

Field Assembly Instruction

BULLDOZER

D275AX-5E0

SERIAL NUMBERS 30001 and up

KOMATSU

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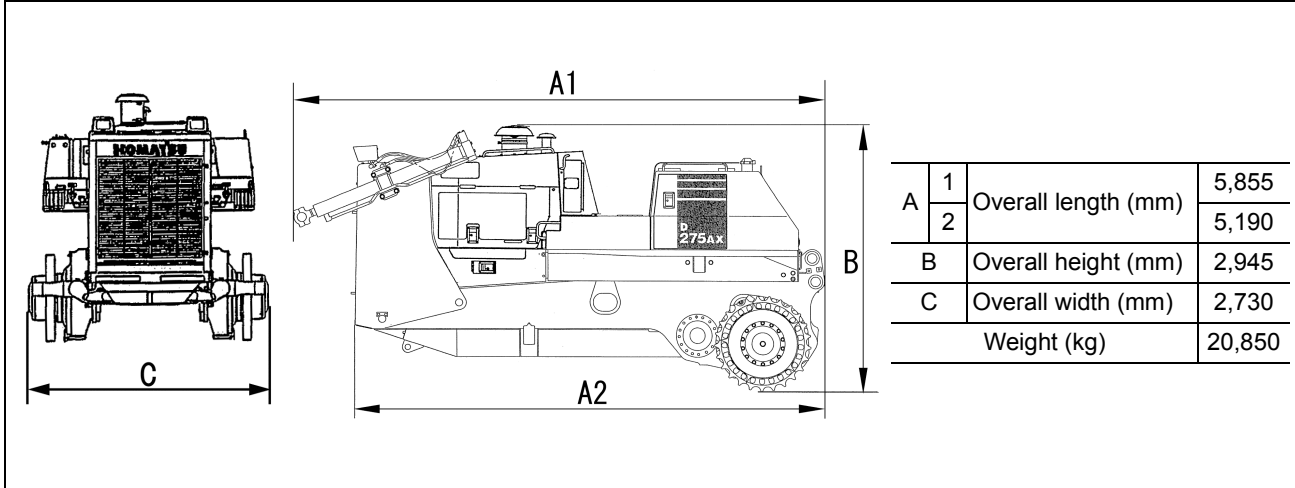
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Style for transportation

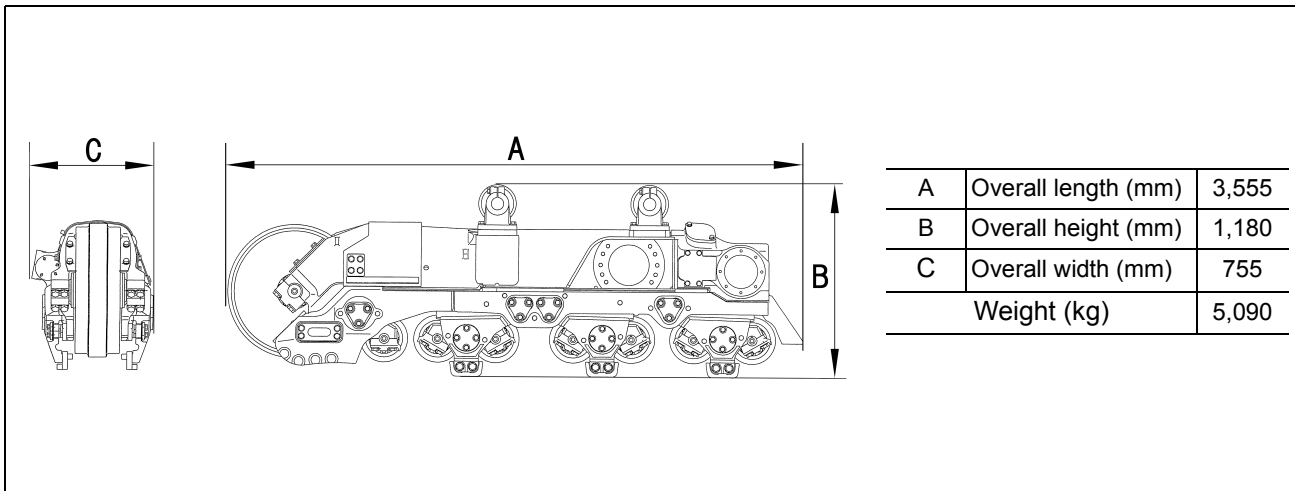
Since the machine can be divided for transportation, ask us or our service shop before transportation.

