	esla, Inc. ervice Bulletin		Insulate A/C Low Pressure Pipe and Install Harness Connector Cover and Retrofit A/C Compressor Pipes With Support Bracket	
SB-21-18-007 R2 March 9, 2022		R2		
Classification			Section/Group	Mobile Service
Campaign Bulletin			18 - Thermal Management	Can Perform (where permitted)
<b>Model Year</b>	Model		Country/Region	Version
2021	Model 3, Model Y		China, Europe	All
	nodel year(s) listed are		approximation of the affected VIN list. Refer to the VIN/Bulletin T	racker or Customer/Vehicle profile to determine

Campaign Bulletin: 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 list.

This Service Document supersedes SB-21-18-007 R1, dated December 16, 2021. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

### Condition

Certain Giga Shanghai built Model 3 and Model Y vehicles might experience water condensation dripping from the A/C low pressure pipe onto the A/C compressor HV harness connector.

#### Correction

Insulate the low pressure pipe at the A/C compressor, and install the harness connector cover.

Correction Description	Correction	Time
Install Harness Connector Cover	S012118007	0.30
Insulate A/C Low Pressure Pipe and Install Harness Connector Cover	S022118007	0.35

	Part Number	Description	Quantity
Parts Required	China		4
	1735182-00-A	HVAC TUBE PROTECTOR	1
	1734193-00-A 1117669-00-A	SHROUD, HV, HEAT PUMP BOLT,5-LOBE,M6X19,[109],ZNNI,MAT,PTP,SEAL	1 2
	EMEA		
	1741410-00-A 1734193-00-A 1117669-00-A	FOAM INSULATION, 6MM, ERI, SELF-ADHESIVE SHROUD, HV, HEAT PUMP BOLT,5-LOBE,M6X19,[109],ZNNI,MAT,PTP,SEAL	1 1 2
If Necessary	EMEA		
	NBRTAPE50X3X15	NBR TAPE 50X3MM X15M	

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the <a href="Parts Catalog">Parts Catalog</a>.

**Shop Supplies** IPA Wipes Harness Tape

#### **Procedure**

Inspect the low pressure pipe (Figures 1 and 2 for China, and Figures 3 and 4 for Europe ) and the harness connector at the A/C compressor (Figures 3 and 4).





Figure 1- Foam Not Installed (China)

Figure 2- Foam Installed (China)





Figure 3- Foam Not Installed (Europe)

Figure 4- Foam Installed (Europe)





Figure 5 – Cover Not Installed

Figure 6 - Cover Installed

- If insulation foam is already installed, install the AC compressor harness connector cover (refer to section "Install the A/C Compressor Harness Connector Cover" in this document).
- If insulation foam is not installed, insulate the A/C compressor low pressure pipe, and install the harness connector cover (refer to section "Insulate A/C Compressor Low Pressure Pipe and Install Harness Connector Cover" in this document).

# Insulate A/C Compressor Low Pressure Pipe and Install Harness Connector Cover

- 1. Turn off the climate control.
- 2. Remove the underhood storage unit (refer to Service Manual procedure 15240702; Model 3, Model Y).
- 3. Perform the vehicle electrical isolation check (refer to Service Manual procedure 17010000; Model 3, Model Y).
- 4. Use an IPA wipe to clean the A/C low pressure pipe between the supermanifold and the A/C compressor (Figure 7).
  - NOTE: Allow 1 minute to dry.

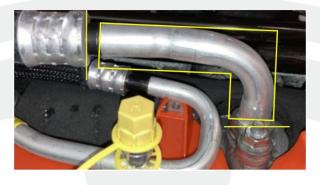


Figure 7

5. Release the clip that attaches the A/C compressor HV harness to the shock tower brace (Figure 8).



Figure 8

6. Align the edge of the foam insulation to the inside curve of the low pressure pipe, starting at the flange (Figure 9).



