

# SS 1034884 P4 New Cascadia Unintended Dome Lamp Activation Due To Poor Connections at the sSAM

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## Applicable Vehicles:

This solution applies to all P4 New Cascadia vehicles.

## Symptoms:

Ignition on, with no dome lamp inputs requested, center dome lamp starts coming on and off slowly or just stays on. Turning off the ignition and or removing power from the sSAM will not eliminate the condition. Also trying to turn the dome lamp off using the dome lamp switch in the dash will not turn off the lamp (see affected dome lamp images below show dome lamps affected). A video is also attached documenting the dome lamp on / off condition that can occur.

Dome lamp Day Cab

Dome Lamp Sleeper

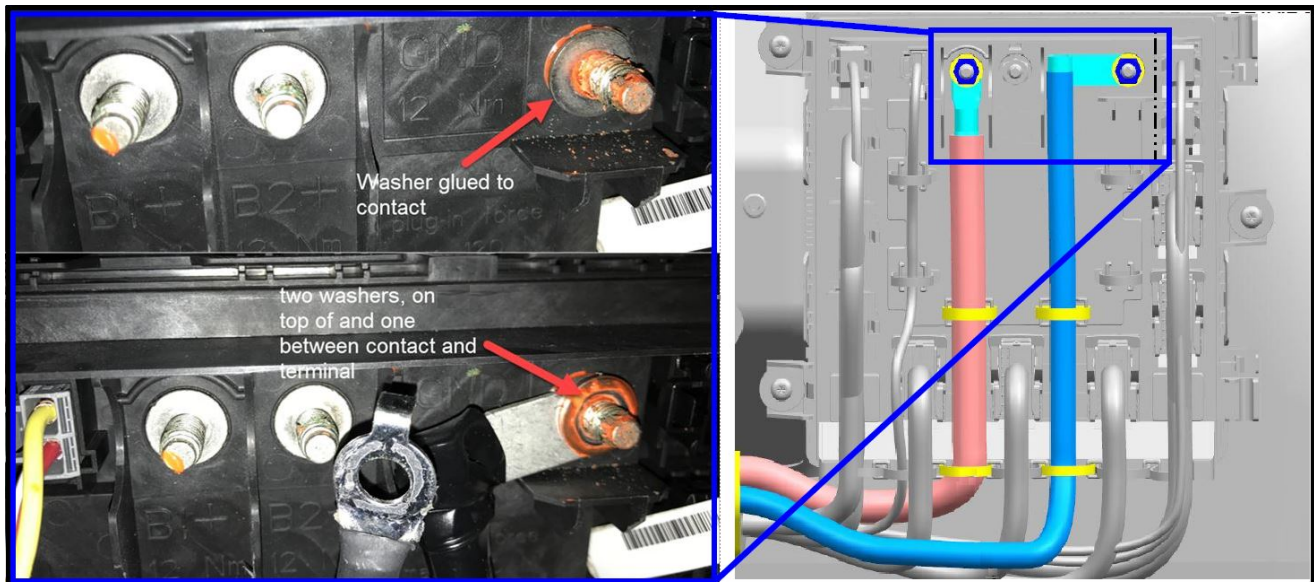


## Issue:

Maintaining a good power and ground supply to the Single Signal Detect and Actuation Module (sSAM), is required for the sSAM to operate properly. Poor connections at supply wires to the sSAM can result in erratic operation of SSAM functions. See images of poor sSAM connections.

**WARNING: ELECTRICAL SHOCK** To avoid injury from electrical shock, use care when working with or around battery cables. The magnetic switch studs are at battery voltage.

### Example of poor sSAM connections



## Solution:

If encountering unintended operation of the center dome lamp, check the power and ground connection to the sSAM. There should be no material on the connections at sSAM and the cables need to be clean and properly torqued as embossed on the sSAM body (12NM, "9 Ft LBS") using patch lock nut P/N 23-14592-008.

### Power and Ground Cable Installations at the sSAM

