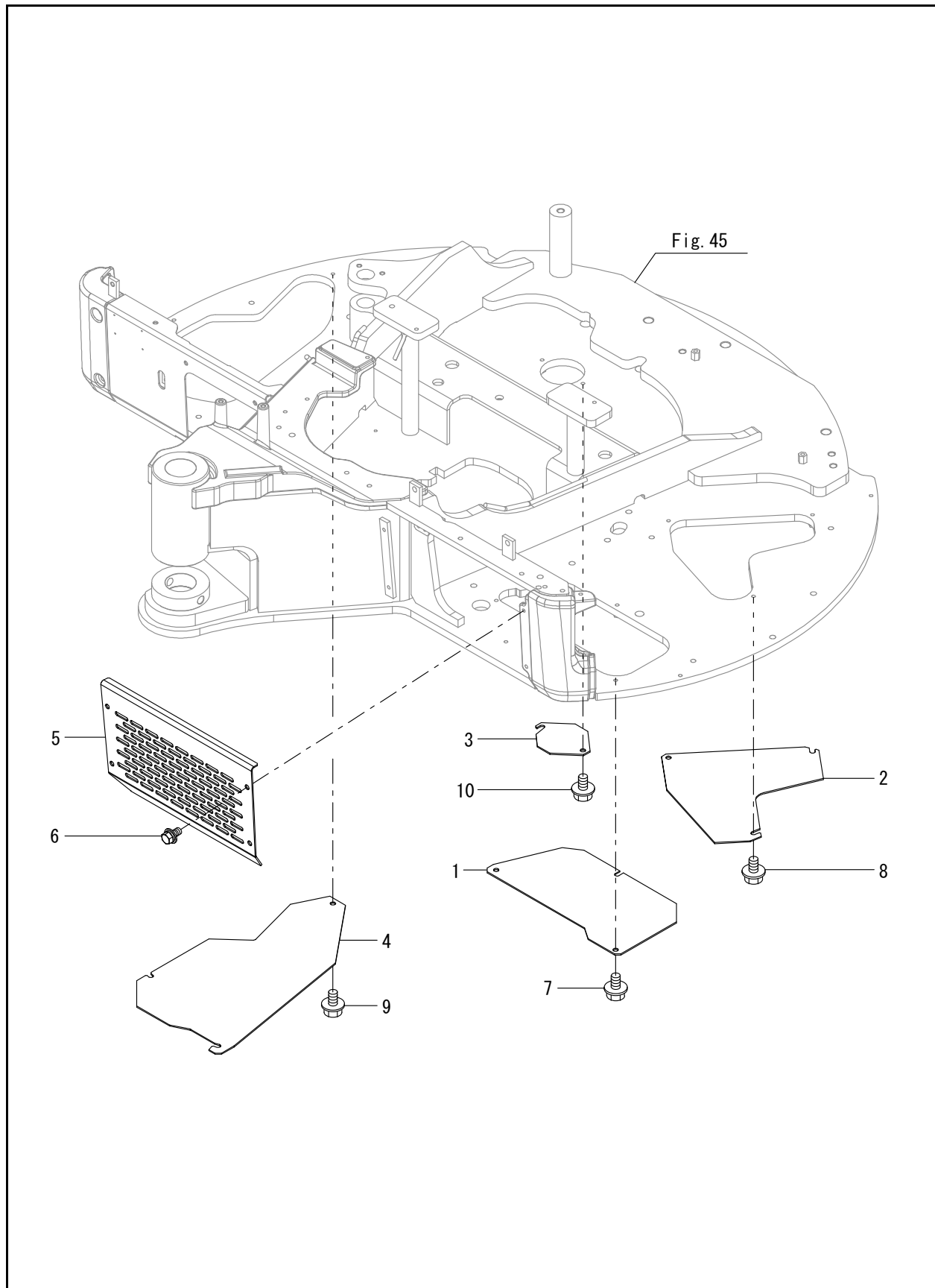


Ref.	No.	Part No.	Description	Qty.
	1	50282896	BEARING,TURNING	1
	2	50282703	PARALLEL PIN 13X36	4
	3	50282921	BOLT 16X90	20
	4	50283984	BOLT 10.9 16X80	20

FIG. 48 - FRAME GUARD

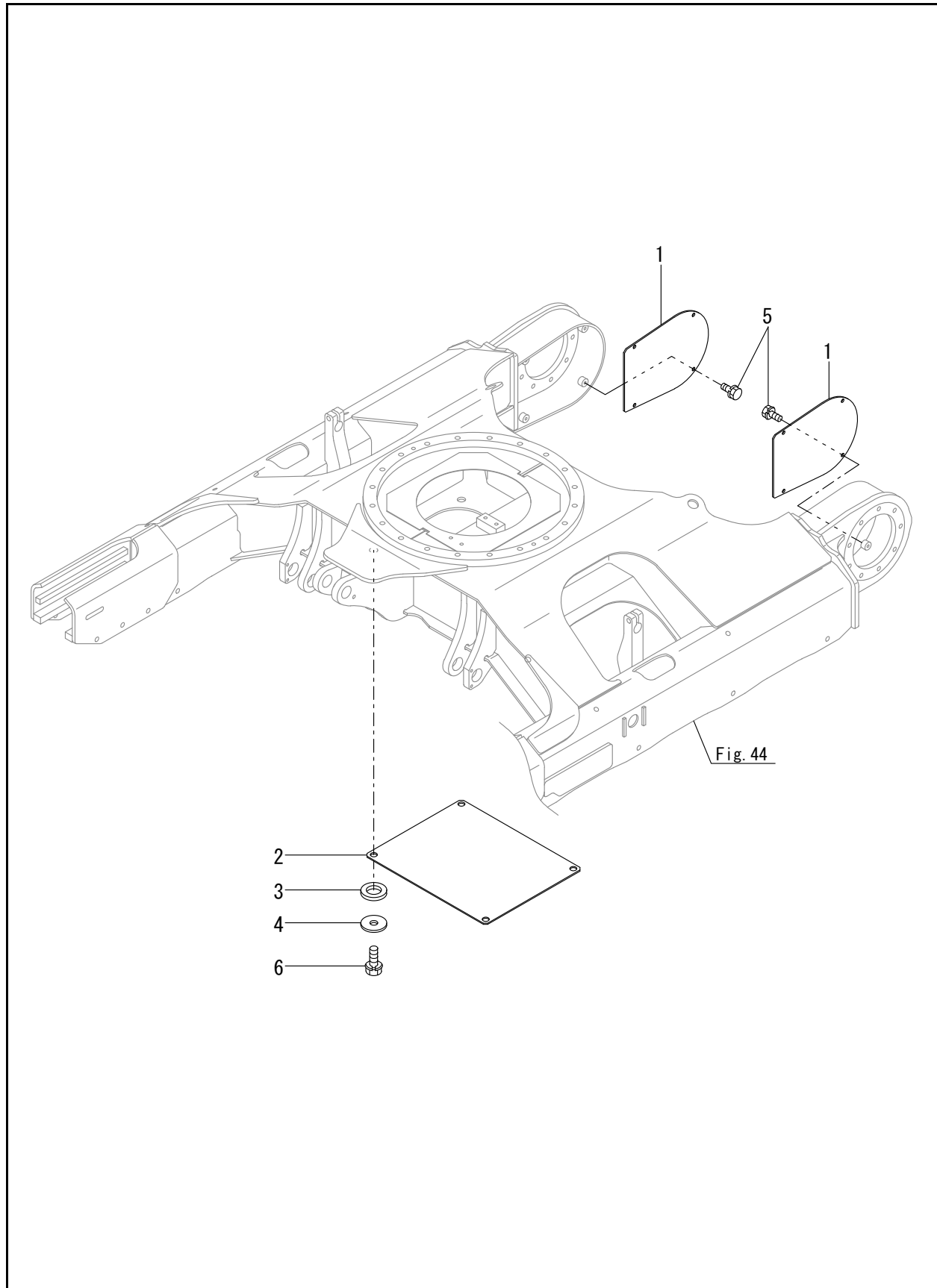


Ref. No.	Part No.	Description	Qty.
1	50286287	COVER ASSY	1
2	50282360	HOLDER	1
3	50280805	GROMMET	1
4	50282533	BOLT M 8X 16	2
5	50282543	SCREW M 5X 10	2
6	50283535	GUARD, FRAME (use with label 12A)	1
7	50282539	BOLT 10X25 W/PLW+SPW	2
8	50283534	GUARD, FRAME (use with label 12B)	1
9	50282968	SEAL 960	1
11	50282539	BOLT 10X25 W/PLW+SPW	2
12A	50281023	LABEL, GREASE CYL. (see Page 4, Page 6)	1
12B	50281023	LABEL, GREASE CYL. (see Page 4, Page 6)	1



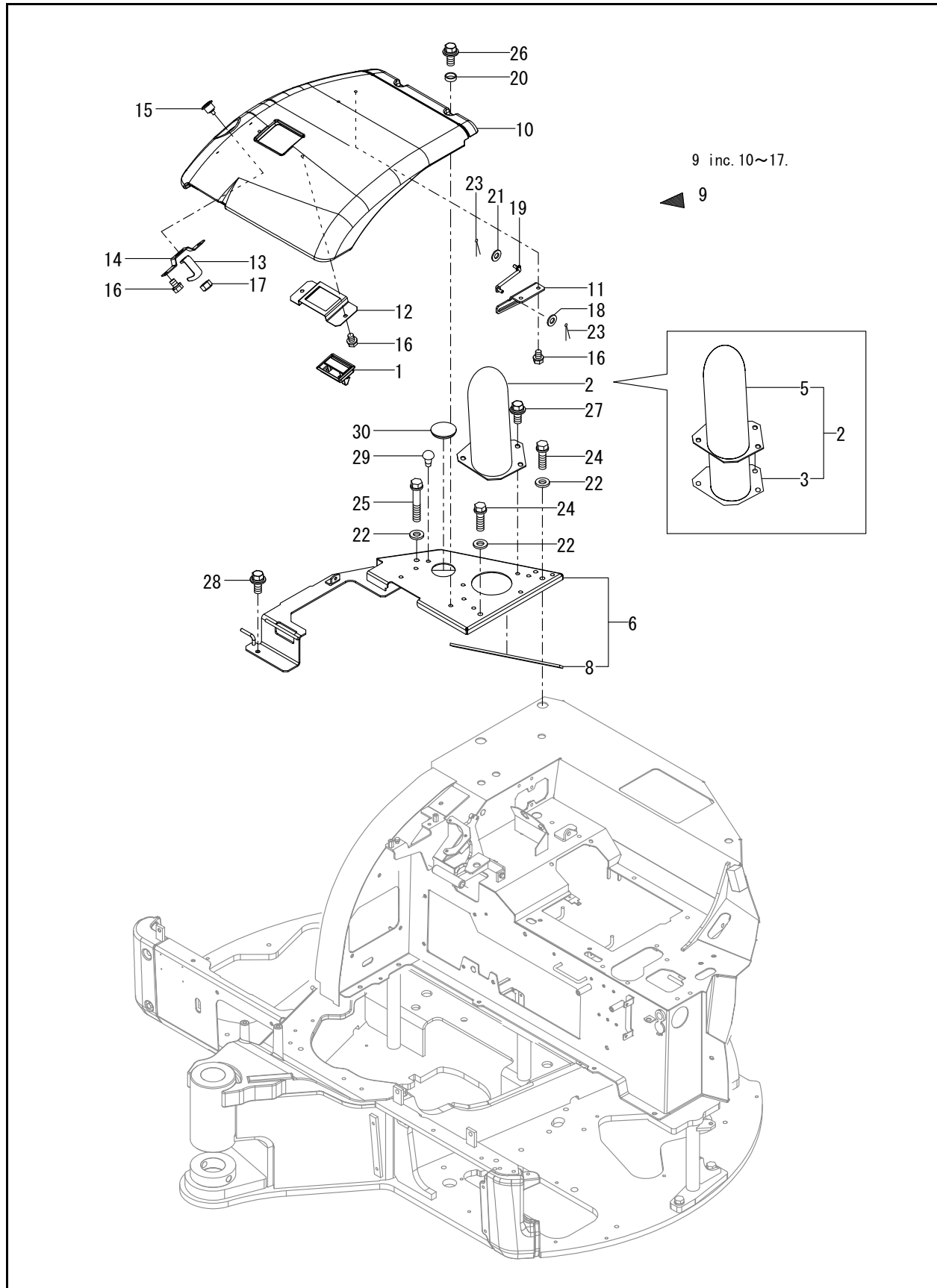
Ref.	No.	Part No.	Description	Qty.
	1	50283538	COVER, VALVE STAND A	1
	2	50283539	COVER, VALVE STAND B	1
	3	50283540	COVER, OIL SUMP	1
	4	50283541	COVER, FUEL OIL	1
	5	50283542	COVER, VALVE FRONT	1
	6	50282533	BOLT M 8X 16	4
	7	186619	BOLT M10X 16 PLATED	4
	8	186619	BOLT M10X 16 PLATED	2
	9	186619	BOLT M10X 16 PLATED	2
	10	186619	BOLT M10X 16 PLATED	2

FIG. 51 - COVER (TRAVEL FRAME)

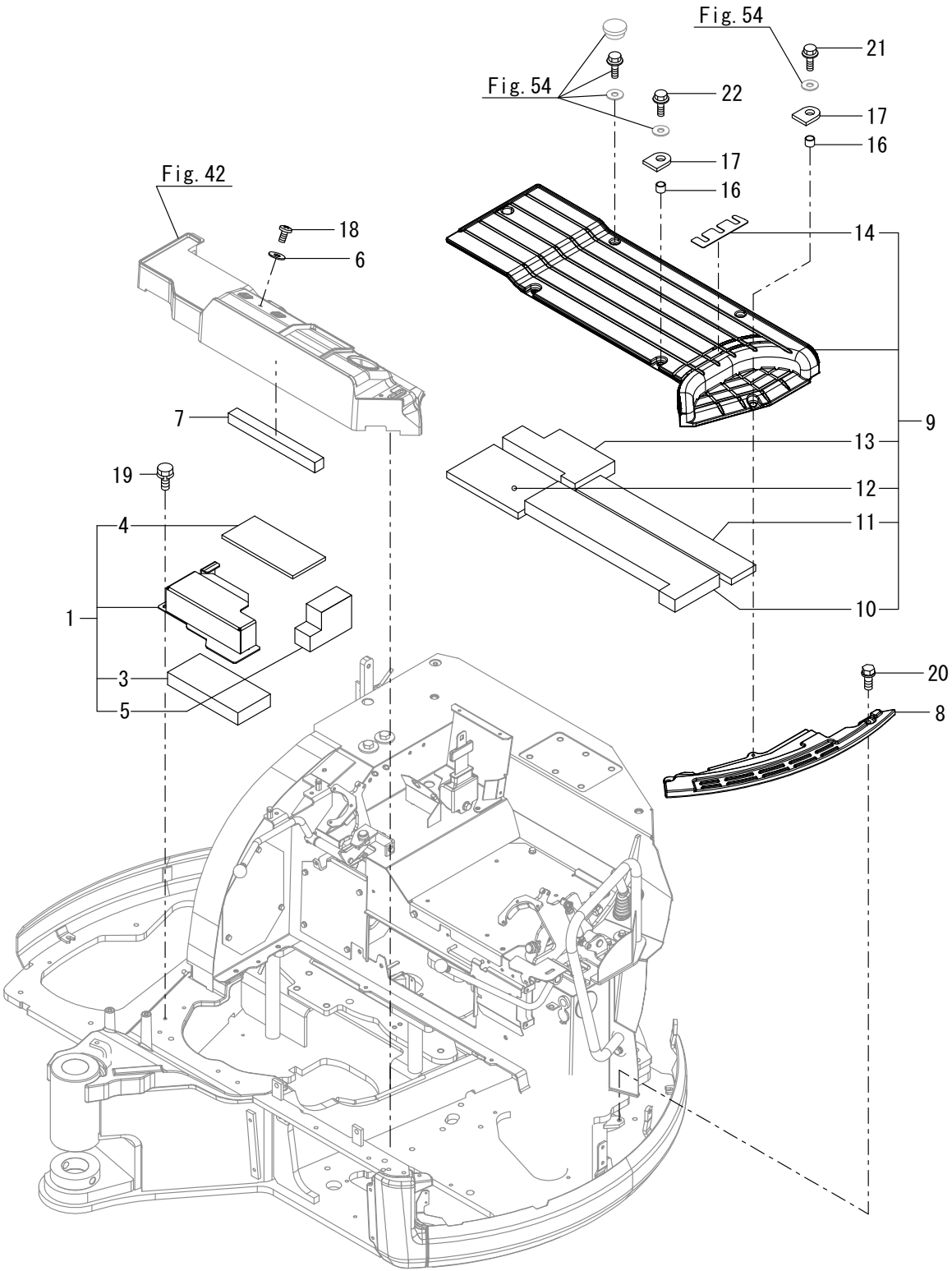


Ref.	No.	Part No.	Description	Qty.
	1	50283113	COVER, MOTOR	2
	2	50283115	COVER	1
	3	50280863	RUBBER	4
	4	50282388	WASHER 12	4
	5	50282515	BOLT W/WASHER M10X20	8
	6	50282525	BOLT W/WASHER M12X30	4

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FIG. 52 - COVER (BONNET)

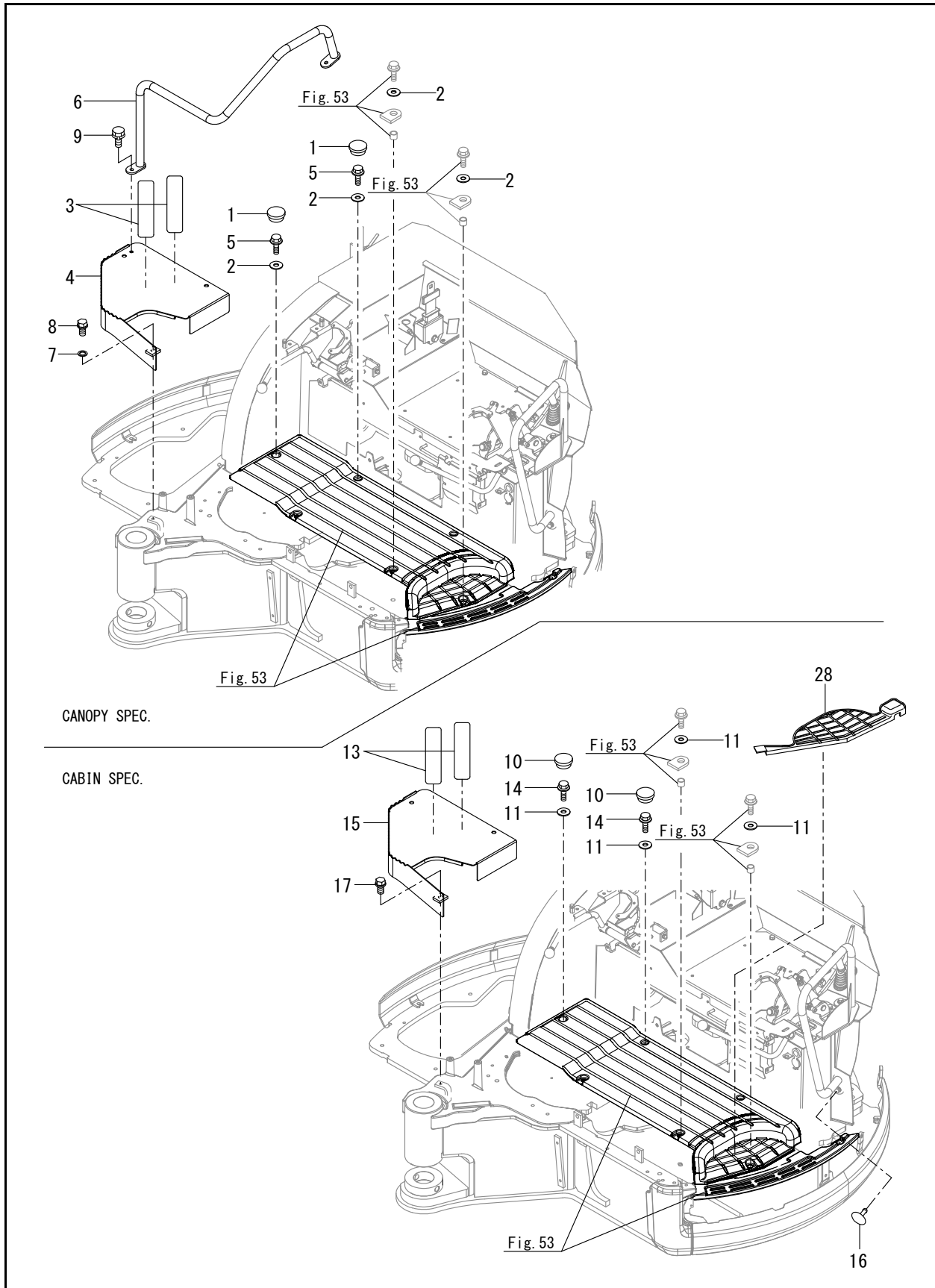


Ref.	No.	Part No.	Description	Qty.
	1	50280945	HANDLE, LOCK	1
	2	50283116	COVER	1
	3	50286516	EXHAUST COVER	1
	5	50286517	EXHAUST COVER	1
	6	50283551	MUFFLER COVER	1
	8	50283552	SEAL A,COVER	1
	9	50286602	COVER ASSY	1
	10	50283537	COVER ASSY	1
	11	50283553	GUIDE, STOPPER	1
	12	50283554	STAY,CATCH	1
	13	50283555	STAY,KYE	1
	14	50283556	ROCK PLATE	1
	15	50280889	KEY ASSY, CYLINDER	1
	16	50282505	BOLT M 8X 12	6
	17	50282576	U-NUT M10	1
	18	50282361	WASHER	1
	19	50281051	ROD,STOPPER	1
	20	50283614	COLOR 13X16X5	2
	21	50282380	WASHER 8, POLISHED	1
	22	138111	WASHER/POLISHED	3
	23	50282418	COTTER PIN 2.0X20	2
	24	50282518	BOLT M10X 35	2
	25	50284098	BOLT M10 X 60	1
	26	50282539	BOLT 10X25 W/PLW+SPW	2
	27	50282539	BOLT 10X25 W/PLW+SPW	3
	28	50282539	BOLT 10X25 W/PLW+SPW	1
	29	50280782	CLIP	4
	30	50283272	CAP	1



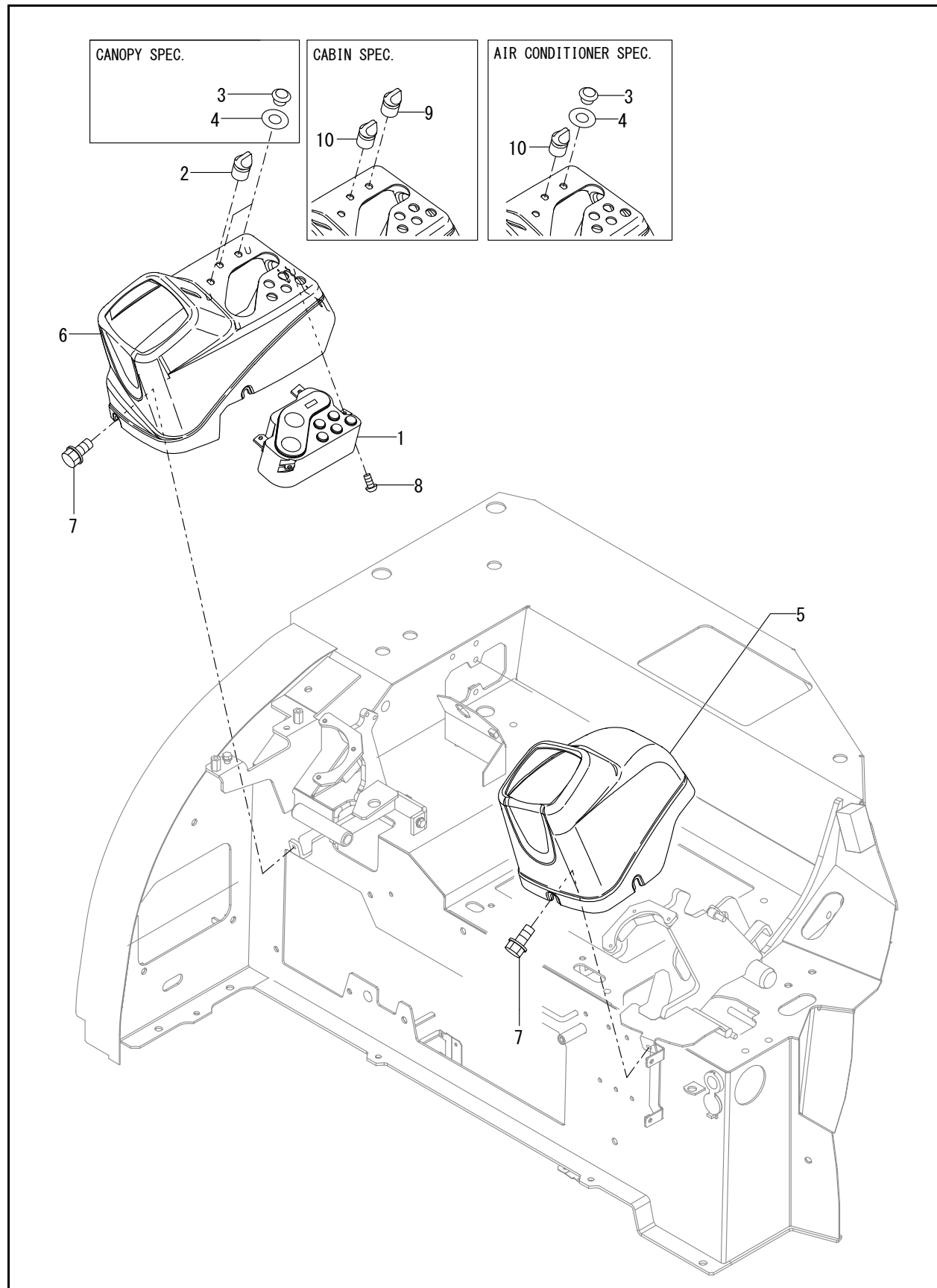
Ref.	No.	Part No.	Description	Qty.
	1	50283557	STEP ASSY	1
	3	50283562	EV B STEP	1
	4	50283563	EV C STEP	1
	5	50283568	EV D,COVER	1
	6	50282970	WASHER M8	2
	7	50283576	EV A,FLOOR MAT	1
	8	50283577	PLATE, NON SLIP STEP	1
	9	50283579	STEP A ASSY	1
	10	50283561	EV A,STEP	1
	11	50283572	EV D1,STEP	1
	12	50283573	EV E,STEP	1
	13	50283574	EV D2,STEP	1
	14	50283578	NON SLIP SEAT	1
	16	50283580	COLLAR 10X12X10	3
	17	50283581	PAD ABSORBER,STEP	3
	18	50282721	SCREW	2
	19	50282515	BOLT W/WASHER M10X20	2
	20	50282516	BOLT W/WASHER M10X25	2
	21	425-34746	BOLT M8 X 20 PLATED	1
	22	425-34765	BOLT M8 X 25 PLATED	2

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 54 - STEP (2)

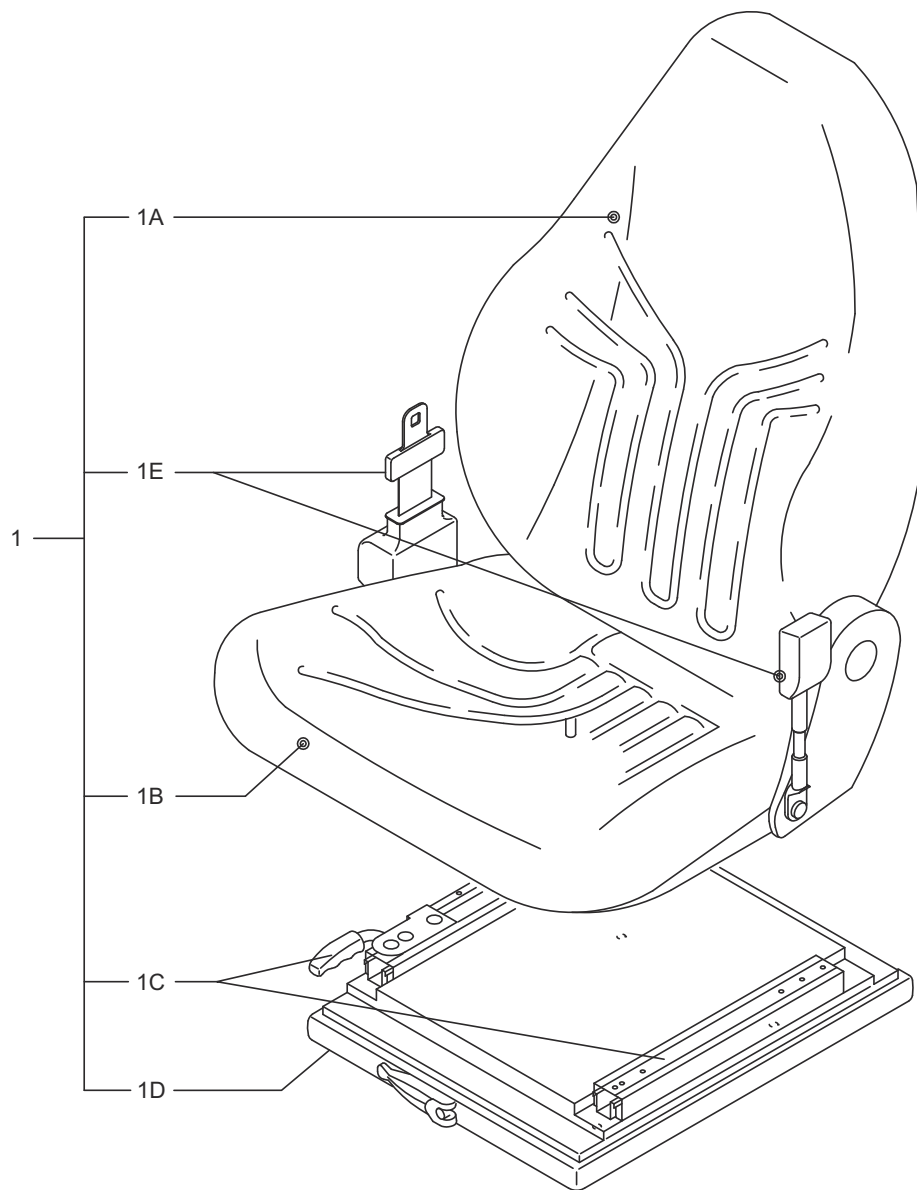


Ref.	No.	Part No.	Description	Qty.
	1	50283558	CAP,CLIP	3
	2	50282361	WASHER	6
	3	50282788	SHEET,NON SLIP50X200	2
	4	50283583	STEP R ASSY,P (GRAY: 49)	1
	5	50283584	BOLT 8X20	3
	6	50283597	HANDRAIL R ASSY (73)	1
	7	138111	WASHER/POLISHED	3
	8	50282515	BOLT W/WASHER M10X20	3
	9	50282515	BOLT W/WASHER M10X20	2
	10	50283558	CAP,CLIP	3
	11	50282361	WASHER	5
	12	50283570	MAT, FLOOR	1
	13	50282788	SHEET,NON SLIP50X200	2
	14	50283584	BOLT 8X20	2
	15	50283586	STEP R ASSY,C	1
	16	50282889	CLIP	1
	17	50282515	BOLT W/WASHER M10X20	3

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 55 - INSTRUMENT PANEL

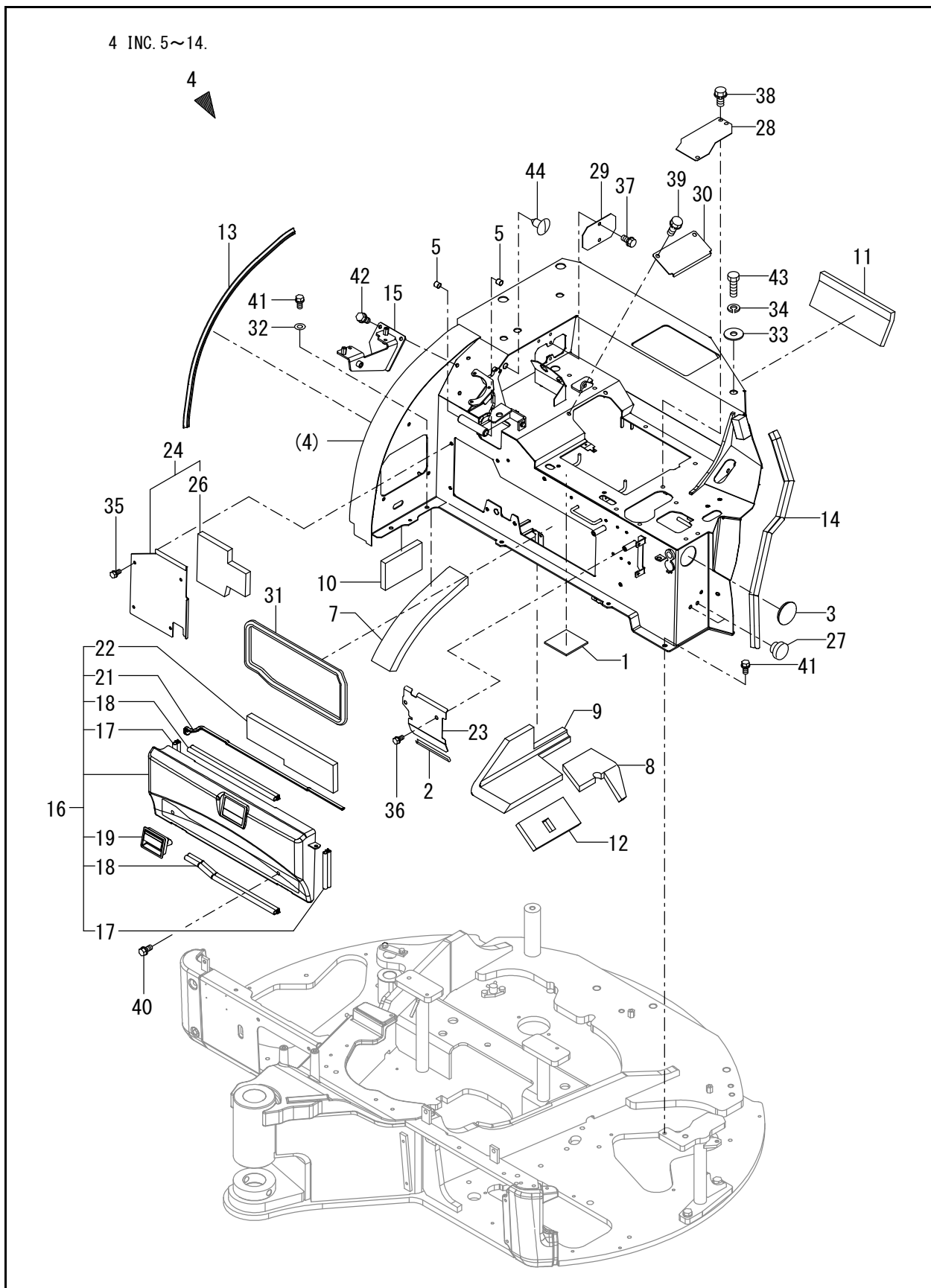


Ref.	No.	Part No.	Description	Qty.
	1	50282078	MONITOR ASSY	1
	2	50282843	SWITCH ASSY, LIGHT	1
	3	50282845	CAP	2
	4	50282846	GASKET	2
	5	50283587	IN-PANE,L	1
	6	50283588	IN-PANE,R	1
	7	50281318	BOLT 8X 16	6
	8	50282422	SCREW 5X12	4
	9	50282844	SWITCH, HEATER	1
	10	50283231	SWITCH ASSY,WASHER	1



Ref.	No.	Part No.	Description	Qty.
	1	50286421	COMPLETE SEAT	1
	1A	50286427	SEAT BACK KIT	1
	1B	50286426	SEAT CUSHION KIT	1
	1C	50286425	ADJUSTMENT RAILS KIT	1
	1D	50286428	SEAT SUSPENSION	1
		50286424	SEAT SUSPENSION REBUILD KIT (not shown)	1
		50286423	SHOCK ABSORBER KIT (not shown)	1
	1E	50286422	RETRACTABLE SEAT BELT KIT/2	"1
		203047	KIT/3 INCH SEAT BELT	1

FIG. 56 - SEAT MOUNT



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50281056	RUBBER PLATE	2	39	50282514	BOLT M10X 16	2
2	50281049	SEAL 125	1	40	50282515	BOLT W/WASHER M10X20	2
3	50283272	CAP	1	41	50282515	BOLT W/WASHER M10X20	4
4	50286603	SEAT MOUNT ASSY (use with labels 45A, 45B, 45C)	1	42	50282515	BOLT W/WASHER M10X20	3
5	50282726	BUSHING 1415	2	43	50284127	BOLT M16 X 25 PLATED	4
7	50283600	EV A,SEAT MOUNT	1	44	50282987	CLIP 11	2
8	50283601	EV B,SEAT MOUNT	1	45A	50281174	LABEL, PIN US (see Page 4, Page 6)	1
9	50283602	EV C,SEAT MOUNT	1	45B	50281019	LABEL, MANUAL US (see Page 4, Page 6)	1
10	50283961	EV E,SEAT MOUNT	1	45C	50281033	LABEL, LEVER LOCK US (see Page 4, Page 6)	1
11	50283964	EV J,SEAT MOUNT	1	45D	50281172	LABEL, SUPPORT US (see Page 4, Page 6)	1
12	50283607	EV H,SEAT MOUNT	1				
13	50282888	SEAL B	1				
14	50283967	RUBBER, SEAL B	1				
15	50283957	BRACKET ASSY, BLADE	1				
16	50283958	COVER ASSY, MANUAL (use with label 45D)	1				
17	50282905	SEAL, G RADIATOR	2				
18	50282920	SEAL A, UNIT	2				
19	50280945	HANDLE, LOCK	1				
21	50283592	SEAL	1				
22	50283962	EV F,SEAT MOUNT	1				
23	50283593	COVER, ELECTRIC	1				
24	50283959	COVER A,SEAT M ASSY	1				
26	50283963	EV G,SEAT MOUNT	1				
27	50280948	PLUG	2				
28	50283341	COVER,SEAT MOUNT UP	1				
29	50283342	COVER	1				
30	50283343	COVER, SEAT MOUNT	1				
31	50282774	SEAL,COVER A	1				
32	138111	WASHER/POLISHED	2				
33	50282389	WASHER, 14	3				
34	50282396	SPRING WASHER 16	4				
35	50282506	BOLT W/WASHER M8X16	4				
36	50282506	BOLT W/WASHER M8X16	2				
37	50282506	BOLT W/WASHER M8X16	2				
38	50282514	BOLT M10X 16	2				

FIG. 57 - SEAT MOUNT COVER & HAND HOLD

NOTE: CANOPY SPEC. ONLY

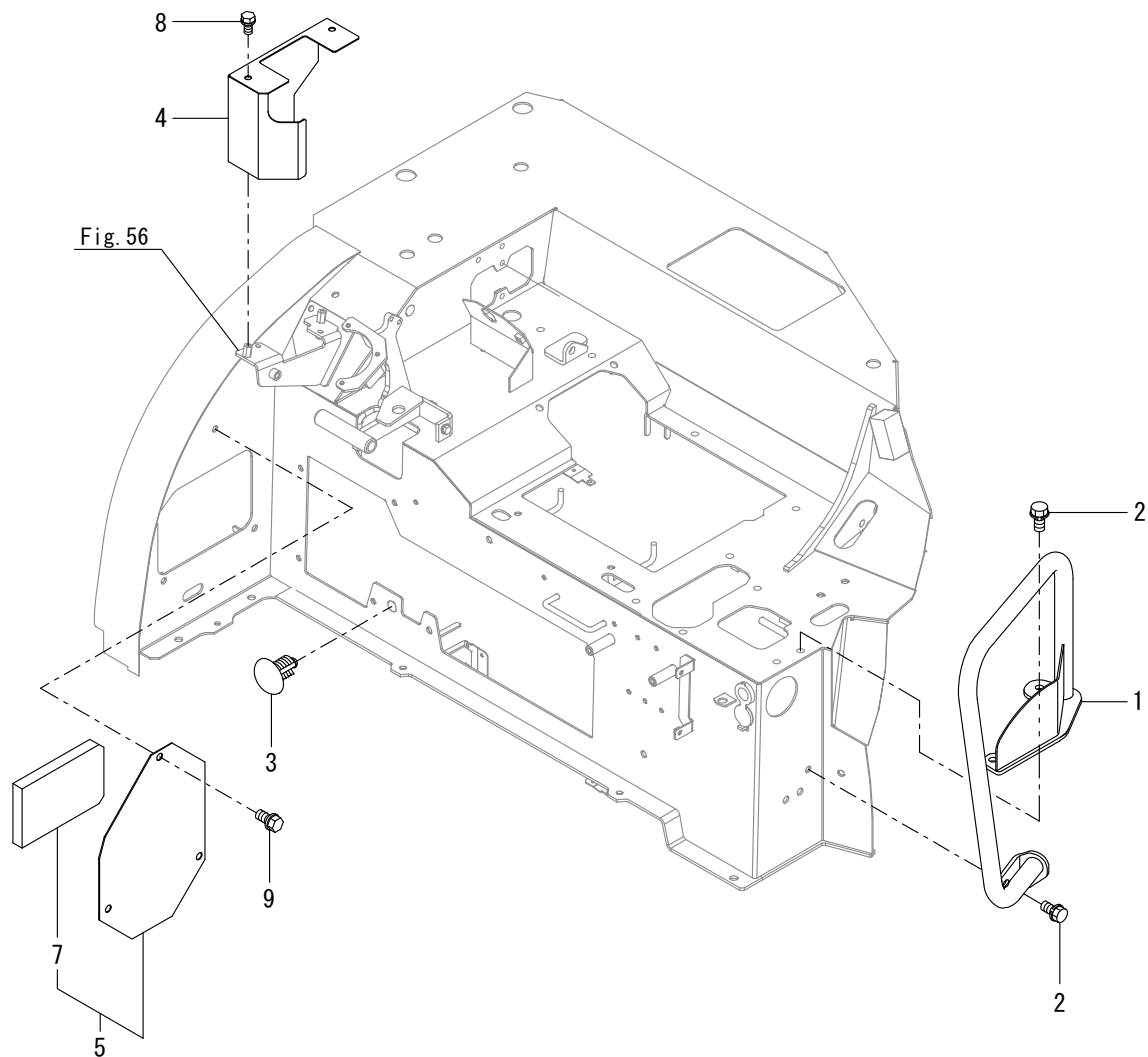


FIG. 57 - SEAT MOUNT COVER & HAND HOLD

Ref.	No.	Part No.	Description	Qty.
	1	50283595	HAND HOLD ASSY	1
	2	50282515	BOLT W/WASHER M10X20	2
	3	50280782	CLIP	1
	4	50283543	COVER, BLADE	1
	5	50283960	COVER B,SEAT M ASSY	1
	7	50283961	EV E,SEAT MOUNT	1
	8	50282506	BOLT W/WASHER M8X16	2
	9	50282515	BOLT W/WASHER M10X20	3

