PART NO.

HITACHI

Workshop Manual

ZX
ZX210W
Hydraulic Excavator

Service Manual consists of the following separate Part No.
Technical Manual (Operational Principle)
Technical Manual (Troubleshooting)
Workshop Manual

MidWestTech | Hitachi ZX210W Excavator Workshop Service Manual | Publication ZX210... Order the manual at mid-west-tech.com >

SECTION 1
GENERAL



— CONTENTS —

Group 1 Precautions for Disassembling and Assembling

Precautions for Disassembling and Assembling W1-1-1

Maintenance Standard Terminology W1-1-7

Group 2 Tightening Torque

Tightening Torque Specification W1-2-1

Torque Chart W1-2-2

Piping Joint W1-2-5

Periodic Replacement of Parts W1-2-9

Group 3 Painting

Painting W1-3-1

Group 4 Bleeding Air from Hydraulic Oil Tank

Bleeding Air from Hydraulic Oil tank W1-4-1

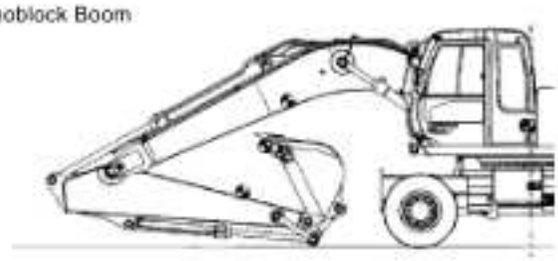
MidWestTech | Hitachi ZX210W Excavator Workshop Service Manual | Publication ZX... Order the manual at mid-west-tech.com >

CAUTION: Front attachment assembly weight:
Monoblock boom: 3330 kg (7350 lb)
2-Piece boom: 4270 kg (9420 lb)

6. Install front attachment assembly. Then, fill with hydraulic oil.
   (Refer to "Remove and Install Front Attachment" group on page W4-1-2.)
   : 27 mm
   : 78 N·m (8.0 kgf·m, 58 lbf·ft)
   : 30 mm
   : 540 N·m (55 kgf·m, 400 lbf·ft)
   : 36 mm
   : 175 N·m (18 kgf·m, 129 lbf·ft)

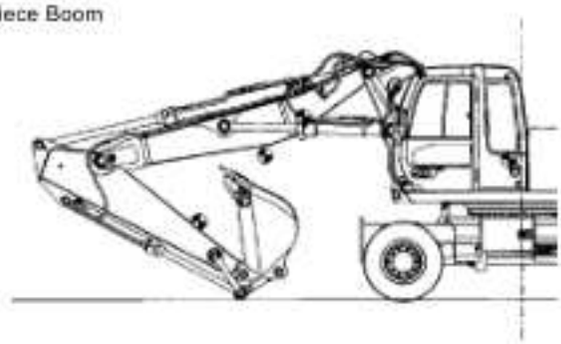
7. Start the engine and set the front attachment in posture for checking hydraulic oil level in its tank. Inspect the hydraulic oil level and check if there is any oil leakage.

Monoblock Boom



W1GL-04-01-802

2-Piece Boom



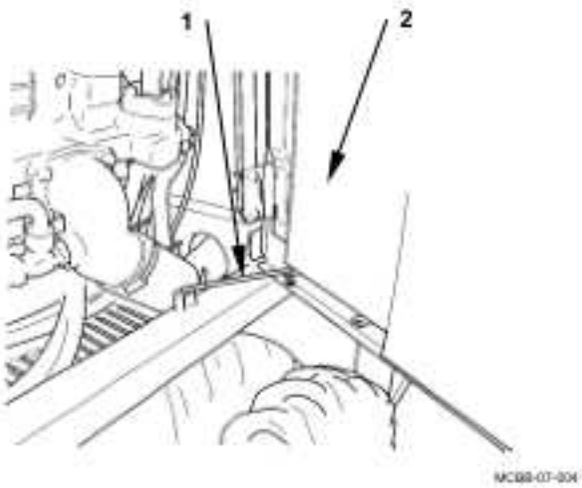
W1GL-04-01-801

MidWestTech | Hitachi ZX210W Excavator Workshop Service Manual | Publication ZX... Order the manual at mid-west-tech.com >

REMOVE AND INSTALL 2-UNIT SOLENOID VALVE (FOR PUMP CONTROL)

NOTE: As for disassemble and assemble solenoid valve, refer to "Disassemble and Assemble Proportional Solenoid Valve" on page W2-11-2.

CAUTION: Be sure to bleed air from hydraulic oil tank before starting the work. (Refer to "Bleeding Air from Hydraulic Oil Tank" on page W1-4-1.)

