 Tesla, Inc. Service Bulletin		Retrofit Hydraulic Control Unit Wake-Up Wire, Model Y (Li-Ion Battery)	
SB-22-33-006 April 30, 2022			
Classification		Section/Group	Mobile Service
Repair Bulletin		33 - Brakes	Can Perform (where permitted)
Model Year	Model	Country/Region	Build Location
2021 - 2022	Model Y	All	Fremont, Giga Shanghai
<small>The model(s) and model year(s) listed are a general approximation 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.</small>			

Repair Bulletin: This repair bulletin provides instructions on addressing a noted condition or possible customer concern regarding the operation of Tesla vehicles. These instructions should only be performed by trained professionals.

Condition

Some Model Y vehicles were built without a hydraulic control unit (HCU) wake-up wire, and in rare circumstances, braking and stability control related alerts may appear on the instrument cluster and touchscreen during the vehicle power-on process. Such faults can typically be corrected and the affected functionality restored with a vehicle power cycle.

Correction

Upon customer complaint of braking and stability control alerts that clear after a vehicle power cycle, retrofit an HCU wake-up wire.

Correction Description	Correction	Time
SB-22-33-006 Not Applicable	S012233006	0.00
Retrofit HCU Wake-Up Wire, Model Y (Li-Ion Battery)	S022233006	0.45

	Part Number	Description	Quantity
Parts Required	1742989-00-A	ASY,HARN,ESP WAKE,JUMPER,M3Y	1
	1061177-00-B	WIRE HARNESS REPAIR KIT	As Needed

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the [Parts Catalog](#).

Special Tools	1025812-00-A	Pin Drag Kit
	1060908-00-A	Soldering Iron and Heat Tool Kit
	1451046-00-A	Crimp Tool
	1451045-00-A	Wire cutting and stripping pliers

Shop Supplies Electrical tape

Procedure

1. Remove the underhood storage unit (refer to Service Manual procedure [15240702](#)).
2. Remove the HEPA duct (refer to Service Manual procedure [18103802](#)).
3. Disconnect LV power (refer to Service Manual procedure [17010410](#)).
4. Release the clip that attaches the HV harness to the shock tower brace (Figure 1).

