PART NO. KMCSB-E-00

HITACHI

Reliable solutions

Service Manual

ZX360W-3

Wheeled Material Handler

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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:**
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.

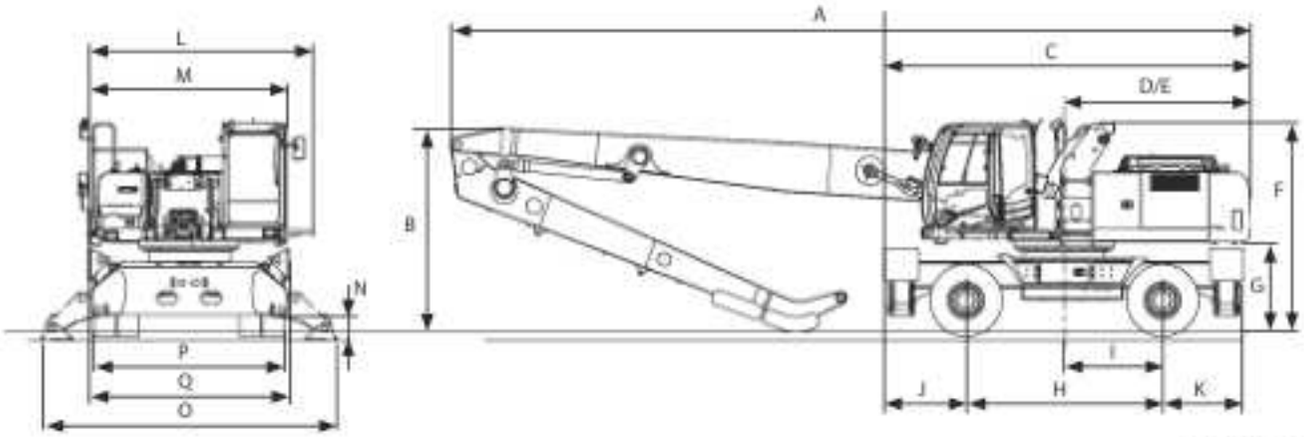
Quantity	To Convert From	Into	Multiply By
Length	mm	in	0.03937
	mm	ft	0.003281
Volume	L	US gal	0.2642
	L	US qt	1.057
	m^3	yd^3	1.308
Weight	kg	lb	2.205
Force	N	kgf	0.10197
	N	lbf	0.2248
Torque	N·m	kgf·m	0.10197
Pressure	MPa	kgf/cm^2	10.197
	MPa	psi	145.0
Power	kW	PS	1.360
	kW	HP	1.341
Temperature	°C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

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Specifications

Machine with Hanging Type Attachment



MCSB-12-001

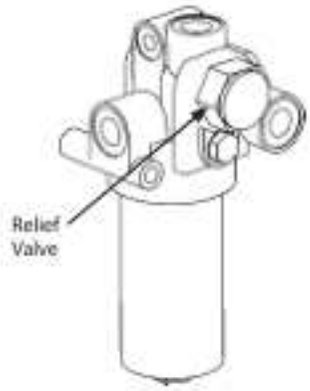
Model			ZX360W-3
Boom		mm (ft-in)	9700 (31' 10")
Arm		mm (ft-in)	7600 (24' 11")
Operating Weight		kg (lb)	36500 (80470)
Engine			ISUZUAH-4HK1XYSA-03
Engine Power	SAEJ 1349 net		140 kW/2100 min^{-1}
	ISO 9249 net		(190 PS/2100 rpm)
	EEC 80/1269 net		
A: Overall Length		mm (ft-in)	13120 (43' 0")
B: Overall Height of Boom		mm (ft-in)	3380 (11' 1")
C: Overall Length of Base Machine		mm (ft-in)	5960 (19' 7")
D: Rear End Swing Radius		mm (ft-in)	3070 (10' 1")
E: Rear End Length		mm (ft-in)	3040 (9' 11")
F: Overall Height of Base Machine		mm (ft-in)	3390 (11' 1")
G: Counterweight Clearance (Lower End)		mm (ft-in)	1410 (4' 7")
H: Wheelbase		mm (ft-in)	3200 (10' 6")
I: Swing-Center to Rear Axle		mm (ft-in)	1600 (5' 3")
J: Front Axle to Front of Chassis		mm (ft-in)	1320 (4' 4")
K: Rear Axle to Rear of Chassis		mm (ft-in)	1320 (4' 4")
L: Overall Width, Width of Upperstructure excluding Rearview Mirrors		mm (ft-in)	3640 (11' 11")
M: Overall Width of Upperstructure excluding Rearview Mirrors		mm (ft-in)	3180 (10' 5")
N: Minimum Ground Clearance		mm (ft-in)	260 (10.2")
O: Overall Width of Outrigger Spread		mm (ft-in)	4820 (15' 10")
P: Overall Width Tire		mm (ft-in)	3100 (10' 2")
Q: Overall Width of Outrigger Retract		mm (ft-in)	3260 (10' 8")
Tire Size		-	12.00-20
Swing Speed		min^{-1}	3.7
Travel Speed (Fast / Slow / Creeper)		km/h	14.0/3.4
Gradeability		Degree (%)	18(32)

