PART NO. TT18F-E-01

HITACHI

Technical Manual

Troubleshooting

EX

1200-5D

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO18F-E
Technical Manual (Troubleshooting)	: Vol. No.TT18F-E
Workshop Manual	: Vol. No.W18F-E

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SECTION 4

OPERATIONAL PERFORMANCE TEST



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OPERATIONAL PERFORMANCE STANDARD

The standard performance values are listen in the table below. Refer to the Groups 3 to 5 for performance test procedures. Values indicated in parentheses are reference values. The fuel lever shall be placed in the fast idle position and the hydraulic oil temperature is to be maintained at 50 ± 5 °C (122 ± 9 °F) unless otherwise specified.

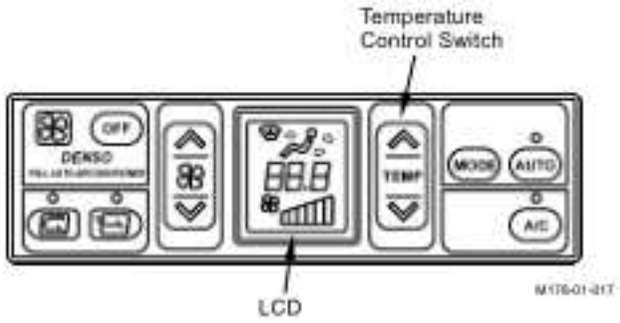
Performance Test		EX1200-5D (Standard Performance)	Remarks
ENGINE SPEED	min^{-1}		Refer to T4-3-1
Fast Idle Speed		1850±50	
Slow Idle Speed		850±50	
Auto-Idle Speed		1400±100	
Quick Idle Speed		850±50	
TRAVEL SPEED	sec /20 m		Refer to T4-4-1
Fast Speed Mode		21.3±1.6	
Slow Speed Mode		30.5±2.0	
TRACK REVOLUTION SPEED	sec /3 rev		Refer to T4-4-2
Fast Speed Mode		42.0±4.0	
Slow Speed mode		61.0±4.0	
MISTRACK (in both fast and slow mode)	mm /20 m	200 or less	Refer to T4-4-3
TRAVEL MOTOR DRIFT	mm /5 min	0	Refer to T4-4-4
SWING SPEED	sec /3 rev	30.0±2.0	Refer to T4-4-5
SWING FUNCTION DRIFT	mm /180°		Refer to T4-4-6
(Backhoe)		1100 or less	
(Loading Shovel)		—	
SWING MOTOR DRIFT	mm /5 min	0	Refer to T4-4-8
MAXIMUM SWINGABLE SLANT ANGLE	deg		Refer to T4-4-9
(Backhoe)		12 or possibly more	
(Loading Shovel)		10 or possibly more	
SWING BEARING PLAY	mm	2.0 or less	Allowable Limit: 6.3, Refer to T4-4-10

NOTE: BH: Backhoe: With 5.0 m^3 (PCSA heaped) Bucket, 3.4 m Arm, 9.1 Boom
LD: Loading Shovel: With 6.5 m^3 Bucket

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- Change Displayed Fault Code
  1. When displaying more than one fault code, press either the upper or bottom side of the temperature control switch key. The following fault code is displayed.

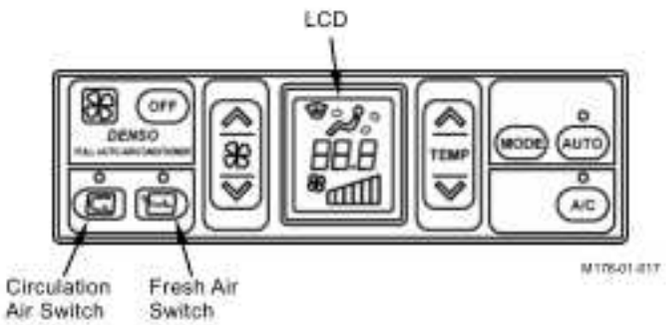
NOTE: Each time the displayed fault code is changed, the buzzer sounds. In case only one fault code exists, the displayed fault code remains unchanged.



