



PREVOST

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001

MAINTENANCE INFORMATION MI12-40



DATE :	OCTOBER 2012	SECTION :	06 - Electrical
SUBJECT :	LOAD DUMP PROTECTION 50DN ALTERNATOR		

IMPORTANT NOTICE

This modification is recommended by Prevost to increase your vehicle's performance. Note that no reimbursement will be awarded for carrying out this modification.

APPLICATION

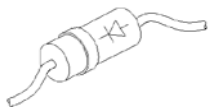
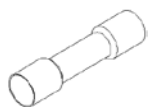
Model	VIN	
XL2 shell Model Year : 2007 - 2008	From 2PCY3349771729096 up to 2PCW334967C729277 incl.	

DESCRIPTION

On the vehicles affected, the Delco 50DN alternator may generate a voltage variation when engine is shutting down. A new circuit and a time delay function can be added to the system to provide protection.

MATERIAL

Order the following parts:

Part No	Image	Description	Qty
560082		Ring terminal #10	1
561740		Diode 3Amp	1
562228		Butt splice 16-14	2
562499		Heat shrink tube	1 ft
562590		Wire 18ga, red, TXL	6 ft
562771		Socket terminal for connector JA	1

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

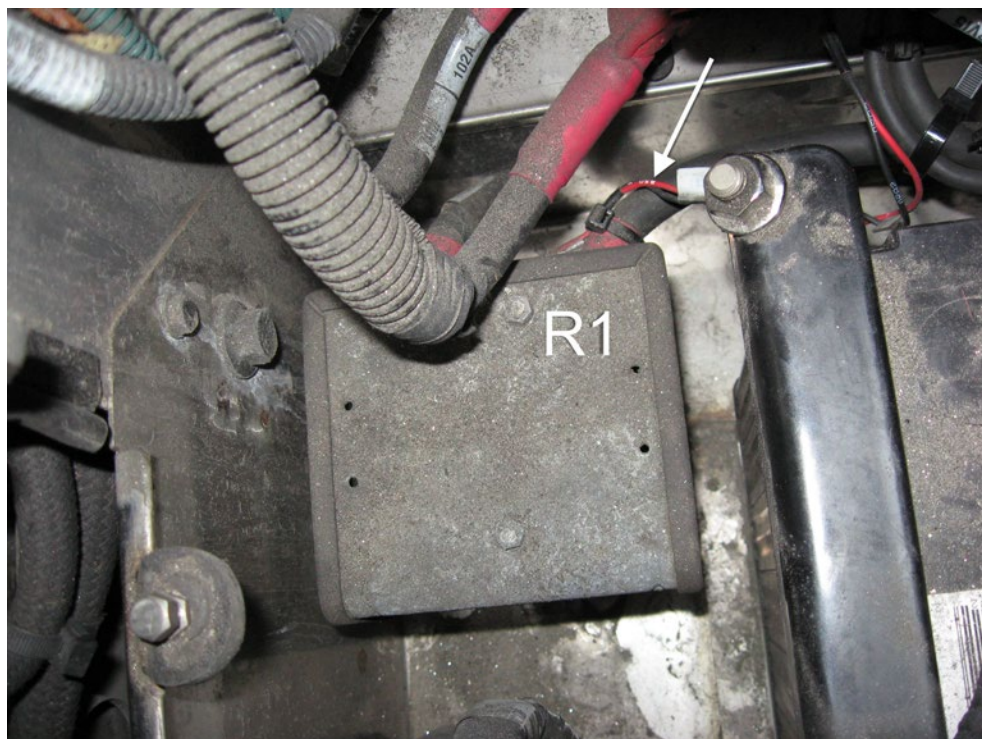
Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

Refer to electrical diagram at the end of this bulletin for an overview of the work to perform.

