

GEHL®

Model Z80

Form No.
50940214
Revision A
May 2014

Compact Excavator

Serial Numbers 00701 and Up



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.
- Internal engine components not shown in this manual are contained in a separate engine parts manual. The engine parts manual is contained in the documentation packet shipped with the machine, and is also available separately. Contact your dealer with any documentation requests.

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.

Model and Serial Number Record

Excavator Model Number	
Excavator Serial Number	
Engine Serial Number	

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

Locations

- Product Identification 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.

INTRODUCTION

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
- 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*

Additional Serial Number Information

Parts changes are often defined by serial numbers, and less often by date codes.

- Serial numbers as shown in the parts manual may have prefixes M (machine) or E (engine) preceding the serial number shown on the identification tag.
- (From 1st SN) – indicates that the part can be used on all machines from 1st serial number to present.
- “XXXXX” and “ZZZZZ” are used in the SN sequence instead of numbers for parts that have changed, but where the serial number for the change is not known.
- In some cases, a date code is used instead of a serial number, and is displayed in the YYYY.MM format. Months will be displayed as .01-.12. For example, 2012.02 would be the second month (February) of 2012.

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	SQ.....	Square
ASSY	Assembly	TOPS	Tip Over Protective Structure
A/C.....	Air Conditioning	US.....	Undersized
A/D	Auto-Deceleration	W/	With
AR.....	As Required	W/O	Without
CB.....	Carriage Bolt		
CP	Cotter Pin		
CS	Cap Screw (Hexagon Head)		
C/V.....	Control Valve		
CYL	Cylinder		
DIA	Diameter		
ESS	Engine Speed Sensing		
FHCS	Flat Head Cap Screw		
FOPS.....	Falling Object Protective Structure		
G	Grams		
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		
PTO.....	Power Take-Off		
ROPS	Roll Over Protective Structure		
RT	Right		
SHCS	Socket Head Cap Screw		
SLTD.....	Slotted		
SN	Serial Number or Slotted Nut		

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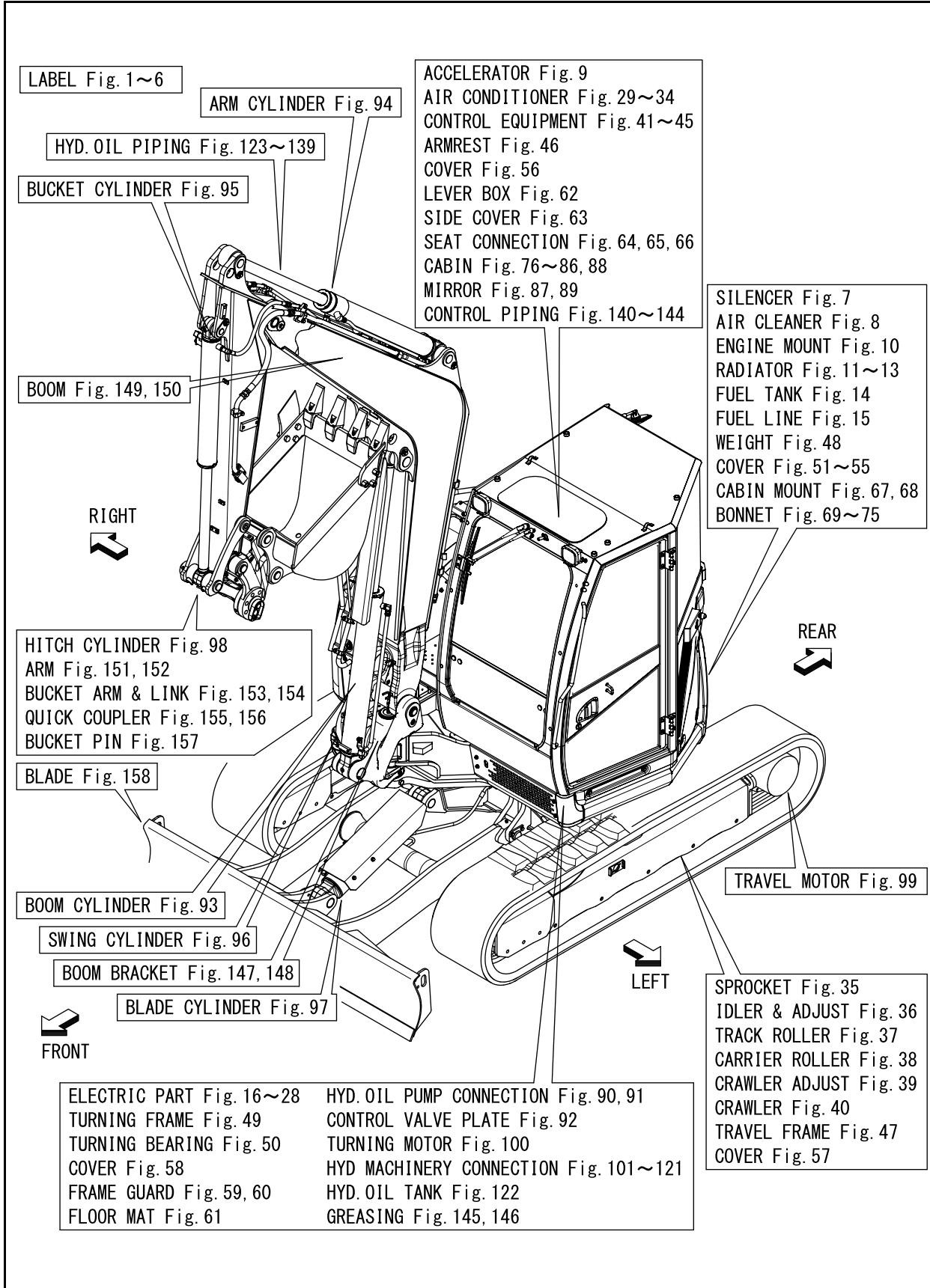
**Z80 - COMPACT EXCAVATOR
SPECIAL TOOLS, PAINT**

Ref.

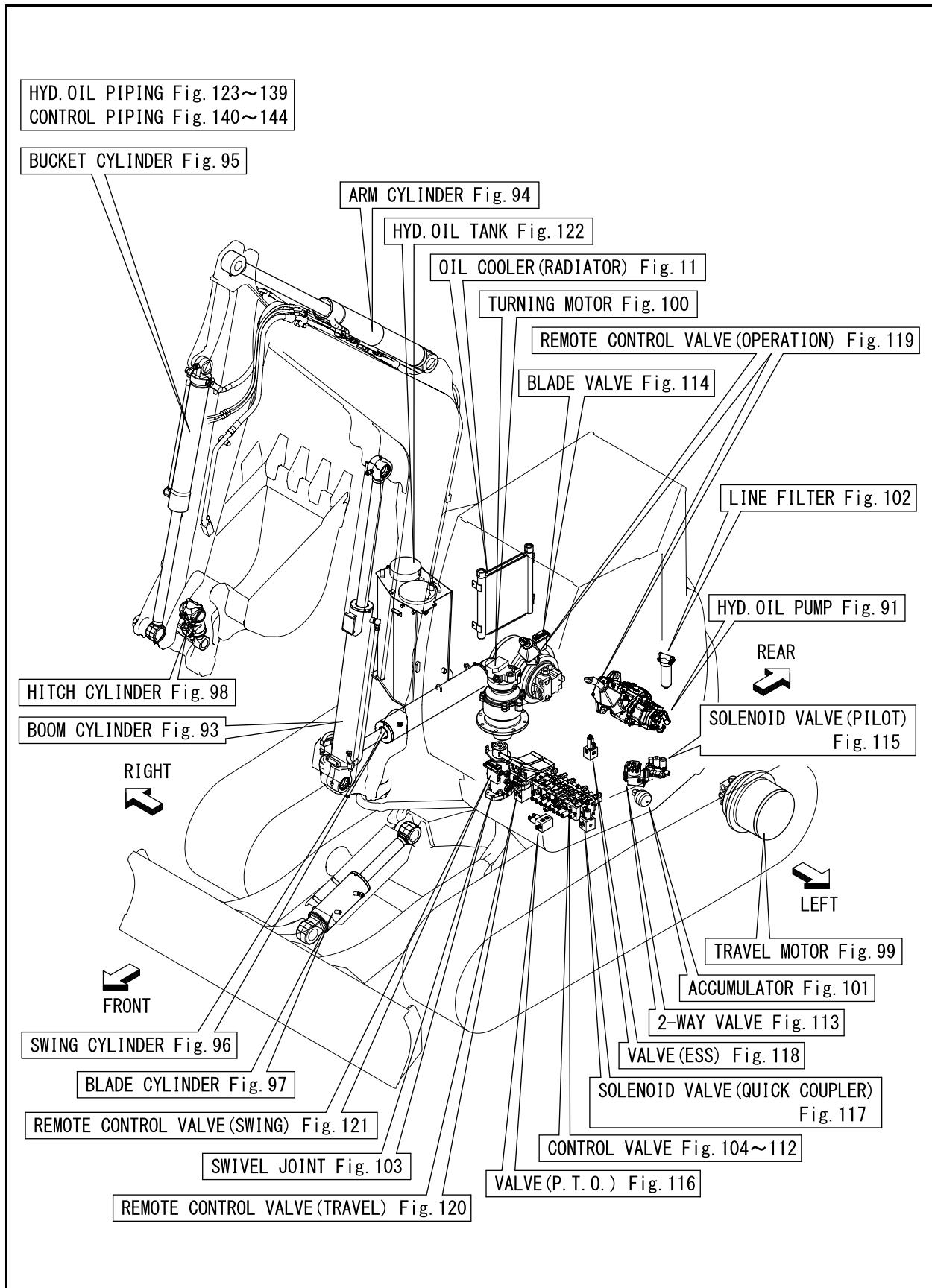
No.	Part No.	Description	Qty.
1	184467	HYDRAULIC GAUGE KIT (includes items 3, 5, 6, 7 as noted below)	1
2	50301126	TEST PORT R1/8K ADAPTER (used with Gauge Kit)	1
3	184472	TEST GAUGE, 1000PSI (1 included with Gauge Kit)	1
4	184473	TEST GAUGE, 6000PSI	1
5	184474	TEST GAUGE, 10,000PSI (3 included with Gauge Kit)	1
6	184475	TEST HOSE, 120" (4 included with Gauge Kit)	1
7	184476	ADAPTER, 4FP-M16X2BLKHD (4 included with Gauge Kit)	1
8	420-34912	ROD SEAL INSTALL TOOL, 3/4" X 1-1/4" DIAMETER SEALS	1
9	420-34913	ROD SEAL INSTALL TOOL, 1-1/2" X 2" DIAMETER SEALS	1
10	420-34914	ROD SEAL INSTALL TOOL, 2" X 3" DIAMETER SEALS	1
11	195348	SERVICE TOOL/FUEL INJECTOR PUMP TIMING KIT	1
12	272806	HYDRAULIC OIL ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
13	272809	ENGINE OIL ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
14	272811	FUEL ANALYSIS KIT (GEHL)	1
15	272812	COOLANT ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
16	272813	FIELD TEST COOLANT STRIP (low level visual analysis)	1
17	272814	OIL VACUUM PUMP (use with hydraulic oil and engine oil analysis kits)	1
18	272815	COOLANT VACUUM PUMP (use with coolant analysis kit)	1
19	272816	1/4" PLASTIC TUBING, 100' (bulk roll, use with hydraulic oil, engine oil and coolant analysis kits)	1
20	167788	GEHL 4-PK QT EXCAVATOR CONSTRUCTION YELLOW	1
21	167754	GEHL 4-PK QT GUNMETAL GRAY	1
22	167789	GEHL 6-PK SPRAY EXCAVATOR CONSTRUCTION YELLOW, 12.8 OZ.	1
23	167755	GEHL 6-PK SPRAY GUNMETAL GRAY, 12.8 OZ.	1

Z80 - COMPACT EXCAVATOR

FIGURE INDEX (1) - MAIN PARTS

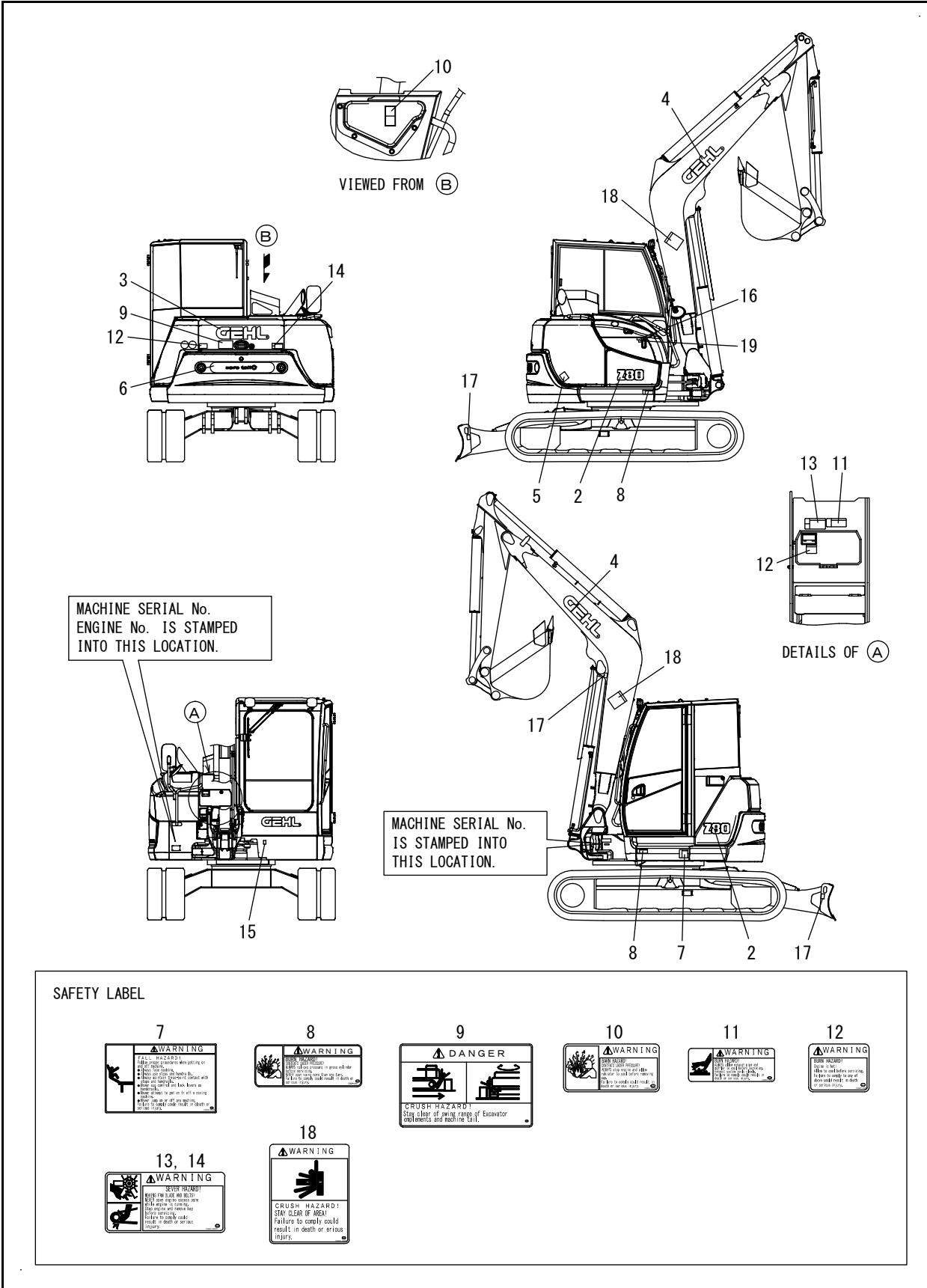


Z80 - COMPACT EXCAVATOR
FIGURE INDEX (2) - HYDRAULIC SECTION



Z80 - COMPACT EXCAVATOR

FIG. 1 - LABEL (EXTERIOR)



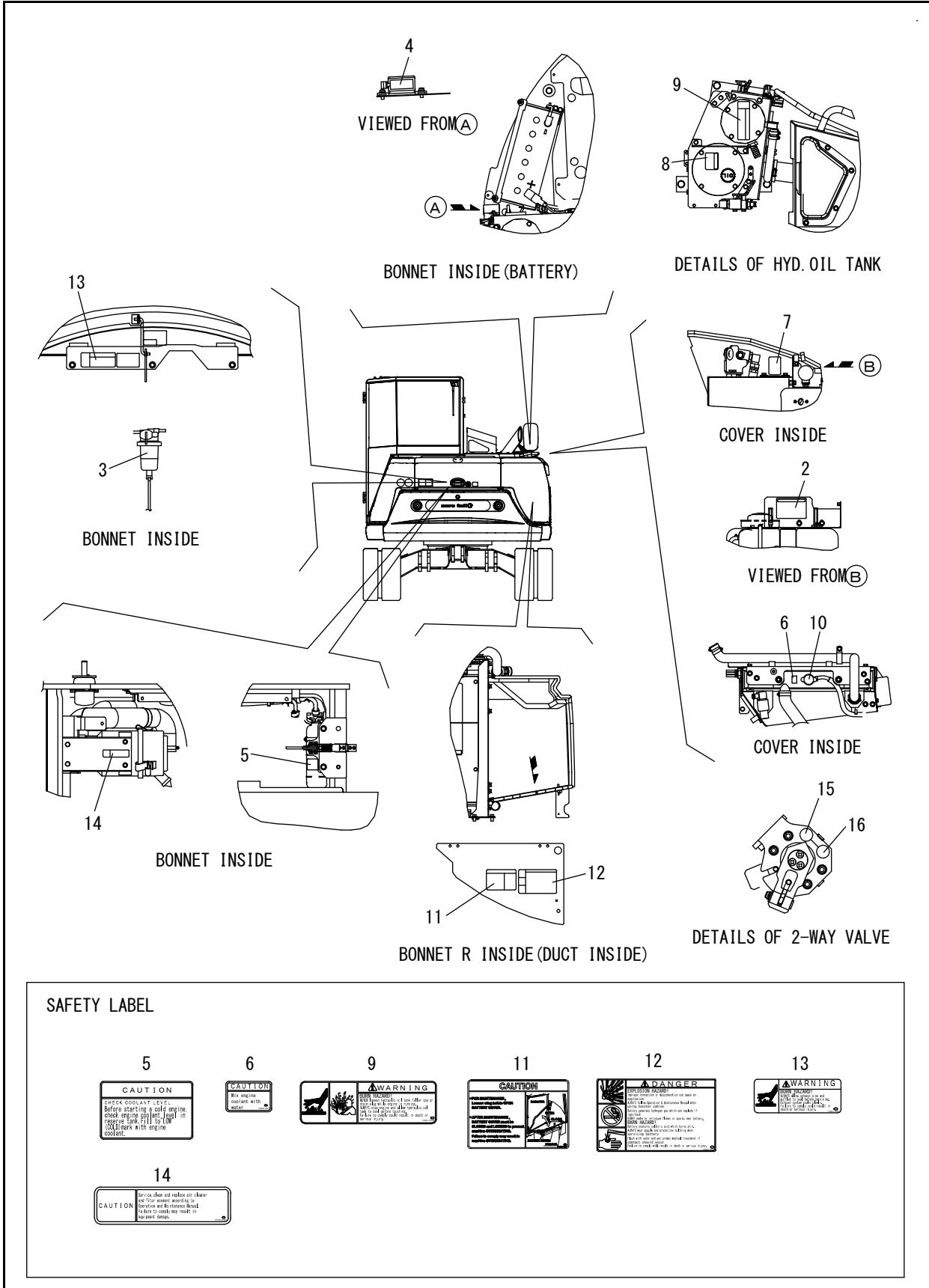
Z80 - COMPACT EXCAVATOR**FIG. 1 - LABEL (EXTERIOR)**

Ref.

No.	Part No.	Description	Qty.
2	50300845	DECAL/Z80	2
3	102025	DECAL/GEHL 8.00 X 33.95	1
4	184069	DECAL/GEHL 6.75 X 28.65	2
5	50300780	DECAL/ZERO TAIL	1
6	50300781	DECAL/ZERO TAIL	1
7	50281172	LABEL, SUPPORT US	1
8	50281023	LABEL, GREASE CYL.	2
9	50285436	LABEL,SWING AREA US	1
10	50281027	LABEL, RADIATOR US	1
11	50287429	LABEL/SILENCER EX	1
12	50281028	LABEL, ENG,COVER US	2
13	50281425	LABEL, ENG ROOM	1
14	50281425	LABEL, ENG ROOM	1
15	50287434	LABEL/GREASE US	1
16	50281034	LABEL, FUEL US	1
17	50281035	LABEL, HOOK US	3
18	50280924	LABEL, BOOM US	2
19	197868	LABEL/FUEL OIL NOTI	1

Z80 - COMPACT EXCAVATOR

FIG. 3 - LABEL (BONNET INSIDE)



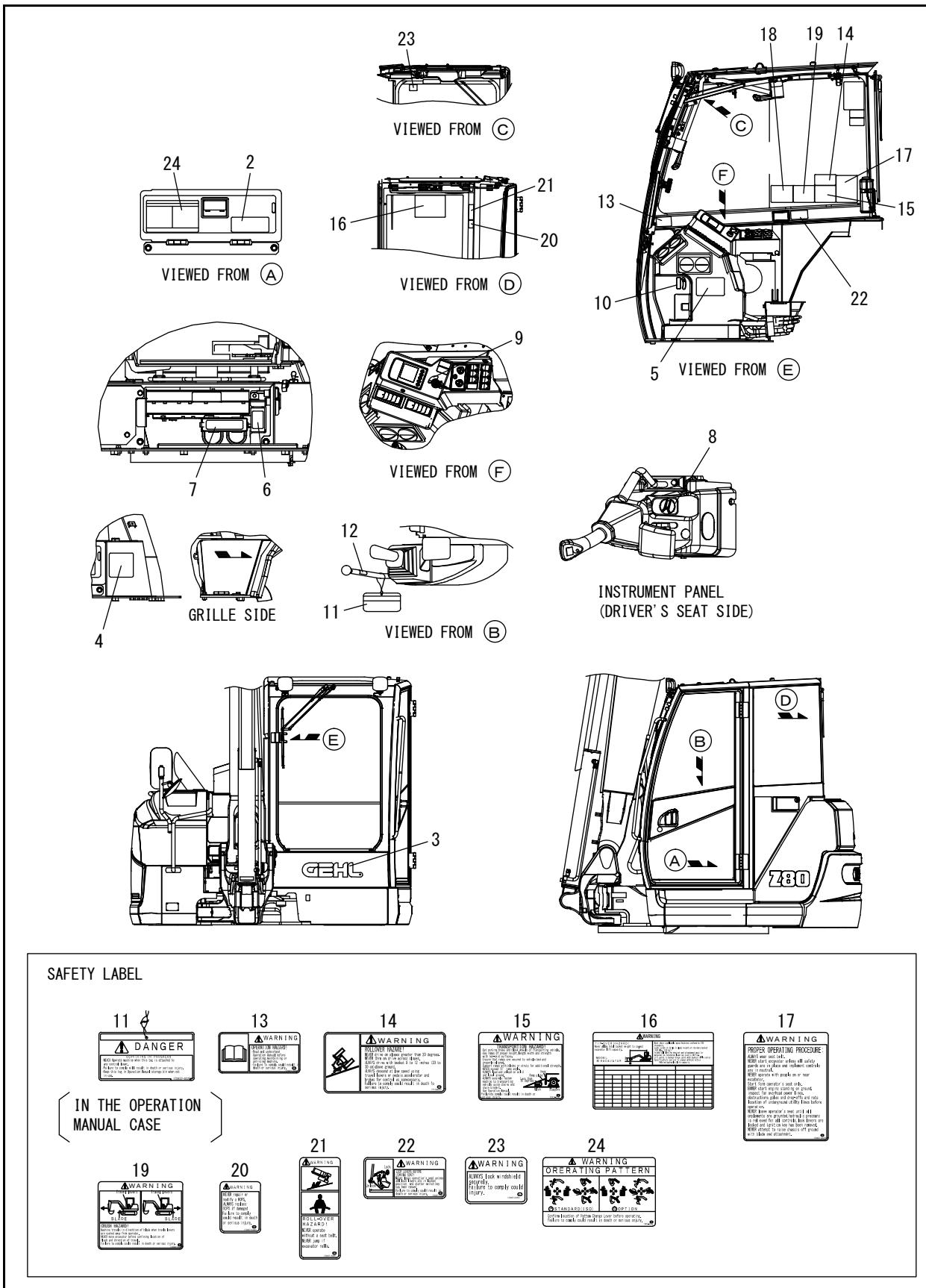
Z80 - COMPACT EXCAVATOR**FIG. 3 - LABEL (BONNET INSIDE)**

Ref.

No.	Part No.	Description	Qty.
2	50281543	LABEL,GREASING US	1
3	50281407	LABEL/WATER SEPARATOR INFO	1
4	50287028	BATTERY DECAL	1
5	50281458	LABEL, SUB-TANK US	1
6	50281459	LABEL,ANTI-FREEZING	1
7	50281548	LABEL,PTO SELECT	1
8	50281149	LABEL,HYD.OIL US	1
9	50281021	LABEL, HYD.OIL TANK	1
10	50281147	LABEL/RADIATOR CAP	1
11	50281551	LABEL,BATTERY COVER	1
12	50281024	LABEL, BATTERY US	1
13	50287429	LABEL/SILENCER EX	1
14	50280797	LABEL, AIR CLEANER	1
15	50281038	LABEL/ISO-SAE POSITION STD	1
16	50281039	LABEL/ISO-SAE POSITION OPT	1

Z80 - COMPACT EXCAVATOR

FIG. 4 - LABEL (CABIN)

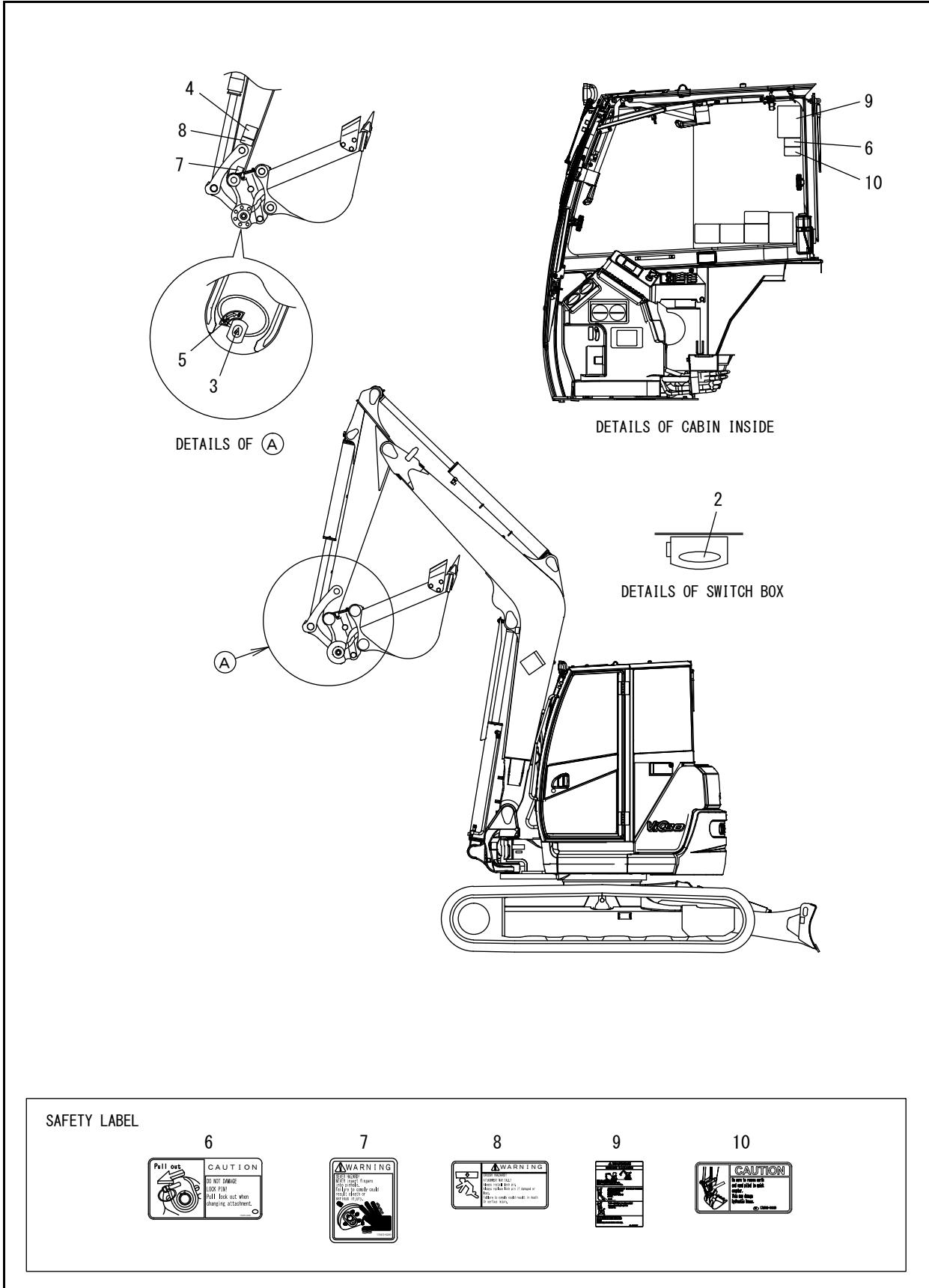


Z80 - COMPACT EXCAVATOR**FIG. 4 - LABEL (CABIN)**

Ref.

No.	Part No.	Description	Qty.
2	50282085	LABEL, SPEC US	1
3	102027	DECAL/ GEHL 5.00 X 21.22 (WHITE)	1
4	50281148	LABEL,ADJUST CRAWLER (rubber crawler)	1
5	50282086	LABEL,OIL & WATER US	1
6	50288895	FUSE BOX DECAL	1
7	50288896	RELAY BOX DECAL	1
8	50281547	LABEL,ACCELERATOR	1
9	50287423	LABEL/SW	1
10	50287424	LABEL/AIR SELECT	1
11	50281018	TAG ASSY, CAUTION	1
12	50280917	LABEL,LOCK	1
13	50281019	LABEL, MANUAL US	1
14	50281020	LABEL,SLOPE US	1
15	50281022	LABEL, TRANSPORT US	1
16	50282089	LABEL, LIFT Q	1
17	50281025	LABEL, NEUTRAL US	1
18	50288897	OPERATION DECAL	1
19	50281030	LABEL, STEERING US	1
20	50281031	LABEL, ROPS US	1
21	50281032	LABEL, SEAT BELT US	1
22	50281033	LABEL, LEVER LOCK US	1
23	50281036	LABEL, WINDOW US	1
24	50281037	LABEL, 2-WAY US	1

Z80 - COMPACT EXCAVATOR
FIG. 6 - LABEL (QUICK COUPLER)



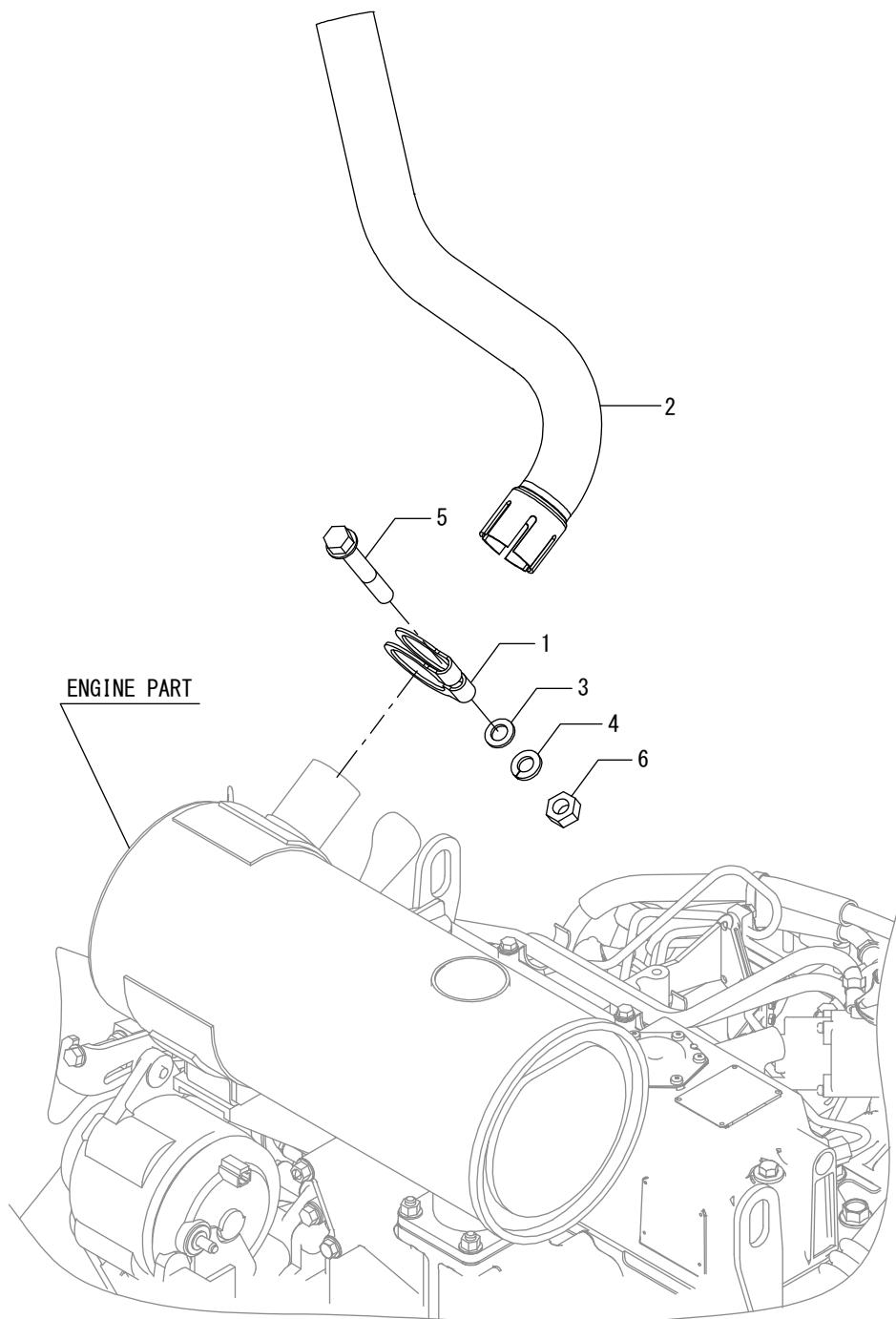
Z80 - COMPACT EXCAVATOR
FIG. 6 - LABEL (QUICK COUPLER)

Ref.

No.	Part No.	Description	Qty.
2	50301147	DECAL/POWER-A-TACH	1
3	50281361	LABEL/LOCK-PIN ARROW	1
4	50281173	LABEL,OPERATION PIN	1
5	50281130	LABEL,LOCK	1
6	50281174	LABEL, PIN US	1
7	50281176	LABEL, FINGER US	1
8	50281181	LABEL,LOCK PIN(US	1
9	50287435	LABEL/WARNING HITCH	1
10	50287436	LABEL/SAND US	1

Z80 - COMPACT EXCAVATOR

FIG. 7 - SILENCER



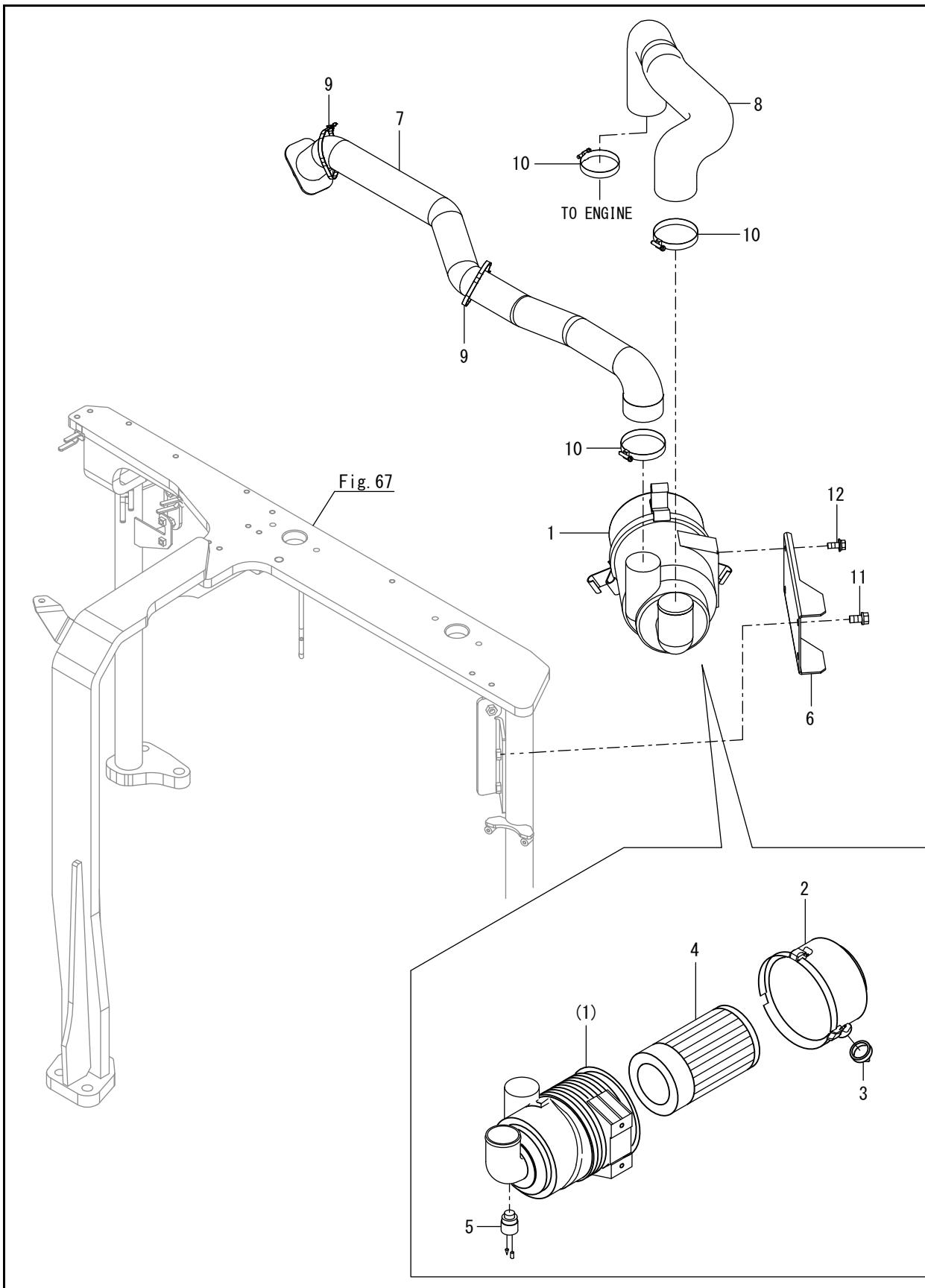
Z80 - COMPACT EXCAVATOR
FIG. 7 - SILENCER

Ref.

No.	Part No.	Description	Qty.
1	50288247	CLAMP	1
2	50288373	EXHAUST PIPE	1
3	50282377	WASHER 10	1
4	50282393	SPRING WASHER 10	1
5	50282561	BOLT M10X 65 PLATED	1
6	50282594	NUT M10	1

Z80 - COMPACT EXCAVATOR

FIG. 8 - AIR CLEANER



Z80 - COMPACT EXCAVATOR
FIG. 8 - AIR CLEANER

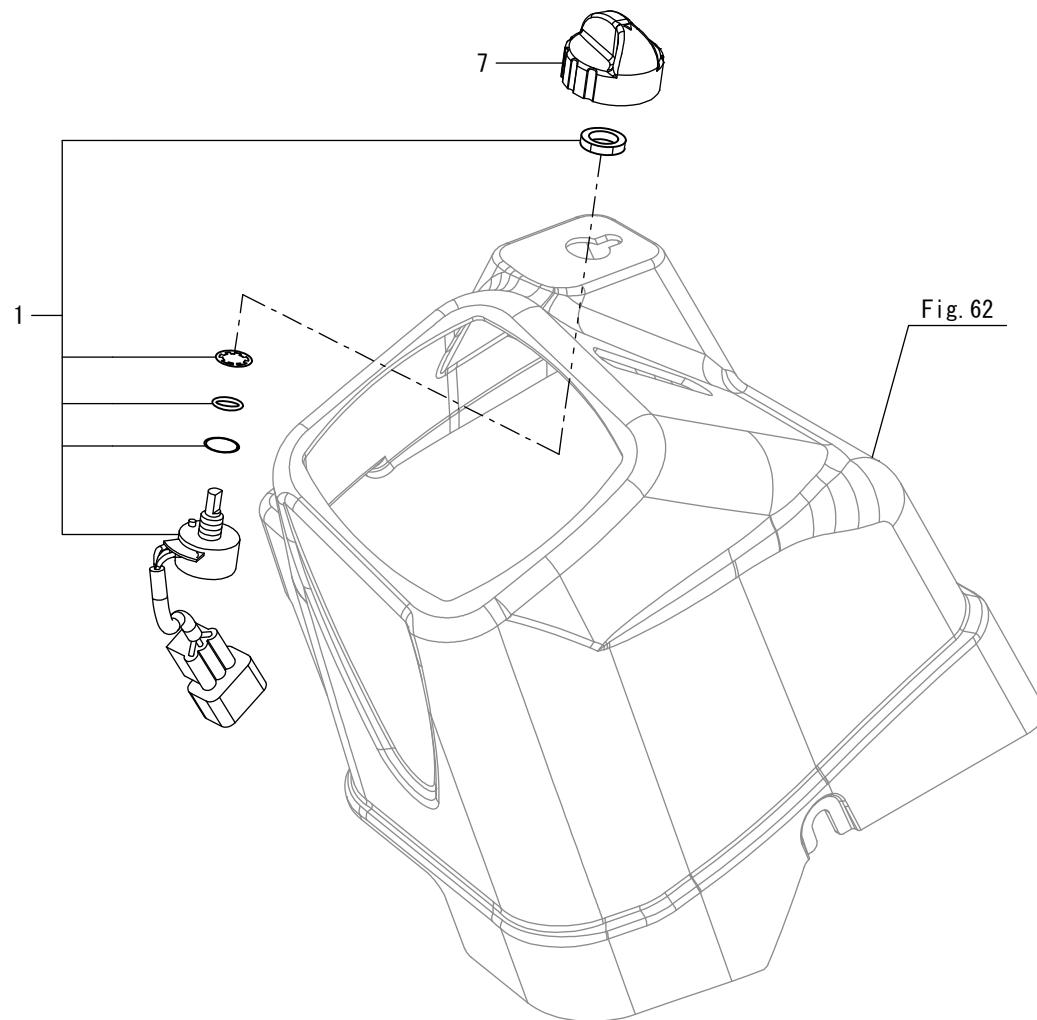
Ref.

No.	Part No.	Description	Qty.
1	50288374	AIR CLEANER ASSY	1
2	186305	COVER-ASSY	1
3	186306	VALVE	1
4	50288229	OUTER ELEMENT	1
5	186304	INDICATOR	1
6	50281555	BRACKET,CLEANER (replacement also requires label 6A)	1
6A	50280797	LABEL, AIR CLEANER *	1
7	50288375	INTAKE HOSE ASSY	1
8	50288376	AIR INTAKE HOSE	1
9	50280791	CLAMP 350	2
10	50282425	CLAMP 80	3
11	50282515	BOLT W/WASHER M10X20	2
12	50282534	BOLT M 8X 20	2

NOTE: * Label shown on Page 6

Z80 - COMPACT EXCAVATOR

FIG. 9 - ACCELERATOR



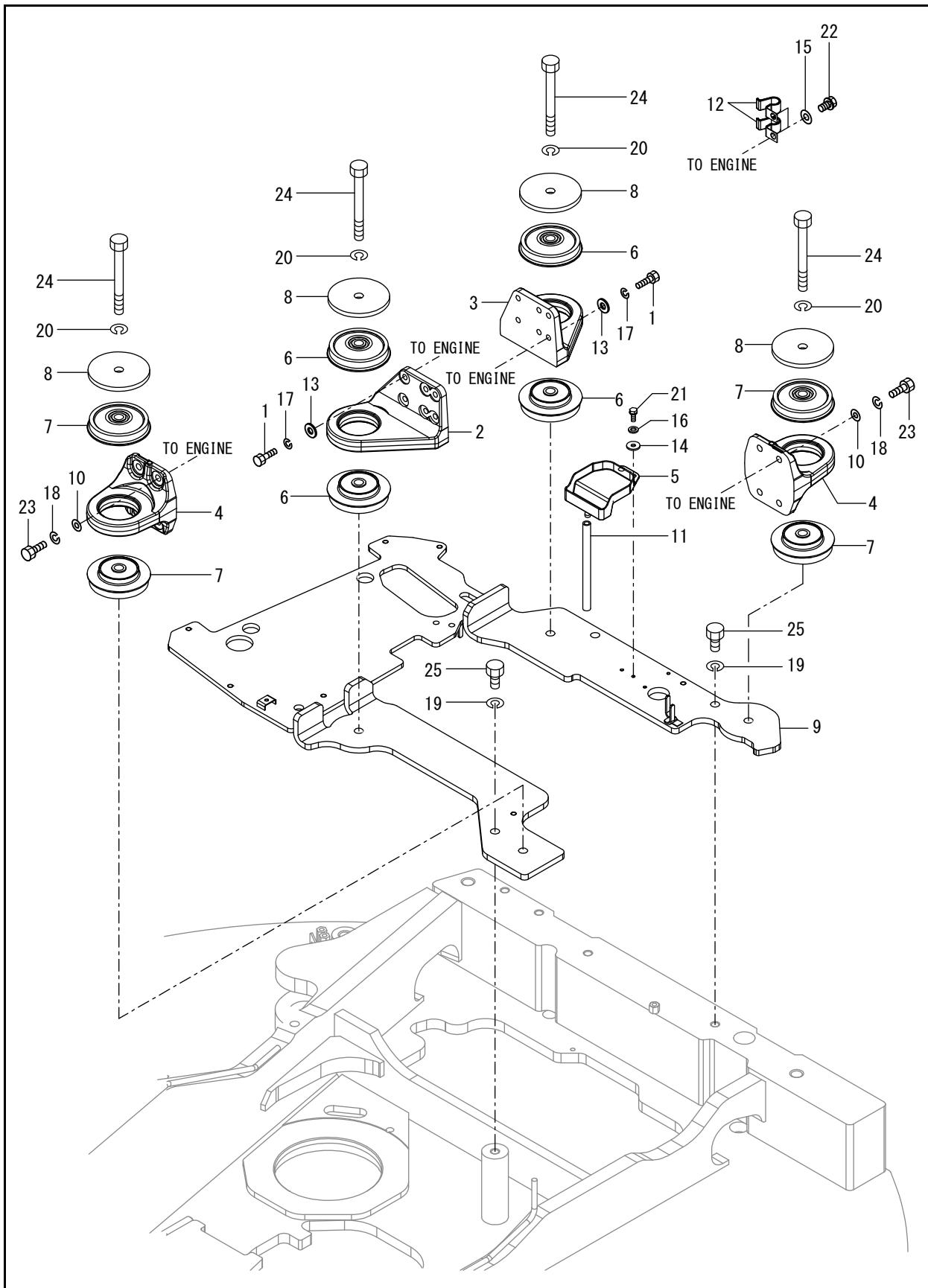
Z80 - COMPACT EXCAVATOR
FIG. 9 - ACCELERATOR

Ref.

No.	Part No.	Description	Qty.
1	50281556	VOLUME, ACCEL ASSY	1
7	50281557	KNOB ASSY,ACCEL	1

Z80 - COMPACT EXCAVATOR

FIG. 10 - ENGINE MOUNT



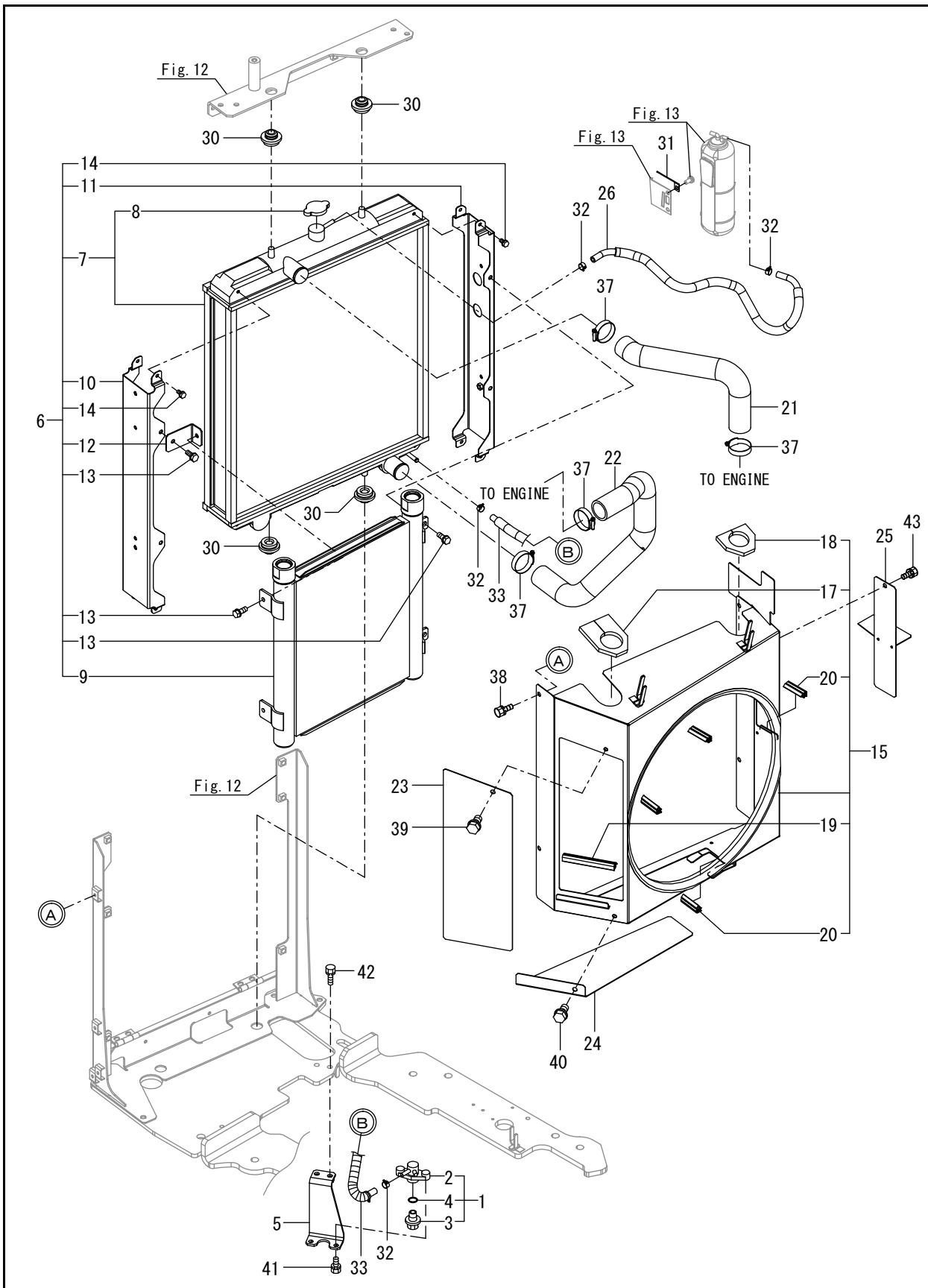
Z80 - COMPACT EXCAVATOR
FIG. 10 - ENGINE MOUNT

Ref.

No.	Part No.	Description	Qty.
1	50281411	BOLT 10X35,11T	12
2	50288377	BRACKET	1
3	50288378	BRACKET	1
4	50288379	BRACKET	2
5	50282097	OIL SAUCER	1
6	50288380	FRONT ENGINE MOUNT	4
7	50288381	REAR ENGINE MOUNT	4
8	50288382	FLAT WASHER 17X115X9	4
9	50288383	BASE PLATE	1
10	50280893	WASHER	8
11	50280801	HOSE, FUEL GAUGE	1
12	50280774	CLAMP(B)	2
13	50280803	SEAT, SPRING	12
14	138110	WASHER	2
15	138111	WASHER/POLISHED	2
16	50282385	WASHER 6	2
17	50282393	SPRING WASHER 10	12
18	425-34902	SPRING WASHER 12	8
19	50282396	SPRING WASHER 16	4
20	50282396	SPRING WASHER 16	4
21	50282502	BOLT M 6X 16	2
22	50282514	BOLT M10X 16	2
23	50284108	BOLT M12 X 30	8
24	50282554	BOLT 16*130	4
25	50282569	BOLT M16X 35 PLATED	4

Z80 - COMPACT EXCAVATOR

FIG. 11 - RADIATOR



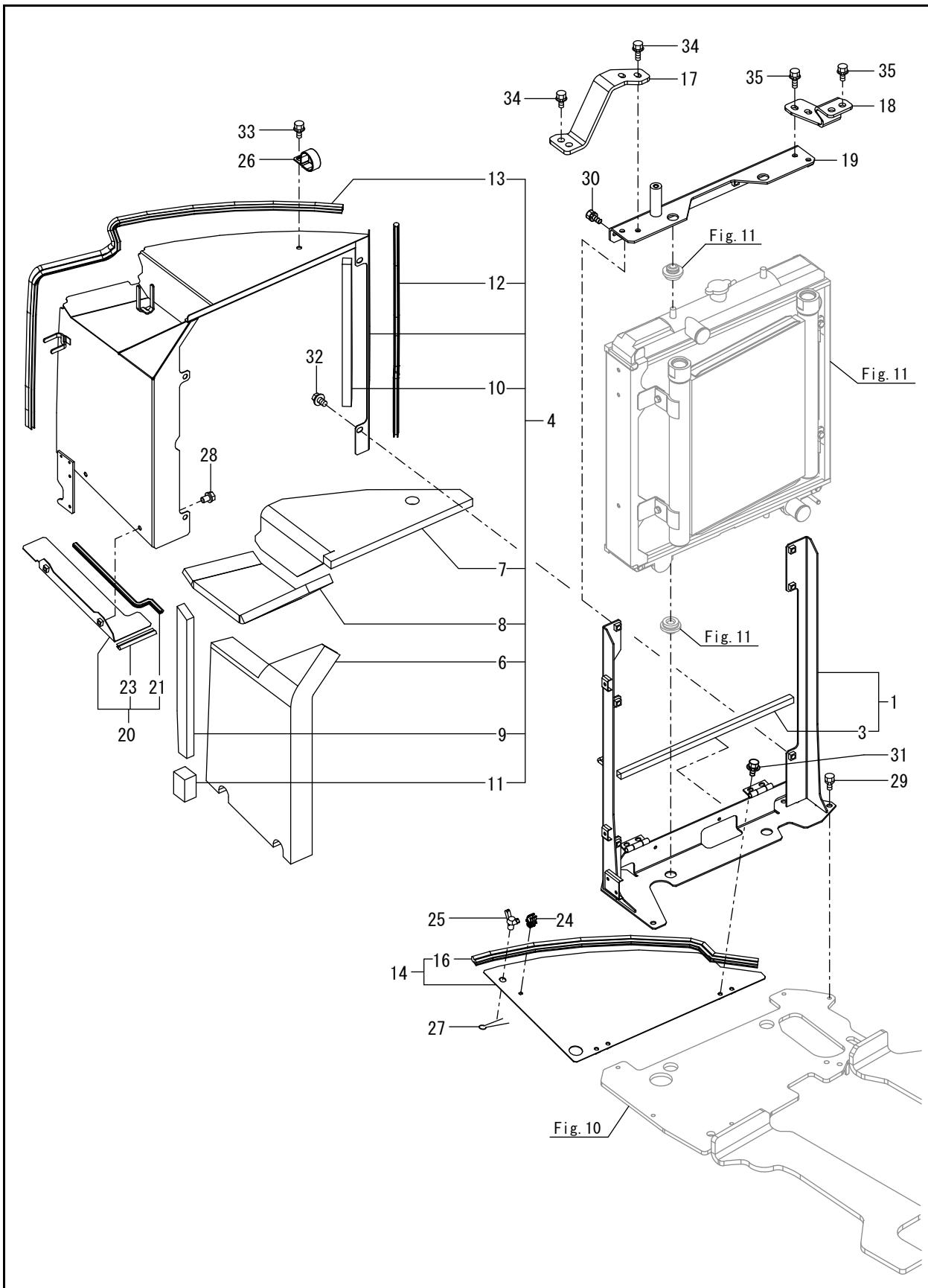
Z80 - COMPACT EXCAVATOR
FIG. 11 - RADIATOR

Ref.

No.	Part No.	Description	Qty.
1	50281046	COCK ASSY,2-WAY	1
2	50281047	BODY	1
3	50280728	PLUG	1
4	425-34744	O-RING 1A P-16.0	1
5	50281566	PLATE ASSY	1
6	50288384	RADIATOR ASSY	1
7	50288385	RADIATOR	1
8	186470	CAP RADIATOR	1
9	50288386	OIL COOLER	1
10	50288387	SUPPORT ASSY	1
11	50288388	SUPPORT ASSY	1
12	50288389	BRACKET	2
13	50282105	BOLT M8	6
14	50282106	BOLT M6	8
15	50288391	SHROUD	1
17	50282109	EV A,SHROUD	1
18	50288392	SEAL SPONG	1
19	50281138	RUBBER,SEAL 120	1
20	50281139	RUBBER,SEAL 55	2
21	50282111	CW-T,A	1
22	50288393	HOSE	1
23	50282119	COVER A,SHROUD	1
24	50282120	COVER B,SHROUD	1
25	50282121	COVER C ASSY,SHROUD	1
26	50288248	HOSE ASSY	1
30	50282346	RUBBER, RADIATOR	4
31	50288855	CLAMP	1
32	425-34916	CLAMP 12	4
33	50282345	PIPE ASSY, FUEL	1
37	50282431	CLIP, HOSE	4
38	50282506	BOLT W/WASHER M8X16	4
39	50282506	BOLT W/WASHER M8X16	1
40	50282506	BOLT W/WASHER M8X16	1
41	50282506	BOLT W/WASHER M8X16	2
42	50282517	BOLT M10X 30	2
43	50282533	BOLT M 8X 16	4

Z80 - COMPACT EXCAVATOR

FIG. 12 - RADIATOR MOUNT



Z80 - COMPACT EXCAVATOR
FIG. 12 - RADIATOR MOUNT

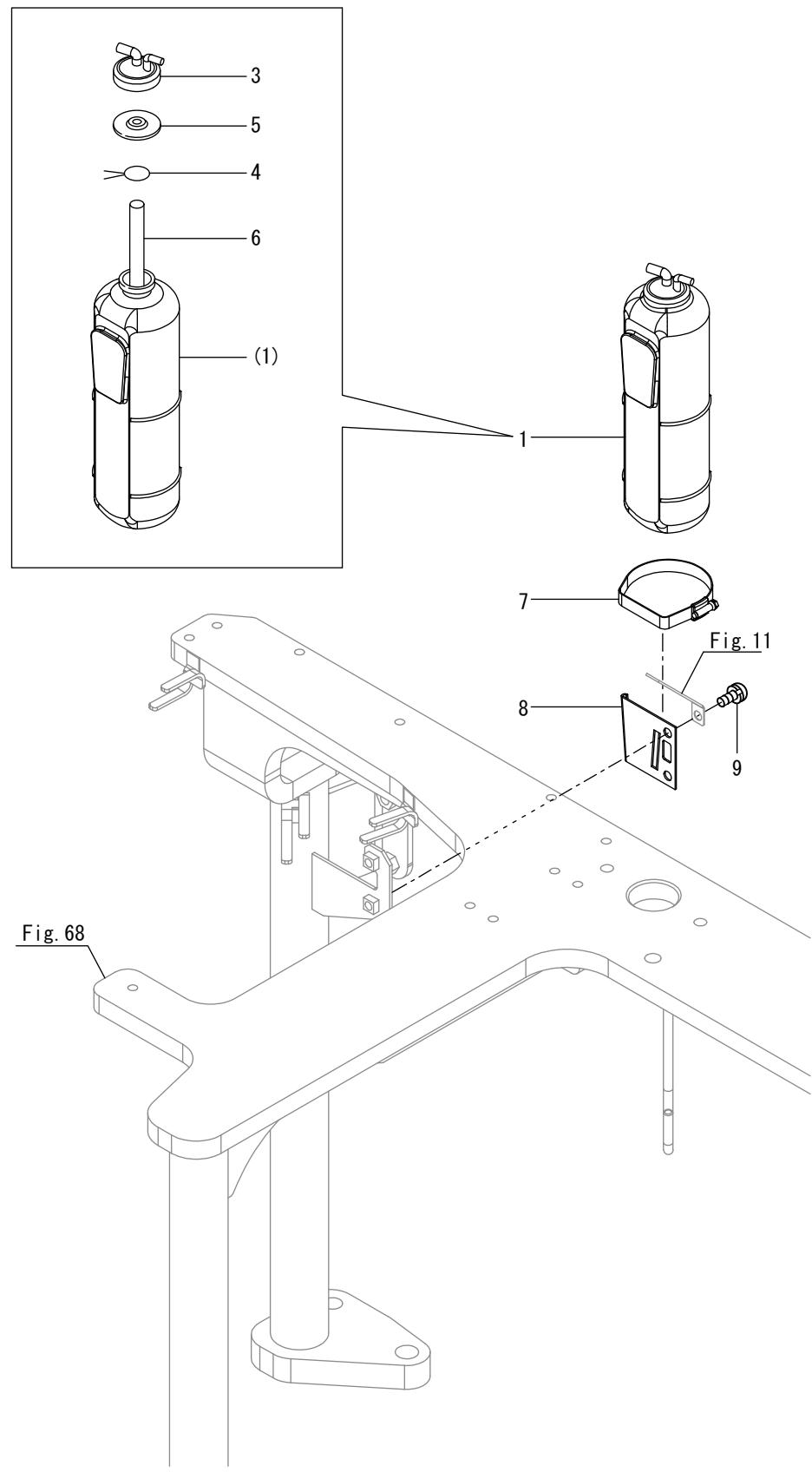
Ref.

No.	Part No.	Description	Qty.
1	50288390	RADIATOR BRACKET	1
3	50281227	SEAL A,DUCT	1
4	50288394	RADIATOR DUCT ASSY	1
6	50288395	DUCT PAD	1
7	50288396	DUCT PAD	1
8	50288397	DUCT PAD	1
9	50288398	DUCT PAD	1
10	50288399	DUCT PAD	1
11	50288401	DUCT PAD	1
12	50285594	SEAL,600	1
13	50285601	SEAL,1170	1
14	50288400	DUCT COVER ASSY (replacement also requires labels 16A, 16B)	1
16	50282230	RUBBER,SEAL 670	1
16A	50281551	LABEL,BATTERY COVER *	1
16B	50281024	LABEL, BATTERY US *	1
17	50288402	RADIATOR BRACKET	1
18	50288403	RADIATOR BRACKET	1
19	50288404	BRACKET ASSY (replacement also requires label 19A)	1
19A	50281459	LABEL,ANTI-FREEZING *	1
20	50288405	DUCT SUPPORT ASSY	1
21	50285408	RUBBER, CUSHION 300	1
23	50288231	RUBBER SEAL	1
24	50282365	HOLDER, ROD 8	1
25	50280817	WING BOLT,M10X20	1
26	50280827	PLATE, CLAMP	1
27	50282420	COTTER PIN 3.2X20	1
28	50282505	BOLT M 8X 12	2
29	50282515	BOLT W/WASHER M10X20	4
30	50282515	BOLT W/WASHER M10X20	2
31	50282533	BOLT M 8X 16	1
32	50282538	BOLT M10X 20	4
33	50282538	BOLT M10X 20	1
34	50282539	BOLT 10X25 W/PLW+SPW	4
35	50282539	BOLT 10X25 W/PLW+SPW	4

NOTE: * Labels shown on Page 6

Z80 - COMPACT EXCAVATOR

FIG. 13 - RADIATOR SUB TANK



Z80 - COMPACT EXCAVATOR
FIG. 13 - RADIATOR SUB TANK

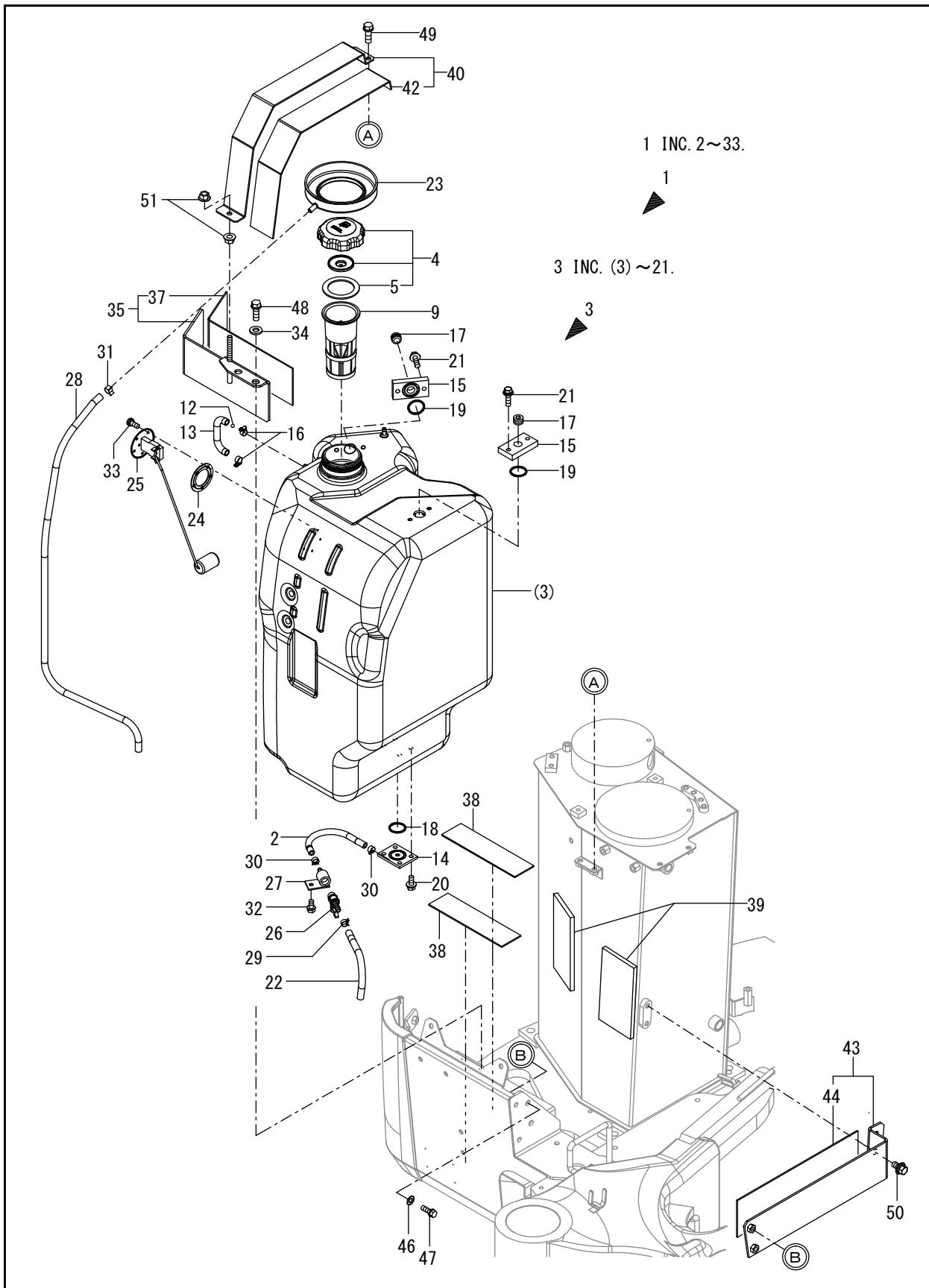
Ref.

No.	Part No.	Description	Qty.
1	50280743	SUB-TANK ASSY (replacement also requires label 6A)	1
3	186359	CAP	1
4	186461	CLAMP	1
5	186361	GASKET	1
6	50282436	HOSE 7X 225	1
6A	50281458	LABEL, SUB-TANK US *	1
7	425-36235	BAND	1
8	425-36152	BRACKET/SUB-TANK	1
9	50282541	SCREW M 8X 16	2

NOTE: * Label shown on Page 6

Z80 - COMPACT EXCAVATOR

FIG. 14 - FUEL TANK



Z80 - COMPACT EXCAVATOR**FIG. 14 - FUEL TANK**

Ref.

No. Part No.

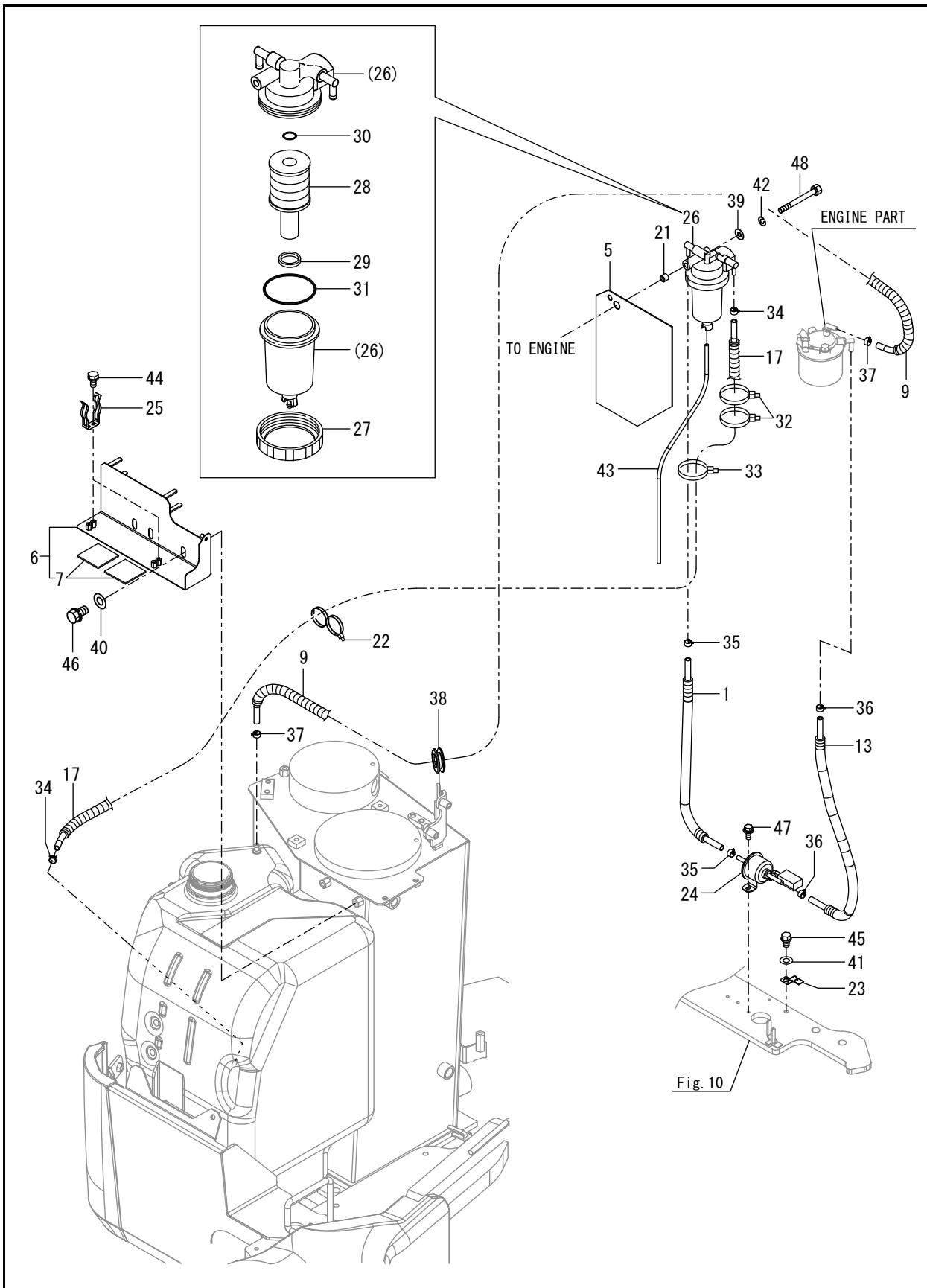
Description

Qty.

1	50282614	FUEL OIL TANK ASSY	1
2	50280800	PIPE, WATER DRAIN	1
3	50281569	TANK ASSY	1
4	50282358	CAP ASSY,FILLER	1
5	50282359	GASKET,FILLER CAP	1
9	50281570	NET ASSY,FUEL INLET	1
12	50281060	FLOAT	1
13	50281131	HOSE, FUEL GAUGE	1
14	50281572	BLOCK ASSY, DRAIN	1
15	50281574	PLATE, R1/2	2
16	425-34918	CLAMP 13	2
17	188723	PLUG PT 1/2	2
18	425-34745	O-RING 1A P-32.0	1
19	425-34745	O-RING 1A P-32.0	2
20	50282507	BOLT W/WASHER M8X20	4
21	50282509	BOLT M 8X 30	4
22	50280922	HOSE, FUEL GAUGE	1
23	50281571	SUPPORT,RIB FO	1
24	50280854	GASKET	1
25	50282080	GAUGE UNIT, FUEL	1
26	50281573	VALVE,FUEL DRAIN	1
27	50281048	JOINT	1
28	50280926	HOSE	1
29	50280724	CLIP, HOSE	1
30	425-34916	CLAMP 12	2
31	50282437	CLAMP 13,HOSE	1
32	50282506	BOLT W/WASHER M8X16	1
33	425-36271	SCREW M 5 X 12	5
34	50282350	WASHER 10	2
35	50281576	BRACKET ASSY, F	1
37	50281577	RUBBER, PLATE A	1
38	50281578	RUBBER PLATE,D	2
39	50282125	RUBBER SPONGE	2
40	50281579	BRACKET ASSY, UP	1
42	50281580	RUBBER, PLATE B	1
43	50281581	BRACKET ASSY, L	1
44	50281577	RUBBER, PLATE A	1
46	138111	WASHER/POLISHED	2
47	50282517	BOLT M10X 30	2
48	50282517	BOLT M10X 30	2
49	50282517	BOLT M10X 30	2
50	50282538	BOLT M10X 20	2
51	50282578	U-NUT M10	2

Z80 - COMPACT EXCAVATOR

FIG. 15 - FUEL LINE

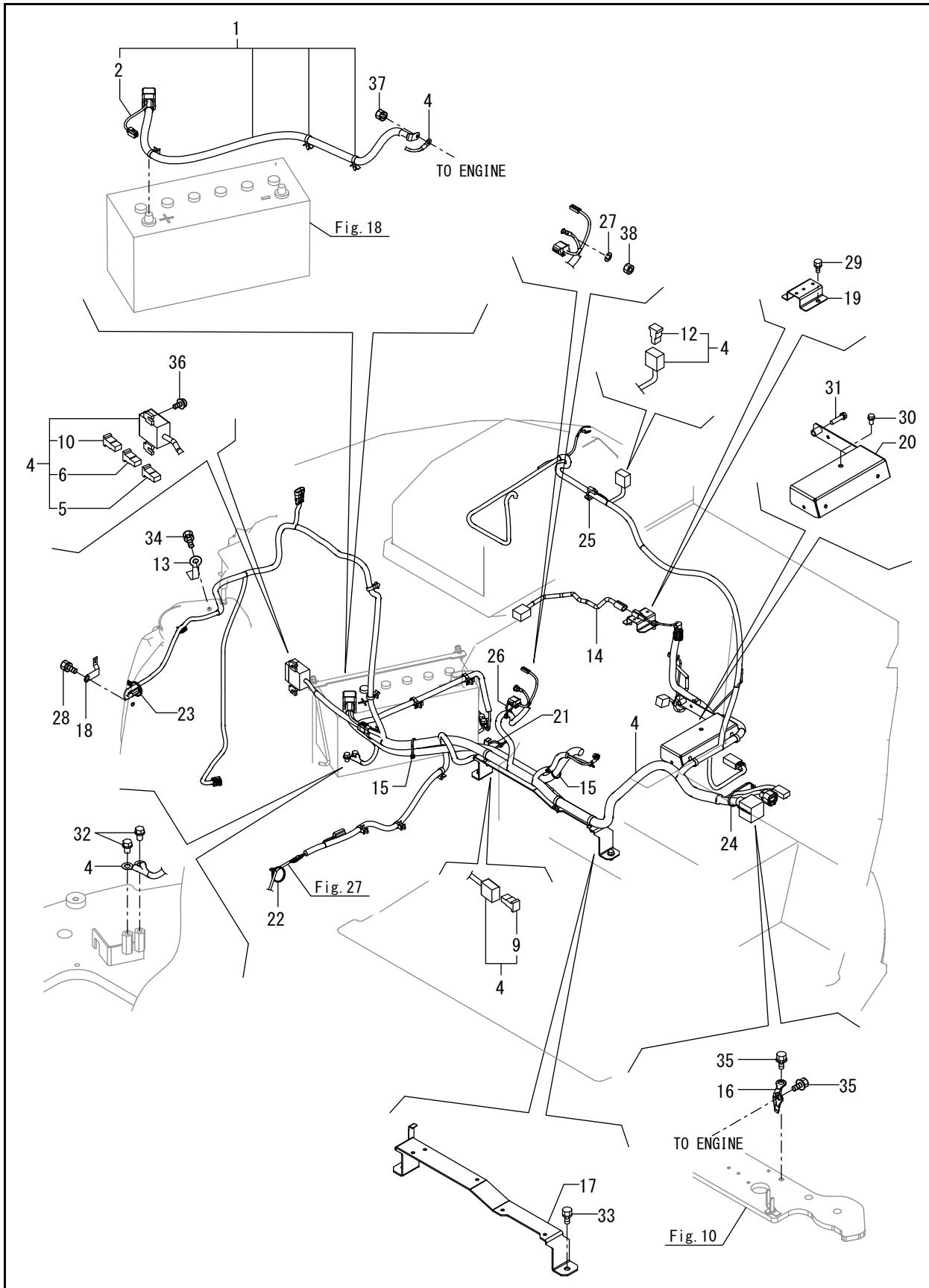


Z80 - COMPACT EXCAVATOR
FIG. 15 - FUEL LINE

Ref.

No.	Part No.	Description	Qty.
1	50280921	HOSE ASSY	1
5	50281575	RUBBER PLATE	1
6	50288406	BRACKET ASSY	1
7	50281056	RUBBER PLATE	2
9	50282126	HOSE ASSY 2080	1
13	50282127	HOSE ASSY,550	1
17	50281583	HOSE ASSY(2400	1
21	50282354	COLLAR 9.2X13.8X11	1
22	50280802	BAND	1
23	50281145	STAY A	1
24	186483	FUEL PUMP	1
25	50280784	BRACKET, GREASE PUMP	2
26	50282349	SEPARATOR ASSY,WATER	1
27	425-34924	RING, RETAINING	1
28	186340	FILTER	1
29	50286600	FLOAT	1
30	425-34744	O-RING 1A P-16.0	1
31	425-34927	O-RING 1A G65	1
32	50282352	BAND	2
33	50282352	BAND	1
34	425-34916	CLAMP 12	2
35	425-34916	CLAMP 12	2
36	425-34916	CLAMP 12	2
37	425-34916	CLAMP 12	2
38	50281008	GROMMET	1
39	50282380	WASHER 8, POLISHED	1
40	138111	WASHER/POLISHED	2
41	138111	WASHER/POLISHED	1
42	50282392	WASHER, 8	1
43	50282435	PIPE 5X500,VINYL	1
44	50282501	BOLT M 6X 12	4
45	50282514	BOLT M10X 16	1
46	50282514	BOLT M10X 16	2
47	50282531	BOLT M 6X 16	2
48	50282563	BOLT M 8X 80 PLATED	1

Z80 - COMPACT EXCAVATOR
FIG. 16 - ELECTRIC PART (ENGINE)



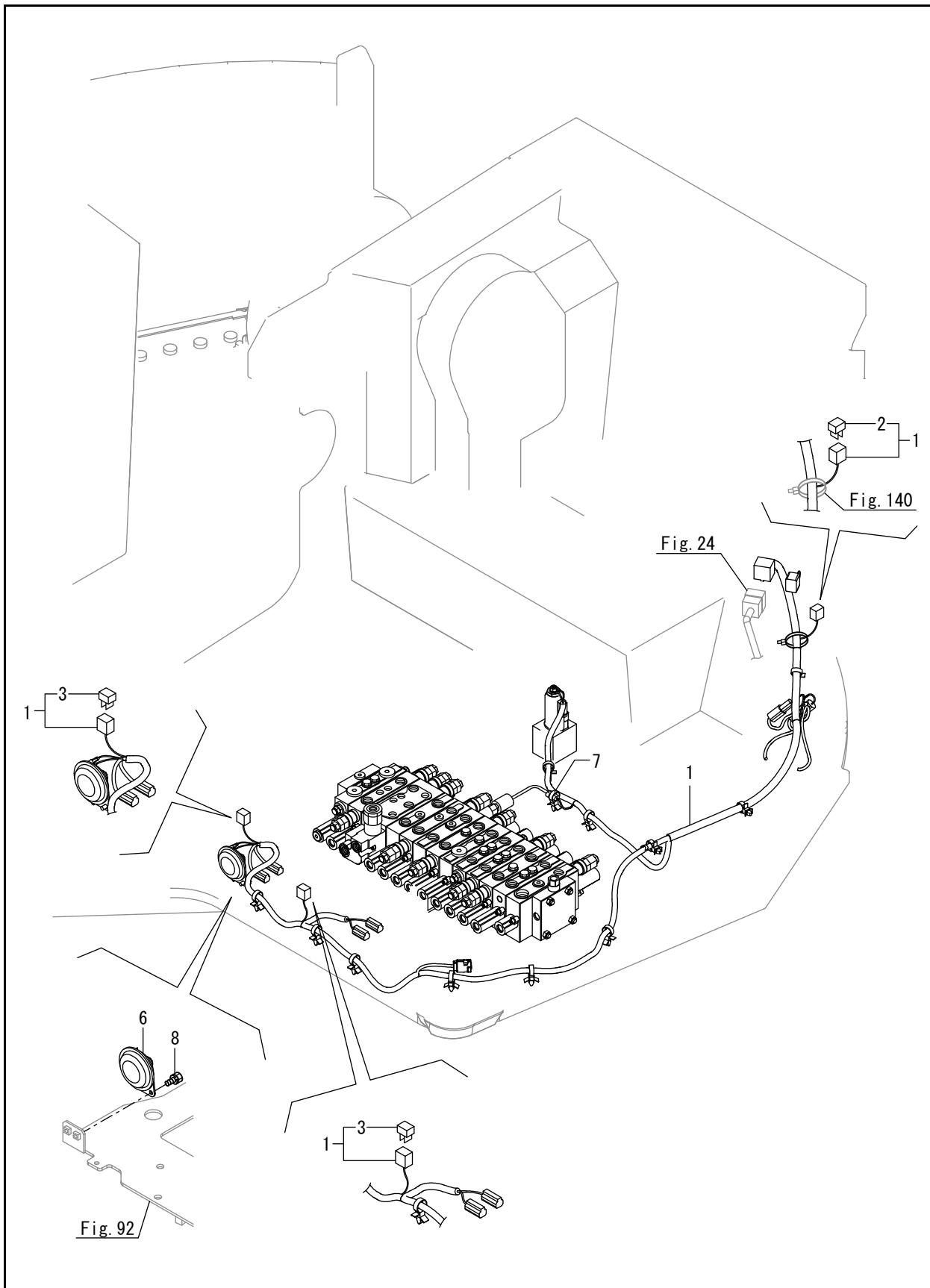
Z80 - COMPACT EXCAVATOR
FIG. 16 - ELECTRIC PART (ENGINE)

Ref.

No.	Part No.	Description	Qty.
1	50288407	POSITIVE BATTERY CABLE	1
2	50288408	BATTERY HARNESS	1
4	50288412	WIRE HARNESS	1
5	50288858	FUSE 80A	1
6	50281502	FUSE,SLOW BLOW 60A	1
9	50288857	FUSE 120A	1
10	50288863	FUSE 100A	1
12	50288860	DIODE 3A	1
13	50280799	CLAMP 10X70	1
14	50281501	HARNESS C	1
15	50280802	BAND	2
16	50280928	CODE, ENGINE EARTH	1
17	50288415	BRACKET	1
18	50281588	BRACKET,SWP 2P-M	1
19	50282134	CLAMP,HARNESS	1
20	50288419	HARNESS SUPPORT	1
21	50282352	BAND	1
22	50282352	BAND	1
23	50282352	BAND	1
24	50282352	BAND	1
25	50282352	BAND	1
26	50282352	BAND	1
27	50282392	WASHER, 8	1
28	50282506	BOLT W/WASHER M8X16	1
29	50282506	BOLT W/WASHER M8X16	2
30	50282506	BOLT W/WASHER M8X16	1
31	50285902	BOLT M8 X 35	1
32	50282514	BOLT M10X 16	3
33	50282515	BOLT W/WASHER M10X20	2
34	50282533	BOLT M 8X 16	1
35	50282537	BOLT M10X16	2
36	50282545	SCREW, M6X12	2
37	50282548	NUT M 8	1
38	50282596	NUT M 8	1

Z80 - COMPACT EXCAVATOR

FIG. 17 - ELECTRIC PART (CONTROL VALVE PLATE)

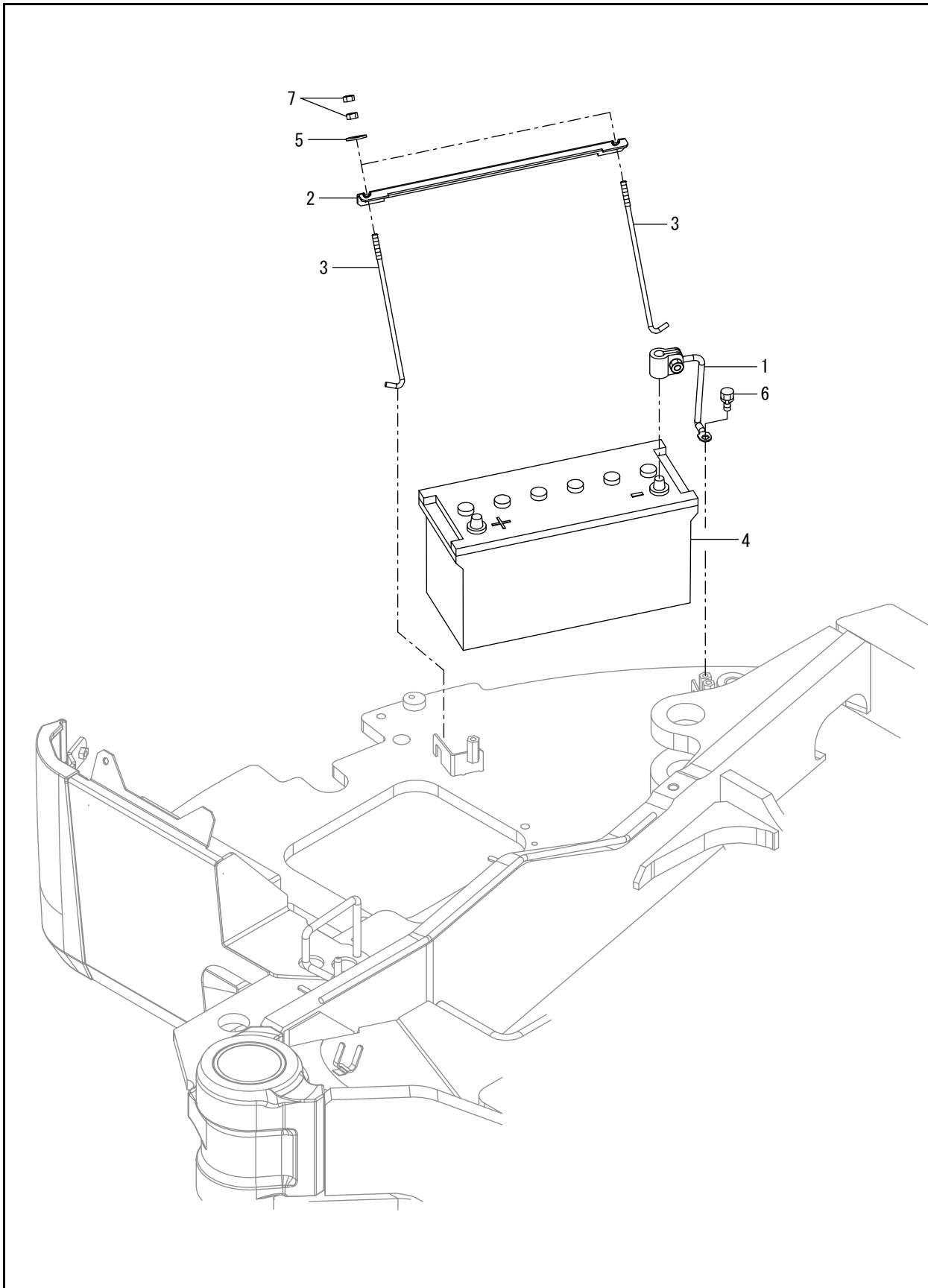


Z80 - COMPACT EXCAVATOR
FIG. 17 - ELECTRIC PART (CONTROL VALVE PLATE)

Ref.

