PART NO. WNHE-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZW

370-5B

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TONHE-EN
Technical Manual (Troubleshooting)	: Vol. No.TTNHE-EN
Workshop Manual	: Vol. No.WNHE-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)

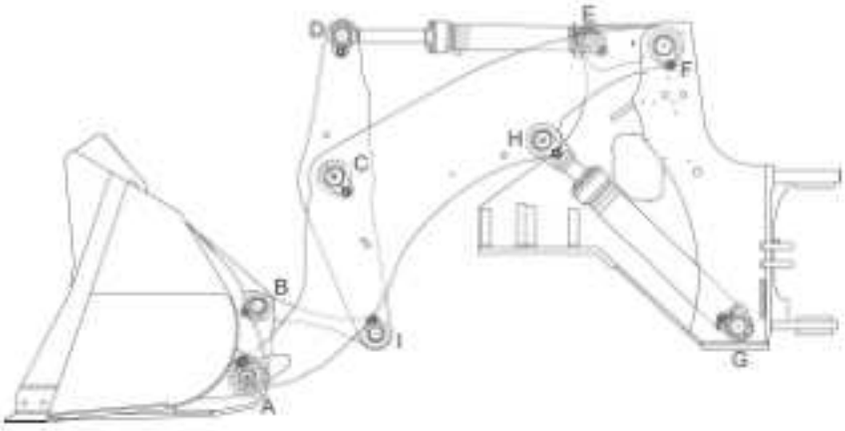
A table for conversion from SI units to other system units is shown below for reference purposes.

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

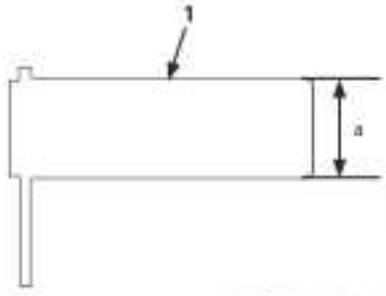
NOTE: The numerical value in this manual might be different from the above-mentioned table.

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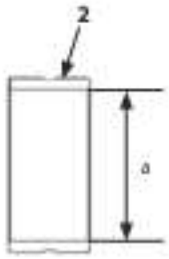
Pin and Bushing



95W4GB-04-01-08



1- Pin WNEC-02-03-001



2- Bushing WNEC-02-03-002

Unit: mm (in)

	Part Name	Standard (a)	Allowable Limit (a)	Remedy
A	Pin	90 (3.54)	89 (3.50)	Replace
	Bushing (Lift Arm)	90 (3.54)	91.5 (3.60)	
B	Pin	80 (3.15)	79 (3.11)	
	Bushing (Bucket Link)	80 (3.15)	81.5 (3.21)	
C	Pin	110 (4.33)	109 (4.29)	
	Bushing (Bell Crank)	110 (4.33)	111.5 (4.39)	
D	Pin	90 (3.54)	89 (3.50)	
	Bushing (Bucket Cylinder)	90 (3.54)	91.5 (3.60)	
E	Pin	90 (3.54)	89 (3.50)	
	Bushing (Bucket Cylinder)	90 (3.54)	91.5 (3.60)	
F	Pin	110 (4.33)	109 (4.29)	
	Bushing (Lift Arm)	110 (4.33)	111.5 (4.39)	
G	Pin	100 (3.94)	99.0 (3.90)	
	Bushing (Lift Arm Cylinder)	100 (3.94)	101.5 (4.00)	
H	Pin	100 (3.94)	99.0 (3.90)	
	Bushing (Lift Arm Cylinder)	100 (3.94)	101.5 (4.00)	
I	Pin	80 (3.15)	79 (3.11)	
	Bushing (Bucket Link)	80 (3.15)	81.5 (3.21)	

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No.	Part Name	Q'ty	Wrench Size mm (in)	Tightening Torque			Remark
				N·m	(kgf·m)	(lbf·ft)	
01	Deck (Left)	1					Weight: 70 kg (154 lb)
02	Deck (Right)	1					Weight: 55 kg (121 lb)
03	Bolt	8	: 19 (0.75)	90	9.1	66.4	
04	Washer	8					
05	Bolt	3	: 17 (0.67)	53	5.4	39	
06	Handrail (Left, Front)	1					Weight: 5.6 kg (12.3 lb)
07	Handrail (Left, Rear)	1					Weight: 7 kg (15.4 lb)
08	Handrail (Right, Front)	1					Weight: 6.5 kg (14.3 lb)
09	Handrail (Right, Rear)						Weight: 7.2 kg (15.9 lb)
10	Bolt	18	: 17 (0.67)	53	5.4	39	
11	Washer	18					
12	Cover	1					Weight: 4 kg (8.8 lb)
13	Bolt	5	: 12 (0.47)	28	2.9	20.7	
14	Bolt	5	: 14 (0.55)	53	5.4	39	
15	Stepladder (Left)	1					Weight: 12 kg (26 lb)
16	Stepladder (Right)	1					Weight: 14 kg (30.9 lb)
17	Bolt	10	: 14 (0.55)	53	5.4	39	
18	Bolt	4	: 17 (0.67)	94	9.6	69.1	
19	Bolt	12	: 17 (0.67)	94	9.6	69.1	
20	Step (Left)	1					Weight: 3 kg (6.6 lb)
21	Step (Right)	1					Weight: 3 kg (6.6 lb)
22	Bolt	4	: 14 (0.55)	53	5.4	39	
23	Cover	1					Weight: 1 kg (2.2 lb)
24	Bolt	4	: 14 (0.55)	53	5.4	39	
25	Step (Left)	1					Weight: 13 kg (28.7 lb)
26	Step (Right)	1					Weight: 15.5 kg (34.2 lb)
27	Step	2					Weight: 2 kg (4.4 lb)
28	Step	1					Weight: 5.7 kg (12.6 lb)
29	Step	1					Weight: 8.6 kg (19.0 lb)

CAUTION: When removing and installing the following parts, hoist and hold them by using nylon slings.

