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Coding Information

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Title: 15L Engine Replacement

Applies To: EPA 10 MaxxForce 15L Engines

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/28/2015 - Updated Article keywords.
07/22/2015 - Revised SRT and Parts Information (REVISION 2)

DESCRIPTION

This iknow article provides the steps necessary to retrofit a plant assembled 15L made for a PayStar®

model truck to fit into a ProStar® model truck. Due to clearance issues, the following parts must be replaced in order for the PayStar® engine to fit into the ProStar® chassis correctly.

SERVICE PART(s) INFORMATION

Part Number	Description	Quantity	Ordering Instructions
2513053C91	Kit, PayStar to Prostar	1	Order From Navistar

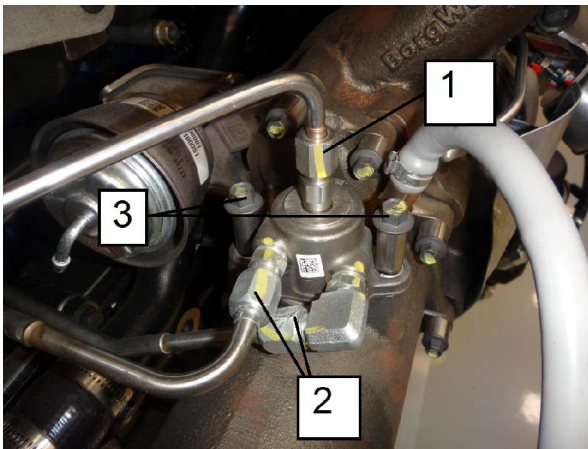
Torque Specs:

For torque specs refer to bottom of this iknow article or the Engine service manual.

REPAIR STEP(s)

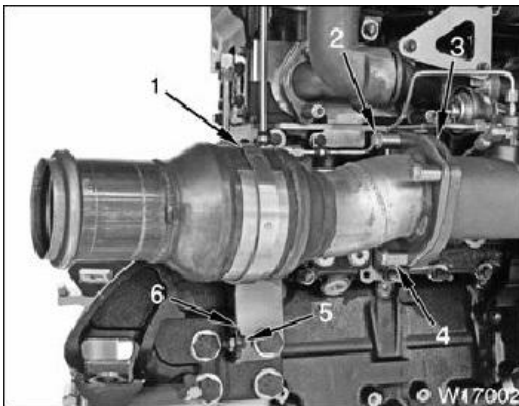
REMOVAL PROCEDURE FOR TURBOCHARGER EXHAUST OUTLET AND RIGHT REAR ENGINE MOUNT

On the engine received, while sitting on the engine pallet remove the Following:



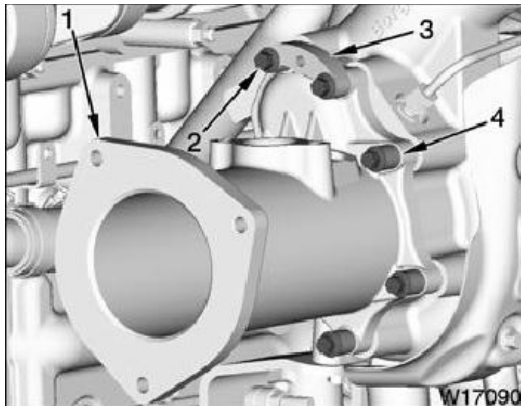
1. Fuel Supply Line
2. Coolant Supply and Return Lines
3. Bolts (2)

1. Remove the Fuel supply line from the Aftertreatment Fuel Injector.
2. Remove the Coolant Supply Lines from the Aftertreatment Fuel Injector.
3. Remove the two mounting bolts and the Aftertreatment Fuel Injector.
4. Save the AFI, bolts, and Gasket for re-use.



1. Pre-DODC Clamp
2. M10 X 50 Bolts
3. Engine Brake Gasket
4. 11 ID X 20 OD X 24L Spacers (3)
5. M10 X 20 Hex Bolts (3)
6. Pre-DODC Support Assembly

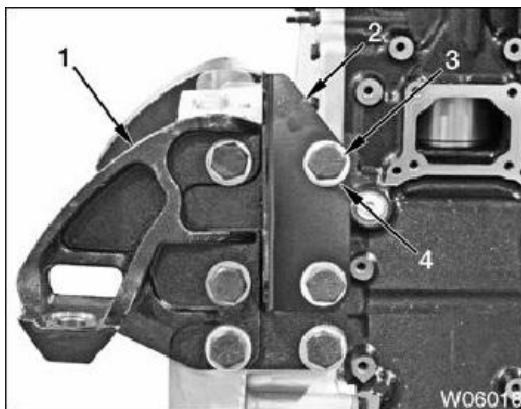
5. Remove Pre-Diesel Oxidation Catalyst (PDODC) clamp.
6. Remove three bolts with Pre-DODC from engine.
7. Save Pre-DODC, Gasket, Pre-DODC support bolts for re-use.



1. Turbocharger Exhaust Duct.
2. M8 X 45 Bolts (7)
3. Heat Shield Spacer
4. 9 I.D. X 16 O.D. X 15L Spacers (5)

8. Remove seven bolts, heat shield spacer, five spacers and turbocharger exhaust duct from engine. Discard turbocharger exhaust duct.