No.	Part No.	Description	Qty.
1	50288414	WIRE HARNESS	1
2	50288246	DIODE 1.5 3PA	1
3	50288861	DIODE 1.5A	2
6	50282351	HORN	1
7	50282373	BAND CLAMP	1
8	50282501	BOLT M 6X 12	2

Z80 - COMPACT EXCAVATOR
FIG. 18 - ELECTRIC PART (BATTERY)



Z80 - COMPACT EXCAVATOR
FIG. 18 - ELECTRIC PART (BATTERY)

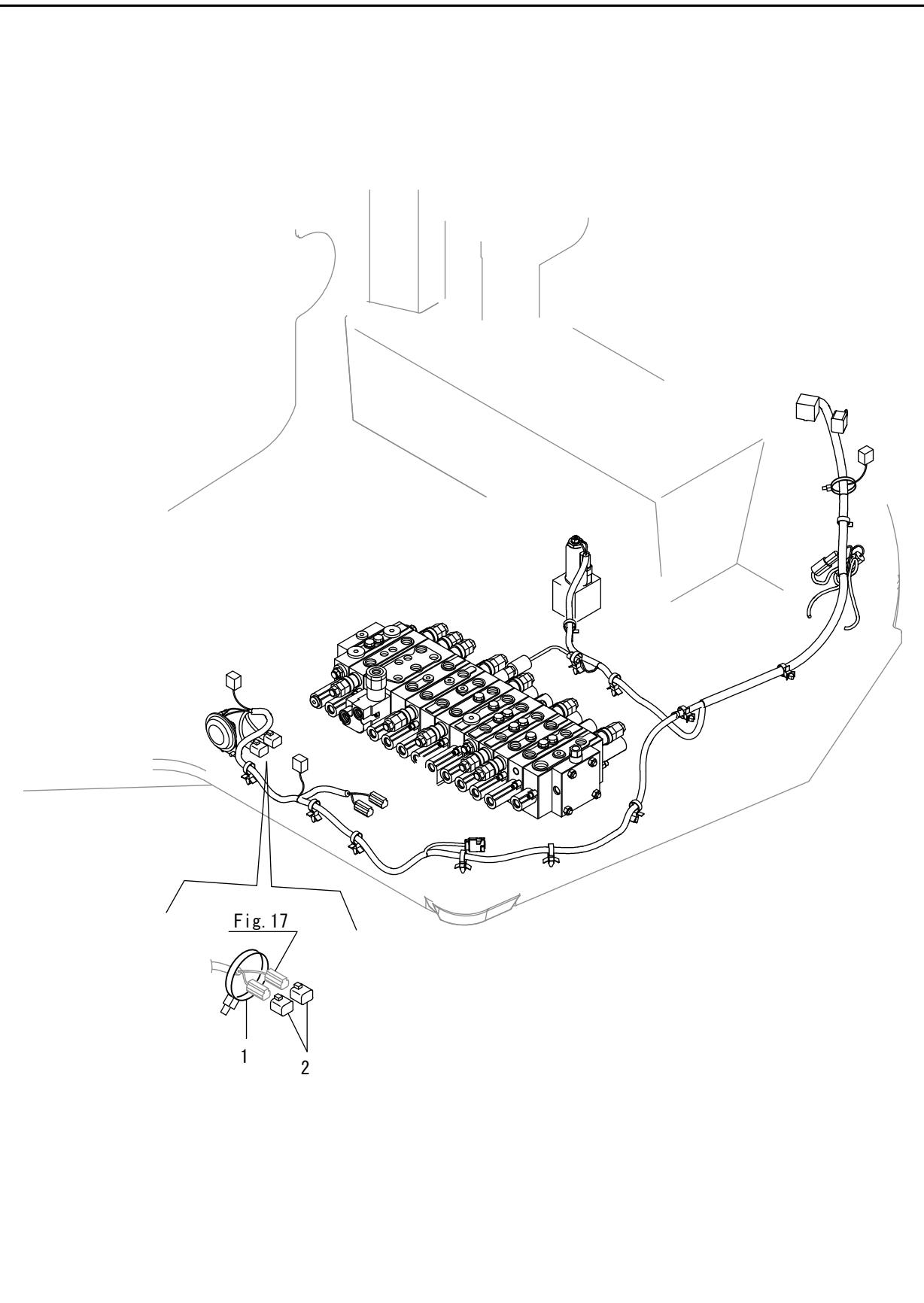
Ref.

No.	Part No.	Description	Qty.
1	50280927	BATTERY CABLE/NEGATIVE	1
2	50280773	RETAINER, BATTERY	1
3	50280887	ROD	2
4	N/A	BATTERY *	1
5	186593	WASHER 8	2
6	50282514	BOLT M10X 16	1
7	50282596	NUT M 8	4

NOTE: * Purchase locally. Group size 95R; 650 CCA

Z80 - COMPACT EXCAVATOR

FIG. 19 - ELECTRIC PART (DUMMY CONNECTOR)

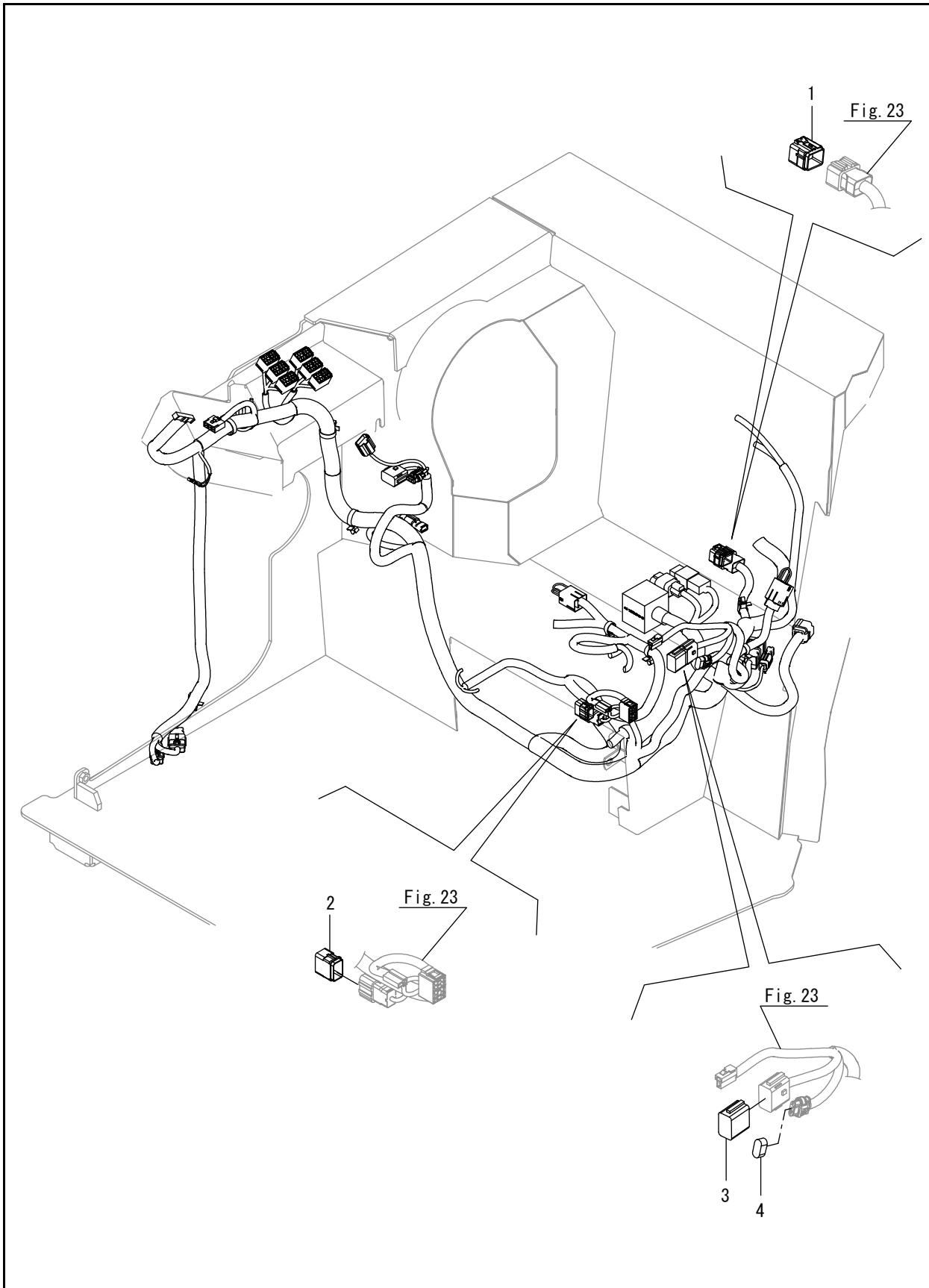


Z80 - COMPACT EXCAVATOR
FIG. 19 - ELECTRIC PART (DUMMY CONNECTOR)

Ref.

No.	Part No.	Description	Qty.
1	50280798	BAND 300	1
2	50288258	CONNECTOR BLANK	2

Z80 - COMPACT EXCAVATOR
FIG. 20 - ELECTRIC PART (COUPLER)



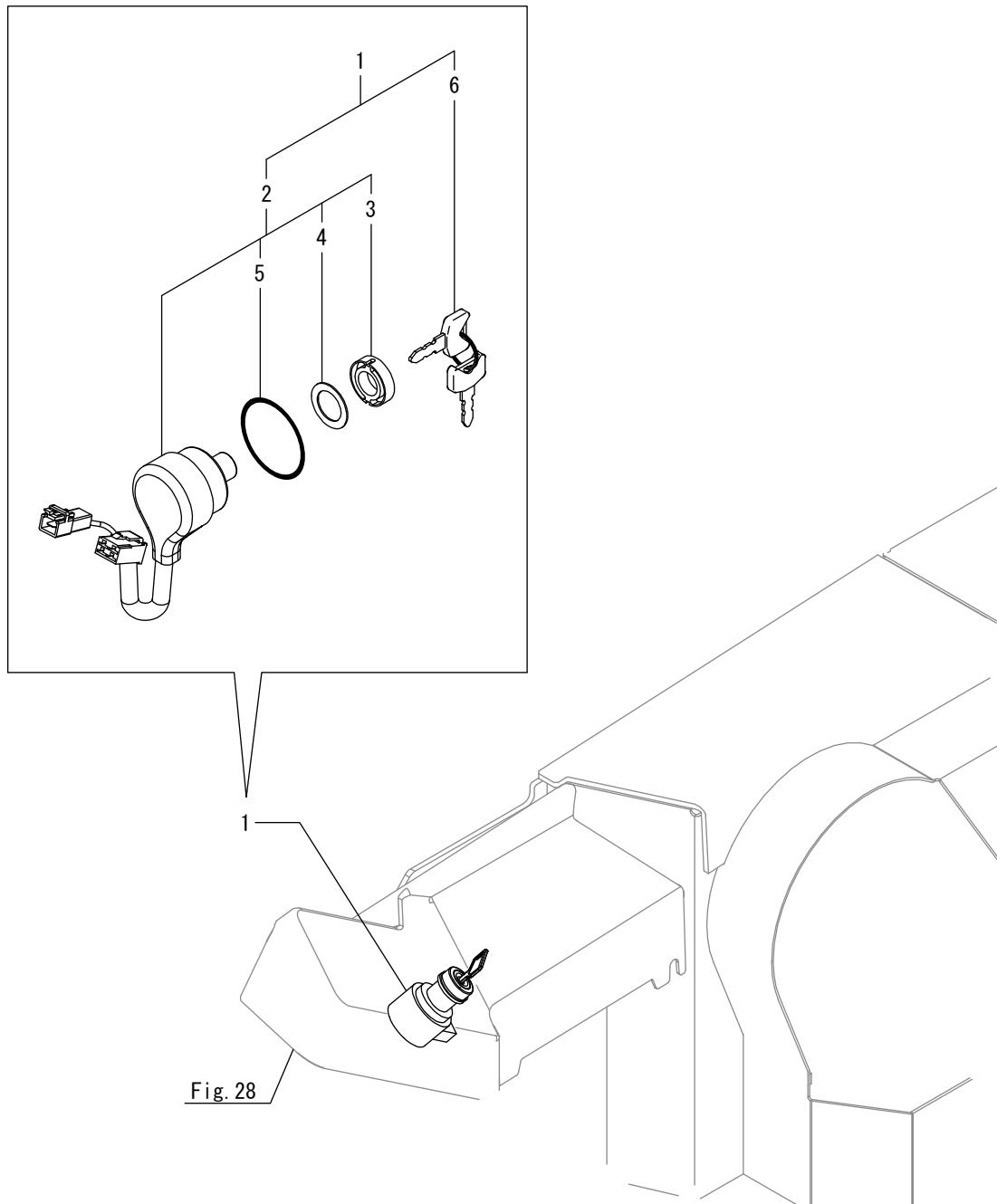
Z80 - COMPACT EXCAVATOR
FIG. 20 - ELECTRIC PART (COUPLER)

Ref.

No.	Part No.	Description	Qty.
1	50288420	CONNECTOR	1
2	50288421	CONNECTOR	1
3	50288417	CONNECTOR	1
4	50288418	CONNECTOR	1

Z80 - COMPACT EXCAVATOR

FIG. 21 - ELECTRIC PART (STARTING SWITCH)



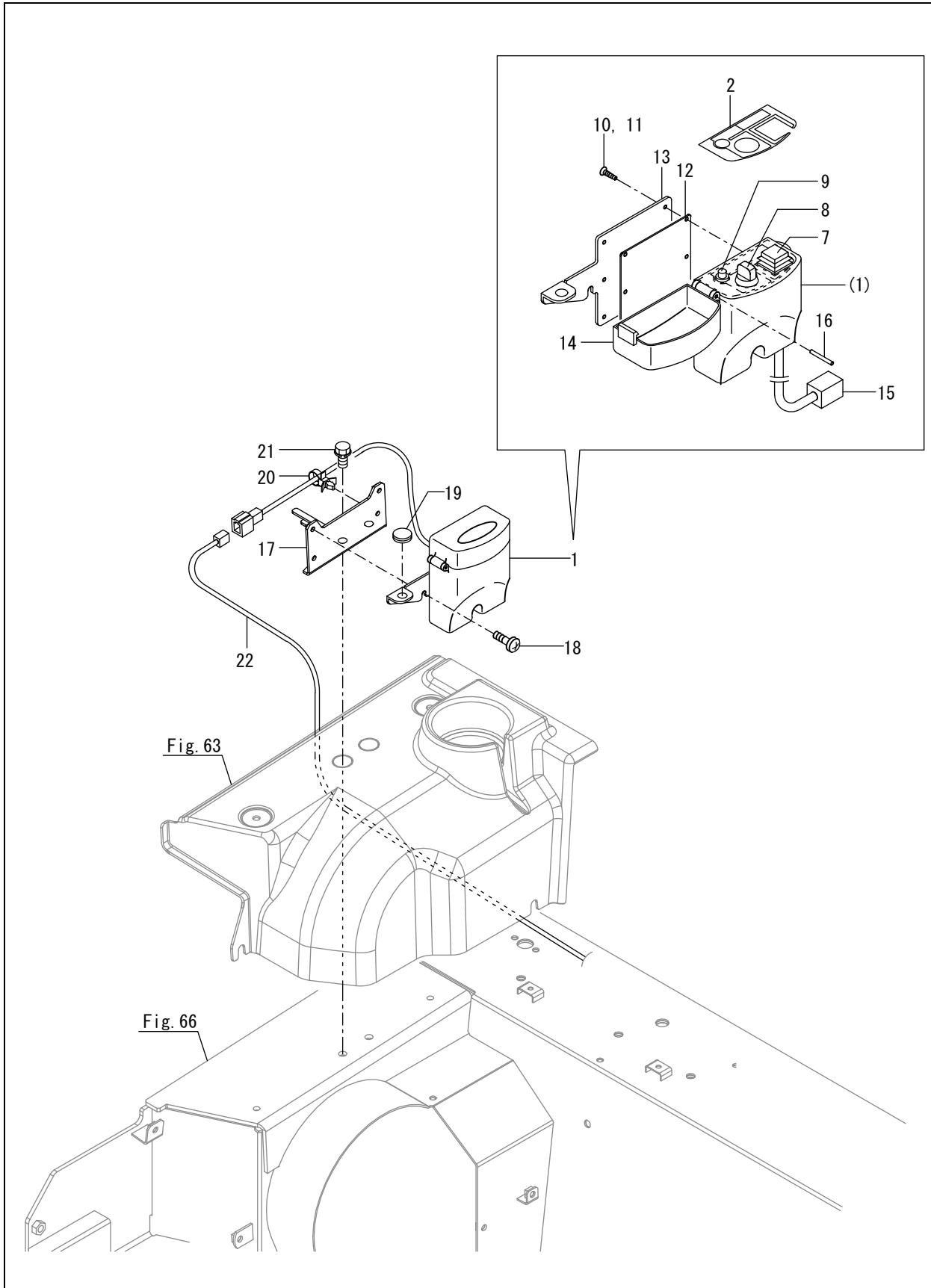
Z80 - COMPACT EXCAVATOR
FIG. 21 - ELECTRIC PART (STARTING SWITCH)

Ref.

No.	Part No.	Description	Qty.
1	50288847	IGNITION SWITCH W/KEYS	1
2	50288424	IGNITION SWITCH W/O KEYS	1
3	50288425	NUT	1
4	50288426	WASHER	1
5	50288427	O-RING	1
6	50288194	KEY ASSY, SET OF 2	1

Z80 - COMPACT EXCAVATOR

FIG. 22 - ELECTRIC PART (QUICK HITCH SWITCH BOX)



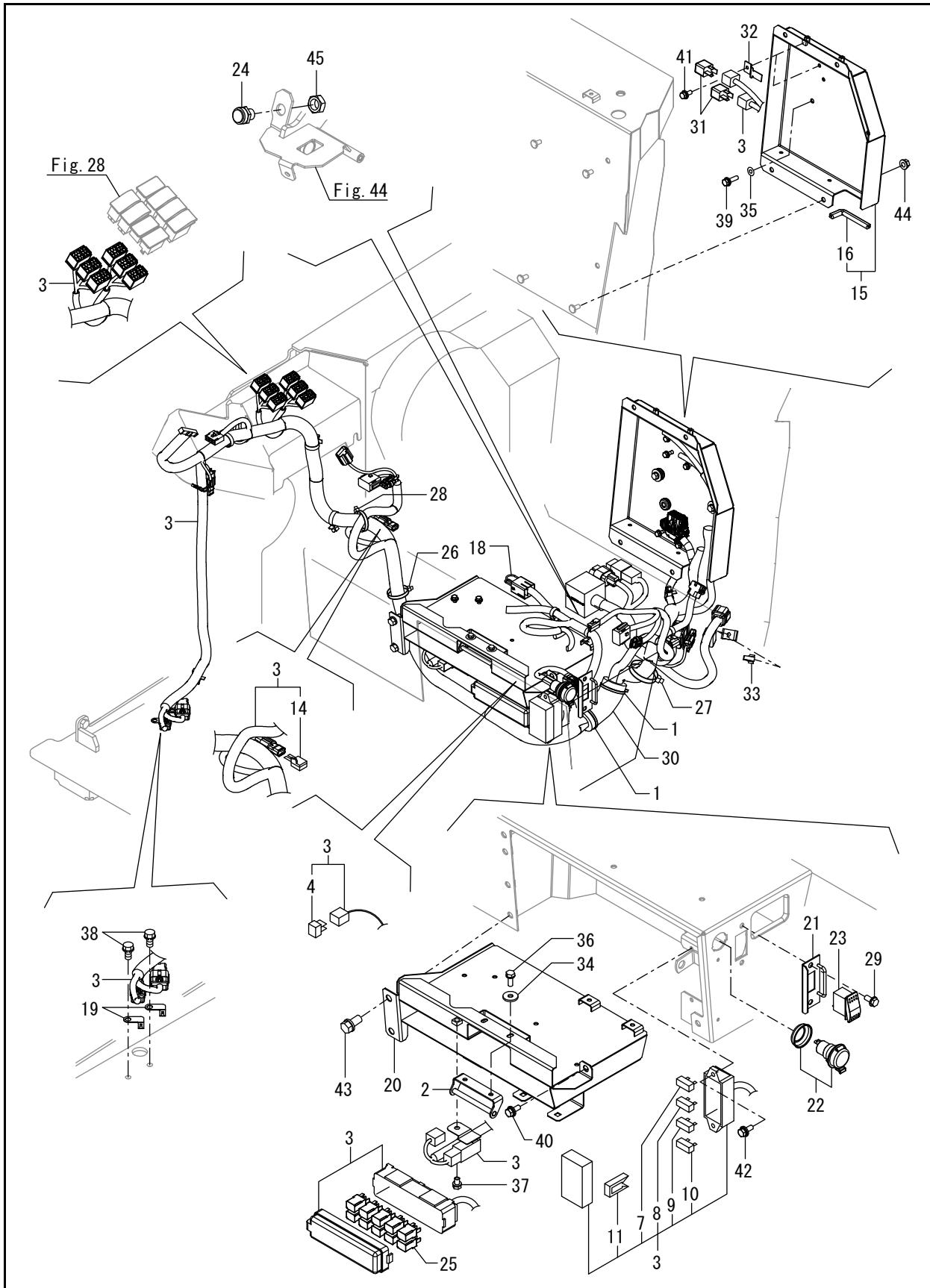
Z80 - COMPACT EXCAVATOR
FIG. 22 - ELECTRIC PART (QUICK HITCH SWITCH BOX)

Ref.

No.	Part No.	Description	Qty.
1	50288886	SWITCH BOX ASSY	1
2	50281179	LABEL/SWITCH	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	50282140	QH BRACKET ASSY	1
18	50280804	SCREW	2
19	50280948	PLUG	1
20	50282373	BAND CLAMP	1
21	50282516	BOLT W/WASHER M10X25	2
22	50288409	HITCH WIRE HARNESS	1

Z80 - COMPACT EXCAVATOR

FIG. 23 - ELECTRIC PART (SEAT MOUNT)



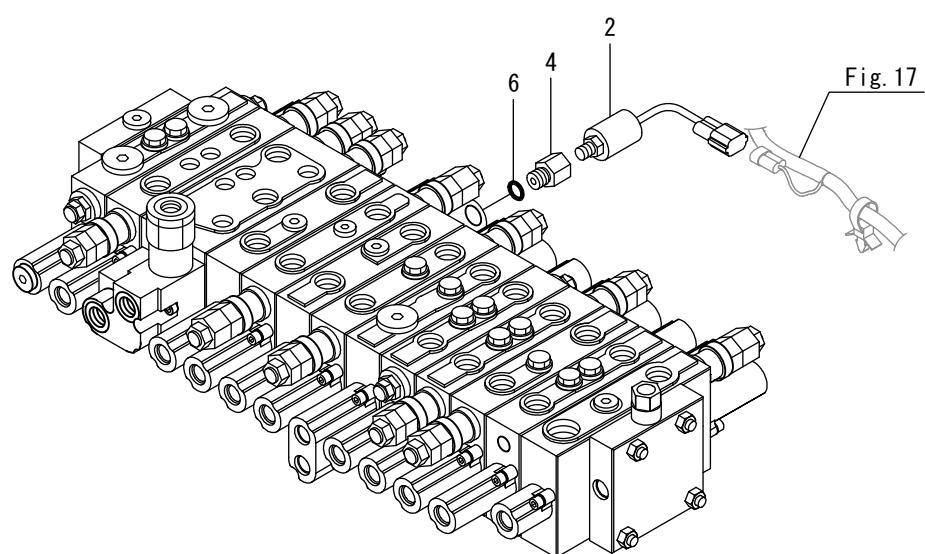
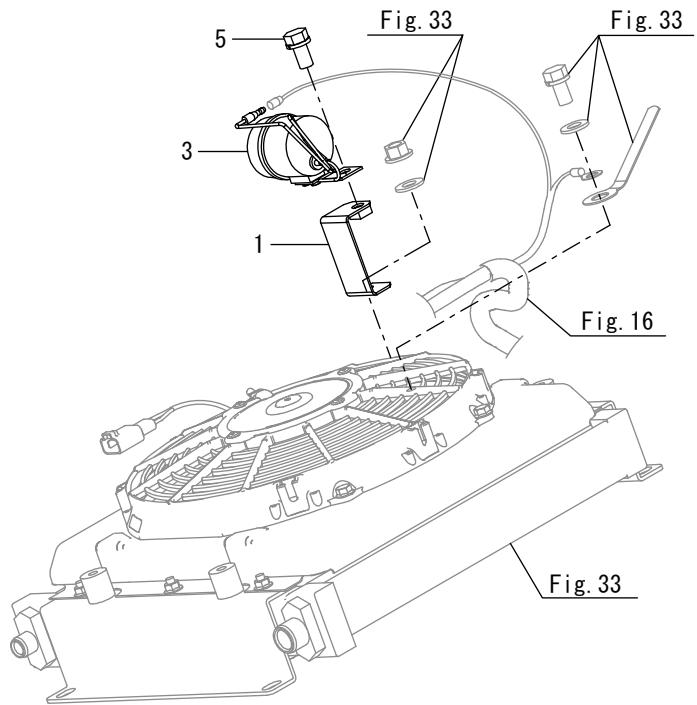
Z80 - COMPACT EXCAVATOR
FIG. 23 - ELECTRIC PART (SEAT MOUNT)

Ref.

No.	Part No.	Description	Qty.
1	50280798	BAND 300	2
2	50288410	CLASP	1
3	50288411	WIRE HARNESS	1
4	50288246	DIODE 1.5 3PA	1
7	50286740	FUSE	8
8	50286741	FUSE	5
9	50288854	FUSE, 20A	4
10	50286746	FUSE	4
11	50288122	MINI FUSE PULLER	1
14	50288860	DIODE 3A	5
15	50288413	ECU SUPPORT ASSY	1
16	50281127	RUBBER 100	1
18	50288249	WIRE HARNESS	1
19	50281588	BRACKET, SWP 2P-M	2
20	50288423	BRACKET ASSY	1
21	50282141	PLATE ASSY, SWITCH	1
22	50281499	SOCKET ASSY	1
23	50281601	SWITCH, ENGINE STOP	1
24	50282353	SWITCH, SAFETY START	1
25	50288856	RELAY	10
26	50282352	BAND	1
27	50282352	BAND	1
28	50282352	BAND	1
29	50281318	BOLT 8X 16	2
30	50281052	SPONGE	1
31	197662	RELAY (ISO 90A)	2
32	197319	BRACKET	2
33	50288862	BAND CLAMP	1
34	50282385	WASHER 6	2
35	186593	WASHER 8	2
36	50282501	BOLT M 6X 12	2
37	50282505	BOLT M 8X 12	1
38	50282506	BOLT W/WASHER M8X16	2
39	50282508	BOLT M 8X 25	2
40	50282514	BOLT M10X 16	3
41	50282531	BOLT M 6X 16	2
42	50282531	BOLT M 6X 16	2
43	50282538	BOLT M10X 20	3
44	50282548	NUT M 8	4
45	186626	NUT M18 LOCK	1

Z80 - COMPACT EXCAVATOR

FIG. 24 - ELECTRIC PART (TRAVEL ALARM)



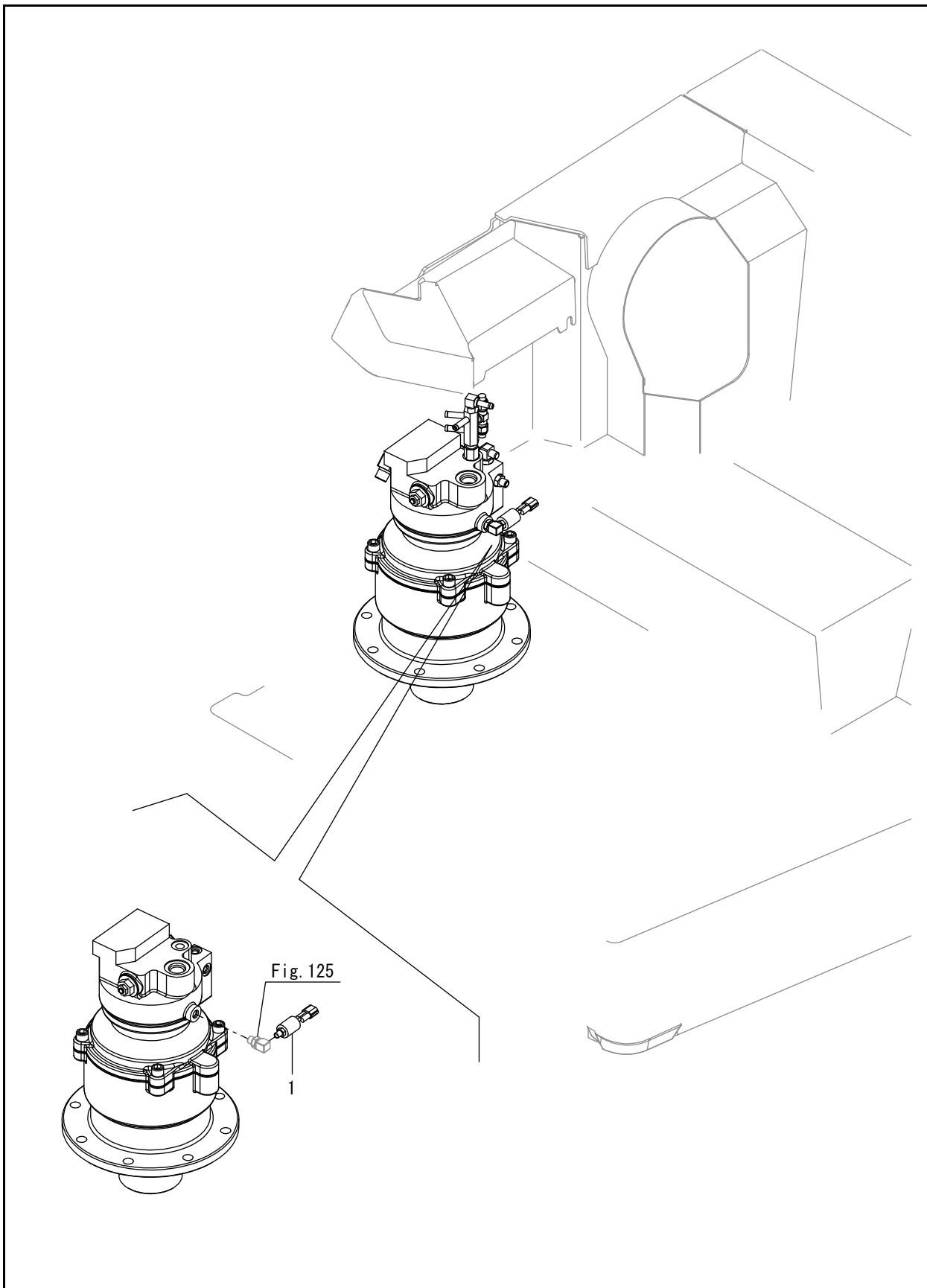
Z80 - COMPACT EXCAVATOR
FIG. 24 - ELECTRIC PART (TRAVEL ALARM)

Ref.

No.	Part No.	Description	Qty.
1	50288422	BUZZER BRACKET ASSY	1
2	50281182	PRESSER SWITCH,ASSY	1
3	50281317	BUZZER, BACK	1
4	50280848	CONNECTOR	1
5	50282506	BOLT W/WASHER M8X16	1
6	50282607	PACKING, 11.0	1

Z80 - COMPACT EXCAVATOR

FIG. 25 - ELECTRIC PART (HYD. OIL SWITCH)

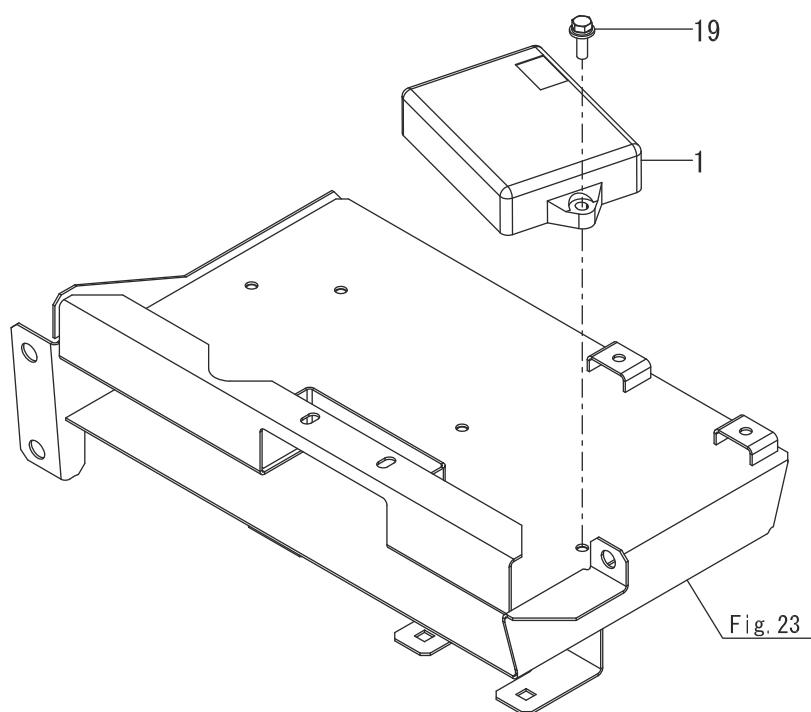


Z80 - COMPACT EXCAVATOR
FIG. 25 - ELECTRIC PART (HYD. OIL SWITCH)

Ref.	No. Part No.	Description	Qty.
1	50281182	PRESSURE SWITCH,ASSY	1

Z80 - COMPACT EXCAVATOR

FIG. 26 - ELECTRIC PART (ESS CONTROLLER, W/ AC ONLY)



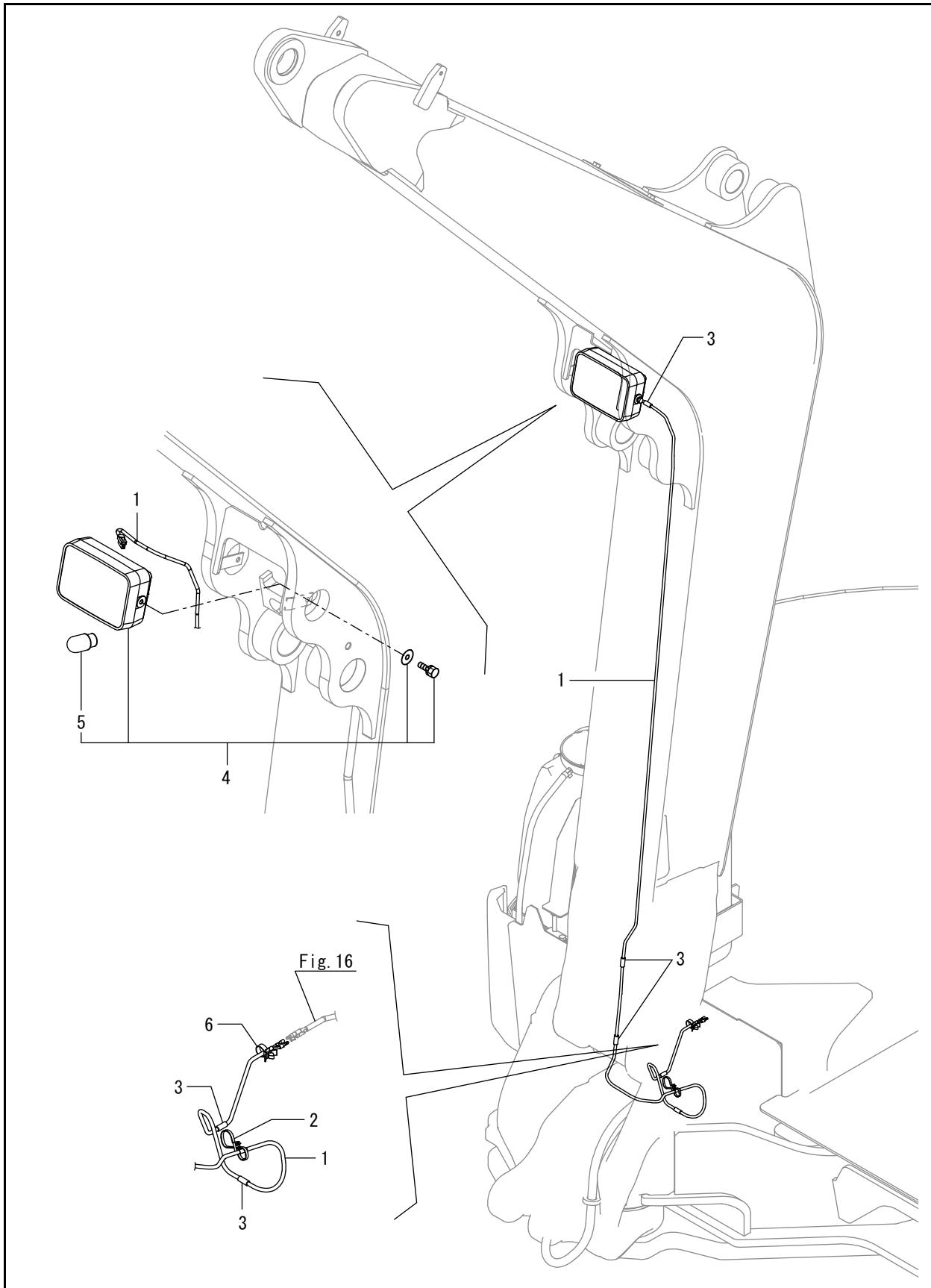
Z80 - COMPACT EXCAVATOR
FIG. 26 - ELECTRIC PART (ESS CONTROLLER, W/ AC ONLY)

Ref.

No.	Part No.	Description	Qty.
1	50288116	CONTROLLER (ESS) *	1
19	425-35319	BOLT WITH WASHER 6 X 20	2

NOTE: * To expedite ordering a replacement ESS Controller,
contact Customer Service and have the machine model number
and serial number at hand.

Z80 - COMPACT EXCAVATOR
FIG. 27 - ELECTRIC PART (WORK LAMP)



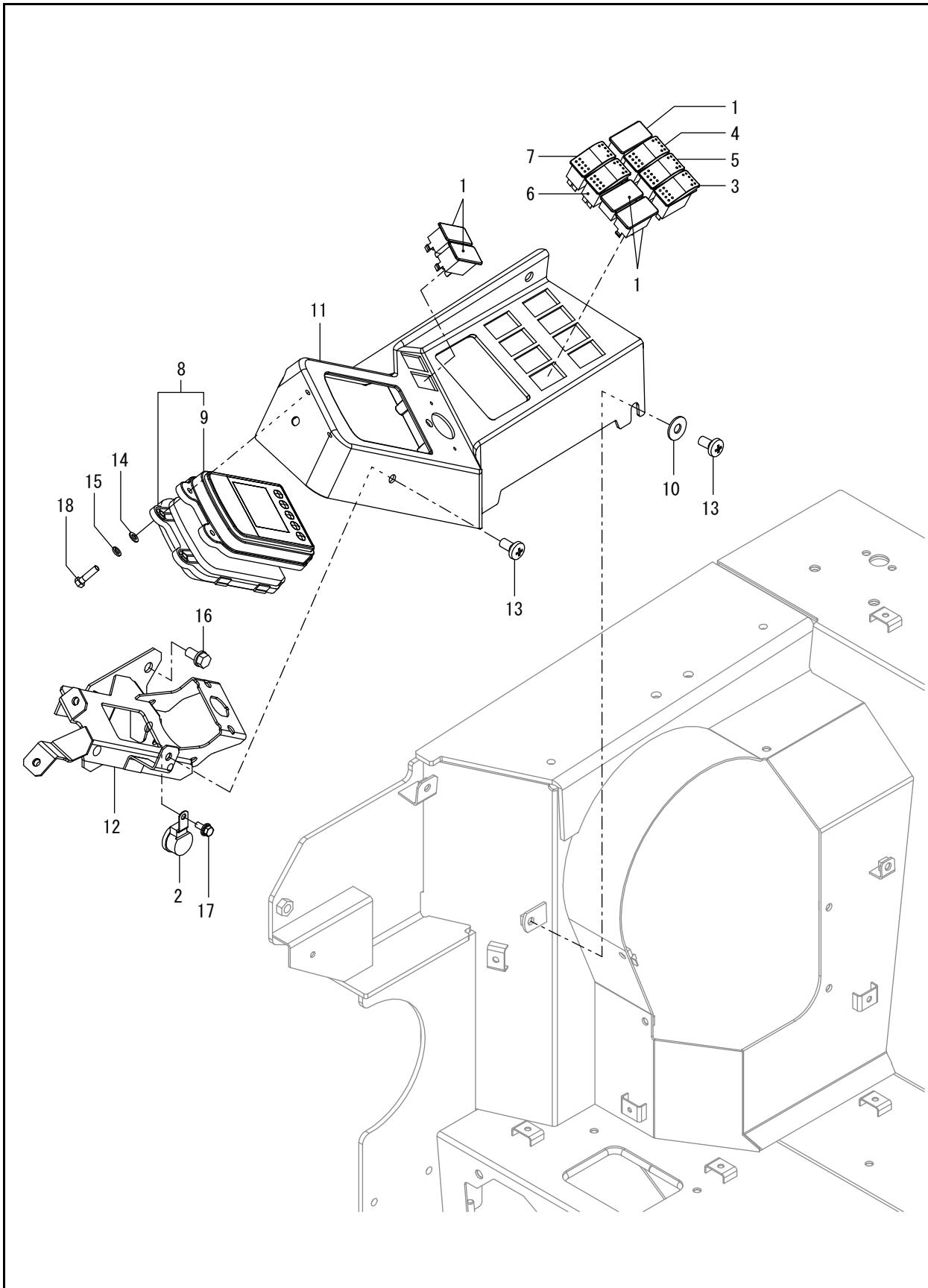
Z80 - COMPACT EXCAVATOR
FIG. 27 - ELECTRIC PART (WORK LAMP)

Ref.

No.	Part No.	Description	Qty.
1	50282129	HARNESS,BOOM	1
2	50280802	BAND	1
3	50288416	TIE	5
4	50280856	LAMP COMP.,WORKING	1
5	50280809	BULB 12V55W	1
6	50282373	BAND CLAMP	1

Z80 - COMPACT EXCAVATOR

FIG. 28 - ELECTRIC PART (INDICATOR BOX)



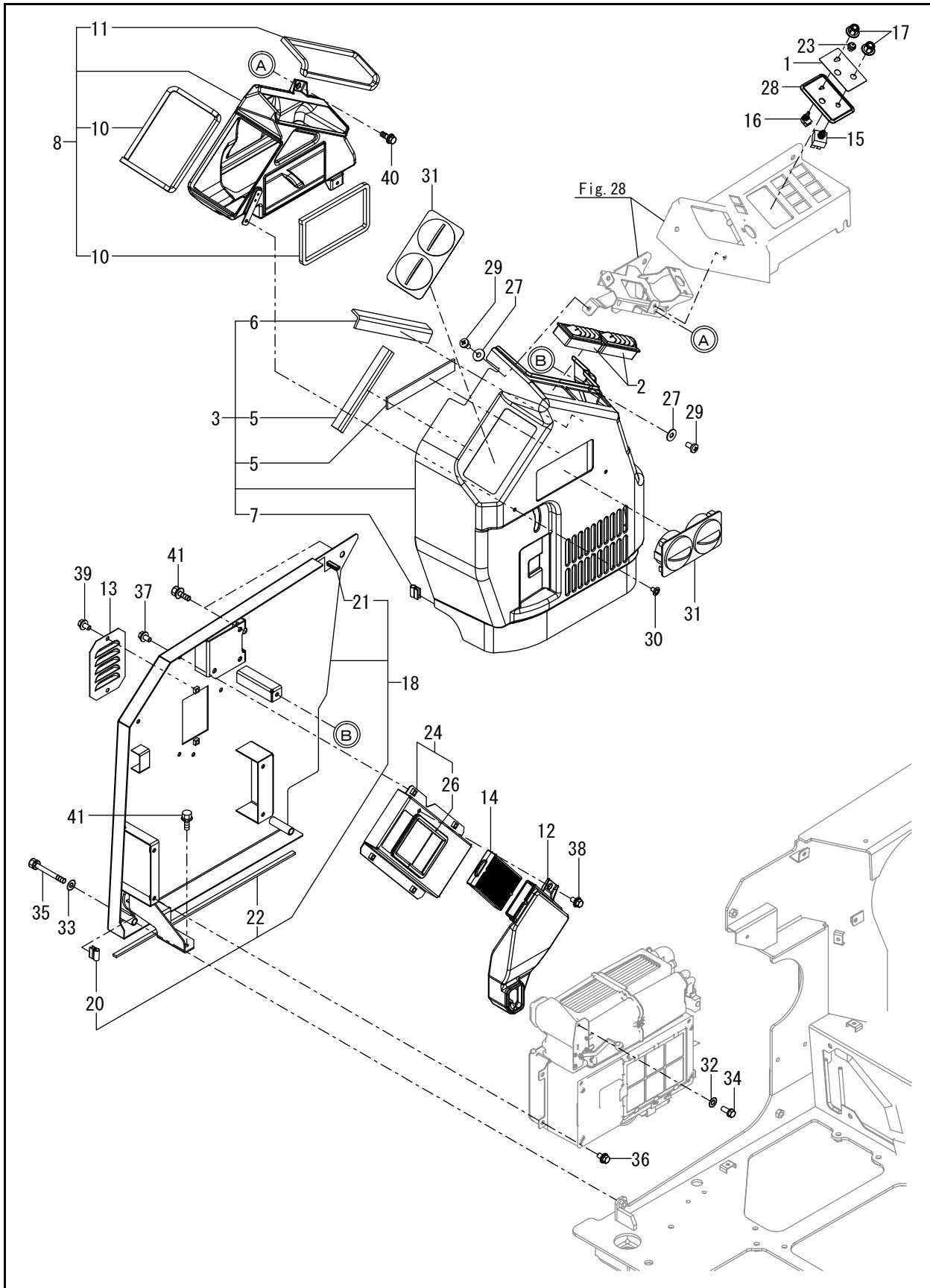
Z80 - COMPACT EXCAVATOR
FIG. 28 - ELECTRIC PART (INDICATOR BOX)

Ref.

No.	Part No.	Description	Qty.
1	50281321	PANEL PLUG	5
2	50287074	BUZZER	1
3	50281594	SWITCH/TRAVEL	1
4	50281596	SWITCH/WIPER	1
5	50281598	SWITCH/LIGHT	1
6	50288888	SWITCH/AD	1
7	50288889	SWITCH/ECO	1
8	50288279	DISPLAY ASSY	1
9	50288894	MONITOR DISPLAY	1
10	50282970	WASHER M8	2
11	50288514	INSTRUMENT PANEL	1
12	50288519	SUPPORT	1
13	50282721	SCREW	4
14	50284040	WASHER 5, POLISHED	4
15	425-34968	SPRING WASHER 5	4
16	50282515	BOLT W/WASHER M10X20	3
17	50282531	BOLT M 6X 16	1
18	50288176	BOLT	4

Z80 - COMPACT EXCAVATOR

FIG. 29 - AIR CONDITIONER (CABIN RELATED)

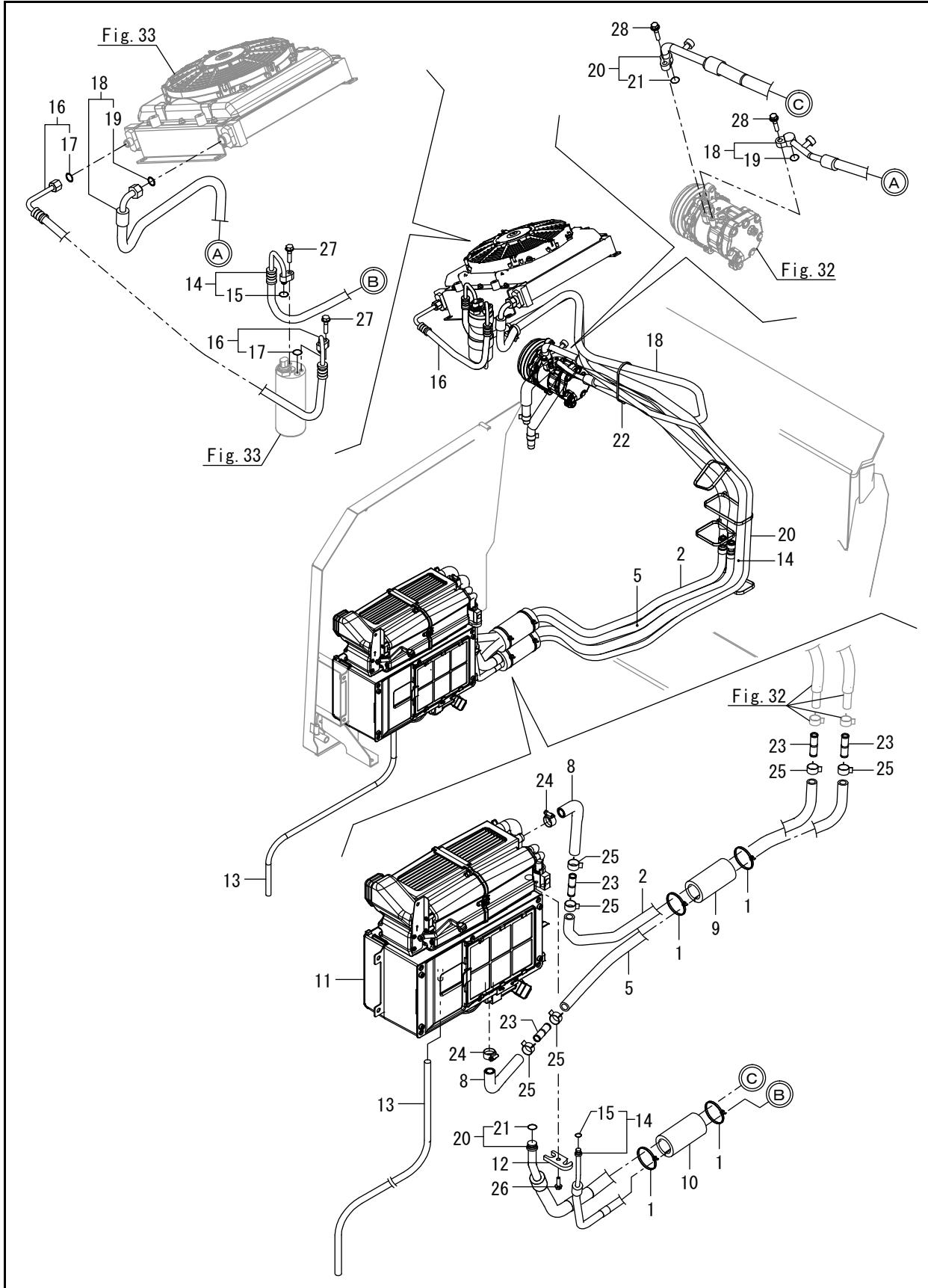


Z80 - COMPACT EXCAVATOR
FIG. 29 - AIR CONDITIONER (CABIN RELATED)

Ref.

No.	Part No.	Description	Qty.
1	50287425	LEBEL/SW AC	1
2	50281133	GRILLE	2
3	50288433	A/C COVER ASSY	1
5	50288434	INSULATOR SUPPORT	2
6	50288435	INSULATOR SUPPORT	1
7	50288453	SEAL 25	1
8	50288439	A/C DUCT ASSY	1
10	50281621	SEAL,DUCT C	2
11	50288442	SEAL	1
12	50288440	A/C FRESH AIR DUCT	1
13	50288441	LOUVER	1
14	50286728	FILTER	1
15	50288021	SWITCH/BROWER	1
16	50288022	SWITCH/THERMO	1
17	50288023	KNOB	2
18	50288446	A/C BRACKET ASSY	1
20	50288453	SEAL 25	1
21	50288238	TRIM	1
22	50281140	SEAL 560	1
23	50287582	SWITCH ASSY/AC	1
24	50288447	DUCT ASSY	1
26	50288230	SEAL	1
27	50282970	WASHER M8	2
28	50287707	PANEL/AC	1
29	50282721	SCREW	2
30	50288114	RIVET	2
31	50282363	AIR-CON GRILL CMP	2
32	138110	WASHER	1
33	138111	WASHER/POLISHED	2
34	50282500	BOLT M 6X 10	1
35	50282524	BOLT W/WASHER 10X 85	2
36	50282533	BOLT M 8X 16	4
37	50282533	BOLT M 8X 16	4
38	50282533	BOLT M 8X 16	1
39	50282533	BOLT M 8X 16	2
40	50282534	BOLT M 8X 20	1
41	50282539	BOLT 10X25 W/PLW+SPW	3

Z80 - COMPACT EXCAVATOR
FIG. 30 - AIR CONDITIONER (PIPING)



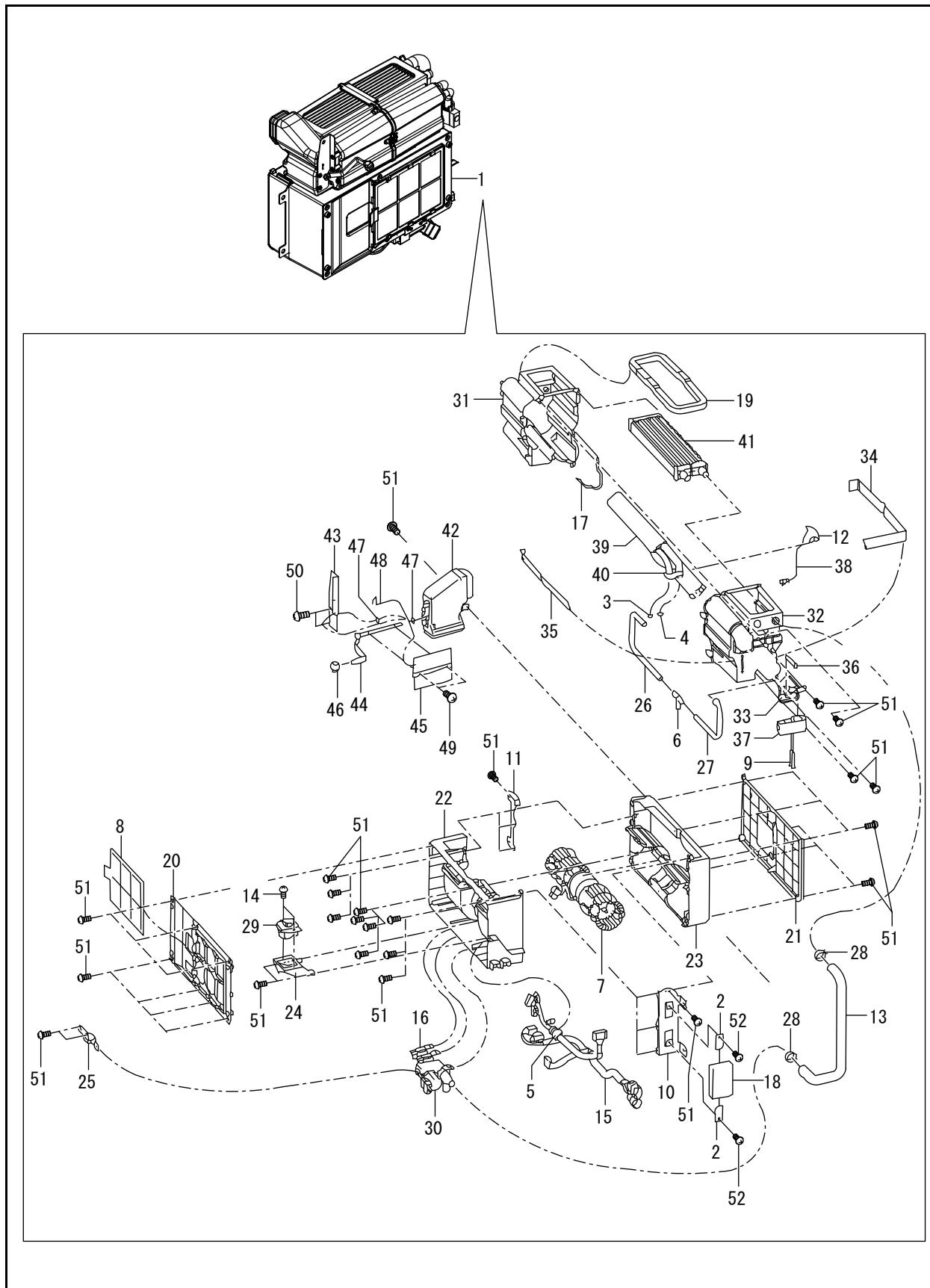
Z80 - COMPACT EXCAVATOR
FIG. 30 - AIR CONDITIONER (PIPING)

Ref.

No.	Part No.	Description	Qty.
1	50280798	BAND 300	4
2	50288892	HEATER HOSE	1
5	50282143	HOSE ASSY, HEATER 1050	1
8	50288429	HEATER HOSE	2
9	50281629	SPONGE HOSE,120X53	1
10	50288444	INSULATION	1
11	50287579	AC UNIT (See Page 60 for internal components)	1
12	50287580	PLATE/FLANGE	1
13	50288460	A/C DRAIN HOSE	1
14	50288456	HOSE	1
15	50288026	O-RING/L-HOSE	2
16	50288457	HOSE	1
17	50288026	O-RING/L-HOSE	2
18	50288458	DISCHARGE HOSE	1
19	50288024	O-RING/D-HOSE	2
20	50288459	SUCTION HOSE	1
21	50288025	O-RING/S-HOSE	2
22	50282352	BAND	1
23	50282364	PIPE, JOINT	4
24	50282427	HOSE CLAMP 22	2
25	188718	CLAMP 18	6
26	188732	BOLT M6 X 20 PLATED	1
27	197805	BOLT M6X25 PLATED	2
28	425-34765	BOLT M8 X 25 PLATED	2

Z80 - COMPACT EXCAVATOR

FIG. 31 - AIR CONDITIONER (A/C UNIT ASSY:INNER PARTS)

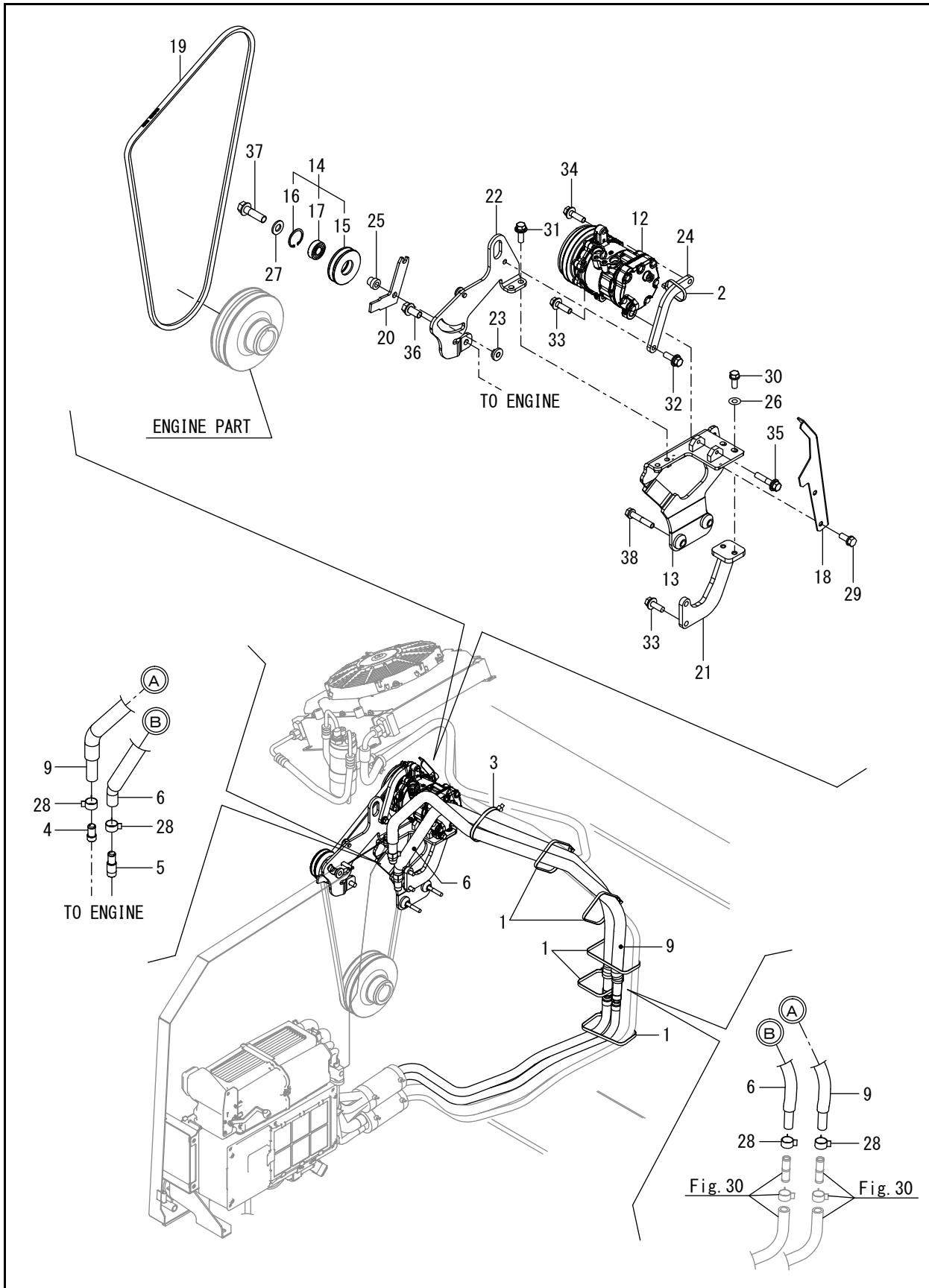


Z80 - COMPACT EXCAVATOR
FIG. 31 - AIR CONDITIONER (A/C UNIT ASSY:INNER PARTS)

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50287579	AC UNIT	1	48	50288315	SPRING	1
2	50288327	BRACKET	2	49	50288316	SCREW 3X6	2
3	50288024	O-RING/D-HOSE	1	50	50288317	SCREW 4X10	2
4	50288025	O-RING/S-HOSE	1	51	50288318	SCREW 4X16	36
5	50288328	INSULATOR	1	52	50288319	SCREW 5X5	2
6	50288329	DRAIN ELBOW	1				
7	50288330	BLOWER MOTOR ASSY	1				
8	50287581	FILTER/REC	1				
9	50288331	SOCKET BOLT M5X40	2				
10	50288280	BRACKET	1				
11	50288281	BRACKET	1				
12	50288332	THERMISTOR HOLDER	1				
13	50288282	HEATER HOSE	1				
14	50288333	PAN HEAD SCREW	2				
15	50288283	HVAC WIRE HARNESS	1				
16	50288284	RELAY	2				
17	50288334	CASE SEAL	1				
18	50288285	HVAC CONTROLLER	1				
19	50288286	HVAC HEATER SEAL	1				
20	50288287	FRONT COVER	1				
21	50288288	BACK COVER	1				
22	50288289	HVAC CASE FRONT	1				
23	50288290	HVAC CASE BACK	1				
24	50288291	RESISTOR MOUNT	1				
25	50288292	VALVE RETAINER	1				
26	50288293	DRAIN HOSE	1				
27	50288294	DRAIN HOSE	1				
28	50288295	HOSE CLAMP	2				
29	50288296	RESISTOR	1				
30	50288297	WATER VALVE ASSY	1				
31	50288298	HVAC CASE TOP	1				
32	50288299	HVAC CASE BOTTOM	1				
33	50288300	COVER ASSY	1				
34	50288301	HVAC SEAL	1				
35	50288302	HVAC SEAL	1				
36	50288303	RETAINER	1				
37	50288304	EXPANSION VALVE	1				
38	50288305	TEMPERATURE SENSOR	1				
39	50288306	EVAPORATOR ASSY	1				
40	50288307	RETAINER	1				
41	50288308	HEATER ASSY	1				
42	50288309	DUCT ASSY	1				
43	50288310	BRACKET	1				
44	50288311	LEVER ASSY	1				
45	50288312	DOOR ASSY	1				
46	50288313	KNOB	1				
47	50288314	SPACER	2				

Z80 - COMPACT EXCAVATOR

FIG. 32 - AIR CONDITIONER (ENGINE RELATED)



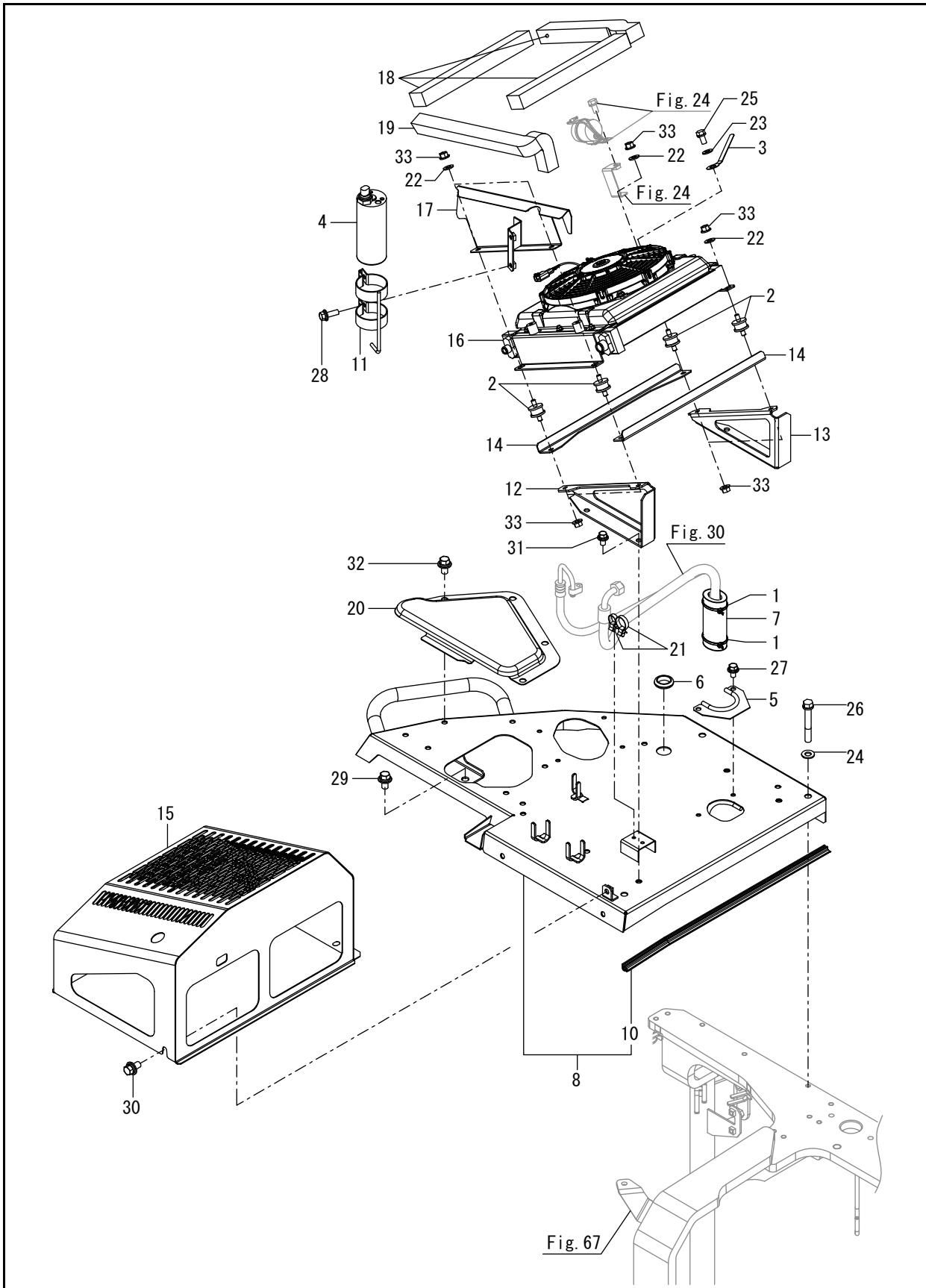
Z80 - COMPACT EXCAVATOR
FIG. 32 - AIR CONDITIONER (ENGINE RELATED)

Ref.

No.	Part No.	Description	Qty.
1	50280798	BAND 300	5
2	50280802	BAND	1
3	50280802	BAND	2
4	50282711	JOINT 3/8	1
5	50288428	PIPE JOINT 3/8	1
6	50288892	HEATER HOSE	1
9	50282143	HOSE ASSY, HEATER 1050	1
12	50288430	A/C COMPRESSOR	1
13	50288431	BRACKET ASSY	1
14	50281606	PULLEY ASSY,TENSION	1
15	50281607	PULLEY,TENSION	1
16	50282406	CIRCLIP 35	1
17	50282454	BALL BEARING	1
18	50288432	BELT GUARD	1
19	50281608	V BELT HM60	1
20	50288436	ADJUSTMENT BRACKET	1
21	50281613	BRACKET B ASSY	1
22	50288890	PULLEY BRACKET	1
23	50280934	NUT	1
24	50288437	COMPRESSOR BRACKET	1
25	50280740	SPACER, TENSION	1
26	50282380	WASHER 8, POLISHED	2
27	138111	WASHER/POLISHED	1
28	188718	CLAMP 18	4
29	50282507	BOLT W/WASHER M8X20	2
30	50282534	BOLT M 8X 20	2
31	425-35026	BOLT M8 X 25	2
32	425-35026	BOLT M8 X 25	1
33	425-35026	BOLT M8 X 25	2
34	50284104	BOLT M8 X 30	2
35	50288171	BOLT	1
36	138133	BOLT M10 X 20 PLATED	1
37	138135	BOLT M10 X 35 PLATED	1
38	50282587	BOLT 8X50	2

Z80 - COMPACT EXCAVATOR

FIG. 33 - AIR CONDITIONER (CONDENSER RELATED)



Z80 - COMPACT EXCAVATOR
FIG. 33 - AIR CONDITIONER (CONDENSER RELATED)

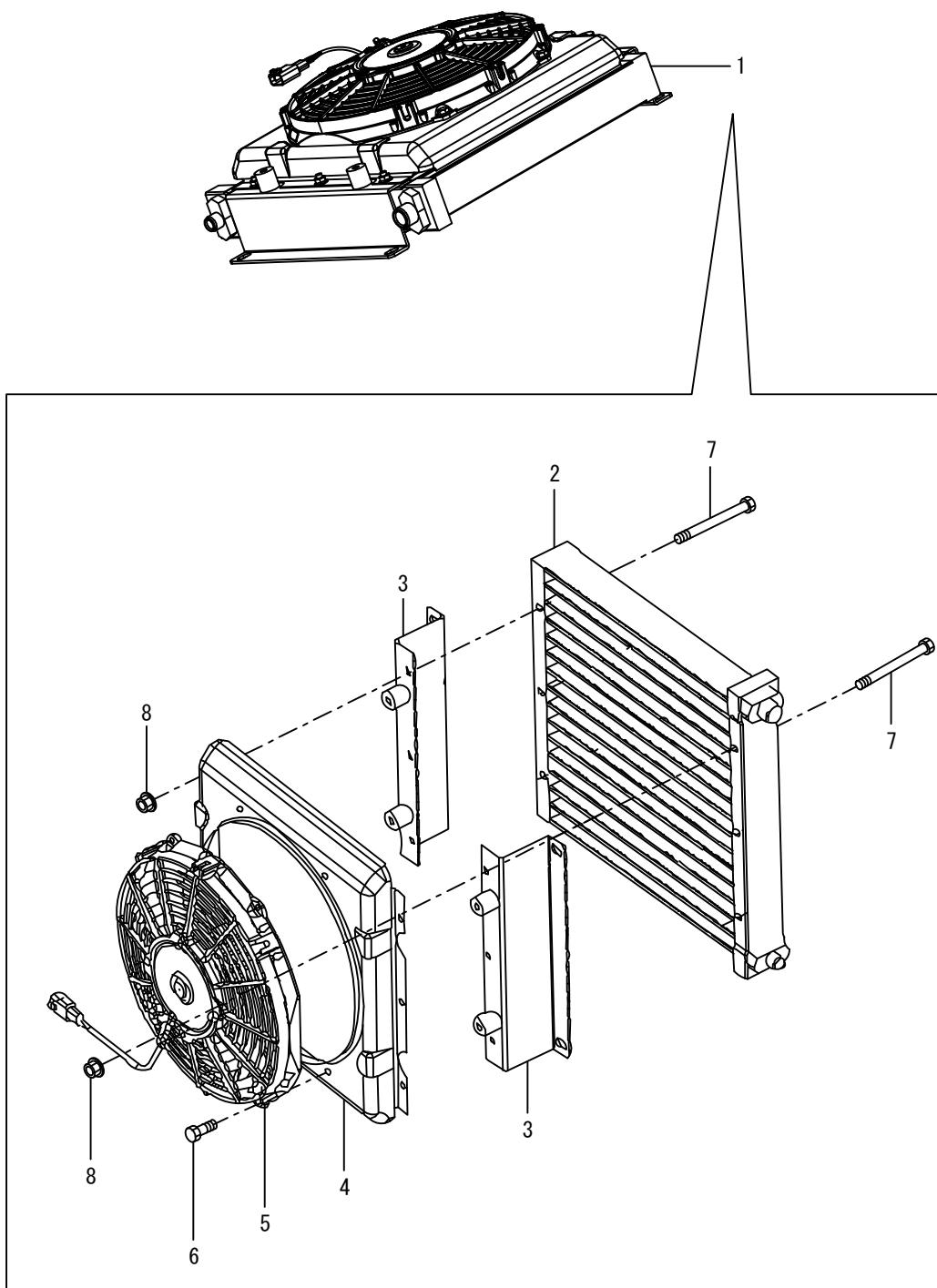
Ref.

No.	Part No.	Description	Qty.
1	50280798	BAND 300	2
2	50281059	MOUNT	4
3	50280799	CLAMP 10X70	1
4	50288020	RECEIVER-DRIER	1
5	50288269	COVER	1
6	50288443	GROMMET	1
7	50288444	INSULATION	1
8	50288445	A/C BASE ASSY	1
10	50288236	RUBBER SEAL	1
11	50287576	BRACKET ASSY R/D	1
12	50288448	BRACKET	1
13	50288449	BRACKET	1
14	50288450	BRACKET	2
15	50288451	COVER ASSY	1
16	50287583	CONDENSER ASSY (see Page 66 for internal components)	1
17	50288452	PANEL ASSY	1
18	50288454	SEAL 310	3
19	50288455	SEAL 420	1
20	50281672	UPPER COVER (replacement also requires label 20A)	1
20A	50281027	LABEL, RADIATOR US *	1
21	50288862	BAND CLAMP	2
22	50282380	WASHER 8, POLISHED	4
23	50282380	WASHER 8, POLISHED	1
24	138111	WASHER/POLISHED	3
25	50282506	BOLT W/WASHER M8X16	1
26	50282523	BOLT 10X70 W/SP.WSHR	3
27	50282533	BOLT M 8X 16	2
28	425-35026	BOLT M8 X 25	2
29	50282538	BOLT M10X 20	1
30	50282538	BOLT M10X 20	4
31	50282538	BOLT M10X 20	4
32	50282538	BOLT M10X 20	4
33	50282548	NUT M 8	8

NOTE: * Label shown on Page 4

Z80 - COMPACT EXCAVATOR

FIG. 34 - AIR CONDITIONER (CONDENSER ASSY:INNER PART)



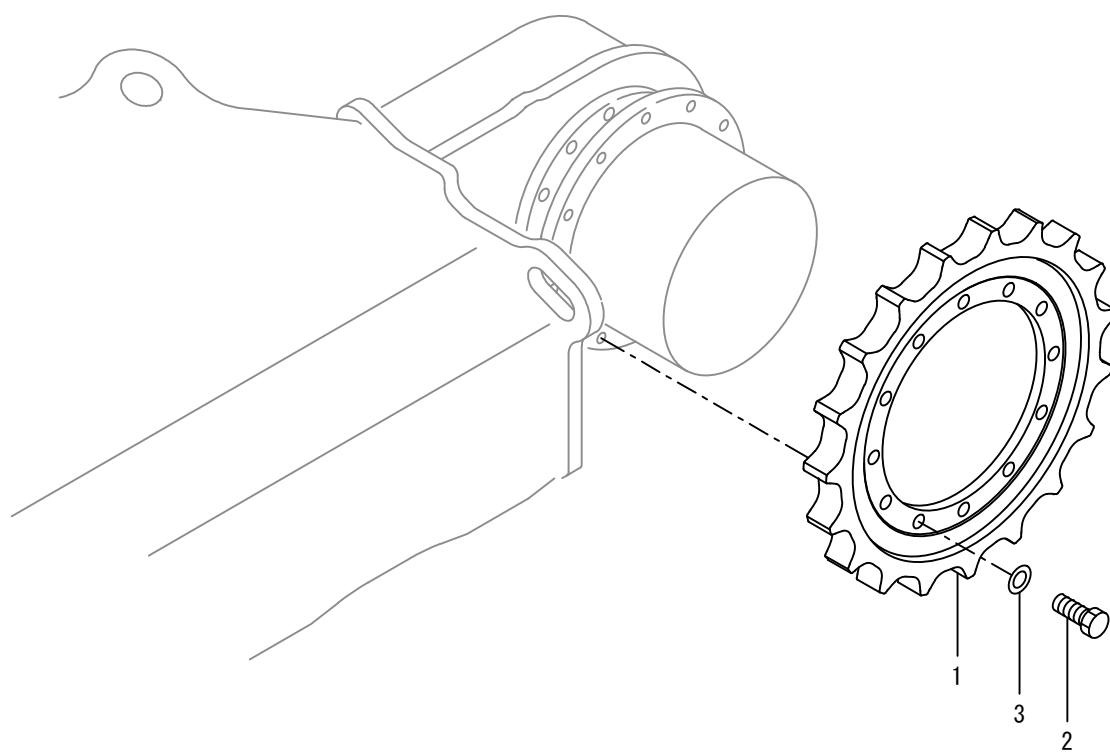
Z80 - COMPACT EXCAVATOR**FIG. 34 - AIR CONDITIONER (CONDENSER ASSY:INNER PART)**

Ref.

No.	Part No.	Description	Qty.
1	50287583	CONDENSER ASSY	1
2	50288335	CONDENSER	1
3	50288320	BRACKET ASSY	2
4	50288321	FAN SHROUD	1
5	50288322	FAN/MOTOR ASSY	1
6	425-35164	BOLT M6 X 16 PLATED	4
7	425-35166	BOLT M6 X 60 PLATED	6
8	425-34781	NUT M6	6

Z80 - COMPACT EXCAVATOR

FIG. 35 - SPROCKET



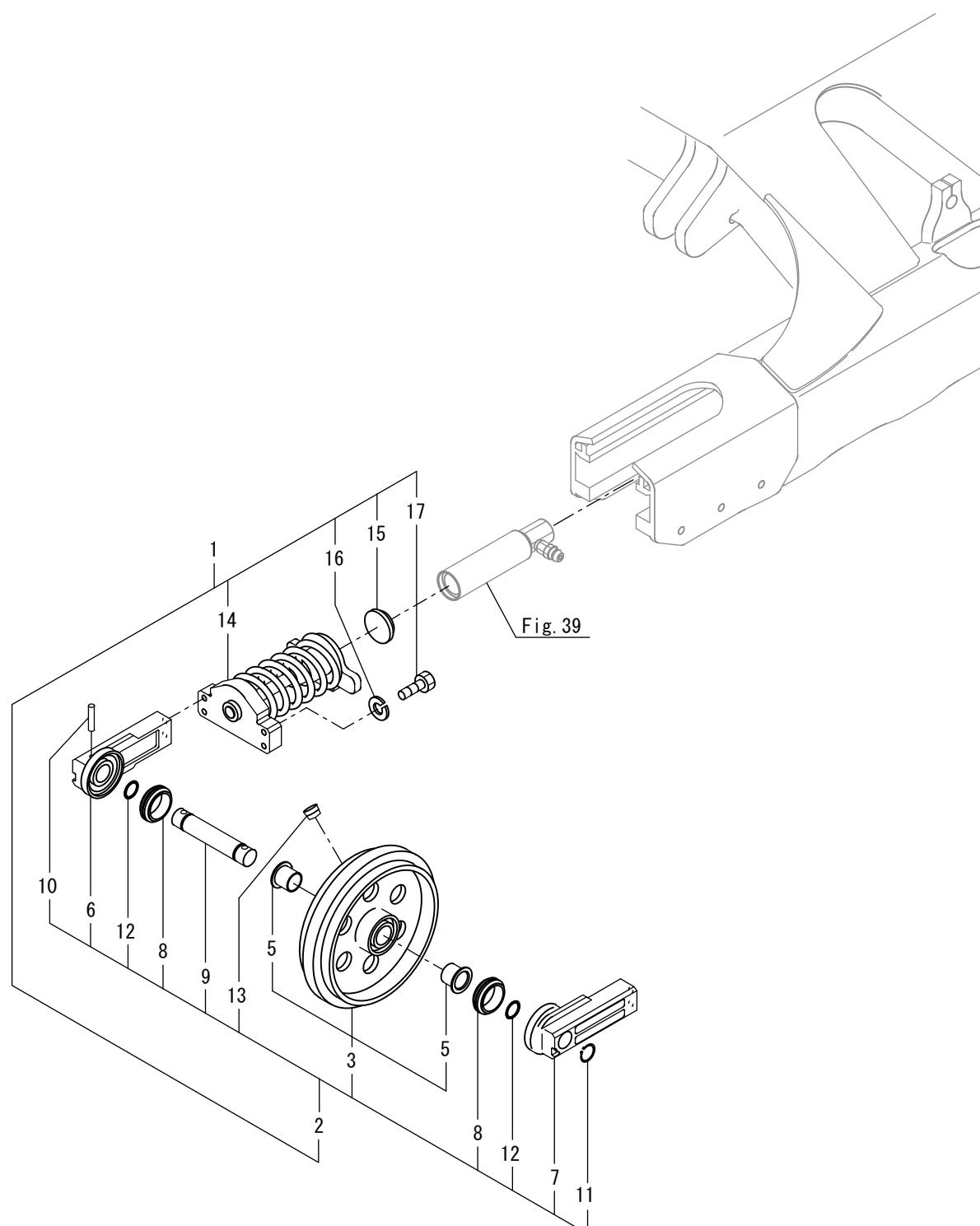
Z80 - COMPACT EXCAVATOR
FIG. 35 - SPROCKET

Ref.

No.	Part No.	Description	Qty.
1	50282158	SPROCKET, 19	2
2	50281066	BOLT 14X35	24
3	50281067	WASHER 14X35	24

Z80 - COMPACT EXCAVATOR

FIG. 36 - IDLER & ADJUST



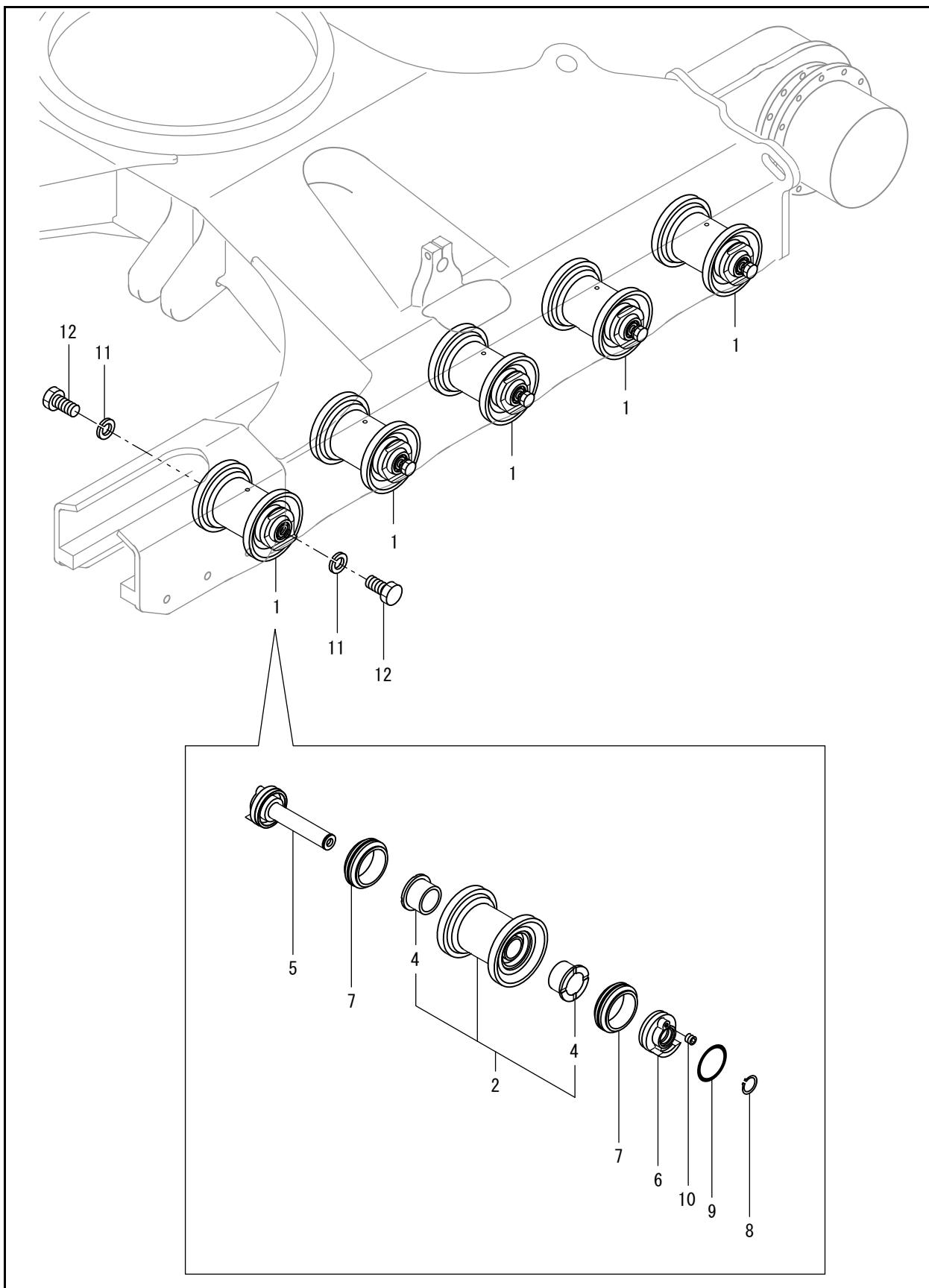
Z80 - COMPACT EXCAVATOR
FIG. 36 - IDLER & ADJUST

Ref.