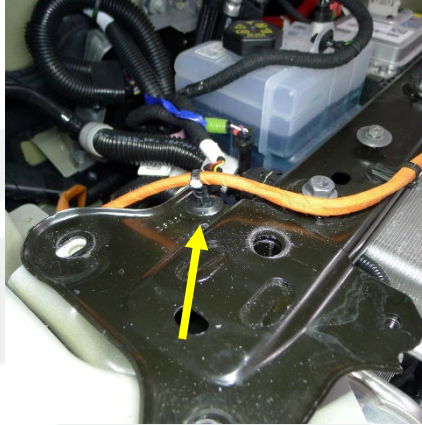


Figure 1

5. Release the clips (x2) that attach the coolant hose to the LV battery (Figure 2).

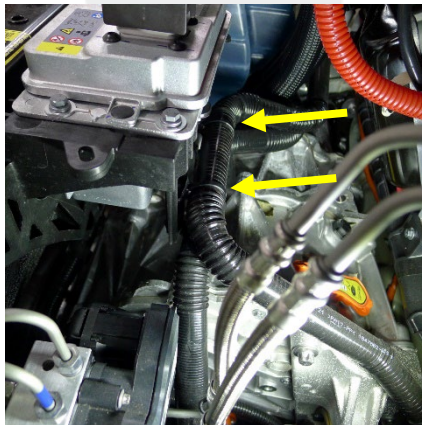


Figure 2

6. Loosen the forward RH shock tower brace bolt (Figure 3).



Figure 3

7. Remove the remaining shock tower brace bolts (x5) (Figure 4), and shift the shock tower brace forward on the LH side.

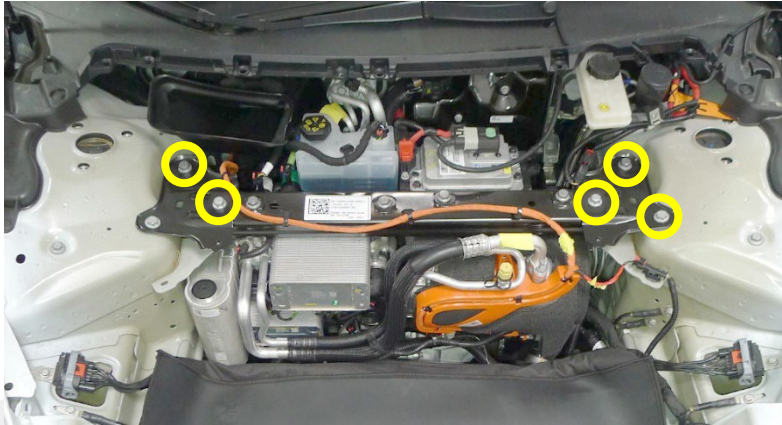


Figure 4

8. Slide the red locking tab, raise the lever (Figure 5), and then remove connector X151 from the HCU (Figure 6).

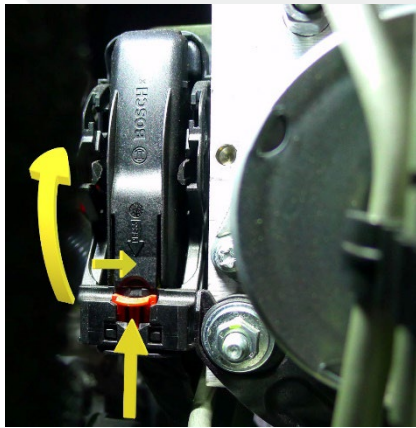


Figure 5

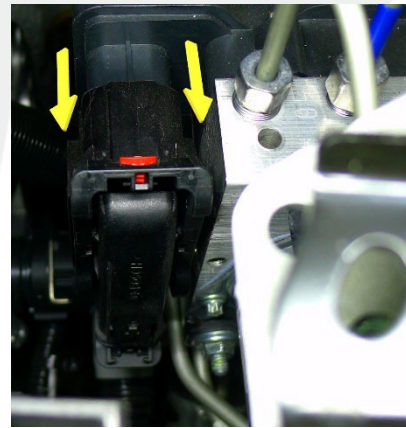


Figure 6

9. Release the clip that attaches the electrical harness to the HCU bracket (Figure 7).

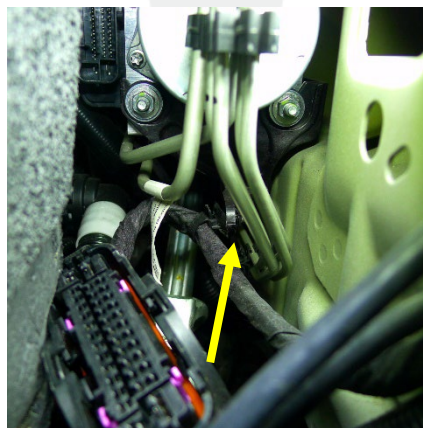


Figure 7

10. If necessary, remove cable ties or cut tape to move connector X151 to a comfortable working position.

11. Remove the cable tie from the rear of connector X151 (Figure 8).



Figure 8

12. Release the tabs (x2) that attach the rear cover to connector X151 (Figure 9), swing the rear cover out (Figure 10), and then remove the rear cover from the connector.