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 58 - SEAT PLATE

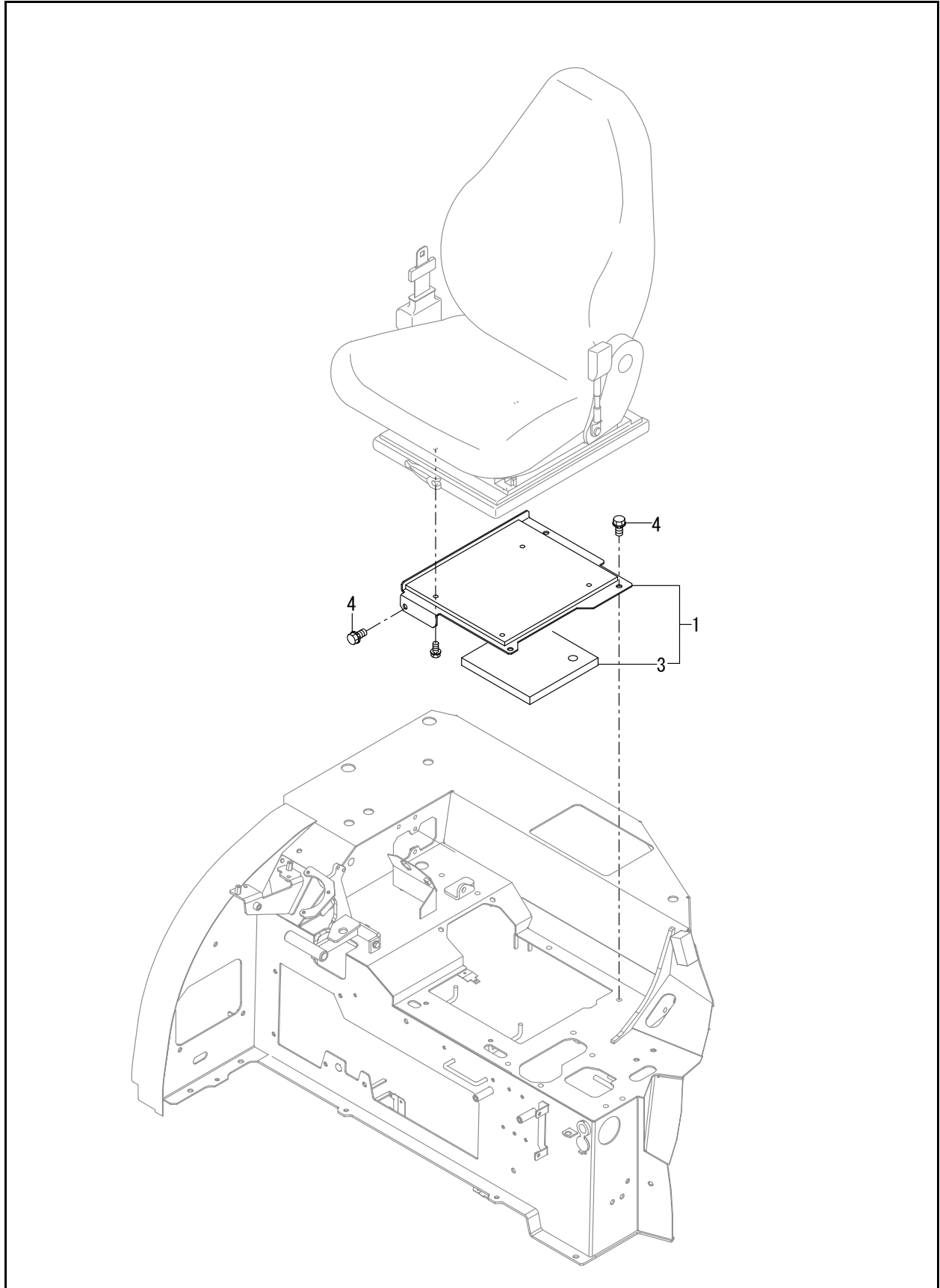
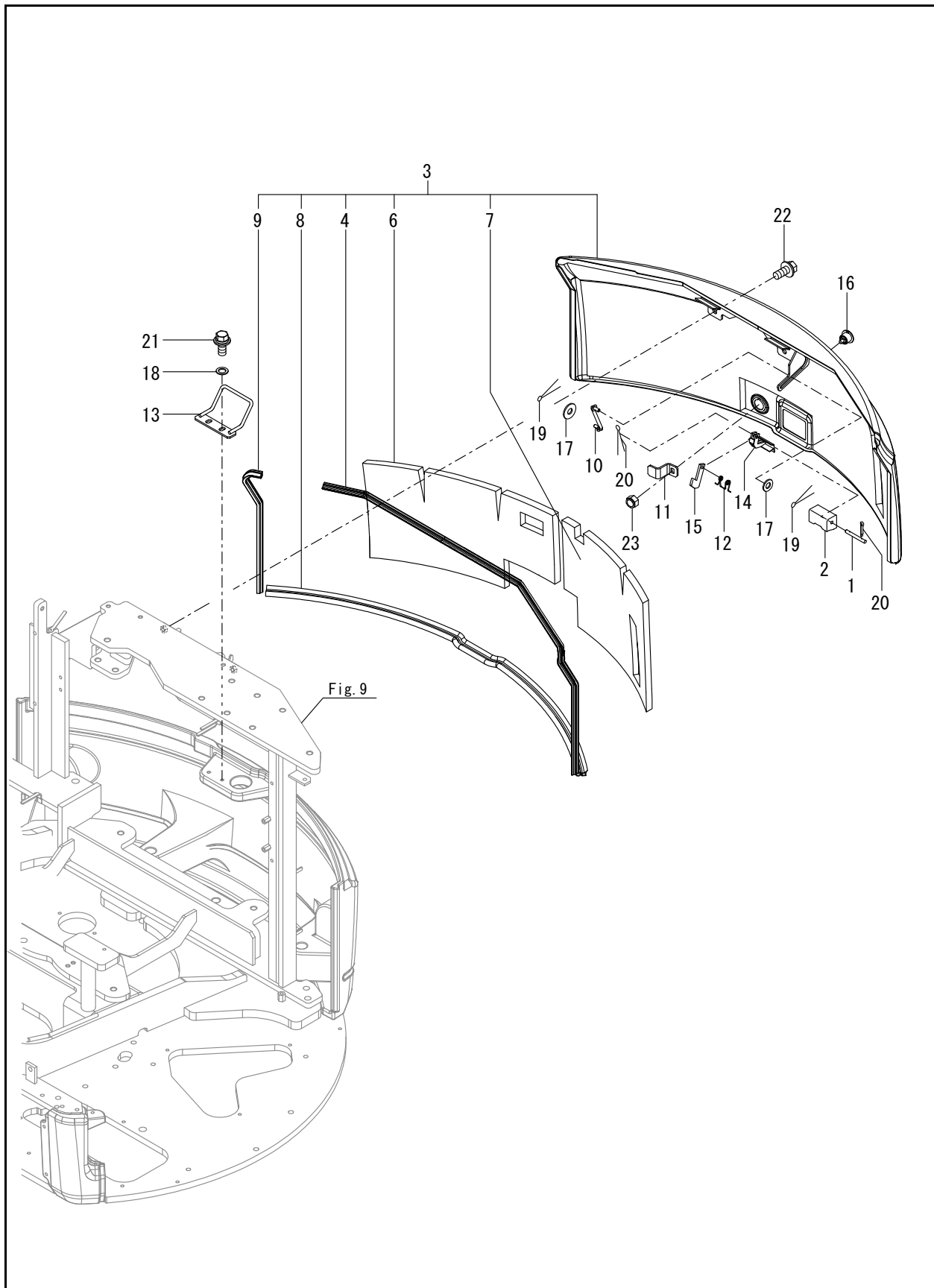


FIG. 58 - SEAT PLATE

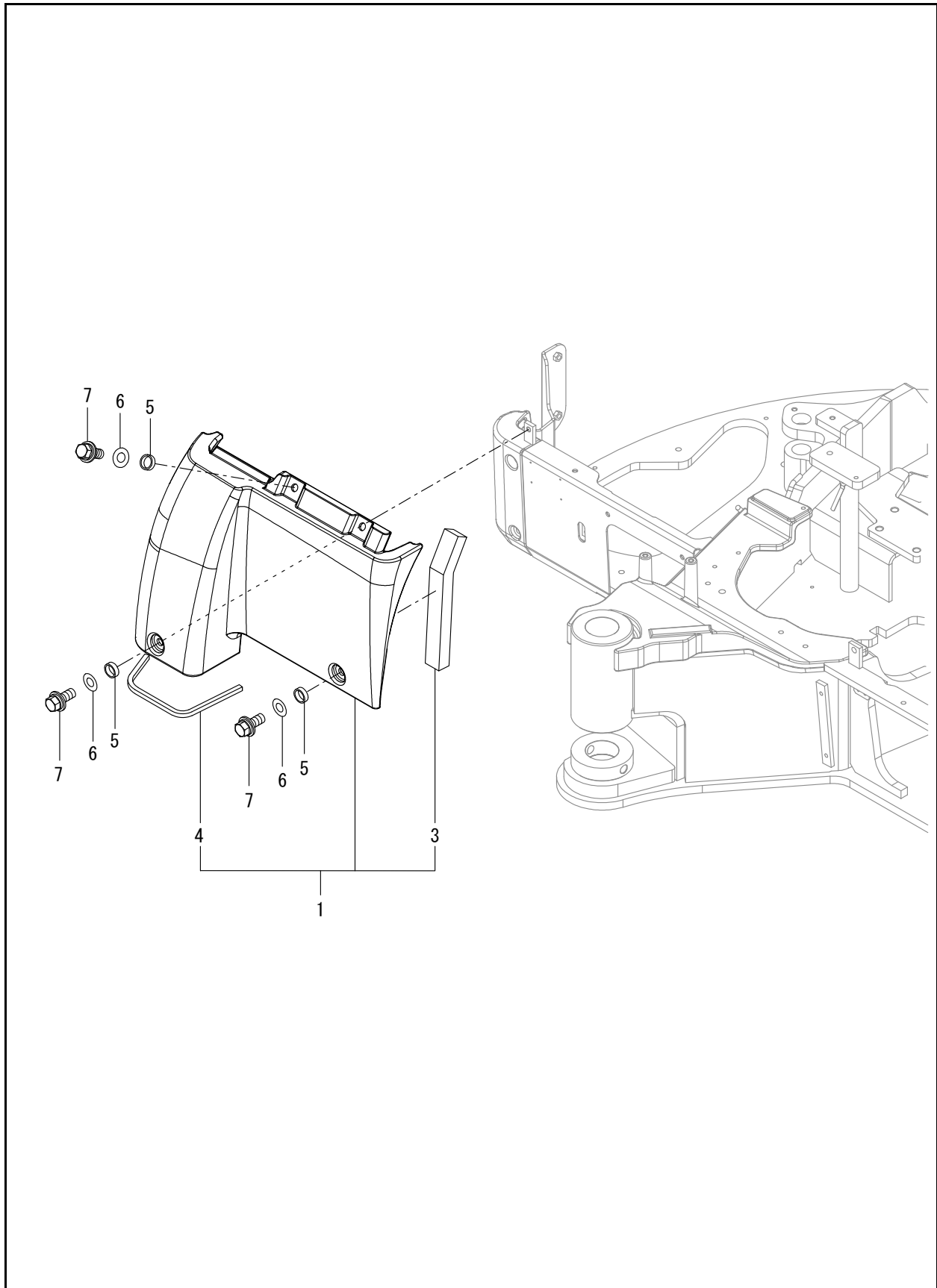
Ref.	No.	Part No.	Description	Qty.
	1	50283337	PLATE ASSY,SEAT GRM	1
	3	50283338	EV D,SEAT MOUNT	1
	4	50282515	BOLT W/WASHER M10X20	4

FIG. 59 - BONNET (REAR)

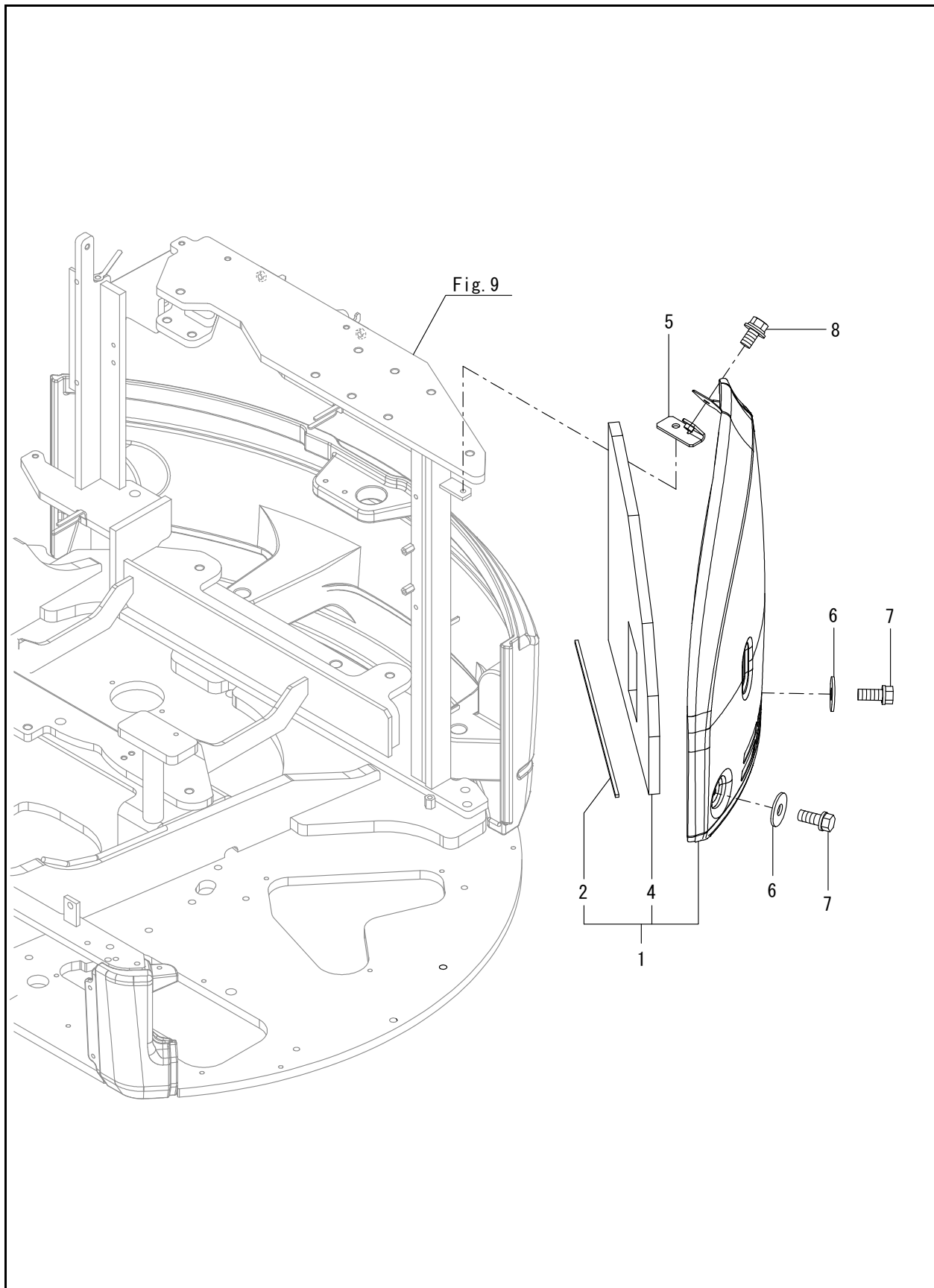


Ref. No.	Part No.	Description	Qty.
1	50281141	SHAFT	1
2	50281142	COVER,BONNET LOCK	1
3	50286367	COVER ASSY (use with labels 24A, 24B, 24C)	1
4	50282887	SEAL	1
6	50283610	EV,BONNET A 1	1
7	50283611	EV,BONNET A 2	1
8	50283612	SEAL,RUBBER 1280	1
9	50283618	SEAL,RUBBER 430	1
10	50281051	ROD,STOPPER	1
11	50281143	PLATE,ROCK	1
12	50281351	SPRING, CATCH	1
13	50283966	CATCH ASSY,LOCK	1
14	50282713	LEVER, LOCK	1
15	50280794	CATCHER	1
16	50280889	KEY ASSY, CYLINDER	1
17	50282380	WASHER 8, POLISHED	2
18	50282387	WASHER 10	2
19	50282418	COTTER PIN 2.0X20	2
20	50282418	COTTER PIN 2.0X20	2
21	50282516	BOLT W/WASHER M10X25	2
22	50282539	BOLT 10X25 W/PLW+SPW	2
23	50282576	U-NUT M10	1
24A	50281425	LABEL, ENG ROOM (see Page 4, Page 6)	1
24B	50281026	LABEL,SWING AREA US (see Page 4, Page 6)	1
24C	50281028	LABEL, ENG,COVER US (see Page 4, Page 6)	1

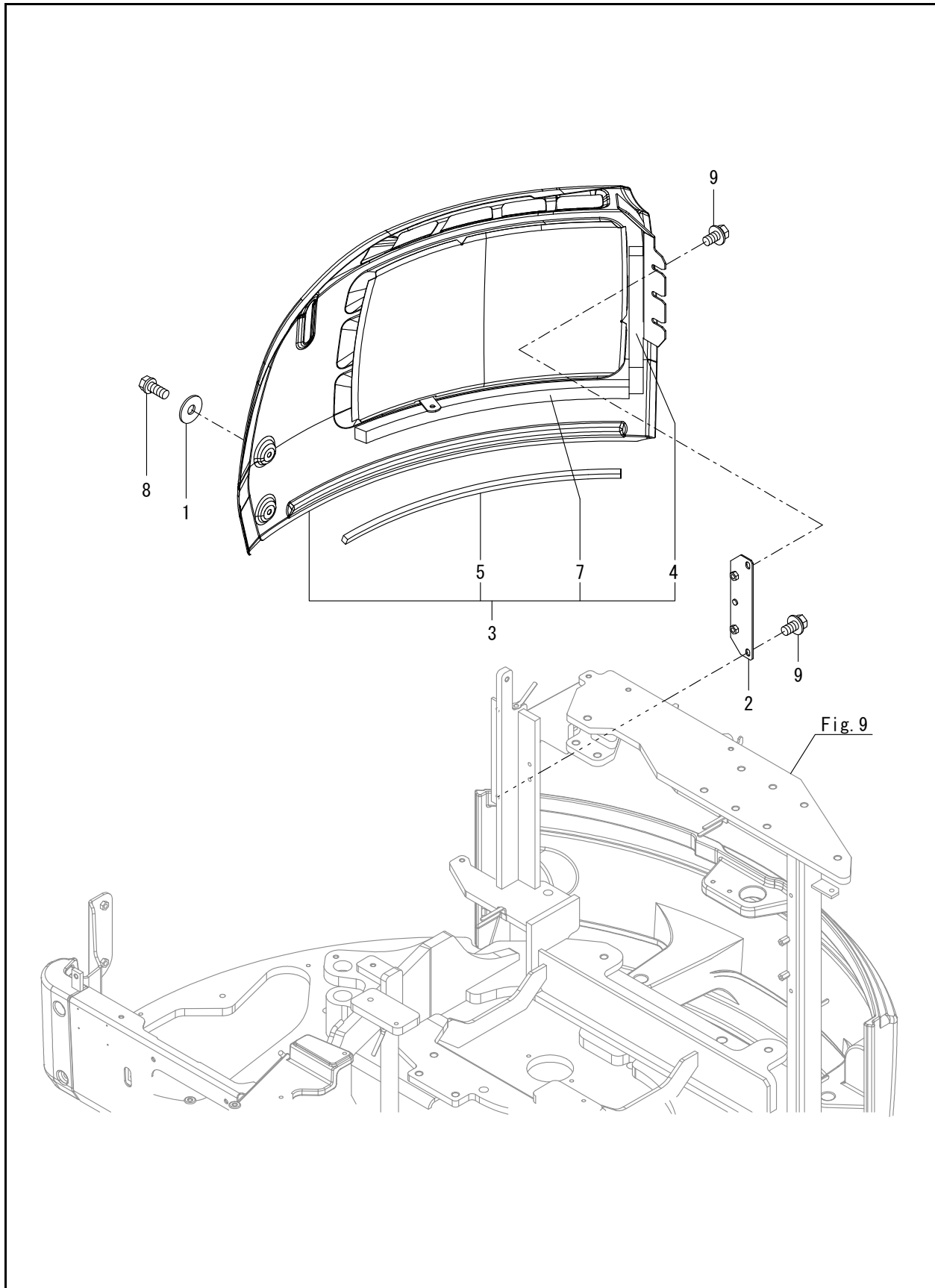
Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 61 - BONNET (FRONT)



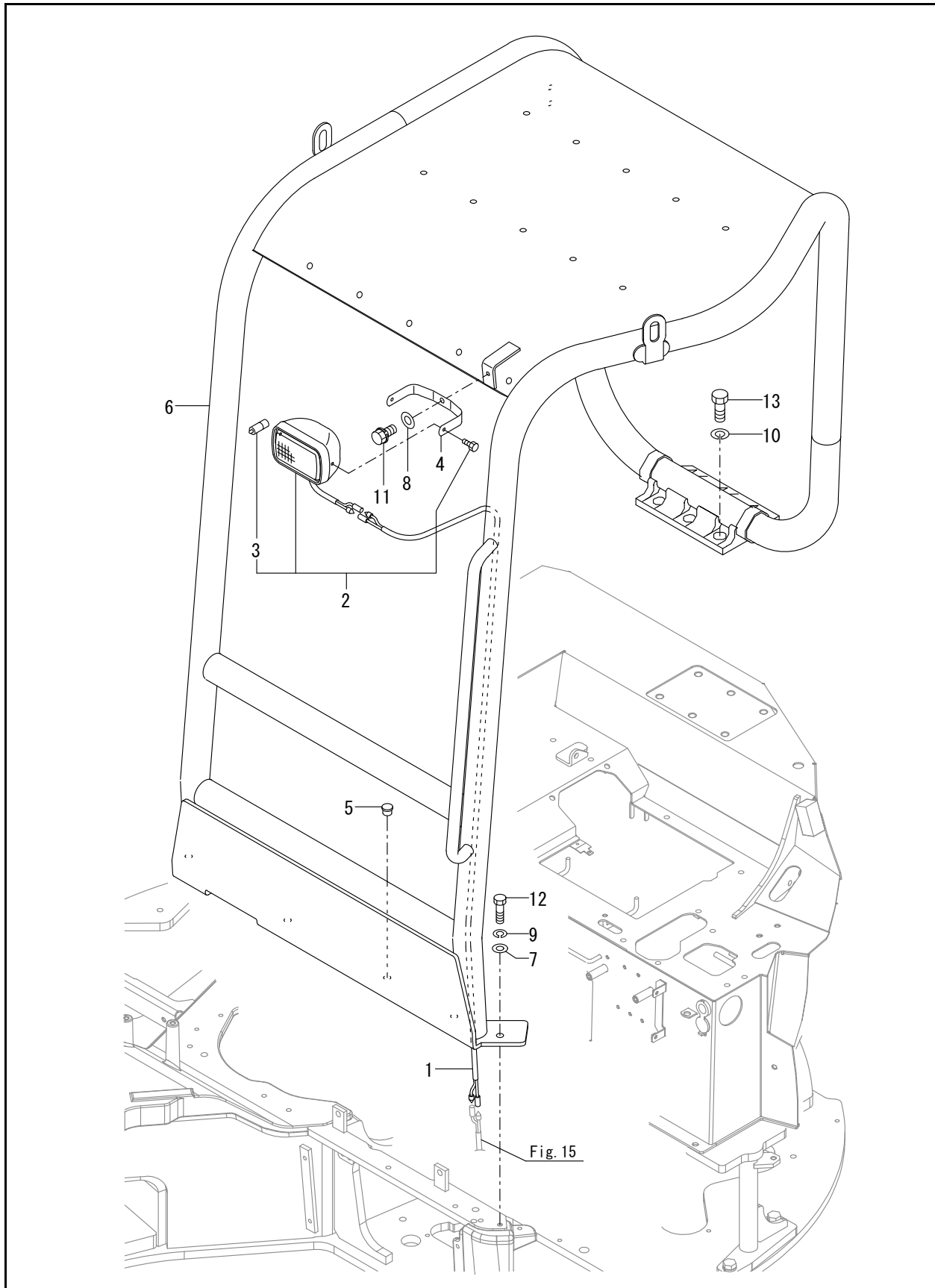
Ref.	No.	Part No.	Description	Qty.
	1	50283613	BONNET	1
	3	50286518	SEAL	1
	4	50286519	TRIM	1
	5	50283614	COLOR 13X16X5	4
	6	50282387	WASHER 10	4
	7	50282516	BOLT W/WASHER M10X25	4



Ref.	No.	Part No.	Description	Qty.
	1	50286289	COVER ASSY (use with label 9A)	1
	2	50283083	SEAL	1
	4	50283616	EV,BONNET L	1
	5	50283617	STAY,A BONNET L ASSY	1
	6	50282387	WASHER 10	2
	7	50282516	BOLT W/WASHER M10X25	2
	8	50282539	BOLT 10X25 W/PLW+SPW	2
	9A	50281024	LABEL, BATTERY US (see Page 4, Page 6)	1



Ref.	No.	Part No.	Description	Qty.
	1	50282969	WASHER	2
	2	50283608	BRACKET ASSY,BR	1
	3	50286291	COVER ASSY RT	1
	4	50283528	SEAL,WEIGHT	1
	5	50283250	EDGE RUBBER, 980	1
	7	50283621	SEAL,BONNET R	1
	8	50282516	BOLT W/WASHER M10X25	2
	9	50282538	BOLT M10X 20	4



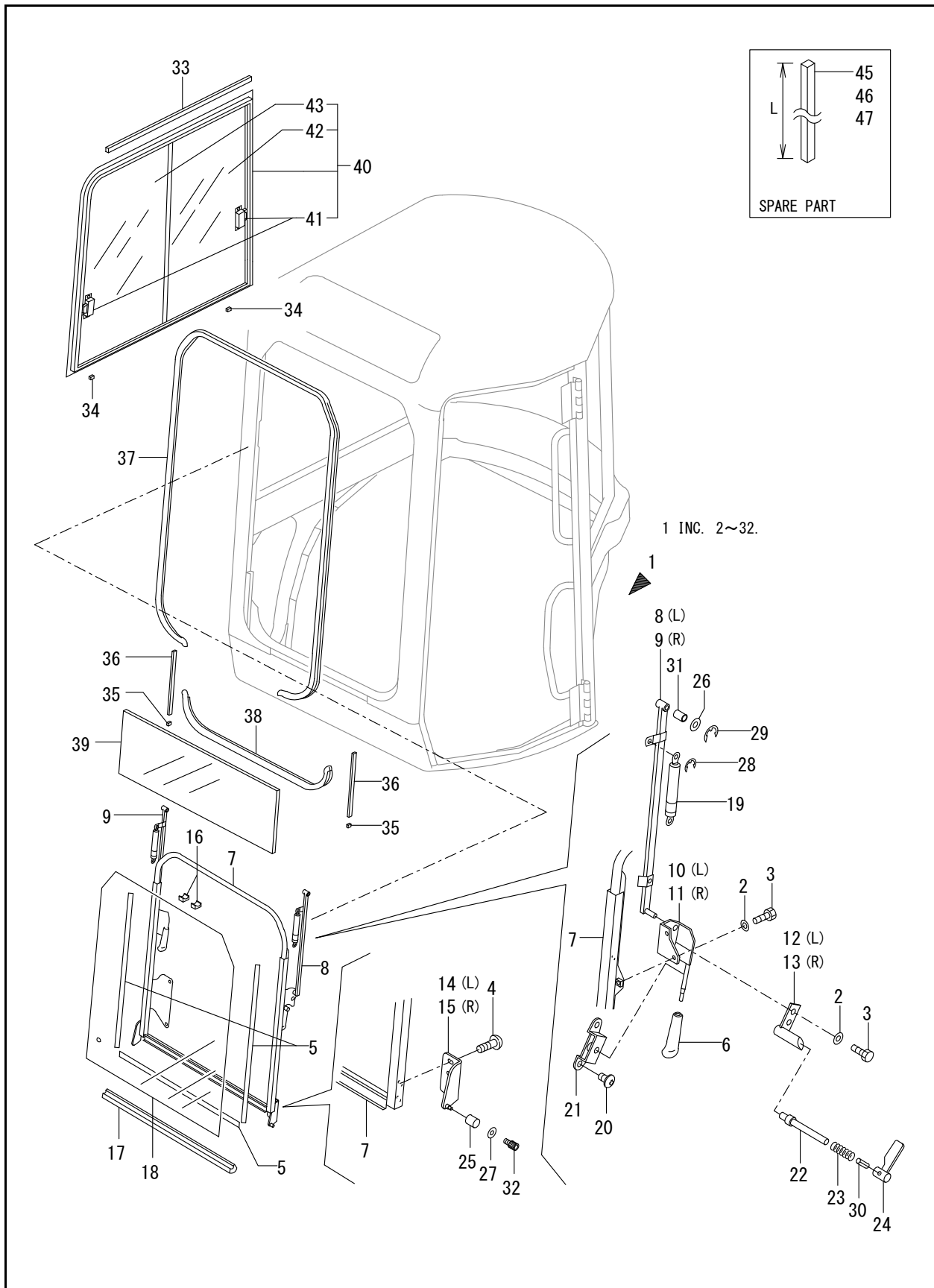
Ref. No.	Part No.	Description	Qty.
1	50282956	HARNESS,CANOPY LAMP	1
2	50283431	LIGHT ASSY	1
3	50283432	VALVE 12V55W	1
4	50286197	LAMP STAY	1
5	50283532	ANCHOR CLIP	1
6	50283229	CANOPY ASSY, ROPS (use with labels 14A, 14B, 14C, 14D, 14E, 14F)	1
7	50282756	WASHER	4
8	138111	WASHER/POLISHED	1
9	425-34902	SPRING WASHER 12	4
10	50282396	SPRING WASHER 16	6
11	50282515	BOLT W/WASHER M10X20	1
12	50284109	BOLT 10.9 M12 X 4	4
13	50282552	BOLT 10.9 16X40	6
14A	50283361	LABEL, LIFT Q US (see Page 4)	1
14B	50281020	LABEL,SLOPE US (see Page 4)	1
14C	50281022	LABEL, TRANSPORT US (see Page 4)	1
14D	50281025	LABEL, NEUTRAL US (see Page 4)	1
14E	50281031	LABEL, ROPS US (see Page 4)	1
14F	50281032	LABEL, SEAT BELT US (see Page 4)	1

FIG. 68 - CABIN (BODY)



Ref. No.	Part No.	Description	Qty.
1	50282848	ASHTRAY	1
2	50282971	SPACER, CABIN	1
3	50282789	RUBBER, SEAL B	1
4	50283622	CABIN ASSY	1
5	50284020	KNOB CLUTCH(RED)	1
6	50281318	BOLT 8X 16	6
7	50282924	CHANNEL	2
8	50282925	CAP;CHANNEL	2
9	50282926	PLATE ASSY LOW GLASS	2
10	50282927	HOLDER GLASS UP	2
11	50282928	SCREW(TORX)	4
12	50282929	SCREW(TORX)	2
13	50282930	CLIP, TREE	4
14	50283004	GLASS RUN	1
15	50283012	SEAL A	1
16	50283013	SEAL B	1
17	50283014	SEAL	1
18	50283624	FRAME ASSY, CABIN (use with labels 32A, 32B)	1
19	50283015	HINGE ASSY, DOOR	2
20	50282776	LOCK ASSY	1
21	50282801	RUBBER	1
22	50283038	COVER	1
23	50283039	LEVER	1
24	50283043	SEAL	1
25	50282377	WASHER 10	1
26	50282378	WASHER 12	2
27	50284052	CIRCLIP E-10	1
28	50284092	BUSHING 12X20	1
29	425-35206	NUT M8 W/WASHER	4
30	50282597	NUT 10	2
31	50284061	SCREW 4X10	3
32A	50281031	LABEL, ROPS US (see Page 6)	1
32B	50281032	LABEL, SEAT BELT US (see Page 6)	1

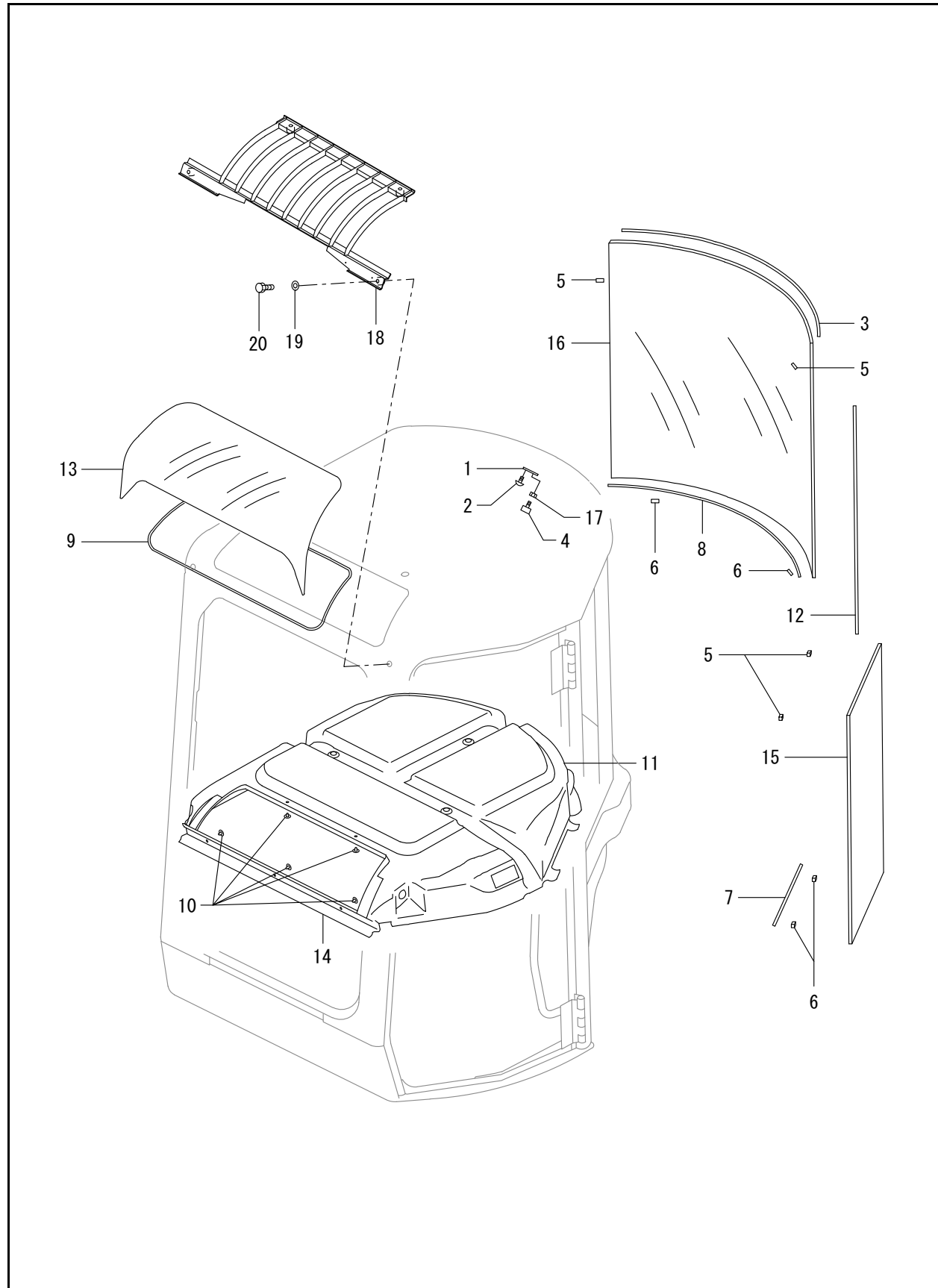
FIG. 69 - CABIN (GLASS)



Ref. No.	Part No.	Description	Qty.
1	50283072	SASH,FRONT UPPER	1
2	50282973	HD WASHER	8
3	50282974	BOLT 8X16	8
4	50282976	SCREW TORX	4
5	50282979	SEAL	3
6	50282923	KNOB	2
7	50282993	FRAME ASSY, FRONT	1
8	50282994	LINK	1
9	50282995	LINK	1
10	50282996	HANDLE L	1
11	50282997	HANDLE R	1
12	50282998	BRACKET	1
13	50282999	BRACKET	1
14	50283001	ROLLER SHAFT L	1
15	50283002	ROLLER SHAFT R	1
16	50283005	RUBBER	2
17	50283007	RUBBER	1
18	50283009	GLASS UP(F/W	1
19	50283011	SPRING	2
20	50283218	SCREW-TORX	4
21	50283219	HOLDER ASSY,F/W	2
22	50283220	LATCH PIN	2
23	50283221	SPRING	2
24	50283222	LEVER ASSY,F/W	2
25	50282902	ROLLER	2
26	50282378	WASHER 12	4
27	50282379	WASHER 6, POLISHED	2
28	425-34970	CIRCLIP E-6	4
29	50284051	CIRCLIP E- 8	4
30	50284054	SPRING PIN 3X12	2
31	50284092	BUSHING 12X20	4
32	50284132	BOLT, M6 X 10	2
33	50282977	SEAL	1
34	50282932	SPACER	2
35	50282933	STOPPER RUBBER	2
36	50283003	GLASS RUN 270	2
37	50283006	RUBBER	1
38	50283008	RUBBER	1
39	50283010	GLASS LOW(F/W	1

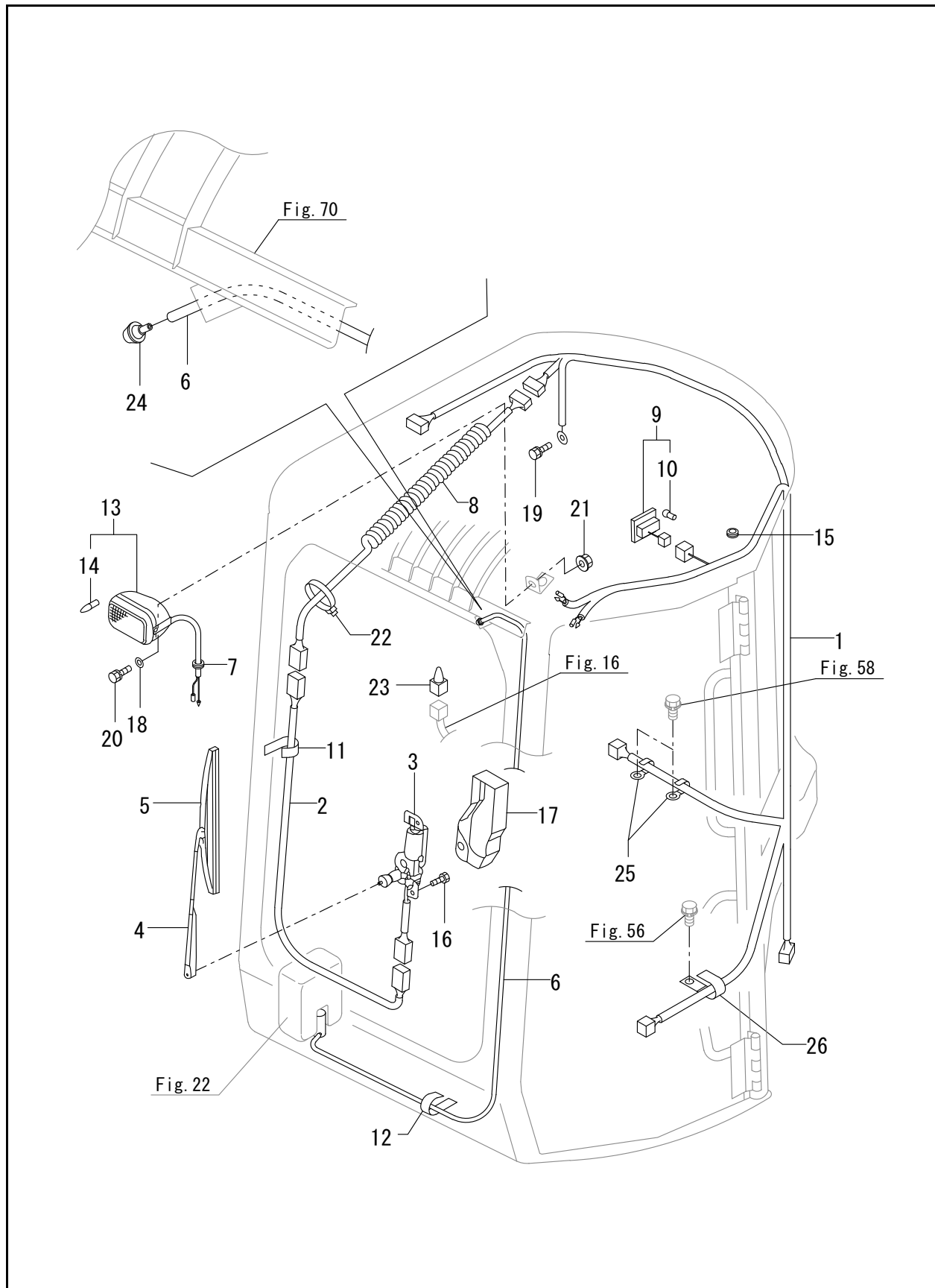
Ref. No.	Part No.	Description	Qty.
40	50283027	SASH ASSY (W/GLASS)	1
41	50282934	LOCK ASSY, SASH	2
42	50283028	SASH GLASS, REAR (use with labels 48A, 48B, 48C, 48D)	1
43	50283029	SASH GLASS, FRONT	1
45	50283245	DAM SEAL 1000MM	1
46	50283246	DAM SEAL 2000MM	1
47	50283247	DAM SEAL 3000MM	1
48A	50281036	LABEL, WINDOW US (see Page 6)	1
48B	50281174	LABEL, PIN US (see Page 6)	1
48C	50281020	LABEL,SLOPE US (see Page 6)	1
48D	50281025	LABEL, NEUTRAL US (see Page 6)	1

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FIG. 70 - CABIN (ACCESSORY)



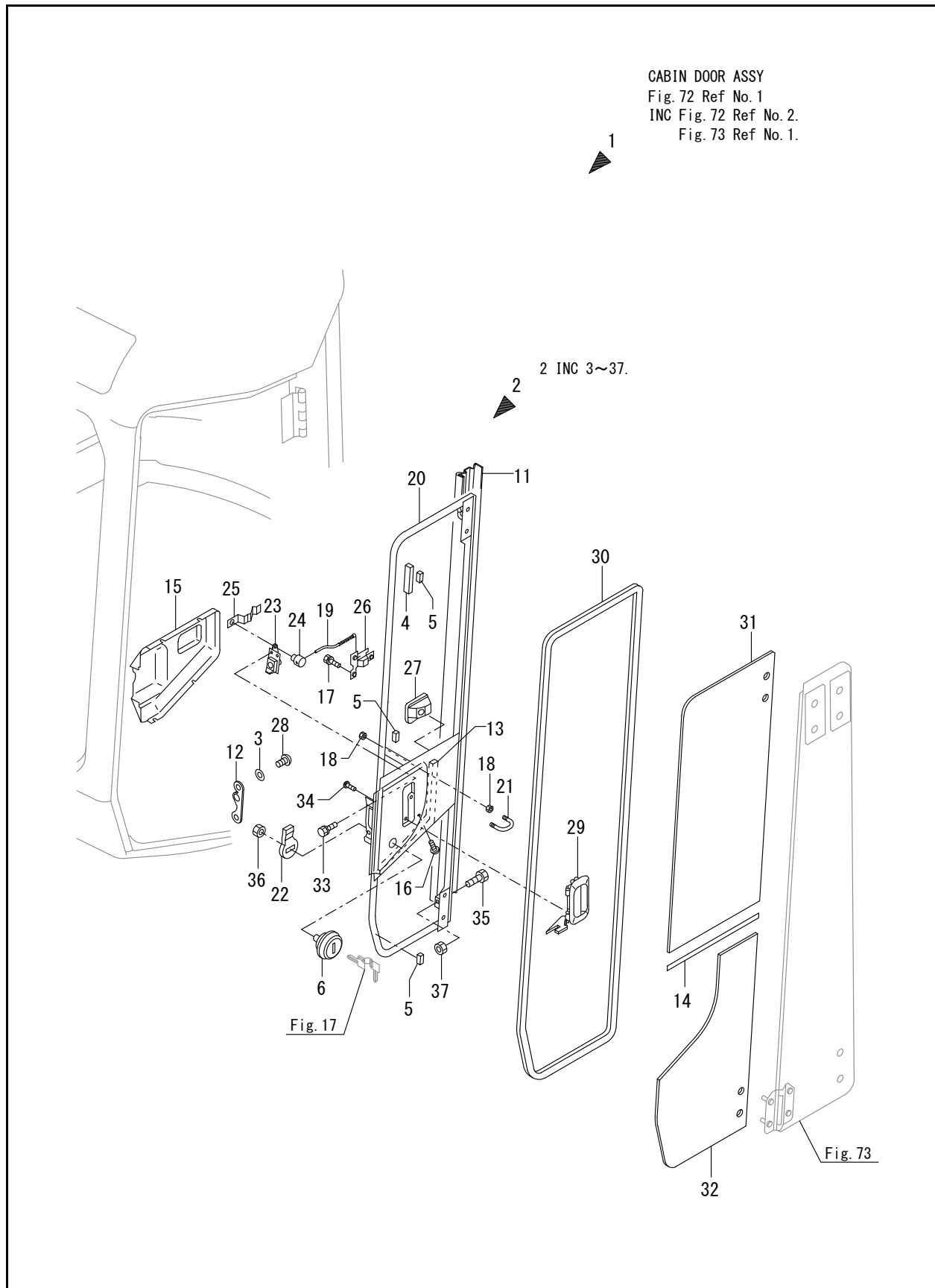
Ref. No.	Part No.	Description	Qty.
1	50282975	PLATE	1
2	50282976	SCREW TORX	1
3	50282978	MOLD	1
4	50282980	RUBBER	1
5	50282982	SPACER	4
6	50282983	SPACER	4
7	50282984	SEAL	1
8	50282985	SEAL	1
9	50282986	SEAL	1
10	50282931	FASTERNER	15
11	50283016	INNER ROOF	1
12	50283020	SEAL	1
13	50283023	SUN ROOF	1
14	50283024	INNER FRONT	1
15	50283025	GLASS L	1
16	50283026	GLASS REAR (use with label 21A)	1
17	50282597	NUT 10	1
18	50283235	GUARD, FOPS	1
19	138111	WASHER/POLISHED	4
20	50284107	BOLT M10 X 35	4
21A	50283361	LABEL, LIFT Q US (see Page 6)	1

