



TT474: LIVEWIRE - POWER DISCONNECT UPDATE

2020-09-30



Electrical

APPLIES TO	SYMPTOMS
LiveWire	<ul style="list-style-type: none"> Power Disconnect

Reason for Revision

Table 1. Document History

Date	Revision Description
2020-09-30	Updated wording
	* Updated Purpose for Technical Tip Bulletin, Issue, Resolution
2020-09-29	Initial release

Purpose for Technical Tip Bulletin

An update to the power disconnect procedure has been made. The wait time of 2 minutes has been increased to 5 minutes to allow for proper system shut down on Electric LiveWire™ (ELW).

This Technical Tip reinforces the ELW power disconnect procedure found in the owner's and service manuals. The power disconnect procedure must be followed whenever removing 12 V power. This action includes disconnecting the 12 V battery, disconnecting On-Board Charger (OBC) [307-2] or removing the main fuse. Internal Combustion Engine (ICE) vehicles and ELW have two different procedures. For the ICE vehicles, the main fuse is removed and for the ELW, the main fuse is **not** removed.

Before removing 12 V power or disconnecting any modules, wait a minimum of 5 minutes **after** placing the OFF/RUN switch in OFF position.

Markets Affected

All markets are affected.

Issue

Disconnecting OBC [307-2] and **not** waiting 5 minutes after placing the OFF/RUN switch in OFF position can cause electrical issues including, but not limited to:

- Diagnostic Trouble Codes (DTCs) generated.
- Communication errors between the modules (OBC, Electric Vehicle Power-Train (EVPT), Rechargeable Energy Storage System (RESS)) that may be unrecoverable requiring replacement of the part.

Resolution

NOTE

Follow these procedures to deactivate and activate the ELW electrical system.