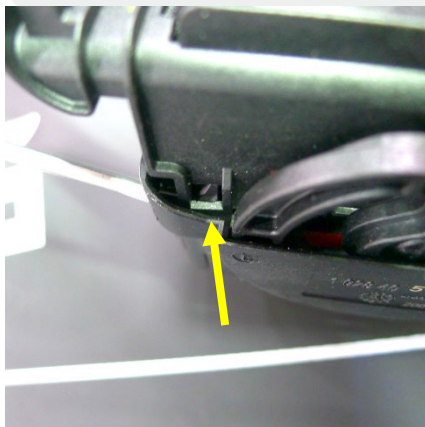


Figure 9

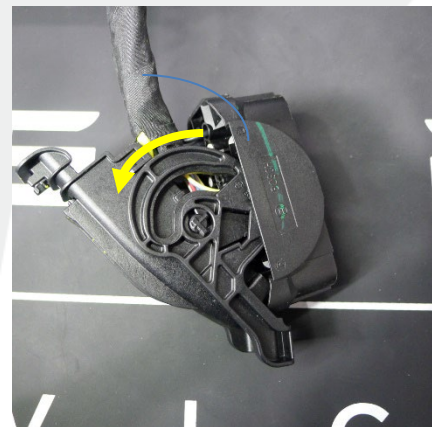


Figure 10

13. Unwrap and remove the electrical tape from the electrical harness for a distance of 150 mm from connector X151 (Figure 11).

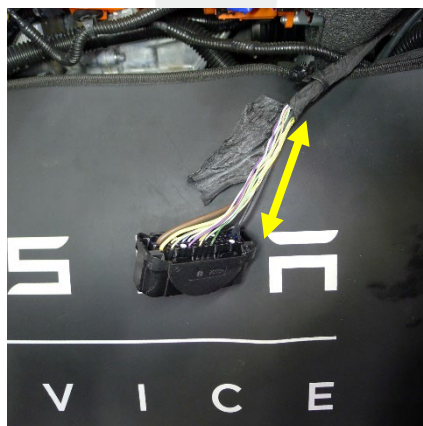


Figure 11

14. Use a pick to slide the large locking tab of connector X151 from “CLOSE” to “OPEN” (Figure 12).

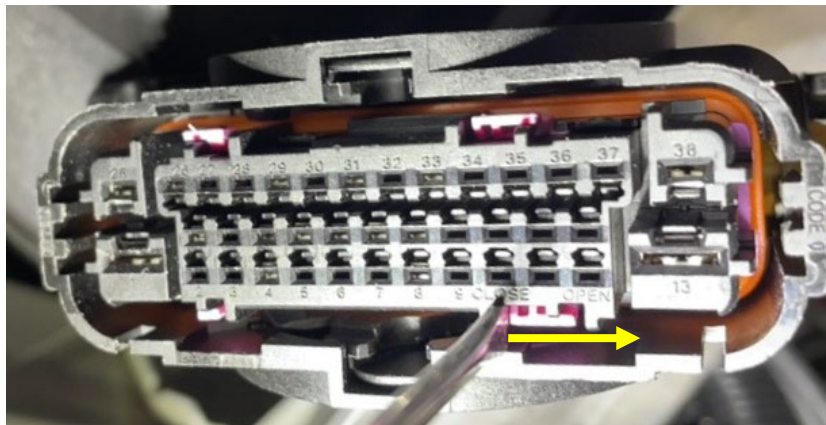


Figure 12

15. Use the tool from the pin drag kit to release the lock for terminal 28 of connector X151 (Figure 13), and at the same time, remove the white wire from receptacle 28 (Figure 14).



Figure 13

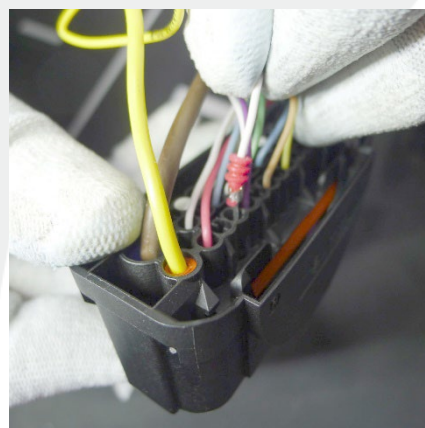


Figure 14

16. Cut the terminal from the white wire, and then wrap the wire end with yellow tape (Figure 15).

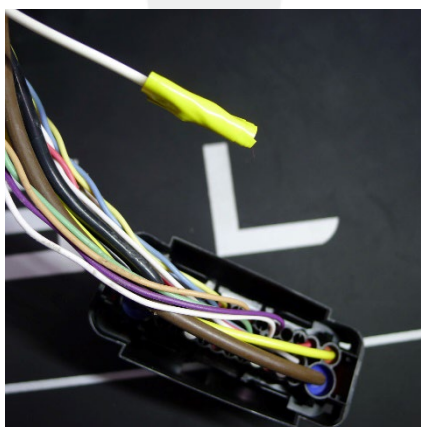


Figure 15

17. Use the tool from the pin drag kit to release the lock for terminal 25 of connector X151 (Figure 16), and at the same time, remove the yellow wire from receptacle 25 (Figure 17).