No.	Part No.	Description	Qty.
1	50282613	IDLER & ADJUST	2
2	50282612	IDLER ASSY	2
3	50288885	IDLER WHEEL ASSY	2
5	50281184	BUSH, 44	4
6	50281185	SEAL COVER A, IDLER	2
7	50281186	SEAL COVER B, IDLER	2
8	50281068	FLOATING SEAL	4
9	50281069	SHAFT	2
10	50281070	SP PIN 10AWX70	2
11	50282402	CIRCLIP 40	2
12	50282462	O-RING 1A P-38.0	4
13	50282621	PLUG PT1/8	2
14	50288232	TENSION SPRING ASSY	2
15	50280860	PLATE,ADJUSTER	2
16	188712	SPRING/WASHER 14	8
17	50282568	BOLT M14 X 60 PLATED	8

Z80 - COMPACT EXCAVATOR

FIG. 37 - TRACK ROLLER



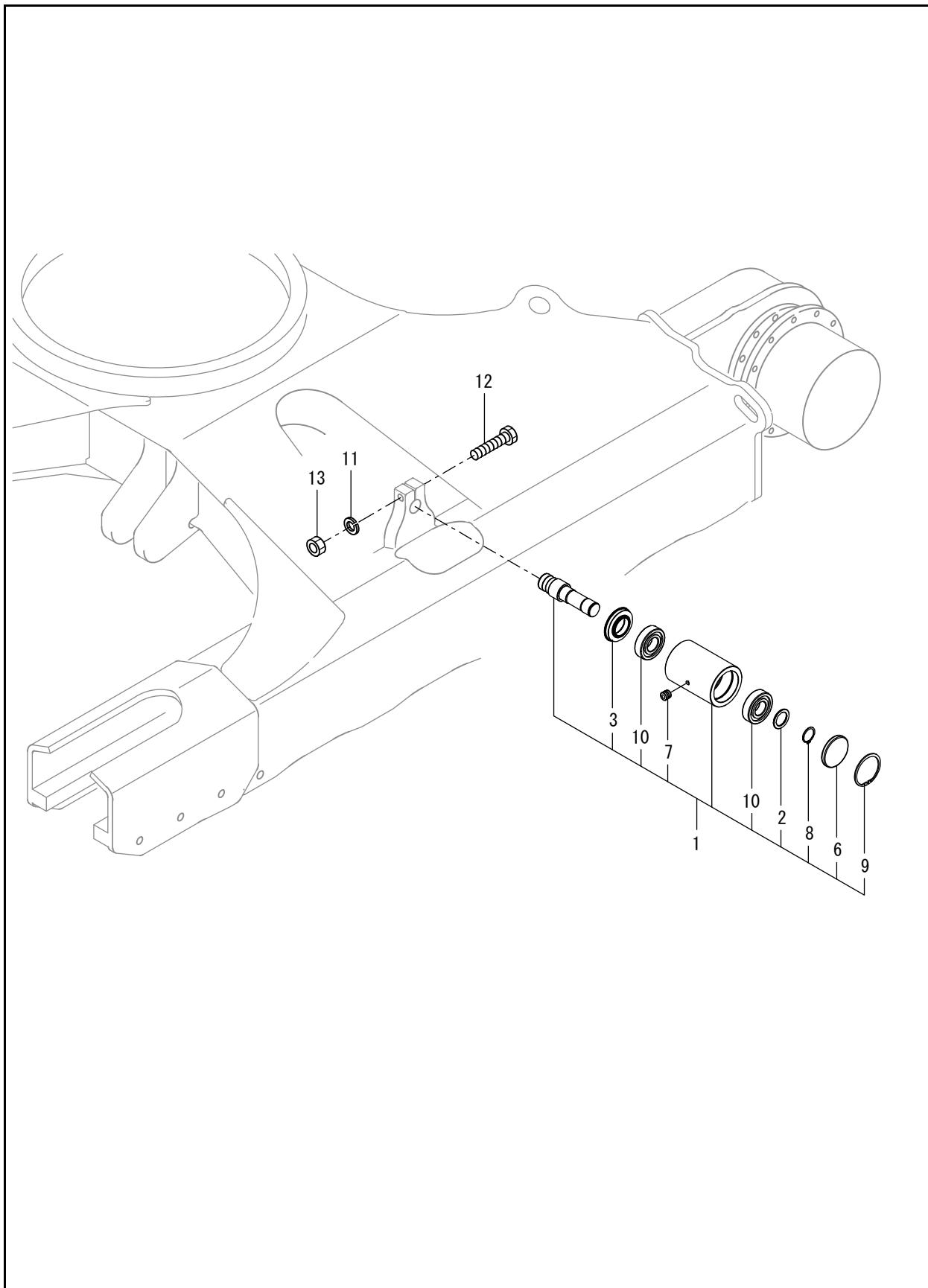
Z80 - COMPACT EXCAVATOR
FIG. 37 - TRACK ROLLER

Ref.

No.	Part No.	Description	Qty.
1	50281187	LOWER ROLLER ASSY	10
2	50281188	ROLLER ASSY	10
4	50281194	BUSHING 40X40	20
5	50281190	SHAFT ASSY	10
6	50281192	SEAL, COVER B	10
7	50281193	FLOATING SEAL	20
8	50282401	CIRCLIP 38	10
9	50282461	O-RING 1A P-34.0	10
10	50282621	PLUG PT1/8	10
11	50282397	WASHER, SPRING 20	20
12	50282555	BOLT, 20 X 40	20

Z80 - COMPACT EXCAVATOR

FIG. 38 - CARRIER ROLLER



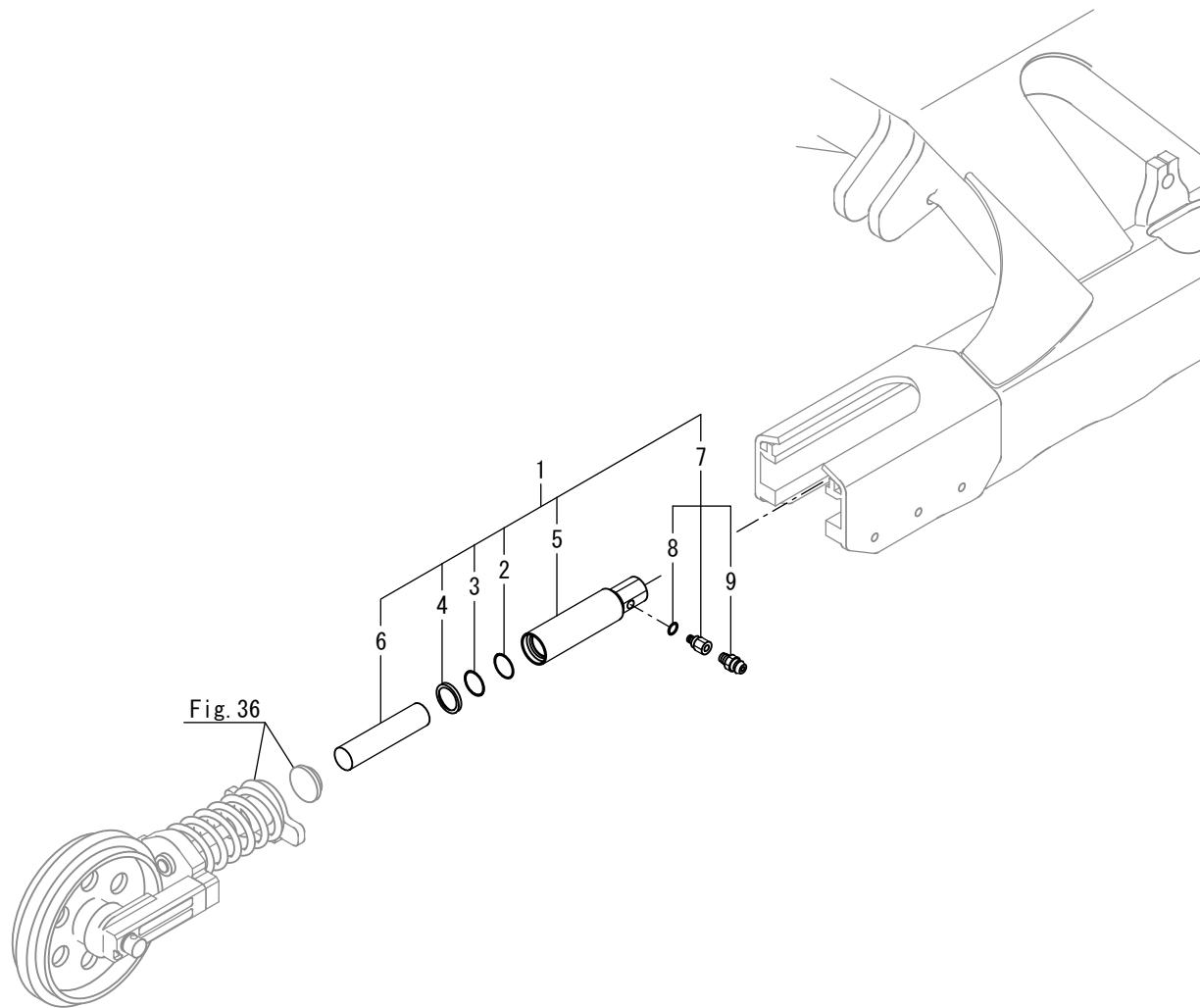
Z80 - COMPACT EXCAVATOR**FIG. 38 - CARRIER ROLLER**

Ref.

No.	Part No.	Description	Qty.
1	50288893	UPPER ROLLER ASSY	2
2	50281349	COLLAR 35X50X3	2
3	50280888	SEAL 45 85 8.5 19	2
6	50282160	CAP,SEALING 72	2
7	50282355	PLUG PT1/8	2
8	50282400	CIRCLIP 35	2
9	50282408	CIRCLIP 72	2
10	50282453	BALL BEARING	4
11	50282396	SPRING WASHER 16	2
12	50282573	BOLT M16X 85 PLATED	2
13	50282599	NUT M16	2

Z80 - COMPACT EXCAVATOR

FIG. 39 - CRAWLER ADJUST



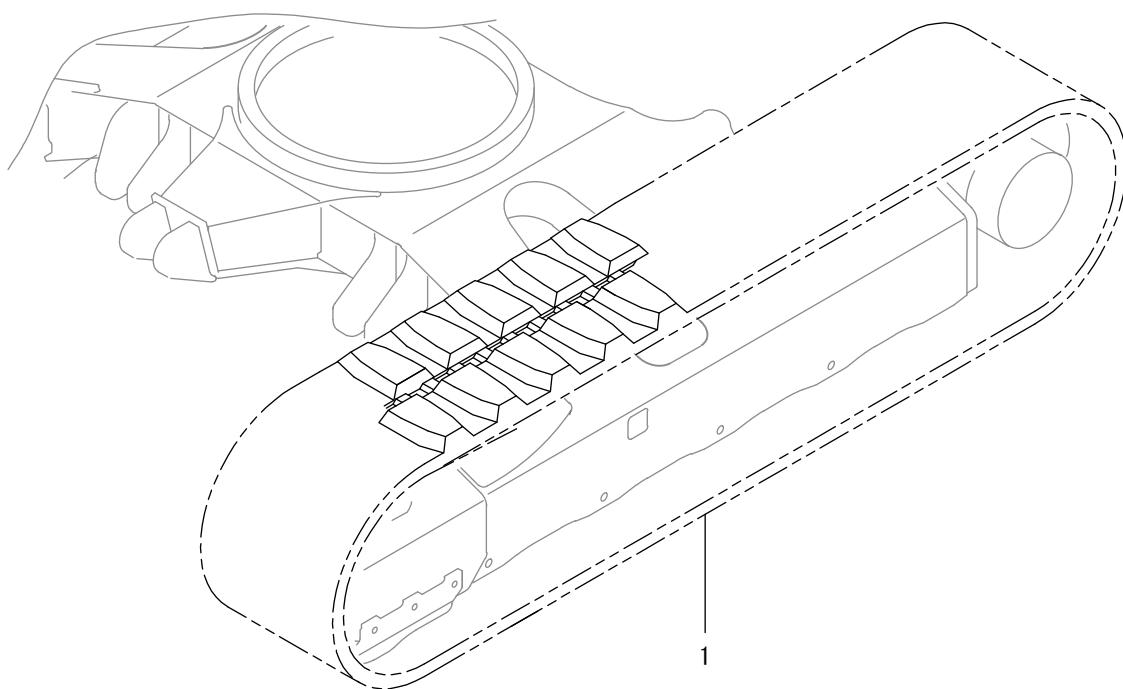
Z80 - COMPACT EXCAVATOR
FIG. 39 - CRAWLER ADJUST

Ref.

No.	Part No.	Description	Qty.
1	50282611	CYLINDER, ADJUSTER	2
2	50282356	O-RING 55.0	2
3	50281195	RING 55,BACKUP	2
4	50281196	DKB 55 69 8 11	2
5	50280858	TUBE ASSY, ADJUSTING	2
6	50280859	PISTON	2
7	50280783	VALVE ASSY, NIPPLE	2
8	50288156	O-RING	2
9	50282497	NIPPLE PT1/8,GREASE	2

Z80 - COMPACT EXCAVATOR

FIG. 40 - CRAWLER

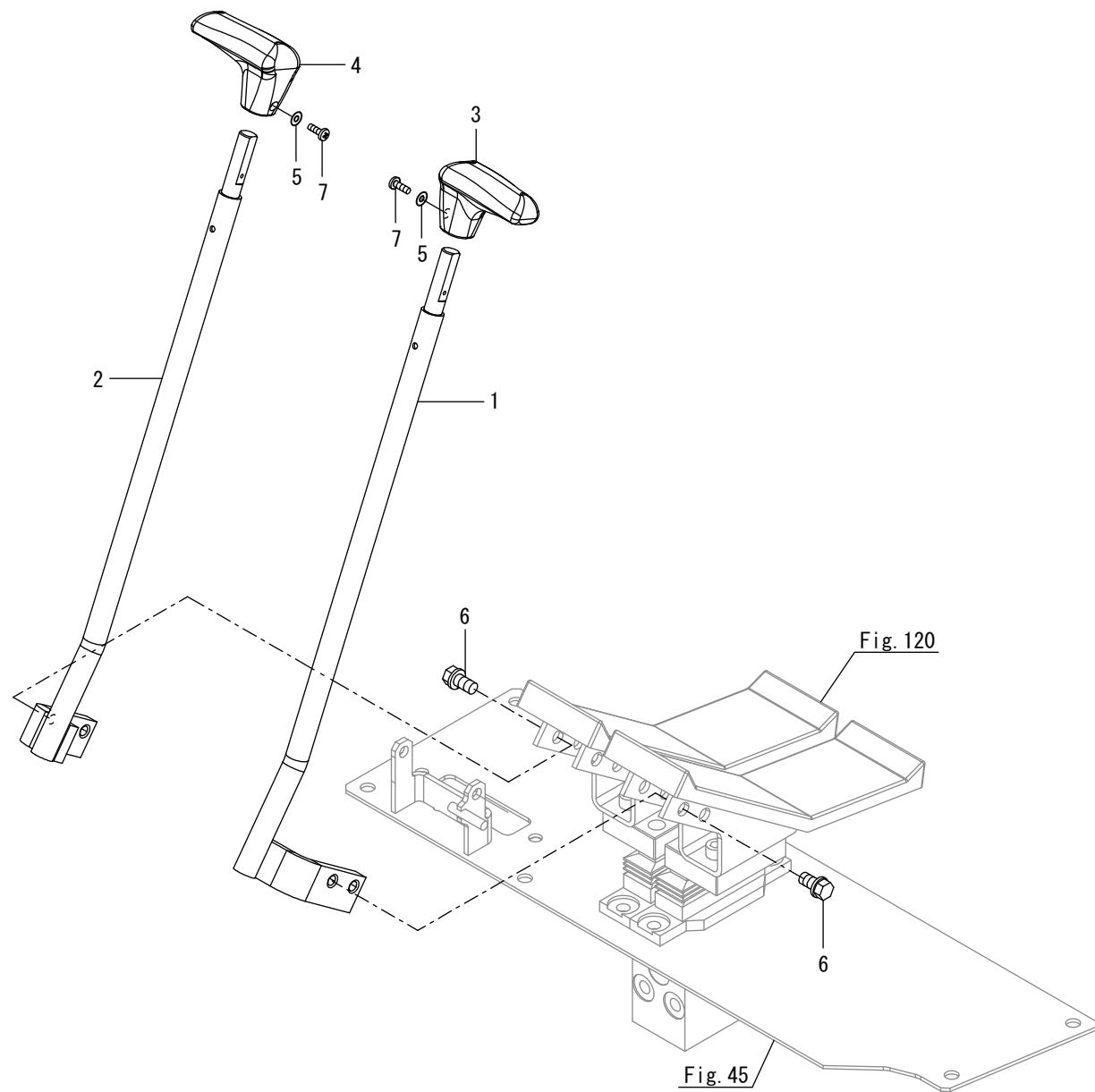


Z80 - COMPACT EXCAVATOR
FIG. 40 - CRAWLER

Ref.	No. Part No.	Description	Qty.
1	50288237	RUBBER TRACK	2

Z80 - COMPACT EXCAVATOR

FIG. 41 - CONTROL EQUIPMENT (TRAVEL LEVER)



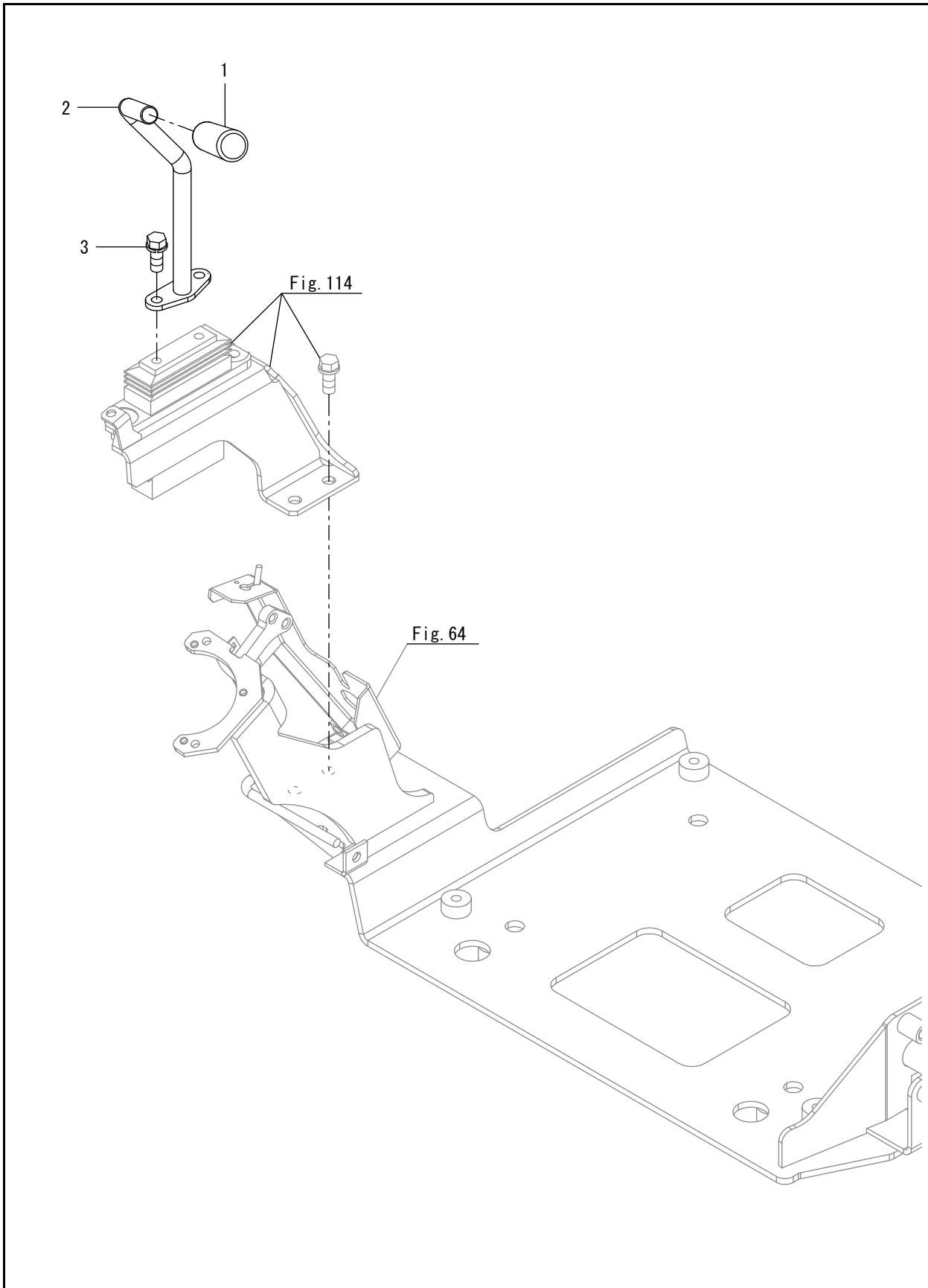
Z80 - COMPACT EXCAVATOR
FIG. 41 - CONTROL EQUIPMENT (TRAVEL LEVER)

Ref.

No.	Part No.	Description	Qty.
1	50281643	LEVER L ASSY,TRACK	1
2	50281644	LEVER R ASSY,TRACK	1
3	50280939	GRIP L, DRIVE	1
4	50280940	GRIP R, DRIVE	1
5	197782	WASHER 4	2
6	50282515	BOLT W/WASHER M10X20	4
7	50282592	SCREW, M4X12	2

Z80 - COMPACT EXCAVATOR

FIG. 42 - CONTROL EQUIPMENT (BLADE LEVER)



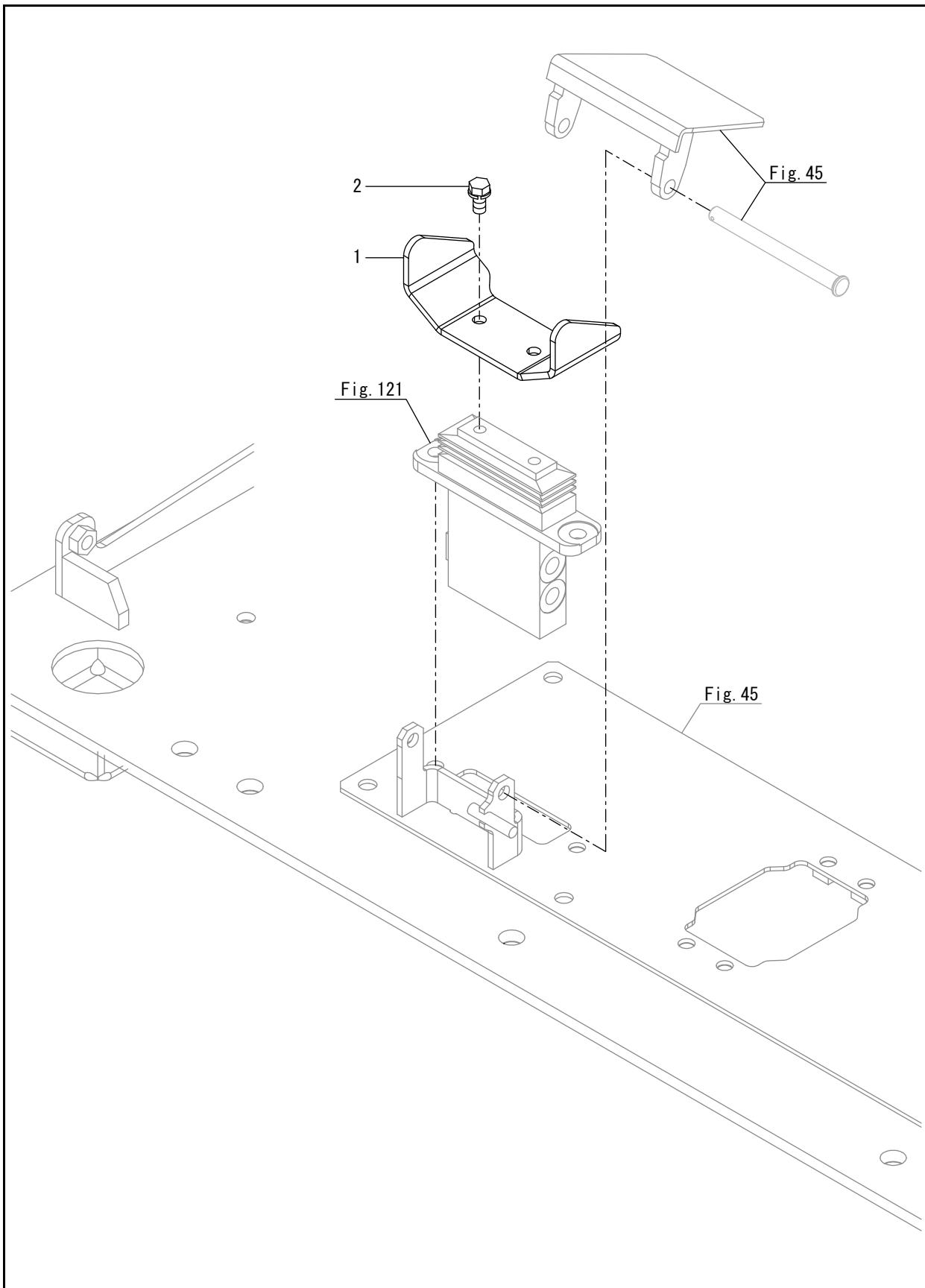
Z80 - COMPACT EXCAVATOR
FIG. 42 - CONTROL EQUIPMENT (BLADE LEVER)

Ref.

No.	Part No.	Description	Qty.
1	50281379	GRIP(BLACK)	1
2	50288891	DOZER BLADE CONTROL LEVER	1
3	50282506	BOLT W/WASHER M8X16	2

Z80 - COMPACT EXCAVATOR

FIG. 43 - CONTROL EQUIPMENT (SWING PEDAL)



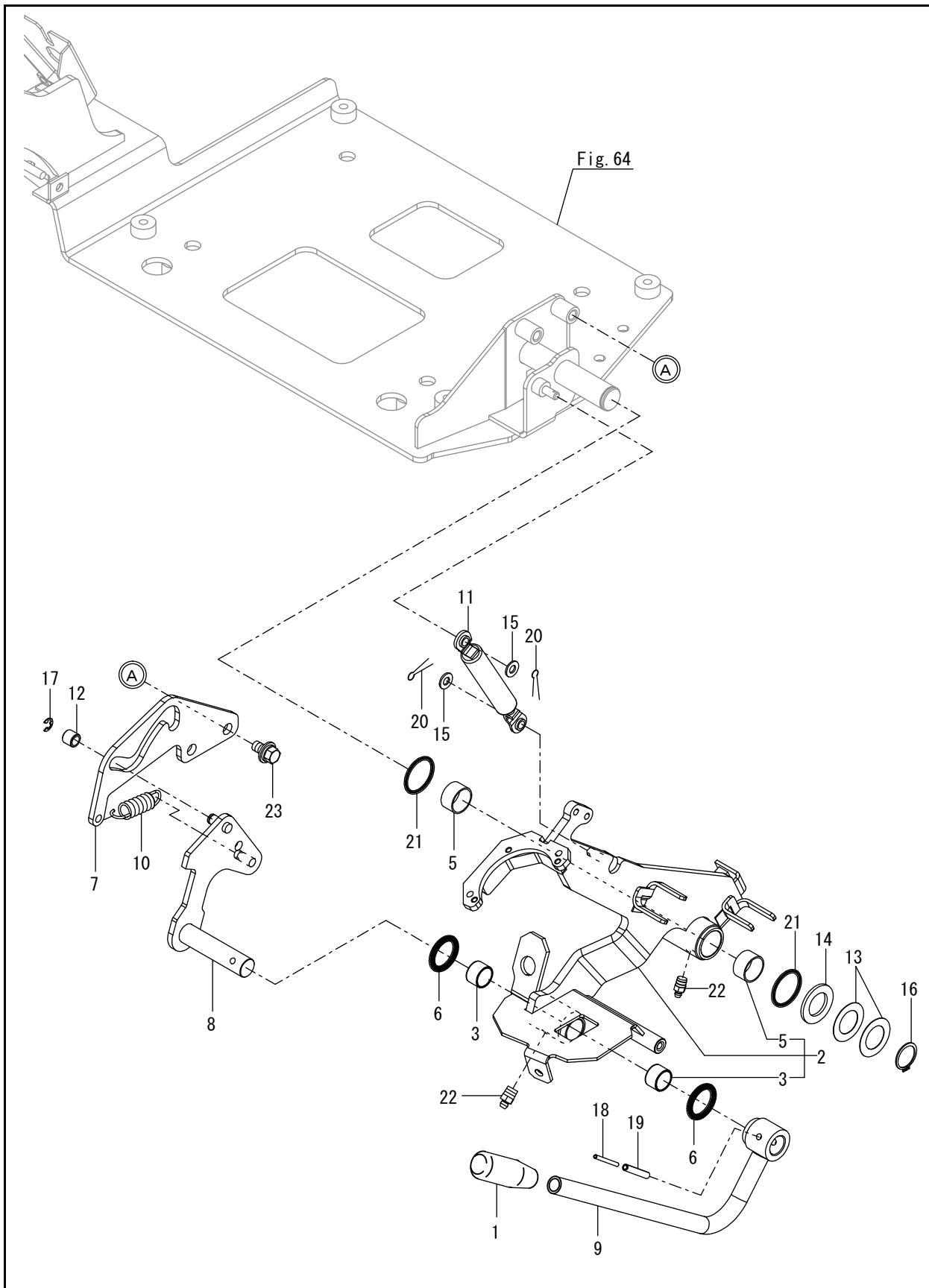
Z80 - COMPACT EXCAVATOR
FIG. 43 - CONTROL EQUIPMENT (SWING PEDAL)

Ref.

No.	Part No.	Description	Qty.
1	50281645	PEDAL,SWING (49)	1
2	50282506	BOLT W/WASHER M8X16	2

Z80 - COMPACT EXCAVATOR

FIG. 44 - CONTROL EQUIPMENT (LOCK LEVER & LEVER STAND)



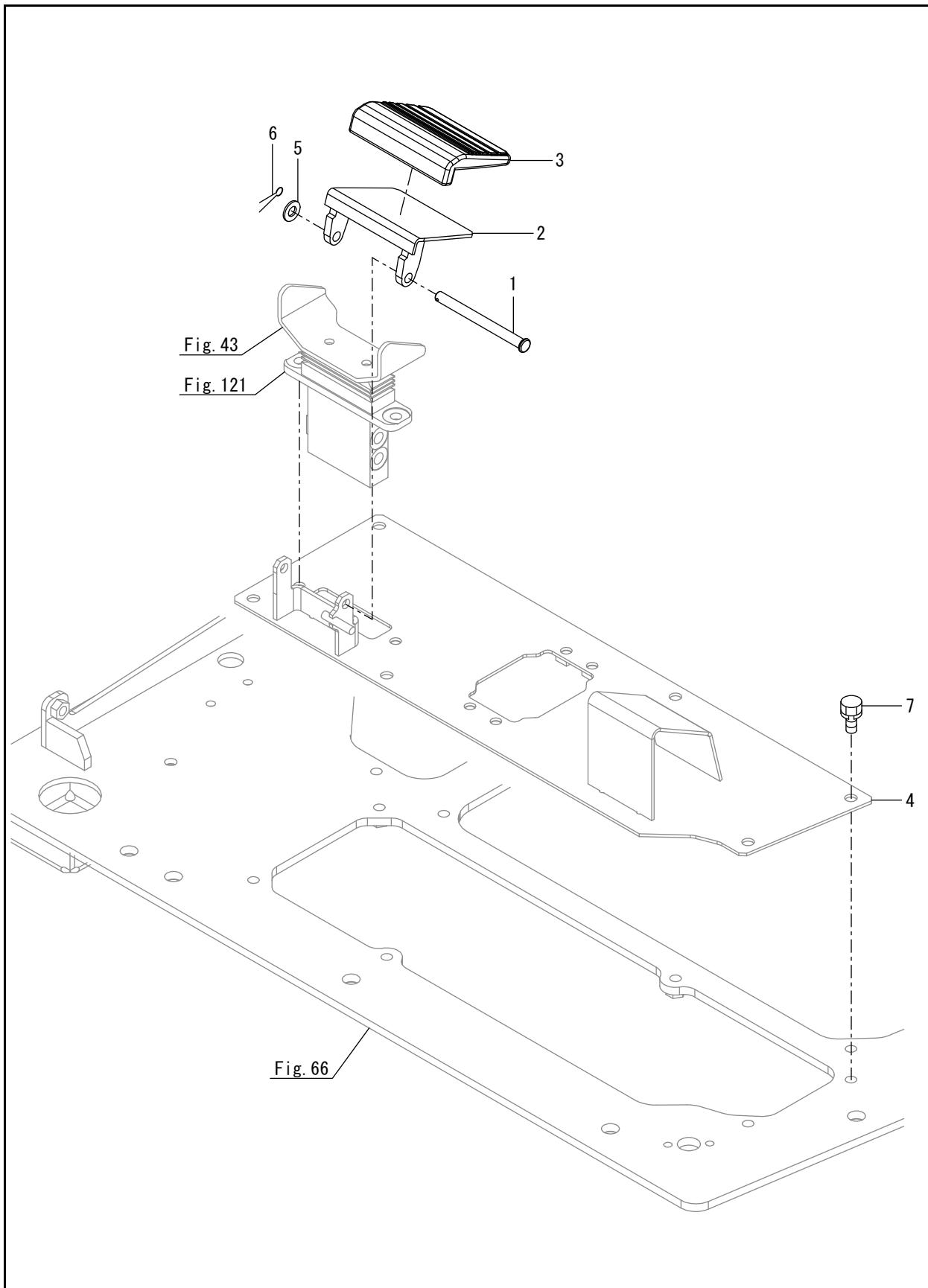
Z80 - COMPACT EXCAVATOR
FIG. 44 - CONTROL EQUIPMENT (LOCK LEVER & LEVER STAND)

Ref.

No.	Part No.	Description	Qty.
1	50282079	GRIP,RED	1
2	50281648	LEVER STAND ASSY,L	1
3	50280810	BUSHING 2015	2
5	50282494	BUSHING 25X15	2
6	50280793	O-RING 27X5.7	2
7	50281649	ROCK GUIDE (49)	1
8	50281650	ROD,ASSY SPRING (49)	1
9	50281652	LEVER ASSY,LOCK	1
10	50281653	SPRING 2.3X15X60	1
11	50281071	SPRING,GAS	1
12	50280894	BUSHING	1
13	50280895	SHIM 42X25.5X0.5	2
14	50280896	WASHER 25.5X42	1
15	50282380	WASHER 8, POLISHED	2
16	50282399	CIRCLIP 25S	1
17	176152	CIRCLIP E-7	1
18	50282413	SPRING PIN 3.5X40	1
19	50282414	SPRING PIN 6X40	1
20	50282418	COTTER PIN 2.0X20	2
21	50282461	O-RING 1A P-34.0	2
22	50282497	NIPPLE PT1/8,GREASE	2
23	50282538	BOLT M10X 20	2

Z80 - COMPACT EXCAVATOR

FIG. 45 - CONTROL EQUIPMENT (PEDAL STAND)



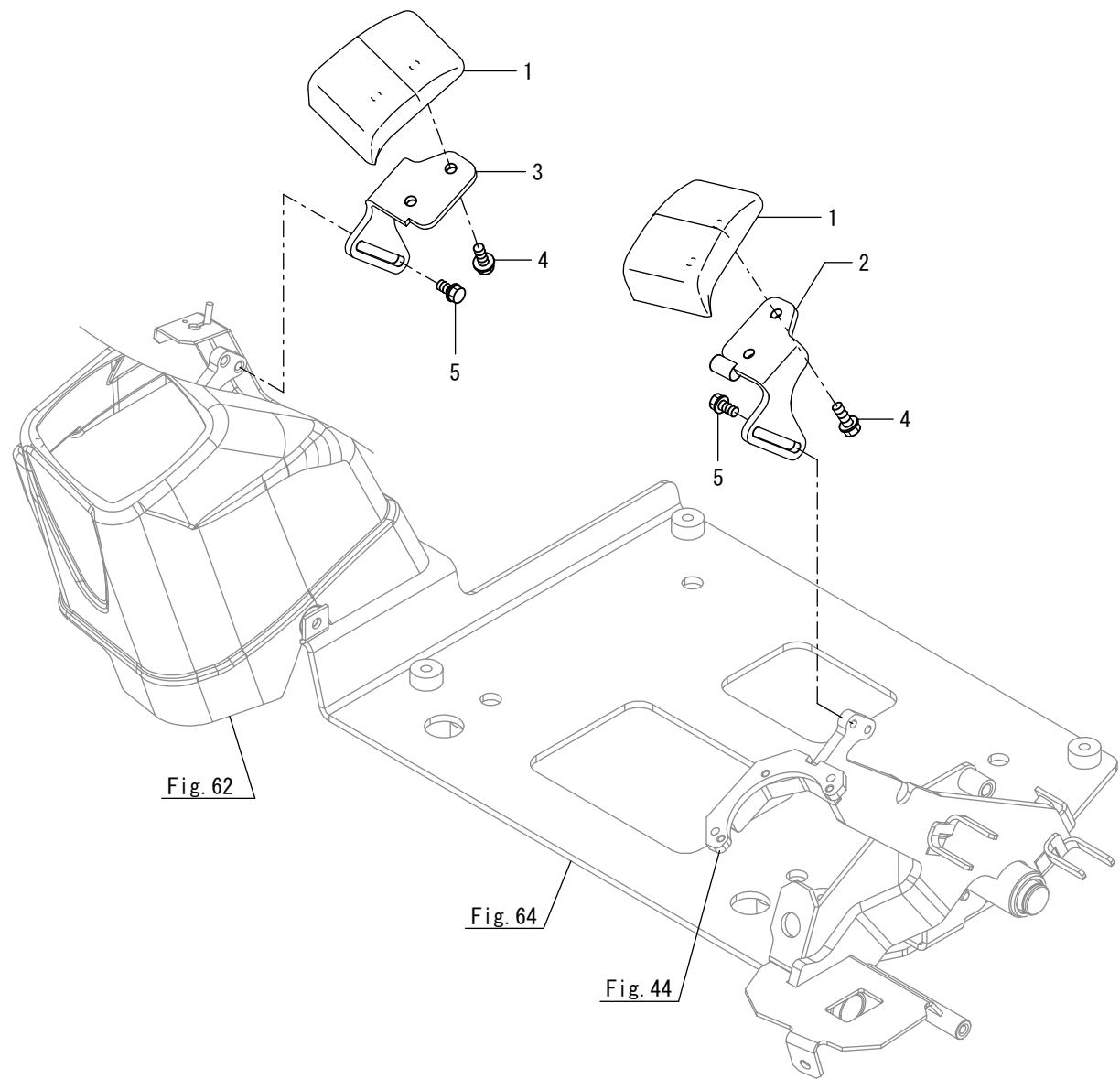
Z80 - COMPACT EXCAVATOR
FIG. 45 - CONTROL EQUIPMENT (PEDAL STAND)

Ref.

No.	Part No.	Description	Qty.
1	50280936	SHAFT, PEDAL COVER	1
2	50280937	COVER,PEDAL(GRAY:49)	1
3	50280938	COVER PAD	1
4	50281646	PLATE,PEDAL EX (49)	1
5	138111	WASHER/POLISHED	1
6	50282419	COTTER PIN 2.5X20	1
7	50282516	BOLT W/WASHER M10X25	6

Z80 - COMPACT EXCAVATOR

FIG. 46 - ARM REST

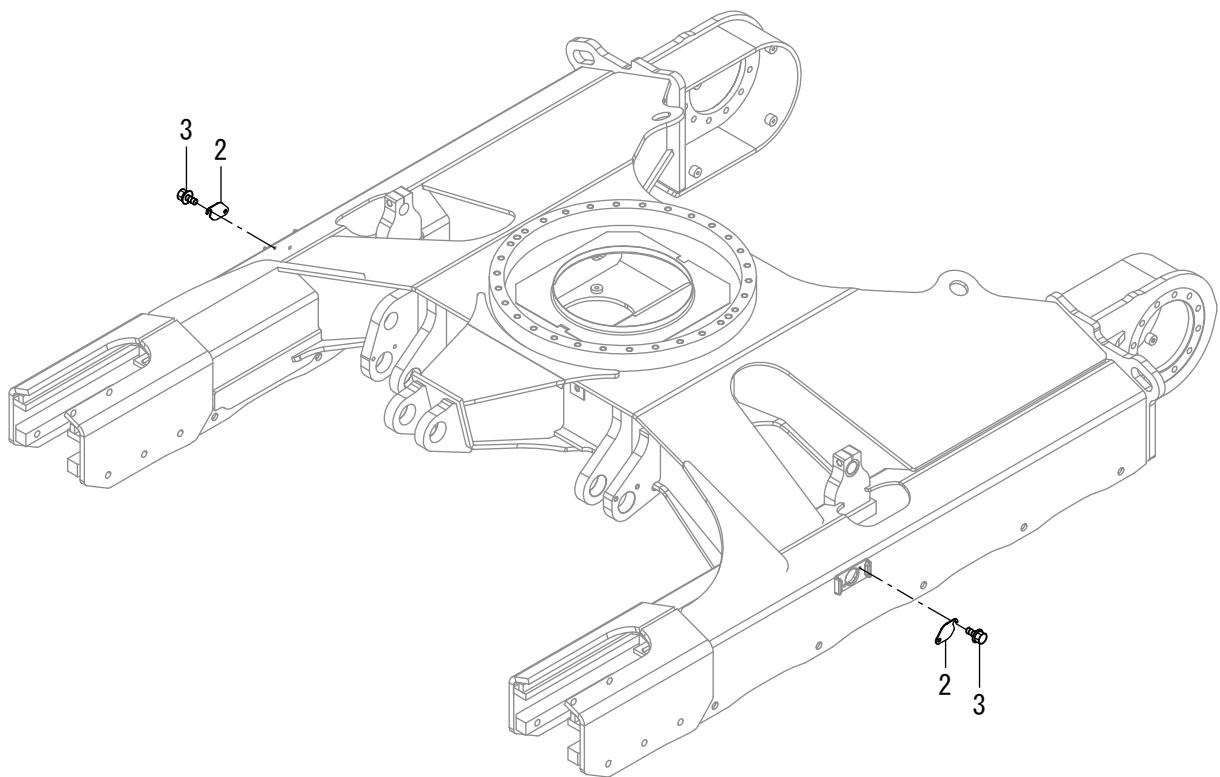


Z80 - COMPACT EXCAVATOR
FIG. 46 - ARM REST

Ref. No.	Part No.	Description	Ref. No.
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

Z80 - COMPACT EXCAVATOR

FIG. 47 - TRAVEL FRAME

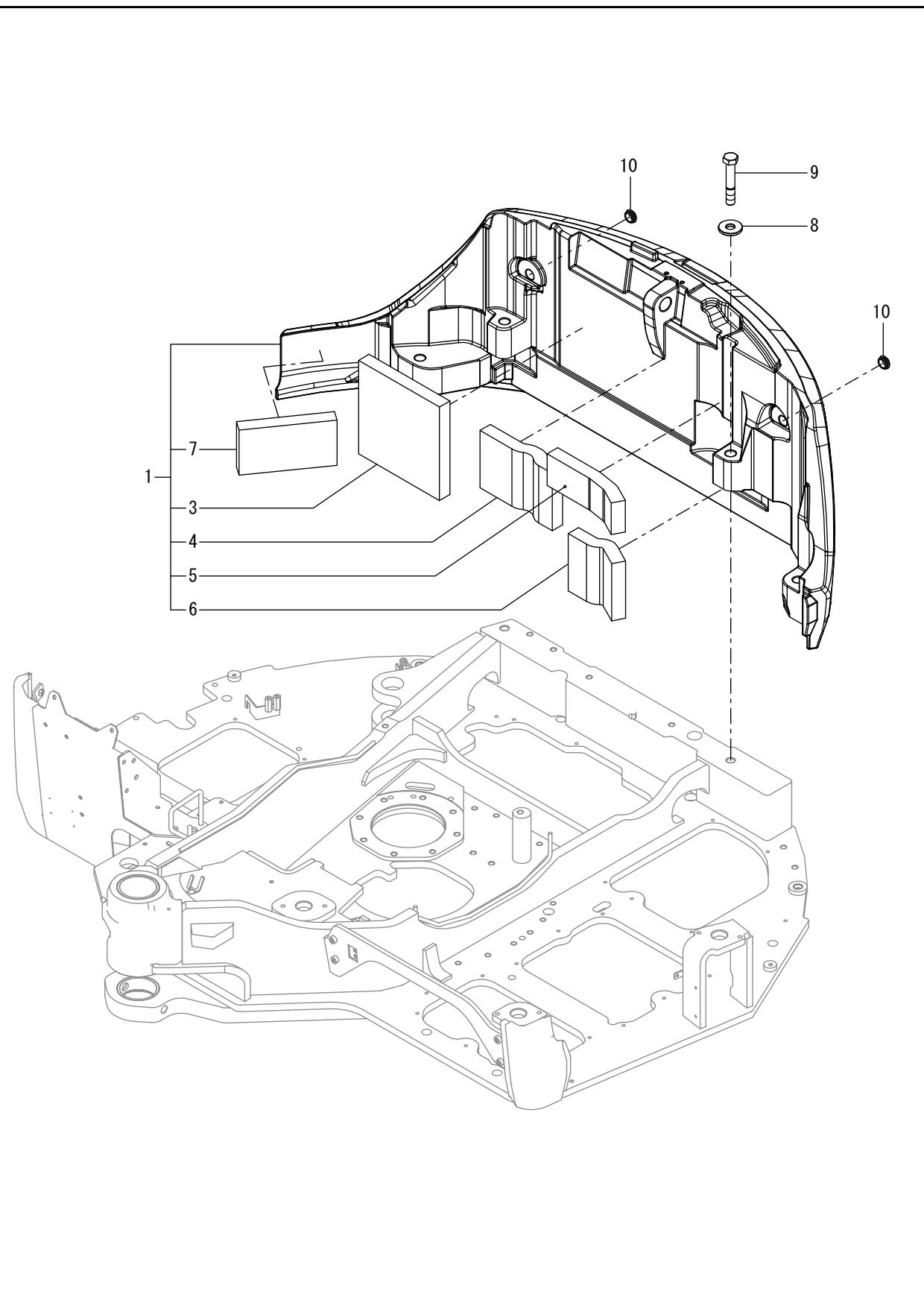


Z80 - COMPACT EXCAVATOR
FIG. 47 - TRAVEL FRAME

Ref. No.	Part No.	Description	Ref. No.
2	50281136	FRAME COVER	2
3	50282558	BOLT M10X 12 PLATED	4

Z80 - COMPACT EXCAVATOR

FIG. 48 - COUNTER WEIGHT

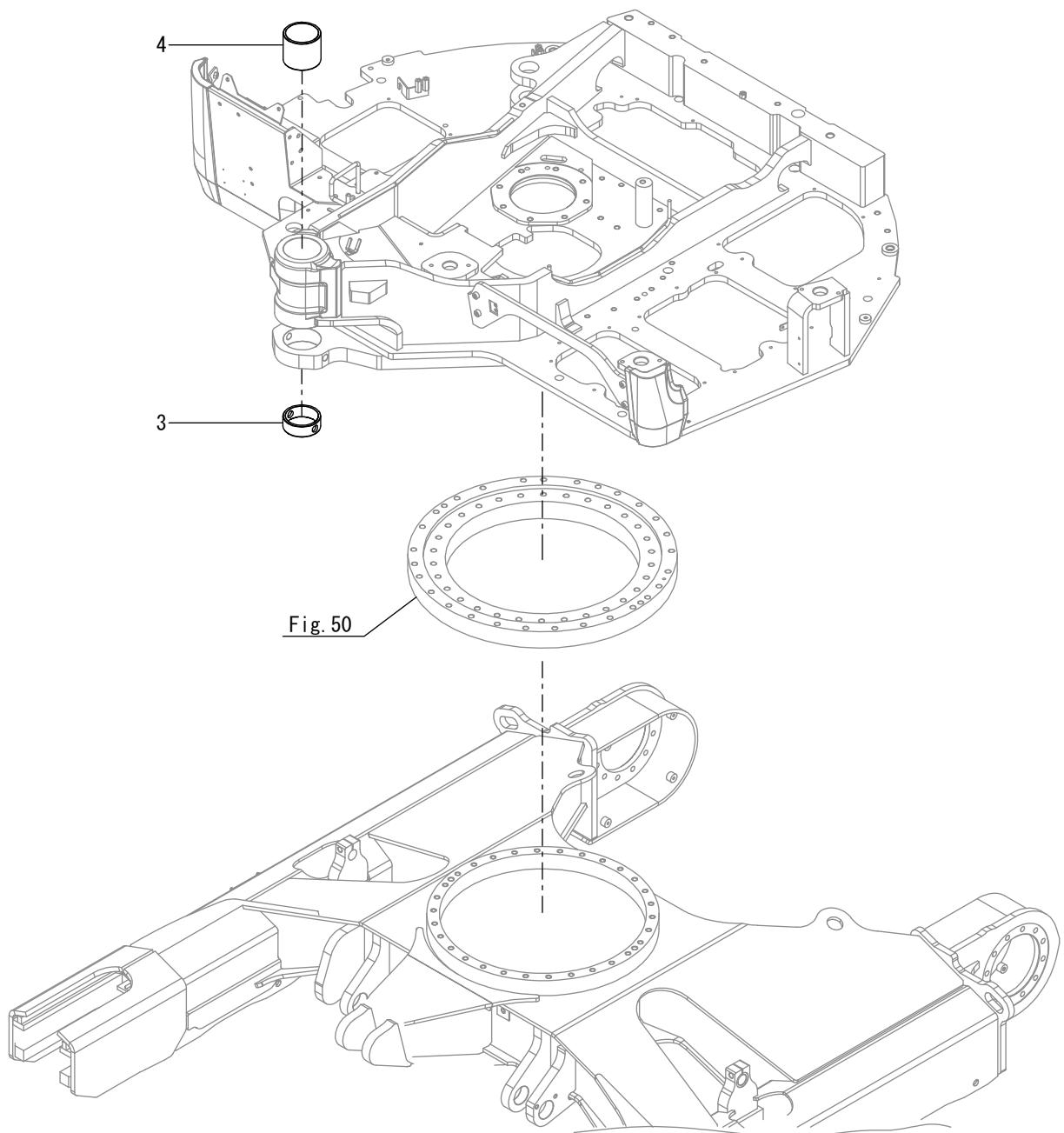


Z80 - COMPACT EXCAVATOR
FIG. 48 - COUNTER WEIGHT

Ref. No.	Part No.	Description	Ref. No.
1	50288461	COUNTERWEIGHT ASSY	1
3	50288462	PAD	1
4	50288463	PAD	1
5	50288464	PAD	1
6	50288465	PAD	1
7	50288466	PAD	1
8	50280943	WASHER 24.5X65X8	4
9	50281072	BOLT 24X140	4
10	50281128	GROMMET 30	2

Z80 - COMPACT EXCAVATOR

FIG. 49 - TURNING FRAME

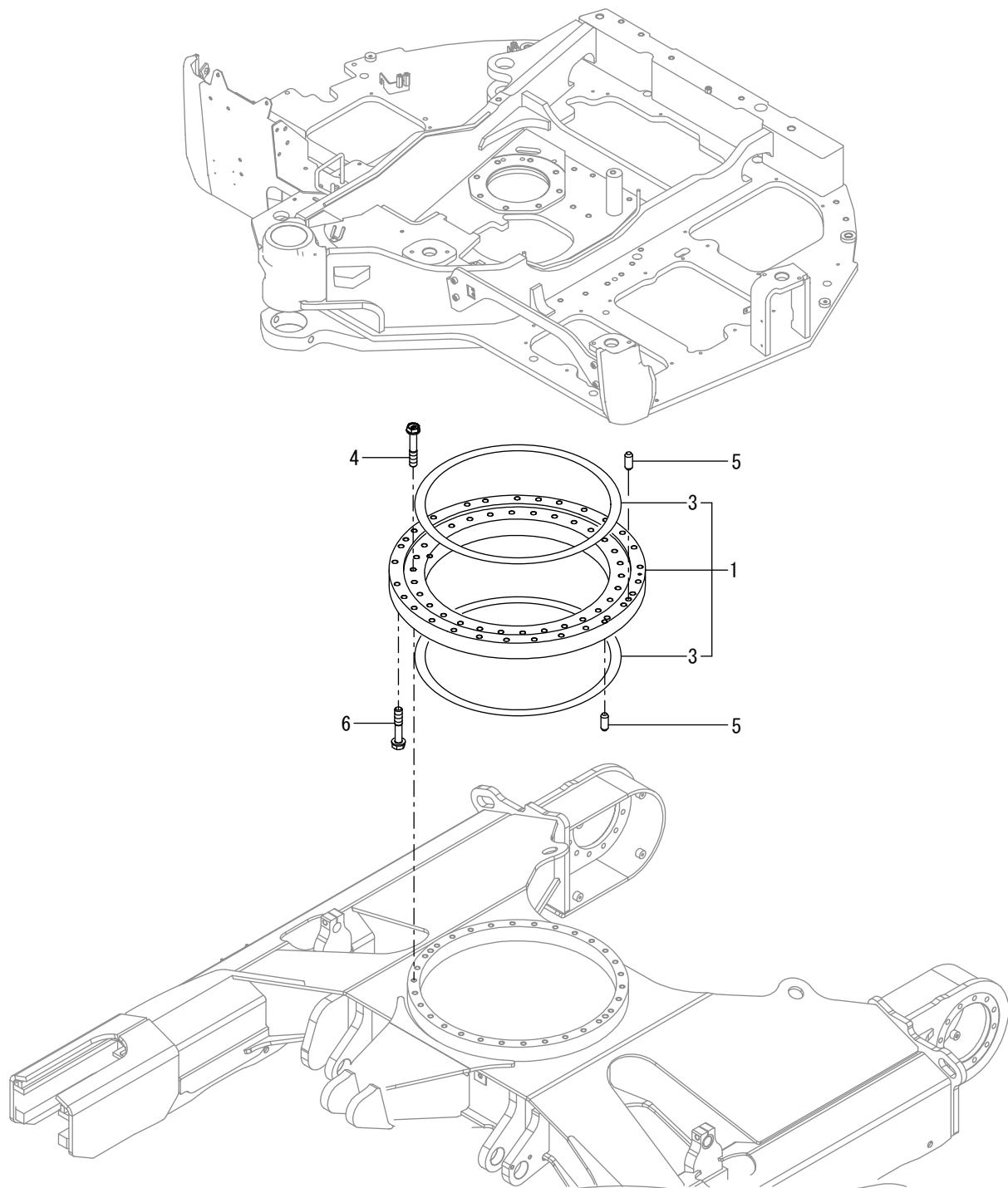


Z80 - COMPACT EXCAVATOR
FIG. 49 - TURNING FRAME

Ref. No.	Part No.	Description	Ref. No.
3	50282180	BUSHING 100X100	1
4	50280944	BUSHING 100X40	1

Z80 - COMPACT EXCAVATOR

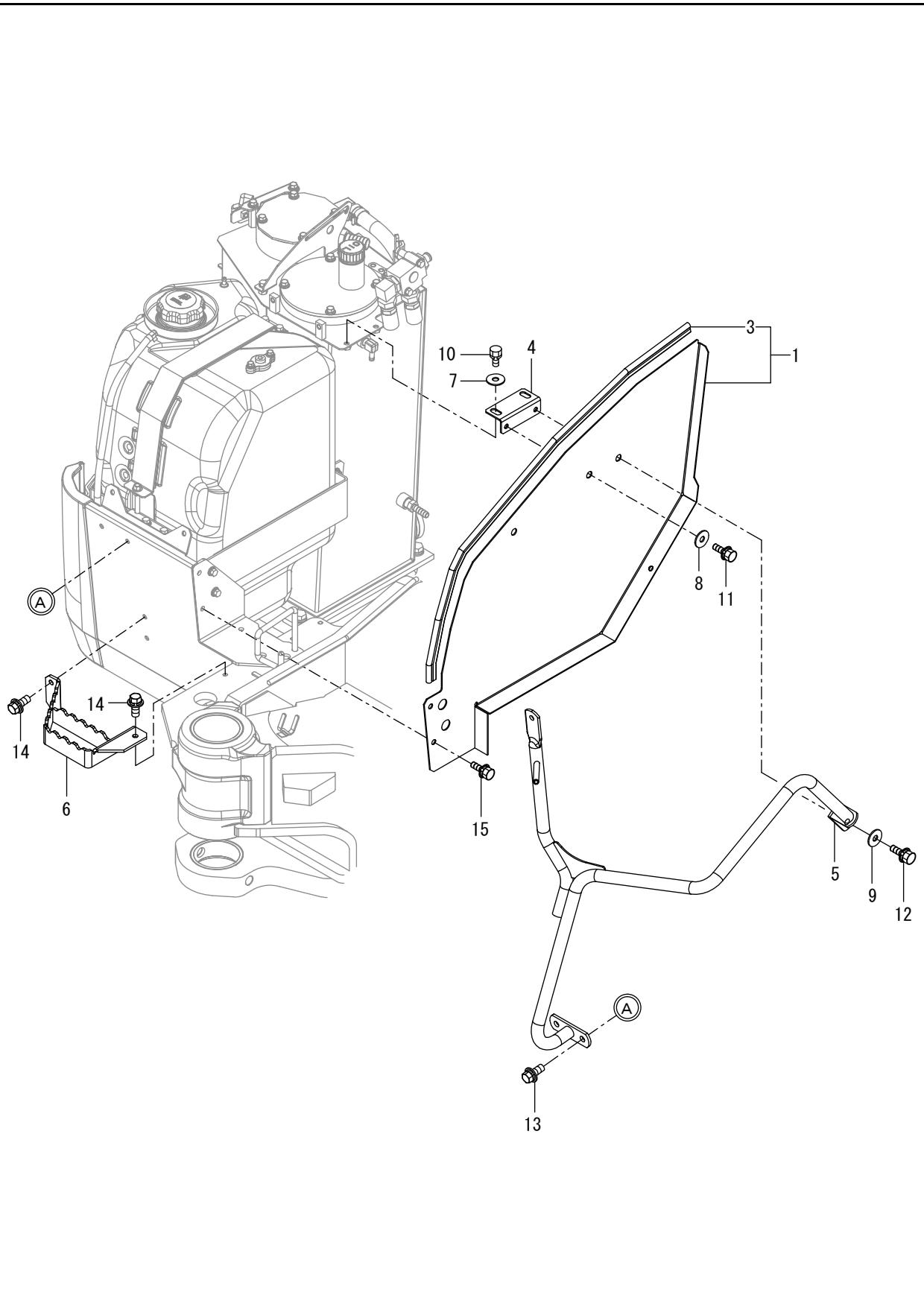
FIG. 50 - TURNING BEARING



Z80 - COMPACT EXCAVATOR
FIG. 50 - TURNING BEARING

Ref. No.	Part No.	Description	Ref. No.
1	50288270	SWING BEARING ASSY	1
3	50282182	SEAL	2
4	50281654	BOLT 10.9 16X90	30
5	50280861	PIN 16X40, STRAIGHT	4
6	50281655	BOLT 10.9 16X85	28

Z80 - COMPACT EXCAVATOR
FIG. 51 - COVER (FUEL TANK SIDE)

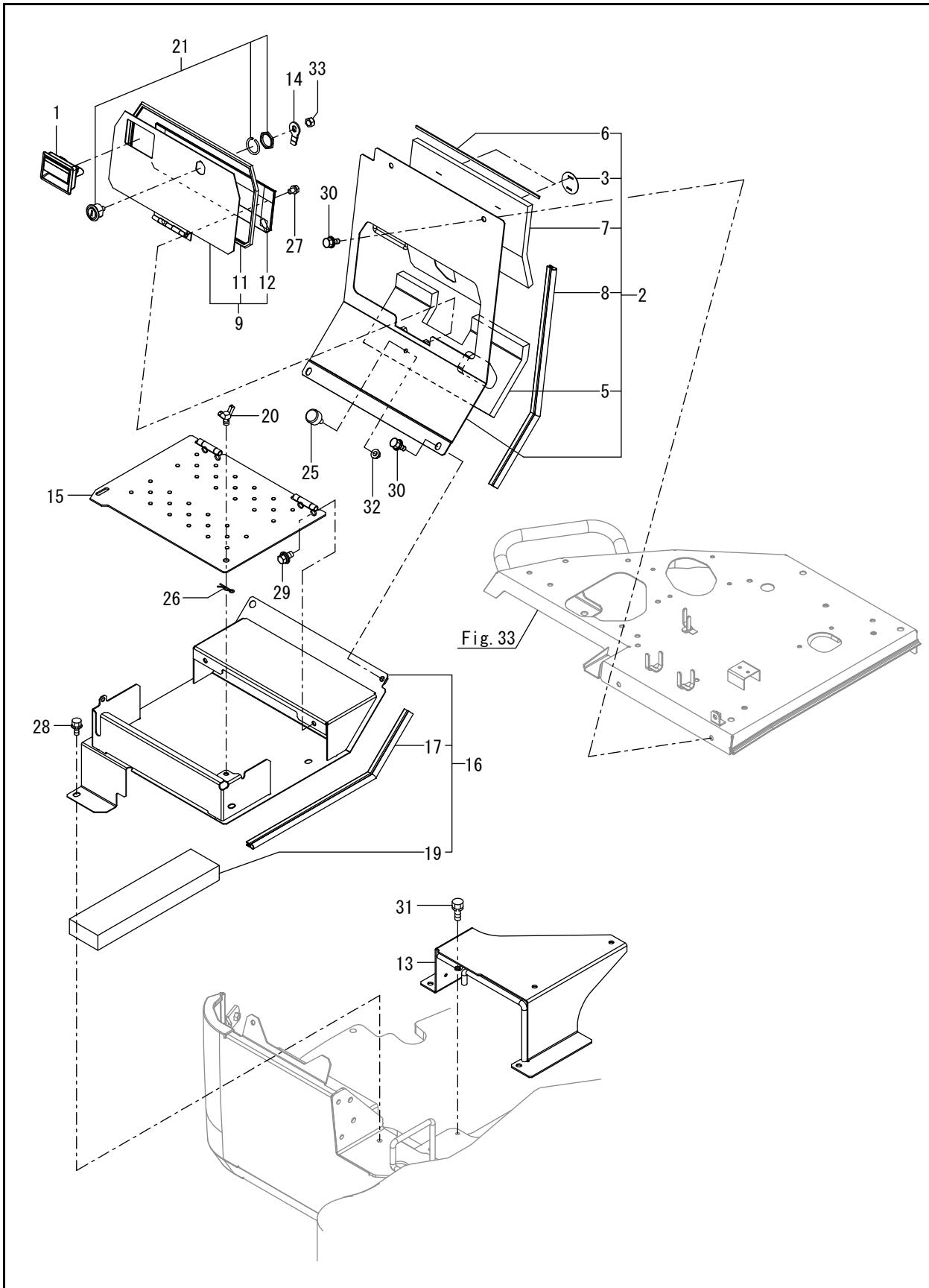


Z80 - COMPACT EXCAVATOR
FIG. 51 - COVER (FUEL TANK SIDE)

Ref. No.	Part No.	Description	Ref. No.
1	50288487	COVER ASSY	1
3	50288489	SEAL	1
4	50288490	BRACKET	1
5	50288500	MIRROR BRACKET	1
6	50281671	STEP CMP	1
7	50282387	WASHER 10	2
8	50282387	WASHER 10	1
9	50282387	WASHER 10	1
10	50282516	BOLT W/WASHER M10X25	2
11	50282516	BOLT W/WASHER M10X25	1
12	50282516	BOLT W/WASHER M10X25	1
13	50282539	BOLT 10X25 W/PLW+SPW	2
14	50282539	BOLT 10X25 W/PLW+SPW	3
15	50282539	BOLT 10X25 W/PLW+SPW	2

Z80 - COMPACT EXCAVATOR

FIG. 53 - COVER (CENTER)



Z80 - COMPACT EXCAVATOR
FIG. 53 - COVER (CENTER)

Ref. No.	Part No.	Description	Ref. No.
1	50280945	HANDLE, LOCK	1
2	50288491	COVER ASSY (replacement also requires labels 8A, 8B)	1
3	50288438	PLATE	2
5	50288493	PAD	1
6	50288494	SEAL	1
7	50288498	INSULATION	1
8	50285594	SEAL,600	1
8A	50287429	LABEL/SILENCER EX **	1
8B	50281425	LABEL, ENG ROOM *	1
9	50288495	ENGINE COVER ASSY (replacement also requires label 12A)	1
11	50281669	SEAL 1020	1
12	50288499	INSULATION	1
12A	50281028	LABEL, ENG,COVER US *	1
13	50282209	COVER BRACKET	1
14	50288497	LOCK TAB	1
15	50282210	TOOL BOX COVER ASSY	1
16	50282211	TOOL BOX BASE	1
17	50281568	SEAL 540	1
19	50286589	PAD	1
20	50280817	WING BOLT,M10X20	1
21	50287772	LOCK W/O KEY ***	1
25	50280912	RUBBER	1
26	50282416	SNAP PIN 10	1
27	50282505	BOLT M 8X 12	2
28	50282538	BOLT M10X 20	3
29	50282538	BOLT M10X 20	2
30	50282538	BOLT M10X 20	4
31	50282538	BOLT M10X 20	3
32	50282548	NUT M 8	1
33	50282576	U-NUT M10	1

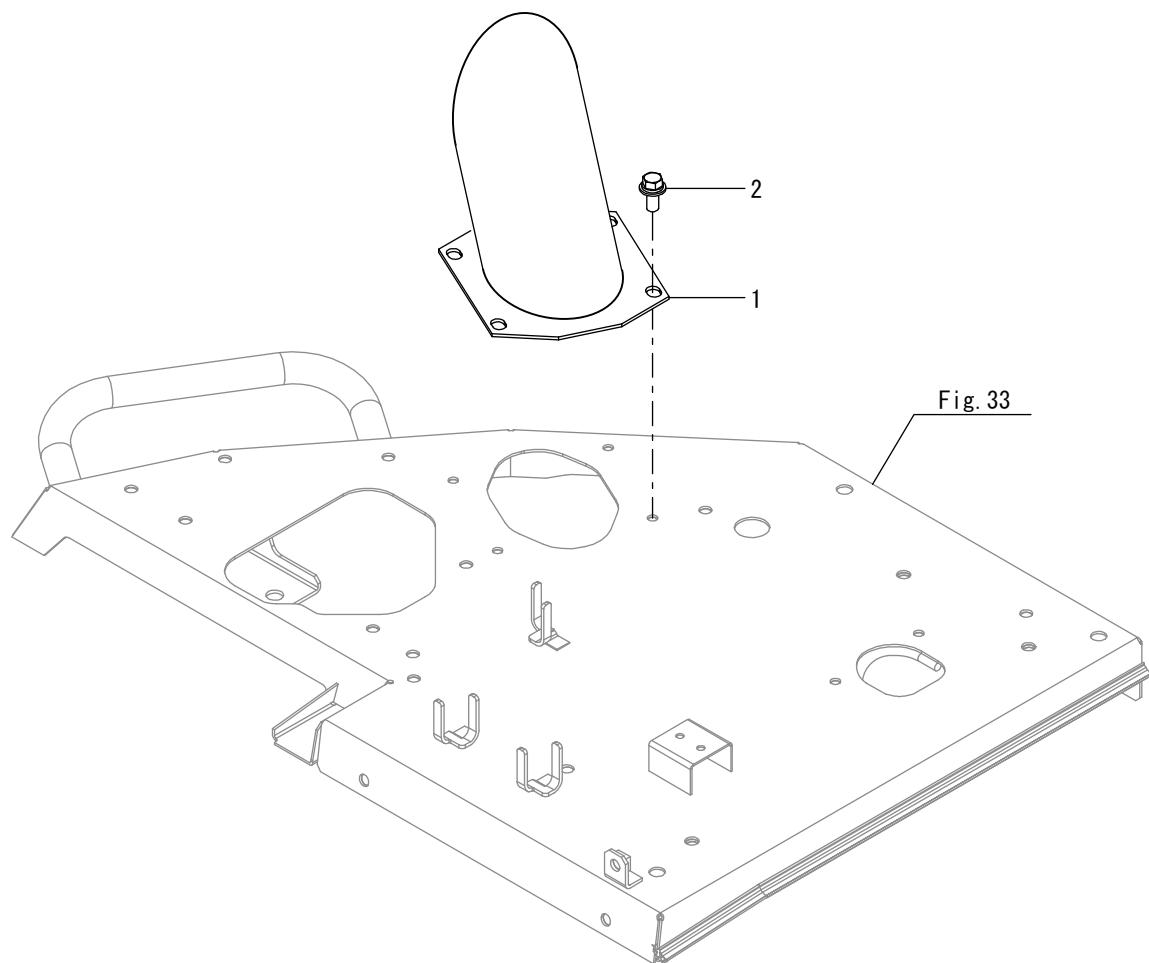
NOTE: * Labels shown on Page 4

** Label shown on Page 4, Page 6

*** Key part number 50288194 (2 keys)

Z80 - COMPACT EXCAVATOR

FIG. 55 - COVER (TAIL)

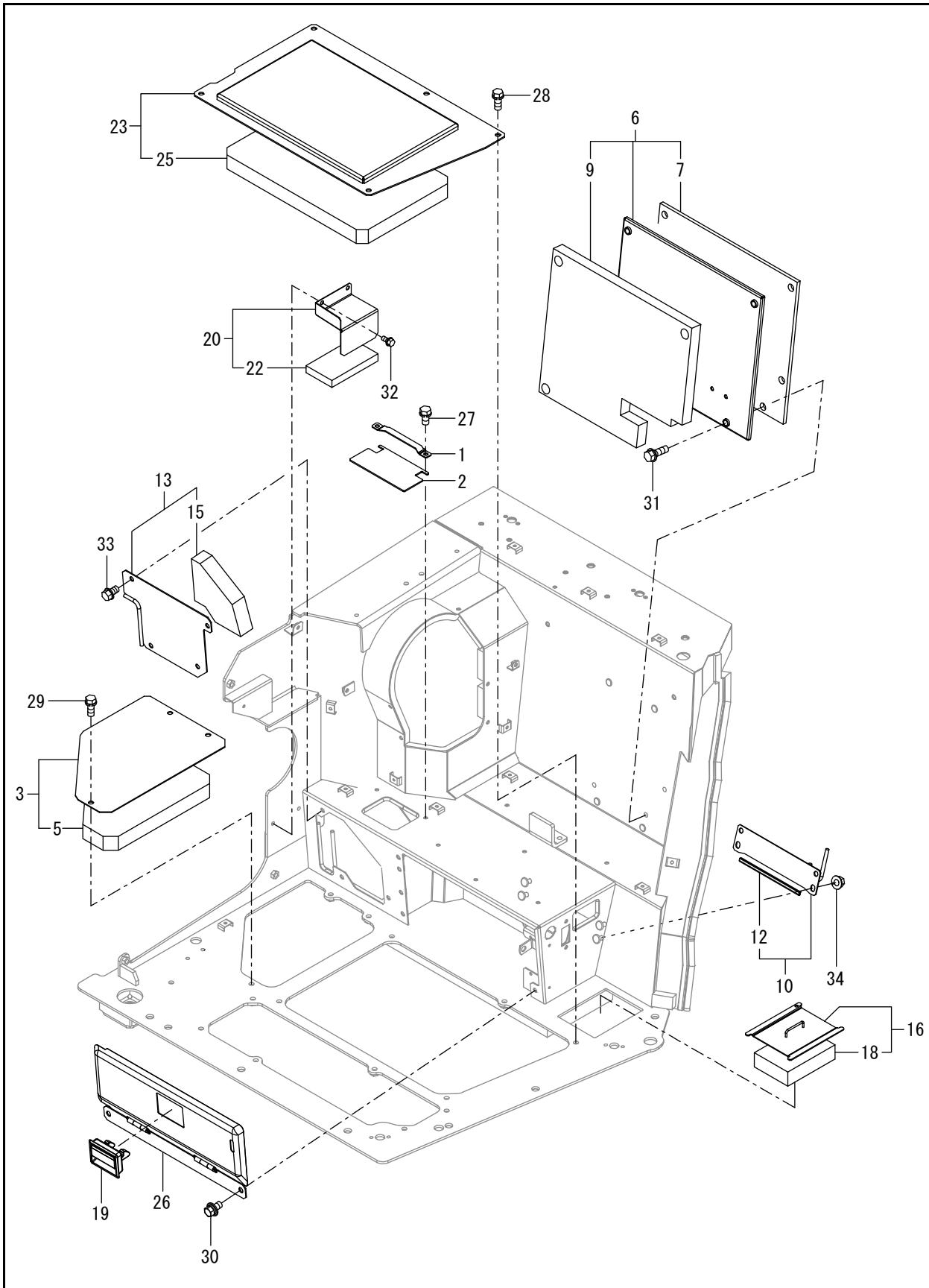


Z80 - COMPACT EXCAVATOR**FIG. 55 - COVER (TAIL)**

Ref. No.	Part No.	Description	Ref. No.
1	50288502	EXHAUST COVER	1
2	50282534	BOLT M 8X 20	4

Z80 - COMPACT EXCAVATOR

FIG. 56 - COVER (SEAT MOUNT)

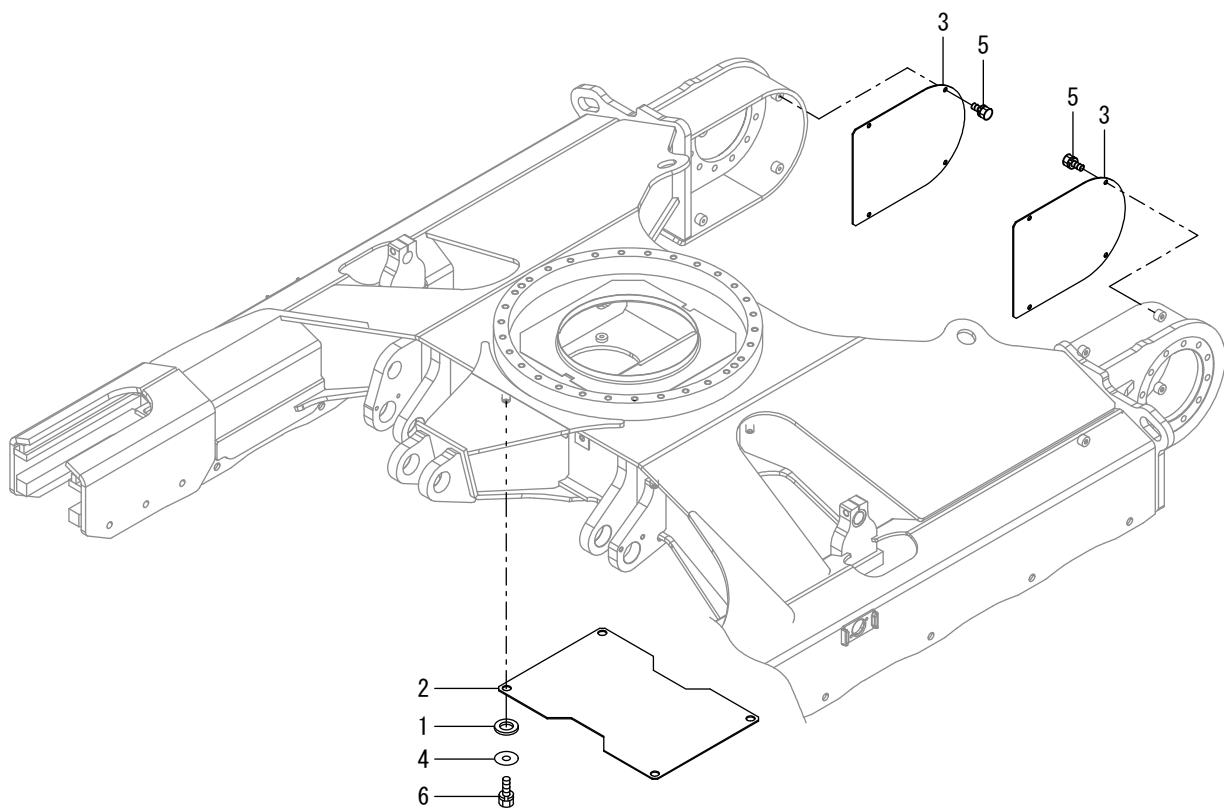


Z80 - COMPACT EXCAVATOR
FIG. 56 - COVER (SEAT MOUNT)

Ref. No.	Part No.	Description	Ref. No.
1	50281656	BRACKET,RUBBER PLATE	1
2	50281657	RUBBER PLATE	1
3	50288467	PANEL ASSY	1
5	50288468	PAD	1
6	50288470	SEAT COVER ASSY	1
7	50281658	EV,COVER SEAT MT	1
9	50288474	PAD	1
10	50288471	COVER ASSY	1
12	50287182	SEAL 190	1
13	50288472	COVER ASSY	1
15	50288473	PAD	1
16	50288475	COVER ASSY	1
18	50288476	PAD	1
19	50280945	HANDLE, LOCK	1
20	50288480	COVER ASSY	1
22	50288482	PAD	1
23	50288504	STEP ASSY	1
25	50288505	PAD	1
26	50281698	COVER ASSY,FL P (49) (replacement also requires label 26A)	1
26A	50281037	LABEL, 2-WAY US *	1
27	50282506	BOLT W/WASHER M8X16	2
28	50282516	BOLT W/WASHER M10X25	5
29	50282516	BOLT W/WASHER M10X25	3
30	50282538	BOLT M10X 20	2
31	50285904	BOLT M10 X 30	4
32	425-34733	BOLT M8 X 16 PLATED	2
33	186619	BOLT M10X 16 PLATED	4
34	50282577	NUT M10	4

NOTE: * Label shown on Page 8

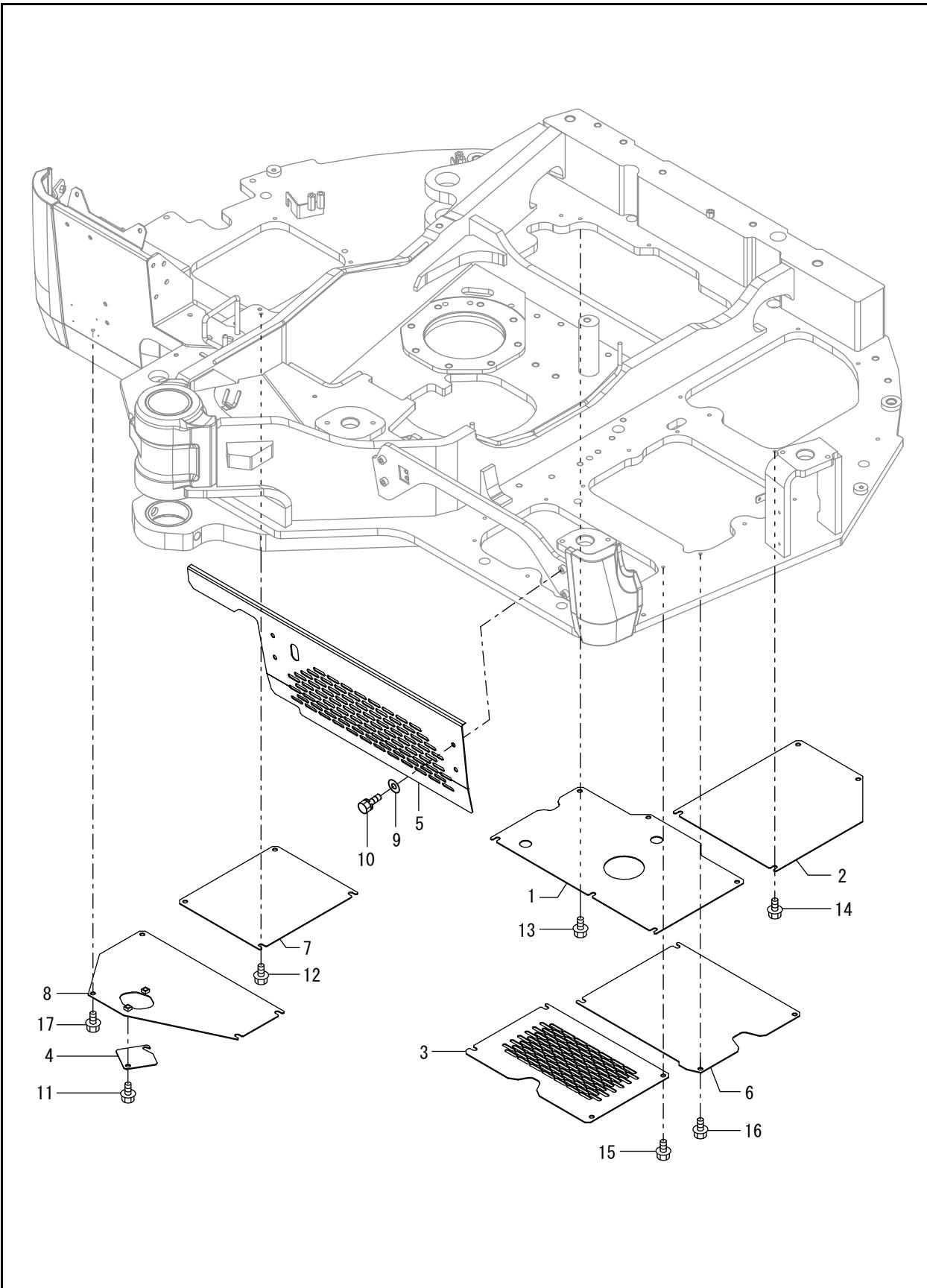
Z80 - COMPACT EXCAVATOR
FIG. 57 - COVER (TRAVEL FRAME)



Z80 - COMPACT EXCAVATOR
FIG. 57 - COVER (TRAVEL FRAME)

Ref. No.	Part No.	Description	Ref. No.
1	50280863	RUBBER	4
2	50280946	COVER	1
3	50282199	TRAVEL COVER	2
4	50282388	WASHER 12	4
5	50282515	BOLT W/WASHER M10X20	8
6	50282525	BOLT W/WASHER M12X30	4

Z80 - COMPACT EXCAVATOR
FIG. 58 - COVER (TURNING FRAME)

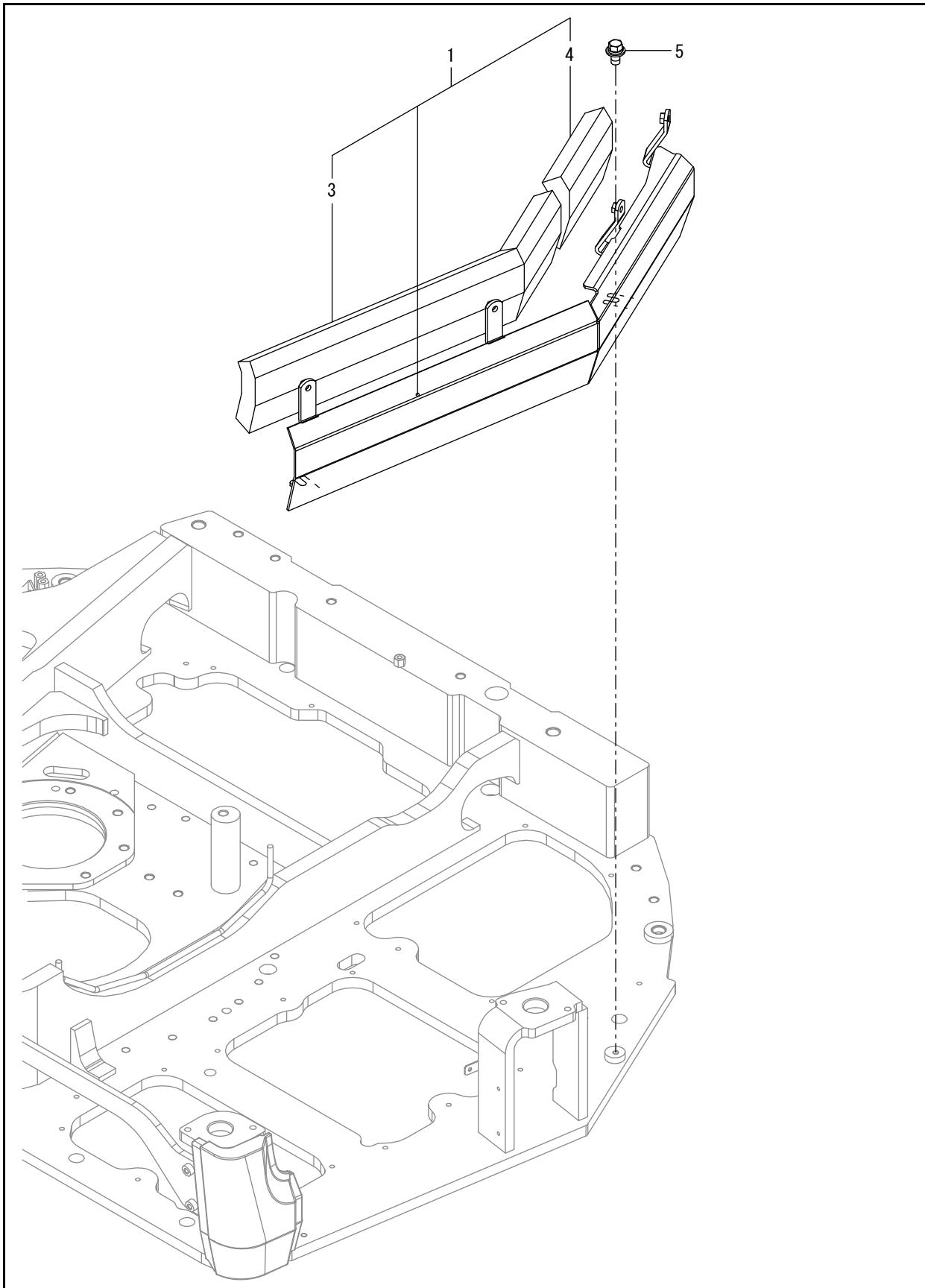


Z80 - COMPACT EXCAVATOR
FIG. 58 - COVER (TURNING FRAME)

Ref. No.	Part No.	Description	Ref. No.
1	50288485	OIL DRAIN COVER	1
2	50282197	PUMP COVER	1
3	50288271	COVER	1
4	50282198	DRAIN COVER	1
5	50288486	FRAME COVER	1
6	50281666	COVER B, C/V	1
7	50282201	RESERVOIR COVER	1
8	50282202	COVER ASSY	1
9	138111	WASHER/POLISHED	4
10	50282514	BOLT M10X 16	4
11	186619	BOLT M10X 16 PLATED	2
12	186619	BOLT M10X 16 PLATED	4
13	186619	BOLT M10X 16 PLATED	6
14	186619	BOLT M10X 16 PLATED	4
15	186619	BOLT M10X 16 PLATED	4
16	186619	BOLT M10X 16 PLATED	4
17	186619	BOLT M10X 16 PLATED	4

