Manual No. : KM-CBBE
Vol. No. : TTCBBE-00

Technical Manual

(Troubleshooting)

ZAXIS 160W

Wheeled Excavator

Service Manual (Manual No. KM-CBBE) consists of the following three separate volumes;

Technical Manual (Operational Principle)	: Vol. No. TOCBBE
Technical Manual (Troubleshooting)	: Vol. No. TTCBBE
Workshop Manual	: Vol. No. WCBBE

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SECTION 4

OPERATIONAL PERFORMANCE TEST



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Group 5 Component Test

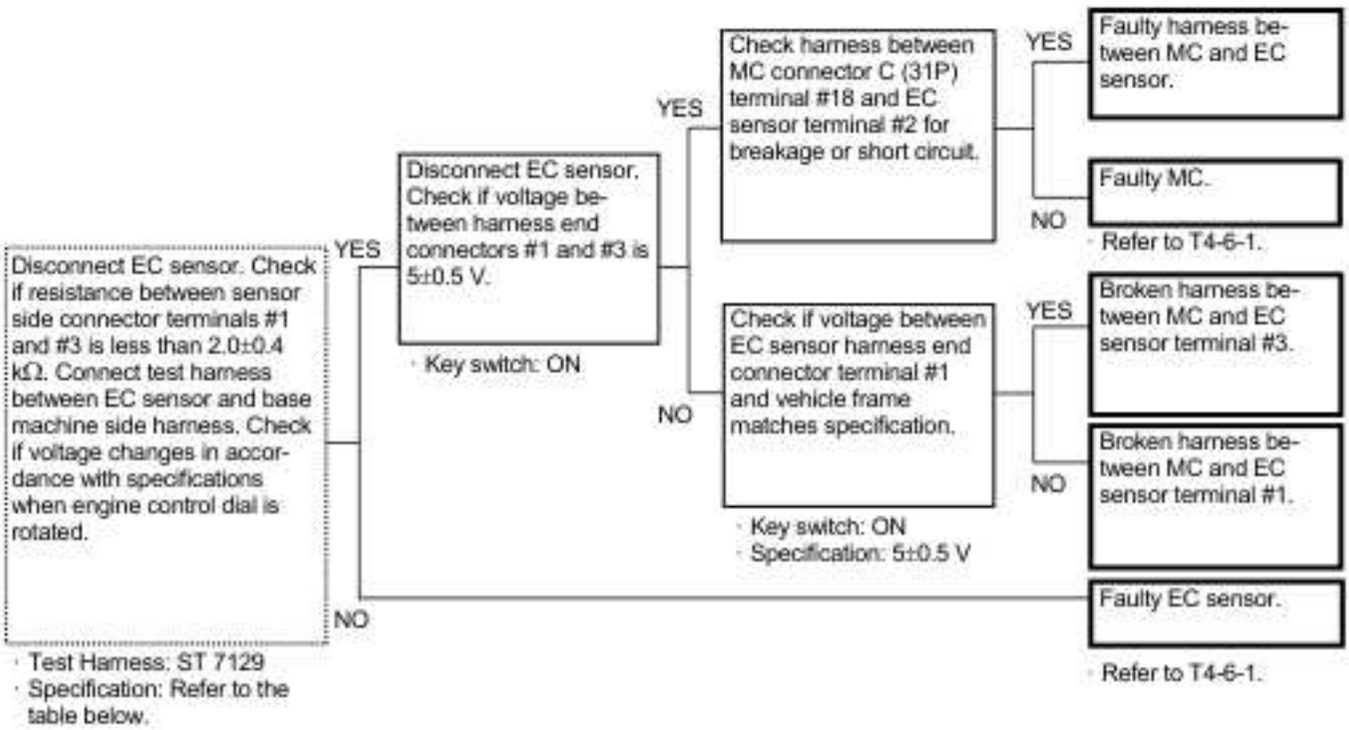
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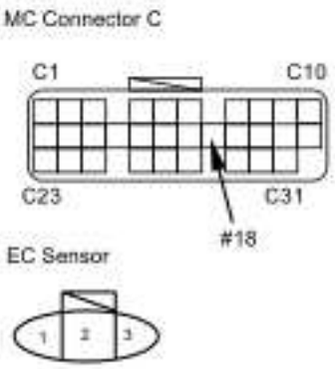
FAULT CODE 06 (ABNORMAL EC SENSOR)



