

PREVOST

Instruction Sheet

IS-23156

REPLACEMENT OF THE LINEAR THERMAL DETECTOR

H3 SERIES FROM K-0605 TO R-2021 AND X3 SERIES FROM L-6502 TO R-4081

First Release

05-01-2025

MATERIAL

Kit **#0600387** includes the following parts:

Part No.	Description	Qty
0600386	WHITE LTD WIRE EXTENTION HARNESS	1
504300	GROMMET LTD	36
507664	CABLE TIE, NYLON BLK (50 POUND) DOUBLE LOOP	42
504637	CABLE TIE, NYLON BLK (STD)	4
563587	END-OF-LINE RESISTOR	1
902005	LINEAR THERMAL DETECTOR (LTD), WHITE	1
IS-23156	INSTRUCTION SHEET	1
FI-23156	FEUILLE D'INSTRUCTION	1

NOTE

Material can be obtained through regular channels.

SAFETY PRECAUTIONS

- Eye protection should always be worn when working in a shop.
- Rules for Personal Protection Equipment should always be respected. Wear your PPE including but not limited to the following:



Safety First!



PROCEDURE



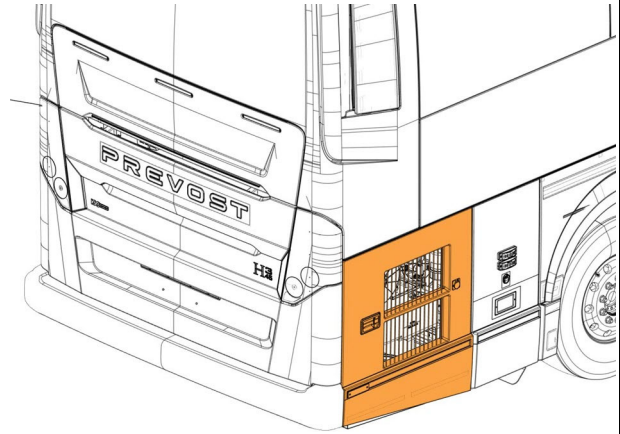
DANGER

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.

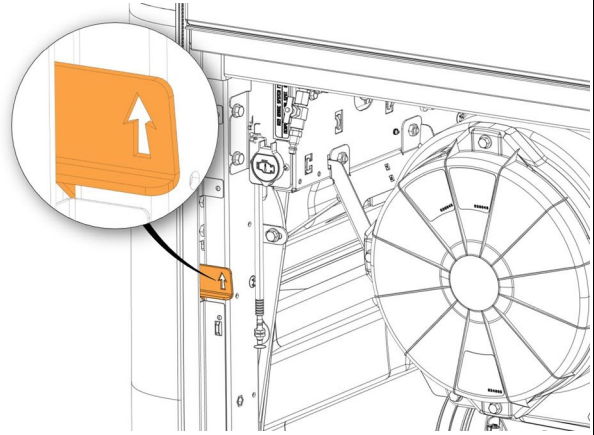
Lock out & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

LINEAR THERMAL DETECTOR (LTD) REPLACEMENT FOR H3 SERIES

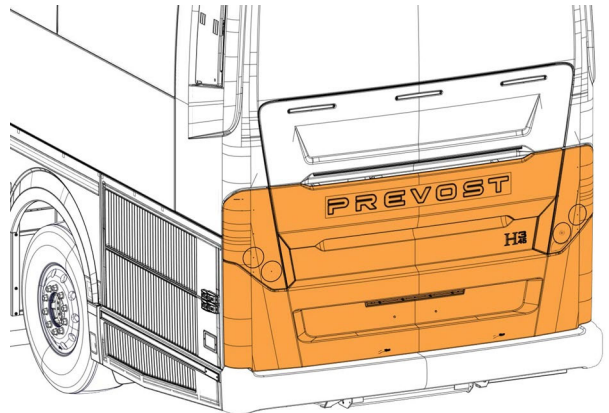
1. Open the compressor door.



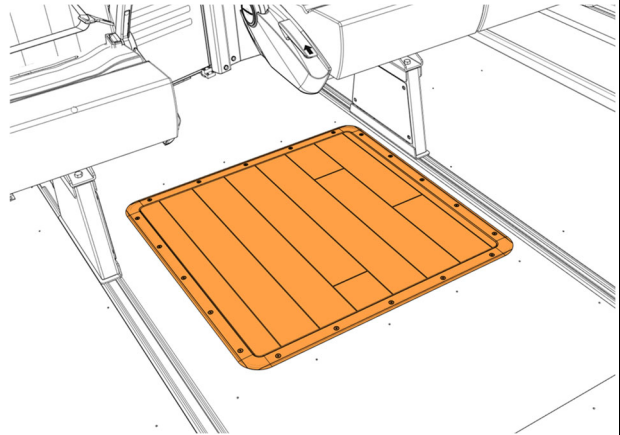
2. Lift the release lever to unlatch the engine compartment door.



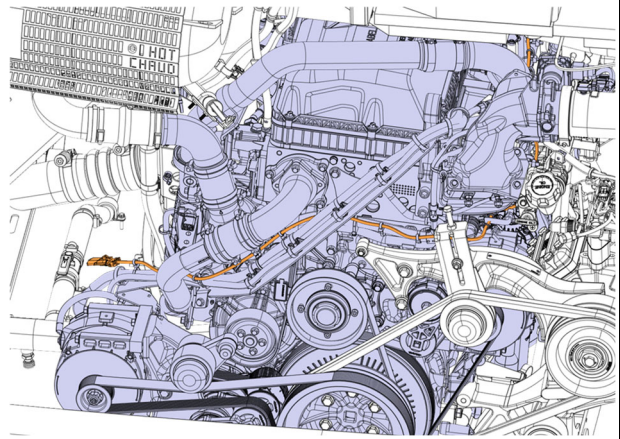
3. Pull the engine compartment door out and up to open.