Figure 9

- 7. For China only: Wrap the foam insulation with tape, closing the gap between the edges of the foam (Figure 10).
  - NOTE: Make sure there is no gap between the edges of the foam, as it is crucial that the pipe is completely insulated (Figure 11).





Figure 10

Figure 11

- 8. For Europe only: Gently stretch the foam insulation as it applied along the inside curve of the low pressure pipe.
- 9. **For Europe only**: Peel off the remaining backing, and then wrap the foam insulation around the pipe, closing the gap (Figure 12).
  - NOTE: Make sure there is no gap between the edges of the foam, as it is crucial that the pipe is completely insulated (Figure 13).
  - TIP: To fully cover the pipe, it is optional to apply a piece of tape on top of the insulation foam.





Figure 12

Figure 13

10. Disconnect the HV harness connector from the A/C compressor (Figure 14 and 15).

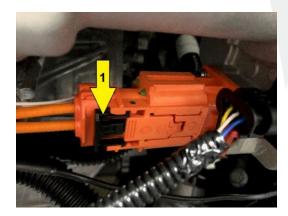




Figure 14

Figure 15

11. Install cover to A/C compressor harness connector (Figure 16).

NOTE: Make sure the ribs on the cover should not get twisted.



Figure 16

12. Carefully squeeze the cover around the A/C compressor so that it is securely attached, and then connect the HV harness to the A/C compressor.

NOTE: Perform push-pull-push test to make sure proper seating, and make sure to engage the locking tab (Figure 17).

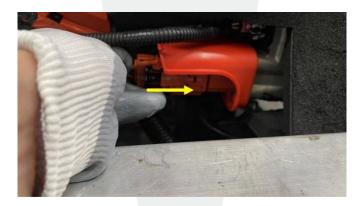


Figure 17

- 13. Install the clip that attaches the A/C compressor HV harness to the shock tower brace.
- 14. Install the 2nd row seat cushion (refer to Service Manual procedure 13051002; Model 3, Model Y).
- 15. Connect 12V negative terminal (refer to Service Manual procedure 17010200; Model 3, Model Y).
- 16. Install the underhood storage unit (refer to Service Manual procedure 15240702; Model 3, Model Y).
- 17. Move the front seats back to their original position.

## Install the A/C Compressor Harness Connector Cover

- 1. Remove the underhood storage unit (refer to Service Manual procedure 15240702; Model 3, Model Y).
- 2. Perform the vehicle electrical isolation check (refer to Service Manual procedure 17010000; Model 3, Model Y).
- 3. Disconnect the HV harness connector from AC compressor (Figure 18 and 19).

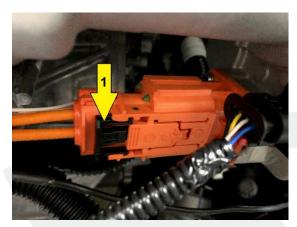




Figure 18

Figure 19

- 4. Install cover to A/C compressor harness connector (Figure 20).
  - NOTE: Make sure the ribs on the cover should not get twisted.



Figure 20

- 5. Carefully squeeze the cover around the A/C compressor so that it is securely attached, and then connect the HV harness to the A/C compressor (Figure 21).
  - NOTE: Perform push-pull-push test to make sure proper seating.

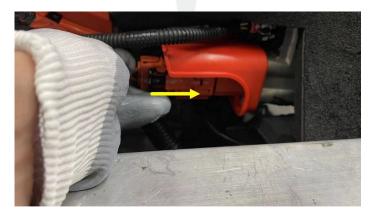


Figure 21

- 6. Install the 2nd row seat cushion (refer to Service Manual procedure 13051002; Model 3, Model Y).
- 7. Connect 12V negative terminal (refer to Service Manual procedure 17010200; Model 3, Model Y).
- 8. Install the underhood storage unit (refer to Service Manual procedure 15240702; Model 3, Model Y).
- 9. Move the front seats back to their original position.

