PART NO. WNHK40-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZW550-6

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TONHK40-EN
Technical Manual (Troubleshooting)	: Vol. No.TTNHK40-EN
Workshop Manual	: Vol. No.WNHK40-EN

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SECTION 1

GENERAL

CONTENTS

Group 1 Precautions for Disassembling and Assembling

Precautions for Disassembling and Assembling W1-1-1-1

Group 2 Tightening

Tightening Bolts and Nuts W1-2-1-1
Piping Joint W1-2-1-4

Group 3 Painting

Painting W1-3-1-1

Group 4 Bleeding Air

Bleeding Air from Hydraulic Oil Tank W1-4-1-1
Bleeding Air from Hydraulic System W1-4-1-2
Bleed Air from Fuel System W1-4-1-3
Bleeding Air from Radiator/CCV Line W1-4-1-5
Bleeding Air from Brake (Axle) W1-4-1-8
Bleeding Air from Parking Brake W1-4-1-9

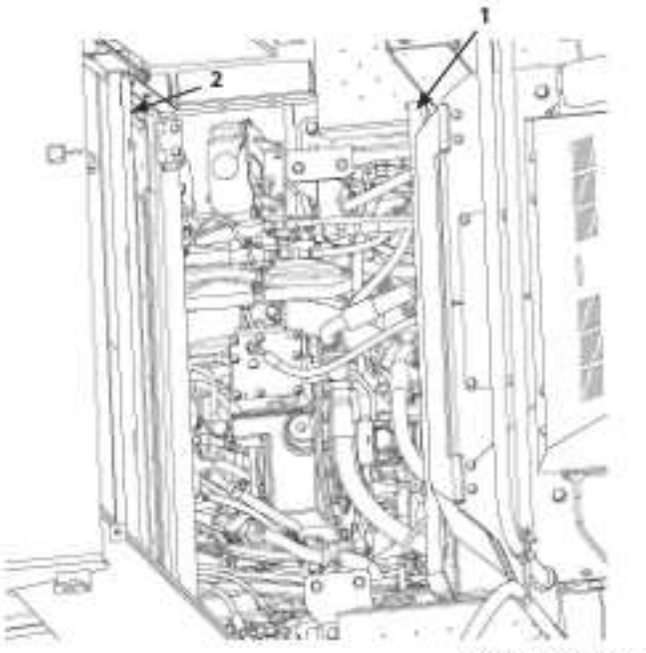
Group 5 Pressure Release Procedure

Front Attachment Hydraulic Circuit Pressure Release Procedure W1-5-1-1
Ride Control Accumulator (Option) Pressure Release Procedure W1-5-1-2
Parking Brake Accumulator Pressure Release Procedure W1-5-1-3

Group 6 Preparation

Preparation before Inspection and Maintenance W1-6-1-1

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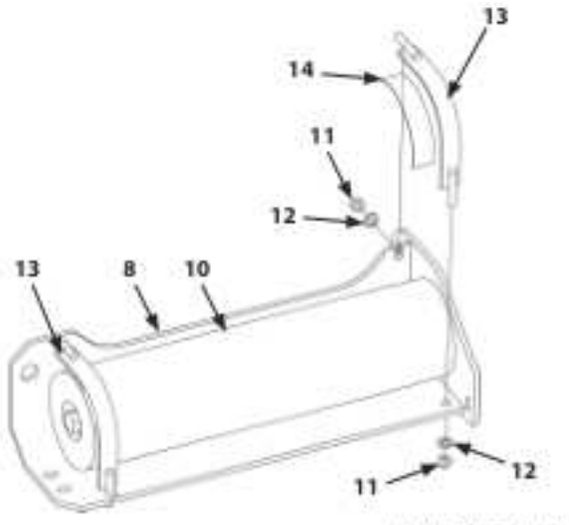
11. Start the engine and bleed air from the hydraulic system. (Refer to W1-4-1.)

IMPORTANT: Check for any oil leaks.

