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Case Number: S2108000209 REV. A

Release Date: May 2022

Symptom/Vehicle Issue: Multiple Electrical Concerns, Reduced Cooling Fan Speed, Start Stop Does Not Work Intermittently, EPS Steering Warning Message, Check Engine Lamp On, Discharged Battery, No Start, Drained AUX Battery

Customer Complaint/Technician Observation: Owner complains that the above systems intermittently operate after a recent service repair or of complaint of a low battery (vehicle may have been jump started incorrectly). Technician may not have any DTC's dependent on the battery state of health.

However, some of the associated DTC's that may appear after the fuse goes open U0140-00 Lost Communication With The BCM, U0422-00 Implausible Data From The BCM, B2199-16 Battery Voltage Circuit Voltage Circuit Voltage Below Threshold, B12E6-15 Ignition Run Control 3 - Circuit Short To Battery Or Open, P2AF5 - Starter Relay 3 Stuck On, P00FD Battery -B- State Of Charge Performance.

Repair Procedure: Inspect the 150amp fuse (F11) at the at the front PDC. This circuit has a redundant power source with the PCR to supply AUX battery power during a fuse open concern. Inspect the rear PDC fuse array, #5 – C7 150amp fuse from the main battery, location #3 - C6 shunt from the aux battery Fig 4.

Disconnect stop start
and main battery

Access Under hood PDC

Remove Top Half

Front PDC



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Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found



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Jump starting the vehicle improperly can cause the 150amp fuse to open.
Part #68496448AA

This fuse open concern may not set any DTC's but can cause intermittent Start/Stop, EPS and cooling concerns as the aux battery is not getting fully charged.

The circuit is redundant (gets power from more than one pathway) meaning electrical components of the circuit continue to operate but may have intermittent operation as support voltage is reduced.



In a normally functioning system, **the two batteries (main and auxiliary) of the system are always connected by the PDC through the Power Control Relay (PCR), this supports vehicle driving functions except for the brief periods during cranking events, see PCR relay circuit in service library wiring.**

See Fig 1, 2, 3 below.

Service Library

Wiring Diagram - STARTING/CHARGING SYSTEM - 3.6L - ESS

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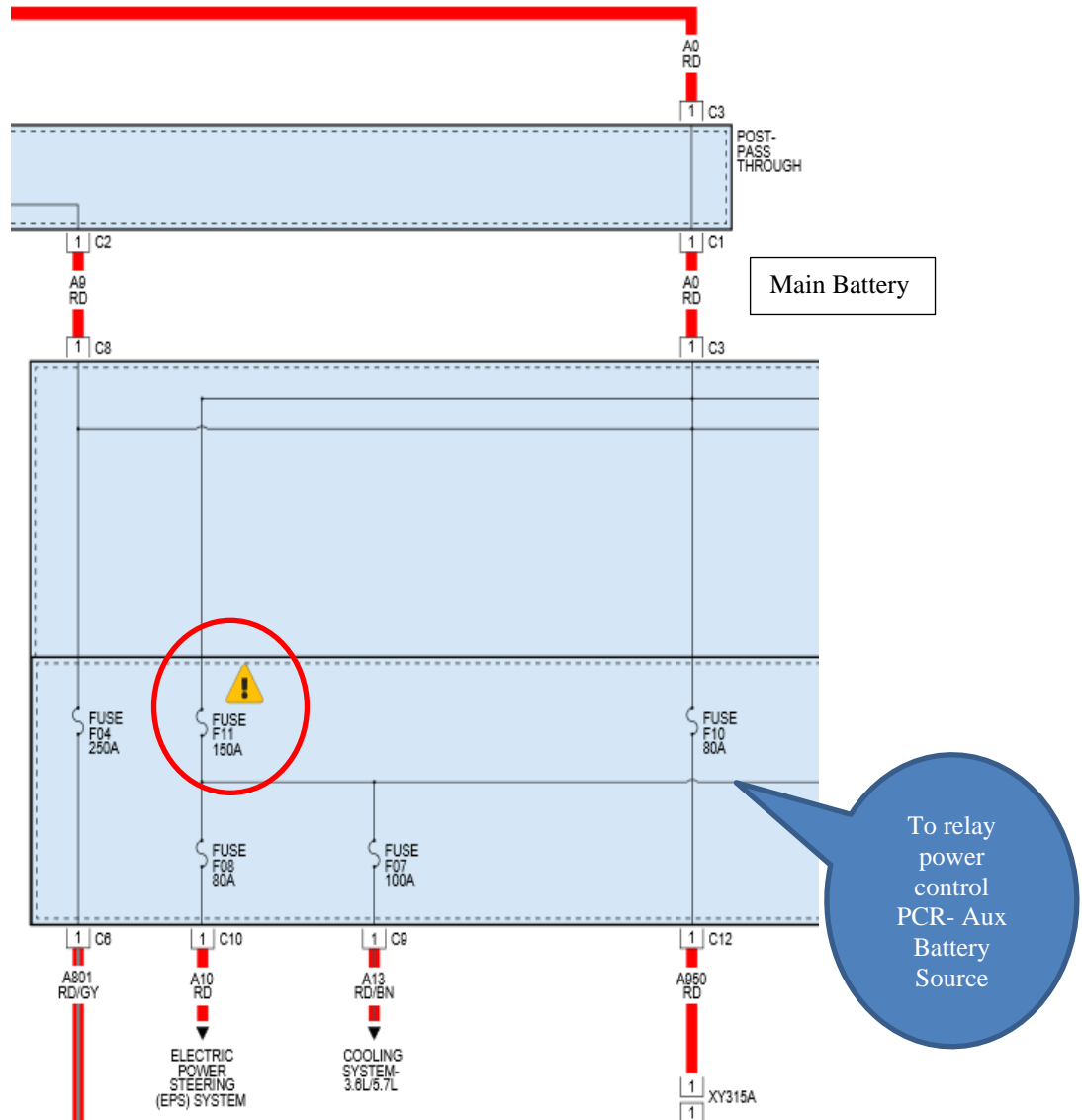


