PART NO. W4FK-E-00

HITACHI

Workshop Manual

ZW

100-G
120-G

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO4FK-E
Technical Manual (Troubleshooting)	: Vol. No.TT4FK-E
Workshop Manual	: Vol. No.W4FK-E

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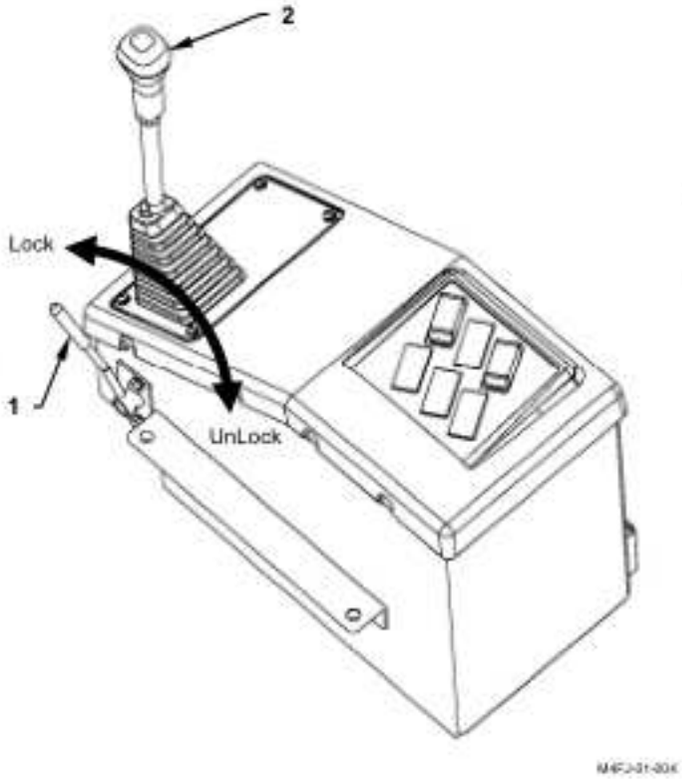
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HYDRAULIC CIRCUIT PRESSURE RELEASE PROCEDURE

Release the remaining pressure in hydraulic circuit as follows when front attachment etc. have been removed / installed.

1. Set front control lever lock (1) to the UN LOCK position.
2. Run the engine at low idle speed for 5 minutes to cool the engine.
3. Turn key switch OFF.
4. Move front control lever (2) to 4 or 5 turn of pressure release circuit.
5. Set front control lever lock (1) to the LOCK position.



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REMOVAL AND INSTALLATION OF CANOPY

