

**MAINTENANCE
INFORMATION**

MI19-32A

DATE :	September 2019	SECTION :	01 ENGINE
SUBJECT :	DETROIT DIESEL DDEC VI DPF HARNESS TO ENGINE HARNESS (MCM) BYPASS HARNESS		

Revision: A

correction A73.J1 changed for A73.J2

10-21-2021

<i>IMPORTANT NOTICE</i>
<i>This modification is recommended by PrevoSt to increase your vehicle's performance. Note that no reimbursement will be awarded for carrying out this modification.</i>

APPLICATION

Model
All US07 vehicles equipped with DDEC VI Detroit Diesel engine

DESCRIPTION

Harness #7770134 is designed to bypass the *Engine Compartment Harness* (PrevoSt part). It connects between two Detroit Diesel harnesses that are the *DPF harness* (10-pin connector) and the *Engine Harness* (31-pin connector).

Harness #7770134 may prevent replacing the complete *Engine Compartment Harness* depending on the issue. Usually the issue is engine shutting down due to DPF temperature spike. A "high exhaust temperature" diagnostic troubleshooting code may be present.

MATERIAL NEEDED

Part No.	Description	Qty
7770134	BYPASS HARNESS (DPF TO MCM)	1
685678	EXTRACTION TOOL FOR AMP 2.5 mm TERMINAL	1

