PART NO. WDDK90-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX
330-5A
330LC-5A
350H-5A
350LCH-5A
350K-5A
350LCK-5A

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TODDK90-EN
Technical Manual (Troubleshooting)	: Vol. No.TTDDK90-EN
Workshop Manual	: Vol. No.WDDK90-EN
Engine Manual	: Vol. No.ETDDK-EN, EWDDK-EN

MidWestTech | Hitachi ZX330-5A, ZX330LC-5A, ZX350H-5A, ZX350LCH-5A, ZX350K-5A, ZX350LCK-5A Excavator Workshop Service Manual | Publication WDDK90-EN-00

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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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Unit: mm (in)

	Part Name	Standard	Allowable Limit	Remedy
G	Pin	90 (3.54)	89.0 (3.50)	Replace
	Boss (Arm)	90 (3.54)	91.5 (3.60)	
	Bushing (Bucket Cylinder)	90 (3.54)	91.5 (3.60)	
H	Pin	100 (3.94)	99.0 (3.90)	
	Boss (Link B)	100 (3.94)	101.5 (3.99)	
	Bushing (Link A)	100 (3.94)	101.5 (3.99)	
	Bushing (Bucket Cylinder)	100 (3.94)	101.5 (3.99)	
I	Pin	90 (3.54)	89.0 (3.50)	
	Boss (Link B)	90 (3.54)	91.5 (3.60)	
	Bushing (Arm)	90 (3.54)	91.5 (3.60)	
J	Pin	100 (3.94)	99.0 (3.90)	
	Boss (Bucket)	100 (3.94)	101.5 (3.99)	
	Bushing (Link A)	100 (3.94)	101.5 (3.99)	
K	Pin	100 (3.94)	99.0 (3.90)	
	Boss (Bucket)	100 (3.94)	101.5 (3.99)	
	Bushing (Arm)	100 (3.94)	101.5 (3.99)	

IMPORTANT: When replacing HN bushing for the front attachment, install it by using a press.

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Assembly of Track Adjuster

CAUTION: Cylinder (00A) weight: 31 kg (69 lb)

CAUTION: The cylinder (00A) assembly weight: 46 kg (105 lb)

1. Apply grease to the inner circumference of cylinder (00A). Install rod (00B) to cylinder (00A) by using a press.

NOTE: Pushing force: 9.49 to 19.5 tons

2. Apply grease to seal (04) and dust seal (05). Install seal (04) and dust seal (05) to cylinder (00A).
3. Install spacer (01) to rod (00B).

CAUTION: Spring (02) weight: 110 kg (245 lb)

4. Install spring (02) to rod (00B).

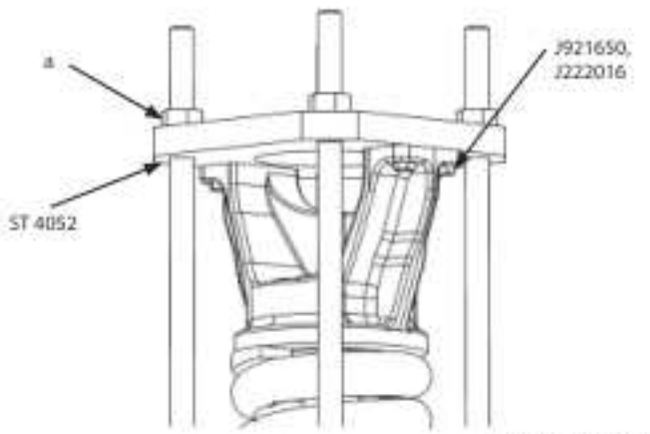
CAUTION: The spring (02) assembly weight: 160 kg (355 lb)

5. Install Freno-Link bolts (A-10: M10, pitch 1.5 mm) to the bolt (09) holes of rod (00B). Attach nylon slings onto the eyebolts. Hoist the spring (02) assembly. Place the spring (02) assembly on special tool (ST 4950).
6. Remove the eyebolts from rod (00B).

CAUTION: Yoke (03) weight: 32 kg (71 lb)

7. Install eyebolts (M16, Pitch 2.0 mm) (2 used) and nuts (2 used) to the bolt holes (2 places) of yoke (03) diagonally. Attach nylon slings onto the eyebolts. Hoist yoke (03).
8. Place yoke (03) on spring (02). Remove the eyebolts (2 used) and nuts (2 used) from yoke (03). Install special tool (ST4052). Install bolts (J921650) (4 used) and washers (J222016) (4 used) to the bolt holes (4 places) of yoke (03). Secure special tool (ST 4052) and yoke (03) with them.

