

GEHL®

Form No.
50940082
Revision B
Dec. 2012

Model Z80

Compact Excavator



Parts Manual

INTRODUCTION

General

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

Parts Ordering Information

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

Torque Charts

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

Illustrations and Parts Lists

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

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

Serial Number Locations and Information

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

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

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

INTRODUCTION

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

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

Reference Number Sequencing in Parts Lists

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

FOR EXAMPLE (Ref. Nos.):

5 = Original version/configuration of a part or assembly

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

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

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

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

INTRODUCTION

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

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

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

TABLE OF CONTENTS

Introduction.....	i	Fig. 35 - Control Equipment (Travel) ..	70
Compact Excavator.....	1	Fig. 36 - Control Equipment (Blade) ...	72
Special Tools, Paint	1	Fig. 37 - Control Equipment (Swing) ..	74
Figure Index (1) - Main Parts	2	Fig. 38 - Control Equipment (Lock Lever & Lever Stand).....	76
Figure Index (2) - Hydraulic Section.....	3	Fig. 39 - Control Equipment (Pedal Stand)	78
Fig. 1 - Label.....	4	Fig. 40 - Arm Rest	80
Fig. 3 - Safety Label	6	Fig. 41 - Track Frame	82
Fig. 4 - Muffler	8	Fig. 42 - Crawler Guard.....	84
Fig. 5 - Air Cleaner	10	Fig. 43 - Counterweight.....	86
Fig. 6 - Accelerator	12	Fig. 44 - Turning Frame.....	88
Fig. 7 - Engine Mount.....	14	Fig. 45 - Turning Bearing	90
Fig. 8 - Radiator	16	Fig. 46 - Cover (Fuel Tank Side).....	92
Fig. 9 - Radiator Mount	18	Fig. 48 - Cover (Center).....	94
Fig. 10 - Radiator Sub-Tank	20	Fig. 50 - Cover (Tail).....	96
Fig. 11 - Fuel Tank	22	Fig. 51 - Cover (Seat Mount : A/C).....	98
Fig. 12 - Fuel Line	24	Fig. 52 - Cover (Seat Mount).....	100
Fig. 13 - Electric Part (Engine).....	26	Fig. 53 - Cover (Seat Mount : Rear) ..	102
Fig. 14 - Electric Part (Control Valve Plate)	28	Fig. 54 - Cover (Travel Frame).....	104
Fig. 15 - Electric Part (Battery)	30	Fig. 55 - Cover (Turning Frame)	106
Fig. 16 - Electric Part (Starting Switch).....	32	Fig. 56 - Frame Guard.....	108
Fig. 17 - Electric Part (Air Conditioner).....	34	Fig. 57 - Floor Mat.....	110
Fig. 18 - Electric Part (Switch Box : Quick Coupler)	36	Fig. 58 - Instrument Panel.....	112
Fig. 19 - Electric Part (Seat Mount).....	38	Fig. 59 - Lever Box.....	114
Fig. 20 - Travel Alarm	40	Fig. 60 - Side Cover	116
Fig. 21 - Electric Part (Work Lamp)....	42	Seat.....	118
Fig. 22 - Electric Part (Indicator Box) ..	44	Fig. 61 - Seat Slide.....	120
Fig. 23 - Air Conditioner (Cabin Related).....	46	Fig. 62 - Seat Mount	122
Fig. 24 - Air Conditioner (Piping)	48	Fig. 63 - Bonnet (Upper, Front).....	124
Fig. 25 - Air Conditioner (Unit : Inner Parts).....	50	Fig. 64 - Bonnet (Rear).....	126
Fig. 26 - Air Conditioner (Engine Related).....	52	Fig. 66 - Bonnet (Side : Left).....	128
Fig. 27 - Air Conditioner (Condenser Related).....	54	Fig. 68 - Bonnet (Side : Right)	130
Fig. 28 - Air Conditioner (Condenser : Inner Parts)	56	Fig. 70 - Cabin Mount (Bracket)	132
Fig. 29 - Sprocket.....	58	Fig. 71 - Cabin Mount (Antivibration Mount)	134
Fig. 30 - Idler & Adjust	60	Fig. 72 - Cabin (Body).....	136
Fig. 31 - Track Roller	62	Fig. 73 - Cabin (Door)	138
Fig. 32 - Carrier Roller	64	Fig. 74 - Cabin (Front Window : 1) ...	140
Fig. 33 - Crawler Adjust	66	Fig. 75 - Cabin (Front Window : 2) ...	142
Fig. 34 - Crawler	68	Fig. 76 - Cabin (Window Sash & Lower Glass).....	144
		Fig. 77 - Cabin (Electric)	146
		Fig. 78 - Cabin (Washer Tank).....	148
		Fig. 79 - Rear View Mirror.....	150
		Fig. 80 - Cabin Accessory.....	152
		Fig. 81 - Side Mirror.....	154

TABLE OF CONTENTS

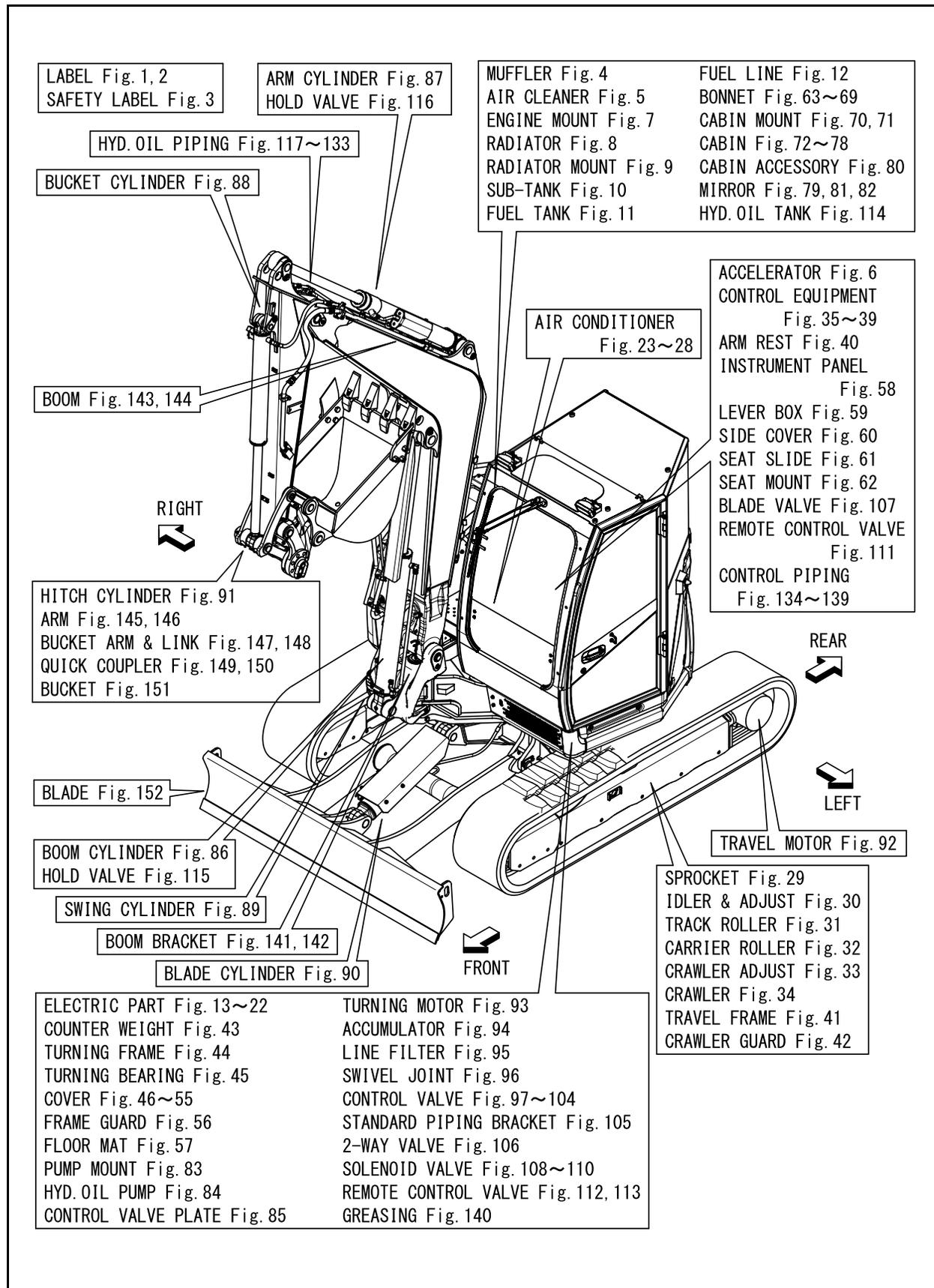
Fig. 83 - Pump Mount.....	156	Fig. 123 - Hyd. Oil Piping (Control Valve - Swivel Joint).....	234
Fig. 84 - Hyd. Oil Pump	158	Fig. 124 - Hyd. Oil Piping (Track Frame).....	236
Fig. 85 - Control Valve Plate.....	160	Fig. 125 - Hyd. Oil Piping (Boom)....	238
Fig. 86 - Boom Cylinder	162	Fig. 127 - Hyd. Oil Piping (P.T.O. : Frame End)	240
Fig. 87 - Arm Cylinder	164	Fig. 128 - Hyd. Oil Piping (P.T.O. : Arm End)	242
Fig. 88 - Bucket Cylinder	166	Fig. 130 - Hyd. Oil Piping (Quick Coupler)	244
Fig. 89 - Swing Cylinder.....	168	Fig. 132 - Hyd. Oil Piping (Hold Valve).....	246
Fig. 90 - Blade Cylinder	170	Fig. 134 - Control Piping (Control Valve - Solenoid Valve).....	248
Fig. 91 - Hitch Cylinder.....	172	Fig. 135 - Control Piping (Control Valve - Piping Bracket).....	250
Fig. 92 - Travel Motor	174	Fig. 136 - Control Piping (Control Valve - 2-Way Valve)	252
Fig. 93 - Turning Motor.....	176	Fig. 137 - Control Piping (2-Way Valve - Remote Control Valve)	254
Fig. 94 - Accumulator.....	178	Fig. 138 - Control Piping (Travel, Swing Pedal).....	256
Fig. 95 - Line Filter.....	180	Fig. 139 - Control Piping (P.T.O.).....	258
Fig. 96 - Swivel Joint.....	182	Fig. 140 - Greasing	260
Fig. 97 - Control Valve (1/8).....	184	Fig. 141 - Boom Bracket.....	262
Fig. 98 - Control Valve (2/8).....	186	Fig. 143 - Boom	264
Fig. 99 - Control Valve (3/8).....	188	Fig. 145 - Arm	266
Fig. 100 - Control Valve (4/8).....	190	Fig. 147 - Bucket Arm & Link	268
Fig. 101 - Control Valve (5/8).....	192	Fig. 149 - Quick Coupler	270
Fig. 102 - Control Valve (6/8).....	194	Fig. 152 - Blade	272
Fig. 103 - Control Valve (7/8).....	196	Hydraulic Quick-Connect Couplers...	274
Fig. 104 - Control Valve (8/8).....	198	Index	277
Fig. 105 - Standard Piping Bracket....	200	Numerical Index	279
Fig. 106 - 2-Way Valve	202	Torque Charts	Inside Back Cover
Fig. 107 - Blade Valve.....	204		
Fig. 108 - Solenoid Valve (P.T.O.)....	206		
Fig. 109 - Solenoid Valve (Pilot).....	208		
Fig. 110 - Solenoid Valve (Quick Coupler)	210		
Fig. 111 - Remote Control Valve (Operation)	212		
Fig. 112 - Remote Control Valve (Travel)	214		
Fig. 113 - Remote Control Valve (Swing).....	216		
Fig. 114 - Hyd. Oil Tank.....	218		
Fig. 115 - Hold Valve (Boom).....	220		
Fig. 116 - Hold Valve (Arm)	222		
Fig. 117 - Hyd. Oil Piping (Pump - Control Valve - Oil Cooler).....	224		
Fig. 118 - Hyd.Oil Piping (Tank-Pump, Swing Cylinder).....	226		
Fig. 119 - Hyd. Oil Piping (Control Valve - Turning Motor).....	228		
Fig. 120 - Hyd. Oil Piping (Control Valve : Fitting).....	230		
Fig. 121 - Hyd. Oil Piping (Control Valve - Boom, Turning Motor, Tank).....	232		

Z80 - 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 INJEC- TOR PUMP TIMING KIT	1
	11	272806	HYDRAULIC OIL ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
	12	272809	ENGINE OIL ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
	13	270811	FUEL ANALYSIS KIT (GEHL)	1
	14	272812	COOLANT ANALYSIS KIT (GEHL) (use with appropriate pump and tubing)	Set of 10
	15	272813	FIELD TEST COOLANT STRIP (low level visual analysis)	1
	16	272814	OIL VACUUM PUMP (use with hydraulic oil and engine oil analy- sis kits)	1
	17	272815	COOLANT VACUUM PUMP (use with coolant analysis kit)	1
	18	272816	1/4" PLASTIC TUBING, 100' (bulk roll, use with hydraulic oil, engine oil and coolant analysis kits)	1
	19	167788	GEHL 4-PK QT EXCAVATOR CONSTRUCTION YELLOW	1
	20	167754	GEHL 4-PK QT GUNMETAL GRAY	1
	21	167789	GEHL 6-PK SPRAY EXCAVATOR CONSTRUCTION YELLOW, 12.8 OZ.	1
	22	167755	GEHL 6-PK SPRAY GUNMETAL GRAY, 12.8 OZ.	1

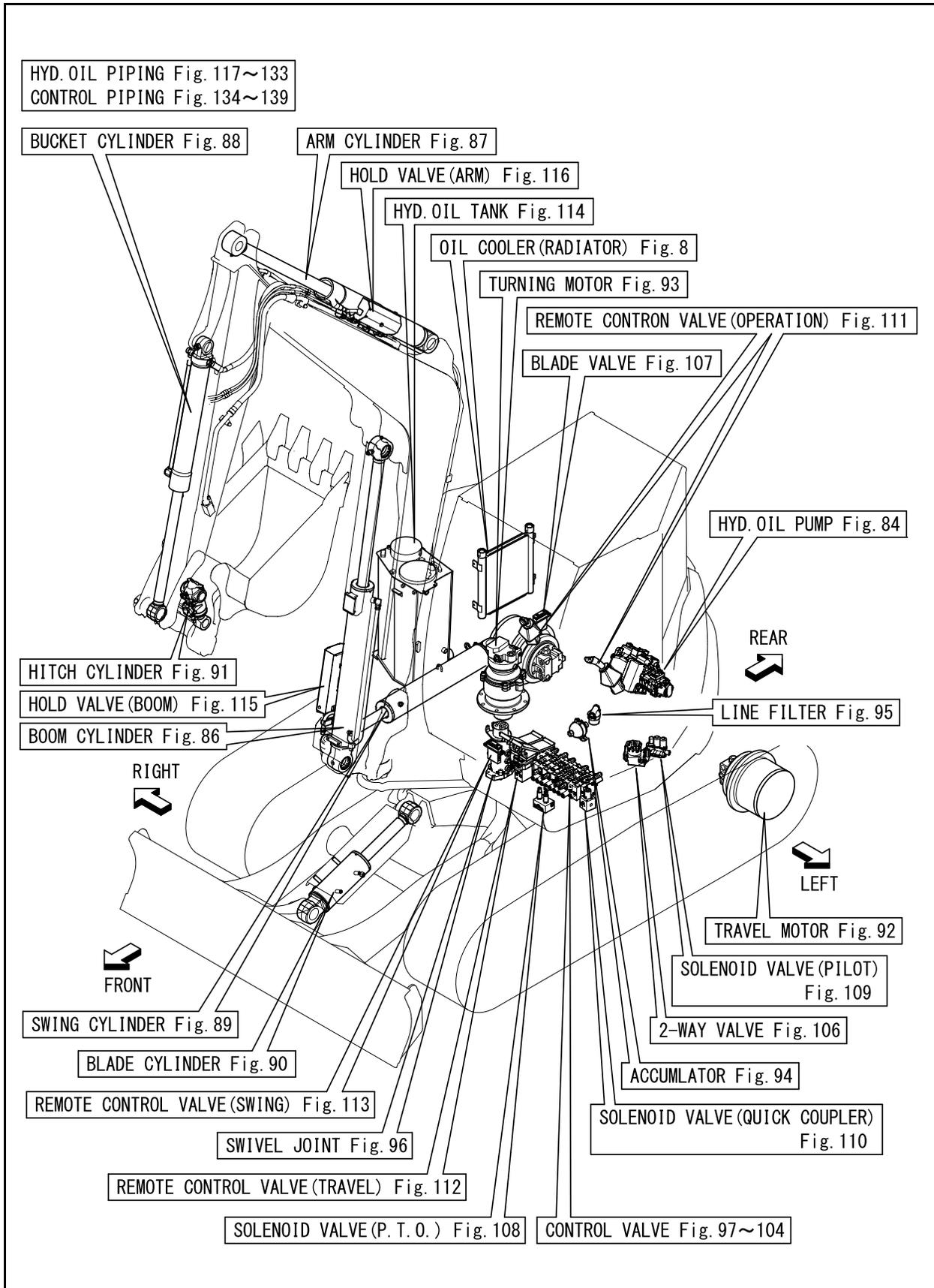
Z80 - COMPACT EXCAVATOR

FIGURE INDEX (1) - MAIN PARTS



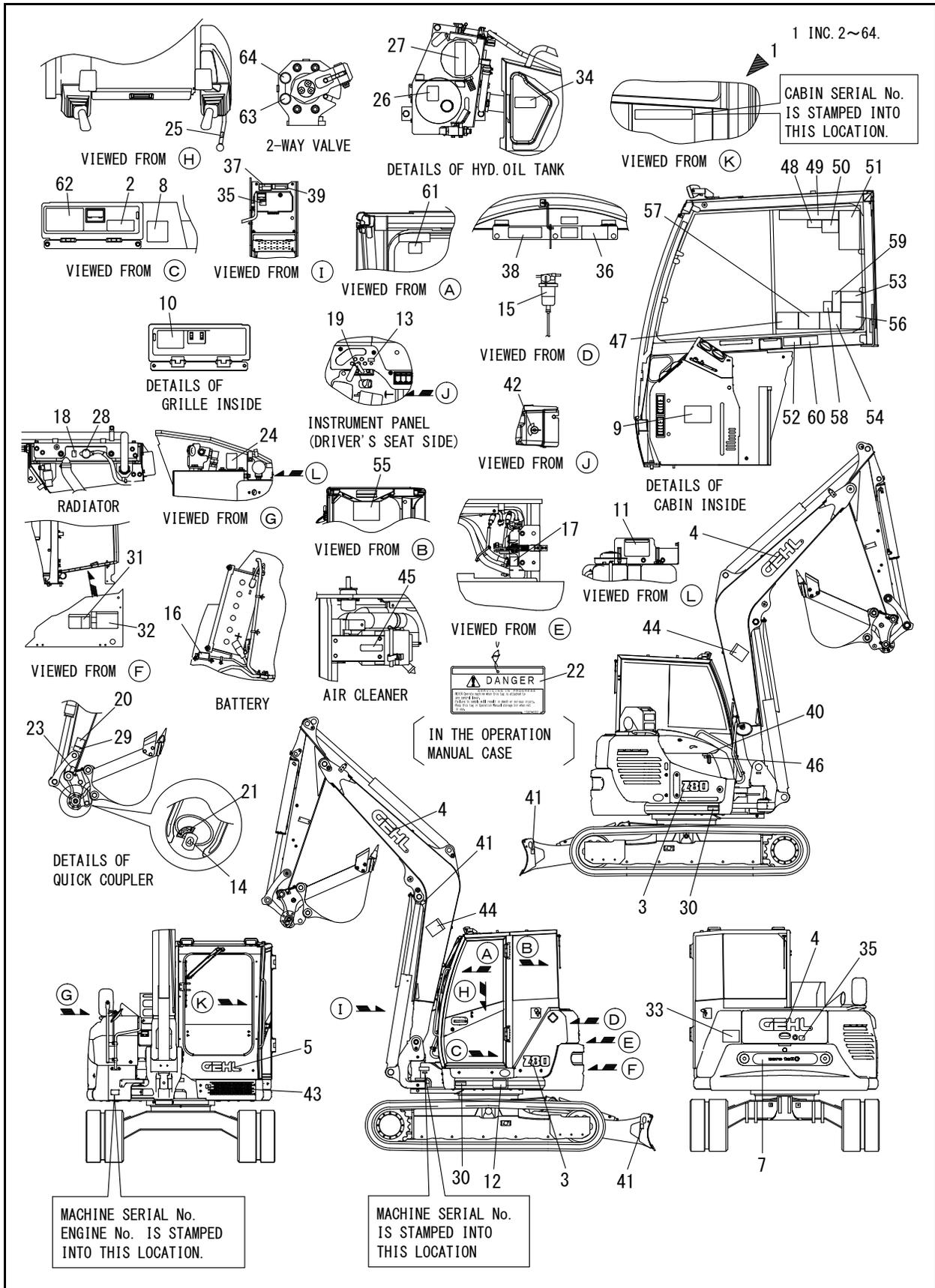
Z80 - COMPACT EXCAVATOR

FIGURE INDEX (2) - HYDRAULIC SECTION



Z80 - COMPACT EXCAVATOR

FIG. 1 - LABEL



Z80 - COMPACT EXCAVATOR

FIG. 1 - LABEL

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
2	50282085	LABEL, SPEC US	1	51	50281178	LABEL, WARNING HITCH	1
3	50300845	DECAL/Z80	2	52	50281019	LABEL, MANUAL US	1
4	184069	DECAL/GEHL 6.75 X 28.65	3	53	50281020	LABEL,SLOPE US	1
5	102027	DECAL/ GEHL 5.00 X 21.22 (WHITE)	1	54	50281022	LABEL, TRANSPORT US	1
7	50300781	DECAL/ZERO TAIL (LARGE)	1	55	50282089	LABEL,LIFT Q	1
8	50281148	LABEL,ADJUST CRAWLER	1	56	50281025	LABEL, NEUTRAL US	1
9	50282086	LABEL,OIL & WATER US	1	57	50281030	LABEL, STEERING US	1
10	50282087	LABEL,FUSE US	1	58	50281031	LABEL, ROPS US	1
11	50281543	LABEL,GREASING US	1	59	50281032	LABEL, SEAT BELT US	1
12	50281172	LABEL, SUPPORT US	1	60	50281033	LABEL, LEVER LOCK US	1
13	50281500	LABEL,WARNING	1	61	50281036	LABEL, WINDOW US	1
14	50281361	LABEL	1	62	50281037	LABEL, 2-WAY US	1
15	50281407	LABEL	1	63	50281038	LABEL	1
16	50281545	LABEL FL,US	1	64	50281039	LABEL	1
17	50281458	LABEL, SUB-TANK US	1				
18	50281459	LABEL,ANTI-FREEZING	1				
19	50281547	LABEL,ACCELERATOR	1				
20	50281173	LABEL,OPERATION PIN	1				
21	50281130	LABEL,LOCK	1				
22	50281018	TAG ASSY, CAUTION	1				
23	50281176	LABEL, FINGER US	1				
24	50281548	LABEL,PTO SELECT	1				
25	50280917	LABEL,LOCK	1				
26	50281149	LABEL,HYD.OIL US	1				
27	50281021	LABEL, HYD.OIL TANK	1				
28	50281147	LABEL	1				
29	50281181	LABEL,LOCK PIN(US	1				
30	50281023	LABEL, GREASE CYL.	2				
31	50281551	LABEL,BATTERY COVER	1				
32	50281024	LABEL, BATTERY US	1				
33	50281026	LABEL,SWING AREA US	1				
34	50281027	LABEL, RADIATOR US	1				
35	50281028	LABEL, ENG,COVER US	2				
36	50281425	LABEL, ENG ROOM	1				
37	50281425	LABEL, ENG ROOM	1				
38	50281029	LABEL, MUFFLER US	1				
39	50281029	LABEL, MUFFLER US	1				
40	50281034	LABEL, FUEL US	1				
41	50281035	LABEL, HOOK US	3				
42	50281498	LABEL,STARTER	1				
43	50280846	LABEL, GREASE	1				
44	50280924	LABEL, BOOM US	2				
45	50280797	LABEL, AIR CLEANER	1				
46	197868	LABEL/FUEL OIL NOTI	1				
47	50281546	LABEL,OPERATION	1				
48	50281174	LABEL, PIN US	1				
49	50281175	LABEL,OPERATION Q US	1				
50	50281177	LABEL, SAND US	1				

Z80 - COMPACT EXCAVATOR

FIG. 3 - SAFETY LABEL

1

WARNING

ALL OPERATORS MUST GET ON THE EXCAVATOR SAFELY. ALWAYS USE THE LADDER TO GET ON OR OFF THE EXCAVATOR. NEVER CLIMB ON OR OFF THE EXCAVATOR WHILE IT IS IN MOTION. NEVER CLIMB ON OR OFF THE EXCAVATOR WHILE THE HOISTING SYSTEM IS OPERATING. NEVER CLIMB ON OR OFF THE EXCAVATOR WHILE THE EXCAVATOR IS IN A POSITION WHERE IT COULD FALL OR TIP OVER. NEVER CLIMB ON OR OFF THE EXCAVATOR WHILE THE EXCAVATOR IS IN A POSITION WHERE IT COULD BE DAMAGED OR WHERE IT COULD CAUSE DAMAGE TO OTHER EQUIPMENT.

2

CAUTION

CHECK COOLANT LEVELS. Before starting a cold engine, check engine coolant level in pressure tank. If low, add coolant. Do not mark with engine coolant.

3

CAUTION

Be aware of what is under you.

4

DANGER

DO NOT OPERATE THE EXCAVATOR ON SLOPES OR IN AREAS WHERE THE EXCAVATOR IS LIKELY TO TIP OVER. NEVER OPERATE THE EXCAVATOR ON SLOPES OR IN AREAS WHERE THE EXCAVATOR IS LIKELY TO TIP OVER. NEVER OPERATE THE EXCAVATOR ON SLOPES OR IN AREAS WHERE THE EXCAVATOR IS LIKELY TO TIP OVER.

5

WARNING

DO NOT OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR.

6

WARNING

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8

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9

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10

DANGER

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11

DANGER

CRUSH HAZARD! Stay clear of swing range of Excavator implements and machine tail.

12

WARNING

DO NOT OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR.

13

WARNING

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14, 15

WARNING

CRUSH HAZARD! NEVER suspend load with quick coupler hook. Load could fall.

16, 17

WARNING

DO NOT OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR.

18

WARNING

CRUSH HAZARD! STAY CLEAR OF AREA! Failure to comply could result in death or serious injury.

19

CAUTION

Service check and replace air cleaner filter for correct operation. Failure to comply may result in equipment damage.

20

Pull out

CAUTION

DO NOT DAMAGE LOCK PIN. Pull lock out when changing attachment.

21

CAUTION

Be sure to remove earb and caps pulled in quick coupler. This step damage hydraulic hoses.

22

WARNING

CRUSH HAZARD! NEVER suspend load with quick coupler hook. Load could fall.

23

WARNING

DO NOT OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR. NEVER OPERATE THE EXCAVATOR WITH YOUR HANDS OR FEET ON THE EXCAVATOR.

24

WARNING

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25

WARNING

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26

WARNING

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27

WARNING

PROPER OPENING PROCEDURE: Always use correct opening procedure. Failure to comply could result in equipment damage.

28

WARNING

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29

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30

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31

WARNING

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32

WARNING

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33

WARNING

TIP-OVER HAZARD! ALWAYS park on solid, level ground and place attachment on ground before operating quick coupler. Failure to comply could result in death or serious injury.

33

VIEWED FROM **(C)**

3

RADIATOR

16

14

VIEWED FROM **(D)**

15

17

13

VIEWED FROM **(G)**

9

10

VIEWED FROM **(B)**

26

VIEWED FROM **(B)**

28

20

21

22

DETAILS OF CABIN INSIDE

6

12

DETAILS OF HYD. OIL TANK

32

VIEWED FROM **(A)**

18

19

AIR CLEANER

23

31

29

25

VIEWED FROM **(E)**

5

7

18

VIEWED FROM **(F)**

11

13

VIEWED FROM **(D)**

8

1

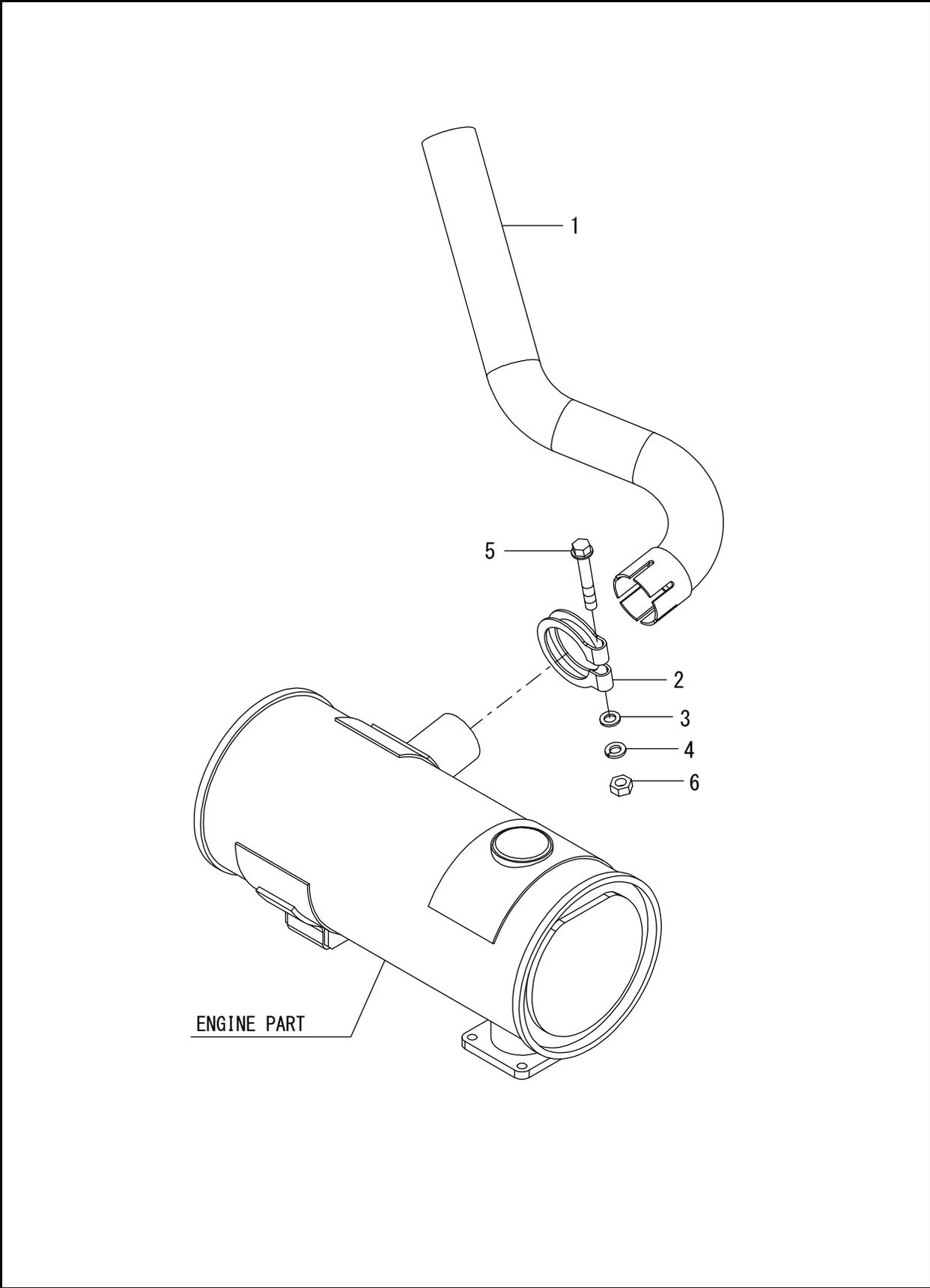
VIEWED FROM **(G)**

Z80 - COMPACT EXCAVATOR
FIG. 3 - SAFETY LABEL

Ref.	No.	Part No.	Description	Qty.
	1	50281172	LABEL, SUPPORT US	1
	2	50281458	LABEL, SUB-TANK US	1
	3	50281459	LABEL,ANTI-FREEZING	1
	4	50281018	TAG ASSY, CAUTION	1
	5	50281176	LABEL, FINGER US	1
	6	50281021	LABEL, HYD.OIL TANK	1
	7	50281181	LABEL,LOCK PIN(US	1
	8	50281023	LABEL, GREASE CYL.	2
	9	50281551	LABEL,BATTERY COVER	1
	10	50281024	LABEL, BATTERY US	1
	11	50281026	LABEL,SWING AREA US	1
	12	50281027	LABEL, RADIATOR US	1
	13	50281028	LABEL, ENG,COVER US	2
	14	50281425	LABEL, ENG ROOM	1
	15	50281425	LABEL, ENG ROOM	1
	16	50281029	LABEL, MUFFLER US	1
	17	50281029	LABEL, MUFFLER US	1
	18	50280924	LABEL, BOOM US	2
	19	50280797	LABEL, AIR CLEANER	1
	20	50281174	LABEL, PIN US	1
	21	50281177	LABEL, SAND US	1
	22	50281178	LABEL, WARNING HITCH	1
	23	50281019	LABEL, MANUAL US	1
	24	50281020	LABEL,SLOPE US	1
	25	50281022	LABEL, TRANSPORT US	1
	26	50282089	LABEL,LIFT Q	1
	27	50281025	LABEL, NEUTRAL US	1
	28	50281030	LABEL, STEERING US	1
	29	50281031	LABEL, ROPS US	1
	30	50281032	LABEL, SEAT BELT US	1
	31	50281033	LABEL, LEVER LOCK US	1
	32	50281036	LABEL, WINDOW US	1
	33	50281037	LABEL, 2-WAY US	1

Z80 - COMPACT EXCAVATOR

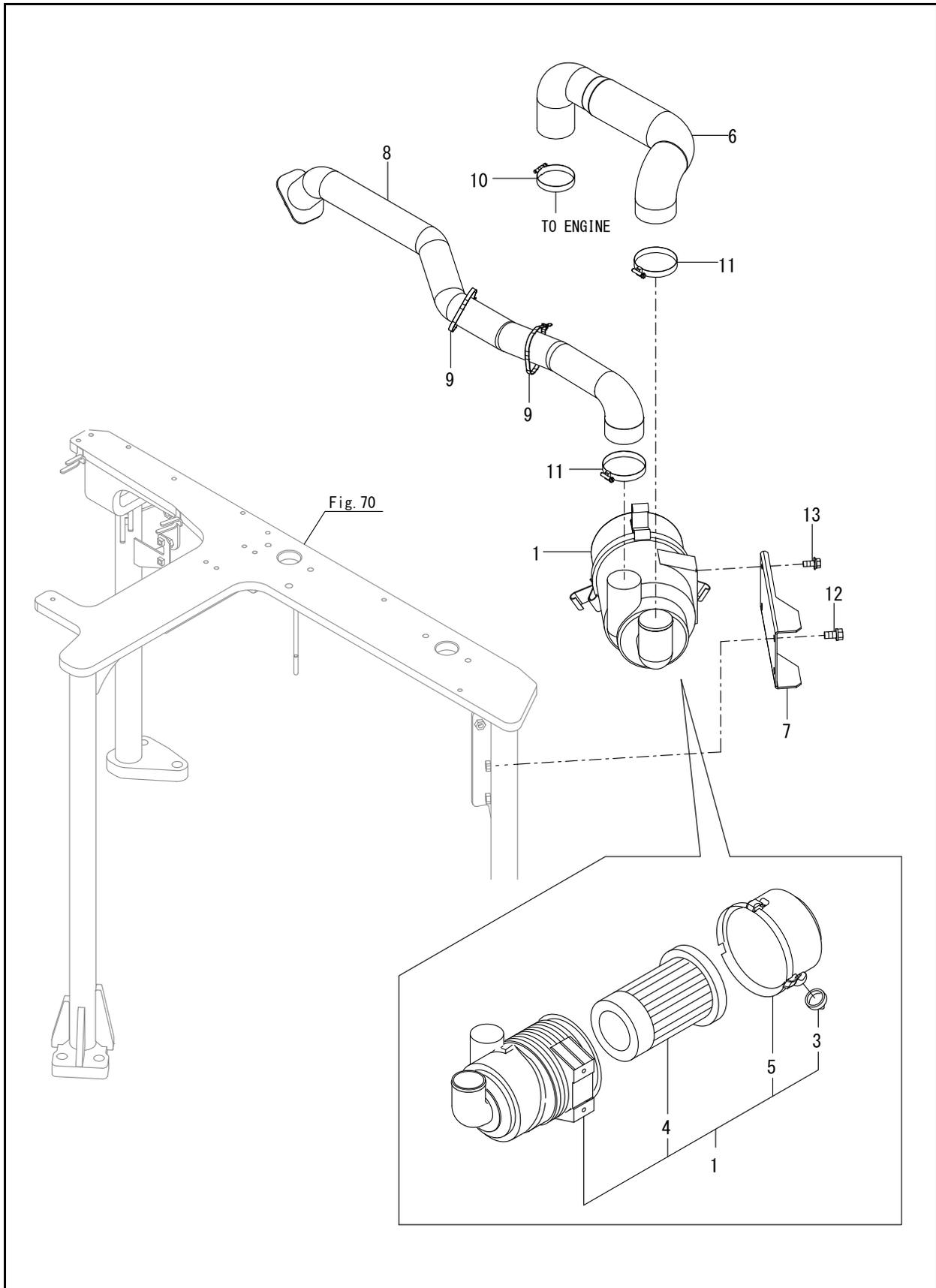
FIG. 4 - MUFFLER



Z80 - COMPACT EXCAVATOR
FIG. 4 - MUFFLER

Ref.	No.	Part No.	Description	Qty.
	1	50282094	PIPE CMP,EXHAUST	1
	2	50280925	CLAMP	1
	3	50282377	WASHER 10	1
	4	50282393	SPRING WASHER 10	1
	5	50282561	BOLT M10X 65 PLATED	1
	6	50282594	NUT M10	1

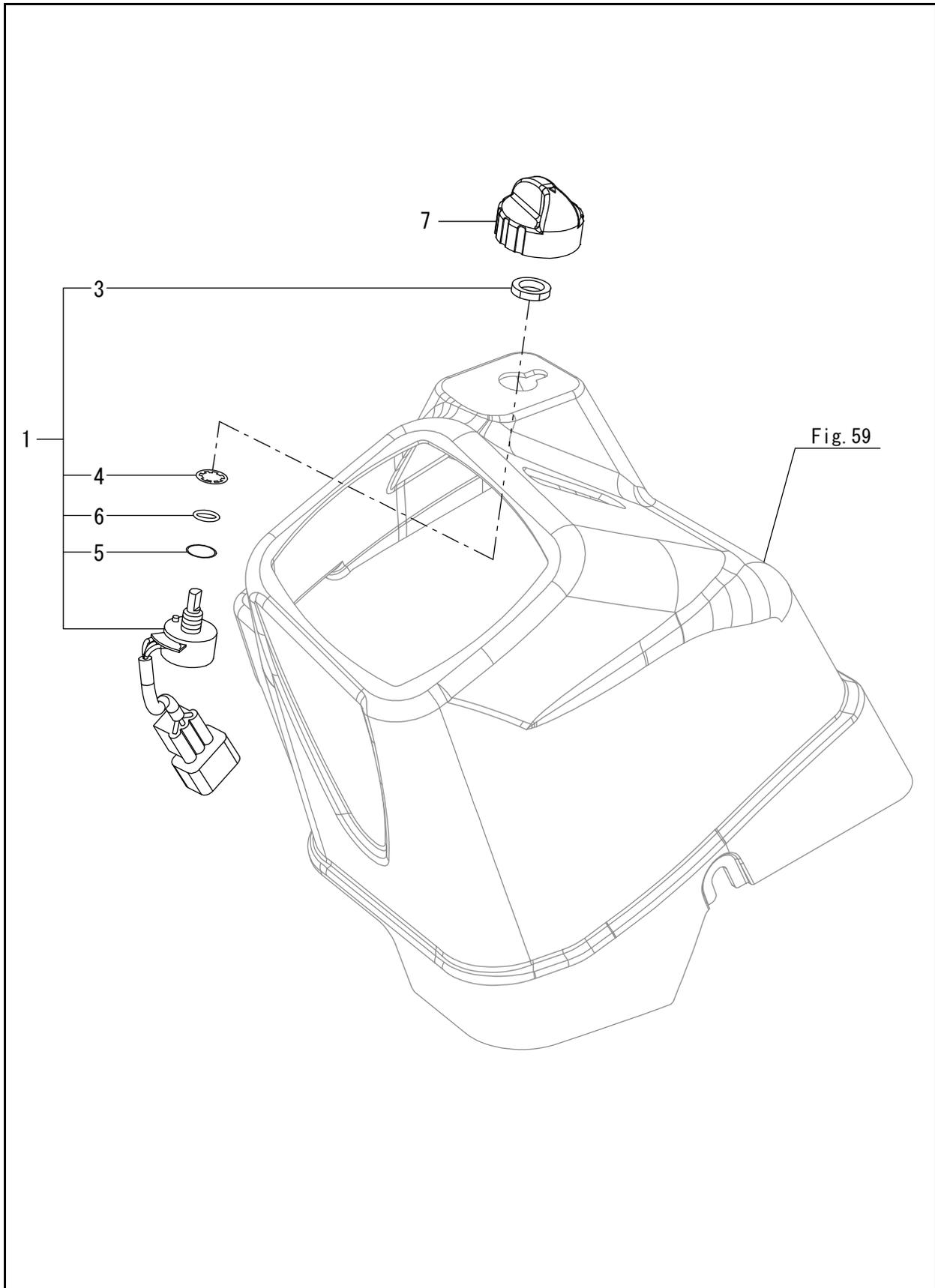
Z80 - COMPACT EXCAVATOR
FIG. 5 - AIR CLEANER



Z80 - COMPACT EXCAVATOR
FIG. 5 - AIR CLEANER

Ref.	No.	Part No.	Description	Qty.
	1	50281065	AIR CLEANER ASSY	1
	3	50280727	VALVE, UNLOADER	1
	4	181878	AIR CLEANER/OUTER ELEMENT	1
	5	50280736	COVER ASSY	1
	6	50282095	HOSE B ASSY	1
	7	50281555	BRACKET,CLEANER (use with label 7A)	1
	7A	50280797	LABEL, AIR CLEANER (see Page 4)	1
	8	50282096	HOSE,AIR INTAKE	1
	9	50280791	CLAMP 350	2
	10	425-36133	CLAMP 70	1
	11	50282425	CLAMP 80	2
	12	50282515	BOLT W/WASHER M10X20	2
	13	50282534	BOLT M 8X 20	2

Z80 - COMPACT EXCAVATOR
FIG. 6 - ACCELERATOR

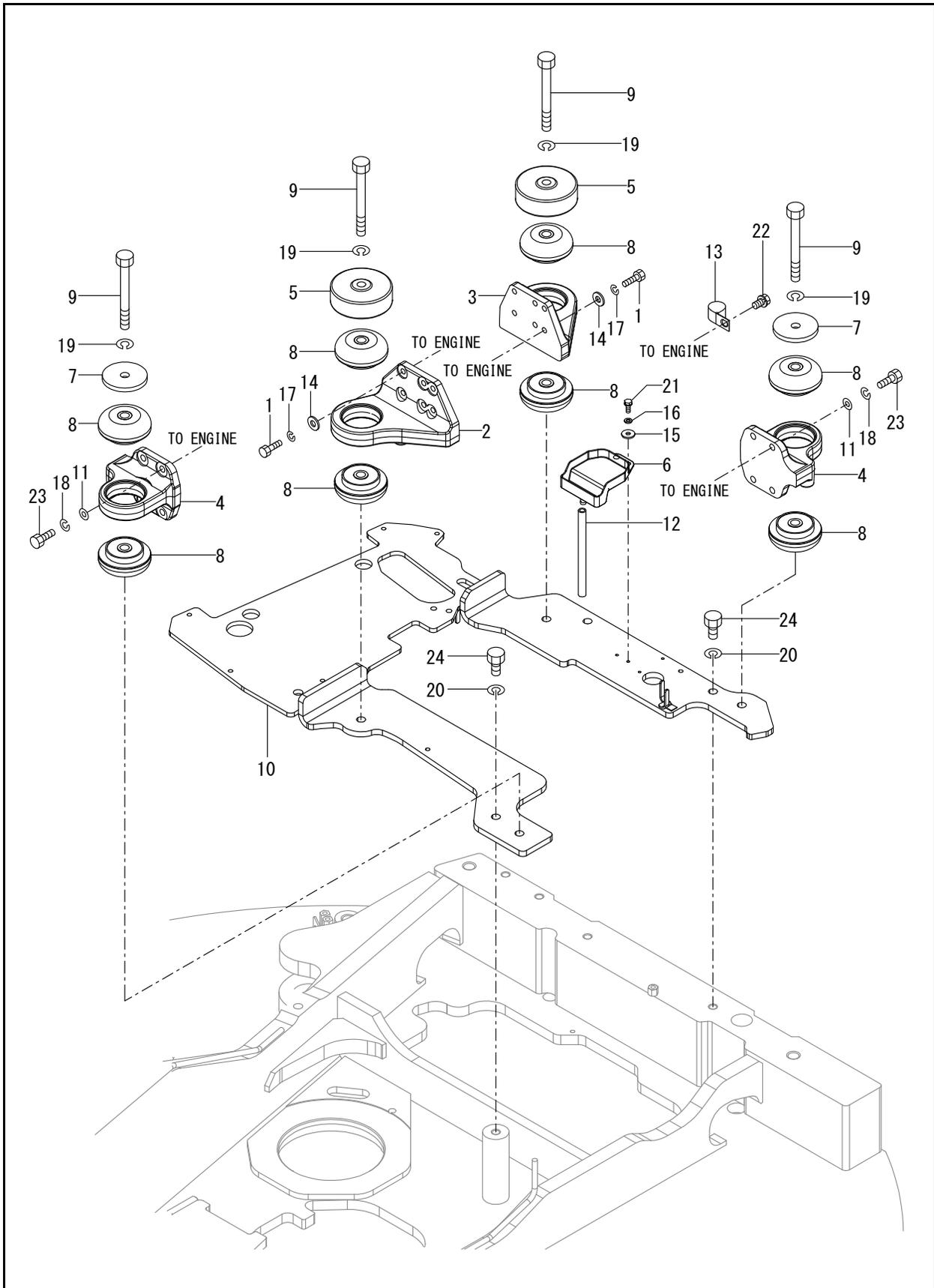


Z80 - COMPACT EXCAVATOR
FIG. 6 - ACCELERATOR

Ref.	No.	Part No.	Description	Qty.
	1	50281556	VOLUME, ACCEL ASSY	1
	3	50281558	NUT M9P0.75	1
	4	50281559	WASHER	1
	5	50281560	WATER PROOF RING	1
	6	50281561	O RING	1
	7	50281557	KNOB ASSY,ACCEL	1

Z80 - COMPACT EXCAVATOR

FIG. 7 - ENGINE MOUNT

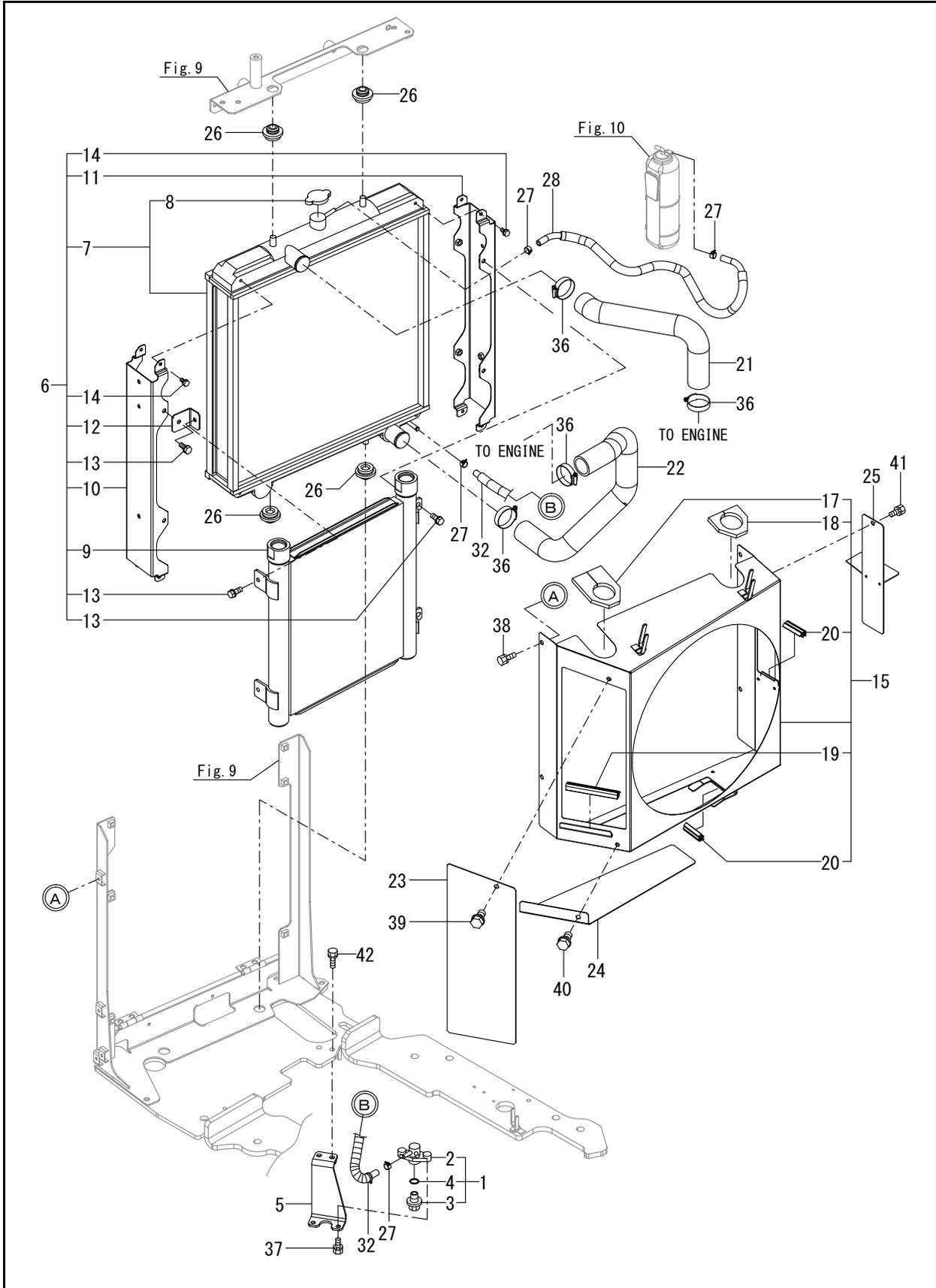


Z80 - COMPACT EXCAVATOR
FIG. 7 - ENGINE MOUNT

Ref.	No.	Part No.	Description	Qty.
	1	50281411	BOLT 10X35,11T	12
	2	50281562	BRACKET RR	1
	3	50281563	BRACKET RL	1
	4	50281564	BRACKET F	2
	5	50281565	STOPPER	2
	6	50282097	OIL SAUCER	1
	7	50280851	WASHER	2
	8	50280852	MOUNT,ENGINE	8
	9	50280853	BOLT M16X150	4
	10	50282098	PLATE ASSY,BASE	1
	11	50280893	WASHER	8
	12	50280801	HOSE, FUEL GAUGE	1
	13	50280774	CLAMP(B)	1
	14	50280803	SEAT, SPRING	12
	15	138110	WASHER	2
	16	50282385	WASHER 6	2
	17	50282393	SPRING WASHER 10	12
	18	425-34902	SPRING WASHER 12	8
	19	50282396	SPRING WASHER 16	4
	20	50282396	SPRING WASHER 16	4
	21	50282502	BOLT M 6X 16	2
	22	50282514	BOLT M10X 16	1
	23	50282551	BOLT M12X 35	8
	24	50282569	BOLT M16X 35 PLATED	4

Z80 - COMPACT EXCAVATOR

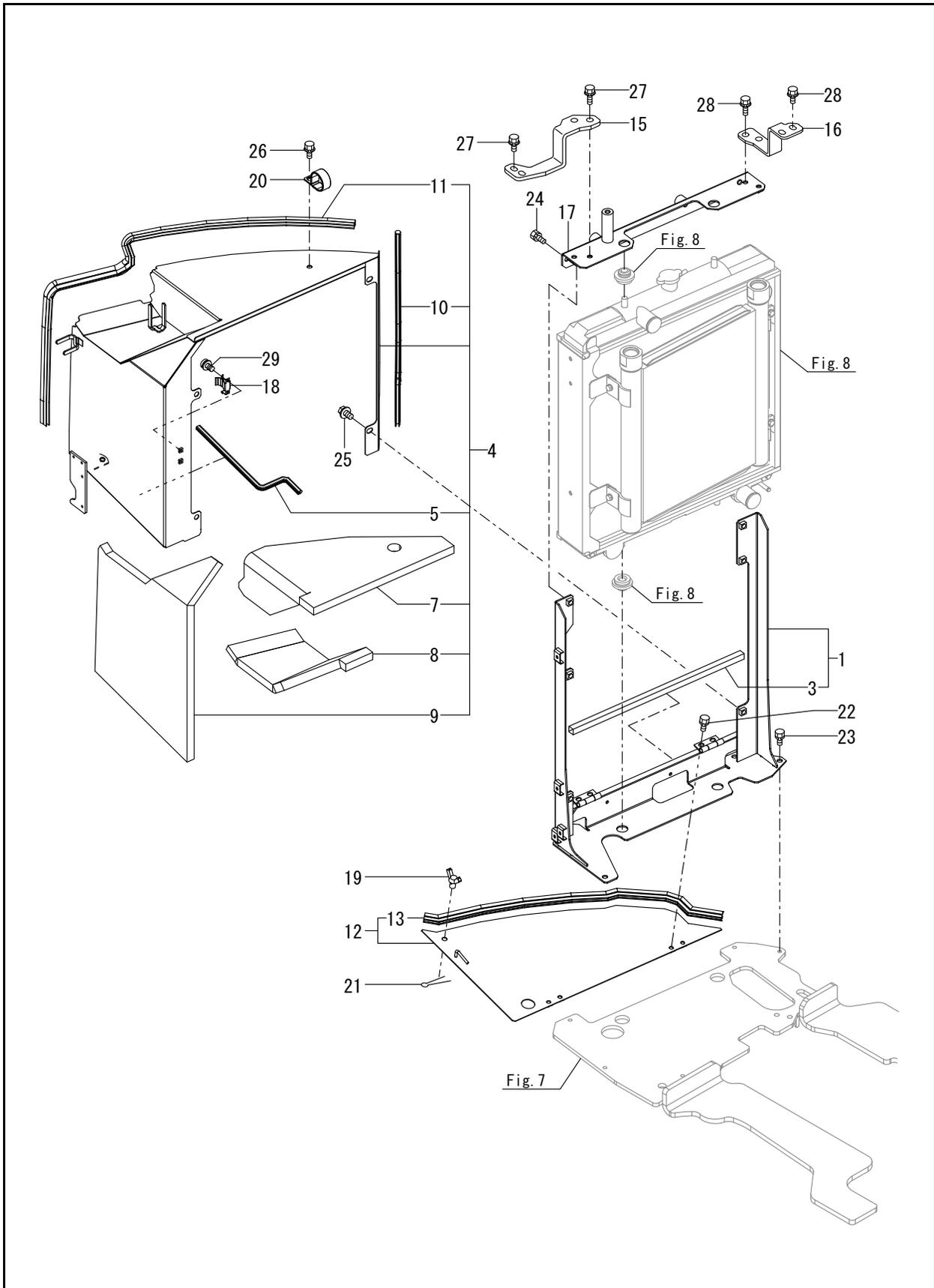
FIG. 8 - RADIATOR



Z80 - COMPACT EXCAVATOR
FIG. 8 - RADIATOR

Ref. No.	Part No.	Description	Qty.
1	50281046	COCK ASSY,2-WAY	1
2	50281047	BODY	1
3	50280728	PLUG	1
4	425-34744	O-RING 1A P-16.0	1
5	50281566	PLATE ASSY	1
6	50282099	RADIATOR ASSY	1
7	50282100	RADIATOR SUB ASSY (use with label 14A)	1
8	186470	CAP RADIATOR	1
9	50282101	OIL COOLER	1
10	50282102	SUPPORT ASSY	1
11	50282103	SUPPORT ASSY	1
12	50282104	BRACKET	2
13	50282105	BOLT M8	6
14	50282106	BOLT M6	8
14A	50281459	LABEL,ANTI-FREEZING (see Page 4)	1
15	50282108	SHROUD ASSY	1
17	50282109	EV A,SHROUD	1
18	50282110	EV B,SHROUD	1
19	50281138	RUBBER,SEAL 120	1
20	50281139	RUBBER,SEAL 55	2
21	50282111	CW-T,A	1
22	50282112	CW-T,B	1
23	50282119	COVER A,SHROUD	1
24	50282120	COVER B,SHROUD	1
25	50282121	COVER C ASSY,SHROUD	1
26	50282346	RUBBER, RADIATOR	4
27	425-34916	CLAMP 12	4
28	50282347	HOSE	1
32	50282345	PIPE ASSY, FUEL	1
36	50282431	CLIP, HOSE	4
37	50282506	BOLT W/WASHER M8X16	2
38	50282506	BOLT W/WASHER M8X16	4
39	50282506	BOLT W/WASHER M8X16	1
40	50282506	BOLT W/WASHER M8X16	1
41	50282506	BOLT W/WASHER M8X16	1
42	50282517	BOLT M10X 30	2

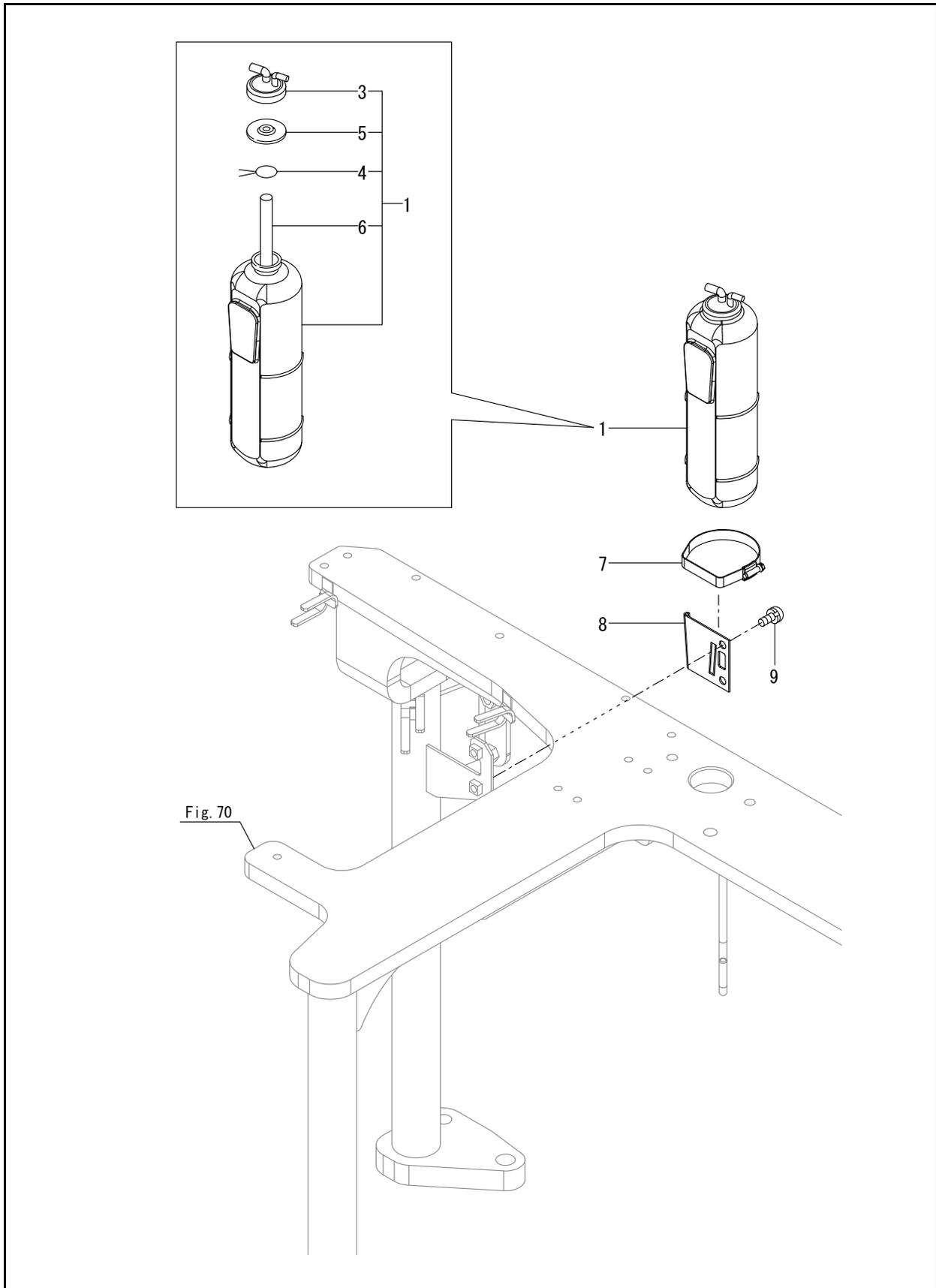
Z80 - COMPACT EXCAVATOR
FIG. 9 - RADIATOR MOUNT



**Z80 - COMPACT EXCAVATOR
FIG. 9 - RADIATOR MOUNT**

Ref. No.	Part No.	Description	Qty.
1	50282107	BRACKET ASSY,RAD	1
3	50281227	SEAL A,DUCT	1
4	50282113	DUCT ASSY,RADIATOR	1
5	50281342	RUBBER 350	1
7	50282114	EV A,DUCT	1
8	50282115	EV B,DUCT	1
9	50282116	EV C,DUCT	1
10	50282117	SEAL 510	1
11	50281667	SEAL 1130	1
12	50282118	COVER ASSY,DUCT (use with labels 14A, 14B)	1
13	50281567	SEAL 710	1
14A	50281551	LABEL,BATTERY COVER (see Page 4)	1
14B	50281024	LABEL, BATTERY US (see Page 4)	1
15	50282122	STAY A,RAD	1
16	50282123	STAY B,RAD	1
17	50282124	BRACKET ASSY,RAD U	1
18	50282360	HOLDER	1
19	50280817	WING BOLT,M10X20	1
20	50280827	PLATE, CLAMP	1
21	50282420	COTTER PIN 3.2X20	1
22	50282506	BOLT W/WASHER M8X16	4
23	50282515	BOLT W/WASHER M10X20	4
24	50282515	BOLT W/WASHER M10X20	2
25	50282538	BOLT M10X 20	4
26	50282538	BOLT M10X 20	1
27	50282539	BOLT 10X25 W/PLW+SPW	4
28	50282539	BOLT 10X25 W/PLW+SPW	4
29	50282543	SCREW M 5X 10	2

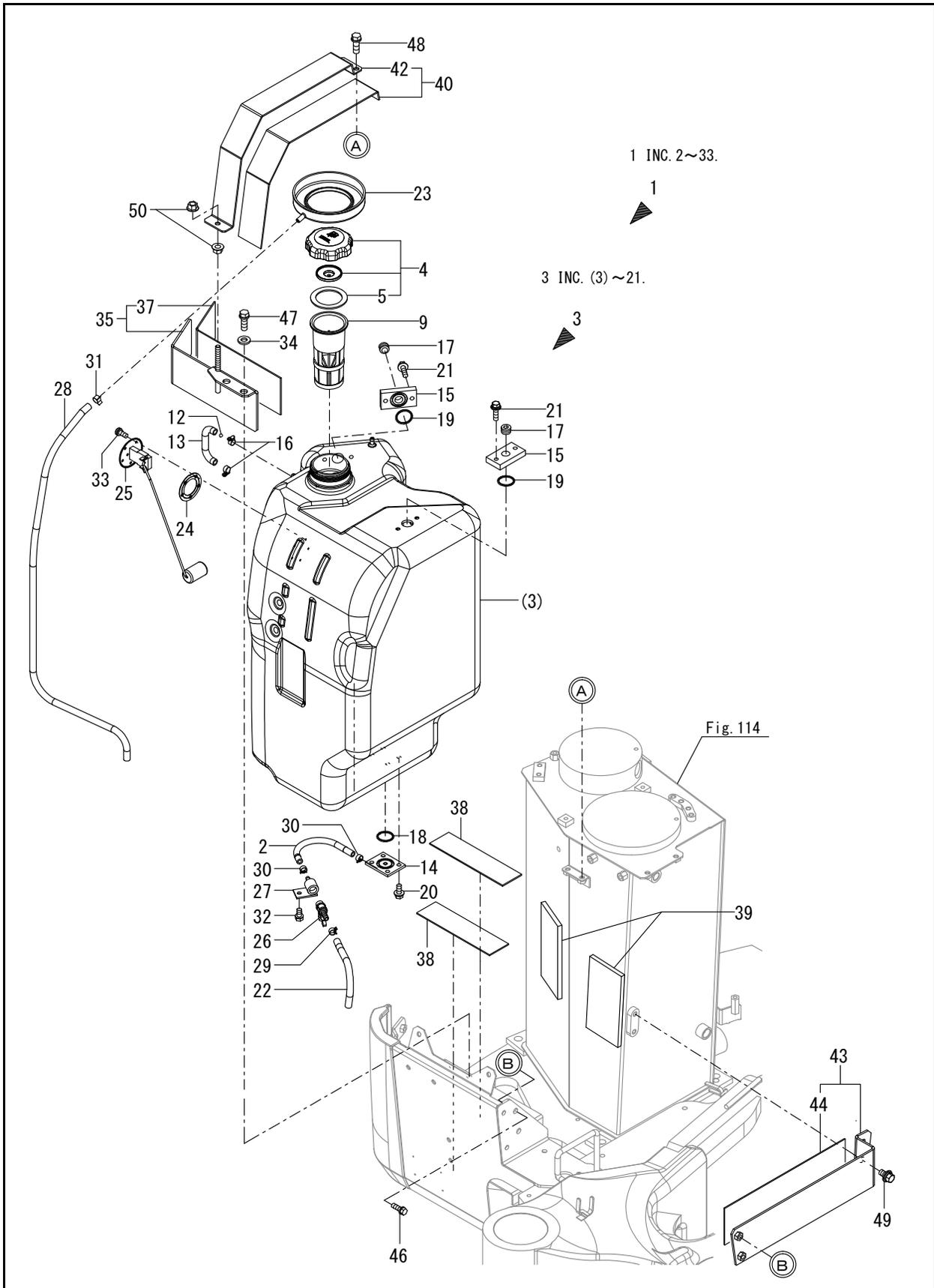
Z80 - COMPACT EXCAVATOR
FIG. 10 - RADIATOR SUB-TANK



Z80 - COMPACT EXCAVATOR
FIG. 10 - RADIATOR SUB-TANK

Ref.	No.	Part No.	Description	Qty.
	1	50280743	SUB-TANK ASSY (use with label 6A)	1
	3	186359	CAP	1
	4	186461	CLAMP	1
	5	186361	GASKET	1
	6	50282436	HOSE 7X 225	1
	6A	50281458	LABEL, SUB-TANK US (see Page 4)	1
	7	425-36235	BAND	1
	8	50280729	BRACKET, SUB-TANK	1
	9	50282541	SCREW M 8X 16	2

Z80 - COMPACT EXCAVATOR
FIG. 11 - FUEL TANK

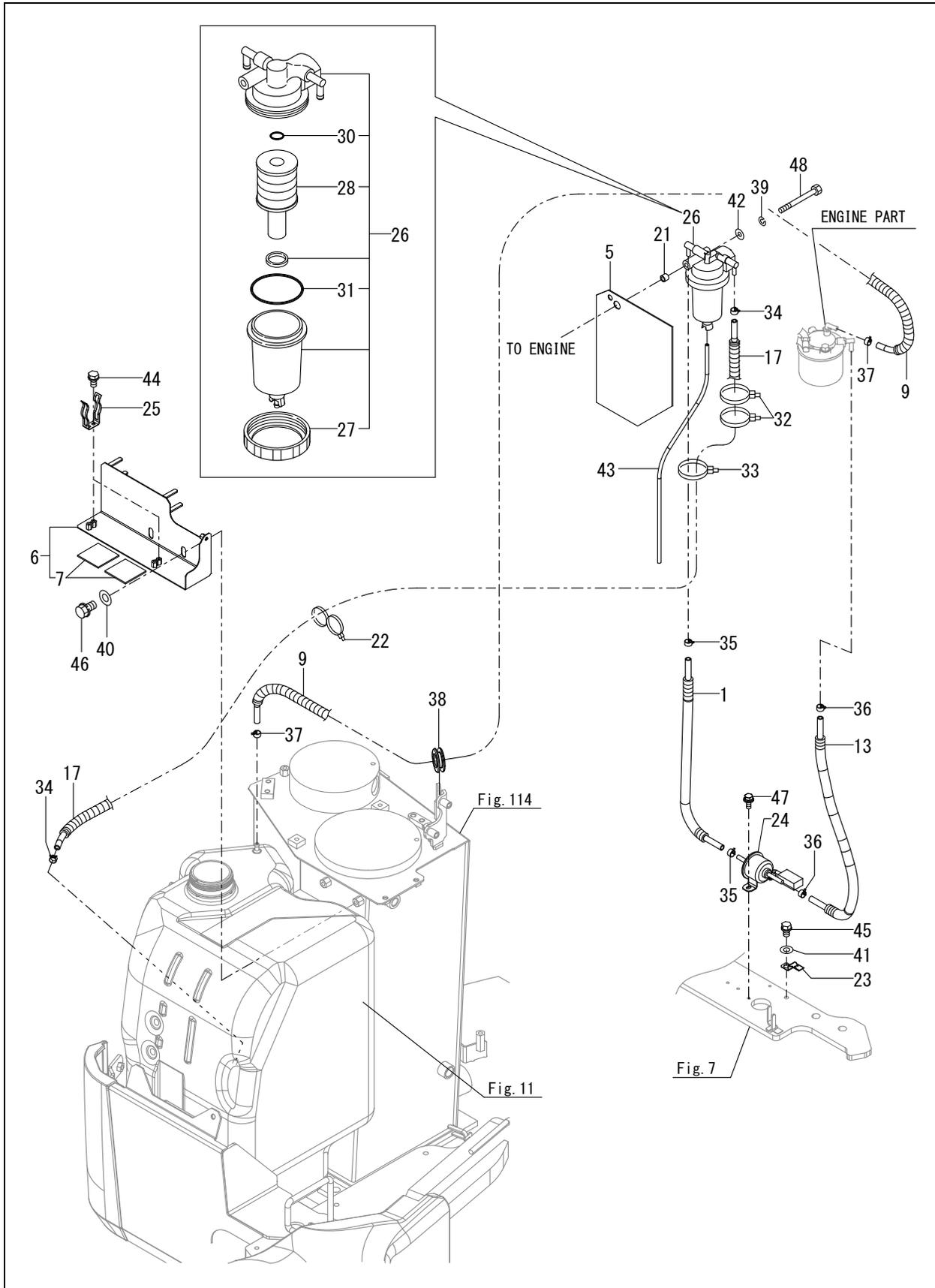


Z80 - COMPACT EXCAVATOR
FIG. 11 - FUEL TANK

Ref.	No.	Part No.	Description	Qty.
	1	50282614	FUEL OIL TANK ASSY	1
	2	50280800	PIPE, WATER DRAIN	1
	3	50281569	TANK ASSY	1
	4	50282358	CAP ASSY,FILLER	1
	5	50282359	GASKET,FILLER CAP	1
	9	50281570	NET ASSY,FUEL INLET	1
	12	50281060	FLOAT	1
	13	50281131	HOSE, FUEL GAUGE	1
	14	50281572	BLOCK ASSY, DRAIN	1
	15	50281574	PLATE, R1/2	2
	16	425-34918	CLAMP 13	2
	17	188723	PLUG PT 1/2	2
	18	425-34745	O-RING 1A P-32.0	1
	19	425-34745	O-RING 1A P-32.0	2
	20	50282507	BOLT W/WASHER M8X20	4
	21	50282509	BOLT M 8X 30	4
	22	50280922	HOSE, FUEL GAUGE	1
	23	50281571	SUPPORT,RIB FO	1
	24	50280854	GASKET	1
	25	50282080	GAUGE UNIT, FUEL	1
	26	50281573	VALVE,FUEL DRAIN	1
	27	50281048	JOINT	1
	28	50280926	HOSE	1
	29	50280724	CLIP, HOSE	1
	30	425-34916	CLAMP 12	2
	31	50282437	CLAMP 13,HOSE	1
	32	50282506	BOLT W/WASHER M8X16	1
	33	425-36271	SCREW M 5 X 12	5
	34	50282350	WASHER 10	2
	35	50281576	BRACKET ASSY, F	1
	37	50281577	RUBBER, PLATE A	1
	38	50281578	RUBBER PLATE,D	2
	39	50282125	RUBBER SPONGE	2
	40	50281579	BRACKET ASSY, UP	1
	42	50281580	RUBBER, PLATE B	1
	43	50281581	BRACKET ASSY, L	1
	44	50281577	RUBBER, PLATE A	1
	46	50282517	BOLT M10X 30	2
	47	50282517	BOLT M10X 30	2
	48	50282517	BOLT M10X 30	2
	49	50282538	BOLT M10X 20	2
	50	50282578	U-NUT M10	2

Z80 - COMPACT EXCAVATOR

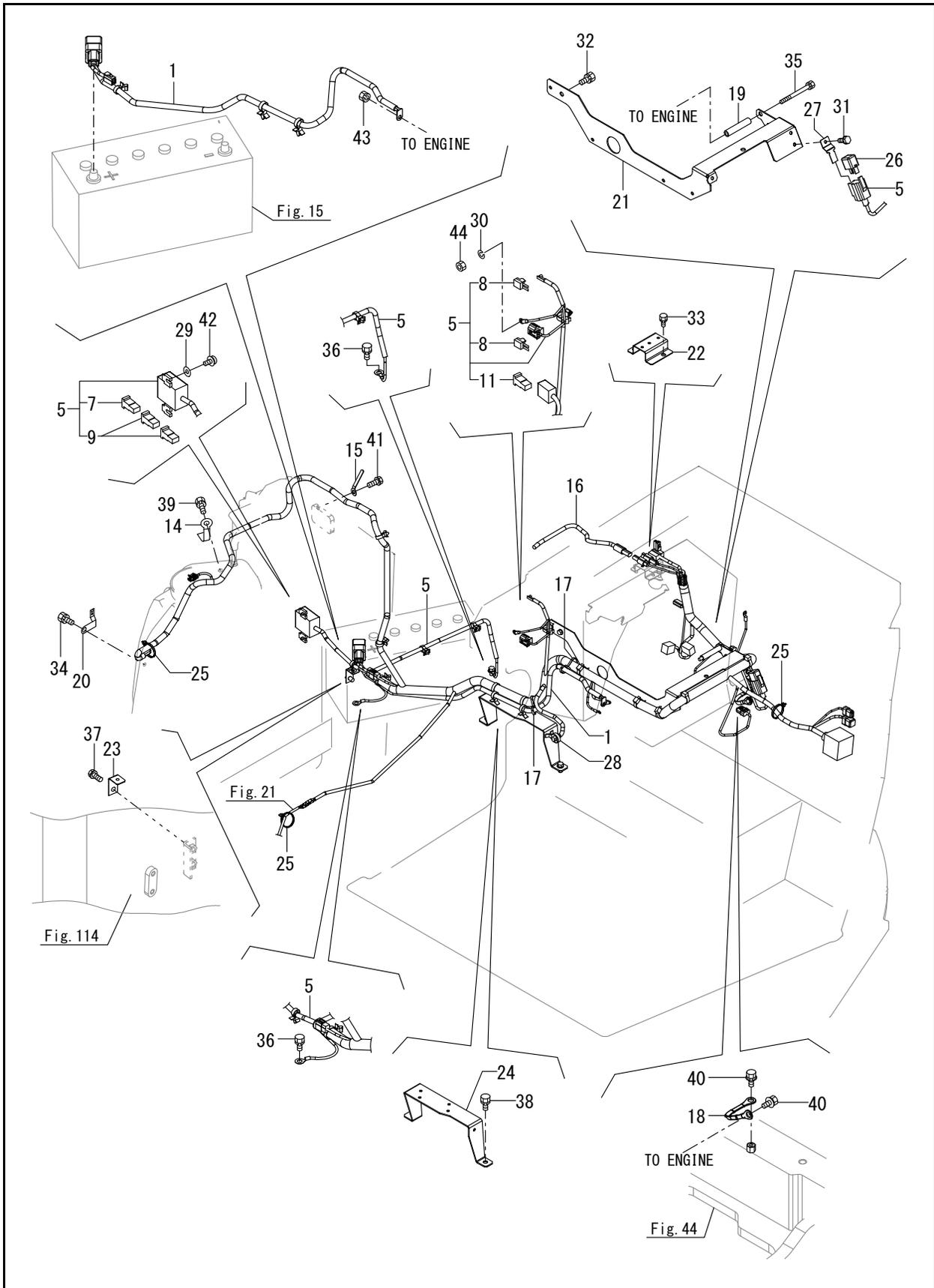
FIG. 12 - FUEL LINE



Z80 - COMPACT EXCAVATOR
FIG. 12 - FUEL LINE

Ref.	No.	Part No.	Description	Qty.
	1	50280921	HOSE ASSY	1
	5	50281575	RUBBER PLATE	1
	6	50281582	BK ASSY,GREASE CAN	1
	7	50281056	RUBBER PLATE	2
	9	50282126	HOSE ASSY 2080	1
	13	50282127	HOSE ASSY,550	1
	17	50281583	HOSE ASSY(2400	1
	21	50282354	COLLAR 9.2X13.8X11	1
	22	50280802	BAND	1
	23	50281145	STAY A	1
	24	186483	FUEL PUMP	1
	25	50280784	BRACKET, GREASE PUMP	2
	26	50282349	SEPARATOR ASSY,WATER	1
	27	425-34924	RING, RETAINING	1
	28	186340	FILTER	1
	30	425-34744	O-RING 1A P-16.0	1
	31	425-34927	O-RING 1A G65	1
	32	50282352	BAND	2
	33	50282352	BAND	1
	34	425-34916	CLAMP 12	2
	35	425-34916	CLAMP 12	2
	36	425-34916	CLAMP 12	2
	37	425-34916	CLAMP 12	2
	38	50281008	GROMMET	1
	39	50282380	WASHER 8, POLISHED	1
	40	138111	WASHER/POLISHED	2
	41	138111	WASHER/POLISHED	1
	42	50282392	WASHER, 8	1
	43	50282435	PIPE 5X500,VINYL	1
	44	50282501	BOLT M 6X 12	4
	45	50282514	BOLT M10X 16	1
	46	50282514	BOLT M10X 16	2
	47	50282531	BOLT M 6X 16	2
	48	50282563	BOLT M 8X 80 PLATED	1

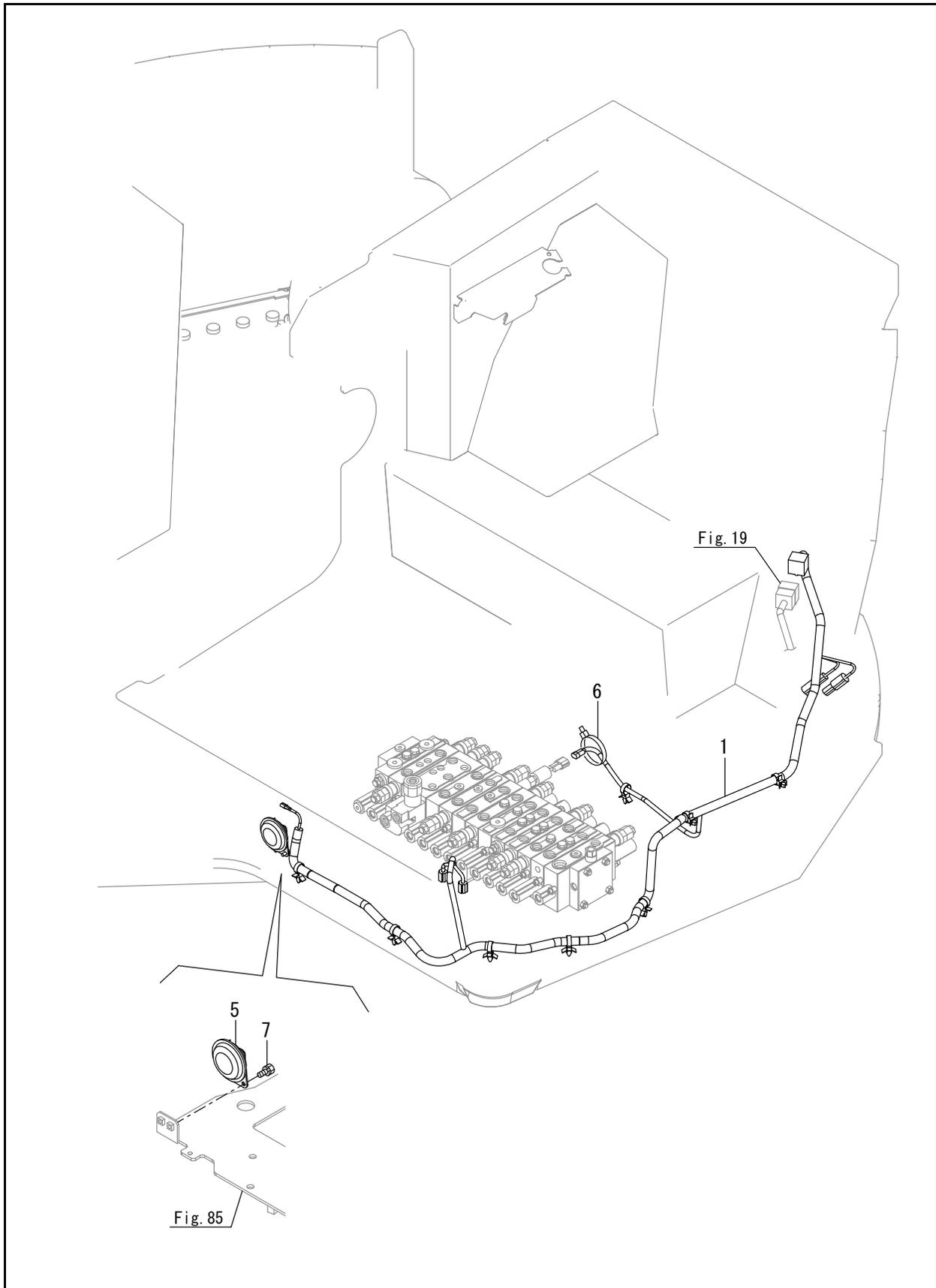
Z80 - COMPACT EXCAVATOR
FIG. 13 - ELECTRIC PART (ENGINE)



**Z80 - COMPACT EXCAVATOR
FIG. 13 - ELECTRIC PART (ENGINE)**

Ref. No.	Part No.	Description	Qty.
1	50281584	CORD ASSY BATTERY	1
5	50282130	HARNESS,A ASSY	1
7	50281502	FUSE,SLOW BLOW 60A	1
8	50281346	DIODE	2
9	50281589	FUSE,SLOW BLOW 60A	2
11	50282357	BLOW 79A,SLOW CMP	1
14	50280799	CLAMP 10X70	1
15	50280799	CLAMP 10X70	1
16	50281501	HARNESS C	1
17	50280802	BAND	3
18	50280928	CODE, ENGINE EARTH	1
19	50281587	COLLAR	1
20	50281588	BRACKET,SWP 2P-M	1
21	50282133	SUPPORT ASSY	1
22	50282134	CLAMP,HARNESS	1
23	50282135	STAY,HARNESS	1
24	50282136	SUPPORT,HARNESS B	1
25	50282352	BAND	3
26	197662	RELAY (ISO 90A)	1
27	197319	BRACKET	1
28	50282373	BAND CLAMP	1
29	50282379	WASHER 6, POLISHED	2
30	425-34891	SPRING WASHER 6	1
31	50282502	BOLT M 6X 16	1
32	50282506	BOLT W/WASHER M8X16	1
33	50282506	BOLT W/WASHER M8X16	2
34	50282506	BOLT W/WASHER M8X16	1
35	50282512	BOLT M 8X 85	1
36	50282514	BOLT M10X 16	2
37	50282514	BOLT M10X 16	1
38	50282515	BOLT W/WASHER M10X20	2
39	50282533	BOLT M 8X 16	1
40	50282537	BOLT M10X16	2
41	50282537	BOLT M10X16	1
42	50282545	SCREW, M6X12	2
43	50282548	NUT M 8	1
44	138143	NUT	1

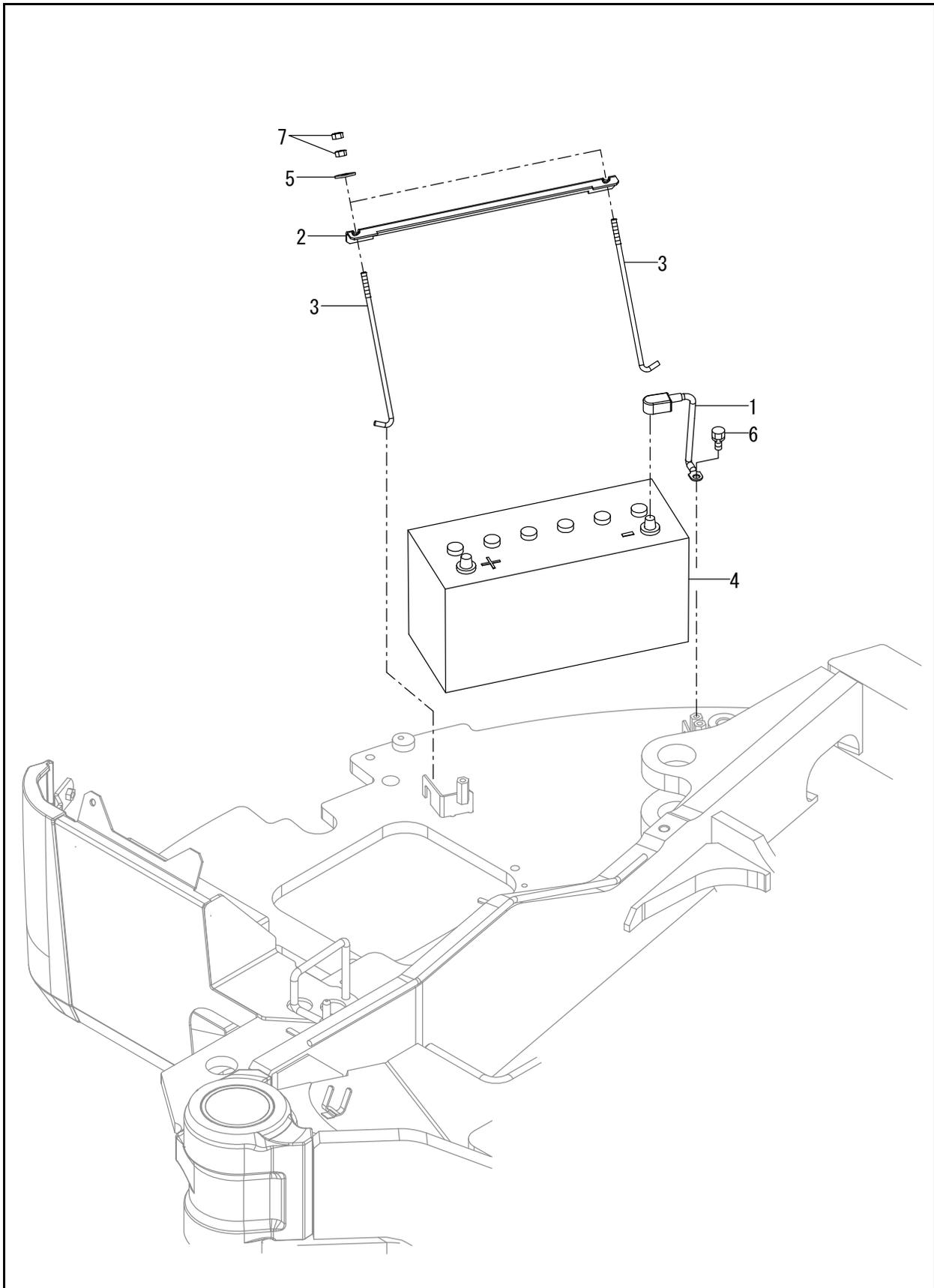
Z80 - COMPACT EXCAVATOR
FIG. 14 - ELECTRIC PART (CONTROL VALVE PLATE)