Z80 - COMPACT EXCAVATOR

FIG. 59 - FRAME GUARD (LH)



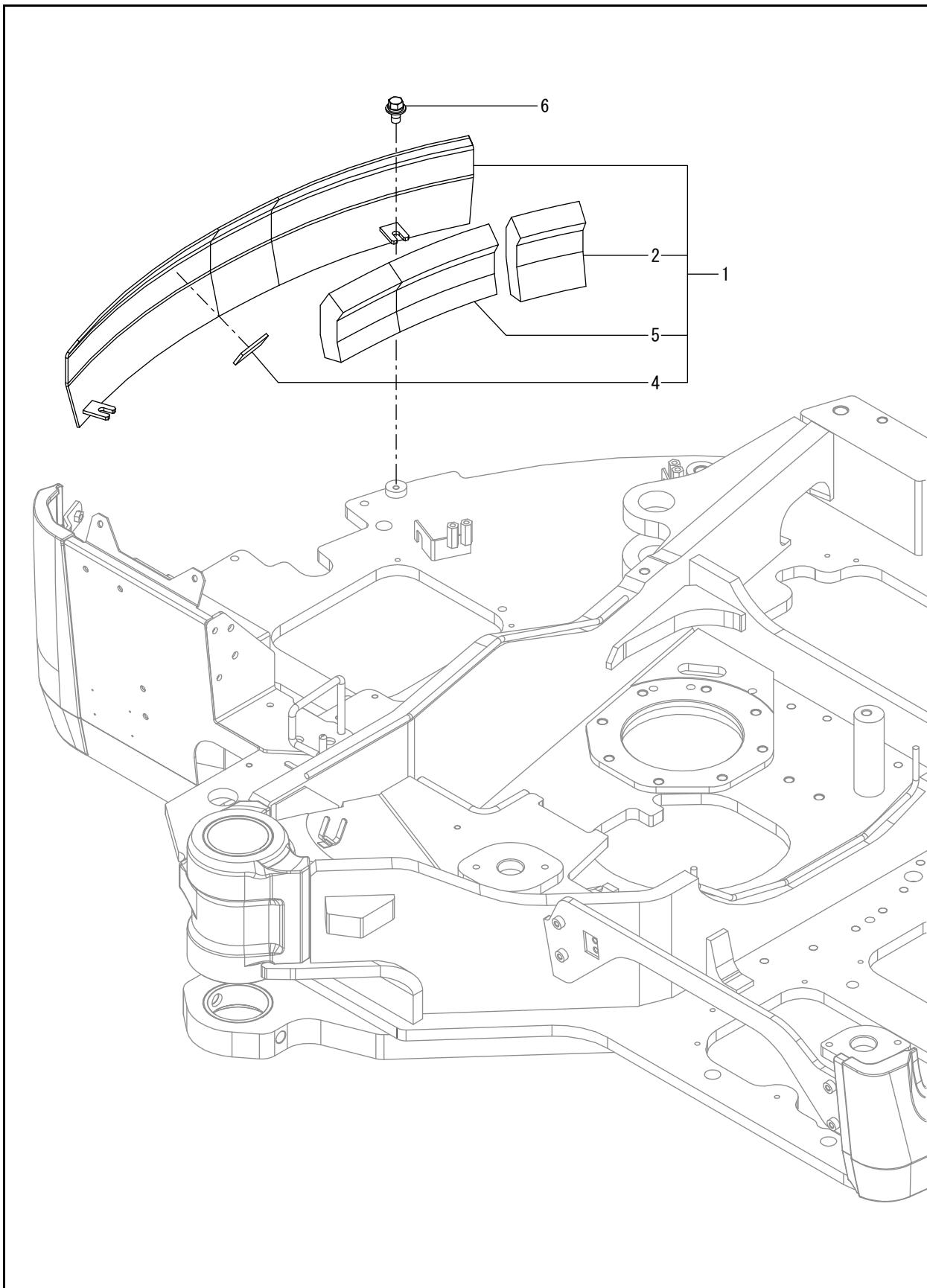
Z80 - COMPACT EXCAVATOR**FIG. 59 - FRAME GUARD (LH)**

Ref. No.	Part No.	Description	Ref. No.
1	50288477	FRAME GUARD ASSY (replacement also requires labels 4A, 4B)	1
3	50288478	PAD	1
4	50288479	PAD	1
4A	50281172	LABEL, SUPPORT US *	1
4B	50281023	LABEL, GREASE CYL. *	1
5	138133	BOLT M10 X 20 PLATED	2

NOTE: * Labels shown on Page 4

Z80 - COMPACT EXCAVATOR

FIG. 60 - FRAME GUARD (RH)



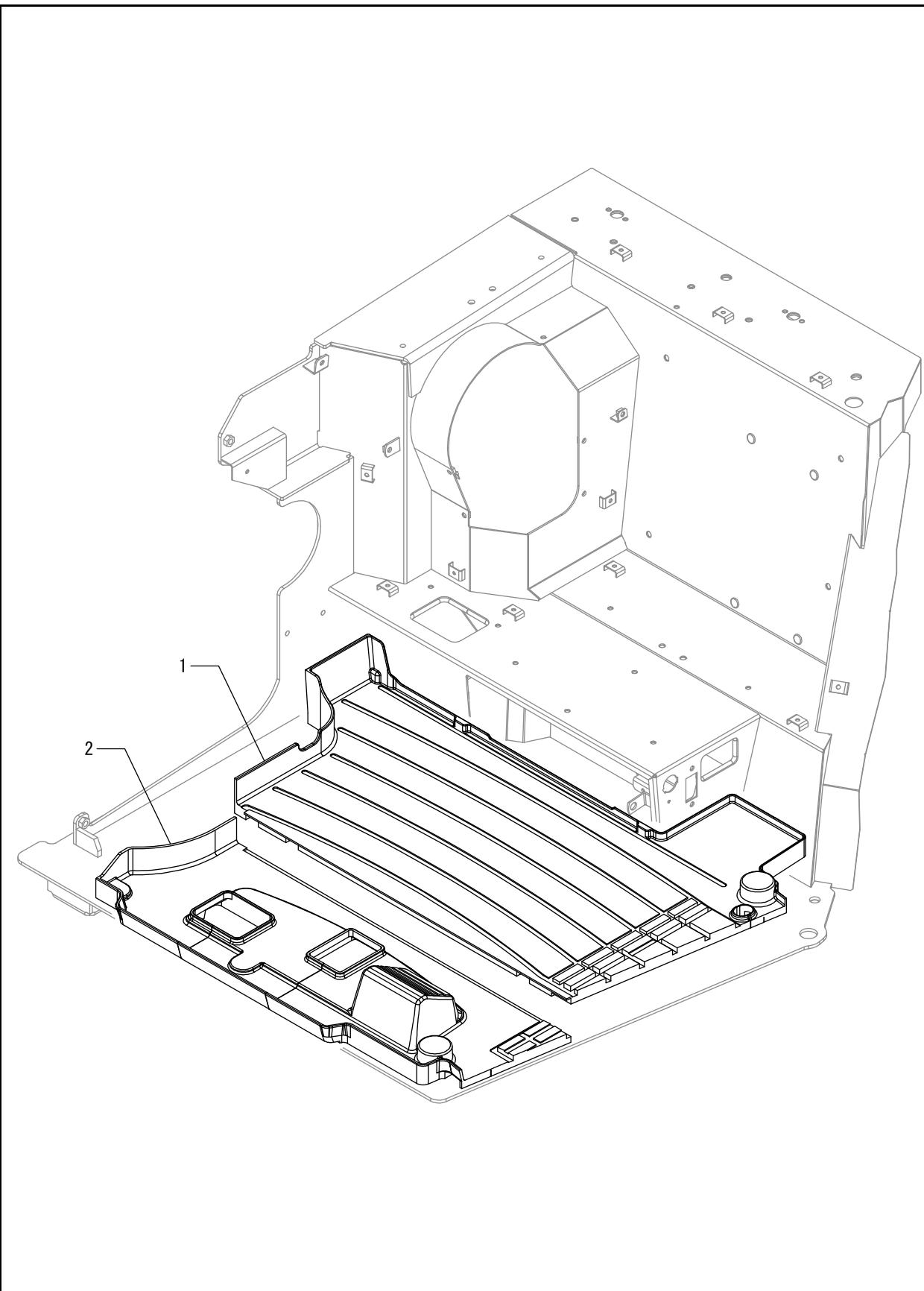
Z80 - COMPACT EXCAVATOR**FIG. 60 - FRAME GUARD (RH)**

Ref. No.	Part No.	Description	Ref. No.
1	50288481	FRAME GUARD ASSY (replacement also requires label 5A)	1
2	50288476	PAD	1
4	50282195	RUBBER, PLATE	1
5	50288503	PAD	1
5A	50281023	LABEL, GREASE CYL.	1
6	138133	BOLT M10 X 20 PLATED	2

NOTE: * Label shown on Page 4

Z80 - COMPACT EXCAVATOR

FIG. 61 - FLOOR MAT

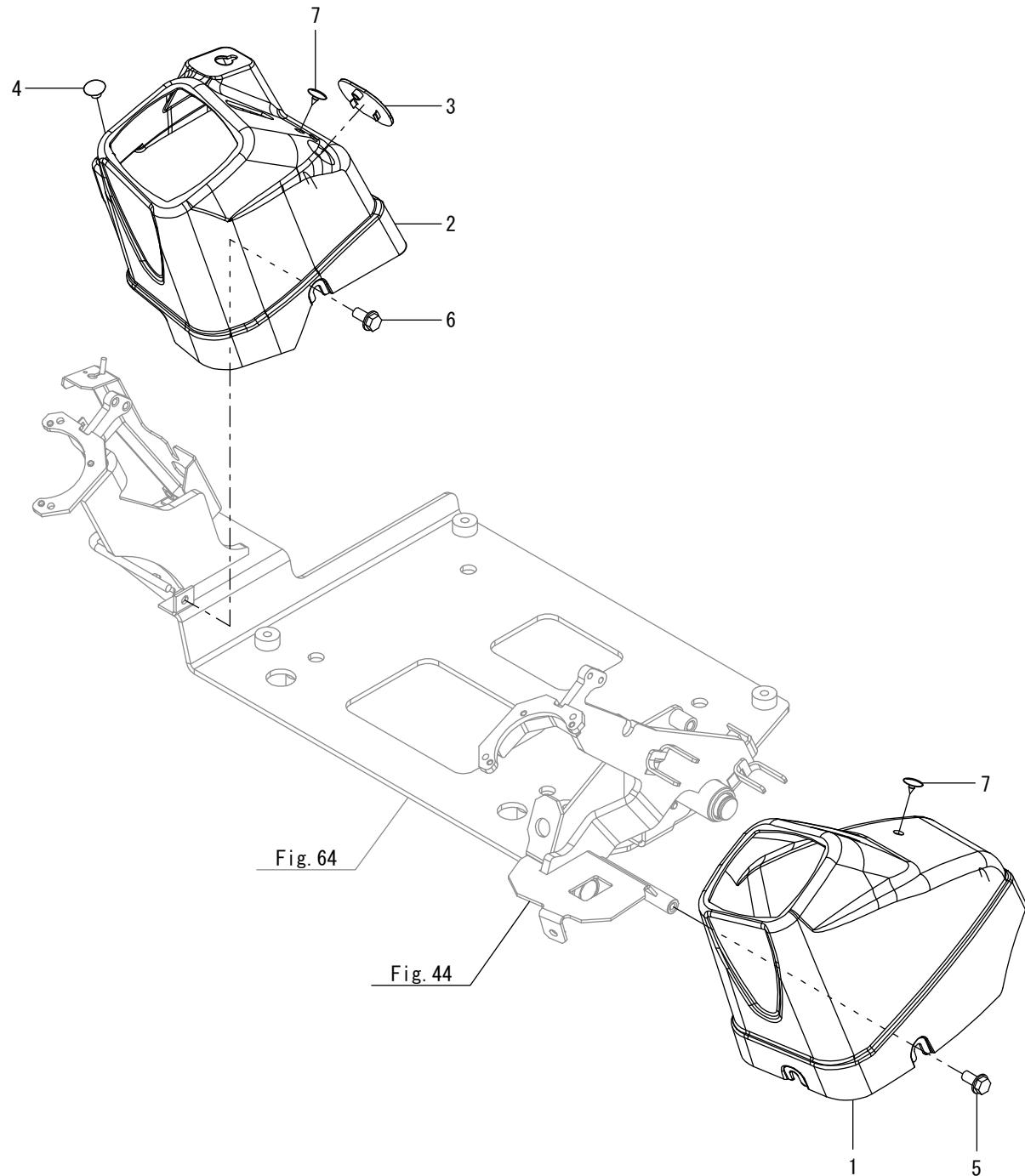


Z80 - COMPACT EXCAVATOR
FIG. 61 - FLOOR MAT

Ref. No.	Part No.	Description	Ref. No.
1	50281673	FLOOR MAT A	1
2	50281674	FLOOR MAT B	1

Z80 - COMPACT EXCAVATOR

FIG. 62 - LEVER BOX

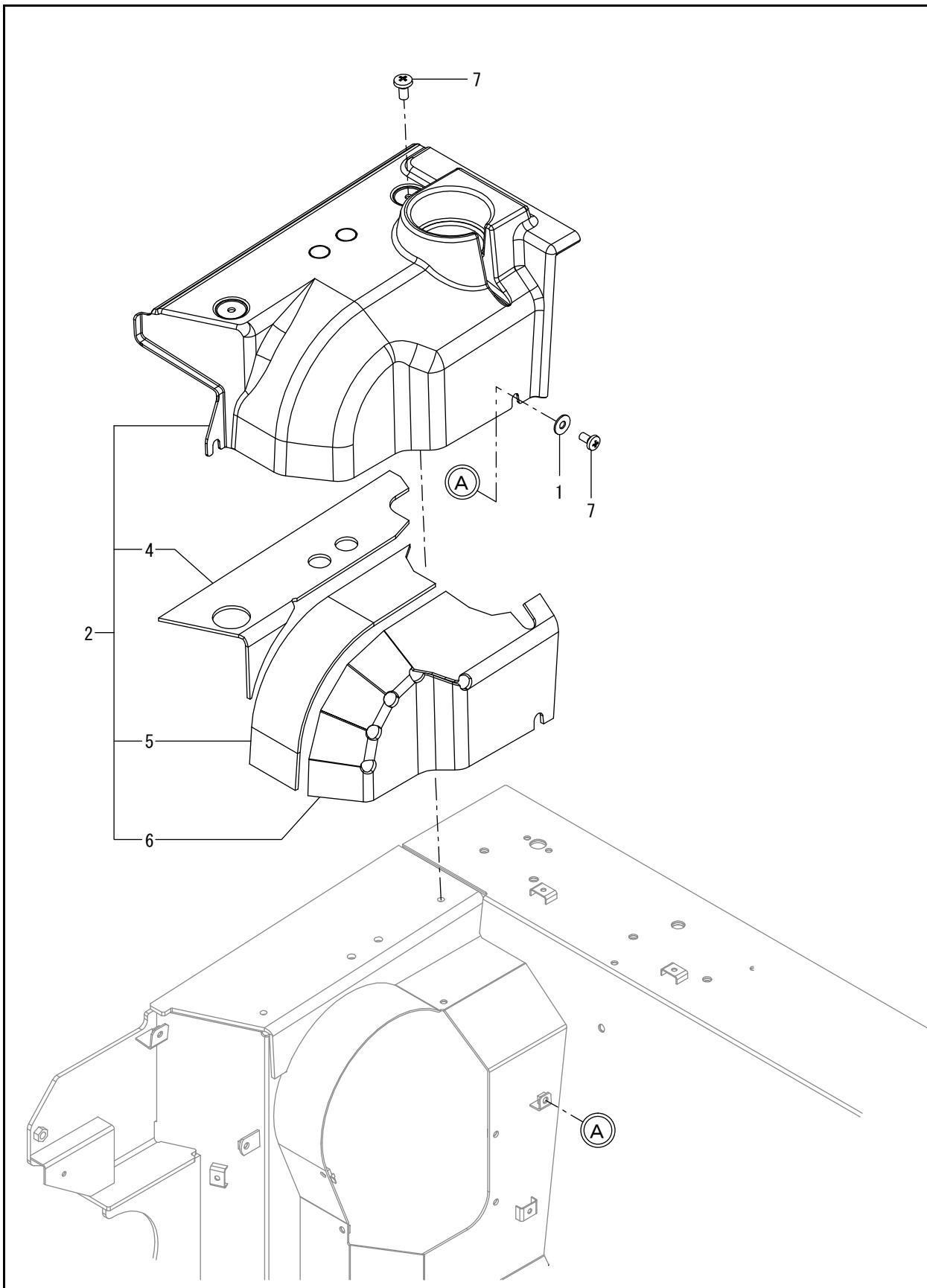


Z80 - COMPACT EXCAVATOR
FIG. 62 - LEVER BOX

Ref. No.	Part No.	Description	Ref. No.
1	50288511	LEFT CONSOLE	1
2	50288512	RIGHT CONSOLE	1
3	50288513	COVER	1
4	50280947	CLIP	1
5	50281318	BOLT 8X 16	3
6	50281318	BOLT 8X 16	2
7	50284234	CLIP, TREE	2

Z80 - COMPACT EXCAVATOR

FIG. 63 - SIDE COVER

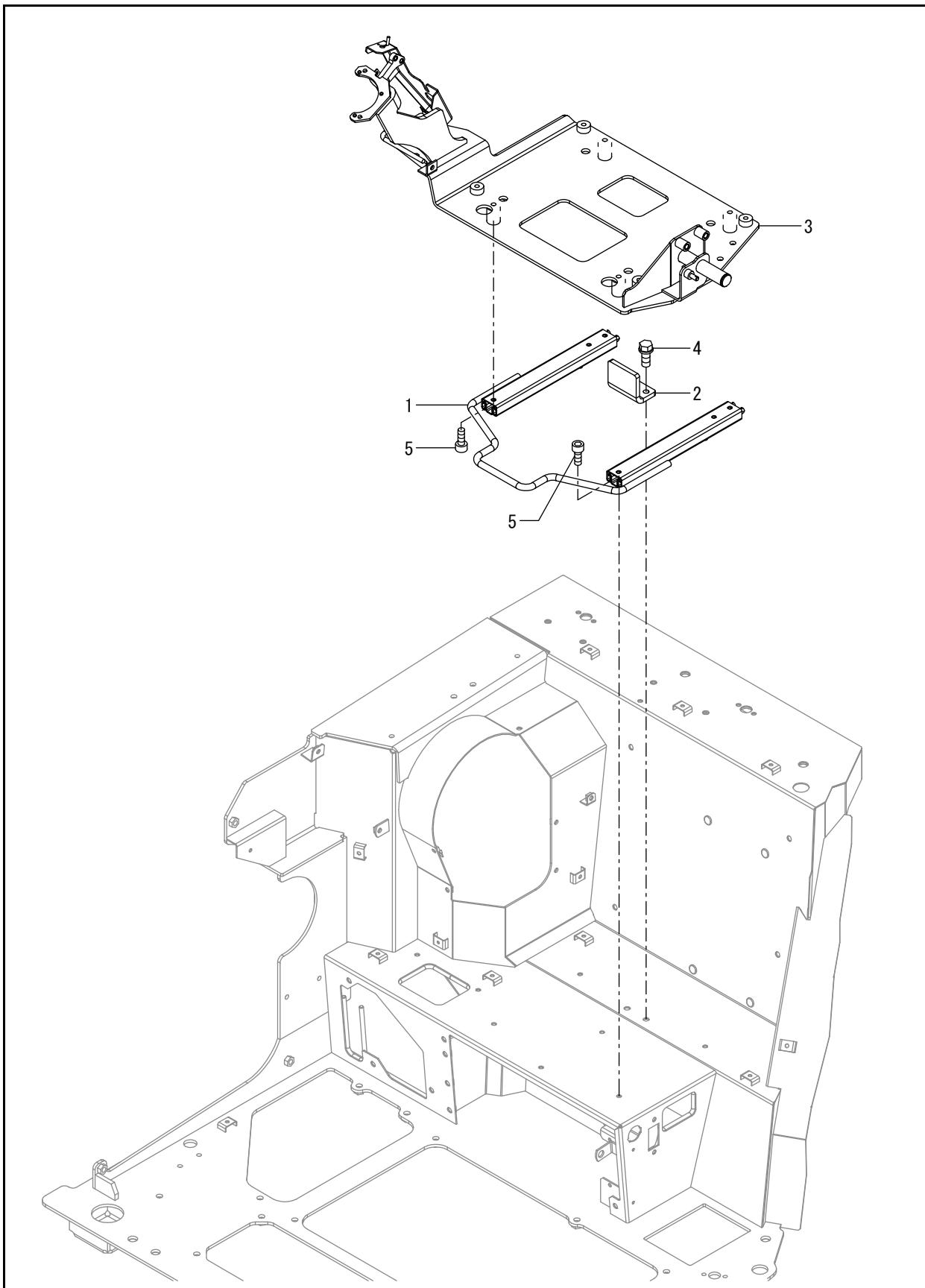


Z80 - COMPACT EXCAVATOR
FIG. 63 - SIDE COVER

Ref. No.	Part No.	Description	Ref. No.
1	50282970	WASHER M8	1
2	50288515	SIDE CONSOLE ASSY	1
4	50288516	INSULATION	1
5	50288517	INSULATION	1
6	50288518	INSULATION	1
7	50282721	SCREW	3

Z80 - COMPACT EXCAVATOR

FIG. 64 - SEAT SLIDE

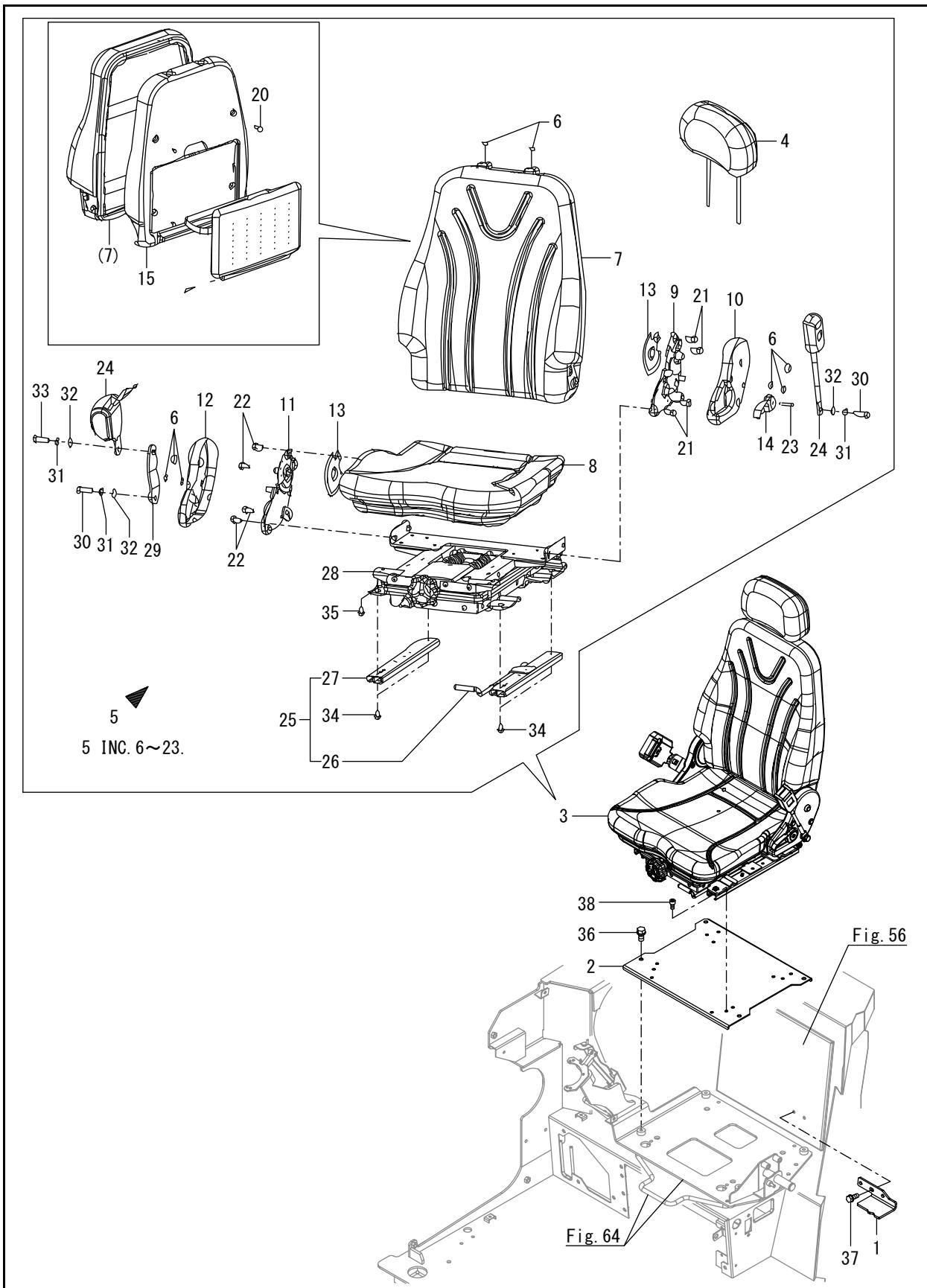


Z80 - COMPACT EXCAVATOR
FIG. 64 - SEAT SLIDE

Ref. No.	Part No.	Description	Ref. No.
1	50281688	SLIDE ASSY,SEAT	1
2	50281697	PLATE,STOPPER	1
3	50288538	SLIDE FRAME	1
4	50282516	BOLT W/WASHER M10X25	2
5	50282585	BOLT, M8X16	8

Z80 - COMPACT EXCAVATOR

FIG. 65 - SEAT

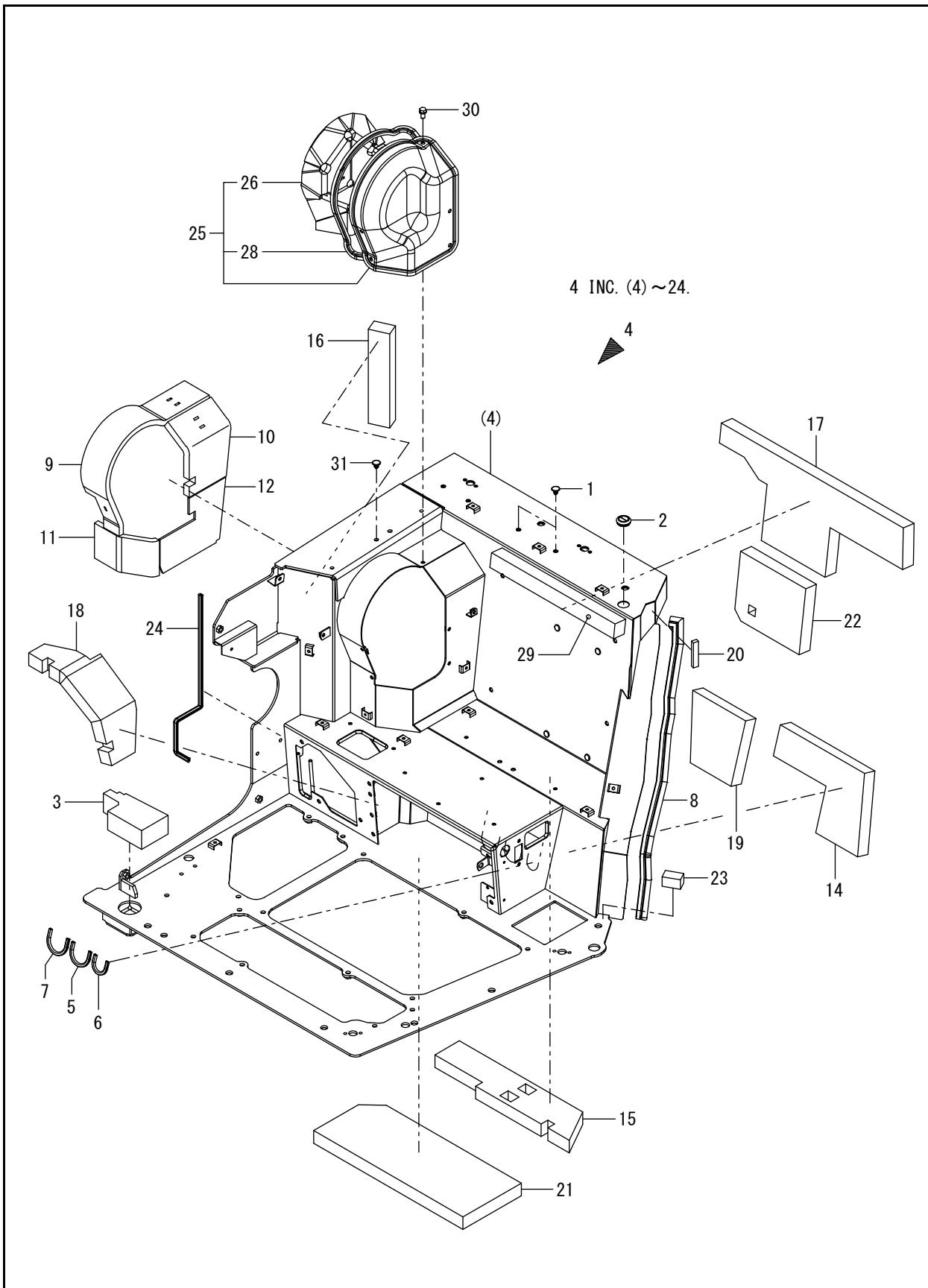


Z80 - COMPACT EXCAVATOR
FIG. 65 - SEAT

Ref. No.	Part No.	Description	Ref. No.
1	50288469	BRACKET	1
2	50288259	SEAT PLATE	1
3	50288260	SEAT ASSY	1
4	50288272	HEADREST	1
5	50288273	OPERATOR SEAT	1
6	50288275	CAP	1
7	50288276	SEAT BACK	1
8	50287187	SEAT/CUSHION	1
9	50287191	HINGE ASSY	1
10	50287192	COVER	1
11	50287193	HINGE ASSY	1
12	50287194	COVER	1
13	50287196	COVER	2
14	50287197	LEVER	1
15	50288277	BOX	1
20	50288153	SCREW	4
21	186619	BOLT M10X 16 PLATED	4
22	186619	BOLT M10X 16 PLATED	4
23	50288181	SCREW	1
24	50287186	BELT ASSY/SEAT	1
25	50288274	RAIL ASSY	1
26	50287189	RAIL ASSY	1
27	50287190	RAIL ASSY	1
28	50287188	SEAT/SPRING	1
29	50287195	BRACKET ASSY	1
30	50287198	BOLT	2
31	50287199	SPRING	3
32	50287200	WASHER	3
33	50287201	BOLT	1
34	425-34733	BOLT M8 X 16 PLATED	4
35	425-34733	BOLT M8 X 16 PLATED	4
36	50282514	BOLT M10X 16	4
37	50282533	BOLT M 8X 16	2
38	50282585	BOLT, M8X16	4

Z80 - COMPACT EXCAVATOR

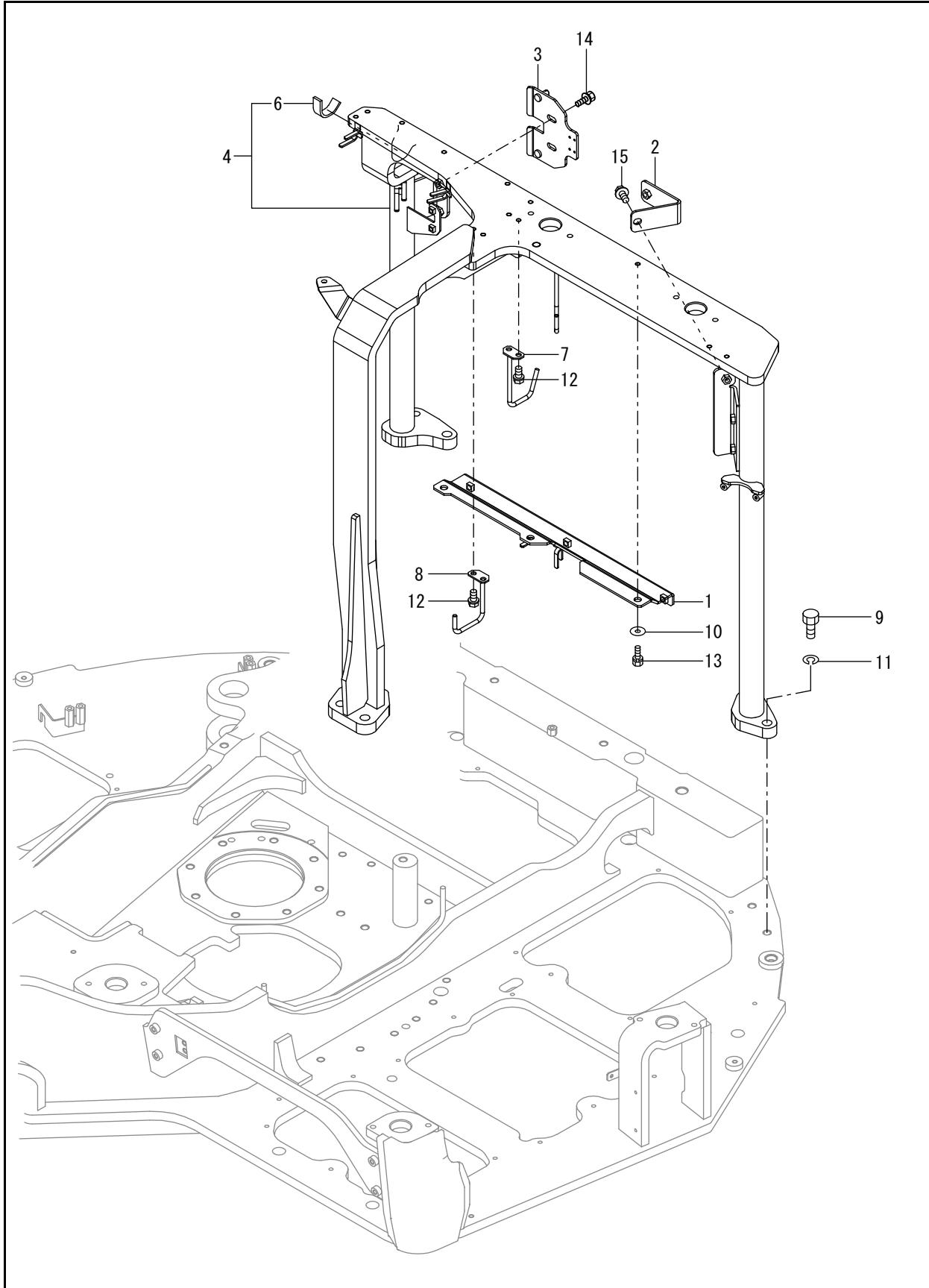
FIG. 66 - SEAT MOUNT



Z80 - COMPACT EXCAVATOR
FIG. 66 - SEAT MOUNT

Ref. No.	Part No.	Description	Ref. No.
1	50280782	CLIP	2
2	50288443	GROMMET	1
3	50288506	PAD	1
4	50288520	SEAT BASE	1
5	50281049	SEAL 125	1
6	50281134	MOLDING	1
7	50281322	SEAL,135	1
8	50280862	SEAL,COVER A	1
9	50288521	PAD	1
10	50288522	PAD	1
11	50288523	INSULATION	1
12	50288524	INSULATION	1
14	50288528	PAD	1
15	50288529	PAD	1
16	50288530	PAD	1
17	50288531	PAD	1
18	50288532	PAD	1
19	50288533	PAD	1
20	50286497	TRIM	1
21	50288534	PAD	1
22	50288535	PAD	1
23	50288536	SEAL	1
24	50280951	RUBBER 580	1
25	50288525	COVER ASSY	1
26	50288526	PAD	1
28	50288537	SEAL	1
29	50288527	PAD	1
30	50282506	BOLT W/WASHER M8X16	5
31	50280782	CLIP	2

Z80 - COMPACT EXCAVATOR
FIG. 67 - CABIN MOUNT (BRACKET)

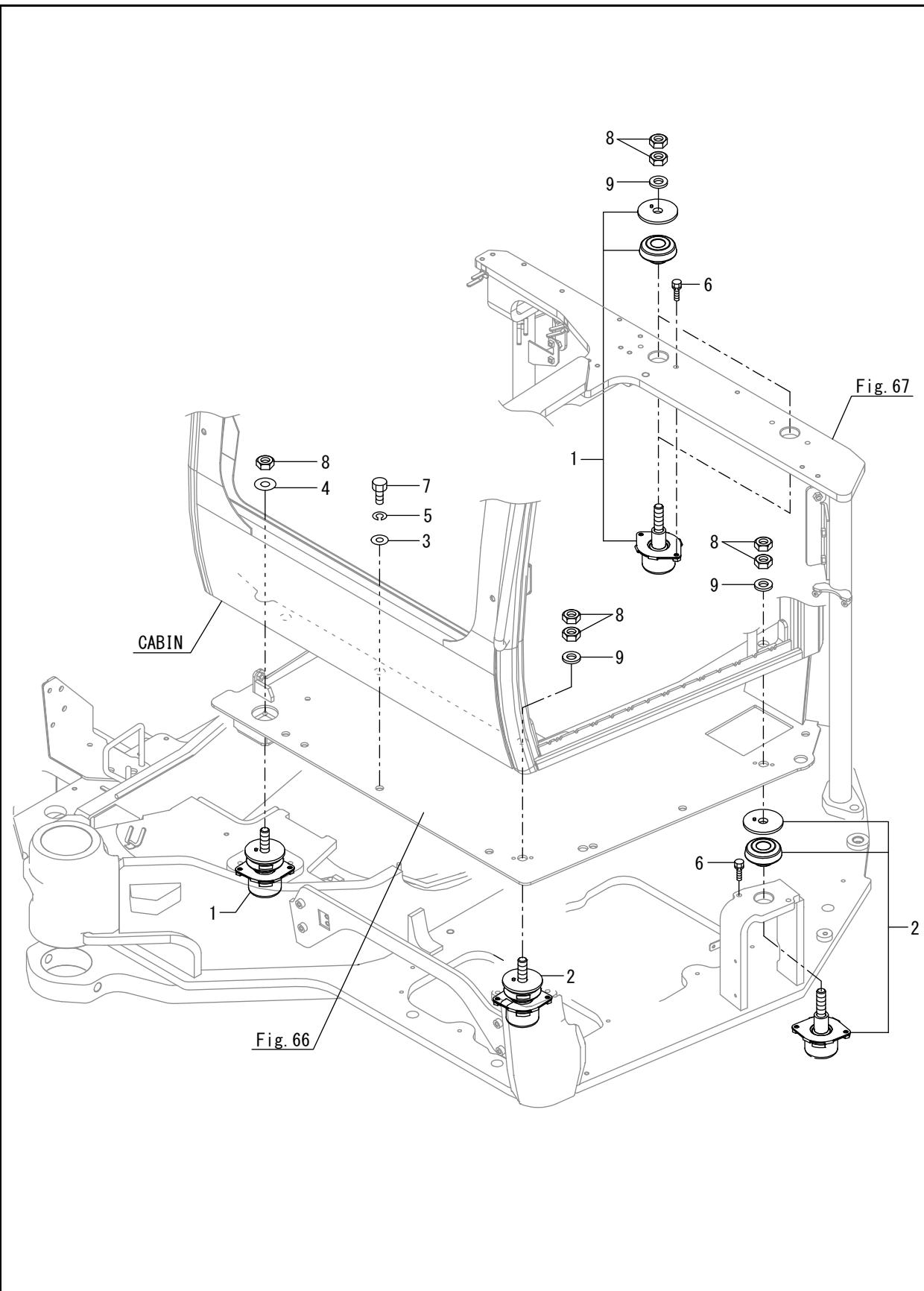


Z80 - COMPACT EXCAVATOR
FIG. 67 - CABIN MOUNT (BRACKET)

Ref. No.	Part No.	Description	Ref. No.
1	50282224	BK ASSY,BONNET A	1
2	50282228	STAY ASSY,BONNET L	1
3	50282232	BRACKET ASSY, BR	1
4	50288556	CAB MOUNT BRACKET	1
6	50282236	SOUND SHIELD,105	1
7	50282234	GUIDE ASSY,C HOSE	1
8	50282235	GUIDE ASSY,E HOSE	1
9	50281146	BOLT	6
10	50282387	WASHER 10	3
11	50282396	SPRING WASHER 16	6
12	50282515	BOLT W/WASHER M10X20	4
13	50282516	BOLT W/WASHER M10X25	3
14	50282539	BOLT 10X25 W/PLW+SPW	2
15	50282539	BOLT 10X25 W/PLW+SPW	1

Z80 - COMPACT EXCAVATOR

FIG. 68 - CABIN MOUNT (ANTI-VIBRATION MOUNT)

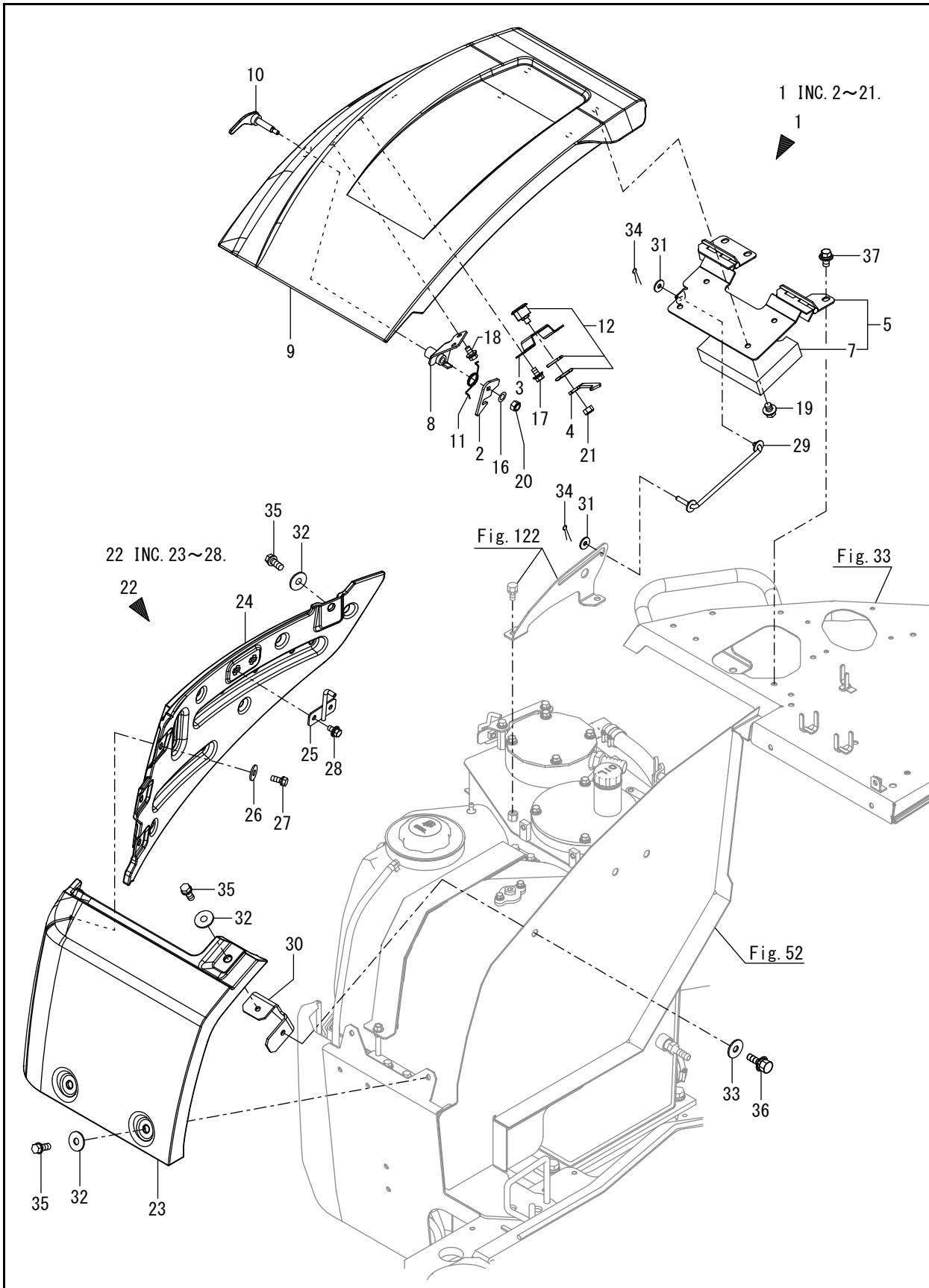


Z80 - COMPACT EXCAVATOR
FIG. 68 - CABIN MOUNT (ANTI-VIBRATION MOUNT)

Ref. No.	Part No.	Description	Ref. No.
1	50281690	MOUNT ASSY,60HS	3
2	50281691	MOUNT ASSY,70HS	2
3	50282382	WASHER 16,POLISHED	6
4	50282383	WASHER, 20	1
5	50282396	SPRING WASHER 16	6
6	50282518	BOLT M10X 35	10
7	50282552	BOLT 10.9 16X40	6
8	50282601	NUT M20	9
9	50282622	WASHER 21X40X6	4

Z80 - COMPACT EXCAVATOR

FIG. 69 - BONNET (BODY)



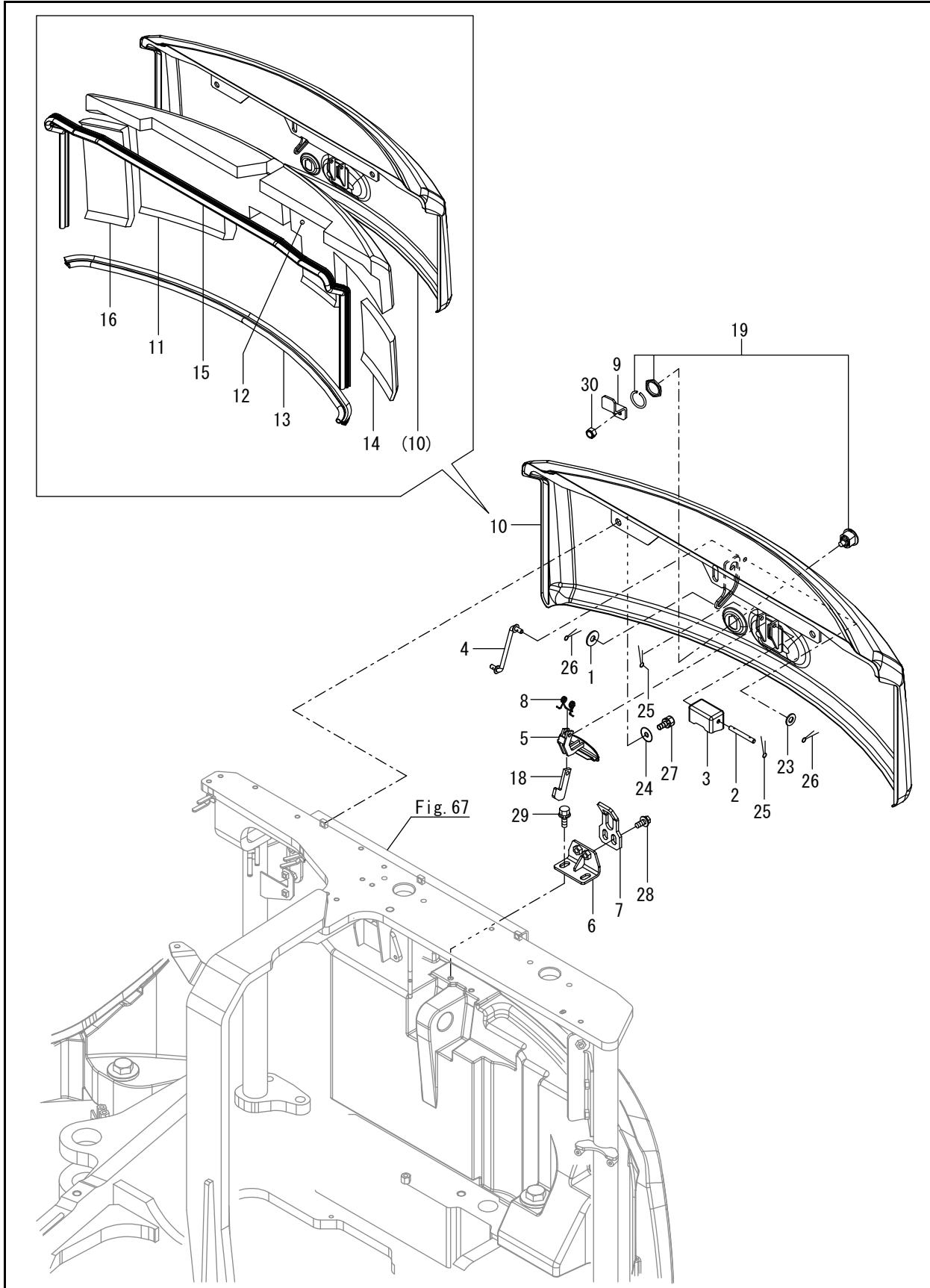
Z80 - COMPACT EXCAVATOR
FIG. 69 - BONNET (BODY)

Ref. No.	Part No.	Description	Ref. No.
1	50288848	COVER ASSY	1
2	50281464	ROCK PLATE	1
3	50287680	LOCK/PLATE	1
4	50288507	TAB	1
5	50288508	HINGE PLATE ASSY	1
7	50288510	PAD	1
8	50281678	HOOK ASSY	1
9	50281681	BONNET UPPER, BLACK	1
10	50281686	LEVER ASSY	1
11	50280847	TORSION SPRING	1
12	50287772	LOCK W/O KEY *	1
16	50282380	WASHER 8, POLISHED	1
17	50282533	BOLT M 8X 16	2
18	50282533	BOLT M 8X 16	2
19	50282537	BOLT M10X16	4
20	50282575	U-NUT M 8	1
21	50282576	U-NUT M10	1
22	50281682	BONNET LOWER ASSY,BLK	1
23	50281683	BONNET FRONT, BLACK	1
24	50281684	BONNET REAR, BLACK	1
25	50281685	ROD ASSY,CATCH	1
26	186593	WASHER 8	3
27	50282507	BOLT W/WASHER M8X20	3
28	50282533	BOLT M 8X 16	2
29	50281687	ROD ASSY,STOPPER	1
30	50281703	STAY ASSY,BON B	1
31	186593	WASHER 8	2
32	50282387	WASHER 10	4
33	50282387	WASHER 10	1
34	50282418	COTTER PIN 2.0X20	2
35	50282516	BOLT W/WASHER M10X25	4
36	50282516	BOLT W/WASHER M10X25	1
37	50282538	BOLT M10X 20	3

NOTE: * Key part number 50288194 (2 keys)

Z80 - COMPACT EXCAVATOR

FIG. 70 - BONNET (REAR)



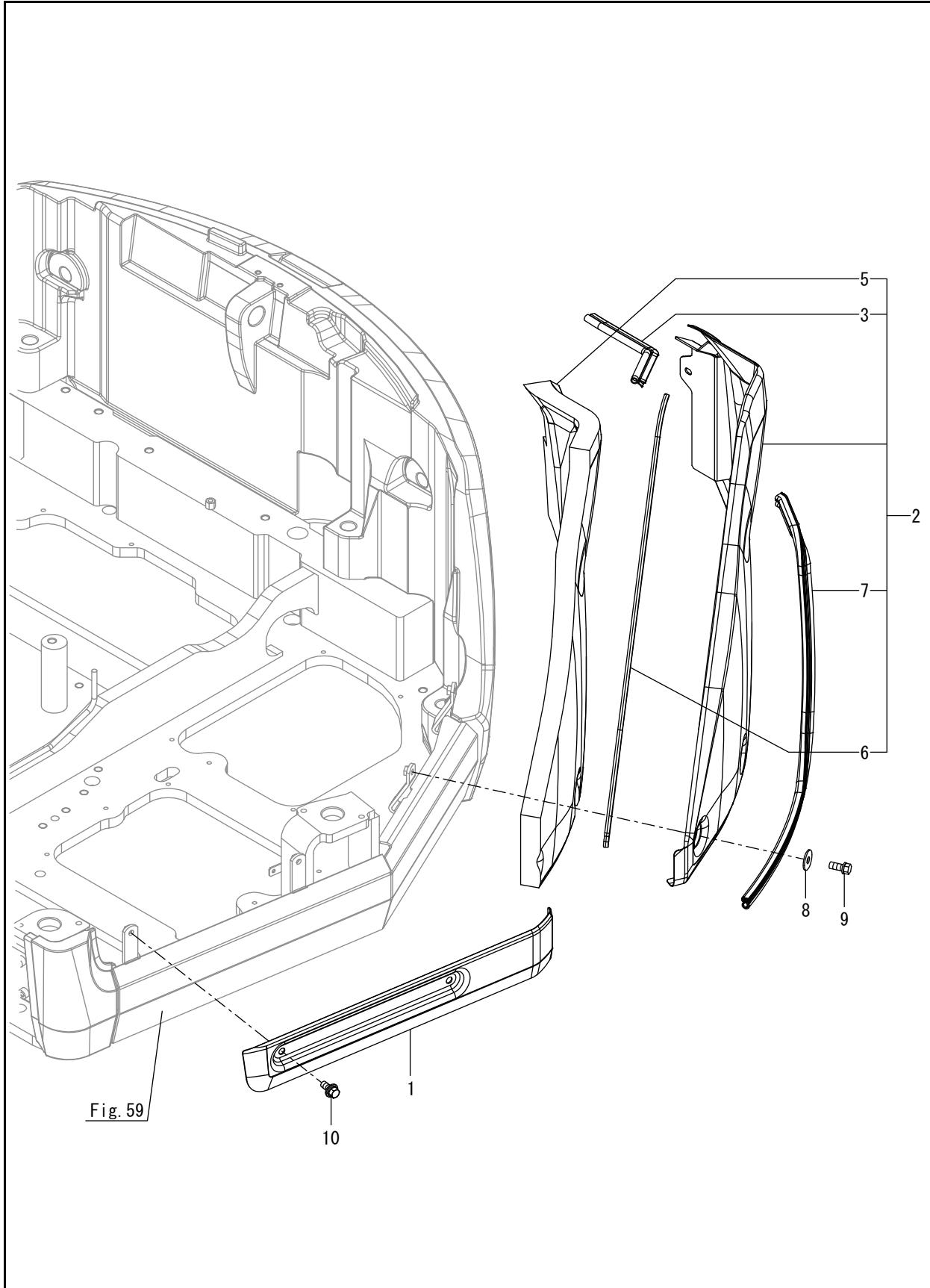
Z80 - COMPACT EXCAVATOR
FIG. 70 - BONNET (REAR)

Ref. No.	Part No.	Description	Ref. No.
1	50282361	WASHER	1
2	50281141	SHAFT	1
3	50281142	COVER,BONNET LOCK	1
4	50281051	ROD,STOPPER	1
5	50280949	LEVER ASSY, LOCK	1
6	50288543	LOCK BRACKET	1
7	50280950	PLATE, CATCH	1
8	50281351	SPRING, CATCH	1
9	50288544	CATCH PLATE	1
10	50288545	COVER ASSY (replacement also requires labels 17A, 17B, 17C, 17D)	1
11	50288539	PAD	1
12	50288540	PAD	1
13	50281701	RUBBER, SEAL 1070	1
14	50288541	PAD	1
15	50281702	RUBBER, SEAL 1760	1
16	50288542	PAD	1
17A	50281026	LABEL,SWING AREA US *	1
17B	50287429	LABEL/SILENCER EX *	1
17C	50281028	LABEL, ENG,COVER US *	1
17D	50281425	LABEL, ENG ROOM *	1
18	50280794	CATCHER	1
19	50287772	LOCK W/O KEY **	1
23	50282380	WASHER 8, POLISHED	1
24	50282387	WASHER 10	3
25	50282418	COTTER PIN 2.0X20	2
26	50282418	COTTER PIN 2.0X20	2
27	50282516	BOLT W/WASHER M10X25	3
28	50282539	BOLT 10X25 W/PLW+SPW	2
29	50282539	BOLT 10X25 W/PLW+SPW	2
30	50282576	U-NUT M10	1

NOTE: * Labels shown on Page 4

** Key part number 50288194 (2 keys)

Z80 - COMPACT EXCAVATOR
FIG. 72 - BONNET (SIDE:LEFT)

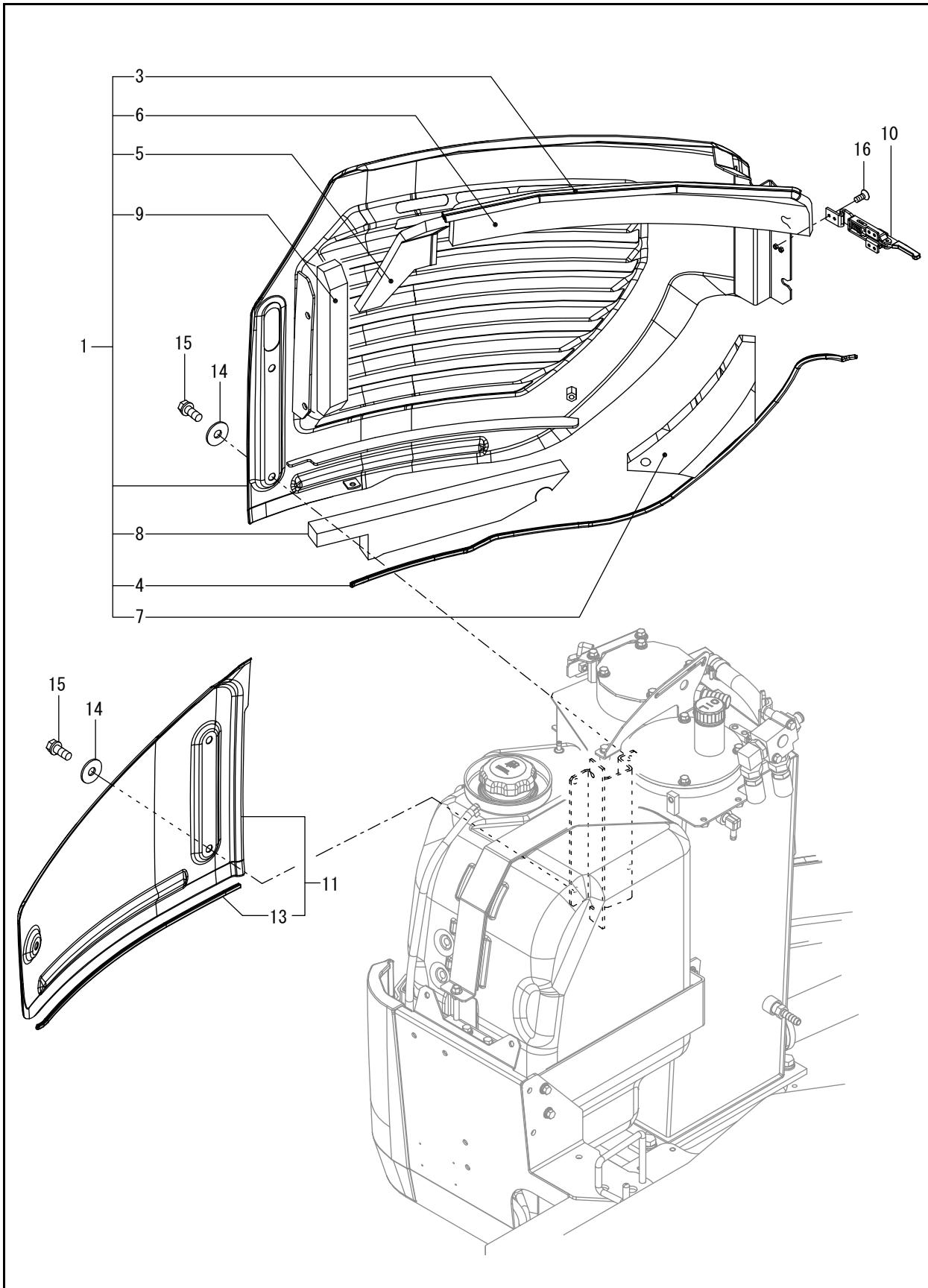


Z80 - COMPACT EXCAVATOR
FIG. 72 - BONNET (SIDE:LEFT)

Ref. No.	Part No.	Description	Ref. No.
1	50288483	FRAME COVER	1
2	50286391	COVER ASSY LT	1
3	50280855	SEAL	1
5	50282227	EV,BONNET L	1
6	50281704	TRIM,1260	1
7	50280904	RUBBER,SEAL D	1
8	50282387	WASHER 10	3
9	50282516	BOLT W/WASHER M10X25	3
10	50282539	BOLT 10X25 W/PLW+SPW	2

Z80 - COMPACT EXCAVATOR

FIG. 74 - BONNET (SIDE:RIGHT)



Z80 - COMPACT EXCAVATOR
FIG. 74 - BONNET (SIDE:RIGHT)

Ref. No.	Part No.	Description	Ref. No.
1	50288549	COVER ASSY	1
3	50282230	RUBBER,SEAL 670	1
4	50282231	TRIM,1160	1
5	50288551	PAD	1
6	50288552	PAD	1
7	50288553	PAD	1
8	50288554	PAD	1
9	50288555	PAD	1
10	50281707	LOCK GRIP, BONNET	1
11	50286329	COVER ASSY	1
13	50281709	TRIM,600	1
14	50282387	WASHER 10	5
15	50282516	BOLT W/WASHER M10X25	5
16	50282591	SCREW M 5X 12	6

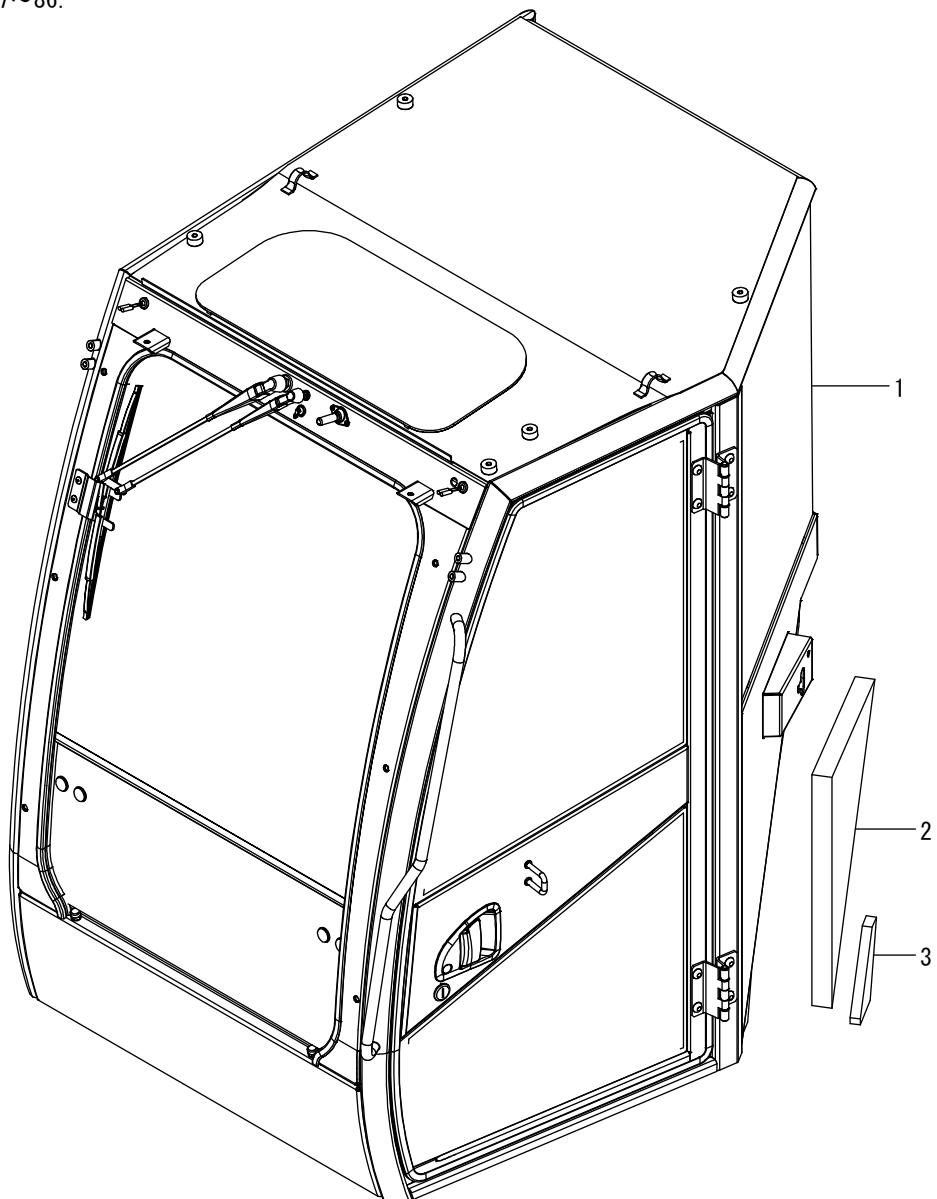
Z80 - COMPACT EXCAVATOR

FIG. 76 - CABIN (BODY)

CABIN ASSY

Fig. 76 Ref. No. 1

INC. Fig. 77~86.



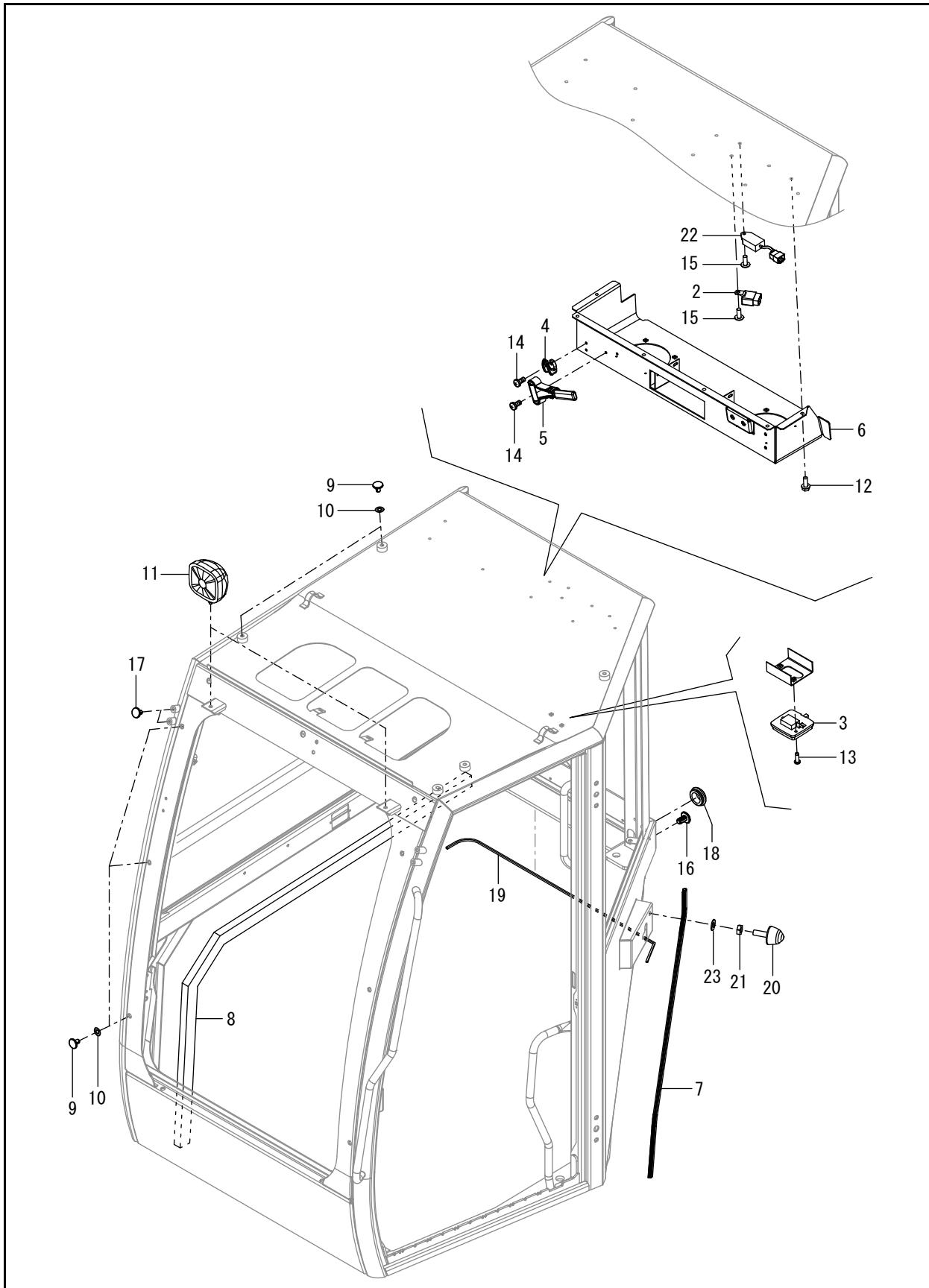
Z80 - COMPACT EXCAVATOR**FIG. 76 - CABIN (BODY)**

Ref. No.	Part No.	Description	Ref. No.
1	50288849	CABIN ASSY (replacement also requires labels 1A, 1B, 1C, 1D)	1
1A	50281019	LABEL, MANUAL US *	1
1B	50281031	LABEL, ROPS US *	1
1C	50281032	LABEL, SEAT BELT US *	1
1D	50281033	LABEL, LEVER LOCK US *	1
2	50288589	PAD	1
3	50288590	PAD	1

NOTE: * Labels shown on Page 8

Z80 - COMPACT EXCAVATOR

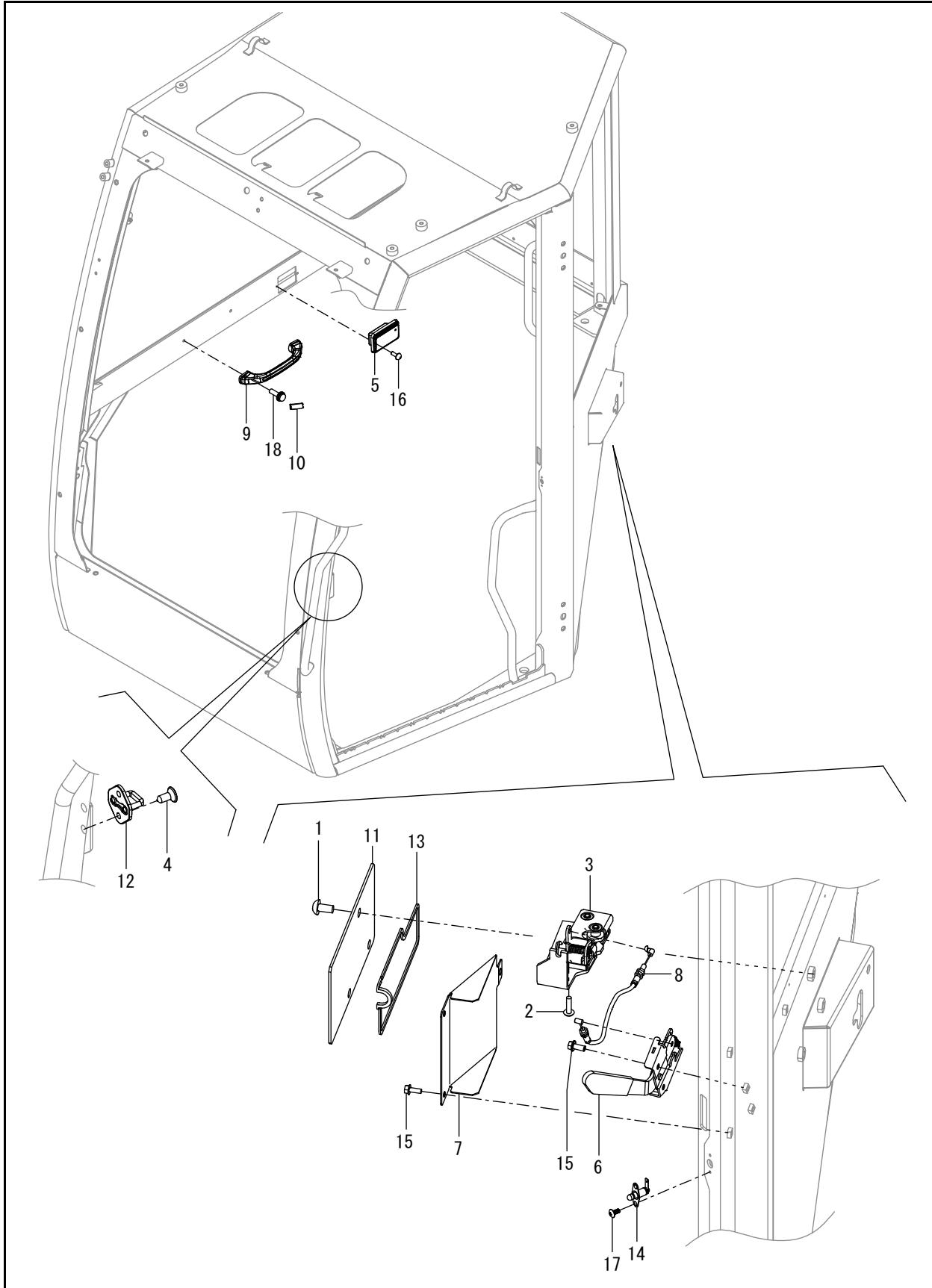
FIG. 77 - CABIN (ACCESSORY 1)



Z80 - COMPACT EXCAVATOR
FIG. 77 - CABIN (ACCESSORY 1)

Ref. No.	Part No.	Description	Ref. No.
2	193206	RELAY/20AMP/YANMAR	1
3	50288336	DOME LIGHT	1
4	50288338	COAT HOK	1
5	50288339	HAMMER	1
6	50288880	HEADER COVER	1
7	50288562	SEAL	1
8	50288563	SEAL	1
9	50288565	PLUG	11
10	50288566	RUBBER SEAL	11
11	50288345	WORK LAMP	2
12	50288346	BOLT M6X16	6
13	50288347	BOLT M5X16	2
14	50288348	BOLT M4X12	4
15	50288583	SCREW M6X16	2
16	50288597	BOLT M8	2
17	50288598	BOLT M10	4
18	50288599	GROMMET	1
19	50288601	SEAL	1
20	50288245	DOOR STOPPER	1
21	50288241	NUT	1
22	160891	RELAY 10 A	1
23	50282393	SPRING WASHER 10	1

Z80 - COMPACT EXCAVATOR
FIG. 78 - CABIN (ACCESSORY 2)

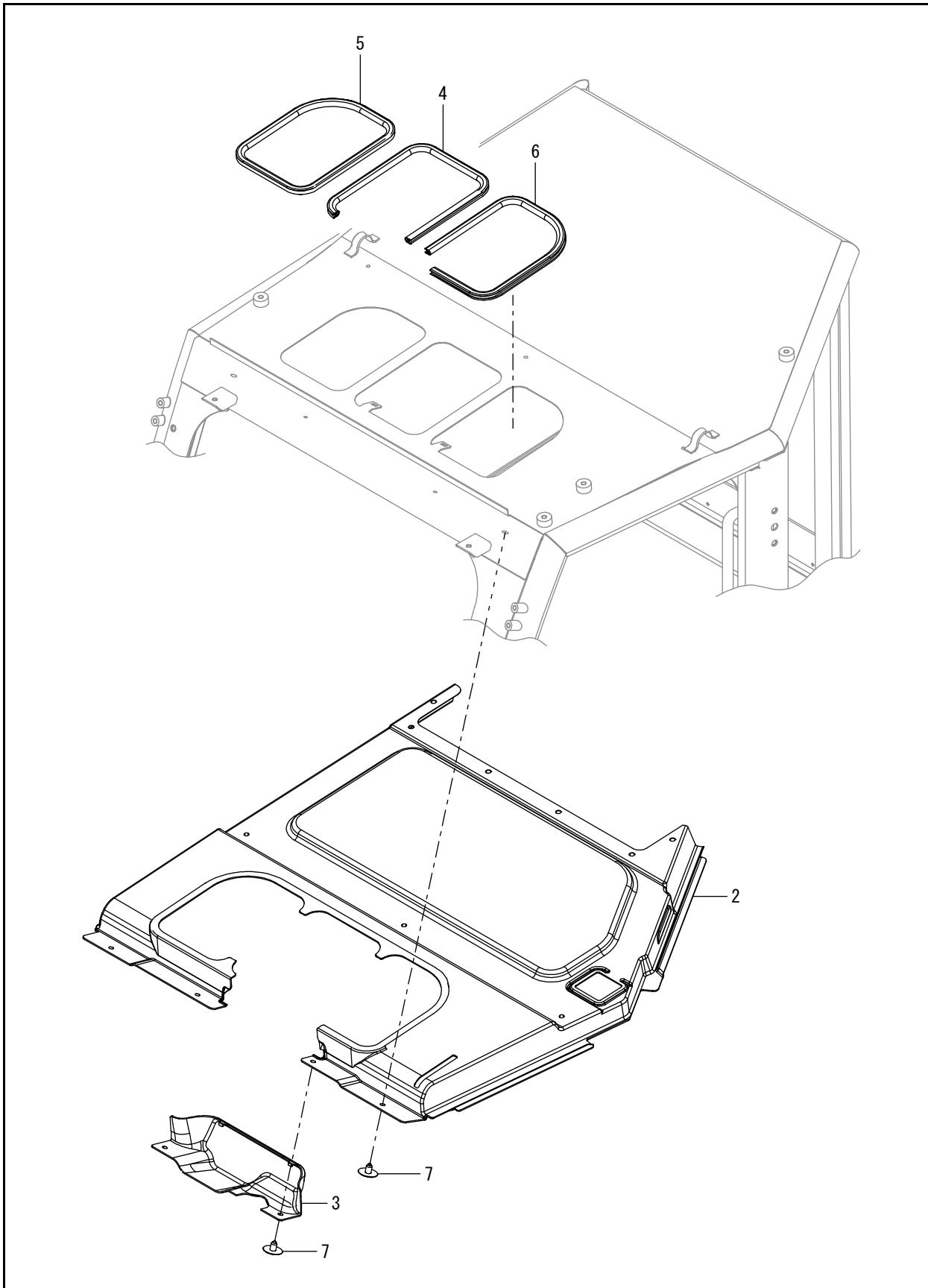


Z80 - COMPACT EXCAVATOR
FIG. 78 - CABIN (ACCESSORY 2)

Ref. No.	Part No.	Description	Ref. No.
1	50282976	SCREW TORX	3
2	50282928	SCREW(TORX)	4
3	50288337	LATCH ASSY	1
4	50288340	TORX SCREW M8X20	2
5	50288341	ASHTRAY	1
6	50288558	LEVER ASSY	1
7	50288881	DOOR LEVER COVER	1
8	50288559	BOWDEN CABLE	1
9	50288560	HANDLE	1
10	50288561	CAP	2
11	50288882	COVER	1
12	50288342	DOOR STRIKER	1
13	50288564	SEAL	1
14	50288344	MICROSWITCH	1
15	50288346	BOLT M6X16	5
16	50288348	BOLT M4X12	2
17	50288350	SELF TAPPING SCREW M4X12	2
18	50288584	SCREW M6X20	2

Z80 - COMPACT EXCAVATOR

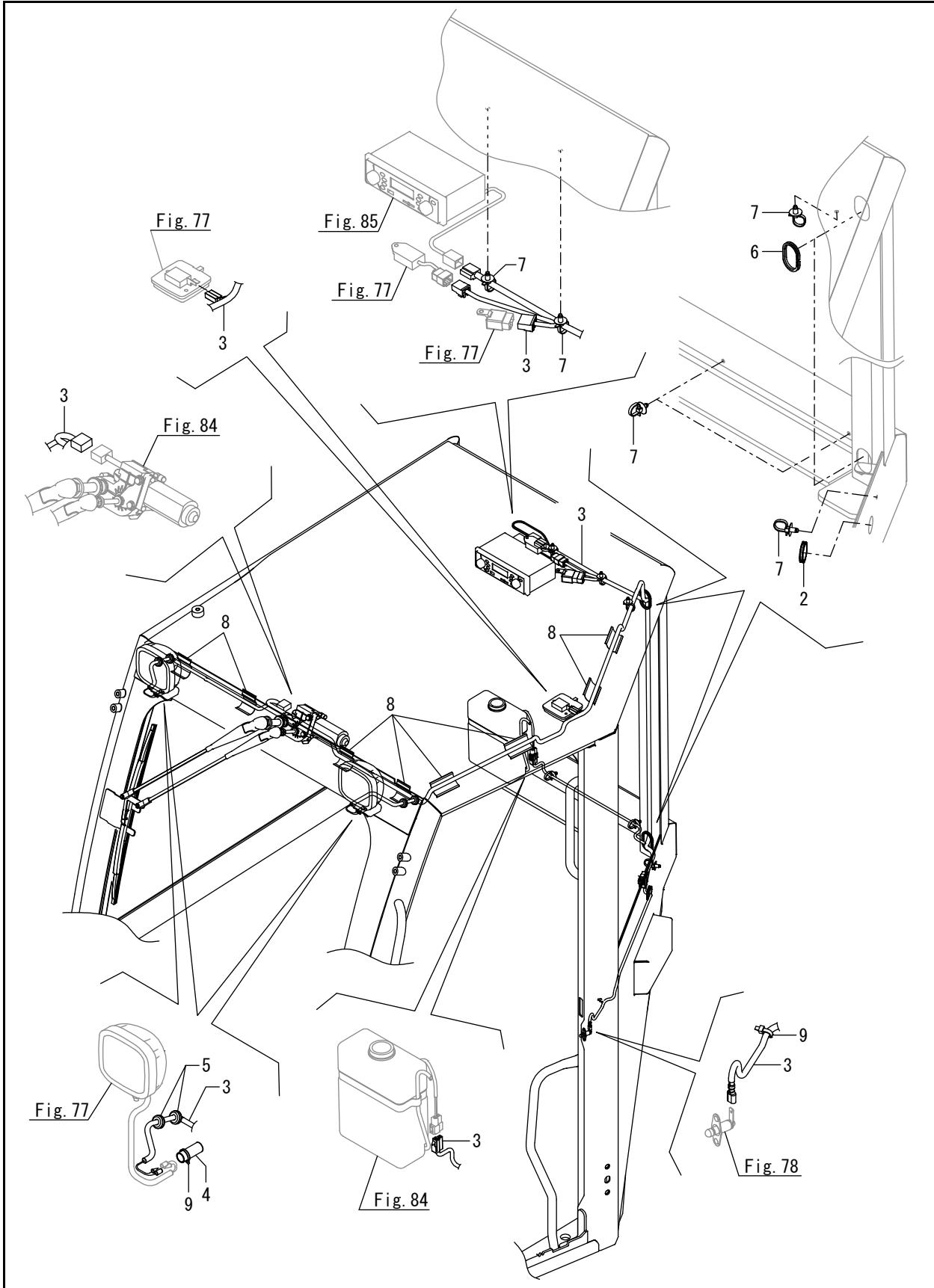
FIG. 79 - CABIN (ACCESSORY 3)



Z80 - COMPACT EXCAVATOR
FIG. 79 - CABIN (ACCESSORY 3)

Ref. No.	Part No.	Description	Ref. No.
2	50288567	ROOF TRIM	1
3	50288568	ROOF TRIM	1
4	50288569	SEAL	1
5	50288570	SEAL	1
6	50288571	SEAL	1
7	50288572	RIVET	7

Z80 - COMPACT EXCAVATOR
FIG. 80 - CABIN (ELECTRIC PART)

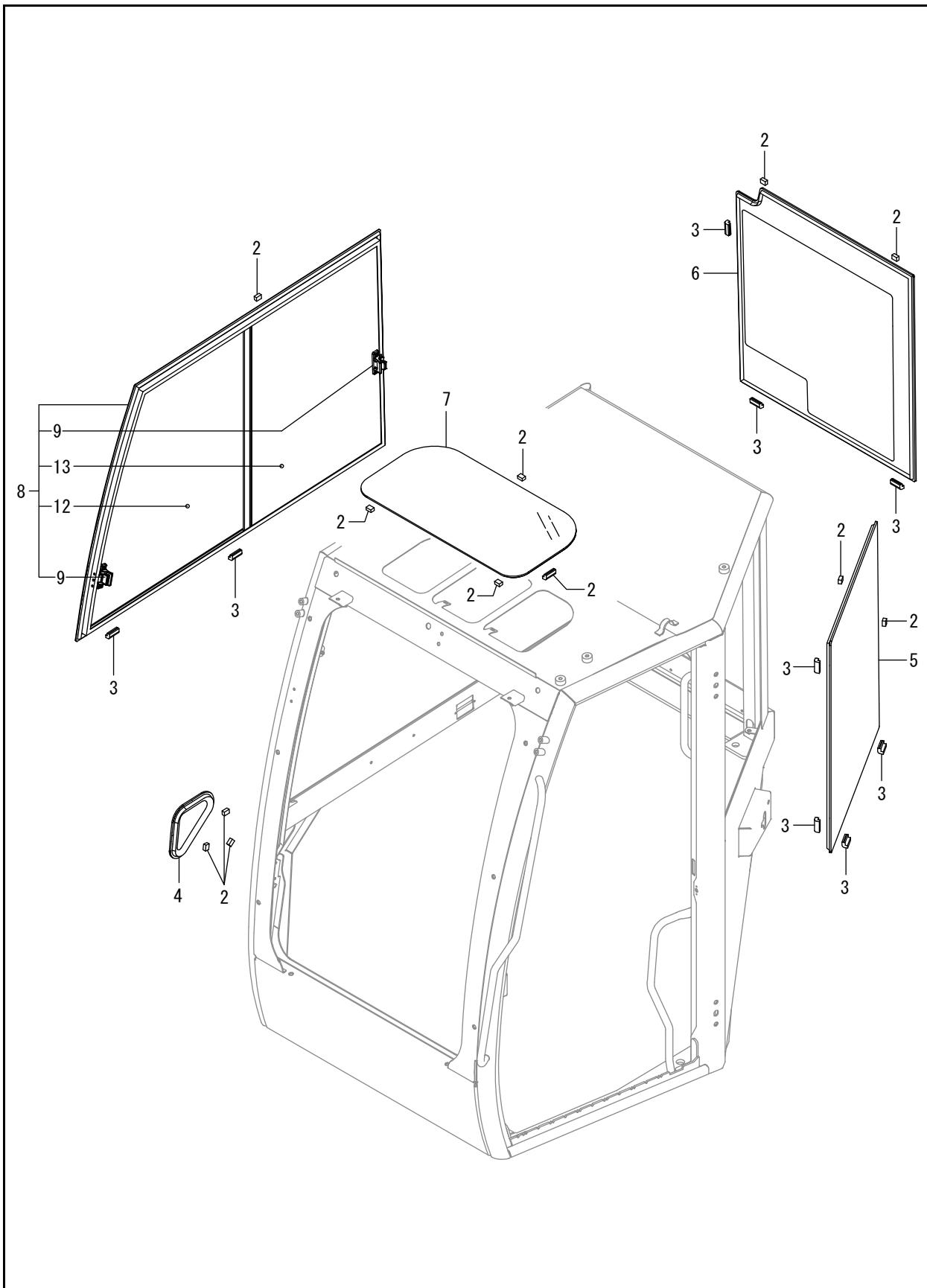


Z80 - COMPACT EXCAVATOR
FIG. 80 - CABIN (ELECTRIC PART)

