PART NO. WDDQ50-EN-01

HITACHI

Reliable solutions

Workshop Manual

ZX
350LC-6
350LCN-6
Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TODDQ50-EN
Technical Manual (Troubleshooting)	: Vol. No.TTDDQ50-EN
Workshop Manual	: Vol. No.WDDQ50-EN
Engine Manual	: Vol. No.ETDDN50-EN, EWDDN50-EN

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•Disassembly of Main Relief Valve (j)

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

23. Remove main relief valve (808) from housing (2).

: 32 mm

•Disassembly of Bucket Regeneration Cut Valve (e)

24. Remove plug (54) and O-ring (53) from housing (2).

: 32 mm

25. Remove spring (52), spool (143), poppet (142), and spool (51) from housing (2). Remove plug (102).

: 3 mm

26. Remove backup rings (50) (2 used) and O-ring (49) from spool (51).

•Disassembly of Check Valves (b, d)

27. Remove socket bolts (104) (2 used). Remove flange (35), O-ring (114), spring (29), and poppet (30) from housing (2).

: 8 mm

28. Remove socket bolts (104) (2 used). Remove flange (34), O-ring (114), spring (29), and poppet (30) from housing (2).

: 8 mm

•Disassembly of Load Check Valve (c)

29. Remove plug (100), O-ring (141), spring (31), and poppet (33) from housing (2).

: 8 mm

30. Remove plug (100) and O-ring (141) of the check valve (d) side from housing (2).

: 8 mm

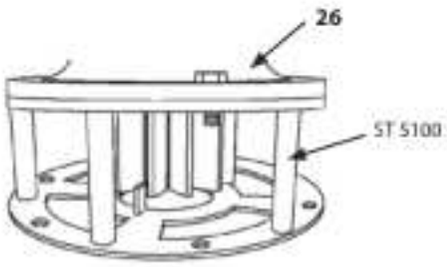
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CAUTION: The housing (26) assembly weight: 195 kg

IMPORTANT: Check that the flange surface of housing (26) does not come in contact with special tool (ST 5100).

15. Hoist and place the housing (26) assembly onto special tool (ST 5100). Install the housing (26) assembly to special tool (ST 5100) with bolts (M22, Pitch 2.5 mm) (2 used). Secure special tool (ST 5100) to a workbench in order to receive the reaction force.

    : 32 mm

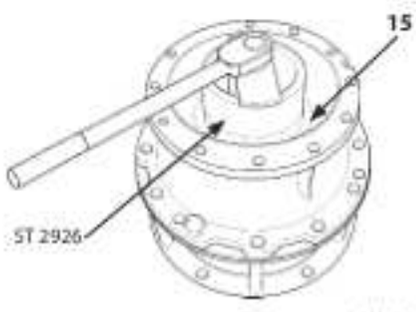


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IMPORTANT: Check the direction to install bearing nut (15).

16. Apply grease to the thread part of bearing nut (15). Place it onto shaft (31). At this time, face the stepped end side of bearing nut (15) to the roller bearing (14) side.
17. Tighten bearing nut (15) by using special tool (ST 2926).

    : 750 N·m



W178-02-11-146

18. Remove bolts (M22, Pitch 2.5 mm) (2 used) which secure housing (26) and special tool (ST 5100).

    : 32 mm

19. Turn housing (26) both clockwise and counterclockwise by 5 turns. Tap housing (26) by using a plastic hammer several times.
20. Secure housing (26) to special tool (ST 5100) with bolts (M22, Pitch 2.5 mm) (2 used).

    : 32 mm

21. Tighten bearing nut (15) by using special tool (ST 2926).

    : 750 N·m

22. Repeat step 18 to step 21 two to three times and bearing nut (15) and bearings of roller bearings (14, 27) can fit.
23. Remove bolts (M22, Pitch 2.5 mm) (2 used) which secure housing (26) and special tool (ST 5100).

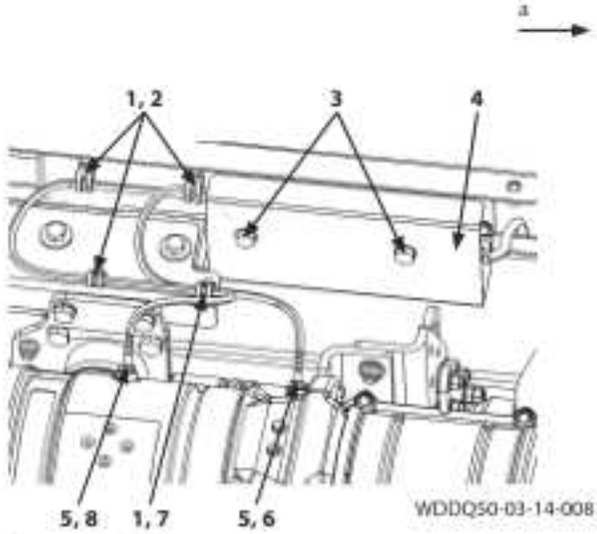
    : 32 mm

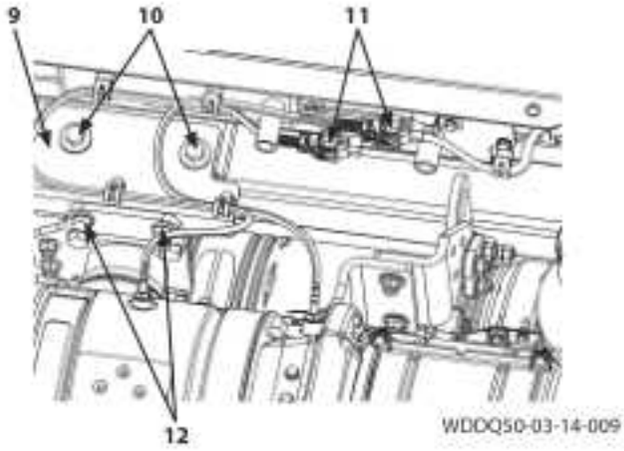
CAUTION: The housing (26) assembly weight: 195 kg

24. Hoist and place the housing (26) assembly onto a flat stand. When the housing (26) assembly is placed, check that the contacting position of oil seal (28) on the sleeve (29) outer circumference does not move up and down. In case the contacting position of oil seal (28) moves up and down, bearing nut (15) is tightened insufficiently. Repeat step 17 to step 23 again.
25. Secure housing (26) to special tool (ST 5100) with bolts (M22, Pitch 2.5 mm) (2 used).

