PART NO. WPD850-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZW

180-6

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOPD850-EN
Technical Manual (Troubleshooting)	: Vol. No.TTPD850-EN
Workshop Manual	: Vol. No.WPD850-EN

MidWestTech | Hitachi ZW180-6 Wheel Loader Workshop Service Manual | Publication WPD850-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.

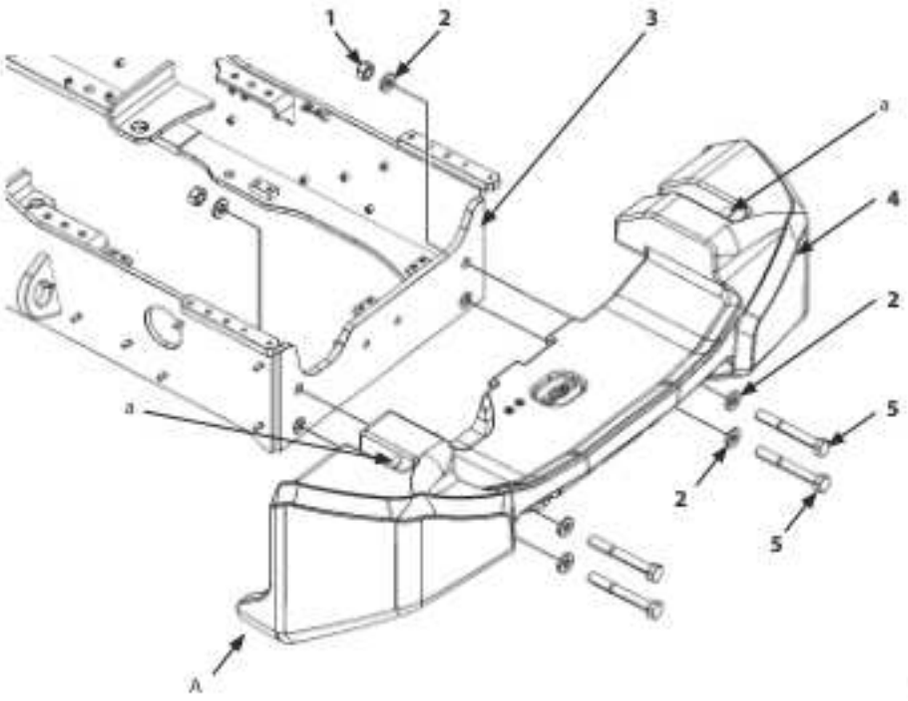
Units Used

SI Units (International System of Units) are used in this manual.

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

MidWestTech | Hitachi ZW180-6 Wheel Loader Workshop Service Manual | Publicatio... Order the manual at mid-west-tech.com >



a: Hoisting Position

WNEK50-03-02-001

Installation

IMPORTANT: Keep the rear grill open when installing.

CAUTION: Counterweight (4) weight: 1460 kg (3220 lb)

1. Attach nylon slings onto hoisting positions (a) (2 places) of counterweight (4). Hoist and fit counterweight (4) to the mounting holes on rear frame (3).

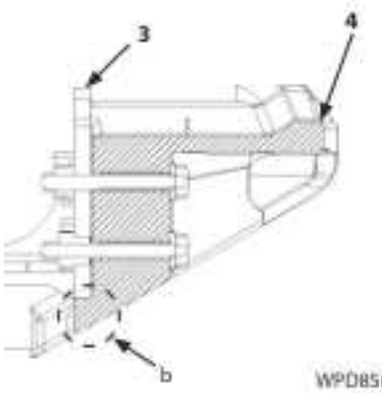
IMPORTANT: When installing counterweight (4), install counterweight (4) while positions (b) (2 places) of counterweight (4) with rear frame (3).

2. Install counterweight (4) to rear frame (3) with bolts (5) (4 used), washers (2) (6 used), and nuts (1) (2 used).

: 46 mm

: 1510 N·m (1110 lbf·ft)

View A



WPD850-03-02-001

MidWestTech | Hitachi ZW180-6 Wheel Loader Workshop Service Manual | Publicatio... Order the manual at mid-west-tech.com >

8. Install O-rings (40, 39, and 38) to sleeve (43A). Install spool (43B) to sleeve (43A).
9. Install spring (20) and the sleeve (43A) assembly to body (22).
10. Install O-ring (41) to solenoid (17). Install solenoid (17) to body (22) with socket bolts (28) (2 used).

    : 4 mm

    : 3.92±0.4 N·m (2.9±0.3 lbf·ft)

11. Install O-ring (34) to plug (09). Install plunger (06), spring (07), and plug (09) to body (22).

    : 6 mm

    : 12.0±1.2 N·m (8.9±0.9 lbf·ft)

12. Install O-ring (37) to plug (01). Install poppet (03), spring (04), shims (02, 05), and plug (01) to body (22).

    : 36 mm

    : 98±9.8 N·m (72±7.2 lbf·ft)

MidWestTech | Hitachi ZW180-6 Wheel Loader Workshop Service Manual | Publicatio... Order the manual at mid-west-tech.com >