



PROTERRA



TECHNICAL SERVICE BULLETIN

ISSUE DATE:	4-5-2022
SERVICE BULLETIN SUBJECT:	Five to Four Position Master Switch Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-22-42
LABOR OPERATION CODE:	N/A

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

FIVE TO FOUR POSITION MASTER SWITCH RETROFIT

Retrofit Description:

This procedure describes the process of replacing a Five Position Master Switch with a Four Position Master Switch if the Five Position Master Switch fails and is not available.

Tools/Parts Required

Tools and Supplies Required:

- T-30 Torx Driver
- Various Small Tools to Replace Switches
- Laptop Computer
- Nexiq USB-Link 2

Kit Parts Required:

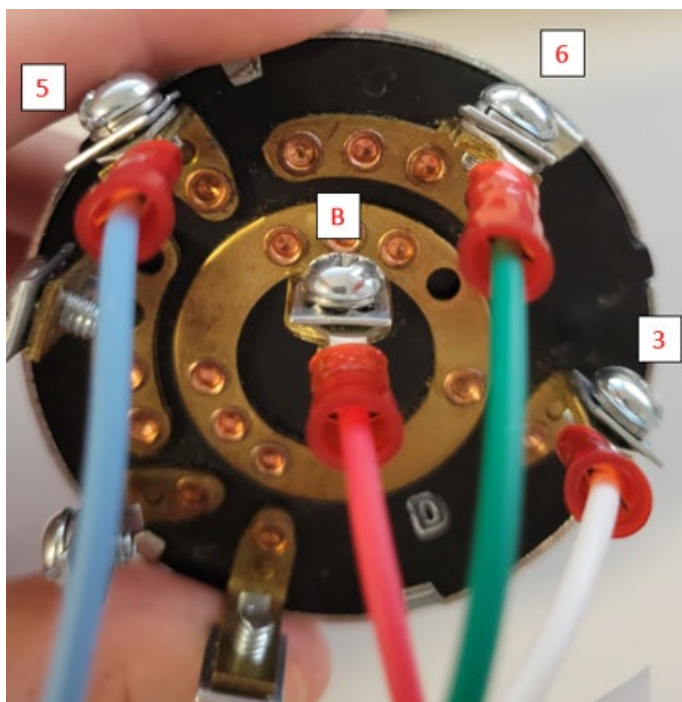
- 060208 SERVICE KIT: SS DASH MASTER SWITCH AND B START (Consisting of)
 - 014416 MASTER SWITCH 1 EA
 - 170-2501 KNOB, MASTER SWITCH 1 EA
 - 016637 SWITCH, START BUTTON, EUS-S1647 1 EA
 - 150-1817 HARNESS, JUMPER, MASTER SW AND START 1 EA
 - 016919 WASHER, SPRING LOCK, SS, M4 4 EA
 - 150-1840 PLATE, SWITCH, DASH, SS 1 EA

Procedure

1. Complete the Proterra approved Lockout/Tagout procedure to make the vehicle safe for work.
2. Using a T-30 Torx Driver, remove the Switch Panel shown in the red box in the following illustration from the dash.



3. Using a #2 Phillips Screwdriver, connect the four ring terminals on the Jumper Harness (**150-1817**) as shown in the following photograph using Spring Lock Washers (016969) directly between the screw head and the provided Star Washer. The Ring Terminals must be located between the head of the screw and the brass contacts on the Switch.



4. Unplug the original Five Position Master Switch from **PD050** on the SSDASH Harness.
5. Connect **JD050** on the new Jumper Harness (**150-1817**) into **PD050** on the SSDASH Harness.
6. Take photographs and/or notes of all the switch wiring and positions so that they may be rewired and reinstalled correctly later.
7. Remove all the Switches from the original Switch Panel. The original Master Switch may be left in the Switch Panel since it will not be reused.
8. Reinstall all the removed Switches into the new Switch Panel (**150-18400**).
9. Using the photographs and/or notes taken earlier, reconnect the switches that were installed in the new Switch Panel (**150-18400**).
10. Install the new Start Button (**016637**) into the Switch Panel (150-18400).
11. Connect the new Start Button (**016637**) to JD159 on the jumper Harness (150-1817).
12. Install the new Master Switch (**014416**) into the new Switch Panel (150-18400) using the provided hardware.
13. Install the Master Switch Knob (**170-2501**) onto the new Master Switch (014416) and tighten the screws.



14. Remove the Lockout/Tagout devices and return the bus to service.