

Charging System - Overview

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The generator is driven by the FEAD belt. When the engine is started, the generator begins to generate AC voltage which is internally converted to DC voltage. The DC voltage level is controlled by the voltage regulator (located on the rear of the generator) and is supplied to the battery.

The PCM controls the voltage regulation setpoint and communicates this information to the generator internal voltage regulator over a generator communication (GENCOM) communication circuit. The PCM receives generator load and error conditions from the generator over the generator monitor (GENMON) circuit.

This vehicle is equipped with load shed strategy. This is calibrated off on this vehicle with the engine running, the PCM monitors system voltage on the VPWR and PSCM.

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