

GEHL®

Model Z27

Form No.
50940091
Revision B
Dec. 2012

Compact Excavator



Parts Manual

INTRODUCTION

General

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

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

Parts Ordering Information

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

Serial Number Locations and Information

- Machine Serial Plate - Located at the lower 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

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.

INTRODUCTION

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

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

Reference Number Sequencing in Parts Lists

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

FOR EXAMPLE (Ref. Nos.):

5 = Original version/configuration of a part or assembly

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

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

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

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

INTRODUCTION

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

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

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

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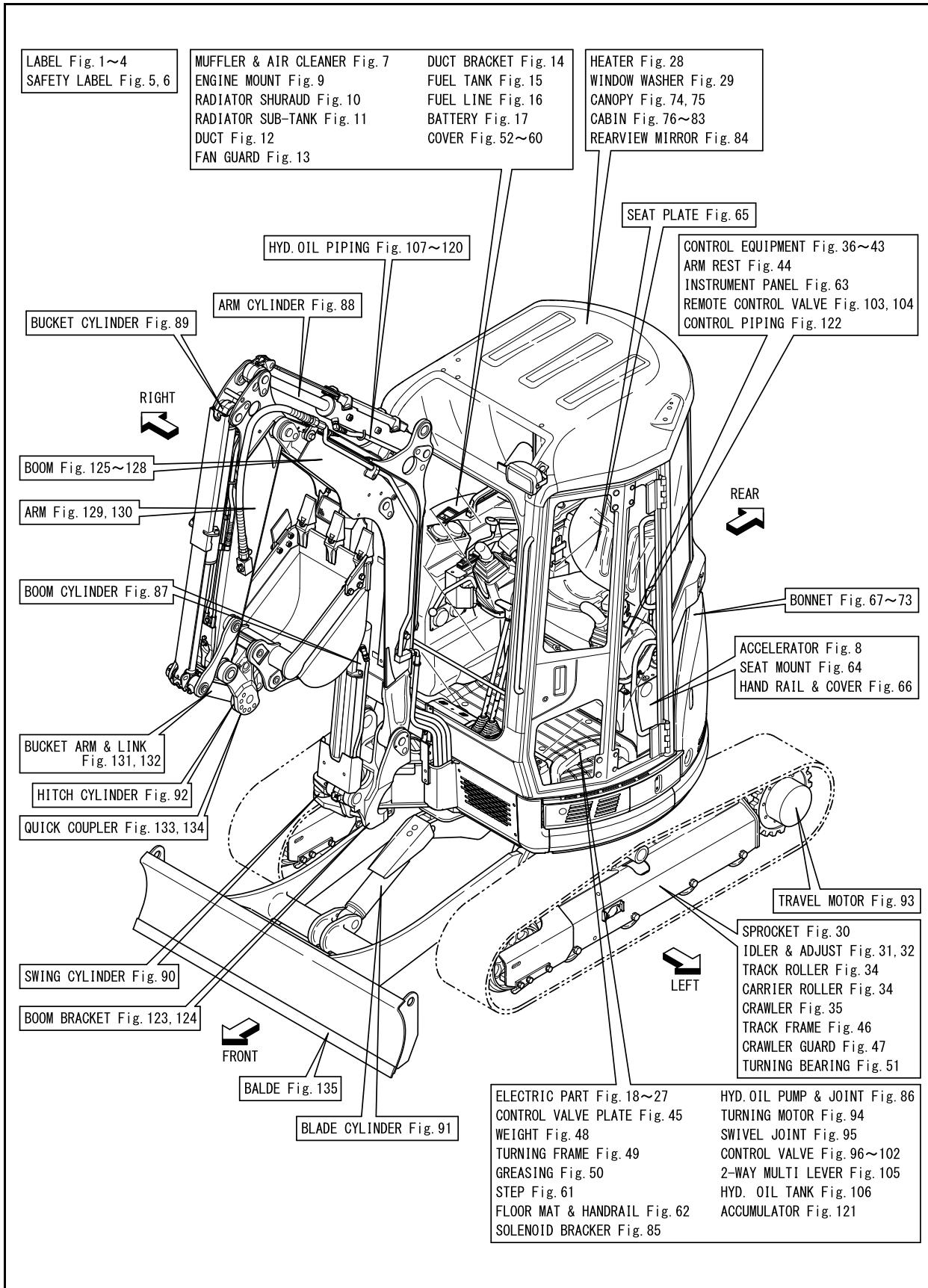
**Z27 - COMPACT EXCAVATOR
SPECIAL TOOLS, PAINT**

Ref.

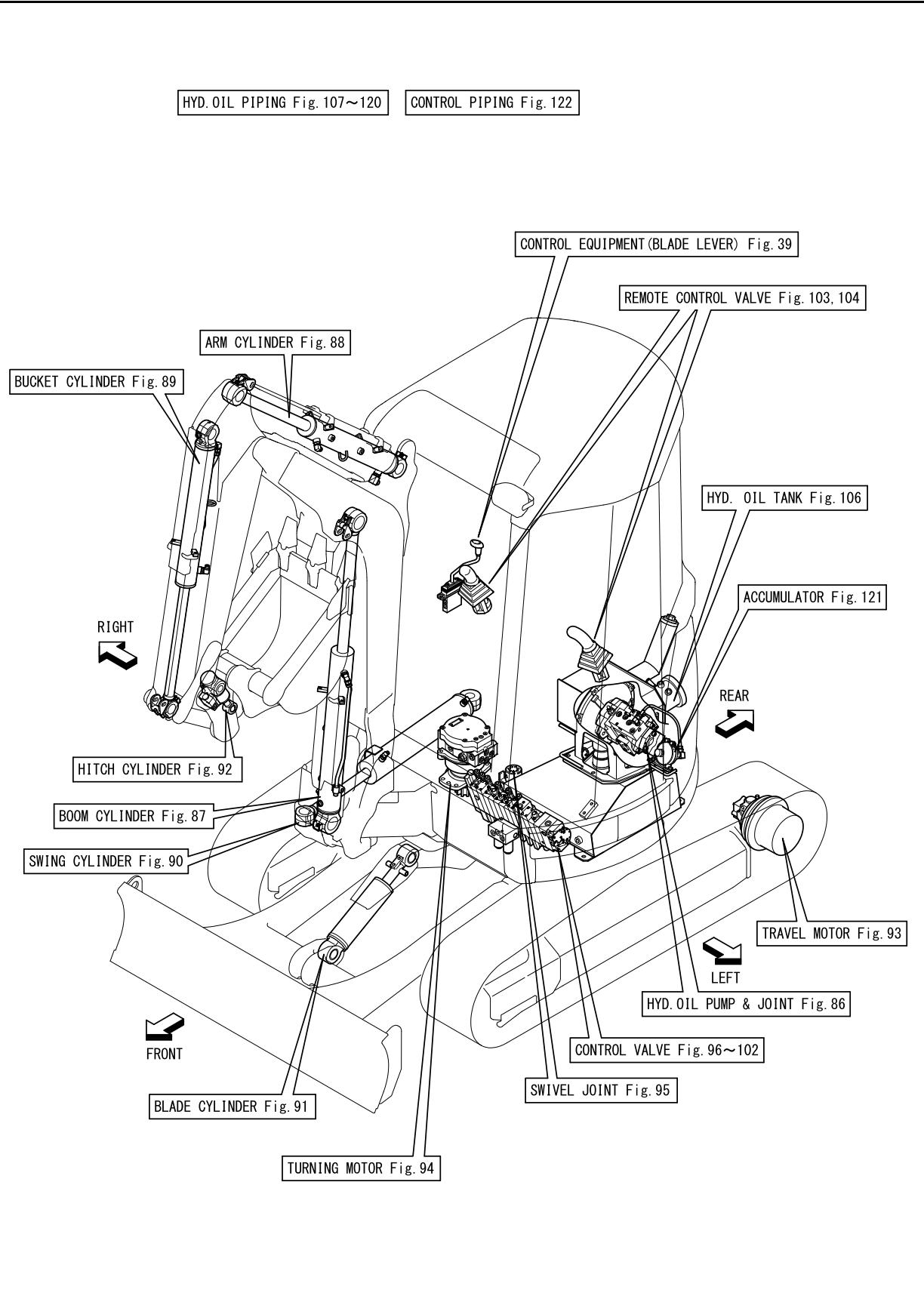
| No. | Part No. | Description | Qty. |
|-----|-----------|---|-----------|
| 1 | 184467 | HYDRAULIC GAUGE KIT | 1 |
| 2 | 50301126 | TEST PORT R1/8K ADAPTER (used with test gauge kits) | 1 |
| 3 | 184472 | TEST GAUGE, 1000PSI | 1 |
| 4 | 184473 | TEST GAUGE, 6000PSI | 1 |
| 5 | 184474 | TEST GAUGE,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

Z27 - COMPACT EXCAVATOR

FIGURE INDEX (1) - MAIN PARTS

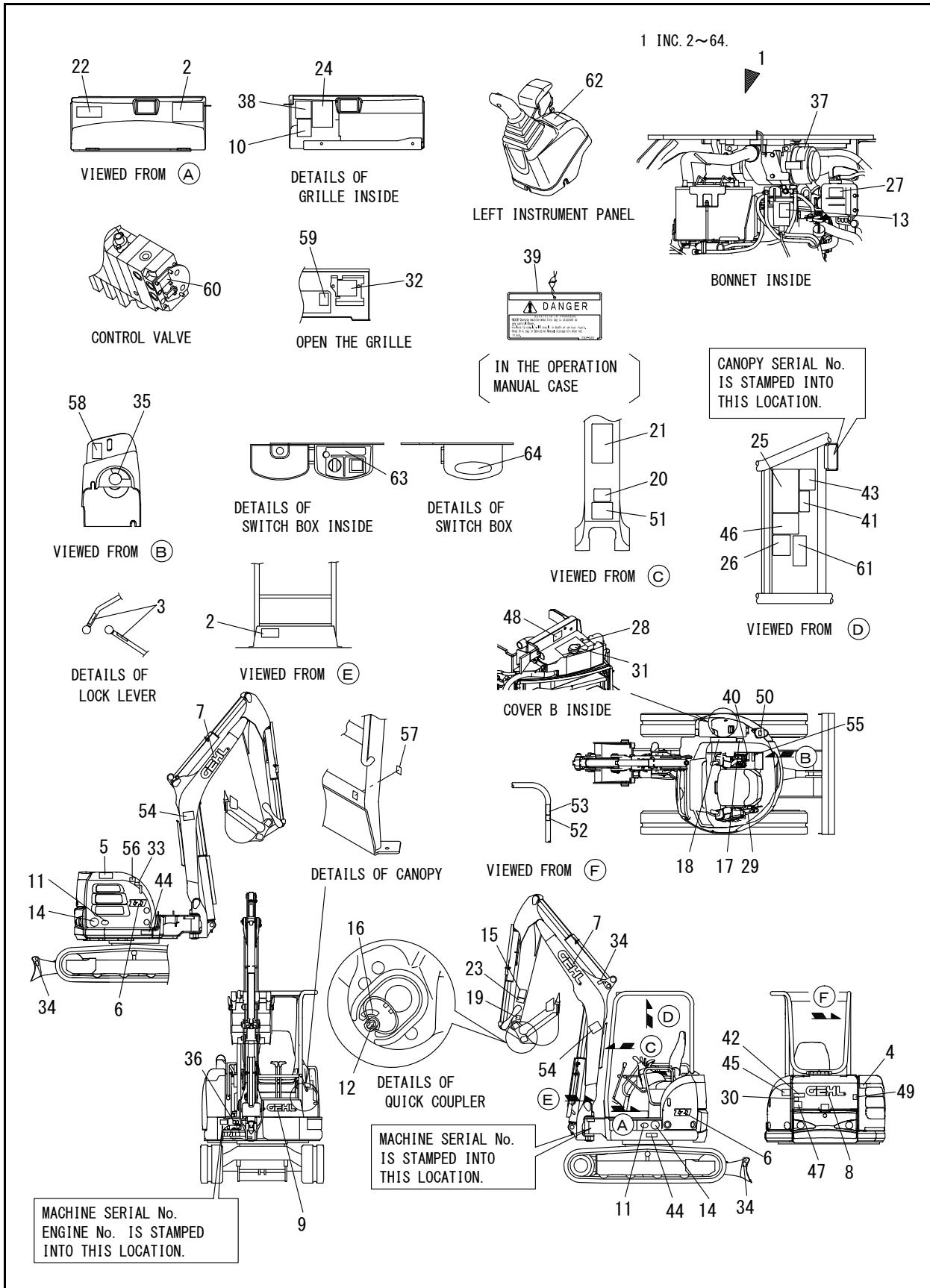


**Z27 - COMPACT EXCAVATOR
FIGURE INDEX (2) - HYDRAULIC SECTION**



Z27 - COMPACT EXCAVATOR

FIG. 1 - LABEL (CANOPY)

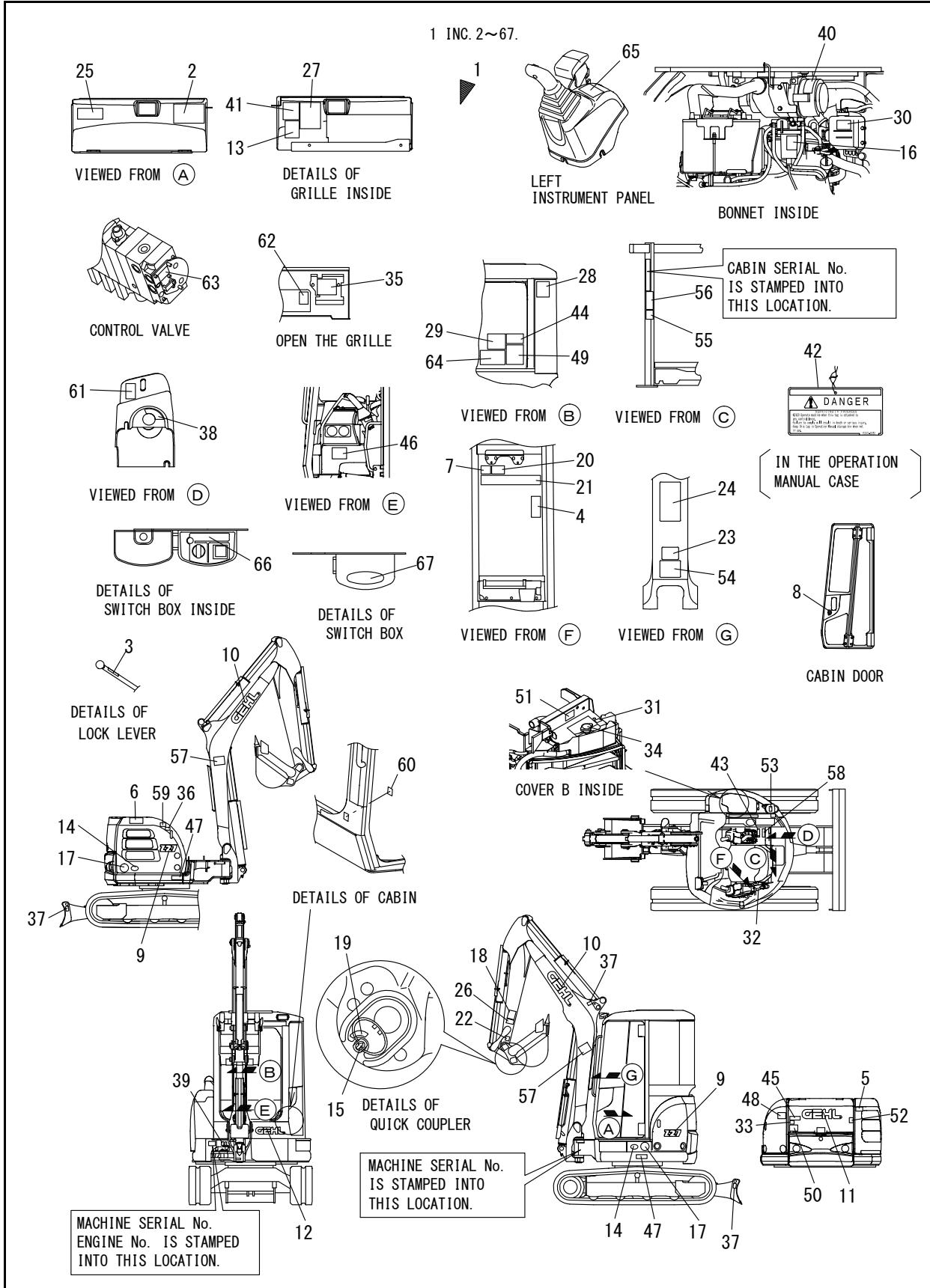


Z27 - COMPACT EXCAVATOR**FIG. 1 - LABEL (CANOPY)**

| Ref. | No. | Part No. | Description | Qty. | Ref. | No. | Part No. | Description | Qty. |
|-------------|------------|-----------------|--|-------------|-------------|------------|-----------------|----------------------|-------------|
| | 2 | 50281172 | LABEL, SUPPORT US | 2 | | 49 | 50281028 | LABEL, ENG,COVER US | 1 |
| | 3 | 50280917 | LABEL,LOCK | 2 | | 50 | 50281029 | LABEL, MUFFLER US | 1 |
| | 4 | 50281425 | LABEL, ENG ROOM | 1 | | 51 | 50281030 | LABEL, STEERING US | 1 |
| | 5 | 50281029 | LABEL, MUFFLER US | 1 | | 52 | 50281031 | LABEL, ROPS US | 1 |
| | 6 | 50300797 | DECAL/Z27 | 2 | | 53 | 50281032 | LABEL, SEAT BELT US | 1 |
| | 7 | 183963 | DECAL/GEHL 3.75 X 15.92 | 2 | | 54 | 50282884 | LABEL, BOOM US | 2 |
| | 8 | 183935 | DECAL/GEHL 5.50 X 23.34 | 1 | | 55 | 50281033 | LABEL, LEVER LOCK US | 1 |
| | 9 | 184305 | DECAL/GEHL 2.75 X 11.67 (WHITE) | 1 | | 56 | 197868 | LABEL/FUEL OIL NOTI | 1 |
| | 10 | 50283226 | LABEL,GREASING | 1 | | 57 | 50283350 | LABEL,PTO FOOT | 1 |
| | 12 | 50281361 | LABEL | 1 | | 58 | 50283351 | LABEL,PTO SWITCH | 1 |
| | 13 | 50281407 | LABEL | 1 | | 59 | 50283352 | LABEL,PTO SELECT | 1 |
| | 14 | 50300780 | DECAL/ZERO TAIL | 2 | | 60 | 50283349 | LABEL,2-WAY | 1 |
| | 15 | 50281173 | LABEL,OPERATION PIN | 1 | | 61 | 50281037 | LABEL, 2-WAY US | 1 |
| | 16 | 50281130 | LABEL,LOCK | 1 | | 62 | 50283362 | LABEL,PTO EX | 1 |
| | 17 | 50281174 | LABEL, PIN US | 1 | | 63 | 50281179 | LABEL, SWITCH | 1 |
| | 18 | 50281175 | LABEL,OPERATION Q US | 1 | | 64 | 50301147 | LABEL,COVER | 1 |
| | 19 | 50281176 | LABEL, FINGER US | 1 | | | | | |
| | 20 | 50281177 | LABEL, SAND US | 1 | | | | | |
| | 21 | 50281178 | LABEL, WARNING HITCH | 1 | | | | | |
| | 22 | 50285142 | LABEL SPEC US | 1 | | | | | |
| | 23 | 50281181 | LABEL,LOCK PIN(US | 1 | | | | | |
| | 24 | 50284450 | LABEL,OIL & WATER | 1 | | | | | |
| | 25 | 50285051 | LABEL,LIFT Q US | 1 | | | | | |
| | 26 | 50283251 | LABEL | 1 | | | | | |
| | 27 | 50281458 | LABEL, SUB-TANK US | 1 | | | | | |
| | 28 | 50281459 | LABEL,ANTI-FREEZING | 1 | | | | | |
| | 29 | 50282950 | LABEL,ACCELERATOR | 1 | | | | | |
| | 30 | 50281149 | LABEL,HYD.OIL US | 1 | | | | | |
| | 31 | 50281147 | LABEL | 1 | | | | | |
| | 32 | 50283359 | LABEL,FUSE US | 1 | | | | | |
| | 33 | 50281034 | LABEL, FUEL US | 1 | | | | | |
| | 34 | 50281035 | LABEL, HOOK US | 3 | | | | | |
| | 35 | 50281498 | LABEL,STARTER | 1 | | | | | |
| | 36 | 50280846 | LABEL, GREASE | 1 | | | | | |
| | 37 | 50280797 | LABEL, AIR CLEANER | 1 | | | | | |
| | 38 | 50282883 | LABEL, CRAWLER US (rubber crawler spec.) | 1 | | | | | |
| | 39 | 50281018 | TAG ASSY, CAUTION | 1 | | | | | |
| | 40 | 50281019 | LABEL, MANUAL US | 1 | | | | | |
| | 41 | 50281020 | LABEL,SLOPE US | 1 | | | | | |
| | 42 | 50281021 | LABEL, HYD.OIL TANK | 1 | | | | | |
| | 43 | 50281022 | LABEL, TRANSPORT US | 1 | | | | | |
| | 44 | 50281023 | LABEL, GREASE CYL. | 2 | | | | | |
| | 45 | 50281024 | LABEL, BATTERY US | 1 | | | | | |
| | 46 | 50281025 | LABEL, NEUTRAL US | 1 | | | | | |
| | 47 | 50281026 | LABEL,SWING AREA US | 1 | | | | | |
| | 48 | 50281027 | LABEL, RADIATOR US | 1 | | | | | |

Z27 - COMPACT EXCAVATOR

FIG. 2 - LABEL (CABIN)



Z27 - COMPACT EXCAVATOR
FIG. 2 - LABEL (CABIN)

Ref.

No. Part No.

Description

Qty.

| | | | |
|----|----------|--|---|
| 2 | 50281172 | LABEL, SUPPORT US | 1 |
| 3 | 50280917 | LABEL,LOCK | 1 |
| 4 | 50283217 | LABEL,F/W LOWER US | 1 |
| 5 | 50281425 | LABEL, ENG ROOM | 1 |
| 6 | 50281029 | LABEL, MUFFLER US | 1 |
| 7 | 50281036 | LABEL, WINDOW US | 1 |
| 8 | 50282952 | LABEL, DOOR KEY LOCK | 1 |
| 9 | 50300797 | DECAL/Z27 | 2 |
| 10 | 183963 | DECAL/GEHL 3.75 X 15.92 | 2 |
| 11 | 183935 | DECAL/GEHL 5.50 X 23.34 | 1 |
| 12 | 184305 | DECAL/GEHL 2.75 X 11.67 (WHITE) | 1 |
| 13 | 50283226 | LABEL,GREASING | 1 |
| 15 | 50281361 | LABEL | 1 |
| 16 | 50281407 | LABEL | 1 |
| 17 | 50300780 | DECAL/ZERO TAIL | 2 |
| 18 | 50281173 | LABEL,OPERATION PIN | 1 |
| 19 | 50281130 | LABEL,LOCK | 1 |
| 20 | 50281174 | LABEL, PIN US | 1 |
| 21 | 50281175 | LABEL,OPERATION Q US | 1 |
| 22 | 50281176 | LABEL, FINGER US | 1 |
| 23 | 50281177 | LABEL, SAND US | 1 |
| 24 | 50281178 | LABEL, WARNING HITCH | 1 |
| 25 | 50285142 | LABEL SPEC US | 1 |
| 26 | 50281181 | LABEL,LOCK PIN(US | 1 |
| 27 | 50284450 | LABEL,OIL & WATER | 1 |
| 28 | 50285051 | LABEL,LIFT Q US | 1 |
| 29 | 50283251 | LABEL | 1 |
| 30 | 50281458 | LABEL, SUB-TANK US | 1 |
| 31 | 50281459 | LABEL,ANTI-FREEZING | 1 |
| 32 | 50282950 | LABEL,ACCELERATOR | 1 |
| 33 | 50281149 | LABEL,HYD.OIL US | 1 |
| 34 | 50281147 | LABEL | 1 |
| 35 | 50283359 | LABEL,FUSE US | 1 |
| 36 | 50281034 | LABEL, FUEL US | 1 |
| 37 | 50281035 | LABEL, HOOK US | 3 |
| 38 | 50281498 | LABEL,STARTER | 1 |
| 39 | 50280846 | LABEL, GREASE | 1 |
| 40 | 50280797 | LABEL, AIR CLEANER | 1 |
| 41 | 50282883 | LABEL, CRAWLER US (rubber crawler spec.) | 1 |
| 42 | 50281018 | TAG ASSY, CAUTION | 1 |
| 43 | 50281019 | LABEL, MANUAL US | 1 |
| 44 | 50281020 | LABEL,SLOPE US | 1 |
| 45 | 50281021 | LABEL, HYD.OIL TANK | 1 |
| 46 | 50281022 | LABEL, TRANSPORT US | 1 |
| 47 | 50281023 | LABEL, GREASE CYL. | 2 |
| 48 | 50281024 | LABEL, BATTERY US | 1 |
| 49 | 50281025 | LABEL, NEUTRAL US | 1 |

Ref.

No. Part No.

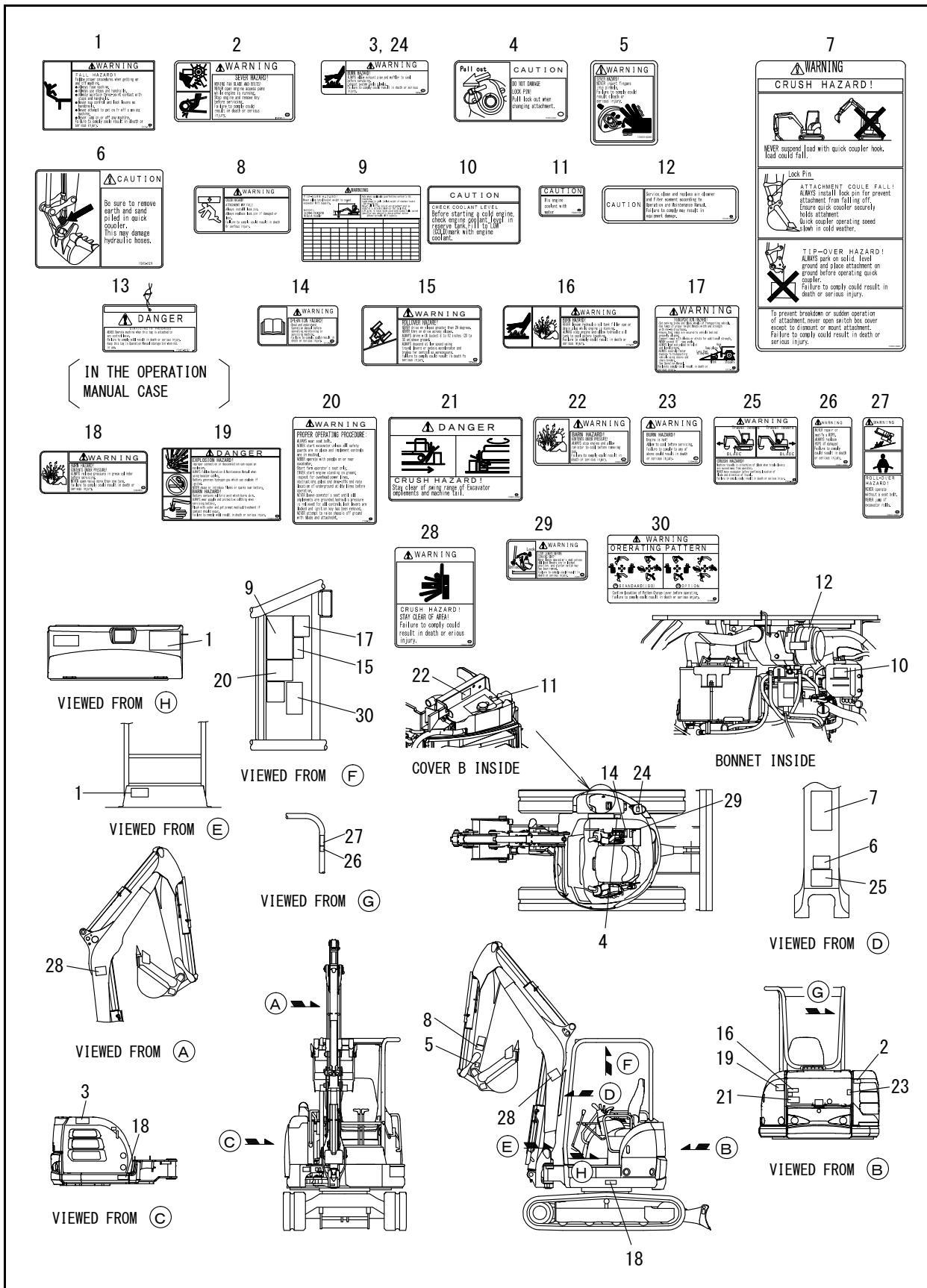
Description

Qty.

| | | | |
|----|----------|----------------------|---|
| 50 | 50281026 | LABEL,SWING AREA US | 1 |
| 51 | 50281027 | LABEL, RADIATOR US | 1 |
| 52 | 50281028 | LABEL, ENG,COVER US | 1 |
| 53 | 50281029 | LABEL, MUFFLER US | 1 |
| 54 | 50281030 | LABEL, STEERING US | 1 |
| 55 | 50281031 | LABEL, ROPS US | 1 |
| 56 | 50281032 | LABEL, SEAT BELT US | 1 |
| 57 | 50282884 | LABEL, BOOM US | 2 |
| 58 | 50281033 | LABEL, LEVER LOCK US | 1 |
| 59 | 197868 | LABEL/FUEL OIL NOTI | 1 |
| 60 | 50283350 | LABEL,PTO FOOT | 1 |
| 61 | 50283351 | LABEL,PTO SWITCH | 1 |
| 62 | 50283352 | LABEL,PTO SELECT | 1 |
| 63 | 50283349 | LABEL,2-WAY | 1 |
| 64 | 50281037 | LABEL, 2-WAY US | 1 |
| 65 | 50283362 | LABEL,PTO EX | 1 |
| 66 | 50281179 | LABEL, SWITCH | 1 |
| 67 | 50301147 | LABEL,COVER | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 5 - SAFETY LABEL (CANOPY)



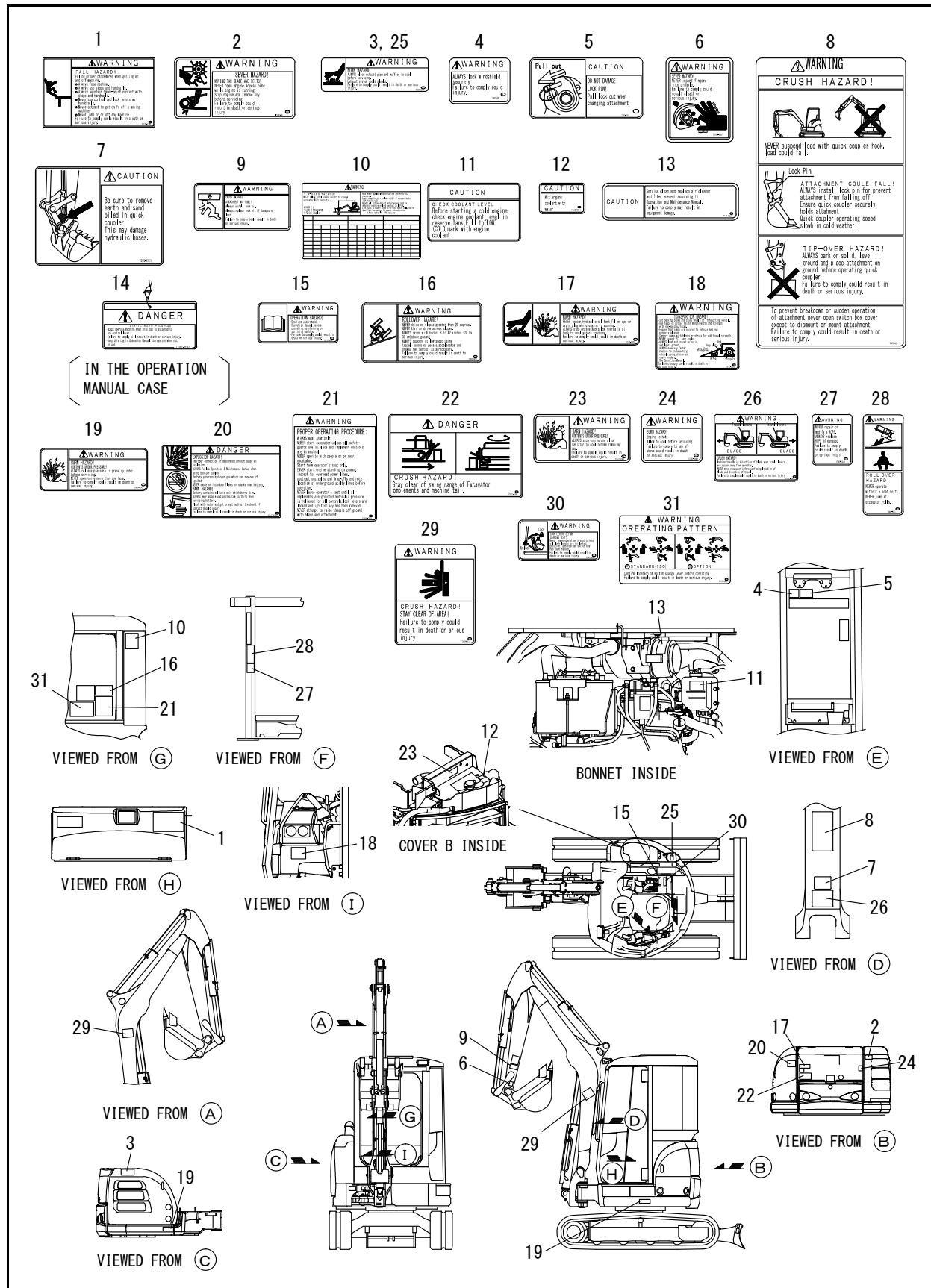
Z27 - COMPACT EXCAVATOR
FIG. 5 - SAFETY LABEL (CANOPY)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50281172 | LABEL, SUPPORT US | 2 |
| 2 | 50281425 | LABEL, ENG ROOM | 1 |
| 3 | 50281029 | LABEL, MUFFLER US | 1 |
| 4 | 50281174 | LABEL, PIN US | 1 |
| 5 | 50281176 | LABEL, FINGER US | 1 |
| 6 | 50281177 | LABEL, SAND US | 1 |
| 7 | 50281178 | LABEL, WARNING HITCH | 1 |
| 8 | 50281181 | LABEL,LOCK PIN(US | 1 |
| 9 | 50285051 | LABEL,LIFT Q US | 1 |
| 10 | 50281458 | LABEL, SUB-TANK US | 1 |
| 11 | 50281459 | LABEL,ANTI-FREEZING | 1 |
| 12 | 50280797 | LABEL, AIR CLEANER | 1 |
| 13 | 50281018 | TAG ASSY, CAUTION | 1 |
| 14 | 50281019 | LABEL, MANUAL US | 1 |
| 15 | 50281020 | LABEL,SLOPE US | 1 |
| 16 | 50281021 | LABEL, HYD.OIL TANK | 1 |
| 17 | 50281022 | LABEL, TRANSPORT US | 1 |
| 18 | 50281023 | LABEL, GREASE CYL. | 2 |
| 19 | 50281024 | LABEL, BATTERY US | 1 |
| 20 | 50281025 | LABEL, NEUTRAL US | 1 |
| 21 | 50281026 | LABEL,SWING AREA US | 1 |
| 22 | 50281027 | LABEL, RADIATOR US | 1 |
| 23 | 50281028 | LABEL, ENG,COVER US | 1 |
| 24 | 50281029 | LABEL, MUFFLER US | 1 |
| 25 | 50281030 | LABEL, STEERING US | 1 |
| 26 | 50281031 | LABEL, ROPS US | 1 |
| 27 | 50281032 | LABEL, SEAT BELT US | 1 |
| 28 | 50282884 | LABEL, BOOM US | 2 |
| 29 | 50281033 | LABEL, LEVER LOCK US | 1 |
| 30 | 50281037 | LABEL, 2-WAY US | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 6 - SAFETY LABEL (CABIN)

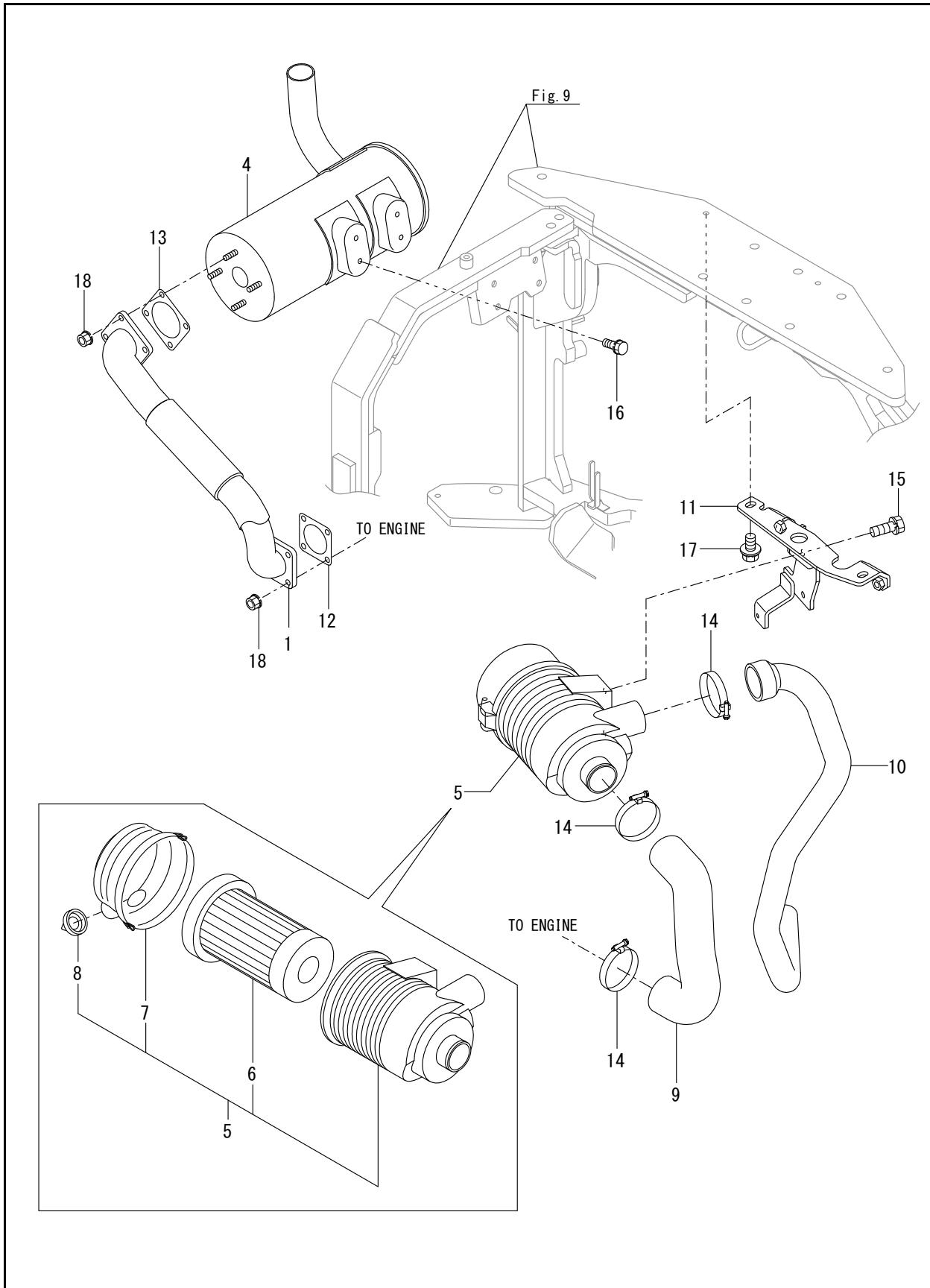


Z27 - COMPACT EXCAVATOR
FIG. 6 - SAFETY LABEL (CABIN)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50281172 | LABEL, SUPPORT US | 1 |
| 2 | 50281425 | LABEL, ENG ROOM | 1 |
| 3 | 50281029 | LABEL, MUFFLER US | 1 |
| 4 | 50281036 | LABEL, WINDOW US | 1 |
| 5 | 50281174 | LABEL, PIN US | 1 |
| 6 | 50281176 | LABEL, FINGER US | 1 |
| 7 | 50281177 | LABEL, SAND US | 1 |
| 8 | 50281178 | LABEL, WARNING HITCH | 1 |
| 9 | 50281181 | LABEL,LOCK PIN(US | 1 |
| 10 | 50285051 | LABEL,LIFT Q US | 1 |
| 11 | 50281458 | LABEL, SUB-TANK US | 1 |
| 12 | 50281459 | LABEL,ANTI-FREEZING | 1 |
| 13 | 50280797 | LABEL, AIR CLEANER | 1 |
| 14 | 50281018 | TAG ASSY, CAUTION | 1 |
| 15 | 50281019 | LABEL, MANUAL US | 1 |
| 16 | 50281020 | LABEL,SLOPE US | 1 |
| 17 | 50281021 | LABEL, HYD.OIL TANK | 1 |
| 18 | 50281022 | LABEL, TRANSPORT US | 1 |
| 19 | 50281023 | LABEL, GREASE CYL. | 2 |
| 20 | 50281024 | LABEL, BATTERY US | 1 |
| 21 | 50281025 | LABEL, NEUTRAL US | 1 |
| 22 | 50281026 | LABEL,SWING AREA US | 1 |
| 23 | 50281027 | LABEL, RADIATOR US | 1 |
| 24 | 50281028 | LABEL, ENG,COVER US | 1 |
| 25 | 50281029 | LABEL, MUFFLER US | 1 |
| 26 | 50281030 | LABEL, STEERING US | 1 |
| 27 | 50281031 | LABEL, ROPS US | 1 |
| 28 | 50281032 | LABEL, SEAT BELT US | 1 |
| 29 | 50282884 | LABEL, BOOM US | 2 |
| 30 | 50281033 | LABEL, LEVER LOCK US | 1 |
| 31 | 50281037 | LABEL, 2-WAY US | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 7 - MUFFLER & AIR CLEANER



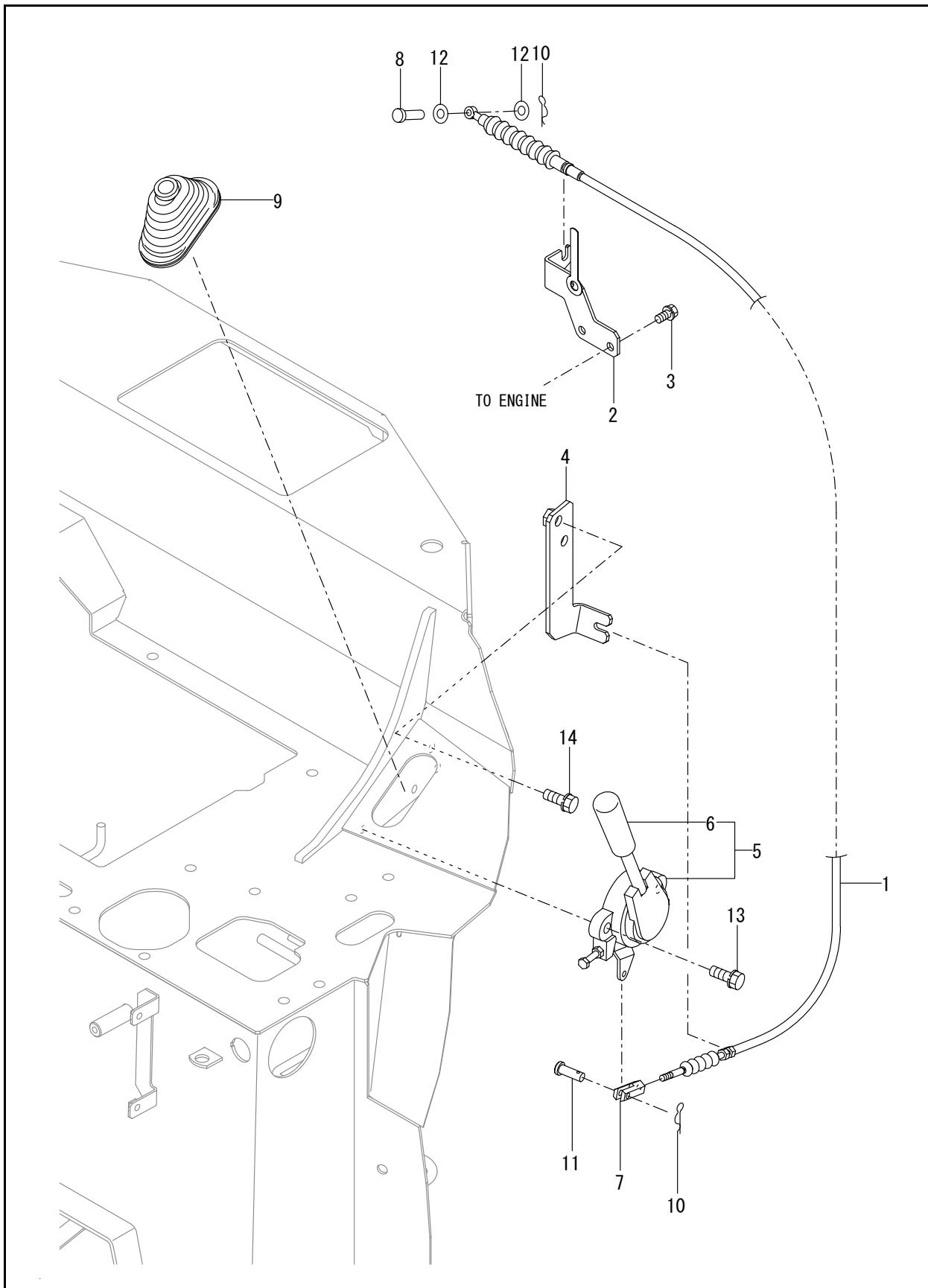
Z27 - COMPACT EXCAVATOR
FIG. 7 - MUFFLER & AIR CLEANER

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|---|------|
| 1 | 50285104 | TUBE ASSY, EXHAUST | 1 |
| 4 | 50284784 | SILENCER ASSY | 1 |
| 5 | 50284459 | CLEANER ASSY,AIR (use with label 8A) | 1 |
| 6 | 50282682 | ELEMENT, AIR CLEANER | 1 |
| 7 | 50282680 | COVER ASSY | 1 |
| 8 | 50280727 | VALVE, UNLOADER | 1 |
| 8A | 50280797 | LABEL, AIR CLEANER (see Page 4, Page 6) | 1 |
| 9 | 50284460 | HOSE A,AIRCLEANER | 1 |
| 10 | 50284461 | HOSE B,AIRCLEANER | 1 |
| 11 | 50284462 | BRACKET ASSY | 1 |
| 12 | 425-36251 | GASKET | 1 |
| 13 | 425-34652 | GASKET | 1 |
| 14 | 425-36133 | CLAMP 70 | 3 |
| 15 | 50282507 | BOLT W/WASHER M8X20 | 2 |
| 16 | 50282508 | BOLT M 8X 25 | 4 |
| 17 | 50282539 | BOLT 10X25 W/PLW+SPW | 2 |
| 18 | 50282548 | NUT M 8 | 8 |

Z27 - COMPACT EXCAVATOR

FIG. 8 - ACCELERATOR



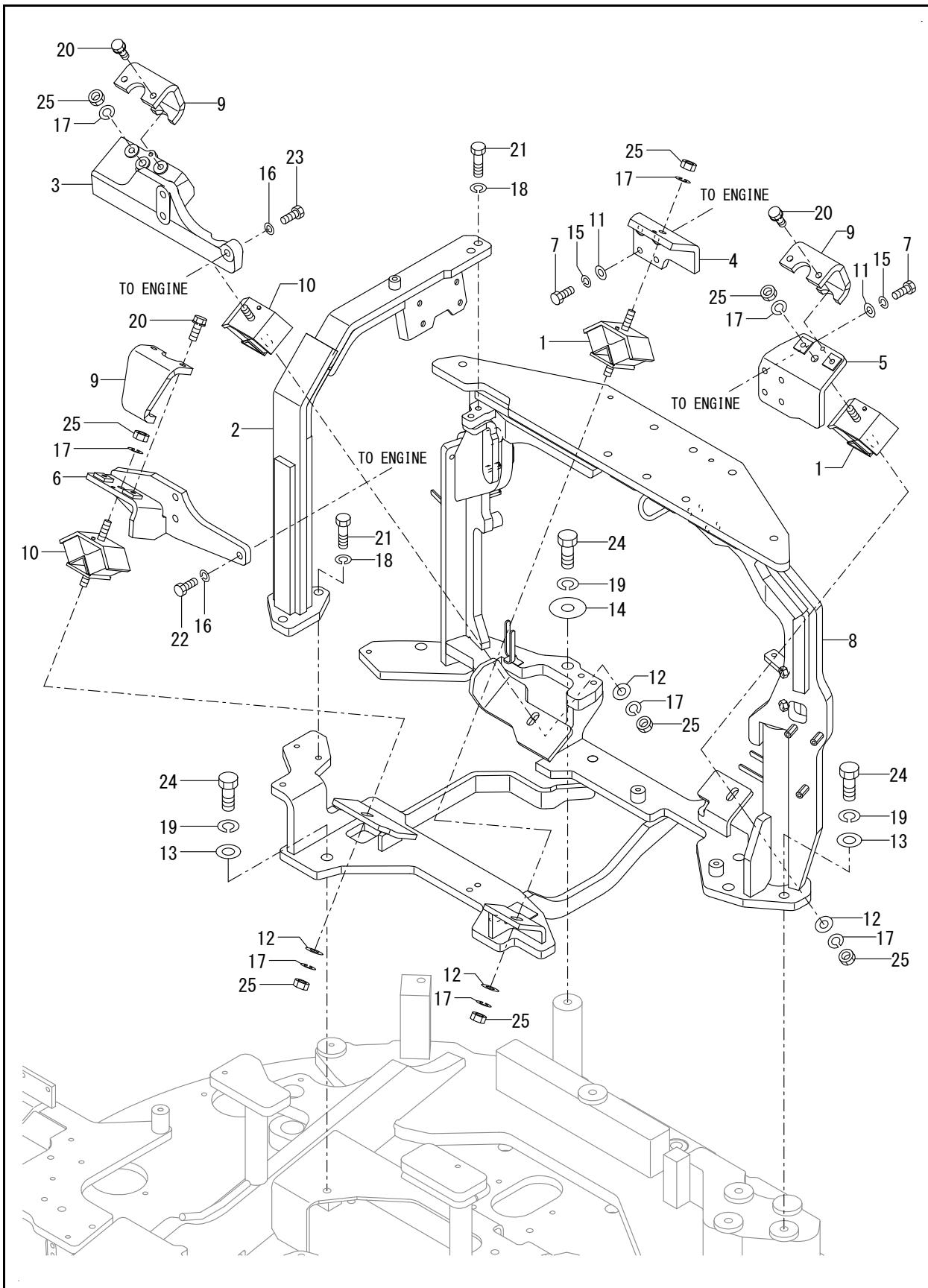
Z27 - COMPACT EXCAVATOR
FIG. 8 - ACCELERATOR

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284465 | CABLE, ACCELERATOR | 1 |
| 2 | 50285105 | BRACKET | 1 |
| 3 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 4 | 50283379 | BRACKET, CABLE | 1 |
| 5 | 50283381 | CABLE LEVER | 1 |
| 6 | 50285139 | GRIP | 1 |
| 7 | 50282719 | JOINT, CABLE | 1 |
| 8 | 50282690 | PIN | 1 |
| 9 | 50282725 | BOOTS | 1 |
| 10 | 50284017 | PIN 6,COME-OFF SNAP | 2 |
| 11 | 50284007 | PIN 6 X 17 | 1 |
| 12 | 50282379 | WASHER 6, POLISHED | 2 |
| 13 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 14 | 50282516 | BOLT W/WASHER M10X25 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 9 - ENGINE MOUNT



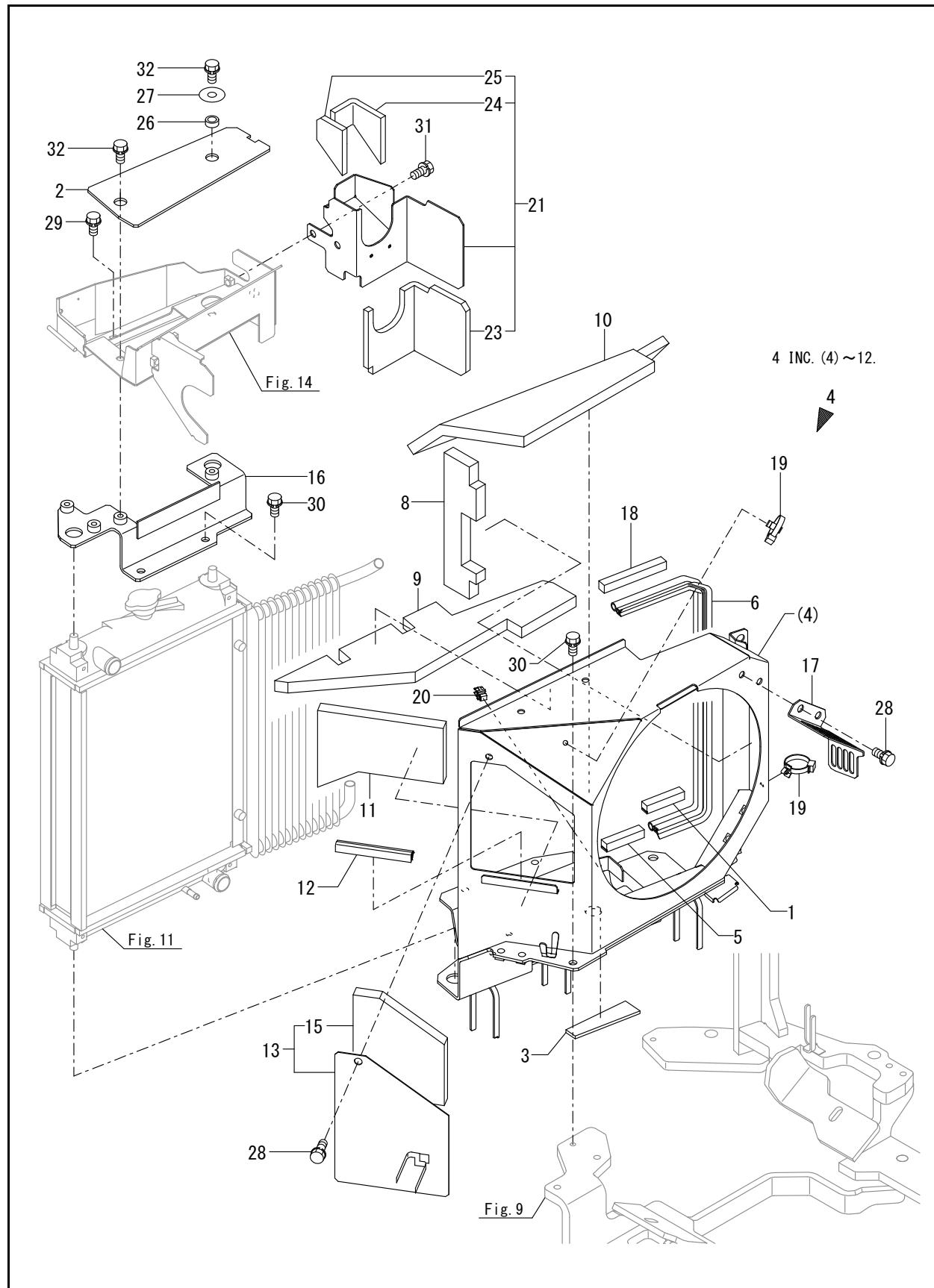
Z27 - COMPACT EXCAVATOR
FIG. 9 - ENGINE MOUNT

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50284835 | ABSORBER, SHOCK | 2 |
| 2 | 50284458 | BRACKET ASSY,SILENCE | 1 |
| 3 | 50284994 | MOUNT, ENGINE | 1 |
| 4 | 50284231 | PLATE | 1 |
| 5 | 50284397 | BRACKET ASSY,EN BR | 1 |
| 6 | 50285106 | MOUNT L ENG | 1 |
| 7 | 50282770 | BOLT M10X30 | 8 |
| 8 | 50285108 | MOUNT ASSY, ENG | 1 |
| 9 | 50284197 | STOPPER, ENGINE | 3 |
| 10 | 50284917 | ABSORBER, SHOCK | 2 |
| 11 | 50280803 | SEAT, SPRING | 8 |
| 12 | 50284041 | WASHER 12,POLISHED | 4 |
| 13 | 50282382 | WASHER 16,POLISHED | 7 |
| 14 | 50284839 | WASHER 16 | 1 |
| 15 | 50282393 | SPRING WASHER 10 | 8 |
| 16 | 425-34902 | SPRING WASHER 12 | 6 |
| 17 | 425-34902 | SPRING WASHER 12 | 8 |
| 18 | 425-34902 | SPRING WASHER 12 | 4 |
| 19 | 50282396 | SPRING WASHER 16 | 8 |
| 20 | 50282516 | BOLT W/WASHER M10X25 | 6 |
| 21 | 50282551 | BOLT M12X 35 | 4 |
| 22 | 50282551 | BOLT M12X 35 | 3 |
| 23 | 50284109 | BOLT 10.9 M12 X 4 | 3 |
| 24 | 50284857 | BOLT | 8 |
| 25 | 210-32084 | NUT 12 | 8 |

Z27 - COMPACT EXCAVATOR

FIG. 10 - RADIATOR SHROUD

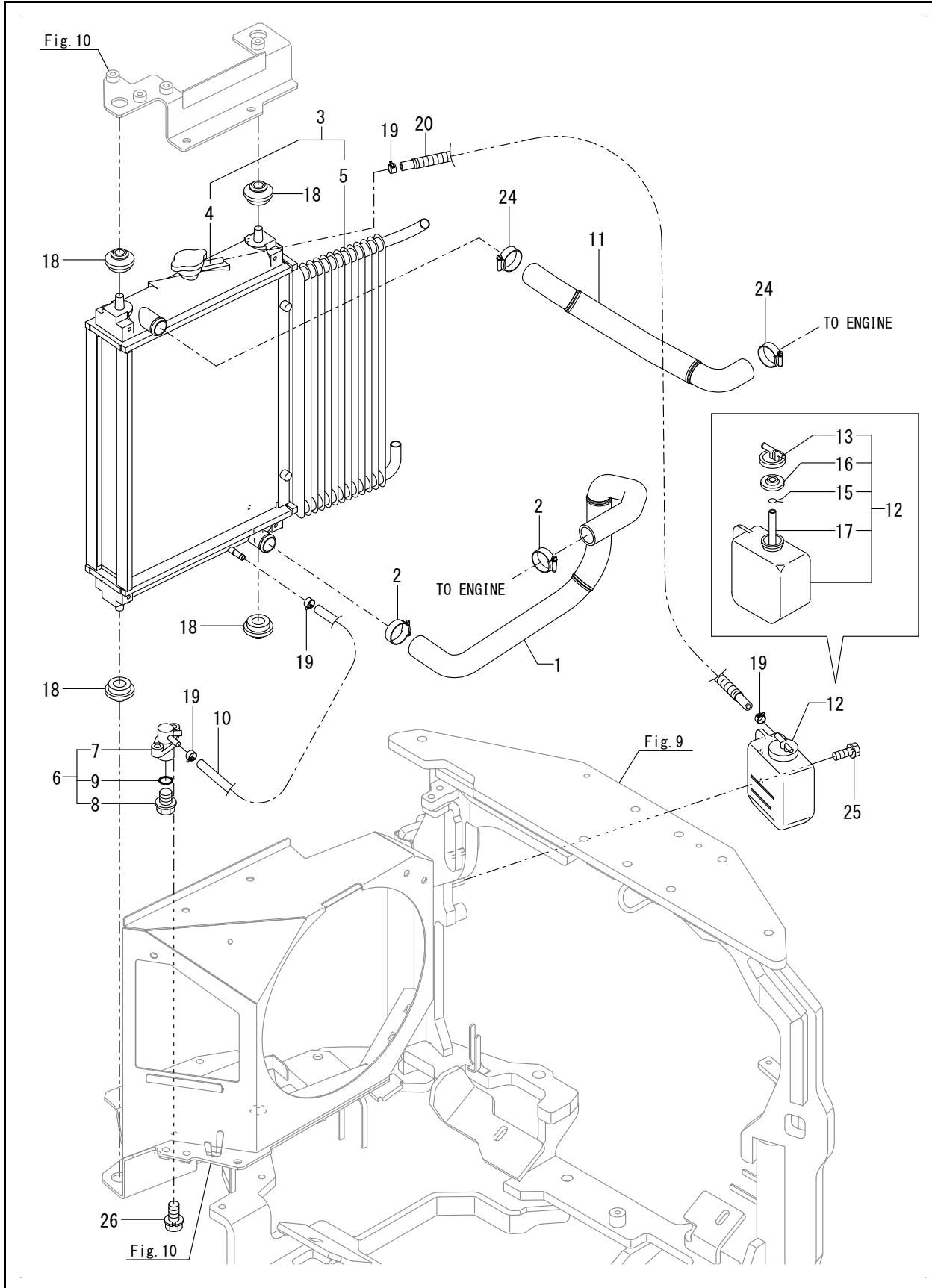


Z27 - COMPACT EXCAVATOR
FIG. 10 - RADIATOR SHROUD

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284474 | SEAL,SHROUD | 1 |
| 2 | 50284476 | MAT | 1 |
| 3 | 50284487 | SEAL, SHROUD | 1 |
| 4 | 50284489 | SHROUD ASSY | 1 |
| 5 | 50284474 | SEAL,SHROUD | 1 |
| 6 | 50284475 | RUBBER,SEAL 660 | 1 |
| 8 | 50284787 | EV A, SHROUD | 1 |
| 9 | 50284788 | EV B,SHROUD | 1 |
| 10 | 50284789 | EV C,SHROUD | 1 |
| 11 | 50284790 | EV D,SHROUD | 1 |
| 12 | 50281138 | RUBBER,SEAL 120 | 1 |
| 13 | 50284791 | COVER ASSY,SHROUD | 1 |
| 15 | 50284792 | EV A,COVER | 1 |
| 16 | 50284490 | BRACKET ASSY | 1 |
| 17 | 50284494 | GUARD A,FAN | 1 |
| 18 | 50281057 | SEAL | 1 |
| 19 | 50284003 | BAND | 2 |
| 20 | 50282365 | HOLDER, ROD 8 | 1 |
| 21 | 50284558 | COVER ASSY, SILENCER | 1 |
| 23 | 50284555 | GLASSWOOL C | 1 |
| 24 | 50284556 | GLASSWOOL D | 1 |
| 25 | 50284557 | GLASSWOOL E | 1 |
| 26 | 50284217 | SPACER | 1 |
| 27 | 50282387 | WASHER 10 | 1 |
| 28 | 50282514 | BOLT M10X 16 | 3 |
| 29 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 30 | 50282515 | BOLT W/WASHER M10X20 | 3 |
| 31 | 50282515 | BOLT W/WASHER M10X20 | 3 |
| 32 | 50282516 | BOLT W/WASHER M10X25 | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 11 - RADIATOR & SUB-TANK



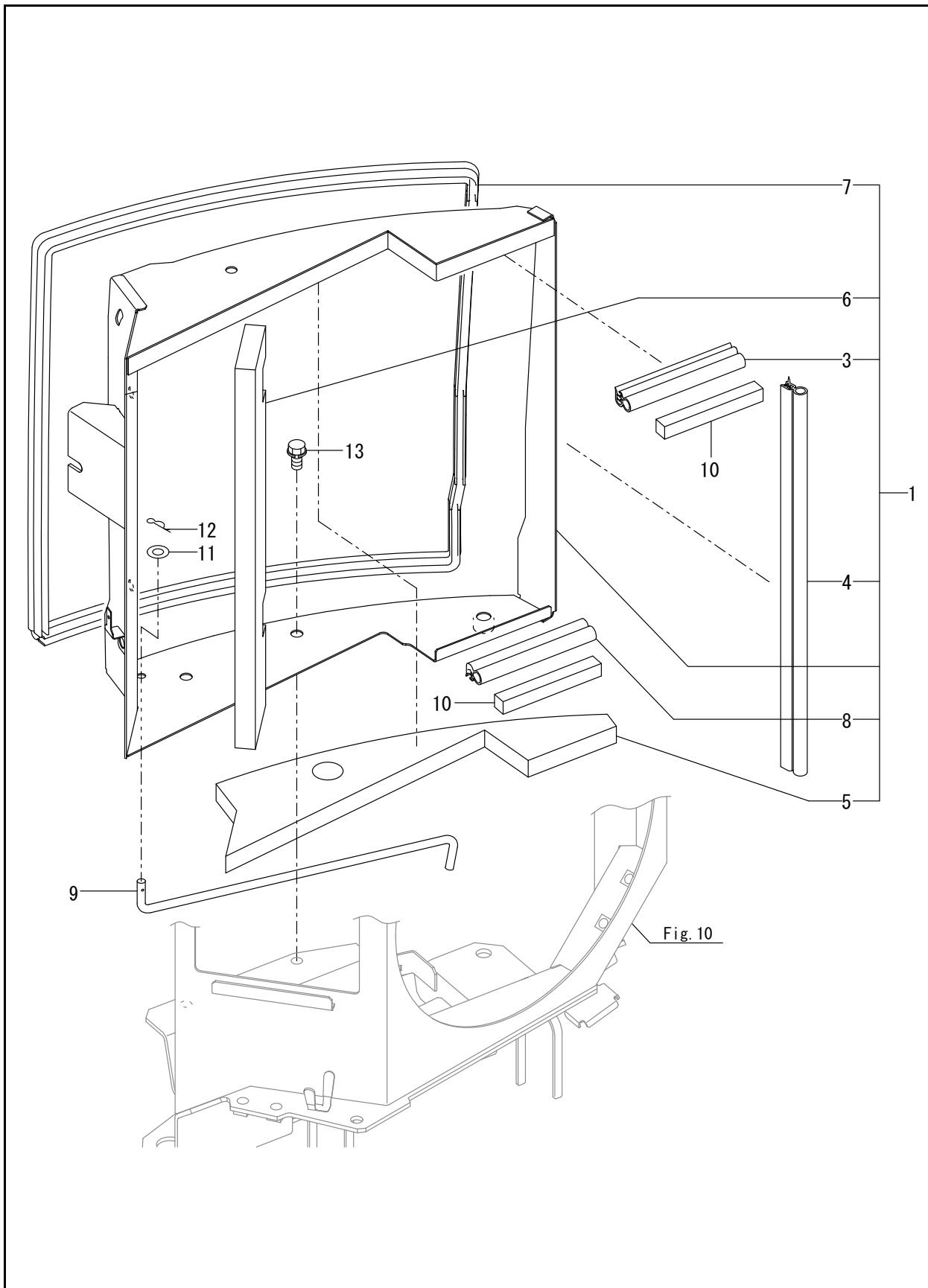
Z27 - COMPACT EXCAVATOR
FIG. 11 - RADIATOR & SUB-TANK

| Ref. | No. | Part No. | Description | Qty. |
|------|-----------|---|-------------|------|
| 1 | 50285110 | HOSE,CW-T A (w/canopy) * | | 1 |
| 2 | 50282430 | CLIP 41,HOSE (w/canopy) * | | 2 |
| 3 | 50284481 | RADI & OIL COOLER ASSY | | 1 |
| 4 | 50284482 | RADIATOR | | 1 |
| 5 | 50284484 | OILCOOLER | | 1 |
| 6 | 50281046 | COCK ASSY,2-WAY | | 1 |
| 7 | 50281047 | BODY | | 1 |
| 8 | 50280728 | PLUG | | 1 |
| 9 | 425-34744 | O-RING 1A P-16.0 | | 1 |
| 10 | 50282710 | HOSE | | 1 |
| 11 | 50285112 | HOSE,CW-T B | | 1 |
| 12 | 50284191 | TANK ASSY (use with label 17A) | | 1 |
| 13 | 186359 | CAP | | 1 |
| 15 | 186461 | CLAMP | | 1 |
| 16 | 186361 | GASKET | | 1 |
| 17 | 50284845 | PIPE 7 X 130 | | 1 |
| 17A | 50281458 | LABEL, SUB-TANK US (see Page 4, Page 6) | | 1 |
| 18 | 50282346 | RUBBER, RADIATOR | | 4 |
| 19 | 425-34916 | CLAMP 12 | | 4 |
| 20 | 50282345 | PIPE ASSY, FUEL | | 1 |
| 24 | 50282430 | CLIP 41,HOSE | | 2 |
| 25 | 50284095 | BOLT M6 X 20 | | 2 |
| 26 | 50282507 | BOLT W/WASHER M8X20 | | 2 |

NOTE: * see Fig. 28 for cabin application

Z27 - COMPACT EXCAVATOR

FIG. 12 - DUCT



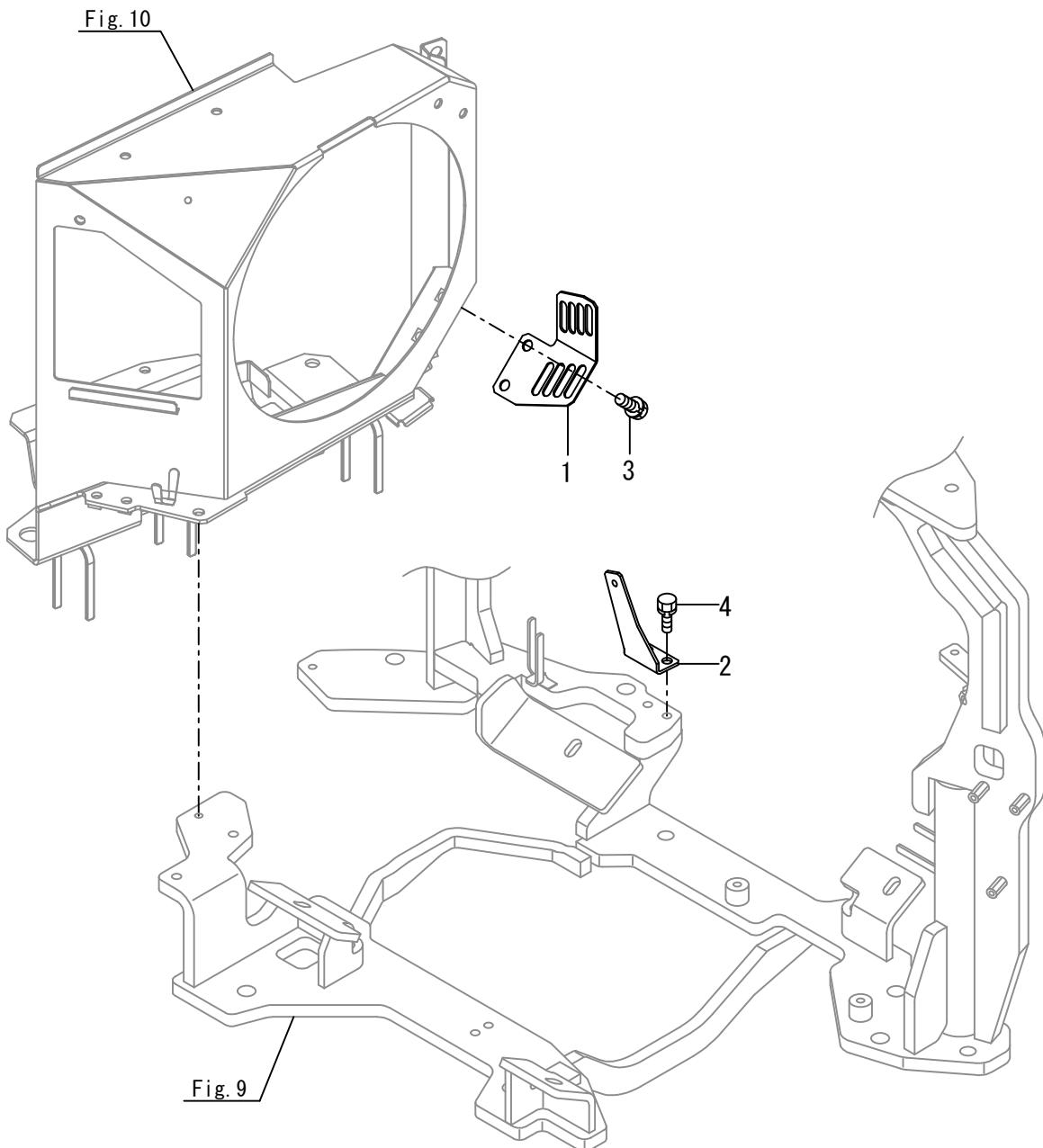
Z27 - COMPACT EXCAVATOR
FIG. 12 - DUCT

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284468 | DUCT ASSY,EX | 1 |
| 3 | 50284265 | SEAL B,RADIATOR | 1 |
| 4 | 50284315 | RUBBER, SEAL 480 | 1 |
| 5 | 50284793 | EV A,DUCT | 1 |
| 6 | 50284794 | EV B,DUCT | 1 |
| 7 | 50284491 | SEAL 1800 | 1 |
| 8 | 50284492 | RUBBER,SEAL 135 | 1 |
| 9 | 50283402 | HOOK | 1 |
| 10 | 50281057 | SEAL | 2 |
| 11 | 50282380 | WASHER 8, POLISHED | 1 |
| 12 | 50282415 | SNAP PIN (JASO 8) | 1 |
| 13 | 50282515 | BOLT W/WASHER M10X20 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 13 - FAN GUARD



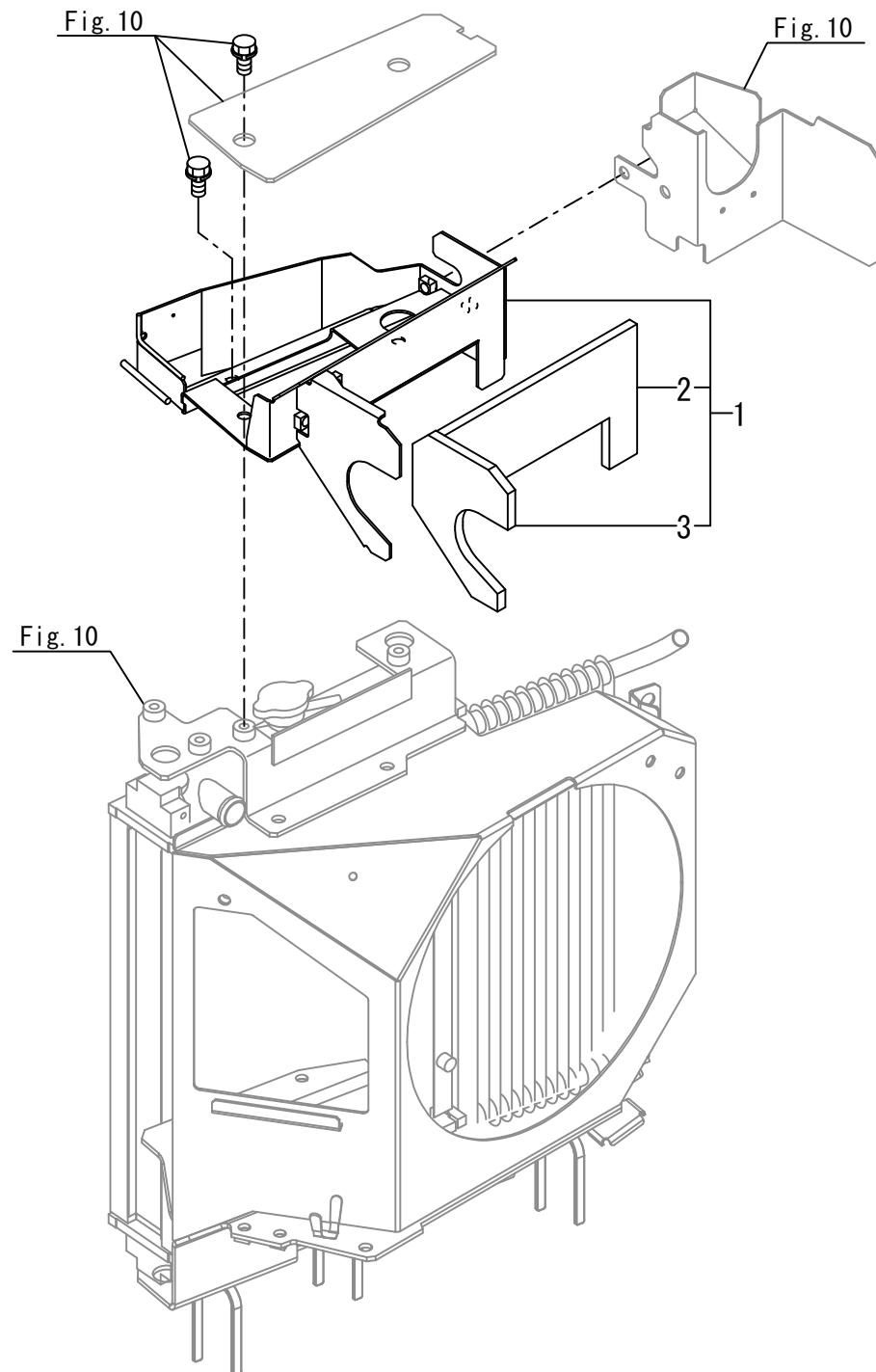
Z27 - COMPACT EXCAVATOR
FIG. 13 - FAN GUARD

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284495 | GUARD B,FAN | 1 |
| 2 | 50284797 | PLATE,HOSE GUIDE | 1 |
| 3 | 50282514 | BOLT M10X 16 | 2 |
| 4 | 50282516 | BOLT W/WASHER M10X25 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 14 - DUCT BRACKET



