

J-1939 CAN2 ENGINE SUBNET CABLE OVERLAY INSTALLATION

Prevost vehicles

MODEL YEAR(S) AND VEHICLES INVOLVED

Model	VIN										
NYCT X3-45 Commuter coaches Model Year : 2012	 From 2PCG33495CC73<u>5053</u> up to 2PCG33495CC73<u>5232</u> incl. Except the following vehicles: <table> <tr> <td>2PCG33491CC735146</td> <td>2PCG3349XCC735176</td> </tr> <tr> <td>2PCG33497CC735183</td> <td>2PCG33496CC735207</td> </tr> <tr> <td>2PCG33498CC735208</td> <td>2PCG33492CC735219</td> </tr> <tr> <td>2PCG33494CC735223</td> <td>2PCG3349XCC735226</td> </tr> <tr> <td>2PCG33493CC735228</td> <td></td> </tr> </table>	2PCG33491CC735146	2PCG3349XCC735176	2PCG33497CC735183	2PCG33496CC735207	2PCG33498CC735208	2PCG33492CC735219	2PCG33494CC735223	2PCG3349XCC735226	2PCG33493CC735228	
2PCG33491CC735146	2PCG3349XCC735176										
2PCG33497CC735183	2PCG33496CC735207										
2PCG33498CC735208	2PCG33492CC735219										
2PCG33494CC735223	2PCG3349XCC735226										
2PCG33493CC735228											
The above list of VIN was valid at the time of publishing this document. Please refer to SAP for most recent information about outstanding vehicles											

MATERIAL REQUIRED TO COMPLTE ONE (1) COACH

Part No.	Description	Qty
563197 (bulk)	CAN CABLE	20ft (6 meters)
562275	PIN TERMINAL (extractor tool #681598)	2
12077411 (564136)	SOCKET TERMINAL, PED METRI-PACK (extractor tool #682256)	2
15324982	SEAL, PIN TERMINAL PED	2

REQUIRED TOOLS

CUTTING PLIERS 	TERMINAL CRIMP TOOL 
TERMINAL EXTRACTOR 	WIRE STRIPPER 

PROCEDURE

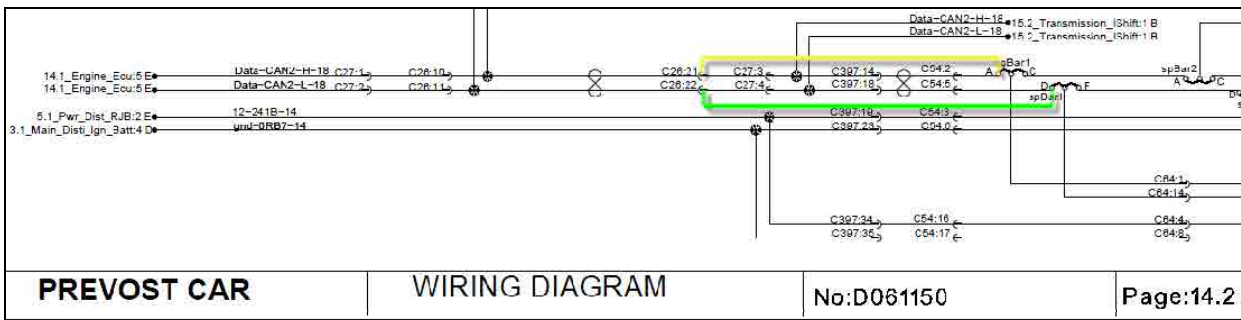


DANGER

Park vehicle safely, apply parking brake, stop engine. In the battery box, set the battery cut-off switch to the OFF position prior to working on the vehicle.

- To correct the J-1939 CAN2 and Nox sensor faults that have been intermittently logging, a dedicated CAN harness cable (twisted wires) will run from connector C26 near the ACM in the condenser compartment to the splice bar connector S-bar 1 at the rear of the bus (refer to the partial view of the wiring diagram below for a representation of the installation).

We eliminate three connectors that were in the original harness and any associated resistance and voltage drops across the connectors.



OVERVIEW- Can High=yellow wire, CAN Low=green wire



NEW HARNESS WILL START HERE AT C26, NEAR THE AFTERTREATMENT CONTROL MODULE (ACM)



NEW HARNESS WILL END UP HERE AT S-BAR 1 SPLICE BAR CONNECTOR

Date	Expiration	Release	Page
11.2013	11.2015	2	3(6)

- 2) Route the cable from C26 through the fuel tank area.



