

Special Bulletin

SP15-337B

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06.2015	06.2017	3	1(10)

Revision B: This release replaces all previous versions

Oct. 26, 2015 Added Shrink tubing in BOM, Solder in step 7.

LTD EXTENSION ON ENGINE CURBSIDE

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, install an extension to the LTD cable on the engine curb side.

MODEL YEAR(S) AND VEHICLES INVOLVED

NOTICE TO SERVICE CENTERS	
Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.	
Model	VIN
X3-45 Commuter Model Year : 2012	From 2PCG33495 <u>C</u> 73 <u>5053</u> up to 2PCG33495 <u>C</u> 73 <u>5232</u> incl.
This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this bulletin will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.	

MATERIAL NEEDED

Order kit SP15-337 which includes the following parts:

Part No.	Description	Qty
561567	PIN TERMINAL, 20-18, PED	2
561689	SOCKET TERMINAL, 20-18, PED	2
561565	CABLE SEAL, PED CONN. - GREEN (20-18GA)	4
561782	CONNECTOR, WEATHER PACK, SH 3C, BLACK	1
561781	CONNECTOR, WEATHER PACK, PH 3C, BLACK	1
564087	LTD wire (31in lg.)	2.58 ft
507664	DOUBLE LOOP CABLE TIE, 3/16" X 11"	12

Other parts required

Part No.	Description	Qty
561918	SHRINK TUBING / .125" - .062" / BLACK	100mm/bus
563158	SHRINK TUBING / .300" - .060" / BLACK	50mm/bus

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NOTE

Material can be obtained through regular channels.

PROCEDURE



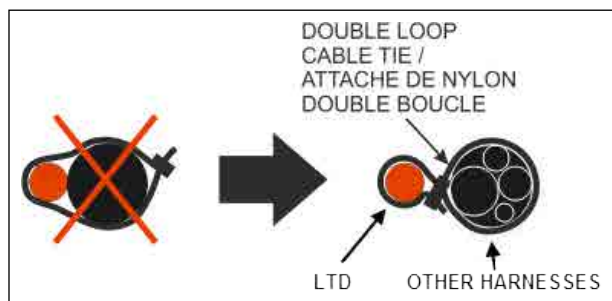
DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

IMPORTANT: WHEN INSTALLING THE "LTD", THE FOLLOWING GUIDELINES MUST BE FOLLOWED.

NOTE

Always use double loop cable ties to secure LTD. LTD must be tied alone, with no other cables in the loop.

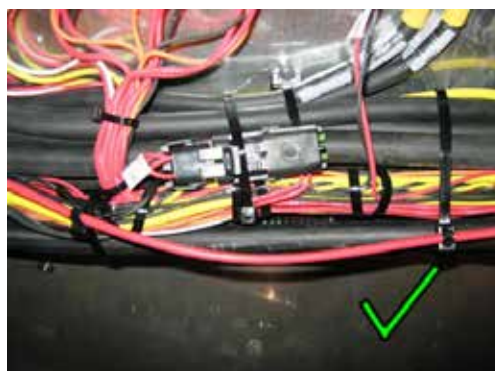


NOT ALLOWED



Possible contact or rubbing against screws, edges, etc.

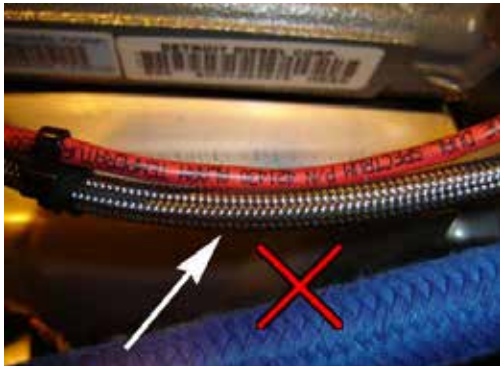
CORRECT



LTD must be routed clear of screws, sharp edges, etc.