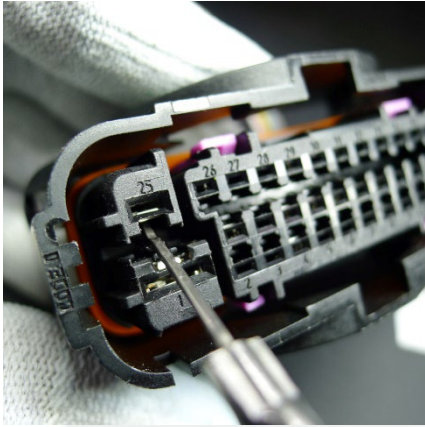


Figure 16

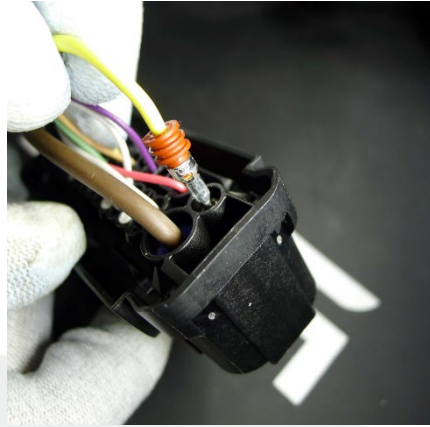


Figure 17

18. Cut the yellow power terminal wire 100 mm from the end (Figure 18), and then discard the end.

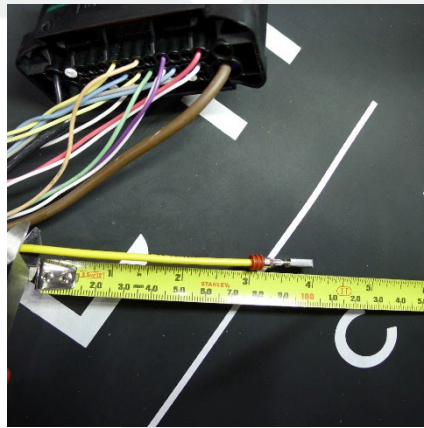


Figure 18

19. Slide the shrink tubing over both wires of the jumper, to the middle of the jumper (Figure 19).

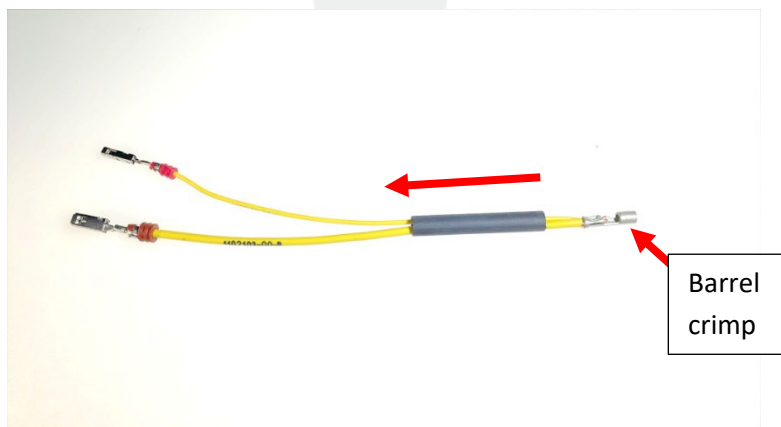


Figure 19

20. Make a butt splice repair to attach the yellow power terminal wire to the barrel crimp of the jumper (Figures 20, 21, and 22).

