



PROTERRA



TECHNICAL SERVICE BULLETIN

ISSUE DATE:	6-15-2021
SERVICE BULLETIN SUBJECT:	800 Volt ZX5 Horn Relay Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-21-87
LABOR OPERATION CODE:	DE43Z

NOTICE! It is expected that this process will require 1/2 hour per bus. Please schedule appropriately to minimize vehicle downtime.

800 VOLT ZX5 HORN RELAY RETROFIT

Retrofit Description:

This procedure updates the horn relay and circuit breaker to more robust versions.

Tools/Parts Required

Tools and Supplies Required:

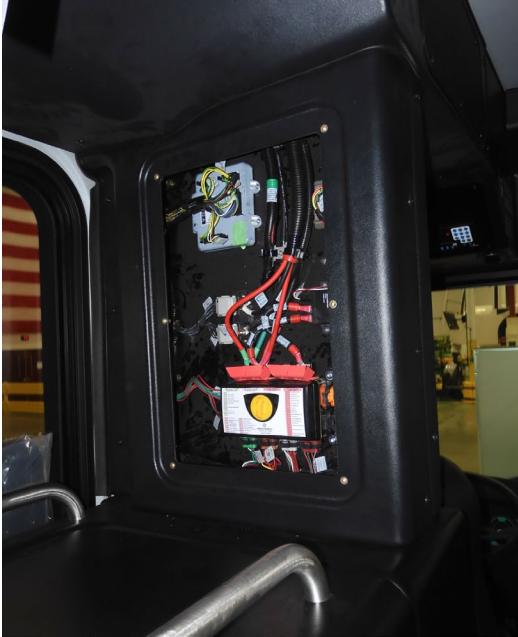
- T-30 Torx Driver

Kit Parts Required:

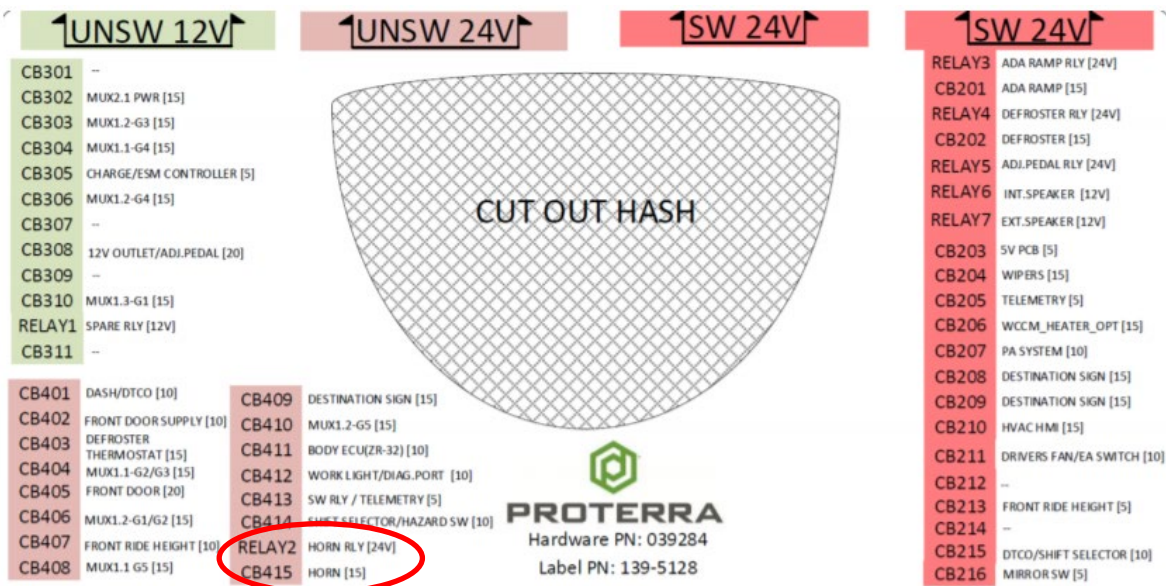
- 058298 RETROFIT KIT, 40' HERON HORN RELAY/FUSE REPLACE (Consisting of)
 - 139-5128 LABEL, ELECTRICAL CENTER, ECAB 1 EA
 - 013529 CIRCUIT BREAKER, COOPER BUSSMAN, 15AMP 1 EA
 - 128-2640 RELAY, ULTRA MICRO, 24V DC COIL, 30A CONTACT 1 EA

Procedure

1. Complete the Proterra approved Lockout/Tagout procedure to make the bus safe for work.
2. Using a T-30 Torx Driver, remove the ECAB Panel as shown in the following photograph.



3. Remove the VEC cover.
4. Using the new VEC Label as a guide, locate RELAY2 and CB415. These locations are shown circled in red in the following illustration.
5. Using the Yellow Tool provided inside the VEC, replace RELAY2 (**128-2640**) and CB415 (**013529**) with the new ones from the kit.
6. Remove the installed Label from the VEC.



7. Peel the backing from the new Label (**139-5128**) and install it on the VEC Cover.
8. Reinstall the VEC Cover.
9. Using a T-30 Torx Driver, reinstall the ECAB Panel that was removed earlier.
10. Remove the Lockout/Tagout devices and return the bus to service.