

**GEHL**®

# Model Z17

Form No.  
50940094  
Revision B  
Dec. 2012

## Compact Excavator



# Parts Manual

# INTRODUCTION

## General

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

- 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.

## 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.

## Serial Number Locations and Information

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

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

## 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.

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

# INTRODUCTION

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

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

## Reference Number Sequencing in Parts Lists

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

FOR EXAMPLE (Ref. Nos.):

**5** = Original version/configuration of a part or assembly

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

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

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

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

# INTRODUCTION

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

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

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

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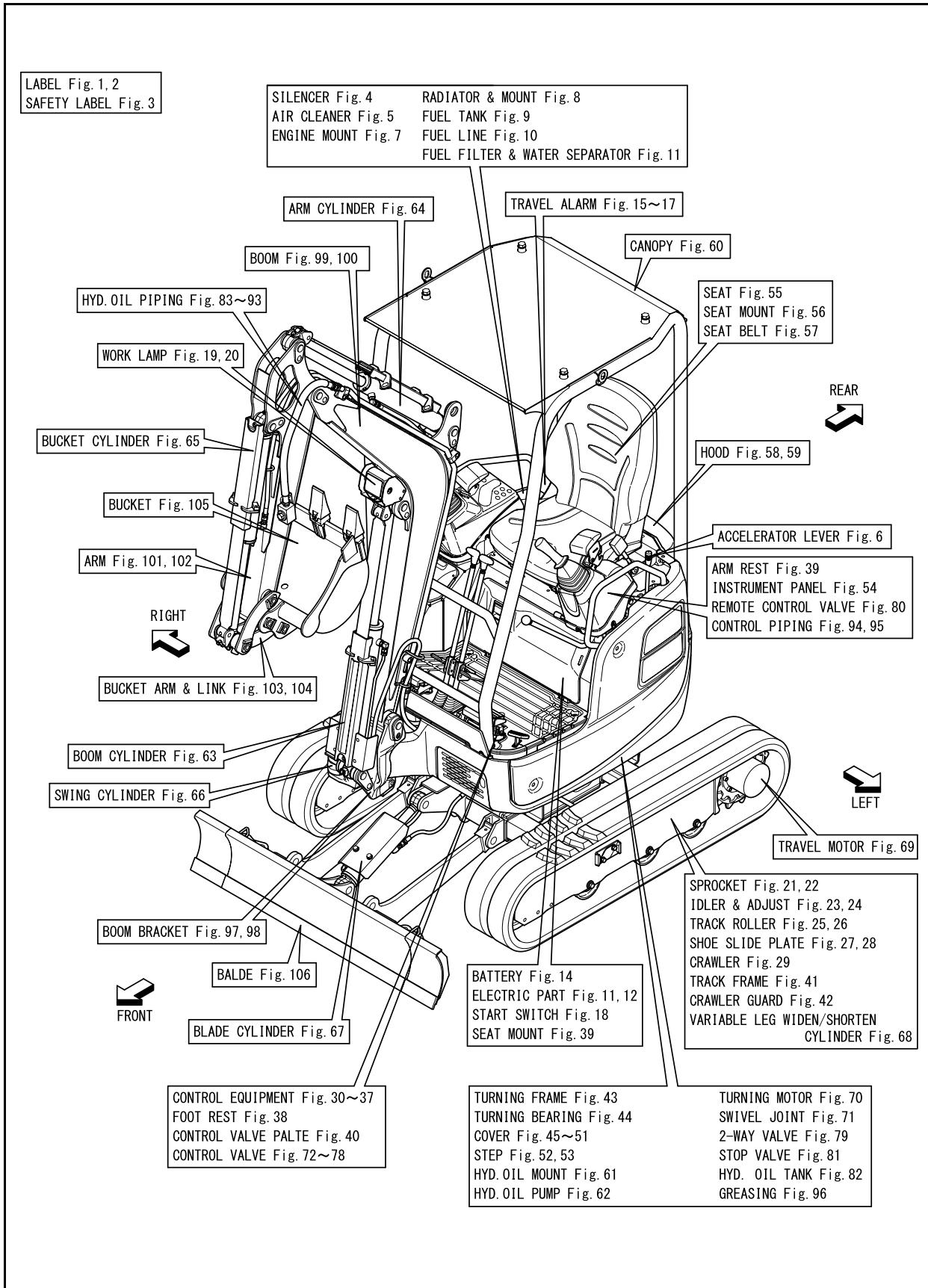
**Z17 - COMPACT EXCAVATOR  
SPECIAL TOOLS, PAINT**

**Ref.**

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

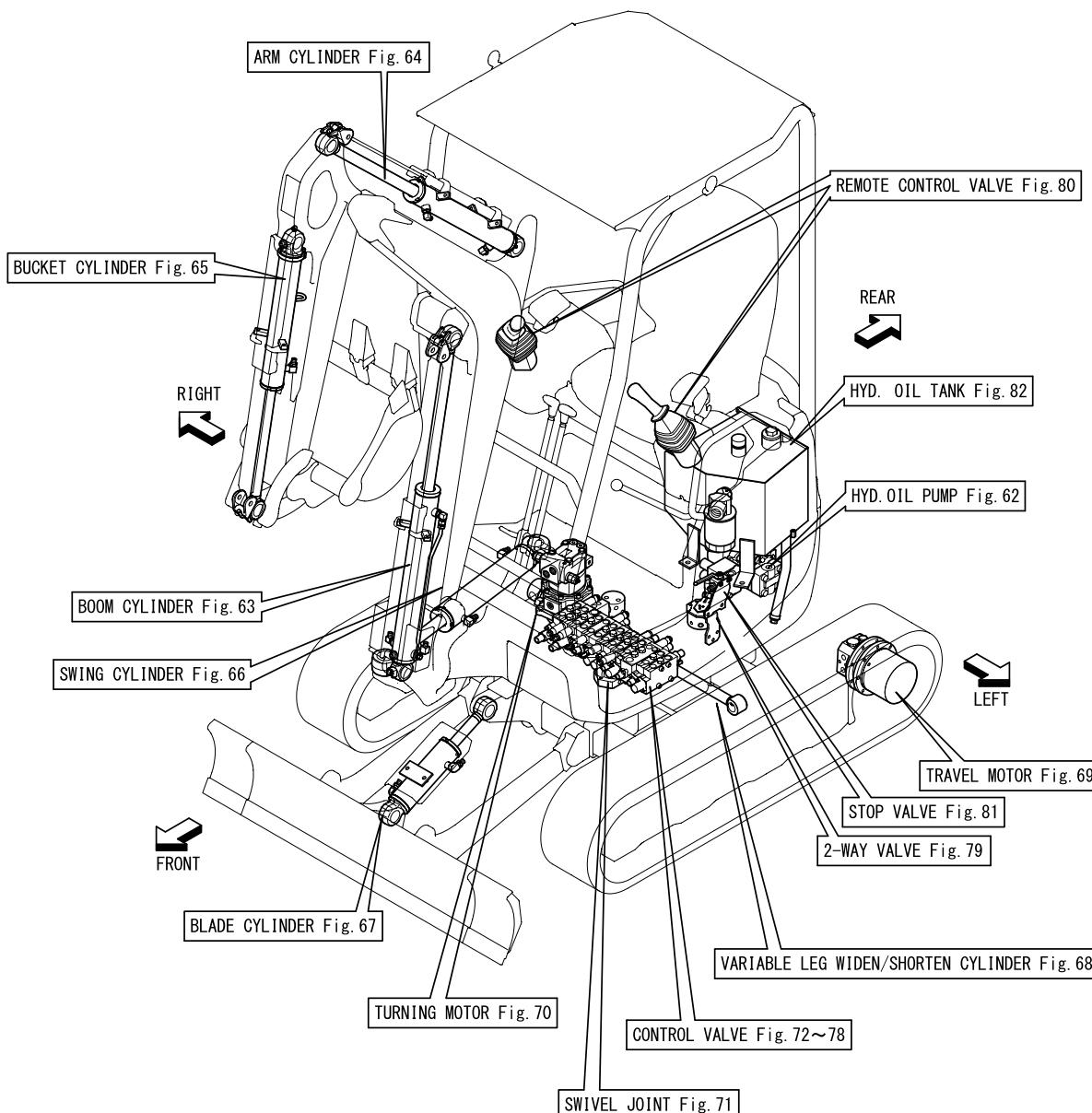
# Z17 - COMPACT EXCAVATOR

## FIGURE INDEX (1) - MAIN PARTS



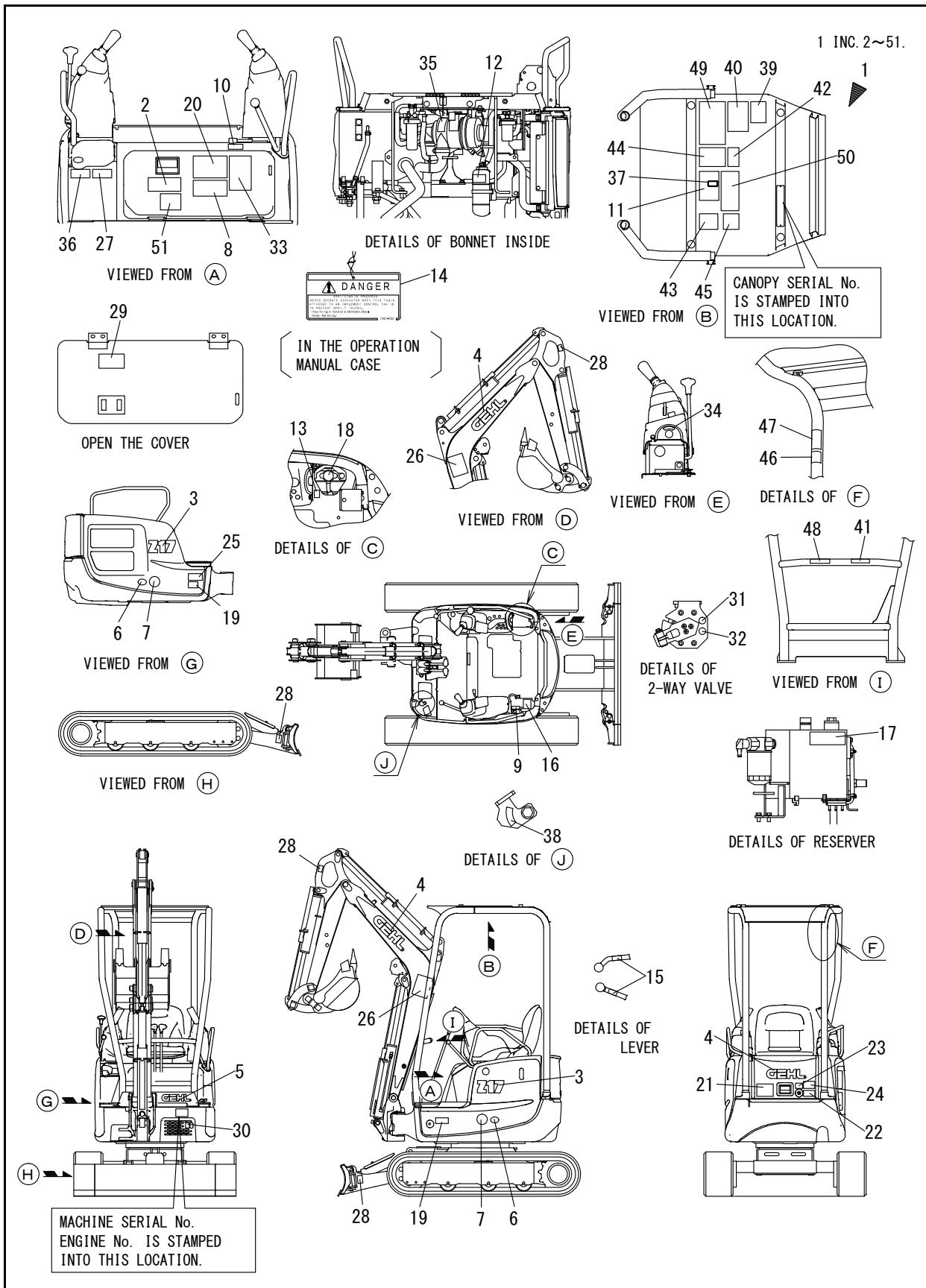
**Z17 - COMPACT EXCAVATOR  
FIGURE INDEX (2) - HYDRAULIC SECTION**

HYD. OIL PIPING Fig. 83~93  
CONTROL PIPING Fig. 94, 95



# Z17 - COMPACT EXCAVATOR

## FIG. 1 - LABEL

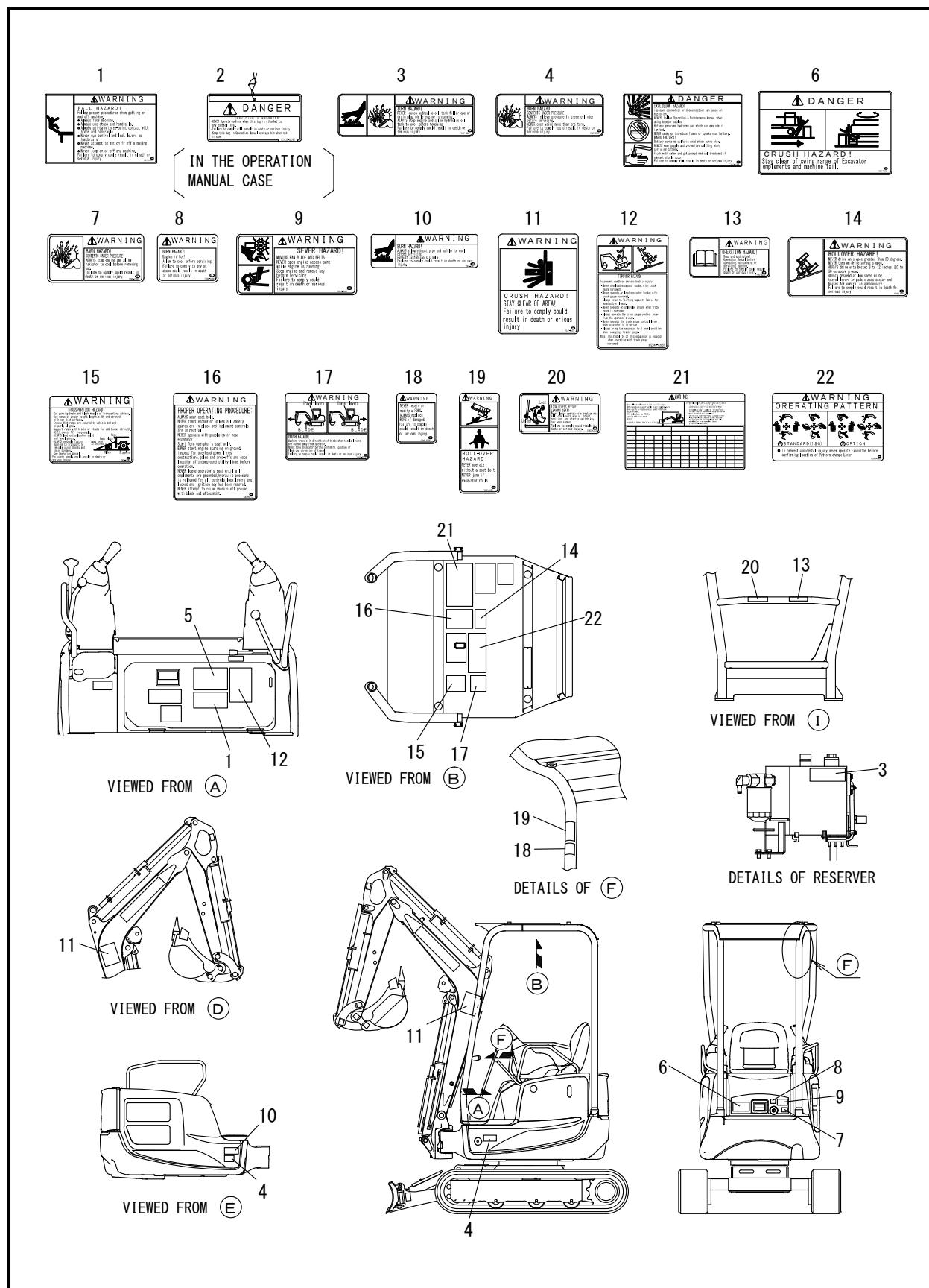


**Z17 - COMPACT EXCAVATOR**  
**FIG. 1 - LABEL**

Ref.	No.	Part No.	Description	Qty.	Ref.	No.	Part No.	Description	Qty.
	2	50285432	LABEL, SPECIFICATION	1		30	50285424	LABEL, GREASE	1
	3	50300788	DECAL/Z17	2		31	50281038	LABEL	1
	4	183963	DECAL/GEHL 3.75 X 15.92	3		32	50281039	LABEL	1
	5	184043	DECAL/GEHL 3.75 X 15.92 (WHITE)	1		33	50285313	LABEL, VARIABLE US	1
	7	50300780	DECAL/ZERO TAIL	2		34	50281498	LABEL,STARTER	1
	8	50281172	LABEL, SUPPORT US	1		35	50280797	LABEL, AIR CLEANER	1
	9	50285406	LABEL, ACCEL	1		36	197868	LABEL/FUEL OIL NOTI	1
	10	50285431	LABEL,W/S OPERATION	1		37	50285404	LABEL, P.T.O.	1
	11	50283251	LABEL	1		38	50281130	LABEL,LOCK	1
	12	50281458	LABEL, SUB-TANK US	1		39	50285394	LABEL,GREASE	1
	13	50281459	LABEL,ANTI-FREEZING	1		40	50285434	LABEL,OIL & WATER	1
	14	50281018	TAG ASSY, CAUTION	1		41	50281019	LABEL, MANUAL US	1
	15	50280917	LABEL,LOCK	2		42	50281020	LABEL,SLOPE US	1
	16	50281149	LABEL,HYD.OIL US	1		43	50281022	LABEL, TRANSPORT US	1
	17	50281021	LABEL, HYD.OIL TANK	1		44	50281025	LABEL, NEUTRAL US	1
	18	50281147	LABEL	1		45	50281030	LABEL, STEERING US	1
	19	50281023	LABEL, GREASE CYL.	2		46	50281031	LABEL, ROPS US	1
	20	50281024	LABEL, BATTERY US	1		47	50281032	LABEL, SEAT BELT US	1
	21	50285436	LABEL,SWING AREA US	1		48	50281033	LABEL, LEVER LOCK US	1
	22	50281027	LABEL, RADIATOR US	1		49	50285438	LABEL,LIFT US	1
	23	50281028	LABEL, ENG,COVER US	1		50	50281037	LABEL, 2-WAY US	1
	24	50281425	LABEL, ENG ROOM	1		51	50282883	LABEL, CRAWLER US	1
	25	50281029	LABEL, MUFFLER US	1					
	26	50282884	LABEL, BOOM US	2					
	27	50281034	LABEL, FUEL US	1					
	28	50281035	LABEL, HOOK US	4					
	29	50285328	LABEL,FUSE	1					

# Z17 - COMPACT EXCAVATOR

## FIG. 3 - SAFETY LABEL



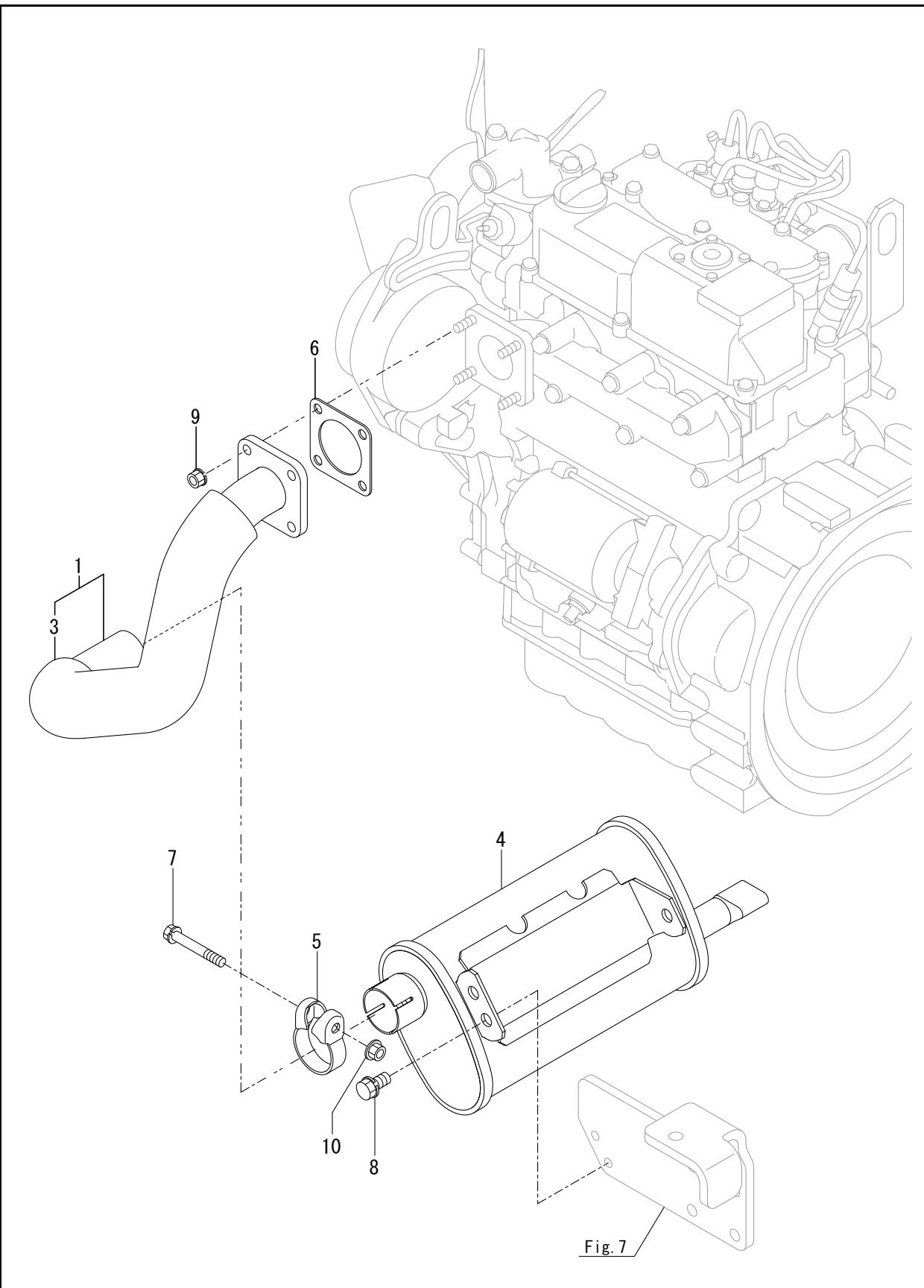
**Z17 - COMPACT EXCAVATOR**  
**FIG. 3 - SAFETY LABEL**

Ref.

No.	Part No.	Description	Qty.
1	50281172	LABEL, SUPPORT US	1
2	50281018	TAG ASSY, CAUTION	1
3	50281021	LABEL, HYD.OIL TANK	1
4	50281023	LABEL, GREASE CYL.	2
5	50281024	LABEL, BATTERY US	1
6	50285436	LABEL,SWING AREA US	1
7	50281027	LABEL, RADIATOR US	1
8	50281028	LABEL, ENG,COVER US	1
9	50281425	LABEL, ENG ROOM	1
10	50281029	LABEL, MUFFLER US	1
11	50282884	LABEL, BOOM US	2
12	50285313	LABEL, VARIABLE US	1
13	50281019	LABEL, MANUAL US	1
14	50281020	LABEL,SLOPE US	1
15	50281022	LABEL, TRANSPORT US	1
16	50281025	LABEL, NEUTRAL US	1
17	50281030	LABEL, STEERING US	1
18	50281031	LABEL, ROPS US	1
19	50281032	LABEL, SEAT BELT US	1
20	50281033	LABEL, LEVER LOCK US	1
21	50285438	LABEL, LIFT US	1
22	50281037	LABEL, 2-WAY US	1

# Z17 - COMPACT EXCAVATOR

## FIG. 4 - SILENCER



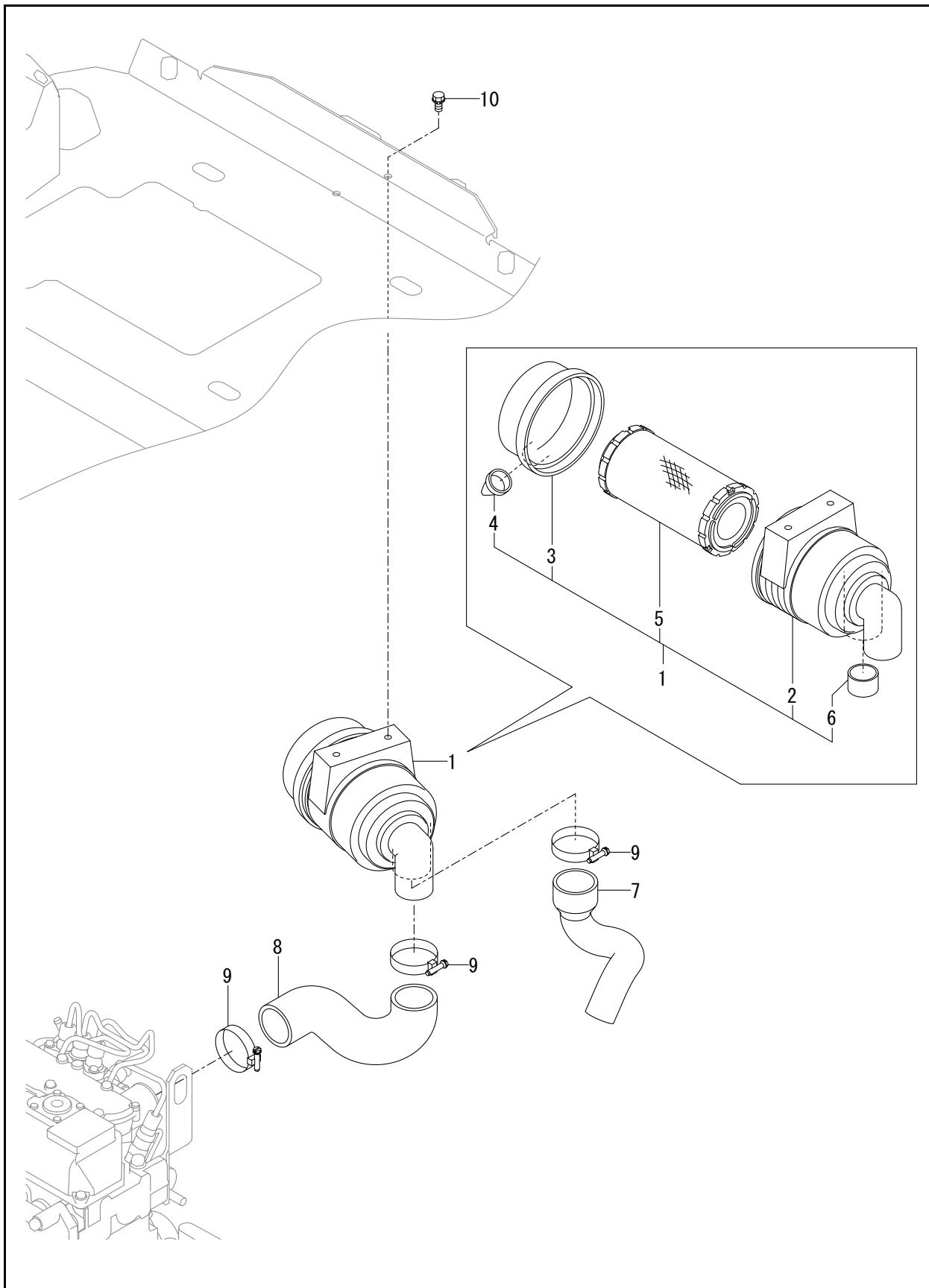
**Z17 - COMPACT EXCAVATOR**  
**FIG. 4 - SILENCER**

Ref.

No.	Part No.	Description	Qty.
1	50285447	PIPE ASSY, INLET	1
3	50285292	INSULANT,THERMAL	1
4	50285448	SILENCER ASSY	1
5	50285449	CLUMP	1
6	425-36251	GASKET	1
7	50282511	BOLT M 8X 55	1
8	50282514	BOLT M10X 16	3
9	50282548	NUT M 8	4
10	425-35206	NUT M8 W/WASHER	1

# Z17 - COMPACT EXCAVATOR

## FIG. 5 - AIR CLEANER



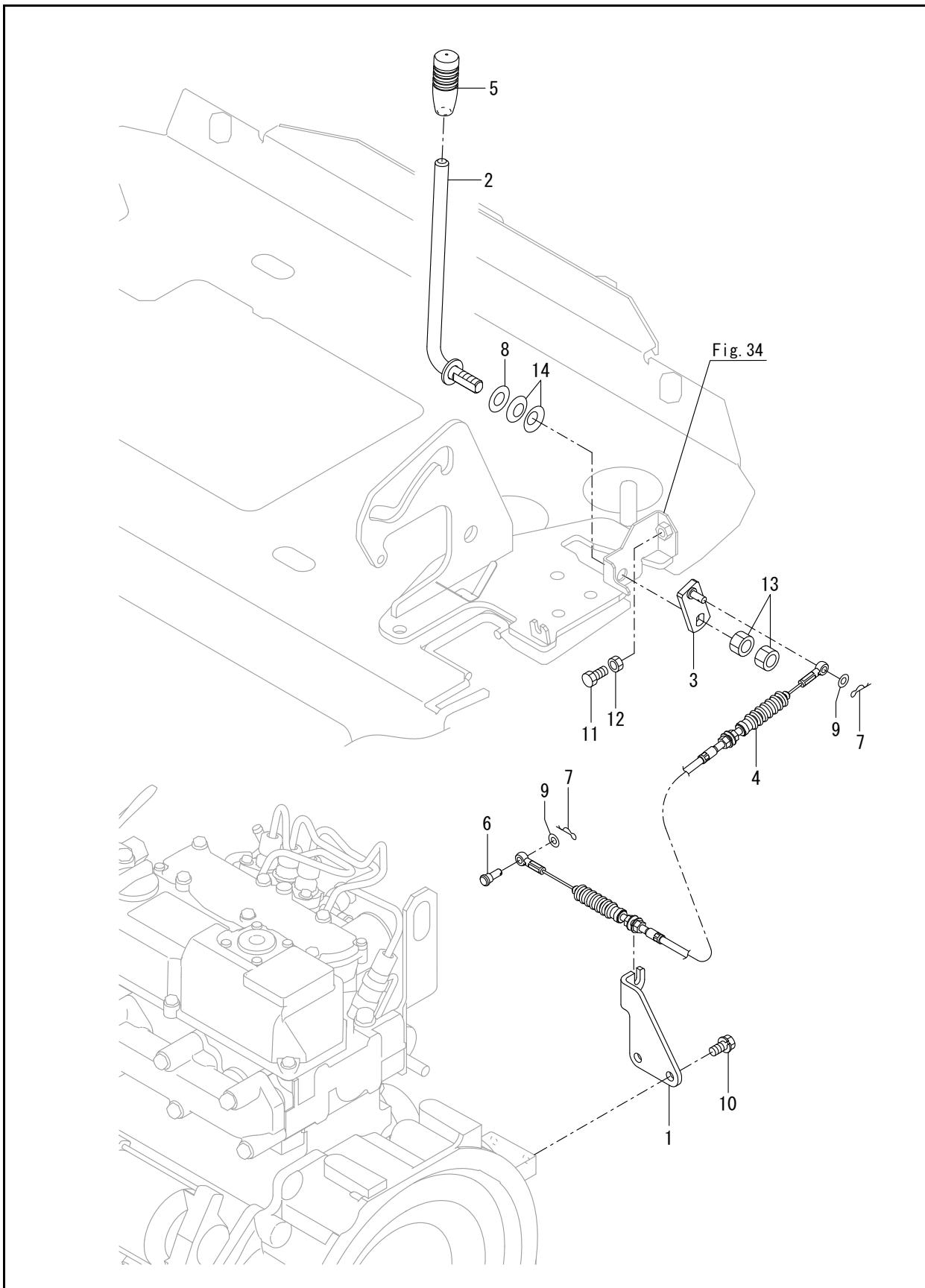
**Z17 - COMPACT EXCAVATOR**  
**FIG. 5 - AIR CLEANER**

Ref.

No.	Part No.	Description	Qty.
1	50285329	AIR CLEANER	1
2	50285330	BODY	1
3	50285203	COVER ASSY.	1
4	50280727	VALVE, UNLOADER	1
5	50285205	ELEMENT	1
6	50285202	RING	1
7	50285450	HOSE, AIR CLEANER	1
8	50285451	HOSE, AIR CLEANER	1
9	425-36159	CLAMP 60	3
10	50282506	BOLT W/WASHER M8X16	2

# Z17 - COMPACT EXCAVATOR

## FIG. 6 - ACCELERATOR LEVER



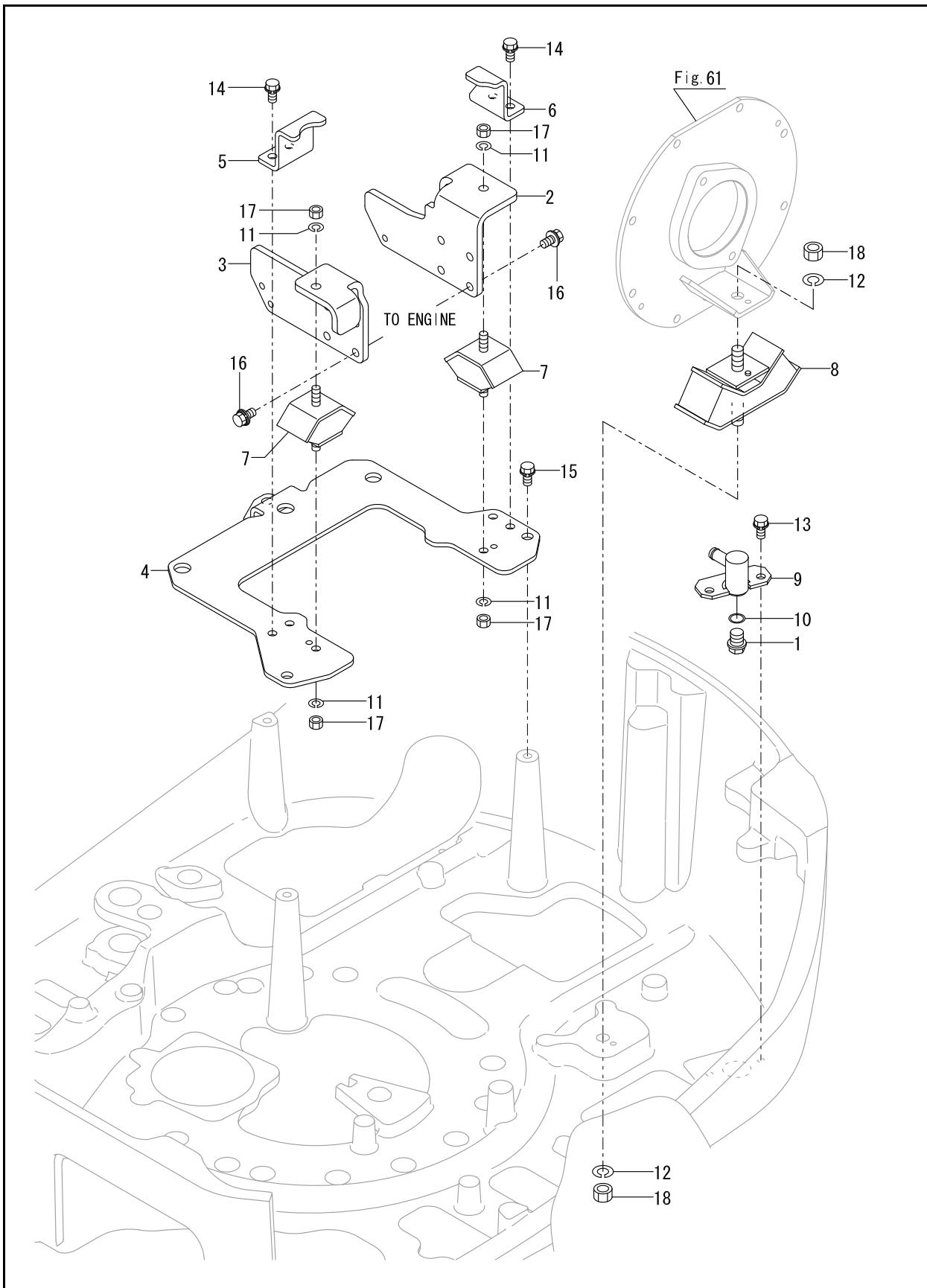
**Z17 - COMPACT EXCAVATOR**  
**FIG. 6 - ACCELERATOR LEVER**

Ref.

No.	Part No.	Description	Qty.
1	50285452	BRACKET, WIRE	1
2	50285453	LEVER ASSY, ACCEL	1
3	50285455	ARM ASSY, ACCEL	1
4	50285456	CABLE, ACCELERATOR	1
5	50285405	GRIP, ACCEL	1
6	50282690	PIN	1
7	50284017	PIN 6, COME-OFF SNAP	2
8	50285414	WASHER 12.5X26	1
9	50282379	WASHER 6, POLISHED	2
10	50282506	BOLT W/WASHER M8X16	2
11	50285911	BOLT M8 X 25 PLATED	1
12	50282596	NUT M 8	1
13	50285924	LOCK NUT 12	2
14	50285934	SPRING 12	2

# Z17 - COMPACT EXCAVATOR

## FIG. 7 - ENGINE MOUNT



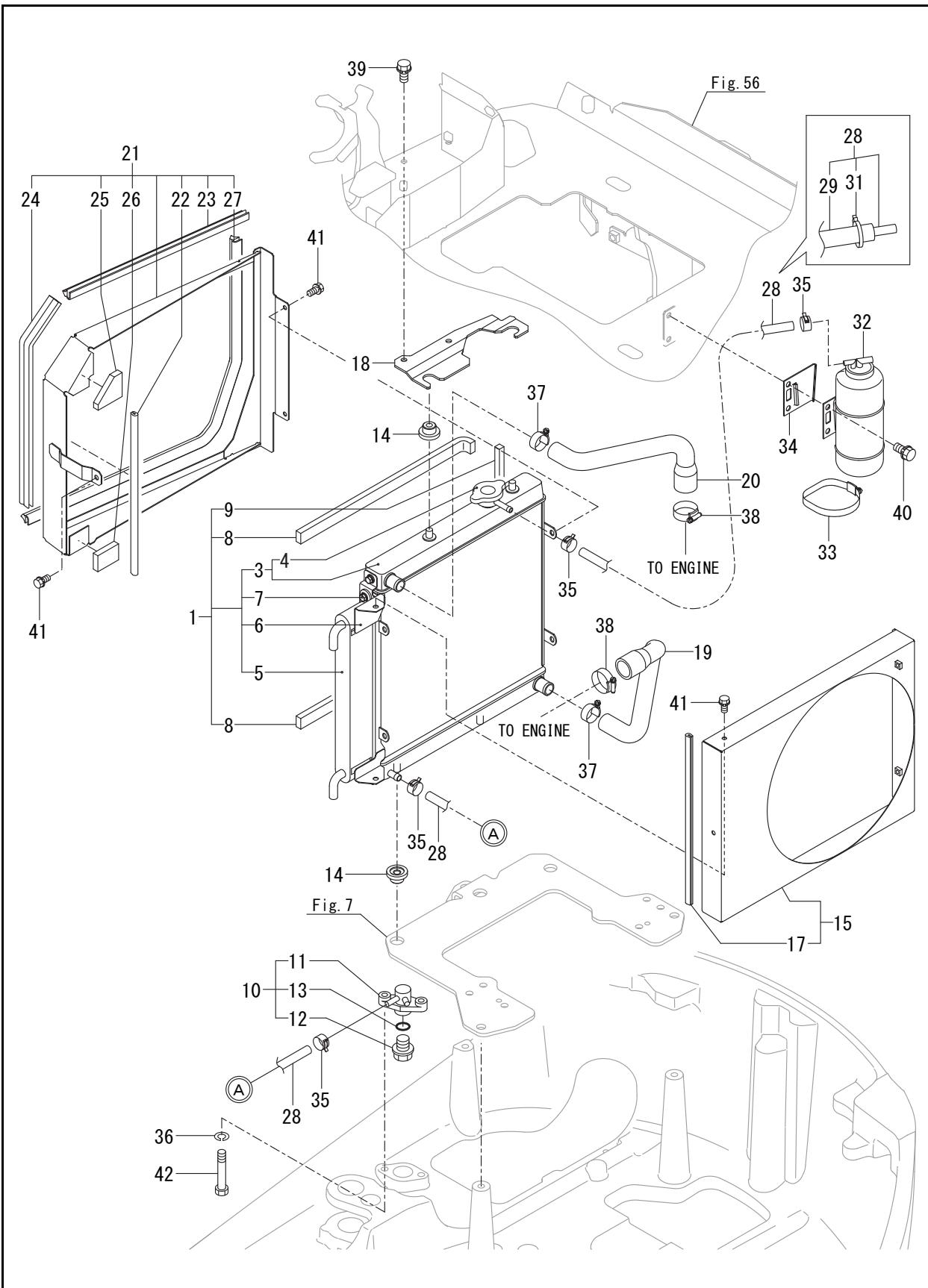
**Z17 - COMPACT EXCAVATOR**  
**FIG. 7 - ENGINE MOUNT**

Ref.

No.	Part No.	Description	Qty.
1	425-35495	PLUG 16	1
2	50285457	MOUNT FL,ENGINE	1
3	50285458	MOUNT FR,ENGINE	1
4	50285459	MOUNT ASSY,ENGINE	1
5	50285460	STOPPER F	1
6	50285461	STOPPER R	1
7	50285291	RUBBER, ANTI VIBRAT.	2
8	50285321	ABSOBER,SHOCK 290K	1
9	50285425	BLOCK ASSY, DRAIN	1
10	425-35949	SEAL WASHER 16S	1
11	50282393	SPRING WASHER 10	4
12	188712	SPRING/WASHER 14	2
13	50282515	BOLT W/WASHER M10X20	2
14	50282516	BOLT W/WASHER M10X25	4
15	50282516	BOLT W/WASHER M10X25	3
16	50282539	BOLT 10X25 W/PLW+SPW	8
17	50282597	NUT 10	4
18	50285923	NUT M14	2

## Z17 - COMPACT EXCAVATOR

## **FIG. 8 - RADIATOR & MOUNT**



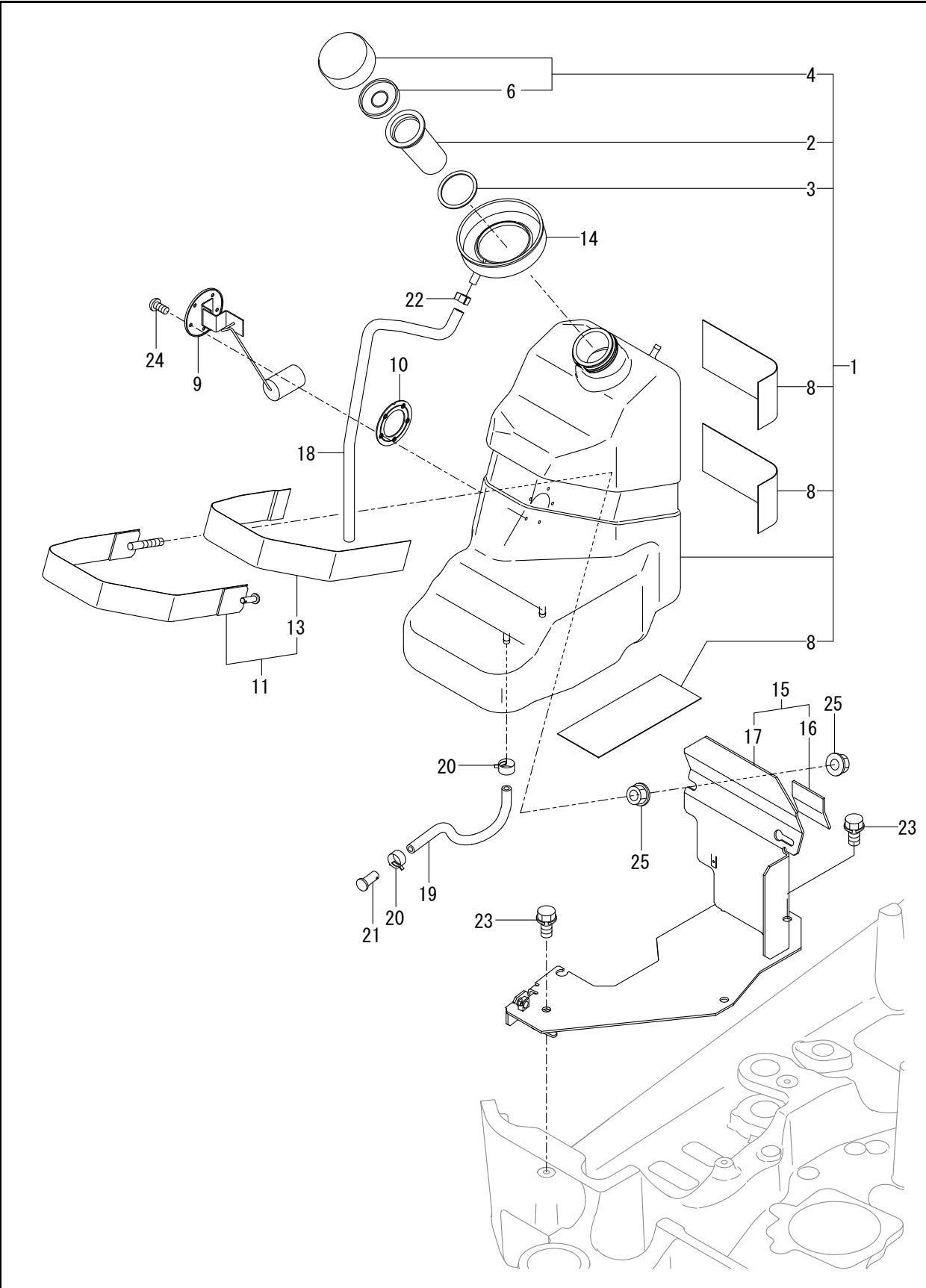
**Z17 - COMPACT EXCAVATOR**  
**FIG. 8 - RADIATOR & MOUNT**

Ref.

No.	Part No.	Description	Qty.
1	50285462	RADIATOR ASSY	1
3	50286477	RADIATOR ASSY	1
4	50286118	RADIATOR CAP	1
5	50286478	OIL COOLER ASSY	1
6	50286479	SUPPORT ASSY	1
7	50282530	BOLT M 6X 12	5
8	50285463	SEAL A	2
9	50285464	SEAL B	1
10	50281046	COCK ASSY,2-WAY	1
11	50281047	BODY	1
12	50280728	PLUG	1
13	425-34744	O-RING 1A P-16.0	1
14	50285314	ABSOBER,SHOCK	4
15	50285465	SHROUD ASSY	1
17	50285369	RUBBER 315	1
18	50285466	BRACKET ASSY,UP	1
19	50285467	PIPE, WATER	1
20	50285468	PIPE, WATER	1
21	50285470	DUCT ASSY,OC(GRAY49)	1
22	50285408	RUBBER, CUSHION 300	1
23	50285469	SEAL C	1
24	50285471	SEAL A,OC	1
25	50285472	SEAL B,OC	1
26	50285473	SEAL C,OC	1
27	50285474	SEAL D,OC	1
28	50280921	HOSE ASSY	2
29	50285297	TUBE, CORRUGATE	2
31	50284153	BAND 146	4
32	50285206	SUB-TANK ASSY	1
33	425-36235	BAND	1
34	50280729	BRACKET, SUB-TANK	1
35	425-34916	CLAMP 12	4
36	50282392	WASHER, 8	2
37	50282428	HOSE CLAMP 25	2
38	50282430	CLIP 41,HOSE	2
39	50282506	BOLT W/WASHER M8X16	2
40	50282506	BOLT W/WASHER M8X16	2
41	50282530	BOLT M 6X 12	5
42	50285913	BOLT M8 X 45 PLATED	2

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## FIG. 9 - FUEL TANK



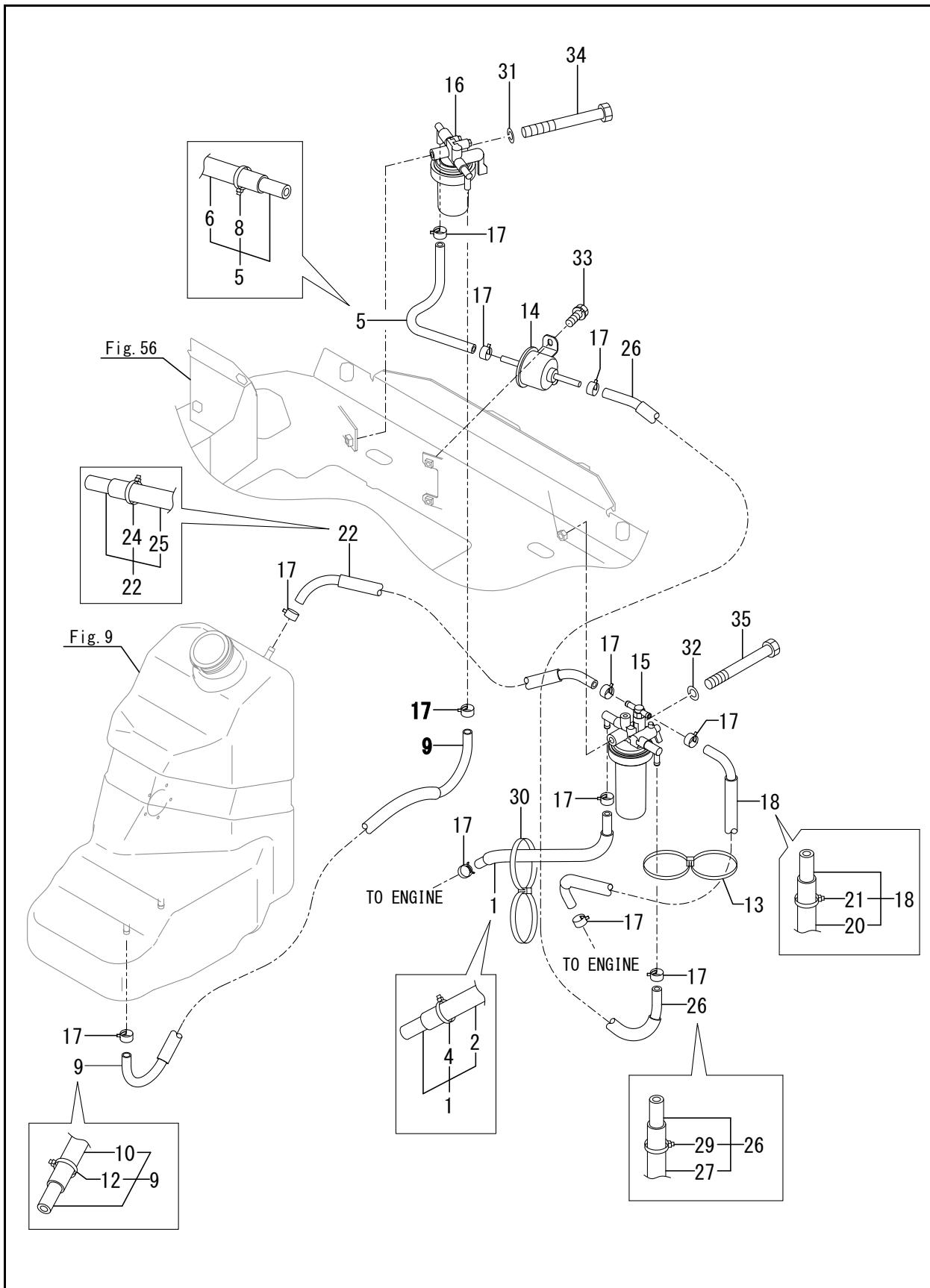
**Z17 - COMPACT EXCAVATOR**  
**FIG. 9 - FUEL TANK**

Ref.

No.	Part No.	Description	Qty.
1	50285475	TANK ASSY, FUEL	1
2	50285863	STRAINER, FUEL	1
3	50285864	GASKET	1
4	50285865	CAP, TANK	1
6	50285866	VALVE, VENT	1
8	50285420	RUBBER PLATE A	3
9	50285370	GAUGE UNIT, FUEL	1
10	50280854	GASKET	1
11	50285476	CLAMP ASSY, FUEL	1
13	50285477	PLATE, RUBBER	1
14	50282953	CUP,FUEL OIL	1
15	50286480	FUEL TANK SUPPORT	1
16	50281056	RUBBER PLATE	1
17	50285480	MOUNT ASSY,FUEL OIL	1
18	50285368	HOSE	1
19	50285279	HOSE, FUEL OIL	1
20	425-34916	CLAMP 12	2
21	50285885	PIN 8X 16	1
22	50282437	CLAMP 13,HOSE	1
23	50282515	BOLT W/WASHER M10X20	3
24	425-36271	SCREW M 5 X 12	5
25	50282578	U-NUT M10	2

# Z17 - COMPACT EXCAVATOR

## FIG. 10 - FUEL LINE



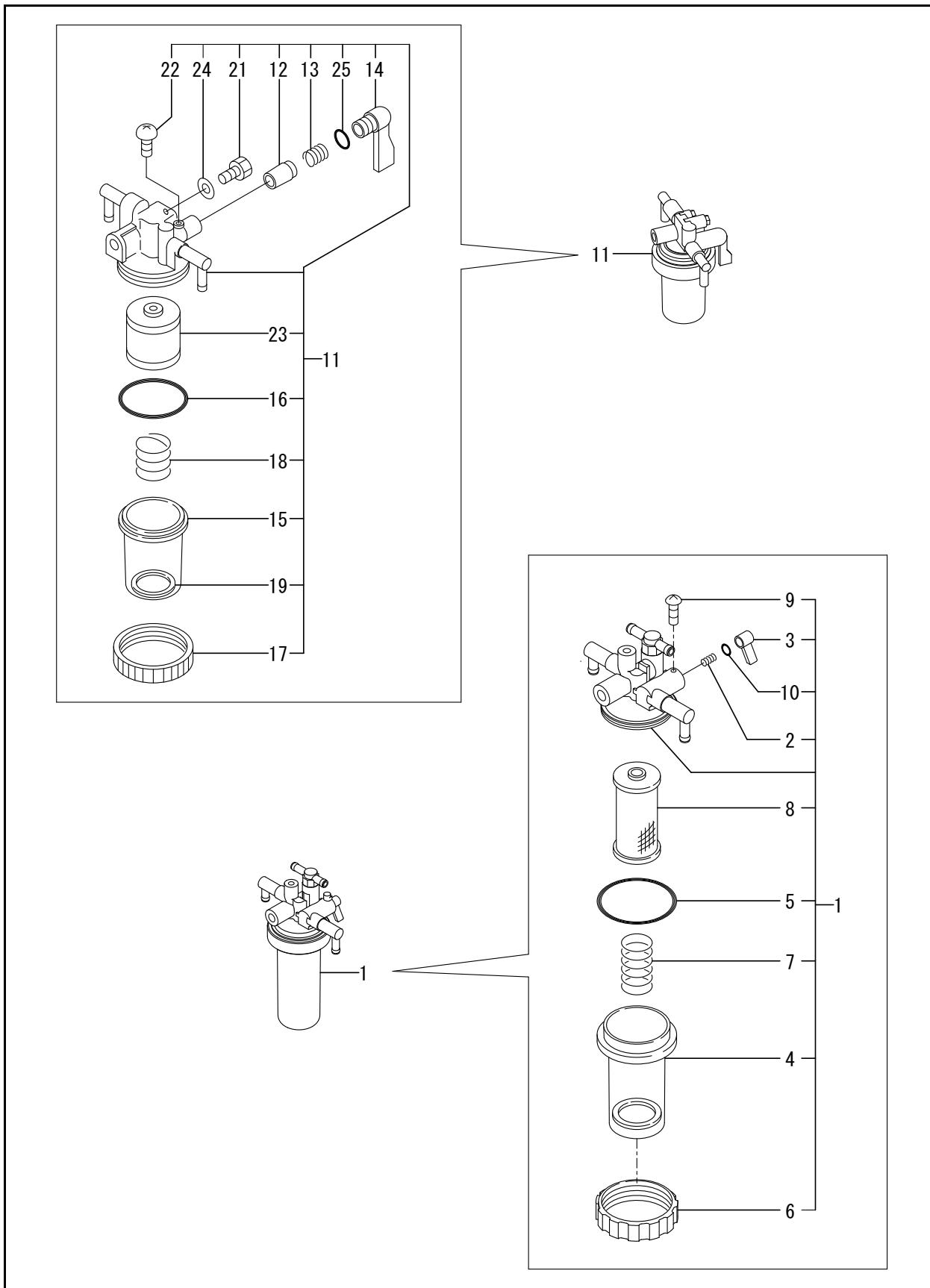
**Z17 - COMPACT EXCAVATOR**  
**FIG. 10 - FUEL LINE**

Ref.