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Primary Pilot Pressure Adjustment Procedure

Adjustment:

Adjust the relief valve set pressure if necessary.



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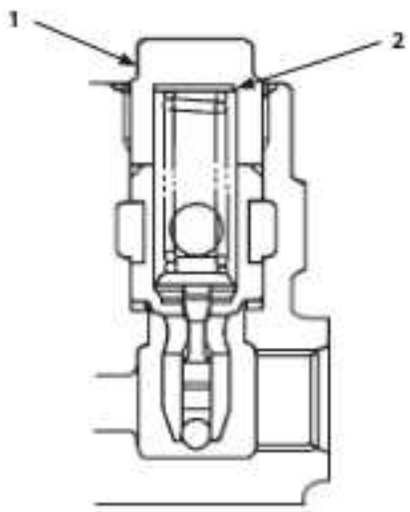
1. Remove plug (1) from the relief valve.

   : 22 mm

2. Install the estimated number of shims (2).
3. After adjustment, tighten plug (1).

   : 25^{+2} N·m ($2.5^{+0.2}$ kgf·m, $18.4^{+1.5}$ lbf·ft)

4. After adjustment, check the set pressure.



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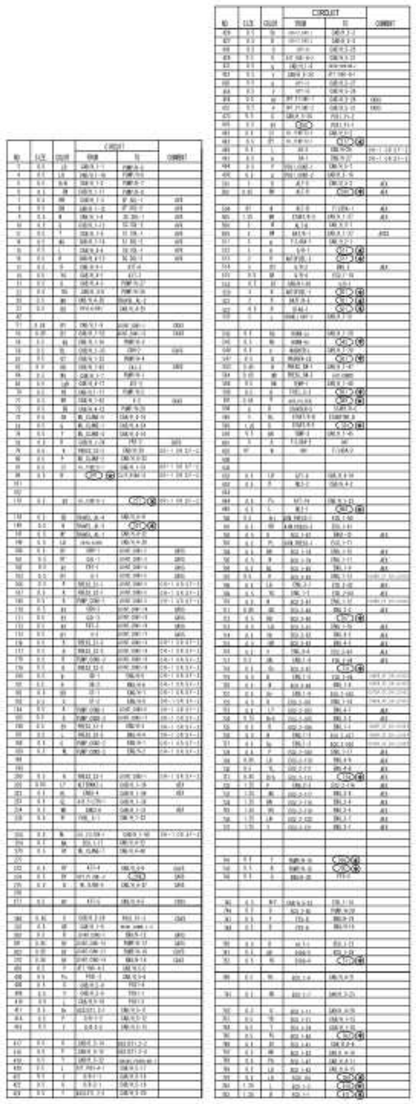
NOTE: Standard Change in Pressure (Reference)