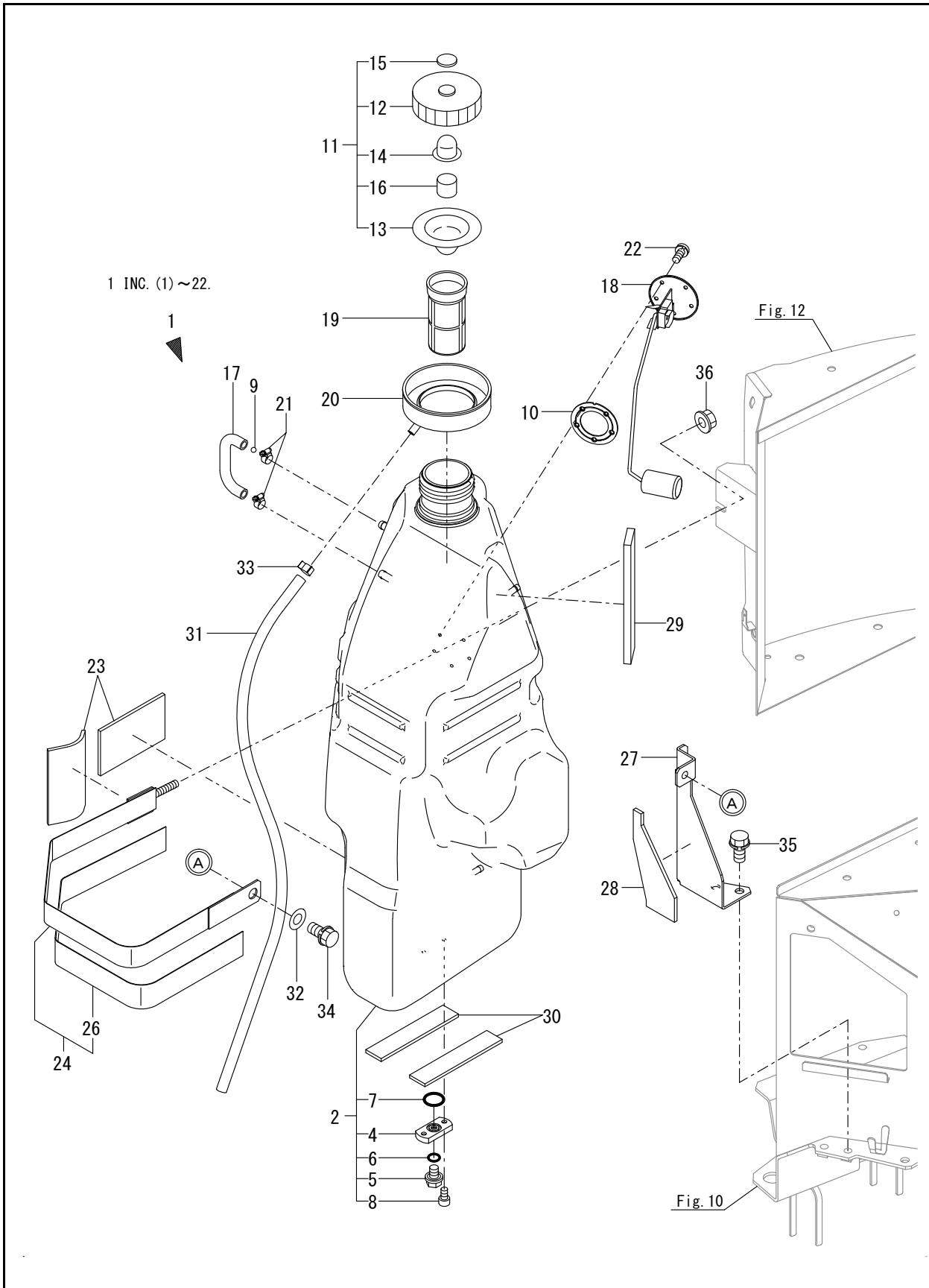
Z27 - COMPACT EXCAVATOR
FIG. 14 - DUCT BRACKET

Ref.

| No. | Part No. | Description | Qty. |
|------------|-----------------|--|-------------|
| 1 | 50284478 | BRACKET ASSY,DUCT (use with labels 4A, 4B) | 1 |
| 2 | 50284479 | GLASSWOOL A,DUCT | 1 |
| 3 | 50284480 | GLASSWOOL B,DUCT | 1 |
| 4A | 50281459 | LABEL,ANTI-FREEZING (see Page 4, Page 6) | 1 |
| 4B | 50281027 | LABEL, RADIATOR US (see Page 4, Page 6) | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 15 - FUEL TANK



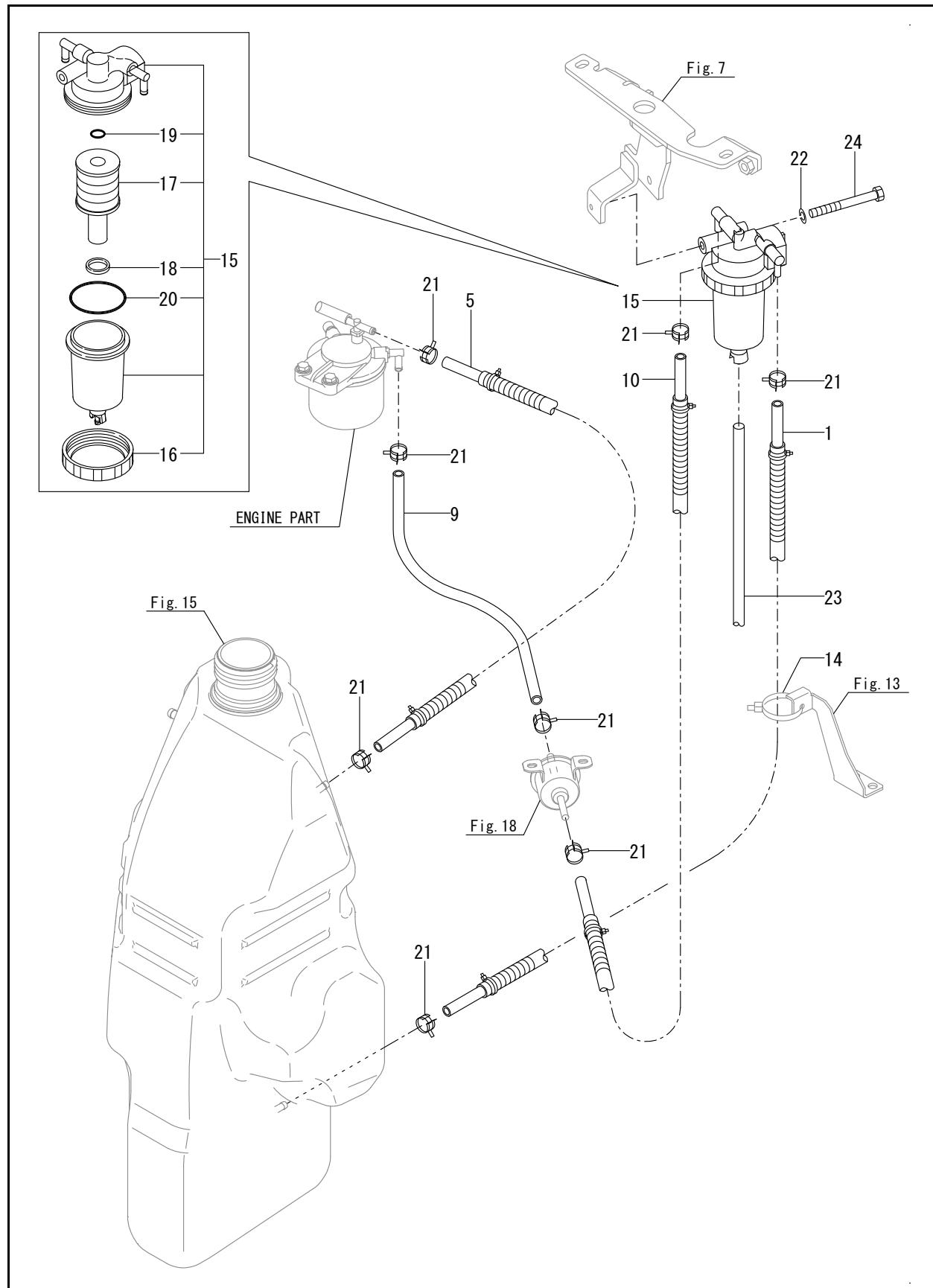
Z27 - COMPACT EXCAVATOR
FIG. 15 - FUEL TANK

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50285165 | TANK ASSY, FUEL | 1 |
| 2 | 50284496 | FO TANK ASSY | 1 |
| 4 | 50284266 | BLOCK,DRAIN | 1 |
| 5 | 50284846 | PLUG 8 | 1 |
| 6 | 50284075 | O-RING 1A P-9.0 | 1 |
| 7 | 425-34744 | O-RING 1A P-16.0 | 1 |
| 8 | 50284132 | BOLT, M6 X 10 | 2 |
| 9 | 50281060 | FLOAT | 1 |
| 10 | 50280854 | GASKET | 1 |
| 11 | 50284256 | FUEL CAP | 1 |
| 12 | 50284257 | CAP | 1 |
| 13 | 50284258 | GASKET | 1 |
| 14 | 50284259 | GASKET | 1 |
| 15 | 50284260 | WASHER | 1 |
| 16 | 50284261 | SPONGE | 1 |
| 17 | 50281131 | HOSE, FUEL GAUGE | 1 |
| 18 | 50284795 | GAUGE, FUEL | 1 |
| 19 | 50282836 | FILTER FUEL | 1 |
| 20 | 50282953 | CUP,FUEL OIL | 1 |
| 21 | 425-34918 | CLAMP 13 | 2 |
| 22 | 425-36271 | SCREW M 5 X 12 | 5 |
| 23 | 50284255 | PLATE A | 2 |
| 24 | 50284497 | FO CLAMP ASSY | 1 |
| 26 | 50284498 | RUBBER,CLAMP | 1 |
| 27 | 50284499 | BRACKET ASSY | 1 |
| 28 | 50284502 | RUBBER PLATE A | 1 |
| 29 | 50284503 | RUBBER PLATE B | 1 |
| 30 | 50284319 | RUBBER PLATE D,FO | 2 |
| 31 | 50283407 | HOSE | 1 |
| 32 | 138111 | WASHER/POLISHED | 1 |
| 33 | 50282437 | CLAMP 13,HOSE | 1 |
| 34 | 50282515 | BOLT W/WASHER M10X20 | 1 |
| 35 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 36 | 50282578 | U-NUT M10 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 16 - FUEL LINE



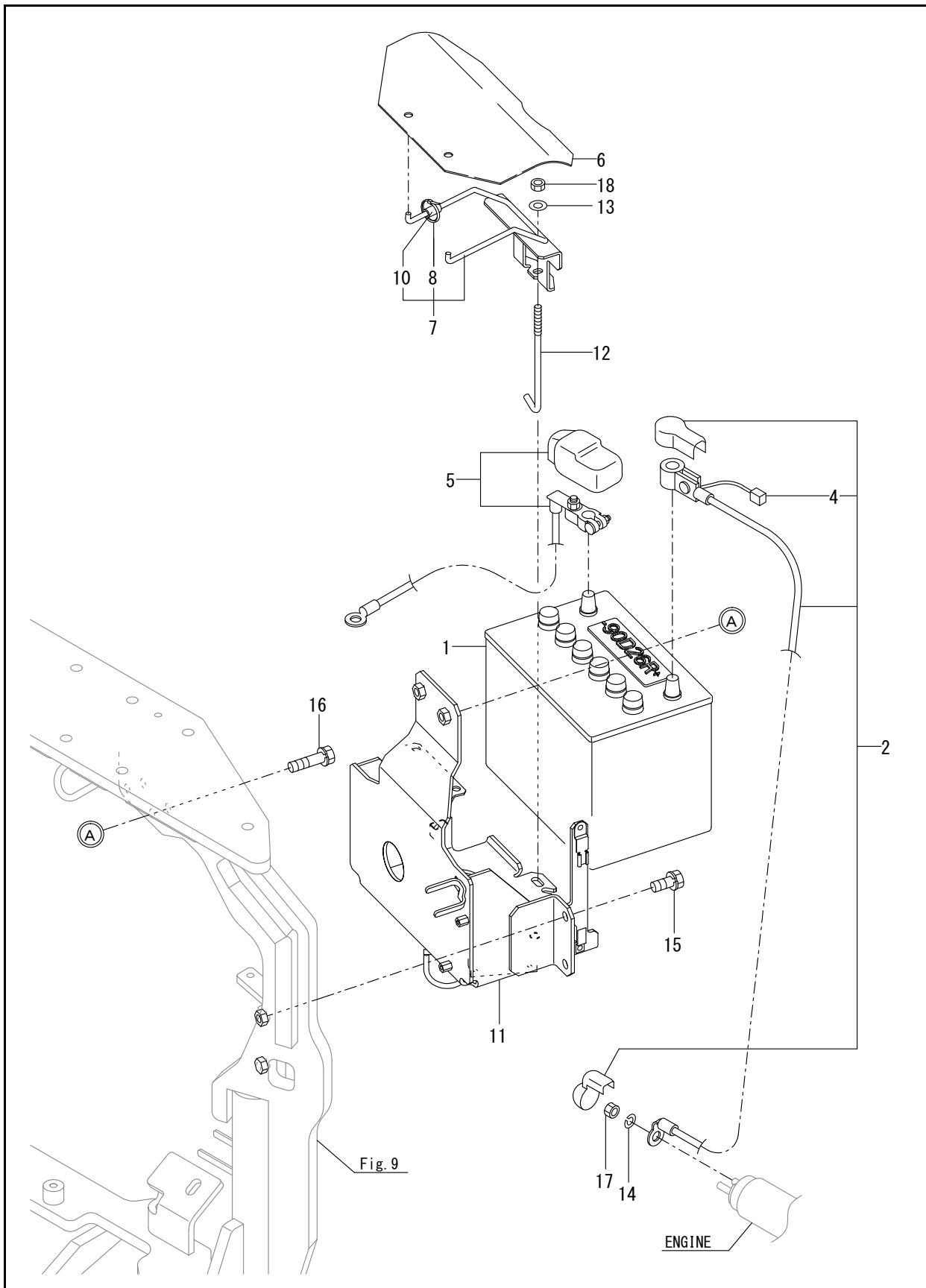
Z27 - COMPACT EXCAVATOR
FIG. 16 - FUEL LINE

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50284501 | HOSE ASSY,FO 1550 | 1 |
| 5 | 50284505 | FO HOSE ASSY,1750 | 1 |
| 9 | 50284199 | PIPE (B), FUEL | 1 |
| 10 | 50284506 | PIPE ASSY, FUEL 800 | 1 |
| 14 | 50284003 | BAND | 1 |
| 15 | 50282349 | SEPARATOR ASSY,WATER | 1 |
| 16 | 425-34924 | RING, RETAINING | 1 |
| 17 | 186340 | FILTER | 1 |
| 18 | 50286600 | FLOAT | 1 |
| 19 | 425-34744 | O-RING 1A P-16.0 | 1 |
| 20 | 425-34927 | O-RING 1A G65 | 1 |
| 21 | 425-34916 | CLAMP 12 | 8 |
| 22 | 50282392 | WASHER, 8 | 1 |
| 23 | 50284066 | PIPE,VINYL 5 | 1 |
| 24 | 50284116 | BOLT M8 X 70 PLATED | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 17 - BATTERY



Z27 - COMPACT EXCAVATOR
FIG. 17 - BATTERY

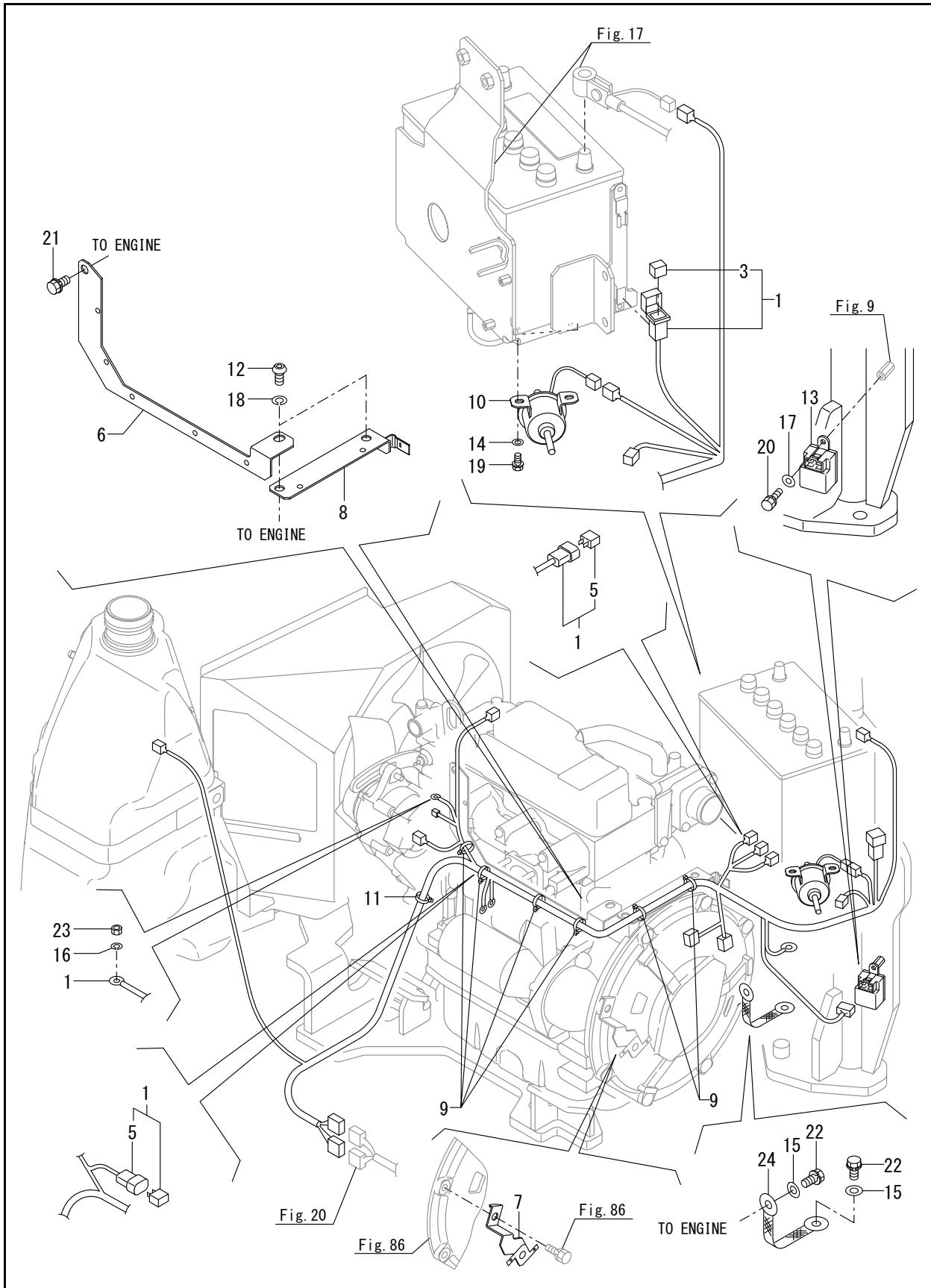
Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | N/A | BATTERY * | 1 |
| 2 | 50284508 | CORD ASSY,BATTERY | 1 |
| 4 | 50283995 | HARNESS C | 1 |
| 5 | 50284510 | CORD BATTERY | 1 |
| 6 | 50284773 | COVER,BATTERY | 1 |
| 7 | 50284511 | CLAMP ASSY, BATTERY | 1 |
| 8 | 50280798 | BAND 300 | 1 |
| 10 | 50283329 | HOSE,CLAMP | 1 |
| 11 | 50284513 | MOUNT BATTERY ASSY | 1 |
| 12 | 50284514 | ROD,BATTERY CLAMP | 1 |
| 13 | 50282380 | WASHER 8, POLISHED | 1 |
| 14 | 50282392 | WASHER, 8 | 1 |
| 15 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 16 | 50282518 | BOLT M10X 35 | 2 |
| 17 | 50282596 | NUT M 8 | 1 |
| 18 | 50282596 | NUT M 8 | 2 |

NOTE: * Purchase locally. Group Size 34 (alt. 63); 630 CCA.

Z27 - COMPACT EXCAVATOR

FIG. 18 - ELECTRIC PART (AROUND ENGINE)



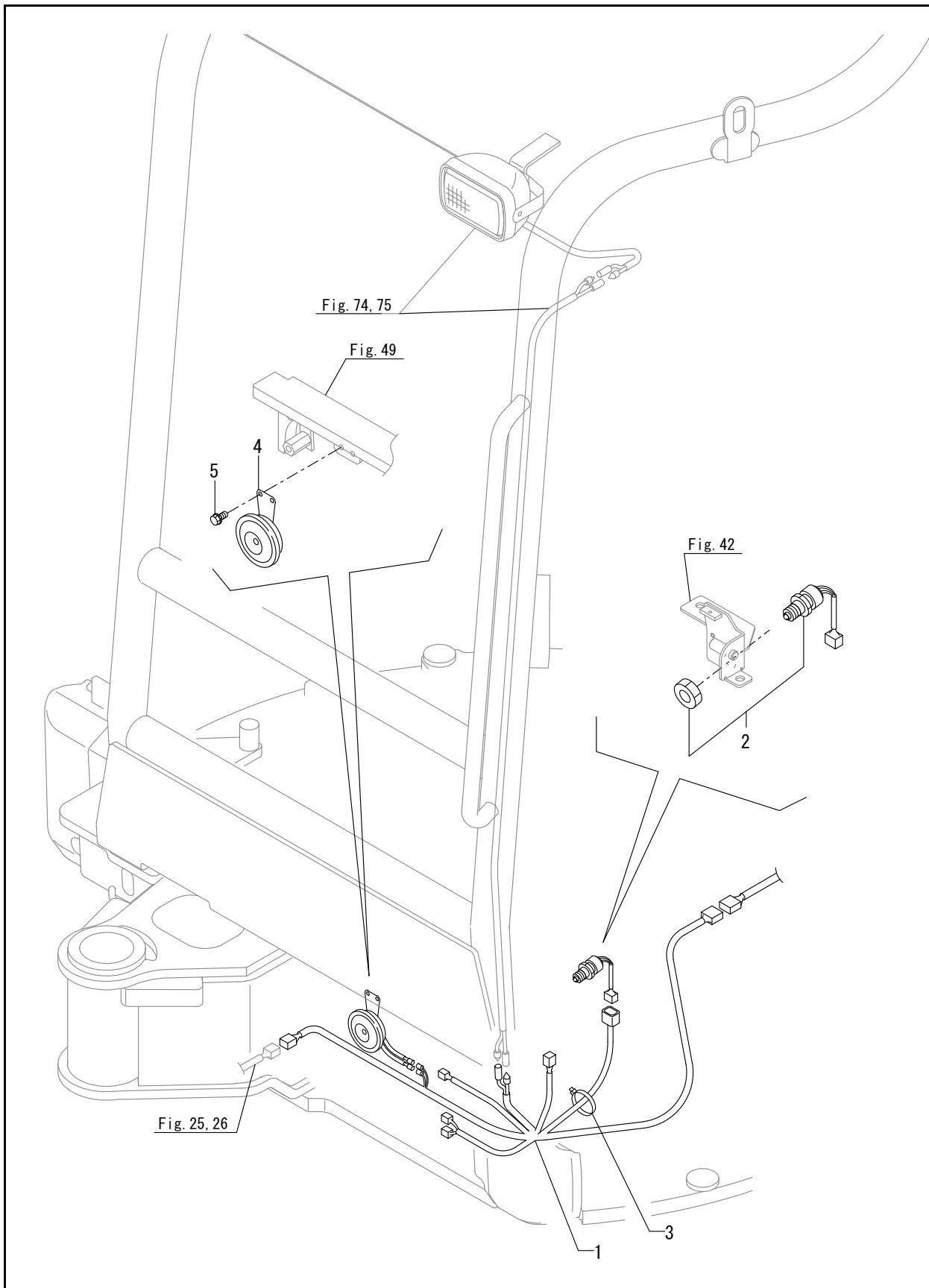
Z27 - COMPACT EXCAVATOR
FIG. 18 - ELECTRIC PART (AROUND ENGINE)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50285151 | HARNESS ASSY,A | 1 |
| 3 | 50282955 | FUSE,SLOW BLOW (50A) | 1 |
| 5 | 50284838 | DIODE, 1.5A | 2 |
| 6 | 50285117 | SUPPORT,HARNESS A | 1 |
| 7 | 50285118 | SUPPORT,A CONNECTOR | 1 |
| 8 | 50285119 | SUPPORT,B CONNECTOR | 1 |
| 9 | 50284003 | BAND | 10 |
| 10 | 186483 | FUEL PUMP | 1 |
| 11 | 50282352 | BAND | 1 |
| 12 | 50281073 | BOLT M 10X20 | 2 |
| 13 | 50280735 | TIMER | 1 |
| 14 | 50282379 | WASHER 6, POLISHED | 2 |
| 15 | 138111 | WASHER/POLISHED | 2 |
| 16 | 425-34891 | SPRING WASHER 6 | 1 |
| 17 | 425-34891 | SPRING WASHER 6 | 1 |
| 18 | 50282393 | SPRING WASHER 10 | 2 |
| 19 | 50282502 | BOLT M 6X 16 | 2 |
| 20 | 50282502 | BOLT M 6X 16 | 1 |
| 21 | 50282514 | BOLT M10X 16 | 1 |
| 22 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 23 | 138143 | NUT | 1 |
| 24 | 50284878 | WIRE, EARTH | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 19 - ELECTRIC PART (AROUND FRAME)

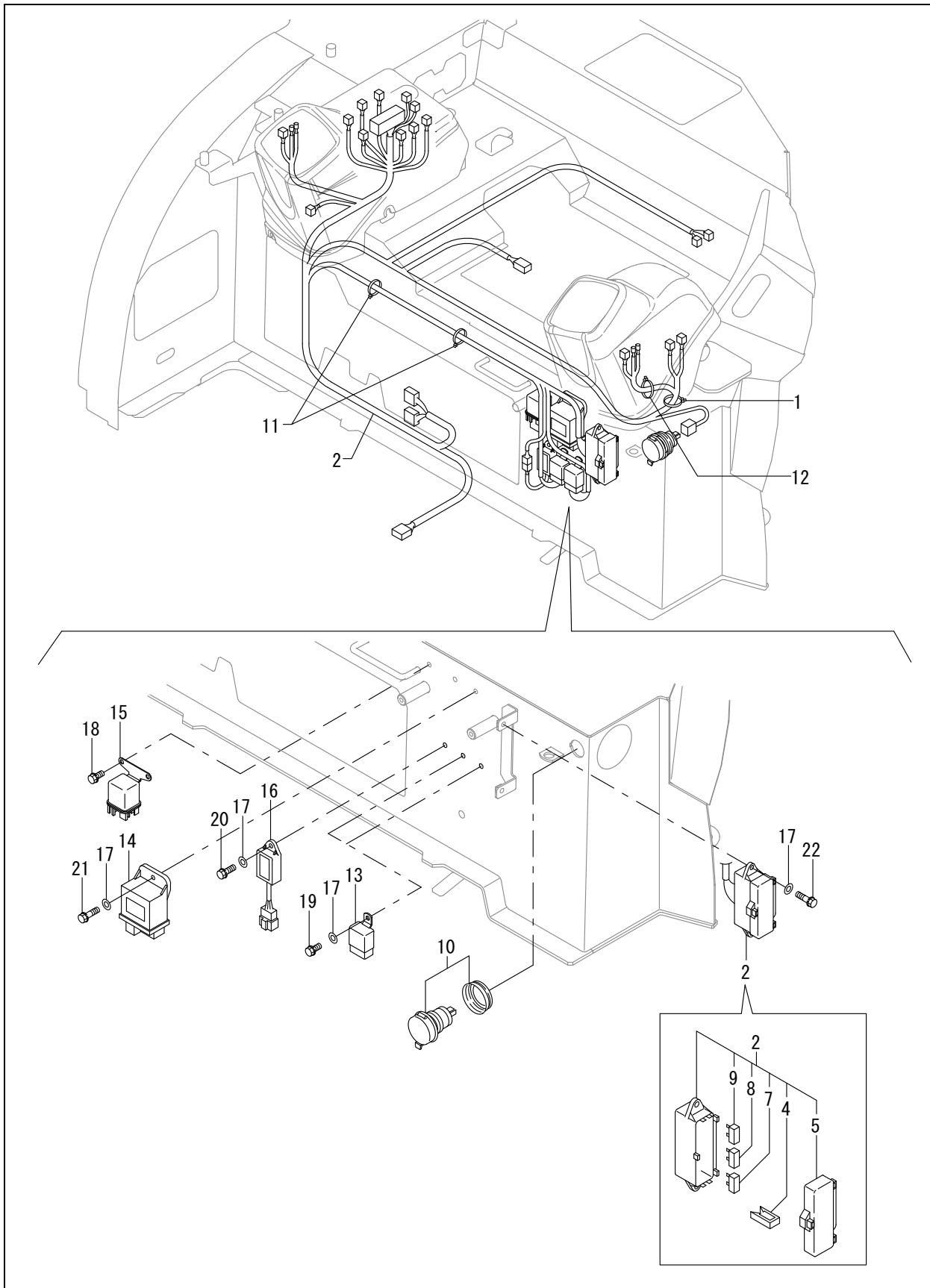


Z27 - COMPACT EXCAVATOR
FIG. 19 - ELECTRIC PART (AROUND FRAME)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------|------|
| 1 | 50284516 | HARNESS C | 1 |
| 2 | 50284018 | SWITCH ASSY | 1 |
| 3 | 50282352 | BAND | 1 |
| 4 | 50282351 | HORN | 1 |
| 5 | 50282501 | BOLT M 6X 12 | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 20 - ELECTRIC PART (AROUND SEAT)



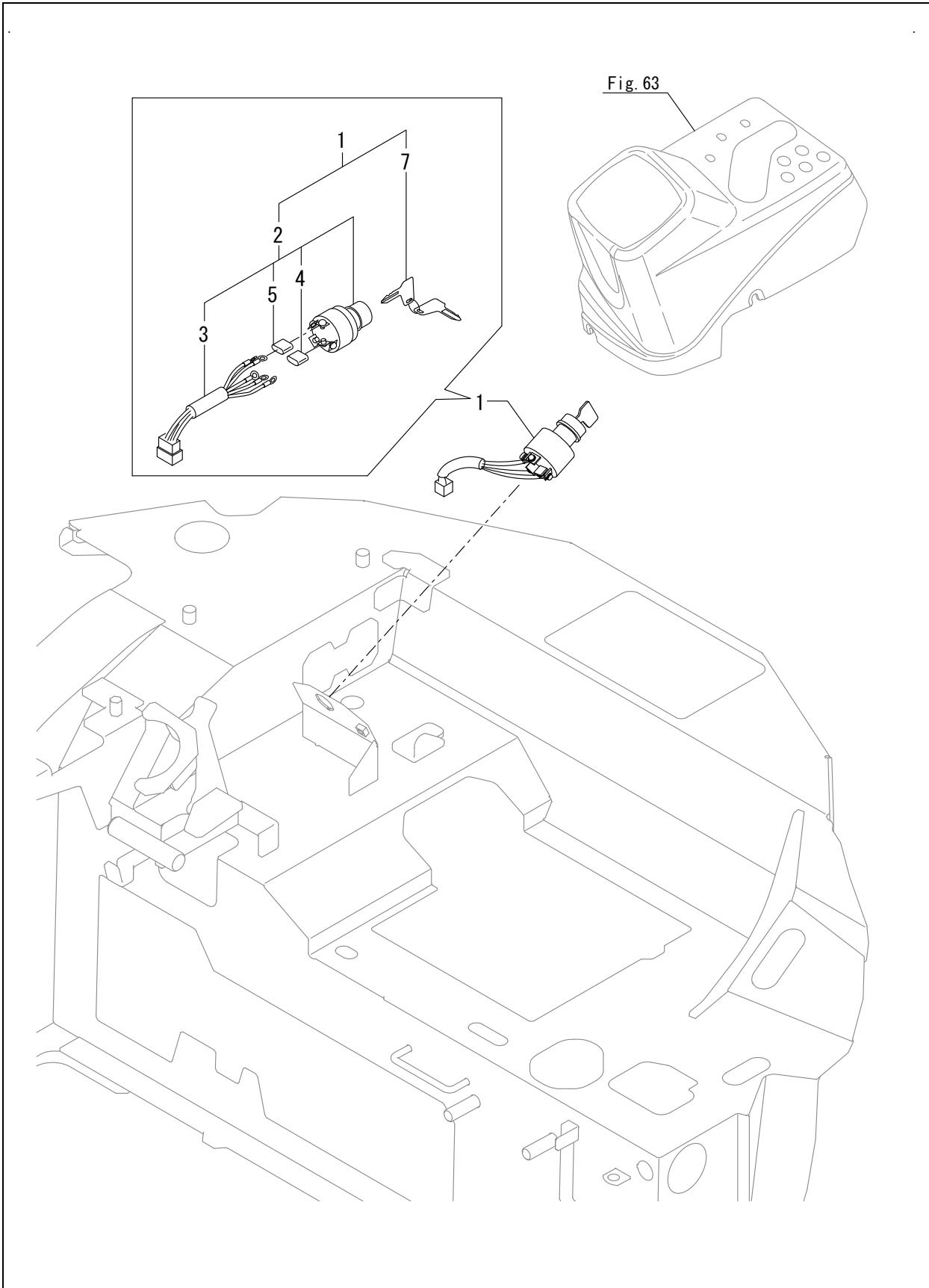
Z27 - COMPACT EXCAVATOR
FIG. 20 - ELECTRIC PART (AROUND SEAT)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------|------|
| 1 | 50280798 | BAND 300 | 1 |
| 2 | 50283918 | HARNESS ASSY,B EX | 1 |
| 4 | 50280906 | PULLER | 1 |
| 5 | 50280933 | COVER | 1 |
| 7 | 50282604 | FUSE, 5A | 2 |
| 8 | 50284141 | FUSE, 15A | 6 |
| 9 | 50282606 | FUSE B30 | 2 |
| 10 | 50281499 | SOCKET ASSY | 1 |
| 11 | 50284003 | BAND | 2 |
| 12 | 50282352 | BAND | 1 |
| 13 | 50282675 | RELAY | 2 |
| 14 | 186341 | RELAY SAFETY | 1 |
| 15 | 50282677 | RELAY ASSY, GLOW | 1 |
| 16 | 138089 | TIMER | 1 |
| 17 | 50282379 | WASHER 6, POLISHED | 6 |
| 18 | 50282501 | BOLT M 6X 12 | 2 |
| 19 | 50282501 | BOLT M 6X 12 | 2 |
| 20 | 50282502 | BOLT M 6X 16 | 1 |
| 21 | 50284095 | BOLT M6 X 20 | 1 |
| 22 | 50284095 | BOLT M6 X 20 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 21 - ELECTRIC PART (STARTING SWITCH)



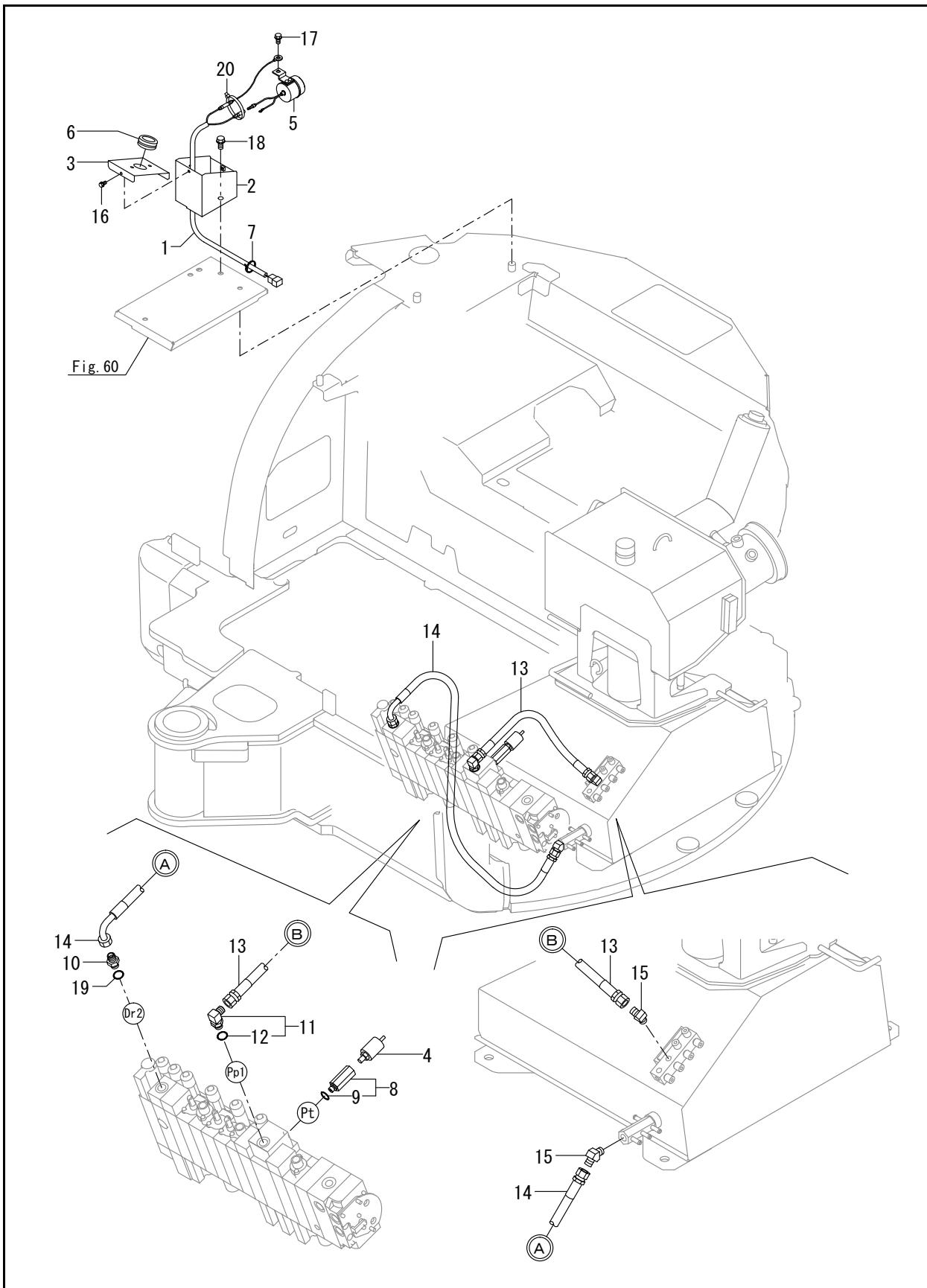
Z27 - COMPACT EXCAVATOR
FIG. 21 - ELECTRIC PART (STARTING SWITCH)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 22 - ELECTRIC PART (TRAVEL ALARM) (CANOPY SPEC.)



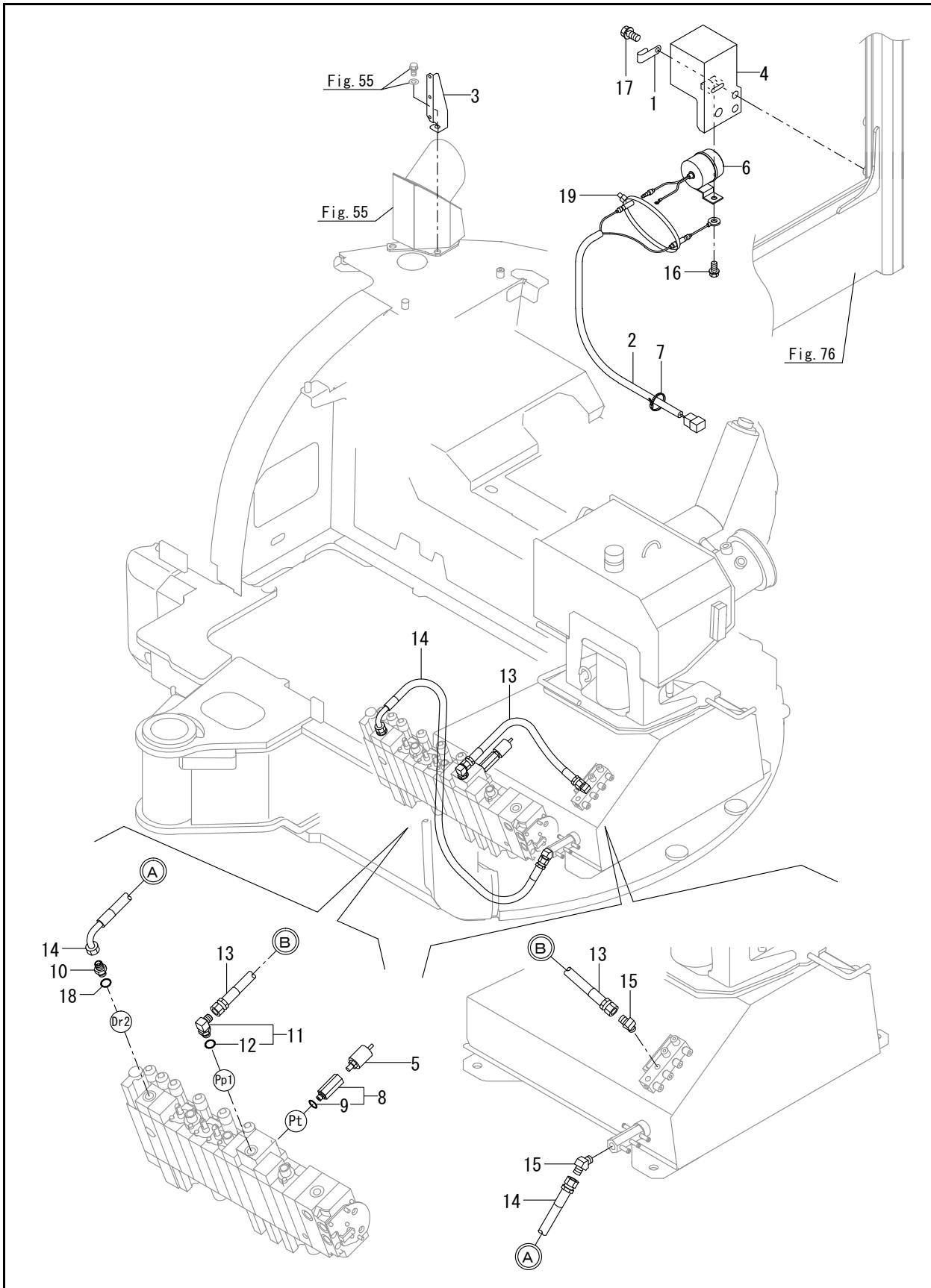
Z27 - COMPACT EXCAVATOR**FIG. 22 - ELECTRIC PART (TRAVEL ALARM) (CANOPY SPEC.)**

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284519 | HARNESS, TRAVEL | 1 |
| 2 | 50283428 | COVER | 1 |
| 3 | 50283429 | COVER, FLASHER | 1 |
| 4 | 50281182 | PRESSER SWITCH, ASSY | 1 |
| 5 | 50281317 | BUZZER, BACK | 1 |
| 6 | 50281128 | GROMMET 30 | 1 |
| 7 | 50282352 | BAND | 3 |
| 8 | 50283773 | CONNECTOR G1/8-R1/8 | 1 |
| 9 | 50282468 | O-RING 1B P-8.0 | 1 |
| 10 | 50280792 | JOINT PF1/4 | 1 |
| 11 | 50280813 | CONNECTOR ASSY, 02FF | 1 |
| 12 | 50282607 | PACKING, 11.0 | 1 |
| 13 | 50284760 | HOSE | 1 |
| 14 | 50284761 | HOSE | 1 |
| 15 | 50282443 | JOINT 45RG11/4 | 2 |
| 16 | 50282501 | BOLT M 6X 12 | 2 |
| 17 | 50282505 | BOLT M 8X 12 | 1 |
| 18 | 50282514 | BOLT M10X 16 | 2 |
| 19 | 50282607 | PACKING, 11.0 | 1 |
| 20 | 50284153 | BAND 146 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 23 - ELECTRIC PART (TRAVEL ALARM) (CABIN SPEC.)



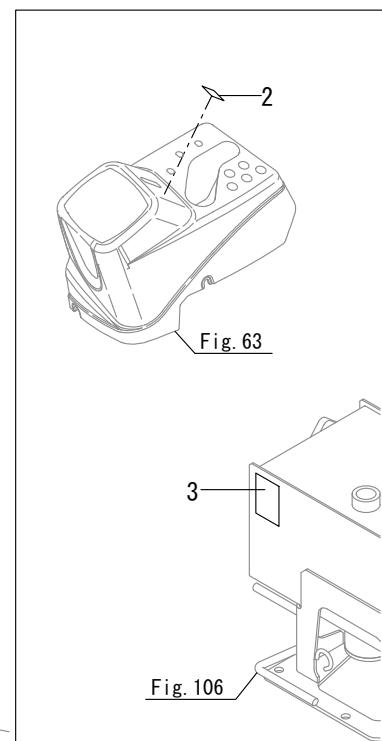
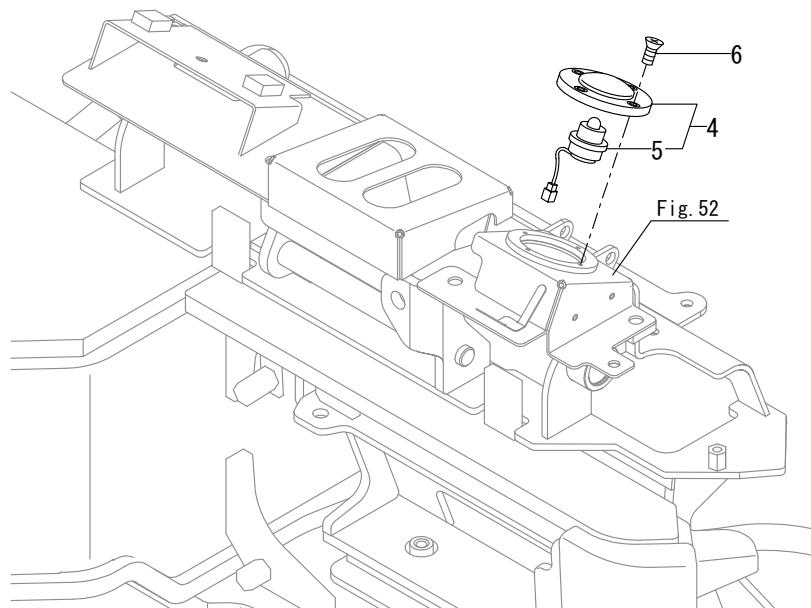
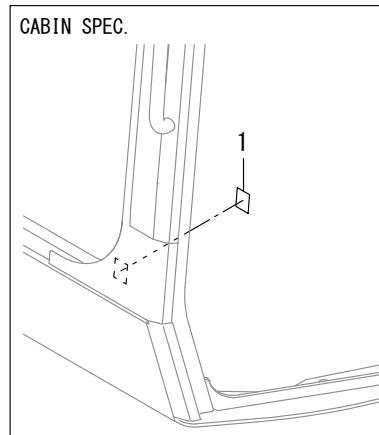
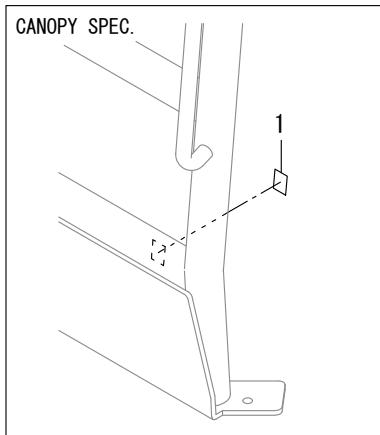
Z27 - COMPACT EXCAVATOR
FIG. 23 - ELECTRIC PART (TRAVEL ALARM) (CABIN SPEC.)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50280799 | CLAMP 10X70 | 1 |
| 2 | 50284519 | HARNESS, TRAVEL | 1 |
| 3 | 50284520 | GUIDE, HARNESS | 1 |
| 4 | 50284521 | BRACKET, BUZZER | 1 |
| 5 | 50281182 | PRESSER SWITCH, ASSY | 1 |
| 6 | 50281317 | BUZZER, BACK | 1 |
| 7 | 50282352 | BAND | 3 |
| 8 | 50283773 | CONNECTOR G1/8-R1/8 | 1 |
| 9 | 50282468 | O-RING 1B P-8.0 | 1 |
| 10 | 50280792 | JOINT PF1/4 | 1 |
| 11 | 50280813 | CONNECTOR ASSY, 02FF | 1 |
| 12 | 50282607 | PACKING, 11.0 | 1 |
| 13 | 50284760 | HOSE | 1 |
| 14 | 50284761 | HOSE | 1 |
| 15 | 50282443 | JOINT 45RG1/4 | 2 |
| 16 | 50282505 | BOLT M 8X 12 | 1 |
| 17 | 50282514 | BOLT M10X 16 | 2 |
| 18 | 50282607 | PACKING, 11.0 | 1 |
| 19 | 50284153 | BAND 146 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 24 - ELECTRIC PART (P.T.O SWITCH)

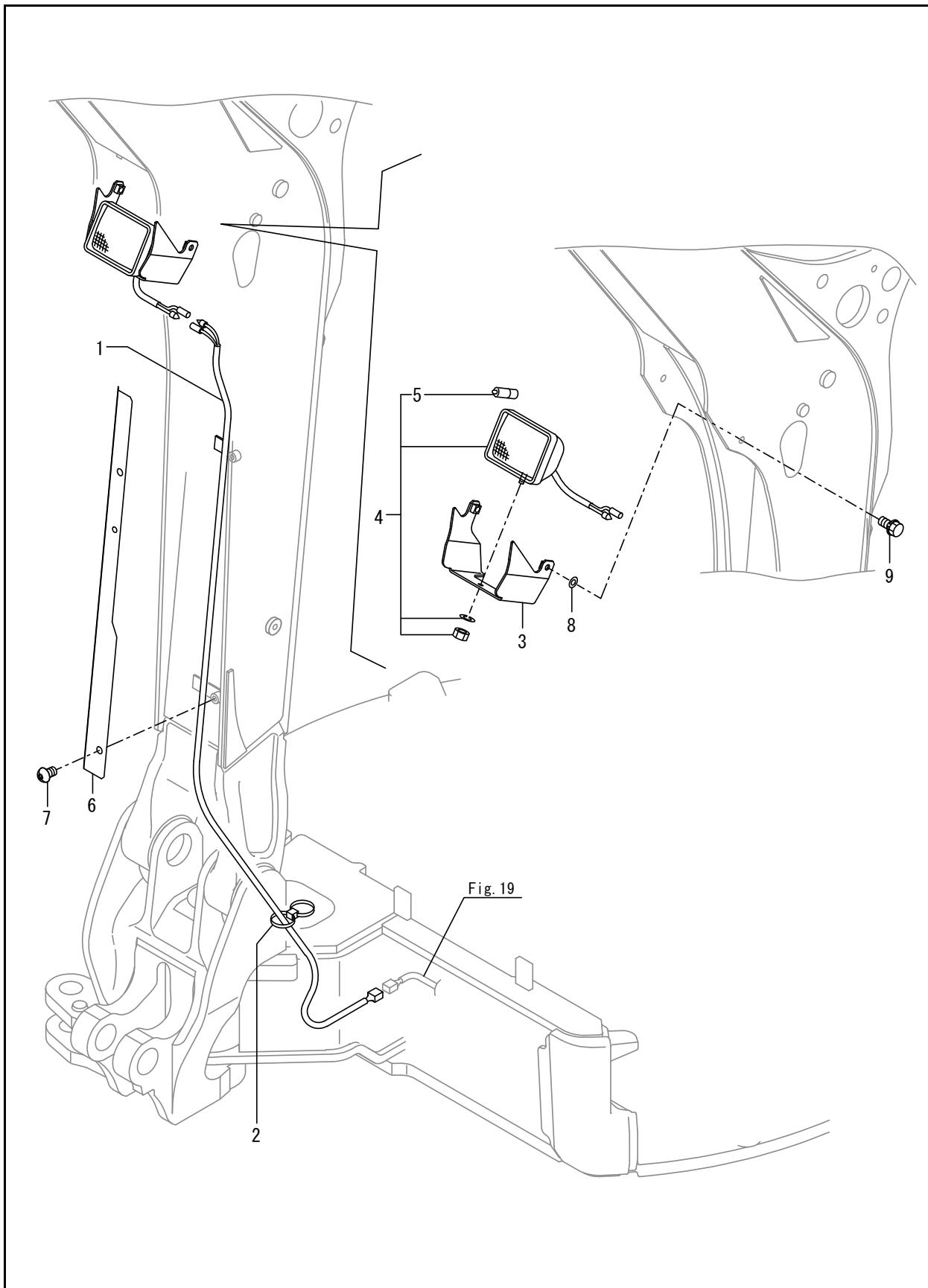


Z27 - COMPACT EXCAVATOR
FIG. 24 - ELECTRIC PART (P.T.O SWITCH)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|------------------|------|
| 1 | 50283350 | LABEL,PTO FOOT | 1 |
| 2 | 50283351 | LABEL,PTO SWITCH | 1 |
| 3 | 50283352 | LABEL,PTO SELECT | 1 |
| 4 | 50283330 | SWITCH ASSY, PTO | 1 |
| 5 | 50283331 | SAFETY SWITCH | 1 |
| 6 | 50284062 | SCREW | 4 |

Z27 - COMPACT EXCAVATOR
FIG. 25 - ELECTRIC PART (WORK LAMP)



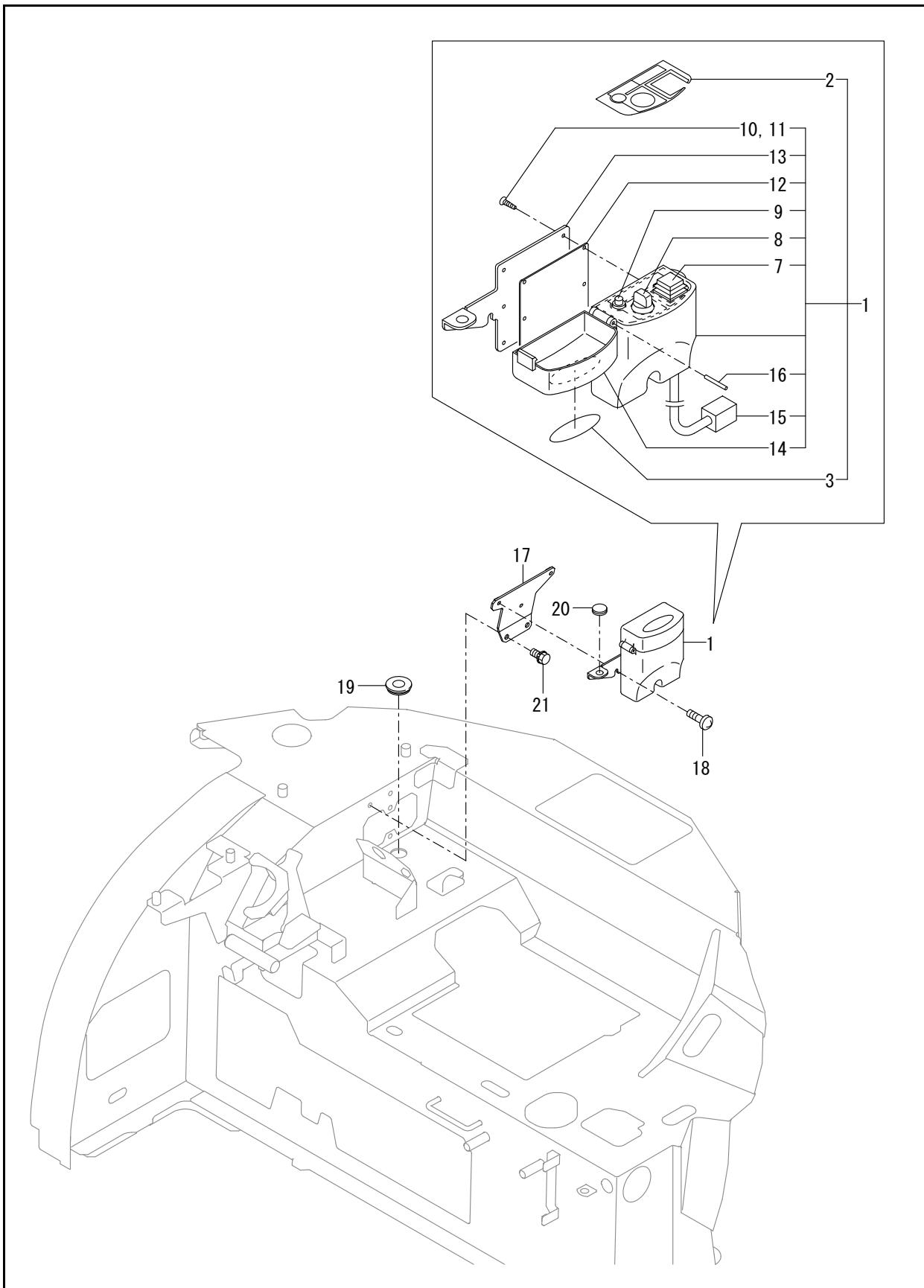
Z27 - COMPACT EXCAVATOR
FIG. 25 - ELECTRIC PART (WORK LAMP)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50285054 | HARNESS BOOM LAMP | 1 |
| 2 | 50280802 | BAND | 1 |
| 3 | 50286265 | LAMP COVER | 1 |
| 4 | 50284321 | LAMP,WORK | 1 |
| 5 | 50284239 | BULB 12V 55W | 1 |
| 6 | 50286381 | HARNESS COVER | 1 |
| 7 | 50284436 | BOLT, BUTTON | 2 |
| 8 | 138111 | WASHER/POLISHED | 2 |
| 9 | 50282516 | BOLT W/WASHER M10X25 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 27 - ELECTRIC PART (QUICK COUPLER : SWITCH BOX)



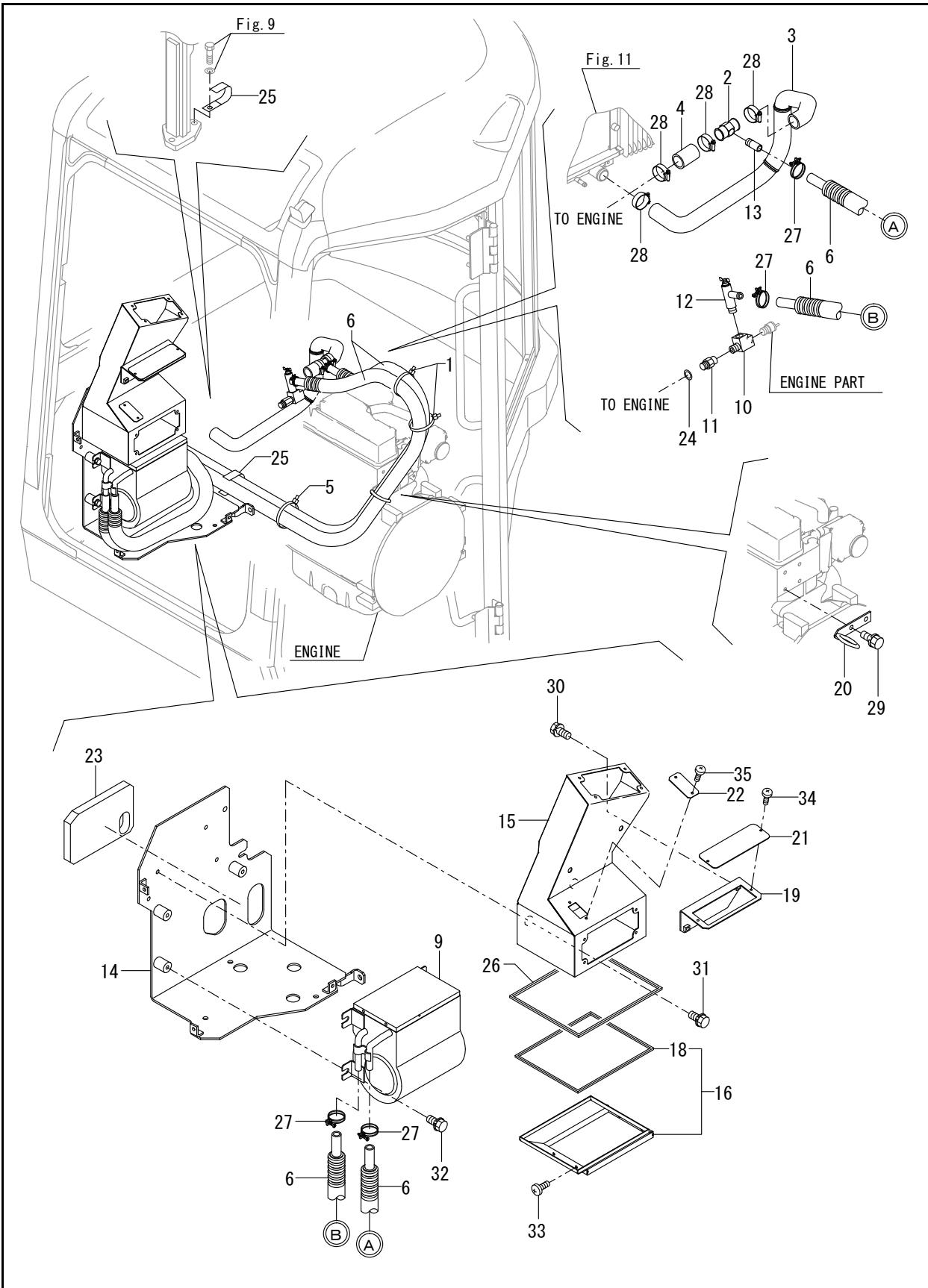
Z27 - COMPACT EXCAVATOR
FIG. 27 - ELECTRIC PART (QUICK COUPLER : SWITCH BOX)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 28 - HEATER



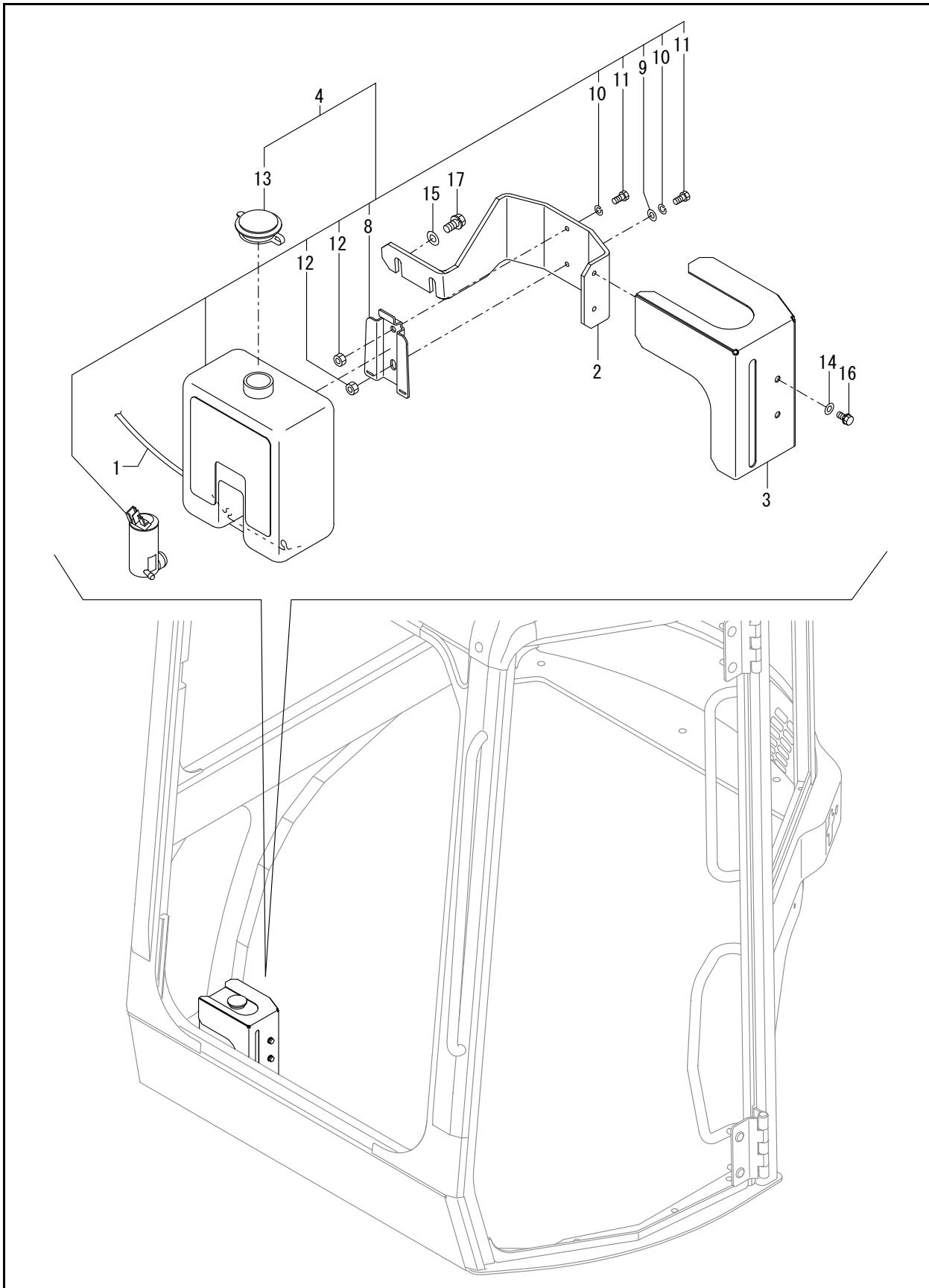
Z27 - COMPACT EXCAVATOR
FIG. 28 - HEATER

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50280798 | BAND 300 | 2 |
| 2 | 50284900 | JOINT | 1 |
| 3 | 50285115 | PIPE, C.W. | 1 |
| 4 | 50285116 | PIPE, C.W. | 1 |
| 5 | 50282838 | CLIP 400,HOSE | 1 |
| 6 | 50283433 | HOSE ASSY, HEATER | 2 |
| 9 | 50282964 | HEATER | 1 |
| 10 | 50284918 | CONNECTOR | 1 |
| 11 | 50284899 | JOINT, HEATER | 1 |
| 12 | 50281016 | VALVE ASSY, HEATER | 1 |
| 13 | 50282711 | JOINT 3/8 | 1 |
| 14 | 50283458 | BRACKET ASSY,UNIT | 1 |
| 15 | 50283460 | DUCT ASSY | 1 |
| 16 | 50283470 | DUCT, HEATER | 1 |
| 18 | 50283268 | CUSHION B,BONNET | 1 |
| 19 | 50285137 | PLATE ASSY | 1 |
| 20 | 50284545 | GUIDE, HOSE | 1 |
| 21 | 50283482 | COVER, CONTROLL | 1 |
| 22 | 50283483 | COVER, DUCT | 1 |
| 23 | 50283496 | EV,HEATER | 1 |
| 24 | 160427 | SEAL | 1 |
| 25 | 50284008 | CLAMP A,SM.&DYN.CORD | 1 |
| 26 | 50283268 | CUSHION B,BONNET | 1 |
| 27 | 50282427 | HOSE CLAMP 22 | 4 |
| 28 | 50282430 | CLIP 41,HOSE | 4 |
| 29 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 30 | 50282533 | BOLT M 8X 16 | 2 |
| 31 | 425-35026 | BOLT M8 X 25 | 2 |
| 32 | 50282538 | BOLT M10X 20 | 3 |
| 33 | 50282592 | SCREW, M4X12 | 4 |
| 34 | 50282592 | SCREW, M4X12 | 2 |
| 35 | 50282592 | SCREW, M4X12 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 29 - WINDOW WASHER



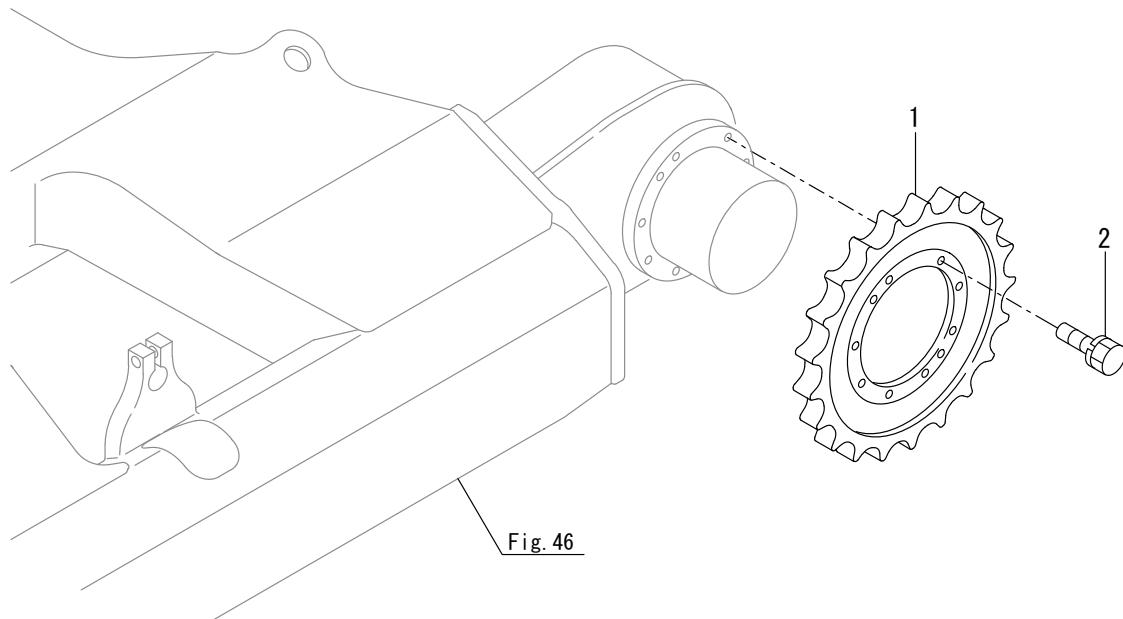
Z27 - COMPACT EXCAVATOR
FIG. 29 - WINDOW WASHER

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 30 - SPROCKET



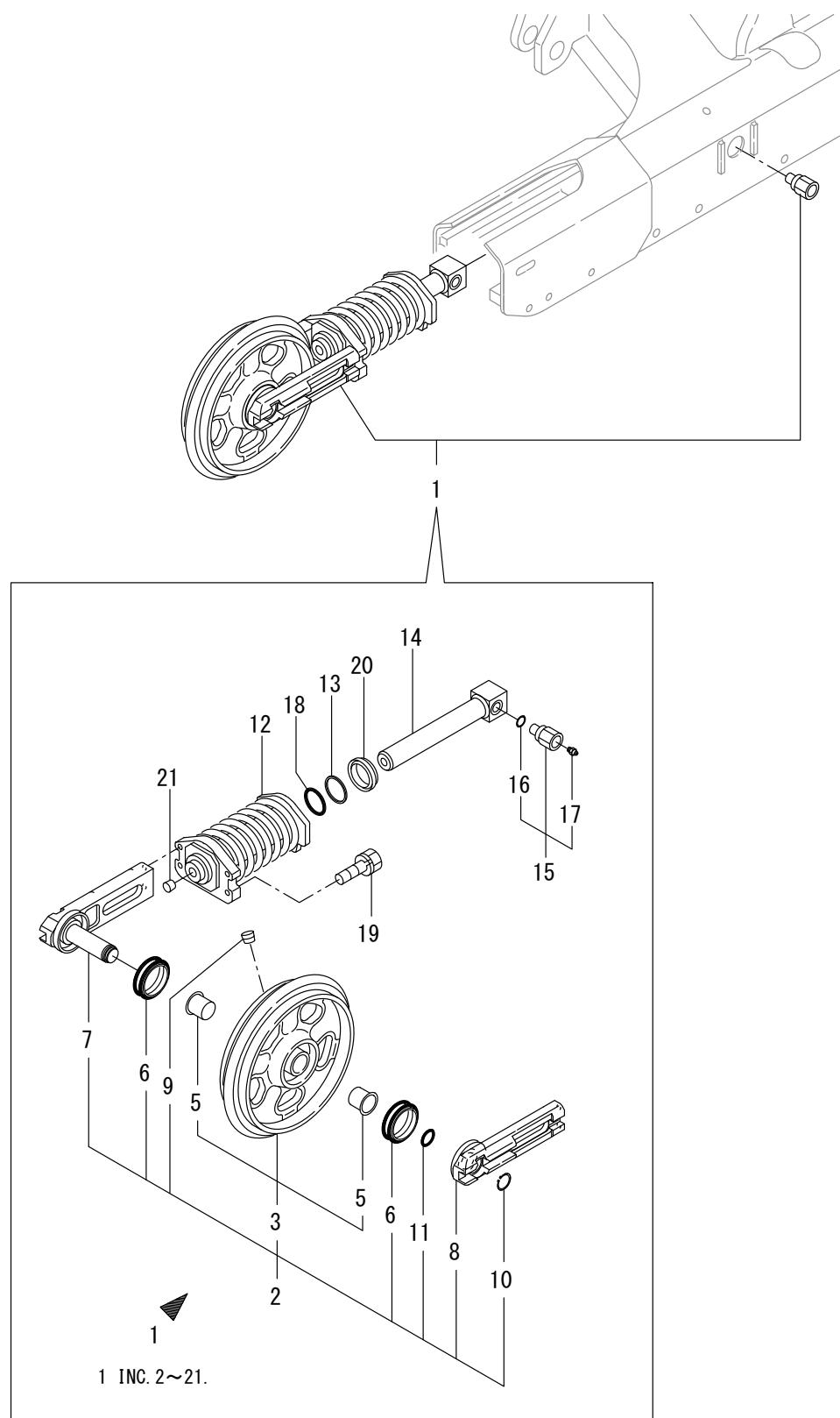
Z27 - COMPACT EXCAVATOR
FIG. 30 - SPROCKET

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284974 | SPROCKET | 2 |
| 2 | 50282516 | BOLT W/WASHER M10X25 | 24 |

Z27 - COMPACT EXCAVATOR

FIG. 31 - IDLER & ADJUST (RUBBER CRAWLER SPEC.)



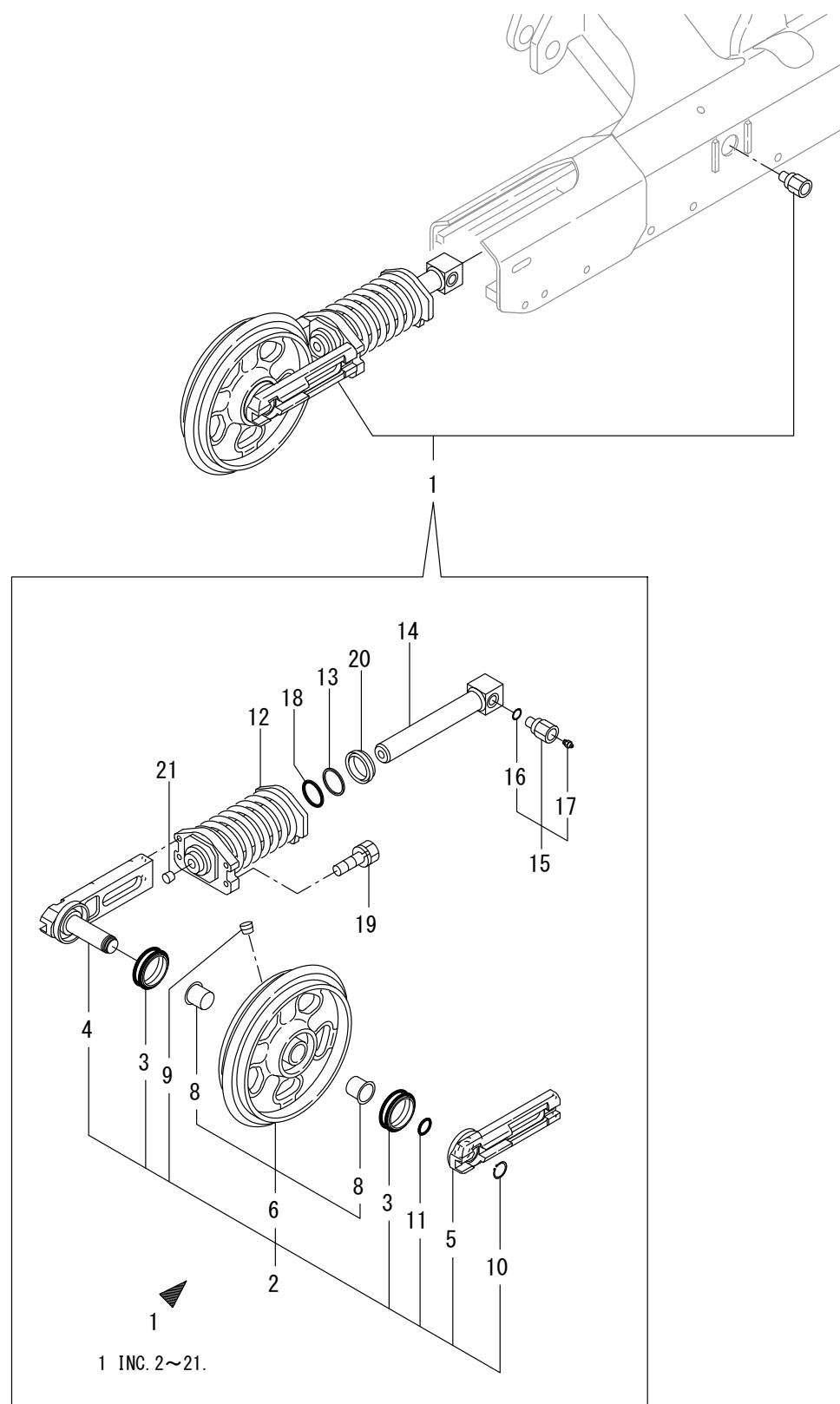
Z27 - COMPACT EXCAVATOR
FIG. 31 - IDLER & ADJUST (RUBBER CRAWLER SPEC.)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|---------------------|------|
| 1 | 50284867 | IDLER ASSY, RUBBER | 2 |
| 2 | 50284864 | IDLER ASSY | 2 |
| 3 | 50284323 | IDLER ASSY,295 | 2 |
| 5 | 50284800 | BUSHING | 4 |
| 6 | 50282966 | FLOATING SEAL | 4 |
| 7 | 50284325 | SHAFT ASSY,IDLER | 2 |
| 8 | 50284327 | SEAL COVER B,IDLER | 2 |
| 9 | 50282355 | PLUG PT1/8 | 2 |
| 10 | 50284045 | CIRCLIP 30 | 2 |
| 11 | 425-35944 | O-RING G30 | 2 |
| 12 | 50284334 | SPRING, CRAWLER | 2 |
| 13 | 50284389 | BACKUP RING 40 | 2 |
| 14 | 50284242 | PISTON ASSY, ADJUST | 2 |
| 15 | 50280783 | VALVE ASSY, NIPPLE | 2 |
| 16 | 50282471 | O-RING 1B P-14.0 | 2 |
| 17 | 50282497 | NIPPLE PT1/8,GREASE | 2 |
| 18 | 50282488 | O-RING, 1B G 40.0 | 2 |
| 19 | 50282519 | BOLT M10X 40 | 8 |
| 20 | 50284875 | SEAL 4052710 | 2 |
| 21 | 50282621 | PLUG PT1/8 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 32 - IDLER & ADJUST (IRON CRAWLER SPEC.)