No.	Part No.	Description	Qty.
1	50280921	HOSE ASSY	1
2	50285297	TUBE, CORRUGATE	1
4	50284153	BAND 146	2
5	50285478	HOSE, FUEL OIL	1
6	50285479	TUBE, CORRUGATE	1
8	50284153	BAND 146	2
9	50285371	HOSE, FUEL OIL	1
10	50285372	TUBE, CORRUGATE	1
12	50284153	BAND 146	2
13	50280802	BAND	1
14	186483	FUEL PUMP	1
15	203218	FILTER/FUEL ASSY (see Page 22 for details)	1
16	50286598	WATER SEPARATOR ASSY (see Page 22 for details)	1
17	425-34916	CLAMP 12	12
18	50282347	HOSE	1
20	50285859	TUBE, CORRUGATE	1
21	50284153	BAND 146	2
22	50285860	HOSE	1
24	50285861	TUBE, CORRUGATE	1
25	50284153	BAND 146	2
26	50285858	HOSE	1
27	50285857	TUBE, CORRUGATE	1
29	50284153	BAND 146	2
30	50286462	BAND	1
31	50282392	WASHER, 8	1
32	50282392	WASHER, 8	1
33	50282531	BOLT M 6X 16	2
34	50285915	BOLT M8 X 65 PLATED	1
35	50285915	BOLT M8 X 65 PLATED	1

# Z17 - COMPACT EXCAVATOR

## FIG. 11 - FUEL FILTER & WATER SEPARATOR

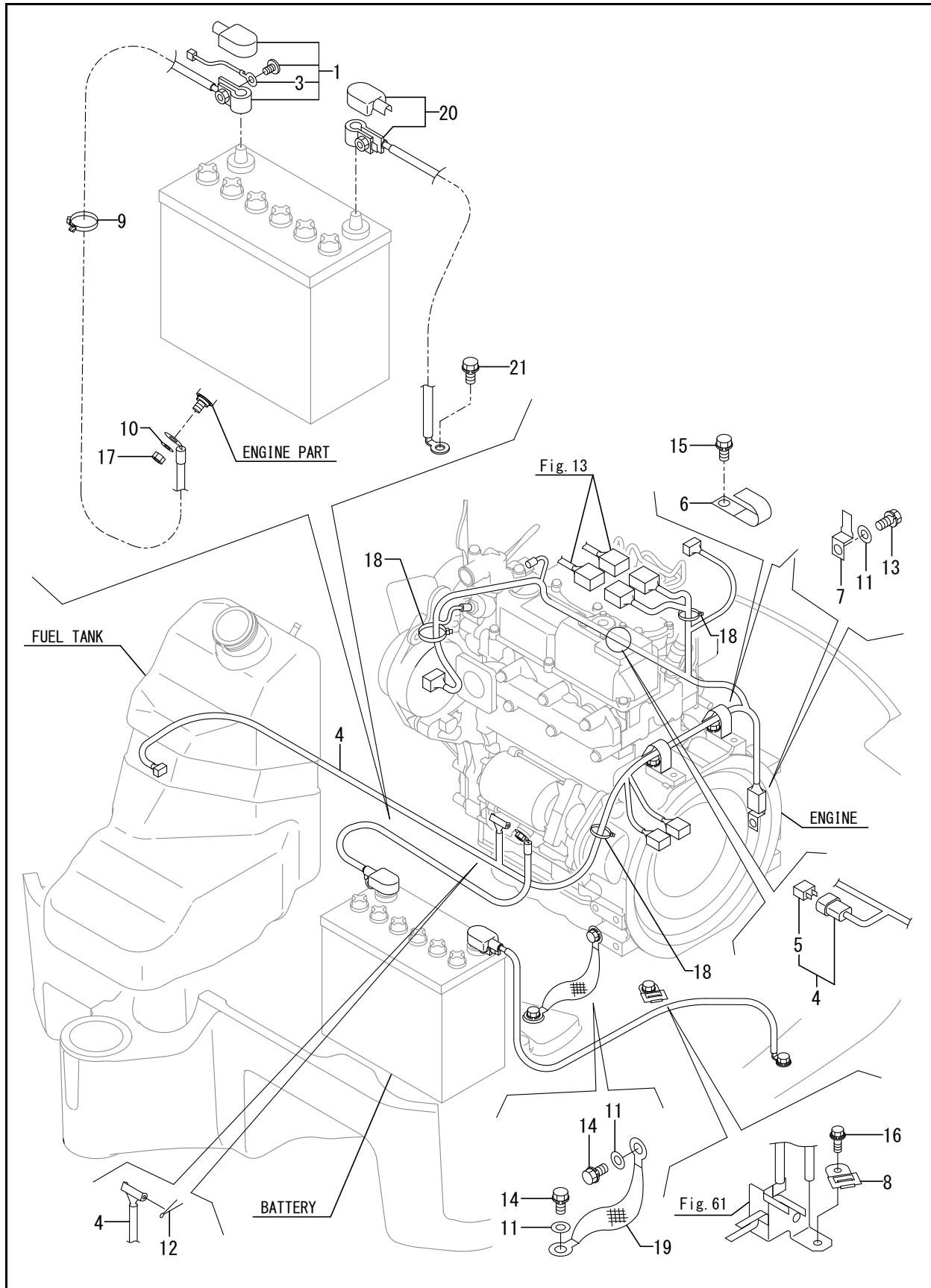


**Z17 - COMPACT EXCAVATOR**  
**FIG. 11 - FUEL FILTER & WATER SEPARATOR**

Ref.

No.	Part No.	Description	Qty.
1	203218	FILTER/FUEL ASSY	1
2	425-34921	SPRING	1
3	203219	LEVER	1
4	203220	CUP/STRAINER	1
5	425-35323	O-RING/BOWL	1
6	425-35324	RETAINER/BOWL	1
7	425-35325	SPRING/FUEL ELEMENT	1
8	203221	ELEMENT	1
9	425-34926	SCREW	1
10	425-34827	O-RING 1A P-10A	1
11	50286598	WATER SEPARATOR ASSY	1
12	425-34920	VALVE, TAPER	1
13	425-34921	SPRING	1
14	425-35321	HANDLE/FUEL SHUTOFF	1
15	203225	CUP	1
16	425-35323	O-RING/BOWL	1
17	425-35324	RETAINER/BOWL	1
18	203226	SPRING	1
19	203227	FLOAT	1
21	50285201	PLUG 6	2
22	425-34926	SCREW	1
23	185693	SCREEN/SEPARATOR	1
24	425-35328	GASKET 6	2
25	425-34827	O-RING 1A P-10A	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 12 - ELECTRIC PART (ENGINE)**



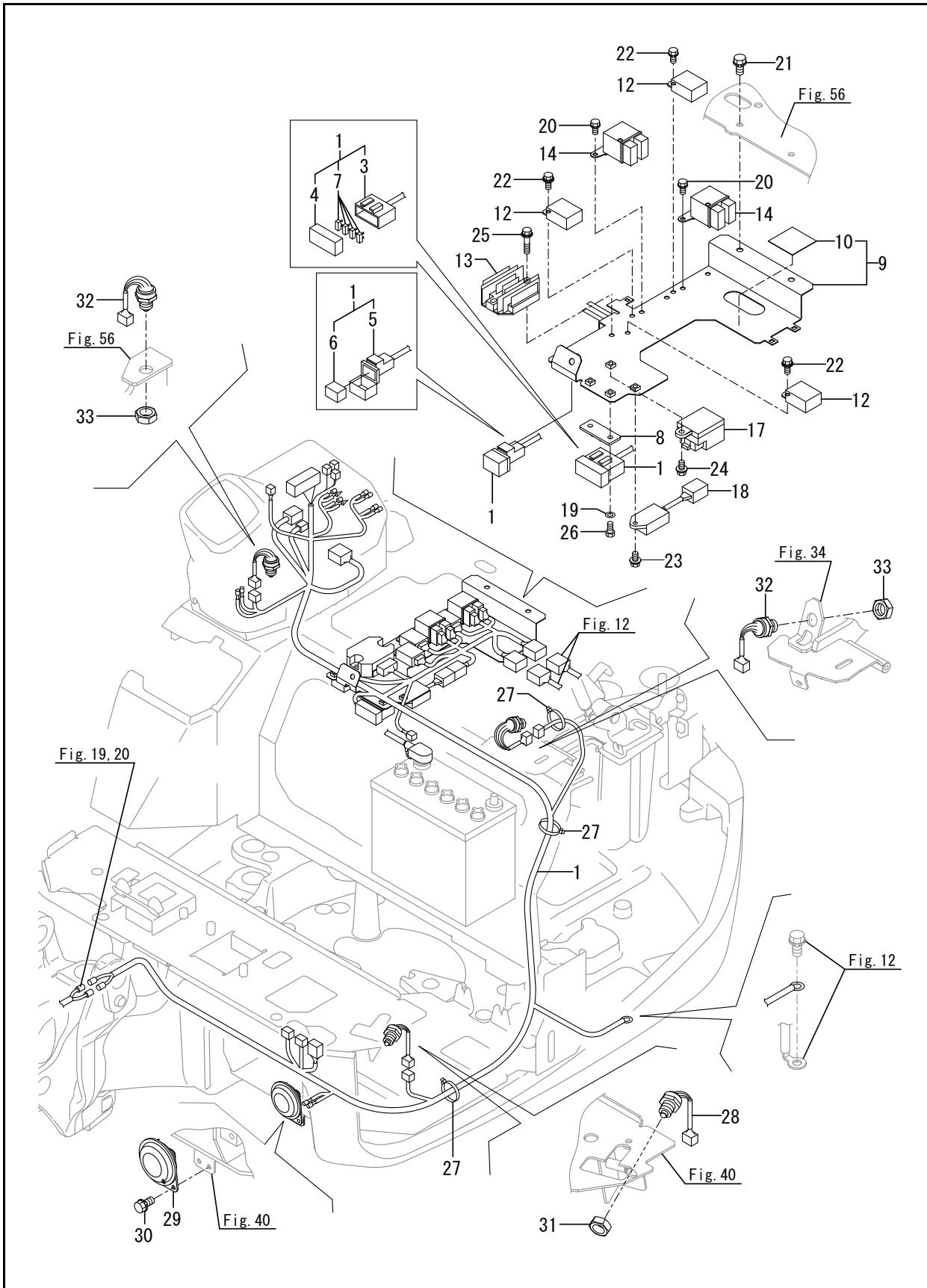
**Z17 - COMPACT EXCAVATOR**  
**FIG. 12 - ELECTRIC PART (ENGINE)**

Ref.

No.	Part No.	Description	Qty.
1	50285481	CORD ASSY,BATTERY	1
3	50285482	HARNESS, F	1
4	50285485	HARNESS ASSY, A	1
5	50284838	DIODE, 1.5A	1
6	50280774	CLAMP(B)	2
7	50281145	STAY A	1
8	50285872	METAL CLIP	2
9	50284003	BAND	1
10	50282380	WASHER 8, POLISHED	1
11	138111	WASHER/POLISHED	3
12	50285883	COTTER PIN 2.0X25	1
13	50282514	BOLT M10X 16	1
14	50282514	BOLT M10X 16	2
15	50282514	BOLT M10X 16	2
16	50282534	BOLT M 8X 20	1
17	50282596	NUT M 8	1
18	50284153	BAND 146	3
19	50284878	WIRE, EARTH	1
20	50285483	HARNESS, BAT. MINUS	1
21	50282515	BOLT W/WASHER M10X20	1

# Z17 - COMPACT EXCAVATOR

## FIG. 13 - ELECTRIC PART (SEAT MOUNT)



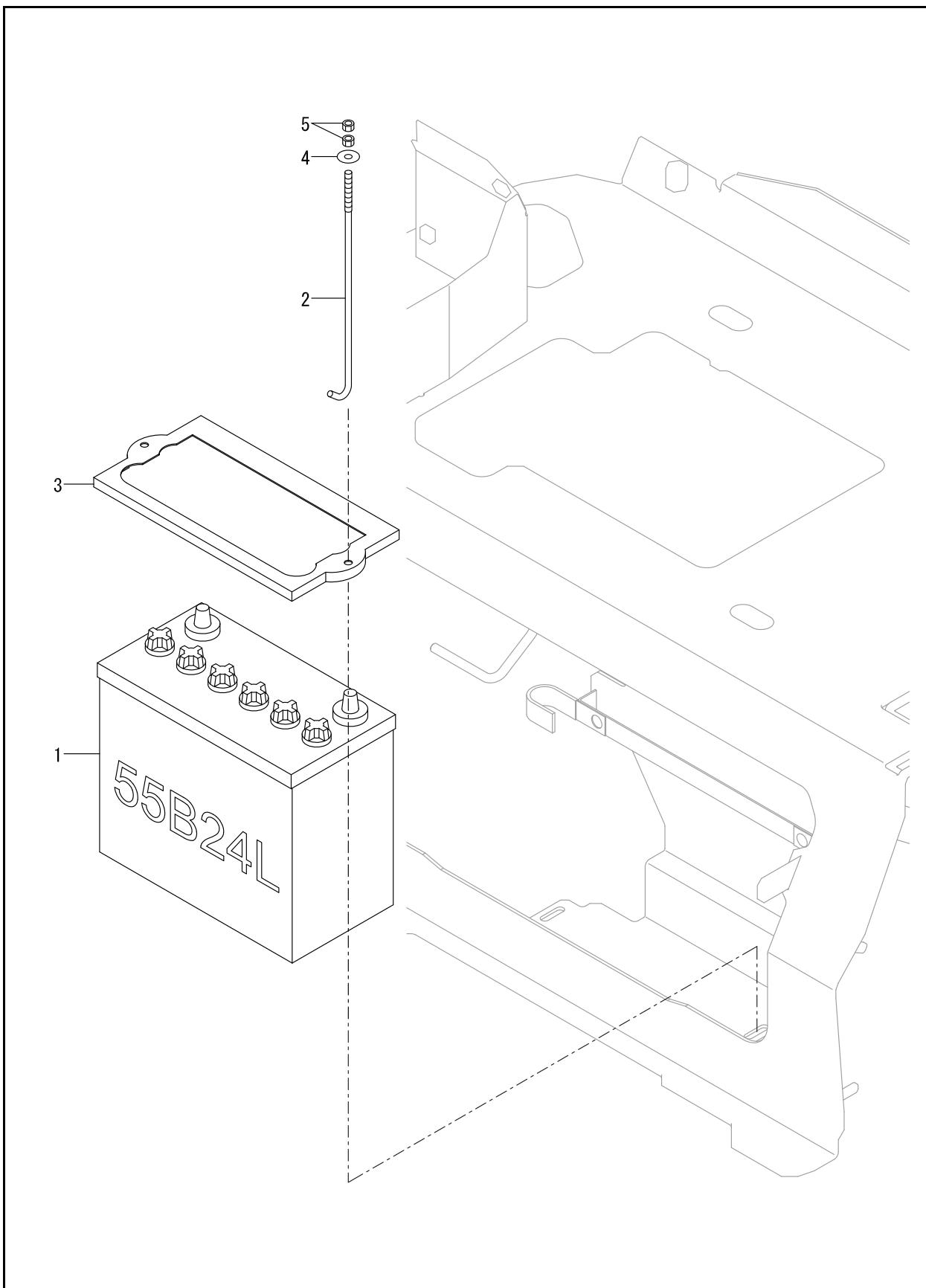
**Z17 - COMPACT EXCAVATOR**  
**FIG. 13 - ELECTRIC PART (SEAT MOUNT)**

Ref.

No.	Part No.	Description	Qty.
1	50285486	HARNESS ASSY,B EX	1
3	50285294	BODY,FUSER	1
4	50285295	COVER	1
5	50282907	HOUSING	1
6	50285322	FUSE 40A	1
7	50284141	FUSE, 15A	4
8	50285293	BRACKET,FUSE	1
9	50285490	BRACKET ASSY,ELC	1
10	50281056	RUBBER PLATE	1
12	50282675	RELAY	3
13	50285204	CURRENT LIMITER	1
14	50282677	RELAY ASSY, GLOW	2
17	50280735	TIMER	1
18	138089	TIMER	1
19	50282379	WASHER 6, POLISHED	2
20	50282501	BOLT M 6X 12	4
21	50282506	BOLT W/WASHER M8X16	3
22	50282530	BOLT M 6X 12	3
23	50282531	BOLT M 6X 16	1
24	425-35319	BOLT WITH WASHER 6 X 20	1
25	425-35450	BOLT M6 X 25	2
26	425-34848	BOLT M6 X 16 PLATED	2
27	50284153	BAND 146	3
28	50282353	SWITCH, SAFETY START	1
29	50282351	HORN	1
30	50282531	BOLT M 6X 16	2
31	186626	NUT M18 LOCK	1
32	50282353	SWITCH, SAFETY START	2
33	186626	NUT M18 LOCK	2

# Z17 - COMPACT EXCAVATOR

## FIG. 14 - BATTERY



**Z17 - COMPACT EXCAVATOR**  
**FIG. 14 - BATTERY**

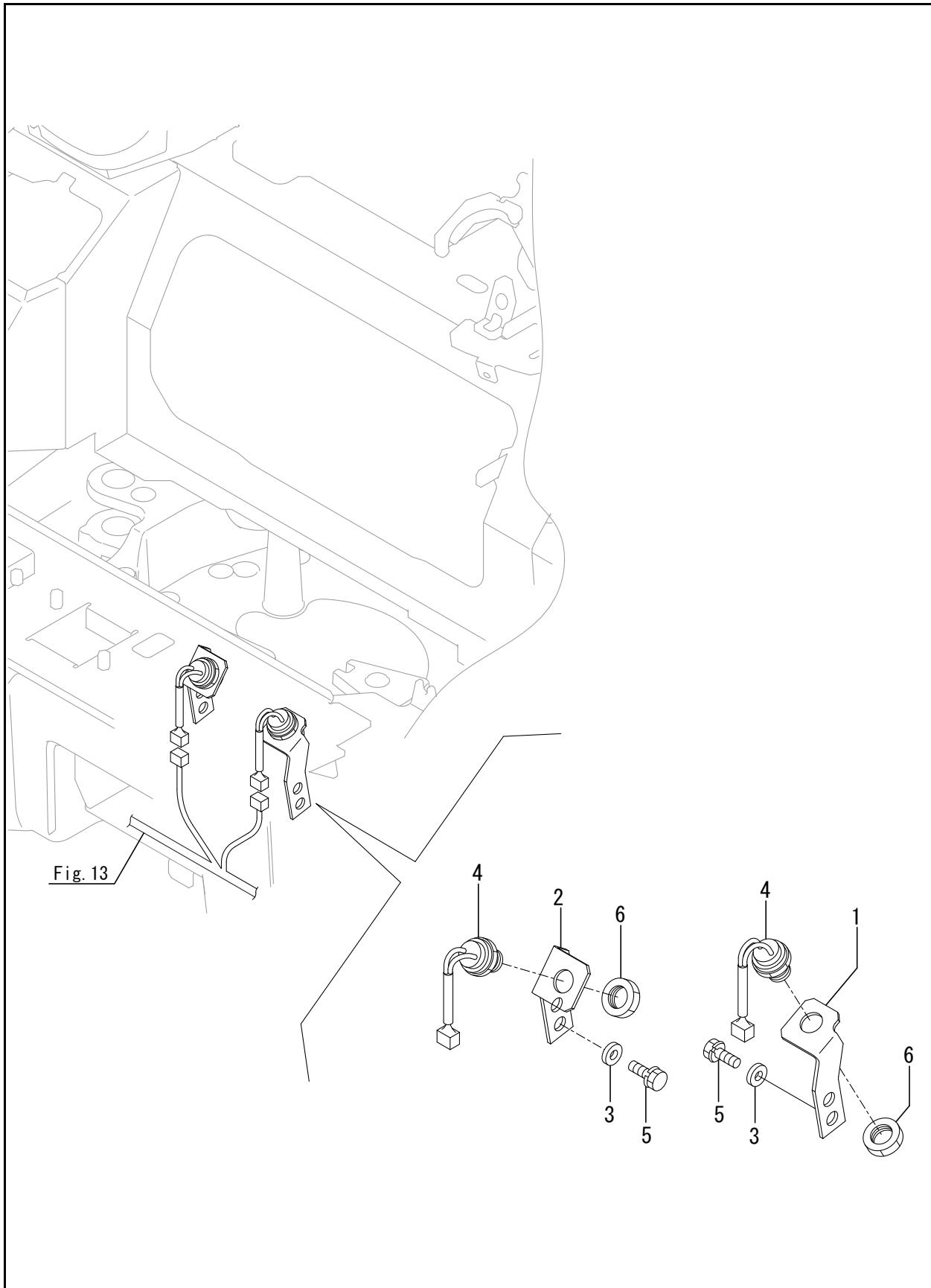
Ref.

No.	Part No.	Description	Qty.
1	N/A	BATTERY *	1
2	50285415	ROD, CLAMP	2
3	50285869	CLAMP,BATTERY	1
4	50282385	WASHER 6	2
5	138143	NUT	4

NOTE:

\* Purchase locally; Group size 51 (alt. 22NF); 360 CCA

**Z17 - COMPACT EXCAVATOR**  
**FIG. 15 - TRAVEL ALARM (SWITCH)**



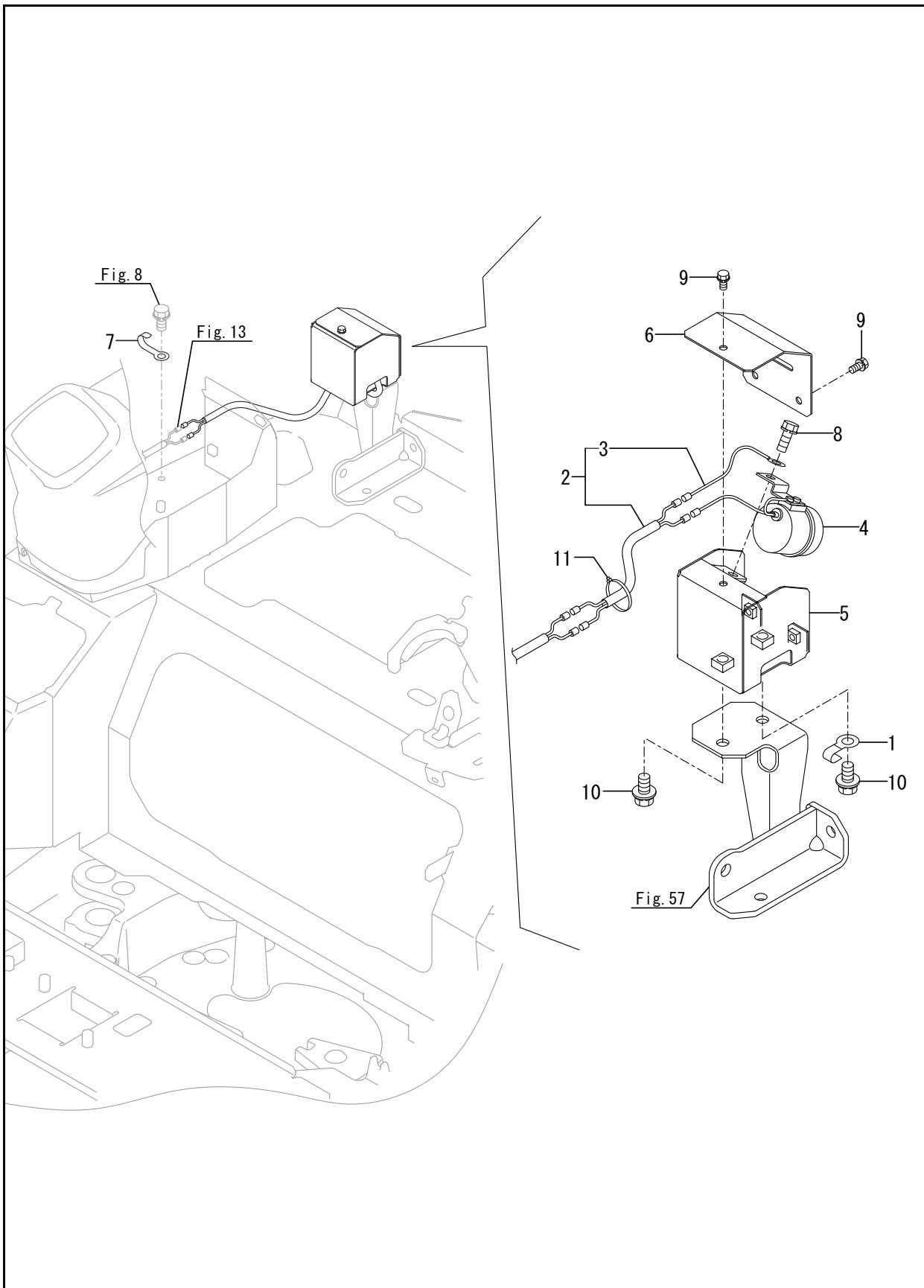
**Z17 - COMPACT EXCAVATOR**  
**FIG. 15 - TRAVEL ALARM (SWITCH)**

Ref.

No.	Part No.	Description	Qty.
1	50285514	STA L,SSW	1
2	50285515	STA R,SSW	1
3	50285271	WASHER 8X18X4	4
4	50282353	SWITCH, SAFETY START	2
5	50282507	BOLT W/WASHER M8X20	4
6	186626	NUT M18 LOCK	2

# Z17 - COMPACT EXCAVATOR

## FIG. 16 - TRAVEL ALARM



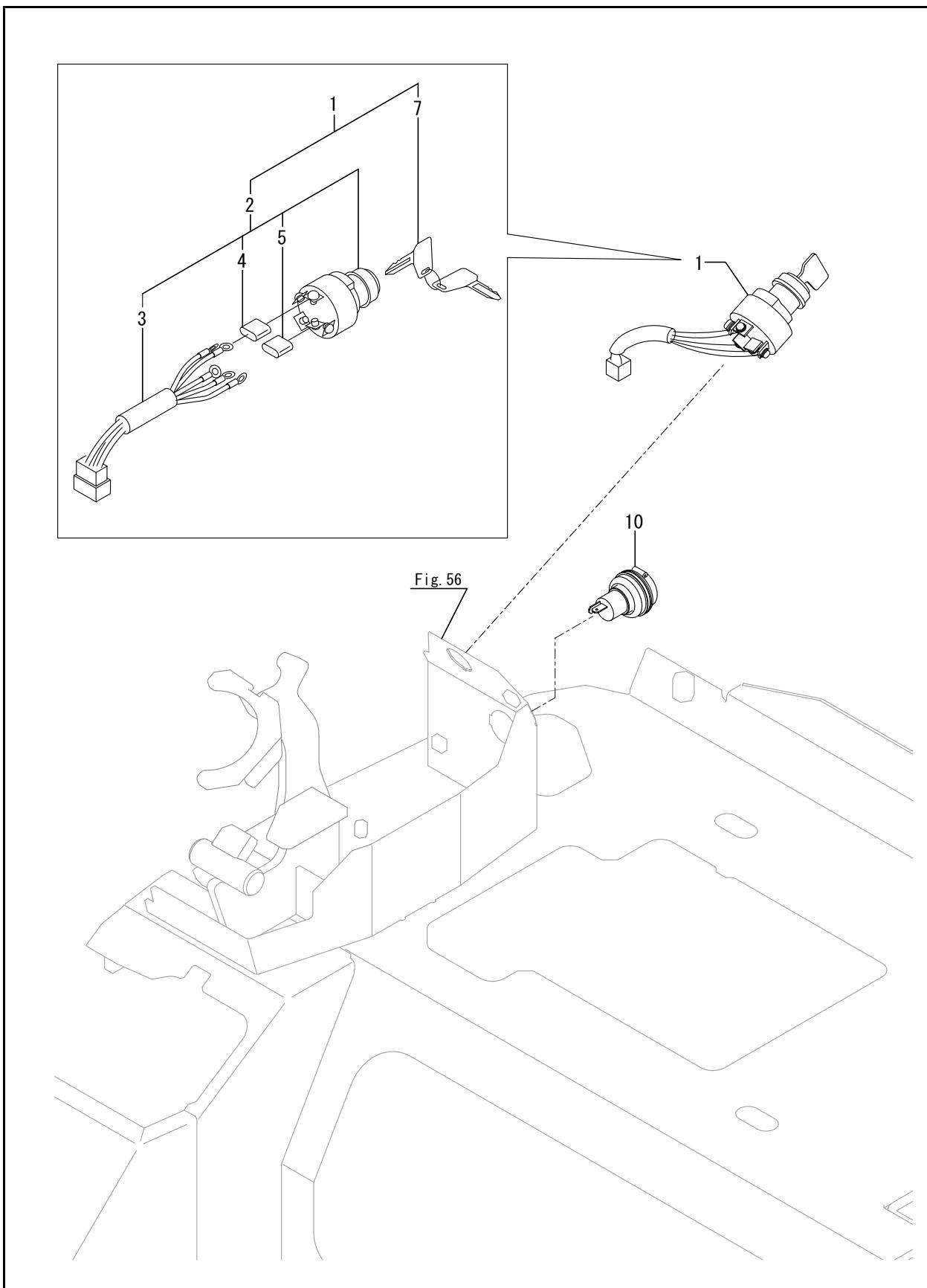
**Z17 - COMPACT EXCAVATOR**  
**FIG. 16 - TRAVEL ALARM**

Ref.

No.	Part No.	Description	Qty.
1	50280799	CLAMP 10X70	1
2	50285332	HARNESS D CMP	1
3	50285399	HARNESS,ALARM	1
4	50281317	BUZZER, BACK	1
5	50286213	ALARM CASE	1
6	50286215	ALARM CASE COVER	1
7	50284002	CLAMP, WIRE HARNESS	1
8	50282505	BOLT M 8X 12	1
9	50282530	BOLT M 6X 12	3
10	50282538	BOLT M10X 20	2
11	50284153	BAND 146	1

# Z17 - COMPACT EXCAVATOR

## FIG. 18 - START SWITCH



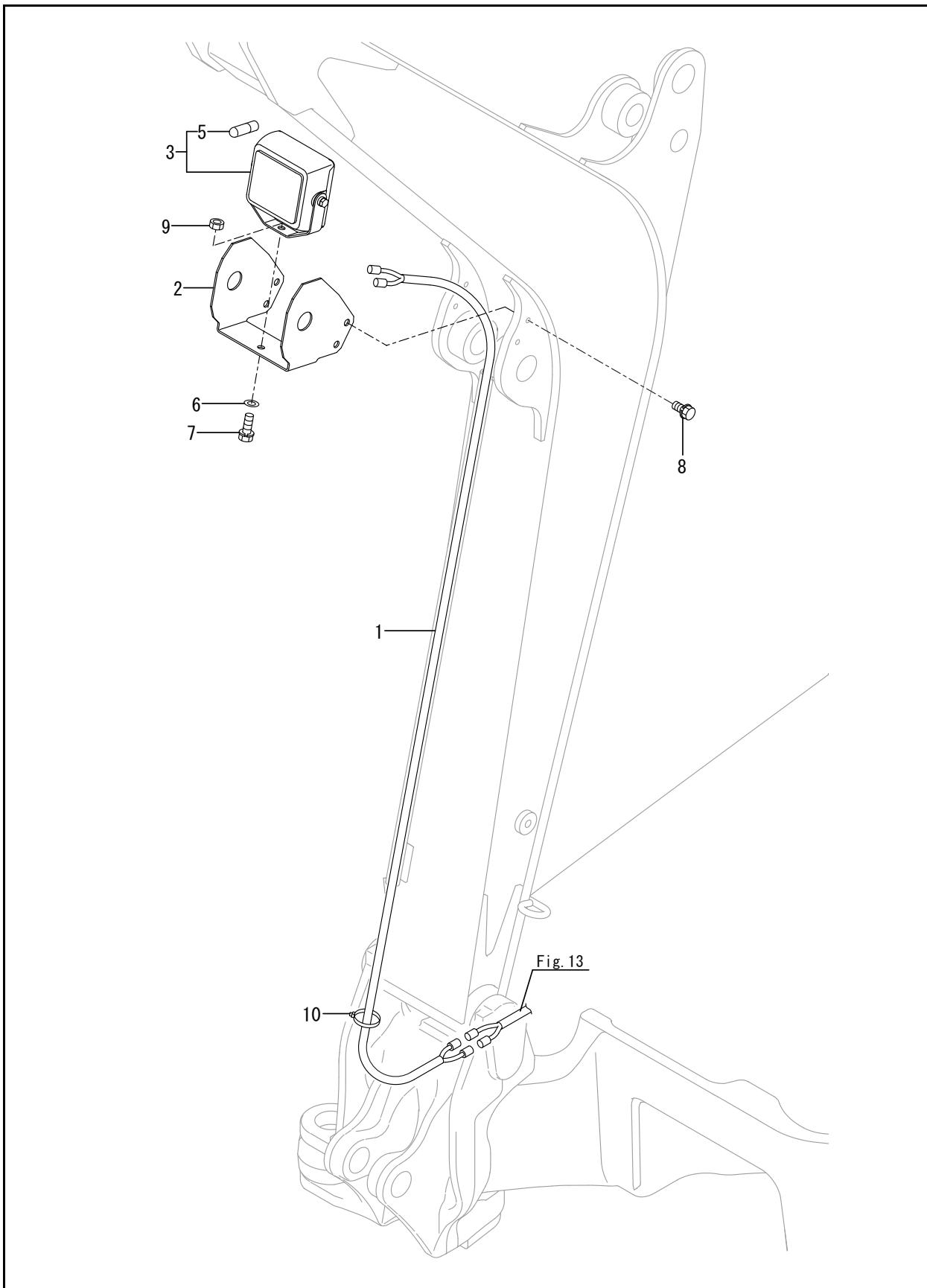
**Z17 - COMPACT EXCAVATOR**  
**FIG. 18 - START SWITCH**

Ref.

No.	Part No.	Description	Qty.
1	50280932	SWITCH, START	1
2	50283430	CYLINDER ASSY,KEY	1
3	50280929	CODE	1
4	50280930	COVER M5	3
5	50280931	COVER M4	2
7	50282616	KEY ASSY	1
10	50281499	SOCKET ASSY	1

# Z17 - COMPACT EXCAVATOR

## FIG. 19 - WORK LAMP



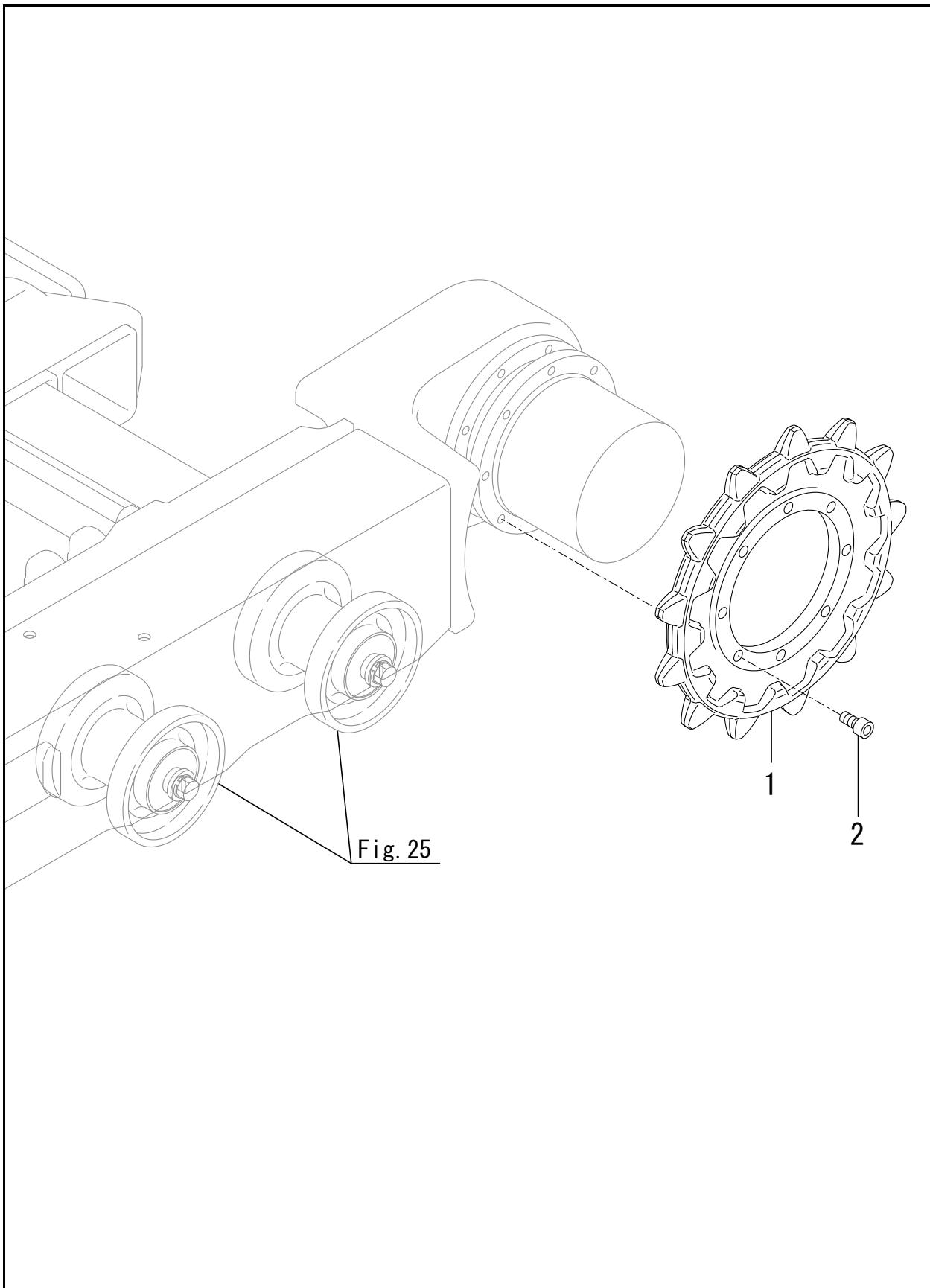
**Z17 - COMPACT EXCAVATOR****FIG. 19 - WORK LAMP**

Ref.

No.	Part No.	Description	Qty.
1	50285331	HARNESS,BOOM LAMP	1
2	50286301	WORK LAMP BRACKET	1
3	50285266	LAMP, WORK	1
5	50285267	BULB 12V-27W	1
6	138515	WASHER 8	1
7	50282506	BOLT W/WASHER M8X16	1
8	50282533	BOLT M 8X 16	4
9	50282596	NUT M 8	1
10	50284153	BAND 146	1

**Z17 - COMPACT EXCAVATOR**

**FIG. 21 - SPROCKET (RUBBER CRAWLER)**

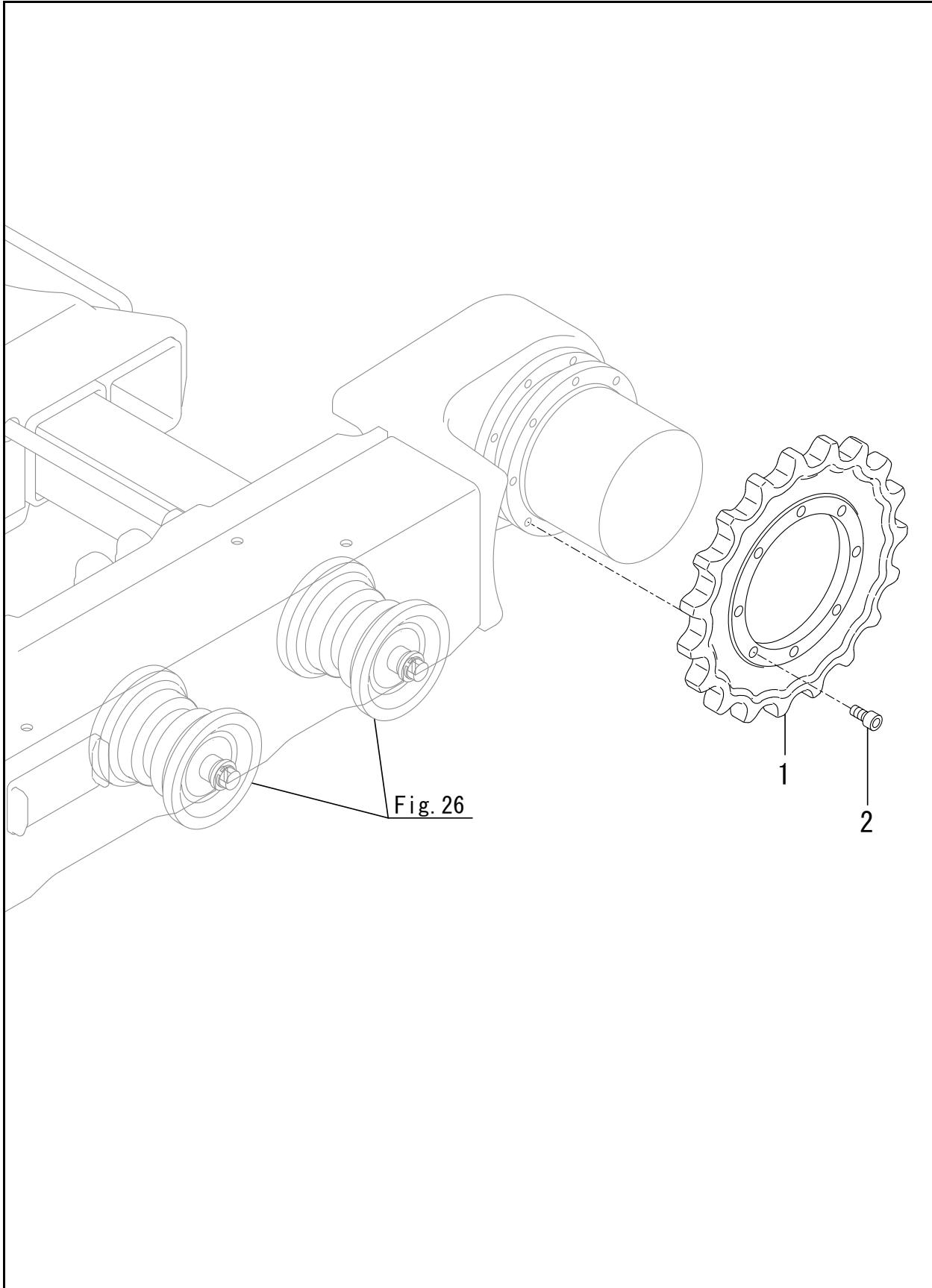


**Z17 - COMPACT EXCAVATOR**  
**FIG. 21 - SPROCKET (RUBBER CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285492	SPROCKET T13	2
2	50285919	BOLT M10 X 25	16

**Z17 - COMPACT EXCAVATOR**  
**FIG. 22 - SPROCKET (IRON CRAWLER)**



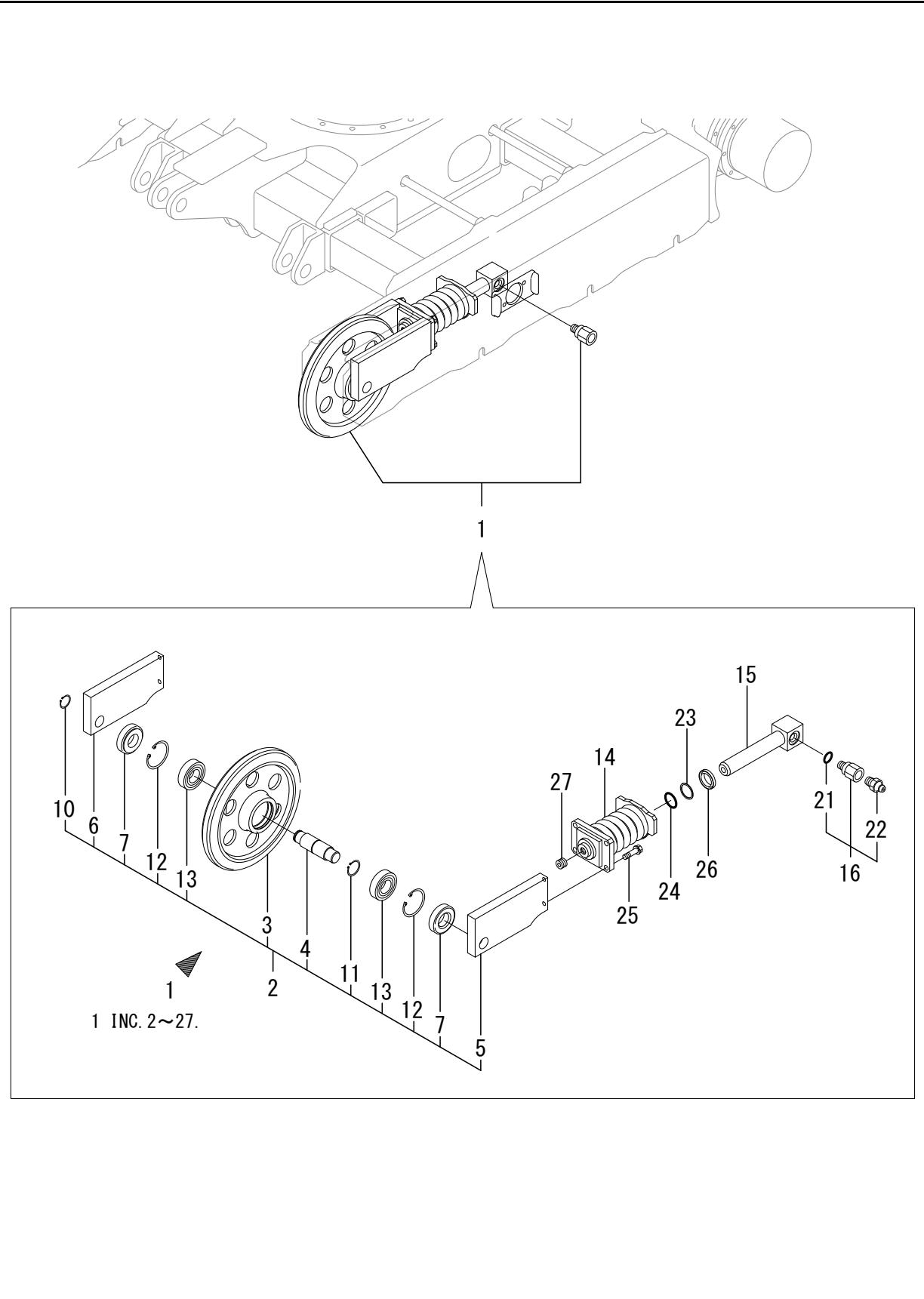
**Z17 - COMPACT EXCAVATOR**  
**FIG. 22 - SPROCKET (IRON CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285493	SPROCKET, T19	2
2	50285919	BOLT M10 X 25	16

# Z17 - COMPACT EXCAVATOR

## FIG. 23 - IDLER & ADJUST (RUBBER CRAWLER)



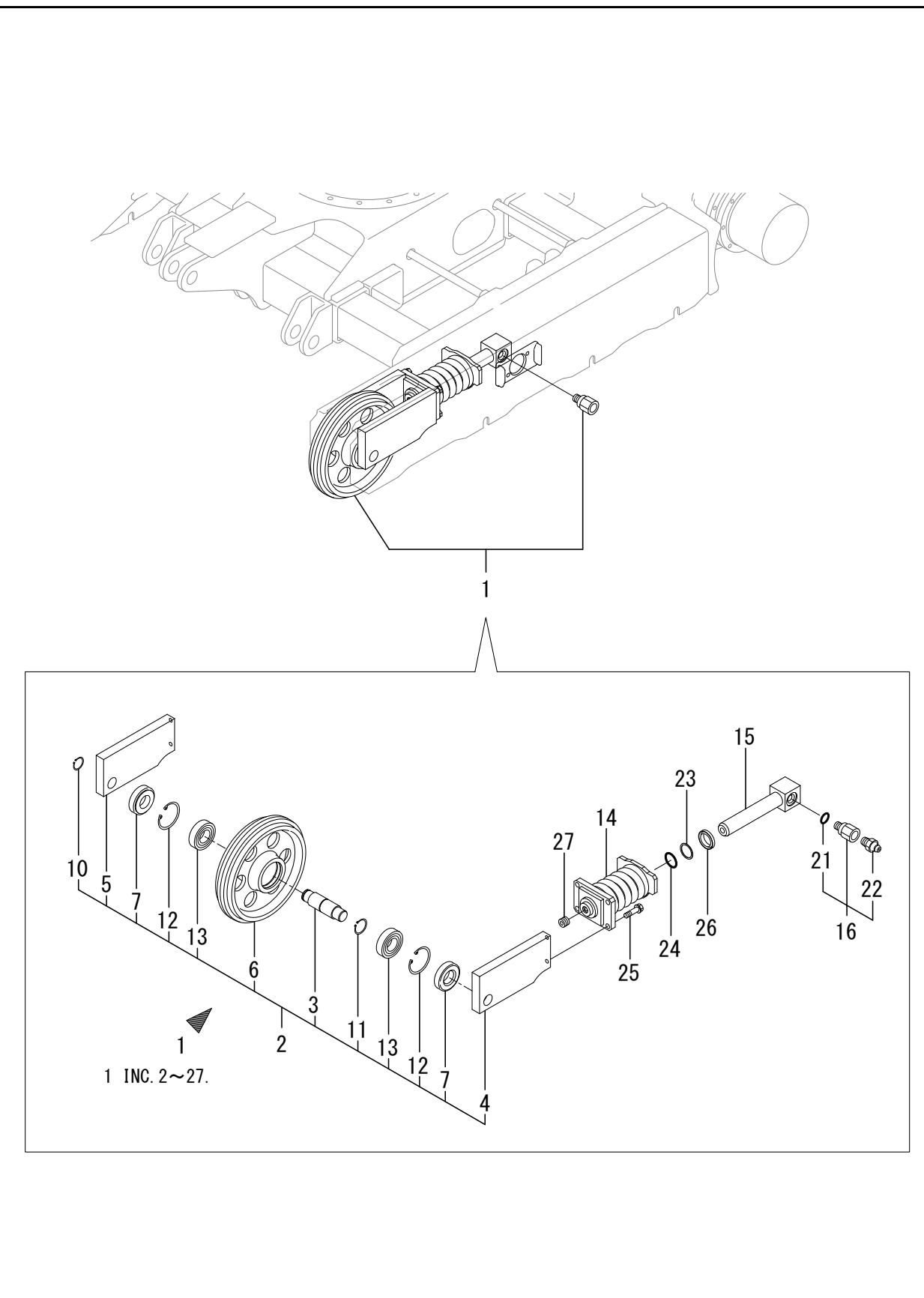
**Z17 - COMPACT EXCAVATOR**  
**FIG. 23 - IDLER & ADJUST (RUBBER CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285498	IDLER FORK ASSY	2
2	50285499	IDLER ASSY	2
3	50285494	IDLER 270	2
4	50285495	SHAFT, IDLER	2
5	50285496	FORK L, IDLER	2
6	50285497	FORK R, IDLER	2
7	50285870	SEAL QLN306213.2,OIL	4
10	50282399	CIRCLIP 25S	2
11	50284045	CIRCLIP 30	2
12	50284842	CIRCLIP 62(H)	4
13	50282452	BALL BEARING	4
14	50285335	SPRING,CRAWLER	2
15	50285336	TUBE ASSY, ADJUSTING	2
16	50280783	VALVE ASSY, NIPPLE	2
21	50282471	O-RING 1B P-14.0	2
22	50282497	NIPPLE PT1/8,GREASE	2
23	50285239	RING, BACK UP	2
24	50285893	PACKING, P 30.0	2
25	50282518	BOLT M10X 35	8
26	50285931	SEAL, DUST	2
27	50282621	PLUG PT1/8	2

# Z17 - COMPACT EXCAVATOR

## FIG. 24 - IDLER & ADJUST (IRON CRAWLER)



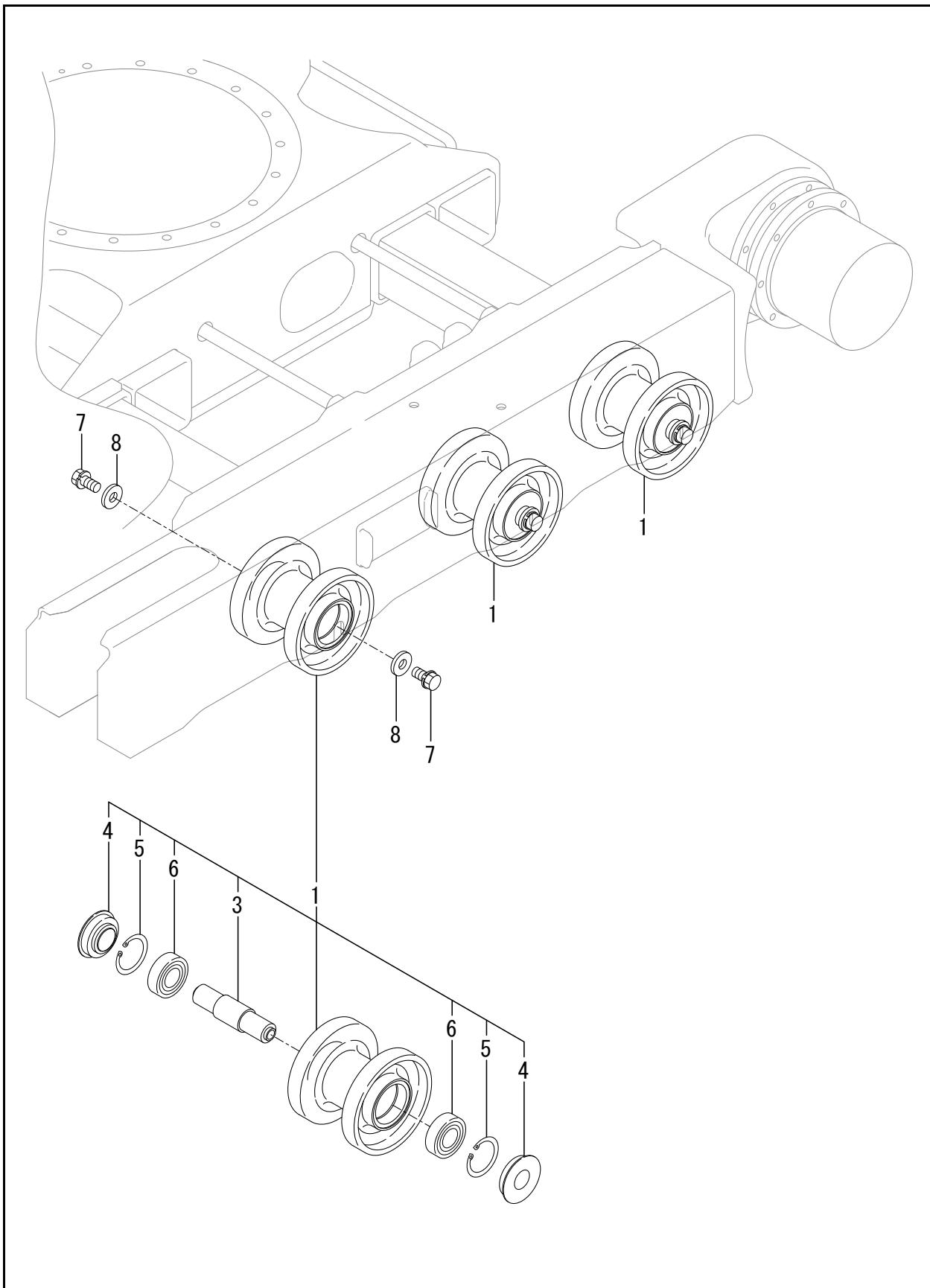
**Z17 - COMPACT EXCAVATOR**  
**FIG. 24 - IDLER & ADJUST (IRON CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285500	IDLER FORK ASSY	2
2	50285501	IDLER ASSY	2
3	50285495	SHAFT, IDLER	2
4	50285496	FORK L, IDLER	2
5	50285497	FORK R, IDLER	2
6	50285359	IDLER	2
7	50285870	SEAL QLN306213.2,OIL	4
10	50282399	CIRCLIP 25S	2
11	50284045	CIRCLIP 30	2
12	50284842	CIRCLIP 62(H)	4
13	50282452	BALL BEARING	4
14	50285335	SPRING,CRAWLER	2
15	50285336	TUBE ASSY, ADJUSTING	2
16	50280783	VALVE ASSY, NIPPLE	2
21	50282471	O-RING 1B P-14.0	2
22	50282497	NIPPLE PT1/8,GREASE	2
23	50285239	RING, BACK UP	2
24	50285893	PACKING, P 30.0	2
25	50282518	BOLT M10X 35	8
26	50285931	SEAL, DUST	2
27	50282621	PLUG PT1/8	2

