



Solenoid Diode Insertion: 18V-019

DATE: Feb 27, 2018
TO: E-ONE Customers and Dealers
FROM: Kevin Kearns, Customer Support Manager
SUBJECT: **Starter Solenoid Diode Insertion on ISL, L9, X15 Cummins Engines**

Dear E-ONE Customers and Dealers,

E-One has identified a repair for possible intermittent no-start on ISL, L9, and X15 engines.

Affected Products: E-One Cyclone 2, Quest, or Typhoon apparatus manufactured with Cummins ISL's, L9's and ISX-15's from 2013 to present.

Summary: Some apparatus may experience an intermittent no-start condition.

Remedy: Install relay/diode kit Part# 1081125. See instructions attached.



Repair Procedure:

Diode Installation on the Starter Solenoid:

Add the diode's yellow wire to the solenoid terminal containing the wire labeled "Neutral Start". Add the diode's black wire to the terminal containing the wire labeled "Engine Start" as shown in **Figure 1**, below.



Figure 1: Diode Installation.

Relay Installation:

The relay replacement will require the removal of the Engine Interface Module (EIM) cover(s) located in the officer's stepwell. Raise the cab by following the proper cab tilting procedure.

Step 1:

Remove the four #10 screws and two #10 nuts as shown in **Figure 2**, below.

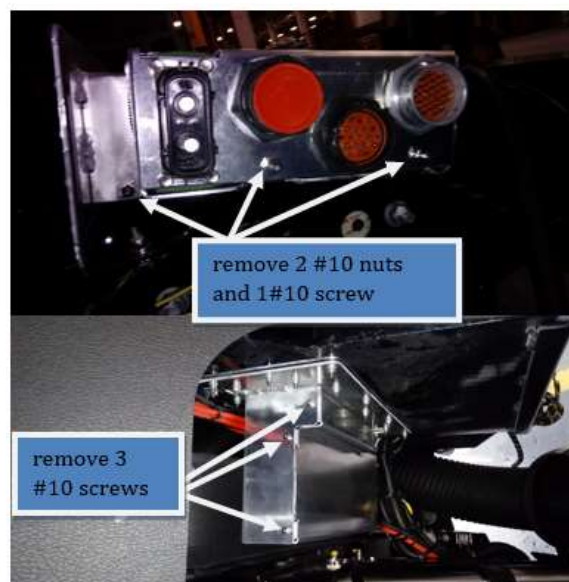


Figure 2: Cover Removal.



Step 2:

After the removal of the outer cover, remove the six Allen head screws from the EIM as shown in **Figure 3**.

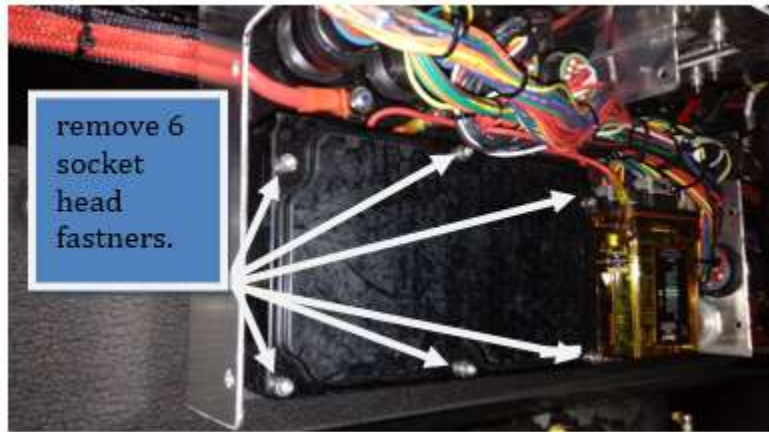


Figure 3: EIM Cover Removal

Step 3:

Replace K15 relay with new relay from the kit. See **Figure 4**.



Figure 4: Relay Replacement

Step 4:

Reinstall covers and verify apparatus starts.

If you have any questions, please contact me at (352) 861-3361.

Regards,

Kevin Kearns
Customer Support Manager