PART NO. WACC90-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX26U-5A

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual	: Vol. No.TACC90-EN
Workshop Manual	: Vol. No.WACC90-EN
Engine Manual	: Vol. No.EABA-EN

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Safety Alert Symbol and Headline Notations

In this manual, the following safety alert symbol and signal words are used to alert the reader to the potential for personal injury of machine damage.

⚠ This is the safety alert symbol. When you see this symbol, be alert to the potential for personal injury.
Never fail to follow the safety instructions prescribed along with the safety alert symbol.
The safety alert symbol is also used to draw attention to component/part weights.
To avoid injury and damage, be sure to use appropriate lifting techniques and equipment when lifting heavy parts.

⚠ **CAUTION:**
Indicates potentially hazardous situation which could, if not avoided, result in personal injury or death.

IMPORTANT:
Indicates a situation which, if not conformed to the instructions, could result in damage to the machine.

NOTE:
Indicates supplementary technical information or know-how.

Units Used

SI Units (International System of Units) are used in this manual. MKSA system units and English units are also indicated in parentheses just behind SI units.

Example: 24.5 MPa (250 kgf/cm², 3560 psi)

A table for conversion from SI units to other system units is shown below for reference purposes.

Quantity	To Convert From	Into	Multiply By
Length	mm	in	0.03937
	mm	ft	0.003281
Volume	L	US gal	0.2642
	L	US qt	1.057
	m^3	yd^3	1.308
Weight	kg	lb	2.205
Force	N	kgf	0.10197
	N	lbf	0.2248
Torque	N·m	kgf·m	0.10197
Pressure	MPa	kgf/cm^2	10.197
	MPa	psi	145.0
Power	kW	PS	1.360
	kW	HP	1.341
Temperature	°C	°F	°C×1.8+32
Velocity	km/h	mph	0.6214
	min^{-1}	rpm	1.0
Flow rate	L/min	US gpm	0.2642
	mL/rev	cc/rev	1.0

NOTE: The numerical value in this manual might be different from the above-mentioned table.

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Disassembly of 2-Spool Solenoid Valve

IMPORTANT: Arrange the disassembled parts together with each port in order not to confuse.

1. Remove lock nut (7) from the piston (1) assembly. Remove casing (4) from body (11).

   : 17 mm

2. Remove wave washer (6), plates (5, 3), O-rings (9) (2 used), and solenoid (8) from piston (1).

IMPORTANT: When removing piston (1), pin (2) may fall off. Do not lose pin (2).

3. Remove the piston (1) assembly from body (11). Remove pin (2) and O-ring (10) from the piston (1) assembly.
4. Remove spool (12) and spring (13) from body (11) by using a magnet.
5. Remove the other piston (1) assembly in the same way as step 1 to step 4.

IMPORTANT: If turning lock nut (18) and adjuster (16), the setting changes. When they have been turned, adjust the pressure. should be adjusted. (Refer to T4-5 in the separated volume, T/M.)

6. Loosen lock nut (18).

   : 17 mm

7. Remove the adjuster (16) assembly from body (11). Remove O-ring (17) from the adjuster (16) assembly.

   : 6 mm

8. Remove spring (15) and check valve (14) from body (11) by using a magnet.

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CAUTION: Bleed air from the hydraulic oil tank. (Refer to W1-4-1.)

CAUTION: Release any pressure in the hydraulic circuit. (Refer to W1-5-1.)

5. Disconnect hoses (4) (2 used) from blade cylinder (1).

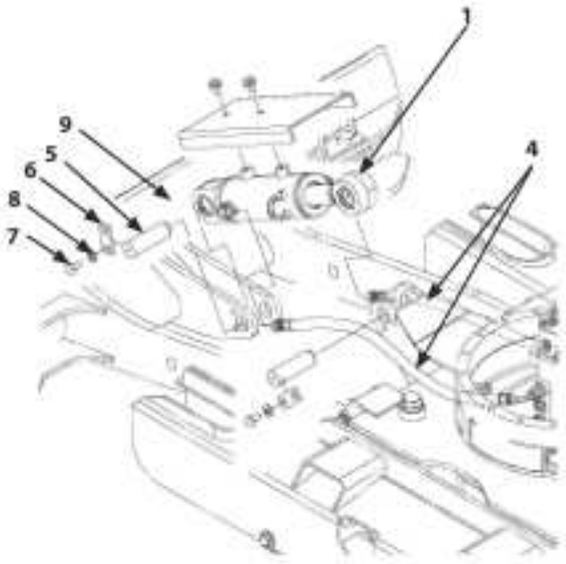
: 19 mm

CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, hard hat, etc. in order to prevent personal injury.

