

PREVOST

**WARRANTY
BULLETIN**

WB17-02A

DATE :	April 2017	SECTION :	23 ACCESSORIES
EXPIRATION:	April 2019		
SUBJECT :	ADDITION OF AN EXTENSION TO THE LINEAR THERMAL DETECTOR (LTD)		

REVISION : A THIS WARRANTY BULLETIN SUPERSEDES PREVIOUS VERSION.
05-26-2017 Addition of a note regarding the Kidde Valve Simulator, page 5.

APPLICATION

NOTICE TO SERVICE CENTERS <i>Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.</i>	
Model	VIN
H3-41, H3-45 coaches Model Year : 2014 - 2017	 2PCH33493EC71 2507 From 2PCH33498EC71 2602 up to 2PCH33492HC71 3734 incl.
X3-45 coaches Model Year : 2014 - 2017	2PCG33493EC73 5538 2PCG33499EC73 5608 From 2PCG33496EC73 5629 up to 2PCG33490HC73 6179 incl.
X3-45 Commuter Model Year : 2014 - 2016	2PCG33491 EC735571 4RKG33495 F9737000 2PCG33492 GC735968
X3-45 VIP commercial use Model Year : 2014 - 2017	From 2PC C 33490EC73 5625 up to 2PC C S3497HC73 6178 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.	

DESCRIPTION

On the vehicles affected by this bulletin, Prevost recommends the addition of an extension to the linear thermal detector installed on your vehicle. This extension can possibly detect overheating of an alternator.

MATERIAL

Order kit #WB17-02 that includes the following parts:

Part No.	Description	Qty
069175	EXTENSION, LINEAR THERMAL DETECTOR	1
504637	CABLE TIE, NYLON BLK (STD) 3/16" x 13"	6
507664	CABLE TIE, DOUBLE LOOP 3/16" x 11"	12

<i>NOTE</i>
<i>Material can be obtained through regular channels.</i>

CONTENT

PART 1 - LTD INSTALLATION GUIDELINES	3
PART 2 – PREPARATION.....	5
PART 3 – INSTALLATION OF THE LTD EXTENSION.....	7
3.1 The following images show a Linear Thermal Detector wire (LTD) installation where the EOL (End Of Line) resistor is found far from the intake air preheater. These images are used to illustrate a common installation. The actual installation on your vehicle may differ slightly.	7
3.2 The following images show a LTD installation where the EOL (End Of Line) resistor is found close to the intake air preheater. The actual installation on your vehicle may differ slightly.	9

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 the Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

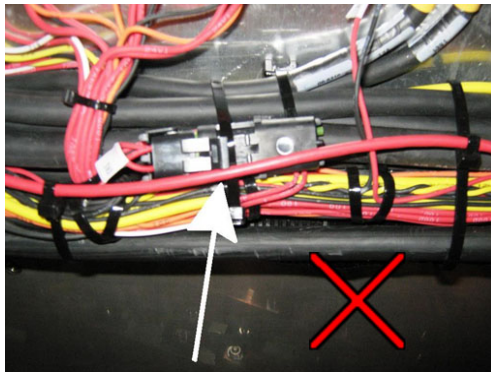
PART 1 - LTD INSTALLATION GUIDELINES

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

NOTE

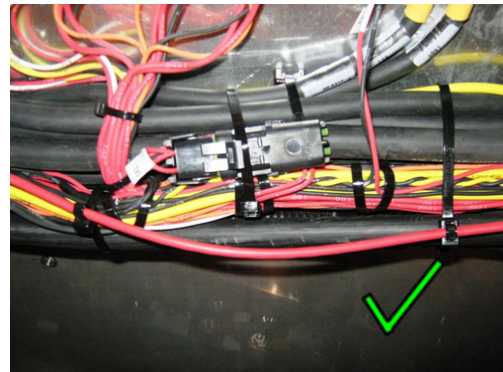
Always use double loop cable ties to secure LTD. LTD must be tied alone, with no other cables in the loop.

NOT ALLOWED



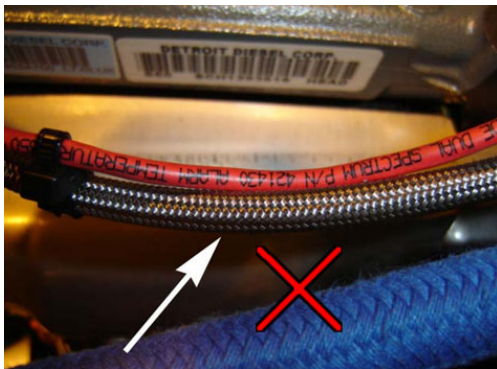
Possible contact or rubbing against screws, edges, etc.