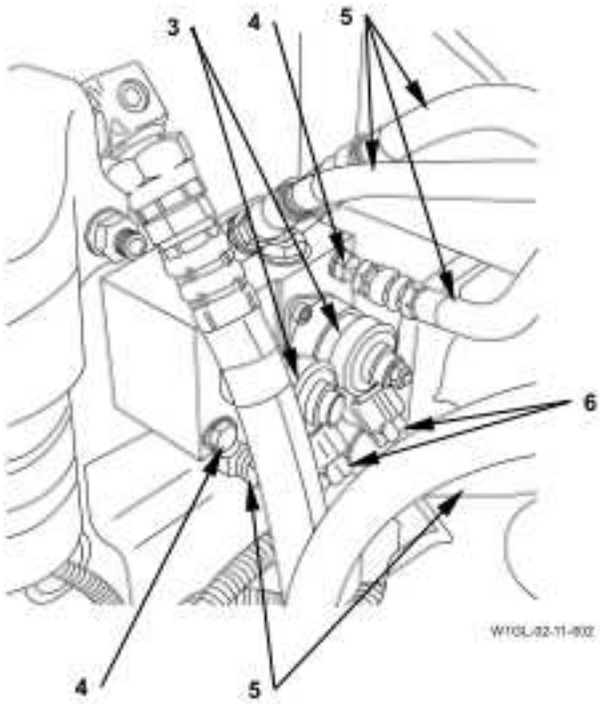


Removal

1. Open cover (2) of the machine right side and secure it with stopper (1).
2. Remove the bolts (4 used) and remove the cover of the pump device upper side.
   : 17 mm
3. Disconnect connectors (6) from solenoid valves (3).

IMPORTANT: Attach identification tags to disconnected hoses for re-assembly.

4. Disconnect hoses (5) (5 used) from solenoid valve unit (7). Cap open ends.
   : 17 mm, 19 mm
5. Remove bolts (4) (2 used) and remove solenoid valve unit (7).
   : 13 mm



