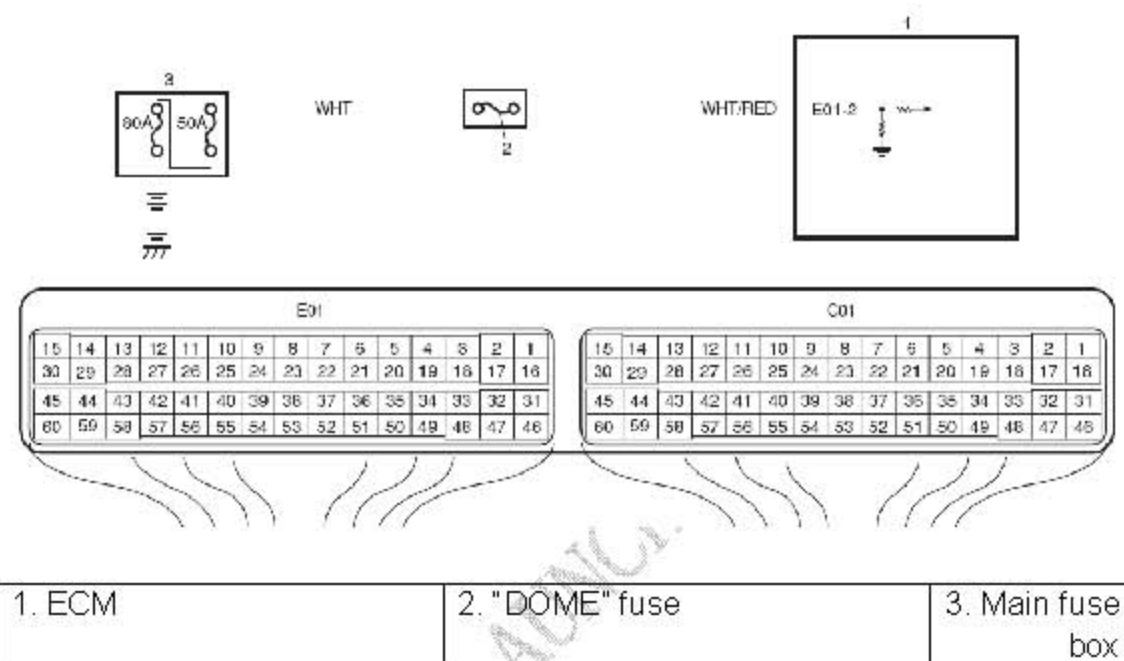


# P1510: ECM Back-Up Power Supply Malfunction

## Wiring Diagram



## Circuit Description

Battery voltage is supplied so that DTC memory, values for engine control learned by ECM, etc. are kept in ECM even when the ignition switch is turned OFF.

## DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Back-up power circuit voltage is less than specified value for 5 seconds while engine is running. (1 driving cycle detection logic)	Battery voltage supply circuit

## DTC Confirmation Procedure

- 1) Connect scan tool to DLC with ignition switch turned OFF.
- 2) Turn ON ignition switch and clear DTC using scan tool and run engine at idle speed for 1 min.

3) Check DTC and pending DTC.

## DTC Troubleshooting

Step	Action	Yes	No
1	Was "Engine and Emission Control System Check" performed?	Go to Step 2.	Go to "Engine and Emission Control System Check".
2	Battery voltage supply circuit check 1) Turn OFF ignition switch.  2) Remove ECM from its bracket with ECM connectors connected.  3) With engine running, measure voltage between "E01-2" terminal of ECM connector and engine ground. Is voltage 10 – 14 V?	Poor "E01-2" connection or intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00".  If wire and connections are OK, substitute a known-good ECM and recheck.	"DOME" fuse blown, "WHT" or "WHT/RED" wire is circuit open or short circuit.