

CADILLAC P16F4: CONTROL MODULE TRANSMISSION RANGE CONTROL PERFORMANCE

OVERVIEW

Severity	:	<div><div>High</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$200-\$350
Can I Still Drive?	:	Yes (Short-term only)

What Does The Cadillac P16F4 Code Mean?

This code indicates that:

- The transmission direction, indicated by both the internal mode range and direction switch circuits, are valid but do not match.
- One internal mode range direction switch circuit has failed.
- The hybrid powertrain control module calculates a transmission direction base upon the remaining internal mode range direction circuits.
- The calculated hybrid powertrain control module transmission direction does not match the direction indicated by the internal mode range switch circuits.
- One internal mode range direction switch circuit has failed.
- The hybrid powertrain control module calculates a transmission direction based upon the remaining internal mode range direction circuits.
- The internal mode range switch indicated a transitional position.
- One internal mode range direction switch circuit has failed.
- The hybrid powertrain control module calculates a transmission direction based upon the remaining internal mode range direction circuits.
- The TCM has indicated at least one internal mode range switch circuit has failed.
- More than one internal mode range direction circuit has failed and the hybrid powertrain control module cannot calculate a transmission direction.

- The internal mode range switch indicates a transitional position.
- More than one internal mode range direction circuit has failed and the hybrid powertrain control module cannot calculate a transmission direction.
- The TCM has indicated at least one internal mode range switch circuit has failed.

Conditions for setting the DTC: The ignition is ON. Ignition voltage is at least 8 V and no more than 18 V.

Reference Sources

GM, 2016, [Service Bulletin](#) - Unable to Perform Transmission Range Control Module Range Motor Position Learn.