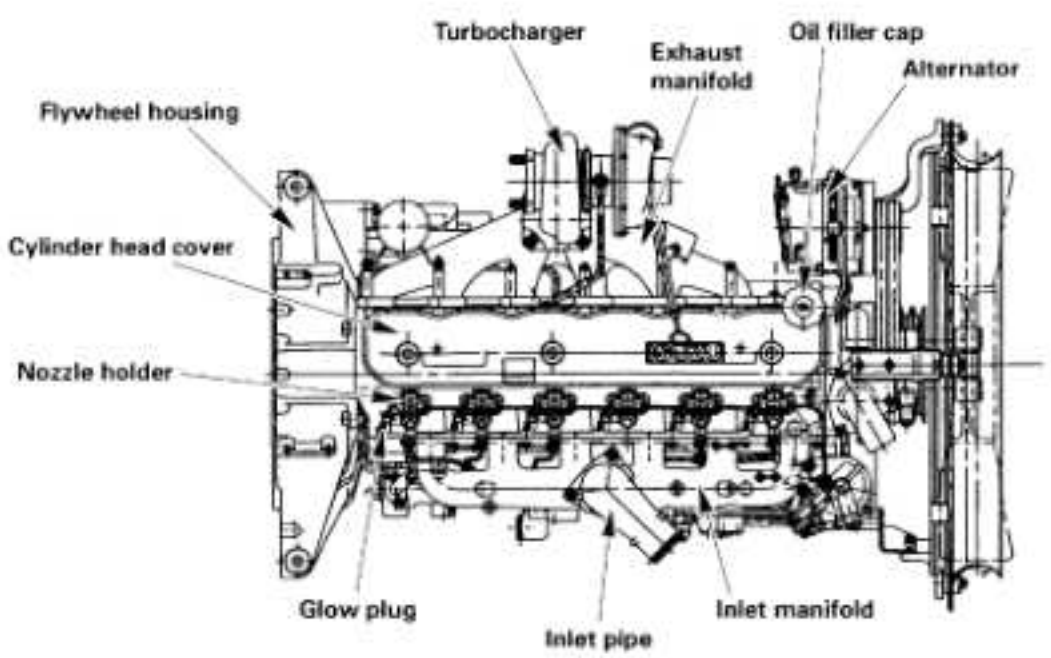
Installation

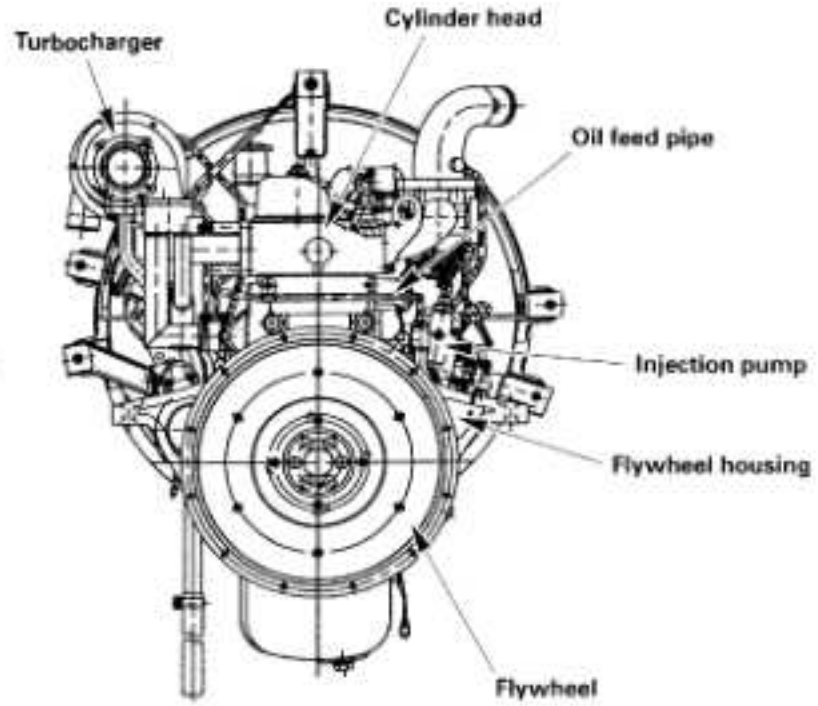
1. Install solenoid valve unit (7) with bolts (4) (2 used).
   : 13 mm
   : 20 N·m (2.0 kgf·m, 15 lbf·ft)
2. Connect hoses (5) (5 used) to solenoid valve unit (7). Connect connectors (6) (2 used) to solenoid valve (3).
   : 17 mm
   : 24.5 N·m (2.5 kgf·m, 18 lbf·ft)
   : 19 mm
   : 29.5 N·m (3.0 kgf·m, 21.5 lbf·ft)
3. Install the cover of the pump device upper side with the bolts (4 used).
   : 17 mm
   : 50 N·m (5.1 kgf·m, 37 lbf·ft)
4. Remove stopper (1) and close cover (2).

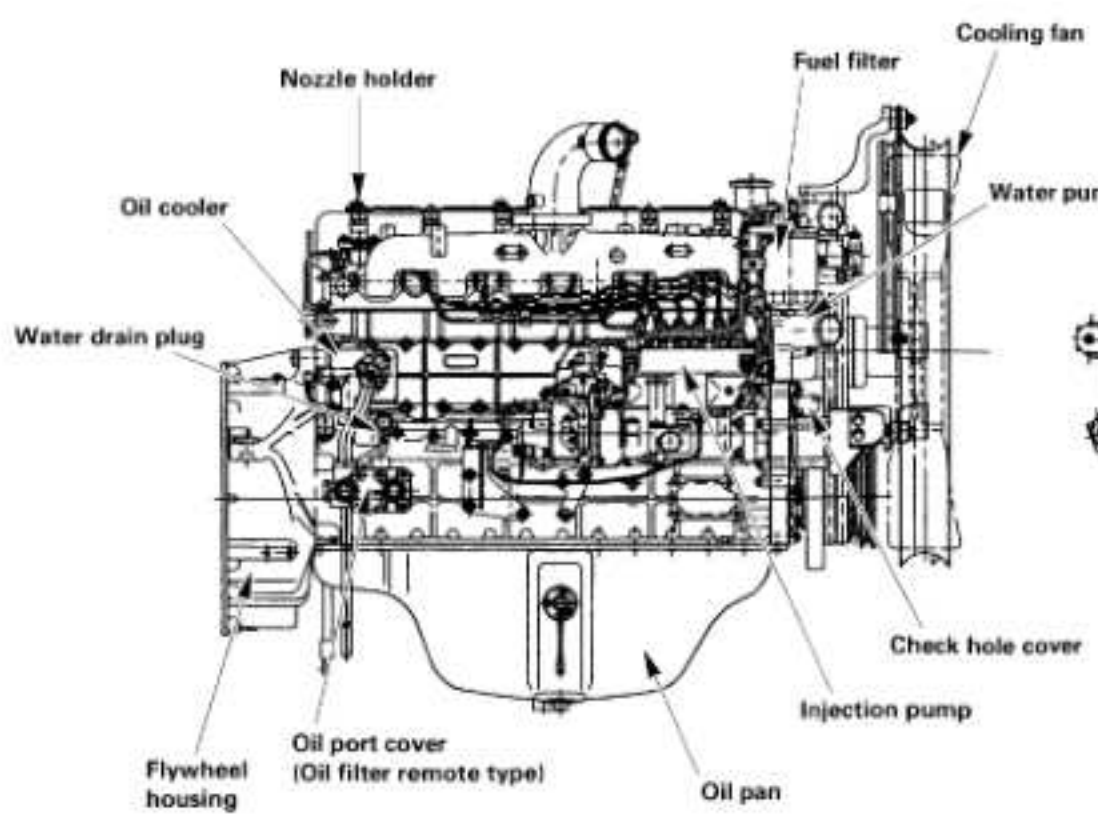
MidWestTech | Hitachi ZX210W Excavator Workshop Service Manual | Publication ZX... Order the manual at mid-west-tech.com >