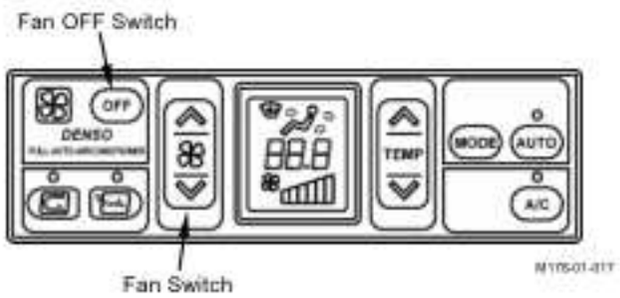
- Delete Fault Code
  1. Press and hold both the circulation air switch and the fresh air switch for more than 3 seconds at the same time to delete the fault code.

NOTE: After the fault code is deleted, the buzzer will sound.

  2. After the fault code has been deleted, the LCD displays [E00].



- End Fault Code Display
  1. Press the fan OFF switch, or press the upper side of the fan switch key. The self-diagnostic mode is complete.

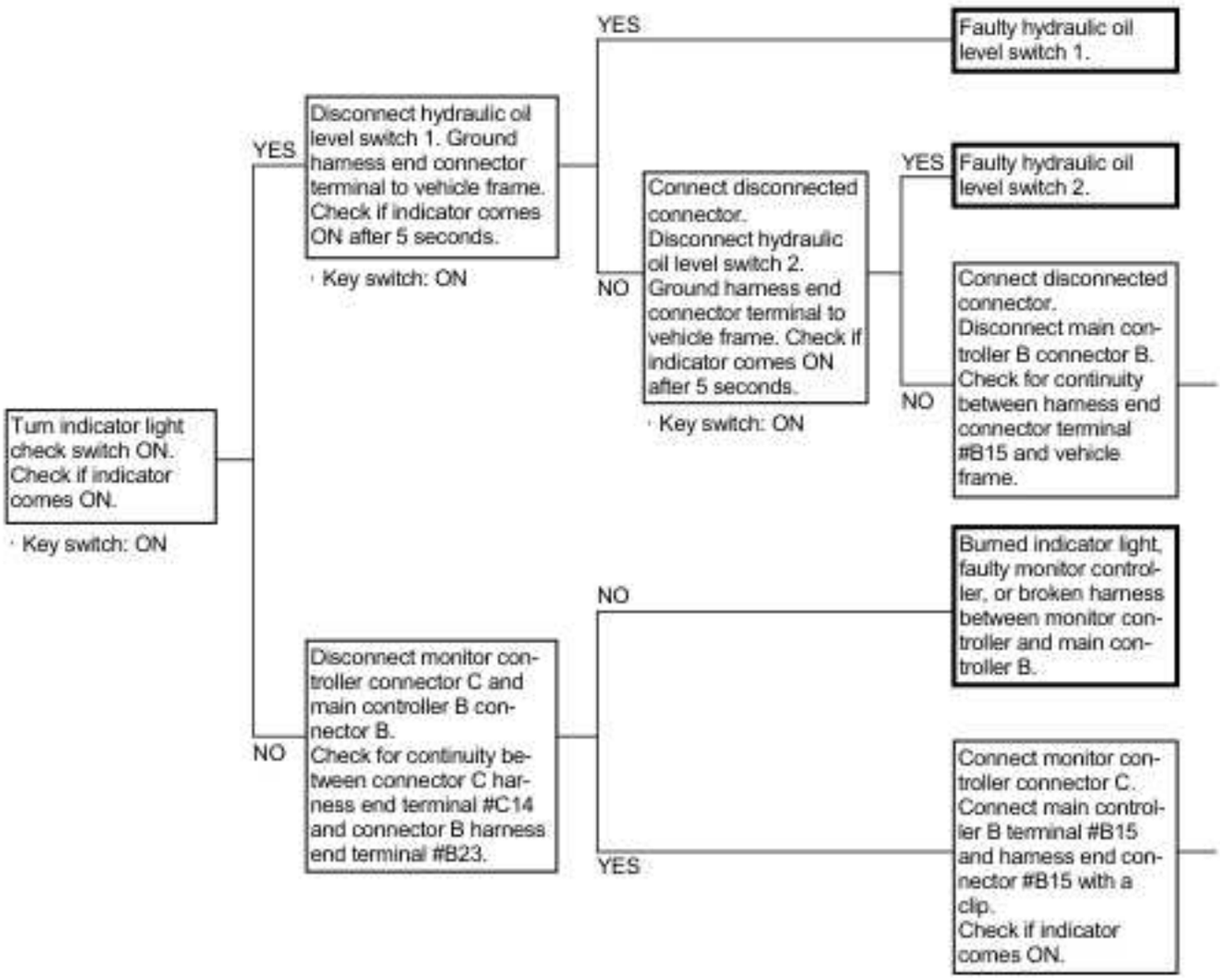