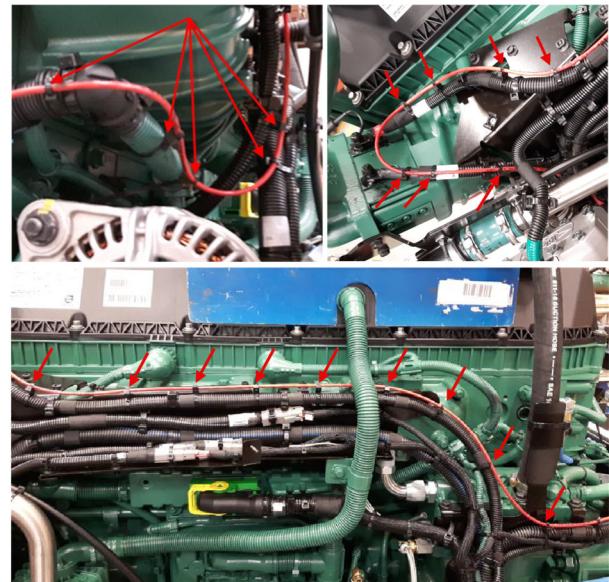
4. For H3-45 coaches, unscrew and remove the engine access hatch located near the rear passenger seats, to ease access to the engine.



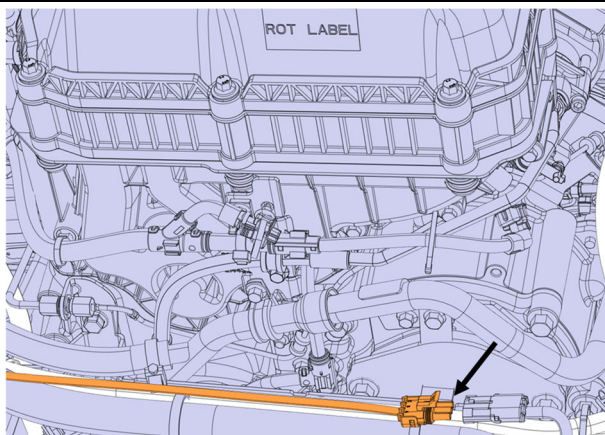
5. Locate the existing LTD (red cable) routed around the engine.



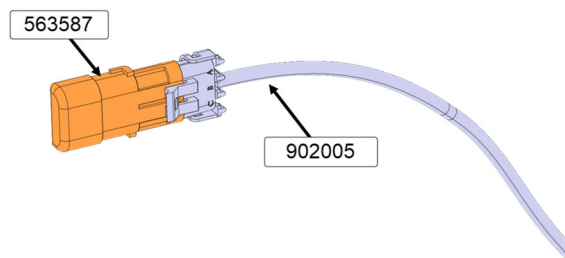
6. Cut all cable ties securing the existing LTD.



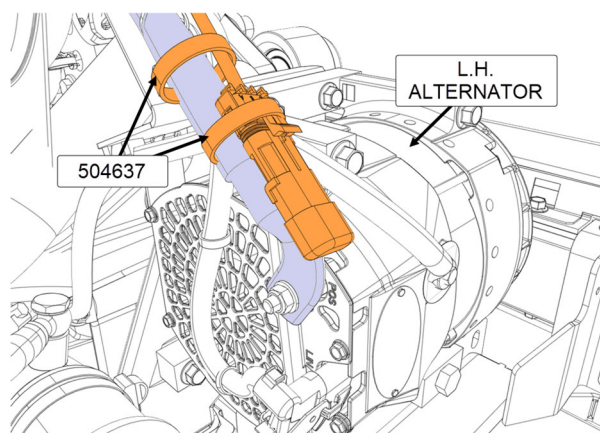
7. Disconnect the existing LTD from connector C39A located at the rear of the engine.
8. Remove and discard the LTD.



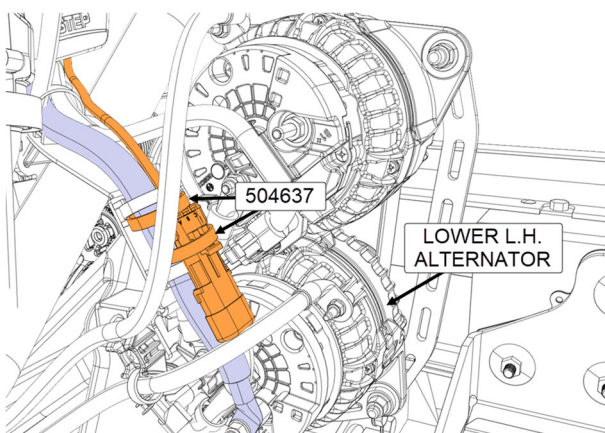
9. Connect end-of-line resistor 563587 to the new LTD 902005.



10. Position the end-of-line resistor connected to LTD above the power cable of (lower) left hand-side alternator, as shown in the figures.
11. Attach the LTD connector to the alternator power cable using cable-ties 504637 (2x).