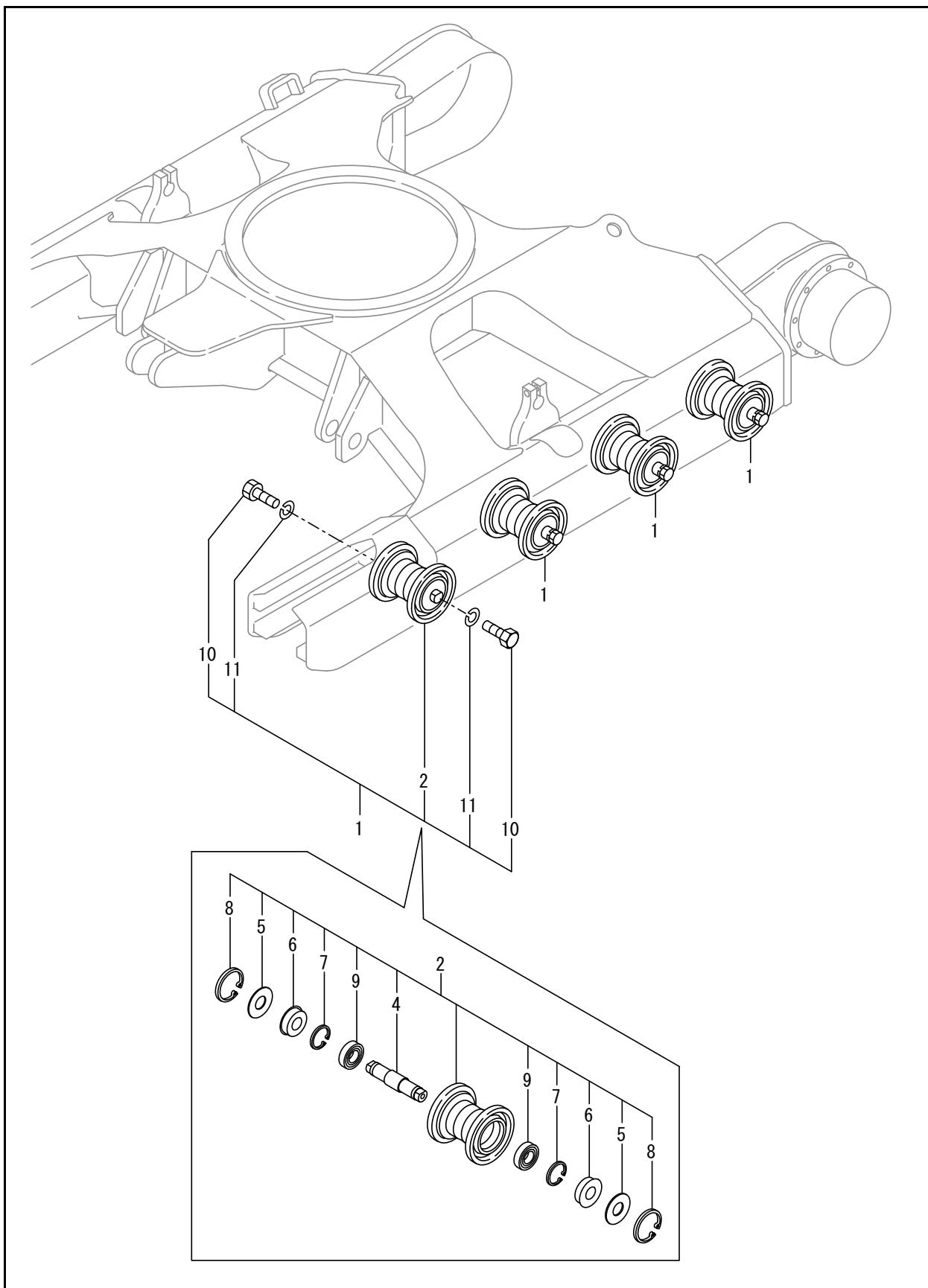
Z27 - COMPACT EXCAVATOR
FIG. 32 - IDLER & ADJUST (IRON CRAWLER SPEC.)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50284866 | IDLER ASSY, IRON | 2 |
| 2 | 50284865 | IDLER ASSY | 2 |
| 3 | 50282966 | FLOATING SEAL | 4 |
| 4 | 50284325 | SHAFT ASSY, IDLER | 2 |
| 5 | 50284327 | SEAL COVER B, IDLER | 2 |
| 6 | 50284329 | IDLER ASSY, 280 | 2 |
| 8 | 50284800 | BUSHING | 4 |
| 9 | 50282355 | PLUG PT1/8 | 2 |
| 10 | 50284045 | CIRCLIP 30 | 2 |
| 11 | 425-35944 | O-RING G30 | 2 |
| 12 | 50284334 | SPRING, CRAWLER | 2 |
| 13 | 50284389 | BACKUP RING 40 | 2 |
| 14 | 50284242 | PISTON ASSY, ADJUST | 2 |
| 15 | 50280783 | VALVE ASSY, NIPPLE | 2 |
| 16 | 50282471 | O-RING 1B P-14.0 | 2 |
| 17 | 50282497 | NIPPLE PT1/8, GREASE | 2 |
| 18 | 50282488 | O-RING, 1B G 40.0 | 2 |
| 19 | 50282519 | BOLT M10X 40 | 8 |
| 20 | 50284875 | SEAL 4052710 | 2 |
| 21 | 50282621 | PLUG PT1/8 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 33 - TRACK ROLLER



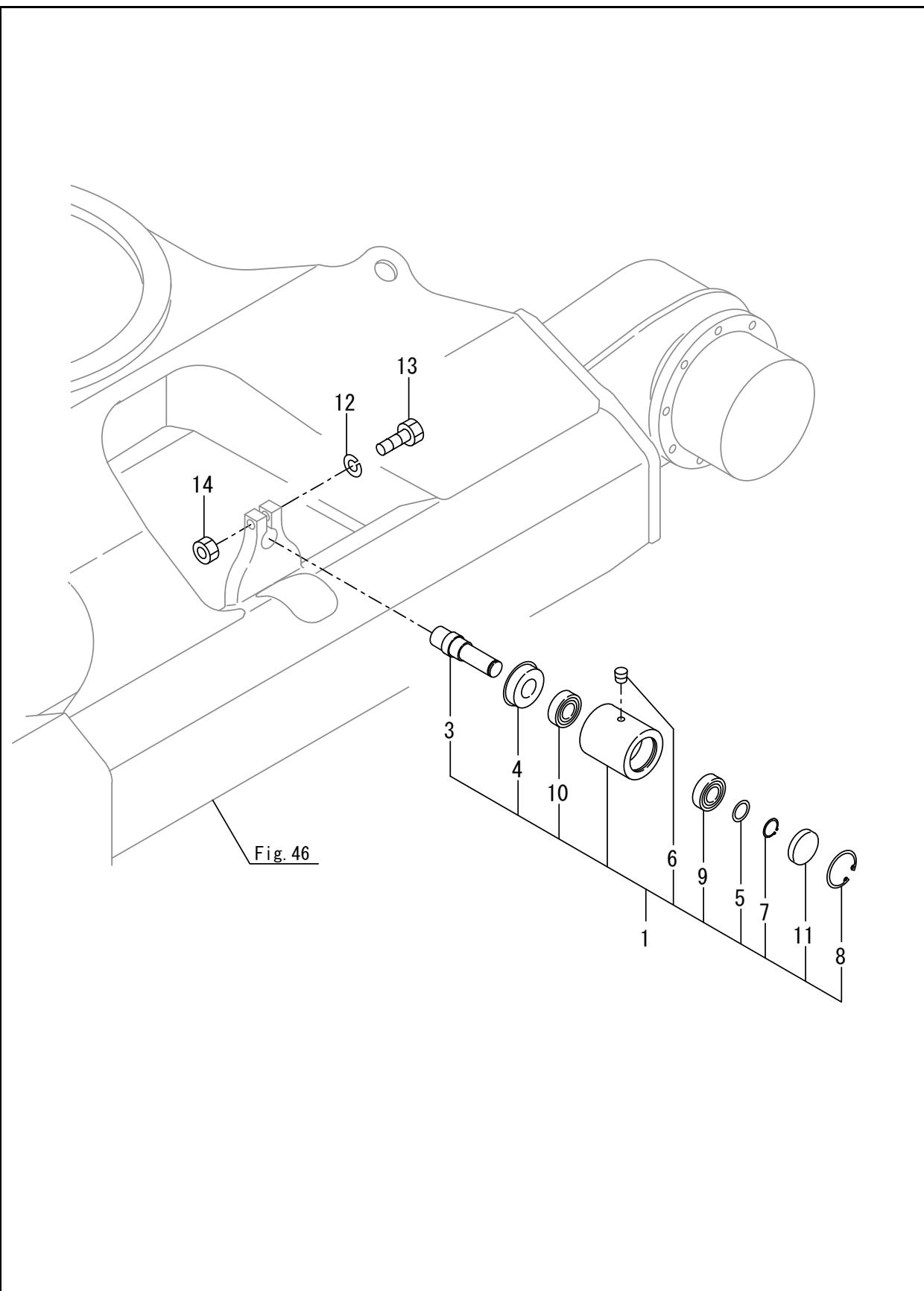
Z27 - COMPACT EXCAVATOR
FIG. 33 - TRACK ROLLER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284863 | ROLLER ASSY, TRACK | 8 |
| 2 | 50284254 | ROLLER, TRACK | 8 |
| 4 | 50284241 | SHAFT | 8 |
| 5 | 50284201 | SPACER 75X2.6 | 16 |
| 6 | 50284836 | SEAL QLF30621218,OIL | 16 |
| 7 | 50284842 | CIRCLIP 62(H) | 16 |
| 8 | 50284843 | CIRCLIP 75 | 16 |
| 9 | 50284877 | BEARING | 16 |
| 10 | 50283253 | BOLT, M16X35 | 16 |
| 11 | 50282396 | SPRING WASHER 16 | 16 |

Z27 - COMPACT EXCAVATOR

FIG. 34 - CARRIER ROLLER



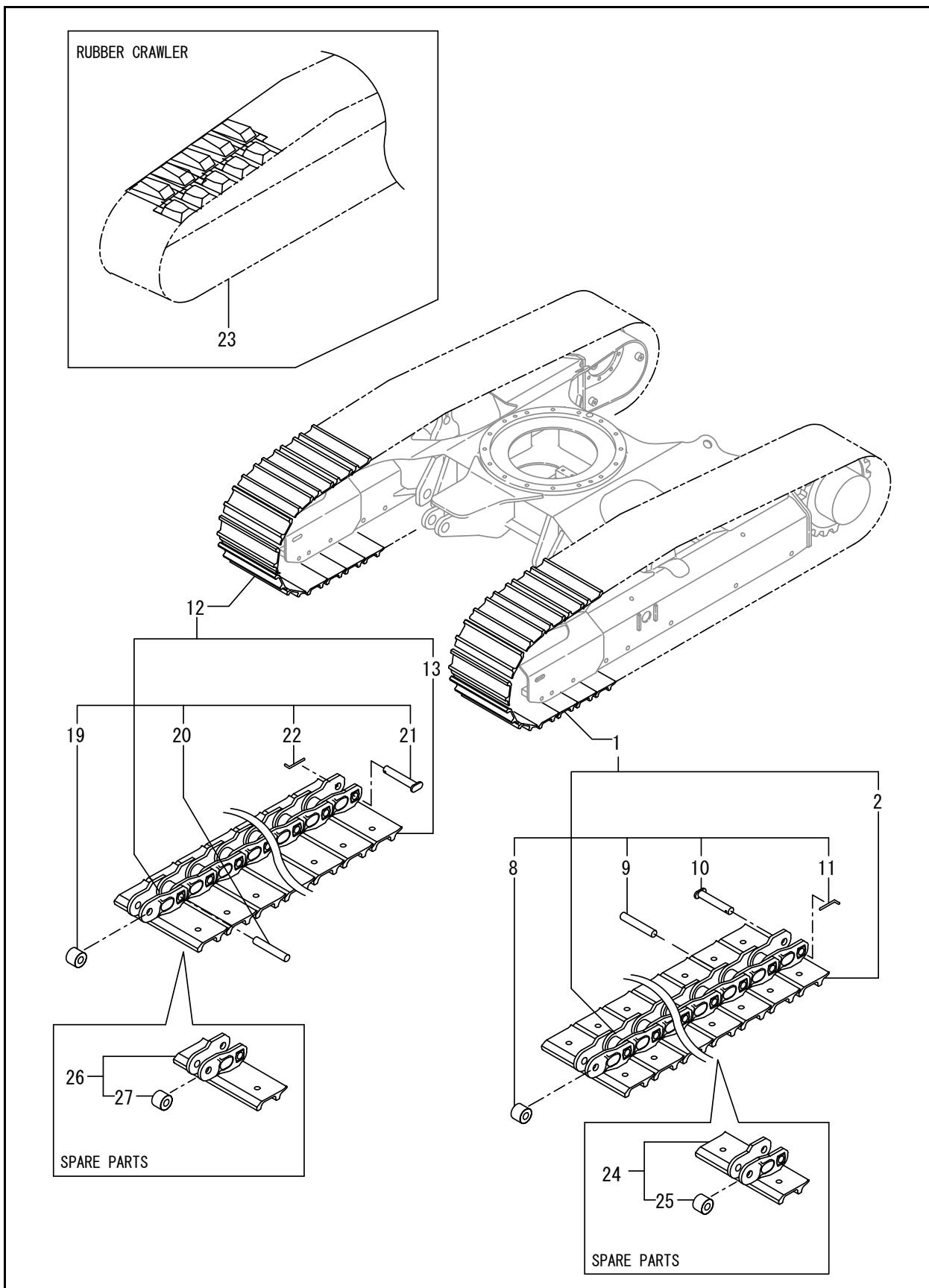
Z27 - COMPACT EXCAVATOR
FIG. 34 - CARRIER ROLLER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284330 | ROLLER ASSY, CARRIER | 2 |
| 3 | 50284331 | SHAFT | 2 |
| 4 | 50284332 | OIL SEAL | 2 |
| 5 | 50284333 | COLLAR | 2 |
| 6 | 50282355 | PLUG PT1/8 | 2 |
| 7 | 50282399 | CIRCLIP 25S | 2 |
| 8 | 50284841 | CIRCLIP 52 | 2 |
| 9 | 186604 | BEARING #6205 | 2 |
| 10 | 50284849 | BALL BEARING | 2 |
| 11 | 50284862 | COVER 52, BLIND | 2 |
| 12 | 188712 | SPRING/WASHER 14 | 2 |
| 13 | 50284858 | BOLT M14X 65 PLATED | 2 |
| 14 | 50284861 | NUT M14 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 35 - CRAWLER



Z27 - COMPACT EXCAVATOR
FIG. 35 - CRAWLER

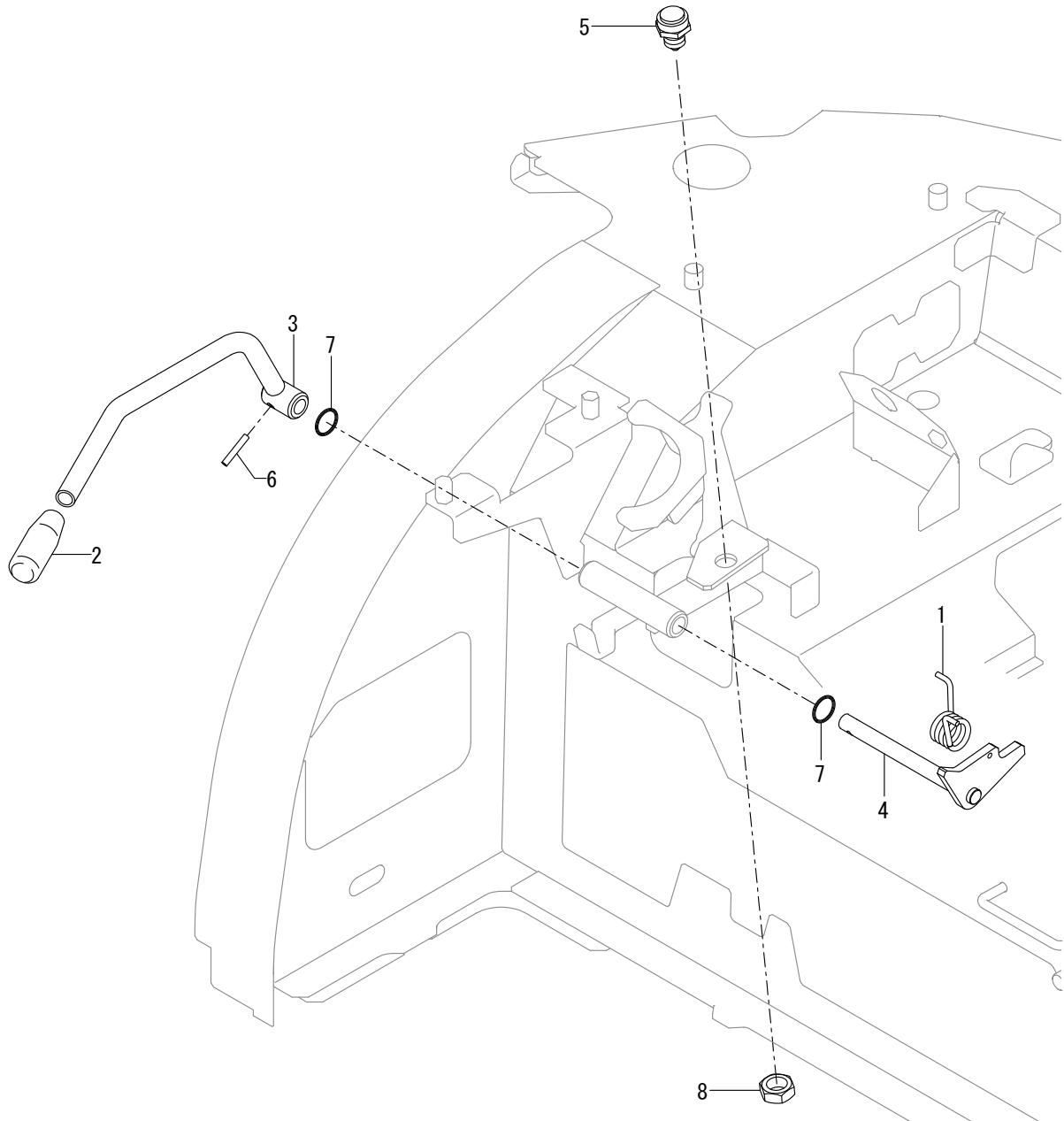
Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------------------------|------|
| 1 | 50284975 | TRACK SHOE, 300L (iron crawler spec.) | 1 |
| 2 | 50284336 | PLATE, SHOE | 41 |
| 8 | 50284339 | BUSHING, TRUCK | 41 |
| 9 | 50284340 | PIN,TRUCK | 40 |
| 10 | 50284341 | PIN,MASTER | 1 |
| 11 | 50284342 | STOP PIN | 1 |
| 12 | 50284976 | TRACK SHOE, 300R (iron crawler spec.) | 1 |
| 13 | 50284338 | PLATE, SHOE | 41 |
| 19 | 50284339 | BUSHING, TRUCK | 41 |
| 20 | 50284340 | PIN,TRUCK | 40 |
| 21 | 50284341 | PIN,MASTER | 1 |
| 22 | 50284342 | STOP PIN | 1 |
| 23 | 50284977 | CRAWLER,RUBBER | 2 |
| 24 | 50284343 | TRACK ASSY, MASTER | 1 |
| 25 | 50284339 | BUSHING, TRUCK | 1 |
| 26 | 50284344 | TRACK ASSY, MASTER | 1 |
| 27 | 50284339 | BUSHING, TRUCK | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 36 - CONTROL EQUIPMENT (LOCK LEVER & STAND : RIGHT)

NOTE: ONLY USED ON CANOPY EQUIPPED MACHINES



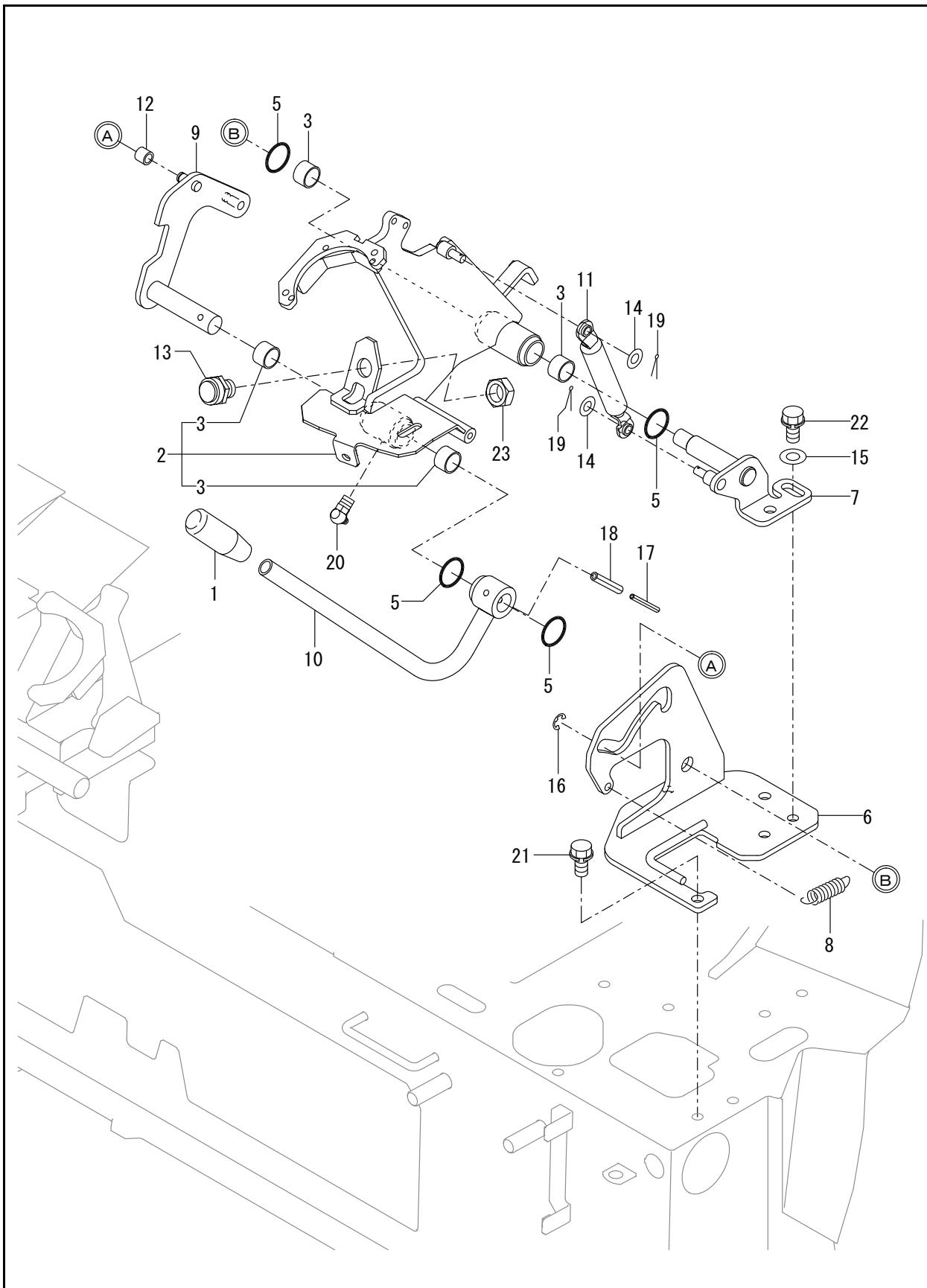
Z27 - COMPACT EXCAVATOR
FIG. 36 - CONTROL EQUIPMENT (LOCK LEVER & STAND : RIGHT)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 37 - CONTROL EQUIPMENT (LOCK LEVER & STAND : LEFT)



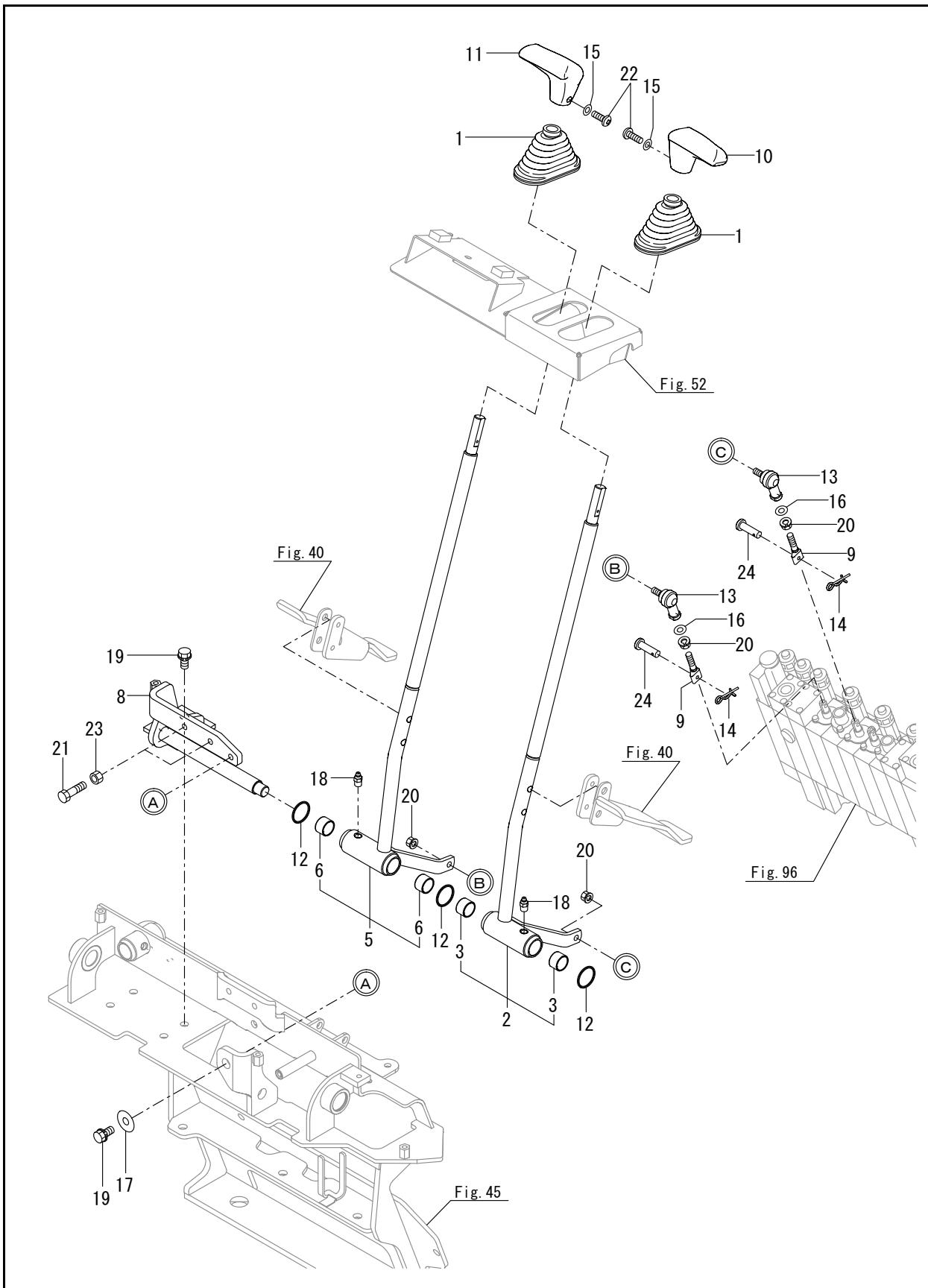
Z27 - COMPACT EXCAVATOR**FIG. 37 - CONTROL EQUIPMENT (LOCK LEVER & STAND : LEFT)**

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 38 - CONTROL EQUIPMENT (TRAVEL LEVER)



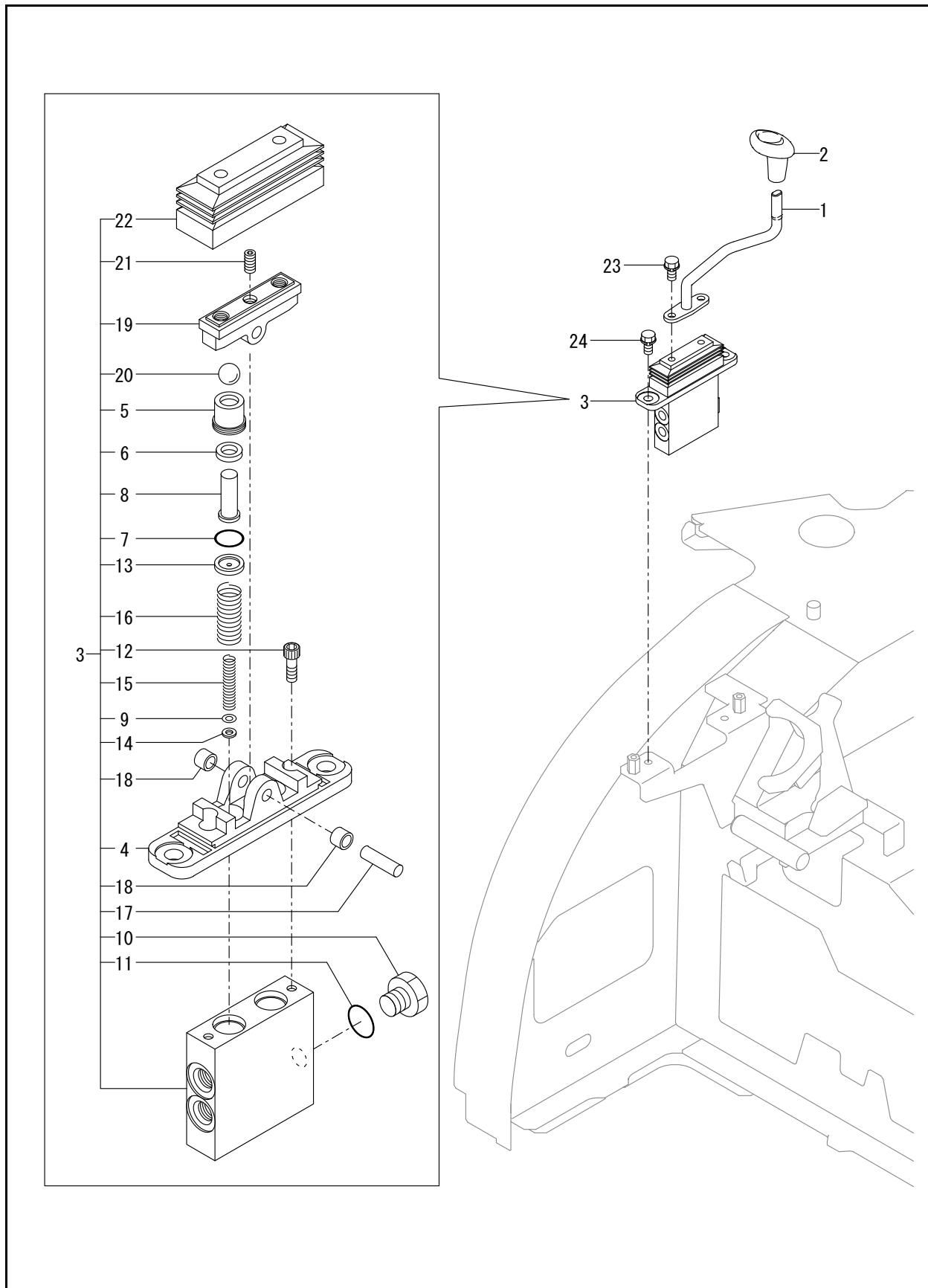
Z27 - COMPACT EXCAVATOR
FIG. 38 - CONTROL EQUIPMENT (TRAVEL LEVER)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 39 - CONTROL EQUIPMENT (BLADE LEVER)



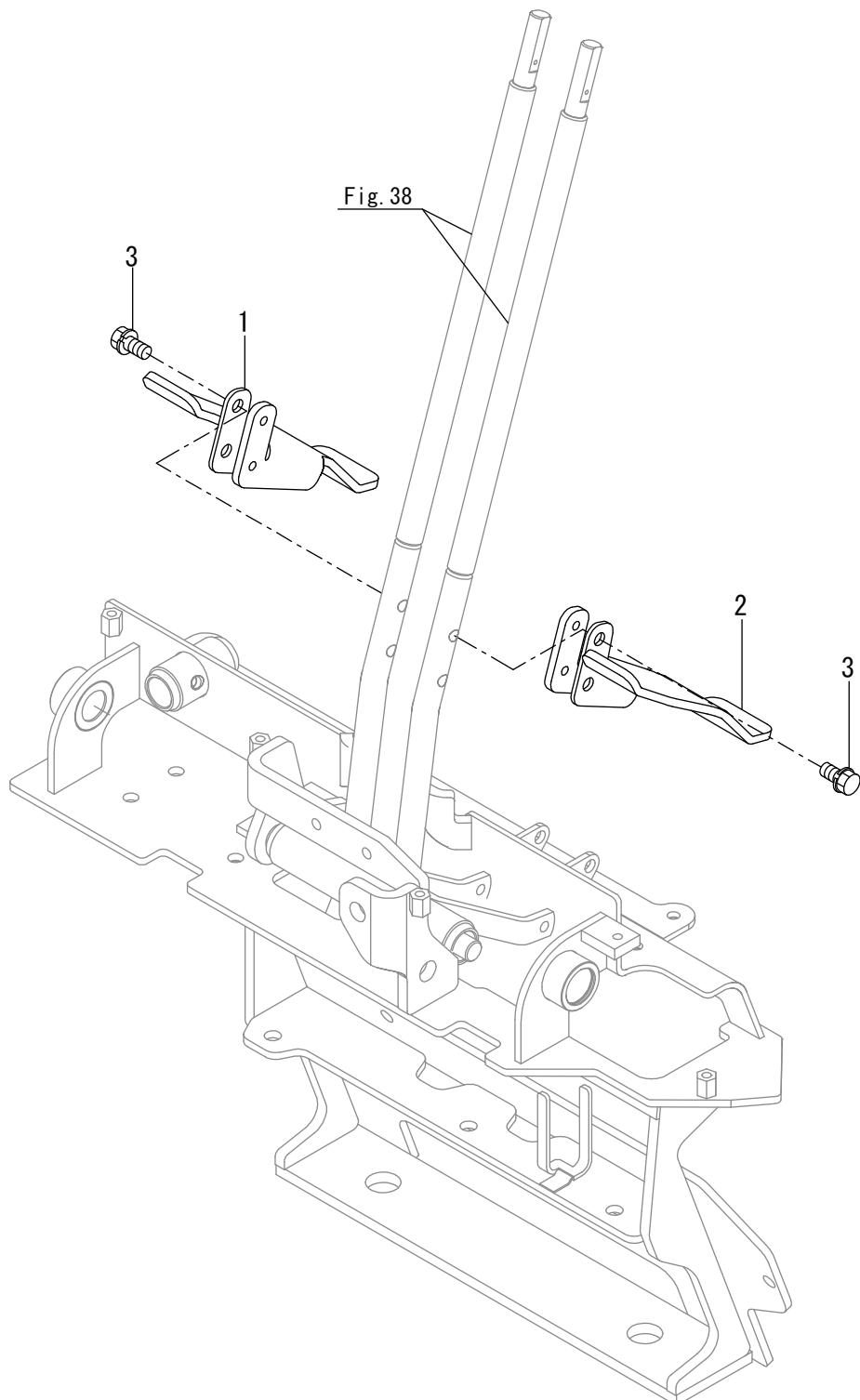
Z27 - COMPACT EXCAVATOR
FIG. 39 - CONTROL EQUIPMENT (BLADE LEVER)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 40 - CONTROL EQUIPMENT (TRAVEL PEDAL)



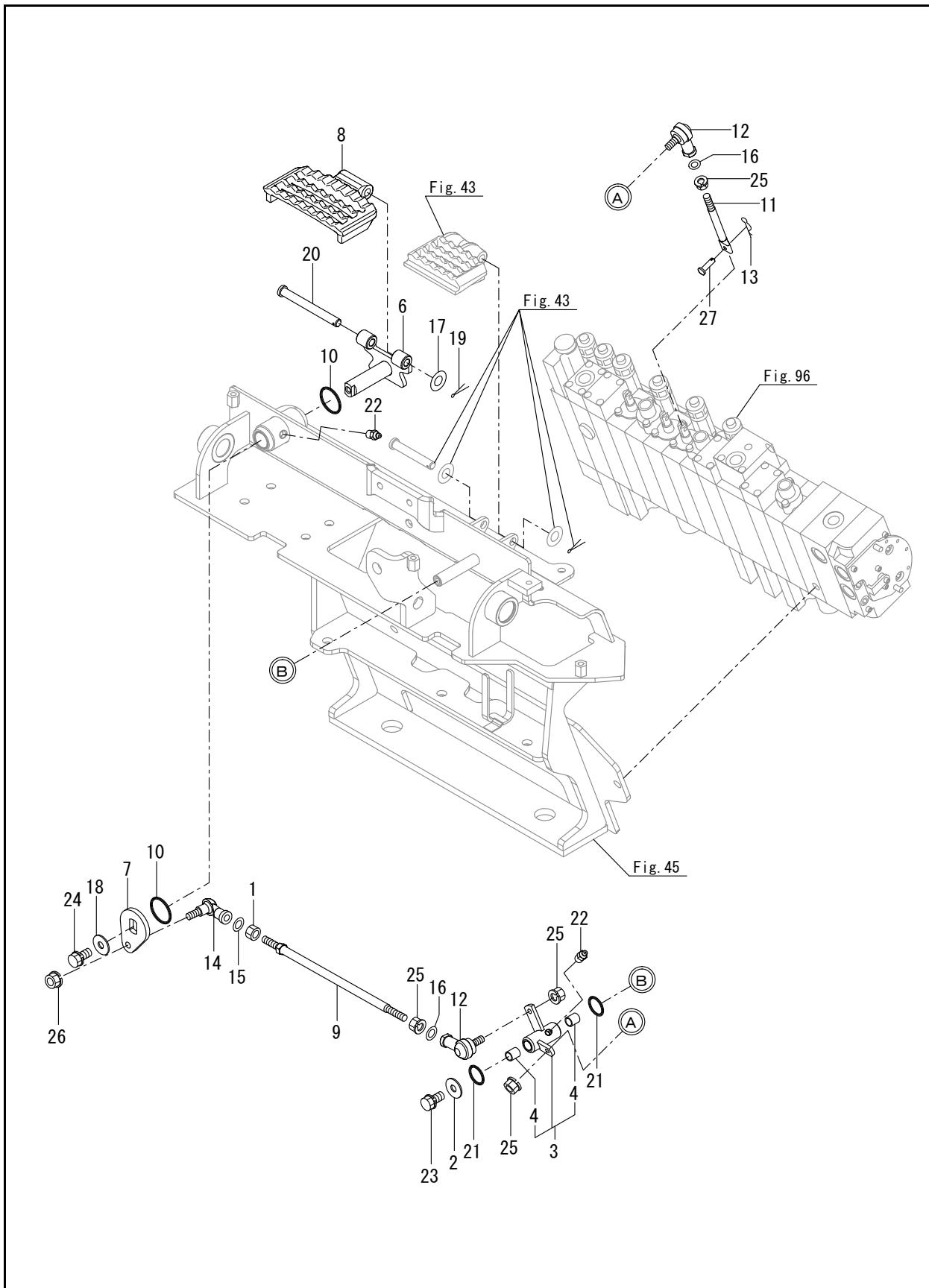
Z27 - COMPACT EXCAVATOR
FIG. 40 - CONTROL EQUIPMENT (TRAVEL PEDAL)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|---------------------|------|
| 1 | 50283497 | PEDAL, TRACK | 1 |
| 2 | 50283498 | PEDAL, TRACK | 1 |
| 3 | 425-34760 | BOLT M8 X 30 PLATED | 4 |

Z27 - COMPACT EXCAVATOR

FIG. 41 - CONTROL EQUIPMENT (SWING PEDAL)



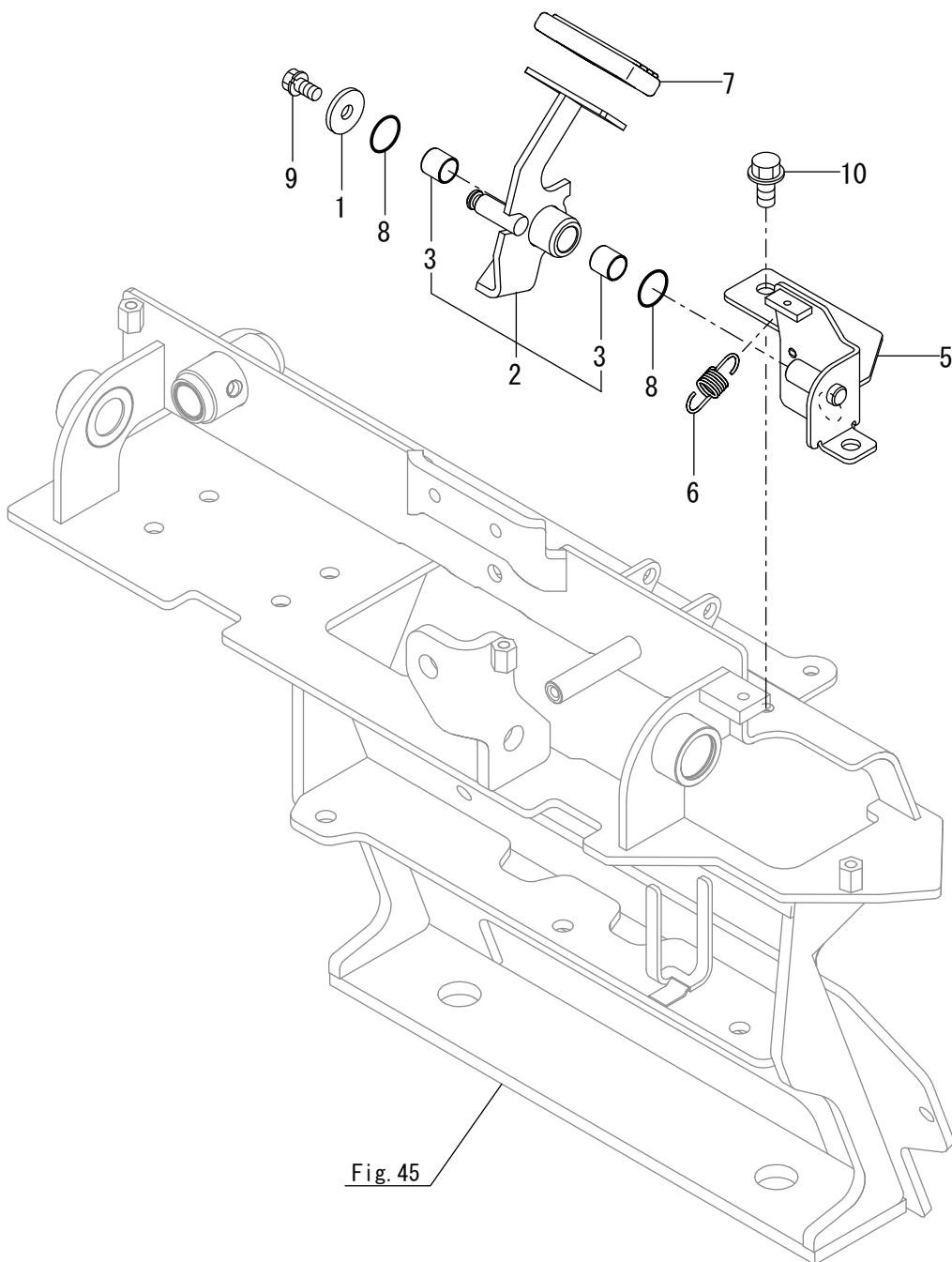
Z27 - COMPACT EXCAVATOR
FIG. 41 - CONTROL EQUIPMENT (SWING PEDAL)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 42 - CONTROL EQUIPMENT (LOW-HIGH PEDAL)



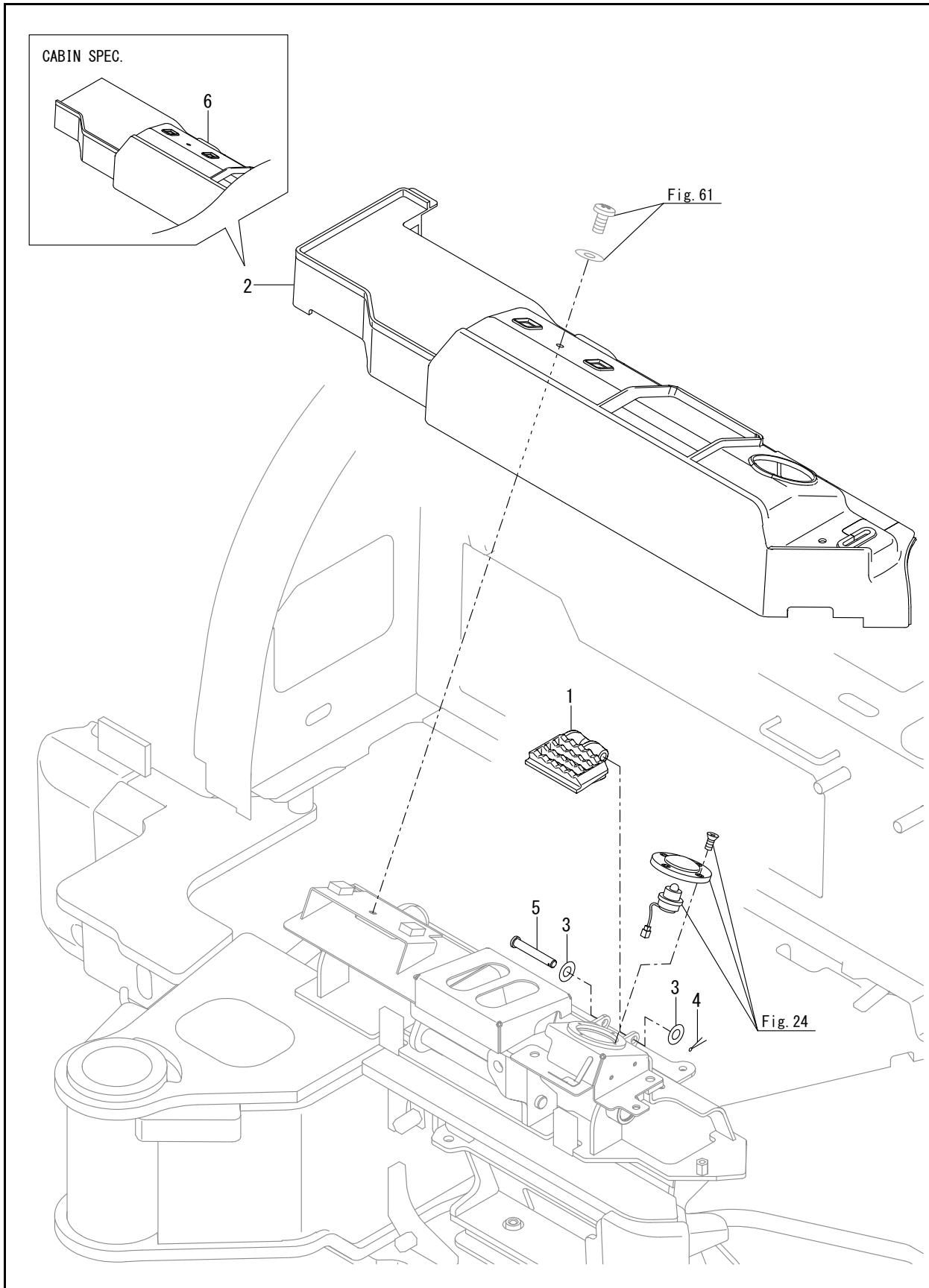
Z27 - COMPACT EXCAVATOR
FIG. 42 - CONTROL EQUIPMENT (LOW-HIGH PEDAL)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 43 - CONTROL EQUIPMENT (P.T.O. PEDAL)



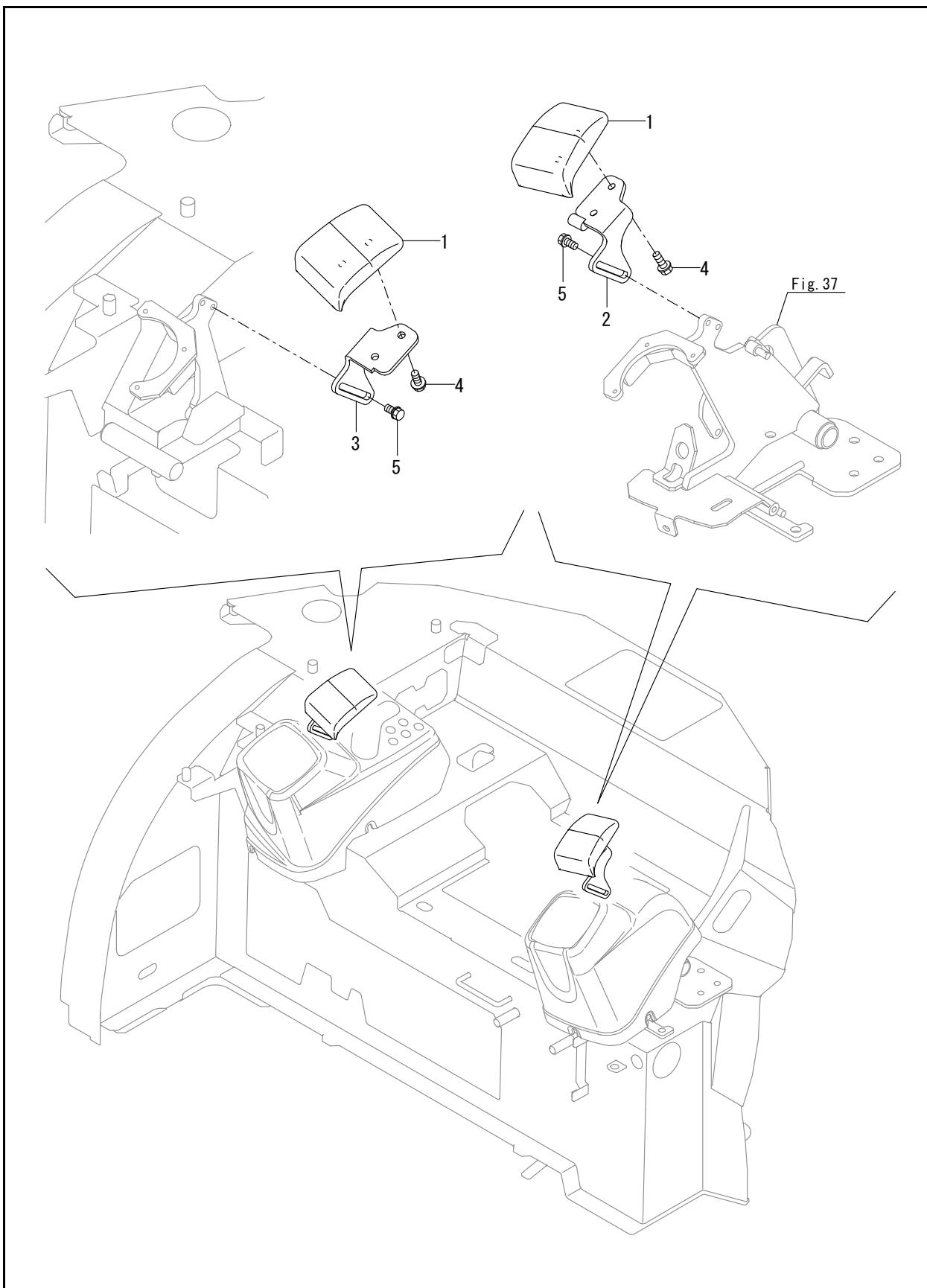
Z27 - COMPACT EXCAVATOR
FIG. 43 - CONTROL EQUIPMENT (P.T.O. PEDAL)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|-----------------------|------|
| 1 | 50283504 | PEDAL | 1 |
| 2 | 50283575 | FLOOR MAT (w/ canopy) | 1 |
| 3 | 138111 | WASHER/POLISHED | 2 |
| 4 | 50282418 | COTTER PIN 2.0X20 | 1 |
| 5 | 50284058 | PIN, H10X60 | 1 |
| 6 | 50283335 | FLOOR MAT,CAB | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 44 - ARMREST

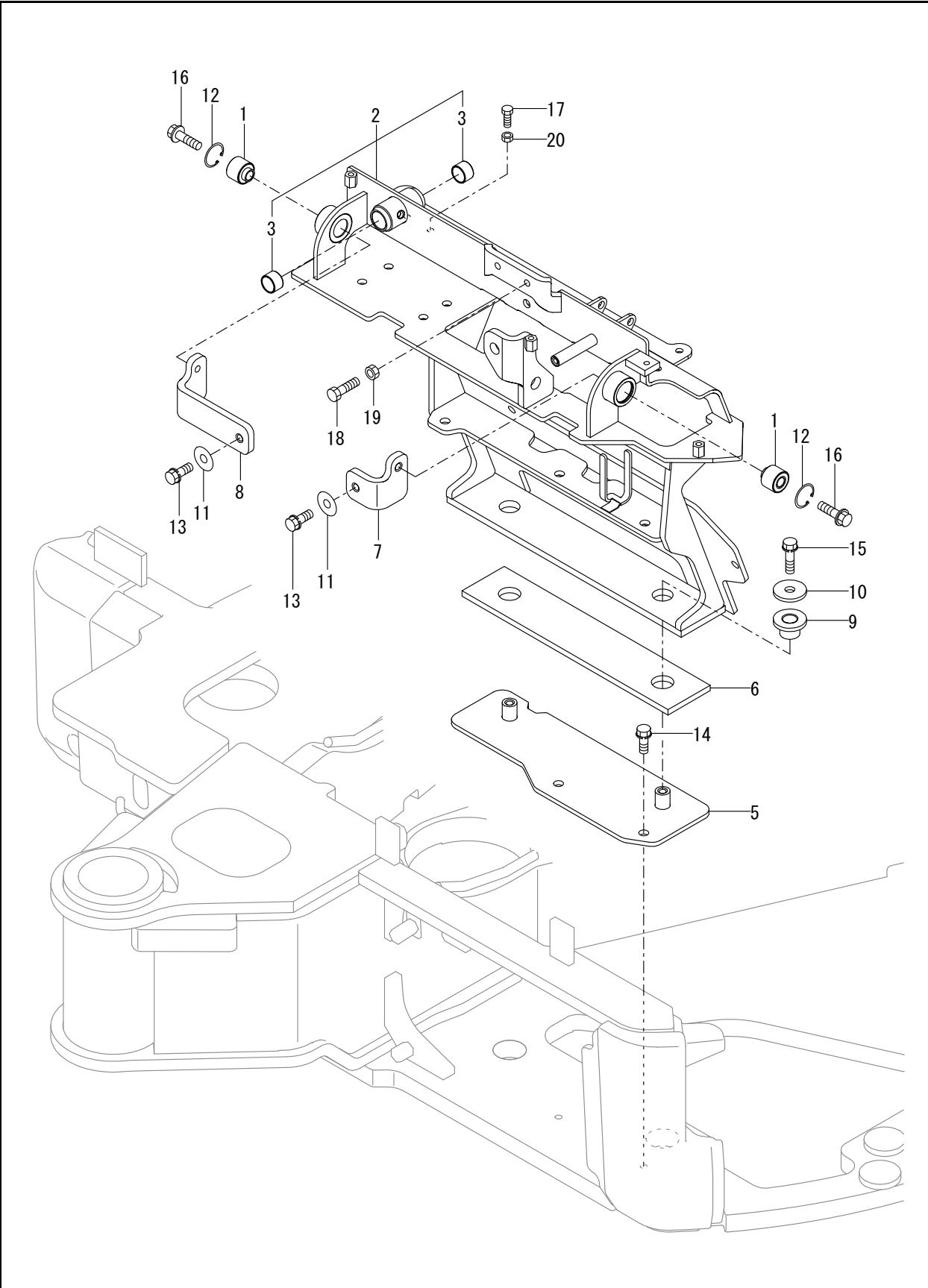


Z27 - COMPACT EXCAVATOR
FIG. 44 - ARMREST

Ref.

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

Z27 - COMPACT EXCAVATOR
FIG. 45 - CONTROL VALVE PLATE



Z27 - COMPACT EXCAVATOR
FIG. 45 - CONTROL VALVE PLATE

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50282799 | CUSHION | 2 |
| 2 | 50283513 | MOUNT ASSY, LINK | 1 |
| 3 | 50280810 | BUSHING 2015 | 2 |
| 5 | 50283514 | BRACKET ASSY, DAMPER | 1 |
| 6 | 50283515 | PAD,ABSOBER | 1 |
| 7 | 50283516 | STAY, DAMPER | 1 |
| 8 | 50283517 | STAY, DAMPER | 1 |
| 9 | 50283248 | GROMMET 18X24X40 | 2 |
| 10 | 50283249 | WASHER 12X40X4.5 | 2 |
| 11 | 50282387 | WASHER 10 | 2 |
| 12 | 50284047 | CIRCLIP 28 | 2 |
| 13 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 14 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 15 | 50282518 | BOLT M10X 35 | 2 |
| 16 | 138135 | BOLT M10 X 35 PLATED | 2 |
| 17 | 50284115 | BOLT M8 X 20 PLATED | 2 |
| 18 | 50284118 | BOLT M10 X 30 PLATED | 2 |
| 19 | 50282597 | NUT 10 | 2 |
| 20 | 425-34794 | NUT, LOCK M8 PLATED | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 46 - TRACK FRAME

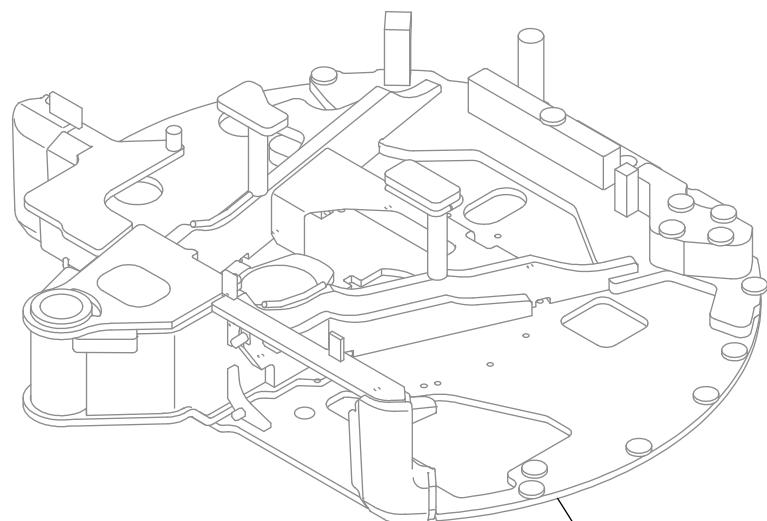


Fig. 49

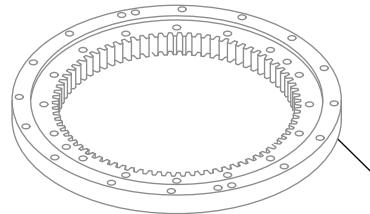
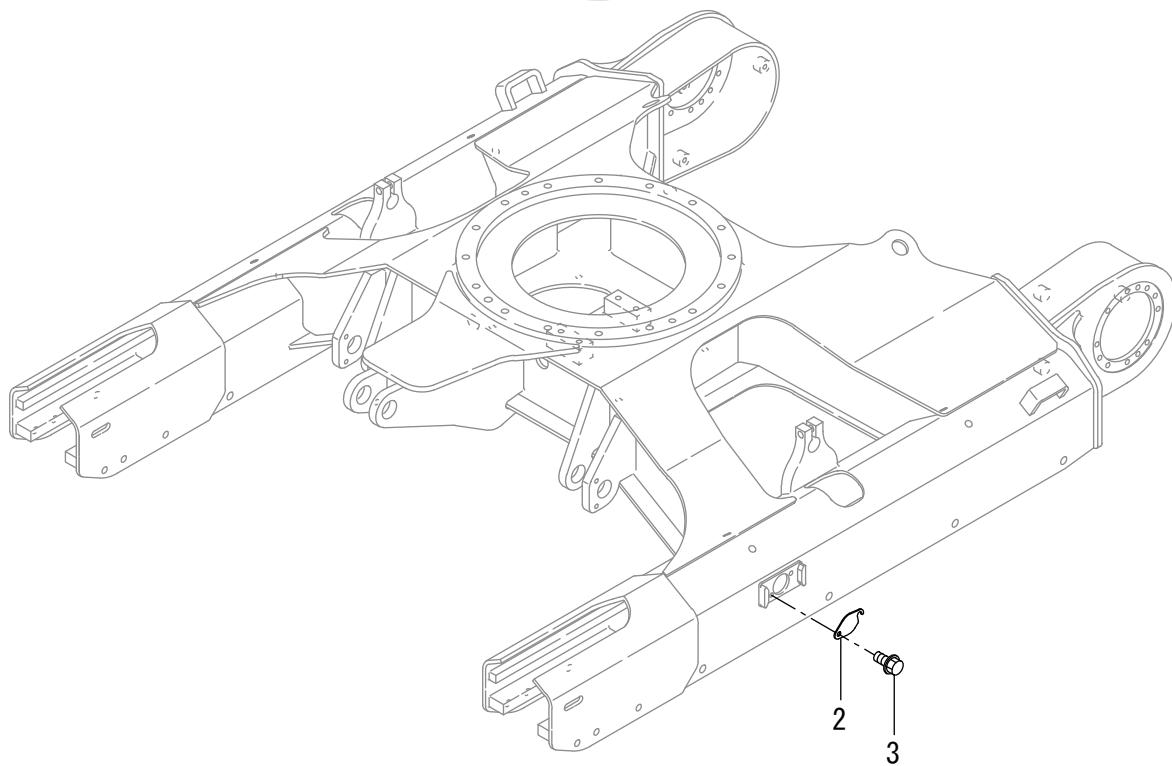


Fig. 51



2
3

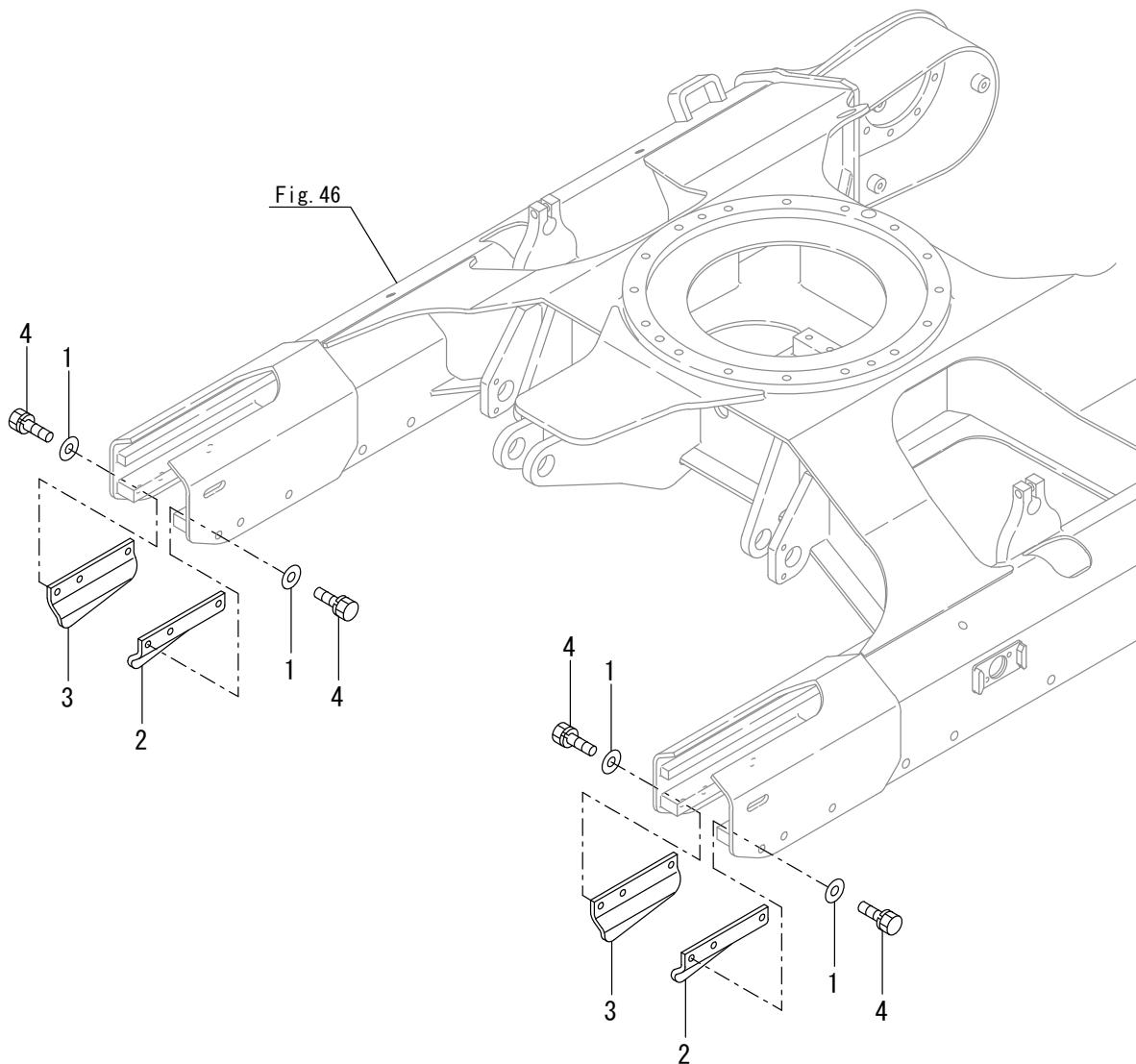
Z27 - COMPACT EXCAVATOR
FIG. 46 - TRACK FRAME

Ref.

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

Z27 - COMPACT EXCAVATOR
FIG. 47 - CRAWLER GUARD

NOTE: FOR IRON CRAWLER SPEC. ONLY



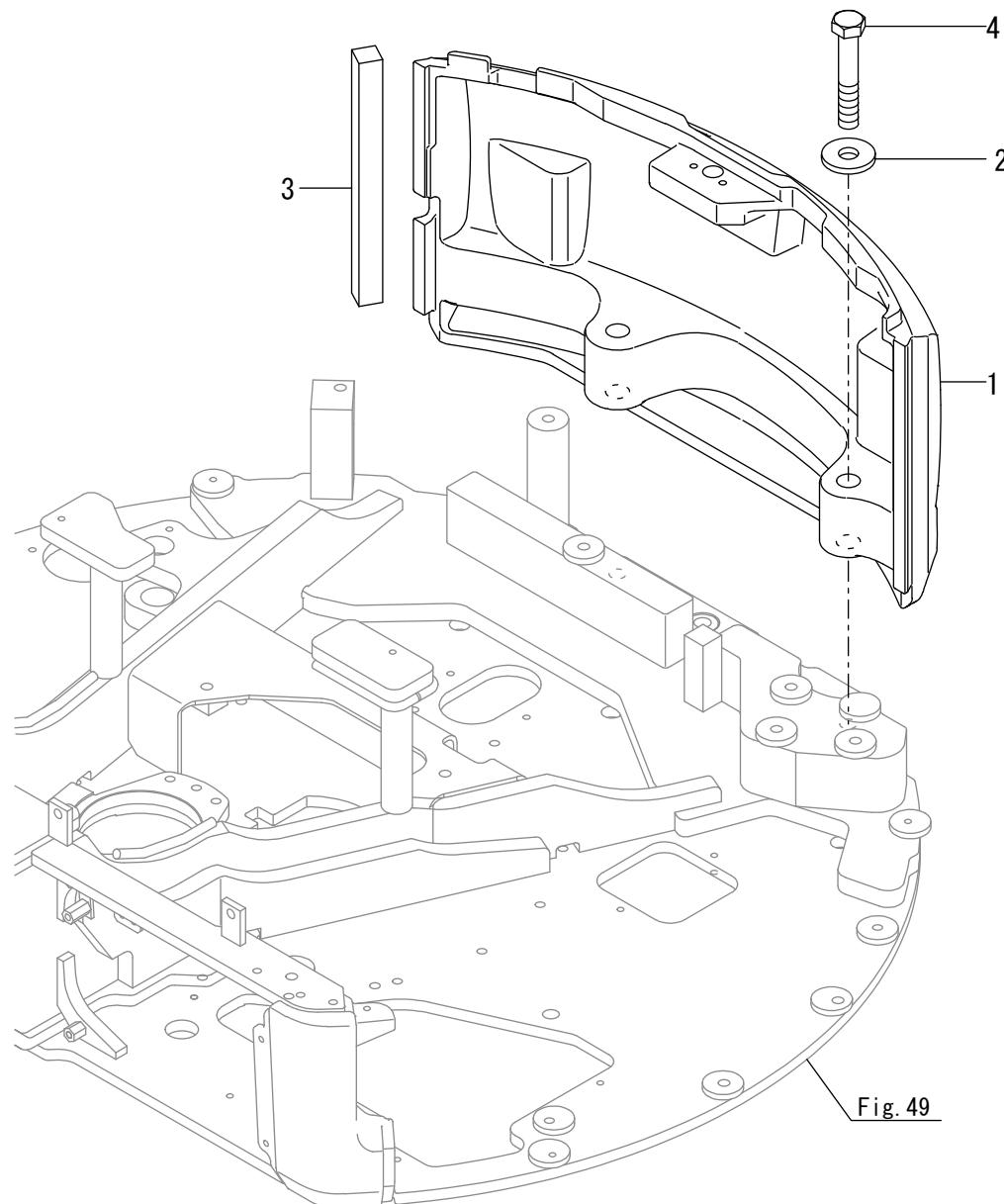
Z27 - COMPACT EXCAVATOR
FIG. 47 - CRAWLER GUARD

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------|------|
| 1 | 50284406 | WASHER | 12 |
| 2 | 50284346 | PLATE, GUARD | 2 |
| 3 | 50284347 | PLATE, GUARD | 2 |
| 4 | 50284101 | BOLT M12 X 25 | 12 |

Z27 - COMPACT EXCAVATOR

FIG. 48 - WEIGHT



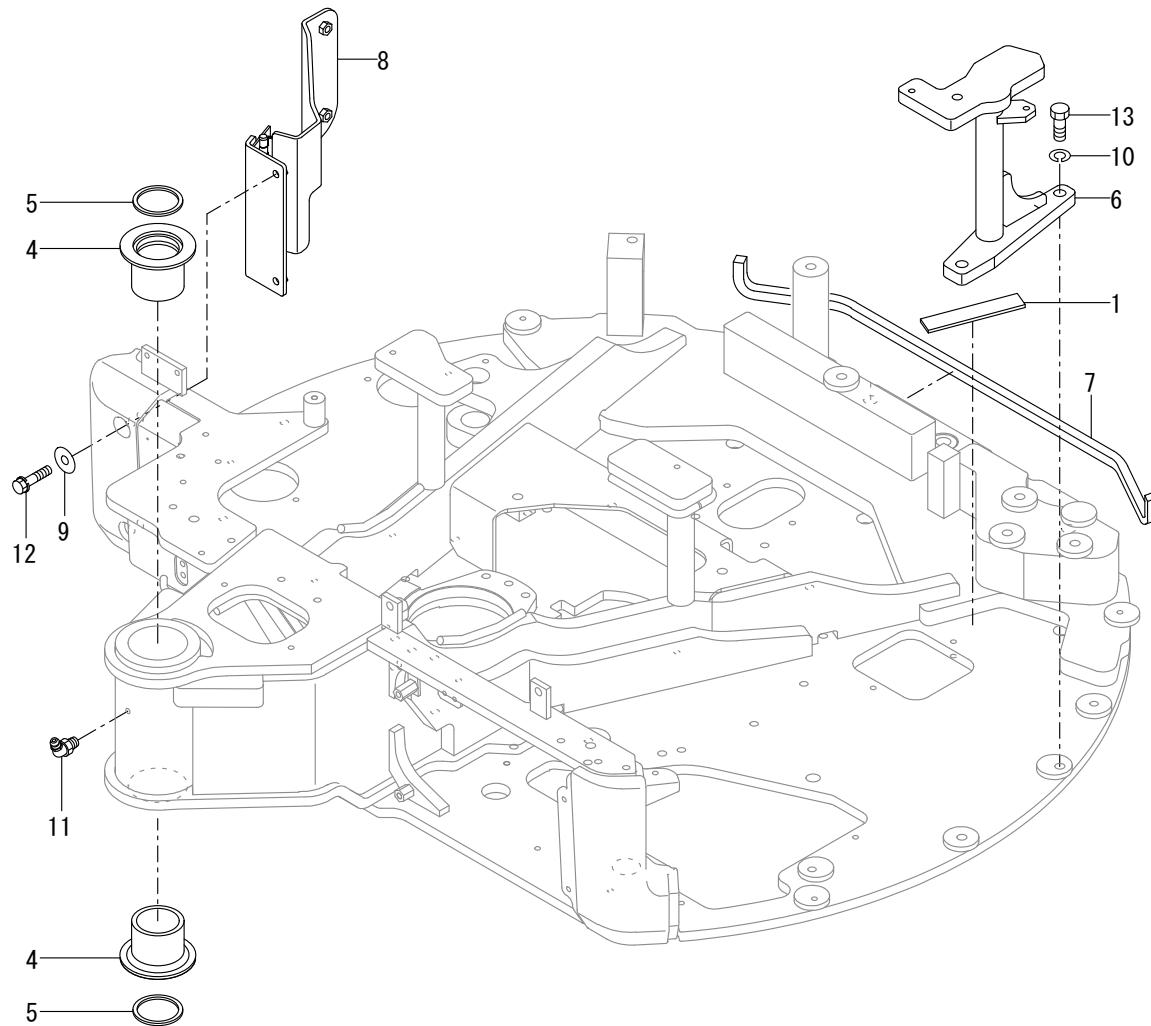
Z27 - COMPACT EXCAVATOR
FIG. 48 - WEIGHT

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|------------------|------|
| 1 | 50285056 | COUNTERWEIGHT | 1 |
| 2 | 50280943 | WASHER 24.5X65X8 | 2 |
| 3 | 50283528 | SEAL,WEIGHT | 1 |
| 4 | 50281072 | BOLT 24X140 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 49 - TURNING FRAME



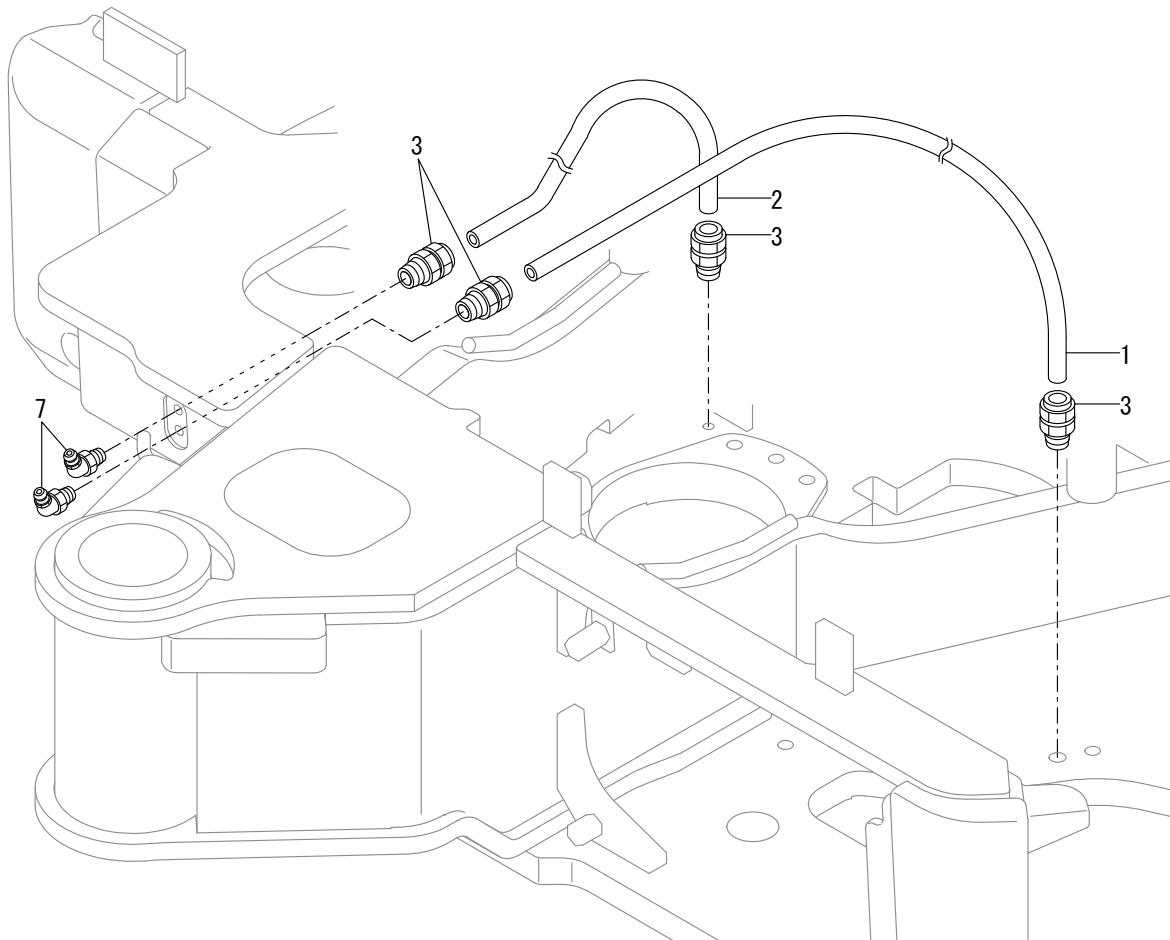
Z27 - COMPACT EXCAVATOR
FIG. 49 - TURNING FRAME

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50284319 | RUBBER PLATE D,FO | 1 |
| 4 | 50284919 | BUSHING 60X70 | 2 |
| 5 | 50280901 | SEAL 60X70X4 DUST | 2 |
| 6 | 50284548 | BOSS ASSY | 1 |
| 7 | 50282968 | SEAL 960 | 1 |
| 8 | 50283620 | HINGE ASSY,RF | 1 |
| 9 | 138111 | WASHER/POLISHED | 2 |
| 10 | 50282396 | SPRING WASHER 16 | 2 |
| 11 | 50282499 | NIPPLE C,GREASE | 1 |
| 12 | 50282519 | BOLT M10X 40 | 2 |
| 13 | 50282570 | BOLT M16X 40 PLATED | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 50 - GREASING



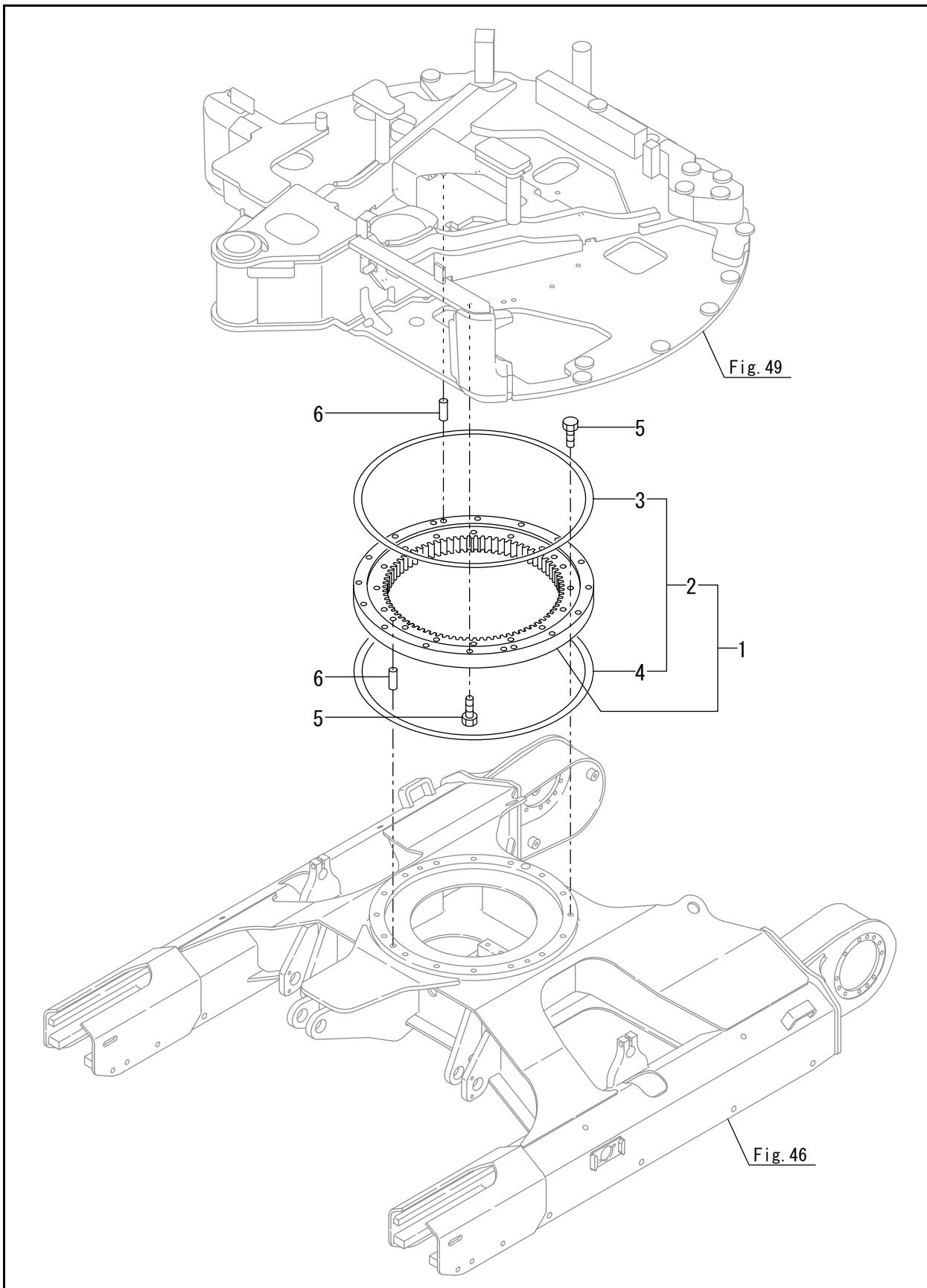
Z27 - COMPACT EXCAVATOR
FIG. 50 - GREASING

