

Field Assembly Instruction

DUMP TRUCK

HD325 -7
HD405 -7

SERIAL NUMBERS

HD325-7001-7025
HD325-7101 and up
HD405-3001-3035
HD405-7101 and up

ecot3

KOMATSU

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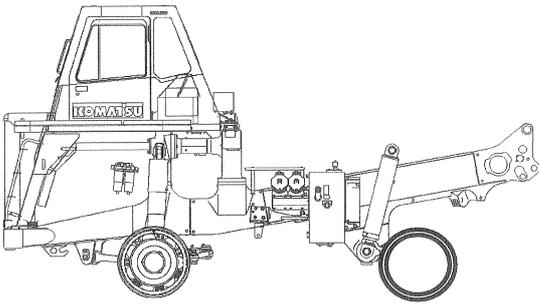
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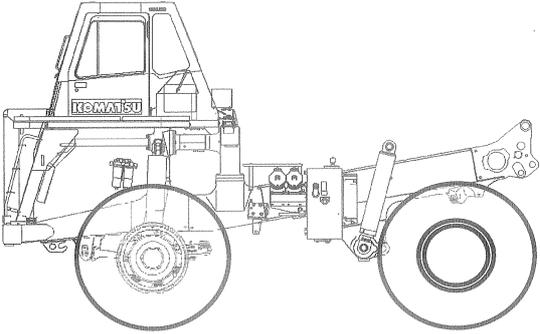
Appendix

Field assembly inspection report

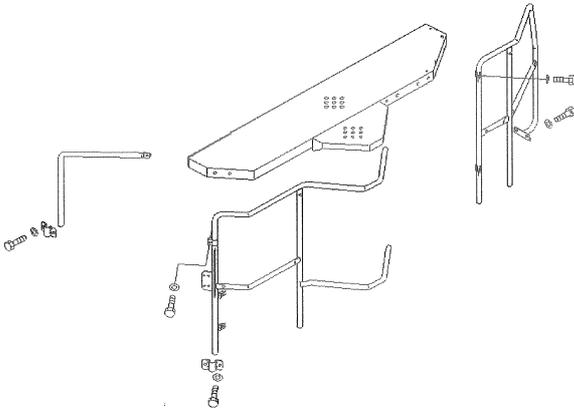
1. Outline of division (Only main components)



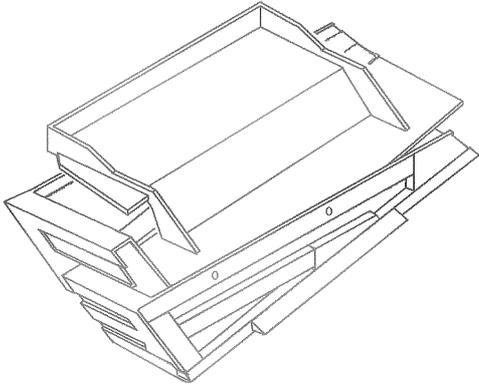
1. Bare machine (North America, Europe)



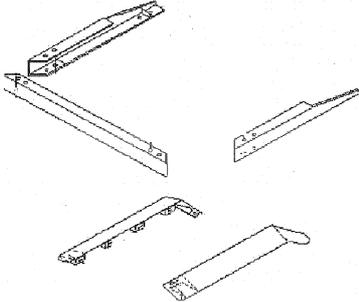
1. Bare machine (The overseas public)



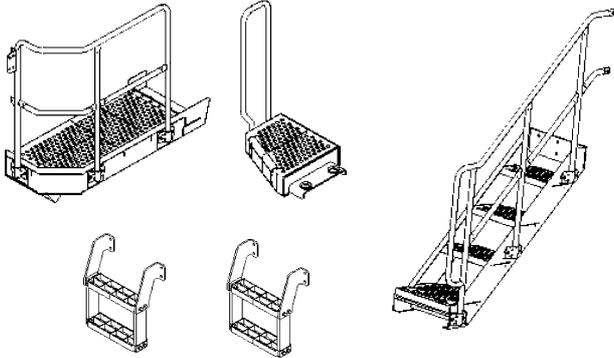
2. Catwalk



3. Dump body (Divided into 3)



4. Spill guard and platform guard

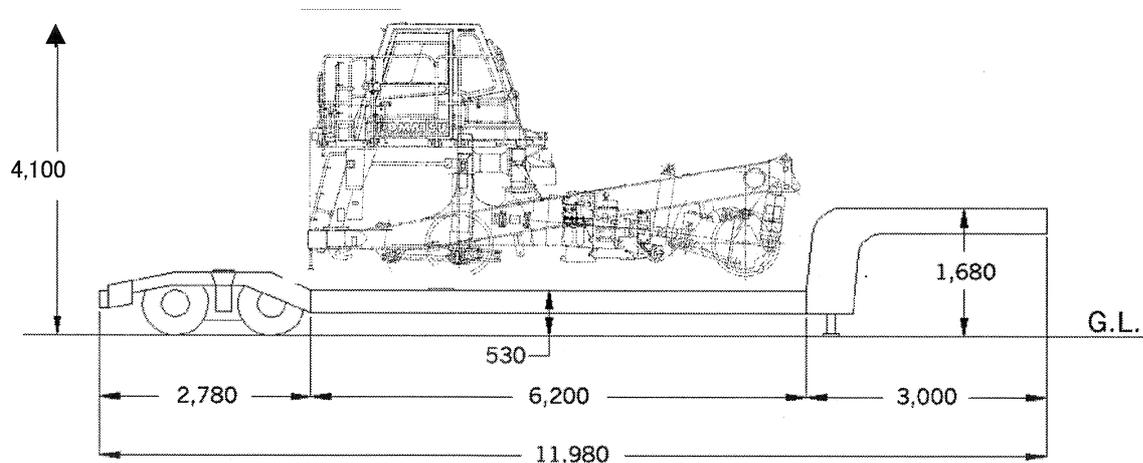
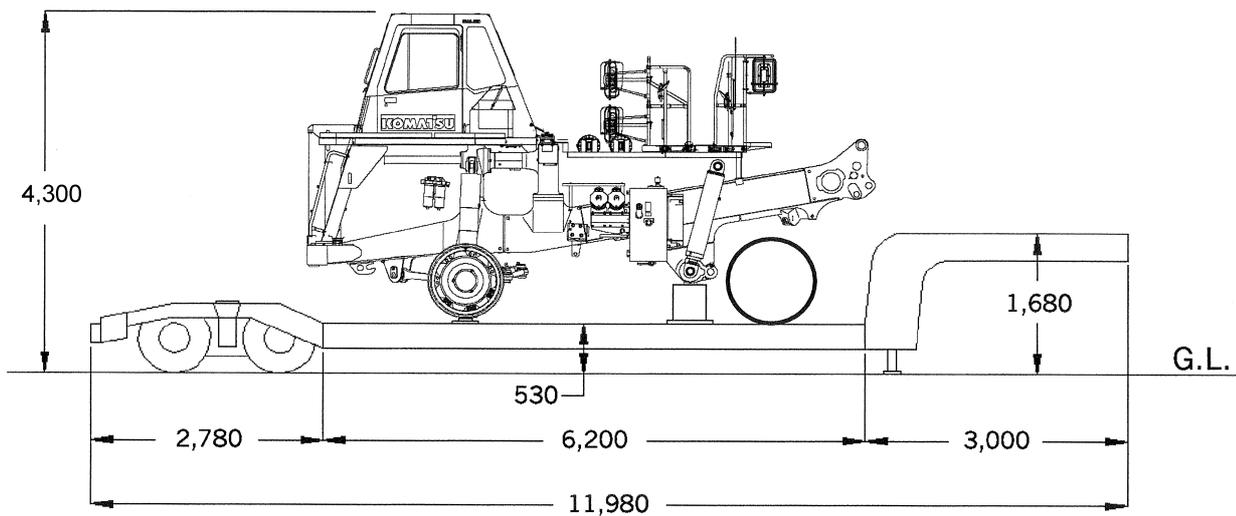


5. Diagonal ladders
(EU specification and diagonal ladder specification only)

2. Dimensions of main components

| No. | Unit name | Weight (kg) | Overall length (mm) | Overall width (mm) | Overall height (mm) |
|-----|---|-------------|---------------------|--------------------|---------------------|
| 1 | Bare machine with tires and without dump body | 23,270 | 6,635 | 3,660 | 3,850 |
| | Bare machine without tires and dump body | 18,842 | 6,449 | 3,497 | 3,497 |

Drawing of bare machine on trailer

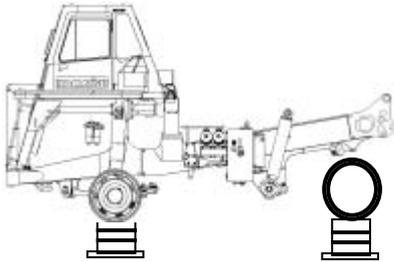
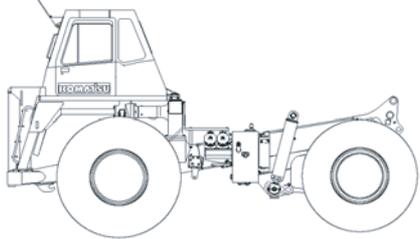


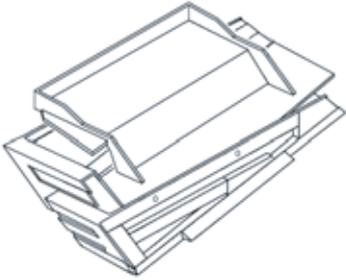
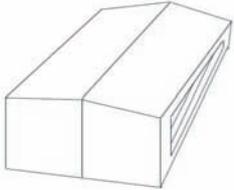
Reference

Specifications of completed truck

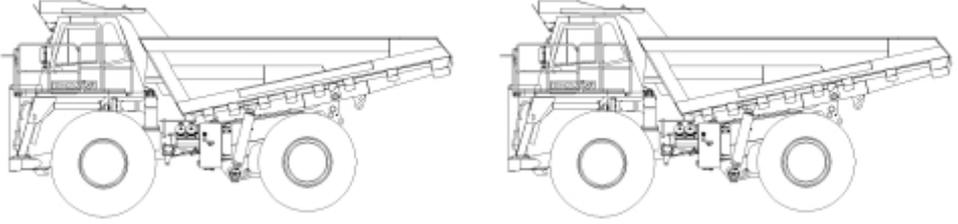
| Specifications | | Related items | | | |
|--------------------------|---------|-----------------------------|---------------------------------------|--------------------|-----------------------|
| | | Weight (kg) | Overall length (mm) | Overall width (mm) | Overall height (mm) |
| In self-propelled travel | HD325-7 | 31,600 (Mass of machine) | 8,465 (Front bumper – End of body) | 3,660 | 4,000 (When empty) |
| | HD405-7 | 34,400 (Mass of machine) | 8,465 (Front bumper – End of body) | 3,660 | 4,000 (When empty) |

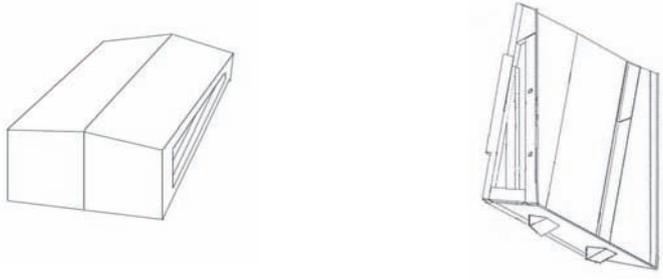
3-1. Rough schedule of assembly and welding

| Day | 1st day | | | | | | | |
|---------------------------------|--|---|--|---|---|---|---|---|
| | Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Condition of chassis |  | | | |  | | | |
| Rough contents of assembly work | Positioning rear axle Positioning chassis Installing tires | | | | Installing platform Installing various exterior parts | | | |
| Crane |  245 kN {25 ton} | |  245 kN {25 ton} | |  245 kN {25 ton} (98 kN {10 ton}) | | | |
| Number of workers | 2 | |  | | | | | |

| Day | 1st day | | | | | | | |
|--------------------------|--|---|--|---|---|---|---|---|
| | Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Condition of body |  | | | |  | | | |
| Contents of welding work | Unloading Removing stands, fixing material, etc. | | | | Positioning and fixing split body Welding back side | | | |
| Crane |  245 kN {25 ton} | |  245 kN {25 ton} | |  | | | |
| Number of workers | 3 | |  | | | | | |

3-2. Rough schedule of assembly and welding

| Day | 2nd day | | | | | | | |
|---------------------------------|--|---|---|---|---------------------------------------|---|---|---|
| | Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Condition of chassis |  | | | | | | | |
| Rough contents of assembly work | Installing exterior parts Painting | | | | Maintenance, adjustment Inspection | | | |
| Crane | | | | | | | | |
| Number of workers | 2  | | | | | | | |

| Day | 2nd day | | | | | | | |
|--------------------------|---|---|---|---|--------------|---|---|---|
| | Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Condition of body |  | | | | | | | |
| Contents of welding work | Positioning and fixing split body Welding back side | | | | Turning over | | | |
| Crane |   | | | | | | | |
| Number of workers | 3  | | | | | | | |

3-3. Rough schedule of assembly and welding

| Day | 3rd day | | | | | | | |
|---------------------------------|---------|---|---|---|---|---|---|---|
| | Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Condition of chassis | | | | | | | | |
| Rough contents of assembly work | | | | | | | | |
| Crane | | | | | | | | |
| Number of workers | 2 | | | | | | | |

| Day | 3rd day | | | | | | | |
|--------------------------|------------------------|---|---|---|-------------------|---|---|---|
| | Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Condition of body | | | | | | | | |
| Contents of welding work | Welding inside of body | | | | Welding protector | | | |
| Crane | | | | | | | | |
| Number of workers | 3 | | | | | | | |