Z80 - COMPACT EXCAVATOR
FIG. 14 - ELECTRIC PART (CONTROL VALVE PLATE)

Ref.	No.	Part No.	Description	Qty.
	1	50281585	HARNES,D ASSY	1
	5	50282351	HORN	1
	6	50282373	BAND CLAMP	1
	7	50282501	BOLT M 6X 12	2

Z80 - COMPACT EXCAVATOR
FIG. 15 - ELECTRIC PART (BATTERY)

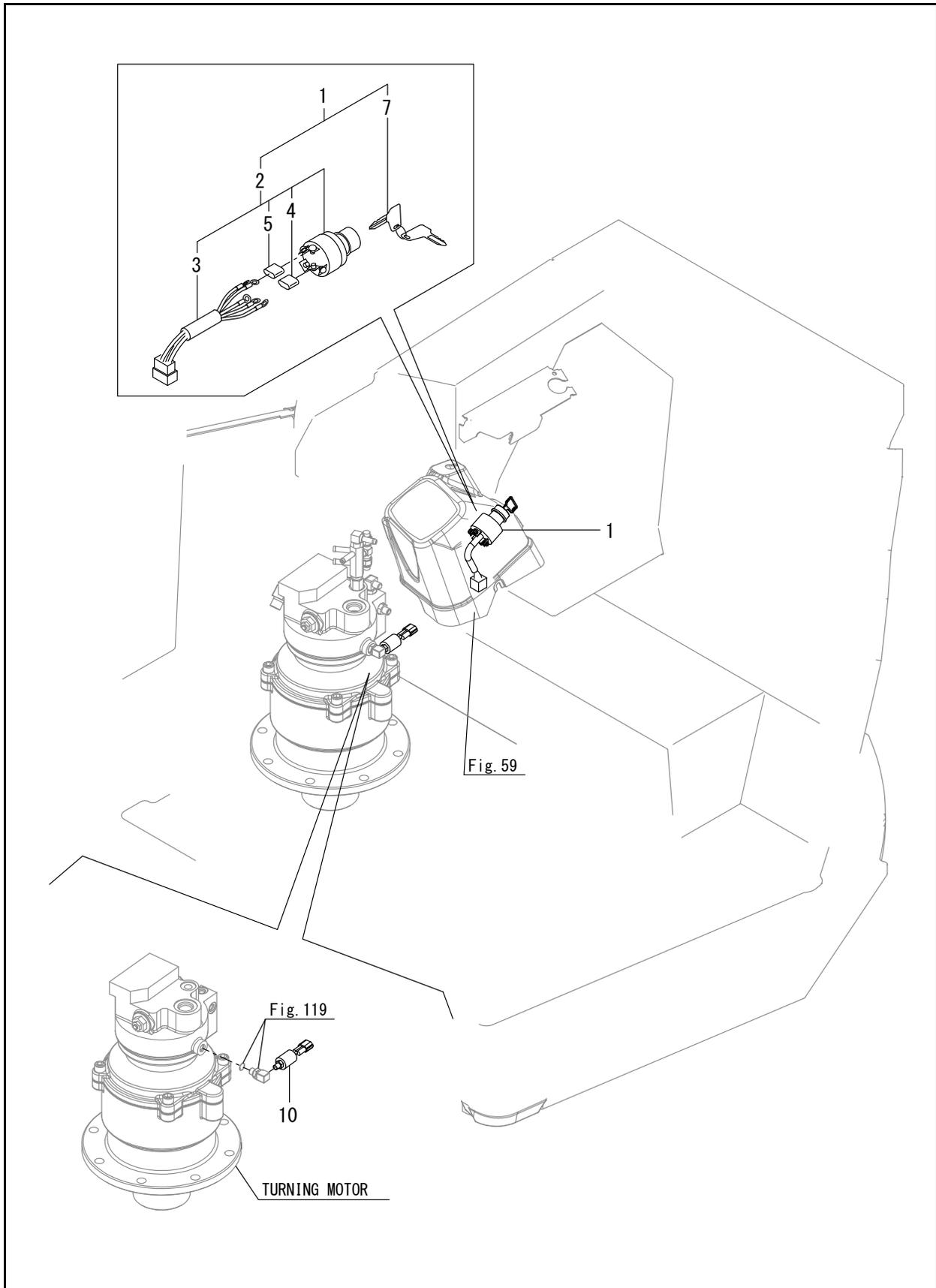


**Z80 - COMPACT EXCAVATOR
FIG. 15 - ELECTRIC PART (BATTERY)**

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

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

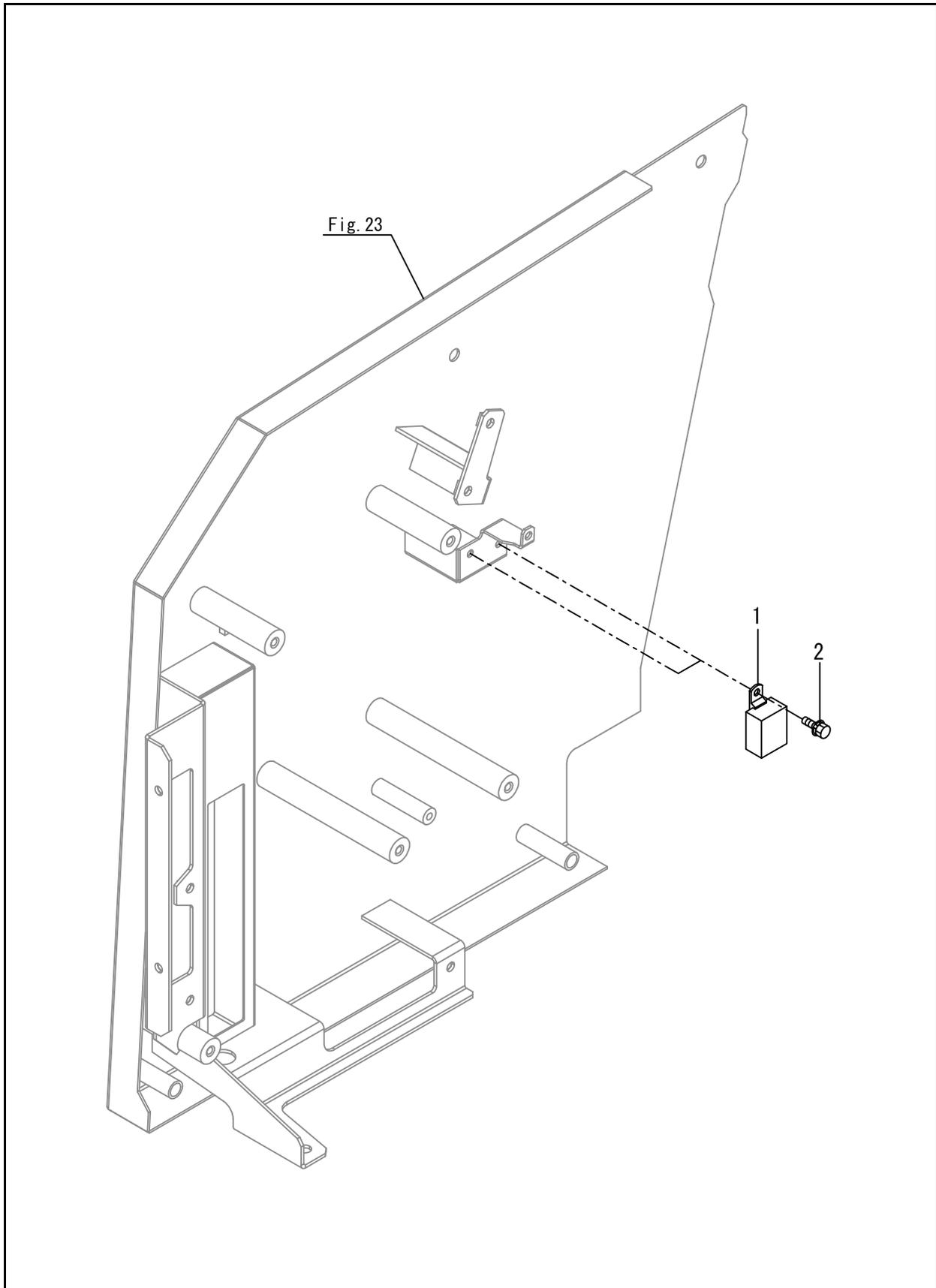
Z80 - COMPACT EXCAVATOR
FIG. 16 - ELECTRIC PART (STARTING SWITCH)



Z80 - COMPACT EXCAVATOR
FIG. 16 - ELECTRIC PART (STARTING SWITCH)

Ref.	No.	Part No.	Description	Qty.
	1	50280932	SWITCH, START	1
	2	50283430	CYLINDER ASSY,KEY	1
	3	50280929	HARNESS	1
	4	50280930	COVER M5	3
	5	50280931	COVER M4	2
	7	50282616	KEY ASSY	1
	10	50281182	PRESSER SWITCH,ASSY	1

Z80 - COMPACT EXCAVATOR
FIG. 17 - ELECTRIC PART (AIR CONDITIONER)

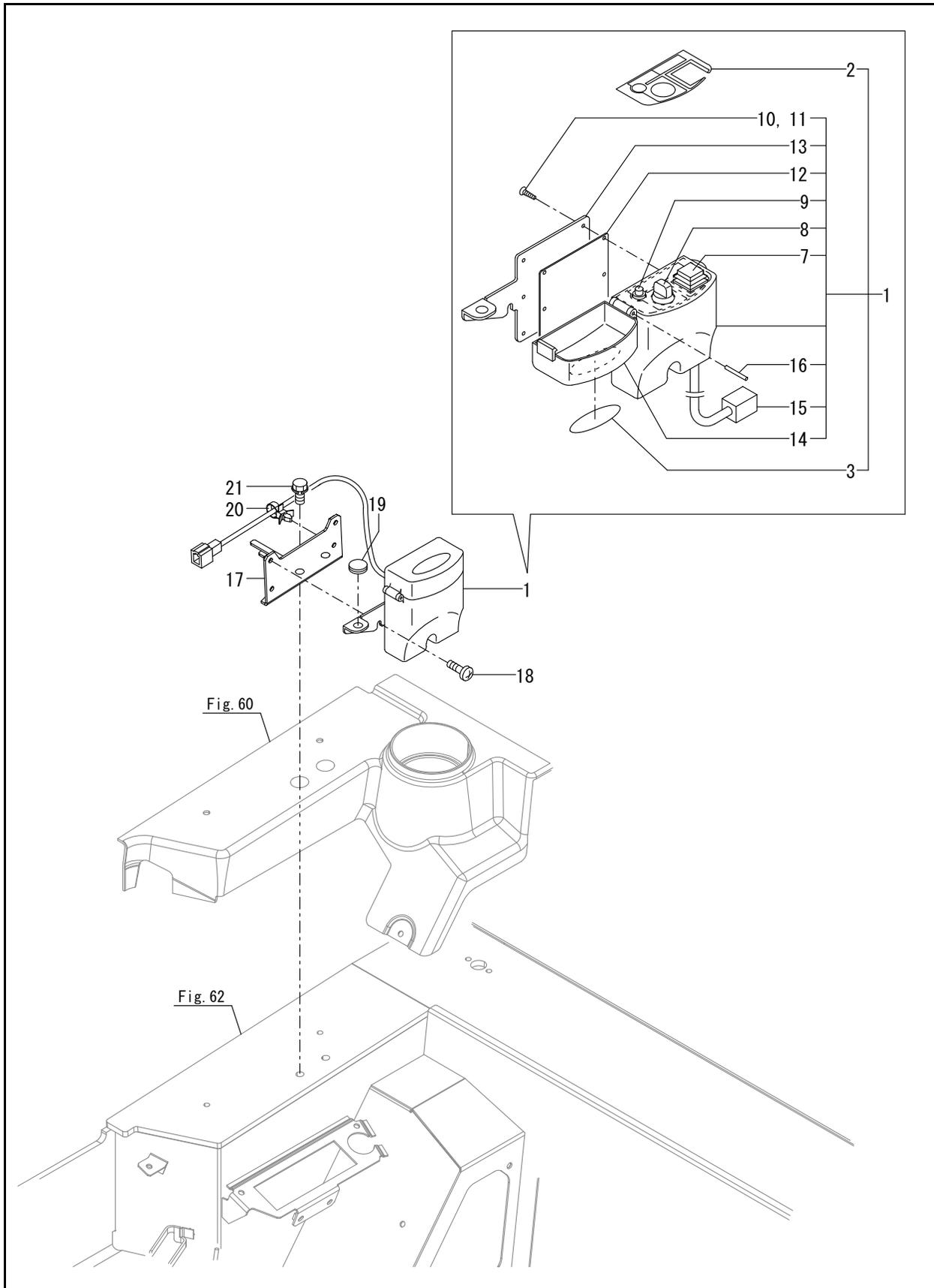


Z80 - COMPACT EXCAVATOR
FIG. 17 - ELECTRIC PART (AIR CONDITIONER)

Ref.			
No.	Part No.	Description	Qty.
1	193206	RELAY/20AMP	2
2	50282531	BOLT M 6X 16	2

Z80 - COMPACT EXCAVATOR

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



Z80 - COMPACT EXCAVATOR
FIG. 18 - ELECTRIC PART (SWITCH BOX : QUICK COUPLER)

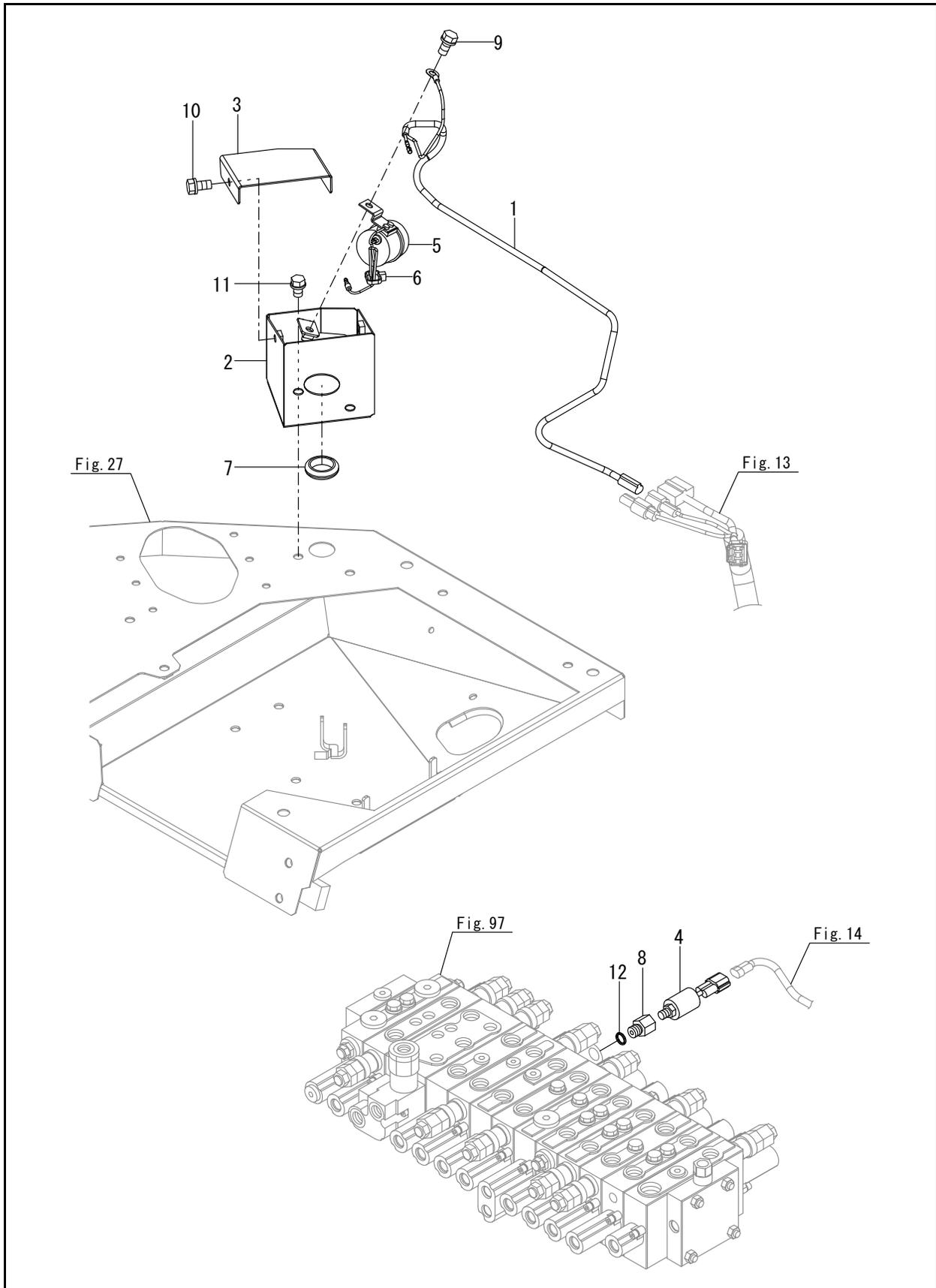
Ref.	No.	Part No.	Description	Qty.
	1	50281362	SWITCH BOX(EX	1
	2	50281179	LABEL, SWITCH	1
	3	50301147	LABEL, COVER	1
	7	50281364	SWITCH ASSY(GEN	1
	8	50281365	SWITCH ASSY(CONTR	1
	9	50281366	INDICATOR LAMP(CP	1
	10	50281367	TAPPING SCREWS	6
	11	50281368	TAPPING SCREWS	2
	12	50281369	PACKING	1
	13	50281370	BRACKET	1
	14	50281371	CASE, UPPER	1
	15	50281372	CODE CP 4P	1
	16	50282412	SPRING PIN 3X28	1
	17	50282140	QH BRACKET ASSY	1
	18	50280804	SCREW	2
	19	50280948	PLUG	1
	20	50282373	BAND CLAMP	1
	21	50282515	BOLT W/WASHER M10X20	2

Z80 - COMPACT EXCAVATOR
FIG. 19 - ELECTRIC PART (SEAT MOUNT)

Ref.	No.	Part No.	Description	Qty.
	1	50280798	BAND 300	2
	2	50280798	BAND 300	1
	3	50281127	RUBBER 100	1
	4	50282131	HARNESS,B ASSY	1
	8	50280906	PULLER	1
	9	50280933	COVER	1
	13	50282604	FUSE, 5A	2
	14	50282605	FUSE, 10A	5
	15	50282606	FUSE B30	3
	16	50280802	BAND	1
	17	50282139	BOX A ASSY,CONTROLER	1
	19	50281590	EV,CONTROLER BOX A	1
	20	50281219	SEAL,MULTI COVER	1
	21	50282141	PLATE ASSY,SWITCH	1
	22	50281499	SOCKET ASSY	1
	23	50281601	SWITCH, ENGINE STOP	1
	24	50281504	COLLAR	4
	25	50282353	SWITCH, SAFETY START	1
	26	193206	RELAY/20AMP	8
	27	50282352	BAND	1
	28	50281052	SPONGE	1
	29	197319	BRACKET	1
	30	50280735	TIMER	1
	31	197663	RELAY (ISO 70A)	1
	32	50282373	BAND CLAMP	1
	33	50282379	WASHER 6, POLISHED	4
	34	186593	WASHER 8	2
	35	50282506	BOLT W/WASHER M8X16	3
	36	50282508	BOLT M 8X 25	2
	37	50282531	BOLT M 6X 16	2
	38	50282531	BOLT M 6X 16	2
	39	50282503	BOLT M 6 X 40	4
	40	50282548	NUT M 8	1
	41	425-34733	BOLT M8 X 16 PLATED	1
	42	425-34733	BOLT M8 X 16 PLATED	2
	43	186626	NUT M18 LOCK	1
	44	50282142	COVER B ASSY,BOX	1
	45	50282506	BOLT W/WASHER M8X16	3

Z80 - COMPACT EXCAVATOR

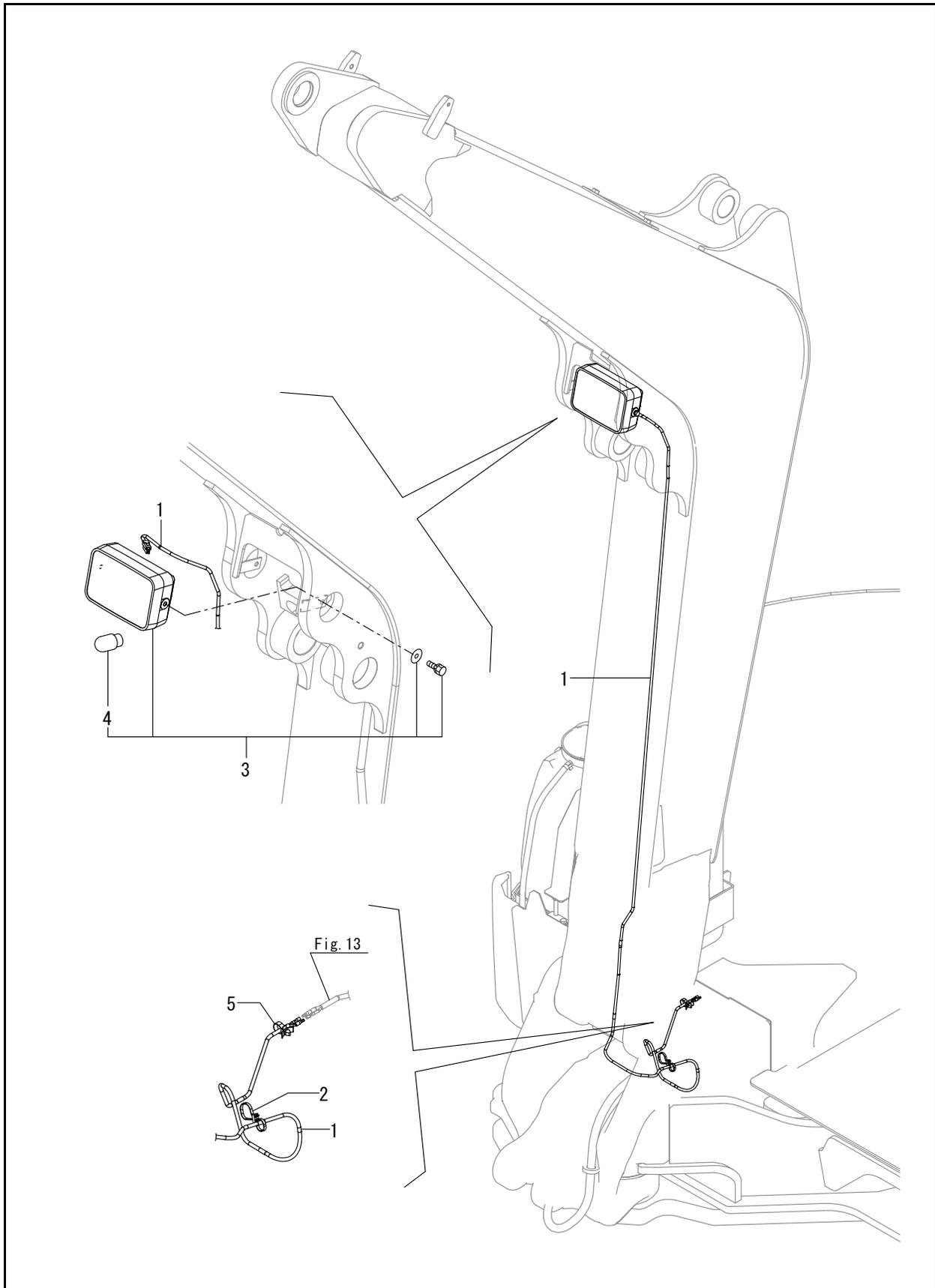
FIG. 20 - TRAVEL ALARM



Z80 - COMPACT EXCAVATOR
FIG. 20 - TRAVEL ALARM

Ref.	No.	Part No.	Description	Qty.
	1	50282128	HARNES,TRAVEL	1
	2	50282137	BUZZER COVER CMP	1
	3	50282138	BUZZER COVER	1
	4	50281182	PRESSER SWITCH,ASSY	1
	5	50281317	BUZZER, BACK	1
	6	50282352	BAND	1
	7	50280805	GROMMET	1
	8	50280848	CONNECTOR	1
	9	50282506	BOLT W/WASHER M8X16	1
	10	50282506	BOLT W/WASHER M8X16	2
	11	50282514	BOLT M10X 16	2
	12	50282607	PACKING, 11.0	1

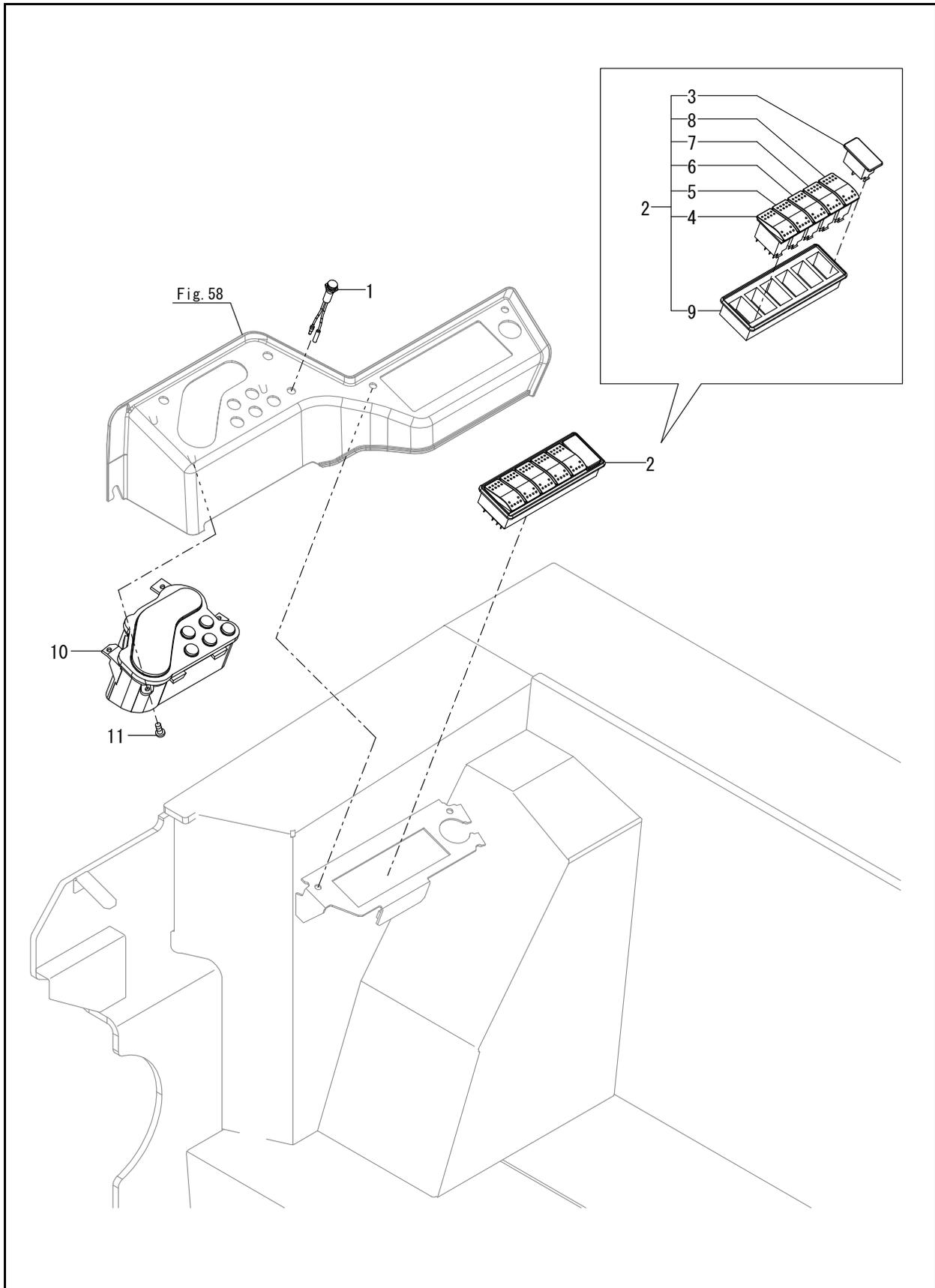
Z80 - COMPACT EXCAVATOR
FIG. 21 - ELECTRIC PART (WORK LAMP)



Z80 - COMPACT EXCAVATOR
FIG. 21 - ELECTRIC PART (WORK LAMP)

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

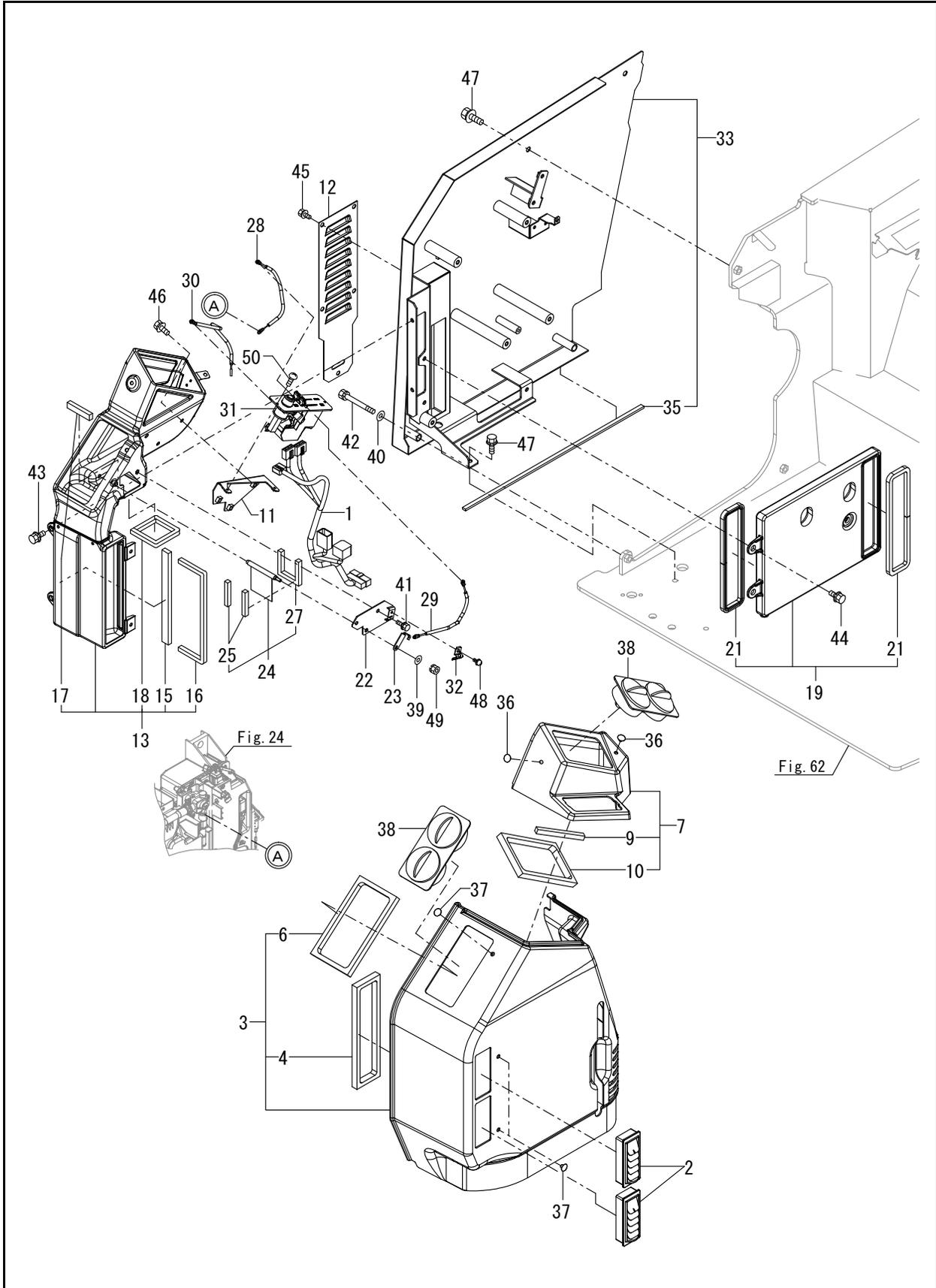
Z80 - COMPACT EXCAVATOR
FIG. 22 - ELECTRIC PART (INDICATOR BOX)



Z80 - COMPACT EXCAVATOR
FIG. 22 - ELECTRIC PART (INDICATOR BOX)

Ref.	No.	Part No.	Description	Qty.
	1	50281503	LAMP ASSY ASSY	1
	2	50281592	SWITCH ASSY	1
	3	50281321	PANEL PLUG	1
	4	50281594	SWITCH, TRAVEL	1
	5	50281596	SWITCH, WIPER	1
	6	50281598	SWITCH, LIGHT	1
	7	50281599	SWITCH, AUTO DECEL	1
	8	50281600	SWITCH, ECO	1
	9	50281602	PANEL	1
	10	50282078	MONITOR ASSY	1
	11	50282422	SCREW 5X12	3

Z80 - COMPACT EXCAVATOR
FIG. 23 - AIR CONDITIONER (CABIN RELATED)

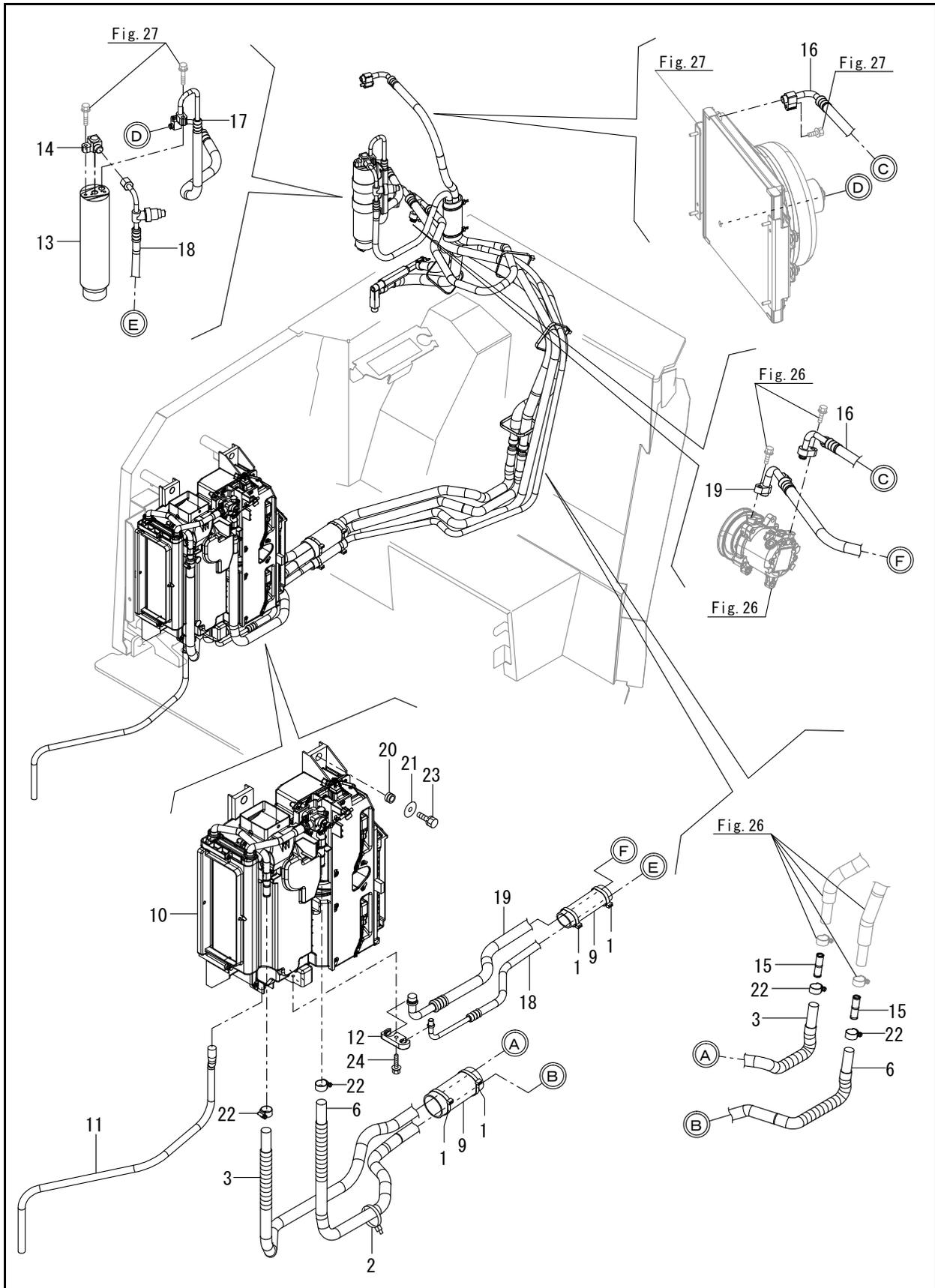


Z80 - COMPACT EXCAVATOR
FIG. 23 - AIR CONDITIONER (CABIN RELATED)

Ref.	No.	Part No.	Description	Qty.
	1	50282132	HARNES, WIRE	1
	2	50281133	GRILLE	2
	3	50281609	COVER ASSY,AC A	1
	4	50281610	SEAL,DUCT	1
	6	50282366	SEAL, DUCT SIDE	1
	7	50281611	COVER ASSY,AC B	1
	9	50281057	SEAL	1
	10	50282366	SEAL, DUCT SIDE	1
	11	50281617	BRACKET ASSY,AC	1
	12	50281618	INTAKE PLATE (49)	1
	13	50281619	DUCT ASSY,AC	1
	15	50281622	SEAL A,DUCT	1
	16	50281623	SEAL B,DUCT	1
	17	50281624	EV,DUCT	1
	18	50281625	SEAL C,DUCT	1
	19	50281620	DUCT C ASSY,AC	1
	21	50281621	SEAL,DUCT C	2
	22	50281627	COVER ASSY,DUCT	1
	23	50281628	LEVER,DUMPER	1
	24	50281630	DUMPER ASSY	1
	25	50281626	SEAL 65	2
	27	50281631	EV B,DUMPER	1
	28	50281636	CABLE,HEATER V	1
	29	50282154	CABLE,AC DAMPER	1
	30	50281637	CABLE,AC DOOR	1
	31	50281638	CONTROL ASSY	1
	32	50281642	CLAMP,CABLE	1
	33	50282149	BRACKET ASSY,ACU(49)	1
	35	50281140	SEAL 560	1
	36	50280947	CLIP	2
	37	50282362	CLIP	4
	38	50282363	AIR-CON GRILL CMP	2
	39	50282379	WASHER 6, POLISHED	1
	40	138111	WASHER/POLISHED	2
	41	50282500	BOLT M 6X 10	2
	42	50282524	BOLT W/WASHER 10X 85	2
	43	50282533	BOLT M 8X 16	4
	44	50282533	BOLT M 8X 16	3
	45	50282533	BOLT M 8X 16	5
	46	50282533	BOLT M 8X 16	3
	47	50282539	BOLT 10X25 W/PLW+SPW	3
	48	50282542	SCREW, M4X10	1
	49	50282547	NUT M 6	1
	50	50282592	SCREW, M4X12	2

Z80 - COMPACT EXCAVATOR

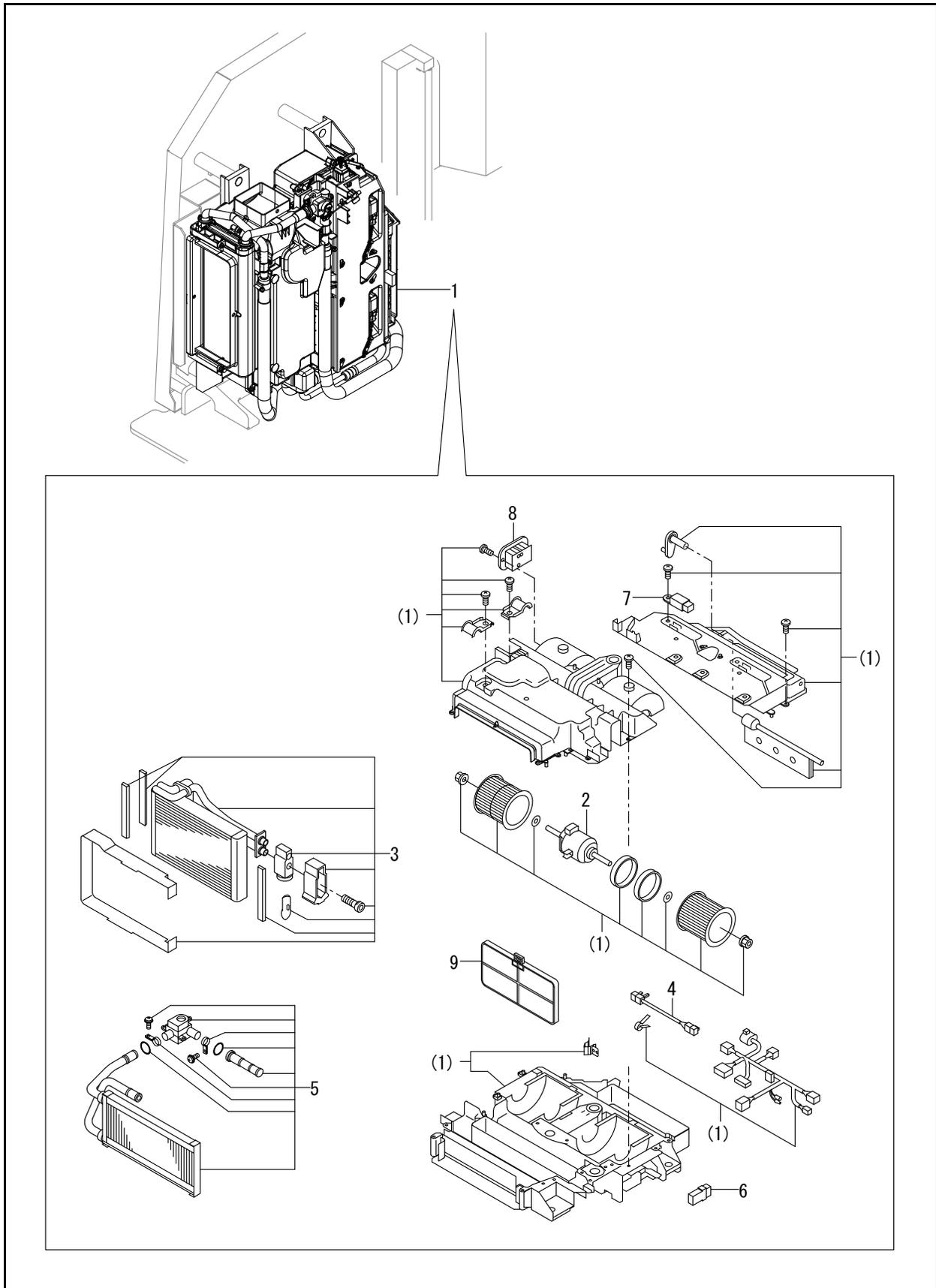
FIG. 24 - AIR CONDITIONER (PIPING)



**Z80 - COMPACT EXCAVATOR
FIG. 24 - AIR CONDITIONER (PIPING)**

Ref.			
No.	Part No.	Description	Qty.
1	50280798	BAND 300	4
2	50280798	BAND 300	1
3	50281603	HOSE ASSY,HEATER 1650	1
6	50281604	HOSE ASSY,HEATER 1550	1
9	50281629	SPONGE HOSE,120X53	2
10	50281632	UNIT ASSY,AC (see Fig. 25 for internal components)	1
11	50281640	HOSE,DRAIN	1
12	50281641	CONNECTOR,TUBE	1
13	50282371	RECEIVER DRYER	1
14	50282372	JOINT (RECEIVER)	1
15	50282364	PIPE, JOINT	2
16	50282155	HOSE,COMP-COND	1
17	50281639	HOSE,COND-R/D	1
18	50282156	HOSE,UNIT-R/D	1
19	50282157	HOSE,UNIT-COMP	1
20	50281224	SPACER 10.4X9.5	6
21	186593	WASHER 8	6
22	188718	CLAMP 18	4
23	50282508	BOLT M 8X 25	6
24	425-35450	BOLT M6 X 25	1

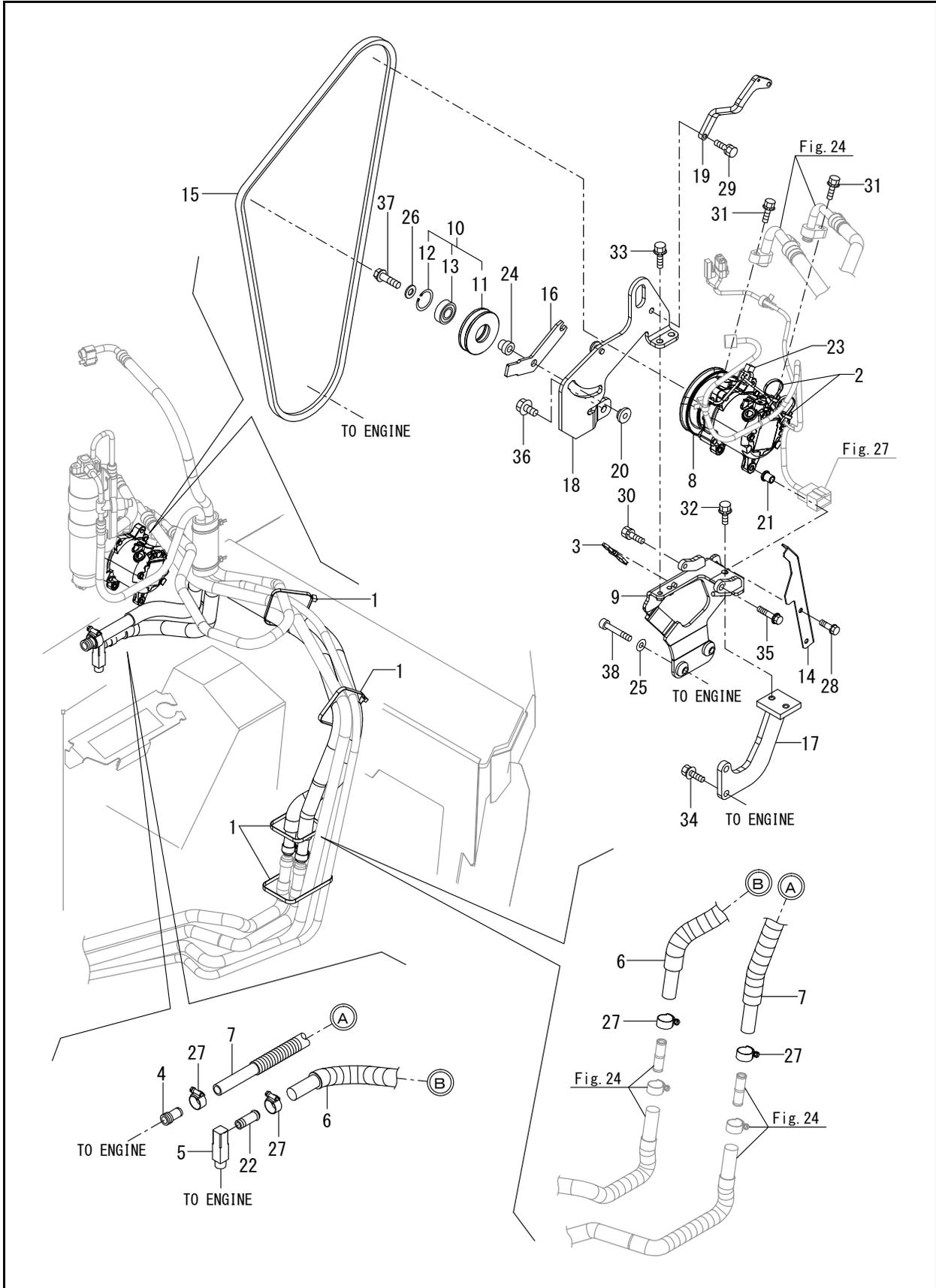
Z80 - COMPACT EXCAVATOR
FIG. 25 - AIR CONDITIONER (UNIT : INNER PARTS)



Z80 - COMPACT EXCAVATOR
FIG. 25 - AIR CONDITIONER (UNIT : INNER PARTS)

Ref.			
No.	Part No.	Description	Qty.
1	50281632	UNIT ASSY,AC	1
2	50286482	BLOWER MOTOR ASSY	1
3	50286483	EVAPORATOR ASSY	1
4	50286484	THERMISTOR	1
5	50286485	HEATER CORE ASSY	1
6	50286486	AMPLIFIER	1
7	50286487	RELAY, A/C	2
8	50286488	RESISTER	1
9	50286117	CAB AIR FILTER	1

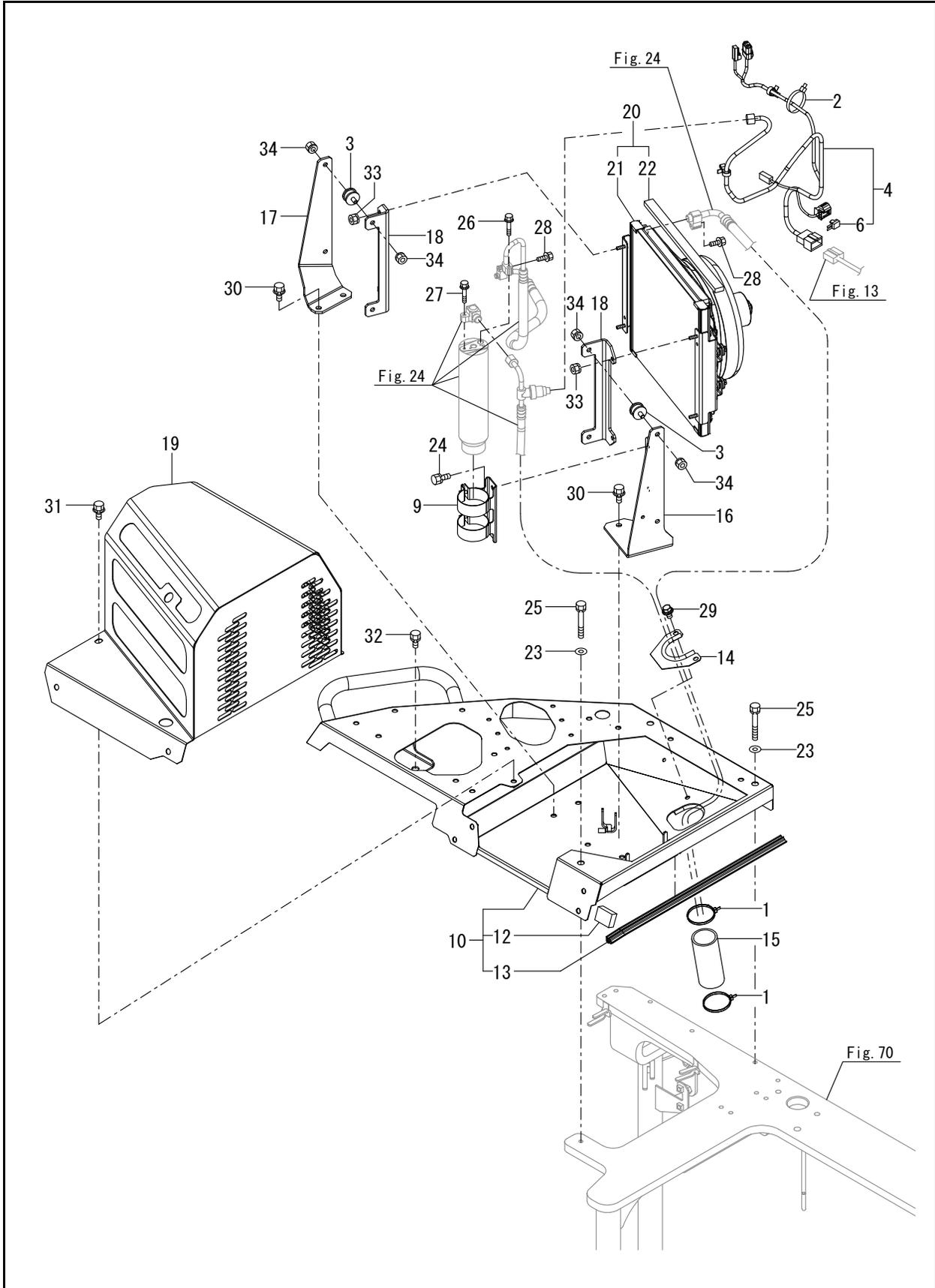
Z80 - COMPACT EXCAVATOR
FIG. 26 - AIR CONDITIONER (ENGINE RELATED)



Z80 - COMPACT EXCAVATOR
FIG. 26 - AIR CONDITIONER (ENGINE RELATED)

Ref.	No.	Part No.	Description	Qty.
	1	50280798	BAND 300	8
	2	50280802	BAND	2
	3	50280802	BAND	1
	4	50282711	JOINT 3/8	1
	5	50281228	ELBOW,R3/8-56	1
	6	50282143	HOSE ASSY, HEATER 1050	1
	7	50282143	HOSE ASSY, HEATER 1050	1
	8	50281605	COMPRESSOR ASSY	1
	9	50282145	BRACKET A ASSY	1
	10	50281606	PULLEY ASSY,TENSION	1
	11	50281607	PULLEY,TENSION	1
	12	50282406	CIRCLIP 35	1
	13	50282454	BALL BEARING	1
	14	50282146	GUARD,BELT	1
	15	50281608	V BELT HM60	1
	16	50281612	ADJUST BAR	1
	17	50281613	BRACKET B ASSY	1
	18	50281614	BRACKET(PULLY ASSY	1
	19	50281615	PLATE	1
	20	50280934	NUT	1
	21	50281616	COLLAR,COMPRESSOR	1
	22	50280739	JOINT	1
	23	50282352	BAND	1
	24	50280740	SPACER, TENSION	1
	25	50282380	WASHER 8, POLISHED	2
	26	138111	WASHER/POLISHED	1
	27	188718	CLAMP 18	4
	28	50282507	BOLT W/WASHER M8X20	2
	29	50282508	BOLT M 8X 25	2
	30	50282508	BOLT M 8X 25	1
	31	425-35450	BOLT M6 X 25	2
	32	50282534	BOLT M 8X 20	2
	33	425-35026	BOLT M8 X 25	2
	34	425-35026	BOLT M8 X 25	2
	35	50282536	BOLT M 8X 35	1
	36	138133	BOLT M10 X 20 PLATED	1
	37	138135	BOLT M10 X 35 PLATED	1
	38	50282587	BOLT 8X50	2

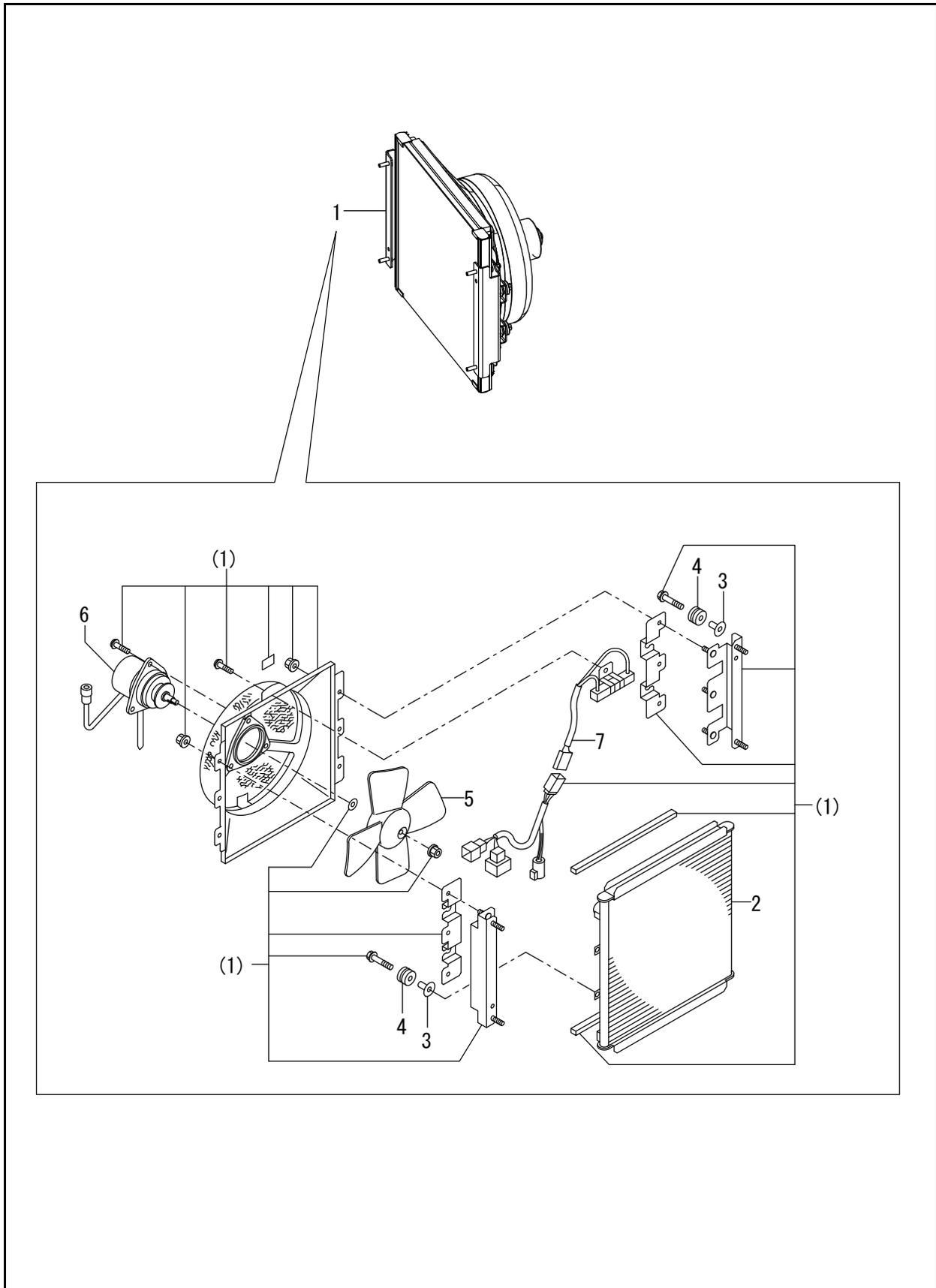
Z80 - COMPACT EXCAVATOR
FIG. 27 - AIR CONDITIONER (CONDENSER RELATED)



Z80 - COMPACT EXCAVATOR
FIG. 27 - AIR CONDITIONER (CONDENSER RELATED)

Ref.	No.	Part No.	Description	Qty.
	1	50280798	BAND 300	2
	2	50280798	BAND 300	1
	3	50281059	MOUNT	4
	4	50281586	HARNESS A ASSY,AC	1
	6	50281346	DIODE	1
	9	50280857	BRACKET	1
	10	50282147	AC COVER	1
	12	50282153	SEAL ,A	1
	13	50281137	RUBBER,SEAL 510	1
	14	50282148	COVER ,AC HOSE (49)	1
	15	50281629	SPONGE HOSE,120X53	1
	16	50281633	STAY L ASSY,AC COND	1
	17	50281634	STAY R,AC COND	1
	18	50281635	BRACKET,AC COND (49)	2
	19	50282150	AC COVER B	1
	20	50282151	COND ,SEAL ASSY	1
	21	50286496	CONDENSER ASSY (see Fig. 27 for internal components)	1
	22	50282152	SEAL ,CONDENCER	1
	23	138111	WASHER/POLISHED	3
	24	50282506	BOLT W/WASHER M8X16	2
	25	50282523	BOLT 10X70 W/SP.WSHR	3
	26	425-35450	BOLT M6 X 25	1
	27	425-35450	BOLT M6 X 25	1
	28	50282532	BOLT W/WASHER 6X 30	2
	29	50282533	BOLT M 8X 16	2
	30	50282538	BOLT M10X 20	4
	31	50282538	BOLT M10X 20	6
	32	50282538	BOLT M10X 20	1
	33	50282547	NUT M 6	4
	34	50282548	NUT M 8	8

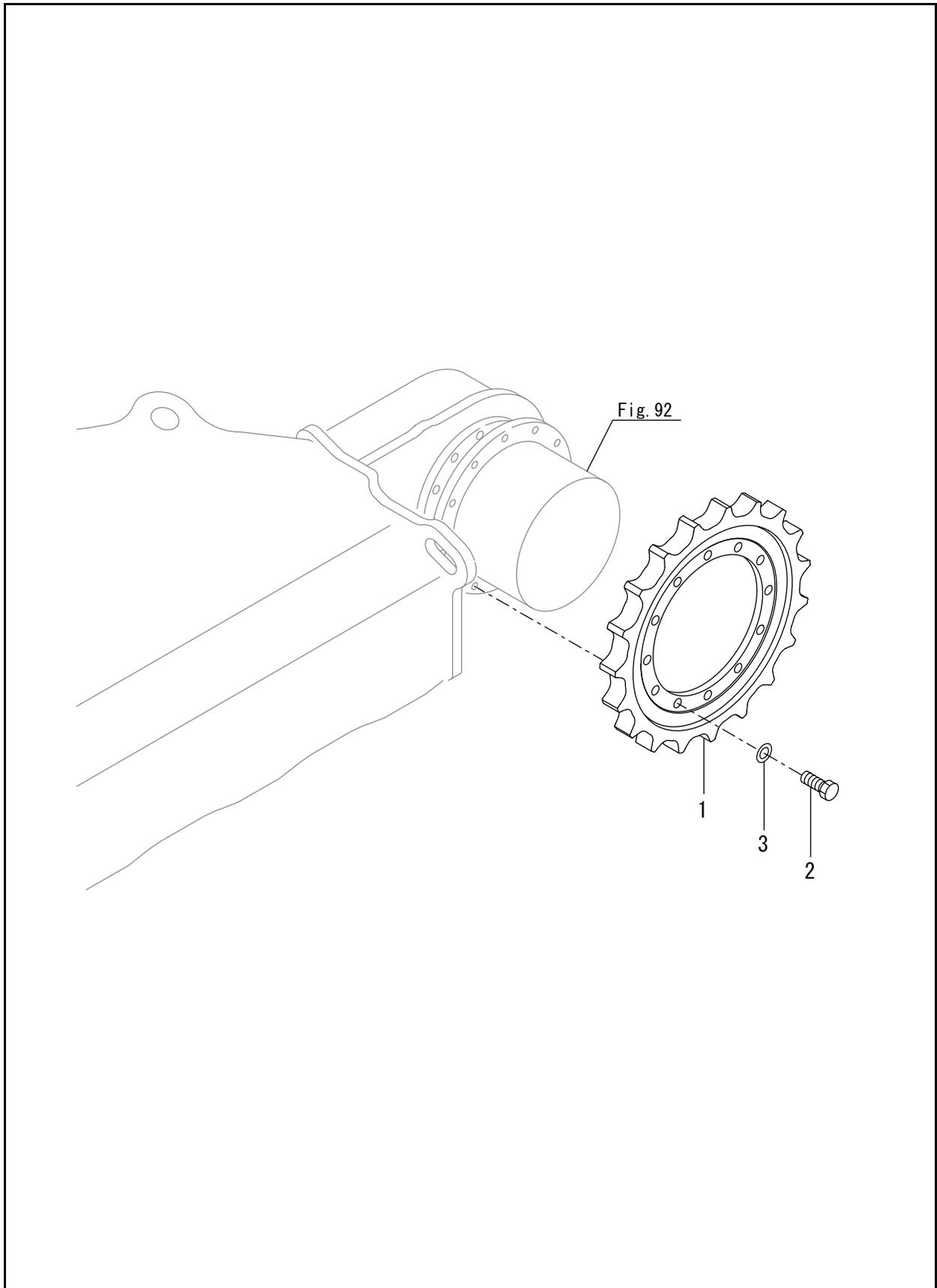
Z80 - COMPACT EXCAVATOR
FIG. 28 - AIR CONDITIONER (CONDENSER : INNER PARTS)



Z80 - COMPACT EXCAVATOR
FIG. 28 - AIR CONDITIONER (CONDENSER : INNER PARTS)

Ref.	No.	Part No.	Description	Qty.
	1	50286496	CONDENSER ASSY	1
	2	50286490	CONDENSER CORE	1
	3	50286491	BUSHING	4
	4	50286492	GROMMET	4
	5	50286493	FAN ASSY	1
	6	50286494	FAN MOTOR ASSY	1
	7	50286495	BLOWER RESISTER	1

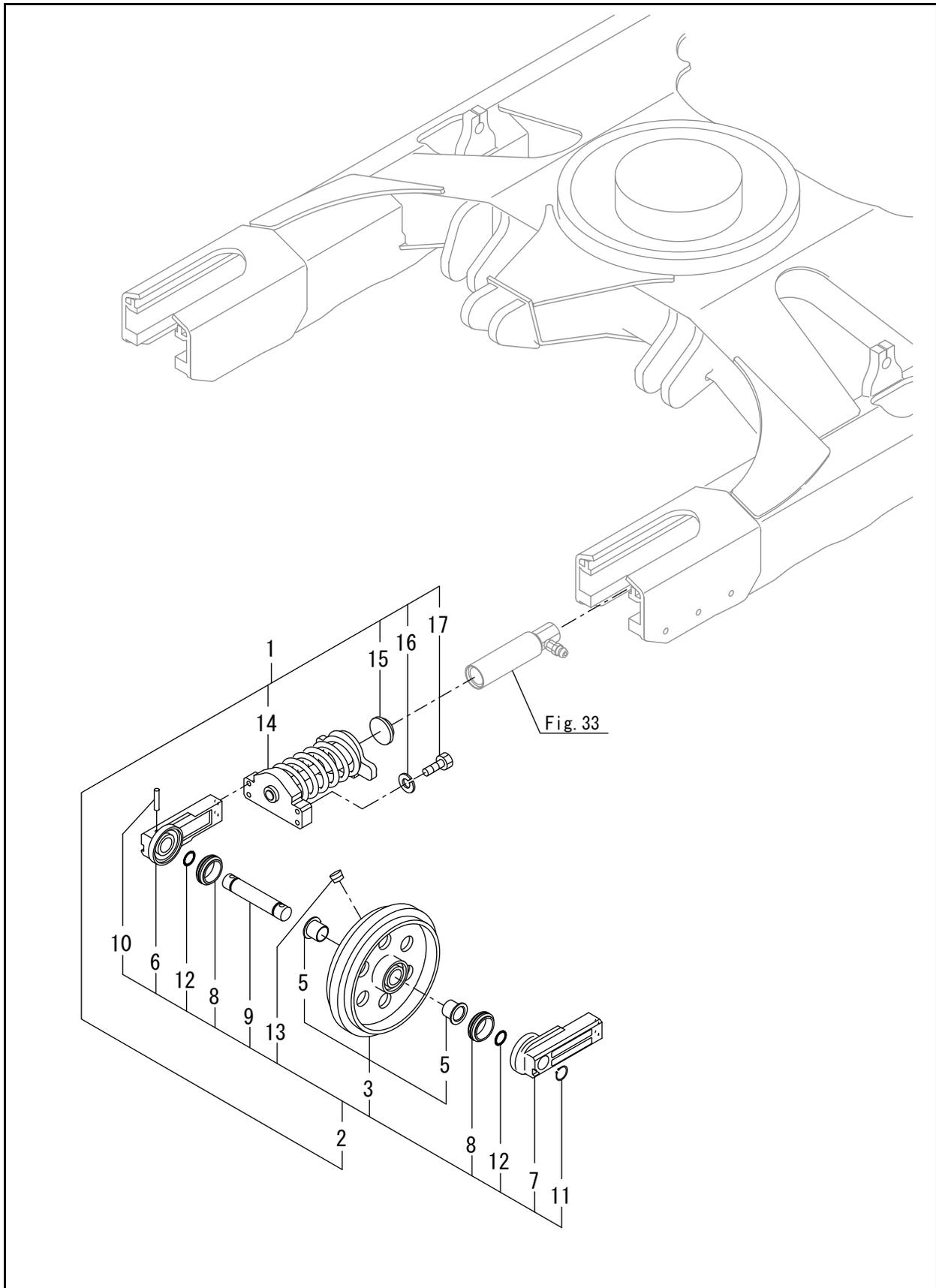
Z80 - COMPACT EXCAVATOR
FIG. 29 - SPROCKET



Z80 - COMPACT EXCAVATOR
FIG. 29 - SPROCKET

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

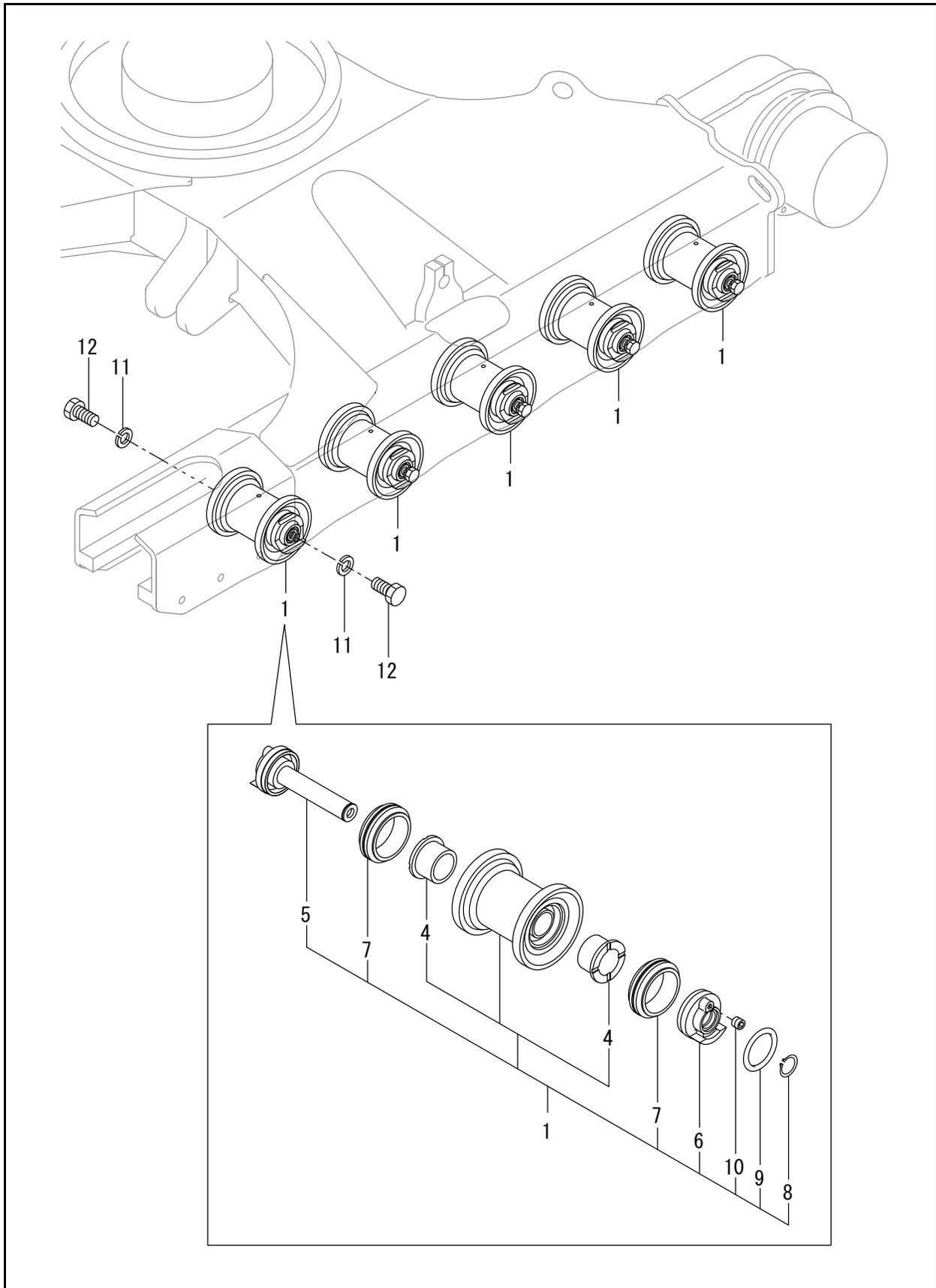
Z80 - COMPACT EXCAVATOR
FIG. 30 - IDLER & ADJUST



Z80 - COMPACT EXCAVATOR
FIG. 30 - IDLER & ADJUST

Ref.	No.	Part No.	Description	Qty.
	1	50282613	IDLER & ADJUST	2
	2	50282612	IDLER ASSY	2
	3	50281183	IDLER	2
	5	50281184	BUSH, 44	4
	6	50281185	SEAL COVER A, IDLER	2
	7	50281186	SEAL COVER B, IDLER	2
	8	50281068	FLOATING SEAL	4
	9	50281069	SHAFT	2
	10	50281070	SP PIN 10AWX70	2
	11	50282402	CIRCLIP 40	2
	12	50282462	O-RING 1A P-38.0	4
	13	50282621	PLUG PT1/8	2
	14	50280935	ADJUST, CRAWLER	2
	15	50280860	PLATE, ADJUSTER	2
	16	188712	SPRING/WASHER 14	8
	17	50282568	BOLT M14 X 60 PLATED	8

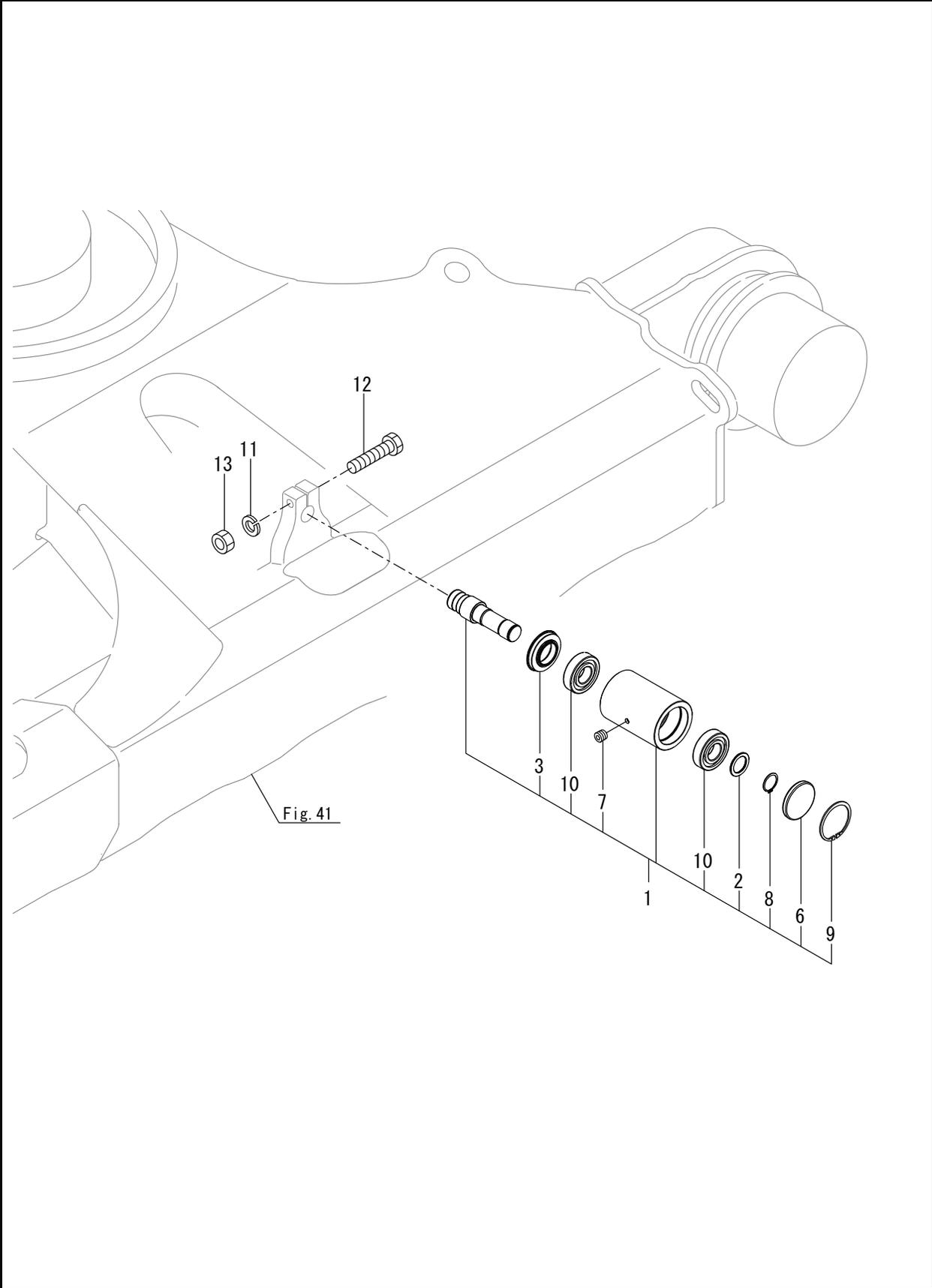
Z80 - COMPACT EXCAVATOR
FIG. 31 - TRACK ROLLER



Z80 - COMPACT EXCAVATOR
FIG. 31 - TRACK ROLLER

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

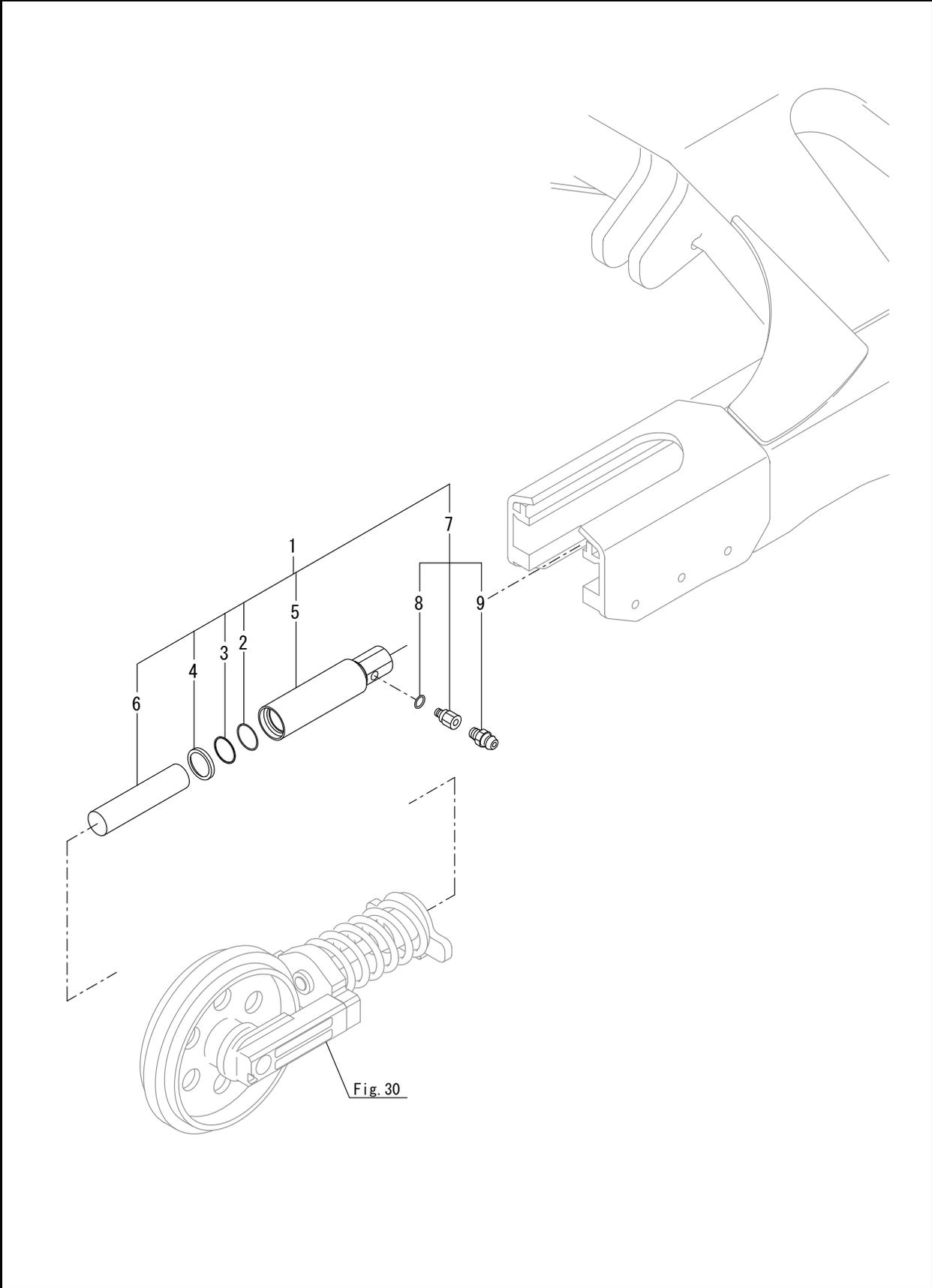
Z80 - COMPACT EXCAVATOR
FIG. 32 - CARRIER ROLLER



**Z80 - COMPACT EXCAVATOR
FIG. 32 - CARRIER ROLLER**

Ref.			
No.	Part No.	Description	Qty.
1	50282159	ROLLER ASSY, CARRIER	2
2	50281349	COLLAR 35X50X3	2
3	50280888	SEAL 45 85 8.5 19	2
6	50282160	CAP, SEALING 72	2
7	50282355	PLUG PT1/8	2
8	50282400	CIRCLIP 35	2
9	50282408	CIRCLIP 72	2
10	50282453	BALL BEARING	4
11	50282396	SPRING WASHER 16	2
12	50282573	BOLT M16X 85 PLATED	2
13	50282599	NUT M16	2

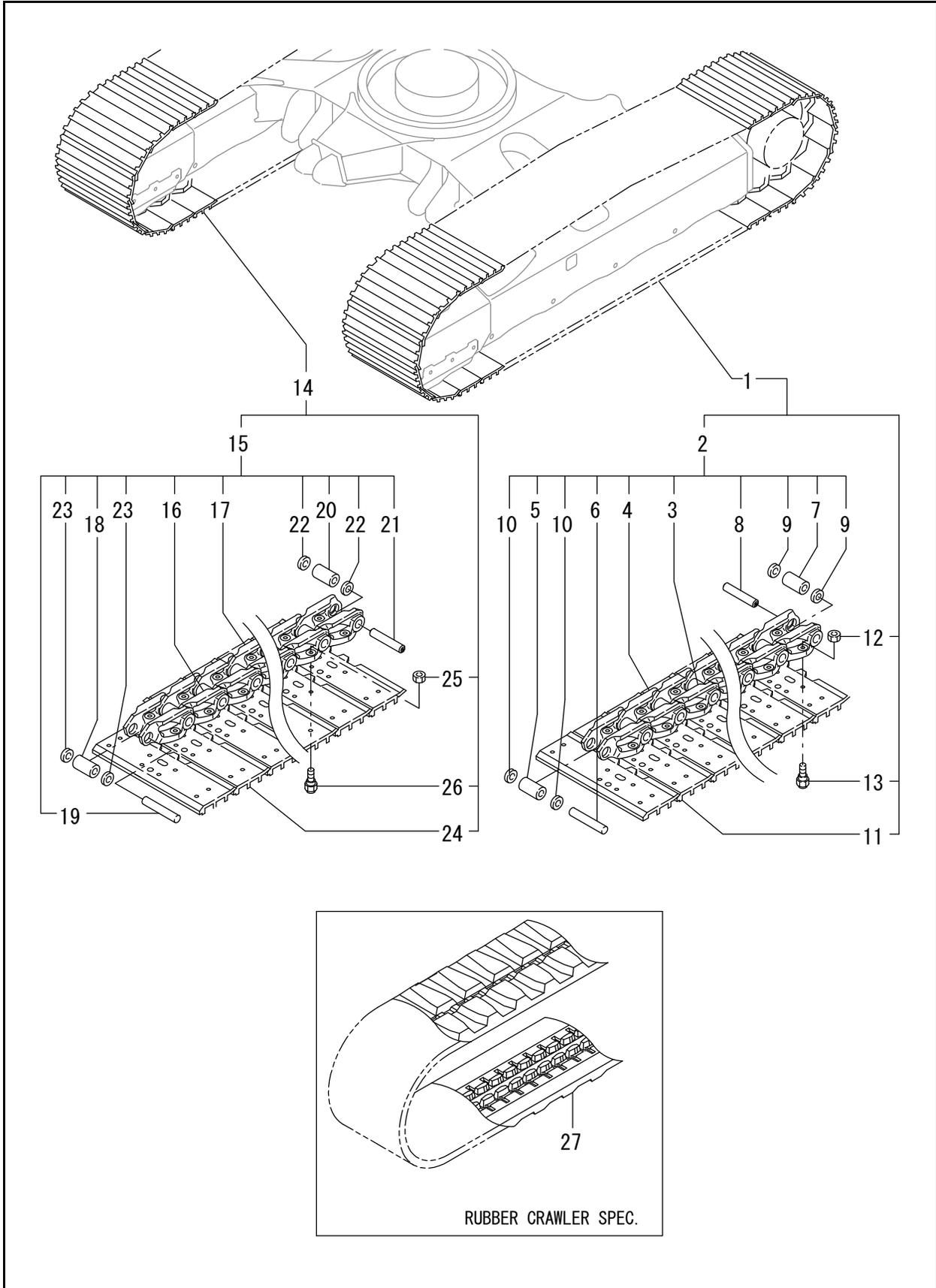
Z80 - COMPACT EXCAVATOR
FIG. 33 - CRAWLER ADJUST



Z80 - COMPACT EXCAVATOR
FIG. 33 - CRAWLER ADJUST

Ref.	No.	Part No.	Description	Qty.
	1	50282611	CYLINDER, ADJUSTER	2
	2	50282356	O-RING 55.0	2
	3	50281195	RING 55,BACKUP	2
	4	50281196	DKB 55 69 8 11	2
	5	50280858	TUBE ASSY, ADJUSTING	2
	6	50280859	PISTON	2
	7	50280783	VALVE ASSY, NIPPLE	2
	8	50282471	O-RING 1B P-14.0	2
	9	50282497	NIPPLE PT1/8,GREASE	2