Ref. No.	Part No.	Description	Ref. No.
2	50288879	BUSHING	1
3	50288580	CAB WIRE HARNESS	1
4	50288581	PVC TUBE	2
5	50288352	GROMMET	4
6	50288353	BUSHING	2
7	50288354	TIE BAND	6
8	50288355	TAPE	6
9	50284153	BAND 146	3

Z80 - COMPACT EXCAVATOR

FIG. 81 - CABIN (GLASS)



Z80 - COMPACT EXCAVATOR
FIG. 81 - CABIN (GLASS)

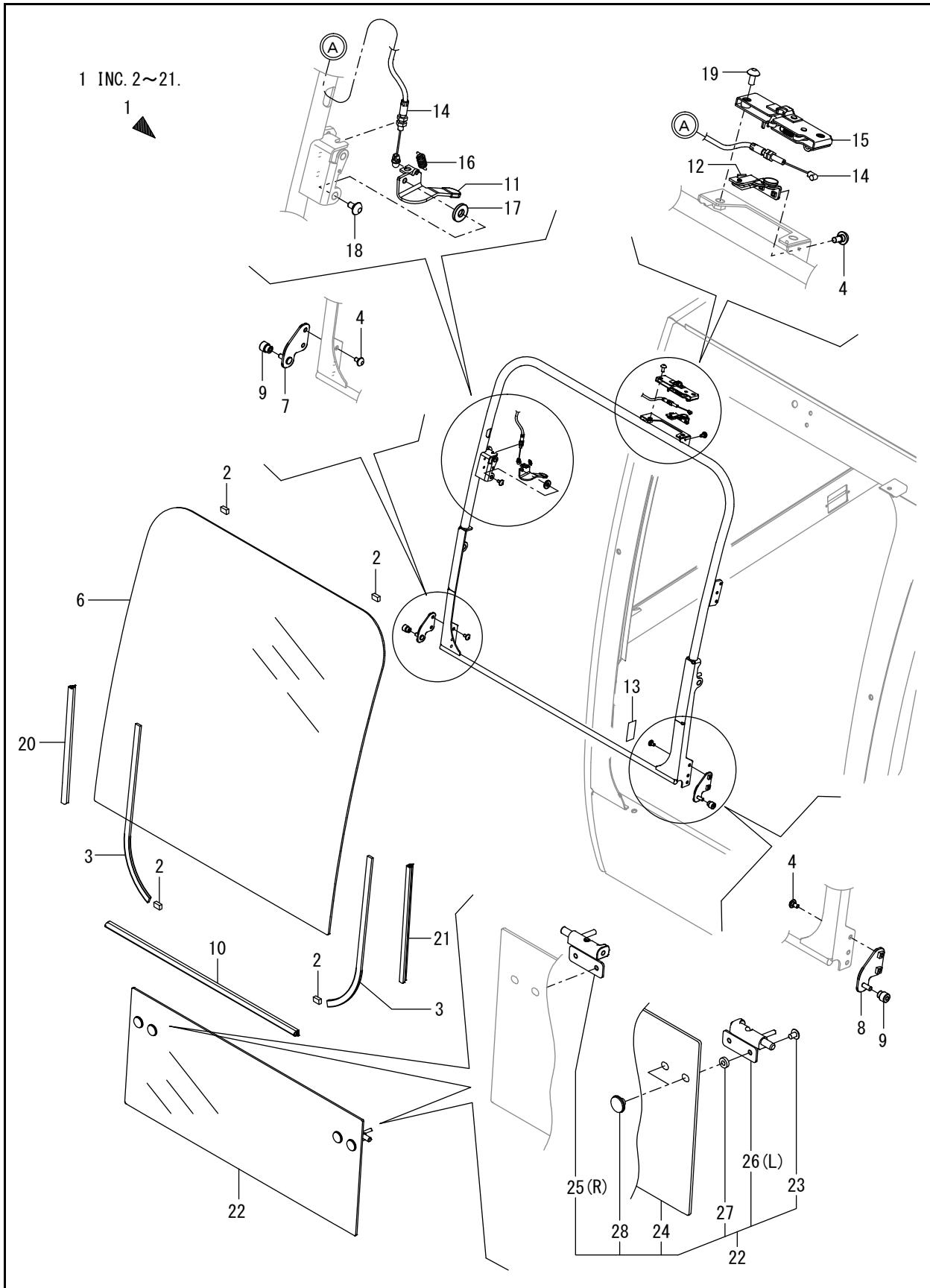
Ref. No.	Part No.	Description	Ref. No.
2	50282982	SPACER	12
3	50282983	SPACER	11
4	50288573	RIGHT FRONT WINDOW	1
5	50288574	LEFT WINDOW	1
6	50288575	REAR WINDOW (replacement also requires label 14A)	1
7	50288576	SUNROOF WINDOW	1
8	50288577	RIGHT WINDOW ASSY	1
9	50282934	LOCK ASSY, SASH	2
12	50288578	FRONT RIGHT WINDOW	1
13	50288579	RIGHT WINDOW, BACK (replacement also requires labels 15A, 15B, 15C, 15D, 15E, 15F, 15G)	1
14A	50282089	LABEL, LIFT Q *	1
15A	50281020	LABEL,SLOPE US *	1
15B	50281022	LABEL, TRANSPORT US *	1
15C	50281025	LABEL, NEUTRAL US *	1
15D	50281030	LABEL, STEERING US *	1
15E	50281174	LABEL, PIN US **	1
15F	50287435	LABEL/WARNING HITCH **	1
15G	50287436	LABEL/SAND US **	1

NOTE: * Labels shown on Page 8

**Labels shown on Page 10

Z80 - COMPACT EXCAVATOR

FIG. 82 - CABIN (FRONT WINDOW)



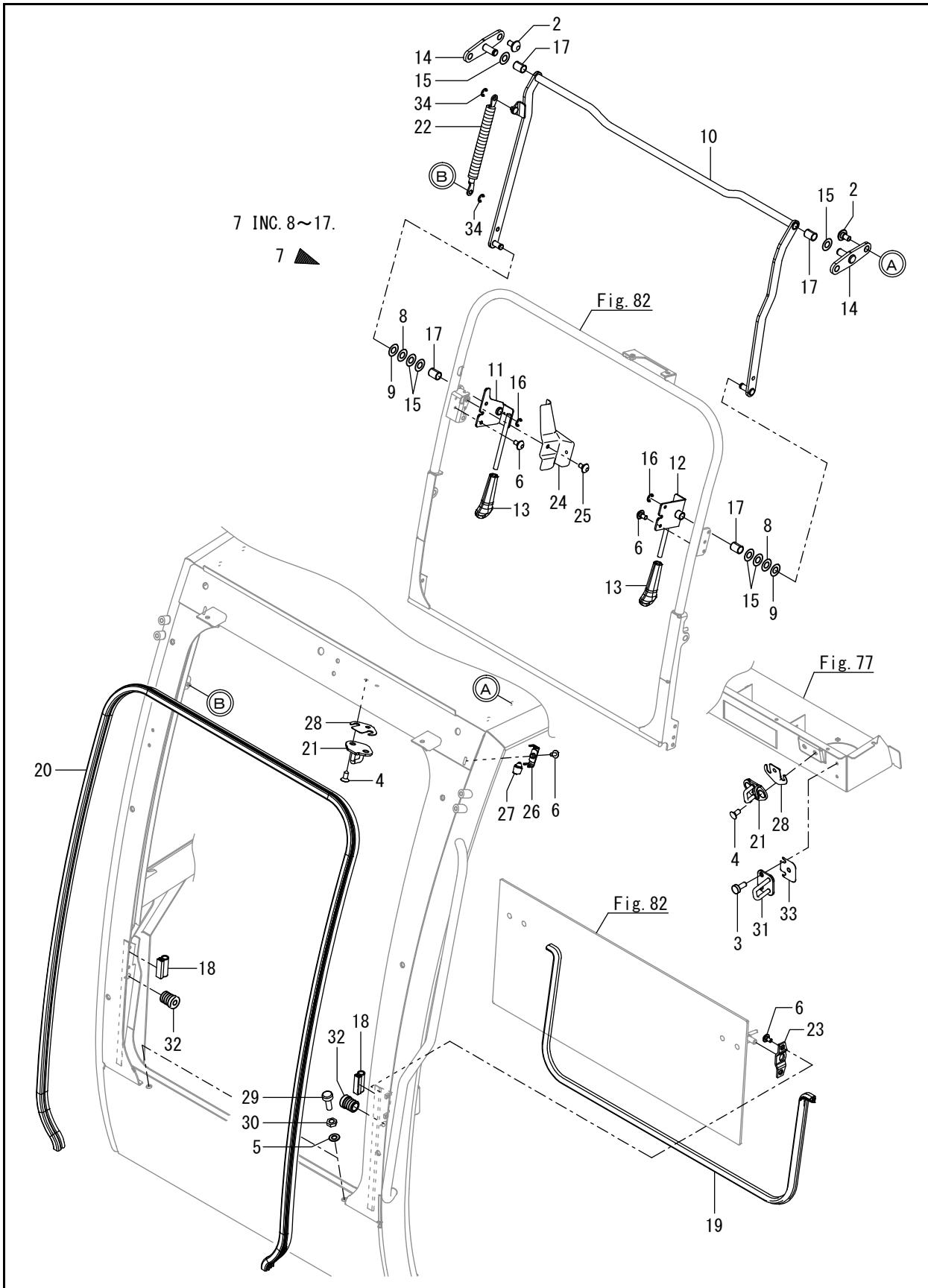
Z80 - COMPACT EXCAVATOR
FIG. 82 - CABIN (FRONT WINDOW)

Ref. No.	Part No.	Description	Ref. No.
1	50288603	FRONT WINDOW COMPLETE	1
2	50282982	SPACER	4
3	50288602	SEAL	2
4	50283218	SCREW-TORX	6
6	50288604	FRONT WINDOW GLASS (replacement also requires label 29A)	1
7	50288605	BRACKET	1
8	50288606	BRACKET	1
9	50288361	ROLLER	2
10	50288610	SEAL	1
11	50288611	WINDOW LOCK LEVER	1
12	50288612	WINDOW LOCK ASSY	1
13	50288613	RUBBER PAD	1
14	50288618	BOWDEN CABLE	1
15	50288619	WINDOW LATCH ASSY	1
16	50288363	SPRING	1
17	50288365	WASHER	1
18	50288366	TORX BOLT M6X16	1
19	50288367	TORX BOLT M6X20	2
20	50288638	CHANNEL	1
21	50288639	CHANNEL	1
22	50288620	LOWER FRONT WINDOW ASSY	1
23	50288585	SCREW M8X12	4
24	50288621	LOWER FRONT WINDOW	1
25	50288622	LATCH ASSY RIGHT	1
26	50288623	LATCH ASSY LEFT	1
27	50288624	RUBBER ISOLATOR	4
28	50288625	RETAINER M8	4
29A	50281036	LABEL, WINDOW US *	1

NOTE: Label shown on Page 8

Z80 - COMPACT EXCAVATOR

FIG. 83 - CABIN (FRONT WINDOW ACCESSORY)

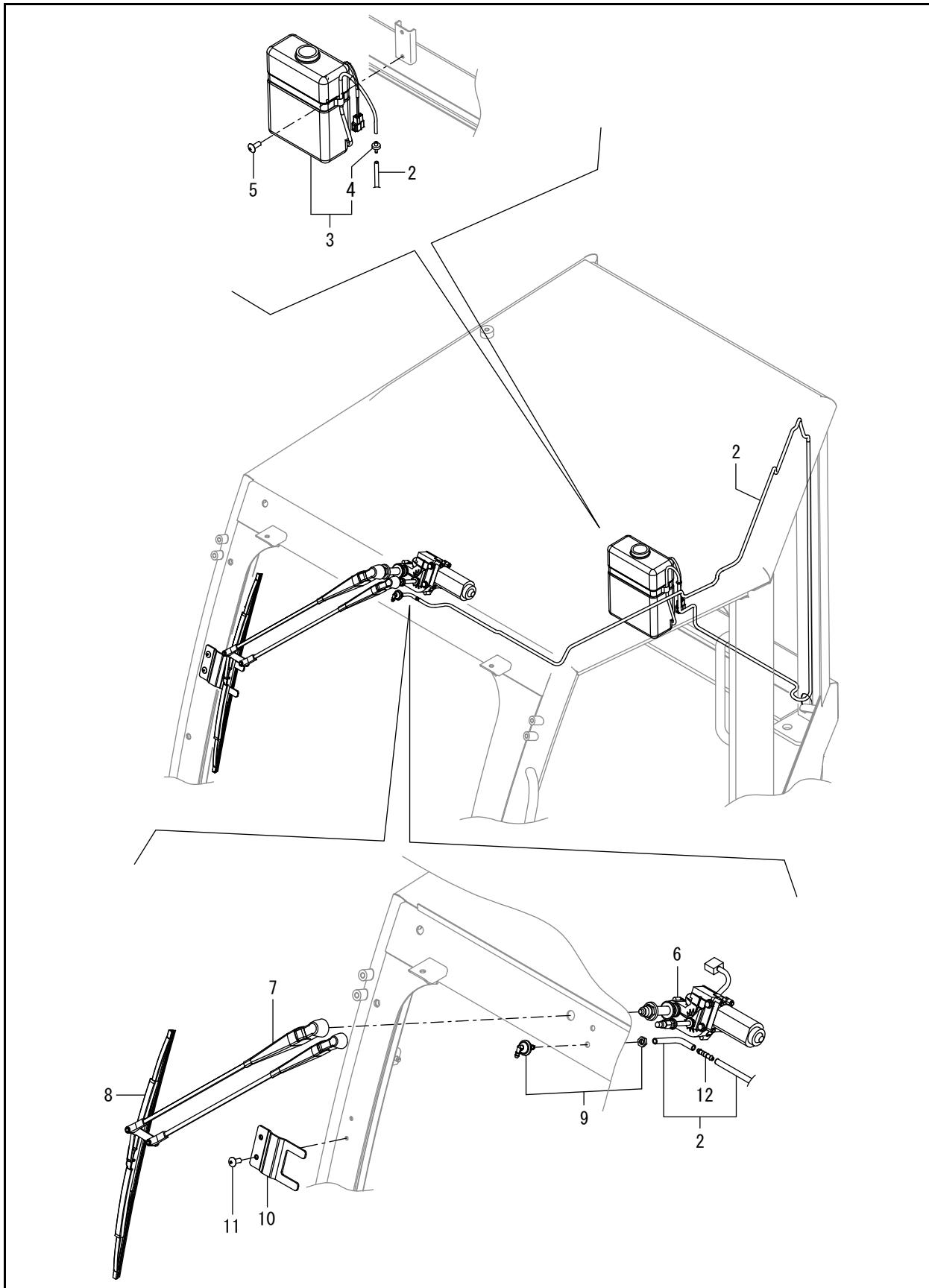


Z80 - COMPACT EXCAVATOR
FIG. 83 - CABIN (FRONT WINDOW ACCESSORY)

Ref. No.	Part No.	Description	Ref. No.
2	50282976	SCREW TORX	4
3	50288346	BOLT M6X16	2
4	50288586	SCREW M8X20	4
5	50288587	WASHER M10	2
6	50283218	SCREW-TORX	12
7	50288614	WINDOW LINK COMPLETE	1
8	50288588	WASHER M12	2
9	50288244	WASHER 12.5X26	2
10	50288615	WINDOW LINK	1
11	50288616	LOCK LEVER RIGHT	1
12	50288617	LOCK LEVER LEFT	1
13	50288364	KNOB	2
14	50288628	LINK BRACKET	2
15	50288368	WASHER	6
16	50284051	CIRCLIP E- 8	2
17	50284092	BUSHING 12X20	4
18	50288627	SEAL	2
19	50288629	SEAL	1
20	50288630	FRONT WINDOW SEAL	1
21	50288631	STRIKER	2
22	50288632	SPRING	1
23	50288633	LATCH	2
24	50288634	LATCH COVER	1
25	50288369	TREE CLIP	2
26	50288635	BRACKET	2
27	50288636	RUBBER STOPPER	2
28	50288637	SHIM	2
29	50288240	SCREW	2
30	50288241	NUT	2
31	50288640	STRIKER	1
32	50288641	RUBBER STOPPER	2
33	50288642	SHIM	1
34	425-34970	*CIRCLIP E-6	2

Z80 - COMPACT EXCAVATOR

FIG. 84 - CABIN (WIPER)

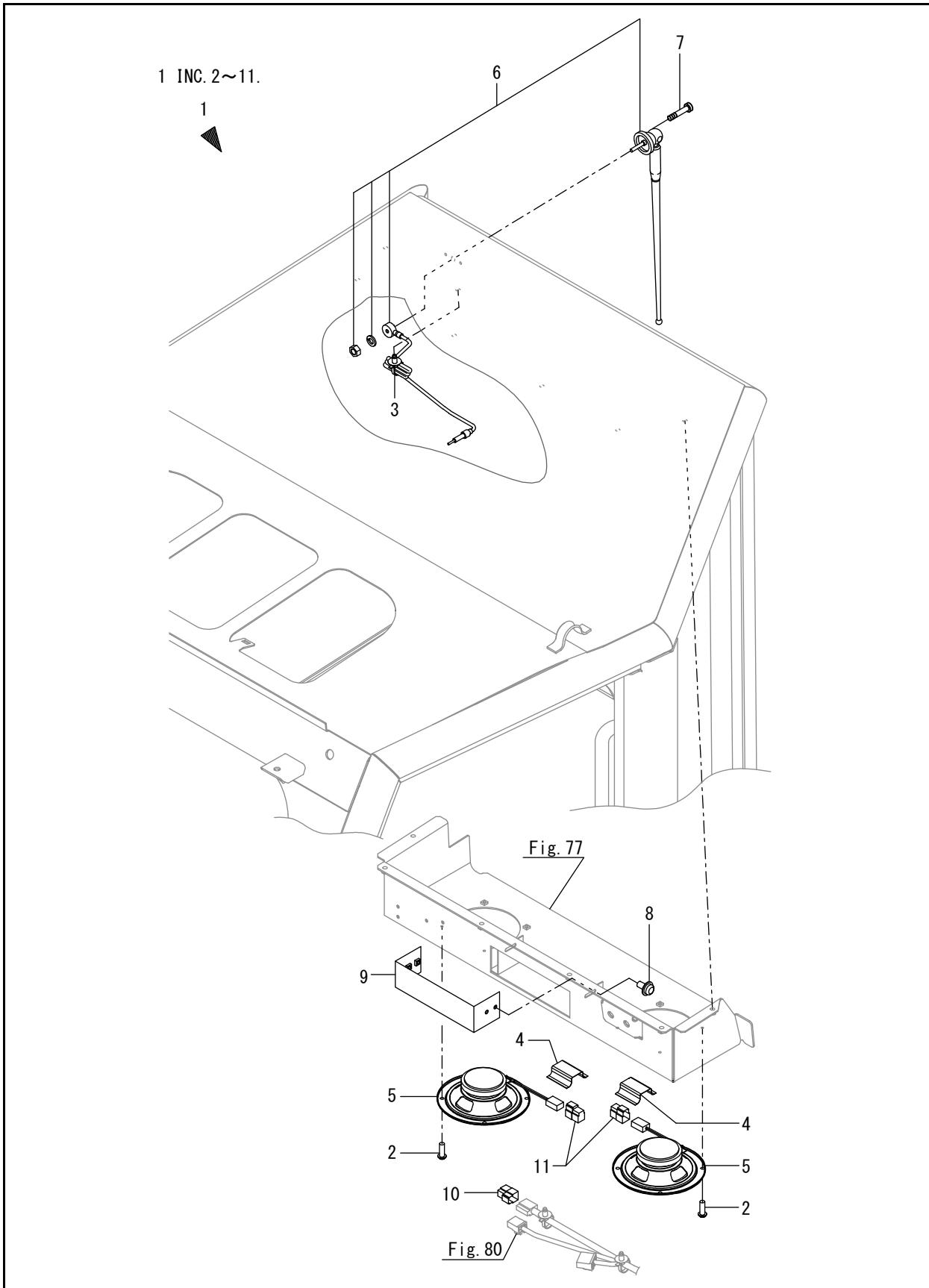


Z80 - COMPACT EXCAVATOR
FIG. 84 - CABIN (WIPER)

Ref. No.	Part No.	Description	Ref. No.
2	50288557	HOSE	1
3	50288343	WASHER RESERVOIR	1
4	50288351	CHECK VALVE	1
5	50288583	SCREW M6X16	2
6	50288607	WIPER MOTOR	1
7	50288608	WIPER ARM	1
8	50288362	WIPER BLADE	1
9	50288609	90° ELBOW	1
10	50288883	WIPER BRACKET	1
11	50288626	SCREW	2
12	50288646	CONNECTOR VALVE	1

Z80 - COMPACT EXCAVATOR

FIG. 85 - CABIN (RADIO)

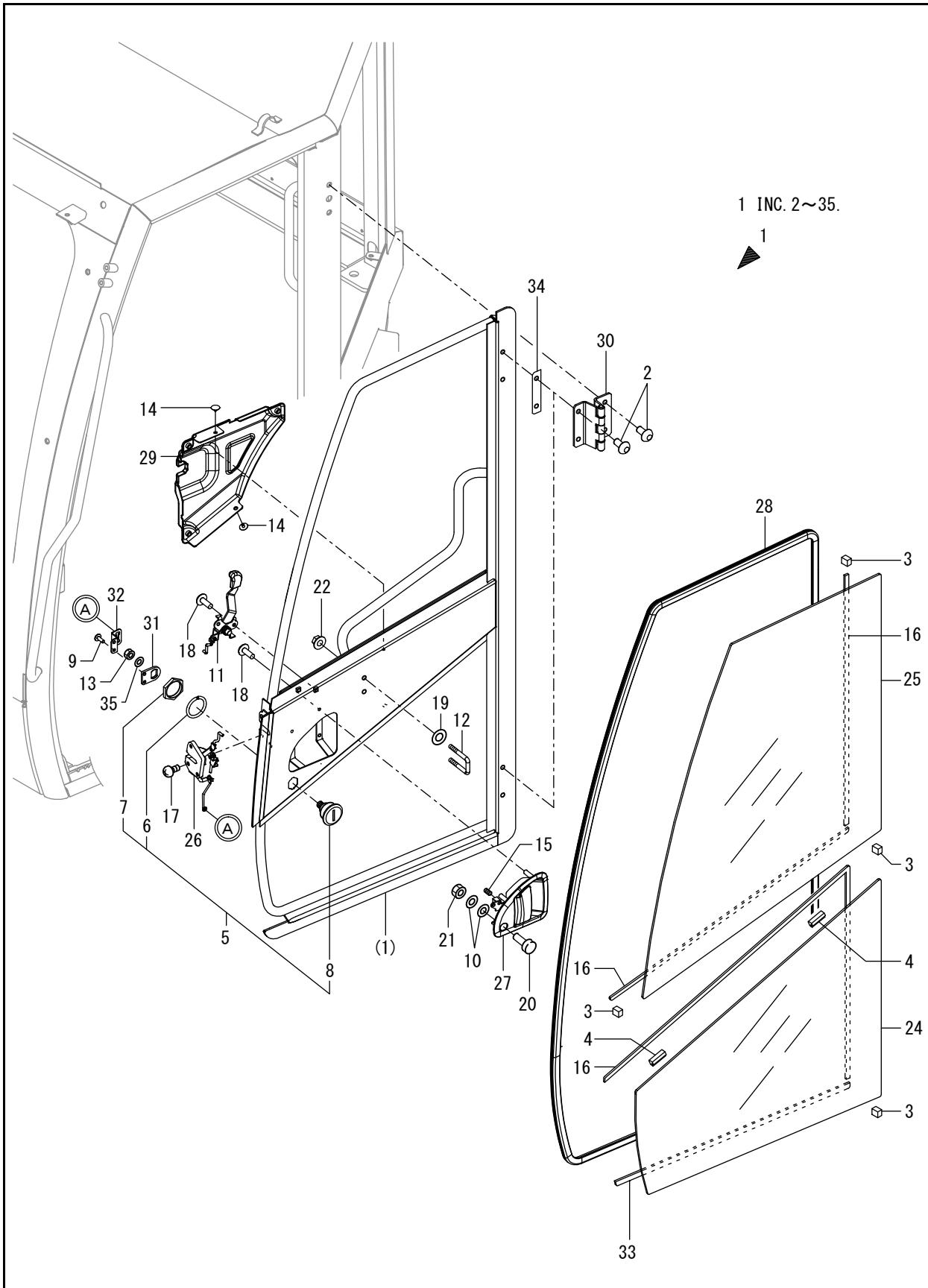


Z80 - COMPACT EXCAVATOR**FIG. 85 - CABIN (RADIO)**

Ref. No.	Part No.	Description	Ref. No.
1	50288850	INSTALL KIT W/O RADIO	1
2	50288349	BOLT M4X12	8
3	50288354	TIE BAND	1
4	50288355	TAPE	3
5	50288370	SPEAKER	2
6	50288371	ANTENNA	1
7	50288372	BOLT M4X20	2
8	50288643	SCREW M4X12	4
9	50288851 50840408	RADIO COVER (shown) RADIO KIT (w/o antenna) (not shown)	1 1
10	50288644	CONNECTOR	1
11	50288645	CONNECTOR	2

Z80 - COMPACT EXCAVATOR

FIG. 86 - CABIN (DOOR)



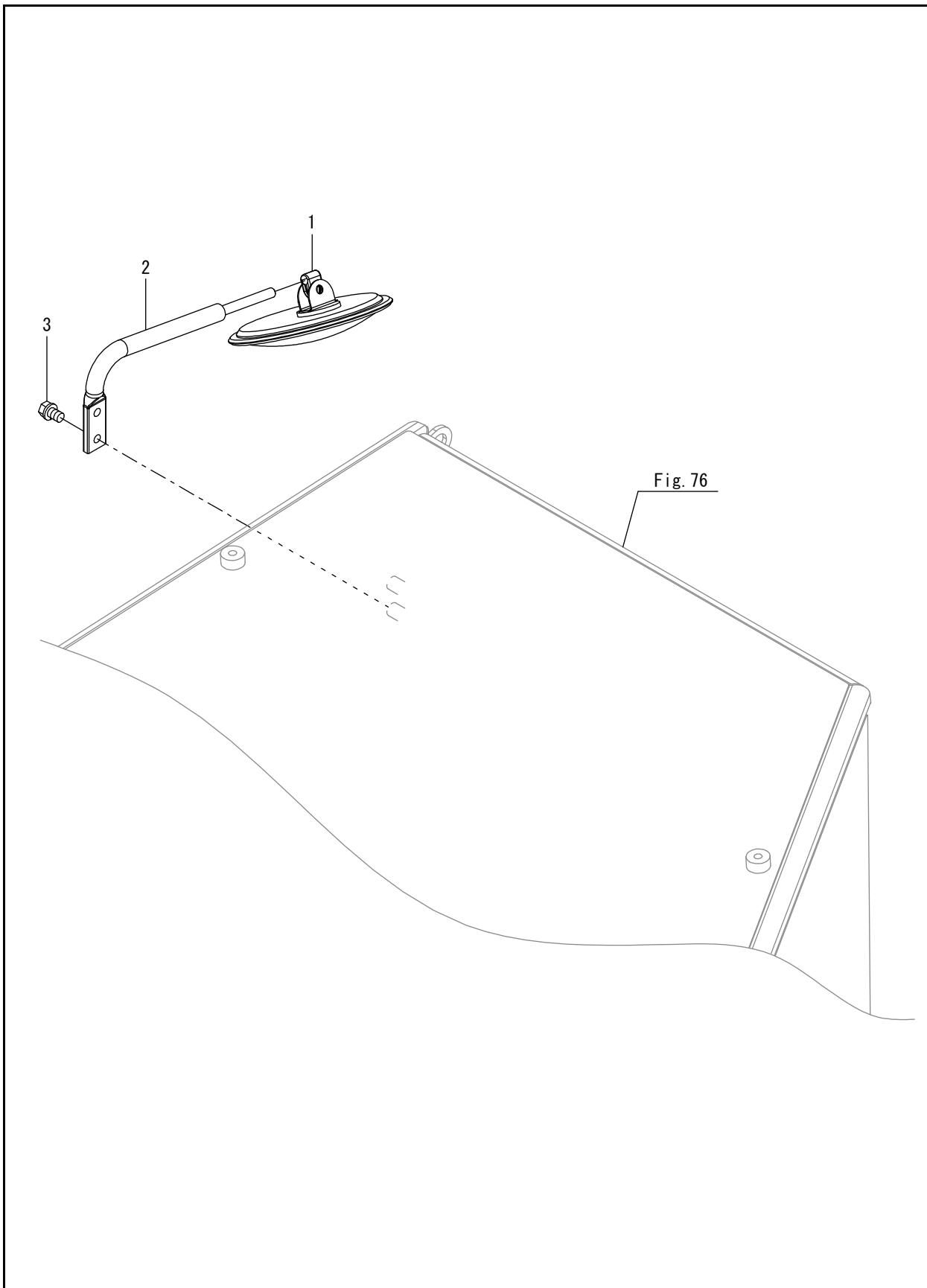
Z80 - COMPACT EXCAVATOR**FIG. 86 - CABIN (DOOR)**

Ref. No.	Part No.	Description	Ref. No.
1	50288852	DOOR ASSY	1
2	50282976	SCREW TORX	8
3	50282982	SPACER	4
4	50282983	SPACER	2
5	50287772	LOCK W/O KEY *	1
6	50288323	RING WASHER	1
7	50288324	NUT M24	1
8	50288325	LOCK CYLINDER	1
9	50288582	SCREW M4X10	2
10	50288587	WASHER M10	2
11	50288356	HANDLE ASSY	1
12	50288357	DOOR HOOK	1
13	50288595	NUT M10	1
14	50288596	TREE CLIP	5
15	50288358	LOCKSCREW	1
16	50288600	SEAL	1
17	50288359	SCREW M6X20	3
18	50288360	SCREW	5
19	50288239	WASHER	2
20	50288240	SCREW	1
21	50288241	NUT	1
22	50288242	NUT	2
24	50288647	LOWER DOOR WINDOW	1
25	50288648	UPPER DOOR WINDOW	1
26	50288649	DOOR LATCH ASSY	1
27	50288650	HANDLE ASSY	1
28	50288651	DOOR SEAL	1
29	50288652	DOOR TRIM	1
30	50288853	DOOR HINGE	2
31	50288653	LOCK TAB	1
32	50288654	BRACKET	1
33	50288655	SEAL	1
34	50288884	SHIM	1
35	50282393	SPRING WASHER 10	1

NOTE: * Key part number 50288194 (2 keys)

Z80 - COMPACT EXCAVATOR

FIG. 87 - REARVIEW MIRROR

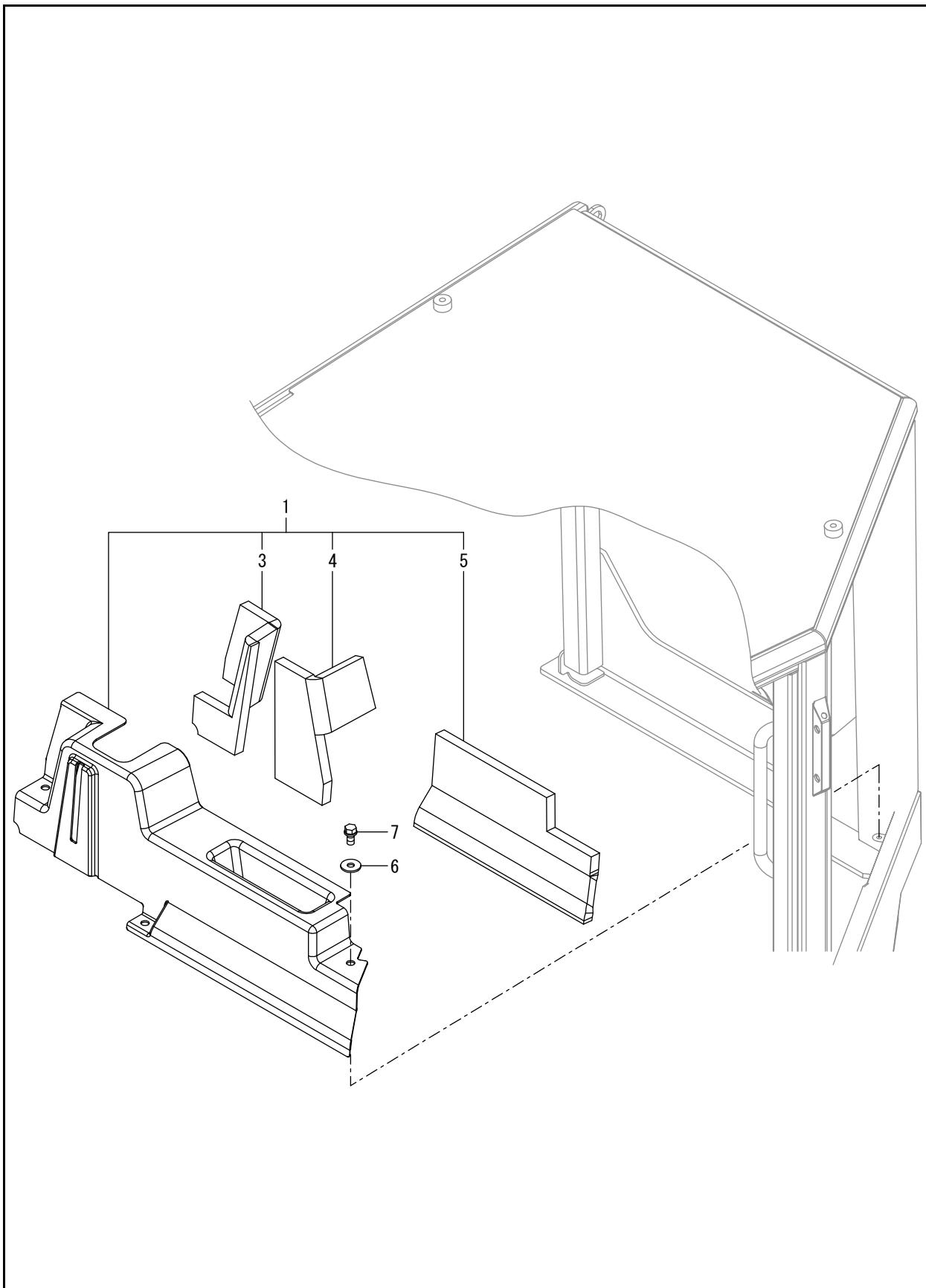


Z80 - COMPACT EXCAVATOR
FIG. 87 - REARVIEW MIRROR

Ref. No.	Part No.	Description	Ref. No.
1	50281414	REARVIEW MIRROR	1
2	50281779	MIRROR BRACKET	1
3	50282516	BOLT W/WASHER M10X25	2

Z80 - COMPACT EXCAVATOR

FIG. 88 - CABIN ACCESSORY

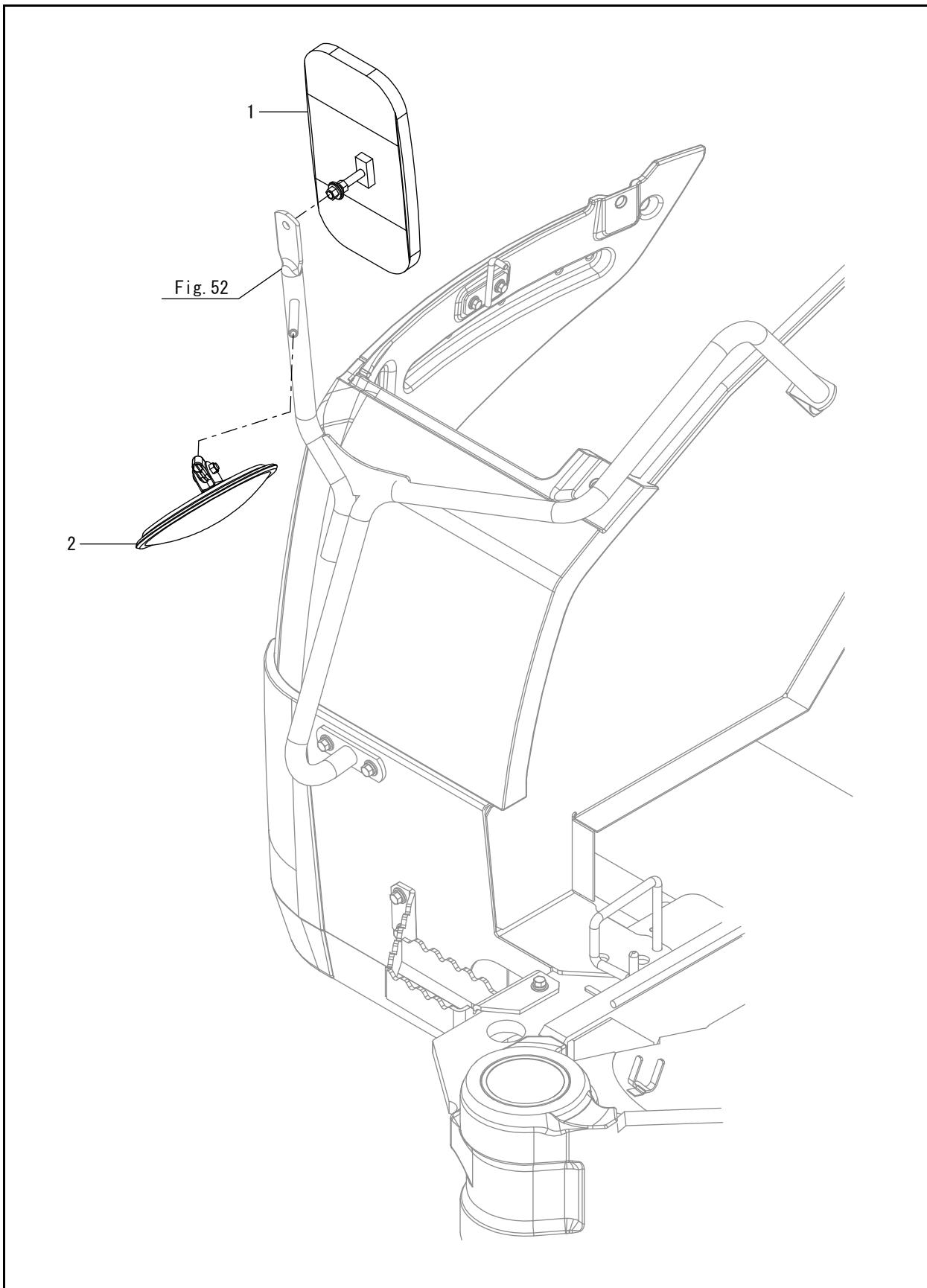


Z80 - COMPACT EXCAVATOR
FIG. 88 - CABIN ACCESSORY

Ref. No.	Part No.	Description	Ref. No.
1	50288591	REAR CAB TRIM	1
3	50288592	PAD	1
4	50288593	PAD	1
5	50288594	PAD	1
6	186593	WASHER 8	3
7	50282506	BOLT W/WASHER M8X16	3

Z80 - COMPACT EXCAVATOR

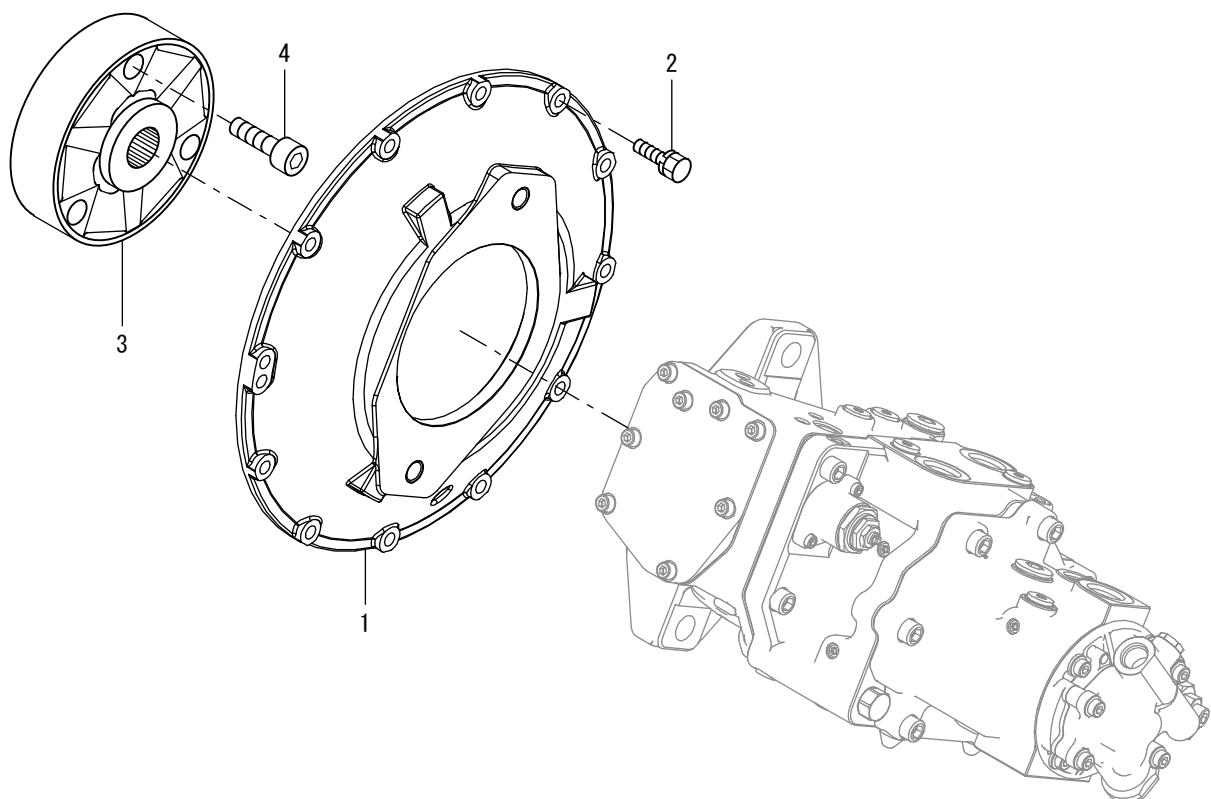
FIG. 89 - SIDE MIRROR



Z80 - COMPACT EXCAVATOR
FIG. 89 - SIDE MIRROR

Ref. No.	Part No.	Description	Ref. No.
1	50282374	BACK MIRROR ASSY.	1
2	50281414	REARVIEW MIRROR	1

Z80 - COMPACT EXCAVATOR
FIG. 90 - HYD. OIL PUMP MOUNT & JOINT

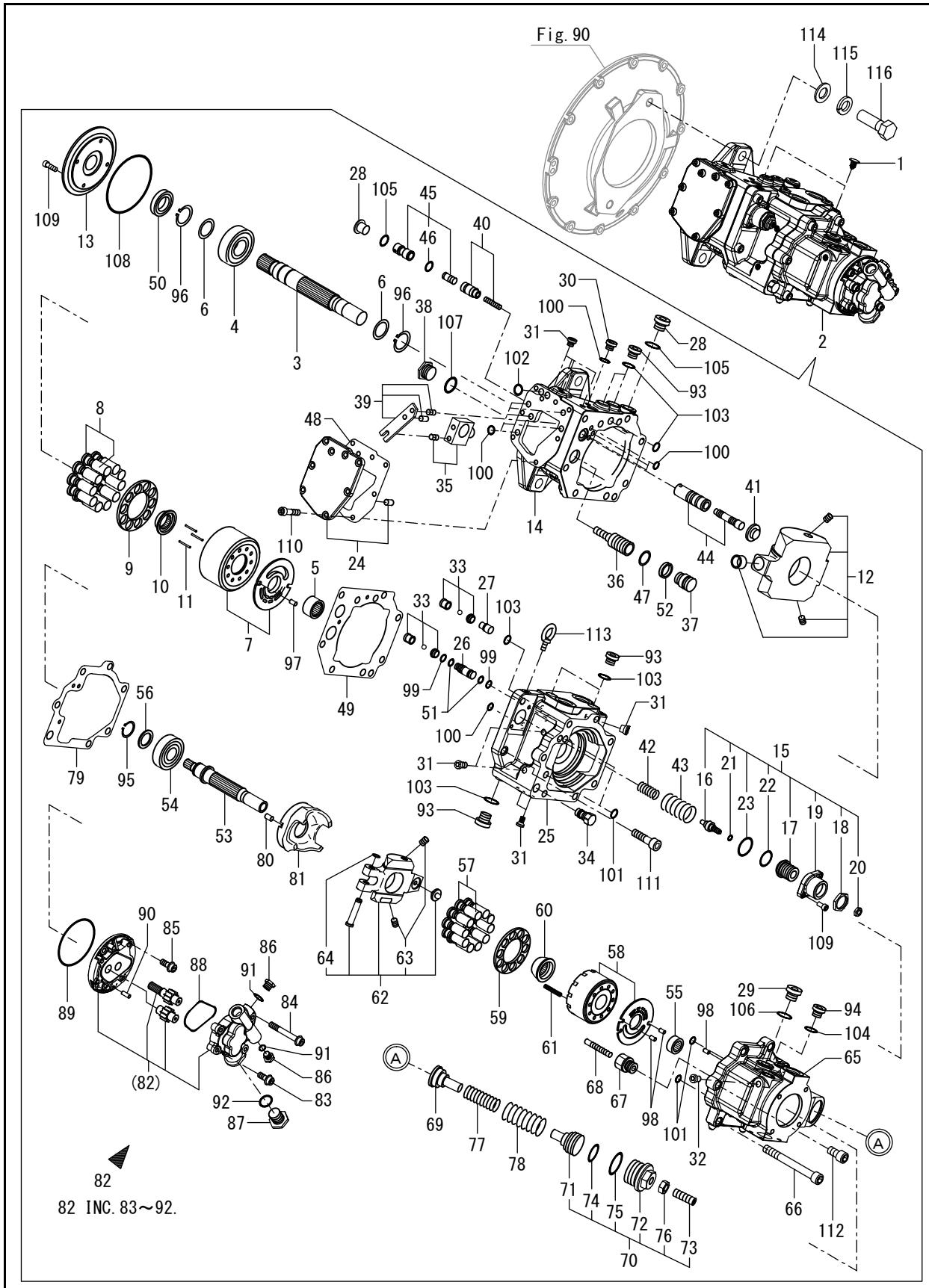


Z80 - COMPACT EXCAVATOR
FIG. 90 - HYD. OIL PUMP MOUNT & JOINT

Ref. No.	Part No.	Description	Ref. No.
1	50288733	PUMP MOUNT	1
2	50282517	BOLT M10X 30	12
3	50281266	JOINT	1
4	50280953	BOLT 14X 50	3

Z80 - COMPACT EXCAVATOR

FIG. 91 - HYD. OIL PUMP

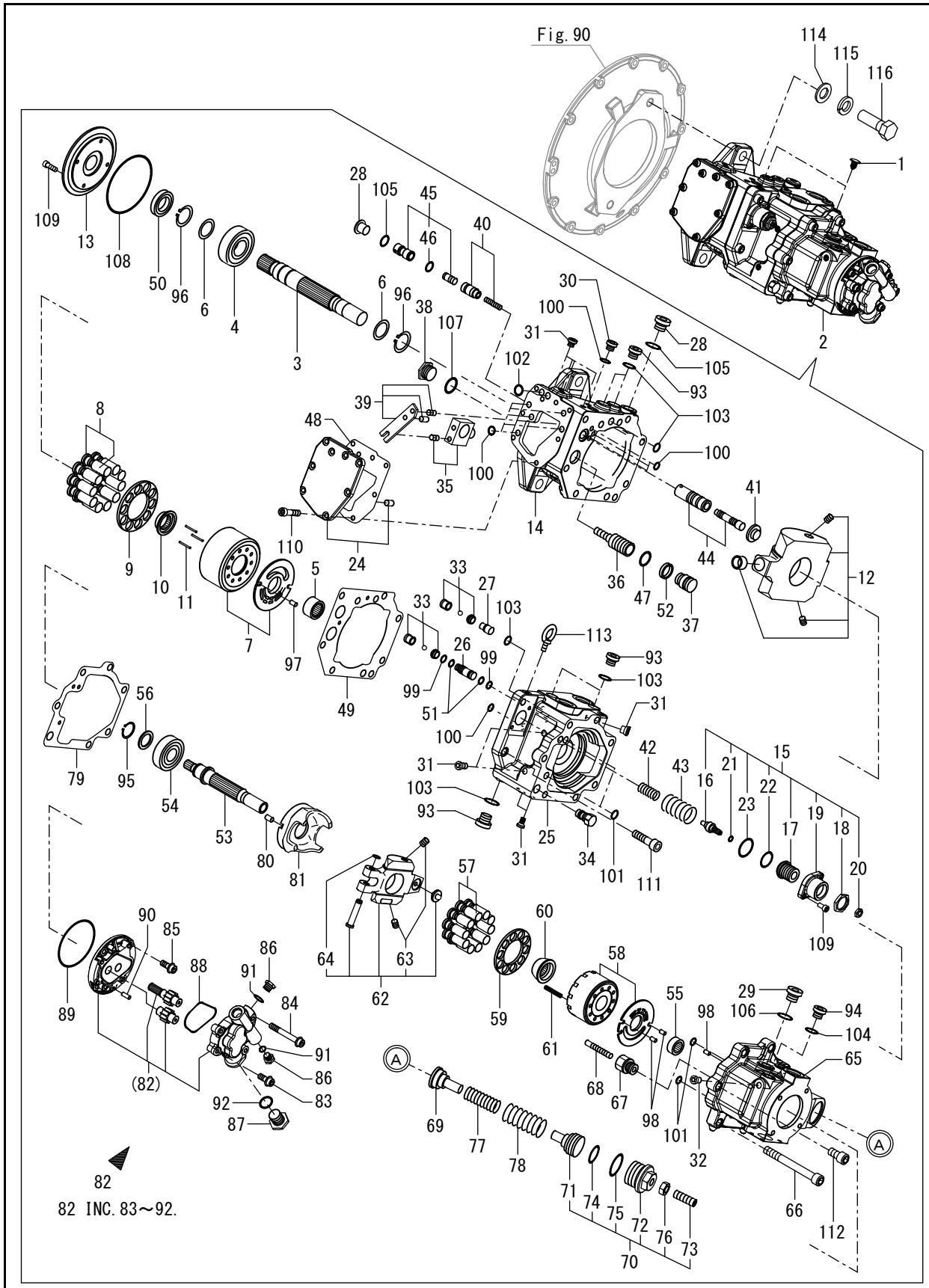


Z80 - COMPACT EXCAVATOR

FIG. 91 - HYD. OIL PUMP

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.
1	50280782	CLIP	2	48	GASKET	1
2	50288790	PUMP ASSY	1	49	GASKET	1
3	50288656	SHAFT	1	50	OIL SEAL	1
4	50288657	BALL BEARING	1	51	BACKUP RING	2
5	50288658	NEEDLE BEARING	1	52	BACKUP RING	1
6	50288659	SPACER	2	53	DRIVE SHAFT	1
7	50288660	CYLINDER ASSY	1	54	BALL BEARING	1
8	50288661	PISTON ASSY	1	55	NEEDLE BEARING	1
9	50288662	PLATE	1	56	SPACER	1
10	50288663	BUSHING	1	57	PISTON ASSY	1
11	50288664	SPRING	10	58	CYLINDER ASSY	1
12	50288665	PLATE ASSY	1	59	RETAINER	1
13	50288666	COVER	1	60	BUSHING	1
14	50288667	CASE	1	61	SPRING	6
15	50288668	COVER ASSY	1	62	PLATE ASSY	1
16	50288687	ADJUSTMENT ROD	1	63	PLUG	2
17	50288688	ADJUSTMENT NUT	1	64	425-35203	1
18	50288689	LOCKNUT	1	65	CASE	1
19	50288690	SPRING COVER	1	66	SOCKET BOLT M12	6
20	50288700	NUT	1	67	PISTON CASE	1
21	50285892	O-RING 1B P- 9.0	1	68	PIN	1
22	50282479	O-RING 1B P-26.0	1	69	SPRING SEAT	1
23	50288870	O-RING	1	70	PLUG ASSY	1
24	50288669	COVER ASSY	1	71	ADJUSTMENT ROD	1
25	50288670	VALVE BLOCK	1	72	PLUG	1
26	50288671	SEAL PIPE	1	73	ADJUSTMENT BOLT	1
27	50288672	SPACER	1	74	O-RING	1
28	50288673	PLUG	2	75	O-RING	1
29	50288673	PLUG	1	76	LOCKNUT M16	1
30	50288674	PLUG	1	77	INNER SPRING	1
31	50288675	PLUG	9	78	OUTER SPRING	1
32	50288675	PLUG	1	79	GASKET	1
33	50288676	CHECK VALVE ASSY	2	80	PIN	1
34	50288677	PLUG	1	81	SUPPORT	1
35	50288678	PIN	1	82	GEAR PUMP ASSY	1
36	50288679	SERVO PISTON	1	83	FLANGE SOCKET	2
37	50288680	STOPPER	1	84	FLANGE SOCKET	2
38	50288681	PLUG	1	85	FLANGE SOCKET	4
39	50288682	FEEDBACK LEVER ASSY	1	86	PLUG	2
40	50288683	PISTON ASSY	1	87	PLUG	1
41	50288684	SPRING SEAT	1	88	RING	1
42	50288685	INNER SPRING	1	89	O-RING	1
43	50288686	OUTER SPRING	1	90	PIN	2
44	50288691	SPOOL ASSY	1	91	O-RING 1B P-11.0	1
45	50288692	PISTON ASSY	1	92	O-RING 1B P-24.0	1
46	50288693	O-RING	1	93	PLUG	6
47	50288694	O-RING	1	94	PLUG	1

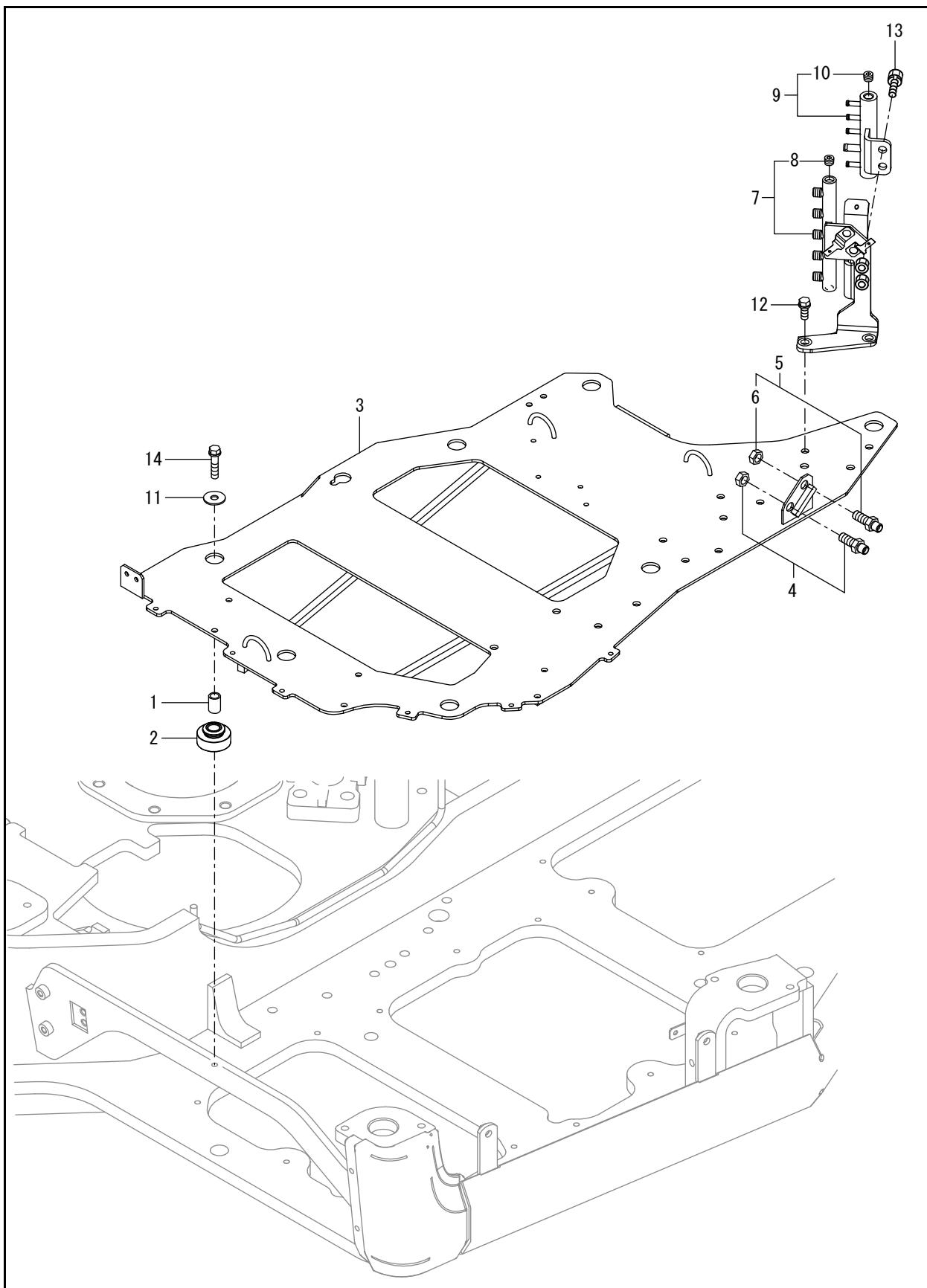
Z80 - COMPACT EXCAVATOR
FIG. 91 - HYD. OIL PUMP (CONT.)



Z80 - COMPACT EXCAVATOR
FIG. 91 - HYD. OIL PUMP (CONT.)

Ref. No.	Part No.	Description	Ref. No.
95	50282399	CIRCLIP 25S	1
96	50282400	CIRCLIP 35	2
97	50288898	PIN	1
98	50288898	PIN	3
99	50282467	O-RING 1B P-7.0	2
100	50282468	O-RING 1B P-8.0	10
101	50282468	O-RING 1B P-8.0	4
102	50282469	O-RING 1B P-10.0	2
103	50282470	O-RING 1B P-11.0	8
104	50282470	O-RING 1B P-11.0	1
105	50282474	O-RING 1B P-18.0	2
106	50282474	O-RING 1B P-18.0	1
107	50282477	O-RING 1B P-24.0	1
108	50284853	O-RING 1B G-85.0	1
109	425-35254	BOLT M5 X 20	6
110	50284134	BOLT M8 X 25	8
111	50284137	BOLT M12 X 40	3
112	50284137	BOLT M12 X 40	1
113	50282593	BOLT, EYE M10	2
114	50288864	WASHER	2
115	186596	SPRING WASHER 18	2
116	50288875	BOLT M18X 55 PLATED	2

Z80 - COMPACT EXCAVATOR
FIG. 92 - CONTROL VALVE PLATE

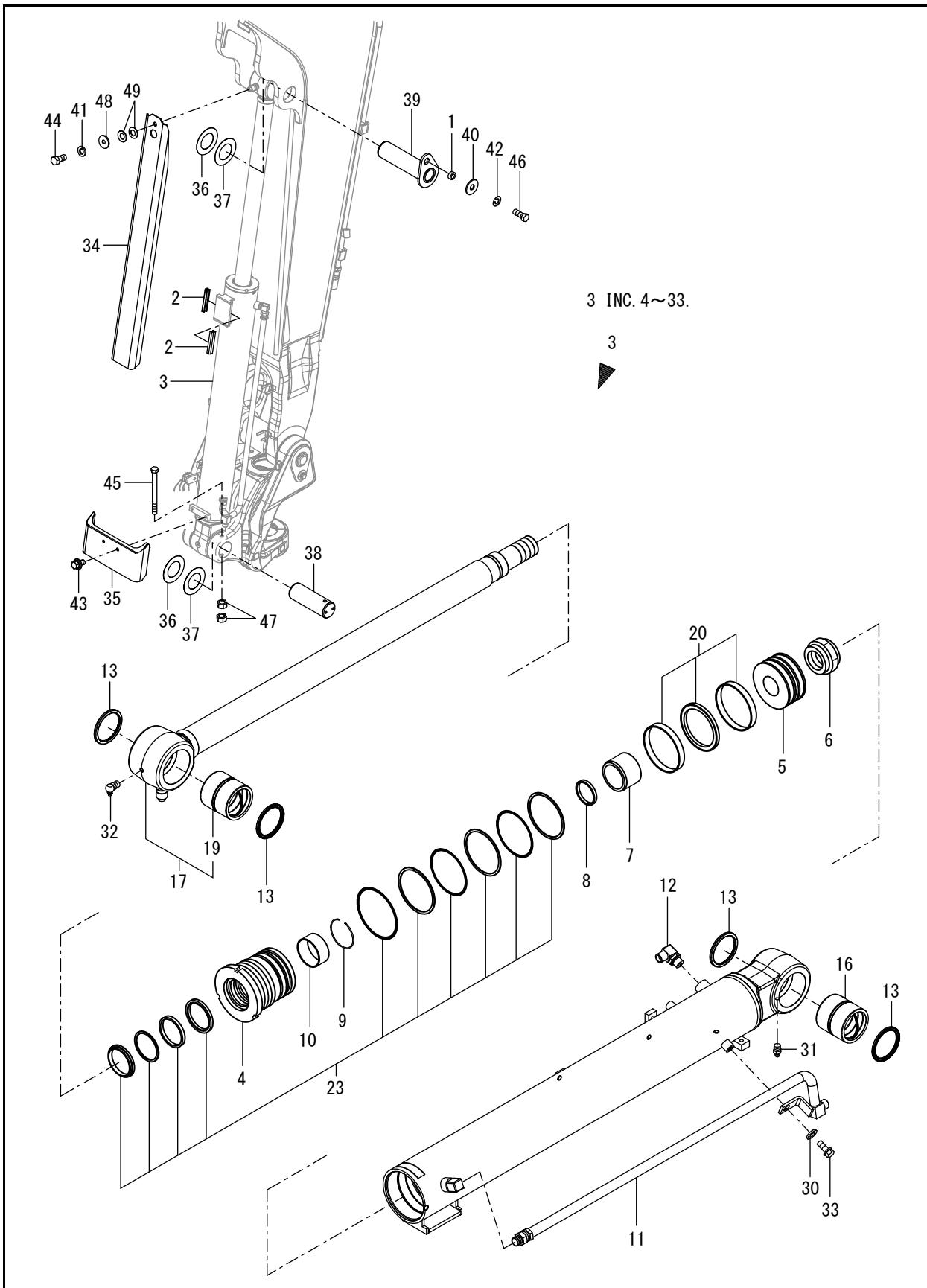


Z80 - COMPACT EXCAVATOR
FIG. 92 - CONTROL VALVE PLATE

Ref. No.	Part No.	Description	Ref. No.
1	50281875	COLLAR	7
2	50281876	GROMMET17X50	7
3	50288739	VALVE PLATE ASSY	1
4	50280841	JOINT	1
5	50282303	JOINT	1
6	50282304	NUT,LOCK	1
7	50281967	BLOCK MOUNT ASSY	1
8	425-35678	PLUG PT 1/4 SCREW	1
9	50288825	BLOCK SUPPORT	1
10	425-35678	PLUG PT 1/4 SCREW	1
11	50282387	WASHER 10	7
12	50282516	BOLT W/WASHER M10X25	2
13	50282516	BOLT W/WASHER M10X25	2
14	50282520	BOLT M10X 45	7

Z80 - COMPACT EXCAVATOR

FIG. 93 - BOOM CYLINDER

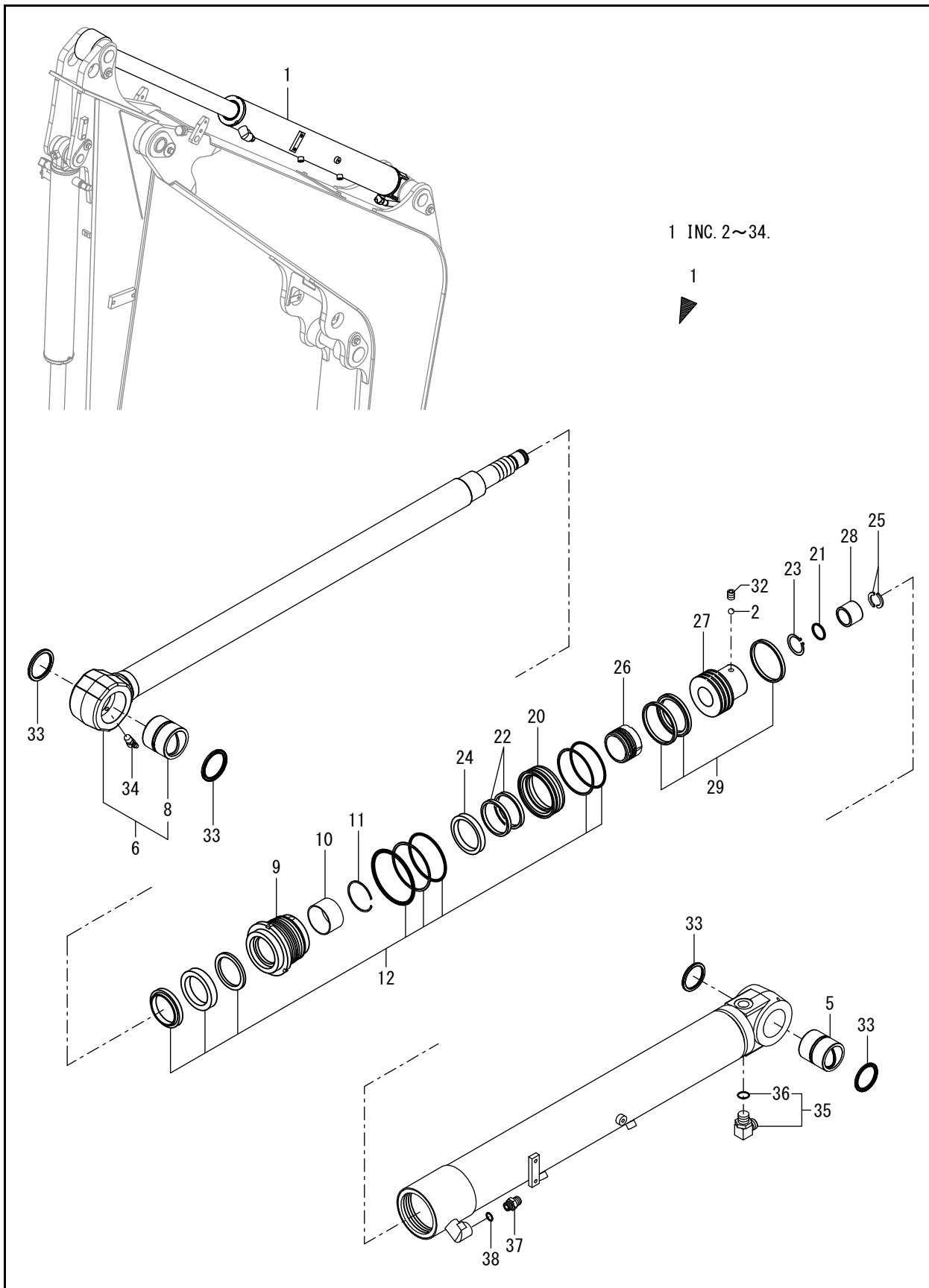


Z80 - COMPACT EXCAVATOR
FIG. 93 - BOOM CYLINDER

Ref. No.	Part No.	Description	Ref. No.
1	50280845	SPACER	1
2	50280864	GUIDE,SLIDE	2
3	50288741	BOOM CYLINDER	1
4	50288742	HEAD GLAND	1
5	50288743	PISTON	1
6	50288744	LOCKNUT	1
7	50288745	CUSHION	1
8	50288746	CUSHION SEAL	1
9	50288747	RETAINING RING	1
10	50288748	SLEEVE BEARING	1
11	50288749	HYDRAULIC TUBE	1
12	50288750	ELBOW FITTING	1
13	50288751	SEAL	4
16	50288734	BUSHING	1
17	50288752	CYLINDER ROD ASSY	1
19	50288734	BUSHING	1
20	50288753	PISTON SEAL KIT	1
23	50288754	CYLINDER HEAD SEAL KIT	1
30	138111	WASHER/POLISHED	1
31	50282497	NIPPLE PT1/8,GREASE	1
32	50282499	NIPPLE C,GREASE	1
33	50288873	BOLT 10 X 16	1
34	50280954	SLIDE COVER	1
35	50282266	HOSE BOOM COVER	1
36	50280915	SHIM	2
37	50280916	SHIM	2
38	50280988	PIN, 70X200	1
39	50282341	PIN ASSY,70X252	1
40	50282389	WASHER, 14	1
41	50282393	SPRING WASHER 10	1
42	188712	SPRING/WASHER 14	1
43	50282538	BOLT M10X 20	2
44	50282564	BOLT M10X 20 PLATED	1
45	50282565	BOLT M12X140 PLATED	1
46	50282567	BOLT M14X 35 PLATED	1
47	210-32084	NUT, HEX M12 X 1.75	2
48	50282617	WASHER, BRAKE ARM	1
49	50282620	SPRING 16	2

Z80 - COMPACT EXCAVATOR

FIG. 94 - ARM CYLINDER

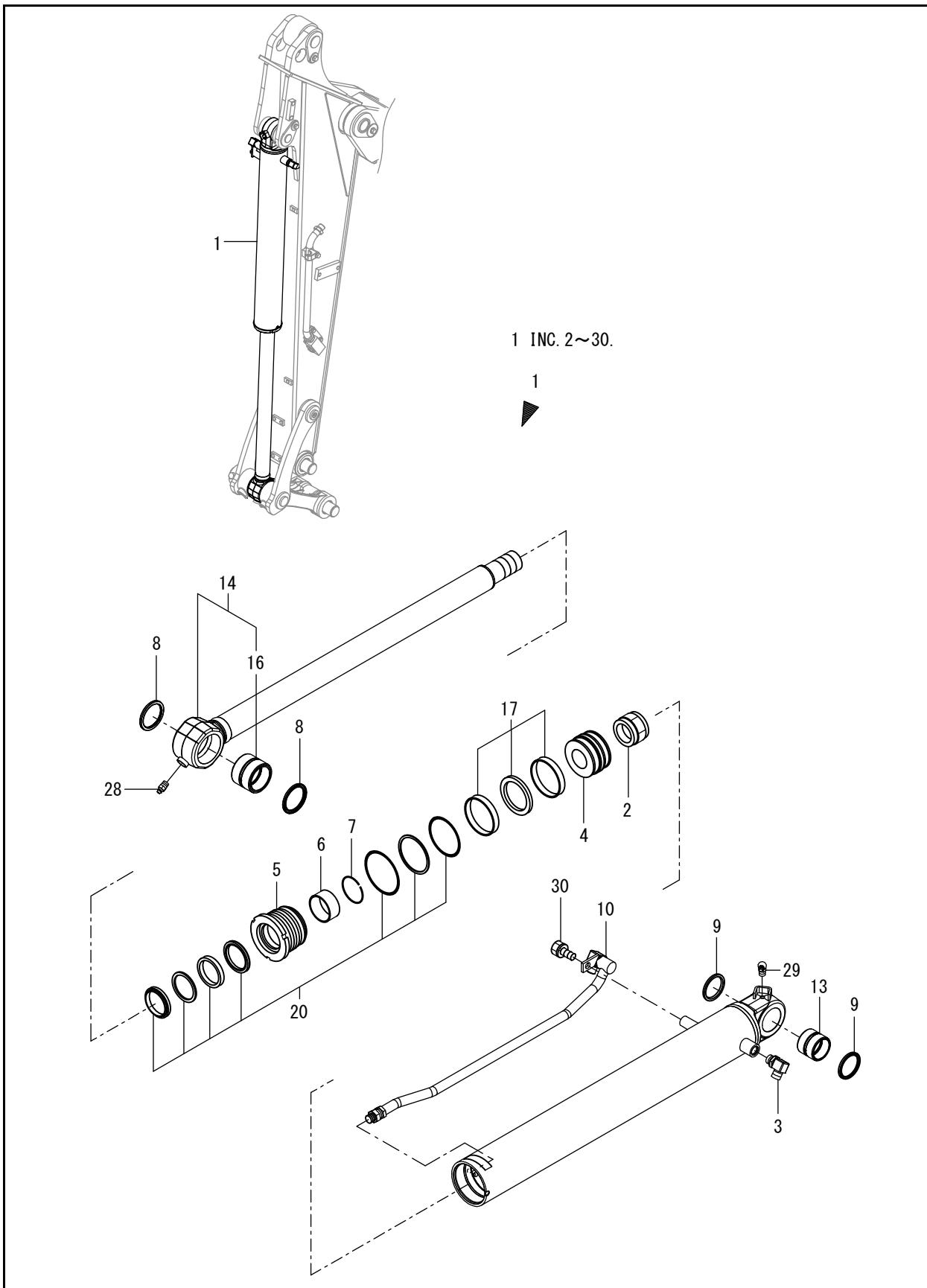


Z80 - COMPACT EXCAVATOR
FIG. 94 - ARM CYLINDER

Ref. No.	Part No.	Description	Ref. No.
1	50282243	CYLINDER ARM	1
2	50280795	BALL	1
5	50281882	PIN BUSHING	1
6	50282245	ROD KIT, PISTON	1
8	50281883	PIN BUSHING	1
9	50282246	HEAD, CYLINDER	1
10	50282247	BUSHING	1
11	50282248	RING,SNAP	1
12	50282249	REPAIR KIT,CYLINDER	1
20	50282250	HOLDER	1
21	50281879	SEAL, CUSHION	1
22	50282251	SEAL, CUSHION	2
23	50281880	RING,SNAP	1
24	50282252	COLLAR	1
25	50281881	STOPPER	2
26	50282253	BEARING, CUSHION	1
27	50282254	PISTON	1
28	50282255	BEARING, CUSHION	1
29	50282263	REPAIR KIT,CYLINDER	1
32	50280872	SCREW,SET	1
33	50280873	SEAL,DUST	4
34	50282499	NIPPLE C,GREASE	1
35	50280814	CONNECTOR 1/2L	1
36	50282474	O-RING 1B P-18.0	1
37	50280778	CONNECTOR	1
38	50282609	O RING	1

Z80 - COMPACT EXCAVATOR

FIG. 95 - BUCKET CYLINDER

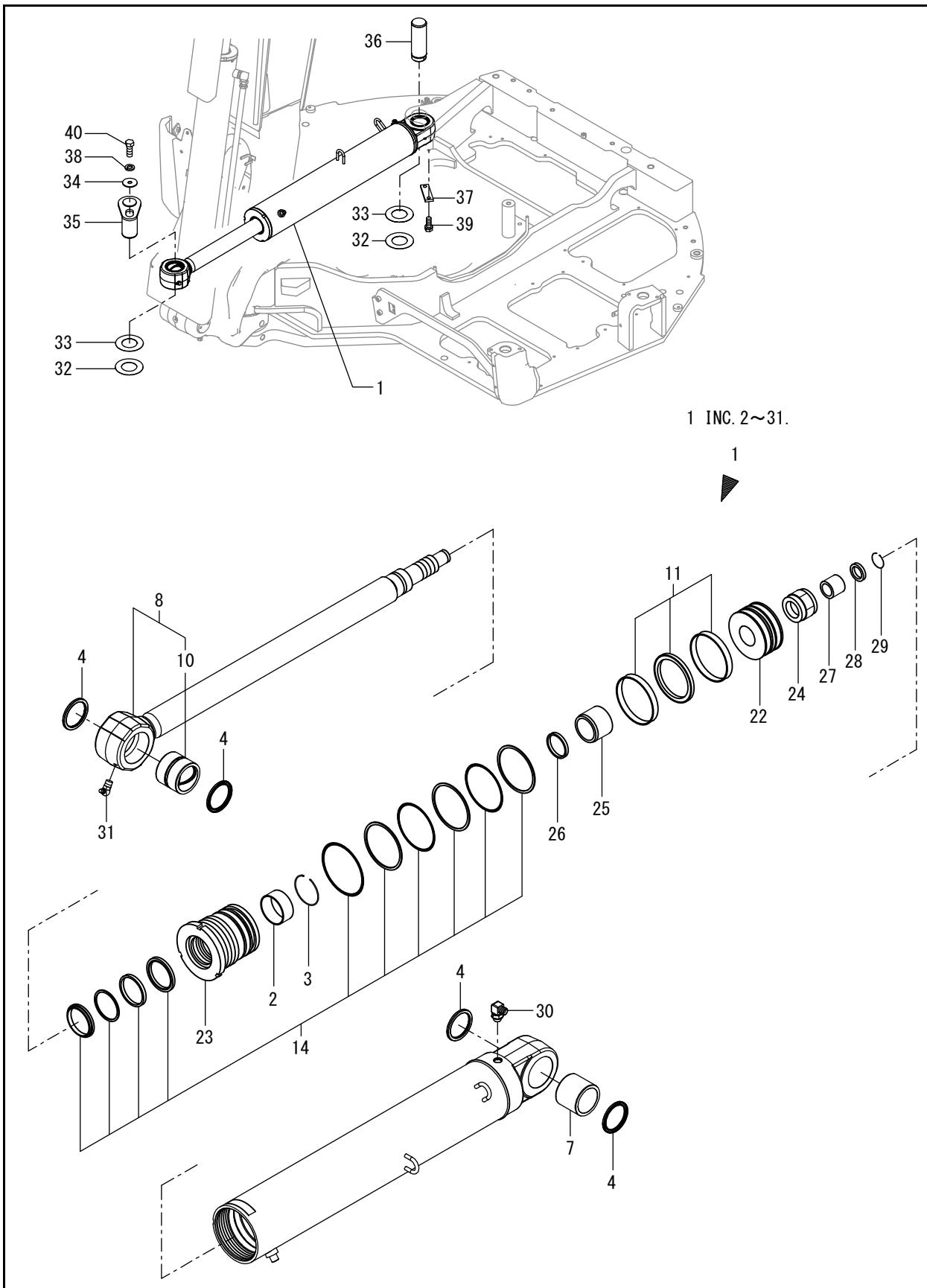


Z80 - COMPACT EXCAVATOR
FIG. 95 - BUCKET CYLINDER

Ref. No.	Part No.	Description	Ref. No.
1	50288755	BUCKET CYLINDER	1
2	50288744	LOCKNUT	1
3	50288750	ELBOW FITTING	1
4	50288756	PISTON	1
5	50288757	HEAD	1
6	50288758	SLEEVE BEARING	1
7	50288759	RETAINING RING	1
8	50288760	SEAL	2
9	50288762	SEAL	2
10	50288763	HYDRAULIC TUBE	1
13	50288736	BUSHING	1
14	50288764	CYLINDER ROD ASSY	1
16	50288735	BUSHING	1
17	50288765	PISTON SEAL KIT	1
20	50288766	CYLINDER HEAD SEAL KIT	1
28	50282497	NIPPLE PT1/8,GREASE	1
29	50282499	NIPPLE C,GREASE	1
30	50288873	BOLT 10 X 16	1

Z80 - COMPACT EXCAVATOR

FIG. 96 - SWING CYLINDER

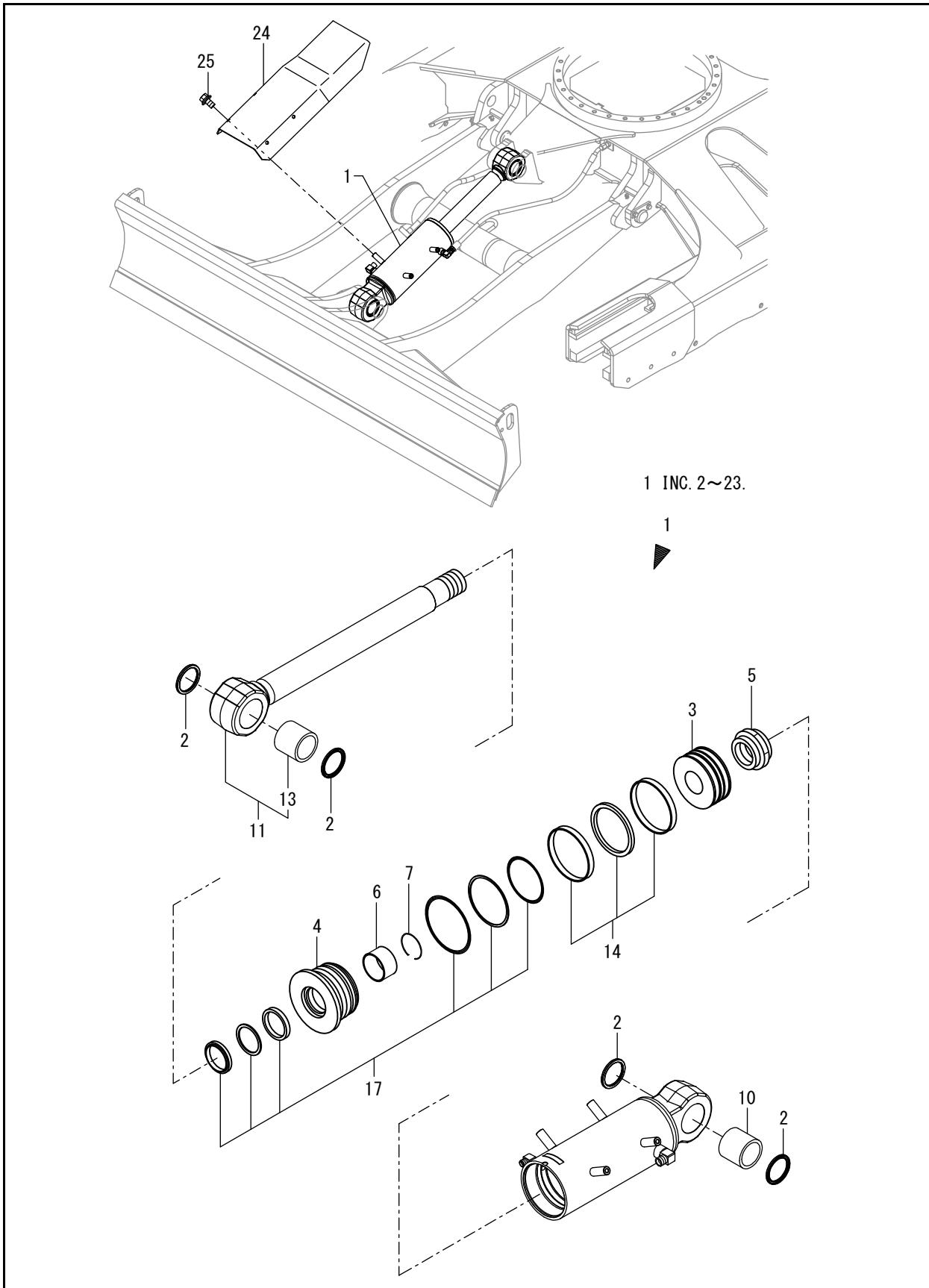


Z80 - COMPACT EXCAVATOR
FIG. 96 - SWING CYLINDER

Ref. No.	Part No.	Description	Ref. No.
1	50288770	SWING CYLINDER	1
2	50288758	SLEEVE BEARING	1
3	50288759	RETAINING RING	1
4	50288761	SEAL	4
7	50288737	BUSHING	1
8	50288767	CYLINDER ROD ASSY	1
10	50288738	BUSHING	1
11	50288768	PISTON SEAL KIT	1
14	50288769	CYLINDER HEAD SEAL KIT	1
22	50288771	PISTON	1
23	50288772	HEAD GLAND	1
24	50288773	LOCKNUT	1
25	50288774	CUSHION	1
26	50288775	CUSHION SEAL	1
27	50288776	CUSHION	1
28	50288777	RING	1
29	50288778	RETAINING RING	1
30	50288779	ELBOW FITTING	1
31	50282499	NIPPLE C,GREASE	1
32	50280910	SHIM 60X110X0.8	4
33	50280911	SHIM	4
34	50280991	WASHER	1
35	50280994	PIN 60X144	1
36	50282077	PIN 60X155	1
37	50280886	LOCK PLATE	1
38	188712	SPRING/WASHER 14	1
39	50282525	BOLT W/WASHER M12X30	2
40	50282567	BOLT M14X 35 PLATED	1

Z80 - COMPACT EXCAVATOR

FIG. 97 - BLADE CYLINDER

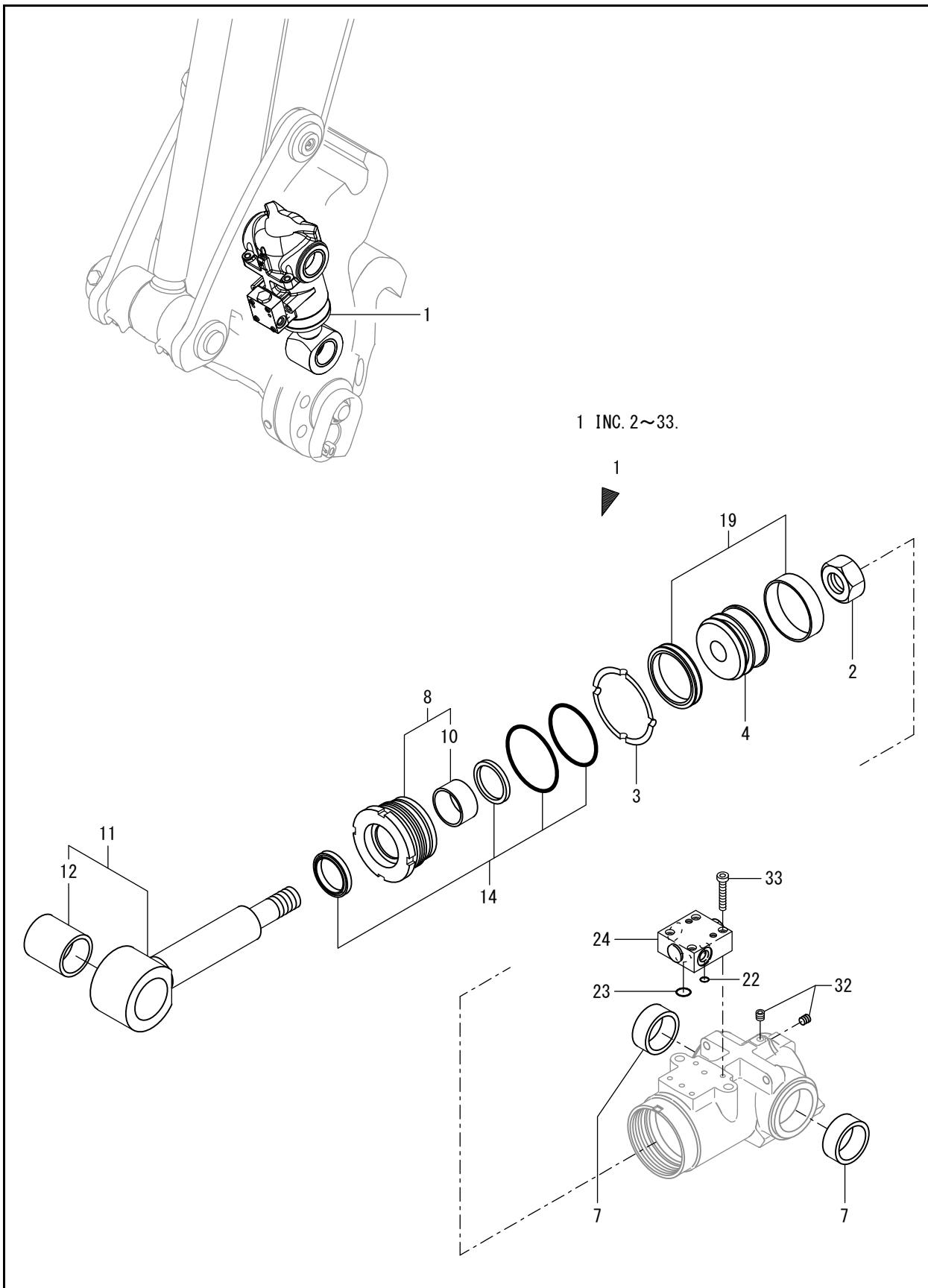


Z80 - COMPACT EXCAVATOR
FIG. 97 - BLADE CYLINDER

Ref. No.	Part No.	Description	Ref. No.
1	50288780	BLADE CYLINDER	1
2	50288760	SEAL	4
3	50288781	PISTON	1
4	50288782	HEAD GLAND	1
5	50288783	LOCKNUT	1
6	50288784	SLEEVE BEARING	1
7	50288785	RETAINING RING	1
10	50288740	BUSHING	1
11	50288786	CYLINDER ROD ASSY	1
13	50288740	BUSHING	1
14	50288787	PISTON SEAL KIT	1
17	50288788	CYLINDER HEAD SEAL KIT	1
24	50288789	BLADE CYLINDER GUARD	1
25	50282538	BOLT M10X 20	4