4. List of equipments, tools, and consumables

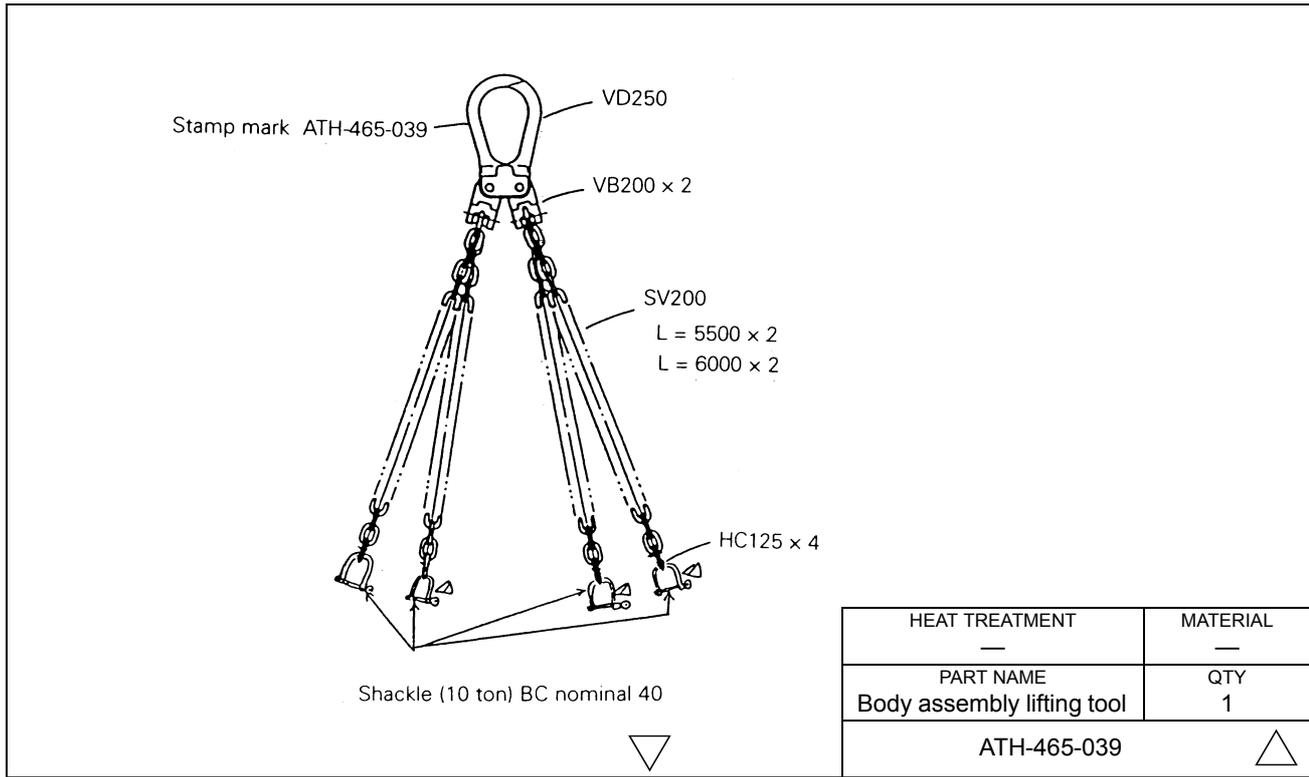
| No. | Item | Specification | Q'ty | Location |
|-----|---|--|-------|--|
| 1 | Truck crane | 245 kN {25 ton} | 1 | See field assembly manual |
| 2 | Truck crane | 245 kN {25 ton} | 1 | See field assembly manual |
| 3 | Forklift truck | 24.5 kN {2.5 ton} | 1 | |
| 4 | Gas cutting machine | | 1 | |
| 5 | Nozzle | No. 1220N2 | 1 | |
| 6 | Acetylene gas | | 1 | For gas cutting machine |
| 7 | Oxygen gas | 14.7 MPa {150 kg/cm ² } | 1 | For gas cutting machine |
| 8 | Grinder (Round) | FG50L-1 | 1 | |
| 9 | Abrasive wheel | SCW50 × 19 • 10 | 1 | |
| 10 | Grinder | LISG-7S | 1 | For finishing |
| 11 | Abrasive wheel | 180 ø × 6 × 22 | 3 | |
| 12 | Diamond ber | CB7C105 | 1 | |
| 13 | Diamond ber edge | 6GH | 1 | |
| 14 | Semi-automatic welding machine | 500A | 3 | |
| 15 | Hand shield | GP-1S | 3 | |
| 16 | Wire for semi-automatic welding machine | 1.2 mm | 80 kg | |
| 17 | Chipper scaling hammer | FCM-20F | 2 | |
| 18 | Port-Power | 300 mm for 98 kN {10 ton} | 1 | For correcting position of body |
| 19 | Hydraulic jack | 98 kN {10 ton} | 1 | For body |
| 20 | Hydraulic jack | 49 kN {5 ton} | 1 | For body |
| 21 | Flame-resistant cloth | 1 m × 10 m | 1 | Protection from welding by actually positioning parts on machine |
| 22 | Nitrogen gas filler | 7926-10-1000 | 1 | |
| 23 | Nitrogen gas cylinder | 14.7 MPa {150 kg/cm ² } | 1 | Filling suspension with nitrogen gas |
| 24 | Tire inflation pressure gauge | No. 2252 | 1 | |
| 25 | Grease pump gun | For 20kg can | 1 | |
| 26 | Grease | G2-LI | 5 kg | |
| 27 | Stepladder | 3-step | 1 | |
| 28 | Stepladder | 6-step | 1 | |
| 29 | Vinyl sheet | 5 m × 10 m | 5 | Protection of machinery and material |
| 30 | Wood block | 300 mm square, 1 m long | 12 | |
| 31 | Oil can | 5ℓ | 1 | For supplying oil |
| 32 | Oil container, washing can | | 2 | |
| 33 | Waste oil can | Drum | 1 | |
| 34 | Cloth | | 5 kg | |
| 35 | Fuel oil | ASTM D4741 | | For machine |
| 36 | Air hose | 6 ø × 1 m | 1 | For bleeding air |
| 37 | Sanding machine for painting | 914B | 1 | |
| 38 | Sandpaper for painting | #80 | 100 | |
| 39 | Sandpaper for painting | #180 | 10 | |
| 40 | Cup gun set | W87-20R2S | 1 | For painting |
| 41 | Brush | | 1 | For touching up painted surface |
| 42 | Air compressor | 3.5 m ³ /min, Min. 686 kPa {7 kg/cm ² } | 1 | |
| 43 | Air hose | With 12 ø adapter | 5 | For impact grinder |
| 44 | Impact wrench | For M6 – M12 | 3 | |
| 45 | Impact wrench | For M4 – M20 | 1 | |
| 46 | Impact wrench | For M24, M27 and M33 | 1 | |
| 47 | For extension impact 38S | 600 mm long, For M33 | 1 | For tightening tire |
| 48 | Socket | 1 inch × 46 mm | 1 | For tightening tire |
| 49 | Socket | 10 mm | 1 | |

| No. | Item | Specification | Q'ty | Location | |
|-----|--|---|------|---|----------------------------|
| 50 | Socket | 13 mm | 1 | | |
| 51 | Socket | 17 mm | 1 | | |
| 52 | Socket | 19 mm | 1 | | |
| 53 | Socket | 22 mm | 1 | | |
| 54 | Socket | 24 mm | 1 | | |
| 55 | Torque wrench | 29.4 – 49 Nm{3.0 – 5.0 kgm} | 1 | | For exterior parts |
| 56 | Torque wrench | 1,519 – 1,852 Nm {154.9 – 188.9 kgm} | 1 | | For tightening tire |
| 57 | Steel measure tape | 5 m | 1 | | For binding wiring harness |
| 58 | LOCTITE | LT-2 | 1 | | |
| 59 | Vinyl tape | | 1 | | |
| 60 | Standard tools (For ISO) | 700SX | 2 | | |
| 61 | Bar | 1 m | 1 | | For matching holes |
| 62 | Pointed steel bar | | 1 | | |
| 63 | Sledgehammer | 10 lb | 1 | | |
| 64 | Shackle | BD10 for 4.9 kN {500 kg} | 4 | | |
| 65 | Shackle | BC40 for 98 kN {10 ton} | 4 | For installing body | |
| 66 | Chain | ATH-465-042 | 1 | Multi-purpose type | |
| 67 | Nylon sling | Width of 250 mm * 5 m | 1 | For installing right platform | |
| 68 | Nylon sling | Width of 60 mm * 3 m | 2 | For installing support and small parts | |
| 69 | Nylon sling | Width of 100 mm * 12 m | 1 | For installing front tire | |
| 70 | Pin | 60 ø * 250 mm | 2 | For slinging chassis on rear side (Safety pin can substitute) | |
| 71 | Jig for slinging body | AHT-785-006 | 4 | For installing body | |
| 72 | Wire | 7 m 28 ø | 2 | For slinging chassis | |
| 73 | Wire | 4 m 28 ø | 2 | For installing body | |
| 74 | Wire | 5 m 28 ø | 2 | For installing body | |
| | The following 4 items can substitute for Nos. 72 – 74. | | | | |
| | | ATH-465-039 | 1 | For installing body | |
| | | ATH-465-040 | 2 | For slinging chassis | |
| | | ATH-465-041 | 1 | For sling split body | |

List of touch-up paints for export machine with body (Delivered from factory for Japanese market)

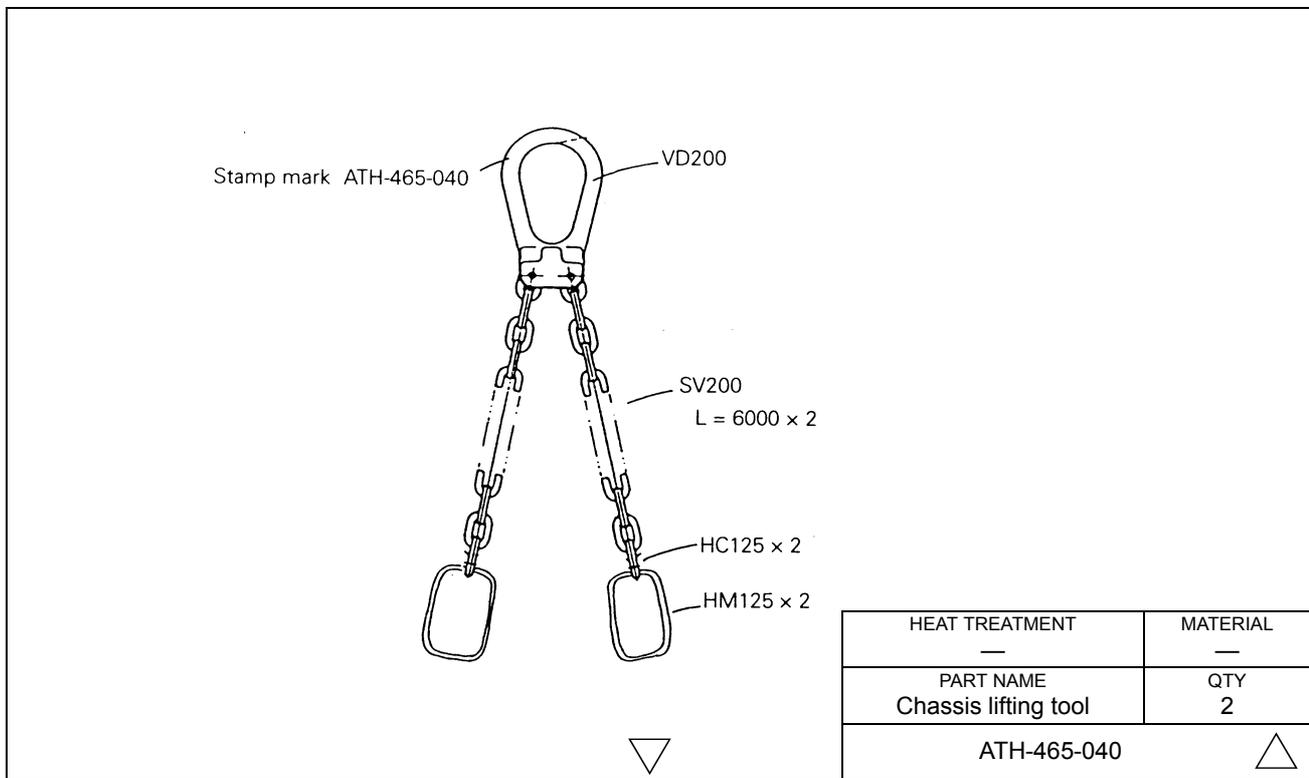
| No. | Part name | Unit | Q'ty |
|-----|-----------------------|-----------|------|
| 1 | RETAN GP Primer | 4 kg | 1 |
| 2 | RETAN GP Hardener | 0.8 kg | 1 |
| 3 | RETAN GP Thinner | 4 ℓ | 1 |
| 4 | SR3000 Natural yellow | 16 kg | 2 |
| 5 | SR3000 Hardener | 15 kg | 2 |
| 6 | Urethane thinner 205 | 17 ℓ | 1 |
| 7 | Black gray | Spray can | 1 |
| 8 | Heat-resistant silver | Spray can | 1 |

