PART NO.

HITACHI

Technical Manual

Troubleshooting

EX

EX5500-5

Hydraulic Excavator

Service Manual consists of the following separate Part No.
Technical Manual (Operational Principle)
Technical Manual (Troubleshooting)
Workshop Manual

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SECTION 5
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CYLINDER DRIFT

Summary:

1. Evaluate the oil leaks in the control valve, boom, arm, and bucket cylinders by measuring cylinder (dig function) drift whlie holding the bucket with the specified load.
2. When checking soon after cylinders are replaced, move each cylinder full stroke to purge air trapped in the cylinders.

Preparation:

1. Load bucket fully. In lieu of loading the bucket, weight (W) of the following specification can be used.
   W = 39000 kg (86000 lb): Backhoe
   40500 kg (89300 lb): Loading Shovel
2. Position the front attachment as described in the following.
   Backhoe:
   Retract the arm cylinder so that the rod is extended approx. 50 mm (2 in) from the fully retracted position. Extend the bucket cylinder so that the rod is retracted approx. 50 mm (2 in) from the fully extended position. Position the arm top pin height flush with the boom foot pin height.
   Loading shovel:
   Extend the arm and the bucket cylinders so that the rods are retracted approx. 50 mm (2 in) from the fully extended position. Position the arm top pin height flush with the boom foot pin height.
3. Maintain the hydraulic oil temperature at 50±5 °C (122±9 °F).



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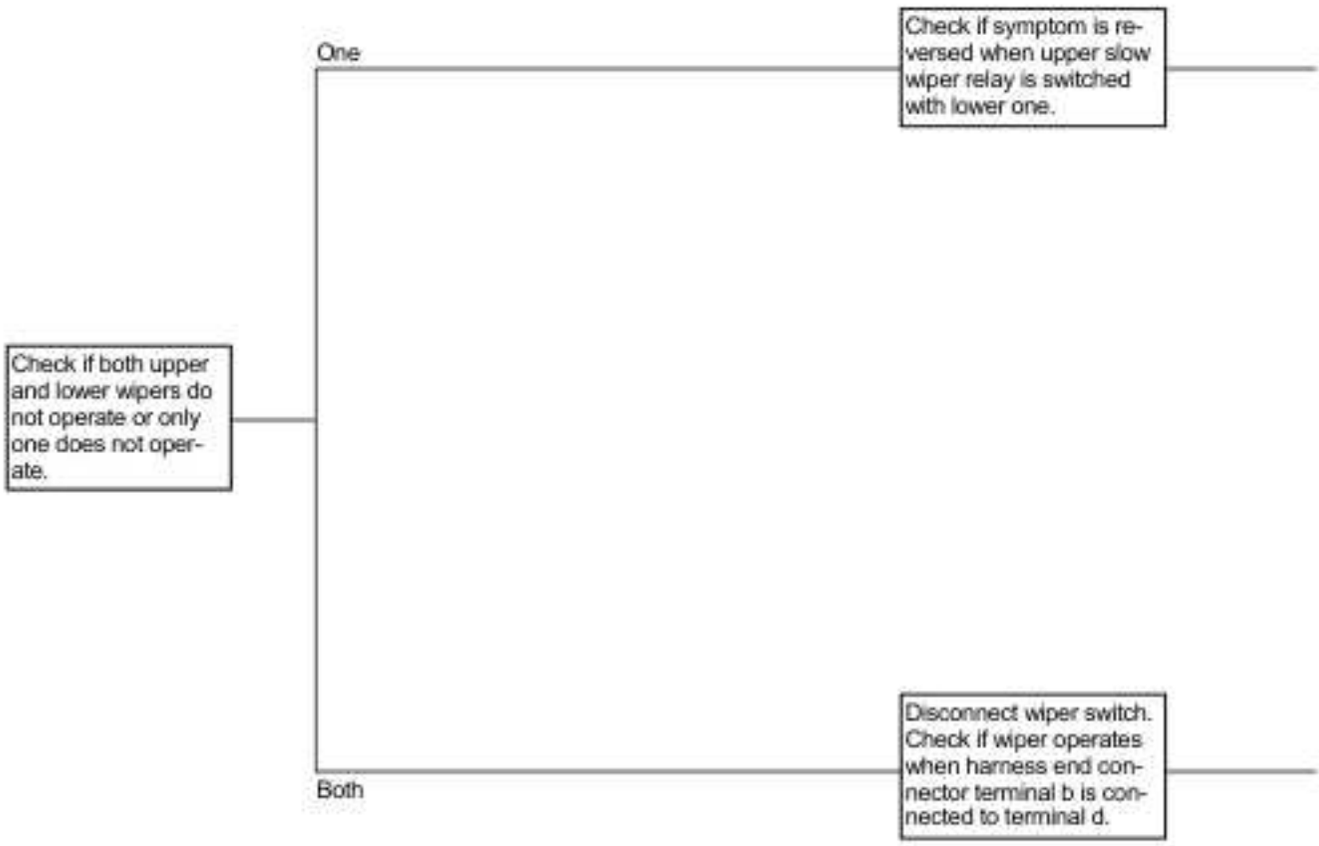