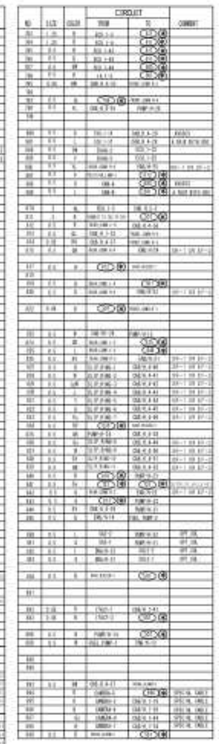
Shim Thickness (mm)	Change in pressure		
	kPa	(kgf/cm²)	(psi)
0.25	78	(0.8)	(11)
0.5	157	(1.6)	(23)
1.0	304	(3.1)	(44)

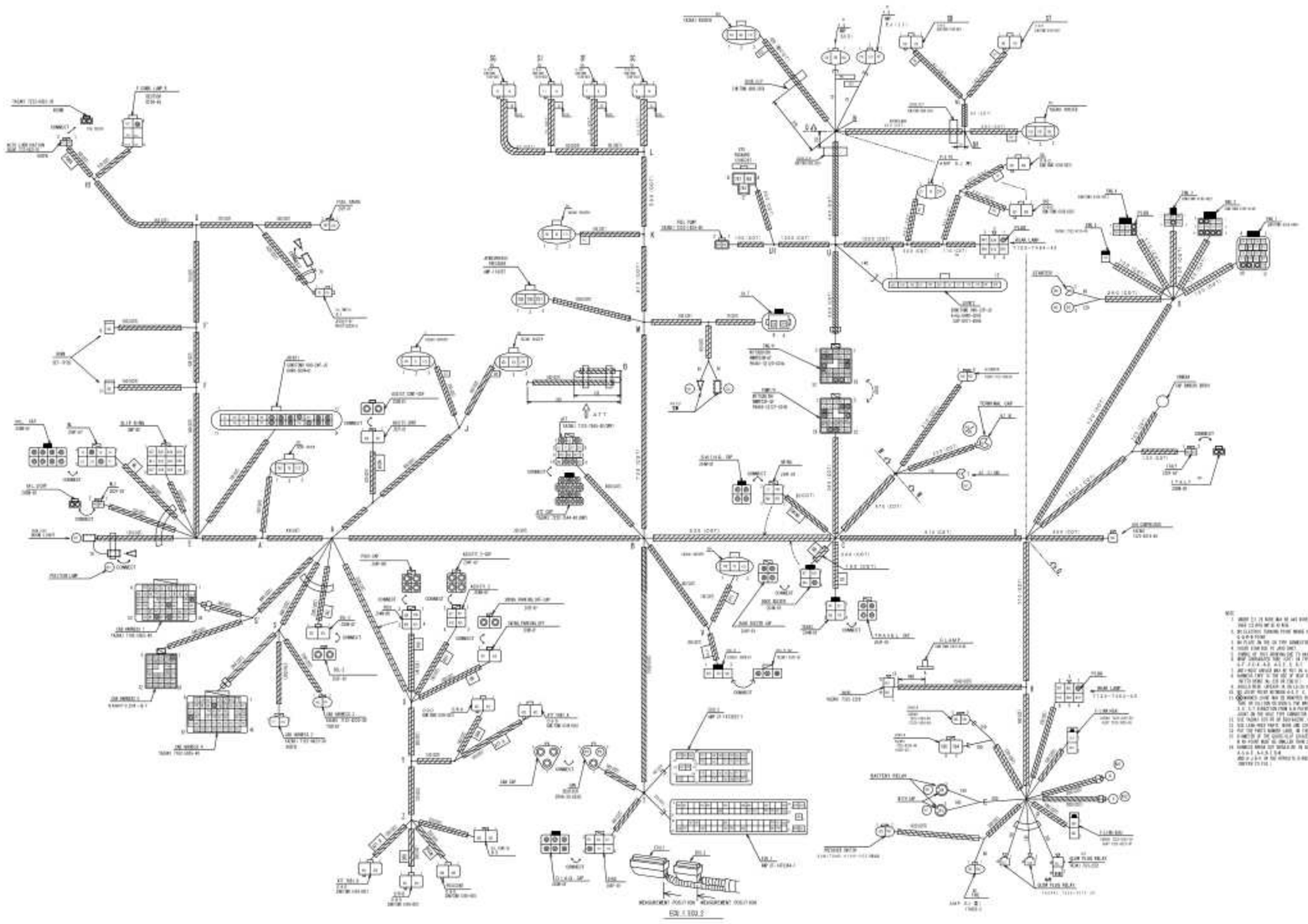
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ZX360W-3 ENGINE HARNESS