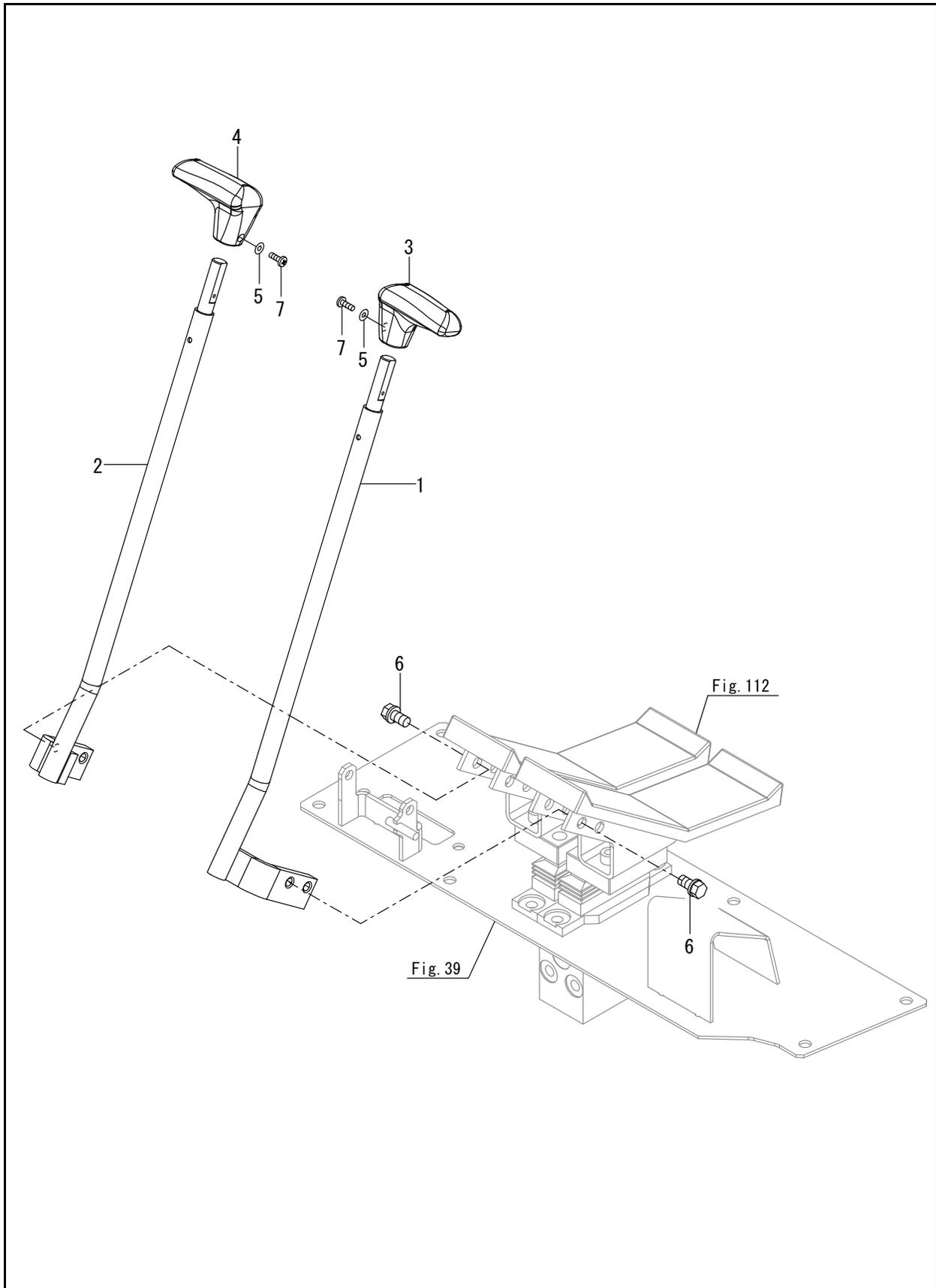
Z80 - COMPACT EXCAVATOR
FIG. 34 - CRAWLER



Z80 - COMPACT EXCAVATOR
FIG. 34 - CRAWLER

Ref.	No.	Part No.	Description	Qty.
	1	50282162	SHOE ASSY,TRACK 450R	1
	2	50282163	LINK ASSY	1
	3	50282168	LINK, TRACK L	39
	4	50282169	LINK, TRACK R	39
	5	50282170	BUSH, TRUCK	38
	6	50282171	PIN, TRUCK	38
	7	50282172	BUSH, MASTER	1
	8	50282173	PIN,MASTER	1
	9	50282174	COLLAR	2
	10	50282175	SEAL	76
	11	50282164	TRACK SHOE 450 L	39
	12	50282166	NUT,SHOE	156
	13	50282167	BOLT,SHOE	156
	14	50282162	SHOE ASSY,TRACK 450R	1
	15	50282163	LINK ASSY	1
	16	50282168	LINK, TRACK L	39
	17	50282169	LINK, TRACK R	39
	18	50282170	BUSH, TRUCK	38
	19	50282171	PIN, TRUCK	38
	20	50282172	BUSH, MASTER	1
	21	50282173	PIN,MASTER	1
	22	50282174	COLLAR	2
	23	50282175	SEAL	76
	24	50282165	TRACK SHOE 450 R	39
	25	50282166	NUT,SHOE	156
	26	50282167	BOLT,SHOE	156
	27	50281220	RUBBER CRAWLER 450	2

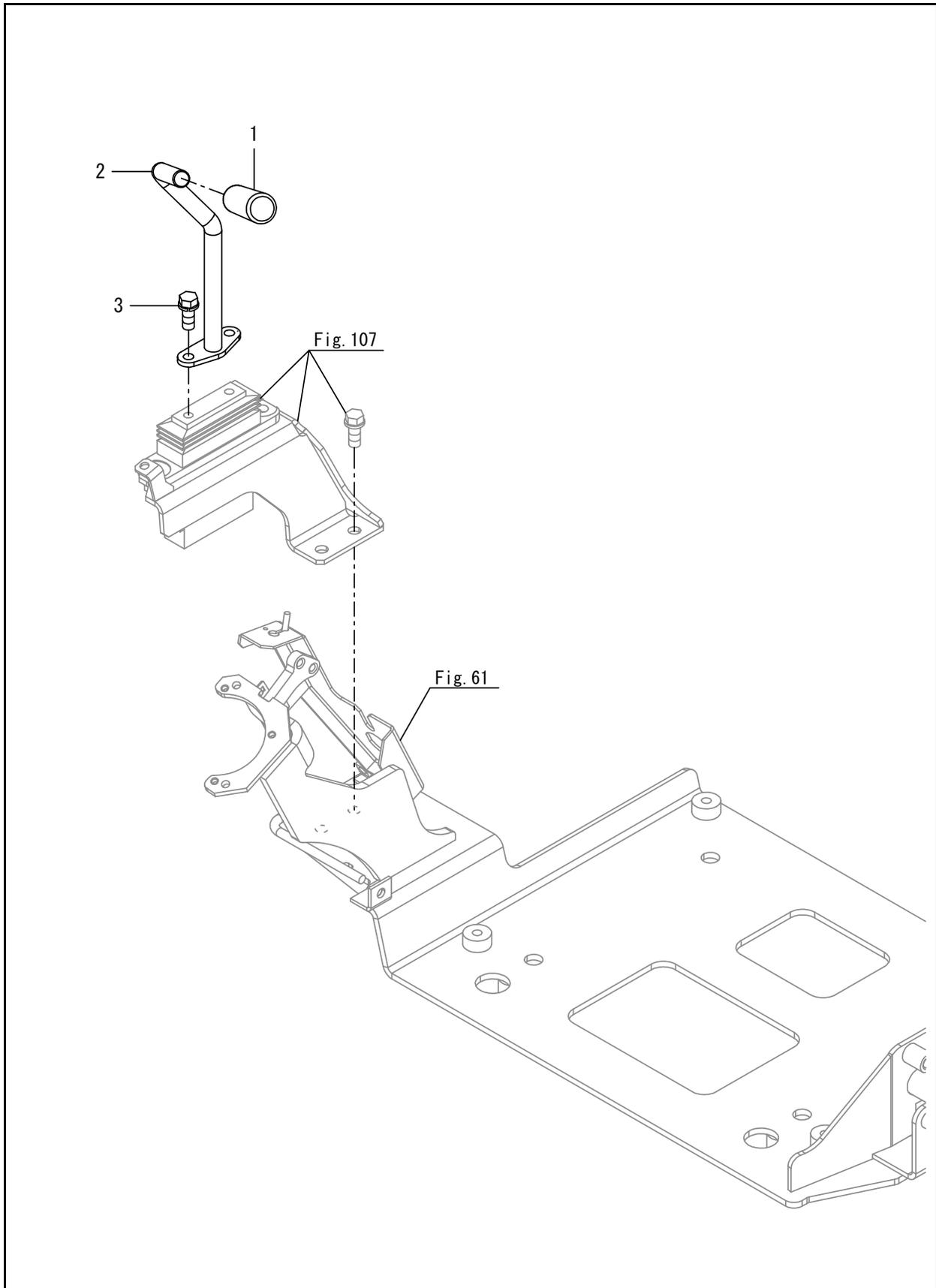
Z80 - COMPACT EXCAVATOR
FIG. 35 - CONTROL EQUIPMENT (TRAVEL)



Z80 - COMPACT EXCAVATOR
FIG. 35 - CONTROL EQUIPMENT (TRAVEL)

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

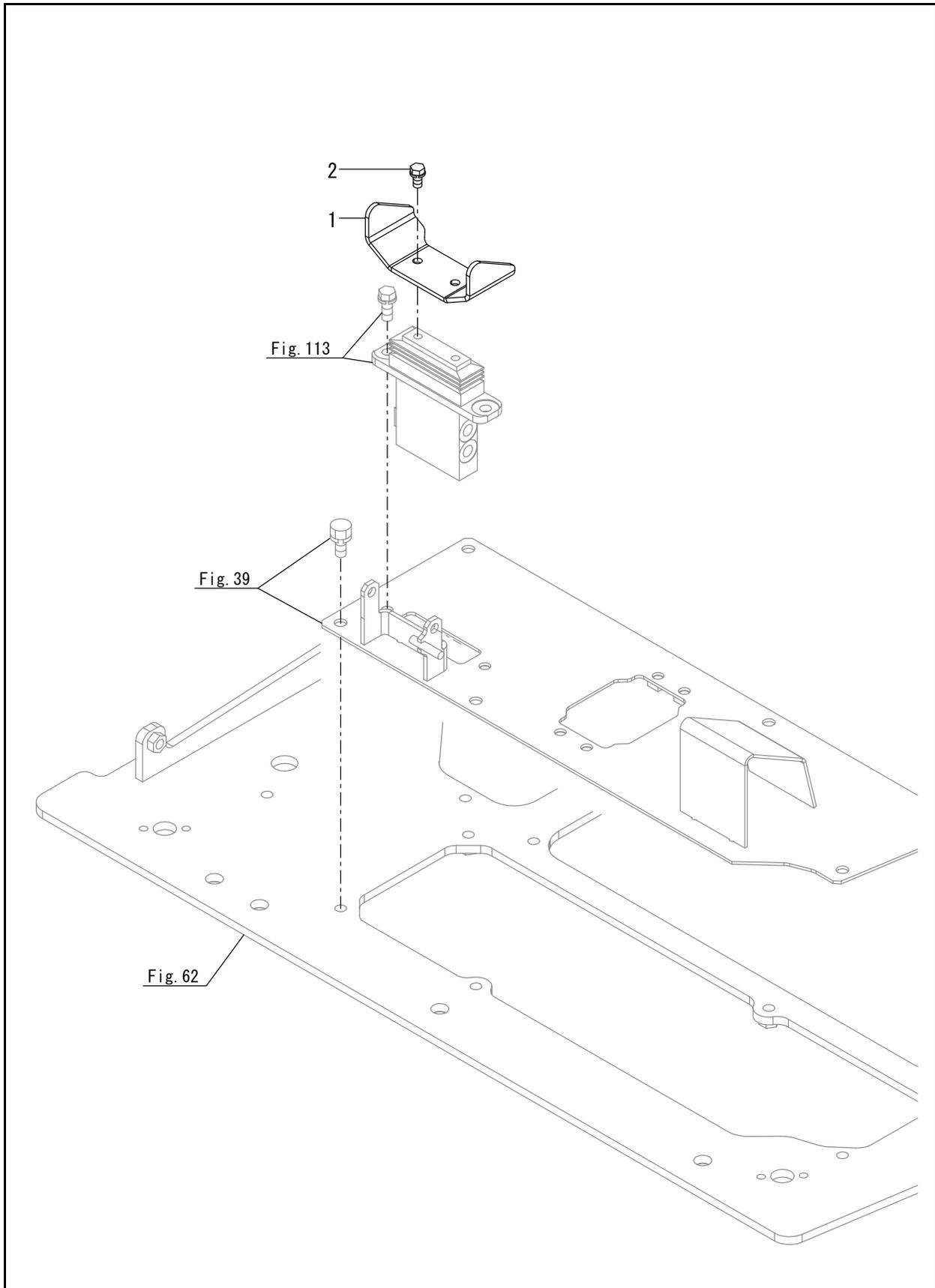
Z80 - COMPACT EXCAVATOR
FIG. 36 - CONTROL EQUIPMENT (BLADE)



Z80 - COMPACT EXCAVATOR
FIG. 36 - CONTROL EQUIPMENT (BLADE)

Ref.			
No.	Part No.	Description	Qty.
1	50281379	GRIP(BLACK	1
2	50281647	LEVER ASSY,BLADE(49)	1
3	50282506	BOLT W/WASHER M8X16	2

Z80 - COMPACT EXCAVATOR
FIG. 37 - CONTROL EQUIPMENT (SWING)

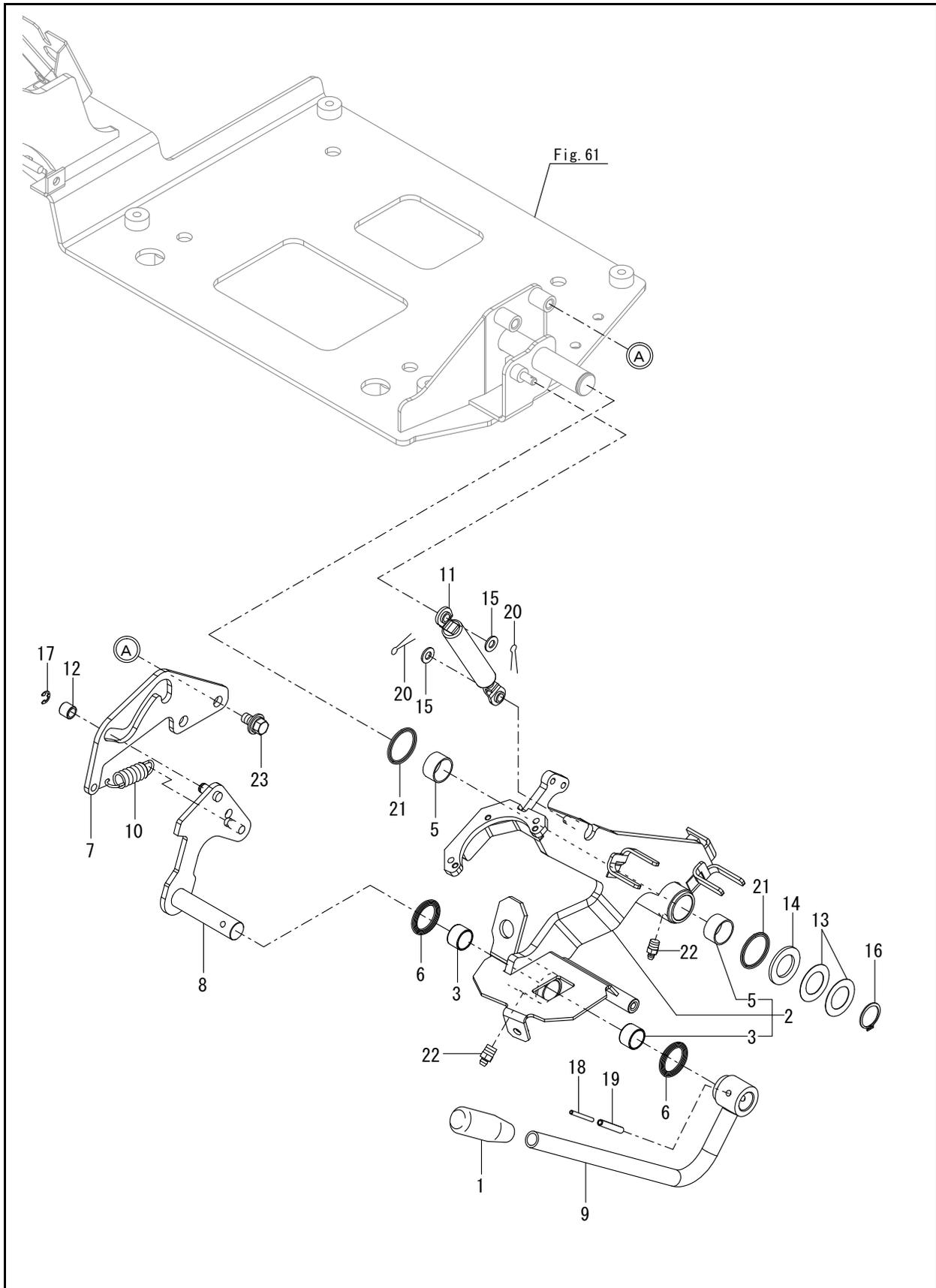


Z80 - COMPACT EXCAVATOR
FIG. 37 - CONTROL EQUIPMENT (SWING)

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

Z80 - COMPACT EXCAVATOR

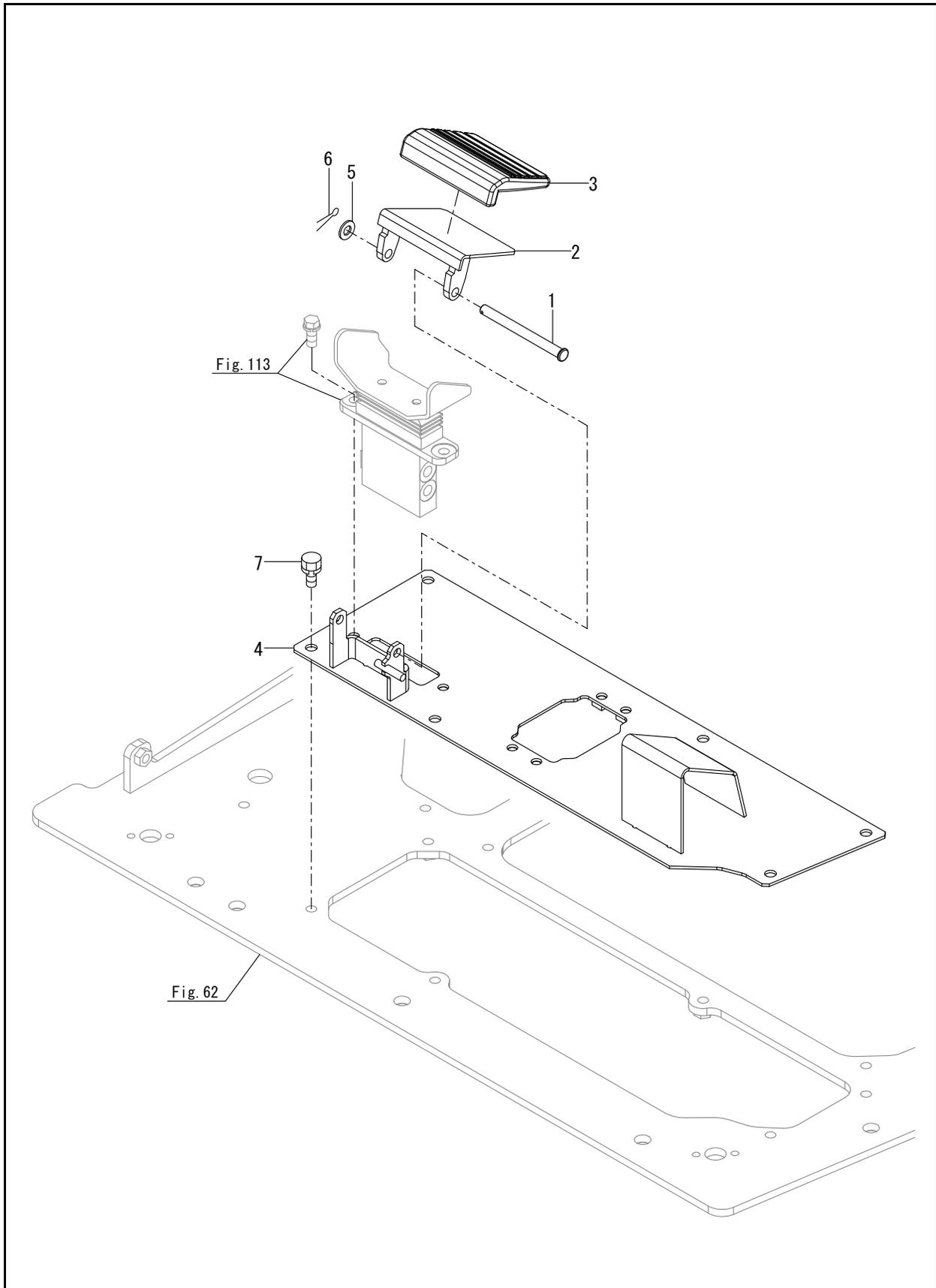
FIG. 38 - CONTROL EQUIPMENT (LOCK LEVER & LEVER STAND)



Z80 - COMPACT EXCAVATOR
FIG. 38 - CONTROL EQUIPMENT (LOCK LEVER & LEVER STAND)

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

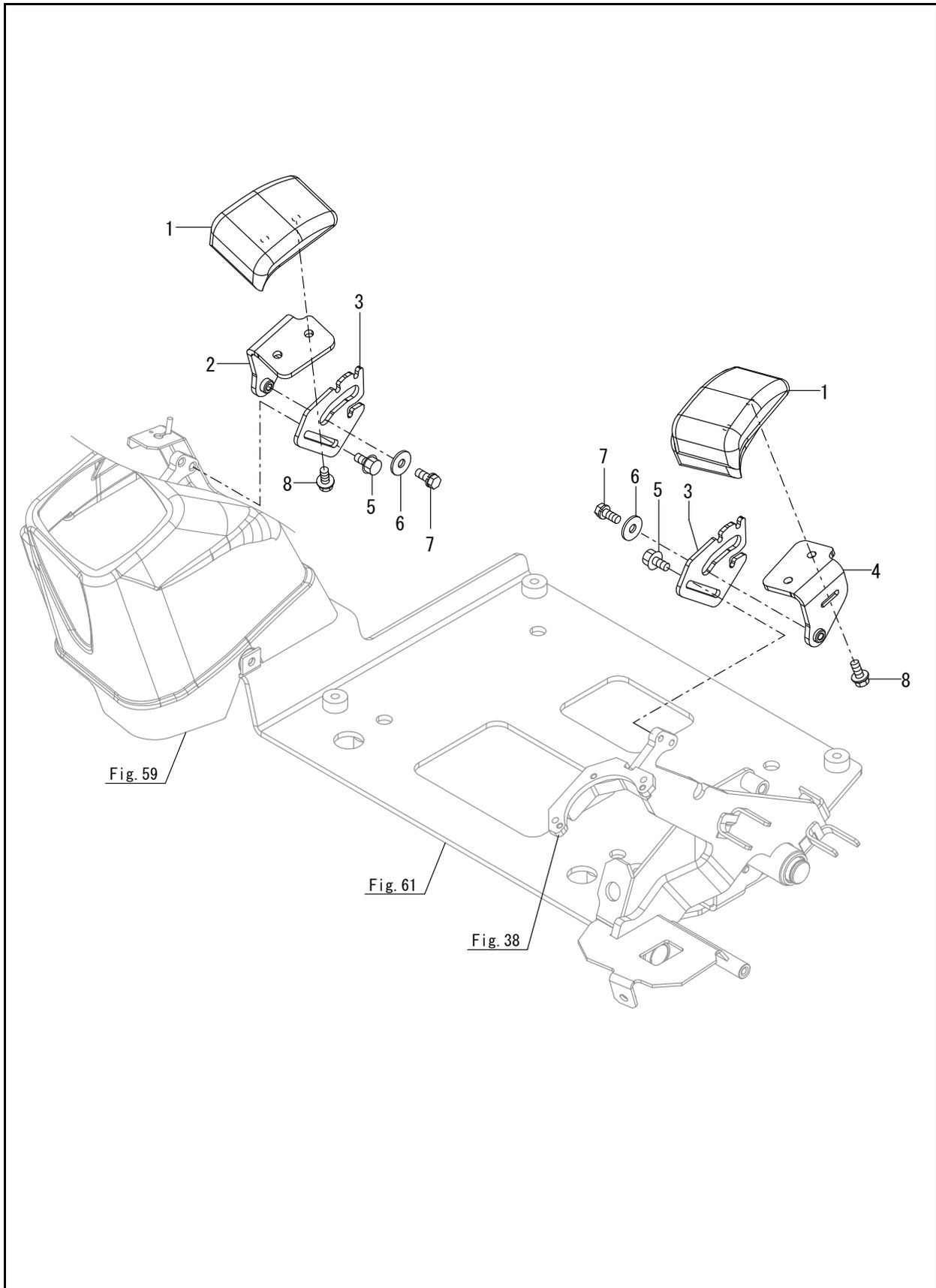
Z80 - COMPACT EXCAVATOR
FIG. 39 - CONTROL EQUIPMENT (PEDAL STAND)



Z80 - COMPACT EXCAVATOR
FIG. 39 - CONTROL EQUIPMENT (PEDAL STAND)

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

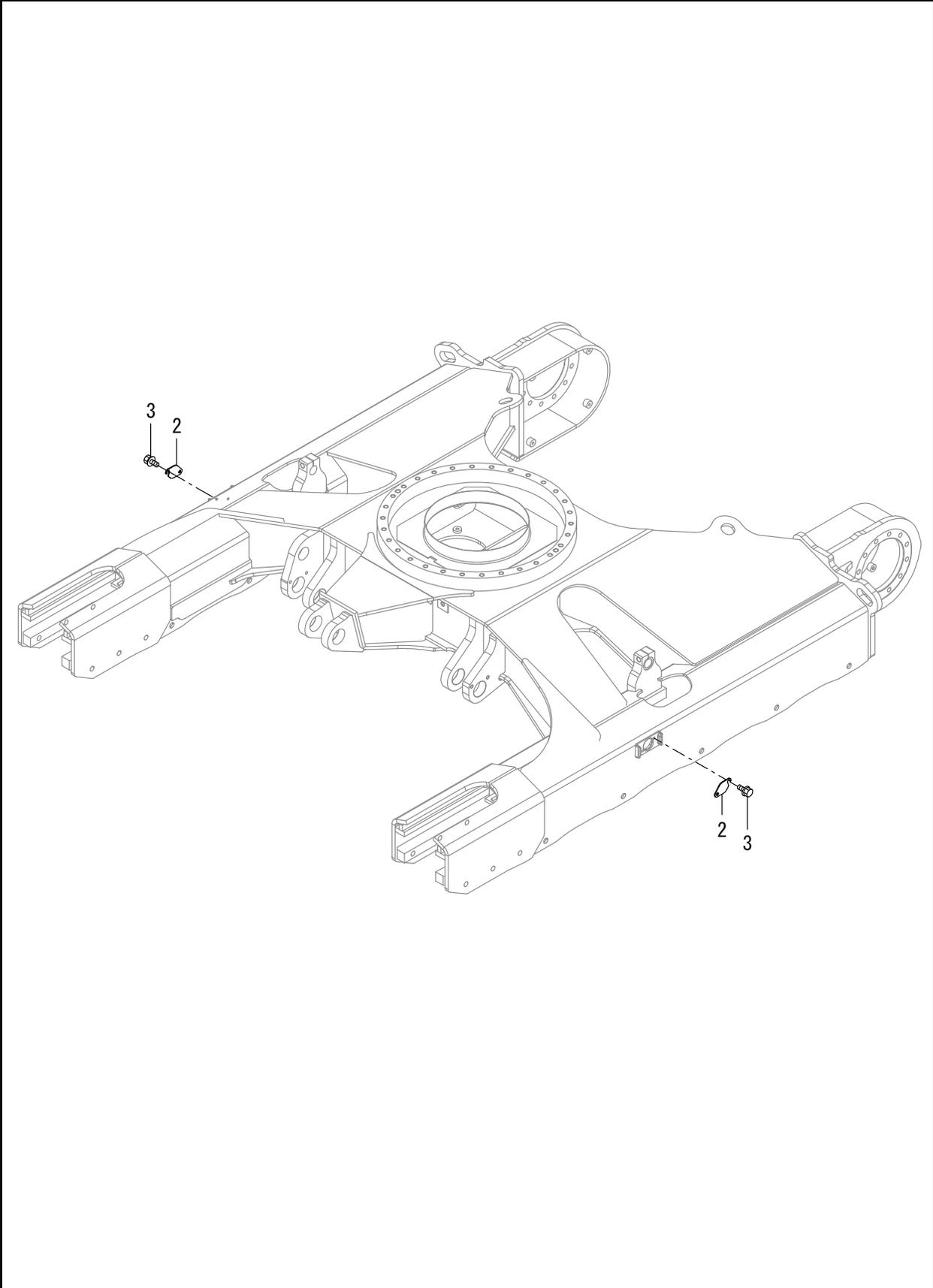
Z80 - COMPACT EXCAVATOR
FIG. 40 - ARM REST



Z80 - COMPACT EXCAVATOR
FIG. 40 - ARM REST

Ref.			
No.	Part No.	Description	Qty.
1	50281043	ARM REST	2
2	50281460	PLATE,GUIDE R ASSY	1
3	50281461	PLATE,ARMREST L/R	2
4	50281462	PLATE,GUIDE L ASSY	1
5	50281318	BOLT 8X 16	4
6	186593	WASHER 8	2
7	50282507	BOLT W/WASHER M8X20	2
8	50282533	BOLT M 8X 16	4

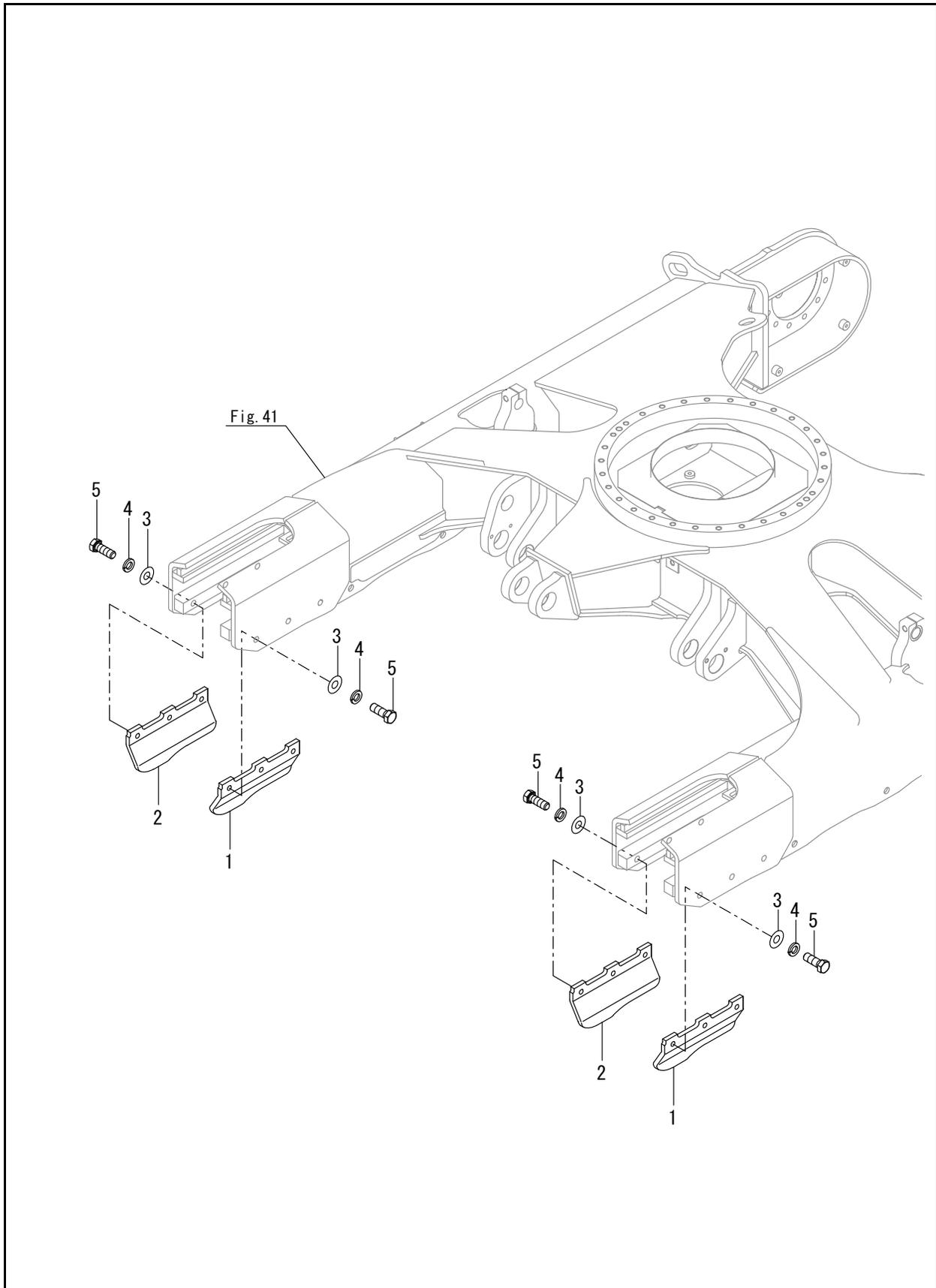
Z80 - COMPACT EXCAVATOR
FIG. 41 - TRACK FRAME



Z80 - COMPACT EXCAVATOR
FIG. 41 - TRACK FRAME

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

Z80 - COMPACT EXCAVATOR
FIG. 42 - CRAWLER GUARD



**Z80 - COMPACT EXCAVATOR
FIG. 42 - CRAWLER GUARD**

Ref.	No.	Part No.	Description	Qty.
	1	50280941	GUARD PLATE LT	2
	2	50280942	GUARD PLATE RT	2
	3	50282382	WASHER 16,POLISHED	12
	4	50282396	SPRING WASHER 16	12
	5	50282570	BOLT M16X 40 PLATED	12

Z80 - COMPACT EXCAVATOR
FIG. 43 - COUNTERWEIGHT

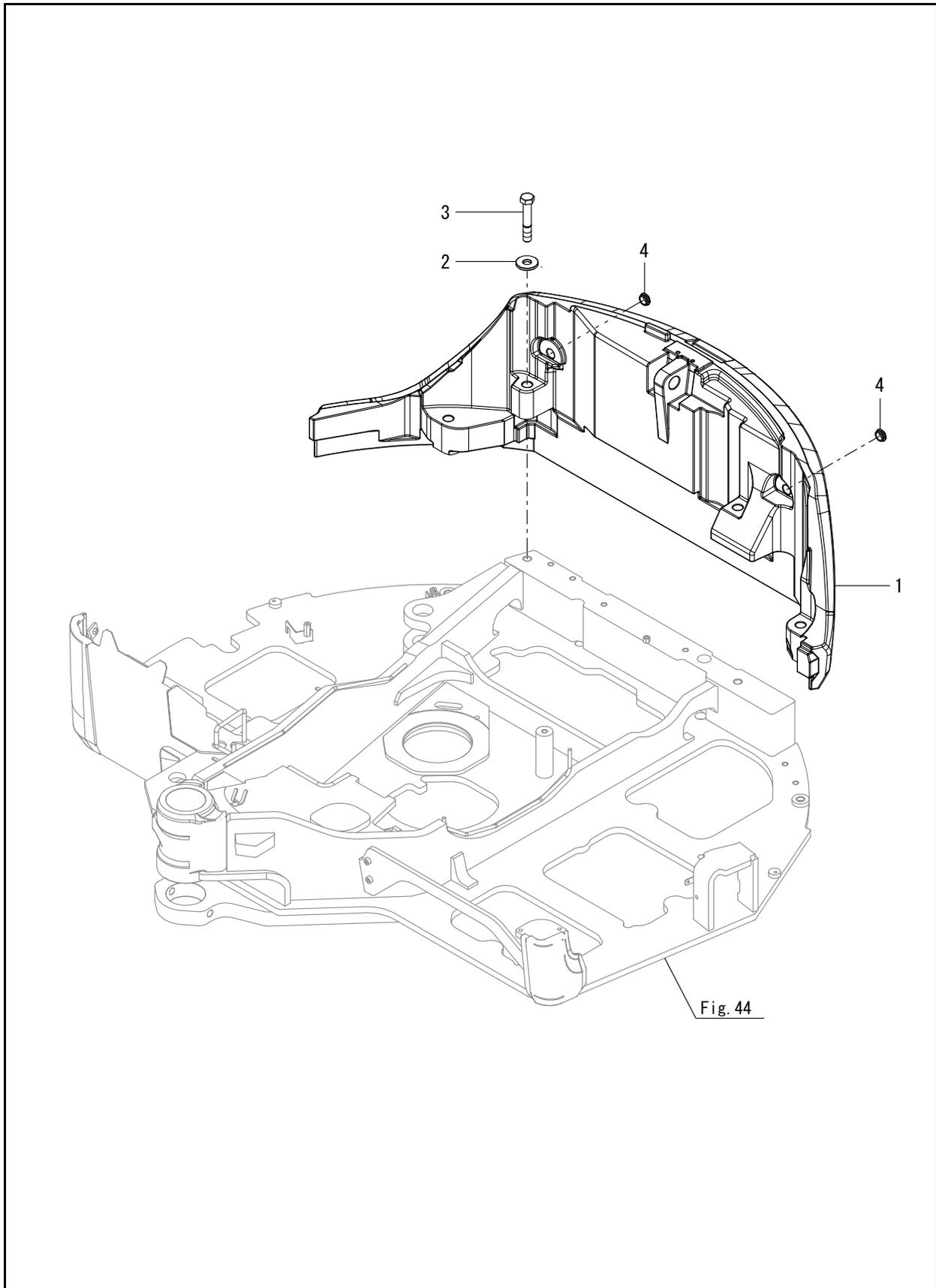
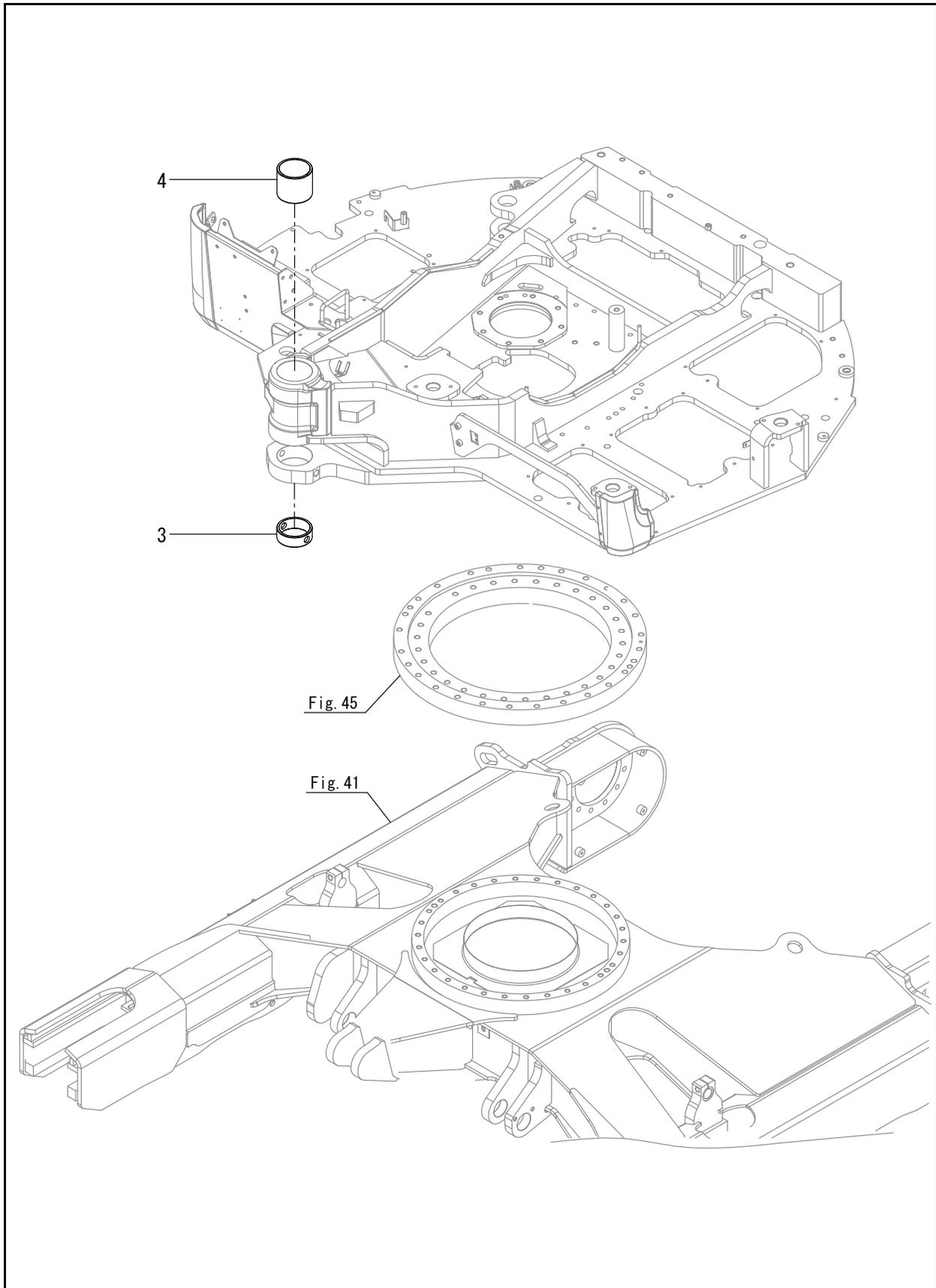


Fig. 44

Z80 - COMPACT EXCAVATOR
FIG. 43 - COUNTERWEIGHT

Ref.	No.	Part No.	Description	Qty.
	1	50282177	COUNTERWEIGHT	1
	2	50280943	WASHER 24.5X65X8	4
	3	50281072	BOLT 24X140	4
	4	50281128	GROMMET 30	2

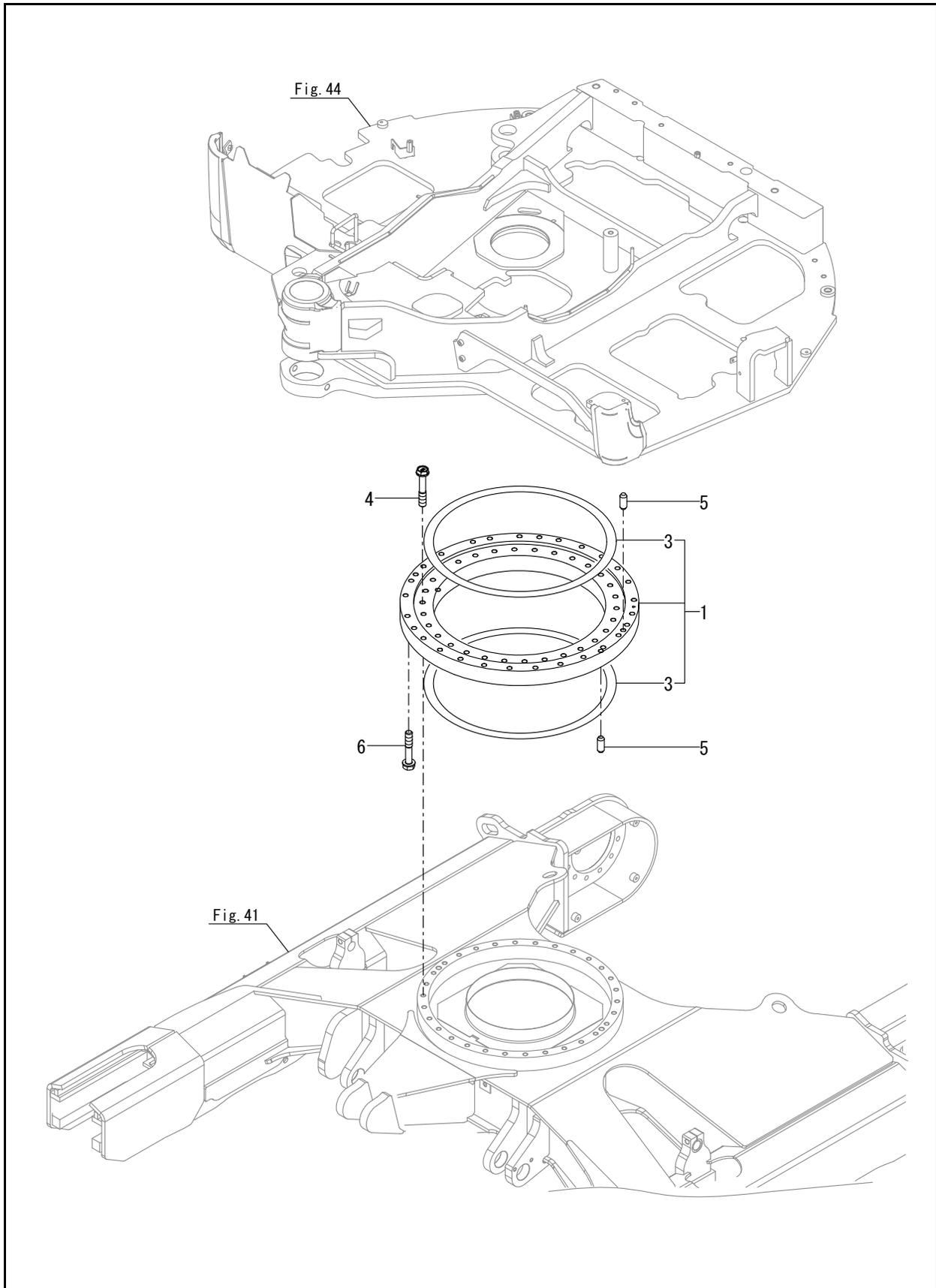
Z80 - COMPACT EXCAVATOR
FIG. 44 - TURNING FRAME



Z80 - COMPACT EXCAVATOR
FIG. 44 - TURNING FRAME

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

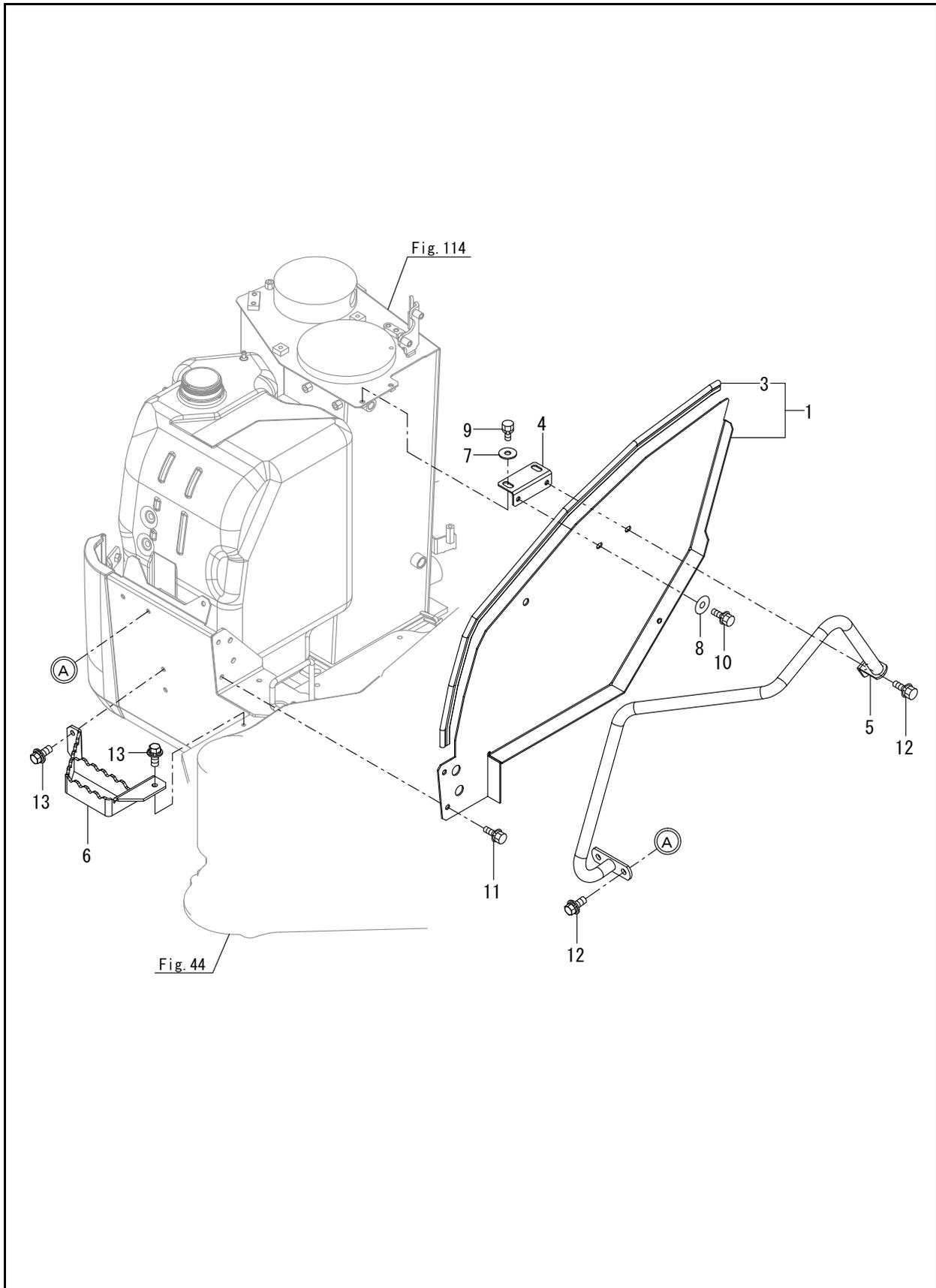
Z80 - COMPACT EXCAVATOR
FIG. 45 - TURNING BEARING



**Z80 - COMPACT EXCAVATOR
FIG. 45 - TURNING BEARING**

Ref.	No.	Part No.	Description	Qty.
	1	50282181	BEARING ASSY,SWING	1
	3	50282182	SEAL	2
	4	50281654	BOLT 10.9 16X90	30
	5	50280861	PIN 16X40,STRAIGHT	4
	6	50281655	BOLT 10.9 16X85	28

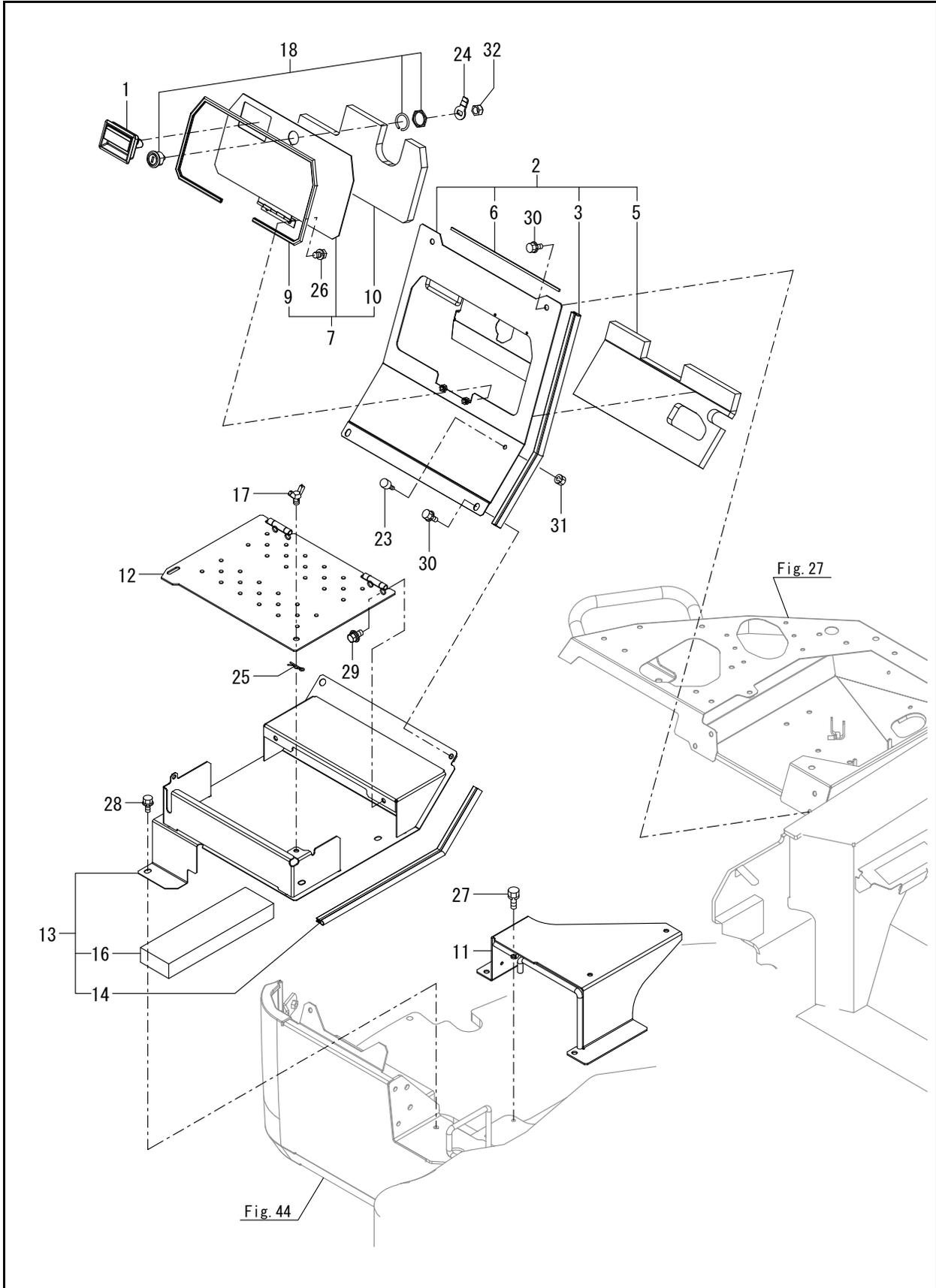
Z80 - COMPACT EXCAVATOR
FIG. 46 - COVER (FUEL TANK SIDE)



**Z80 - COMPACT EXCAVATOR
FIG. 46 - COVER (FUEL TANK SIDE)**

Ref.			
No.	Part No.	Description	Qty.
1	50286383	COVER ASSY	1
3	50281667	SEAL 1130	1
4	50281668	STAY ASSY,COVER	1
5	50286327	GRIP ASSY	1
6	50281671	STEP CMP	1
7	50282387	WASHER 10	2
8	50282387	WASHER 10	1
9	50282516	BOLT W/WASHER M10X25	2
10	50282516	BOLT W/WASHER M10X25	1
11	50282539	BOLT 10X25 W/PLW+SPW	2
12	50282539	BOLT 10X25 W/PLW+SPW	3
13	50282539	BOLT 10X25 W/PLW+SPW	3

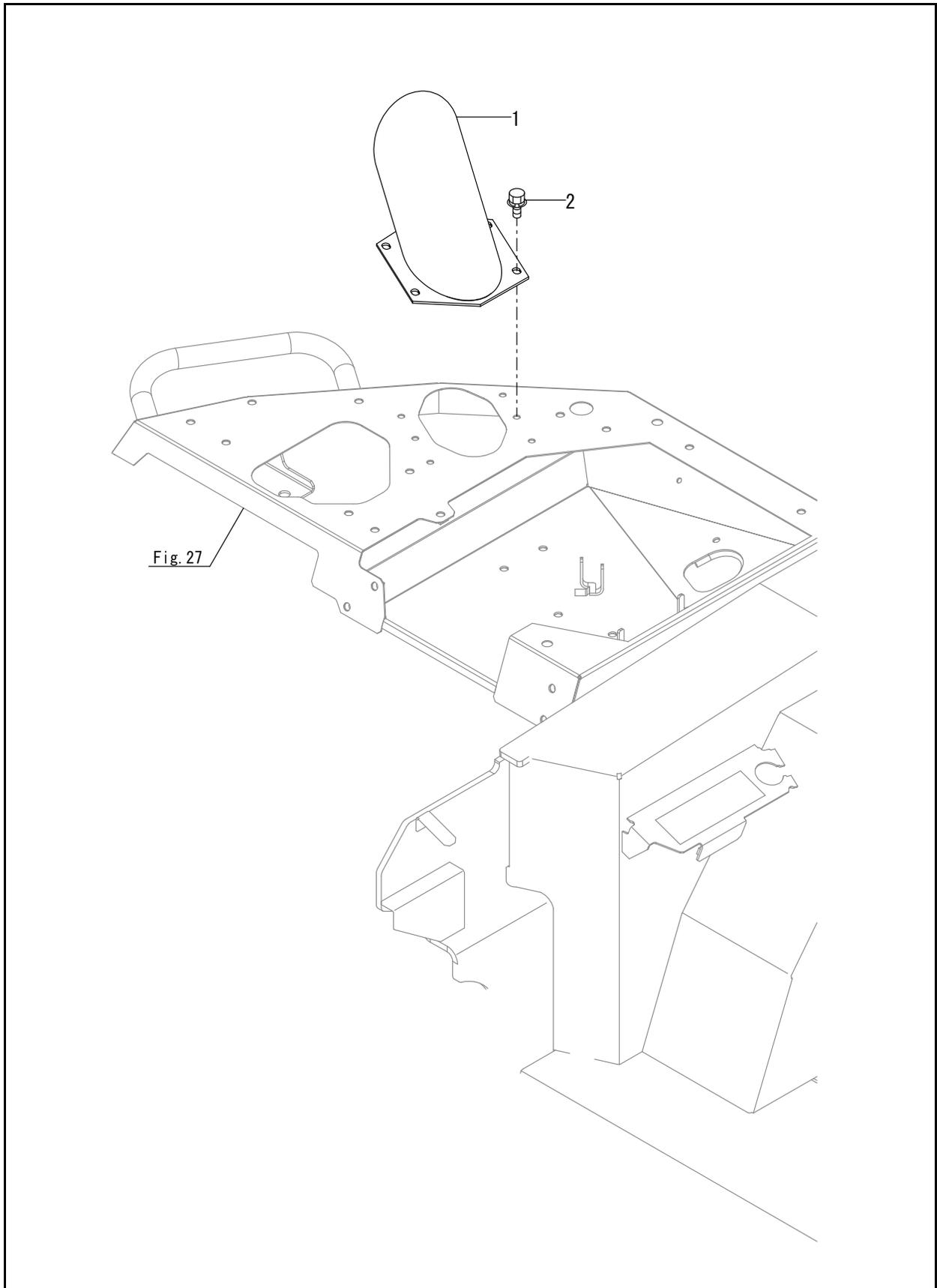
Z80 - COMPACT EXCAVATOR
FIG. 48 - COVER (CENTER)



**Z80 - COMPACT EXCAVATOR
FIG. 48 - COVER (CENTER)**

Ref. No.	Part No.	Description	Qty.
1	50280945	HANDLE, LOCK	1
2	50286385	CENTER COVER ASSY	1
3	50281568	SEAL 540	1
5	50282205	EV A,COVER	1
6	50282206	SEAL 340	1
7	50286387	ENGINE COVER ASSY (use with labels 10A, 10B, 10C)	1
9	50281669	SEAL 1020	1
10	50282208	EV A,COVER	1
10A	50281028	LABEL, ENG,COVER US (see Page 4)	1
10B	50281425	LABEL, ENG ROOM (see Page 4)	1
10C	50281029	LABEL, MUFFLER US (see Page 4)	1
11	50282209	COVER BRACKET	1
12	50282210	TOOL BOX COVER ASSY	1
13	50282211	TOOL BOX BASE	1
14	50281568	SEAL 540	1
16	50286589	PAD	1
17	50280817	WING BOLT,M10X20	1
18	50280889	KEY ASSY, CYLINDER	1
23	50280912	RUBBER	1
24	50280865	LOCK PLATE	1
25	50282416	SNAP PIN 10	1
26	50282505	BOLT M 8X 12	2
27	50282538	BOLT M10X 20	3
28	50282538	BOLT M10X 20	3
29	50282538	BOLT M10X 20	2
30	50282538	BOLT M10X 20	4
31	50282548	NUT M 8	1
32	50282576	U-NUT M10	1

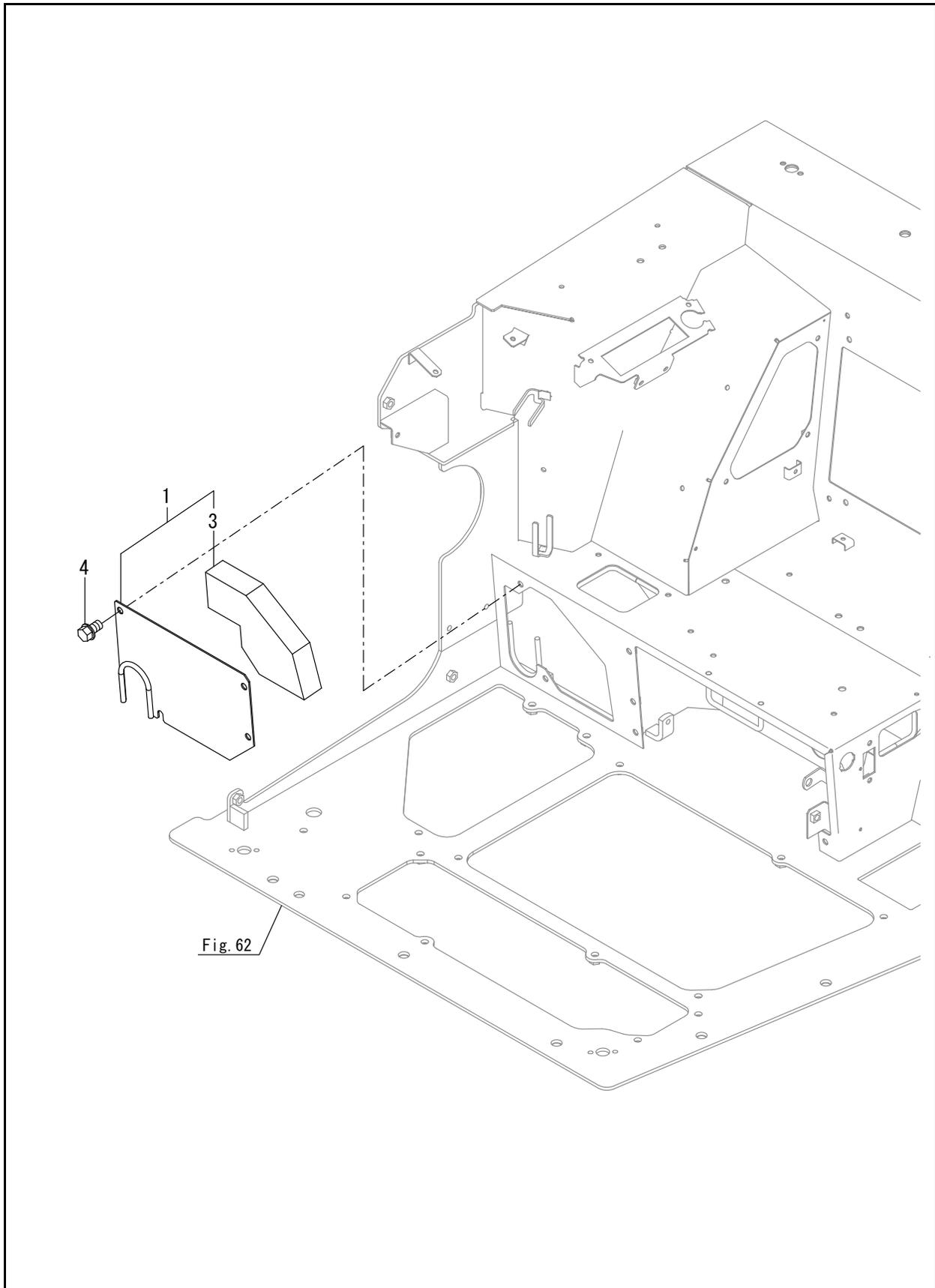
Z80 - COMPACT EXCAVATOR
FIG. 50 - COVER (TAIL)



Z80 - COMPACT EXCAVATOR
FIG. 50 - COVER (TAIL)

Ref.			
No.	Part No.	Description	Qty.
1	50281074	COVER ASSY, EX	1
2	50282533	BOLT M 8X 16	4

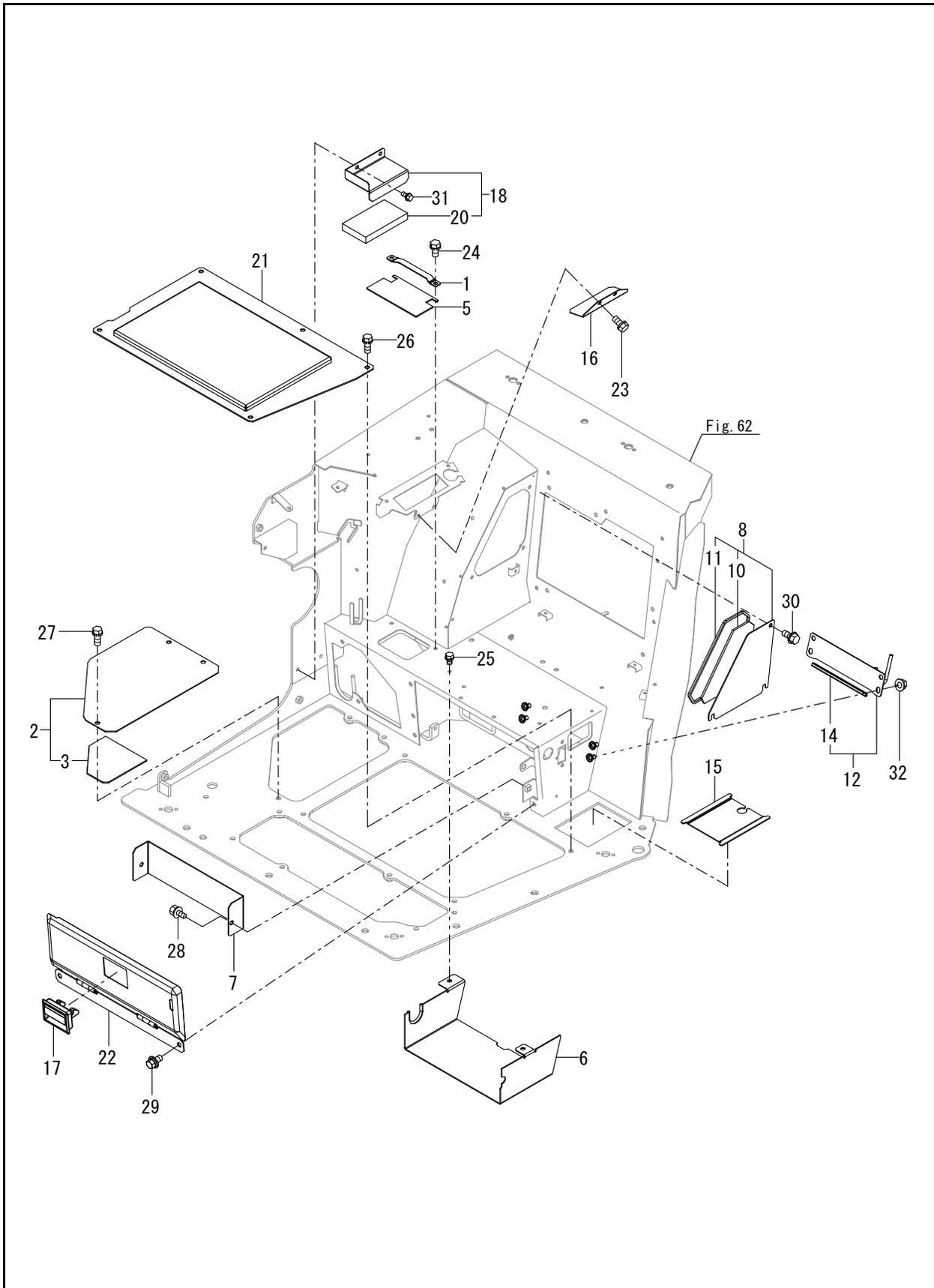
Z80 - COMPACT EXCAVATOR
FIG. 51 - COVER (SEAT MOUNT : A/C)



Z80 - COMPACT EXCAVATOR
FIG. 51 - COVER (SEAT MOUNT : A/C)

Ref.			
No.	Part No.	Description	Qty.
1	50281660	COVER ,A/C HOSE (49)	1
3	50281661	EV,HOSE COVER	1
4	186619	BOLT M10X 16 PLATED	4

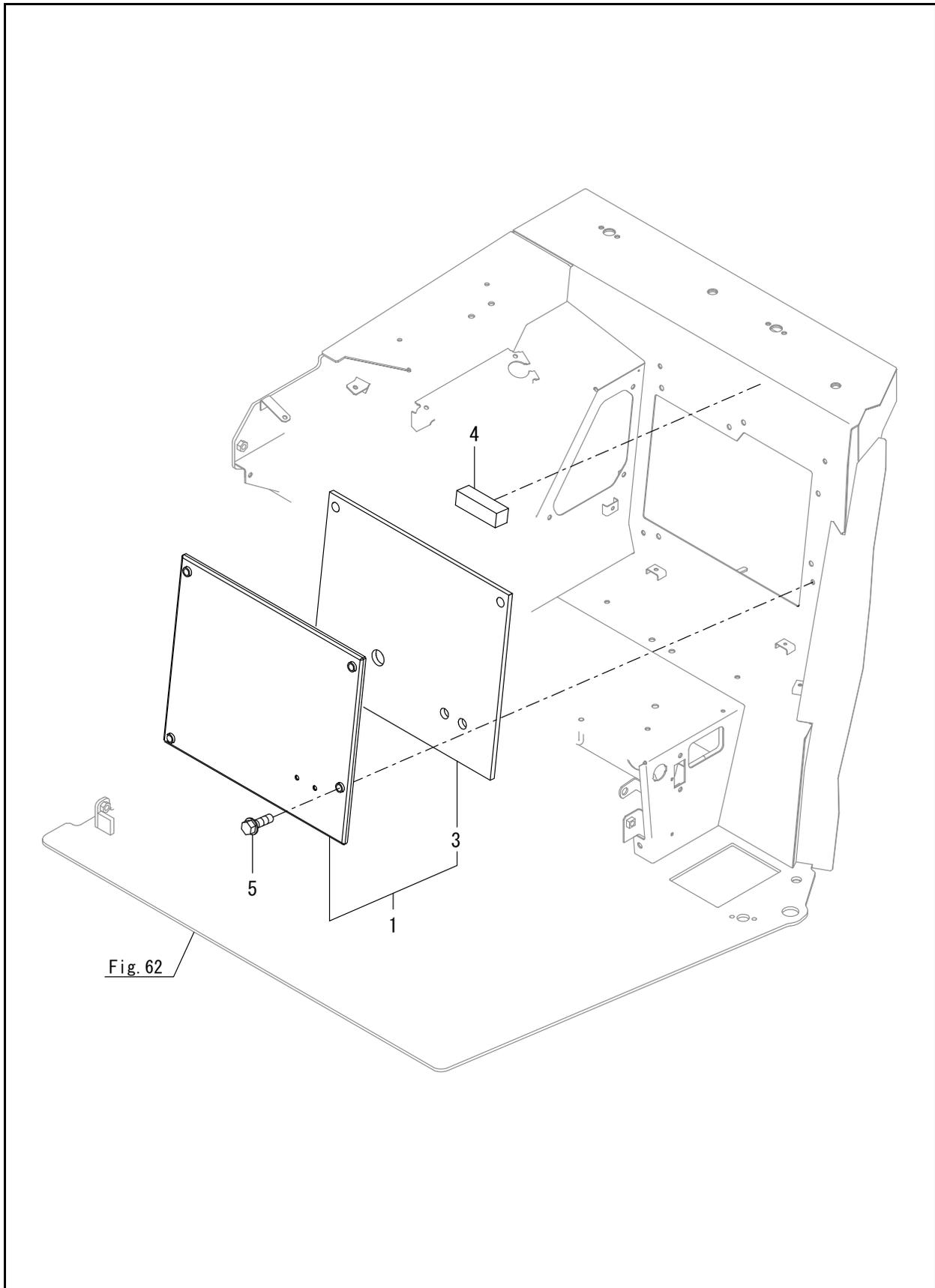
Z80 - COMPACT EXCAVATOR
FIG. 52 - COVER (SEAT MOUNT)



**Z80 - COMPACT EXCAVATOR
FIG. 52 - COVER (SEAT MOUNT)**

Ref. No.	Part No.	Description	Qty.
1	50281656	BRACKET,RUBBER PLATE	1
2	50282183	PLATE A ASSY	1
3	50282184	RUBBER, PLATE A	1
5	50281657	RUBBER PLATE	1
6	50282185	PLATE ASSY,MANUAL	1
7	50282186	COVER,TRAY	1
8	50282188	COVER ASSY,SEAT MT	1
10	50281659	GLASSWOOL,COVER	1
11	50282191	SEAL,COVER SEAT MT	1
12	50282189	COVER ASSY,P HOSE	1
14	50281017	TRIM 195	1
15	50282190	COVER,MULTI (49)	1
16	50281662	COVER,HARNESS	1
17	50280945	HANDLE, LOCK	1
18	50282193	COVER ,FLOOR MAT(49)	1
20	50282194	EV,COVER	1
21	50281675	STEP ASSY (49)	1
22	50281698	COVER ASSY,FL P (49) (use with label 22A)	1
22A	50281037	LABEL, 2-WAY US (see Page 4)	1
23	50282506	BOLT W/WASHER M8X16	2
24	50282506	BOLT W/WASHER M8X16	2
25	50282514	BOLT M10X 16	2
26	50282516	BOLT W/WASHER M10X25	5
27	50282516	BOLT W/WASHER M10X25	3
28	50282538	BOLT M10X 20	2
29	50282538	BOLT M10X 20	2
30	425-34733	BOLT M8 X 16 PLATED	3
31	425-34733	BOLT M8 X 16 PLATED	2
32	50282577	NUT M10	4

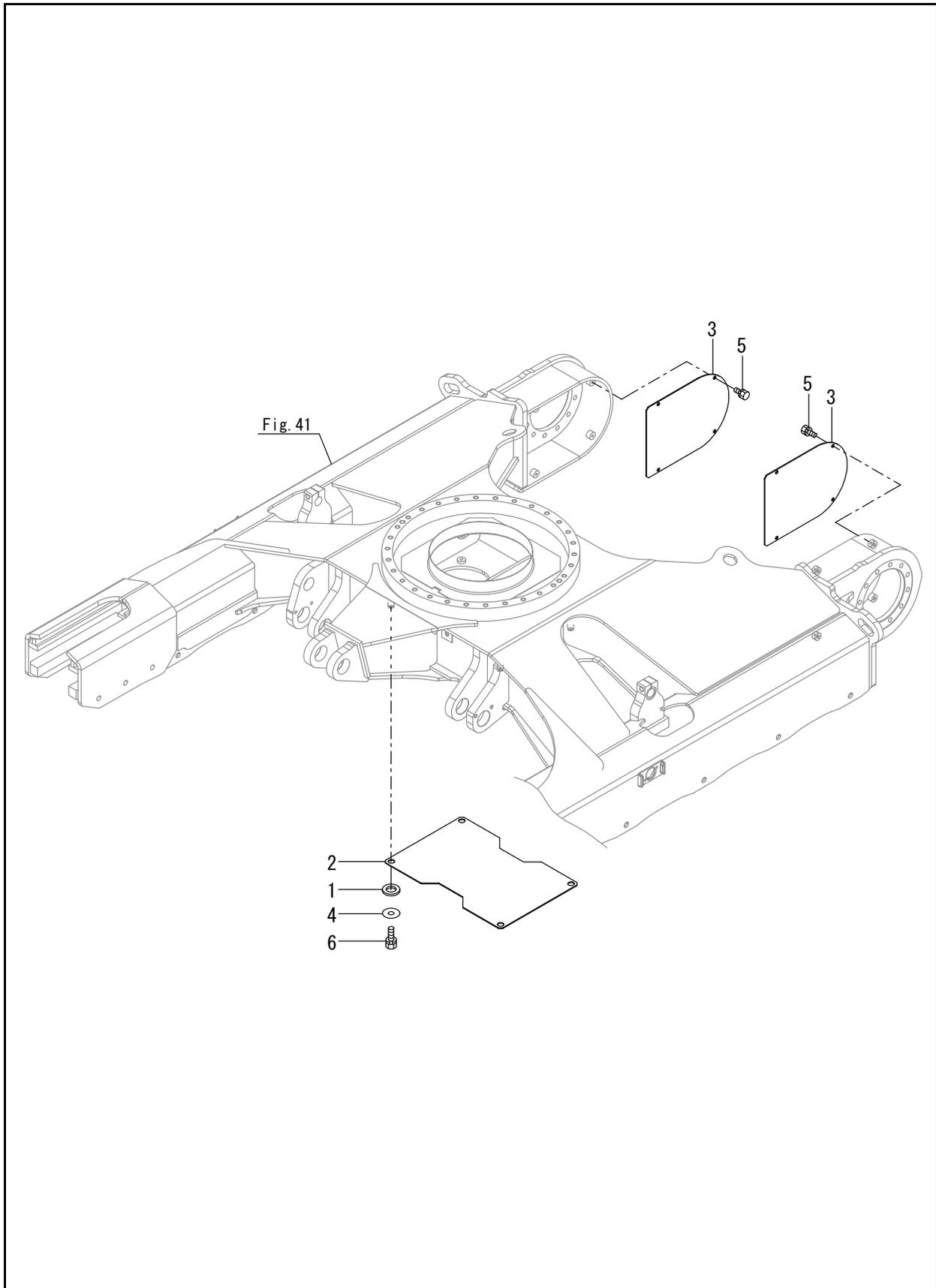
Z80 - COMPACT EXCAVATOR
FIG. 53 - COVER (SEAT MOUNT : REAR)



Z80 - COMPACT EXCAVATOR
FIG. 53 - COVER (SEAT MOUNT : REAR)

Ref.	No.	Part No.	Description	Qty.
	1	50282187	COVER ASSY,SEAT (49)	1
	3	50281658	EV,COVER SEAT MT	1
	4	50281700	CUSHION,SEAT	1
	5	425-34765	BOLT M8 X 25 PLATED	4

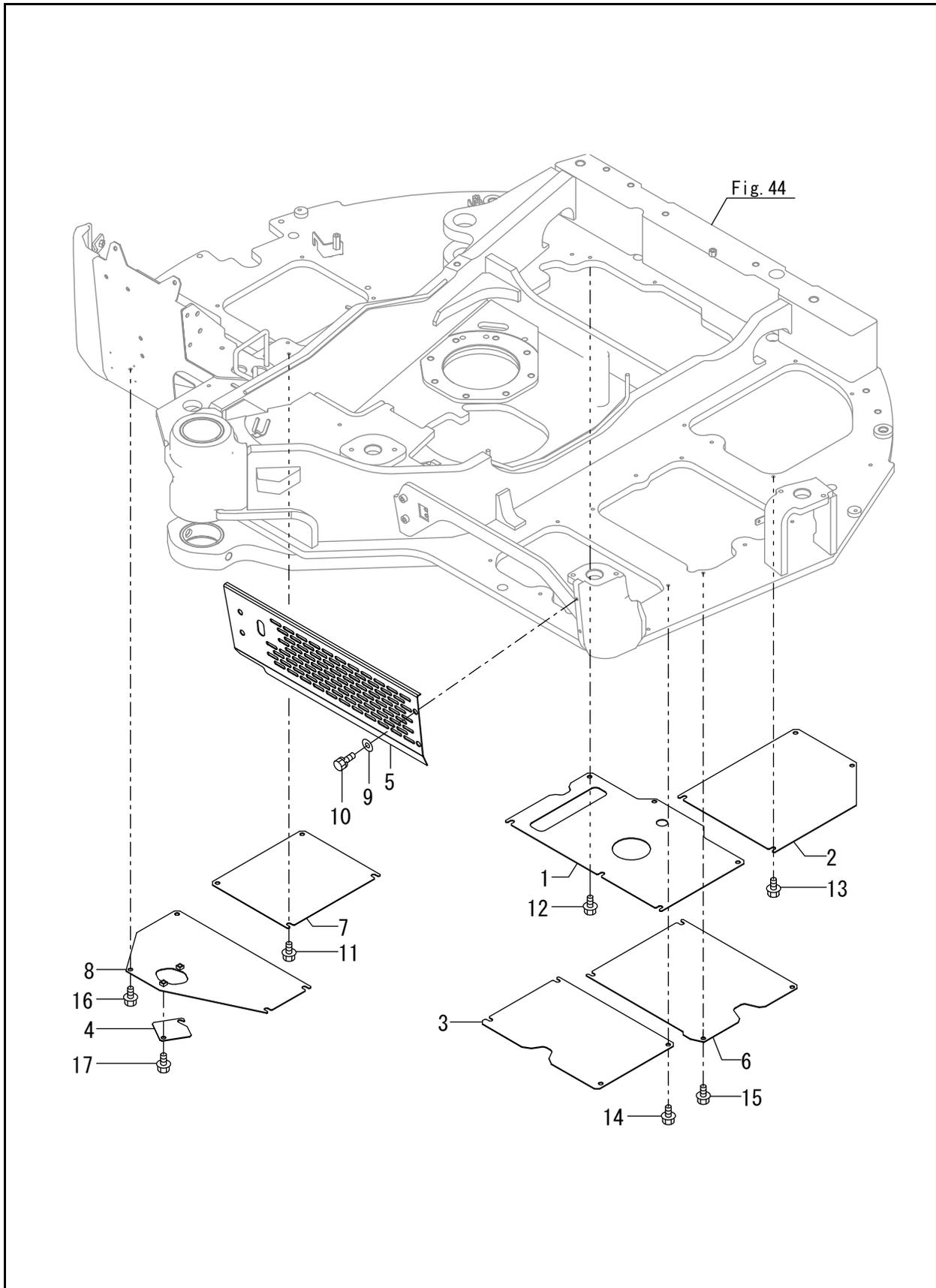
Z80 - COMPACT EXCAVATOR
FIG. 54 - COVER (TRAVEL FRAME)



**Z80 - COMPACT EXCAVATOR
FIG. 54 - COVER (TRAVEL FRAME)**

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

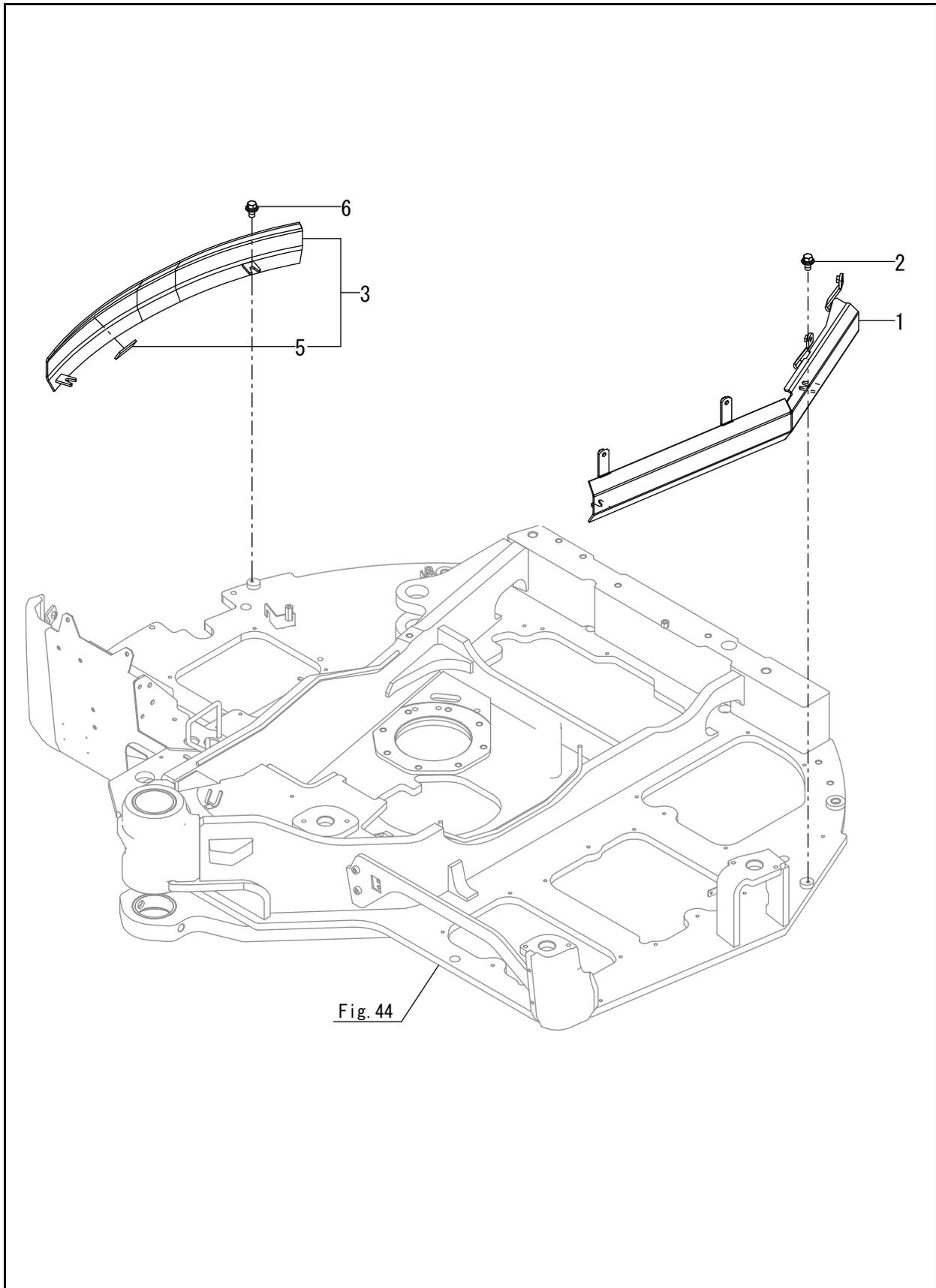
Z80 - COMPACT EXCAVATOR
FIG. 55 - COVER (TURNING FRAME)



**Z80 - COMPACT EXCAVATOR
FIG. 55 - COVER (TURNING FRAME)**

Ref.	No.	Part No.	Description	Qty.
	1	50281664	OIL PAN COVER	1
	2	50282197	PUMP COVER	1
	3	50281665	COVER A, C/V	1
	4	50282198	DRAIN COVER	1
	5	50282200	FRAME COVER	1
	6	50281666	COVER B, C/V	1
	7	50282201	RESERVOIR COVER	1
	8	50282202	COVER ASSY	1
	9	138111	WASHER/POLISHED	4
	10	50282514	BOLT M10X 16	4
	11	186619	BOLT M10X 16 PLATED	4
	12	186619	BOLT M10X 16 PLATED	6
	13	186619	BOLT M10X 16 PLATED	4
	14	186619	BOLT M10X 16 PLATED	4
	15	186619	BOLT M10X 16 PLATED	4
	16	186619	BOLT M10X 16 PLATED	4
	17	186619	BOLT M10X 16 PLATED	2

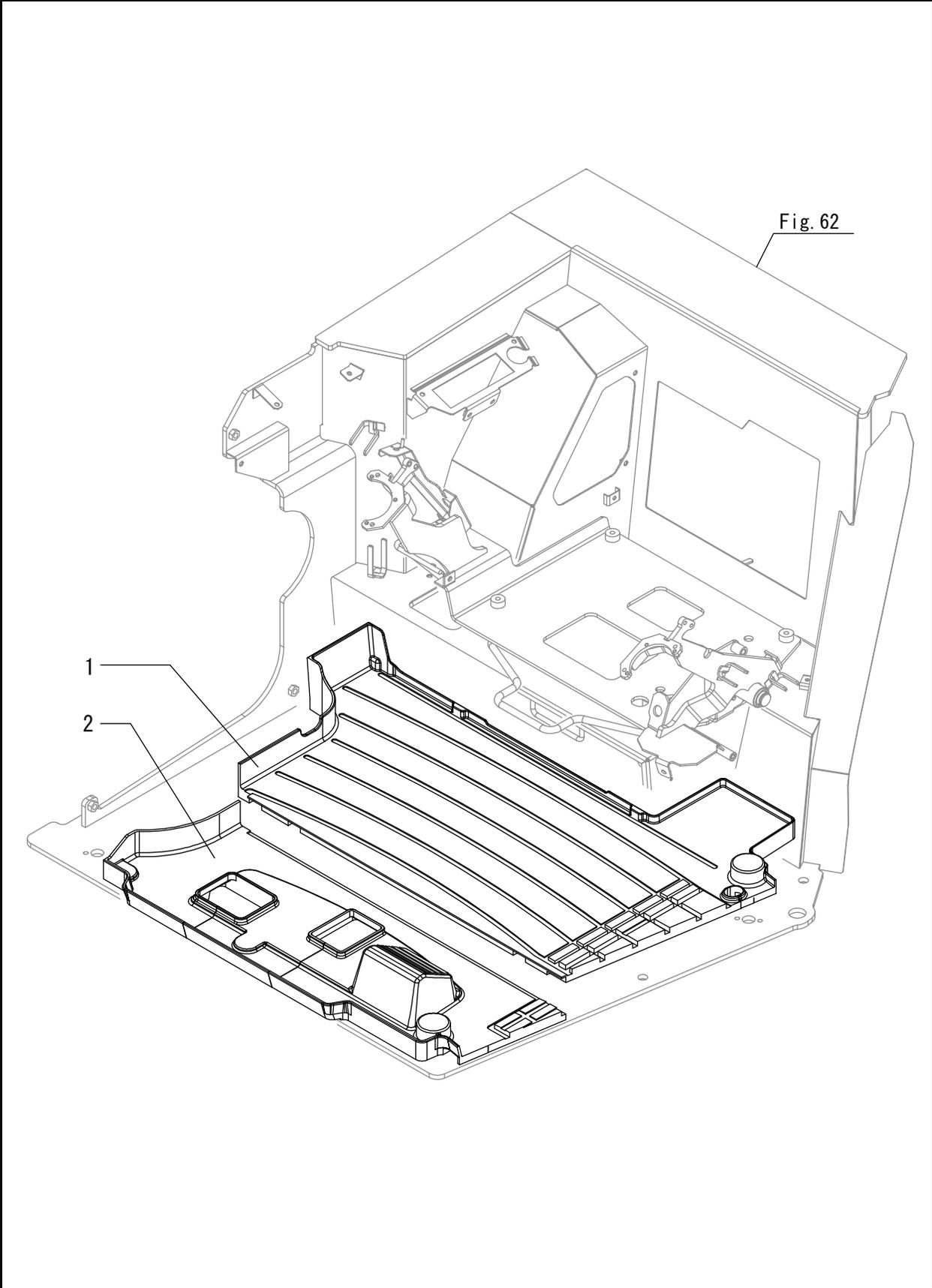
Z80 - COMPACT EXCAVATOR
FIG. 56 - FRAME GUARD