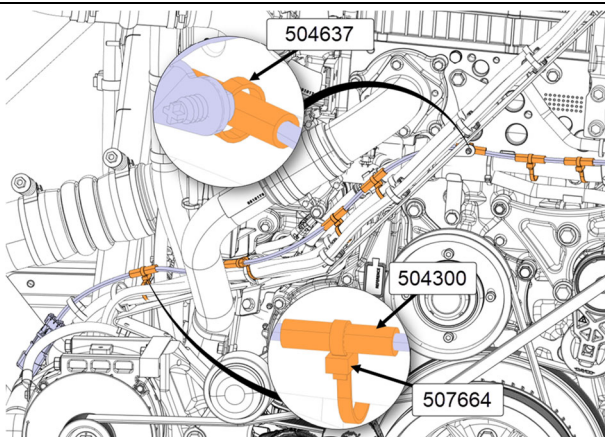


WITH REMY ALTERNATOR

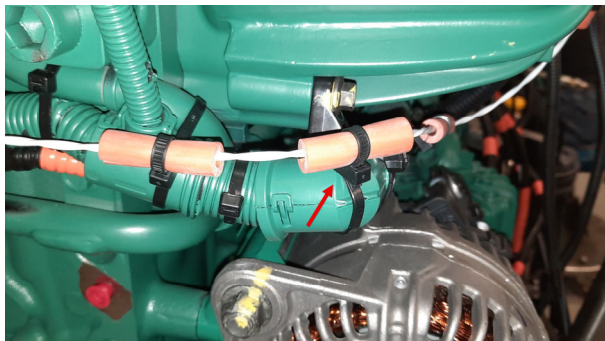


WITH HD10 BOSCH ALTERNATORS

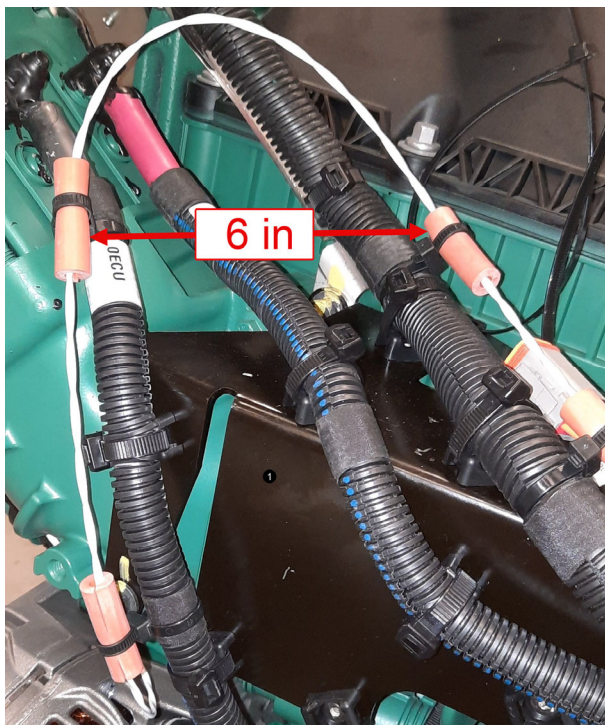
12. Route the new LTD towards the engine right-hand side.
13. For each attachment point of the LTD, install grommet 504300 and secure it to the nearby harness using double loop cable tie 507664.
14. Use cable tie 504637 for the attachment point on the alternator harness bracket.



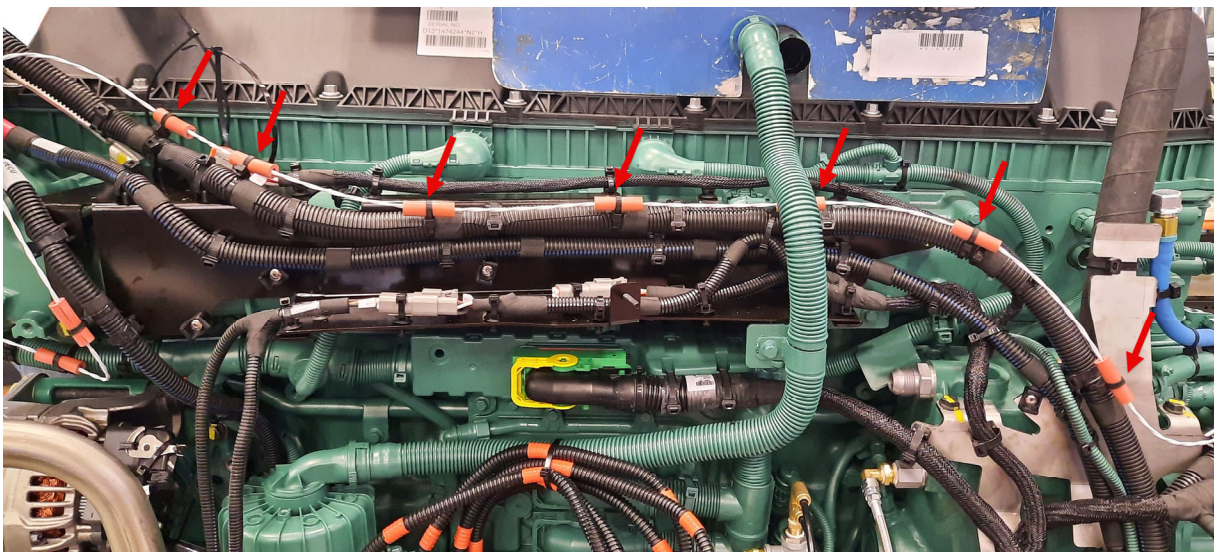
15. At the R.H. corner, route the LTD above the engine main harness. Use grommets 504300 and double loop cable ties 507664.



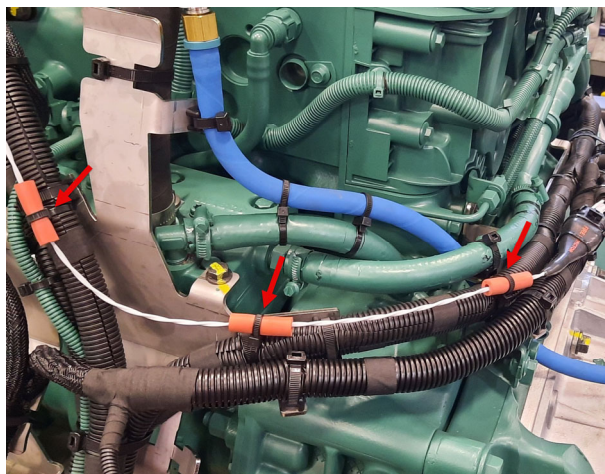
16. Route the LTD over the engine harness bracket, ensuring a minimum bending diameter of 6 inches. Use grommets 504300 and double loop cable ties 507664.