# Z17 - COMPACT EXCAVATOR

## FIG. 25 - TRACK ROLLER (RUBBER CRAWLER)

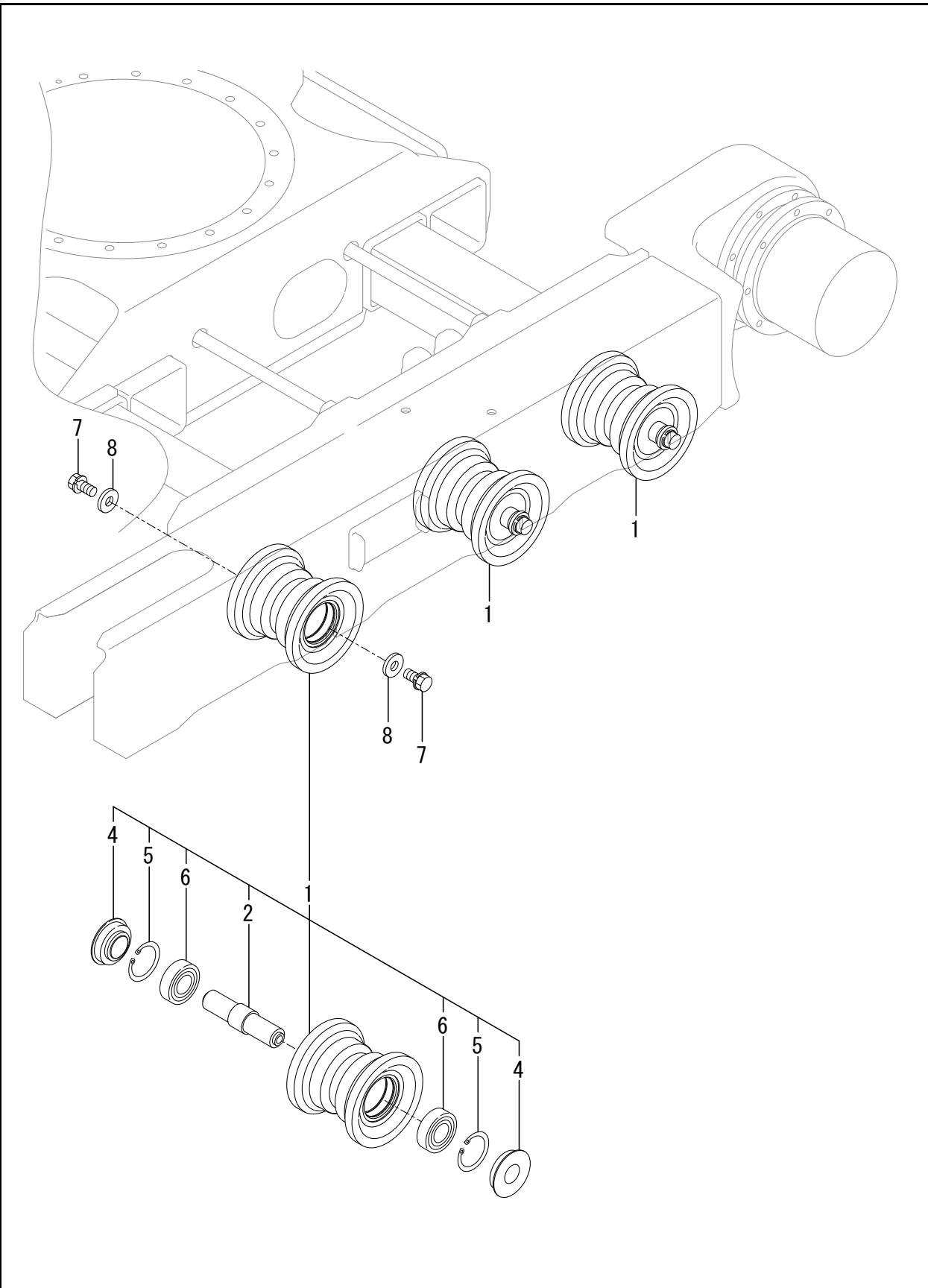


**Z17 - COMPACT EXCAVATOR**  
**FIG. 25 - TRACK ROLLER (RUBBER CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285928	TRACK ROLLER,RUBBER	6
3	50285333	SHAFT,ROLLER RUBBER	6
4	50285874	SEAL, 25X52X18	12
5	50285158	RING	12
6	186604	BEARING #6205	12
7	50284101	BOLT M12 X 25	12
8	50285932	WASHER, SIDE CLUTCH	12

**Z17 - COMPACT EXCAVATOR**  
**FIG. 26 - TRACK ROLLER (IRON CRAWLER)**



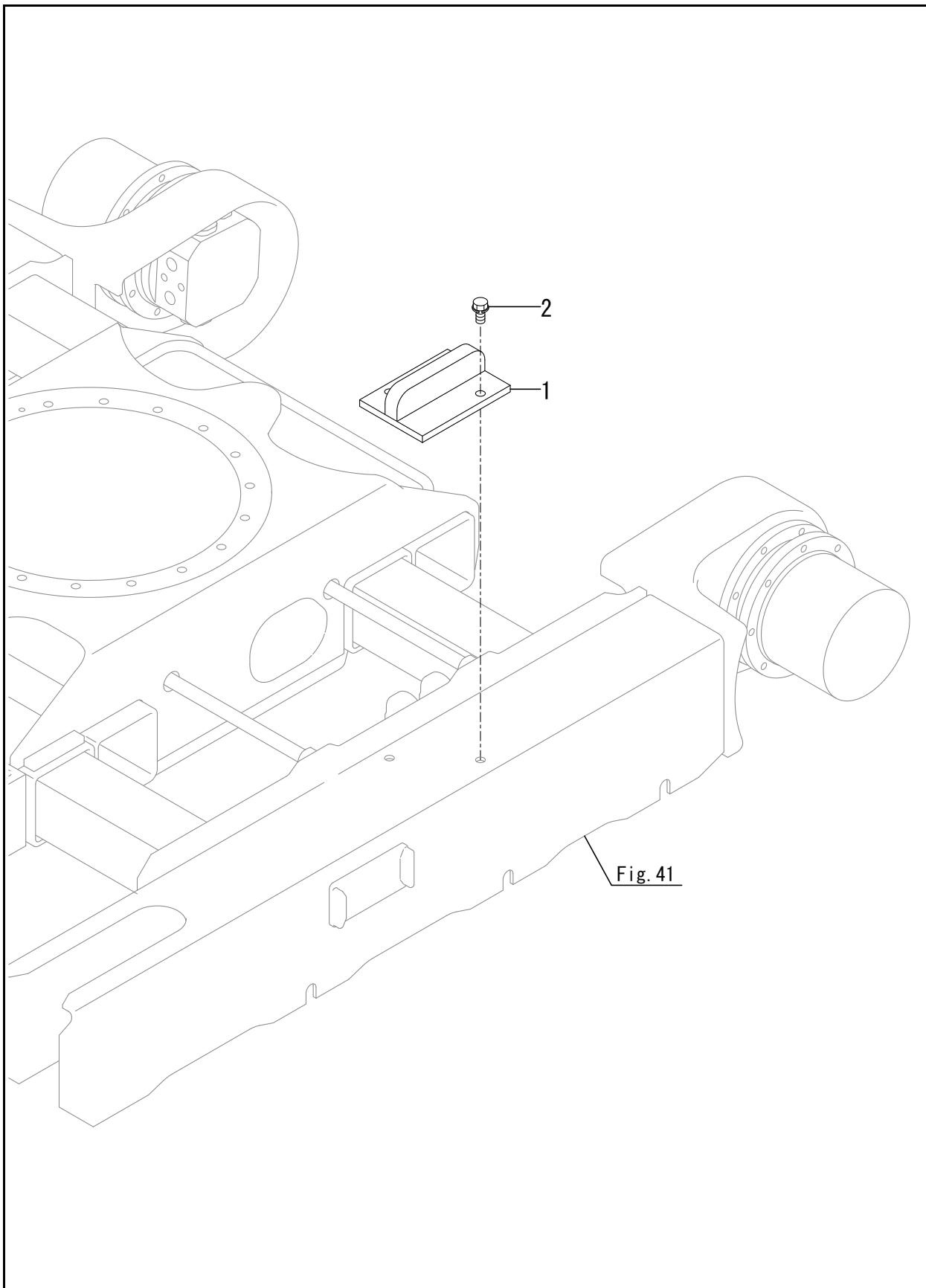
**Z17 - COMPACT EXCAVATOR**  
**FIG. 26 - TRACK ROLLER (IRON CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285502	TRUCK ROLLER ASSY	6
2	50285334	SHAFT,ROLLER IRON	6
4	50285874	SEAL, 25X52X18	12
5	50285158	RING	12
6	186604	BEARING #6205	12
7	50284101	BOLT M12 X 25	12
8	50285932	WASHER, SIDE CLUTCH	12

# Z17 - COMPACT EXCAVATOR

## FIG. 27 - SHOE SIDE PLATE (RUBBER CRAWLER)



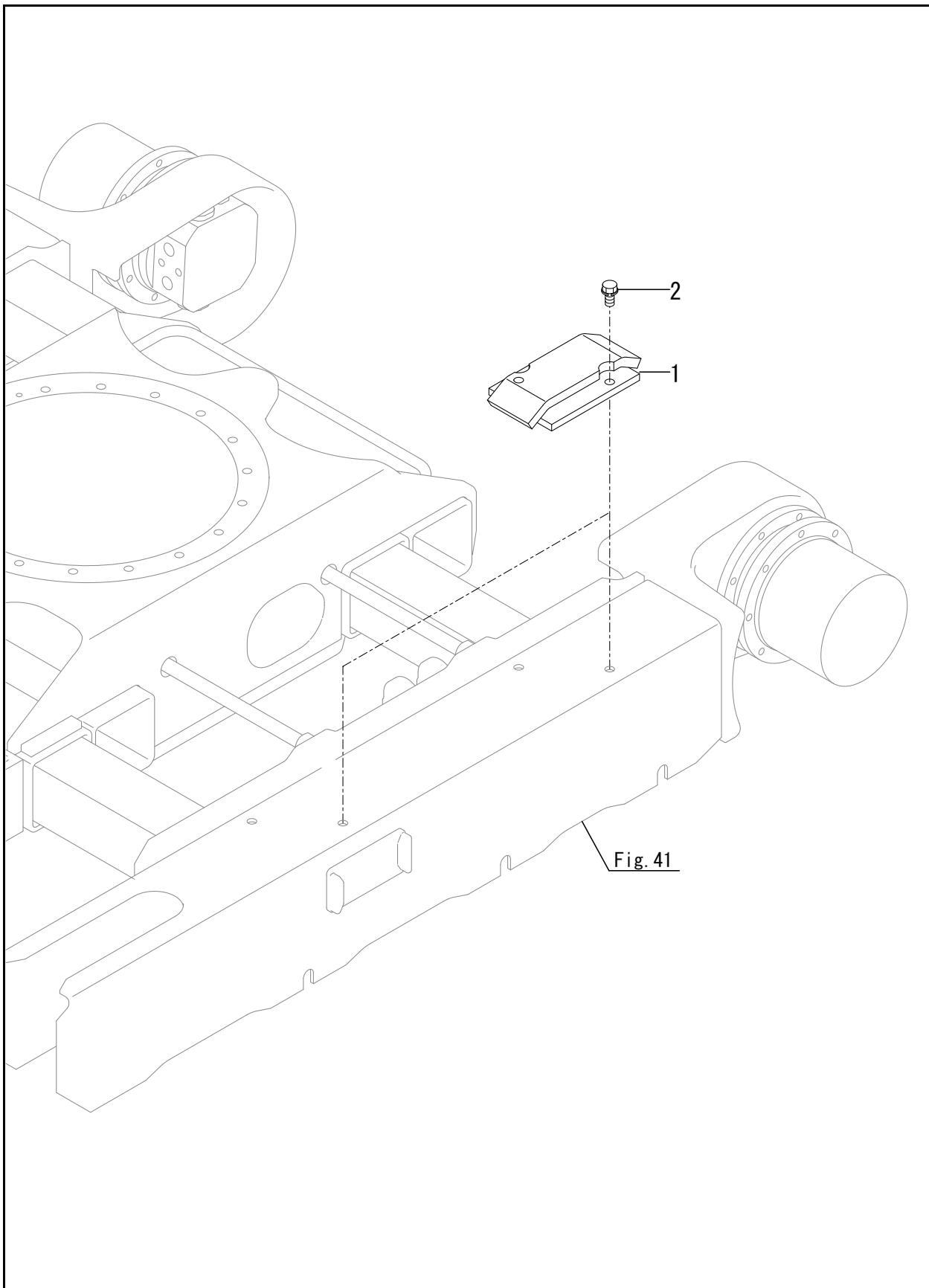
**Z17 - COMPACT EXCAVATOR**  
**FIG. 27 - SHOE SIDE PLATE (RUBBER CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285503	SLIDE PLATE ASSY	2
2	50282516	BOLT W/WASHER M10X25	4

# Z17 - COMPACT EXCAVATOR

## FIG. 28 - SHOE SIDE PLATE (IRON CRAWLER)



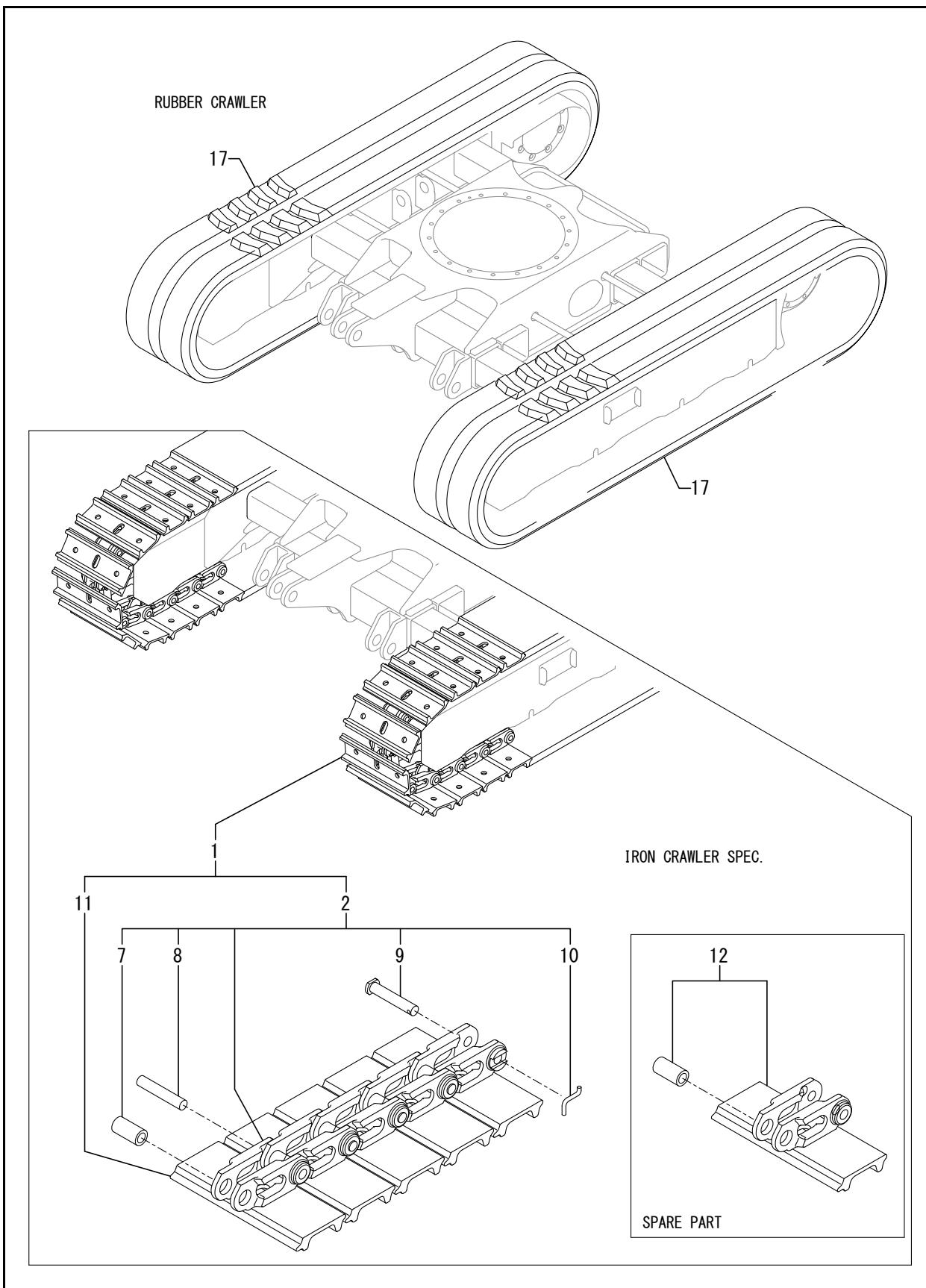
**Z17 - COMPACT EXCAVATOR**  
**FIG. 28 - SHOE SIDE PLATE (IRON CRAWLER)**

Ref.

No.	Part No.	Description	Qty.
1	50285504	SLIDE PLATE ASSY	4
2	50282516	BOLT W/WASHER M10X25	8

# Z17 - COMPACT EXCAVATOR

## FIG. 29 - CRAWLER



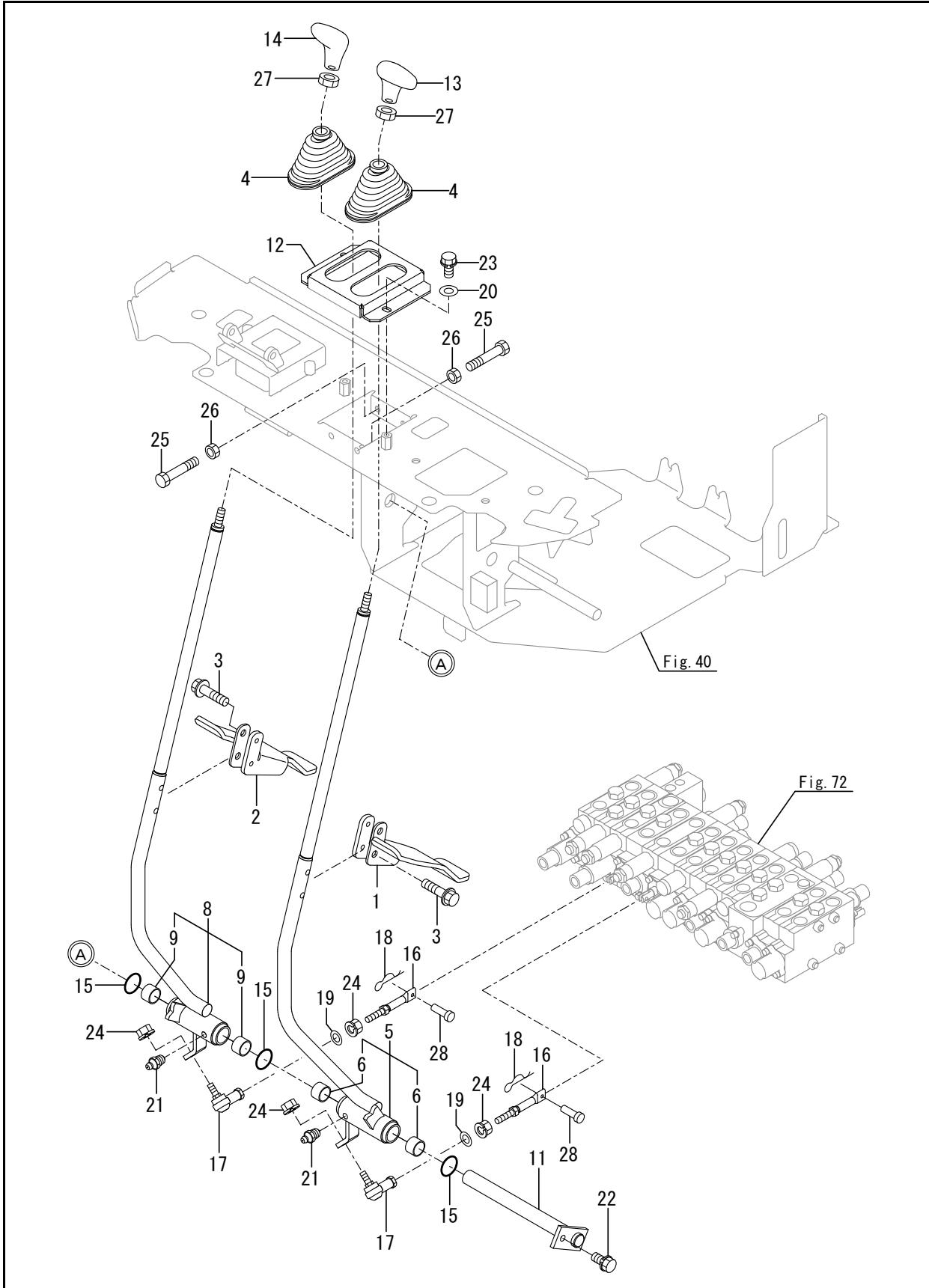
**Z17 - COMPACT EXCAVATOR**  
**FIG. 29 - CRAWLER**

Ref.

No.	Part No.	Description	Qty.
1	50285337	CRAWLER	2
2	50285338	TRACK LINK	2
7	50285281	BUSH, 22.15X43	72
8	50285282	PIN, CRAWLER	70
9	50285283	PIN,MASTER	2
10	50285284	PIN 4X22,LOCK	2
11	50285339	PLATE,SHOE 230	72
12	50285340	MASTER TRACK	1
17	50285505	RUBBER CRAWLER	2

# Z17 - COMPACT EXCAVATOR

## FIG. 30 - CONTROL EQUIPMENT (TRAVEL LEVER)



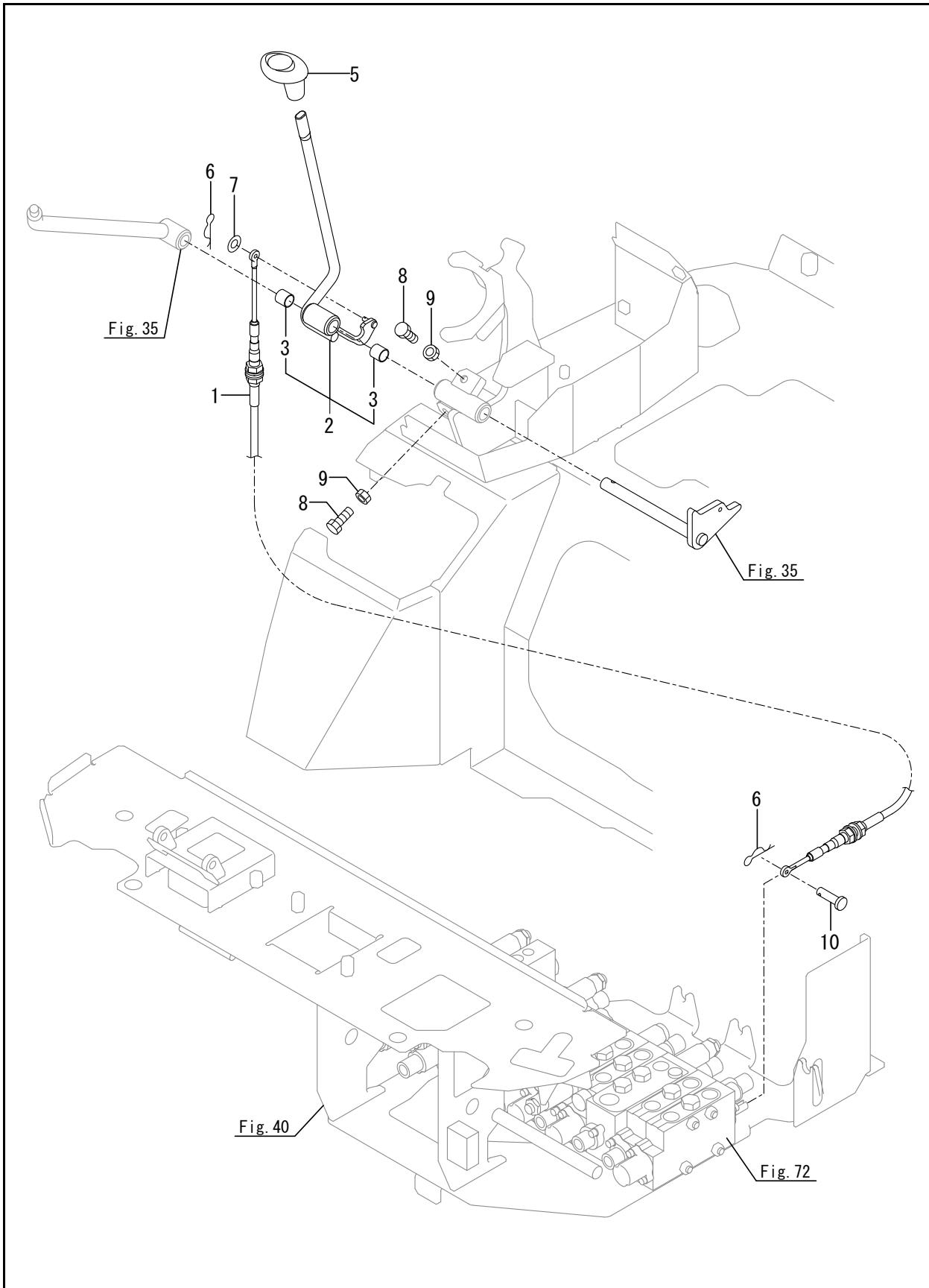
**Z17 - COMPACT EXCAVATOR**  
**FIG. 30 - CONTROL EQUIPMENT (TRAVEL LEVER)**

Ref.

No.	Part No.	Description	Qty.
1	50283497	PEDAL, TRACK	1
2	50283498	PEDAL, TRACK	1
3	425-34760	BOLT M8 X 30 PLATED	4
4	50282725	BOOTS	2
5	50285507	LEVER L, TRACK (49)	1
6	50280810	BUSHING 2015	2
8	50285509	LEVER R, TRACK (49)	1
9	50280810	BUSHING 2015	2
11	50285510	SHAFT ASSY	1
12	50285387	BRACKET,BOOT(GRAY:49)	1
13	50285274	GRIP L, DRIV.	1
14	50285275	GRIP R, DRIV.	1
15	50280793	O-RING 27X5.7	3
16	50285236	ROD ASSY, SPOOL A	2
17	50282702	ELBOW	2
18	50284017	PIN 6,COME-OFF SNAP	2
19	138515	WASHER 8	2
20	50282380	WASHER 8, POLISHED	2
21	50282497	NIPPLE PT1/8,GREASE	2
22	50282506	BOLT W/WASHER M8X16	1
23	50282506	BOLT W/WASHER M8X16	2
24	50282548	NUT M 8	4
25	50285912	BOLT M8 X 40 PLATED	4
26	425-34794	NUT, LOCK M8 PLATED	4
27	50282602	LOCK NUT M10 PLATED	2
28	50284148	PIN 4.75X14	2

# Z17 - COMPACT EXCAVATOR

## FIG. 31 - CONTROL EQUIPMENT (BLADE LEVER)



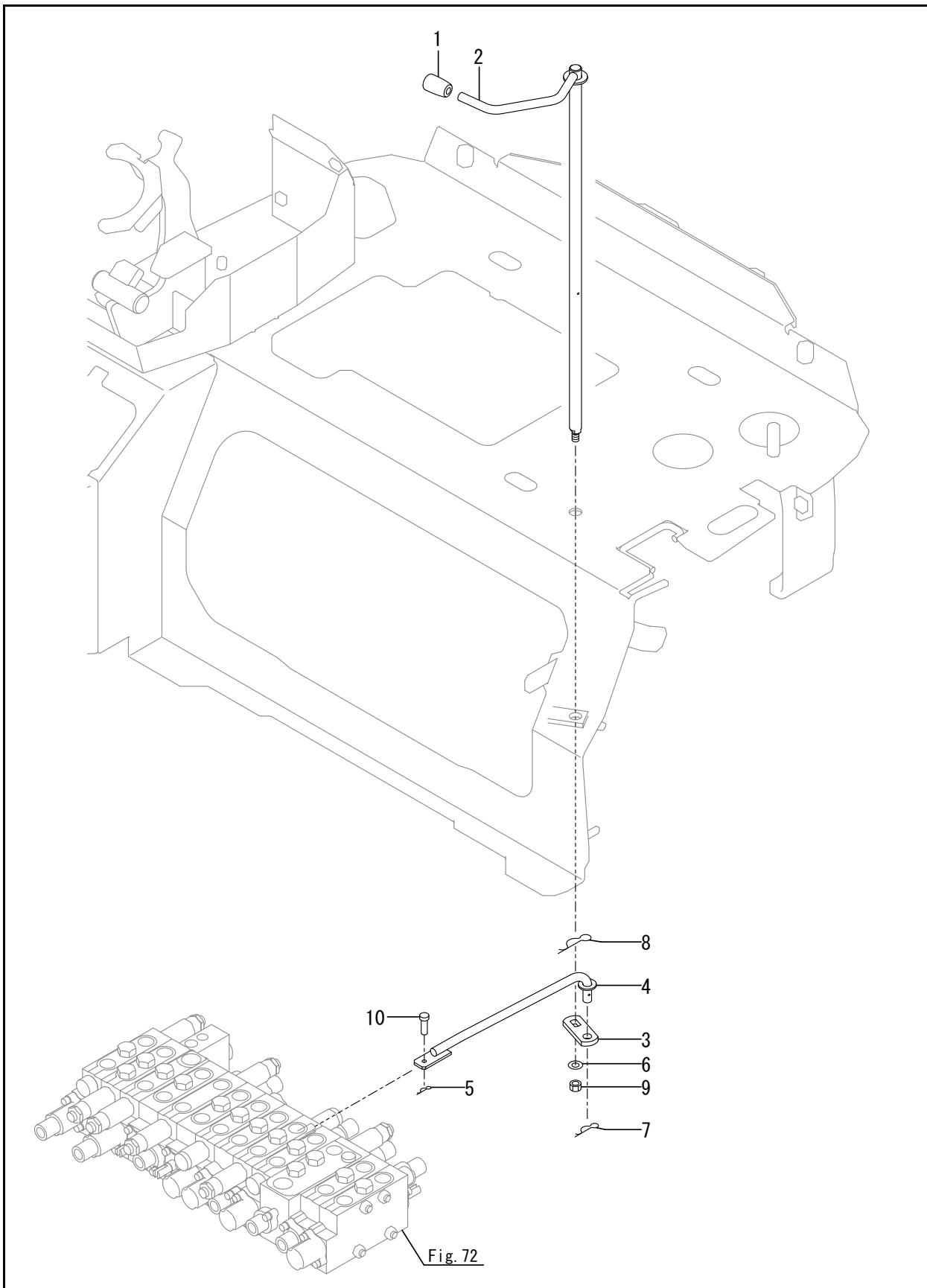
**Z17 - COMPACT EXCAVATOR**  
**FIG. 31 - CONTROL EQUIPMENT (BLADE LEVER)**

Ref.

No.	Part No.	Description	Qty.
1	50285521	CABLE, BLADE	1
2	50285522	BLADE LEVER ASSY(49)	1
3	50282726	BUSHING 1415	2
5	50282786	GRIP, BLADE	1
6	50284017	PIN 6, COME-OFF SNAP	2
7	50284040	WASHER 5, POLISHED	1
8	50285910	BOLT M8 X 25 PLATED	2
9	425-34794	NUT, LOCK M8 PLATED	2
10	50284148	PIN 4.75X14	1

# Z17 - COMPACT EXCAVATOR

## FIG. 32 - CONTROL EQUIPMENT (VARIABLE LEG LEVER)



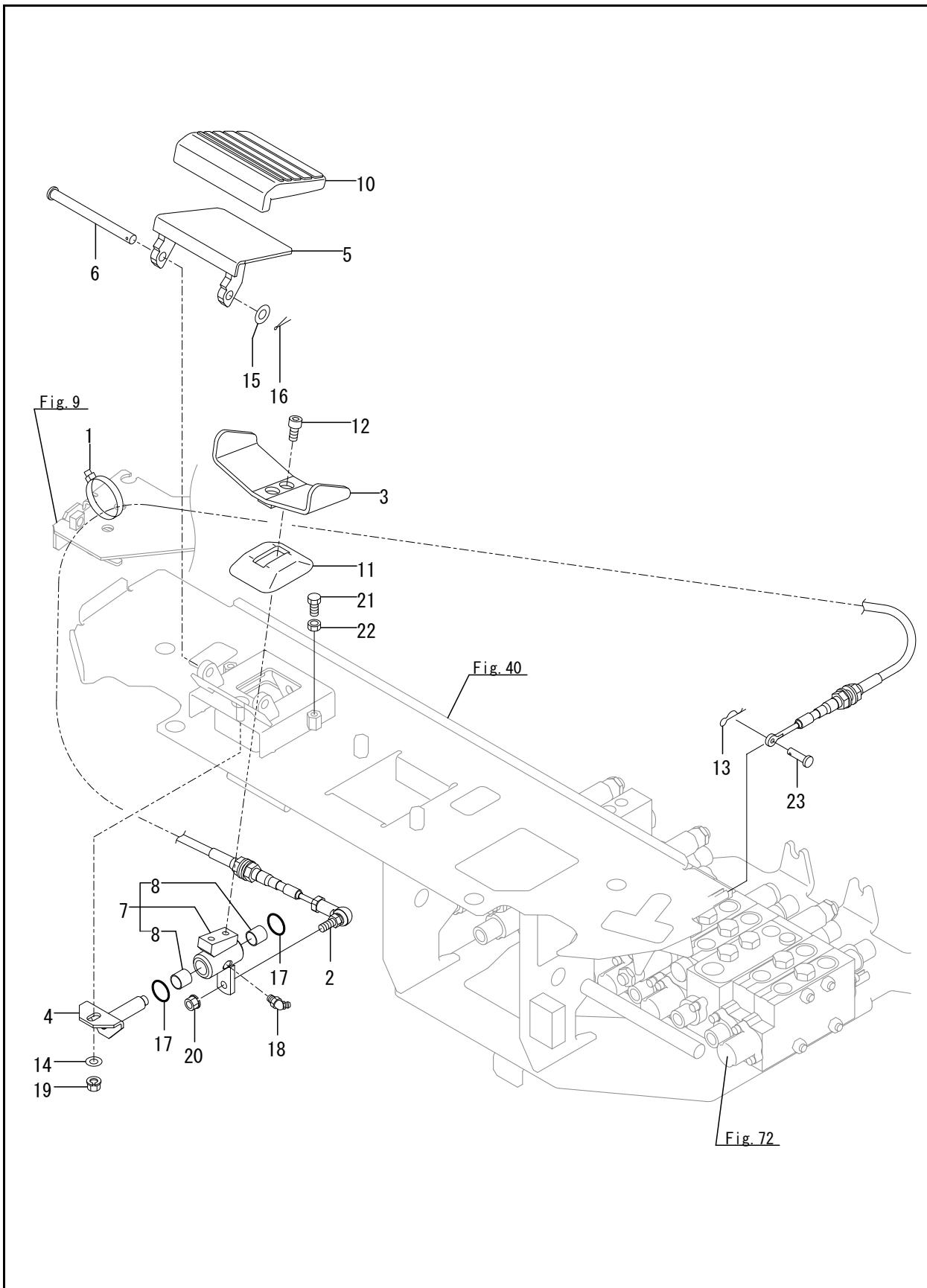
**Z17 - COMPACT EXCAVATOR**  
**FIG. 32 - CONTROL EQUIPMENT (VARIABLE LEG LEVER)**

Ref.

No.	Part No.	Description	Qty.
1	50285862	KNOB, THROTTLE LEVER	1
2	50285523	LEVER ASSY, W-N	1
3	50285524	PLATE, LINK	1
4	50285525	LINK ARM ASSY,W-N	1
5	50284017	PIN 6,COME-OFF SNAP	1
6	50282380	WASHER 8, POLISHED	1
7	50282416	SNAP PIN 10	1
8	50285882	SNAP PIN 14	1
9	50282575	U-NUT M 8	1
10	50284148	PIN 4.75X14	1

# Z17 - COMPACT EXCAVATOR

## FIG. 33 - CONTROL EQUIPMENT (SWING PEDAL)



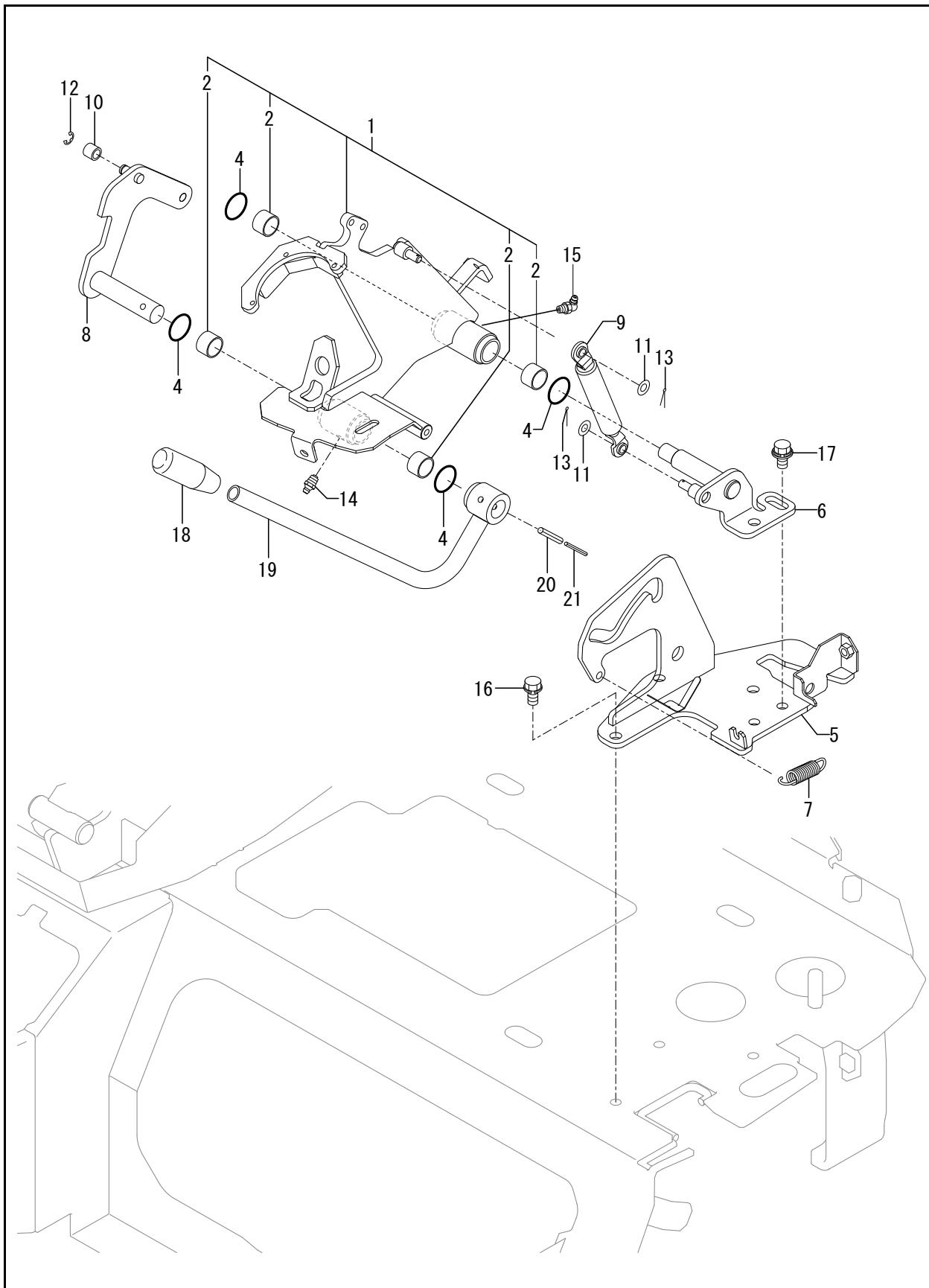
**Z17 - COMPACT EXCAVATOR**  
**FIG. 33 - CONTROL EQUIPMENT (SWING PEDAL)**

Ref.

No.	Part No.	Description	Qty.
1	50285407	BAND 100	1
2	50285512	CABLE,SWING	1
3	50285388	PEDAL,SWING (GRAY:49)	1
4	50285306	SHAFT CMP	1
5	50285389	COVER,PEDAL (GRAY:49)	1
6	50280936	SHAFT, PEDAL COVER	1
7	50285520	LINK, ASSY	1
8	50282726	BUSHING 1415	2
10	50280938	COVER PAD	1
11	50285272	BOOTS, PEDAL	1
12	50285276	BOLT	2
13	50284017	PIN 6,COME-OFF SNAP	1
14	50282380	WASHER 8, POLISHED	1
15	138111	WASHER/POLISHED	1
16	50282419	COTTER PIN 2.5X20	1
17	50284076	O-RING 1A P-21.0	2
18	50282498	NIPPLE B,GREASE	1
19	50282548	NUT M 8	1
20	50282548	NUT M 8	1
21	50285911	BOLT M8 X 25 PLATED	2
22	50282596	NUT M 8	2
23	50284148	PIN 4.75X14	1

# Z17 - COMPACT EXCAVATOR

## FIG. 34 - CONTROL EQUIPMENT (LOCK LEVER & STAND) (LEFT)



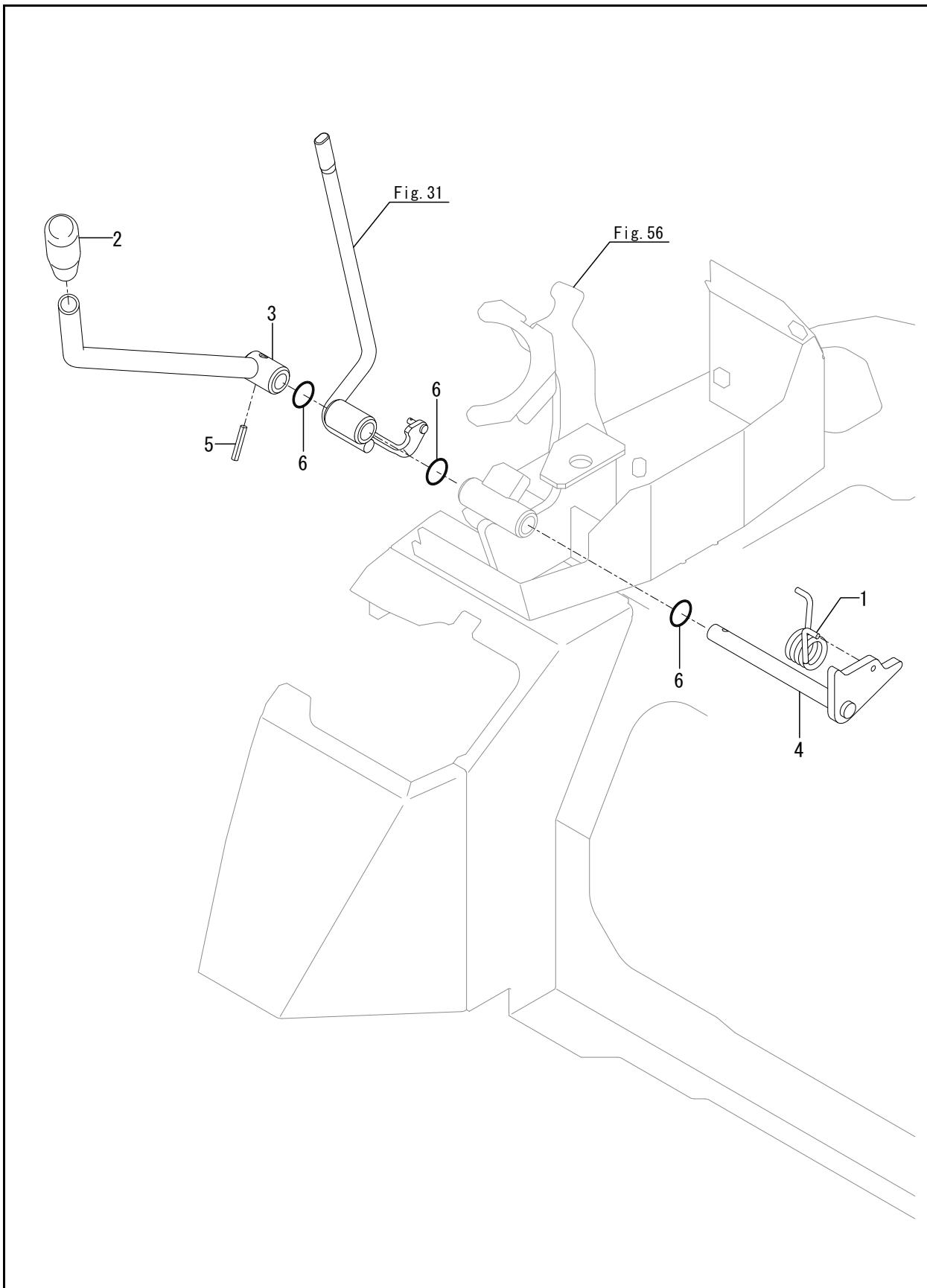
**Z17 - COMPACT EXCAVATOR**  
**FIG. 34 - CONTROL EQUIPMENT (LOCK LEVER & STAND) (LEFT)**

Ref.

No.	Part No.	Description	Qty.
1	50285528	LEVER STAND ASSY, L	1
2	50280810	BUSHING 2015	4
4	50280793	O-RING 27X5.7	4
5	50285529	BASE ASSY,LEVER L(73)	1
6	50283519	PLATE ASSY, BASE	1
7	50281653	SPRING 2.3X15X60	1
8	50283520	ROD ASSY, SPRING	1
9	50281071	SPRING,GAS	1
10	50280894	BUSHING	1
11	50282380	WASHER 8, POLISHED	2
12	176152	CIRCLIP E-7	1
13	50282418	COTTER PIN 2.0X20	2
14	50282497	NIPPLE PT1/8,GREASE	1
15	50282499	NIPPLE C,GREASE	1
16	50282515	BOLT W/WASHER M10X20	3
17	50282539	BOLT 10X25 W/PLW+SPW	2
18	50282079	GRIP,RED	1
19	50283522	LOCK LEVER ASSY,L	1
20	50282413	SPRING PIN 3.5X40	1
21	50282414	SPRING PIN 6X40	1

# Z17 - COMPACT EXCAVATOR

## FIG. 35 - CONTROL EQUIPMENT (LOCK LEVER & STAND) (RIGHT)



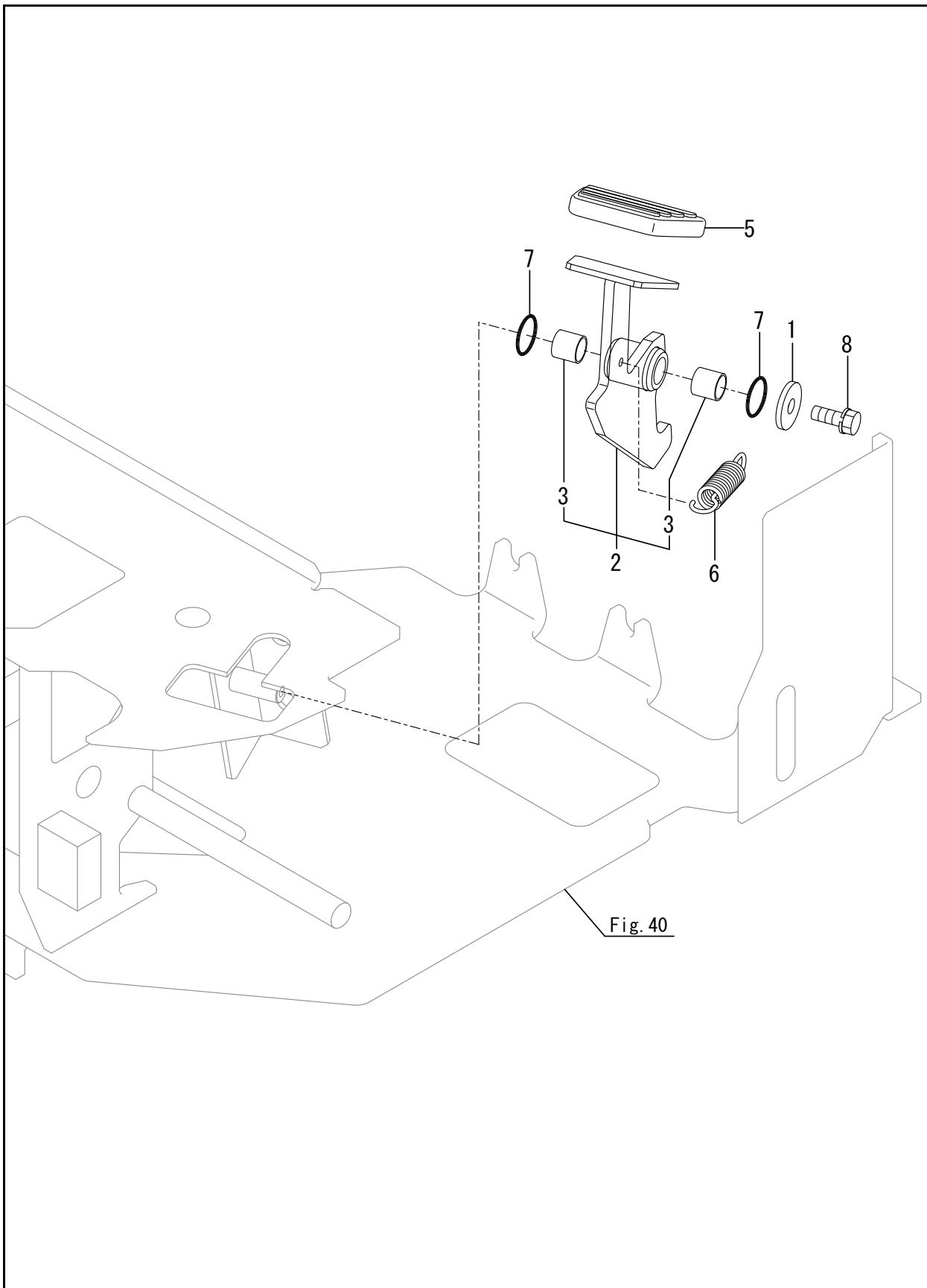
**Z17 - COMPACT EXCAVATOR****FIG. 35 - CONTROL EQUIPMENT (LOCK LEVER & STAND) (RIGHT)**

Ref.

No.	Part No.	Description	Qty.
1	50282800	SPRING	1
2	50282079	GRIP,RED	1
3	50285531	LOCK LEVER ASSY,R	1
4	50285532	SHAFT ASSY,R LEVER	1
5	50284057	SPRING PIN 5X32	1
6	50284076	O-RING 1A P-21.0	3

# Z17 - COMPACT EXCAVATOR

## FIG. 36 - CONTROL EQUIPMENT (LOW-HIGH PEDAL)



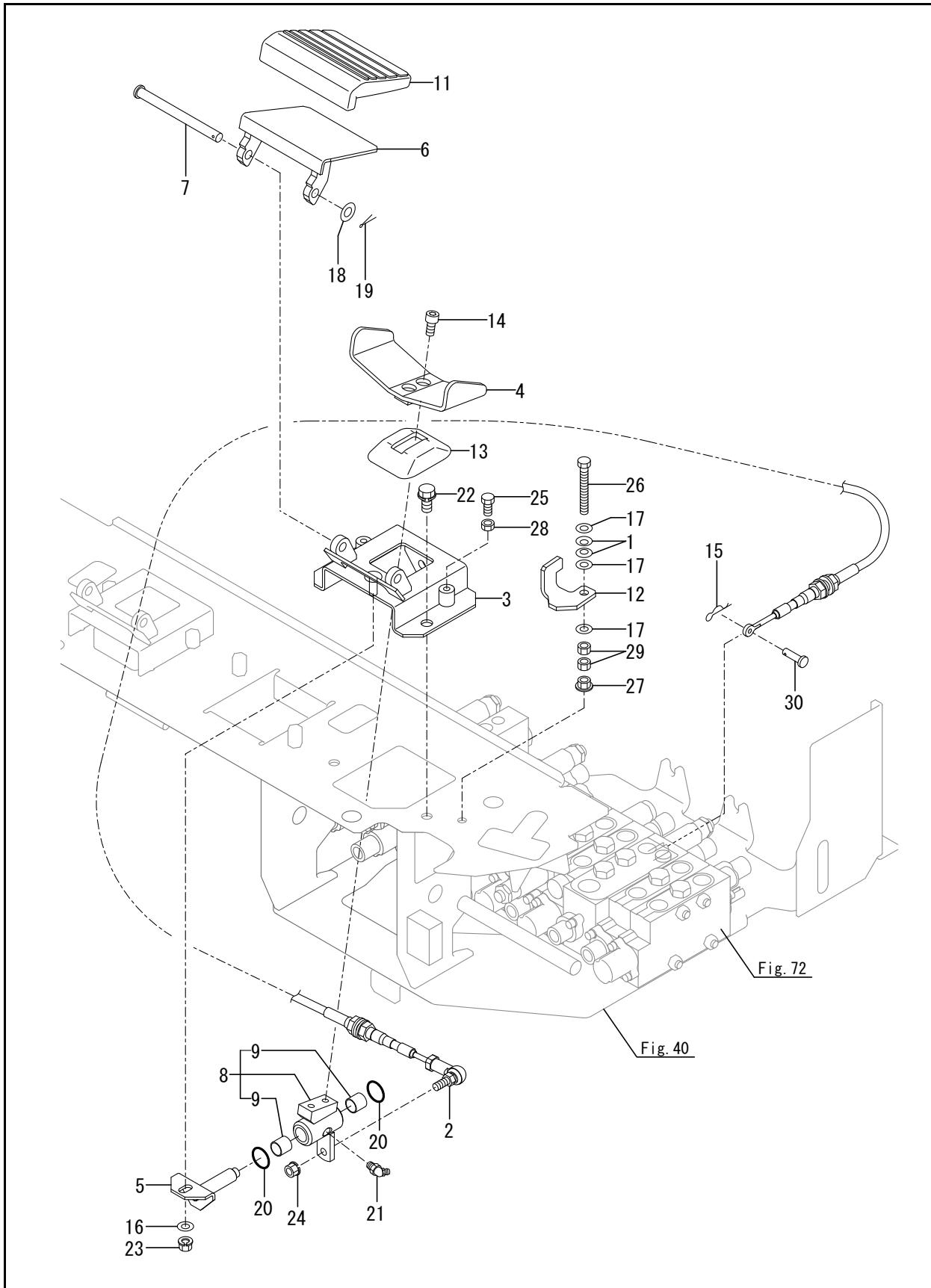
**Z17 - COMPACT EXCAVATOR**  
**FIG. 36 - CONTROL EQUIPMENT (LOW-HIGH PEDAL)**

Ref.

No.	Part No.	Description	Qty.
1	50284006	SPRING WASHER	1
2	50285526	PEDAL ASSY (GRAY:49)	1
3	50282726	BUSHING 1415	2
5	50282967	PAD,PEDAL	1
6	50282772	SPRING	1
7	50284076	O-RING 1A P-21.0	2
8	50282506	BOLT W/WASHER M8X16	1

# Z17 - COMPACT EXCAVATOR

## FIG. 37 - CONTROL EQUIPMENT (P.T.O. PEDAL)



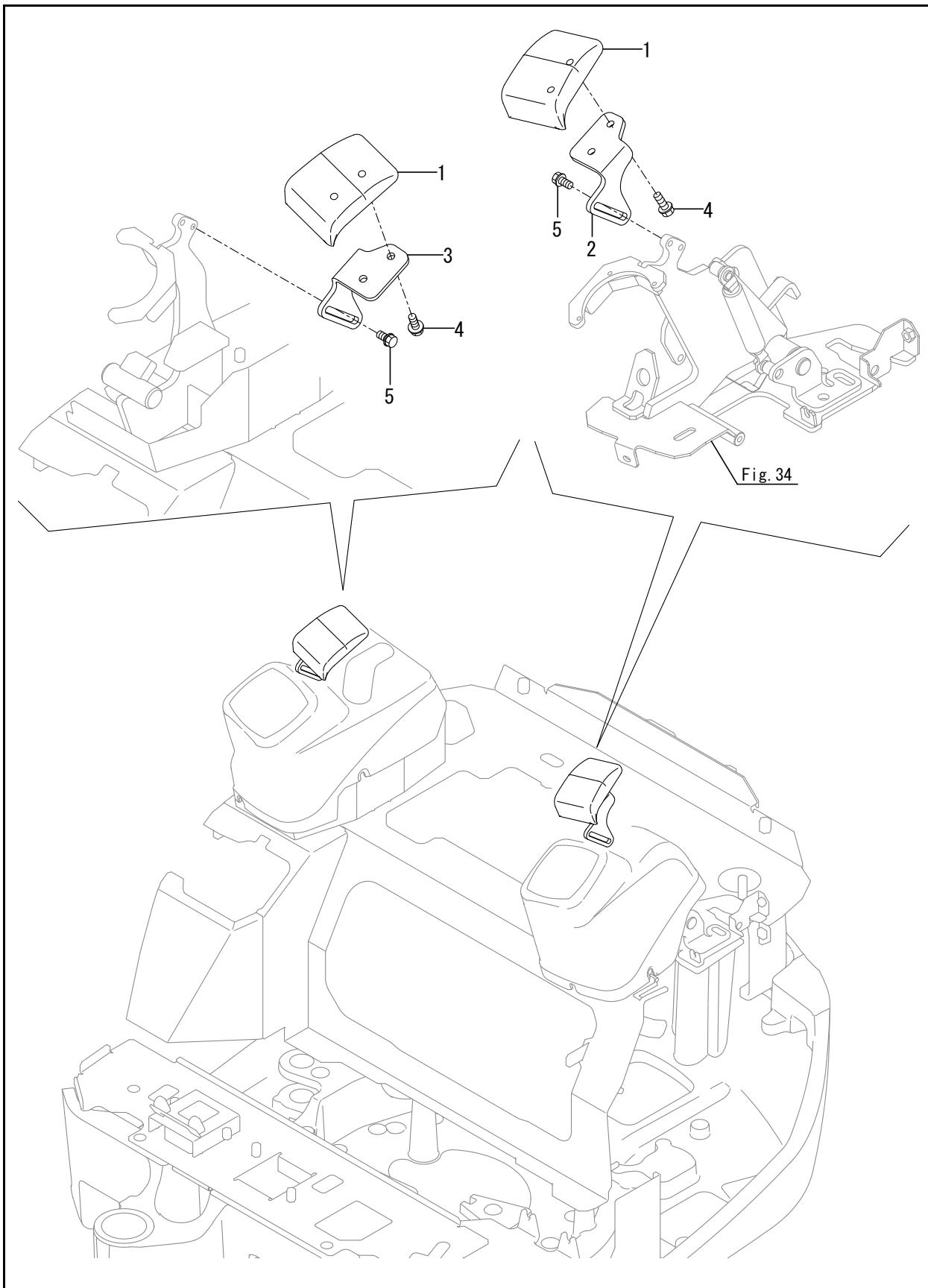
**Z17 - COMPACT EXCAVATOR**  
**FIG. 37 - CONTROL EQUIPMENT (P.T.O. PEDAL)**

Ref.