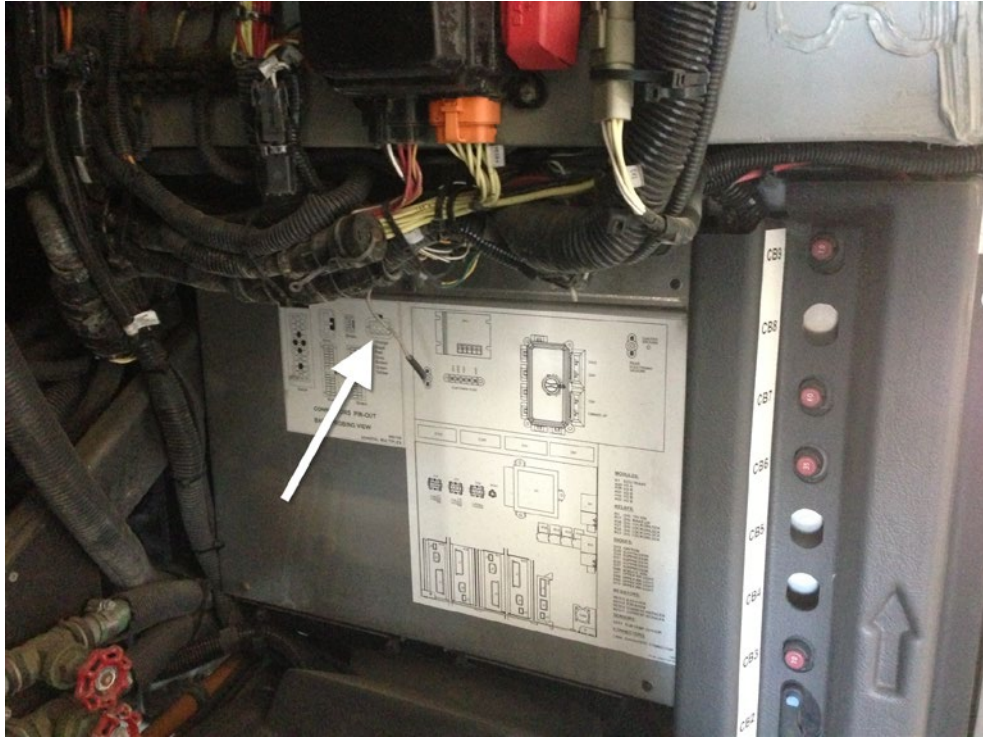
1. Open breakers CB1 & CB2



2. Open the battery box cover.
3. Locate wire 24-85G-18 running from R1 relay.

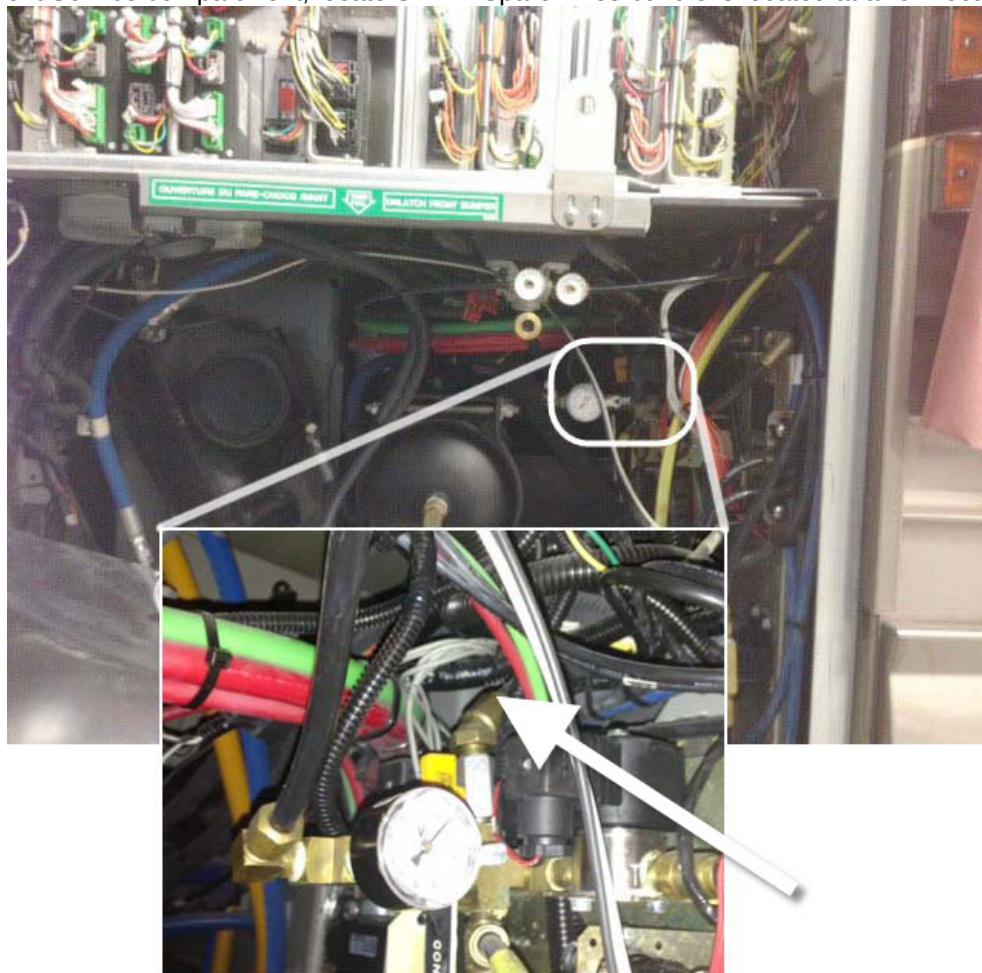


4. Locate SP17, gray spare wire near connector C21.



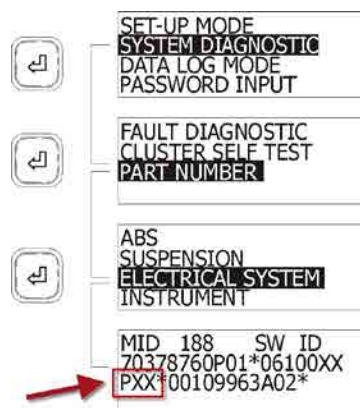
5. At R1 relay, disconnect 85G and cut ring terminal.
6. From pin 86 of R1 relay, run a new 85J red 18ga wire up to SP17.
7. Splice 85J to SP17 using #562228 butt splice and heat shrink tube #562499.
8. Crimp a #560082 ring terminal on 85J, relay side.
9. On existing wire 85G, solder a new diode #561740. Weld and splice other end on wire 85J. Label D62. Protect with translucent heat shrink #562499.

10. In front Service compartment, locate SP17. Spare wires bundle is located at arrow location.



11. Splice a new 85J red 18ga wire on SP17 using #562228 butt splice and heat shrink tube #562499.
12. Connect other end of 85J to JA14 on A36 module. Crimp terminal #562771 with crimper #683765.
13. In the Message Center Display (MCD), verify multiplex software version. (Version should be P17 and later)
14. Follow this menu sequence to verify the software version of the multiplex system.
15. If version is P16 or earlier, reprogram the multiplex to the latest version.

After the modification, you will hear the master relay clicking OFF 3 sec after key is turned OFF



Waste disposal:

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

[illegible]

The diagram illustrates the electrical connections for the 'AFTER' section. Key components include:

- 24VDC CECM**: Common Earth Control Module, connected to terminals JA14, JA13, JA24, and BA22.
- Emergency Output Relay (R21)**: A relay with terminals 85, 86, 87, and 30. It is connected to the CECM and the 24V Ign & Acc Relay.
- 24V Ign & Acc Relay (D6)**: A relay with terminals 85, 86, 87, and 30. It is connected to the Emergency Output Relay and the 24VDC CECM.
- Wiring Harnesses**: Various wiring harnesses are shown, including the 24-24D-4, 24-85A-18, 24-85B-18, 24-85C-18, 24-85D-18, 24-85E-18, 24-85F-18, 24-85G-18, 24-85H-18, 24-85I-18, 24-85J-18, 24-85K-18, 24-85L-18, 24-85M-18, 24-85N-18, 24-85O-18, 24-85P-18, 24-85Q-18, 24-85R-18, 24-85S-18, 24-85T-18, 24-85U-18, 24-85V-18, 24-85W-18, 24-85X-18, 24-85Y-18, 24-85Z-18, 24-85AA-18, 24-85AB-18, 24-85AC-18, 24-85AD-18, 24-85AE-18, 24-85AF-18, 24-85AG-18, 24-85AH-18, 24-85AI-18, 24-85AJ-18, 24-85AK-18, 24-85AL-18, 24-85AM-18, 24-85AN-18, 24-85AO-18, 24-85AP-18, 24-85AQ-18, 24-85AR-18, 24-85AS-18, 24-85AT-18, 24-85AU-18, 24-85AV-18, 24-85AW-18, 24-85AX-18, 24-85AY-18, 24-85AZ-18, 24-85BA-18, 24-85BB-18, 24-85BC-18, 24-85BD-18, 24-85BE-18, 24-85BF-18, 24-85BG-18, 24-85BH-18, 24-85BI-18, 24-85BJ-18, 24-85BK-18, 24-85BL-18, 24-85BM-18, 24-85BN-18, 24-85BO-18, 24-85BP-18, 24-85BQ-18, 24-85BR-18, 24-85BS-18, 24-85BT-18, 24-85BU-18, 24-85BV-18, 24-85BW-18, 24-85BX-18, 24-85BY-18, 24-85BZ-18, 24-85CA-18, 24-85CB-18, 24-85CC-18, 24-85CD-18, 24-85CE-18, 24-85CF-18, 24-85CG-18, 24-85CH-18, 24-85CI-18, 24-85CJ-18, 24-85CK-18, 24-85CL-18, 24-85CM-18, 24-85CN-18, 24-85CO-18, 24-85CP-18, 24-85CQ-18, 24-85CR-18, 24-85CS-18, 24-85CT-18, 24-85CU-18, 24-85CV-18, 24-85CW-18, 24-85CX-18, 24-85CY-18, 24-85CZ-18, 24-85DA-18, 24-85DB-18, 24-85DC-18, 24-85DD-18, 24-85DE-18, 24-85DF-18, 24-85DG-18, 24-85DH-18, 24-85DI-18, 24-85DJ-18, 24-85DK-18, 24-85DL-18, 24-85DM-18, 24-85DN-18, 24-85DO-18, 24-85DP-18, 24-85DQ-18, 24-85DR-18, 24-85DS-18, 24-85DT-18, 24-85DU-18, 24-85DV-18, 24-85DW-18, 24-85DX-18, 24-85DY-18, 24-85DZ-18, 24-85EA-18, 24-85EB-18, 24-85EC-18, 24-85ED-18, 24-85EE-18, 24-85EF-18, 24-85EG-18, 24-85EH-18, 24-85EI-18, 24-85EJ-18, 24-85EK-18, 24-85EL-18, 24-85EM-18, 24-85EN-18, 24-85EO-18, 24-85EP-18, 24-85EQ-18, 24-85ER-18, 24-85ES-18, 24-85ET-18, 24-85EU-18, 24-85EV-18, 24-85EW-18, 