Fig 1

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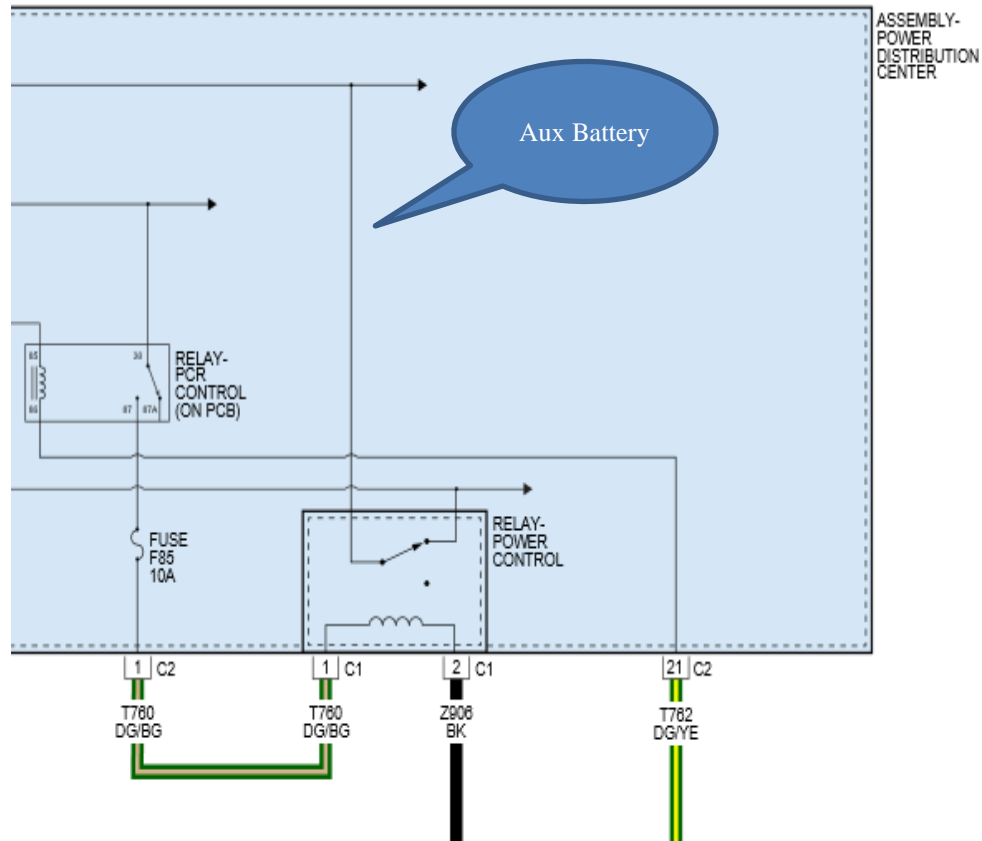


