PART NO. WLBKE0-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZX190W-5A

Wheeled Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOLBKE0-EN
Technical Manual (Troubleshooting)	: Vol. No.TTLBKE0-EN
Workshop Manual	: Vol. No.WLBKE0-EN
Engine Manual	: Vol. No.ETDCY-EN, EWDCY-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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Disassembly of Housing

CAUTION: The housing A (00A) assembly weight: 65 kg

The housing B (00B) assembly weight: 84 kg

1. Remove socket bolts (00J) (4 used) from housing C (00C).

   : 12 mm

2. Remove housing C (00C) from housing A (00A).
3. Remove socket bolts (00J) (5 used) from housing A (00A).

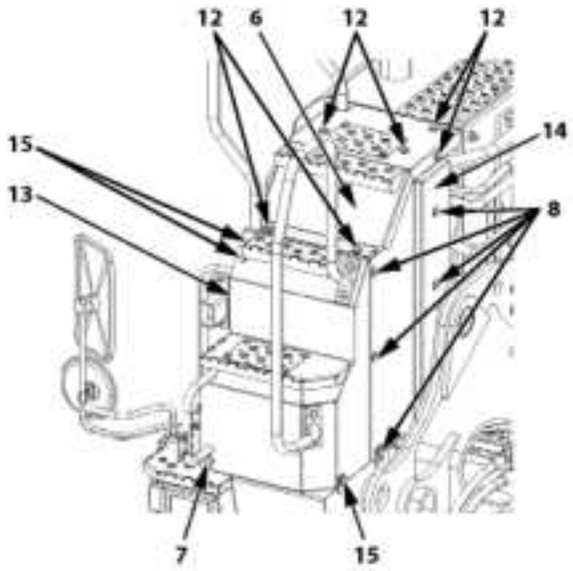
   : 12 mm

4. Remove housing B (00B) from housing A (00A).

IMPORTANT: Do not remove knock pin (00D) unless necessary.

5. Remove O-rings (00G) (11 used), O-rings (00H) (7 used), and O-rings (00I) (3 used) from housing A (00A), housing B (00B), or housing C (00C).

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WLBE-03-09-039

3. Remove bolts, washers (12) (6 used). Remove cover (6).

   : 17 mm

4. Remove bolt, washer (8) (5 used). Remove cover (14).

   : 17 mm

CAUTION: The cover (13) assembly weight: 25 kg

5. Remove bolt, washer (7) and bolts, washers (15) (3 used). Remove the cover (13) assembly.

   : 17 mm

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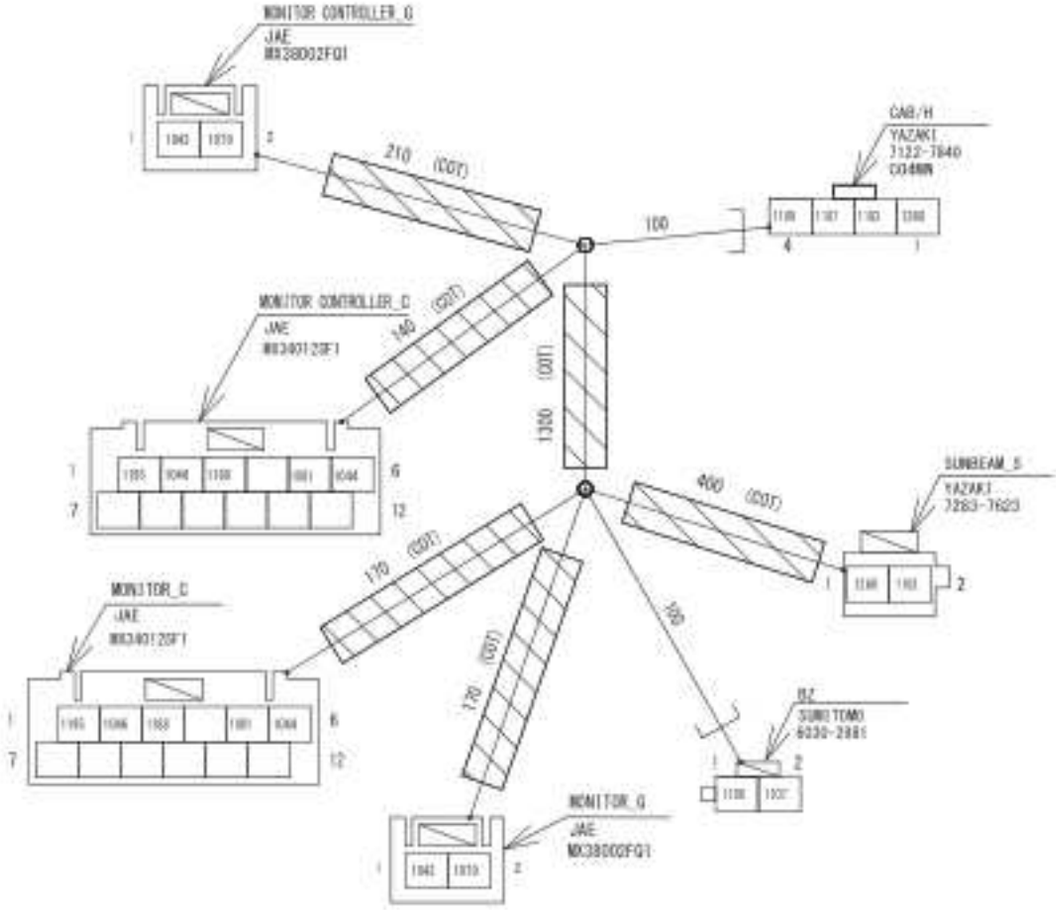
MONITOR HARNESS

> ⚠ 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.