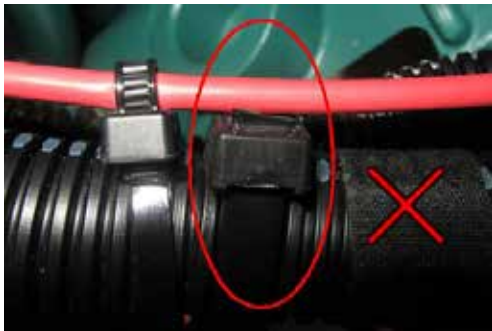
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CORRECT			

NOT ALLOWED



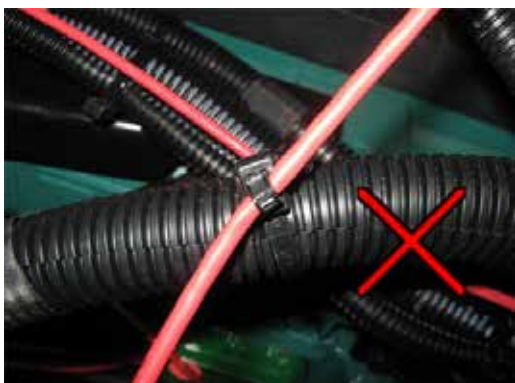
Rubbing or possible rubbing against abrasive surfaces

NOT ALLOWED

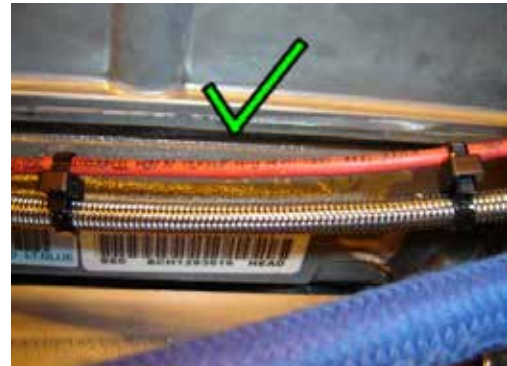


LTD touching cut cable tie

NOT ALLOWED



LTD extending slantingly from the cable tie



Secure with double loop cable ties. Max Distance between cable ties is 4 in (100mm)

CORRECT



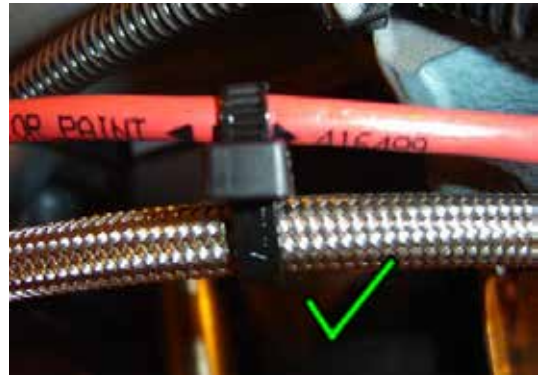
LTD is not a flexible harness. Avoid tight bends and kinks which could short circuit the LTD. Loops must have a minimum radii of 4 inches (100 mm)

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CORRECT			

NOT ALLOWED



Cable tie tighten in excess on the LTD. Tighten cable tie on LTD by hand only. Tighten just enough to prevent LTD from slipping from once side to the other inside the cable tie loop



Proper tightening of the cable tie on the LTD

1. With the battery master switch to the ON position and the ignition switch to the ON position, check that there are no trouble conditions on the AFSS system. Check that the driver's area AFSS protection panel SYSTEM OK green lamp is illuminating. If it is not illuminating, then the TROUBLE lamp should blink or illuminate steady. You must troubleshoot and correct that situation prior proceeding to this bulletin.
2. Disconnect the extinguisher bottle connector. If available, plug special device Kidde Valve Simulator (Prevost #685128).

The Valve Simulator is used to simulate the squib and discharging of an extinguisher. It plugs into the wiring harness of the extinguishing circuit and provides an audible warning (chirp) when a signal is received from the control panel to discharge the extinguisher.

Failure to do so may result in extinguisher discharge at time of resetting the system if the LTD is short circuited due to improper manipulations and/or faulty installation.