Z80 - COMPACT EXCAVATOR

FIG. 98 - HITCH CYLINDER

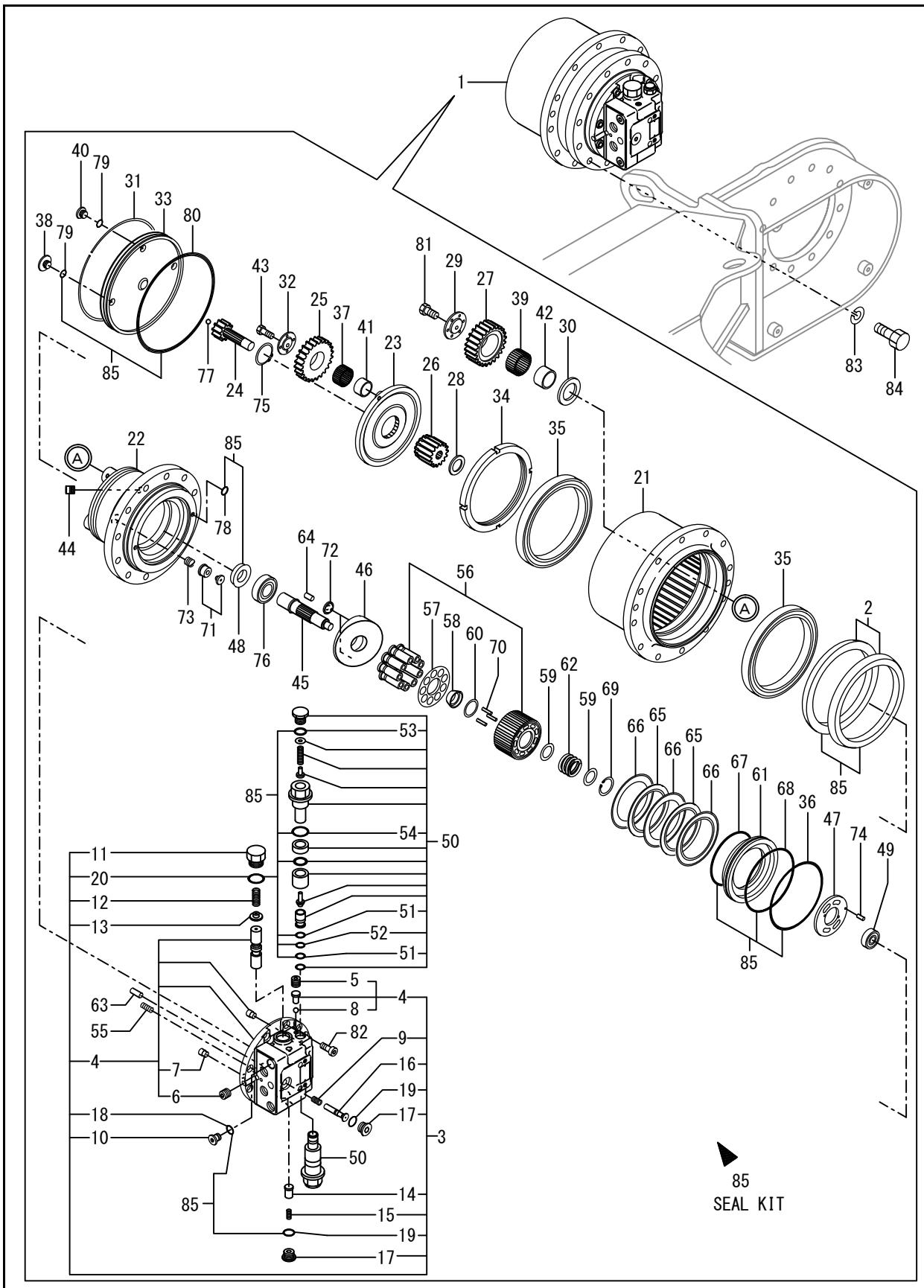


Z80 - COMPACT EXCAVATOR
FIG. 98 - HITCH CYLINDER

Ref. No.	Part No.	Description	Ref. No.
1	50281382	CYLINDER HITCH	1
2	50280811	U-NUT M27	1
3	50280818	WASHER 80 B	1
4	50280907	PISTON 80	1
7	50281386	BUSHING 45-55-22	2
8	50281384	HEAD 80 45	1
10	50282495	BEARING, 45 X 25	1
11	50281385	ROD ASSY,HITCH	1
12	50280837	BUSHING 45 60	1
14	50281387	HEAD SEAL SET 80X45	1
19	50280819	SEAL SET, PISTON	1
22	50281374	O-RING P8	1
23	50281375	O-RING P14	1
24	50283277	VALVE ASSY,OPERATE	1
32	50282446	PLUG, PT1/16	2
33	50282582	BOLT M 6X 30	4

Z80 - COMPACT EXCAVATOR

FIG. 99 - TRAVEL MOTOR

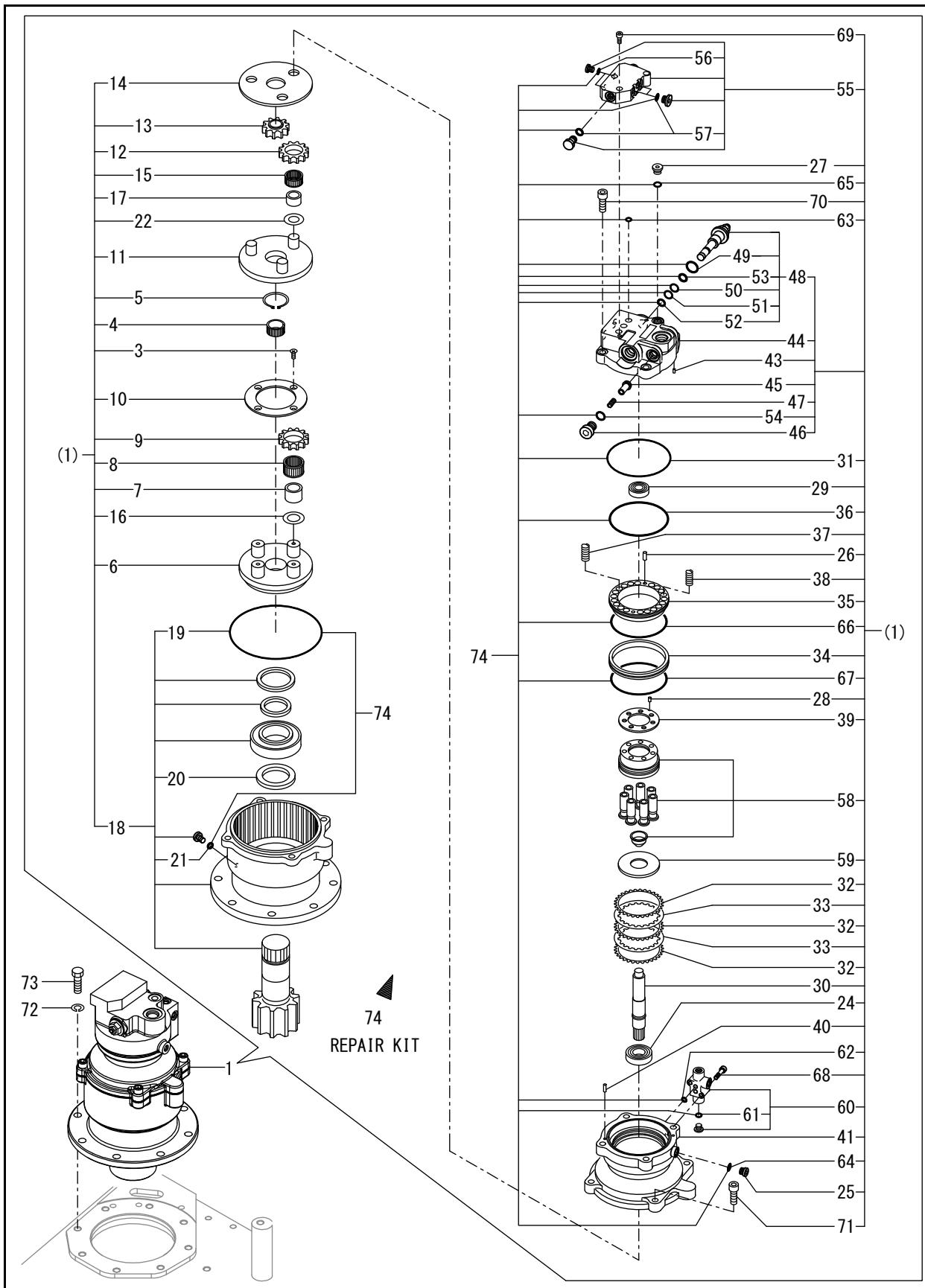


Z80 - COMPACT EXCAVATOR**FIG. 99 - TRAVEL MOTOR**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.
1	50282273	MOTOR ASSY, DRIVE	2	48	50281530	SEAL, OIL
2	50281506	SEAL KIT, FLOATING	2	49	50281531	BEARING
3	50282274	FLANGE,REAR	2	50	50281532	VALVE ASSY,RELIEF
4	50282275	FLANGE,REAR	2	51	50281533	RING,BACK-UP
5	50281212	PLUG	6	52	50282469	O-RING 1B P-10.0
6	50281213	PLUG	8	53	50282470	O-RING 1B P-11.0
7	50281904	ORIFICE	2	54	50282475	O-RING 1B P-20.0
8	50282455	BALL 3/16	2	55	50281210	SPRING
9	50282276	SPRING	2	56	50281291	PISTON ASSEMBLE
10	50281209	PLUG	2	57	50281292	RETAINER PLATE
11	50281534	PLUG	4	58	50281293	THRUST BALL
12	50281535	SPRING	4	59	50281294	WASHER
13	50281214	SPRING RETAINER	4	60	50281295	WASHER
14	50281215	VALVE	4	61	50281296	PISTON, HYDRAULIC
15	50281216	SPRING	4	62	50281297	SPRING
16	50281903	SPOOL	2	63	50281211	PIN, STRAIGHT
17	50281217	PLUG	6	64	50281211	PIN, STRAIGHT
18	50288156	O-RING	2	65	50281298	PLATE, FRICTION
19	50282474	O-RING 1B P-18.0	6	66	50281299	PLATE
20	50282479	O-RING 1B P-26.0	4	67	50281300	O-RING
21	50281507	HUB	2	68	50281301	O-RING
22	50281508	SPINDLE	2	69	50281302	RING
23	50281509	CARRIER	2	70	50281303	ROLLER
24	50281510	SUN GEAR 1	2	71	50281304	PISTON ASSEMBLY
25	50281511	PLANETARY, GEAR 1	6	72	50281305	PIVOT
26	50281512	SUN GEAR 2	2	73	50281306	SPRING
27	50281513	PLANETARY, GEAR 2	8	74	50281218	PIN, STRAIGHT
28	50281514	COLLAR, THRUST	2	75	50282403	CIRCLIP 45
29	50281515	WASHER 1,THRUST	8	76	50282452	BALL BEARING
30	50281516	WASHER 2,THRUST	8	77	50282457	BALL 3/8, STEEL
31	50281207	RING	2	78	50282467	O-RING 1B P-7.0
32	50281517	WASHER 3,THRUST	6	79	50288156	O-RING
33	50281518	COVER	2	80	50282487	O-RING, 1A G230.0
34	50281519	NUT,RING	2	81	50282550	BOLT, 10X20
35	50281520	B.BEARING	4	82	50282589	BOLT M12X30
36	50281290	O-RING	2	83	50282396	SPRING WASHER 16
37	50281521	ROLLER	6	84	50282571	BOLT M16X 45 PLATED
38	50281208	NUT	2	85	50281536	KIT, SEAL
39	50281522	ROLLER	8			
40	50281209	PLUG	4			
41	50281523	RING, INNER	6			
42	50281524	RING, INNER	8			
43	50281525	BOLT M8X20 10.9T	6			
44	50281526	SCREW 8X12	4			
45	50281527	SHAFT	2			
46	50281528	SWASH PLATE	2			
47	50281529	PLATE, TIMING	2			

Z80 - COMPACT EXCAVATOR

FIG. 100 - TURNING MOTOR

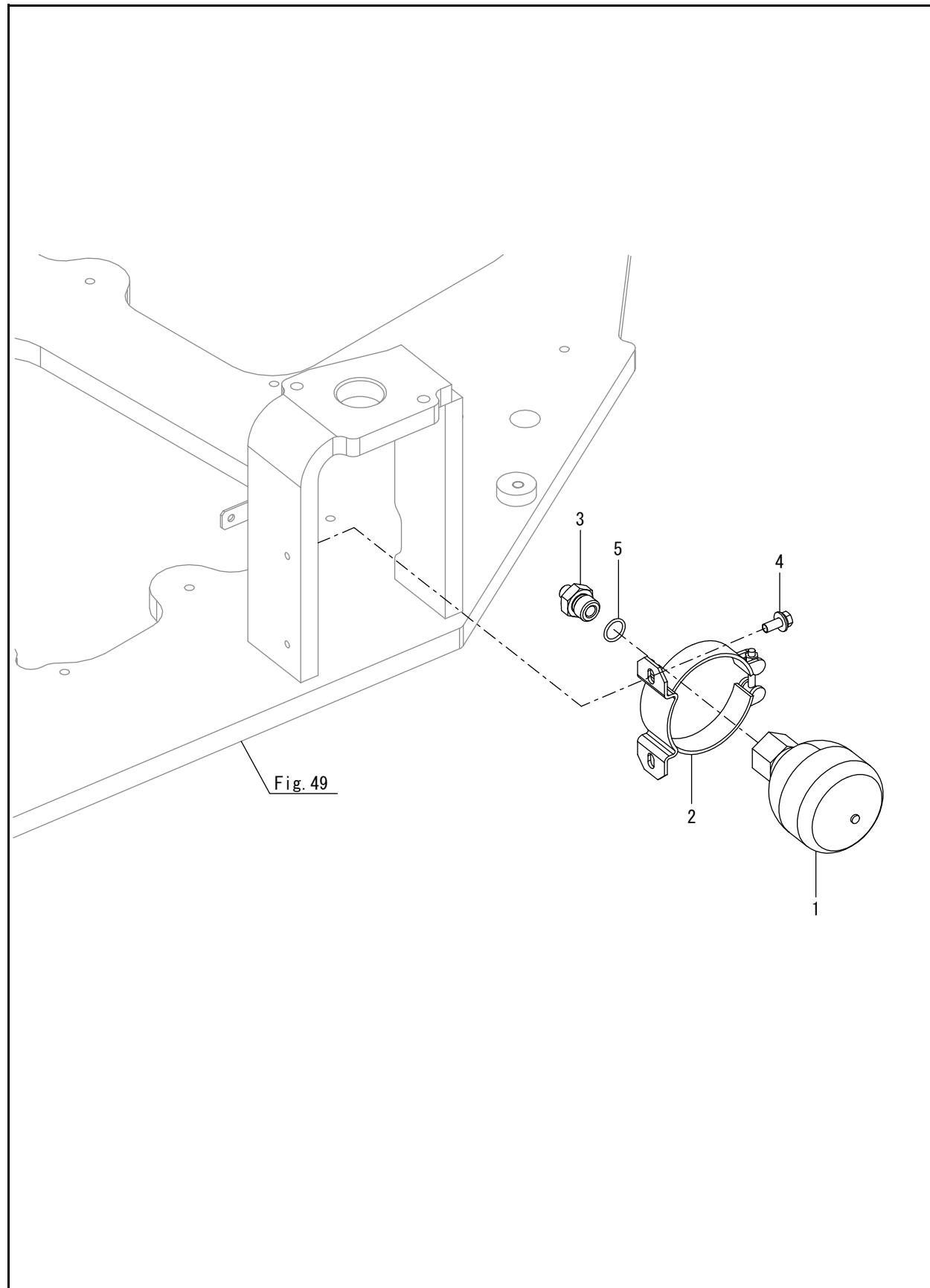


Z80 - COMPACT EXCAVATOR
FIG. 100 - TURNING MOTOR

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.
1	50288792	SWIVEL MOTOR ASSY	1	50281002	RING, BUCK UP	2
3	50280867	SCREW	4	50282472	O-RING 1B P-15.0	2
4	50280868	GEAR,SUN	1	50282473	O-RING 1B P-16.0	2
5	50280869	RING,SNAP	1	50282476	O-RING 1B P 21	2
6	50281240	HOLDER	1	50281898	VALVE ASSY	1
7	50281241	RACE,INNER	4	50282470	O-RING 1B P-11.0	2
8	50281242	BEARING,NEEDLE	4	50288156	O-RING	4
9	50281243	GEAR,PLANETARY	4	50281899	CYLINDER BLOCK ASSY	1
10	50281244	PLATE,THRUST	1	50281901	PLATE,THRUST	1
11	50281245	HOLDER	1	50281902	VALVE ASSY	1
12	50281246	GEAR,PLANETARY	3	50282470	O-RING 1B P-11.0	1
13	50281247	GEAR,DRIVE	1	50282467	O-RING 1B P-7.0	2
14	50281265	PLATE THRUST KIT	1	50282469	O-RING 1B P-10.0	3
15	50281062	NEEDLE BEARING	3	50282470	O-RING 1B P-11.0	1
16	50281012	WASHER	4	50288156	O-RING	1
17	50281063	INNER RACE	3	50282491	O-RING, 1B G130.0	1
18	50281900	HOUSING ASSY	1	50282492	PACKING, G145.0	1
19	50280866	O-RING	1	50282582	BOLT M 6X 30	2
20	50281895	SEAL, OIL	1	50282586	BOLT M 8X 20	3
21	50282468	O-RING 1B P-8.0	1	50282590	BOLT, 14 X 40	4
22	50281064	WASHER,THRUST	3	50282590	BOLT, 14 X 40	4
24	50280785	BEARING	1	50282396	SPRING WASHER 16	8
25	50280836	PLUG	1	50282553	BOLT, 16 X 50	8
26	50280786	PIN	2	50281264	REPAIR KIT	1
27	50280828	PLUG	1			
28	50280787	PIN	1			
29	50280870	BEARING,BALL	1			
30	50281248	SHAFT	1			
31	50280871	O-RING	1			
32	50281249	DISK	3			
33	50281250	PLATE,FRICITION	2			
34	50281251	COLLAR	1			
35	50281252	PISTON,BRAKE	1			
36	50281253	O-RING AS568-257	1			
37	50281254	SPRING	12			
38	50281255	SPRING	8			
39	50281262	PLATE,VALVE	1			
40	50281263	PIN	2			
41	50281896	CASE	1			
43	50280796	ORIFICE	1			
44	50281256	COVER	1			
45	50281257	POPPET	2			
46	50281258	PLUG	2			
47	50281259	SPRING	2			
48	50288793	RELIEF VALVE ASSY	2			
49	50281260	O-RING AS568-916	2			
50	50281261	RING,BACK-UP	2			

Z80 - COMPACT EXCAVATOR

FIG. 101 - ACCUMULATOR

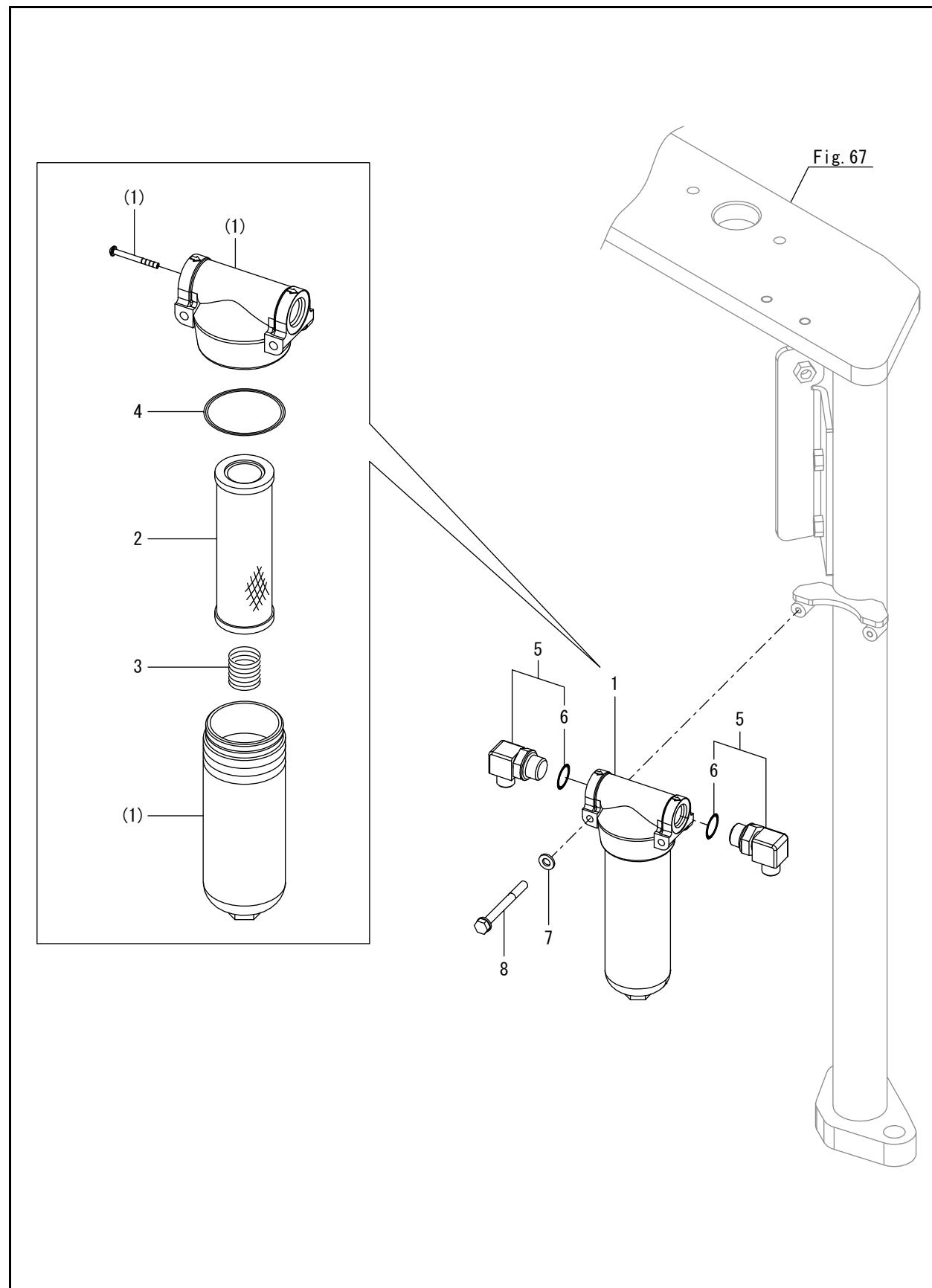


Z80 - COMPACT EXCAVATOR
FIG. 101 - ACCUMULATOR

Ref. No.	Part No.	Description	Ref. No.
1	50288794	ACCUMULATOR	1
2	50288795	CLAMP	1
3	50281014	CONNECTOR	1
4	50282534	BOLT M 8X 20	2
5	50282609	O RING	1

Z80 - COMPACT EXCAVATOR

FIG. 102 - LINE FILTER

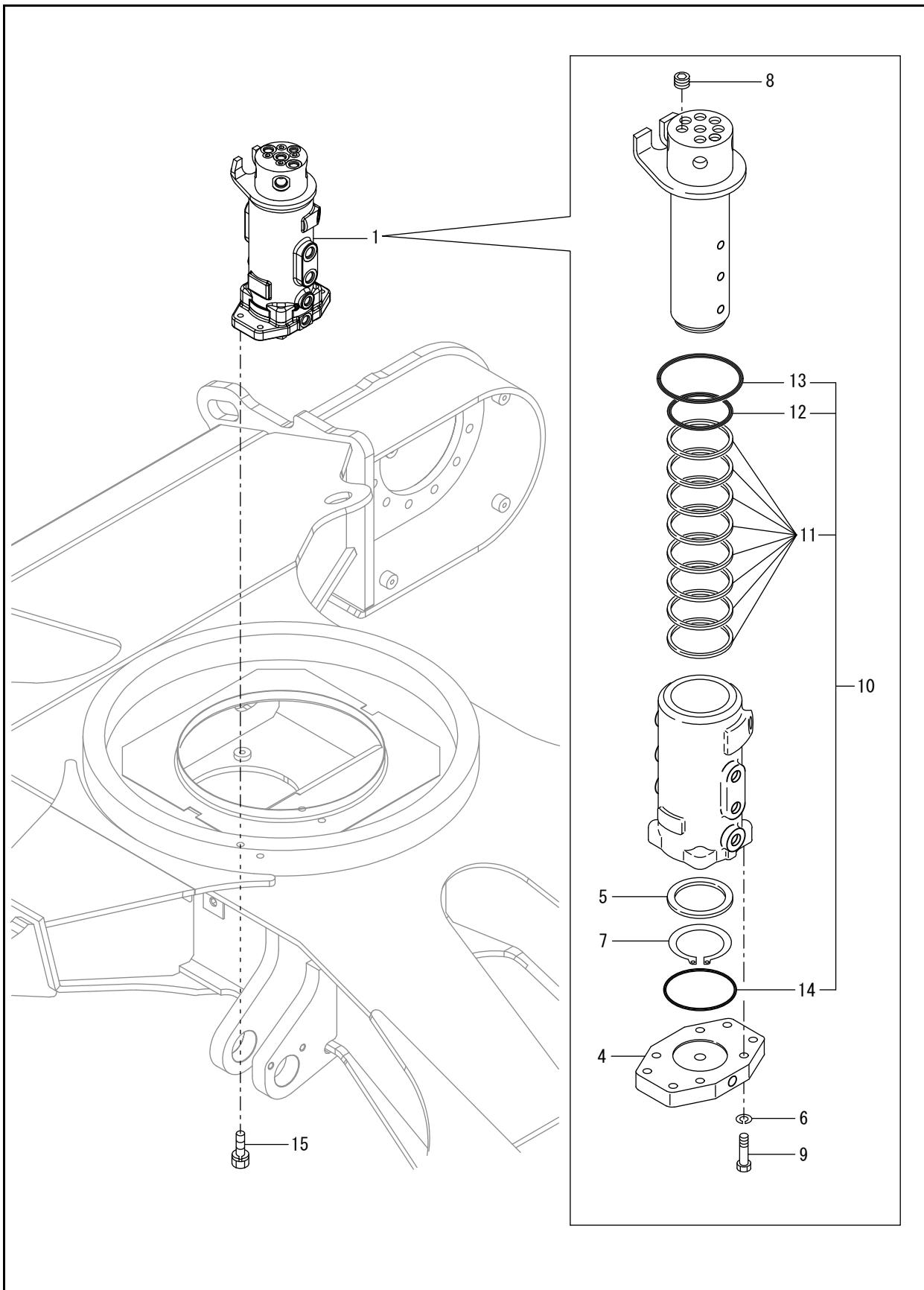


Z80 - COMPACT EXCAVATOR
FIG. 102 - LINE FILTER

Ref. No.	Part No.	Description	Ref. No.
1	50288798	LINE FILTER ASSY	1
2	50288799	LINE FILTER ELEMENT	1
3	50288800	SPRING	1
4	50288801	O-RING	1
5	50280850	ELBOW 3/8-1/2	2
6	50282474	O-RING 1B P-18.0	2
7	50282379	WASHER 6, POLISHED	2
8	50288872	BOLT M6X 60	2

Z80 - COMPACT EXCAVATOR

FIG. 103 - SWIVEL JOINT



Z80 - COMPACT EXCAVATOR
FIG. 103 - SWIVEL JOINT

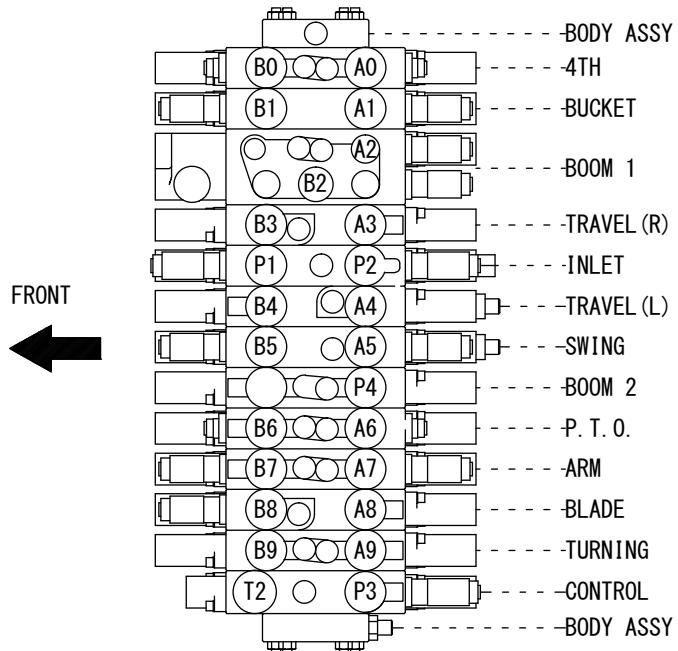
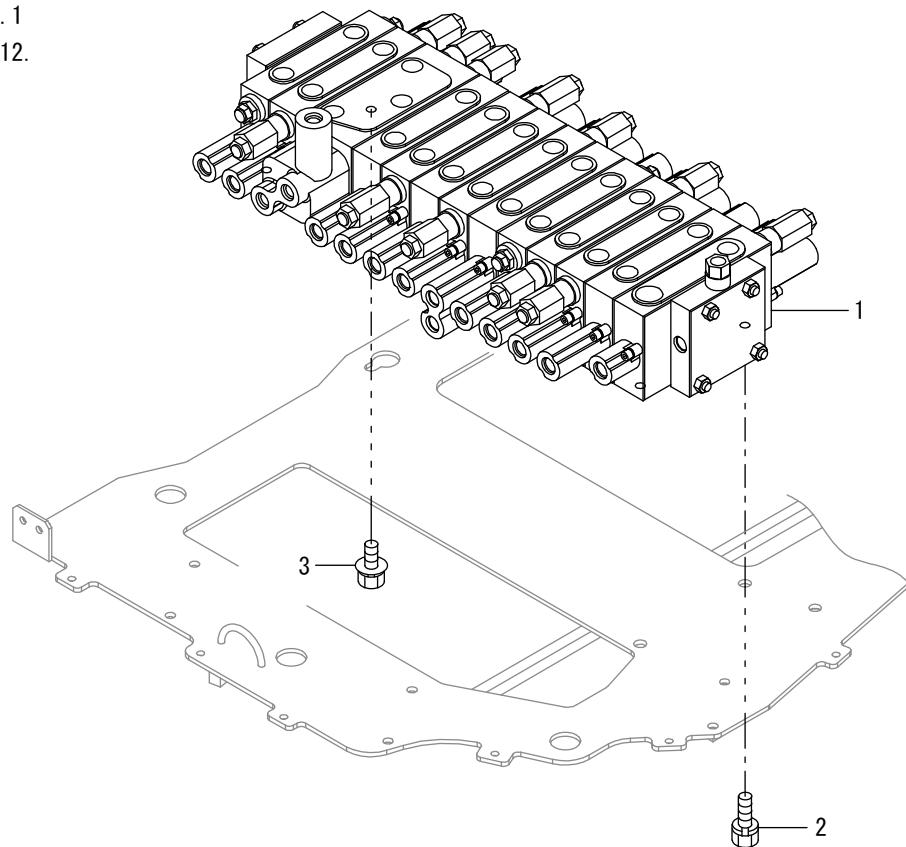
Ref. No.	Part No.	Description	Ref. No.
1	50288250	SWIVEL JOINT ASSY	1
4	50288253	FLANGE	1
5	50288254	SPACER	1
6	50282393	SPRING WASHER 10	4
7	50288865	SNAP RING	1
8	425-34728	PLUG PT 3/8	4
9	50288874	BOLT 10.910X 40	4
10	50288256	SEAL KIT	1
11	50288255	SEAL	8
12	50288868	O-RING	1
13	50288869	O-RING	1
14	50288871	O-RING	1
15	50282526	BOLT M12X 40	4

Z80 - COMPACT EXCAVATOR
FIG. 104 - CONTROL VALVE (1/9)

CONTROL VALVE ASSY

Fig. 104 Ref. No. 1

INC. Fig. 105~112.

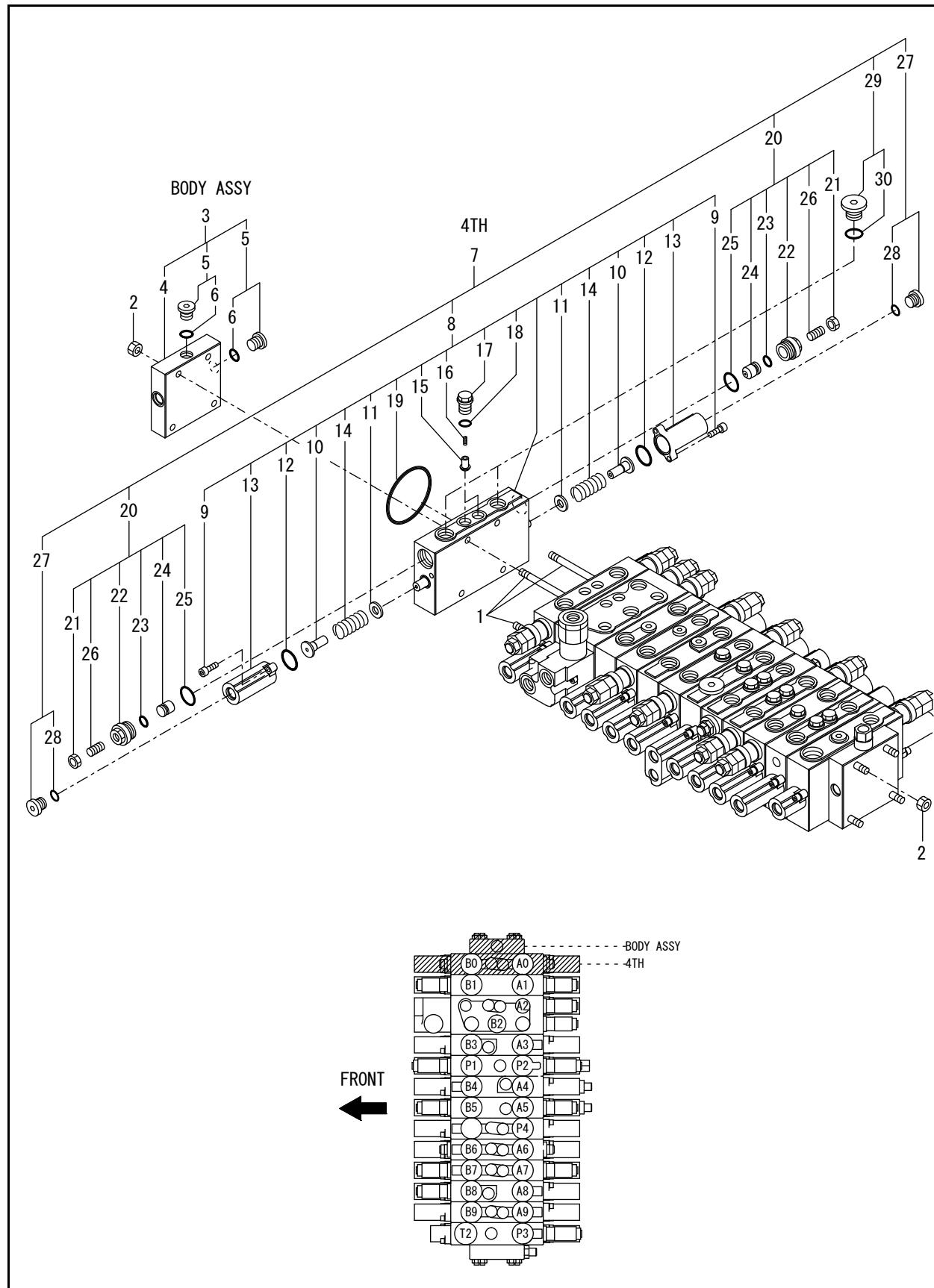


Z80 - COMPACT EXCAVATOR
FIG. 104 - CONTROL VALVE (1/9)

Ref. No.	Part No.	Description	Ref. No.
1	50288802	CONTROL VALVE ASSY	1
2	50282514	BOLT M10X 16	2
3	50282558	BOLT M10X 12 PLATED	1

Z80 - COMPACT EXCAVATOR

FIG. 105 - CONTROL VALVE (2/9)

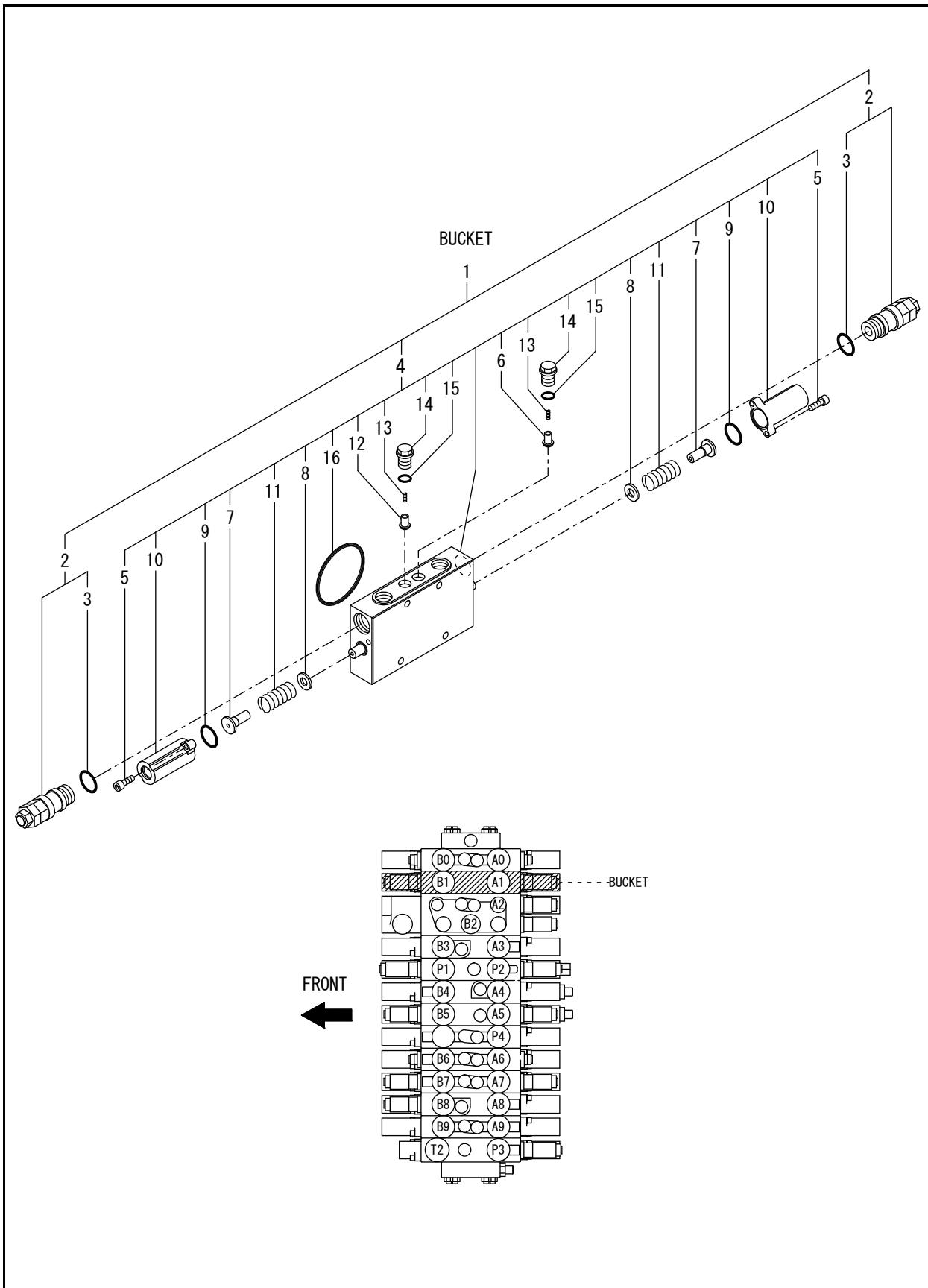


Z80 - COMPACT EXCAVATOR
FIG. 105 - CONTROL VALVE (2/9)

Ref. No.	Part No.	Description	Ref. No.
1	50281864	TIE ROD	4
2	50281004	NUT	8
3	50281907	BODY ASSY	1
4	50281204	BODY	1
5	50280963	PLUG ASSY	2
6	50282470	O-RING 1B P-11.0	2
7	50281911	SECTION ASSY, 4TH	1
8	50281912	SECTION, 4TH	1
9	50280839	BOLT, SOCKET HEAD	4
10	50281202	SEAT, SPRING	2
11	50280908	SEAT, SPRING	2
12	50280840	O-RING	2
13	50281080	CAP	2
14	50281081	SPRING	2
15	50281082	POPPET	2
16	50281083	SPRING	2
17	50281084	PLUG	2
18	50281085	PACKING	2
19	186610	O-RING 1A G70.0 NBR	1
20	50301151	VALVE/RELIEF	2
21	50281075	NUT, SHOE	2
22	50281076	PLUG	2
23	50281077	O-RING	2
24	50281078	POPPET, VALVE	2
25	50280781	O-RING	2
26	50281102	SCREW SET	2
27	50280963	PLUG ASSY	2
28	50282470	O-RING 1B P-11.0	2
29	50280965	PLUG	2
30	50282474	O-RING 1B P-18.0	2

Z80 - COMPACT EXCAVATOR

FIG. 106 - CONTROL VALVE (3/9)

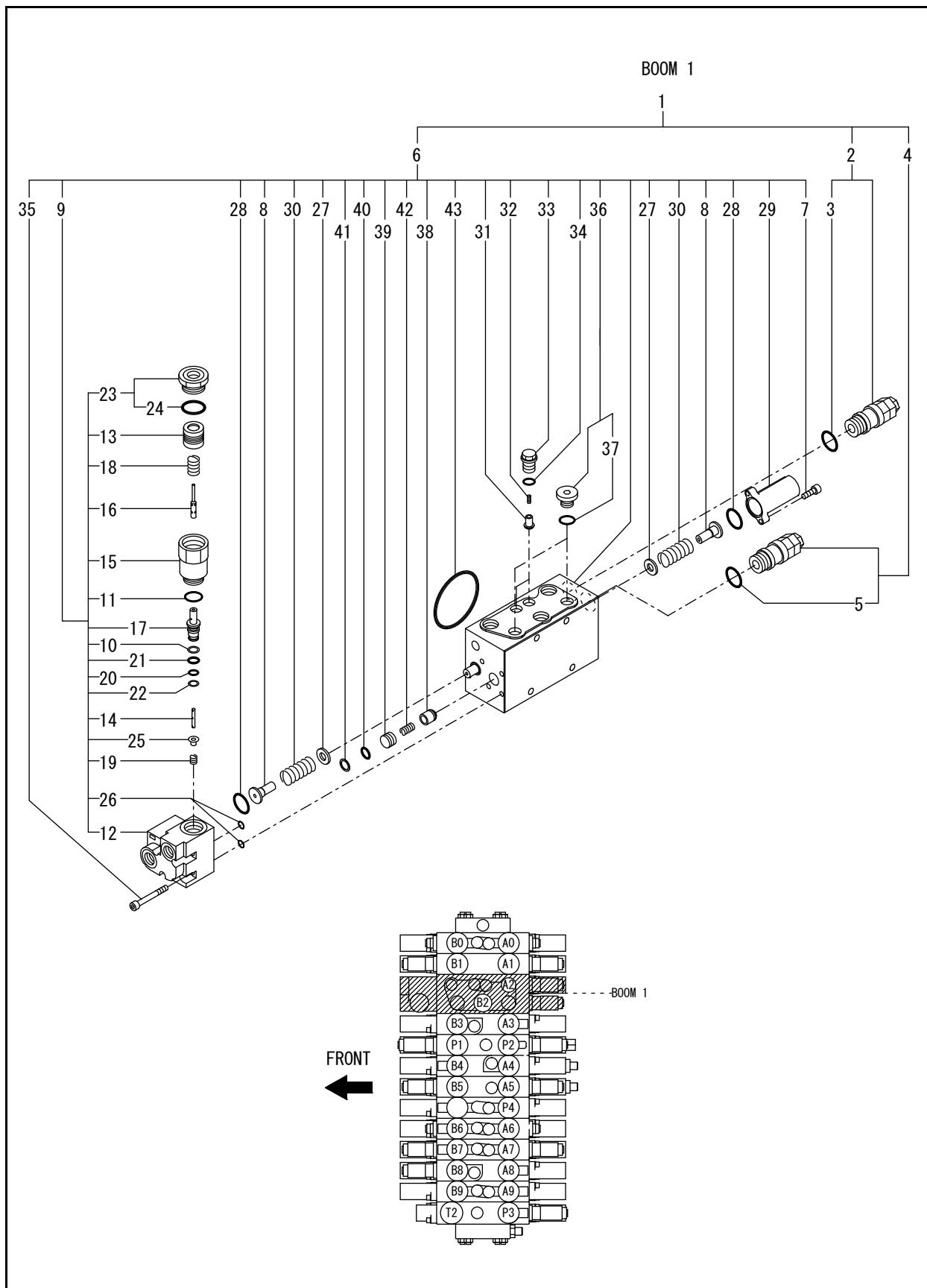


Z80 - COMPACT EXCAVATOR**FIG. 106 - CONTROL VALVE (3/9)**

Ref. No.	Part No.	Description	Ref. No.
1	50282280	SECTION ASSY, BUCKET	1
2	50282281	VALVE RELIEF 29.5/50	2
3	50280781	O-RING	2
4	50282282	SECTION, BUCKET	1
5	50280839	BOLT, SOCKET HEAD	4
6	50281203	POPPET	1
7	50281202	SEAT, SPRING	2
8	50280908	SEAT, SPRING	2
9	50280840	O-RING	2
10	50281080	CAP	2
11	50281081	SPRING	2
12	50281082	POPPET	1
13	50281083	SPRING	2
14	50281084	PLUG	2
15	50281085	PACKING	2
16	186610	O-RING 1A G70.0 NBR	1

Z80 - COMPACT EXCAVATOR

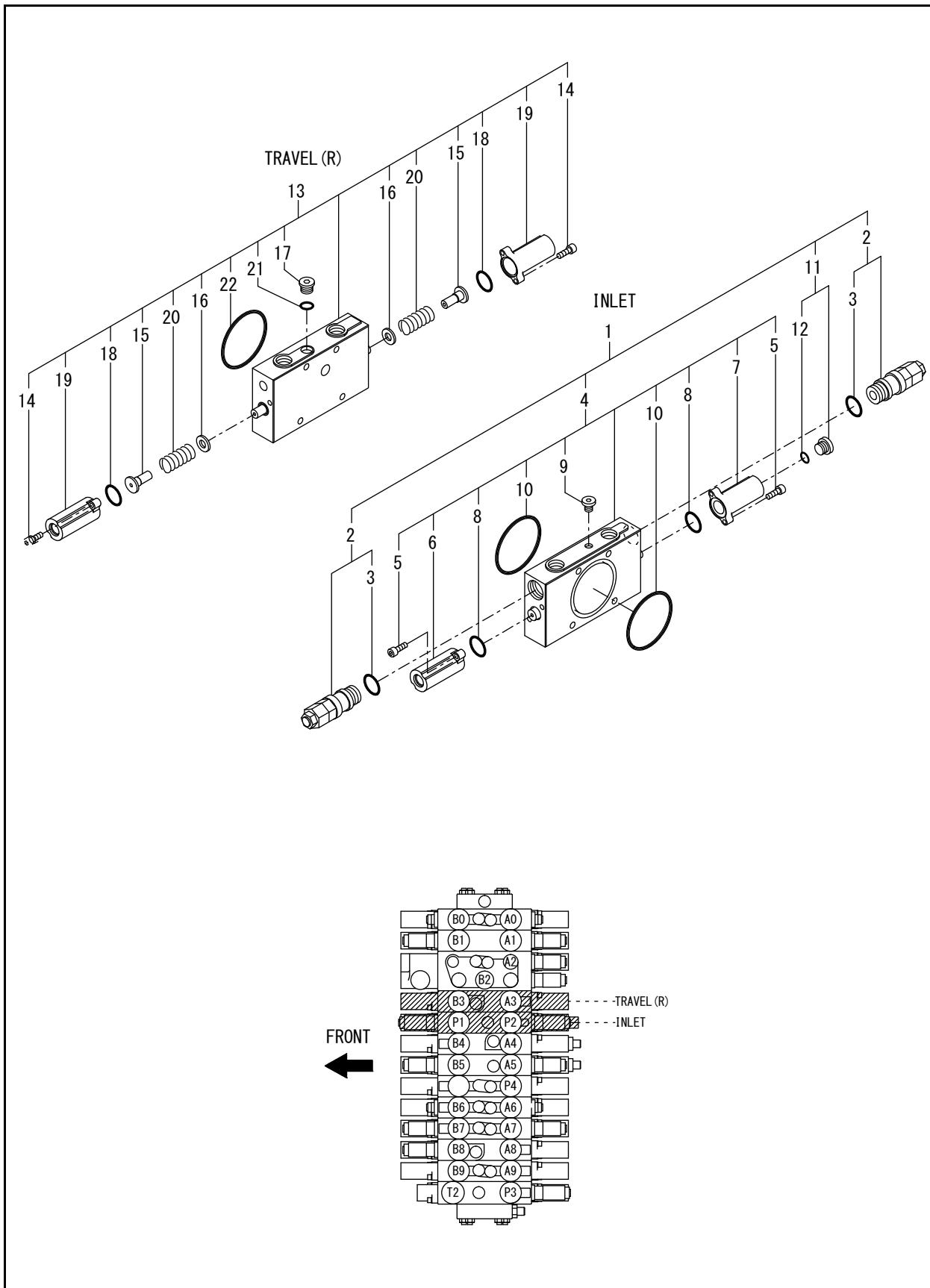
FIG. 107 - CONTROL VALVE (4/9)



Z80 - COMPACT EXCAVATOR
FIG. 107 - CONTROL VALVE (4/9)

Ref. No.	Part No.	Description	Ref. No.
1	50288805	BOOM SECTION ASSY	1
2	50282281	VALVE RELIEF 29.5/50	1
3	50280781	O-RING	1
4	50282284	VALVE RELIEF 29.5/50	1
5	50280781	O-RING	1
6	50288806	BOOM SECTION	1
7	50280839	BOLT, SOCKET HEAD	2
8	50281202	SEAT, SPRING	2
9	50281221	ANTI-DRIFT VALVE	1
10	50281343	RING	1
11	50280781	O-RING	1
12	50281222	BODY	1
13	50281223	PISTON	1
14	50281092	POPPET	1
15	50281093	PLUG	1
16	50281094	SPOOL	1
17	50281095	SLEEVE	1
18	50281096	SPRING	1
19	50281097	SPRING	1
20	50281098	PACKING	1
21	50281099	PACKING	1
22	50281100	BACK UP RING	1
23	50280967	PLUG	1
24	50281001	O-RING	1
25	50281101	SEAT, SPRING	1
26	50282467	O-RING 1B P-7.0	2
27	50280908	SEAT, SPRING	2
28	50280840	O-RING	2
29	50281080	CAP	1
30	50281081	SPRING	2
31	50281082	POPPET	2
32	50281083	SPRING	2
33	50281084	PLUG	2
34	50281085	PACKING	2
35	50281087	BOLT, SOCKET HEAD	5
36	50280964	PLUG	2
37	50288156	O-RING	2
38	50281088	POPPET	1
39	50281089	SPACER	1
40	50281090	O-RING	1
41	50281091	RING, BACK-UP	1
42	50280966	SPRING	1
43	186610	O-RING 1A G70.0 NBR	1

Z80 - COMPACT EXCAVATOR
FIG. 108 - CONTROL VALVE (5/9)

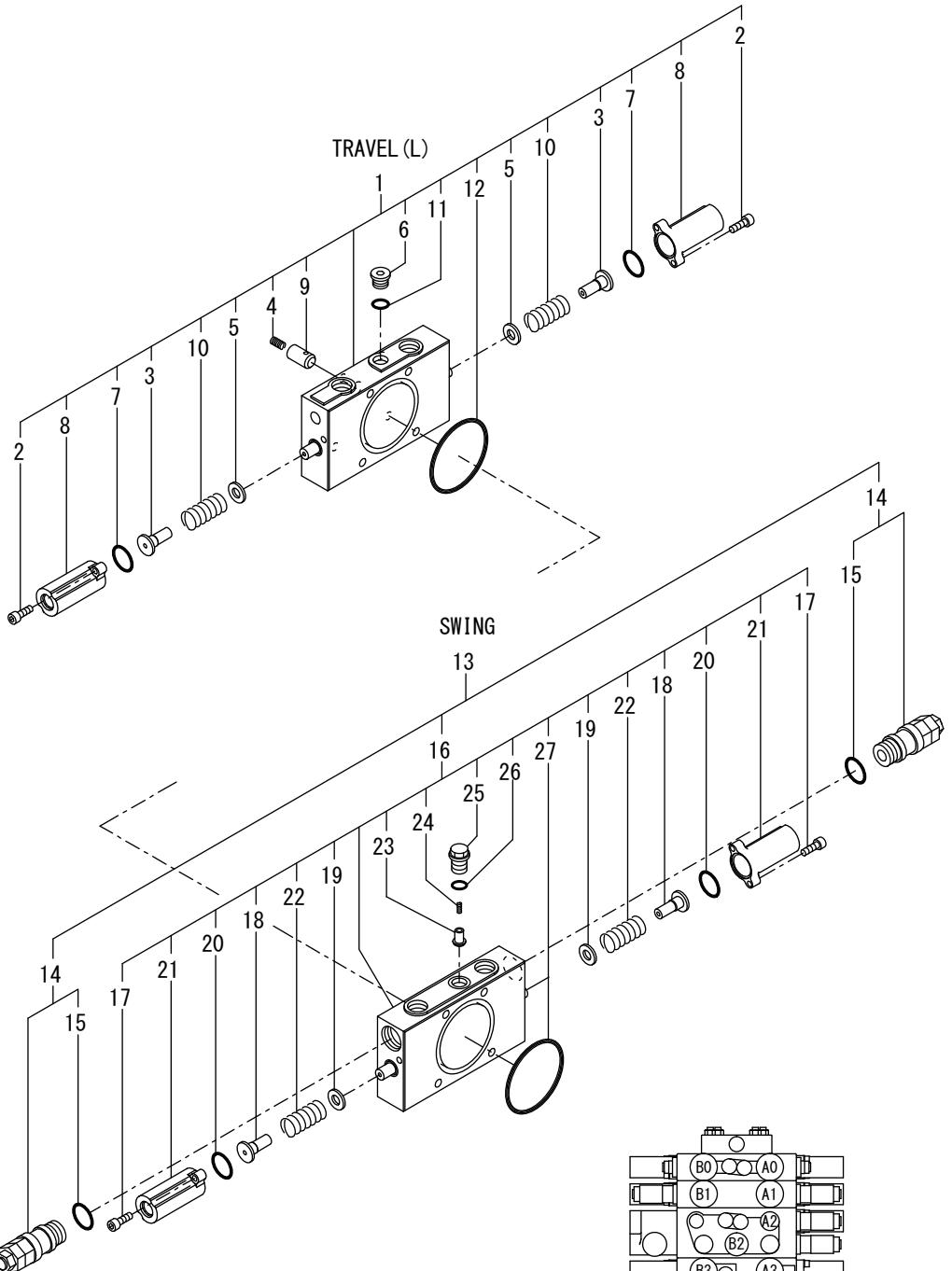


Z80 - COMPACT EXCAVATOR
FIG. 108 - CONTROL VALVE (5/9)

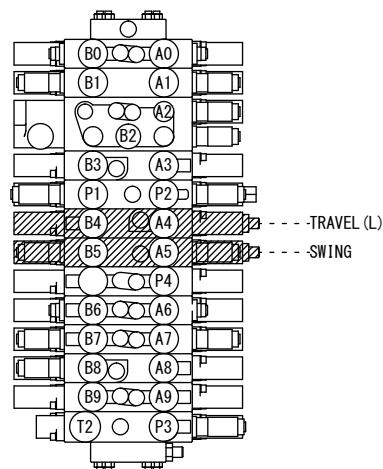
Ref. No.	Part No.	Description	Ref. No.
1	50282278	INLET SECTION ASSY	1
2	50282279	VALVE,RELIEF 25.7/30	2
3	50280781	O-RING	2
4	50281908	INLET SECTION	1
5	50280839	BOLT, SOCKET HEAD	4
6	50281909	CAP ASSY	1
7	50281910	CAP	1
8	50280840	O-RING	2
9	50281005	PLUG	1
10	186610	O-RING 1A G70.0 NBR	2
11	50280963	PLUG ASSY	1
12	50282470	O-RING 1B P-11.0	1
13	50282286	SECTION,TRAVEL R	1
14	50280839	BOLT, SOCKET HEAD	4
15	50281202	SEAT,SPRING	2
16	50280908	SEAT, SPRING	2
17	50281913	PLUG	1
18	50280840	O-RING	2
19	50281080	CAP	2
20	50281081	SPRING	2
21	50281085	PACKING	1
22	186610	O-RING 1A G70.0 NBR	1

Z80 - COMPACT EXCAVATOR

FIG. 109 - CONTROL VALVE (6/9)



FRONT

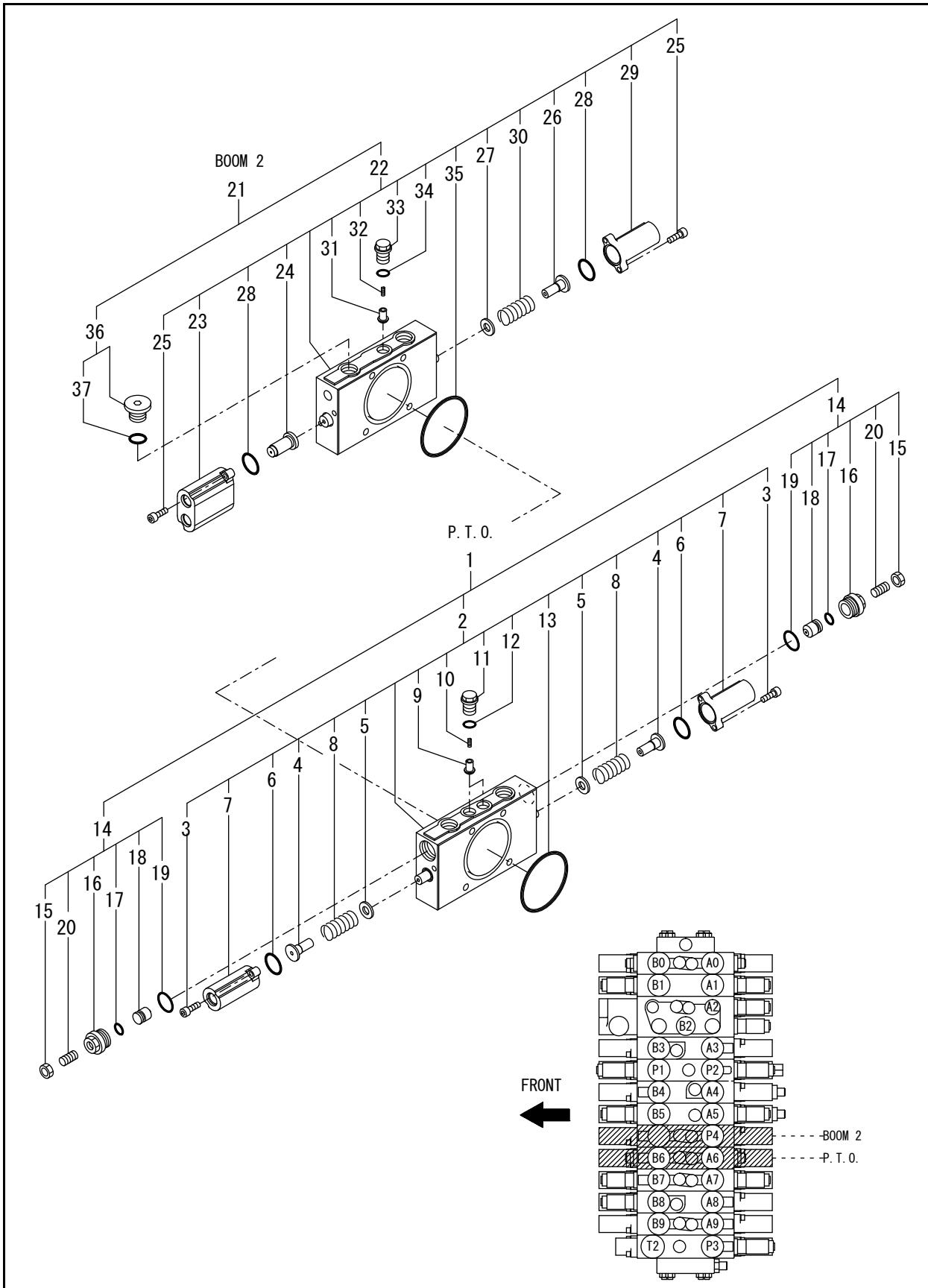


Z80 - COMPACT EXCAVATOR
FIG. 109 - CONTROL VALVE (6/9)

Ref. No.	Part No.	Description	Ref. No.
1	50282287	SECTION,TRAVEL L	1
2	50280839	BOLT, SOCKET HEAD	4
3	50281202	SEAT,SPRING	2
4	50280780	SPRING	1
5	50280908	SEAT, SPRING	2
6	50281913	PLUG	1
7	50280840	O-RING	2
8	50281080	CAP	2
9	50280962	POPPET, VALVE	1
10	50281081	SPRING	2
11	50281085	PACKING	1
12	186610	O-RING 1A G70.0 NBR	1
13	50282288	SECTION,SWING ASSY	1
14	50282281	VALVE RELIEF 29.5/50	2
15	50280781	O-RING	2
16	50281914	SECTION,SWING	1
17	50280839	BOLT, SOCKET HEAD	4
18	50281202	SEAT,SPRING	2
19	50280908	SEAT, SPRING	2
20	50280840	O-RING	2
21	50281080	CAP	2
22	50281081	SPRING	2
23	50281082	POPPET	1
24	50281083	SPRING	1
25	50281084	PLUG	1
26	50281085	PACKING	1
27	186610	O-RING 1A G70.0 NBR	1

Z80 - COMPACT EXCAVATOR

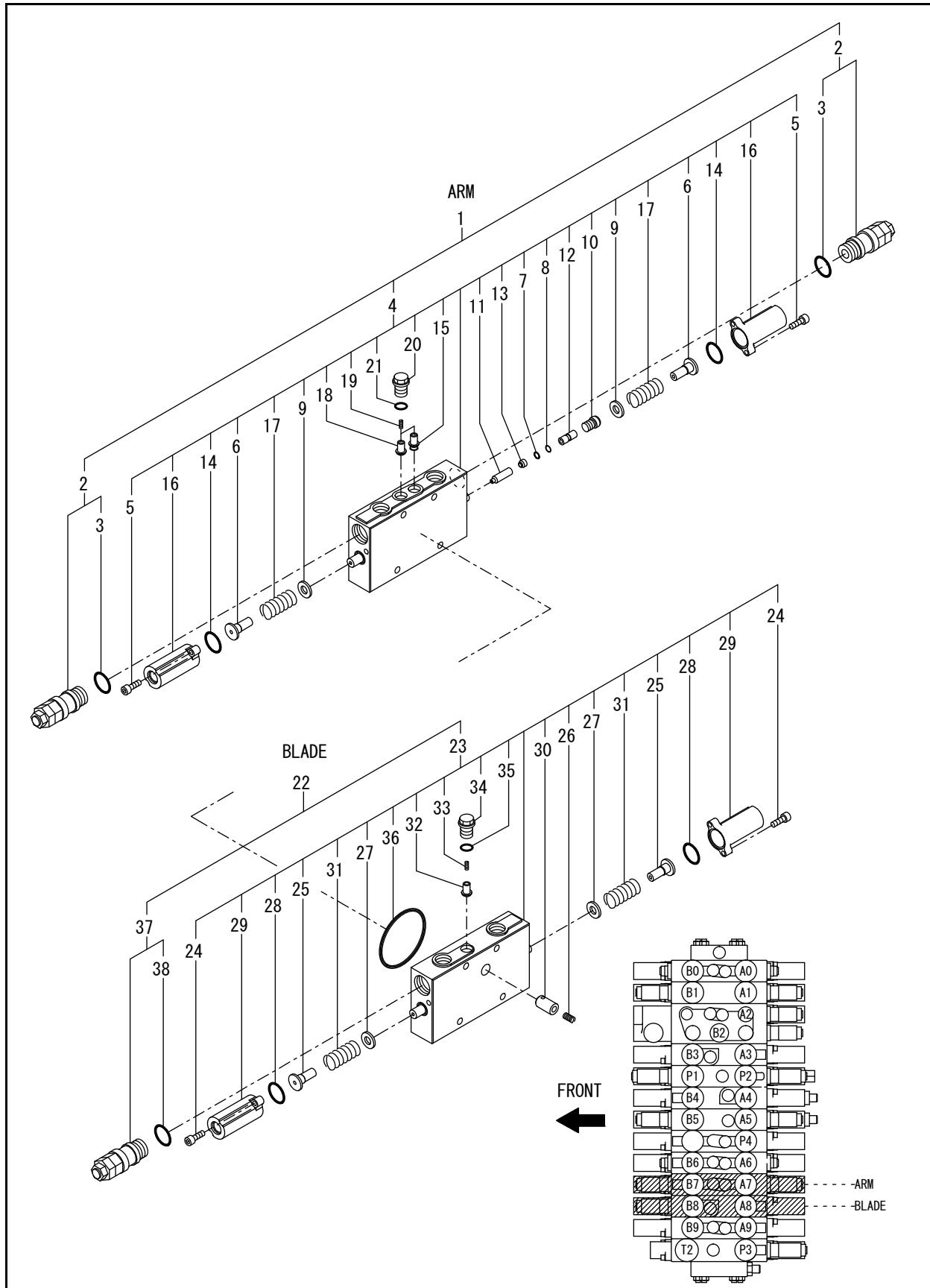
FIG. 110 - CONTROL VALVE (7/9)



Z80 - COMPACT EXCAVATOR
FIG. 110 - CONTROL VALVE (7/9)

Ref. No.	Part No.	Description	Ref. No.
1	50281858	PTO SECTION ASSY	1
2	50281859	PTO SECTION	1
3	50280839	BOLT, SOCKET HEAD	4
4	50281202	SEAT,SPRING	2
5	50280908	SEAT, SPRING	2
6	50280840	O-RING	2
7	50281080	CAP	2
8	50281081	SPRING	2
9	50281082	POPPET	2
10	50281083	SPRING	2
11	50281084	PLUG	2
12	50281085	PACKING	2
13	186610	O-RING 1A G70.0 NBR	1
14	50301151	VALVE/RELIEF	2
15	50281075	NUT, SHOE	2
16	50281076	PLUG	2
17	50281077	O-RING	2
18	50281078	POPPET, VALVE	2
19	50280781	O-RING	2
20	50281102	SCREW SET	2
21	50281915	SECTION ASSY, BOOM 2	1
22	50281916	SECTION, BOOM 2	1
23	50281856	CAP	1
24	50281857	PISTON	1
25	50280839	BOLT, SOCKET HEAD	4
26	50281202	SEAT,SPRING	1
27	50280908	SEAT, SPRING	1
28	50280840	O-RING	2
29	50281080	CAP	1
30	50281081	SPRING	1
31	50281082	POPPET	1
32	50281083	SPRING	1
33	50281084	PLUG	1
34	50281085	PACKING	1
35	186610	O-RING 1A G70.0 NBR	1
36	50280965	PLUG	1
37	50282474	O-RING 1B P-18.0	1

Z80 - COMPACT EXCAVATOR
FIG. 111 - CONTROL VALVE (8/9)

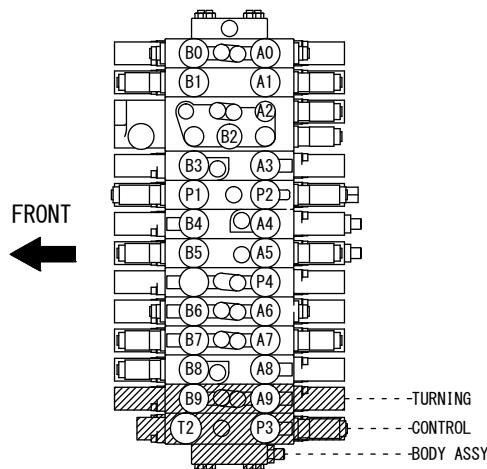
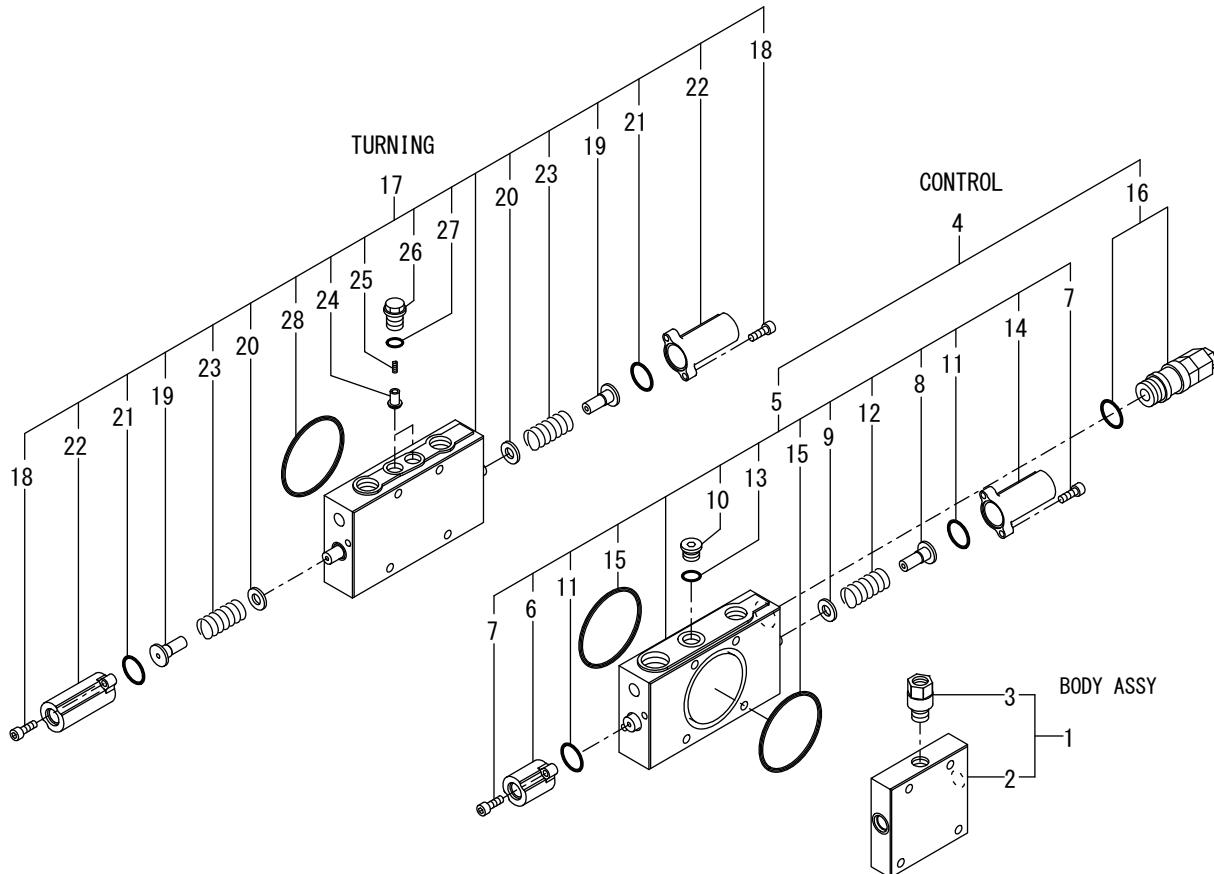


Z80 - COMPACT EXCAVATOR
FIG. 111 - CONTROL VALVE (8/9)

Ref. No.	Part No.	Description	Ref. No.
1	50288807	ARM SECTION ASSY	1
2	50282281	VALVE RELIEF 29.5/50	2
3	50280781	O-RING	2
4	50288808	ARM SECTION	1
5	50280839	BOLT, SOCKET HEAD	4
6	50281202	SEAT, SPRING	2
7	50288234	O-RING	1
8	50288235	RING	1
9	50280908	SEAT, SPRING	2
10	50288809	PLUG	1
11	50288810	POPPET SPOOL	1
12	50288811	SPACER	1
13	50288812	SPRING	1
14	50280840	O-RING	2
15	50286590	POPPET VALVE	1
16	50281080	CAP	2
17	50281081	SPRING	2
18	50281082	POPPET	1
19	50281083	SPRING	2
20	50281084	PLUG	2
21	50281085	PACKING	2
22	50282292	SECTION ASSY, BLADE	1
23	50281860	SECTION, BLADE	1
24	50280839	BOLT, SOCKET HEAD	4
25	50281202	SEAT, SPRING	2
26	50280780	SPRING	1
27	50280908	SEAT, SPRING	2
28	50280840	O-RING	2
29	50281080	CAP	2
30	50280962	POPPET, VALVE	1
31	50281081	SPRING	2
32	50281082	POPPET	1
33	50281083	SPRING	1
34	50281084	PLUG	1
35	50281085	PACKING	1
36	186610	O-RING 1A G70.0 NBR	1
37	50282293	VALVE RELIEF 15/50L	1
38	50280781	O-RING	1

Z80 - COMPACT EXCAVATOR

FIG. 112 - CONTROL VALVE (9/9)

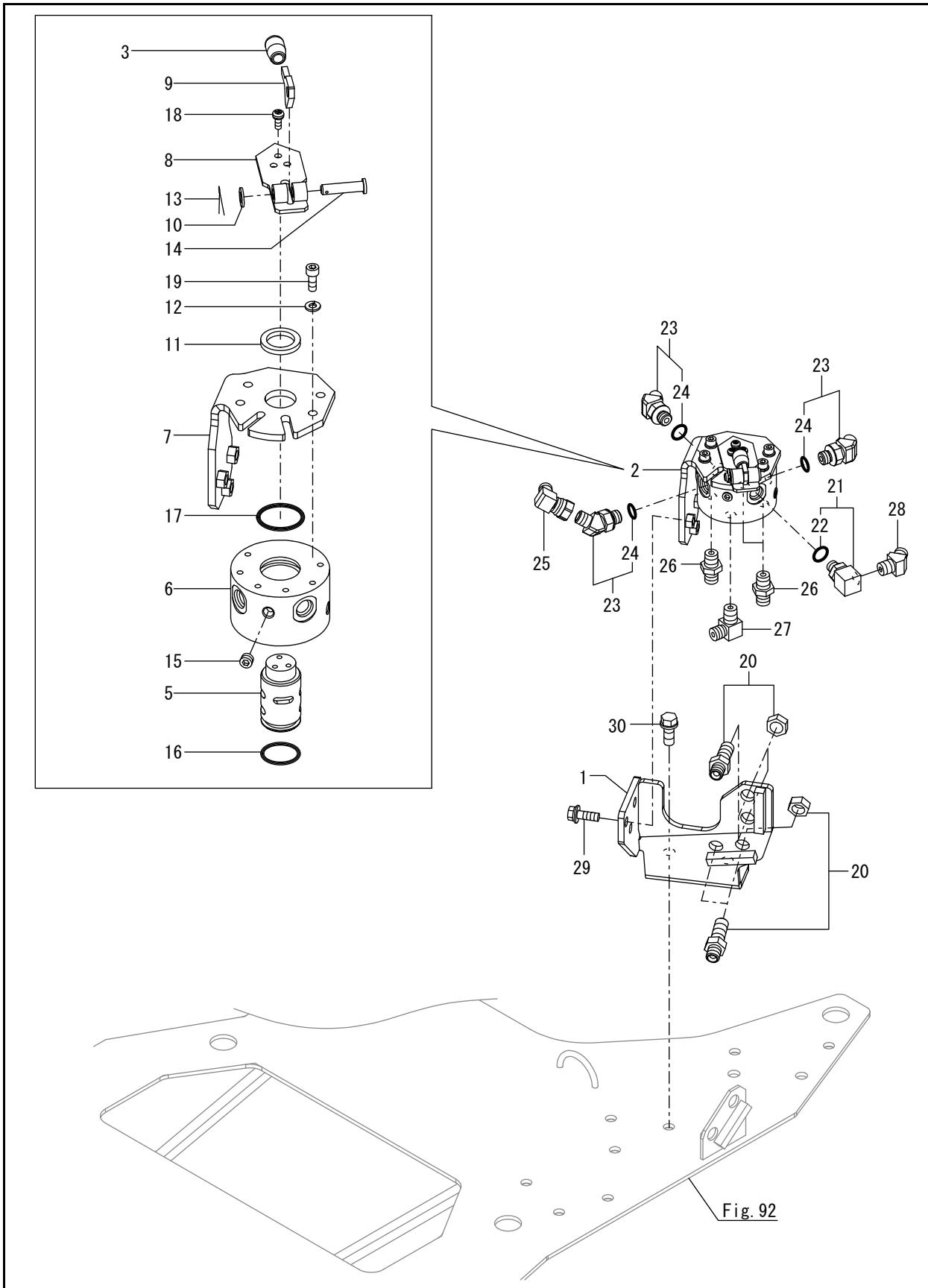


Z80 - COMPACT EXCAVATOR
FIG. 112 - CONTROL VALVE (9/9)

Ref. No.	Part No.	Description	Ref. No.
1	50281863	BODY ASSY	1
2	50281204	BODY	1
3	50281205	PLUG ASSY	1
4	50288803	CONTROL SECTION ASSY	1
5	50281861	SECTION CONTROL	1
6	50281862	CAP ASSY	1
7	50280839	BOLT, SOCKET HEAD	4
8	50281202	SEAT,SPRING	1
9	50280908	SEAT, SPRING	1
10	50281913	PLUG	1
11	50280840	O-RING	2
12	50281081	SPRING	1
13	50281085	PACKING	1
14	50281086	CAP	1
15	186610	O-RING 1A G70.0 NBR	2
16	50288804	RELIEF VALVE	1
17	50282291	SECTION,SWING	1
18	50280839	BOLT, SOCKET HEAD	4
19	50281202	SEAT,SPRING	2
20	50280908	SEAT, SPRING	2
21	50280840	O-RING	2
22	50281080	CAP	2
23	50281081	SPRING	2
24	50281082	POPPET	2
25	50281083	SPRING	2
26	50281084	PLUG	2
27	50281085	PACKING	2
28	186610	O-RING 1A G70.0 NBR	1

Z80 - COMPACT EXCAVATOR

FIG. 113 - 2-WAY VALVE

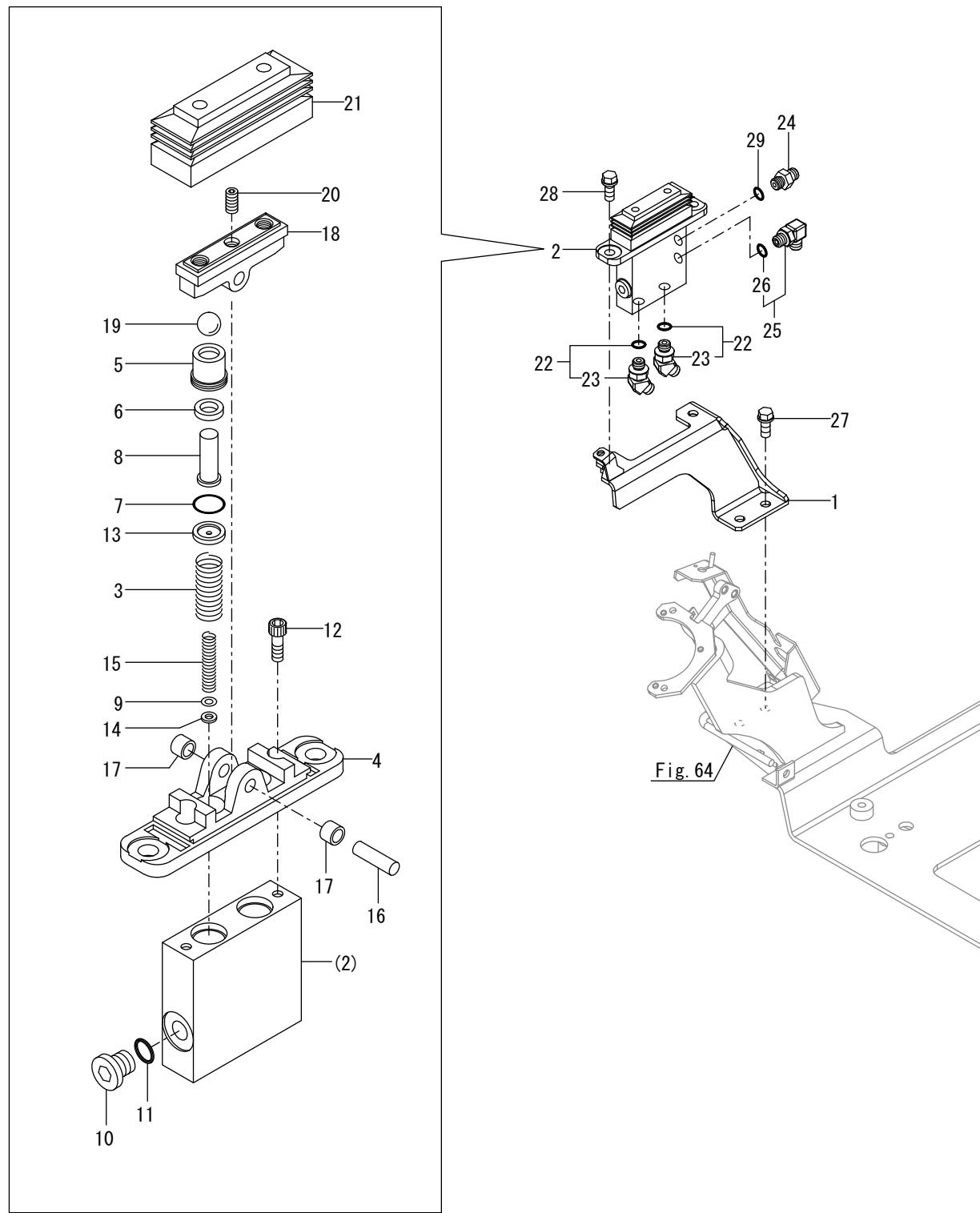


Z80 - COMPACT EXCAVATOR
FIG. 113 - 2-WAY VALVE

Ref. No.	Part No.	Description	Ref. No.
1	50281878	BRACKET ASSY,2WAY	1
2	50281426	VALVE ASSY,2WAY	1
3	50280849	KNOB 6.5X18X35	1
5	50281040	SHAFT	1
6	50281041	BLOCK,VALVE	1
7	50281042	STAY ASSY	1
8	50281427	LEVER	1
9	50281428	PLATE,LOCK	1
10	138515	WASHER 8	1
11	50282384	WASHER 24,POLISHED	1
12	425-34891	SPRING WASHER 6	4
13	50282417	COTTER PIN 2.0X16	1
14	50282421	PIN 8X 30	1
15	50282447	PLUG PT1/8,SCREW	4
16	50282460	O-RING 1A P-25.0	1
17	425-34745	O-RING 1A P-32.0	1
18	425-36271	SCREW M 5 X 12	3
19	50282581	BOLT M 6X 16	4
20	50280841	JOINT	4
21	50280806	ELBOW PF1/4	1
22	50282470	O-RING 1B P-11.0	1
23	50280905	CONNECTOR PF1/4-45	3
24	50282607	PACKING, 11.0	3
25	50281352	CONNECTOR 1/4X1/4	1
26	50282438	JOINT RGI1/4	3
27	50282441	JOINT 90RGI1/4	1
28	50282443	JOINT 45RGI1/4	1
29	50282508	BOLT M 8X 25	3
30	50282516	BOLT W/WASHER M10X25	2

Z80 - COMPACT EXCAVATOR

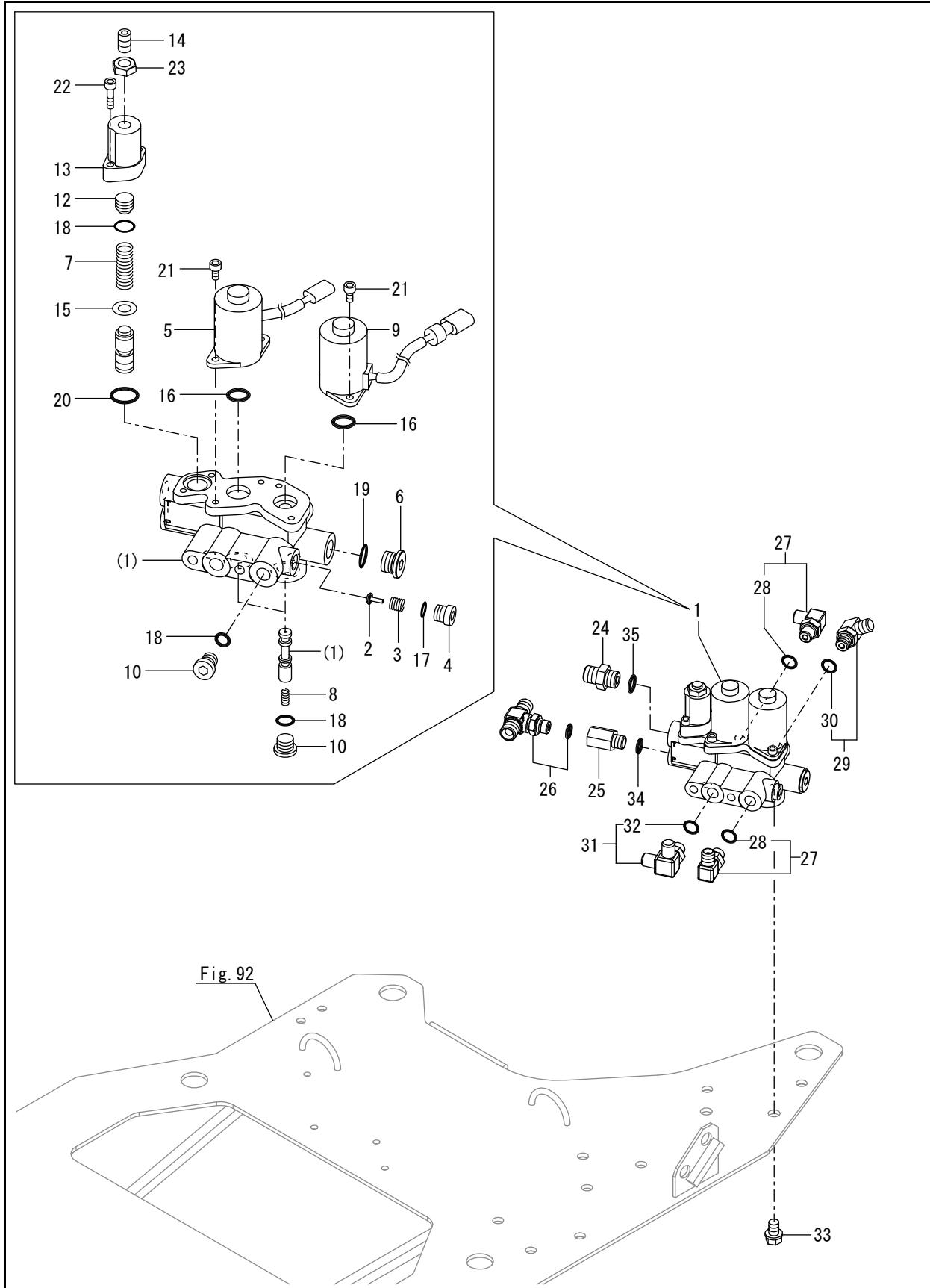
FIG. 114 - BLADE VALVE



Z80 - COMPACT EXCAVATOR
FIG. 114 - BLADE VALVE

Ref. No.	Part No.	Description	Ref. No.
1	50281917	STAY ASSY,BLD VALVE	1
2	50281933	VALVE ASSY	1
3	50281934	SPRING	2
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	50281481	CAM SHAFT	1
17	50281482	BUSHING	2
18	50281483	CAM	1
19	50281484	BALL,STEEL	2
20	50281485	SET SCREW	1
21	50281486	BELLOWS	1
22	50280905	CONNECTOR PF1/4-45	2
23	50282607	PACKING, 11.0	2
24	50280792	JOINT PF1/4	1
25	50280813	CONNECTOR ASSY, 02FF	1
26	50282607	PACKING, 11.0	1
27	50282516	BOLT W/WASHER M10X25	2
28	50282516	BOLT W/WASHER M10X25	2
29	50282607	PACKING, 11.0	1

Z80 - COMPACT EXCAVATOR
FIG. 115 - SOLENOID VALVE (PILOT)

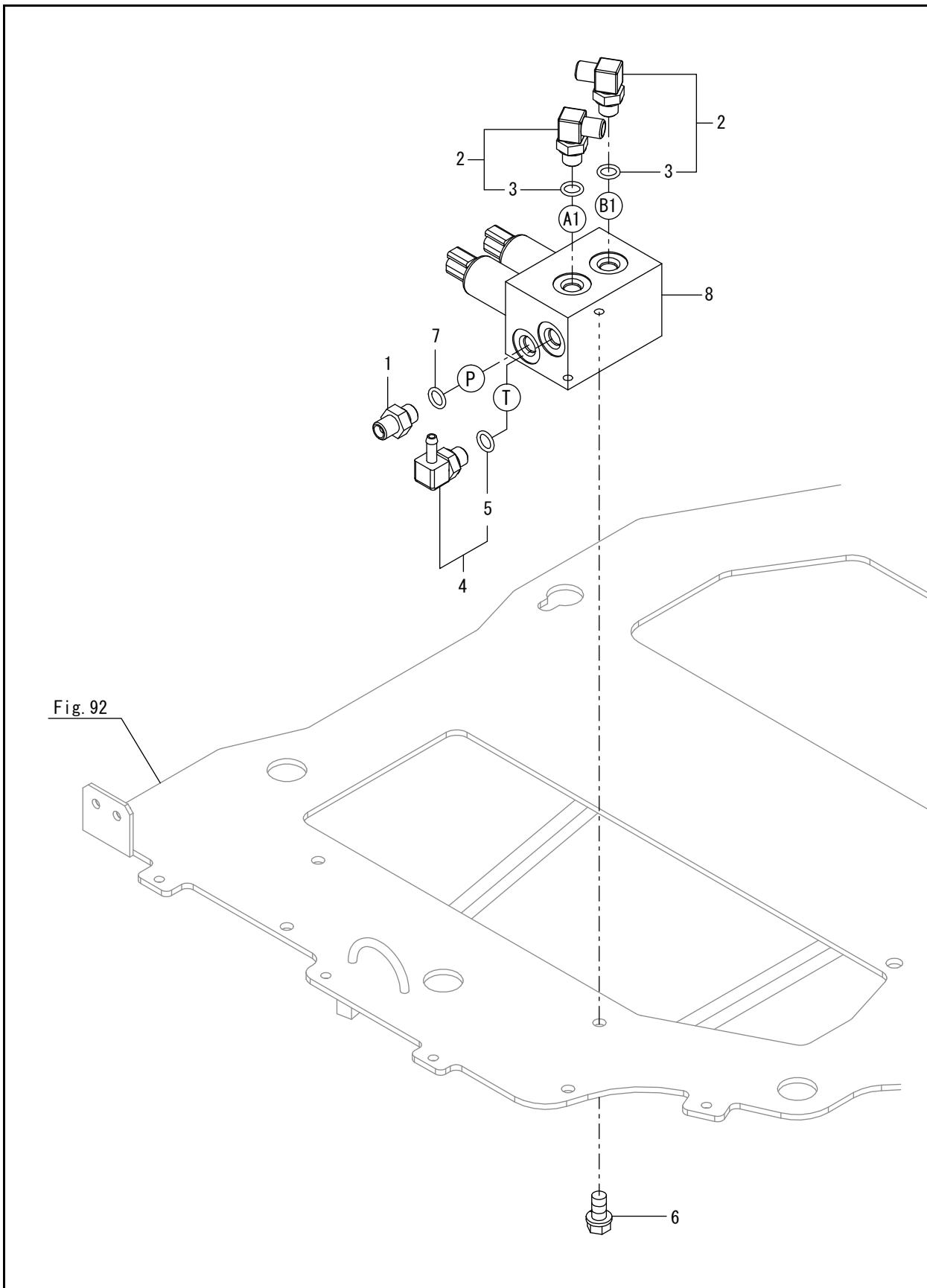


Z80 - COMPACT EXCAVATOR
FIG. 115 - SOLENOID VALVE (PILOT)

Ref. No.	Part No.	Description	Ref. No.
1	50288261	PILOT VALVE ASSY	1
2	50281921	PLUNGER	1
3	50281922	SPRING	1
4	50281923	PLUG	1
5	50281924	SOLENOID	1
6	50288262	PLUG	1
7	50288263	SPRING	1
8	50281465	SPRING,COMPRESSION	2
9	50281466	SOLENOID	1
10	50281467	PLUG,G1/4	3
12	50288264	PLUG	1
13	50288265	VALVE COVER	1
14	50288266	ADJUSTING SCREW	1
15	138515	WASHER 8	1
16	425-34744	O-RING 1A P-16.0	2
17	50282469	O-RING 1B P-10.0	1
18	50282470	O-RING 1B P-11.0	4
19	50282474	O-RING 1B P-18.0	1
20	50282475	O-RING 1B P-20.0	1
21	425-35914	BOLT 5M X 12	4
22	50282580	BOLT, M5X20	2
23	50288876	NUT M10	1
24	50281350	JOINT	1
25	50281007	CONNECTOR	1
26	50288816	TEE CONNECTOR	1
27	50280813	CONNECTOR ASSY, 02FF	2
28	50282607	PACKING, 11.0	2
29	50280813	CONNECTOR ASSY, 02FF	1
30	50282607	PACKING, 11.0	1
31	50281226	ADJUSTABLE ELBOW 1/4	1
32	50282470	O-RING 1B P-11.0	1
33	50282514	BOLT M10X 16	2
34	50282607	PACKING, 11.0	1
35	50282608	O RING P 14.0 HNBR	1

Z80 - COMPACT EXCAVATOR

FIG. 116 - VALVE (P.T.O.)