Applicable Machine

Attach to Vol. No.	Model
TTLBJE0-EN-00	ZX170W-5A
TTLBKE0-EN-00	ZX190W-5A
TTLCDE0-EN-00	ZX210W-5A

WIRE			FROM		TO		WIRE	
Label	Size	Color	UNIT	PIN	UNIT	PIN	wireKind	netComment
1042	0.5		MONITOR	G1	MONITOR CONTROLLER	G1	INNER_OF_SHIELD	DEDICATED CABLE
1044	0.5	G	MONITOR CONTROLLER	C6	MONITOR	D6	AVSS	
1046	0.5	Y	MONITOR CONTROLLER	C2	MONITOR	D2	AVSS	
1076	0.5		MONITOR	2	MONITOR CONTROLLER	G2	INNER_OF_SHIELD	DEDICATED CABLE
1081	0.5	BY	MONITOR CONTROLLER	C5	MONITOR	D5	AVSS	
1103	0.3	YR	SUNBEAM_S	2	CAB/H	2	AVSS	
1107	0.5	W	BZ	2	CAB/H	3	AVSS	
1109	0.5	LB	BZ	1	CAB/H	4	AVSS	
1188	0.3	RY	MONITOR CONTROLLER	C3	MONITOR	C3	AVSS	
1195	0.5	L	MONITOR CONTROLLER	C1	MONITOR	C1	AVSS	
1285	0.3	RB	SUNBEAM_S	1	CAB/H	1	AVSS	



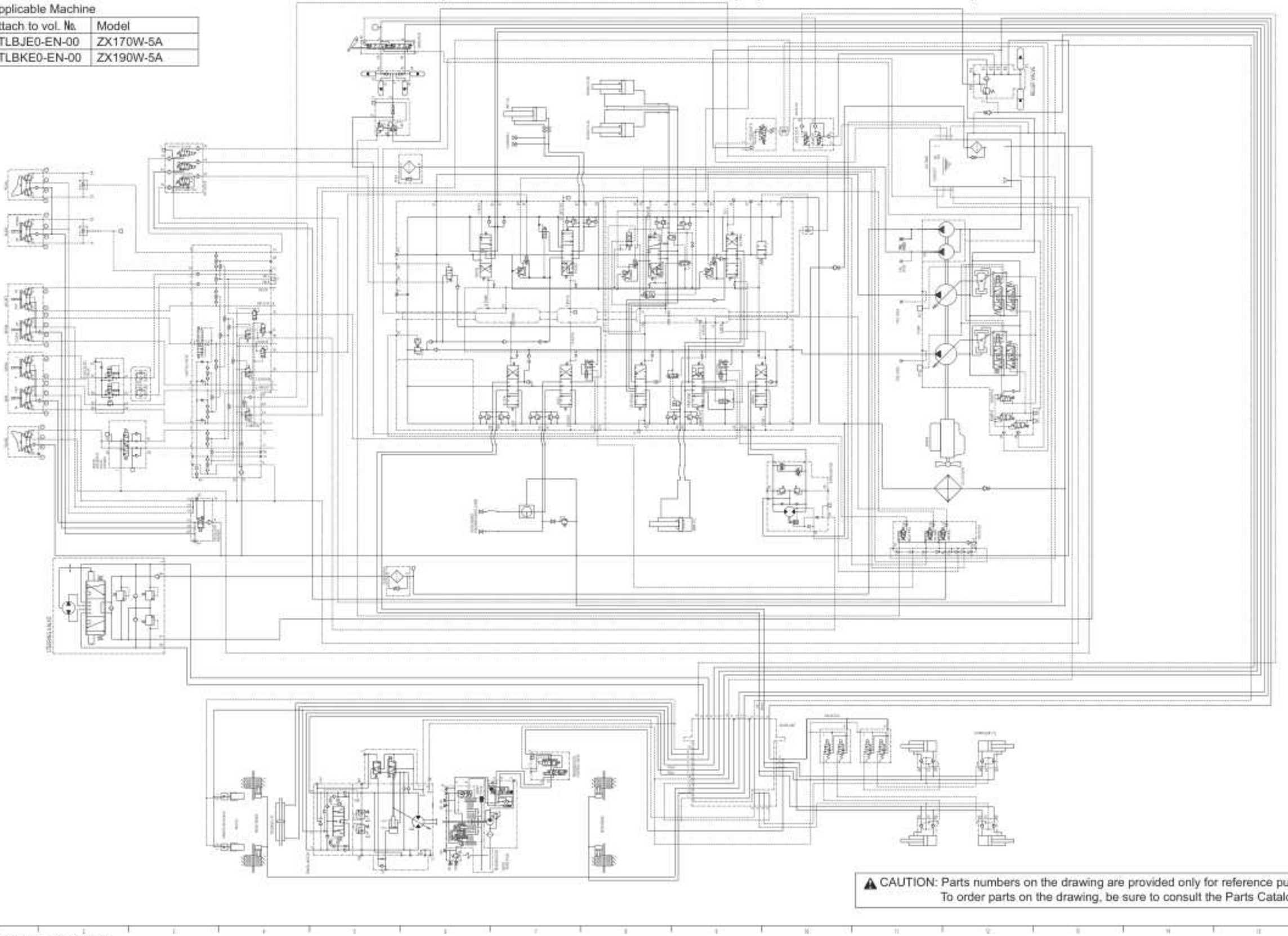
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HYDRAULIC CIRCUIT DIAGRAM (MONOBLOCK BOOM) (FULLY OPTION)

Applicable Machine

Attach to vol. No.	Model
TTLBJE0-EN-00	ZX170W-5A
TTLBKE0-EN-00	ZX190W-5A



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