PART NO. TT18M-E-00

HITACHI

Technical Manual

Troubleshooting

EX

3600-6

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO18M-E
Technical Manual (Troubleshooting)	: Vol. No.TT18M-E
Workshop Manual	: Vol. No.W18M-E

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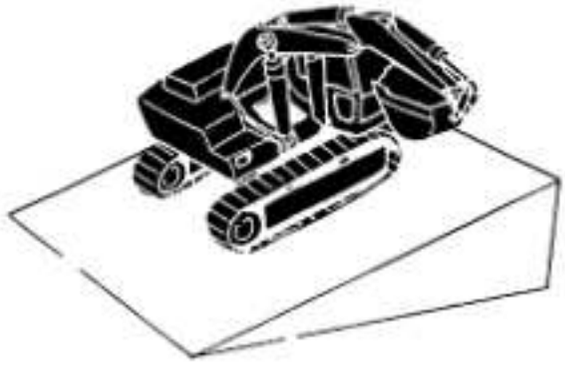
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SWING MOTOR LEAKAGE

Summary:

Park the machine on the specified slope with the upperstructure swing 90° to the slope.

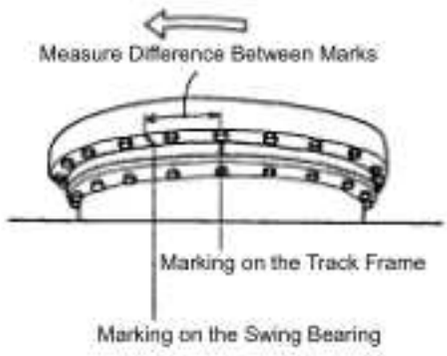
The upperstructure drift caused by the uppersuructure weight is measured at the outer diameter of the swing bearing to check the swing parking brake performance (the swing device is equpped with a mechanical type swing parking brake).



T142-05-03-004

Preparation:

1. Check the lubrication of the swing gear and swing bearing.
2. Load bucket fully. In lieu of loading the bucket, weight (W) of the following specification can be used.
   Backhoe: W=30900 kg (68000 lb)
   Loading Shovel: W=30000 kg (66000 lb)
3. Position the front attachment as described in the following.
   Loading shovel: With the arm cylinder fully extended and the bucket cylinders fully extended, position the arm top pin height flush with the boom foot pin height.
   Backhoe: With the arm cylinders fully retracted and the bucket cylinders fully extended, position the arm top pin height flush with the boom foot pin height.
4. Park the machine on a smooth slope with a gradient of 26.8 % (15°).
5. Swing the upperstructure to position it 90° to the slope. Make aligning marks on the swing bearing periphery and track frame using tape, as illustrated.
6. Maintain the hydraulic oil temperature at 50±5 °C (122±9 °F).



T105-06-03-010

Measurement:

1. Stop the engine. After five minutes, measure the difference between the marks along the swing bearing periphery and the track frame.
2. Perform the measurement in both right and left swing directions.
3. Perform the measurement three times in each direction and calculate the average values.

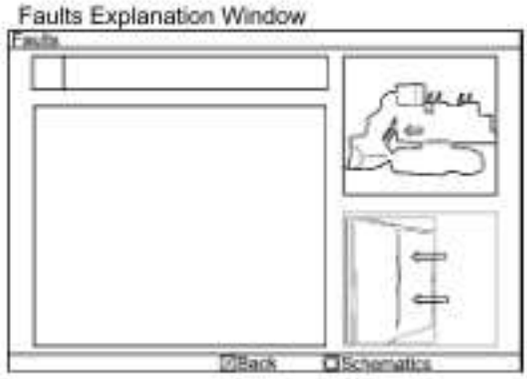
Evaluation:

Refer to T4-2 Operational Performance Standard.

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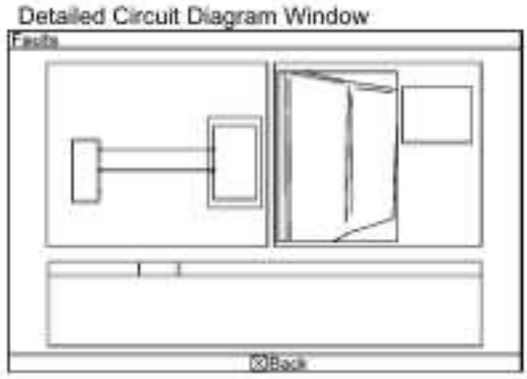
3. To display the Detailed Circuit Diagram Window, press the ○ key.
   To return to the Fault Explanation Window, press the × key again.