Z80 - COMPACT EXCAVATOR
FIG. 56 - FRAME GUARD

Ref.	No.	Part No.	Description	Qty.
	1	50282192	GUARD FRAME LT (use with labels 1A, 1B)	1
	1A	50281172	LABEL, SUPPORT US (see Page 4)	1
	1B	50281023	LABEL, GREASE CYL. (see Page 4)	1
	2	50282539	BOLT 10X25 W/PLW+SPW	2
	3	50282196	GUARD FRAME RT (use with label 5A)	1
	5	50282195	RUBBER, PLATE	1
	5A	50281023	LABEL, GREASE CYL. (see Page 4)	1
	6	50282539	BOLT 10X25 W/PLW+SPW	2

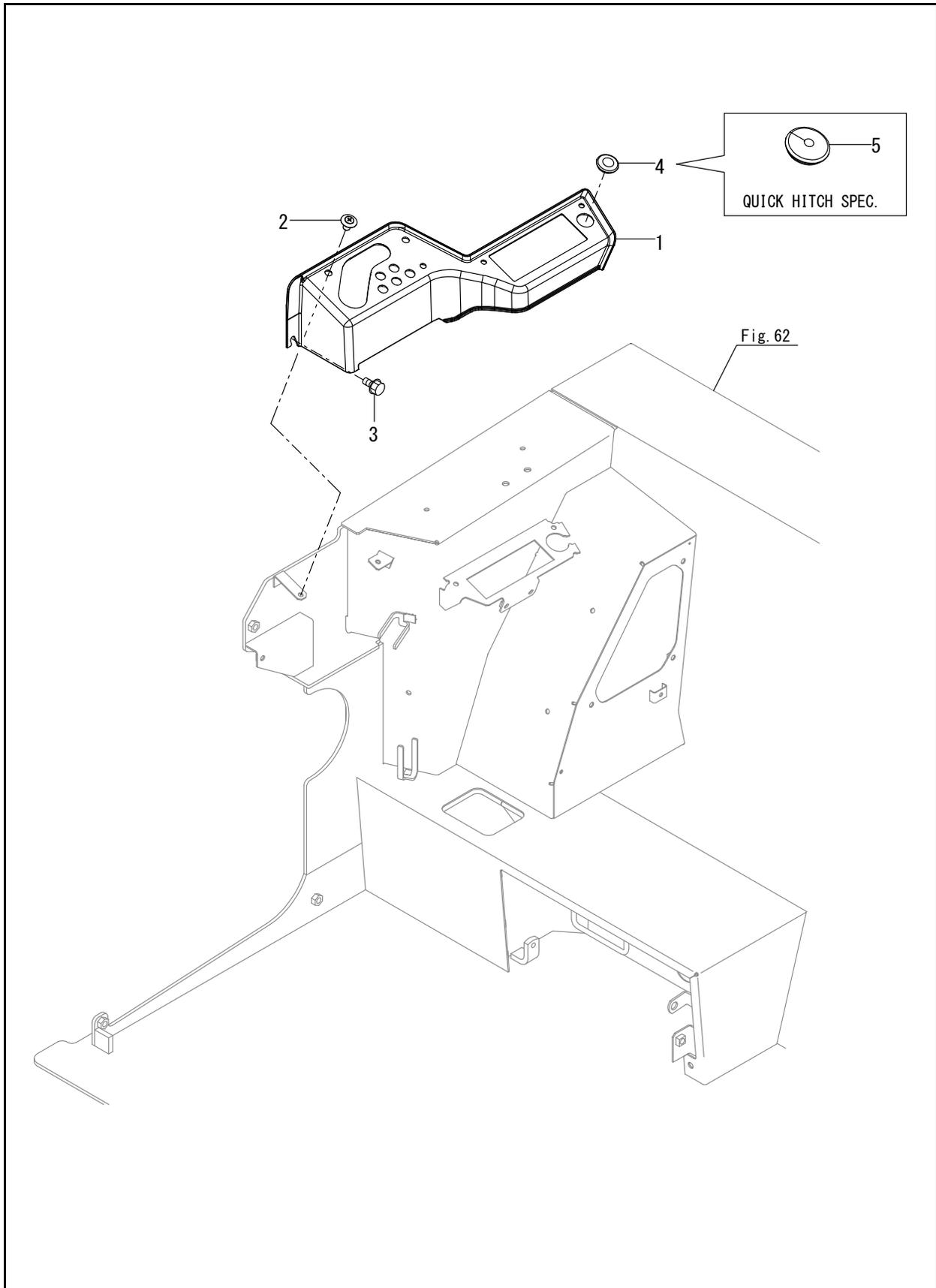
Z80 - COMPACT EXCAVATOR
FIG. 57 - FLOOR MAT



Z80 - COMPACT EXCAVATOR
FIG. 57 - FLOOR MAT

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

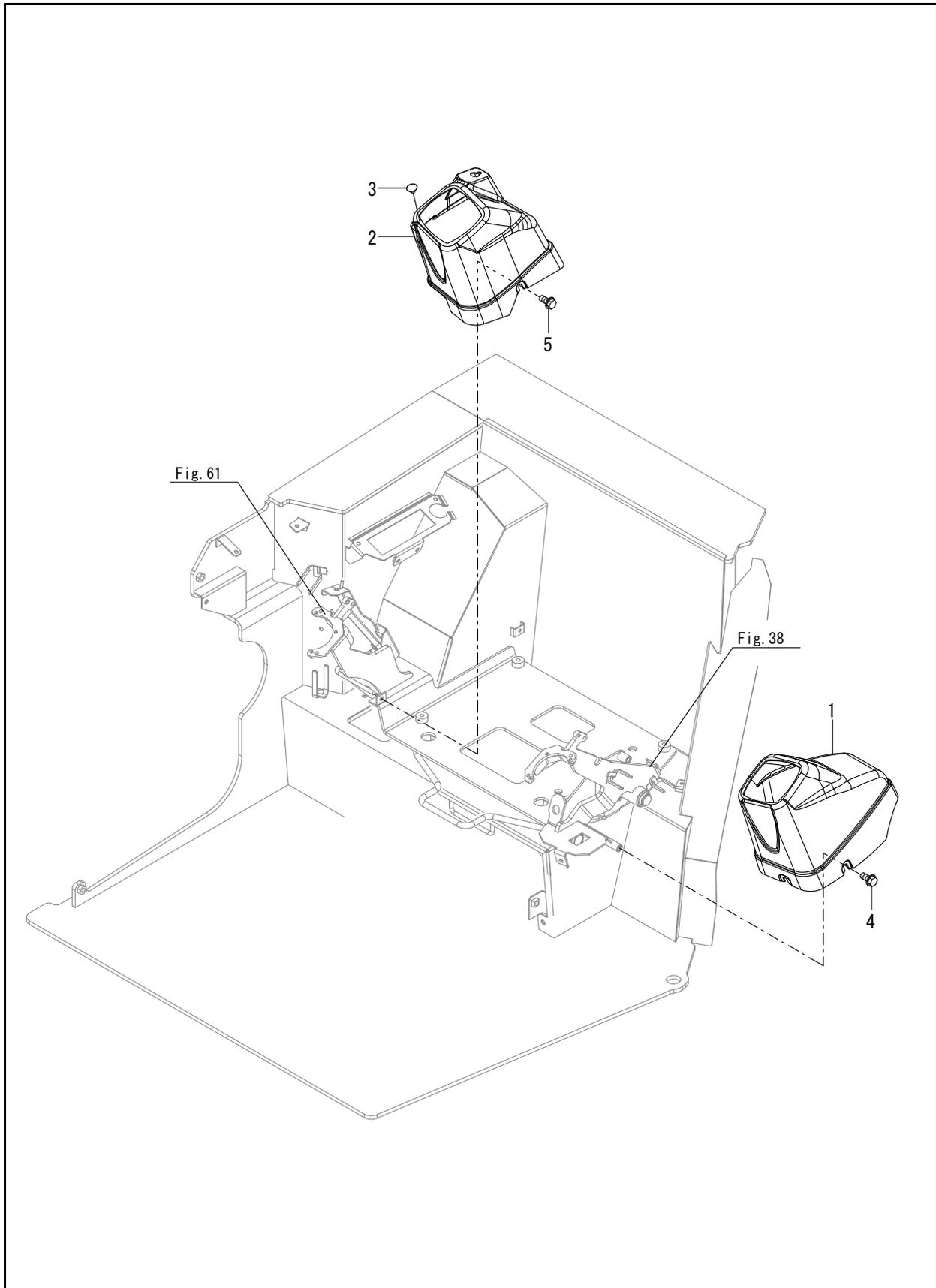
Z80 - COMPACT EXCAVATOR
FIG. 58 - INSTRUMENT PANEL



Z80 - COMPACT EXCAVATOR
FIG. 58 - INSTRUMENT PANEL

Ref.	No.	Part No.	Description	Qty.
	1	50281540	CONSOLE	1
	2	50280947	CLIP	4
	3	50281318	BOLT 8X 16	1
	4	50281373	PLUG	1
	5	50281373	PLUG	1

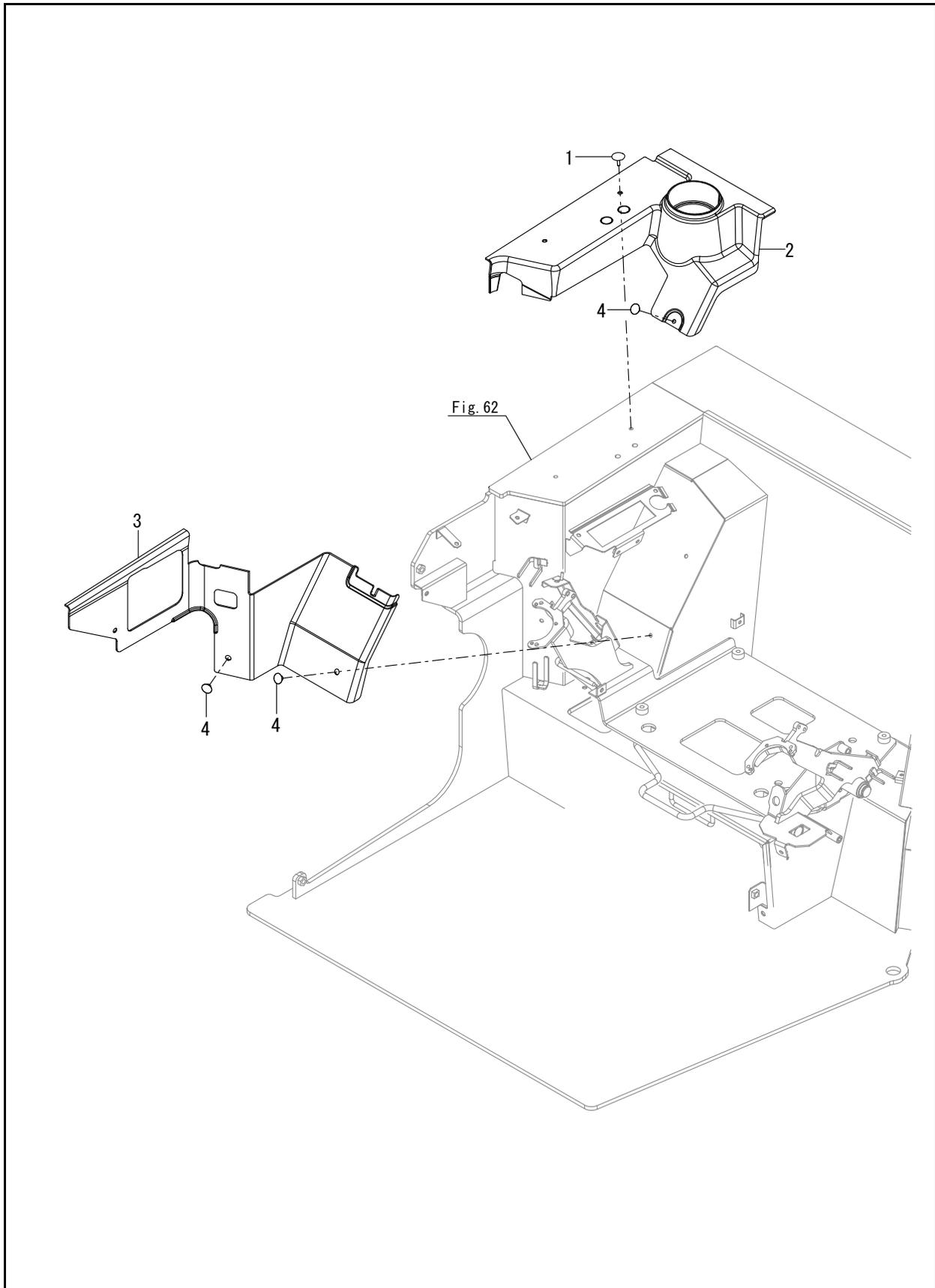
Z80 - COMPACT EXCAVATOR
FIG. 59 - LEVER BOX



Z80 - COMPACT EXCAVATOR
FIG. 59 - LEVER BOX

Ref.	No.	Part No.	Description	Qty.
	1	50281538	LEVER,BOX L	1
	2	50281539	LEVER,BOX R	1
	3	50280947	CLIP	1
	4	50281318	BOLT 8X 16	3
	5	50281318	BOLT 8X 16	2

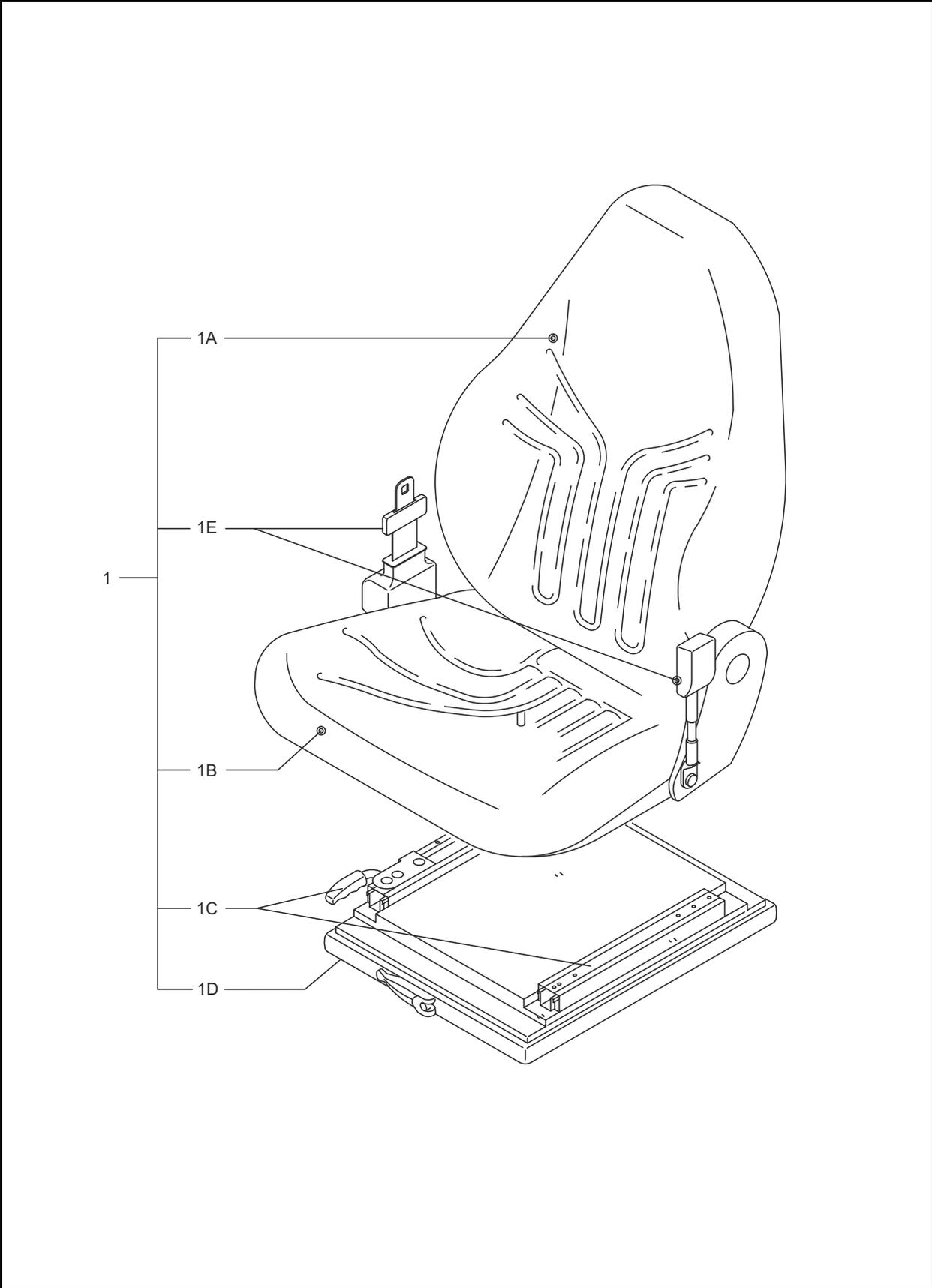
Z80 - COMPACT EXCAVATOR
FIG. 60 - SIDE COVER



Z80 - COMPACT EXCAVATOR
FIG. 60 - SIDE COVER

Ref.	No.	Part No.	Description	Qty.
1	50280782	CLIP		2
2	50281541	SIDE COVER A		1
3	50281542	SIDE COVER B		1
4	50282362	CLIP		3

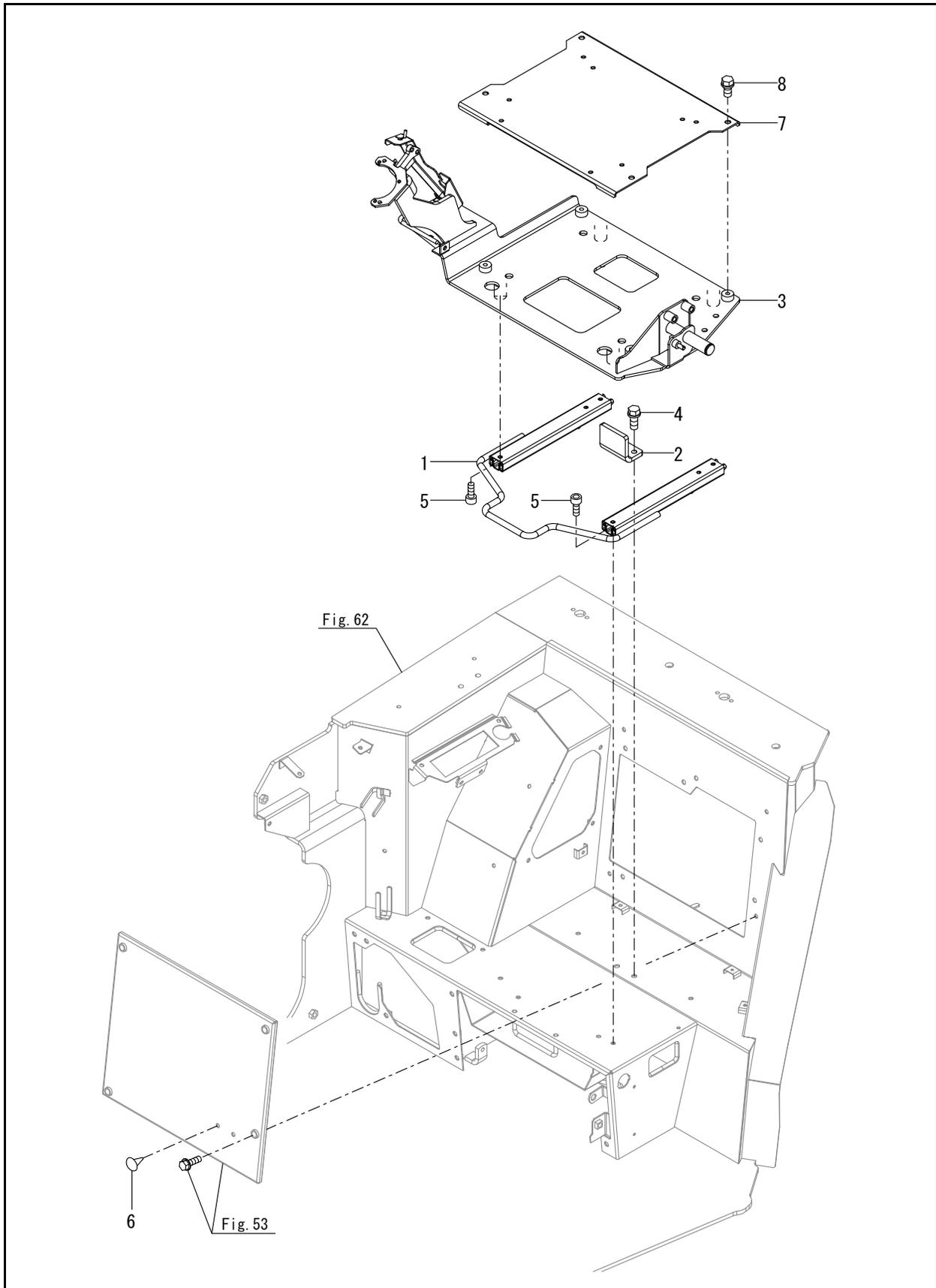
**Z80 - COMPACT EXCAVATOR
SEAT**



Z80 - COMPACT EXCAVATOR SEAT

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

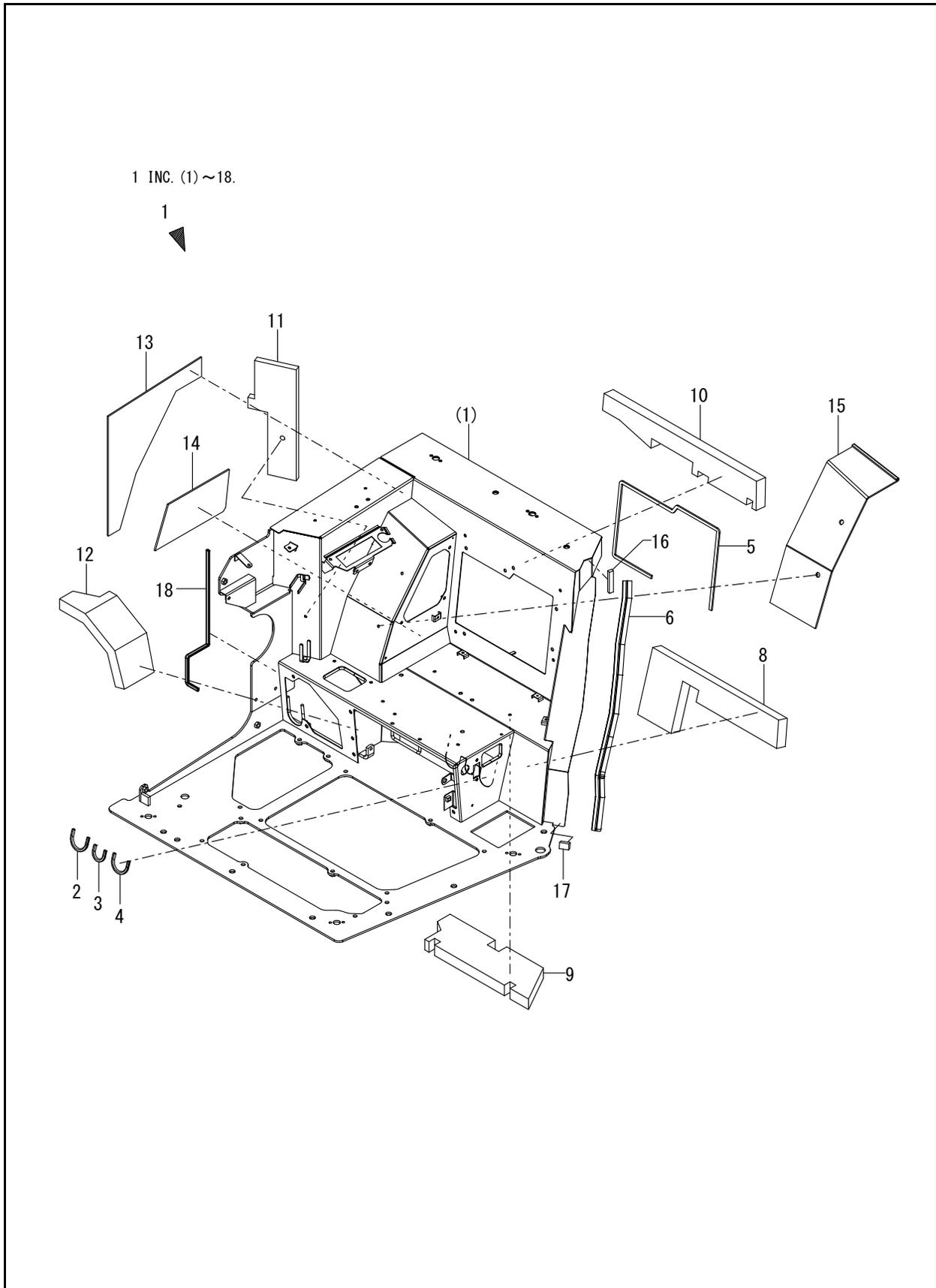
Z80 - COMPACT EXCAVATOR
FIG. 61 - SEAT SLIDE



Z80 - COMPACT EXCAVATOR
FIG. 61 - SEAT SLIDE

Ref.	No.	Part No.	Description	Qty.
	1	50281688	SLIDE ASSY,SEAT	1
	2	50281697	PLATE,STOPPER	1
	3	50281699	FRAME ASSY,SLIDE	1
	4	50282516	BOLT W/WASHER M10X25	2
	5	50282585	BOLT, M8X16	8
	6	50281050	CLIP	2
	7	50281689	PLATE,SEAT EX (49)	1
	8	50282514	BOLT M10X 16	4

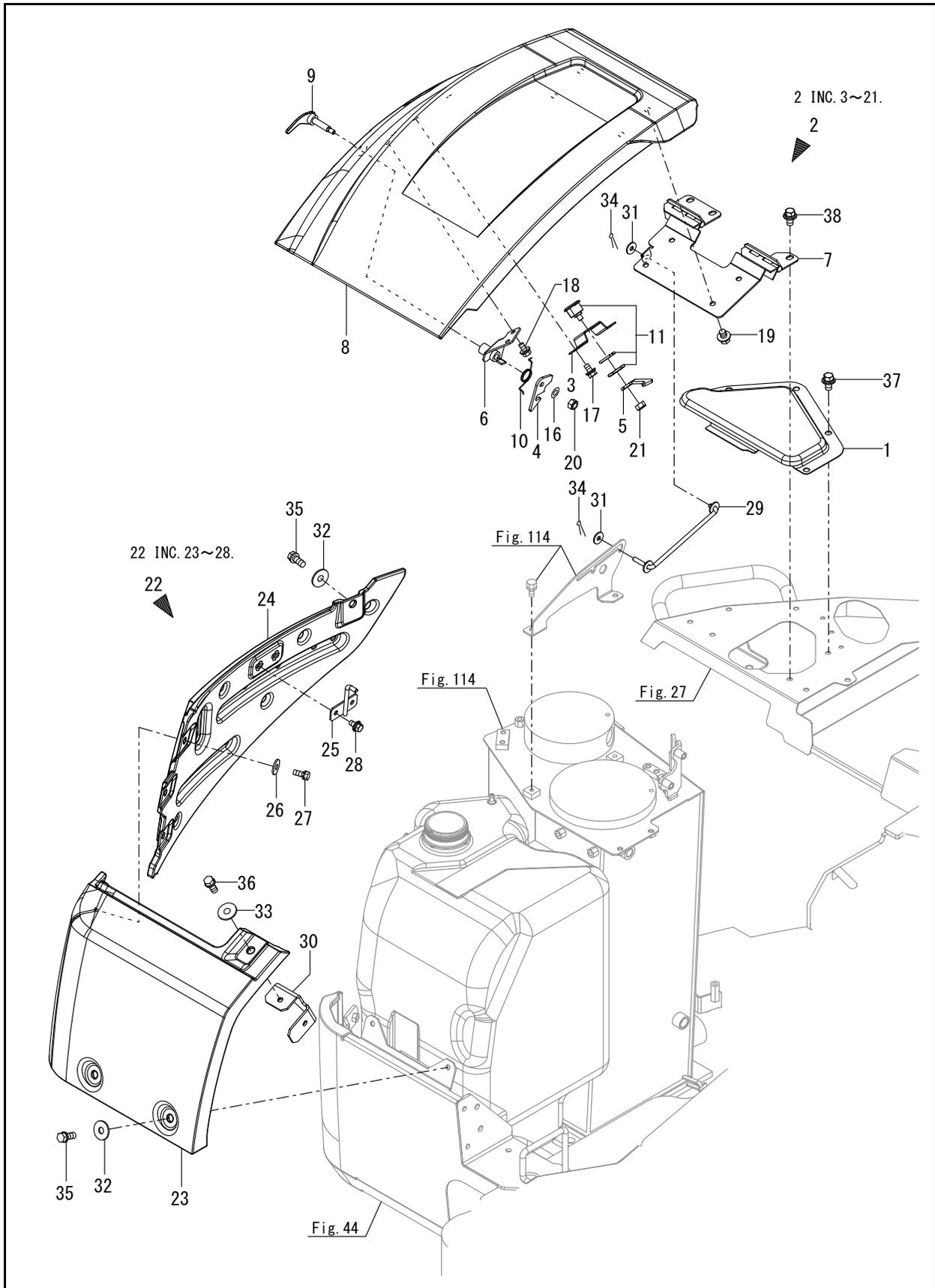
Z80 - COMPACT EXCAVATOR
FIG. 62 - SEAT MOUNT



Z80 - COMPACT EXCAVATOR
FIG. 62 - SEAT MOUNT

Ref.	No.	Part No.	Description	Qty.
	1	50282216	MOUNT ASSY,SEAT (49)	1
	2	50281049	SEAL 125	1
	3	50281134	MOLDING	1
	4	50281322	SEAL,135	1
	5	50281135	SEAL,LEVER STAND	1
	6	50280862	SEAL,COVER A	1
	8	50282217	EV A,SEAT MT	1
	9	50282218	EV B,SEAT MT	1
	10	50281692	EV C,SEAT MT	1
	11	50281693	EV D,SEAT MT	1
	12	50282219	EV E,SEAT MT	1
	13	50281694	GLASSWOOL A,SEAT MT	1
	14	50281695	GLASSWOOL B,SEAT MT	1
	15	50282220	GLASSWOOL C,SEAT MT	1
	16	50286497	TRIM	1
	17	50281696	SEAL,SEAT MT	1
	18	50280951	RUBBER 580	1

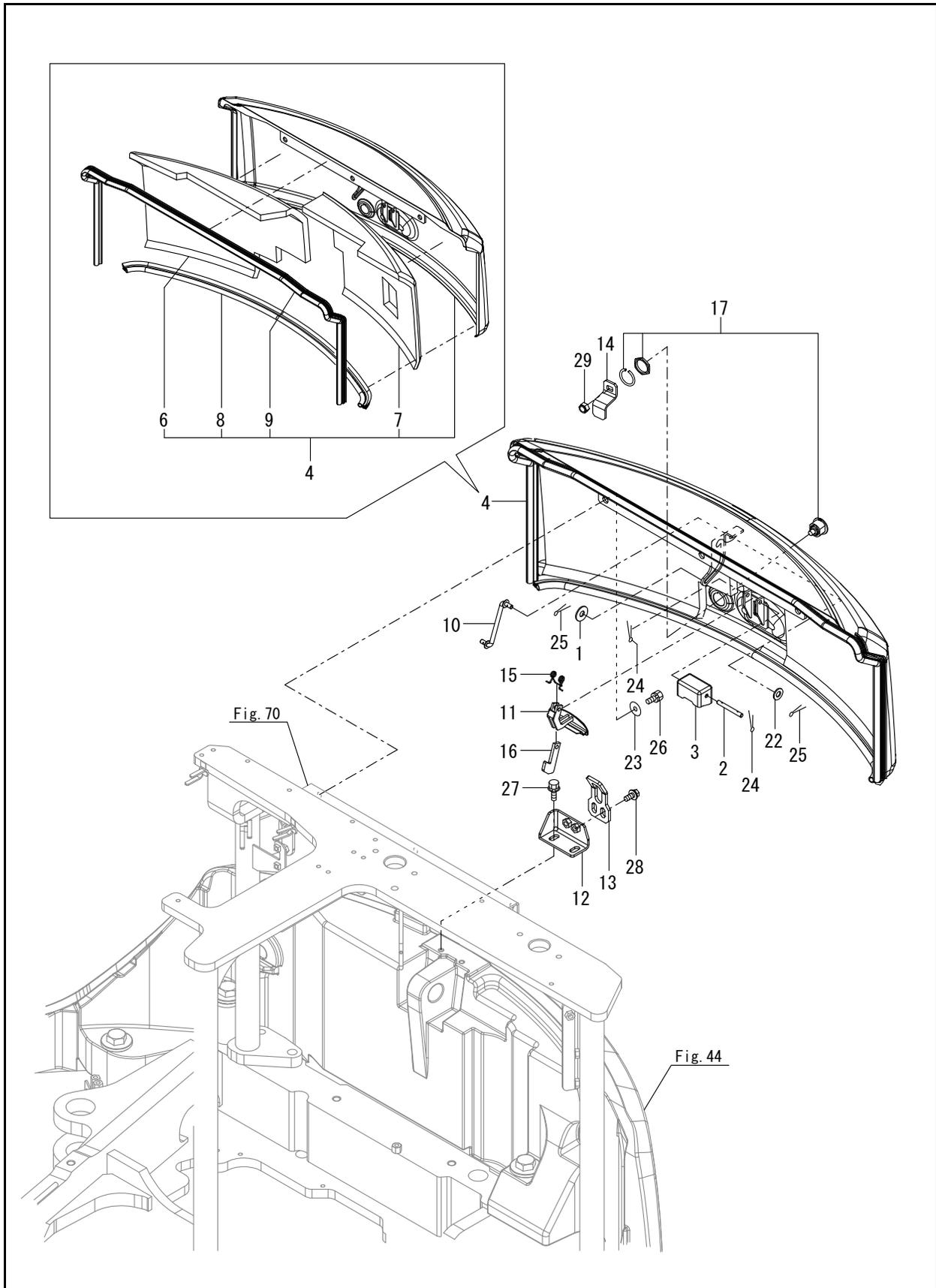
Z80 - COMPACT EXCAVATOR
FIG. 63 - BONNET (UPPER, FRONT)



**Z80 - COMPACT EXCAVATOR
FIG. 63 - BONNET (UPPER, FRONT)**

Ref. No.	Part No.	Description	Qty.
1	50281672	UPPER COVER (use with label 1A)	1
1A	50281027	LABEL, RADIATOR US (see Page 4)	1
2	50281680	BONNET UPPER ASSY,BLK	1
3	50281464	ROCK PLATE	1
4	50281676	PLATE,LOCK	1
5	50281677	STAY,KEY	1
6	50281678	HOOK ASSY	1
7	50281679	PLATE ASSY,HINGE	1
8	50281681	BONNET UPPER, BLACK	1
9	50281686	LEVER ASSY	1
10	50280847	TORSION SPRING	1
11	50280889	KEY ASSY, CYLINDER	1
16	50282380	WASHER 8, POLISHED	1
17	50282533	BOLT M 8X 16	2
18	50282533	BOLT M 8X 16	2
19	50282537	BOLT M10X16	4
20	50282575	U-NUT M 8	1
21	50282576	U-NUT M10	1
22	50281682	BONNET LOWER ASSY,BLK	1
23	50281683	BON B FRONT,BLACK	1
24	50281684	BONNET REAR, BLACK	1
25	50281685	ROD ASSY,CATCH	1
26	186593	WASHER 8	3
27	50282507	BOLT W/WASHER M8X20	3
28	50282533	BOLT M 8X 16	2
29	50281687	ROD ASSY,STOPPER	1
30	50281703	STAY ASSY,BON B	1
31	186593	WASHER 8	2
32	50282387	WASHER 10	4
33	50282387	WASHER 10	1
34	50282418	COTTER PIN 2.0X20	2
35	50282516	BOLT W/WASHER M10X25	4
36	50282516	BOLT W/WASHER M10X25	1
37	50282538	BOLT M10X 20	4
38	50282538	BOLT M10X 20	3

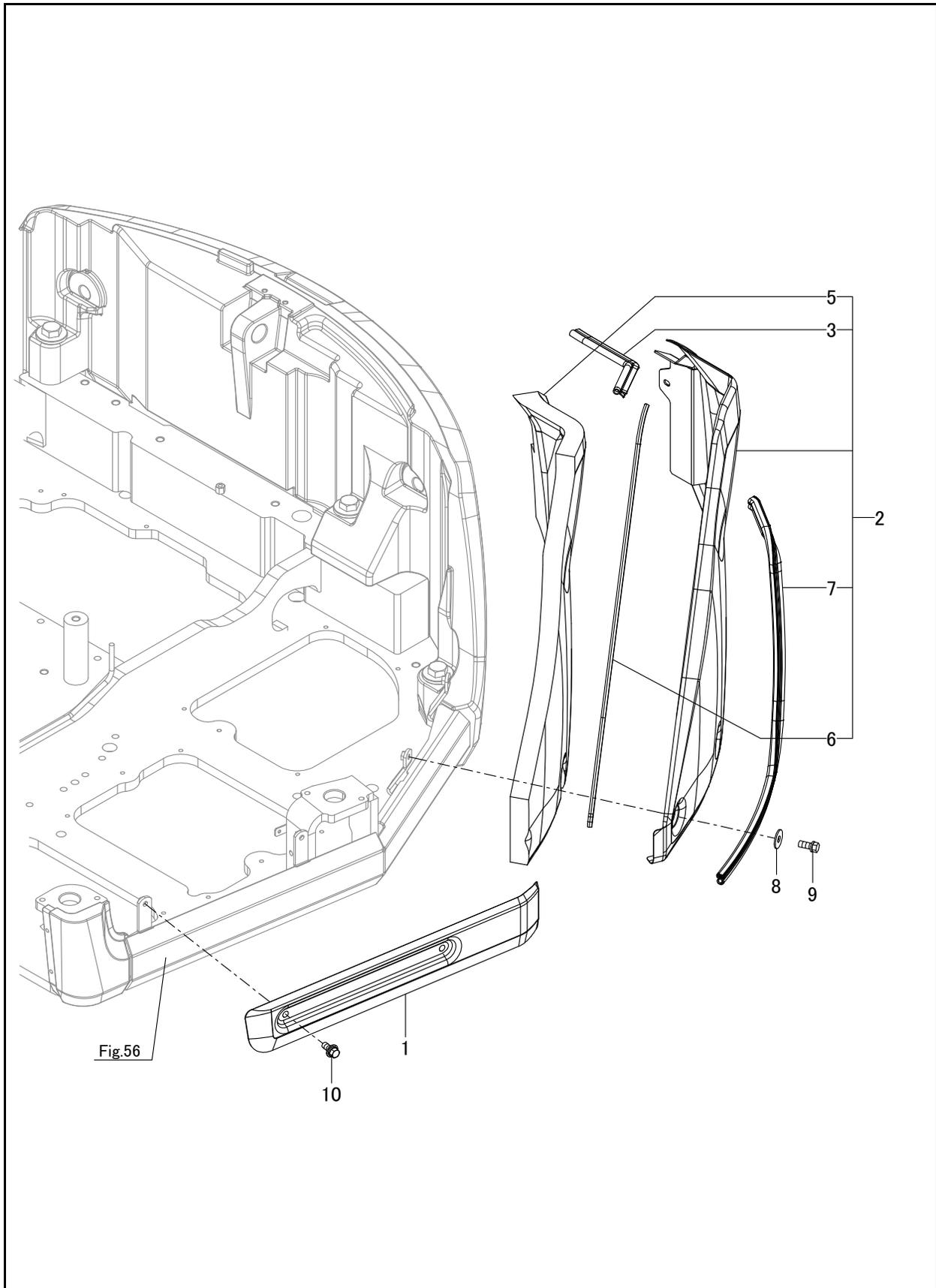
Z80 - COMPACT EXCAVATOR
FIG. 64 - BONNET (REAR)



Z80 - COMPACT EXCAVATOR
FIG. 64 - BONNET (REAR)

Ref. No.	Part No.	Description	Qty.
1	50282361	WASHER	1
2	50281141	SHAFT	1
3	50281142	COVER,BONNET LOCK	1
4	50286389	REAR COVER ASSY (use with labels 9A, 9B, 9C, 9D)	1
6	50282222	EV R,BONNET A	1
7	50282223	EV L,BONNET A	1
8	50281701	RUBBER, SEAL 1070	1
9	50281702	RUBBER, SEAL 1760	1
9A	50281026	LABEL,SWING AREA US (see Page 4)	1
9B	50281028	LABEL, ENG,COVER US (see Page 4)	1
9C	50281425	LABEL, ENG ROOM (see Page 4)	1
9D	50281029	LABEL, MUFFLER US (see Page 4)	1
10	50281051	ROD,STOPPER	1
11	50280949	LEVER ASSY, LOCK	1
12	50282225	BRACKET ASSY,LOCK	1
13	50280950	PLATE, CATCH	1
14	50281143	PLATE,ROCK	1
15	50281351	SPRING, CATCH	1
16	50280794	CATCHER	1
17	50280889	KEY ASSY, CYLINDER	1
22	50282380	WASHER 8, POLISHED	1
23	50282387	WASHER 10	3
24	50282418	COTTER PIN 2.0X20	2
25	50282418	COTTER PIN 2.0X20	2
26	50282516	BOLT W/WASHER M10X25	3
27	50282539	BOLT 10X25 W/PLW+SPW	2
28	50282539	BOLT 10X25 W/PLW+SPW	2
29	50282576	U-NUT M10	1

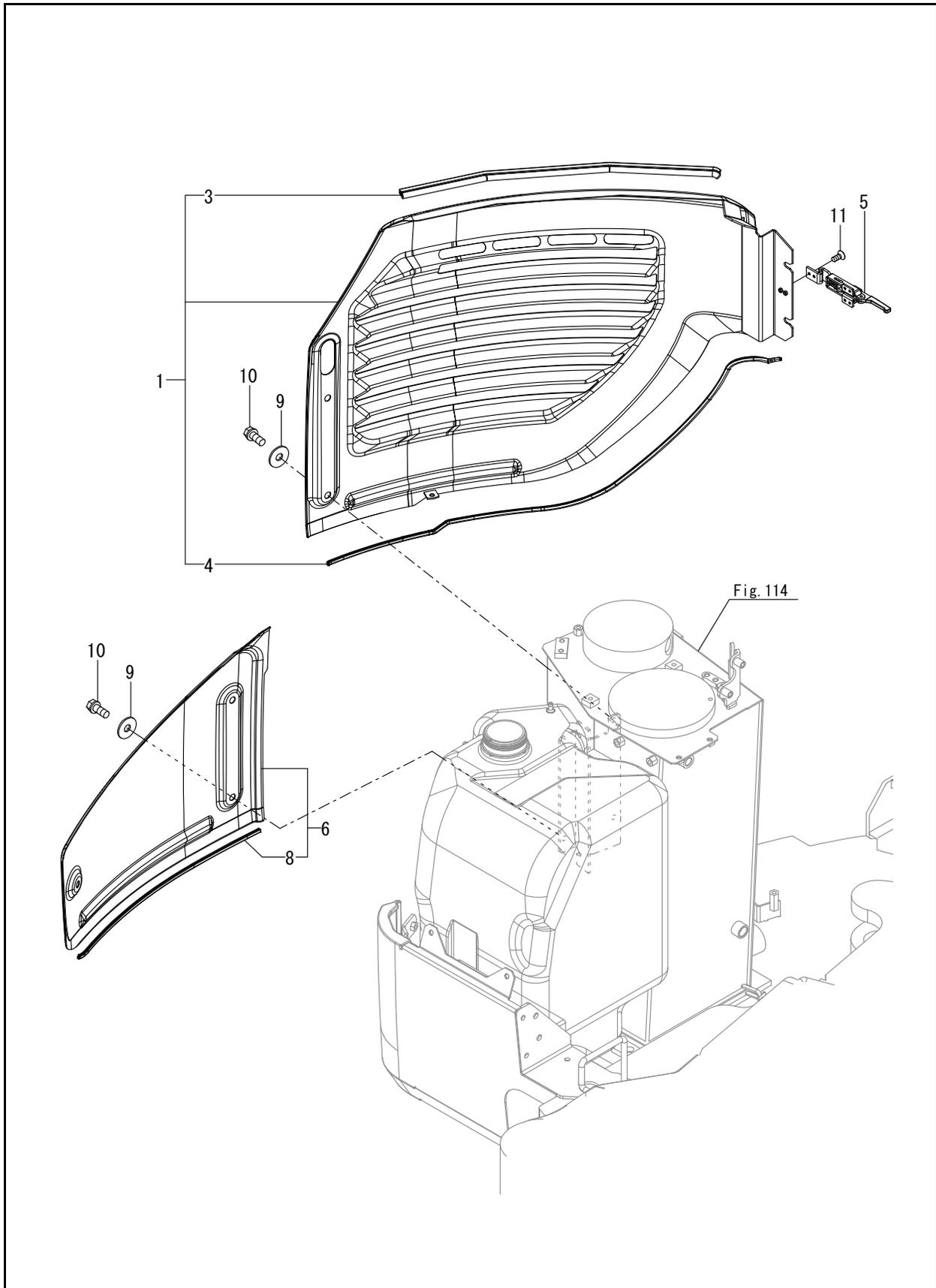
Z80 - COMPACT EXCAVATOR
FIG. 66 - BONNET (SIDE : LEFT)



Z80 - COMPACT EXCAVATOR
FIG. 66 - BONNET (SIDE : LEFT)

Ref.			
No.	Part No.	Description	Qty.
1	50286325	FRAME COVER LT	1
2	50286391	COVER ASSY LT	1
3	50280855	SEAL	1
5	50282227	EV,BONNET L	1
6	50281704	TRIM,1260	1
7	50280904	RUBBER,SEAL D	1
8	50282387	WASHER 10	3
9	50282516	BOLT W/WASHER M10X25	3
10	50282539	BOLT 10X25 W/PLW+SPW	2

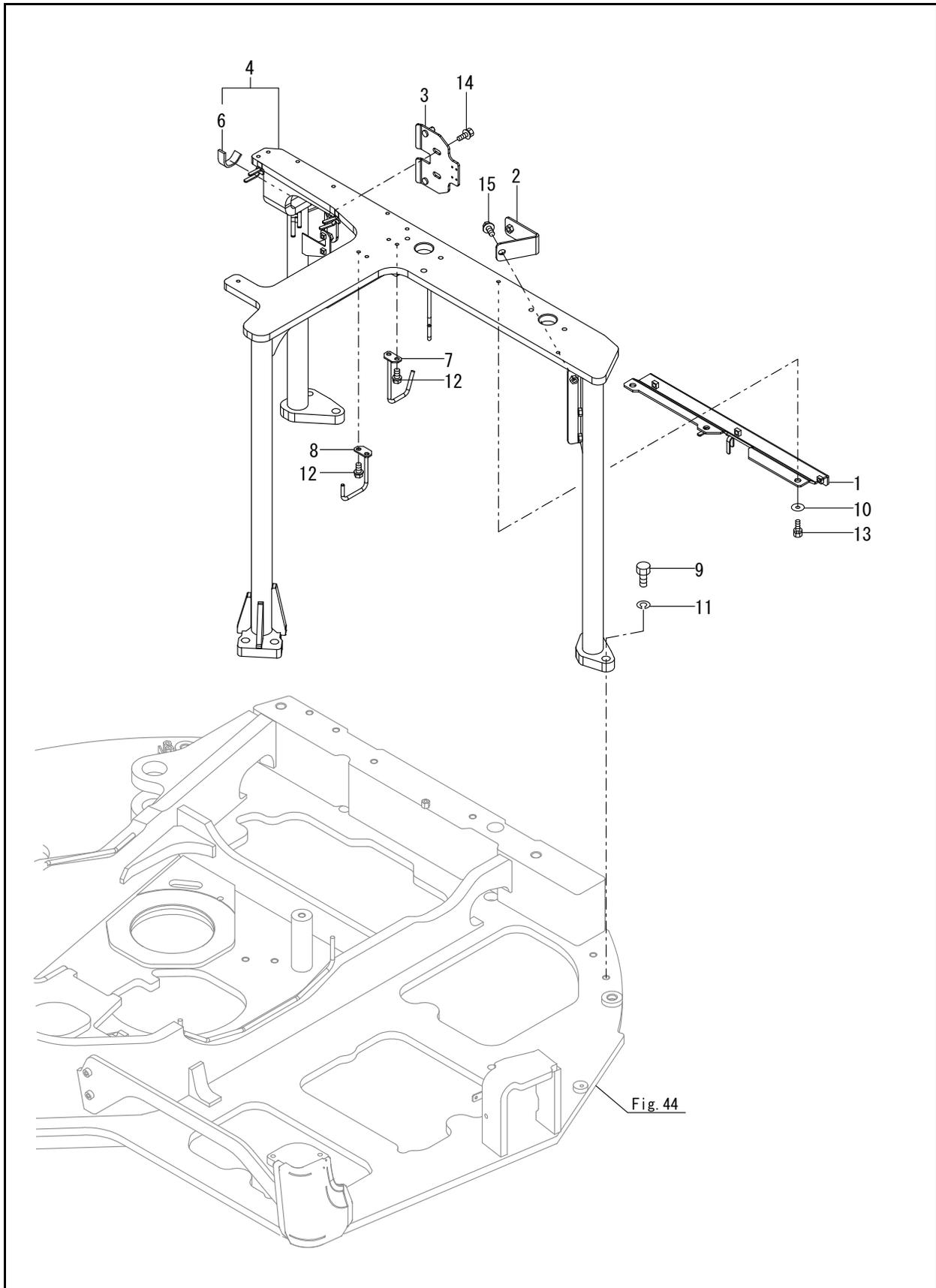
Z80 - COMPACT EXCAVATOR
FIG. 68 - BONNET (SIDE : RIGHT)



Z80 - COMPACT EXCAVATOR
FIG. 68 - BONNET (SIDE : RIGHT)

Ref.			
No.	Part No.	Description	Qty.
1	50286393	COVER ASSY RT	1
3	50282230	RUBBER,SEAL 670	1
4	50282231	TRIM,1160	1
5	50281707	HANDLE, BONNET LOCK	1
6	50286329	COVER ASSY	1
8	50281709	TRIM,600	1
9	50282387	WASHER 10	5
10	50282516	BOLT W/WASHER M10X25	5
11	50282591	SCREW M 5X 12	6

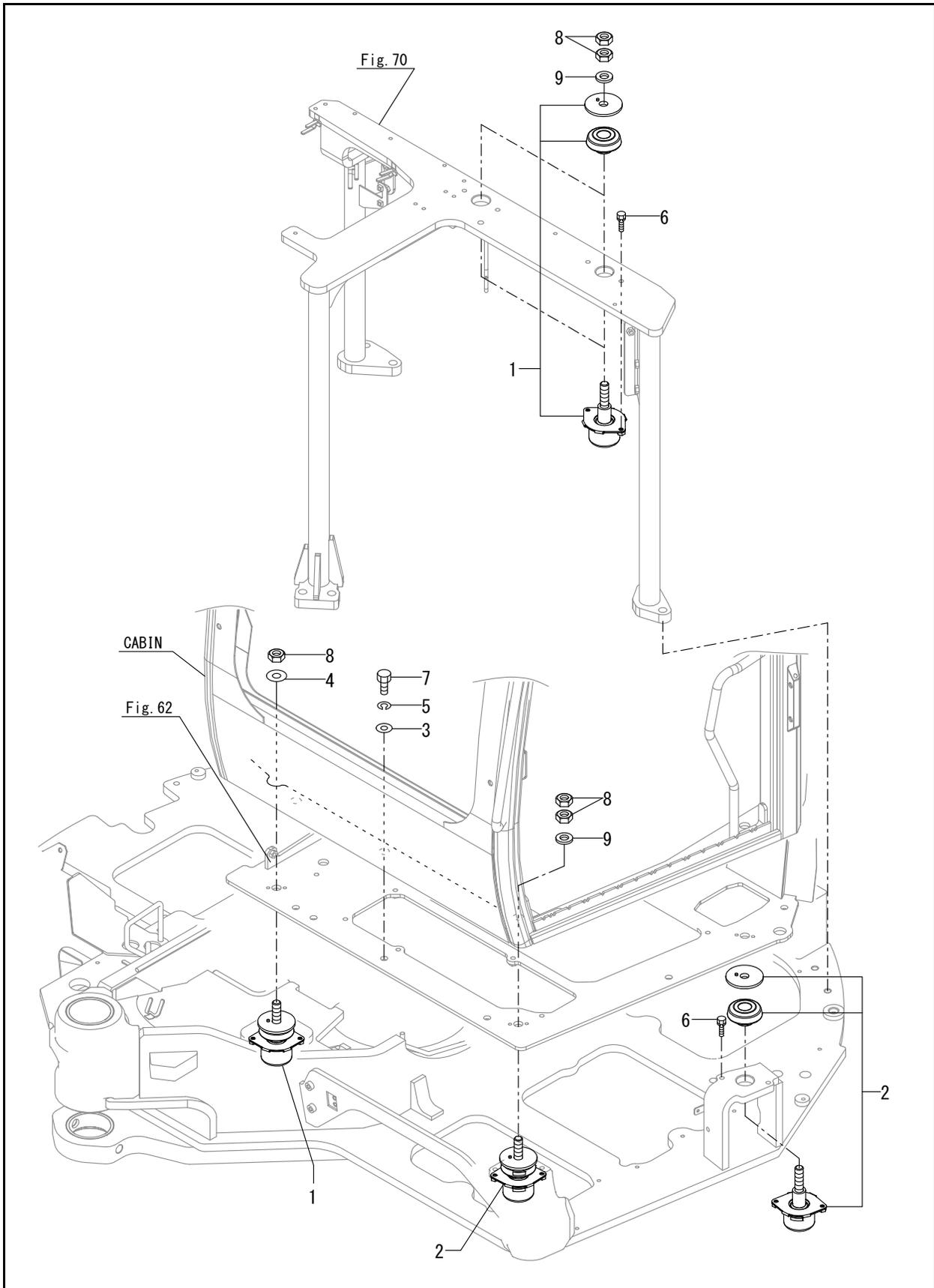
Z80 - COMPACT EXCAVATOR
FIG. 70 - CABIN MOUNT (BRACKET)



**Z80 - COMPACT EXCAVATOR
FIG. 70 - CABIN MOUNT (BRACKET)**

Ref.			
No.	Part No.	Description	Qty.
1	50282224	BK ASSY,BONNET A	1
2	50282228	STAY ASSY,BONNET L	1
3	50282232	BRACKET ASSY,BR	1
4	50282233	BRACKET ASSY,CAB M	1
6	50282236	SOUND SHIELD,105	1
7	50282234	GUIDE ASSY,C HOSE	1
8	50282235	GUIDE ASSY,E HOSE	1
9	50281146	BOLT	6
10	50282387	WASHER 10	3
11	50282396	SPRING WASHER 16	6
12	50282515	BOLT W/WASHER M10X20	4
13	50282516	BOLT W/WASHER M10X25	3
14	50282539	BOLT 10X25 W/PLW+SPW	2
15	50282539	BOLT 10X25 W/PLW+SPW	1

Z80 - COMPACT EXCAVATOR
FIG. 71 - CABIN MOUNT (ANTIVIBRATION MOUNT)

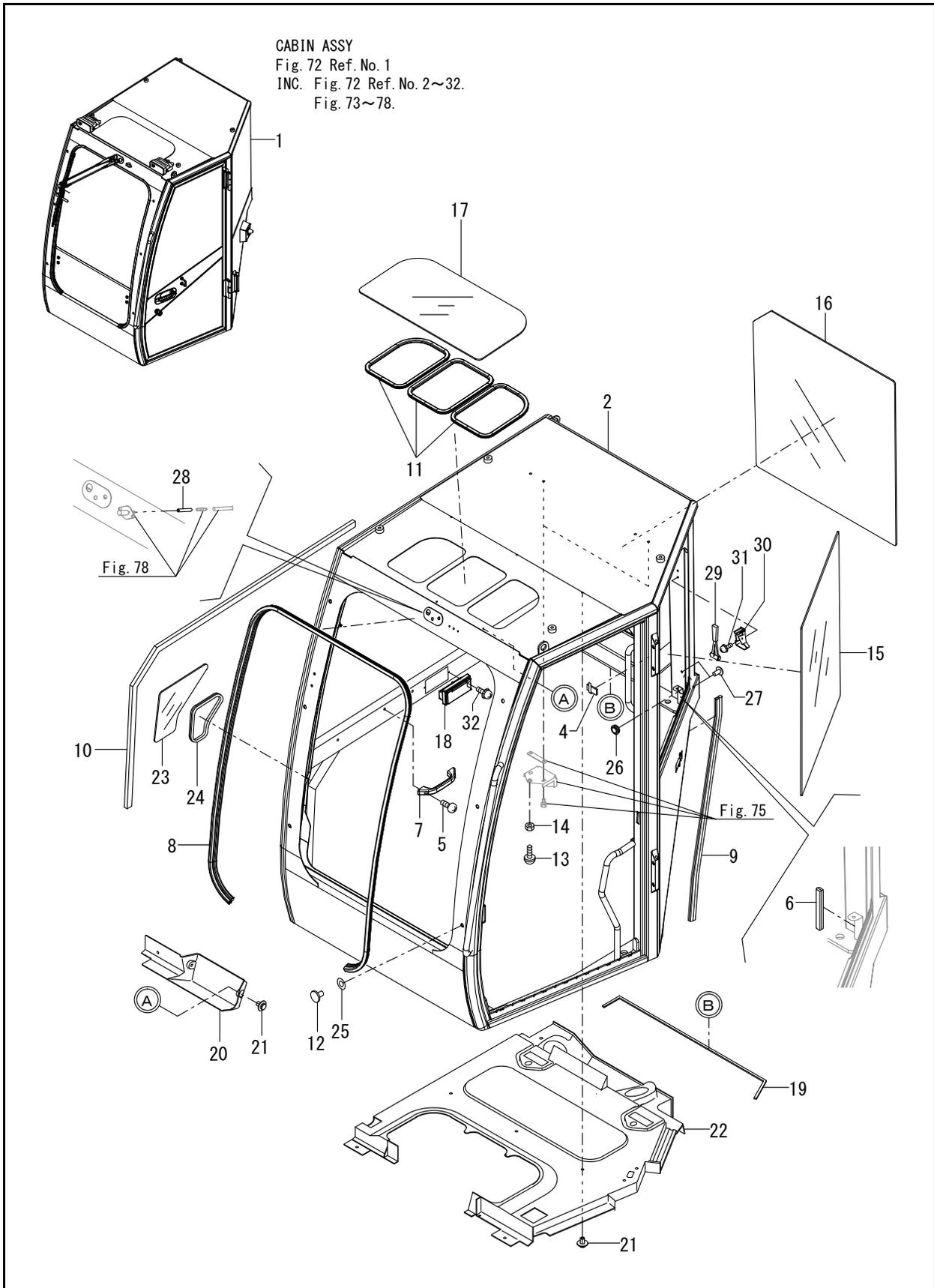


Z80 - COMPACT EXCAVATOR
FIG. 71 - CABIN MOUNT (ANTIVIBRATION MOUNT)

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

Z80 - COMPACT EXCAVATOR

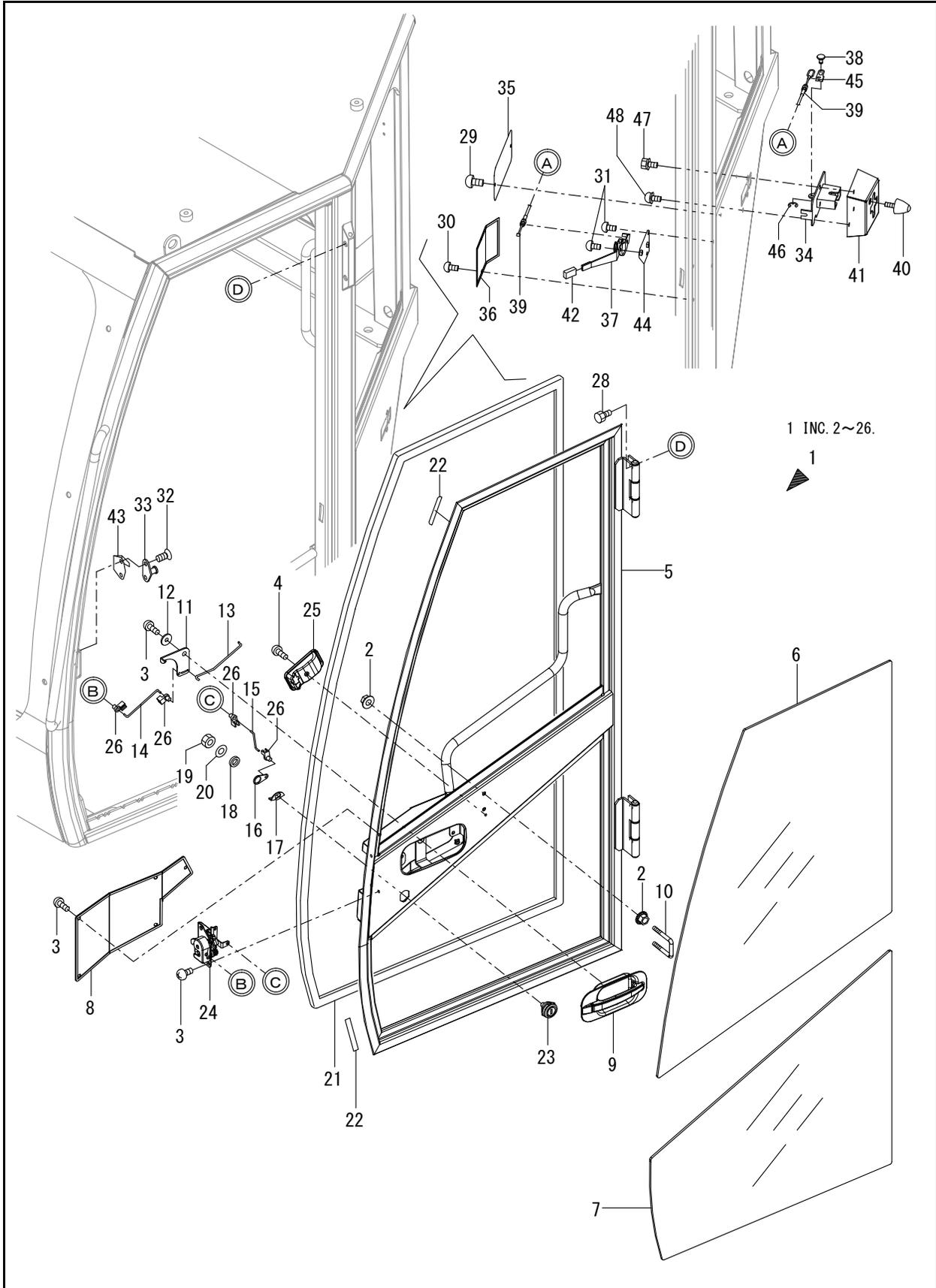
FIG. 72 - CABIN (BODY)



Z80 - COMPACT EXCAVATOR
FIG. 72 - CABIN (BODY)

Ref. No.	Part No.	Description	Qty.
1	50281710	CAB ASSY	1
2	50281711	FRAME,CAB CMP (use with labels 33A, 33B)	1
4	50281327	CLIP	8
5	50281334	SCREW,M6X16 BK	2
6	50281757	TRIM	1
7	50281340	GRIP	1
8	50281827	RUBBER,TRIM	1
9	50281828	RUBBUR,P	1
10	50281829	SEAL PACKIN	1
11	50281830	RUBBER,TRIM	1
12	50281831	CLIP	10
13	50281832	STOPPER RUBBER	2
14	50281833	NUT,M8 BK	2
15	50281834	GLASS,DOOR REAR	1
16	50281835	GLASS,REAR (use with label 34A)	1
17	50281836	POLYCARBONATE	1
18	50281837	ASHTRAY	1
19	50281838	SEAL	1
20	50281839	INTERIOR,WIPER MOTOR	1
21	50281840	FASTENER	11
22	50281842	INTERIOR,ROOF	1
23	50281843	GLASS	1
24	50281844	TRIM	1
25	50281845	RUBBER,PACKIN	10
26	50281846	GROMMET	1
27	50281847	BOLT,CAP	2
28	50281848	HOSE,WASHER	1
29	50281849	HAMMER	1
30	50281850	BRACKET,HAMMER	1
31	50282544	SCREW, M5 X 16	2
32	50282544	SCREW, M5 X 16	2
33A	50281019	LABEL, MANUAL US (see Page 4)	1
33B	50281033	LABEL, LEVER LOCK US (see Page 4)	1
34A	50282089	LABEL,LIFT Q (see Page 4)	1

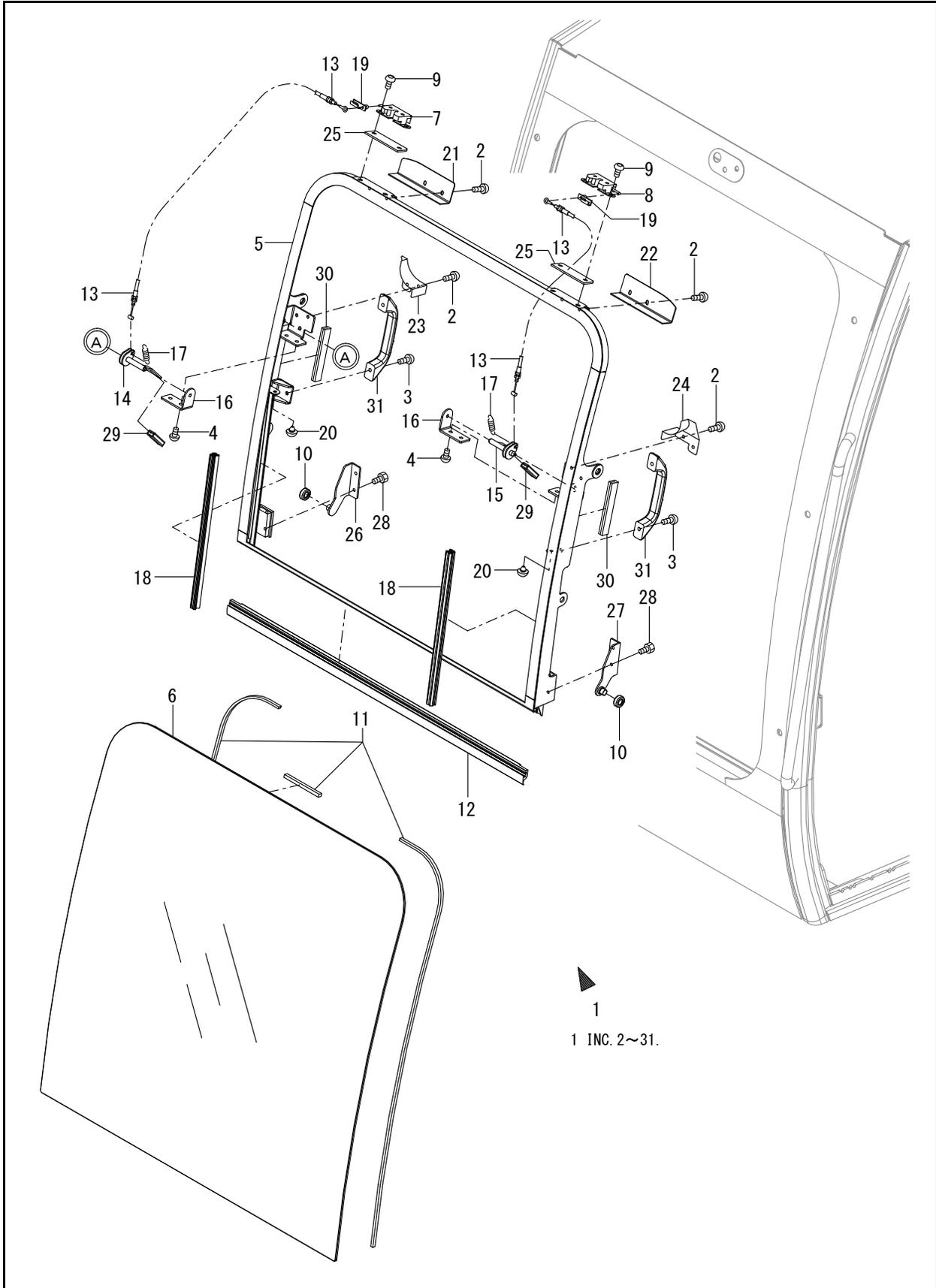
Z80 - COMPACT EXCAVATOR
FIG. 73 - CABIN (DOOR)



Z80 - COMPACT EXCAVATOR
FIG. 73 - CABIN (DOOR)

Ref.	No.	Part No.	Description	Qty.
	1	50281712	DOOR ASSY	1
	2	50281333	NUT,FLANGE M10 BK	4
	3	50281334	SCREW,M6X16 BK	11
	4	50281335	SCREW,M5X12 BK	1
	5	50281713	FRAME, DOOR	1
	6	50281714	GLASS,DOOR TOP	1
	7	50281715	GLASS,DOOR BOTTOM	1
	8	50281716	COVER	1
	9	50281717	STEERING,ASSY	1
	10	50281718	BOLT,U	1
	11	50281719	PLATE	1
	12	50281720	WASHER	1
	13	50281721	LINK,A	1
	14	50281722	LINK,B	1
	15	50281723	LINK,C	1
	16	50281724	PLATE	1
	17	50281725	PLATE	1
	18	50281726	SPACER	1
	19	50281727	NUT,M10 BK	1
	20	50281728	WASHER,PLATE	1
	21	50281729	RUBBER	1
	22	50281730	RUBBER	2
	23	50281337	KEY CYLINDER ASSY	1
	24	50281338	LOCK ASSY LH	1
	25	50281339	INNER HANDLE	1
	26	50281341	HOLDER,LINK	4
	28	50281329	BOLT,M10X25	4
	29	50281332	SCREW,M6X16 BK	2
	30	50281332	SCREW,M6X16 BK	4
	31	50281332	SCREW,M6X16 BK	2
	32	50281792	SCREW,M8	2
	33	50281806	STRIKER	1
	34	50281807	CATCH ASSY	1
	35	50281808	COVER,R	1
	36	50281809	COVER,F	1
	37	50281810	LEVER,ASSY	1
	38	50281811	PIN	1
	39	50281812	WIRE	1
	40	50281813	STOPPER RUBBER	1
	41	50281814	COVER	1
	42	50281815	COVER,LEVER	1
	43	50281816	COVER	1
	44	50281817	BRACKET	1
	45	50281818	PLATE	1
	46	50282410	CIRCLIP E- 4	1
	47	50282534	BOLT M 8X 20	2
	48	50282546	SCREW M 6X 16	1

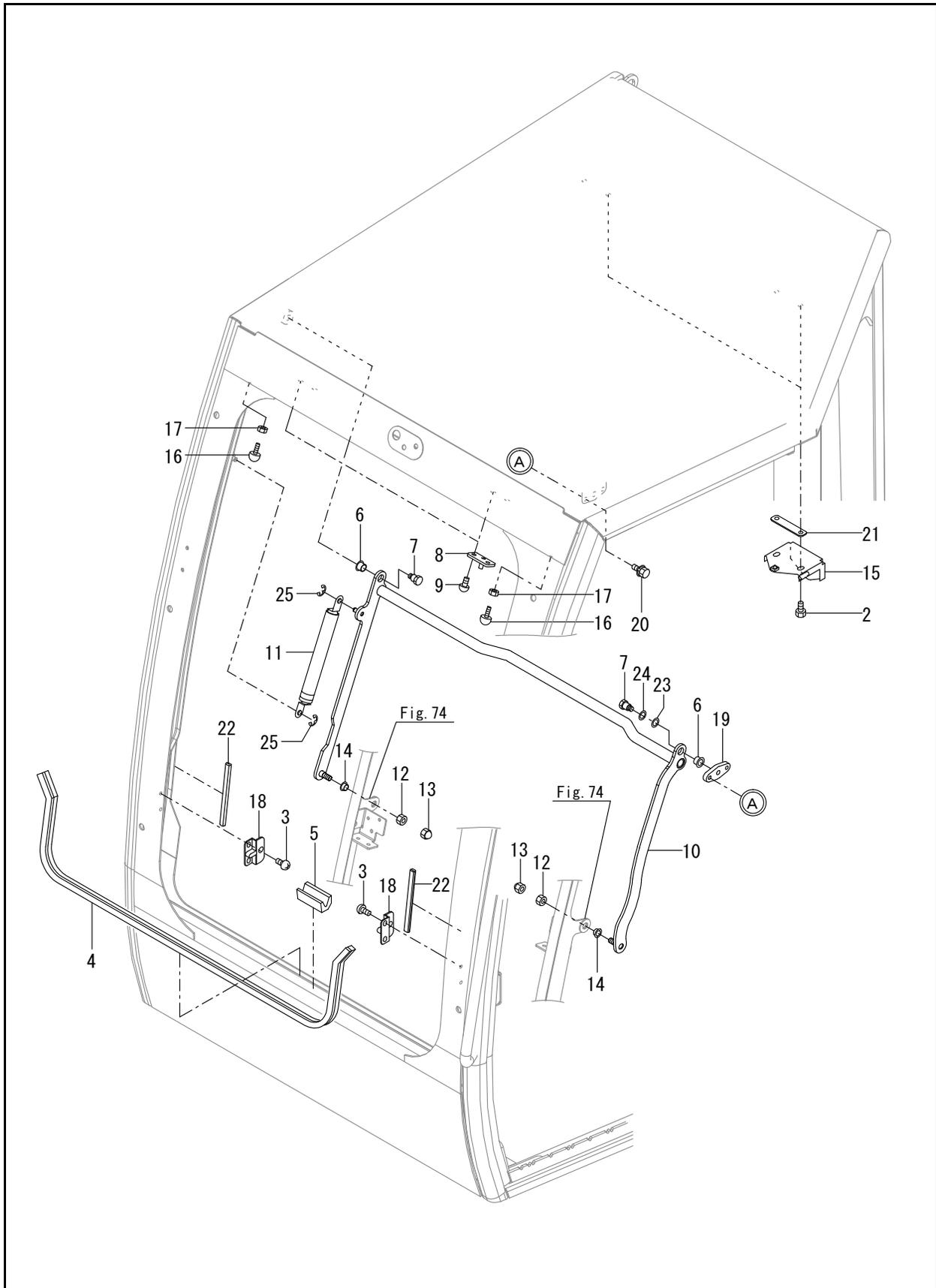
Z80 - COMPACT EXCAVATOR
FIG. 74 - CABIN (FRONT WINDOW : 1)



**Z80 - COMPACT EXCAVATOR
FIG. 74 - CABIN (FRONT WINDOW : 1)**

Ref. No.	Part No.	Description	Qty.
1	50281731	FRONT,WINDOW ASSY	1
2	50281331	SCREW,M5X14 BK	8
3	50281334	SCREW,M6X16 BK	4
4	50281334	SCREW,M6X16 BK	4
5	50281732	SLIDE FRONT,FRAME	1
6	50281733	GLASS,FRONT TOP (use with label 32A)	1
7	50281734	SNATCH LOCK,R	1
8	50281735	SNATCH LOCK,L	1
9	50281736	HEXAGON HOLE BLT M8	4
10	50281737	ROLLER	2
11	50281738	RUBBER TRIM	1
12	50281739	RUBBER SEAL	1
13	50281740	WIRE	2
14	50281741	LEVER,R	1
15	50281742	LEVER,L	1
16	50281743	BRACKET LEVER	2
17	50281744	COIL SPRING	2
18	50281745	CHANNEL	2
19	50281746	HOLDER LINK	2
20	50281747	STOPPER,RUBBER	2
21	50281748	COVER,LATCH R	1
22	50281749	COVER,LATCH L	1
23	50281750	COVER,R	1
24	50281751	COVER,L	1
25	50281752	PLATE,LATCH	2
26	50281753	BRACKET,ROLLER R	1
27	50281754	BRACKET,ROLLER L	1
28	50281755	BOLT,M8X18 BK	4
29	50281756	COVER,LEVER	2
30	50281757	TRIM	2
31	50281340	GRIP	2
32A	50281036	LABEL, WINDOW US (see Page 4)	1

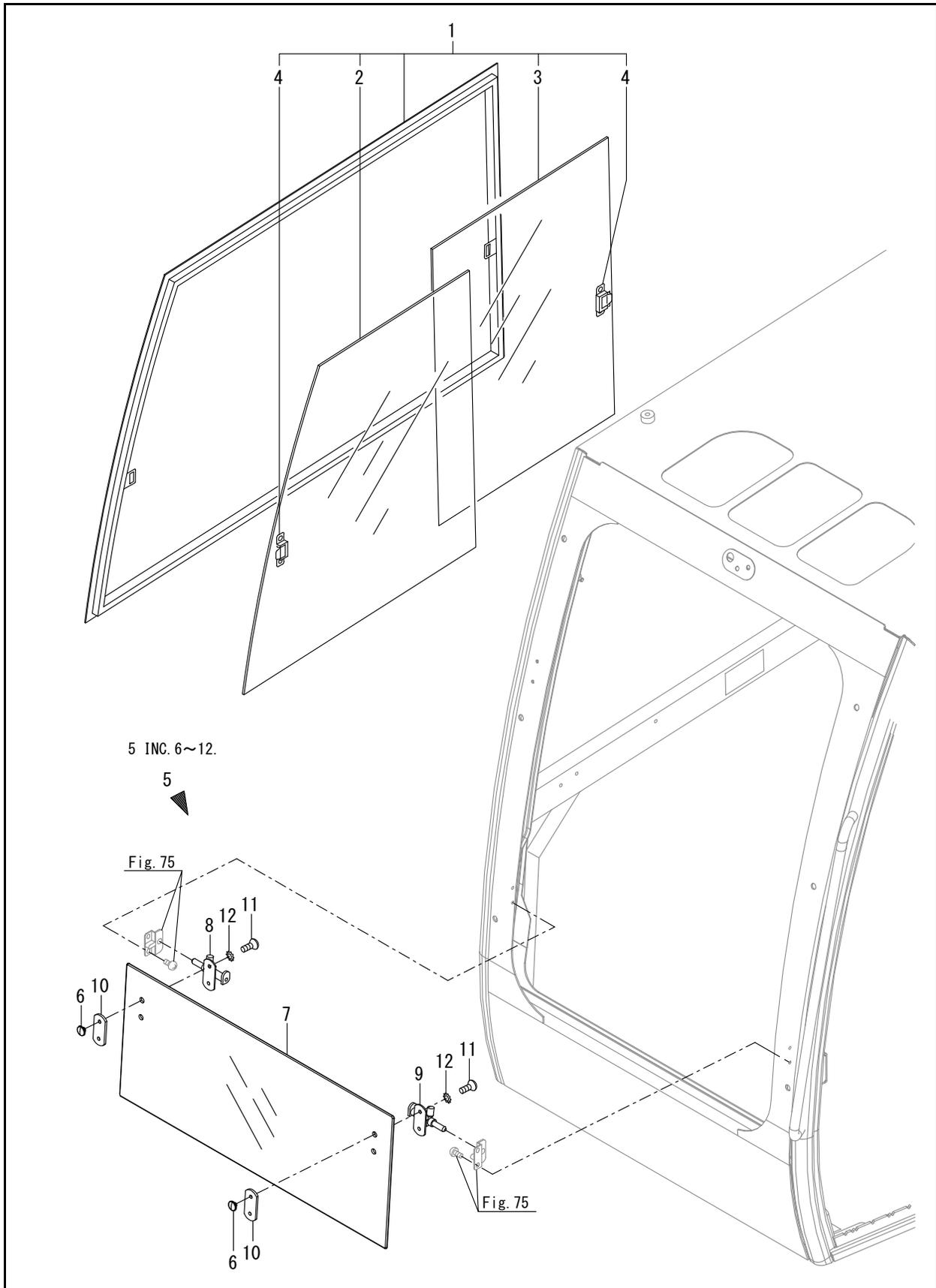
Z80 - COMPACT EXCAVATOR
FIG. 75 - CABIN (FRONT WINDOW : 2)



Z80 - COMPACT EXCAVATOR
FIG. 75 - CABIN (FRONT WINDOW : 2)

Ref.	No.	Part No.	Description	Qty.
	2	50281323	BOLT, M8 X 20 BK	4
	3	50281334	SCREW,M6X16 BK	4
	4	50281787	RUBBER,TRIM	1
	5	50281788	RUBBER,STOP	2
	6	50281789	BEARING	2
	7	50281790	BOLT,LINK	2
	8	50281791	STRIKER,FRONT	2
	9	50281792	SCREW,M8	4
	10	50281793	LINK ASSY	1
	11	50281794	GAS SPRING	1
	12	50281795	NUT,M10 BK	2
	13	50281796	BAG NUT,M10 BK	2
	14	50281797	BEARING	2
	15	50281798	STRIKER,REAR	2
	16	50281799	STOPPER,RUBBER	2
	17	50281800	NUT,M5 BK	2
	18	50281801	PLATE,LATCH	2
	19	50281802	SEAT,SCREW	1
	20	50281803	BOLT,M8X16 BK	2
	21	50281804	SPACER	2
	22	50281805	TRIM	2
	23	50286499	WASHER	1
	24	50286500	WASHER	1
	25	176152	CIRCLIP E-7	2

Z80 - COMPACT EXCAVATOR
FIG. 76 - CABIN (WINDOW SASH & LOWER GLASS)

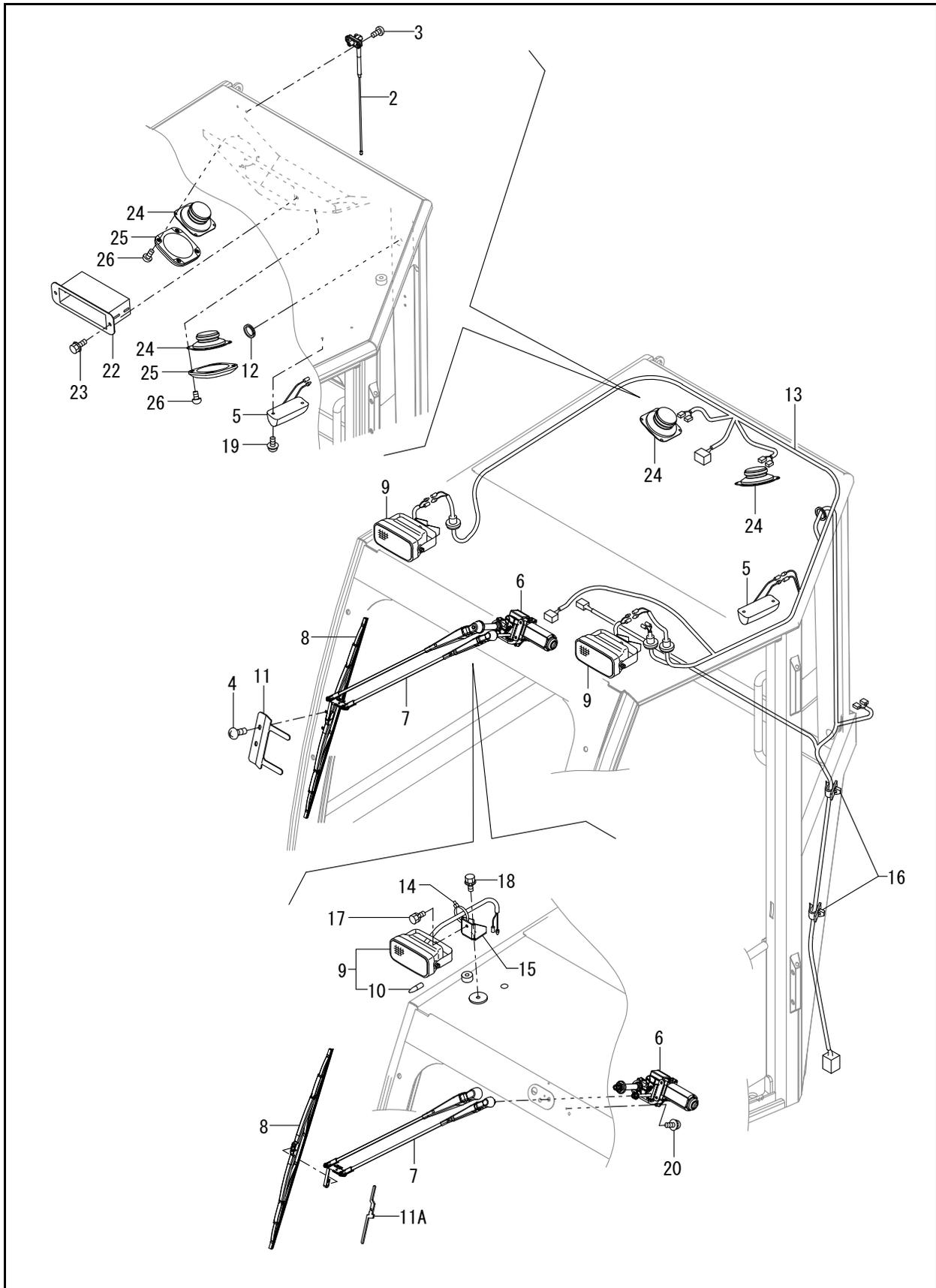


Z80 - COMPACT EXCAVATOR
FIG. 76 - CABIN (WINDOW SASH & LOWER GLASS)

Ref. No.	Part No.	Description	Qty.
1	50281758	SASH ASSY	1
2	50281759	GLASS FRONT	1
3	50281760	GLASS REAR (use with labels 13A, 13B, 13C, 13D, 13E, 13F, 13H, 13I)	1
4	50281761	LOCK,ASSY	2
5	50281762	LOWER GLASS,ASSY	1
6	50281328	RETAINER	4
7	50281763	GLASS,FRONT LOWER	1
8	50281764	LATCH,R ASSY LOWER	1
9	50281765	LATCH,L ASSY LOWER	1
10	50281766	PACKING	2
11	50281767	SCREW, M5 X 14 BK	4
12	50281768	WASHER, LOCK	4
13A	50281174	LABEL, PIN US (see Page 4)	1
13B	50281177	LABEL, SAND US (see Page 4)	1
13C	50281178	LABEL, WARNING HITCH (see Page 4)	1
13D	50281020	LABEL,SLOPE US (see Page 4)	1
13E	50281022	LABEL, TRANSPORT US (see Page 4)	1
13F	50281025	LABEL, NEUTRAL US (see Page 4)	1
13G	50281030	LABEL, STEERING US (see Page 4)	1
13H	50281031	LABEL, ROPS US (see Page 4)	1
13I	50281032	LABEL, SEAT BELT US (see Page 4)	1