Body assembly lifting tool



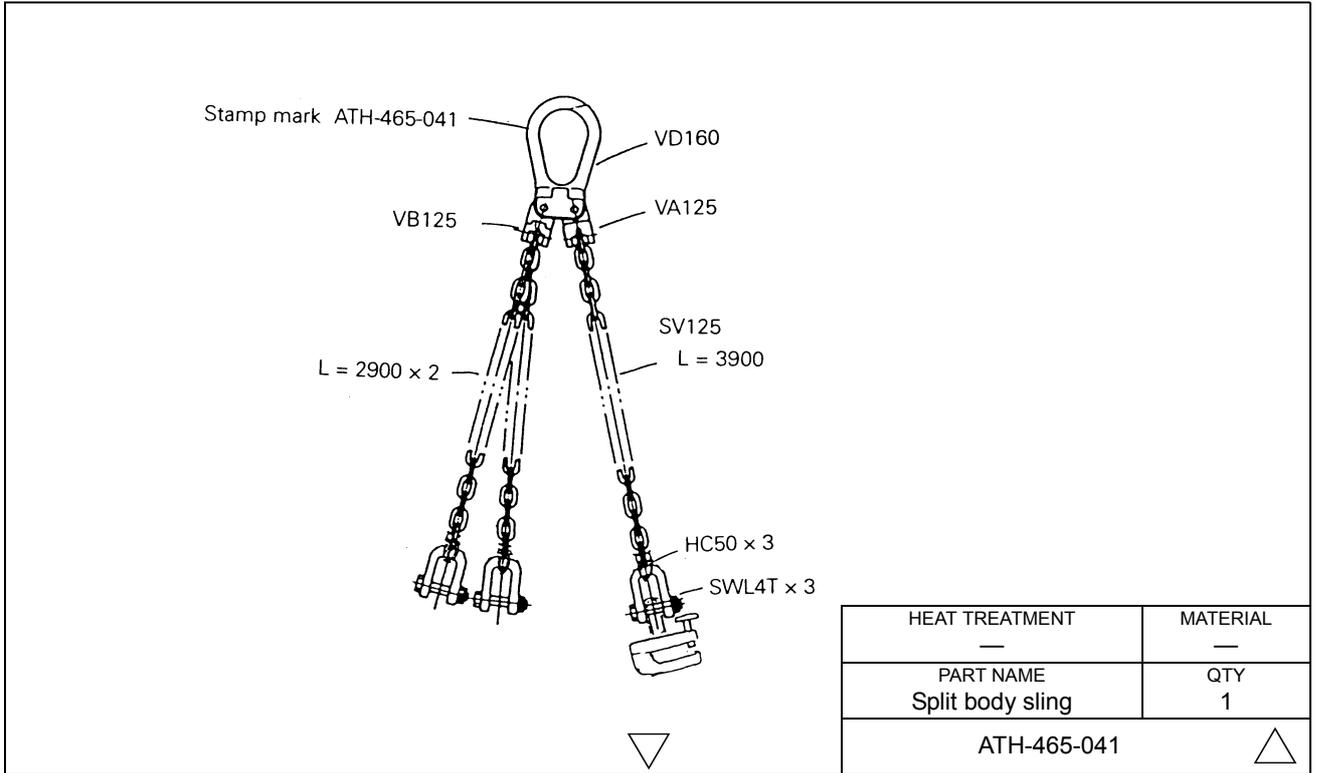
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|---|---------------|
| HEAT TREATMENT — | MATERIAL — |
| PART NAME Body assembly lifting tool | QTY 1 |
| ATH-465-039  | |

Chassis lifting tool

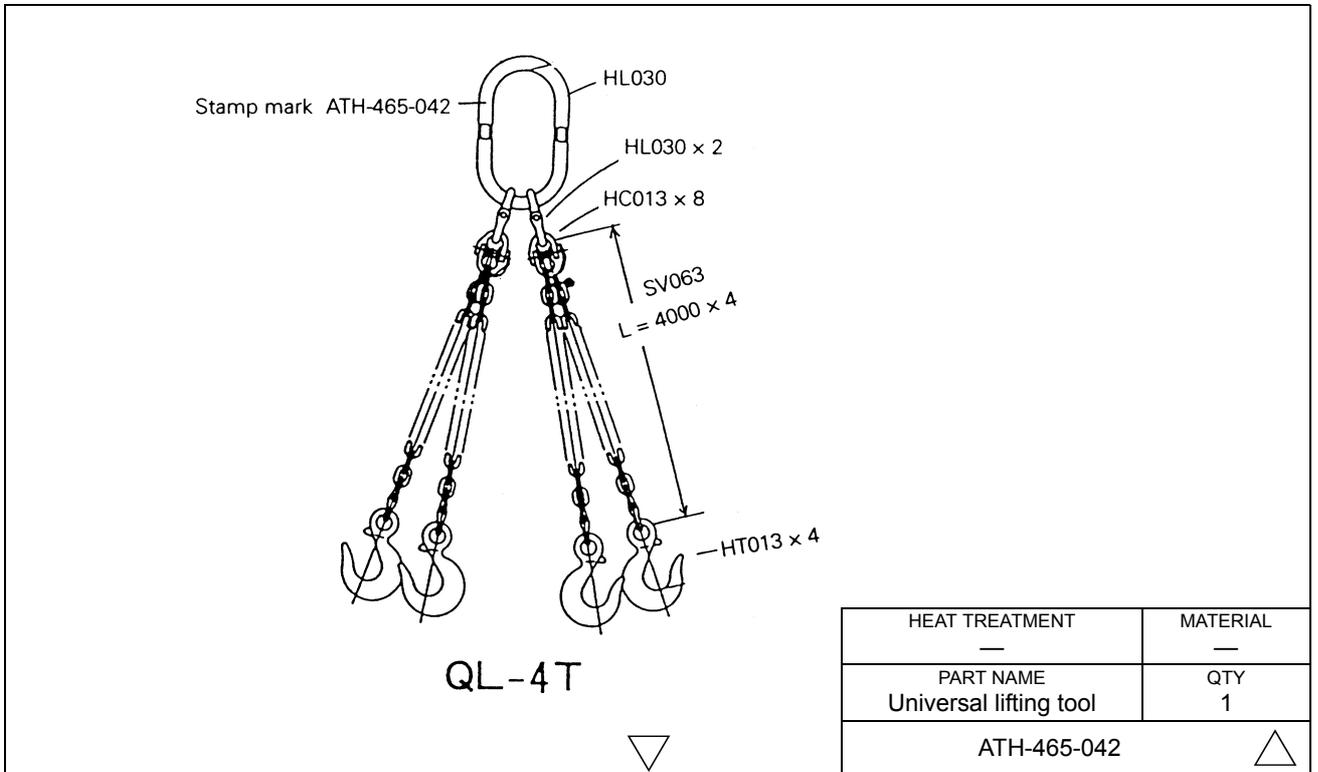


| | |
|---|---------------|
| HEAT TREATMENT — | MATERIAL — |
| PART NAME Chassis lifting tool | QTY 2 |
| ATH-465-040  | |

Dump body lifting tool



Universal lifting tool



| | |
|----------------------|---------------------------------|
| Assembly process No. | Oil, grease, and coolant |
| 0010 | |

Method of using fuel, lubricant, and coolant according to ambient temperature

- Fuel, oil
 - Use the correct type for the ambient temperature as shown in the table below.
 - ★ Specified capacity: Total amount of oil including oil for components and oil in piping
 - Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance.
 - ★ When starting the engine in an ambient temperature of less than 0°C, always use EOS0W30, or EOS5W40, even though the temperature goes up to 10°C during the daytime.
- Coolant
 - Komatsu genuine super coolant (AF-NAC) is added to the cooling water, so there is no need to change it for temperatures down to -10°C.
 - If the temperature goes below -10°C, adjust the density. For details, see CLEANING INSIDE OF COOLING SYSTEM in the WHEN REQUIRED Section of the Operation and Maintenance Manual.

| Reservoir | Fluid Type | Ambient Temperature, degrees Celsius | | | | | | | | | | Recommended Komatsu Fluids |
|---|---------------------------------|--------------------------------------|-----|-----|----|----|----|----|-----|-----|----|---|
| | | -22 | -4 | 14 | 32 | 50 | 68 | 86 | 104 | 122 | °F | |
| | | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | °C | |
| Engine oil pan | Engine oil | (Note.1) | | | | | | | | | | Komatsu EOS0W30 |
| | | (Note.1) | | | | | | | | | | Komatsu EOS5W40 |
| | | (Note.1) | | | | | | | | | | Komatsu EO10W30DH |
| | | (Note.1) | | | | | | | | | | Komatsu EO15W40DH |
| | | (Note.1) | | | | | | | | | | Komatsu EO30DH |
| Transmission Case (incl. brake oil tank) | Power train oil (Note.2) | (Note.1) | | | | | | | | | | TO10 |
| | | (Note.1) | | | | | | | | | | TO30 |
| Hydraulic tank | Power train oil | (Note.1) | | | | | | | | | | TO10 |
| Front suspension Rear suspension | Hydraulic oil | (Note.1) | | | | | | | | | | HO-MVK |
| Differential case Final drive case | Power train oil | (Note.1) | | | | | | | | | | TO30 |
| | | (Note.1) | | | | | | | | | | TO50 |
| Grease fitting | Hyper grease (Note.3) | (Note.1) | | | | | | | | | | G2-T, G2-TE |
| | Lithium EP grease | (Note.1) | | | | | | | | | | G2-LI |
| Cooling system | Supercoolant AF-NAC (Note.4) | (Note.1) | | | | | | | | | | AF-NAC |
| Fuel tank | Diesel fuel | (Note.1) | | | | | | | | | | ASTM Grade No.1-D S15 ASTM Grade No.1-D S500 |
| | | (Note.1) | | | | | | | | | | ASTM Grade No.2-D S15 ASTM Grade No.2-D S500 |

• ASTM: American Society of Testing and Material

| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| ★ For details of the notes (e.g., Note. 1, Note. 2...) in the table, see the Operation and Maintenance Manual. | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Other remarks | | | | |

| | |
|----------------------|---|
| Assembly process No. | Levels of oil, grease, and coolant |
| 0020 | |

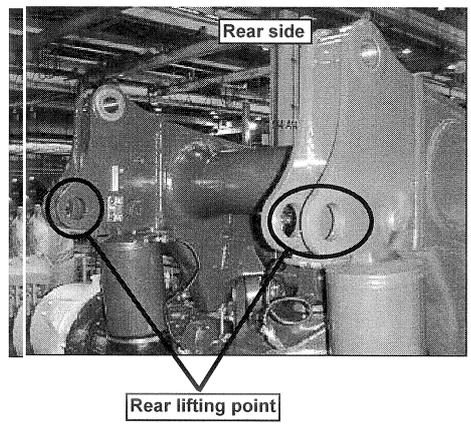
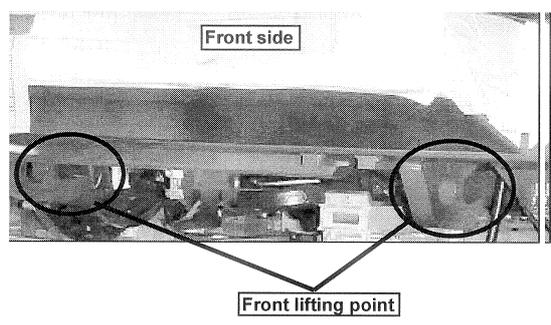
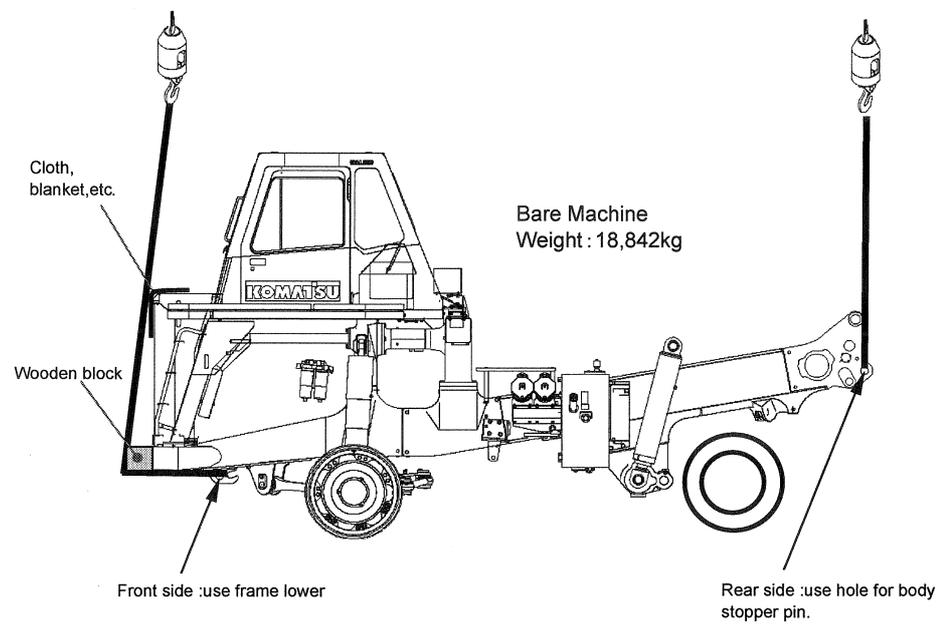
| Lubrication point | Type of oil | Specified q'ty (ℓ) | Refill capacity (ℓ) | Volume of refilled oil (ℓ) |
|-----------------------------|-----------------|-----------------------------------|-----------------------------------|----------------------------|
| Engine oil pan | Engine oil | 58 | 50 | |
| Transmission case | Power train oil | 211 | 90 | |
| Steering and hoist oil tank | | 165 | 129 | 70 |
| Front suspension | Hydraulic oil | 13.8 each on right and left sides | 13.8 each on right and left sides | |
| Rear suspension | | 8.3 each on right and left sides | 8.3 each on right and left sides | |
| Differential case | Power train oil | 50 | 45 | |
| Final drive case | | 15 each on right and left sides | 15 each on right and left sides | |
| Fuel tank | Diesel fuel | 500 | 484 | |
| Cooling system | Super coolant | 138 | 134 | |

Caution) Before starting the engine, be sure to check each oil/coolant level.

