PART NO. WJBA-EN-01

HITACHI

Reliable solutions

Workshop Manual

ZX
670LC-5B
670LCH-5B
670LCR-5B
Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOJBA-EN
Technical Manual (Troubleshooting)	: Vol. No.TTJBA-EN
Workshop Manual	: Vol. No.WJBA-EN
Engine Manual	: Vol. No.ETJBA-EN, EWJBA-EN

MidWestTech | Hitachi ZX670LC-5B, ZX670LCH-5B, ZX670LCR-5B Excavator Workshop Service Manual | Publication WJBA-EN-01

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:**
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.

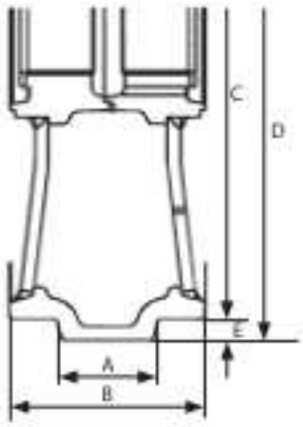
Quantity	To Convert From	Into	Multiply By
Length	mm	in	0.03937
	mm	ft	0.003281
Volume	L	US gal	0.2642
	L	US qt	1.057
	m^3	yd^3	1.308
Weight	kg	lb	2.205
Force	N	kgf	0.10197
	N	lbf	0.2248
Torque	N·m	kgf·m	0.10197
Pressure	MPa	kgf/cm^2	10.197
	MPa	psi	145.0
Power	kW	PS	1.360
	kW	HP	1.341
Temperature	°C	°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.

MidWestTech | Hitachi ZX670LC-5B, ZX670LCH-5B, ZX670LCR-5B Excavator Worksh... Order the manual at mid-west-tech.com >

Front Idler

Idler



W166-03-05-001

Unit: mm (in)

	Standard	Allowable Limit	Remedy
A	126 (5.0)	-	Cladding by welding and finish or replace
B	260 (10.2)	-	
C	800 (31.5)	780 (30.7)	
D	845 (33.3)	-	
E	22.5 (0.9)	32.5 (1.3)	

Axle and Bushing

Unit: mm (in)

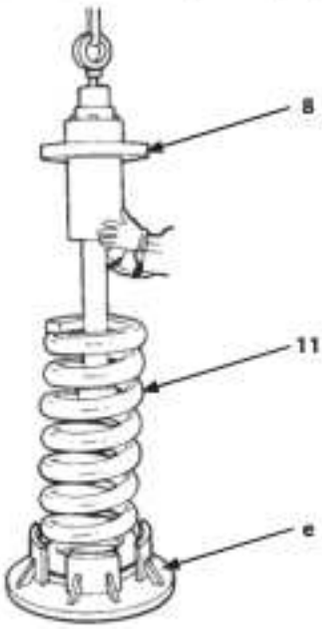
		Standard	Allowable Limit	Remedy
Axle	Outside Dia.	120 (4.7)	[119.2 (4.7)]	Replace
Bushing	Inside Dia.	120 (4.7)	[121 (4.8)]	
	Flange Thickness	6 (0.2)	[5.2 (0.2)]	

NOTE: Values in [ ] are just for reference.

MidWestTech | Hitachi ZX670LC-5B, ZX670LCH-5B, ZX670LCR-5B Excavator Worksh... Order the manual at mid-west-tech.com >

CAUTION: The cylinder (8) assembly weight: 135 kg (300 lb)

10. Remove the cylinder (8) assembly from spring (11).



W142-03-04-007

CAUTION: Spring (11) weight: 213 kg (470 lb)

11. Remove wire (g) which secure spring (11) and bracket (12). Attach a nylon sling onto spring (11). Hoist spring (11). Remove spring (11) from holder (e).

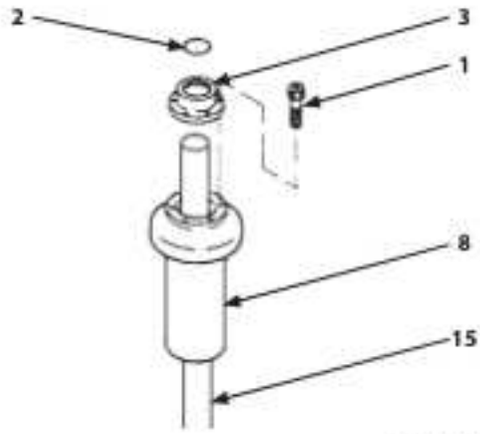
CAUTION: Spacer (10) weight: 22 kg (49 lb)

CAUTION: Bracket (12) weight: 30 kg (67 lb)

12. Remove spacer (10) and bracket (12) from holder (e).

13. Remove socket bolts (1) (6 used) from guide (3). Remove guide (3) from piston rod (4).

: 12 mm



W142-03-04-010

14. Remove piston rod (4) from cylinder (8).

15. Remove O-ring (2) from guide (3).

MidWestTech | Hitachi ZX670LC-5B, ZX670LCH-5B, ZX670LCR-5B Excavator Worksh... Order the manual at mid-west-tech.com >

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.)

