PART NO. WCEB-E-00

HITACHI

Workshop Manual

ZX
140W-3
Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOCEB-E
Technical Manual (Troubleshooting)	: Vol. No.TTCEB-E
Workshop Manual	: Vol. No.WCEB-E

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SECTION 1
GENERAL



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Group 3 Painting

Painting W1-3-1

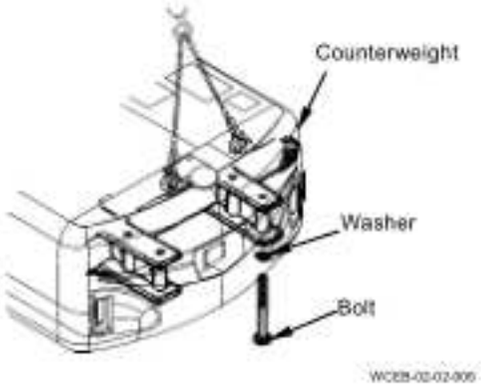
Group 4 Bleeding Air from Hydraulic Oil Tank

Bleeding Air from Hydraulic Oil tank W1-4-1

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CAUTION: Counterweight weight: 3000 kg (6620 lb)

6. Install the counterweight.
(Refer to RRMOVAL AND INSTALLATION OF COUNTERWEIGHT on W2-2-1.)
: 41 mm
: 1400 N·m (143 kgf·m, 1033 lbf·ft)



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CAUTION: The front attachment assembly weight:
Monoblock boom: 2000 kg (4410 lb)
2-piece boom: 2415 kg (5330 lb)

7. Install the front attachment assembly to the upperstructure. Add hydraulic oil.
(Refer to REMOVAL AND INSTALLATION OF FRONT ATTACHMENT on W4-1-1.)
: 27 mm
: 93 N·m (9.5 kgf·m, 69 lbf·ft)
: 30 mm
: 540 N·m (55 kgf·m, 398 lbf·ft)
: 36 mm
: 175 N·m (18 kgf·m, 129 lbf·ft)

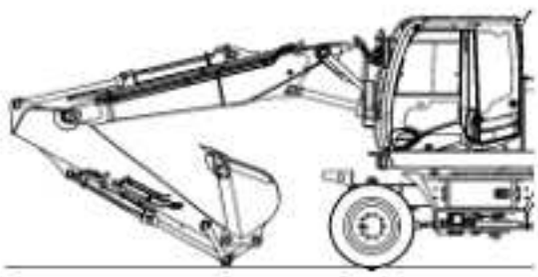
Monoblock Boom



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8. Start the engine. Set the front attachment in posture for checking hydraulic oil level. Check for hydraulic oil level and any oil leakage.

2-Piece Boom



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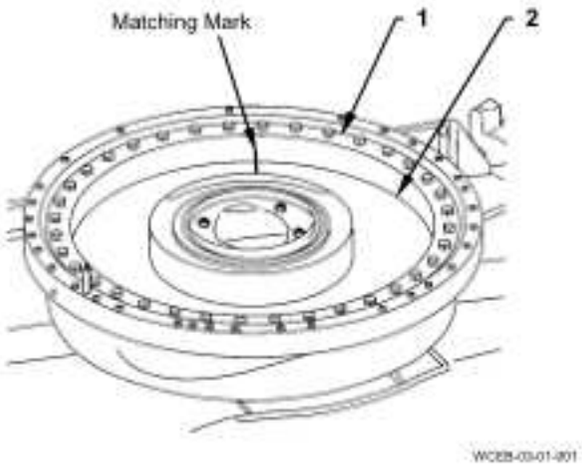
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REMOVAL AND INSTALLATION OF SWING BEARING

Before removing and installing the swing bearing, the upperstructure must be removed first. For removal and installation of the upperstructure, refer to the REMOVAL AND INSTALLATION OF MAIN FRAME on W2-3-1.
The procedure starts on the premise that the upperstructure has already been removed.

Removal

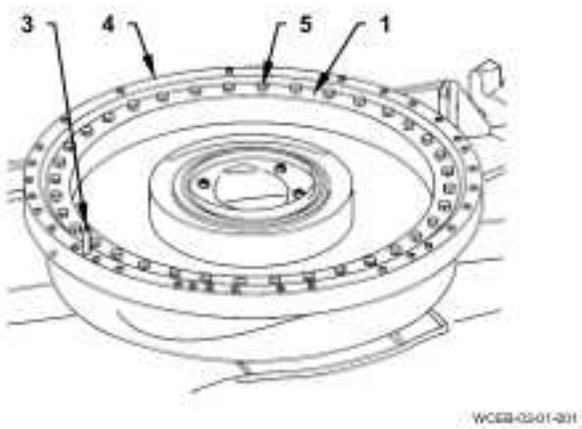
1. Put the matching marks on inner race (1) of the swing bearing and track frame (2).



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2. Remove knock pin (3) from outer race (4) of the swing bearing.

