



PROTERRA



TECHNICAL SERVICE BULLETIN

ISSUE DATE:	8/17/2021
SERVICE BULLETIN SUBJECT:	800 Volt Wiper Switch Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-21-112
LABOR OPERATION CODE:	WW42Z

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

800 VOLT WIPER SWITCH RETROFIT

Description

This procedure upgrades the wiper switch to improve reliability.



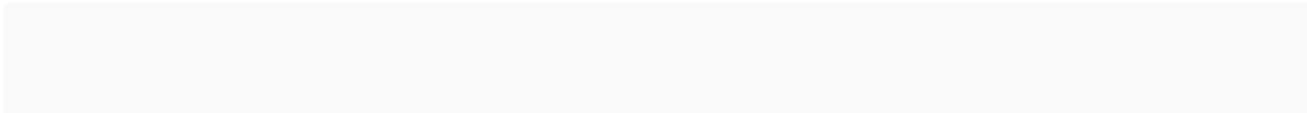
Tools/Parts Required

Tools and Supplies Required:

- T-30 Torx Driver
- Side Cutting Pliers
- Wire Strippers
- Crimping Tool
- Heat Gun

Parts Required:

• 001300	TERMINAL, SIZE 16, PIN, 14 AWG	6 EA
• 001295	CONNECTOR, RECEPTACLE, 6 POSITION, DEUTSCH #	1 EA
• 001356	WEDGELOCK, 6 POSITION, FOR DT04-6P RECEPTACLE	1 EA
• 133-4786	SWITCH, WINDSHIELD WIPERS	1 EA
• 008294	HEAT SHRINK, DOUBLE WALL, ADHESIVE, 1/4 4' STICK	6 IN



Procedure:

1. Complete the Proterra approved Lockout/Tagout procedure to make the bus safe for work.
2. Using Side Cutting Pliers, cut the wires as close to the connectors shown in the following photograph to remove the connectors from the new Wiper Switch (133-4788).



3. Using Wire Strippers, strip each wire to accept a Terminal (001300).
4. Using a Crimping Tool, install a Terminal (001300) on the Blue, White, Yellow, Red, Brown, and Black Wires.
5. Install the Terminal (001300) on the Blue Wire into Cavity 1 of the new Connector (001295).
6. Install the Terminal (001300) on the White Wire into Cavity 2 of the new Connector (001295).
7. Install the Terminal (001300) on the Yellow Wire into Cavity 3 of the new Connector (001295).
8. Install the Terminal (001300) on the Red Wire into Cavity 5 of the new Connector (001295).
9. Install the Terminal (001300) on the Brown Wire into Cavity 6 of the new Connector (001295).
10. Install the Terminal (001300) on the Black Wire into Cavity 4 of the new Connector (001295).
11. Secure the Terminals (001300) into the Connector (001295) using a Wedgelock (001356).
12. Using a Heat Gun, seal the end of each unused wire with Heat Shrink Tubing (008294).

13. Using a T-30 Torx Driver, remove the switch panel shown in the following photograph.



14. Remove the existing Wiper Switch from the panel and disconnect it from the harness.
15. Install the new Wiper Switch (133-4788) in the panel and connect it to then harness.
16. Using a T-30 Torx Driver, reinstall the panel into the dash.
17. Remove the Lockout/Tagout devices and return the bus to service.