No.	Part No.	Description	Qty.
1	50285233	SPRING 8	2
2	50285513	CABLE,PTO	1
3	50285341	BRACKET,PTO(GRAY:49)	1
4	50285388	PEDAL,SWING(GRAY:49)	1
5	50285306	SHAFT CMP	1
6	50285389	COVER,PEDAL(GRAY:49)	1
7	50280936	SHAFT, PEDAL COVER	1
8	50285520	LINK, ASSY	1
9	50282726	BUSHING 1415	2
11	50280938	COVER PAD	1
12	50285342	LOCK PLATE	1
13	50285272	BOOTS, PEDAL	1
14	50285276	BOLT	2
15	50284017	PIN 6,COME-OFF SNAP	1
16	50282380	WASHER 8, POLISHED	1
17	50282380	WASHER 8, POLISHED	3
18	138111	WASHER/POLISHED	1
19	50282419	COTTER PIN 2.5X20	1
20	50284076	O-RING 1A P-21.0	2
21	50282498	NIPPLE B,GREASE	1
22	50282515	BOLT W/WASHER M10X20	2
23	50282548	NUT M 8	1
24	50282548	NUT M 8	1
25	50285911	BOLT M8 X 25 PLATED	2
26	50285914	BOLT M8 X 60	1
27	425-35206	NUT M8 W/WASHER	1
28	50282596	NUT M 8	2
29	50285925	LOCK NUT M8 PLATED	2
30	50284148	PIN 4.75X14	1

# Z17 - COMPACT EXCAVATOR

## FIG. 39 - ARM REST

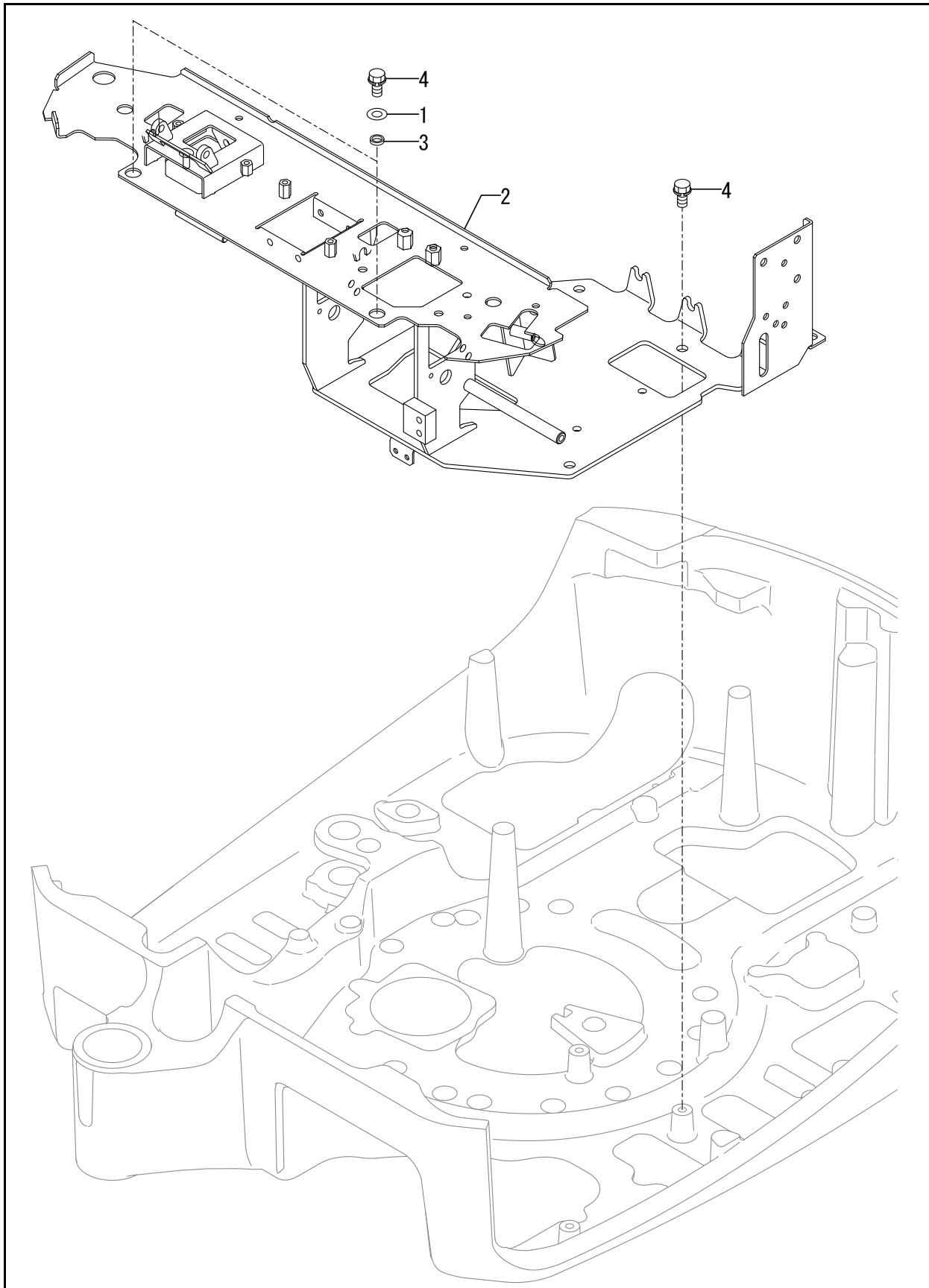


**Z17 - COMPACT EXCAVATOR**  
**FIG. 39 - ARM REST**

Ref.

No.	Part No.	Description	Qty.
1	50281043	ARM REST	2
2	50283333	GUIDE ASSY	1
3	5028334	PLATE, GUIDE	1
4	50281318	BOLT 8X 16	4
5	50281318	BOLT 8X 16	4

**Z17 - COMPACT EXCAVATOR**  
**FIG. 40 - CONTROL VALVE PLATE**



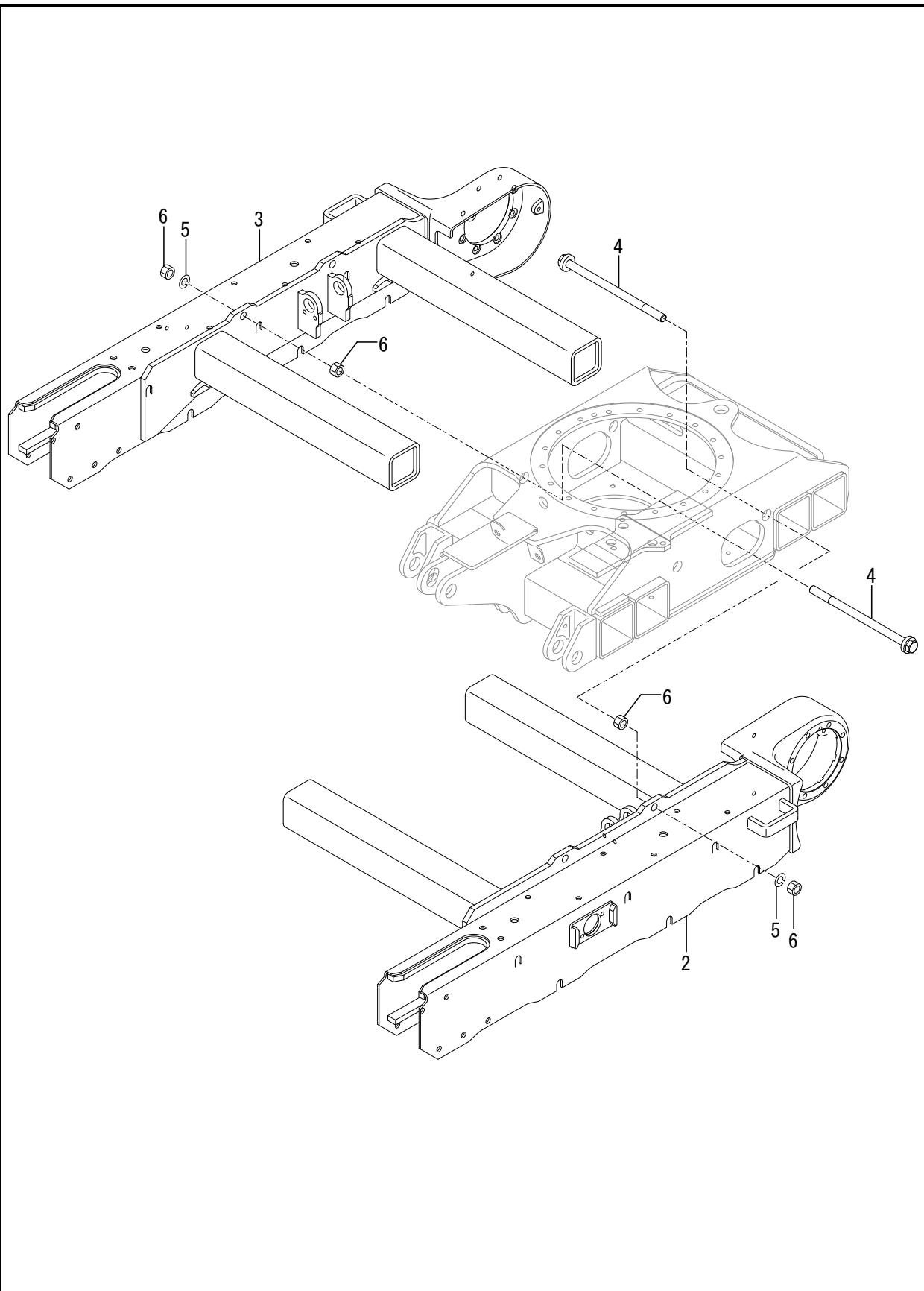
**Z17 - COMPACT EXCAVATOR**  
**FIG. 40 - CONTROL VALVE PLATE**

Ref.

No.	Part No.	Description	Qty.
1	50284406	WASHER	2
2	50285517	VALVE STAND ASSY(49)	1
3	50285518	COLLAR, 17.3X2.3X4	2
4	50284101	BOLT M12X 25	6

# Z17 - COMPACT EXCAVATOR

## FIG. 41 - TRACK FRAME



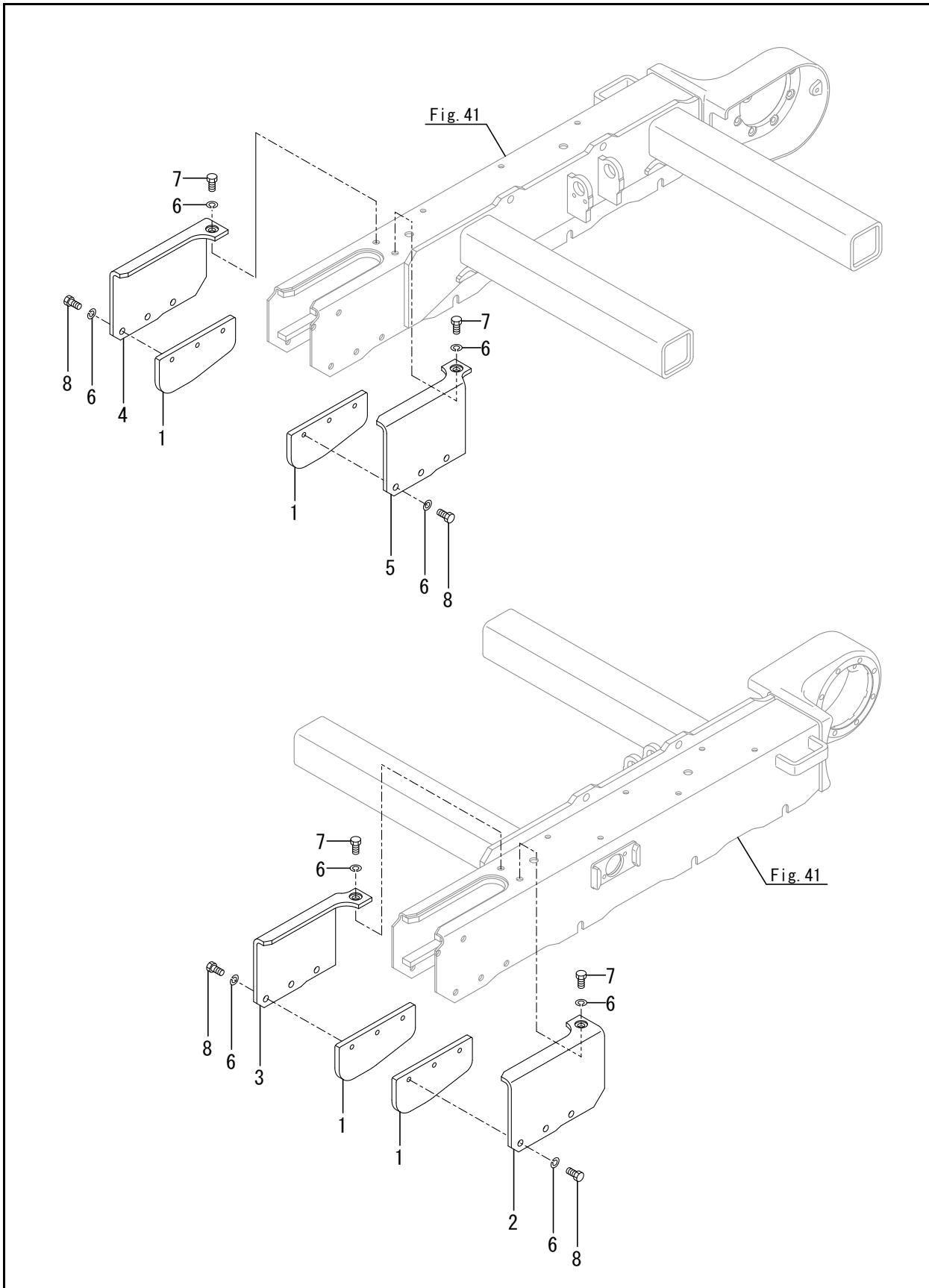
**Z17 - COMPACT EXCAVATOR**  
**FIG. 41 - TRACK FRAME**

Ref.

No.	Part No.	Description	Qty.
2	50285542	CRAWLER FRAME LT	1
3	50285544	CRAWLER FRAME RT	1
4	50285546	BOLT ASSY, STOPPER	4
5	50282396	SPRING WASHER 16	4
6	50282599	NUT M16	8

# Z17 - COMPACT EXCAVATOR

## FIG. 42 - CRAWLER GUARD



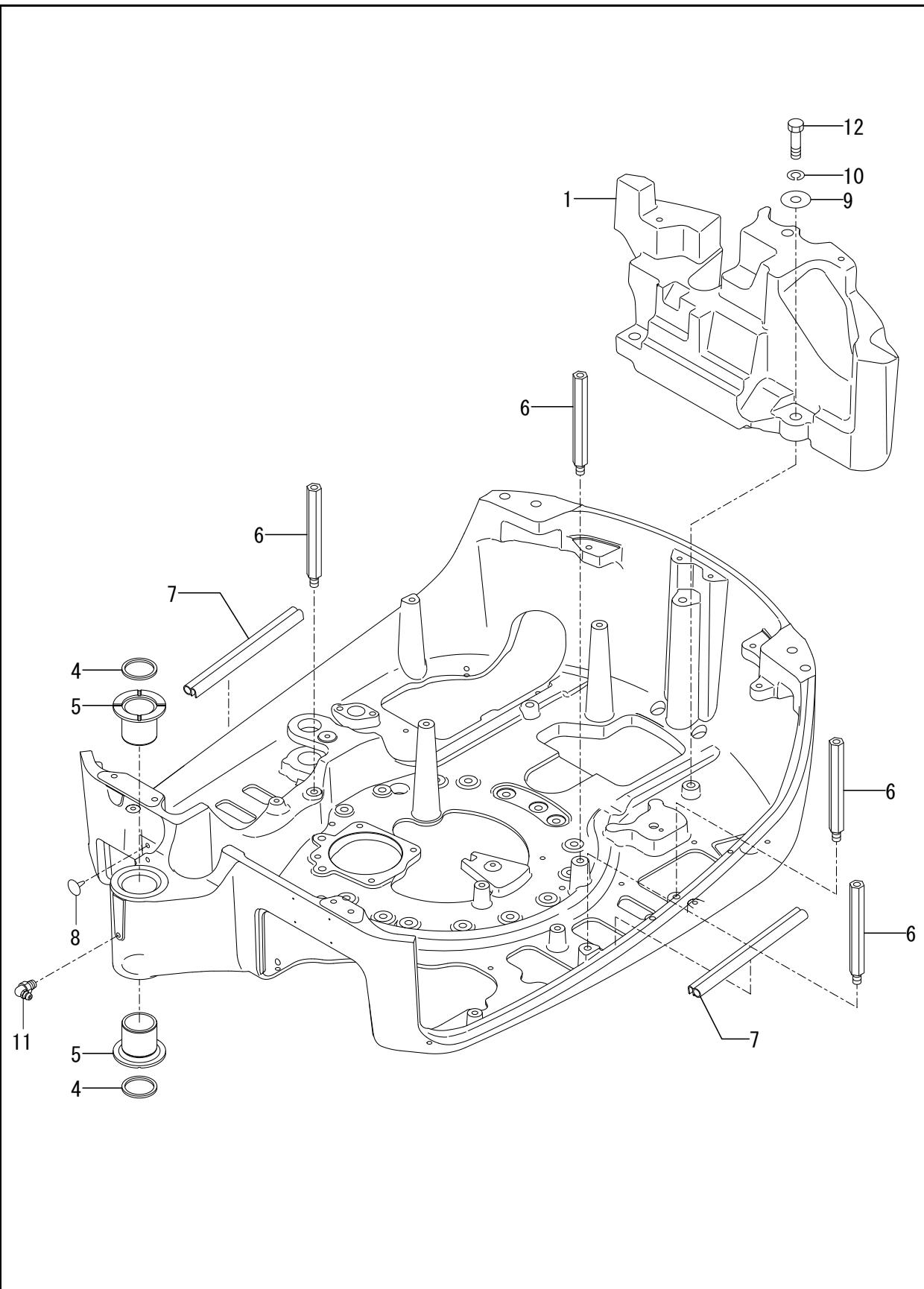
**Z17 - COMPACT EXCAVATOR**  
**FIG. 42 - CRAWLER GUARD**

Ref.

No.	Part No.	Description	Qty.
1	50285343	SHOE GUARD	4
2	50285550	SIDE PLATE LI	1
3	50285551	SIDE PLATE LR	1
4	50285552	SIDE PLATE RR	1
5	50285553	SIDE PLATE RL	1
6	425-34902	SPRING WASHER 12	16
7	50285905	BOLT, 12 X 25	4
8	50284108	BOLT M12 X 30	12

# Z17 - COMPACT EXCAVATOR

## FIG. 43 - TURNING FRAME



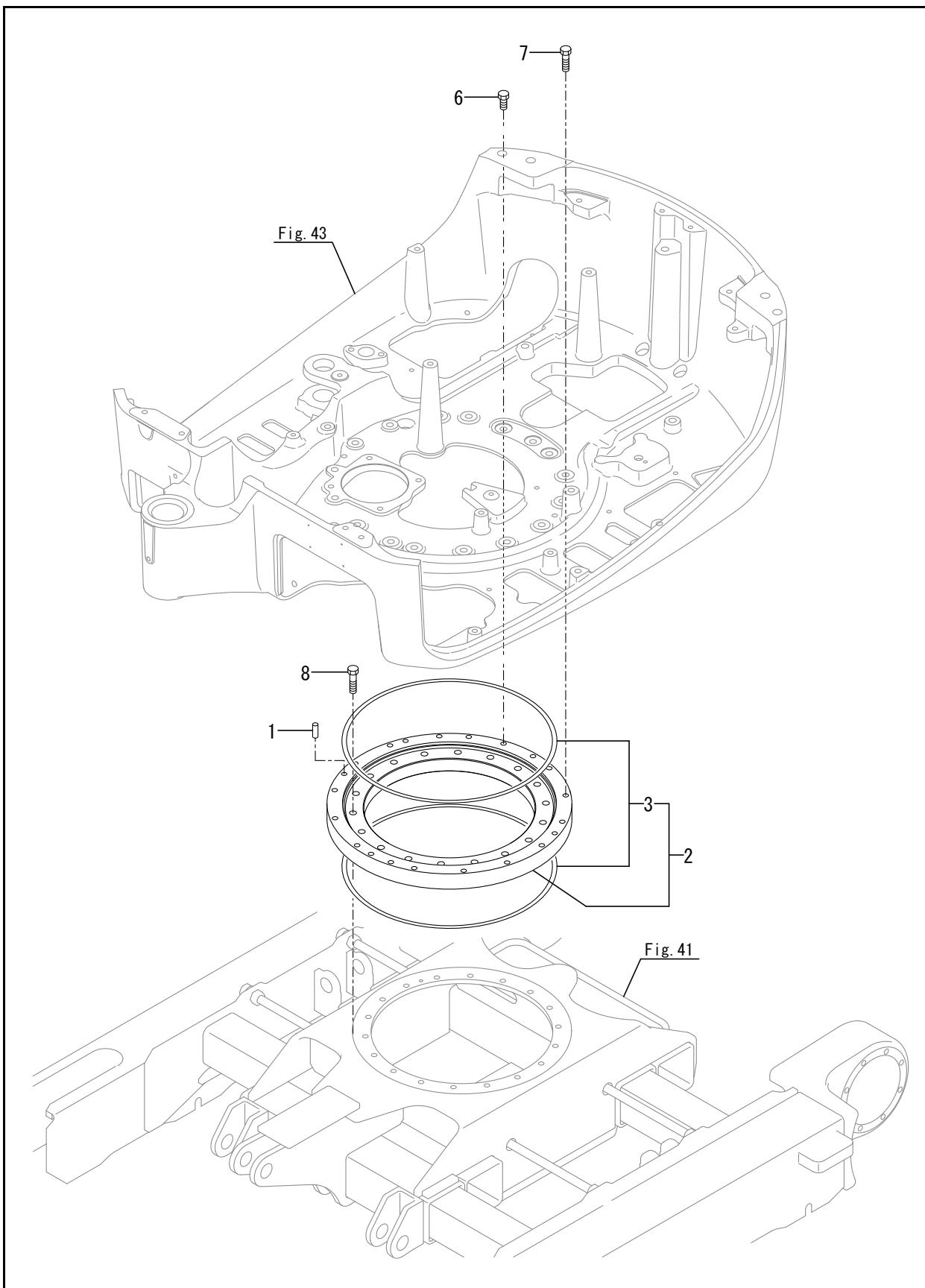
**Z17 - COMPACT EXCAVATOR**  
**FIG. 43 - TURNING FRAME**

Ref.

No.	Part No.	Description	Qty.
1	50285555	WEIGHT	1
4	50281061	SEAL 50X60X4,DUST	2
5	50285280	BUSHING 50X65	2
6	50285561	SUPPORT, STAND 185	4
7	50285310	SEAL,WEIGHT C	2
8	50284234	CLIP, TREE	2
9	50282389	WASHER, 14	3
10	50282396	SPRING WASHER 16	3
11	50282499	NIPPLE C,GREASE	1
12	50285917	BOLT M16 X 60 PLATED	3

# Z17 - COMPACT EXCAVATOR

## FIG. 44 - TURNING BEARING



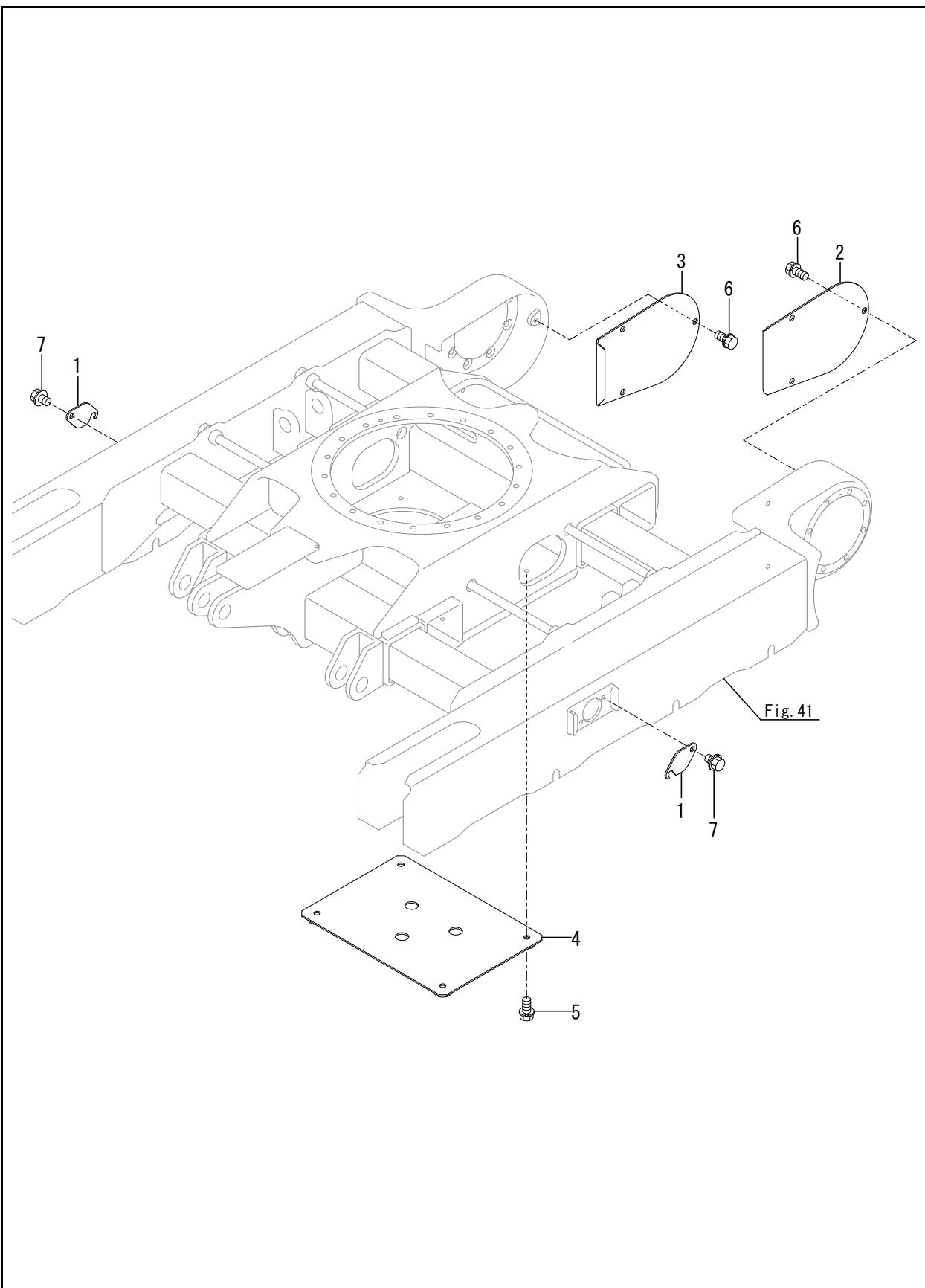
**Z17 - COMPACT EXCAVATOR**  
**FIG. 44 - TURNING BEARING**

Ref.

No.	Part No.	Description	Qty.
1	50285868	PIN 10X28,STRAIGHT	3
2	50285323	BEARING,TURNING	1
3	50285257	SEAL SET	1
6	50285905	BOLT, 12 X 25	3
7	50284109	BOLT 10.9 M12 X 4	14
8	50285162	BOLT	18

## Z17 - COMPACT EXCAVATOR

## **FIG. 45 - COVER (LOWER)**



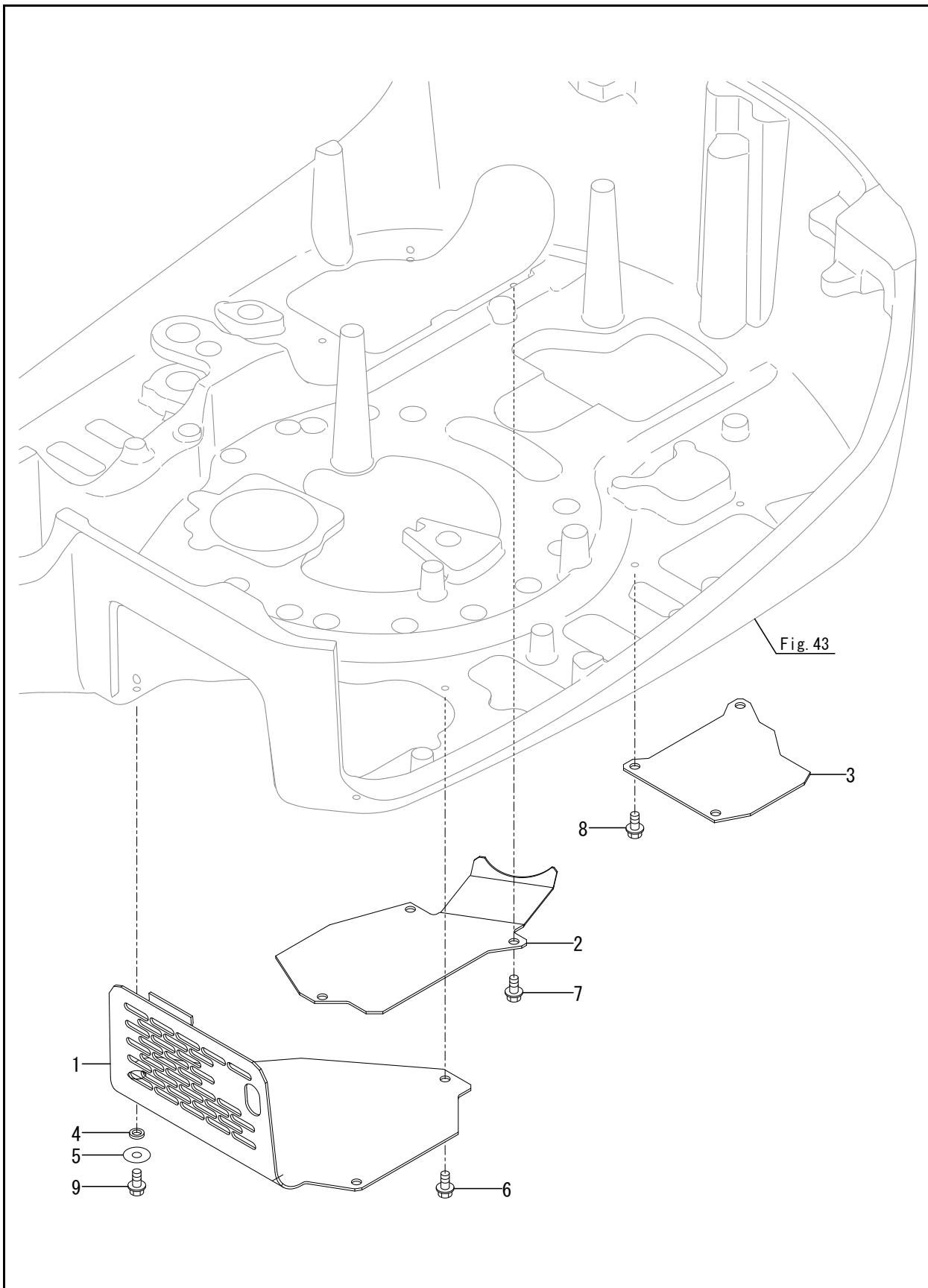
**Z17 - COMPACT EXCAVATOR**  
**FIG. 45 - COVER (LOWER)**

Ref.

No.	Part No.	Description	Qty.
1	50281136	FRAME COVER	2
2	50285571	MOTOR COVER	1
3	50285572	MOTOR COVER R	1
4	50285573	SJ COVER ASSY	1
5	50282515	BOLT W/WASHER M10X20	4
6	50282538	BOLT M10X 20	6
7	50282558	BOLT M10X 12 PLATED	4

# Z17 - COMPACT EXCAVATOR

## FIG. 46 - COVER (TURNING FRAME UNDER)



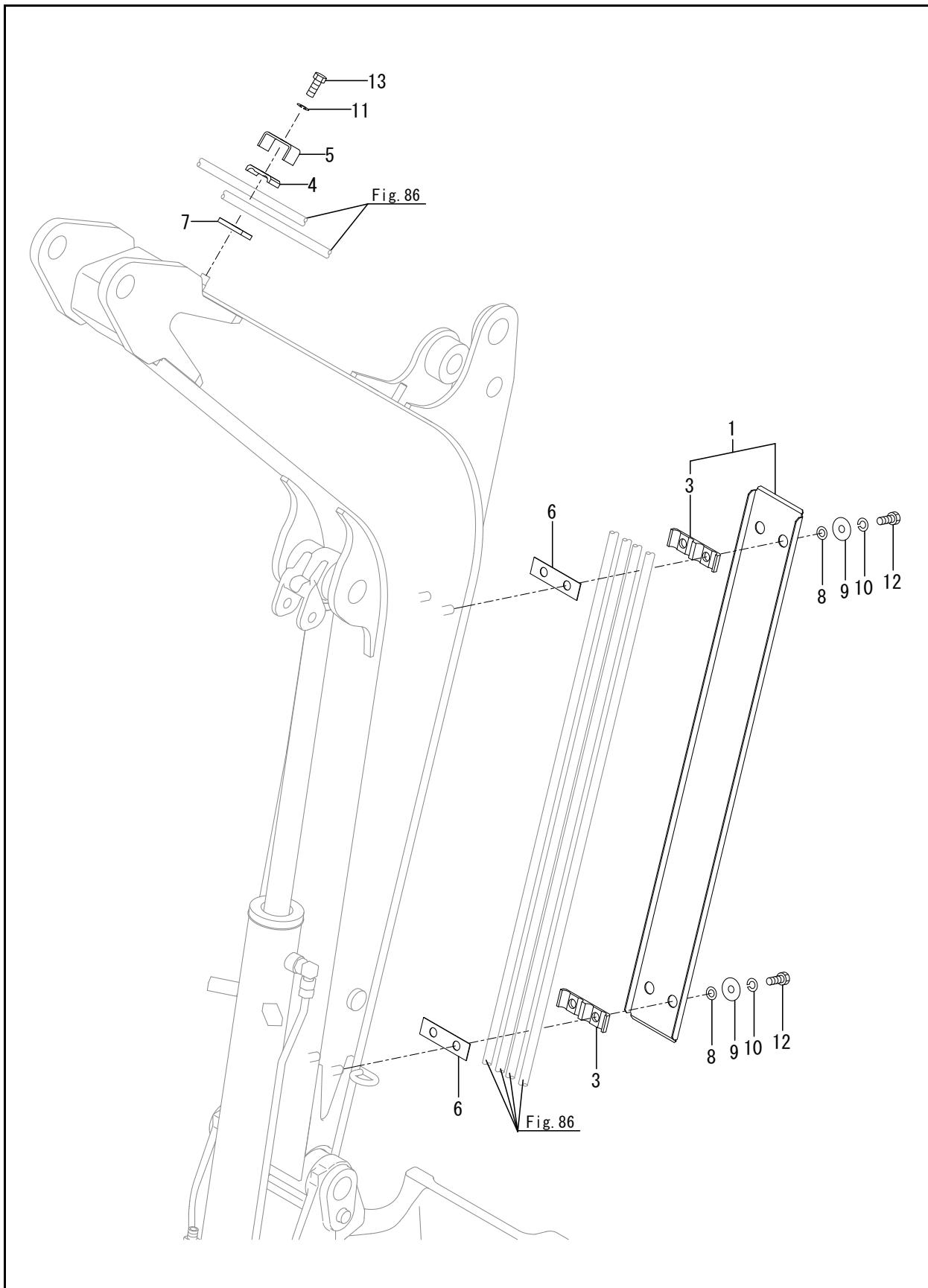
**Z17 - COMPACT EXCAVATOR**  
**FIG. 46 - COVER (TURNING FRAME UNDER)**

Ref.

No.	Part No.	Description	Qty.
1	50285563	C/V COVER ASSY	1
2	50285564	EX UNDER COVER	1
3	50285565	PUMP COVER	1
4	50285566	COLLAR	1
5	50282387	WASHER 10	1
6	186619	BOLT M10X 16 PLATED	2
7	186619	BOLT M10X 16 PLATED	3
8	186619	BOLT M10X 16 PLATED	3
9	138133	BOLT M10 X 20 PLATED	1

# Z17 - COMPACT EXCAVATOR

## FIG. 47 - COVER (HOSE)

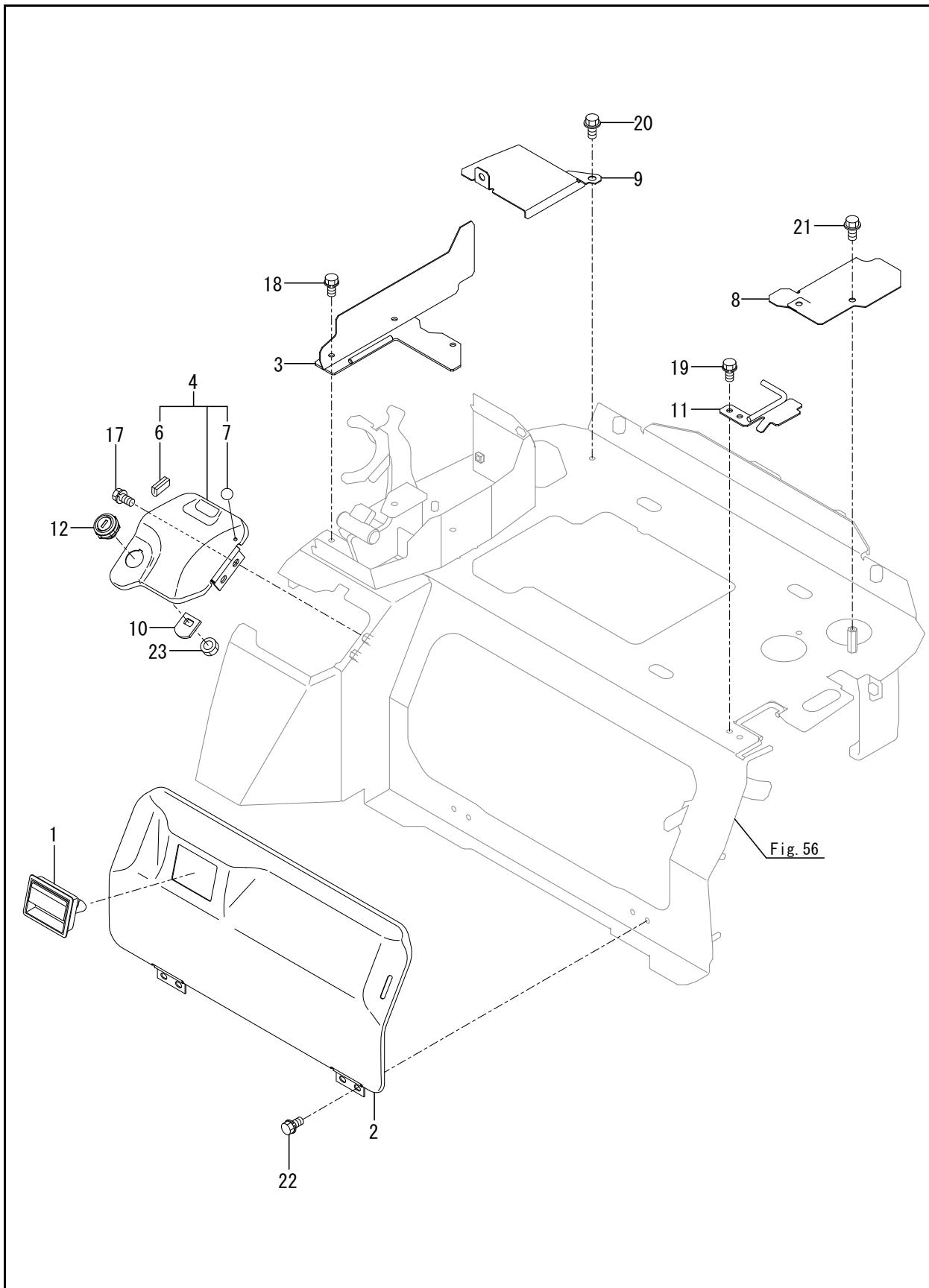


**Z17 - COMPACT EXCAVATOR**  
**FIG. 47 - COVER (HOSE)**

Ref.

No.	Part No.	Description	Qty.
1	50286307	HOSE COVER ASSY	1
3	50285268	SUPPORT, HOSE A	2
4	50285269	SUPPORT, HOSE B	1
5	50286187	HOSE CLAMP	1
6	50285319	RUBBER PLATE A	2
7	50285320	RUBBER PLATE B	1
8	138515	WASHER 8	4
9	186593	WASHER 8	4
10	50282392	WASHER, 8	4
11	50282392	WASHER, 8	1
12	50285909	BOLT 8X16	4
13	50285909	BOLT 8X16	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 49 - COVER (SEAT MOUNT)**



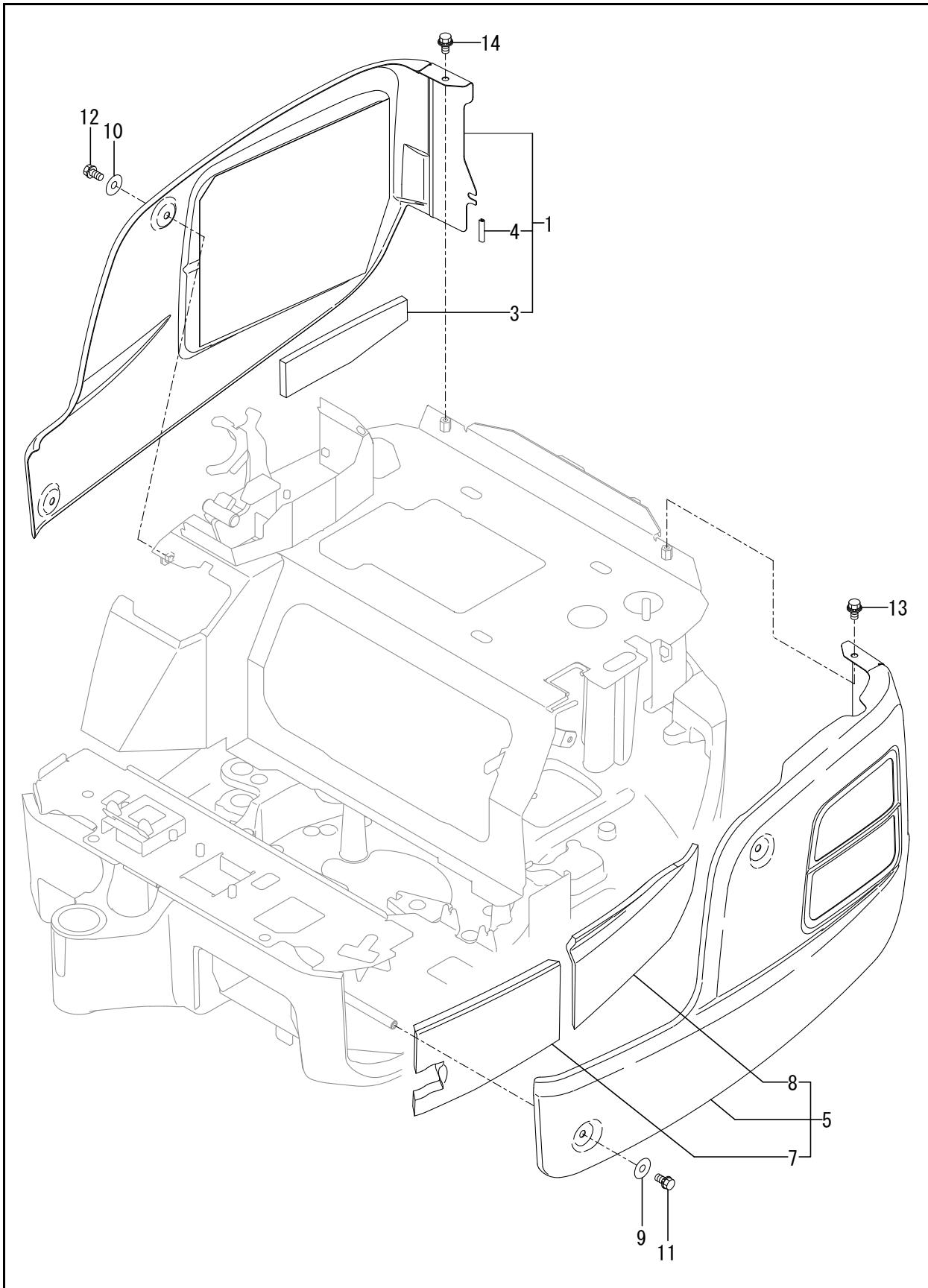
**Z17 - COMPACT EXCAVATOR**  
**FIG. 49 - COVER (SEAT MOUNT)**

Ref.

No.	Part No.	Description	Qty.
1	50280945	HANDLE, LOCK	1
2	50285575	COVER ASSY, BATTERY (use with labels 2A, 2B, 2C)	1
2A	50281172	LABEL, SUPPORT US (see Page 4)	1
2B	50281024	LABEL, BATTERY US (see Page 4)	1
2C	50285313	LABEL, VARIABLE US (see Page 4)	1
3	50285576	PLATE ASSY, COVER(73)	1
4	50285577	COVER ASSY, FO (73)	1
6	50285400	RUBBER, 20	1
7	50285290	PLUG	1
8	50285578	COVER, RES CAP	1
9	50285579	COVER, RADIATOR CAP	1
10	50285580	LOCK PLATE, FO	1
11	50285581	PLATE ASSY, COVER(73)	1
12	50280889	KEY ASSY, CYLINDER	1
17	50282533	BOLT M 8X 16	2
18	50282533	BOLT M 8X 16	4
19	50282533	BOLT M 8X 16	2
20	50282533	BOLT M 8X 16	2
21	50282533	BOLT M 8X 16	2
22	50282534	BOLT M 8X 20	4
23	50282576	U-NUT M10	1

# Z17 - COMPACT EXCAVATOR

## FIG. 50 - COVER (SIDE)

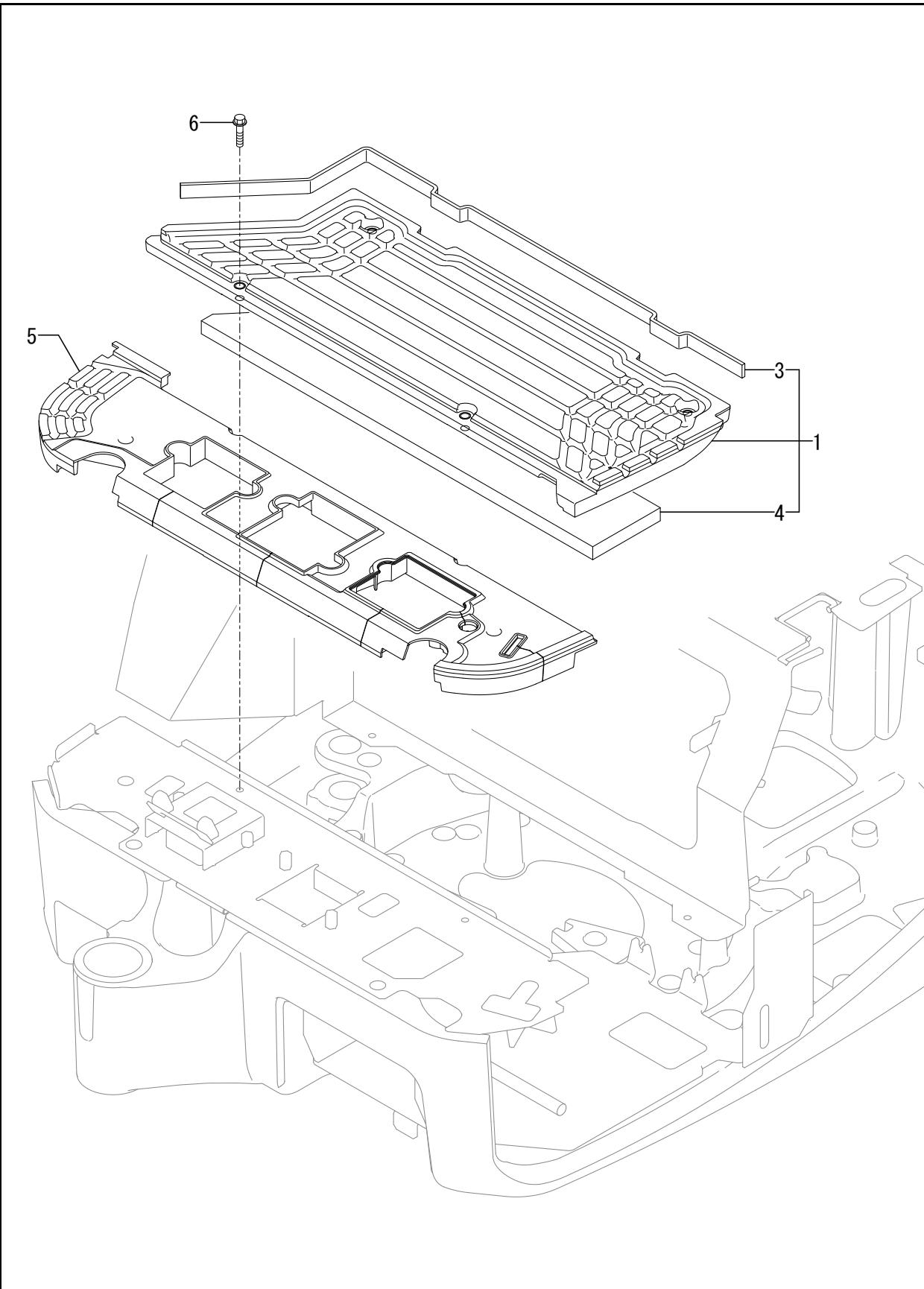


**Z17 - COMPACT EXCAVATOR**  
**FIG. 50 - COVER (SIDE)**

Ref.

No.	Part No.	Description	Qty.
1	50286303	COVER ASSY RT (use with labels 4A, 4B)	1
3	50285570	EV A, COVER R	1
4	50285312	RUBBER 45, EDGE	1
4A	50281023	LABEL, GREASE CYL. (see Page 4)	2
4B	50281029	LABEL, MUFFLER US (see Page 4)	1
5	50286305	COVER ASSY LT (use with label 8A)	1
7	50285568	EV A, COVER L	1
8	50285569	EV B, COVER L	1
8A	50281023	LABEL, GREASE CYL. (see Page 4)	2
9	50282387	WASHER 10	2
10	50282387	WASHER 10	2
11	50282515	BOLT W/WASHER M10X20	2
12	50282515	BOLT W/WASHER M10X20	2
13	50282538	BOLT M10X 20	2
14	50282538	BOLT M10X 20	2

**Z17 - COMPACT EXCAVATOR**  
**FIG. 53 - STEP (P.T.O. SPEC.)**



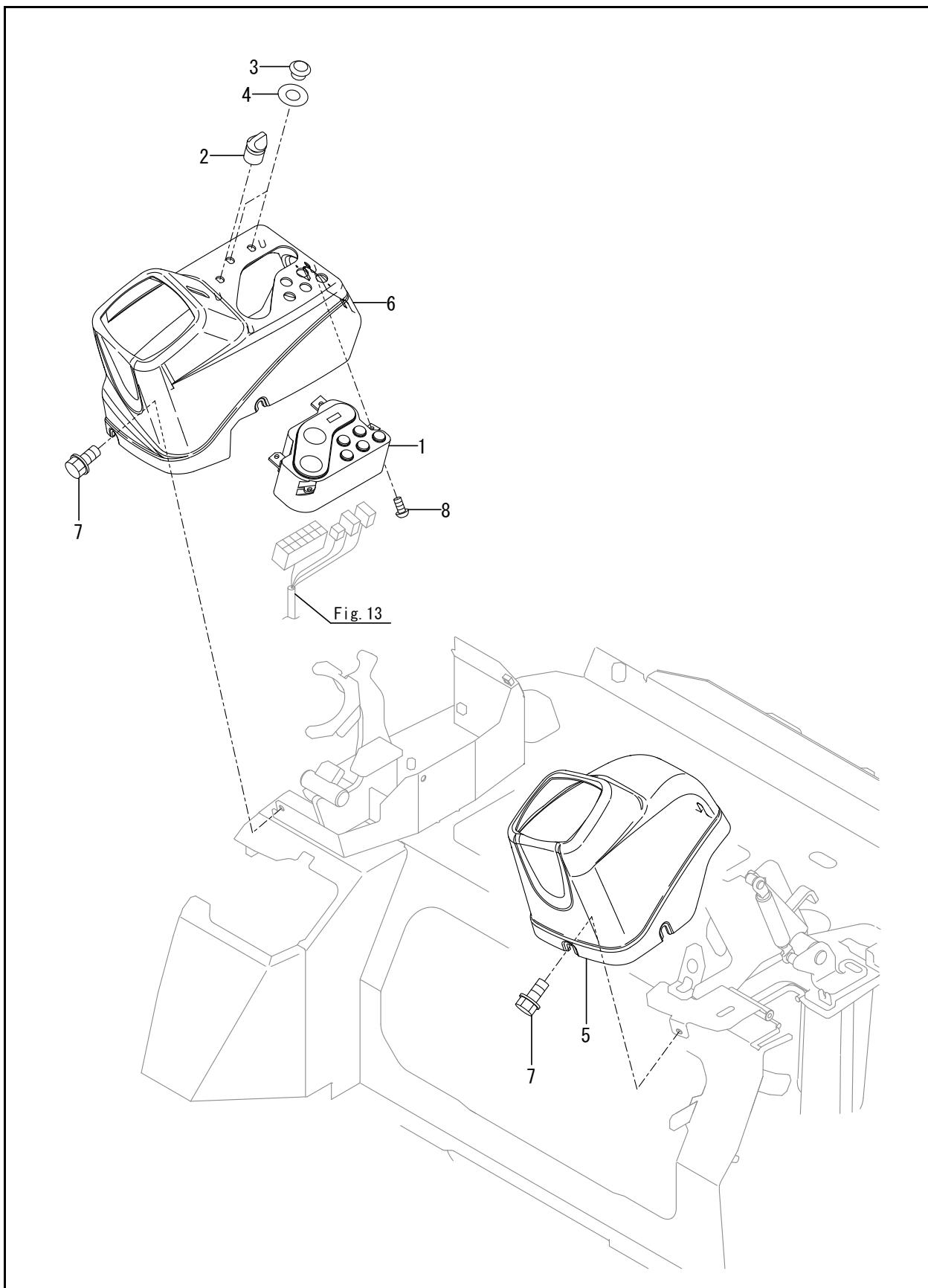
**Z17 - COMPACT EXCAVATOR**  
**FIG. 53 - STEP (P.T.O. SPEC.)**

Ref.