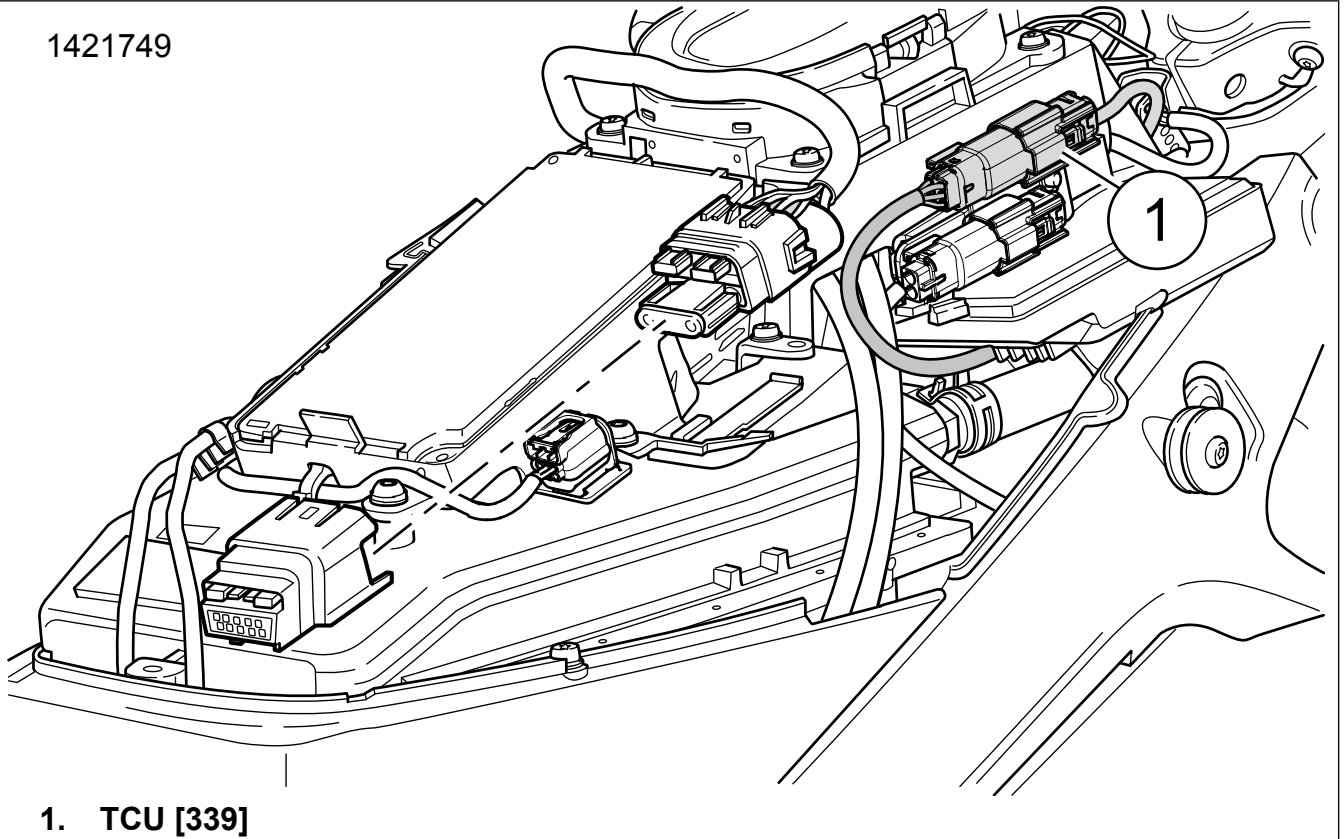
Deactivate Electrical System

1. Remove top cover.
2. Remove rear cover.
3. Verify that fob is present.
4. Place OFF/RUN switch in RUN position.
5. See Figure 1. Disconnect Telematic Control Unit (TCU) [339] (1).
6. **Security siren equipped:** Disconnect security siren [142].
7. Place OFF/RUN switch in OFF position.
8. Wait 5 minutes to allow for proper systems shut down.
9. See Figure 2. Disconnect OBC [307-2] (1).

Activate Electrical System

1. Verify that OFF/RUN switch is in OFF position.
2. See Figure 1. Connect [339] (1).
3. **If disconnected:** Connect [142].
4. See Figure 2. Connect [307-2] (1).
5. Install rear cover.
6. Install top cover.

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1. TCU [339]

Figure 1. TCU connector

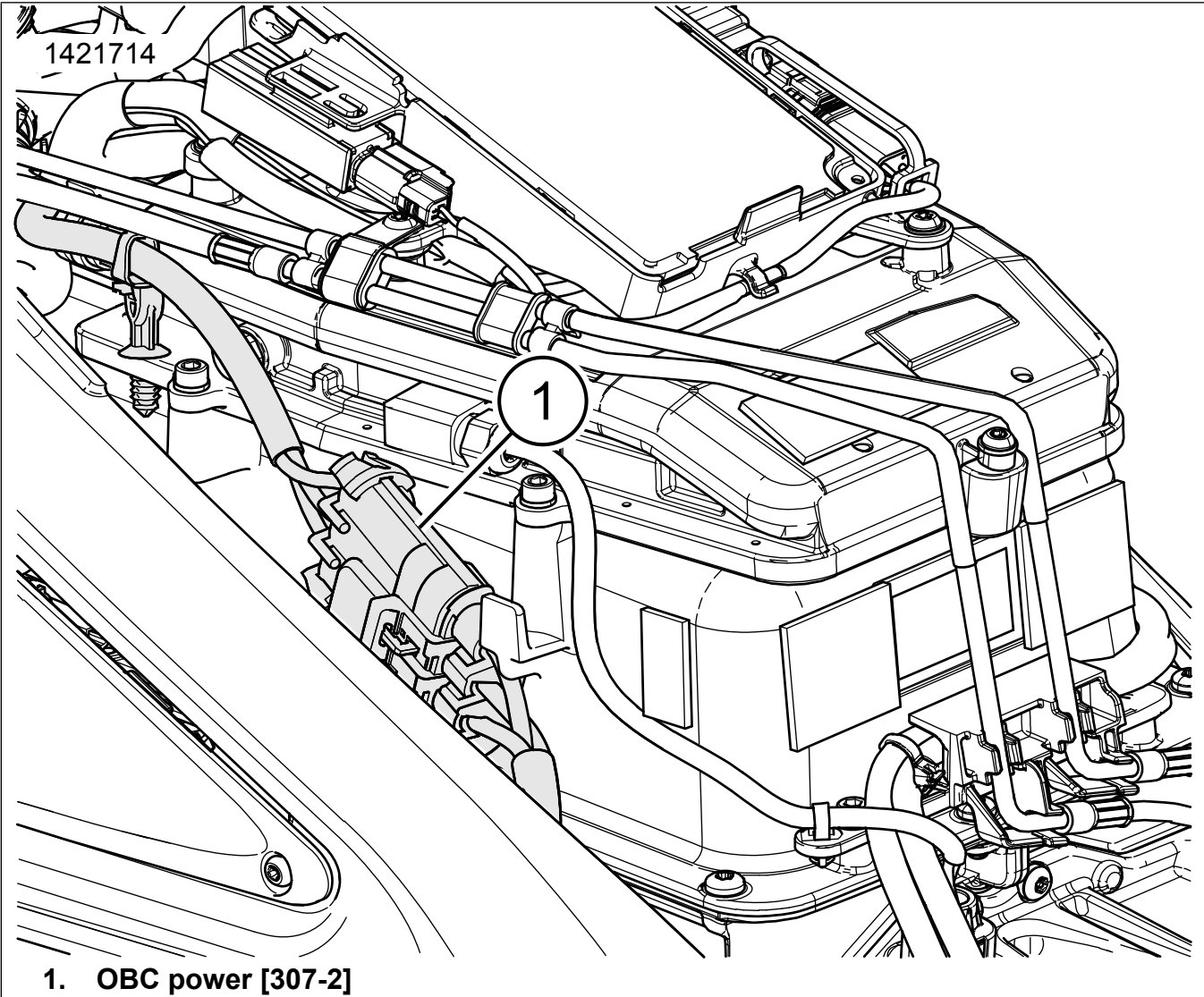


Figure 2. OBC connector