    : 32 mm

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a: Counterweight Side

13. Remove bolts, washers (3) (2 used). Remove cover (4).

    : 17 mm

14. Disconnect connectors (11) (2 used).

IMPORTANT: Check the mark on wire harnesses (6, 8) and the clip (7) position for assembling.

15. Remove wire harnesses (6, 8) from clips (2) (3 used) and clip (7).
16. Remove sensors (5) (2 used).

    : 14 mm

17. Remove bolts, washers (1) (4 used). Remove clips (2) (3 used) and clip (7).

    : 10 mm

18. Remove bolts, washers (10, 12) (2 used for each). Remove cover (9).

    : 17 mm

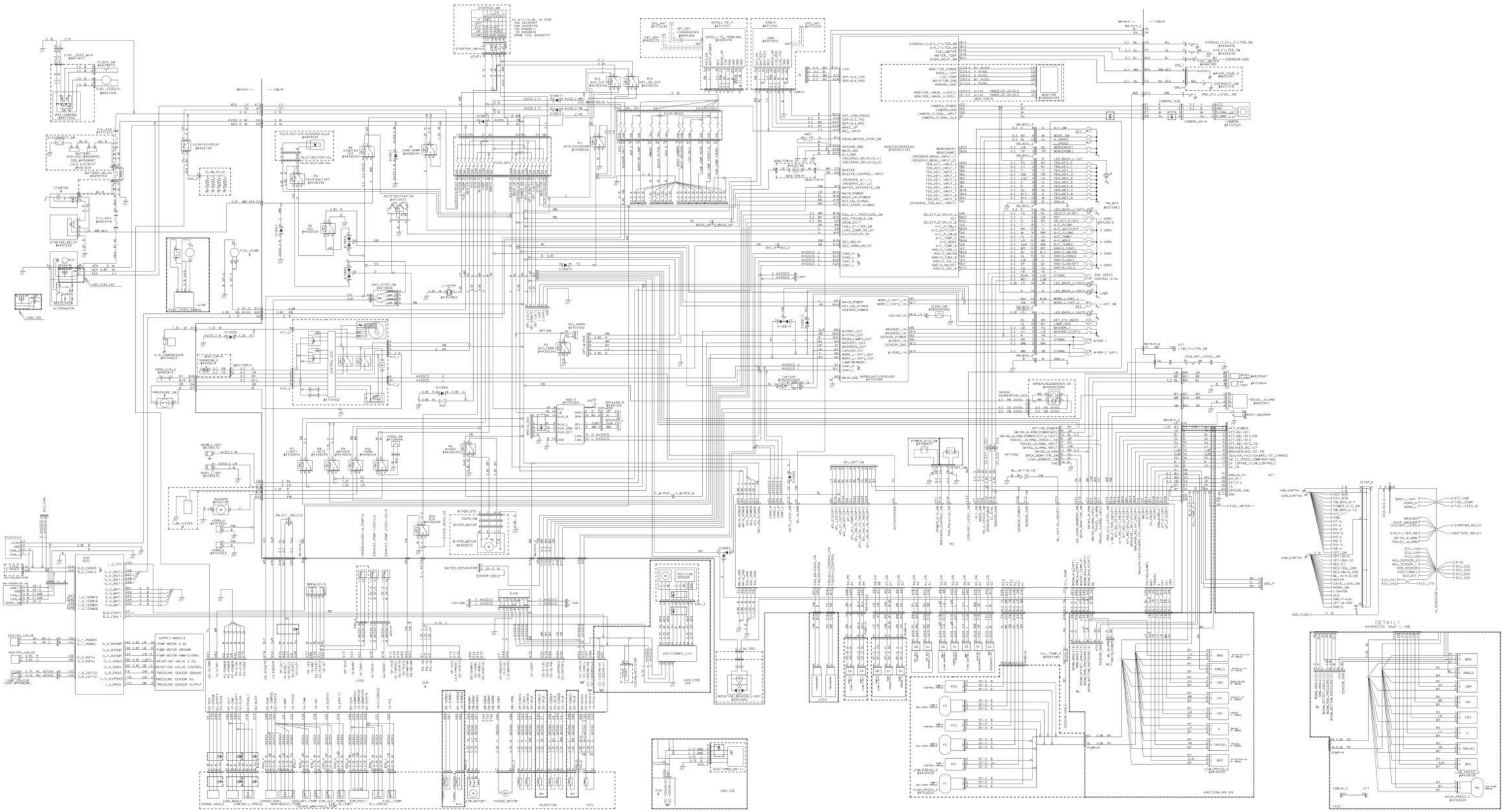
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ELECTRICAL CIRCUIT DIAGRAM

Applicable Machine

Attach to vol. No.	Model
TTDC150-EN-00	ZX250LC-6/ 250LCN-6
TTDDN50-EN-00	ZX300LC-6/ 300LCN-6
TTDDQ50-EN-00	ZX350LC-6/ 350LCN-6

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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