Do not steer the machine largely before adjusting the suspension
(If it is steered largely, the piping may be damaged).

| | |
|----------------------|------------------------------|
| Assembly process No. | Slinging bare machine |
| 0030 | |

Carry out when tires are not installed



1. When slinging the chassis, apply cloths to protect it.
2. Lift up chassis using 25 tons crane for front side and 25 tons crane for rear side.
 - Sling : Chain sling (ATH-465-040) or wires 28 mm in diameter
 - Front hanging point: Hanging bracket of bumper
 - Rear hanging point: Mounting part of body lock pin (Use pin 6 mm in diameter × 250 or body lock pin)
 - Part No.: 569-74-61670 (Red)

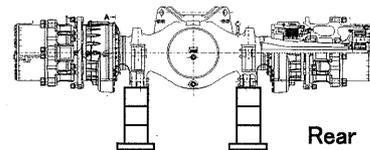
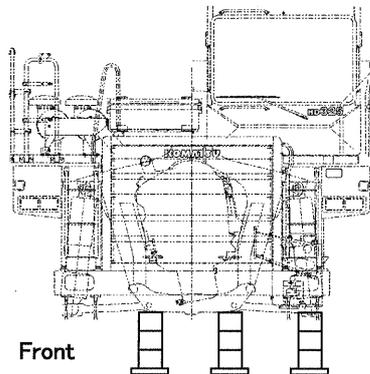
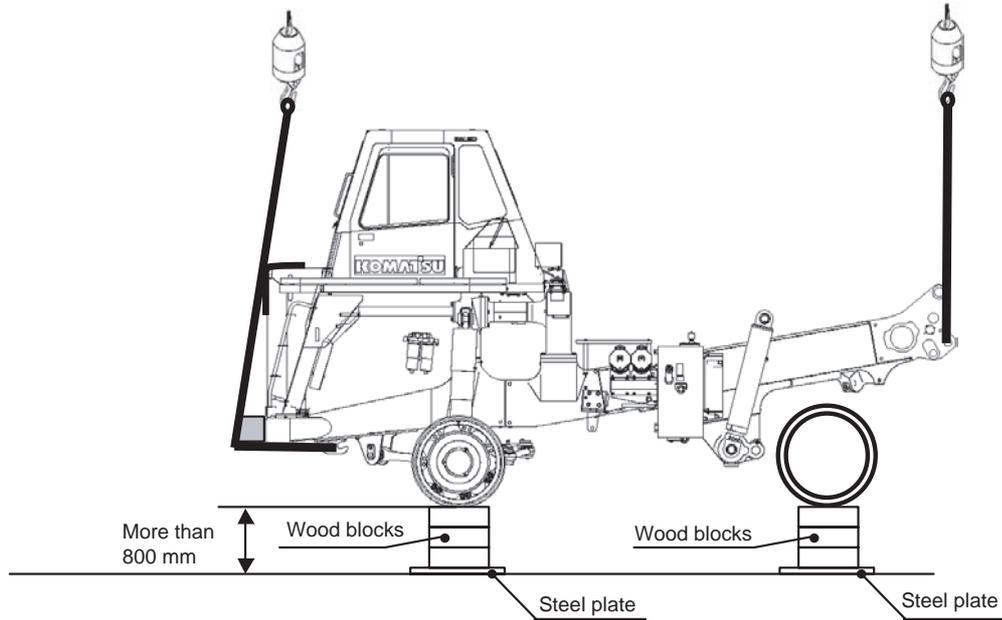
| Precautions | Necessary tools | | Necessary equipment | |
|---------------|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| | | | ATH-465-040 | 2 |
| | | | Crane: 25 ton | 2 |
| | | | | |
| | | | | |
| | | | | |
| Other remarks | | | | |

Assembly process No.

Positioning bare machine

0040

Carry out when tires are not installed

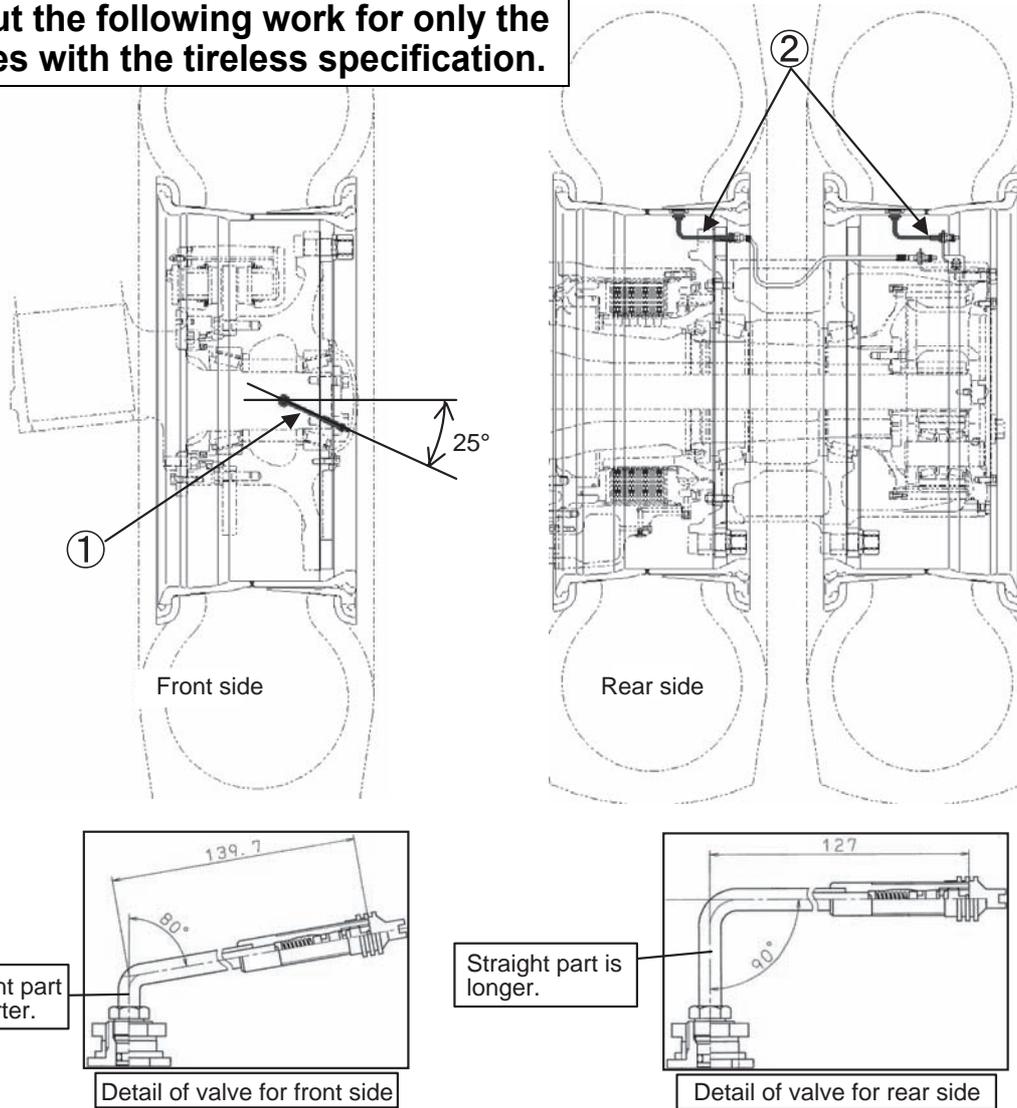


1. Position the frame vertical of the bare machine on wood blocks as shown above.
(Secure the clearance above the ground as shown above so that you can install the front tires.)
When positioning the bare machine on the ground, place a steel plate under the wood blocks so that the bare machine will not sink and lean.
2. Remove the sling.

| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| Choose a flat large place Take care that the chassis will not move. Set the bare machine to proper height so that you can install the front tires. | | | | |
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| Other remarks | | | | |

| | |
|----------------------|--|
| Assembly process No. | Assembly of tire and wheel assembly |
| 0045 | |

Carry out the following work for only the machines with the tireless specification.



1. Install valves (1) (having the longer straight part) to the rim on the front side.
2. Install valves (2) (having the shorter straight part) to the rims on the rear side.

* Install the valves to the right and left sides.

| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|----------------|------|---------------------------------------|
| (1) | 566-30-81601 | Valve assembly | 2 | Loose-supply item (Packed separately) |
| (2) | 566-30-82600 | Valve assembly | 4 | Loose-supply item (Packed separately) |

| Precautions | Necessary tools | | Necessary equipment | |
|---|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. When installing the valves for the front and rear sides, take care not to mistake them for each other. | | | | |
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| Other remarks | | | | |

Assembly process No.

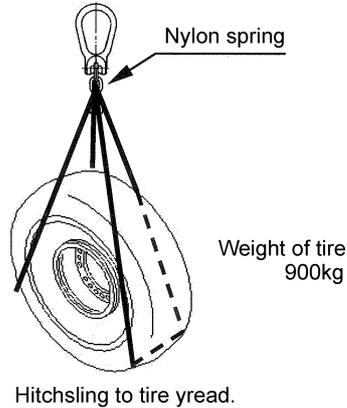
Installing tire and wheel assembly

0050

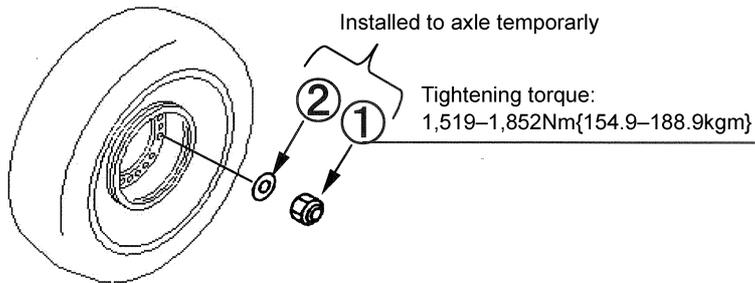
Carry out when tires are not installed

Install 2 tires for front right and left, 2 tires for rear right and left.

<How to sling tire and wheel assembly>



<Image of mounting tire>

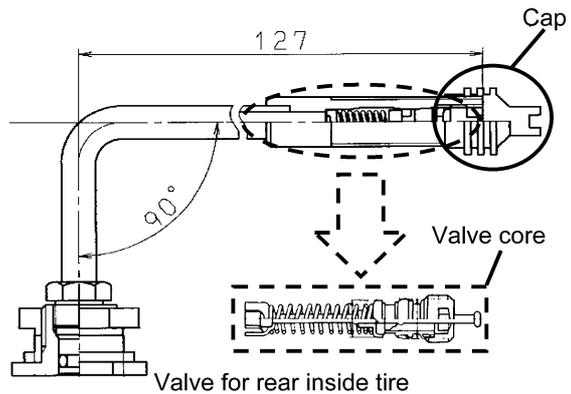
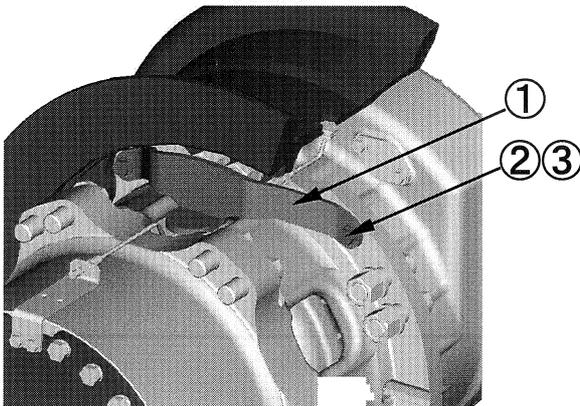


| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|-----------|------|-------------------------------|
| (1) | 569-22-72870 | Nut | 72 | Temporarily installed to axle |
| (2) | 426-09-11520 | Washer | 72 | Temporarily installed to axle |

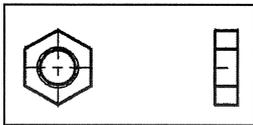
1. Remove the nuts (1) and washers (2) installed to the axle temporarily.
2. Install the tire with the forklift and then install the nuts (1) and washers (2).
 Note) • Take care that the tire will not fall from the forklift.
 • When positioning the tire, take care not to damage the valve for inflating the tire.
 • Before installing the rear outside tires, be sure to install the extension.
 (For the method of installing the extension, see the next page.)
3. Tighten the nuts (1) with the impact wrench temporarily.
4. Lift up the part of the chassis with the crane and remove the wood blocks.
5. Tighten the tire mounting nuts (1) with the torque wrench.
 (Tightening torque: 1,519 – 1,852 Nm {154.9 – 188.9 kgm})
6. Touch up the tightened parts (to prevent rusting).
 (Use the yellow paint used for the body.)

| Precautions | Necessary tools | | Necessary equipment | |
|--|--------------------------------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. When carrying the tire, take care that it will not fall. 2. Take care not to damage the body with the forklift mast. 3. When positioning the tire, take care not to damage the air valve. 4. When inflate the air to rear inside tire, use the extension (566-30-82131). | Torque wrench QLE21000 or equivalent | 1 | | |
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| Other remarks | | | | |

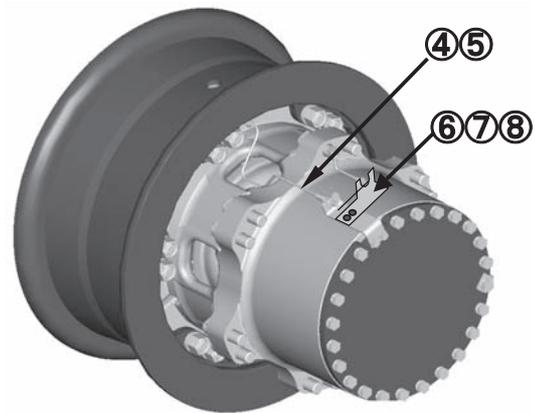
| | |
|----------------------|---|
| Assembly process No. | Installing rear tire valve extension |
| 0060 | |



Use the cap and valve core which removed from inside tire, for rear outside tire.