EC Sensor Specification

Slow Idle	2.5 to 2.7 V
Fast Idle (HP mode Switch: OFF)	3.3 to 3.7 V
Fast Idle (HP mode Switch: ON)	Voltage at Fast Idle (HP Mode Switch: OFF) plus 0.2 V or more

Connector (Harness End Connector Viewed from the Open End Side)



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O-2 Air Conditioner Malfunction

The air conditioner has a self-diagnosis function. The self-diagnosis functions to:

1) Display Fault Codes
2) Change Displayed Fault Codes
3) Delete Fault Code
4) End Fault Code Display

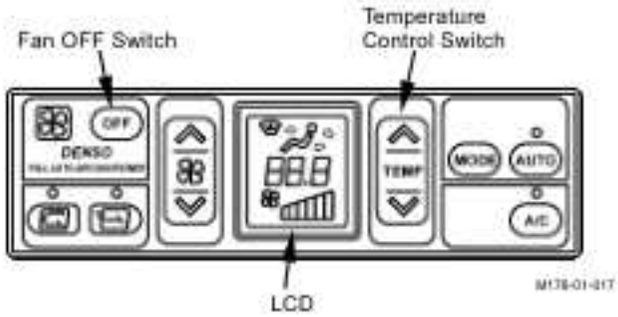
- Display Fault Code

1. Press the fan OFF switch to turn the fan OFF.
2. Press and hold both the upper and lower sides of the temperature control switch on the air conditioner control panel at the same time for more than 3 seconds with the key switch ON.

NOTE: After operation has been performed, the buzzer will sound.

3. If any fault codes are found, the LCD displays the fault codes as [EOO].

NOTE: If more than one fault code is found, the lower number fault code will be displayed first.

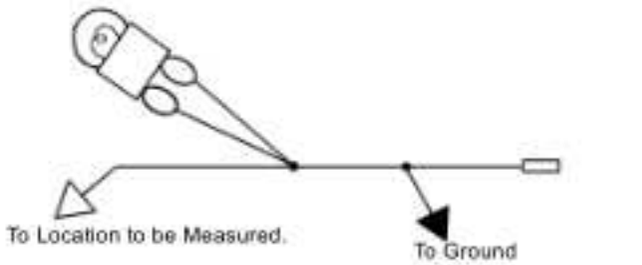


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TEST HARNESS

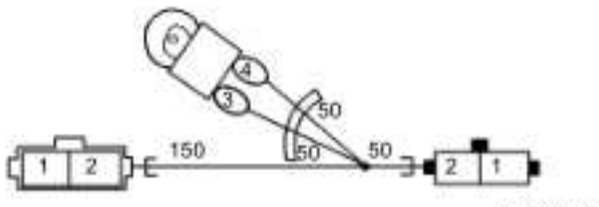
With a test harness installed between connectors, the circuit condition is checked depending on whether the test harness lamp lights or extinguishes during operation.

Parts Number 4283594 (ST 7126)
Use to check a single-line (discontinuity and/or voltage).
During Operation: Lamp is ON.



Parts Number 4283594 (ST 7126)

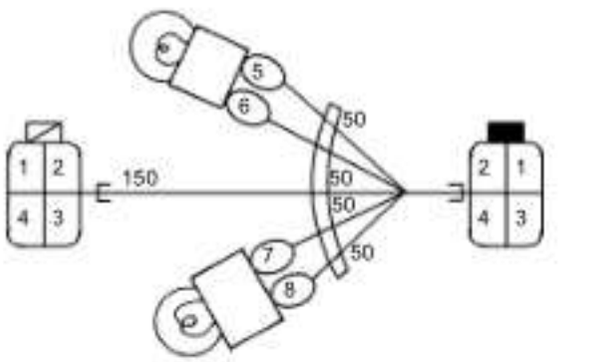
Parts Number (ST 7226)
Use to check the solenoid valve unit circuits.
When the corresponding control lever or switch is operated: Lamp is ON.
(Refer to T5-4-60, 74 and 96.)