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

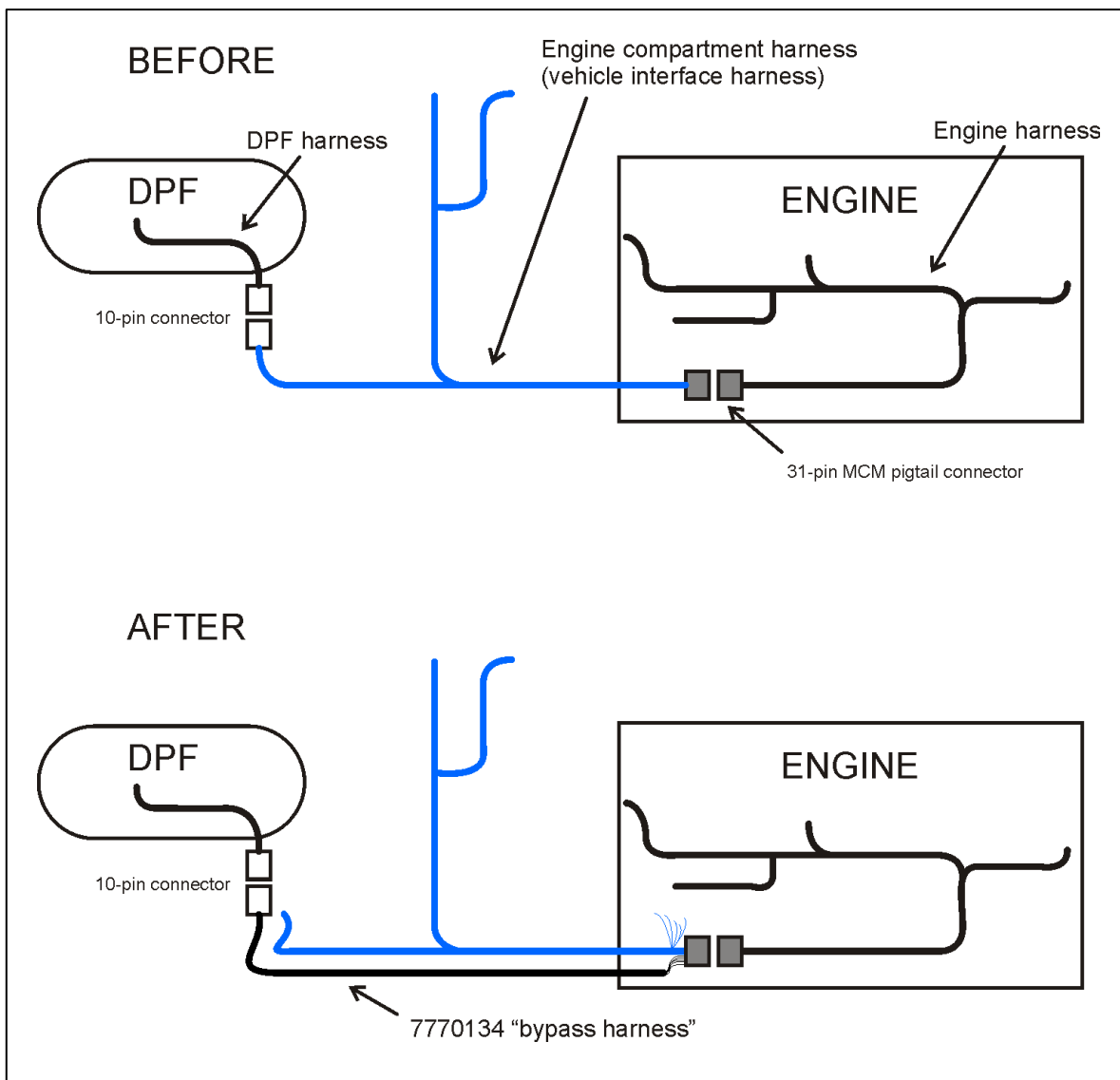
PROCEDURE



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.



DPF HARNESS

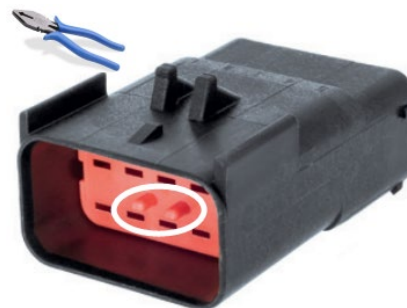
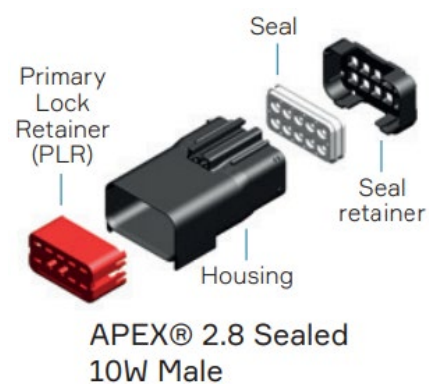
1. Locate connector A74 (10-pin) of the DPF harness.



2. On the A74 connector half found at the end of the engine compartment harness, extract circuits 505, 506, 507, 508, 511, 512, 513, 514.

Terminal extraction

- 1) Remove the PLR. Pull from the posts.
- 2) Use extraction tool (or small screwdriver) to remove the terminals.
- 3) Slightly lift the plastic lock tab in the cavity while pulling on the wire to remove the terminal out of the rear of the connector housing.





3. Replace with circuits 505, 506, 507, 508, 511, 512, 513, 514 of the bypass harness #7770134. See the pin-out table at right.



Connector A74 – 10-PIN DPF harness connector pin-out	
CIRCUIT	PIN
505	1
506	2
507	4
508	3
511	5
512	6
513	7
514	8

ENGINE HARNESS

4. Locate connector A73.J2 (31-pin MCM pigtail) of the engine harness.

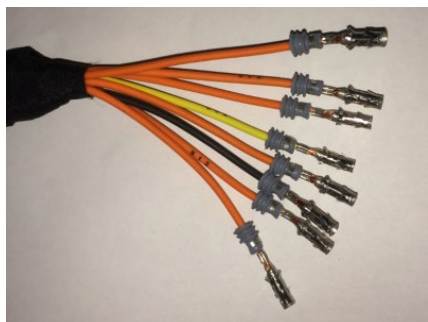


5. On the A73.J2 connector half found at the end of the engine compartment harness, extract circuits 505, 506, 507, 508, 511, 512, 513, 514.

Use extraction tool #685678



6. Replace with circuits 505, 506, 507, 508, 511, 512, 513, 514 of the bypass harness #7770134. See the pin-out table at right.



*Connector A73.J2 – 31-PIN
MCM pigtail connector (engine
harness) pin-out*

CIRCUIT	PIN
505	28
506	29
507	30
508	31
511	17
512	18
513	19
514	24

FINAL STEP

7. Protect all the original circuits from corrosion using good quality adhesive-lined heat shrink tubing. Appropriately secure the harness with nylon ties.
8. Check that there are no related DTC's. You may use DDDL software if available.

PARTS / WASTE DISPOSAL

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

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Or scan the QR-Code with your smart phone

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E-mail us at technicalpublications_prev@volvo.com and type "ADD" in the subject to receive warranty bulletins applicable to your vehicle(s) by e-mail.

