PART NO. WDCE-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX
240-5G
240LC-5G
250H-5G
250LCH-5G

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TODCE-EN
Technical Manual (Troubleshooting)	: Vol. No.TTDCE-EN
Workshop Manual	: Vol. No.WDCE-EN
Engine Manual	: Vol. No.EDCD-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:**
Indicated 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)

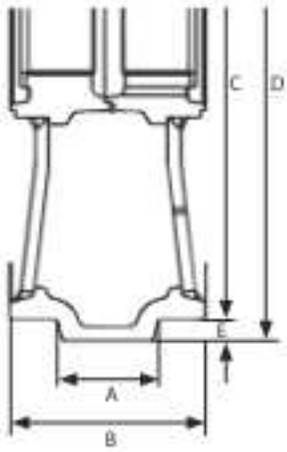
A table for conversion from SI units to other system units is shown below for reference purposes.

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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Front Idler



W166-03-05-001

Unit: mm (in)

	Standard	Allowable Limit	Remedy
A	84 (3.31)	[68 (2.67)]	Build up welding and hand finishing
B	159 (6.26)	-	
C	500 (19.7)	[488 (19.2)]	
D	538 (21.2)	-	
E	19 (0.75)	25 (0.98)	

Axle and Bushing

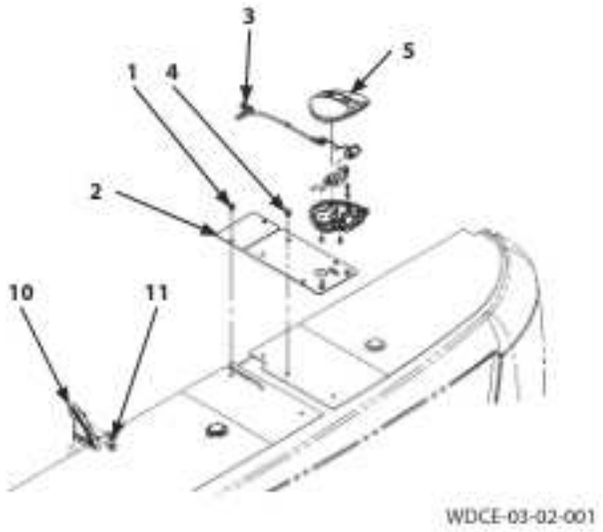
Unit: mm (in)

		Standard	Allowable Limit	Remedy
Axle	Outer Diameter	75.0 (2.95)	[74.2 (2.93)]	Replace
Bushing	Inner Diameter	75.0 (2.95)	[76 (2.99)]	
	Flange Thickness	2 (0.08)	[1.2 (0.05)]	

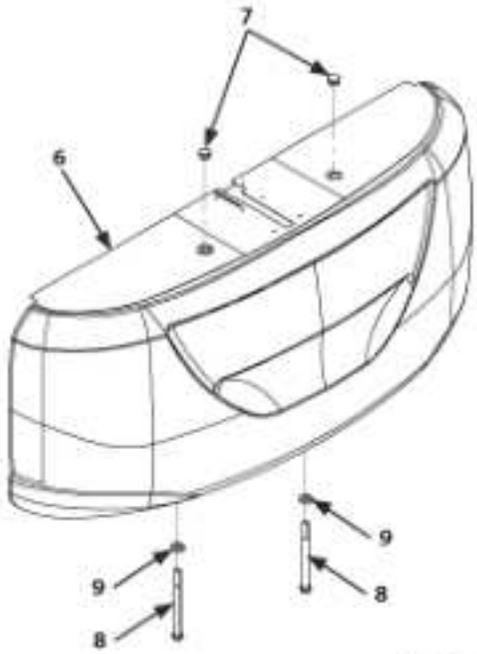
NOTE: Values in [ ] are just for reference.

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Removal and Installation of Counterweight



WDCE-03-02-001



WDAA-03-02-002

Removal

1. Set the machine position for inspection and maintenance. (Refer to W1-6-1-1.)
2. Open the engine cover.
3. Remove bolts, washers (11) (2 used). Remove cover (10).

   : 17 mm
4. Remove bolts, washers (1) (2 used). Remove cover (2).

   : 17 mm
5. Disconnect connector (3).
6. Remove bolts, washers (4) (4 used). Remove the rearview camera (5) assembly.

   : 17 mm

CAUTION: Counterweight (6) weight:

ZX240-5G, 240LC-5G: 5250kg (11600 lb)

ZX250H-5G, 250LCH-5G: 5900kg (13100 lb)

ZX250K-5G, 250LCK-5G: 6300kg (13900 lb)

7. Remove caps (7) (2 used). Install the Freno-Linkbolt (B-48: M48, Pitch: 5.0 mm) to the cap (7) mounting hole (2 places). Attach a wire rope onto the Freno-Linkbolt. Hoist and hold counterweight (6).
8. Remove bolts (8) (4 used) and washers (9) (4 used). Remove counterweight (6).

   : 46 mm

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6. Stop the engine.

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.)

7. Disconnect hoses (13) (2 used) from the bottom of boom cylinder (2). Cap the open ends.

: 41 mm

8. Disconnect hoses (12) (2 used) from the bottom of boom cylinder (2). Cap the open ends.

: 36 mm

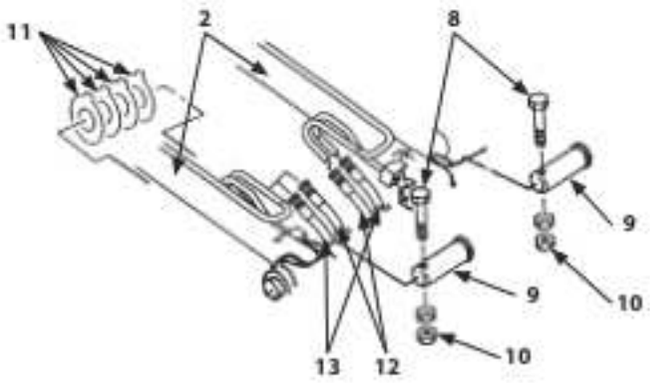
CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, helmets, etc in order to prevent personal injury.

9. Remove nuts (10) (2 used) and bolt (8) from the cylinder bottom side. Remove pin (9) by using a bar and a hammer. Remove thrust plates (11).

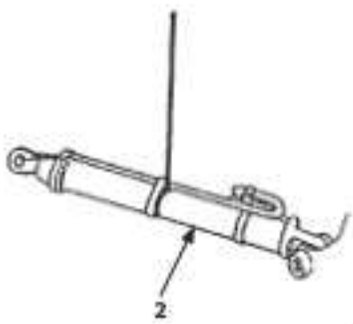
: 30 mm

CAUTION: Boom cylinder (2) weight: 210 kg (465 lb)

10. Hoist and remove boom cylinder (2).
11. Remove the other boom cylinder in the same way.



W178-04-02-009



W105-04-02-040

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