6. Remove bolts (7) (2 used) and washers (8) (2 used) from lock (6). Remove pin (5) from blade (9) by using a bar and a hammer. Remove blade cylinder (1).

: 19 mm

NOTE: LOCTITE #263 or equivalent has been applied on bolt (7).



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5. Remove the wires from the boom cylinder (5) rod side.

CAUTION: Boom cylinder (5) weight: 32 kg (71 lb)

6. Hoist boom cylinder (5). Start the engine with the cylinder rod of boom cylinder (5) retracted to the stroke end. Extend boom cylinder (5) slowly. Fit the pin (4) holes of the boom cylinder (5) cylinde rod side and the boom.

CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, hard hat, etc. in order to prevent personal injury.

7. Install shims (12) to both sides of the cylinder rod boss. Adjust total clearance of right and left within 0.5 mm. Install pin (4) by using a hammer. Secure pin (4) to the boom with bolt (1), spring washer (2), and bushing (3).

: 19 mm

: 90 N·m (9 kgf·m, 66 lbf·ft)

NOTE: Shim (12) thickness: 0.5 mm, 1.0 mm

8. Install caps (11) (2 used). Install cover (6) to boom cylinder (5) with bolts (7) (2 used), spring washers (8) (2 used), and washers (9) (2 used).

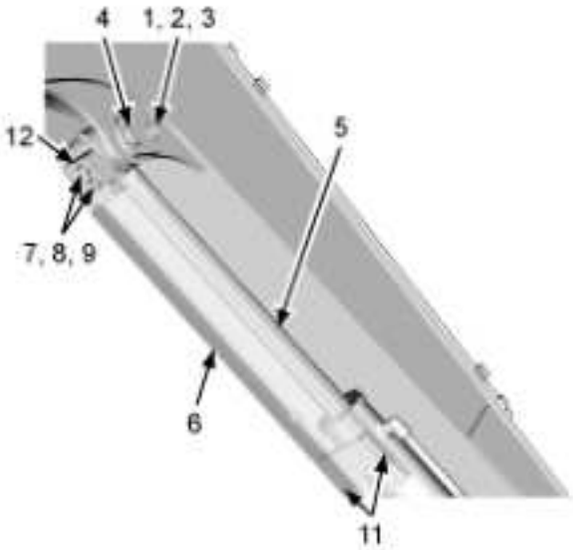
: 17 mm

: 50 N·m (5 kgf·m, 37 lbf·ft)

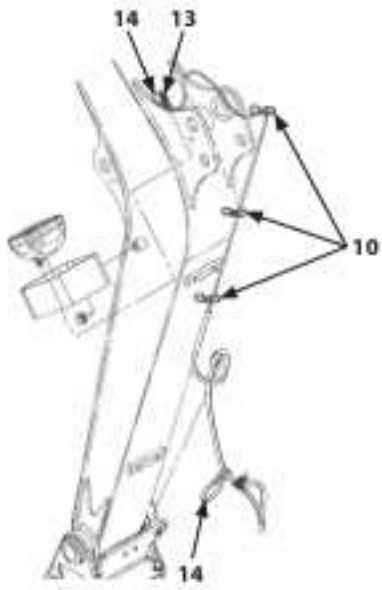
NOTE: LOCTITE #263 or equivalent has been applied on bolt (7).

9. Pass the light harness through clips (10) (3 used). Connect connector (13). Secure the light harness and the boom pipes with clips (10) (3 used). Install clips (14) (2 used).

IMPORTANT: After completing the work, add hydraulic oil to the specified level. Operate each cylinder to the stroke end several times and bleed air in the circuit. Check for any oil leak of each hose connection.



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