■ **Style of each KIT.**

• **Tractor (Body)**

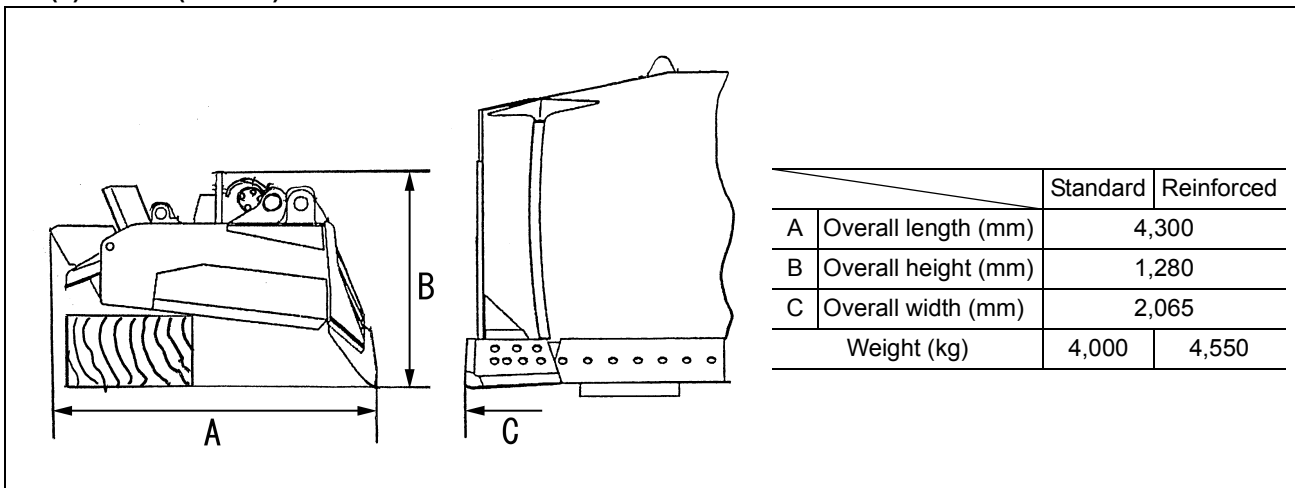


• **Track frame**



• **Work equipment**

(1) **Blade (semi U)**



Tightening torque

1. Tightening torque for bolts

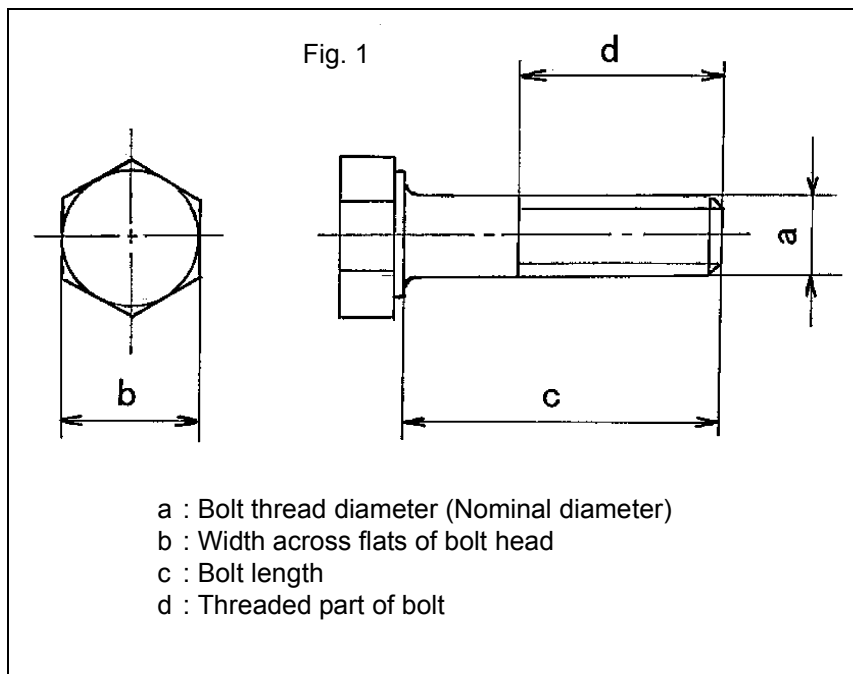
Tightening torque for bolts is indicated in the text as shown below. Tighten each bolt to the specified torque.