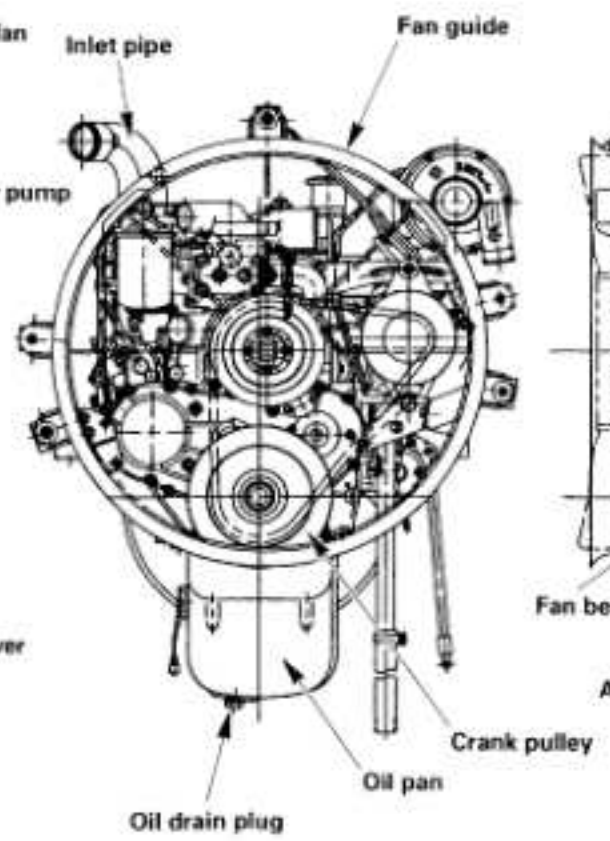
EXTERNAL VIEW

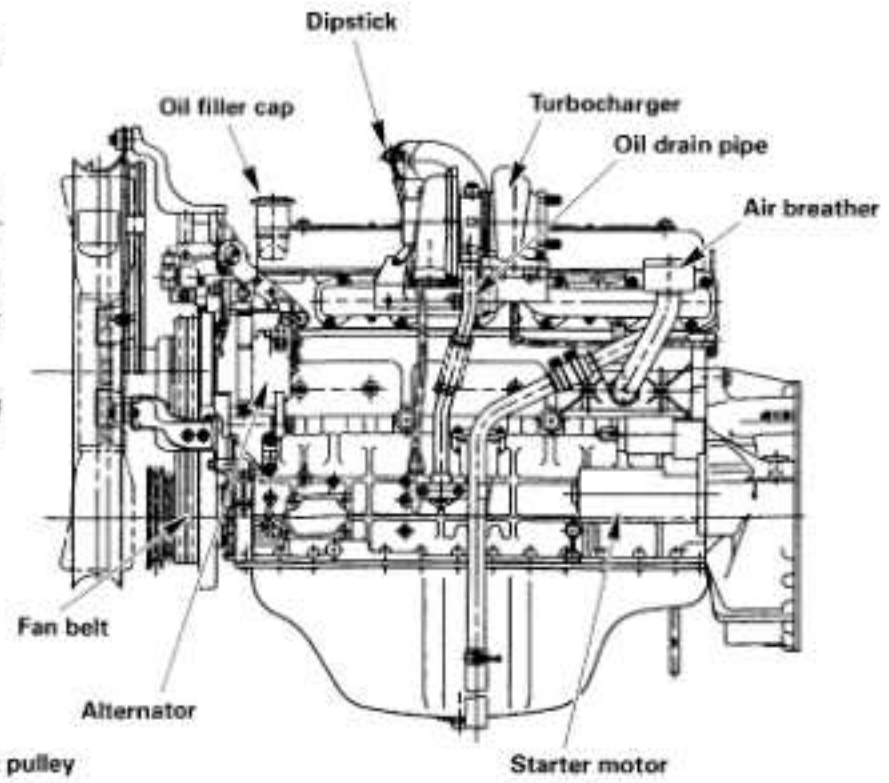
MODEL AA-6BG1TRA











MidWestTech | Hitachi ZX210W Excavator Workshop Service Manual | Publication ZX210W-WM
Order the manual at mid-west-tech.com >