Parts Number (ST 7226)

Parts Number 4274589 (ST 7125)
Use to check the EC motor circuit.
(Refer to T5-4-42 and 46.)

- EC Motor Circuit
  When the engine control dial is rotated:
  Both lamps ON: Normal
  Only one lamp ON: Check for continuity of the circuit connected to the lamp OFF.
  Both lamps OFF: Check the harness together with the relay.



Parts Number 4274589 (ST 7125)

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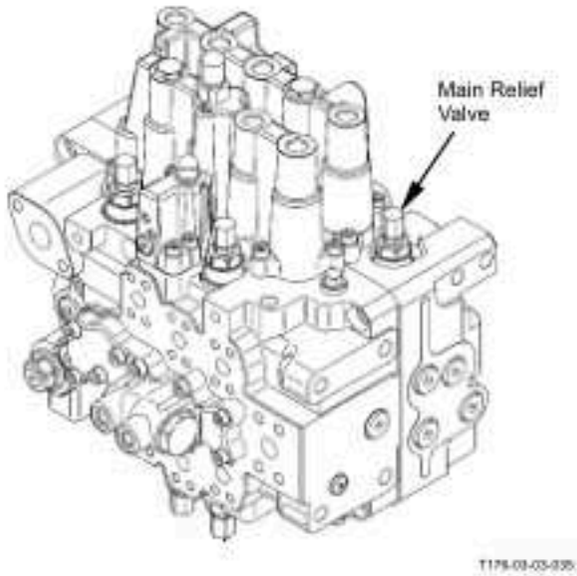
Main Relief Pressure Setting Adjustment Procedure

Adjustment:

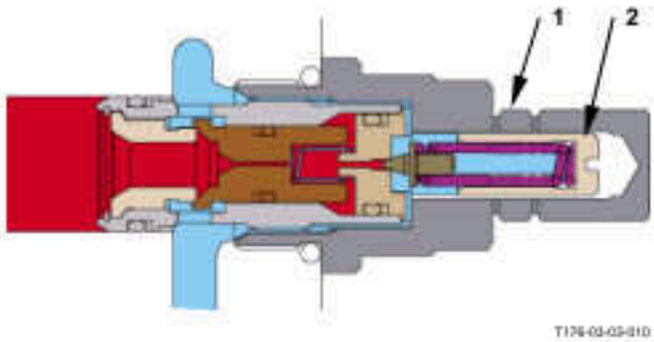
1. Loosen lock nut (1).
   : 17 mm
   : 19.5 N·m (2 kgf·m, 14.5 lbf·ft)
2. Turn adjusting screw (2) to adjust the main relief set pressure referring to the table below.
3. Retighten lock nut (1).
4. Recheck the set pressures.

NOTE: Standard Change in Pressure (Reference)

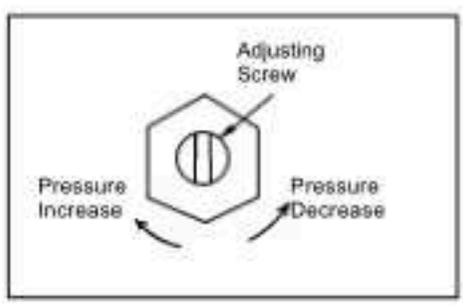
Plug Turns		1/4	1/2	3/4	1
Change in Relief Pressure	MPa	2.79	5.59	8.36	11.2
	(kgf/cm²)	(28.5)	(57)	(85.2)	(114)
	(psi)	(405)	(811)	(1212)	(1620)