| | |
|--------------------|-------------------------------|
| Part No. of bolt | □□□□□-□□□□□ |
| Part No. of washer | △△△△△-△△△△△ |
| Bolt specification | Thread diameter × Bolt length |
| Tool (Socket) | Applicable socket size |
| Tightening torque | * * * Nm {○○○ kgm} |

If tightening torque for a bolt is not specified in the text, tighten it according to Table 1.

Remarks

- The thread diameter is the nominal diameter. For example, 16 mm is expressed as M16 and 26 mm is expressed as M20.
The pitch in Table 1 is the distance that the bolt advances every turn in the axial direction (Unit: mm).
- The bolt length is dimension c in Fig. 1.
- The applicable socket size is expressed as 24 mm, 30 mm, etc. Since 24 mm, 30 mm, etc. correspond to dimension b in Fig. 1, an applicable socket can be selected from Table 1, too.
- Tightening torque is expressed as ○○○ – ◎◎◎ or ○○○ ± ▽▽. If the target tightening torque is set, expression of ○○○ ± ▽▽ is applied.

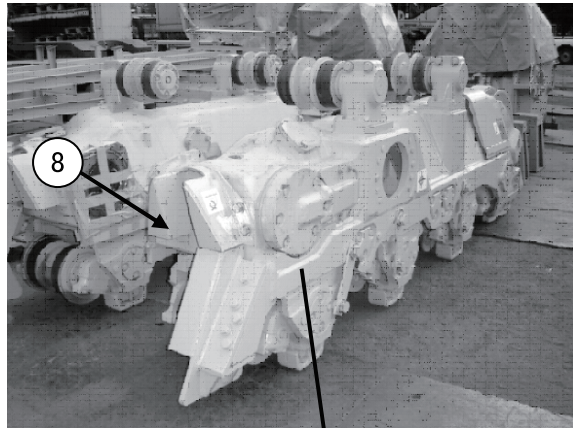
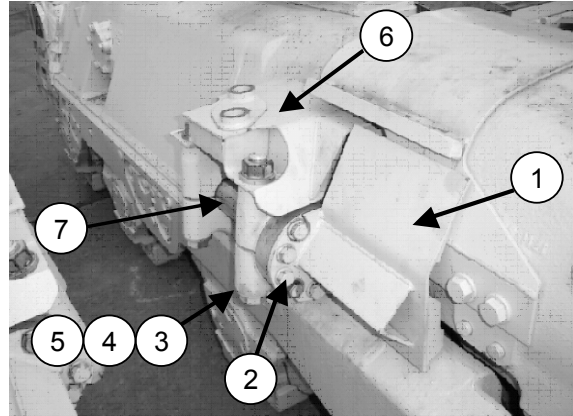


| | |
|----------------------|--|
| Assembly process No. | Installation of track frame (1/7) |
| A-2 | |