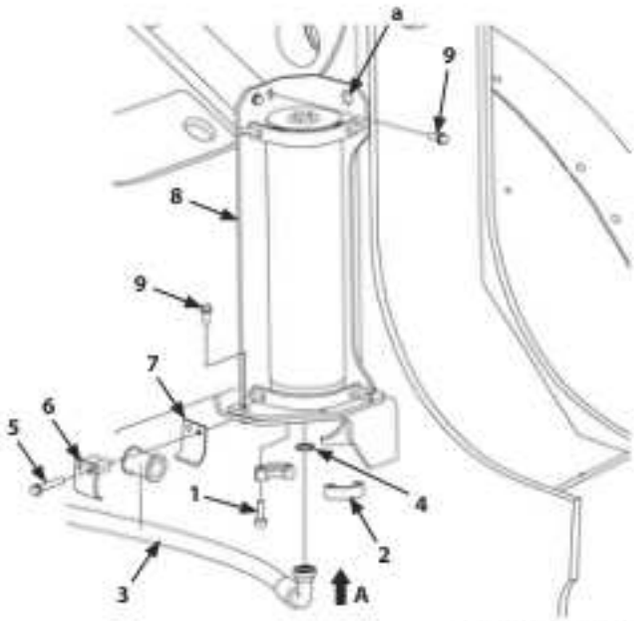
NOTE: Move the bucket, lift arm, and steering cylinders several times to bleed air mixed in the hydraulic circuit. Do not operate the cylinders to the end of cylinder stroke or do not apply a heavy load to the cylinders.

12. Level and lower the bucket onto the ground and stop the engine.
13. Check the oil level using the level gauge. Add oil as needed.
14. Close top covers (1, 2). (Refer to W3-4-2.)

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115WNEC-03-17-02



115Z78W-03-17-02

a - Hole for Sling

Installation

CAUTION: Accumulator (10) weight: 50 kg (110 lb)

1. Attach nylon slings to accumulator (10).

2. Install accumulator (10), rubber sheet (14) (2 used), and bands (13) (2 used) to the bracket of accumulator assembly (8).
   Fix with washers (12) (4 used) and self-locking nuts (11) (4 used).

   : 19 mm

   : 31.9 N-m (23.5 lbf-ft)

CAUTION: Accumulator assembly (8) weight: 70 kg (154 lb)

3. Attach nylon slings to holes (a) of accumulator assembly (8) and lift it onto the front chassis.
   Fix accumulator assembly (8) with bolts, washers (9) (4 used).

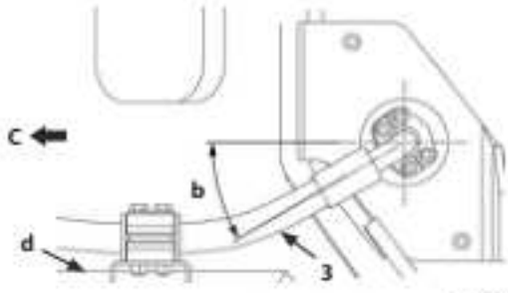
   : 19 mm

   : 90 N-m (66 lbf-ft)

4. Install O-ring (4), hose (3), flanges (2) (2 used), and bolts (1) (4 used) to accumulator (10).

   : 10 mm

   : 90 N-m (66 lbf-ft)



