ISSUE DATE:	11-2-2020
SERVICE BULLETIN SUBJECT:	800 Volt Rear Coolant Hose Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-20-155
Labor Operation Code:	CC45Z

NOTICE! It is expected that this process will require 2 hours per bus. Please schedule appropriately to minimize vehicle downtime.

800 VOLT REAR COOLANT HOSE RETROFIT

Retrofit Description:

This updates the rear coolant hose from a flexible hose to a formed hosed for improved reliability.

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West Coast Manufacturing: 383 Cheryl Lane, City of Industry, CA 91789

Tools/Parts Required

Tools and Supplies Required:

- Side Cutting Pliers
- Catch Pan
- Flat Blade Screwdriver
- 50-50 Ethelene Glycol Coolant (Obtain Locally) 7 Gallons

Kit Parts Required:

- 055917 KIT, COOLANT HOSE, DCDC TO VFD (Consisting of)
  - 048059 HOSE, MOLDED 1 EA
  - 044137 CLAMP, CONSTANT TENSION WORM DRIVE 2 EA
  - 012138 CABLE TIE, HEAVY DUTY .5WIDE 9.1" BLACK 2 EA
  - 020657 CABLE TIE .18 X 12"" 3 EA
  - 045827 INSULATION SLEEVE, PIPE WRAP ,1.5", AUX HEAT 7 IN

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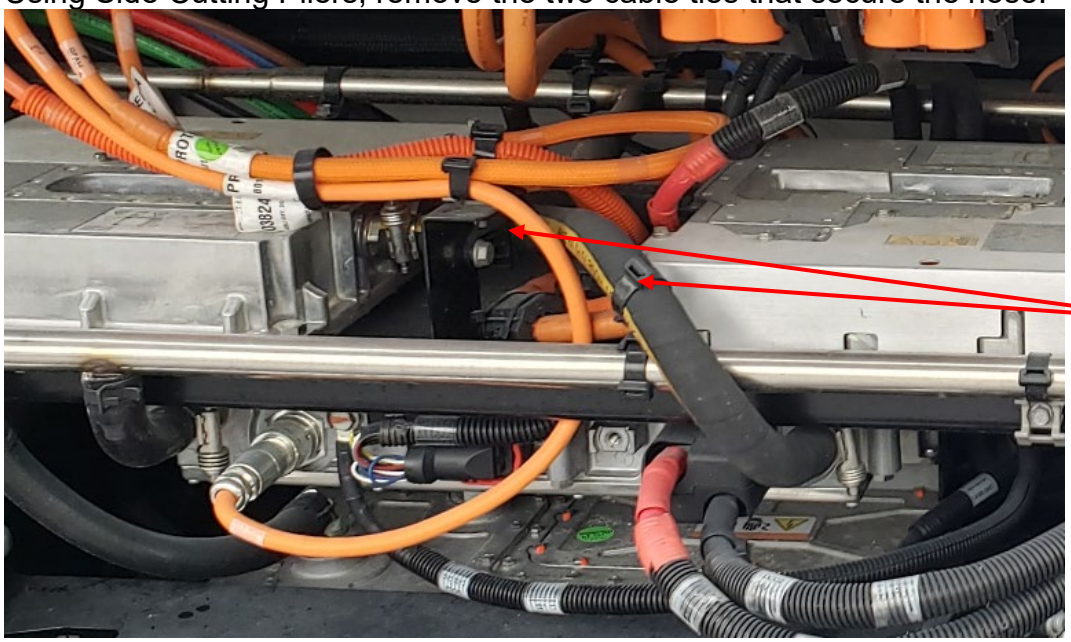
Procedure:

1. Complete the Proterra approved Lockout/Tagout procedure to make the bus safe for work.

2. Using a Catch Pan, drain the power electronics coolant loop so that the rear coolant hose may be removed for replacement.

