PART NO. WDAD-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX
130-5B
130LCN-5B
Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TODAD-EN
Technical Manual (Troubleshooting)	: Vol. No.TTDAD-EN
Workshop Manual	: Vol. No.WDAD-EN
Engine Manual	: Vol. No.EDBE-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)

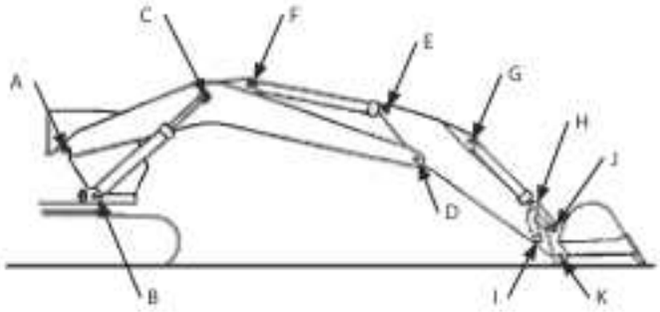
A table for conversion from SI units to other system units is shown below for reference purposes.

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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Pin and Bushing



W1V1-04-01-012

Unit: mm (in)

	Part Name	Standard	Allowable Limit	Remedy
A	Pin	71 (2.80)	70 (2.76)	Replace
	Bushing (Main Frame)	71 (2.80)	72.5 (2.85)	
	Bushing (Boom)	71 (2.80)	72.5 (2.85)	
B	Pin	71 (2.80)	70 (2.76)	
	Boss (Main Frame)	71 (2.80)	72.5 (2.85)	
	Bushing (Boom Cylinder)	71 (2.80)	72.5 (2.85)	
C	Pin	71 (2.80)	70 (2.76)	
	Bushing (Boom Cylinder)	71 (2.80)	72.5 (2.85)	
	Boss (Boom)	71 (2.80)	72.5 (2.85)	
D	Pin	71 (2.80)	70 (2.76)	
	Boss (Boom)	71 (2.80)	72.5 (2.85)	
	Bushing (Arm)	71 (2.80)	72.5 (2.85)	
E	Pin	71 (2.80)	70 (2.76)	
	Boss (Arm)	71 (2.80)	72.5 (2.85)	
	Bushing (Arm Cylinder)	71 (2.80)	72.5 (2.85)	
F	Pin	71 (2.80)	70 (2.76)	
	Boss (Boom)	71 (2.80)	72.5 (2.85)	
	Bushing (Arm Cylinder)	71 (2.80)	72.5 (2.85)	

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7. Install a seal tape onto the thread part of plug (07). Install plug (07) to bearing (00).

   : 6 mm

   : 15 N·m (1.5 kgf·m, 11 lbf·ft)

CAUTION: The idler (03A) assembly weight:

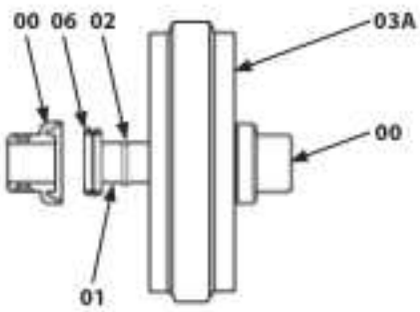
ZX130-5B: 62 kg (140 lb)

ZX130LCN-5B: 61 kg (135 lb)

8. Attach nylon slings onto the idler (03A) assembly. Hoist the idler (03A) assembly. Turn over the idler (03A) assembly.

IMPORTANT: Handle floating seal (06) with care. (Refer to W4-5-3.)

9. Install other O-ring (02) to axle (01). Apply engine oil onto the sliding surface of floating seal (06) and the outer surface of O-ring. Install other floating seal (06) to idler (03A) and bearing (00).



W157-03-05-005

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.

10. Fit the matching marks made when disassembling and install bearing (00) to axle (01) by using a plastic hammer. Install pin (05) to bearing (00) by using a bar and a hammer.

11. Install a seal tape onto the thread part of plug (07). hole of bearing (00).

NOTE: Oil amount: 0.24 L (0.253 US qt)

12. Install a seal tape onto the thread part of plug (07). Install plug (07) to bearing (00).

    : 6 mm

    : 15 N·m (1.5 kgf·m, 11 lbf·ft)

13. Install yoke (11) to bearings (00) (2 used) with bolts (12) (4 used).

    : 24 mm

    : 210 N·m (21 kgf·m, 155 lbf·ft)

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