Z80 - COMPACT EXCAVATOR

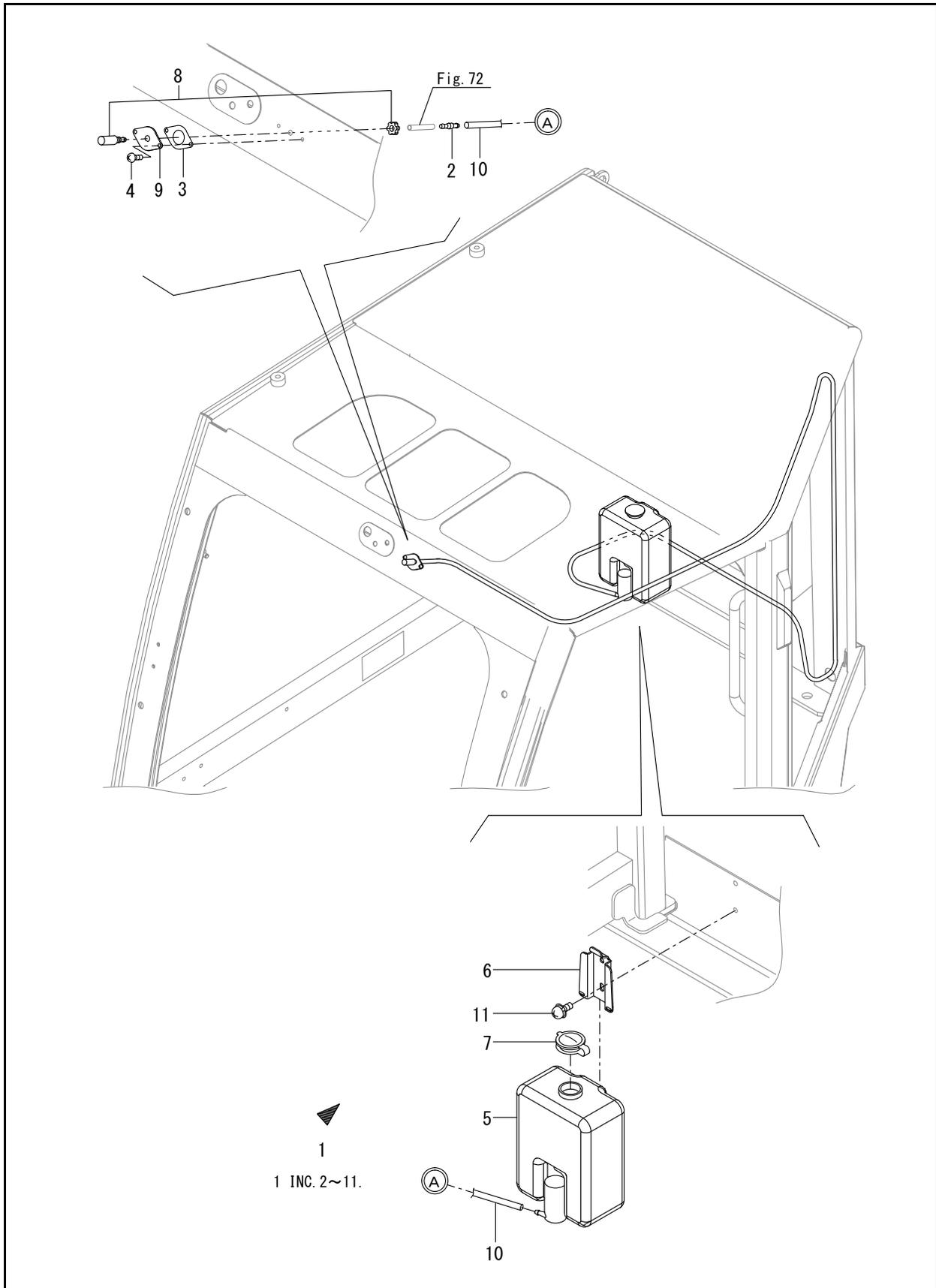
FIG. 77 - CABIN (ELECTRIC)



Z80 - COMPACT EXCAVATOR
FIG. 77 - CABIN (ELECTRIC)

Ref.	No.	Part No.	Description	Qty.
	2	50281326	ANTENNA ROD ASSY	1
	3	50281332	SCREW,M6X16 BK	2
	4	50281334	SCREW,M6X16 BK	2
	5	50281336	ROOM LAMP	1
	6	50281769	WIPER MOTOR	1
	7	50281770	WIPER ARM,550	1
	8	50281771	WIPER BLADE ,500	1
	9	50281772	WORKING LAMP	2
	10	50281132	BULB,12V 55W	4
	11	50281773	BRACKET,WIPER	1
	12	50281774	GROMMET	1
	13	50282237	MAIN HARNESS	1
	14	50281776	TIE	2
	15	50281777	BRACKET	2
	16	50281778	CLIP	2
	17	50281821	BOLT,M8X18 BK	2
	18	50282538	BOLT M10X 20	2
	19	50282544	SCREW, M5 X 16	2
	20	50282546	SCREW M 6X 16	3
	22	50281820	RADIO,BRACKET	1
	23	50281821	BOLT,M8X18 BK	2
	24	50281823	SPEAKER,SET	2
	25	50281825	GRILL,SPEAKER	2
	26	50281826	SCREW,M4X16 BK	8

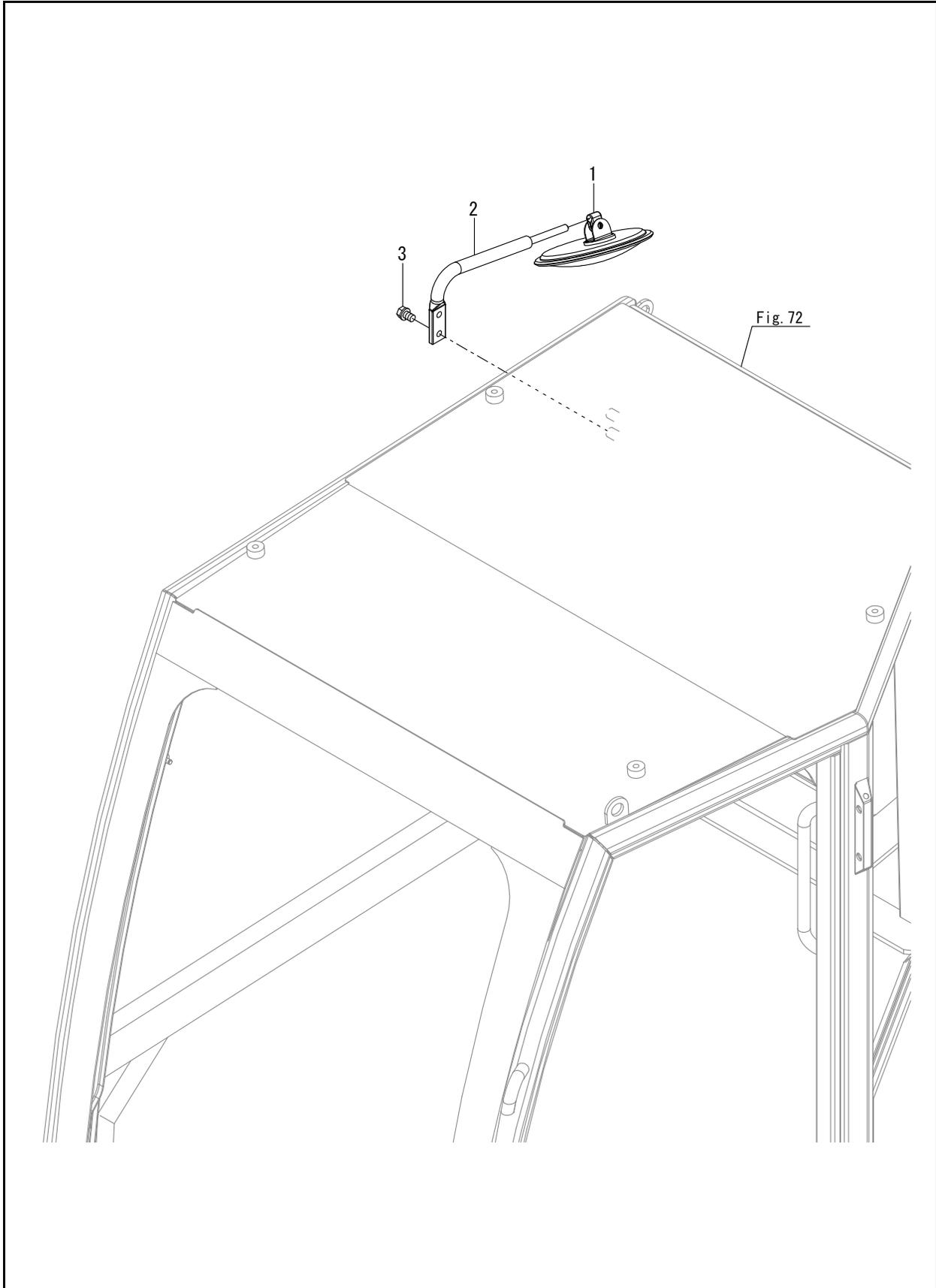
Z80 - COMPACT EXCAVATOR
FIG. 78 - CABIN (WASHER TANK)



**Z80 - COMPACT EXCAVATOR
FIG. 78 - CABIN (WASHER TANK)**

Ref.			
No.	Part No.	Description	Qty.
1	50281780	WASHER TANK,ASSY	1
2	50281324	CHECK VALVE	1
3	50281325	PACKING	1
4	50281330	SCREW,M4X16 BK	2
5	50281781	WASHER TANK	1
6	50281782	BRACKET,WIND WASHER	1
7	50281783	CAP,PACKING	1
8	50281784	WASHER,NOZZLE	1
9	50281786	PLATE	1
10	50286498	HOSE	1
11	50282546	SCREW M 6X 16	2

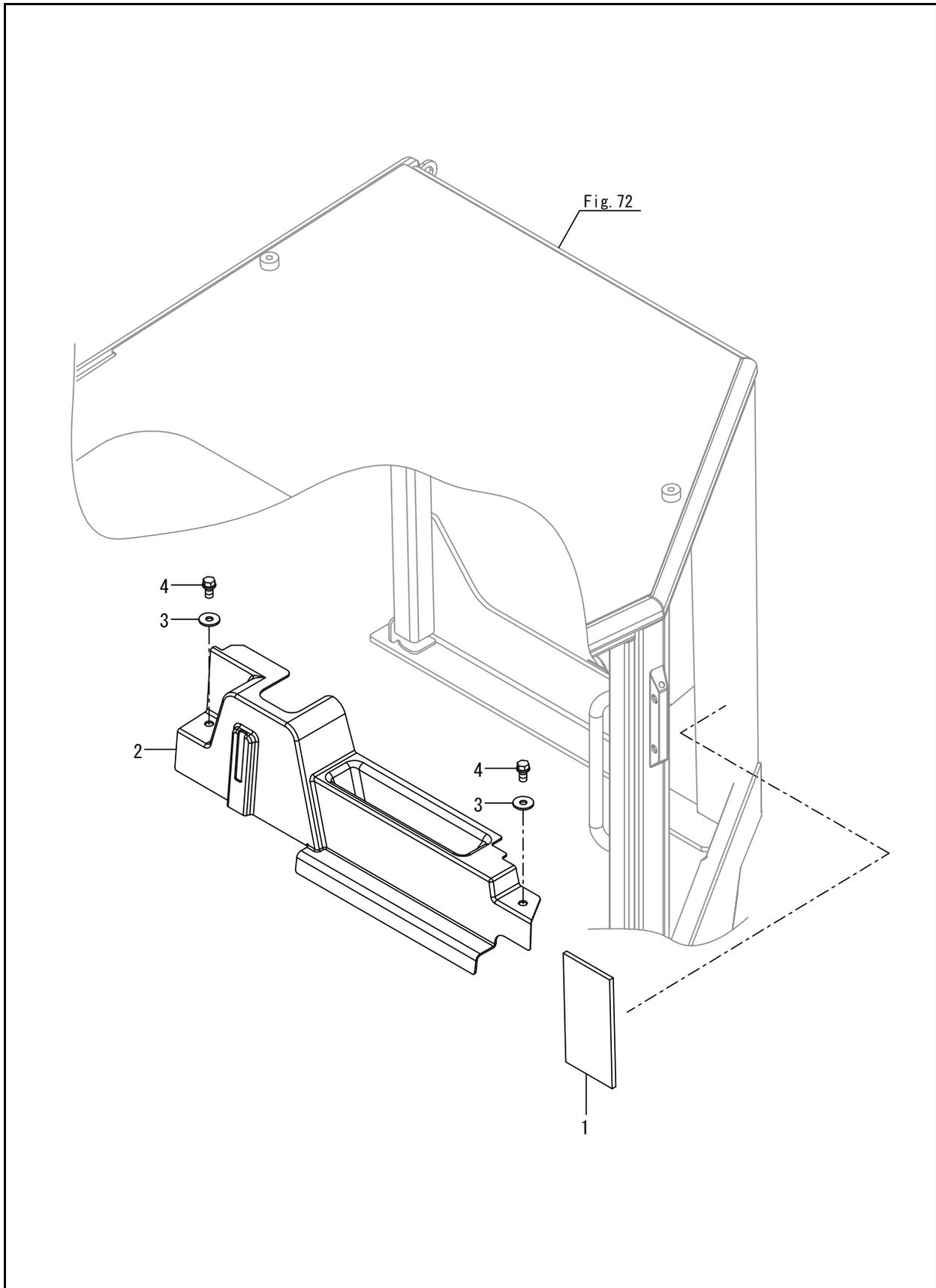
Z80 - COMPACT EXCAVATOR
FIG. 79 - REAR VIEW MIRROR



**Z80 - COMPACT EXCAVATOR
FIG. 79 - REAR VIEW MIRROR**

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

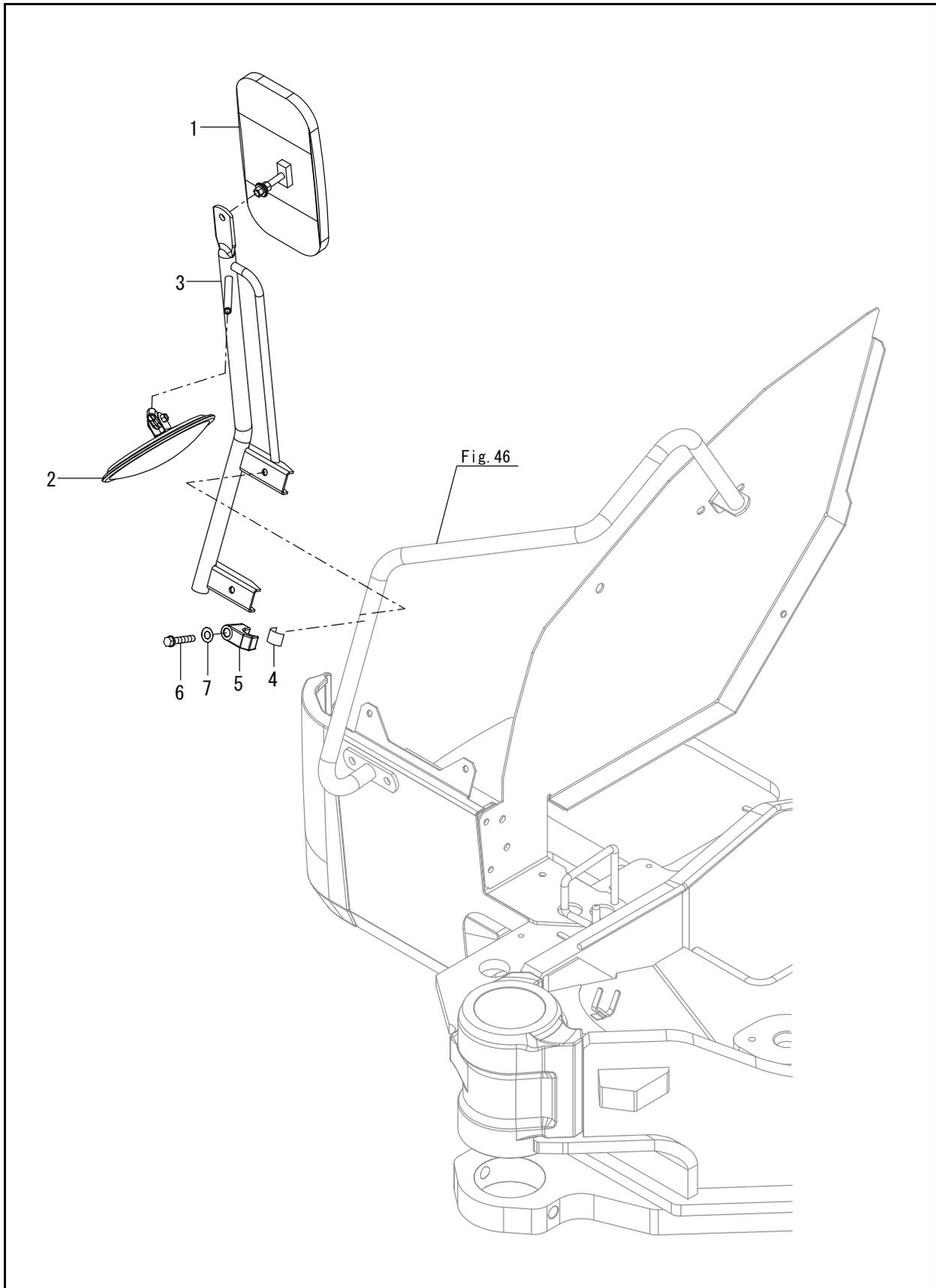
Z80 - COMPACT EXCAVATOR
FIG. 80 - CABIN ACCESSORY



Z80 - COMPACT EXCAVATOR
FIG. 80 - CABIN ACCESSORY

Ref.	No.	Part No.	Description	Qty.
	1	50281058	RUBBER PLATE	1
	2	50281785	COVER,WASHER TANK	1
	3	186593	WASHER 8	2
	4	50282506	BOLT W/WASHER M8X16	2

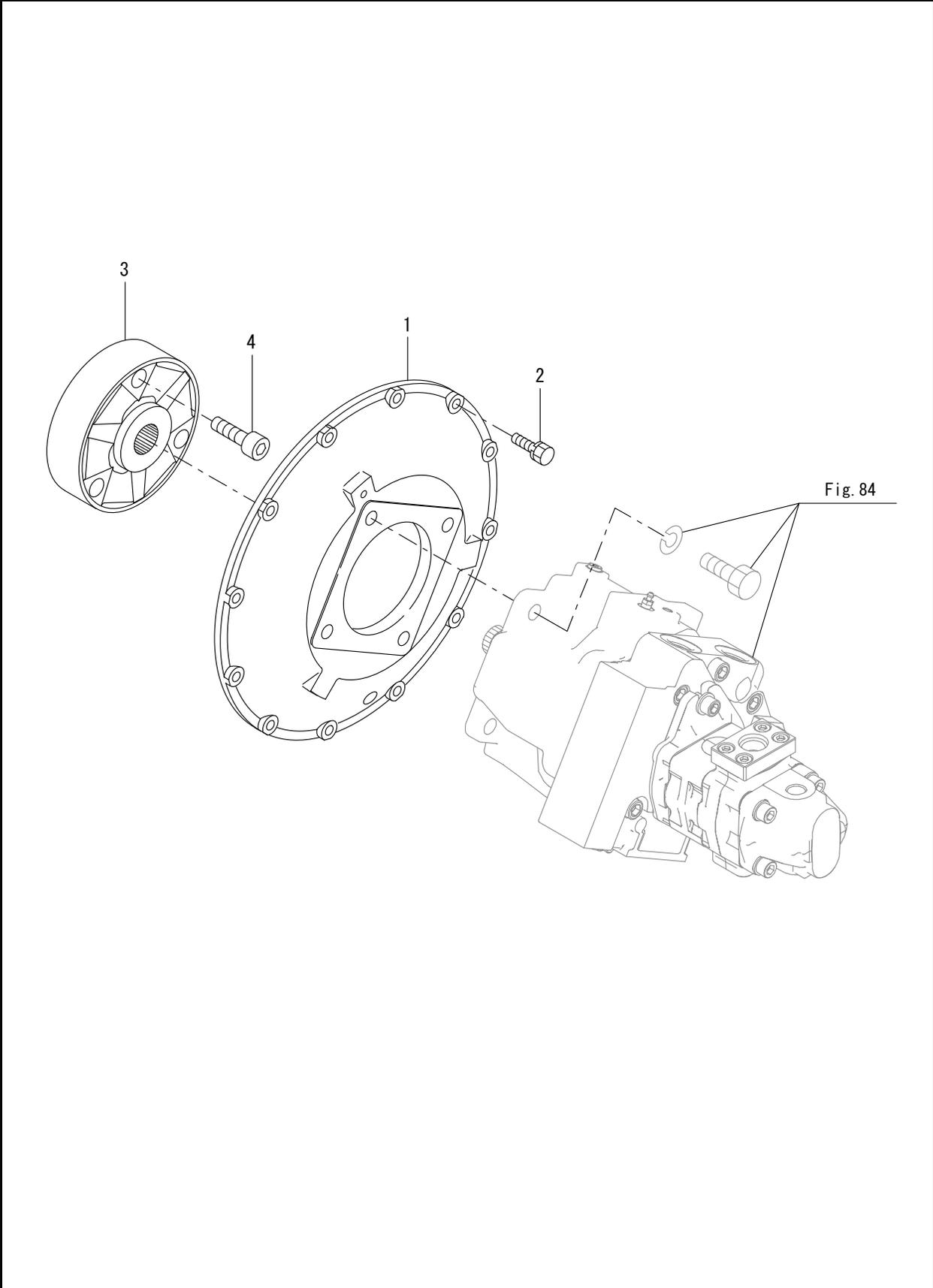
Z80 - COMPACT EXCAVATOR
FIG. 81 - SIDE MIRROR



Z80 - COMPACT EXCAVATOR
FIG. 81 - SIDE MIRROR

Ref.	No.	Part No.	Description	Qty.
	1	50282374	BACK MIRROR ASSY.	1
	2	50281414	REARVIEW MIRROR	1
	3	50286331	MIRROR ASSY	1
	4	50281853	SHEET,NON SLIP 16X50	2
	5	50286167	CLAMP, 3/4	2
	6	138111	WASHER/POLISHED	2
	7	50282522	BOLT M10X 55	2

Z80 - COMPACT EXCAVATOR
FIG. 83 - PUMP MOUNT

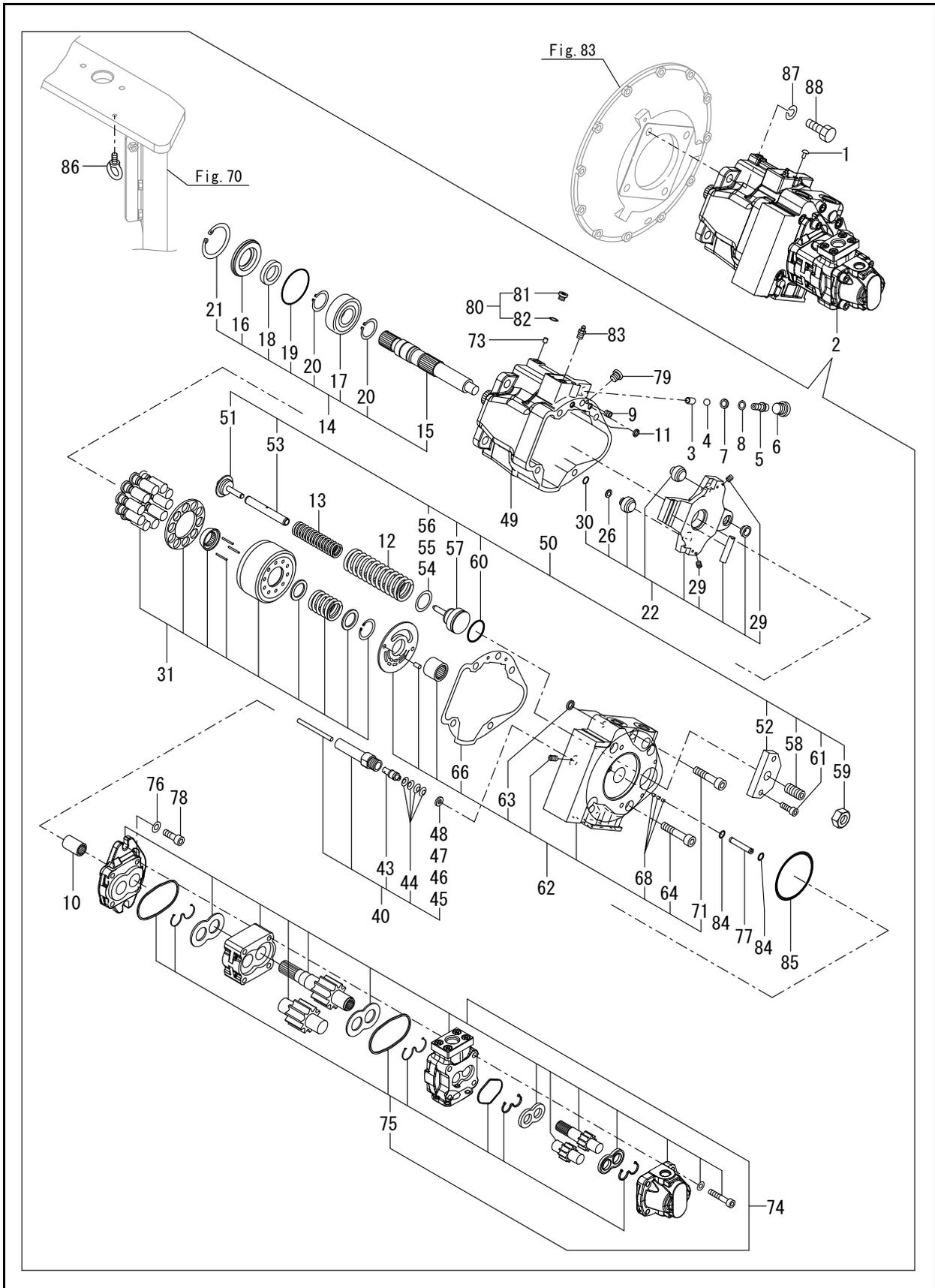


Z80 - COMPACT EXCAVATOR
FIG. 83 - PUMP MOUNT

Ref.	No.	Part No.	Description	Qty.
	1	50280952	COVER, FLYWHEEL	1
	2	50282517	BOLT M10X 30	12
	3	50281266	JOINT	1
	4	50280953	BOLT 14X 50	3

Z80 - COMPACT EXCAVATOR

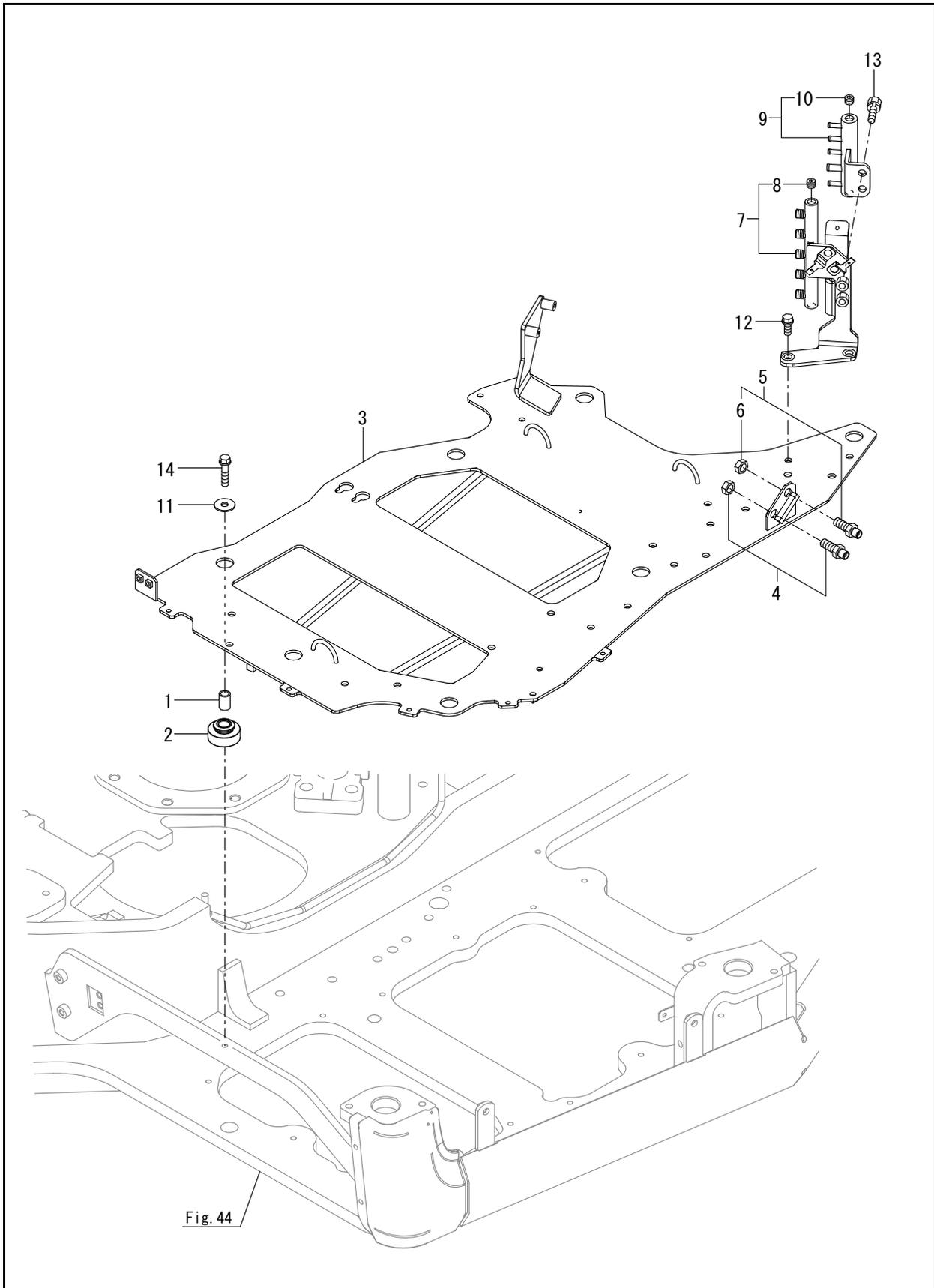
FIG. 84 - HYD. OIL PUMP



**Z80 - COMPACT EXCAVATOR
FIG. 84 - HYD. OIL PUMP**

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50280782	CLIP	1	63	50281237	RING	2
2	50282267	PUMP ASSY	1	64	50281273	BOLT,14X70HEX SOCKET	4
3	50281229	BUSHING	1	66	50281275	PACKING	1
4	50281230	BALL	1	68	50280830	ORIFICE	3
5	50281231	PLUG	1	71	50280970	BOLT 14X 65	1
6	50281232	PLUG	1	73	50280829	ORIFICE	1
7	50281233	PACKING	1	74	50282269	GEAR PUMP	1
8	50281234	SHIM	1	75	50282270	KIT,SEAL	1
9	50281235	PLUG	1	76	50282271	PLAIN WASHER	2
10	50281236	COUPLING	1	77	50282272	SLEEVE	1
11	50281237	RING	2	78	50281348	SOCKET BOLT M12X 35	2
12	50281238	SPRING	1	79	50281347	PLUG	1
13	50281239	SPRING	1	80	50280820	PLUG	1
14	50281267	SHAFT ASSY	1	81	50280821	PLUG 1/8	1
15	50281272	SHAFT	1	82	50282468	O-RING 1B P-8.0	1
16	50280955	SEAL CASE	1	83	50281129	PLUG	1
17	50280956	BEARING,	1	84	50282467	O-RING 1B P-7.0	2
18	50280957	SEAL	1	85	50282490	O-RING 1B G-105.0	1
19	50280958	O-RING 151	1	86	50282593	BOLT, EYE M10	1
20	50282400	CIRCLIP 35	2	87	50282396	SPRING WASHER 16	4
21	50282409	CIRCLIP 80	1	88	50282571	BOLT M16X 45 PLATED	4
22	50281268	SWASH PLATE ASSY	1				
26	50281274	RING	1				
29	50280812	PLUG	2				
30	50282470	O-RING 1B P-11.0	1				
31	50281269	ROTARY GROUP	1				
40	50281270	CONTROL PISTON ASSY	1				
43	50281282	PISTON	1				
44	50281283	SPRING	4				
45	50281284	PIECE	1				
46	50281285	PIECE	1				
47	50281286	PIECE	1				
48	50281287	PIECE	1				
49	50281271	HOUSING	1				
50	50281892	SPRING SEAT ASSY	1				
51	50281276	STAY,SPRING	1				
52	50281277	COVER	1				
53	50281278	GUIDE	1				
54	50281279	SHIM	1				
55	50281280	SHIM	1				
56	50281281	SHIM	1				
57	50281893	STAY,SPRING	1				
58	50280971	ADJUST SCREW	1				
59	50280972	NUT	1				
60	50282463	O-RING 1A P-44.0	1				
61	50282588	BOLT M10X 30	2				
62	50282268	COVER ASSY	1				

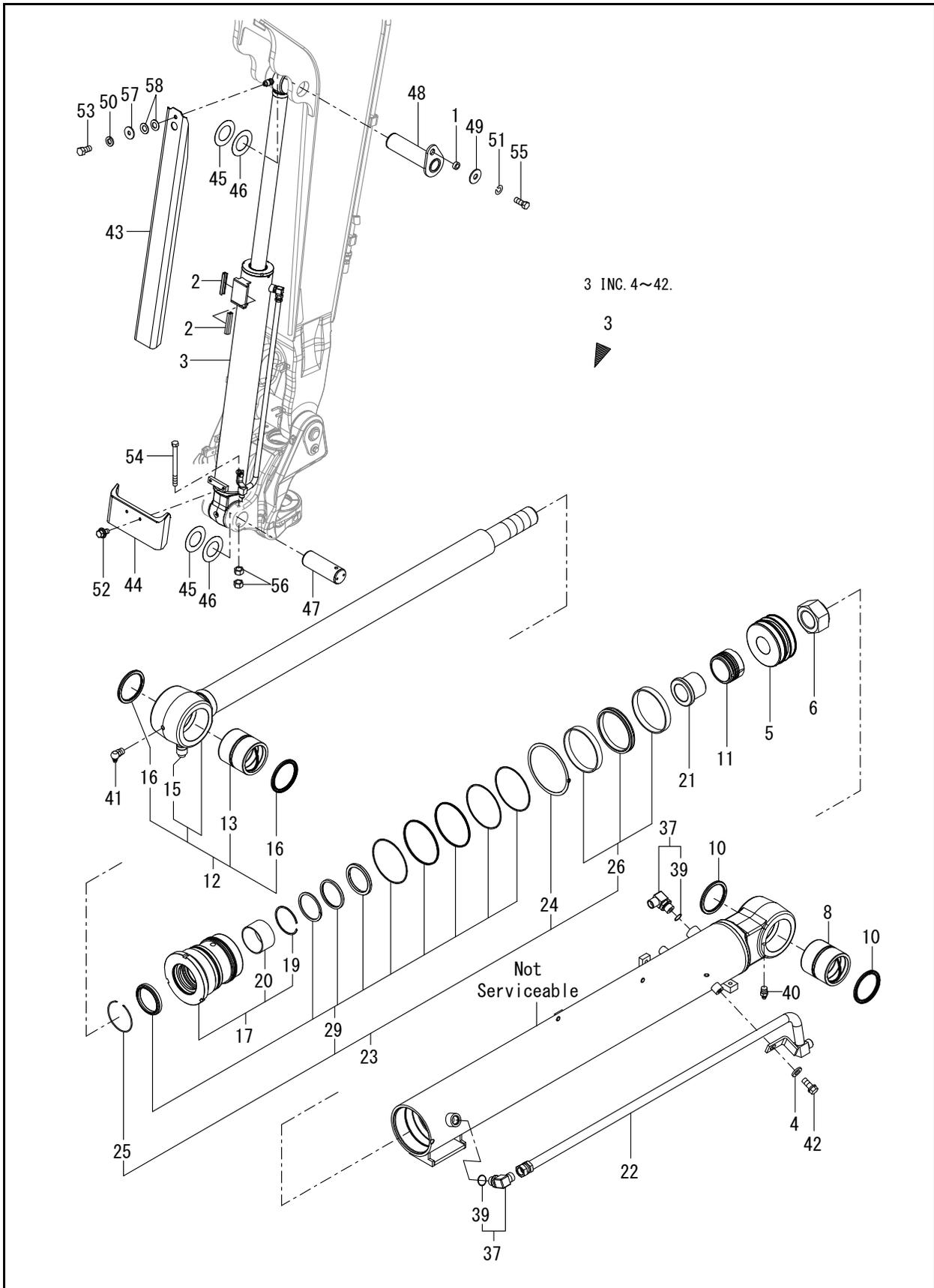
Z80 - COMPACT EXCAVATOR
FIG. 85 - CONTROL VALVE PLATE



**Z80 - COMPACT EXCAVATOR
FIG. 85 - CONTROL VALVE PLATE**

Ref.	No.	Part No.	Description	Qty.
	1	50281875	COLLAR	7
	2	50281876	GROMMET17X50	7
	3	50281877	PLATE ASSY,VALVE	1
	4	50280841	JOINT	1
	5	50282303	JOINT	1
	6	50282304	NUT,LOCK	1
	7	50281967	BLOCK MOUNT ASSY	1
	8	425-35678	PLUG PT 1/4 SCREW	1
	9	50281968	BLOCK MOUNT ASSY,DR	1
	10	425-35678	PLUG PT 1/4 SCREW	1
	11	50282387	WASHER 10	7
	12	50282516	BOLT W/WASHER M10X25	2
	13	50282516	BOLT W/WASHER M10X25	2
	14	50282520	BOLT M10X 45	7

Z80 - COMPACT EXCAVATOR
FIG. 86 - BOOM CYLINDER

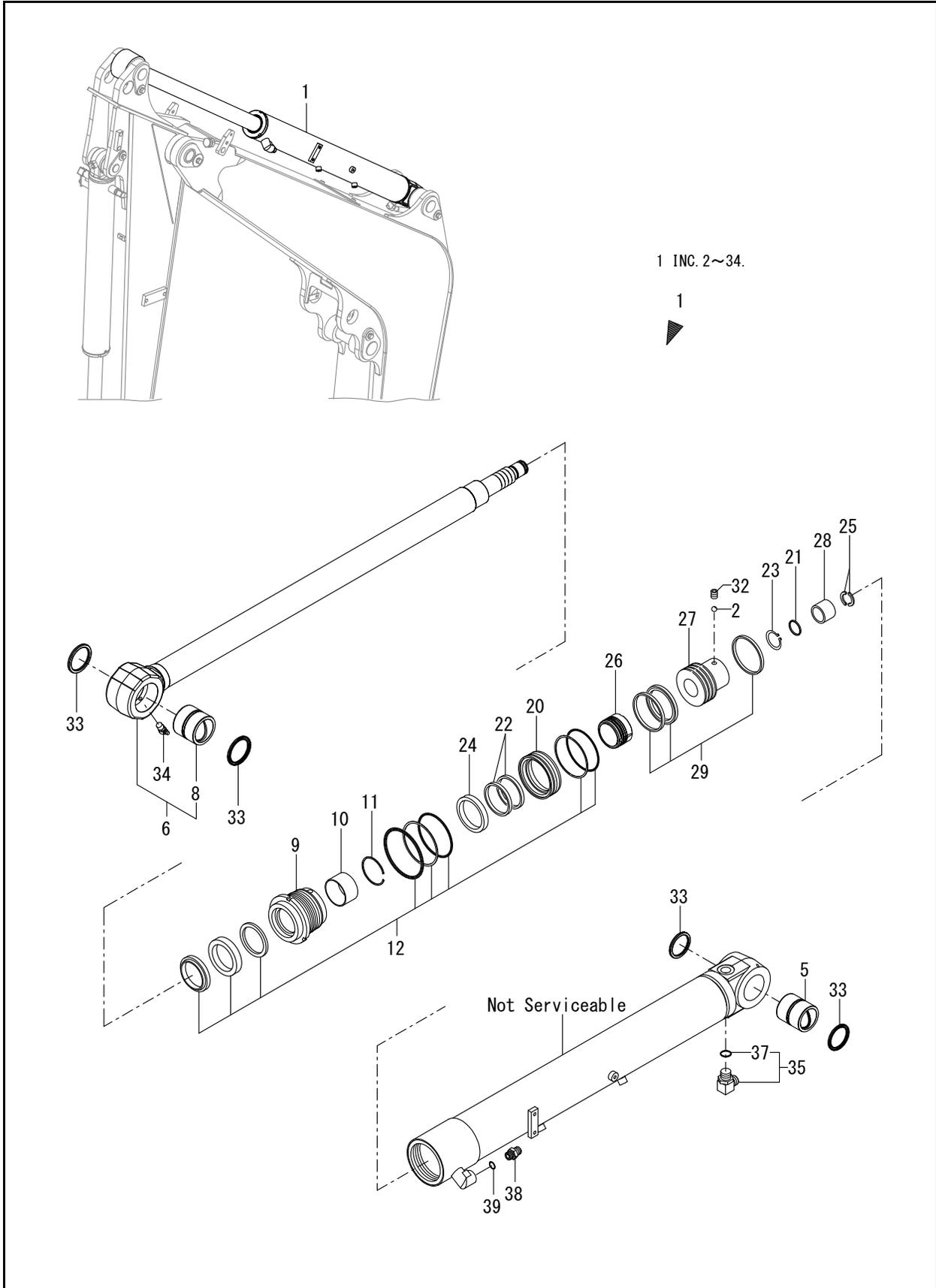


**Z80 - COMPACT EXCAVATOR
FIG. 86 - BOOM CYLINDER**

Ref. No.	Part No.	Description	Qty.
1	50280845	SPACER	1
2	50280864	GUIDE,SLIDE	2
3	50282238	BOOM CYLINDER	1
4	50282350	WASHER 10	1
5	50280745	PISTON 115	1
6	50280747	U-NUT M45X3	1
8	50280744	BUSHING 70 85	1
10	50280880	SEAL 70X85X6,DUST	2
11	50281198	PLUNGER 72,CUSHION	1
12	50281412	ROD ASSY,BOOM	1
13	50280744	BUSHING 70 85	1
15	50281197	SEAT, SCREW M10	1
16	50280880	SEAL 70X85X6,DUST	2
17	50282240	HEAD ASSY 115 65	1
19	50281288	SPRING RING 72	1
20	50282496	BUSHING 65X40,DRIVE	1
21	50281199	COLLAR 45 59,CUSHION	1
22	50282241	BOOM PIPING	1
23	50282264	SEAL SET, CYL.115X65	1
24	50280746	WASHER 115,LOCK	1
25	50280748	RING 82,SPRING	1
26	50280765	SEAL SET 115,PISTON	1
29	50282265	HEAD SEAL SET,115X65	1
37	50280814	CONNECTOR 1/2L	2
39	50282474	O-RING 1B P-18.0	2
40	50282497	NIPPLE PT1/8,GREASE	1
41	50282499	NIPPLE C,GREASE	1
42	50282516	BOLT W/WASHER M10X25	1
43	50280954	SLIDE COVER	1
44	50282266	HOSE BOOM COVER	1
45	50280915	SHIM	2
46	50280916	SHIM	2
47	50280988	PIN, 70X200	1
48	50282341	PIN ASSY,70X252	1
49	50282389	WASHER, 14	1
50	50282393	SPRING WASHER 10	1
51	188712	SPRING/WASHER 14	1
52	50282538	BOLT M10X 20	2
53	50282564	BOLT M10X 20 PLATED	1
54	50282565	BOLT M12X140 PLATED	1
55	50282567	BOLT M14X 35 PLATED	1
56	210-32084	NUT, HEX M12 X 1.75	2
57	50282617	WASHER, BRAKE ARM	1
58	50282620	SPRING 16	2

Z80 - COMPACT EXCAVATOR

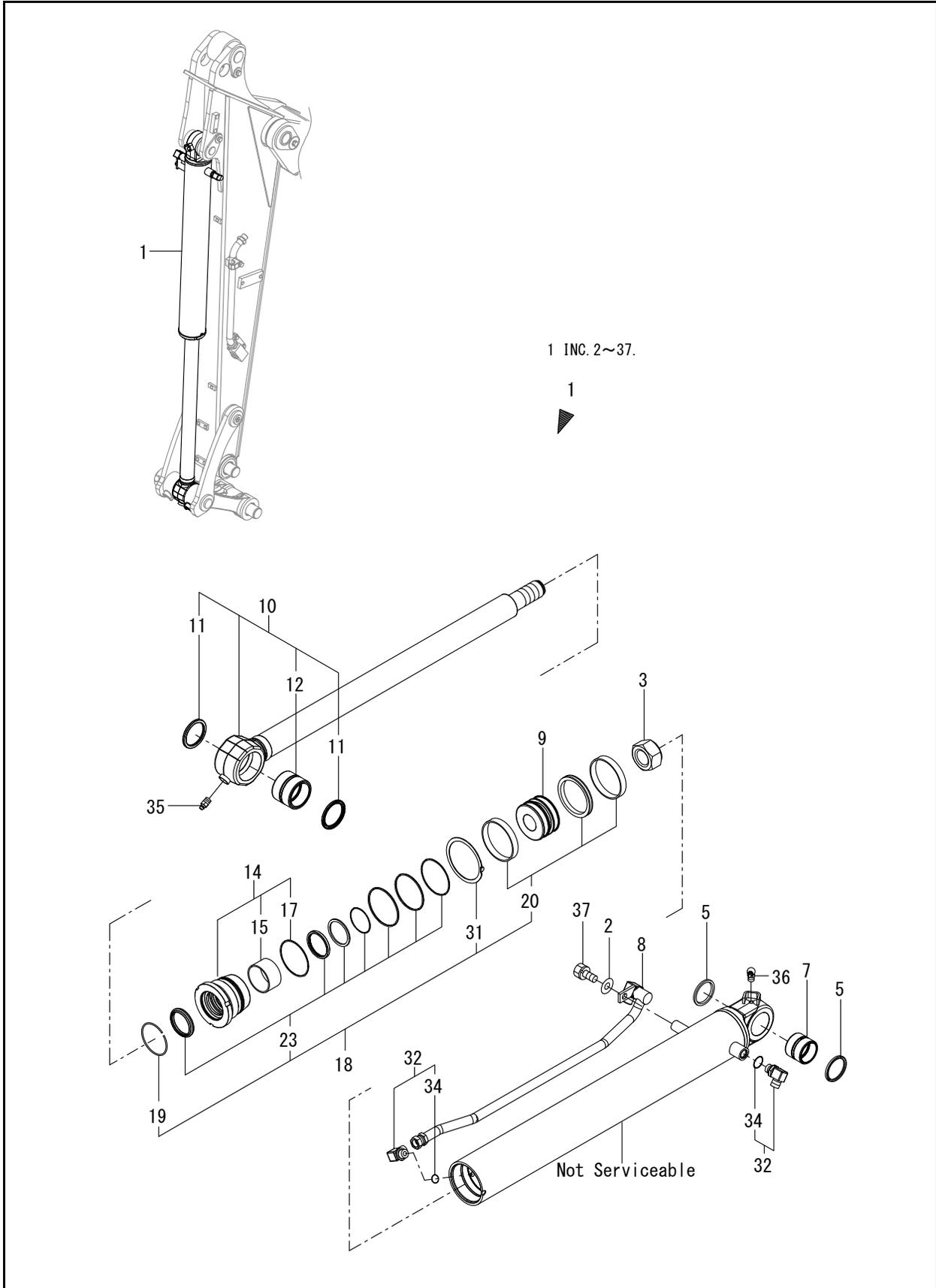
FIG. 87 - ARM CYLINDER



**Z80 - COMPACT EXCAVATOR
FIG. 87 - ARM CYLINDER**

Ref.			
No.	Part No.	Description	Qty.
1	50282243	CYLINDER ARM	1
2	50280795	BALL	1
5	50281882	PIN BUSHING	1
6	50282245	ROD KIT, PISTON	1
8	50281883	PIN BUSHING	1
9	50282246	HEAD, CYLINDER	1
10	50282247	BUSHING	1
11	50282248	RING,SNAP	1
12	50282249	REPAIR KIT,CYLINDER	1
20	50282250	HOLDER	1
21	50281879	SEAL, CUSHION	1
22	50282251	SEAL, CUSHION	2
23	50281880	RING,SNAP	1
24	50282252	COLLAR	1
25	50281881	STOPPER	2
26	50282253	BEARING, CUSHION	1
27	50282254	PISTON	1
28	50282255	BEARING, CUSHION	1
29	50282263	REPAIR KIT,CYLINDER	1
32	50280872	SCREW,SET	1
33	50280873	SEAL,DUST	4
34	50282499	NIPPLE C,GREASE	1
35	50280814	CONNECTOR 1/2L	1
37	50282474	O-RING 1B P-18.0	1
38	50280778	CONNECTOR	1
39	50282609	O RING	1

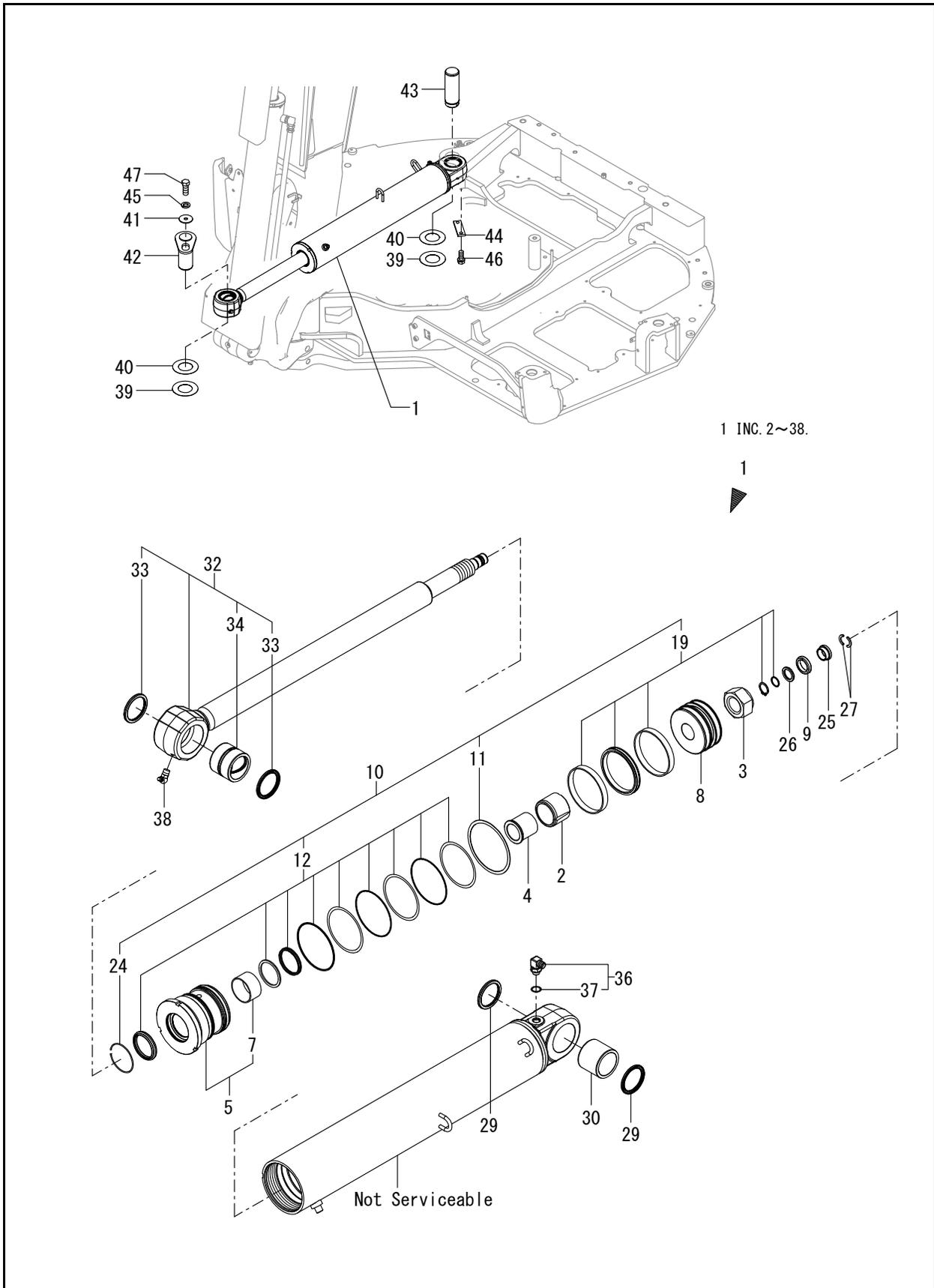
Z80 - COMPACT EXCAVATOR
FIG. 88 - BUCKET CYLINDER



**Z80 - COMPACT EXCAVATOR
FIG. 88 - BUCKET CYLINDER**

Ref.	No.	Part No.	Description	Qty.
	1	50282256	BUCKET CYLINDER	1
	2	50282350	WASHER 10	1
	3	50280751	U-NUT M42 X 3	1
	5	50281061	SEAL 50X60X4,DUST	2
	7	50280838	BUSHING 50X60	1
	8	50282258	BUCKET TUBE ASSY	1
	9	50281380	PISTON 95	1
	10	50282259	ROD ASSY,BUCKET	1
	11	50280749	SEAL 60 X 75 X 5	2
	12	50280753	BUSHING 60 58	1
	14	50282260	HEAD ASSY 95 60	1
	15	50281054	ROD BUSHING 60 35	1
	17	50282390	CIRCLIP 65X3.2	1
	18	50282261	SEAL SET, CYL. 95X60	1
	19	50281053	RING 77	1
	20	50281381	SEAL SET 95,PISTON	1
	23	50282262	SEAL SET, HEAD 95X60	1
	31	50281289	WASHER,LOCK 95-114	1
	32	50280814	CONNECTOR 1/2L	2
	34	50282474	O-RING 1B P-18.0	2
	35	50282497	NIPPLE PT1/8,GREASE	1
	36	50282499	NIPPLE C,GREASE	1
	37	50282516	BOLT W/WASHER M10X25	1

Z80 - COMPACT EXCAVATOR
FIG. 89 - SWING CYLINDER

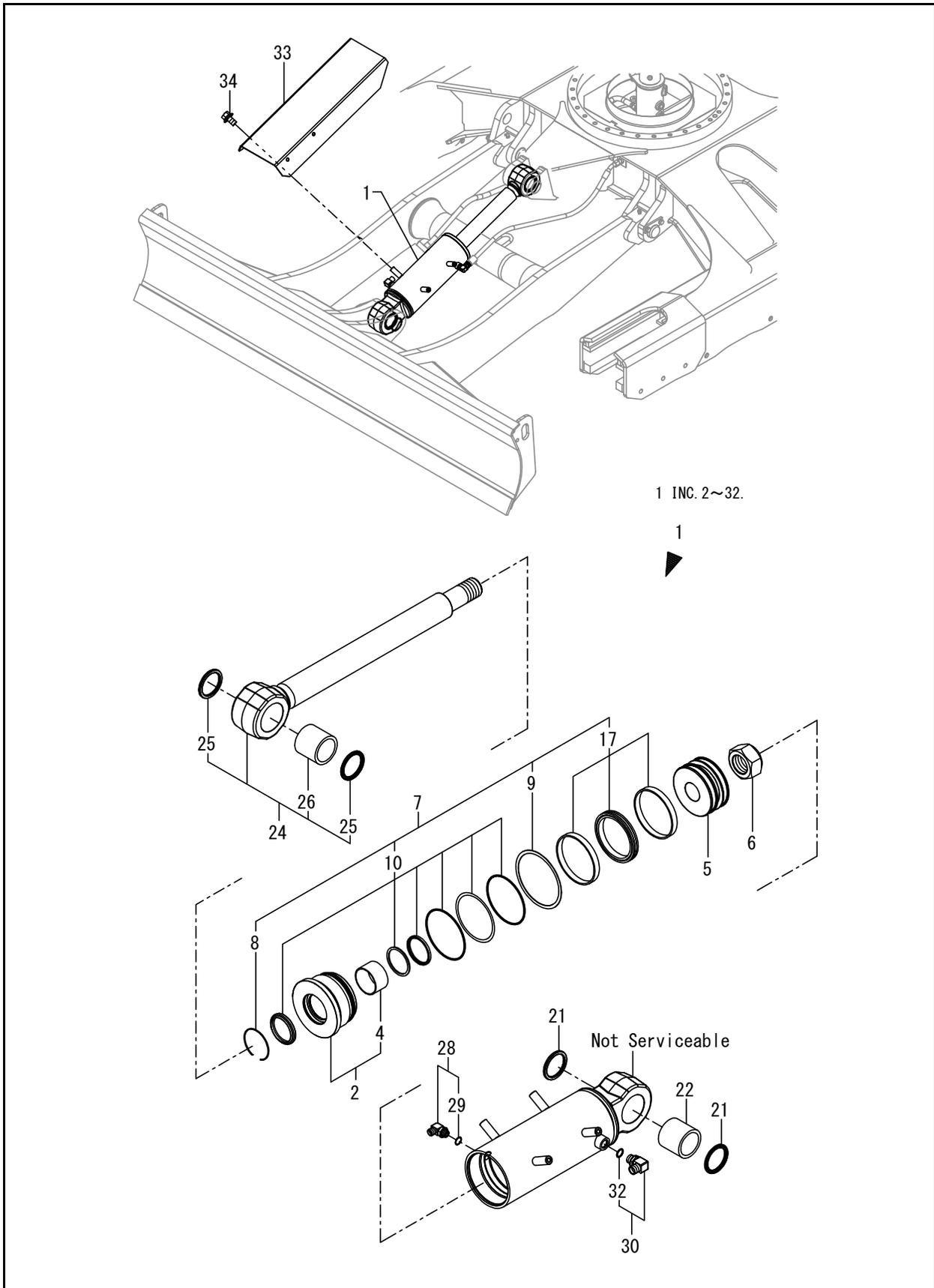


**Z80 - COMPACT EXCAVATOR
FIG. 89 - SWING CYLINDER**

Ref. No.	Part No.	Description	Qty.
1	50281885	SWING CYLINDER	1
2	50280750	PLUNGER 64A,CUSHION	1
3	50280751	U-NUT M42 X 3	1
4	50280752	COLLAR, CUSHION	1
5	50280756	HEAD CMP 120 60	1
7	50281054	ROD BUSHING 60 35	1
8	50280757	PISTON 120	1
9	50280758	RING 44-1.6	1
10	50280766	KIT,CYL SEAL 120 X 60	1
11	50280759	ROCK WASHER 120	1
12	50280767	SET,HEAD SEAL 120X60	1
19	50280768	SET,PISTON SEAL 120	1
24	50281053	RING 77	1
25	50281009	COLLAR	1
26	50281010	SPACER	1
27	50281011	STOPPER	2
29	50280749	SEAL 60 X 75 X 5	2
29	50280749	SEAL 60 X 75 X 5	2
30	50280754	BUSHING 60 63 A	1
32	50281887	ROD ASSY,SWING	1
33	50280749	SEAL 60 X 75 X 5	2
34	50280755	BUSHING 60 60 B	1
36	50280823	JOINT 90-3/8 ASSY	1
37	50282471	O-RING 1B P-14.0	1
38	50282499	NIPPLE C,GREASE	1
39	50280910	SHIM 60X110X0.8	4
40	50280911	SHIM	4
41	50280991	WASHER	1
42	50280994	PIN 60X144	1
43	50282077	PIN 60X155	1
44	50280886	LOCK PLATE	1
45	188712	SPRING/WASHER 14	1
46	50282525	BOLT W/WASHER M12X30	2
47	50282567	BOLT M14X 35 PLATED	1

Z80 - COMPACT EXCAVATOR

FIG. 90 - BLADE CYLINDER

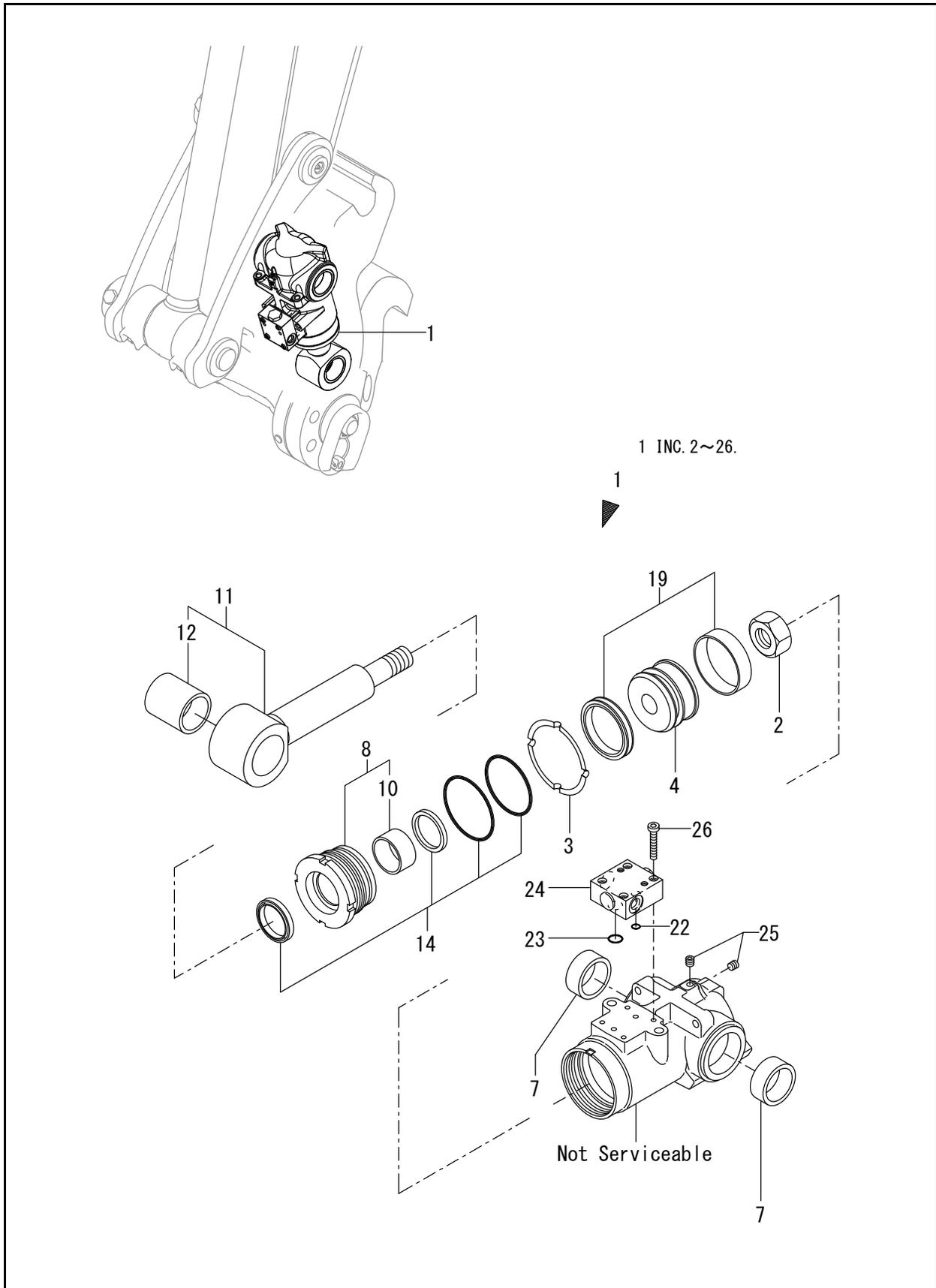


Z80 - COMPACT EXCAVATOR
FIG. 90 - BLADE CYLINDER

Ref.	No.	Part No.	Description	Qty.
	1	50281888	BLADE CYLINDER	1
	2	50280761	HEAD 130 65	1
	4	50282496	BUSHING 65X40,DRIVE	1
	5	50280762	PISTON 130	1
	6	50280764	U-NUT M48X3	1
	7	50280769	SEAL SET 130X65,CYL.	1
	8	50280748	RING 82,SPRING	1
	9	50280763	WASHER 130,LOCK	1
	10	50280770	SEAL SET 130X65,HEAD	1
	17	50280771	SEAL SET 130,PISTON	1
	21	50280749	SEAL 60 X 75 X 5	2
	22	50280760	BUSHING 60 68	1
	24	50281890	ROD ASSY,BLADE	1
	25	50280749	SEAL 60 X 75 X 5	2
	26	50280760	BUSHING 60 68	1
	28	50280823	JOINT 90-3/8 ASSY	1
	29	50282471	O-RING 1B P-14.0	1
	30	50280814	CONNECTOR 1/2L	1
	32	50282474	O-RING 1B P-18.0	1
	33	50281891	BLADE COVER ASSY	1
	34	50282538	BOLT M10X 20	4

Z80 - COMPACT EXCAVATOR

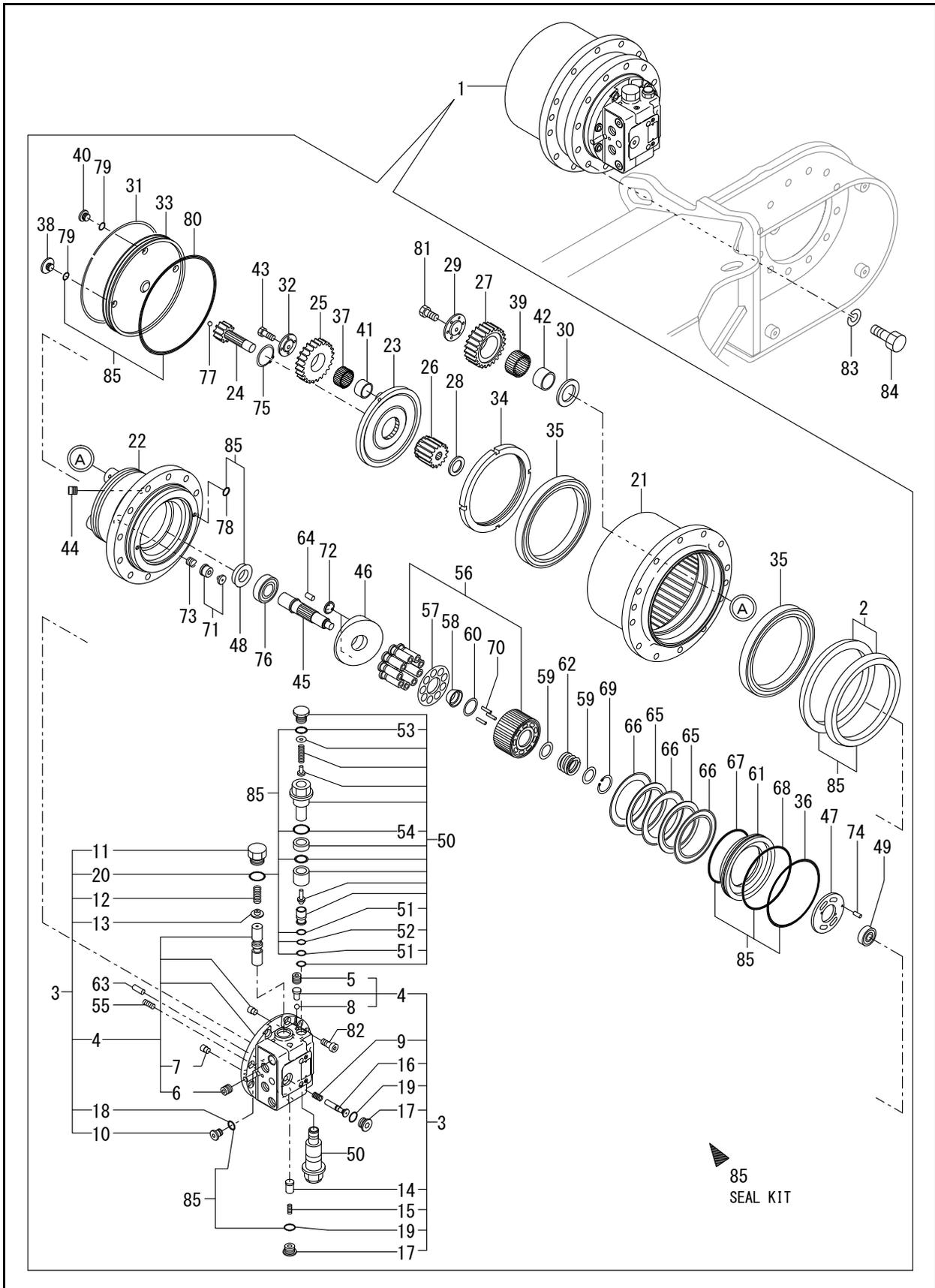
FIG. 91 - HITCH CYLINDER



Z80 - COMPACT EXCAVATOR
FIG. 91 - HITCH CYLINDER

Ref.			
No.	Part No.	Description	Qty.
1	50281382	CYLINDER HITCH	1
2	50280811	U-NUT M27	1
3	50280818	WASHER 80 B	1
4	50280907	PISTON 80	1
7	50281386	BUSHING 45-55-22	2
8	50281384	HEAD 80 45	1
10	50282495	BEARING, 45 X 25	1
11	50281385	ROD ASSY,HITCH	1
12	50280837	BUSHING 45 60	1
14	50281387	HEAD SEAL SET 80X45	1
19	50280819	SEAL SET, PISTON	1
22	50281374	O-RING P8	1
23	50281375	O-RING P14	1
24	50283277	VALVE ASSY,OPERATE	1
25	50282446	PLUG, PT1/16	2
26	50282582	BOLT M 6X 30	4

Z80 - COMPACT EXCAVATOR
FIG. 92 - TRAVEL MOTOR

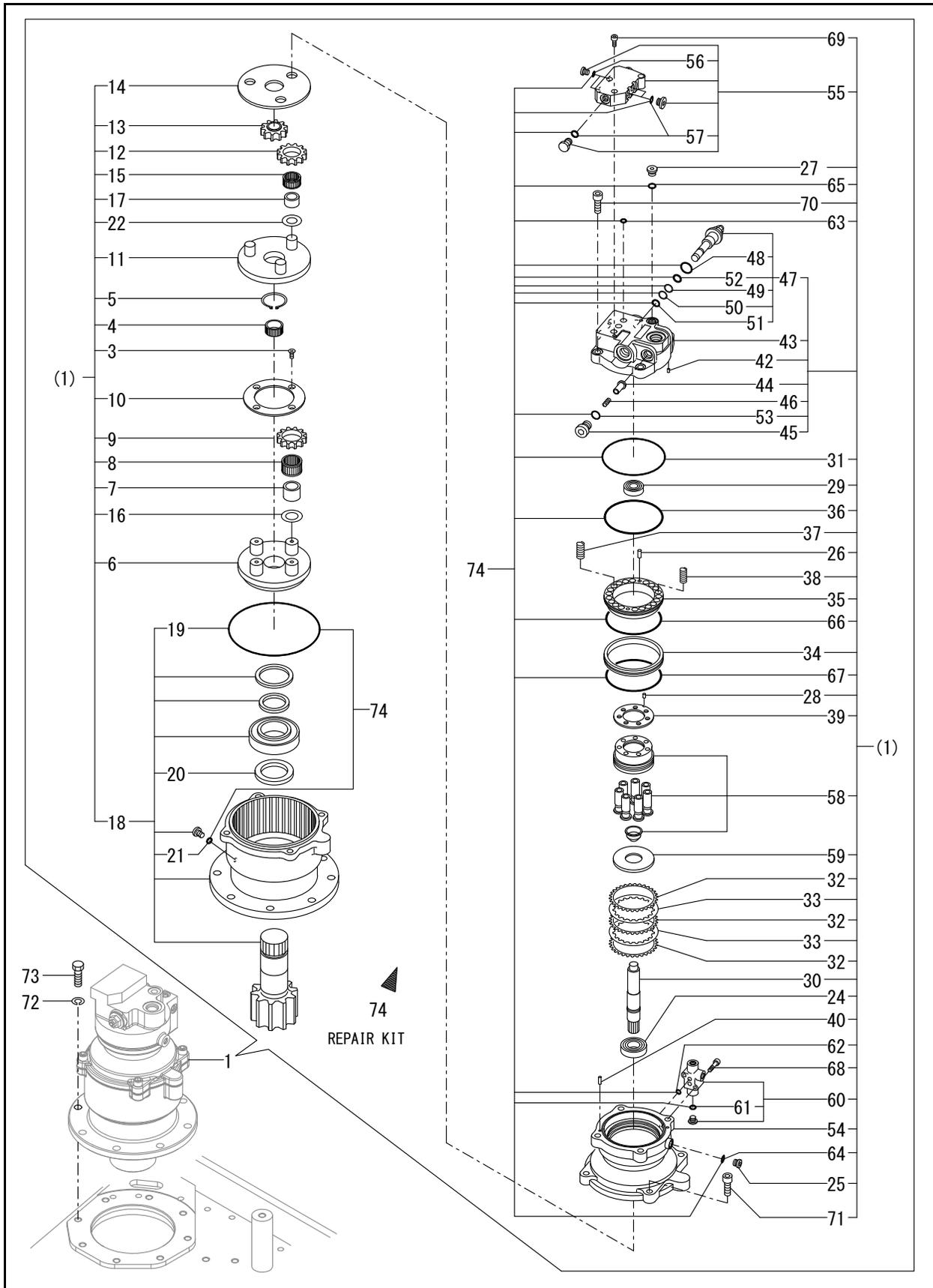


Z80 - COMPACT EXCAVATOR FIG. 92 - TRAVEL MOTOR

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50282273	MOTOR ASSY, DRIVE	2	48	50281530	SEAL, OIL	2
2	50281506	SEAL KIT, FLOATING	2	49	50281531	BEARING	2
3	50282274	FLANGE, REAR	2	50	50281532	VALVE ASSY, RELIEF	4
4	50282275	FLANGE, REAR	2	51	50281533	RING, BACK-UP	8
5	50281212	PLUG	6	52	50282469	O-RING 1B P-10.0	4
6	50281213	PLUG	8	53	50282470	O-RING 1B P-11.0	4
7	50281904	ORIFICE	2	54	50282475	O-RING 1B P-20.0	4
8	50282455	BALL 3/16	2	55	50281210	SPRING	20
9	50282276	SPRING	2	56	50281291	PISTON ASSEMBLE	2
10	50281209	PLUG	2	57	50281292	RETAINER PLATE	2
11	50281534	PLUG	4	58	50281293	THRUST BALL	2
12	50281535	SPRING	4	59	50281294	WASHER	4
13	50281214	SPRING RETAINER	4	60	50281295	WASHER	2
14	50281215	VALVE	4	61	50281296	PISTON, HYDRAULIC	2
15	50281216	SPRING	4	62	50281297	SPRING	2
16	50281903	SPOOL	2	63	50281211	PIN, STRAIGHT	4
17	50281217	PLUG	6	64	50281211	PIN, STRAIGHT	4
18	50282471	O-RING 1B P-14.0	2	65	50281298	PLATE, FRICTION	4
19	50282474	O-RING 1B P-18.0	6	66	50281299	PLATE	6
20	50282479	O-RING 1B P-26.0	4	67	50281300	O-RING	2
21	50281507	HUB	2	68	50281301	O-RING	2
22	50281508	SPINDLE	2	69	50281302	RING	2
23	50281509	CARRIER	2	70	50281303	ROLLER	6
24	50281510	SUN GEAR 1	2	71	50281304	PISTON ASSEMBLY	2
25	50281511	PLANETARY, GEAR 1	6	72	50281305	PIVOT	4
26	50281512	SUN GEAR 2	2	73	50281306	SPRING	2
27	50281513	PLANETARY, GEAR 2	8	74	50281218	PIN, STRAIGHT	2
28	50281514	COLLAR, THRUST	2	75	50282403	CIRCLIP 45	2
29	50281515	WASHER 1, THRUST	8	76	50282452	BALL BEARING	2
30	50281516	WASHER 2, THRUST	8	77	50282457	BALL 3/8, STEEL	2
31	50281207	RING	2	78	50282467	O-RING 1B P-7.0	4
32	50281517	WASHER 3, THRUST	6	79	50282471	O-RING 1B P-14.0	6
33	50281518	COVER	2	80	50282487	O-RING, 1A G230.0	2
34	50281519	NUT, RING	2	81	50282550	BOLT, 10X20	8
35	50281520	B. BEARING	4	82	50282589	BOLT M12X30	16
36	50281290	O-RING	2	83	50282396	SPRING WASHER 16	24
37	50281521	ROLLER	6	84	50282571	BOLT M16X 45 PLATED	24
38	50281208	NUT	2	85	50281536	KIT, SEAL	1
39	50281522	ROLLER	8				
40	50281209	PLUG	4				
41	50281523	RING, INNER	6				
42	50281524	RING, INNER	8				
43	50281525	BOLT M8X20 10.9T	6				
44	50281526	SCREW 8X12	4				
45	50281527	SHAFT	2				
46	50281528	SWASH PLATE	2				
47	50281529	PLATE, TIMING	2				

Z80 - COMPACT EXCAVATOR

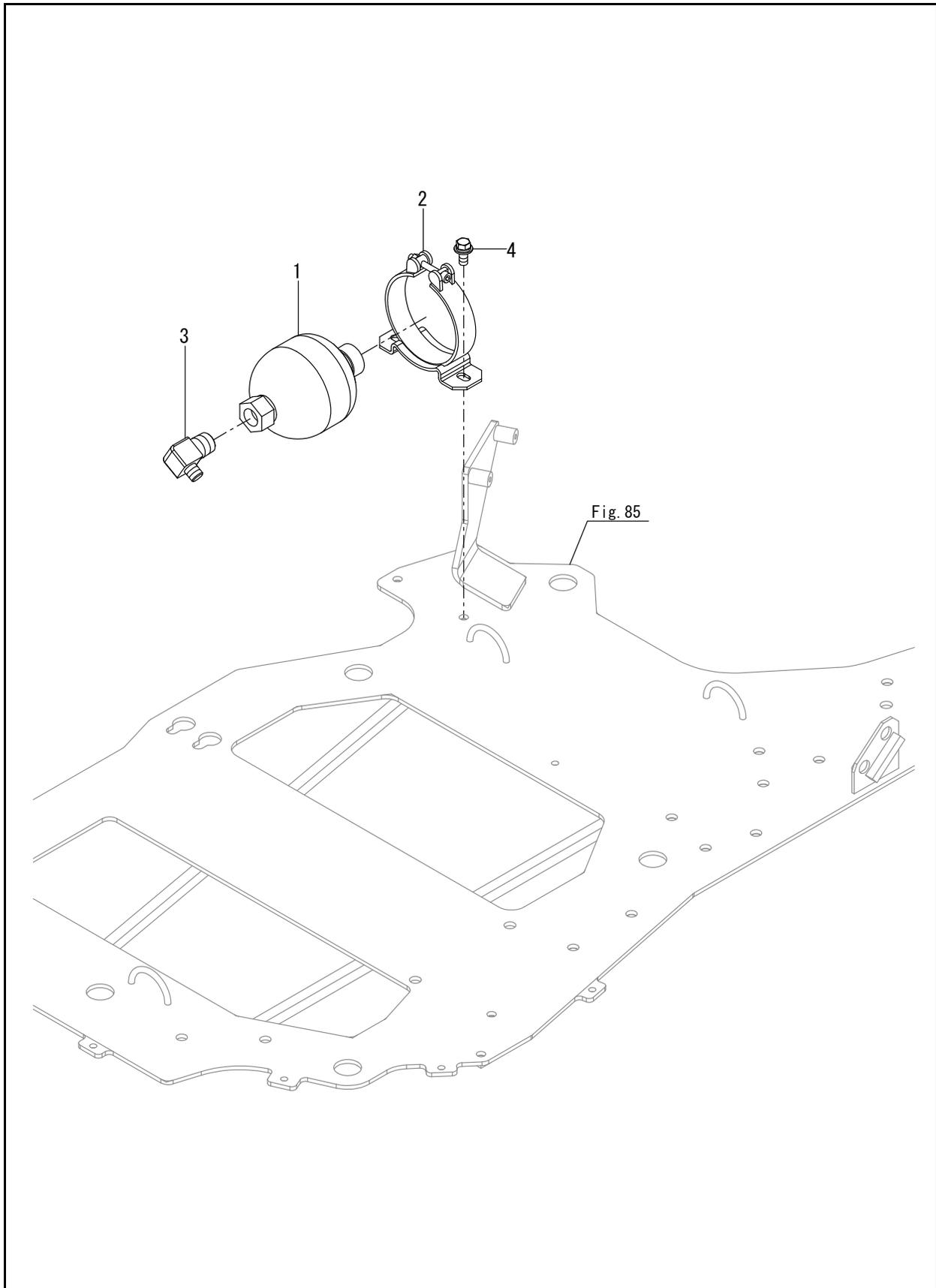
FIG. 93 - TURNING MOTOR



Z80 - COMPACT EXCAVATOR FIG. 93 - TURNING MOTOR

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50281894	MOTOR ASSY, SWING	1	51	50282472	O-RING 1B P-15.0	2
3	50280867	SCREW	4	52	50282473	O-RING 1B P-16.0	2
4	50280868	GEAR,SUN	1	53	50282476	O-RING 1B P 21	2
5	50280869	RING,SNAP	1	54	50281896	CASE	1
6	50281240	HOLDER	1	55	50281898	VALVE ASSY	1
7	50281241	RACE,INNER	4	56	50282470	O-RING 1B P-11.0	2
8	50281242	BEARING,NEEDLE	4	57	50282471	O-RING 1B P-14.0	4
9	50281243	GEAR,PLANETARY	4	58	50281899	CYLINDER BLOCK ASSY	1
10	50281244	PLATE,THRUST	1	59	50281901	PLATE,THRUST	1
11	50281245	HOLDER	1	60	50281902	VALVE ASSY	1
12	50281246	GEAR,PLANETARY	3	61	50282470	O-RING 1B P-11.0	1
13	50281247	GEAR,DRIVE	1	62	50282467	O-RING 1B P-7.0	2
14	50281265	PLATE THRUST KIT	1	63	50282469	O-RING 1B P-10.0	3
15	50281062	NEEDLE BEARING	3	64	50282470	O-RING 1B P-11.0	1
16	50281012	WASHER	4	65	50282471	O-RING 1B P-14.0	1
17	50281063	INNER RACE	3	66	50282491	O-RING, 1B G130.0	1
18	50281900	HOUSING ASSY	1	67	50282492	PACKING, G145.0	1
19	50280866	O-RING	1	68	50282582	BOLT M 6X 30	2
20	50281895	SEAL, OIL	1	69	50282586	BOLT M 8X 20	3
21	50282468	O-RING 1B P-8.0	1	70	50282590	BOLT, 14 X 40	4
22	50281064	WASHER,THRUST	3	71	50282590	BOLT, 14 X 40	4
24	50280785	BEARING	1	72	50282396	SPRING WASHER 16	8
25	50280836	PLUG	1	73	50282553	BOLT, 16 X 50	8
26	50280786	PIN	2	74	50281264	REPAIR KIT	1
27	50280828	PLUG	1				
28	50280787	PIN	1				
29	50280870	BEARING,BALL	1				
30	50281248	SHAFT	1				
31	50280871	O-RING	1				
32	50281249	DISK	3				
33	50281250	PLATE,FRICTION	2				
34	50281251	COLLAR	1				
35	50281252	PISTON,BRAKE	1				
36	50281253	O-RING AS568-257	1				
37	50281254	SPRING	12				
38	50281255	SPRING	8				
39	50281262	PLATE,VALVE	1				
40	50281263	PIN	2				
42	50280796	ORIFICE	1				
43	50281256	COVER	1				
44	50281257	POPPET	2				
45	50281258	PLUG	2				
46	50281259	SPRING	2				
47	50281897	VALVE ASSY,RELIEF	2				
48	50281260	O-RING AS568-916	2				
49	50281261	RING,BACK-UP	2				
50	50281002	RING, BUCK UP	2				

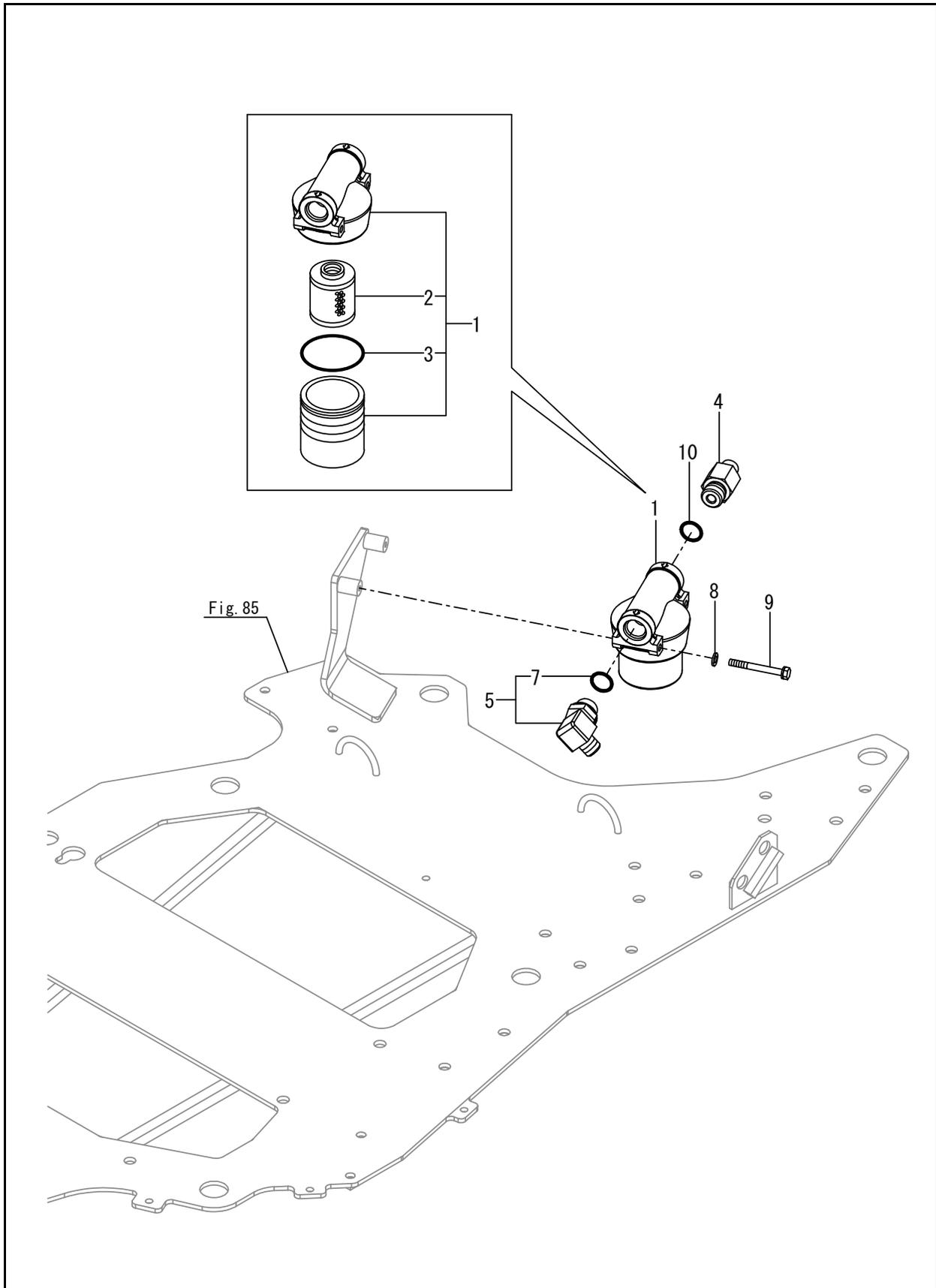
Z80 - COMPACT EXCAVATOR
FIG. 94 - ACCUMULATOR



Z80 - COMPACT EXCAVATOR
FIG. 94 - ACCUMULATOR

Ref.	No.	Part No.	Description	Qty.
	1	50281200	ACCUMULATOR	1
	2	50281201	CLAMP	1
	3	50281206	CONNECTOR	1
	4	50282534	BOLT M 8X 20	1