- 3) Enter the PVC conduit at the fuel tank compartment.



- 4) Pull the cable through the PVC conduit into the engine compartment.



- 5) Finish by routing the cable up to the after-treatment compartment and secure the entire cable.



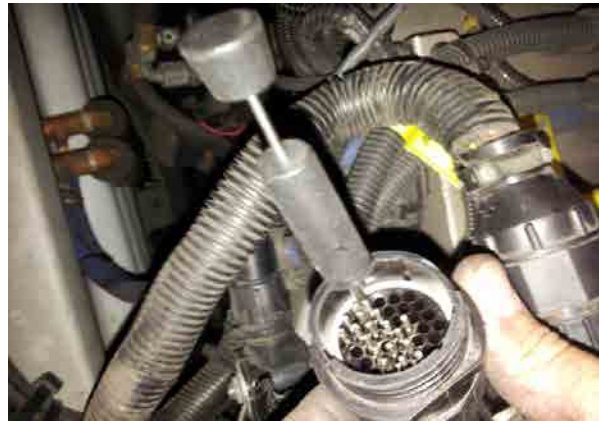
Date	Expiration	Release	Page
11.2013	11.2015	2	4(6)

Installing the new CAN H and CAN L wires into the C26 connector near the ACM and securing the old CAN wires and harness in the condenser compartment.

- 6) Disassemble connector C26.



- 7) Remove CAN H and CAN L terminal pins and wires from cavities 21 & 22. Install terminals on new wires, to do so, strip the wires, crimp on terminals 562275 (2x) and twist wires before inserting terminal pins in the connector plug.



- 8) Install new overlay cable harness CAN H and CAN L wire pins into cavities 21 and 22.



- 9) Reassemble and secure connector C26.



Installing the new harness CAN H and CAN L wires into the S-Bar 1 connector, removing and securing the existing CAN H and L wires.

- 10) Disassemble S-Bar 1 connector and remove CAN H and CAN L wire pins from cavities A and D.

Strip the wires, crimp on terminals 564136 and twist wires before inserting terminal pins in the connector plug.

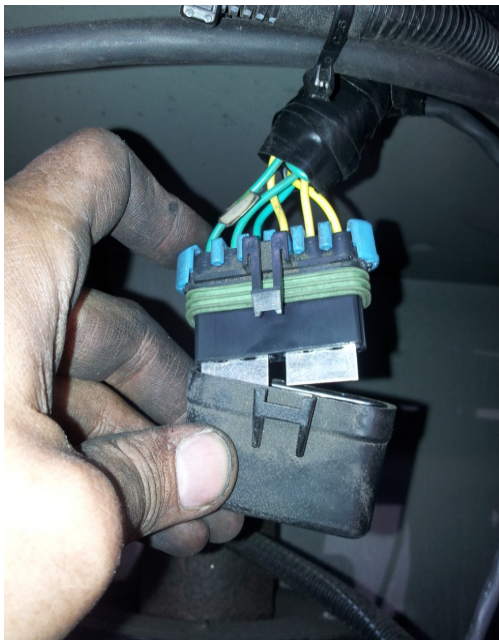


- 11) Install new overlay cable harness CAN H and CAN L wire pins into cavities A and D.



Completed J1939 CAN 2 harness at rear of bus ready to secure to the after-treatment harness above.

- 12) Reassemble S-bar 1 connector.



- 13) Secure S-Bar 1 connector to after-treatment control harness.



Date	Expiration	Release	Page
11.2013	11.2015	2	6(6)

- 14) Set the battery master switch to the ON position, start the engine, check for and clear any diagnostic troubleshooting codes.
- Two test buses were done with this procedure. Both buses were logging fault codes for the J-1939 CAN 2 data line (MID 128 PSID 232 FMI 2) and codes for both inlet and/or outlet Nox sensors (MID128 PPID 270 FMI 9 & MID128 PPID 348 FMI 9) every two to four days.
 - This repair procedure was performed on bus 2485 on 9/5/2013 at Ulmer Park and bus 2443 was completed on 9/10/2013 at Yukon.

PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

ESTIMATED TIME

The time required to perform this special bulletin is approximately 2 hours.

OTHER

VBC Bulletin	na
Fail Code	01.00
Defect Code	09
System Condition	B
Causal Part	563197

Prevost engages in a continuous program of testing and evaluating to provide the best possible product. Prevost, however, is not committed to, or liable for updating existing products.