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

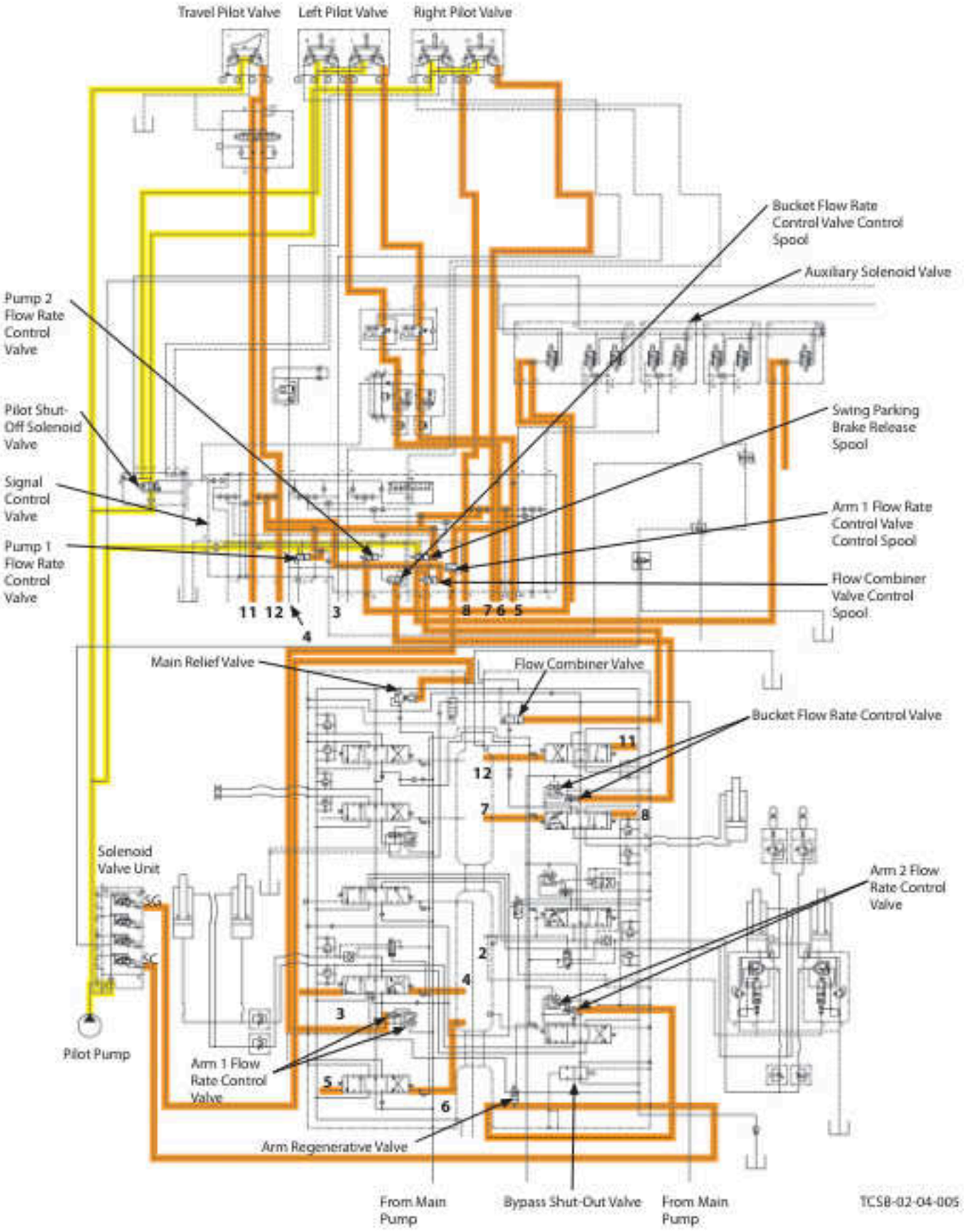






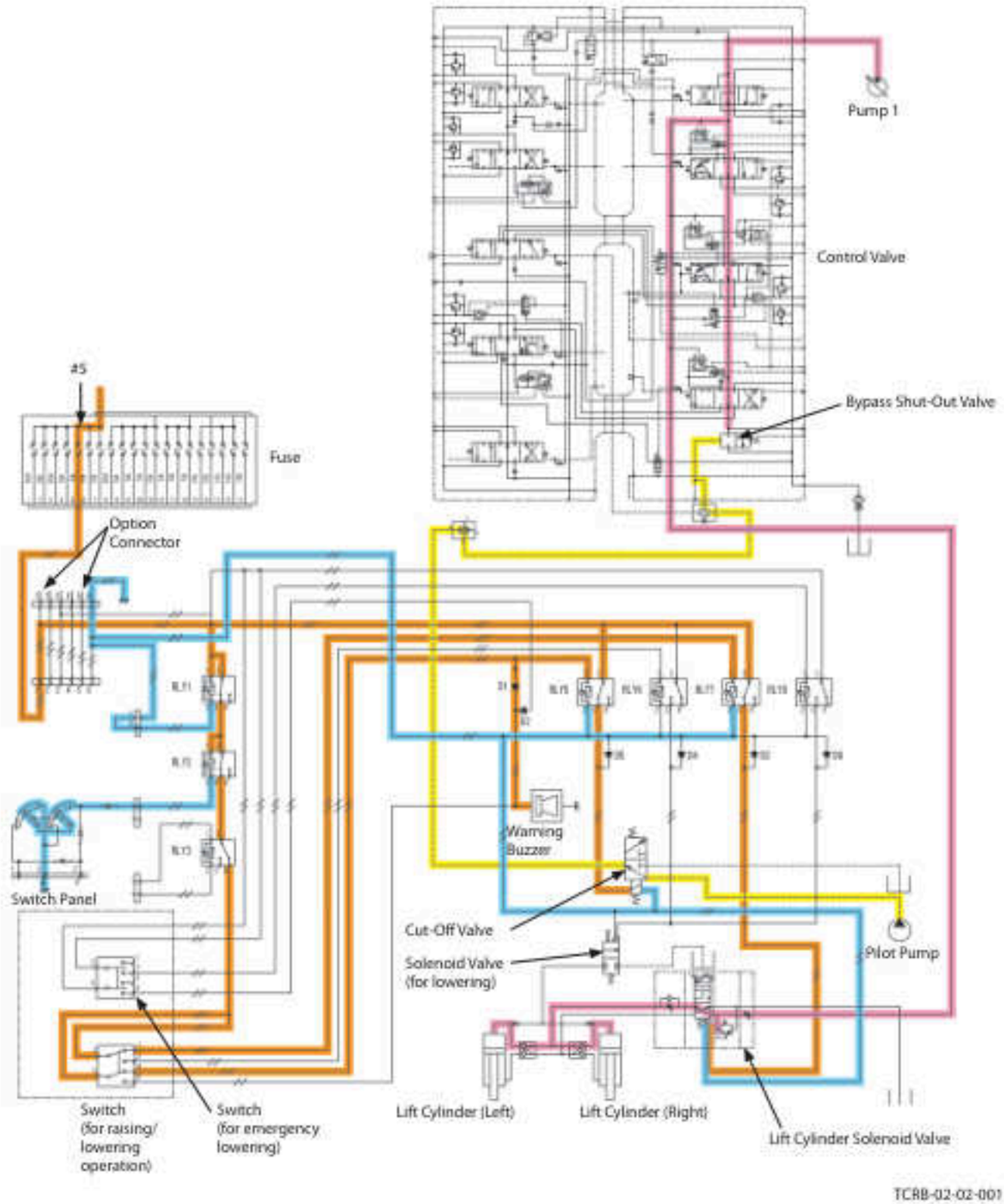