CORRECT



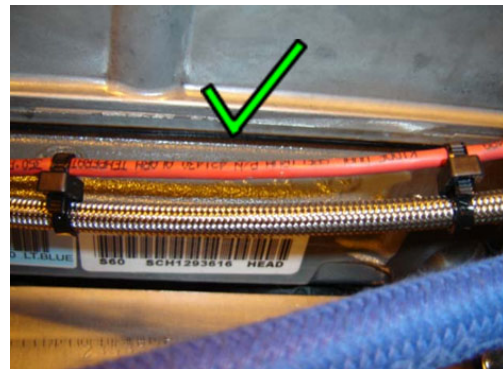
LTD must be routed clear of screws, sharp edges, etc.

NOT ALLOWED



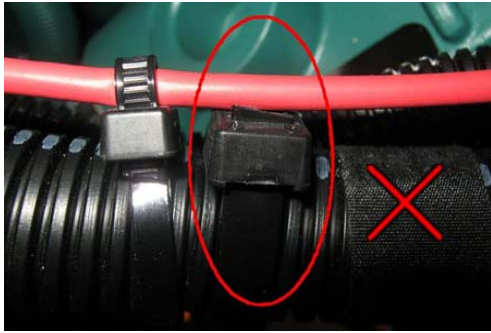
Rubbing or possible rubbing against abrasive surfaces

CORRECT



LTD must be secured with double loop cable ties. Distance between cable ties must not exceed 4 inches (100mm) max

NOT ALLOWED



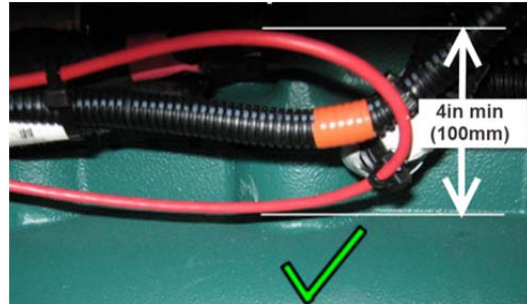
LTD touching cut cable tie

NOT ALLOWED



LTD extending slantingly from the cable tie

CORRECT



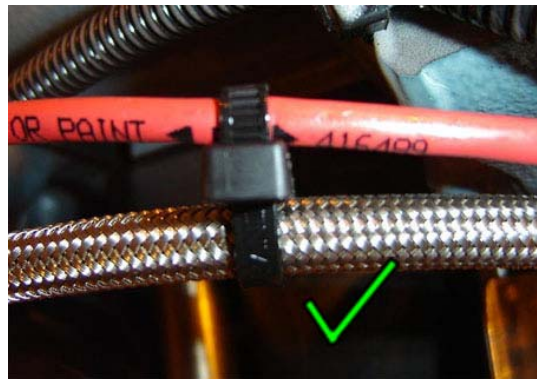
LTD is not a flexible harness. Avoid tight bends and kinks which could short circuit the LTD. Loops must have a minimum radii of 2 inches (50 mm)

NOT ALLOWED

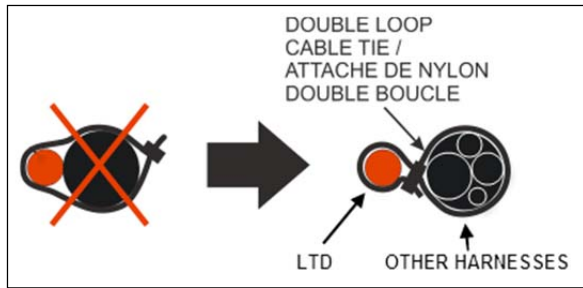


Cable tie tighten in excess on the LTD. Tighten cable tie on LTD by hand only. Tighten just enough to prevent LTD from slipping from one side to the other inside the cable tie loop

CORRECT



Proper tightening of the cable tie on the LTD



PART 2 – PREPARATION

- 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.

NOTE

The Kidde "Valve Simulator" (#685128) is a tool used for the inspection and repair of the AFSS system. It can be purchased from Prevest Parts.

If you don't have a Kidde valve simulator, you can go to your nearest Prevest Service Center to have this bulletin performed.

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.