NOTE: Refer to [SI-17-17-002](#), 'Electrical Harness Repair' for instructions how to make this repair.

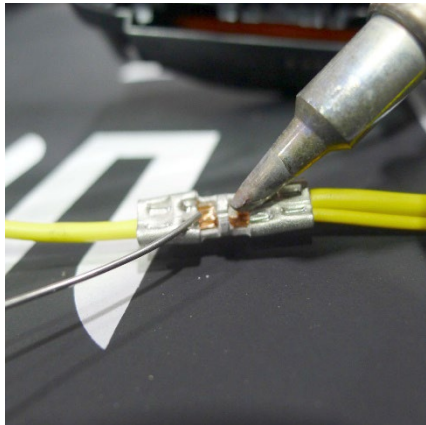


Figure 20 – Crimp wire and solder barrel crimp

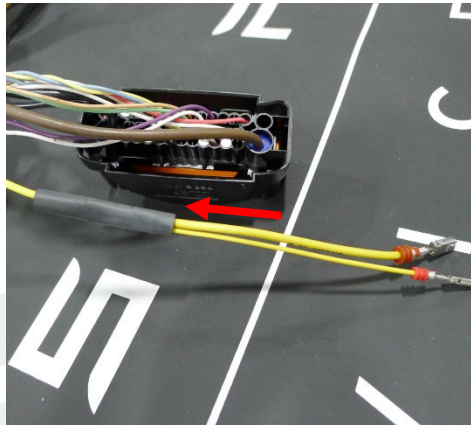


Figure 21 – Slide shrink tubing over barrel crimp and heat

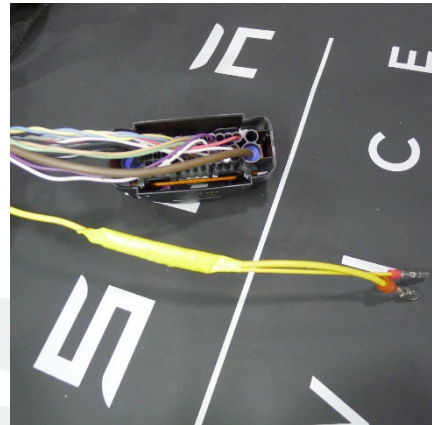


Figure 22 – Wrap with yellow tape to complete

21. Insert the smaller terminal of the jumper into receptacle 28 (Figure 23) and the larger terminal of the jumper into receptacle 25 (Figure 24).