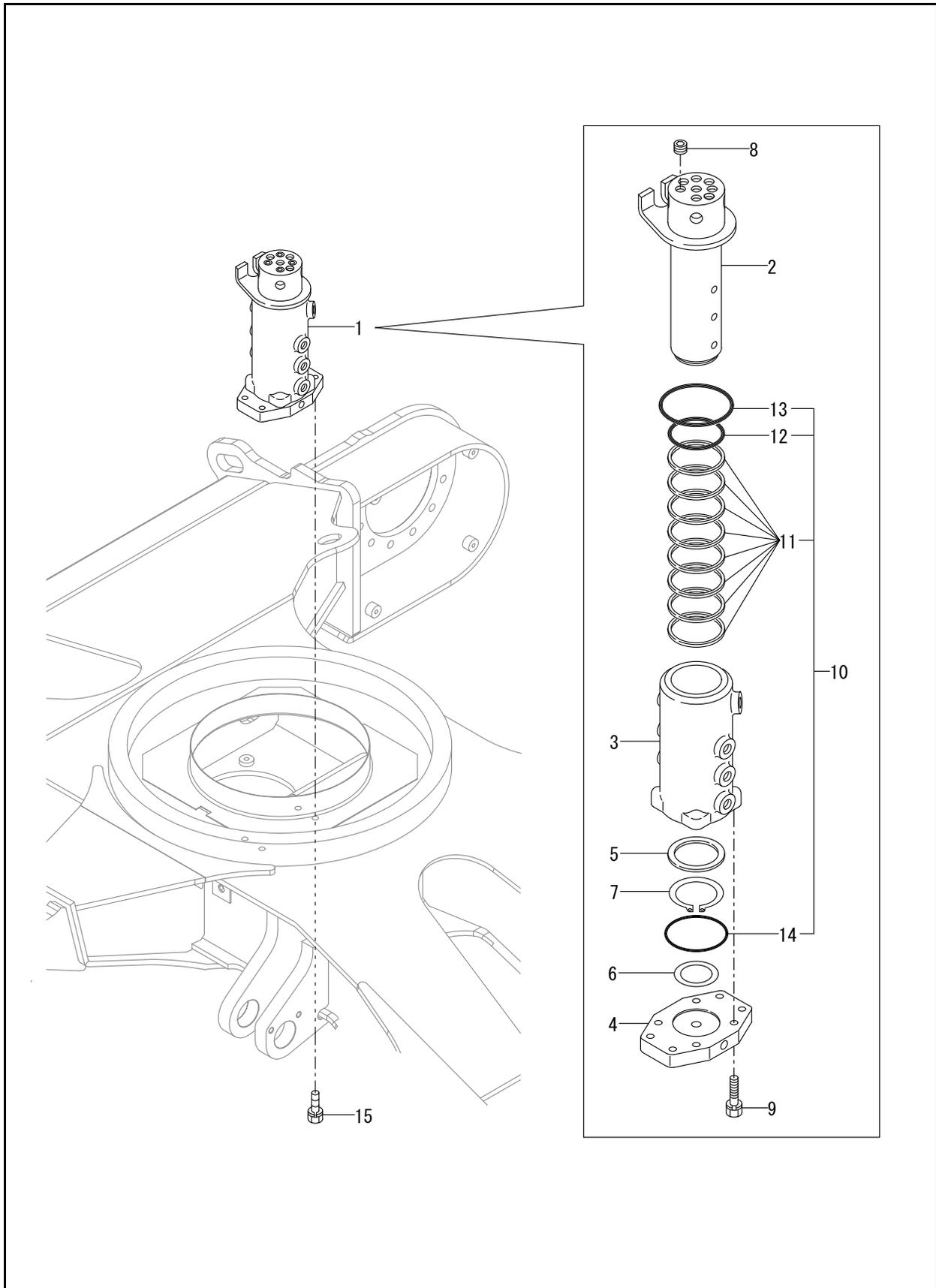
Z80 - COMPACT EXCAVATOR
FIG. 95 - LINE FILTER



Z80 - COMPACT EXCAVATOR
FIG. 95 - LINE FILTER

Ref.			
No.	Part No.	Description	Qty.
1	50281353	LINE FILTER	1
2	50281354	FILTER ELEMENT	1
3	50281355	O RING	1
4	50281013	CONNECTOR	1
5	50280850	ELBOW 3/8-1/2	1
7	50282474	O-RING 1B P-18.0	1
8	50282379	WASHER 6, POLISHED	2
9	50282504	BOLT, 6 X 55	2
10	50282609	O RING	1

Z80 - COMPACT EXCAVATOR
FIG. 96 - SWIVEL JOINT

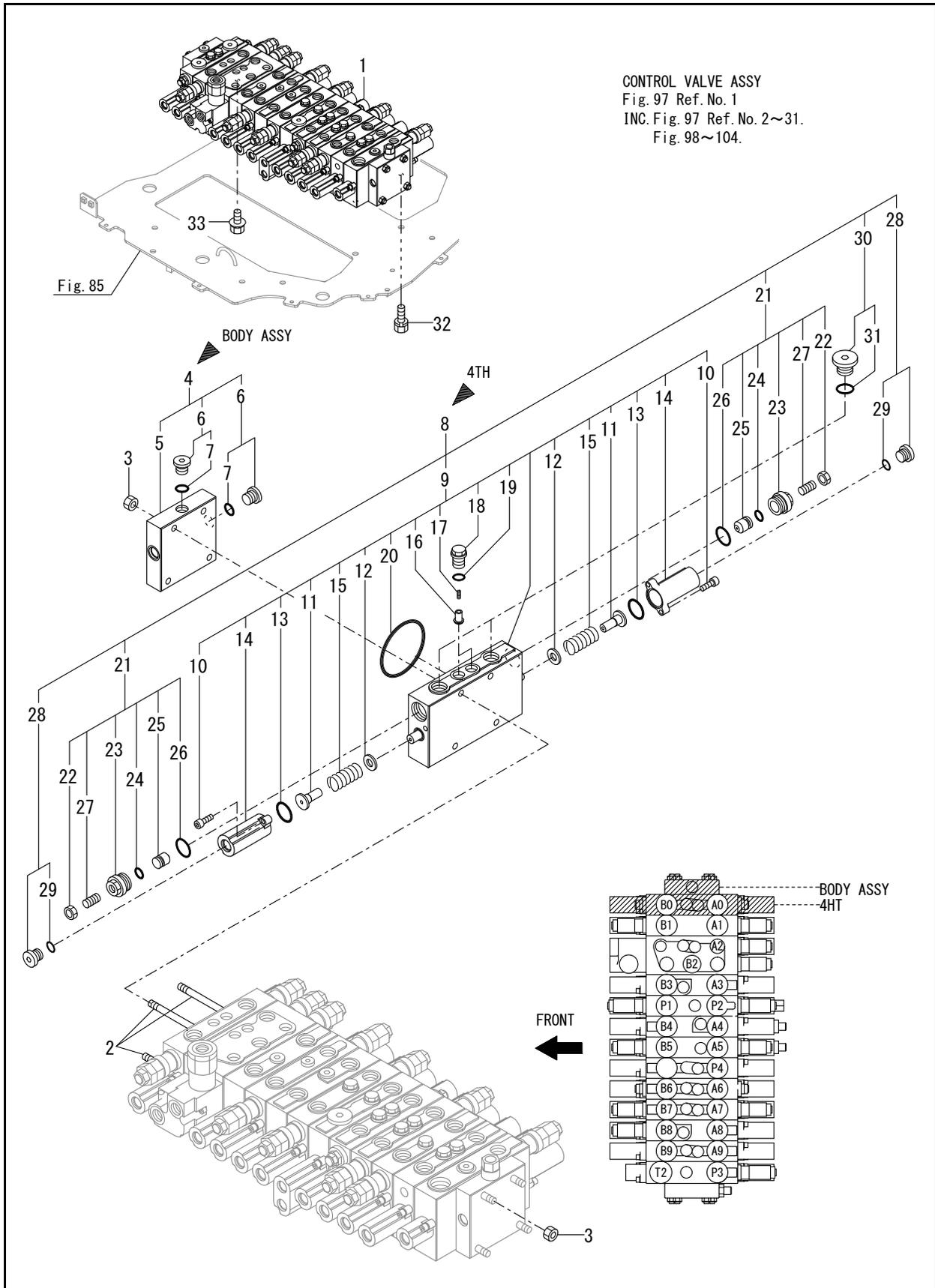


Z80 - COMPACT EXCAVATOR
FIG. 96 - SWIVEL JOINT

Ref.	No.	Part No.	Description	Qty.
	1	50280961	JOINT ASSY, SWIVEL	1
	2	50280831	SHAFT	1
	3	50280832	HUB, SWIVEL	1
	4	50280833	PLATE	1
	5	50280788	SPACER, SWIVEL	1
	6	50280789	THRUST WASHER	1
	7	50282404	CIRCLIP 70	1
	8	425-34728	PLUG PT 3/8	4
	9	50282519	BOLT M10X 40	4
	10	50280834	SEAL ASSY	1
	11	50280790	SEAL, SWIVEL	8
	12	50282465	O-RING 1A P-80.0	1
	13	50282466	O-RING 1A P-100.0	1
	14	50282483	O-RING 1A G-95.0	1
	15	50282526	BOLT M12X 40	4

Z80 - COMPACT EXCAVATOR

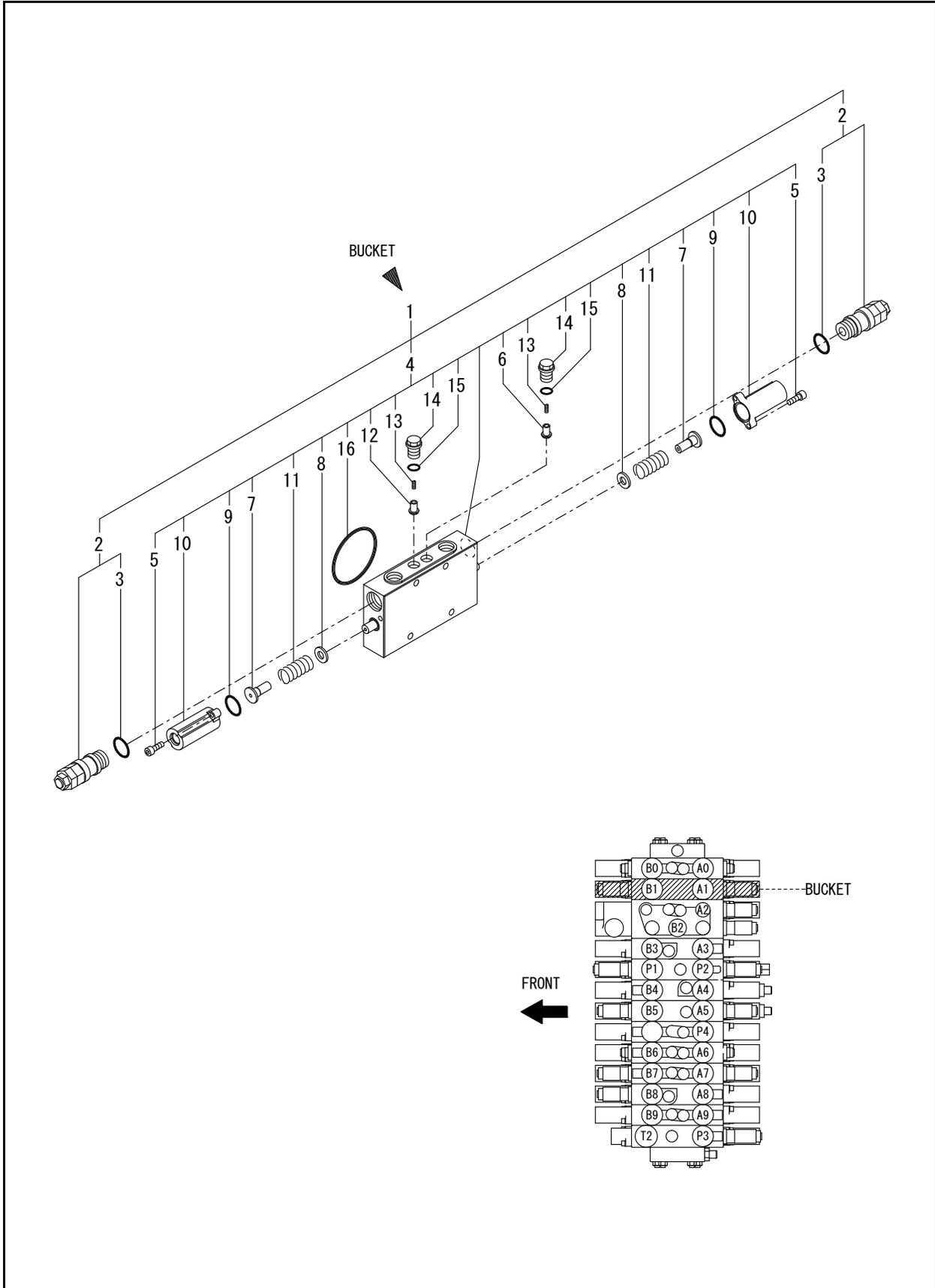
FIG. 97 - CONTROL VALVE (1/8)



Z80 - COMPACT EXCAVATOR
FIG. 97 - CONTROL VALVE (1/8)

Ref. No.	Part No.	Description	Qty.
1	50282277	VALVE ASSY, CONTROL	1
2	50281864	TIE ROD	4
3	50281004	NUT	8
4	50281907	BODY ASSY	1
5	50281204	BODY	1
6	50280963	PLUG ASSY	2
7	50282470	O-RING 1B P-11.0	2
8	50281911	SECTION ASSY, 4TH	1
9	50281912	SECTION, 4TH	1
10	50280839	BOLT, SOCKET HEAD	4
11	50281202	SEAT, SPRING	2
12	50280908	SEAT, SPRING	2
13	50280840	O-RING	2
14	50281080	CAP	2
15	50281081	SPRING	2
16	50281082	POPPET	2
17	50281083	SPRING	2
18	50281084	PLUG	2
19	50281085	PACKING	2
20	186610	O-RING 1A G70.0 NBR	1
21	50281079	SHUTOFF VALVE	2
22	50281075	NUT, SHOE	2
23	50281076	PLUG	2
24	50281077	O-RING	2
25	50281078	POPPET, VALVE	2
26	50280781	O-RING	2
27	50281102	SCREW SET	2
28	50280963	PLUG ASSY	2
29	50282470	O-RING 1B P-11.0	2
30	50280965	PLUG	2
31	50282474	O-RING 1B P-18.0	2
32	50282514	BOLT M10X 16	2
33	50282558	BOLT M10X 12 PLATED	1

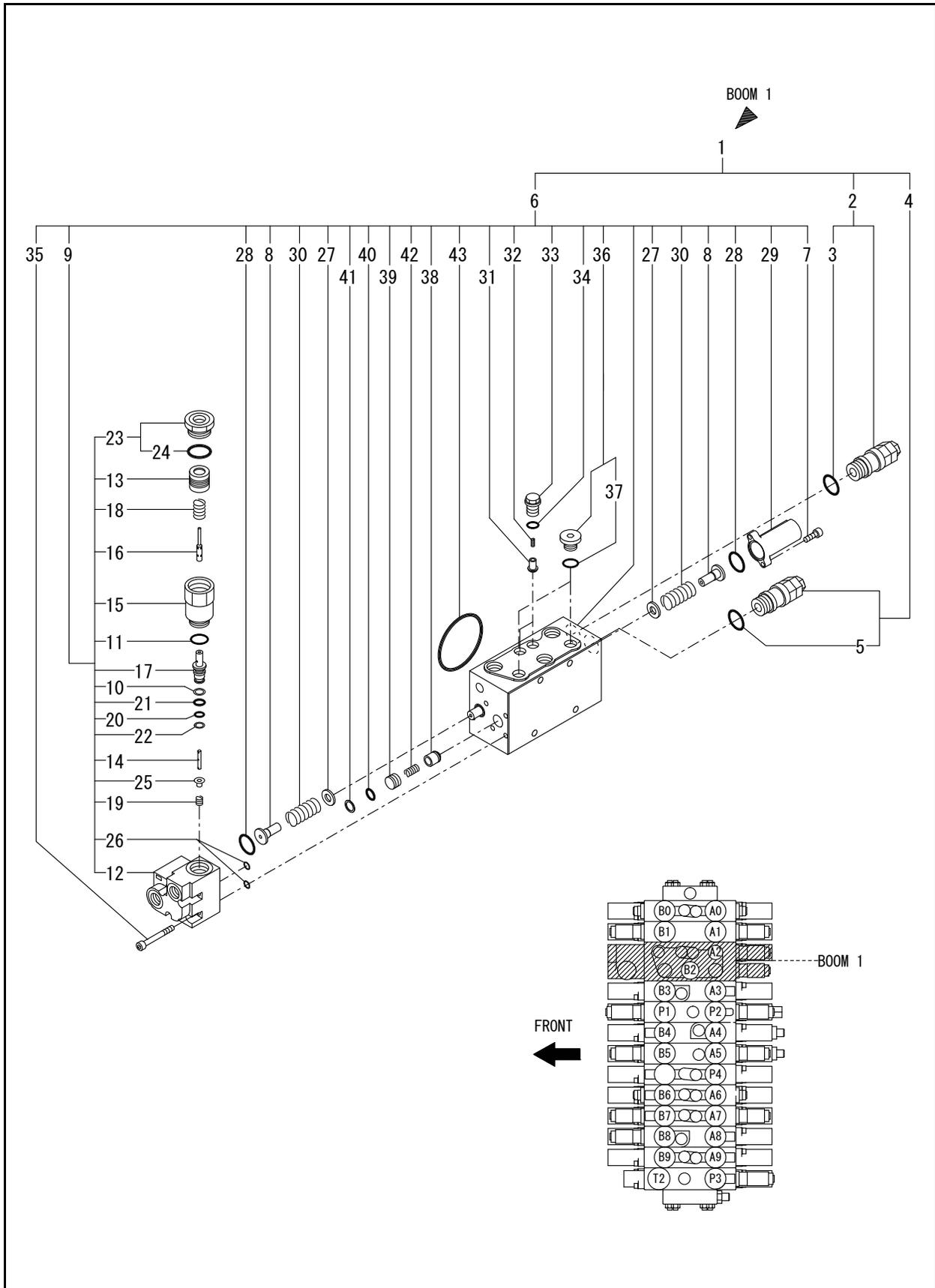
Z80 - COMPACT EXCAVATOR
FIG. 98 - CONTROL VALVE (2/8)



Z80 - COMPACT EXCAVATOR
FIG. 98 - CONTROL VALVE (2/8)

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

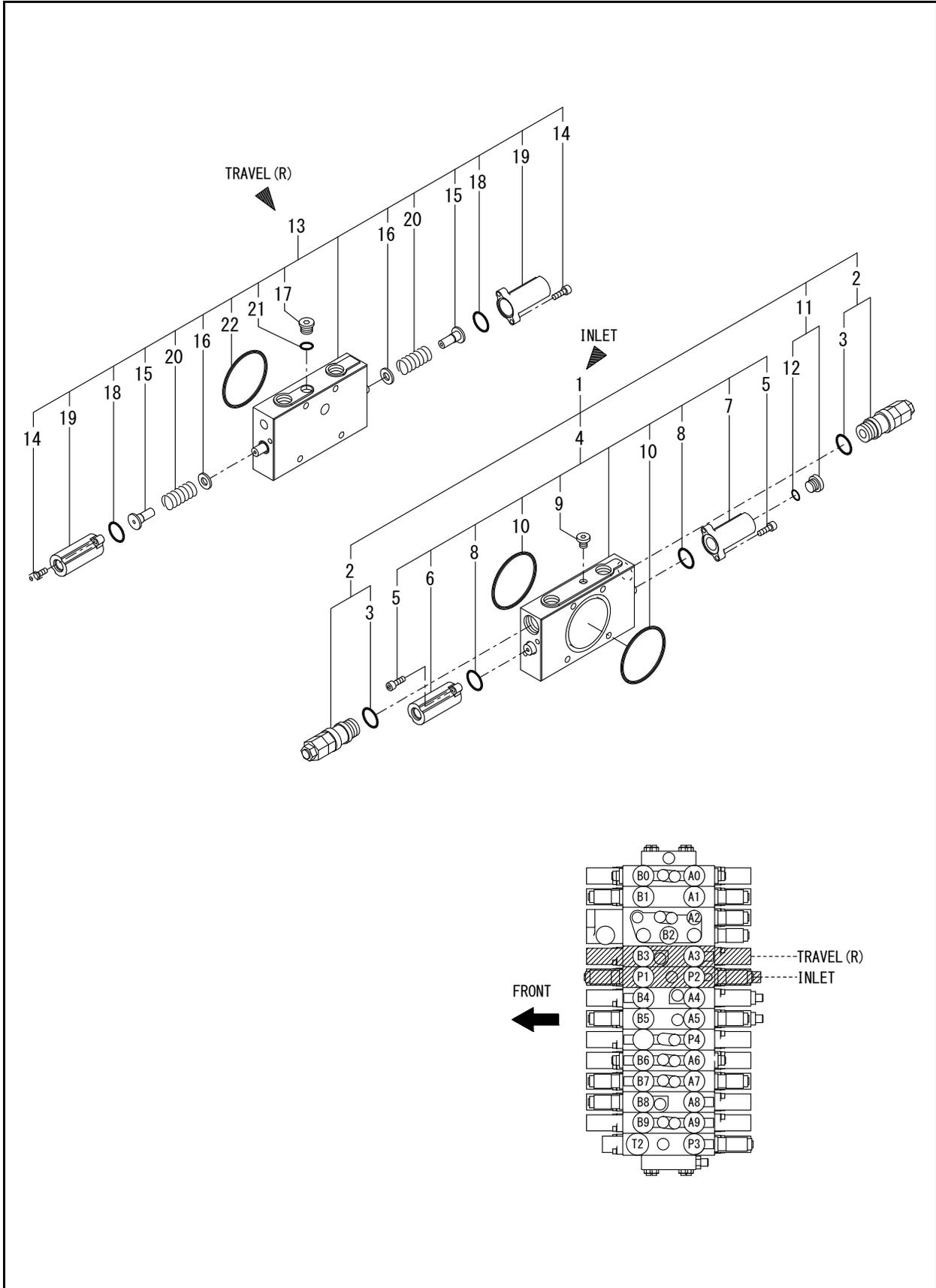
Z80 - COMPACT EXCAVATOR
FIG. 99 - CONTROL VALVE (3/8)



Z80 - COMPACT EXCAVATOR
FIG. 99 - CONTROL VALVE (3/8)

Ref.	No.	Part No.	Description	Qty.
	1	50282283	SECTION ASSY, BOOM 1	1
	2	50282281	VALVE RELIEF 29.5/50	1
	3	50280781	O-RING	1
	4	50282284	VALVE RELIEF 29.5/50	1
	5	50280781	O-RING	1
	6	50282285	SECTION, BOOM 1	1
	7	50280839	BOLT, SOCKET HEAD	2
	8	50281202	SEAT, SPRING	2
	9	50281221	ANTI-DRIFT VALVE	1
	10	50281343	RING	1
	11	50280781	O-RING	1
	12	50281222	BODY	1
	13	50281223	PISTON	1
	14	50281092	POPPET	1
	15	50281093	PLUG	1
	16	50281094	SPOOL	1
	17	50281095	SLEEVE	1
	18	50281096	SPRING	1
	19	50281097	SPRING	1
	20	50281098	PACKING	1
	21	50281099	PACKING	1
	22	50281100	BACK UP RING	1
	23	50280967	PLUG	1
	24	50281001	O-RING	1
	25	50281101	SEAT, SPRING	1
	26	50282467	O-RING 1B P-7.0	2
	27	50280908	SEAT, SPRING	2
	28	50280840	O-RING	2
	29	50281080	CAP	1
	30	50281081	SPRING	2
	31	50281082	POPPET	2
	32	50281083	SPRING	2
	33	50281084	PLUG	2
	34	50281085	PACKING	2
	35	50281087	BOLT, SOCKET HEAD	5
	36	50280964	PLUG	2
	37	50282471	O-RING 1B P-14.0	2
	38	50281088	POPPET	1
	39	50281089	SPACER	1
	40	50281090	O-RING	1
	41	50281091	RING, BACK-UP	1
	42	50280966	SPRING	1
	43	186610	O-RING 1A G70.0 NBR	1

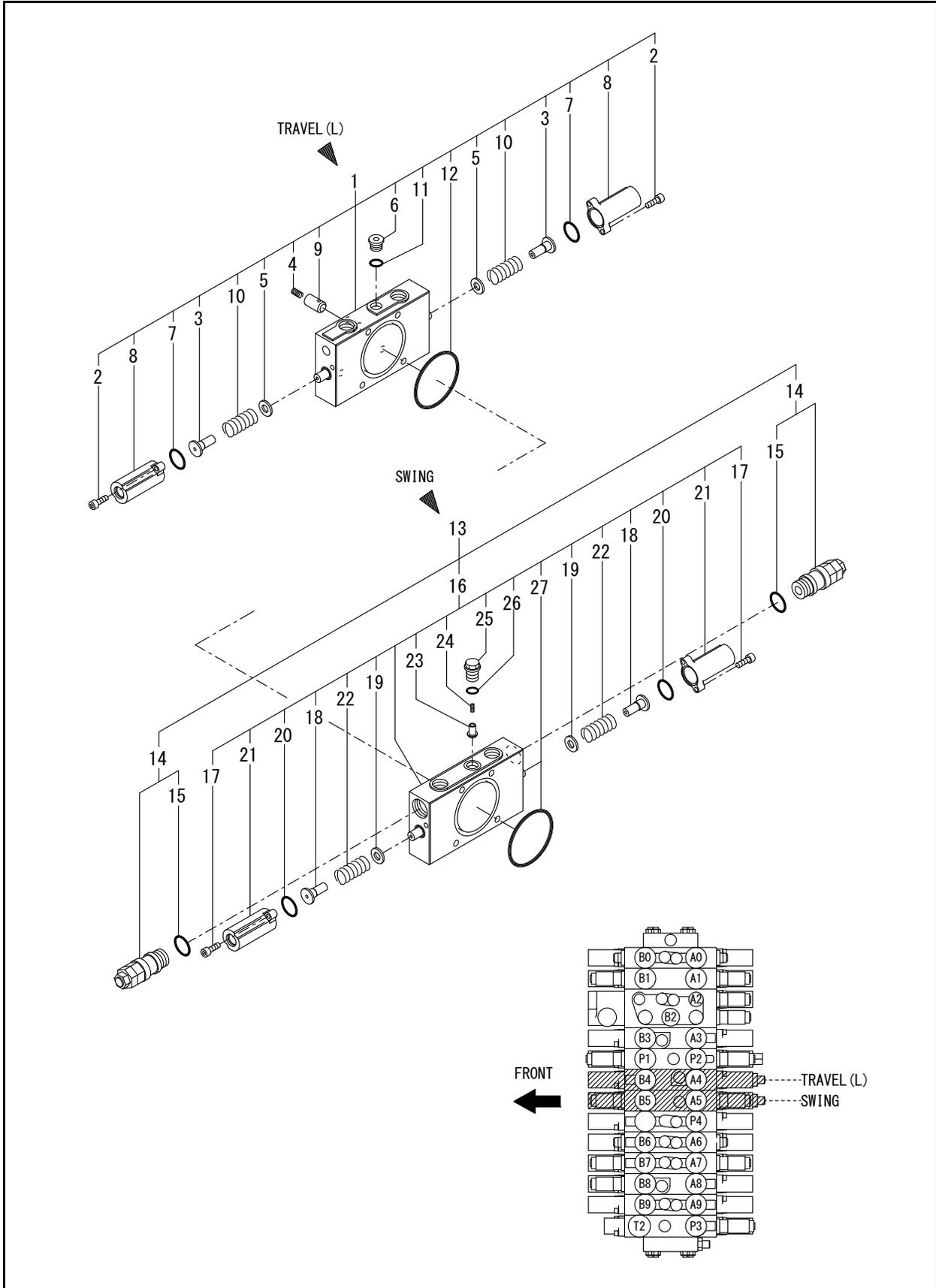
Z80 - COMPACT EXCAVATOR
FIG. 100 - CONTROL VALVE (4/8)



Z80 - COMPACT EXCAVATOR
FIG. 100 - CONTROL VALVE (4/8)

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

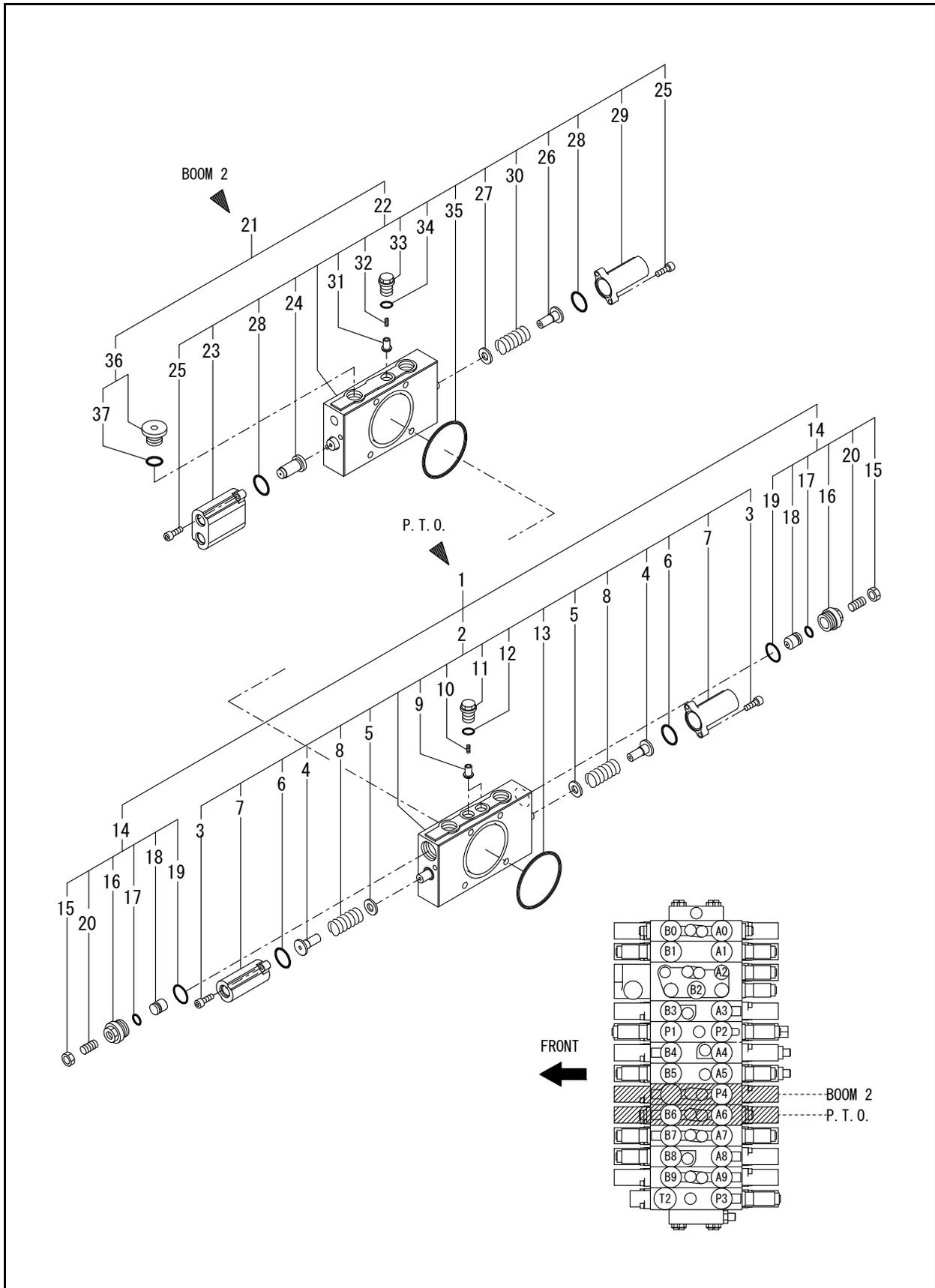
Z80 - COMPACT EXCAVATOR
FIG. 101 - CONTROL VALVE (5/8)



**Z80 - COMPACT EXCAVATOR
FIG. 101 - CONTROL VALVE (5/8)**

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

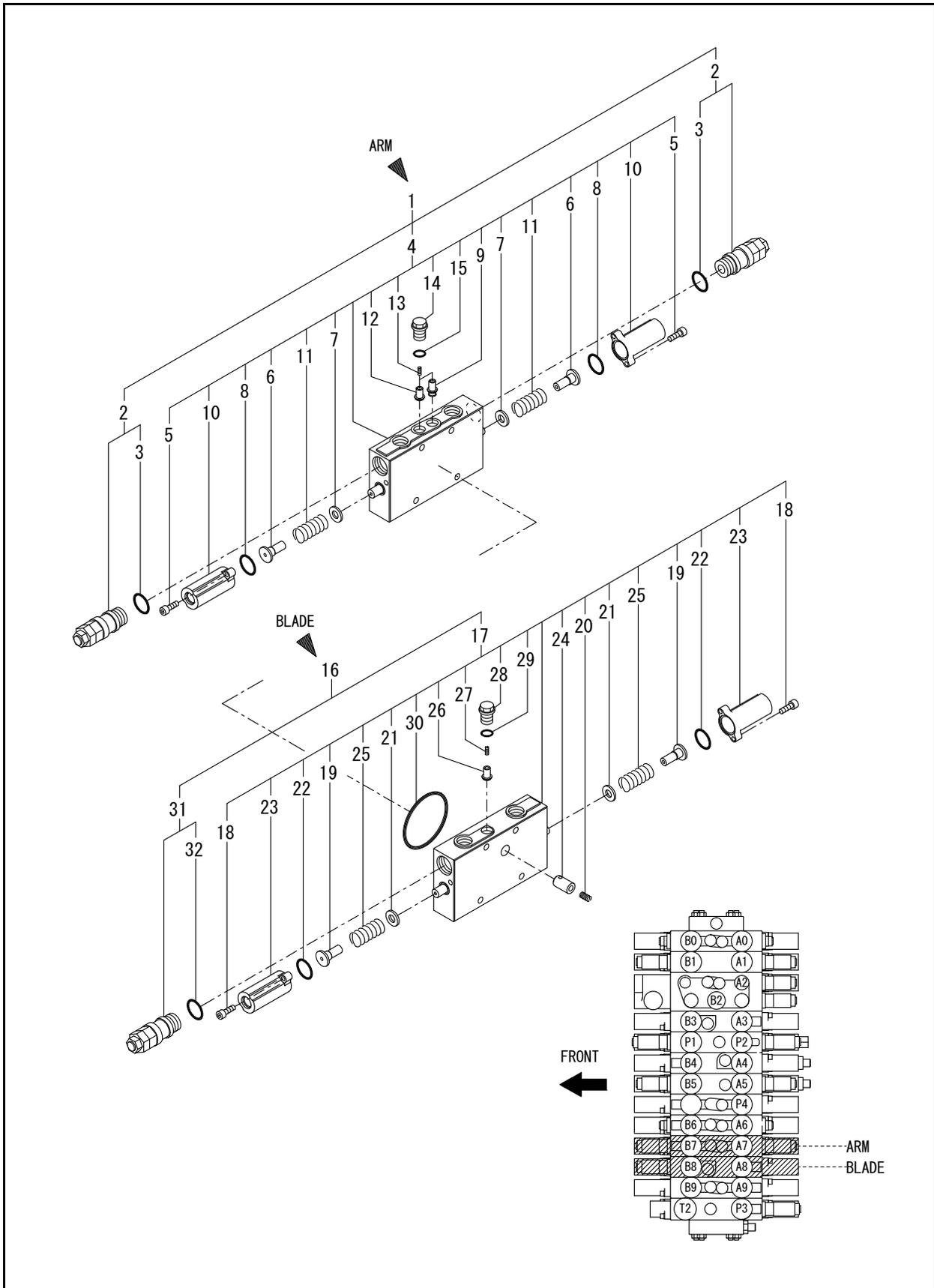
Z80 - COMPACT EXCAVATOR
FIG. 102 - CONTROL VALVE (6/8)



**Z80 - COMPACT EXCAVATOR
FIG. 102 - CONTROL VALVE (6/8)**

Ref. No.	Part No.	Description	Qty.
1	50281858	PTO SECTION ASSY	1
2	50281859	PTO SECTION	1
3	50280839	BOLT, SOCKET HEAD	4
4	50281202	SEAT, SPRING	2
5	50280908	SEAT, SPRING	2
6	50280840	O-RING	2
7	50281080	CAP	2
8	50281081	SPRING	2
9	50281082	POPPET	2
10	50281083	SPRING	2
11	50281084	PLUG	2
12	50281085	PACKING	2
13	186610	O-RING 1A G70.0 NBR	1
14	50281079	SHUTOFF VALVE	2
15	50281075	NUT, SHOE	2
16	50281076	PLUG	2
17	50281077	O-RING	2
18	50281078	POPPET, VALVE	2
19	50280781	O-RING	2
20	50281102	SCREW SET	2
21	50281915	SECTION ASSY, BOOM	1
22	50281916	SECTION, BOOM 2	1
23	50281856	CAP	1
24	50281857	PISTON	1
25	50280839	BOLT, SOCKET HEAD	4
26	50281202	SEAT, SPRING	1
27	50280908	SEAT, SPRING	1
28	50280840	O-RING	2
29	50281080	CAP	1
30	50281081	SPRING	1
31	50281082	POPPET	1
32	50281083	SPRING	1
33	50281084	PLUG	1
34	50281085	PACKING	1
35	186610	O-RING 1A G70.0 NBR	1
36	50280965	PLUG	1
37	50282474	O-RING 1B P-18.0	1

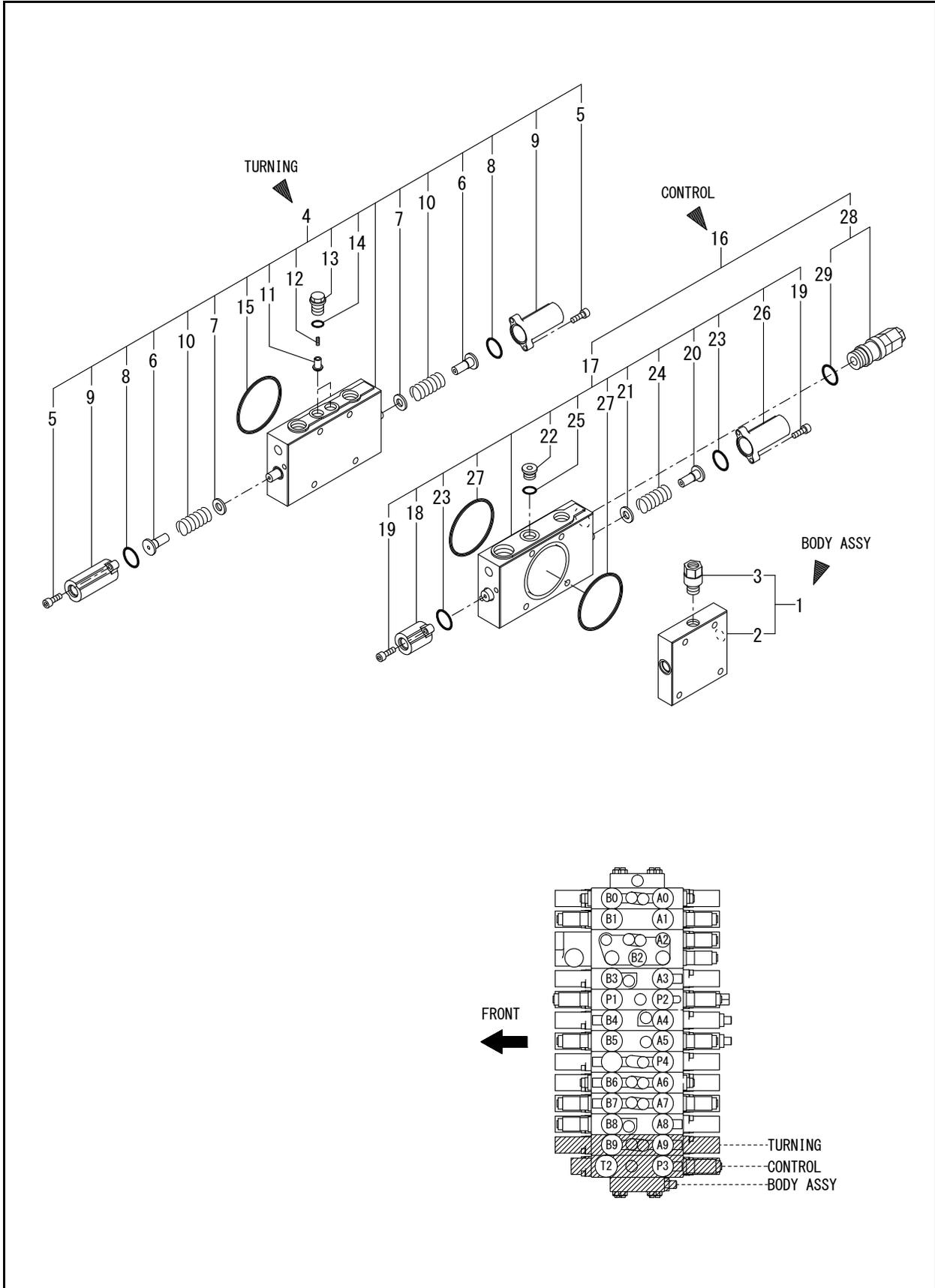
Z80 - COMPACT EXCAVATOR
FIG. 103 - CONTROL VALVE (7/8)



**Z80 - COMPACT EXCAVATOR
FIG. 103 - CONTROL VALVE (7/8)**

Ref. No.	Part No.	Description	Qty.
1	50282289	VALVE ASSY, SECTION	1
2	50282281	VALVE RELIEF 29.5/50	2
3	50280781	O-RING	2
4	50282290	VALVE ASSY,SECTION	1
5	50280839	BOLT, SOCKET HEAD	4
6	50281202	SEAT,SPRING	2
7	50280908	SEAT, SPRING	2
8	50280840	O-RING	2
9	50286590	POPPET VALVE	1
10	50281080	CAP	2
11	50281081	SPRING	2
12	50281082	POPPET	1
13	50281083	SPRING	2
14	50281084	PLUG	2
15	50281085	PACKING	2
16	50282292	SECTION ASSY, BLADE	1
17	50281860	SECTION, BLADE	1
18	50280839	BOLT, SOCKET HEAD	4
19	50281202	SEAT,SPRING	2
20	50280780	SPRING	1
21	50280908	SEAT, SPRING	2
22	50280840	O-RING	2
23	50281080	CAP	2
24	50280962	POPPET, VALVE	1
25	50281081	SPRING	2
26	50281082	POPPET	1
27	50281083	SPRING	1
28	50281084	PLUG	1
29	50281085	PACKING	1
30	186610	O-RING 1A G70.0 NBR	1
31	50282293	VALVE RELIEF 15/50L	1
32	50280781	O-RING	1

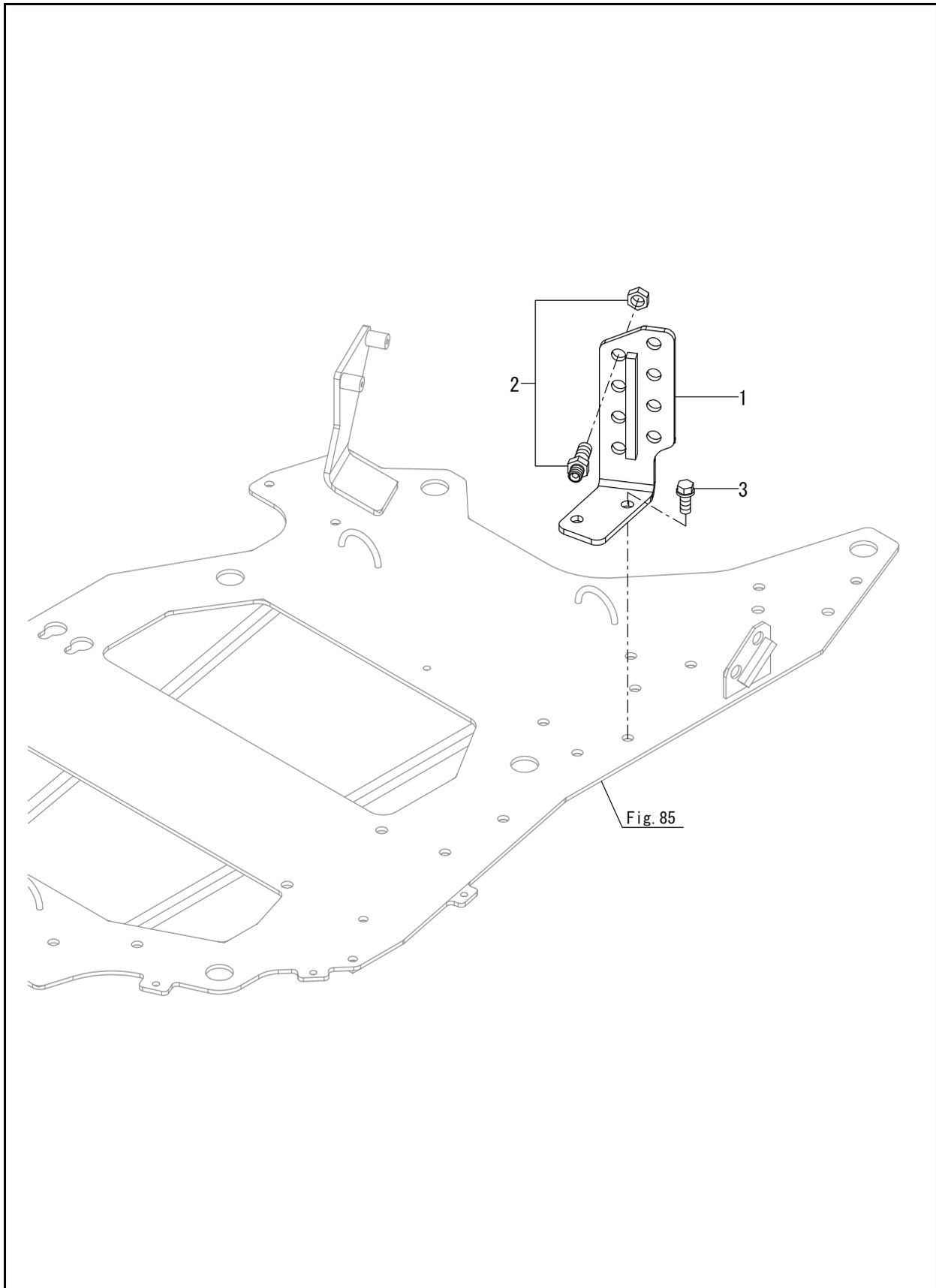
Z80 - COMPACT EXCAVATOR
FIG. 104 - CONTROL VALVE (8/8)



Z80 - COMPACT EXCAVATOR
FIG. 104 - CONTROL VALVE (8/8)

Ref.	No.	Part No.	Description	Qty.
	1	50281863	BODY ASSY	1
	2	50281204	BODY	1
	3	50281205	PLUG ASSY	1
	4	50282291	SECTION,SWING	1
	5	50280839	BOLT, SOCKET HEAD	4
	6	50281202	SEAT,SPRING	2
	7	50280908	SEAT, SPRING	2
	8	50280840	O-RING	2
	9	50281080	CAP	2
	10	50281081	SPRING	2
	11	50281082	POPPET	2
	12	50281083	SPRING	2
	13	50281084	PLUG	2
	14	50281085	PACKING	2
	15	186610	O-RING 1A G70.0 NBR	1
	16	50282294	SECTION ASSY,CONTROL	1
	17	50281861	SECTION CONTROL	1
	18	50281862	CAP ASSY	1
	19	50280839	BOLT, SOCKET HEAD	4
	20	50281202	SEAT,SPRING	1
	21	50280908	SEAT, SPRING	1
	22	50281913	PLUG	1
	23	50280840	O-RING	2
	24	50281081	SPRING	1
	25	50281085	PACKING	1
	26	50281086	CAP	1
	27	186610	O-RING 1A G70.0 NBR	2
	28	50282295	VALVE,RELIEF 24.2/50	1
	29	50280781	O-RING	1

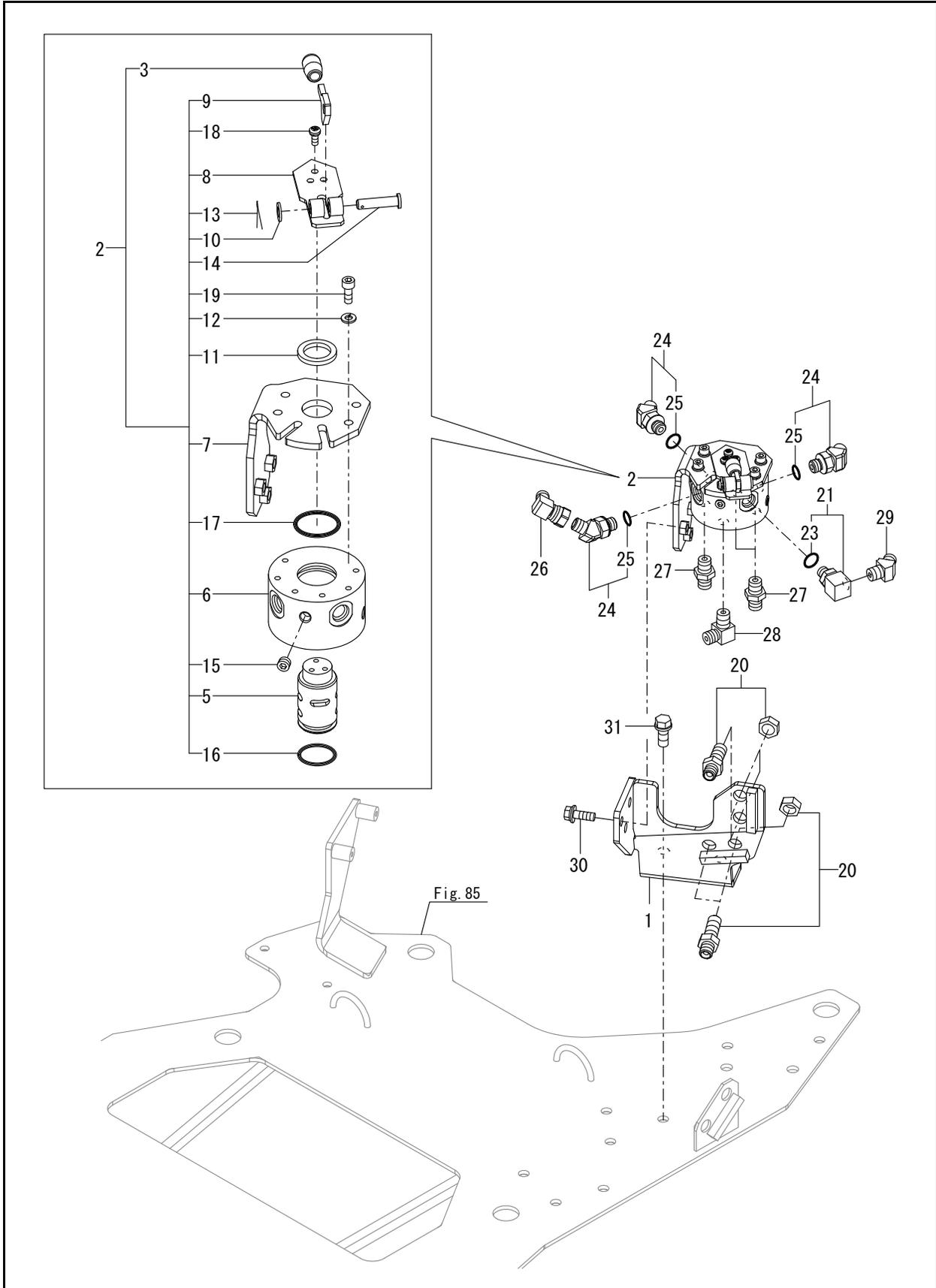
Z80 - COMPACT EXCAVATOR
FIG. 105 - STANDARD PIPING BRACKET



**Z80 - COMPACT EXCAVATOR
FIG. 105 - STANDARD PIPING BRACKET**

Ref.			
No.	Part No.	Description	Qty.
1	50286501	BRACKET	1
2	50280841	JOINT	8
3	50282516	BOLT W/WASHER M10X25	2

Z80 - COMPACT EXCAVATOR
FIG. 106 - 2-WAY VALVE



Z80 - COMPACT EXCAVATOR
FIG. 106 - 2-WAY VALVE

Ref.	No.	Part No.	Description	Qty.
	1	50281878	BRACKET ASSY,2WAY	1
	2	50281426	VALVE ASSY,2WAY	1
	3	50280849	KNOB 6.5X18X35	1
	5	50281040	SHAFT	1
	6	50281041	BLOCK,VALVE	1
	7	50281042	STAY ASSY	1
	8	50281427	LEVER	1
	9	50281428	PLATE,LOCK	1
	10	138515	WASHER 8	1
	11	50282384	WASHER 24,POLISHED	1
	12	425-34891	SPRING WASHER 6	4
	13	50282417	COTTER PIN 2.0X16	1
	14	50282421	PIN 8X 30	1
	15	50282447	PLUG PT1/8,SCREW	4
	16	50282460	O-RING 1A P-25.0	1
	17	425-34745	O-RING 1A P-32.0	1
	18	425-36271	SCREW M 5 X 12	3
	19	50282581	BOLT M 6X 16	4
	20	50280841	JOINT	4
	21	50280806	ELBOW PF1/4	1
	23	50282470	O-RING 1B P-11.0	1
	24	50280905	CONNECTOR PF1/4-45	3
	25	50282607	PACKING, 11.0	3
	26	50281352	CONNECTOR 1/4X1/4	1
	27	50282438	JOINT RGI1/4	3
	28	50282441	JOINT 90RGI1/4	1
	29	50282443	JOINT 45RGI1/4	1
	30	50282508	BOLT M 8X 25	3
	31	50282516	BOLT W/WASHER M10X25	2

Z80 - COMPACT EXCAVATOR
FIG. 107 - BLADE VALVE

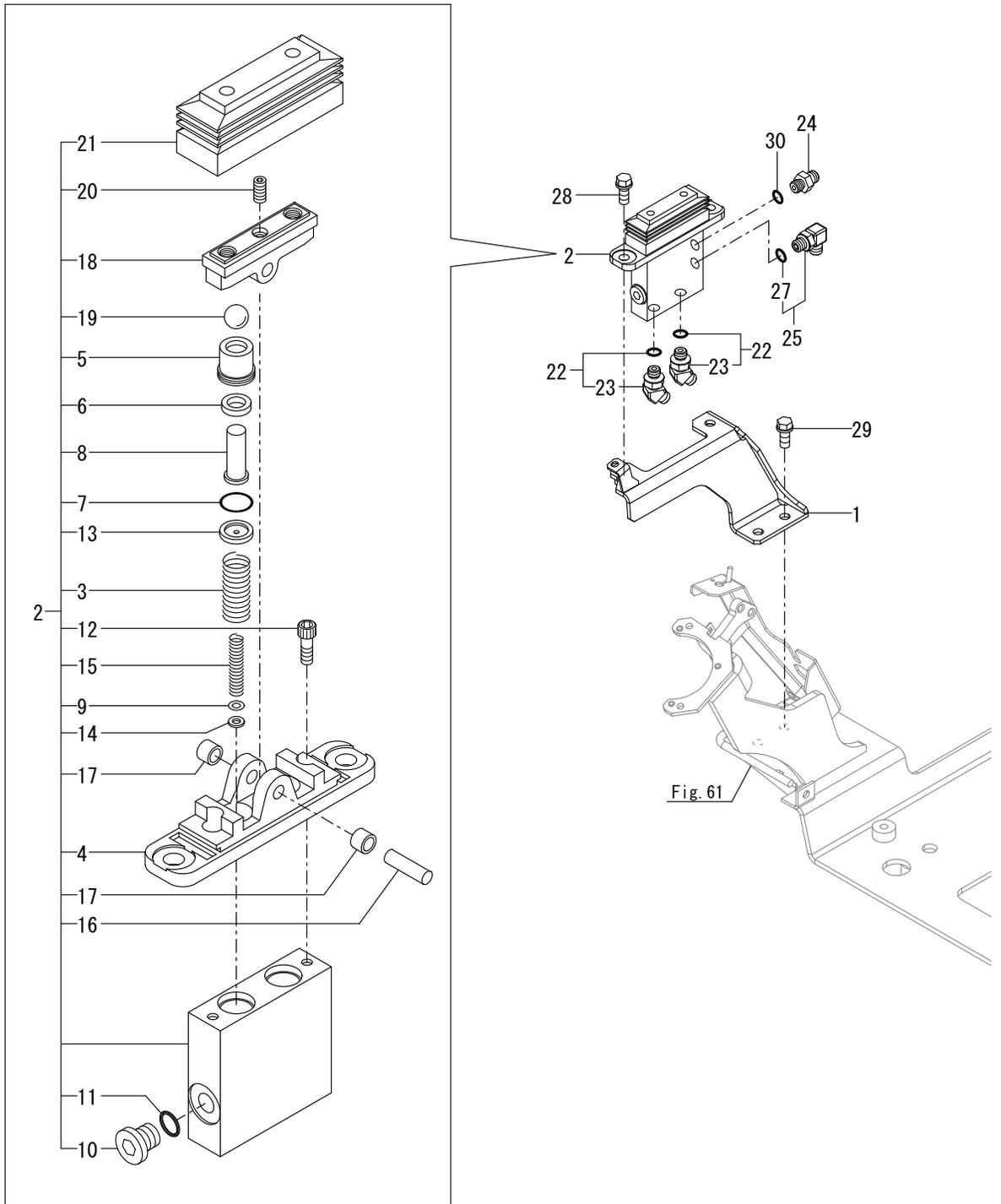


Fig. 61

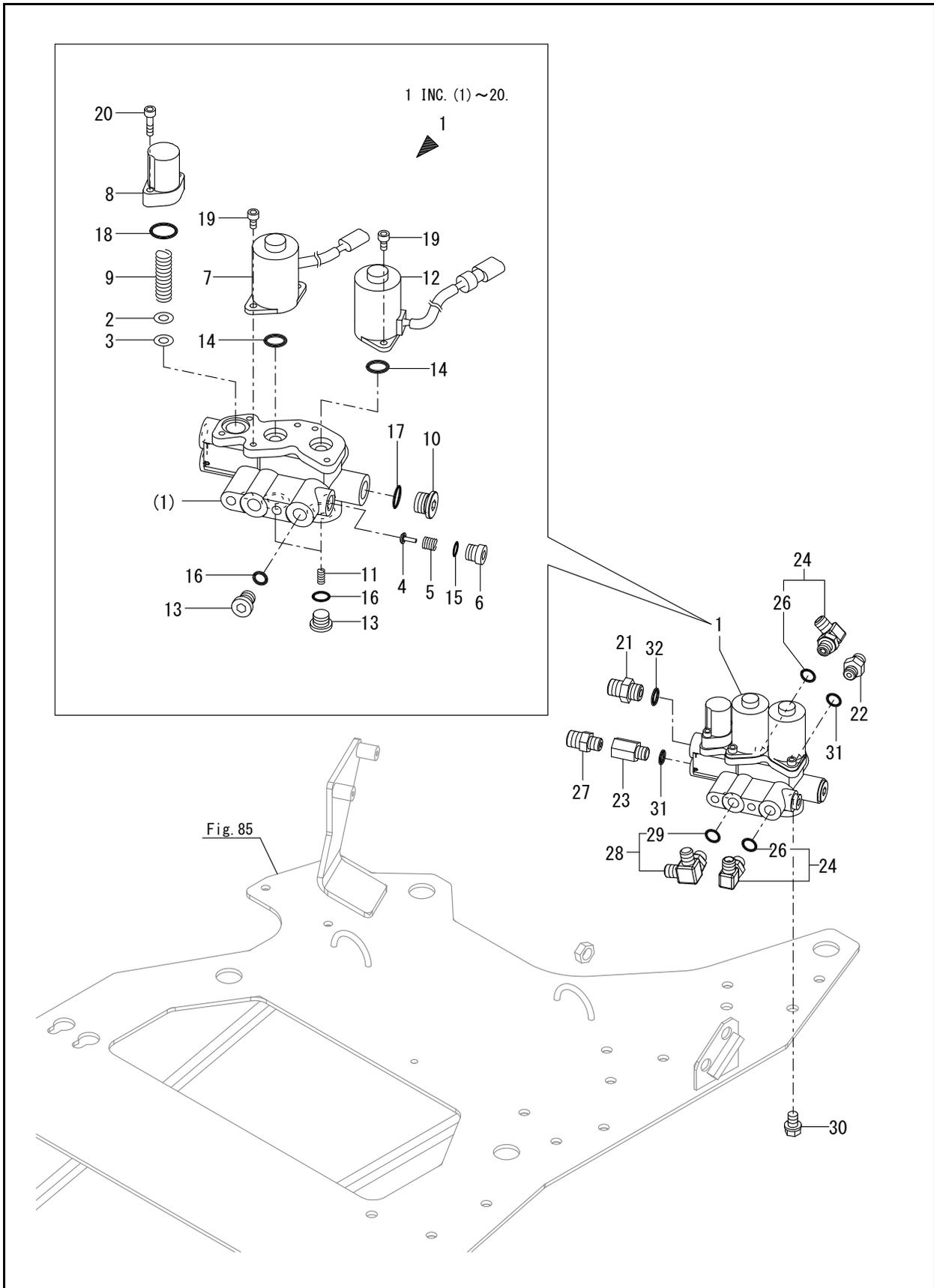
**Z80 - COMPACT EXCAVATOR
FIG. 107 - BLADE VALVE**

Ref. No.	Part No.	Description	Qty.
1	50281917	STAY ASSY,BLD VALVE	1
2	50281933	VALVE ASSY	1
3	50281934	SPRING	2
4	50281469	COVER	1
5	50281470	PLUG	2
6	50281471	PACKING	2
7	50281472	O-RING	2
8	50281473	ROD,PUSH	2
9	50281474	SHIM	2
10	50281475	PLUG	1
11	50281476	O-RING	1
12	50281477	SCREW,HEX.S.H.C	2
13	50281478	SEAT,SPRING	2
14	50281479	WASHER	2
15	50281480	SPRING	2
16	50281481	CAM SHAFT	1
17	50281482	BUSHING	2
18	50281483	CAM	1
19	50281484	BALL,STEEL	2
20	50281485	SET SCREW	1
21	50281486	BELLOWS	1
22	50280905	CONNECTOR PF1/4-45	2
23	50282607	PACKING, 11.0	2
24	50280792	JOINT PF1/4	1
25	50280813	CONNECTOR ASSY, 02FF	1
27	50282607	PACKING, 11.0	1
28	50282516	BOLT W/WASHER M10X25	2
29	50282516	BOLT W/WASHER M10X25	2
30	50282607	PACKING, 11.0	1

**Z80 - COMPACT EXCAVATOR
FIG. 108 - SOLENOID VALVE (P.T.O.)**

Ref.	No.	Part No.	Description	Qty.
	1	50281356	VALVE ASSY,G	1
	2	50281357	VALVE ASSY	2
	3	50281358	O-RING	2
	4	50281359	O-RING	2
	5	50281360	O-RING	2
	6	50280822	PLUG, 3/8	1
	7	50282471	O-RING 1B P-14.0	1
	8	50280792	JOINT PF1/4	1
	9	50280792	JOINT PF1/4	1
	10	50281487	ELBOW NIPPLE 90G3/8	1
	11	50282471	O-RING 1B P-14.0	1
	12	50280919	CONNECTOR 1/4-1/4	2
	13	50282515	BOLT W/WASHER M10X20	2
	14	50282607	PACKING, 11.0	3
	15	50282607	PACKING, 11.0	1

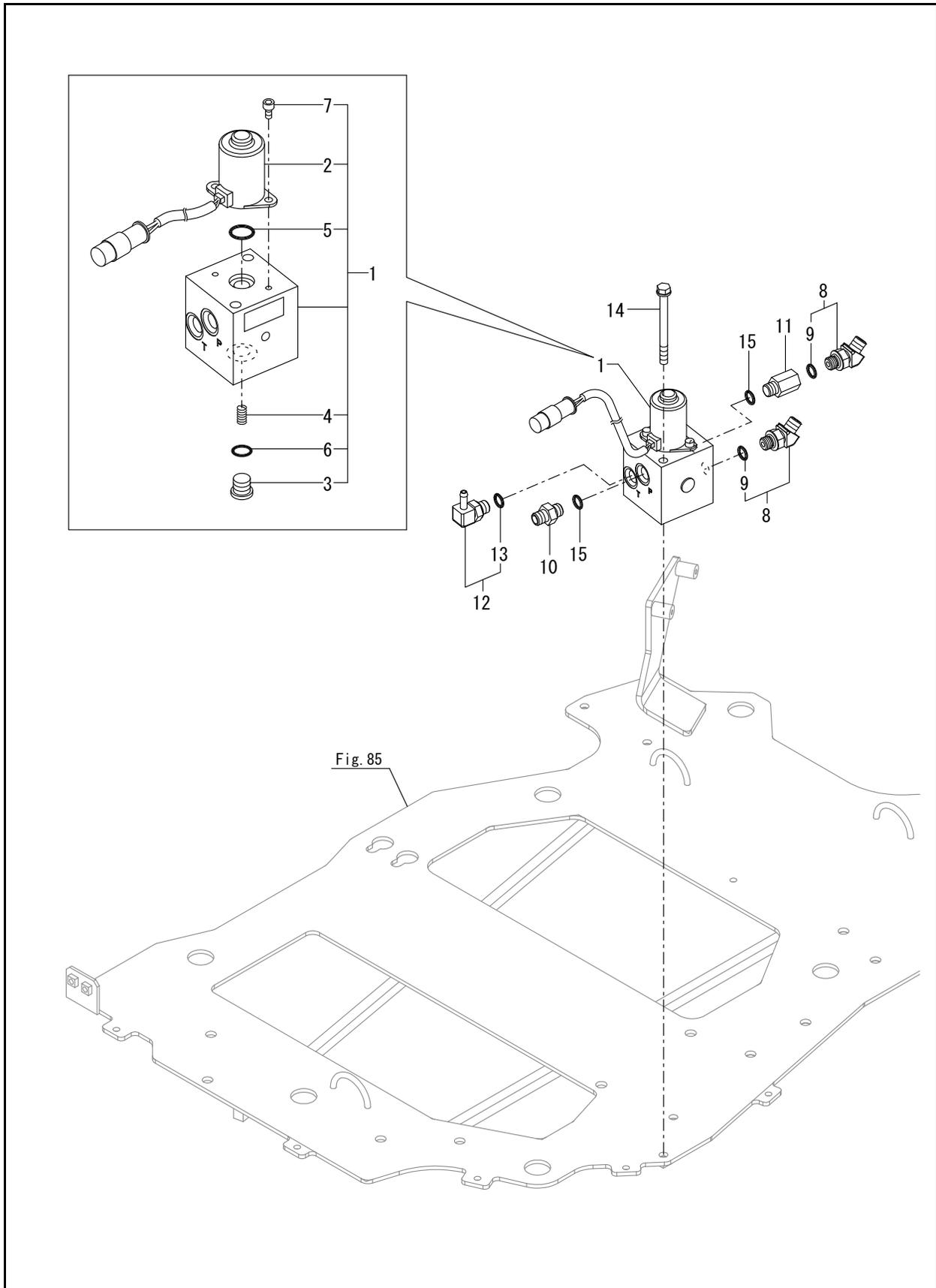
Z80 - COMPACT EXCAVATOR
FIG. 109 - SOLENOID VALVE (PILOT)



**Z80 - COMPACT EXCAVATOR
FIG. 109 - SOLENOID VALVE (PILOT)**

Ref. No.	Part No.	Description	Qty.
1	50281918	VALVE ASSY,SOL	1
2	50281919	SIM	1
3	50281920	SIM	1
4	50281921	PLUNGER	1
5	50281922	SPRING	1
6	50281923	PLUG	1
7	50281924	SOLENOID	1
8	50281925	COVER	1
9	50281926	SPRING,COMPRES	1
10	50281927	PLUG	1
11	50281465	SPRING,COMPRESSION	2
12	50281466	SOLENOID	1
13	50281467	PLUG,G1/4	3
14	425-34744	O-RING 1A P-16.0	2
15	50282469	O-RING 1B P-10.0	1
16	50282470	O-RING 1B P-11.0	3
17	50282471	O-RING 1B P-14.0	1
18	50282475	O-RING 1B P-20.0	1
19	425-35914	BOLT 5M X 12	4
20	50282580	BOLT, M5X20	2
21	50281350	JOINT	1
22	50280792	JOINT PF1/4	1
23	50281007	CONNECTOR	1
24	50280813	CONNECTOR ASSY, 02FF	2
26	50282607	PACKING, 11.0	2
27	50281344	CONNECTOR PF1/4	1
28	50281226	ADJUSTABLE ELBOW 1/4	1
29	50282470	O-RING 1B P-11.0	1
30	50282514	BOLT M10X 16	2
31	50282607	PACKING, 11.0	2
32	50282608	O RING P 14.0 HNBR	1

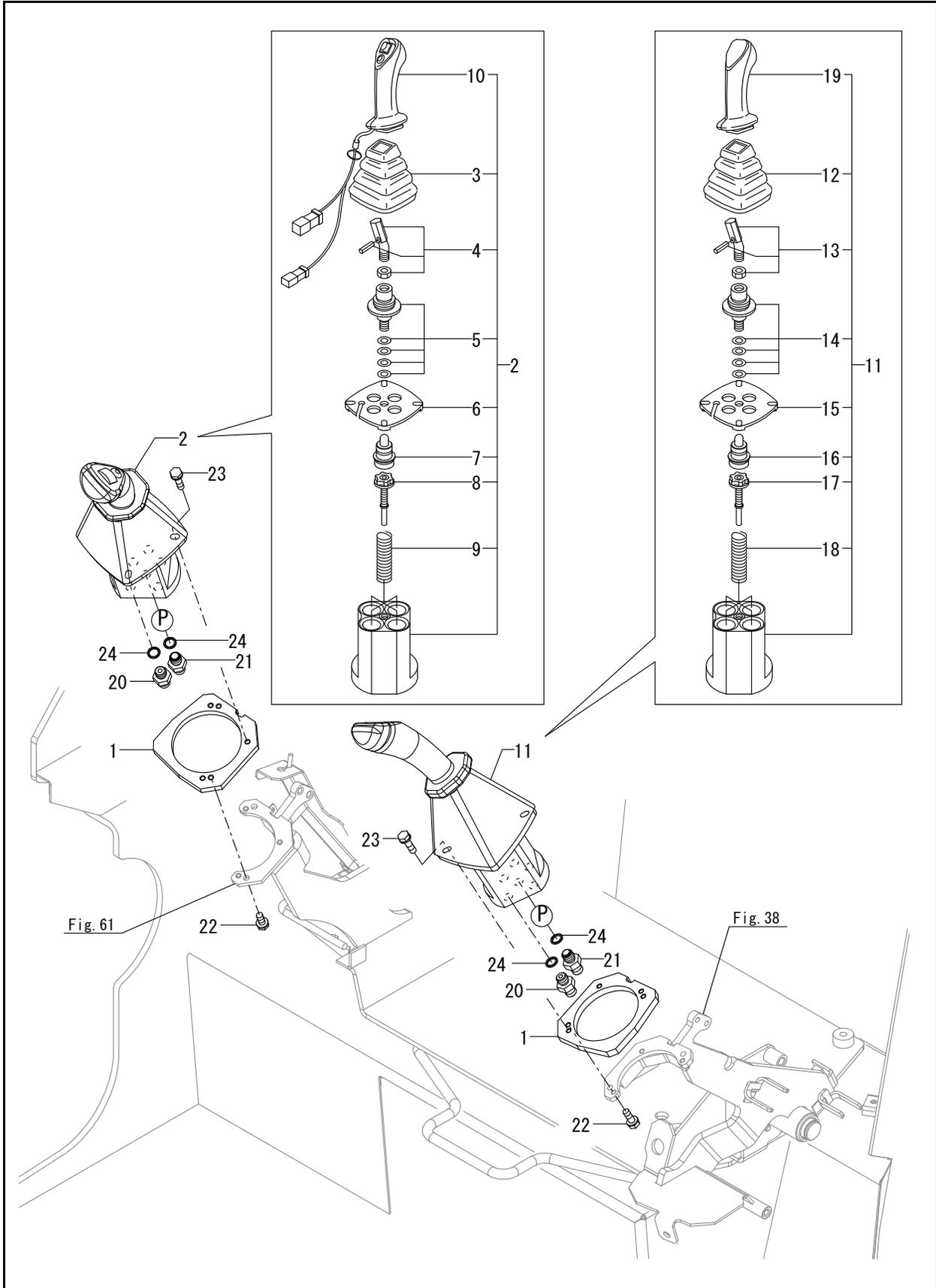
Z80 - COMPACT EXCAVATOR
FIG. 110 - SOLENOID VALVE (QUICK COUPLER)



Z80 - COMPACT EXCAVATOR
FIG. 110 - SOLENOID VALVE (QUICK COUPLER)

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

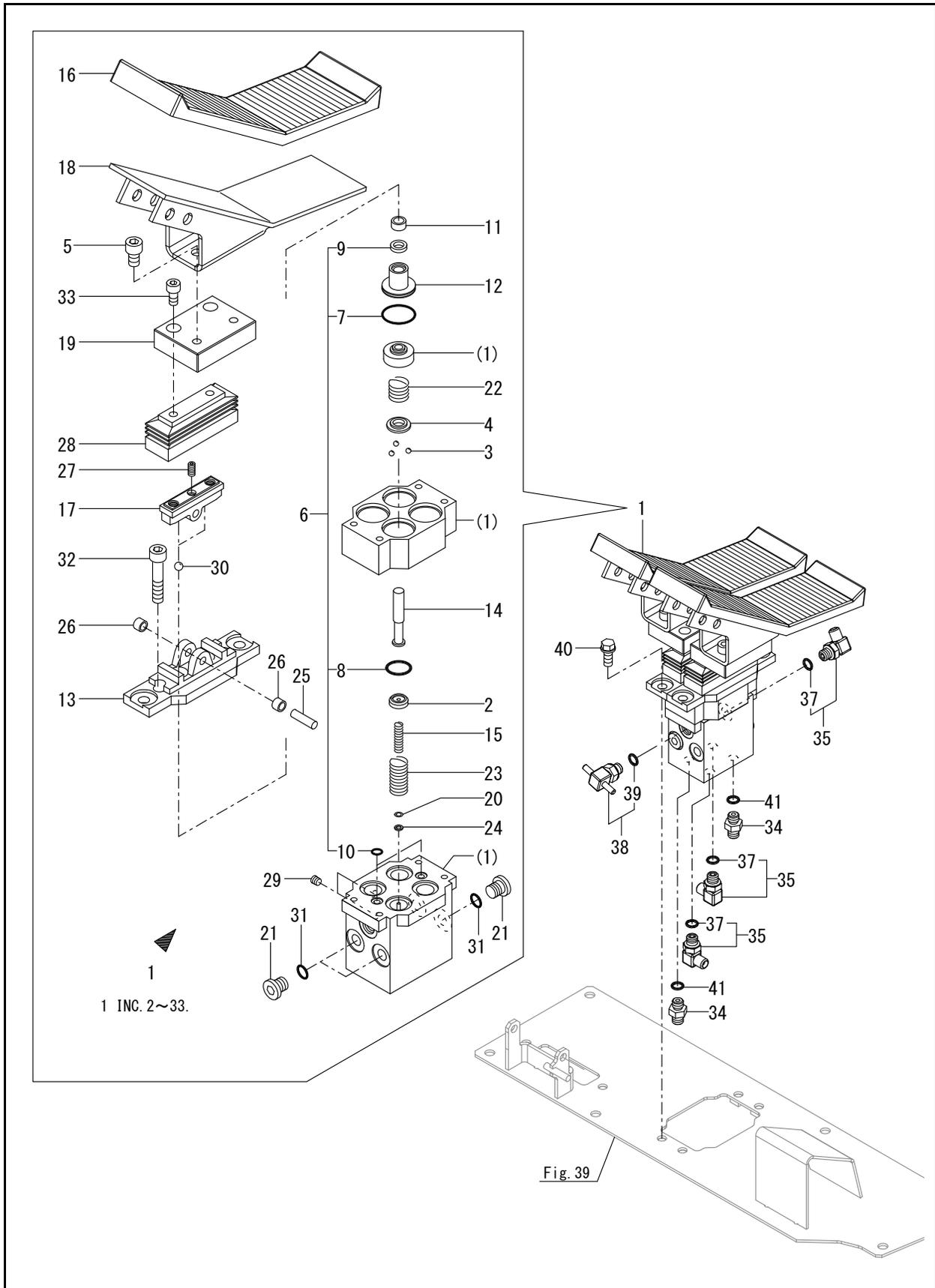
Z80 - COMPACT EXCAVATOR
FIG. 111 - REMOTE CONTROL VALVE (OPERATION)



Z80 - COMPACT EXCAVATOR
FIG. 111 - REMOTE CONTROL VALVE (OPERATION)

Ref.	No.	Part No.	Description	Qty.
	1	50282081	SPACER,VALVE	2
	2	50281940	VALVE ASSY,R	1
	3	50281044	BELLOWS	1
	4	50281045	COMMAND KIT	1
	5	50281150	CARDAN KIT	1
	6	50281151	RETAINING PLATE	1
	7	50281152	PLUNGER KIT	1
	8	50281153	REGULATION KIT	4
	9	50281154	SPRING KIT	1
	10	50281941	HANDLE ASSY	1
	11	50281942	VALVE ASSY,L	1
	12	50281044	BELLOWS	1
	13	50281045	COMMAND KIT	1
	14	50281150	CARDAN KIT	1
	15	50281151	RETAINING PLATE	1
	16	50281152	PLUNGER KIT	1
	17	50281153	REGULATION KIT	4
	18	50281154	SPRING KIT	1
	19	50281943	HANDLE	1
	20	50280792	JOINT PF1/4	10
	21	50281106	CONNECTOR PF1/4	2
	22	50282531	BOLT M 6X 16	4
	23	50282531	BOLT M 6X 16	6
	24	50282607	PACKING, 11.0	12

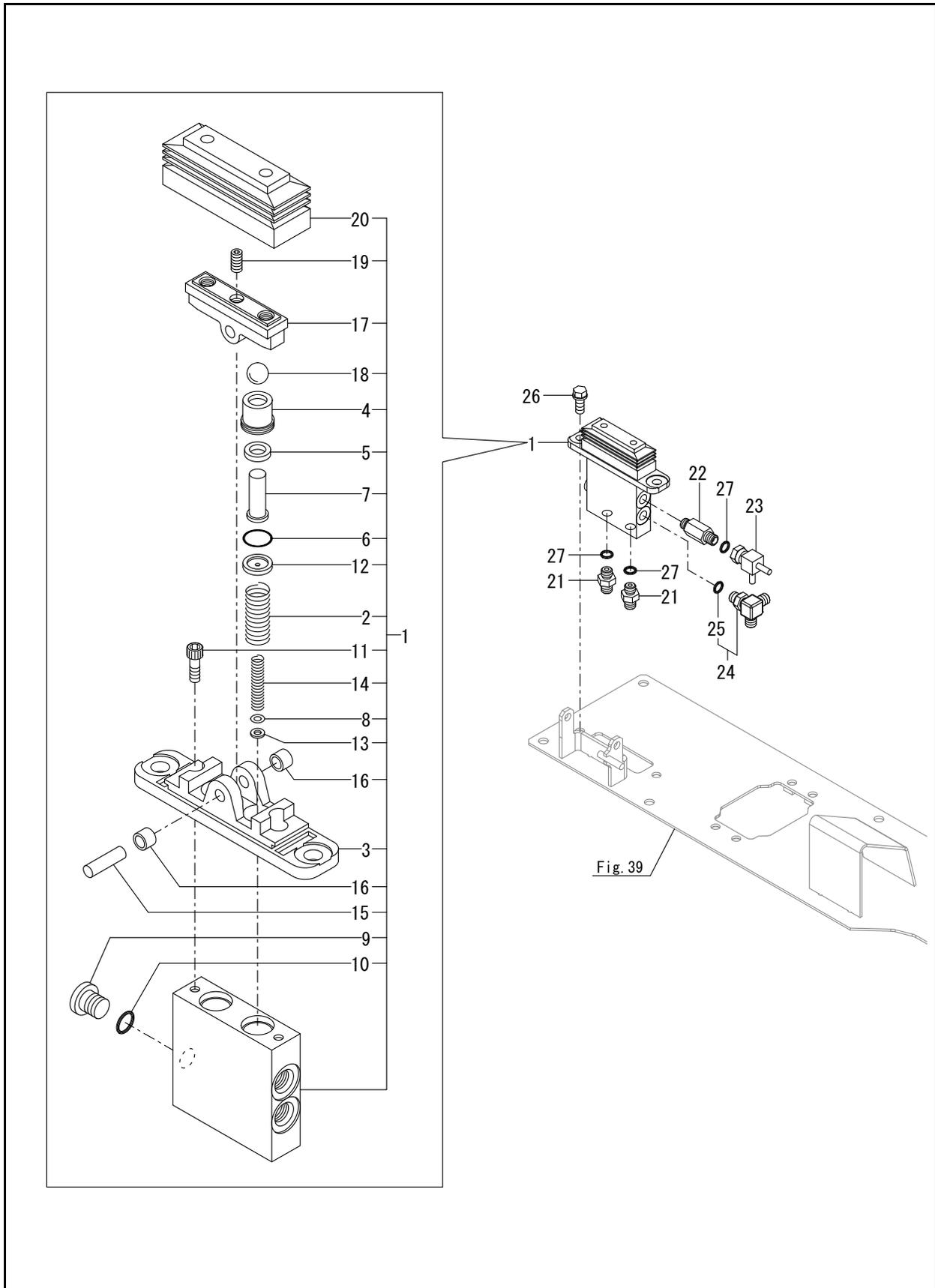
Z80 - COMPACT EXCAVATOR
FIG. 112 - REMOTE CONTROL VALVE (TRAVEL)



Z80 - COMPACT EXCAVATOR
FIG. 112 - REMOTE CONTROL VALVE (TRAVEL)

Ref.	No.	Part No.	Description	Qty.
	1	50282296	VALVE ASSY,TRAVEL	1
	2	50281865	SEAT,SPRING	4
	3	50281866	BALL,STEEL	12
	4	50281867	SEAT,SPRING	4
	5	50281868	BOLT 10X16	4
	6	50281869	SEAL KIT SUB	1
	7	50281870	O-RING	4
	8	50281871	O-RING	4
	9	50281471	PACKING	4
	10	50282468	O-RING 1B P-8.0	2
	11	50281872	GREASE CAP	4
	12	50281873	PLUG	4
	13	50281874	COVER	2
	14	50282297	ROD,PUSH	4
	15	50282298	SPRING	4
	16	50281935	COVER,PEDAL	2
	17	50282299	CAM	2
	18	50281936	PEDAL	2
	19	50281937	BLOCK	2
	20	50281474	SHIM	4
	21	50281475	PLUG	3
	22	50281938	SPRING	4
	23	50281939	SPRING	4
	24	50281479	WASHER	4
	25	50281481	CAM SHAFT	2
	26	50281482	BUSHING	4
	27	50281485	SET SCREW	2
	28	50281486	BELLOWS	2
	29	50281108	PLUG	2
	30	50282456	BALL 5/16, STEEL	4
	31	50282470	O-RING 1B P-11.0	3
	32	50282584	BOLT M 6X 50	4
	33	50282585	BOLT, M8X16	4
	34	50280792	JOINT PF1/4	2
	35	50280813	CONNECTOR ASSY, 02FF	3
	37	50282607	PACKING, 11.0	3
	38	50281490	NIPPLE G1/4	1
	39	50282607	PACKING, 11.0	1
	40	50282516	BOLT W/WASHER M10X25	4
	41	50282607	PACKING, 11.0	2

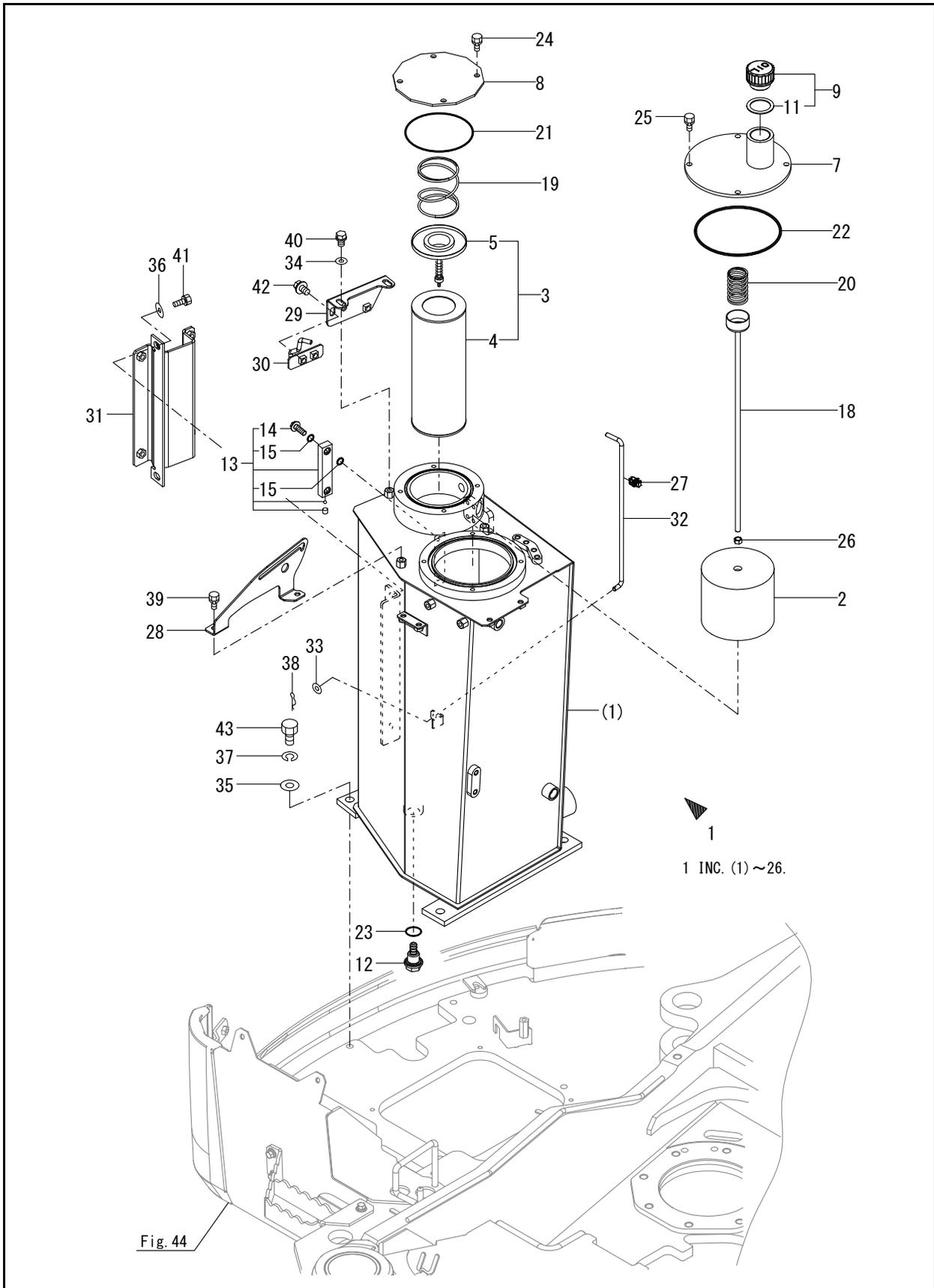
Z80 - COMPACT EXCAVATOR
FIG. 113 - REMOTE CONTROL VALVE (SWING)



