

SERVICE BULLETIN

Original Issue Date: 2/10

Model: 10/13/15ERG, 10/13/15EGD, 9/11EFGD, 15/30RES, and 15/30RYG

Market: Mobile, Marine, Residential, and Commercial

Subject: Harness Kit GM64348

Introduction

This service bulletin addresses units experiencing drained batteries when not using a battery charger. The ECM consumes power whenever the battery is connected creating a battery draw that reduces the ability to start the generator. For applications not using a battery charger, install harness kit GM64348.

⚠ WARNING



**Accidental starting.
Can cause severe injury or death.**

Disconnect the battery cables before working on the generator set. Remove the negative (-) lead first when disconnecting the battery. Reconnect the negative (-) lead last when reconnecting the battery.

Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or connected equipment, disable the generator set as follows: (1) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

Service Procedure

1. Place the generator set master switch in the OFF position.
2. Disconnect the generator set engine starting battery, the negative (-) lead first.
3. Locate plug P10 (ECM 56-pin plug shown in Figure 1) and cut lead #222 near the P10 plug a minimum of 3 in. from the plug.

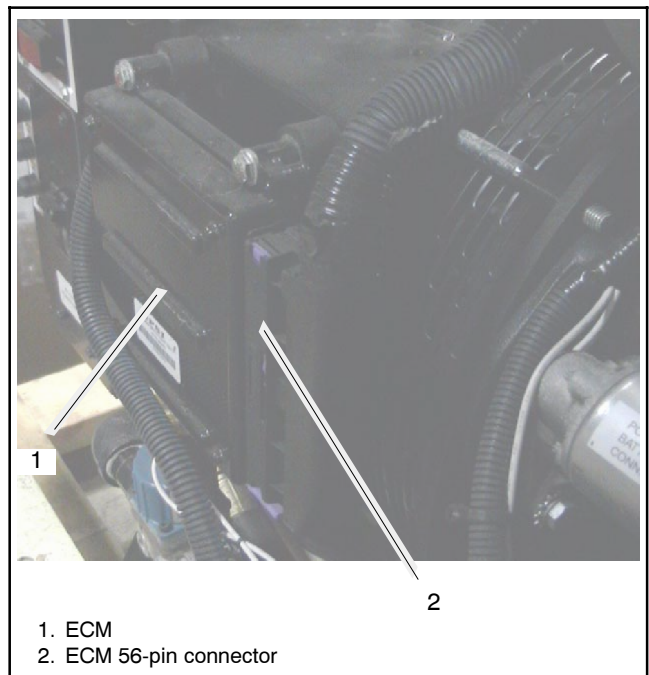


Figure 1 ECM and 56-Pin Connector

Routing	Service Manager	Sales Manager	Parts Manager	Technician No. 1	Technician No. 2	Technician No. 3	Return This to
Initial Here							