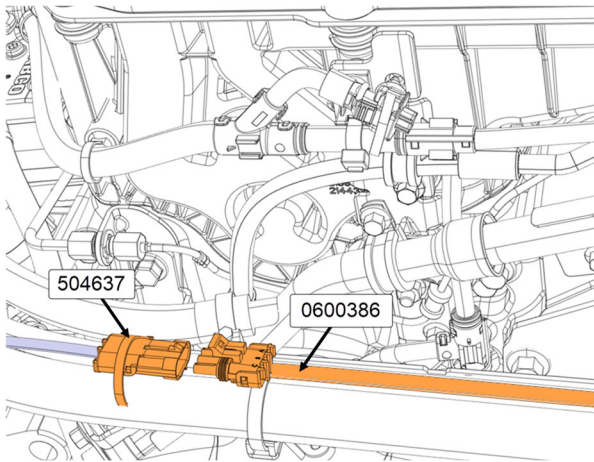
17. Route the LTD along the engine right-hand side. Use grommets 504300 and double loop cable ties 507664.



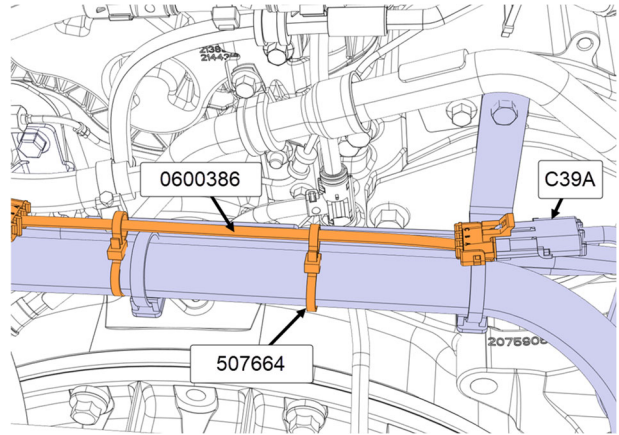
18. Route the LTD connector towards the rear of the engine. Use grommets 504300 and double loop cable ties 507664.



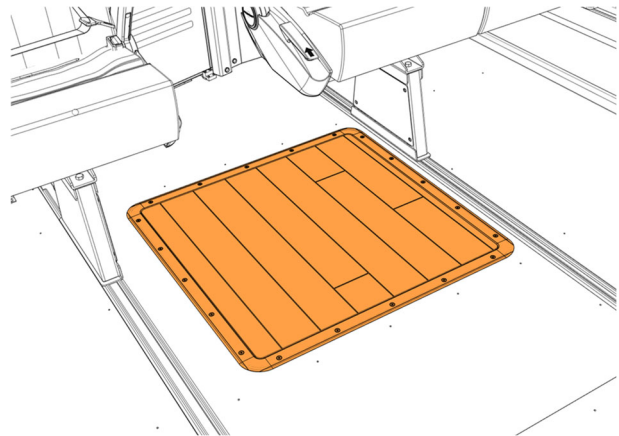
19. Connect the extension harness 0600386 to the LTD.
20. Secure LTD connector with cable-tie 504637.



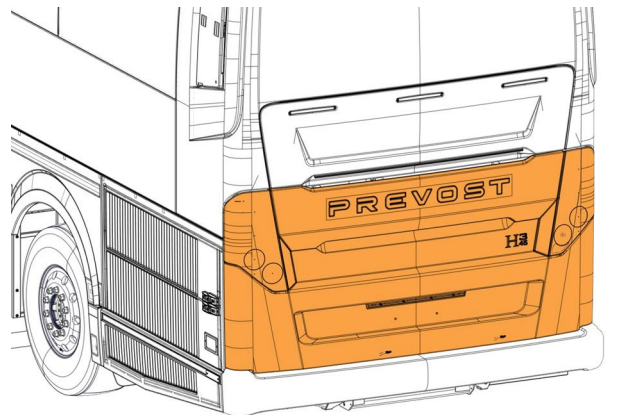
21. Connect the extension harness 0600386 to connector C39A of the engine cradle harness.
22. Secure the extension harness using double loop cable ties 507664.



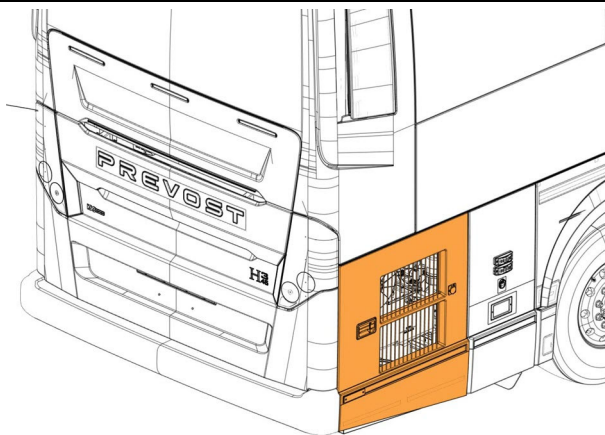
23. Reinstall the engine access hatch, if applicable.