Z80 - COMPACT EXCAVATOR
FIG. 113 - REMOTE CONTROL VALVE (SWING)

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

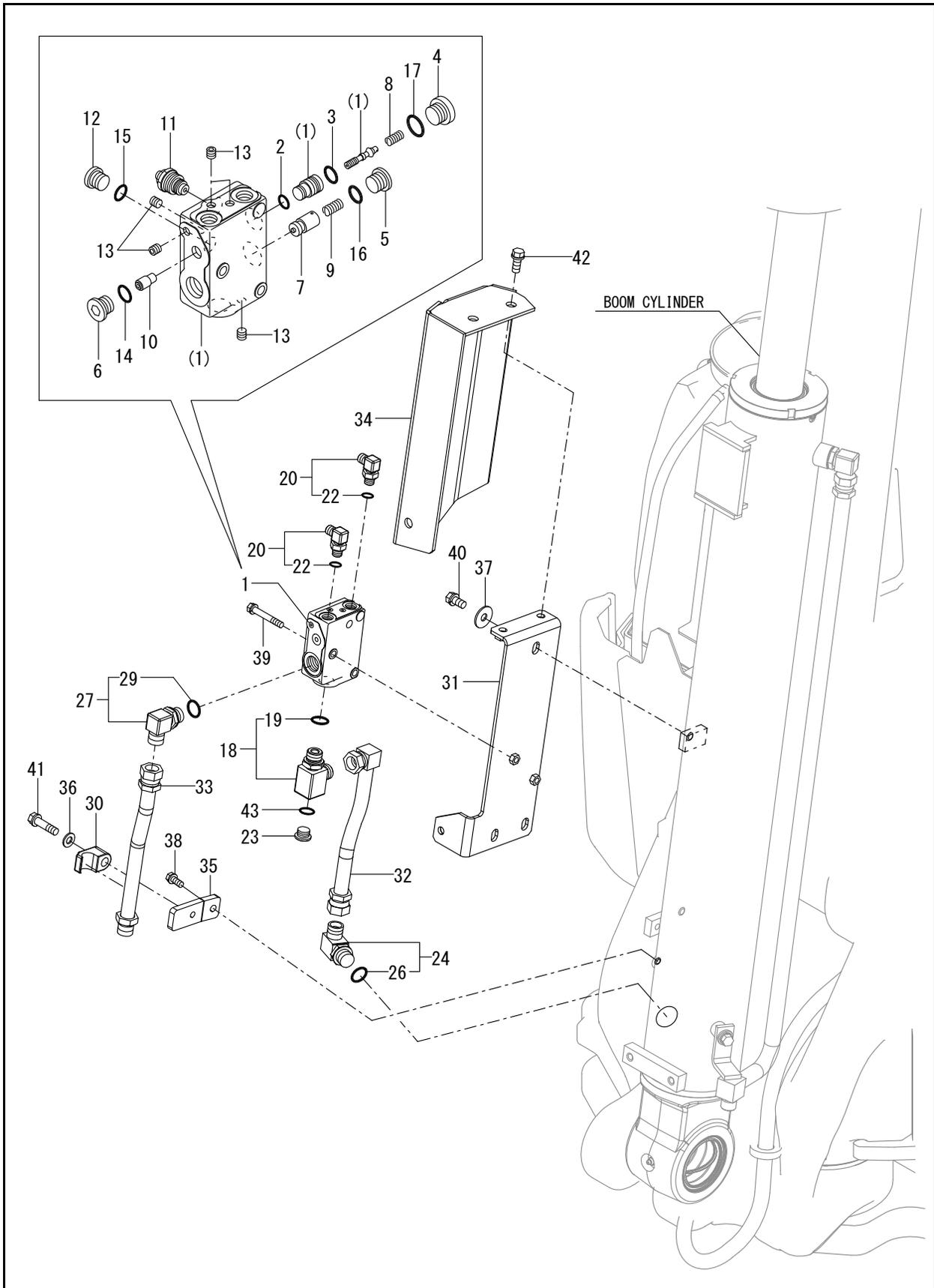
Z80 - COMPACT EXCAVATOR
FIG. 114 - HYD. OIL TANK



Z80 - COMPACT EXCAVATOR
FIG. 114 - HYD. OIL TANK

Ref. No.	Part No.	Description	Qty.
1	50282615	RESERVOIR ASSY	1
2	50280874	STRAINER,SUCTION	1
3	50280959	FILTER ASSY, RETURN	1
4	50280960	ELEMENT	1
5	50280775	VALVE, BY-PASS	1
7	50281944	COVER ASSY	1
8	50280968	COVER (GRAY:49) (use with label 26A)	1
9	50281945	CAP, RESERVER	1
11	50281946	PACKING	1
12	50280969	PLUG 24	1
13	50281947	GAUGE, OIL LEVEL	1
14	50281103	BOLT M10	2
15	50281104	O-RING	4
18	50281948	ROD ASSY,FILTER	1
19	50280776	SPRING, STRAINER	1
20	50280777	SPRING, STRAINER	1
21	50282485	O-RING 1A G-135.0	1
22	50282486	O-RING 1A G-170.0	1
23	50282493	O-RING 1A S-30.0	1
24	50282538	BOLT M10X 20	4
25	50282538	BOLT M10X 20	4
26	50282597	NUT 10	1
26A	50281021	LABEL, HYD.OIL TANK (see Page 4)	1
27	50282365	HOLDER, ROD 8	1
28	50282213	GUIDE,STOPPER	1
29	50282214	STAY ASSY	1
30	50282215	CATCH ASSY,LOCK	1
31	50281705	HINGE ASSY	1
32	50281706	HOOK,BONNET R	1
33	50282380	WASHER 8, POLISHED	1
34	138111	WASHER/POLISHED	2
35	50282382	WASHER 16,POLISHED	4
36	50282387	WASHER 10	2
37	50282396	SPRING WASHER 16	4
38	50282415	SNAP PIN (JASO 8)	1
39	50282514	BOLT M10X 16	2
40	50282514	BOLT M10X 16	2
41	50282516	BOLT W/WASHER M10X25	2
42	50282538	BOLT M10X 20	2
43	50282569	BOLT M16X 35 PLATED	4

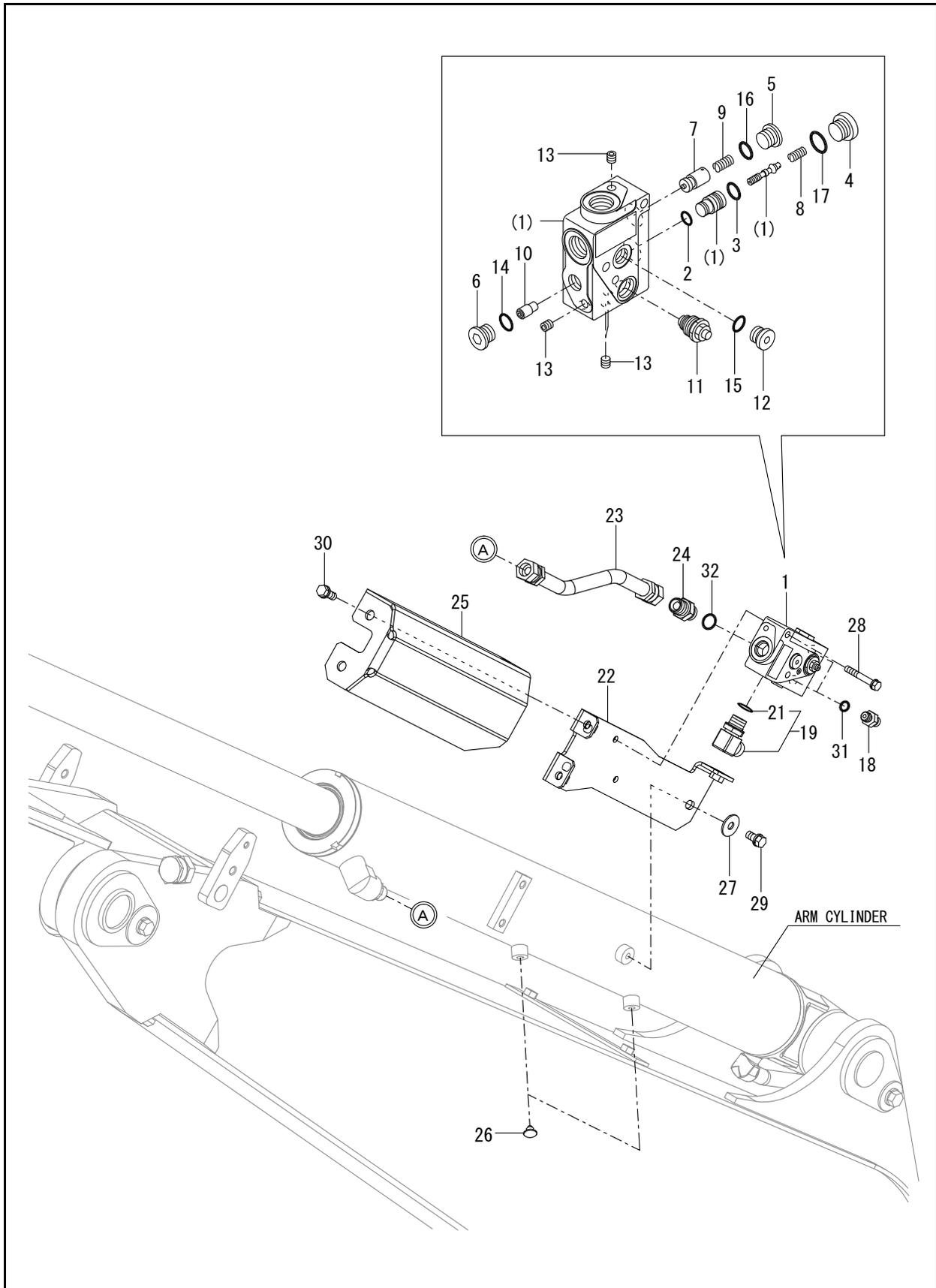
Z80 - COMPACT EXCAVATOR
FIG. 115 - HOLD VALVE (BOOM)



**Z80 - COMPACT EXCAVATOR
FIG. 115 - HOLD VALVE (BOOM)**

Ref.	No.	Part No.	Description	Qty.
	1	50281931	VALVE ASSY,HOLD	1
	2	50281415	O-RING	1
	3	50281416	O-RING	1
	4	50281417	PLUG	1
	5	50281418	PLUG	1
	6	50281419	PLUG	1
	7	50281420	POPPET	1
	8	50281421	SPRING	1
	9	50281422	SPRING	1
	10	50281423	PISTON	1
	11	50281932	VALVE,RELIEF 33	1
	12	50281107	PLUG	1
	13	50281108	PLUG	5
	14	50282469	O-RING 1B P-10.0	1
	15	50282470	O-RING 1B P-11.0	1
	16	50282471	O-RING 1B P-14.0	1
	17	50282473	O-RING 1B P-16.0	1
	18	50281424	CONECTOR	1
	19	50282474	O-RING 1B P-18.0	1
	20	50280813	CONNECTOR ASSY, 02FF	2
	22	50282607	PACKING, 11.0	2
	23	50280918	PLUG PF3/8,BLANK	1
	24	50281345	CONNECTOR PF1/2	1
	26	50282474	O-RING 1B P-18.0	1
	27	50280814	CONNECTOR 1/2L	1
	29	50282474	O-RING 1B P-18.0	1
	30	50286605	CLAMP	1
	31	50281969	BOOM BRACKET	1
	32	50282309	BOOM TUBE A	1
	33	50281970	BOOM TUBE	1
	34	50281971	BOOM COVER	1
	35	50281972	PLATE,CLAMP H	1
	36	138111	WASHER/POLISHED	1
	37	50282387	WASHER 10	3
	38	50282507	BOLT W/WASHER M8X20	1
	39	50282511	BOLT M 8X 55	2
	40	50282515	BOLT W/WASHER M10X20	3
	41	50282519	BOLT M10X 40	1
	42	50282539	BOLT 10X25 W/PLW+SPW	3
	43	50282608	O RING P 14.0 HNBR	1

Z80 - COMPACT EXCAVATOR
FIG. 116 - HOLD VALVE (ARM)

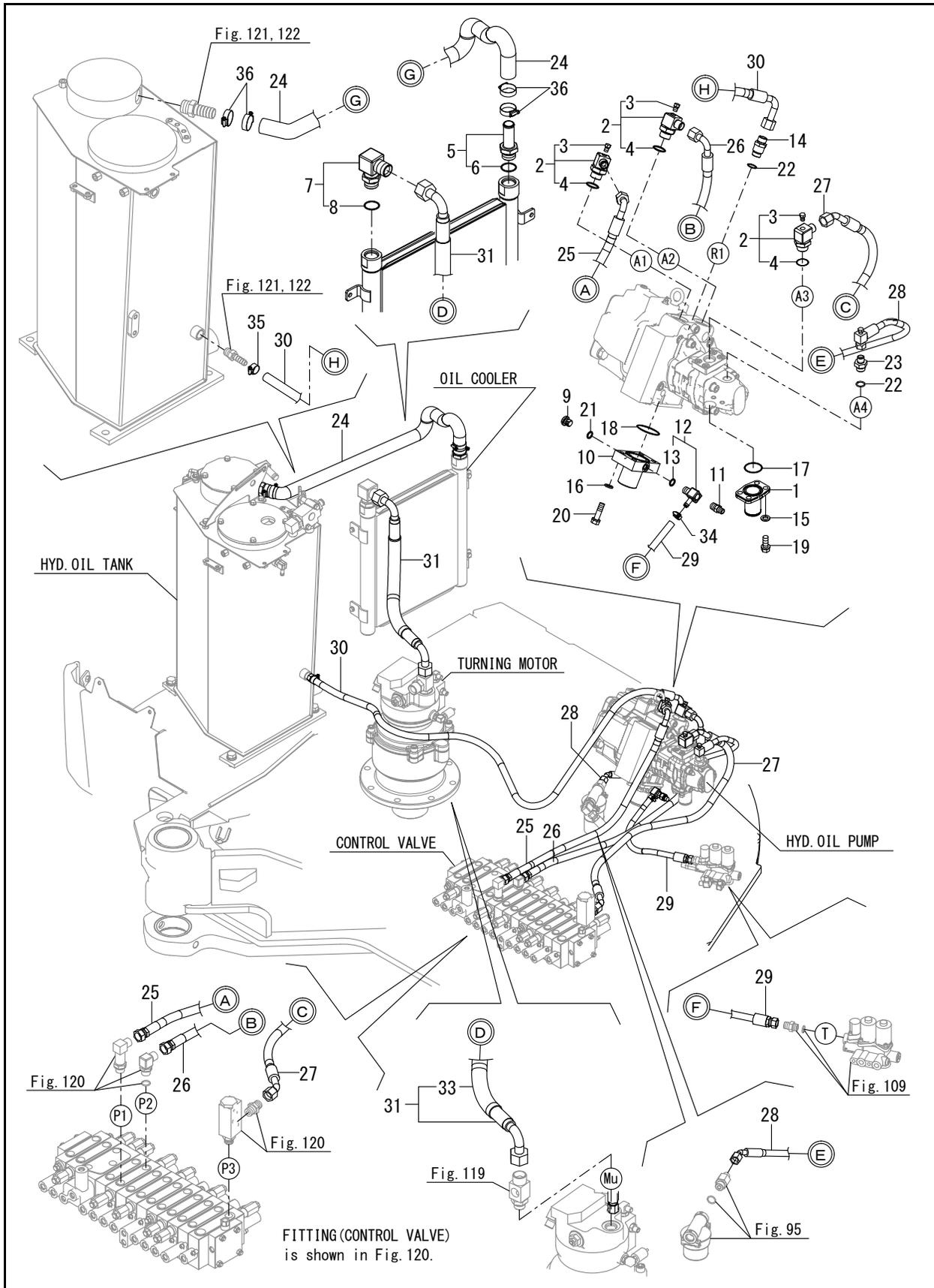


**Z80 - COMPACT EXCAVATOR
FIG. 116 - HOLD VALVE (ARM)**

Ref. No.	Part No.	Description	Qty.
1	50281931	VALVE ASSY,HOLD	1
2	50281415	O-RING	1
3	50281416	O-RING	1
4	50281417	PLUG	1
5	50281418	PLUG	1
6	50281419	PLUG	1
7	50281420	POPPET	1
8	50281421	SPRING	1
9	50281422	SPRING	1
10	50281423	PISTON	1
11	50281932	VALVE,RELIEF 33	1
12	50281107	PLUG	1
13	50281108	PLUG	5
14	50282469	O-RING 1B P-10.0	1
15	50282470	O-RING 1B P-11.0	1
16	50282471	O-RING 1B P-14.0	1
17	50282473	O-RING 1B P-16.0	1
18	50280792	JOINT PF1/4	2
19	50280814	CONNECTOR 1/2L	1
21	50282474	O-RING 1B P-18.0	1
22	50281973	ARM BRACKET	1
23	50281974	TUBE ASSY, ARM H	1
24	50280778	CONNECTOR	1
25	50281975	ARM COVER	1
26	50280920	TREE CLIP	1
27	50282387	WASHER 10	3
28	50282511	BOLT M 8X 55	2
29	50282515	BOLT W/WASHER M10X20	3
30	50282539	BOLT 10X25 W/PLW+SPW	3
31	50282607	PACKING, 11.0	2
32	50282609	O RING	1

Z80 - COMPACT EXCAVATOR

FIG. 117 - HYD. OIL PIPING (PUMP - CONTROL VALVE - OIL COOLER)

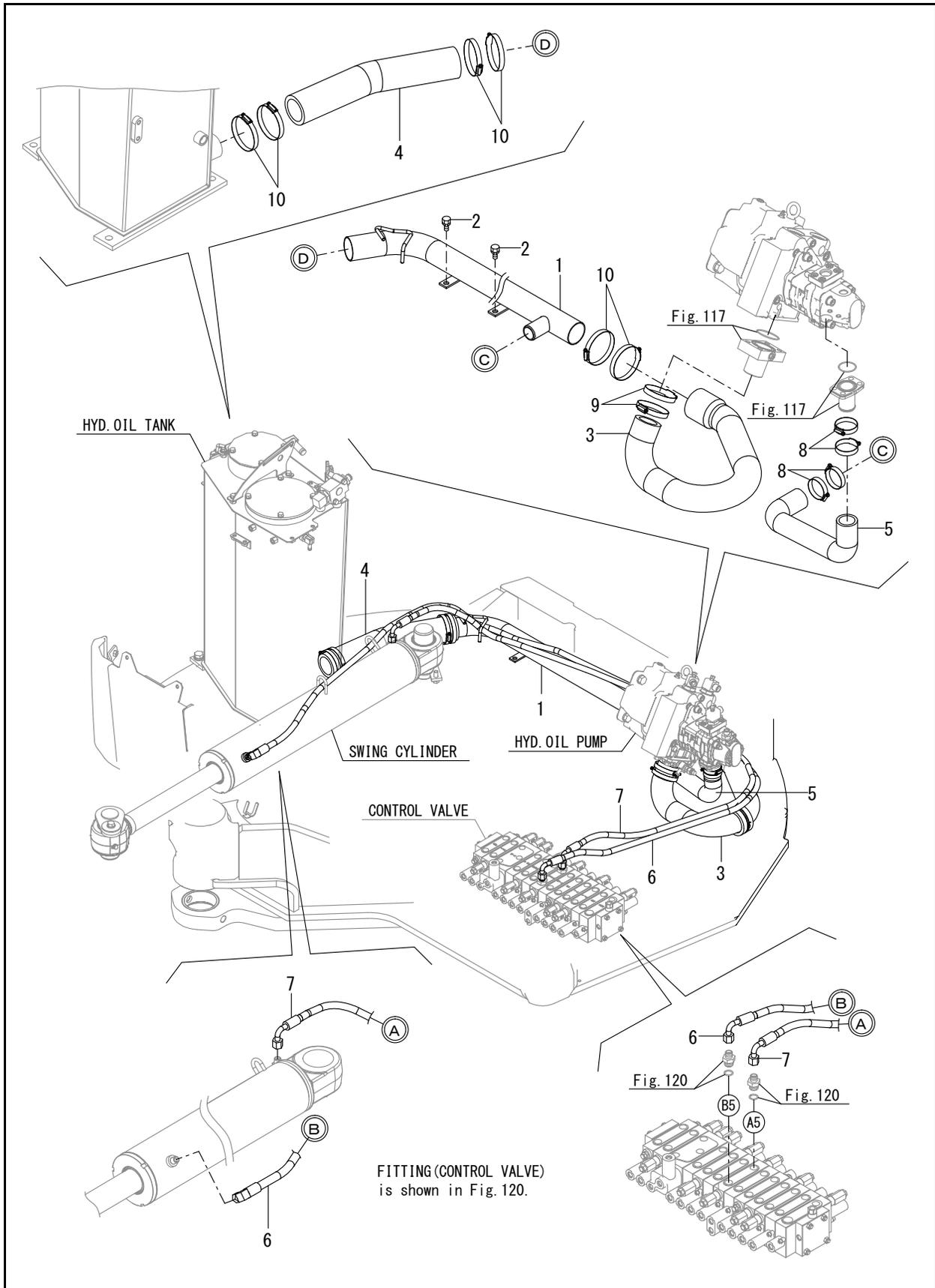


Z80 - COMPACT EXCAVATOR
FIG. 117 - HYD. OIL PIPING (PUMP - CONTROL VALVE - OIL COOLER)

Ref.	No.	Part No.	Description	Qty.
	1	50281006	FLANGE	1
	2	50282300	ELBOW ASSY	3
	3	50282301	PLUG, SCREW PT1/8	3
	4	50282610	PACKING, 24.0	3
	5	50281949	NIPPLE,G1	1
	6	50281537	PACKING,29.0	1
	7	50282302	90 ELBOW G1	1
	8	50282480	O-RING 1B P-29.0	1
	9	50281307	PLUG G1/4	1
	10	50281952	FLANGE ASSY	1
	11	50281003	NIPPLE 3/8X1/4	1
	12	50281953	ELBOW G3/8	1
	13	50282608	O RING P 14.0 HNBR	1
	14	50280835	CONNECTOR	1
	15	50282377	WASHER 10	4
	16	50282378	WASHER 12	4
	17	50282488	O-RING, 1B G 40.0	1
	18	50282489	O-RING 1B G-55.0	1
	19	50282517	BOLT M10X 30	4
	20	50282525	BOLT W/WASHER M12X30	4
	21	50282607	PACKING, 11.0	1
	22	50282609	O RING	2
	23	50282619	CONNECTOR PF1/2-3/8	1
	24	50282313	HOSE 25.4	1
	25	50282314	HOSE H108BC092S	1
	26	50282315	HOSE H108BC095S	1
	27	50282316	HOSE H108EE100S	1
	28	50282317	HOSE H604EZ068	1
	29	50282318	HOSE G806BY039S	1
	30	50282319	HOSE G608CY165S	1
	31	50282320	HOSE G616CC060	1
	33	50281312	INSULATOR,HOSE	1
	34	50282426	HOSE CLAMP 16	1
	35	50282427	HOSE CLAMP 22	1
	36	50282430	CLIP 41,HOSE	4

Z80 - COMPACT EXCAVATOR

FIG. 118 - HYD.OIL PIPING (TANK-PUMP, SWING CYLINDER)

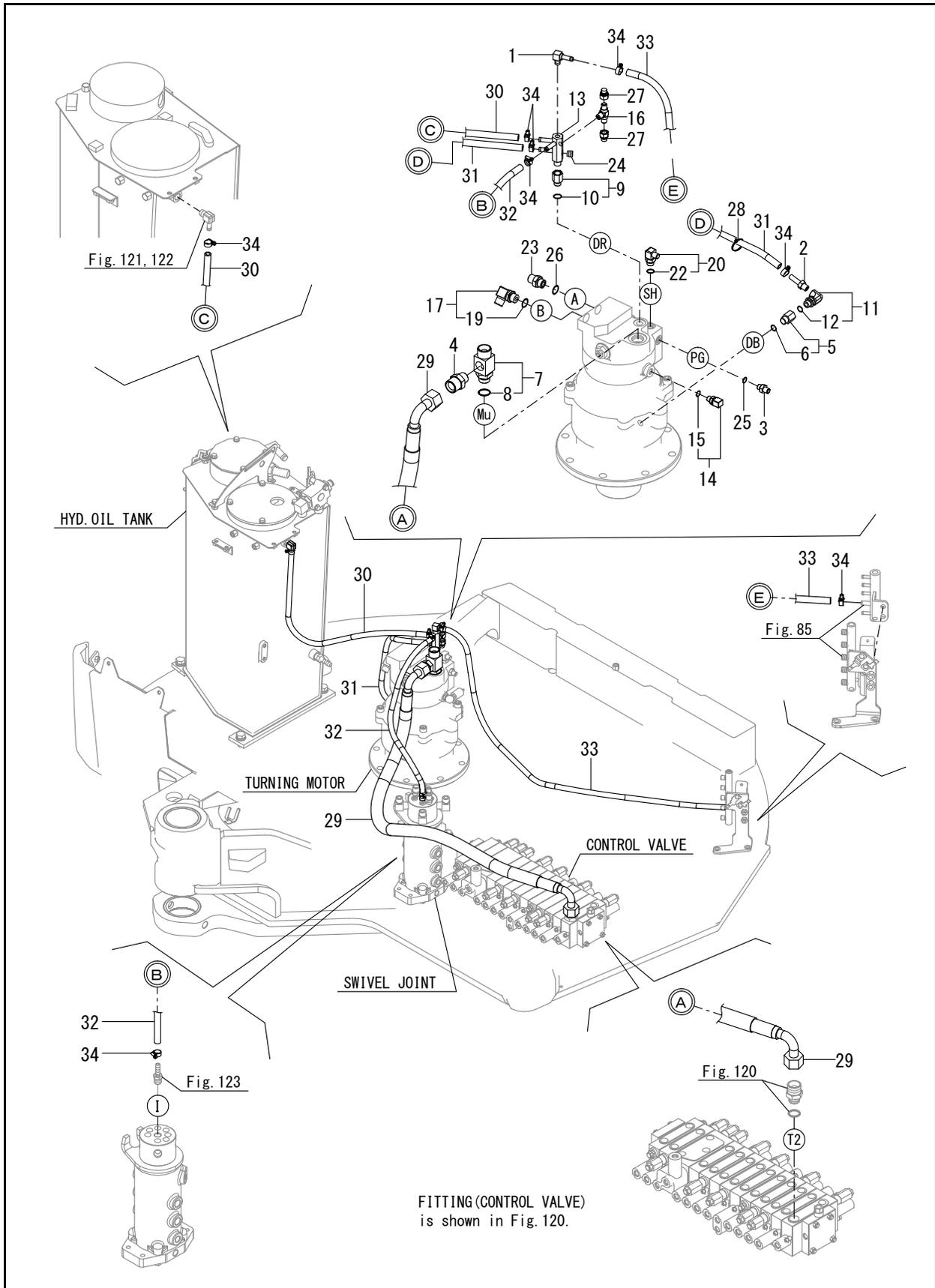


Z80 - COMPACT EXCAVATOR
FIG. 118 - HYD.OIL PIPING (TANK-PUMP, SWING CYLINDER)

Ref.	No.	Part No.	Description	Qty.
	1	50282308	TUBE ASSY,SUCTION	1
	2	50282515	BOLT W/WASHER M10X20	2
	3	50281978	HOSE ASSY,59 A	1
	4	50281979	HOSE,59 B	1
	5	50281980	HOSE 39.5	1
	6	50282323	HOSE H106BV332S	1
	7	50282324	HOSE H106CC237S	1
	8	50282432	CLAMP, HOSE 54	4
	9	50282433	HOSE CLIP	2
	10	50282434	HOSE CLAMP 90	6

Z80 - COMPACT EXCAVATOR

FIG. 119 - HYD. OIL PIPING (CONTROL VALVE - TURNING MOTOR)

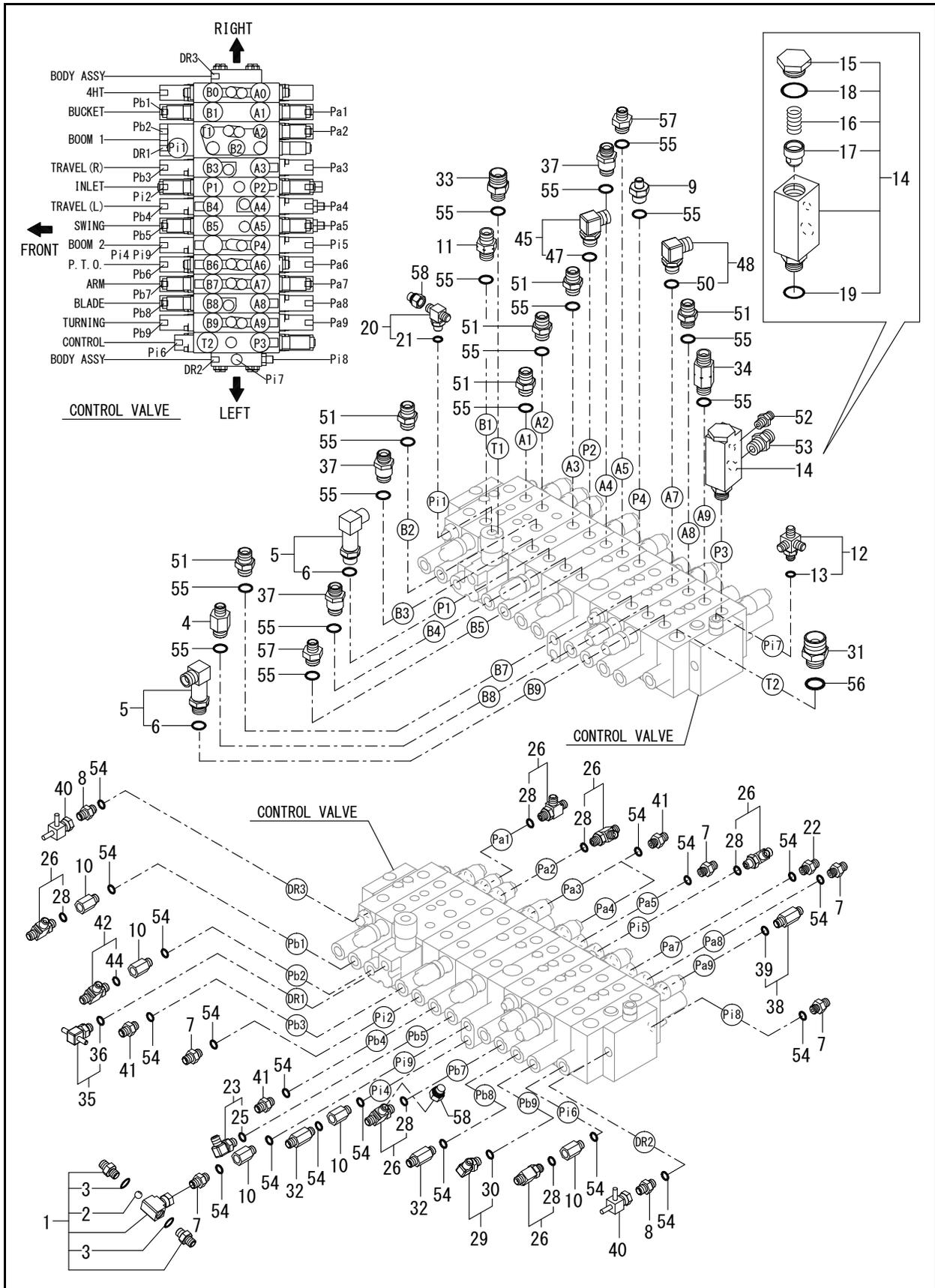


Z80 - COMPACT EXCAVATOR
FIG. 119 - HYD. OIL PIPING (CONTROL VALVE - TURNING MOTOR)

Ref.	No.	Part No.	Description	Qty.
	1	50280844	ELBOW	1
	2	50280807	NIPPLE 3/8	1
	3	50280792	JOINT PF1/4	1
	4	50280973	CONNECTER	1
	5	50281496	JOINT G3/8	1
	6	50282471	O-RING 1B P-14.0	1
	7	50280974	CONNECTOR(PF1-PF3/4	1
	8	50282477	O-RING 1B P-24.0	1
	9	50281950	ADAPTER M/F 3/8	1
	10	50282608	O RING P 14.0 HNBR	1
	11	50281308	ELBOW 3/8	1
	12	50282471	O-RING 1B P-14.0	1
	13	50281310	JOINT 3/8	1
	14	50282306	JOINT,G1/4-RC1/8	1
	15	50282607	PACKING, 11.0	1
	16	50280876	CONNECTOR 3-1/4	1
	17	50280814	CONNECTOR 1/2L	1
	19	50282474	O-RING 1B P-18.0	1
	20	50280815	CONNECTOR 3/8-1/4L	1
	22	50282471	O-RING 1B P-14.0	1
	23	50280778	CONNECTOR	1
	24	425-35678	PLUG PT 1/4 SCREW	1
	25	50282607	PACKING, 11.0	1
	26	50282609	O RING	1
	27	50282368	CAP G 1/4	2
	28	50280802	BAND	1
	29	50281983	HOSE G616CC159S	1
	30	50281984	HOSE G806YY075	1
	31	50281985	HOSE G806YY060S	1
	32	50281985	HOSE G806YY060S	1
	33	50281986	HOSE G806YY140	1
	34	50282426	HOSE CLAMP 16	8

Z80 - COMPACT EXCAVATOR

FIG. 120 - HYD. OIL PIPING (CONTROL VALVE : FITTING)

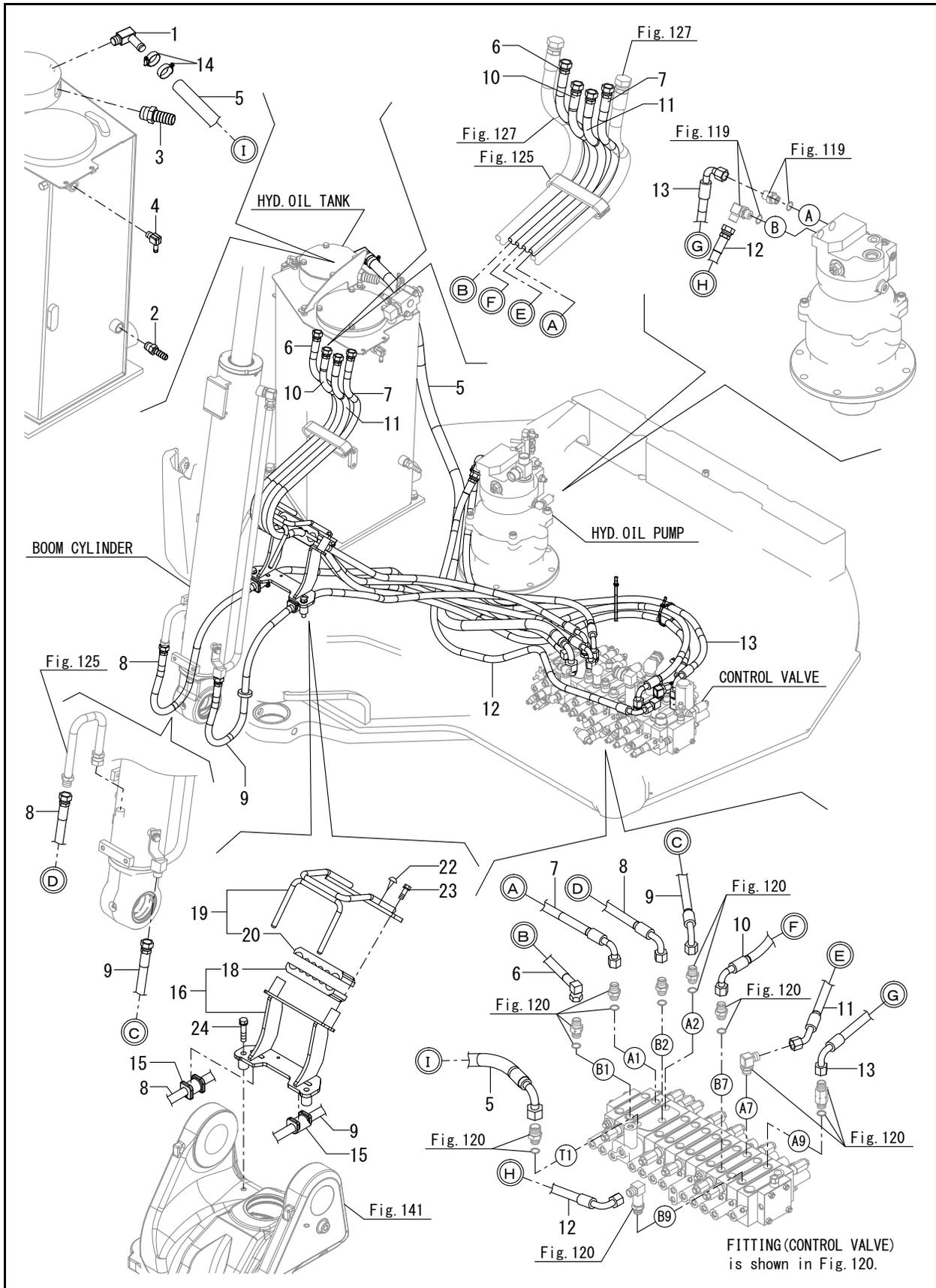


Z80 - COMPACT EXCAVATOR
FIG. 120 - HYD. OIL PIPING (CONTROL VALVE : FITTING)

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	50282082	VALVE,SHUTTLE	1	53	50282440	JOINT RGI 1/2	1
2	50282458	BALL 7/16, STEEL	1	54	50282607	PACKING, 11.0	21
3	50282607	PACKING, 11.0	2	55	50282609	O RING	16
4	50281013	CONNECTOR	1	56	50282610	PACKING, 24.0	1
5	50281319	ELBOW 1/2 L	2	57	50282619	CONNECTOR PF1/2-3/8	2
6	50282474	O-RING 1B P-18.0	2	58	50282368	CAP G 1/4	2
7	50280792	JOINT PF1/4	5				
8	50280792	JOINT PF1/4	2				
9	50281014	CONNECTOR	1				
10	50281007	CONNECTOR	5				
11	50281015	CONNECTOR 1/2X 1/2	1				
12	50281225	CONNECTOR 1/4	1				
13	50282470	O-RING 1B P-11.0	1				
14	50281951	ELBOW,901/2	1				
15	50286502	PLUG	1				
16	50286503	SPRING	1				
17	50286504	POPPET VALVE	1				
18	50282477	O-RING 1B P-24.0	1				
19	50282609	O RING	1				
20	50280975	THEETH	1				
21	50282470	O-RING 1B P-11.0	1				
22	50281488	CONNECTOR G1/4-1.0	1				
23	50280813	CONNECTOR ASSY, 02FF	1				
25	50282607	PACKING, 11.0	1				
26	50280875	JOINT 3-1/4 ASSY	6				
28	50282607	PACKING, 11.0	6				
29	50281489	ELBOW,90G1/4-0.6	1				
30	50282607	PACKING, 11.0	1				
31	50280843	JOINT PF3/4- 1	1				
32	50280919	CONNECTOR 1/4-1/4	2				
33	50280977	ADAPTER	1				
34	50280913	JOINT PF1/2	1				
35	50281490	NIPPLE G1/4	1				
36	50282607	PACKING, 11.0	1				
37	50280835	CONNECTOR	3				
38	50281491	CONNECTOR G1/4L-0.6	1				
39	50282607	PACKING, 11.0	1				
40	50281492	NIPPLE FEMALE G1/4	2				
41	50280890	JOINT PF1/4-0.7	4				
42	50280891	T-JOINT 1/4	1				
44	50282470	O-RING 1B P-11.0	1				
45	50280814	CONNECTOR 1/2L	1				
47	50282474	O-RING 1B P-18.0	1				
48	50280814	CONNECTOR 1/2L	1				
50	50282474	O-RING 1B P-18.0	1				
51	50280778	CONNECTOR	6				
52	50282438	JOINT RGI1/4	1				

Z80 - COMPACT EXCAVATOR

FIG. 121 - HYD. OIL PIPING (CONTROL VALVE - BOOM, TURNING MOTOR, TANK)

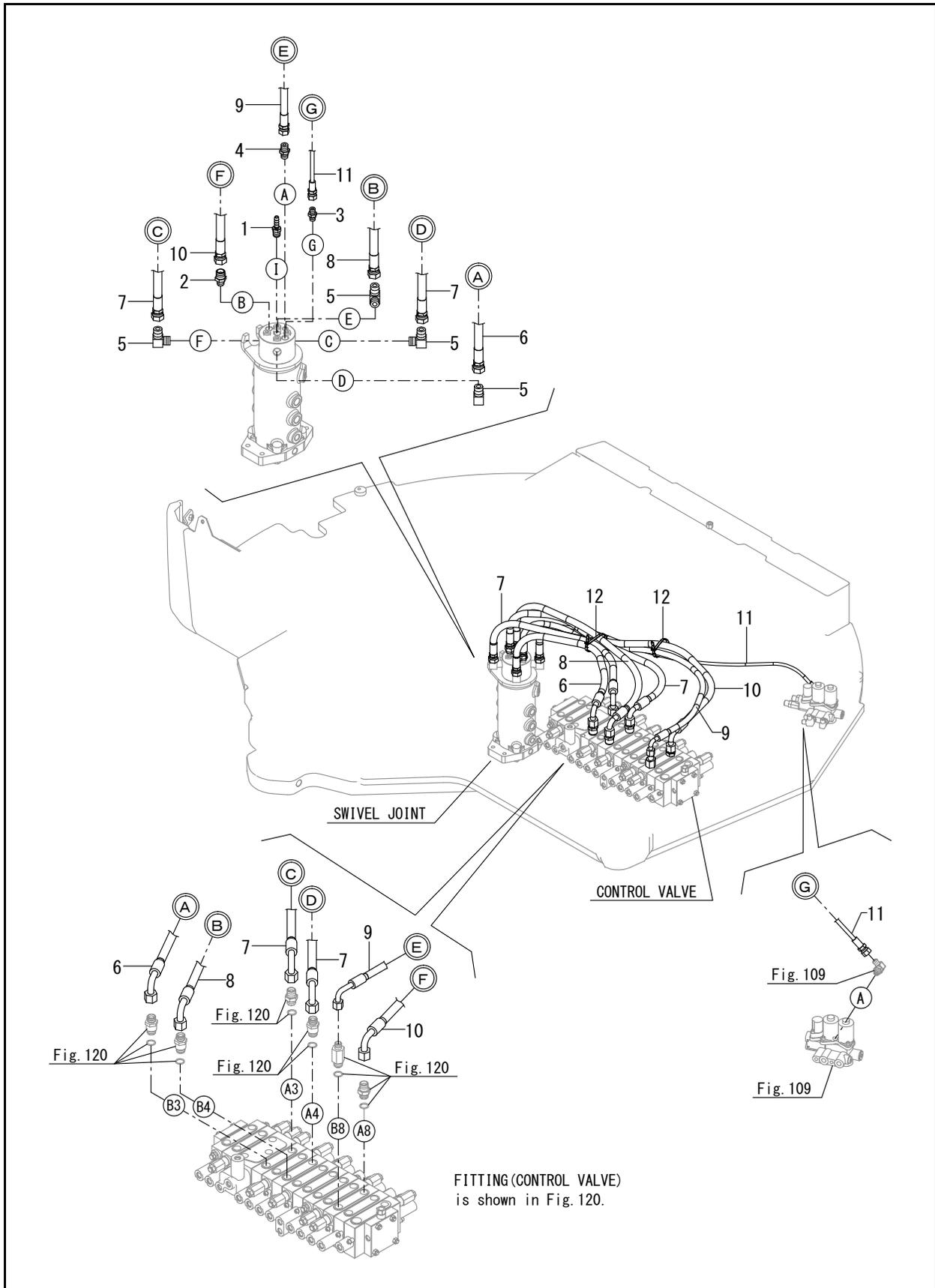


Z80 - COMPACT EXCAVATOR**FIG. 121 - HYD. OIL PIPING (CONTROL VALVE - BOOM, TURNING MOTOR, TANK)**

Ref.	No.	Part No.	Description	Qty.
	1	50281105	ELBOW 90 1/2	1
	2	50280902	CONNECTOR 12,ROUND	1
	3	50280976	NIPPLE, HOSE	1
	4	50280903	ELBOW	1
	5	50281982	HOSE G612CY188S	1
	6	50282321	HOSE H108BV238K	1
	7	50282322	HOSE H108BC234K	1
	8	50281988	HOSE H108BC217K	1
	9	50281989	HOSE H108BC208K	1
	10	50282328	HOSE G108BC291K	1
	11	50282329	HOSE H108BE272K	1
	12	50281996	HOSE H108BC145S	1
	13	50281997	HOSE H108CC152S	1
	14	50282429	HOSE CLAMP 35	2
	15	50280983	RUBBER A	2
	16	50286397	HOSE CLAMP ASSY	1
	18	50282336	RUBBER SUPPORT,HOSE	1
	19	50286399	CLAMP PLATE ASSY	1
	20	50282336	RUBBER SUPPORT,HOSE	1
	22	50280920	TREE CLIP	4
	23	50282517	BOLT M10X 30	2
	24	50282528	BOLT M12X 60	2

Z80 - COMPACT EXCAVATOR

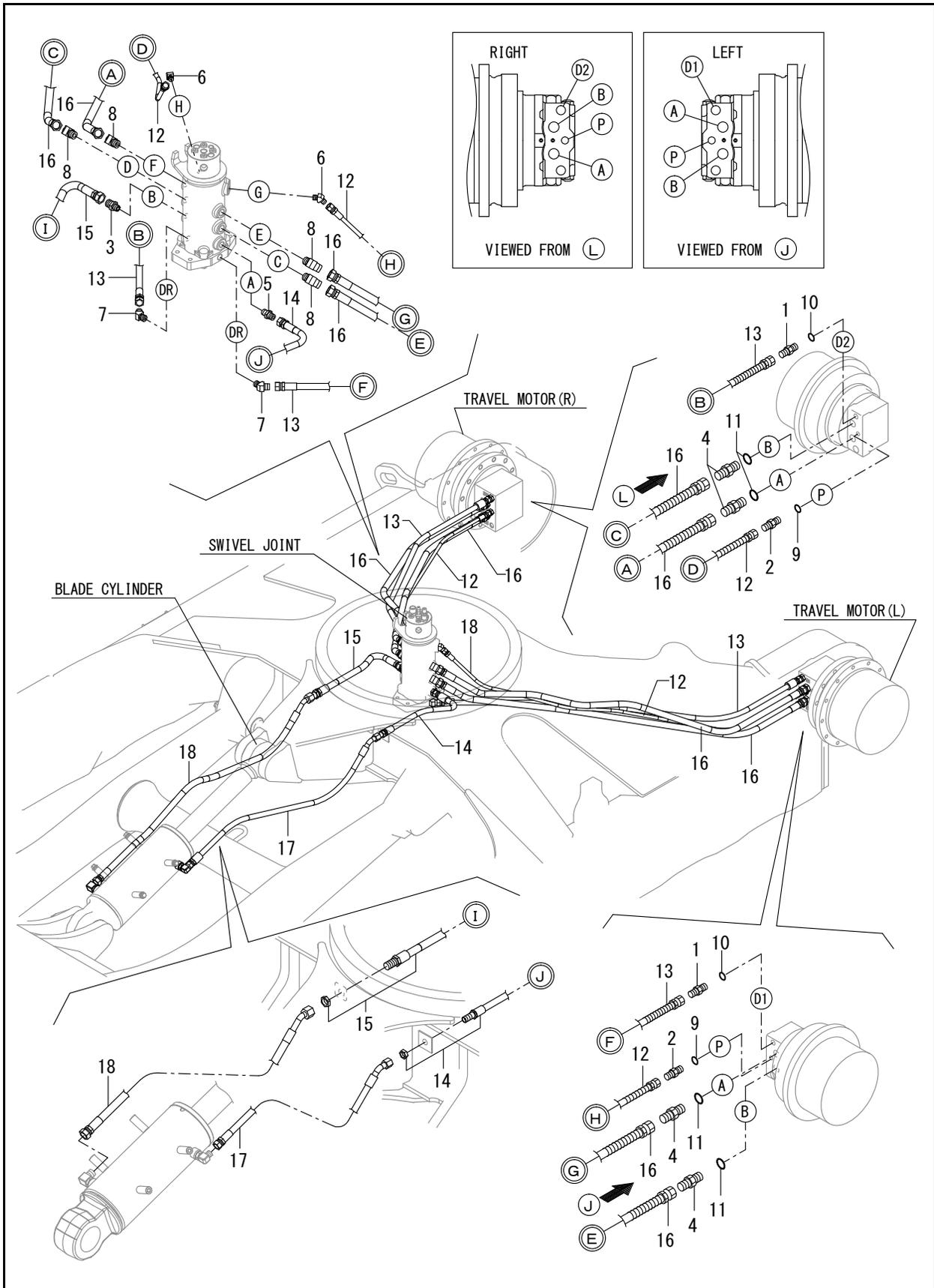
FIG. 123 - HYD. OIL PIPING (CONTROL VALVE - SWIVEL JOINT)



Z80 - COMPACT EXCAVATOR
FIG. 123 - HYD. OIL PIPING (CONTROL VALVE - SWIVEL JOINT)

Ref.	No.	Part No.	Description	Qty.
	1	50280807	NIPPLE 3/8	1
	2	50280816	ADAPTOR 1/2-3/8	1
	3	50282438	JOINT RGI1/4	1
	4	50282439	JOINT RGI 3/8	1
	5	50282442	JOINT 90RGI 1/2	4
	6	50281990	HOSE H108BC070	1
	7	50281991	HOSE H108BC073	2
	8	50281992	HOSE H108BC086	1
	9	50281994	HOSE H106BC113S	1
	10	50281995	HOSE H108BC113S	1
	11	50282029	HOSE F403BB107S	1
	12	50280791	CLAMP 350	3

Z80 - COMPACT EXCAVATOR
FIG. 124 - HYD. OIL PIPING (TRACK FRAME)



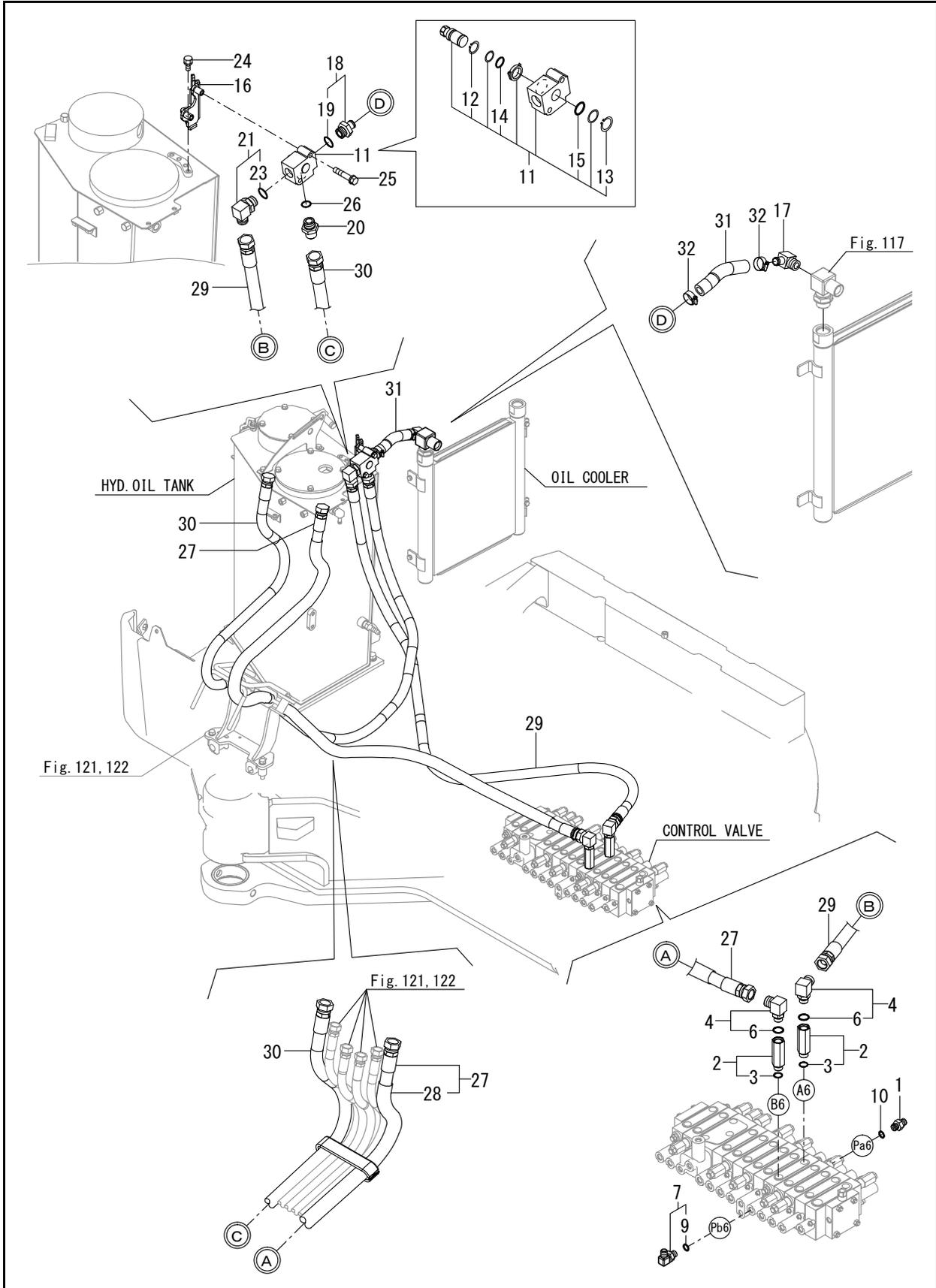
Z80 - COMPACT EXCAVATOR
FIG. 124 - HYD. OIL PIPING (TRACK FRAME)

Ref.	No.	Part No.	Description	Qty.
	1	50281350	JOINT	2
	2	50280792	JOINT PF1/4	2
	3	50280816	ADAPTOR 1/2-3/8	1
	4	50280778	CONNECTOR	4
	5	50282439	JOINT RGI 3/8	1
	6	50282443	JOINT 45RGI1/4	2
	7	50282444	JOINT 45RGI 3/8	2
	8	50282445	JOINT 45RGI1/2	4
	9	50282607	PACKING, 11.0	2
	10	50282608	O RING P 14.0 HNBR	2
	11	50282609	O RING	4
	12	50280984	HOSE	2
	13	50280985	HOSE	2
	14	50281998	HOSE H106BX055	1
	15	50281999	HOSE H108BX055	1
	16	50281311	HOSE	4
	17	50282000	HOSE H106BE097W	1
	18	50282001	HOSE H108BE130W	1

**Z80 - COMPACT EXCAVATOR
FIG. 125 - HYD. OIL PIPING (BOOM)**

Ref. No.	Part No.	Description	Qty.
1	50281050	CLIP	6
2	50286333	ARM TUBE ASSY LT	2
3	50286395	BUCKET TUBE ASSY LT	1
4	50286335	ARM TUBE ASSY RT	1
5	50282307	RUBBER CLAMP A	4
6	50286339	TUBE CLAMP	1
7	50286341	TUBE CLAMP	1
8	50281960	COLLAR,CLAMP	4
9	50286343	TUBE CLAMP	1
10	50280978	COLLAR, CLAMP	2
11	50286181	TUBE CLAMP	1
12	50280982	RUBBER B	4
13	50286169	CLAMP, 1/2	2
14	138111	WASHER/POLISHED	2
15	138111	WASHER/POLISHED	4
16	50282521	BOLT M10X 50	2
17	50282522	BOLT M10X 55	4
18	50282526	BOLT M12X 40	2
19	50282242	BOOM TUBE STD	1
20	50286169	CLAMP, 1/2	1
21	50281972	PLATE,CLAMP H	1
22	138111	WASHER/POLISHED	1
23	50282507	BOLT W/WASHER M8X20	1
24	50282519	BOLT M10X 40	1
25	50281884	CLAMP,HOSE 1/2	2
26	50280983	RUBBER A	2
27	50281987	HOSE H108BB202K	1
28	50282514	BOLT M10X 16	2
29	50282331	HOSE H108BB095K	1
30	50282332	HOSE H108BB070W	2
31	50282008	HOSE COVER 23X330	1
32	50282076	HOSE CLIP 400	2
33	50281050	CLIP	6
34	50280920	TREE CLIP	6

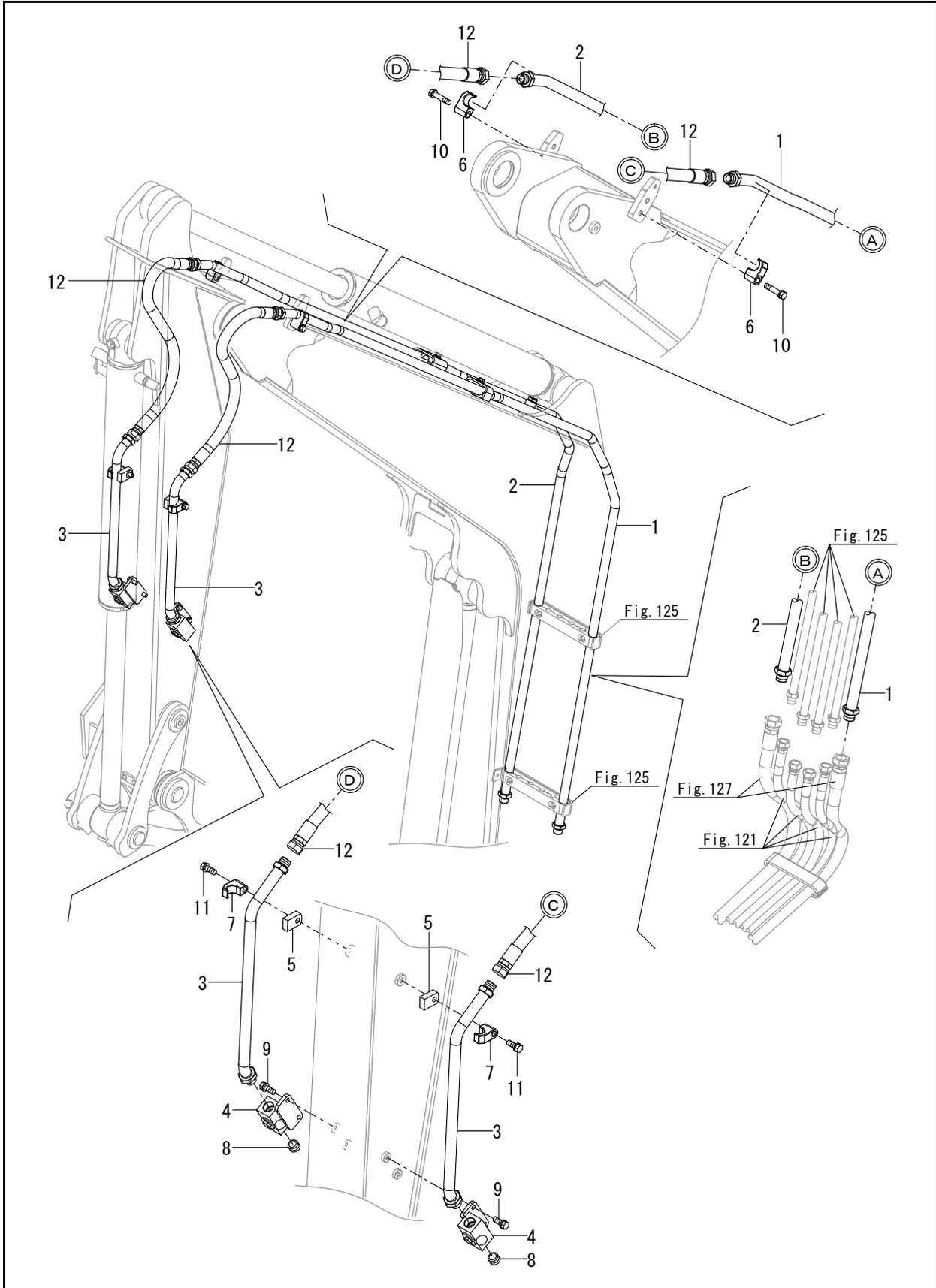
Z80 - COMPACT EXCAVATOR
FIG. 127 - HYD. OIL PIPING (P.T.O. : FRAME END)



Z80 - COMPACT EXCAVATOR
FIG. 127 - HYD. OIL PIPING (P.T.O. : FRAME END)

Ref.	No.	Part No.	Description	Qty.
1	50280792		JOINT PF1/4	1
2	50281413		ADAPTER G1/2-1/2	2
3	50282609		O RING	2
4	50280842		ELBOW	2
6	50282474		O-RING 1B P-18.0	2
7	50280813		CONNECTOR ASSY, 02FF	1
9	50282607		PACKING, 11.0	1
10	50282607		PACKING, 11.0	1
11	50281905		VALVE ASSY,SELECOR	1
12	50282398		CIRCLIP 21	1
13	50282399		CIRCLIP 25S	1
14	50282476		O-RING 1B P 21	1
15	50282478		O-RING 1B P-25.0	1
16	50281906		STAY ASSY,VALVE	1
17	50281165		ELBOW	1
18	50281320		NIPPLE PF3/4,HOSE	1
19	50282477		O-RING 1B P-24.0	1
20	50280824		JOINT PF3/4	1
21	50280898		CONNECTOR PF3/4M CMP	1
23	50282477		O-RING 1B P-24.0	1
24	50282514		BOLT M10X 16	2
25	50282521		BOLT M10X 50	2
26	50282610		PACKING, 24.0	1
27	50282325		HOSE G112BB259K	1
28	50280909		SPONGE, HOSE	1
29	50282326		HOSE G112BB205K	1
30	50282327		HOSE G112BB304K	1
31	50282330		HOSE G812YY018	1
32	50282428		HOSE CLAMP 25	2

Z80 - COMPACT EXCAVATOR
FIG. 128 - HYD. OIL PIPING (P.T.O. : ARM END)

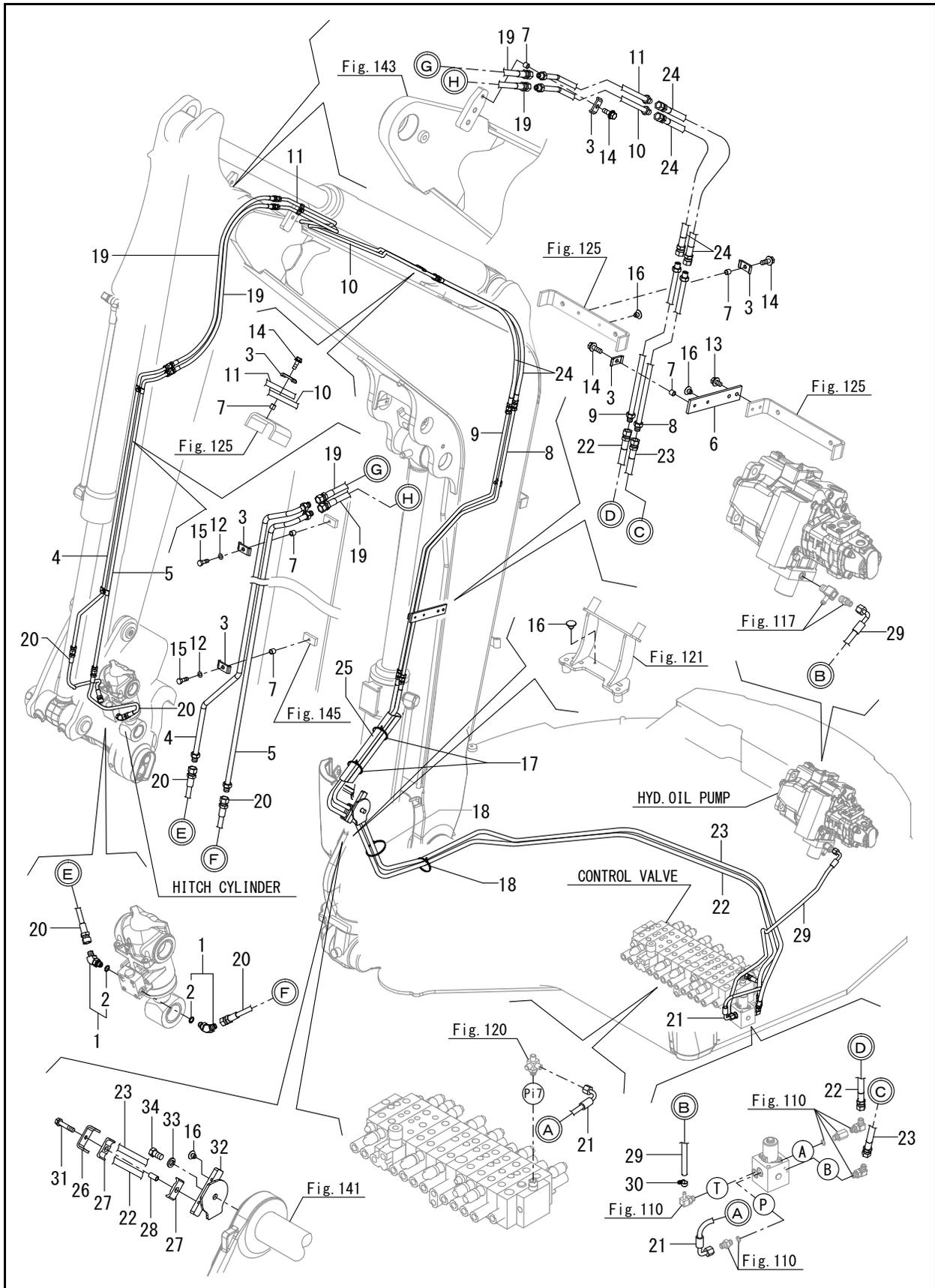


Z80 - COMPACT EXCAVATOR
FIG. 128 - HYD. OIL PIPING (P.T.O. : ARM END)

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

Z80 - COMPACT EXCAVATOR

FIG. 130 - HYD. OIL PIPING (QUICK COUPLER)

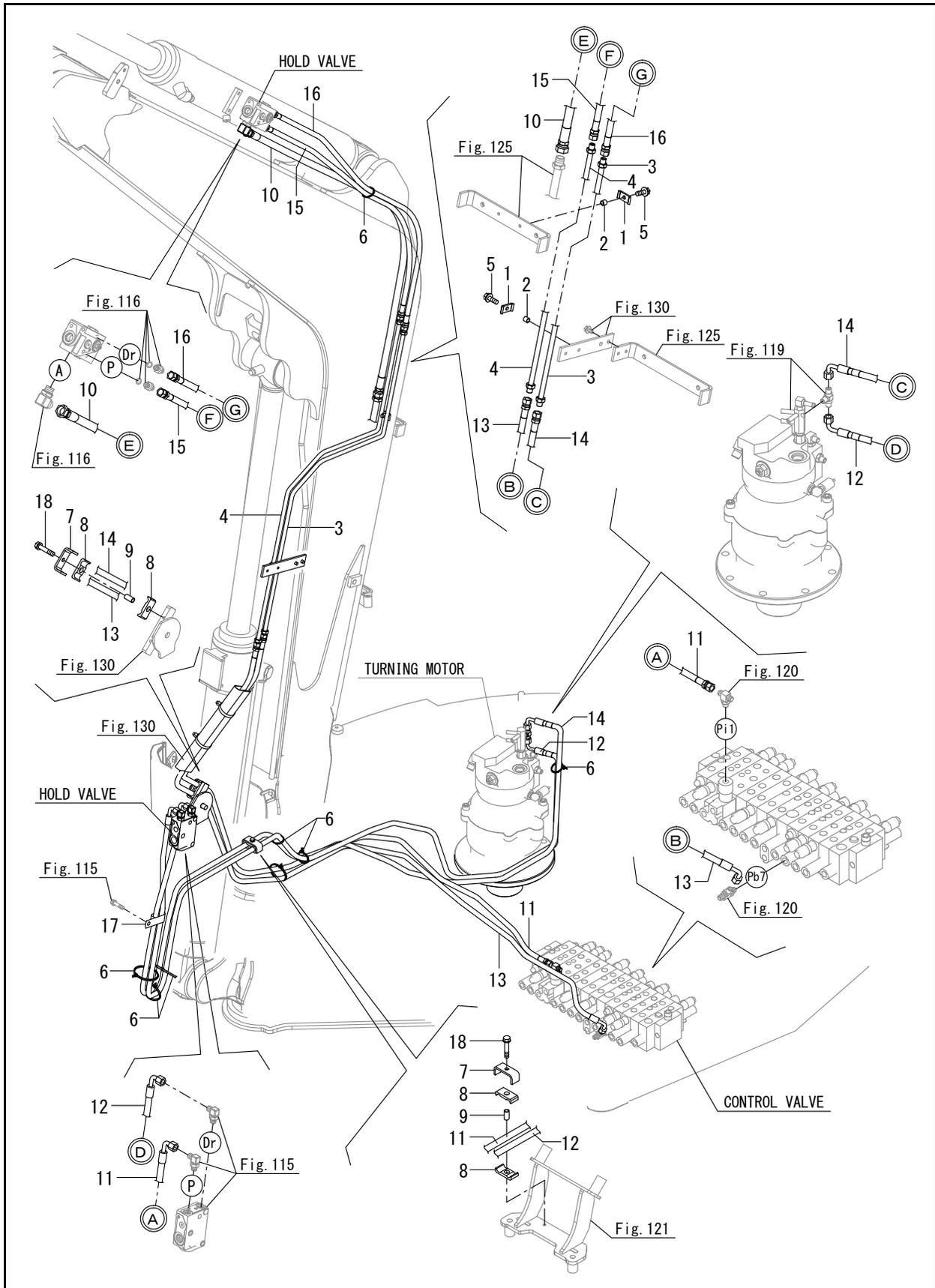


Z80 - COMPACT EXCAVATOR
FIG. 130 - HYD. OIL PIPING (QUICK COUPLER)

Ref.	No.	Part No.	Description	Qty.
	1	50281388	ELBOW PF1/4-PF1/4	2
	2	50282470	O-RING 1B P-11.0	2
	3	50280772	PLATE	6
	4	50286249	ARM TUBE	1
	5	50286251	ARM TUBE	1
	6	50286345	CLAMP PLATE	1
	7	50280808	COLLAR 9X11	6
	8	50286347	TUBE ASSY A	1
	9	50286349	TUBE ASSY B	1
	10	50286351	TUBE ASSY C	1
	11	50286353	TUBE ASSY D	1
	12	50282392	WASHER, 8	2
	13	50282533	BOLT M 8X 16	2
	14	425-35026	BOLT M8 X 25	4
	15	50282549	BOLT, 8 X 25	2
	16	50281050	CLIP	4
	17	50280798	BAND 300	2
	18	50282352	BAND	2
	19	50281391	HOSE	2
	20	50281377	HOSE	2
	21	50282002	HOSE H604CC025	1
	22	50282333	HOSE H604BB339K	1
	23	50282334	HOSE H604BB339K	1
	24	50282003	HOSE H604BB093K	2
	25	50282007	COVER,HOSE	1
	26	50282039	CLAMP 54X25	1
	27	50282040	RUBBER SUPPORT,HOSE	2
	28	50282041	COLLAR 9X24	1
	29	50282338	HOSE G804CY103	1
	30	425-34918	CLAMP 13	1
	31	50282510	BOLT M 8X 40	1
	32	50286419	CLAMP ASSY	1
	33	188712	SPRING/WASHER 14	1
	34	50282566	BOLT M14X 25 PLATED	1

Z80 - COMPACT EXCAVATOR

FIG. 132 - HYD. OIL PIPING (HOLD VALVE)

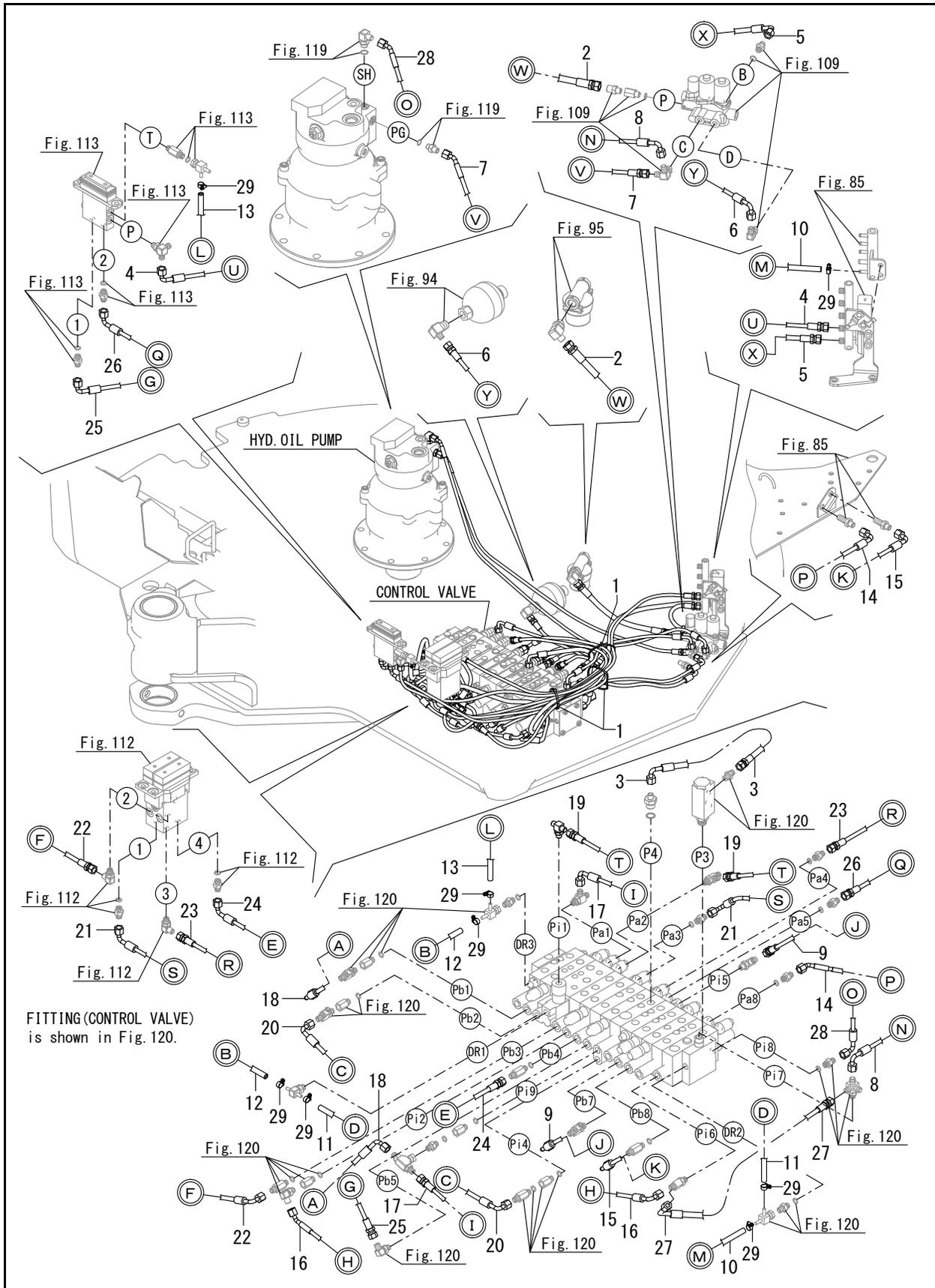


Z80 - COMPACT EXCAVATOR
FIG. 132 - HYD. OIL PIPING (HOLD VALVE)

Ref.	No.	Part No.	Description	Qty.
	1	50280772	PLATE	2
	2	50280808	COLLAR 9X11	2
	3	50286355	HDV TUBE ASSY LT	1
	4	50286357	HDV TUBE ASSY RT	1
	5	425-35026	BOLT M8 X 25	2
	6	50282352	BAND	11
	7	50282039	CLAMP 54X25	2
	8	50282040	RUBBER SUPPORT,HOSE	4
	9	50282041	COLLAR 9X24	2
	10	50282061	HOSE H108BB168K	1
	11	50282062	HOSE H604BC268K	1
	12	50282063	HOSE H604CC285K	1
	13	50282064	HOSE H604BC260K	1
	14	50282065	HOSE H604BC264K	1
	15	50282066	HOSE H604BB131K	1
	16	50282067	HOSE H604BB133K	1
	17	50282369	CLIP 173219	1
	18	50282510	BOLT M 8X 40	2

Z80 - COMPACT EXCAVATOR

FIG. 134 - CONTROL PIPING (CONTROL VALVE - SOLENOID VALVE)

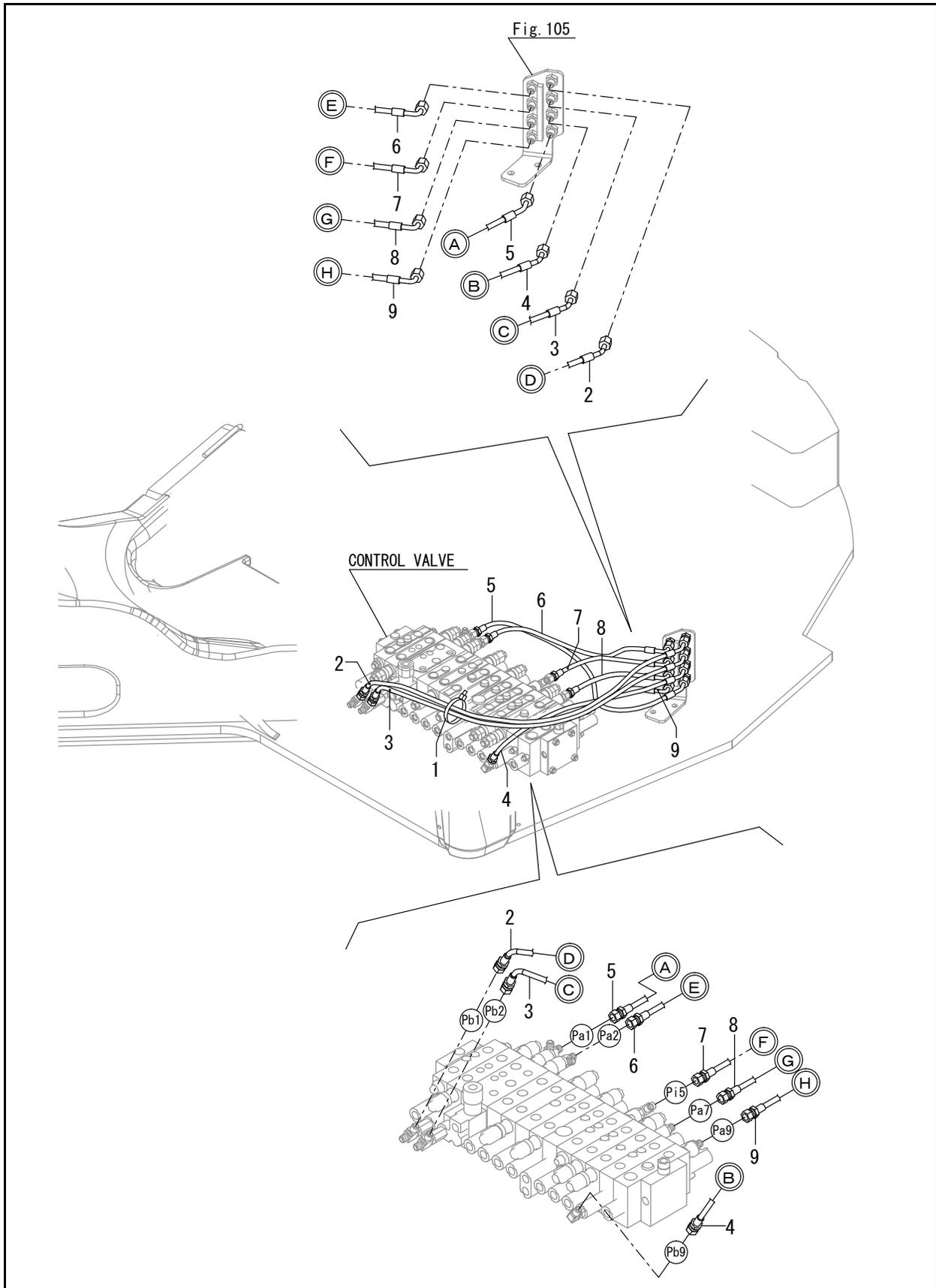


Z80 - COMPACT EXCAVATOR
FIG. 134 - CONTROL PIPING (CONTROL VALVE - SOLENOID VALVE)

Ref.	No.	Part No.	Description	Qty.
	1	50282352	BAND	5
	2	50281981	HOSE H604BB036S	1
	3	50281993	HOSE H104BC034	1
	4	50282025	HOSE F403BC148	1
	5	50282026	HOSE H604BC026	1
	6	50282027	HOSE F403BC059S	1
	7	50282028	HOSE F403BE120S	1
	8	50282030	HOSE F403CC067	1
	9	50282031	HOSE F403BC083	1
	10	50282032	HOSE G804YY115S	1
	11	50282033	HOSE G804YY045S	1
	12	50282034	HOSE G804YY017S	1
	13	50282035	HOSE G804YY034	1
	14	50282037	HOSE H603CE042	1
	15	50282038	HOSE F403CC090	1
	16	50282043	HOSE F403CE027	1
	17	50282044	HOSE F403BE113	1
	18	50282045	HOSE H603CC035	1
	19	50282046	HOSE F403BB117	1
	20	50282047	HOSE H603CC022	1
	21	50282048	HOSE F403CC115	1
	22	50282049	HOSE H603BC026	1
	23	50282050	HOSE F403BB115	1
	24	50282051	HOSE H603BC036	1
	25	50282053	HOSE F403BC042	1
	26	50282054	HOSE F403BC133	1
	27	50282055	HOSE H603BC023	1
	28	50282056	HOSE F403CE135S	1
	29	425-34918	CLAMP 13	8

Z80 - COMPACT EXCAVATOR

FIG. 135 - CONTROL PIPING (CONTROL VALVE - PIPING BRACKET)



Z80 - COMPACT EXCAVATOR
FIG. 135 - CONTROL PIPING (CONTROL VALVE - PIPING BRACKET)

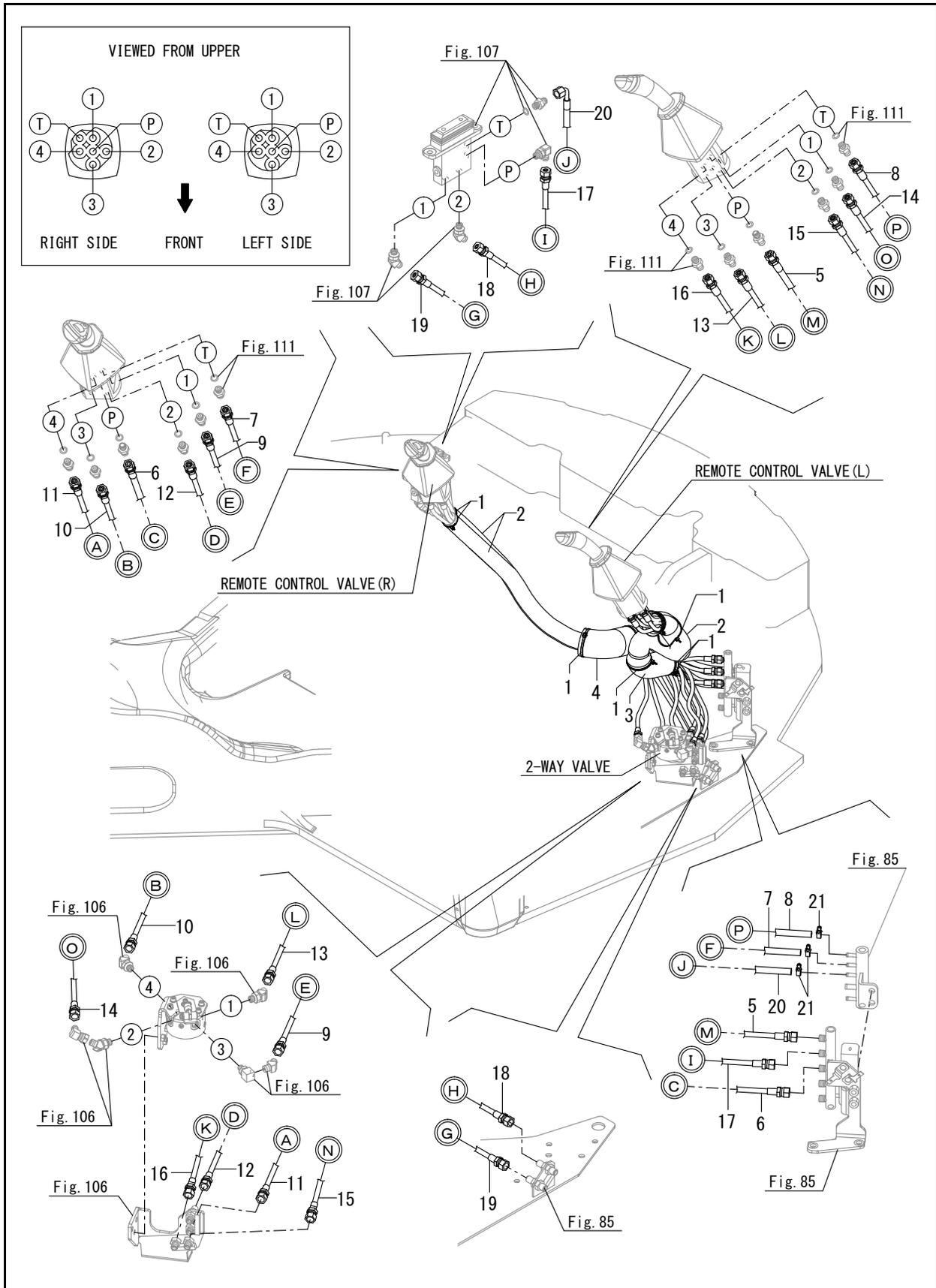
Ref.			
No.	Part No.	Description	Qty.
1	50282352	BAND	1
2	50286505	HOSE	1
3	50286506	HOSE	1
4	50286507	HOSE	1
5	50286508	HOSE	1
6	50286509	HOSE	1
7	50286510	HOSE	1
8	50286511	HOSE	1
9	50286512	HOSE	1

Z80 - COMPACT EXCAVATOR
FIG. 136 - CONTROL PIPING (CONTROL VALVE - 2-WAY VALVE)

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

Z80 - COMPACT EXCAVATOR

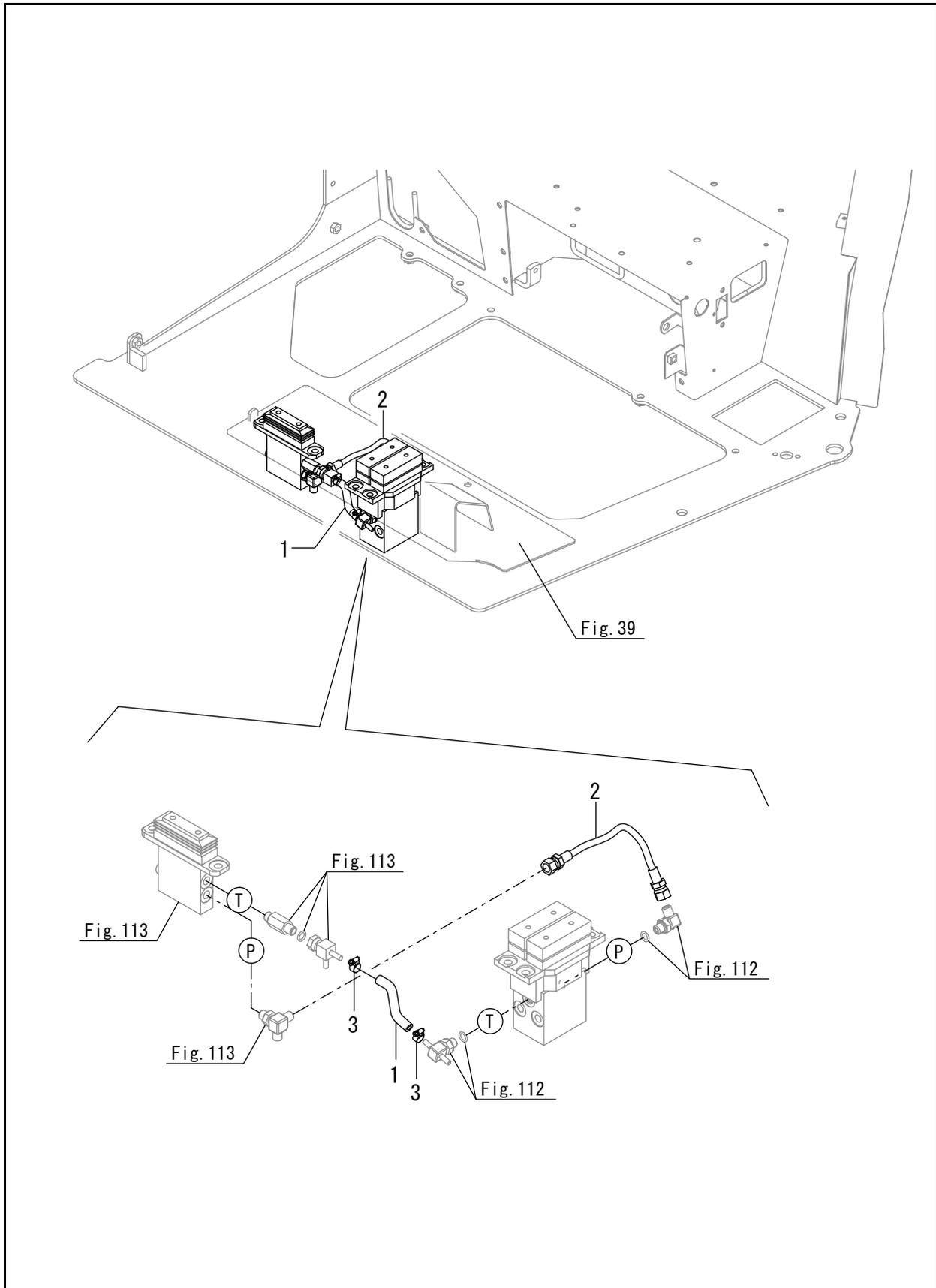
FIG. 137 - CONTROL PIPING (2-WAY VALVE - REMOTE CONTROL VALVE)



Z80 - COMPACT EXCAVATOR
FIG. 137 - CONTROL PIPING (2-WAY VALVE - REMOTE CONTROL VALVE)

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

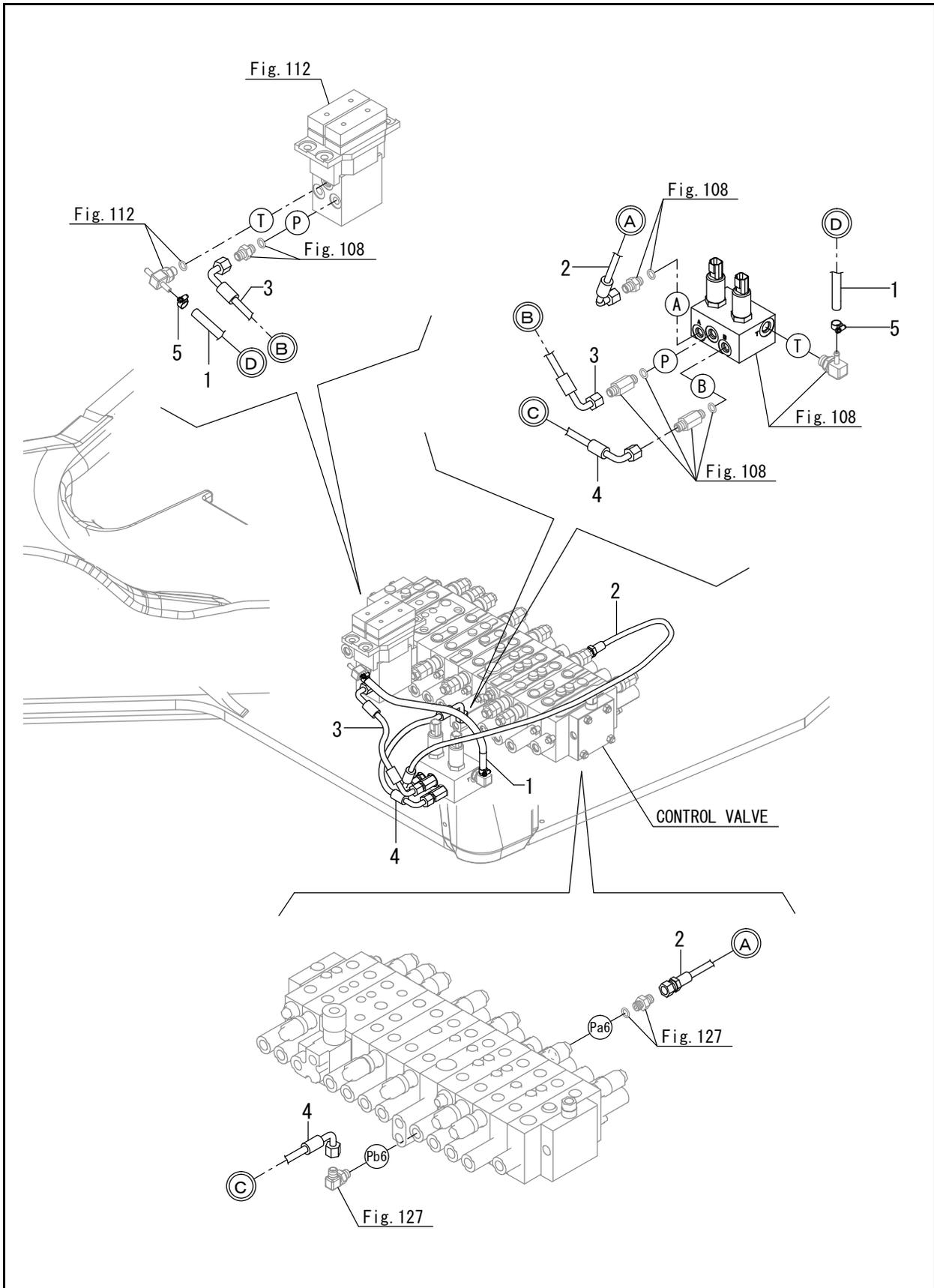
Z80 - COMPACT EXCAVATOR
FIG. 138 - CONTROL PIPING (TRAVEL, SWING PEDAL)



Z80 - COMPACT EXCAVATOR
FIG. 138 - CONTROL PIPING (TRAVEL, SWING PEDAL)

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

Z80 - COMPACT EXCAVATOR
FIG. 139 - CONTROL PIPING (P.T.O.)