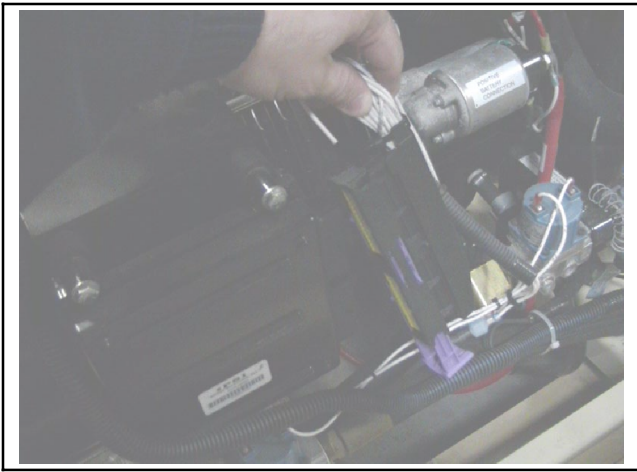


Figure 2 ECM 56-Pin Connector

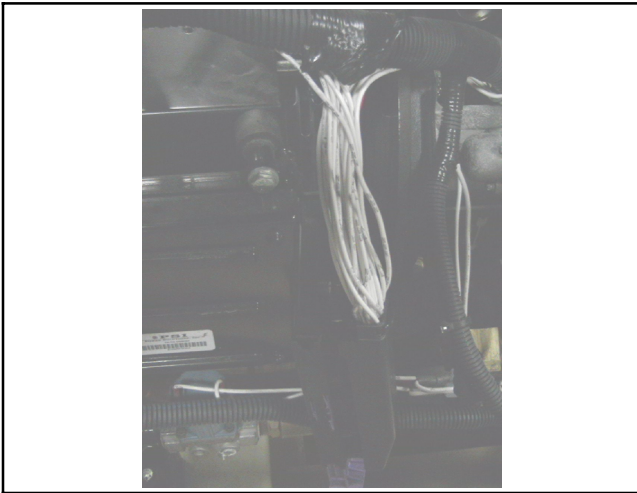


Figure 3 Plastic Conduit Removed from the Harness near the ECM 56-Pin Connector

4. Strip lead #222 from the P10 plug 3/8 in. and crimp into the connector on the new harness (GM64331). See Figure 4.

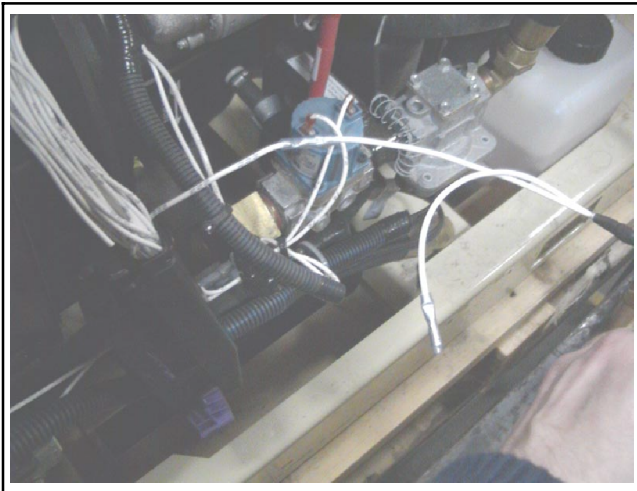


Figure 4 View of Lead #222 Stripped and Crimp Connected to GM64331 (Harness)

5. Tape the lead #222 left in the harness to prevent a short-circuit condition. See Figure 6.
6. Locate and cut lead #223 near the P10 plug a minimum of 3 in. from the plug.
7. Strip lead #223 from the P10 plug 3/8 in. and crimp into the connector on the new harness (GM64331). See Figure 5.

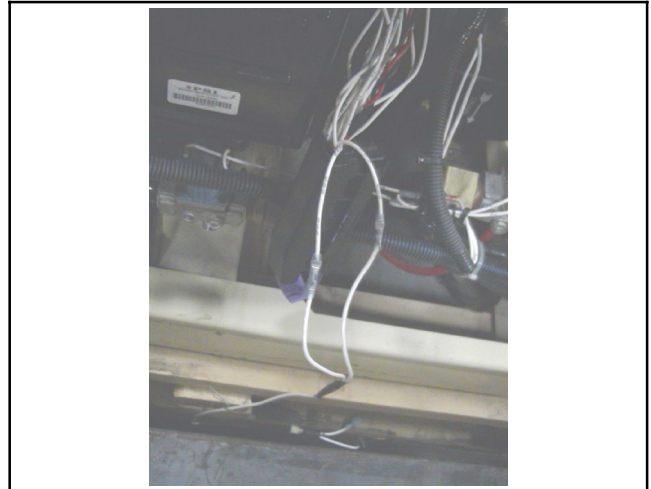


Figure 5 View of Lead #223 Stripped and Crimp Connected to GM64331 (Harness)