The screw attached to extension



When do this work wear safety glasses

1. Remove (1) – (3) from rear axle, installed temporary.
2. Remove the cap of rear inside tire valve.
3. Remove valve core, using the tip of cap which removed.
4. Install the screw which attached to (4) to rear inside tire, with packing outward.
5. Install (4).
6. Lock (4), using screw which attached to (4).
7. Install (1) – (3) to original place.
8. Install plates (6), (7) and (8).

| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|-----------|------|---------------------------------------|
| (1) | 566-22-82750 | Cover | 2 | Temporarily installed to rear axle |
| (2) | 01010-61645 | Bolt | 4 | Temporarily installed to rear axle |
| (3) | 01643-51645 | Washer | 4 | Temporarily installed to rear axle |
| (4) | 566-30-82131 | Extension | 2 | Loose-supply item (Packed separately) |
| (5) | 01640-21223 | Washer | 4 | Loose-supply item (Packed separately) |
| (6) | 566-30-81713 | Plate | 2 | Loose-supply item (Packed separately) |
| (7) | 01024-80820 | Bolt | 4 | Loose-supply item (Packed separately) |
| (8) | 01643-31032 | Washer | 4 | Loose-supply item (Packed separately) |

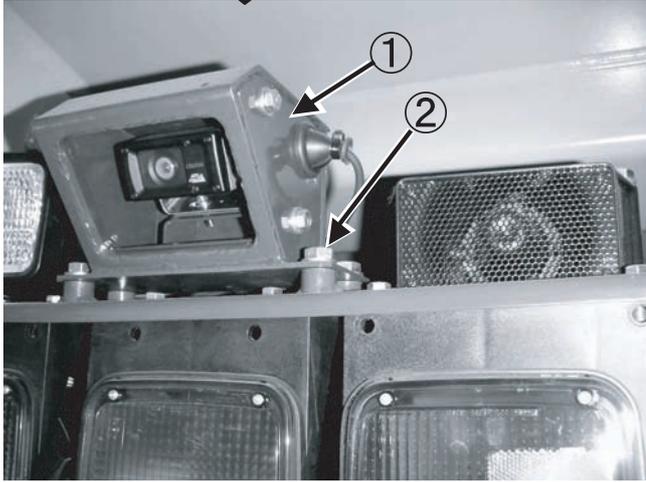
| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. Do this work before installed the outside tire. 2. Wear safety glasses. 3. When remove the cap from valve, take care that inflation pressure is high. 4. When install the screw attached to extension, with packing outward. | Safety glasses | | | |
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| Other remarks | | | | |

Assembly process No.

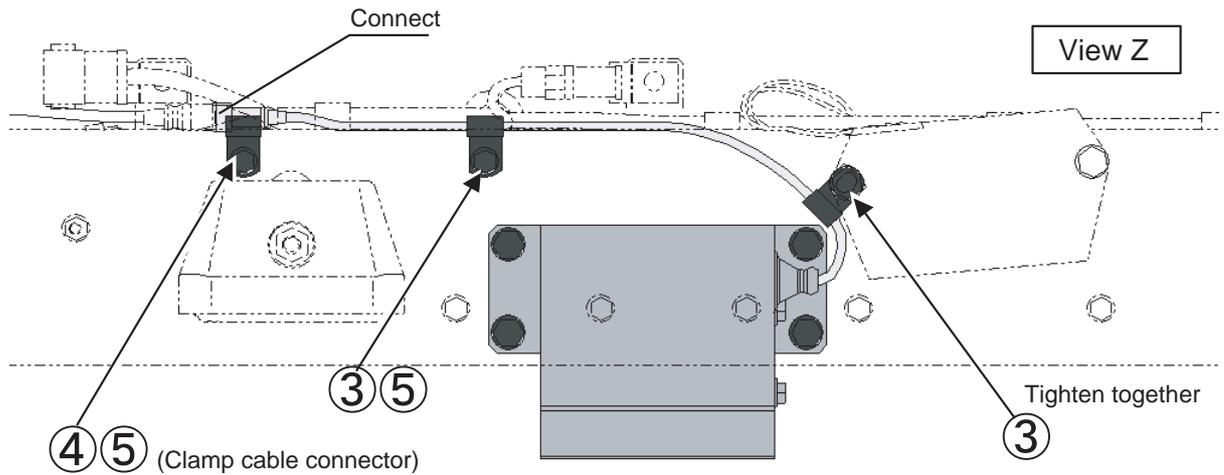
Installing rear monitor

0065

Z
↓



1. Remove bolts (2), clips (3) and (4), and bolts (5) installed temporarily to the rear lamp assembly.
2. Install rear monitor assembly (1) and fix it with bolts (2).
3. Connect the rear monitor cable.
4. Fix the rear monitor cable as shown in View Z.



| | Part No. | Part name | Q'ty | State of parts (Parts list No.) |
|-----|--------------|-----------------------|------|---|
| (1) | 561-86-8310A | Rear monitor assembly | 1 | Packed separately (H37-08-010) |
| (2) | 01024-81020 | Bolt | 4 | Installed to rear lamp assembly temporarily |
| (3) | 04434-50610 | Clip | 2 | Installed to rear lamp assembly temporarily |
| (4) | 04434-51810 | Clip | 1 | Installed to rear lamp assembly temporarily |
| (5) | 01024-81016 | Bolt | 2 | Installed to rear lamp assembly temporarily |

Precautions

Necessary tools

Necessary equipment

Name

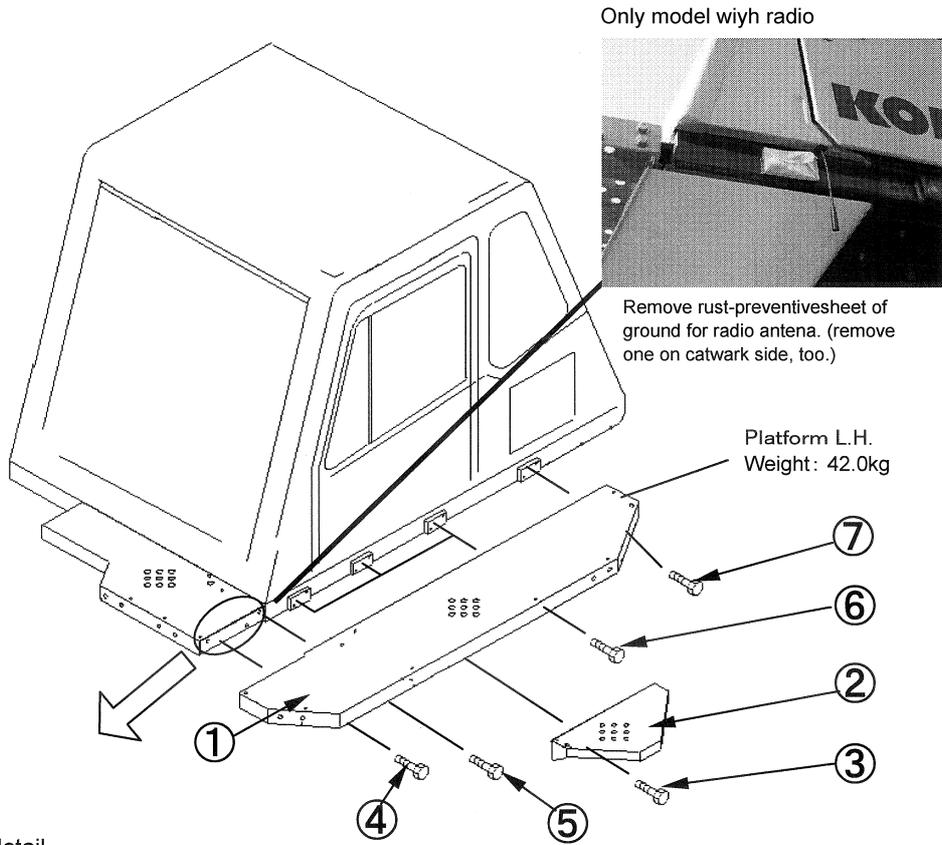
Q'ty

Name

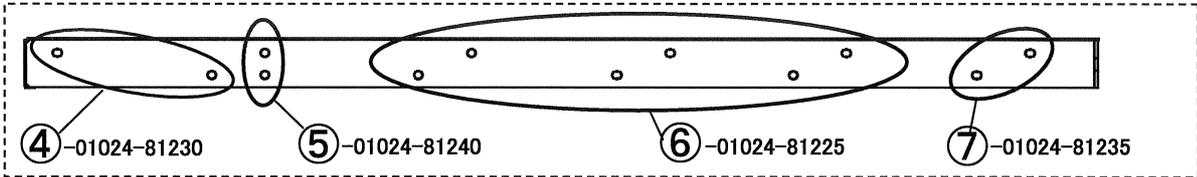
Q'ty

Other remarks

| | |
|----------------------|--------------------------------|
| Assembly process No. | Installing L.H platform |
| 0080 | |



Bolt installing detail



1. Remove (4) – (7) temporarily installed to the chassis.
2. Install left platforms (1) – (7) as shown above.

Note) Take care of the inserting positions of the bolts.

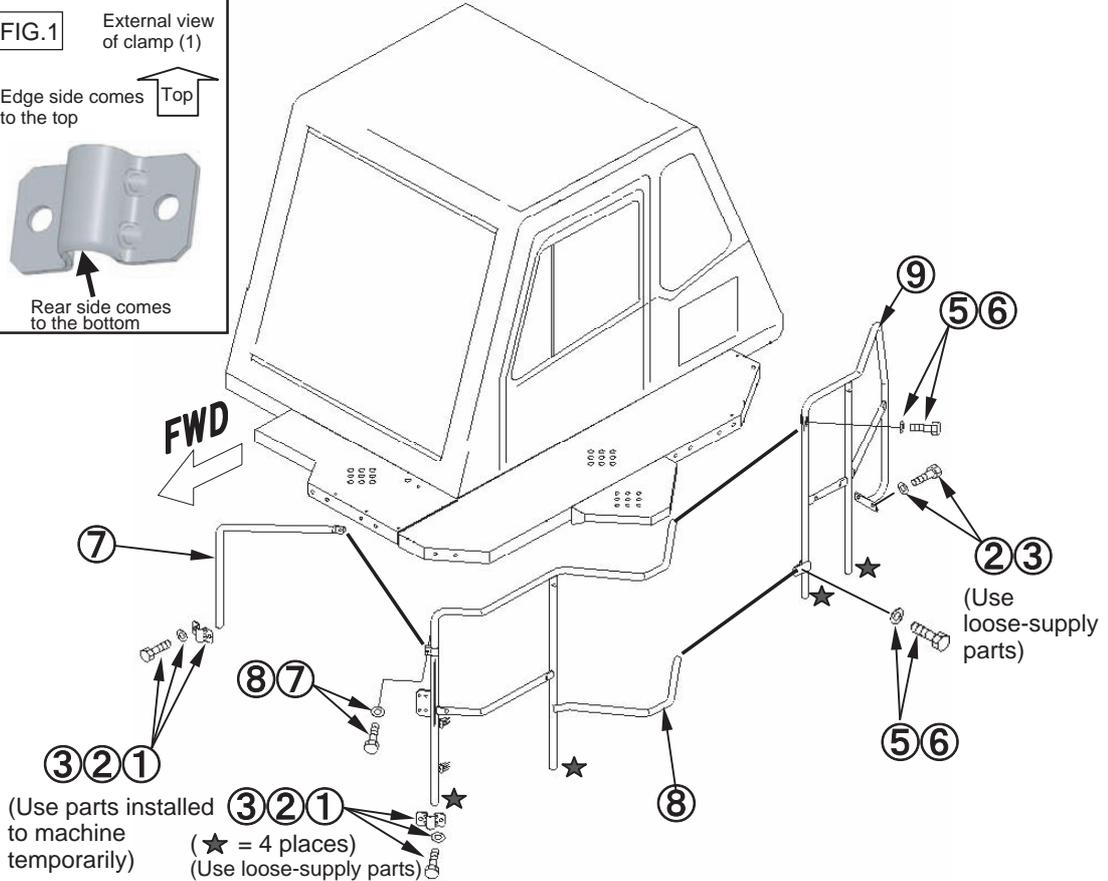
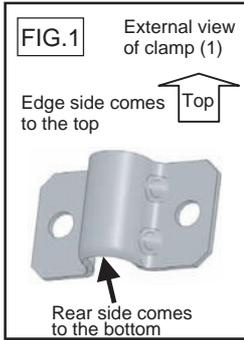
| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|-----------|------|---------------------------------------|
| (1) | 566-54-8A711 | Step | 1 | Loose-supply item (Packed separately) |
| (2) | 561-54-81820 | Step | 1 | Loose-supply item (Packed separately) |
| (3) | 01024-81230 | Bolt | 4 | Loose-supply item (Packed separately) |
| (4) | 01024-81230 | Bolt | 2 | Temporarily installed to chasis |
| (5) | 01024-81240 | Bolt | 2 | Temporarily installed to chasis |
| (6) | 01024-81225 | Bolt | 6 | Temporarily installed to chasis |
| (7) | 01024-81235 | Bolt | 2 | Temporarily installed to chasis |

| Precautions | Necessary tools | | Necessary equipment | |
|---|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. If the radio is installed, remove the rust-preventive sheets. 2. Take care of the inserting positions of the bolts. | | | | |
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| Other remarks | | | | |

Assembly process No.