FIGURE 1

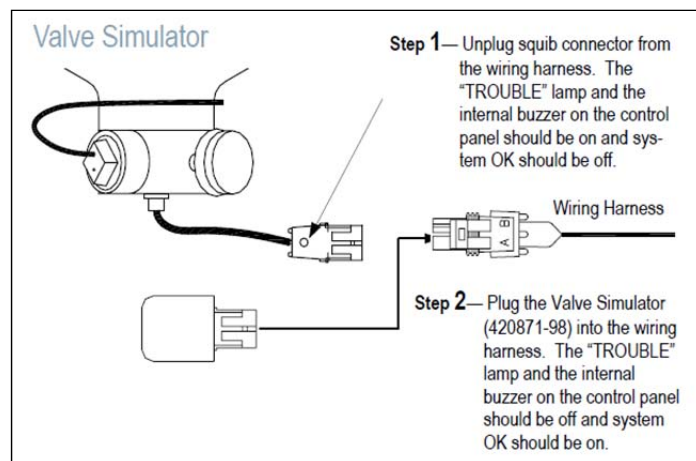


FIGURE 2

- 3) Turn the ignition switch to the OFF position. Set the battery master switch to the OFF position.
- 4) Inside the front electrical compartment, pull fuse F45 to cut electrical supply to the AFSS protection panel (see FIGURE 3).

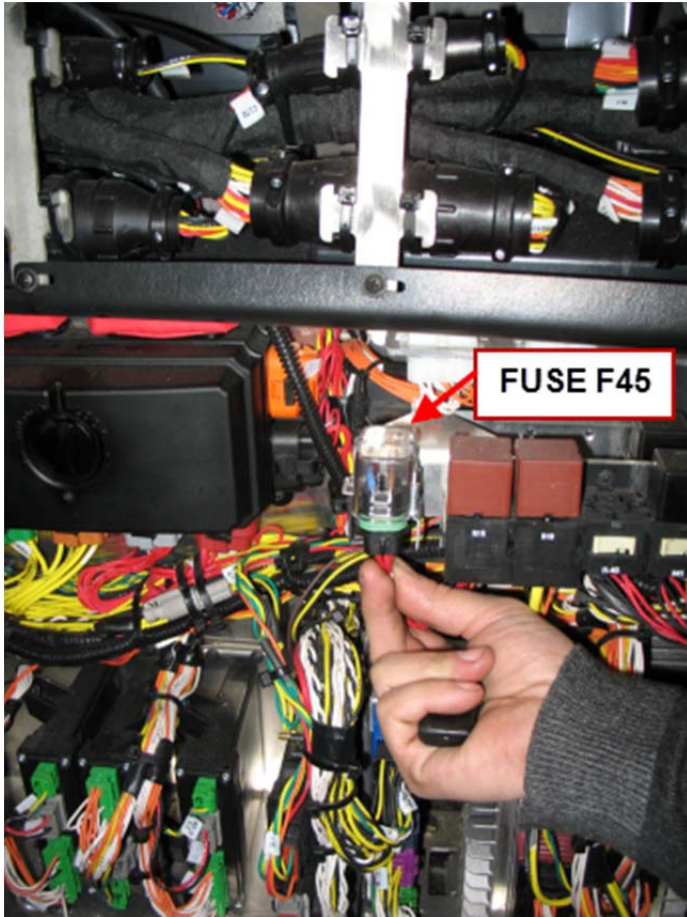


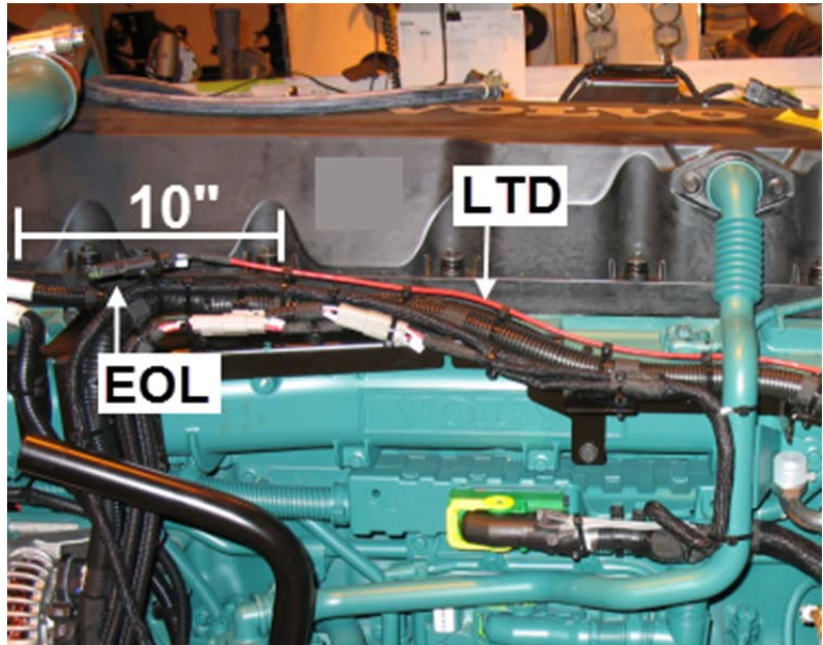
FIGURE 3: FUSE F45 INSIDE FRONT ELECTRICAL COMPARTMENT