T178-03-03-035



T178-03-03-010

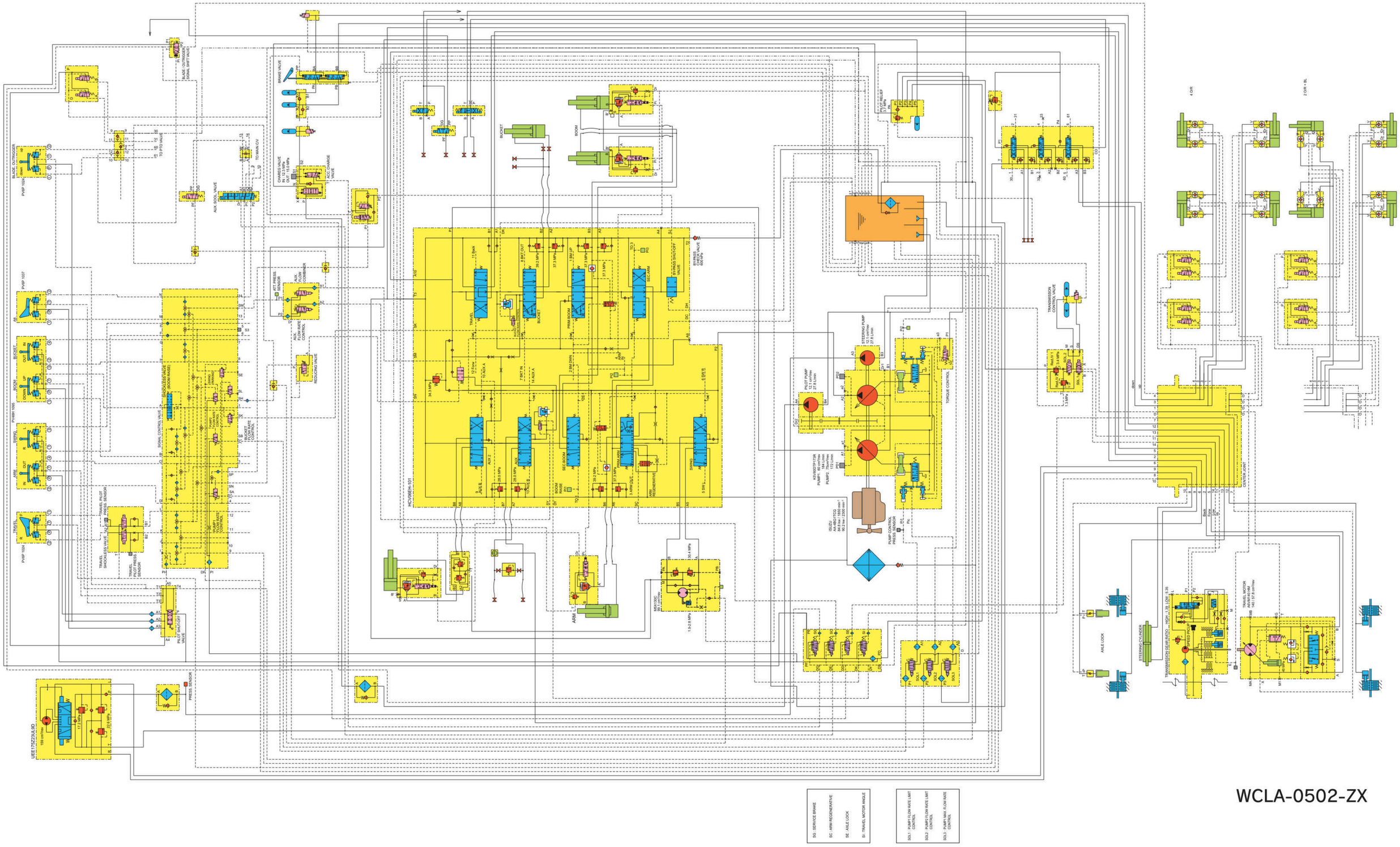


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ZAXIS 160W HYDRAULIC CIRCUIT DIAGRAM (FULL OPTION)



WCLA-0502-ZX

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