



# Replace High Voltage Battery Positive and Negative Contactors

|                       |                   |                      |                     |                       |                       |
|-----------------------|-------------------|----------------------|---------------------|-----------------------|-----------------------|
| <b>Classification</b> | Campaign Bulletin | <b>Section/Group</b> | 16 - Battery System | <b>Country/Region</b> | United States, Canada |
| <b>Year</b>           | 2018              | <b>Model</b>         | Model 3             | <b>Version</b>        | All                   |

**Bulletin Classification:** *This campaign bulletin addresses a known non-safety-related condition and provides recommended technical diagnosis and repair procedures. Apply this procedure to all vehicles in the affected VIN range listed. These instructions assume knowledge of motor vehicle and high voltage electrical component repairs, and should only be executed by trained professionals. Tesla assumes no liability for injury or property damage due to a failure to properly follow these instructions or repairs attempted by unqualified individuals.*

## Condition

On certain Model 3 vehicles, the inner assembly of the high voltage (HV) battery positive and negative contactors might be in a weakened state and fail unexpectedly. Upon failure of either contactor, the high voltage system shuts down, and the vehicle cannot be charged or driven.

## Correction

Replace the HV battery positive and negative contactors with updated parts.

| Correction Description                              | Correction | Time |
|---|------------|------|
| SB-19-16-001 Not Applicable                         | S011916001 | 0.0  |
| Replace HV Battery Positive And Negative Contactors | S021916001 | 1.4  |

| Required Part(s): | Part Number  | Description                                      | Quantity |
|-------------------|--------------|--|----------|
|                   | 1089334-00-H | ASY, SWITCH, HV                                  | 2        |
|                   | 1104475-00-C | BOLT&WSHR[DBL], M8x23, STL ZNFL, SDOG ADH        | 4        |
|                   | 1104654-00-B | NUT&WSHR[DBL], M8, BRS, SEALER                   | 2        |
|                   | 1117669-00-A | BOLT, 5-LOBE, M6X19, [109], ZNNI, MAT, PTP, SEAL | 2        |
|                   | 1108958-00-A | SEAL, PROBE LID, HVBAT                           | 1        |
|                   | 1108907-00-A | BREATHER, NITTO Z-PLUG-S                         | 1        |
|                   | 1117252-00-A | BOLT, HF, M12X40, STL [109], ZN, ADH, MAT        | 2        |
|                   | 1093060-00-A | NUT&WSHR, M8, STL[9], DOUBLE SEMS                | 2        |

### Shop supplies:

Isopropyl alcohol wipes

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Manual.

|                         |              |  |
|-------------------------|--------------|--|
| <b>Special Tool(s):</b> | 1057602-00-A | Ratchet, 1/4" Sq. Dr., HV insulated                  |
|                         | 1057603-00-A | Extension Bar, wobble, 1/4" Dr., HV insulated        |
|                         | 1057607-00-A | Magnet, Flexible, HV insulated, 18"                  |
|                         | 1133768-00-A | Socket, 1/4" Dr., deep, 10 mm, thin wall, insulated  |
|                         | 1076927-00-A | Resistance meter, micro ohm, Hioki RM 3548           |
|                         | 1076921-00-B | Insulation Multimeter, Fluke 1507                    |
|                         | 1130480-00-A | Test Probes, Slim, Fluke TP38                        |
|                         | 1108272-00-B | Cap, logic connector, Inv., 3DU                      |
|                         | 1059330-00-B | Socket, 1/4in Dr, 5-Lobe Torx External               |
|                         | 1026636-00-A | Pack Enclosure Leak Tester, HV Battery               |
|                         | 1140501-00-A | Pack Kit, Enclosure, Leak Test, HV Battery, Complete |
|                         | 1144879-00-A | Kit, Enclosure Leak Test Adapters, HV Battery        |
|                         | 1455410-00-A | Kit, Dummy Plug                                      |
|                         | 1127845-00-A | Asy, Service Cover, Penthouse, Model 3               |
|                         | 1076971-02-A | Wrench, Torque + Angle, 1/4" Dr                      |
|                         | 1032900-00-A | Tool, Inductive Heating                              |

**⚠️ WARNING:** Proper personal protective equipment (PPE) and HV insulating gloves with a minimum rating of class 0 (1000V) must be worn any time high voltage might be present. Refer to [TN-15-92-003](#), "High Voltage Awareness Care Points" for additional safety information.

**⚠️ WARNING:** Proper personal protective equipment (PPE) is required to perform this procedure:

- High voltage insulating gloves
- Leather glove protectors
- High voltage glove tester
- Safety glasses
- Electrical hazard rated safety shoes

**⚠️ WARNING:** Make sure that the HV gloves are not expired. HV gloves can be used up to 12 months after the testing date printed on the glove, but only 6 months after first use even if the gloves are still within the 12-month period.

**⚠️ WARNING:** A glove inflator is the only recommended way to test HV gloves. Both HV gloves must pass testing before beginning this procedure. If either glove does not pass the air check, discard the pair.

## Procedure

1. Remove the HV battery positive contactor (refer to Service Manual procedure 16302102).
2. Remove the HV battery negative contactor (refer to Service Manual procedure 16302002).
3. Install the HV battery positive contactor (refer to Service Manual procedure 16302102).
4. Install the HV battery negative contactor (refer to Service Manual procedure 16302002).

**Affected VIN(s)** Affected Model 3 vehicles built between approximately September 1, 2018 and October 22, 2018.

**NOTE:** This is a simplified summary of the affected VIN list. Refer to the VIN/Bulletin Tracker or Customer/Vehicle profile to determine applicability of this bulletin for a particular vehicle.