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FIG. 71 - CABIN (ELECTRIC PART)

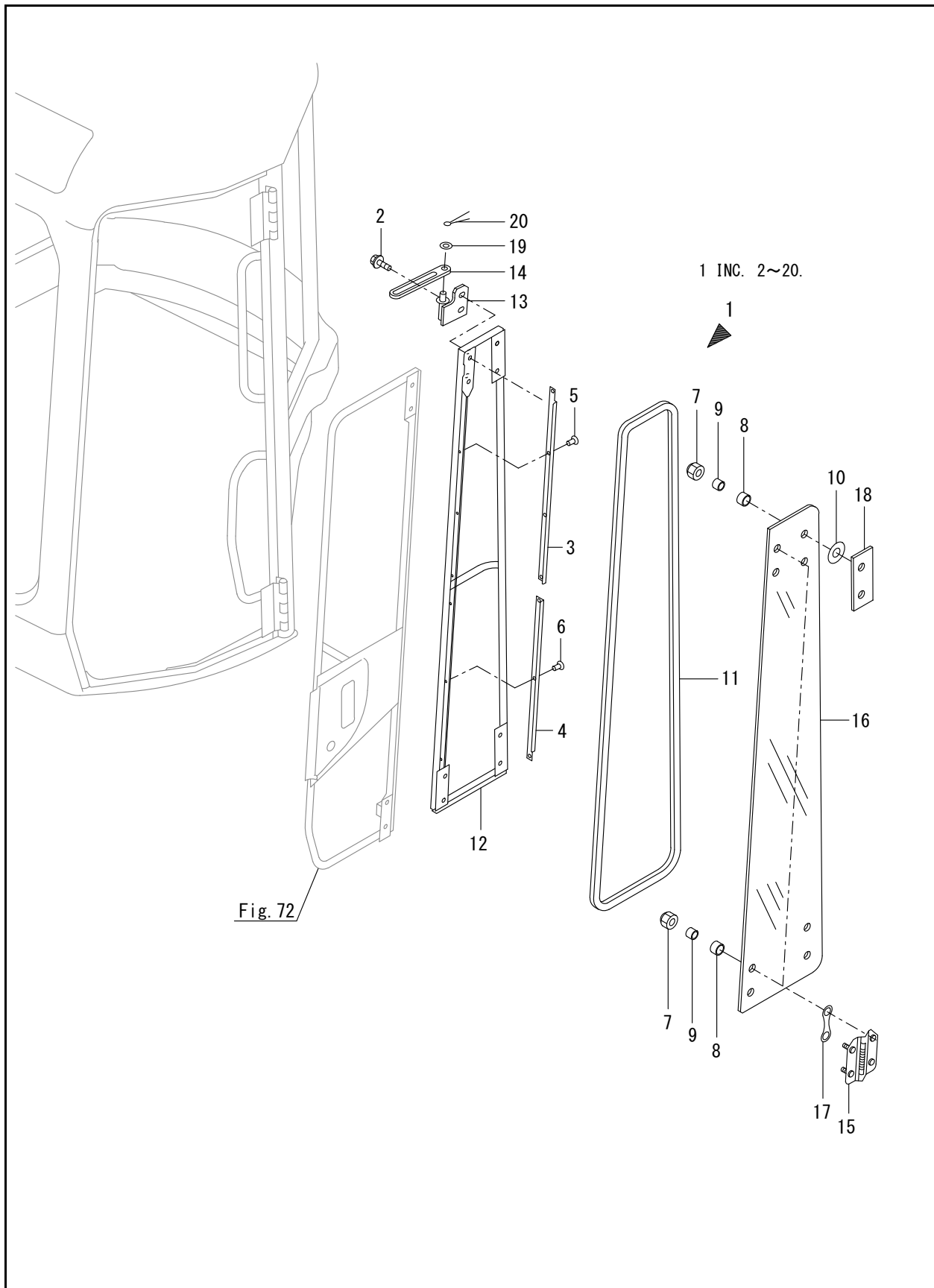


Ref.	No.	Part No.	Description	Qty.
	1	50282957	HARNESS A,WIRE(CABIN	1
	2	50282958	WIRE HARNESS B	1
	3	50282959	WIPER MOTOR	1
	4	50282960	WIPER ARM	1
	5	50282961	WIPER BLADE	1
	6	50283233	HOSE, WASHER	1
	7	50282935	GROMMET	2
	8	50282936	HARNESS-CURL	1
	9	50282937	ROOM LAMP	1
	10	50282939	BULB	1
	11	50282938	CLAMP HARNESS	3
	12	50282938	CLAMP HARNESS	3
	13	50282940	WORKING LAMP	1
	14	50281132	BULB,12V 55W	1
	15	50283030	GROMMET	1
	16	50282947	SET SCREW	2
	17	50282948	COVER WIPER-MOTOR	1
	18	50282380	WASHER 8, POLISHED	1
	19	50282506	BOLT W/WASHER M8X16	1
	20	50282562	BOLT M 8X 20 PLATED	1
	21	425-35206	NUT M8 W/WASHER	1
	22	50284153	BAND 146	1
	23	50282847	HARNESS	1
	24	50284005	WASHER,NOZZLE	1
	25	50280799	CLAMP 10X70	2
	26	50284008	CLAMP A,SM.&DYN.CORD	2

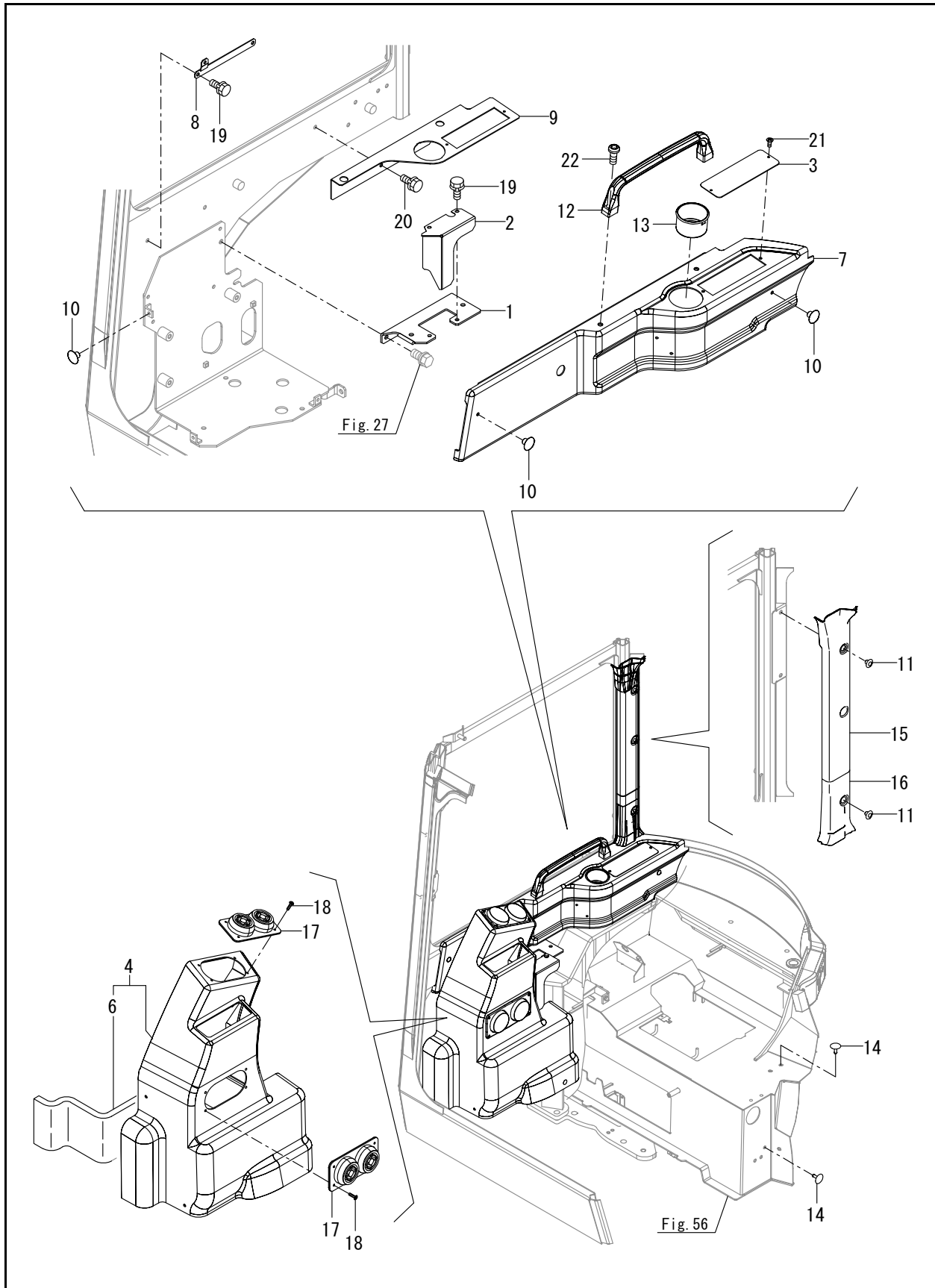
FIG. 72 - CABIN DOOR (FRONT)



Ref.	No.	Part No.	Description	Qty.
	1	50283073	CABIN,DOOR	1
	2	50283074	DOOR ASSY, FRONT	1
	3	50282973	HD WASHER	2
	4	50282981	STOPPER	1
	5	50282982	SPACER	3
	6	50280889	KEY ASSY, CYLINDER	1
	11	50282988	COVER, RUBBER	1
	12	50282992	STRIKER	1
	13	50283000	BRACE	1
	14	50283021	SEAL	1
	15	50282942	COVER, LATCH	1
	16	50283022	SCREW,6X16	4
	17	50282946	SCREW	3
	18	50282899	NUT	4
	19	50282900	ROD	1
	20	50283031	FRAME ASSY, DOOR	1
	21	50282901	DOOR HOOK	1
	22	50280865	LOCK PLATE	1
	23	50282777	LOCK ASSY	1
	24	50282778	PIN	1
	25	50282779	SPRING	1
	26	50282780	HANDLE ASSY	1
	27	50282781	COVER	1
	28	50282949	SCREW	2
	29	50282782	HANDLE,OUTER	1
	30	50283032	RUBBER A	1
	31	50283040	GLASS FU	1
	32	50283041	GLASS FU	1
	33	50282502	BOLT M 6X 16	3
	34	50282545	SCREW, M6X12	2
	35	50284118	BOLT M10 X 30 PLATED	1
	36	50282597	NUT 10	1
	37	50282597	NUT 10	1



Ref.	No.	Part No.	Description	Qty.
	1	50283075	DOOR ASSY, REAR	1
	2	50281318	BOLT 8X 16	2
	3	50282989	UPPER PLATE, DOOR REAR	1
	4	50282990	LOWER PLATE, DOOR REAR	1
	5	50282991	TORX SCREW 6X16	4
	6	50282991	TORX SCREW 6X16	3
	7	50282941	NUT	12
	8	50282943	TUBE	12
	9	50282944	PIPE	12
	10	50282945	PACKING	4
	11	50283033	RUBBER, FRAME B ASSY	1
	12	50283034	FRAME ASSY, DOOR	1
	13	50283035	PLATE	1
	14	50283036	GUIDE, STOPPER	1
	15	50283037	HINGE	2
	16	50283042	GLASS R, DOOR	1
	17	50283044	GASKET	8
	18	50283045	COVER, HINGE	2
	19	50282380	WASHER 8, POLISHED	2
	20	50282417	COTTER PIN 2.0X16	2

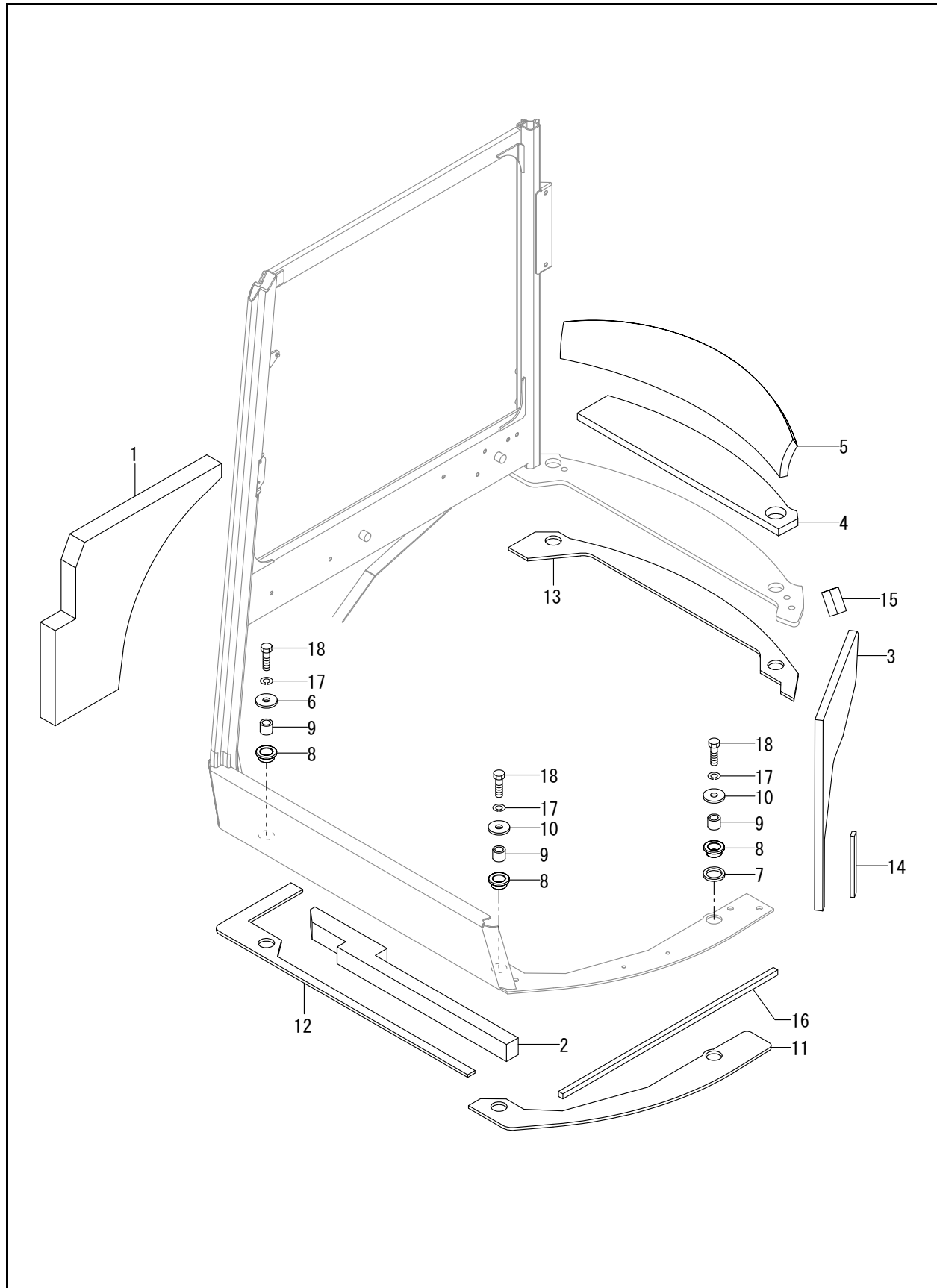


Ref. No.	Part No.	Description	Qty.
1	50283452	BRACKET ASSY	1
2	50283454	COVER,BR	1
3	50283480	COVER, RADIO	1
4	50283545	COVER ASSY,CAB F (use with label 23A)	1
6	50283547	EV,COVER CAB F	1
7	50283546	COVER,CAB S	1
8	50283589	STAY F ASSY,SIDE	1
9	50283590	STAY ASSY, TUBE	1
10	50282362	CLIP	5
11	50282987	CLIP 11	3
12	50282823	GRIP	1
13	50282824	HOLDER	1
14	50282889	CLIP	2
15	50283018	RB PILLAR COVER A	1
16	50283019	COVER B RB PILLER	1
17	50284023	GRILLE,ROUND	2
18	197787	SCREW 5 X 16	8
19	50282506	BOLT W/WASHER M8X16	2
20	50282507	BOLT W/WASHER M8X20	4
21	50284105	SCREW M4 X 20	2
22	50284138	SCREW, M8X20	2
23A	50281022	LABEL, TRANSPORT US (see Page 6)	1

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FIG. 75 - CABIN (FITTING)

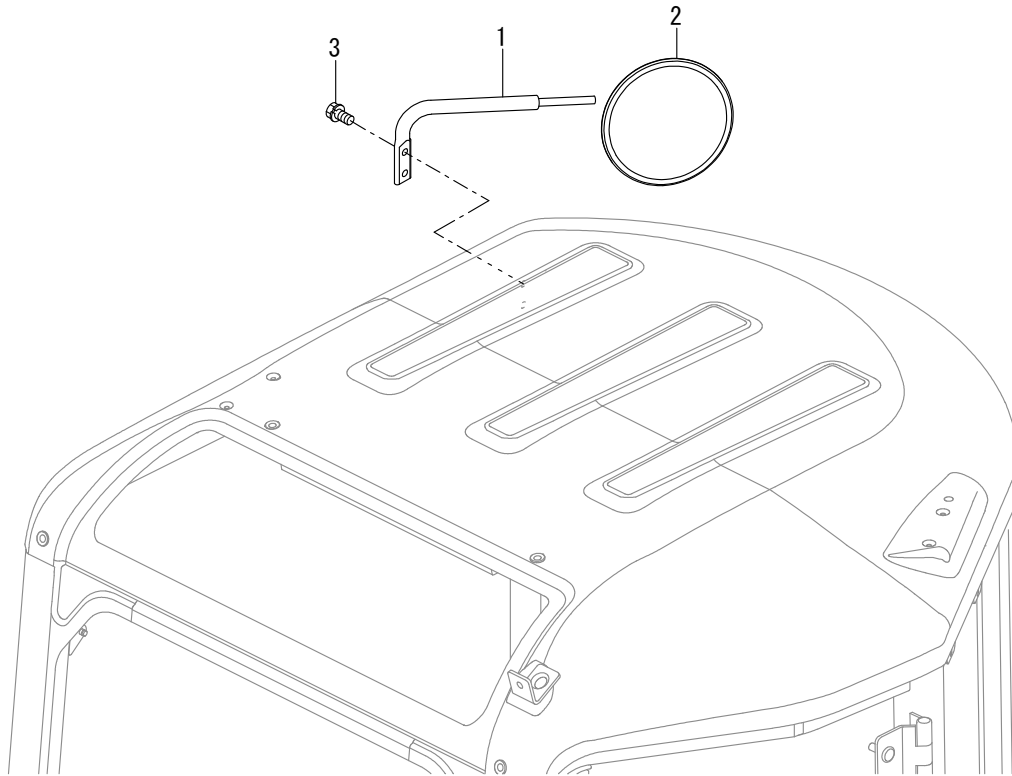
http://truckmanualshub.com/



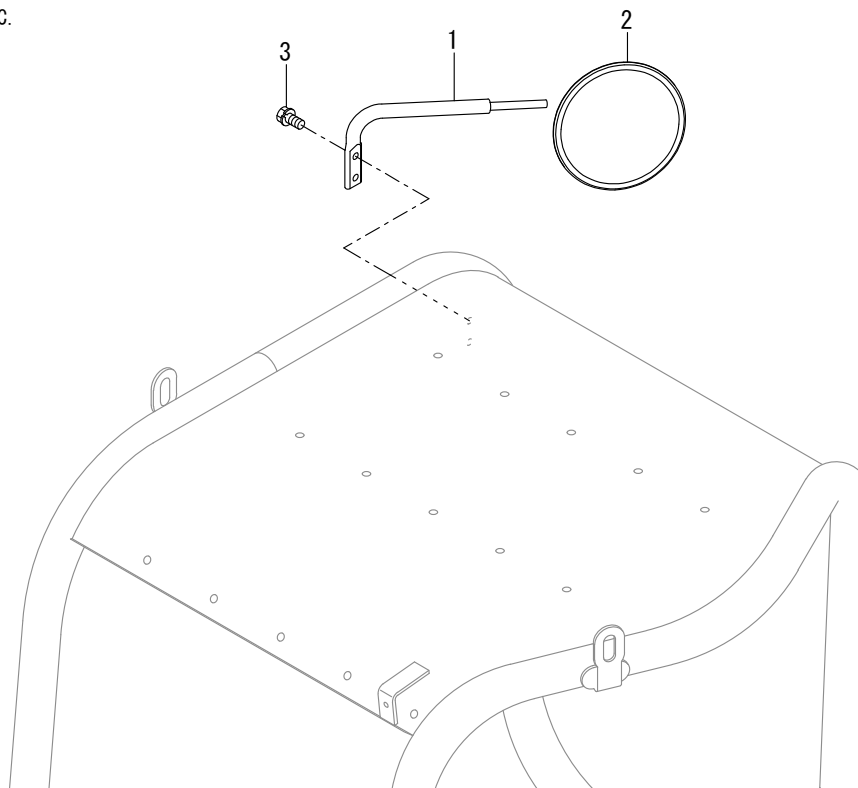
Ref.	No.	Part No.	Description	Qty.
	1	50283548	SEAL,CAB RH	1
	2	50283549	SEAL,CAB F	1
	3	50283625	EV,CABIN C	1
	4	50283626	EV,CABIN A	1
	5	50283627	EV,CABIN B	1
	6	50283628	WASHER60X17X6	1
	7	50283629	WASHER52X38X6	1
	8	50283630	GROMET 30X36X50	5
	9	50283631	COLLER 20X30X26	5
	10	50283632	WASHER52X17X6	4
	11	50283633	PATT A	1
	12	50283634	PATT C	1
	13	50283635	PATT D	1
	14	50283636	SEAL CAB 180	1
	15	50283637	SEAL,CAB 60	1
	16	50283638	SEAL,CAB 730	1
	17	50282396	SPRING WASHER 16	5
	18	50284110	BOLT 16*55	5

FIG. 76 - REARVIEW MIRROR

CABIN SPEC.

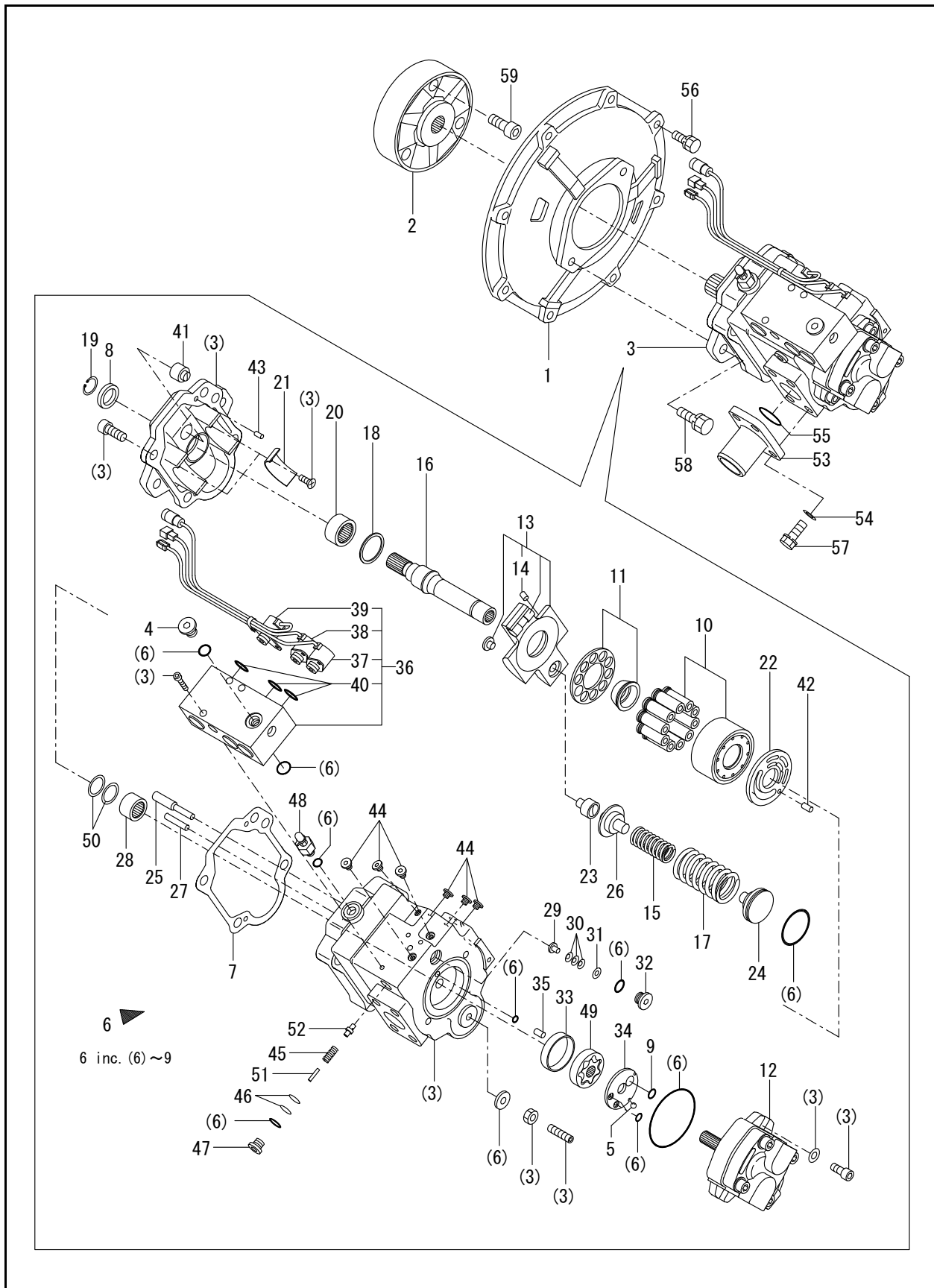


CANOPY SPEC.



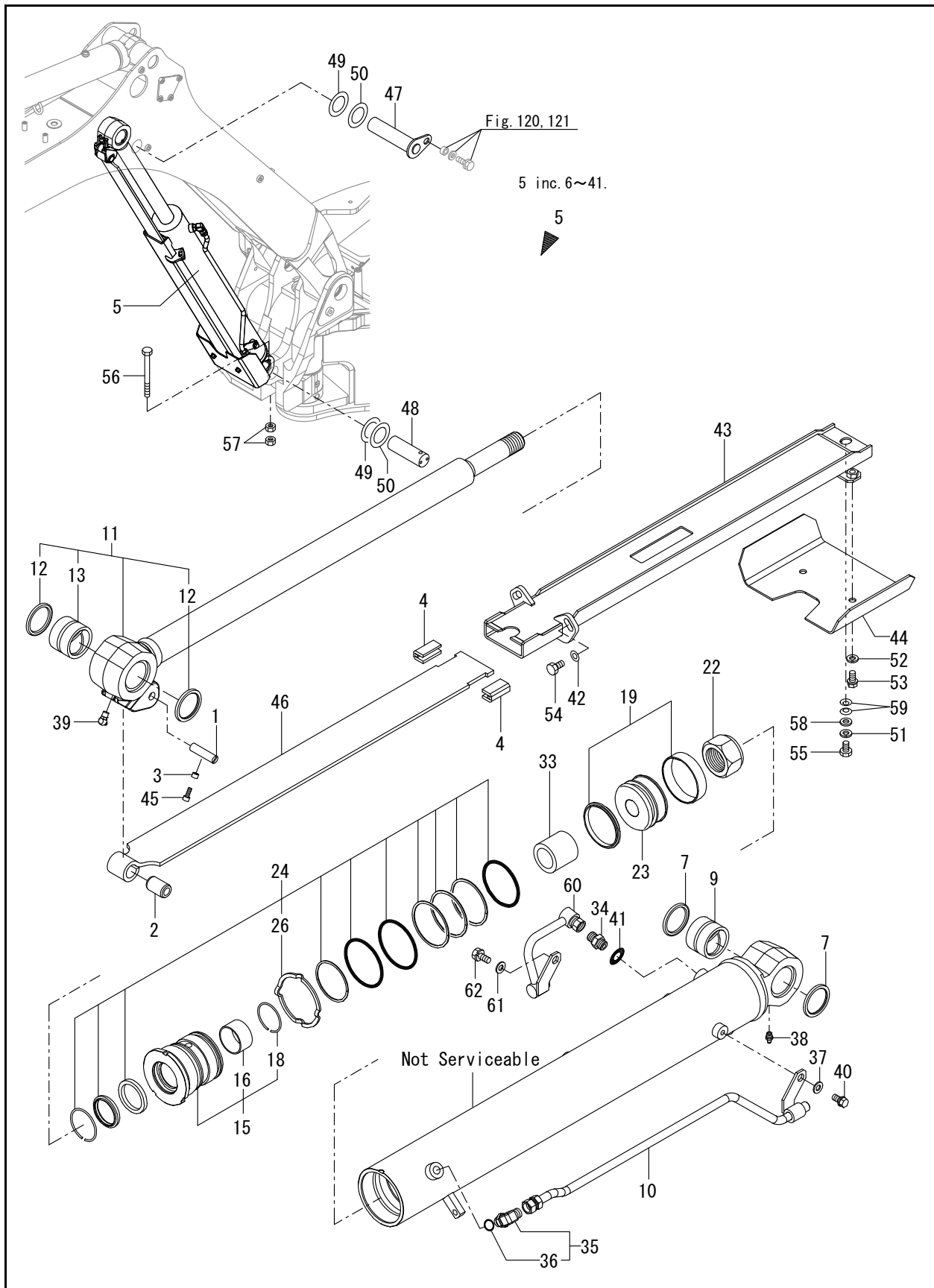
Ref.	No.	Part No.	Description	Qty.
	1	50283322	BRACKET, MIRROR	1
	2	50281414	REARVIEW MIRROR	1
	3	50282516	BOLT W/WASHER M10X25	2

FIG. 77 - HYD. OIL PUMP & JOINT



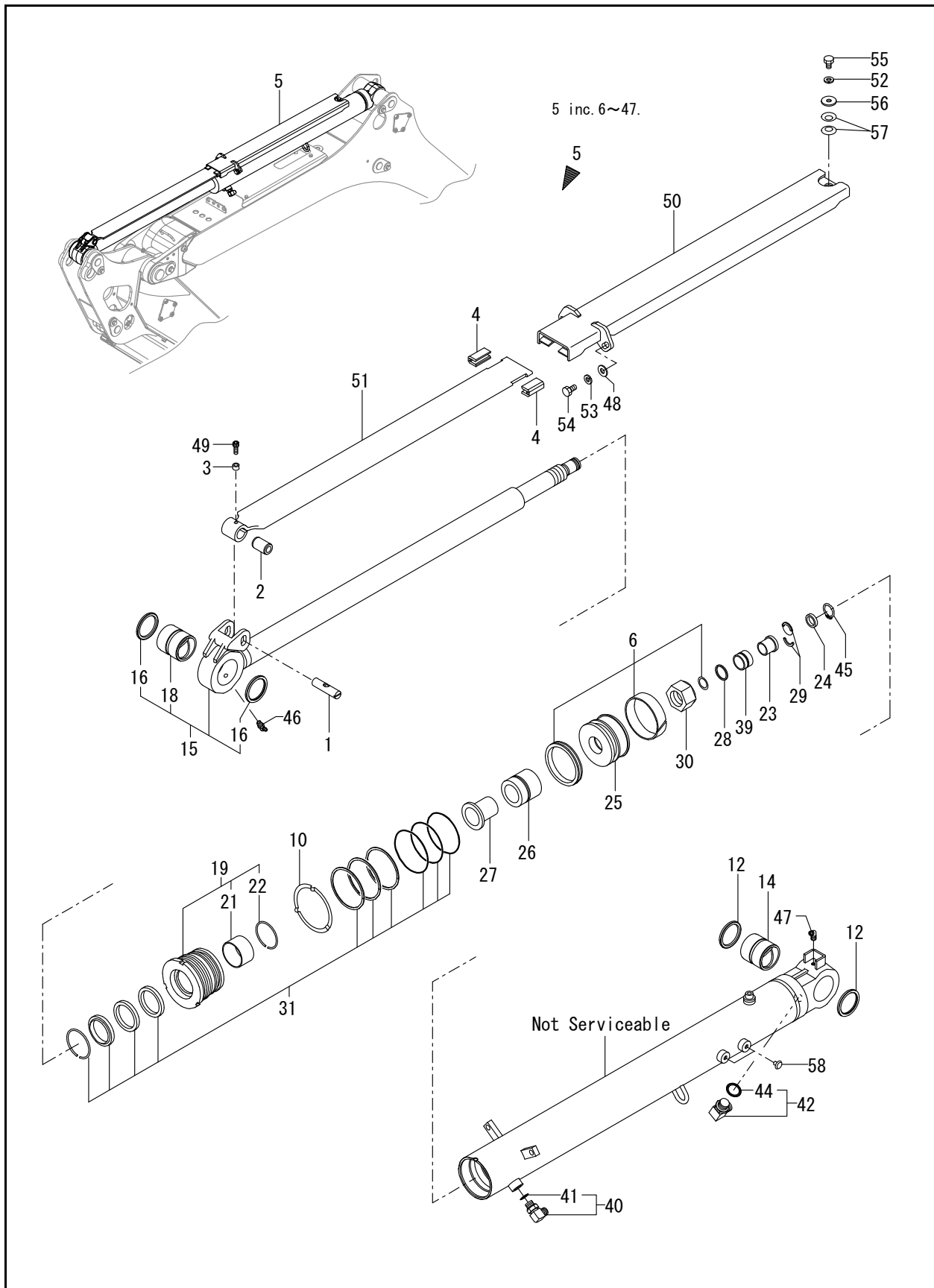
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50282815	COVER, FLYWHEEL	1	48	50282829	BREEDER, AIR	1
2	50282802	COUPLING	1	49	50282830	ROTOR ASSY,TROCHOID	1
3	50283317	PUMP ASSY,HYD OIL	1	50	50282831	THRUST WASHER	2
4	50280836	PLUG	1	51	50282832	PIN	1
5	50282704	BALL	1	52	50282833	POPPET	1
6	50283125	SEAL KIT	1	53	50282806	FLANGE	1
7	50283131	GASKET	1	54	50282378	WASHER 12	4
8	50283133	OIL SEAL	1	55	50284082	O-RING 1A G-45.0	1
9	50283149	O-RING	1	56	50282517	BOLT M10X 30	8
10	50283126	CYLINDER BLOCK KIT	1	57	50282525	BOLT W/WASHER M12X30	4
11	50283127	RETAINER	1	58	50284102	BOLT M12 X 35	2
12	50283211	PUMP, GEAR	1	59	50284137	BOLT M12 X 40	3
13	50283128	PLATE	1				
14	50282849	ORIFICE	1				
15	50283212	SPRING	1				
16	50283129	SHAFT	1				
17	50283213	SPRING	1				
18	50283130	WASHER	1				
19	50283132	RING	1				
20	50283134	BEARING	1				
21	50283135	BUSHING	2				
22	50283137	PLATE, VALVE	1				
23	50283138	HOLDER	1				
24	50283214	SEAT, SPRING	1				
25	50283139	PIN	1				
26	50282825	SHEET,SPRING	1				
27	50283140	PIN	1				
28	50283142	BEARING	1				
29	50283143	STOPPER	1				
30	50283144	SPRING	3				
31	50283145	WASHER	1				
32	50283146	PLUG	1				
33	50283147	BUSHING	1				
34	50283148	PLATE	1				
35	50283150	PIN	1				
36	50283296	VALVE	1				
37	50283176	SOLENOID B	1				
38	50283177	SOLENOID A	1				
39	50283178	SOLENOID C	1				
40	50284087	O-RING 2 19011	3				
41	50283152	STOPPER	1				
42	50282708	PIN	1				
43	50282708	PIN	2				
44	50282919	PLUG	6				
45	50282826	SPRING	1				
46	50282827	SHIM	2				
47	50282828	PLUG	1				

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FIG. 78 - BOOM CYLINDER



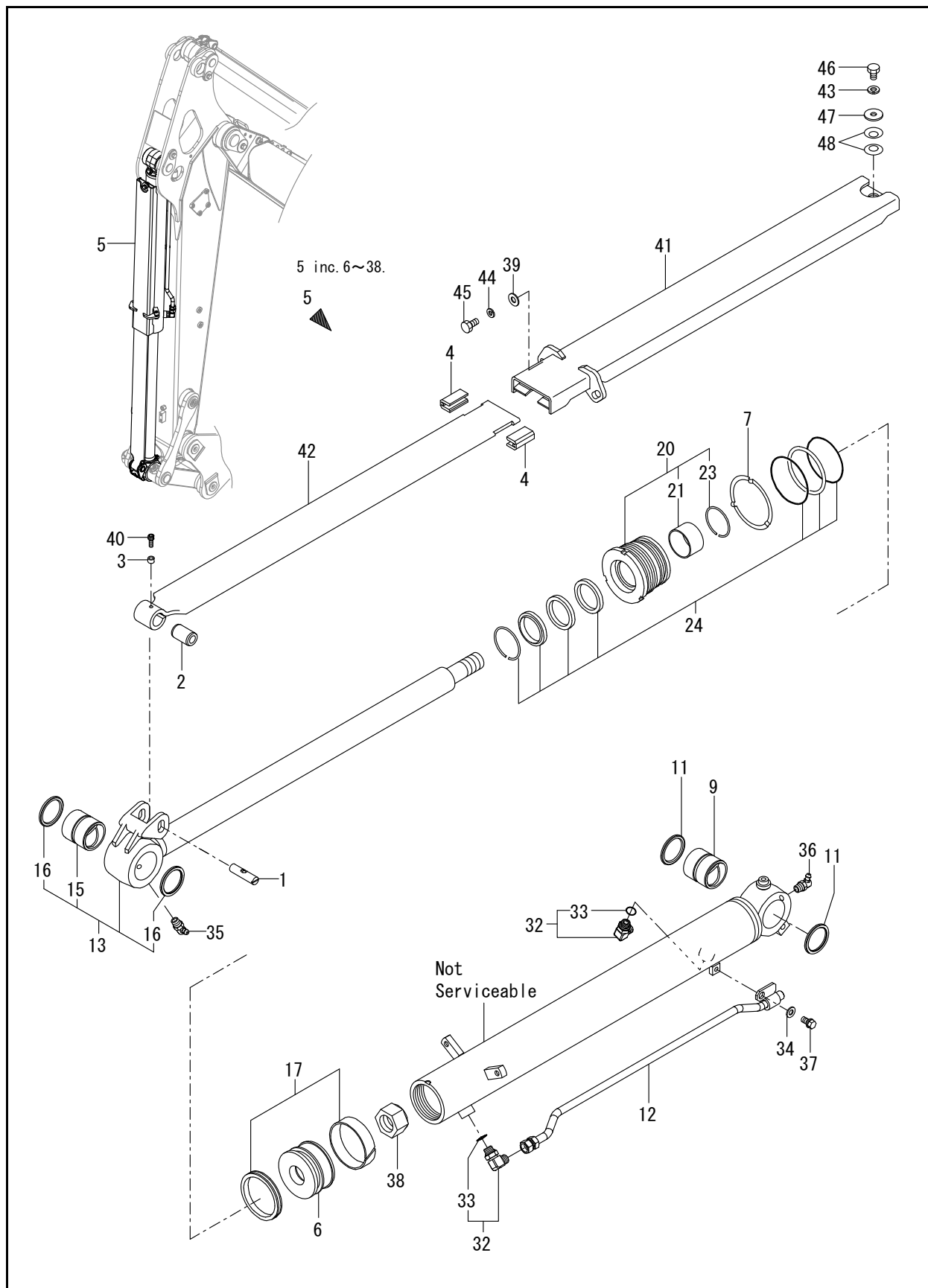
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50283319	SHAFT,14X54	1	54	50284106	BOLT M10 X 25	2
2	50283320	GROMMET	1	55	50284117	BOLT M10 X 16 PLATED	1
3	50283344	SPACER	1	56	50284126	BOLT M12 X 130 PLATED	1
4	50283321	SLIDE GUIDE	2	57	210-32084	NUT, HEX M12 X 1.75	2
5	50283906	CYLINDER ASSY, BOOM	1	58	50282617	WASHER, BRAKE ARM	1
7	50281061	SEAL 50X60X4,DUST	2	59	50282620	SPRING 16	2
9	50283908	BUSH, 50-64.5	1	60	50286293	BOOM PIPE	1
10	50283640	PIPE ASSY,BOOM R	1	61	138111	WASHER/POLISHED	1
11	50283909	ROD ASSY, BOOM	1	62	50282515	BOLT W/WASHER M10X20	1
12	50281061	SEAL 50X60X4,DUST	2				
13	50283119	BUSHING	1				
15	50283910	HEAD ASSY 100 55	1				
16	50282759	BUSHING 55 35, ROD	1				
18	50284150	RING 65, SPRING	1				
19	50283261	SEAL SET, PISTON	1				
22	50282760	U-NUT M39	1				
23	50283911	PISTON,100 39	1				
24	50283912	HEAD SEAL SET,100 55	1				
26	50282761	LOCK WASHER	1				
33	50283913	PLUNGER, CUSHION 62	1				
34	50281350	JOINT	1				
35	50280823	JOINT 90-3/8 ASSY	1				
36	50282471	O-RING 1B P-14.0	1				
37	138111	WASHER/POLISHED	1				
38	50282497	NIPPLE PT1/8,GREASE	1				
39	50282498	NIPPLE B,GREASE	1				
40	50282515	BOLT W/WASHER M10X20	1				
41	50282608	O RING P 14.0 HNBR	1				
42	50283985	COLLOR	2				
43	50283653	GUIDE ASSY	1				
44	50283654	HOSE BOOM COVER	1				
45	50283655	BOLT M16X16	1				
46	50283325	SLIDE PLATE	1				
47	50283899	PIN 50 X 225 CMP	1				
48	50283979	PIN, 50 X142	1				
49	50280899	SHIM 50X90X0.5	2				
50	50280900	SHIM 50X90X1.2	2				
51	50282393	SPRING WASHER 10	1				
52	50282393	SPRING WASHER 10	2				
53	50282515	BOLT W/WASHER M10X20	2				