1. Removal of accessory parts of right and left track frames
 Weight of track frame (1 unit): 5,090 kg

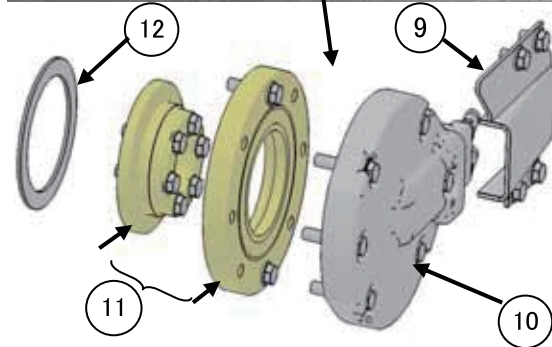
(Single tilt specification)

| No. | Part No. | Part name | Q'ty |
|-----|--------------------|--------------|------|
| 1 | 17M-50-41240 | Left cover | 1 |
| | 17M-50-41250 | Right cover | 1 |
| 2 | 17M-50-41181 | Left cover | 1 |
| | 17M-50-41192 | Right cover | 1 |
| 3 | 206-45-52120 | Bolt | 4 |
| 4 | 01643-32780 | Washer | 8 |
| 5 | 01580-02722 | Nut | 4 |
| 6 | 17M-50-41260 | Left cover | 1 |
| | 17M-50-41270 | Right cover | 1 |
| 7 | 17M-50-41140 | Shaft | 2 |
| 8 | 17M-30-52350 | Cover | 2 |
| 9 | 17M-50-51270 | Left cover | 1 |
| | 17M-30-51291 | Right cover | 1 |
| 10 | 17M-50-42140 | Left cover | 1 |
| | 17M-50-41212 | Right cover | 1 |
| 11 | Left 17M-50-22130 | Left washer | 1 |
| | Right 17M-50-42170 | Right washer | 1 |
| | Right 17M-50-42160 | Right washer | 1 |
| | Right 17M-50-25140 | Seal | 1 |
| | Right 17M-50-22240 | Seal | 1 |
| 12 | 17M-50-22230 | Spacer | 2 |



(Dual tilt specification) No. 1 – 8 shown above are common.

| | | | | |
|--------------|--------------|--------------|--------|---|
| 9 | 17M-50-51281 | Left cover | 1 | |
| | 17M-30-51291 | Right cover | 1 | |
| 10 | 17M-50-41212 | Cover | 2 | |
| 11 | Left | 17M-50-42160 | Washer | 1 |
| | | 17M-50-42170 | Washer | 1 |
| | | 17M-50-25140 | Seal | 1 |
| | Right | 17M-50-22240 | Seal | 1 |
| | | 17M-50-42160 | Washer | 1 |
| 17M-50-42170 | | Washer | 1 | |
| | 17M-50-25140 | Seal | 1 | |
| | 17M-50-22240 | Seal | 1 | |

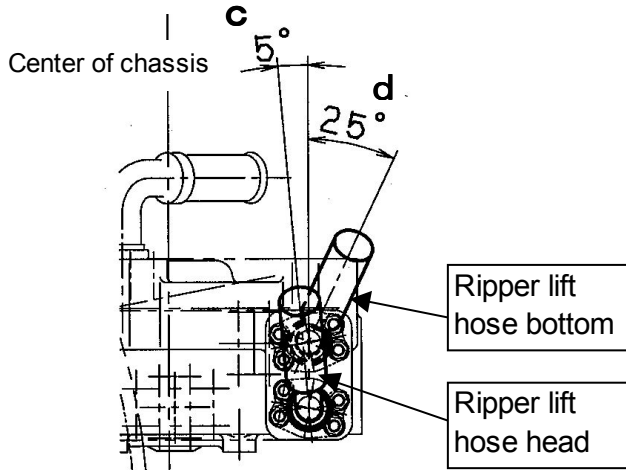


* Washer + Seal assembly for other than left of single-tilt model

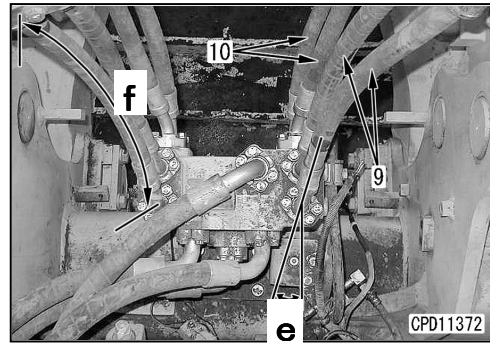
| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| ☆ Loosen split flange coupling bolt (3) and nut (5) of the equalizer bar side pin so that mudguard (6) is installed temporarily. | | | 25-ton crane | 1 |
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| | | | | |
| Other remarks | | | | |