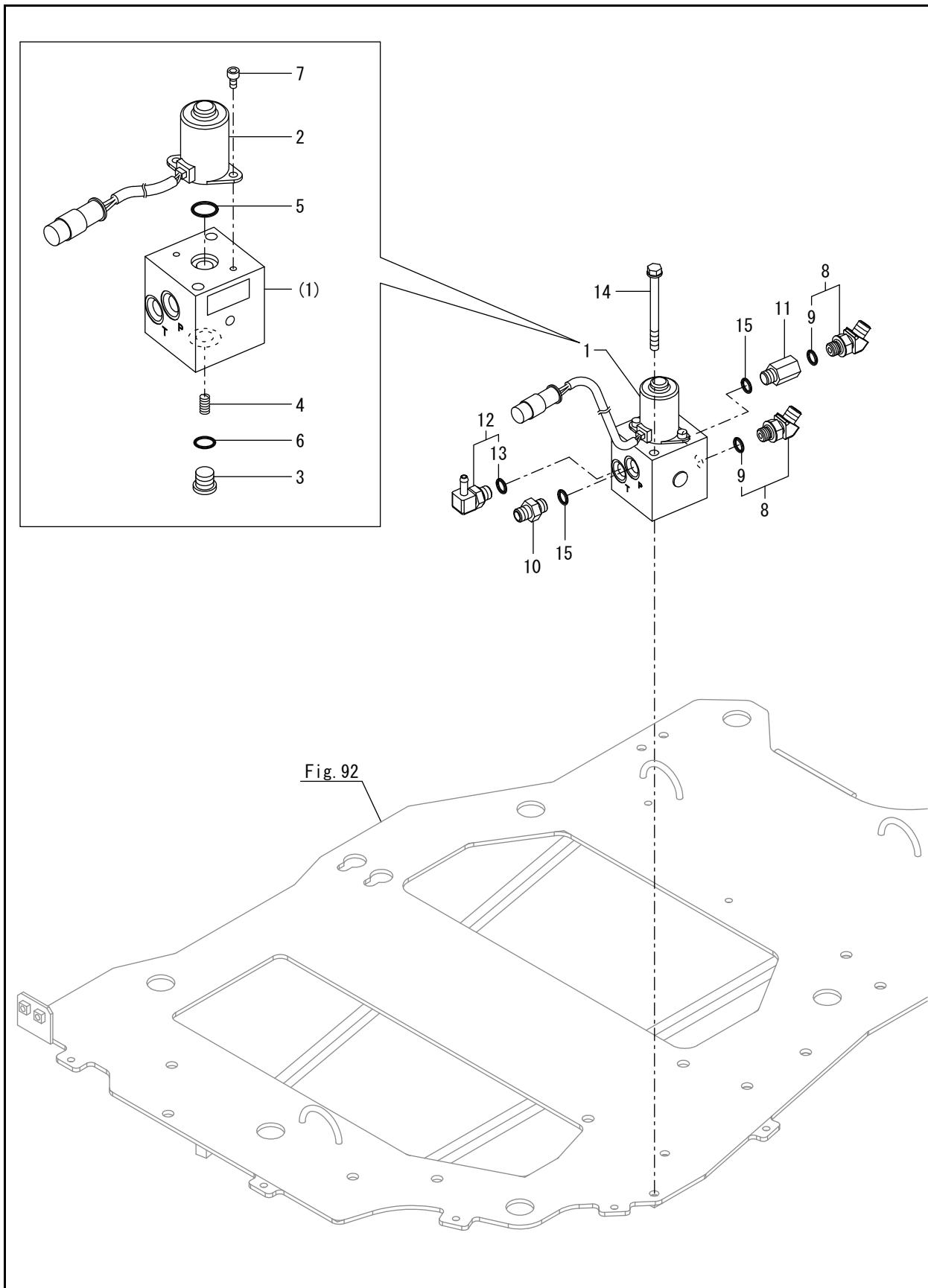


Z80 - COMPACT EXCAVATOR
FIG. 116 - VALVE (P.T.O.)

Ref. No.	Part No.	Description	Ref. No.
1	50280792	JOINT PF1/4	1
2	50280813	CONNECTOR ASSY, 02FF	2
3	50282607	PACKING, 11.0	2
4	50280923	NIPPLE	1
5	50282470	O-RING 1B P-11.0	1
6	50282506	BOLT W/WASHER M8X16	2
7	50282607	PACKING, 11.0	1
8	50288813	PTO VALVE ASSY	1

Z80 - COMPACT EXCAVATOR

FIG. 117 - SOLENOID VALVE (QUICK COUPLER)

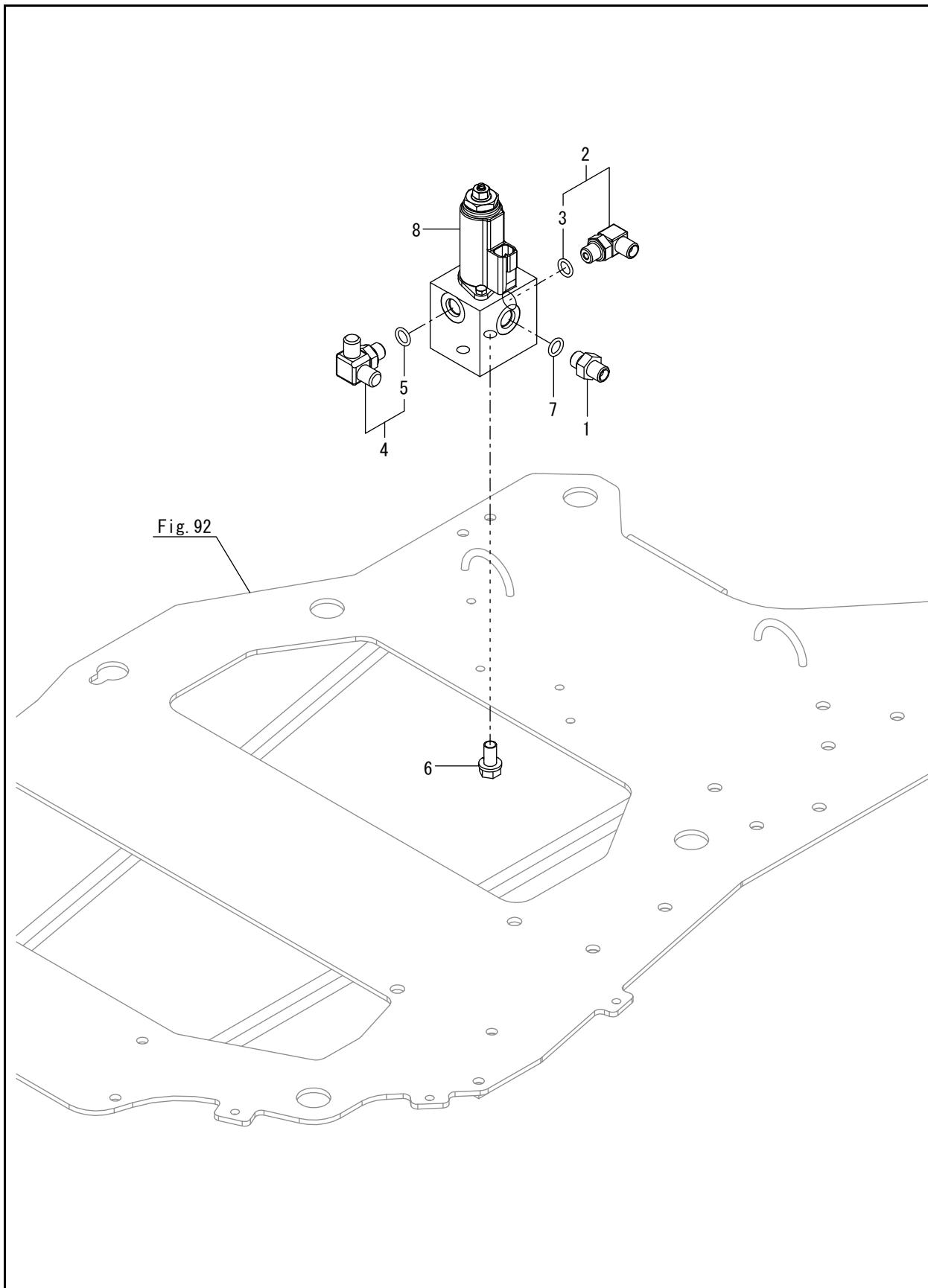


Z80 - COMPACT EXCAVATOR
FIG. 117 - SOLENOID VALVE (QUICK COUPLER)

Ref. No.	Part No.	Description	Ref. No.
1	50281928	VALVE ASSY,Q	1
2	50281929	SOLENOID	1
3	50281930	PLUG G1/4	1
4	50281465	SPRING,COMPRESSION	1
5	425-34744	O-RING 1A P-16.0	1
6	50282470	O-RING 1B P-11.0	1
7	197813	BOLT M5X10	2
8	50280905	CONNECTOR PF1/4-45	2
9	50282607	PACKING, 11.0	2
10	50280792	JOINT PF1/4	1
11	50281007	CONNECTOR	1
12	50280923	NIPPLE	1
13	50282470	O-RING 1B P-11.0	1
14	50282513	BOLT	2
15	50282607	PACKING, 11.0	2

Z80 - COMPACT EXCAVATOR

FIG. 118 - VALVE (ESS)

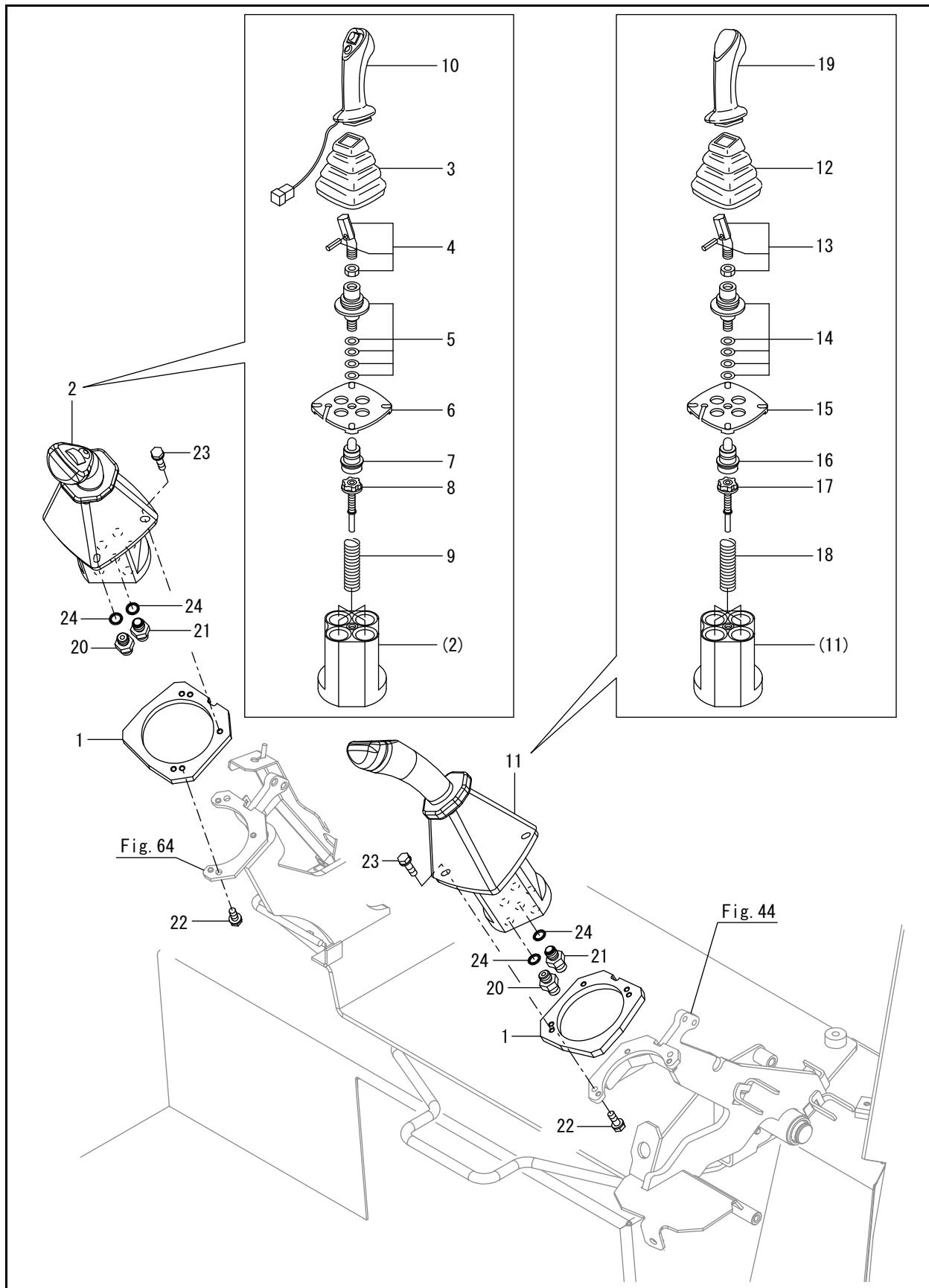


Z80 - COMPACT EXCAVATOR**FIG. 118 - VALVE (ESS)**

Ref. No.	Part No.	Description	Ref. No.
1	50280792	JOINT PF1/4	1
2	50280813	CONNECTOR ASSY, 02FF	1
3	50282607	PACKING, 11.0	1
4	50281226	ADJUSTABLE ELBOW 1/4	1
5	50282470	O-RING 1B P-11.0	1
6	50282506	BOLT W/WASHER M8X16	2
7	50282607	PACKING, 11.0	1
8	50288326	VALVE	1

Z80 - COMPACT EXCAVATOR

FIG. 119 - REMOTE CONTROL VALVE (OPERATION)

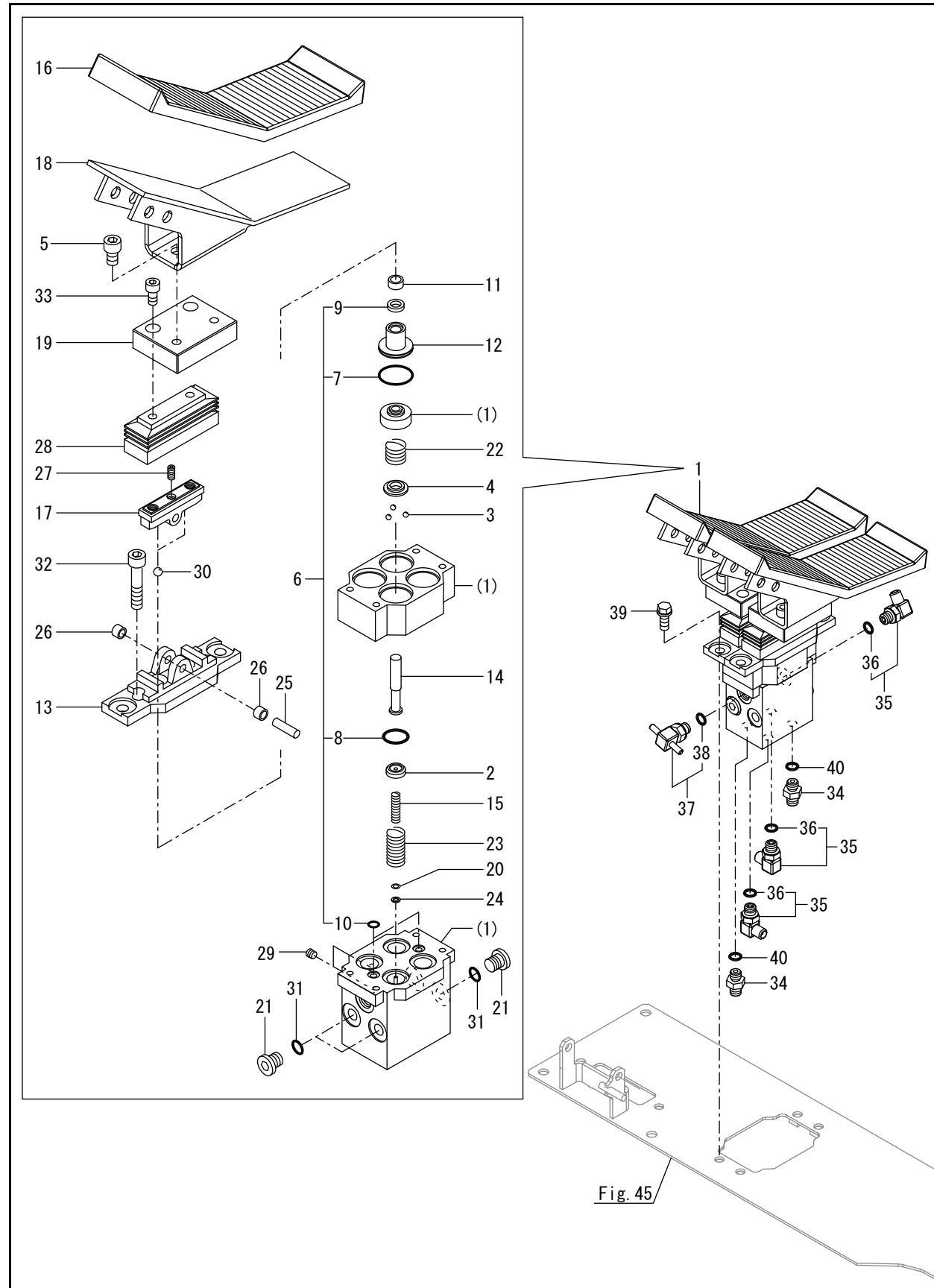


Z80 - COMPACT EXCAVATOR
FIG. 119 - REMOTE CONTROL VALVE (OPERATION)

Ref. No.	Part No.	Description	Ref. No.
1	50282081	SPACER,VALVE	2
2	50288814	RIGHT CONTROL VALVE ASSY	1
3	50281044	BELLOWS	1
4	50281045	COMMAND KIT	1
5	50281150	CARDAN KIT	1
6	50281151	RETAINING PLATE	1
7	50281152	PLUNGER KIT	1
8	50281153	REGULATION KIT	4
9	50281154	SPRING KIT	1
10	50288815	HANDLE ASSY	1
11	50281942	VALVE ASSY,L	1
12	50281044	BELLOWS	1
13	50281045	COMMAND KIT	1
14	50281150	CARDAN KIT	1
15	50281151	RETAINING PLATE	1
16	50281152	PLUNGER KIT	1
17	50281153	REGULATION KIT	4
18	50281154	SPRING KIT	1
19	50281943	HANDLE	1
20	50280792	JOINT PF1/4	10
21	50281106	CONNECTOR PF1/4	2
22	50282531	BOLT M 6X 16	4
23	50282531	BOLT M 6X 16	6
24	50282607	PACKING, 11.0	12

Z80 - COMPACT EXCAVATOR

FIG. 120 - REMOTE CONTROL VALVE (TRAVEL)

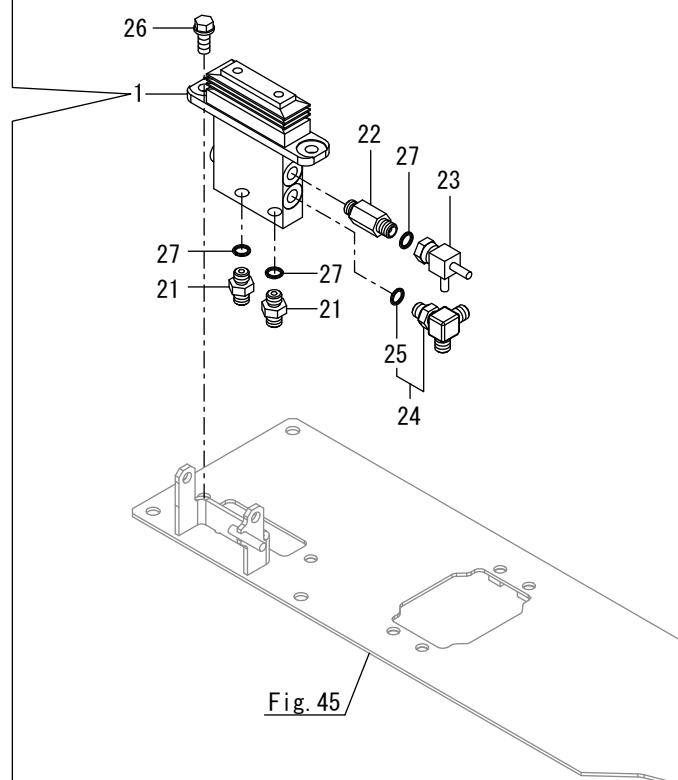
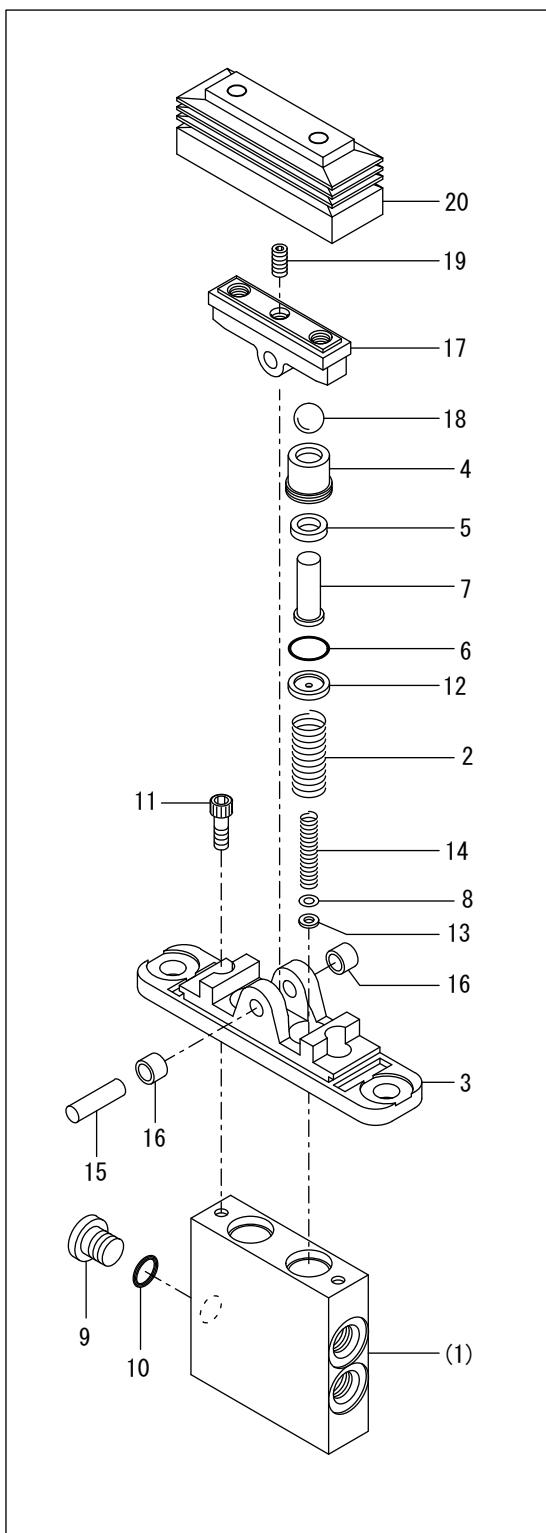


Z80 - COMPACT EXCAVATOR
FIG. 120 - REMOTE CONTROL VALVE (TRAVEL)

Ref. No.	Part No.	Description	Ref. No.
1	50282296	VALVE ASSY,TRAVEL	1
2	50281865	SEAT,SPRING	4
3	50281866	BALL,STEEL	12
4	50281867	SEAT,SPRING	4
5	50281868	BOLT 10X16	4
6	50281869	SEAL KIT SUB	1
7	50281870	O-RING	4
8	50281871	O-RING	4
9	50281471	PACKING	4
10	50282468	O-RING 1B P-8.0	2
11	50281872	GREASE CAP	4
12	50281873	PLUG	4
13	50281874	COVER	2
14	50282297	ROD,PUSH	4
15	50282298	SPRING	4
16	50281935	COVER,PEDAL	2
17	50282299	CAM	2
18	50281936	PEDAL	2
19	50281937	BLOCK	2
20	50281474	SHIM	4
21	50281475	PLUG	3
22	50281938	SPRING	4
23	50281939	SPRING	4
24	50281479	WASHER	4
25	50281481	CAM SHAFT	2
26	50281482	BUSHING	4
27	50281485	SET SCREW	2
28	50281486	BELLOWS	2
29	50281108	PLUG	2
30	50282456	BALL 5/16, STEEL	4
31	50282470	O-RING 1B P-11.0	3
32	50282584	BOLT M 6X 50	4
33	50282585	BOLT, M8X16	4
34	50280792	JOINT PF1/4	2
35	50280813	CONNECTOR ASSY, 02FF	3
36	50282607	PACKING, 11.0	3
37	50281490	NIPPLE G1/4	1
38	50282607	PACKING, 11.0	1
39	50282516	BOLT W/WASHER M10X25	2
40	50282607	PACKING, 11.0	2

Z80 - COMPACT EXCAVATOR

FIG. 121 - REMOTE CONTROL VALVE (SWING)

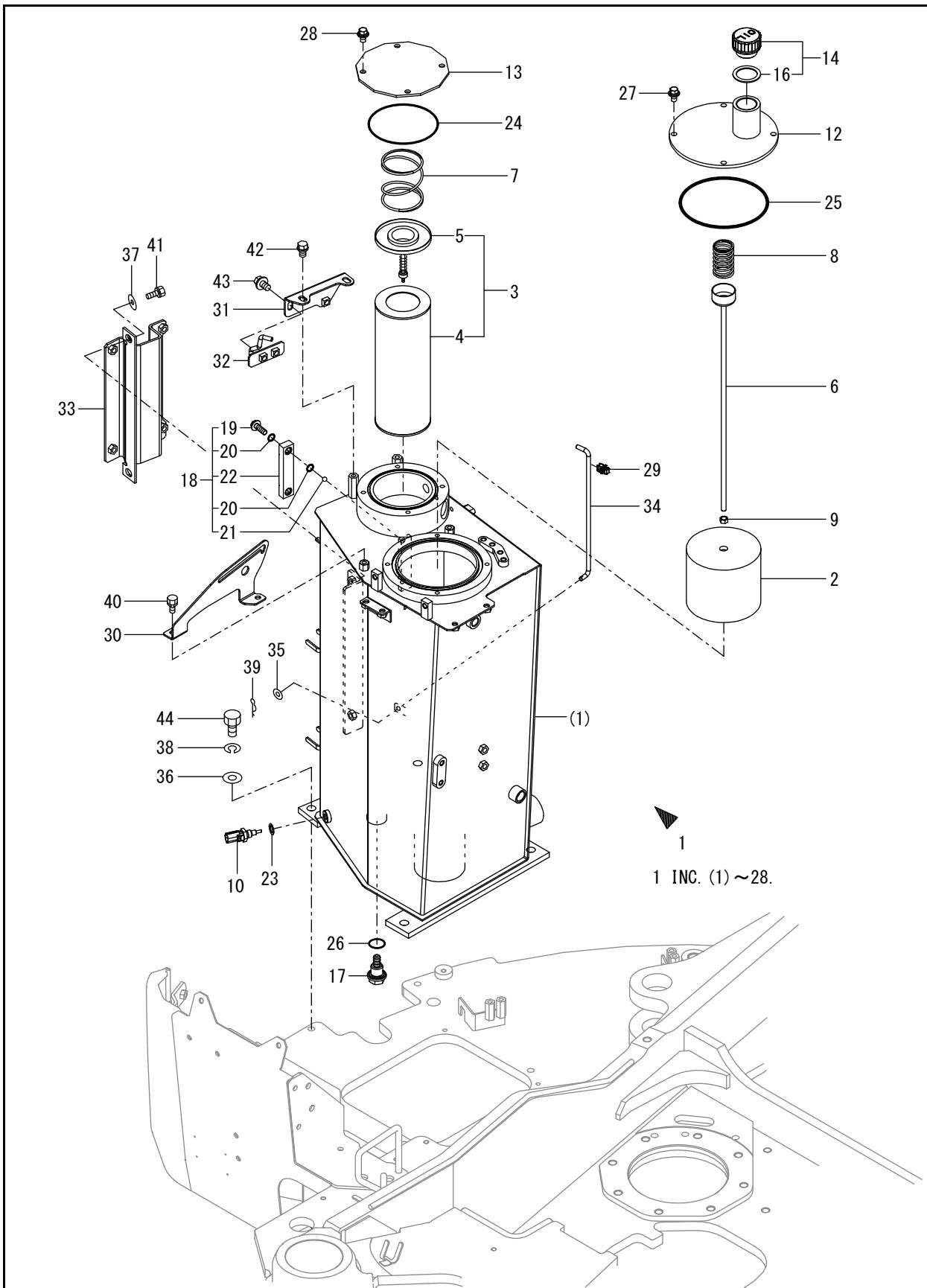


Z80 - COMPACT EXCAVATOR
FIG. 121 - REMOTE CONTROL VALVE (SWING)

Ref. No.	Part No.	Description	Ref. No.
1	50281933	VALVE ASSY	1
2	50281934	SPRING	2
3	50281469	COVER	1
4	50281470	PLUG	2
5	50281471	PACKING	2
6	50281472	O-RING	2
7	50281473	ROD,PUSH	2
8	50281474	SHIM	2
9	50281475	PLUG	1
10	50281476	O-RING	1
11	50281477	SCREW,HEX.S.H.C	2
12	50281478	SEAT,SPRING	2
13	50281479	WASHER	2
14	50281480	SPRING	2
15	50281481	CAM SHAFT	1
16	50281482	BUSHING	2
17	50281483	CAM	1
18	50281484	BALL,STEEL	2
19	50281485	SET SCREW	1
20	50281486	BELLOWS	1
21	50280792	JOINT PF1/4	2
22	50280919	CONNECTOR 1/4-1/4	1
23	50281492	NIPPLE FEMALE G1/4	1
24	50281226	ADJUSTABLE ELBOW 1/4	1
25	50282470	O-RING 1B P-11.0	1
26	50282516	BOLT W/WASHER M10X25	4
27	50282607	PACKING, 11.0	3

Z80 - COMPACT EXCAVATOR

FIG. 122 - HYD. OIL TANK



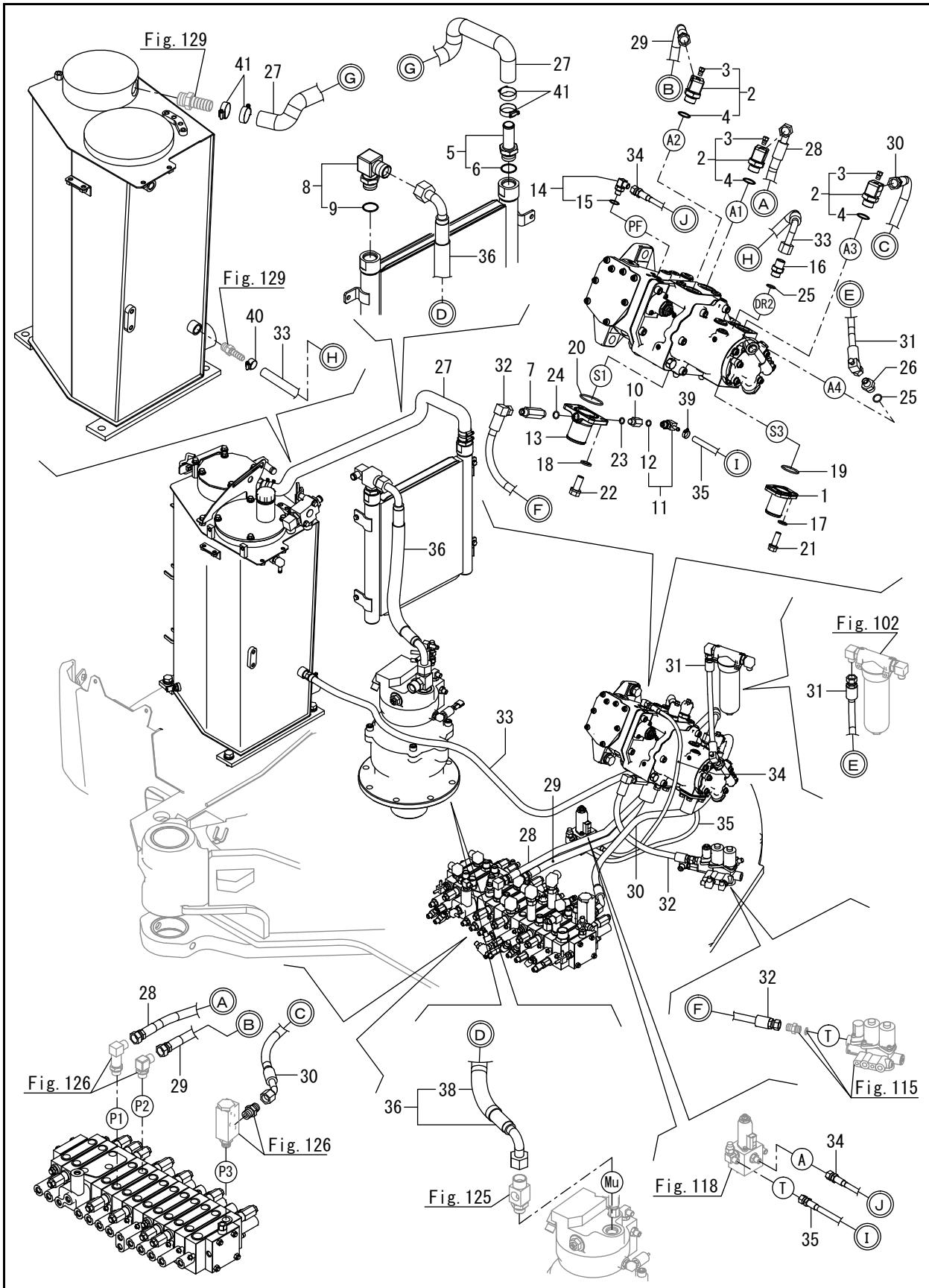
Z80 - COMPACT EXCAVATOR
FIG. 122 - HYD. OIL TANK

Ref. No.	Part No.	Description	Ref. No.
1	50288878	HYDRALIC OIL TANK ASSY	1
2	50280874	STRAINER,SUCTION	1
3	50288796	RETURN FILTER ASSY	1
4	50288797	RETURN FILTER ELEMENT	1
5	50280775	VALVE, BY-PASS	1
6	50281948	ROD ASSY,FILTER	1
7	50280776	SPRING, STRAINER	1
8	50280777	SPRING, STRAINER	1
9	50282597	NUT 10	1
10	197635	THERMOMETER	1
12	50281944	COVER ASSY	1
13	50288233	TANK COVER (replacement also requires label 28A)	1
14	50281945	CAP, RESERVER	1
16	50281946	PACKING	1
17	50280969	PLUG 24	1
18	50281947	GAUGE, OIL LEVEL	1
19	50281103	BOLT M10	2
20	50281104	O-RING	4
21	50288243	FLOAT	1
22	50288267	OIL LEVEL GAUGE	1
23	425-35959	SEAL WASHER 12S	1
24	50282485	O-RING 1A G-135.0	1
25	50282486	O-RING 1A G-170.0	1
26	50282493	O-RING 1A S-30.0	1
27	50282538	BOLT M10X 20	4
28	50282538	BOLT M10X 20	4
28A	50281021	LABEL, HYD.OIL TANK *	1
29	50282365	HOLDER, ROD 8	1
30	50282213	GUIDE,STOPPER	1
31	50288509	BRACKET	1
32	50282215	CATCH ASSY,LOCK	1
33	50288547	HINGE ASSY	1
34	50288548	ROD	1
35	50282380	WASHER 8, POLISHED	1
36	50282382	WASHER 16,POLISHED	4
37	50282387	WASHER 10	2
38	50282396	SPRING WASHER 16	4
39	50282415	SNAP PIN (JASO 8)	1
40	50282514	BOLT M10X 16	2
41	50282516	BOLT W/WASHER M10X25	2
42	50282537	BOLT M10X16	2
43	50282538	BOLT M10X 20	2
44	50282569	BOLT M16X 35 PLATED	4

NOTE: * Label shown on Page 6

Z80 - COMPACT EXCAVATOR

FIG. 123 - HYD. OIL PIPING (PUMP-CONTROL VALVE-OIL COOLER)

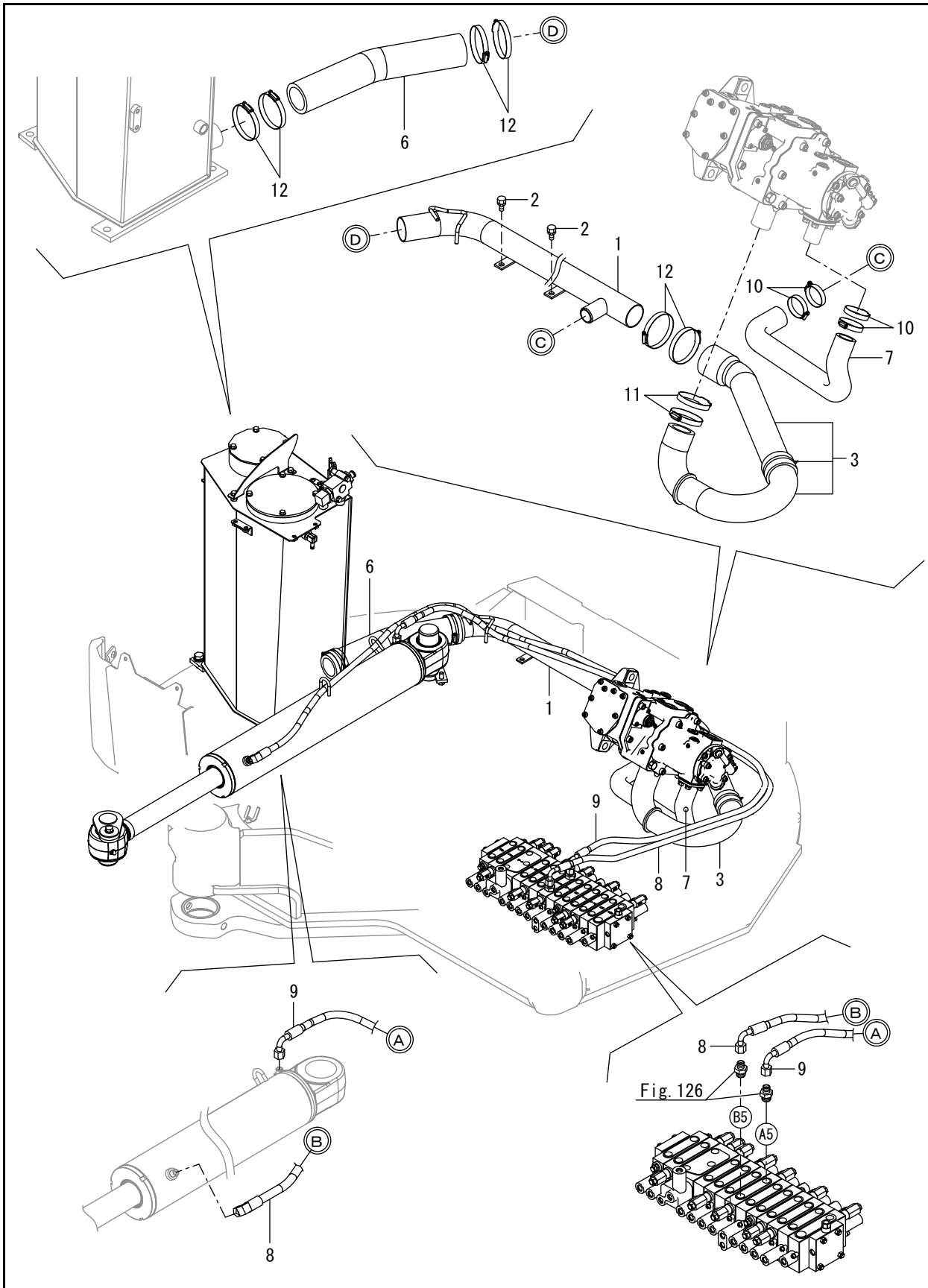


Z80 - COMPACT EXCAVATOR**FIG. 123 - HYD. OIL PIPING (PUMP-CONTROL VALVE-OIL COOLER)**

Ref. No.	Part No.	Description	Ref. No.
1	50281006	FLANGE	1
2	50282300	ELBOW ASSY	3
3	50282301	PLUG, SCREW PT1/8	3
4	50282610	PACKING, 24.0	3
5	50281949	NIPPLE,G1	1
6	50281537	PACKING,29.0	1
7	50282783	ADAPTER	1
8	50282302	90 ELBOW G1	1
9	50282480	O-RING 1B P-29.0	1
10	50281007	CONNECTOR	1
11	50287138	NIPPLE/ELBOW	1
12	50282470	O-RING 1B P-11.0	1
13	50281952	FLANGE ASSY	1
14	50280813	CONNECTOR ASSY, 02FF	1
15	50282607	PACKING, 11.0	1
16	50280778	CONNECTOR	1
17	50282377	WASHER 10	4
18	50282378	WASHER 12	4
19	50282488	O-RING, 1B G 40.0	1
20	50282489	O-RING 1B G-55.0	1
21	50282517	BOLT M10X 30	4
22	50282525	BOLT W/WASHER M12X30	4
23	50282607	PACKING, 11.0	1
24	50282608	O RING P 14.0 HNBR	1
25	50282609	O RING	2
26	50282619	CONNECTOR PF1/2-3/8	1
27	50288828	HOSE	1
28	50288829	HP HOSE	1
29	50288830	HP HOSE	1
30	50288831	HP HOSE	1
31	50288832	HOSE	1
32	50288834	HP HOSE	1
33	50288268	HOSE	1
34	50288835	HOSE	1
35	50288836	HP HOSE	1
36	50282320	HOSE G616CC060	1
38	50281312	INSULATOR,HOSE	1
39	50288899	HOSE CLAMP	1
40	50282427	HOSE CLAMP 22	1
41	50282430	CLIP 41,HOSE	4

Z80 - COMPACT EXCAVATOR

FIG. 124 - HYD. OIL PIPING (TANK-PUMP, SWING CYLINDER)

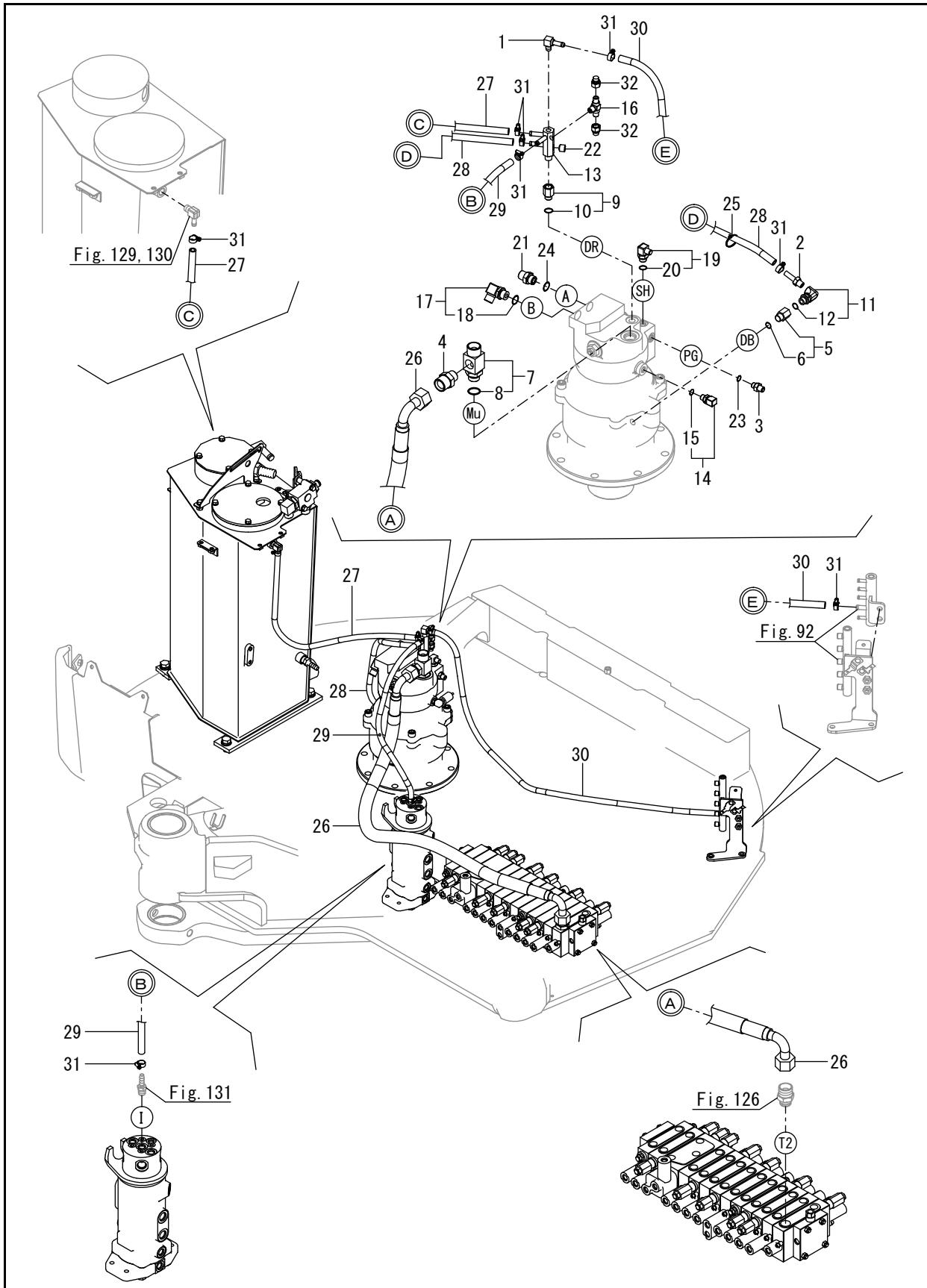


Z80 - COMPACT EXCAVATOR**FIG. 124 - HYD. OIL PIPING (TANK-PUMP, SWING CYLINDER)**

Ref. No.	Part No.	Description	Ref. No.
1	50282308	TUBU ASSY,SUCTION	1
2	50282539	BOLT 10X25 W/PLW+SPW	2
3	50288826	HOSE ASSY	1
6	50281979	HOSE,59 B	1
7	50288827	HOSE	1
8	50288838	HP HOSE	1
9	50288839	HP HOSE	1
10	50282432	CLAMP, HOSE 54	4
11	50284064	CLIP	2
12	50282434	HOSE CLAMP 90	6

Z80 - COMPACT EXCAVATOR

FIG. 125 - HYD. OIL PIPING (CONTROL VALVE-TURNING MOTOR)

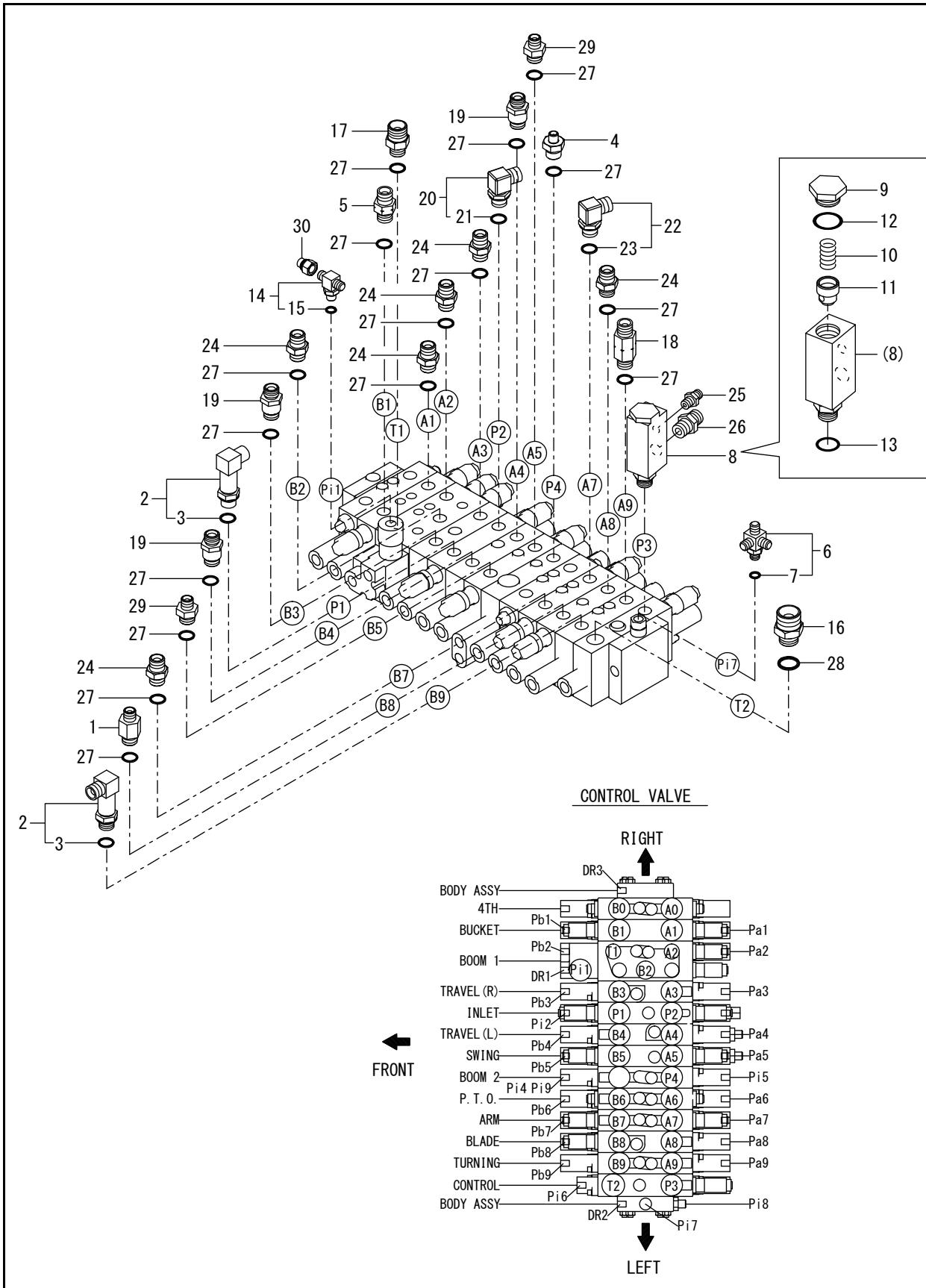


Z80 - COMPACT EXCAVATOR**FIG. 125 - HYD. OIL PIPING (CONTROL VALVE-TURNING MOTOR)**

Ref. No.	Part No.	Description	Ref. No.
1	50280844	ELBOW	1
2	50280807	NIPPLE 3/8	1
3	50280792	JOINT PF1/4	1
4	50280973	CONNECTER	1
5	50281496	JOINT G3/8	1
6	50288156	O-RING	1
7	50280974	CONNECTOR(PF1-PF3/4	1
8	50282477	O-RING 1B P-24.0	1
9	50281950	ADAPTER M/F 3/8	1
10	50282608	O RING P 14.0 HNBR	1
11	50281308	ELBOW 3/8	1
12	50288156	O-RING	1
13	50281310	JOINT 3/8	1
14	50282306	JOINT,G1/4-RC1/8	1
15	50282607	PACKING, 11.0	1
16	50280876	CONNECTOR 3-1/4	1
17	50280814	CONNECTOR 1/2L	1
18	50282474	O-RING 1B P-18.0	1
19	50280815	CONNECTOR 3/8-1/4L	1
20	50288156	O-RING	1
21	50280778	CONNECTOR	1
22	425-35678	PLUG PT 1/4 SCREW	1
23	50282607	PACKING, 11.0	1
24	50282609	O RING	1
25	50280802	BAND	1
26	50281983	HOSE G616CC159S	1
27	50281984	HOSE G806YY075	1
28	50281985	HOSE G806YY060S	1
29	50281985	HOSE G806YY060S	1
30	50281986	HOSE G806YY140	1
31	50288899	HOSE CLAMP	8
32	50282368	CAP G 1/4	2

Z80 - COMPACT EXCAVATOR

FIG. 126 - HYD. OIL PIPING (CONTROL VALVE:FITTING, 1)

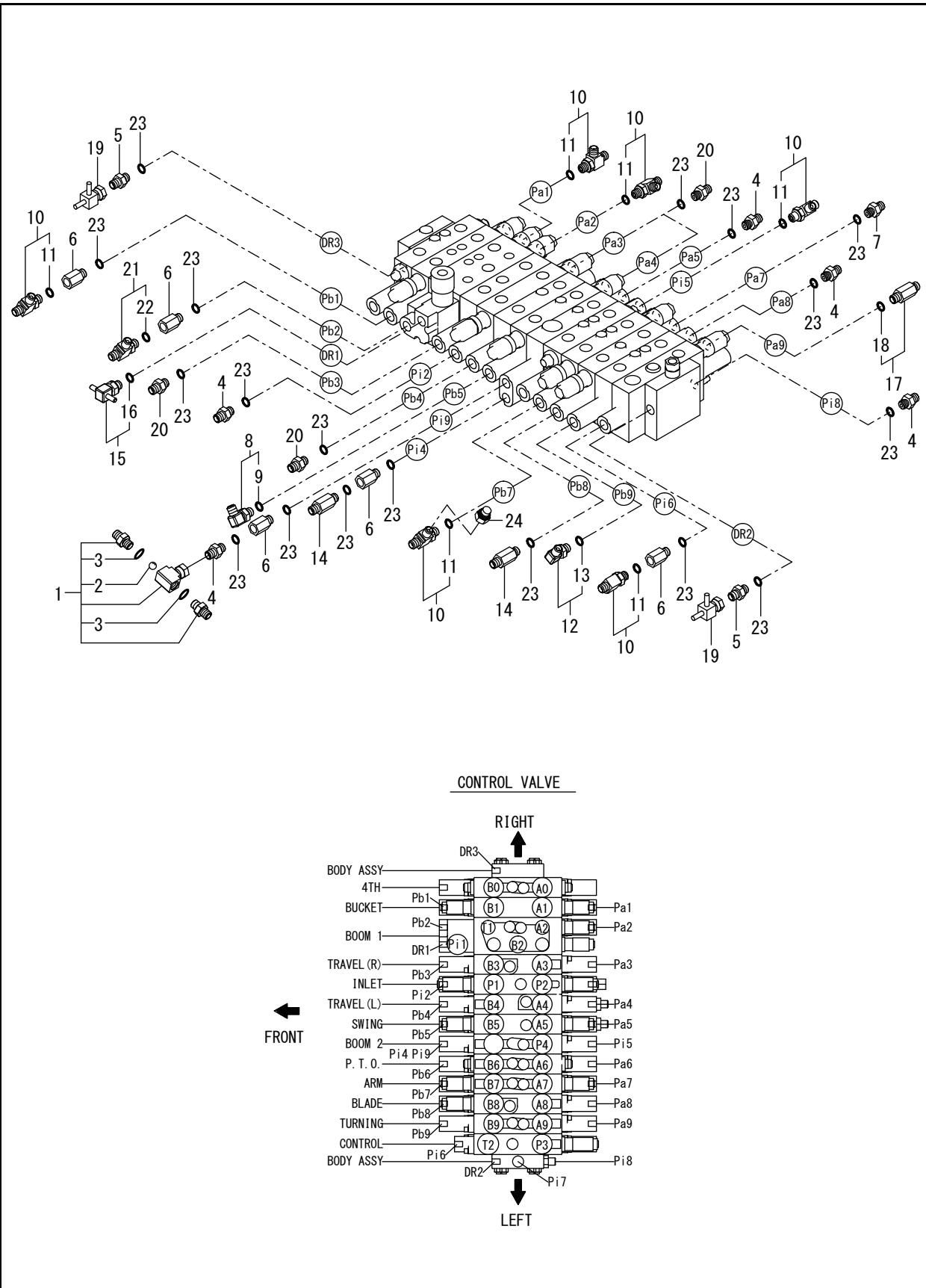


Z80 - COMPACT EXCAVATOR
FIG. 126 - HYD. OIL PIPING (CONTROL VALVE:FITTING, 1)

Ref. No.	Part No.	Description	Ref. No.
1	50281013	CONNECTOR	1
2	50281319	ELBOW 1/2 L	2
3	50282474	O-RING 1B P-18.0	2
4	50281014	CONNECTOR	1
5	50281015	CONNECTOR 1/2X 1/2	1
6	50281225	CONNECTOR 1/4	1
7	50282470	O-RING 1B P-11.0	1
8	50281951	ELBOW,901/2	1
9	50286502	PLUG	1
10	50286503	SPRING	1
11	50286504	POPPET VALVE	1
12	50282477	O-RING 1B P-24.0	1
13	50282609	O RING	1
14	50280975	THEETH	1
15	50282470	O-RING 1B P-11.0	1
16	50280843	JOINT PF3/4- 1	1
17	50280977	ADAPTER	1
18	50280913	JOINT PF1/2	1
19	50280835	CONNECTOR	3
20	50280814	CONNECTOR 1/2L	1
21	50282474	O-RING 1B P-18.0	1
22	50280814	CONNECTOR 1/2L	1
23	50282474	O-RING 1B P-18.0	1
24	50280778	CONNECTOR	6
25	50282438	JOINT RGI1/4	1
26	50282440	JOINT RGI 1/2	1
27	50282609	O RING	16
28	50282610	PACKING, 24.0	1
29	50282619	CONNECTOR PF1/2-3/8	2
30	50282368	CAP G 1/4	1

Z80 - COMPACT EXCAVATOR

FIG. 127 - HYD. OIL PIPING (CONTROL VALVE:FITTING, 2)

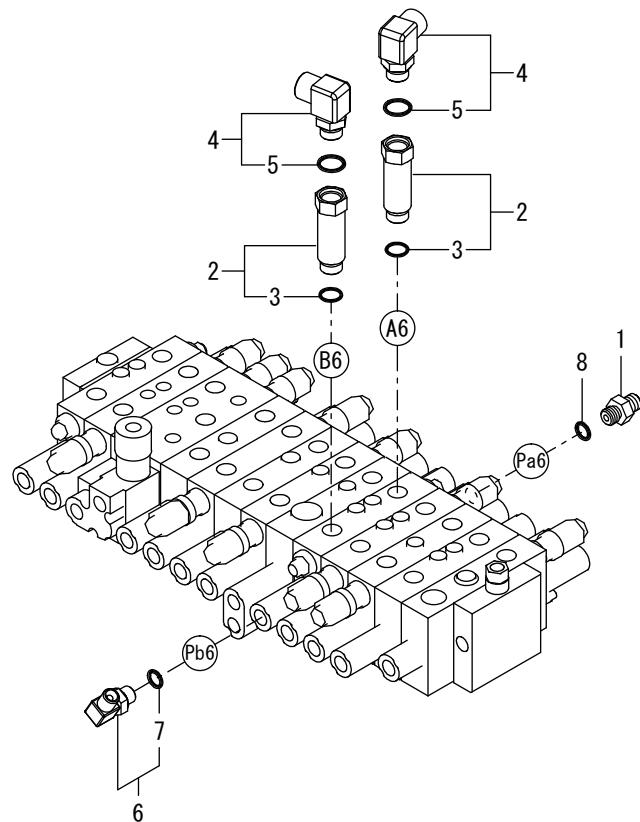


Z80 - COMPACT EXCAVATOR
FIG. 127 - HYD. OIL PIPING (CONTROL VALVE:FITTING, 2)

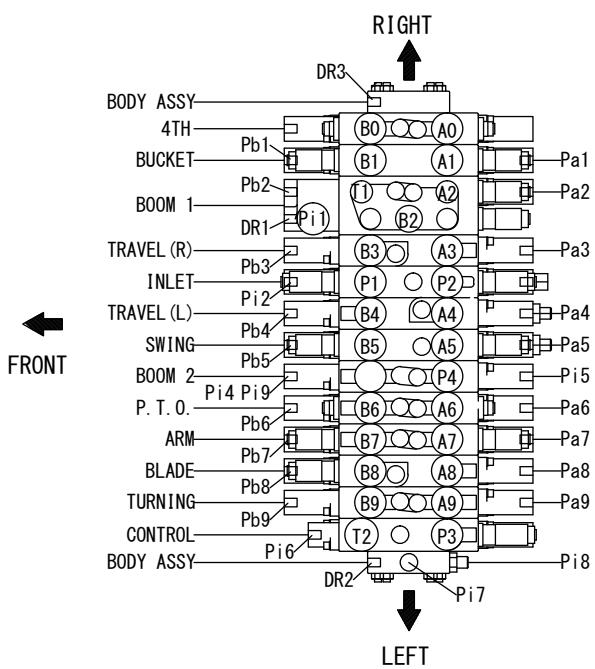
Ref. No.	Part No.	Description	Ref. No.
1	50282082	VALVE,SHUTTLE	1
2	50282458	BALL 7/16, STEEL	1
3	50282607	PACKING, 11.0	2
4	50280792	JOINT PF1/4	5
5	50280792	JOINT PF1/4	2
6	50281007	CONNECTOR	5
7	50281488	CONNECTOR G1/4-1.0	1
8	50280813	CONNECTOR ASSY, 02FF	1
9	50282607	PACKING, 11.0	1
10	50280875	JOINT 3-1/4 ASSY	6
11	50282607	PACKING, 11.0	6
12	50281489	ELBOW,90G1/4-0.6	1
13	50282607	PACKING, 11.0	1
14	50280919	CONNECTOR 1/4-1/4	2
15	50281490	NIPPLE G1/4	1
16	50282607	PACKING, 11.0	1
17	50281491	CONNECTOR G1/4L-0.6	1
18	50282607	PACKING, 11.0	1
19	50281492	NIPPLE FEMALE G1/4	2
20	50280890	JOINT PF1/4-0.7	4
21	50280891	T-JOINT 1/4	1
22	50282470	O-RING 1B P-11.0	1
23	50282607	PACKING, 11.0	21
24	50282368	CAP G 1/4	1

Z80 - COMPACT EXCAVATOR

FIG. 128 - HYD. OIL PIPING (CONTROL VALVE:FITTING, P.T.O.)



CONTROL VALVE

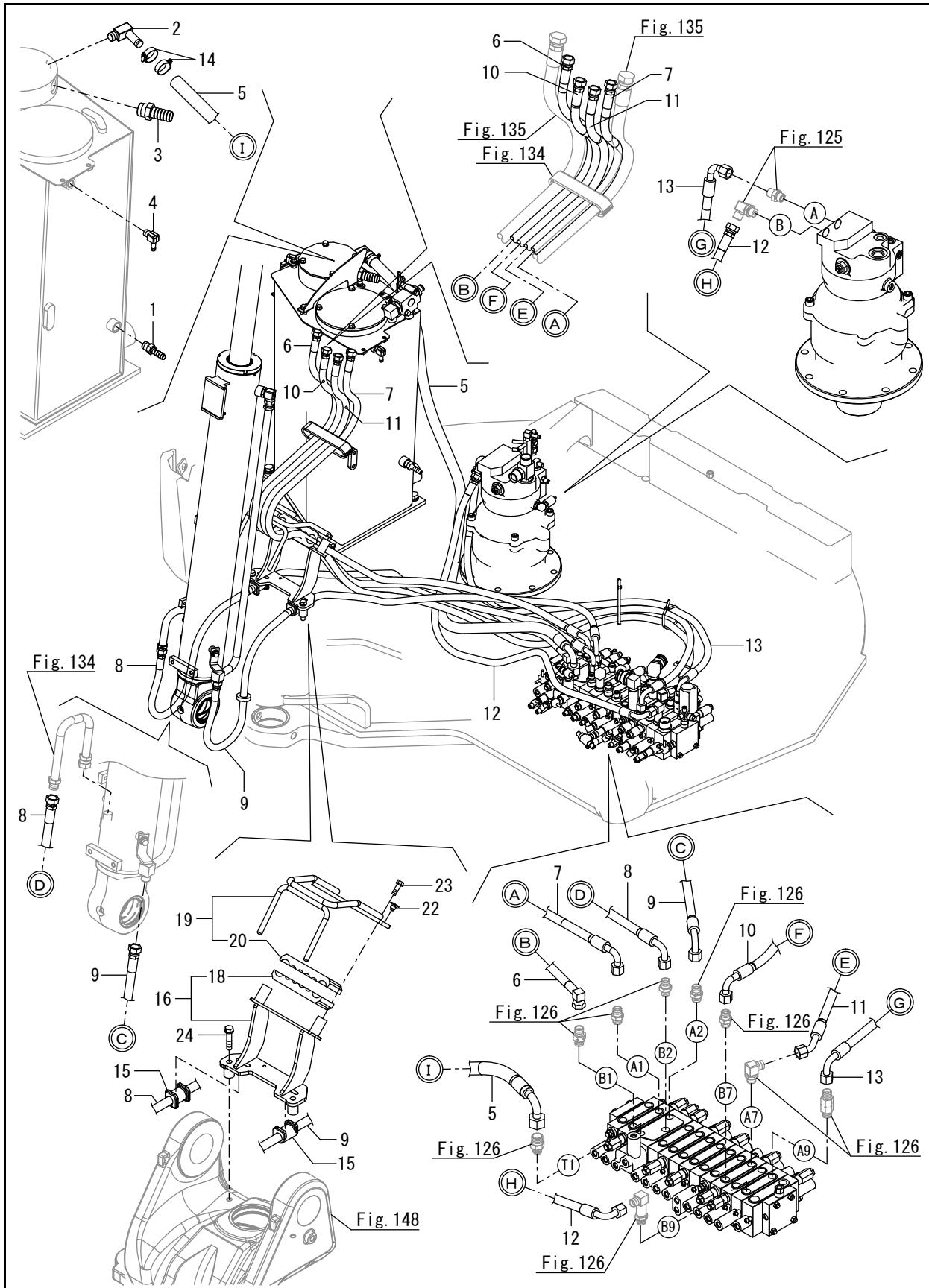


Z80 - COMPACT EXCAVATOR**FIG. 128 - HYD. OIL PIPING (CONTROL VALVE:FITTING, P.T.O.)**

Ref. No.	Part No.	Description	Ref. No.
1	50280792	JOINT PF1/4	1
2	50281413	ADAPTER G1/2-1/2	2
3	50282609	O RING	2
4	50280842	ELBOW	2
5	50282474	O-RING 1B P-18.0	2
6	50280813	CONNECTOR ASSY, 02FF	1
7	50282607	PACKING, 11.0	1
8	50282607	PACKING, 11.0	1

Z80 - COMPACT EXCAVATOR

FIG. 129 - HYD. OIL PIPING (CONTROL VALVE-BOOM, TURNING MOTOR, TANK)

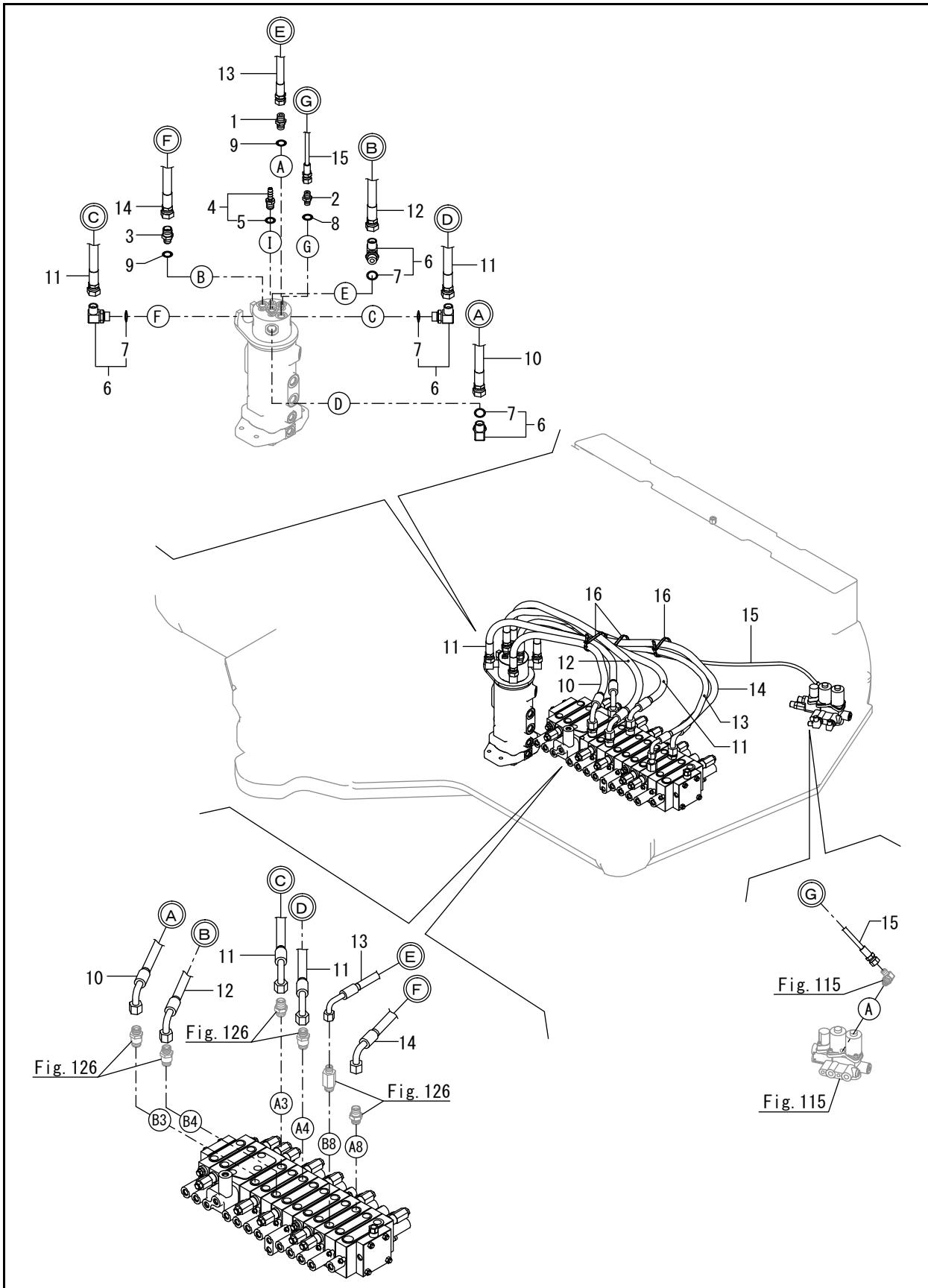


Z80 - COMPACT EXCAVATOR**FIG. 129 - HYD. OIL PIPING (CONTROL VALVE-BOOM, TURNING MOTOR, TANK)**

Ref. No.	Part No.	Description	Ref. No.
1	50280902	CONNECTOR 12,ROUND	1
2	50288278	90° ELBOW	1
3	50280976	NIPPLE, HOSE	1
4	50280903	ELBOW	1
5	50281982	HOSE G612CY188S	1
6	50282321	HOSE H108BV238K	1
7	50282322	HOSE H108BC234K	1
8	50281988	HOSE H108BC217K	1
9	50281989	HOSE H108BC208K	1
10	50282328	HOSE G108BC291K	1
11	50282329	HOSE H108BE272K	1
12	50281996	HOSE H108BC145S	1
13	50281997	HOSE H108CC152S	1
14	50282429	HOSE CLAMP 35	2
15	50280983	RUBBER A	2
16	50286397	HOSE CLAMP ASSY	1
18	50282336	RUBBER SUPPORT,HOSE	1
19	50286399	CLAMP PLATE ASSY	1
20	50282336	RUBBER SUPPORT,HOSE	1
22	50280920	TREE CLIP	4
23	50282517	BOLT M10X 30	2
24	50282528	BOLT M12X 60	2

Z80 - COMPACT EXCAVATOR

FIG. 131 - HYD. OIL PIPING (CONTROL VALVE-SWIVEL JOINT)

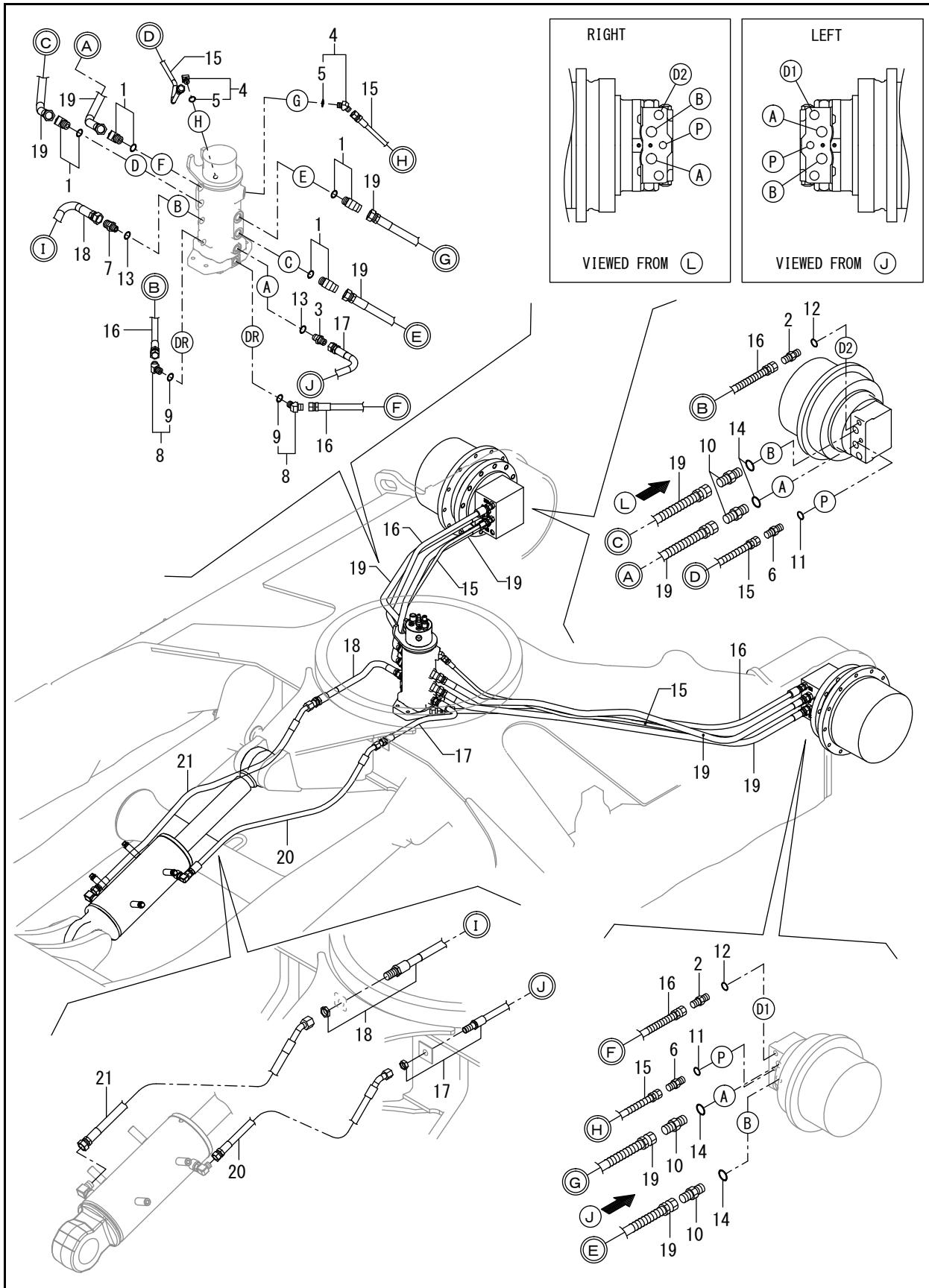


Z80 - COMPACT EXCAVATOR**FIG. 131 - HYD. OIL PIPING (CONTROL VALVE-SWIVEL JOINT)**

Ref. No.	Part No.	Description	Ref. No.
1	50281350	JOINT	1
2	50280792	JOINT PF1/4	1
3	50282816	CONNECTOR	1
4	50288257	CONNECTOR	1
5	50282608	O RING P 14.0 HNBR	1
6	50280814	CONNECTOR 1/2L	4
7	50282474	O-RING 1B P-18.0	4
8	50282607	PACKING, 11.0	1
9	50282608	O RING P 14.0 HNBR	2
10	50281990	HOSE H108BC070	1
11	50281991	HOSE H108BC073	2
12	50281992	HOSE H108BC086	1
13	50281994	HOSE H106BC113S	1
14	50281995	HOSE H108BC113S	1
15	50282029	HOSE F403BB107S	1
16	50280791	CLAMP 350	3

Z80 - COMPACT EXCAVATOR

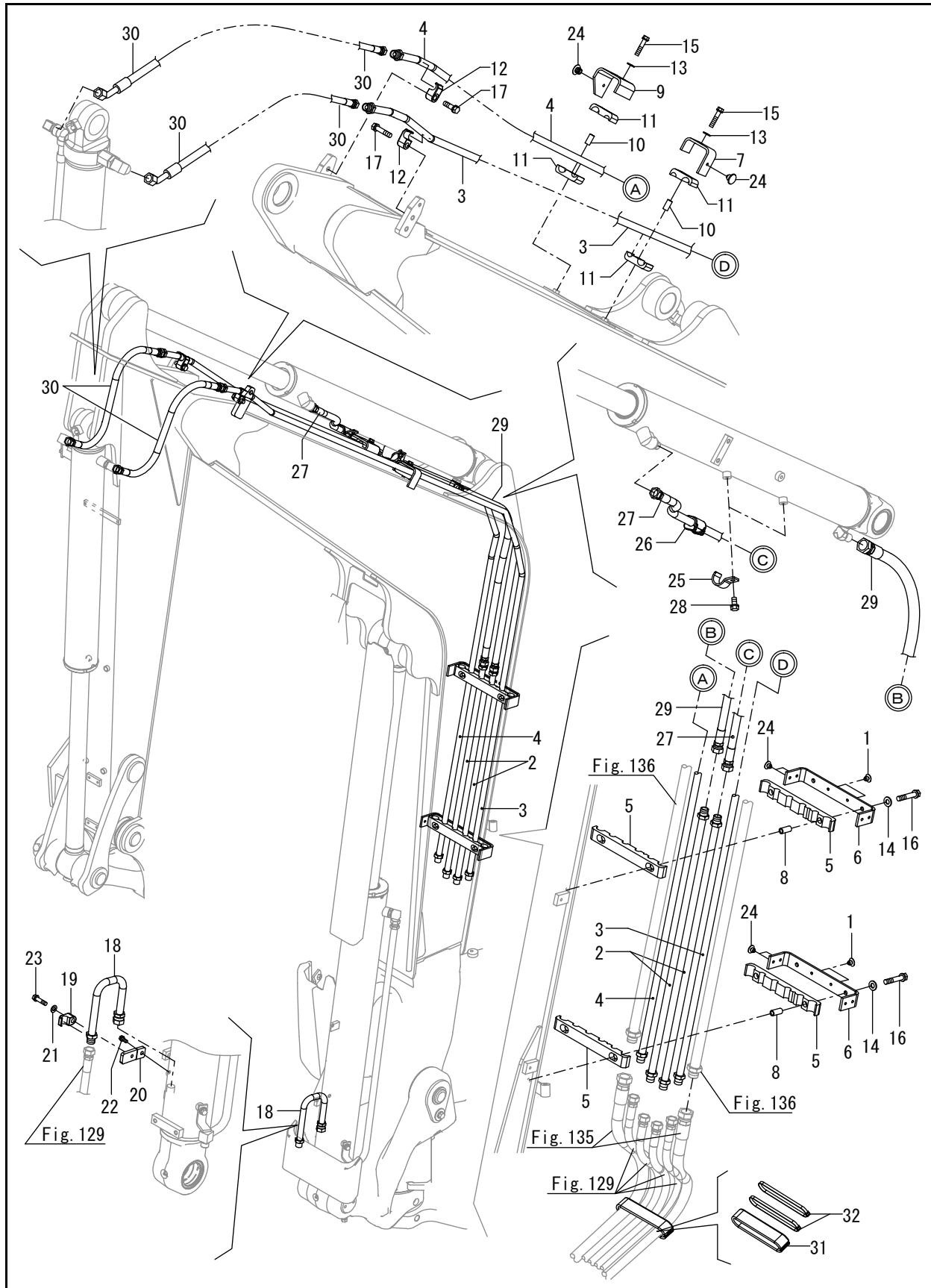
FIG. 132 - HYD. OIL PIPING (TRAVEL FRAME)