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Figure 1 : Valve Simulator

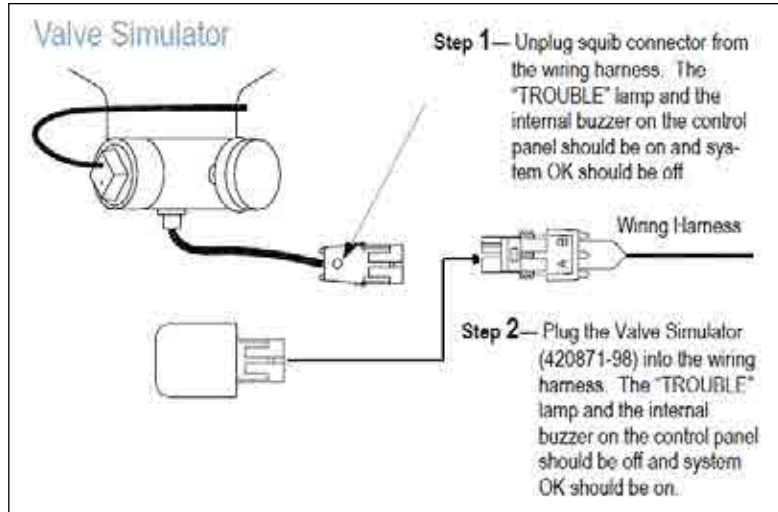


Figure 2 : Control panel behavior upon simulator connection.

- Turn the ignition switch to the OFF position. Set the battery master switch to the OFF position.

New LTD extension assembly

- Strip cable and wires.
- Slip four 50mm lengths of shrink tube 561918 over each wire.
- Slip two 25mm lengths of shrink tube 563158 over cable.
- Solder and crimp #561567 pins at one end and #561689 sockets at the other end.
- Insert pins in 561781 connector cavities A and C. insert plugs #561565 in cavity B.
- Insert sockets in 561782 connector cavities A and C. Insert plugs #561565 in cavity B
- Heat the shrink tubes in position according to image below.

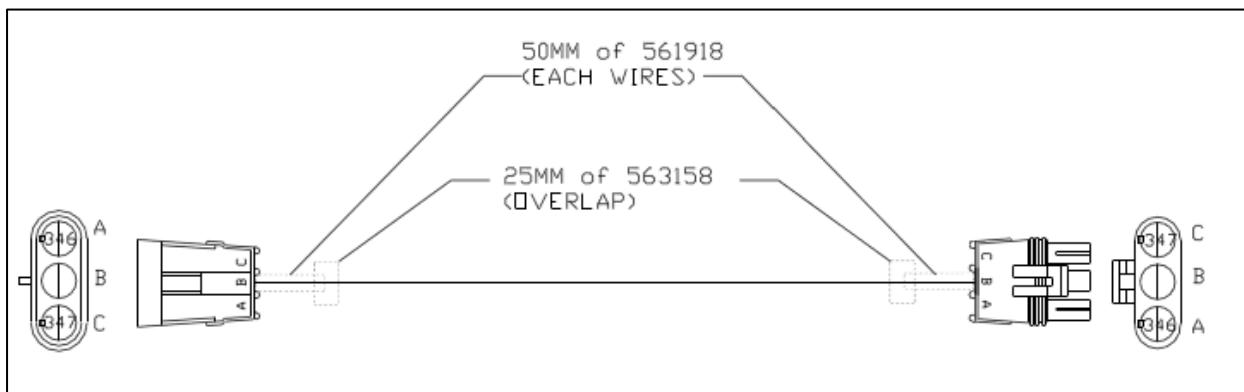


Figure 3

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11. On curbside of the engine, next to the intake manifold, remove the “End Of Line” resistor (EOL) from the existing connector on the LTD wire. Reserve for future use.
12. Connect the LTD extension to this connector.