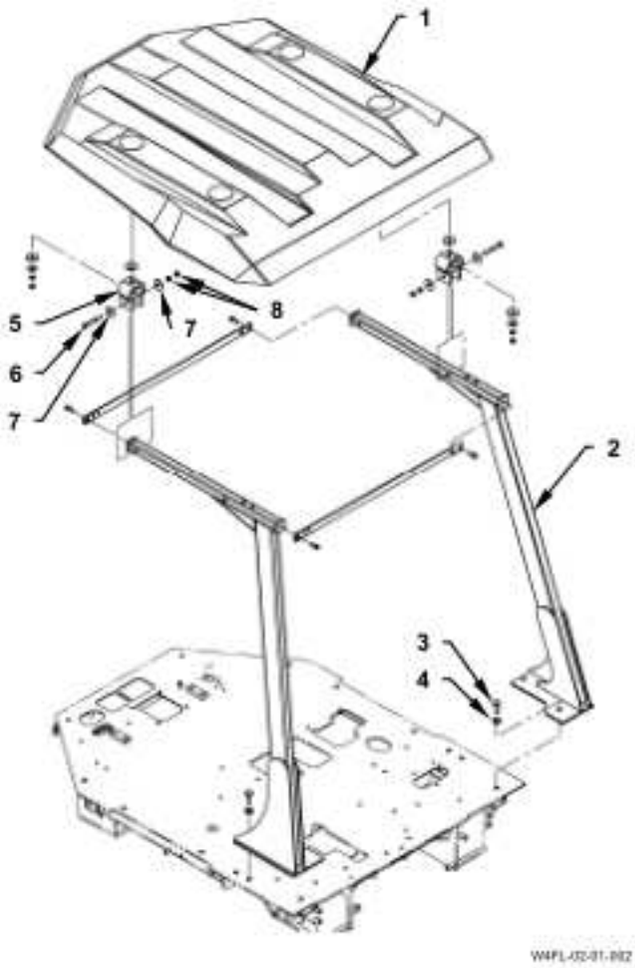
Removal

1. Remove bolts (6) (4 used), nuts (8) (8 used), washers (7) (8 used), and rubbers (5) (4 used) from prop assembly (2). Remove roof (1) from prop assembly (2).
   : 19 mm

CAUTION: Prop assembly (2): 56 kg (123 lb)

2. Attach a nylon sling onto prop assembly (2). Hoist and hold prop assembly (2).

3. Remove bolts (3) (4 used) and washers (4) (4 used) from prop assembly (2). Remove prop assembly (2) from the cockpit.
   : 24 mm



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Installation

CAUTION: Prop assembly (2): 56 kg (123 lb)

1. Attach a nylon sling onto prop assembly (2). Hoist and hold prop assembly (2). Fit prop assembly (2) to the mounting hole of the cockpit.

2. Install prop assembly (2) to the cockpit with washers (4) (8 used) and bolts (3) (4 used).
   : 24 mm
   : 210 N·m (21 kgf·m, 152 lbf·ft)

3. Install roof (1) to prop assembly (2) with rubbers (5) (4 used), washers (7) (8 used), nuts (8) (8 used), and bolts (6) (4 used).
   : 19 mm
   : 35 N·m (3.5 kgf·m, 25.5 lbf·ft)

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Disassembly of Axle

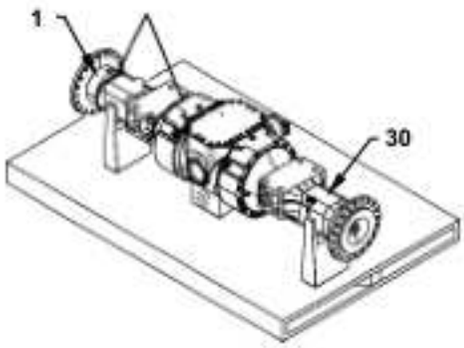
- The procedure to disassemble the front axle is explained here as an example. Though the rear axle differs from axle tubes (1, 30) in shape, the procedure to disassemble is the same as that of the front axle unless otherwise specified.

CAUTION: Axle assembly weight:
ZW100-G Front: 340 kg (750 lb)
Rear : 335 kg (740 lb)
ZW120-G Front: 395 kg (870 lb)
Rear : 390 kg (860 lb)

1. Remove drain plug (9) from differential body (5). Drain gear oil from differential body (5).
   : 14 mm
   - Gear oil amount
     ZW100-G: 10 L (2.6 US gal)
     ZW120-G: 14 L (3.7 US gal)

CAUTION: Axle tube (1) assembly weight:
ZW100-G: 100 kg (220 lb)
ZW120-G: 120 kg (265 lb)

2. Attach a nylon sling onto axle tube (1). Hoist and hold axle tube (1).



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3. Remove bolts (2) (14 used) and washers (3) (14 used) from axle tube (1).
   : 24 mm
4. Remove the axle tube (1) assembly from differential body (5).
5. Remove shaft (23) from differential body (5).

CAUTION: Axle tube (30) assembly weight:
ZW100-G: 100 kg (220 lb)
ZW120-G: 120 kg (265 lb)

6. Remove axle tube (30) and shaft (23) in the same way as steps 2 to 5.

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