Fig 2

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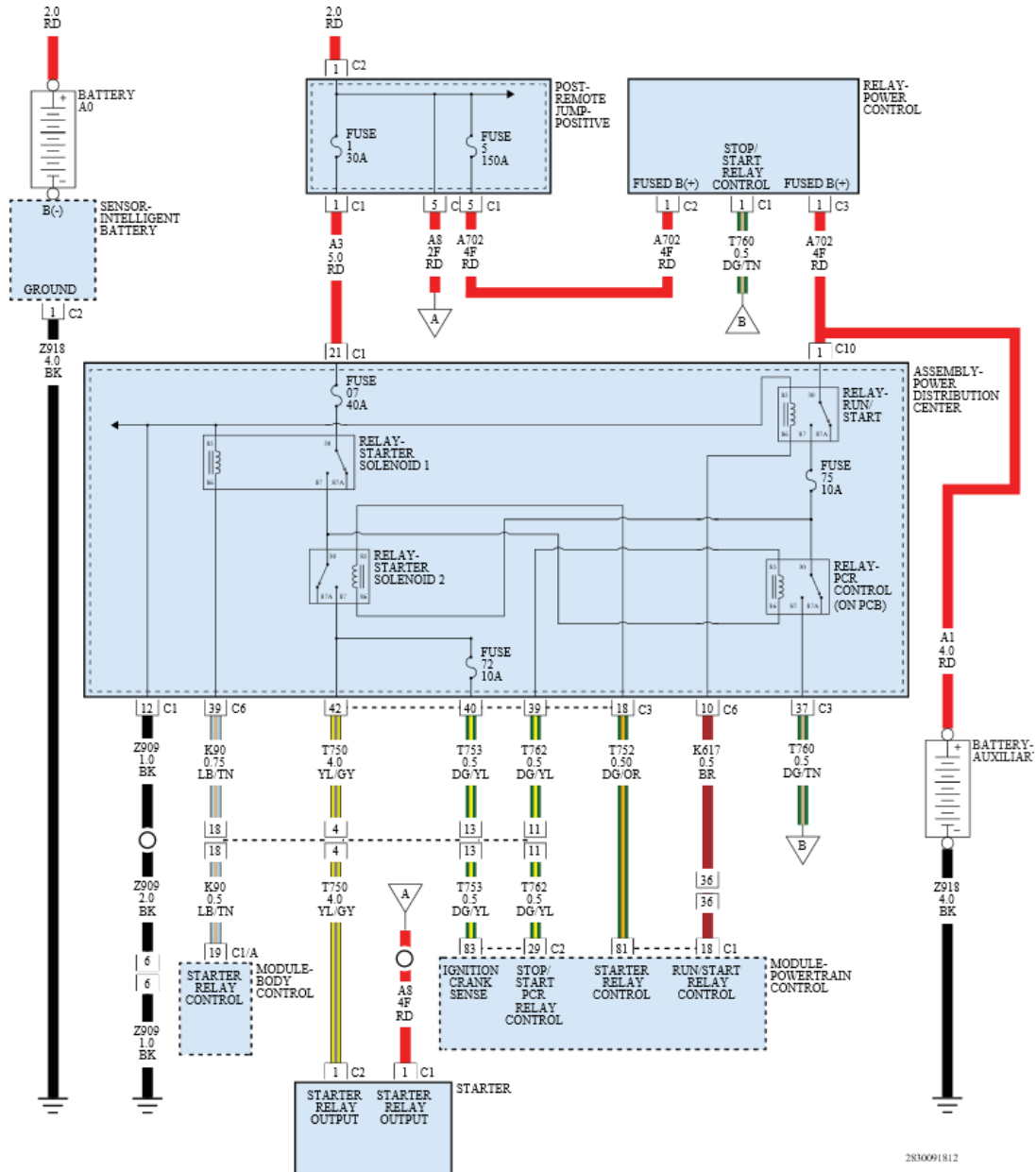
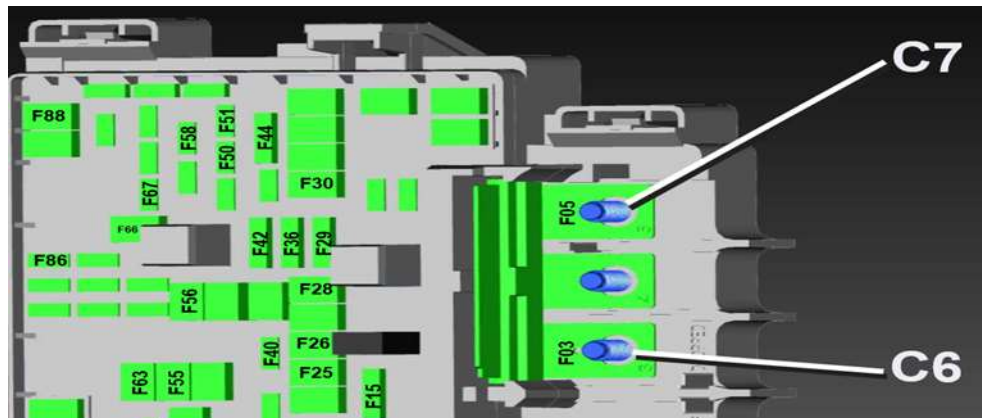


