

Technical Tip

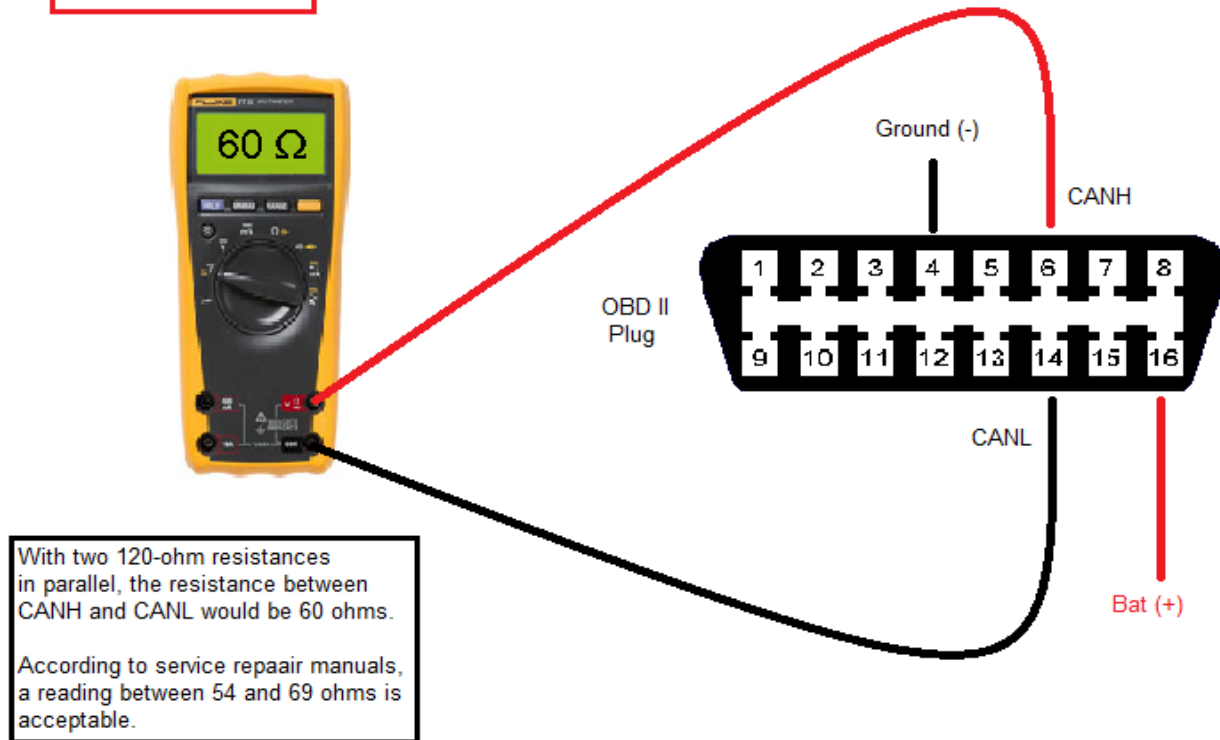
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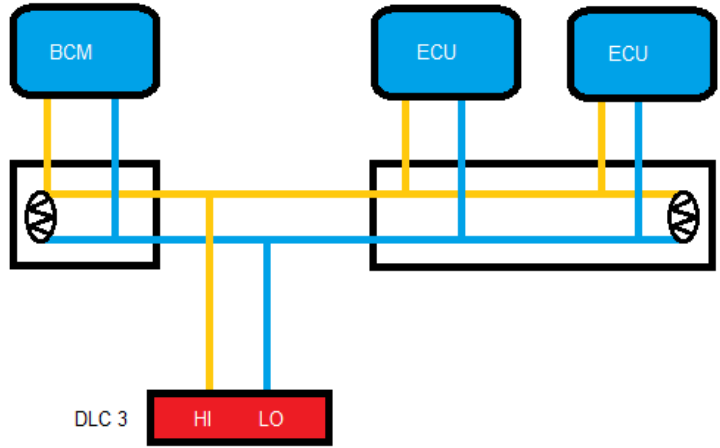
CAN Resistance Testing

Resistance tests can verify the integrity of a CAN multiplex network, or determine if there is an open or short in the circuit. The chart below lists the resistance measurements you would find for each test, with the battery disconnected, under normal and abnormal conditions, and illustrates how each test works.

Hint: CAN bus #1 is the only CAN bus connected to DLC3. To use this test on any other CAN bus on the vehicle, back probe an appropriate connector or junction block on that CAN bus.



With two 120-ohm resistances in parallel, the resistance between CANH and CANL would be 60 ohms. According to service repair manuals, a reading between 54 and 69 ohms is acceptable.



Test Points	Circuit Condition			
	Normal	Open	Short to Ground	Short to B+
CANH to CANL	60Ω	120Ω	60Ω	60Ω
CANH to BAT	OL	OL	??Ω	0.3Ω
CANL to BAT	OL	OL	??Ω	60Ω
GROUND to CANH	OL	OL	60Ω	??Ω
GROUND to CANL	OL	OL	0.4Ω	??Ω