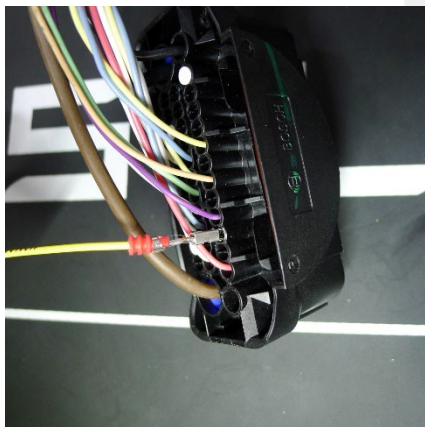


Figure 23

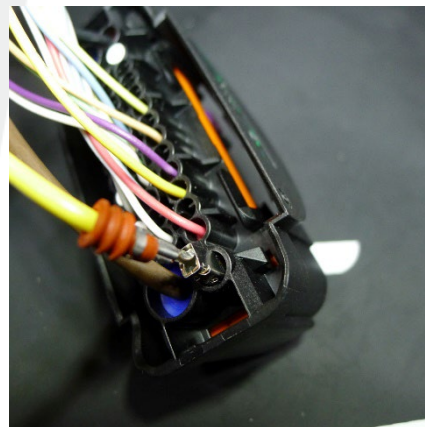


Figure 24

22. Perform a Push-Pull-Push check on each wire to make sure the wires are secure in the connector (Figure 25).

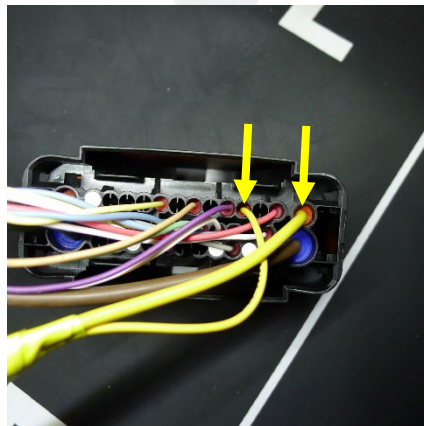


Figure 25

23. Use a pick to slide the large locking tab of connector X151 from “OPEN” to “CLOSE” (Figure 26).

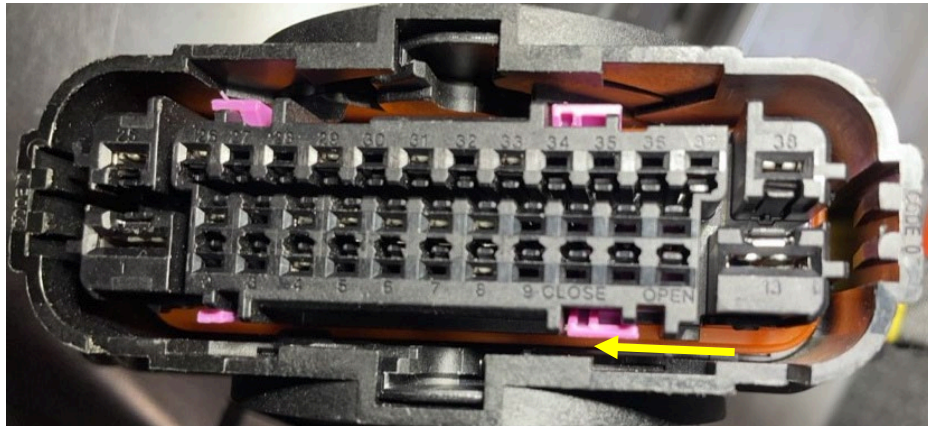


Figure 26

24. Bundle the white wire and excess jumper wire neatly into the electrical harness with yellow tape (Figure 27), and then wrap the harness with anti-abrasion tape (Figure 28).

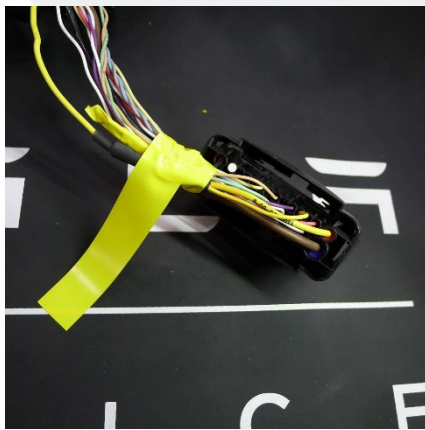


Figure 27

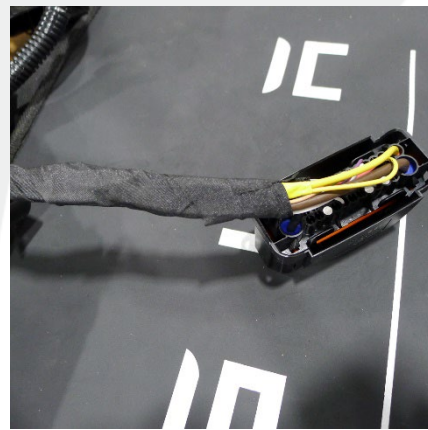


Figure 28

25. Attach the rear cover to connector X151, and then swing the rear cover close (Figure 29), engaging the tabs (x2) (Figure 30).



