

Electrical power supply to the ECM

Test 2

System operation

This procedure tests whether correct voltage is supplied to the ECM by the equipment wiring. Use this procedure if a 168-02 Low or Intermittent Battery Power To ECM diagnostic codes is logged, or anytime you suspect the ECM is not receiving battery supply voltage.

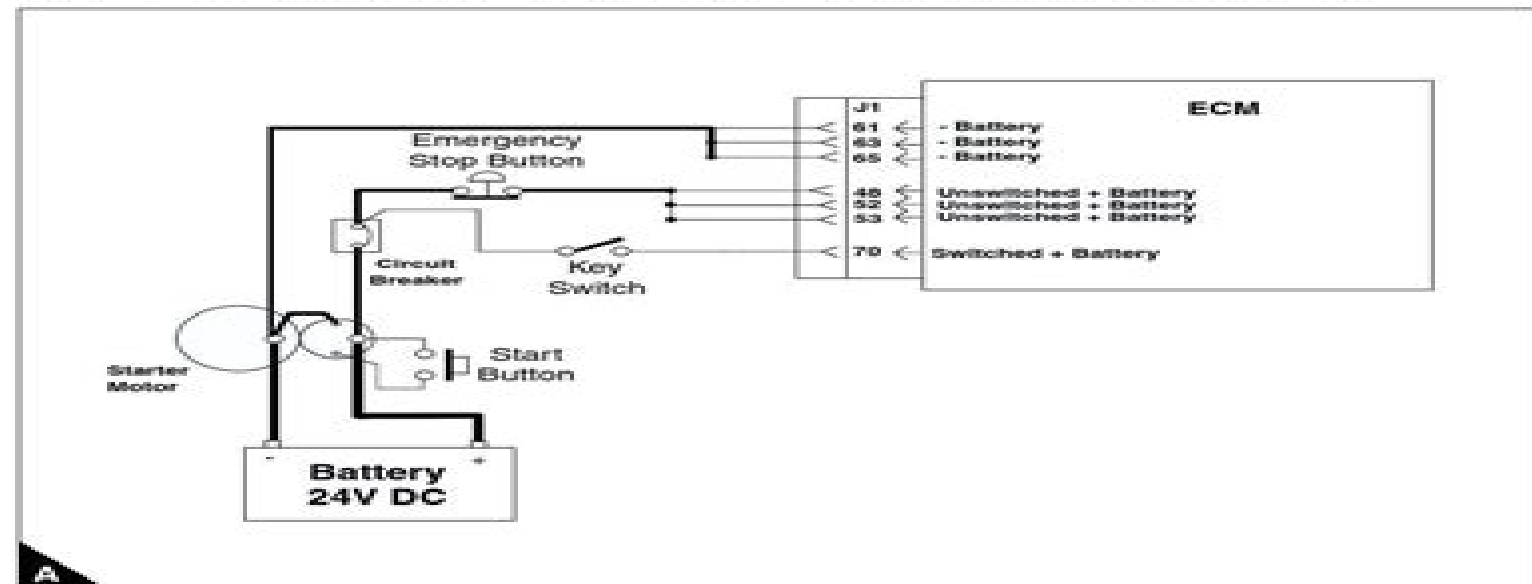
The ECM input at connector P1 terminal-70 (SWITCHED +BATTERY) receives battery voltage from the engine key switch supplied by the OEM. When the ECM detects battery voltage at this input, the ECM will power up.

When battery voltage is removed from this input, the ECM will power down after the engine has safely shut down.

The cause of an intermittent power supply to the ECM can occur on either the positive (UNSWITCHED +BATTERY) or negative (-BATTERY) side. Both sides are routed from the ECM to the battery. The three Unswitched +Battery connections should be routed through a dedicated protection circuit.

ECM Electrical power supply schematic

Note: Refer to the wiring diagram for full connection details. This wiring is supplied by the OEM.



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