24. Close the engine compartment door.

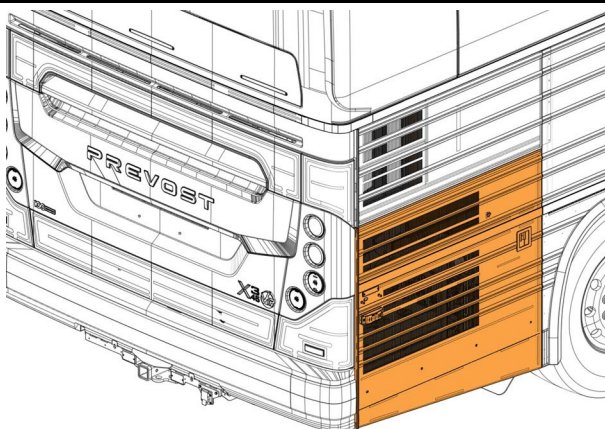


25. Close the compressor door.

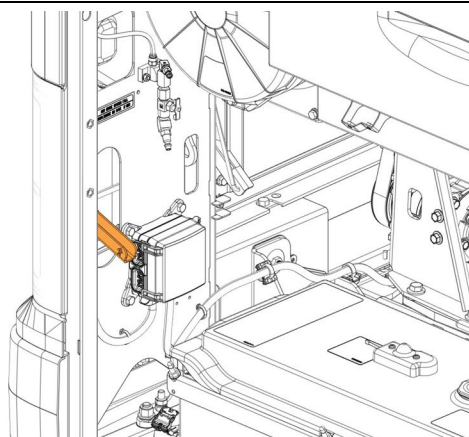


LINEAR THERMAL DETECTOR REPLACEMENT FOR X3 SERIES

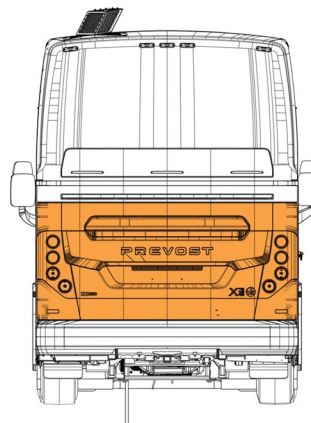
1. Open the compressor door.



2. Lift the release lever to unlatch the engine compartment door.

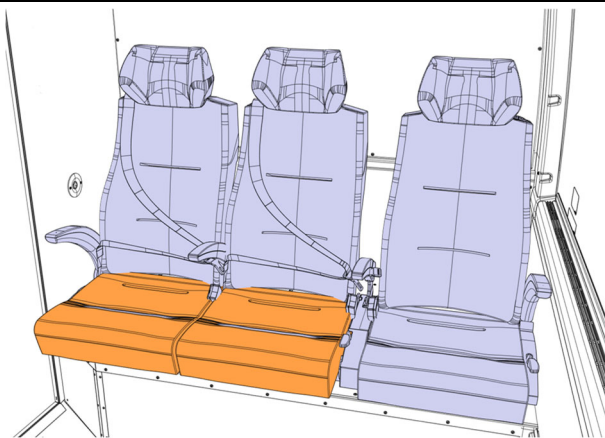


3. Pull the engine compartment door out and up to open.

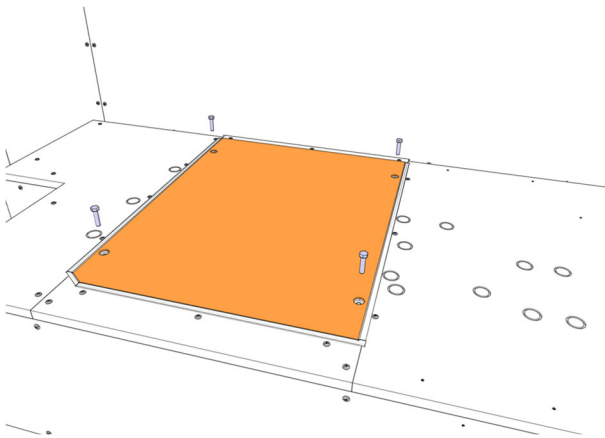


For X3-45 coaches only:

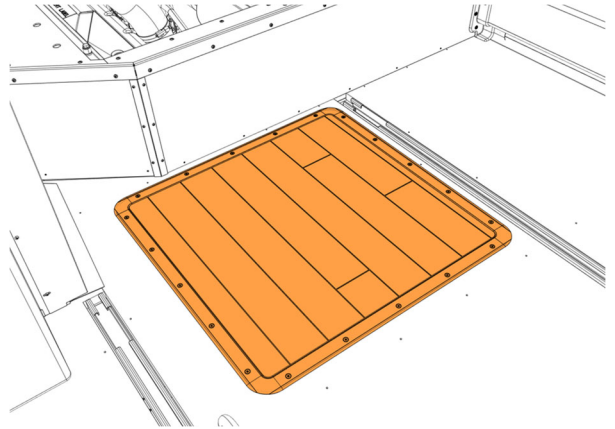
4. Unscrew and remove the two rear seat cushions shown in the figure.
5. Unscrew the seat frame and remove the two seats.



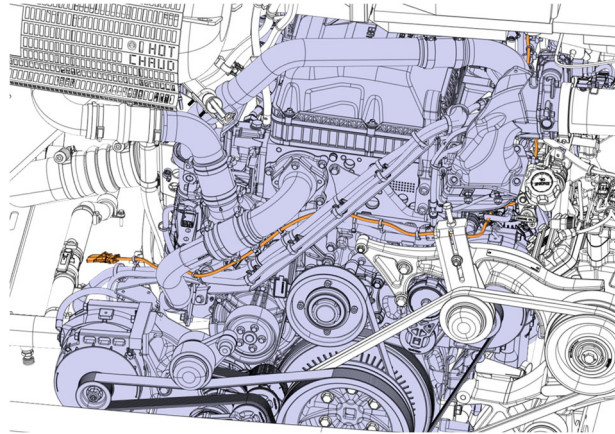
6. Unscrew and remove the engine access panel, to ease access to the engine.



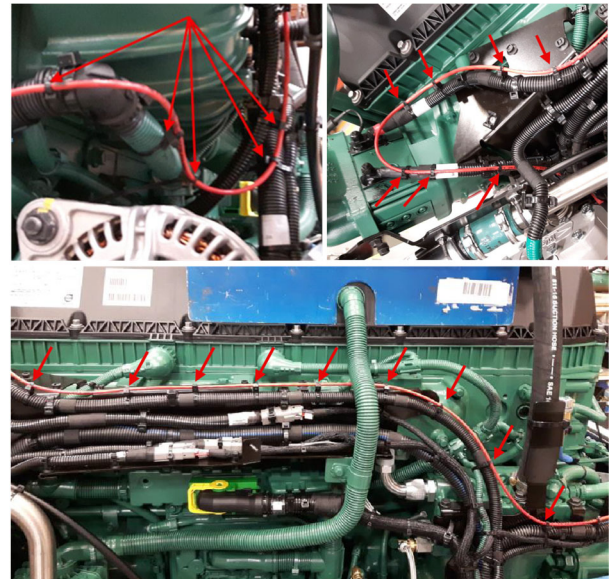
7. For X3-45 coaches only, unscrew and remove the second access hatch located ahead of the bench seats, if needed.