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|-----------------|------|
| 1 | 50284704 | HOSE | 1 |
| 2 | 50284777 | HOSE P602YY066 | 1 |
| 3 | 50281493 | JOINT,GREASE | 4 |
| 7 | 50282498 | NIPPLE B,GREASE | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 51 - TURNING BEARING



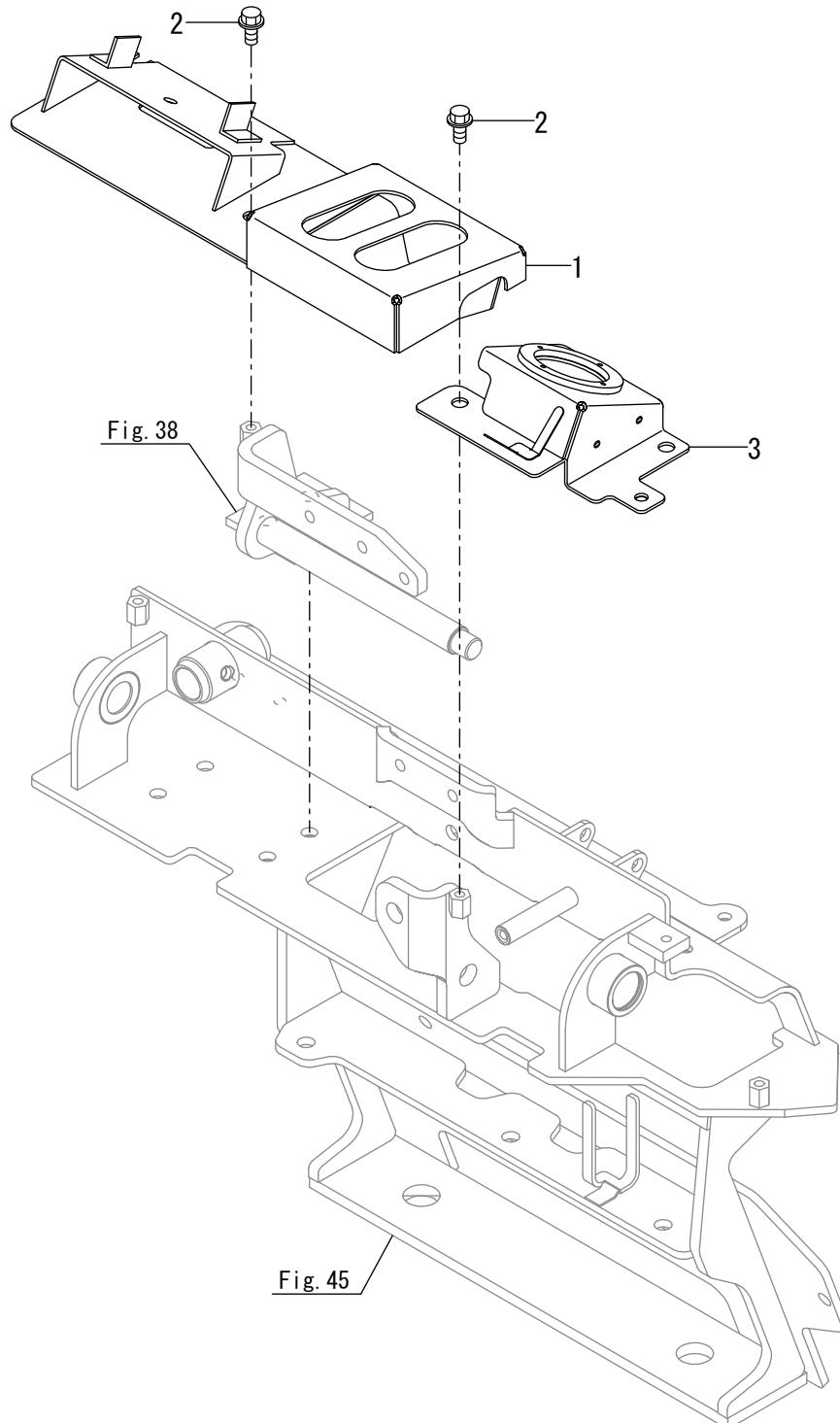
Z27 - COMPACT EXCAVATOR
FIG. 51 - TURNING BEARING

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------|------|
| 1 | 50284348 | BEARING, SWING | 1 |
| 2 | 50284210 | SEAL SET | 1 |
| 3 | 50284193 | SEAL, UPPER | 1 |
| 4 | 50284194 | SEAL, LOWER | 1 |
| 5 | 50284549 | BOLT 14X65 | 32 |
| 6 | 50282703 | PARALLEL PIN 13X36 | 4 |

Z27 - COMPACT EXCAVATOR

FIG. 52 - COVER (LINK)



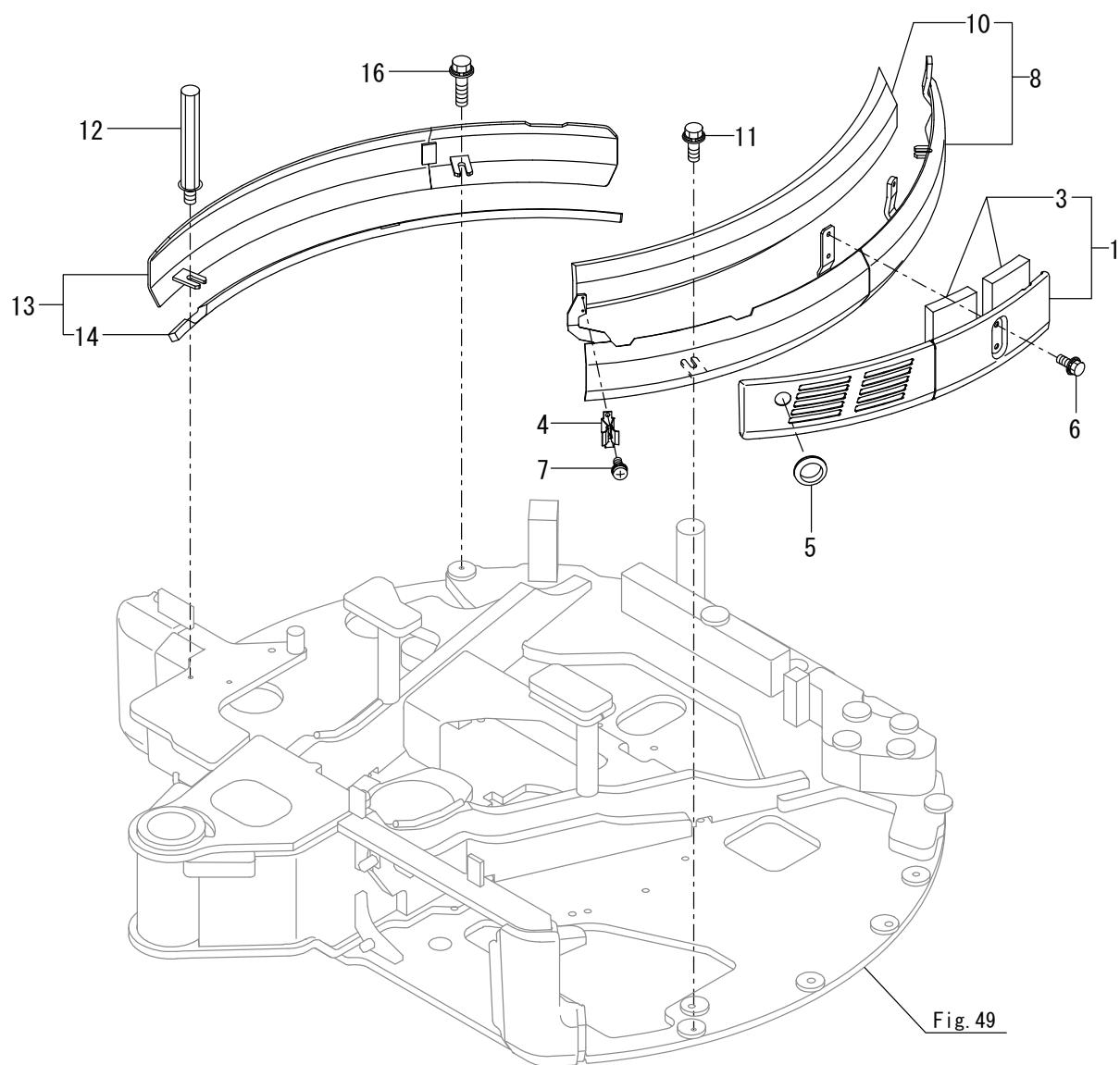
Z27 - COMPACT EXCAVATOR
FIG. 52 - COVER (LINK)

Ref.

| No. | Part No. | Description | Qty. |
|------------|-----------------|---------------------|-------------|
| 1 | 50283560 | STEP ASSY, CONTROL | 1 |
| 2 | 425-34733 | BOLT M8 X 16 PLATED | 5 |
| 3 | 50283569 | STEP ASSY, PTO | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 53 - MULTI COVER & FRAME GUARD

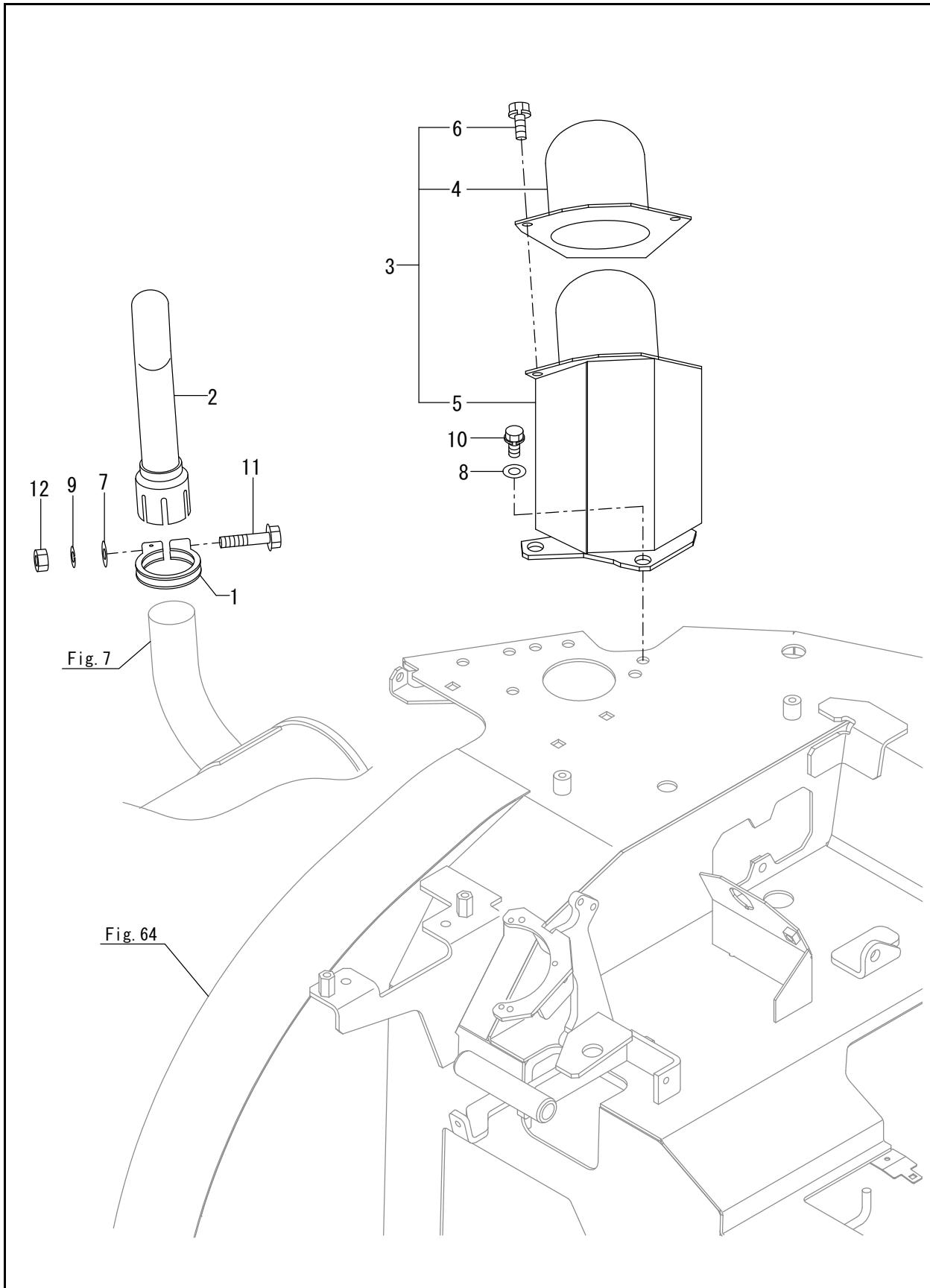


Z27 - COMPACT EXCAVATOR
FIG. 53 - MULTI COVER & FRAME GUARD

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---|------|
| 1 | 50286359 | COVER ASSY | 1 |
| 3 | 50284811 | EV A,MULTI COVER | 2 |
| 4 | 50282360 | HOLDER | 1 |
| 5 | 50280805 | GROMMET | 1 |
| 6 | 50282533 | BOLT M 8X 16 | 2 |
| 7 | 50282543 | SCREW M 5X 10 | 2 |
| 8 | 50284805 | GUARD, FRAME (use with label 10A) | 1 |
| 10 | 50284806 | EV A,FRAME,GUARD L | 1 |
| 10A | 50281023 | LABEL, GREASE CYL. (see Page 4, Page 6) | 1 |
| 11 | 50282539 | BOLT 10X25 W/PLW+SPW | 2 |
| 12 | 50284551 | BOLT ASSY | 1 |
| 13 | 50284552 | GUARD, FRAME (use with label 15A) | 1 |
| 14 | 50282968 | SEAL 960 | 1 |
| 15A | 50281023 | LABEL, GREASE CYL. (see Page 4, Page 6) | 1 |
| 16 | 50282539 | BOLT 10X25 W/PLW+SPW | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 55 - COVER (TAIL PIPE)

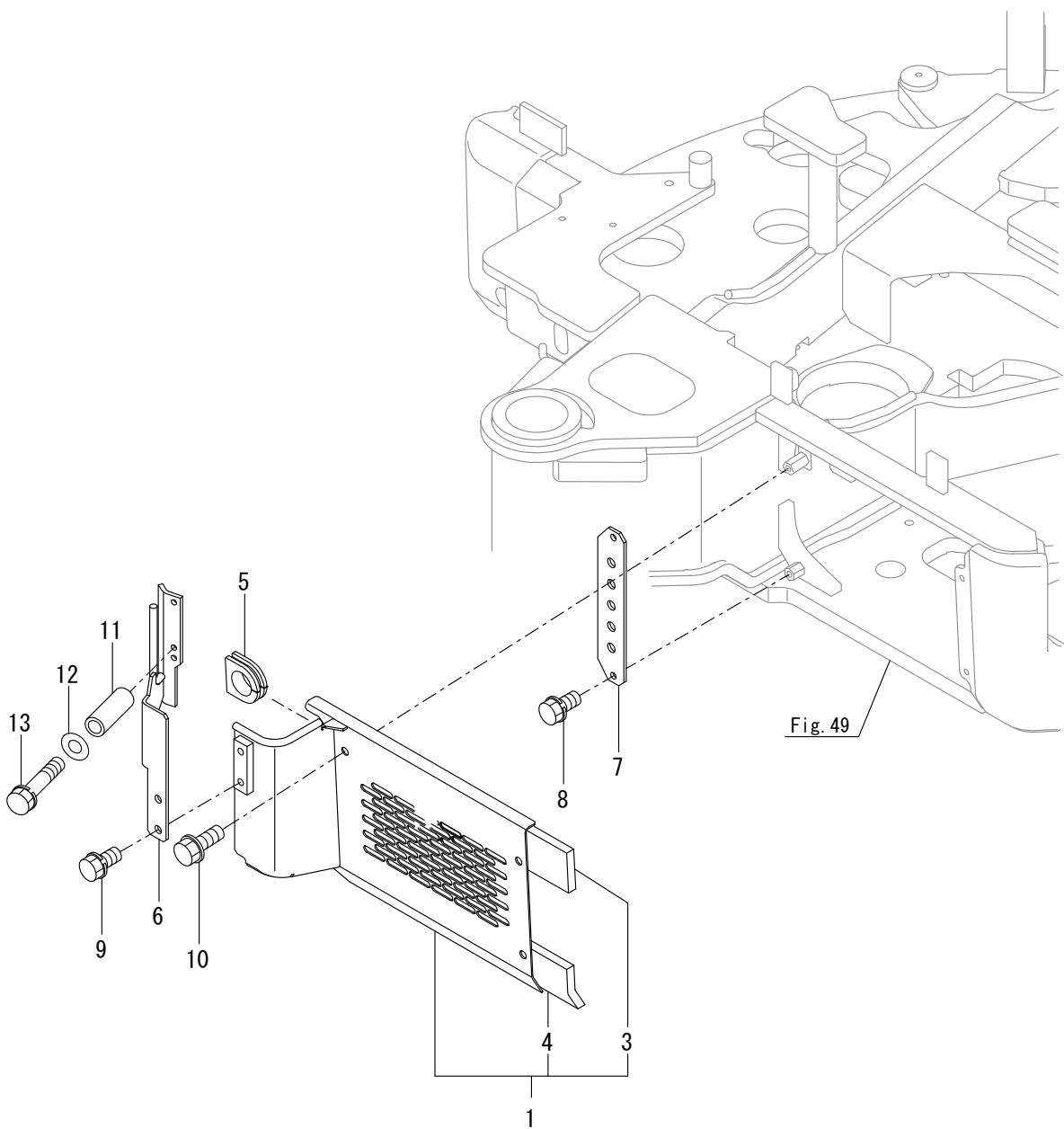


Z27 - COMPACT EXCAVATOR
FIG. 55 - COVER (TAIL PIPE)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--|------|
| 1 | 50284785 | CLAMP | 1 |
| 2 | 50284786 | PIPE ASSY, EXHAUST | 1 |
| 3 | 50284562 | COVER ASSY, TAIL | 1 |
| 4 | 50284560 | COVER B ASSY, TAIL (use with label 6A) | 1 |
| 5 | 50284564 | COVER A ASSY, TAIL | 1 |
| 6 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 6A | 50281029 | LABEL, MUFFLER US (see Page 4, Page 6) | 1 |
| 7 | 50282377 | WASHER 10 | 1 |
| 8 | 138111 | WASHER/POLISHED | 2 |
| 9 | 50282393 | SPRING WASHER 10 | 1 |
| 10 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 11 | 50282561 | BOLT M10X 65 PLATED | 1 |
| 12 | 50282594 | NUT M10 | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 56 - COVER (QUICK COUPLER SPEC.)

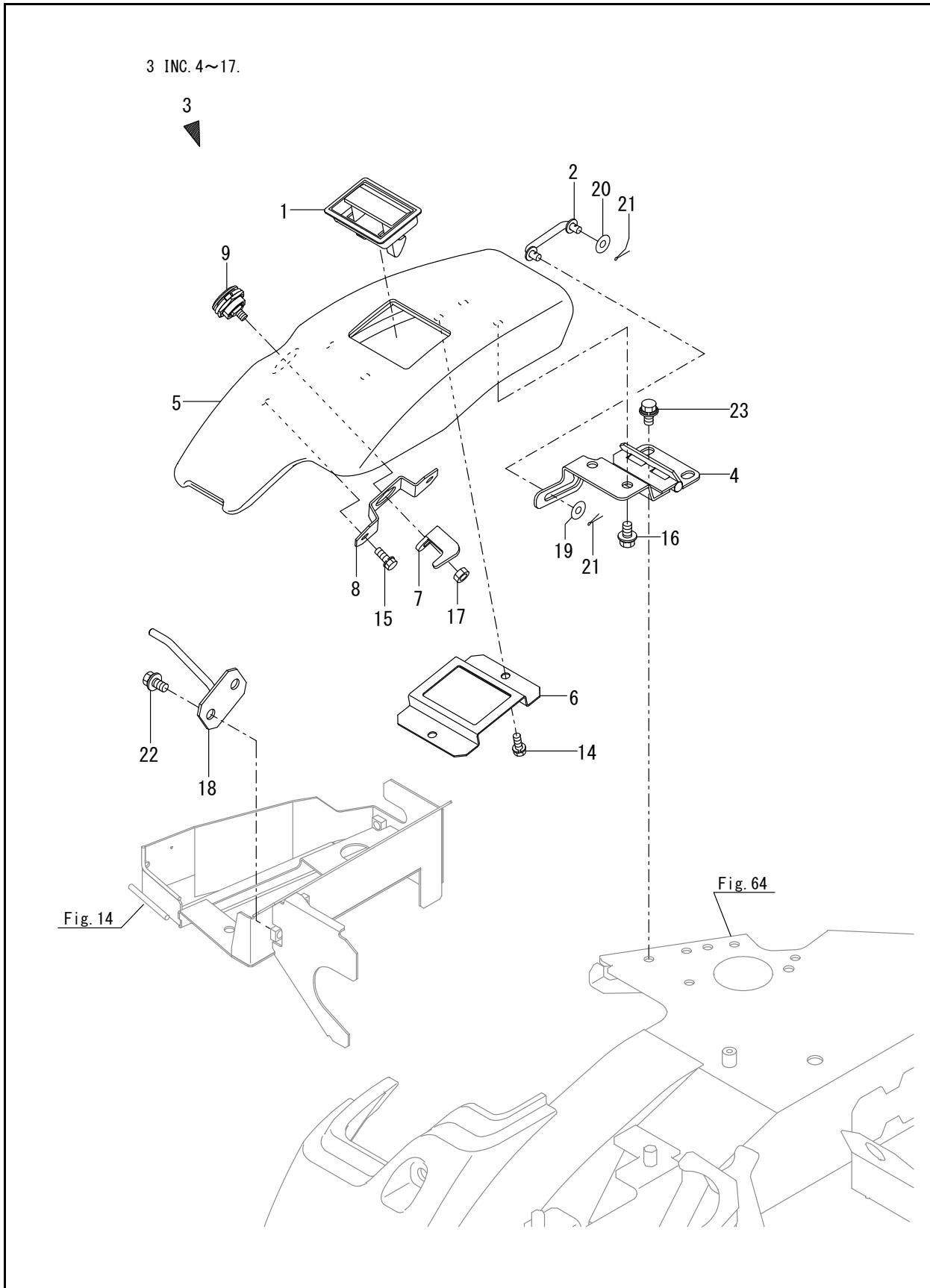


Z27 - COMPACT EXCAVATOR
FIG. 56 - COVER (QUICK COUPLER SPEC.)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284812 | COVER ASSY(OP | 1 |
| 3 | 50284813 | EV A,COVER | 1 |
| 4 | 50284814 | EV B,COVER | 1 |
| 5 | 50284224 | GROMMET 26 | 1 |
| 6 | 50284694 | GUIDE, HOSE | 1 |
| 7 | 50284764 | PLATE ASSY,HOSE | 1 |
| 8 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 9 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 10 | 50282537 | BOLT M10X16 | 3 |
| 11 | 50284399 | COLLAR | 1 |
| 12 | 50282380 | WASHER 8, POLISHED | 1 |
| 13 | 50284856 | BOLT M 8X 45 | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 57 - COVER (BONNET)

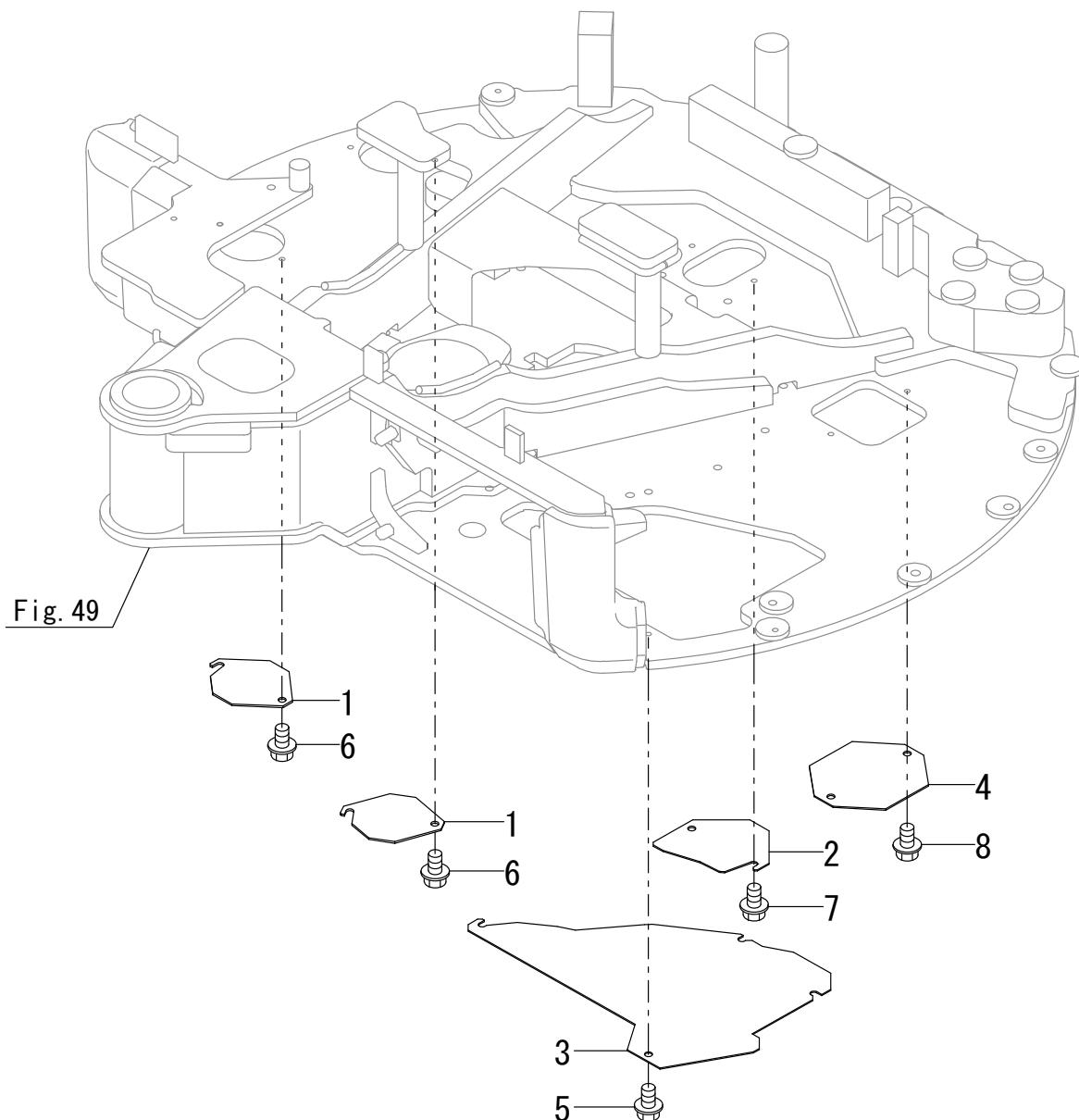


Z27 - COMPACT EXCAVATOR
FIG. 57 - COVER (BONNET)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50280945 | HANDLE, LOCK | 1 |
| 2 | 50284570 | ROD ASSY,STOPPER | 1 |
| 3 | 50284572 | COVER | 1 |
| 4 | 50284569 | HINGE,COVER B ASSY | 1 |
| 5 | 50284573 | COVER | 1 |
| 6 | 50284574 | STAY,CATCH | 1 |
| 7 | 50284575 | STAY,KEY | 1 |
| 8 | 50281464 | ROCK PLATE | 1 |
| 9 | 50280889 | KEY ASSY, CYLINDER | 1 |
| 14 | 50282505 | BOLT M 8X 12 | 2 |
| 15 | 50282505 | BOLT M 8X 12 | 2 |
| 16 | 50282537 | BOLT M10X16 | 2 |
| 17 | 50282576 | U-NUT M10 | 1 |
| 18 | 50284576 | ROD ASSY,CATCH | 1 |
| 19 | 50282361 | WASHER | 1 |
| 20 | 50282380 | WASHER 8, POLISHED | 1 |
| 21 | 50282418 | COTTER PIN 2.0X20 | 2 |
| 22 | 50282538 | BOLT M10X 20 | 2 |
| 23 | 50282539 | BOLT 10X25 W/PLW+SPW | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 58 - COVER (TURNING FRAME)

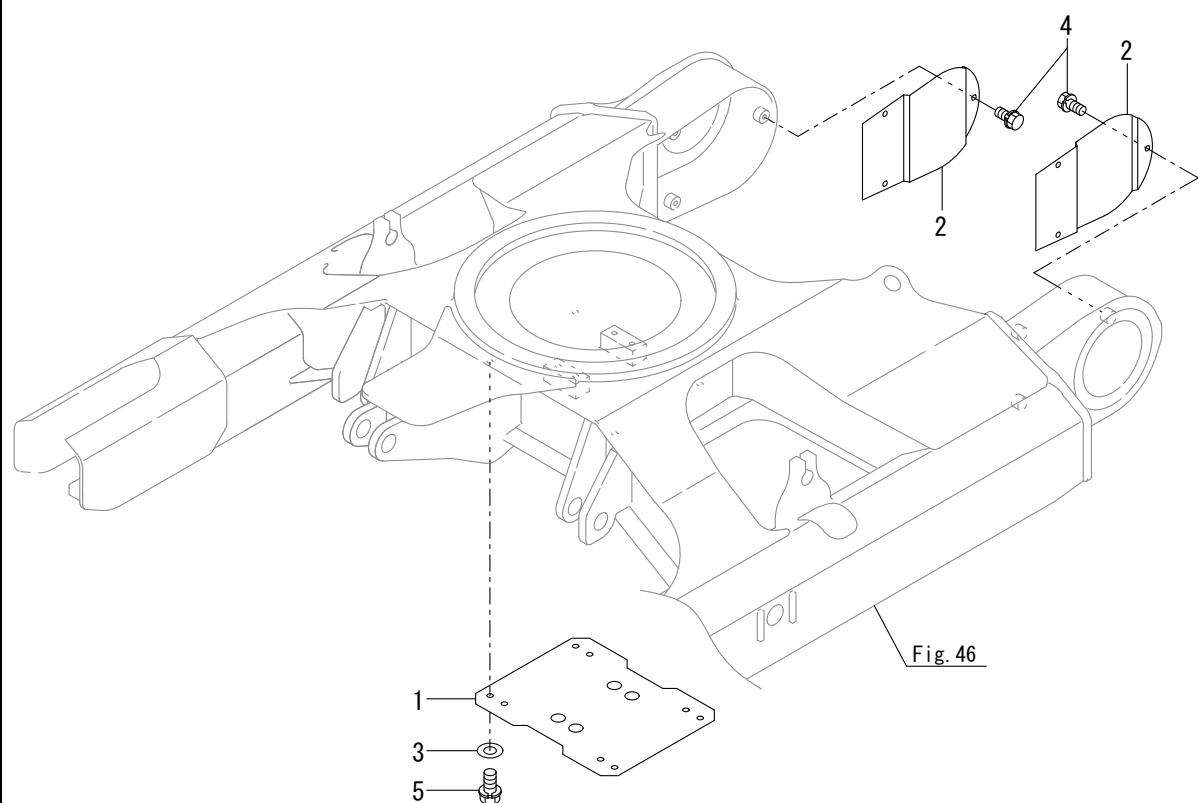


Z27 - COMPACT EXCAVATOR
FIG. 58 - COVER (TURNING FRAME)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50283540 | COVER, OIL SUMP | 2 |
| 2 | 50284567 | COVER, OIL SUMP | 1 |
| 3 | 50284568 | COVER, VALVE STAND | 1 |
| 4 | 50284571 | COVER, PUMP | 1 |
| 5 | 186619 | BOLT M10X 16 PLATED | 4 |
| 6 | 186619 | BOLT M10X 16 PLATED | 4 |
| 7 | 186619 | BOLT M10X 16 PLATED | 2 |
| 8 | 186619 | BOLT M10X 16 PLATED | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 59 - COVER (TRACK FRAME)

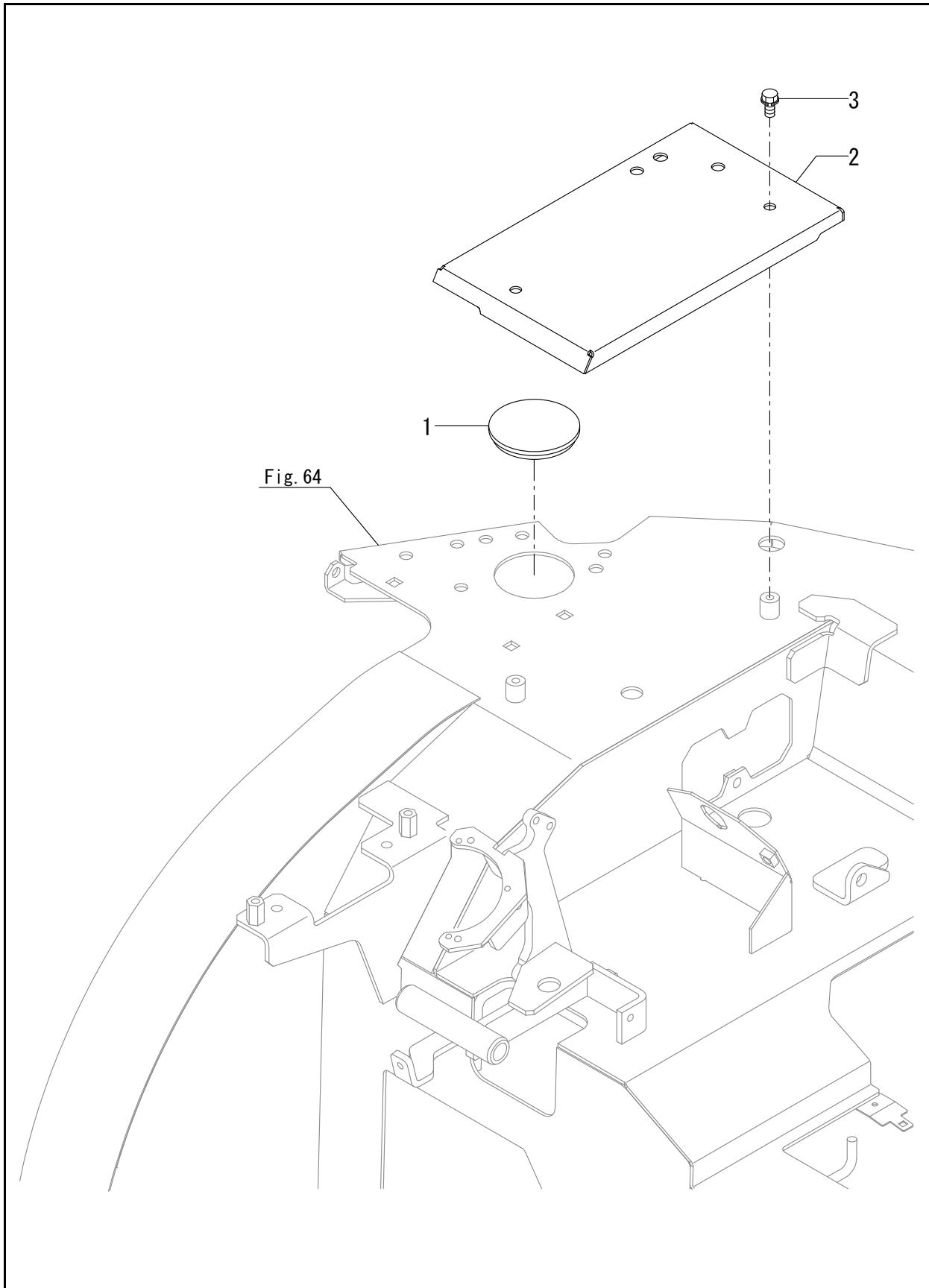


Z27 - COMPACT EXCAVATOR
FIG. 59 - COVER (TRACK FRAME)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284901 | UNDER COVER | 1 |
| 2 | 50284978 | TRAVEL COVER | 2 |
| 3 | 50284041 | WASHER 12,POLISHED | 4 |
| 4 | 50282515 | BOLT W/WASHER M10X20 | 6 |
| 5 | 50284101 | BOLT M12 X 25 | 4 |

Z27 - COMPACT EXCAVATOR
FIG. 60 - COVER (SEAT MOUNT)



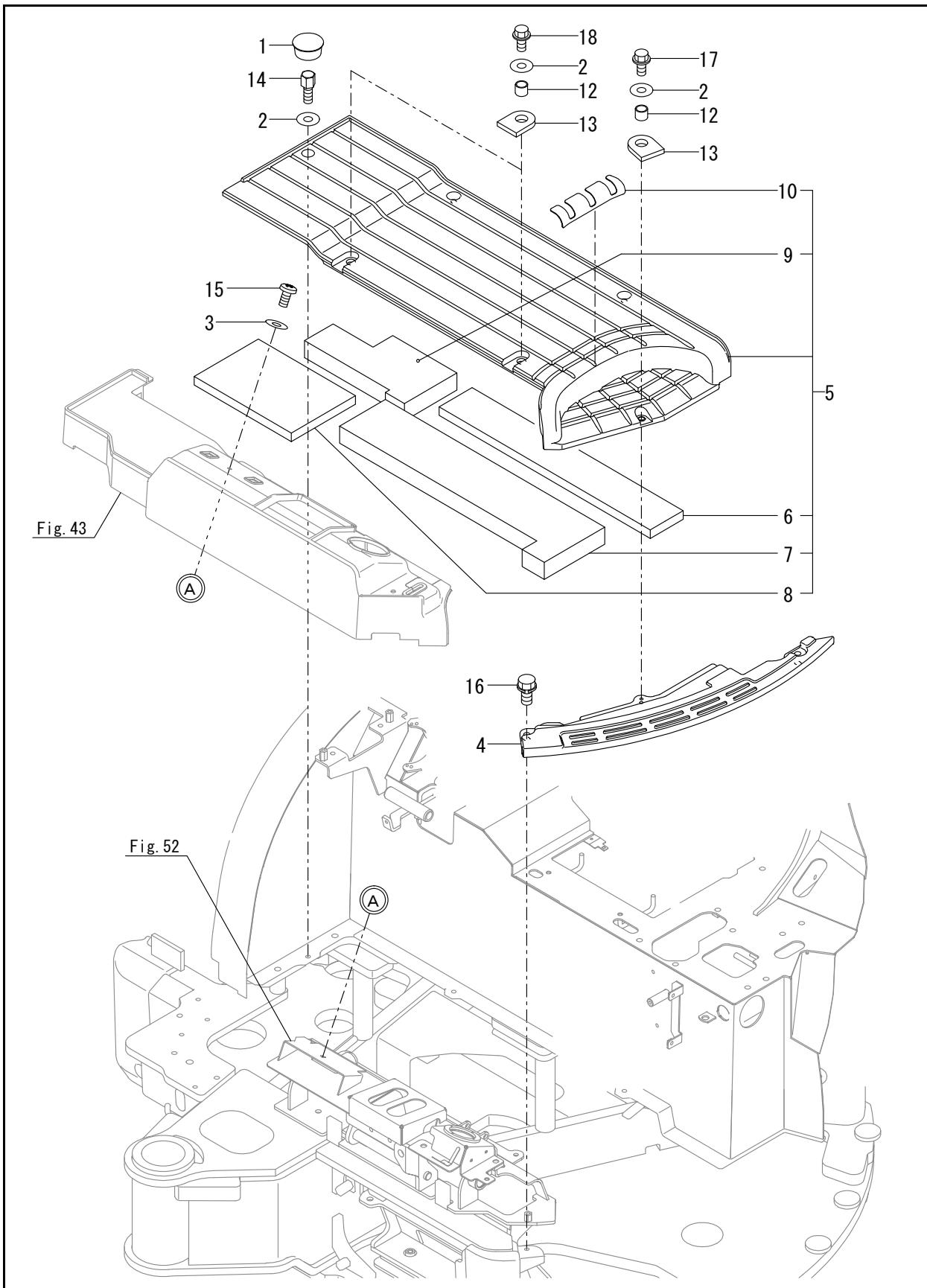
Z27 - COMPACT EXCAVATOR
FIG. 60 - COVER (SEAT MOUNT)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------------------|------|
| 1 | 50283272 | CAP | 1 |
| 2 | 50284578 | COVER, SEAT MOUNT (w/ canopy) | 1 |
| 3 | 50282506 | BOLT W/WASHER M8X16 (w/ canopy) | 3 |

Z27 - COMPACT EXCAVATOR

FIG. 61 - STEP

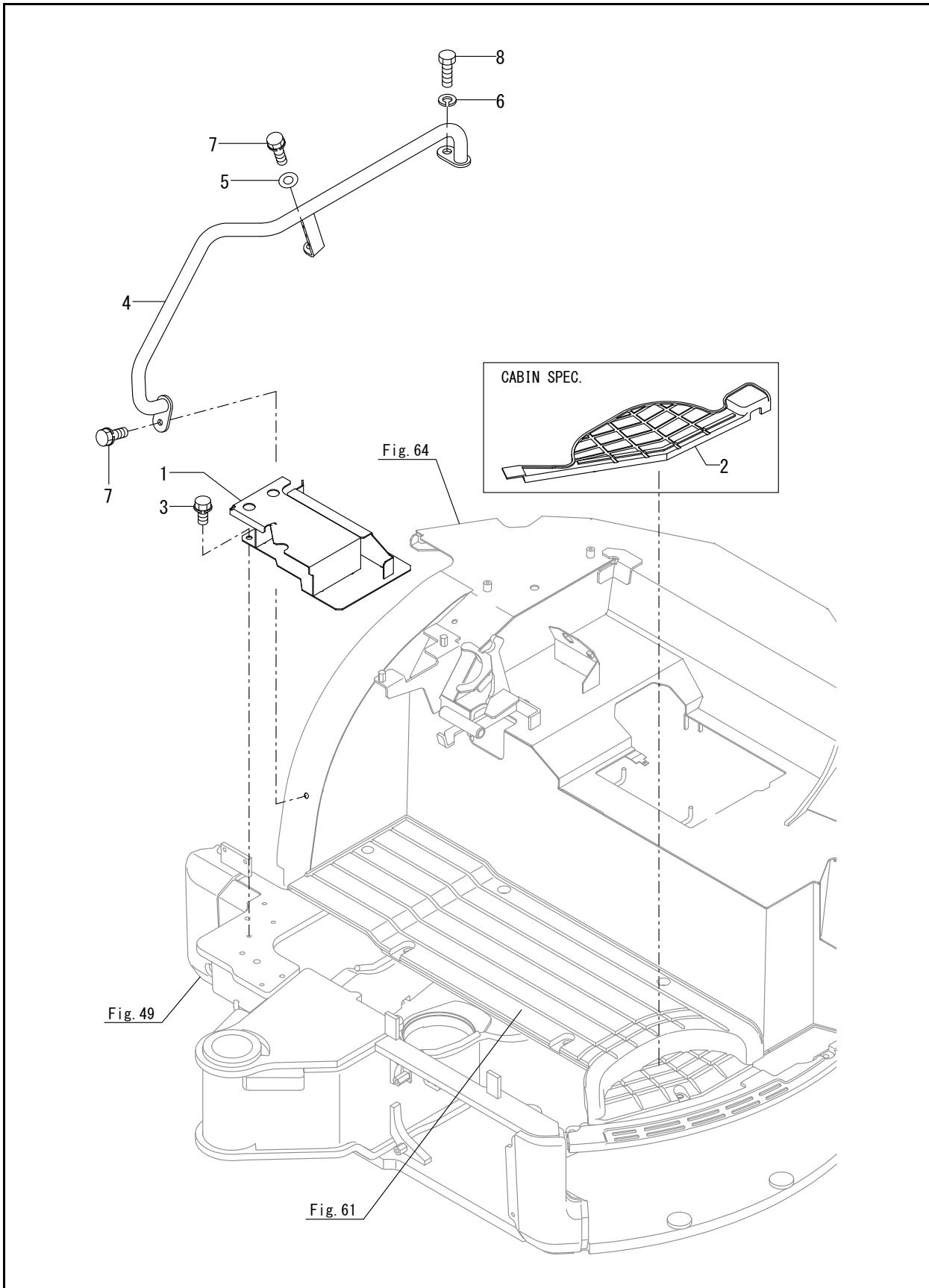


Z27 - COMPACT EXCAVATOR
FIG. 61 - STEP

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50283558 | CAP,CLIP | 3 |
| 2 | 50282361 | WASHER | 6 |
| 3 | 50282970 | WASHER M8 | 2 |
| 4 | 50283577 | PLATE, NON SLIP STEP | 1 |
| 5 | 50283579 | STEP A ASSY | 1 |
| 6 | 50283561 | EV A,STEP | 1 |
| 7 | 50283572 | EV D1,STEP | 1 |
| 8 | 50283573 | EV E,STEP | 1 |
| 9 | 50283574 | EV D2,STEP | 1 |
| 10 | 50283578 | NON SLIP SEAT | 1 |
| 12 | 50283580 | COLLAR 10X12X10 | 3 |
| 13 | 50283581 | PAD ABSOBER,STEP | 3 |
| 14 | 50283584 | BOLT 8X20 | 3 |
| 15 | 50282721 | SCREW | 2 |
| 16 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 17 | 425-34746 | BOLT M8 X 20 PLATED | 1 |
| 18 | 425-34765 | BOLT M8 X 25 PLATED | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 62 - FLOOR MAT & HANDRAIL



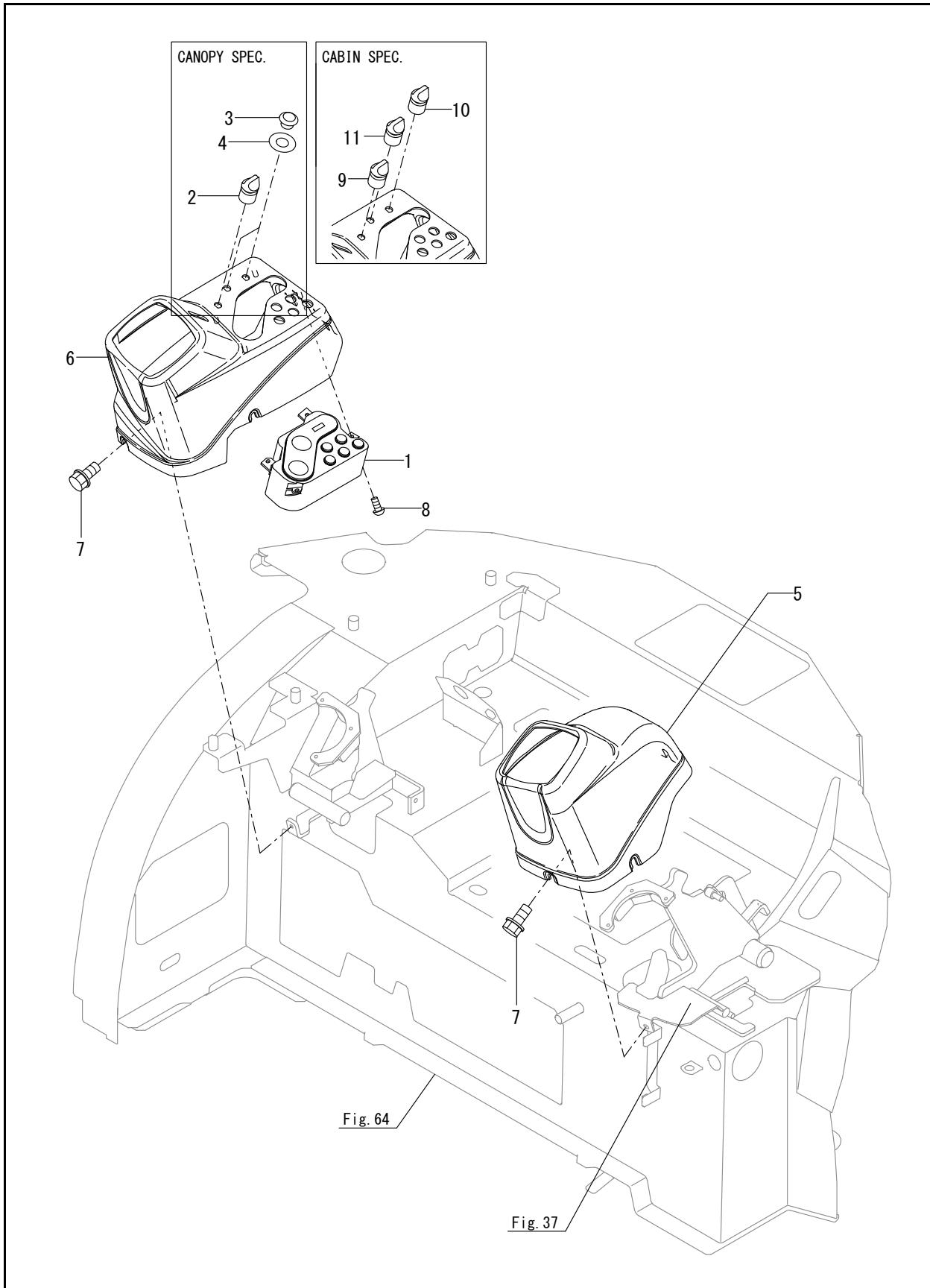
Z27 - COMPACT EXCAVATOR
FIG. 62 - FLOOR MAT & HANDRAIL

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------------------|------|
| 1 | 50284577 | STEP ASSY | 1 |
| 2 | 50283570 | MAT, FLOOR (w/ cabin) | 1 |
| 3 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 4 | 50284581 | HANDRAIL ASSY (w/ canopy) | 1 |
| 5 | 138111 | WASHER/POLISHED (w/ canopy) | 1 |
| 6 | 50282396 | SPRING WASHER 16 (w/ canopy) | 1 |
| 7 | 50282515 | BOLT W/WASHER M10X20 (w/ canopy) | 2 |
| 8 | 50284127 | BOLT M16 X 25 PLATED (w/ canopy) | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 63 - INSTRUMENT PANEL



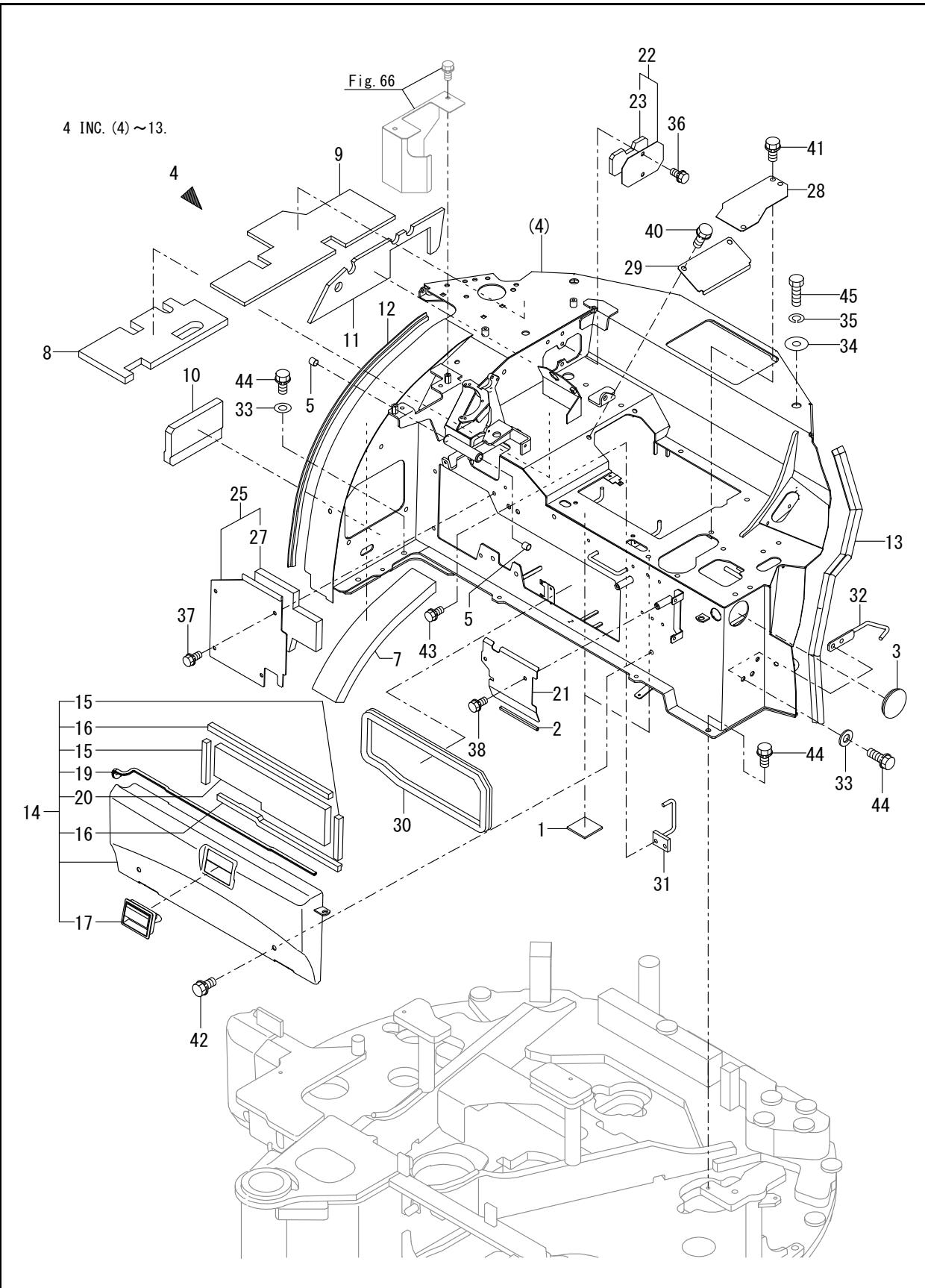
Z27 - COMPACT EXCAVATOR
FIG. 63 - INSTRUMENT PANEL

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------------------|------|
| 1 | 50282078 | MONITOR ASSY | 1 |
| 2 | 50282843 | SWITCH ASSY, LIGHT (w/ canopy) | 1 |
| 3 | 50282845 | CAP (w/ canopy) | 2 |
| 4 | 50282846 | GASKET (w/ canopy) | 2 |
| 5 | 50283587 | IN-PANE,L | 1 |
| 6 | 50283588 | IN-PANE,R | 1 |
| 7 | 50281318 | BOLT 8X 16 | 6 |
| 8 | 50282422 | SCREW 5X12 | 4 |
| 9 | 50282843 | SWITCH ASSY, LIGHT (w/ cabin) | 1 |
| 10 | 50282844 | SWITCH, HEATER (w/ cabin) | 1 |
| 11 | 50283231 | SWITCH ASSY,WASHER (w/ cabin) | 1 |

Z27 - COMPACT EXCAVATOR

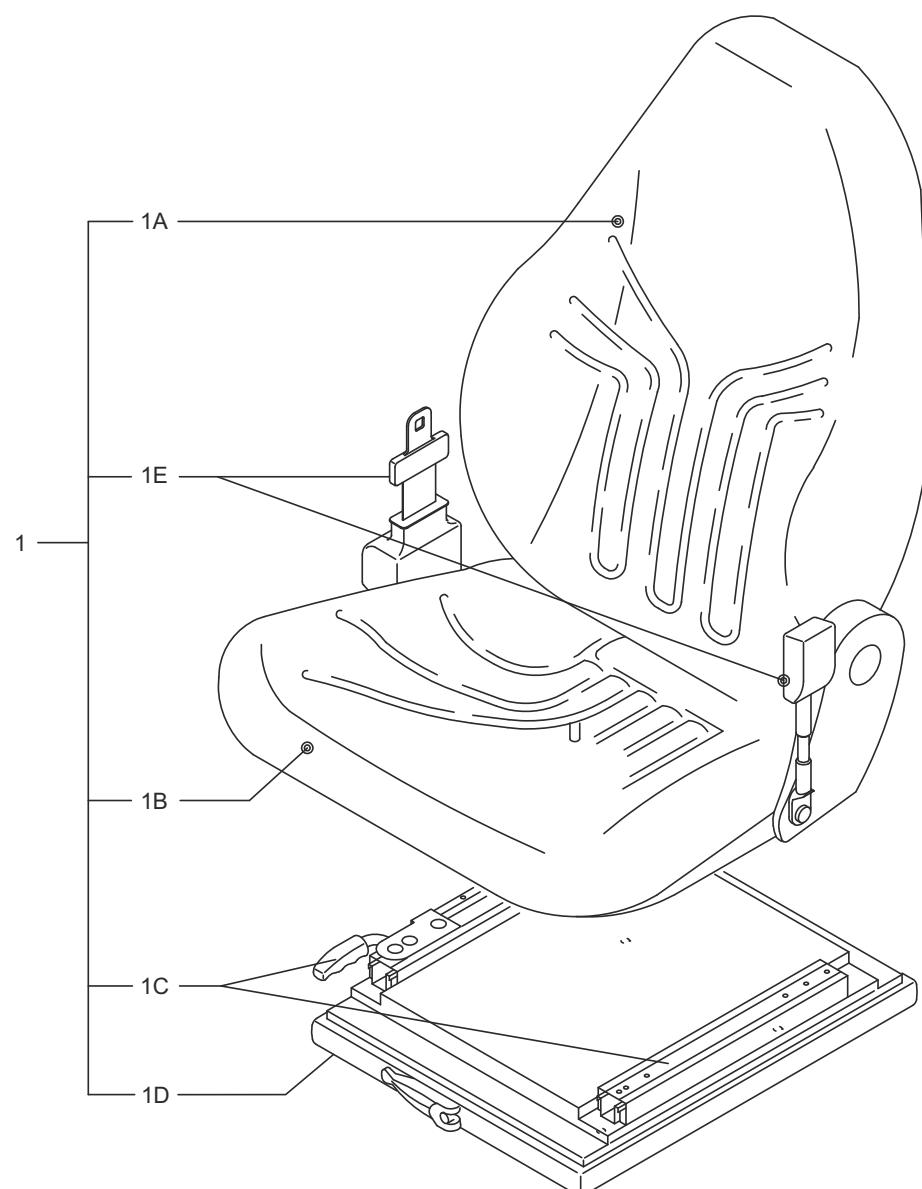
FIG. 64 - SEAT MOUNT



Z27 - COMPACT EXCAVATOR
FIG. 64 - SEAT MOUNT

| Ref. No. | Part No. | Description | Qty. | Ref. No. | Part No. | Description | Qty. |
|-------------|----------|---|------|-------------|----------|----------------------|------|
| 1 | 50281056 | RUBBER PLATE | 2 | 31 | 50284444 | CLAMP,HOSE | 1 |
| 2 | 50281049 | SEAL 125 | 1 | 32 | 50284824 | GUIDE ASSY,HOSE | 1 |
| 3 | 50283272 | CAP | 1 | 33 | 138111 | WASHER/POLISHED | 4 |
| 4 | 50284818 | MOUNT ASSY, SEAT (use with labels 13A, 13B, 13C (canopy) or 13A, 13B (cabin)) | 1 | 34 | 50282389 | WASHER, 14 | 1 |
| 5 | 50282726 | BUSHING 1415 | 2 | 35 | 50282396 | SPRING WASHER 16 | 1 |
| 7 | 50283600 | EV A,SEAT MOUNT | 1 | 36 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 8 | 50284819 | EV B,SEAT MOUNT | 1 | 37 | 50282506 | BOLT W/WASHER M8X16 | 4 |
| 9 | 50284582 | GLASSWOOL A | 1 | 38 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 10 | 50283603 | SPONGE | 1 | 40 | 50282514 | BOLT M10X 16 | 2 |
| 11 | 50284583 | GLASSWOOL B | 1 | 41 | 50282514 | BOLT M10X 16 | 2 |
| 12 | 50282888 | SEAL B | 1 | 42 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 13 | 50283967 | RUBBER, SEAL B | 1 | 43 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 13A | 50281019 | LABEL, MANUAL US (see Page 4, Page 6) | 1 | 44 | 50282516 | BOLT W/WASHER M10X25 | 6 |
| 13B | 50281033 | LABEL, LEVER LOCK US (see Page 4, Page 6) | 1 | 45 | 50284127 | BOLT M16 X 25 PLATED | 1 |
| 13C | 50281174 | LABEL, PIN US (w/ canopy) (see Page 4) | 1 | | | | |
| 14 | 50283958 | COVER ASSY,MANUAL (use with label 20A) | 1 | | | | |
| 15 | 50282905 | SEAL, G RADIATOR | 2 | | | | |
| 16 | 50282920 | SEAL A, UNIT | 2 | | | | |
| 17 | 50280945 | HANDLE, LOCK | 1 | | | | |
| 19 | 50283592 | SEAL | 1 | | | | |
| 20 | 50283962 | EV F,SEAT MOUNT | 1 | | | | |
| 20A | 50281172 | LABEL, SUPPORT US (see Page 4, Page 6) | 1 | | | | |
| 21 | 50283593 | COVER, ELECTRIC | 1 | | | | |
| 22 | 50284579 | COVER | 1 | | | | |
| 23 | 50284580 | GLASSWOOL C | 1 | | | | |
| 25 | 50283959 | COVER A,SEAT M ASSY | 1 | | | | |
| 27 | 50283963 | EV G,SEAT MOUNT | 1 | | | | |
| 28 | 50283341 | COVER,SEAT MOUNT UP | 1 | | | | |
| 29 | 50283343 | COVER, SEAT MOUNT | 1 | | | | |
| 30 | 50282774 | SEAL,COVER A | 1 | | | | |

**Z27 - COMPACT EXCAVATOR
SEAT**



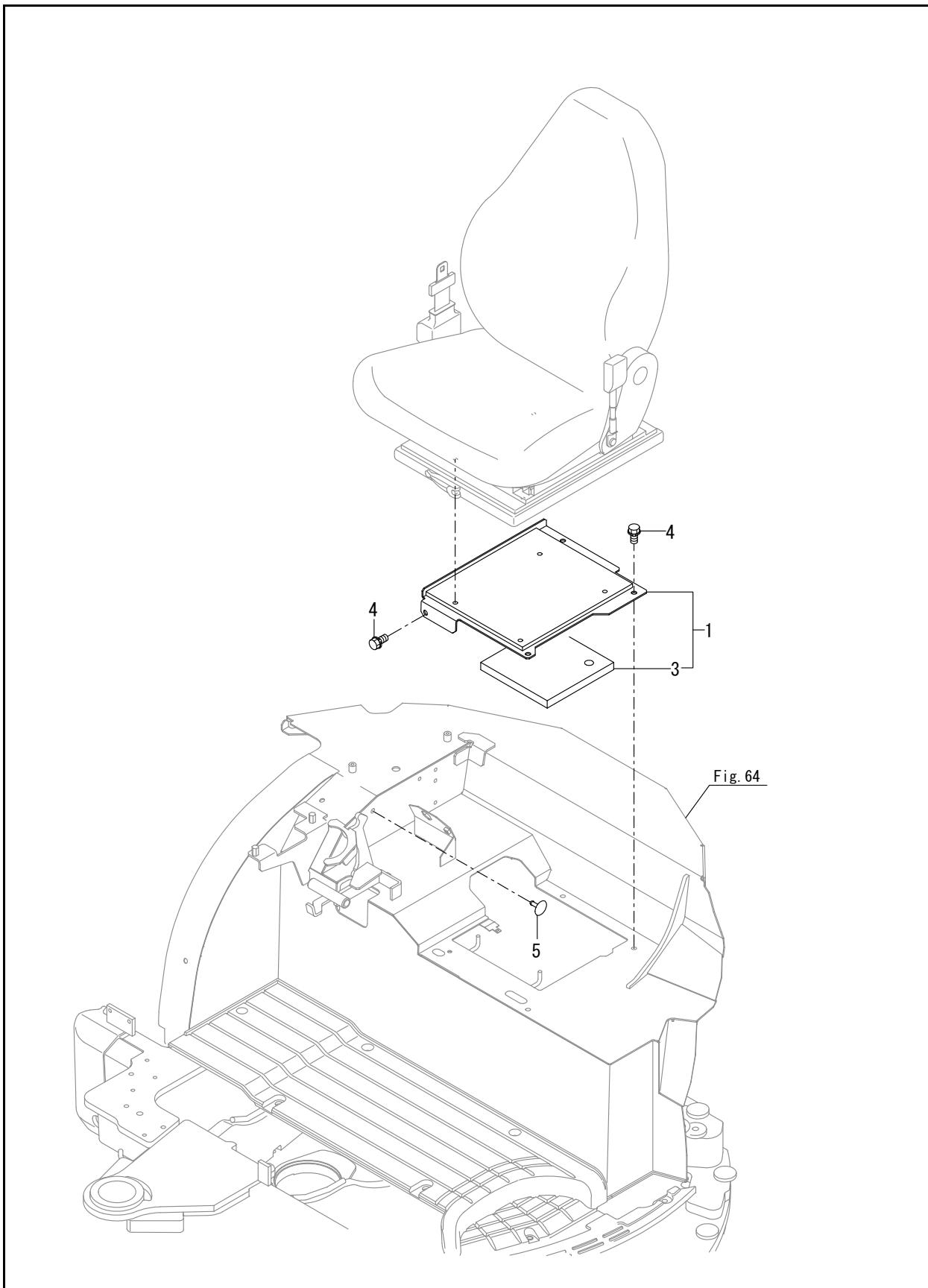
Z27 - COMPACT EXCAVATOR SEAT

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 |

Z27 - COMPACT EXCAVATOR

FIG. 65 - SEAT PLATE



Z27 - COMPACT EXCAVATOR
FIG. 65 - SEAT PLATE

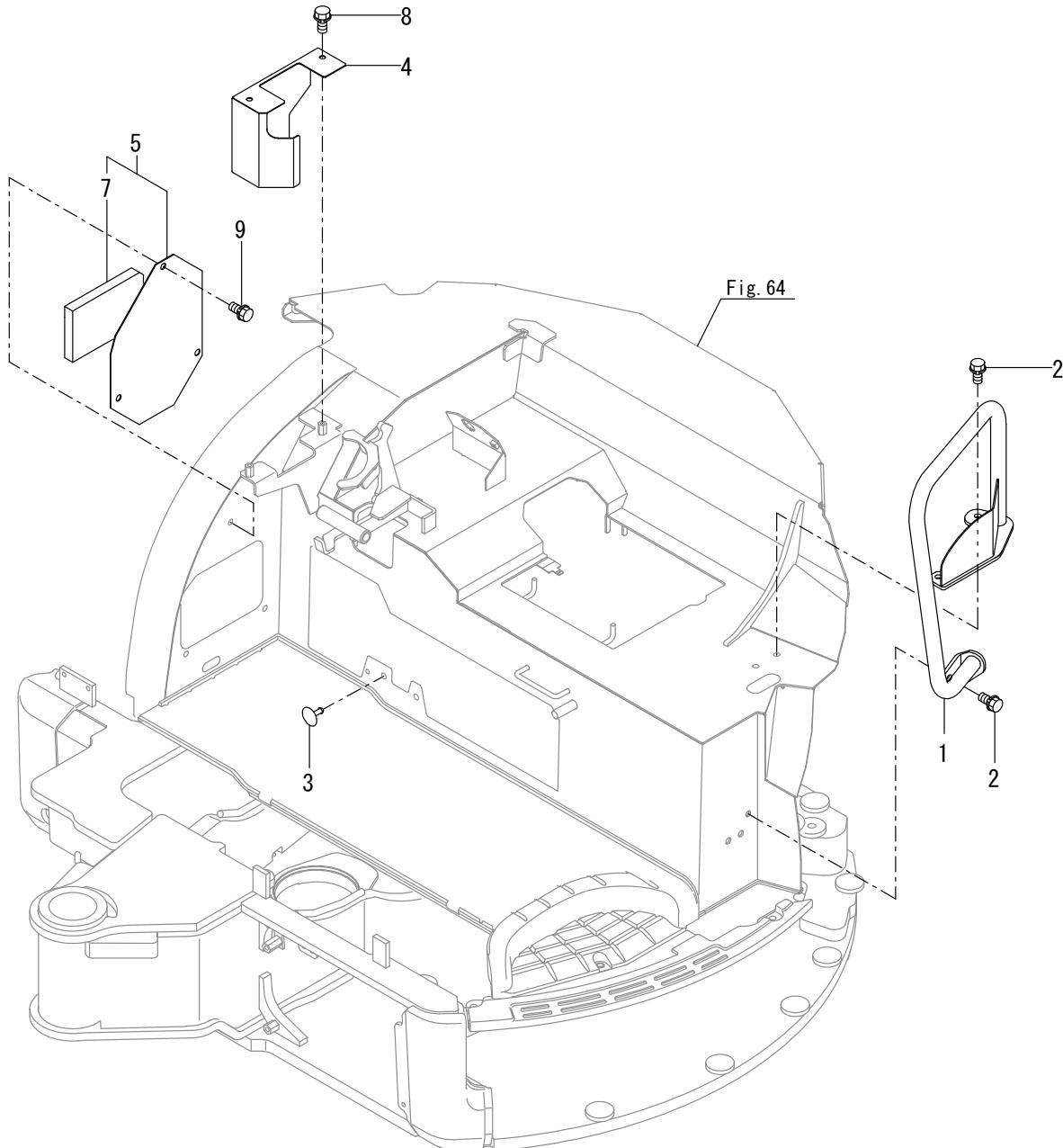
Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50283337 | PLATE ASSY,SEAT GRM | 1 |
| 3 | 50283338 | EV D,SEAT MOUNT | 1 |
| 4 | 50282515 | BOLT W/WASHER M10X20 | 4 |
| 5 | 50280782 | CLIP | 4 |

Z27 - COMPACT EXCAVATOR

FIG. 66 - HANDRAIL & COVER

NOTE: ONLY USED ON CANOPY EQUIPPED MACHINES



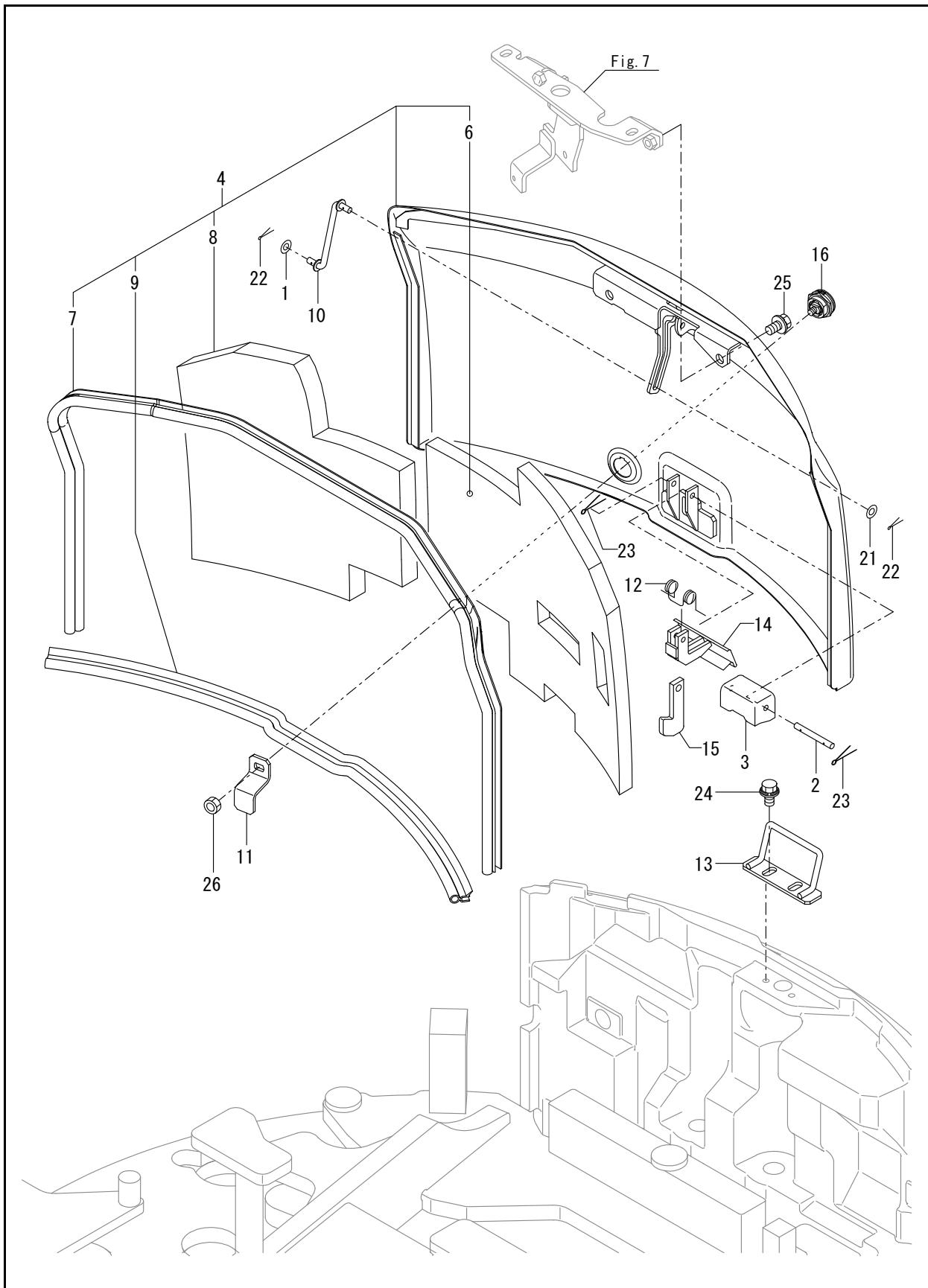
Z27 - COMPACT EXCAVATOR
FIG. 66 - HANDRAIL & COVER

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 67 - BONNET (1)



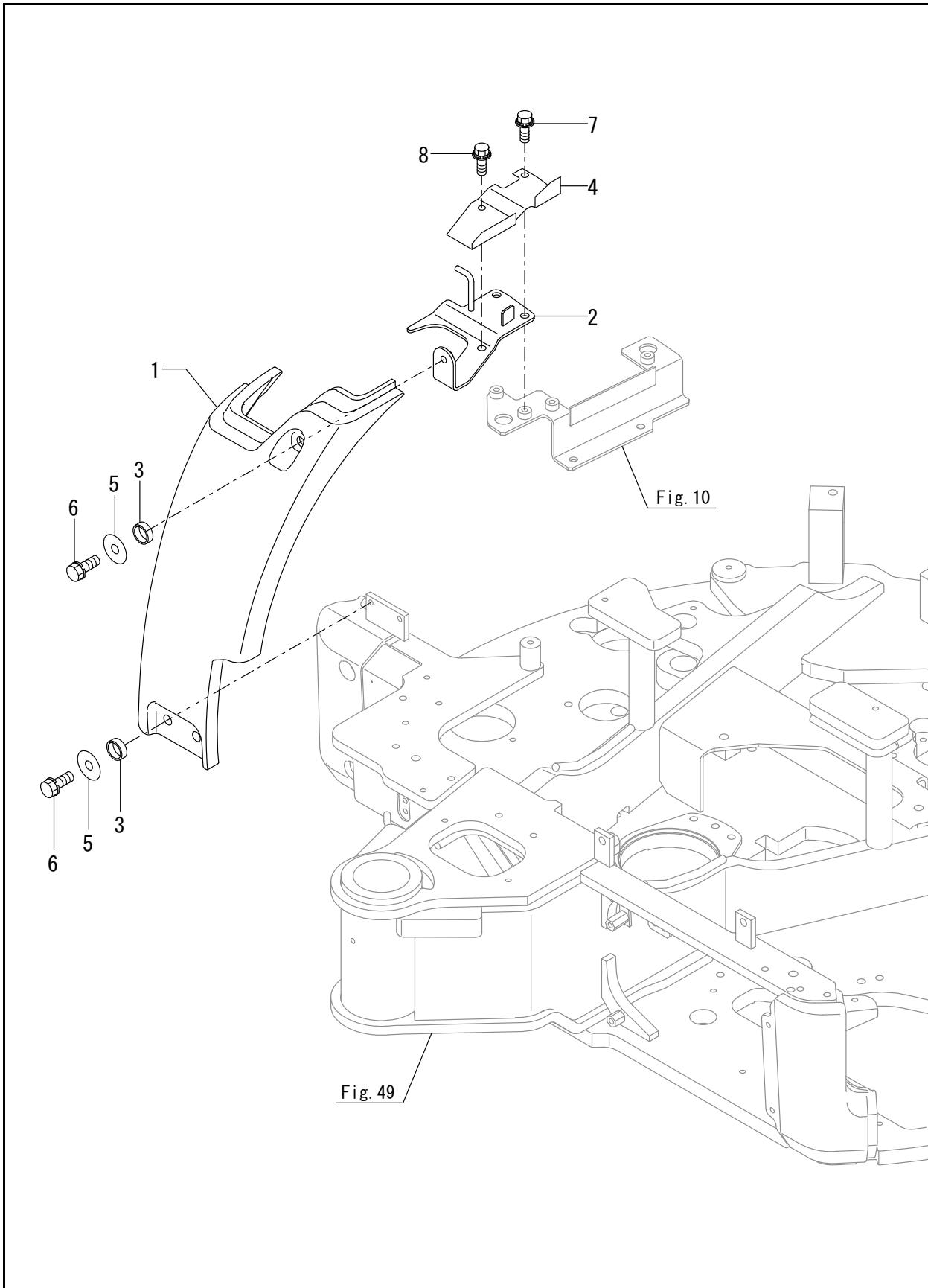
Z27 - COMPACT EXCAVATOR
FIG. 67 - BONNET (1)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---|------|
| 1 | 50282361 | WASHER | 1 |
| 2 | 50281141 | SHAFT | 1 |
| 3 | 50281142 | COVER,BONNET LOCK | 1 |
| 4 | 50286361 | COVER ASSY (use with labels 9A, 9B, 9C) | 1 |
| 6 | 50286514 | ISOLATION PAD | 1 |
| 7 | 50284587 | SEAL,1650 | 1 |
| 8 | 50284586 | EV, BONNET A | 1 |
| 9 | 50284437 | RUBBER,SEAL 880 | 1 |
| 9A | 50281021 | LABEL, HYD.OIL TANK (see Page 4, Page 6) | 1 |
| 9B | 50281026 | LABEL,SWING AREA US (see Page 4, Page 6) | 1 |
| 9C | 50281028 | LABEL, ENG,COVER US (see Page 4, Page 6) | 1 |
| 10 | 50281051 | ROD,STOPPER | 1 |
| 11 | 50281143 | PLATE,ROCK | 1 |
| 12 | 50281351 | SPRING, CATCH | 1 |
| 13 | 50284821 | CATCH ASSY,LOCK | 1 |
| 14 | 50282713 | LEVER, LOCK | 1 |
| 15 | 50280794 | CATCHER | 1 |
| 16 | 50280889 | KEY ASSY, CYLINDER | 1 |
| 21 | 50282380 | WASHER 8, POLISHED | 1 |
| 22 | 50282418 | COTTER PIN 2.0X20 | 2 |
| 23 | 50282418 | COTTER PIN 2.0X20 | 2 |
| 24 | 50282539 | BOLT 10X25 W/PLW+SPW | 2 |
| 25 | 50282539 | BOLT 10X25 W/PLW+SPW | 2 |
| 26 | 50282576 | U-NUT M10 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 69 - BONNET (2)