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Wiper does not operate at slow speed.

- Check for loose harness connections beforehand.

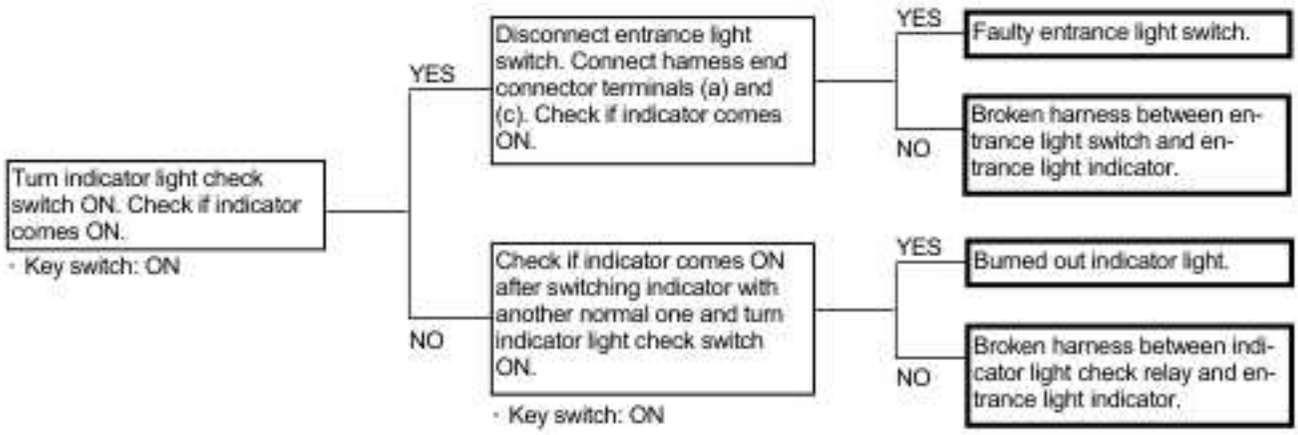


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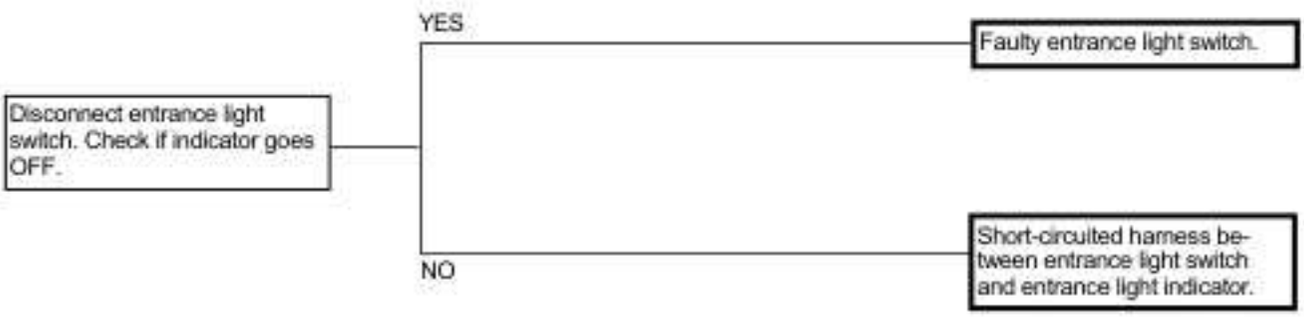
MALFUNCTION OF ENTRANCE LIGHT INDICATOR