Fig 3

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Rear PDC



FUSES - BATTERY

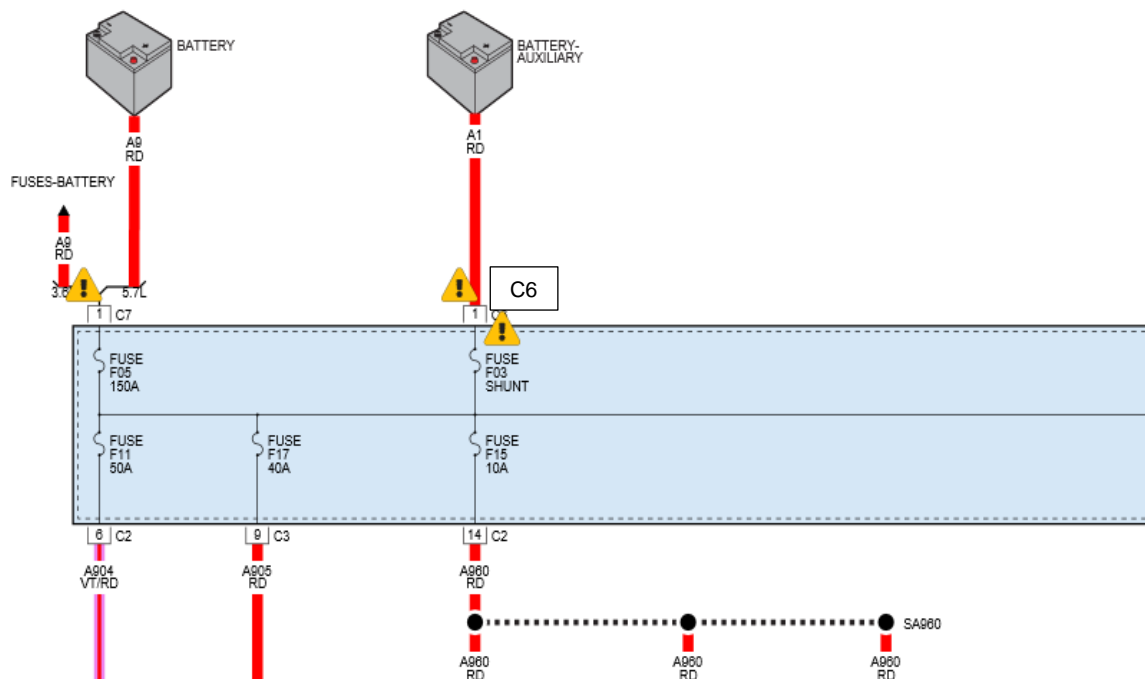


Fig 4

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