3. Using Side Cutting Pliers, remove the two cable ties that secure the hose.



4. Using a Flat Blade Screwdriver, remove the Hose Clamps and the Hose from the bus.

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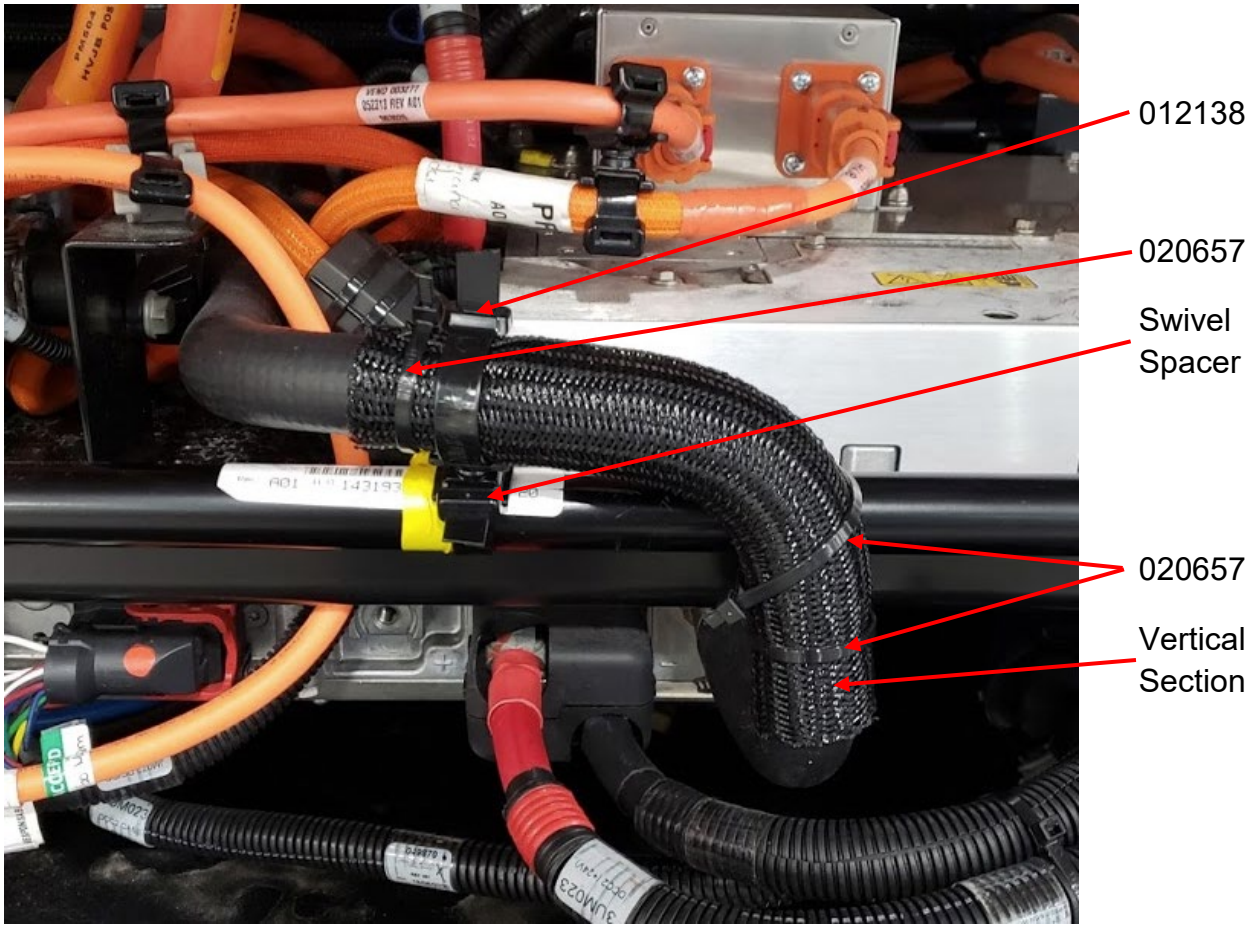
5. Wrap the Molded Hose (048059) with Pipe Wrap (045827).

6. Using a Flat Blade Screwdriver, install the Hose (048059) and Pipe Wrap (045827) in place of the original hose using the Hose Clamps that were removed earlier. Using Cable Ties (020657), secure the Pipe Wrap to the Hose.
   Note: The Streetside section of the hose must be vertical.



7. Using Electrical Tape, wrap the steel tube even with the Streetside end of the Lenze. Using Cable Ties (012138), secure the Cable Tie Mount and Swivel Spacer to the Hose and steel tube on the electrical tape as shown in the previous photograph. Secure the Hose to the steel tube with a Cable Tie leaving a small gap between the Hose and steel tube.

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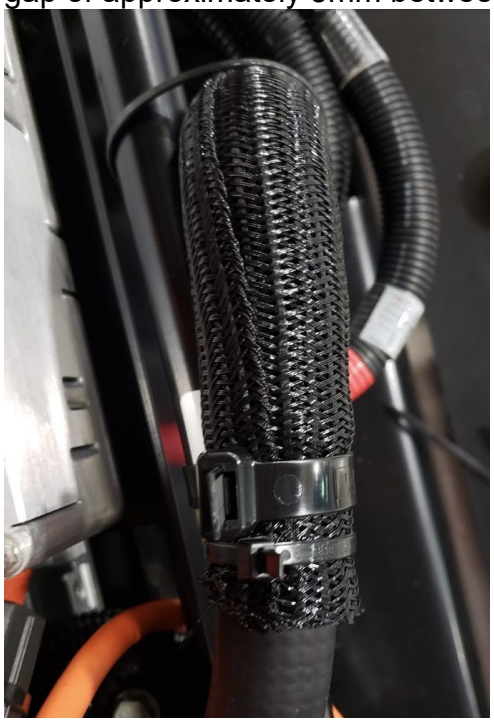
8. The following photographs show top and Curbside views of the completed Hose (048059) installation.
   Note: Do not overtighten the Cable Tie (020657) shown in the second photograph. Leave a gap of approximately 5mm between the Hose and steel tube.



9. Remove the Lockout/Tagout devices.

10. Refill the Power Electronics Coolant Loop using the fill port at the rear of the bus.

11. Remove the Lockout/Tagout devices and return the bus to service after verifying that there are no coolant leaks.

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