8. Tape the lead #223 left in the harness to prevent a short-circuit condition. See Figure 6.

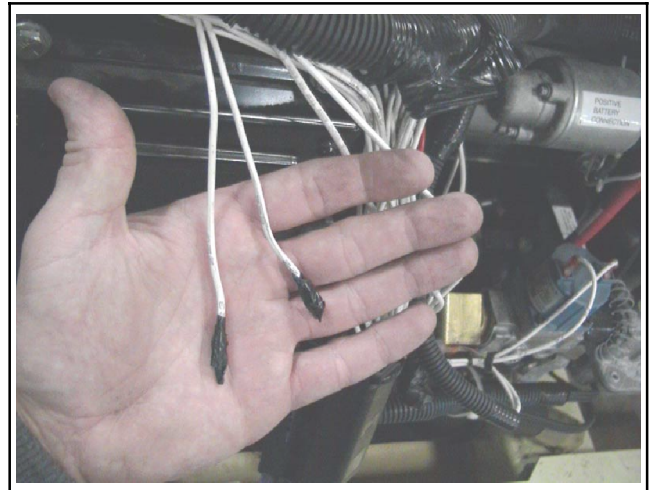


Figure 6 View of Leads #222 and #223 Taped to Prevent Short Circuit

9. Locate fuse F7 inside the junction box and disconnect lead F7A from fuse F7.



Figure 7 Junction Box

10. Remove the screws that attach the cover to the junction box. See Figure 8.



Figure 8 Junction Box Cover Screws



Figure 9 Junction Box Shown with Cover Removed

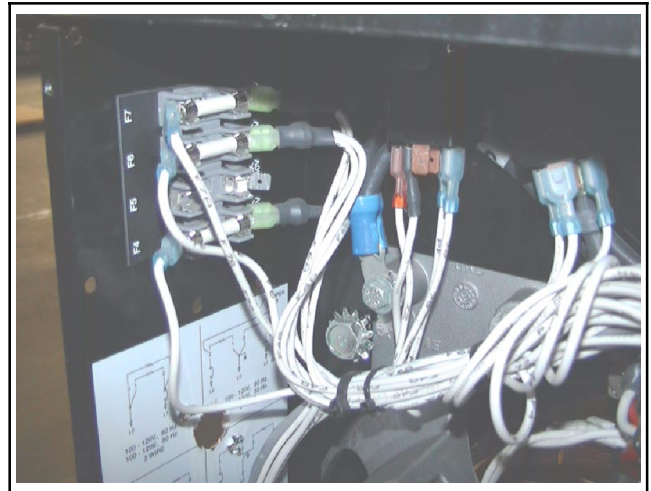


Figure 10 Fuse Block Containing Fuse F7 (Inside Junction Box)

11. Remove lead F7A from fuse F7. See Figure 11.

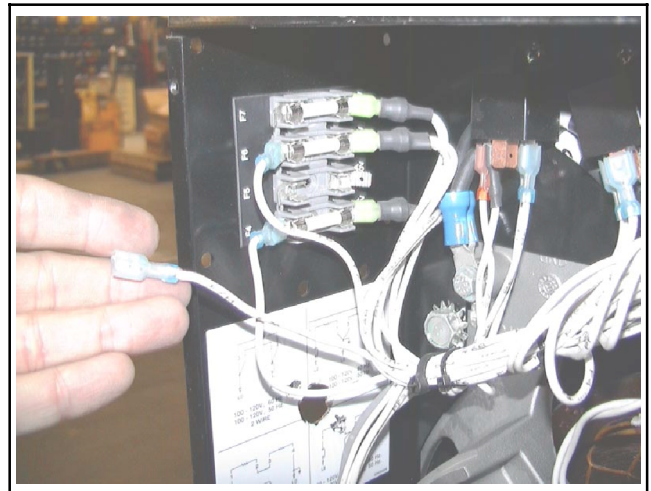


Figure 11 Lead F7A Removed from Fuse F7

12. Feed the harness (GM64331) through the plastic conduit from the ECM 56-pin connector and into the junction box. See Figure 12.