FIG. 79 - ARM CYLINDER



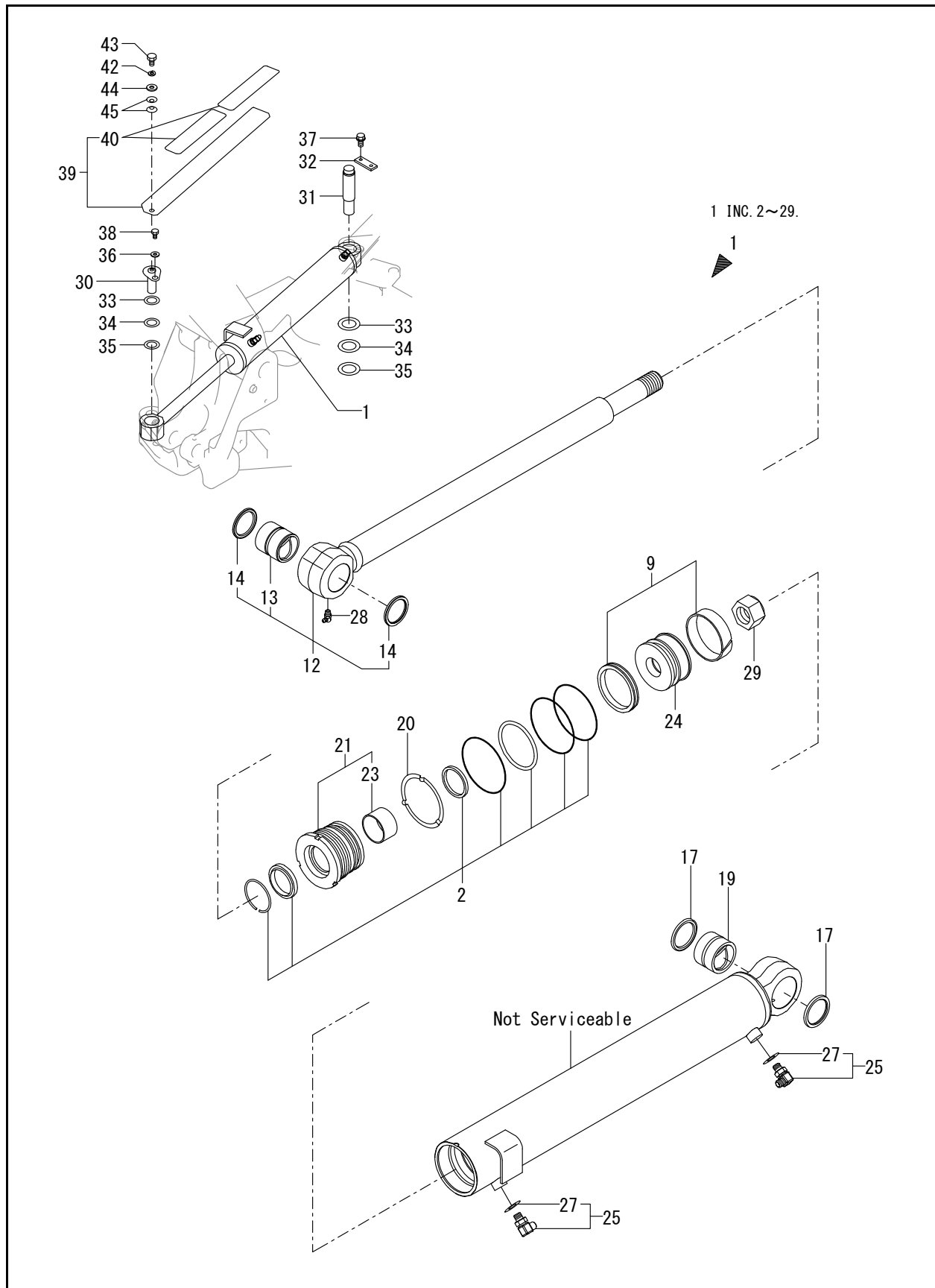
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50283319	SHAFT,14X54	1	50	50283324	GUIDE ASSY	1
2	50283320	GROMMET	1	51	50283325	SLIDE PLATE	1
3	50283344	SPACER	1	52	50282393	SPRING WASHER 10	1
4	50283321	SLIDE GUIDE	2	53	50282393	SPRING WASHER 10	2
5	50283641	CYLINDER, ARM	1	54	50284106	BOLT M10 X 25	2
6	50283206	SEAL SET	1	55	50284117	BOLT M10 X 16 PLATED	1
10	50282737	LOCK WASHER 85	1	56	50282617	WASHER, BRAKE ARM	1
12	50281061	SEAL 50X60X4,DUST	2	57	50282620	SPRING 16	2
14	50280838	BUSHING 50X60	1	58	50280782	CLIP	2
15	50283643	ROD ASSY, ARM	1				
16	50281061	SEAL 50X60X4,DUST	2				
18	50280838	BUSHING 50X60	1				
19	50283644	HEAD ASSY 85 50	1				
21	50282762	BUSHING 50 35, ROD	1				
22	50284151	RING 60, SPRING	1				
23	50283046	COLLAR 26 32,CUSHION	1				
24	50283047	COVER,STOPPER	1				
25	50283207	PISTON	1				
26	50283208	PLUNGER	1				
27	50283209	COLLAR 33 44,CUSHON	1				
28	50281010	SPACER	1				
29	50281011	STOPPER	2				
30	50282763	U-NUT M36	1				
31	50283658	HEAD SEAL SET,85X50	1				
39	50283123	PLUNGER	1				
40	50280823	JOINT 90-3/8 ASSY	1				
41	50282471	O-RING 1B P-14.0	1				
42	50280814	CONNECTOR 1/2L	1				
44	50282474	O-RING 1B P-18.0	1				
45	50284044	CIRCLIP 26	1				
46	50282498	NIPPLE B,GREASE	1				
47	50282499	NIPPLE C,GREASE	1				
48	50283985	COLLOR	2				
49	50283655	BOLT M16X16	1				

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FIG. 80 - BUCKET CYLINDER

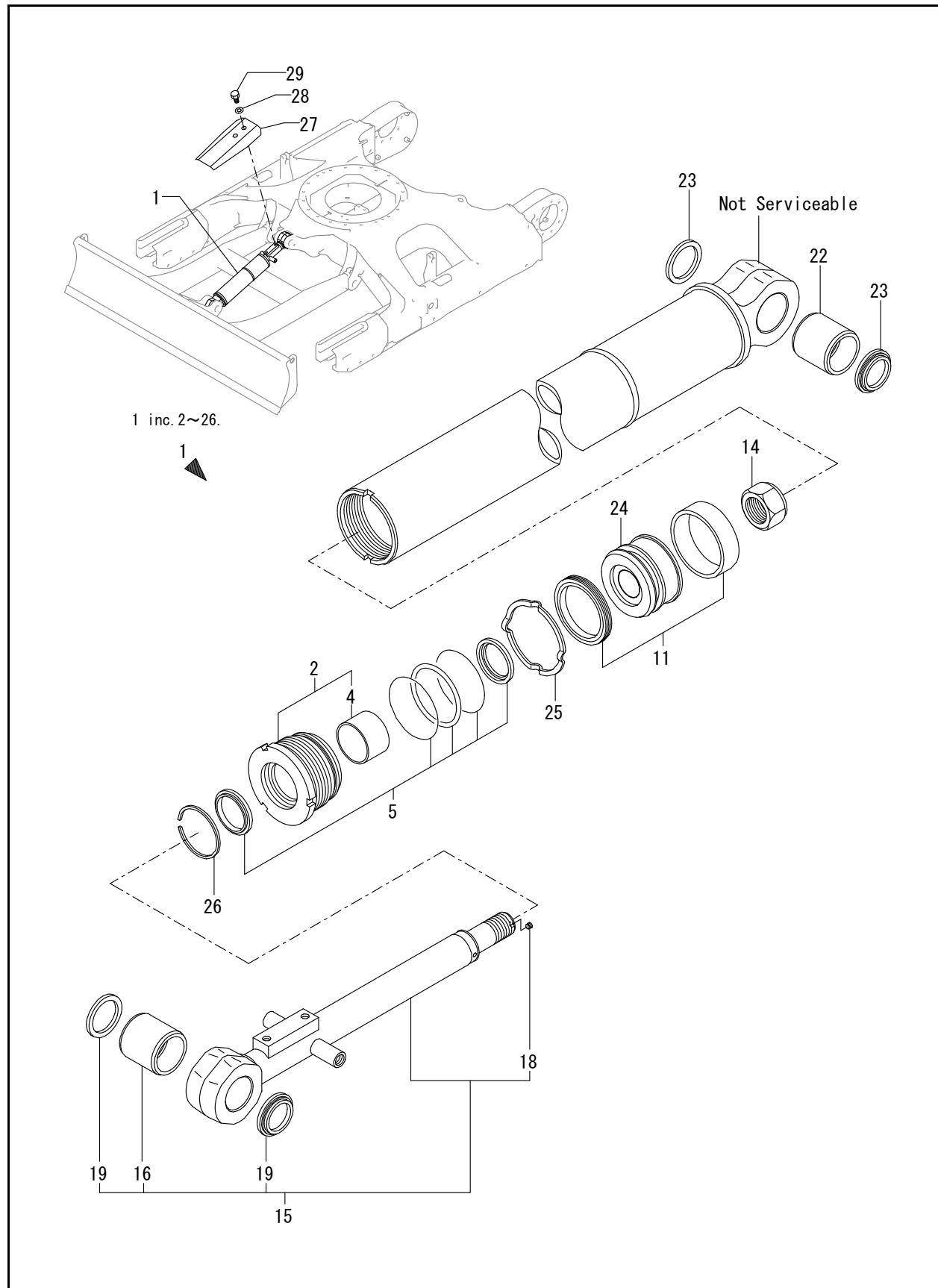


Ref.	No.	Part No.	Description	Qty.
	1	50283319	SHAFT,14X54	1
	2	50283320	GROMMET	1
	3	50283344	SPACER	1
	4	50283321	SLIDE GUIDE	2
	5	50283645	CYLINDER ASSY,BUCKET	1
	6	50282754	PISTON 75	1
	7	50282729	WASHER 75	1
	9	50282804	BUSHING 45X40	1
	11	50282817	SEAL 45X55X4, DUST	2
	12	50283647	PIPE ASSY,BUCKET	1
	13	50283648	ROD ASSY, BUCKET	1
	15	50282764	BUSHING 45 50	1
	16	50282817	SEAL 45X55X4, DUST	2
	17	50283284	SEAL SET, PISTON	1
	20	50283649	HEAD ASSY 75 50	1
	21	50282762	BUSHING 50 35, ROD	1
	23	50284151	RING 60, SPRING	1
	24	50283659	HEAD SEAL SET,75X50	1
	32	50280823	JOINT 90-3/8 ASSY	2
	33	50282471	O-RING 1B P-14.0	2
	34	138111	WASHER/POLISHED	1
	35	50282498	NIPPLE B,GREASE	1
	36	50282499	NIPPLE C,GREASE	1
	37	50282515	BOLT W/WASHER M10X20	1
	38	50284149	U-NUT M33	1
	39	50283985	COLLOR	2
	40	50283655	BOLT M16X16	1
	41	50283656	GUIDE ASSY	1
	42	50283657	PLATE, SLIDE	1
	43	50282393	SPRING WASHER 10	1
	44	50282393	SPRING WASHER 10	2
	45	50284106	BOLT M10 X 25	2
	46	50284117	BOLT M10 X 16 PLATED	1
	47	50282617	WASHER, BRAKE ARM	1
	48	50282620	SPRING 16	2

FIG. 81 - SWING CYLINDER



Ref.	No.	Part No.	Description	Qty.
	1	50283650	CYLINDER ASSY, SWING	1
	2	50283117	SEAL SET	1
	9	50283118	SEAL SET	1
	12	50283120	ROD ASSY, SWING	1
	13	50282803	BUSHING 40X40	1
	14	50282912	SEAL 40X50X4,DUST	2
	17	50282912	SEAL 40X50X4,DUST	2
	19	50283048	BUSHING 40X40,SO	1
	20	50282765	LOCK WASHER 90	1
	21	50283121	HEAD	1
	23	50284094	BUSHING	1
	24	50283122	PISTON	1
	25	50280813	CONNECTOR ASSY, 02FF	2
	27	50282607	PACKING, 11.0	2
	28	50282499	NIPPLE C,GREASE	1
	29	50284149	U-NUT M33	1
	30	50283071	PIN 40 X 117	1
	31	50283902	PIN 40 X 111	1
	32	50283905	PLATE	1
	33	50282812	SHIM 40X75X0.5	4
	34	50282813	SHIM 40X75X1.2	4
	35	50282814	SHIM 40X75X1.6	4
	36	50282388	WASHER 12	1
	37	50282516	BOLT W/WASHER M10X25	2
	38	50284101	BOLT M12 X 25	1
	39	50283124	COVER, SWING	1
	40	50282788	SHEET,NON SLIP50X200	2
	42	50282393	SPRING WASHER 10	1
	43	50284117	BOLT M10 X 16 PLATED	1
	44	50282617	WASHER, BRAKE ARM	1
	45	50282620	SPRING 16	2



Ref.	No.	Part No.	Description	Qty.
	1	50283283	CYLINDER ASSY, BLADE	1
	2	50282757	HEAD ASSY 90 50	1
	4	50282762	BUSHING 50 35, ROD	1
	5	50282758	HEAD SEAL SET 90 50	1
	11	50283118	SEAL SET	1
	14	50282763	U-NUT M36	1
	15	50282860	ROD ASSY, BLADE	1
	16	50282764	BUSHING 45 50	1
	18	50282447	PLUG PT1/8,SCREW	1
	19	50282817	SEAL 45X55X4, DUST	2
	22	50282764	BUSHING 45 50	1
	23	50282817	SEAL 45X55X4, DUST	2
	24	50282861	PISTON 90	1
	25	50282765	LOCK WASHER 90	1
	26	50284150	RING 65, SPRING	1
	27	50282903	COVER, BLADE	1
	28	50284041	WASHER 12,POLISHED	2
	29	50284100	BOLT W/WASHER M12 X 20	2

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 83 - HITCH CYLINDER (QUICK COUPLER)

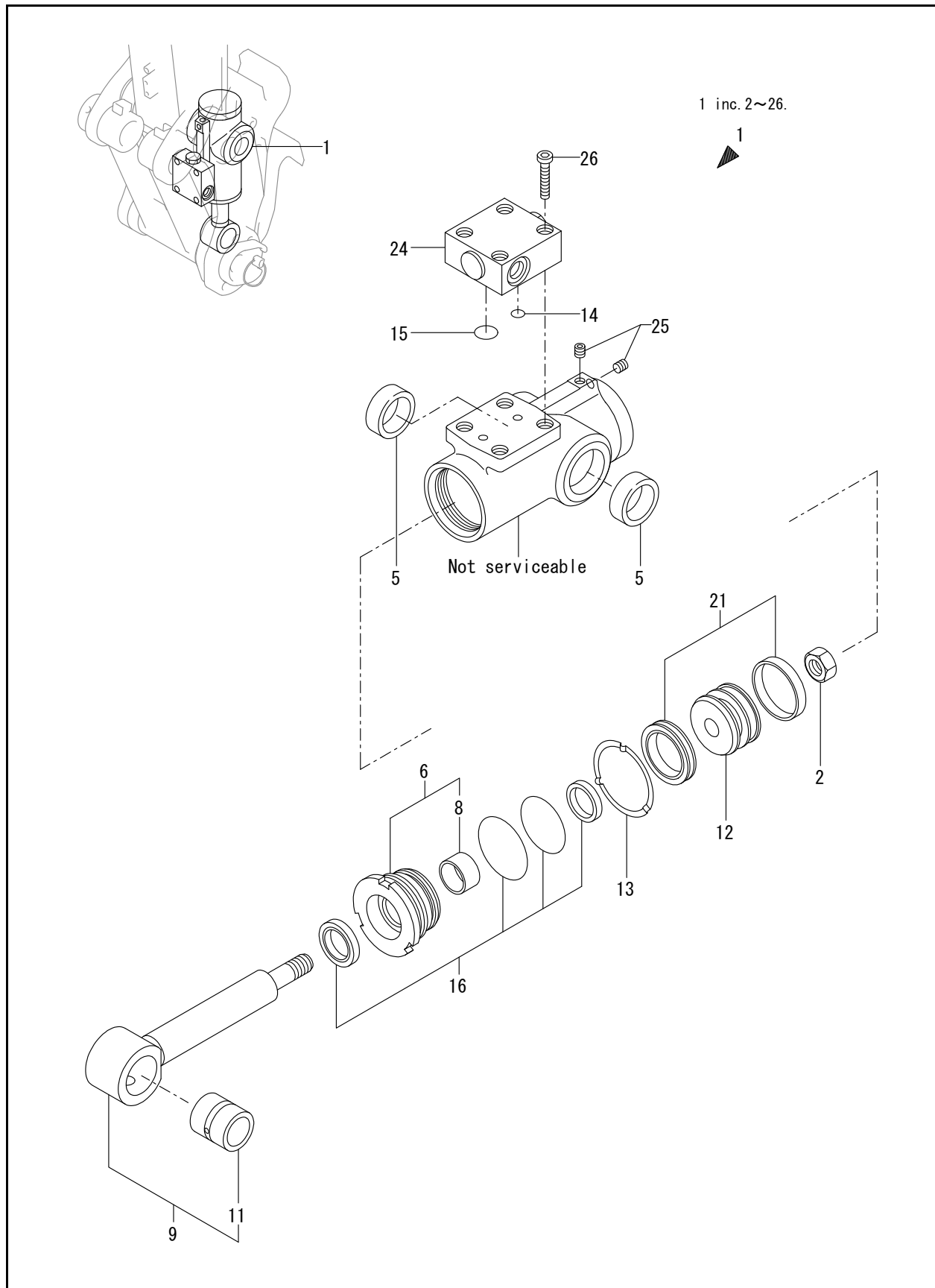
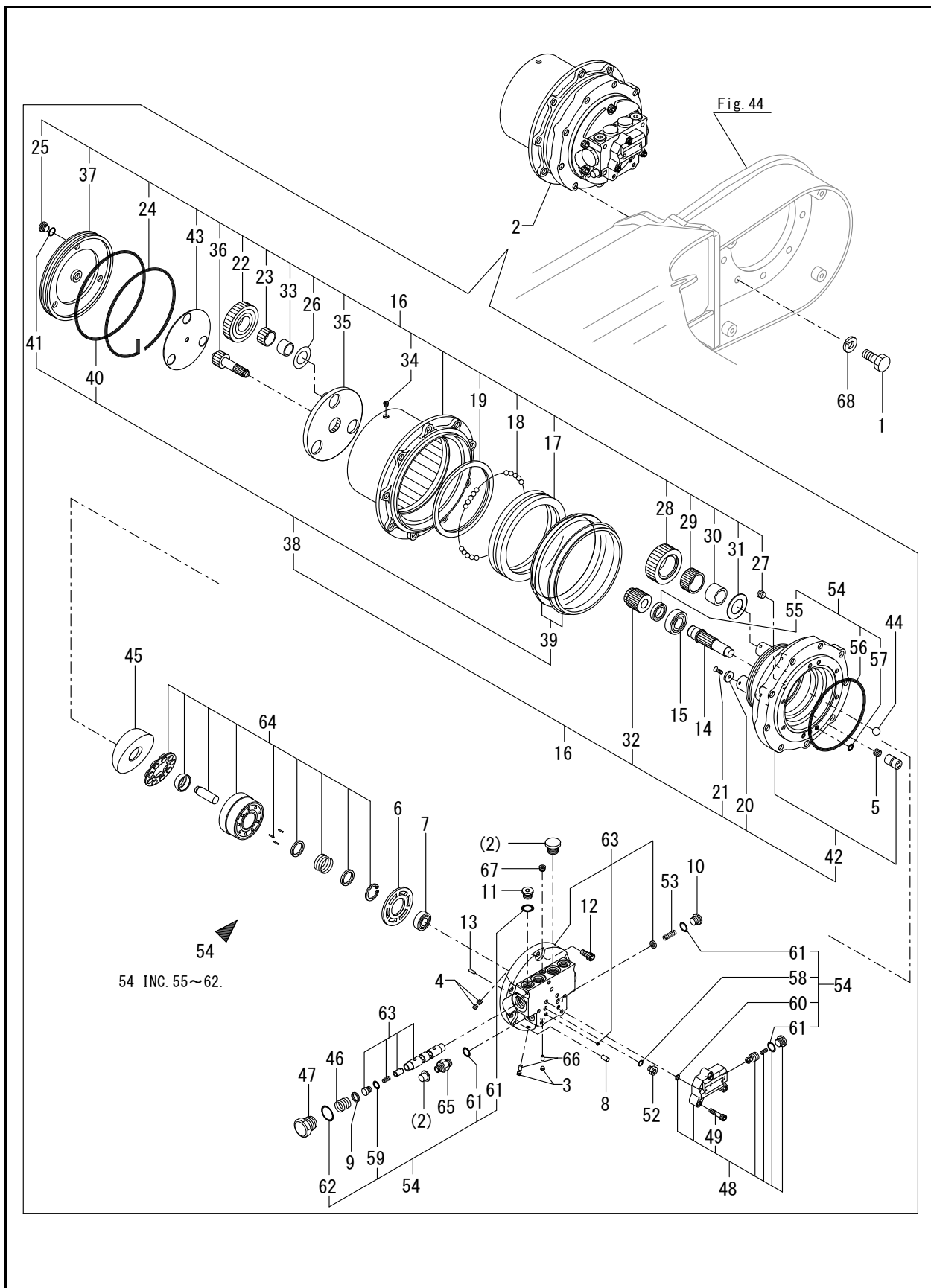


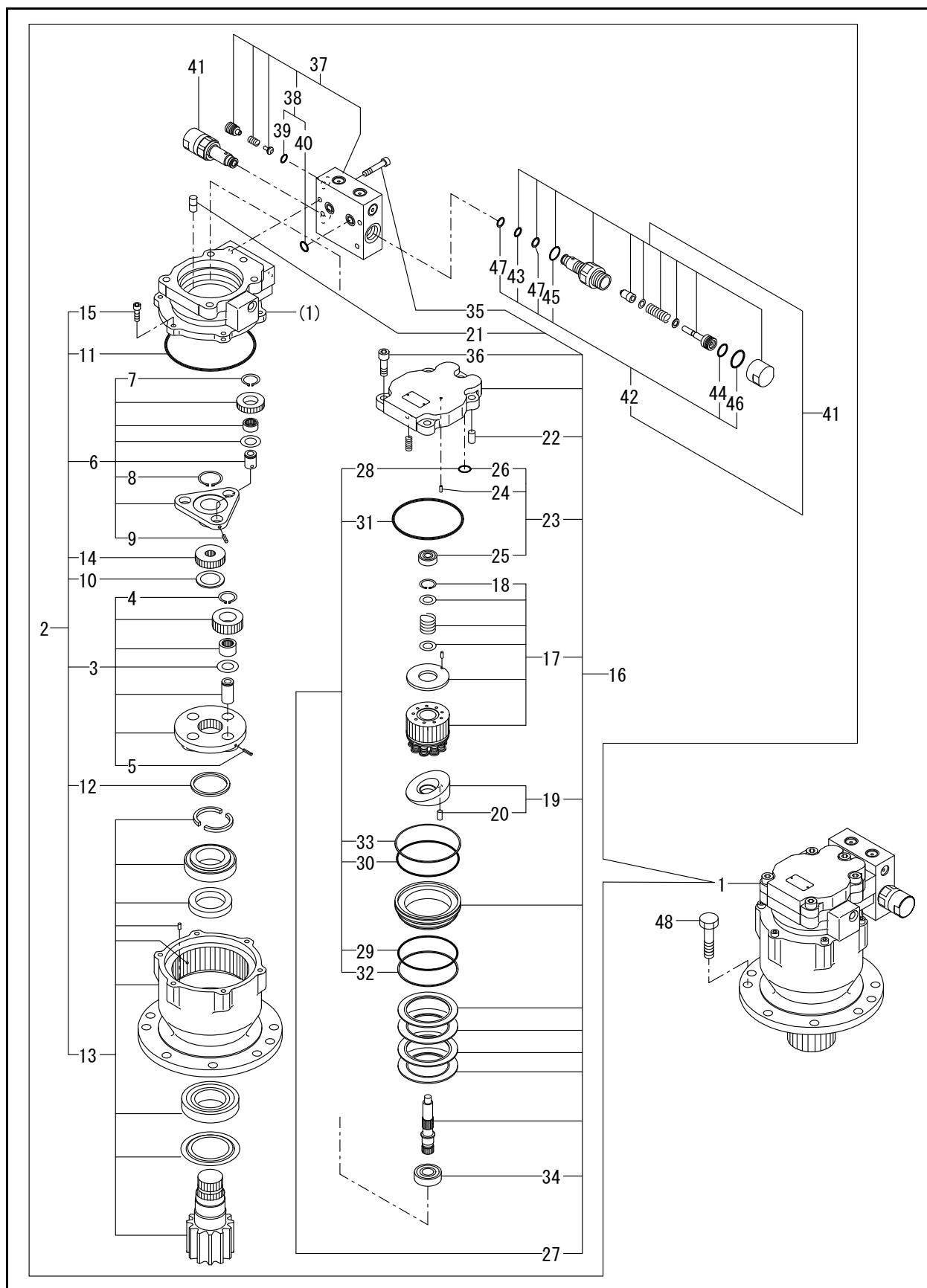
FIG. 83 - HITCH CYLINDER (QUICK COUPLER)

Ref. No.	Part No.	Description	Qty.
1	50283286	CYLINDER, HITCH	1
2	50282730	NUT M20	1
5	50283293	BUSHING	2
6	50283288	HEAD	1
8	50284093	BUSHING 35X20	1
9	50283289	ROD ASSY, HITCH	1
11	50283292	BUSHING	1
12	50283290	PISTON	1
13	50283291	WASHER	1
14	50281374	O-RING P8	1
15	50281375	O-RING P14	1
16	50283294	SEAL SET, HEAD	1
21	50283295	SEAL SET, PISTON	1
24	50283277	VALVE ASSY, OPERATE	1
25	50282446	PLUG, PT1/16	2
26	50282582	BOLT M 6X 30	4

FIG. 84 - TRAVEL MOTOR



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50281066	BOLT 14X35	18	48	50283160	VALVE	2
2	50283141	MOTOR ASSY, TRAVEL	2	49	50283661	HEAD BOLT	6
3	50282747	PLUG	4	52	50283161	PLUG	4
4	50282753	ORIFICE	8	53	50282871	SPRING	2
5	50282748	SPRING	4	54	50283163	SEAL KIT	2
6	50282749	PLATE, VALVE	2	55	50286463	OIL SEAL	2
7	50282750	BALL BEARING	2	56	50286464	O-RING	2
8	50280786	PIN	4	57	50282467	O-RING 1B P-7.0	6
9	50282705	SPRING SEAT	4	58	50282468	O-RING 1B P-8.0	4
10	50280828	PLUG	2	59	50282469	O-RING 1B P-10.0	4
11	50280828	PLUG	4	60	50284851	O-RING 1B P-12.0	6
12	50282751	HEAD BOLT, SOCKET	12	61	50282471	O-RING 1B P-14.0	12
13	50282707	PIN	2	62	50282480	O-RING 1B P-29.0	4
14	50282868	SHAFT	2	63	50283166	PLATE KIT, BASE	2
15	50282869	BEARING	2	64	50282872	CYLINDER BLOCK KIT	2
16	50283153	REDUCTION GEAR	2	65	50283049	PLUG	2
17	50282714	BEARING	2	66	50282849	ORIFICE	8
18	50280795	BALL	198	67	425-35678	PLUG PT 1/4 SCREW	2
19	50282715	RING NUT	2	68	188712	SPRING/WASHER 14	18
20	50282743	PLATE	2				
21	50282728	SCREW	8				
22	50282744	PLANETARY, GEAR A	6				
23	50282745	GAUGE W/ROLLER	6				
24	50282746	WIRE	2				
25	50280836	PLUG	6				
26	50283660	PLATE, THRUST	6				
27	50282862	PLUG	4				
28	50282863	GEAR	8				
29	50282864	BEARING	8				
30	50282865	LATHE	8				
31	50281012	WASHER	8				
32	50282866	SUN GEAR	2				
33	50282867	LATHE	6				
34	50282706	PLUG	4				
35	50283154	HOLDER	2				
36	50283155	GEAR, DRIVE	2				
37	50283156	COVER	2				
38	50283162	SEAL KIT	2				
39	50282742	SEAL	4				
40	50286465	O-RING	2				
41	50282470	O-RING 1B P-11.0	6				
42	50283164	FRAME ASSY	2				
43	50283165	PLATE KIT, THRUST	2				
44	50282870	BALL BEARING	4				
45	50283157	PLATE, SWASH	2				
46	50283158	SPRING	4				
47	50283159	CAP	4				



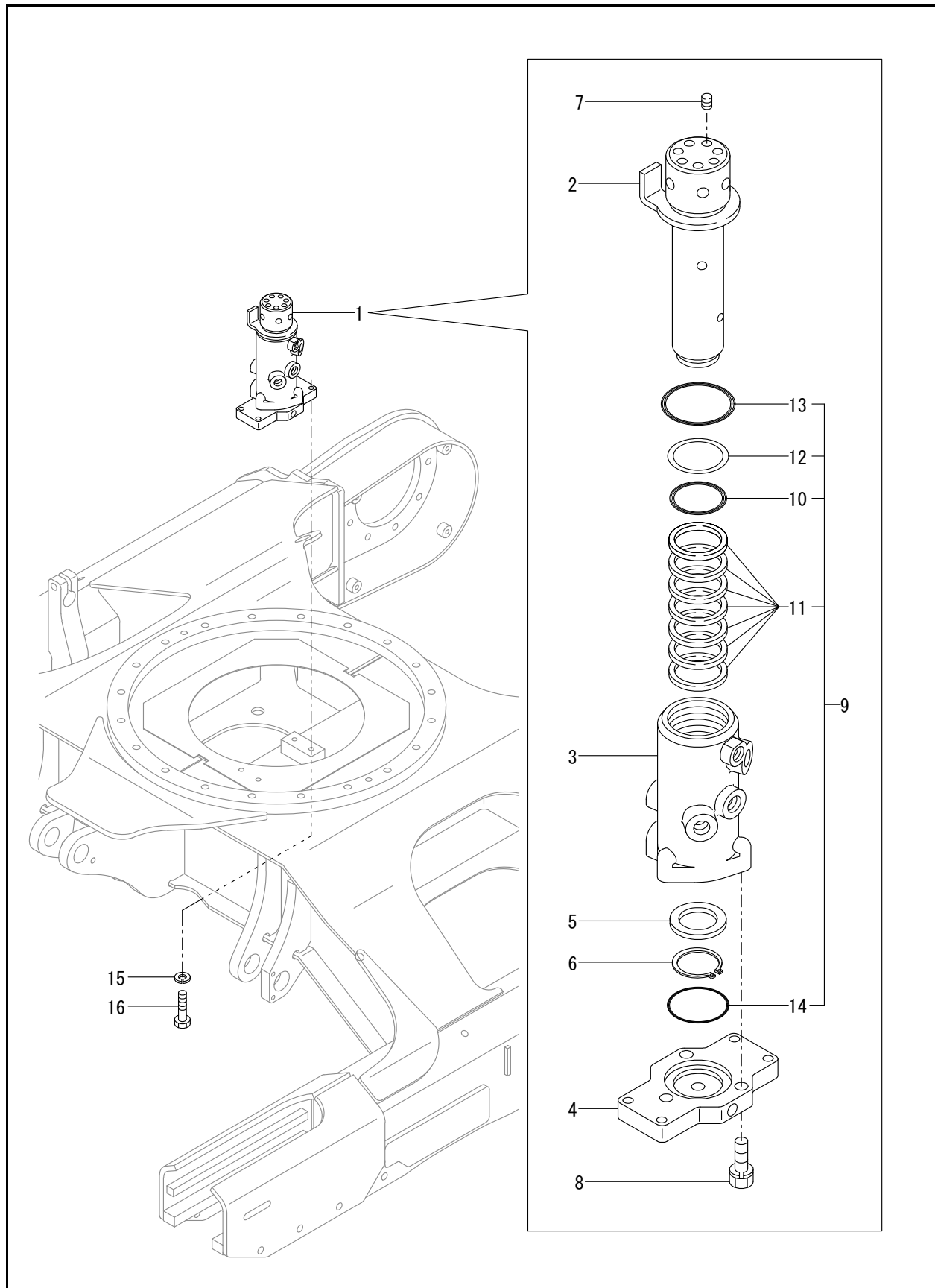
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FIG. 85 - TURNING MOTOR

Ref. No.	Part No.	Description	Qty.
1	50283215	MOTOR COMP.,SWING	1
2	50283167	REDUCTION GEAR	1
3	50282874	CARRIER 1 KIT	1
4	425-35232	CIRCLIP 20	4
5	50284055	SPRING PIN 4X20	4
6	50282875	CARRIER 2 KIT	1
7	425-35232	CIRCLIP 20	3
8	50284045	CIRCLIP 30	1
9	50284055	SPRING PIN 4X20	3
10	50282878	COLLER	1
11	50282879	O-RING	1
12	50282880	RING	1
13	50283168	PINION	1
14	50283175	GEAR	1
15	50284134	BOLT M8 X 25	6
16	50283169	HYD.MOTOR	1
17	50282876	BARREL KIT	1
18	50284047	CIRCLIP 28	1
19	50282877	PLATE KIT	1
20	50282881	PIN	1
21	50286466	FILTER	2
22	50286467	PIN	1
23	50283170	BODY H KIT	1
24	50284056	PIN 5X12,SPRING	1
25	50284070	BALL BEARING	1
26	50282474	O-RING 1B P-18.0	2
27	50283171	SEAL KIT	1
28	50282474	O-RING 1B P-18.0	2
29	50284084	O-RING, 1B G100.0	1
30	50284085	O-RING, 1B G110	1
31	50284086	O-RING BG120.0	1
32	50284090	BACKUP RING T3 G100	1
33	50284091	BACKUP RING T3 G110	1
34	50284072	BALL BEARING	1

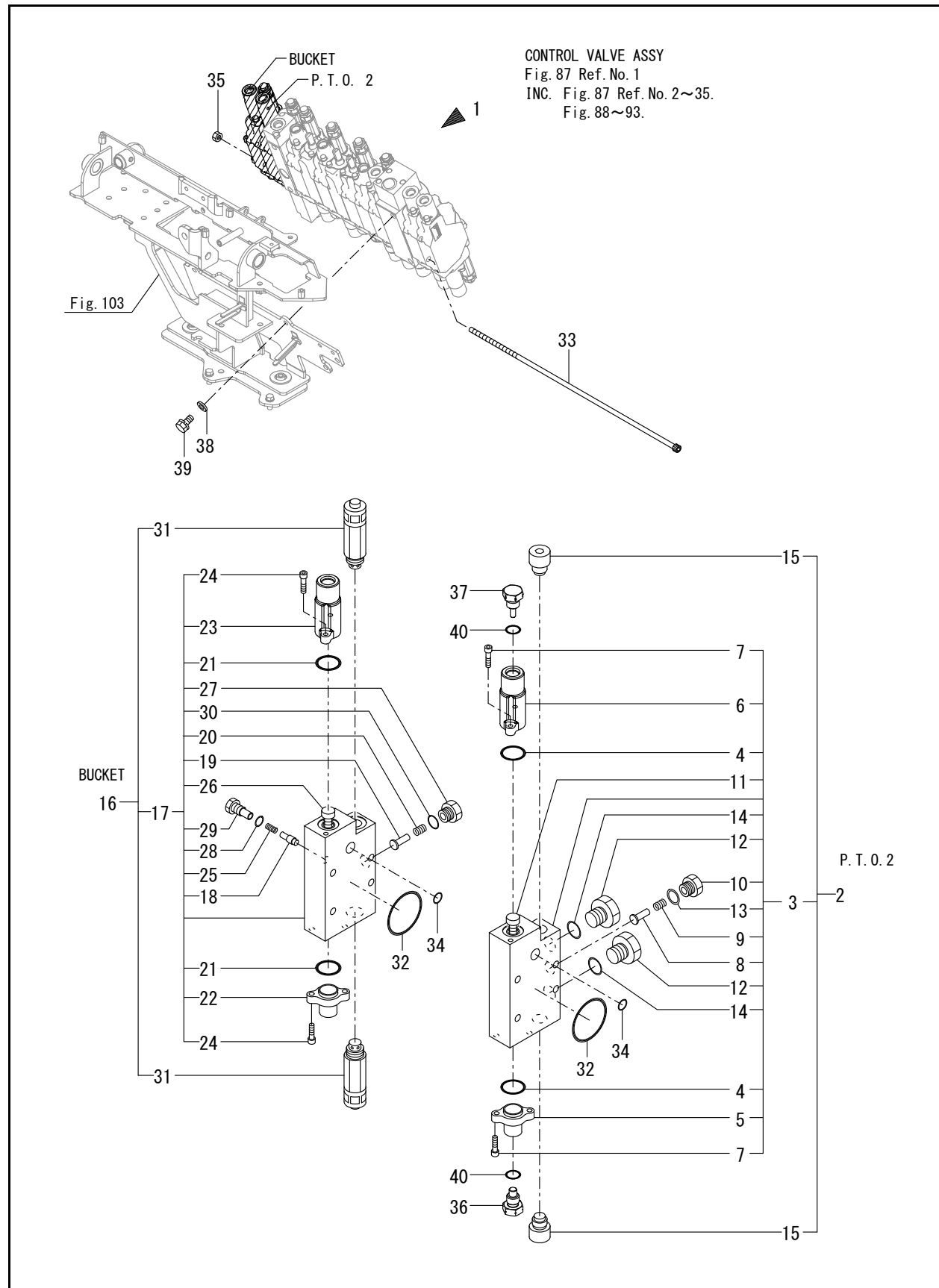
Ref. No.	Part No.	Description	Qty.
35	50282587	BOLT 8X50	4
36	50284136	BOLT, M12 X 35	5
37	50283172	VALVE	1
38	50283173	SEAL KIT	1
39	50282470	O-RING 1B P-11.0	2
40	50282474	O-RING 1B P-18.0	2
41	50283216	VALVE ASSY	2
42	50283174	SEAL KIT	2
43	50282471	O-RING 1B P-14.0	2
44	50282474	O-RING 1B P-18.0	2
45	50284079	O-RING 1B P-22.0	2
46	50284080	O-RING 1B P-28.0	2
47	50284088	RING	4
48	50281146	BOLT	9

FIG. 86 - SWIVEL JOINT



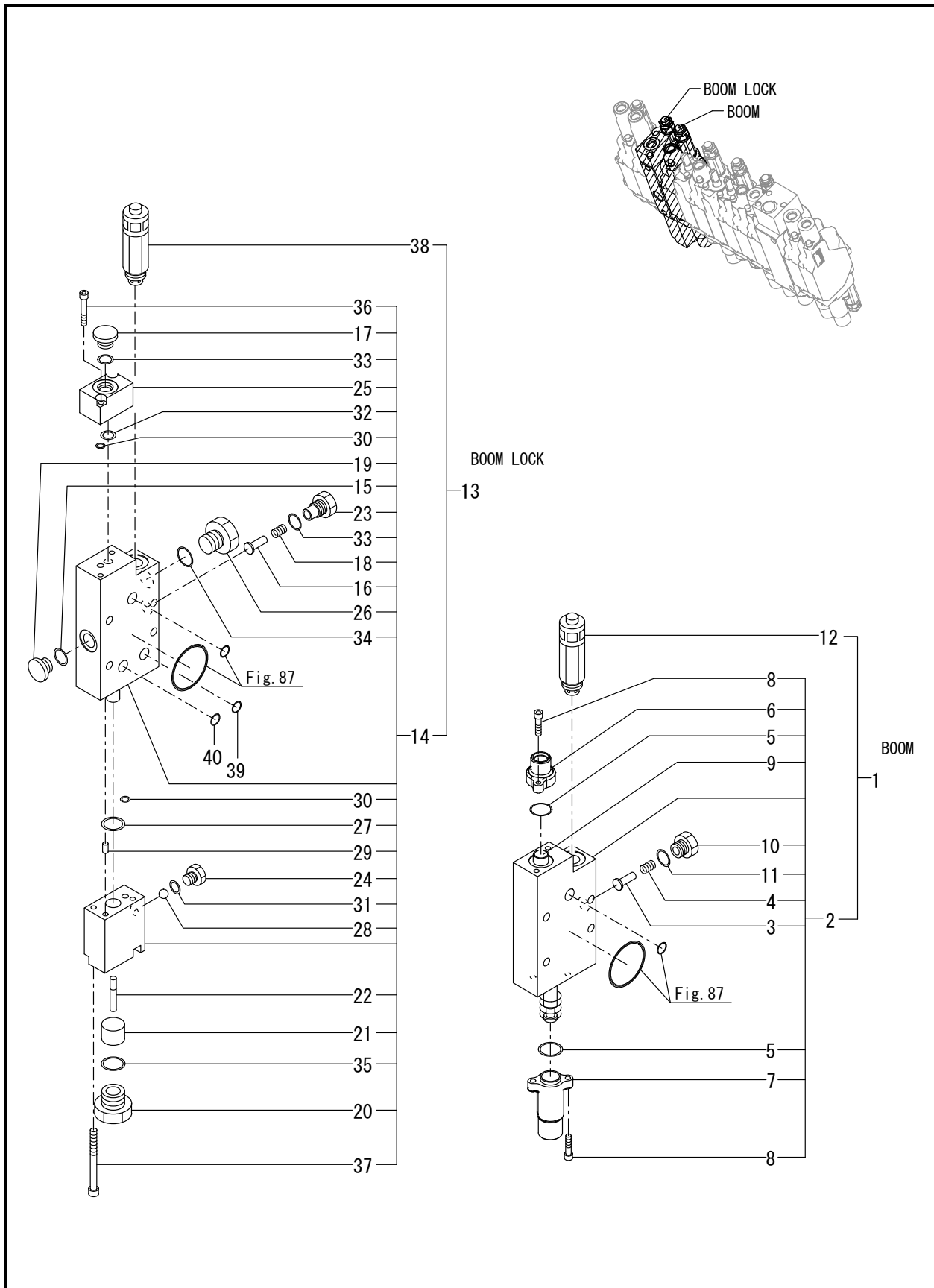
Ref.	No.	Part No.	Description	Qty.
	1	50282890	JOINT ASSY, SWIVEL	1
	2	50282891	SHAFT, SWIVEL	1
	3	50282892	HUB, SWIVEL	1
	4	50282893	FLANGE, SWIVEL	1
	5	50282722	SPACER, SWIVEL	1
	6	50284046	CIRCLIP 45	1
	7	425-35678	PLUG PT 1/4 SCREW	7
	8	50282518	BOLT M10X 35	3
	9	50282894	SEAL KIT, SWIVEL	1
	10	50282735	O-RING 55.76X5.7	1
	11	50282908	SEAL	7
	12	50282755	RING EL, BACK UP	1
	13	50284077	O-RING 1A P-75.0	1
	14	186610	O-RING 1A G70.0 NBR	1
	15	50282393	SPRING WASHER 10	4
	16	50284119	BOLT M10 X 35	4

FIG. 87 - CONTROL VALVE (1/7)



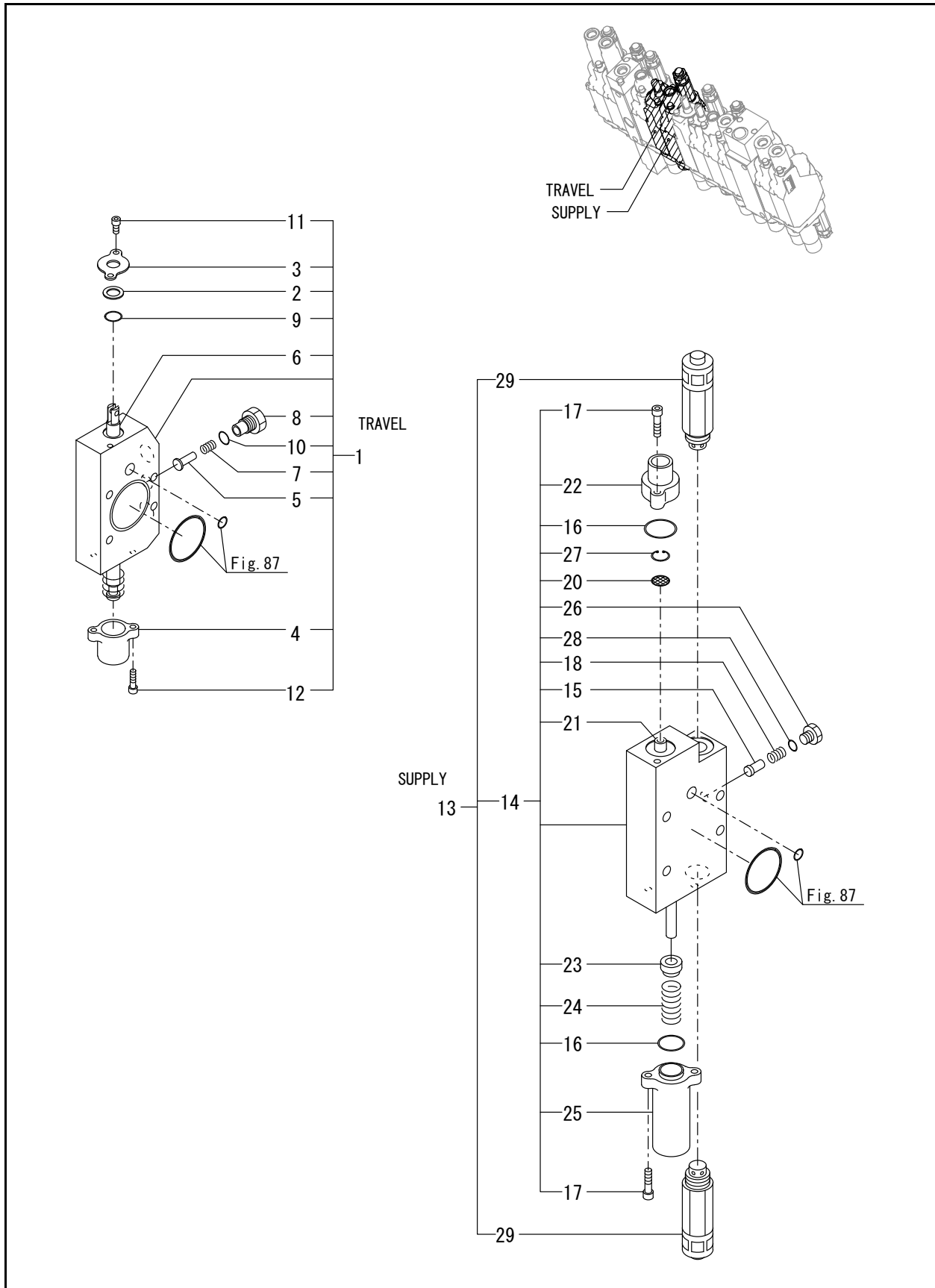
Ref.	No.	Part No.	Description	Qty.
	1	50283665	VALVE ASSY, CONTROL	1
	2	50286550	PTO 2 SECTION ASSY	1
	3	50286540	PTO 2 SECTION ASSY	1
	4	50283055	PACKING S 22	2
	5	50283056	COVER B1, PILOT	1
	6	50283057	COVER A1, PILOT	1
	7	50283058	SWP HEX.BOLT 5X20	4
	8	50283254	CHECK VALVE	1
	9	50283255	SPRING, CHECK VALVE	1
	10	50283256	STAY, CHECK VALVE	1
	11	50286527	PTO 2 SPOOL ASSY	1
	12	50283750	STAY,CHECK V(SC3A	2
	13	50282470	O-RING 1B P-11.0	1
	14	50282471	O-RING 1B P-14.0	2
	15	50283730	RELIEF VALVE PLUG AS	2
	16	50286551	BUCKET SECTION ASSY	1
	17	50286541	BUCKET SECTION ASSY	1
	18	50283265	CHECK VALVE	1
	19	50283052	CHECK VALVE	1
	20	50283053	SPRING, CHECK VALVE	1
	21	50283055	PACKING S 22	2
	22	50283056	COVER B1, PILOT	1
	23	50283057	COVER A1, PILOT	1
	24	50283058	SWP HEX.BOLT 5X20	4
	25	50282819	SPRING,CHECK	1
	26	50286528	BUCKET SPOOL ASSY	1
	27	50283065	STAY, CHECK VALVE	1
	28	50283719	O-RING AS568-904	1
	29	50283721	STAY, CHECK VALVE	1
	30	50282470	O-RING 1B P-11.0	1
	31	50283731	VALVE ASSY, OVERLOAD	2
	32	50285391	PACKING G 4	12
	33	50283729	BOLT L=412	4
	34	50286594	O-RING	12
	35	50282596	NUT M 8	4
	36	50283780	PILOT PLUG A	1
	37	50283781	PILOT PLUG B	1
	38	50284039	WASHER 10	3
	39	50282514	BOLT M10X 16	3
	40	50282607	PACKING, 11.0	2

