

Charging System - 2.7L EcoBoost (238kW/324PS)/3.5L EcoBoost (272kW/370PS)

Inspection and Verification

1. Verify the customer concern by operating the charging system.
2. Before diagnosing or repairing the charging system inspect the following items:
 - Check the battery for loose, damaged or corroded connections.
 - Check the generator for loose, damaged or corroded connections.
 - Check engine and battery grounds for loose, damaged or corroded connections.
 - Check high current BJB for loose or corroded connections.
 - Verify fuses or fusible links.
 - Inspect wiring, terminals and connectors.
3. Inspect the FEAD system. REFER to 303-05.
4. Check the battery condition and state of charge.
REFER to: [Battery](#) (414-01 Battery, Mounting and Cables, Diagnosis and Testing).
5. Check for abnormal ignition-off current drain(s).
REFER to: [Battery Drain Check](#) (414-01 Battery, Mounting and Cables, General Procedures).
6. If an obvious cause for an observed or reported concern is found, repair as necessary (if possible) before proceeding.
7. Using the diagnostic scan tool, retrieve all Diagnostic Trouble Codes (DTCs). Refer to the appropriate DTC Chart in this section.

DTC Charts

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.
REFER to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).

BCM DTC Chart

NOTE: Diagnose all PCM DTCs first.