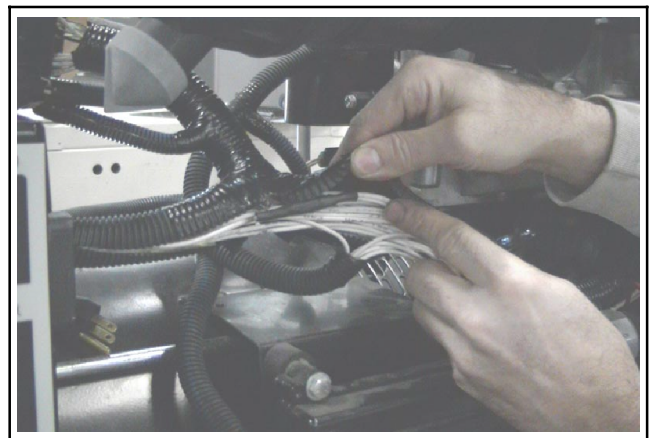


Figure 12 Feed the Harness (GM64331) Into the Junction Box

13. Connect lead F7A from the existing harness to the new harness (GM64331) as shown in Figure 13 and Figure 19.

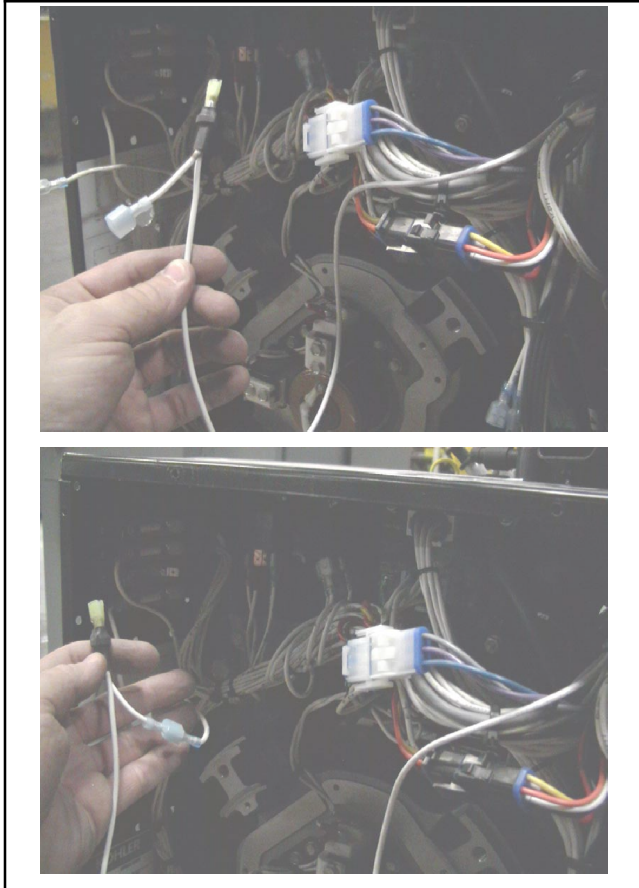


Figure 13 Connect Lead F7A

14. Connect the remaining terminal from the new harness (GM64331) to fuse F7. See Figure 14 and Figure 19.

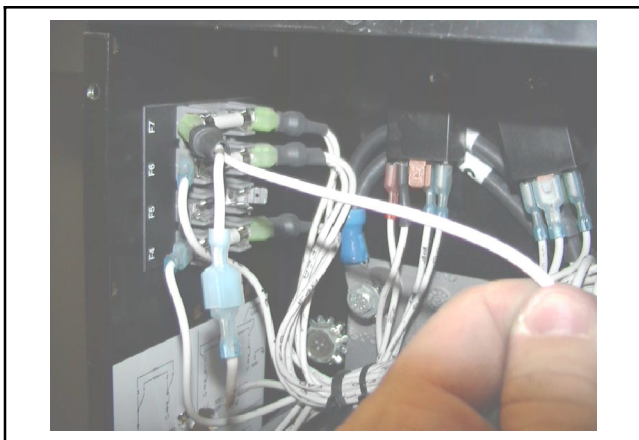


Figure 14 Connect the Remaining Terminal

15. Use plastic cable ties to secure the wiring harness (GM64331) to the other wires to reduce the risk of damage by rotating parts. See Figure 15.