Installation of ripper (4/7)

- (3) Connect each lift cylinder hose (10) to the block at the rear of the chassis and set the angle between its adapter and chassis to "c" (5 degrees) or "d" (25 degrees).

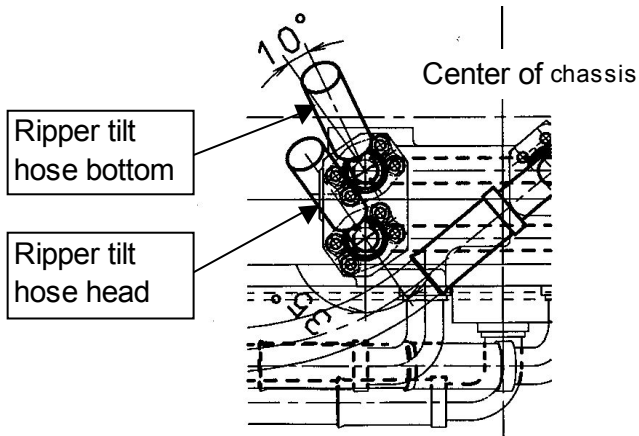


Ripper lift piping (Seen from rear)



Ripper piping seen from above

- (4) Connect each tilt cylinder hose (9) to the block at the rear of the chassis and set the angle between its adapter and chassis to "e" (35 degrees).

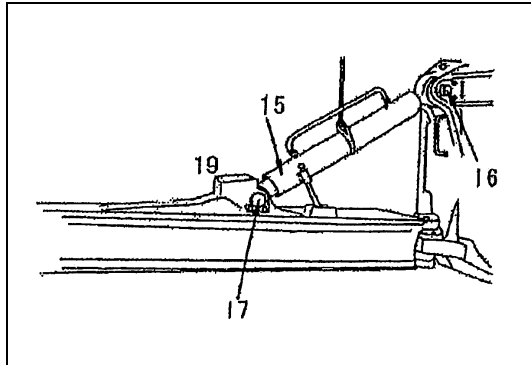


Ripper tilt piping (Seen from above)

| | |
|----------------------|---|
| Assembly process No. | Assembly of blade (For Semi-U-dozer • U-dozer) (5/6) |
| A-6 | |

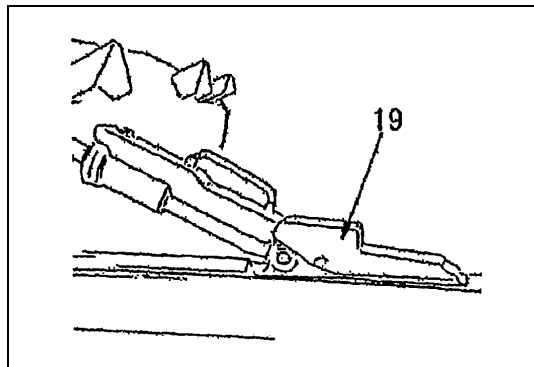
9. Sling tilt brace (15) temporarily and insert pins (16) and (17) and secure them with the lock plates.
★ Standard brace length: 1,480 mm

Mounting bolt tightening torque
235 – 285 Nm {23.5 – 29.5 kgm}



10. Install step cover (19).

Mounting bolt tightening torque
235 – 285 Nm {23.5 – 29.5 kgm}



| Precautions | Necessary tools | | Necessary equipment | |
|---------------|---------------------------------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| | 50 mm wide, 3,000 mm long nylon sling | 1 | | |
| | Sledge hammer | 1 | | |
| | Torque wrench | – | | |
| | | | | |
| | | | | |
| Other remarks | | | | |