No.	Part No.	Description	Qty.
1	50285582	STEP ASSY	1
3	50285583	SEAL,STEP	1
4	50285584	EV,STEP	1
5	50285585	FLOORMAT,PTO	1
6	50285344	BOLT 8X35	4

# Z17 - COMPACT EXCAVATOR

## FIG. 54 - INSTRUMENT PANEL



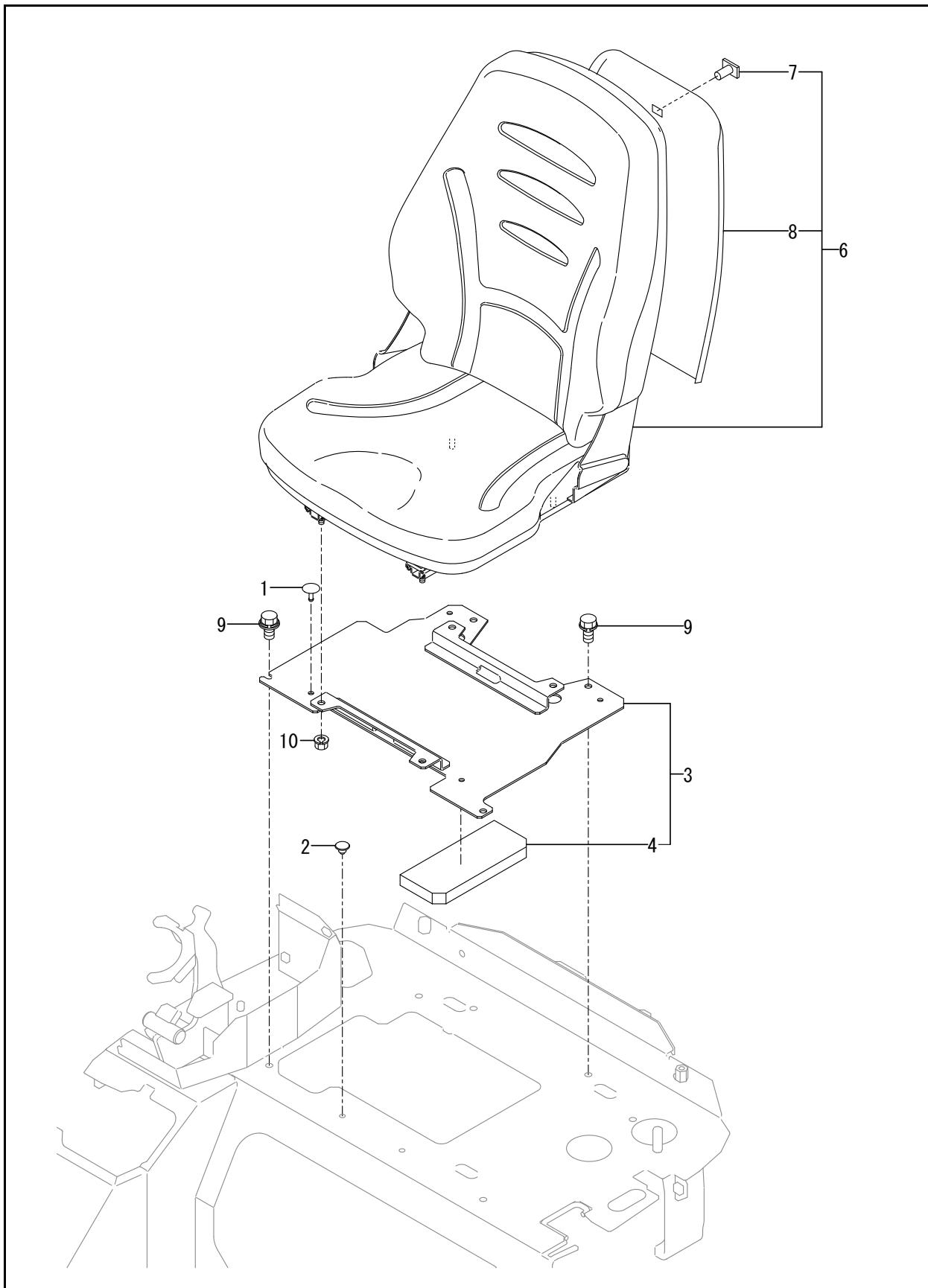
**Z17 - COMPACT EXCAVATOR**  
**FIG. 54 - INSTRUMENT PANEL**

Ref.

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

# Z17 - COMPACT EXCAVATOR

## FIG. 55 - SEAT



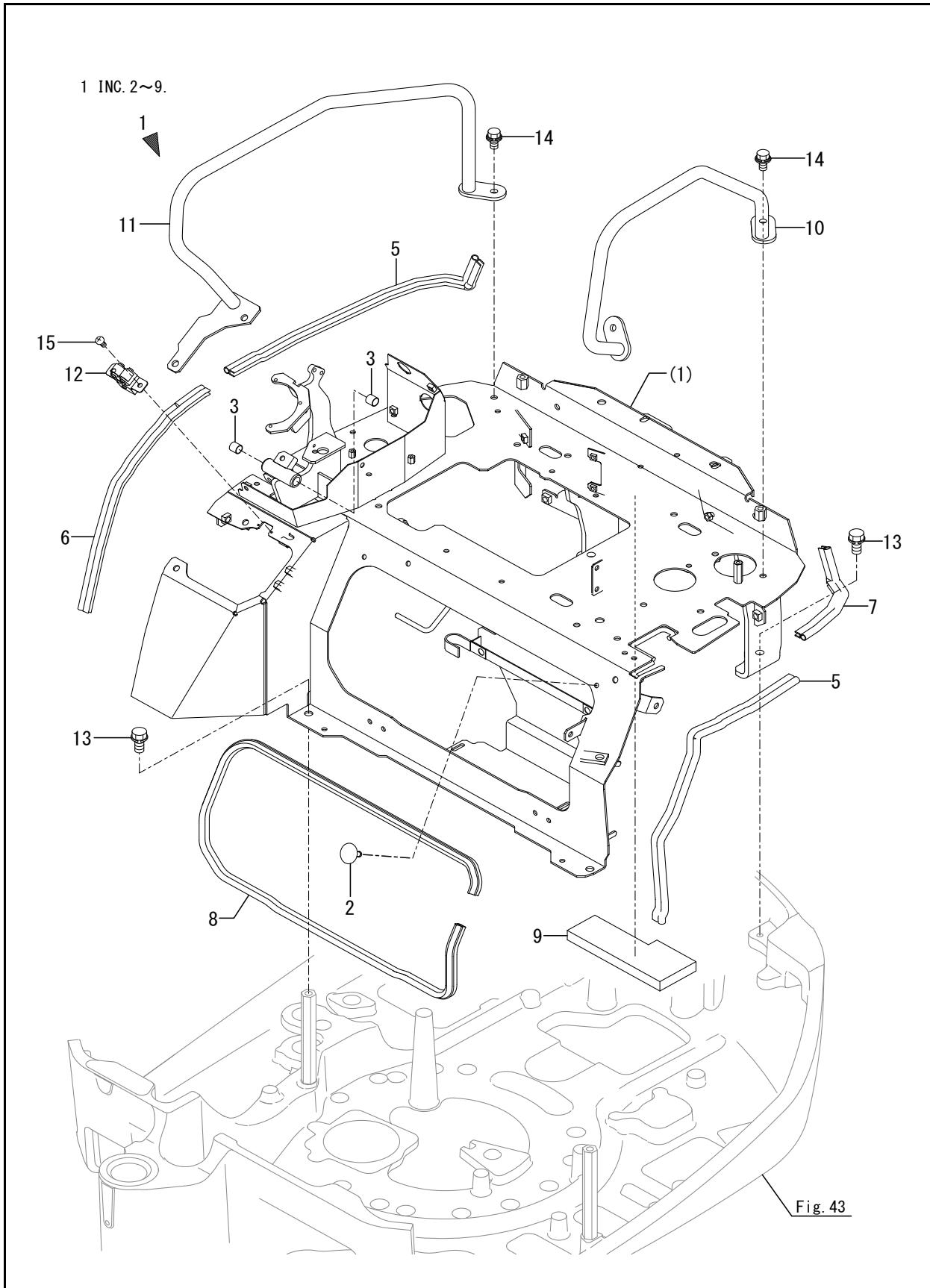
**Z17 - COMPACT EXCAVATOR**  
**FIG. 55 - SEAT**

Ref.

No.	Part No.	Description	Qty.
1	50280782	CLIP	4
2	50281050	CLIP	2
3	50285587	PLATE ASSY,US (73)	1
4	50285586	EV,SEAT BASE	1
6	50285421	OPERATOR SEAT ASSY	1
7	50286475	LATCH	1
8	50286476	COVER	1
9	50282538	BOLT M10X 20	4
10	50282548	NUT M 8	4

# Z17 - COMPACT EXCAVATOR

## FIG. 56 - SEAT MOUNT



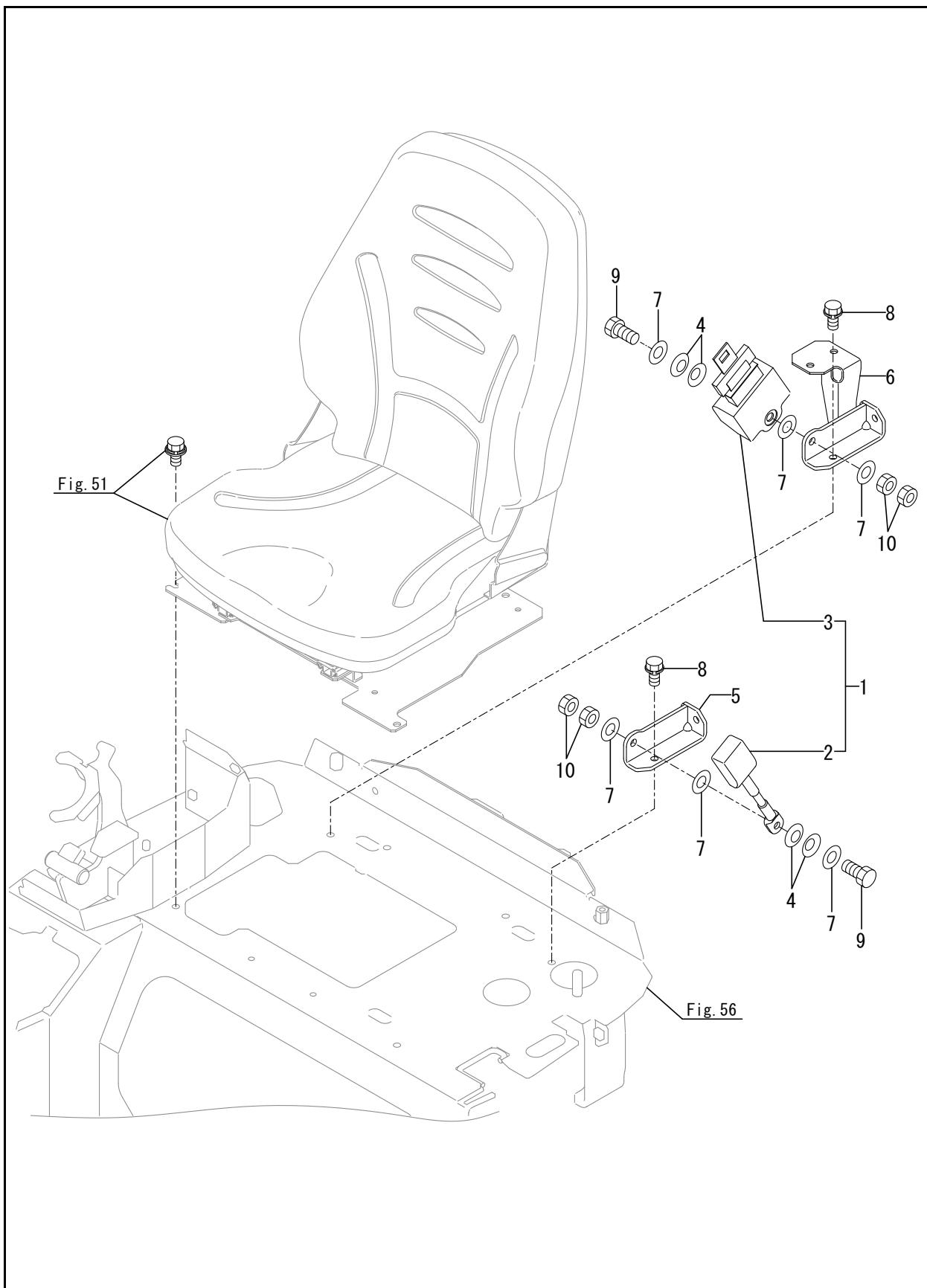
**Z17 - COMPACT EXCAVATOR**  
**FIG. 56 - SEAT MOUNT**

Ref.

No.	Part No.	Description	Qty.
1	50285589	MOUNT ASSY,SEAT	1
2	50280782	CLIP	2
3	50282726	BUSHING 1415	2
5	50285594	SEAL,600	2
6	50285595	SEAL,480	1
7	50285596	SEAL,240	1
8	50285598	SEAL,1500	1
9	50285599	EV,SEAT MOUNT	1
10	50285590	PIPE,HAND HOLD (73)	1
11	50285591	PIPE,HAND HOLD (73)	1
12	50285345	ROLLER CATCH,F	1
13	50282525	BOLT W/WASHER M12X30	4
14	50282538	BOLT M10X 20	5
15	50285921	SCREW M4 X 8	2

# Z17 - COMPACT EXCAVATOR

## FIG. 57 - SEAT BELT



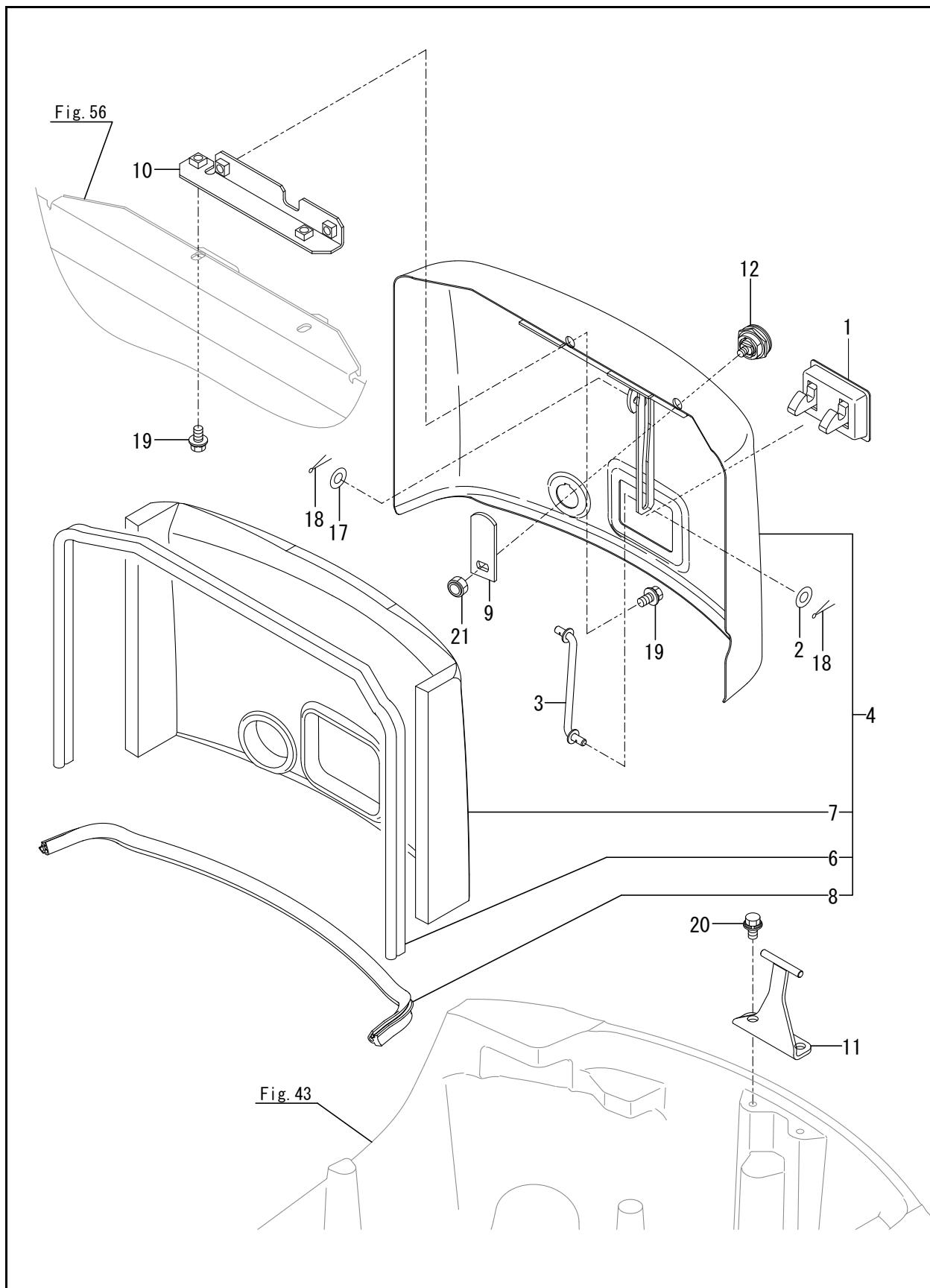
**Z17 - COMPACT EXCAVATOR**  
**FIG. 57 - SEAT BELT**

Ref.

No.	Part No.	Description	Qty.
1	50285417	SEAT BELT ASSY	1
2	50286592	SEATBELT ASSY, LT	1
3	50286593	SEATBELT ASSY, RT	1
4	50286513	SPRING WASHER	4
5	50285592	BRACKET,SEAT BELT(73)	1
6	50285593	BRACKET ASSY,BELT(73)	1
7	138111	WASHER/POLISHED	6
8	50282539	BOLT 10X25 W/PLW+SPW	4
9	50284119	BOLT M10 X 35	2
10	50282597	NUT 10	4

# Z17 - COMPACT EXCAVATOR

## FIG. 58 - HOOD



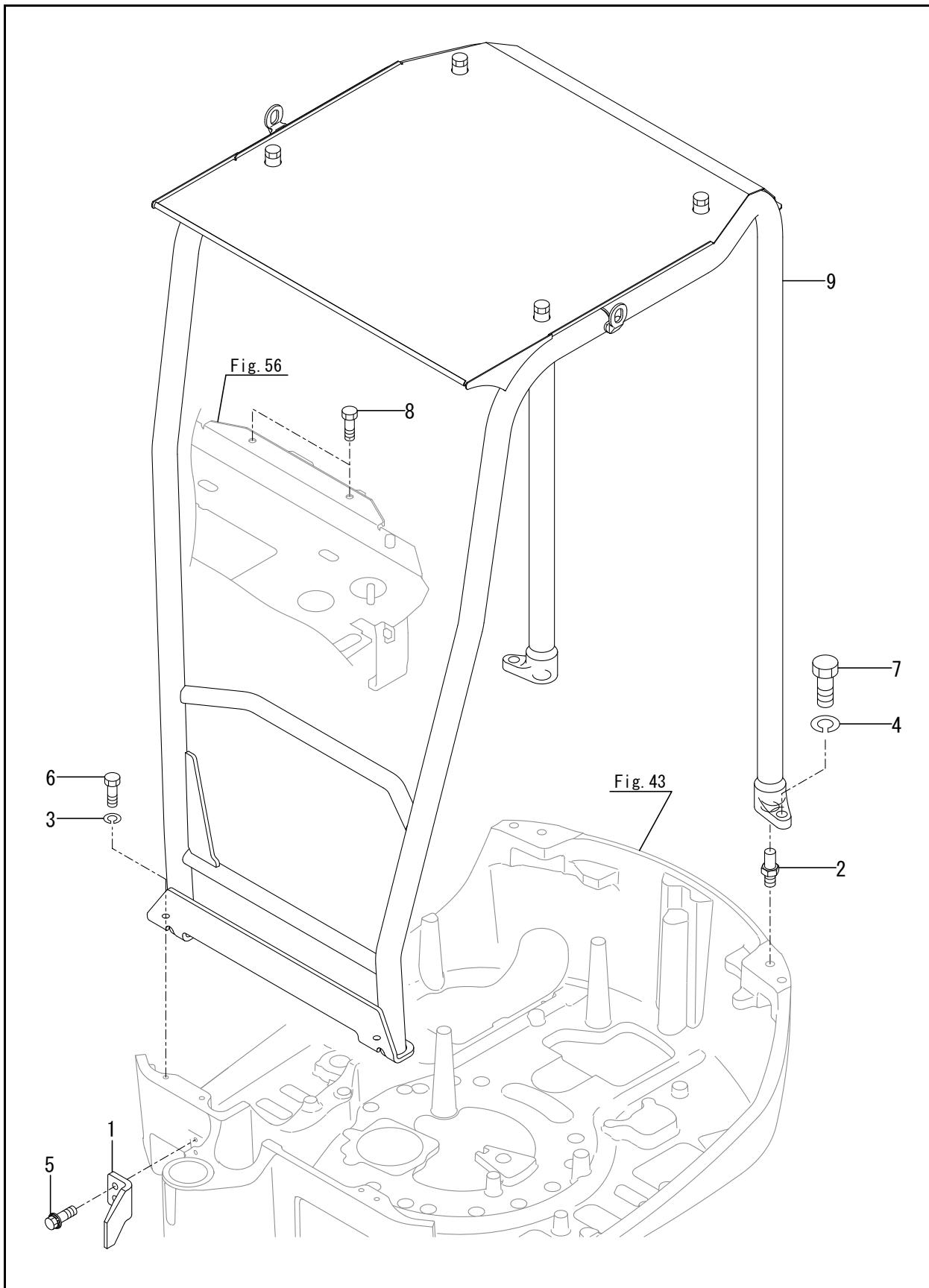
**Z17 - COMPACT EXCAVATOR**  
**FIG. 58 - HOOD**

**Ref.**

No.	Part No.	Description	Qty.
1	50280945	HANDLE, LOCK	1
2	50282361	WASHER	1
3	50285311	ROD,STOPPER	1
4	50286309	HOOD ASSY (use with labels 8A, 8B, 8C, 8D)	1
6	50285601	SEAL,1170	1
7	50285602	EV,BONNET	1
8	50285412	SEAL C, RUBBER	1
8A	50285436	LABEL, SWING AREA US (see Page 4)	1
8B	50281027	LABEL, RADIATOR US (see Page 4)	1
8C	50281028	LABEL, ENG,COVER US (see Page 4)	1
8D	50281425	LABEL, ENG ROOM (see Page 4)	1
9	50285603	PLATE,LOCK	1
10	50285604	MOUNT ASSY,BONNET(73)	1
11	50285605	ROCK ASSY	1
12	50280889	KEY ASSY, CYLINDER	1
17	50282380	WASHER 8, POLISHED	1
18	50282418	COTTER PIN 2.0X20	2
19	50282538	BOLT M10X 20	4
20	50282538	BOLT M10X 20	2
21	50282576	U-NUT M10	1

# Z17 - COMPACT EXCAVATOR

## FIG. 60 - CANOPY



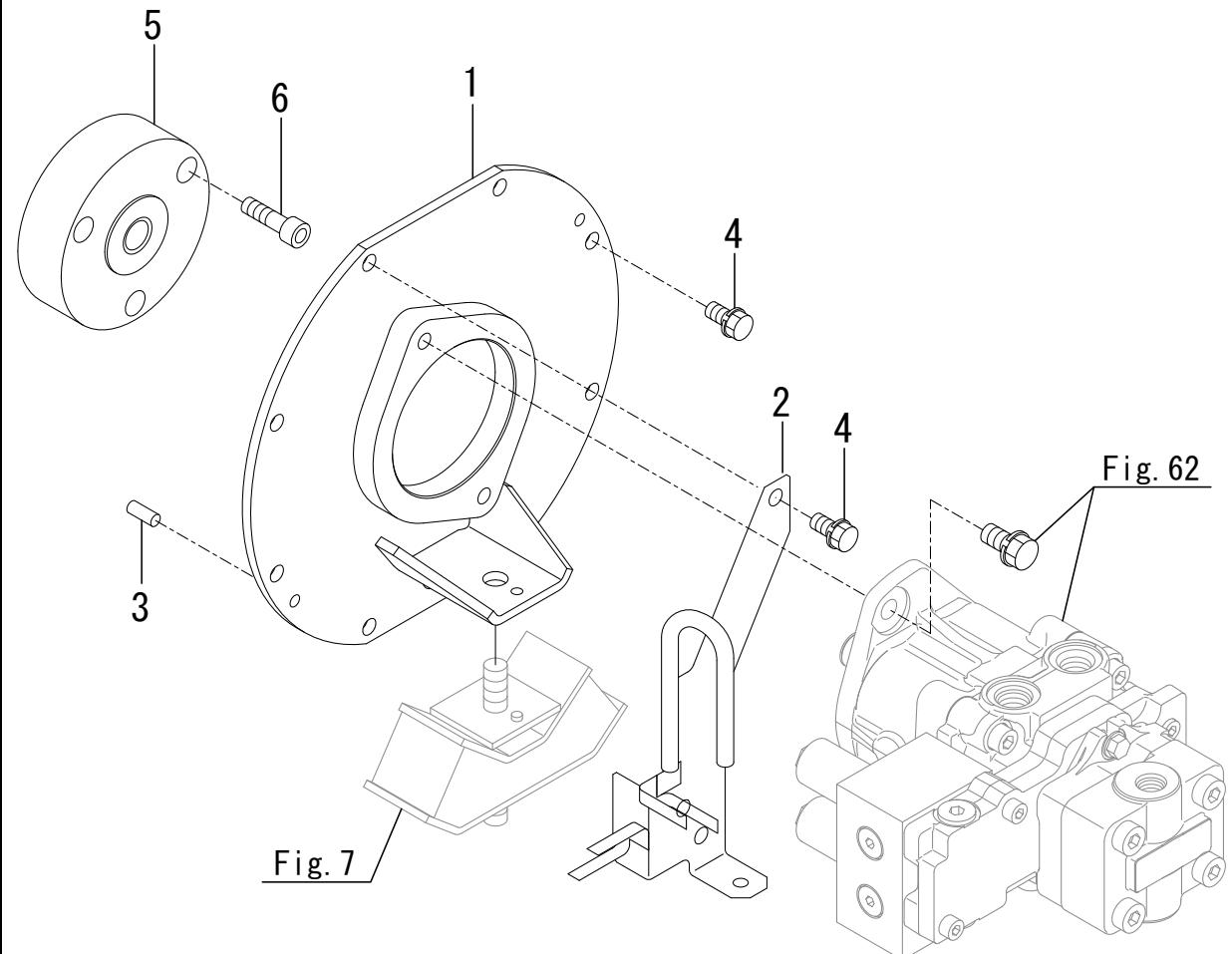
**Z17 - COMPACT EXCAVATOR**  
**FIG. 60 - CANOPY**

Ref.

No.	Part No.	Description	Qty.
1	50285560	STOPPER,BOOM BRACKET	1
2	50285608	JOINT21-M20X28	2
3	425-34902	SPRING WASHER 12	2
4	50282397	WASHER, SPRING 20	2
5	50285904	BOLT M10 X 30	2
6	50282551	BOLT M12X 35	2
7	50285907	BOLT, 20 X 50	2
8	188748	BOLT/M12X25 PLATED	2
9	50285607	ROPS CANOPY ASSY (use with labels 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J)	1
9A	50281019	LABEL, MANUAL US (see Page 4)	1
9B	50281020	LABEL,SLOPE US (see Page 4)	1
9C	50281022	LABEL, TRANSPORT US (see Page 4)	1
9D	50281025	LABEL, NEUTRAL US (see Page 4)	1
9E	50281030	LABEL, STEERING US (see Page 4)	1
9F	50281031	LABEL, ROPS US (see Page 4)	1
9G	50281032	LABEL, SEAT BELT US (see Page 4)	1
9H	50281033	LABEL, LEVER LOCK US (see Page 4)	1
9I	50285438	LABEL, LIFT US (see Page 4)	1
9J	50281037	LABEL, 2-WAY US (see Page 4)	1

# Z17 - COMPACT EXCAVATOR

## FIG. 61 - PUMP MOUNT



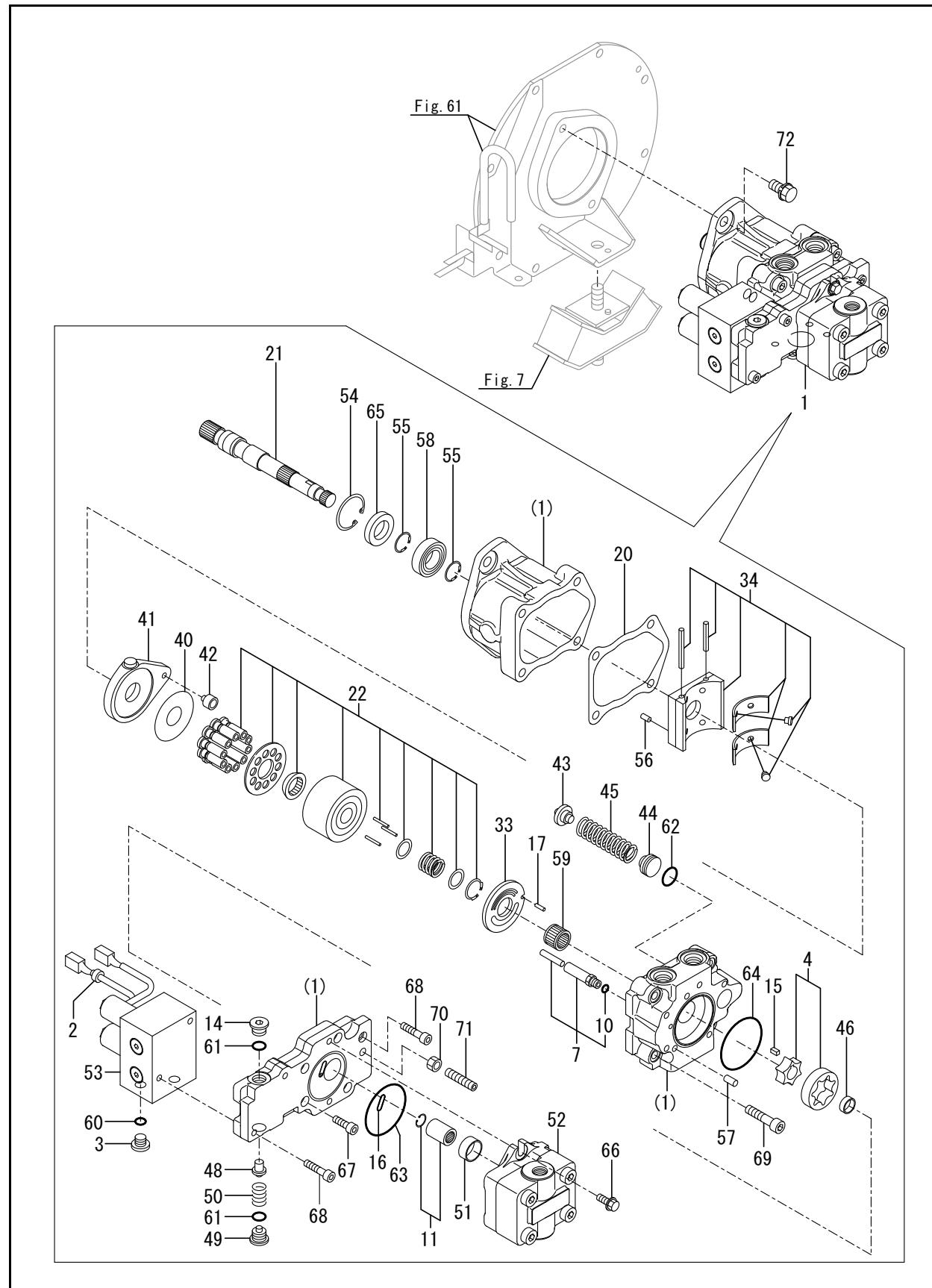
**Z17 - COMPACT EXCAVATOR**  
**FIG. 61 - PUMP MOUNT**

Ref.

No.	Part No.	Description	Qty.
1	50285610	MOUNT ASSY, PUMP	1
2	50285612	GUIDE ASSY, HOSE	1
3	50285881	PARALLEL PIN 8X20	2
4	50282516	BOLT W/WASHER M10X25	8
5	50285346	COUPLING	1
6	50285920	BOLT M10 X 35	3

# Z17 - COMPACT EXCAVATOR

## FIG. 62 - HYD. OIL PUMP

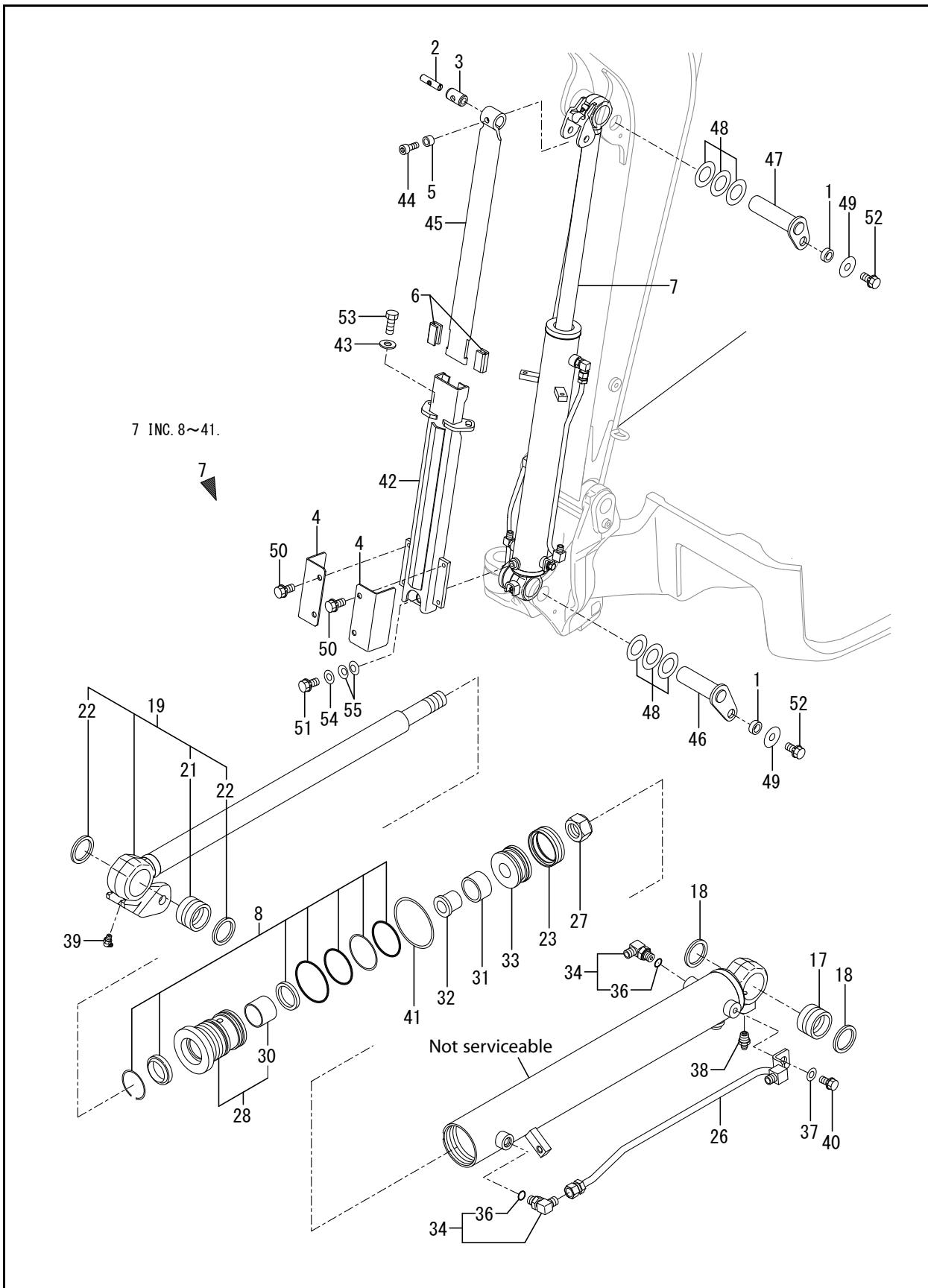


**Z17 - COMPACT EXCAVATOR**  
**FIG. 62 - HYD. OIL PUMP**

Ref.	No.	Part No.	Description	Qty.	Ref.	No.	Part No.	Description	Qty.
	1	50285610	MOUNT ASSY, PUMP	1		72	50284102	BOLT M12 X 35	2
	2	50286599	BINDER	1					
	3	50285856	PLUG, G1/4	2					
	4	50285873	ROTOR SET 13	1					
	7	50285211	POWER PISTON SET	1					
	10	50282468	O-RING 1B P-8.0	1					
	11	50285212	COUPLING SET	1					
	14	50285871	PLUG	1					
	15	50285216	KEY, 8X3.2	1					
	16	50285867	O-RING 1A S-14.0	4					
	17	50285207	PIN,PARALLEL(4X14	1					
	20	50285215	PACKING	1					
	21	50285217	SHAFT	1					
	22	50285218	PLUNGER BLOCK CMP	1					
	33	50285219	VALVE PLATE	1					
	34	50285220	CRADLE HOLDER CMP	1					
	40	50285221	THRUST PLATE	1					
	41	50285222	CRADLE (MD-9CA)	1					
	42	50285208	RETAINER	1					
	43	50285209	RETAINER	1					
	44	50285210	RETAINER	1					
	45	50285223	SPRING(CRADLE)	1					
	46	50285224	BUSHING(17X8)	1					
	48	50285226	RELIEF VALVE	1					
	49	50285227	PLUG (RELIEF VALVE)	1					
	50	50285228	SPRING(RELIEF VALVE)	1					
	51	50285229	COLLAR (GEAR PUMP)	1					
	52	50286460	GEAR PUMP ASSY.	1					
	53	50285231	SOLENOID VALVE ASSY	1					
	54	50285878	CIRCLIP 42	1					
	55	50285879	CIRCLIP 25	2					
	56	50285880	PARALLEL PIN 6X12	3					
	57	138116	PIN/PARALLEL	2					
	58	50285886	BALL BEARING 6005	1					
	59	50285887	NEEDLE BEARING	1					
	60	50282470	O-RING 1B P-11.0	2					
	61	50282471	O-RING 1B P-14.0	2					
	62	50284079	O-RING 1B P-22.0	1					
	63	50285897	O-RING 1A S-63.0	1					
	64	50285898	O-RING 1A S-67.0	1					
	65	50285899	SEAL TC25 42 08, OIL	1					
	66	425-34746	BOLT M8 X 20 PLATED	2					
	67	50284134	BOLT M8 X 25	4					
	68	50285918	BOLT M8 X 35	3					
	69	197816	BOLT M10X45	4					
	70	50282597	NUT 10	1					
	71	50285926	SCREW, 10 X 45	1					

# Z17 - COMPACT EXCAVATOR

## FIG. 63 - BOOM CYLINDER



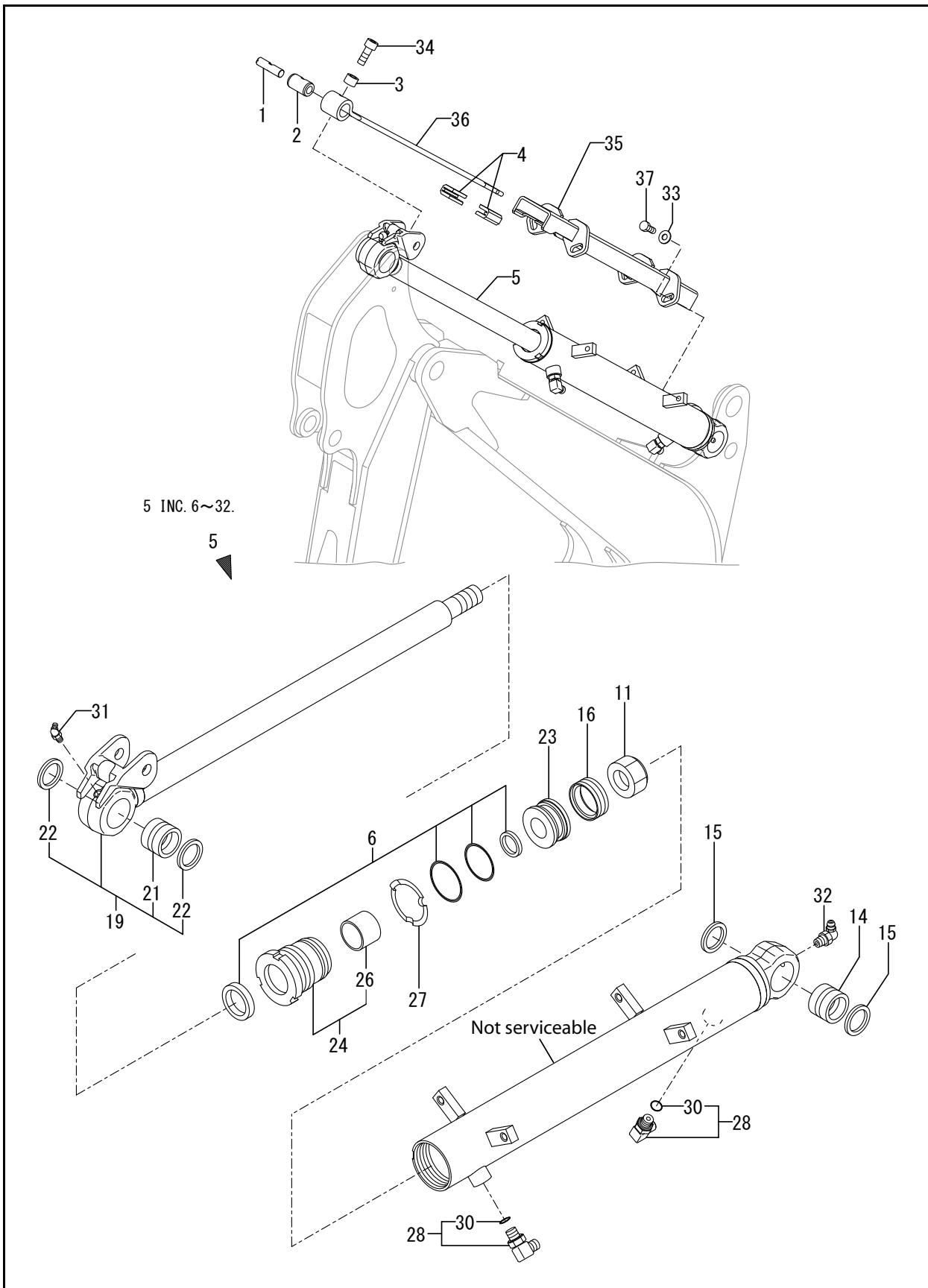
**Z17 - COMPACT EXCAVATOR**  
**FIG. 63 - BOOM CYLINDER**

Ref.

No.	Part No.	Description	Qty.
1	50285232	SPACER	2
2	50283319	SHAFT,14X54	1
3	50283320	GROMMET	1
4	50285617	CYLINDER COVER	2
5	50283344	SPACER	1
6	50283321	SLIDE GUIDE	2
7	50285618	BOOM CYLINDER CMP	1
8	50285614	SEAL SET, HEAD 60 35	1
17	50285621	BUSH,35-45-30	1
18	50285353	SEAL 35X45X4,DUST	2
19	50285620	ROD ASSY,BOOM	1
21	50285621	BUSH,35-45-30	1
22	50285353	SEAL 35X45X4,DUST	2
23	50285410	SEAL SET	1
26	50285622	TUBE ASSY, BOOM	1
27	50285623	U-NUT M24X1.5	1
28	50285259	HEAD 6035 COMPL.	1
30	50285901	BUSHING 35X30	1
31	50285347	PLUNGER, CUSHION 41	1
32	50285363	COLLAR 41	1
33	50285416	PISTON 60,24-28	1
34	50280813	CONNECTOR ASSY, 02FF	2
36	50282607	PACKING, 11.0	2
37	138111	WASHER/POLISHED	1
38	50282497	NIPPLE PT1/8,GREASE	1
39	50282498	NIPPLE B,GREASE	1
40	50282515	BOLT W/WASHER M10X20	1
41	50285930	WASHER 60 B, LOCK	1
42	50285625	GUIDE ASSY	1
43	50283985	COLLOR	2
44	50283655	BOLT M16X16	1
45	50285418	SLIDE PLATE	1
46	50285839	PIN ASSY, 35X110	1
47	50285844	PIN ASSY,35X127	1
48	50282733	SHIM 35	2
49	50282387	WASHER 10	2
50	50282514	BOLT M10X 16	4
51	50282515	BOLT W/WASHER M10X20	1
52	50282516	BOLT W/WASHER M10X25	2
53	50284106	BOLT M10 X 25	2
54	50282617	WASHER, BRAKE ARM	1
55	50282620	SPRING 16	2

# Z17 - COMPACT EXCAVATOR

## FIG. 64 - ARM CYLINDER

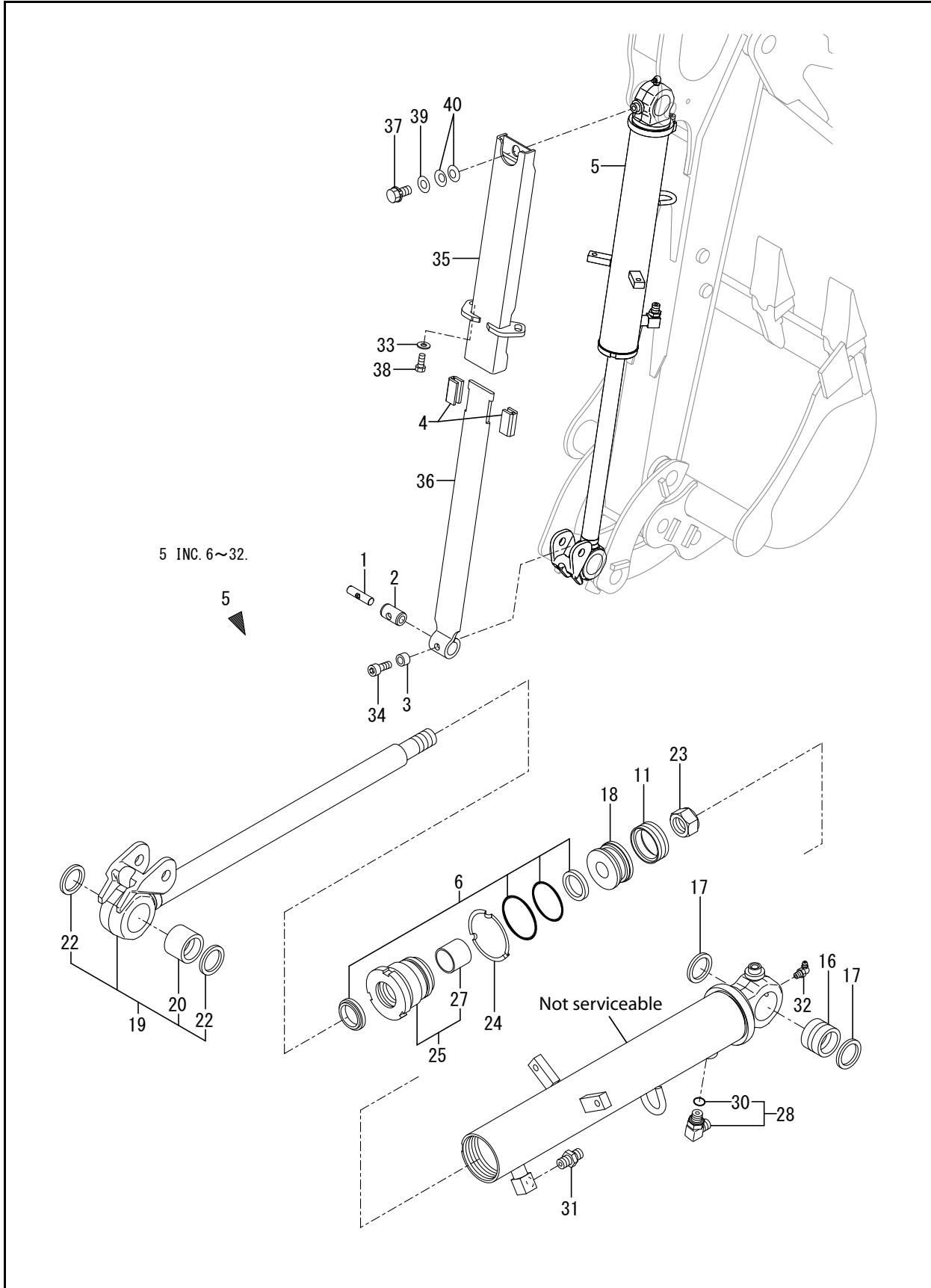


**Z17 - COMPACT EXCAVATOR**  
**FIG. 64 - ARM CYLINDER**

Ref.

No.	Part No.	Description	Qty.
1	50283319	SHAFT,14X54	1
2	50283320	GROMMET	1
3	50283344	SPACER	1
4	50283321	SLIDE GUIDE	2
5	50285626	CYLINDER ARM ASSY	1
6	50285360	SEAL SET, HEAD 55-35	1
11	50280811	U-NUT M27	1
14	50285260	BUSHING A 30X30,PIN	1
15	50285352	SEAL 30X40X4,DUST	2
16	50285362	GASKET RGU55 ASSSY	1
19	50285628	ROD ASSY,ARM	1
21	50285260	BUSHING A 30X30,PIN	1
22	50285352	SEAL 30X40X4,DUST	2
23	50285629	PISTON,55X27X28	1
24	50285364	HEAD CMP B,55-35	1
26	50285901	BUSHING 35X30	1
27	50285285	ROCK WASHER 55	1
28	50280813	CONNECTOR ASSY, 02FF	2
30	50282607	PACKING, 11.0	2
31	50282498	NIPPLE B,GREASE	1
32	50282499	NIPPLE C,GREASE	1
33	50283985	COLLOR	4
34	50283655	BOLT M16X16	1
35	50285650	GUIDE ASSY, 500	1
36	50285653	SLIDE PLATE	1
37	50284106	BOLT M10 X 25	4

**Z17 - COMPACT EXCAVATOR**  
**FIG. 65 - BUCKET CYLINDER**



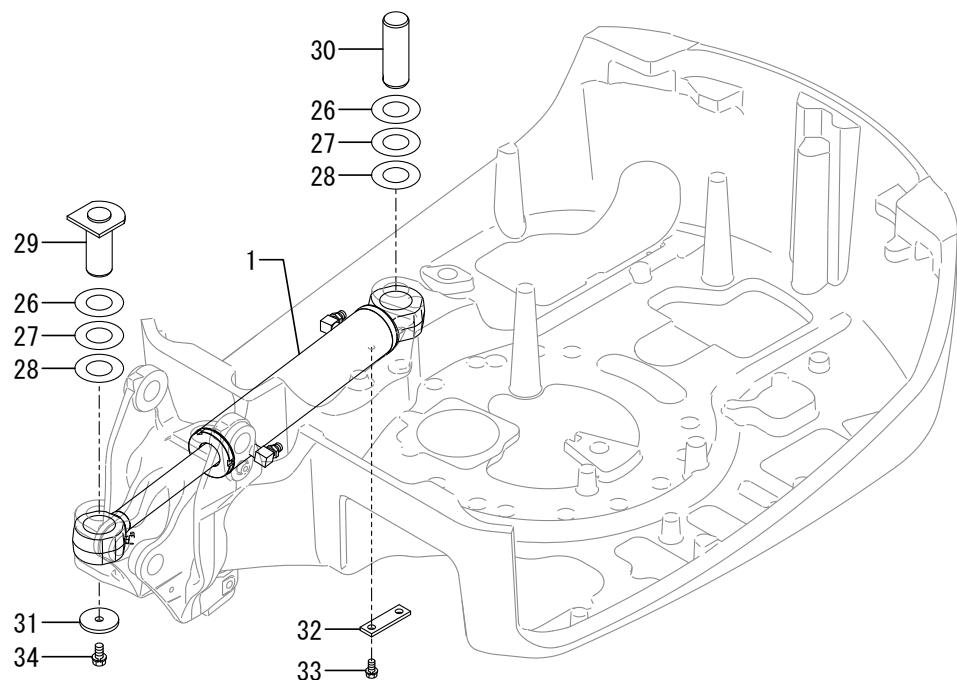
**Z17 - COMPACT EXCAVATOR**  
**FIG. 65 - BUCKET CYLINDER**

Ref.

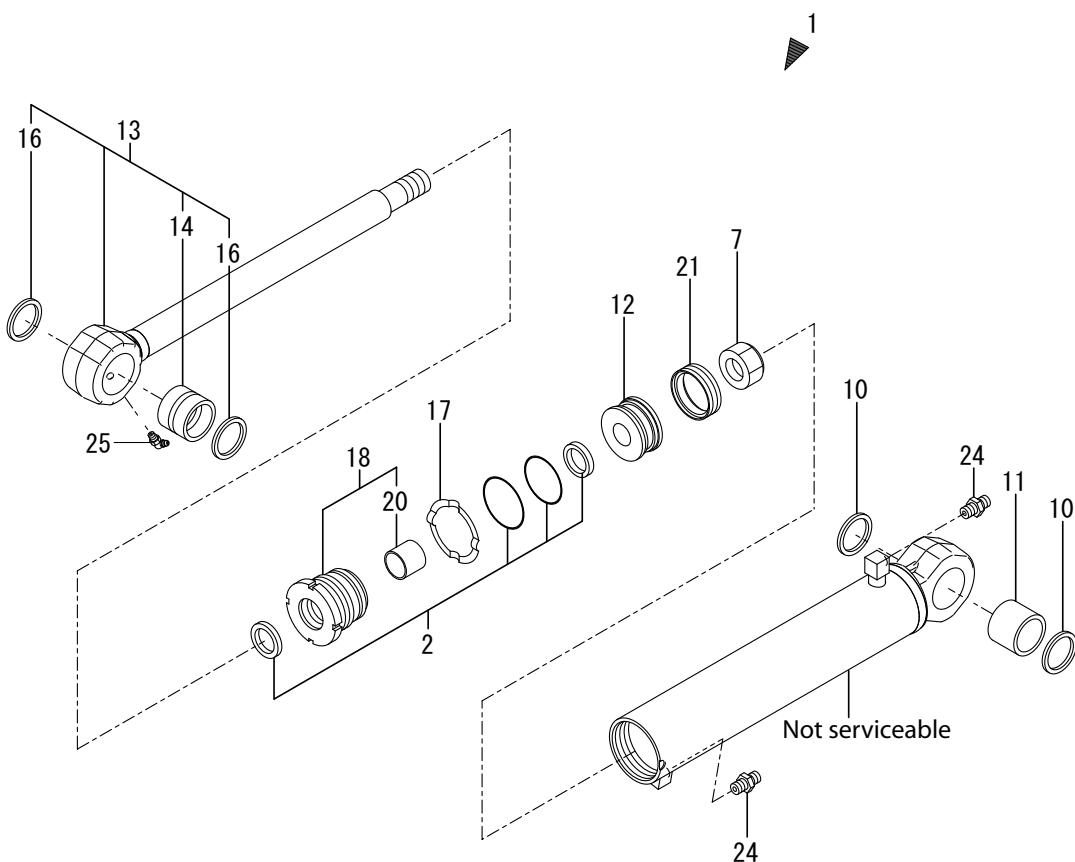
No.	Part No.	Description	Qty.
1	50283319	SHAFT,14X54	1
2	50283320	GROMMET	1
3	50283344	SPACER	1
4	50283321	SLIDE GUIDE	2
5	50285630	BUCKET CYLINDER	1
6	50285615	SEAL SET,HEAD 55 30	1
11	50285362	GASKET RGU55 ASSSY	1
16	50285260	BUSHING A 30X30,PIN	1
17	50285352	SEAL 30X40X4,DUST	2
18	50285632	PISTON,55X22X28	1
19	50285633	ROD ASSY,BUCKET	1
20	50285260	BUSHING A 30X30,PIN	1
22	50285352	SEAL 30X40X4,DUST	2
23	50285634	U-NUT M22X1.5	1
24	50285285	ROCK WASHER 55	1
25	50285365	HEAD CMP 55 30	1
27	50285900	BUSHING 30X30	1
28	50280813	CONNECTOR ASSY, 02FF	1
30	50282607	PACKING, 11.0	1
31	50282438	JOINT RGI1/4	1
32	50282499	NIPPLE C,GREASE	1
33	50283985	COLLAR	2
34	50283655	BOLT M16X16	1
35	50285652	GUIDE ASSY, 445	1
36	50285653	SLIDE PLATE	1
37	50282515	BOLT W/WASHER M10X20	1
38	50284106	BOLT M10 X 25	2
39	50282617	WASHER, BRAKE ARM	1
40	50282620	SPRING 16	2

# Z17 - COMPACT EXCAVATOR

## FIG. 66 - SWING CYLINDER



1 INC. 2~25.



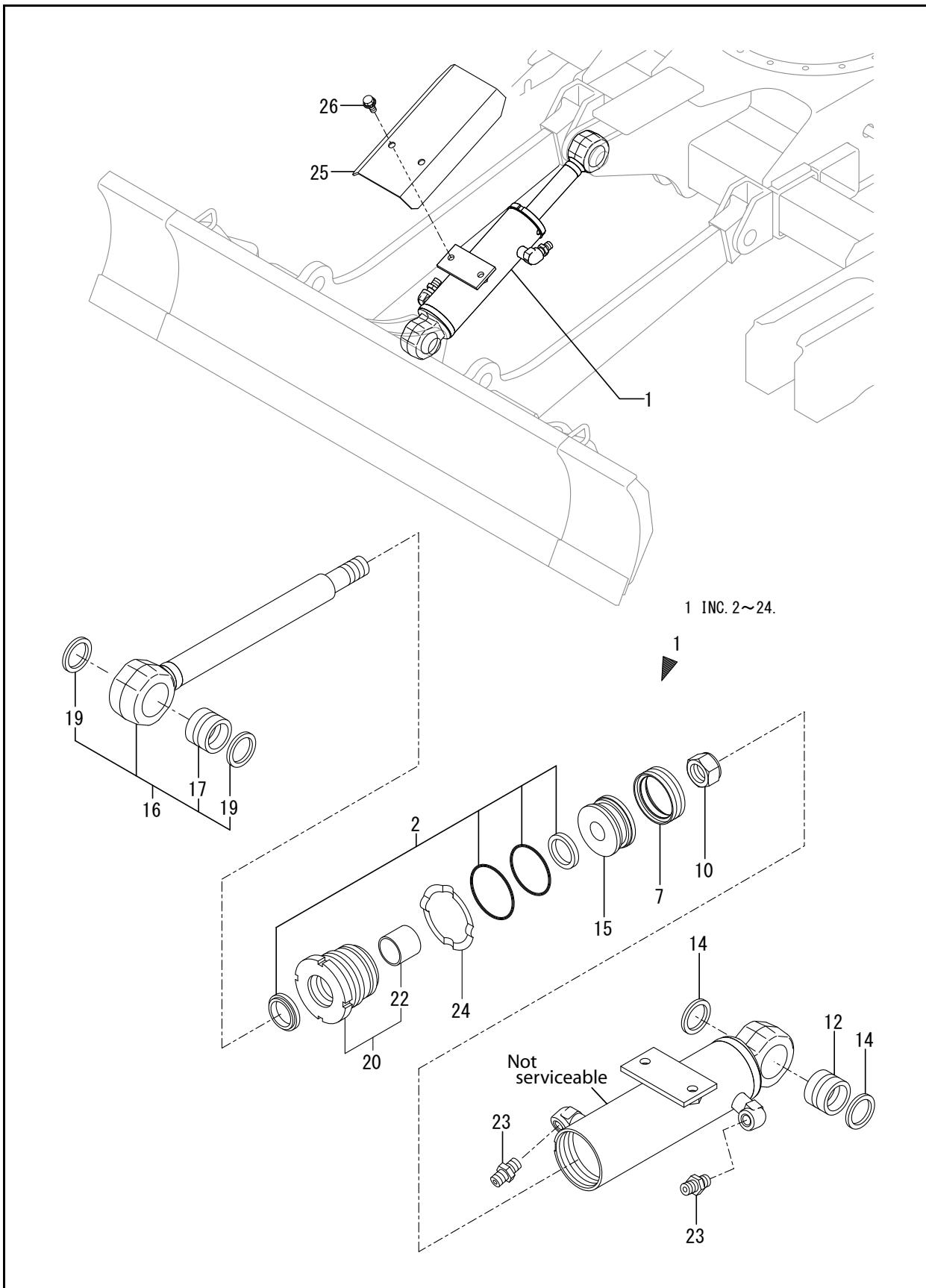
**Z17 - COMPACT EXCAVATOR**  
**FIG. 66 - SWING CYLINDER**

Ref.