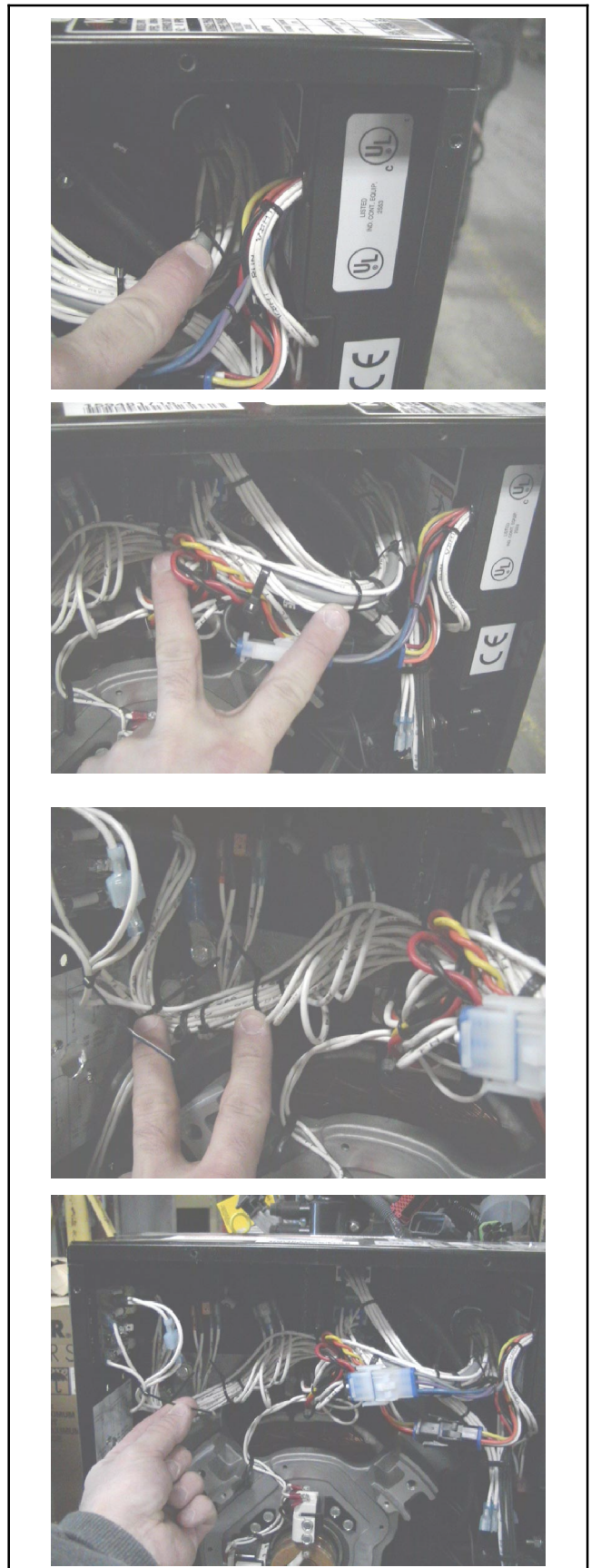


Figure 15 Use Cable Ties as Necessary

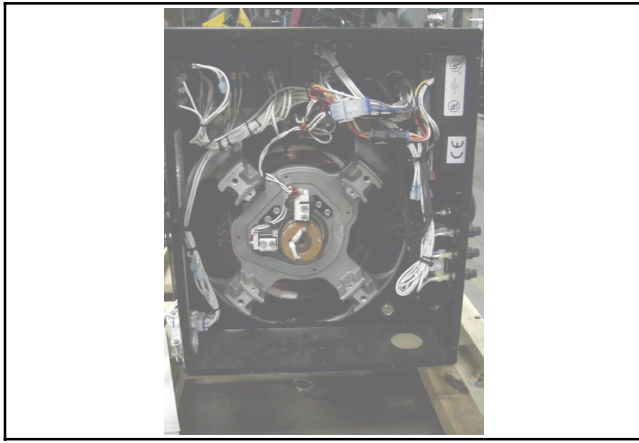


Figure 16 View After Wiring Harness (GM64331) Installed and Secured with Cable Ties