Installing L.H handrail

0090



| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|-----------|------|--|
| (1) | 561-54-61910 | Clamp | 5 | Installed to machine temporarily: 1 pc., Loose-supply parts (Packed separately): 4 pcs. |
| (2) | 01010-81635 | Bolt | 12 | Installed to machine temporarily: 2 pcs., Loose-supply parts (Packed separately): 10 pcs. |
| (3) | 01643-31645 | Washer | 12 | Installed to machine temporarily: 2 pcs., Loose-supply parts (Packed separately): 10 pcs. |
| (5) | 01010-81240 | Bolt | 3 | Loose-supply item (Packed separately) |
| (6) | 01643-31232 | Washer | 3 | Loose-supply item (Packed separately) |
| (7) | 566-54-8A771 | Guard | 1 | Loose-supply item (Packed separately) |
| (8) | 566-54-86712 | Guard | 1 | Loose-supply item (Packed separately) |
| (9) | 566-54-86721 | Guard | 1 | Loose-supply item (Packed separately) |

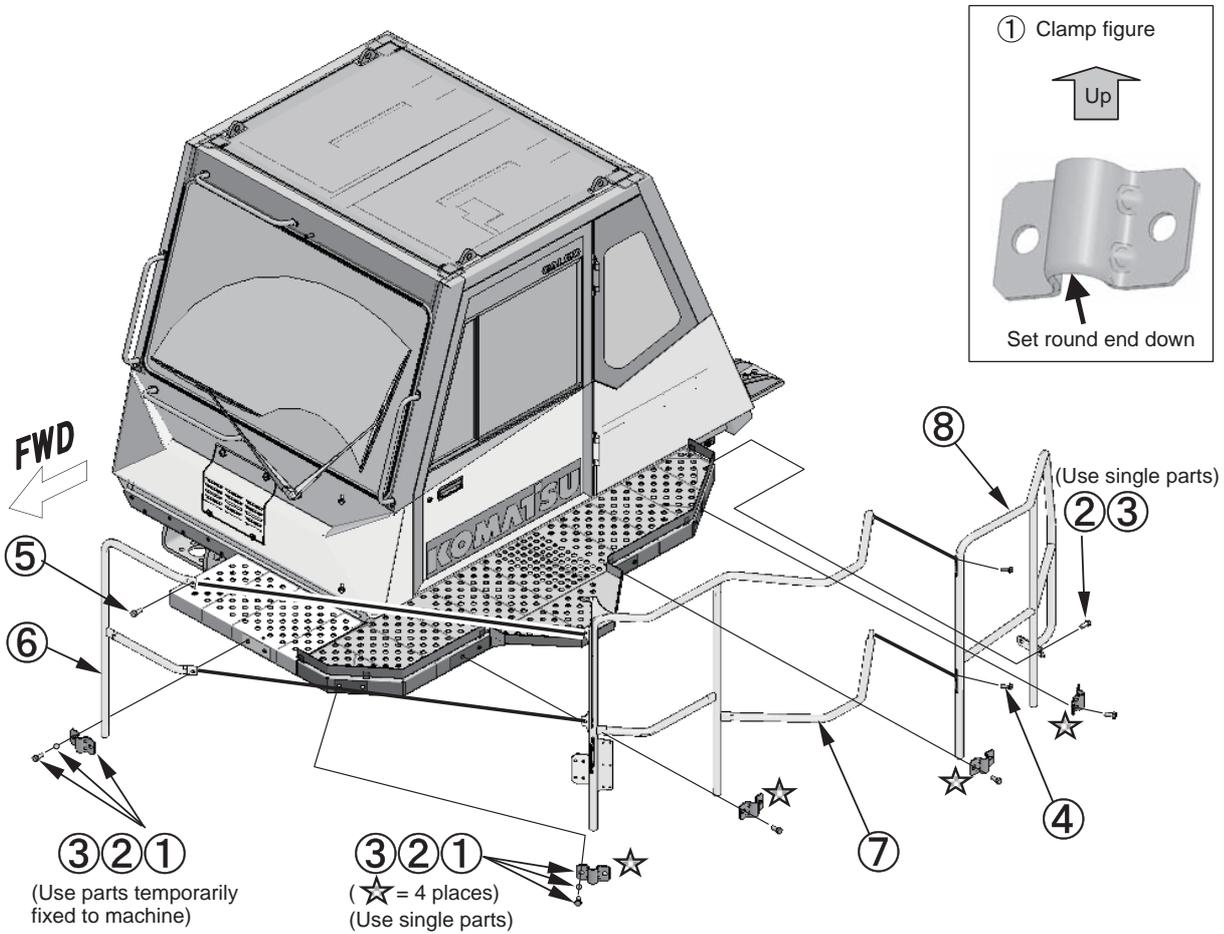
1. Remove (1) – (3) installed temporarily to the left platform and chassis.

2. Install handrails (1) – (9) as shown above.

Note) When installing the handrails, do not project them down from the rear side of the clamp.

| Precautions | Necessary tools | | Necessary equipment | |
|---|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. The handrails must not be projected down from the rear side of the clamps. | | | | |
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| Other remarks | | | | |

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|----------------------|--|
| Assembly process No. | Installation of left handrail (Diagonal ladder specification) |
| 0091 | |



1. Remove (1) – (3) temporarily fixed to the left platform and machine body.
2. Install left handrails (1) – (8) as shown in the above figure.

Note) When installing each handrail, do not project it from the round end of the clamp.

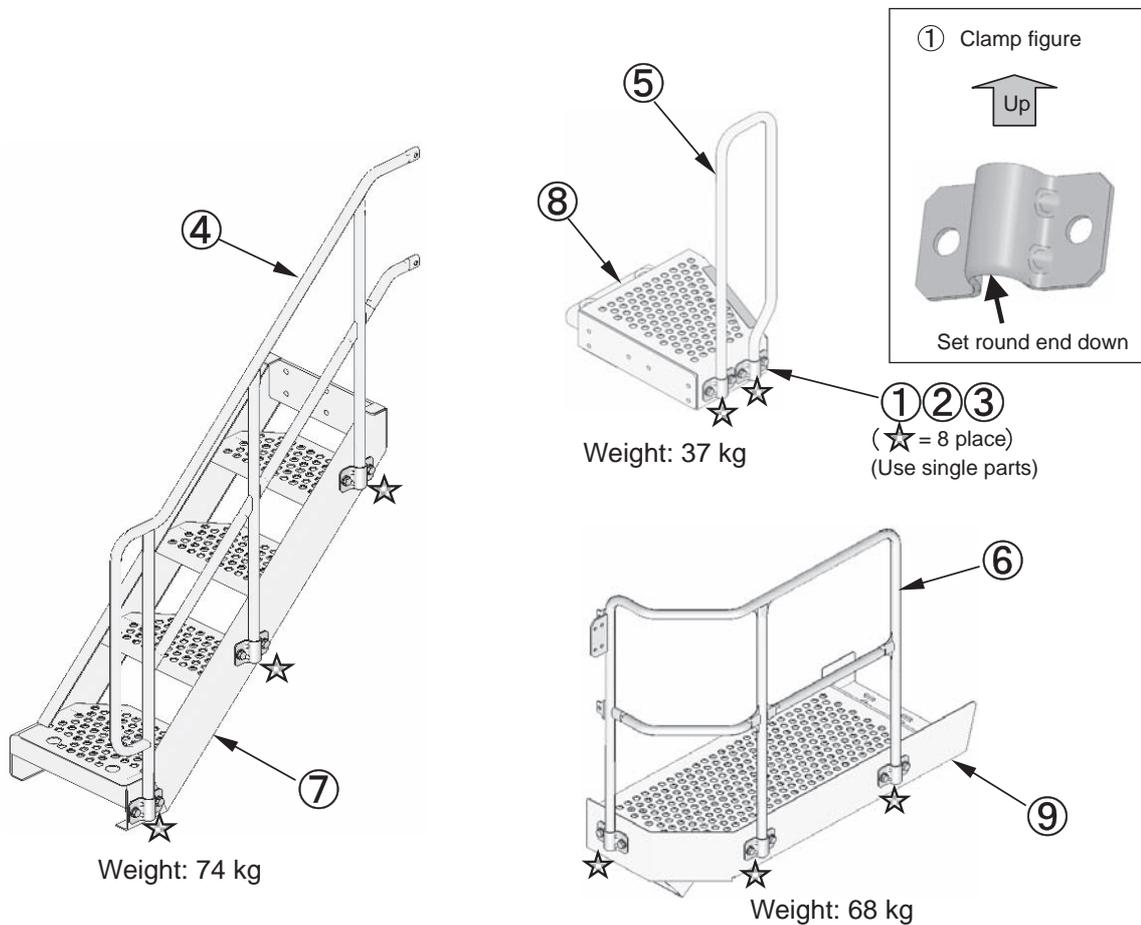
| | Part No. | Part name | Q'ty | State of parts (Parts list No.) |
|-----|--------------|------------|------|-------------------------------------|
| (1) | 561-54-61910 | Clamp | 5 | Temporarily fixed to machine x 1 |
| | | | | Packed separately (H37-03-021) x 4 |
| (2) | 01010-81635 | Bolt | 12 | Temporarily fixed to machine x 2 |
| | | | | Packed separately (H37-03-021) x 10 |
| (3) | 01643-31645 | Washer | 12 | Temporarily fixed to machine x 2 |
| | | | | Packed separately (H37-03-021) x 10 |
| (4) | 01024-81240 | Bolt, sems | 2 | Packed separately (H37-03-021) |
| (5) | 01024-81245 | Bolt, sems | 2 | Packed separately (H37-03-021) |
| (6) | 566-89-88870 | Guard | 1 | Packed separately (H37-03-021) |
| (7) | 569-89-88890 | Guard | 1 | Packed separately (H37-03-021) |
| (8) | 569-54-88590 | Guard | 1 | Packed separately (H37-03-021) |

| Precautions | Necessary tools | | Necessary equipment | |
|--|--------------------------------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. Each handrail must not project from the round end of the clamp. | Nylon sling (Width: 250 mm x 5 m) | 1 | Crane (25 tons) | 1 |
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| Other remarks Sale code : 5AC11 (EC regulation) | | | | |

Assembly process No.

0095

**Installation of diagonal ladder
(Diagonal ladder specification)**

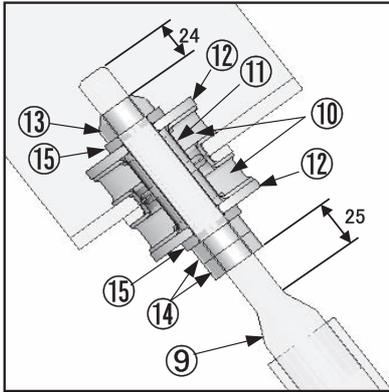


1. Install diagonal ladders (1) – (9) as shown in the above figure.
 Note) When installing each handrail, do not project it from the round end of the clamp.

| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|-----------|------|--------------------------------|
| (1) | 561-54-61910 | Clamp | 8 | Packed separately (H37-03-110) |
| (2) | 01010-81635 | Bolt | 16 | Packed separately (H37-03-110) |
| (3) | 01643-31645 | Washer | 16 | Packed separately (H37-03-110) |
| (4) | 566-89-88850 | Guard | 1 | Packed separately (H37-03-110) |
| (5) | 569-54-8A660 | Guard | 1 | Packed separately (H37-03-110) |
| (6) | 566-89-88860 | Guard | 1 | Packed separately (H37-03-110) |
| (7) | 566-89-88810 | Step | 1 | Packed separately (H37-03-110) |
| (8) | 566-89-88820 | Step | 1 | Packed separately (H37-03-110) |
| (9) | 566-89-88830 | Step | 1 | Packed separately (H37-03-110) |

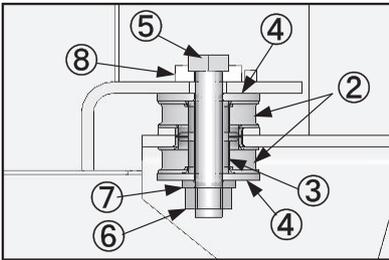
| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. Each handrail must not project from the round end of the clamp. | | | | |
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| Other remarks Sale code : 5AC11 (EC regulation) | | | | |

| | |
|----------------------|--|
| Assembly process No. | Installation of diagonal ladder 1 (Diagonal ladder specification) |
| 0096 | |