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Cab Raise Control

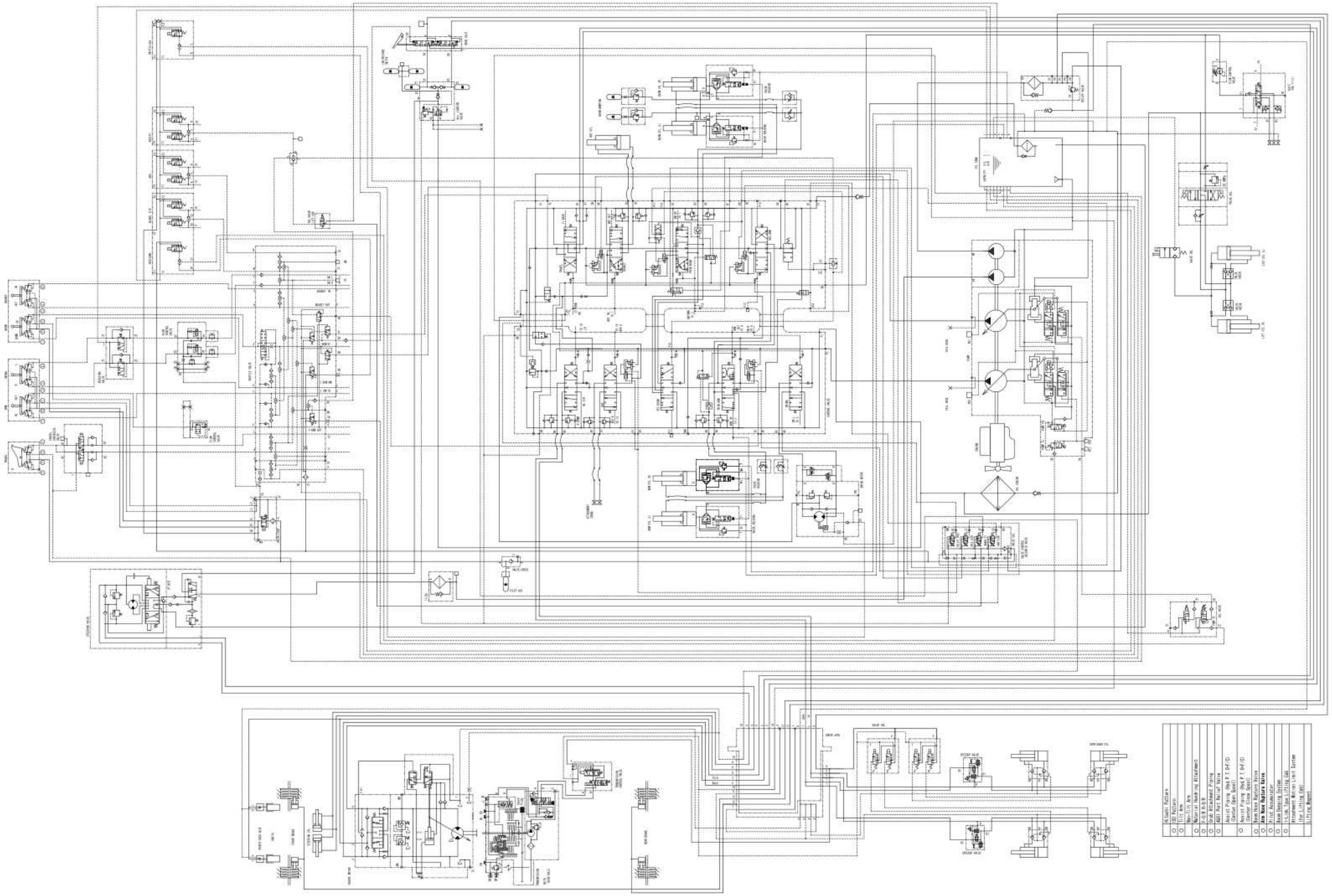


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ZX360W-3 HYDRAULIC CIRCUIT DIAGRAM (Machine with Tilting Type Attachment)

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