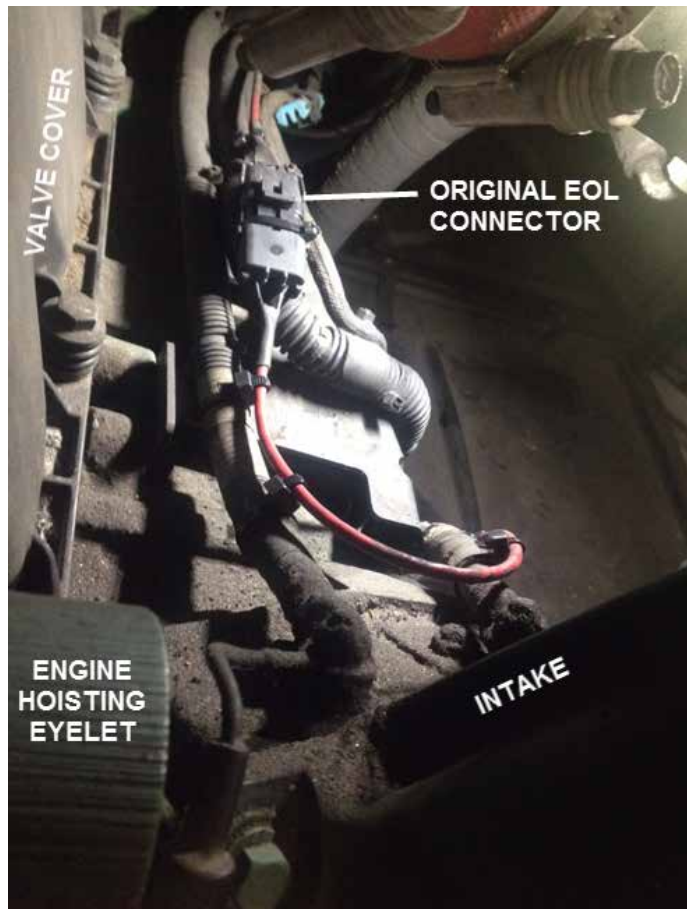


Figure 4

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13. Route the extension wire with the proper 4 inch radius and secure at least every 4 inches.
14. Use double loop cable ties. Follow the various guidelines highlighted earlier in this bulletin.



Figure 5

15. Route the LTD wire to a point forward of the alternator. The terminus point may vary slightly from one bus to another.
16. Connect the reserved EOL resistor.

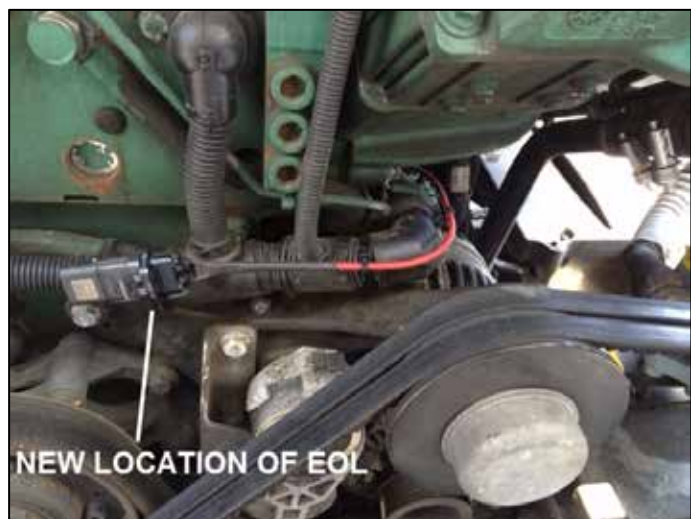


Figure 6

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CABLE TIE SUGGESTED ARRANGEMENT