FIG. 88 - CONTROL VALVE (2/7)



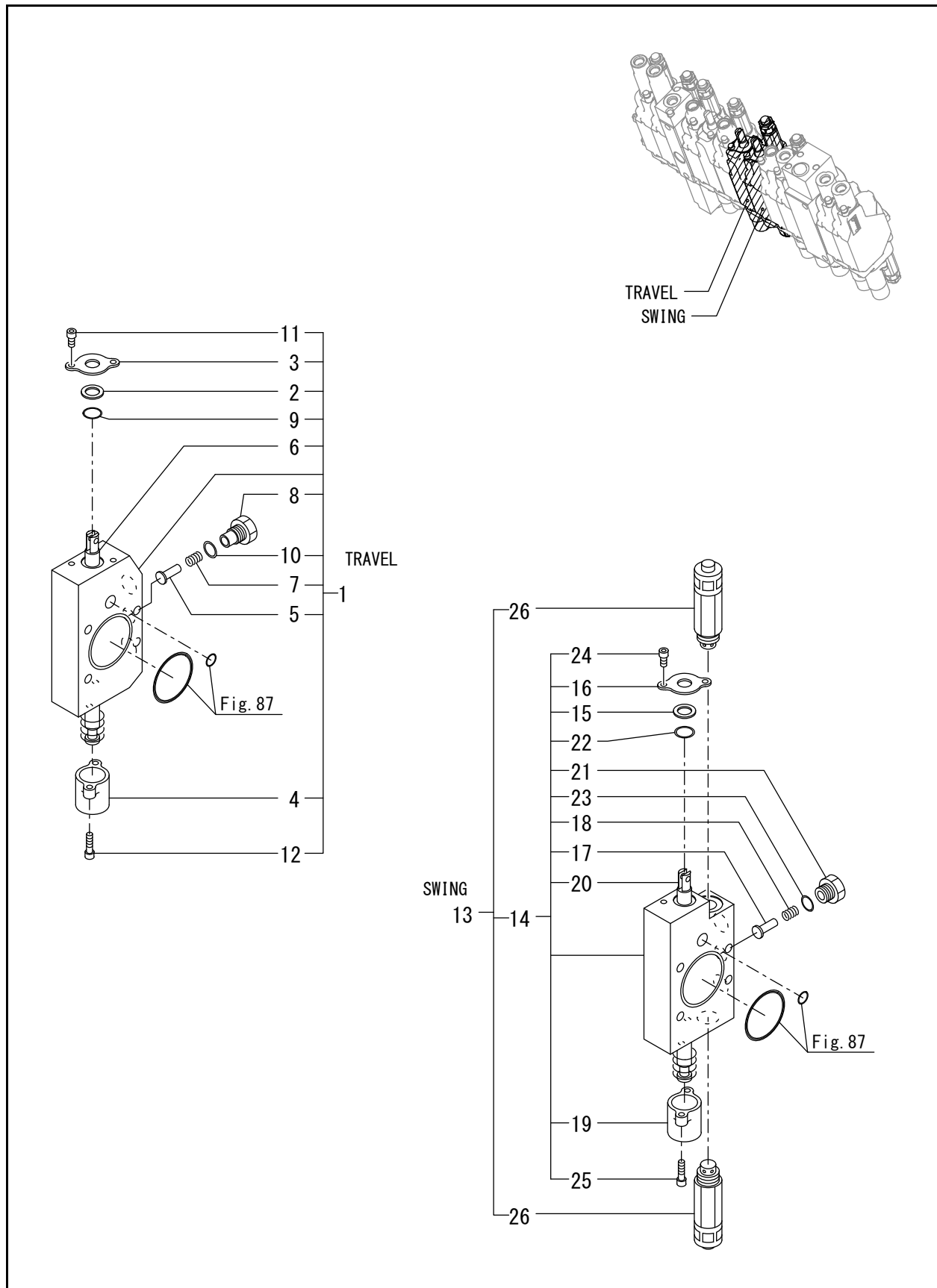
Ref.	No.	Part No.	Description	Qty.
	1	50286548	BOOM SECTION ASSY	1
	2	50286538	BOOM SECTION ASSY	1
	3	50283052	CHECK VALVE	1
	4	50283053	SPRING, CHECK VALVE	1
	5	50283055	PACKING S 22	2
	6	50283056	COVER B1, PILOT	1
	7	50283057	COVER A1, PILOT	1
	8	50283058	SWP HEX.BOLT 5X20	4
	9	50286526	BOOM SPOOL ASSY	1
	10	50283065	STAY, CHECK VALVE	1
	11	50282470	O-RING 1B P-11.0	1
	12	50283731	VALVE ASSY, OVERLOAD	1
	13	50286549	LOCK SECTION ASSY	1
	14	50286539	LOCK SECTION ASSY	1
	15	50283678	O-RING 1B S16	1
	16	50283059	CHECK VALVE	1
	17	50282840	PLUG PF1/4	1
	18	50283060	SPRING, CHECK VALVE	1
	19	50283697	PLUG,M12X1.25	1
	20	50283707	BUSHING PF1/2X1/4	1
	21	50283708	PISTON B	1
	22	50283709	PISTON A1	1
	23	50283066	STAY, CHECK VALVE	1
	24	50283716	STAY,BALL	1
	25	50283717	BODY,DISCHARGE	1
	26	50283750	STAY,CHECK V(SC3A	1
	27	50283756	O-RING AS 1B17	1
	28	50283757	STEEL BALE 7MM	1
	29	50284053	PARALLEL PIN, M5X10	2
	30	197795	O-RING 1A P-6.0	2
	31	50282468	O-RING 1B P-8.0	1
	32	50282469	O-RING 1B P-10.0	1
	33	50282470	O-RING 1B P-11.0	2
	34	50282471	O-RING 1B P-14.0	1
	35	50282474	O-RING 1B P-18.0	1
	36	50284130	BOLT M5 X 30	2
	37	50284133	BOLT M6 X 65	2
	38	50283731	VALVE ASSY, OVERLOAD	1
	39	50285892	O-RING 1B P- 9.0	1
	40	50282469	O-RING 1B P-10.0	1

FIG. 89 - CONTROL VALVE (3/7)



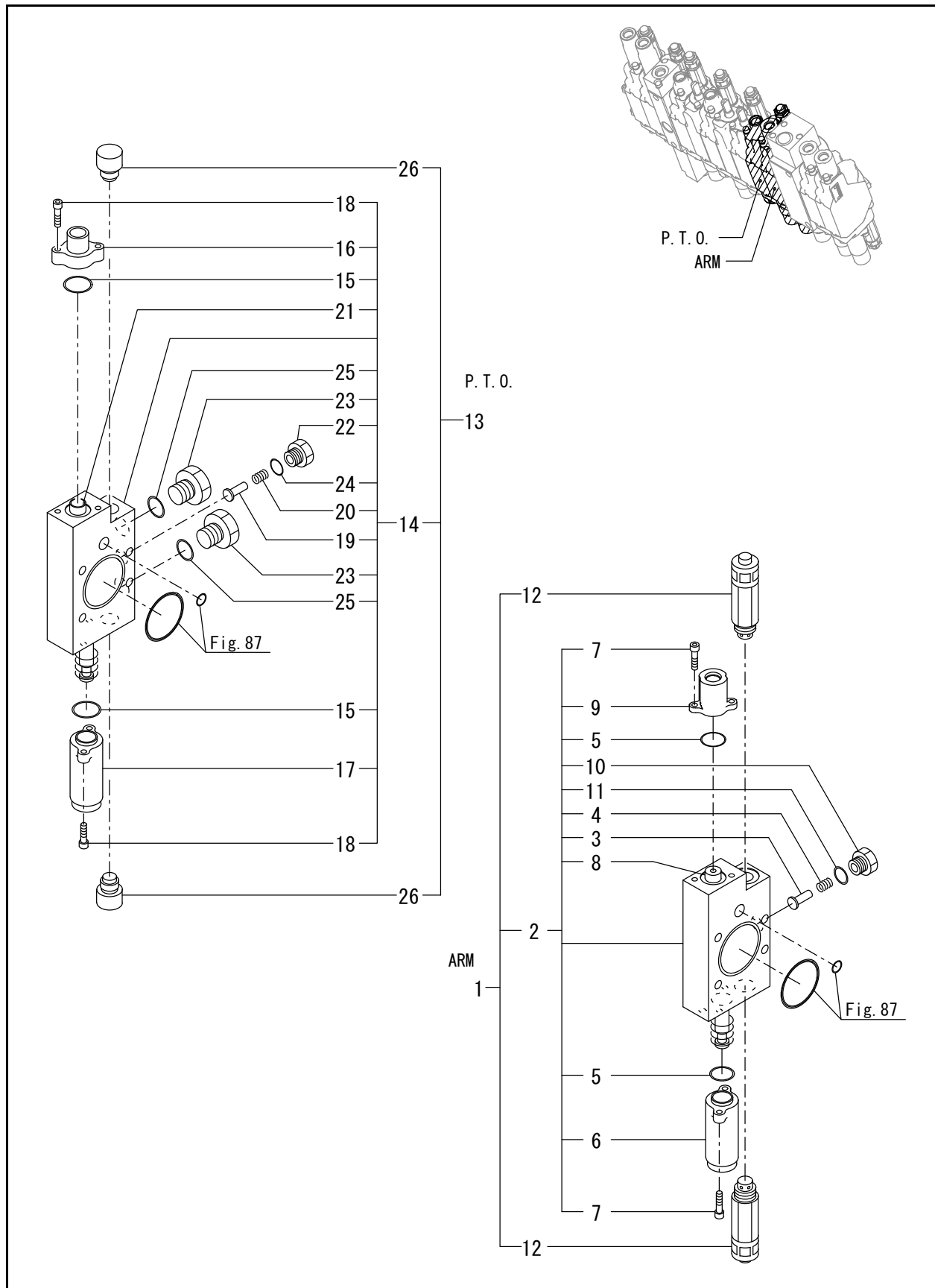
Ref.	No.	Part No.	Description	Qty.
	1	50286537	TRAVEL SECTION ASSY	1
	2	50283050	DUST WIPER	1
	3	50283051	BRACKET, OIL SEAL	1
	4	50283968	CAP, SPRING	1
	5	50283059	CHECK VALVE	1
	6	50286525	TRAVEL SPOOL ASSY	1
	7	50283060	SPRING, CHECK VALVE	1
	8	50283066	STAY, CHECK VALVE	1
	9	425-34776	O-RING 1A P-12.0	1
	10	50282470	O-RING 1B P-11.0	1
	11	197813	BOLT M5X10	2
	12	50284129	BOLT 5* 18	2
	13	50286547	INLET SECTION ASSY	1
	14	50286536	INLET SECTION ASSY	1
	15	50283265	CHECK VALVE	1
	16	50283055	PACKING S 22	2
	17	50283058	SWP HEX.BOLT 5X20	4
	18	50282819	SPRING,CHECK	1
	20	50283688	FILTER	1
	21	50283689	PISTON	1
	22	50283690	COVER B5, PILOT	1
	23	50283062	SEAT, SPRING	1
	24	50283063	SPRING,RETURN	1
	25	50283064	COVER A2, PILOT	1
	26	50283068	PLUG,PF1/8	1
	27	50283722	CIRCLIP,C	1
	28	50282468	O-RING 1B P-8.0	1
	29	50283724	VALVE ASSY, RELIEF	2

FIG. 90 - CONTROL VALVE (4/7)



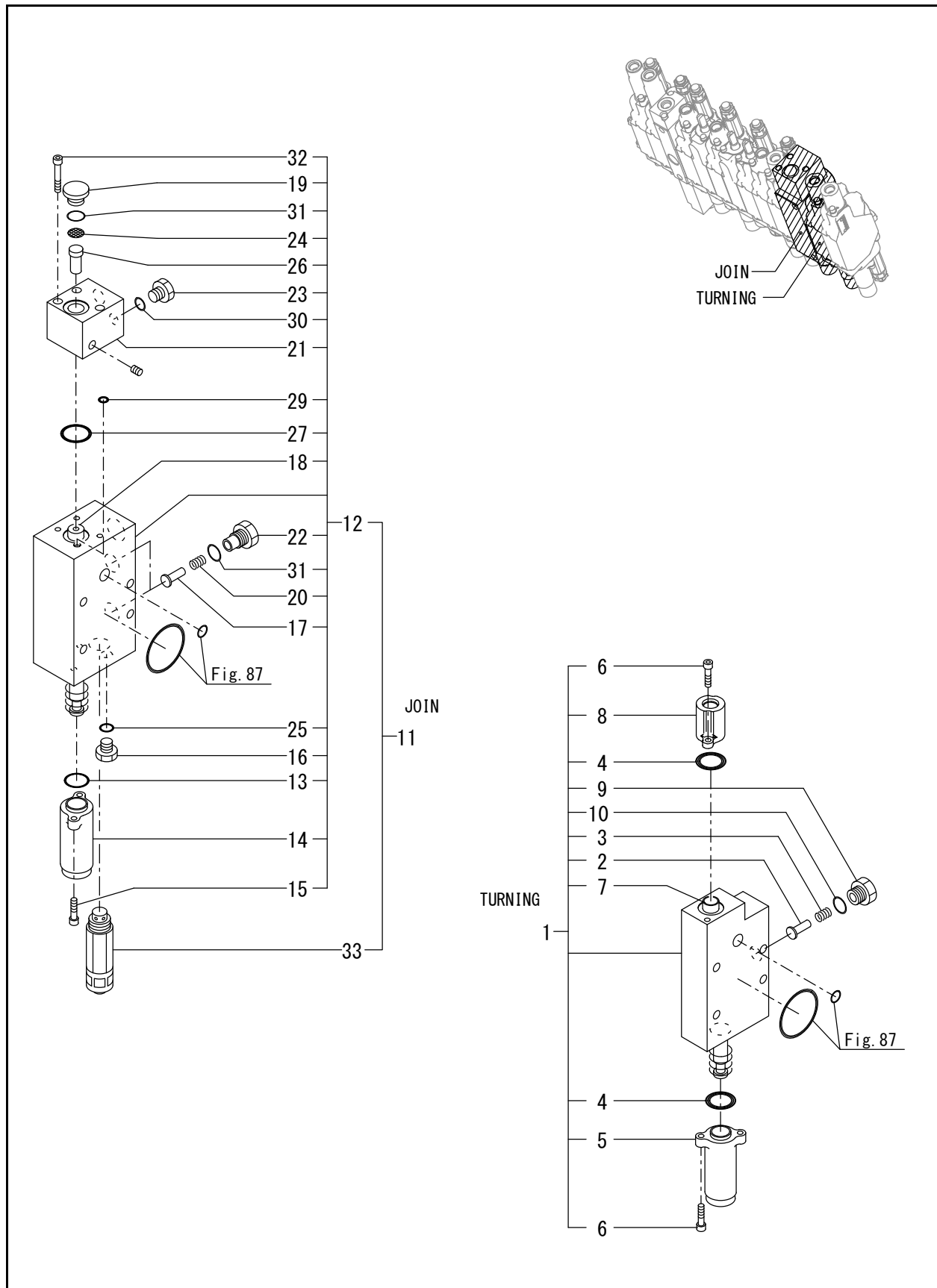
Ref.	No.	Part No.	Description	Qty.
	1	50286535	TRAVEL SECTION ASSY	1
	2	50283050	DUST WIPER	1
	3	50283051	BRACKET, OIL SEAL	1
	4	50283968	CAP, SPRING	1
	5	50283059	CHECK VALVE	1
	6	50286525	TRAVEL SPOOL ASSY	1
	7	50283060	SPRING, CHECK VALVE	1
	8	50283066	STAY, CHECK VALVE	1
	9	425-34776	O-RING 1A P-12.0	1
	10	50282470	O-RING 1B P-11.0	1
	11	197813	BOLT M5X10	2
	12	50284129	BOLT 5* 18	2
	13	50286546	SWING SECTION ASSY	1
	14	50286534	SWING SECTION ASSY	1
	15	50283050	DUST WIPER	1
	16	50283051	BRACKET, OIL SEAL	1
	17	50283052	CHECK VALVE	1
	18	50283053	SPRING, CHECK VALVE	1
	19	50283968	CAP, SPRING	1
	20	50286524	SWING SPOOL ASSY	1
	21	50283065	STAY, CHECK VALVE	1
	22	425-34776	O-RING 1A P-12.0	1
	23	50282470	O-RING 1B P-11.0	1
	24	197813	BOLT M5X10	2
	25	50284129	BOLT 5* 18	2
	26	50283731	VALVE ASSY, OVERLOAD	2

FIG. 91 - CONTROL VALVE (5/7)



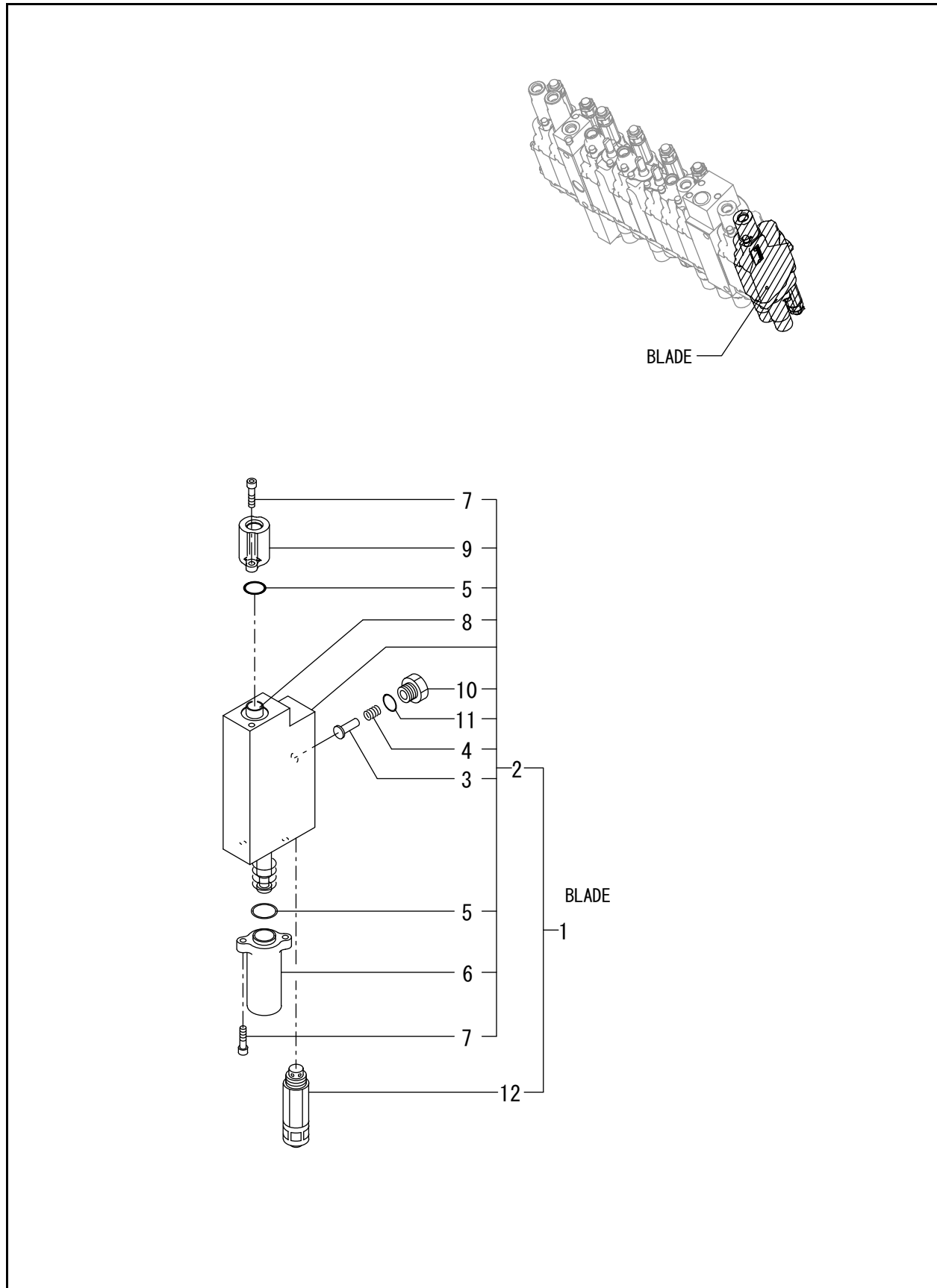
Ref.	No.	Part No.	Description	Qty.
	1	50286544	ARM SECTION ASSY	1
	2	50286532	ARM SECTION ASSY	1
	3	50283052	CHECK VALVE	1
	4	50283053	SPRING, CHECK VALVE	1
	5	50283055	PACKING S 22	2
	6	50283057	COVER A1, PILOT	1
	7	50283058	SWP HEX.BOLT 5X20	4
	8	50286522	ARM SPOOL ASSY	1
	9	50286552	PILOT CAP	1
	10	50283065	STAY, CHECK VALVE	1
	11	50282470	O-RING 1B P-11.0	1
	12	50283731	VALVE ASSY, OVERLOAD	2
	13	50286545	PTO 1 SECTION ASSY	1
	14	50286533	PTO 1 SECTION ASSY	1
	15	50283055	PACKING S 22	2
	16	50283056	COVER B1, PILOT	1
	17	50283057	COVER A1, PILOT	1
	18	50283058	SWP HEX.BOLT 5X20	4
	19	50283254	CHECK VALVE	1
	20	50283255	SPRING, CHECK VALVE	1
	21	50286523	PTO 1 SPOOL ASSY	1
	22	50283256	STAY, CHECK VALVE	1
	23	50283750	STAY,CHECK V(SC3A	2
	24	50282470	O-RING 1B P-11.0	1
	25	50282471	O-RING 1B P-14.0	2
	26	50283730	RELIEF VALVE PLUG AS	2

FIG. 92 - CONTROL VALVE (6/7)



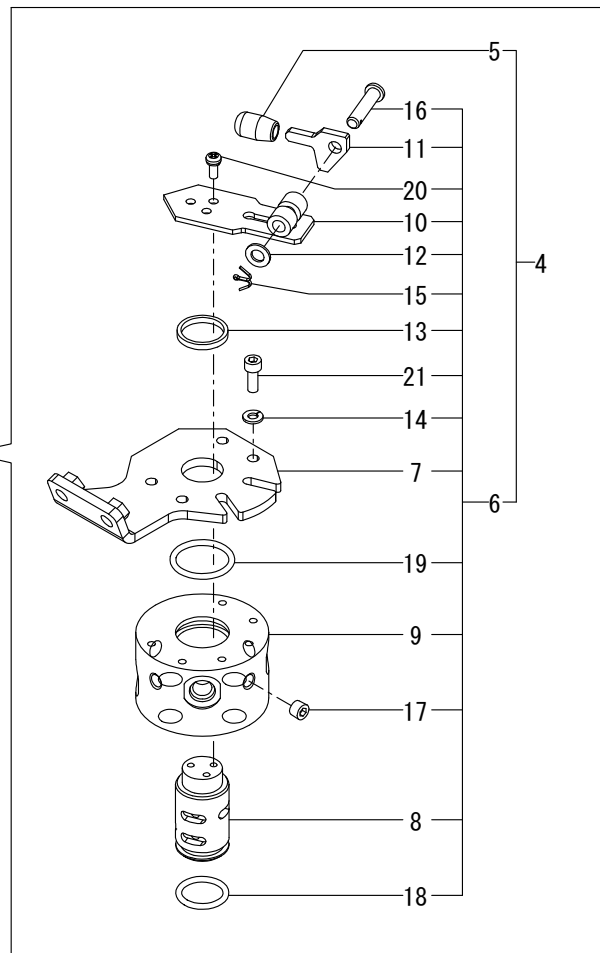
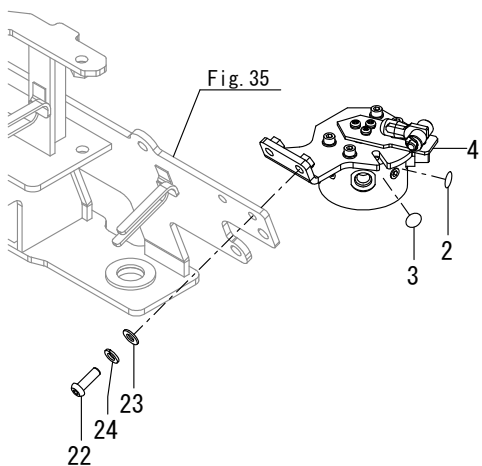
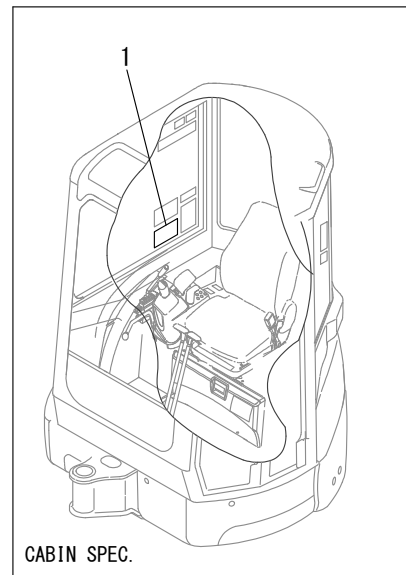
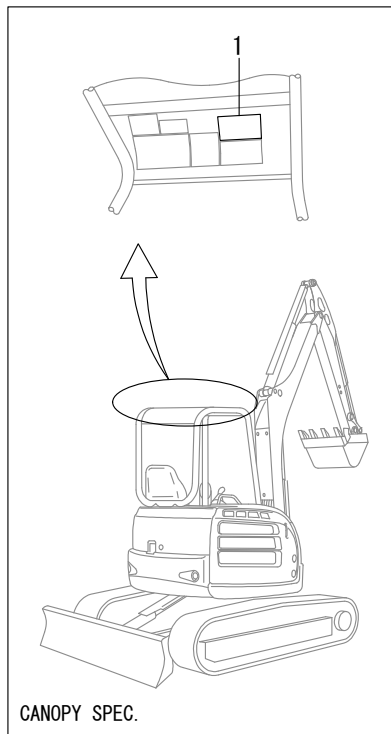
Ref.	No.	Part No.	Description	Qty.
	1	50286530	SWING SECTION ASSY	1
	2	50283052	CHECK VALVE	1
	3	50283053	SPRING, CHECK VALVE	1
	4	50283055	PACKING S 22	2
	5	50283057	COVER A1, PILOT	1
	6	50283058	SWP HEX.BOLT 5X20	4
	7	50286521	TURNING SPOOL ASSY	1
	8	50286552	PILOT CAP	1
	9	50283065	STAY, CHECK VALVE	1
	10	50282470	O-RING 1B P-11.0	1
	11	50286543	SECTION ASSY	1
	12	50286531	SECTION ASSY	1
	13	50283055	PACKING S 22	1
	14	50283057	COVER A1, PILOT	1
	15	50283058	SWP HEX.BOLT 5X20	2
	16	50283677	PLUG (SAE1/4)	1
	17	50283059	CHECK VALVE	2
	18	50283681	SPOOL ASSY,JOIN	1
	19	50282840	PLUG PF1/4	1
	20	50283060	SPRING, CHECK VALVE	2
	21	50286553	PILOT BLOCK	1
	22	50283066	STAY, CHECK VALVE	2
	23	50283068	PLUG,PF1/8	1
	24	50283266	FILTER	1
	25	50283719	O-RING AS568-904	1
	26	50283267	PLUG	1
	27	50283756	O-RING AS 1B17	1
	29	50286604	O-RING	1
	30	50282468	O-RING 1B P-8.0	1
	31	50282470	O-RING 1B P-11.0	3
	32	50284131	BOLT M5 X 45	3
	33	50283724	VALVE ASSY, RELIEF	1

FIG. 93 - CONTROL VALVE (7/7)



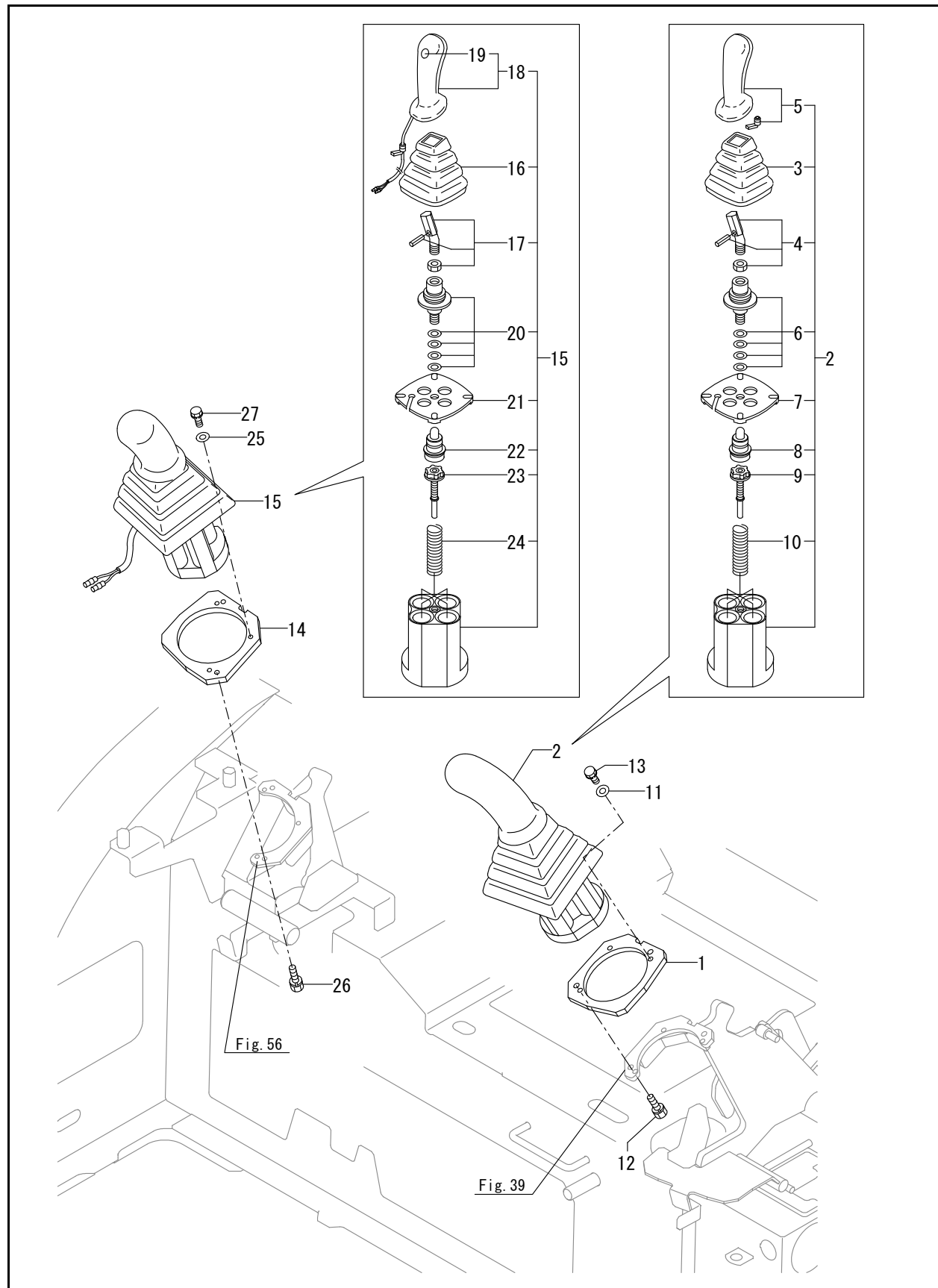
Ref.	No.	Part No.	Description	Qty.
	1	50286542	BLADE SECTION ASSY	1
	2	50286529	BLADE SECTION ASSY	1
	3	50283052	CHECK VALVE	1
	4	50283053	SPRING, CHECK VALVE	1
	5	50283055	PACKING S 22	2
	6	50283057	COVER A1, PILOT	1
	7	50283058	SWP HEX.BOLT 5X20	4
	8	50286520	BLADE SPOOL ASSY	1
	9	50286552	PILOT CAP	1
	10	50283065	STAY, CHECK VALVE	1
	11	50282470	O-RING 1B P-11.0	1
	12	50283732	VALVE/RELIEF	1

FIG. 94 - 2-WAY VALVE



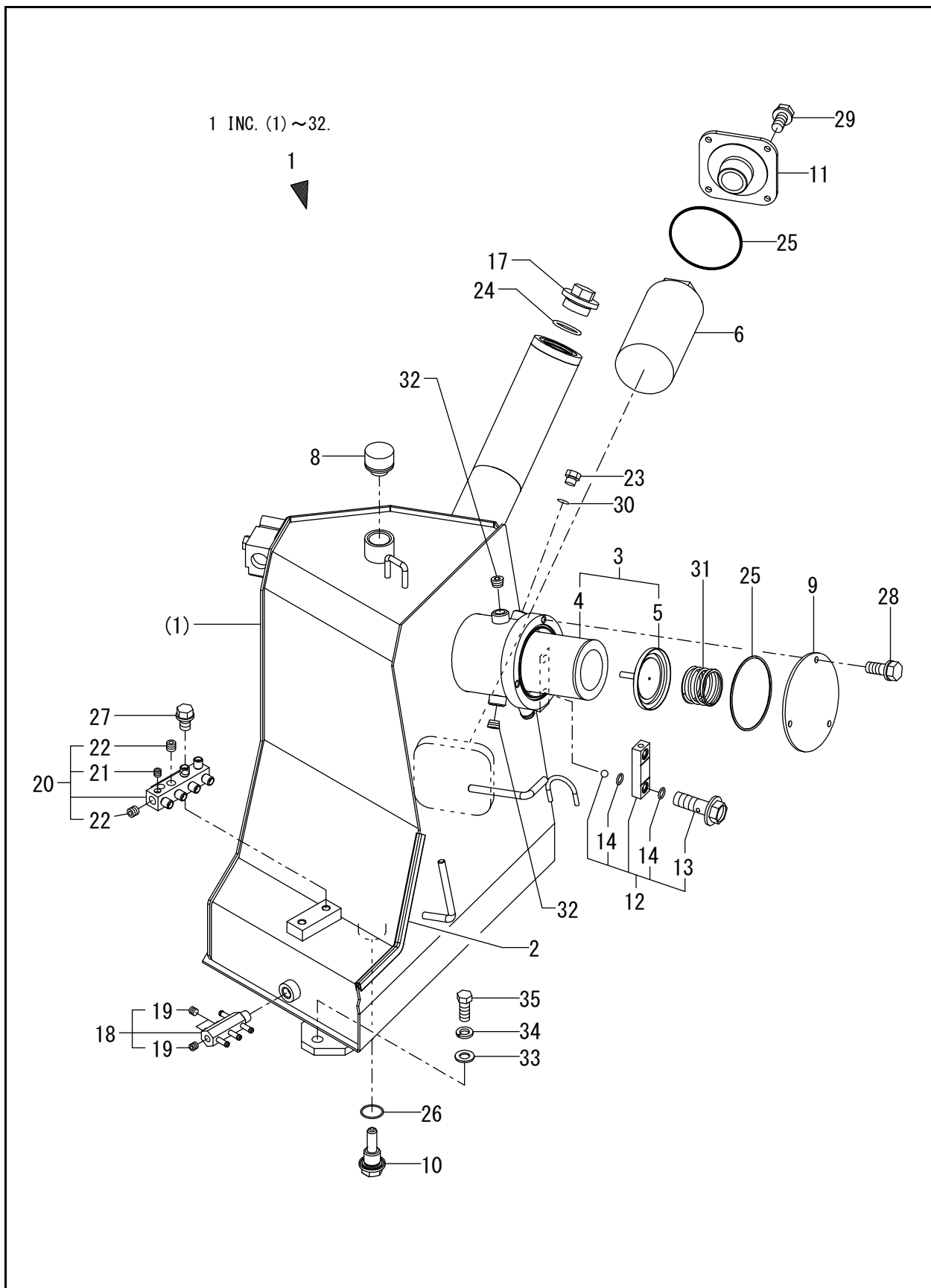
Ref.	No.	Part No.	Description	Qty.
	1	50281037	LABEL, 2-WAY US	1
	2	50281038	LABEL	1
	3	50281039	LABEL	1
	4	50286557	2-WAY VALVE ASSY	1
	5	50280849	KNOB 6.5X18X35	1
	6	50286558	2-WAY VALVE SUB ASSY	1
	7	50286559	STAY ASSY	1
	8	50281040	SHAFT	1
	9	50281041	BLOCK, VALVE	1
	10	50281427	LEVER	1
	11	50281428	PLATE, LOCK	1
	12	138515	WASHER 8	1
	13	50282384	WASHER 24, POLISHED	1
	14	425-34891	SPRING WASHER 6	4
	15	50282417	COTTER PIN 2.0X16	1
	16	50282421	PIN 8X 30	1
	17	50282447	PLUG PT1/8, SCREW	4
	18	50282460	O-RING 1A P-25.0	1
	19	425-34745	O-RING 1A P-32.0	1
	20	425-36271	SCREW M 5 X 12	3
	21	50282581	BOLT M 6X 16	4
	22	50286560	BOLT, 8X25	2
	23	50282380	WASHER 8, POLISHED	2
	24	50282392	WASHER, 8	2

FIG. 95 - REMOTE CONTROL VALVE



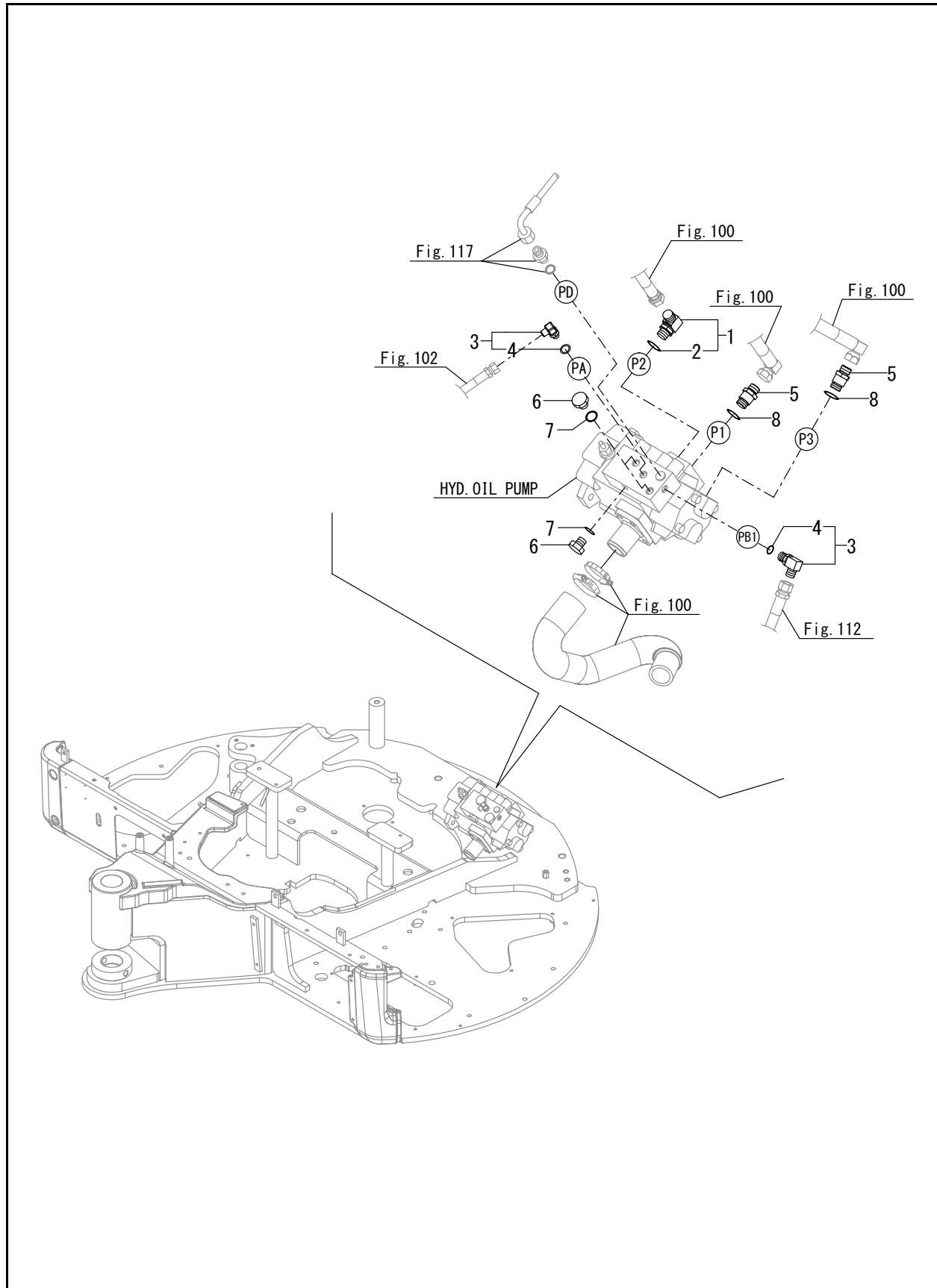
Ref.	No.	Part No.	Description	Qty.
	1	50282081	SPACER, VALVE	1
	2	50283223	VALVE ASSY, L. US	1
	3	50281044	BELLOWS	1
	4	50281045	COMMAND KIT	1
	5	50282885	HANDLE L	1
	6	50281150	CARDAN KIT	1
	7	50281151	RETAINING PLATE	1
	8	50281152	PLUNGER KIT	1
	9	50281153	REGULATION KIT	4
	10	50281154	SPRING KIT	1
	11	50282379	WASHER 6, POLISHED	3
	12	50282502	BOLT M 6X 16	2
	13	50284095	BOLT M6 X 20	3
	14	50282081	SPACER, VALVE	1
	15	50283702	VALVE ASSY, R PTO	1
	16	50281044	BELLOWS	1
	17	50281045	COMMAND KIT	1
	18	50283703	HANDLE YT	1
	19	50283224	PUSH BUTTON	1
	20	50281150	CARDAN KIT	1
	21	50281151	RETAINING PLATE	1
	22	50281152	PLUNGER KIT	1
	23	50281153	REGULATION KIT	4
	24	50281154	SPRING KIT	1
	25	50282379	WASHER 6, POLISHED	3
	26	50282502	BOLT M 6X 16	2
	27	50284095	BOLT M6 X 20	3