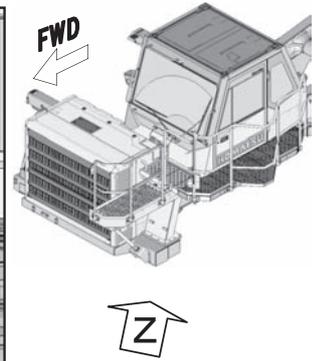
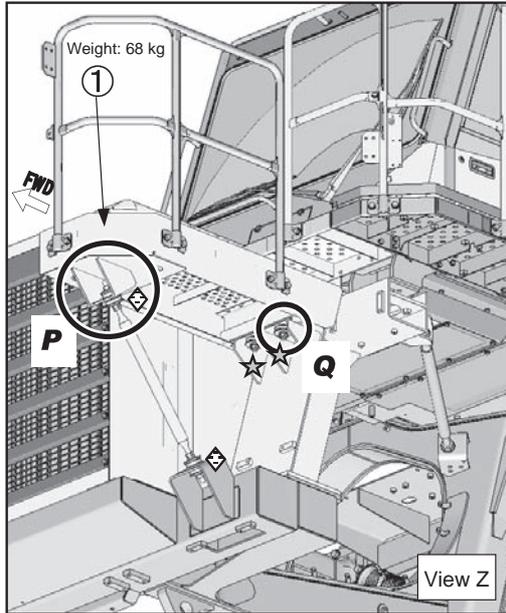
Section of part P

* ◆ marks : 2 places



Section of part Q

* ★ marks : 2 places



* Tightening torque for (6), (13) and (14): 490 – 608 Nm {50 – 62 kgm}

1. Install step assembly (1) as shown in the above figure.

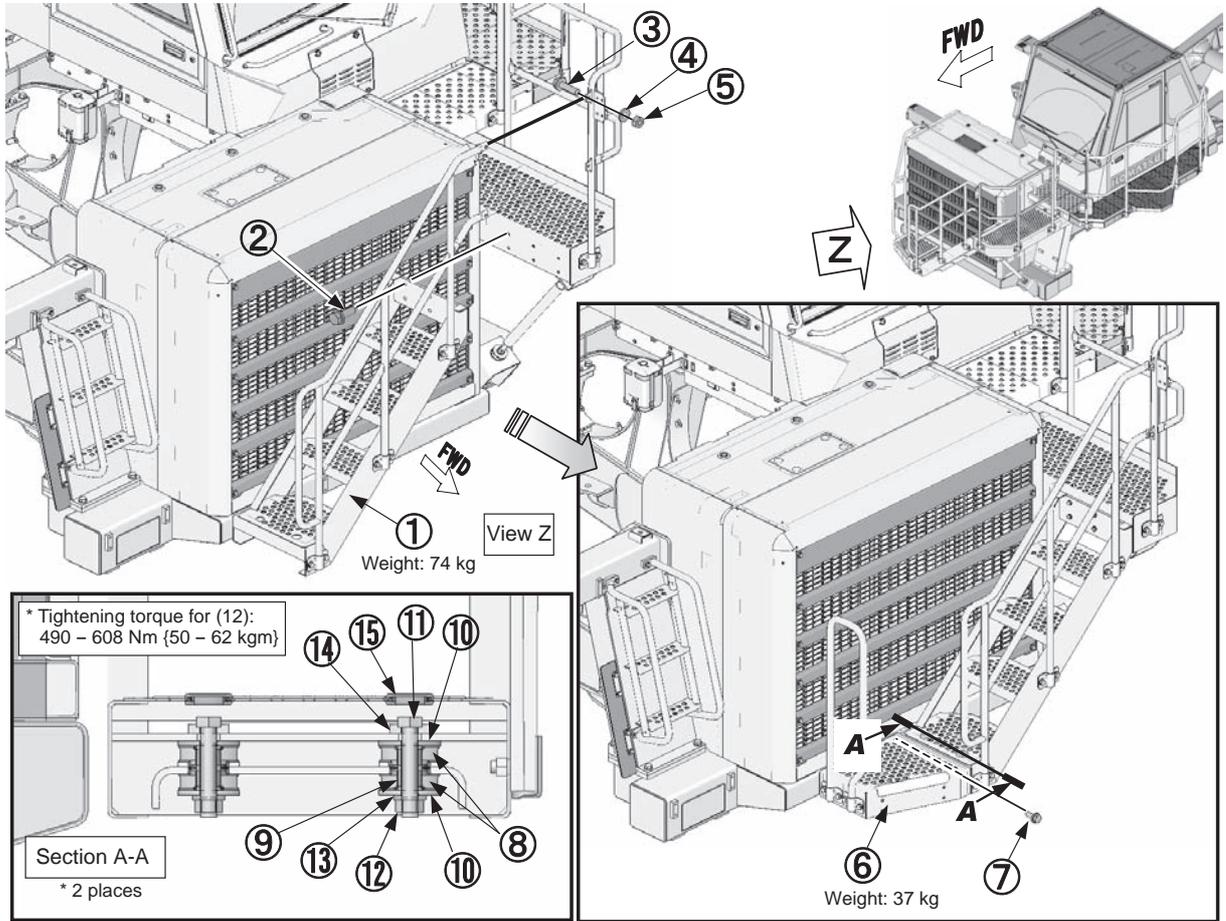
| | Part No. | Part name | Q'ty | State of parts (Parts list No.) |
|------|----------------|---------------|------|---|
| (1) | (566-89-88830) | Step assembly | 1 | See Field installation instruction No. 0095 |
| (2) | 566-54-12212 | Cushion | 4 | Packed separately (H37-03-120) |
| (3) | 566-54-21910 | Bushing | 2 | Packed separately (H37-03-120) |
| (4) | 566-54-21920 | Plate | 4 | Packed separately (H37-03-120) |
| (5) | 01011-82015 | Bolt | 2 | Packed separately (H37-03-120) |
| (6) | 01580-12016 | Nut | 2 | Packed separately (H37-03-120) |
| (7) | 01643-32060 | Washer | 2 | Packed separately (H37-03-120) |
| (8) | 566-54-21931 | Plate | 2 | Packed separately (H37-03-120) |
| (9) | 569-54-8A790 | Rod | 1 | Packed separately (H37-03-120) |
| (10) | 566-54-12212 | Cushion | 4 | Packed separately (H37-03-120) |
| (11) | 566-54-21910 | Bushing | 2 | Packed separately (H37-03-120) |
| (12) | 566-54-21920 | Plate | 4 | Packed separately (H37-03-120) |
| (13) | 01597-02016 | Nut | 2 | Packed separately (H37-03-120) |
| (14) | 01583-12012 | Nut | 4 | Packed separately (H37-03-120) |
| (15) | 01643-32060 | Washer | 4 | Packed separately (H37-03-120) |

| Precautions | Necessary tools | | Necessary equipment | |
|---|--------------------------------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| 1. When installing the step, take care of the using position of the nylon sling. (If the nylon sling is used at the guard, the guard may come off. Accordingly, use at the step body.) | Nylon sling (Width: 250 mm x 5 m) | 1 | Crane (25 tons) | 1 |
| | | | | |
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| | | | | |
| Other remarks Sale code : 5AC11 (EC regulation) | | | | |

Assembly process No.

0097

Installation of diagonal ladder 2 (Diagonal ladder specification)



1. Install step assemblies (1) and (3) as shown in the above figure.

| | Part No. | Part name | Q'ty | State of parts (Parts list No.) |
|------|----------------|---------------|------|---|
| (1) | (566-89-88810) | Step assembly | 1 | See Field installation instruction No. 0095 |
| (2) | 01024-81235 | Bolt, sems | 6 | Packed separately (H37-03-130) |
| (3) | 01024-81245 | Bolt, sems | 2 | Packed separately (H37-03-130) |
| (4) | 01643-31232 | Washer | 2 | Packed separately (H37-03-130) |
| (5) | 01580-11210 | Nut | 2 | Packed separately (H37-03-130) |
| (6) | (566-89-88820) | Step assembly | 1 | See Field installation instruction No. 0095 |
| (7) | 01024-81230 | Bolt, sems | 6 | Packed separately (H37-03-130) |
| (8) | 566-54-12212 | Cushion | 4 | Packed separately (H37-03-130) |
| (9) | 566-54-21910 | Bushing | 2 | Packed separately (H37-03-130) |
| (10) | 566-54-21920 | Plate | 4 | Packed separately (H37-03-130) |
| (11) | 01011-82015 | Bolt | 2 | Packed separately (H37-03-130) |
| (12) | 01580-12016 | Nut | 2 | Packed separately (H37-03-130) |
| (13) | 01643-32060 | Washer | 2 | Packed separately (H37-03-130) |
| (14) | 566-54-21931 | Plate | 2 | Packed separately (H37-03-130) |
| (15) | 09415-03614 | Cap | 2 | Packed separately (H37-03-130) |

Precautions

- When installing the step, take care of the using position of the nylon sling.
(If the nylon sling is used at the guard, the guard may come off. Accordingly, use at the step body.)

Necessary tools

| Name | Q'ty |
|--------------------------------------|------|
| Nylon sling (Width: 250 mm x 5 m) | 1 |

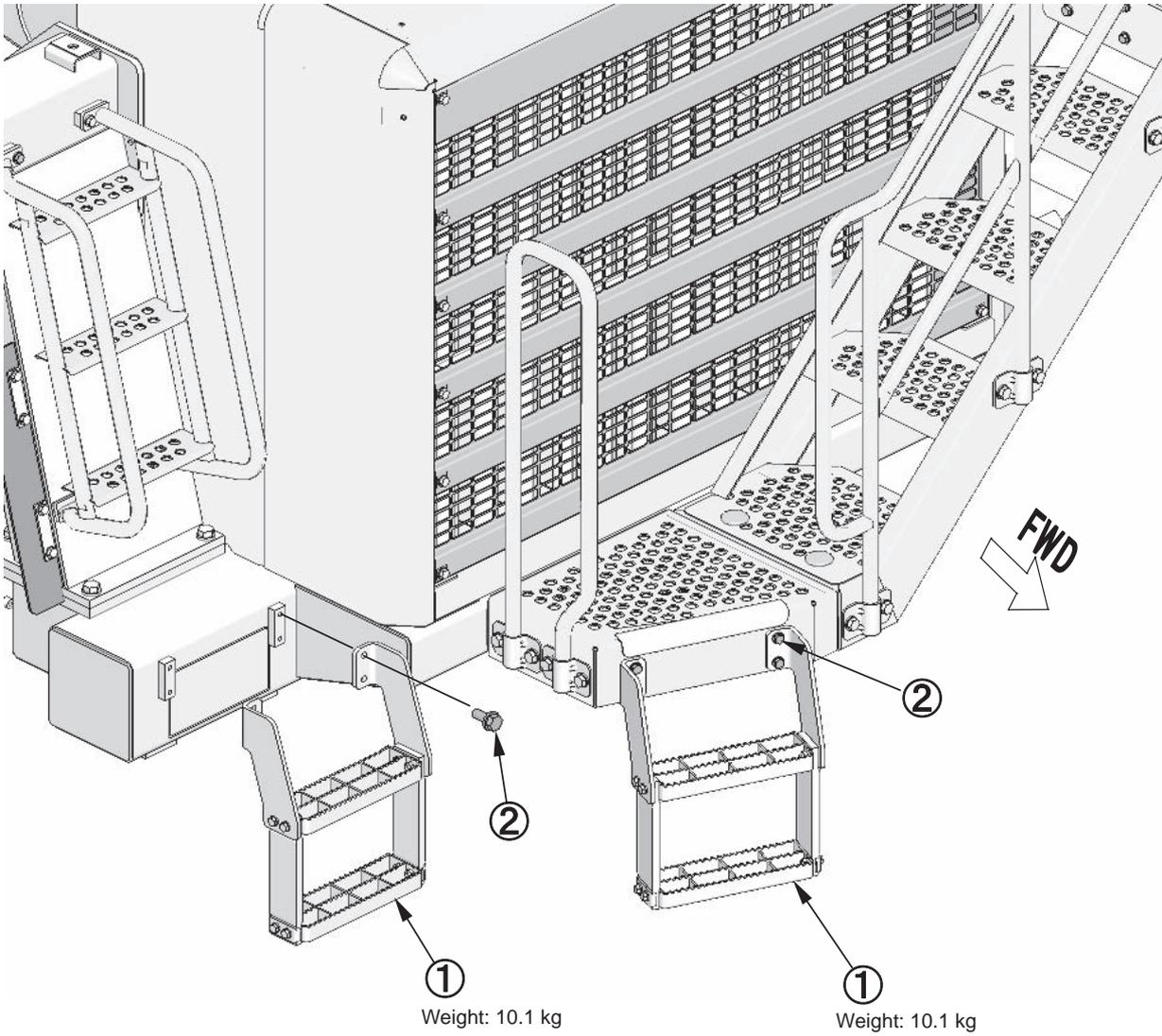
Necessary equipment

| Name | Q'ty |
|-----------------|------|
| Crane (25 tons) | 1 |

Other remarks

Sale code : 5AC11 (EC regulation)

| | |
|----------------------|--|
| Assembly process No. | Installation of diagonal ladder 3 (Diagonal ladder specification) |
| 0098 | |



1. Install step (1) as shown in the above figure.

| | Part No. | Part name | Q'ty | State of parts |
|-----|--------------|------------|------|--------------------------------|
| (1) | 569-54-8A510 | Step A. | 2 | Packed separately (H37-03-140) |
| (2) | 01024-81230 | Bolt, sems | 8 | Packed separately (H37-03-140) |