Faults Explanation Window



T16D-05-01-027

Detailed Circuit Diagram Window



T16D-05-01-027

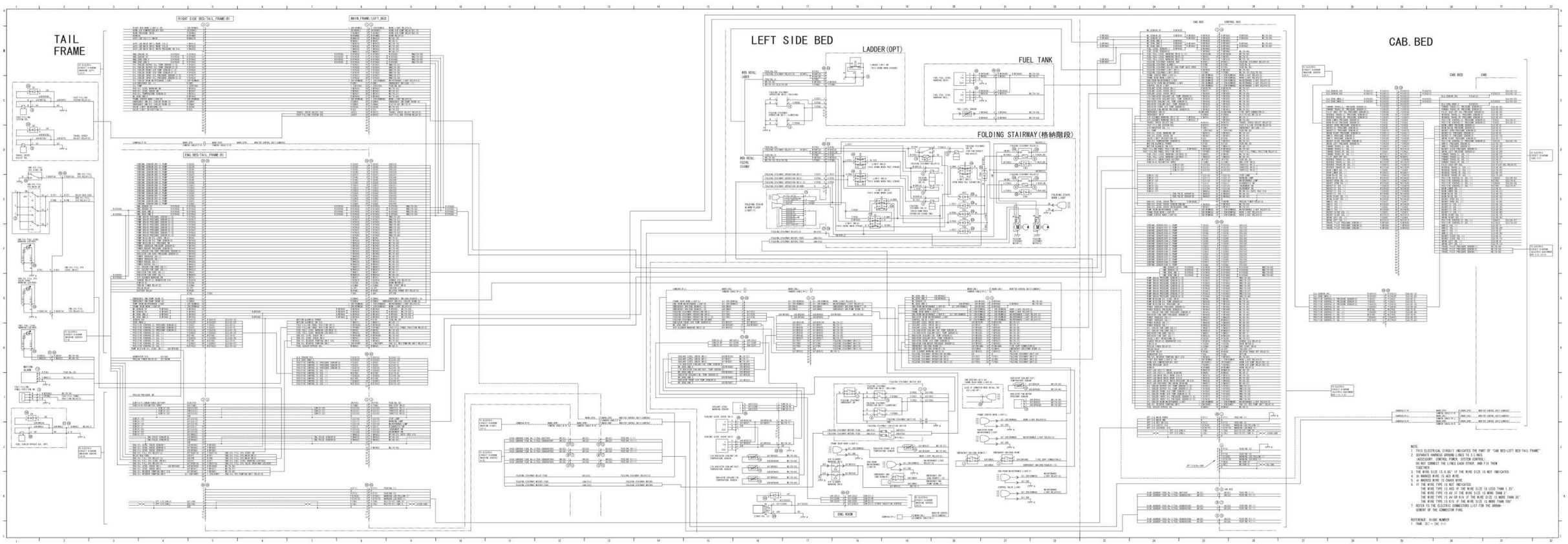
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Instruction 1	Instruction 2
Shut the engine off immediately.	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
Shut the engine off immediately.	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
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	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
Check for fuel restriction and high 1st stage filter restriction.	If no restriction is found, call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
Inspect the following items: - Stage 2 fuel filter restriction - Fuel quality If there are restrictions, change all filters.	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
Inspect the following items: - High stage 1 fuel filter restriction - High fuel inlet restriction - Fuel quality If there are restrictions, change all filters.	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms
Look for any wiring damages.	If there are no damages or mis-connection, call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
Look for any wiring damages.	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
	Call your local Cummins dealer along with all existing Cummins fault codes and any symptoms.
Wiring problem should be fixed. Monitor coolant temperature.	

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EX3600-6 ELECTRICAL CIRCUIT DIAGRAM (MACHINE LEFT)

Authorized Hitachi Dealer Use Only
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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