

AUDI P1649: DATA BUS POWERTRAIN MISSING MESSAGE FROM ABS CONTROL MODULE

OVERVIEW

Severity	:	<div><div>High</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$100-\$300
Can I Still Drive?	:	Yes (Short-term only)

What Does The Audi P1649 Code Mean?

Ignition off, the ECU is missing general Data BUS information from the central electrical control. The Engine Control Module (ECM) communicates with all Data-Bus-capable control modules via a CAN Data-Bus. These Data-Bus-capable control modules are connected via two data bus wires which are twisted together (CAN_High and CAN_Low), and exchange information (messages).

Missing information on the Data-Bus is recognized as a malfunction and stored. Trouble-free operation of the CAN-bus requires that it have a terminal resistance. This central terminal resistor is located in the Engine Control Module (ECM).

What Are The Potential Causes Of The Audi P1649 Code?

Below are some potential causes of this DTC:

- Ground between engine and chassis may be broken
- Throttle position sensor may have failed
- Accelerator Pedal Position Sensor 2 has failed
- Throttle position sensor wiring may have shorted
- Faulty voltage supply
- Check the Terminal resistance for CAN-bus
- Data-Bus wires have short

- Data-Bus components are malfunctioning
- ECM has failed

Reference Sources

[Audi A4 Avant 95-01 Service Repair Manual](#), page 62.