PART 3 – INSTALLATION OF THE LTD EXTENSION

3.1 The following images show a Linear Thermal Detector wire (LTD) installation where the EOL (End Of Line) resistor is found far from the intake air preheater. These images are used to illustrate a common installation. The actual installation on your vehicle may differ slightly.

- 1) On the cold side of the engine, remove the End of Line (EOL) resistor from the existing LTD connector. **Keep the EOL resistor for reuse.**

NOTE: position of the EOL resistance may vary from about 10 inches from one vehicle to another. This position will determine the final position of the EOL resistor once connected at the end of the extension.



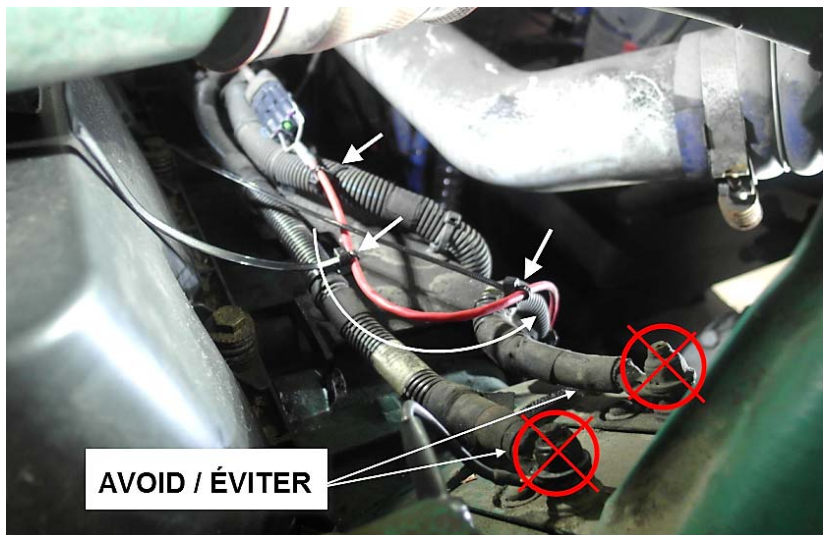
- 2) Plug extension #069175 to the LTD connector. Make sure that the connector remains properly secured with a nylon tie.

NOTE: The actual installation on your vehicle may vary depending on where the LTD connector is located.

NOTE: secure the extension with double loop cable ties at least every 4 inches. Follow the various guidelines highlighted in PART 1 of this bulletin.

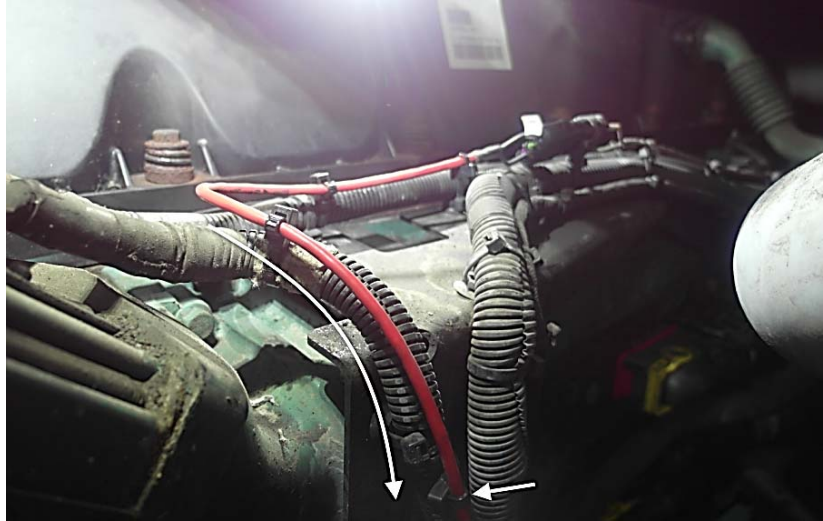
NOTE: respect the 2 inches radii.

NOTE: short arrows indicate a nylon cable tie.



MAKE A CURVE WITH THE LTD AND THEN ROUTE IT DOWN ON THE PREHEATER GROUND CABLE (gnd-0B1-2). KEEP THE LTD CLEAR FROM THE PREHEATER STUDS.