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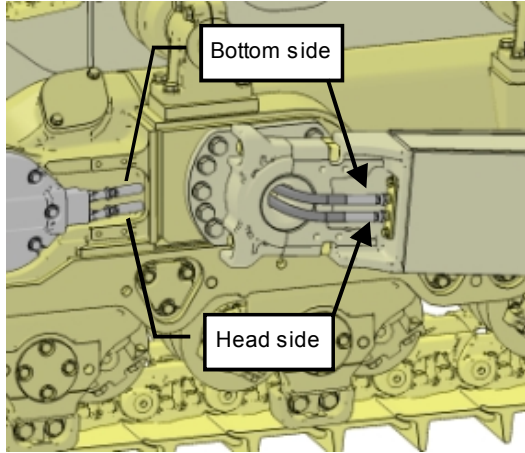


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| | |
|----------------------|------------------------------------|
| Assembly process No. | Installation of blade (3/5) |
| A-8 | |

5. Connect the 2 tilt hoses to each trunnion.
- ★ Connect the bottom-side hose (with red band) to the upper nipple.
- [Work on dual tilt specification machine]
- Connect the bottom hose of the left trunnion marked blue to the upper nipple.



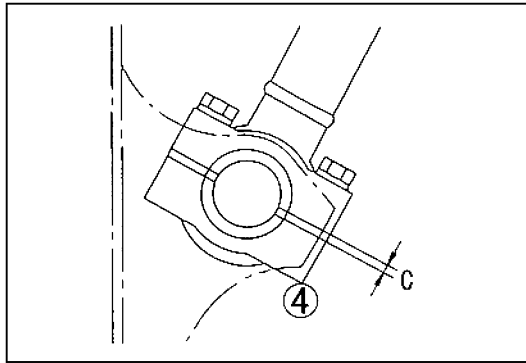
6. Sling the blade lift cylinder temporarily and start the engine. Extending the piston rod slowly, connect it to the blade assembly by cap (4) at its end.

When fixing the cap, tighten the mounting bolts of cap (4) temporarily (eliminate the clearance in the axial direction of the ball joint) without inserting any shim and measure dimension "c".

Insert shims having the thickness of dimension "c" + 0.2 to 0.5 mm. (Secure clearance of 0.2 to 0.5 mm in the axial direction of the ball joint.)

Tighten the bolts to the specified torque and check that the ball joint moves smoothly.

Tightening torque for cap mounting bolt:
455 – 565 Nm {46.5 – 58 kgm}



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

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|----------------------|--|
| Assembly process No. | Installation of operator's cab (8/12) |
| A-9 | |

- (9) Install plates (21) with bolts (25) and washers (26). (2 pieces on each side)
- (10) Install right and left foot rests (24) and (25) with bolts (26) and washers (27). (2 pieces on each side)
- (11) Install pedal caps (28) to the foot rests.

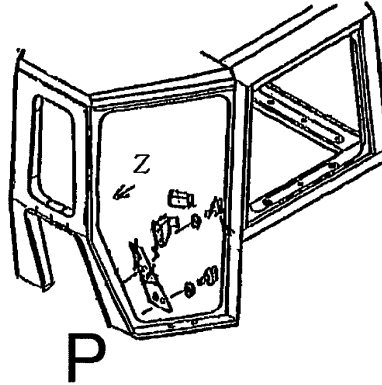
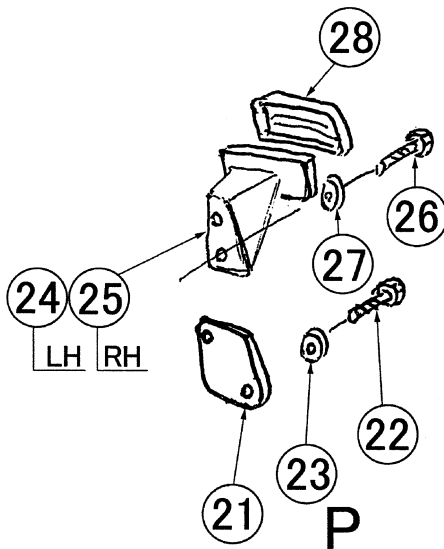


