



**PROTERRA**



# TECHNICAL SERVICE BULLETIN

<b>ISSUE DATE:</b>	9/8/2021
<b>SERVICE BULLETIN SUBJECT:</b>	Rooftop Coolant Hose Retrofit
<b>VINs or MODELS AFFECTED:</b>	Service Specified Buses
<b>COMPLETE BY:</b>	Next Service Opportunity
<b>SERVICE BULLETIN #:</b>	SC-21-123
<b>LABOR OPERATION CODE:</b>	CC57Z

**NOTICE! It is expected that this process will require 1 hour per bus. Please schedule appropriately to minimize vehicle downtime.**

## ROOFTOP COOLANT HOSE RETROFIT

### Description

This procedure updates a rooftop coolant hose to a more robust version.

## Tools/Parts Required

### Tools and Supplies Required:

- Hose Clamp Pliers
- Ratchet
- 4mm Socket
- Catch Pan
- Funnel
- Shop Towels

### Kit Parts Required:

- 059301 Retrofit Kit, Roof Top Coolant Hoses (Consisting of)
  - 038666 HOSE, COOLANT, BELLOWSFLEX, SAE J2006R2, Ø1.00 ID 17 IN
  - 044137 CLAMP, WORM DRIVE, 21 to 38mm OD HOSE 2 EA

## Procedure:

1. Complete the Proterra approved Lockout/Tagout procedure to make the bus safe for work.
2. Follow all the Proterra and Transit Agency specific safety requirements for safely working on top of a bus.
3. Place the Catch Pan below the hose shown in the following photograph. This hose connects the top of the 3-Fan Radiator and the rearmost Expansion tank.

**Note:** Ensure that the Catch Pan is clean. We will be reusing the coolant.



Hose to be  
Removed

4. Using Hose Clamp Pliers, disconnect the top end of the hose shown in the previous photograph.
5. Twist the top end of the removed hose so that the coolant from the Expansion Tank can drain into the Catch Pan.
6. Allow all the Coolant in the Expansion Tank to drain into the Catch Pan.
7. Using Hose Clamp Pliers, remove the clamp from the bottom end of the Hose.
8. Remove the Hose and discard it along with the removed Hose Clamps.
9. Place each of the Worm Drive Hose Clamps (044137) onto the new Hose (038666).
10. Connect the new Hose (038666) to the 3-Fan Radiator and the Expansion Tank.

11. Using a 4mm Ratchet/Socket, secure the Hose (038666) using the Worm Drive Hose Clamps (044137).
12. Remove the Cap from the Expansion Tank.
13. Using a Clean Funnel, return the coolant to the Expansion Tank from the Catch Pan.  
**Note:** If the coolant is contaminated, it must be replaced with new coolant.
14. Replace the Cap on the Expansion Tank.
15. Using Shop Towels, clean up any spilled coolant.
16. Remove the Lockout/Tagout devices and return the bus to service.