Z80 - COMPACT EXCAVATOR
FIG. 132 - HYD. OIL PIPING (TRAVEL FRAME)

Ref. No.	Part No.	Description	Ref. No.
1	50288859	ELBOW	4
2	50281350	JOINT	2
3	50281350	JOINT	1
4	50280905	CONNECTOR PF1/4-45	2
5	50282607	PACKING, 11.0	2
6	50280792	JOINT PF1/4	2
7	50282816	CONNECTOR	1
8	50283270	ADJUST ELBOW 45	2
9	50288156	O-RING	2
10	50280778	CONNECTOR	4
11	50282607	PACKING, 11.0	2
12	50282608	O RING P 14.0 HNBR	2
13	50282608	O RING P 14.0 HNBR	2
14	50282609	O RING	4
15	50280984	HOSE	2
16	50280985	HOSE	2
17	50281998	HOSE H106BX055	1
18	50281999	HOSE H108BX055	1
19	50281311	HOSE	4
20	50282000	HOSE H106BE097W	1
21	50282001	HOSE H108BE130W	1

Z80 - COMPACT EXCAVATOR
FIG. 133 - HYD. OIL PIPING (BOOM)

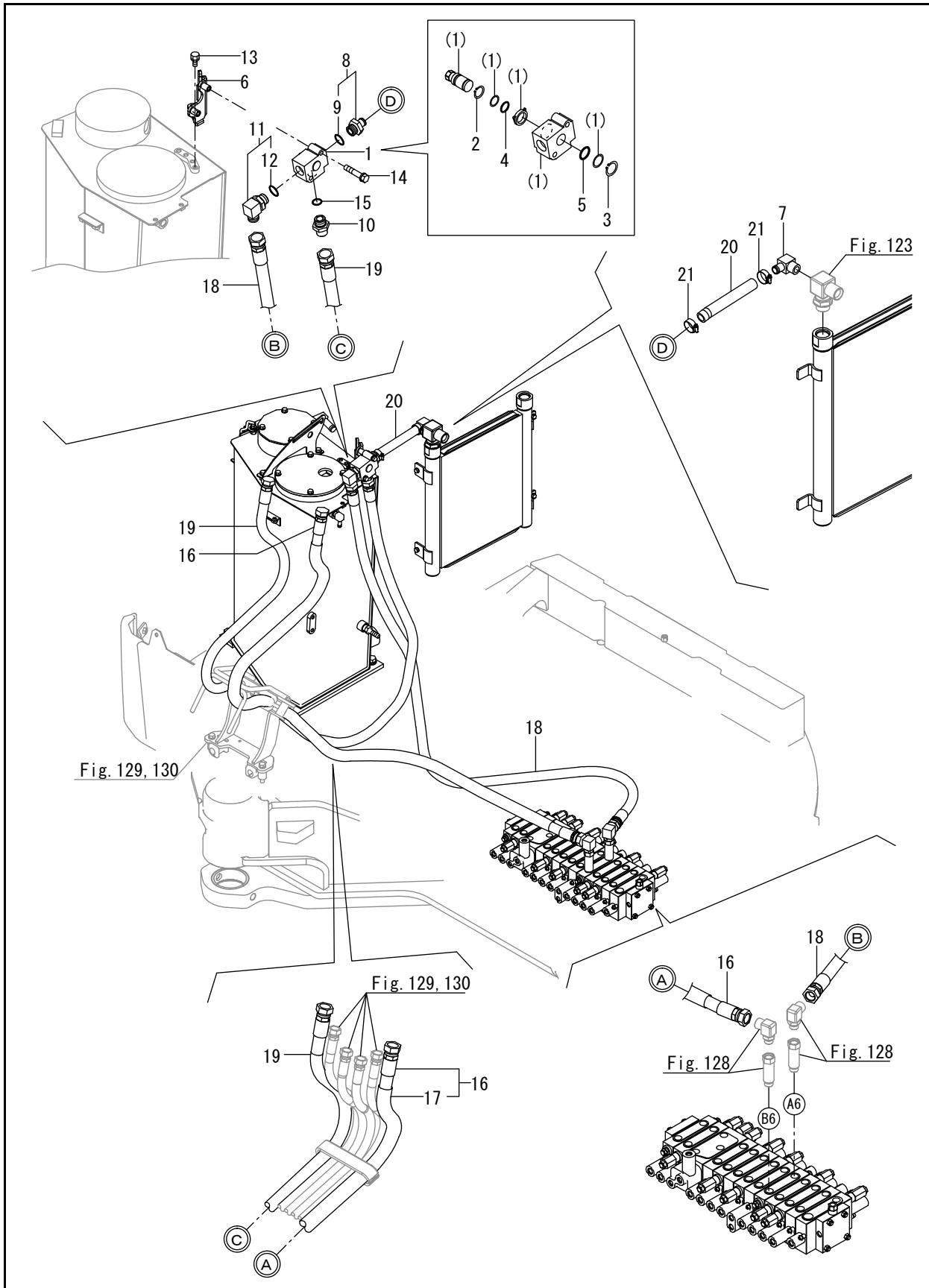


Z80 - COMPACT EXCAVATOR
FIG. 133 - HYD. OIL PIPING (BOOM)

Ref. No.	Part No.	Description	Ref. No.
1	50281050	CLIP	6
2	50286333	ARM TUBE ASSY LT	2
3	50286395	BUCKET TUBE ASSY LT	1
4	50286335	ARM TUBE ASSY RT	1
5	50282307	RUBBER CLAMP A	4
6	50288817	TUBE CLAMP	2
7	50288819	TUBE CLAMP	1
8	50281960	COLLAR,CLAMP	4
9	50288821	TUBE CLAMP	1
10	50280978	COLLAR, CLAMP	2
11	50280982	RUBBER B	4
12	50286169	CLAMP, 1/2	2
13	138111	WASHER/POLISHED	2
14	138111	WASHER/POLISHED	4
15	50282521	BOLT M10X 50	2
16	50282522	BOLT M10X 55	4
17	50282526	BOLT M12X 40	2
18	50282242	BOOM TUBE STD	1
19	50286605	CLAMP	1
20	50281972	PLATE,CLAMP H	1
21	138111	WASHER/POLISHED	1
22	50282507	BOLT W/WASHER M8X20	1
23	50282519	BOLT M10X 40	1
24	50281050	CLIP	6
25	50281884	CLAMP,HOSE 1/2	2
26	50280983	RUBBER A	2
27	50281987	HOSE H108BB202K	1
28	50282514	BOLT M10X 16	2
29	50282331	HOSE H108BB095K	1
30	50282332	HOSE H108BB070W	2
31	50282008	HOSE COVER 23X330	1
32	50282076	HOSE CLIP 400	2

Z80 - COMPACT EXCAVATOR

FIG. 135 - HYD. OIL PIPING (P.T.O.:FRAME END)

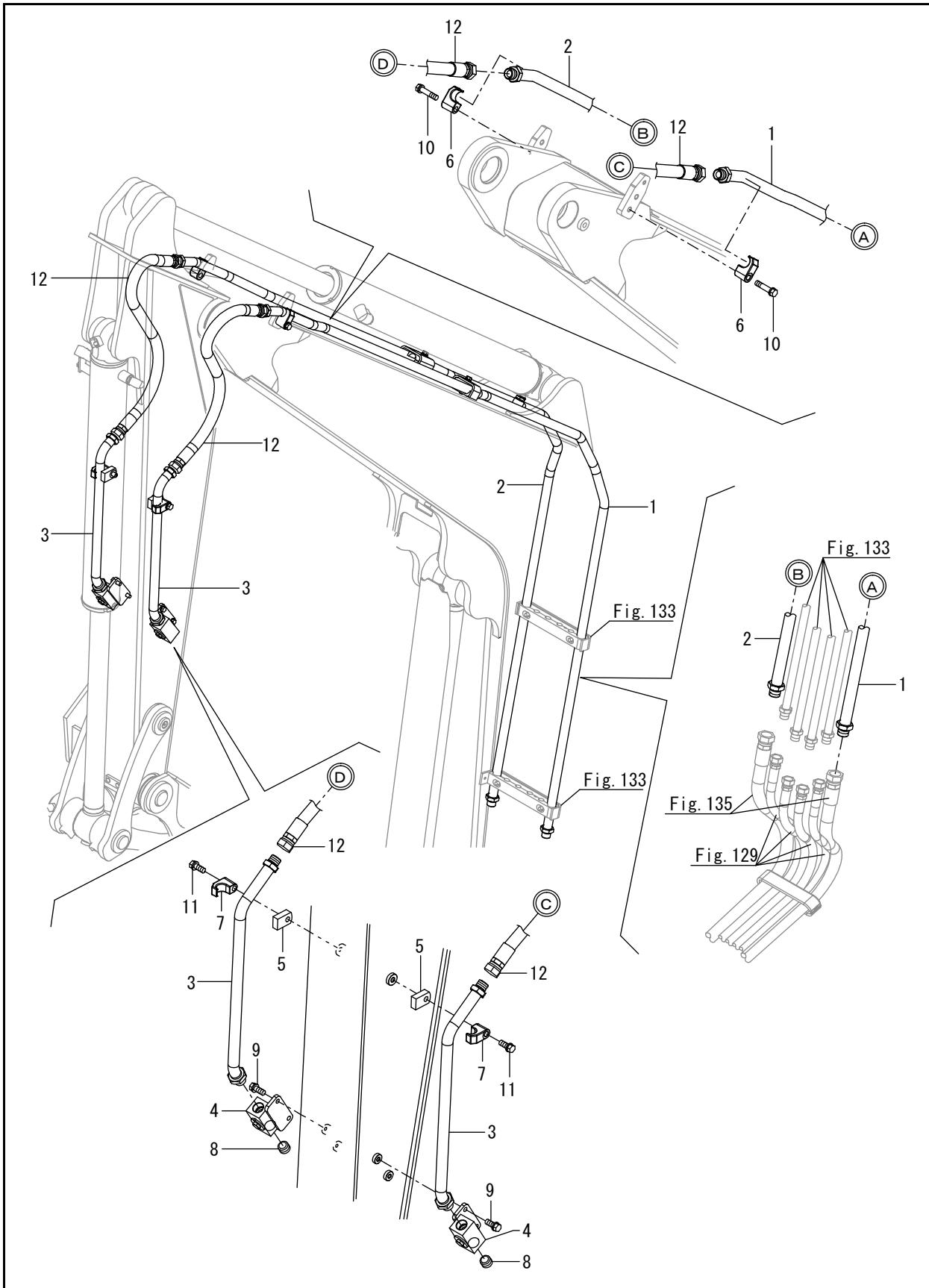


Z80 - COMPACT EXCAVATOR
FIG. 135 - HYD. OIL PIPING (P.T.O.:FRAME END)

Ref. No.	Part No.	Description	Ref. No.
1	50281905	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	50281906	STAY ASSY,VALVE	1
7	50281165	ELBOW	1
8	50281320	NIPPLE PF3/4,HOSE	1
9	50282477	O-RING 1B P-24.0	1
10	50280824	JOINT PF3/4	1
11	50280898	CONNECTOR PF3/4M CMP	1
12	50282477	O-RING 1B P-24.0	1
13	50282514	BOLT M10X 16	2
14	50282521	BOLT M10X 50	2
15	50282610	PACKING, 24.0	1
16	50282325	HOSE G112BB259K	1
17	50280909	SPONGE, HOSE	1
18	50282326	HOSE G112BB205K	1
19	50282327	HOSE G112BB304K	1
20	50288840	HOSE	1
21	50282428	HOSE CLAMP 25	2

Z80 - COMPACT EXCAVATOR

FIG. 136 - HYD. OIL PIPING (P.T.O.:ARM END)



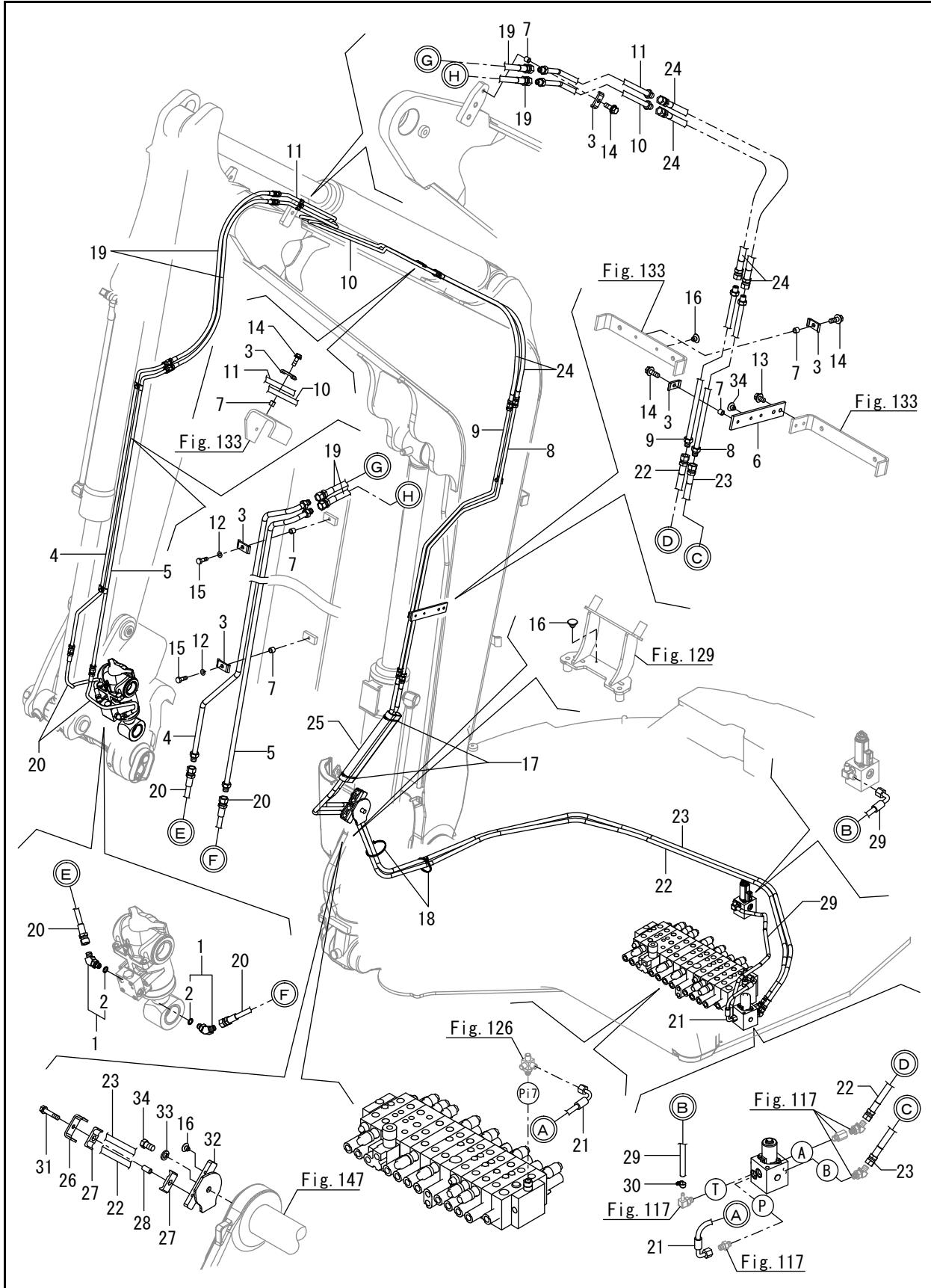
Z80 - COMPACT EXCAVATOR
FIG. 136 - HYD. OIL PIPING (P.T.O.:ARM END)

Ref. No.	Part No.	Description	Ref. No.
1	50286417	PTO TUBE ASSY LT	1
2	50286337	PTO TUBE ASSY RT	1
3	50286183	TUBE	2
4	50286175	STOP VALVE *	2
5	50286185	PLATE	2
6	50286167	CLAMP, 3/4	2
7	50286167	CLAMP, 3/4	2
8	50282450	PLUG PT3/4,SCREW	2
9	50282516	BOLT W/WASHER M10X25	4
10	50282527	BOLT M12X55	2
11	50282529	BOLT 12X70 W/SP.WSHR	2
12	50280986	HOSE	2

NOTE: * For flat-faced quick-connect coupler service parts, see
Page 290.

Z80 - COMPACT EXCAVATOR

FIG. 138 - HYD. OIL PIPING (QUICK COUPLER)

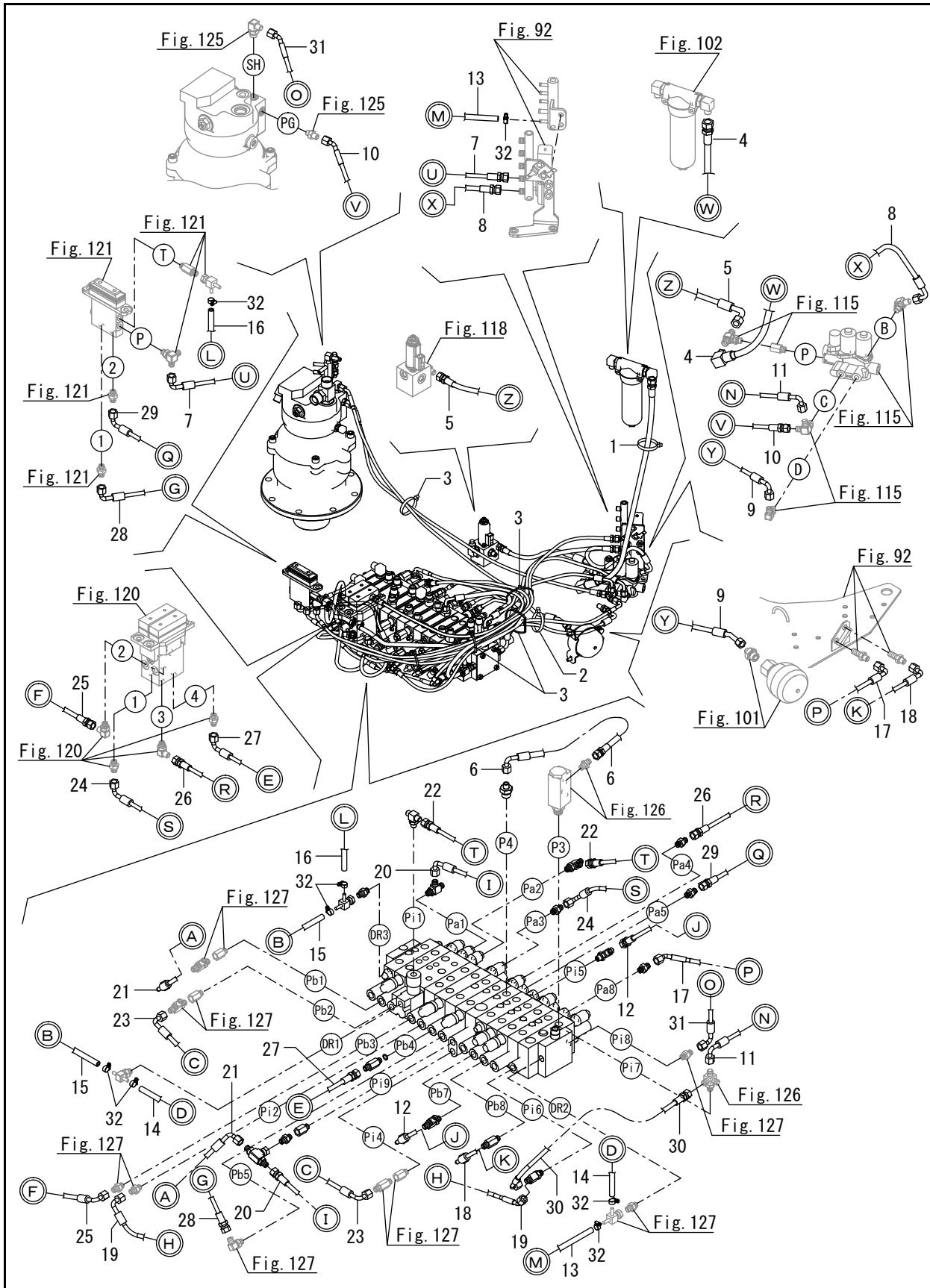


Z80 - COMPACT EXCAVATOR
FIG. 138 - HYD. OIL PIPING (QUICK COUPLER)

Ref. No.	Part No.	Description	Ref. No.
1	50281388	ELBOW PF1/4-PF1/4	2
2	50282470	O-RING 1B P-11.0	2
3	50280772	PLATE	6
4	50286249	ARM TUBE	1
5	50286251	ARM TUBE	1
6	50288823	BRACKET	1
7	50280808	COLLAR 9X11	6
8	50286347	TUBE ASSY A	1
9	50286349	TUBE ASSY B	1
10	50286351	TUBE ASSY C	1
11	50286353	TUBE ASSY D	1
12	50282392	WASHER, 8	2
13	50282533	BOLT M 8X 16	2
14	425-35026	BOLT M8 X 25	4
15	50282549	BOLT, 8 X 25	2
16	50281050	CLIP	4
17	50280798	BAND 300	2
18	50282352	BAND	2
19	50281391	HOSE	2
20	50281377	HOSE	2
21	50282002	HOSE H604CC025	1
22	50282333	HOSE H604BB339K	1
23	50282334	HOSE H604BB339K	1
24	50282003	HOSE H604BB093K	2
25	50282007	COVER,HOSE	1
26	50282039	CLAMP 54X25	1
27	50282040	RUBBER SUPPORT,HOSE	2
28	50282041	COLLAR 9X24	1
29	50282338	HOSE G804CY103	1
30	425-34918	CLAMP 13	1
31	50282510	BOLT M 8X 40	1
32	50286597	CLAMP ASSY	1
33	188712	SPRING/WASHER 14	1
34	50282566	BOLT M14X 25 PLATED	1

Z80 - COMPACT EXCAVATOR

FIG. 140 - CONTROL PIPING (CONTROL VALVE-SOLENOID VALVE)

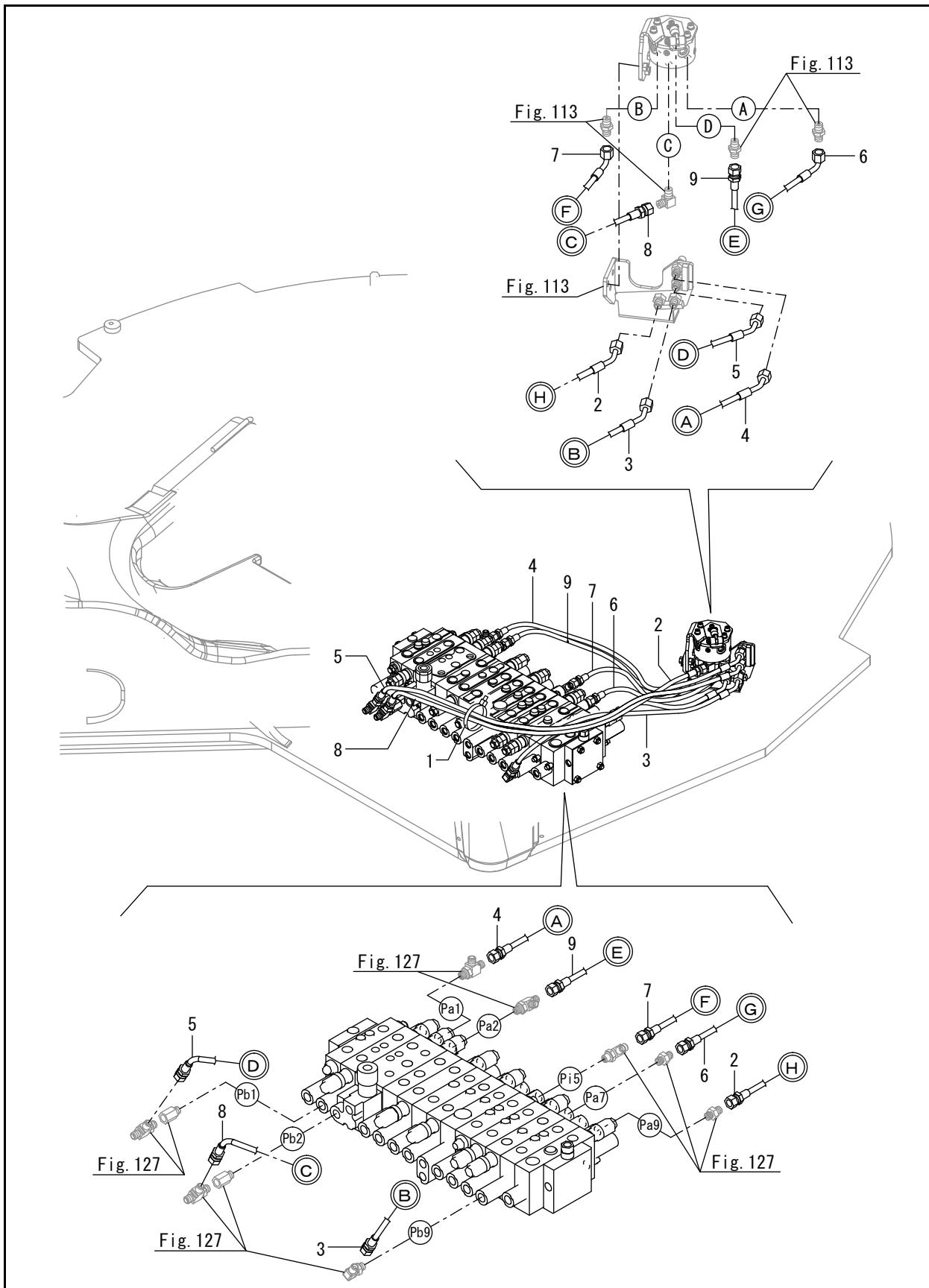


Z80 - COMPACT EXCAVATOR**FIG. 140 - CONTROL PIPING (CONTROL VALVE-SOLENOID VALVE)**

Ref. No.	Part No.	Description	Ref. No.
1	50280802	BAND	1
2	50280802	BAND	1
3	50282352	BAND	5
4	50288833	HOSE	1
5	50288837	HP HOSE	1
6	50281993	HOSE H104BC034	1
7	50282025	HOSE F403BC148	1
8	50288841	HP HOSE	1
9	50288842	HP HOSE	1
10	50282028	HOSE F403BE120S	1
11	50282030	HOSE F403CC067	1
12	50282031	HOSE F403BC083	1
13	50282032	HOSE G804YY115S	1
14	50282033	HOSE G804YY045S	1
15	50282034	HOSE G804YY017S	1
16	50282035	HOSE G804YY034	1
17	50282037	HOSE H603CE042	1
18	50282038	HOSE F403CC090	1
19	50282043	HOSE F403CE027	1
20	50282044	HOSE F403BE113	1
21	50282045	HOSE H603CC035	1
22	50282046	HOSE F403BB117	1
23	50282047	HOSE H603CC022	1
24	50282048	HOSE F403CC115	1
25	50282049	HOSE H603BC026	1
26	50282050	HOSE F403BB115	1
27	50282051	HOSE H603BC036	1
28	50282053	HOSE F403BC042	1
29	50282054	HOSE F403BC133	1
30	50282055	HOSE H603BC023	1
31	50282056	HOSE F403CE135S	1
32	425-34918	CLAMP 13	8

Z80 - COMPACT EXCAVATOR

FIG. 141 - CONTROL PIPING (CONTROL VALVE-2-WAY VALVE)

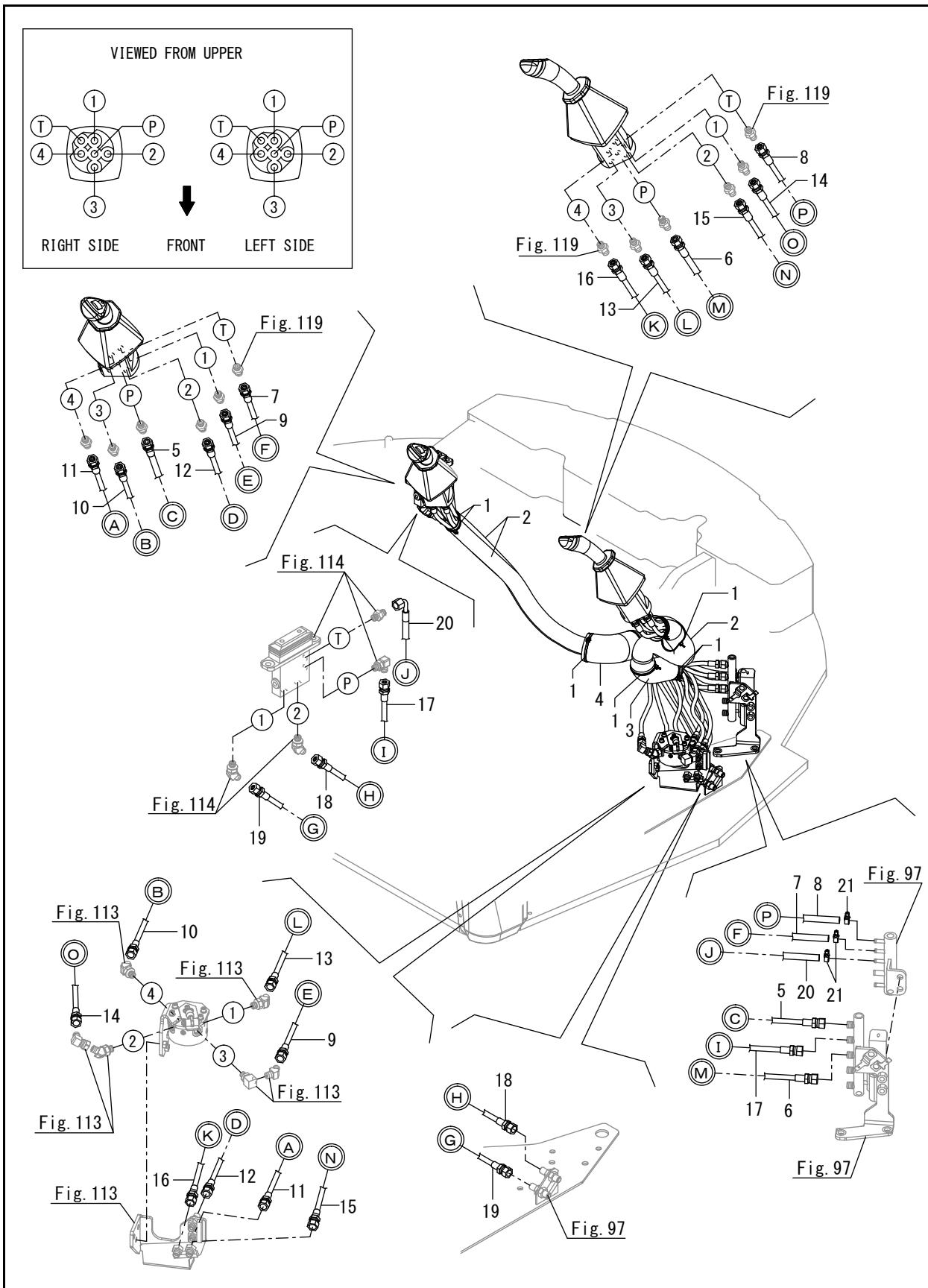


Z80 - COMPACT EXCAVATOR
FIG. 141 - CONTROL PIPING (CONTROL VALVE-2-WAY VALVE)

Ref. No.	Part No.	Description	Ref. No.
1	50282352	BAND	1
2	50282068	HOSE H603BE030	1
3	50282069	HOSE F403BE075	1
4	50282070	HOSE F403BE079	1
5	50282071	HOSE F403BE112	1
6	50282072	HOSE F403BC040	1
7	50282073	HOSE F403BC082	1
8	50282074	HOSE F403BB081	1
9	50282075	HOSE F403BB071	1

Z80 - COMPACT EXCAVATOR

FIG. 142 - CONTROL PIPING (2-WAY VALVE-REMOTE CONTROL VALVE)

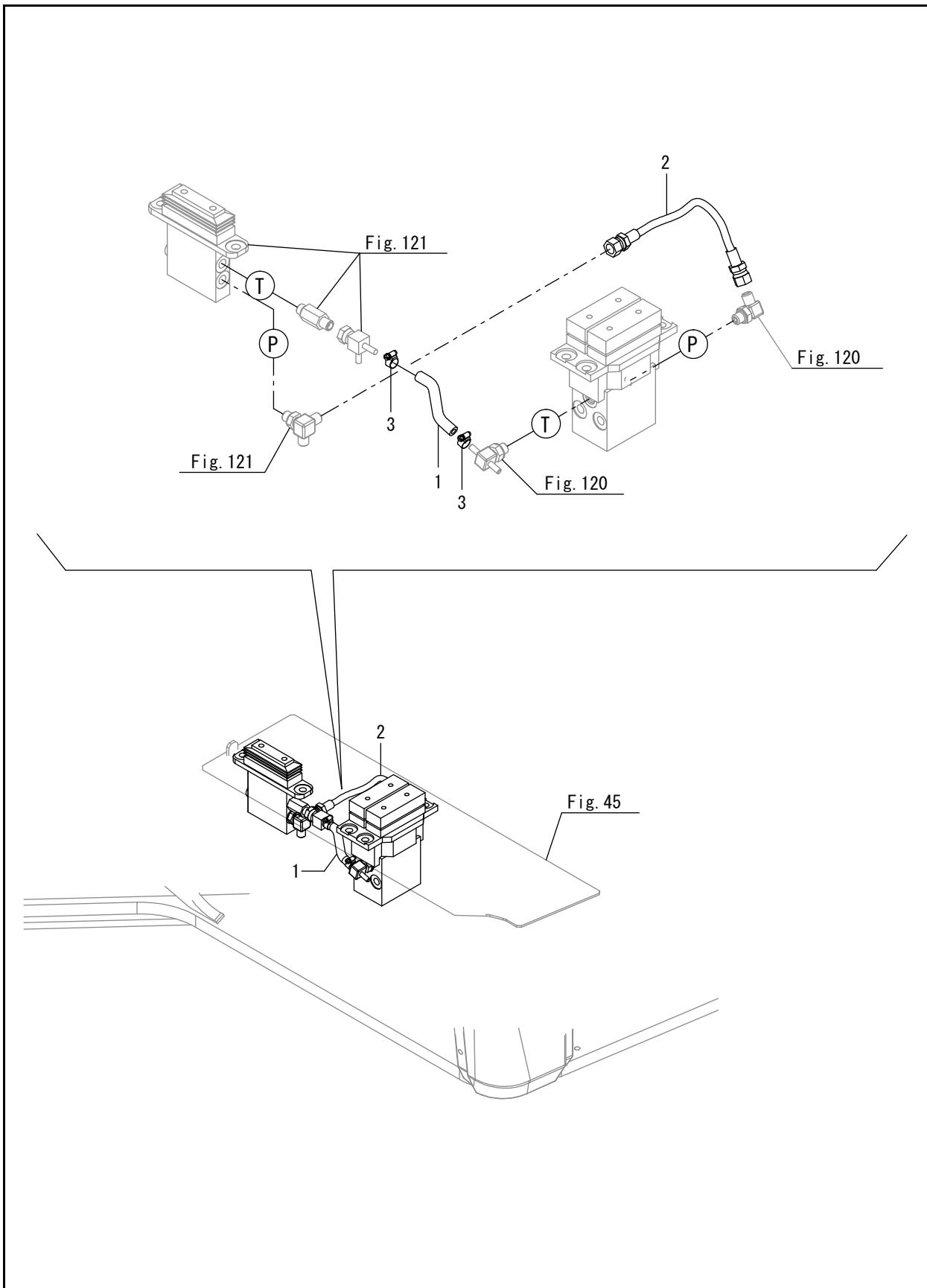


Z80 - COMPACT EXCAVATOR**FIG. 142 - CONTROL PIPING (2-WAY VALVE-REMOTE CONTROL VALVE)**

Ref. No.	Part No.	Description	Ref. No.
1	50280798	BAND 300	12
2	50282004	HOSE COVER,650	3
3	50282005	SPONGE HOSE,150X44	1
4	50282006	SPONGE HOSE,150X53	1
5	50282009	HOSE H603BB106	1
6	50282010	HOSE H603BB092	1
7	50282011	HOSE G804BY120	1
8	50282012	HOSE G804BY095	1
9	50282013	HOSE H603BB134	1
10	50282014	HOSE H603BB123	1
11	50282015	HOSE H603BB130	1
12	50282016	HOSE H603BB126	1
13	50282017	HOSE H603BB104	1
14	50282018	HOSE H603BB103	1
15	50282019	HOSE H603BB106	1
16	50282020	HOSE H603BB105	1
17	50282021	HOSE F403BB103	1
18	50282022	HOSE H603BB116	1
19	50282023	HOSE H603BB114	1
20	50282024	HOSE G804CY110	1
21	425-34918	CLAMP 13	3

Z80 - COMPACT EXCAVATOR

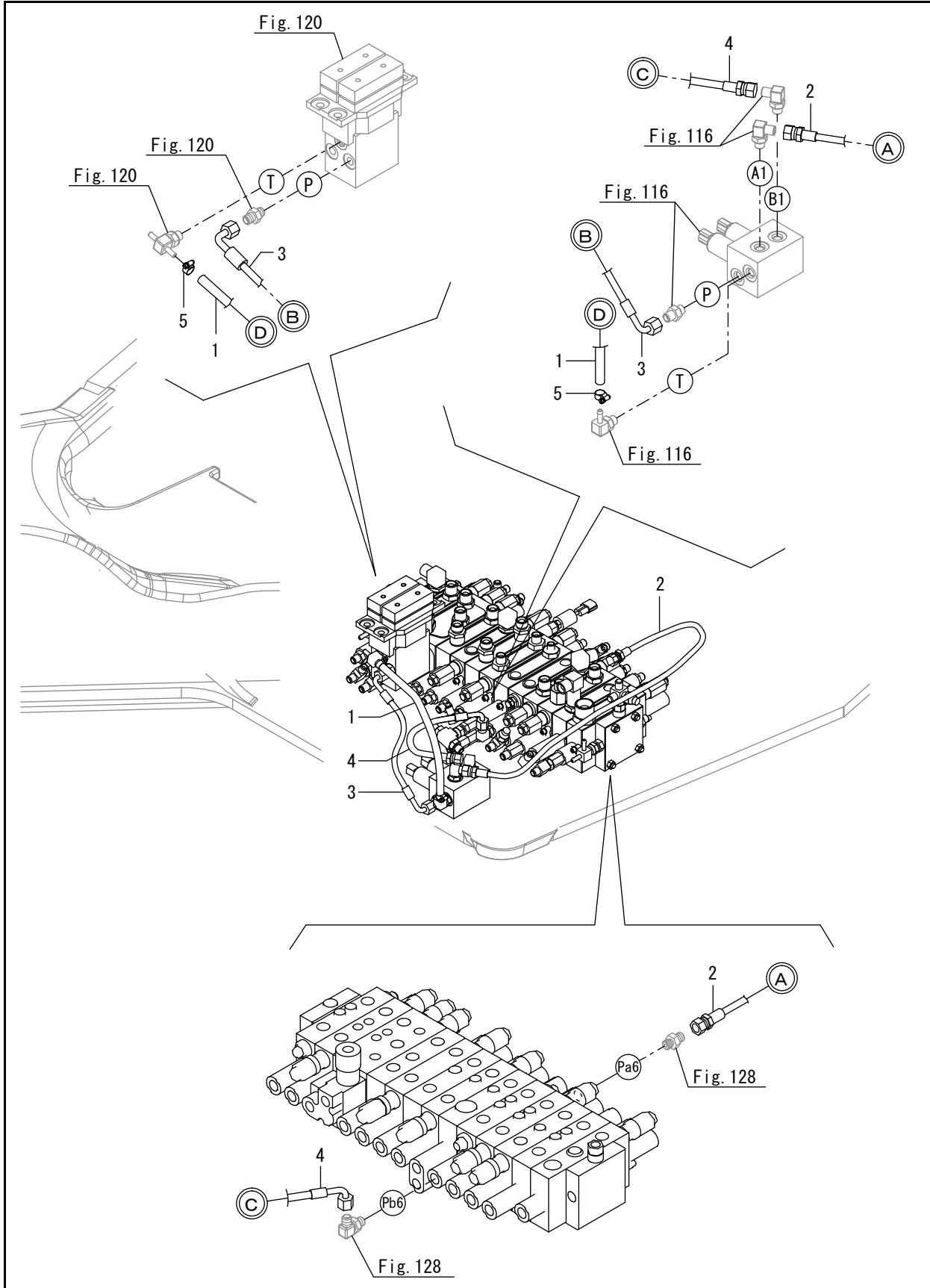
FIG. 143 - CONTROL PIPING (TRAVEL, SWING PEDAL)



Z80 - COMPACT EXCAVATOR
FIG. 143 - CONTROL PIPING (TRAVEL, SWING PEDAL)

Ref. No.	Part No.	Description	Ref. No.
1	50282036	HOSE G804YY010	1
2	50282052	HOSE H603BB020	1
3	425-34918	CLAMP 13	2

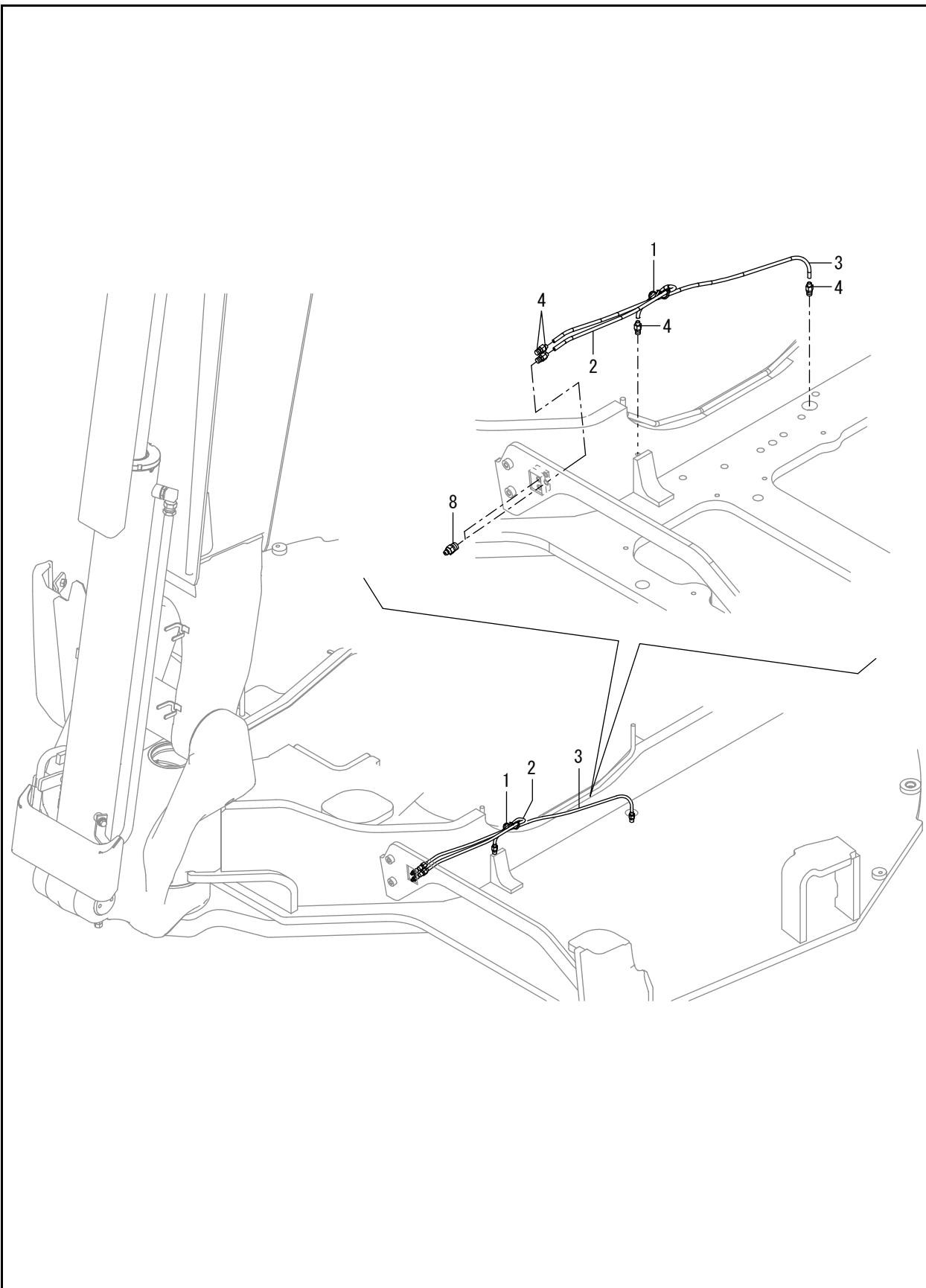
Z80 - COMPACT EXCAVATOR
FIG. 144 - CONTROL PIPING (P.T.O.)



Z80 - COMPACT EXCAVATOR
FIG. 144 - CONTROL PIPING (P.T.O.)

Ref. No.	Part No.	Description	Ref. No.
1	50288843	HOSE	1
2	50288844	HP HOSE	1
3	50288845	HP HOSE	1
4	50288846	HP HOSE	1
5	425-34918	CLAMP 13	2

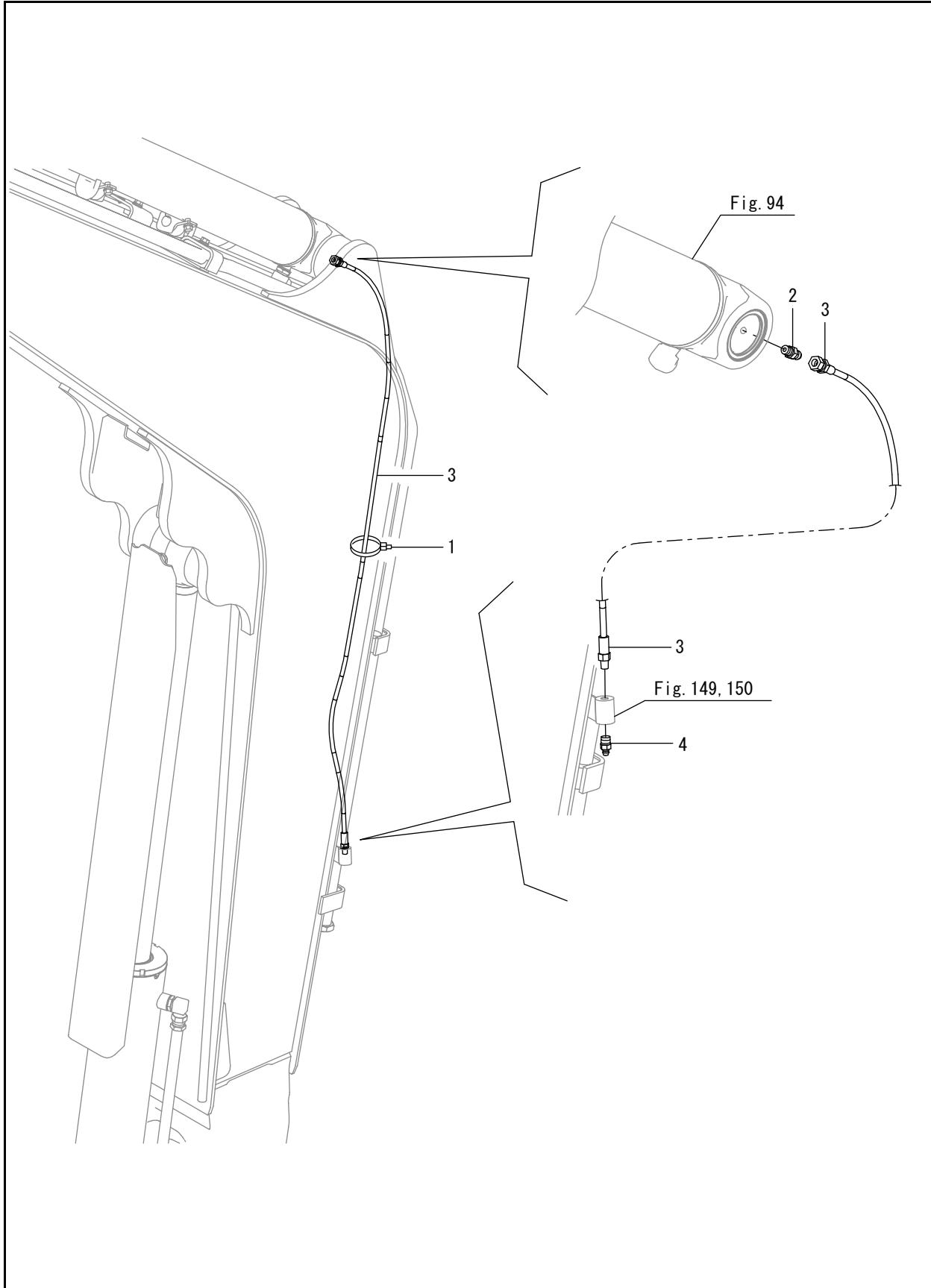
Z80 - COMPACT EXCAVATOR
FIG. 145 - GREASING (TURNING FRAME)



Z80 - COMPACT EXCAVATOR
FIG. 145 - GREASING (TURNING FRAME)

Ref. No.	Part No.	Description	Ref. No.
1	50280802	BAND	1
2	50282310	HOSE P602YY045	1
3	50282311	HOSE P602YY075	1
4	50281493	JOINT,GREASE	4
8	50282497	NIPPLE PT1/8,GREASE	2

Z80 - COMPACT EXCAVATOR
FIG. 146 - GREASING (BOOM)

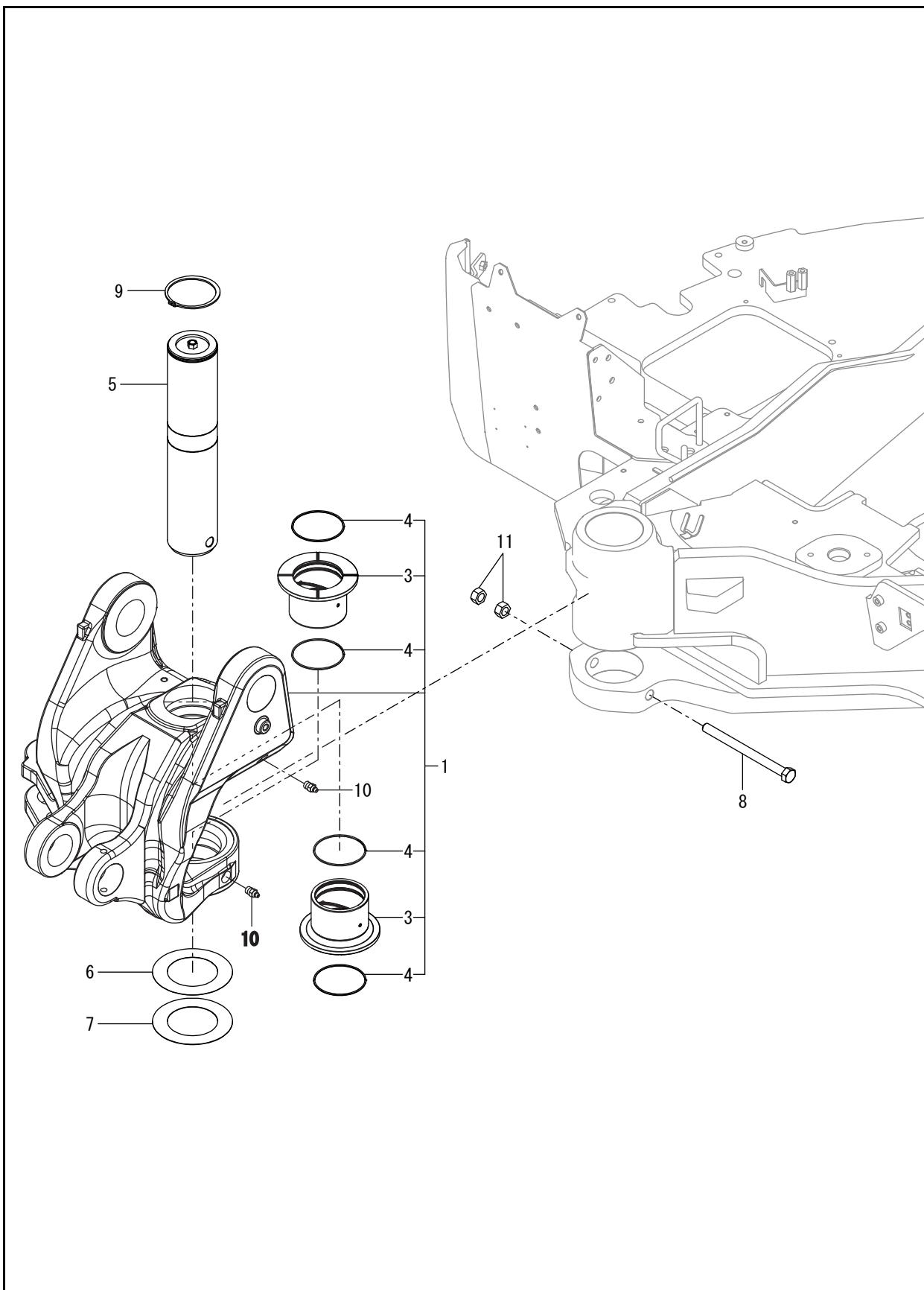


Z80 - COMPACT EXCAVATOR
FIG. 146 - GREASING (BOOM)

Ref. No.	Part No.	Description	Ref. No.
1	50282352	BAND	1
2	50280779	JOINT 1/8	1
3	50282312	HOSE P202AF145	1
4	50282497	NIPPLE PT1/8,GREASE	1

Z80 - COMPACT EXCAVATOR

FIG. 147 - BOOM BRACKET

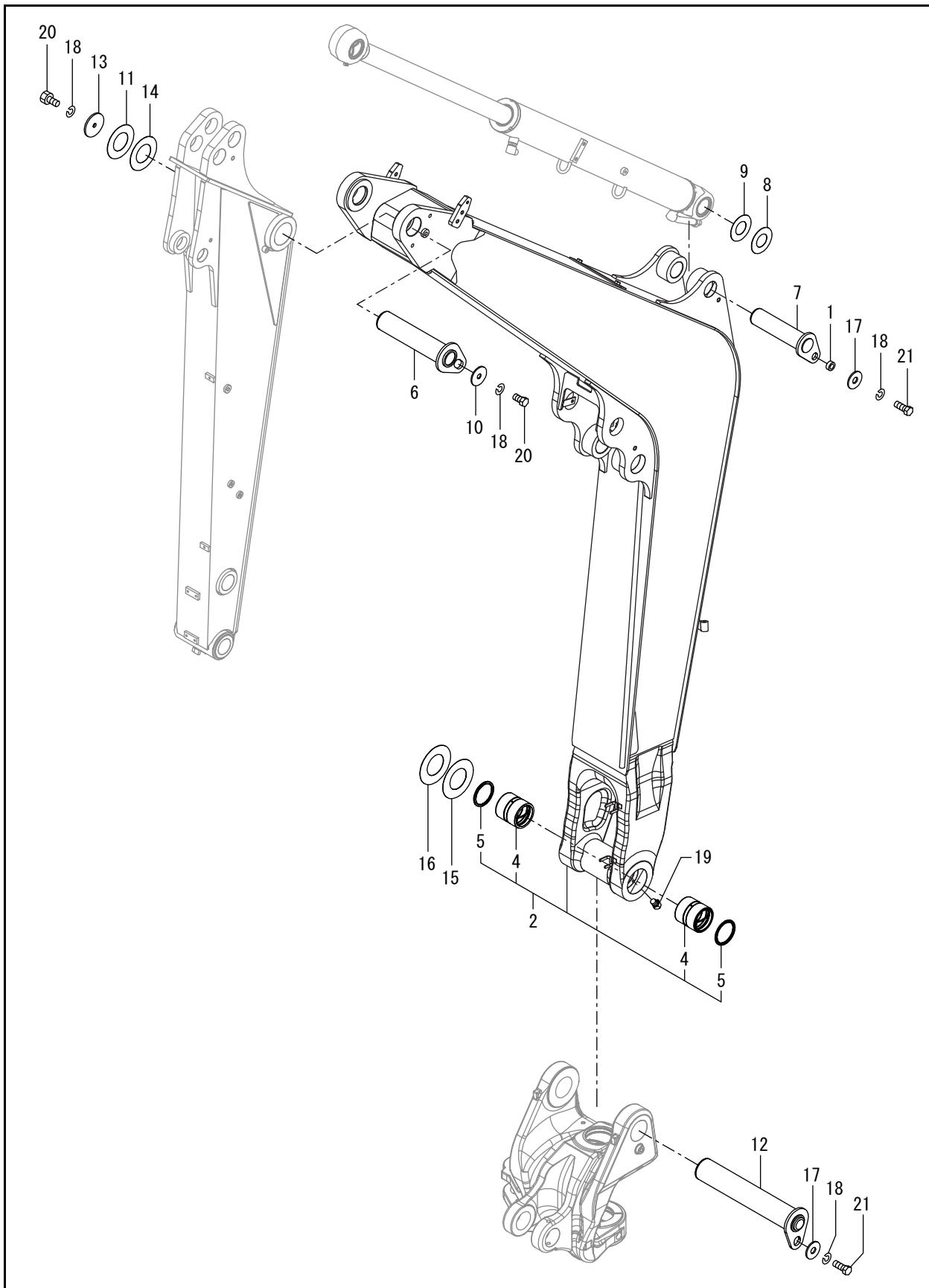


Z80 - COMPACT EXCAVATOR
FIG. 147 - BOOM BRACKET

Ref. No.	Part No.	Description	Ref. No.
1	50286405	BOOM BRACKET ASSY/GEHL	1
3	50282343	BUSH, 100X90	2
4	50282484	O-RING 1A G-100.0	4
5	50280992	PIN 100X487	1
6	50280995	SHIM 100X160X0.5	1
7	50280996	SHIM 100X160X0.8	1
8	50280997	BOLT 18X230	1
9	50282405	CIRCLIP 100	1
10	50282497	NIPPLE PT1/8,GREASE	2
11	50282600	NUT M18	2

Z80 - COMPACT EXCAVATOR

FIG. 149 - BOOM



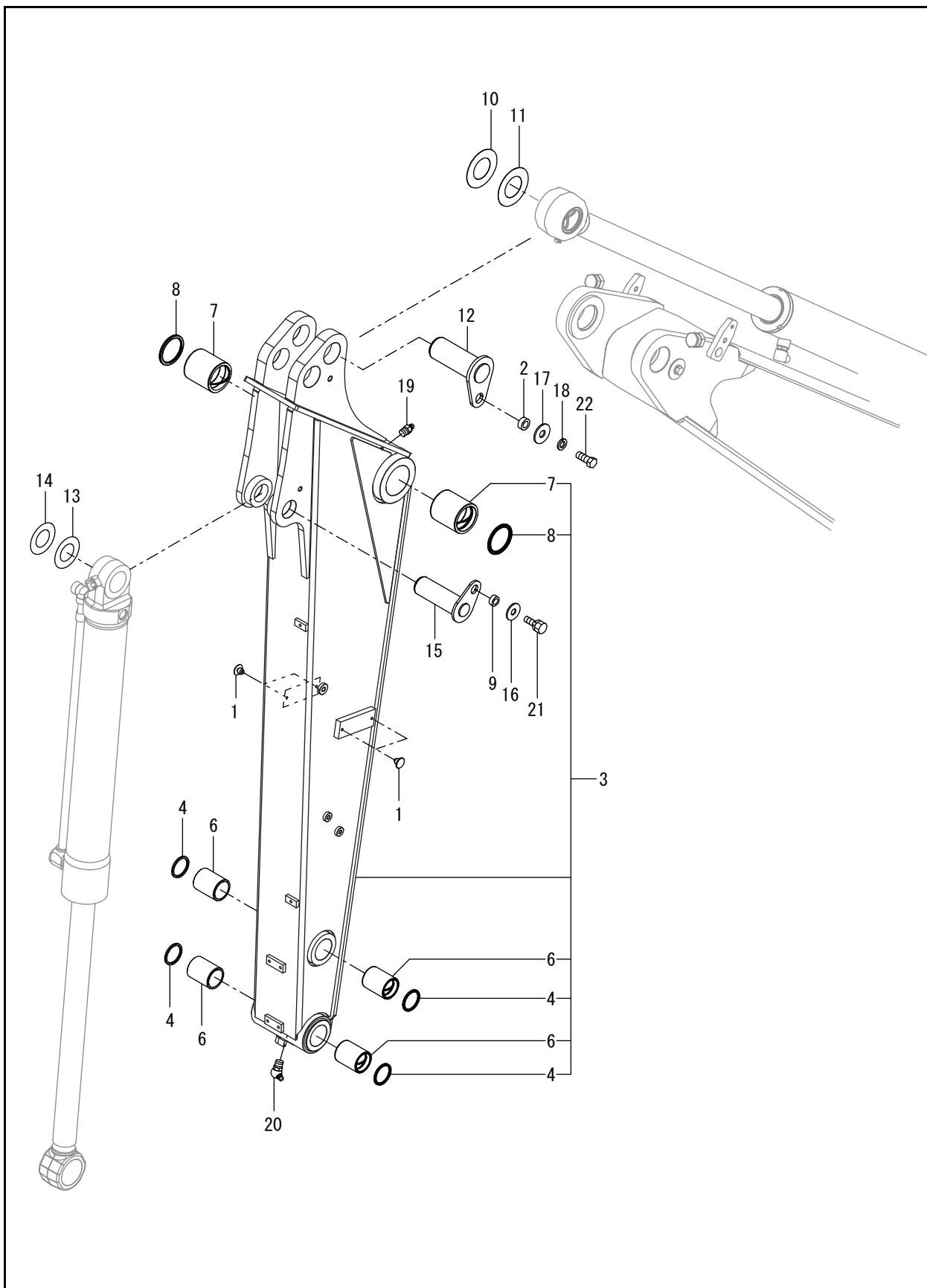
Z80 - COMPACT EXCAVATOR
FIG. 149 - BOOM

Ref. No.	Part No.	Description	Ref. No.
1	50280845	SPACER	1
2	50286401	BOOM ASSY/GEHL (replacement also requires label 5A)	1
4	50281497	BUSH, 80X95 A	2
5	50280878	SEAL 80X95X5,DUST	2
5A	50280924	LABEL, BOOM US *	1
6	50281313	PIN ASSY, 70 X 315	1
7	50280989	PIN 60X243	1
8	50281314	SHIM 60X100X0.8	1
9	50281315	SHIM 60X100X0.5	1
10	50280991	WASHER	1
11	50281055	SIMM 70X130X0.8	1
12	50280993	PIN 80X435	1
13	50280998	WASHER 15X90X6	1
14	50280882	SHIM 70X135X0.5	1
15	50280883	SHIM 80X155X0.5	1
16	50280884	SHIM 80X150X1.2	1
17	50282389	WASHER, 14	2
18	188712	SPRING/WASHER 14	4
19	50282498	NIPPLE B,GREASE	2
20	50282566	BOLT M14X 25 PLATED	2
21	50282567	BOLT M14X 35 PLATED	2

NOTE: * Label shown on Page 4.

Z80 - COMPACT EXCAVATOR

FIG. 151 - ARM



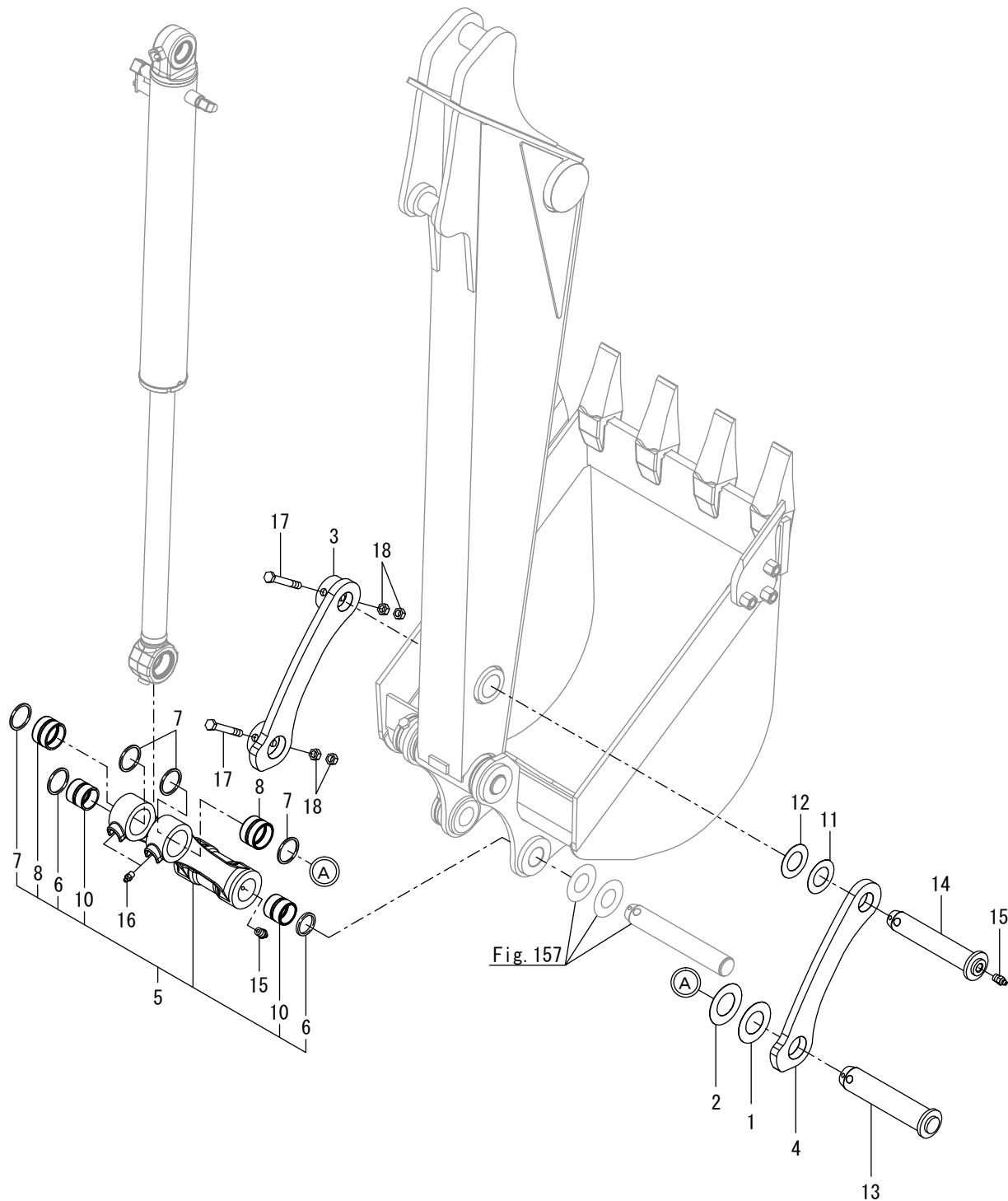
Z80 - COMPACT EXCAVATOR
FIG. 151 - ARM

Ref. No.	Part No.	Description	Ref. No.
1	50281050	CLIP	4
2	50280845	SPACER	1
3	50286403	ARM ASSY/GEHL (replacement also requires labels 8A, 8B)	1
4	50281061	SEAL 50X60X4,DUST	4
6	50280987	BUSHING 50X75	4
7	50280879	BUSHING 70-85	2
8	50280880	SEAL 70X85X6,DUST	2
8A	50281176	LABEL, FINGER US *	1
8B	50281181	LABEL,LOCK PIN(US *	1
9	50280892	SPACER	1
10	50280910	SHIM 60X110X0.8	1
11	50280911	SHIM	1
12	50280990	PIN 60X155	1
13	50280899	SHIM 50X90X0.5	1
14	50280900	SHIM 50X90X1.2	1
15	50281144	PIN 50X153 ASSY	1
16	50282388	WASHER 12	1
17	50282389	WASHER, 14	1
18	188712	SPRING/WASHER 14	1
19	50282497	NIPPLE PT1/8,GREASE	1
20	50282498	NIPPLE B,GREASE	1
21	50282525	BOLT W/WASHER M12X30	1
22	50282567	BOLT M14X 35 PLATED	1

NOTE: * Labels shown on Page 10.

Z80 - COMPACT EXCAVATOR

FIG. 153 - BUCKET ARM & LINK

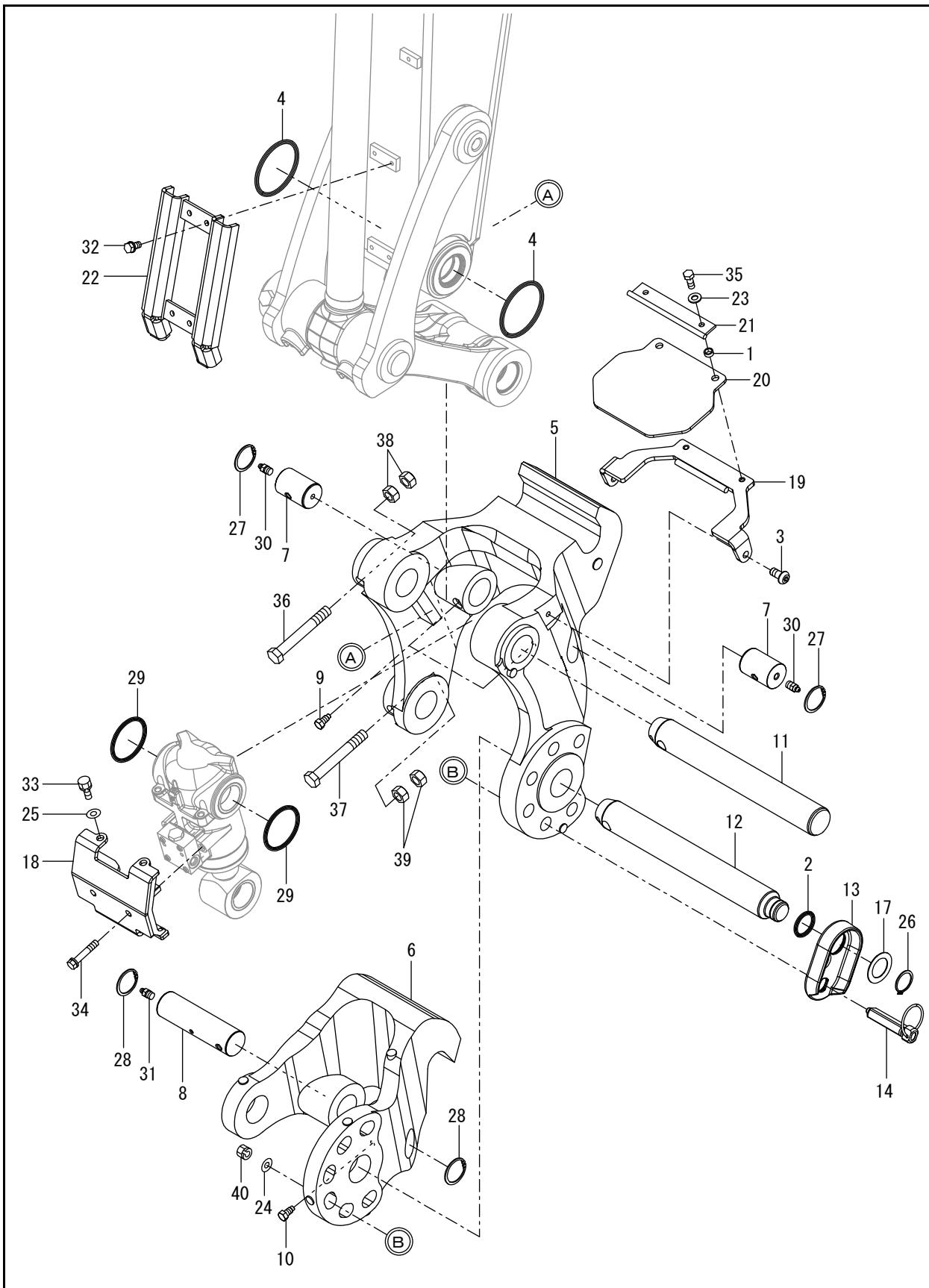


Z80 - COMPACT EXCAVATOR
FIG. 153 - BUCKET ARM & LINK

Ref. No.	Part No.	Description	Ref. No.
1	50280910	SHIM 60X110X0.8	1
2	50280911	SHIM	1
3	50286191	BUCKET ARM RT	1
4	50286193	BUCKET ARM LT	1
5	50286217	BUCKET LINK ASSY	1
6	50281061	SEAL 50X60X4,DUST	2
7	50280901	SEAL 60X70X4 DUST	4
8	50281109	BUSHING 60X47	2
10	50280999	BUSHING 50X60X54.5	2
11	50280899	SHIM 50X90X0.5	1
12	50280900	SHIM 50X90X1.2	1
13	50281125	PIN 60X248	1
14	50281126	PIN 50X248	1
15	50282497	NIPPLE PT1/8,GREASE	3
16	50282497	NIPPLE PT1/8,GREASE	2
17	50282574	BOLT M16X120 PLATED	2
18	50282599	NUT M16	4

Z80 - COMPACT EXCAVATOR

FIG. 155 - QUICK COUPLER

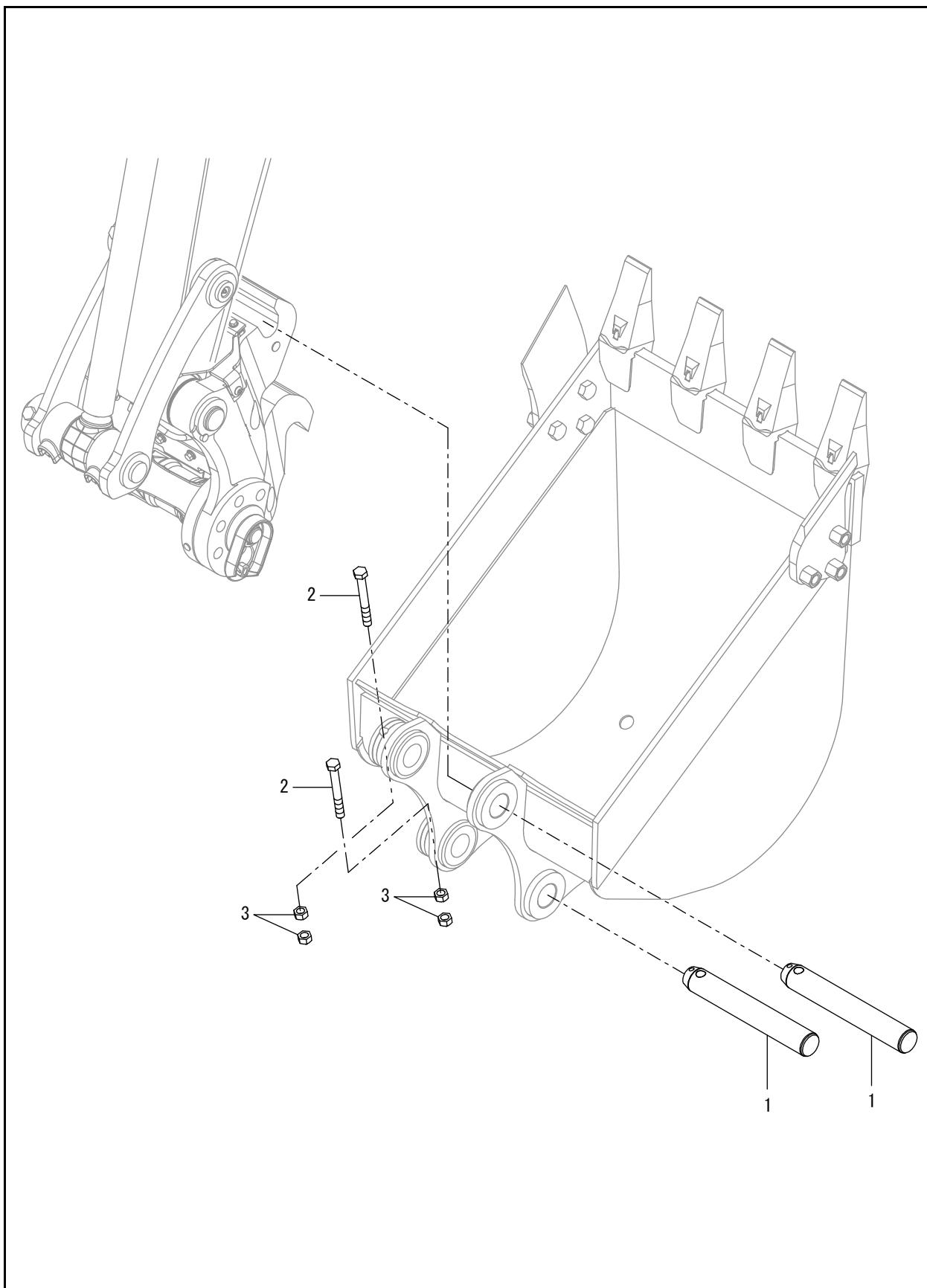


Z80 - COMPACT EXCAVATOR
FIG. 155 - QUICK COUPLER

Ref. No.	Part No.	Description	Ref. No.
1	50281363	COLLER 9X4	2
2	50280793	O-RING 27X5.7	1
3	50281073	BOLT M 10X20	2
4	50280881	O-RING 86X8	2
5	50286253	BRACKET	1
6	50286255	BARCKET	1
7	50281395	PIN 45X65	2
8	50281396	PIN 45X161	1
9	50281397	BOLT	2
10	50281397	BOLT	1
11	50281398	PIN 50X345	1
12	50281399	PIN 50X373	1
13	50286257	LOCK PLATE	1
14	50281401	PIN,LOCK	1
17	50281378	COLLAR 35.5X55X1.2	1
18	50281402	HITCH COVER	1
19	50286259	GUARD	1
20	50281404	PLATE,RUBBER	1
21	50286261	PLATE	1
22	50286263	ARM COVER	1
23	50282380	WASHER 8, POLISHED	2
24	138111	WASHER/POLISHED	1
25	138111	WASHER/POLISHED	2
26	50282400	CIRCLIP 35	1
27	50282407	CIRCLIP 45	2
28	50282407	CIRCLIP 45	2
29	50282464	O-RING 1A P-70.0	2
30	50282497	NIPPLE PT1/8,GREASE	2
31	50282497	NIPPLE PT1/8,GREASE	1
32	50282506	BOLT W/WASHER M8X16	4
33	50282516	BOLT W/WASHER M10X25	2
34	50282521	BOLT M10X 50	2
35	50282562	BOLT M 8X 20 PLATED	2
36	50282574	BOLT M16X120 PLATED	1
37	50282574	BOLT M16X120 PLATED	1
38	50282599	NUT M16	2
39	50282599	NUT M16	2
40	50282602	LOCK NUT M10 PLATED	1

Z80 - COMPACT EXCAVATOR

FIG. 157 - BUCKET PIN

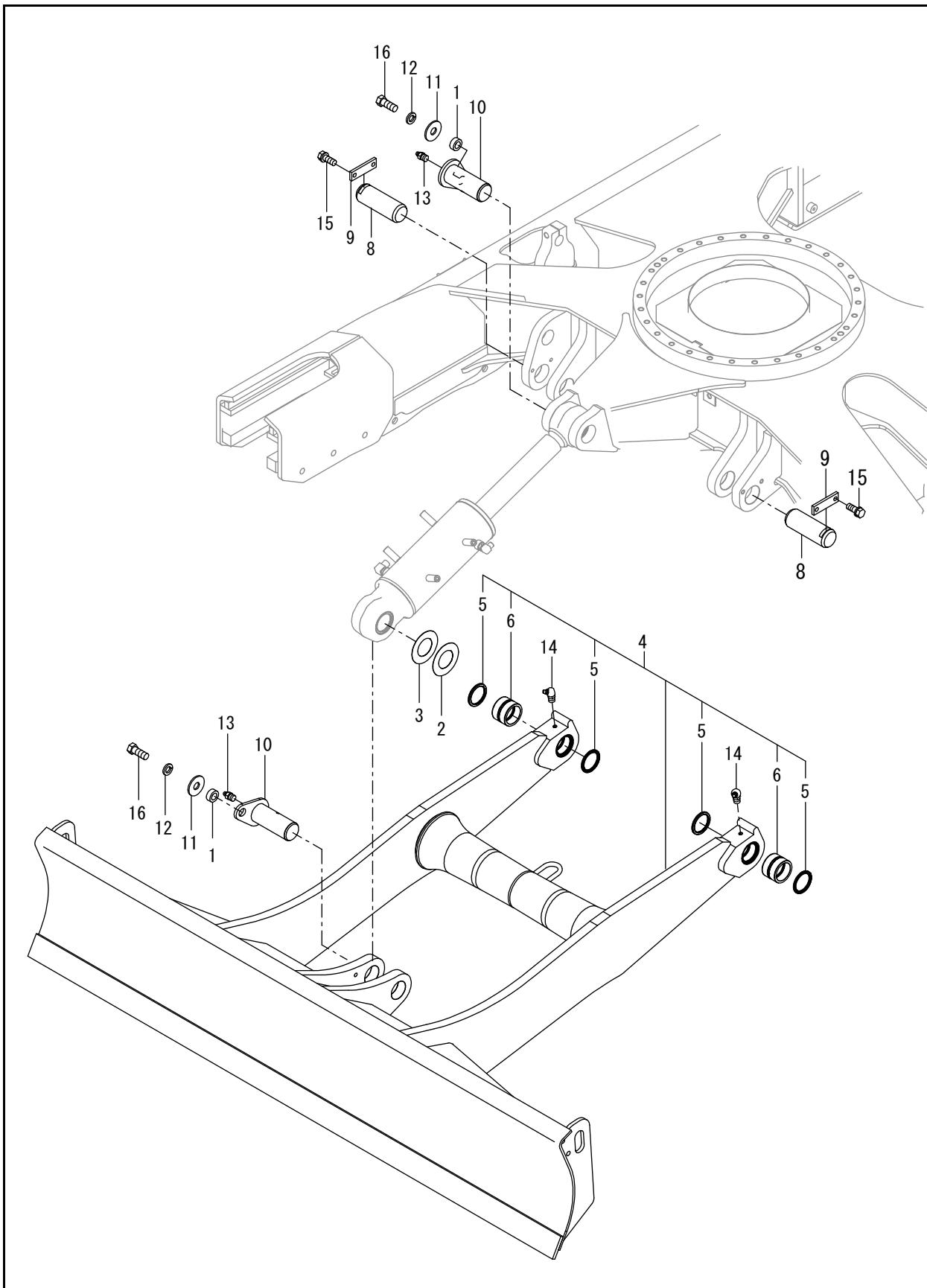


Z80 - COMPACT EXCAVATOR
FIG. 157 - BUCKET PIN

Ref. No.	Part No.	Description	Ref. No.
1	50281392	PIN 50X301	2
2	50282554	BOLT 16*130	2
3	50282599	NUT M16	4

Z80 - COMPACT EXCAVATOR

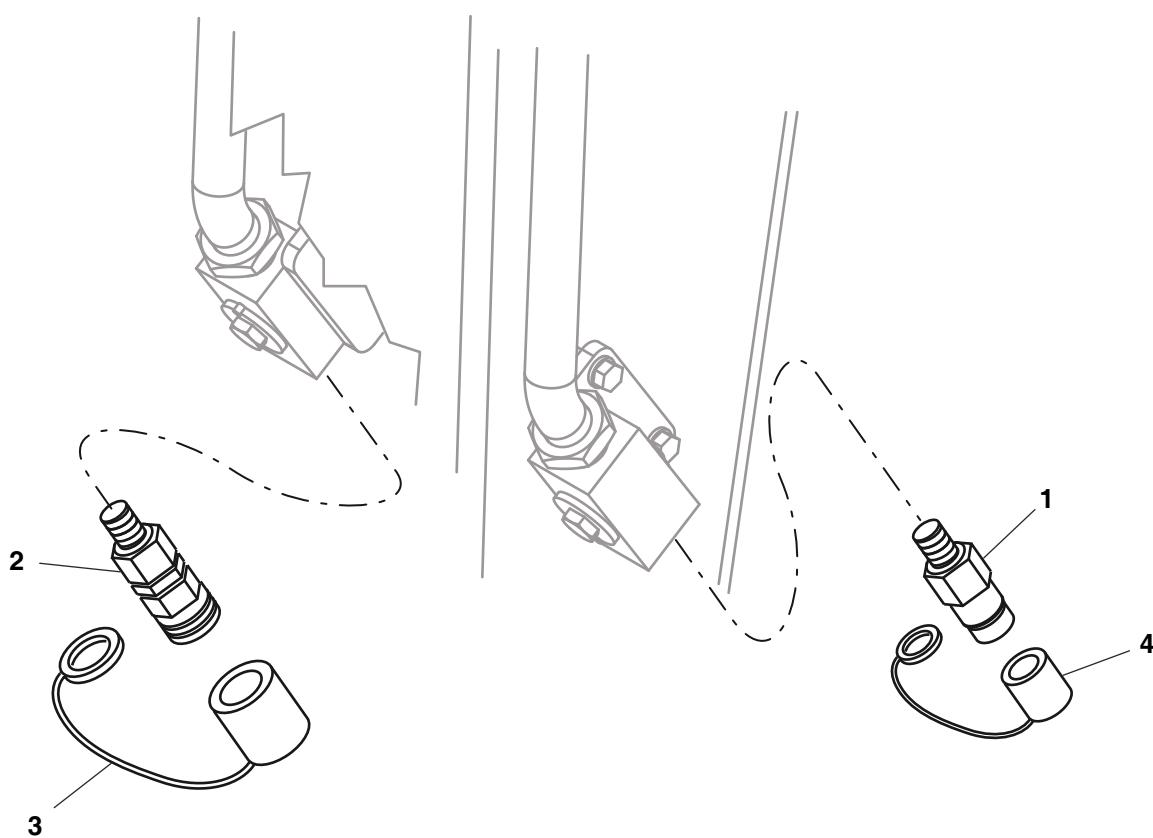
FIG. 158 - BLADE



Z80 - COMPACT EXCAVATOR
FIG. 158 - BLADE

Ref. No.	Part No.	Description	Ref. No.
1	50280845	SPACER	2
2	50280910	SHIM 60X110X0.8	1
3	50280911	SHIM	1
4	50282344	BLADE ASSY	1
5	50280749	SEAL 60 X 75 X 5	4
6	50280877	BUSHING 60X55	2
8	50280885	PIN	2
9	50280886	LOCK PLATE	2
10	50281000	PIN 60X147	2
11	50282389	WASHER, 14	2
12	188712	SPRING/WASHER 14	2
13	50282497	NIPPLE PT1/8,GREASE	2
14	50282498	NIPPLE B,GREASE	2
15	50282525	BOLT W/WASHER M12X30	4
16	50282567	BOLT M14X 35 PLATED	2

Z80 - COMPACT EXCAVATOR
HYDRAULIC QUICK-CONNECT COUPLERS



**Z80 - COMPACT EXCAVATOR
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 258 for related components.

**Z80 - COMPACT EXCAVATOR
NOTES**

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50288664	171	11	50288702	171	54	50288740	185	13
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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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