16. Tape the plastic conduit of the engine wiring harness from the ECM 56-pin connector. See Figure 17.

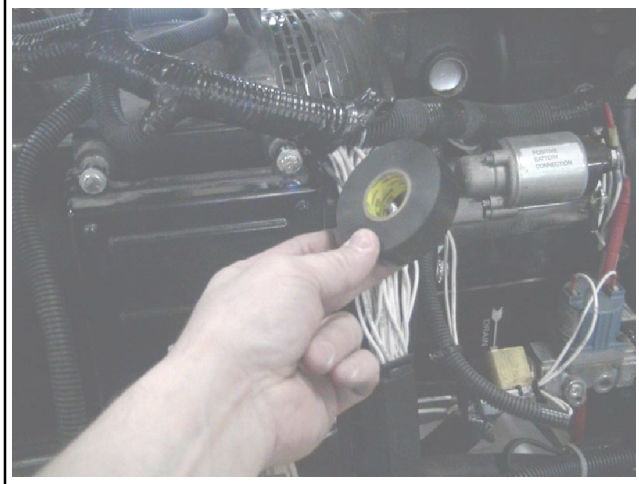


Figure 17 Tape Conduit

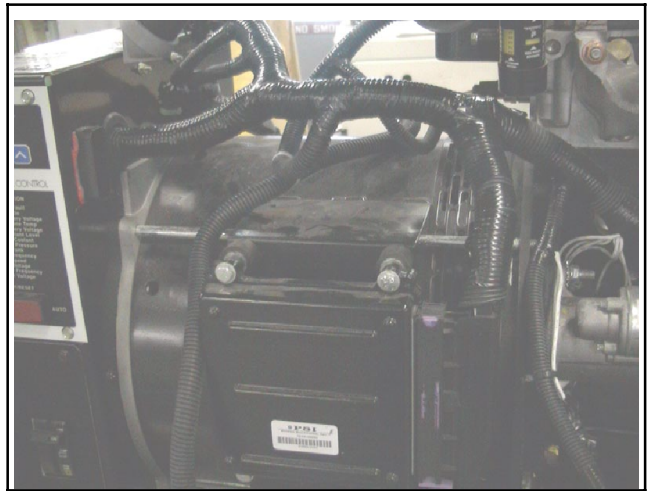


Figure 18 View of Wiring Harness After Installation is Complete

17. See Figure 18 and Figure 20 for wiring after kit installation.
18. Check that the generator master switch is in the OFF position.
19. Reconnect the generator set engine starting battery, negative (-) lead last.

Warranty Claim Procedure

For units still covered under warranty, file a warranty claim. Normal warranty policies for travel time and mileage apply:

- Use part number GM50547 as the primary failed part.
- Use flat rate #5462 for mobile product, #5463 for marine product, and #5464 for residential product.
- Do not exceed 30 minutes as the flat rate time.

Note: File one claim for each generator set.

Contact the Generator Service Department with any questions.