Figure 29

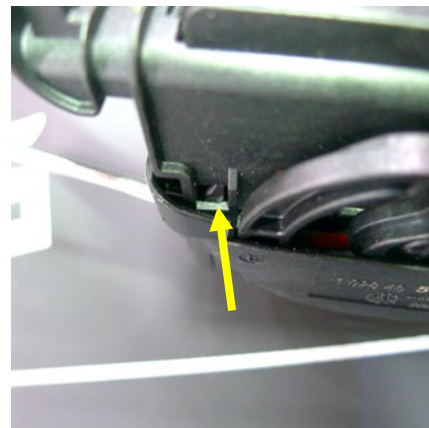


Figure 30

26. Fasten a small cable tie to the rear of connector X151 to secure the rear cover (Figure 31), and then trim the tie.



Figure 31

27. Fasten the clip that attaches the electrical harness to the HCU bracket (Figure 32).

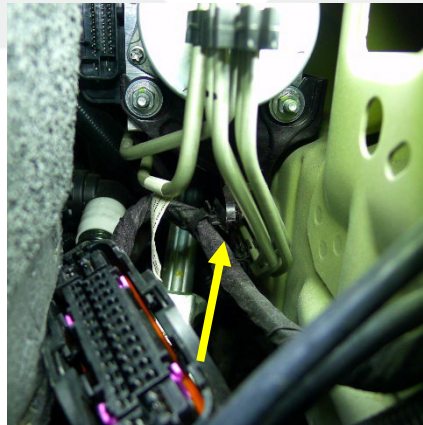


Figure 32

28. Attach connector X151 to the HCU (Figure 33), lower the lever, and then slide the red locking tab (Figure 34).

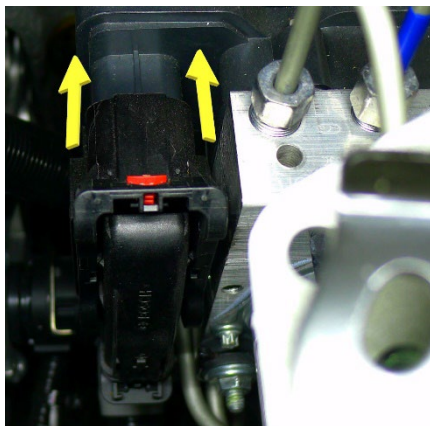


Figure 33

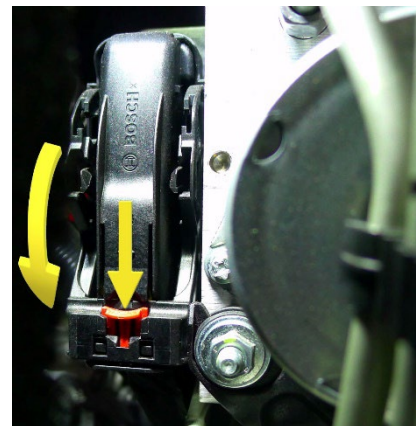


Figure 34

29. Return the shock tower brace back to position, install all bolts, and then tighten the forward bolts (x2) as shown (Figure 35) (torque 62 Nm).



Figure 35

30. Tighten the remaining bolts (x4) as shown (Figure 36) (torque 67 Nm).



Figure 36

31. Fasten the clips (x2) that attach the coolant hose to the LV battery (Figure 37).

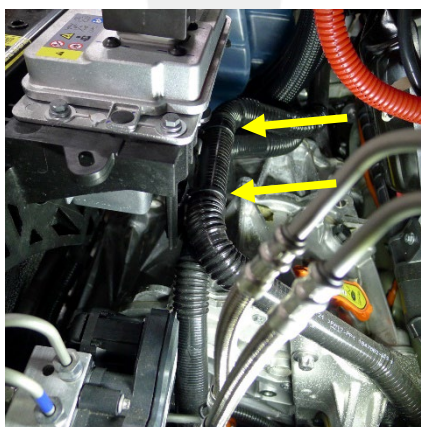


Figure 37

32. Fasten the clip that attaches the HV harness to the shock tower brace (Figure 38).



Figure 38

33. Connect LV power (refer to Service Manual procedure [17010410](#)).

34. Install the HEPA duct (refer to Service Manual procedure [18103802](#)).

35. Install the underhood storage unit (refer to Service Manual procedure [15240702](#)).