Fig. 9



| | | |
|-----|--------------|------|
| 28 | 203-43-56450 | 2 |
| 27 | 01643-71232 | 4 |
| 26 | 01010-D1230 | 4 |
| 25 | 14X-911-5721 | 1 |
| 24 | 14X-911-5711 | 1 |
| 23 | 01643-71232 | 4 |
| 22 | 01010-D1230 | 4 |
| 21 | 198-Z11-2961 | 2 |
| No. | Part No. | Q'ty |

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

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|----------------------|--|
| Assembly process No. | Check of oil and coolant levels (2/2) |
| A-12 | |

| | | Engine oil pan | Power train oil pan (incl. transmission, torque converter and bevel gear cases) | Damper case | Final drive case (each) | Hydraulic system | Fuel tank | Cooling system |
|------------------|--------|----------------|---|-------------|-------------------------|------------------|-----------|----------------|
| Specified amount | Liter | 55 | 150 | 1.5 | 40 | 270 | 840 | 110 |
| | US gal | 14.53 | 39.63 | 0.40 | 10.57 | 71.33 | 221.93 | 29.06 |
| Refill capacity | Liter | 50 | 90 | 1.5 | 40 | 130 | – | – |
| | US gal | 13.21 | 23.78 | 0.40 | 10.57 | 34.35 | – | – |

For coolant ratio to water, investigate past minimum temperature and decide it according to the following Mixing Proportion Table. In this case, regard temperatures about 10°C lower than the actual temperatures as the minimum temperature in the table.

Mixing Proportion Table of Water and Coolant

| Minimum temperatures (°C) | -10 | -15 | -20 | -25 | -30 | -35 | -40 |
|---------------------------|--------------------|-------|-------|-------|-------|-------|-------|
| | Mixing amounts (ℓ) | | | | | | |
| Coolant | 63.0 | 75.5 | 86.0 | 96.5 | 105.0 | 113.5 | 122.0 |
| Water | 147.0 | 134.5 | 124.0 | 113.5 | 105.0 | 96.5 | 88.0 |

 **Warning**

The coolant is inflammable. So, keep it away from fire.

Use tap water as the cooling water.

We recommend you to control mixing ration with an antifreeze concentration mater.

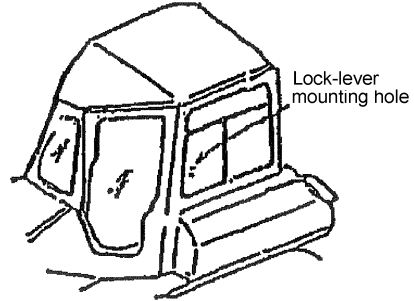
 **Warning**

When removing the drain plug, use care not to be drenched by coolant mixing water.

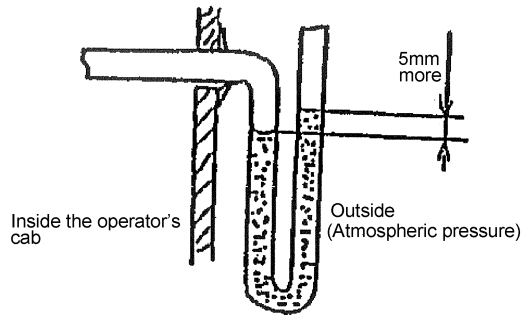
| Precautions | Necessary tools | | Necessary equipment | |
|--|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| If any oil level or coolant level is low,add oil or coolant. | | | | |
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| Other remarks | | | | |

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|----------------------|---|
| Assembly process No. | Check and adjustment of operator's cab (1/6) |
| M-1 | |

1. Inspecting the coating
 - (1) Check and make sure the bolt heads loosened and re-tightened for the disassembly, and reassembly work are properly coated without peeling off.
 - (2) Check and make sure the coating being provided over the sealed section between the floor frame and the tank and the coating over the borders between the covers and the chassis structures are not dislocated.
- ★ When coating at any place is found peeling off or not too neat, apply touch-up painting to remedy the coating failures.



