PART NO. WLBA-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX170W-5B

Wheeled Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOLBA-EN
Technical Manual (Troubleshooting)	: Vol. No.TTLBA-EN
Workshop Manual	: Vol. No.WLBA-EN
Engine Manual	: Vol. No.ETDCA-EN, EWDCA-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)

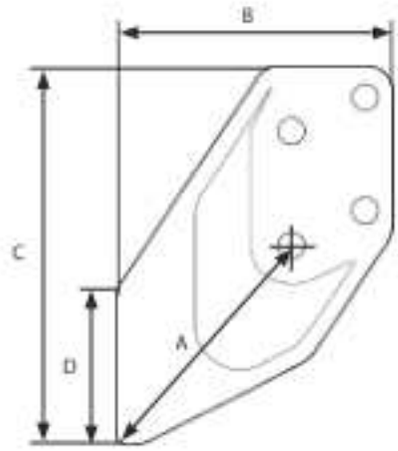
A table for conversion from SI units to other system units is shown below for reference purposes.

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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Side Cutter (2015428, 2015429)

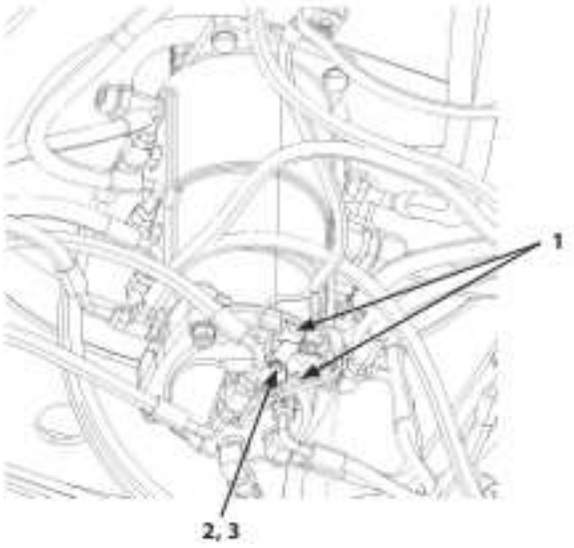


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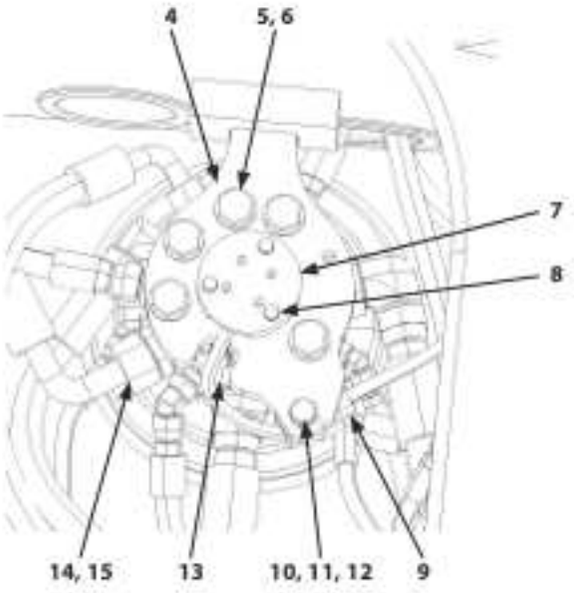
Unit: mm (in)

	Standard	Allowable Limit	Remedy
A	229 (9.02)	149 (5.87)	Replace
B	245 (9.65)	-	
C	330 (13.0)	-	
D	135 (5.32)	-	

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WL8A-04-03-002



WL8A-04-03-001

CAUTION: Depress the brake pedal more than 20 times and release any pressure in the circuit.

11. Remove bolt, washer (2) and clips (3) (2 used).

    : 10 mm

12. Disconnect connectors (1) (2 used).
13. Remove bolt (10), washer (11), and clip (12).

    : 17 mm

14. Disconnect connector (9).
15. Remove bolts, washers (8) (3 used). Remove the slip ring (7) assembly.

    : 10 mm

16. Remove bolts (5) (5 used) and washers (6) (5 used). Remove stopper (4).

    : 24 mm

NOTE: LOCTITE #262 has been applied on bolt (5).

17. Disconnect all hoses (14) and adapters (15) from the upper side of center joint (13).

    : 17 mm, 19 mm, 22 mm, 27 mm, 36 mm

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6. Measure dimensions A, B, and F. Record them. Assemble bearing (61). Touch the roller without a gap. Measure dimension A. At this time, turn bearing (61) in both directions several times and reduce play. Measure dimension B. Install steel ball (a) (diameter: 7.0 mm (0.28 in)) to the center hole of pinion (62). Measure dimension F.

NOTE: *Dimension A: Height of bearing (61)*

Dimension B: Dimension between the shim (63) mounting surface of cover (60) and the rear axle mounting surface

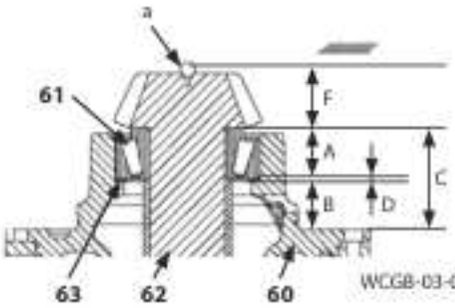
Dimension C: 73.0 mm (2.87 in) (fixed value)

Dimension D: Shim thickness

Dimension E: Value taking 0.1 mm (0.004 in) from dimension A

Dimension F: Height of pinion (62) gear part

NOTE: *Dimension F is necessary at step 28.*



WCGB-03-04-012

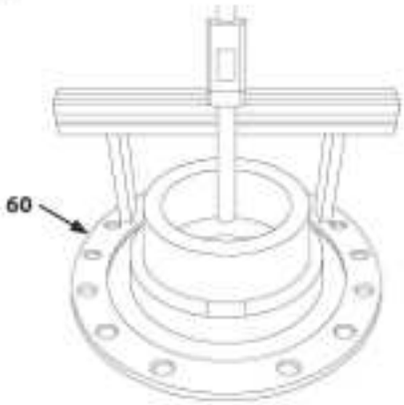
a- Steel Ball

Dimension A



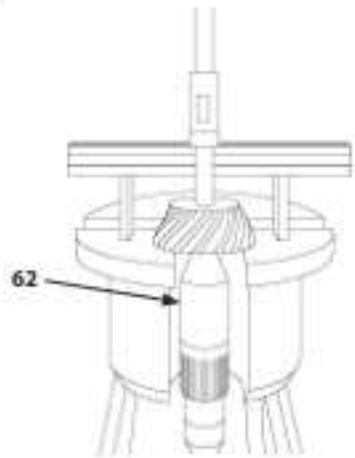
WLAA-04-04-003

Dimension B



WLAA-04-04-004

Dimension F



WLAA-04-04-002

7. Decide the shim (63) thickness so that total of dimensions B, E, and D (shim (63) thickness), which have been measured at step 6, can be dimension C (73.0 mm (2.87 in)). Install shim (63) to cover (60).

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