No.	Part No.	Description	Qty.
1	50285635	SWING CYLINDER ASSY	1
2	50285361	SEAL SET, HEAD 65-35	1
7	50280811	U-NUT M27	1
10	50282912	SEAL 40X50X4,DUST	2
11	50283048	BUSHING 40X40,SO	1
12	50285637	PISTON,65X27X31	1
13	50285638	ROD ASSY,SWING	1
14	50284227	BUSHING 40X50X40	1
16	50282912	SEAL 40X50X4,DUST	2
17	50285252	WASHER 65, LOCK	1
18	50285366	HEAD CMP 65-35	1
20	50285901	BUSHING 35X30	1
21	50285367	GASKET RGU 65	1
24	50282438	JOINT RGI1/4	2
25	50282499	NIPPLE C,GREASE	1
26	50282812	SHIM 40X75X0.5	2
27	50282813	SHIM 40X75X1.2	2
28	50282814	SHIM 40X75X1.6	2
29	50285841	PIN ASSY, 40X96	1
30	50285842	PIN, 40X120	1
31	50282739	SPACER	1
32	50282694	LOCK PLATE	1
33	50282515	BOLT W/WASHER M10X20	2
34	50284101	BOLT M12 X 25	1

# Z17 - COMPACT EXCAVATOR

## FIG. 67 - BLADE CYLINDER



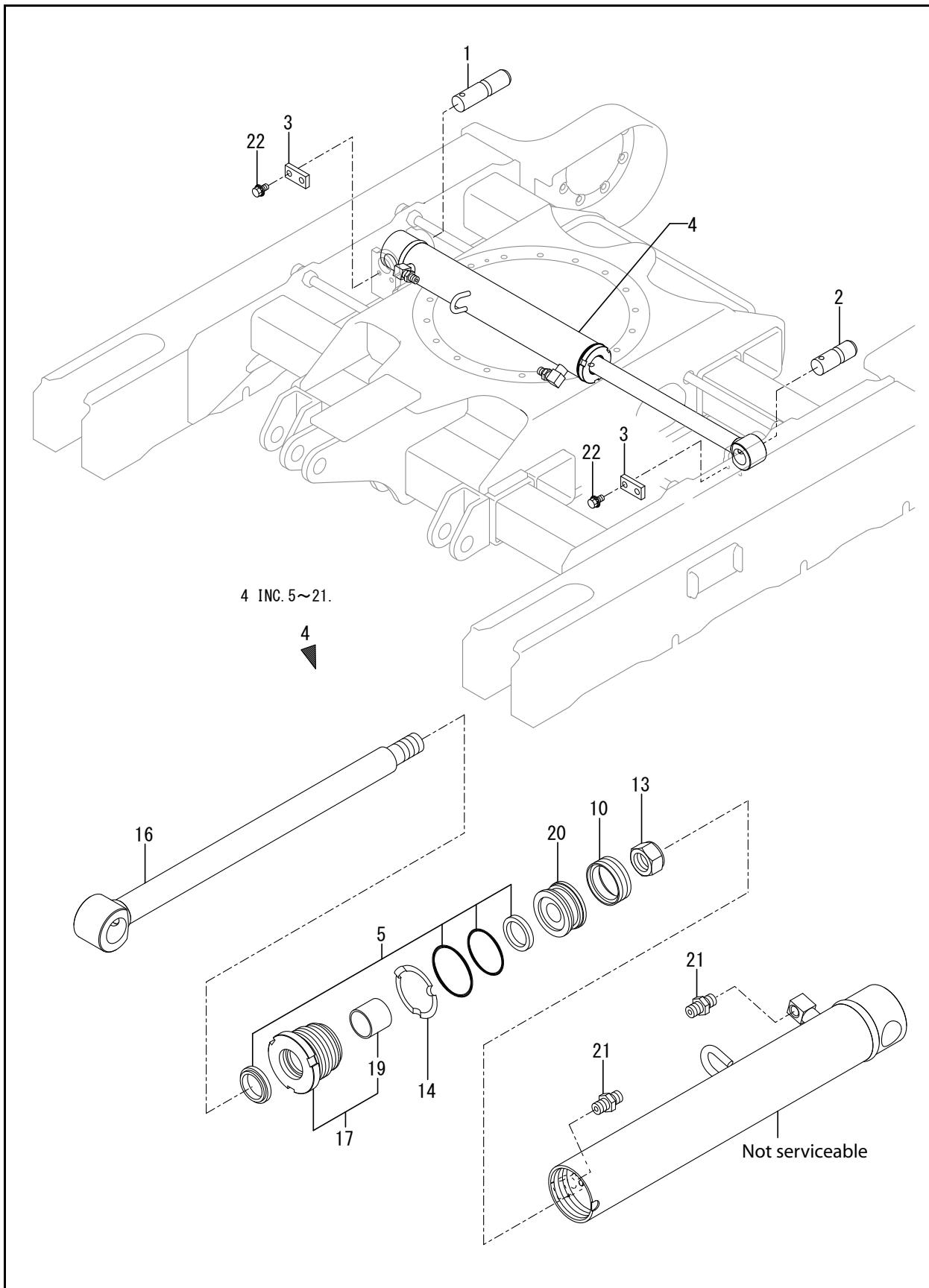
**Z17 - COMPACT EXCAVATOR**  
**FIG. 67 - BLADE CYLINDER**

Ref.

No.	Part No.	Description	Qty.
1	50285639	BLADE CYLINDER	1
2	50285613	SEAL SET,HEAD 60 30	1
7	50285410	SEAL SET	1
10	50285634	U-NUT M22X1.5	1
12	50285260	BUSHING A 30X30,PIN	1
14	50285352	SEAL 30X40X4,DUST	2
15	50285641	PISTON,60X22X28	1
16	50285642	ROD ASSY,BLADE	1
17	50285260	BUSHING A 30X30,PIN	1
19	50285352	SEAL 30X40X4,DUST	2
20	50285324	HEAD 60 30	1
22	50285900	BUSHING 30X30	1
23	50282438	JOINT RGI1/4	2
24	50285930	WASHER 60 B, LOCK	1
25	50285643	PROTECTOR	1
26	50282539	BOLT 10X25 W/PLW+SPW	2

# Z17 - COMPACT EXCAVATOR

## FIG. 68 - VARIABLE LEG WIDEN/SHORTEN CYLINDER



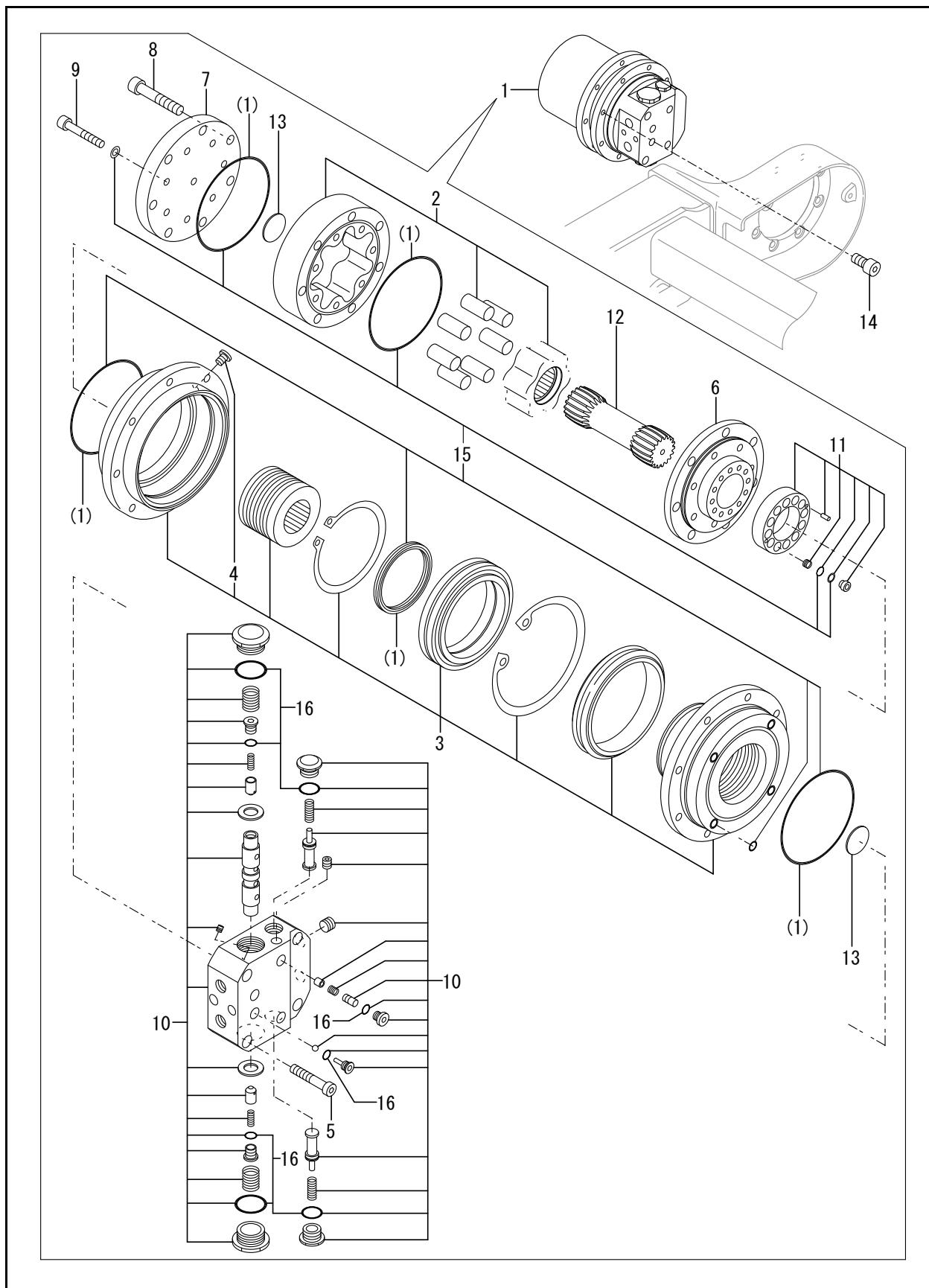
**Z17 - COMPACT EXCAVATOR**  
**FIG. 68 - VARIABLE LEG WIDEN/SHORTEN CYLINDER**

Ref.

No.	Part No.	Description	Qty.
1	50285547	PIN 30X95	1
2	50285548	PIN 30X65	1
3	50285549	LOCK PLATE	2
4	50285644	VARIABLE CYLINDER ASSY	1
5	50285615	SEAL SET,HEAD 55 30	1
10	50285362	GASKET RGU55 ASSSY	1
13	50285634	U-NUT M22X1.5	1
14	50285285	ROCK WASHER 55	1
16	50285646	ROD,ASSY,VARIABLE	1
17	50285647	HEAD ASSY, 55 30	1
19	50285900	BUSHING 30X30	1
20	50285648	PISTON,55	1
21	50282438	JOINT RGI1/4	2
22	50282539	BOLT 10X25 W/PLW+SPW	4

# Z17 - COMPACT EXCAVATOR

## FIG. 69 - TRAVEL MOTOR

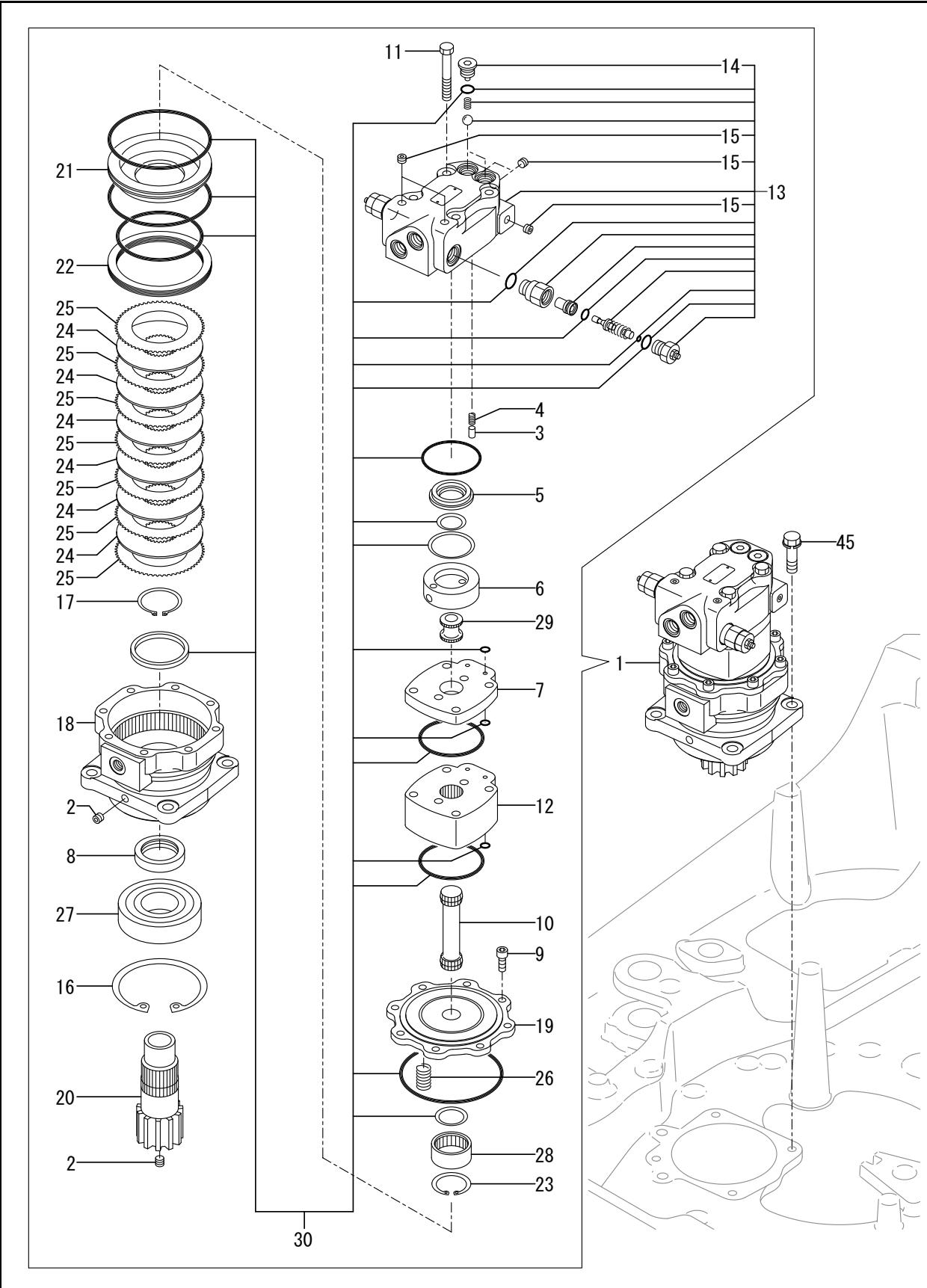


**Z17 - COMPACT EXCAVATOR**  
**FIG. 69 - TRAVEL MOTOR**

Ref.

No.	Part No.	Description	Qty.
1	50285655	MOTOR ASSY, TRAVEL	2
2	50285657	GEROLLER ASSY	2
3	50285658	SPINDLE WHEEL ASSY	2
4	50285665	PLUG	2
5	50285277	BOLT	8
6	50285659	PLATE,VALVE	2
7	50285660	COVER,ROLLER	2
8	50285661	BOLT,10X80	14
9	50285662	BOLT,8X73	14
10	50285663	COVER,END ASSY	2
11	50285664	VALVE ASSY	2
12	50285666	DRIVE	2
13	50285667	SPACER	4
14	50285919	BOLT M10 X 25	16
15	50285668	SEAL KIT,TRAVEL M	1
16	50285669	SEAL KIT,END COVER	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 70 - TURNING MOTOR**



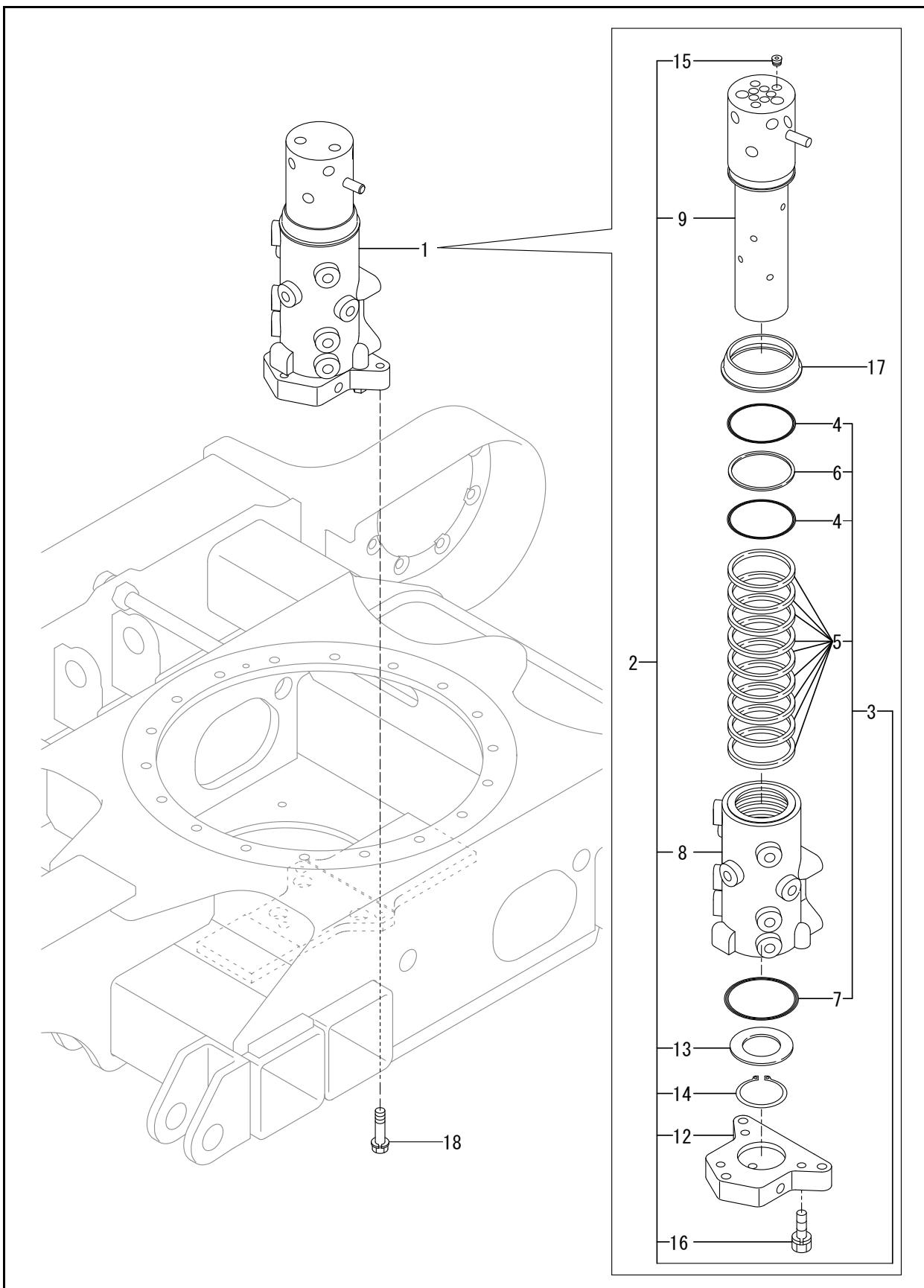
**Z17 - COMPACT EXCAVATOR**  
**FIG. 70 - TURNING MOTOR**

Ref.

No.	Part No.	Description	Qty.
1	50285656	MOTOR ASSY, REVOLVE	1
2	50285240	PLUG	2
3	50285241	PIN	2
4	50285242	SPRING	2
5	50285243	PLATE	1
6	50285244	VALVE	1
7	50285255	PLATE, VALVE	1
8	50285286	COLLAR	1
9	50285670	BOLT,8X20	8
10	50285671	DRIVE	1
11	50285672	BOLT	4
12	50285673	ROLLER	1
13	50285674	HOUSING, VALVE ASSY	1
14	50285278	PLUG	2
15	50282447	PLUG PT1/8,SCREW	3
16	50285287	SNAP RING	1
17	50285288	SNAP RING	1
18	50285375	HOUSING, BEARING	1
19	50285376	FLANGE, MOUTING	1
20	50285377	GEAR, PINION	1
21	50285378	PISTON, HYDRAULIC	1
22	50285379	RING	1
23	50285380	CIRCLIP	1
24	50285381	PLATE,FRICITION	6
25	50285382	PLATE	7
26	50285383	SPRING	8
27	50285384	FRONT BEARING	1
28	50285385	NEEDLE BEARING	1
29	50285250	VALVE DRIVE	1
30	50285675	SEAL KIT,TURN.MOTOR	1
45	50282526	BOLT M12X 40	4

# Z17 - COMPACT EXCAVATOR

## FIG. 71 - SWIVEL JOINT

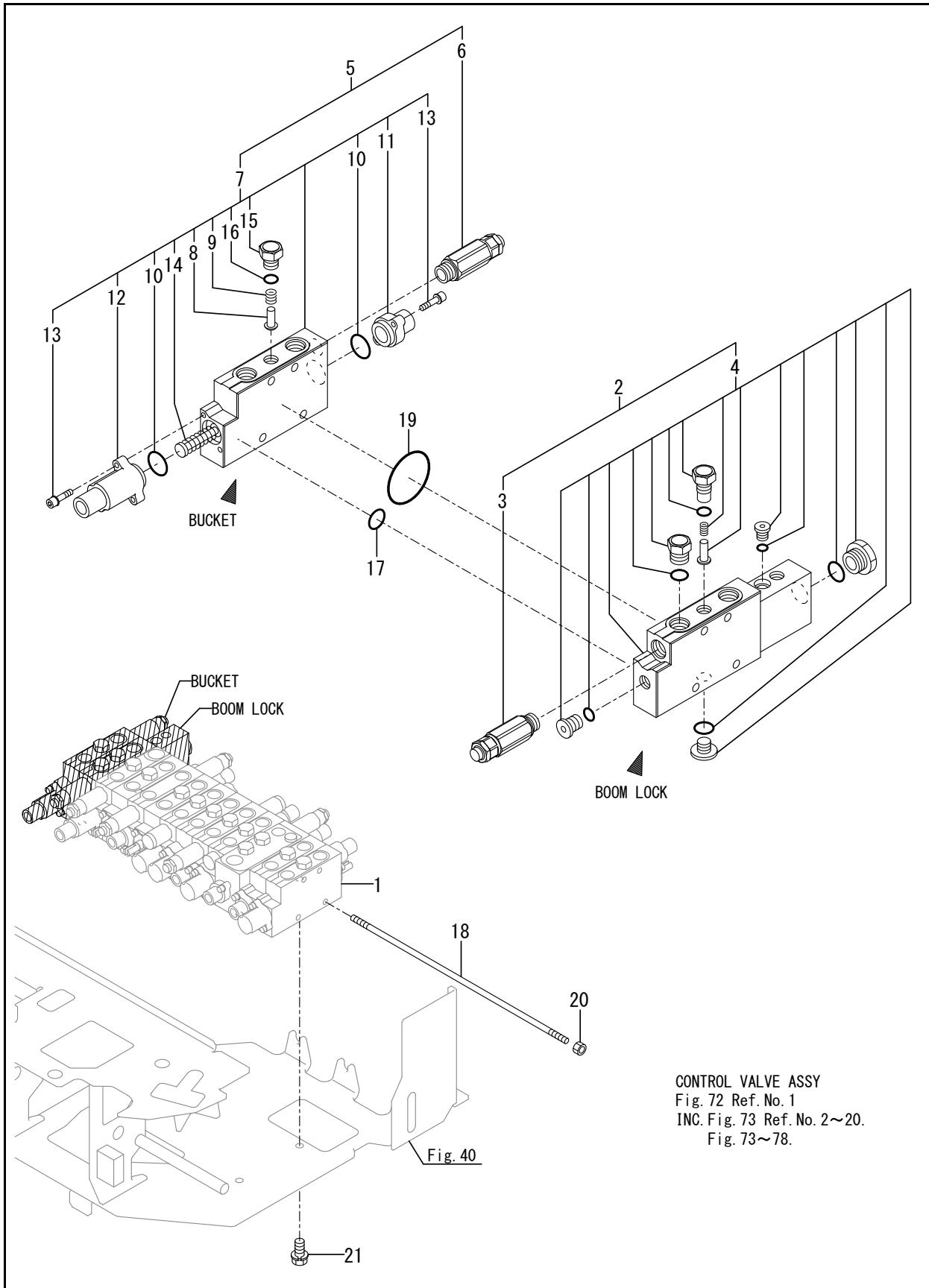


**Z17 - COMPACT EXCAVATOR**  
**FIG. 71 - SWIVEL JOINT**

Ref.

No.	Part No.	Description	Qty.
1	50285348	SWIVEL ASSY	1
2	50285349	SWIVEL,ASSY	1
3	50285317	SEAL SET,SWIVEL	1
4	50282735	O-RING 55.76X5.7	2
5	50282908	SEAL	9
6	50282755	RING EL, BACK UP	1
7	186610	O-RING 1A G70.0 NBR	1
8	50285350	HUB,SWIVEL	1
9	50285315	SHAFT ASSY, SWIVEL	1
12	50285316	FLANGE,SWIVEL	1
13	50285273	SPACER, SWIVEL	1
14	50285876	CIRCLIP 40-S	1
15	50282447	PLUG PT1/8,SCREW	8
16	50285902	BOLT M8 X 35	3
17	50285351	DUST COVER	1
18	50282517	BOLT M10X 30	3

**Z17 - COMPACT EXCAVATOR**  
**FIG. 72 - CONTROL VALVE (1/7)**

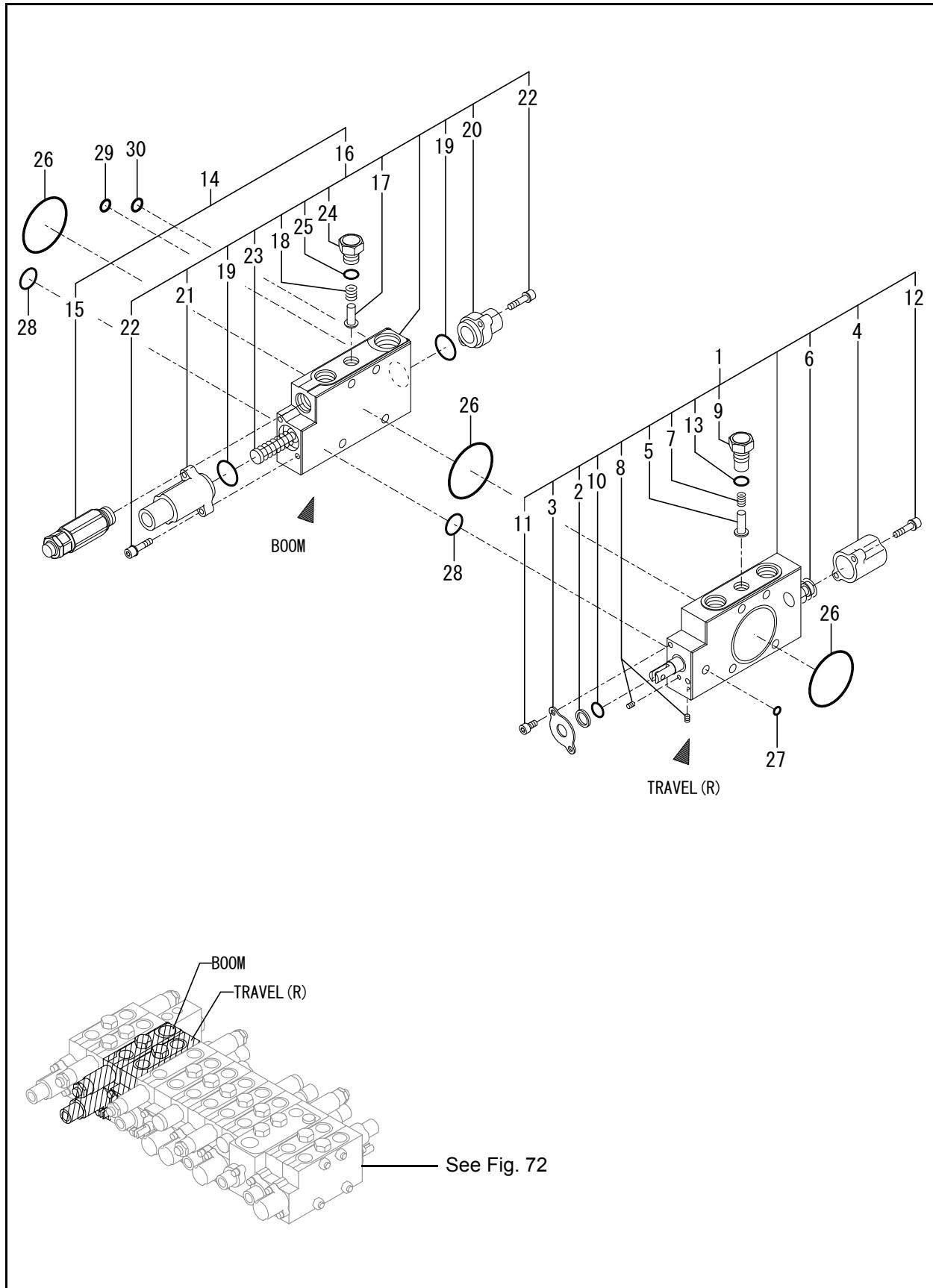


**Z17 - COMPACT EXCAVATOR**  
**FIG. 72 - CONTROL VALVE (1/7)**

Ref.

No.	Part No.	Description	Qty.
1	50285679	VALVE ASSY, CONTROL	1
2	50285709	BOOM LOCK PART	1
3	50284318	OVERLOAD 300/5	1
4	50285710	BOOM LOCK SEC ASSY	1
5	50285711	BUCKET SELECT	1
6	50285373	OVERLOAD 250/5	1
7	50285712	BUCKET SEC ASSY	1
8	50283052	CHECK VALVE	1
9	50283053	SPRING, CHECK VALVE	1
10	50283055	PACKING S 22	2
11	50283056	COVER B1, PILOT	1
12	50283057	COVER A1, PILOT	1
13	50283058	SWP HEX.BOLT 5X20	4
14	50285713	SPOOL ASSY,BUCKET	1
15	50283065	STAY, CHECK VALVE	1
16	50282607	PACKING, 11.0	1
17	50285391	PACKING G 4	1
18	50283729	BOLT L=412	4
19	50285889	O-RING 1A P-18.0	1
20	50282596	NUT M 8	4
21	50282514	BOLT M10X 16	3

**Z17 - COMPACT EXCAVATOR**  
**FIG. 73 - CONTROL VALVE (2/7)**



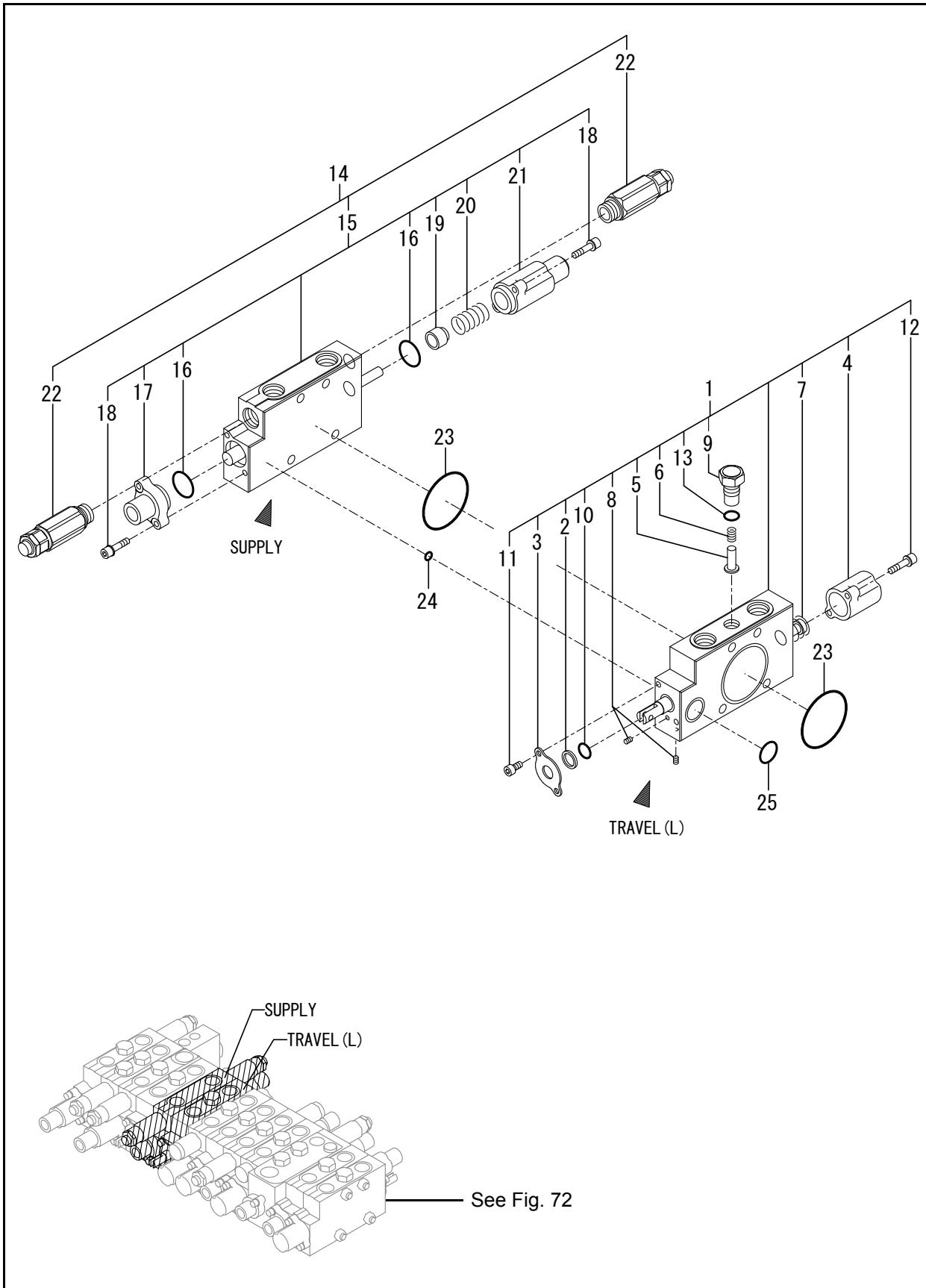
**Z17 - COMPACT EXCAVATOR**  
**FIG. 73 - CONTROL VALVE (2/7)**

Ref.

No.	Part No.	Description	Qty.
1	50285705	TRAVEL R SEC ASSY	1
2	50283050	DUST WIPER	1
3	50283051	BRACKET, OIL SEAL	1
4	50283054	CAP,SPRING	1
5	50283059	CHECK VALVE	1
6	50283060	SPRING, CHECK VALVE	1
7	50285702	SPOOL ASSY,TRAVEL	1
8	50283061	PLUG GPM1/32	2
9	50283066	STAY, CHECK VALVE	1
10	425-34776	O-RING 1A P-12.0	1
11	197813	BOLT M5X10	2
12	50284129	BOLT 5* 18	2
13	50282607	PACKING, 11.0	1
14	50285706	BOOM SELECT	1
15	50285392	VALVE ASSY,OVER LOAD	1
16	50285707	BOOM SEC ASSY	1
17	50283052	CHECK VALVE	1
18	50283053	SPRING, CHECK VALVE	1
19	50283055	PACKING S 22	2
20	50283056	COVER B1, PILOT	1
21	50283057	COVER A1, PILOT	1
22	50283058	SWP HEX.BOLT 5X20	4
23	50285708	SPOOL ASSY,BOOM	1
24	50283065	STAY, CHECK VALVE	1
25	50282607	PACKING, 11.0	1
26	50285391	PACKING G 4	3
27	197795	O-RING 1A P-6.0	1
28	50285889	O-RING 1A P-18.0	2
29	50285892	O-RING 1B P- 9.0	1
30	50282469	O-RING 1B P-10.0	1

# Z17 - COMPACT EXCAVATOR

## FIG. 74 - CONTROL VALVE (3/7)



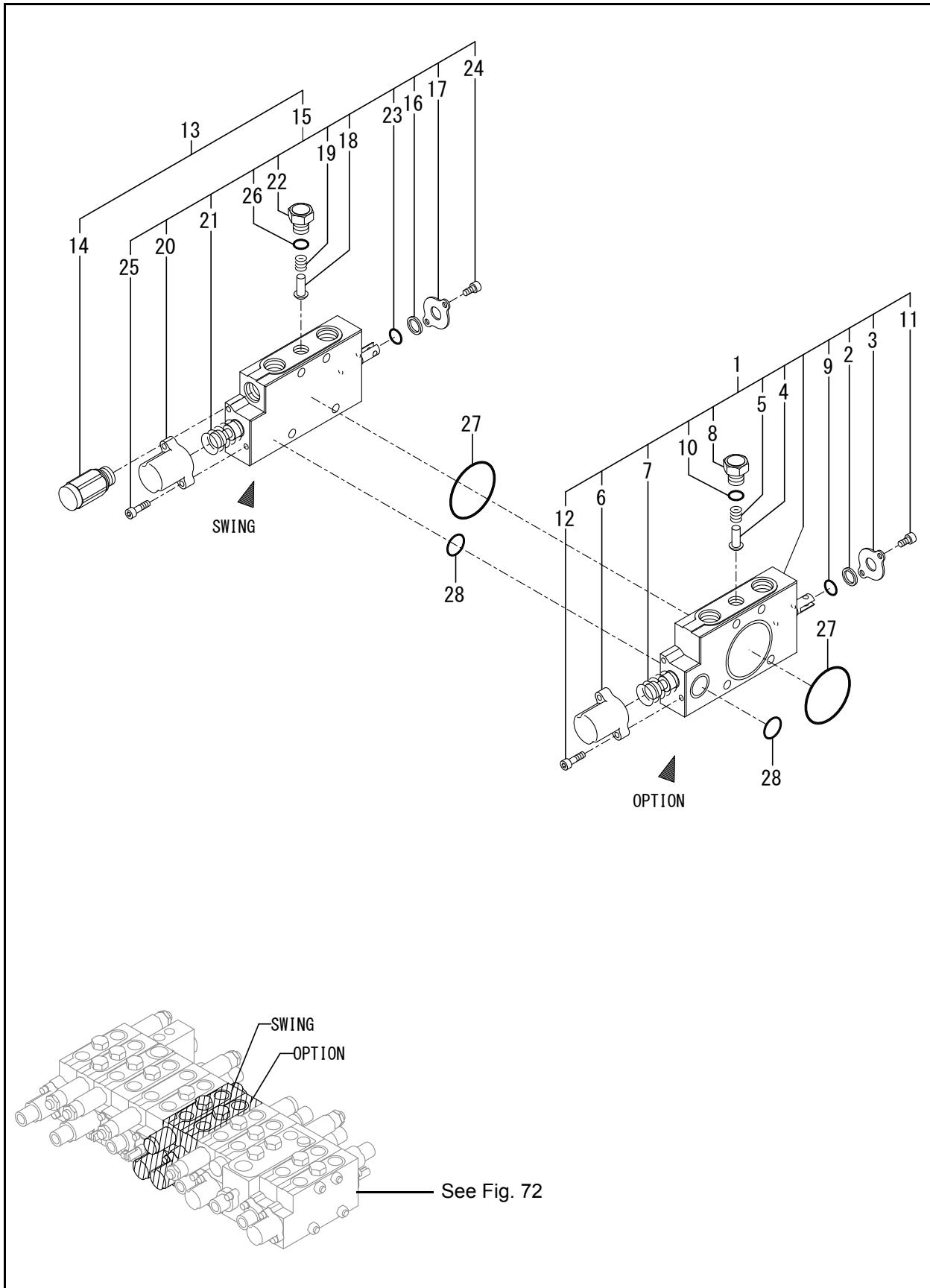
**Z17 - COMPACT EXCAVATOR**  
**FIG. 74 - CONTROL VALVE (3/7)**

Ref.

No.	Part No.	Description	Qty.
1	50285701	TRAVEL L SEC ASSY	1
2	50283050	DUST WIPER	1
3	50283051	BRACKET, OIL SEAL	1
4	50283054	CAP,SPRING	1
5	50283059	CHECK VALVE	1
6	50283060	SPRING, CHECK VALVE	1
7	50285702	SPOOL ASSY,TRAVEL	1
8	50283061	PLUG GPM1/32	2
9	50283066	STAY, CHECK VALVE	1
10	425-34776	O-RING 1A P-12.0	1
11	197813	BOLT M5X10	2
12	50284129	BOLT 5* 18	2
13	50282607	PACKING, 11.0	1
14	50285703	SUPPLY PART	1
15	50285704	SUPPLY SEC ASSY	1
16	50283055	PACKING S 22	2
17	50283056	COVER B1, PILOT	1
18	50283058	SWP HEX.BOLT 5X20	4
19	50283062	SEAT, SPRING	1
20	50283063	SPRING,RETURN	1
21	50283064	COVER A2, PILOT	1
22	50285714	VALVE, RELIEF 210	2
23	50285391	PACKING G 4	2
24	197795	O-RING 1A P-6.0	1
25	50285889	O-RING 1A P-18.0	1

# Z17 - COMPACT EXCAVATOR

## FIG. 75 - CONTROL VALVE (4/7)

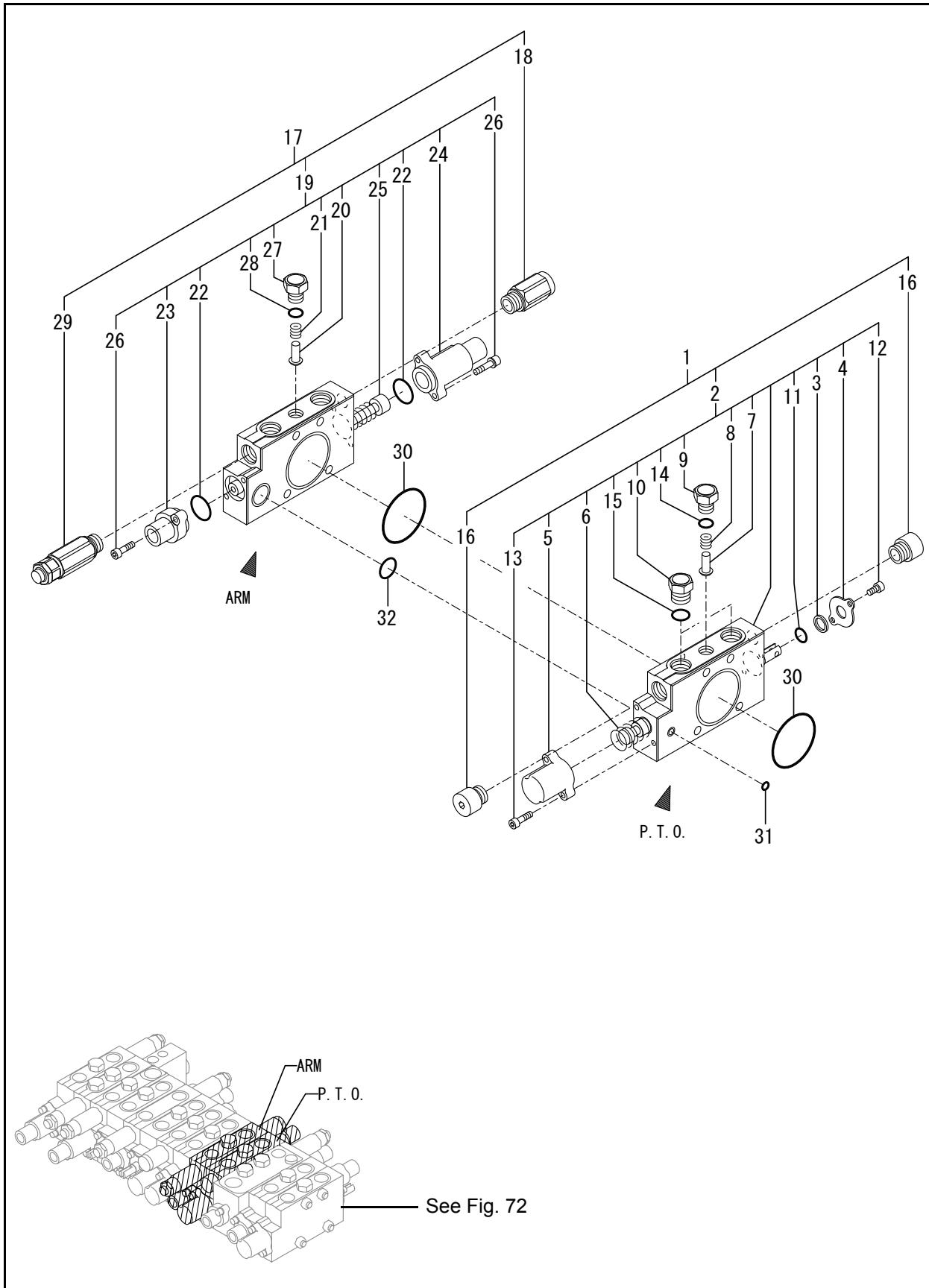


**Z17 - COMPACT EXCAVATOR**  
**FIG. 75 - CONTROL VALVE (4/7)**

**Ref.**

No.	Part No.	Description	Qty.
1	50285694	OPTION SEC ASSY	1
2	50283050	DUST WIPER	1
3	50283051	BRACKET, OIL SEAL	1
4	50283052	CHECK VALVE	1
5	50283053	SPRING, CHECK VALVE	1
6	50283054	CAP, SPRING	1
7	50285695	SPOOL ASSY,OPTION	1
8	50283065	STAY, CHECK VALVE	1
9	425-34776	O-RING 1A P-12.0	1
10	50282607	PACKING, 11.0	1
11	197813	BOLT M5X10	2
12	50284129	BOLT 5* 18	2
13	50285696	SWING SELECT	1
14	50284267	ANTI-CAVITATION	1
15	50285697	SWING SEC ASSY	1
16	50283050	DUST WIPER	1
17	50283051	BRACKET, OIL SEAL	1
18	50283052	CHECK VALVE	1
19	50283053	SPRING, CHECK VALVE	1
20	50283054	CAP, SPRING	1
21	50285698	SPOOL ASSY,SWING	1
22	50283065	STAY, CHECK VALVE	1
23	425-34776	O-RING 1A P-12.0	1
24	197813	BOLT M5X10	2
25	50284129	BOLT 5* 18	2
26	50282607	PACKING, 11.0	1
27	50285391	PACKING G 4	2
28	50285889	O-RING 1A P-18.0	2

**Z17 - COMPACT EXCAVATOR**  
**FIG. 76 - CONTROL VALVE (5/7)**



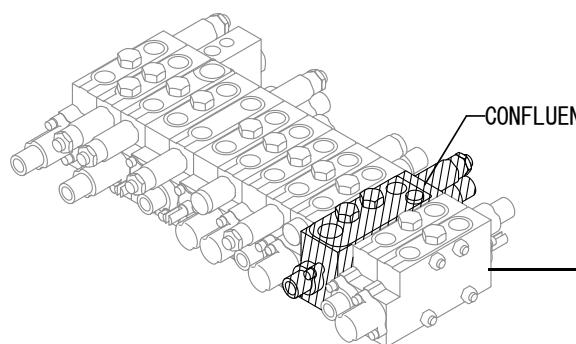
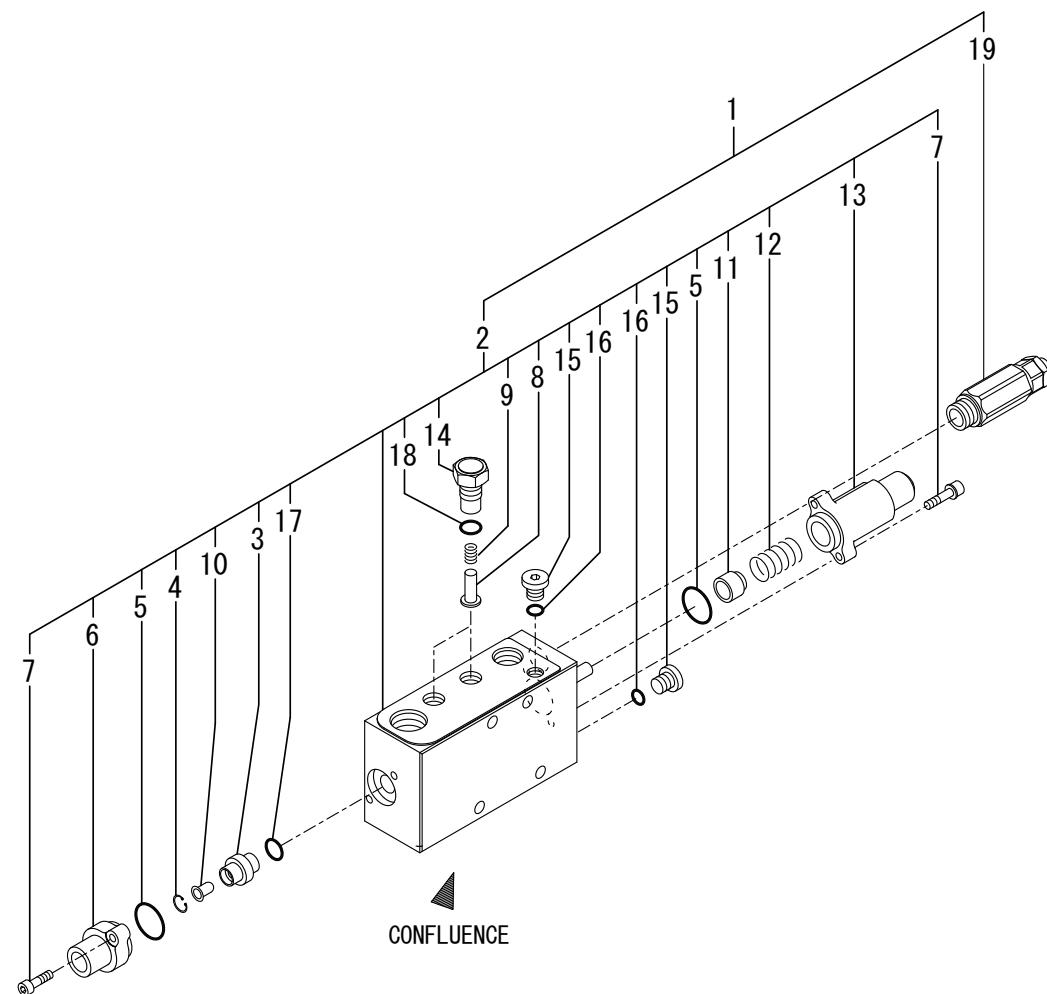
**Z17 - COMPACT EXCAVATOR**  
**FIG. 76 - CONTROL VALVE (5/7)**

Ref.