- Other indicators light correctly.
- Check for loose harness connections beforehand.

Indicator does not come ON even if entrance light switch is turned ON.

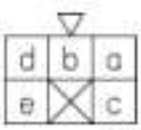


Indicator comes ON even if entrance light switch is turned OFF.



Connector Terminal Layout

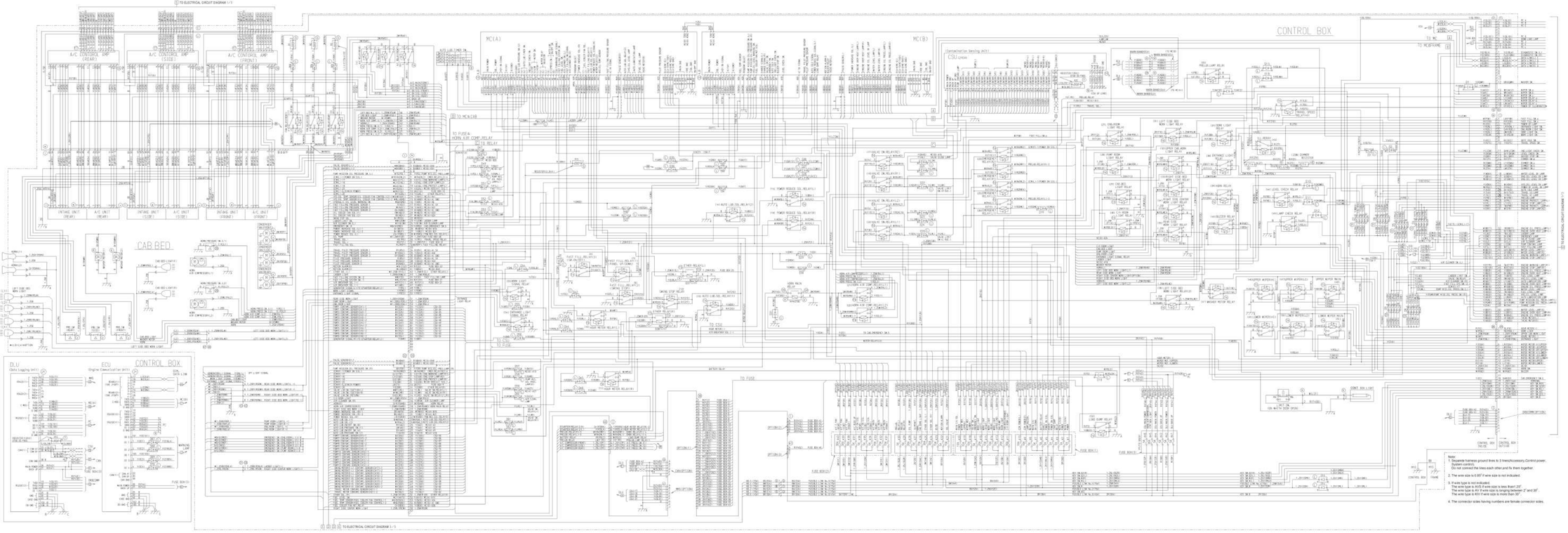
Entrance Light Switch



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EX5500-5 ELECTRICAL CIRCUIT DIAGRAM 2/3



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