

AUDI P1542: THROTTLE ACTUATION POTENTIOMETER RANGE/PERFORMANCE

OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Intermediate
Repair Cost	:	\$100-\$1000
Can I Still Drive?	:	No

What Does The Audi P1542 Code Mean?

Engine started, battery voltage must be at least 11.5v, all electrical components must be off, parking brake must be engaged (to keep daytime driving lights off), automatic transmission selector must be in park, the exhaust system must be properly sealed between the catalytic converter and the cylinder head, coolant temperature must be at least 80 degrees Celsius, and the ground between the engine and the chassis must be well connected. The signal from the Throttle Position Valve Module to the ECM detected was erratic, non existent or unreliable.

Note:

- If the complete throttle valve control module is current-less (e. g. connector disconnected) the throttle valve moves into a particular, specified mechanical position, which signals an increased idle speed with an engine at operating temperature. If only the Throttle Position (TP) actuator –V60- is current-less, the throttle valve also moves into the specified mechanical position (emergency running gap), however, since Closed Throttle Position (CTP) switch –F60- can still be recognized, an “almost normal idle RPM” is reached via the respective ignition angle retardation. If the Engine Control Module (ECM) detects a malfunction at Throttle Position (TP) sensor –G69-, Throttle Position (TP) actuator –V60- is switched current-less by the Engine Control Module (ECM) and the throttle valve moves into the specified mechanical position (emergency running gap) again.

- Terminal assignment at throttle control module is different in vehicles with and without cruise control.

What Are The Potential Causes Of The Audi P1542 Code?

- Throttle valve control module is faulty
- Throttle valve is damaged or dirty
- Throttle valve must be in closed throttle position
- Accelerator pedal is out of adjustment (AEG engines only)
- Throttle position actuator is shorting to ground or power

Reference Sources

[Audi A4 Avant 95-01 Service Repair Manual](#), page 54.