

# SERVICE BULLETIN

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## PRECAUTIONS FOR ELECTRONIC CONCENTRATED ENGINE CONTROL SYSTEM (ECCS) TESTING

APPLIED VEHICLE(S): All

### SERVICE INFORMATION

**Always** use caution when performing electrical checks on the electrical harness or engine control module (ECM) to avoid damaging the ECM. **NEVER** apply direct battery voltage to any terminal of the ECM by either connecting a 12 volt battery positive (+) terminal, or by jumping (short circuiting) any actuator that is connected to the ECM. Below is a partial list of typical actuators:

- Relays (fuel pump, A/C, cooling fan, EFI)
- Solenoid valves (EGR control, purge control, vent control, vacuum cut valve bypass or intake valve timing control)
- Fuel injectors
- IACV-AAC valve or IACV-FICD valve.

**NOTE:** Applying battery voltage to the ECM without sufficient resistive load (normally supplied by an actuator) will cause an over-current condition to the ECM transistor resulting in instant, permanent damage to the ECM.

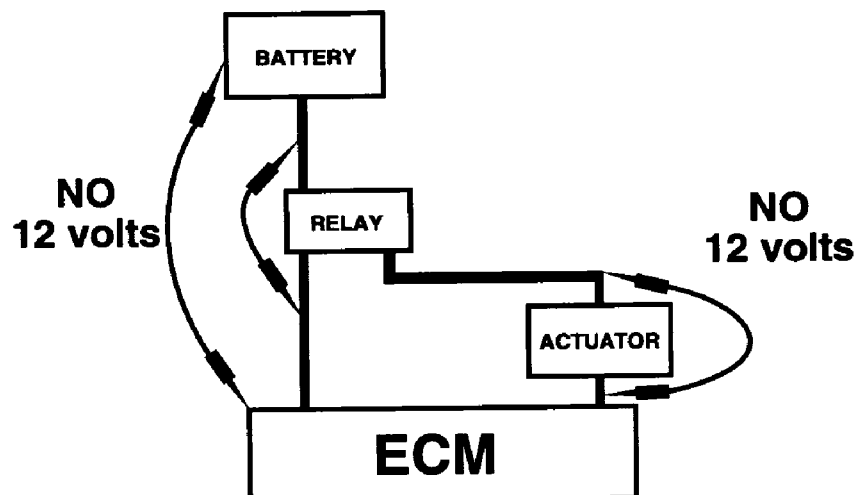


Figure 1

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