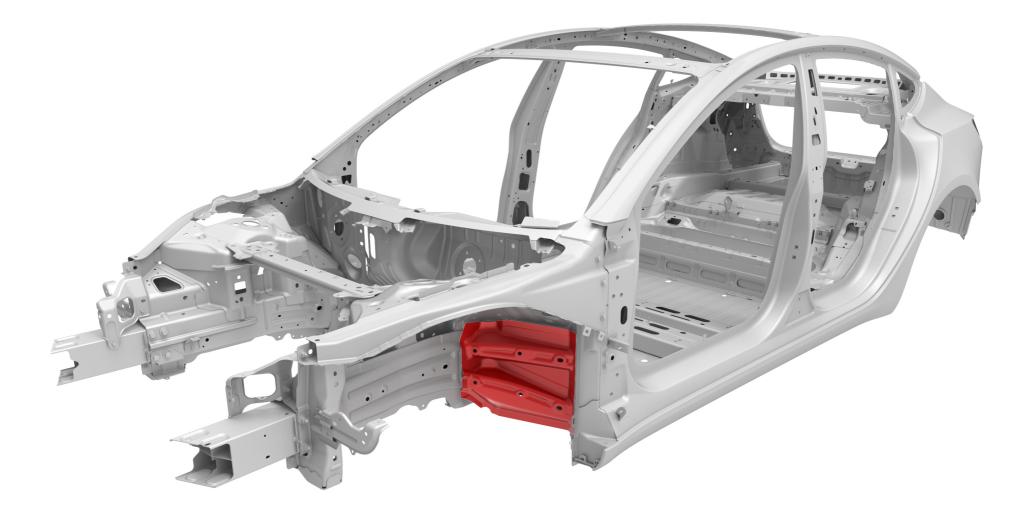


Torque Box Cover Assembly





Parts List

TESLA

Quantity	Part Number	Description	Image / Notes
1	1075945-S0-A (LH) 1075946-S0-A (RH)	Torque Box Cover Assembly	
58 rivets needed; order 60 rivets	1454538-00-A	High Strength Structural Rivet, 6.5 mm	All rivets come in packages of 10; order all rivets in multiples of 10.
1	_	Structural Adhesive	 WARNING: Use only Tesla-approved structural adhesive; refer to BR-15-92-008, "Approved Structural Adhesive and Urethane Sealants" for a list of current approved structural adhesives. Refer to BR-17-92-002, "Obtaining Adhesives, Coolant, and Other Chemicals" for information on
			how to obtain approved structural adhesive.
1	_	Corrosion-Resistant Epoxy Primer	Source locally; not available from Tesla.

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

Repair Information

TESLA

Repair Information	Warnings and Cautions	Special Tools
This procedure is for the left-hand component; the procedure is identical for the right-hand component.	WARNING: Wear the appropriate personal protective equipment (PPE) when performing this procedure.	No special tools are required to perform this procedure.
	CAUTION: This procedure involves only steel components. Use the appropriate tools to avoid cross- contamination.	

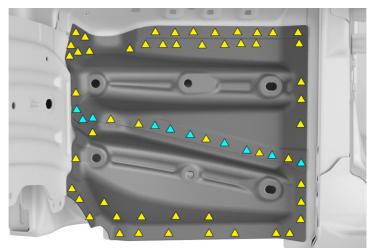


Remove the original component.



Remove any seam sealer as necessary to identify the factory spot welds.





В

Use a drill with a spot weld bit to drill out the factory spot welds. Use a belt sander to sand down any factory spot welds that cannot be reached with a drill.

 \triangle Factory Spot Weld (x52)

 \triangle Factory Spot Weld (2 layers) (x10)



NOTE: Factory spot welds indicated by a light blue triangle need to be drilled out through 2 layers of material.



NOTE: Factory spot weld locations shown are approximate. Exact spot weld locations and number vary from vehicle to vehicle.



Remove the original component (continued).



Use a drill with a spot weld bit to drill out the factory spot welds. Use a belt sander to sand down any factory spot welds that cannot be reached with a drill (continued).





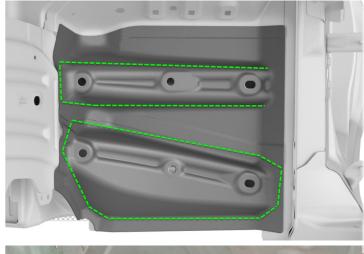
1

MODEL 3

Remove the original component (continued).

Cut the component on the green dashed lines shown.

💼 💼 💼 Cut Line



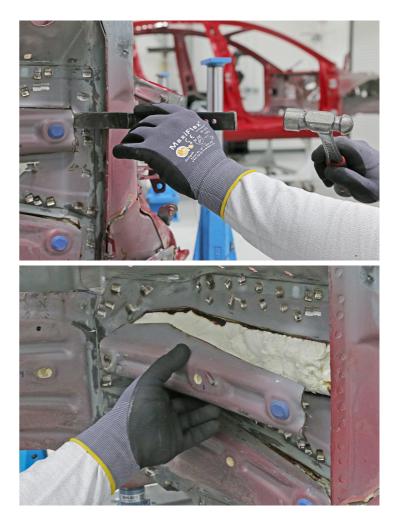




Remove the original component (continued).



Use a hammer and chisel to remove the bulk of the original Front Torque Box Cover Assembly.





Remove the original component (continued).

Ε

Use a hammer and chisel to remove the remaining pieces of the original Front Torque Box Cover Assembly.