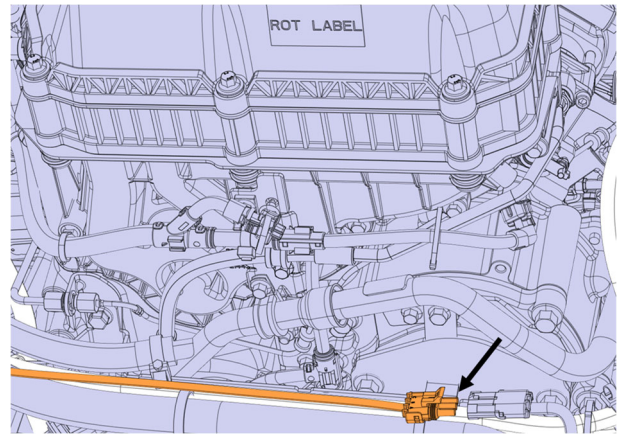
8. Locate the existing LTD (red cable) routed around the engine.



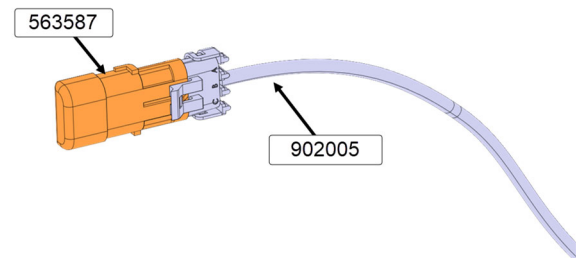
9. Cut all cable-ties securing the existing LTD.



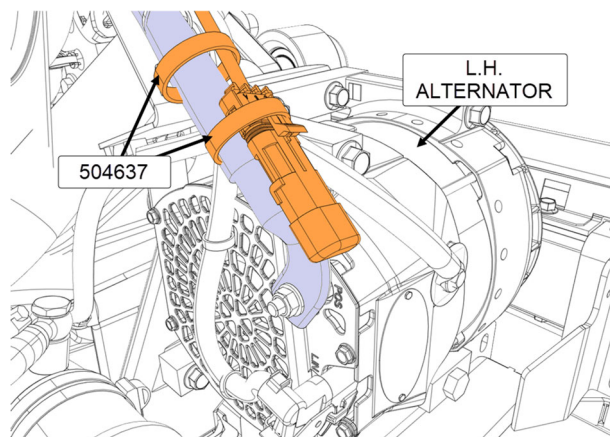
10. Disconnect the existing LTD from connector C39A located at the rear of the engine.
11. Remove and discard the LTD.



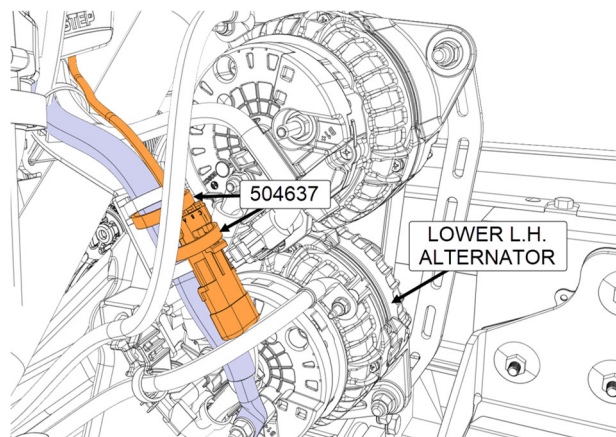
12. Connect end-of-line resistor 563587 to the new LTD 902005.



13. Position the end-of-line resistor connected to LTD above the power cable of (lower) left hand-side alternator, as shown in the figures.
14. Attach the LTD connector to the alternator power cable using cable-ties 504637 (2x).