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FIG. 96 - HYD. OIL TANK



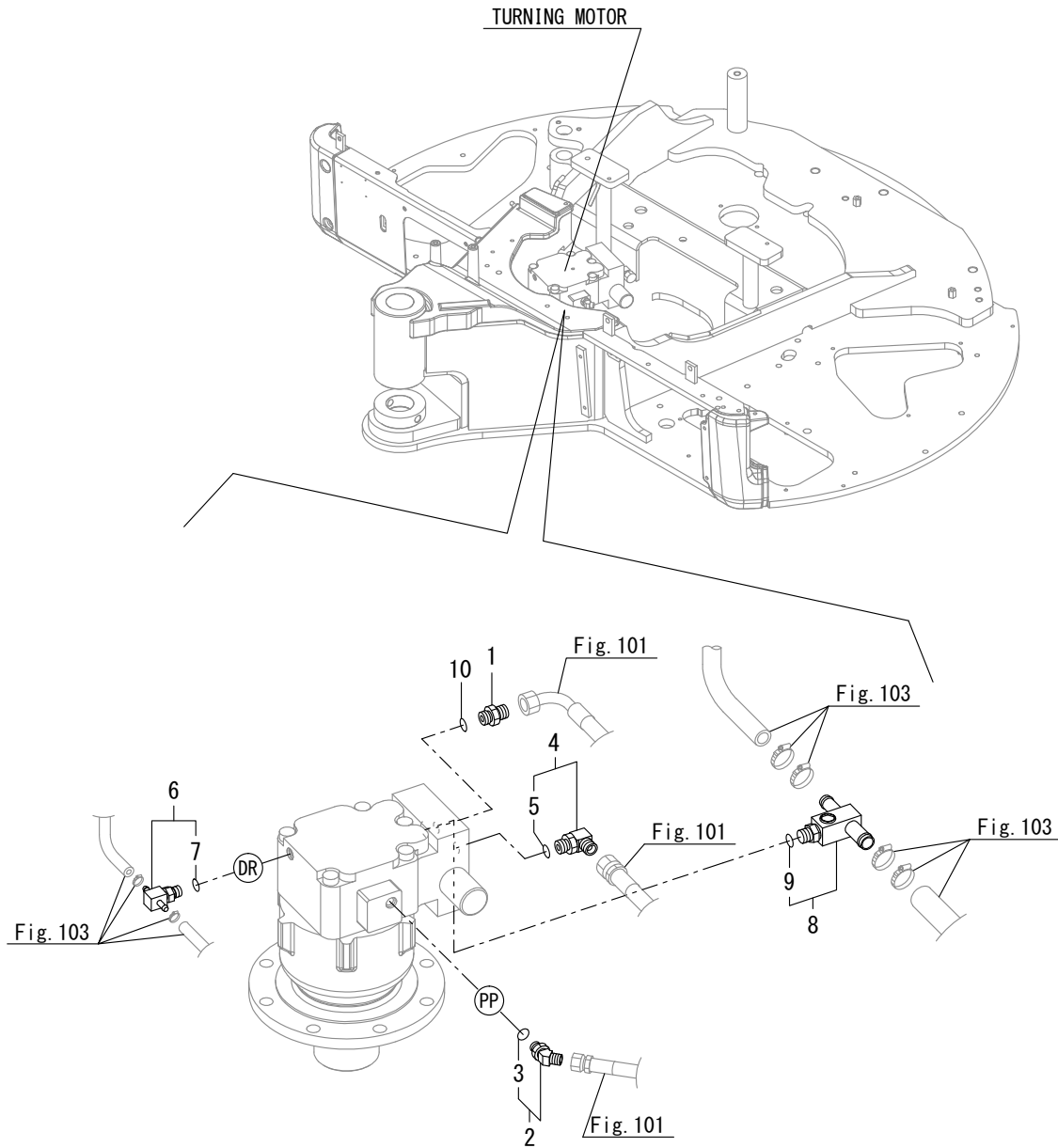
Ref.	No.	Part No.	Description	Qty.
	1	50284144	TANK ASSY, OIL	1
	2	50282773	RUBBER A,EDGE	1
	3	50282821	FILTER ASSY, RETURN	1
	4	50282822	ELEMENT	1
	5	50282731	VALVE ASSY, BYPASS	1
	6	50282738	FILTER, SUCTION	1
	8	50282906	CAP	1
	9	50283723	COVER, TANK	1
	10	50280969	PLUG 24	1
	11	50283346	FRANGE, SUCTION	1
	12	50282909	GAUGE ASSY	1
	13	50281103	BOLT M10	2
	14	50281104	O-RING	4
	17	50282691	PLUG, OIL FEED	1
	18	50283782	DRAIN BLOCK	1
	19	425-35678	PLUG PT 1/4 SCREW	3
	20	50283783	PILOT BLOCK	1
	21	50282447	PLUG PT1/8,SCREW	1
	22	425-35678	PLUG PT 1/4 SCREW	2
	23	50282805	PLUG PF1/4	1
	24	50282462	O-RING 1A P-38.0	1
	25	50284083	O-RING 1A G-105.0	2
	26	50282493	O-RING 1A S-30.0	1
	27	50282515	BOLT W/WASHER M10X20	2
	28	50282534	BOLT M 8X 20	3
	29	425-35026	BOLT M8 X 25	4
	30	50282607	PACKING, 11.0	1
	31	50284152	SPRING, SIDE CLUTCH	1
	32	425-34728	PLUG PT 3/8	2
	33	50284042	WASHER 14,POLISHED	3
	34	188712	SPRING/WASHER 14	3
	35	50282567	BOLT M14X 35 PLATED	3

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FIG. 97 - HYD. OIL PIPING (FITTING : PUMP)



Ref.	No.	Part No.	Description	Qty.
	1	50283775	ELBOW 90G1/2-G1/2	1
	2	50282609	O RING	1
	3	50280813	CONNECTOR ASSY, 02FF	2
	4	50282607	PACKING, 11.0	2
	5	50280835	CONNECTOR	2
	6	50282805	PLUG PF1/4	2
	7	50282607	PACKING, 11.0	2
	8	50282609	O RING	2

FIG. 98 - HYD. OIL PIPING (FITTING : TURNING MOTOR)

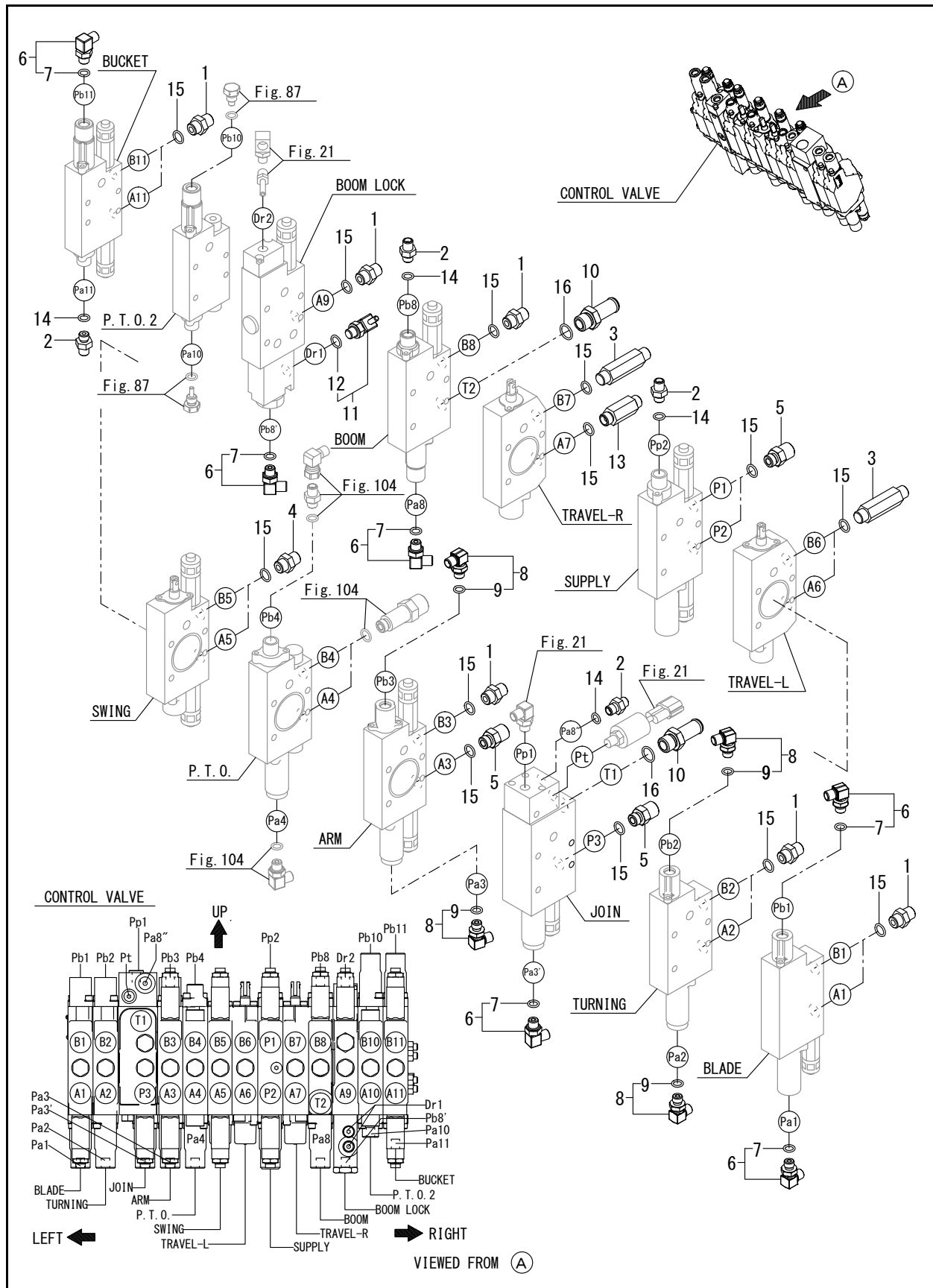


Z45 - COMPACT EXCAVATOR

FIG. 98 - HYD. OIL PIPING (FITTING : TURNING MOTOR)

Ref.	No.	Part No.	Description	Qty.
	1	50281350	JOINT	1
	2	50280905	CONNECTOR PF1/4-45	1
	3	50282607	PACKING, 11.0	1
	4	50280823	JOINT 90-3/8 ASSY	1
	5	50282471	O-RING 1B P-14.0	1
	6	50281490	NIPPLE G1/4	1
	7	50282607	PACKING, 11.0	1
	8	50283777	NIPPLE G3/8	1
	9	50282608	O RING P 14.0 HNBR	1
	10	50282608	O RING P 14.0 HNBR	1

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 99 - HYD. OIL PIPING (FITTING : CONTROL VALVE)



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Z45 - COMPACT EXCAVATOR
FIG. 99 - HYD. OIL PIPING (FITTING : CONTROL VALVE)

Ref.	No.	Part No.	Description	Qty.
	1	50281350	JOINT	9
	2	50280792	JOINT PF1/4	4
	3	50282783	ADAPTER	3
	4	50282716	CONNECTOR	2
	5	50282816	CONNECTOR	4
	6	50280813	CONNECTOR ASSY, 02FF	6
	7	50282607	PACKING, 11.0	6
	8	50281489	ELBOW,90G1/4-0.6	4
	9	50282607	PACKING, 11.0	4
	10	50283776	NIPPLE G1/2	2
	11	50281490	NIPPLE G1/4	1
	12	50282607	PACKING, 11.0	1
	13	50282692	ADAPTER 64	1
	14	50282607	PACKING, 11.0	4
	15	50282608	O RING P 14.0 HNBR	19
	16	50282609	O RING	2

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 100 - HYD. OIL PIPING (TANK-PUMP-CONTROL VALVE)

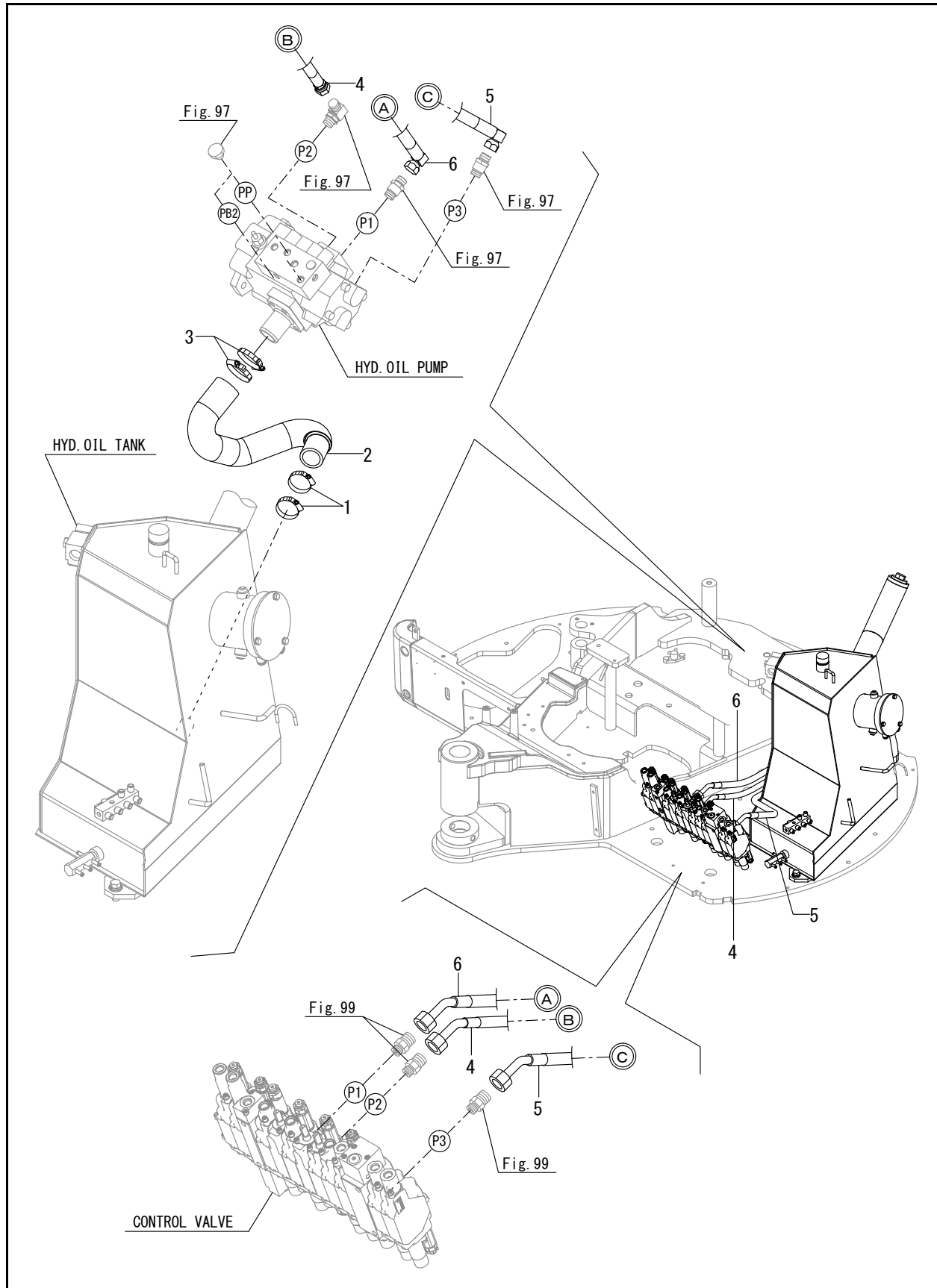
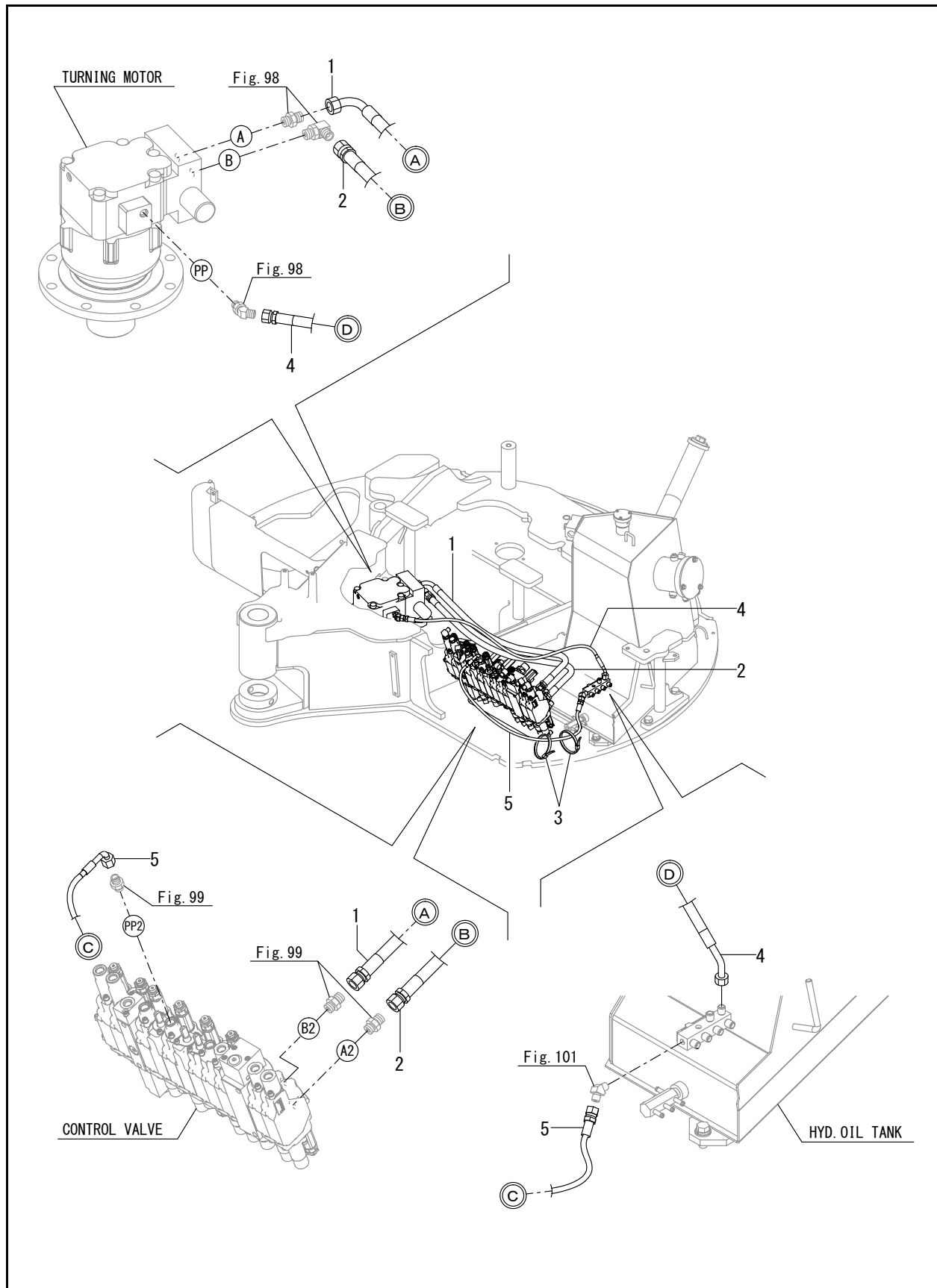


FIG. 100 - HYD. OIL PIPING (TANK-PUMP-CONTROL VALVE)

Ref.	No.	Part No.	Description	Qty.
	1	50284063	CLIP, HOSE	2
	2	50283792	HOSE	1
	3	50284064	CLIP	2
	4	50283793	HOSE	1
	5	50283794	HOSE	1
	6	50283885	HOSE	1

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 101 - HYD. OIL PIPING (VALVE-TURNING MOTOR)



Z45 - COMPACT EXCAVATOR

FIG. 101 - HYD. OIL PIPING (VALVE-TURNING MOTOR)

Ref.	No.	Part No.	Description	Qty.
	1	50283800	HOSE	1
	2	50283884	HOSE	1
	3	50282352	BAND	2
	4	50286581	HOSE	1
	5	50286582	HOSE	1

FIG. 102 - HYD. OIL PIPING (VALVE-SWIVEL-SWING CYLINDER)

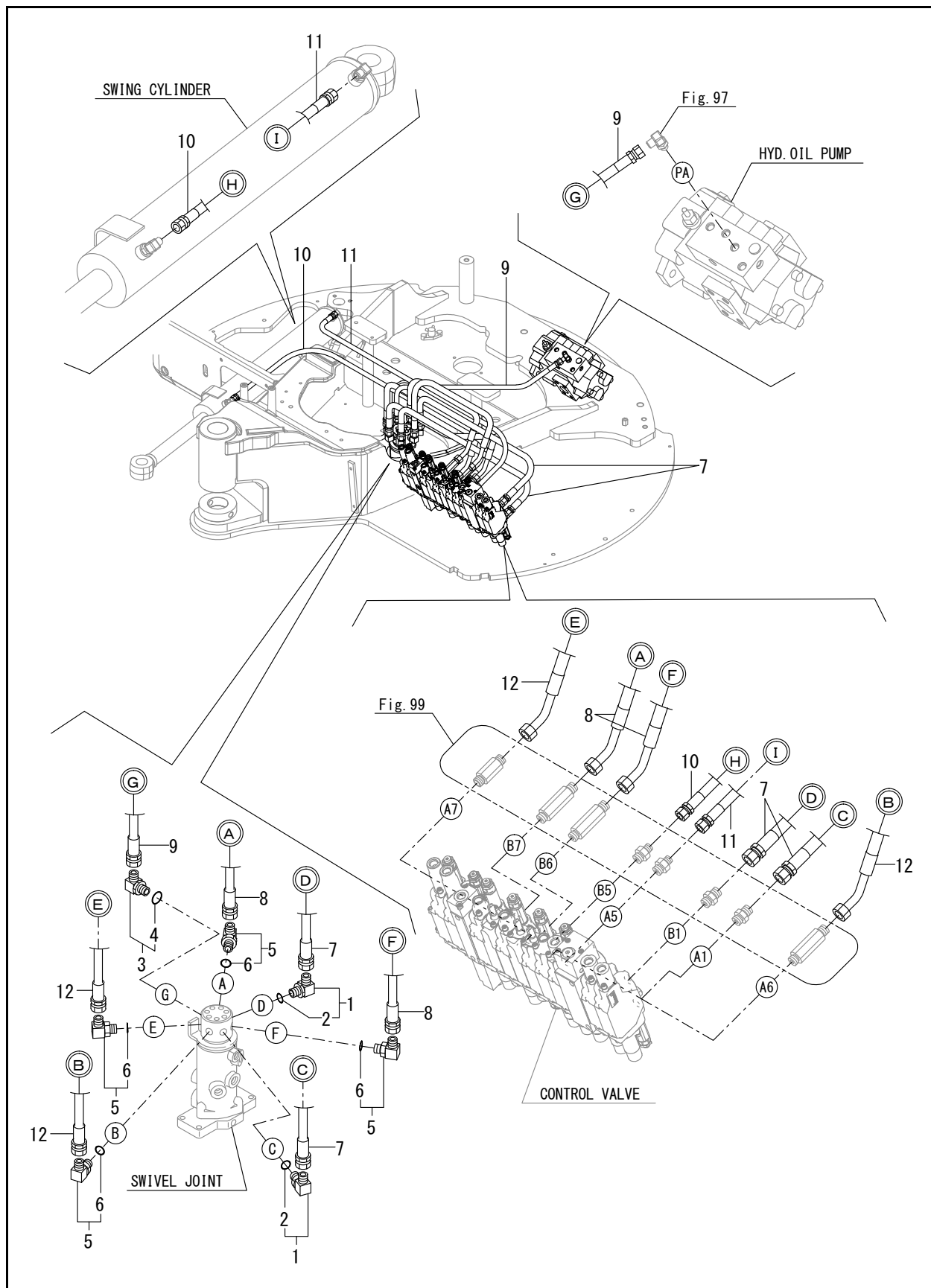


FIG. 102 - HYD. OIL PIPING (VALVE-SWIVEL-SWING CYLINDER)

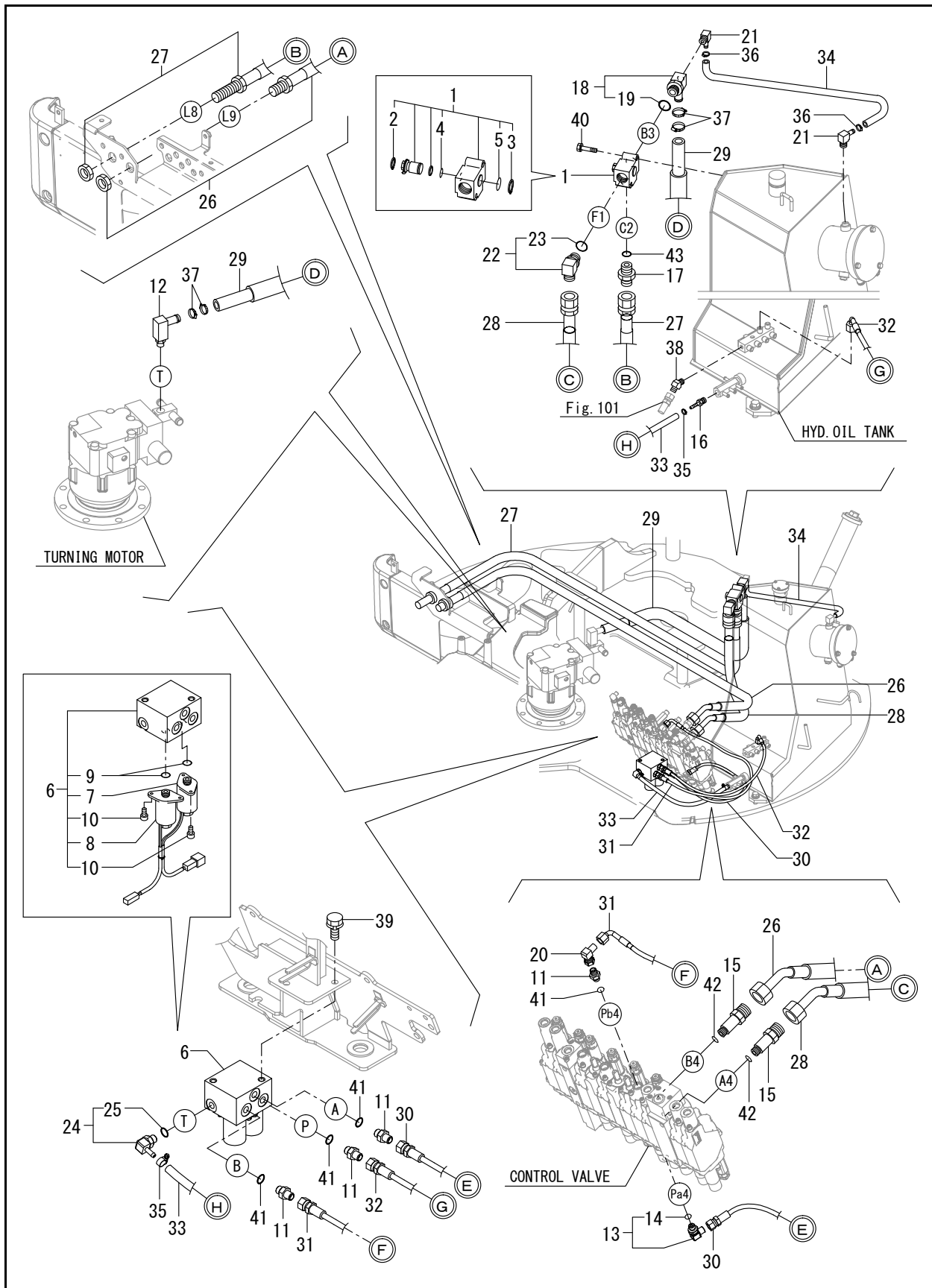
Ref.	No.	Part No.	Description	Qty.
	1	50282820	CONNECTOR	2
	2	50282607	PACKING, 11.0	2
	3	50280813	CONNECTOR ASSY, 02FF	1
	4	50282607	PACKING, 11.0	1
	5	50280823	JOINT 90-3/8 ASSY	4
	6	50282471	O-RING 1B P-14.0	4
	7	50283804	HOSE F206BB102S	2
	8	50283832	HOSE F206BE071S	2
	9	50283847	HOSE	1
	10	50283799	HOSE	1
	11	50283802	HOSE	1
	12	50283832	HOSE F206BE071S	2

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Ref.	No.	Part No.	Description	Qty.
	1	50282732	NIPPLE	1
	2	425-34918	CLAMP 13	3
	3	50282428	HOSE CLAMP 25	8
	4	50283813	HOSE	1
	5	50283814	HOSE	1
	6	50282428	HOSE CLAMP 25	4
	7	50283816	HOSE G804YY058	1
	8	425-34918	CLAMP 13	1
	9	50283811	HOSE	1
	10	50283916	HOSE	1
	11	50283818	HOSE	1
	12	50286577	HOSE	1
	13	50286588	HOSE	1
	14	425-34918	CLAMP 13	2
	15	50282428	HOSE CLAMP 25	4
	16	50282438	JOINT RGI1/4	1

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 104 - HYD. OIL PIPING (P.T.O. : TURNING FRAME)



Z45- COMPACT EXCAVATOR FIG. 104 - HYD. OIL PIPING (P.T.O. : TURNING FRAME)

Ref.	No.	Part No.	Description	Qty.
	1	50283667	VALVE ASSY,SELECOR	1
	2	50282398	CIRCLIP 21	1
	3	50282399	CIRCLIP 25S	1
	4	50282476	O-RING 1B P 21	1
	5	50282478	O-RING 1B P-25.0	1
	6	50283986	VALVE ASSY,SOL PTO	1
	7	50283987	SOLENOID	1
	8	50283988	SOLENOID	1
	9	425-34744	O-RING 1A P-16.0	2
	10	197813	BOLT M5X10	4
	11	50280792	JOINT PF1/4	4
	12	50281105	ELBOW 90 1/2	1
	13	50280813	CONNECTOR ASSY, 02FF	1
	14	50282607	PACKING, 11.0	1
	15	50282850	CONNECTOR PF3/8-3/4	2
	16	50282732	NIPPLE	1
	17	50280824	JOINT PF3/4	1
	18	50283778	ELBOW NIPPLE 90G3/8	1
	19	50282610	PACKING, 24.0	1
	20	50281352	CONNECTOR 1/4X1/4	1
	21	50280903	ELBOW	2
	22	50280898	CONNECTOR PF3/4M CMP	1
	23	50282477	O-RING 1B P-24.0	1
	24	50280923	NIPPLE	1
	25	50282470	O-RING 1B P-11.0	1
	26	50283801	HOSE	1
	27	50283806	HOSE	1
	28	50283807	HOSE	1
	29	50283826	HOSE	1
	30	50286563	HOSE	1
	31	50286564	HOSE	1
	32	50286565	HOSE	1
	33	50286566	HOSE	1
	34	50283857	HOSE	1
	35	425-34918	CLAMP 13	2
	36	50282426	HOSE CLAMP 16	2
	37	50282428	HOSE CLAMP 25	4
	38	50282443	JOINT 45RG1/4	1
	39	50282515	BOLT W/WASHER M10X20	2
	40	50282521	BOLT M10X 50	2
	41	50282607	PACKING, 11.0	4
	42	50282608	O RING P 14.0 HNBR	2
	43	50282610	PACKING, 24.0	1

FIG. 105 - HYD. OIL PIPING (CONTROL VALVE-FRAME END)

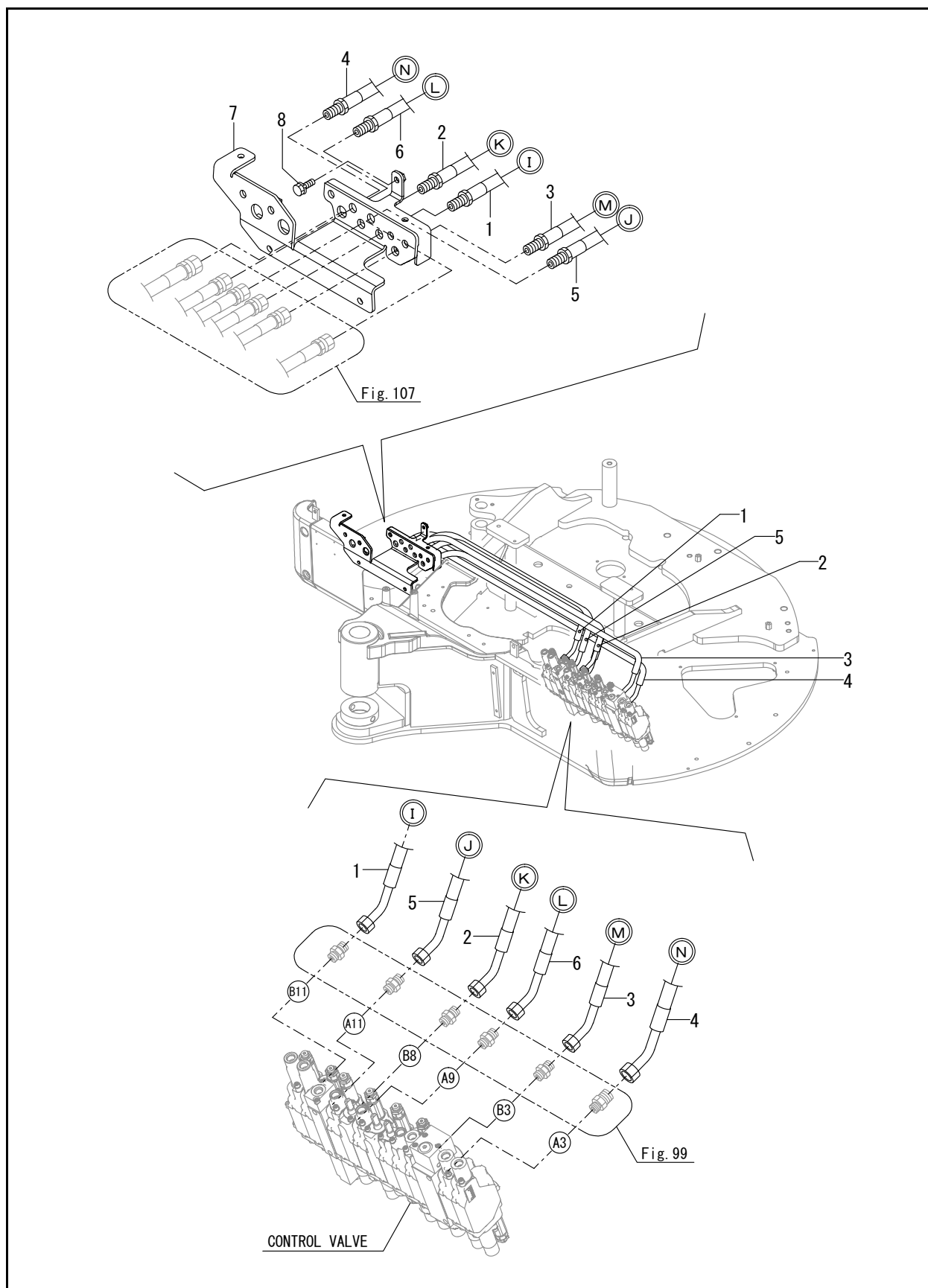


FIG. 105 - HYD. OIL PIPING (CONTROL VALVE-FRAME END)

Ref.	No.	Part No.	Description	Qty.
	1	50283795	HOSE	1
	2	50283796	HOSE	1
	3	50283797	HOSE	1
	4	50283798	HOSE	1
	5	50283882	HOSE	1
	6	50283883	HOSE	1
	7	50283891	COVER ASSY,HOSE	1
	8	50282516	BOLT W/WASHER M10X25	2

FIG. 106 - HYD. OIL PIPING (TRUCK FRAME)

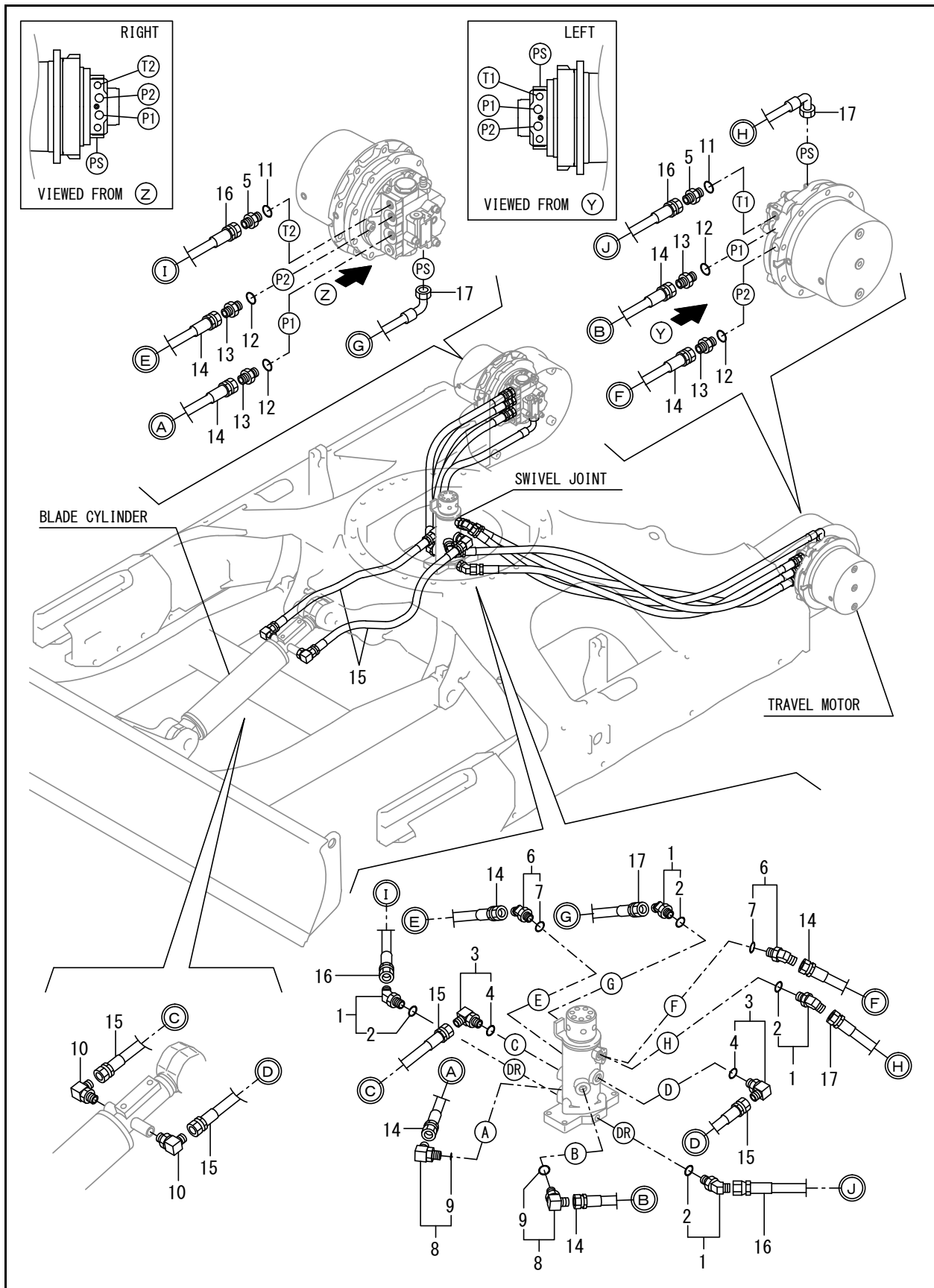
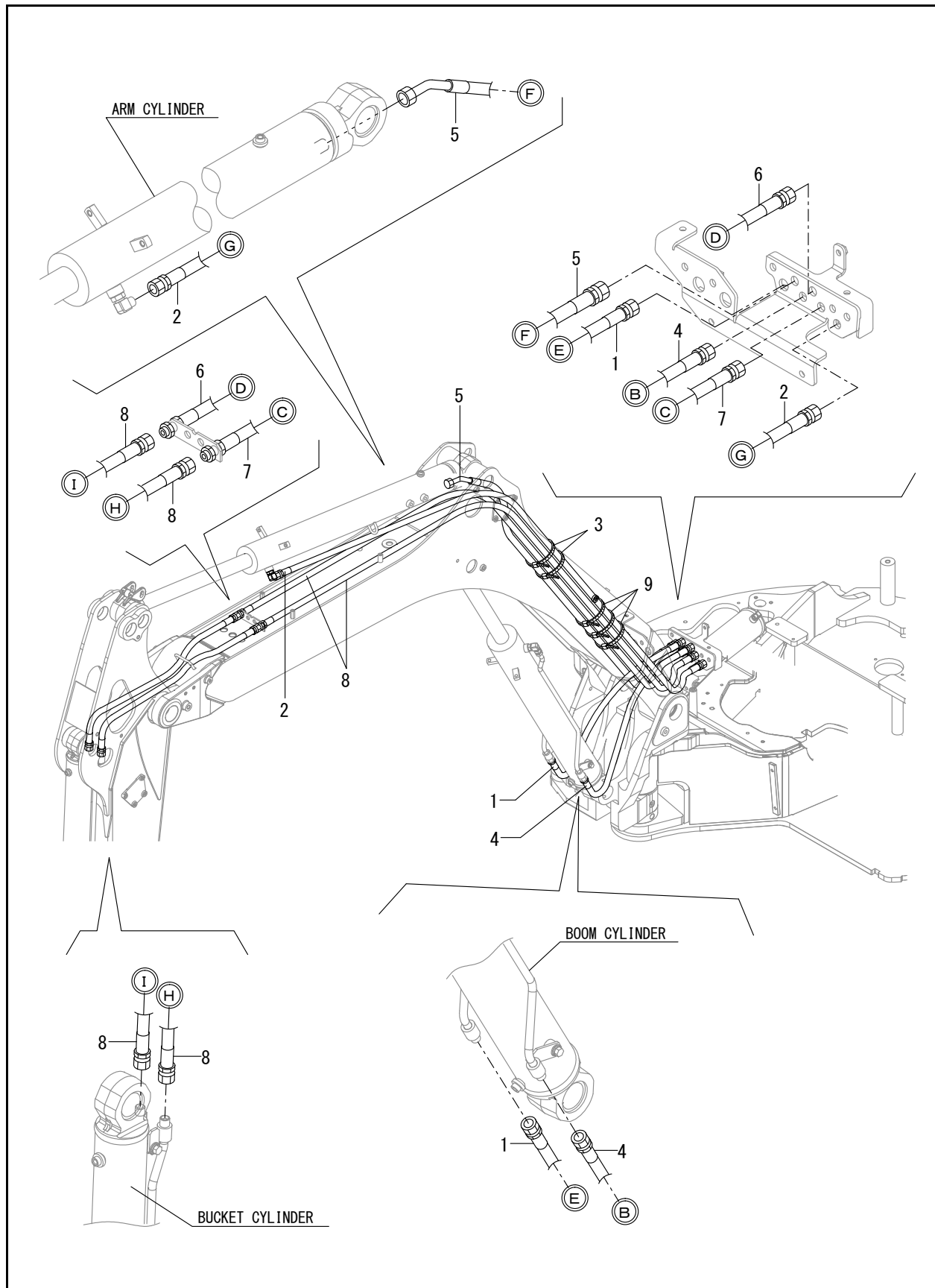


FIG. 106 - HYD. OIL PIPING (TRUCK FRAME)