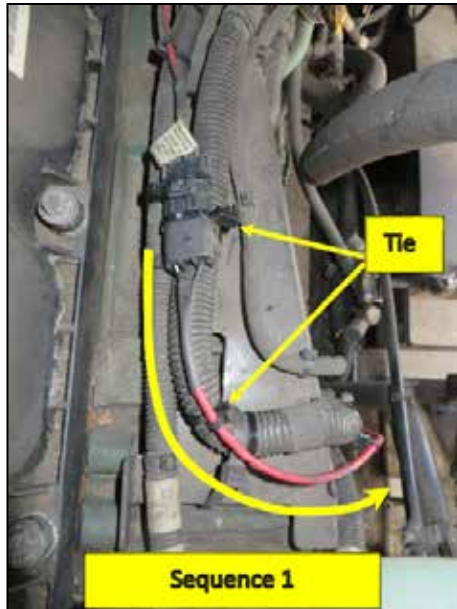


Figure 7

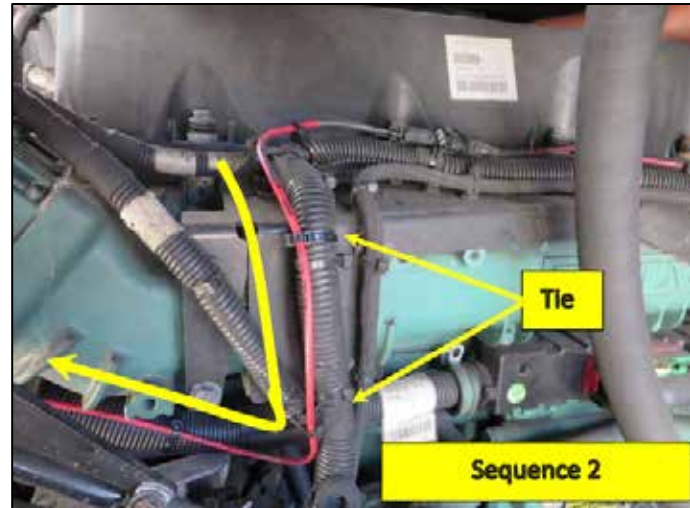


Figure 8

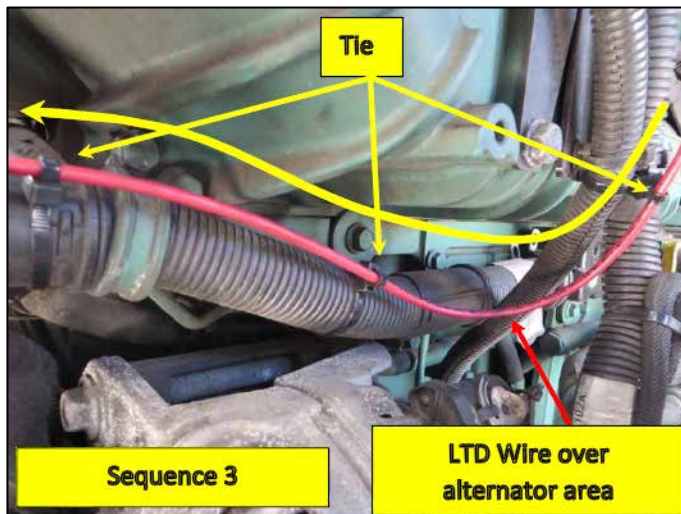


Figure 9

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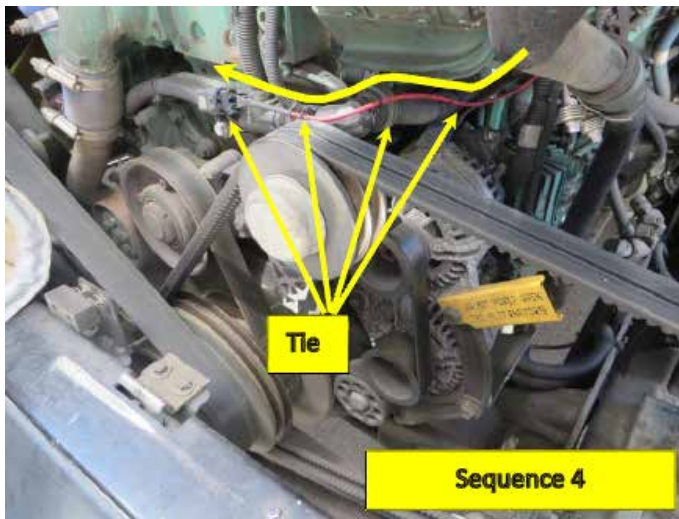


Figure 10

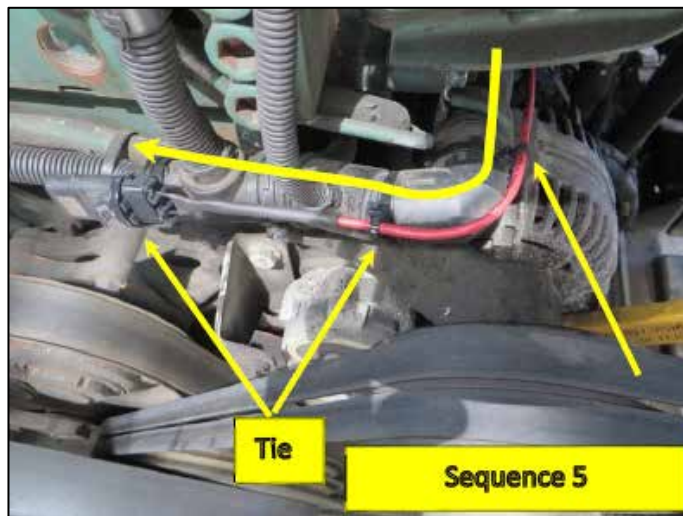


Figure 11

17. Check that the driver's area AFSS protection panel SYSTEM OK green lamp is illuminated.
18. This confirms the detection circuit is good.
19. Remove the valve simulator.

PARTS / WASTE DISPOSAL

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

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ESTIMATED TIME

The time required to perform this special bulletin is approximately one and a half hour. (1 1/2h)

OTHER

VBC Bulletin	N/A
Fail Code	23.08
Defect Code	09
System Condition	B
Causal Part	564087

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.