- **Deck (Left) (1)**
- **Deck (Right) (2)**
- **Stepladder (Left) (15)**
- **Stepladder (Right) (16)**
- **Step (Left) (25)**
- **Step (Right) (26)**

CAUTION: When removing deck (right) (2),

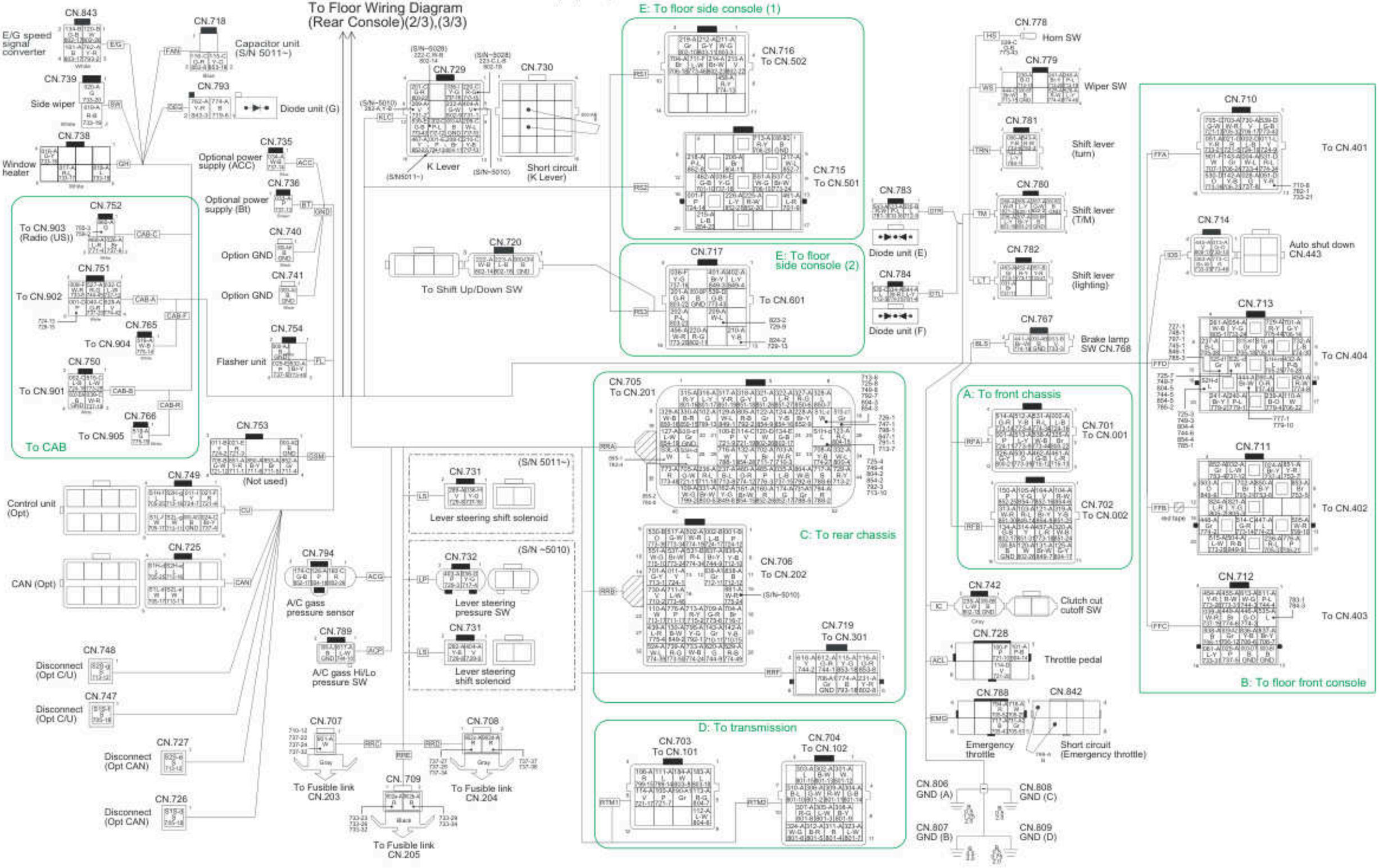
Disconnect connectors (30) (2 used) and hoses (31) (2 used) for the washer tank.

Remove nuts (32) (2 used) and connectors (33, 34, 35) for the controller unit.

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Attach to Vol. No. : TTNHE-EN-00

ZW370-5B FLOOR WIRING DIAGRAM (REAR CONSOLE) (1/3)



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