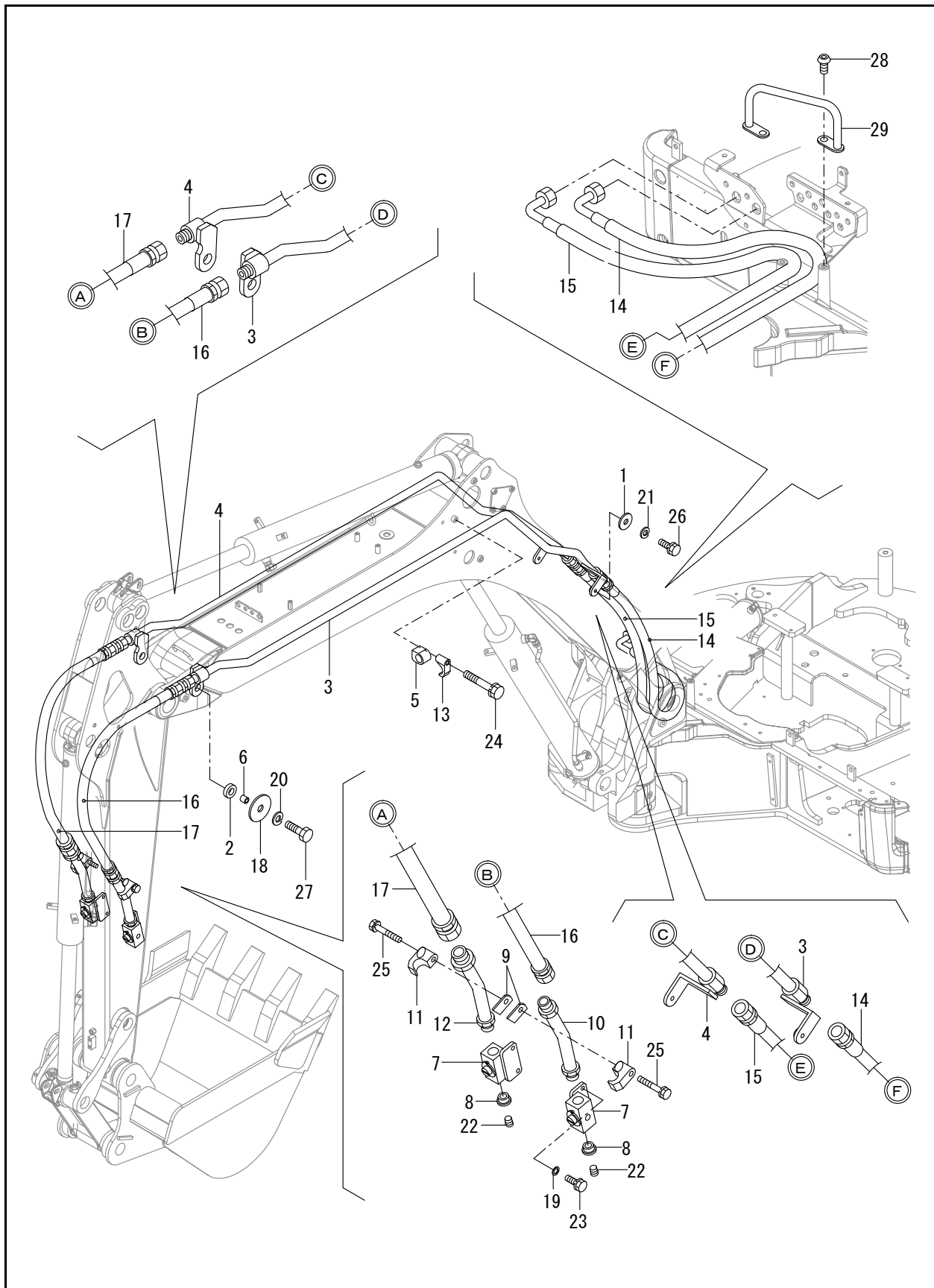
Ref.	No.	Part No.	Description	Qty.
	1	50280905	CONNECTOR PF1/4-45	4
	2	50282607	PACKING, 11.0	4
	3	50282820	CONNECTOR	2
	4	50282607	PACKING, 11.0	2
	5	50282716	CONNECTOR	2
	6	50283270	ADJUST ELBOW 45	2
	7	50282471	O-RING 1B P-14.0	2
	8	50280823	JOINT 90-3/8 ASSY	2
	9	50282471	O-RING 1B P-14.0	2
	10	50284067	JOINT 90RGI 3/8	2
	11	50282608	O RING P 14.0 HNBR	2
	12	50282609	O RING	4
	13	50282619	CONNECTOR PF1/2-3/8	4
	14	50283180	HOSE	4
	15	50283181	HOSE	2
	16	50283897	HOSE	2
	17	50283898	HOSE	2

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FIG. 107 - HYD. OIL PIPING (BOOM)



Ref.	No.	Part No.	Description	Qty.
	1	50283863	HOSE H206BB143W	1
	2	50283869	HOSE H206BB333K	1
	3	50282838	CLIP 400,HOSE	2
	4	50283865	HOSE H206BB143W	1
	5	50283867	HOSE H208BL248K	1
	6	50283871	HOSE H206BX341K	1
	7	50283873	HOSE H206BX344K	1
	8	50283874	HOSE	2
	9	50280791	CLAMP 350	3

FIG. 108 - HYD. OIL PIPING (P.T.O. : BOOM-ARM)



Ref.	No.	Part No.	Description	Qty.
	1	50282741	WASHER, 32X12.5	2
	2	50283915	PATT	2
	3	50286295	PTO TUBE ASSY	1
	4	50286297	PTO TUBE ASSY	1
	5	50283786	CLAMP PTO	2
	6	50283787	COLLER 12.2X20X20	2
	7	50286175	STOP VALVE	2
	8	50282790	BUSHING	2
	9	50286185	PLATE	2
	10	50286369	PTO TUBE ASSY	1
	11	50286167	CLAMP, 3/4	2
	12	50286371	PTO TUBE ASSY	1
	13	50286171	CLAMP	2
	14	50283809	HOSE G112BC149W	1
	15	50283810	HOSE	1
	16	50283972	HOSE G112BB097W	1
	17	50283974	HOSE G116BB100W	1
	18	50282739	SPACER	2
	19	138111	WASHER/POLISHED	4
	20	425-34902	SPRING WASHER 12	2
	21	425-34902	SPRING WASHER 12	2
	22	50284069	PLUG PT1/2,SCREW	2
	23	50282516	BOLT W/WASHER M10X25	4
	24	50282528	BOLT M12X 60	2
	25	50282529	BOLT 12X70 W/SP.WSHR	2
	26	50284108	BOLT M12 X 30	2
	27	50284109	BOLT 10.9 M12 X 4	2
	28	50281073	BOLT M 10X20	2
	29	50283890	GUIDE, ASSY, HOSE	1

FIG. 110 - HYD. OIL PIPING (QUICK COUPLER)

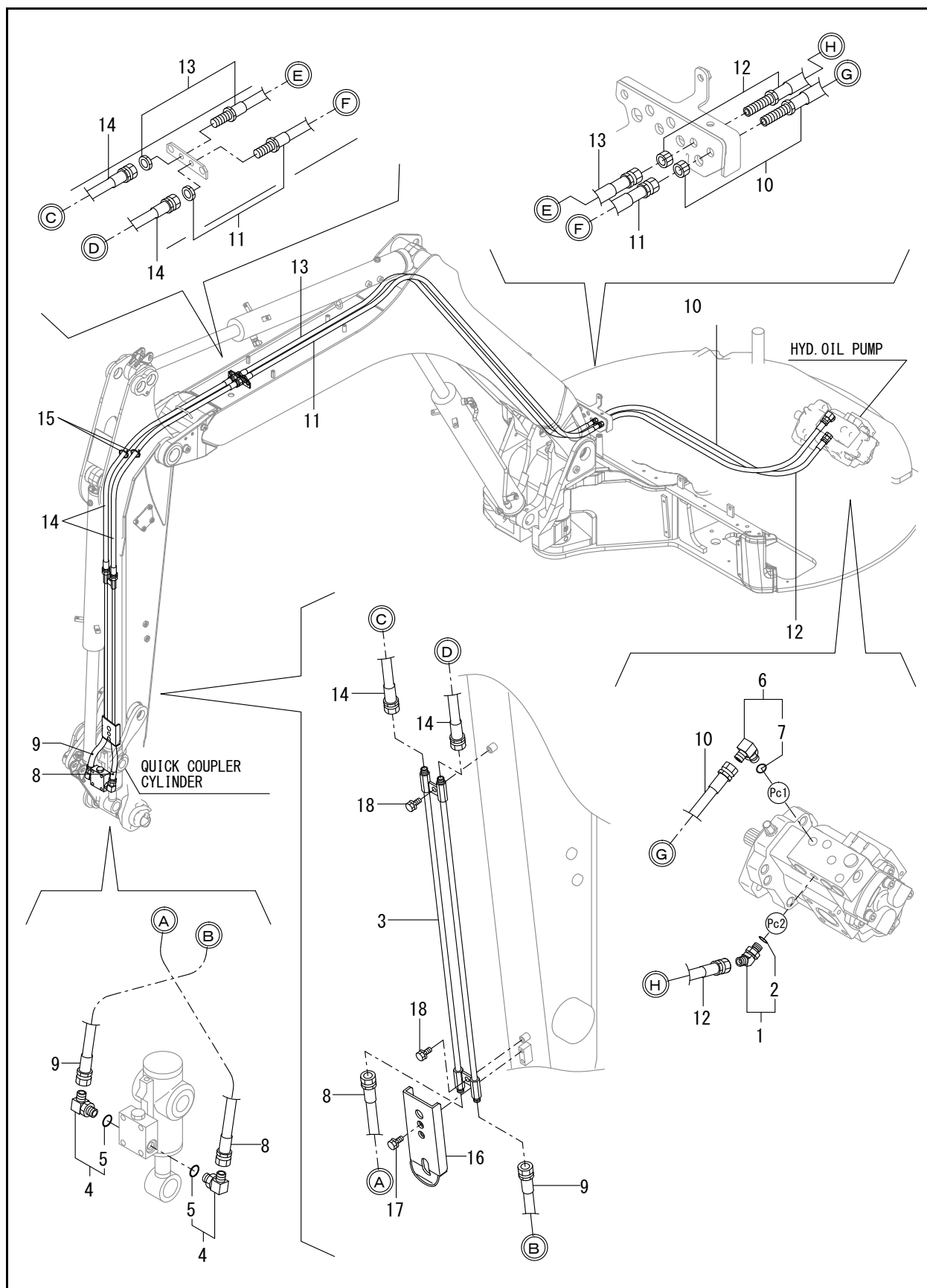
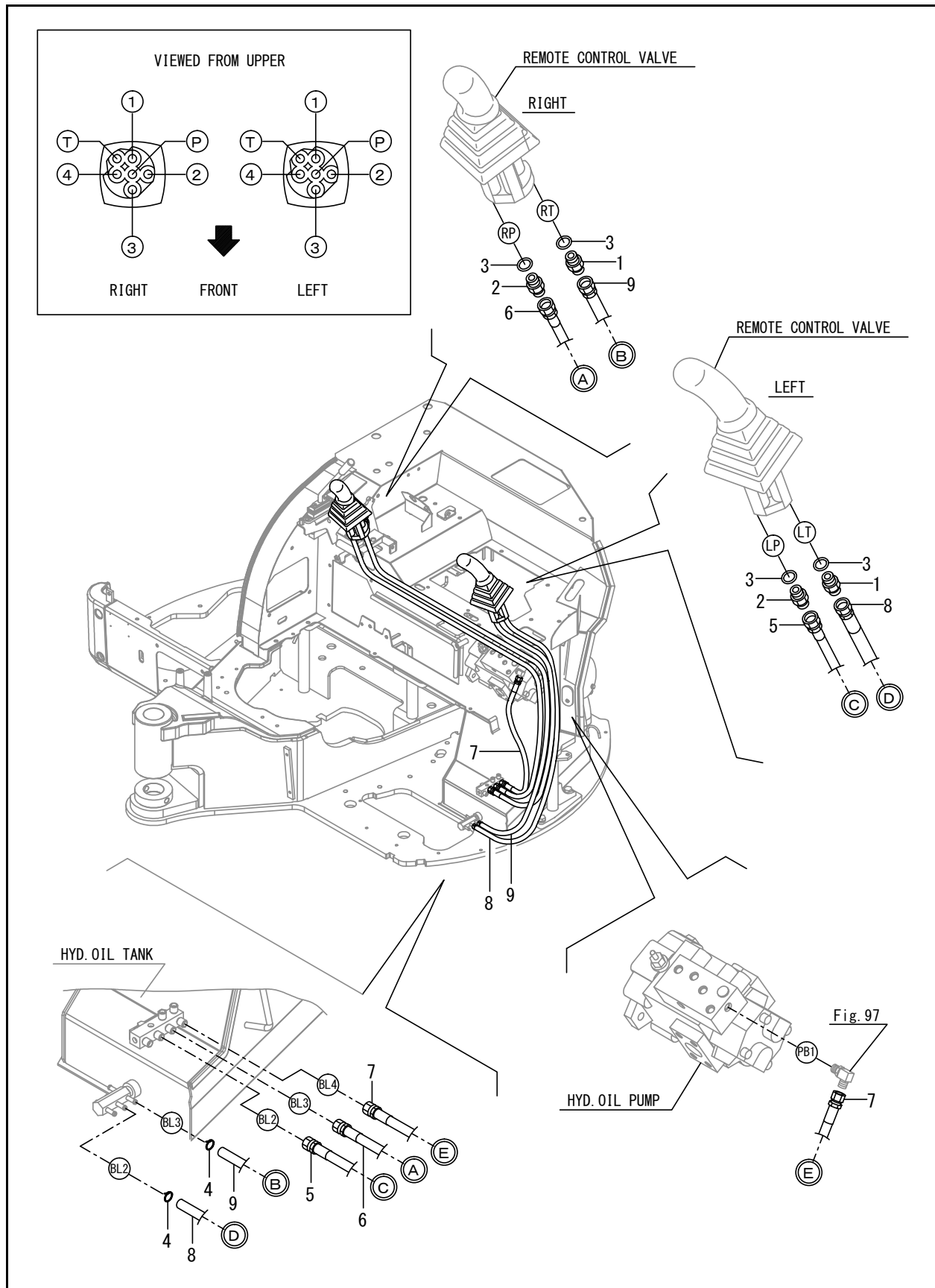


FIG. 110 - HYD. OIL PIPING (QUICK COUPLER)

Ref.	No.	Part No.	Description	Qty.
	1	50280905	CONNECTOR PF1/4-45	1
	2	50282607	PACKING, 11.0	1
	3	50286235	HITCH TUBE	1
	4	50283278	ELBOW PF1/4-PF1/4	2
	5	50282470	O-RING 1B P-11.0	2
	6	50280813	CONNECTOR ASSY, 02FF	1
	7	50282607	PACKING, 11.0	1
	8	50281377	HOSE	1
	9	50283279	HOSE	1
	10	50283823	HOSE	1
	11	50283825	HOSE H204BX344K	1
	12	50283856	HOSE	1
	13	50283893	HOSE H204BX343K	1
	14	50283894	HOSE	2
	15	50282709	CLAMP B	2
	16	50286237	COVER ASSY	1
	17	50282506	BOLT W/WASHER M8X16	2
	18	50282515	BOLT W/WASHER M10X20	2

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FIG. 112 - CONTROL PIPING (PUMP-VALVE-RETURN)



Z45 - COMPACT EXCAVATOR

FIG. 112 - CONTROL PIPING (PUMP-VALVE-RETURN)

Ref.	No.	Part No.	Description	Qty.
	1	50280792	JOINT PF1/4	2
	2	50281106	CONNECTOR PF1/4	2
	3	50282607	PACKING, 11.0	4
	4	425-34918	CLAMP 13	2
	5	50283842	HOSE	1
	6	50283843	HOSE	1
	7	50283844	HOSE	1
	8	50283851	HOSE	1
	9	50283852	HOSE	1

FIG. 113 - CONTROL PIPING (2-WAY VALVE : 1)

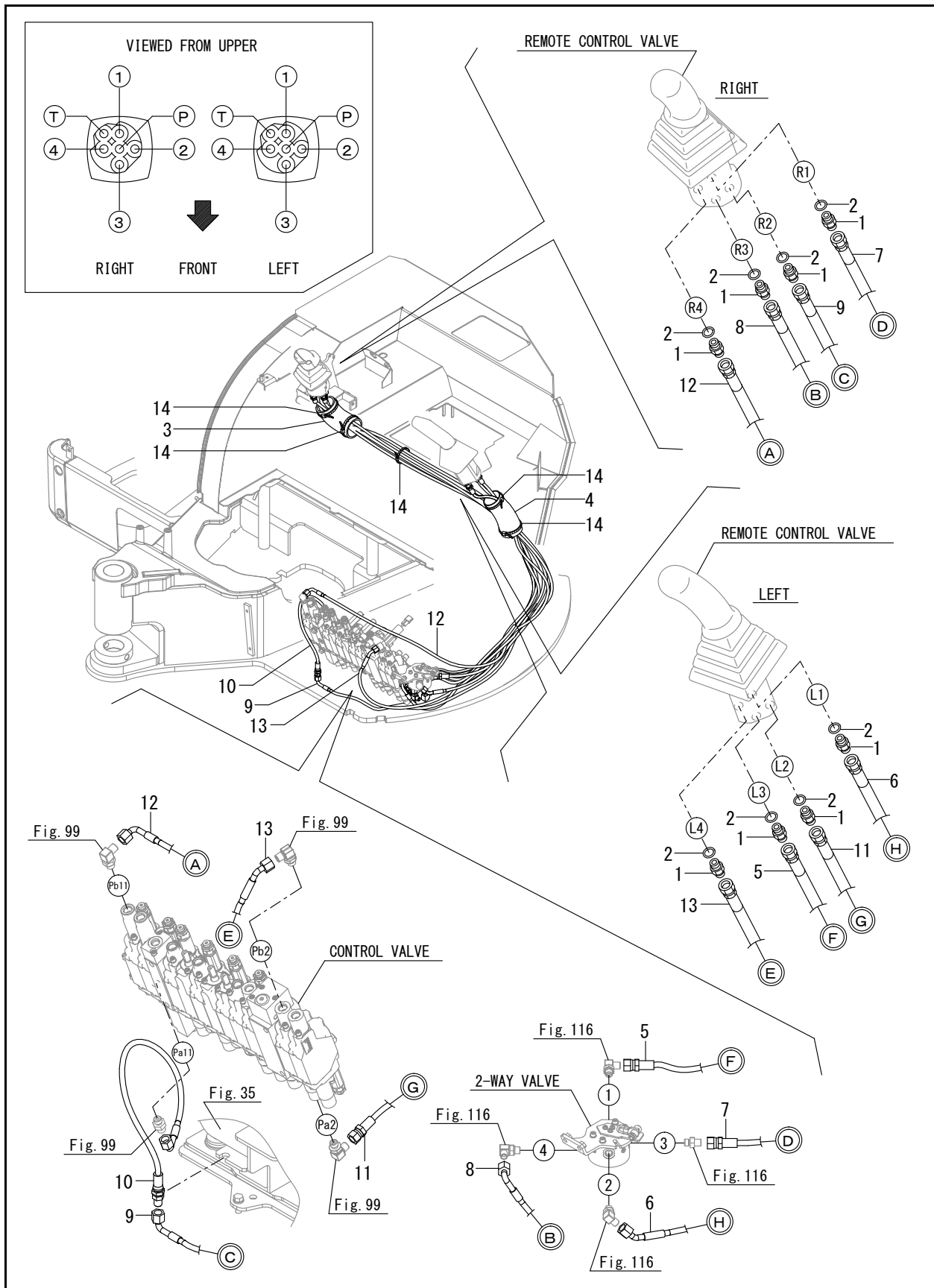
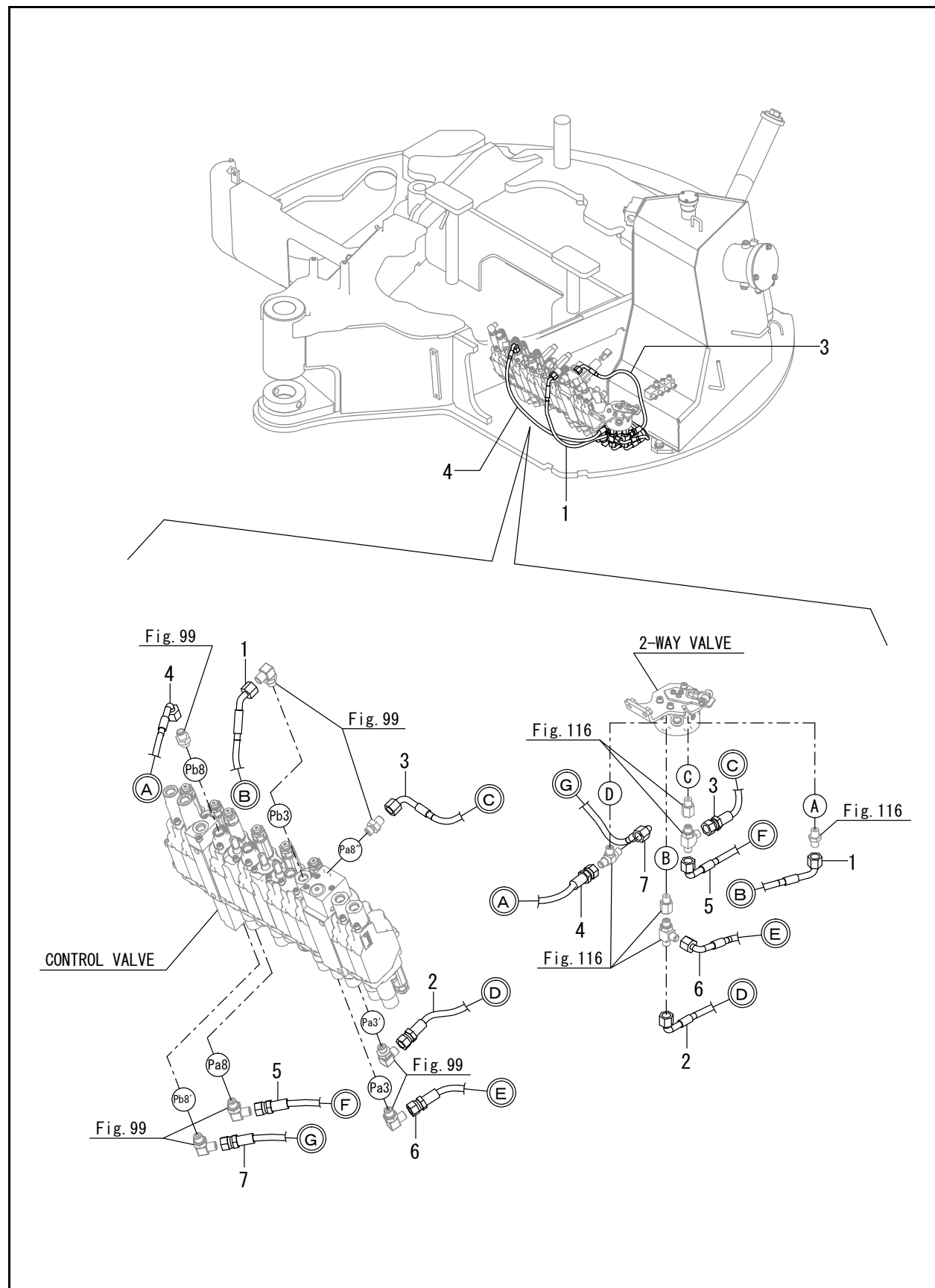


FIG. 113 - CONTROL PIPING (2-WAY VALVE : 1)

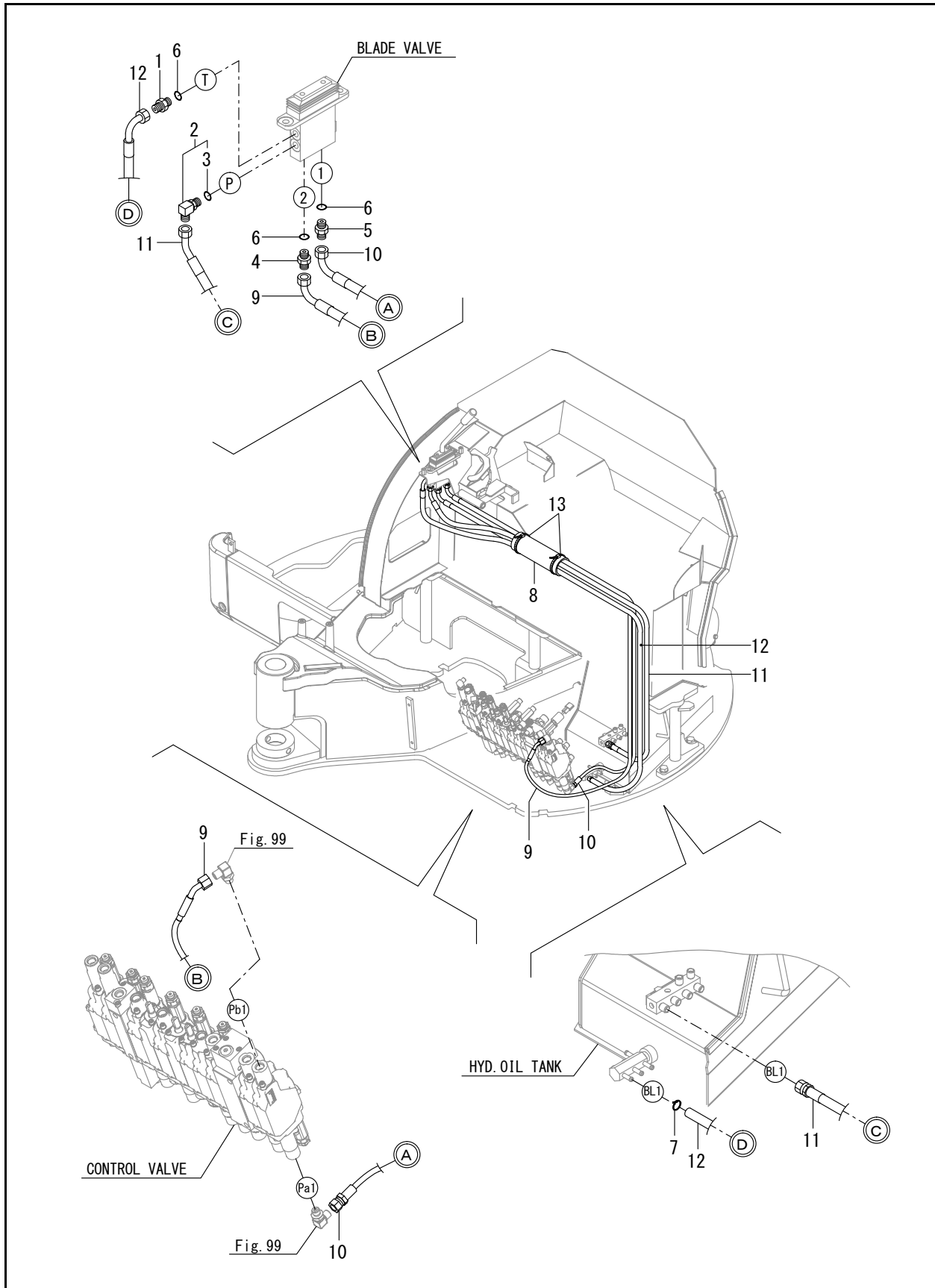
Ref.	No.	Part No.	Description	Qty.
	1	50280792	JOINT PF1/4	8
	2	50282607	PACKING, 11.0	8
	3	50282972	SOUND SHIELD,HOSE	1
	4	50283069	SOUND SHIELD,HOSE	1
	5	50286573	HOSE	1
	6	50286574	HOSE	1
	7	50286575	HOSE	1
	8	50286576	HOSE	1
	9	50286578	HOSE	1
	10	50286579	HOSE	1
	11	50286584	HOSE	1
	12	50286585	HOSE	1
	13	50286587	HOSE	1
	14	50282709	CLAMP B	5

FIG. 114 - CONTROL PIPING (2-WAY VALVE : 2)



Ref.	No.	Part No.	Description	Qty.
	1	50286567	HOSE	1
	2	50286568	HOSE	1
	3	50286569	HOSE	1
	4	50286570	HOSE	1
	5	50286571	HOSE	1
	6	50286572	HOSE	1
	7	50286586	HOSE	1

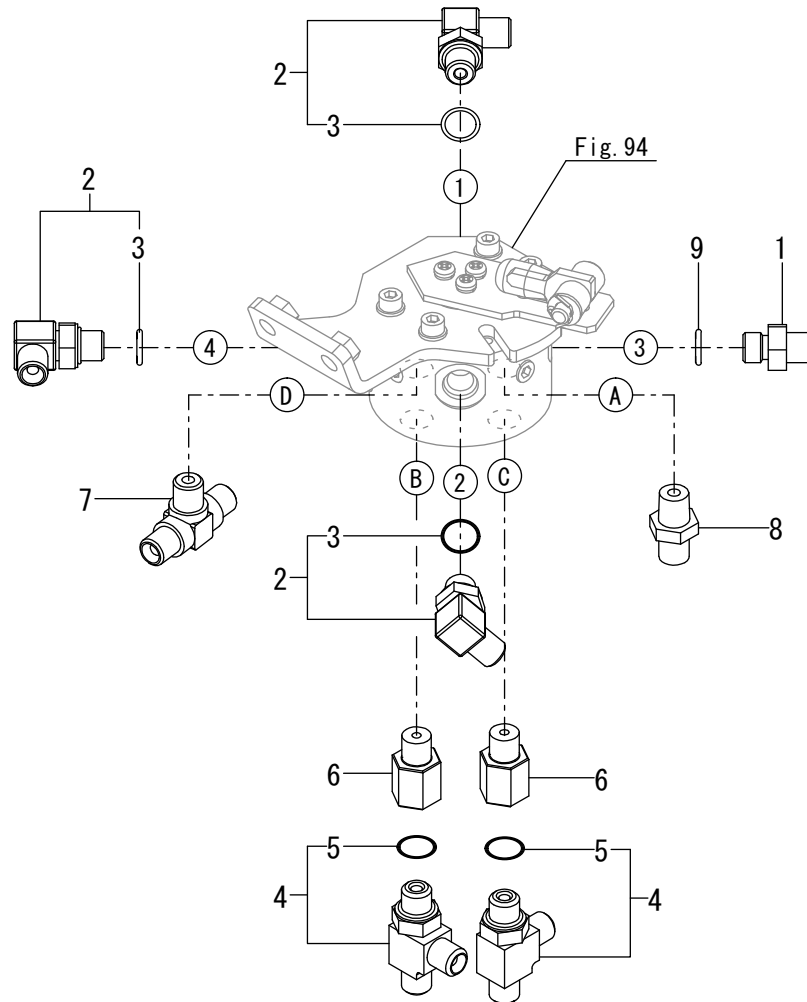
Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 115 - CONTROL PIPING (VALVE-BLADE VALVE)



Z45 - COMPACT EXCAVATOR
FIG. 115 - CONTROL PIPING (VALVE-BLADE VALVE)

Ref.	No.	Part No.	Description	Qty.
	1	50280792	JOINT PF1/4	1
	2	50283278	ELBOW PF1/4-PF1/4	1
	3	50282470	O-RING 1B P-11.0	1
	4	50281488	CONNECTOR G1/4-1.0	1
	5	50280890	JOINT PF1/4-0.7	1
	6	50282607	PACKING, 11.0	3
	7	425-34918	CLAMP 13	1
	8	50283069	SOUND SHIELD,HOSE	1
	9	50286580	HOSE	1
	10	50286583	HOSE	1
	11	50283880	HOSE	1
	12	50283881	HOSE	1
	13	50282709	CLAMP B	2

Z45 - COMPACT EXCAVATOR <http://www.truckmanualshub.com/>
FIG. 116 - CONTROL PIPING (2-WAY VALVE : FITTING)

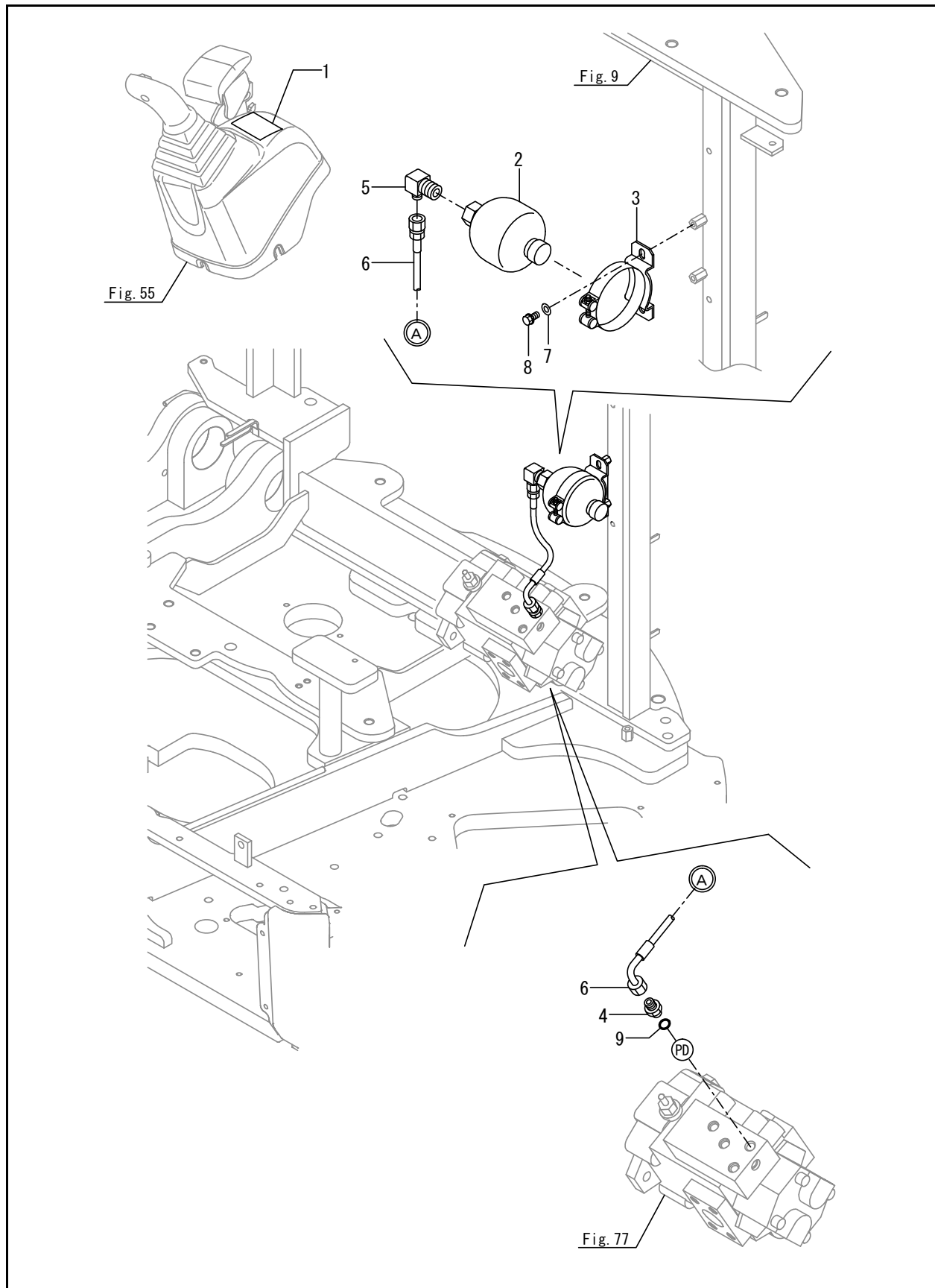


Z45 - COMPACT EXCAVATOR

FIG. 116 - CONTROL PIPING (2-WAY VALVE : FITTING)

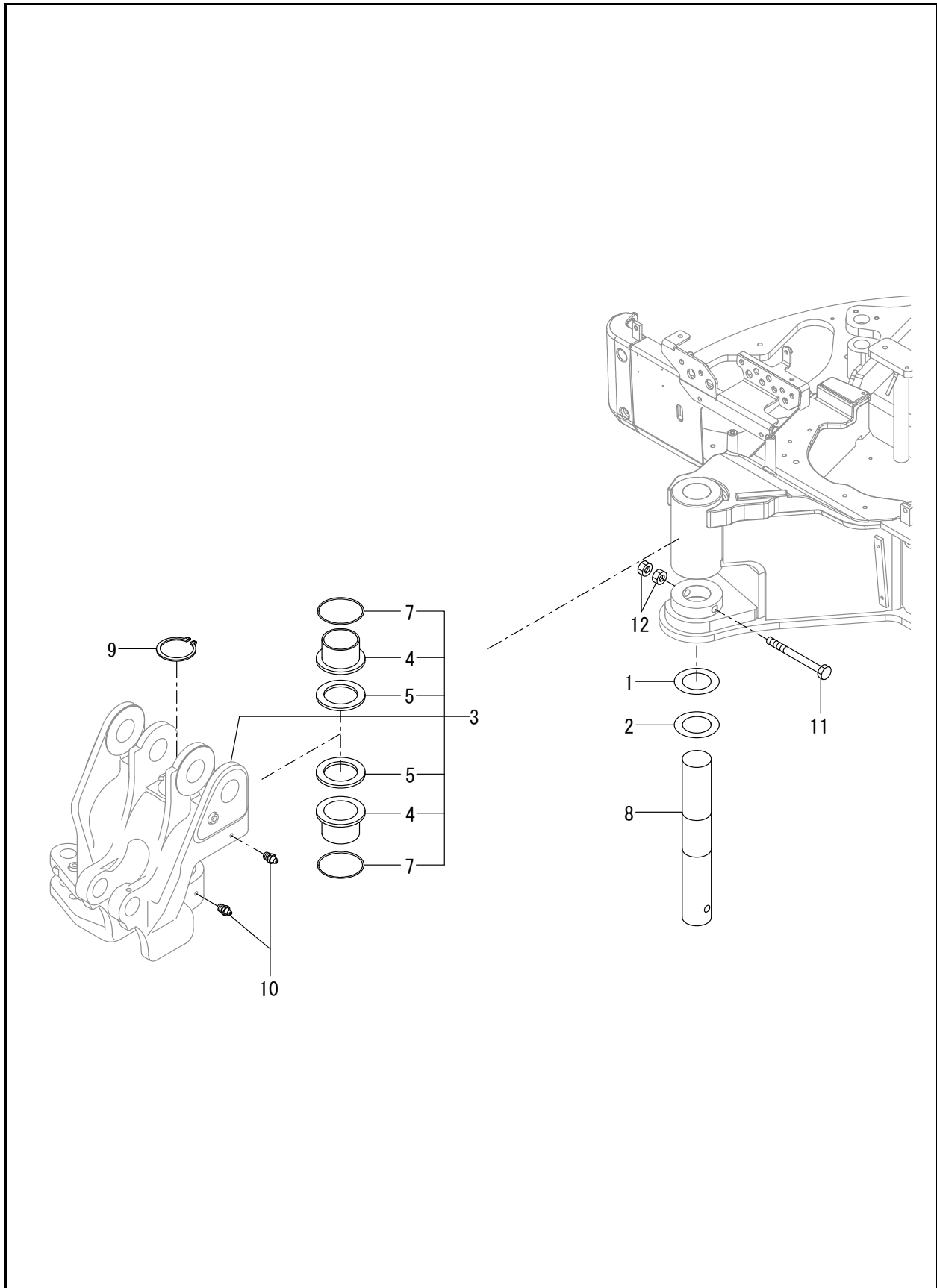
Ref.	No.	Part No.	Description	Qty.
	1	50280792	JOINT PF1/4	1
	2	50280813	CONNECTOR ASSY, 02FF	3
	3	50282607	PACKING, 11.0	3
	4	50280875	JOINT 3-1/4 ASSY	2
	5	50282607	PACKING, 11.0	2
	6	50286562	CONNECTOR	2
	7	50280876	CONNECTOR 3-1/4	1
	8	50282438	JOINT RG11/4	1
	9	50282607	PACKING, 11.0	1

FIG. 117 - ACCUMULATOR

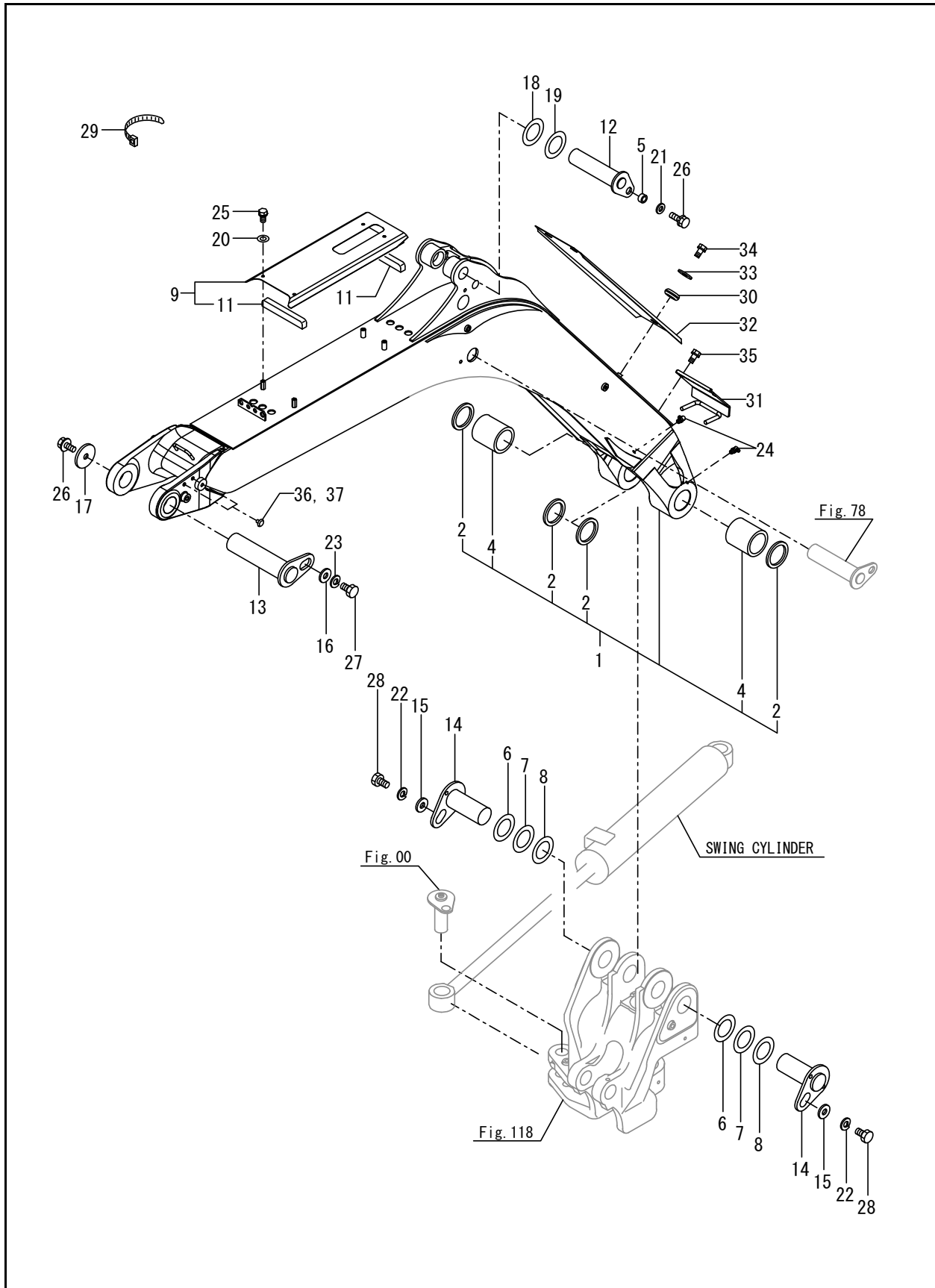


Ref.	No.	Part No.	Description	Qty.
	1	50283362	LABEL,PTO EX	1
	2	50281200	ACCUMULATOR	1
	3	50281201	CLAMP	1
	4	50280792	JOINT PF1/4	1
	5	50281206	CONNECTOR	1
	6	50283182	HOSE	1
	7	50282380	WASHER 8, POLISHED	2
	8	50282506	BOLT W/WASHER M8X16	2
	9	50282607	PACKING, 11.0	1