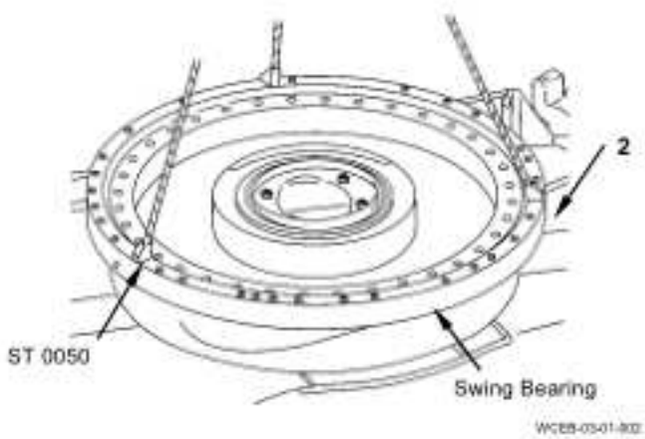
3. Remove bolts (5) (36 used) from inner race (1) of the swing bearing.
: 24 mm



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CAUTION: Swing bearing weight: 157 kg (350 lb)

4. Install special tools (ST 0050) (3 used) to the swing bearing. Attach a wire rope onto special tool. Hoist and remove the swing bearing from track frame (2).



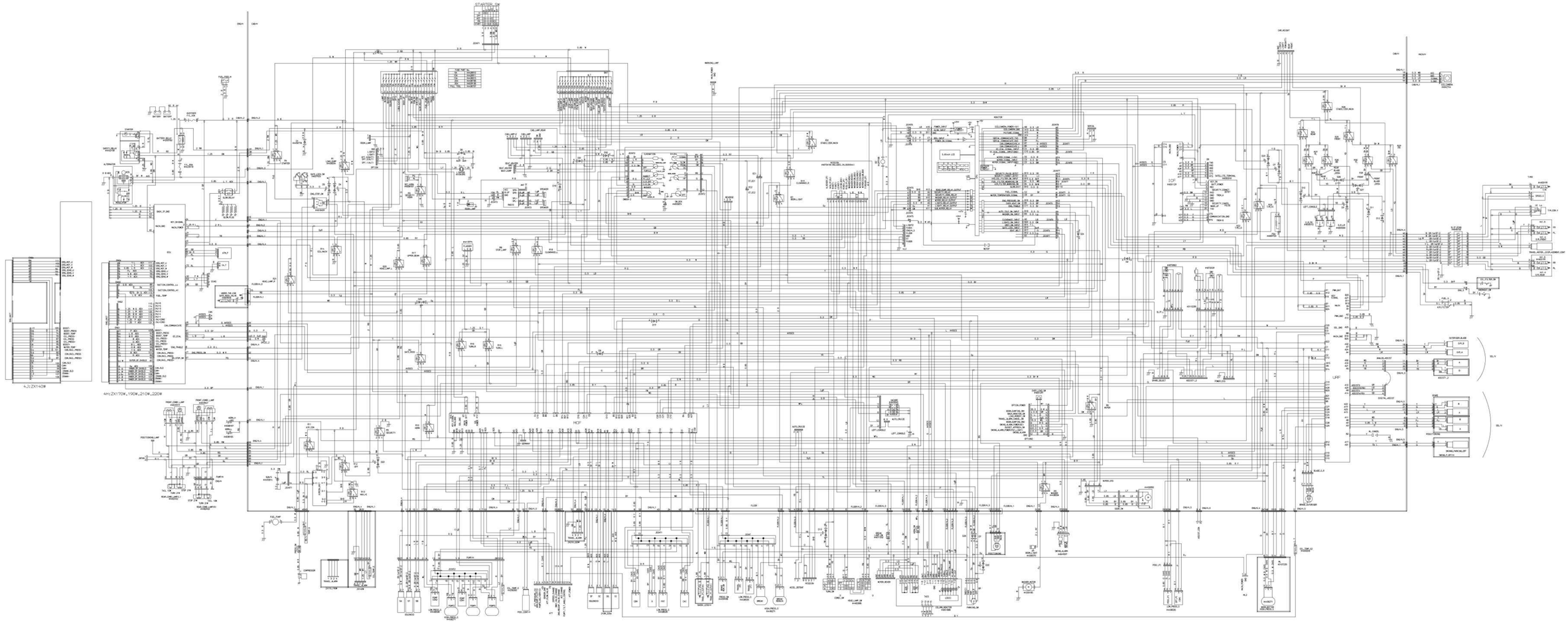
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Attach to Vol. No.: TTCEB-E-00, TTCGB-E-00, TTCJB-E-00

ZAXIS140W-3/170W-3/190W-3/210W-3/220W-3 ELECTRICAL CIRCUIT DIAGRAM (STANDARD)

⚠CAUTION: Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing,be sure to consult the Parts Catalog.



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