- 3) Route the LTD wire to a point forward of the upper alternator. The terminus point will vary from one vehicle to another.



- 4) Under the intake air preheater.



- 5) Plug the EOL resistor at the end of the extension.

NOTE: extension connector must be properly secure with a nylon tie.

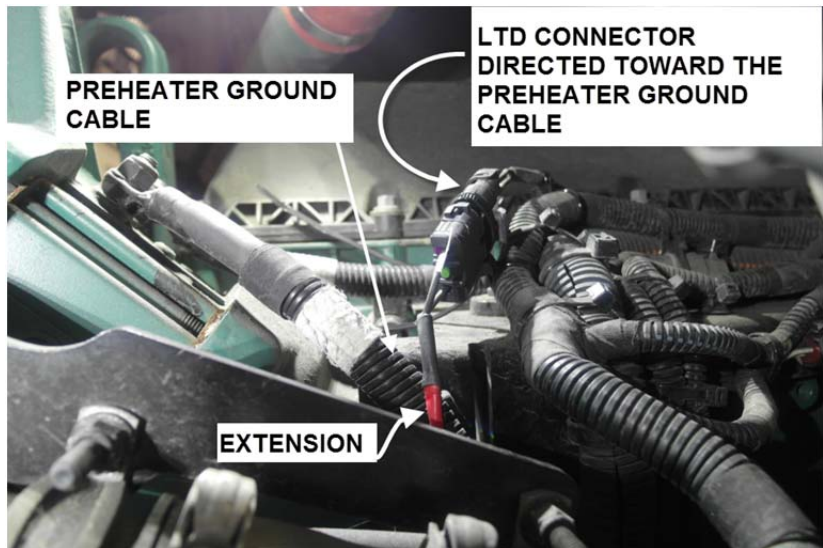
- 6) Cut all the excessive lengths on the nylon ties.



3.2 The following images show a LTD installation where the EOL (End Of Line) resistor is found close to the intake air preheater. The actual installation on your vehicle may differ slightly.

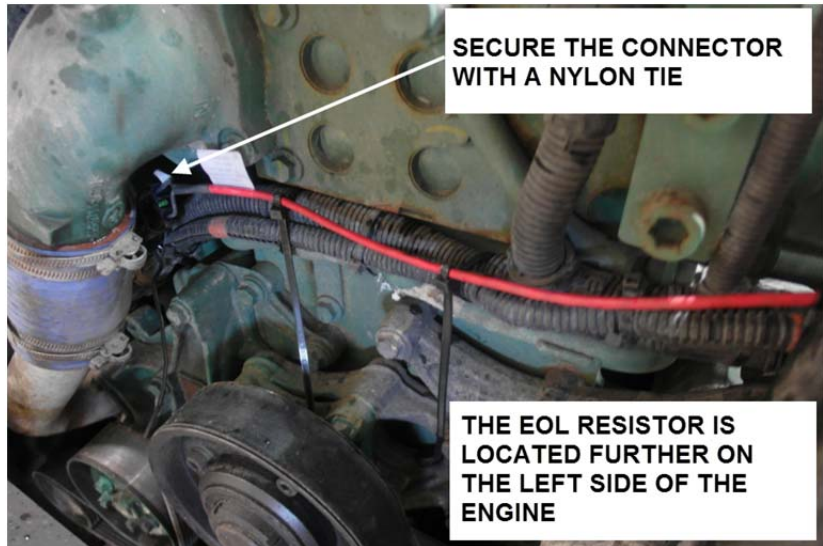
- 1) The LTD connector is located near the intake air preheater; it is therefore directed toward the descending section of the ground cable. Keep the extension clear from the preheater studs.

NOTE: the connector must be securely attached using a nylon tie.



- 2) Consequently, the EOL resistor is located farther on the left side of the engine.

NOTE: The connector must be securely attached using a nylon tie.



WARRANTY

This modification is covered by Prevost's normal warranty. We will reimburse you the parts and one hour(s) (1.0) of labor upon receipt of a warranty claim. Please submit claim via our Online Warranty System, available at www.prevostcar.com (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Warranty Bulletin WB17-02".

OTHER

VBC Bulletin	N/A
Fail Code	23.08
Defect Code	09
Syst. Cond	B
Causal Part	069041

Access all our Service Bulletins on <http://techpub.prevostcar.com/en/> or scan the QR-Code with your smart phone.
E-mail us at technicalpublications_prev@volvo.com and type "ADD" in the subject to receive our warranty bulletins by e-mail.