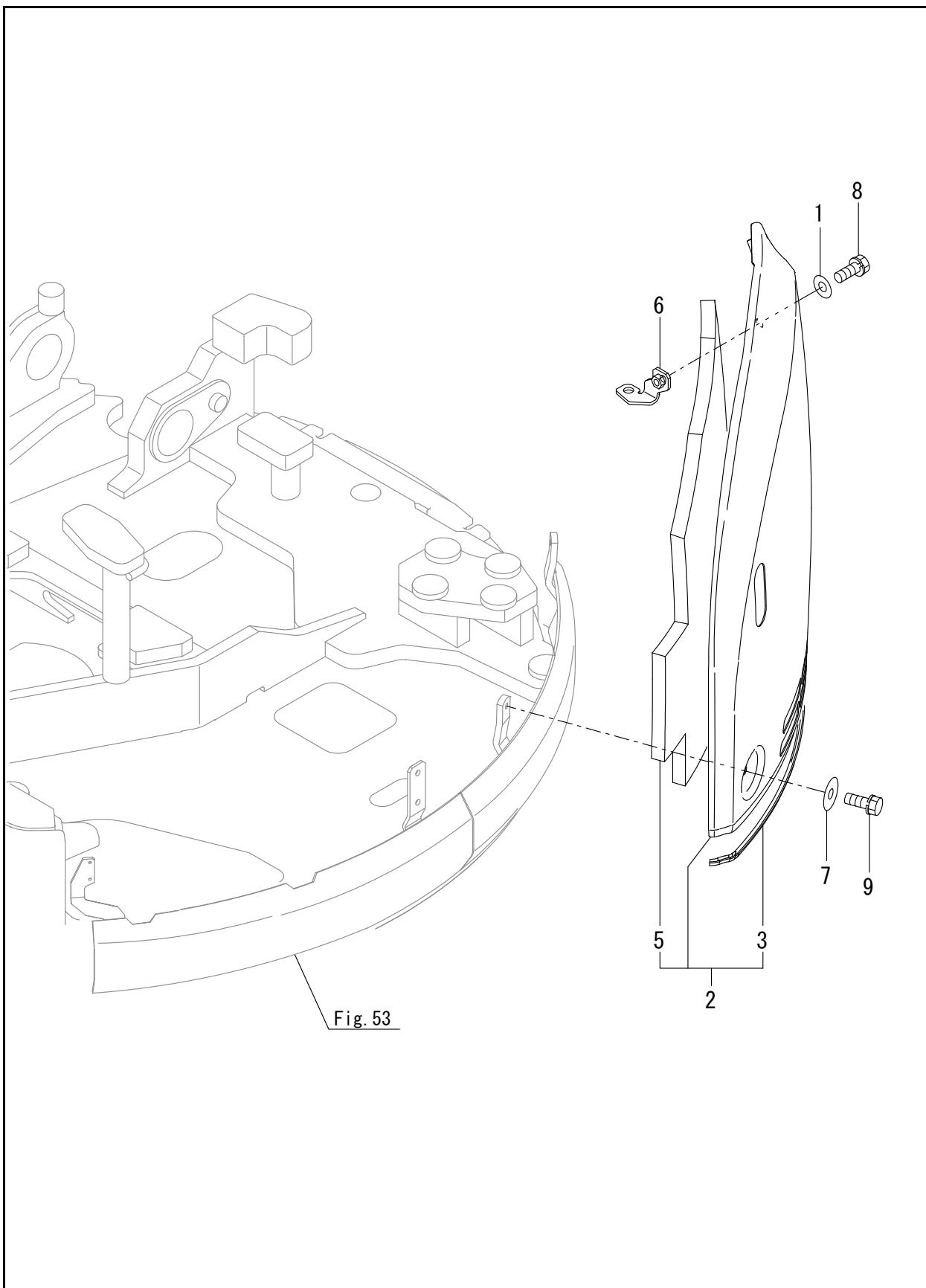
Z27 - COMPACT EXCAVATOR
FIG. 69 - BONNET (2)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284588 | BONNET (YELLOW) | 1 |
| 2 | 50284590 | PLATE ASSY | 1 |
| 3 | 50283614 | COLOR 13X16X5 | 3 |
| 4 | 50284822 | PLATE | 1 |
| 5 | 50282387 | WASHER 10 | 3 |
| 6 | 50282516 | BOLT W/WASHER M10X25 | 3 |
| 7 | 50282538 | BOLT M10X 20 | 2 |
| 8 | 50282538 | BOLT M10X 20 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 70 - BONNET (3)



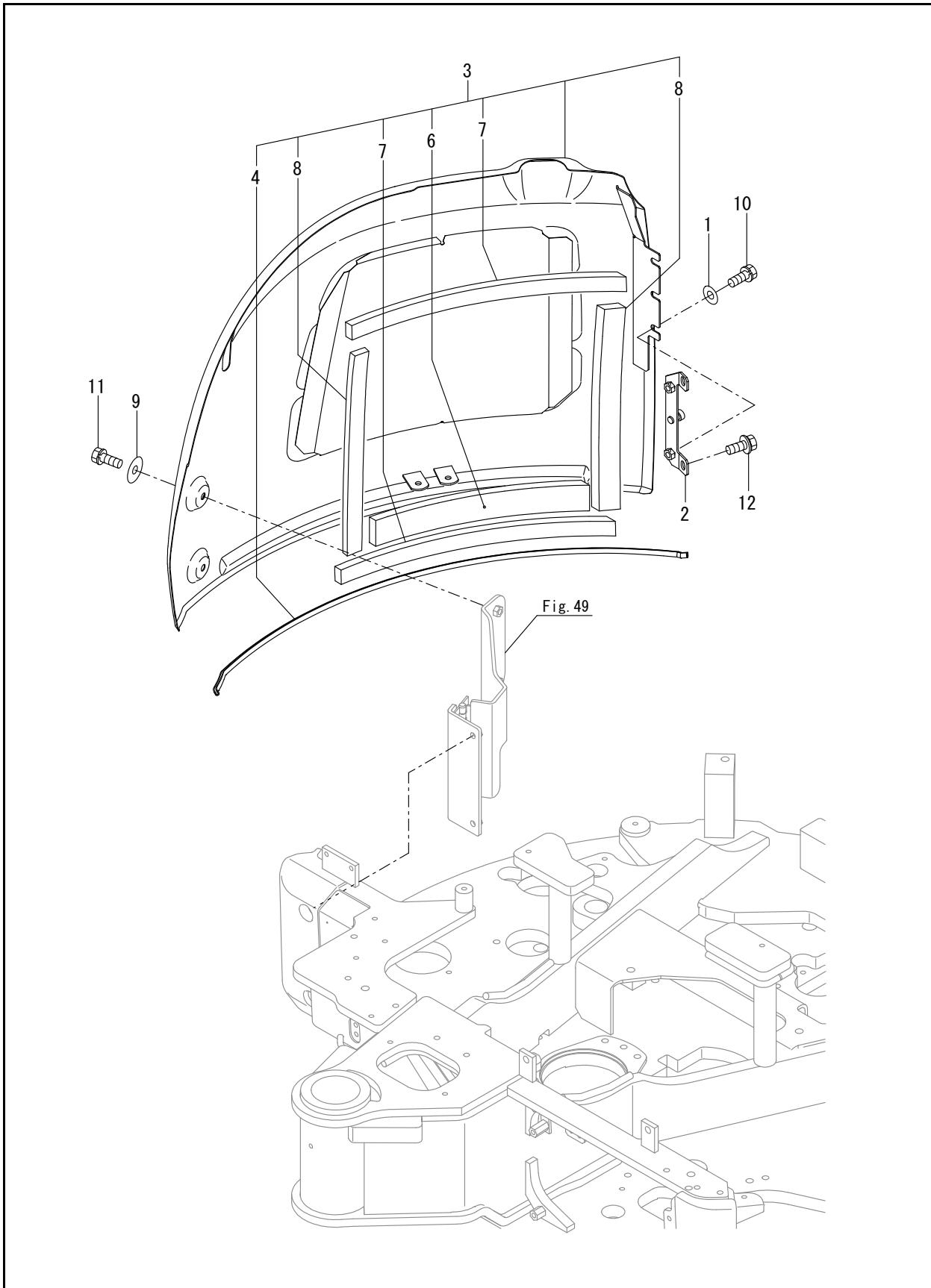
Z27 - COMPACT EXCAVATOR
FIG. 70 - BONNET (3)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---|------|
| 1 | 50282969 | WASHER | 1 |
| 2 | 50286269 | COVER ASSY (use with label 5A) | 1 |
| 3 | 50283083 | SEAL | 1 |
| 5 | 50284594 | EV,BONNET L | 1 |
| 5A | 50281024 | LABEL, BATTERY US (see Page 4, Page 6) | 1 |
| 6 | 50284595 | BRACKET | 1 |
| 7 | 50282387 | WASHER 10 | 2 |
| 8 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 9 | 50282516 | BOLT W/WASHER M10X25 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 72 - BONNET (4)



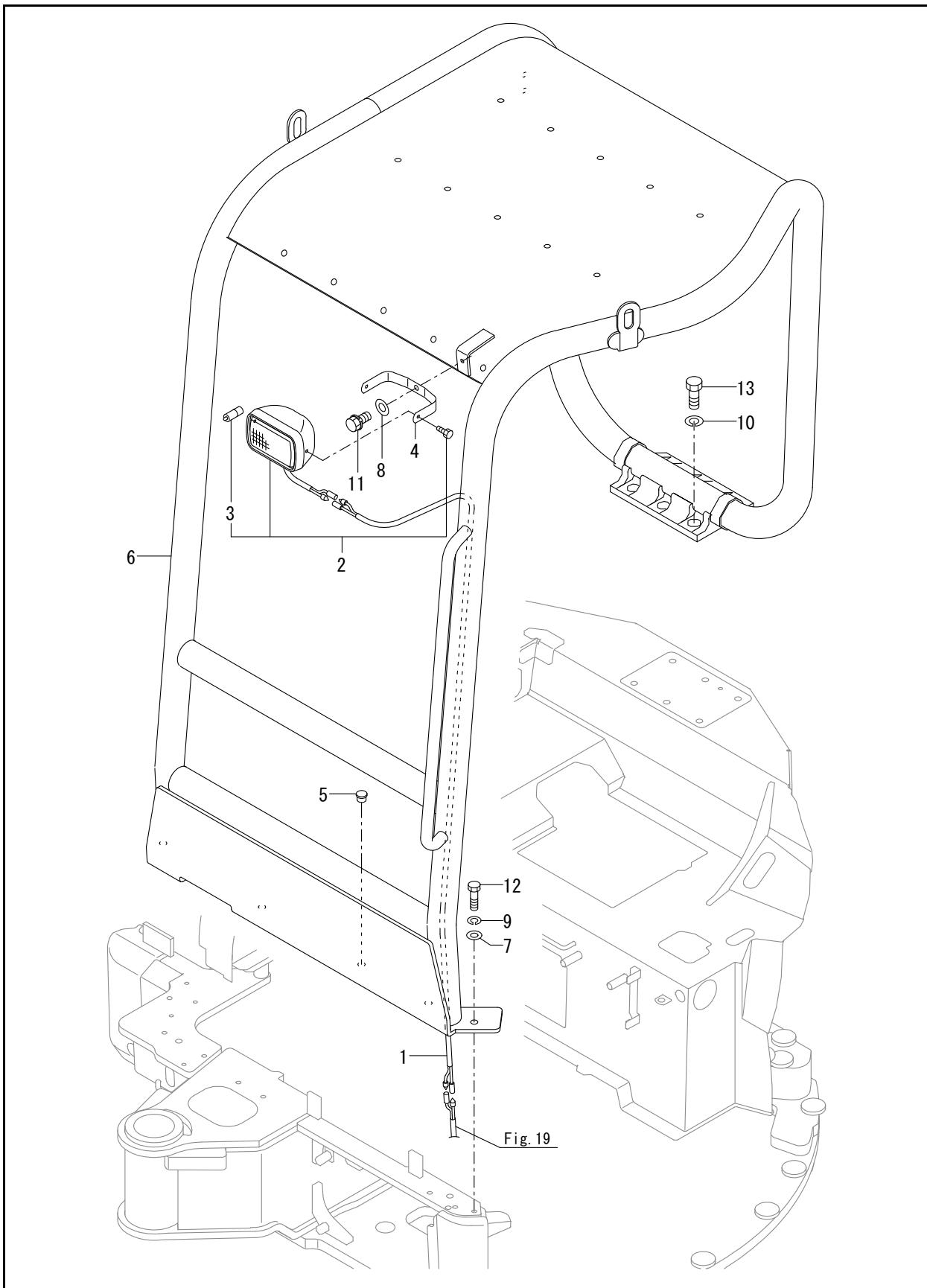
Z27 - COMPACT EXCAVATOR
FIG. 72 - BONNET (4)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---|------|
| 1 | 50282969 | WASHER | 2 |
| 2 | 50284584 | BRACKET ASSY,BR | 1 |
| 3 | 50286271 | COVER ASSY (use with labels 8A, 8B) | 1 |
| 4 | 50283250 | EDGE RUBBER, 980 | 1 |
| 6 | 50284823 | EV A,BONNET R | 1 |
| 7 | 50284598 | SEAL A,BONNET R | 2 |
| 8 | 50284599 | SEAL B,BONNET R | 2 |
| 8A | 50281425 | LABEL, ENG ROOM (see Page 4, Page 6) | 1 |
| 8B | 50281029 | LABEL, MUFFLER US (see Page 4, Page 6) | 1 |
| 9 | 50282387 | WASHER 10 | 2 |
| 10 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 11 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 12 | 50282538 | BOLT M10X 20 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 74 - CANOPY



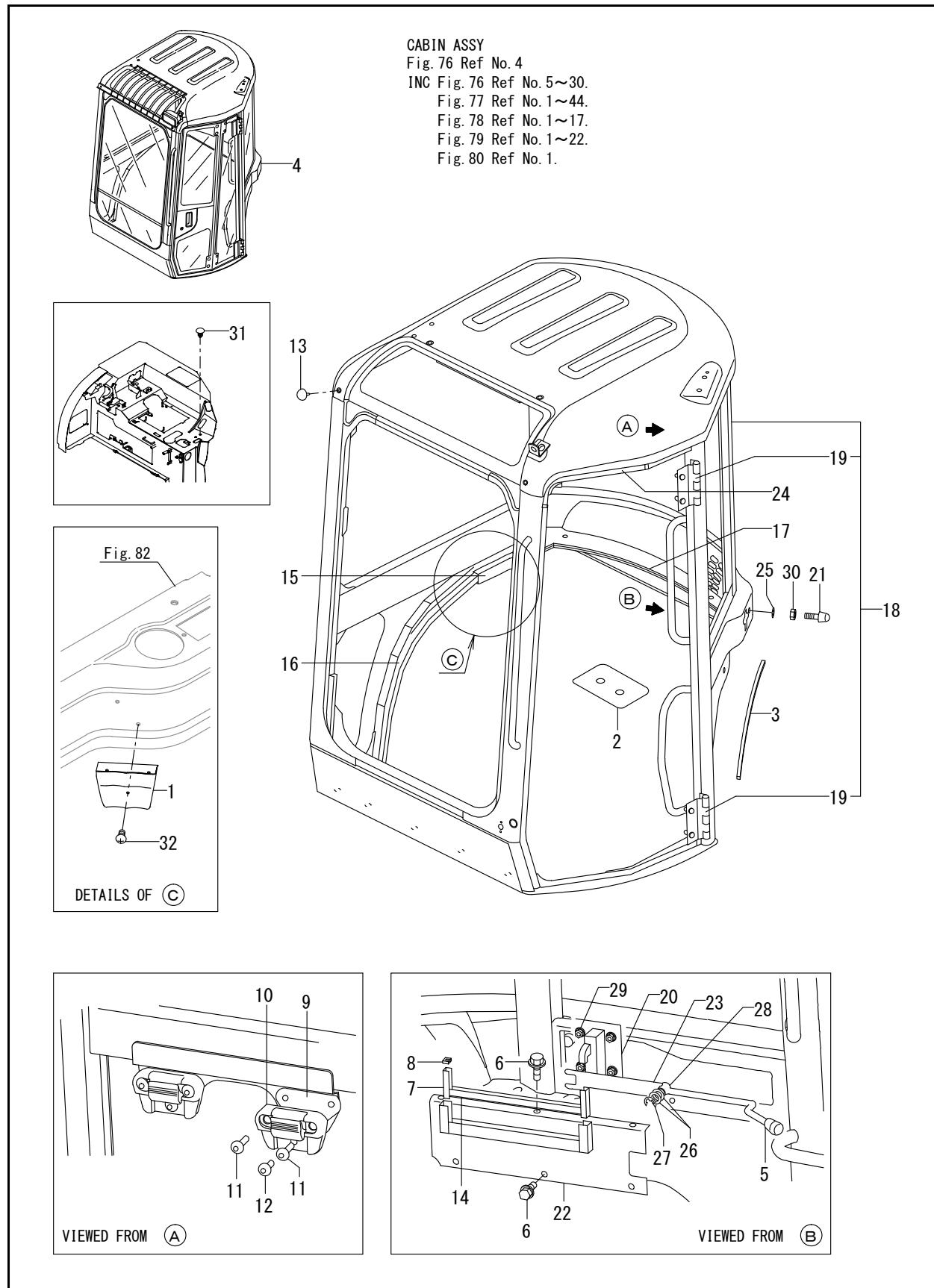
Z27 - COMPACT EXCAVATOR
FIG. 74 - CANOPY

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|--|------|
| 1 | 50282956 | HARNESS,CANOPY LAMP | 1 |
| 2 | 50283431 | LIGHT ASSY | 1 |
| 3 | 50283432 | VALVE 12V55W | 1 |
| 4 | 50286197 | LAMP STAY | 1 |
| 5 | 50283532 | ANCHOR CLIP | 1 |
| 6 | 50283229 | CANOPY ASSY, ROPS (use with labels 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H) | 1 |
| 6A | 50281172 | LABEL, SUPPORT US (see Page 4) | 1 |
| 6B | 50285051 | LABEL,LIFT Q US (see Page 4) | 1 |
| 6C | 50281020 | LABEL,SLOPE US (see Page 4) | 1 |
| 6D | 50281022 | LABEL, TRANSPORT US (see Page 4) | 1 |
| 6E | 50281025 | LABEL, NEUTRAL US (see Page 4) | 1 |
| 6F | 50281031 | LABEL, ROPS US (see Page 4) | 1 |
| 6G | 50281032 | LABEL, SEAT BELT US (see Page 4) | 1 |
| 6H | 50281037 | LABEL, 2-WAY US (see Page 4) | 1 |
| 7 | 50282756 | WASHER | 4 |
| 8 | 138111 | WASHER/POLISHED | 1 |
| 9 | 425-34902 | SPRING WASHER 12 | 4 |
| 10 | 50282396 | SPRING WASHER 16 | 6 |
| 11 | 50282515 | BOLT W/WASHER M10X20 | 1 |
| 12 | 50284109 | BOLT 10.9 M12 X 4 | 4 |
| 13 | 50282552 | BOLT 10.9 16X40 | 6 |

Z27 - COMPACT EXCAVATOR

FIG. 76 - CABIN (BODY)

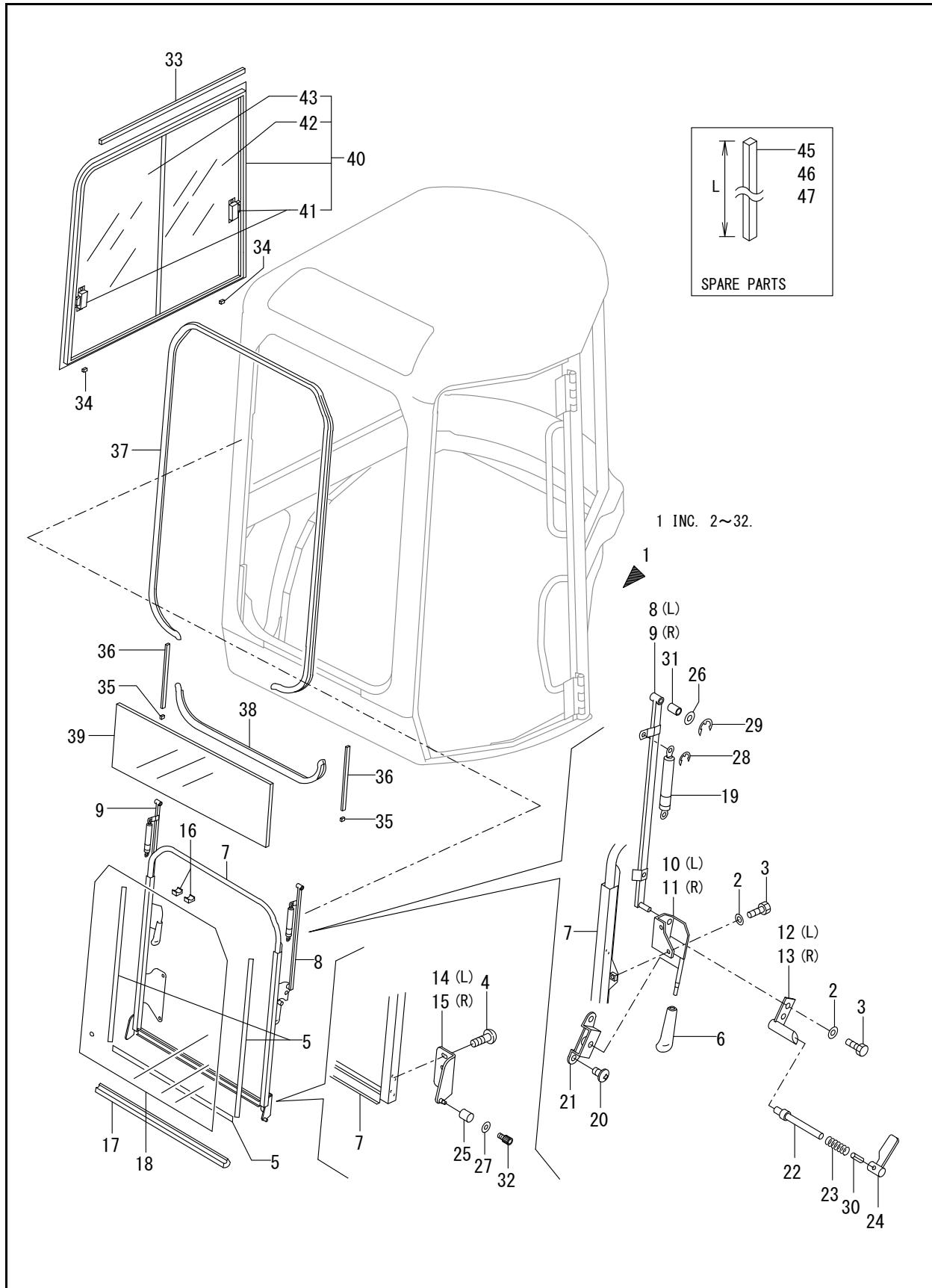


Z27 - COMPACT EXCAVATOR
FIG. 76 - CABIN (BODY)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|--|------|
| 1 | 50282848 | ASHTRAY | 1 |
| 2 | 50282971 | SPACER, CABIN | 1 |
| 3 | 50282789 | RUBBER, SEAL B | 1 |
| 4 | 50283622 | CABIN ASSY | 1 |
| 5 | 50284020 | KNOB CLUTCH(RED) | 1 |
| 6 | 50281318 | BOLT 8X 16 | 6 |
| 7 | 50282924 | CHANNEL | 2 |
| 8 | 50282925 | CAP;CHANNEL | 2 |
| 9 | 50282926 | PLATE ASSY LOW GLASS | 2 |
| 10 | 50282927 | HOLDER GLASS UP | 2 |
| 11 | 50282928 | SCREW(TORX) | 4 |
| 12 | 50282929 | SCREW(TORX) | 2 |
| 13 | 50282930 | CLIP, TREE | 4 |
| 14 | 50283004 | GLASS RUN | 1 |
| 15 | 50283012 | SEAL A | 1 |
| 16 | 50283013 | SEAL B | 1 |
| 17 | 50283014 | SEAL | 1 |
| 18 | 50283624 | FRAME ASSY, CABIN (use with labels 30A, 30B) | 1 |
| 19 | 50283015 | HINGE ASSY, DOOR | 2 |
| 20 | 50282776 | LOCK ASSY | 1 |
| 21 | 50282801 | RUBBER | 1 |
| 22 | 50283038 | COVER | 1 |
| 23 | 50283039 | LEVER | 1 |
| 24 | 50283043 | SEAL | 1 |
| 25 | 50282377 | WASHER 10 | 1 |
| 26 | 50282378 | WASHER 12 | 2 |
| 27 | 50284052 | CIRCLIP E-10 | 1 |
| 28 | 50284092 | BUSHING 12X20 | 1 |
| 29 | 425-35206 | NUT M8 W/WASHER | 4 |
| 30 | 50282597 | NUT 10 | 1 |
| 30A | 50281031 | LABEL, ROPS US (see Page 6) | 1 |
| 30B | 50281032 | LABEL, SEAT BELT US (see Page 6) | 1 |
| 31 | 50282889 | CLIP | 2 |
| 32 | 50284061 | SCREW 4X10 | 3 |

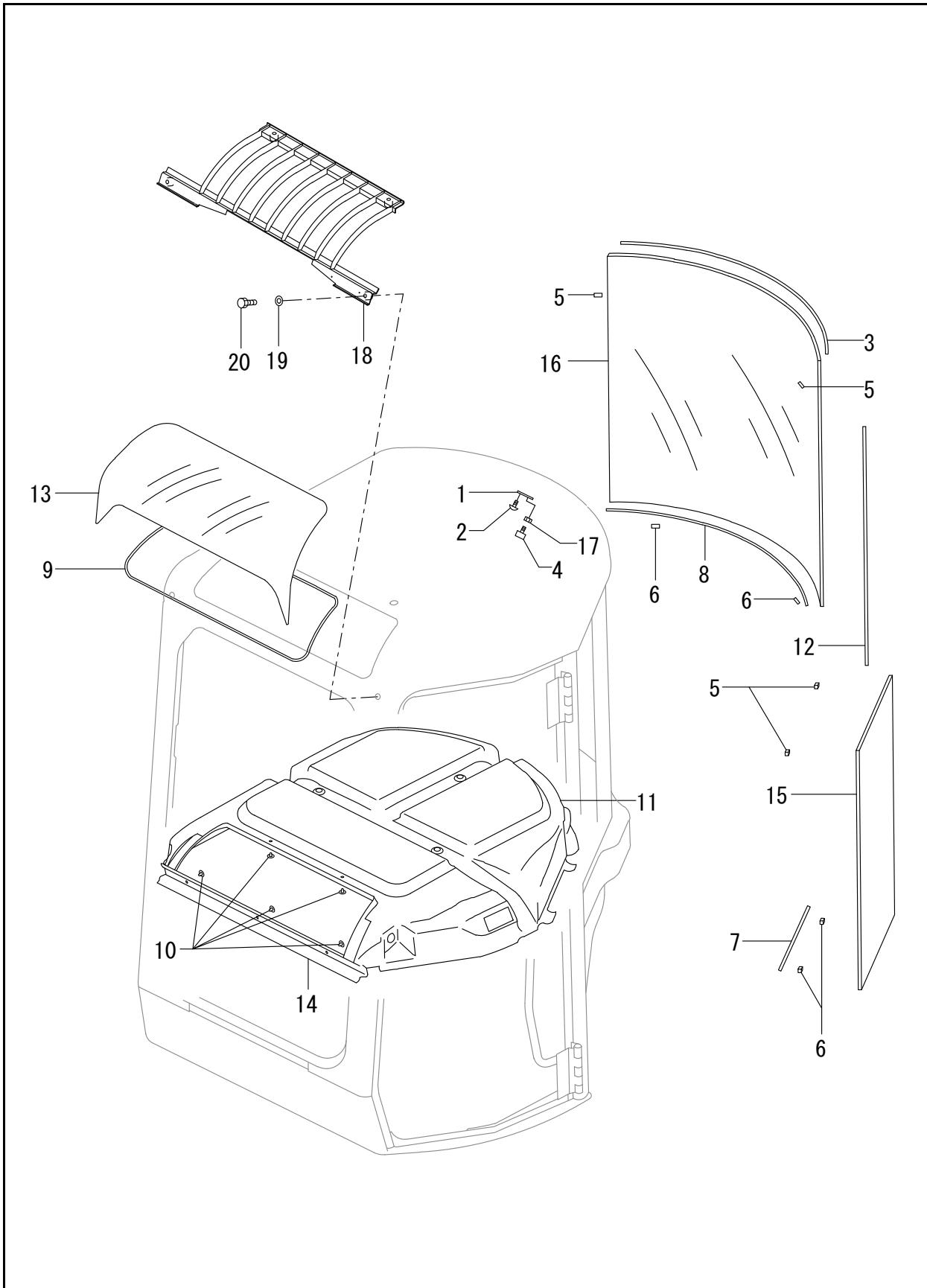
Z27 - COMPACT EXCAVATOR
FIG. 77 - CABIN (GLASS)



Z27 - COMPACT EXCAVATOR
FIG. 77 - CABIN (GLASS)

| Ref. No. | Part No. | Description | Qty. | Ref. No. | Part No. | Description | Qty. |
|-------------|-----------|--------------------|------|-------------|----------|---|------|
| 1 | 50283072 | SASH,FRONT UPPER | 1 | 34 | 50282932 | SPACER | 2 |
| 2 | 50282973 | HD WASHER | 8 | 35 | 50282933 | STOPPER RUBBER | 2 |
| 3 | 50282974 | BOLT 8X16 | 8 | 36 | 50283003 | GLASS RUN 270 | 2 |
| 4 | 50282976 | SCREW TORX | 4 | 37 | 50283006 | RUBBER | 1 |
| 5 | 50282979 | SEAL | 3 | 38 | 50283008 | RUBBER | 1 |
| 6 | 50282923 | KNOB | 2 | 39 | 50283010 | GLASS LOW(F/W | 1 |
| 7 | 50282993 | FRAME ASSY, FRONT | 1 | 40 | 50283027 | SASH ASSY (W/GLASS) | 1 |
| 8 | 50282994 | LINK | 1 | 41 | 50282934 | LOCK ASSY, SASH | 2 |
| 9 | 50282995 | LINK | 1 | 42 | 50283028 | SASH GLASS, REAR (use with labels 44A, 44B, 44C) | 1 |
| 10 | 50282996 | HANDLE L | 1 | 43 | 50283029 | SASH GLASS, FRONT | 1 |
| 11 | 50282997 | HANDLE R | 1 | 44A | 50281020 | LABEL,SLOPE US (see Page 6) | 1 |
| 12 | 50282998 | BRACKET | 1 | 44B | 50281025 | LABEL, NEUTRAL US (see Page 6) | 1 |
| 13 | 50282999 | BRACKET | 1 | 44C | 50281037 | LABEL, 2-WAY US (see Page 6) | 1 |
| 14 | 50283001 | ROLLER SHAFT L | 1 | 45 | 50283246 | DAM SEAL 2000MM | 1 |
| 15 | 50283002 | ROLLER SHAFT R | 1 | 46 | 50283247 | DAM SEAL 3000MM | 1 |
| 16 | 50283005 | RUBBER | 2 | 47 | 50283245 | DAM SEAL 1000MM | 1 |
| 17 | 50283007 | RUBBER | 1 | | | | |
| 18 | 50283009 | GLASS UP(F/W | 1 | | | | |
| 19 | 50283011 | SPRING | 2 | | | | |
| 20 | 50283218 | SCREW-TORX | 4 | | | | |
| 21 | 50283219 | HOLDER ASSY,F/W | 2 | | | | |
| 22 | 50283220 | LATCH PIN | 2 | | | | |
| 23 | 50283221 | SPRING | 2 | | | | |
| 24 | 50283222 | LEVER ASSY,F/W | 2 | | | | |
| 25 | 50282902 | ROLLER | 2 | | | | |
| 26 | 50282378 | WASHER 12 | 4 | | | | |
| 27 | 50282379 | WASHER 6, POLISHED | 2 | | | | |
| 28 | 425-34970 | CIRCLIP E-6 | 4 | | | | |
| 29 | 50284051 | CIRCLIP E- 8 | 4 | | | | |
| 30 | 50284054 | SPRING PIN 3X12 | 2 | | | | |
| 31 | 50284092 | BUSHING 12X20 | 4 | | | | |
| 32 | 50284132 | BOLT, M6 X 10 | 2 | | | | |
| 33 | 50282977 | SEAL | 1 | | | | |

Z27 - COMPACT EXCAVATOR
FIG. 78 - CABIN (ACCESSORY)

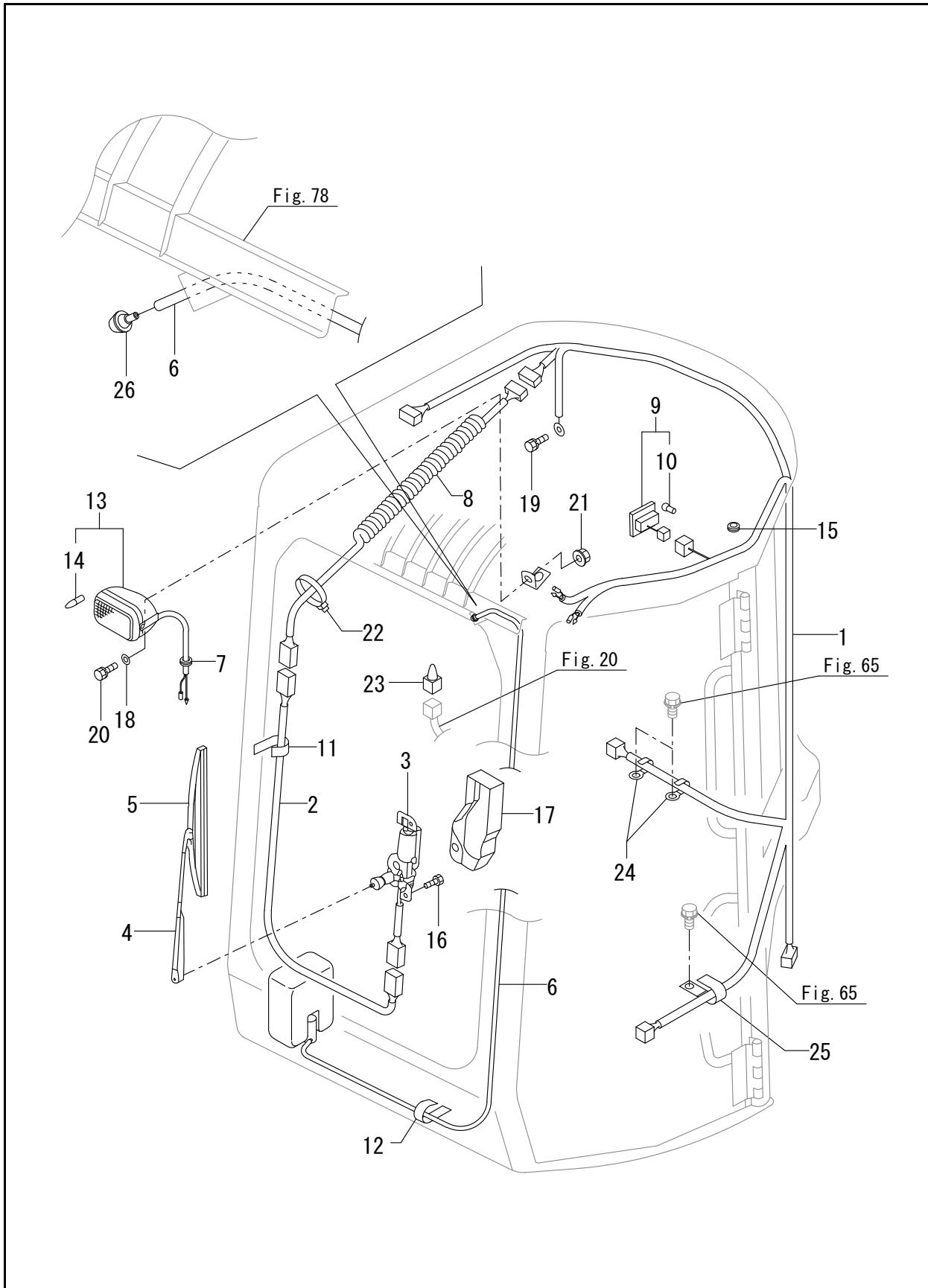


Z27 - COMPACT EXCAVATOR
FIG. 78 - CABIN (ACCESSORY)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|------------------------------------|------|
| 1 | 50282975 | PLATE | 1 |
| 2 | 50282976 | SCREW TORX | 1 |
| 3 | 50282978 | MOLD | 1 |
| 4 | 50282980 | RUBBER | 1 |
| 5 | 50282982 | SPACER | 4 |
| 6 | 50282983 | SPACER | 4 |
| 7 | 50282984 | SEAL | 1 |
| 8 | 50282985 | SEAL | 1 |
| 9 | 50282986 | SEAL | 1 |
| 10 | 50282931 | FASTERNER | 15 |
| 11 | 50283016 | INNER ROOF | 1 |
| 12 | 50283020 | SEAL | 1 |
| 13 | 50283023 | SUN ROOF | 1 |
| 14 | 50283024 | INNER FRONT | 1 |
| 15 | 50283025 | GLASS L (use with labels 21A, 21B) | 1 |
| 16 | 50283026 | GLASS REAR (use with label 22A) | 1 |
| 17 | 50282597 | NUT 10 | 1 |
| 18 | 50283235 | GUARD, FOPS | 1 |
| 19 | 138111 | WASHER/POLISHED | 4 |
| 20 | 50284107 | BOLT M10 X 35 | 4 |
| 21A | 50281036 | LABEL, WINDOW US (see Page 6) | 1 |
| 21B | 50281174 | LABEL, PIN US (see Page 6) | 1 |
| 22A | 50285051 | LABEL,LIFT Q US (see Page 6) | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 79 - CABIN (ELECTRIC PART)

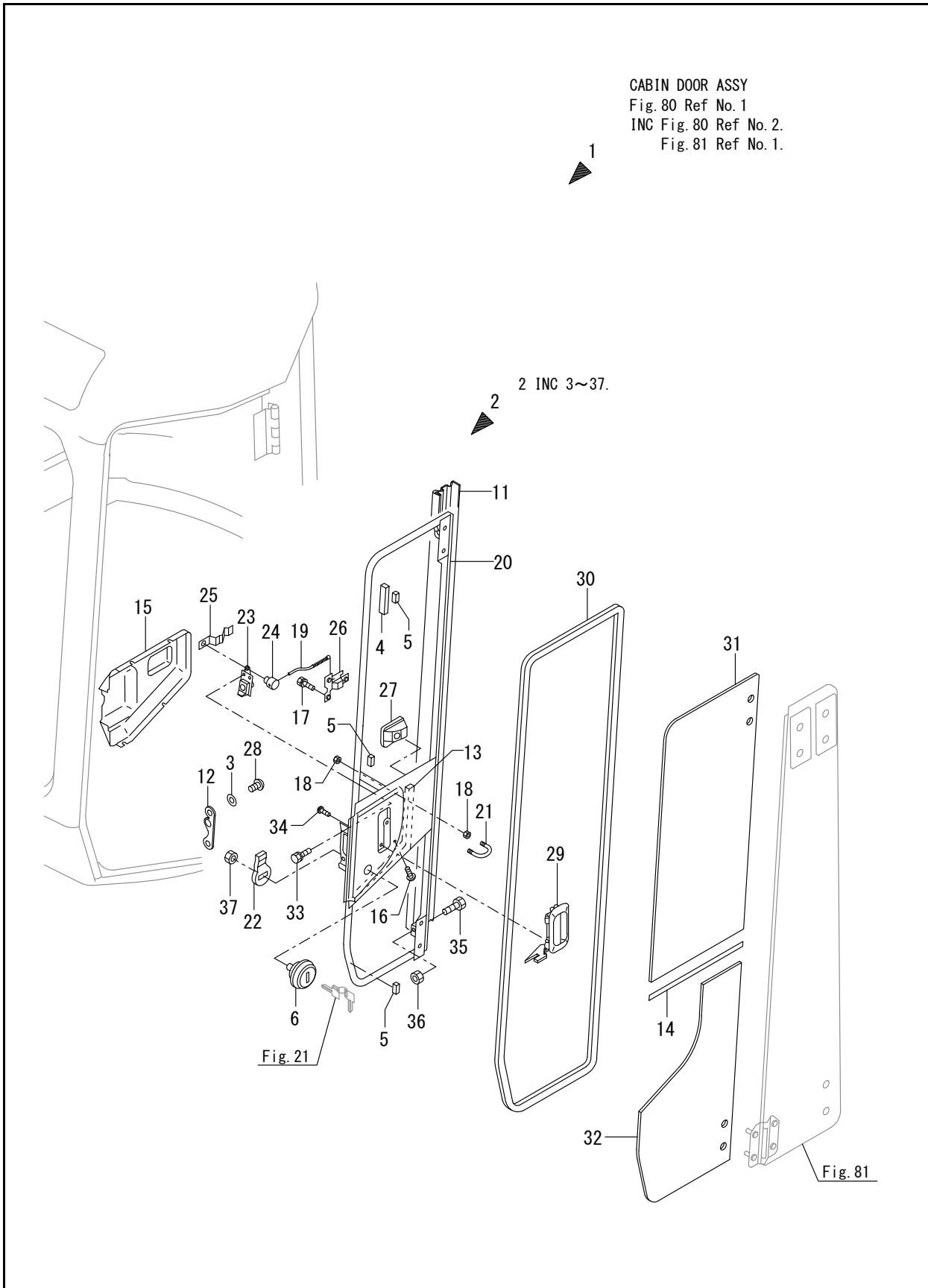


Z27 - COMPACT EXCAVATOR
FIG. 79 - CABIN (ELECTRIC PART)

Ref.

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

Z27 - COMPACT EXCAVATOR
FIG. 80 - CABIN DOOR (FRONT)

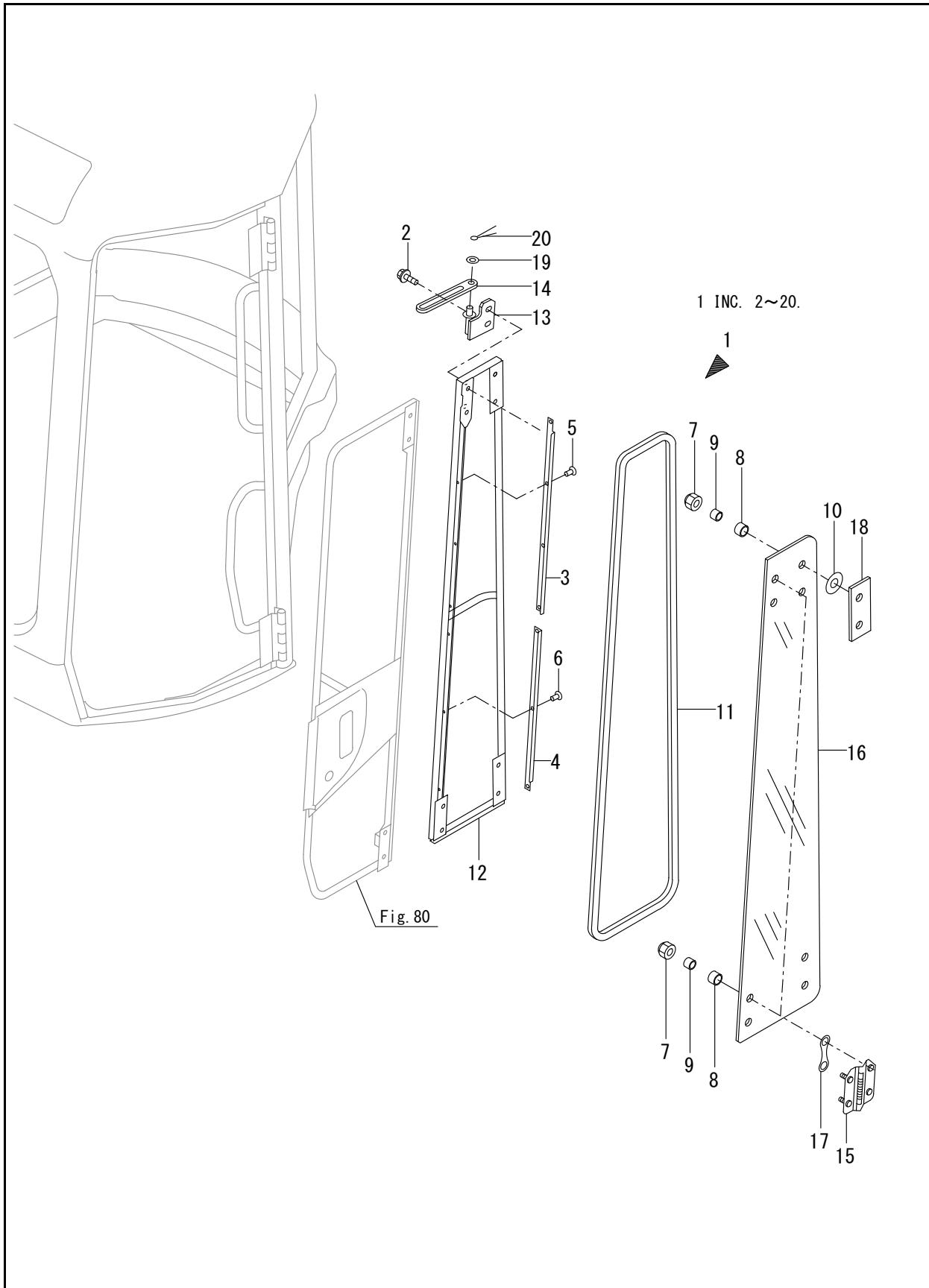


Z27 - COMPACT EXCAVATOR
FIG. 80 - CABIN DOOR (FRONT)

Ref.

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

Z27 - COMPACT EXCAVATOR
FIG. 81 - CABIN DOOR (REAR)

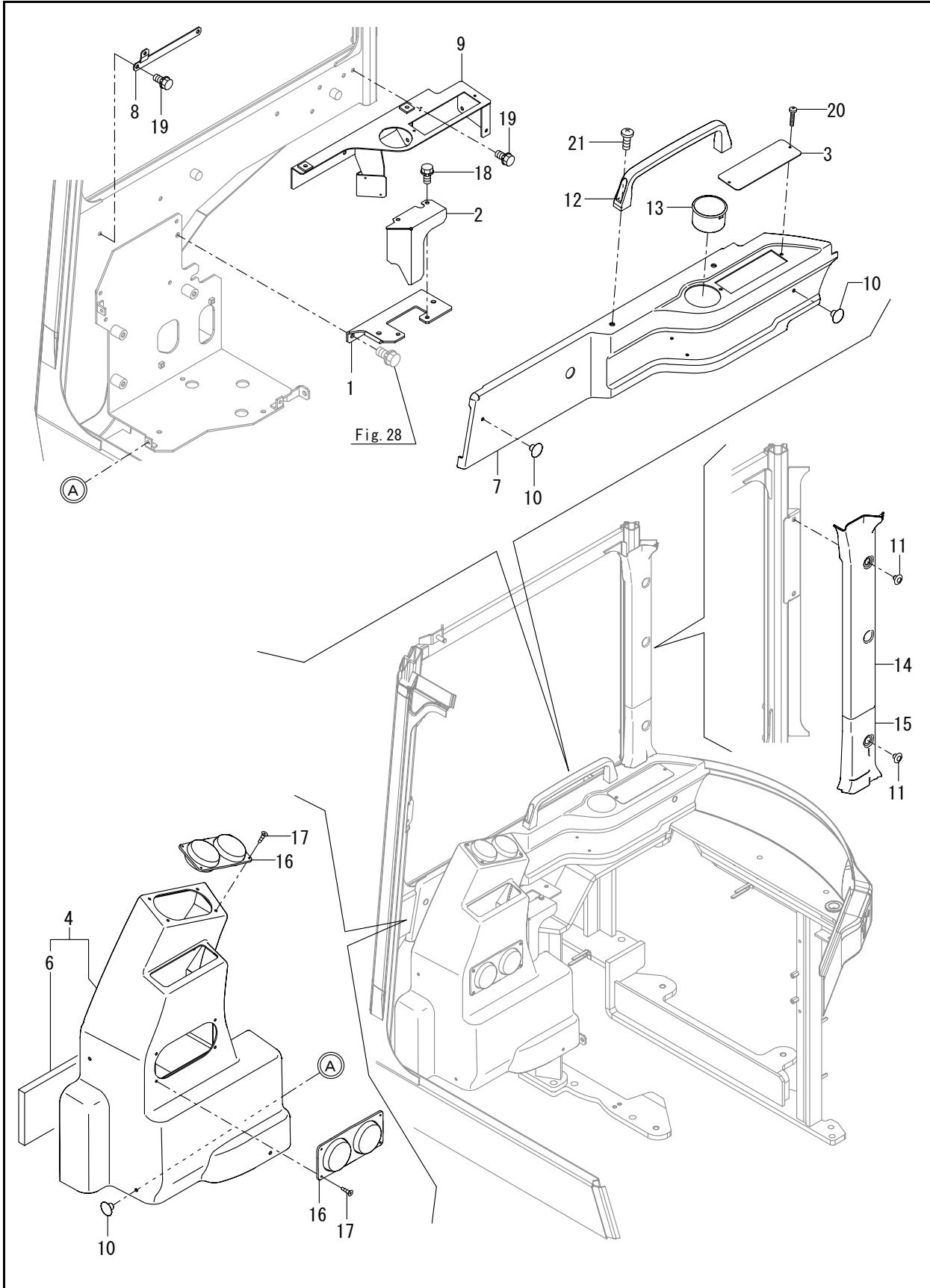


Z27 - COMPACT EXCAVATOR
FIG. 81 - CABIN DOOR (REAR)

Ref.

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

Z27 - COMPACT EXCAVATOR
FIG. 82 - CABIN (COVER)



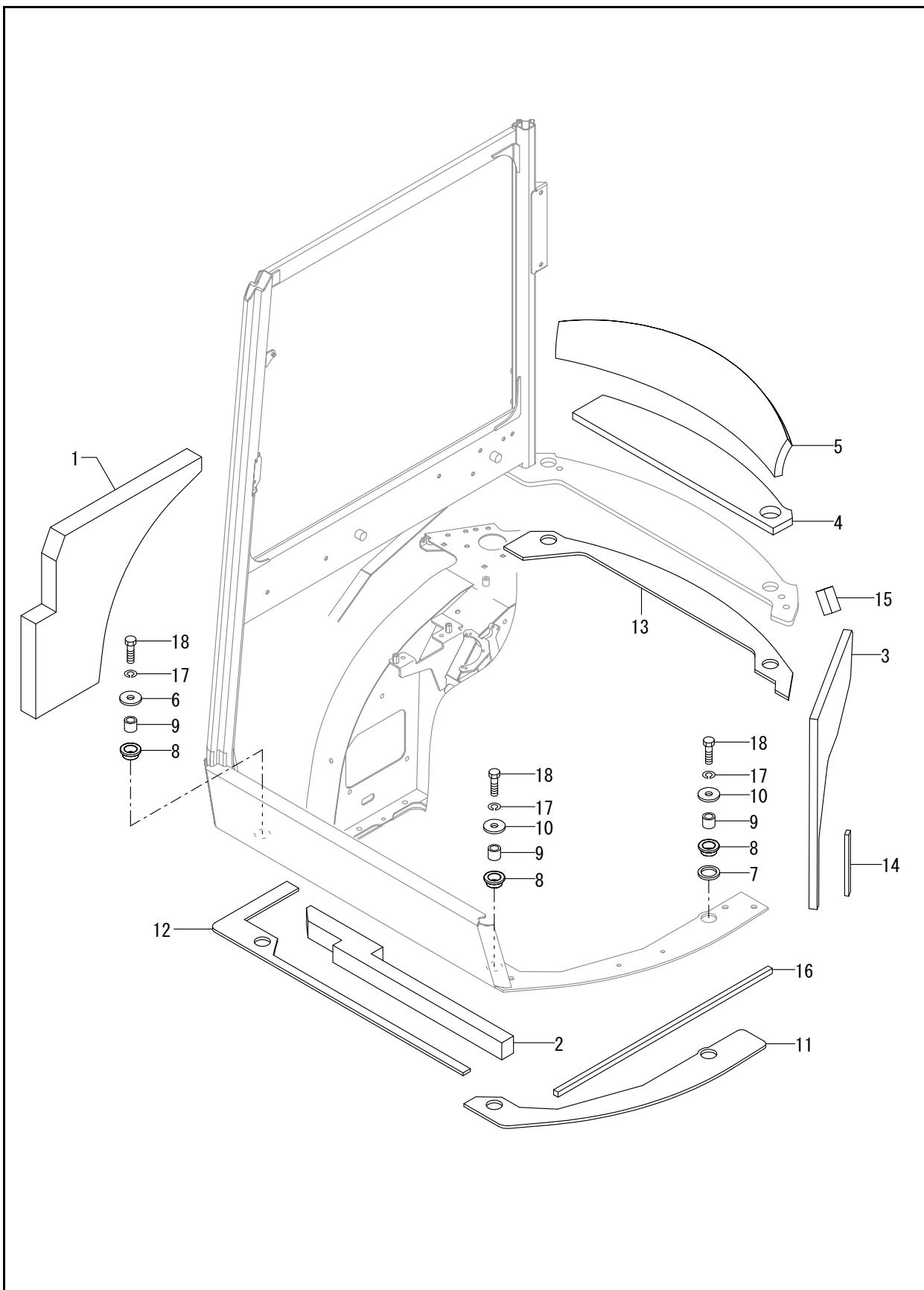
Z27 - COMPACT EXCAVATOR
FIG. 82 - CABIN (COVER)

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 83 - CABIN (FITTING)



Z27 - COMPACT EXCAVATOR
FIG. 83 - CABIN (FITTING)

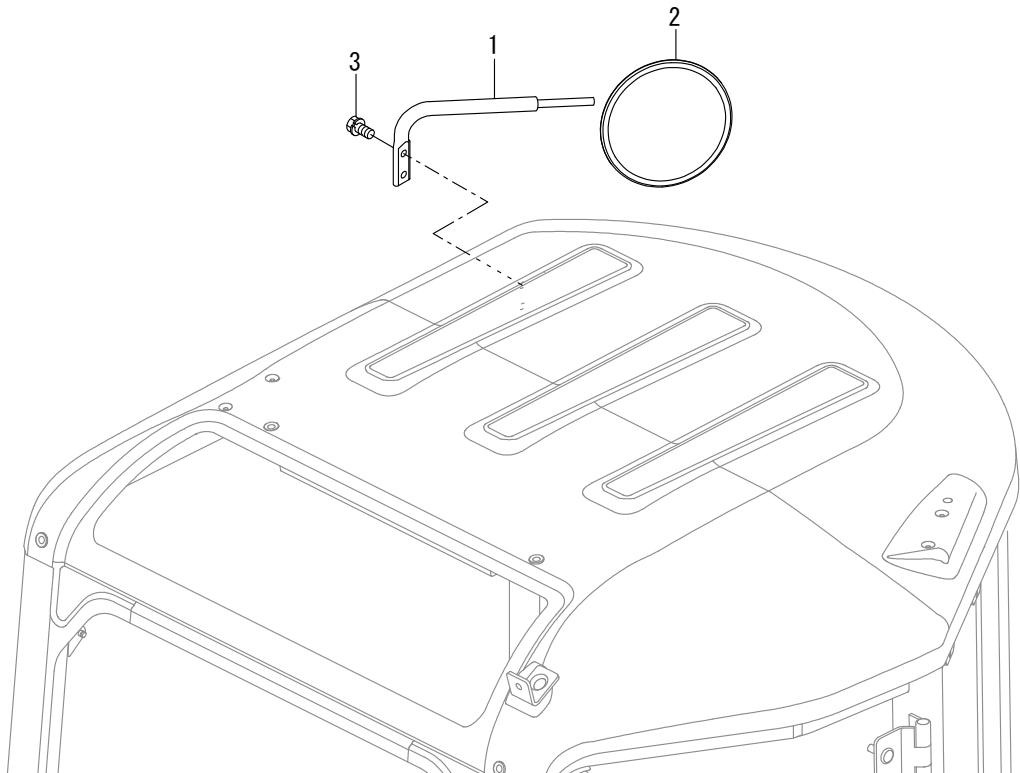
Ref.

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

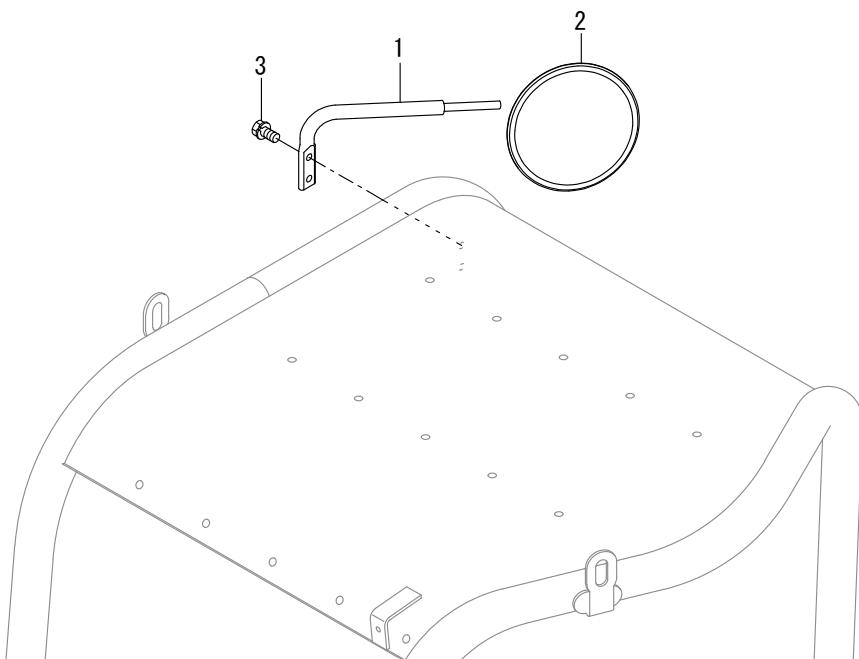
Z27 - COMPACT EXCAVATOR

FIG. 84 - REARVIEW MIRROR

CABIN SPEC.



CANOPY SPEC.



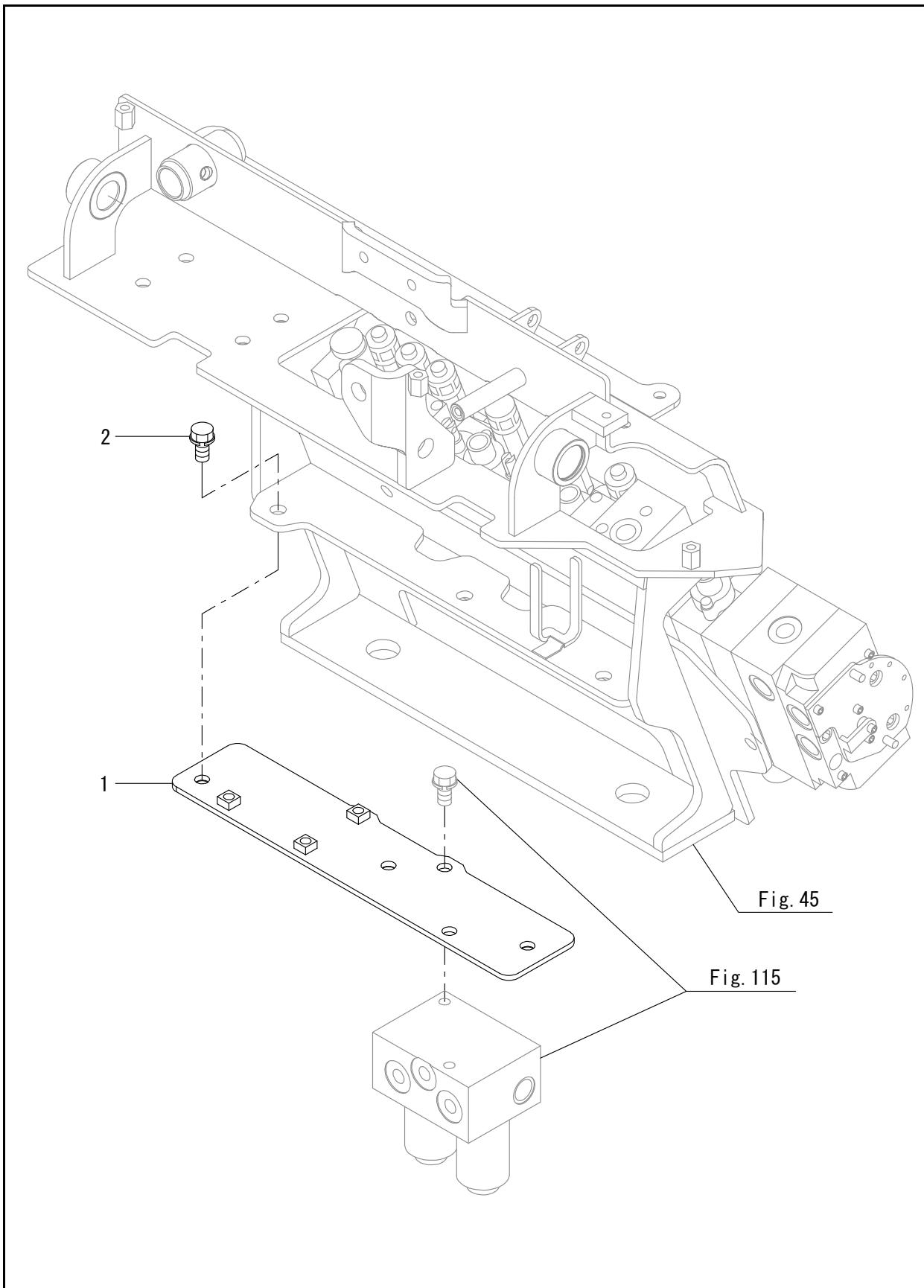
Z27 - COMPACT EXCAVATOR
FIG. 84 - REARVIEW MIRROR

Ref.

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

Z27 - COMPACT EXCAVATOR

FIG. 85 - SOLENOID BRACKET (P.T.O. SPEC.)



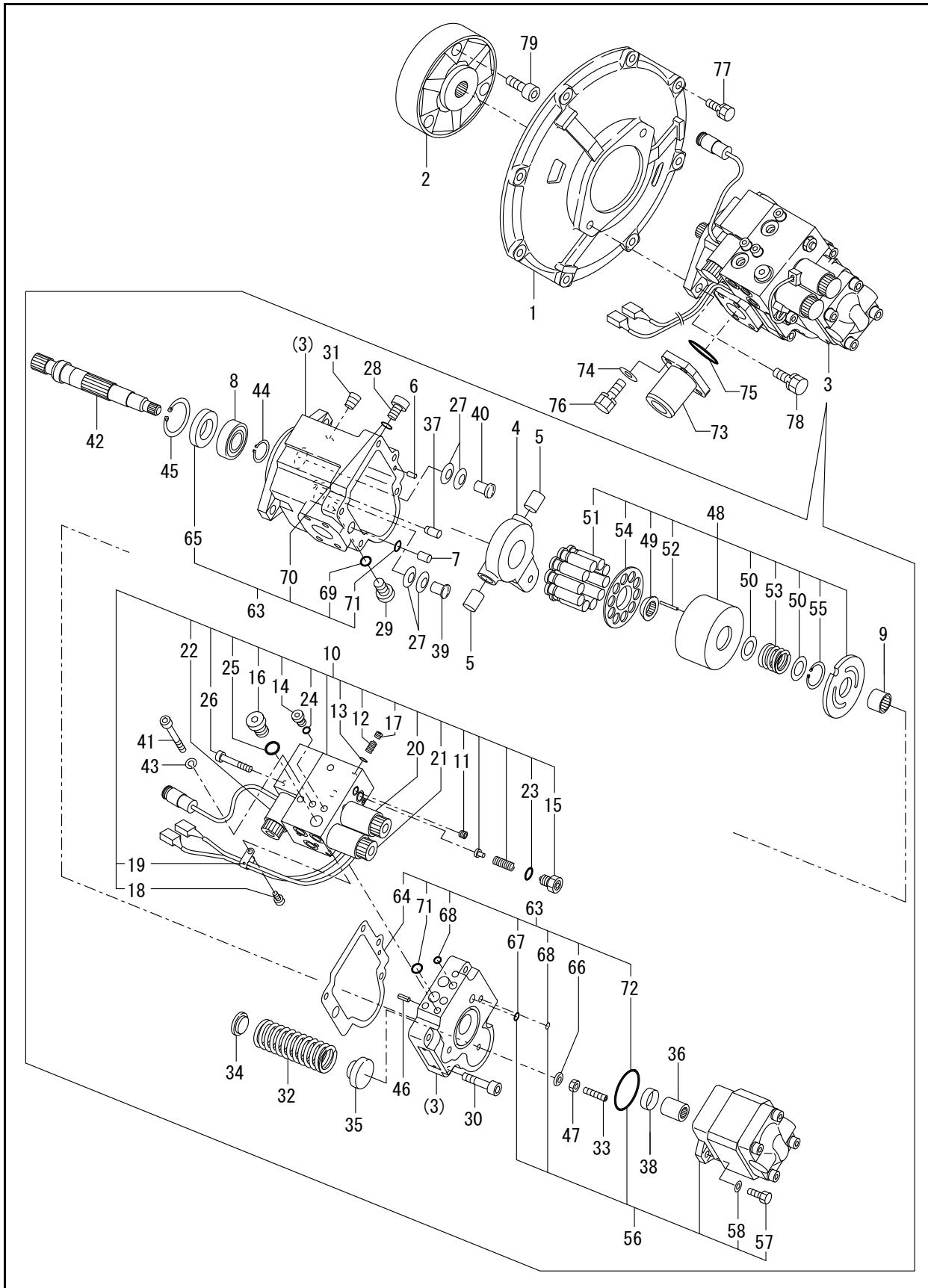
Z27 - COMPACT EXCAVATOR
FIG. 85 - SOLENOID BRACKET (P.T.O. SPEC.)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50283639 | BRACKET ASSY | 1 |
| 2 | 50282516 | BOLT W/WASHER M10X25 | 3 |

Z27 - COMPACT EXCAVATOR

FIG. 86 - HYD. OIL PUMP & JOINT (QUICK COUPLER SPEC.)