FIG. 118 - BOOM BRACKET

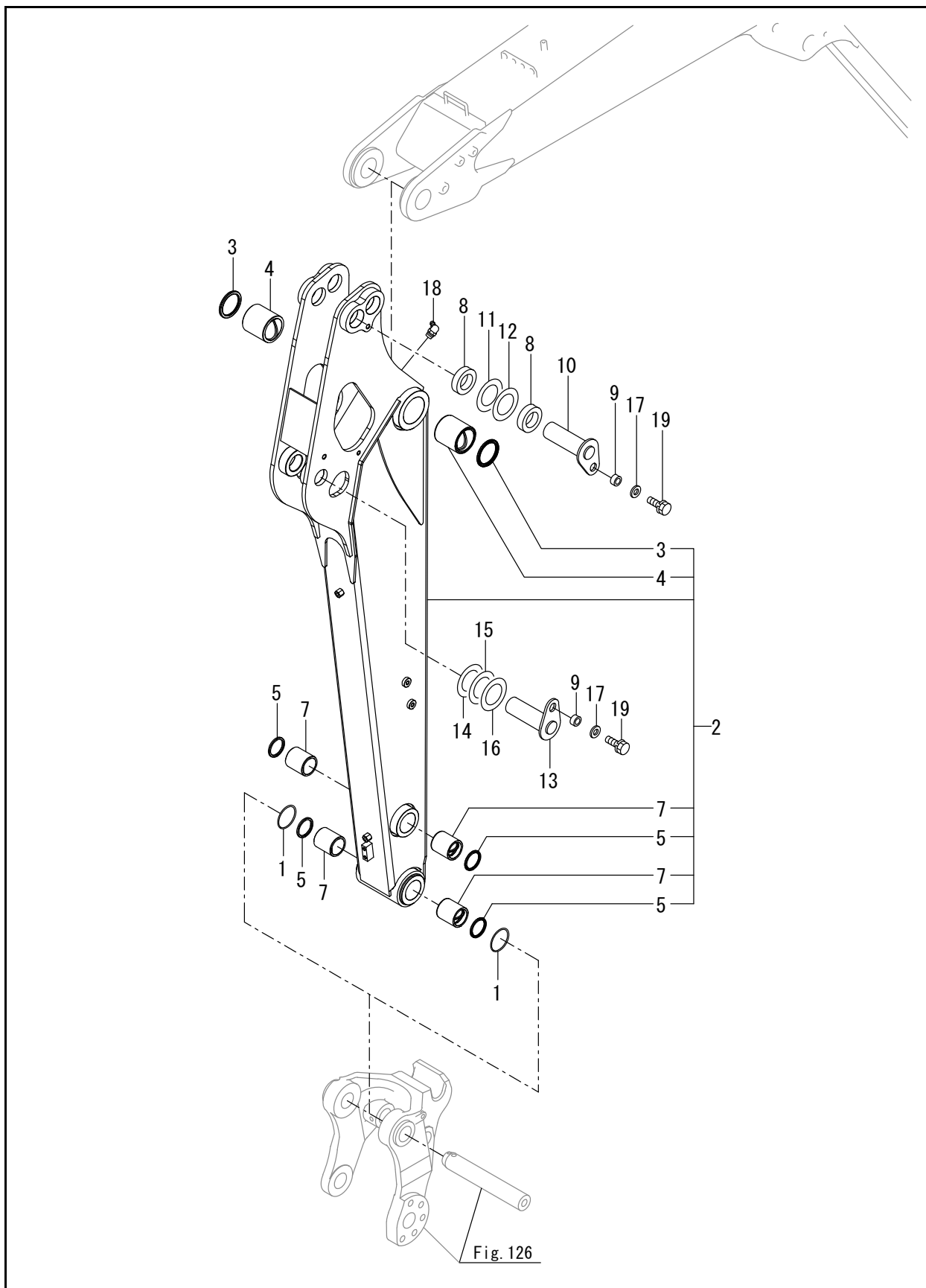


Ref.	No.	Part No.	Description	Qty.
	1	50280915	SHIM	1
	2	50280916	SHIM	1
	3	50286205	BOOM BRACKET	1
	4	50282807	BUSHING 70X85	2
	5	50282808	SEAL, DUST	2
	7	186610	O-RING 1A G70.0 NBR	2
	8	50283197	PIN, 70X466	1
	9	50282404	CIRCLIP 70	1
	10	50282497	NIPPLE PT1/8,GREASE	2
	11	50284111	BOLT 10.9 M16 X 170	1
	12	50282599	NUT M16	2



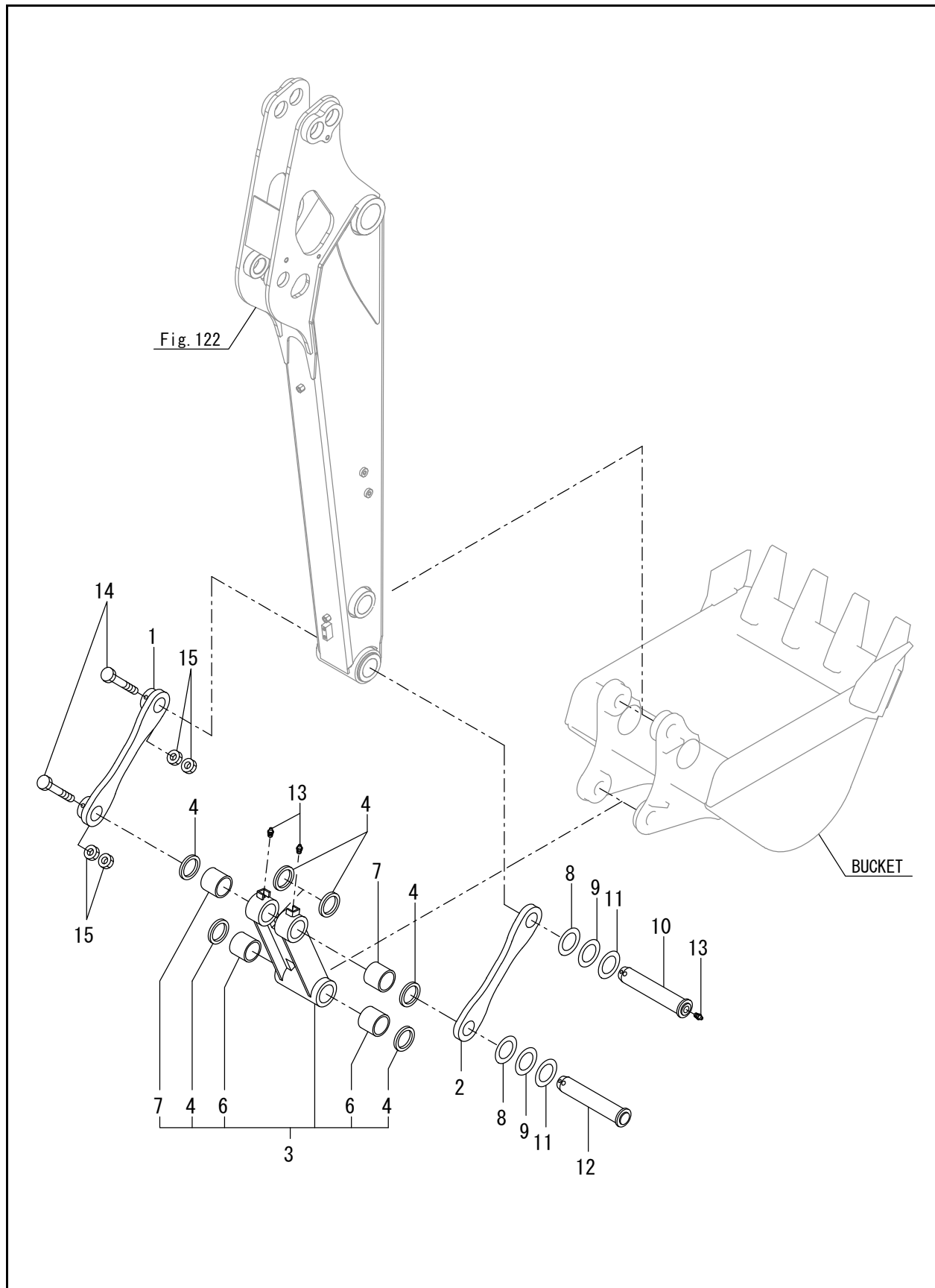
Ref. No.	Part No.	Description	Qty.
1	50286373	BOOM ASSY (use with labels 38A, 38B, 38C, 38D)	1
2	50280749	SEAL 60 X 75 X 5	4
4	50283904	BUSHING 60X75	2
5	50280892	SPACER	2
6	50283183	SHIM	2
7	50283184	SHIM	2
8	50283185	SHIM	2
9	50286379	BOOM COVER	1
11	50286554	PAD	2
12	50283899	PIN 50 X 225 CMP	1
13	50283900	PIN ASSY, 60X255	1
14	50283903	PIN ASSY, 60X142	2
15	50280991	WASHER	2
16	50280991	WASHER	1
17	50282752	WASHER	1
18	50280899	SHIM 50X90X0.5	2
19	50280900	SHIM 50X90X1.2	2
20	50282380	WASHER 8, POLISHED	4
21	50282388	WASHER 12	1
22	188712	SPRING/WASHER 14	2
23	188712	SPRING/WASHER 14	1
24	50282497	NIPPLE PT1/8, GREASE	2
25	50282507	BOLT W/WASHER M8X20	4
26	50284101	BOLT M12 X 25	3
27	50282566	BOLT M14X 25 PLATED	1
28	50282567	BOLT M14X 35 PLATED	2
29	50282352	BAND	1
30	50282720	GROMMET 16	3
31	50286299	HOSE GUIDE	1
32	50286377	BOOM COVER ASSY	1
33	186593	WASHER 8	3
34	50282506	BOLT W/WASHER M8X16	3
35	50282519	BOLT M10X 40	2
36	50280920	TREE CLIP	4
37	50280920	TREE CLIP	2
38A	50281177	LABEL, SAND US (see Page 4, Page 6)	1
38B	50281178	LABEL, WARNING HITCH (see Page 4, Page 6)	1
38C	50281030	LABEL, STEERING US (see Page 4, Page 6)	1
38D	50282884	LABEL, BOOM US (see Page 4, Page 6)	2

FIG. 122 - ARM



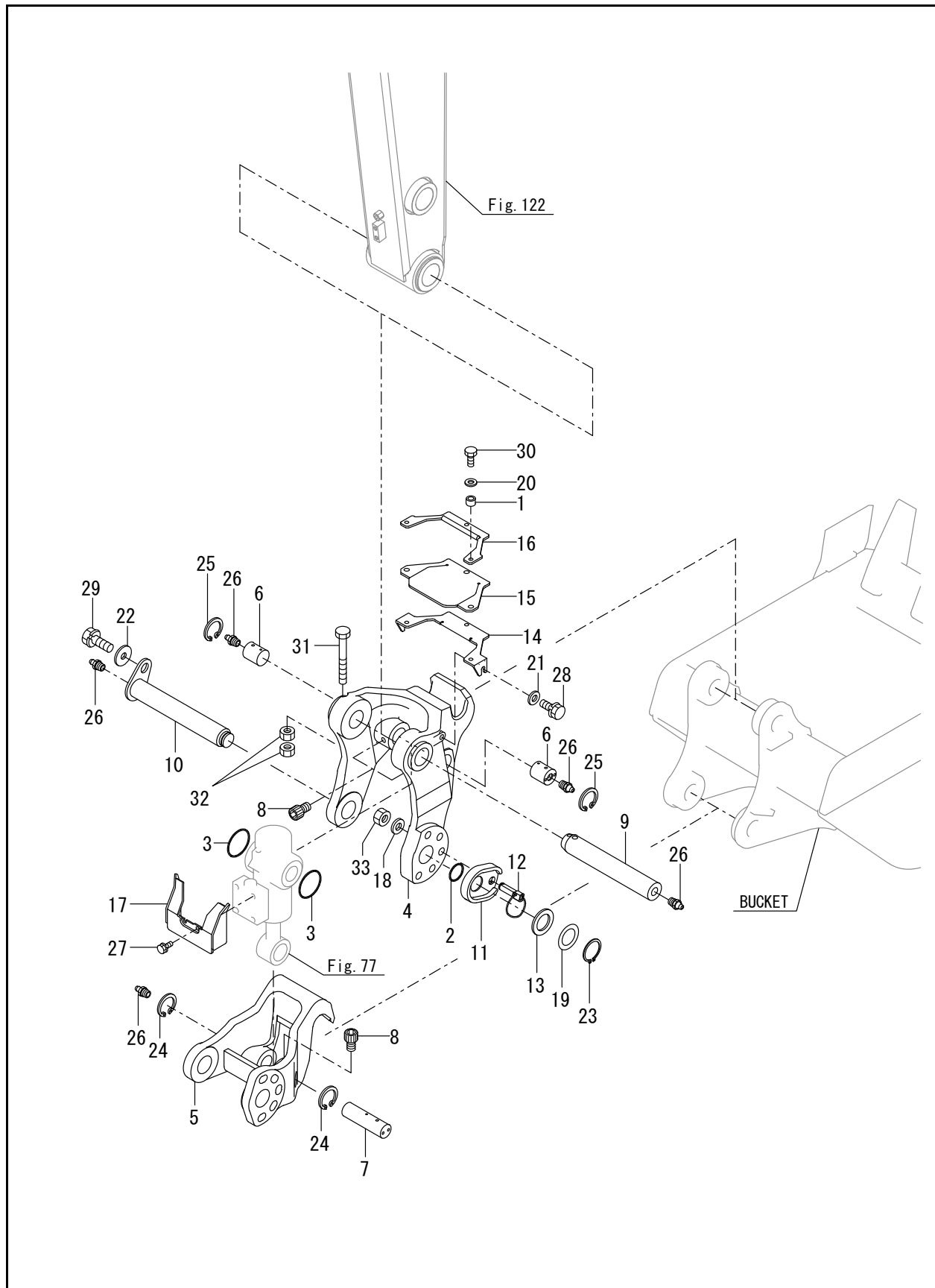
Ref. No.	Part No.	Description	Qty.
1	50282718	O-RING 81X8	2
2	50286375	ARM ASSY (use with labels 20A, 20B)	1
3	50280749	SEAL 60 X 75 X 5	2
4	50282904	BUSHING 60X75	2
5	50282817	SEAL 45X55X4, DUST	4
7	50282687	BUSH, PIN	4
8	50283914	COLLAR	2
9	50280892	SPACER	2
10	50283262	PIN ASSY,50X186	1
11	50280899	SHIM 50X90X0.5	1
12	50280900	SHIM 50X90X1.2	1
13	50283198	PIN ASSY, 45X138	1
14	50282809	SHIM 45X1.2	1
15	50282810	SHIM 45X80X1.2	1
16	50282811	SHIM 45X80X1.6	1
17	50282388	WASHER 12	2
18	50282498	NIPPLE B,GREASE	1
19	50284101	BOLT M12 X 25	2
20A	50281176	LABEL, FINGER US (see Page 4, Page 6)	1
20B	50281181	LABEL,LOCK PIN(US) (see Page 4, Page 6)	1

FIG. 124 - BUCKET ARM & LINK



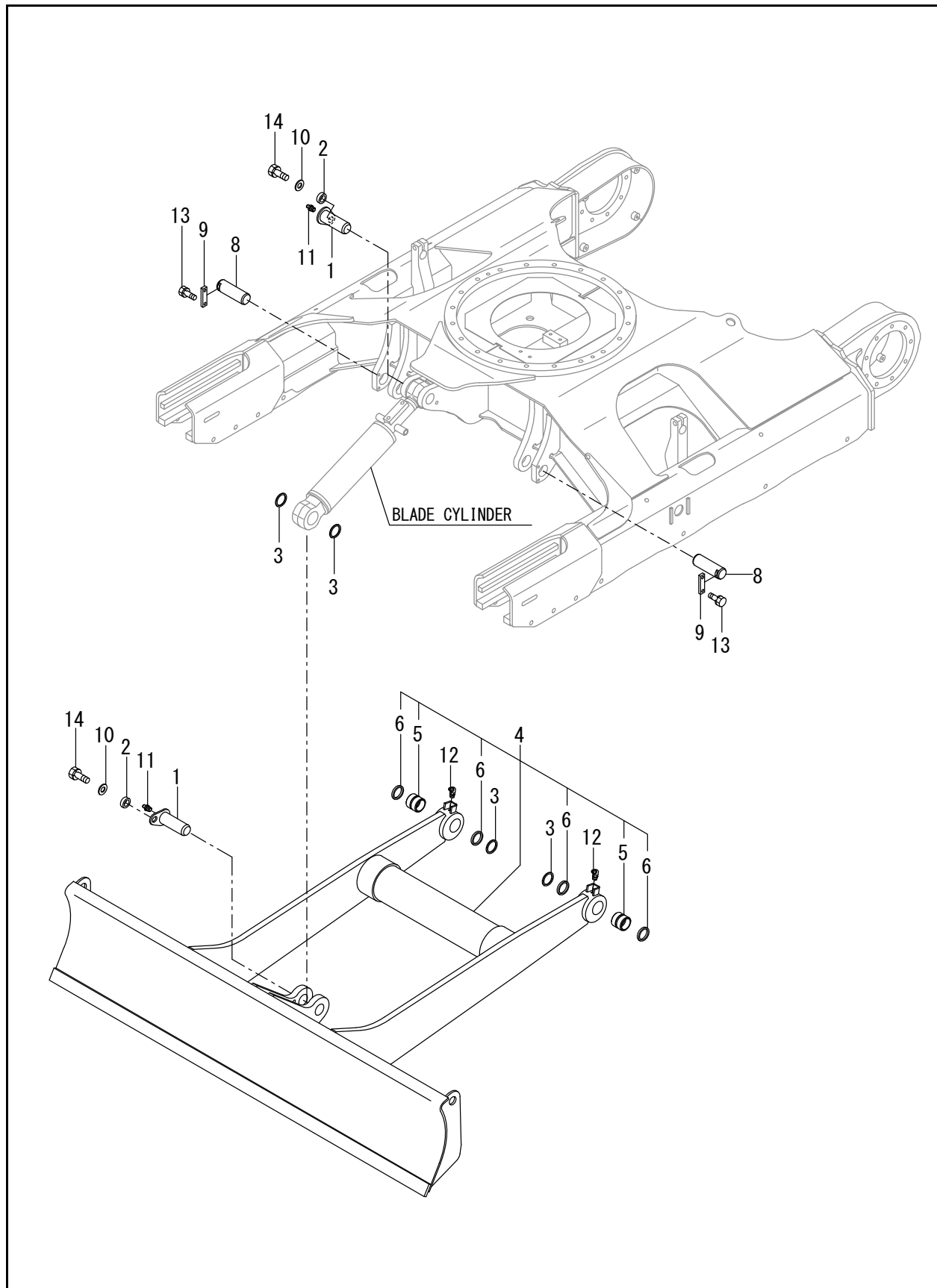
Ref.	No.	Part No.	Description	Qty.
	1	50286207	BUCKET ARM ASSY	1
	2	50286209	BUCKET ARM	1
	3	50286211	BUCKET LINK	1
	4	50282817	SEAL 45X55X4, DUST	6
	6	50282687	BUSH, PIN	2
	7	50282688	BUSH, PIN	2
	8	50282809	SHIM 45X1.2	2
	9	50282810	SHIM 45X80X1.2	2
	10	50283199	PIN 45 X 217 (A)	1
	11	50282811	SHIM 45X80X1.6	2
	12	50283200	PIN 45 X 217	1
	13	50282497	NIPPLE PT1/8,GREASE	3
	14	50284123	BOLT M10 X 80 PLATED	2
	15	50282597	NUT 10	4

FIG. 126 - QUICK COUPLER



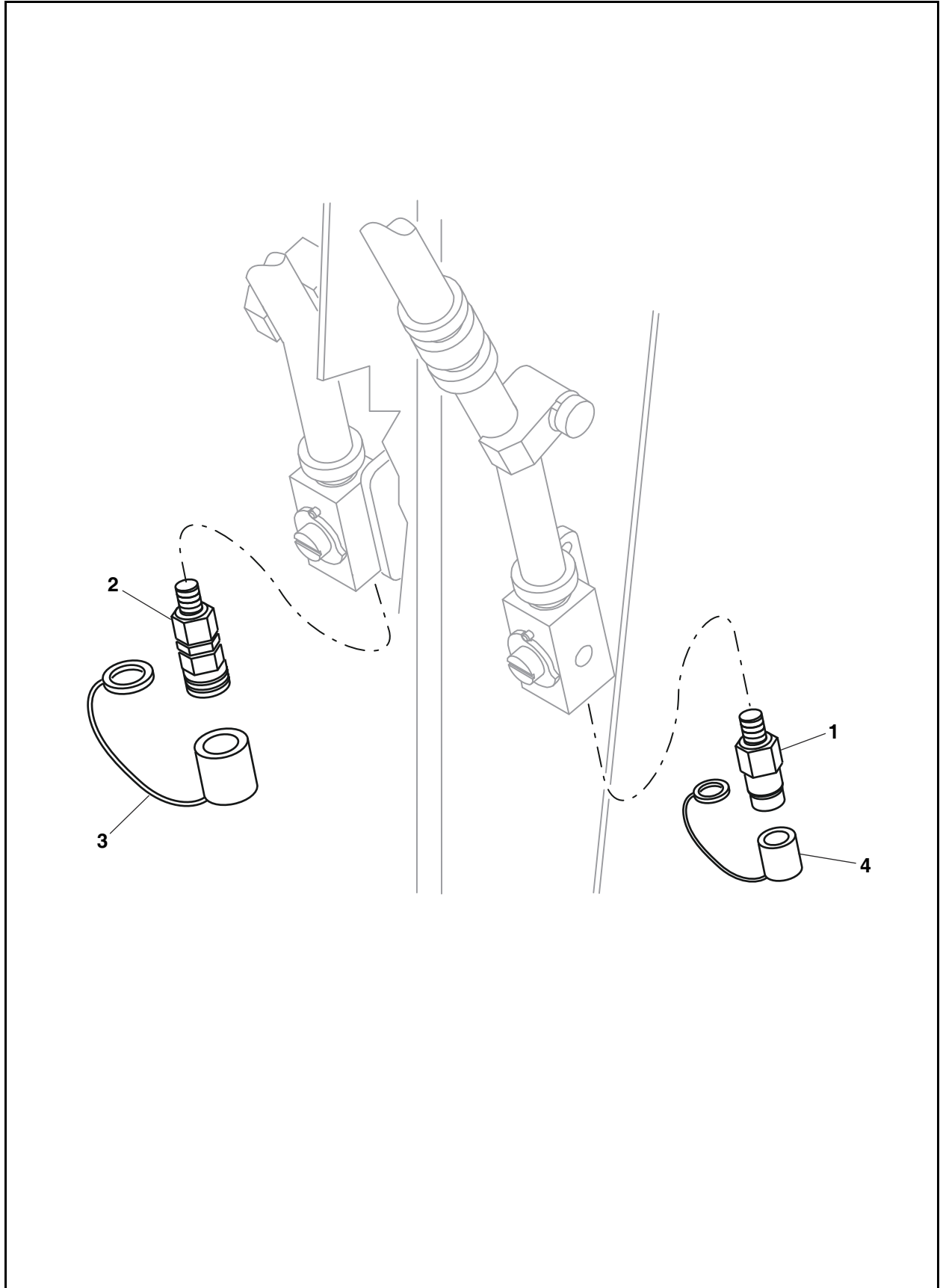
Ref.	No.	Part No.	Description	Qty.
	1	50281363	COLLER 9X4	3
	2	50280793	O-RING 27X5.7	1
	3	50282818	O-RING	2
	4	50286239	BRACKET	1
	5	50286241	BRACKET	1
	6	50283306	PIN, 40X45.5	2
	7	50283307	PIN, 35X166	1
	8	50283280	BOLT	3
	9	50283308	PIN, 45X261	1
	10	50283309	PIN 45 X 299	1
	11	50286227	LOCK PLATE	1
	12	50283311	PIN ASSY, LOCK	1
	13	50281378	COLLAR 35.5X55X1.2	1
	14	50286243	GUARD ASSY	1
	15	50283313	PLATE, RUBBER	1
	16	50286245	PLATE ASSY	1
	17	50286247	COVER ASSY	1
	18	50283282	WASHER 6.4X15.5X1.5	1
	19	50282733	SHIM 35	1
	20	50282380	WASHER 8, POLISHED	3
	21	138111	WASHER/POLISHED	2
	22	50282388	WASHER 12	1
	23	50282400	CIRCLIP 35	1
	24	50282406	CIRCLIP 35	2
	25	50284048	CIRCLIP 40(H)	2
	26	50282497	NIPPLE PT1/8,GREASE	5
	27	50282506	BOLT W/WASHER M8X16	2
	28	50282515	BOLT W/WASHER M10X20	2
	29	50282525	BOLT W/WASHER M12X30	1
	30	50282562	BOLT M 8X 20 PLATED	3
	31	50284123	BOLT M10 X 80 PLATED	1
	32	50282597	NUT 10	2
	33	425-34984	LOCK NUT M6 PLATED	1

FIG. 128 - BLADE



Ref.	No.	Part No.	Description	Qty.
	1	50282791	PIN ASSY, 45X122	2
	2	50280892	SPACER	2
	3	50282689	SHIM 45X1	4
	4	50283326	BLADE ASSY	1
	5	50282764	BUSHING 45 50	2
	6	50282817	SEAL 45X55X4, DUST	4
	8	50282873	PIN 45 X 120	2
	9	50282717	PLATE, LOCK	2
	10	50282388	WASHER 12	2
	11	50282497	NIPPLE PT1/8,GREASE	2
	12	50282498	NIPPLE B,GREASE	2
	13	50282516	BOLT W/WASHER M10X25	4
	14	50282525	BOLT W/WASHER M12X30	2

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HYDRAULIC QUICK-CONNECT COUPLERS



Ref.	No.	Part No.	Description	Qty.
	1	50300958	COUPLER/MALE BSPT08	1
	2	50300968	COUPLER/FEMALE BSPT08	1
	3	271084	COVER/DUST FEMALE 08	1
	4	271083	COVER/DUST MALE 08	1

NOTE: See Page 204 for related components.

Z45 - COMPACT EXCAVATOR

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<http://www.truckmanualshub.com/>

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184474	1	5
184475	1	6
186340	23	13

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186470	19	7
186483	27	11
186593	53	21
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186610	161	14
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188723	21	14
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197813	169	11
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272809	1	12

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50280782	99	29
50280782	111	3
50280782	147	58
50280783	59	21
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50280794	115	15
50280795	157	18
50280797	5	35
50280797	7	38
50280797	9	11
50280797	11	12
50280797	13	21B
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50280798	31	1

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50280798	43	1	50280846	5	34	50280930	33	4
50280798	47	1	50280846	7	37	50280931	33	5
50280798	55	1	50280849	177	5	50280932	33	1
50280799	37	1	50280851	17	9	50280933	31	5
50280799	131	25	50280853	17	10	50280939	69	13
50280802	23	10	50280854	21	3	50280940	69	14
50280802	45	1	50280857	53	3	50280943	87	2
50280802	45	2	50280863	97	3	50280945	99	1
50280803	17	15	50280865	133	22	50280945	109	19
50280803	49	15	50280875	217	4	50280948	35	20
50280804	35	18	50280876	217	7	50280948	109	27
50280805	93	3	50280887	25	12	50280969	181	10
50280806	39	8	50280889	99	15	50280991	223	15
50280810	67	3	50280889	115	16	50280991	223	16
50280810	69	6	50280889	133	6	50281010	147	28
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50283541	95	4	50283584	103	14	50283637	139	15
50283542	95	5	50283586	103	15	50283638	139	16
50283543	111	4	50283587	105	5	50283640	145	10
50283545	137	4	50283588	105	6	50283641	147	5
50283546	137	7	50283589	137	8	50283643	147	15
50283547	137	6	50283590	137	9	50283644	147	19
50283548	139	1	50283592	109	21	50283645	149	5
50283549	139	2	50283593	109	23	50283647	149	12
50283550	21	20	50283595	111	1	50283648	149	13
50283551	99	6	50283597	103	6	50283649	149	20
50283552	99	8	50283600	109	7	50283650	151	1
50283553	99	11	50283601	109	8	50283653	145	43
50283554	99	12	50283602	109	9	50283654	145	44
50283555	99	13	50283607	109	12	50283655	145	45
50283556	99	14	50283608	121	2	50283655	147	49
50283557	101	1	50283610	115	6	50283655	149	40
50283558	103	1	50283611	115	7	50283656	149	41
50283558	103	10	50283612	115	8	50283657	149	42
50283560	81	14	50283613	117	1	50283658	147	31
50283561	101	10	50283614	99	20	50283659	149	24
50283562	101	3	50283614	117	5	50283660	157	26
50283563	101	4	50283616	119	4	50283661	157	49
50283564	21	21	50283617	119	5	50283665	163	1
50283566	21	22	50283618	115	9	50283667	197	1
50283567	21	23	50283620	87	12	50283677	173	16
50283568	101	5	50283621	121	7	50283678	165	15
50283569	81	7	50283622	125	4	50283681	173	18
50283570	103	12	50283624	125	18	50283688	167	20
50283572	101	11	50283625	139	3	50283689	167	21
50283573	101	12	50283626	139	4	50283690	167	22
50283574	101	13	50283627	139	5	50283697	165	19
50283575	81	8	50283628	139	6	50283702	179	15
50283576	101	7	50283629	139	7	50283703	179	18
50283577	101	8	50283630	139	8	50283707	165	20
50283578	101	14	50283631	139	9	50283708	165	21
50283579	101	9	50283632	139	10	50283709	165	22
50283580	101	16	50283633	139	11	50283714	79	3
50283581	101	17	50283634	139	12	50283715	79	16

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50283731	163	31
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50283731	169	26
50283731	171	12
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50283750	163	12
50283750	165	26
50283750	171	23
50283756	165	27
50283756	173	27
50283757	165	28
50283775	183	1
50283776	187	10
50283777	185	8
50283778	197	18
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50283783	181	20
50283786	205	5
50283787	205	6
50283790	89	1
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50283802	193	11
50283804	193	7
50283806	197	27
50283807	197	28
50283809	205	14
50283810	205	15
50283811	195	9
50283813	195	4
50283814	195	5
50283816	195	7
50283818	195	11
50283823	207	10
50283825	207	11
50283826	197	29
50283832	193	8
50283832	193	12
50283842	209	5
50283843	209	6
50283844	209	7
50283847	193	9
50283851	209	8
50283852	209	9
50283856	207	12
50283857	197	34
50283863	203	1
50283865	203	4
50283867	203	5
50283869	203	2
50283871	203	6
50283873	203	7
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50283880	215	11
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50283894	207	14
50283897	201	16
50283898	201	17
50283899	145	47
50283899	223	12
50283900	223	13
50283902	151	31
50283903	223	14
50283904	223	4
50283905	151	32
50283906	145	5
50283908	145	9
50283909	145	11
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50283911	145	23
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50283913	145	33
50283914	225	8
50283915	205	2
50283916	195	10
50283918	31	2
50283923	5	20
50283923	7	23
50283928	13	10
50283929	13	11
50283930	17	1
50283931	17	2
50283932	23	5
50283934	27	2
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50283941	49	6	50284003	31	11	50284045	63	7
50283943	53	10	50284005	131	24	50284045	159	8
50283944	53	11	50284006	49	14	50284046	161	6
50283946	75	2	50284006	71	2	50284047	67	13
50283948	87	6	50284006	73	1	50284047	159	18
50283949	87	7	50284007	15	11	50284048	49	21
50283957	109	15	50284008	131	26	50284048	229	25
50283958	109	16	50284009	51	13	50284049	63	8
50283959	109	24	50284011	51	15	50284051	127	29
50283960	111	5	50284012	55	5	50284052	125	27
50283961	109	10	50284012	55	9	50284053	165	29
50283961	111	7	50284013	55	3	50284054	127	30
50283962	109	22	50284014	55	11	50284055	159	5
50283963	109	26	50284015	51	14	50284055	159	9
50283964	109	11	50284017	15	10	50284056	159	24
50283966	115	13	50284017	69	17	50284057	77	6
50283967	109	14	50284017	71	13	50284058	81	11
50283968	167	4	50284018	29	2	50284059	71	20
50283968	169	4	50284019	45	7	50284061	125	31
50283968	169	19	50284020	125	5	50284062	81	12
50283972	205	16	50284021	71	14	50284063	189	1
50283974	205	17	50284022	55	19	50284064	189	3
50283979	145	48	50284023	137	17	50284065	21	11
50283984	91	4	50284025	55	18	50284066	23	24
50283985	145	42	50284026	45	8	50284067	201	10
50283985	147	48	50284027	53	19	50284068	21	13
50283985	149	39	50284030	51	7	50284069	205	22
50283986	197	6	50284031	51	8	50284070	159	25
50283987	197	7	50284032	51	5	50284071	49	22
50283988	197	8	50284033	51	9	50284072	159	34
50283995	25	3	50284034	51	10	50284073	63	9
50283996	19	44	50284035	51	11	50284076	71	21
50283997	19	46	50284036	51	12	50284076	73	8
50283998	23	18	50284038	51	6	50284076	77	7
50283999	23	20	50284039	163	38	50284077	161	13
50284000	23	2	50284041	153	28	50284079	159	45
50284001	71	1	50284042	21	24	50284080	159	46
50284002	27	9	50284042	181	33	50284081	59	11
50284002	45	11	50284044	147	45	50284082	143	55

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50284087	143	40
50284088	159	47
50284090	159	32
50284091	159	33
50284092	125	28
50284092	127	31
50284093	155	8
50284094	151	23
50284095	31	23
50284095	31	24
50284095	179	13
50284095	179	27
50284096	53	22
50284096	55	25
50284098	99	25
50284100	153	29
50284101	151	38
50284101	223	26
50284101	225	19
50284102	143	58
50284104	19	61
50284105	45	16
50284105	45	17
50284105	55	26
50284105	137	21
50284106	145	54
50284106	147	54
50284106	149	45
50284107	129	20
50284108	205	26
50284109	123	12
50284109	205	27
50284110	139	18
50284111	221	11
50284115	67	19
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50284119	161	16
50284120	69	24
50284123	227	14
50284123	229	31
50284126	145	56
50284127	109	43
50284129	167	12
50284129	169	12
50284129	169	25
50284130	165	36
50284131	173	32
50284132	127	32
50284133	165	37
50284134	159	15
50284136	159	36
50284137	143	59
50284138	137	22
50284141	31	8
50284143	59	1
50284144	181	1
50284147	21	1
50284148	69	27
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50284151	149	23
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50285391	163	32
50285892	165	39
50286167	205	11
50286171	205	13
50286175	205	7
50286185	205	9
50286197	123	4
50286205	221	3
50286207	227	1
50286209	227	2
50286211	227	3
50286227	229	11
50286235	207	3
50286237	207	16
50286239	229	4
50286241	229	5
50286243	229	14
50286245	229	16
50286247	229	17
50286285	37	6
50286287	93	1
50286289	119	1
50286291	121	3
50286293	145	60
50286295	205	3
50286297	205	4
50286299	223	31
50286365	37	5
50286367	115	3
50286369	205	10
50286371	205	12
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50286421	107	1	50286538	165	2	50286576	211	8
50286422	107	1E	50286539	165	14	50286577	195	12
50286423	107	1D	50286540	163	3	50286578	211	9
50286424	107	1D	50286541	163	17	50286579	211	10
50286425	107	1C	50286542	175	1	50286580	215	9
50286426	107	1B	50286543	173	11	50286581	191	4
50286427	107	1A	50286544	171	1	50286582	191	5
50286428	107	1D	50286545	171	13	50286583	215	10
50286461	23	19	50286546	169	13	50286584	211	11
50286462	39	18	50286547	167	13	50286585	211	12
50286463	157	55	50286548	165	1	50286586	213	7
50286464	157	56	50286549	165	13	50286587	211	13
50286465	157	40	50286550	163	2	50286588	195	13
50286466	159	21	50286551	163	16	50286591	23	3
50286467	159	22	50286552	171	9	50286594	163	34
50286468	39	17	50286552	173	8	50286600	23	14
50286515	23	6	50286552	175	9	50286601	31	3
50286516	99	3	50286553	173	21	50286602	99	9
50286517	99	5	50286554	223	11	50286603	109	4
50286518	117	3	50286555	67	2	50286604	173	29
50286519	117	4	50286556	67	5	50300780	5	12
50286520	175	8	50286557	177	4	50300780	7	15
50286521	173	7	50286558	177	6	50300834	5	5
50286522	171	8	50286559	177	7	50300834	7	8
50286523	171	21	50286560	177	22	50300958	233	1
50286524	169	20	50286561	39	10	50300968	233	2
50286525	167	6	50286562	217	6	50301126	1	2
50286525	169	6	50286563	197	30	50301147	5	56
50286526	165	9	50286564	197	31	50301147	7	59
50286527	163	11	50286565	197	32	50301147	35	3
50286528	163	26	50286566	197	33	210-32084	145	57
50286529	175	2	50286567	213	1	420-34912	1	7
50286530	173	1	50286568	213	2	420-34913	1	8
50286531	173	12	50286569	213	3	420-34914	1	9
50286532	171	2	50286570	213	4	425-34652	13	13
50286533	171	14	50286571	213	5	425-34728	181	32
50286534	169	14	50286572	213	6	425-34733	73	10
50286535	169	1	50286573	211	5	425-34733	81	15
50286536	167	14	50286574	211	6	425-34744	19	11

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425-34746	101	21
425-34750	49	17
425-34760	69	3
425-34765	101	22
425-34766	49	27
425-34776	167	9
425-34776	169	9
425-34776	169	22
425-34794	67	22
425-34838	49	28
425-34848	41	11
425-34891	27	18
425-34891	41	10
425-34891	49	18
425-34891	177	14
425-34902	123	9
425-34902	205	20
425-34902	205	21
425-34916	19	43
425-34916	23	17
425-34918	39	19
425-34918	195	2
425-34918	195	8
425-34918	195	14
425-34918	197	35
425-34918	209	4
425-34918	215	7
425-34924	23	12
425-34927	23	16
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TORQUE SPECIFICATIONS

Note: Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread forming and sheet metal screws) unless specified otherwise.

Hydraulic fittings with various seals (light application). All torque values are in lb.-ft. (Nm) unless marked otherwise.					
Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M10X1.0	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (10 mm)
M12X1.5	15 (20)	18 (25)	18 (25)	18 (25)	0.5 in. (12 mm)
M14X1.5	26 (35)	33 (45)	26 (35)	26 (35)	0.6 in. (14 mm)
M16X1.5	33 (45)	41 (55)	30 (40)	37 (50)	0.6 in. (16 mm)
M18X1.5	41 (55)	52 (70)	33 (45)	52 (70)	0.7 in. (18 mm)
M22X1.5	48 (65)	92 (125)	44 (60)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	74 (100)	107 (145)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	118 (160)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (48 mm)
G1/8A	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (9.73 mm)
G1/4A	26 (35)	26 (35)	22 (30)	26 (35)	0.5 in. (13.16 mm)
G3/8A	33 (45)	52 (70)	33 (45)	37 (50)	0.7 in. (16.66 mm)
G1/2A	48 (65)	66 (90)	41 (55)	48 (65)	0.8 in. (20.96 mm)
G3/4A	66 (90)	133 (180)	74 (100)	103 (140)	1.0 in. (26.44 mm)
G1A	111 (150)	229 (310)	118 (160)	140 (190)	1.3 in. (33.25 mm)
G1 1/4A	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (41.91 mm)
G1 1/2A	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (47.80 mm)

Hydraulic fittings with various seals (heavy application). All torque values are in lb.-ft. (Nm) unless marked otherwise.					
Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M12X1.5	15 (20)	26 (35)	26 (35)	26 (35)	0.5 in. (12 mm)
M14X1.5	26 (35)	41 (55)	33 (45)	33 (45)	0.6 in. (14 mm)
M16X1.5	33 (45)	52 (70)	41 (55)	41 (55)	0.6 in. (16 mm)
M18X1.5	41 (55)	66 (90)	52 (70)	52 (70)	0.7 in. (18 mm)
M20X1.5	41 (55)	92 (125)	59 (80)	74 (100)	0.8 in. (20 mm)
M22X1.5	48 (65)	100 (135)	74 (100)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	125 (170)	100 (135)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	229 (310)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	243 (330)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	310 (420)	398 (540)	1.9 in. (48 mm)
G1/8A	26 (35)	41 (55)	33 (45)	33 (45)	0.5 in. (13.16 mm)
G1/4A	33 (45)	59 (80)	44 (60)	44 (60)	0.7 in. (16.66 mm)
G3/8A	48 (65)	85 (115)	55 (75)	74 (100)	0.8 in. (20.96 mm)
G1/2A	66 (90)	133 (180)	125 (170)	107 (145)	1.0 in. (26.44 mm)
G3/4A	111 (150)	229 (310)	229 (310)	192 (260)	1.3 in. (33.25 mm)
G1A	177 (240)	332 (450)	243 (330)	266 (360)	1.7 in. (41.91 mm)
G1 1/4A	214 (290)	398 (540)	310 (420)	398 (540)	1.9 in. (47.80 mm)

English coarse and fine pitch threads. All torque values are in lb.-ft. (Nm) unless marked otherwise.

Values marked with an asterisk (*) are in lb-in., values marked (**) are in Kg-Cm

Thread - Pitch	Grade 2		Grade 5		Grade 8	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
8-32	19* (21**)	14* (16**)	30* (34**)	22* (25**)	41* (47**)	31* (35**)
8-36	20* (23**)	15* (17**)	31* (35**)	23* (26**)	43* (49**)	32* (36**)
10-24	27* (31**)	21* (24**)	43* (49**)	32* (36**)	60* (69**)	45* (51**)
10-32	31* (35**)	23* (26**)	49* (56**)	36* (41**)	68* (78**)	51* (58**)
1/4-20	66* (76**)	50* (57**)	9 (12)	75* (86**)	12 (16)	9 (12)
1/4-28	76* (87**)	56* (64**)	10 (14)	86* (99**)	14 (19)	10 (14)
5/16-18	11 (1.5)	9 (12)	17 (23)	13 (18)	25 (34)	18 (24)
5/16-24	12 (16)	9 (12)	19 (26)	14 (19)	25 (34)	20 (27)
3/8-16	20 (27)	15 (20)	30 (41)	23 (31)	45 (61)	35 (47)
3/8-24	23 (31)	17 (23)	35 (47)	25 (34)	50 (68)	35 (47)
7/16-14	32 (43)	24 (33)	50 (68)	35 (47)	70 (95)	55 (75)
7/16-20	36 (49)	27 (37)	55 (75)	40 (54)	80 (108)	60 (81)
1/2-13	35 (47)	35 (47)	75 (102)	55 (75)	110 (149)	80 (108)
1/2-20	40 (54)	40 (54)	90 (122)	65 (88)	120 (163)	90 (122)
9/16-12	55 (75)	55 (75)	110 (149)	80 (108)	150 (203)	110 (149)
9/16-18	60 (81)	60 (81)	120 (163)	90 (122)	170 (230)	130 (176)
5/8-11	75 (102)	75 (102)	150 (203)	110 (149)	220 (298)	170 (230)
5/8-18	85 (115)	85 (115)	180 (244)	130 (176)	240 (325)	180 (244)
3/4-10	130 (176)	130 (176)	260 (353)	200 (271)	380 (515)	280 (380)
3/4-16	150 (203)	150 (203)	300 (407)	220 (298)	420 (569)	320 (434)
7/8-9	125 (169)	125 (169)	430 (583)	320 (434)	600 (813)	460 (624)
7/8-14	140 (190)	140 (190)	470 (637)	360 (488)	660 (895)	500 (678)
1-8	190 (258)	190 (258)	640 (868)	480 (651)	900 (1220)	680 (922)
1-14	210 (285)	210 (285)	710 (963)	530 (719)	1000 (1356)	740 (1003)

With coarse-pitch thread. All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Threads according to DIN 912, DIN 931, DIN 933, etc.			Threads according to DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M5	4.1 (5.5)	6 (8)	7 (10)	4 (5)	5 (7)
M6	7 (10)	10 (14)	13 (17)	6.3 (8.5)	9 (12)
M8	18 (25)	26 (35)	31 (42)	15 (20)	22 (30)
M10	33 (45)	48 (65)	59 (80)	30 (40)	44 (59)
M12	64 (87)	81 (110)	108 (147)	51 (69)	74 (100)
M14	100 (135)	133 (180)	170 (230)	81 (110)	118 (160)
M16	155 (210)	203 (275)	258 (350)	125 (170)	184 (250)
M18	207 (280)	302 (410)	354 (480)	181 (245)	254 (345)
M20	302 (410)	420 (570)	509 (690)	251 (340)	361 (490)
M22	406 (550)	575 (780)	686 (930)	339 (460)	487 (660)
M24	524 (710)	738 (1000)	878 (1190)	435 (590)	620 (840)
M27	767 (1040)	1092 (1480)	1305 (1770)	642 (870)	922 (1250)
M30	1047 (1420)	1482 (2010)	1770 (2400)	885 (1200)	1254 (1700)

With fine-pitch thread. All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Threads according to DIN 912, DIN 931, DIN 933, etc.			Threads according to DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M8X1.0	18 (25)	27 (37)	32 (43)	16 (22)	24 (32)
M10X1.0	37 (50)	55 (75)	65 (88)	32 (43)	48 (65)
M10X1.25	36 (49)	52 (71)	61 (83)	31 (42)	46 (62)
M12X1.25	64 (87)	96 (130)	111 (150)	55 (75)	81 (110)
M12X1.5	61 (83)	92 (125)	107 (145)	53 (72)	77 (105)
M14X1.5	100 (135)	148 (200)	173 (235)	89 (120)	129 (175)
M16X1.5	155 (210)	229 (310)	266 (360)	133 (180)	195 (265)
M18X1.5	232 (315)	332 (450)	391 (530)	199 (270)	284 (385)
M20X1.5	325 (440)	465 (630)	538 (730)	277 (375)	391 (530)
M22X1.5	435 (590)	620 (840)	723 (980)	369 (500)	524 (710)
M24X2.0	546 (740)	789 (1070)	922 (1250)	465 (630)	664 (900)
M27X2.0	811 (1100)	1143 (1550)	1328 (1800)	679 (920)	959 (1300)
M30X2.0	1106 (1500)	1586 (2150)	1844 (2500)	959 (1300)	1364 (1850)



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