No.	Part No.	Description	Qty.
1	50285688	PTO SELECT	1
2	50285689	PTO SEC ASSY	1
3	50283050	DUST WIPER	1
4	50283051	BRACKET, OIL SEAL	1
5	50283054	CAP,SPRING	1
6	50285690	SPOOL ASSY,PTO	1
7	50283254	CHECK VALVE	1
8	50283255	SPRING, CHECK VALVE	1
9	50283256	STAY, CHECK VALVE	1
10	50283067	STAY, CHECK VALVE	2
11	425-34776	O-RING 1A P-12.0	1
12	197813	BOLT M5X10	2
13	50284129	BOLT 5* 18	2
14	50282607	PACKING, 11.0	1
15	50282608	O RING P 14.0 HNBR	2
16	50285374	RELIEF VALVE PLUG	2
17	50285691	ARM SELECT	1
18	50284267	ANTI-CAVITATION	1
19	50285692	ARM SEC ASSY	1
20	50283052	CHECK VALVE	1
21	50283053	SPRING, CHECK VALVE	1
22	50283055	PACKING S 22	2
23	50283056	COVER B1, PILOT	1
24	50283057	COVER A1, PILOT	1
25	50285693	SPOOL ASSY,ARM	1
26	50283058	SWP HEX.BOLT 5X20	4
27	50283065	STAY, CHECK VALVE	1
28	50282607	PACKING, 11.0	1
29	50285392	VALVE ASSY,OVER LOAD	1
30	50285391	PACKING G 4	2
31	197795	O-RING 1A P-6.0	1
32	50285889	O-RING 1A P-18.0	1

# Z17 - COMPACT EXCAVATOR

## FIG. 77 - CONTROL VALVE (6/7)



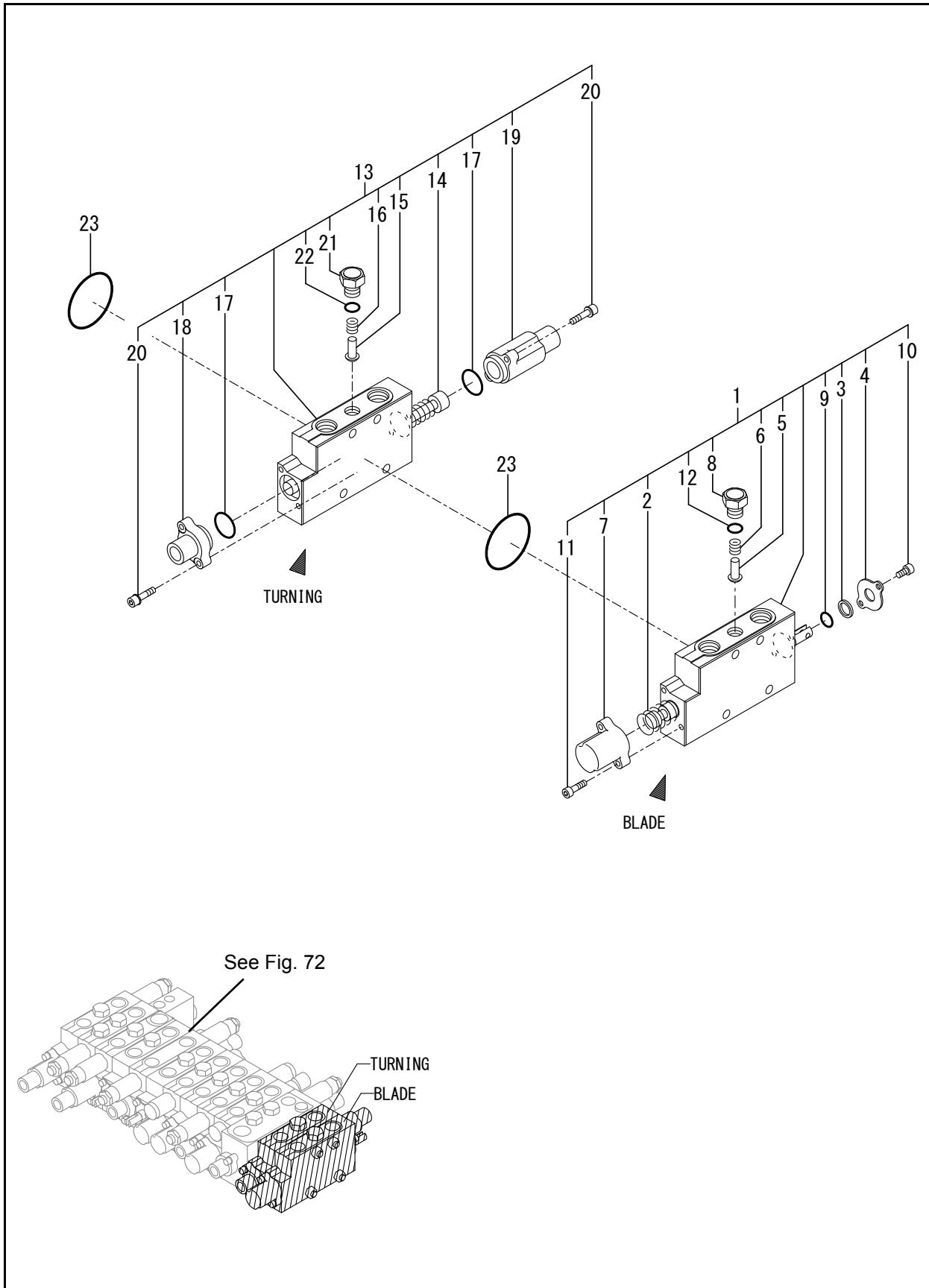
**Z17 - COMPACT EXCAVATOR**  
**FIG. 77 - CONTROL VALVE (6/7)**

Ref.

No.	Part No.	Description	Qty.
1	50285684	CONFLUENCE	1
2	50285685	CONFLUENCE SEC ASSY	1
3	50285686	CASE,FILTER	1
4	50285687	RING, 8	1
5	50283055	PACKING S 22	2
6	50283056	COVER B1, PILOT	1
7	50283058	SWP HEX.BOLT 5X20	4
8	50283059	CHECK VALVE	2
9	50283060	SPRING, CHECK VALVE	2
10	50283688	FILTER	1
11	50283062	SEAT, SPRING	1
12	50283063	SPRING,RETURN	1
13	50283064	COVER A2, PILOT	1
14	50283066	STAY, CHECK VALVE	2
15	50283068	PLUG,PF1/8	2
16	50282468	O-RING 1B P-8.0	2
17	50285895	O-RING 1B P-10A	1
18	50282607	PACKING, 11.0	2
19	50285715	VALVE, RELIEF 170	1

# Z17 - COMPACT EXCAVATOR

## FIG. 78 - CONTROL VALVE (7/7)

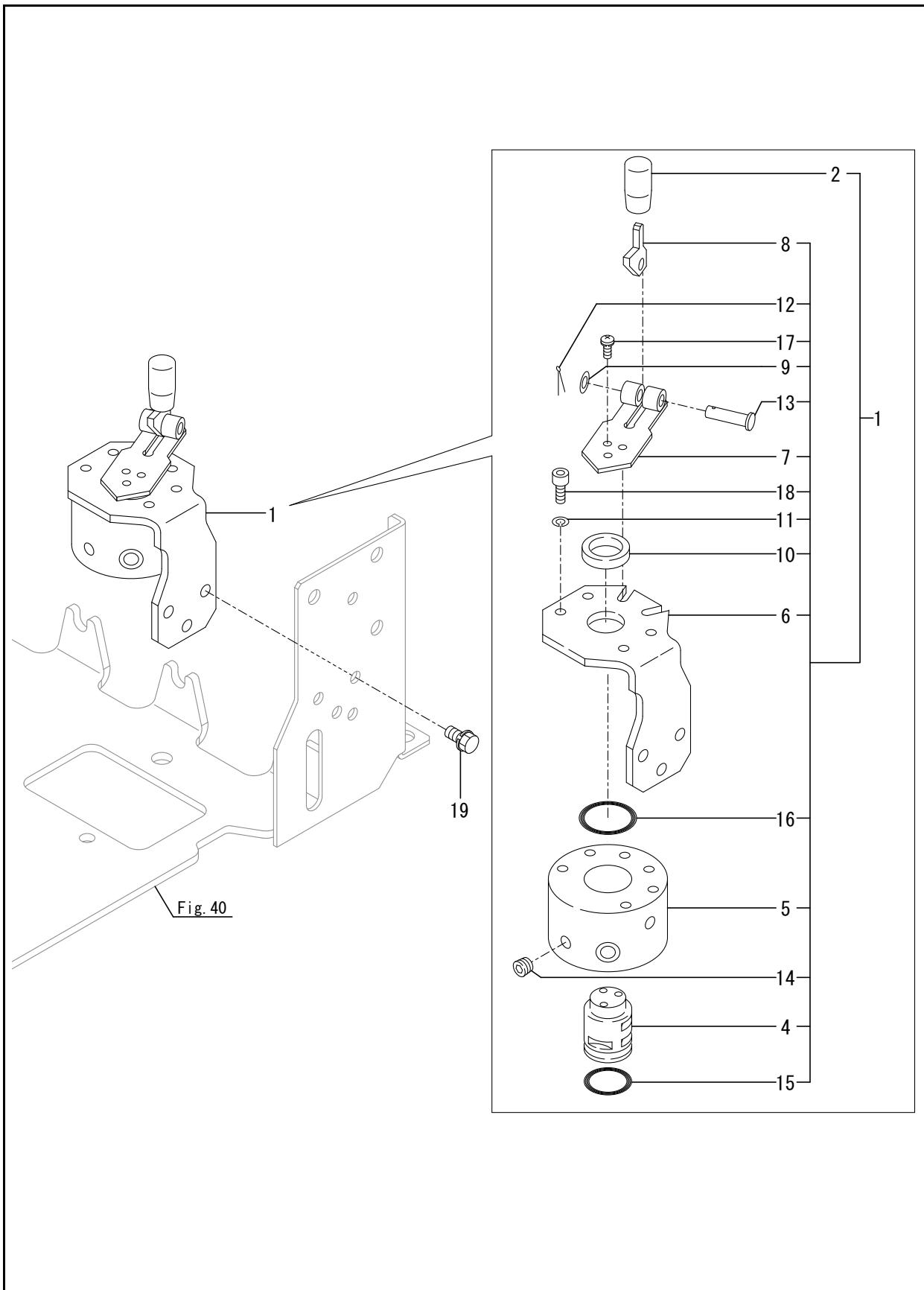


**Z17 - COMPACT EXCAVATOR**  
**FIG. 78 - CONTROL VALVE (7/7)**

Ref.

No.	Part No.	Description	Qty.
1	50285680	BLADE SEC ASSY	1
2	50285681	SPOOL ASSY, BLADE	1
3	50283050	DUST WIPER	1
4	50283051	BRACKET, OIL SEAL	1
5	50283052	CHECK VALVE	1
6	50283053	SPRING, CHECK VALVE	1
7	50283054	CAP, SPRING	1
8	50283065	STAY, CHECK VALVE	1
9	425-34776	O-RING 1A P-12.0	1
10	197813	BOLT M5X10	2
11	50284129	BOLT 5* 18	2
12	50282607	PACKING, 11.0	1
13	50285682	SWING SEC ASSY	1
14	50285683	SPOOL ASSY, TURNING	1
15	50283052	CHECK VALVE	1
16	50283053	SPRING, CHECK VALVE	1
17	50283055	PACKING S 22	2
18	50283056	COVER B1, PILOT	1
19	50283057	COVER A1, PILOT	1
20	50283058	SWP HEX.BOLT 5X20	4
21	50283065	STAY, CHECK VALVE	1
22	50282607	PACKING, 11.0	1
23	50285391	PACKING G 4	2

**Z17 - COMPACT EXCAVATOR**  
**FIG. 79 - 2-WAY VALVE**

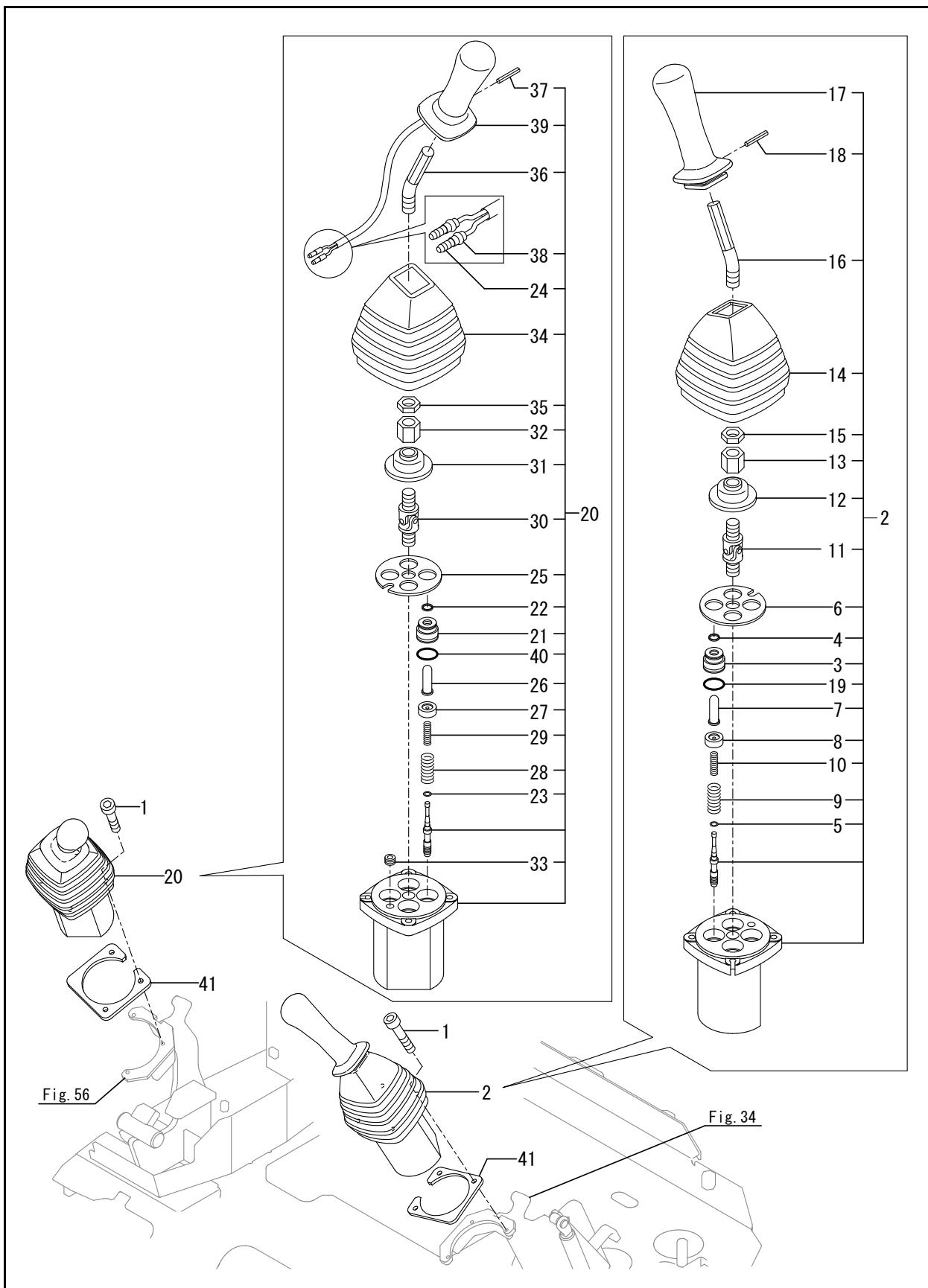


**Z17 - COMPACT EXCAVATOR**  
**FIG. 79 - 2-WAY VALVE**

Ref.

No.	Part No.	Description	Qty.
1	50281426	VALVE ASSY,2WAY	1
2	50280849	KNOB 6.5X18X35	1
4	50281040	SHAFT	1
5	50281041	BLOCK,VALVE	1
6	50281042	STAY ASSY	1
7	50281427	LEVER	1
8	50281428	PLATE,LOCK	1
9	138515	WASHER 8	1
10	50282384	WASHER 24,POLISHED	1
11	425-34891	SPRING WASHER 6	4
12	50282417	COTTER PIN 2.0X16	1
13	50282421	PIN 8X 30	1
14	50282447	PLUG PT1/8,SCREW	4
15	50282460	O-RING 1A P-25.0	1
16	425-34745	O-RING 1A P-32.0	1
17	425-36271	SCREW M 5 X 12	3
18	50282581	BOLT M 6X 16	4
19	50282515	BOLT W/WASHER M10X20	3

**Z17 - COMPACT EXCAVATOR**  
**FIG. 80 - REMOTE CONTROL VALVE**



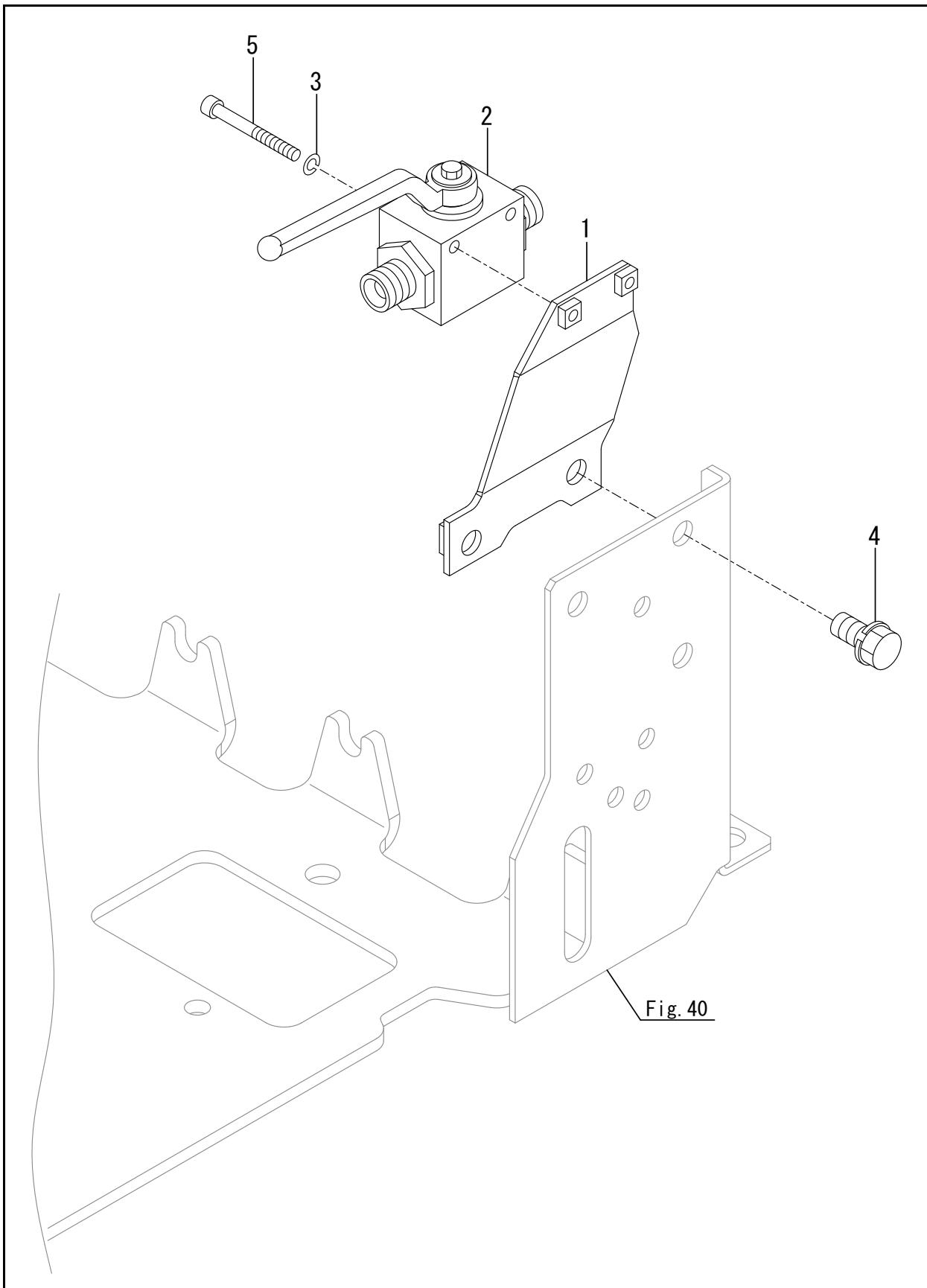
**Z17 - COMPACT EXCAVATOR**  
**FIG. 80 - REMOTE CONTROL VALVE**

Ref.

No.	Part No.	Description	Qty.
1	50285390	BOLT N6X30	6
2	50285699	REMOTE CONTROL VALVE	1
3	50285262	PLUG	4
4	50285263	SEAL	4
5	50285264	WASHER	4
6	50285716	PLATE	1
7	50285717	ROD,PUSH	4
8	50285718	SEAT,SPRING	4
9	50285719	SPRING	4
10	50285720	SPRING	4
11	50285721	JOINT	1
12	50285722	PLATE,CIRCULAR	1
13	50285723	NUT,ADJUSTING	1
14	50285725	BELLOWS	1
15	50285729	NUT,LOCK	1
16	50285730	LEVER	1
17	50285731	KNOB	1
18	50285732	PIN,SPRING	1
19	50282475	O-RING 1B P-20.0	4
20	50285700	REMOTE CONTROL VALVE	1
21	50285262	PLUG	4
22	50285263	SEAL	4
23	50285264	WASHER	4
24	50285265	TERMINAL	2
25	50285716	PLATE	1
26	50285717	ROD,PUSH	4
27	50285718	SEAT,SPRING	4
28	50285719	SPRING	4
29	50285720	SPRING	4
30	50285721	JOINT	1
31	50285722	PLATE,CIRCULAR	1
32	50285723	NUT,ADJUSTING	1
33	50285724	BUSHING	1
34	50285725	BELLOWS	1
35	50285729	NUT,LOCK	1
36	50285730	LEVER	1
37	50285732	PIN,SPRING	1
38	50285733	SLEEVE,INSULATION	2
39	50285734	KNOB	1
40	50282475	O-RING 1B P-20.0	4
41	50285855	PLATE CMP(VALVE)	2

# Z17 - COMPACT EXCAVATOR

## FIG. 81 - STOP VALVE



**Z17 - COMPACT EXCAVATOR**  
**FIG. 81 - STOP VALVE**

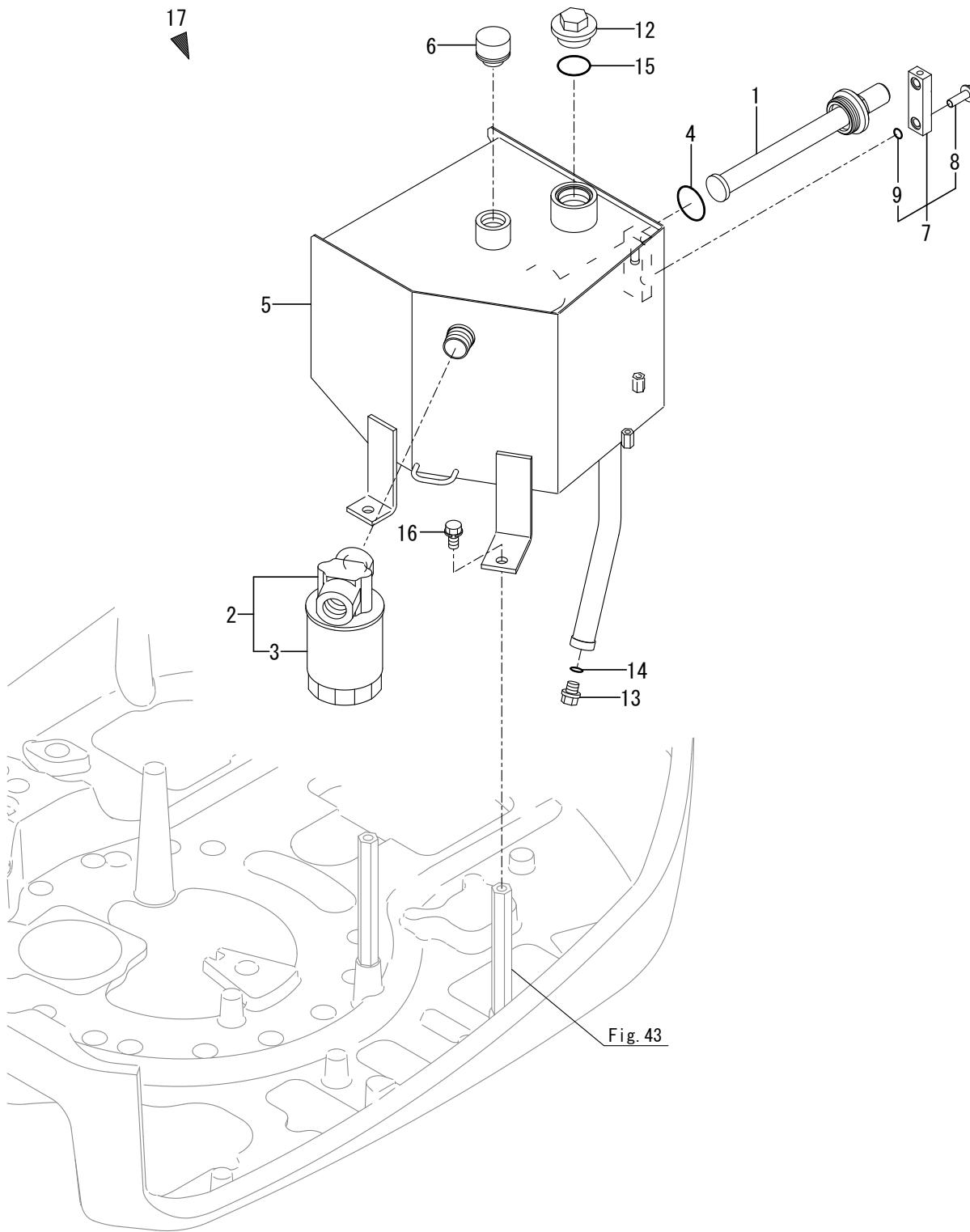
Ref.

No.	Part No.	Description	Qty.
1	50285519	STAY ASSY,VALVE	1
2	50285726	STOP VALVE 06 ASSY (PTO selection valve)	1
3	425-34968	SPRING WASHER 5	2
4	50282515	BOLT W/WASHER M10X20	2
5	50284131	BOLT M 5X 45	2

# Z17 - COMPACT EXCAVATOR

## FIG. 82 - HYD. OIL TANK

17 INC. Fig. 82 Ref. No1~15.  
Fig. 89 Ref. No1~6.

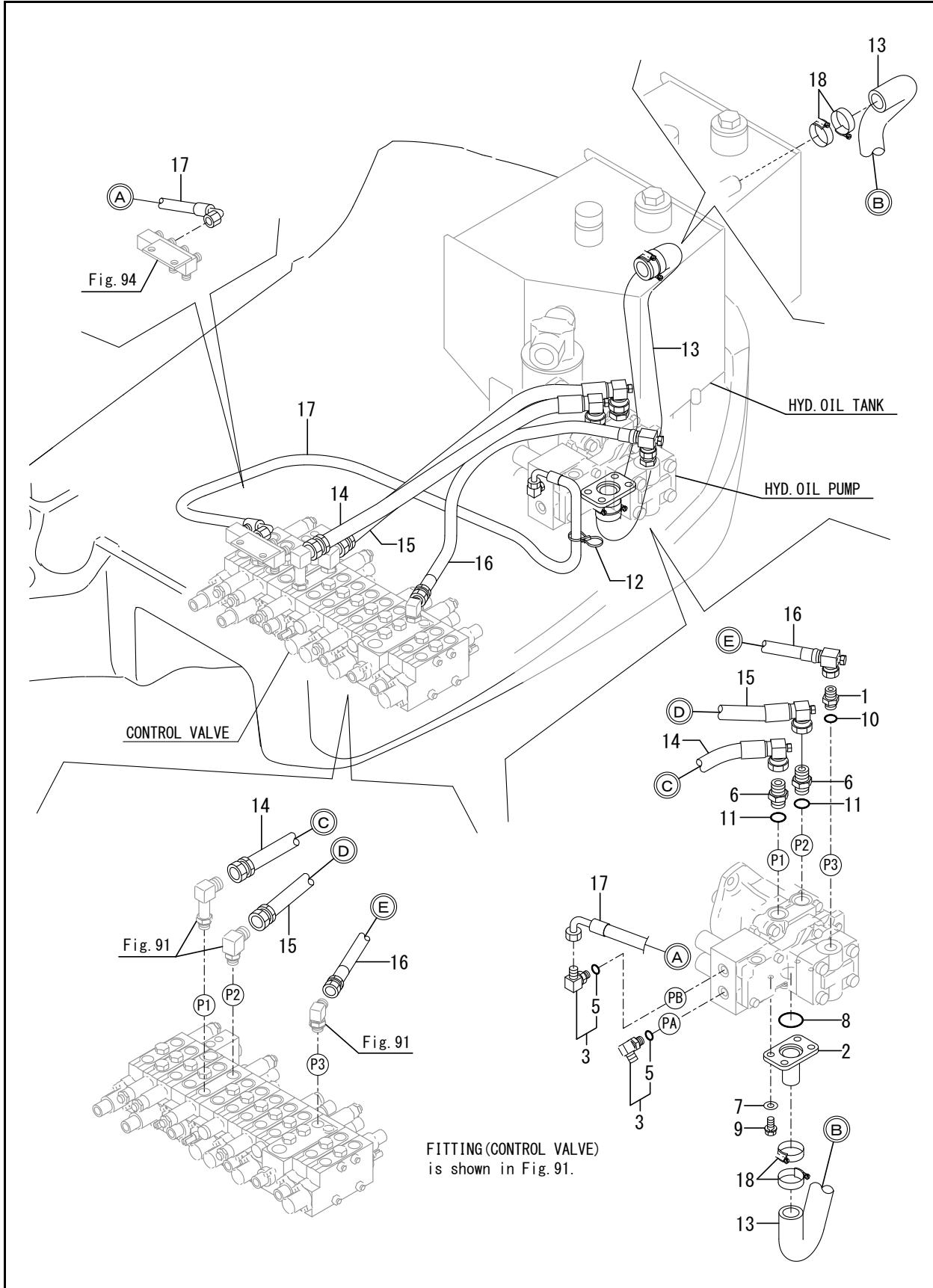


**Z17 - COMPACT EXCAVATOR**  
**FIG. 82 - HYD. OIL TANK**

Ref.

No.	Part No.	Description	Qty.
1	50285676	STRAINER	1
2	50285677	FILTER ASSY, RETURN	1
3	50285678	ELEMENT ASSY, FILTER	1
4	50285894	O-RING 1B P-44.0	1
5	50285929	RESERVOIR TANK ASSY (use with label 5A)	1
5A	50281021	LABEL, HYD.OIL TANK (see Page 4)	1
6	50282906	CAP	1
7	50282909	GAUGE ASSY	1
8	50281103	BOLT M10	2
9	50281104	O-RING	4
12	50282691	PLUG, OIL FEED	1
13	50284068	PLUG 14	1
14	425-34744	O-RING 1A P-16.0	1
15	50282462	O-RING 1A P-38.0	1
16	50284101	BOLT M12 X 25	3
17	50286606	HYDRAULIC TANK KIT	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 83 - HYD. OIL PIPING (PUMP)**

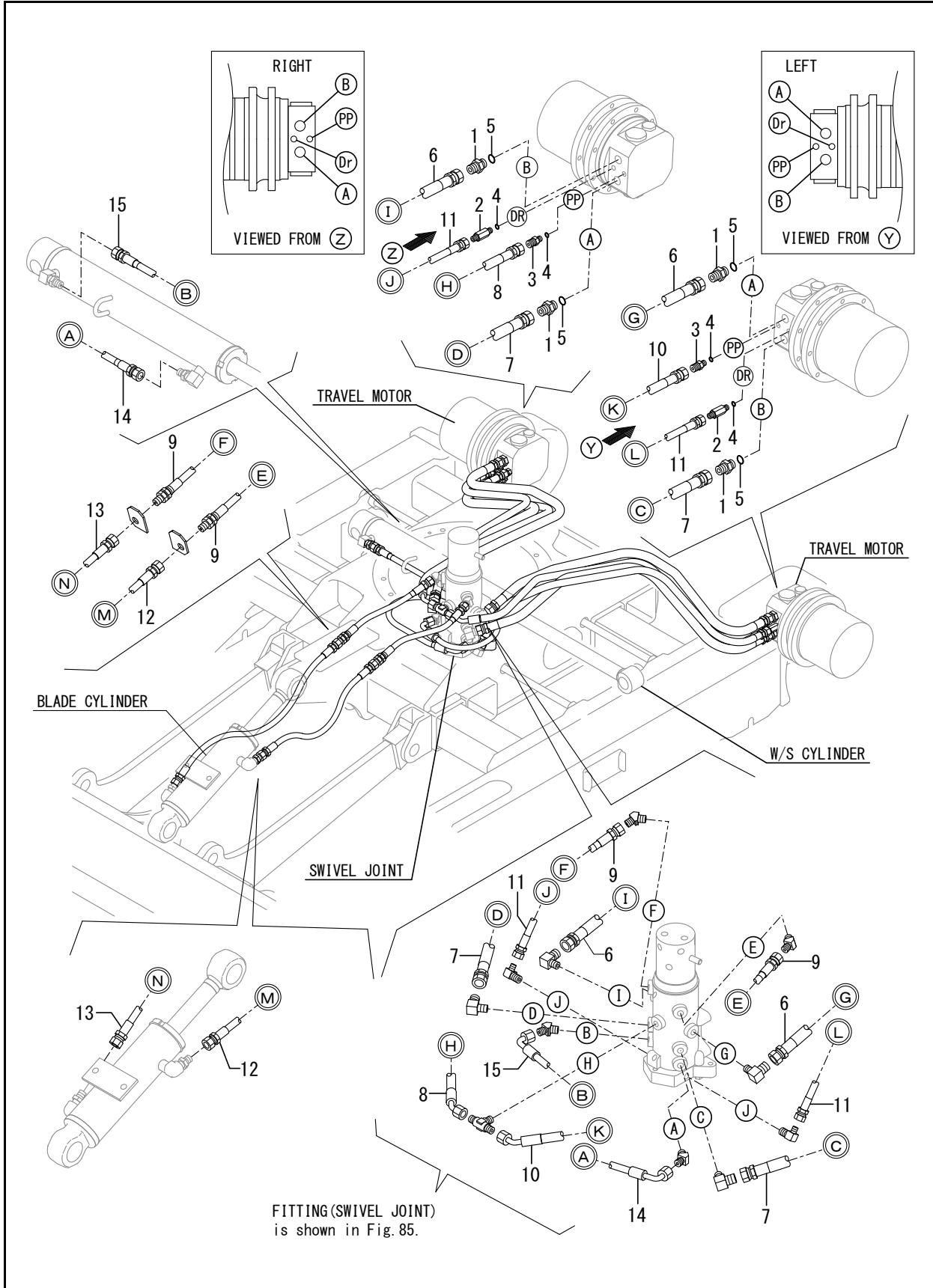


**Z17 - COMPACT EXCAVATOR**  
**FIG. 83 - HYD. OIL PIPING (PUMP)**

Ref.

No.	Part No.	Description	Qty.
1	50281350	JOINT	1
2	50285237	FLANGE,PUMP INLET	1
3	50280813	CONNECTOR ASSY, 02FF	2
5	50282607	PACKING, 11.0	2
6	50280778	CONNECTOR	2
7	50282377	WASHER 10	4
8	50285891	O-RING 1A P-35.0	1
9	50282516	BOLT W/WASHER M10X25	4
10	50282608	O RING P 14.0 HNBR	1
11	50282609	O RING	2
12	50280802	BAND	1
13	50285746	HOSE, SUCTION	1
14	50285747	HOSE	1
15	50285748	HOSE	1
16	50285749	HOSE	1
17	50286481	HOSE	1
18	50282430	CLIP 41,HOSE	4

**Z17 - COMPACT EXCAVATOR**  
**FIG. 84 - HYD. OIL PIPING (LOWER)**



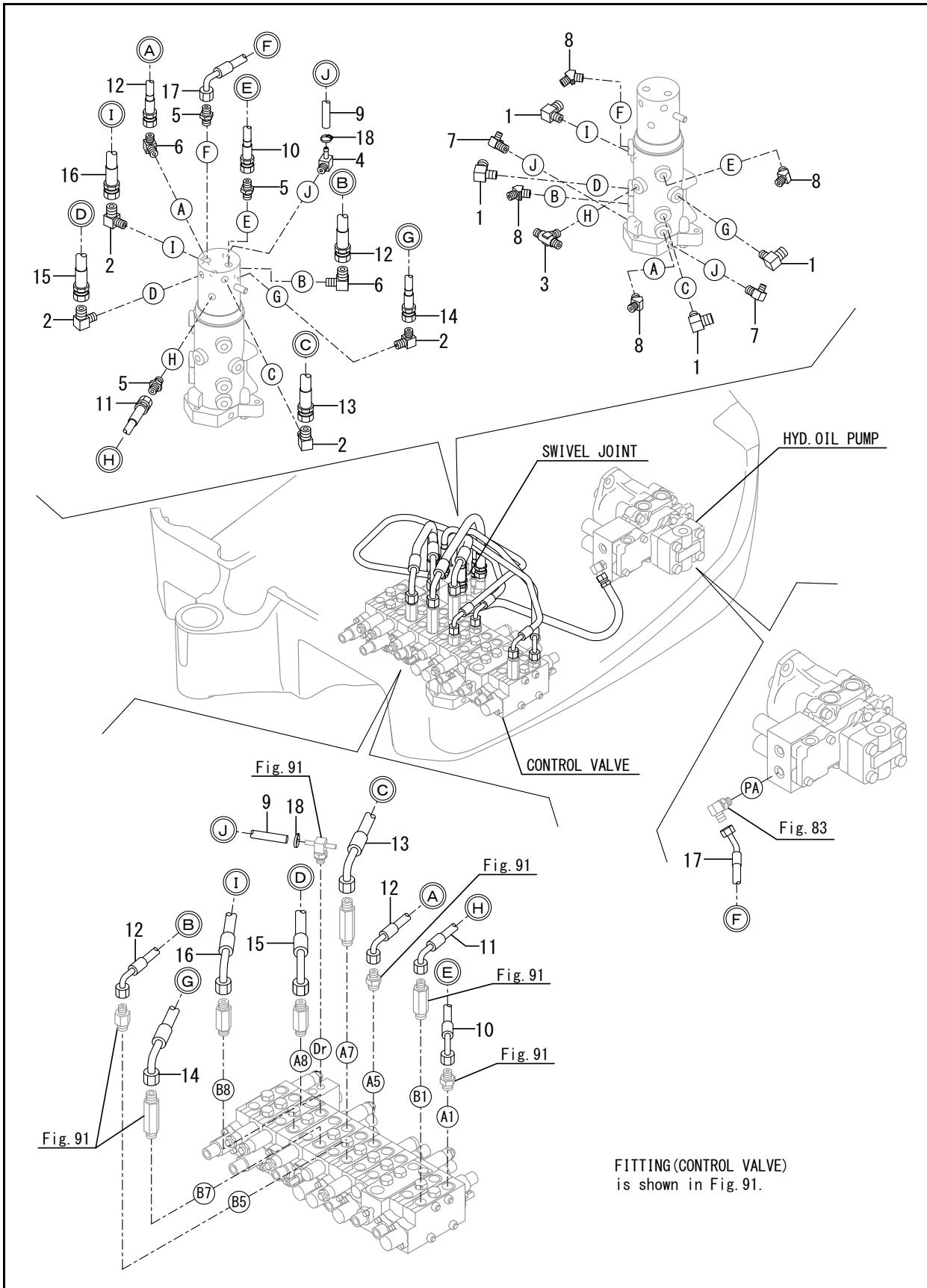
**Z17 - COMPACT EXCAVATOR**  
**FIG. 84 - HYD. OIL PIPING (LOWER)**

Ref.

No.	Part No.	Description	Qty.
1	50281350	JOINT	4
2	50285735	JOINT G1/8-G1/8	2
3	50285325	JOINT G1/8-G1/4	2
4	50282468	O-RING 1B P-8.0	4
5	50282608	O RING P 14.0 HNBR	4
6	50285775	HOSE	2
7	50285776	HOSE	2
8	50285777	HOSE	1
9	50285778	HOSE	2
10	50285780	HOSE	1
11	50285781	HOSE	2
12	50285782	HOSE	1
13	50285783	HOSE	1
14	50285784	HOSE	1
15	50285785	HOSE	1

## Z17 - COMPACT EXCAVATOR

## **FIG. 85 - HYD. OIL PIPING (SWIVEL JOINT)**

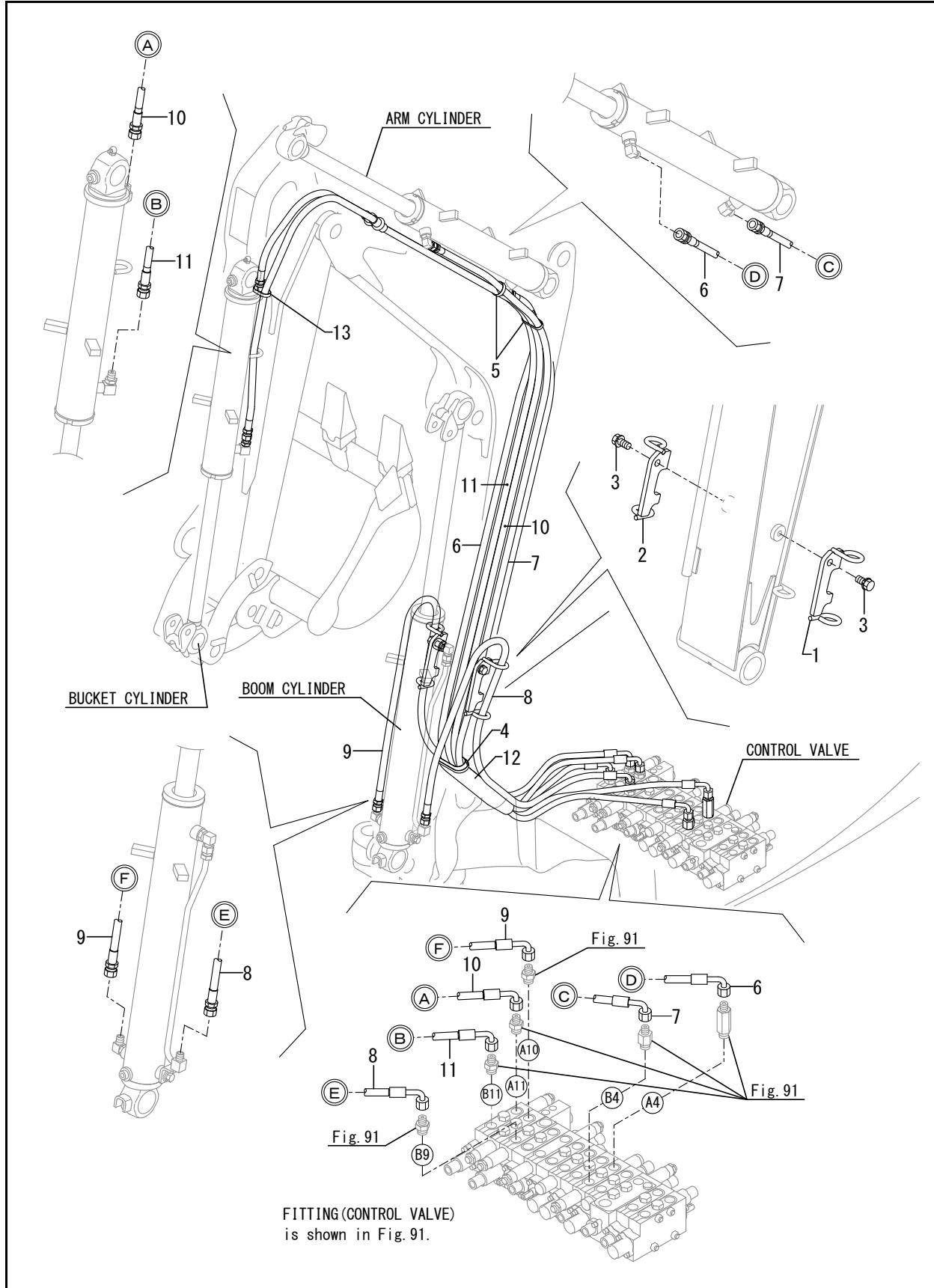


**Z17 - COMPACT EXCAVATOR**  
**FIG. 85 - HYD. OIL PIPING (SWIVEL JOINT)**

Ref.

No.	Part No.	Description	Qty.
1	50285253	ELBOW 90 1/4X3/8	4
2	50285253	ELBOW 90 1/4X3/8	4
3	50280876	CONNECTOR 3-1/4	1
4	50282842	NIPPLE	1
5	50282438	JOINT RGI1/4	3
6	50282441	JOINT 90RGI1/4	2
7	50282441	JOINT 90RGI1/4	2
8	50282443	JOINT 45RGI1/4	4
9	50285755	HOSE G804YY055	1
10	50285758	HOSE	1
11	50285760	HOSE	1
12	50285764	HOSE	2
13	50285767	HOSE	1
14	50285768	HOSE	1
15	50285769	HOSE	1
16	50285770	HOSE	1
17	50285792	HOSE	1
18	425-34918	CLAMP 13	2

**Z17 - COMPACT EXCAVATOR**  
**FIG. 86 - HYD. OIL PIPING (IMP)**



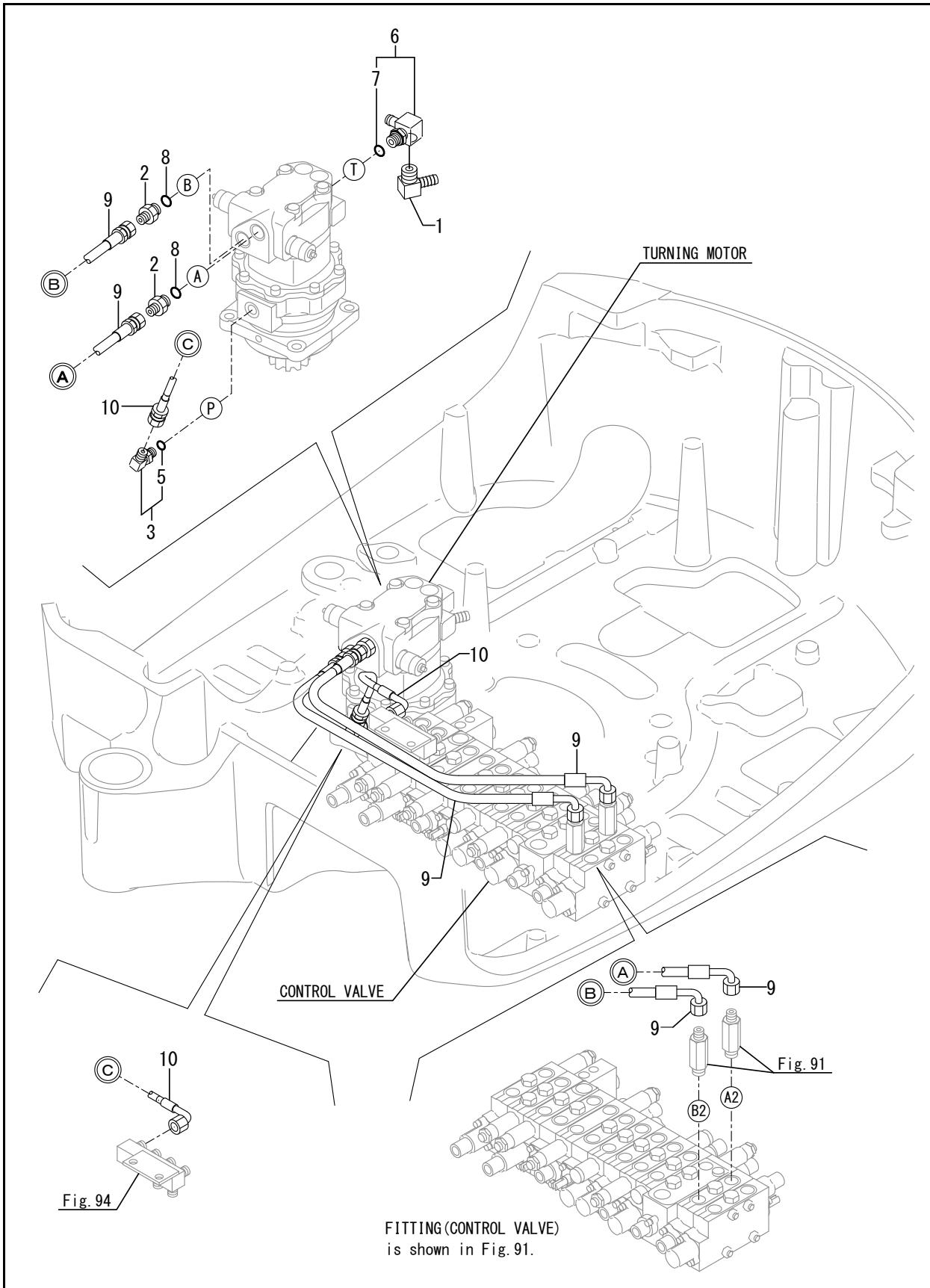
**Z17 - COMPACT EXCAVATOR**  
**FIG. 86 - HYD. OIL PIPING (IMP)**

Ref.

No.	Part No.	Description	Qty.
1	50285739	GUIDE L,HOSE ASSY	1
2	50285740	GUIDE R,HOSE ASSY	1
3	50282525	BOLT W/WASHER M12X30	2
4	50280798	BAND 300	1
5	50282352	BAND	2
6	50285762	HOSE	1
7	50285763	HOSE	1
8	50285771	HOSE	1
9	50285772	HOSE	1
10	50285773	HOSE	1
11	50285774	HOSE	1
12	50285806	COVER, HOSE	1
13	50285235	CLAMP	1

# Z17 - COMPACT EXCAVATOR

## FIG. 87 - HYD. OIL PIPING (TURNING MOTOR)



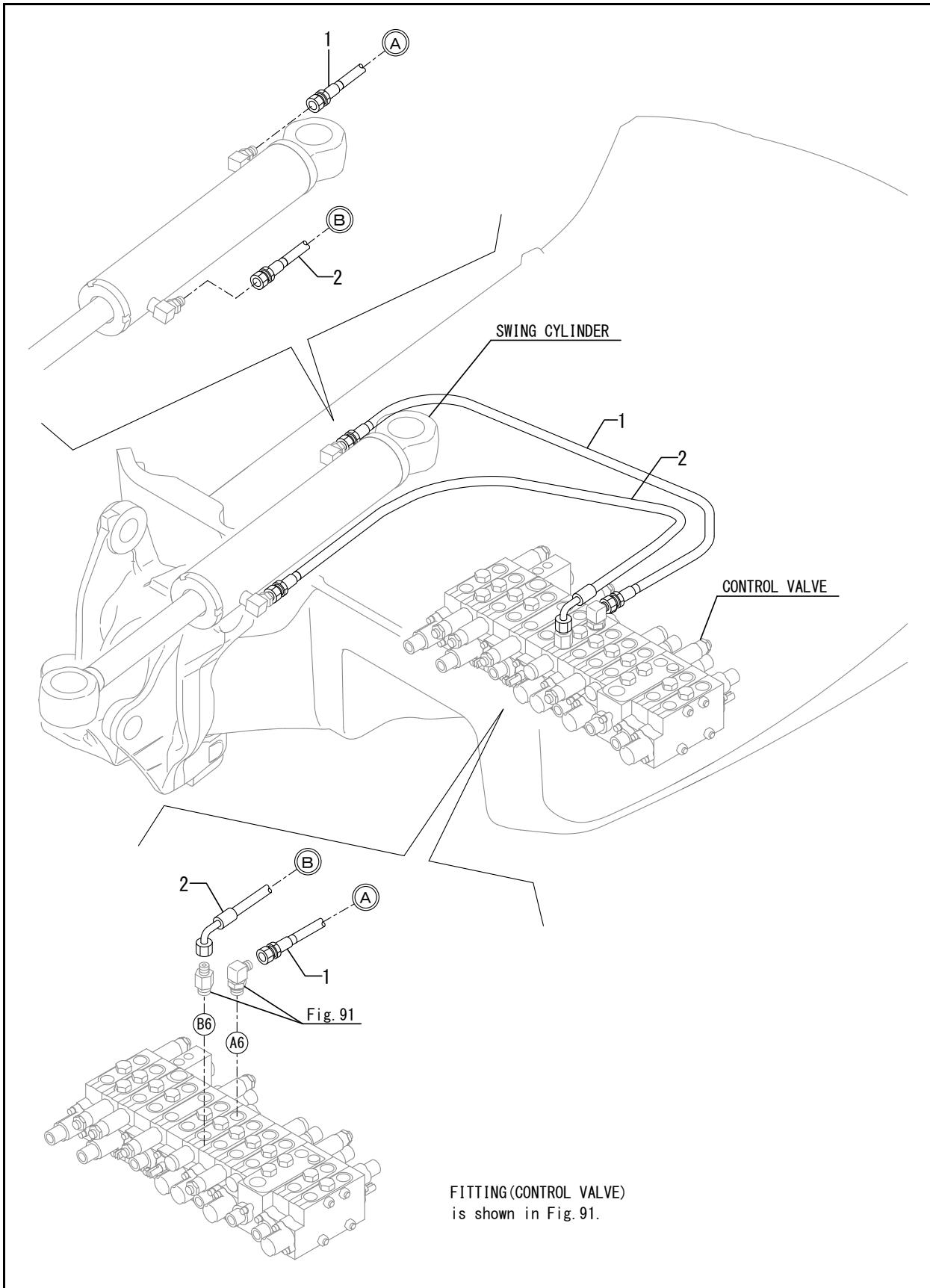
**Z17 - COMPACT EXCAVATOR**  
**FIG. 87 - HYD. OIL PIPING (TURNING MOTOR)**

Ref.

No.	Part No.	Description	Qty.
1	50285238	ELBOW,NIPPLE	1
2	50282716	CONNECTOR	2
3	50280813	CONNECTOR ASSY, 02FF	1
5	50282607	PACKING, 11.0	1
6	50285403	ELBOW	1
7	50282471	O-RING 1B P-14.0	1
8	50282608	O RING P 14.0 HNBR	2
9	50285761	HOSE	2
10	50285796	HOSE	1

# Z17 - COMPACT EXCAVATOR

## FIG. 88 - HYD. OIL PIPING (SWING CYLINDER)

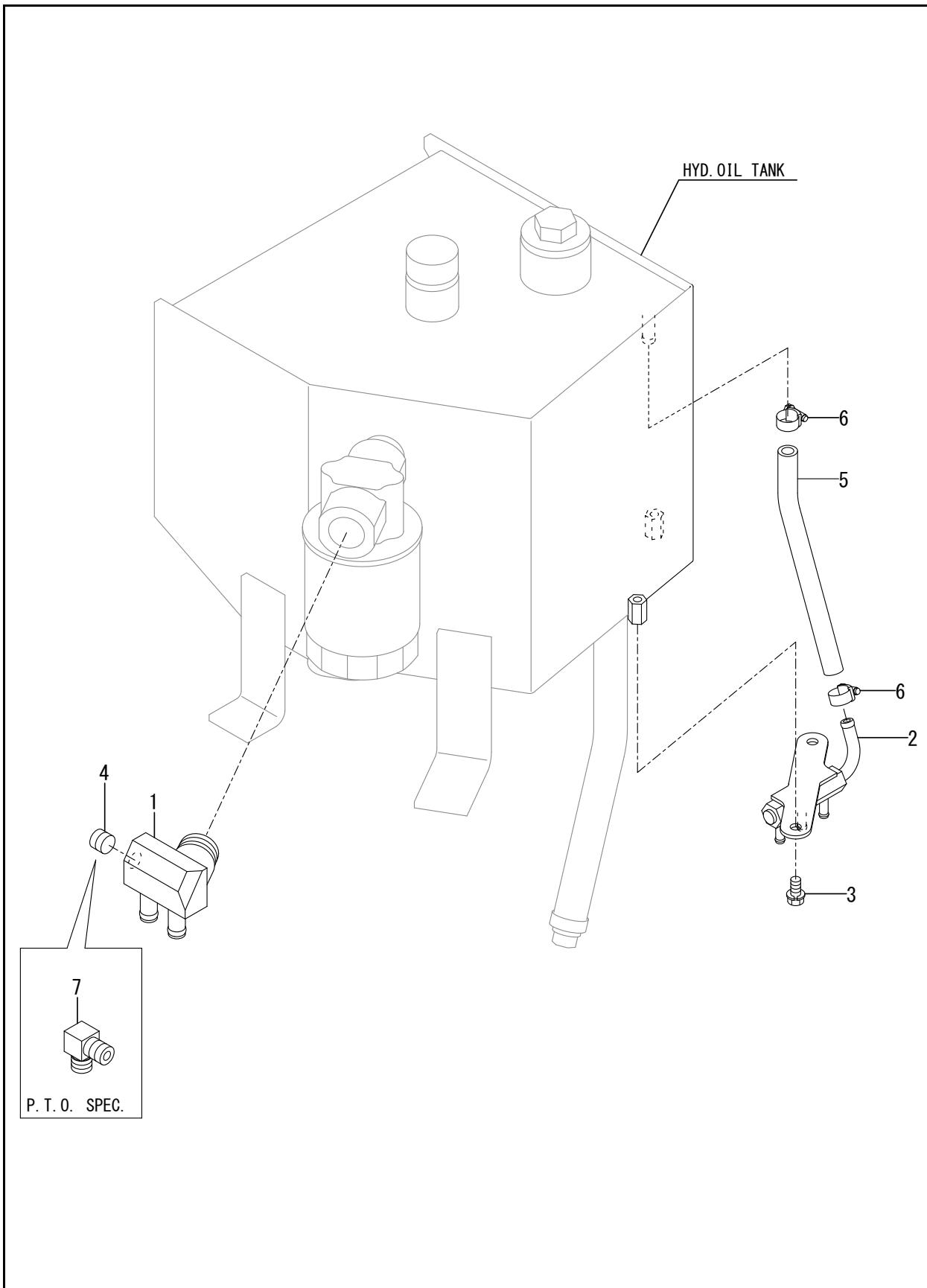


**Z17 - COMPACT EXCAVATOR**  
**FIG. 88 - HYD. OIL PIPING (SWING CYLINDER)**

Ref.