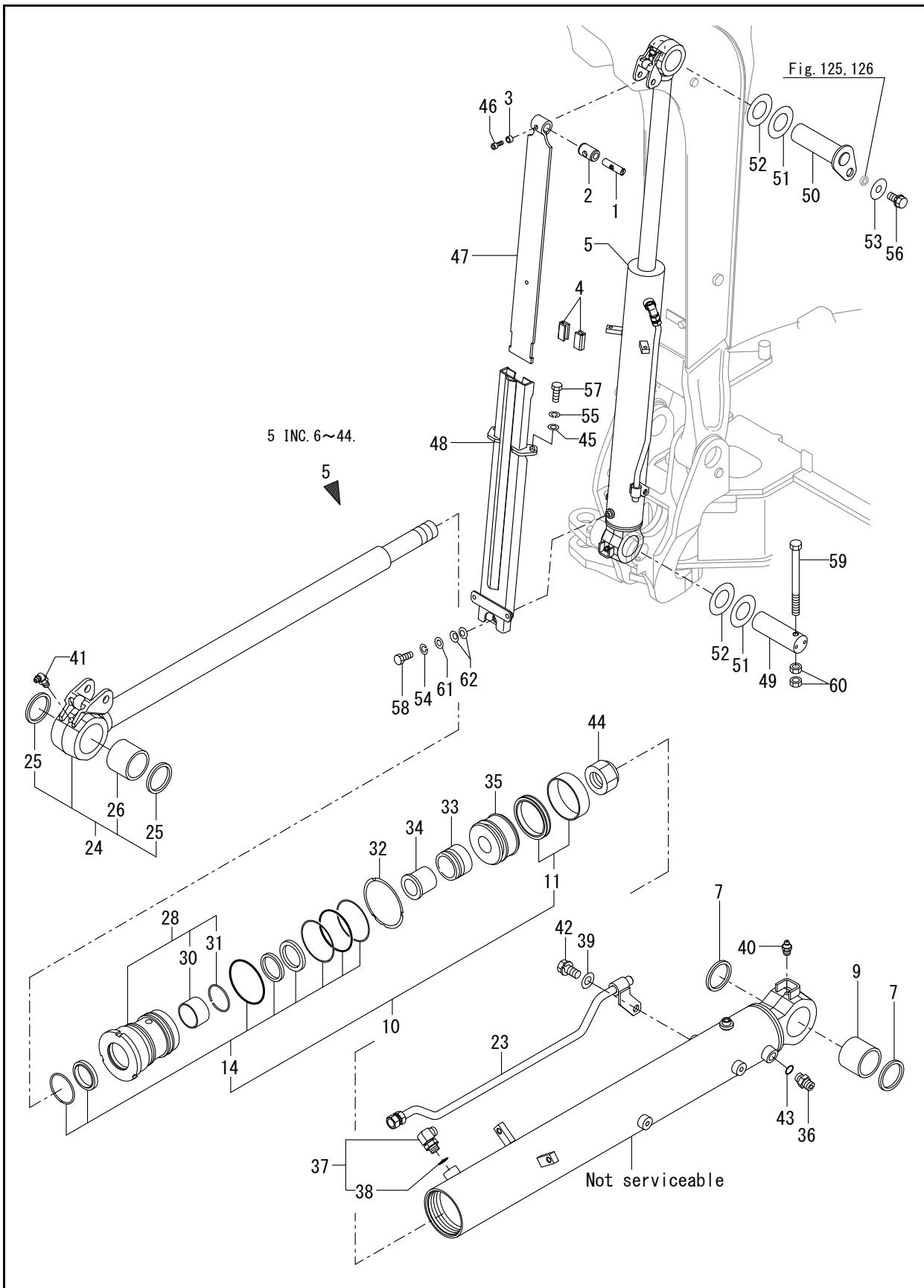


Z27 - COMPACT EXCAVATOR
FIG. 86 - HYD. OIL PUMP & JOINT (QUICK COUPLER SPEC.)

| Ref. No. | Part No. | Description | Qty. | Ref. No. | Part No. | Description | Qty. |
|-------------|----------|-------------------|------|-------------|----------|----------------------|------|
| 1 | 50282815 | COVER, FLYWHEEL | 1 | 48 | 50284999 | BARREL KIT, CYLINDER | 1 |
| 2 | 50282802 | COUPLING | 1 | 49 | 50284933 | HOLDER, BARREL | 1 |
| 3 | 50285041 | PUMP Q ASSY | 1 | 50 | 50284938 | RETAINER | 2 |
| 4 | 50284934 | PLATE, SWASH | 1 | 51 | 50285000 | PISTON ASSY, PUMP | 1 |
| 5 | 50284935 | PIN | 2 | 52 | 50285001 | NEEDLE | 3 |
| 6 | 50284937 | PIN | 1 | 53 | 50285002 | SPRING | 1 |
| 7 | 50284939 | PIN | 1 | 54 | 50285015 | HOLDER, SHOE | 1 |
| 8 | 50284940 | BEARING, BALL | 1 | 55 | 50282406 | CIRCLIP 35 | 1 |
| 9 | 50284941 | BEARING, NEEDLE | 1 | 56 | 50285010 | GEA PUMP ASSY | 1 |
| 10 | 50285042 | BLOCK ASSY, VALVE | 1 | 57 | 50284963 | BOLT | 2 |
| 11 | 50284946 | PLUG | 8 | 58 | 50284964 | WASHER | 2 |
| 12 | 50284952 | SPRING | 1 | 63 | 50284958 | SEAL SET, PUMP | 1 |
| 13 | 50284953 | FILTER | 1 | 64 | 50284936 | GASKET | 1 |
| 14 | 50285012 | PLUG | 1 | 65 | 50284942 | SEAL, OIL | 1 |
| 15 | 50284954 | ADJUSTER KIT | 1 | 66 | 50284948 | WASHER | 1 |
| 16 | 50285013 | PLUG | 1 | 67 | 50282467 | O-RING 1B P-7.0 | 1 |
| 17 | 50284955 | PLUG | 2 | 68 | 50282468 | O-RING 1B P-8.0 | 2 |
| 18 | 50284956 | BOLT | 1 | 69 | 50282470 | O-RING 1B P-11.0 | 1 |
| 19 | 50284957 | PLATE, LOCK | 1 | 70 | 50282470 | O-RING 1B P-11.0 | 1 |
| 20 | 50285016 | VALVE ASSY | 1 | 71 | 50284851 | O-RING 1B P-12.0 | 3 |
| 21 | 50285017 | VALVE ASSY | 1 | 72 | 50282489 | O-RING 1B G-55.0 | 1 |
| 22 | 50285019 | VALVE,SOLENOID | 1 | 73 | 50281006 | FLANGE | 1 |
| 23 | 138125 | O-RING | 1 | 74 | 50282377 | WASHER 10 | 4 |
| 24 | 50282468 | O-RING 1B P-8.0 | 1 | 75 | 50284081 | O-RING 1A G-40.0 | 1 |
| 25 | 50282471 | O-RING 1B P-14.0 | 1 | 76 | 50282517 | BOLT M10X 30 | 4 |
| 26 | 50284131 | BOLT M5 X 45 | 4 | 77 | 50282517 | BOLT M10X 30 | 8 |
| 27 | 50284943 | SPRING | 4 | 78 | 50284102 | BOLT M12 X 35 | 2 |
| 28 | 50284944 | PLUG | 1 | 79 | 50284137 | BOLT M12 X 40 | 3 |
| 29 | 50284944 | PLUG | 1 | | | | |
| 30 | 50284945 | BOLT | 5 | | | | |
| 31 | 50284946 | PLUG | 5 | | | | |
| 32 | 50285003 | SPRING | 1 | | | | |
| 33 | 50284947 | SCREW | 1 | | | | |
| 34 | 50285004 | HOLDER, SPRING | 1 | | | | |
| 35 | 50285005 | GUIDE, SPRING | 1 | | | | |
| 36 | 50284949 | COUPLING | 1 | | | | |
| 37 | 50285006 | ROD | 1 | | | | |
| 38 | 50284950 | COLLAR | 1 | | | | |
| 39 | 50285007 | PIN, STOPPER | 1 | | | | |
| 40 | 50285008 | PIN, STOPPER | 1 | | | | |
| 41 | 50284951 | BOLT | 3 | | | | |
| 42 | 50285014 | SHAFT | 1 | | | | |
| 43 | 50285156 | WASHER 8 | 3 | | | | |
| 44 | 50282399 | CIRCLIP 25S | 1 | | | | |
| 45 | 50285158 | RING | 1 | | | | |
| 46 | 50285159 | PIN, SPRING | 1 | | | | |
| 47 | 50285164 | NUT | 1 | | | | |

Z27 - COMPACT EXCAVATOR

FIG. 87 - BOOM CYLINDER

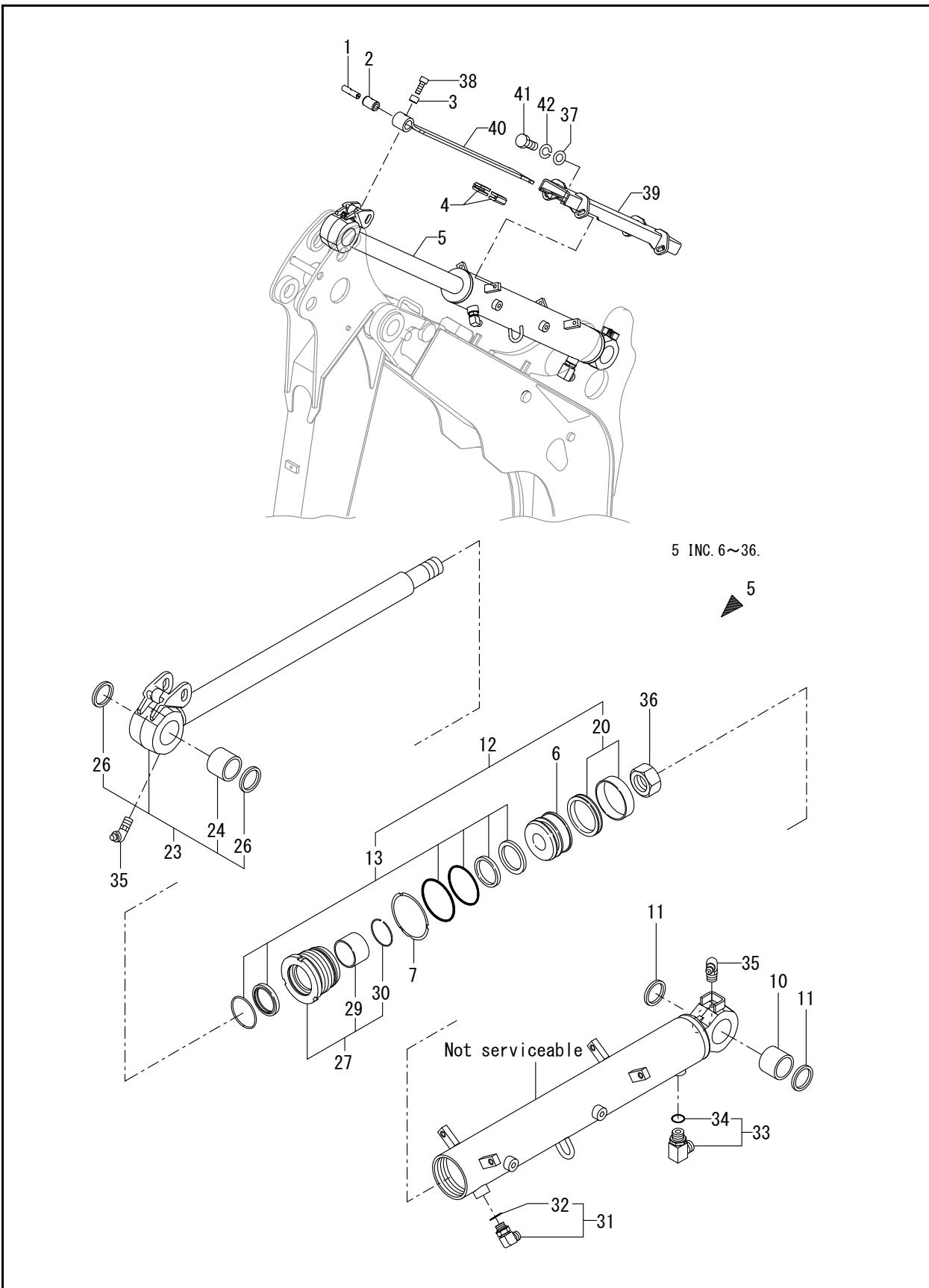


Z27 - COMPACT EXCAVATOR
FIG. 87 - BOOM CYLINDER

| Ref. | No. | Part No. | Description | Qty. | Ref. | No. | Part No. | Description | Qty. |
|------|-----|----------|----------------------|------|------|-----|-----------|----------------------|------|
| | 1 | 50283319 | SHAFT,14X54 | 1 | | 57 | 50284106 | BOLT M10 X 25 | 2 |
| | 2 | 50283320 | GROMMET | 1 | | 58 | 50284117 | BOLT M10 X 16 PLATED | 1 |
| | 3 | 50283344 | SPACER | 1 | | 59 | 50282565 | BOLT M12X140 PLATED | 1 |
| | 4 | 50283321 | SLIDE GUIDE | 2 | | 60 | 210-32084 | NUT 12 | 2 |
| | 5 | 50285058 | BOOM CYLINDER | 1 | | 61 | 50282617 | WASHER, BRAKE ARM | 1 |
| | 7 | 50281061 | SEAL 50X60X4,DUST | 2 | | 62 | 50282620 | SPRING 16 | 2 |
| | 9 | 50284351 | BUSHING 50-60 | 1 | | | | | |
| | 10 | 50285061 | CYL SEAL KIT,80X45 | 1 | | | | | |
| | 11 | 50285037 | PISTON SEAL SET,BOOM | 1 | | | | | |
| | 14 | 50285060 | HEAD SEAL SET,80X45 | 1 | | | | | |
| | 23 | 50285062 | TUBE ASSY, BOOM | 1 | | | | | |
| | 24 | 50285063 | ROD ASSY,BOOM | 1 | | | | | |
| | 25 | 50281061 | SEAL 50X60X4,DUST | 2 | | | | | |
| | 26 | 50284351 | BUSHING 50-60 | 1 | | | | | |
| | 28 | 50285064 | HEAD ASSY 80X45 | 1 | | | | | |
| | 30 | 50284094 | BUSHING | 1 | | | | | |
| | 31 | 50284876 | RING 55, SPRING | 1 | | | | | |
| | 32 | 50280818 | WASHER 80 B | 1 | | | | | |
| | 33 | 50284352 | PLUNGER 56,CUSHON | 1 | | | | | |
| | 34 | 50284353 | COLLAR 33 44,CUSHON | 1 | | | | | |
| | 35 | 50284932 | PISTON | 1 | | | | | |
| | 36 | 50281350 | JOINT | 1 | | | | | |
| | 37 | 50280823 | JOINT 90-3/8 ASSY | 1 | | | | | |
| | 38 | 50282471 | O-RING 1B P-14.0 | 1 | | | | | |
| | 39 | 138111 | WASHER/POLISHED | 1 | | | | | |
| | 40 | 50282497 | NIPPLE PT1/8,GREASE | 1 | | | | | |
| | 41 | 50282498 | NIPPLE B,GREASE | 1 | | | | | |
| | 42 | 50282515 | BOLT W/WASHER M10X20 | 1 | | | | | |
| | 43 | 50282608 | O RING P 14.0 HNBR | 1 | | | | | |
| | 44 | 50284149 | U-NUT M33 | 1 | | | | | |
| | 45 | 50283985 | COLLOR | 2 | | | | | |
| | 46 | 50283655 | BOLT M16X16 | 1 | | | | | |
| | 47 | 50284439 | PLATE, SLIDE | 1 | | | | | |
| | 48 | 50284629 | GUIDE ASSY | 1 | | | | | |
| | 49 | 50284370 | PIN 50X136 | 1 | | | | | |
| | 50 | 50284770 | PIN 50X160 CMP | 1 | | | | | |
| | 51 | 50280899 | SHIM 50X90X0.5 | 2 | | | | | |
| | 52 | 50280900 | SHIM 50X90X1.2 | 2 | | | | | |
| | 53 | 50282388 | WASHER 12 | 1 | | | | | |
| | 54 | 50282393 | SPRING WASHER 10 | 1 | | | | | |
| | 55 | 50282393 | SPRING WASHER 10 | 2 | | | | | |
| | 56 | 50282516 | BOLT W/WASHER M10X25 | 1 | | | | | |

Z27 - COMPACT EXCAVATOR

FIG. 88 - ARM CYLINDER



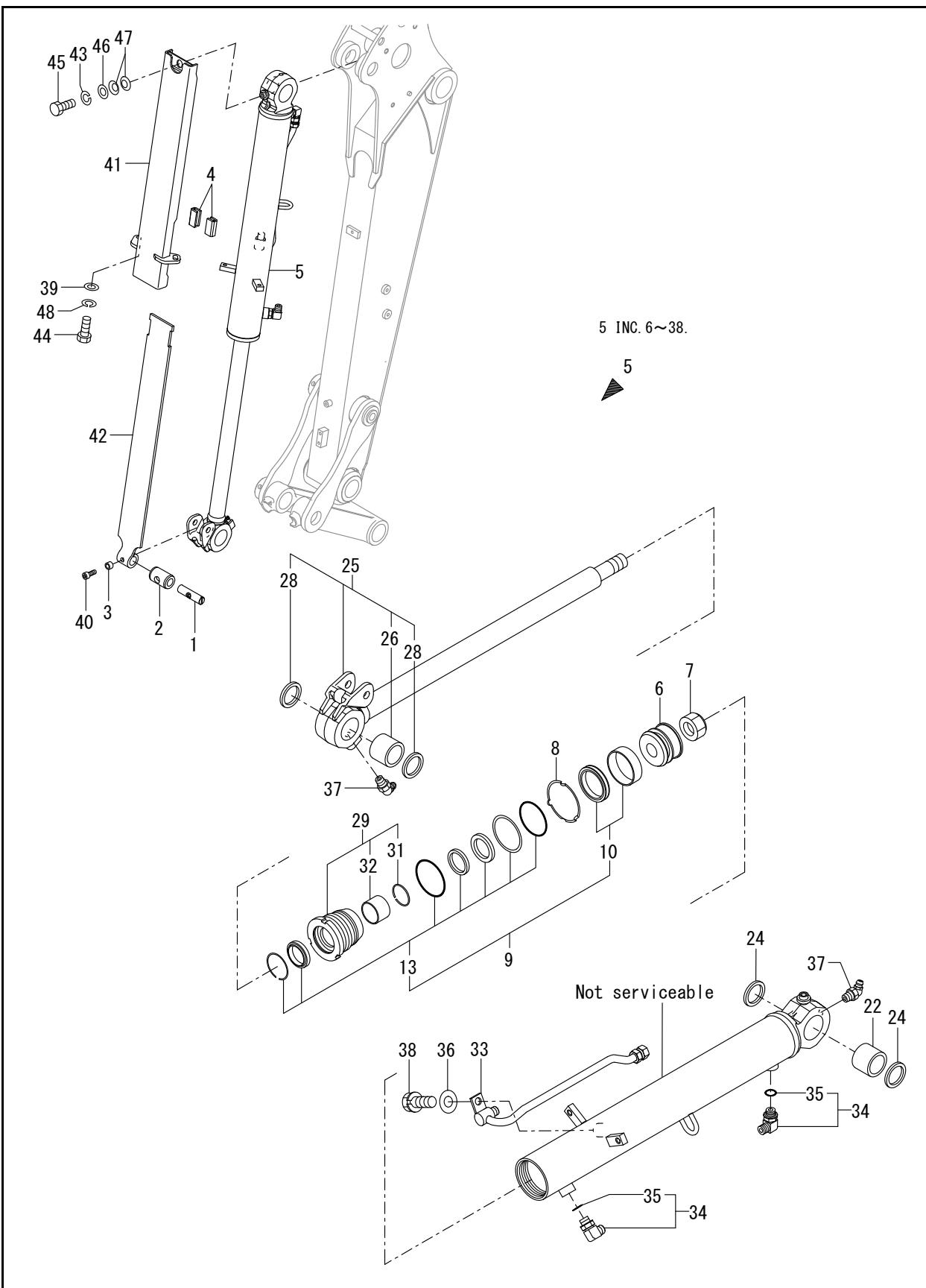
Z27 - COMPACT EXCAVATOR
FIG. 88 - ARM CYLINDER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50283319 | SHAFT,14X54 | 1 |
| 2 | 50283320 | GROMMET | 1 |
| 3 | 50283344 | SPACER | 1 |
| 4 | 50283321 | SLIDE GUIDE | 2 |
| 5 | 50285065 | ARM CYLINDER | 1 |
| 6 | 50282754 | PISTON 75 | 1 |
| 7 | 50282729 | WASHER 75 | 1 |
| 10 | 50284227 | BUSHING 40X50X40 | 1 |
| 11 | 50282912 | SEAL 40X50X4,DUST | 2 |
| 12 | 50285067 | CYL SEAL KIT,75X45 | 1 |
| 13 | 50285068 | SEAL SET 75X45,HEAD | 1 |
| 20 | 50284960 | PISTON SEAL SET | 1 |
| 23 | 50285069 | ROD ASSY,ARM | 1 |
| 24 | 50284915 | BUSHING 40 50 | 1 |
| 26 | 50282912 | SEAL 40X50X4,DUST | 2 |
| 27 | 50285070 | HEAD ASSY 75X45 | 1 |
| 29 | 50284094 | BUSHING | 1 |
| 30 | 50284876 | RING 55, SPRING | 1 |
| 31 | 50280823 | JOINT 90-3/8 ASSY | 1 |
| 32 | 50282471 | O-RING 1B P-14.0 | 1 |
| 33 | 50281345 | CONNECTOR PF1/2 | 1 |
| 34 | 50282474 | O-RING 1B P-18.0 | 1 |
| 35 | 50282499 | NIPPLE C,GREASE | 2 |
| 36 | 50284149 | U-NUT M33 | 1 |
| 37 | 50283985 | COLLOR | 4 |
| 38 | 50283655 | BOLT M16X16 | 1 |
| 39 | 50285043 | GUIDE | 1 |
| 40 | 50285044 | SLIDE PLATE | 1 |
| 41 | 50284106 | BOLT M10 X 25 | 4 |
| 42 | 50282393 | SPRING WASHER 10 | 4 |

Z27 - COMPACT EXCAVATOR

FIG. 89 - BUCKET CYLINDER



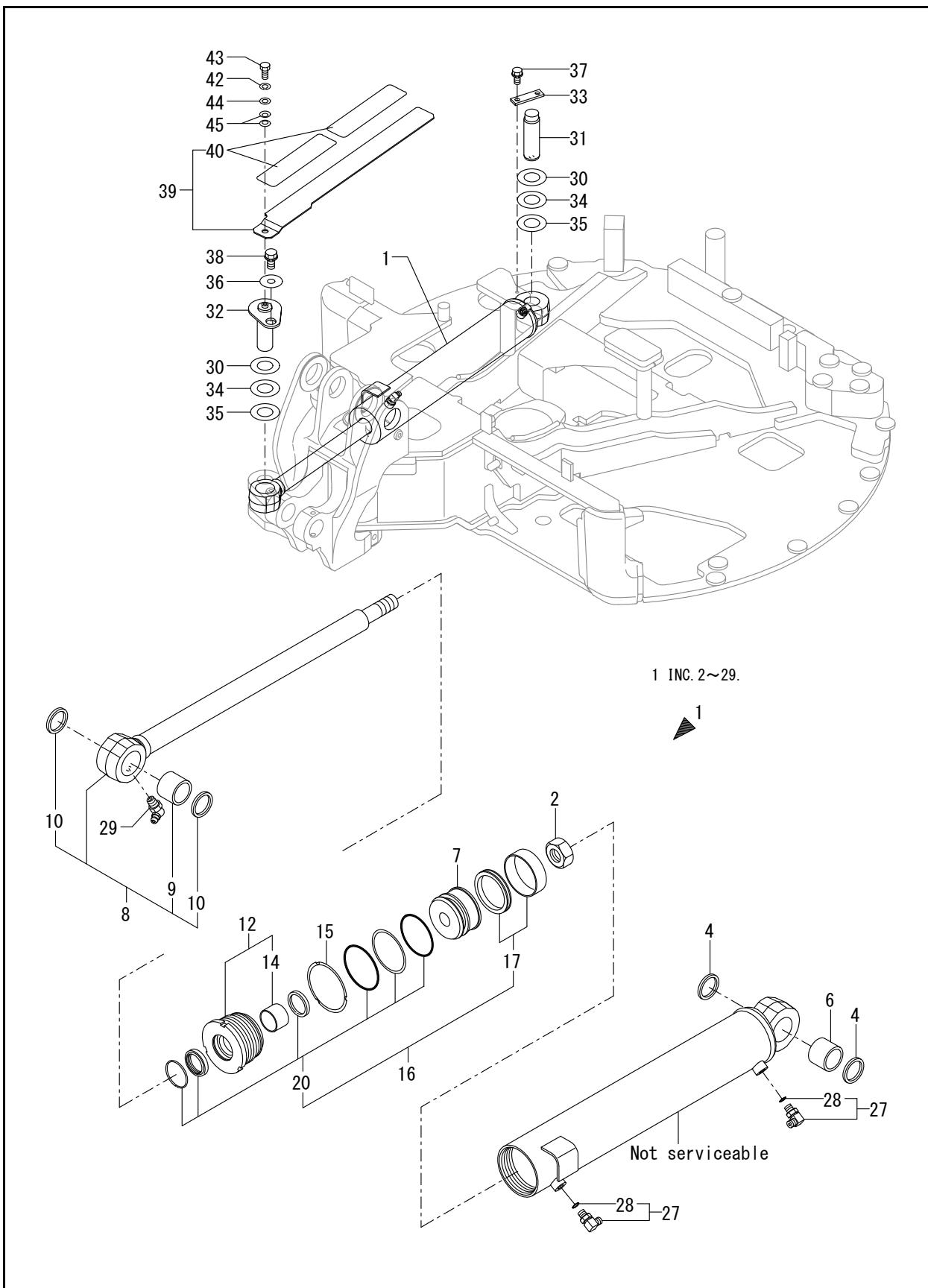
Z27 - COMPACT EXCAVATOR
FIG. 89 - BUCKET CYLINDER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50283319 | SHAFT,14X54 | 1 |
| 2 | 50283320 | GROMMET | 1 |
| 3 | 50283344 | SPACER | 1 |
| 4 | 50283321 | SLIDE GUIDE | 2 |
| 5 | 50284614 | CYLINDER ASSY,BUCKET | 1 |
| 6 | 50284317 | PISTON 70 27 | 1 |
| 7 | 50280811 | U-NUT M27 | 1 |
| 8 | 50284208 | WASHER 70, LOCK | 1 |
| 9 | 50284613 | CYL SEAL KIT,70X40 | 1 |
| 10 | 50284390 | SEAL SET | 1 |
| 13 | 50284618 | HEAD SEAL SET,70X40 | 1 |
| 22 | 50284226 | BUSHING 38X50X40 | 1 |
| 24 | 50284228 | SEAL,DUST 38X50X4 | 2 |
| 25 | 50284616 | ROD ASSY, BUCKET | 1 |
| 26 | 50284226 | BUSHING 38X50X40 | 1 |
| 28 | 50284228 | SEAL,DUST 38X50X4 | 2 |
| 29 | 50284617 | HEAD ASSY 75 X 40 | 1 |
| 31 | 50284209 | RING 50, SPRING | 1 |
| 32 | 50284855 | BUSHING 40X30 | 1 |
| 33 | 50284619 | PIPE, BUCKET | 1 |
| 34 | 50280823 | JOINT 90-3/8 ASSY | 2 |
| 35 | 50282471 | O-RING 1B P-14.0 | 2 |
| 36 | 138111 | WASHER/POLISHED | 1 |
| 37 | 50282498 | NIPPLE B,GREASE | 2 |
| 38 | 50282515 | BOLT W/WASHER M10X20 | 1 |
| 39 | 50283985 | COLLAR | 2 |
| 40 | 50283655 | BOLT M16X16 | 1 |
| 41 | 50284438 | GUIDE ASSY | 1 |
| 42 | 50284439 | PLATE, SLIDE | 1 |
| 43 | 50282393 | SPRING WASHER 10 | 1 |
| 44 | 50284106 | BOLT M10 X 25 | 2 |
| 45 | 50284117 | BOLT M10 X 16 PLATED | 1 |
| 46 | 50282617 | WASHER, BRAKE ARM | 1 |
| 47 | 50282620 | SPRING 16 | 2 |
| 48 | 50282393 | SPRING WASHER 10(| 2 |

Z27 - COMPACT EXCAVATOR

FIG. 90 - SWING CYLINDER



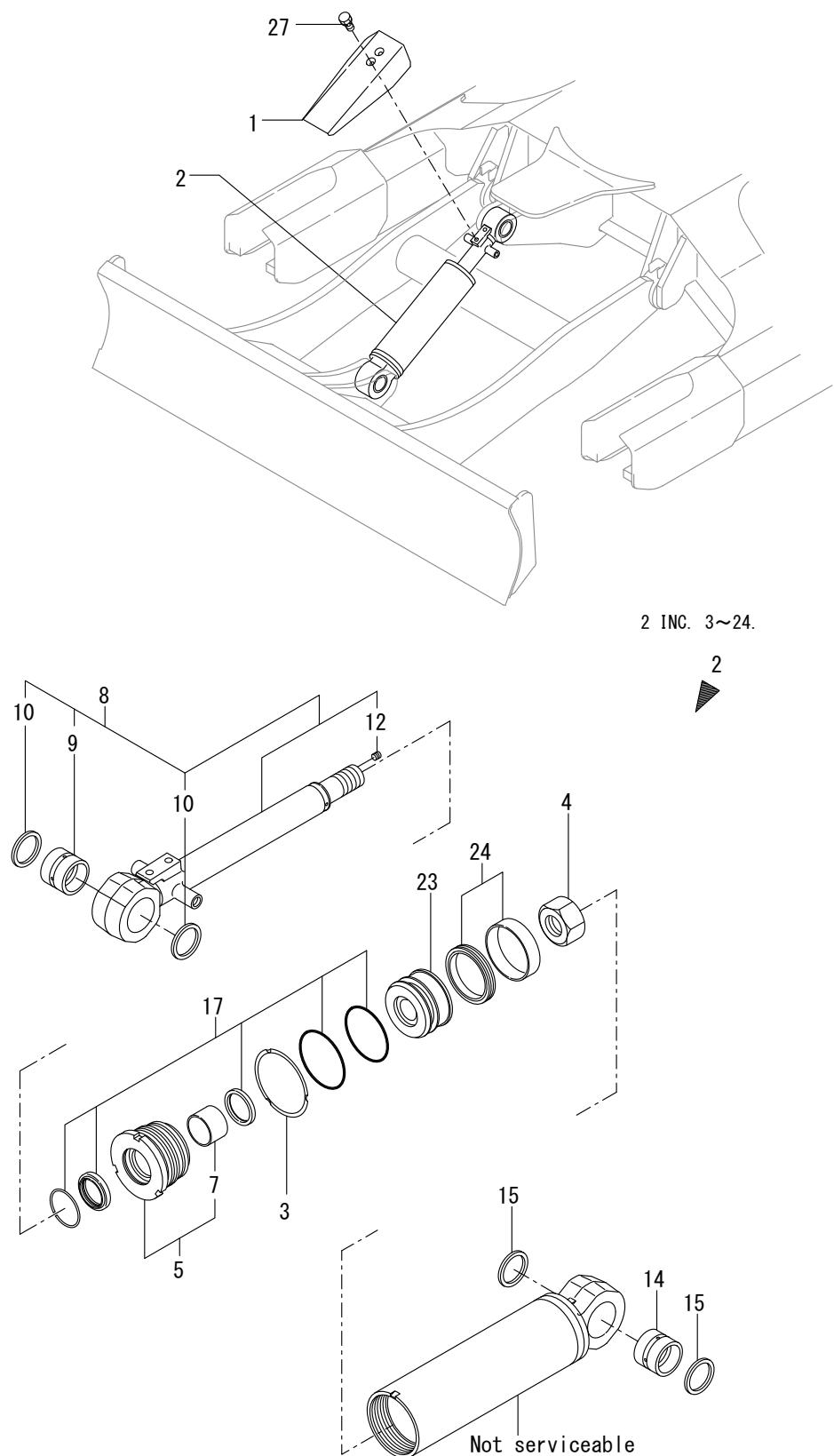
Z27 - COMPACT EXCAVATOR
FIG. 90 - SWING CYLINDER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|-------------------------------|------|
| 1 | 50284621 | CYLINDER ASSY, SWING | 1 |
| 2 | 50280811 | U-NUT M27 | 1 |
| 4 | 50282912 | SEAL 40X50X4,DUST | 2 |
| 6 | 50283048 | BUSHING 40X40,SO | 1 |
| 7 | 50284383 | PISTON 90 27 | 1 |
| 8 | 50284623 | ROD ASSY, SWING | 1 |
| 9 | 50282803 | BUSHING 40X40 | 1 |
| 10 | 50282912 | SEAL 40X50X4,DUST | 2 |
| 12 | 50284624 | HEAD ASSY 90 40 | 1 |
| 14 | 50284855 | BUSHING 40X30 | 1 |
| 15 | 50282765 | LOCK WASHER 90 | 1 |
| 16 | 50284626 | CYL SEAL KIT,90X40 | 1 |
| 17 | 50283118 | SEAL SET | 1 |
| 20 | 50284627 | HEAD SEAL SET,90X40 | 1 |
| 27 | 50280813 | CONNECTOR ASSY, 02FF | 2 |
| 28 | 50282607 | PACKING, 11.0 | 2 |
| 29 | 50282499 | NIPPLE C,GREASE | 1 |
| 30 | 50284441 | SHIM 40X75X0.8 | 2 |
| 31 | 50284769 | PIN 40X123 | 1 |
| 32 | 50283071 | PIN ASSY, 40X117 | 1 |
| 33 | 50283905 | PLATE | 1 |
| 34 | 50282812 | SHIM 40X75X0.5 | 2 |
| 35 | 50282813 | SHIM 40X75X1.2 | 2 |
| 36 | 50282388 | WASHER 12 | 1 |
| 37 | 50282516 | BOLT W/WASHER M10X25 | 2 |
| 38 | 50282525 | BOLT W/WASHER M12X30 | 1 |
| 39 | 50284625 | COVER, SWING (canopy) | 1 |
| 40 | 50282788 | SHEET,NON SLIP50X200 (canopy) | 2 |
| 42 | 50282393 | SPRING WASHER 10 (canopy) | 1 |
| 43 | 50284117 | BOLT M10 X 16 PLATED (canopy) | 1 |
| 44 | 50282617 | WASHER, BRAKE ARM (canopy) | 1 |
| 45 | 50282620 | SPRING 16 (canopy) | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 91 - BLADE CYLINDER



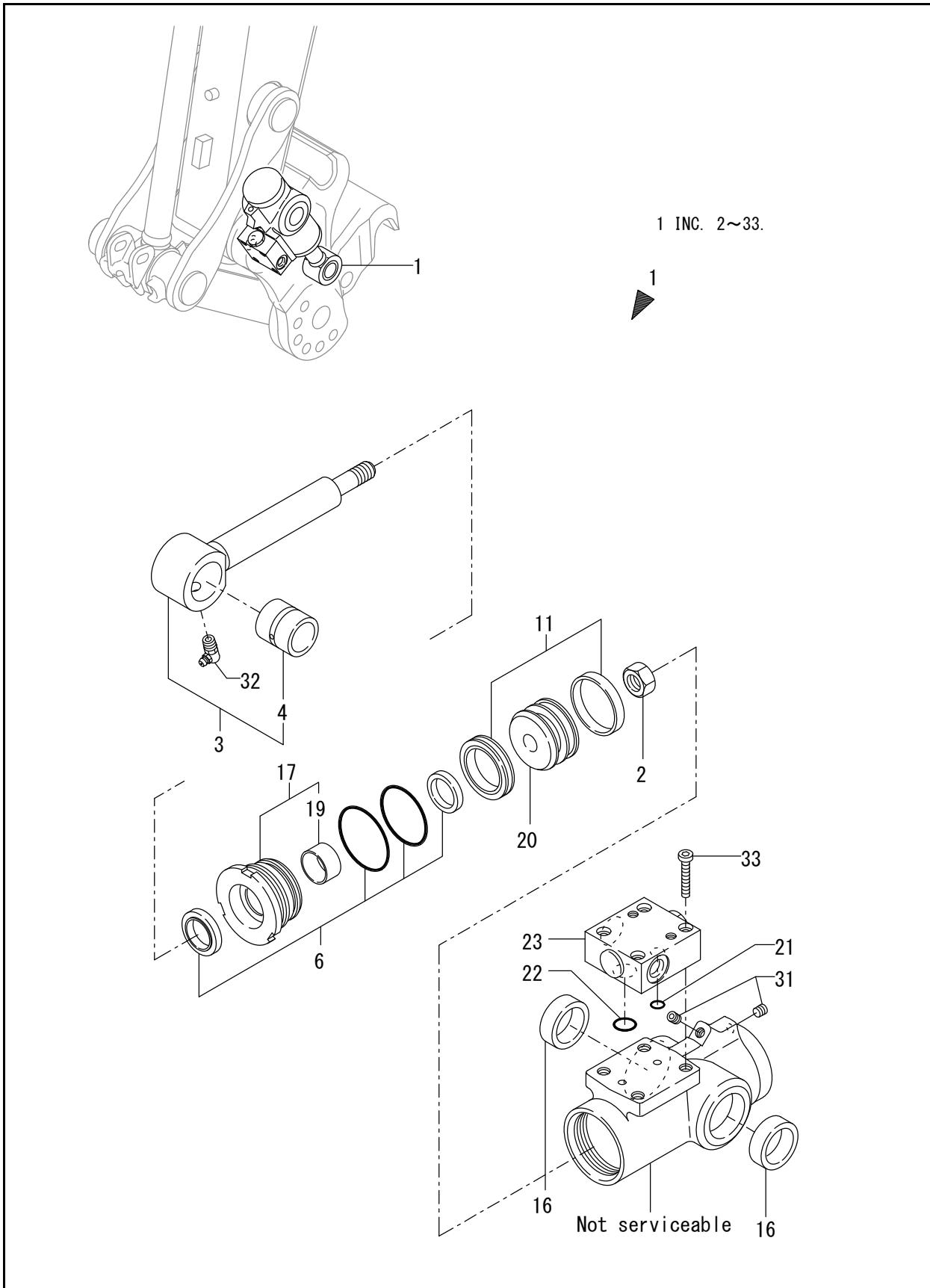
Z27 - COMPACT EXCAVATOR
FIG. 91 - BLADE CYLINDER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284244 | COVER, BLADE | 1 |
| 2 | 50284979 | CYLINDER BLADE | 1 |
| 3 | 50282729 | WASHER 75 | 1 |
| 4 | 50284232 | U-NUT | 1 |
| 5 | 50284909 | HEAD 75 40 W/BUSHING | 1 |
| 7 | 50284855 | BUSHING 40X30 | 1 |
| 8 | 50284357 | ROD ASSY, BLADE | 1 |
| 9 | 50284227 | BUSHING 40X50X40 | 1 |
| 10 | 50282912 | SEAL 40X50X4,DUST | 2 |
| 12 | 50282446 | PLUG, PT1/16 | 1 |
| 14 | 50284227 | BUSHING 40X50X40 | 1 |
| 15 | 50282912 | SEAL 40X50X4,DUST | 2 |
| 17 | 50284959 | SEAL KIT | 1 |
| 23 | 50284981 | PISTON 75X30 | 1 |
| 24 | 50284960 | PISTON SEAL SET | 1 |
| 27 | 50282514 | BOLT M10X 16 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 92 - HITCH CYLINDER (QUICK COUPLER)



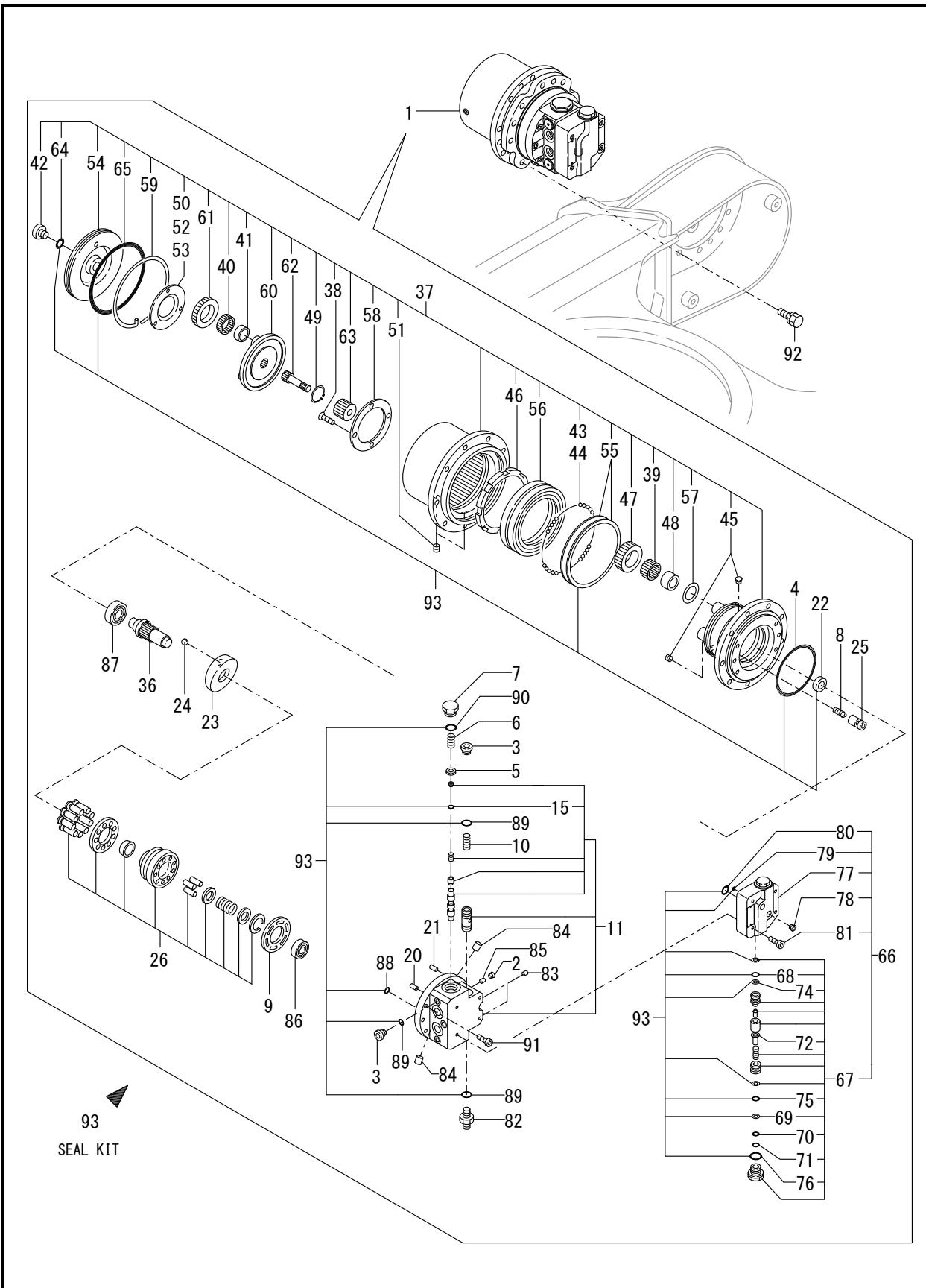
Z27 - COMPACT EXCAVATOR
FIG. 92 - HITCH CYLINDER (QUICK COUPLER)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50284412 | CYLINDER, HITCH | 1 |
| 2 | 50284218 | U-NUT M 14 | 1 |
| 3 | 50284409 | ROD ASSY, HITCH | 1 |
| 4 | 50284219 | BUSH, PIN 25 35 B | 1 |
| 6 | 50284410 | SEAL SET 50X25,HEAD | 1 |
| 11 | 50284411 | SEAL SET,PISTON(50-2 | 1 |
| 16 | 50284416 | BUSHING 30-40-13 | 2 |
| 17 | 50284414 | HEAD ASSY 50 25 | 1 |
| 19 | 50282494 | BUSHING 25X15 | 1 |
| 20 | 50284415 | PISTON 50 25 | 1 |
| 21 | 50281374 | O-RING P8 | 1 |
| 22 | 50281375 | O-RING P14 | 1 |
| 23 | 50283277 | VALVE ASSY,OPERATE | 1 |
| 31 | 50282446 | PLUG, PT1/16 | 2 |
| 32 | 50282499 | NIPPLE C,GREASE | 1 |
| 33 | 50282582 | BOLT M 6X 30 | 4 |

Z27 - COMPACT EXCAVATOR

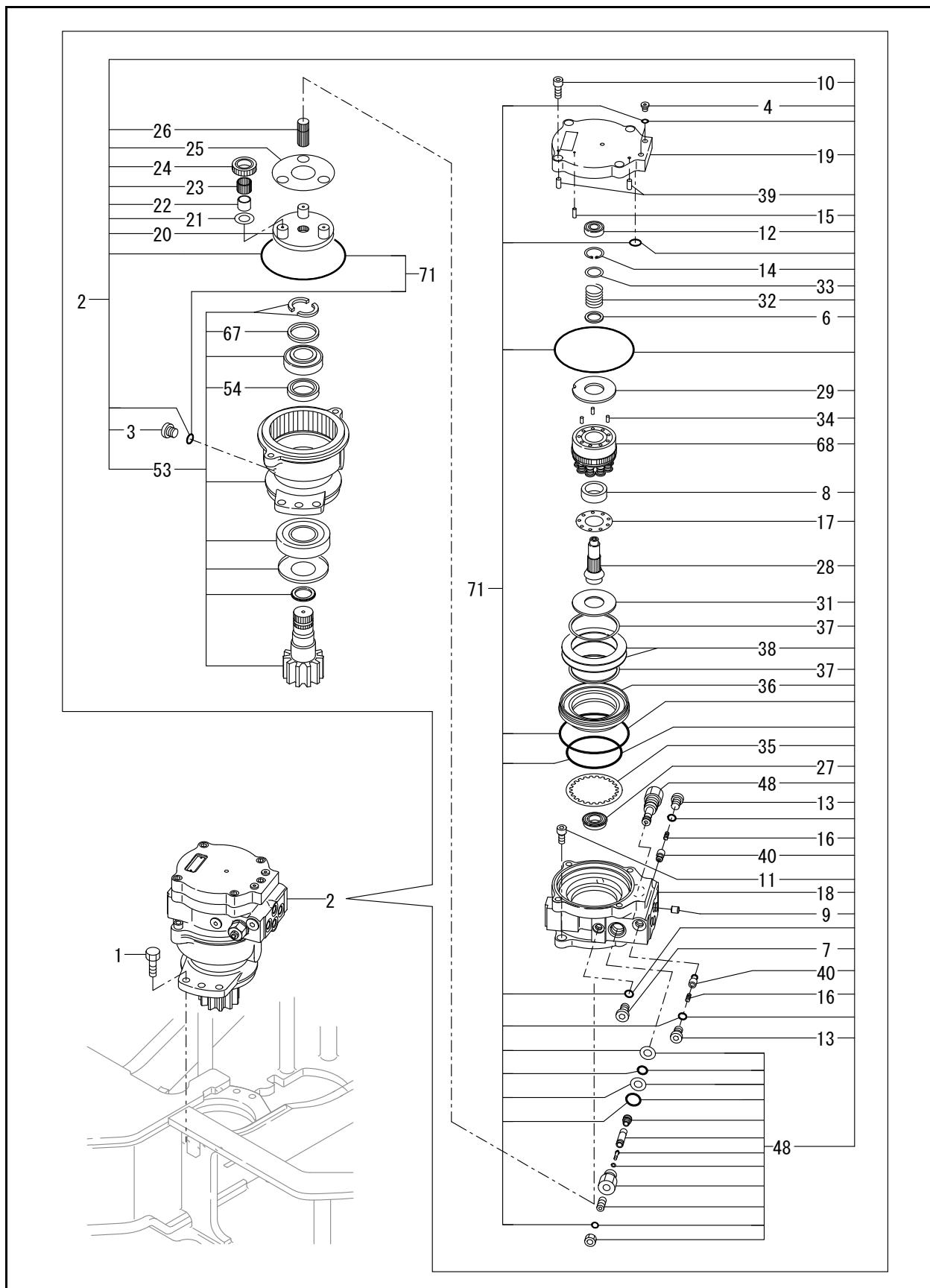
FIG. 93 - TRAVEL MOTOR



Z27 - COMPACT EXCAVATOR
FIG. 93 - TRAVEL MOTOR

| Ref. | No. | Part No. | Description | Qty. | Ref. | No. | Part No. | Description | Qty. |
|------|-----|----------|--------------------|------|------|-----|-----------|--------------------|------|
| | 1 | 50284982 | MOTOR ASSY, TRAVEL | 2 | | 64 | 50282470 | O-RING 1B P-11.0 | 4 |
| | 2 | 50282747 | PLUG | 4 | | 65 | 50285161 | O-RING | 2 |
| | 3 | 50280836 | PLUG | 6 | | 66 | 50284986 | VALVE ASSY | 2 |
| | 4 | 50284904 | O-RING | 2 | | 67 | 50284987 | RELIEF VALVE | 4 |
| | 5 | 50284906 | SEAT, SPRING | 4 | | 68 | 50284912 | RING, BUCK UP | 8 |
| | 6 | 50284907 | SPRING | 4 | | 69 | 50284913 | RING P15,T3,BACKUP | 8 |
| | 7 | 50284908 | CAP | 4 | | 70 | 50284914 | SHIM | 4 |
| | 8 | 50284225 | SPRING | 4 | | 71 | 50284916 | SHIM | 12 |
| | 9 | 50284403 | PLATE | 2 | | 72 | 50284920 | ORIFICE | 4 |
| | 10 | 50284929 | SPRING | 2 | | 74 | 50284851 | O-RING 1B P-12.0 | 4 |
| | 11 | 50284931 | BASE PLATE ASSY | 2 | | 75 | 50282472 | O-RING 1B P-15.0 | 4 |
| | 15 | 50284905 | O-RING | 4 | | 76 | 50282477 | O-RING 1B P-24.0 | 4 |
| | 20 | 50282707 | PIN | 2 | | 77 | 50284927 | VALVE BODY | 2 |
| | 21 | 50282708 | PIN | 4 | | 78 | 425-35678 | PLUG PT 1/4 SCREW | 4 |
| | 22 | 50284280 | SEAL, OIL | 2 | | 79 | 50282467 | O-RING 1B P-7.0 | 6 |
| | 23 | 50284281 | PLATE,SWASH | 2 | | 80 | 50282469 | O-RING 1B P-10.0 | 4 |
| | 24 | 50284282 | BALL,STEEL | 4 | | 81 | 50285163 | BOLT | 8 |
| | 25 | 50284283 | PISTON ASSY | 4 | | 82 | 50284926 | PLUG | 2 |
| | 26 | 50284284 | CYLINDER BLOCK KIT | 2 | | 83 | 50284928 | PLUG | 8 |
| | 36 | 50284236 | SHAFT | 2 | | 84 | 50282849 | ORIFICE | 4 |
| | 37 | 50284983 | REDUCTION GEAR | 2 | | 85 | 50282849 | ORIFICE | 8 |
| | 38 | 50282728 | SCREW | 8 | | 86 | 50284847 | BALL BEARING | 2 |
| | 39 | 50282745 | GAUGE W/ROLLER | 8 | | 87 | 50284848 | BALL BEARING #6004 | 2 |
| | 40 | 50284902 | GAUGE W/ROLLER | 6 | | 88 | 50282467 | O-RING 1B P-7.0 | 6 |
| | 41 | 50284903 | RACE, INNER | 6 | | 89 | 50282470 | O-RING 1B P-11.0 | 8 |
| | 42 | 50280836 | PLUG | 4 | | 90 | 50282477 | O-RING 1B P-24.0 | 4 |
| | 43 | 50282704 | BALL | 198 | | 91 | 50282586 | BOLT M 8X 20 | 12 |
| | 44 | 50282704 | BALL | 20 | | 92 | 50282517 | BOLT M10X 30 | 24 |
| | 45 | 50284268 | PLUG | 4 | | 93 | 50284930 | SEAL KIT | 2 |
| | 46 | 50284965 | RING NUT | 2 | | | | | |
| | 47 | 50284966 | PLANETARY, GEAR B | 8 | | | | | |
| | 48 | 50284967 | INNER RACE | 8 | | | | | |
| | 49 | 50284969 | SNAP RING | 2 | | | | | |
| | 50 | 50284970 | THRUST PLATE | 2 | | | | | |
| | 51 | 50282706 | PLUG | 4 | | | | | |
| | 52 | 50284971 | THRUST PLATE | 2 | | | | | |
| | 53 | 50284972 | THRUST PLATE | 2 | | | | | |
| | 54 | 50284973 | COVER | 2 | | | | | |
| | 55 | 50284921 | SEAL, FLOATING | 4 | | | | | |
| | 56 | 50284922 | BEARING | 2 | | | | | |
| | 57 | 50284923 | WASHER, THRUST | 8 | | | | | |
| | 58 | 50284924 | PLATE, THRUST | 2 | | | | | |
| | 59 | 50284925 | WIRE | 2 | | | | | |
| | 60 | 50284984 | HOLDER | 2 | | | | | |
| | 61 | 50284985 | PLANETARY GEAR A | 6 | | | | | |
| | 62 | 50284988 | DRIVE GEAR | 2 | | | | | |
| | 63 | 50284968 | GEAR,SUN | 2 | | | | | |

Z27 - COMPACT EXCAVATOR
FIG. 94 - TURNING MOTOR



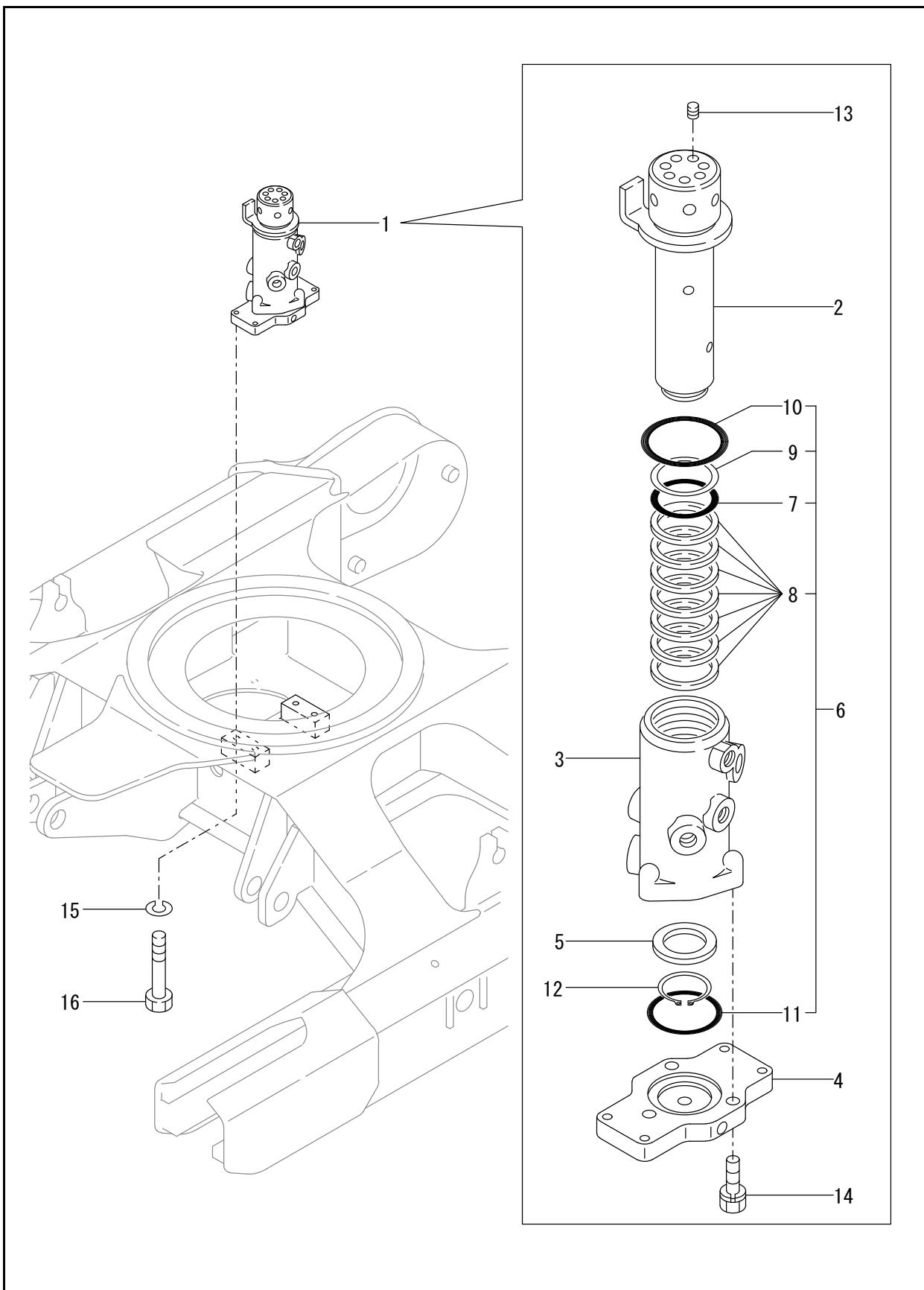
Z27 - COMPACT EXCAVATOR
FIG. 94 - TURNING MOTOR

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50281066 | BOLT 14X35 | 6 |
| 2 | 50285018 | MOTOR ASSY, TURNING | 1 |
| 3 | 50284837 | PLUG | 1 |
| 4 | 50284837 | PLUG | 2 |
| 6 | 50284214 | COLLAR | 1 |
| 7 | 50280836 | PLUG | 1 |
| 8 | 50284215 | HOLDER, RETAINER | 1 |
| 9 | 50280796 | ORIFICE | 1 |
| 10 | 50284198 | BOLT, SOCKET | 5 |
| 11 | 50284198 | BOLT, SOCKET | 2 |
| 12 | 50282750 | BALL BEARING | 1 |
| 13 | 50280828 | PLUG | 2 |
| 14 | 50284195 | SNAP RING | 1 |
| 15 | 50282707 | PIN | 1 |
| 16 | 50284404 | SPRING | 2 |
| 17 | 50284252 | RETAINER PLATE | 1 |
| 18 | 50285123 | CASE | 1 |
| 19 | 50284384 | PLATE | 1 |
| 20 | 50284286 | COLLAR | 1 |
| 21 | 50284288 | WASHER,THRUST | 3 |
| 22 | 50284289 | INNER RACE | 3 |
| 23 | 50284290 | NEEDLE BEARING | 3 |
| 24 | 50285021 | PLANETARY, GEAR | 3 |
| 25 | 50285022 | PLATE,THRUST | 1 |
| 26 | 50285023 | GEAR, DRIVE | 1 |
| 27 | 50285024 | BALL BEARING | 1 |
| 28 | 50285025 | SHAFT | 1 |
| 29 | 50285026 | PLATE, VALVE | 1 |
| 31 | 50284303 | PLATE,THRUST | 1 |
| 32 | 50284304 | SPRING | 1 |
| 33 | 50284305 | WASHER | 1 |
| 34 | 50284306 | PIN | 3 |
| 35 | 50284307 | DISK | 1 |
| 36 | 50284308 | PISTON, BRAKE | 1 |
| 37 | 50284309 | SEAT, SPRING | 2 |
| 38 | 50284310 | SPRING ASSY,DISK | 1 |
| 39 | 50284311 | PIN | 2 |
| 40 | 50284312 | CHECK VALVE | 2 |
| 48 | 50285027 | RELIEF VALVE | 2 |
| 53 | 50285028 | HOUSING ASSY | 1 |
| 54 | 50284285 | SEAL, OIL | 1 |
| 67 | 50285020 | COLLAR | 1 |
| 68 | 50284313 | KIT,CYLINDER BLOCK | 1 |
| 71 | 50284364 | REPAIR KIT | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 95 - SWIVEL JOINT

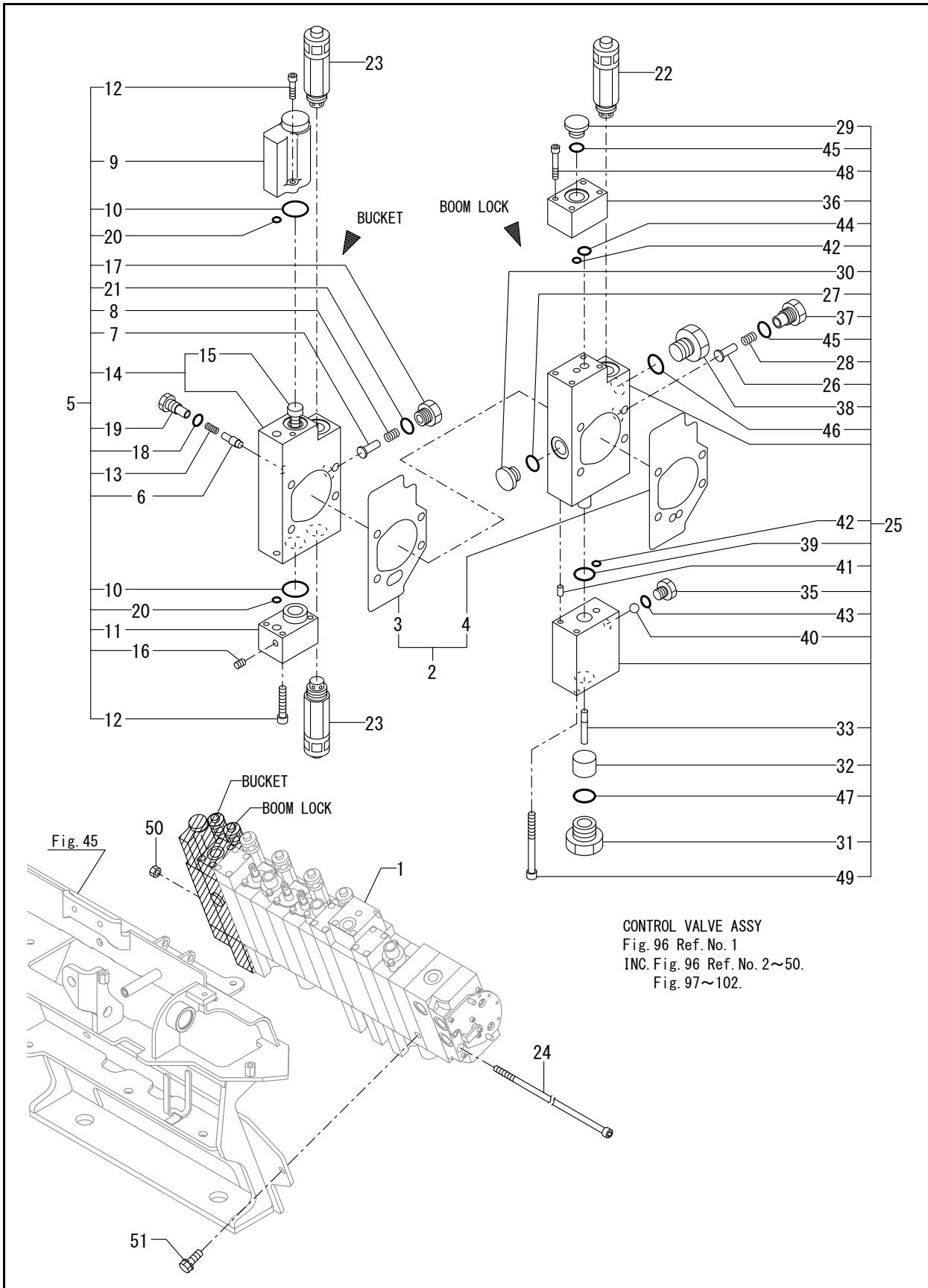


Z27 - COMPACT EXCAVATOR
FIG. 95 - SWIVEL JOINT

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50282890 | JOINT ASSY, SWIVEL | 1 |
| 2 | 50282891 | SHAFT, SWIVEL | 1 |
| 3 | 50282892 | HUB, SWIVEL | 1 |
| 4 | 50282893 | FLANGE, SWIVEL | 1 |
| 5 | 50282722 | SPACER, SWIVEL | 1 |
| 6 | 50282894 | SEAL KIT,SWIVEL | 1 |
| 7 | 50282735 | O-RING 55.76X5.7 | 1 |
| 8 | 50282908 | SEAL | 7 |
| 9 | 50282755 | RING EL, BACK UP | 1 |
| 10 | 50284077 | O-RING 1A P-75.0 | 1 |
| 11 | 186610 | O-RING 1A G70.0 NBR | 1 |
| 12 | 50284046 | CIRCLIP 45 | 1 |
| 13 | 425-35678 | PLUG PT 1/4 SCREW | 7 |
| 14 | 50282518 | BOLT M10X 35 | 3 |
| 15 | 50282393 | SPRING WASHER 10 | 4 |
| 16 | 50284121 | BOLT M10 X 65 PLATED | 4 |

Z27 - COMPACT EXCAVATOR
FIG. 96 - CONTROL VALVE (1/7)



Z27 - COMPACT EXCAVATOR**FIG. 96 - CONTROL VALVE (1/7)**

Ref.

No. Part No.

Description

Qty.

| | | | |
|----|----------|---------------------|----|
| 1 | 50285074 | VALVE ASSY,CONTROL | 1 |
| 2 | 50283345 | GASKET,KIT-11 | 1 |
| 3 | 50283727 | GASKET B | 11 |
| 4 | 50283728 | GASKET A | 1 |
| 5 | 50284667 | CHANGEOVER, BUCKET | 1 |
| 6 | 50283265 | CHECK VALVE | 1 |
| 7 | 50283052 | CHECK VALVE | 1 |
| 8 | 50283053 | SPRING, CHECK VALVE | 1 |
| 9 | 50283674 | COVER AL,PILOT | 1 |
| 10 | 50283055 | PACKING S 22 | 2 |
| 11 | 50283675 | COVER AS,PILOT | 1 |
| 12 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 13 | 50282819 | SPRING,CHECK | 1 |
| 14 | 50284663 | BUCKET SECTION SUB | 1 |
| 15 | 50284662 | SPOOL ASSY,BUCKET | 1 |
| 16 | 50283061 | PLUG GPM1/32 | 1 |
| 17 | 50283065 | STAY, CHECK VALVE | 1 |
| 18 | 50283719 | O-RING AS568-904 | 1 |
| 19 | 50283721 | STAY, CHECK VALVE | 1 |
| 20 | 197795 | O-RING 1A P-6.0 | 2 |
| 21 | 50282470 | O-RING 1B P-11.0 | 1 |
| 22 | 50284318 | OVERLOAD 300/5 | 1 |
| 23 | 50284363 | OVERLOAD 260/5 | 2 |
| 24 | 50283729 | BOLT L=412 | 4 |
| 25 | 50283749 | LOCK VALVE ASSY | 1 |
| 26 | 50283265 | CHECK VALVE | 1 |
| 27 | 50283678 | O-RING 1B S16 | 1 |
| 28 | 50282819 | SPRING,CHECK | 1 |
| 29 | 50282840 | PLUG PF1/4 | 1 |
| 30 | 50283697 | PLUG,M12X1.25 | 1 |
| 31 | 50283707 | BUSHING PF1/2X1/4 | 1 |
| 32 | 50283708 | PISTON B | 1 |
| 33 | 50283709 | PISTON A1 | 1 |
| 35 | 50283716 | STAY,BALL | 1 |
| 36 | 50283717 | BODY,DISCHARGE | 1 |
| 37 | 50283721 | STAY, CHECK VALVE | 1 |
| 38 | 50283750 | STAY,CHECK V(SC3A | 1 |

Ref.

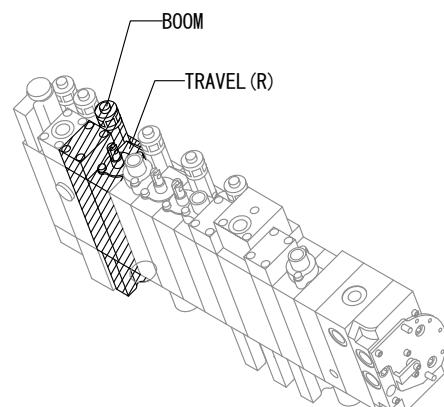
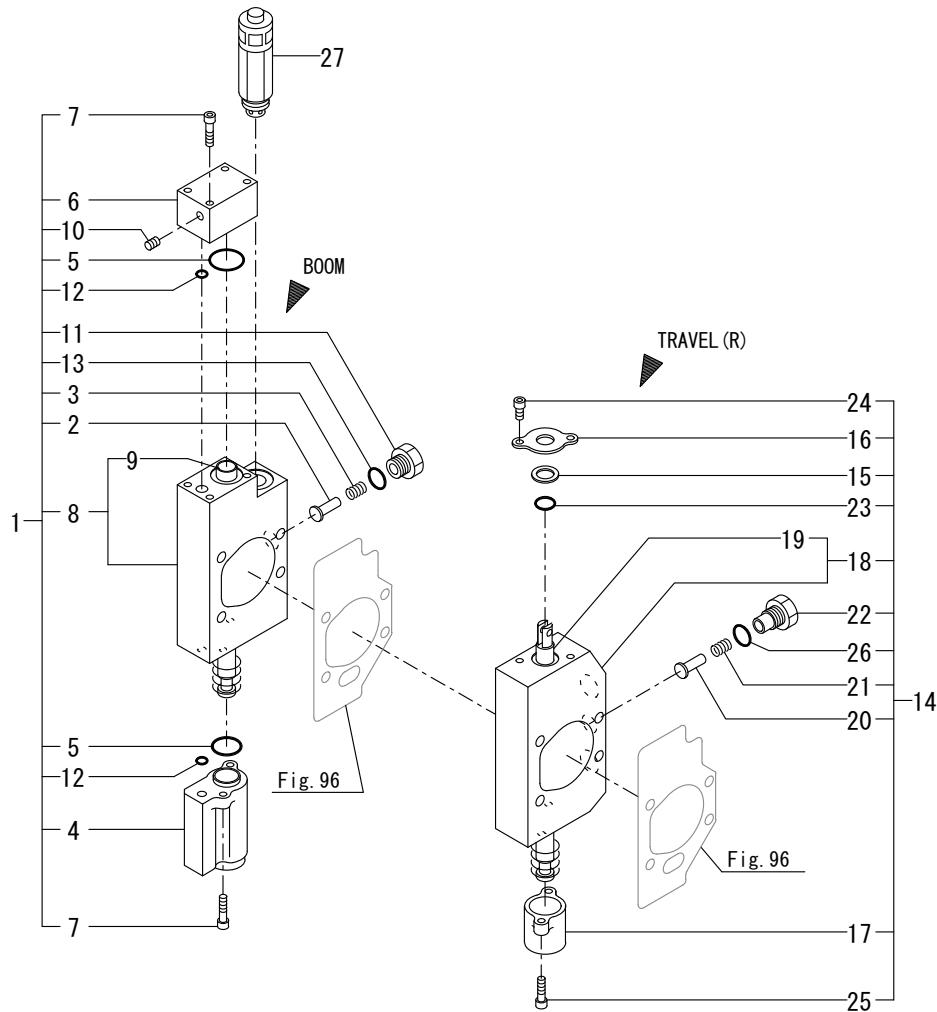
No. Part No.

Description

Qty.

| | | | |
|----|----------|---------------------|---|
| 39 | 50283756 | O-RING AS 1B17 | 1 |
| 40 | 50283757 | STEEL BALE 7MM | 1 |
| 41 | 50284053 | PARALLEL PIN, M5X10 | 2 |
| 42 | 197795 | O-RING 1A P-6.0 | 2 |
| 43 | 50282468 | O-RING 1B P-8.0 | 1 |
| 44 | 50282469 | O-RING 1B P-10.0 | 1 |
| 45 | 50282470 | O-RING 1B P-11.0 | 2 |
| 46 | 50282471 | O-RING 1B P-14.0 | 1 |
| 47 | 50282474 | O-RING 1B P-18.0 | 1 |
| 48 | 50284130 | BOLT M5 X 30 | 2 |
| 49 | 50284133 | BOLT M6 X 65 | 2 |
| 50 | 50282596 | NUT M 8 | 4 |
| 51 | 50282514 | BOLT M10X 16 | 3 |

Z27 - COMPACT EXCAVATOR
FIG. 97 - CONTROL VALVE (2/7)

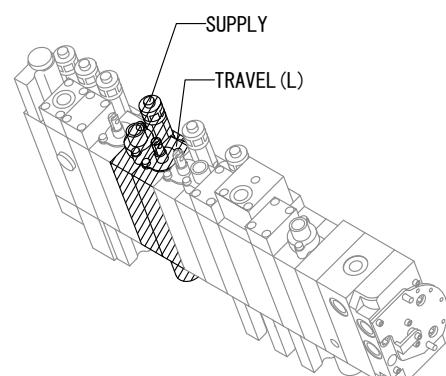
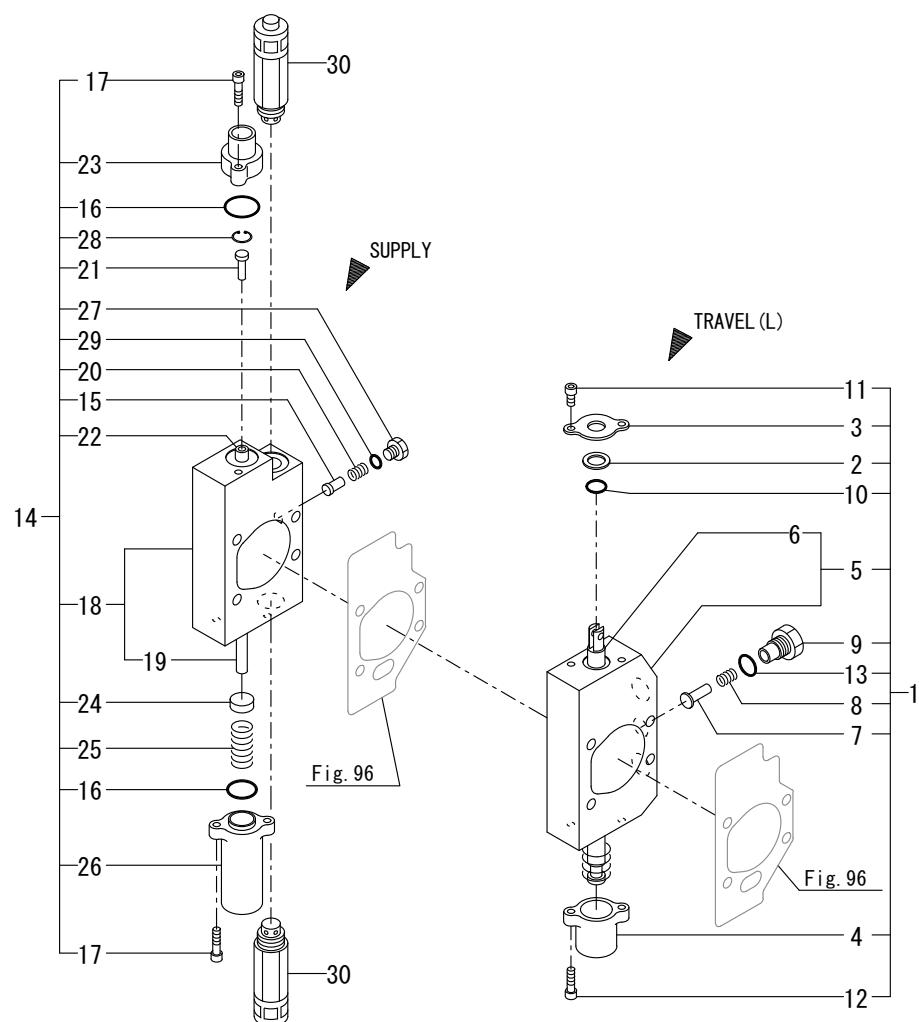


Z27 - COMPACT EXCAVATOR
FIG. 97 - CONTROL VALVE (2/7)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|---------------------|------|
| 1 | 50285075 | CHANGEOVER, BOOM | 1 |
| 2 | 50283052 | CHECK VALVE | 1 |
| 3 | 50283053 | SPRING, CHECK VALVE | 1 |
| 4 | 50283674 | COVER AL,PILOT | 1 |
| 5 | 50283055 | PACKING S 22 | 2 |
| 6 | 50283675 | COVER AS,PILOT | 1 |
| 7 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 8 | 50286474 | BOOM SUB SECTION | 1 |
| 9 | 50285076 | SPOOL ASSY,BOOM | 1 |
| 10 | 50283061 | PLUG GPM1/32 | 1 |
| 11 | 50283065 | STAY, CHECK VALVE | 1 |
| 12 | 197795 | O-RING 1A P-6.0 | 2 |
| 13 | 50282607 | PACKING, 11.0 | 1 |
| 14 | 50285078 | SELECTOR,TRAVEL | 1 |
| 15 | 50283050 | DUST WIPER | 1 |
| 16 | 50283051 | BRACKET, OIL SEAL | 1 |
| 17 | 50283968 | CAP,SPRING | 1 |
| 18 | 50286473 | TRAVEL SUB SECTION | 1 |
| 19 | 50285079 | SPOOL ASSY,TRAVEL | 1 |
| 20 | 50283059 | CHECK VALVE | 1 |
| 21 | 50283060 | SPRING, CHECK VALVE | 1 |
| 22 | 50283066 | STAY, CHECK VALVE | 1 |
| 23 | 425-34776 | O-RING 1A P-12.0 | 1 |
| 24 | 197813 | BOLT M5X10 | 2 |
| 25 | 50284129 | BOLT 5* 18 | 2 |
| 26 | 50282607 | PACKING, 11.0 | 1 |
| 27 | 50284961 | VALVE ASSY, RELIEF | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 98 - CONTROL VALVE (3/7)

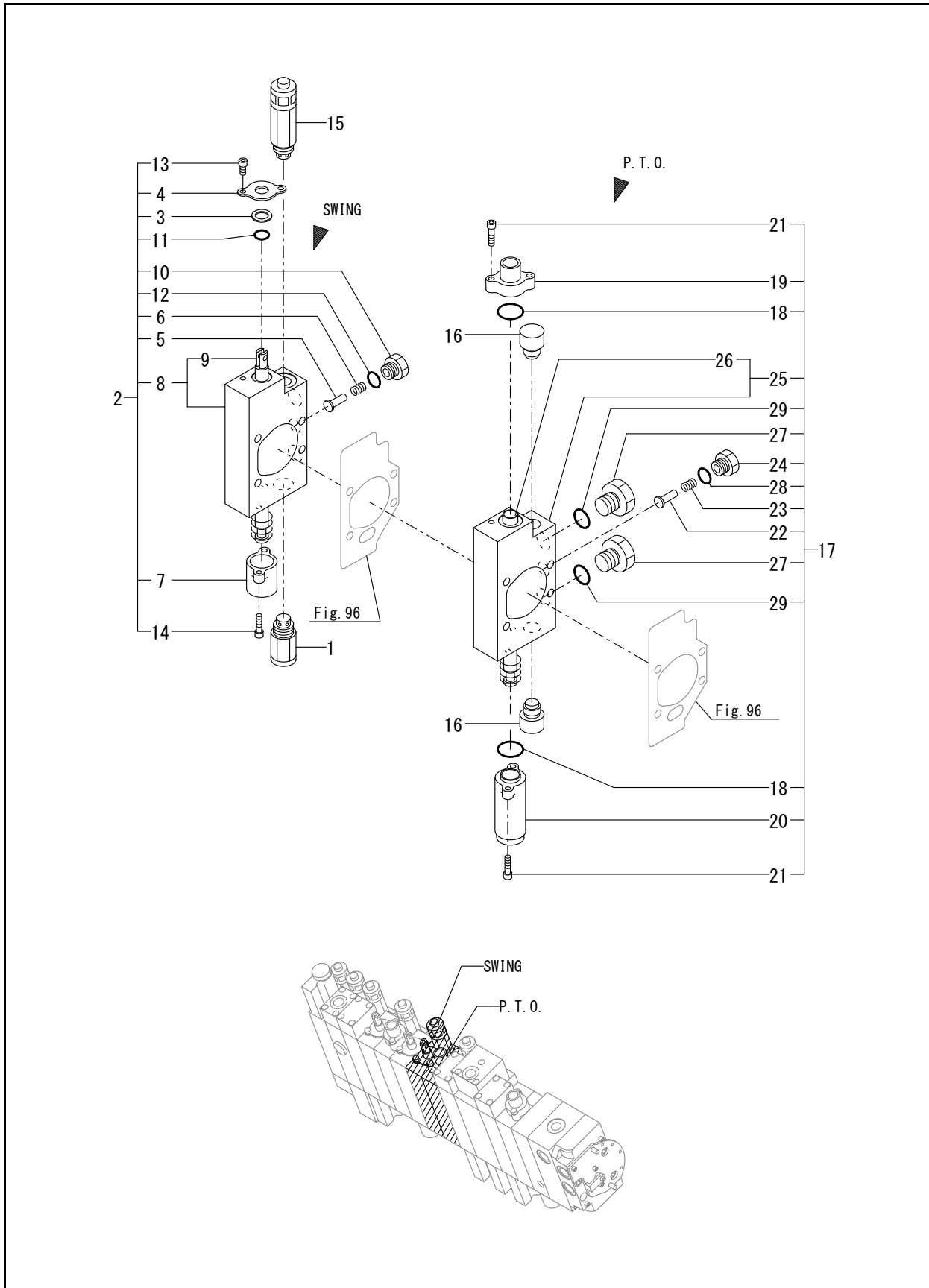


Z27 - COMPACT EXCAVATOR
FIG. 98 - CONTROL VALVE (3/7)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|---------------------|------|
| 1 | 50285081 | SELECTOR,TRAVEL | 1 |
| 2 | 50283050 | DUST WIPER | 1 |
| 3 | 50283051 | BRACKET, OIL SEAL | 1 |
| 4 | 50283968 | CAP,SPRING | 1 |
| 5 | 50286472 | TRAVEL SUB SECTION | 1 |
| 6 | 50285079 | SPOOL ASSY,TRAVEL | 1 |
| 7 | 50283059 | CHECK VALVE | 1 |
| 8 | 50283060 | SPRING, CHECK VALVE | 1 |
| 9 | 50283066 | STAY, CHECK VALVE | 1 |
| 10 | 425-34776 | O-RING 1A P-12.0 | 1 |
| 11 | 197813 | BOLT M5X10 | 2 |
| 12 | 50284129 | BOLT 5* 18 | 2 |
| 13 | 50282607 | PACKING, 11.0 | 1 |
| 14 | 50284671 | PART, SUPPLY | 1 |
| 15 | 50283265 | CHECK VALVE | 1 |
| 16 | 50283055 | PACKING S 22 | 2 |
| 17 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 18 | 50284658 | INLET SECTION SUB | 1 |
| 19 | 50284657 | SPOOL ASSY,INLET | 1 |
| 20 | 50282819 | SPRING,CHECK | 1 |
| 21 | 50283688 | FILTER | 1 |
| 22 | 50283689 | PISTON | 1 |
| 23 | 50283690 | COVER B5, PILOT | 1 |
| 24 | 50283062 | SEAT, SPRING | 1 |
| 25 | 50283063 | SPRING,RETURN | 1 |
| 26 | 50283064 | COVER A2, PILOT | 1 |
| 27 | 50283068 | PLUG,PF1/8 | 1 |
| 28 | 50283722 | CIRCLIP,C | 1 |
| 29 | 50282468 | O-RING 1B P-8.0 | 1 |
| 30 | 50285154 | VALVE, RELIEF | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 99 - CONTROL VALVE (4/7)

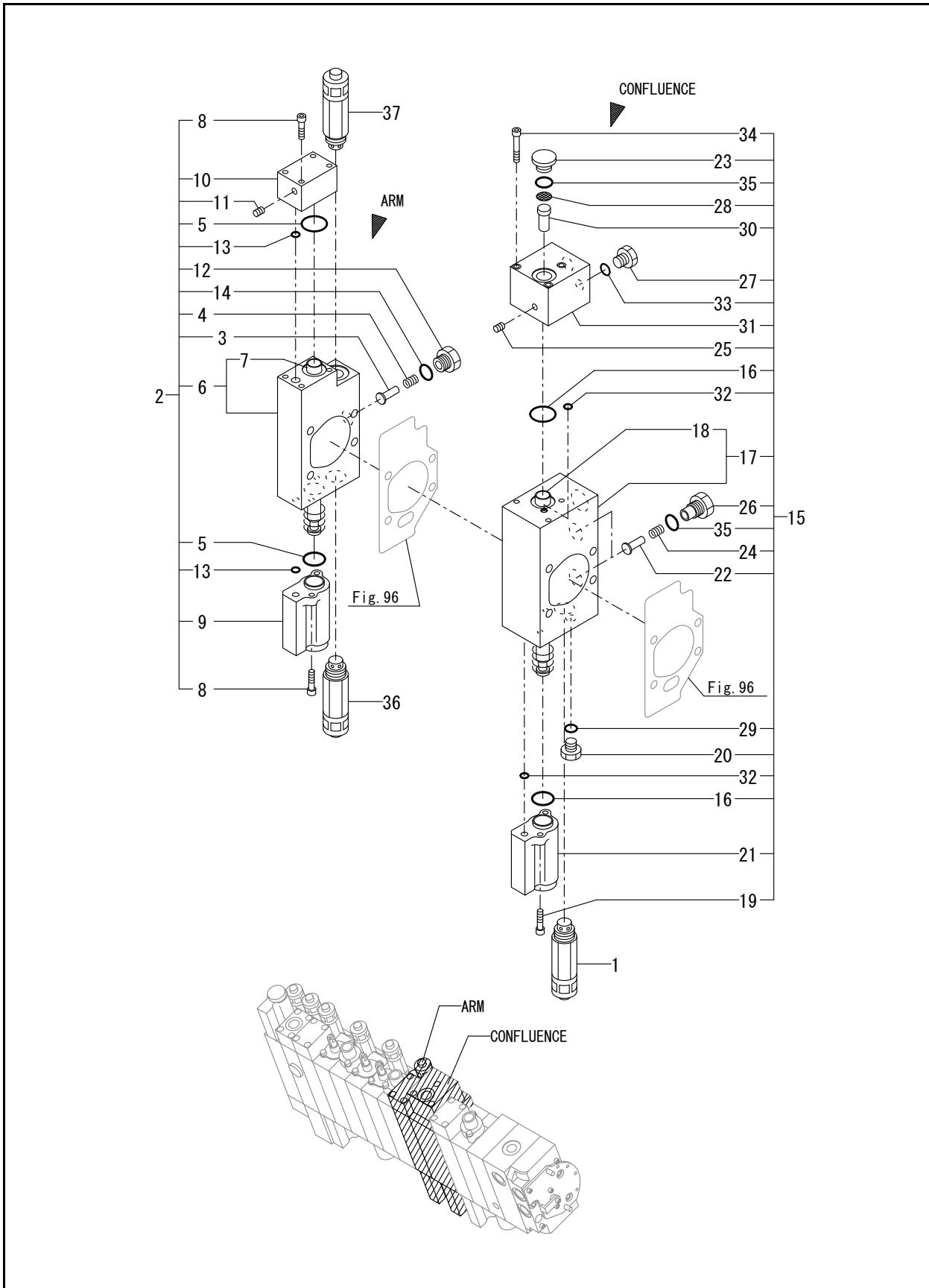


Z27 - COMPACT EXCAVATOR
FIG. 99 - CONTROL VALVE (4/7)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50284267 | ANTI-CAVITATION | 1 |
| 2 | 50284675 | SWING CHANGER | 1 |
| 3 | 50283050 | DUST WIPER | 1 |
| 4 | 50283051 | BRACKET, OIL SEAL | 1 |
| 5 | 50283052 | CHECK VALVE | 1 |
| 6 | 50283053 | SPRING, CHECK VALVE | 1 |
| 7 | 50283968 | CAP,SPRING | 1 |
| 8 | 50284654 | SWING SECTION SUB | 1 |
| 9 | 50284653 | SPOOL ASSY,SWING | 1 |
| 10 | 50283065 | STAY, CHECK VALVE | 1 |
| 11 | 425-34776 | O-RING 1A P-12.0 | 1 |
| 12 | 50282470 | O-RING 1B P-11.0 | 1 |
| 13 | 197813 | BOLT M5X10 | 2 |
| 14 | 50284129 | BOLT 5* 18 | 2 |
| 15 | 50284363 | OVERLOAD 260/5 | 1 |
| 16 | 50283730 | RELIEF VALVE PLUG AS | 2 |
| 17 | 50283742 | PTO SELECT | 1 |
| 18 | 50283055 | PACKING S 22 | 2 |
| 19 | 50283056 | COVER B1, PILOT | 1 |
| 20 | 50283057 | COVER A1, PILOT | 1 |
| 21 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 22 | 50283254 | CHECK VALVE | 1 |
| 23 | 50283255 | SPRING, CHECK VALVE | 1 |
| 24 | 50283256 | STAY, CHECK VALVE | 1 |
| 25 | 50283698 | PTO SECTION ASSY | 1 |
| 26 | 50283684 | SPOOL ASSY,PTO 2 | 1 |
| 27 | 50283067 | STAY, CHECK VALVE | 2 |
| 28 | 50282470 | O-RING 1B P-11.0 | 1 |
| 29 | 50282471 | O-RING 1B P-14.0 | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 100 - CONTROL VALVE (5/7)



