



PROTERRA



TECHNICAL SERVICE BULLETIN

ISSUE DATE:	12-14-2021
SERVICE BULLETIN SUBJECT:	35 Foot ZX5 Radiator Fan Harness Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-21-178
Labor Operation Code:	VD58Z

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

35 FOOT ZX5 RADIATOR FAN HARNESS RETROFIT

Retrofit Description:

This procedure describes updating the radiator fan harness connectors to prevent water intrusion.



Tools/Parts Required

Tools and Supplies Required:

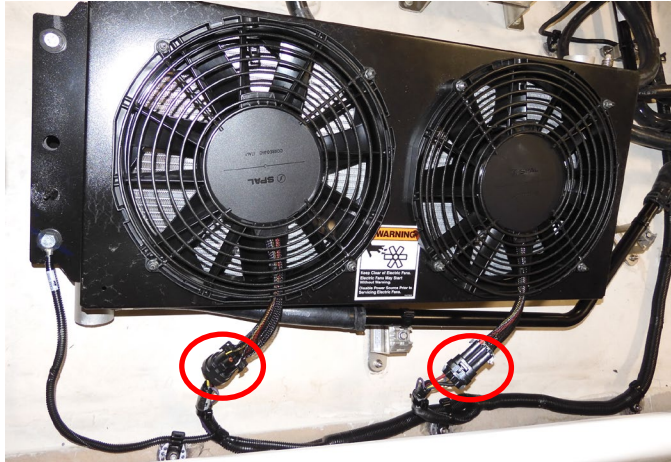
- Pin Extractor Tool
- Side Cutting Pliers
- Crimping Tool

Parts Required:

- 060016 SERVICE KIT: RADIATOR FAN HARNESS CONNECTORS (Consisting of)
 - 148-6724 CAVSEAL,L,MP630,CD 1.65-2.4,OD 10.35,TAN 2 EA
 - 148-6702 TERMINAL, 630 Series, Tin Plating, Female, 4.00 - 6.00 mm2 4 EA
 - 148-6723 TERMINAL, 280 Series, Tin Plating, Female, 0.50 - 1.00 mm2 4 EA
 - 134-6607 TERMINAL, Female Unsealed, Cable Range 0.50 - 0.80 mm2 2 EA
 - 116-6196 Blue Individual Loose Round 1 Way Cable Cavity Seal 4 EA
 - 148-6725 CAVSEAL,M/P,MP280,CD 1.6-2.15,OD 7.25,VIO 4 EA

Procedure:

1. Perform the Proterra approved Lockout/Tagout process to make the bus safe for work.
2. Follow all the Proterra and Transit Agency specific safety rules to safely work on top of the bus.
3. Working on the rooftop of the bus, locate the radiator fan connectors shown circled in red in the following photograph.



4. Disconnect both connectors from the bus harness.
5. Using a Pin Extractor Tool, remove the terminals from Cavities A, C, D, E, and F on connectors PR058 and PR059. These connectors are on the bus harness. Do not modify the connectors on the Radiator.
6. Using Side Cutting Pliers, remove the crimped-on terminals and seals from the removed wires.
7. Using the following table as a guide, install the appropriate Seals and Terminals on the wires of both Connectors using a Crimping Tool. This chart applies to both PR058 and PR059 Connectors.

Cavity	Wire Color	Terminal	Seal
A	Red	148-6702	116-6196
C	Black	148-6702	116-6196
D	Yellow	148-6723	148-6725
E	Black	134-6607	148-6724
F	Blue	148-6723	148-6725

8. Install the wires with the crimped-on Terminals and Seals into each Connector.
9. Reconnect each Connector to the Radiators.
10. Safely exit the rooftop of the bus.
11. Remove the Lockout/Tagout devices and return the bus to service.