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MALFUNCTION OF HYDRAULIC OIL LEVEL INDICATOR

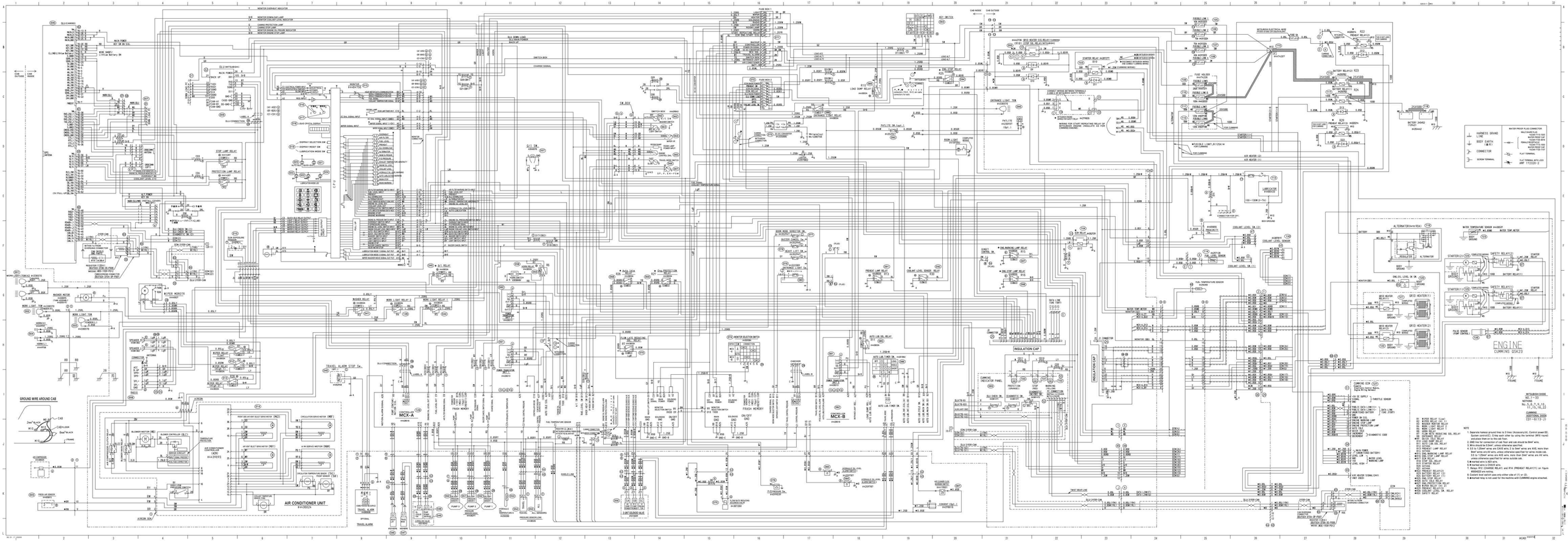
- Check that all other indicators work correctly.
- Check that machine is parked on level surface.
- Check for loose harness connections beforehand.

Indicator Does Not Come ON Even If Hydraulic Oil Level Is Lowered Below Lower Limit



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EX1200-5c ELECTRICAL CIRCUIT DIAGRAM (CUMMINS ENGINE SPECIFICATION)



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