



# TT468: LIVEWIRE - CONTACTOR AND COOLING SYSTEM FAULTS

2019-10-03



Electrical

APPLIES TO	SYMPTOMS
LiveWire™	• Contactor and Cooling System Faults

## Purpose for Technical Tip Bulletin

Harley-Davidson has received reports of false indication of contactor and cooling system DTCs (Diagnostic Trouble Codes) after the vehicle has been shut down and the main fuse removed. Refer to Table 1.

## DTCs

Refer to Table 1.

Table 1. DTC list

DTC	Description
P2C7292	Hybrid/EV Electronics Cooling System - Performance or Incorrect Operation
P0AA094	Hybrid/EV Battery Positive Contactor - Unexpected Operation
P0AA394	Hybrid/EV Battery Negative Contactor - Unexpected Operation

## Vehicles Affected

2020 LiveWire

## Markets Affected

All markets are affected.

## Issue

False indication of contactor or cooling system DTCs may be caused by removing the main fuse prior the vehicle shutting completely down. The issue is caused if the main fuse is removed prior to the CAN (Controller Area Network) bus going into sleep mode (10 s after switching Run/Stop to Stop).

If these DTCs are present, they will be found under Current Codes and will not clear with DT II (Digital Technician II) or with the on-board clearing procedure.

## Resolution

To clear these DTCs follow this procedure:

1. Verify all test equipment has been disconnected from the vehicle.
2. Verify main fuse is installed.

3. Position Run/Stop switch to Run.
  - a. Keep in Run position for 10 s.
4. Position Run/Stop switch to Stop.
  - a. Keep in Stop position for 20 s.
5. Remove main fuse.
  - a. Remove main fuse for 1 min.
6. Install main fuse.
7. Position Run/Stop switch to Run.
8. Verify DTCs, contactor or cooling system codes should now be in Historic Codes.
  - a. **Yes:** Clear DTCs.
  - b. **No:** Refer to guided diagnostics in DT II or electrical diagnostic manual.