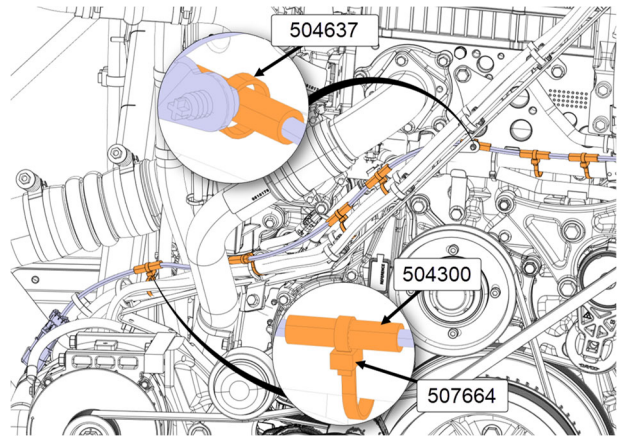


WITH REMY ALTERNATOR

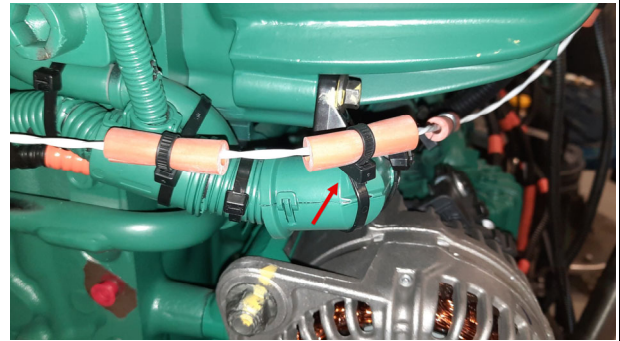


WITH HD10 BOSCH ALTERNATORS

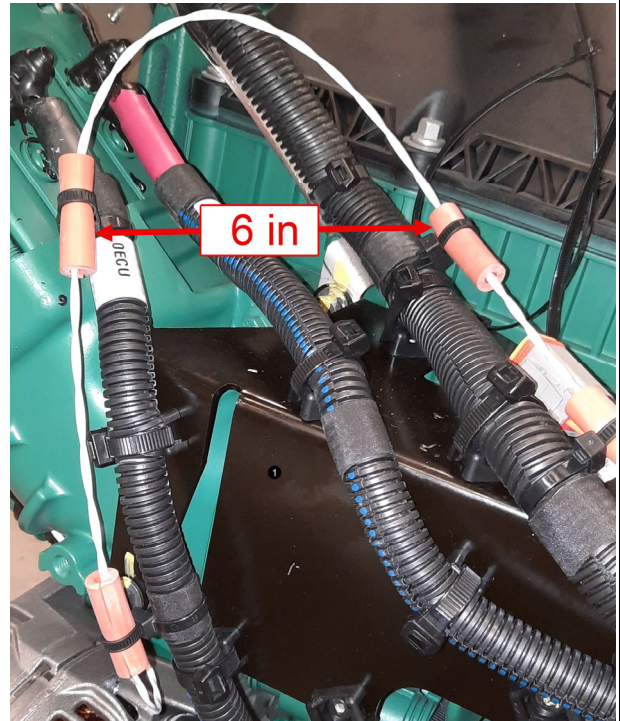
15. Route the new LTD towards the engine right-hand side.
16. For each attachment point of the LTD, install grommet 504300 and secure it to the nearby harness using double loop cable tie 507664.
17. Use cable-tie 504637 for the attachment point on the alternator harness bracket.



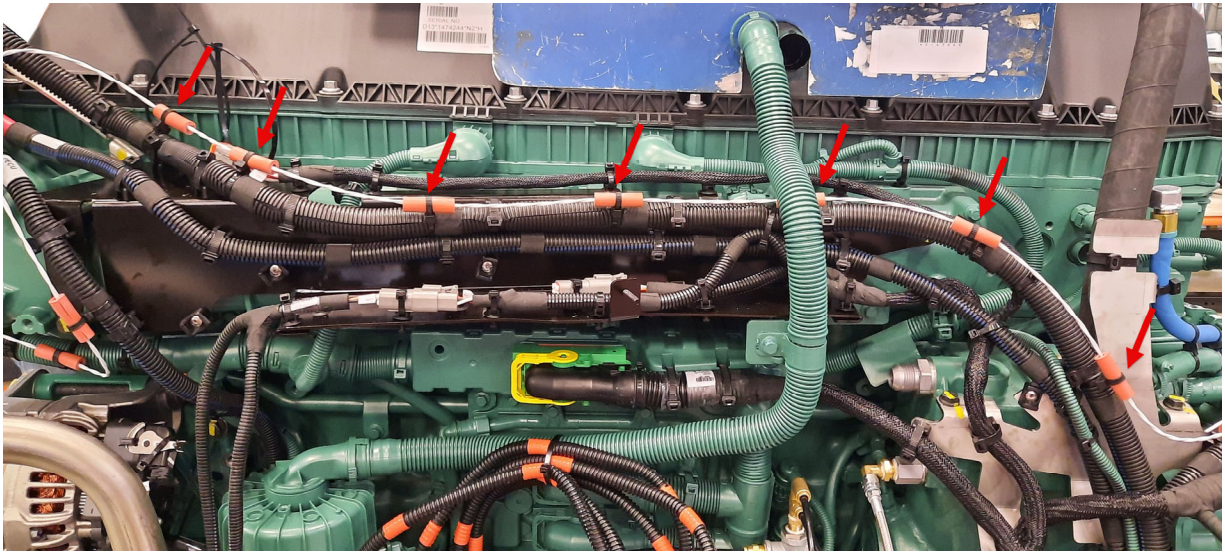
18. At the R.H. corner, route the LTD above the engine main harness. Use grommets 504300 and double loop cable ties 507664.



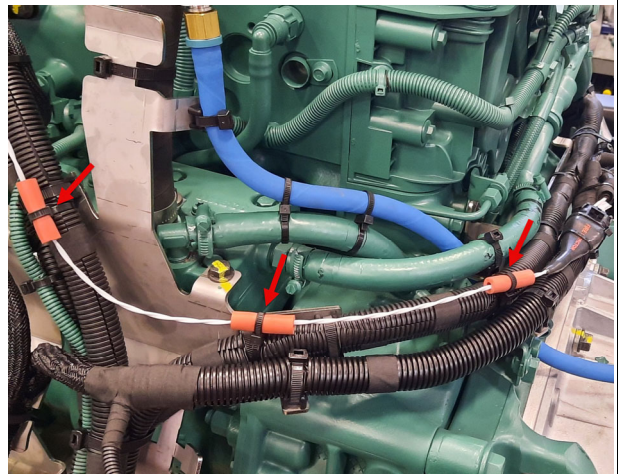
19. Route the LTD over the engine harness bracket, ensuring a minimum bending diameter of 6 inches. Use grommets 504300 and double loop cable ties 507664.



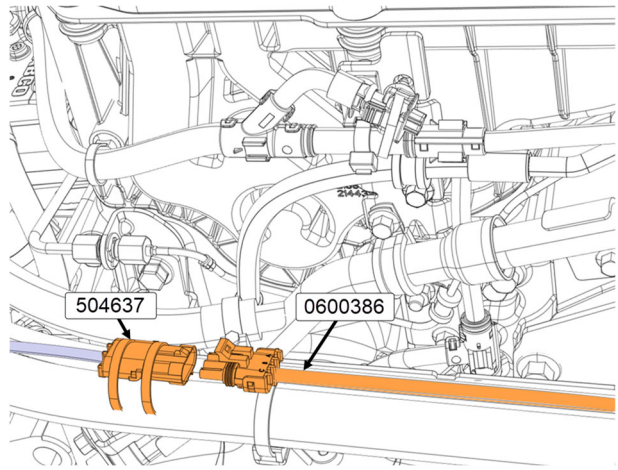
20. Route the LTD along the engine right-hand side. Use grommets 504300 and double loop cable ties 507664.



