PART NO. WDAK90-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX130-5A

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TODAK90-EN
Technical Manual (Troubleshooting)	: Vol. No.TTDAK90-EN
Workshop Manual	: Vol. No.WDAK90-EN
Engine Manual	: Vol. No.EDBL-EN

MidWestTech | Hitachi ZX130-5A Excavator Workshop Service Manual | Publication WDAK90-EN-00

Order the manual at mid-west-tech.com >

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)

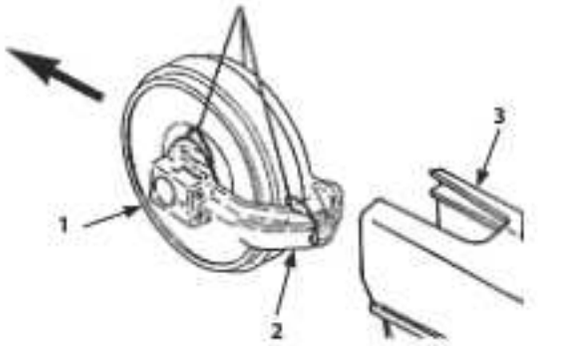
A table for conversion from SI units to other system units is shown below for reference purposes.

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

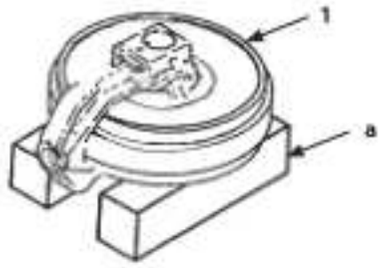
NOTE: The numerical value in this manual might be different from the above-mentioned table.

MidWestTech | Hitachi ZX130-5A Excavator Workshop Service Manual | Publication W... Order the manual at mid-west-tech.com >

Removal and Installation of Front Idler



W178-03-05-001



a- Wooden Block

W178-03-05-002

Removal

Before removing the front idler, the tracks should be removed first. (Refer to 4-7-1.) Therefore, the procedure starts on the premise that the tracks have already been removed here.

CAUTION: Front idler (1) may fly out due to the spring force when removing front idler (1). Do not stand in the same direction to remove front idler (1) or where front idler (1) may fly out.

1. Remove front idler (1) with yoke (2) together from track frame (3) by using a pry bar.

CAUTION: Front idler (1) weight: 81 kg

2. Attach the nylon slings onto the bearing part and the yoke (2) part of front idler (1). Hoist and remove front idler (1) from track frame (3).
3. When keeping front idler (1) temporarily, place front idler (1) on wooden blocks (a) as illustrated.

MidWestTech | Hitachi ZX130-5A Excavator Workshop Service Manual | Publication W... Order the manual at mid-west-tech.com >

Installation

CAUTION: Front attachment assembly (7) weight: 2240 kg

IMPORTANT: Use one or more thrust plates (6) respectively at the right and left sides.

1. Attach wire ropes onto front attachment assembly (7). Hoist front attachment assembly (7). Move front attachment assembly (7) and fit the boom foot to the boom mounting hole on the frame. Install thrust plates (6) to right and left sides. Adjust total clearance of right and left sides within 1 mm (0.039 in). (Adjust the position by using the lifting ropes for front attachment assembly (7).)

NOTE: Thrust plate thickness: 2 mm, 2.5 mm, 3 mm

CAUTION: Boom foot pin (1) weight: 29 kg

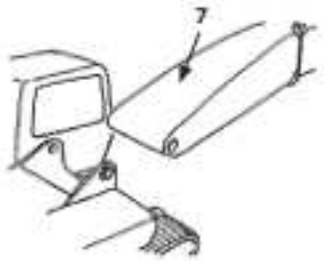
CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, hard hat, etc. in order to prevent personal injury.

2. Install boom foot pin (1) by using a hammer. Install block (5), plate (4), washer (2), and bolt (3).

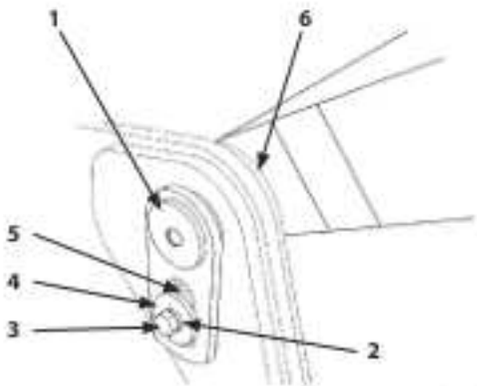
: 27 mm

: 400 N·m (40 kgf·m)

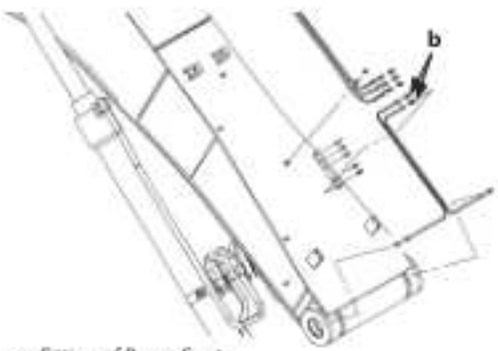
3. Apply grease to grease fitting (b) (2 places) of the boom foot.



W178-02-11-282



W178-02-11-280



b- Grease Fitting of Boom Foot

WD8L-05-01-003

MidWestTech | Hitachi ZX130-5A Excavator Workshop Service Manual | Publication W... Order the manual at mid-west-tech.com >