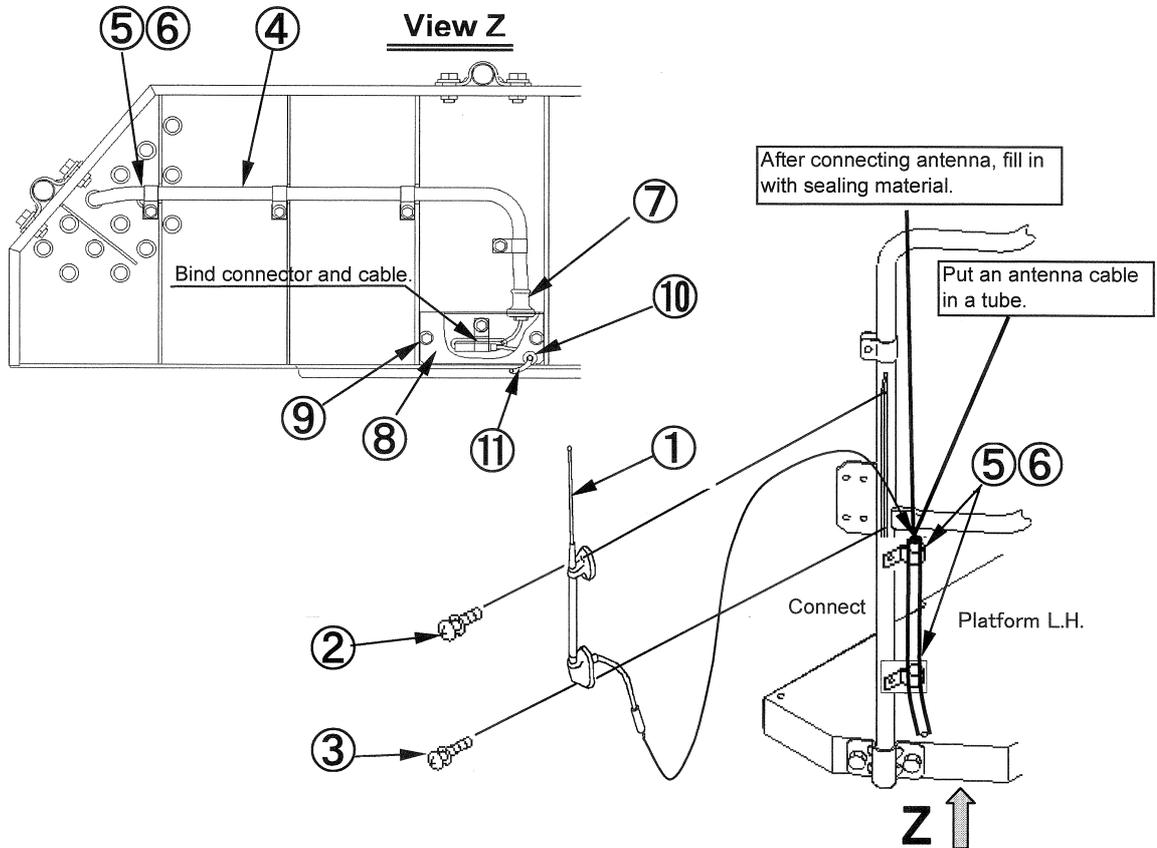
| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| Other remarks Sale code : 5AC11 (EC regulation) | | | | |

Assembly process No.

Installing radio antenna and fixing its cable

0100

Perform this work only when the radio is installed.

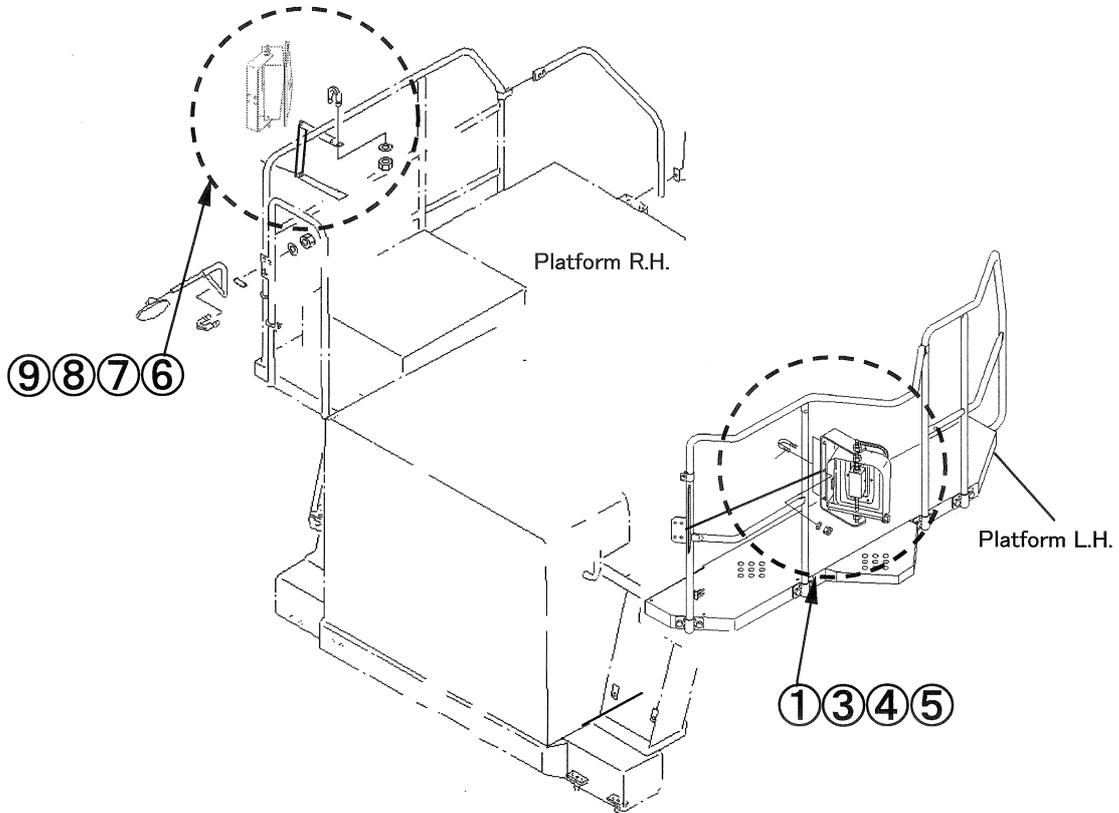


| | Part No. | Part name | Q'ty | State of parts |
|------|--------------|-------------|------|---------------------------------------|
| (1) | 175-911-6140 | Antenna | 1 | Loose-supply item (Separately packed) |
| (2) | 01225-40416 | Screw | 1 | Loose-supply item (Separately packed) |
| (3) | 01023-10420 | Screw | 1 | Loose-supply item (Separately packed) |
| (4) | 07270-51513 | Tube | 1 | Loose-supply item (Separately packed) |
| (5) | 04434-51910 | Clip | 7 | Loose-supply item (Separately packed) |
| (6) | 01435-01016 | Bolt | 7 | Loose-supply item (Separately packed) |
| (7) | 08037-11825 | Grommet | 1 | Loose-supply item (Separately packed) |
| (8) | 569-54-86940 | Cover | 1 | Loose-supply item (Separately packed) |
| (9) | 01435-01016 | Bolt | 2 | Loose-supply item (Separately packed) |
| (10) | 08037-01008 | Grommet | 1 | Loose-supply item (Separately packed) |
| (11) | 08210-00610 | Spiral tube | 1 | Loose-supply item (Separately packed) |

1. Install antennas (1) – (3) to the handrail installed to the left platform as shown above.
2. Connect the antenna cable coming from the cab to the cable coming from the antenna.
3. Install (4) – (11) as shown above.
4. Put the connected antenna cable in the tube.
5. Fill in the tube end with sealing material to prevent water from entering.

| Precautions | Necessary tools | | Necessary equipment | |
|---------------|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
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| Other remarks | | | | |

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| Assembly process No. | Installing side view mirrors |
| 0110 | |



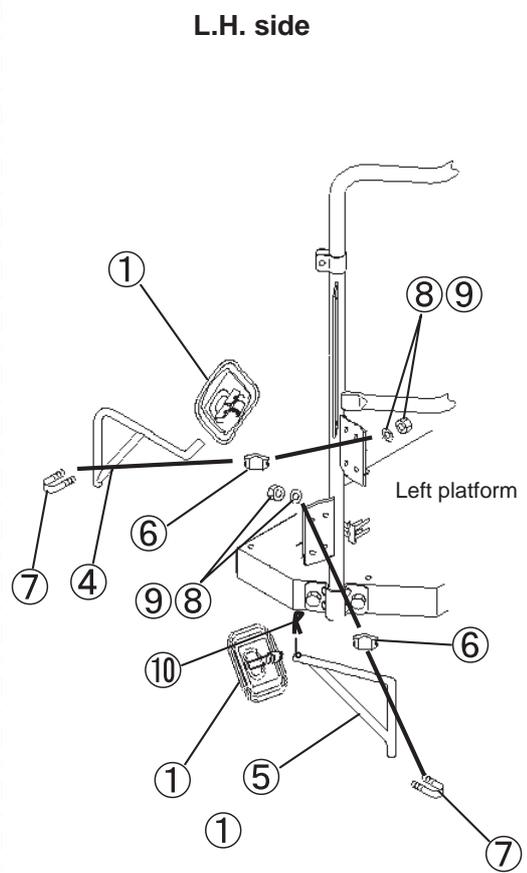
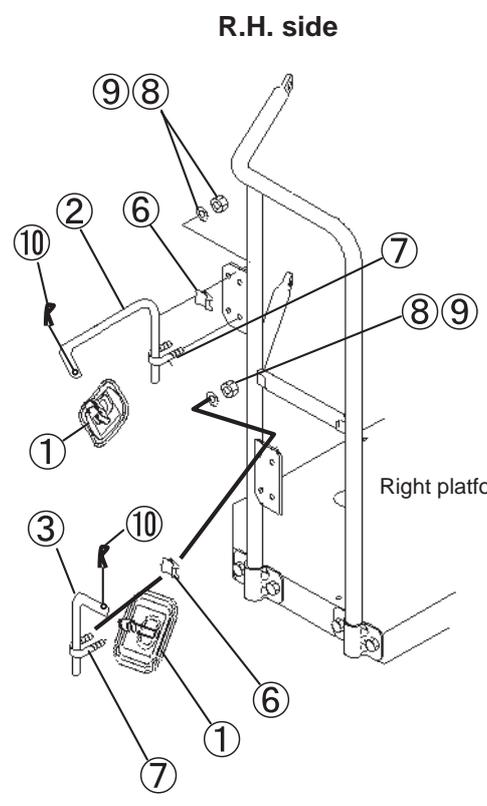
1. Install left sideview mirrors (1) – (5) to the handrail installed to the left platform as shown above.
2. Install the right sideview mirrors (6) – (9) to the handrail installed to the right platform as shown above.

| | Part No. | Part name | Q'ty | State of parts |
|-----|-------------|--------------------------|------|---------------------------------------|
| (1) | 07283-34346 | Clip | 2 | Loose-supply item (Packed separately) |
| (3) | 01597-01009 | Nut | 4 | Loose-supply item (Packed separately) |
| (4) | 01643-31032 | Washer | 4 | Loose-supply item (Packed separately) |
| (5) | | Wide mirror assembly L.H | 1 | Loose-supply item (Packed separately) |
| (6) | 07283-33442 | Clip | 2 | Loose-supply item (Packed separately) |
| (7) | 01597-01009 | Nut | 4 | Loose-supply item (Packed separately) |
| (8) | 01643-31032 | Washer | 4 | Loose-supply item (Packed separately) |
| (9) | | Wide mirror assembly R.H | 1 | Loose-supply item (Packed separately) |

| Precautions | Necessary tools | | Necessary equipment | |
|---------------|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
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| Other remarks | | | | |

Assembly process No
0120

**Installing under view mirrors
(For general overseas countries)**



1. Install right underview mirrors (1) – (3) and (6) – (10) to the handrail installed to the right platform as shown in the above figure.
2. Install left underview mirrors (1), (4) – (9) and (10) to the handrail installed to the left platform as shown in the above figure.

| | Part No. | Part name | Q'ty | State of parts |
|------|--------------|-----------|------|--|
| (1) | 23W-P86-2890 | Mirror | 4 | Loose-supply parts (Packed separately) |
| (2) | 566-54-87820 | Stay | 1 | Loose-supply parts (Packed separately) |
| (3) | 566-54-87830 | Stay | 1 | Loose-supply parts (Packed separately) |
| (4) | 566-54-87860 | Stay | 1 | Loose-supply parts (Packed separately) |
| (5) | 566-54-87870 | Stay | 1 | Loose-supply parts (Packed separately) |
| (6) | 07283-52232 | Seat | 8 | Loose-supply parts (Packed separately) |
| (7) | 07283-32236 | Clip | 8 | Loose-supply parts (Packed separately) |
| (8) | 01597-01009 | Nut | 16 | Loose-supply parts (Packed separately) |
| (9) | 01643-31032 | Washer | 16 | Loose-supply parts (Packed separately) |
| (10) | 04050-18045 | Pin | 3 | Loose-supply parts (Packed separately) |

| Precautions | Necessary tools | | Necessary equipment | |
|---------------|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| | | | | |
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| Other remarks | | | | |