3. Disconnect hoses (17, 18).

   : 19 mm

4. Disconnect the both ends of hoses (16, 14).

   : 27 mm

5. Disconnect the both ends of hoses (15, 13).

   : 36 mm

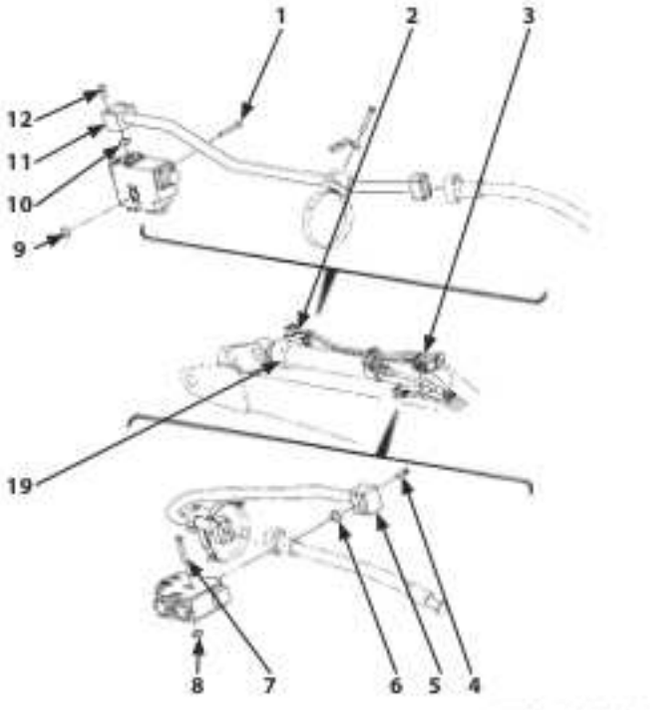
6. Remove socket bolts (4, 12) (4 used for each). Remove O-rings (6, 10) and pipes (5, 11) from hose rupture valves (3, 2).

   : 12 mm

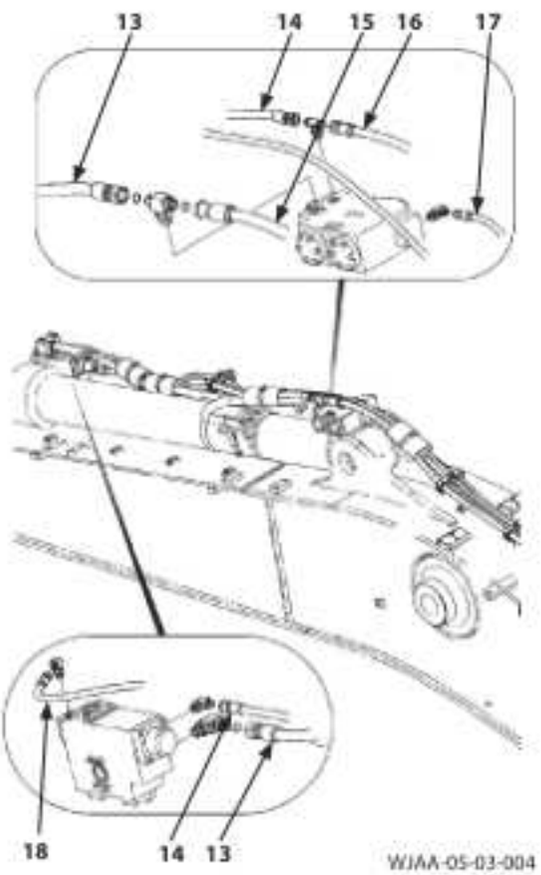
7. Remove socket bolts (7, 1) (4 used for each). Remove O-rings (8, 9) and hose rupture valves (3, 2) from arm cylinder (19).

   : 12 mm

8. Remove the adapters with hose rupture valves (2, 3) attached if necessary.



WJAA-05-03-003



WJAA-05-03-004

MidWestTech | Hitachi ZX670LC-5B, ZX670LCH-5B, ZX670LCR-5B Excavator Worksh... Order the manual at mid-west-tech.com >