No.	Part No.	Description	Qty.
1	50285765	HOSE	1
2	50285766	HOSE	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 89 - HYD. OIL PIPING (RESERVOIR)**

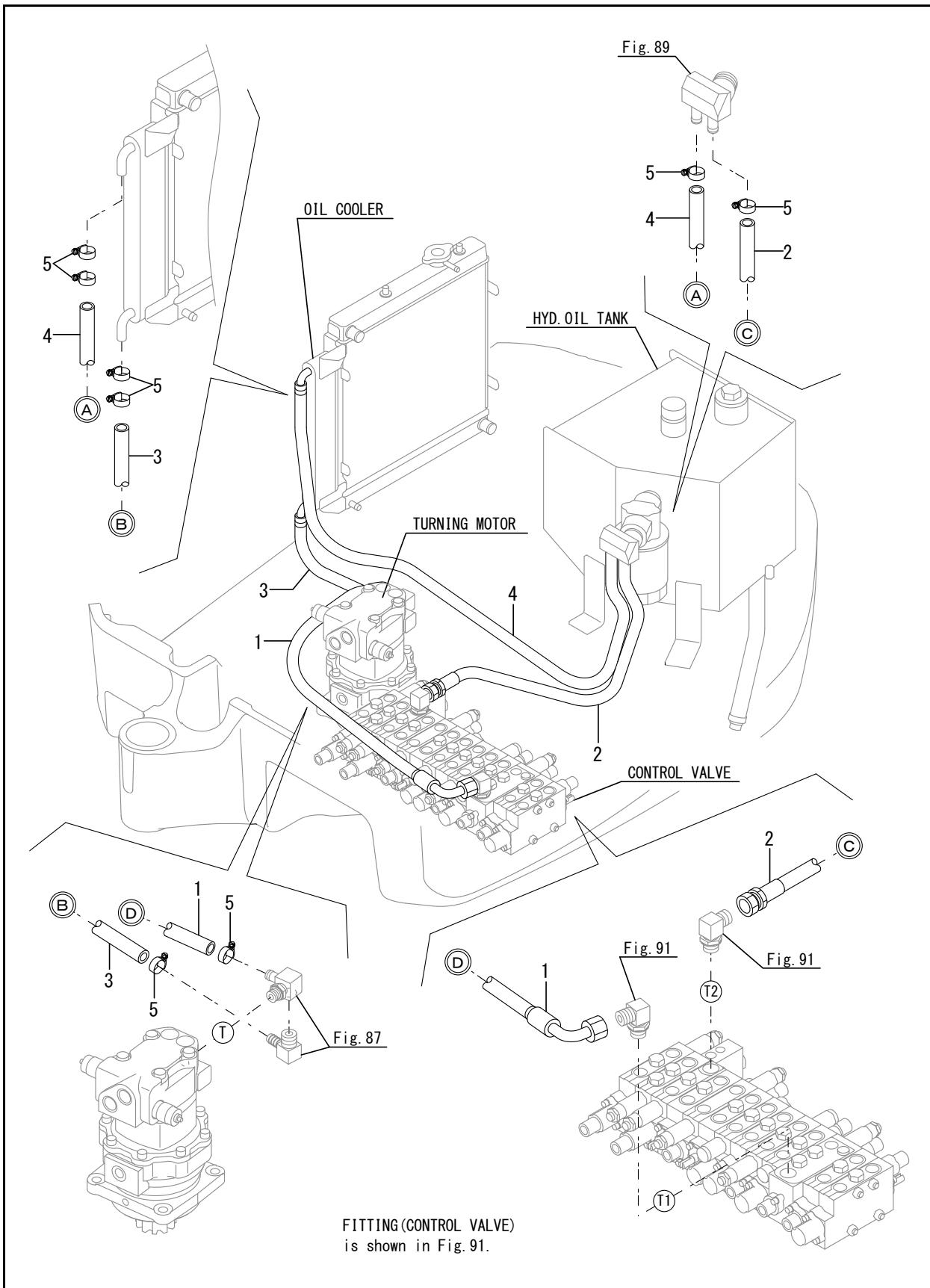


**Z17 - COMPACT EXCAVATOR**  
**FIG. 89 - HYD. OIL PIPING (RESERVOIR)**

Ref.

No.	Part No.	Description	Qty.
1	50285736	JOINT, DRAIN	1
2	50285737	BLOCK, DRAIN	1
3	50282507	BOLT W/WASHER M8X20	2
4	425-34728	PLUG PT 3/8	1
5	50285757	HOSE	1
6	50282426	HOSE CLAMP 16	2
7	50284067	JOINT 90RGI 3/8	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 90 - HYD. OIL PIPING (RETURN)**

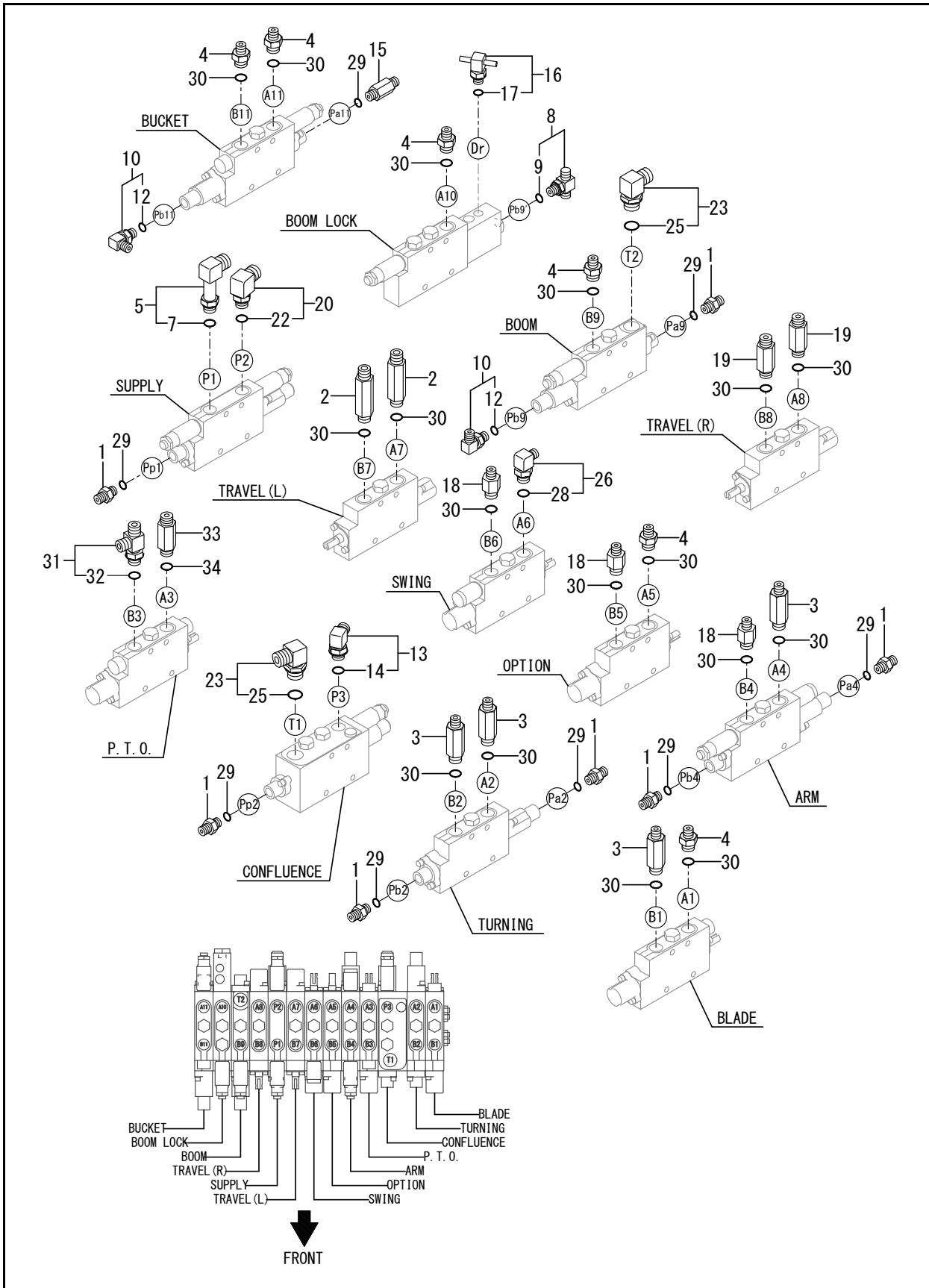


**Z17 - COMPACT EXCAVATOR**  
**FIG. 90 - HYD. OIL PIPING (RETURN)**

Ref.

No.	Part No.	Description	Qty.
1	50285750	HOSE	1
2	50285751	HOSE	1
3	50285752	HOSE	1
4	50285753	HOSE	1
5	50282426	HOSE CLAMP 16	8

**Z17 - COMPACT EXCAVATOR**  
**FIG. 91 - HYD. OIL PIPING (CONTROL VALVE)**

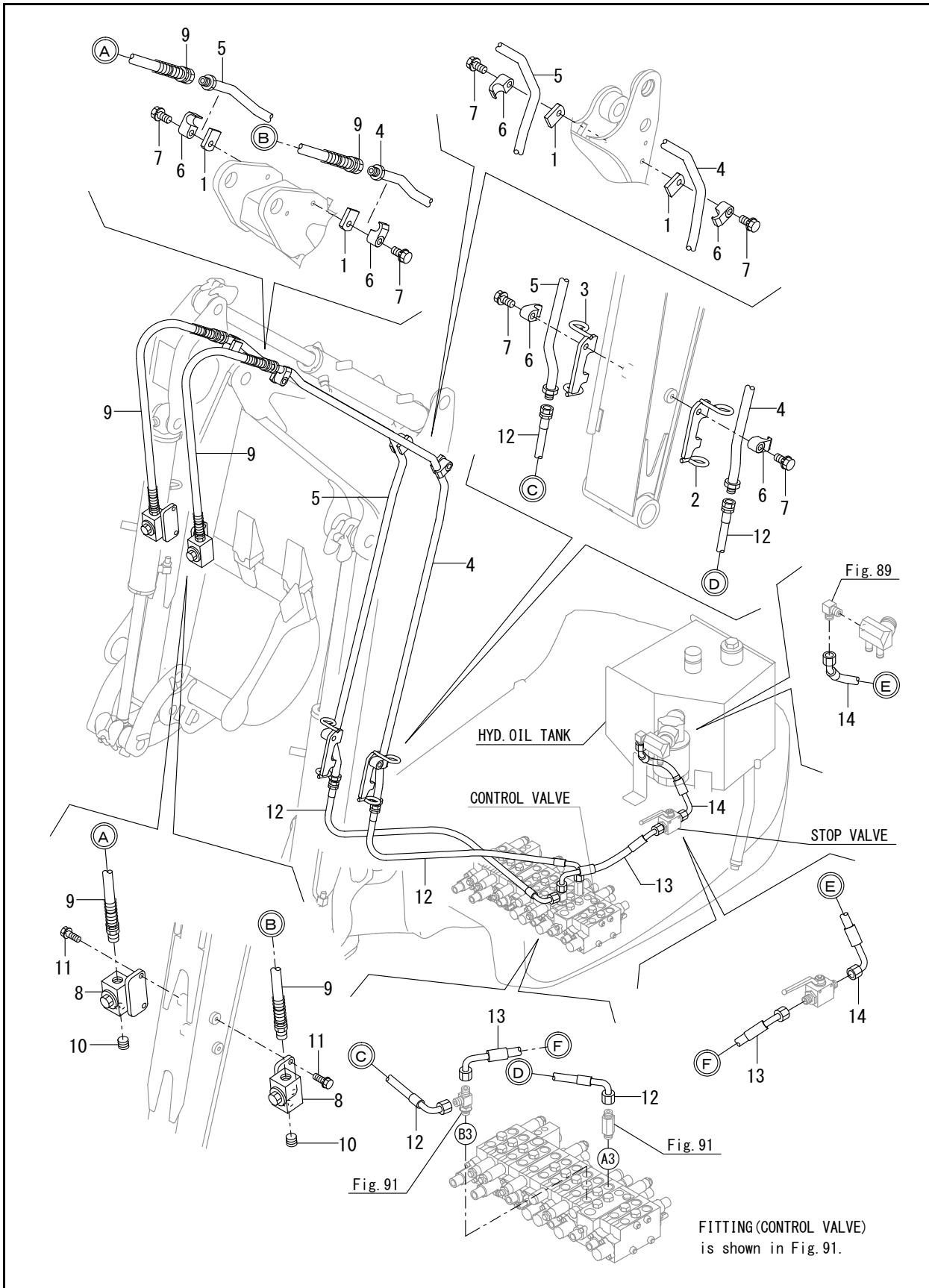


**Z17 - COMPACT EXCAVATOR**  
**FIG. 91 - HYD. OIL PIPING (CONTROL VALVE)**

Ref.

No.	Part No.	Description	Qty.
1	50280792	JOINT PF1/4	7
2	50282783	ADAPTER	2
3	50284245	CONNECTOR	4
4	50282716	CONNECTOR	6
5	50285738	ELBOW 1/2X3/8 ASSY	1
7	50282471	O-RING 1B P-14.0	1
8	50280975	THEETH	1
9	50282470	O-RING 1B P-11.0	1
10	50280813	CONNECTOR ASSY, 02FF	2
12	50282607	PACKING, 11.0	2
13	50280823	JOINT 90-3/8 ASSY	1
14	50282471	O-RING 1B P-14.0	1
15	50280919	CONNECTOR 1/4-1/4	1
16	50281490	NIPPLE G1/4	1
17	50282607	PACKING, 11.0	1
18	50285254	CONNECTOR	3
19	50282692	ADAPTER 64	2
20	50285411	CONNECTOR 3/8X1/2	1
22	50282471	O-RING 1B P-14.0	1
23	50280814	CONNECTOR 1/2L	2
25	50282474	O-RING 1B P-18.0	2
26	50280815	CONNECTOR 3/8-1/4L	1
28	50282471	O-RING 1B P-14.0	1
29	50282607	PACKING, 11.0	8
30	50282608	O RING P 14.0 HNBR	17
31	50285402	ADJUSTABLE TEE 3/8	1
32	50282471	O-RING	1
33	50282692	ADAPTER 64	1
34	50282608	O RING P 14.0 HNBR	1

**Z17 - COMPACT EXCAVATOR**  
**FIG. 92 - HYD. OIL PIPING (P.T.O.)**



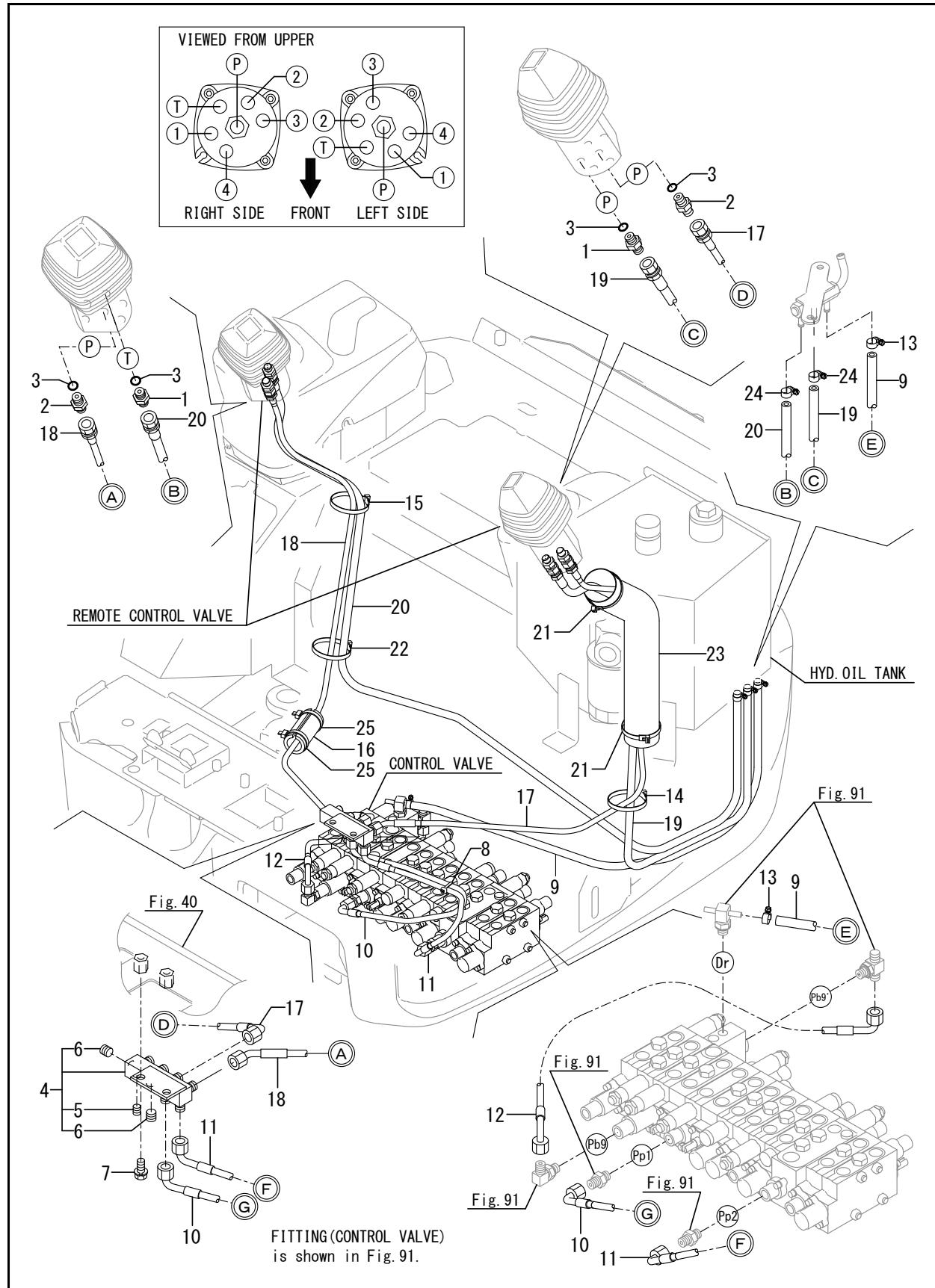
**Z17 - COMPACT EXCAVATOR**  
**FIG. 92 - HYD. OIL PIPING (P.T.O.)**

Ref.

No.	Part No.	Description	Qty.
1	50286179	PLATE	4
2	50285741	GUIDE PL,HOSE ASSY	1
3	50285742	GUIDE PR,HOSE ASSY	1
4	50286311	PTO TUBE ASSY	1
5	50286313	PTO TUBE ASSY	1
6	50286169	CLAMP, 1/2	6
7	50285903	BOLT M12 X 50	6
8	50286177	STOP VALVE	2
9	50285789	HOSE	2
10	50284069	PLUG PT1/2,SCREW	2
11	50282516	BOLT W/WASHER M10X25	4
12	50285786	HOSE	2
13	50285787	HOSE	1
14	50285788	HOSE	1

## Z17 - COMPACT EXCAVATOR

**FIG. 94 - CONTROL PIPING (1)**



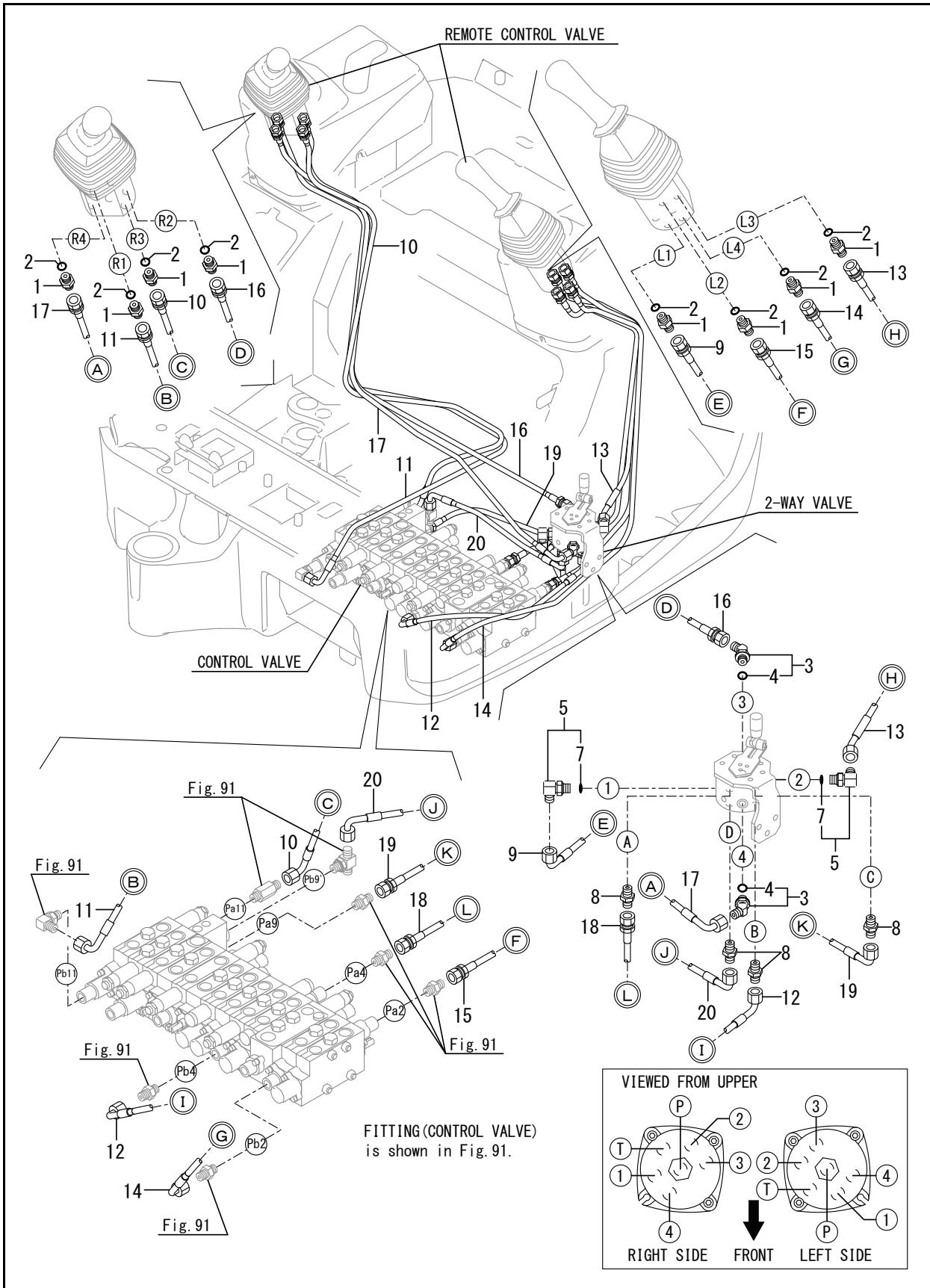
**Z17 - COMPACT EXCAVATOR**  
**FIG. 94 - CONTROL PIPING (1)**

Ref.

No.	Part No.	Description	Qty.
1	50280792	JOINT PF1/4	2
2	50281106	CONNECTOR PF1/4	2
3	50282607	PACKING, 11.0	4
4	50283783	PILOT BLOCK	1
5	50282447	PLUG PT1/8,SCREW	1
6	425-35678	PLUG PT 1/4 SCREW	2
7	50282514	BOLT M10X 16	2
8	50285407	BAND 100	1
9	50285756	HOSE	1
10	50285794	HOSE	1
11	50285795	HOSE	1
12	50285799	HOSE	1
13	425-34918	CLAMP 13	2
14	50285407	BAND 100	1
15	50282352	BAND	1
16	50284740	HOSE	1
17	50285797	HOSE	1
18	50285798	HOSE	1
19	50285800	HOSE	1
20	50285801	HOSE	1
21	50282709	CLAMP B	2
22	50282709	CLAMP B	1
23	50285245	COVER	1
24	425-34918	CLAMP 13	2
25	50284153	BAND 146	2

# Z17 - COMPACT EXCAVATOR

## FIG. 95 - CONTROL PIPING (2)



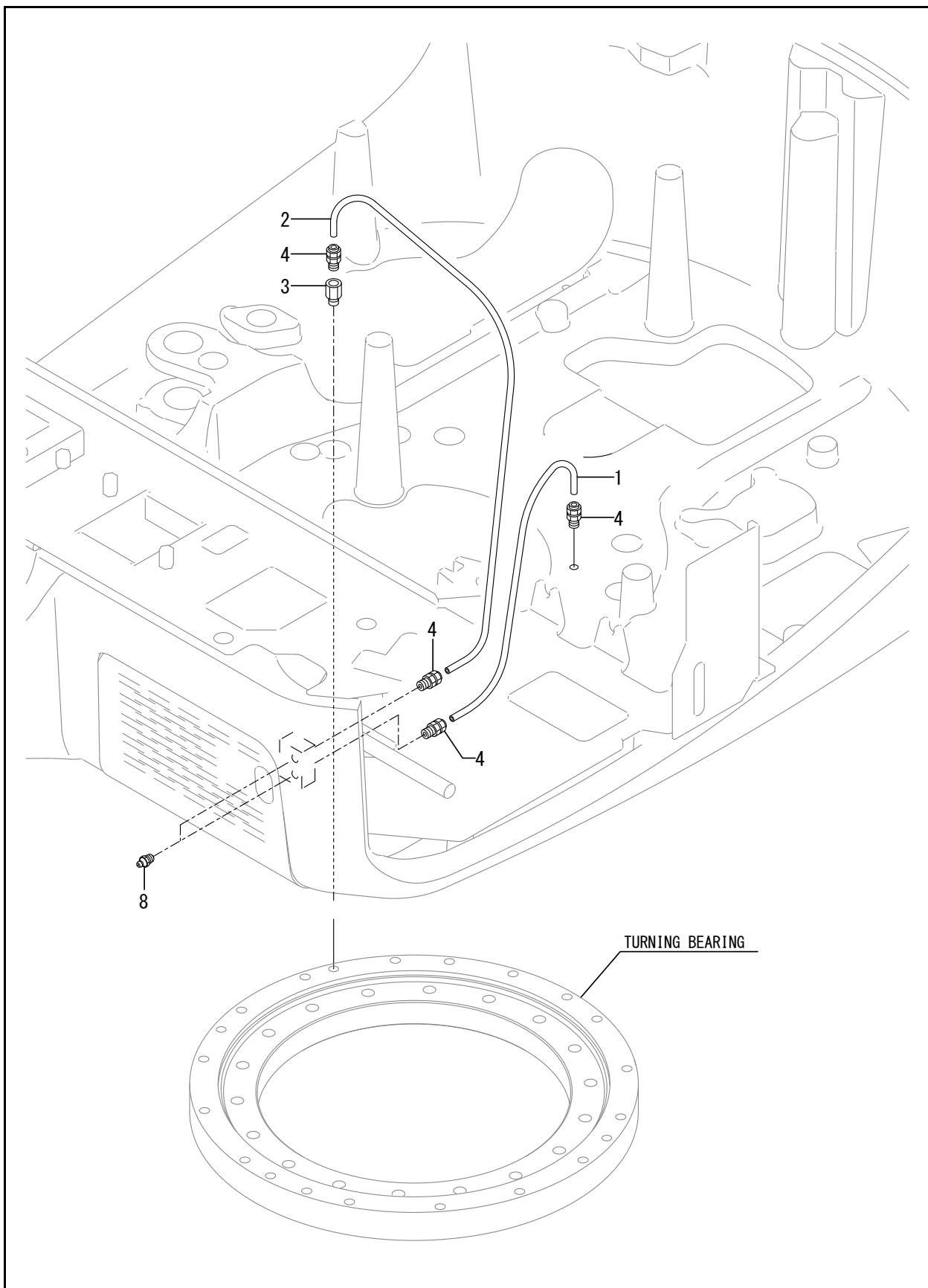
**Z17 - COMPACT EXCAVATOR**  
**FIG. 95 - CONTROL PIPING (2)**

Ref.

No.	Part No.	Description	Qty.
1	50280792	JOINT PF1/4	8
2	50282607	PACKING, 11.0	8
3	50280905	CONNECTOR PF1/4-45	2
4	50282607	PACKING, 11.0	2
5	50280813	CONNECTOR ASSY, 02FF	2
7	50282607	PACKING, 11.0	2
8	50282438	JOINT RGI1/4	4
9	50285802	HOSE	1
10	50285803	HOSE	1
11	50285804	HOSE	1
12	50285805	HOSE	1
13	50285807	HOSE	1
14	50285808	HOSE	1
15	50285809	HOSE	1
16	50285810	HOSE	1
17	50285811	HOSE	1
18	50285812	HOSE	1
19	50285813	HOSE	1
20	50285814	HOSE	1

# Z17 - COMPACT EXCAVATOR

## FIG. 96 - GREASING



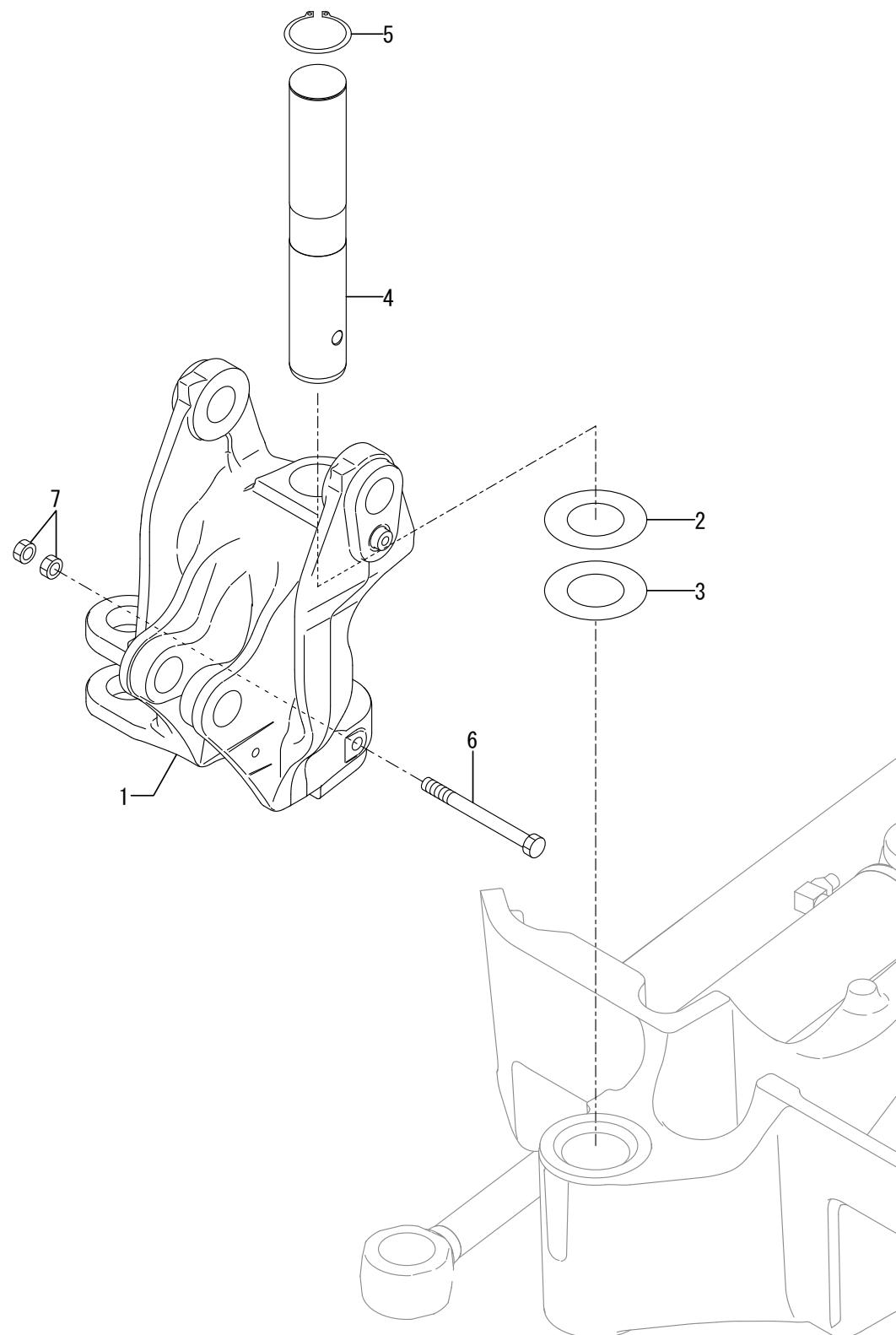
**Z17 - COMPACT EXCAVATOR**  
**FIG. 96 - GREASING**

Ref.

No.	Part No.	Description	Qty.
1	50283790	HOSE	1
2	50285745	HOSE	1
3	50285308	FITTING, GREASE	1
4	50281493	JOINT,GREASE	4
8	50282497	NIPPLE PT1/8,GREASE	2

# Z17 - COMPACT EXCAVATOR

## FIG. 97 - BOOM BRACKET



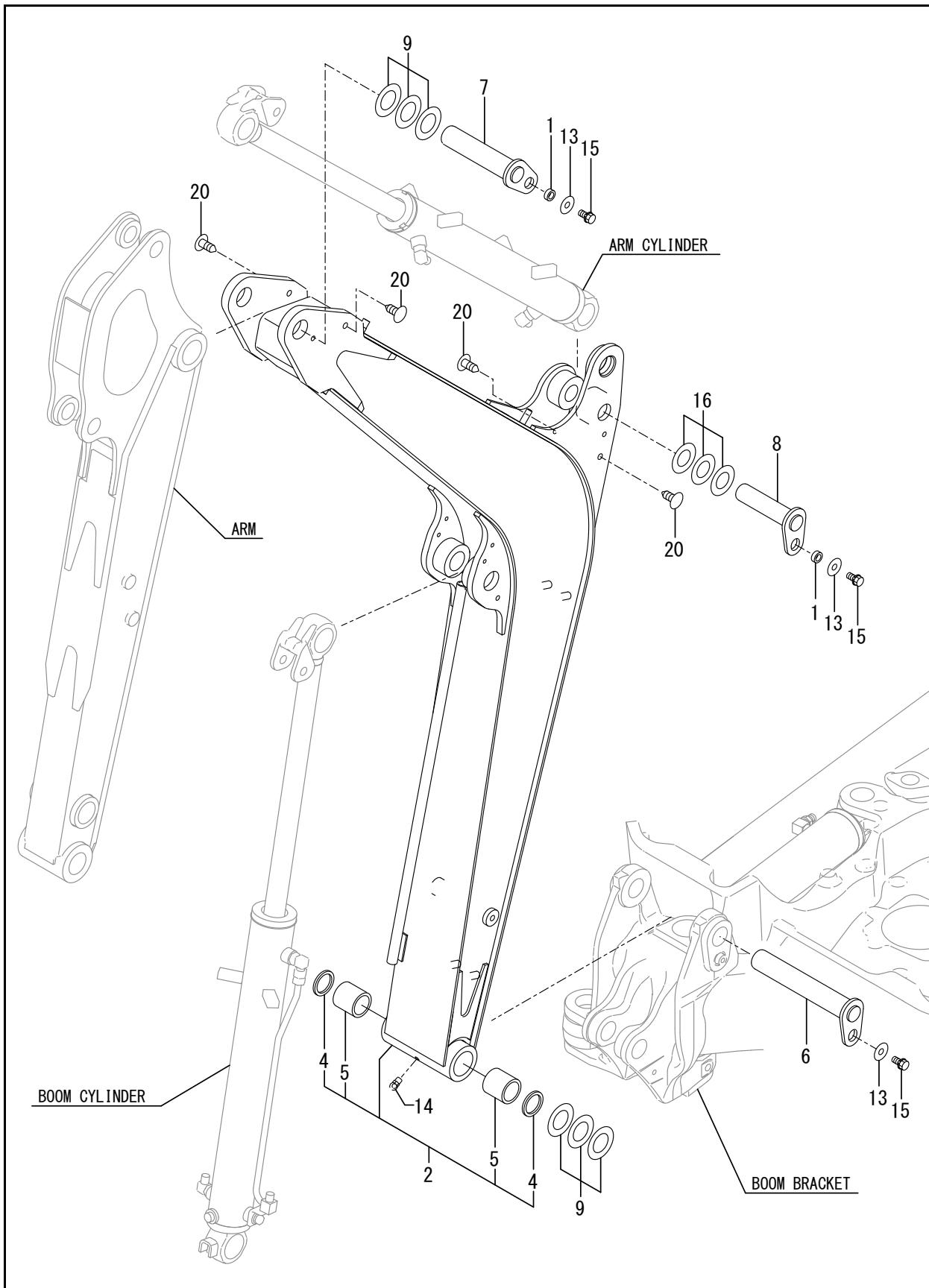
**Z17 - COMPACT EXCAVATOR**  
**FIG. 97 - BOOM BRACKET**

Ref.

No.	Part No.	Description	Qty.
1	50286189	BOOM BRACKET	1
2	50280899	SHIM 50X90X0.5	1
3	50280900	SHIM 50X90X1.2	1
4	50285840	PIN, 50X312 CMP	1
5	50285877	CIRCLIP 50	1
6	50284126	BOLT M12 X 130 PLATED	1
7	50285924	LOCK NUT 12	2

# Z17 - COMPACT EXCAVATOR

## FIG. 99 - BOOM



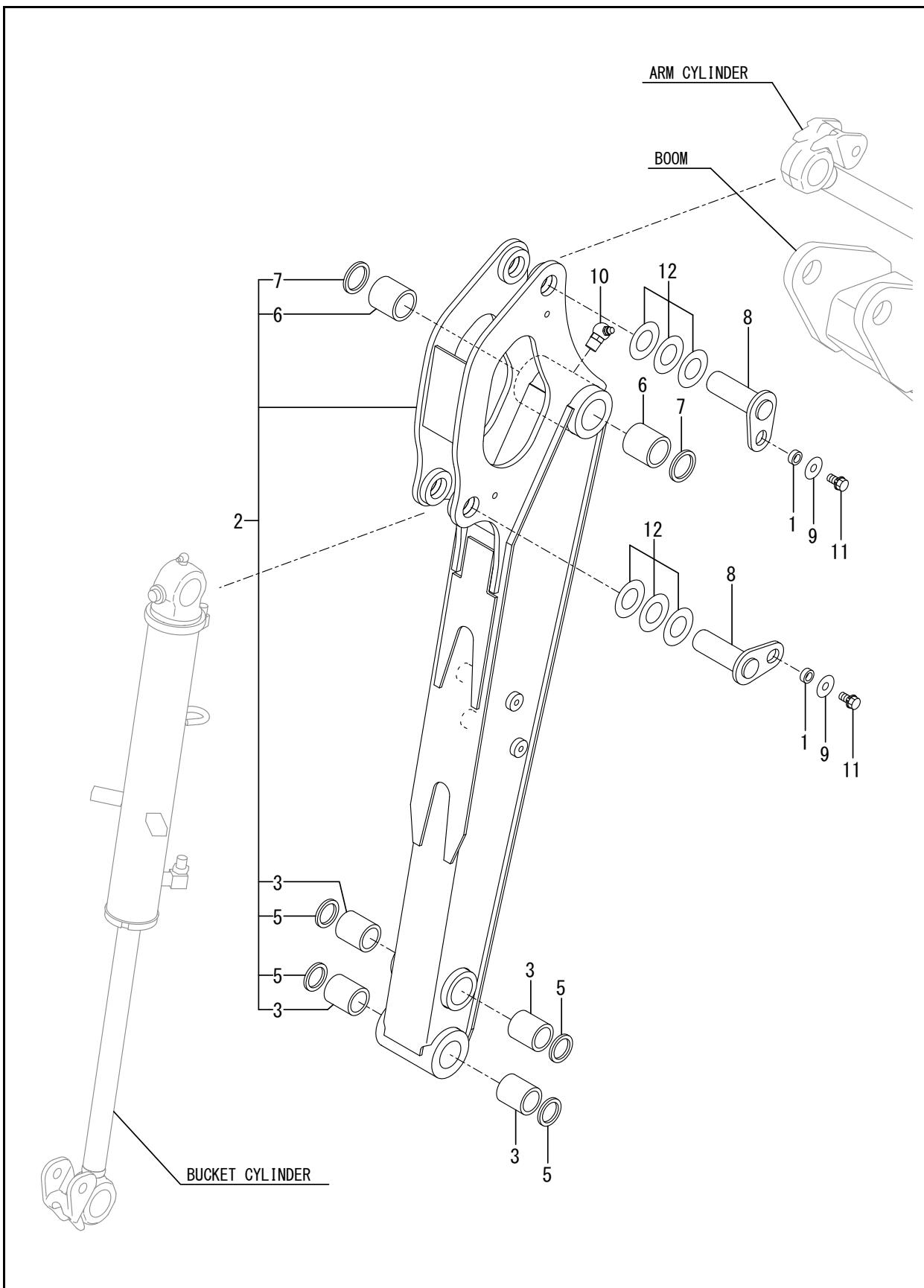
**Z17 - COMPACT EXCAVATOR**  
**FIG. 99 - BOOM**

Ref.

No.	Part No.	Description	Qty.
1	50285232	SPACER	2
2	50286315	BOOM ASSY (use with label 5A)	1
4	50285353	SEAL 35X45X4,DUST	2
5	50285251	BUSHING 35 45	2
5A	50282884	LABEL, BOOM US (see Page 4)	2
6	50285838	PIN ASSY, 35X237	1
7	50285843	PIN ASSY,35X155	1
8	50285845	PIN ASSY, 30X121	1
9	50282733	SHIM 35	2
13	50282387	WASHER 10	3
14	50282499	NIPPLE C,GREASE	1
15	50282516	BOLT W/WASHER M10X25	3
16	50285933	SHIM 30, PIN ADJUST	1
20	50284234	CLIP, TREE	4

# Z17 - COMPACT EXCAVATOR

## FIG. 101 - ARM

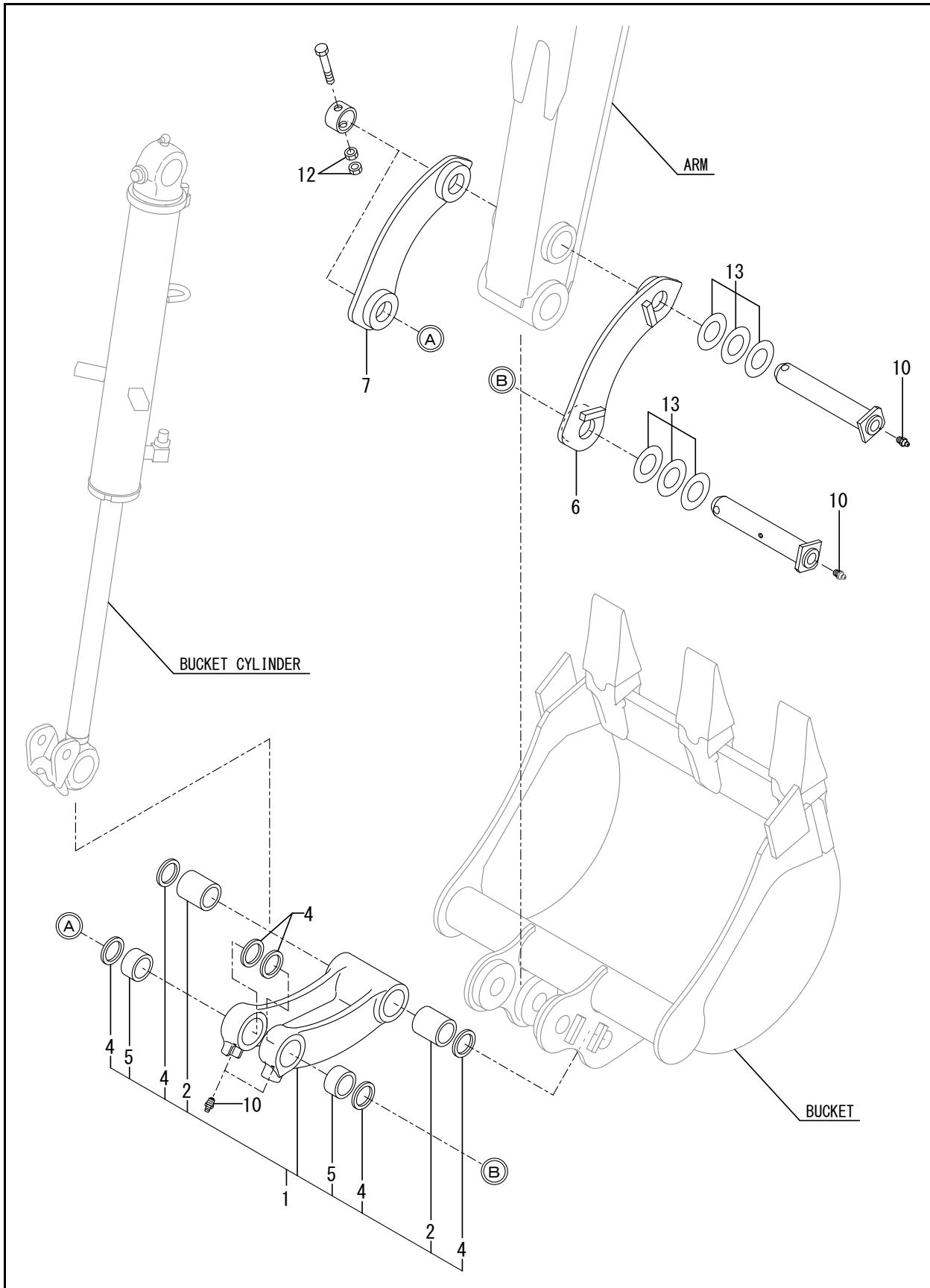


**Z17 - COMPACT EXCAVATOR**  
**FIG. 101 - ARM**

**Ref.**

No.	Part No.	Description	Qty.
1	50285232	SPACER	2
2	50286323	ARM, 950/GEHL	1
3	50285246	BUSHING 30X45, PIN	4
5	50285352	SEAL 30X40X4,DUST	4
6	50285353	SEAL 35X45X4,DUST	2
7	50285251	BUSHING 35 45	2
8	50285846	PIN ASSY,30X87	2
9	50282387	WASHER 10	2
10	50282498	NIPPLE B,GREASE	1
11	50282516	BOLT W/WASHER M10X25	2
12	50285933	SHIM 30, PIN ADJUST	2

**Z17 - COMPACT EXCAVATOR**  
**FIG. 103 - BUCKET ARM & LINK**



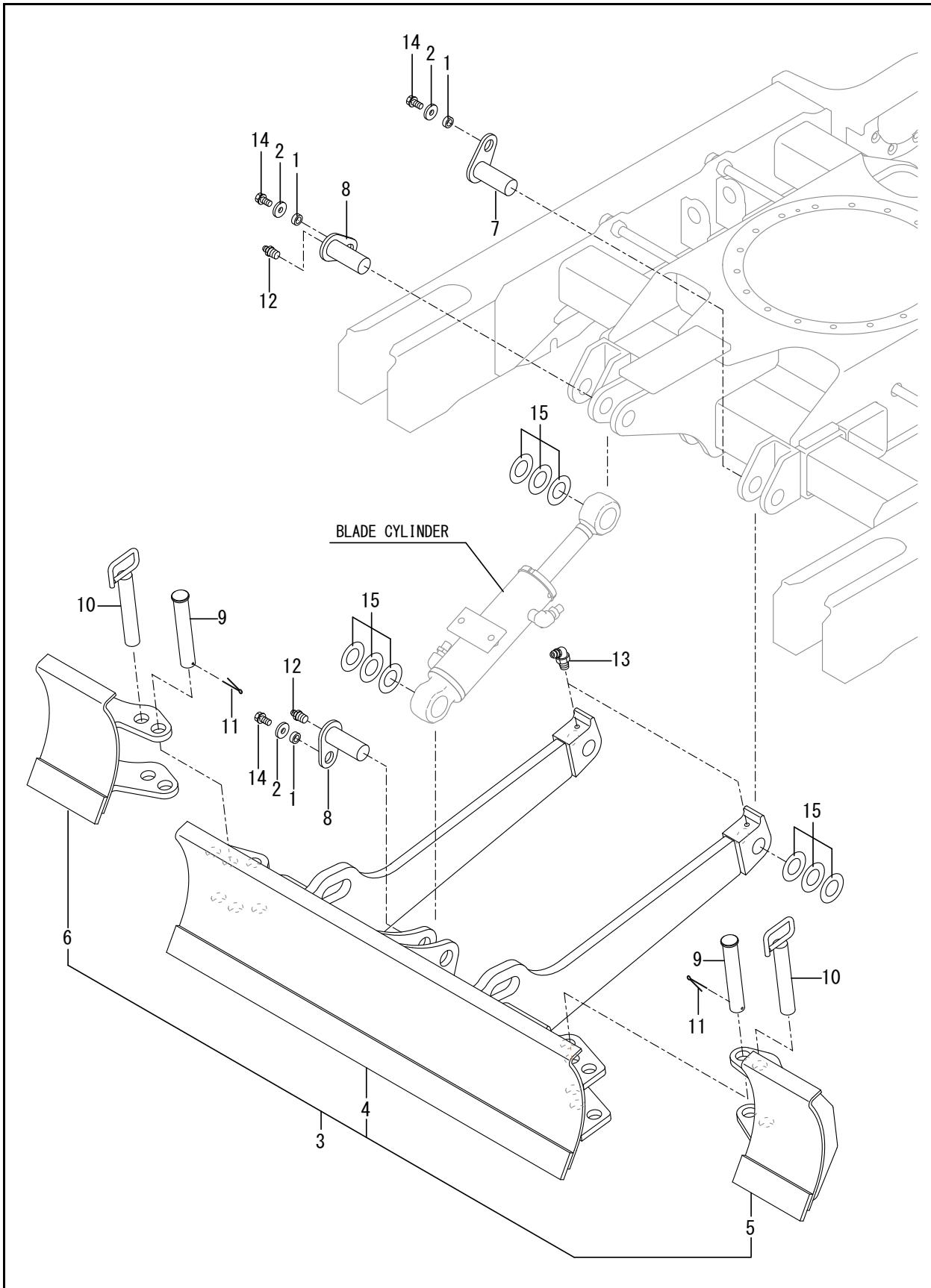
**Z17 - COMPACT EXCAVATOR**  
**FIG. 103 - BUCKET ARM & LINK**

Ref.

No.	Part No.	Description	Qty.
1	50286317	BUCKET LINK ASSY	1
2	50285246	BUSHING 30X45, PIN	2
4	50285352	SEAL 30X40X4,DUST	6
5	50285247	BUSHING	2
6	50286319	BUCKET ARM ASSY LT	1
7	50286321	BUCKET ARM ASSY RT	1
10	50282497	NIPPLE PT1/8,GREASE	4
12	50282597	NUT 10	4
13	50285933	SHIM 30, PIN ADJUST	2

# Z17 - COMPACT EXCAVATOR

## FIG. 106 - BLADE

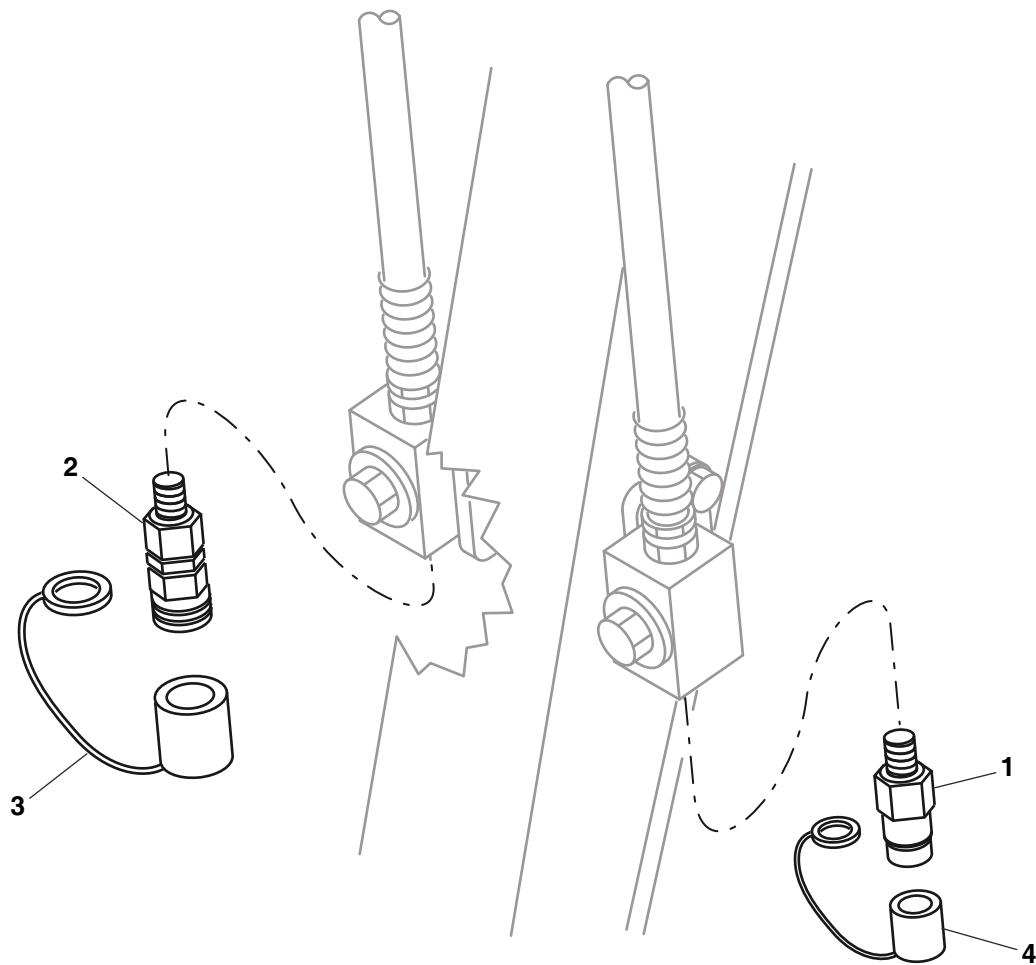


**Z17 - COMPACT EXCAVATOR**  
**FIG. 106 - BLADE**

Ref.

No.	Part No.	Description	Qty.
1	50285232	SPACER	4
2	50285234	COLLAR	4
3	50286596	BLADE ASSY	1
4	50285849	BLADE ASSY	1
5	50285850	SIDE BLADE ASSY LT	1
6	50285851	SIDE BLADE ASSY RT	1
7	50285852	PIN ASSY,30X76 A	2
8	50285853	PIN ASSY,30X76 B	2
9	50285357	PIN 25X143	2
10	50285358	PIN 25	2
11	50285884	COTTER PIN 4.0X40	2
12	50282497	NIPPLE PT1/8,GREASE	2
13	50282498	NIPPLE B,GREASE	2
14	50282516	BOLT W/WASHER M10X25	4
15	50285933	SHIM 30, PIN ADJUST	4

**Z17 - COMPACT EXCAVATOR  
HYDRAULIC QUICK-CONNECT COUPLERS**



**Z17 - 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 Fig. 92 for related components.

**Z17 - COMPACT EXCAVATOR  
NOTES**

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138111	25	11	197795	135	24	50280792	175	1
138111	63	15	197795	139	31	50280793	57	15
138111	71	18	197813	133	11	50280793	65	4
138111	103	7	197813	135	11	50280797	5	35
138111	113	37	197813	137	11	50280798	159	4
138116	111	57	197813	137	24	50280799	33	1
138133	87	9	197813	139	12	50280802	21	13
138143	29	5	197813	143	10	50280802	153	12
138515	37	6	197816	111	69	50280810	57	6
138515	57	19	197868	5	36	50280810	57	9
138515	89	8	203218	21	15	50280810	65	2
138515	145	9	203218	23	1	50280811	115	11
167754	1	20	203219	23	3	50280811	119	7
167755	1	22	203220	23	4	50280813	113	34
167788	1	19	203221	23	8	50280813	115	28
167789	1	21	203225	23	15	50280813	117	28
176152	65	12	203226	23	18	50280813	153	3
183963	5	4	203227	23	19	50280813	161	3
184043	5	5	270811	1	13	50280813	169	10
184467	1	1	271083	189	4	50280813	175	5
184472	1	3	271084	189	3	50280814	169	23
184473	1	4	272806	1	11	50280815	169	26
184474	1	5	272809	1	12	50280823	169	13
184475	1	6	272812	1	14	50280849	145	2
185693	23	23	272813	1	15	50280854	19	10
186483	21	14	272814	1	16	50280876	157	3
186593	89	9	272815	1	17	50280889	91	12
186604	47	6	272816	1	18	50280889	105	12
186604	49	6	50280727	11	4	50280894	65	10
186610	129	7	50280728	17	12	50280899	179	2
186619	87	6	50280729	17	34	50280900	179	3
186619	87	7	50280735	27	17	50280905	175	3
186619	87	8	50280774	25	6	50280917	5	15
186626	27	31	50280778	153	6	50280919	169	15
186626	27	33	50280782	99	1	50280921	17	28
186626	31	6	50280782	101	2	50280921	21	1
188712	15	12	50280783	43	16	50280929	35	3
188748	107	8	50280783	45	16	50280930	35	4
195348	1	10	50280792	169	1	50280931	35	5

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50281018	5	14
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50281024	7	5
50281024	91	2B
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50281025	107	9D
50281027	5	22
50281027	7	7
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50281038	5	31
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50281061	81	4
50281071	65	9
50281103	151	8
50281104	151	9
50281106	173	2
50281130	5	38
50281136	85	1
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50281426	145	1
50281427	145	7
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50281458	5	12
50281459	5	13
50281490	169	16
50281493	177	4
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50282347	21	18
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50282352	159	5
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50282353	31	4
50282361	105	2
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50282379	13	9
50282379	27	19
50282380	25	10
50282380	57	20
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50282385	29	4	50282438	175	8	50282498	113	39
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50282389	81	9	50282447	173	5	50282499	117	32
50282392	17	36	50282452	43	13	50282499	119	25
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50285656	127	1
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50285676	151	1
50285677	151	2
50285678	151	3
50285679	131	1
50285680	143	1
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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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