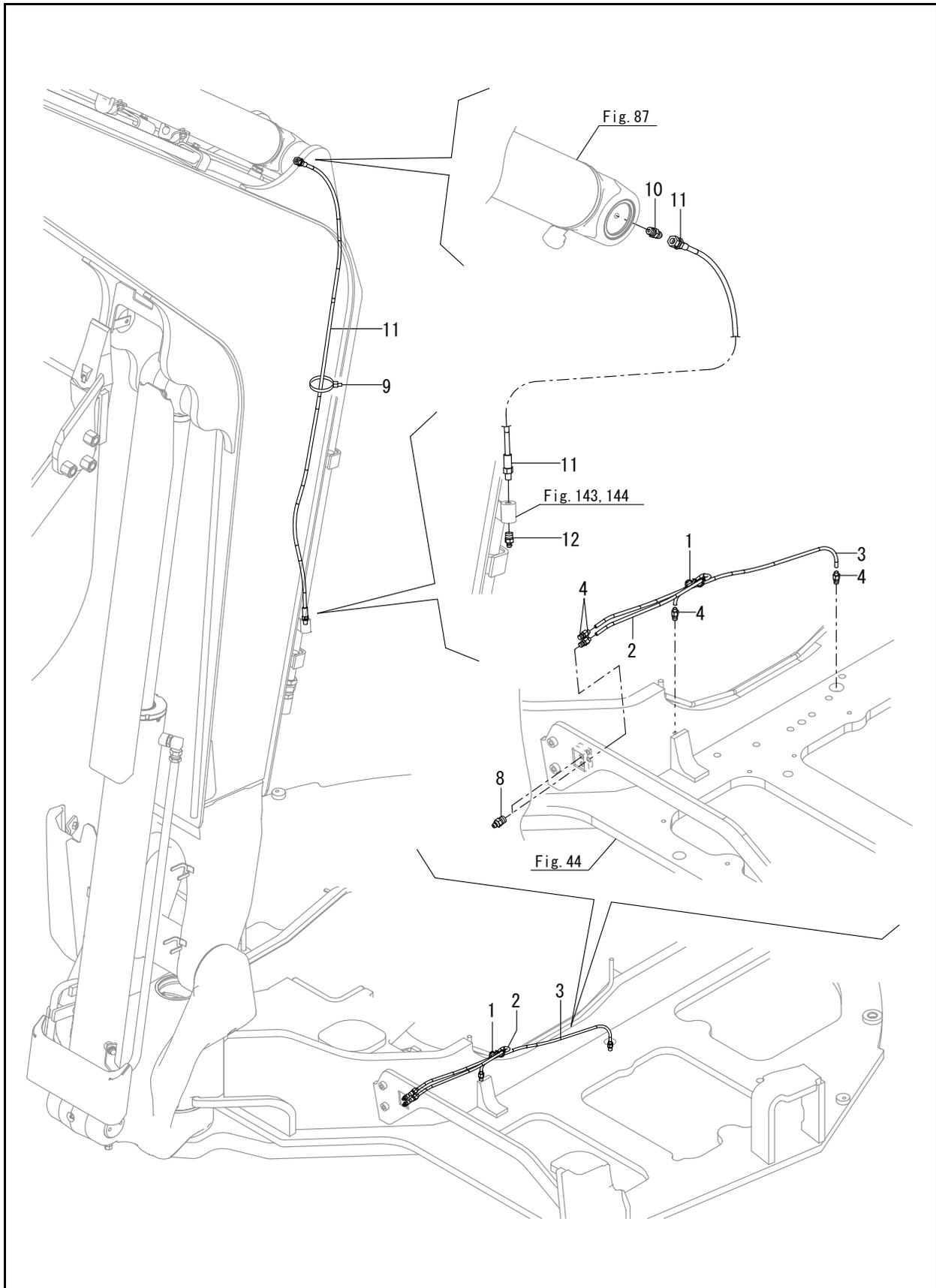


**Z80 - COMPACT EXCAVATOR
FIG. 139 - CONTROL PIPING (P.T.O.)**

Ref.			
No.	Part No.	Description	Qty.
1	50282057	HOSE G804YY036	1
2	50282058	HOSE F403BC105	1
3	50282059	HOSE H603CC023	1
4	50282060	HOSE H603CC030	1
5	425-34918	CLAMP 13	2

Z80 - COMPACT EXCAVATOR

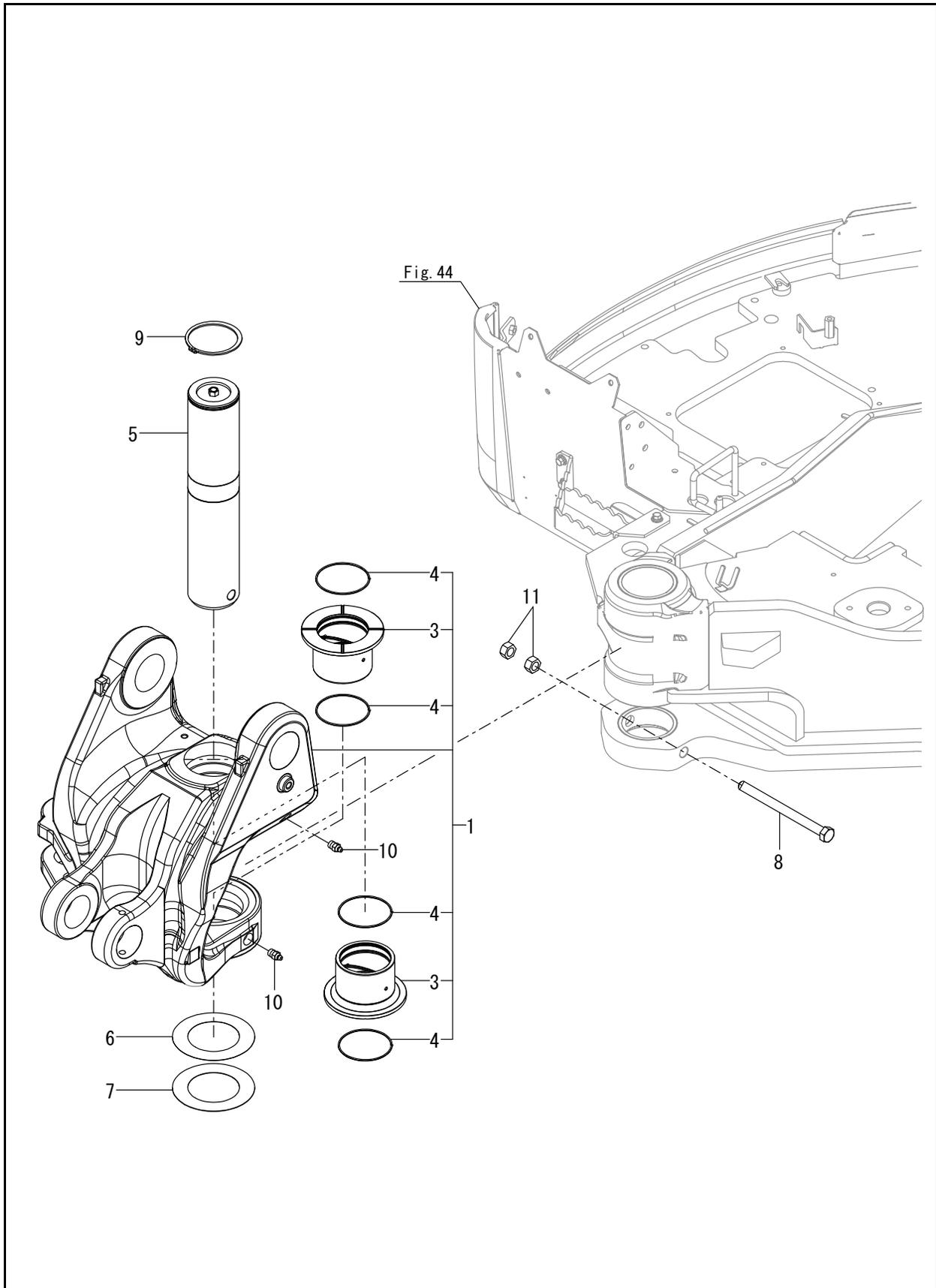
FIG. 140 - GREASING



Z80 - COMPACT EXCAVATOR
FIG. 140 - GREASING

Ref.	No.	Part No.	Description	Qty.
	1	50280802	BAND	1
	2	50282310	HOSE P602YY045	1
	3	50282311	HOSE P602YY075	1
	4	50281493	JOINT,GREASE	4
	8	50282497	NIPPLE PT1/8,GREASE	2
	9	50282352	BAND	1
	10	50280779	JOINT 1/8	1
	11	50282312	HOSE P202AF145	1
	12	50282497	NIPPLE PT1/8,GREASE	1

Z80 - COMPACT EXCAVATOR
FIG. 141 - BOOM BRACKET

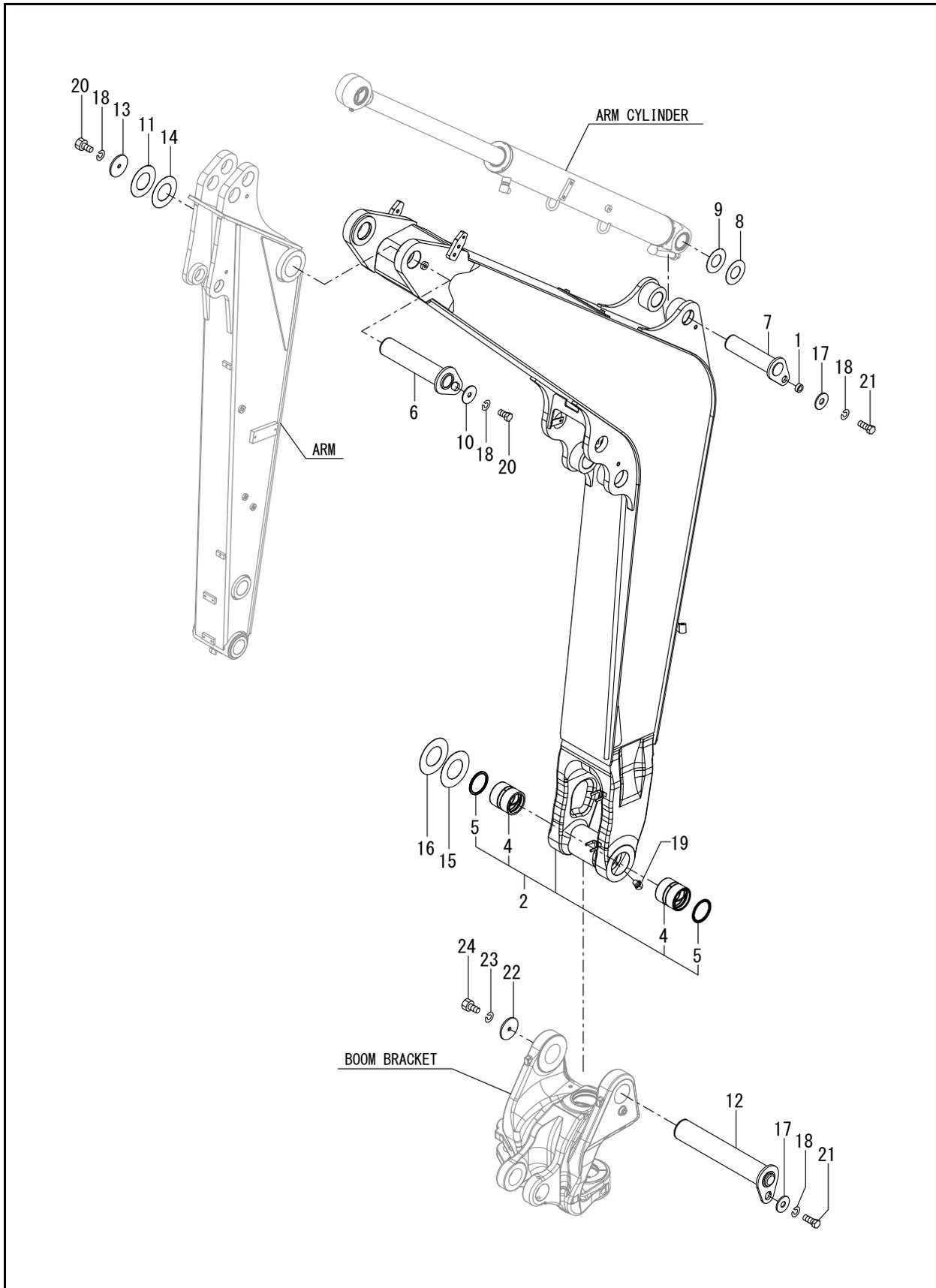


Z80 - COMPACT EXCAVATOR
FIG. 141 - BOOM BRACKET

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

Z80 - COMPACT EXCAVATOR

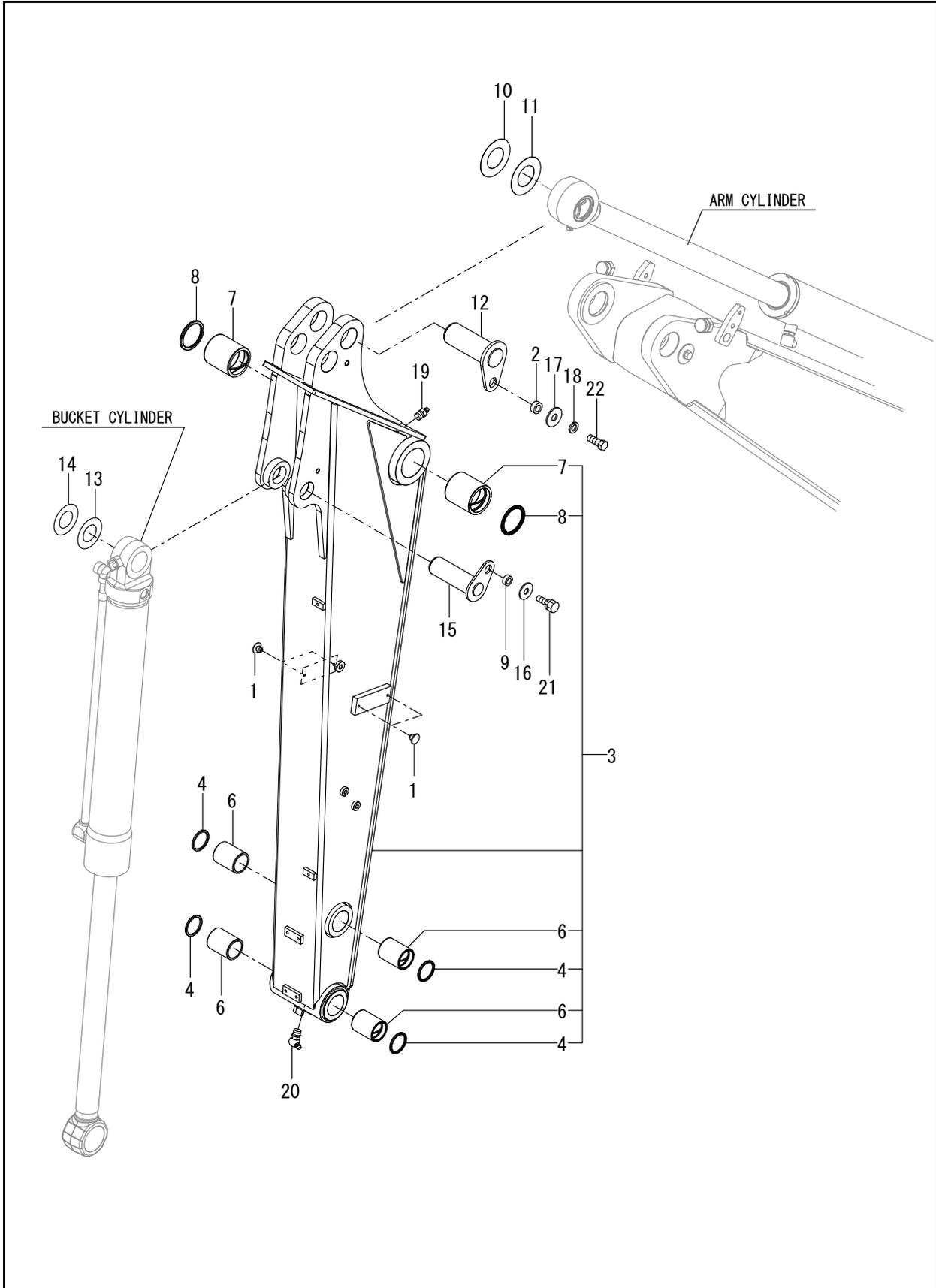
FIG. 143 - BOOM



Z80 - COMPACT EXCAVATOR
FIG. 143 - BOOM

Ref.	No.	Part No.	Description	Qty.
	1	50280845	SPACER	1
	2	50286401	BOOM ASSY (use with label 5A)	1
	4	50281497	BUSH, 80X95 A	2
	5	50280878	SEAL 80X95X5,DUST	2
	5A	50280924	LABEL, BOOM US (see Page 4)	2
	6	50281313	PIN ASSY, 70 X 315	1
	7	50280989	PIN 60X243	1
	8	50281314	SHIM 60X100X0.8	1
	9	50281315	SHIM 60X100X0.5	1
	10	50280991	WASHER	1
	11	50281055	SIMM 70X130X0.8	1
	12	50280993	PIN 80X435	1
	13	50280998	WASHER 15X90X6	1
	14	50280882	SHIM 70X135X0.5	1
	15	50280883	SHIM 80X155X0.5	1
	16	50280884	SHIM 80X150X1.2	1
	17	50282389	WASHER, 14	2
	18	188712	SPRING/WASHER 14	4
	19	50282498	NIPPLE B,GREASE	2
	20	50282566	BOLT M14X 25 PLATED	2
	21	50282567	BOLT M14X 35 PLATED	2
	22	50280998	WASHER 15X90X6	1
	23	188712	SPRING/WASHER 14	1
	24	50282566	BOLT M14X 25 PLATED	1

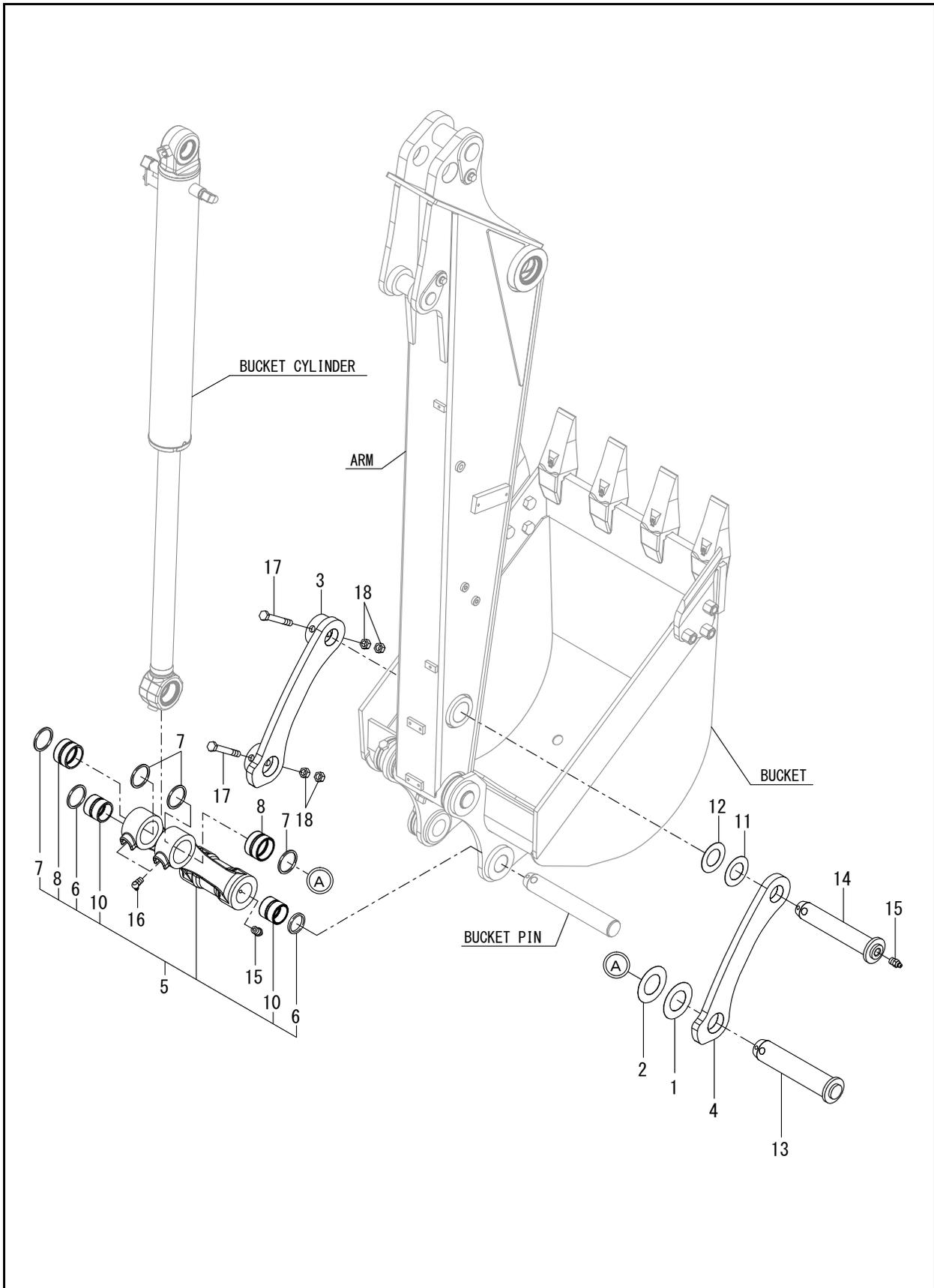
Z80 - COMPACT EXCAVATOR
FIG. 145 - ARM



Z80 - COMPACT EXCAVATOR
FIG. 145 - ARM

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

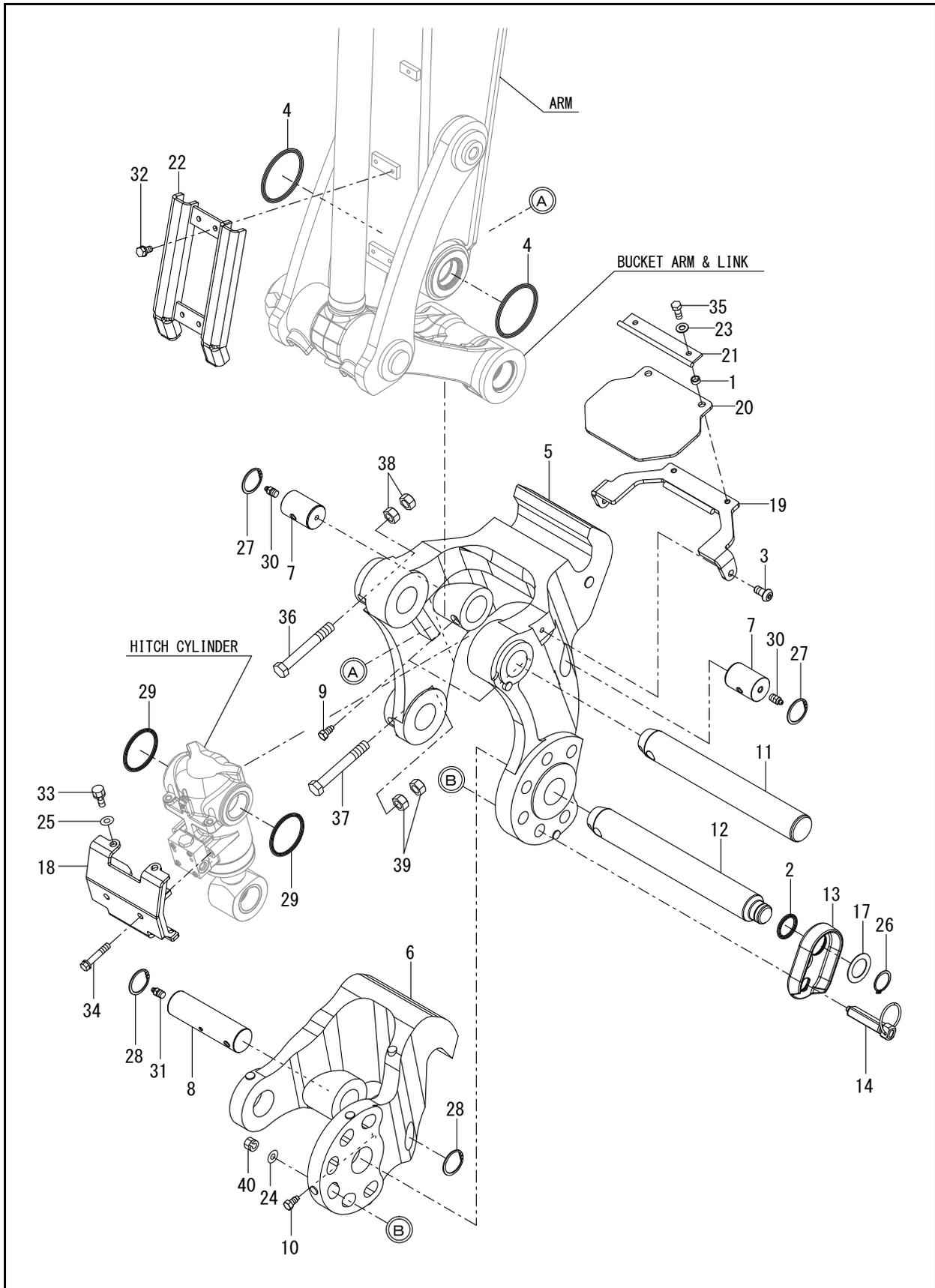
Z80 - COMPACT EXCAVATOR
FIG. 147 - BUCKET ARM & LINK



Z80 - COMPACT EXCAVATOR
FIG. 147 - BUCKET ARM & LINK

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

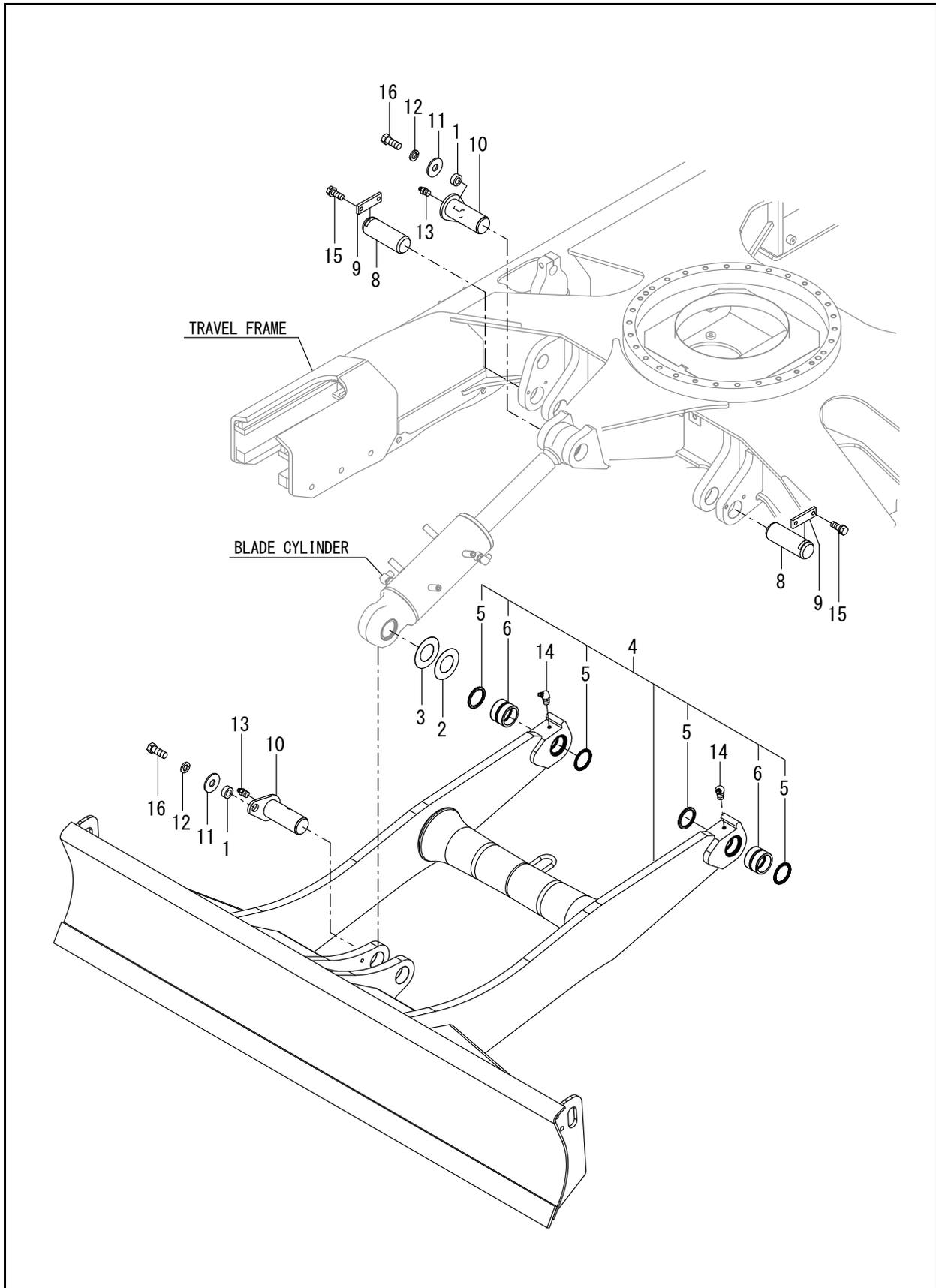
Z80 - COMPACT EXCAVATOR
FIG. 149 - QUICK COUPLER



**Z80 - COMPACT EXCAVATOR
FIG. 149 - QUICK COUPLER**

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

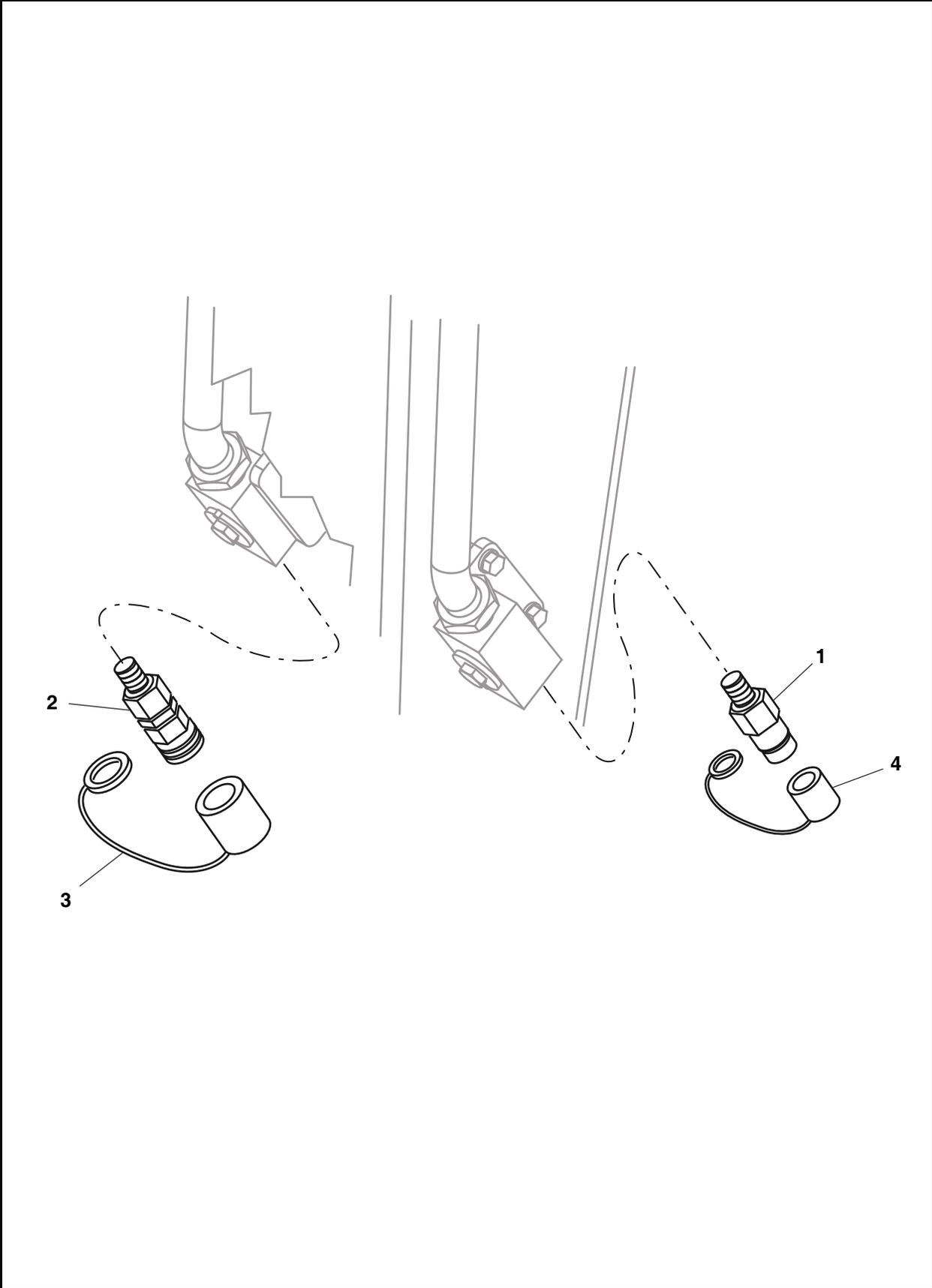
Z80 - COMPACT EXCAVATOR
FIG. 152 - BLADE



Z80 - COMPACT EXCAVATOR
FIG. 152 - BLADE

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

**Z80 - COMPACT EXCAVATOR
HYDRAULIC QUICK-CONNECT COUPLERS**



Z80 - COMPACT EXCAVATOR HYDRAULIC QUICK-CONNECT COUPLERS

Ref.	No.	Part No.	Description	Qty.
	1	50300980	COUPLER/MALE BSPT12	1
	2	50300987	COUPLER/FEMALE BSPT12	1
	3	50301565	COVER/DUST FEMALE 12	1
	4	50301563	COVER/DUST MALE 12	1

NOTE: See Page 242 for related components.

**Z80 - COMPACT EXCAVATOR
NOTES**

Index

C

Compact Excavator 1

F

Figure Index (1) - Main Parts 2
 Figure Index (2) - Hydraulic Section 3
 Fig. 1 - Label 4
 Fig. 3 - Safety Label 6
 Fig. 4 - Muffler 8
 Fig. 5 - Air Cleaner 10
 Fig. 6 - Accelerator 12
 Fig. 7 - Engine Mount 14
 Fig. 8 - Radiator 16
 Fig. 9 - Radiator Mount 18
 Fig. 10 - Radiator Sub-Tank 20
 Fig. 11 - Fuel Tank 22
 Fig. 12 - Fuel Line 24
 Fig. 13 - Electric Part (Engine) 26
 Fig. 14 - Electric Part (Control Valve Plate) 28
 Fig. 15 - Electric Part (Battery) 30
 Fig. 16 - Electric Part (Starting Switch) 32
 Fig. 17 - Electric Part (Air Conditioner) 34
 Fig. 18 - Electric Part (Switch Box Quick Coupler) 36
 Fig. 19 - Electric Part (Seat Mount) 38
 Fig. 20 - Travel Alarm 40
 Fig. 21 - Electric Part (Work Lamp) 42
 Fig. 22 - Electric Part (Indicator Box) 44
 Fig. 23 - Air Conditioner (Cabin Related) 46
 Fig. 24 - Air Conditioner (Piping) 48
 Fig. 25 - Air Conditioner (Unit Inner Parts) 50
 Fig. 26 - Air Conditioner (Engine Related) 52
 Fig. 27 - Air Conditioner (Condenser Related) 54
 Fig. 28 - Air Conditioner (Condenser Inner Parts) 56
 Fig. 29 - Sprocket 58
 Fig. 30 - Idler & Adjust 60
 Fig. 31 - Track Roller 62
 Fig. 32 - Carrier Roller 64
 Fig. 33 - Crawler Adjust 66
 Fig. 34 - Crawler 68
 Fig. 35 - Control Equipment (Travel) 70

Fig. 36 - Control Equipment (Blade) 72
 Fig. 37 - Control Equipment (Swing) 74
 Fig. 38 - Control Equipment (Lock Lever & Lever Stand) 76
 Fig. 39 - Control Equipment (Pedal Stand) 78
 Fig. 40 - Arm Rest 80
 Fig. 41 - Track Frame 82
 Fig. 42 - Crawler Guard 84
 Fig. 43 - Counterweight 86
 Fig. 44 - Turning Frame 88
 Fig. 45 - Turning Bearing 90
 Fig. 46 - Cover (Fuel Tank Side) 92
 Fig. 48 - Cover (Center) 94
 Fig. 50 - Cover (Tail) 96
 Fig. 51 - Cover (Seat Mount A/C) 98
 Fig. 52 - Cover (Seat Mount) 100
 Fig. 53 - Cover (Seat Mount Rear) 102
 Fig. 54 - Cover (Travel Frame) 104
 Fig. 55 - Cover (Turning Frame) 106
 Fig. 56 - Frame Guard 108
 Fig. 57 - Floor Mat 110
 Fig. 58 - Instrument Panel 112
 Fig. 59 - Lever Box 114
 Fig. 60 - Side Cover 116
 Fig. 61 - Seat Slide 120
 Fig. 62 - Seat Mount 122
 Fig. 63 - Bonnet (Upper, Front) 124
 Fig. 64 - Bonnet (Rear) 126
 Fig. 66 - Bonnet (Side Left) 128
 Fig. 68 - Bonnet (Side Right) 130
 Fig. 70 - Cabin Mount (Bracket) 132
 Fig. 71 - Cabin Mount (Antivibration Mount) 134
 Fig. 72 - Cabin (Body) 136
 Fig. 73 - Cabin (Door) 138
 Fig. 74 - Cabin (Front Window 1) 140
 Fig. 75 - Cabin (Front Window 2) 142
 Fig. 76 - Cabin (Window Sash & Lower Glass) 144
 Fig. 77 - Cabin (Electric) 146
 Fig. 78 - Cabin (Washer Tank) 148
 Fig. 79 - Rear View Mirror 150
 Fig. 80 - Cabin Accessory 152
 Fig. 81 - Side Mirror 154
 Fig. 83 - Pump Mount 156
 Fig. 84 - Hyd. Oil Pump 158

Index

Fig. 85 - Control Valve Plate	160	Fig. 124 - Hyd. Oil Piping (Track Frame)	236
Fig. 86 - Boom Cylinder	162	Fig. 125 - Hyd. Oil Piping (Boom)	238
Fig. 87 - Arm Cylinder	164	Fig. 127 - Hyd. Oil Piping (P.T.O. Frame End)	240
Fig. 88 - Bucket Cylinder	166	Fig. 128 - Hyd. Oil Piping (P.T.O. Arm End)	242
Fig. 89 - Swing Cylinder	168	Fig. 130 - Hyd. Oil Piping (Quick Coupler)	244
Fig. 90 - Blade Cylinder	170	Fig. 132 - Hyd. Oil Piping (Hold Valve)	246
Fig. 91 - Hitch Cylinder	172	Fig. 134 - Control Piping (Control Valve - Solenoid Valve)	248
Fig. 92 - Travel Motor	174	Fig. 135 - Control Piping (Control Valve - Piping Bracket)	250
Fig. 93 - Turning Motor	176	Fig. 136 - Control Piping (Control Valve - 2-Way Valve)	252
Fig. 94 - Accumulator	178	Fig. 137 - Control Piping (2-Way Valve - Remote Control Valve)	254
Fig. 95 - Line Filter	180	Fig. 138 - Control Piping (Travel, Swing Pedal)	256
Fig. 96 - Swivel Joint	182	Fig. 139 - Control Piping (P.T.O.)	258
Fig. 97 - Control Valve (1/8)	184	Fig. 140 - Greasing	260
Fig. 98 - Control Valve (2/8)	186	Fig. 141 - Boom Bracket	262
Fig. 99 - Control Valve (3/8)	188	Fig. 143 - Boom	264
Fig. 100 - Control Valve (4/8)	190	Fig. 145 - Arm	266
Fig. 101 - Control Valve (5/8)	192	Fig. 147 - Bucket Arm & Link	268
Fig. 102 - Control Valve (6/8)	194	Fig. 149 - Quick Coupler	270
Fig. 103 - Control Valve (7/8)	196	Fig. 152 - Blade	272
Fig. 104 - Control Valve (8/8)	198		
Fig. 105 - Standard Piping Bracket	200	H	
Fig. 106 - 2-Way Valve	202	Hydraulic Quick-Connect Couplers	274
Fig. 107 - Blade Valve	204	I	
Fig. 108 - Solenoid Valve (P.T.O.)	206	Introduction	i
Fig. 109 - Solenoid Valve (Pilot)	208	S	
Fig. 110 - Solenoid Valve (Quick Coupler)	210	Seat	118
Fig. 111 - Remote Control Valve (Operation)	212	Special Tools, Paint	1
Fig. 112 - Remote Control Valve (Travel)	214	T	
Fig. 113 - Remote Control Valve (Swing)	216	Table of Contents	I
Fig. 114 - Hyd. Oil Tank	218		
Fig. 115 - Hold Valve (Boom)	220		
Fig. 116 - Hold Valve (Arm)	222		
Fig. 117 - Hyd. Oil Piping (Pump - Control Valve - Oil Cooler)	224		
Fig. 118 - Hyd. Oil Piping (Tank-Pump, Swing Cylinder)	226		
Fig. 119 - Hyd. Oil Piping (Control Valve - Turning Motor)	228		
Fig. 120 - Hyd. Oil Piping (Control Valve Fitting)	230		
Fig. 121 - Hyd. Oil Piping (Control Valve - Boom, Turning Motor, Tank)	232		
Fig. 123 - Hyd. Oil Piping (Control Valve - Swivel Joint)	234		

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
102027	5	5	186593	31	5	193206	39	26
138110	15	15	186593	39	34	195348	1	10
138111	25	40	186593	49	21	197319	27	27
138111	25	41	186593	81	6	197319	39	29
138111	47	40	186593	125	26	197662	27	26
138111	53	26	186593	125	31	197663	39	31
138111	55	23	186593	153	3	197782	71	5
138111	79	5	186610	185	20	197813	211	7
138111	107	9	186610	187	16	197868	5	46
138111	155	6	186610	189	43	203047	119	1E
138111	219	34	186610	191	10	270811	1	13
138111	221	36	186610	191	22	272806	1	11
138111	239	14	186610	193	12	272809	1	12
138111	239	15	186610	193	27	272812	1	14
138111	239	22	186610	195	13	272813	1	15
138111	271	24	186610	195	35	272814	1	16
138111	271	25	186610	197	30	272815	1	17
138133	53	36	186610	199	15	272816	1	18
138135	53	37	186610	199	27	50280724	23	29
138143	27	44	186619	99	4	50280727	11	3
138515	203	10	186619	107	11	50280728	17	3
167754	1	20	186619	107	12	50280729	21	8
167755	1	22	186619	107	13	50280735	39	30
167788	1	19	186619	107	14	50280736	11	5
167789	1	21	186619	107	15	50280739	53	22
176152	77	17	186619	107	16	50280740	53	24
176152	143	25	186619	107	17	50280743	21	1
181878	11	4	186626	39	43	50280744	163	8
184069	5	4	188712	61	16	50280744	163	13
184467	1	1	188712	163	51	50280745	163	5
184472	1	3	188712	169	45	50280746	163	24
184473	1	4	188712	245	33	50280747	163	6
184474	1	5	188712	265	18	50280748	163	25
184475	1	6	188712	265	23	50280748	171	8
186340	25	28	188712	267	18	50280749	167	11
186359	21	3	188712	273	12	50280749	169	29
186361	21	5	188718	49	22	50280749	169	29
186461	21	4	188718	53	27	50280749	169	33
186470	17	8	188723	23	17	50280749	171	21
186483	25	24	193206	35	1	50280749	171	25

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50280749	273	5	50280781	185	26	50280795	165	2
50280750	169	2	50280781	187	3	50280796	177	42
50280751	167	3	50280781	189	3	50280797	5	45
50280751	169	3	50280781	189	5	50280797	7	19
50280752	169	4	50280781	189	11	50280797	11	7A
50280753	167	12	50280781	191	3	50280798	39	1
50280754	169	30	50280781	193	15	50280798	39	2
50280755	169	34	50280781	195	19	50280798	49	1
50280756	169	5	50280781	197	3	50280798	49	2
50280757	169	8	50280781	197	32	50280798	53	1
50280758	169	9	50280781	199	29	50280798	55	1
50280759	169	11	50280782	117	1	50280798	55	2
50280760	171	22	50280782	159	1	50280798	245	17
50280760	171	26	50280783	67	7	50280798	255	1
50280761	171	2	50280784	25	25	50280799	27	14
50280762	171	5	50280785	177	24	50280799	27	15
50280763	171	9	50280786	177	26	50280800	23	2
50280764	171	6	50280787	177	28	50280801	15	12
50280765	163	26	50280788	183	5	50280802	25	22
50280766	169	10	50280789	183	6	50280802	27	17
50280767	169	12	50280790	183	11	50280802	39	16
50280768	169	19	50280791	11	9	50280802	43	2
50280769	171	7	50280791	235	12	50280802	53	2
50280770	171	10	50280792	205	24	50280802	53	3
50280771	171	17	50280792	207	8	50280802	229	28
50280772	245	3	50280792	207	9	50280802	261	1
50280772	247	1	50280792	209	22	50280803	15	14
50280773	31	2	50280792	211	10	50280804	37	18
50280774	15	13	50280792	213	20	50280805	41	7
50280775	219	5	50280792	215	34	50280806	203	21
50280776	219	19	50280792	217	21	50280807	229	2
50280777	219	20	50280792	223	18	50280807	235	1
50280778	165	38	50280792	229	3	50280808	245	7
50280778	223	24	50280792	231	7	50280808	247	2
50280778	229	23	50280792	231	8	50280809	43	4
50280778	231	51	50280792	237	2	50280810	77	3
50280778	237	4	50280792	241	1	50280811	173	2
50280779	261	10	50280793	77	6	50280812	159	29
50280780	193	4	50280793	271	2	50280813	205	25
50280780	197	20	50280794	127	16	50280813	209	24

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50280813	215	35	50280839	187	5	50280851	15	7
50280813	221	20	50280839	189	7	50280852	15	8
50280813	231	23	50280839	191	5	50280853	15	9
50280813	241	7	50280839	191	14	50280854	23	24
50280814	163	37	50280839	193	2	50280855	129	3
50280814	165	35	50280839	193	17	50280856	43	3
50280814	167	32	50280839	195	3	50280857	55	9
50280814	171	30	50280839	195	25	50280858	67	5
50280814	221	27	50280839	197	5	50280859	67	6
50280814	223	19	50280839	197	18	50280860	61	15
50280814	229	17	50280839	199	5	50280861	91	5
50280814	231	45	50280839	199	19	50280862	123	6
50280814	231	48	50280840	185	13	50280863	105	1
50280815	229	20	50280840	187	9	50280864	163	2
50280816	235	2	50280840	189	28	50280865	95	24
50280816	237	3	50280840	191	8	50280866	177	19
50280817	19	19	50280840	191	18	50280867	177	3
50280817	95	17	50280840	193	7	50280868	177	4
50280818	173	3	50280840	193	20	50280869	177	5
50280819	173	19	50280840	195	6	50280870	177	29
50280820	159	80	50280840	195	28	50280871	177	31
50280821	159	81	50280840	197	8	50280872	165	32
50280822	207	6	50280840	197	22	50280873	165	33
50280823	169	36	50280840	199	8	50280874	219	2
50280823	171	28	50280840	199	23	50280875	231	26
50280824	241	20	50280841	161	4	50280876	229	16
50280827	19	20	50280841	201	2	50280877	273	6
50280828	177	27	50280841	203	20	50280878	265	5
50280829	159	73	50280842	241	4	50280879	267	7
50280830	159	68	50280843	231	31	50280880	163	10
50280831	183	2	50280844	229	1	50280880	163	16
50280832	183	3	50280845	163	1	50280880	267	8
50280833	183	4	50280845	265	1	50280881	271	4
50280834	183	10	50280845	267	2	50280882	265	14
50280835	225	14	50280845	273	1	50280883	265	15
50280835	231	37	50280846	5	43	50280884	265	16
50280836	177	25	50280847	125	10	50280885	273	8
50280837	173	12	50280848	41	8	50280886	169	44
50280838	167	7	50280849	203	3	50280886	273	9
50280839	185	10	50280850	181	5	50280887	31	3

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50280888	65	3	50280910	269	1	50280941	85	1
50280889	95	18	50280910	273	2	50280942	85	2
50280889	125	11	50280911	169	40	50280943	87	2
50280889	127	17	50280911	267	11	50280944	89	4
50280890	231	41	50280911	269	2	50280945	95	1
50280891	231	42	50280911	273	3	50280945	101	17
50280892	267	9	50280912	95	23	50280946	105	2
50280893	15	11	50280913	231	34	50280947	47	36
50280894	77	12	50280915	163	45	50280947	113	2
50280895	77	13	50280916	163	46	50280947	115	3
50280896	77	14	50280917	5	25	50280948	37	19
50280898	241	21	50280918	221	23	50280949	127	11
50280899	267	13	50280919	207	12	50280950	127	13
50280899	269	11	50280919	217	22	50280951	123	18
50280900	267	14	50280919	231	32	50280952	157	1
50280900	269	12	50280920	223	26	50280953	157	4
50280901	269	7	50280920	233	22	50280954	163	43
50280902	233	2	50280920	239	34	50280955	159	16
50280903	233	4	50280921	25	1	50280956	159	17
50280904	129	7	50280922	23	22	50280957	159	18
50280905	203	24	50280923	211	12	50280958	159	19
50280905	205	22	50280924	5	44	50280959	219	3
50280905	211	8	50280924	7	18	50280960	219	4
50280906	39	8	50280924	265	5A	50280961	183	1
50280907	173	4	50280925	9	2	50280962	193	9
50280908	185	12	50280926	23	28	50280962	197	24
50280908	187	8	50280927	31	1	50280963	185	6
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50280908	193	5	50280930	33	4	50280964	189	36
50280908	193	19	50280931	33	5	50280965	185	30
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50280908	195	27	50280933	39	9	50280966	189	42
50280908	197	7	50280934	53	20	50280967	189	23
50280908	197	21	50280935	61	14	50280968	219	8
50280908	199	7	50280936	79	1	50280969	219	12
50280908	199	21	50280937	79	2	50280970	159	71
50280909	241	28	50280938	79	3	50280971	159	58
50280910	169	39	50280939	71	3	50280972	159	59
50280910	267	10	50280940	71	4	50280973	229	4

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50280974	229	7	50281012	177	16	50281029	5	38
50280975	231	20	50281013	181	4	50281029	5	39
50280976	233	3	50281013	231	4	50281029	7	16
50280977	231	33	50281014	231	9	50281029	7	17
50280978	239	10	50281015	231	11	50281029	95	10C
50280982	239	12	50281017	101	14	50281029	127	9D
50280983	233	15	50281018	5	22	50281030	5	57
50280983	239	26	50281018	7	4	50281030	7	28
50280984	237	12	50281019	5	52	50281030	145	13G
50280985	237	13	50281019	7	23	50281031	5	58
50280986	243	12	50281019	137	33A	50281031	7	29
50280987	267	6	50281020	5	53	50281031	145	13H
50280988	163	47	50281020	7	24	50281032	5	59
50280989	265	7	50281020	145	13D	50281032	7	30
50280990	267	12	50281021	5	27	50281032	145	13I
50280991	169	41	50281021	7	6	50281033	5	60
50280991	265	10	50281021	219	26A	50281033	7	31
50280992	263	5	50281022	5	54	50281033	137	33B
50280993	265	12	50281022	7	25	50281034	5	40
50280994	169	42	50281022	145	13E	50281035	5	41
50280995	263	6	50281023	5	30	50281036	5	61
50280996	263	7	50281023	7	8	50281036	7	32
50280997	263	8	50281023	109	1B	50281036	141	32A
50280998	265	13	50281023	109	5A	50281037	5	62
50280998	265	22	50281024	5	32	50281037	7	33
50280999	269	10	50281024	7	10	50281037	101	22A
50281000	273	10	50281024	19	14B	50281038	5	63
50281001	189	24	50281025	5	56	50281039	5	64
50281002	177	50	50281025	7	27	50281040	203	5
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50281007	209	23	50281027	5	34	50281044	213	12
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50281008	25	38	50281028	5	35	50281046	17	1
50281009	169	25	50281028	7	13	50281047	17	2
50281010	169	26	50281028	95	10A	50281048	23	27
50281011	169	27	50281028	127	9B	50281049	123	2

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281050	121	6	50281078	195	18	50281083	195	32
50281050	239	1	50281079	185	21	50281083	197	13
50281050	239	33	50281079	195	14	50281083	197	27
50281050	245	16	50281080	185	14	50281083	199	12
50281050	267	1	50281080	187	10	50281084	185	18
50281051	127	10	50281080	189	29	50281084	187	14
50281052	39	28	50281080	191	19	50281084	189	33
50281053	167	19	50281080	193	8	50281084	193	25
50281053	169	24	50281080	193	21	50281084	195	11
50281054	167	15	50281080	195	7	50281084	195	33
50281054	169	7	50281080	195	29	50281084	197	14
50281055	265	11	50281080	197	10	50281084	197	28
50281056	25	7	50281080	197	23	50281084	199	13
50281057	47	9	50281080	199	9	50281085	185	19
50281058	153	1	50281081	185	15	50281085	187	15
50281059	55	3	50281081	187	11	50281085	189	34
50281060	23	12	50281081	189	30	50281085	191	21
50281061	167	5	50281081	191	20	50281085	193	11
50281061	267	4	50281081	193	10	50281085	193	26
50281061	269	6	50281081	193	22	50281085	195	12
50281062	177	15	50281081	195	8	50281085	195	34
50281063	177	17	50281081	195	30	50281085	197	15
50281064	177	22	50281081	197	11	50281085	197	29
50281065	11	1	50281081	197	25	50281085	199	14
50281066	59	2	50281081	199	10	50281085	199	25
50281067	59	3	50281081	199	24	50281086	199	26
50281068	61	8	50281082	185	16	50281087	189	35
50281069	61	9	50281082	187	12	50281088	189	38
50281070	61	10	50281082	189	31	50281089	189	39
50281071	77	11	50281082	193	23	50281090	189	40
50281072	87	3	50281082	195	9	50281091	189	41
50281073	271	3	50281082	195	31	50281092	189	14
50281074	97	1	50281082	197	12	50281093	189	15
50281075	185	22	50281082	197	26	50281094	189	16
50281075	195	15	50281082	199	11	50281095	189	17
50281076	185	23	50281083	185	17	50281096	189	18
50281076	195	16	50281083	187	13	50281097	189	19
50281077	185	24	50281083	189	32	50281098	189	20
50281077	195	17	50281083	193	24	50281099	189	21
50281078	185	25	50281083	195	10	50281100	189	22

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281101	189	25	50281151	213	6	50281194	63	4
50281102	185	27	50281151	213	15	50281195	67	3
50281102	195	20	50281152	213	7	50281196	67	4
50281103	219	14	50281152	213	16	50281197	163	15
50281104	219	15	50281153	213	8	50281198	163	11
50281105	233	1	50281153	213	17	50281199	163	21
50281106	213	21	50281154	213	9	50281200	179	1
50281107	221	12	50281154	213	18	50281201	179	2
50281107	223	12	50281165	241	17	50281202	185	11
50281108	215	29	50281172	5	12	50281202	187	7
50281108	221	13	50281172	7	1	50281202	189	8
50281108	223	13	50281172	109	1A	50281202	191	15
50281109	269	8	50281173	5	20	50281202	193	3
50281125	269	13	50281174	5	48	50281202	193	18
50281126	269	14	50281174	7	20	50281202	195	4
50281127	39	3	50281174	145	13A	50281202	195	26
50281128	87	4	50281175	5	49	50281202	197	6
50281129	159	83	50281176	5	23	50281202	197	19
50281130	5	21	50281176	7	5	50281202	199	6
50281131	23	13	50281176	267	8A	50281202	199	20
50281132	147	10	50281177	5	50	50281203	187	6
50281133	47	2	50281177	7	21	50281204	185	5
50281134	123	3	50281177	145	13B	50281204	199	2
50281135	123	5	50281178	5	51	50281205	199	3
50281136	83	2	50281178	7	22	50281206	179	3
50281137	55	13	50281178	145	13C	50281207	175	31
50281138	17	19	50281179	37	2	50281208	175	38
50281139	17	20	50281181	5	29	50281209	175	10
50281140	47	35	50281181	7	7	50281209	175	40
50281141	127	2	50281181	267	8B	50281210	175	55
50281142	127	3	50281182	33	10	50281211	175	63
50281143	127	14	50281182	41	4	50281211	175	64
50281144	267	15	50281183	61	3	50281212	175	5
50281145	25	23	50281184	61	5	50281213	175	6
50281146	133	9	50281185	61	6	50281214	175	13
50281147	5	28	50281186	61	7	50281215	175	14
50281148	5	8	50281187	63	1	50281216	175	15
50281149	5	26	50281190	63	5	50281217	175	17
50281150	213	5	50281192	63	6	50281218	175	74
50281150	213	14	50281193	63	7	50281219	39	20

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281220	69	27	50281258	177	45	50281298	175	65
50281221	189	9	50281259	177	46	50281299	175	66
50281222	189	12	50281260	177	48	50281300	175	67
50281223	189	13	50281261	177	49	50281301	175	68
50281224	49	20	50281262	177	39	50281302	175	69
50281225	231	12	50281263	177	40	50281303	175	70
50281226	209	28	50281264	177	74	50281304	175	71
50281226	217	24	50281265	177	14	50281305	175	72
50281227	19	3	50281266	157	3	50281306	175	73
50281228	53	5	50281267	159	14	50281307	225	9
50281229	159	3	50281268	159	22	50281308	229	11
50281230	159	4	50281269	159	31	50281310	229	13
50281231	159	5	50281270	159	40	50281311	237	16
50281232	159	6	50281271	159	49	50281312	225	33
50281233	159	7	50281272	159	15	50281313	265	6
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50281240	177	6	50281280	159	55	50281319	231	5
50281241	177	7	50281281	159	56	50281320	241	18
50281242	177	8	50281282	159	43	50281321	45	3
50281243	177	9	50281283	159	44	50281322	123	4
50281244	177	10	50281284	159	45	50281323	143	2
50281245	177	11	50281285	159	46	50281324	149	2
50281246	177	12	50281286	159	47	50281325	149	3
50281247	177	13	50281287	159	48	50281326	147	2
50281248	177	30	50281288	163	19	50281327	137	4
50281249	177	32	50281289	167	31	50281328	145	6
50281250	177	33	50281290	175	36	50281329	139	28
50281251	177	34	50281291	175	56	50281330	149	4
50281252	177	35	50281292	175	57	50281331	141	2
50281253	177	36	50281293	175	58	50281332	139	29
50281254	177	37	50281294	175	59	50281332	139	30
50281255	177	38	50281295	175	60	50281332	139	31
50281256	177	43	50281296	175	61	50281332	147	3
50281257	177	44	50281297	175	62	50281333	139	2

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281334	137	5	50281366	37	9	50281416	221	3
50281334	139	3	50281367	37	10	50281416	223	3
50281334	141	3	50281368	37	11	50281417	221	4
50281334	141	4	50281369	37	12	50281417	223	4
50281334	143	3	50281370	37	13	50281418	221	5
50281334	147	4	50281371	37	14	50281418	223	5
50281335	139	4	50281372	37	15	50281419	221	6
50281336	147	5	50281373	113	4	50281419	223	6
50281337	139	23	50281373	113	5	50281420	221	7
50281338	139	24	50281374	173	22	50281420	223	7
50281339	139	25	50281375	173	23	50281421	221	8
50281340	137	7	50281377	245	20	50281421	223	8
50281340	141	31	50281378	271	17	50281422	221	9
50281341	139	26	50281379	73	1	50281422	223	9
50281342	19	5	50281380	167	9	50281423	221	10
50281343	189	10	50281381	167	20	50281423	223	10
50281344	209	27	50281382	173	1	50281424	221	18
50281345	221	24	50281384	173	8	50281425	5	36
50281346	27	8	50281385	173	11	50281425	5	37
50281346	55	6	50281386	173	7	50281425	7	14
50281347	159	79	50281387	173	14	50281425	7	15
50281348	159	78	50281388	245	1	50281425	95	10B
50281349	65	2	50281391	245	19	50281425	127	9C
50281350	209	21	50281395	271	7	50281426	203	2
50281350	237	1	50281396	271	8	50281427	203	8
50281351	127	15	50281397	271	9	50281428	203	9
50281352	203	26	50281397	271	10	50281458	5	17
50281353	181	1	50281398	271	11	50281458	7	2
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50281355	181	3	50281401	271	14	50281459	5	18
50281356	207	1	50281402	271	18	50281459	7	3
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50281358	207	3	50281407	5	15	50281460	81	2
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50281360	207	5	50281412	163	12	50281462	81	4
50281361	5	14	50281413	241	2	50281464	125	3
50281362	37	1	50281414	151	1	50281465	209	11
50281363	271	1	50281414	155	2	50281465	211	4
50281364	37	7	50281415	221	2	50281466	209	12
50281365	37	8	50281415	223	2	50281467	209	13

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281469	205	4	50281485	217	19	50281524	175	42
50281469	217	3	50281486	205	21	50281525	175	43
50281470	205	5	50281486	215	28	50281526	175	44
50281470	217	4	50281486	217	20	50281527	175	45
50281471	205	6	50281487	207	10	50281528	175	46
50281471	215	9	50281488	231	22	50281529	175	47
50281471	217	5	50281489	231	29	50281530	175	48
50281472	205	7	50281490	215	38	50281531	175	49
50281472	217	6	50281490	231	35	50281532	175	50
50281473	205	8	50281491	231	38	50281533	175	51
50281473	217	7	50281492	217	23	50281534	175	11
50281474	205	9	50281492	231	40	50281535	175	12
50281474	215	20	50281493	261	4	50281536	175	85
50281474	217	8	50281496	229	5	50281537	225	6
50281475	205	10	50281497	265	4	50281538	115	1
50281475	215	21	50281498	5	42	50281539	115	2
50281475	217	9	50281499	39	22	50281540	113	1
50281476	205	11	50281500	5	13	50281541	117	2
50281476	217	10	50281501	27	16	50281542	117	3
50281477	205	12	50281502	27	7	50281543	5	11
50281477	217	11	50281503	45	1	50281545	5	16
50281478	205	13	50281504	39	24	50281546	5	47
50281478	217	12	50281506	175	2	50281547	5	19
50281479	205	14	50281507	175	21	50281548	5	24
50281479	215	24	50281508	175	22	50281551	5	31
50281479	217	13	50281509	175	23	50281551	7	9
50281480	205	15	50281510	175	24	50281551	19	14A
50281480	217	14	50281511	175	25	50281555	11	7
50281481	205	16	50281512	175	26	50281556	13	1
50281481	215	25	50281513	175	27	50281557	13	7
50281481	217	15	50281514	175	28	50281558	13	3
50281482	205	17	50281515	175	29	50281559	13	4
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50281482	217	16	50281517	175	32	50281561	13	6
50281483	205	18	50281518	175	33	50281562	15	2
50281483	217	17	50281519	175	34	50281563	15	3
50281484	205	19	50281520	175	35	50281564	15	4
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50281485	205	20	50281522	175	39	50281566	17	5
50281485	215	27	50281523	175	41	50281567	19	13

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281568	95	3	50281610	47	4	50281648	77	2
50281568	95	14	50281611	47	7	50281649	77	7
50281569	23	3	50281612	53	16	50281650	77	8
50281570	23	9	50281613	53	17	50281652	77	9
50281571	23	23	50281614	53	18	50281653	77	10
50281572	23	14	50281615	53	19	50281654	91	4
50281573	23	26	50281616	53	21	50281655	91	6
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50281575	25	5	50281618	47	12	50281657	101	5
50281576	23	35	50281619	47	13	50281658	103	3
50281577	23	37	50281620	47	19	50281659	101	10
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50281580	23	42	50281624	47	17	50281664	107	1
50281581	23	43	50281625	47	18	50281665	107	3
50281582	25	6	50281626	47	25	50281666	107	6
50281583	25	17	50281627	47	22	50281667	19	11
50281584	27	1	50281628	47	23	50281667	93	3
50281585	29	1	50281629	49	9	50281668	93	4
50281586	55	4	50281629	55	15	50281669	95	9
50281587	27	19	50281630	47	24	50281671	93	6
50281588	27	20	50281631	47	27	50281672	125	1
50281589	27	9	50281632	49	10	50281673	111	1
50281590	39	19	50281632	51	1	50281674	111	2
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Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281690	135	1	50281731	141	1	50281770	147	7
50281691	135	2	50281732	141	5	50281771	147	8
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50281729	139	21	50281768	145	12	50281808	139	35
50281730	139	22	50281769	147	6	50281809	139	36

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281810	139	37	50281857	195	24	50281899	177	58
50281811	139	38	50281858	195	1	50281900	177	18
50281812	139	39	50281859	195	2	50281901	177	59
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50281844	137	24	50281890	171	24	50281928	211	1
50281845	137	25	50281891	171	33	50281929	211	2
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50281853	155	4	50281897	177	47	50281933	205	2
50281856	195	23	50281898	177	55	50281933	217	1

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50281934	205	3	50281985	229	32	50282025	249	4
50281934	217	2	50281986	229	33	50282026	249	5
50281935	215	16	50281987	239	27	50282027	249	6
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50281940	213	2	50281992	235	8	50282032	249	10
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50281942	213	11	50281994	235	9	50282034	249	12
50281943	213	19	50281995	235	10	50282035	249	13
50281944	219	7	50281996	233	12	50282036	257	1
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50281952	225	10	50282004	255	2	50282041	247	9
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50281960	239	8	50282006	255	4	50282044	249	17
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50281968	161	9	50282008	239	31	50282046	249	19
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50281971	221	34	50282011	255	7	50282049	249	22
50281972	221	35	50282012	255	8	50282050	249	23
50281972	239	21	50282013	255	9	50282051	249	24
50281973	223	22	50282014	255	10	50282052	257	2
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50281975	223	25	50282016	255	12	50282054	249	26
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50281979	227	4	50282018	255	14	50282056	249	28
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50281985	229	31	50282024	255	20	50282062	247	11

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282063	247	12	50282108	17	15	50282148	55	14
50282064	247	13	50282109	17	17	50282149	47	33
50282065	247	14	50282110	17	18	50282150	55	19
50282066	247	15	50282111	17	21	50282151	55	20
50282067	247	16	50282112	17	22	50282152	55	22
50282068	253	2	50282113	19	4	50282153	55	12
50282069	253	3	50282114	19	7	50282154	47	29
50282070	253	4	50282115	19	8	50282155	49	16
50282071	253	5	50282116	19	9	50282156	49	18
50282072	253	6	50282117	19	10	50282157	49	19
50282073	253	7	50282118	19	12	50282158	59	1
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50282087	5	10	50282130	27	5	50282167	69	26
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50282104	17	12	50282143	53	7	50282174	69	22
50282105	17	13	50282145	53	9	50282175	69	10
50282106	17	14	50282146	53	14	50282175	69	23
50282107	19	1	50282147	55	10	50282177	87	1

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282180	89	3	50282225	127	12	50282270	159	75
50282181	91	1	50282227	129	5	50282271	159	76
50282182	91	3	50282228	133	2	50282272	159	77
50282183	101	2	50282230	131	3	50282273	175	1
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50282185	101	6	50282232	133	3	50282275	175	4
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50282188	101	8	50282235	133	8	50282278	191	1
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50282210	95	12	50282256	167	1	50282294	199	16
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50282223	127	7	50282268	159	62	50282306	229	14
50282224	133	1	50282269	159	74	50282307	239	5

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282308	227	1	50282351	29	5	50282377	9	3
50282309	221	32	50282352	25	32	50282377	225	15
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50282312	261	11	50282352	39	27	50282379	39	33
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50282314	225	25	50282352	53	23	50282379	181	8
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50282316	225	27	50282352	247	6	50282380	53	25
50282317	225	28	50282352	249	1	50282380	77	15
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50282338	245	29	50282368	229	27	50282387	219	36
50282341	163	48	50282368	231	58	50282387	221	37
50282343	263	3	50282369	247	17	50282387	223	27
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50282346	17	26	50282373	27	28	50282389	163	49
50282347	17	28	50282373	29	6	50282389	265	17
50282349	25	26	50282373	37	20	50282389	267	17
50282350	23	34	50282373	39	32	50282389	273	11
50282350	163	4	50282373	43	5	50282390	167	17
50282350	167	2	50282374	155	1	50282392	25	42

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282392	245	12	50282418	127	24	50282457	175	77
50282393	9	4	50282418	127	25	50282458	231	2
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50282396	15	20	50282422	45	11	50282462	61	12
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50282396	85	4	50282426	225	34	50282464	271	29
50282396	133	11	50282426	229	34	50282465	183	12
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50282396	159	87	50282428	241	32	50282467	159	84
50282396	175	83	50282429	233	14	50282467	175	78
50282396	177	72	50282430	225	36	50282467	177	62
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50282399	77	16	50282434	227	10	50282468	215	10
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50282400	159	20	50282437	23	31	50282469	209	15
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50282401	63	8	50282438	231	52	50282469	223	14
50282402	61	11	50282438	235	3	50282470	159	30
50282403	175	75	50282439	235	4	50282470	175	53
50282404	183	7	50282439	237	5	50282470	177	56
50282405	263	9	50282440	231	53	50282470	177	61
50282406	53	12	50282441	203	28	50282470	177	64
50282407	271	27	50282442	235	5	50282470	185	7
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50282409	159	21	50282444	237	7	50282470	203	23
50282410	139	46	50282445	237	8	50282470	209	16
50282412	37	16	50282446	173	25	50282470	209	29
50282413	77	18	50282447	203	15	50282470	211	6
50282414	77	19	50282450	243	8	50282470	211	13
50282415	219	38	50282452	175	76	50282470	215	31
50282416	95	25	50282453	65	10	50282470	217	25
50282417	203	13	50282454	53	13	50282470	221	15
50282418	77	20	50282455	175	8	50282470	223	15
50282418	125	34	50282456	215	30	50282470	231	13

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282470	231	21	50282475	175	54	50282498	267	20
50282470	231	44	50282475	209	18	50282498	273	14
50282470	245	2	50282476	177	53	50282499	163	41
50282471	67	8	50282476	241	14	50282499	165	34
50282471	169	37	50282477	229	8	50282499	167	36
50282471	171	29	50282477	231	18	50282499	169	38
50282471	175	18	50282477	241	19	50282500	47	41
50282471	175	79	50282477	241	23	50282501	25	44
50282471	177	57	50282478	241	15	50282501	29	7
50282471	177	65	50282479	175	20	50282502	15	21
50282471	189	37	50282480	225	8	50282502	27	31
50282471	207	7	50282483	183	14	50282503	39	39
50282471	207	11	50282484	263	4	50282504	181	9
50282471	209	17	50282485	219	21	50282505	95	26
50282471	221	16	50282486	219	22	50282506	17	37
50282471	223	16	50282487	175	80	50282506	17	38
50282471	229	6	50282488	225	17	50282506	17	39
50282471	229	12	50282489	225	18	50282506	17	40
50282471	229	22	50282490	159	85	50282506	17	41
50282472	177	51	50282491	177	66	50282506	19	22
50282473	177	52	50282492	177	67	50282506	23	32
50282473	221	17	50282493	219	23	50282506	27	32
50282473	223	17	50282494	77	5	50282506	27	33
50282474	163	39	50282495	173	10	50282506	27	34
50282474	165	37	50282496	163	20	50282506	39	35
50282474	167	34	50282496	171	4	50282506	39	45
50282474	171	32	50282497	67	9	50282506	41	9
50282474	175	19	50282497	77	22	50282506	41	10
50282474	181	7	50282497	163	40	50282506	55	24
50282474	185	31	50282497	167	35	50282506	73	3
50282474	195	37	50282497	261	8	50282506	75	2
50282474	221	19	50282497	261	12	50282506	101	23
50282474	221	26	50282497	263	10	50282506	101	24
50282474	221	29	50282497	267	19	50282506	153	4
50282474	223	21	50282497	269	15	50282506	271	32
50282474	229	19	50282497	269	16	50282507	23	20
50282474	231	6	50282497	271	30	50282507	53	28
50282474	231	47	50282497	271	31	50282507	81	7
50282474	231	50	50282497	273	13	50282507	125	27
50282474	241	6	50282498	265	19	50282507	221	38

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282507	239	23	50282515	227	2	50282521	241	25
50282508	39	36	50282516	79	7	50282521	271	34
50282508	49	23	50282516	93	9	50282522	155	7
50282508	53	29	50282516	93	10	50282522	239	17
50282508	53	30	50282516	101	26	50282523	55	25
50282508	203	30	50282516	101	27	50282524	47	42
50282509	23	21	50282516	121	4	50282525	105	6
50282510	245	31	50282516	125	35	50282525	169	46
50282510	247	18	50282516	125	36	50282525	225	20
50282511	221	39	50282516	127	26	50282525	267	21
50282511	223	28	50282516	129	9	50282525	273	15
50282512	27	35	50282516	131	10	50282526	183	15
50282513	211	14	50282516	133	13	50282526	239	18
50282514	15	22	50282516	151	3	50282527	243	10
50282514	25	45	50282516	161	12	50282528	233	24
50282514	25	46	50282516	161	13	50282529	243	11
50282514	27	36	50282516	163	42	50282531	25	47
50282514	27	37	50282516	167	37	50282531	35	2
50282514	31	6	50282516	201	3	50282531	39	37
50282514	41	11	50282516	203	31	50282531	39	38
50282514	101	25	50282516	205	28	50282531	213	22
50282514	107	10	50282516	205	29	50282531	213	23
50282514	121	8	50282516	215	40	50282532	55	28
50282514	185	32	50282516	217	26	50282533	27	39
50282514	209	30	50282516	219	41	50282533	47	43
50282514	219	39	50282516	243	9	50282533	47	44
50282514	219	40	50282516	271	33	50282533	47	45
50282514	239	28	50282517	17	42	50282533	47	46
50282514	241	24	50282517	23	46	50282533	55	29
50282515	11	12	50282517	23	47	50282533	81	8
50282515	19	23	50282517	23	48	50282533	97	2
50282515	19	24	50282517	157	2	50282533	125	17
50282515	27	38	50282517	225	19	50282533	125	18
50282515	37	21	50282517	233	23	50282533	125	28
50282515	71	6	50282518	135	6	50282533	245	13
50282515	105	5	50282519	183	9	50282534	11	13
50282515	133	12	50282519	221	41	50282534	53	32
50282515	207	13	50282519	239	24	50282534	139	47
50282515	221	40	50282520	161	14	50282534	179	4
50282515	223	29	50282521	239	16	50282536	53	35

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282537	27	40	50282542	47	48	50282571	159	88
50282537	27	41	50282543	19	29	50282571	175	84
50282537	125	19	50282544	137	31	50282573	65	12
50282538	19	25	50282544	137	32	50282574	269	17
50282538	19	26	50282544	147	19	50282574	271	36
50282538	23	49	50282545	27	42	50282574	271	37
50282538	55	30	50282546	139	48	50282575	125	20
50282538	55	31	50282546	147	20	50282576	95	32
50282538	55	32	50282546	149	11	50282576	125	21
50282538	77	23	50282547	47	49	50282576	127	29
50282538	95	27	50282547	55	33	50282577	101	32
50282538	95	28	50282548	27	43	50282578	23	50
50282538	95	29	50282548	39	40	50282580	209	20
50282538	95	30	50282548	55	34	50282581	203	19
50282538	101	28	50282548	95	31	50282582	173	26
50282538	101	29	50282549	245	15	50282582	177	68
50282538	125	37	50282550	175	81	50282584	215	32
50282538	125	38	50282551	15	23	50282585	121	5
50282538	147	18	50282552	135	7	50282585	215	33
50282538	163	52	50282553	177	73	50282586	177	69
50282538	171	34	50282555	63	12	50282587	53	38
50282538	219	24	50282558	83	3	50282588	159	61
50282538	219	25	50282558	185	33	50282589	175	82
50282538	219	42	50282561	9	5	50282590	177	70
50282539	19	27	50282562	271	35	50282590	177	71
50282539	19	28	50282563	25	48	50282591	131	11
50282539	47	47	50282564	163	53	50282592	47	50
50282539	93	11	50282565	163	54	50282592	71	7
50282539	93	12	50282566	245	34	50282593	159	86
50282539	93	13	50282566	265	20	50282594	9	6
50282539	109	2	50282566	265	24	50282596	31	7
50282539	109	6	50282567	163	55	50282597	219	26
50282539	127	27	50282567	169	47	50282599	65	13
50282539	127	28	50282567	265	21	50282599	269	18
50282539	129	10	50282567	267	22	50282599	271	38
50282539	133	14	50282567	273	16	50282599	271	39
50282539	133	15	50282568	61	17	50282600	263	11
50282539	221	42	50282569	15	24	50282601	135	8
50282539	223	30	50282569	219	43	50282602	271	40
50282541	21	9	50282570	85	5	50282604	39	13

Z80 - Numerical Index

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50282605	39	14	50282609	223	32	50286251	245	5
50282606	39	15	50282609	225	22	50286253	271	5
50282607	41	12	50282609	229	26	50286255	271	6
50282607	203	25	50282609	231	19	50286257	271	13
50282607	205	23	50282609	231	55	50286259	271	19
50282607	205	27	50282609	237	11	50286261	271	21
50282607	205	30	50282609	241	3	50286263	271	22
50282607	207	14	50282610	225	4	50286325	129	1
50282607	207	15	50282610	231	56	50286327	93	5
50282607	209	26	50282610	241	26	50286329	131	6
50282607	209	31	50282611	67	1	50286331	155	3
50282607	211	9	50282612	61	2	50286333	239	2
50282607	211	15	50282613	61	1	50286335	239	4
50282607	213	24	50282614	23	1	50286337	243	2
50282607	215	37	50282615	219	1	50286339	239	6
50282607	215	39	50282616	33	7	50286341	239	7
50282607	215	41	50282617	163	57	50286343	239	9
50282607	217	27	50282619	225	23	50286345	245	6
50282607	221	22	50282619	231	57	50286347	245	8
50282607	223	31	50282620	163	58	50286349	245	9
50282607	225	21	50282621	61	13	50286351	245	10
50282607	229	15	50282621	63	10	50286353	245	11
50282607	229	25	50282622	135	9	50286355	247	3
50282607	231	3	50282711	53	4	50286357	247	4
50282607	231	25	50283277	173	24	50286383	93	1
50282607	231	28	50283430	33	2	50286385	95	2
50282607	231	30	50286117	51	9	50286387	95	7
50282607	231	36	50286167	155	5	50286389	127	4
50282607	231	39	50286167	243	6	50286391	129	2
50282607	231	54	50286167	243	7	50286393	131	1
50282607	237	9	50286169	239	13	50286395	239	3
50282607	241	9	50286169	239	20	50286397	233	16
50282607	241	10	50286175	243	4	50286399	233	19
50282608	209	32	50286181	239	11	50286401	265	2
50282608	221	43	50286183	243	3	50286403	267	3
50282608	225	13	50286185	243	5	50286405	263	1
50282608	229	10	50286191	269	3	50286417	243	1
50282608	237	10	50286193	269	4	50286419	245	32
50282609	165	39	50286217	269	5	50286421	119	1
50282609	181	10	50286249	245	4	50286422	119	1E

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50286423	119	1D	50300781	5	7	425-34924	25	27
50286424	119	1D	50300845	5	3	425-34927	25	31
50286425	119	1C	50300980	275	1	425-35026	53	33
50286426	119	1B	50300987	275	2	425-35026	53	34
50286427	119	1A	50301126	1	2	425-35026	245	14
50286428	119	1D	50301147	37	3	425-35026	247	5
50286482	51	2	50301563	275	4	425-35450	49	24
50286483	51	3	50301565	275	3	425-35450	53	31
50286484	51	4	210-32084	163	56	425-35450	55	26
50286485	51	5	420-34912	1	7	425-35450	55	27
50286486	51	6	420-34913	1	8	425-35678	161	8
50286487	51	7	420-34914	1	9	425-35678	161	10
50286488	51	8	425-34728	183	8	425-35678	229	24
50286490	57	2	425-34733	39	41	425-35914	209	19
50286491	57	3	425-34733	39	42	425-36133	11	10
50286492	57	4	425-34733	101	30	425-36235	21	7
50286493	57	5	425-34733	101	31	425-36271	23	33
50286494	57	6	425-34744	17	4	425-36271	203	18
50286495	57	7	425-34744	25	30			
50286496	55	21	425-34744	209	14			
50286496	57	1	425-34744	211	5			
50286497	123	16	425-34745	23	18			
50286498	149	10	425-34745	23	19			
50286499	143	23	425-34745	203	17			
50286500	143	24	425-34765	103	5			
50286501	201	1	425-34891	27	30			
50286502	231	15	425-34891	203	12			
50286503	231	16	425-34902	15	18			
50286504	231	17	425-34916	17	27			
50286505	251	2	425-34916	23	30			
50286506	251	3	425-34916	25	34			
50286507	251	4	425-34916	25	35			
50286508	251	5	425-34916	25	36			
50286509	251	6	425-34916	25	37			
50286510	251	7	425-34918	23	16			
50286511	251	8	425-34918	245	30			
50286512	251	9	425-34918	249	29			
50286589	95	16	425-34918	255	21			
50286590	197	9	425-34918	257	3			
50286605	221	30	425-34918	259	5			

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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