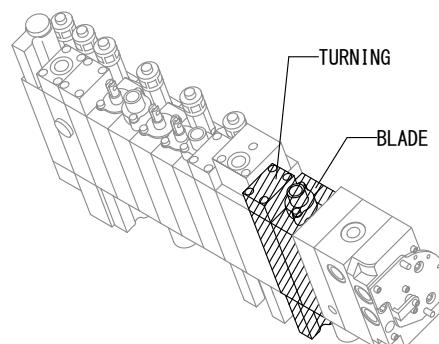
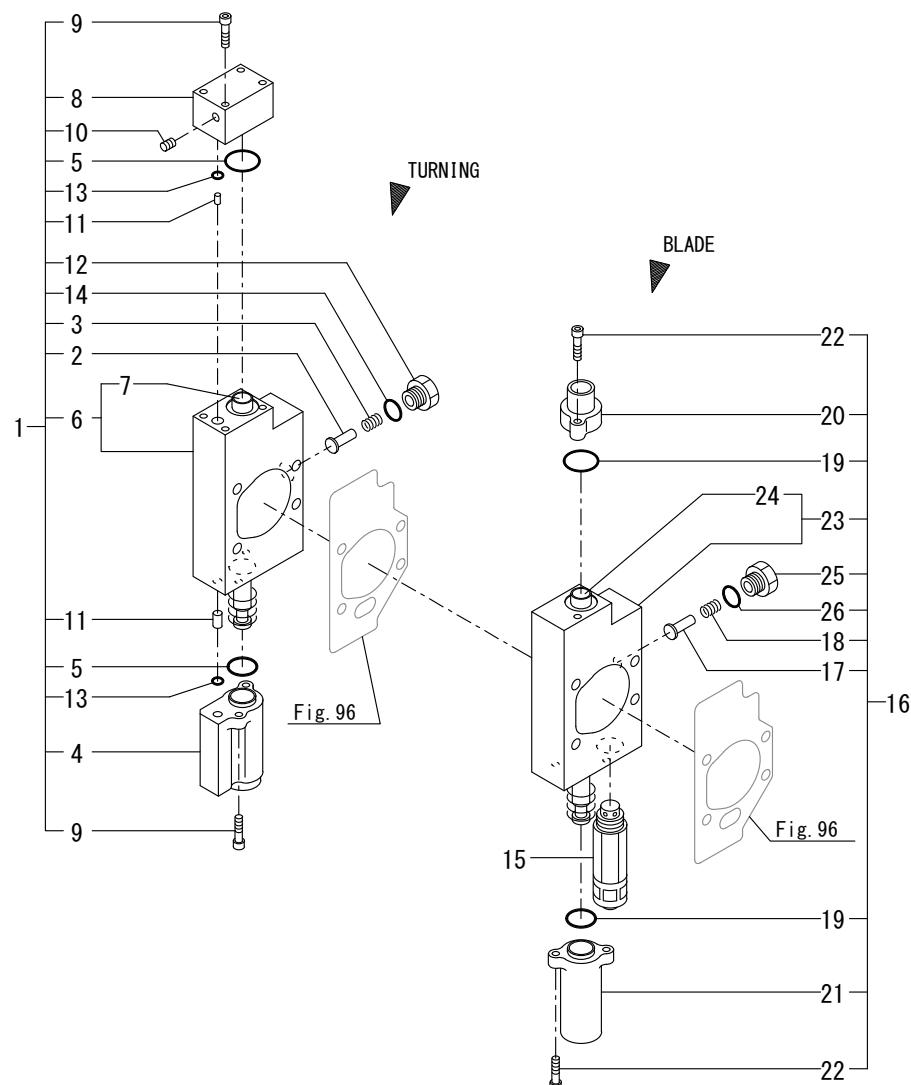
Z27 - COMPACT EXCAVATOR
FIG. 100 - CONTROL VALVE (5/7)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50285124 | VALVE ASSY, RELIEF | 1 |
| 2 | 50285082 | VALVE ASSY, SECTION | 1 |
| 3 | 50283052 | CHECK VALVE | 1 |
| 4 | 50283053 | SPRING, CHECK VALVE | 1 |
| 5 | 50283055 | PACKING S 22 | 2 |
| 6 | 50286471 | ARM SUB SECTION | 1 |
| 7 | 50285083 | SPOOL ASSY, ARM | 1 |
| 8 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 9 | 50283679 | COVER BL ,PILOT | 1 |
| 10 | 50283682 | COVER BS,PILOT | 1 |
| 11 | 50283061 | PLUG GPM1/32 | 1 |
| 12 | 50283065 | STAY, CHECK VALVE | 1 |
| 13 | 197795 | O-RING 1A P-6.0 | 2 |
| 14 | 50282607 | PACKING, 11.0 | 1 |
| 15 | 50285084 | SECTION ASSY | 1 |
| 16 | 50283055 | PACKING S 22 | 2 |
| 17 | 50286470 | JOIN SUB SECTION | 1 |
| 18 | 50285085 | SPOOL ASSY, JOIN | 1 |
| 19 | 50283058 | SWP HEX.BOLT 5X20 | 2 |
| 20 | 50283677 | PLUG (SAE1/4) | 1 |
| 21 | 50283679 | COVER BL ,PILOT | 1 |
| 22 | 50283059 | CHECK VALVE | 2 |
| 23 | 50282840 | PLUG PF1/4 | 1 |
| 24 | 50283060 | SPRING, CHECK VALVE | 2 |
| 25 | 50283061 | PLUG GPM1/32 | 2 |
| 26 | 50283066 | STAY, CHECK VALVE | 2 |
| 27 | 50283068 | PLUG,PF1/8 | 1 |
| 28 | 50283266 | FILTER | 1 |
| 29 | 50283719 | O-RING AS568-904 | 1 |
| 30 | 50283267 | PLUG | 1 |
| 31 | 50283720 | BODY,PILOT | 1 |
| 32 | 197795 | O-RING 1A P-6.0 | 2 |
| 33 | 50282468 | O-RING 1B P-8.0 | 1 |
| 34 | 50284131 | BOLT M5 X 45 | 3 |
| 35 | 50282607 | PACKING, 11.0 | 3 |
| 36 | 50284961 | VALVE ASSY, RELIEF | 1 |
| 37 | 50284363 | OVERLOAD 260/5 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 101 - CONTROL VALVE (6/7)

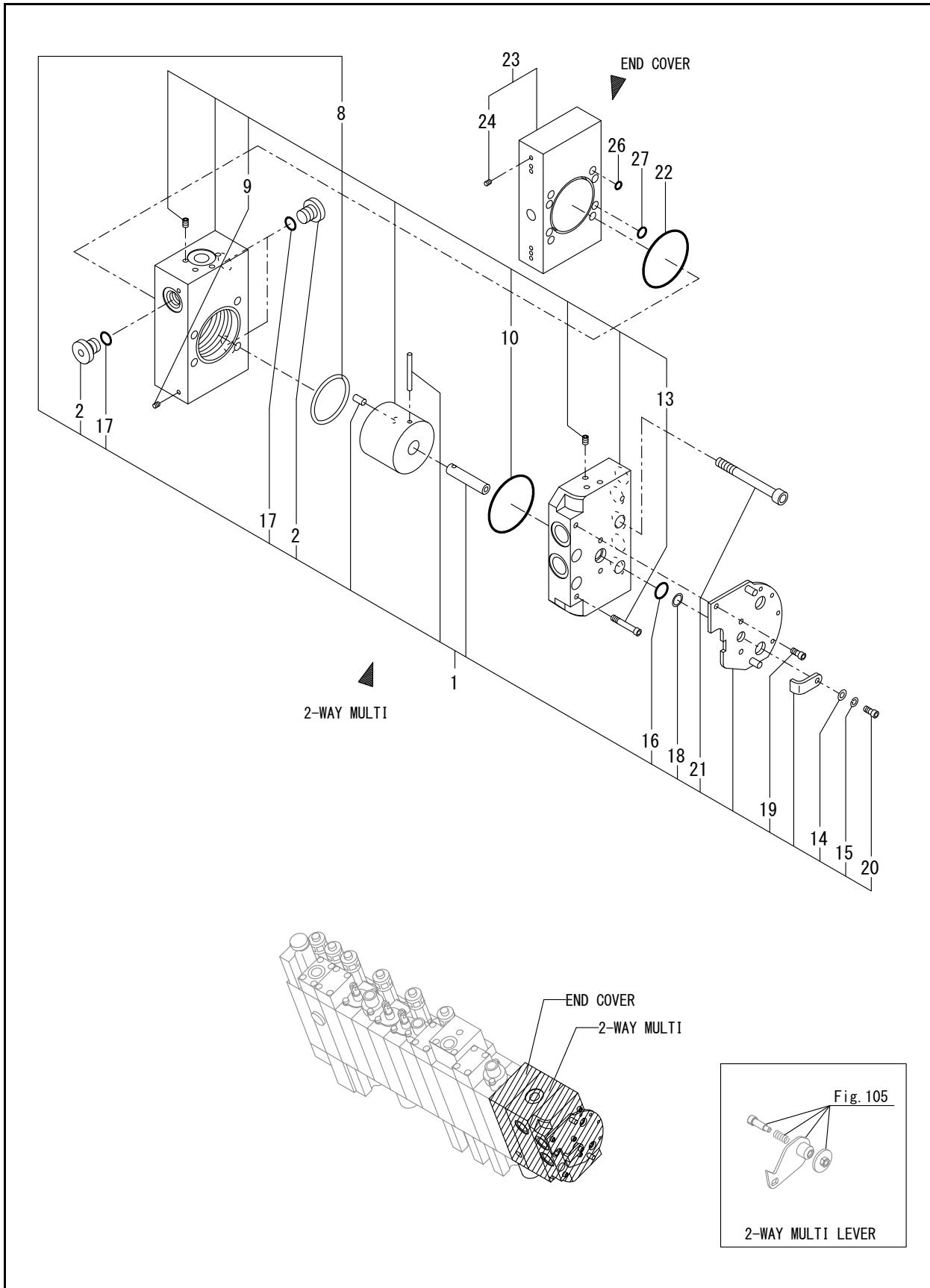


Z27 - COMPACT EXCAVATOR
FIG. 101 - CONTROL VALVE (6/7)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50285086 | SELECTOR,SWING | 1 |
| 2 | 50283052 | CHECK VALVE | 1 |
| 3 | 50283053 | SPRING, CHECK VALVE | 1 |
| 4 | 50283674 | COVER AL,PILOT | 1 |
| 5 | 50283055 | PACKING S 22 | 2 |
| 6 | 50286469 | TURNING SUB SECTION | 1 |
| 7 | 50285087 | SPOOL ASSY,TURNING | 1 |
| 8 | 50283675 | COVER AS,PILOT | 1 |
| 9 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 10 | 50283061 | PLUG GPM1/32 | 1 |
| 11 | 50284679 | M4 THROTTLE, 0.6 | 2 |
| 12 | 50283065 | STAY, CHECK VALVE | 1 |
| 13 | 197795 | O-RING 1A P-6.0 | 2 |
| 14 | 50282607 | PACKING, 11.0 | 1 |
| 15 | 50284362 | VALVE/RELIEF | 1 |
| 16 | 50283747 | BLADE, CHANGE-OVER | 1 |
| 17 | 50283052 | CHECK VALVE | 1 |
| 18 | 50283053 | SPRING, CHECK VALVE | 1 |
| 19 | 50283055 | PACKING S 22 | 2 |
| 20 | 50283056 | COVER B1, PILOT | 1 |
| 21 | 50283057 | COVER A1, PILOT | 1 |
| 22 | 50283058 | SWP HEX.BOLT 5X20 | 4 |
| 23 | 50283692 | BLDE SECTION SUB | 1 |
| 24 | 50283755 | SPOOL ASSY, BLADE | 1 |
| 25 | 50283065 | STAY, CHECK VALVE | 1 |
| 26 | 50282470 | O-RING 1B P-11.0 | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 102 - CONTROL VALVE (7/7)



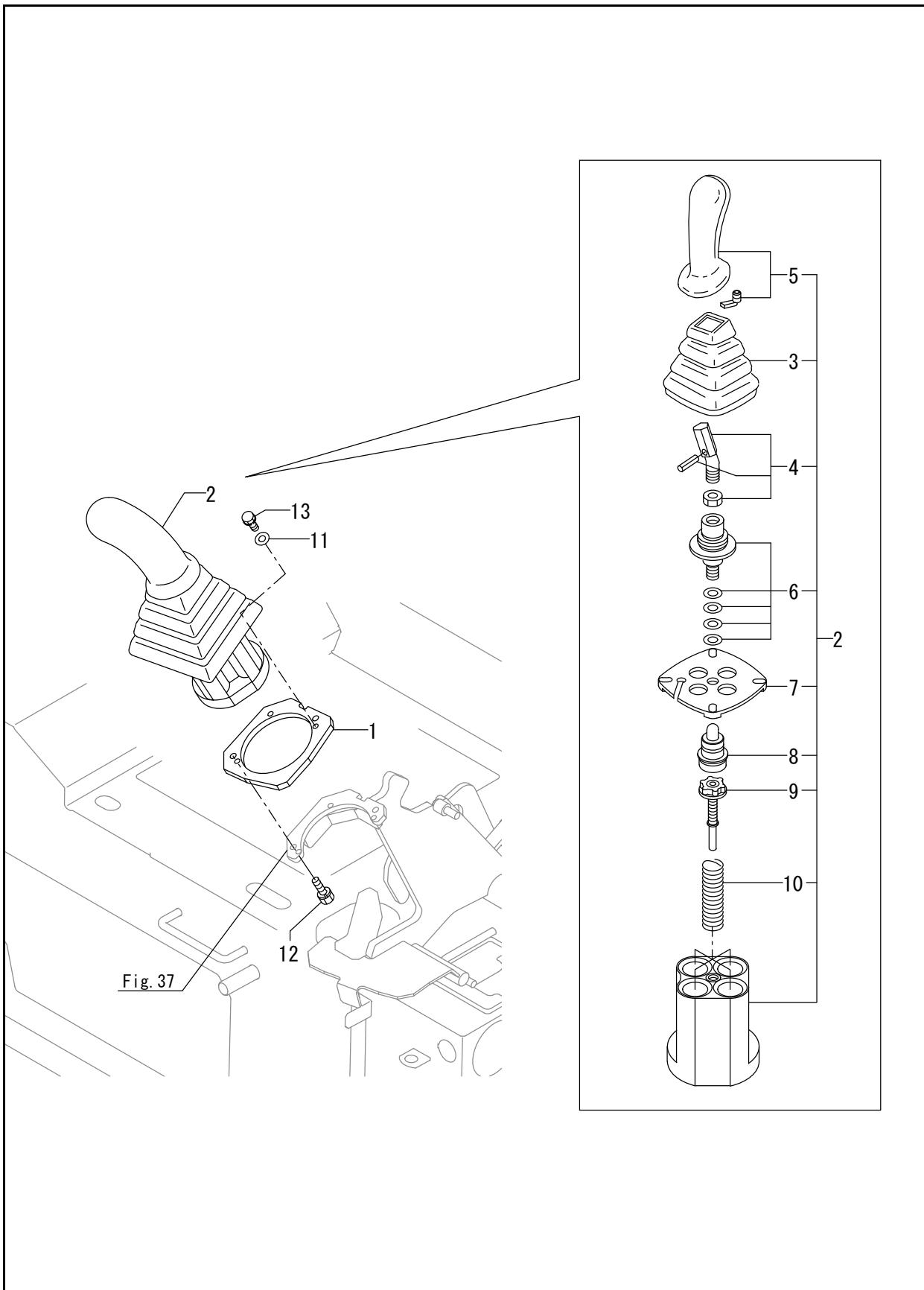
Z27 - COMPACT EXCAVATOR
FIG. 102 - CONTROL VALVE (7/7)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50283673 | CP MCV 2WAY-JD | 1 |
| 2 | 50282840 | PLUG PF1/4 | 3 |
| 8 | 50283771 | BODY 2-WAY KIT | 1 |
| 9 | 50283061 | PLUG GPM1/32 | 2 |
| 10 | 50283726 | O-RING 1B S55 | 1 |
| 13 | 50284130 | BOLT M5 X 30 | 2 |
| 14 | 50284040 | WASHER 5, POLISHED | 1 |
| 15 | 425-34968 | SPRING WASHER 5 | 1 |
| 16 | 425-34827 | O-RING 1A P-10A | 1 |
| 17 | 50282470 | O-RING 1B P-11.0 | 3 |
| 18 | 50284089 | RING,BACKUP T3 P 10A | 1 |
| 19 | 197813 | BOLT M5X10 | 3 |
| 20 | 197813 | BOLT M5X10 | 1 |
| 21 | 50284135 | BOLT M8 X 75 | 4 |
| 22 | 50283726 | O-RING 1B S55 | 1 |
| 23 | 50283748 | COVER ASSY,END | 1 |
| 24 | 50283061 | PLUG GPM1/32 | 8 |
| 26 | 197795 | O-RING 1A P-6.0 | 7 |
| 27 | 50284075 | O-RING 1A P-9.0 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 103 - REMOTE CONTROL VALVE (LEFT)



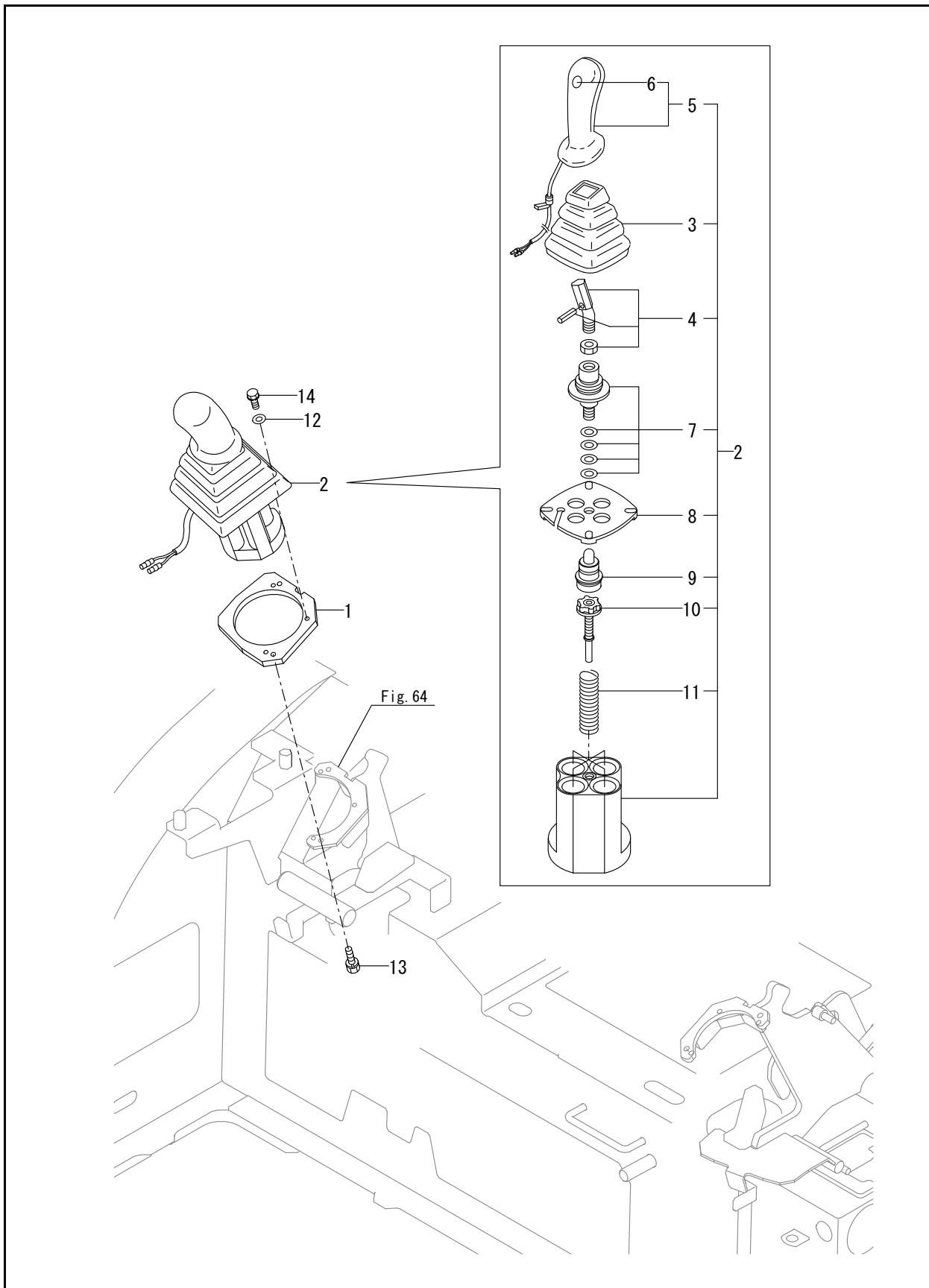
Z27 - COMPACT EXCAVATOR
FIG. 103 - REMOTE CONTROL VALVE (LEFT)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------|------|
| 1 | 50282081 | SPACER,VALVE | 1 |
| 2 | 50283223 | VALVE ASSY, L.US | 1 |
| 3 | 50281044 | BELLOWS | 1 |
| 4 | 50281045 | COMMAND KIT | 1 |
| 5 | 50282885 | HANDLE L | 1 |
| 6 | 50281150 | CARDAN KIT | 1 |
| 7 | 50281151 | RETAINING PLATE | 1 |
| 8 | 50281152 | PLUNGER KIT | 1 |
| 9 | 50281153 | REGULATION KIT | 4 |
| 10 | 50281154 | SPRING KIT | 1 |
| 11 | 50282379 | WASHER 6, POLISHED | 3 |
| 12 | 50282502 | BOLT M 6X 16 | 2 |
| 13 | 50284095 | BOLT M6 X 20 | 3 |

Z27 - COMPACT EXCAVATOR

FIG. 104 - REMOTE CONTROL VALVE (RIGHT)



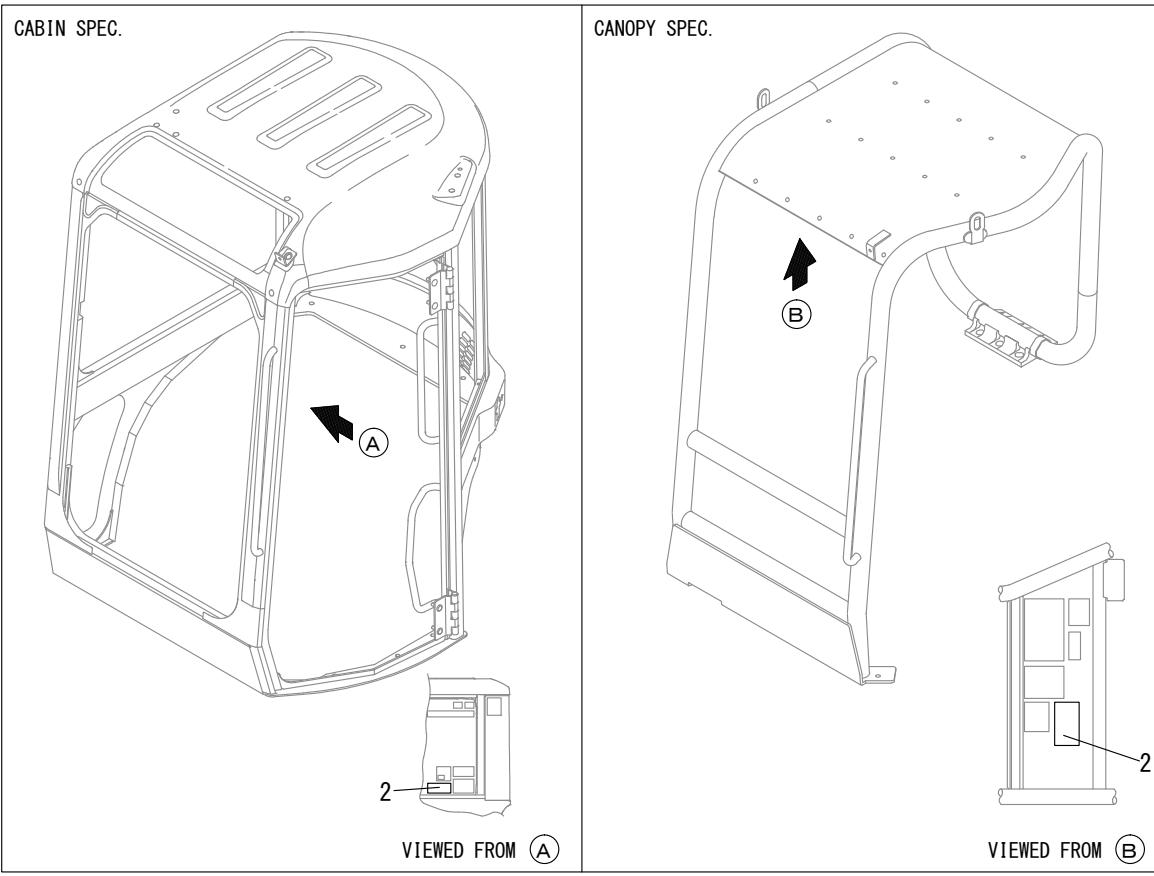
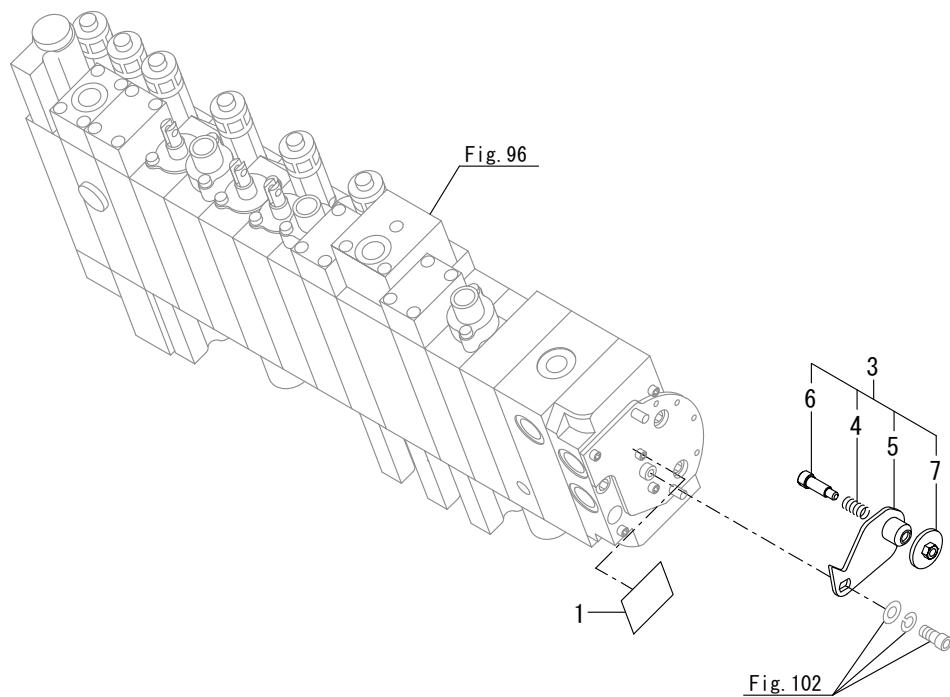
Z27 - COMPACT EXCAVATOR
FIG. 104 - REMOTE CONTROL VALVE (RIGHT)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------|------|
| 1 | 50282081 | SPACER,VALVE | 1 |
| 2 | 50283702 | VALVE ASSY,R PTO | 1 |
| 3 | 50281044 | BELLOWS | 1 |
| 4 | 50281045 | COMMAND KIT | 1 |
| 5 | 50283703 | HANDLE YT | 1 |
| 6 | 50283224 | PUSH BUTTON | 1 |
| 7 | 50281150 | CARDAN KIT | 1 |
| 8 | 50281151 | RETAINING PLATE | 1 |
| 9 | 50281152 | PLUNGER KIT | 1 |
| 10 | 50281153 | REGULATION KIT | 4 |
| 11 | 50281154 | SPRING KIT | 1 |
| 12 | 50282379 | WASHER 6, POLISHED | 3 |
| 13 | 50282502 | BOLT M 6X 16 | 2 |
| 14 | 50284095 | BOLT M6 X 20 | 3 |

Z27 - COMPACT EXCAVATOR

FIG. 105 - 2-WAY MULTI LEVER



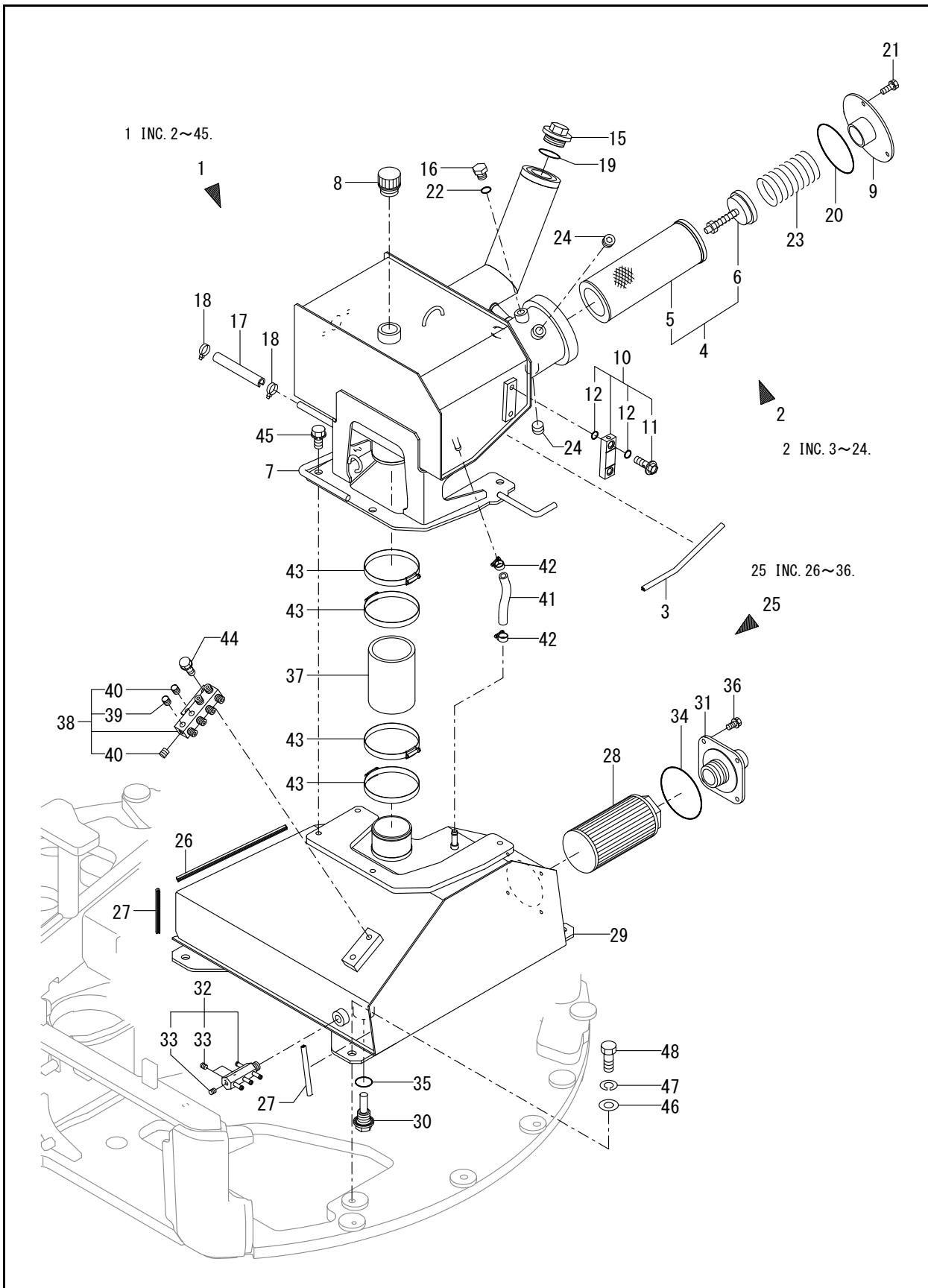
Z27 - COMPACT EXCAVATOR
FIG. 105 - 2-WAY MULTI LEVER

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------|------|
| 1 | 50283349 | LABEL,2-WAY | 1 |
| 2 | 50281037 | LABEL, 2-WAY US | 1 |
| 3 | 50283710 | MULTI V LEVER ASSY | 1 |
| 4 | 50284016 | SPRING,LOCK | 1 |
| 5 | 50283711 | LEVER ASSY | 1 |
| 6 | 50283712 | SHAFT | 1 |
| 7 | 50283713 | KNOB ASSY | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 106 - HYD. OIL TANK



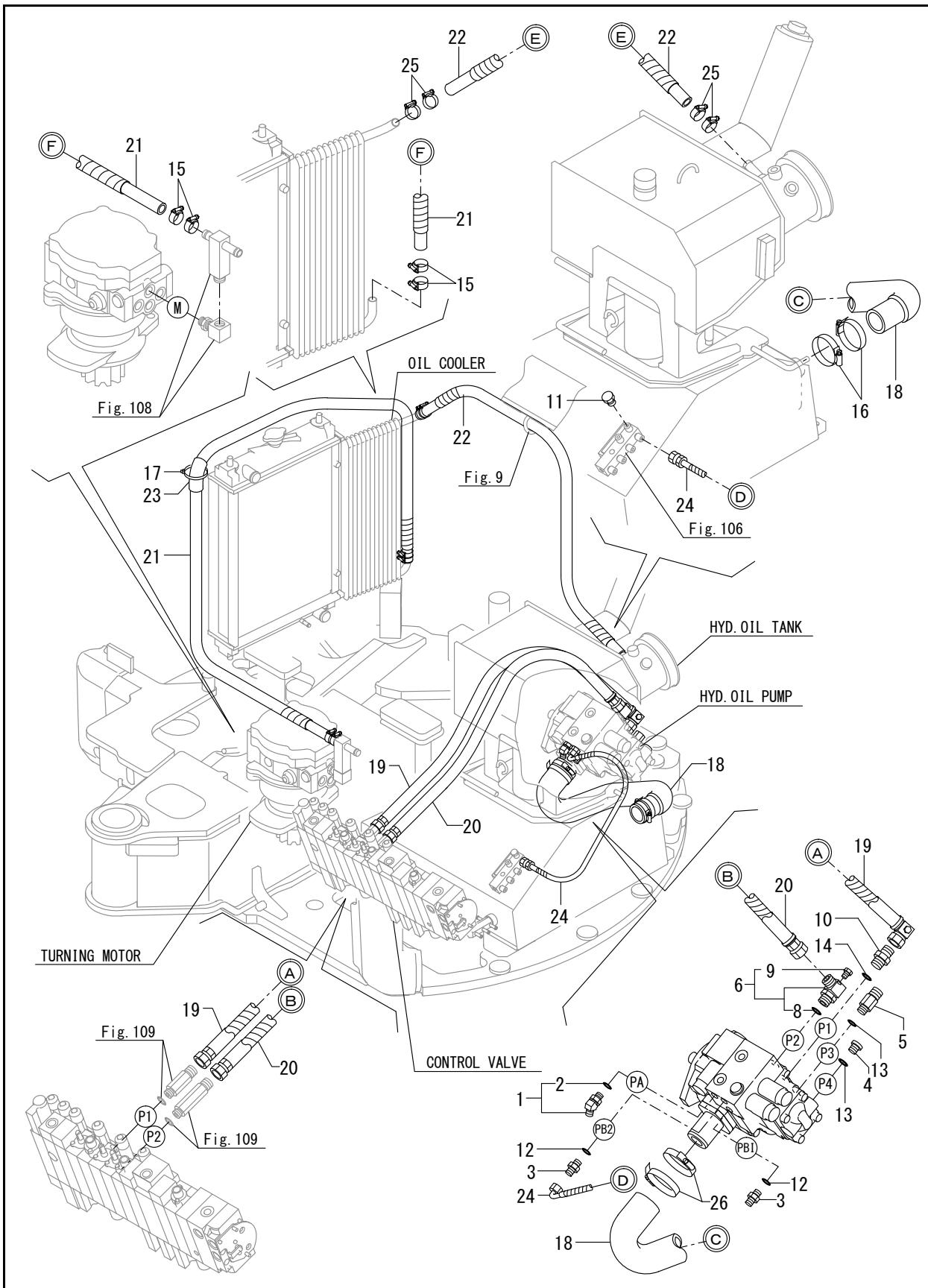
Z27 - COMPACT EXCAVATOR
FIG. 106 - HYD. OIL TANK

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50284869 | RESERVER ASSY | 1 |
| 2 | 50284871 | RESERVER,UP ASSY | 1 |
| 3 | 50284253 | TRIM 220 | 1 |
| 4 | 50282821 | FILTER ASSY, RETURN | 1 |
| 5 | 50282822 | ELEMENT | 1 |
| 6 | 50282731 | VALVE ASSY, BYPASS | 1 |
| 7 | 50284682 | RESERVOIR TANK ASSY | 1 |
| 8 | 50282906 | CAP | 1 |
| 9 | 50283723 | COVER, TANK | 1 |
| 10 | 50282909 | GAUGE ASSY | 1 |
| 11 | 50281103 | BOLT M10 | 2 |
| 12 | 50281104 | O-RING | 4 |
| 15 | 50282691 | PLUG, OIL FEED | 1 |
| 16 | 50282805 | PLUG PF1/4 | 1 |
| 17 | 50284763 | HOSE | 1 |
| 18 | 50282709 | CLAMP B | 2 |
| 19 | 50282462 | O-RING 1A P-38.0 | 1 |
| 20 | 50284083 | O-RING 1A G-105.0 | 1 |
| 21 | 50282534 | BOLT M 8X 20 | 3 |
| 22 | 50282607 | PACKING, 11.0 | 1 |
| 23 | 50284152 | SPRING, SIDE CLUTCH | 1 |
| 24 | 425-34728 | PLUG PT 3/8 | 2 |
| 25 | 50284870 | RESERVER,LOW ASSY | 1 |
| 26 | 50284235 | RUBBER 280,EDGE | 1 |
| 27 | 50281134 | MOLDING | 2 |
| 28 | 50282738 | FILTER, SUCTION | 1 |
| 29 | 50284680 | RESERVOIR, LOWER | 1 |
| 30 | 50280969 | PLUG 24 | 1 |
| 31 | 50283346 | FRANGE, SUCTION | 1 |
| 32 | 50283782 | DRAIN BLOCK | 1 |
| 33 | 425-35678 | PLUG PT 1/4 SCREW | 3 |
| 34 | 50284083 | O-RING 1A G-105.0 | 1 |
| 35 | 50282493 | O-RING 1A S-30.0 | 1 |
| 36 | 425-35026 | BOLT M8 X 25 | 4 |
| 37 | 50284683 | HOSE, RESERVOIR | 1 |
| 38 | 50283783 | PILOT BLOCK | 1 |
| 39 | 50282447 | PLUG PT1/8,SCREW | 1 |
| 40 | 425-35678 | PLUG PT 1/4 SCREW | 2 |
| 41 | 50284762 | HOSE | 1 |
| 42 | 50282426 | HOSE CLAMP 16 | 2 |
| 43 | 50284844 | HOSE CLAMP 102 | 4 |
| 44 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 45 | 50284101 | BOLT M12 X 25 | 3 |
| 46 | 50284042 | WASHER 14, POLISHED | 3 |
| 47 | 188712 | SPRING/WASHER 14 | 3 |
| 48 | 50282567 | BOLT M14X 35 PLATED | 3 |

Z27 - COMPACT EXCAVATOR

FIG. 107 - HYD. OIL PIPING (TANK-PUMP, CONTROL VALVE)



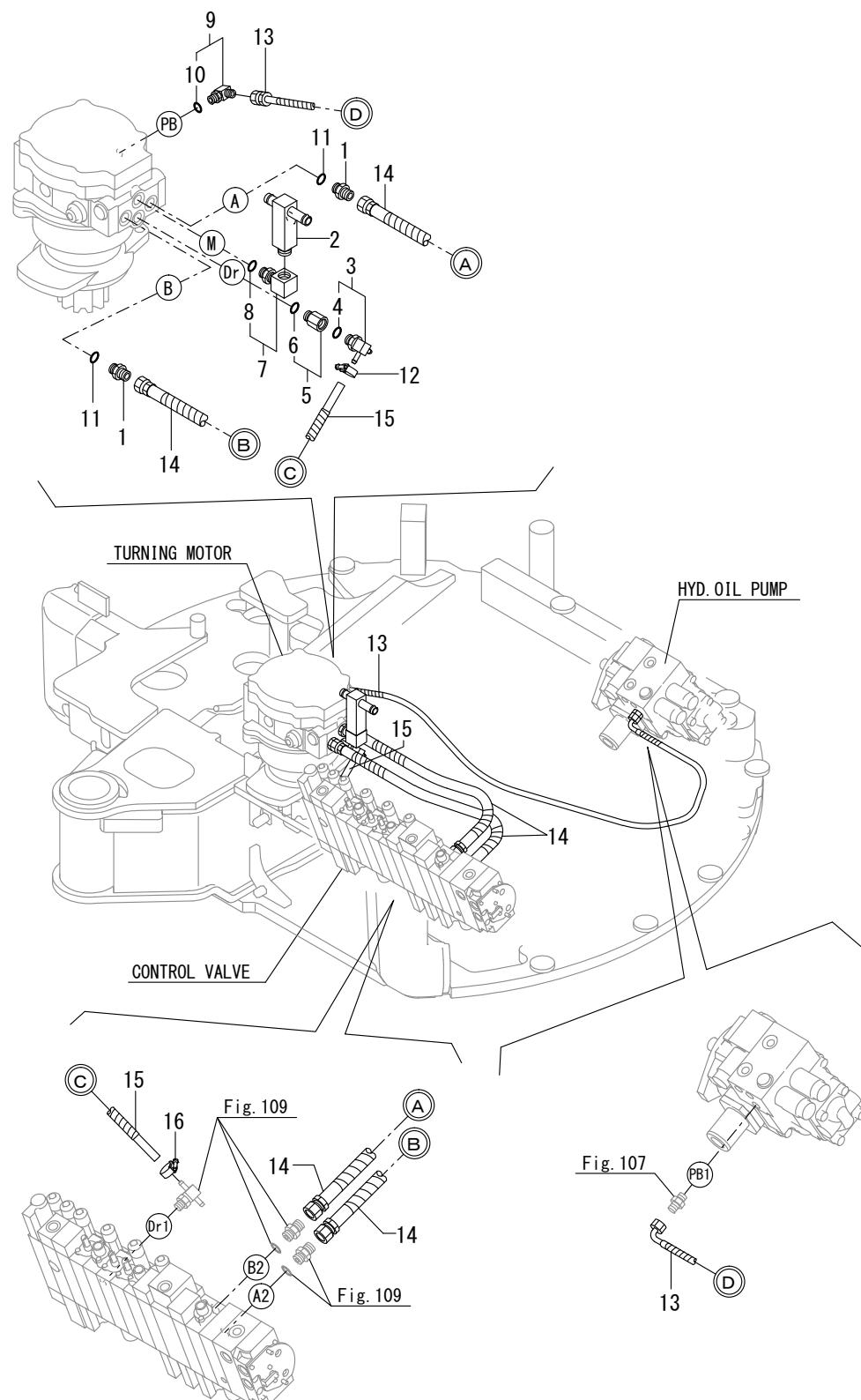
Z27 - COMPACT EXCAVATOR
FIG. 107 - HYD. OIL PIPING (TANK-PUMP, CONTROL VALVE)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--------------------|------|
| 1 | 50280905 | CONNECTOR PF1/4-45 | 1 |
| 2 | 50282607 | PACKING, 11.0 | 1 |
| 3 | 50280792 | JOINT PF1/4 | 2 |
| 4 | 50280918 | PLUG PF3/8,BLANK | 1 |
| 5 | 50284246 | CONNECTOR | 1 |
| 6 | 50285035 | CONNECTOR | 1 |
| 8 | 50282474 | O-RING 1B P-18.0 | 1 |
| 9 | 50285036 | PLUG, SCREW | 1 |
| 10 | 50280778 | CONNECTOR | 1 |
| 11 | 50282368 | CAP G 1/4 | 1 |
| 12 | 50282607 | PACKING, 11.0 | 2 |
| 13 | 50282608 | O RING P 14.0 HNBR | 2 |
| 14 | 50282609 | O RING | 1 |
| 15 | 50282428 | HOSE CLAMP 25 | 4 |
| 16 | 50284063 | CLIP, HOSE | 2 |
| 17 | 50282838 | CLIP 400,HOSE | 1 |
| 18 | 50285125 | HOSE, SUCTION | 1 |
| 19 | 50285126 | HOSE | 1 |
| 20 | 50285127 | HOSE | 1 |
| 21 | 50284725 | HOSE | 1 |
| 22 | 50284726 | HOSE | 1 |
| 23 | 50284740 | HOSE | 1 |
| 24 | 50285129 | HOSE | 1 |
| 25 | 50282428 | HOSE CLAMP 25 | 4 |
| 26 | 50284063 | CLIP, HOSE | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 108 - HYD. OIL PIPING (CONTROL VALVE-TURNING MOTOR)



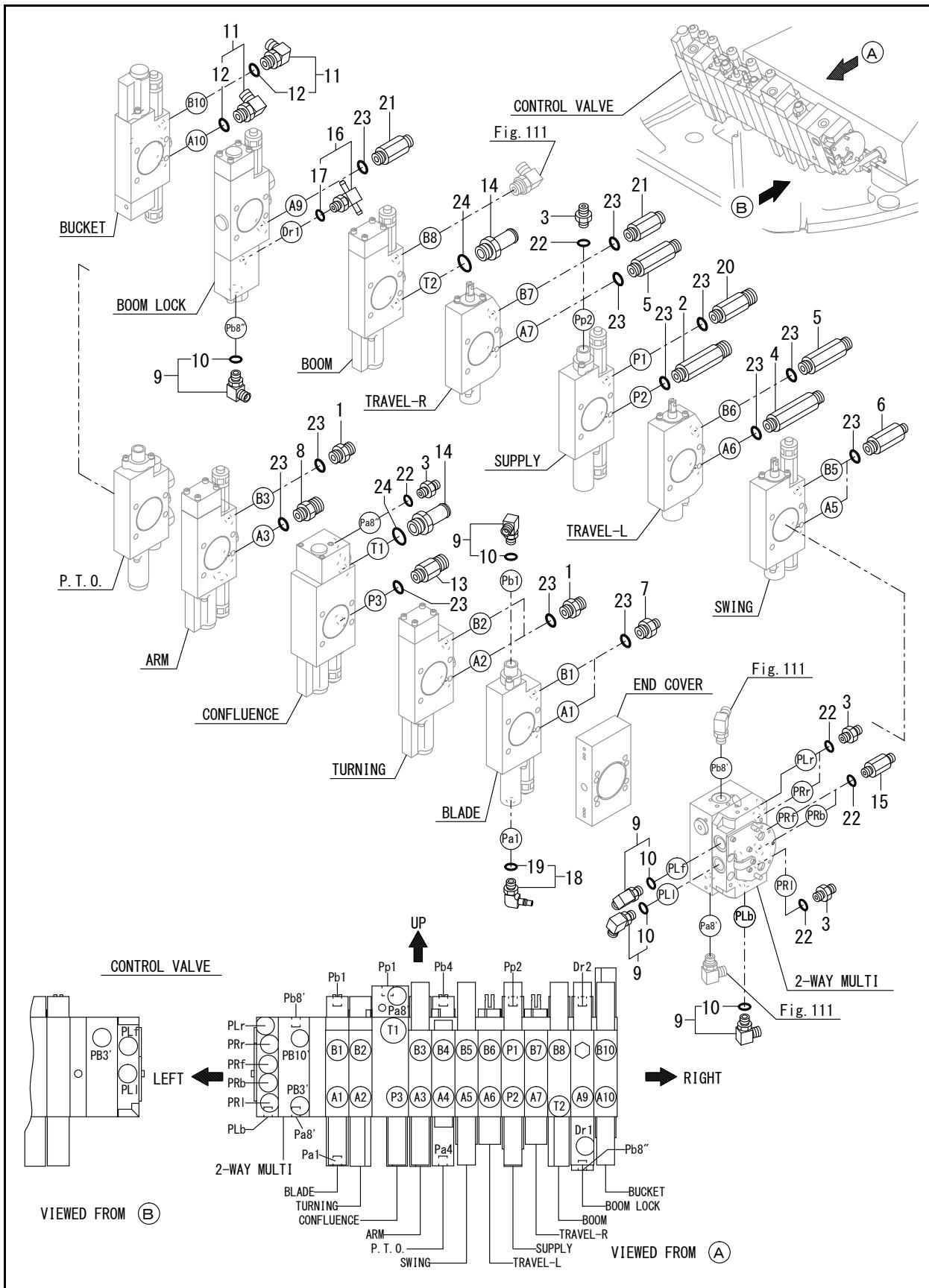
Z27 - COMPACT EXCAVATOR
FIG. 108 - HYD. OIL PIPING (CONTROL VALVE-TURNING MOTOR)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50281350 | JOINT | 2 |
| 2 | 50284685 | NIPPLE R1/2 | 1 |
| 3 | 50284776 | NIPPLE G3/8 | 1 |
| 4 | 50282471 | O-RING 1B P-14.0 | 1 |
| 5 | 50281496 | JOINT G3/8 | 1 |
| 6 | 50282471 | O-RING 1B P-14.0 | 1 |
| 7 | 50284365 | ELBOW PF3/8-PT1/2 | 1 |
| 8 | 50282471 | O-RING 1B P-14.0 | 1 |
| 9 | 50280813 | CONNECTOR ASSY, 02FF | 1 |
| 10 | 50282607 | PACKING, 11.0 | 1 |
| 11 | 50282608 | O RING P 14.0 HNBR | 2 |
| 12 | 425-34918 | CLAMP 13 | 1 |
| 13 | 50284742 | HOSE | 1 |
| 14 | 50284720 | HOSE | 2 |
| 15 | 50284728 | HOSE | 1 |
| 16 | 425-34918 | CLAMP 13 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 109 - HYD. OIL PIPING (CONTROL VALVE : FITTING)



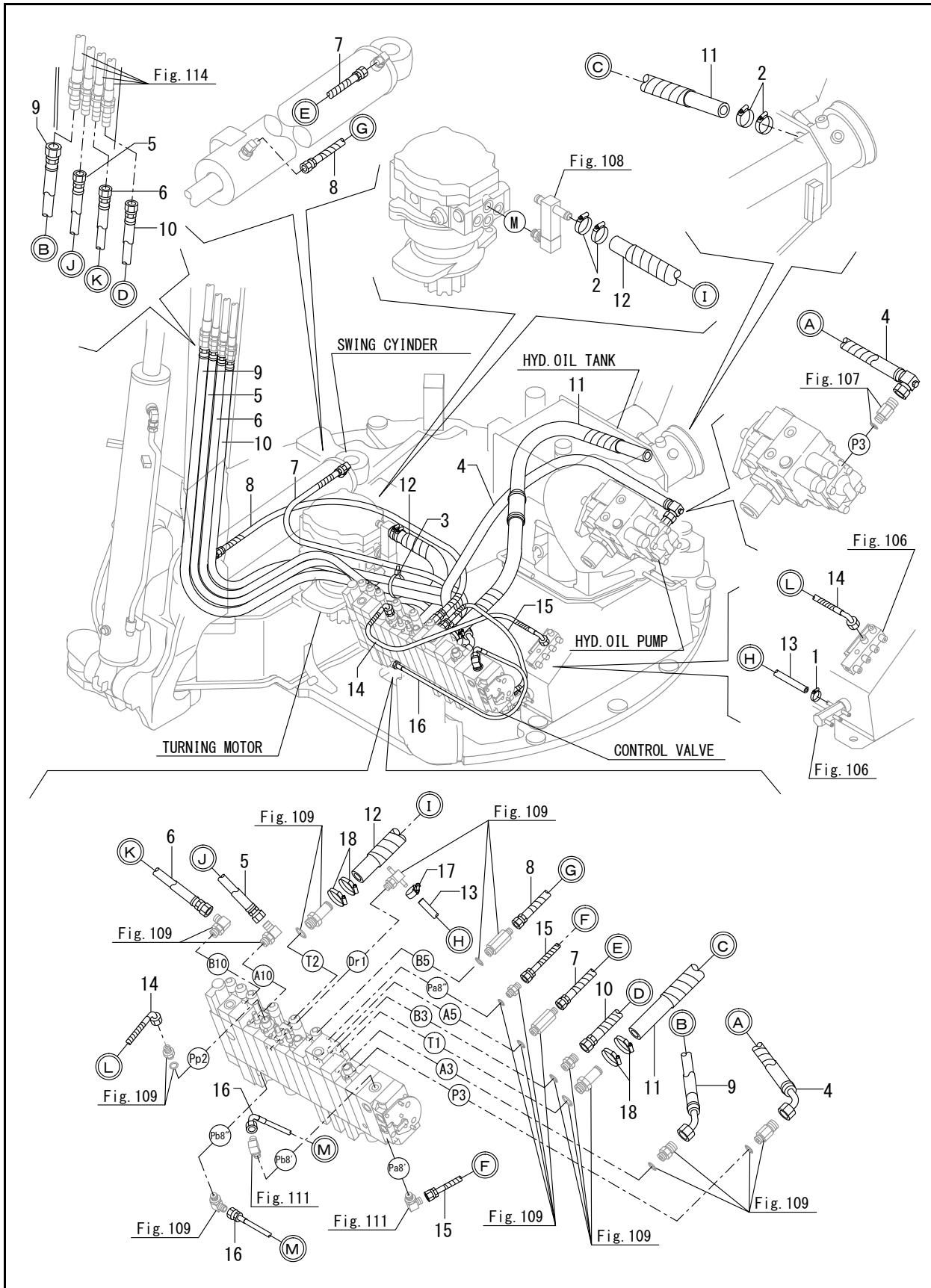
Z27 - COMPACT EXCAVATOR
FIG. 109 - HYD. OIL PIPING (CONTROL VALVE : FITTING)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50281350 | JOINT | 3 |
| 2 | 50284686 | CONNECTOR G3/8-1/2 | 1 |
| 3 | 50280792 | JOINT PF1/4 | 5 |
| 4 | 50284687 | CONNECTOR G3/8-3/8 | 1 |
| 5 | 50282783 | ADAPTER | 2 |
| 6 | 50284245 | CONNECTOR | 2 |
| 7 | 50282716 | CONNECTOR | 2 |
| 8 | 50282816 | CONNECTOR | 1 |
| 9 | 50280813 | CONNECTOR ASSY, 02FF | 5 |
| 10 | 50282607 | PACKING, 11.0 | 5 |
| 11 | 50280823 | JOINT 90-3/8 ASSY | 2 |
| 12 | 50282471 | O-RING 1B P-14.0 | 2 |
| 13 | 50284246 | CONNECTOR | 1 |
| 14 | 50283776 | NIPPLE G1/2 | 2 |
| 15 | 50280919 | CONNECTOR 1/4-1/4 | 2 |
| 16 | 50281490 | NIPPLE G1/4 | 1 |
| 17 | 50282607 | PACKING, 11.0 | 1 |
| 18 | 50283779 | ELBOW,QUICK | 1 |
| 19 | 50282607 | PACKING, 11.0 | 1 |
| 20 | 50284240 | CONNECTOR PF3/8-1/2 | 1 |
| 21 | 50282692 | ADAPTER 64 | 2 |
| 22 | 50282607 | PACKING, 11.0 | 7 |
| 23 | 50282608 | O RING P 14.0 HNBR | 16 |
| 24 | 50282609 | O RING | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 110 - HYD. OIL PIPING (CONTROL VALVE - BOOM, SWING)



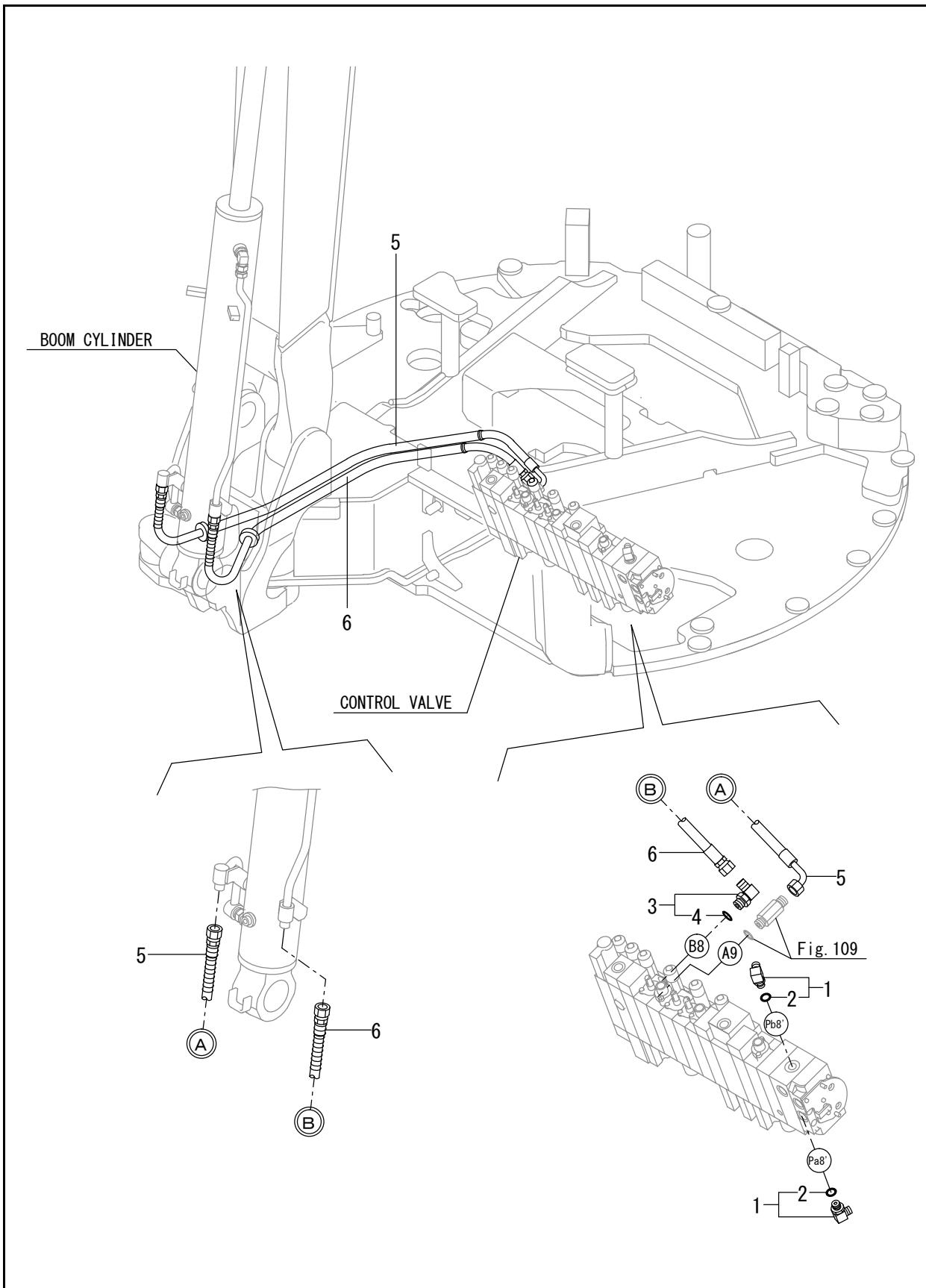
Z27 - COMPACT EXCAVATOR**FIG. 110 - HYD. OIL PIPING (CONTROL VALVE - BOOM, SWING)**

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|-----------------------|------|
| 1 | 425-34918 | PLUNGER ADAPTER CLAMP | 1 |
| 2 | 50282428 | HOSE CLAMP 25 | 4 |
| 3 | 50282352 | BAND | 1 |
| 4 | 50284708 | HOSE | 1 |
| 5 | 50284709 | HOSE | 1 |
| 6 | 50284710 | HOSE | 1 |
| 7 | 50284716 | HOSE | 1 |
| 8 | 50284717 | HOSE | 1 |
| 9 | 50284718 | HOSE | 1 |
| 10 | 50284719 | HOSE | 1 |
| 11 | 50284723 | HOSE | 1 |
| 12 | 50285128 | HOSE | 1 |
| 13 | 50284729 | HOSE | 1 |
| 14 | 50284743 | HOSE | 1 |
| 15 | 50283848 | HOSE | 1 |
| 16 | 50283849 | HOSE | 1 |
| 17 | 425-34918 | PLUNGER ADAPTER CLAMP | 1 |
| 18 | 50282428 | HOSE CLAMP 25 | 4 |

Z27 - COMPACT EXCAVATOR

FIG. 111 - HYD. OIL PIPING (CONTROL VALVE - BOOM CYLINDER)



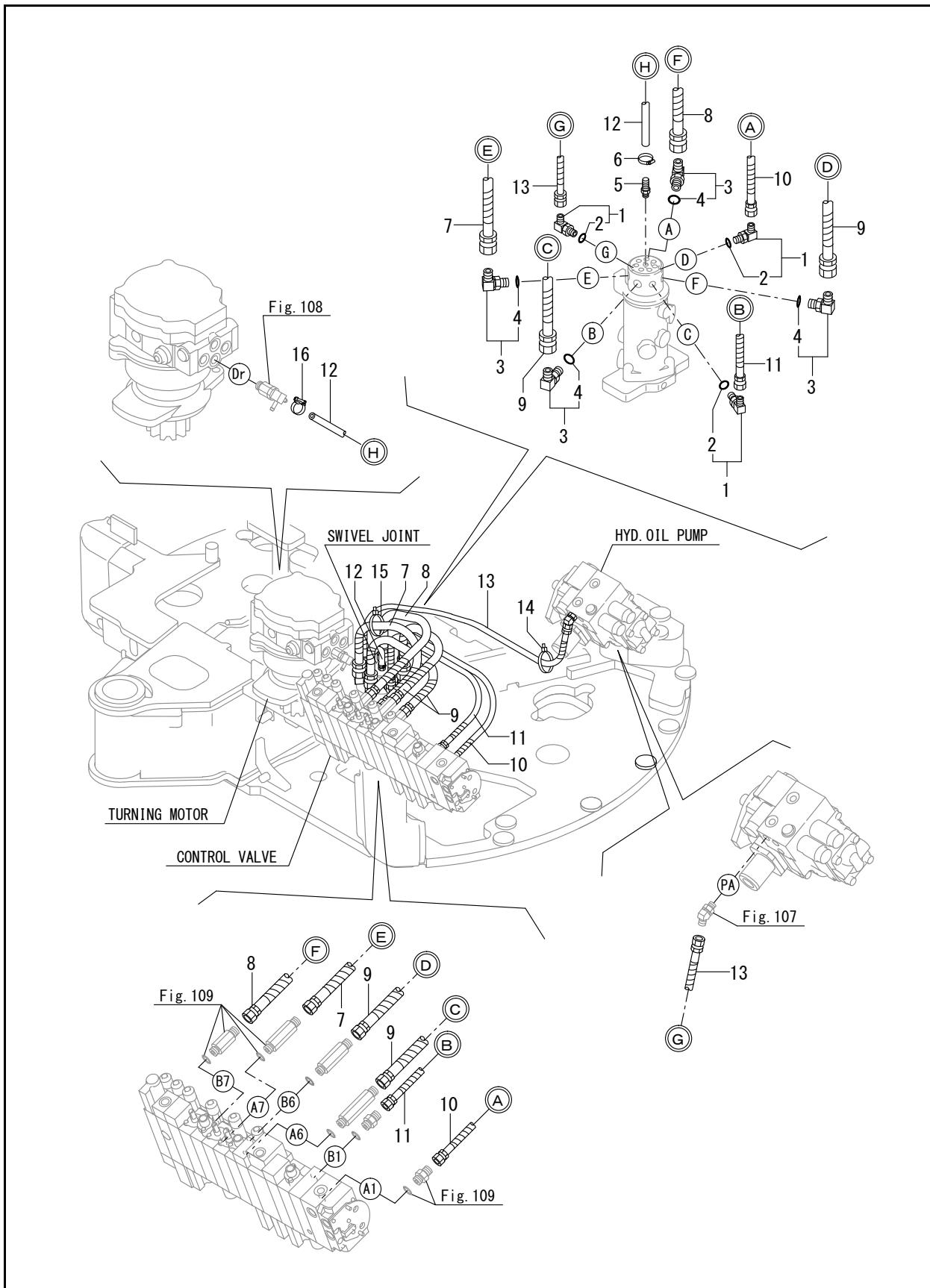
Z27 - COMPACT EXCAVATOR**FIG. 111 - HYD. OIL PIPING (CONTROL VALVE - BOOM CYLINDER)**

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50280813 | CONNECTOR ASSY, 02FF | 2 |
| 2 | 50282607 | PACKING, 11.0 | 2 |
| 3 | 50280823 | JOINT 90-3/8 ASSY | 1 |
| 4 | 50282471 | O-RING 1B P-14.0 | 1 |
| 5 | 50284711 | HOSE | 1 |
| 6 | 50284712 | HOSE | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 112 - HYD. OIL PIPING (CONTROL VALVE - SWIVEL JOINT)



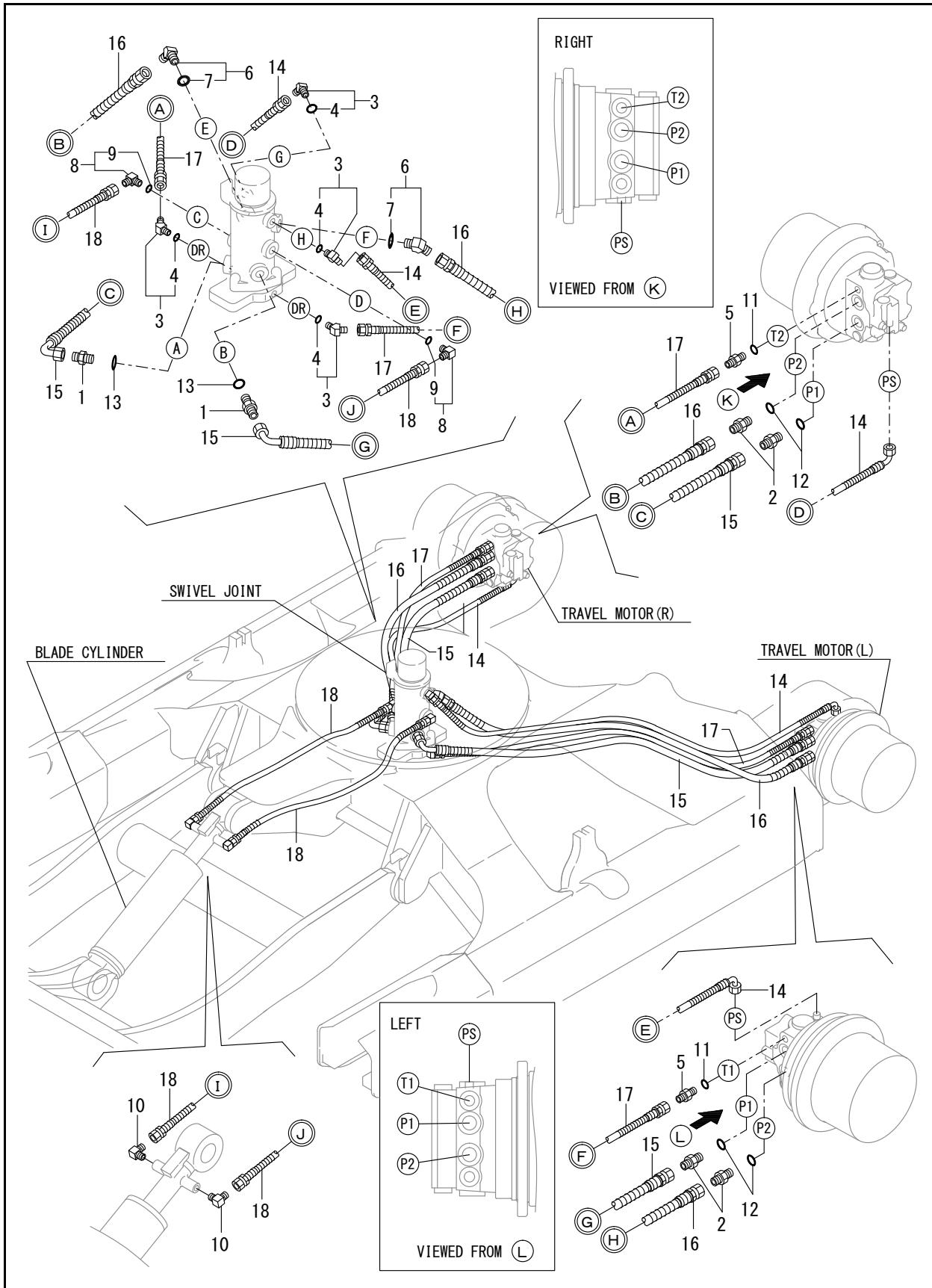
Z27 - COMPACT EXCAVATOR**FIG. 112 - HYD. OIL PIPING (CONTROL VALVE - SWIVEL JOINT)**

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50280813 | CONNECTOR ASSY, 02FF | 3 |
| 2 | 50282607 | PACKING, 11.0 | 3 |
| 3 | 50280823 | JOINT 90-3/8 ASSY | 4 |
| 4 | 50282471 | O-RING 1B P-14.0 | 4 |
| 5 | 50282732 | NIPPLE | 1 |
| 6 | 425-34918 | CLAMP 13 | 1 |
| 7 | 50284713 | HOSE | 1 |
| 8 | 50284714 | HOSE | 1 |
| 9 | 50284715 | HOSE | 2 |
| 10 | 50284721 | HOSE | 1 |
| 11 | 50284722 | HOSE | 1 |
| 12 | 50284727 | HOSE | 1 |
| 13 | 50285130 | HOSE | 1 |
| 14 | 50282709 | CLAMP B | 1 |
| 15 | 50282709 | CLAMP B | 1 |
| 16 | 425-34918 | CLAMP 13 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 113 - HYD. OIL PIPING (TRACK FRAME)

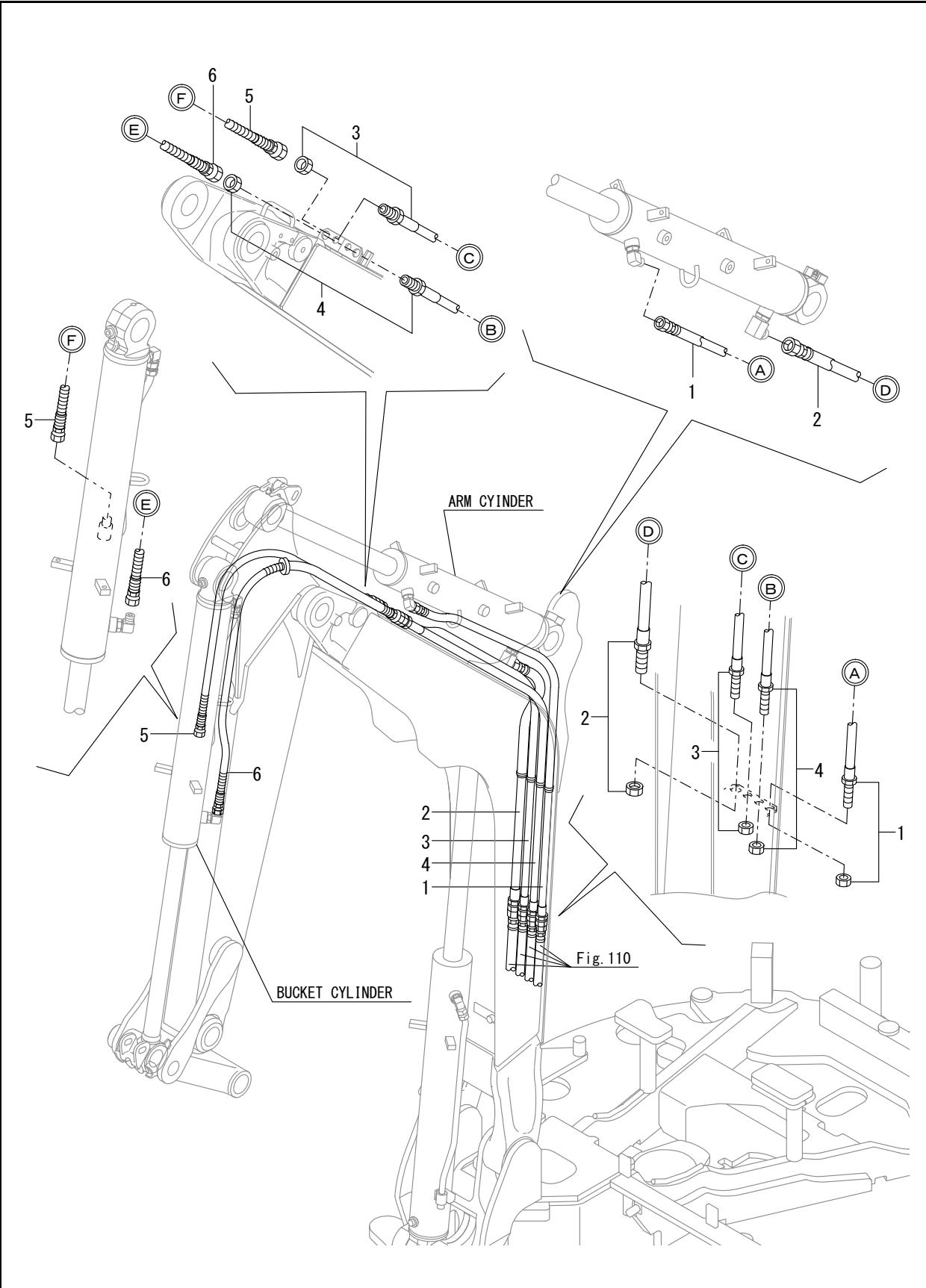


Z27 - COMPACT EXCAVATOR
FIG. 113 - HYD. OIL PIPING (TRACK FRAME)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50281350 | JOINT | 2 |
| 2 | 50281350 | JOINT | 4 |
| 3 | 50280905 | CONNECTOR PF1/4-45 | 4 |
| 4 | 50282607 | PACKING, 11.0 | 4 |
| 5 | 50280792 | JOINT PF1/4 | 2 |
| 6 | 50283270 | ADJUST ELBOW 45 | 2 |
| 7 | 50282471 | O-RING 1B P-14.0 | 2 |
| 8 | 50280813 | CONNECTOR ASSY, 02FF | 2 |
| 9 | 50282607 | PACKING, 11.0 | 2 |
| 10 | 50282441 | JOINT 90RG11/4 | 2 |
| 11 | 50282607 | PACKING, 11.0 | 2 |
| 12 | 50282608 | O RING P 14.0 HNBR | 4 |
| 13 | 50282608 | O RING P 14.0 HNBR | 2 |
| 14 | 50284989 | HOSE | 2 |
| 15 | 50284990 | HOSE | 2 |
| 16 | 50284991 | HOSE | 2 |
| 17 | 50284992 | HOSE | 2 |
| 18 | 50284250 | HOSE | 2 |

Z27 - COMPACT EXCAVATOR
FIG. 114 - HYD. OIL PIPING (BOOM)



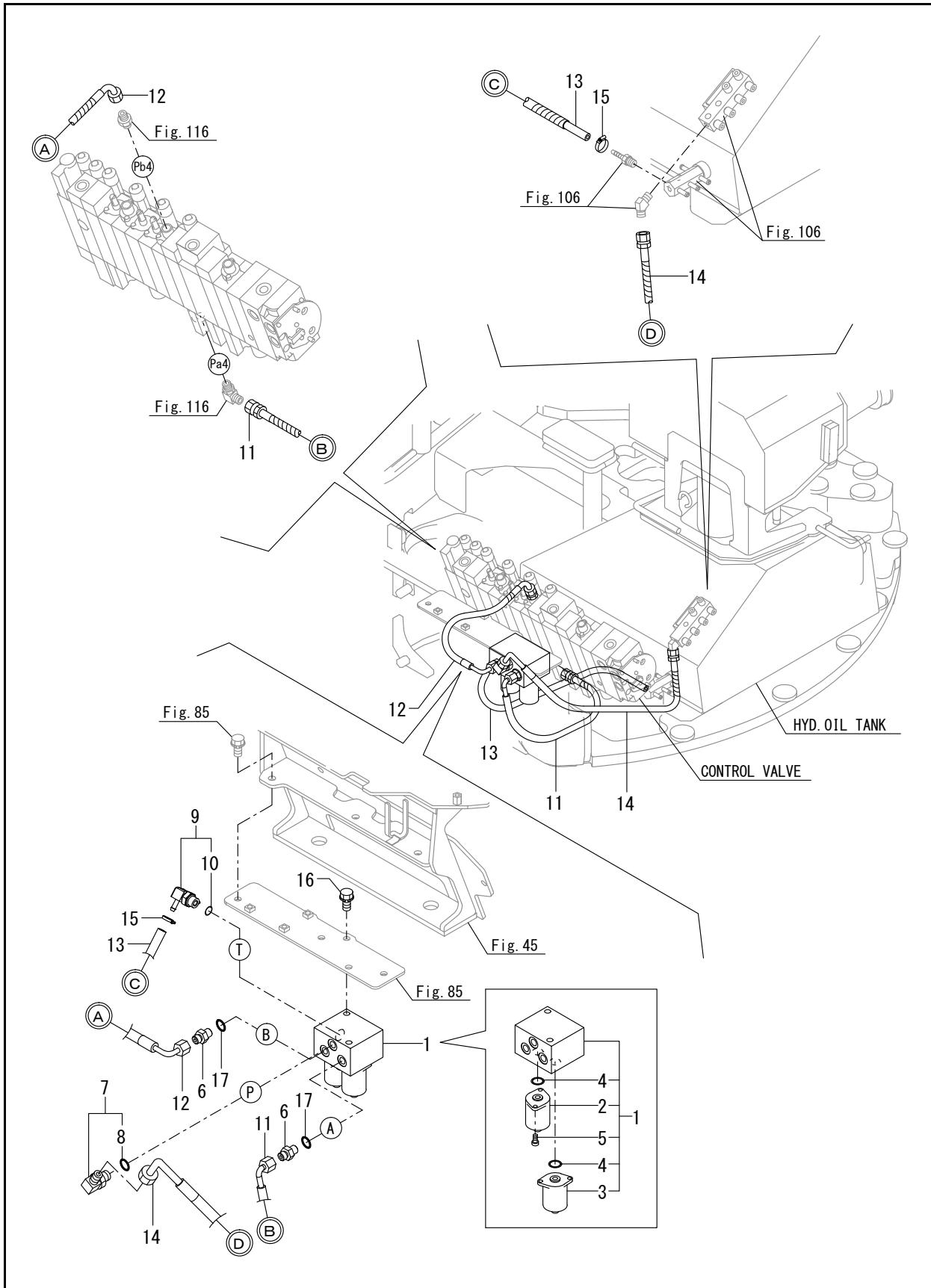
Z27 - COMPACT EXCAVATOR
FIG. 114 - HYD. OIL PIPING (BOOM)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|-------------|------|
| 1 | 50285091 | HOSE | 1 |
| 2 | 50285090 | HOSE | 1 |
| 3 | 50285092 | HOSE | 1 |
| 4 | 50285093 | HOSE | 1 |
| 5 | 50285145 | HOSE | 1 |
| 6 | 50285146 | HOSE | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 115 - HYD. OIL PIPING (P.T.O. : SOLENOID VALVE-CONTROL VALVE)