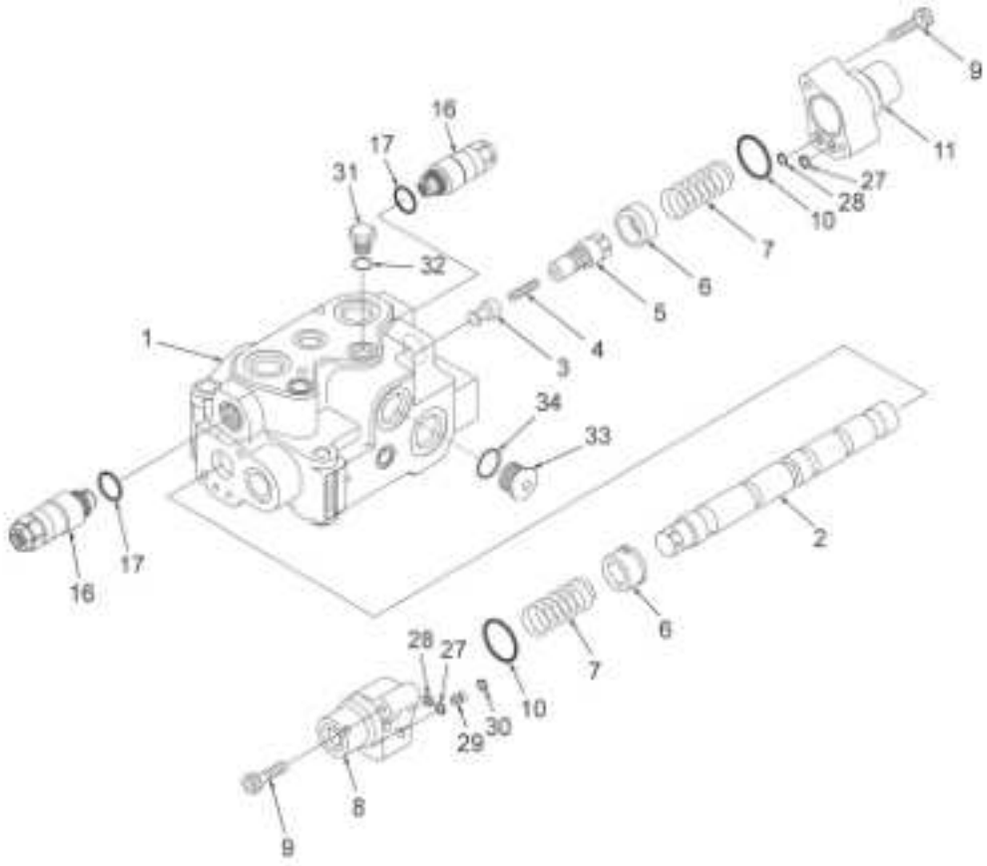
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Arrow View A

b - 30°
c - Machine Front
d - Front Chassis

NOTE: Check the installation angle of hose (3).

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90WNEC-04-07-07

Disassembly of Steering Valve

IMPORTANT: Do not disassemble the overload relief valve. If it has been disassembled, pressure should be adjusted. (Refer to TROUBLESHOOTING/ Operational Performance Test in the separated volume, Shop Manual.)

1. Remove overload relief valves (16) (2 used) with O-rings (17) (2 used) from valve housing (1).

   : 32 mm

2. Remove plugs (31, 33) and O-rings (32, 34) from valve housing (1).

   : 36 mm

   : 22 mm

IMPORTANT: Spring (7) may fly out due to the spring force when removing cap (11).

3. Remove socket bolts (9) (2 used) from cap (11).

   : 8 mm

4. Remove spring (7) and spring seat (6) from valve housing (1).

5. Remove O-rings (10, 27, and 28) from cap (11).

IMPORTANT: Spring (7) may fly out due to the spring force when removing cap (8).

6. Remove socket bolts (9) (2 used) from cap (8).

   : 8 mm

7. Remove spring (7) and spring seat (6) from valve housing (1).

8. Remove O-rings (10, 27, and 28), sleeve (29) and O-ring (30) from cap (8).

IMPORTANT: Put the matching marks on valve housing (1) and spool (2) before disassembling.

