Model: All **Vehicle System:** 17 - Electrical **Region:** All

Tech Note: 12V Battery Replacement

Tech Notes are announcements that help to communicate and track new information about Tesla Service concerns. Such concerns may or may not be VIN specific. 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 for repairs attempted by unqualified individuals.

This Tech Note supersedes TN-16-17-001, dated 6-Oct-16. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

Any time the 12V battery charge falls below 10.5V, the capacity of the battery is reduced and the battery might not perform as expected, even after it is recharged. A degraded 12V battery might also place a greater load on the High Voltage (HV) battery through more frequently needed support cycles.

⚠ **CAUTION:** Avoid over-discharging the 12V battery. Disconnect 12V power (refer to Service Manual procedure 17010200) or keep a charger attached to the 12V battery when the vehicle is displaying battery management system (BMS) fault codes or when the HV battery has less than a 6% state of charge (SOC).

⚠ **CAUTION:** Do not use a charger that applies more than 13.5V, and do not charge above 30A. Using a float charger comparable to the Samlex SEC-1230 / WSC-1230 range is recommended.

Replace the 12V battery any time the battery charge falls below 10.5V (refer to Service Manual procedure 17011202).

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