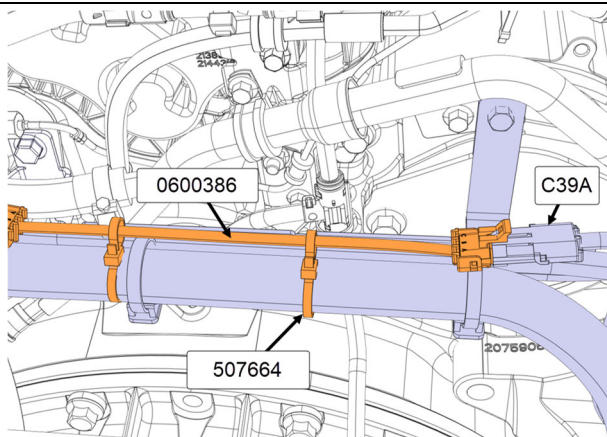
21. Route the LTD connector towards the rear of the engine. Use grommets 504300 and double loop cable ties 507664.



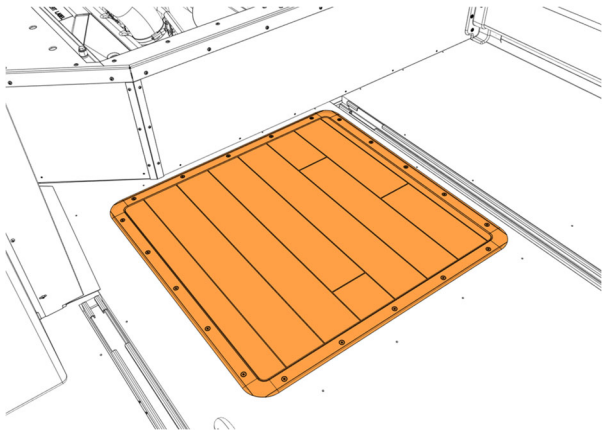
22. Connect the extension harness 0600386 to the LTD.
23. Secure LTD connector with cable ties 504637 (2x).



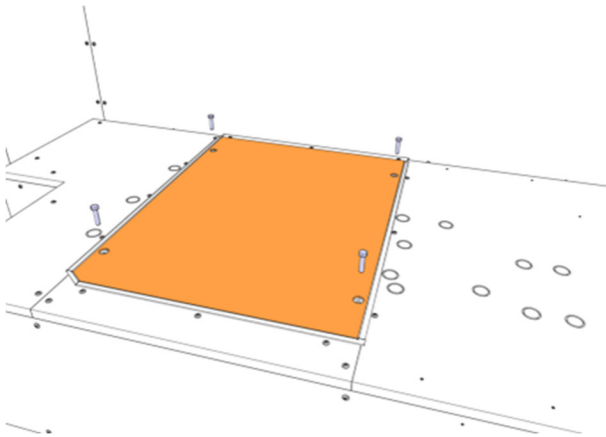
24. Connect the extension harness 0600386 to connector C39A of the engine cradle harness.
25. Secure the extension harness using double loop cable ties 507664.



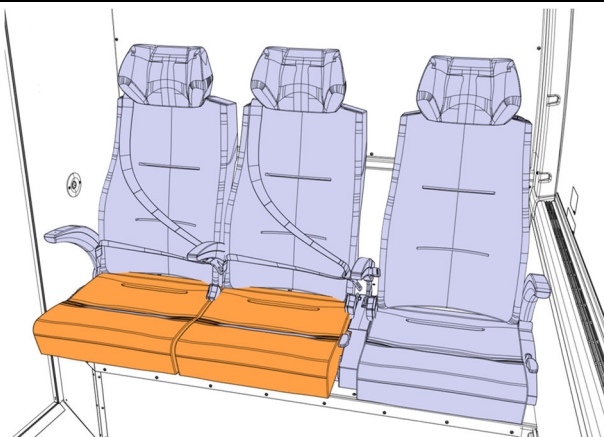
26. Reinstall the floor engine access hatch, if applicable.



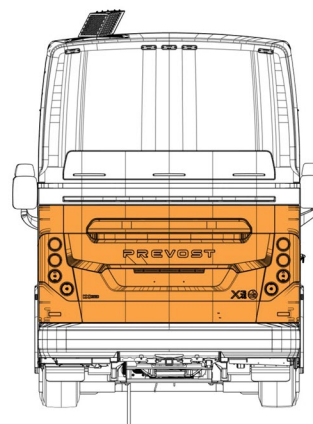
27. Reinstall the other engine access panel.



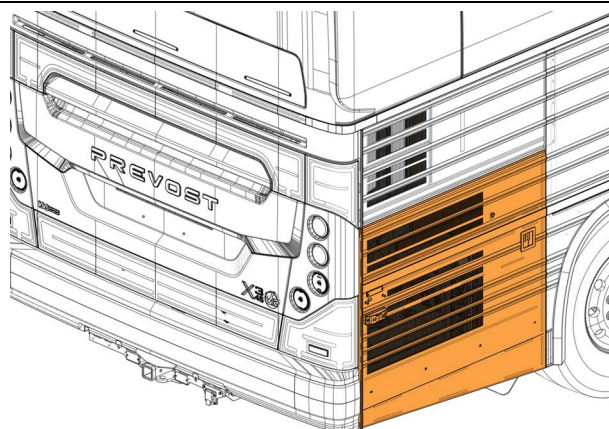
28. Fasten rear seat frames and reinstall seat cushions, if applicable.



29. Close the engine compartment door.



30. Close the compressor door.



PARTS / WASTE DISPOSAL

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