9. Remove the spool (2) assembly from valve housing (1).

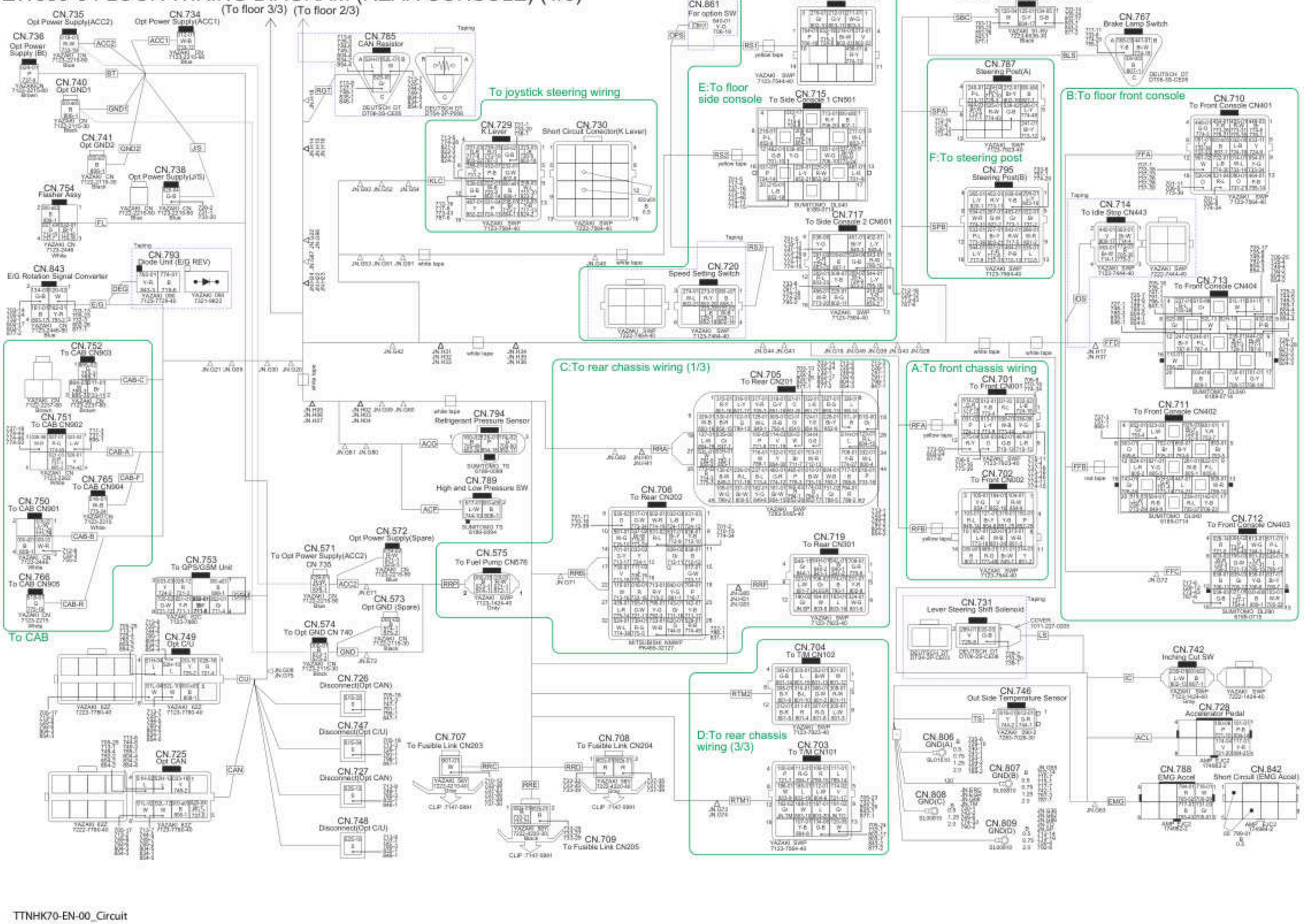
10. Secure the spool (2) assembly in a vise by using wooden pieces.

11. Remove cap screws (5) (2 used), springs (4) (2 used), and poppets (3) (2 used) from the main spool (2) assembly.

    : 17 mm

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ZW550-6 FLOOR WIRING DIAGRAM (REAR CONSOLE) (1/3)



TTNHK70-EN-00_Circuit

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