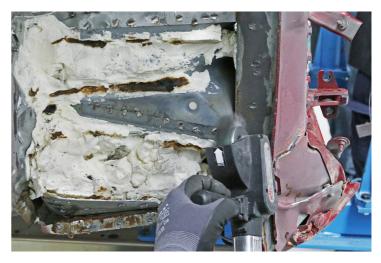


Remove the original component (continued).



1

Use a wire wheel to remove the foam in the Front Torque Box Cover area.





Use a disc sander with a medium-abrasive surface conditioning disc to remove any remaining materials from the mating surfaces. Use a belt sander with a medium-abrasive belt for any areas that cannot be reached with a disc sander. Vacuum any adhesive dust.



2

TESLA

WARNING: Remove the epoxy adhesive in a well-ventilated area. Wear suitable personal protective equipment.



CAUTION: Within two hours of removing the e-coat or paint, cover the abraded aluminum areas in the mating surface with a thin primer layer of structural adhesive. If the abraded aluminum areas are not primed within two hours, they must be abraded again to remove any oxidation.



Prepare for installation.



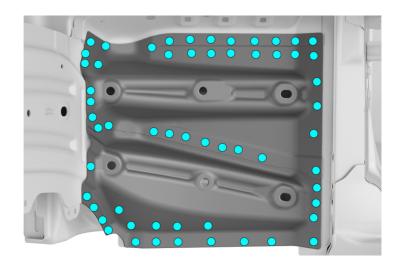
1

Put the new component into position and clamp it into place.

В

Mark the fastener locations on the new component.

O High Strength Structural Rivet, 6.5 mm (x58)





MODEL 3

Replacement

Prepare for installation (continued).



Drill 6.7 mm holes for structural rivets.

NOTE: Install a grip screw after drilling each hole to keep the panel aligned while drilling the remaining holes.





D

Mark the surface preparation boundary lines on the vehicle.



Prepare for installation (continued).

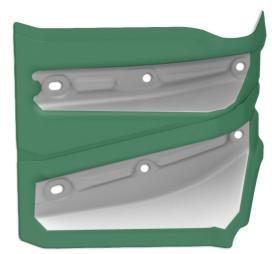
Ε

F

Remove the new component.







Mark boundary lines along all mating surfaces between the new component and the vehicle for surface preparation.

Steel-to-Steel Mating Surface



Prepare the surfaces.



2

Use a red Scotch-Brite pad or equivalent to scuff the e-coat on the mating surfaces of the new component and the vehicle.



Clean all the mating surfaces of the new component or components and the vehicle with isopropyl alcohol (IPA).



WARNING: Wipe off the remaining isopropyl alcohol with a clean, dry towel immediately after application. Do not let the remaining isopropyl alcohol air dry. Allowing the remaining isopropyl alcohol to air dry can compromise the adhesive bond.



MODEL 3



MODEL 3

Replacement

Apply structural adhesive.



Spread a thin coating of structural adhesive as a primer layer on the mating surfaces of the vehicle and the new component.



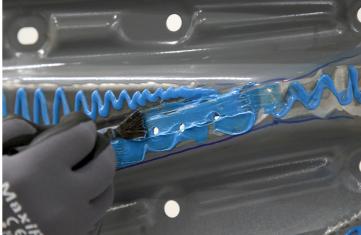
3

WARNING: Use only Tesla-approved structural adhesive; refer to BR-15-92-008, "Approved Structural Adhesive and Urethane Sealants" for a list of current approved structural adhesives.



NOTE: Assembly must be performed while the primer layer is still wet. The drying time of the adhesive varies depending on temperature and humidity.







MODEL 3

Replacement

3

Apply structural adhesive (continued).



While the primer layer is still wet, apply a bead of structural adhesive on top of the primer layer on the vehicle.



Install the new component.

Α

Put the new component into position and clamp it into place.





MODEL 3

Replacement

Install the new component (continued).



Insert the structural rivets.



insert the structural rivets.

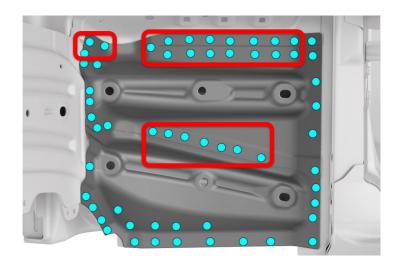


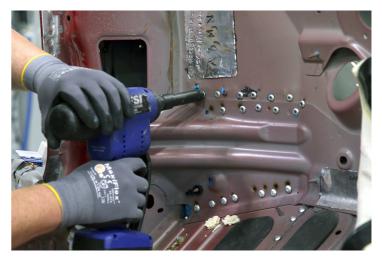
NOTE: Install the rivets circled in red from inside of the vehicle.

High Strength Structural Rivet, 6.5 mm (x58)



Install the structural rivets.







Replacement

Install the new component (continued).



Wipe off any excess adhesive.

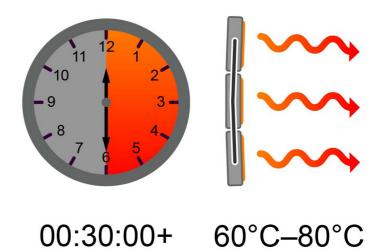
achieve full strength.

Bake the structural adhesive so that the bonded panels reach a

temperature of 60°C-80°C (140°F-176°F) for at least 30 minutes to



MODEL 3



Ε



5

6

Prime any bare metal with a suitable corrosion-resistant epoxy primer.



After refinishing, use a 360-degree spray wand of suitable length to apply corrosion-proofing material on the inside of the enclosed area to



prevent corrosion.



Replacement

TESLA

Reinstall any expanding foam that was removed during the repair.