24-85EX-18, 24-85EY-18, 24-85EZ-18, 24-85FA-18, 24-85FB-18, 24-85FC-18, 24-85FD-18, 24-85FE-18, 24-85FF-18, 24-85FG-18, 24-85FH-18, 24-85FI-18, 24-85FJ-18, 24-85FK-18, 24-85FL-18, 24-85FM-18, 24-85FN-18, 24-85FO-18, 24-85FP-18, 24-85FQ-18, 24-85FR-18, 24-85FS-18, 24-85FT-18, 24-85FU-18, 24-85FV-18, 24-85FW-18, 24-85FX-18, 24-85FY-18, 24-85FZ-18, 24-85GA-18, 24-85GB-18, 24-85GC-18, 24-85GD-18, 24-85GE-18, 24-85GF-18, 24-85GG-18, 24-85GH-18, 24-85GI-18, 24-85GJ-18, 24-85GK-18, 24-85GL-18, 24-85GM-18, 24-85GN-18, 24-85GO-18, 24-85GP-18, 24-85GQ-18, 24-85GR-18, 24-85GS-18, 24-85GT-18, 24-85GU-18, 24-85GV-18, 24-85GW-18, 24-85GX-18, 24-85GY-18, 24-85GZ-18, 24-85HA-18, 24-85HB-18, 24-85HC-18, 24-85HD-18, 24-85HE-18, 24-85HF-18, 24-85HG-18, 24-85HH-18, 24-85HI-18, 24-85HJ-18, 24-85HK-18, 24-85HL-18, 24-85HM-18, 24-85HN-18, 24-85HO-18, 24-85HP-18, 24-85HQ-18, 24-85HR-18, 24-85HS-18, 24-85HT-18, 24-85HU-18, 24-85HV-18, 24-85HW-18, 24-85HX-18, 24-85HY-18, 24-85HZ-18, 24-85IA-18, 24-85IB-18, 24-85IC-18, 24-85ID-18, 24-85IE-18, 24-85IF-18, 24-85IG-18, 24-85IH-18, 24-85II-18, 24-85IJ-18, 24-85IK-18, 24-85IL-18, 24-85IM-18, 24-85IN-18, 24-85IO-18, 24-85IP-18, 24-85IQ-18, 24-85IR-18, 24-85IS-18, 24-85IT-18, 24-85IU-18, 24-85IV-18, 24-85IW-18, 24-85IX-18, 24-85IY-18, 24-85IZ-18, 24-85JA-18, 24-85JB-18, 24-85JC-18, 24-85JD-18, 24-85JE-18, 24-85JF-18, 24-85JG-18, 24-85JH-18, 24-85JI-18, 24-85JJ-18, 24-85JK-18, 24-85JL-18, 24-85JM-18, 24-85JN-18, 24-85JO-18, 24-85JP-18, 24-85JQ-18, 24-85JR-18, 24-85JS-18, 24-85JT-18, 24-85JU-18, 24-85JV-18, 24-85JW-18, 24-85JX-18, 24-85JY-18, 24-85JZ-18, 24-85KA-18, 24-85KB-18, 24-85KC-18, 24-85KD-18, 24-85KE-18, 24-85KF-18, 24-85KG-18, 24-85KH-18, 24-85KI-18, 24-85KJ-18, 24-85KK-18, 24-85KL-18, 24-85KM-18, 24-85KN-18, 24-85KO-18, 24-85KP-18, 24-85KQ-18, 24-85KR-18, 24-85KS-18, 24-85KT-18, 24-85KU-18, 24-85KV-18, 24-85KW-18, 24-85KX-18, 24-85KY-18, 24-85KZ-18, 24-85LA-18, 24-85LB-18, 24-85LC-18, 24-85LD-18, 24-85LE-18, 24-85LF-18, 24-85LG-18, 24-85LH-18, 24-85LI-18, 24-85LJ-18, 24-85LK-18, 24-85LL-18, 24-85LM-18, 24-85LN-18, 24-85LO-18, 24-85LP-18, 24-85LQ-18, 24-85LR-18, 24-85LS-18, 24-85LT-18, 24-85LU-18, 24-85LV-18, 24-85LW-18, 24-85LX-18, 24-85LY-18, 24-85LZ-18, 24-85MA-18, 24-85MB-18, 24-85MC