2. Pressurizing tests
 - (1) Measure the internal pressure of the operator's cab.
 - ★ Determination criteria: Measurement value ≥ 5 mmAg
 - Test conditions : Run the engine at full speed.
 - Blower : HI
 - ★ Inside/Outside air changeover lever : Outside-air position



- ★ When the above criterion is not being satisfied, check if the blind plug is inserted to the prescribed position of the control box or if any place else is not airtight.
- (2) Outlined below is a simplified method for the internal pressure measurement of the operator's cab:
 - a) Prepare a transparent vinyl hose (of an outer diameter of 10 mm and 3,000 mm long).
 - b) Pour water into the hose bore for about a half of the hose length.
 - c) Remove the sliding windshield lock lever located on the side panel of the operator's cab to insert one end of the vinyl hose before fastening an adjacent part of the hose to the top end of the back seat using packing tape.
 - d) Seal the gap occurring between the lock-lever hose and the outer periphery of the hose.
 - e) Match the water levels of the beginning part and the ending part of the water column inside the transparent vinyl hose at the outside of the operator's cab.
 - f) Start the engine and run it at full speed to read the difference between the two water levels.

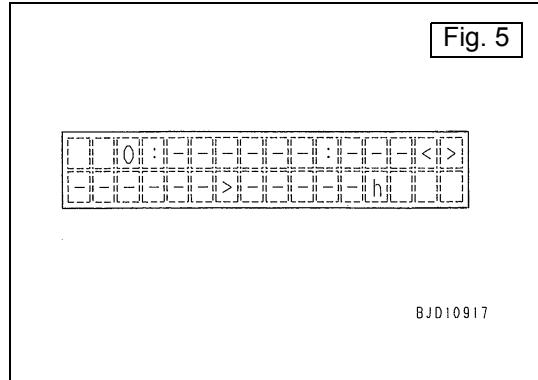
| Precautions | Necessary tools | | Necessary equipment | |
|---------------|-----------------|------|---------------------|------|
| | Name | Q'ty | Name | Q'ty |
| | | | | |
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| Other remarks | | | | |

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|----------------------|---|
| Assembly process No. | Inspection of machine monitor (5/12) |
| M-2 | |

2.3) Contents of display on lower display unit

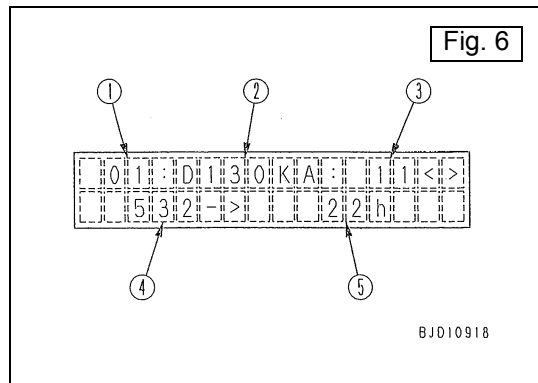
The "failure codes" of both "EE (Electrical system failure code display mode)" and "bE (Electrical system failure code display mode)" are displayed in the same format on lower display unit (3) as shown below.

- 1) When the assembly work is completed, no past trouble is recorded and no trouble is detected currently, thus the display is as shown in Fig. 5 in both modes.



- 2) After the machine is started, if a trouble occurs or a past trouble is recorded, the display is as shown in Fig. 6 in both modes.

- (1): Record No. (up to 20 Nos.)
- (2): Failure code (Code of trouble occurring at present blinks)
- (3): Number of occurrence up to now
- (4): Elapsed time by service meter after first occurrence
- (5): Elapsed time by service meter after last occurrence



2.4) Failure code

As described above, the "failure codes" are classified and displayed into the "electrical system failure codes" and "mechanical system failure codes". For the details of each code, see "Testing and adjusting volume" or "Troubleshooting volume of the shop manual".

The major "failure codes" are listed on the following pages.

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