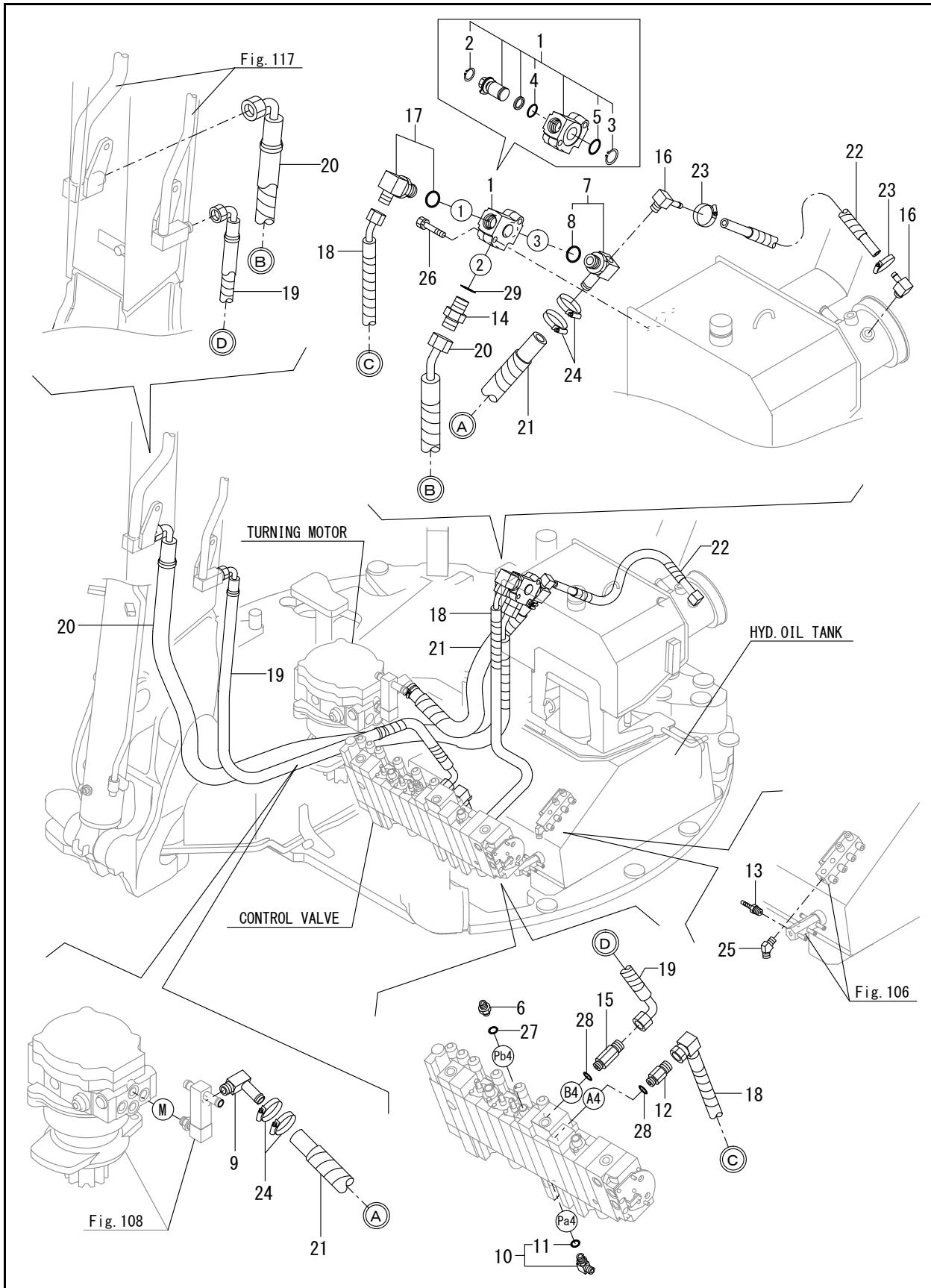
Z27 - COMPACT EXCAVATOR
FIG. 115 - HYD. OIL PIPING (P.T.O. : SOLENOID VALVE-CONTROL VALVE)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50283986 | VALVE ASSY,SOL PTO | 1 |
| 2 | 50283987 | SOLENOID | 1 |
| 3 | 50283988 | SOLENOID | 1 |
| 4 | 425-34744 | O-RING 1A P-16.0 | 2 |
| 5 | 197813 | BOLT M5X10 | 4 |
| 6 | 50280792 | JOINT PF1/4 | 2 |
| 7 | 50280813 | CONNECTOR ASSY, 02FF | 1 |
| 8 | 50282607 | PACKING, 11.0 | 1 |
| 9 | 50280923 | NIPPLE | 1 |
| 10 | 50282470 | O-RING 1B P-11.0 | 1 |
| 11 | 50283992 | HOSE F403BC045S | 1 |
| 12 | 50283993 | HOSE F403CC028S | 1 |
| 13 | 50283994 | HOSE G804YY050S | 1 |
| 14 | 50283855 | HOSE | 1 |
| 15 | 425-34918 | CLAMP 13 | 2 |
| 16 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 17 | 50282607 | PACKING, 11.0 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 116 - HYD. OIL PIPING (P.T.O. : CONTROL VALVE-BOOM)



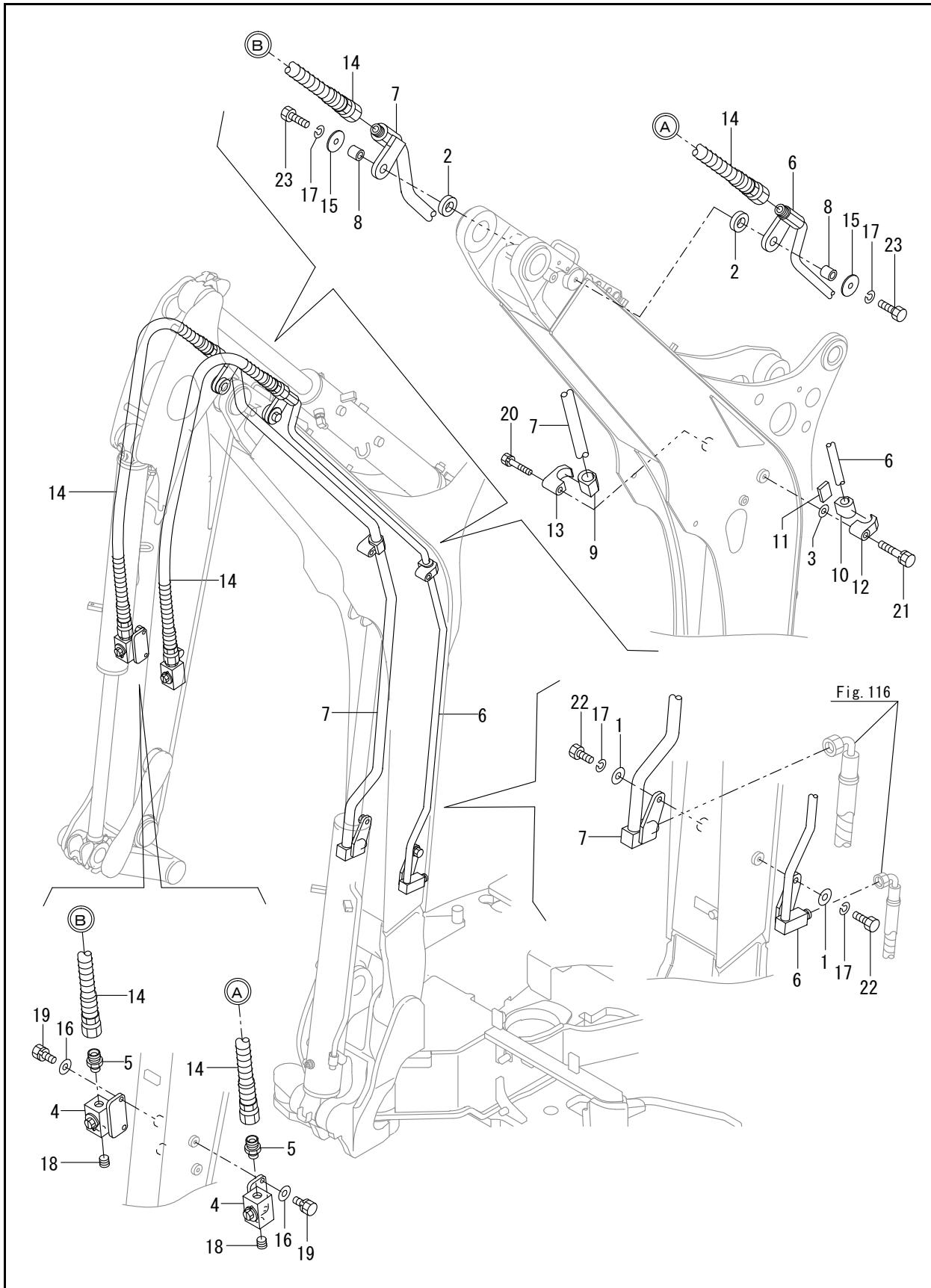
Z27 - COMPACT EXCAVATOR**FIG. 116 - HYD. OIL PIPING (P.T.O. : CONTROL VALVE-BOOM)**

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50283667 | VALVE ASSY,SELECOR | 1 |
| 2 | 50282398 | CIRCLIP 21 | 1 |
| 3 | 50282399 | CIRCLIP 25S | 1 |
| 4 | 50282476 | O-RING 1B P 21 | 1 |
| 5 | 50282478 | O-RING 1B P-25.0 | 1 |
| 6 | 50280792 | JOINT PF1/4 | 1 |
| 7 | 50284688 | ELBOW NIPPLE 90G3/8 | 1 |
| 8 | 50282477 | O-RING 1B P-24.0 | 1 |
| 9 | 50281105 | ELBOW 90 1/2 | 1 |
| 10 | 50280813 | CONNECTOR ASSY, 02FF | 1 |
| 11 | 50282607 | PACKING, 11.0 | 1 |
| 12 | 50284246 | CONNECTOR | 1 |
| 13 | 50282732 | NIPPLE | 1 |
| 14 | 50280824 | JOINT PF3/4 | 1 |
| 15 | 50284240 | CONNECTOR PF3/8-1/2 | 1 |
| 16 | 50280903 | ELBOW | 2 |
| 17 | 50284401 | ELBOW ASSY | 1 |
| 18 | 50284748 | HOSE | 1 |
| 19 | 50284749 | HOSE | 1 |
| 20 | 50284750 | HOSE | 1 |
| 21 | 50284751 | HOSE | 1 |
| 22 | 50284752 | HOSE | 1 |
| 23 | 50282426 | HOSE CLAMP 16 | 2 |
| 24 | 50282428 | HOSE CLAMP 25 | 4 |
| 25 | 50282443 | JOINT 45RG11/4 | 1 |
| 26 | 50282521 | BOLT M10X 50 | 2 |
| 27 | 50282607 | PACKING, 11.0 | 1 |
| 28 | 50282608 | O RING P 14.0 HNBR | 2 |
| 29 | 50282610 | PACKING, 24.0 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 117 - HYD. OIL PIPING (P.T.O. : BOOM-ARM END)



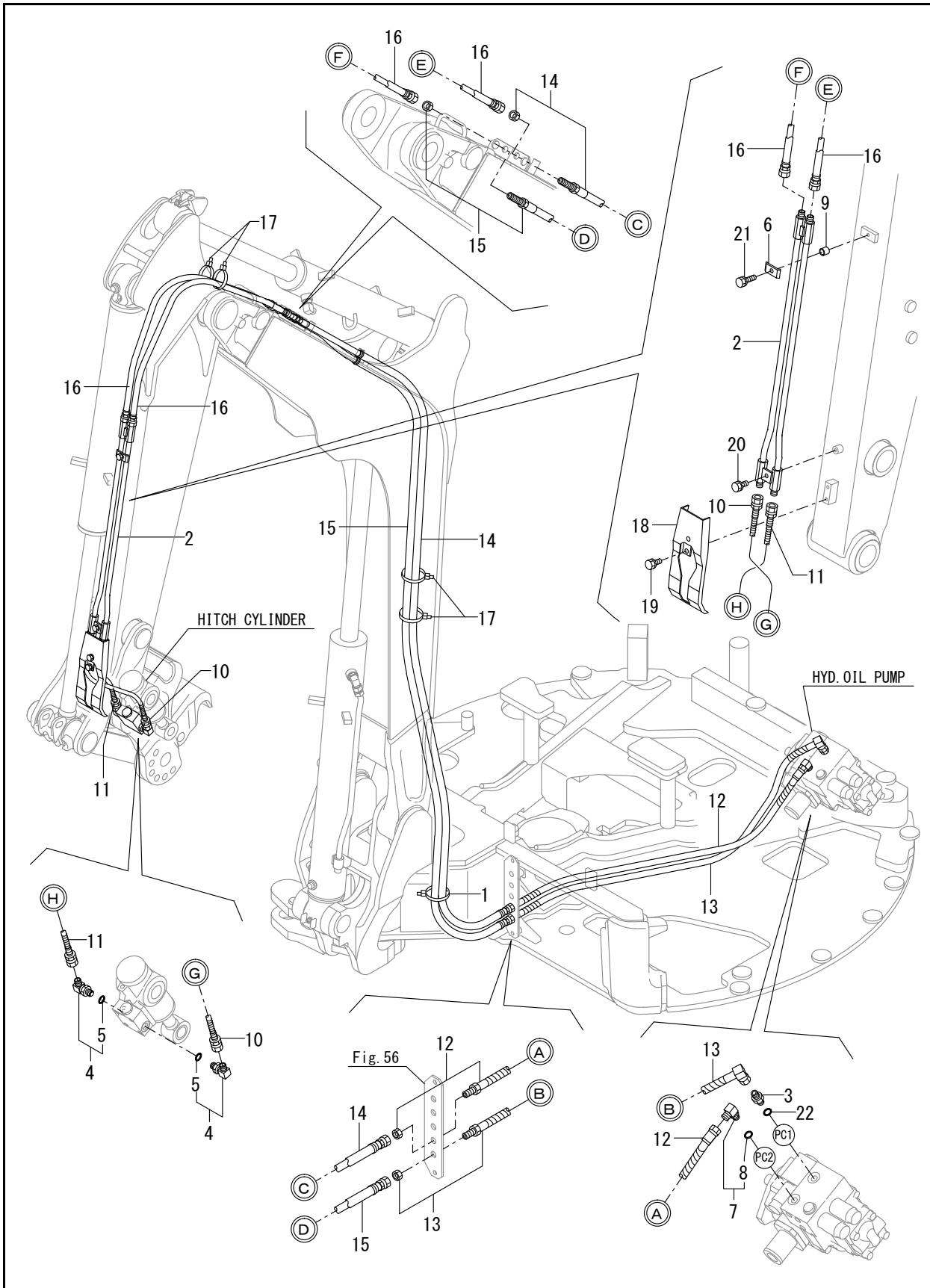
Z27 - COMPACT EXCAVATOR
FIG. 117 - HYD. OIL PIPING (P.T.O. : BOOM-ARM END)

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50282741 | WASHER, 32X12.5 | 2 |
| 2 | 50283915 | PATT | 2 |
| 3 | 50282756 | WASHER | 1 |
| 4 | 50286177 | STOP VALVE | 2 |
| 5 | 50284220 | ADAPTER 1/2-3/4 | 2 |
| 6 | 50286431 | PTO TUBE LT | 1 |
| 7 | 50286433 | PTO TUBE RT | 1 |
| 8 | 50283787 | COLLER 12.2X20X20 | 2 |
| 9 | 50284691 | RUBBER (PTO TUBE R) | 1 |
| 10 | 50284692 | RUBBER (PTO TUBE L) | 1 |
| 11 | 50284693 | PLATE,RUBBER PTO | 1 |
| 12 | 50286167 | CLAMP, 3/4 | 1 |
| 13 | 50286171 | CLAMP | 1 |
| 14 | 50285098 | HOSE G212BB086W | 2 |
| 15 | 50282739 | SPACER | 2 |
| 16 | 50282377 | WASHER 10 | 4 |
| 17 | 425-34902 | SPRING WASHER 12 | 4 |
| 18 | 50284069 | PLUG PT1/2,SCREW | 2 |
| 19 | 50282516 | BOLT W/WASHER M10X25 | 4 |
| 20 | 50282528 | BOLT M12X 60 | 1 |
| 21 | 50282528 | BOLT M12X 60 | 1 |
| 22 | 50284108 | BOLT M12 X 30 | 2 |
| 23 | 50284109 | BOLT 10.9 M12 X 4 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 119 - HYD. OIL PIPING (QUICK COUPLER)



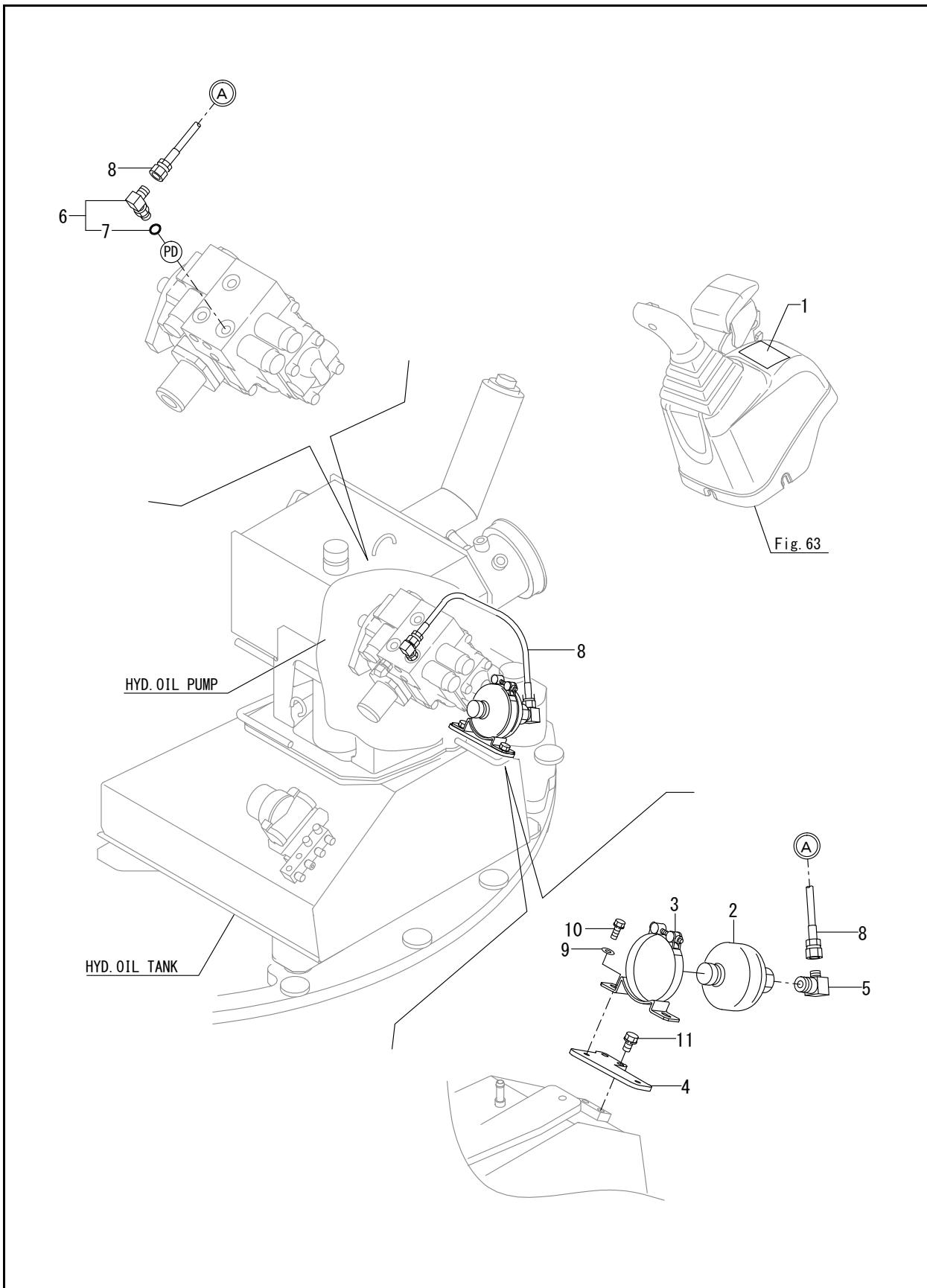
Z27 - COMPACT EXCAVATOR
FIG. 119 - HYD. OIL PIPING (QUICK COUPLER)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50282352 | BAND | 2 |
| 2 | 50286219 | HITCH TUBE | 1 |
| 3 | 50280792 | JOINT PF1/4 | 1 |
| 4 | 50283278 | ELBOW PF1/4-PF1/4 | 2 |
| 5 | 50282470 | O-RING 1B P-11.0 | 2 |
| 6 | 50280772 | PLATE | 1 |
| 7 | 50280813 | CONNECTOR ASSY, 02FF | 1 |
| 8 | 50282607 | PACKING, 11.0 | 1 |
| 9 | 50280808 | COLLAR 9X11 | 1 |
| 10 | 50284418 | HOSE | 1 |
| 11 | 50284419 | HOSE | 1 |
| 12 | 50284756 | HOSE | 1 |
| 13 | 50284757 | HOSE | 1 |
| 14 | 50285099 | HOSE | 1 |
| 15 | 50285100 | HOSE | 1 |
| 16 | 50285147 | HOSE | 2 |
| 17 | 50282709 | CLAMP B | 4 |
| 18 | 50286221 | ARM COVER | 1 |
| 19 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 20 | 50282506 | BOLT W/WASHER M8X16 | 1 |
| 21 | 50282508 | BOLT M 8X 25 | 1 |
| 22 | 50282607 | PACKING, 11.0 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 121 - ACCUMULATOR



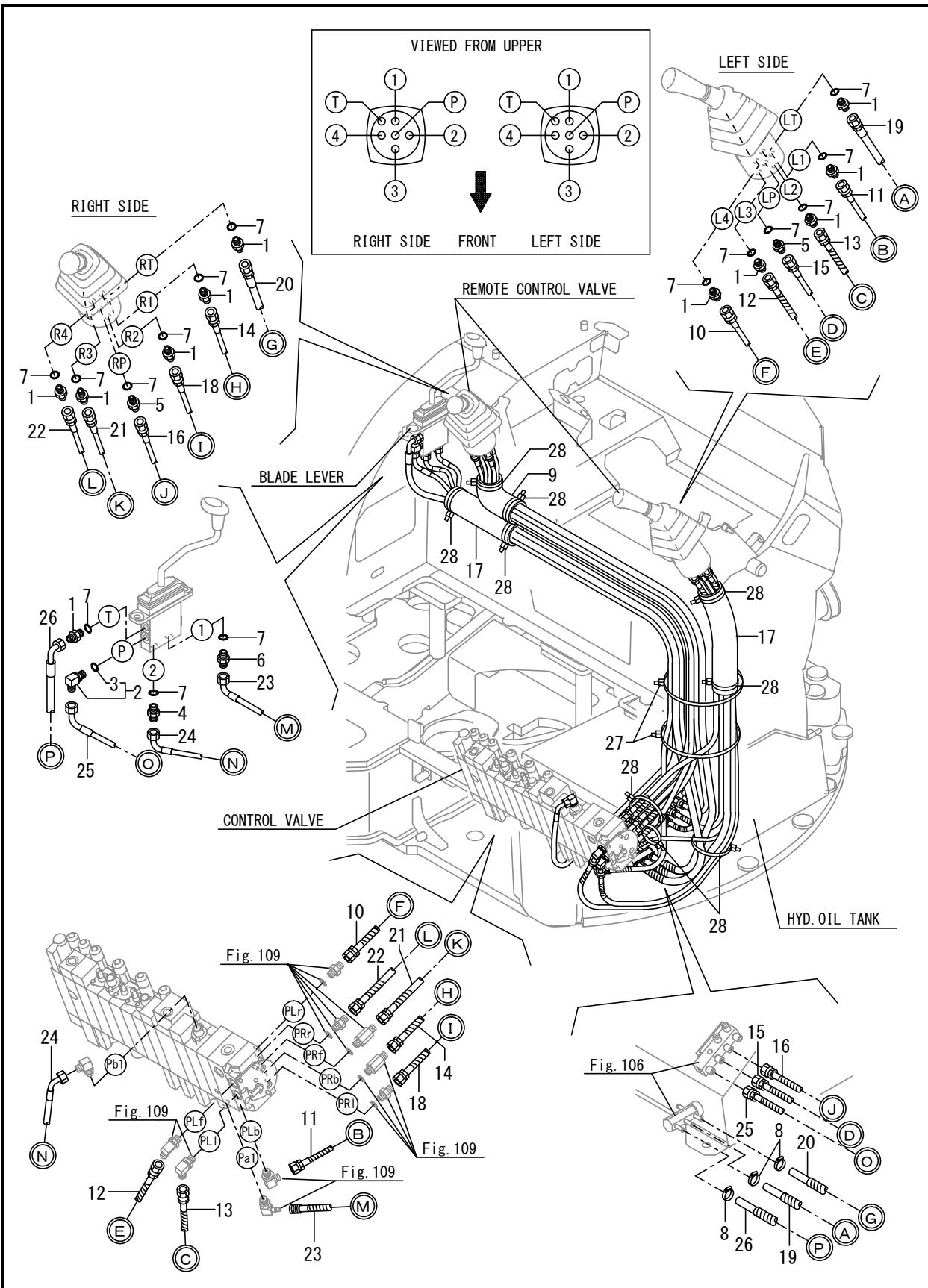
Z27 - COMPACT EXCAVATOR
FIG. 121 - ACCUMULATOR

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---------------------|------|
| 1 | 50283362 | LABEL,PTO EX | 1 |
| 2 | 50281200 | ACCUMULATOR | 1 |
| 3 | 50281201 | CLAMP | 1 |
| 4 | 50284684 | BRACKET | 1 |
| 5 | 50281206 | CONNECTOR | 1 |
| 6 | 50280815 | CONNECTOR 3/8-1/4L | 1 |
| 7 | 50282471 | O-RING 1B P-14.0 | 1 |
| 8 | 50284395 | HOSE | 1 |
| 9 | 50282380 | WASHER 8, POLISHED | 2 |
| 10 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 11 | 50282514 | BOLT M10X 16 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 122 - CONTROL PIPING



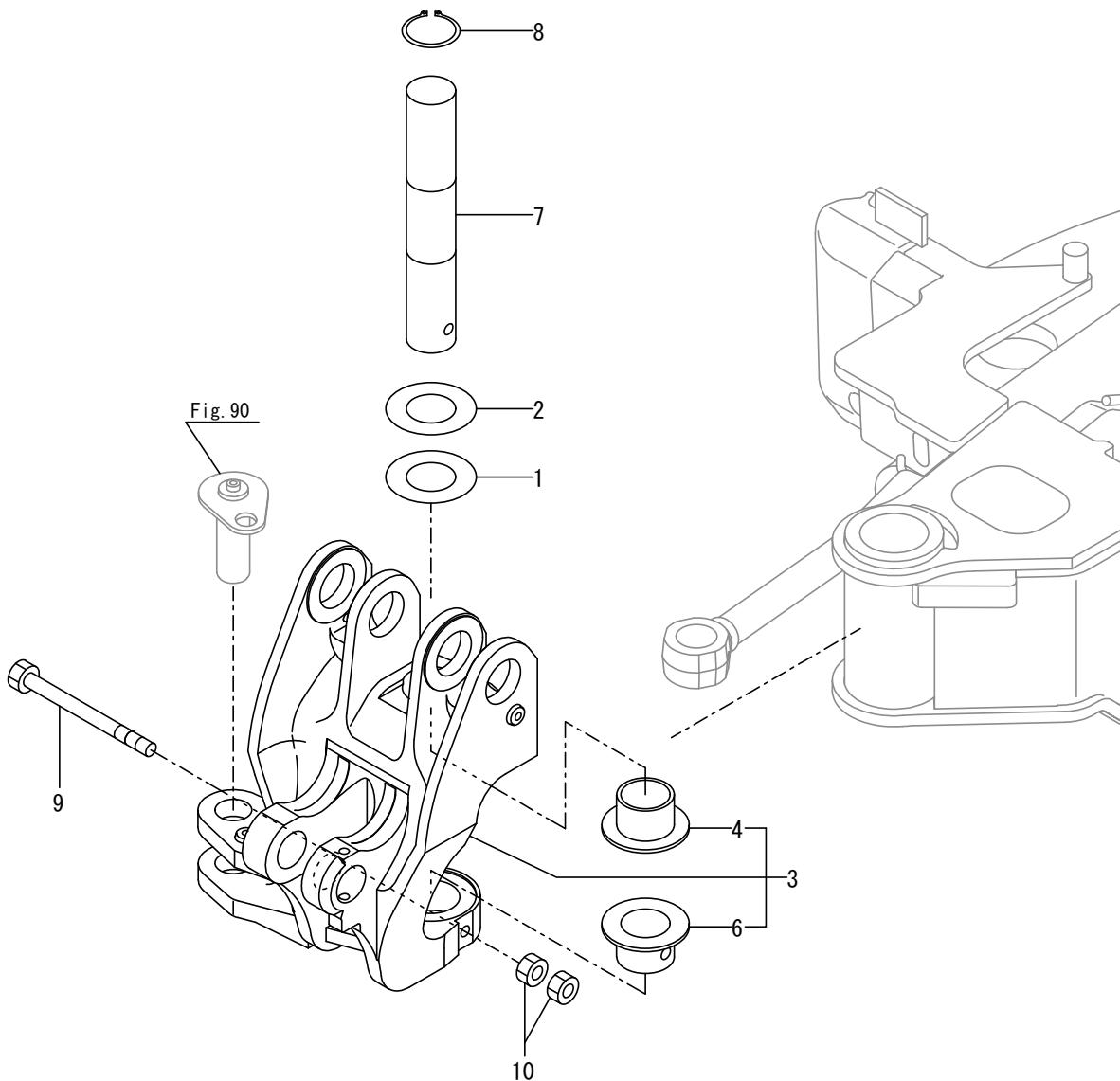
Z27 - COMPACT EXCAVATOR
FIG. 122 - CONTROL PIPING

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|--------------------|------|
| 1 | 50280792 | JOINT PF1/4 | 11 |
| 2 | 50283278 | ELBOW PF1/4-PF1/4 | 1 |
| 3 | 50282470 | O-RING 1B P-11.0 | 1 |
| 4 | 50281488 | CONNECTOR G1/4-1.0 | 1 |
| 5 | 50281106 | CONNECTOR PF1/4 | 2 |
| 6 | 50280890 | JOINT PF1/4-0.7 | 1 |
| 7 | 50282607 | PACKING, 11.0 | 15 |
| 8 | 425-34918 | CLAMP 13 | 3 |
| 9 | 50282972 | SOUND SHIELD,HOSE | 1 |
| 10 | 50283837 | HOSE | 1 |
| 11 | 50283838 | HOSE | 1 |
| 12 | 50283839 | HOSE | 1 |
| 13 | 50283840 | HOSE | 1 |
| 14 | 50283841 | HOSE | 1 |
| 15 | 50283842 | HOSE | 1 |
| 16 | 50283843 | HOSE | 1 |
| 17 | 50283069 | SOUND SHIELD,HOSE | 2 |
| 18 | 50283850 | HOSE | 1 |
| 19 | 50283851 | HOSE | 1 |
| 20 | 50283852 | HOSE | 1 |
| 21 | 50283875 | HOSE | 1 |
| 22 | 50283876 | HOSE | 1 |
| 23 | 50283878 | HOSE | 1 |
| 24 | 50283879 | HOSE | 1 |
| 25 | 50283880 | HOSE | 1 |
| 26 | 50283881 | HOSE | 1 |
| 27 | 50280791 | CLAMP 350 | 2 |
| 28 | 50282709 | CLAMP B | 13 |

Z27 - COMPACT EXCAVATOR

FIG. 123 - BOOM BRACKET



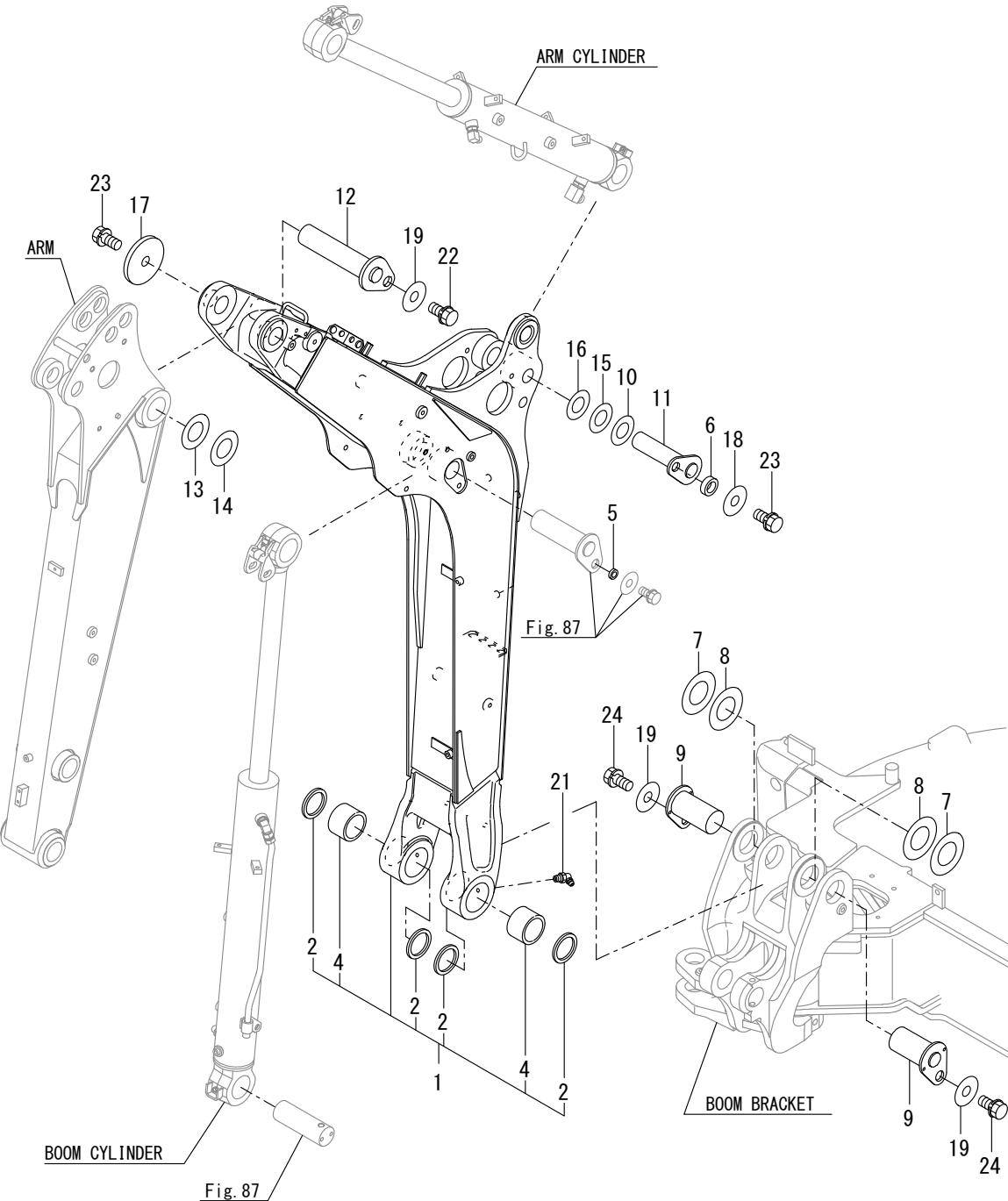
Z27 - COMPACT EXCAVATOR
FIG. 123 - BOOM BRACKET

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|-----------------|------|
| 1 | 50280910 | SHIM 60X110X0.8 | 1 |
| 2 | 50280911 | SHIM | 1 |
| 3 | 50286429 | BOOM BRACKET | 1 |
| 4 | 50284910 | BUSHING 60X50 | 1 |
| 6 | 50285031 | BUSHING 60X50 | 1 |
| 7 | 50285032 | PIN 60X334.5 | 1 |
| 8 | 50285157 | RING | 1 |
| 9 | 50284859 | BOLT 14*150 | 1 |
| 10 | 50284861 | NUT M14 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 125 - BOOM



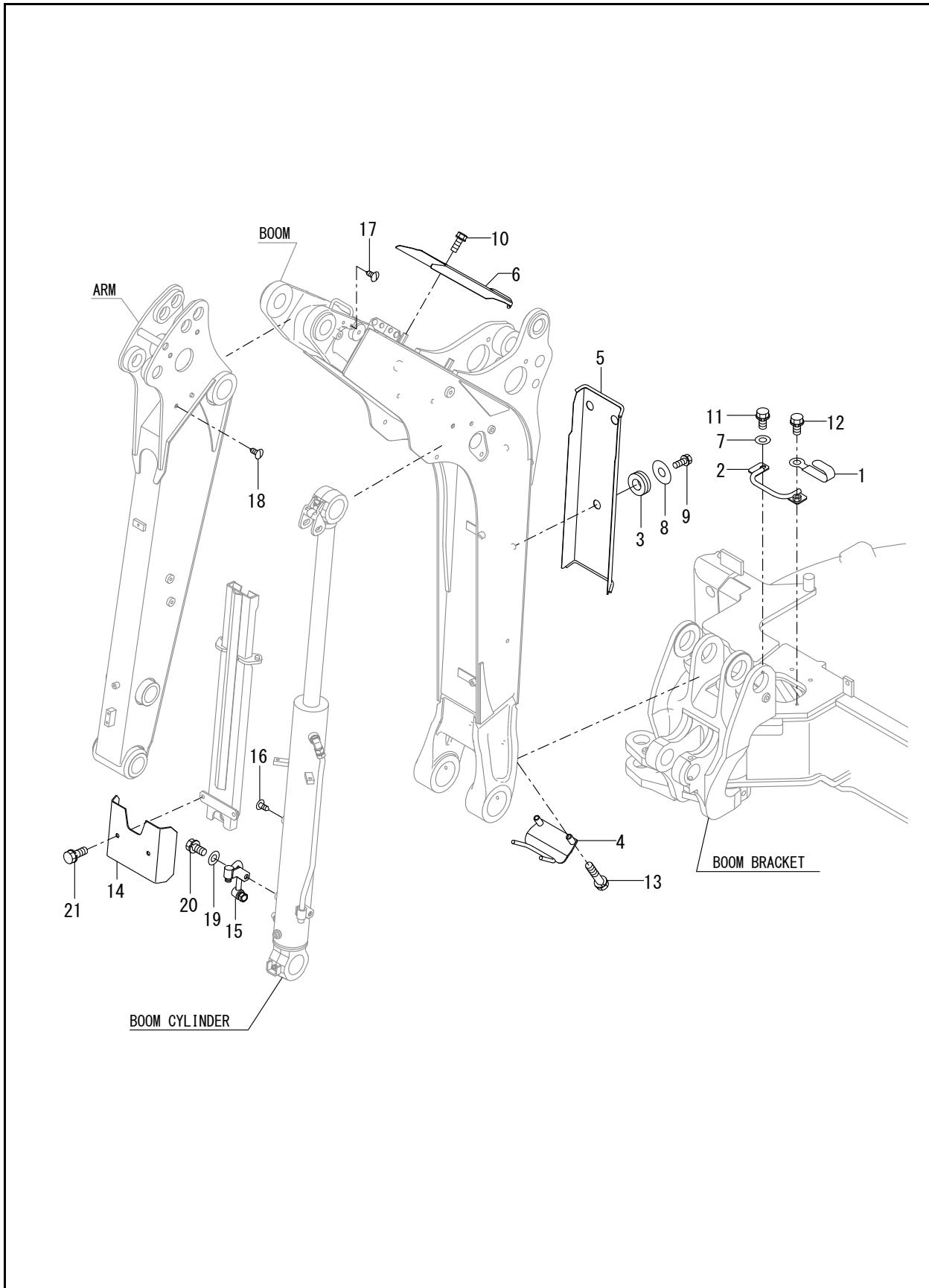
Z27 - COMPACT EXCAVATOR
FIG. 125 - BOOM

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|-------------------------------------|------|
| 1 | 50286439 | BOOM ASSY (use with label 4A) | 1 |
| 2 | 50280749 | SEAL 60 X 75 X 5 | 4 |
| 4 | 50284367 | BUSHING 60X75X50 | 2 |
| 4A | 50282884 | LABEL, BOOM US (see Page 4, Page 6) | 2 |
| 5 | 50284834 | SPACER,BOOM | 1 |
| 6 | 50280892 | SPACER | 1 |
| 7 | 50280910 | SHIM 60X110X0.8 | 2 |
| 8 | 50280911 | SHIM | 2 |
| 9 | 50284369 | PIN 60X113 | 2 |
| 10 | 50284441 | SHIM 40X75X0.8 | 1 |
| 11 | 50285102 | PIN ASSY(40X168 | 1 |
| 12 | 50284771 | PIN 50X219 CMP | 1 |
| 13 | 50280899 | SHIM 50X90X0.5 | 1 |
| 14 | 50280900 | SHIM 50X90X1.2 | 1 |
| 15 | 50282812 | SHIM 40X75X0.5 | 1 |
| 16 | 50282813 | SHIM 40X75X1.2 | 1 |
| 17 | 50282739 | SPACER | 1 |
| 18 | 50282388 | WASHER 12 | 1 |
| 19 | 50282388 | WASHER 12 | 2 |
| 21 | 50282499 | NIPPLE C,GREASE | 2 |
| 22 | 50284100 | BOLT W/WASHER M12 X 20 | 1 |
| 23 | 50284101 | BOLT M12 X 25 | 2 |
| 24 | 50282525 | BOLT W/WASHER M12X30 | 1 |

Z27 - COMPACT EXCAVATOR

FIG. 127 - BOOM (COVER)



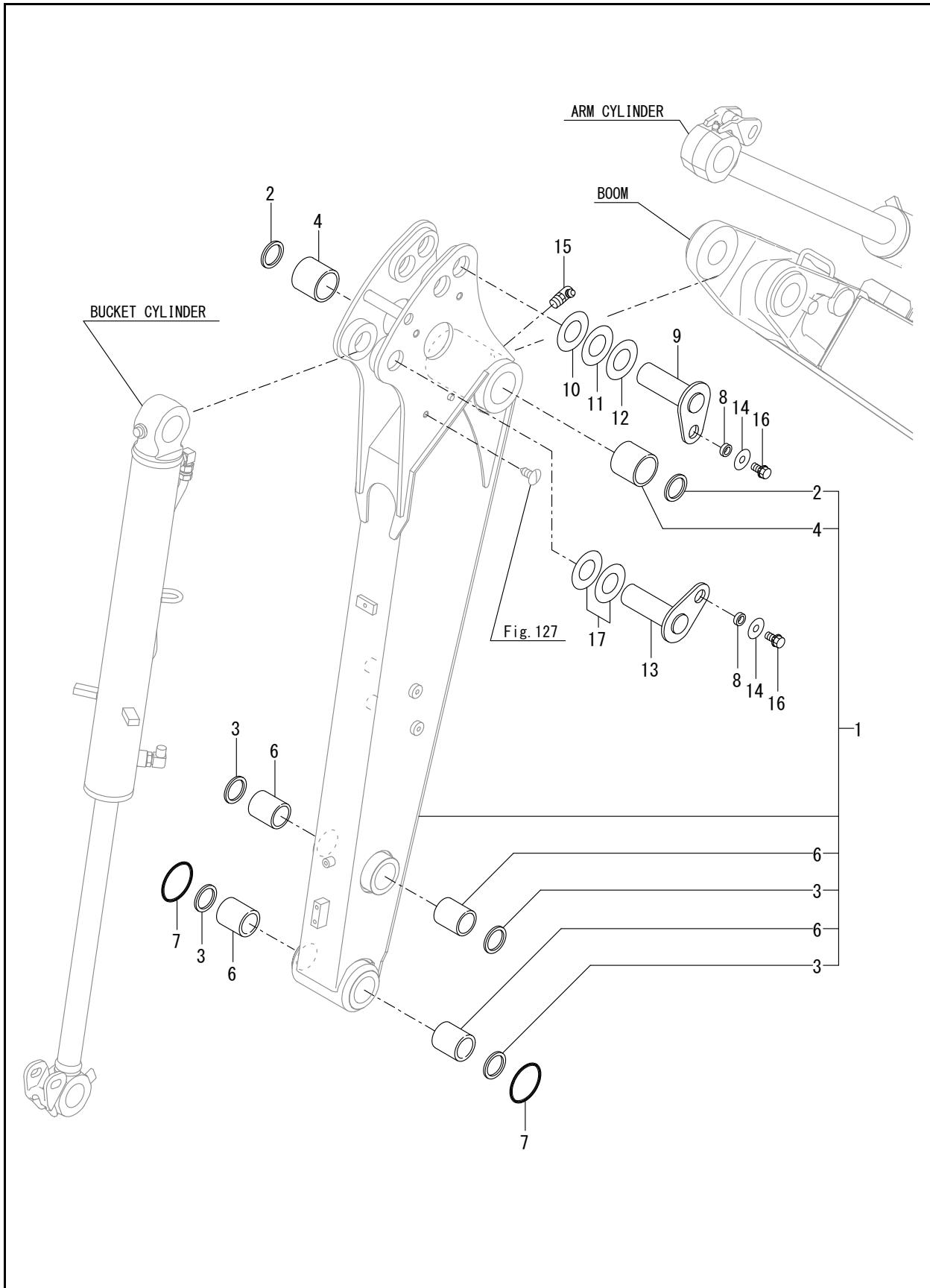
Z27 - COMPACT EXCAVATOR
FIG. 127 - BOOM (COVER)

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|---|------|
| 1 | 50280799 | CLAMP 10X70 | 1 |
| 2 | 50286267 | HOSE COVER | 1 |
| 3 | 50282720 | GROMMET 16 | 3 |
| 4 | 50286279 | HOSE GUIDE | 1 |
| 5 | 50286283 | BOOM COVER (use with labels 5A, 5B, 5C) | 1 |
| 5A | 50281177 | LABEL, SAND US (see Page 4, Page 6) | 1 |
| 5B | 50281178 | LABEL, WARNING HITCH (see Page 4, Page 6) | 1 |
| 5C | 50281030 | LABEL, STEERING US (see Page 4, Page 6) | 1 |
| 6 | 50286437 | BOOM COVER ASSY | 1 |
| 7 | 138111 | WASHER/POLISHED | 1 |
| 8 | 186593 | WASHER 8 | 3 |
| 9 | 50282506 | BOLT W/WASHER M8X16 | 3 |
| 10 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 11 | 50282515 | BOLT W/WASHER M10X20 | 1 |
| 12 | 50282517 | BOLT M10X 30 | 1 |
| 13 | 50282520 | BOLT M10X 45 | 2 |
| 14 | 50286273 | HOSE COVER | 1 |
| 15 | 50286293 | BOOM PIPE | 1 |
| 16 | 50280920 | TREE CLIP | 1 |
| 17 | 50280920 | TREE CLIP | 2 |
| 18 | 50280920 | TREE CLIP | 1 |
| 19 | 138111 | WASHER/POLISHED | 1 |
| 20 | 50282515 | BOLT W/WASHER M10X20 | 1 |
| 21 | 50282515 | BOLT W/WASHER M10X20 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 129 - ARM

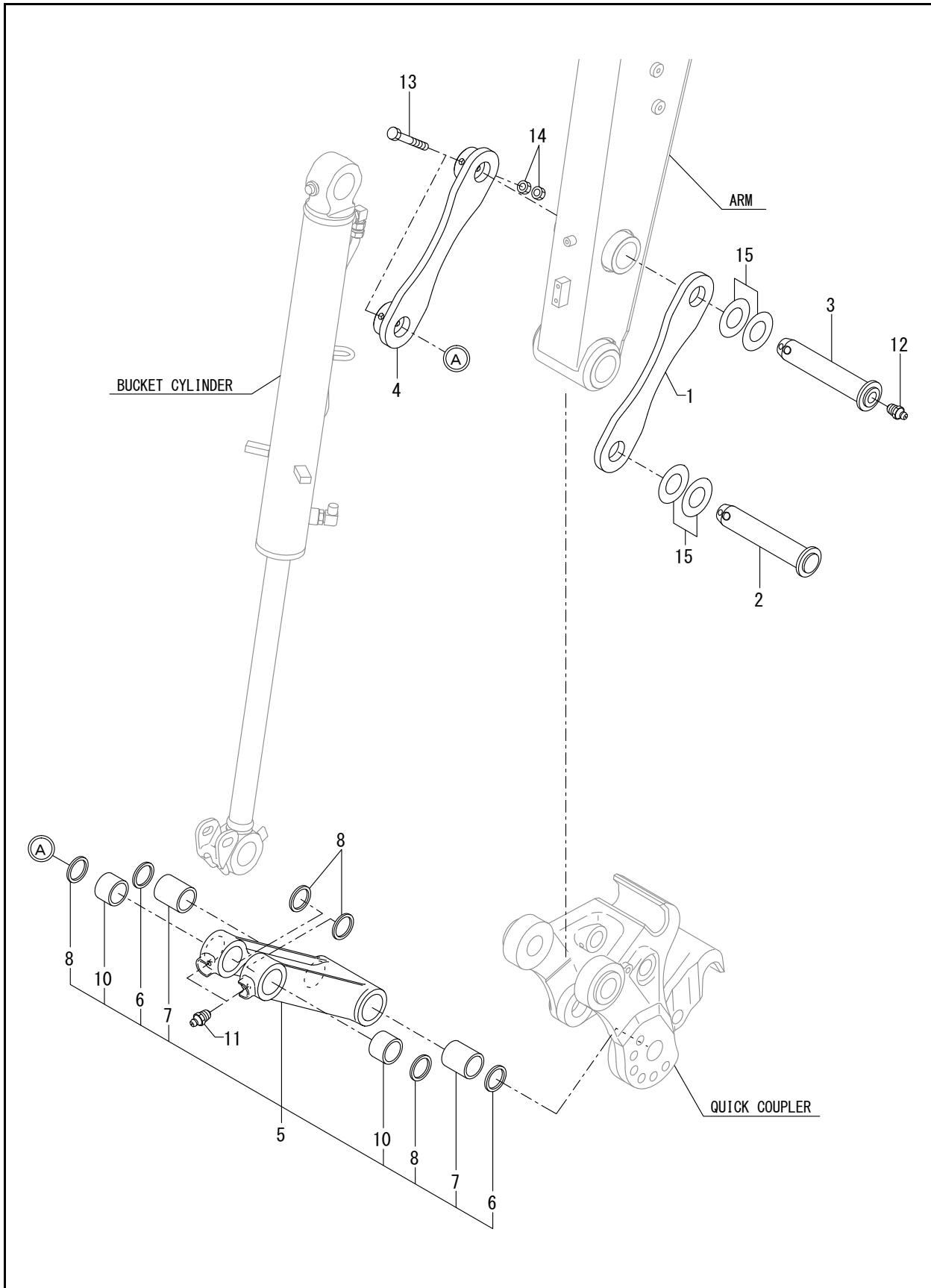


Z27 - COMPACT EXCAVATOR
FIG. 129 - ARM

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|--|------|
| 1 | 50285101 | ARM ASSY (use with labels 6A, 6B) | 1 |
| 2 | 50281061 | SEAL 50X60X4,DUST | 2 |
| 3 | 50284228 | SEAL,DUST 38X50X4 | 4 |
| 4 | 50284264 | BUSHING | 2 |
| 6 | 50284368 | BUSHING 38-55 | 4 |
| 6A | 50281176 | LABEL, FINGER US (see Page 4, Page 6) | 1 |
| 6B | 50281181 | LABEL,LOCK PIN US (see Page 4, Page 6) | 1 |
| 7 | 50284212 | O-RING | 2 |
| 8 | 50280892 | SPACER | 2 |
| 9 | 50284993 | PIN 40X116 ASSY | 1 |
| 10 | 50284441 | SHIM 40X75X0.8 | 1 |
| 11 | 50282812 | SHIM 40X75X0.5 | 1 |
| 12 | 50282813 | SHIM 40X75X1.2 | 1 |
| 13 | 50284382 | PIN 38X116 ASSY | 1 |
| 14 | 50282388 | WASHER 12 | 2 |
| 15 | 50282498 | NIPPLE B,GREASE | 1 |
| 16 | 50284101 | BOLT M12 X 25 | 2 |
| 17 | 50284879 | SHIM SET,38X(0.8,1.2 | 1 |

Z27 - COMPACT EXCAVATOR
FIG. 131 - BUCKET ARM & LINK



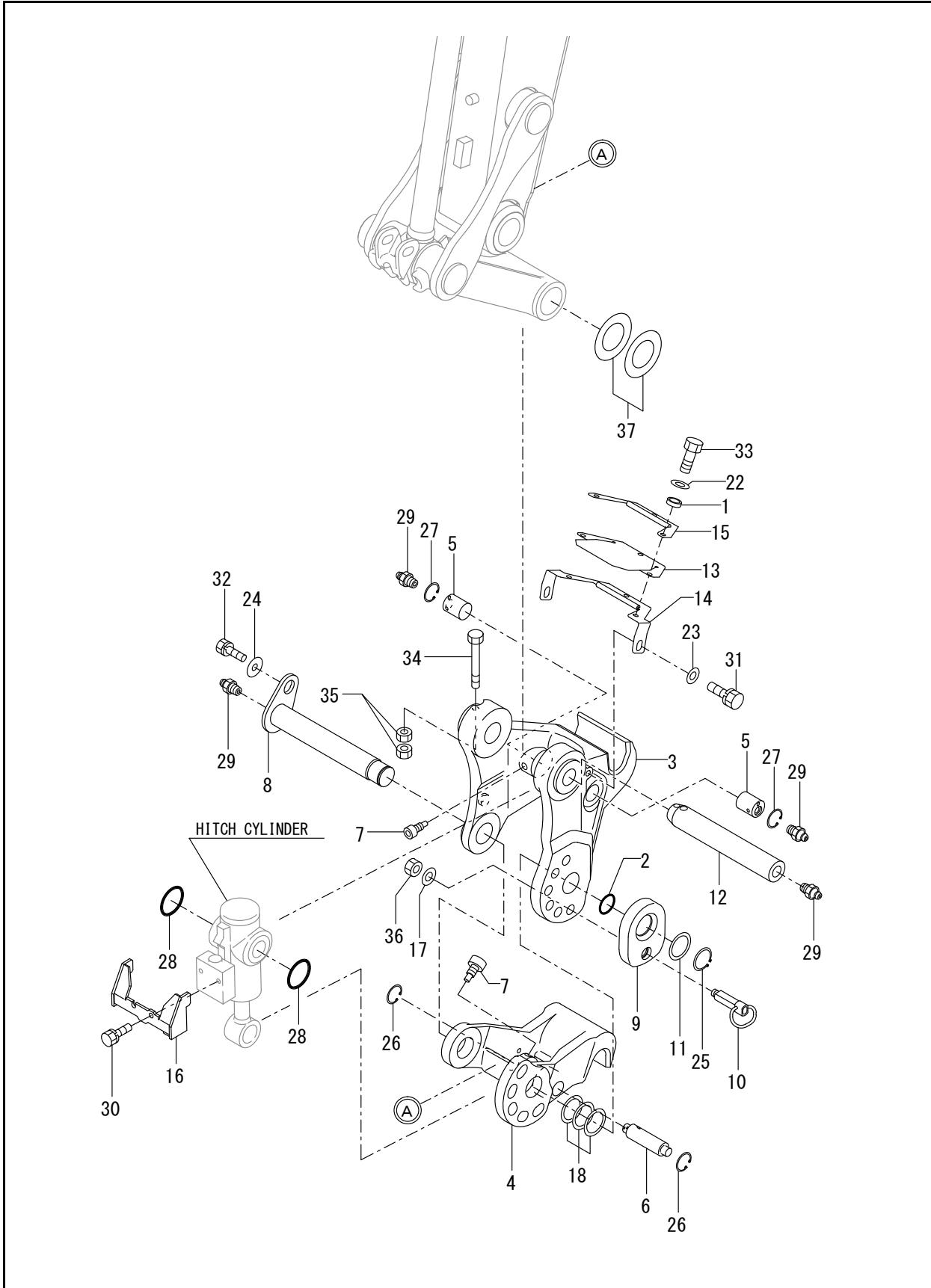
Z27 - COMPACT EXCAVATOR
FIG. 131 - BUCKET ARM & LINK

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50286173 | BUCKET ARM | 1 |
| 2 | 50284371 | PIN 38X182 ASSY | 1 |
| 3 | 50284372 | PIN 38X182 ASSY | 1 |
| 4 | 50286199 | BUCKET ARM | 1 |
| 5 | 50286201 | BUCKET LINK | 1 |
| 6 | 50284228 | SEAL,DUST 38X50X4 | 2 |
| 7 | 50284368 | BUSHING 38-55 | 2 |
| 8 | 50284196 | SEAL, DUST | 4 |
| 10 | 50284229 | BUSHING 38-48-33.5 | 2 |
| 11 | 50282497 | NIPPLE PT1/8,GREASE | 2 |
| 12 | 50282497 | NIPPLE PT1/8,GREASE | 1 |
| 13 | 50284122 | BOLT M10 X 75 PLATED | 2 |
| 14 | 50282597 | NUT 10 | 4 |
| 15 | 50284879 | SHIM SET,38X(0.8,1.2 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 133 - QUICK COUPLER



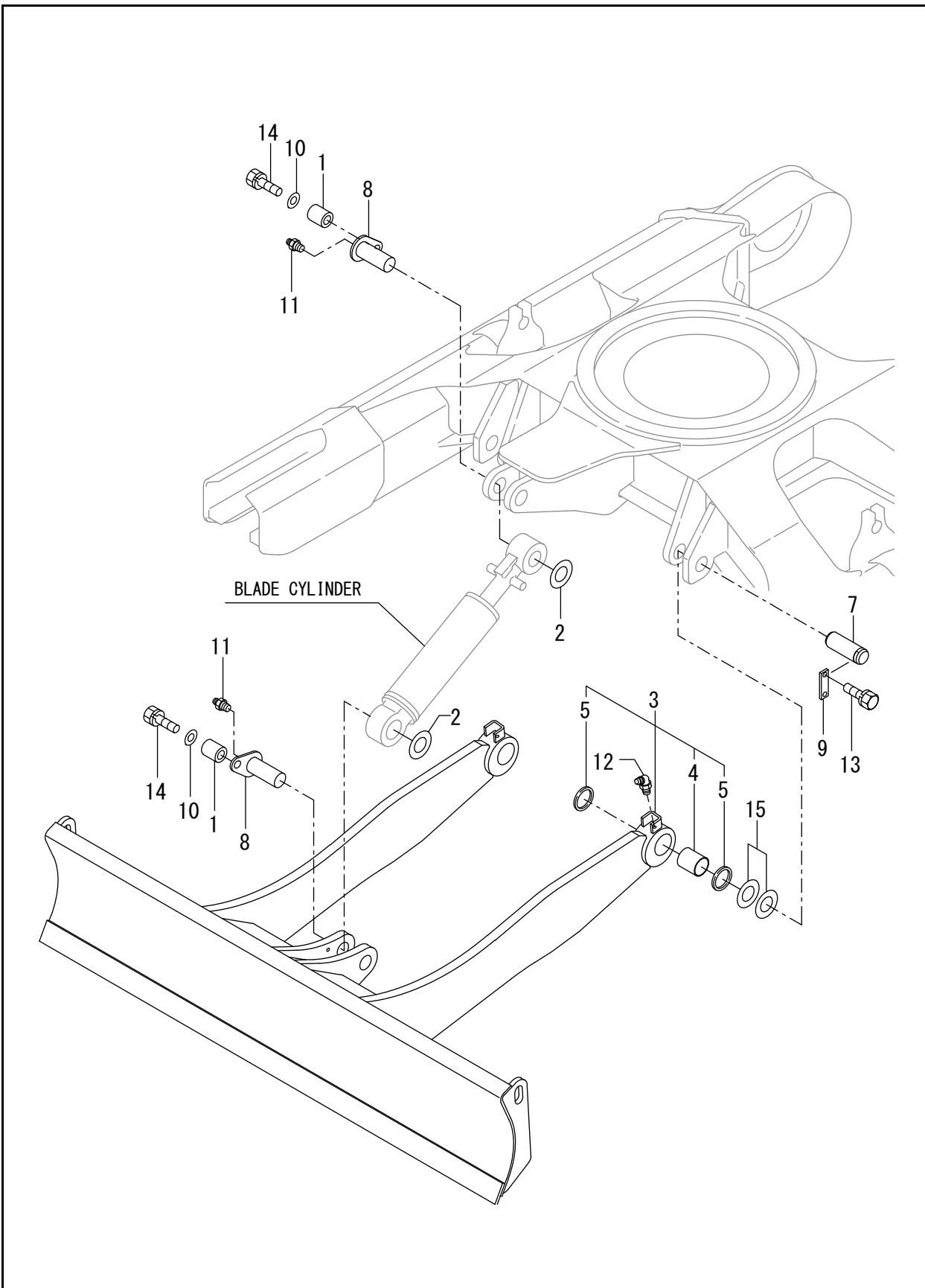
Z27 - COMPACT EXCAVATOR
FIG. 133 - QUICK COUPLER

Ref.

| No. | Part No. | Description | Qty. |
|-----|-----------|----------------------|------|
| 1 | 50281363 | COLLER 9X4 | 3 |
| 2 | 50280793 | O-RING 27X5.7 | 1 |
| 3 | 50286223 | BRACKET | 1 |
| 4 | 50286225 | BRACKET | 1 |
| 5 | 50284426 | PIN 30X37 | 2 |
| 6 | 50284428 | PIN, 25X86 | 1 |
| 7 | 50283280 | BOLT | 3 |
| 8 | 50284429 | PIN 38X237 | 1 |
| 9 | 50286227 | LOCK PLATE | 1 |
| 10 | 50284430 | ROCK PIN | 1 |
| 11 | 50281378 | COLLAR 35.5X55X1.2 | 1 |
| 12 | 50284431 | PIN 38X242 | 1 |
| 13 | 50284432 | PLATE, RUBBER | 1 |
| 14 | 50286229 | GUARD ASSY | 1 |
| 15 | 50286231 | GUARD ASSY | 1 |
| 16 | 50286233 | HITCH COVER | 1 |
| 17 | 50283282 | WASHER 6.4X15.5X1.5 | 1 |
| 18 | 50282733 | SHIM 35 | 1 |
| 22 | 50282380 | WASHER 8, POLISHED | 3 |
| 23 | 138111 | WASHER/POLISHED | 2 |
| 24 | 50282388 | WASHER 12 | 1 |
| 25 | 50282400 | CIRCLIP 35 | 1 |
| 26 | 50284840 | CIRCLIP 25 | 2 |
| 27 | 197783 | CIRCLIP 30 | 2 |
| 28 | 50284850 | O-RING 1A P-48.0 | 2 |
| 29 | 50282497 | NIPPLE PT1/8,GREASE | 4 |
| 30 | 50282506 | BOLT W/WASHER M8X16 | 2 |
| 31 | 50282515 | BOLT W/WASHER M10X20 | 2 |
| 32 | 50282525 | BOLT W/WASHER M12X30 | 1 |
| 33 | 50282562 | BOLT M 8X 20 PLATED | 3 |
| 34 | 50284123 | BOLT M10 X 80 PLATED | 1 |
| 35 | 50282597 | NUT 10 | 2 |
| 36 | 425-34984 | LOCK NUT M6 PLATED | 1 |
| 37 | 50284879 | SHIM SET,38X(0.8,1.2 | 2 |

Z27 - COMPACT EXCAVATOR

FIG. 135 - BLADE

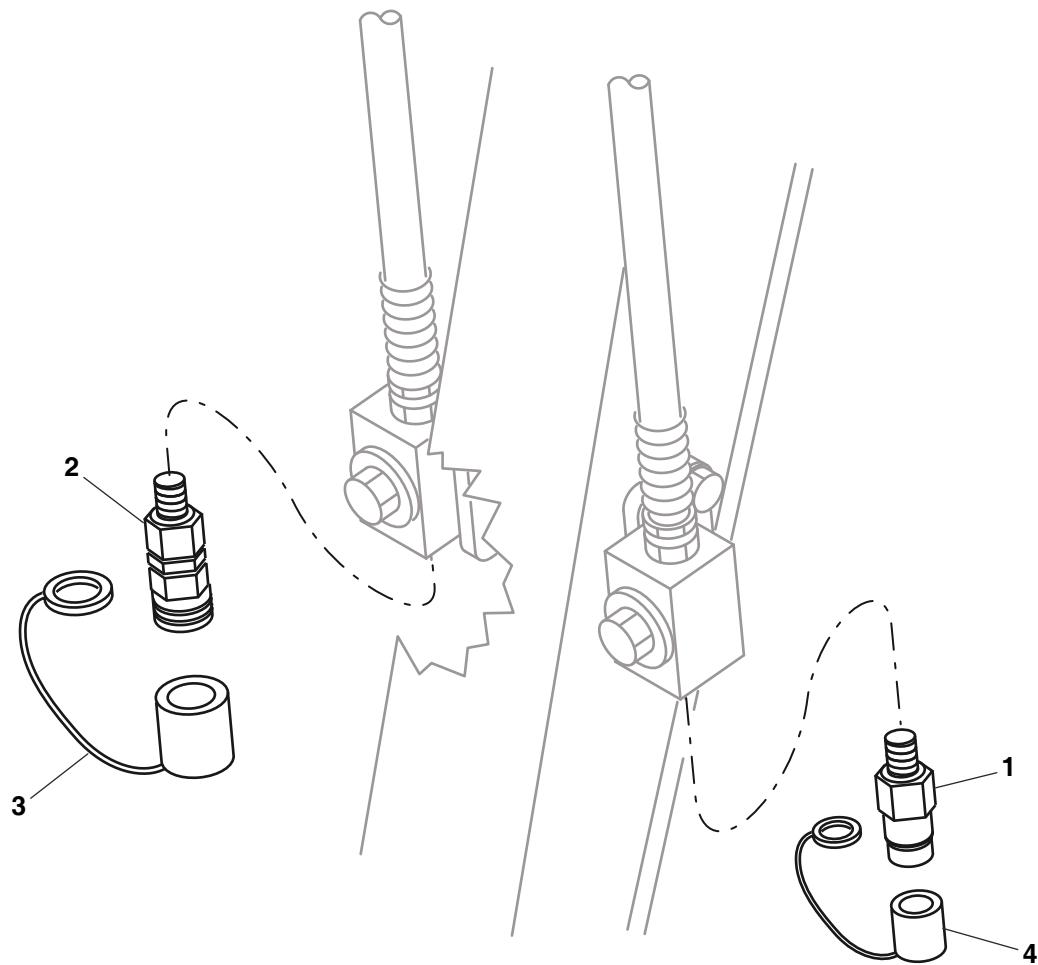


Z27 - COMPACT EXCAVATOR
FIG. 135 - BLADE

Ref.

| No. | Part No. | Description | Qty. |
|-----|----------|----------------------|------|
| 1 | 50280892 | SPACER | 2 |
| 2 | 50284192 | SHIM 40X1 | 2 |
| 3 | 50285045 | BLADE | 1 |
| 4 | 50284226 | BUSHING 38X50X40 | 2 |
| 5 | 50284228 | SEAL,DUST 38X50X4 | 4 |
| 7 | 50284251 | PIN 38X 114 | 2 |
| 8 | 50284213 | PIN 40 X 106 | 2 |
| 9 | 50282717 | PLATE, LOCK | 2 |
| 10 | 50282388 | WASHER 12 | 2 |
| 11 | 50282497 | NIPPLE PT1/8,GREASE | 2 |
| 12 | 50282498 | NIPPLE B,GREASE | 2 |
| 13 | 50282516 | BOLT W/WASHER M10X25 | 4 |
| 14 | 50282525 | BOLT W/WASHER M12X30 | 2 |
| 15 | 50284879 | SHIM SET,38X(0.8,1.2 | 2 |

**Z27 - COMPACT EXCAVATOR
HYDRAULIC QUICK-CONNECT COUPLERS**



**Z27 - COMPACT EXCAVATOR
HYDRAULIC QUICK-CONNECT COUPLERS**

Ref.

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

NOTE: See Page 222 for related components.

**Z27 - COMPACT EXCAVATOR
NOTES**

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F

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| 50284704 | 97 | 1 | 50284770 | 163 | 50 | 50284841 | 65 | 8 |
| 50284708 | 209 | 4 | 50284771 | 233 | 12 | 50284842 | 63 | 7 |
| 50284709 | 209 | 5 | 50284773 | 33 | 6 | 50284843 | 63 | 8 |
| 50284710 | 209 | 6 | 50284776 | 205 | 3 | 50284844 | 201 | 43 |
| 50284711 | 211 | 5 | 50284777 | 97 | 2 | 50284845 | 21 | 17 |
| 50284712 | 211 | 6 | 50284784 | 13 | 4 | 50284846 | 29 | 5 |
| 50284713 | 213 | 7 | 50284785 | 105 | 1 | 50284847 | 175 | 86 |
| 50284714 | 213 | 8 | 50284786 | 105 | 2 | 50284848 | 175 | 87 |
| 50284715 | 213 | 9 | 50284787 | 19 | 8 | 50284849 | 65 | 10 |

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| 50284855 | 171 | 7 |
| 50284856 | 107 | 13 |
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| 50284858 | 65 | 13 |
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| 50284861 | 65 | 14 |
| 50284861 | 231 | 10 |
| 50284862 | 65 | 11 |
| 50284863 | 63 | 1 |
| 50284864 | 59 | 2 |
| 50284865 | 61 | 2 |
| 50284866 | 61 | 1 |
| 50284867 | 59 | 1 |
| 50284869 | 201 | 1 |
| 50284870 | 201 | 25 |
| 50284871 | 201 | 2 |
| 50284875 | 59 | 20 |
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| 50284876 | 165 | 30 |
| 50284877 | 63 | 9 |
| 50284878 | 35 | 24 |
| 50284879 | 237 | 17 |
| 50284879 | 239 | 15 |
| 50284879 | 241 | 37 |
| 50284879 | 243 | 15 |
| 50284899 | 53 | 11 |
| 50284900 | 53 | 2 |
| 50284901 | 113 | 1 |
| 50284902 | 175 | 40 |
| 50284903 | 175 | 41 |
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| 50284915 | 165 | 24 |
| 50284916 | 175 | 71 |
| 50284917 | 17 | 10 |
| 50284918 | 53 | 10 |
| 50284919 | 95 | 4 |
| 50284920 | 175 | 72 |
| 50284921 | 175 | 55 |
| 50284922 | 175 | 56 |
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| 50284932 | 163 | 35 |
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| 50284939 | 161 | 7 |
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| 50284941 | 161 | 9 |
| 50284942 | 161 | 65 |
| 50284943 | 161 | 27 |
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| 50284951 | 161 | 41 |
| 50284952 | 161 | 12 |
| 50284953 | 161 | 13 |
| 50284954 | 161 | 15 |
| 50284955 | 161 | 17 |
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| 50284958 | 161 | 63 |
| 50284959 | 171 | 17 |
| 50284960 | 165 | 20 |
| 50284960 | 171 | 24 |
| 50284961 | 183 | 27 |
| 50284961 | 189 | 36 |
| 50284963 | 161 | 57 |
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| 50284966 | 175 | 47 |
| 50284967 | 175 | 48 |
| 50284968 | 175 | 63 |
| 50284969 | 175 | 49 |
| 50284970 | 175 | 50 |
| 50284971 | 175 | 52 |
| 50284972 | 175 | 53 |
| 50284973 | 175 | 54 |
| 50284974 | 57 | 1 |
| 50284975 | 67 | 1 |
| 50284976 | 67 | 12 |
| 50284977 | 67 | 23 |
| 50284978 | 113 | 2 |
| 50284979 | 171 | 2 |
| 50284981 | 171 | 23 |
| 50284982 | 175 | 1 |
| 50284983 | 175 | 37 |
| 50284984 | 175 | 60 |
| 50284985 | 175 | 61 |
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| 50284988 | 175 | 62 | 50285041 | 161 | 3 | 50285093 | 217 | 4 |
| 50284989 | 215 | 14 | 50285042 | 161 | 10 | 50285098 | 223 | 14 |
| 50284990 | 215 | 15 | 50285043 | 165 | 39 | 50285099 | 225 | 14 |
| 50284991 | 215 | 16 | 50285044 | 165 | 40 | 50285100 | 225 | 15 |
| 50284992 | 215 | 17 | 50285045 | 243 | 3 | 50285101 | 237 | 1 |
| 50284993 | 237 | 9 | 50285051 | 5 | 25 | 50285102 | 233 | 11 |
| 50284994 | 17 | 3 | 50285051 | 7 | 28 | 50285104 | 13 | 1 |
| 50284999 | 161 | 48 | 50285051 | 9 | 9 | 50285105 | 15 | 2 |
| 50285000 | 161 | 51 | 50285051 | 11 | 10 | 50285106 | 17 | 6 |
| 50285001 | 161 | 52 | 50285051 | 139 | 6B | 50285108 | 17 | 8 |
| 50285002 | 161 | 53 | 50285051 | 145 | 22A | 50285110 | 21 | 1 |
| 50285003 | 161 | 32 | 50285054 | 49 | 1 | 50285112 | 21 | 11 |
| 50285004 | 161 | 34 | 50285056 | 93 | 1 | 50285115 | 53 | 3 |
| 50285005 | 161 | 35 | 50285058 | 163 | 5 | 50285116 | 53 | 4 |
| 50285006 | 161 | 37 | 50285060 | 163 | 14 | 50285117 | 35 | 6 |
| 50285007 | 161 | 39 | 50285061 | 163 | 10 | 50285118 | 35 | 7 |
| 50285008 | 161 | 40 | 50285062 | 163 | 23 | 50285119 | 35 | 8 |
| 50285010 | 161 | 56 | 50285063 | 163 | 24 | 50285123 | 177 | 18 |
| 50285012 | 161 | 14 | 50285064 | 163 | 28 | 50285124 | 189 | 1 |
| 50285013 | 161 | 16 | 50285065 | 165 | 5 | 50285125 | 203 | 18 |
| 50285014 | 161 | 42 | 50285067 | 165 | 12 | 50285126 | 203 | 19 |
| 50285015 | 161 | 54 | 50285068 | 165 | 13 | 50285127 | 203 | 20 |
| 50285016 | 161 | 20 | 50285069 | 165 | 23 | 50285128 | 209 | 12 |
| 50285017 | 161 | 21 | 50285070 | 165 | 27 | 50285129 | 203 | 24 |
| 50285018 | 177 | 2 | 50285074 | 181 | 1 | 50285130 | 213 | 13 |
| 50285019 | 161 | 22 | 50285075 | 183 | 1 | 50285137 | 53 | 19 |
| 50285020 | 177 | 67 | 50285076 | 183 | 9 | 50285139 | 15 | 6 |
| 50285021 | 177 | 24 | 50285078 | 183 | 14 | 50285142 | 5 | 22 |
| 50285022 | 177 | 25 | 50285079 | 183 | 19 | 50285142 | 7 | 25 |
| 50285023 | 177 | 26 | 50285079 | 185 | 6 | 50285145 | 217 | 5 |
| 50285024 | 177 | 27 | 50285081 | 185 | 1 | 50285146 | 217 | 6 |
| 50285025 | 177 | 28 | 50285082 | 189 | 2 | 50285147 | 225 | 16 |
| 50285026 | 177 | 29 | 50285083 | 189 | 7 | 50285151 | 35 | 1 |
| 50285027 | 177 | 48 | 50285084 | 189 | 15 | 50285154 | 185 | 30 |
| 50285028 | 177 | 53 | 50285085 | 189 | 18 | 50285156 | 161 | 43 |
| 50285031 | 231 | 6 | 50285086 | 191 | 1 | 50285157 | 231 | 8 |
| 50285032 | 231 | 7 | 50285087 | 191 | 7 | 50285158 | 161 | 45 |
| 50285035 | 203 | 6 | 50285090 | 217 | 2 | 50285159 | 161 | 46 |
| 50285036 | 203 | 9 | 50285091 | 217 | 1 | 50285161 | 175 | 65 |

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| 50285165 | 29 | 1 |
| 50286167 | 223 | 12 |
| 50286171 | 223 | 13 |
| 50286173 | 239 | 1 |
| 50286177 | 223 | 4 |
| 50286197 | 139 | 4 |
| 50286199 | 239 | 4 |
| 50286201 | 239 | 5 |
| 50286219 | 225 | 2 |
| 50286221 | 225 | 18 |
| 50286223 | 241 | 3 |
| 50286225 | 241 | 4 |
| 50286227 | 241 | 9 |
| 50286229 | 241 | 14 |
| 50286231 | 241 | 15 |
| 50286233 | 241 | 16 |
| 50286265 | 49 | 3 |
| 50286267 | 235 | 2 |
| 50286269 | 135 | 2 |
| 50286271 | 137 | 3 |
| 50286273 | 235 | 14 |
| 50286279 | 235 | 4 |
| 50286283 | 235 | 5 |
| 50286293 | 235 | 15 |
| 50286359 | 103 | 1 |
| 50286361 | 131 | 4 |
| 50286381 | 49 | 6 |
| 50286421 | 125 | 1 |
| 50286422 | 125 | 1E |
| 50286423 | 125 | 1D |
| 50286424 | 125 | 1D |
| 50286425 | 125 | 1C |
| 50286426 | 125 | 1B |
| 50286427 | 125 | 1A |
| 50286428 | 125 | 1D |
| 50286429 | 231 | 3 |
| 50286431 | 223 | 6 |
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| 50286439 | 233 | 1 |
| 50286469 | 191 | 6 |
| 50286470 | 189 | 17 |
| 50286471 | 189 | 6 |
| 50286472 | 185 | 5 |
| 50286473 | 183 | 18 |
| 50286474 | 183 | 8 |
| 50286514 | 131 | 6 |
| 50286600 | 31 | 18 |
| 50300780 | 5 | 14 |
| 50300780 | 7 | 17 |
| 50300797 | 5 | 6 |
| 50300797 | 7 | 9 |
| 50300958 | 245 | 1 |
| 50300968 | 245 | 2 |
| 50301126 | 1 | 2 |
| 50301147 | 5 | 64 |
| 50301147 | 7 | 67 |
| 50301147 | 51 | 3 |
| 210-32084 | 17 | 25 |
| 210-32084 | 163 | 60 |
| 420-34912 | 1 | 7 |
| 420-34913 | 1 | 8 |
| 420-34914 | 1 | 9 |
| 425-34652 | 13 | 13 |
| 425-34728 | 201 | 24 |
| 425-34733 | 81 | 10 |
| 425-34733 | 101 | 2 |
| 425-34744 | 21 | 9 |
| 425-34744 | 29 | 7 |
| 425-34744 | 31 | 19 |
| 425-34744 | 219 | 4 |
| 425-34746 | 117 | 17 |
| 425-34760 | 77 | 3 |
| 425-34765 | 117 | 18 |
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| 425-34891 | 35 | 16 |
| 425-34891 | 35 | 17 |
| 425-34891 | 55 | 10 |
| 425-34902 | 17 | 16 |
| 425-34902 | 17 | 17 |
| 425-34902 | 17 | 18 |
| 425-34902 | 139 | 9 |
| 425-34902 | 223 | 17 |
| 425-34916 | 21 | 19 |
| 425-34916 | 31 | 21 |
| 425-34918 | 29 | 21 |
| 425-34918 | 205 | 12 |
| 425-34918 | 205 | 16 |
| 425-34918 | 209 | 1 |
| 425-34918 | 209 | 17 |
| 425-34918 | 213 | 6 |
| 425-34918 | 213 | 16 |
| 425-34918 | 219 | 15 |
| 425-34918 | 229 | 8 |
| 425-34924 | 31 | 16 |
| 425-34927 | 31 | 20 |
| 425-34968 | 193 | 15 |
| 425-34970 | 143 | 28 |
| 425-34984 | 241 | 36 |
| 425-35026 | 53 | 31 |
| 425-35026 | 201 | 36 |
| 425-35206 | 141 | 29 |
| 425-35206 | 147 | 21 |
| 425-35678 | 175 | 78 |
| 425-35678 | 179 | 13 |
| 425-35678 | 201 | 33 |
| 425-35678 | 201 | 40 |
| 425-35944 | 59 | 11 |
| 425-35944 | 61 | 11 |
| 425-36133 | 13 | 14 |
| 425-36251 | 13 | 12 |
| 425-36271 | 29 | 22 |

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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