

Model: Model S, Model X

Vehicle System: 92 - Tools and Equipment

Region: All

Tech Note: Wedges for HV Battery Crate

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 Motors assumes no liability for injury or property damage due to a failure to properly follow these instructions or for repairs attempted by unqualified individuals.

Some high voltage (HV) battery crates have incorrect supporting foam, which causes the battery to sit too low in the crate to attach the hooks from the battery hoist.

If the hooks cannot be attached to an HV battery, create 2 wooden wedges that can be used to slightly raise a corner of the HV battery. This allows enough space to attach the hook to that corner.

The number of affected HV battery crates will decline over time; crates will have the proper foam installed the next time that they are returned to a remanufacturing center with an HV battery that needs to be remanufactured.

Fabricating the Wedges

TIP: Most home improvement stores perform custom cutting at little-to-no cost when purchasing lumber.

Cut 2 lengths of a standard “2x4” framing stud to approximately 5 in (125 mm) long. Cut one edge of each piece to a 60 degree angle from vertical (Figures 1 and 2).

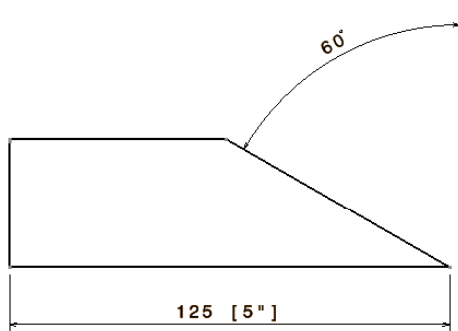


Figure 1



Figure 2

Using the Wedges

1. Place 1 wedge under a corner of the HV battery with the straight end of the wedge touching the crate runner (Figure 3).

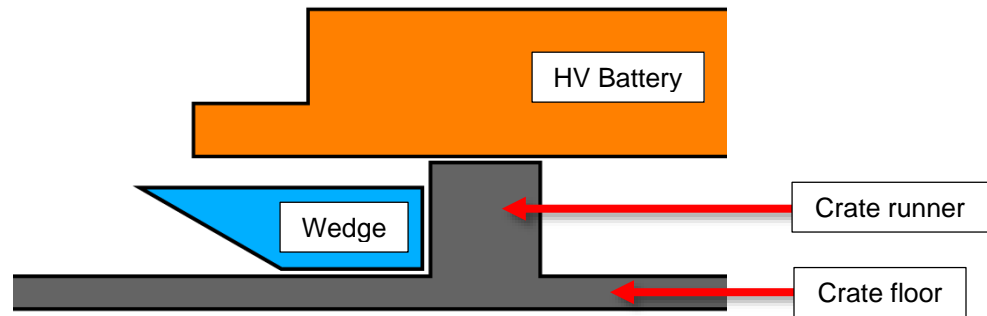


Figure 3

2. Place the other wedge adjacent to it, with the angled sides of the wedges touching each other (Figure 4).

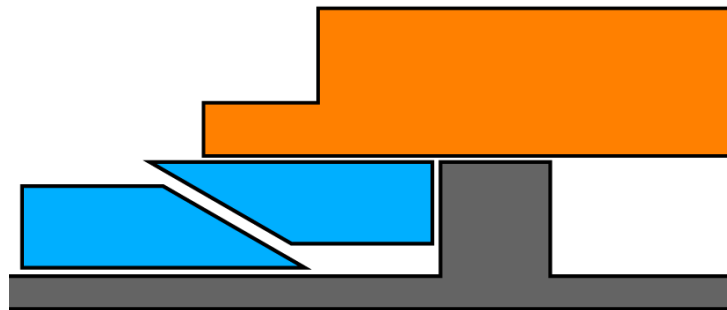


Figure 4

⚠ WARNING: Do not strike the HV battery.

3. Use a dead blow mallet to force the wedges together. As the wedges move, the corner of the HV battery raises slightly (Figure 5).



Figure 5

4. Attach the hook that is closest to the raised corner of the HV battery.

5. Tap the wedges with the dead blow mallet to loosen them.

6. Repeat the procedure at each corner of the HV battery.

TIP: If available, place an even layer of dense polyethylene foam over the crate runners after the HV battery is removed (Figure 6). Otherwise, the procedure needs to be repeated to disconnect the battery hoist hooks from the next HV battery that is placed in the crate.

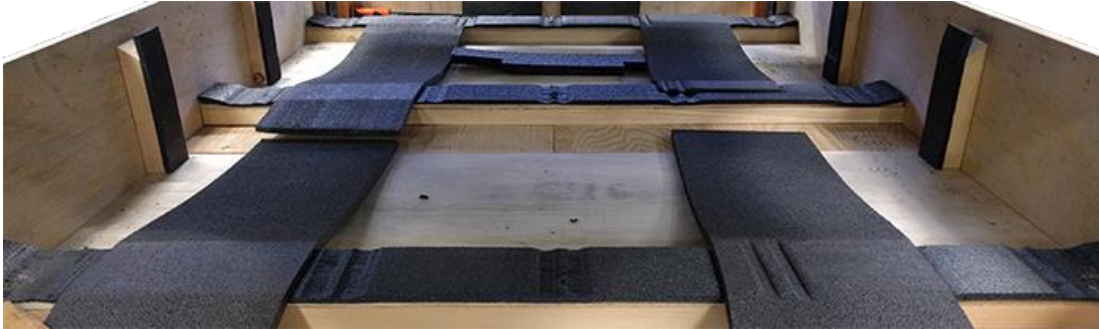


Figure 6

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