: 24 mm



WDCD-04-04-013

a- Nut

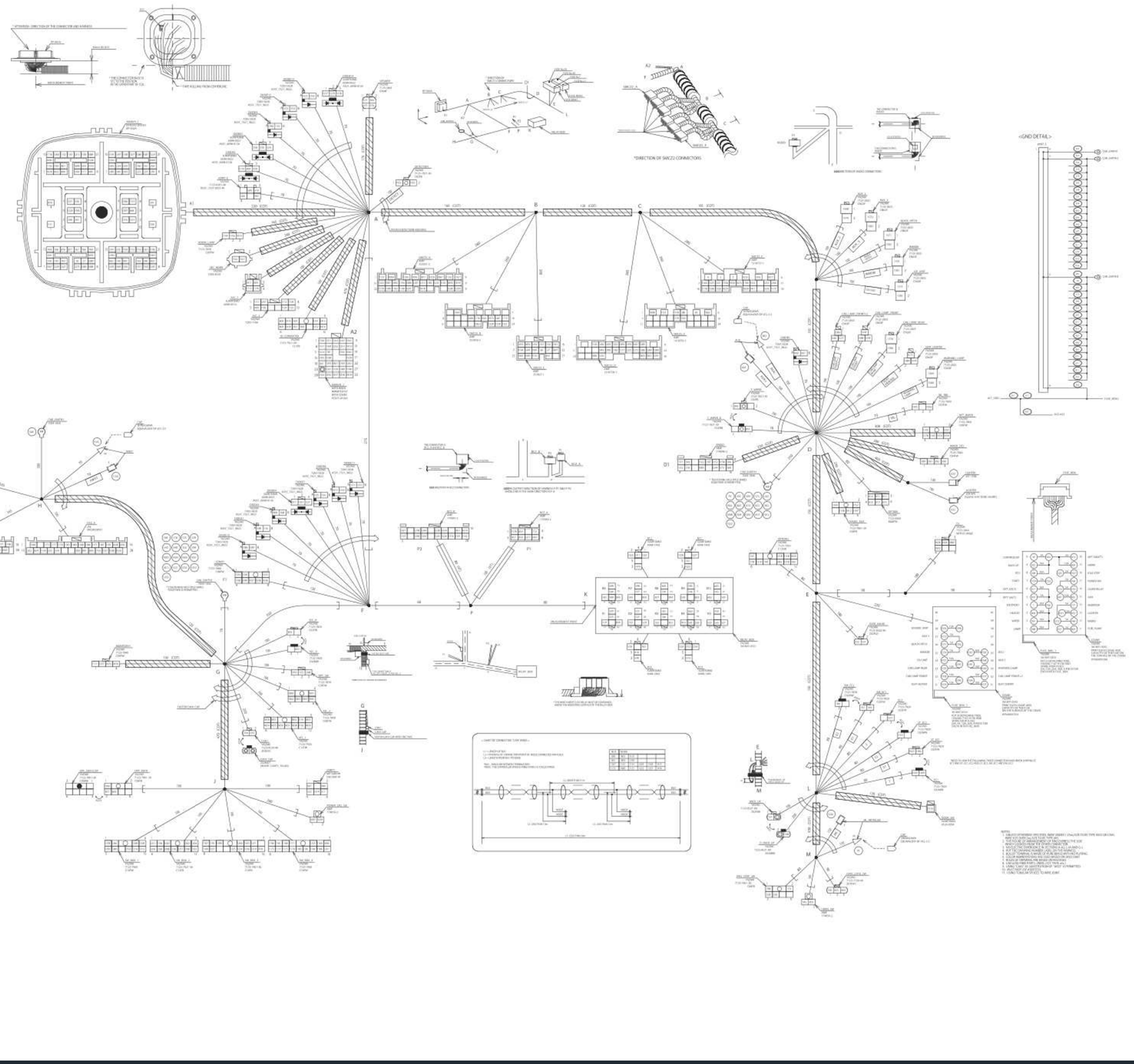
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CAB HARNESS

Applicable Machine

Attach to vol. No.	Model
TTDAK90-EN-00	ZX130-5A
TTDBL90-EN-00	ZX160LC-5A
TTDCX90-EN-00	ZX200-5A/200LC-5A/210H-5A/210LCH-5A/210K-5A/210LCK-5A
TTDCY90-EN-00	ZX240-5A/240LC-5A/250H-5A/250LCH-5A/250K-5A/250LCK-5A
TTDDW90-EN-00	ZX300-5A/300LC-5A
TTDDK90-EN-00	ZX330-5A/330LC-5A/350H-5A/350LCH-5A/350K-5A/350LCK-5A

▲ CAUTION: Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing, be sure to consult the Parts Catalog.



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