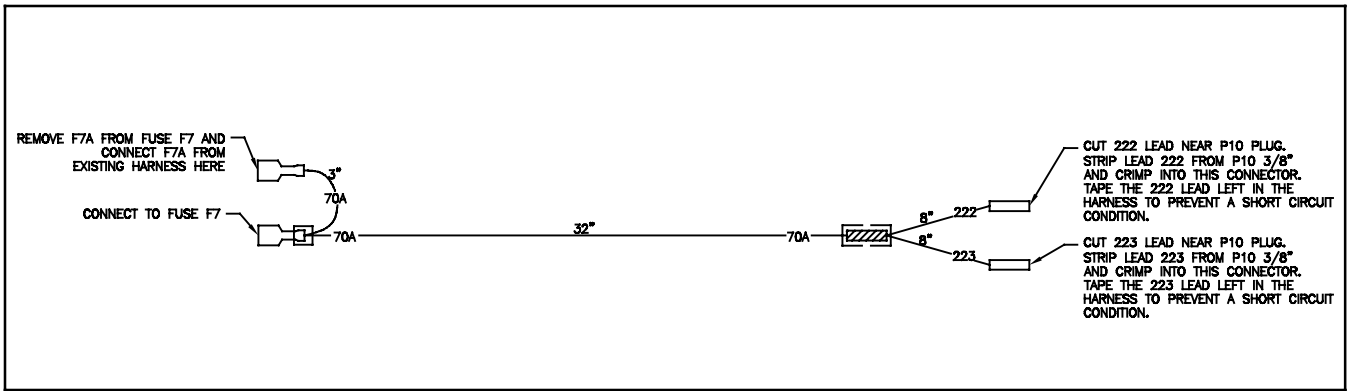


Figure 19 Harness GM64331 Instructions

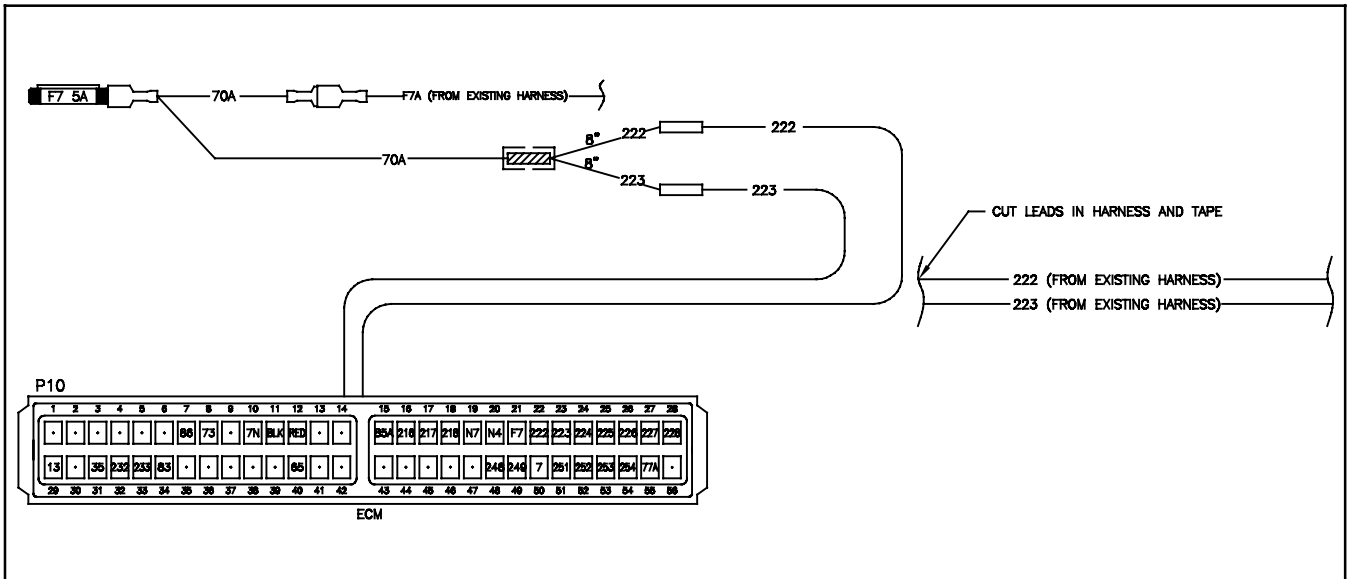


Figure 20 Wiring After Harness Installation

Notes

Notes