9. Save Bolts, Spacers, and Heat Shield Spacer for re-use.

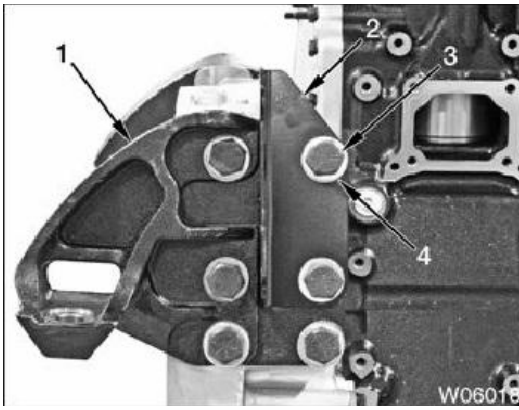


1. Right Rear Engine Bracket
2. Pre-DOC Support Bracket
3. Bolts
4. Washers

10. Remove six bolts, washers, Pre-DOC Support, and right rear mounting bracket from engine. Save bolts, washers, PDOC support, and right rear mounting bracket.

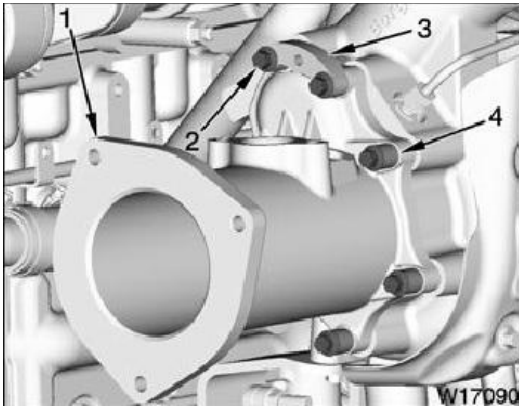
11. Remove right rear mount on the engine being replaced.

INSTALLATION PROCEDURE



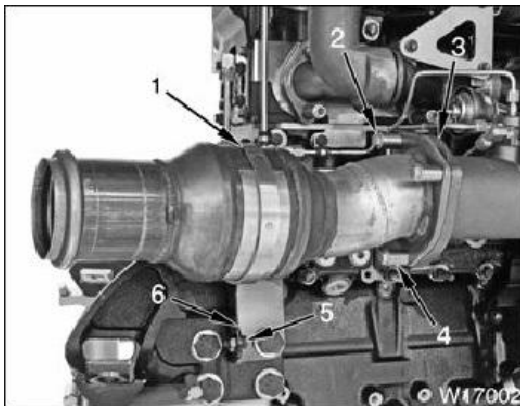
1. Right Rear Engine Bracket
2. Pre-DOC Support Bracket
3. Bolts
4. Washers

1. Install right rear mounting bracket from engine being replace with new Pre-DOC support, six washers and six new bolts.



1. Turbocharger Exhaust Duct.
2. M8 X 45 Bolts (7)
3. Heat Shield Spacer
4. 9 I.D. X 16 O.D. X 15L Spacers (5)

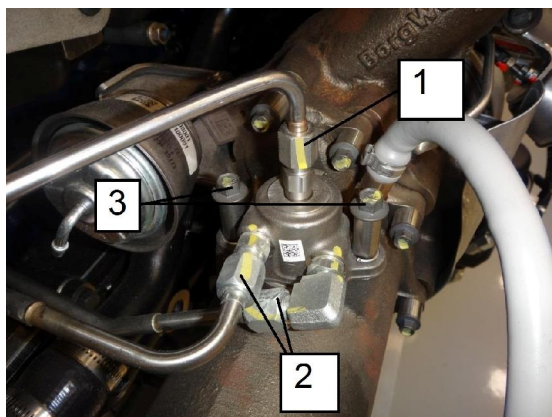
2. Install new turbocharger exhaust duct on engine with five spacers, heat shield spacer, and seven bolts.



1. Pre-DOC Clamp
2. M10 X 50 Bolts
3. Engine Brake Gasket
4. 11 ID X 20 OD X 24L Spacers (3)

- 5. M10 X 20 Hex Bolts (3)
- 6. Pre-DOC Support Assembly

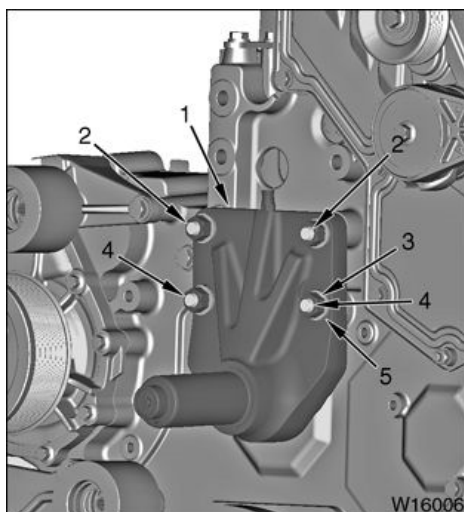
- 3. Install Pre-DOC on engine with three bolts and three spacers.
- 4. Install Pre-DOC clamp.



- 1. Fuel Supply Line
- 2. Coolant Supply and Return Lines
- 3. Bolts (2)

- 5. Install AFI and AFI gasket with 2 bolts.
- 6. Install the coolant supply and return lines onto AFI.
- 7. Install the Fuel supply line onto AFI.

REMOVAL PROCEDURE FOR FAN DRIVE



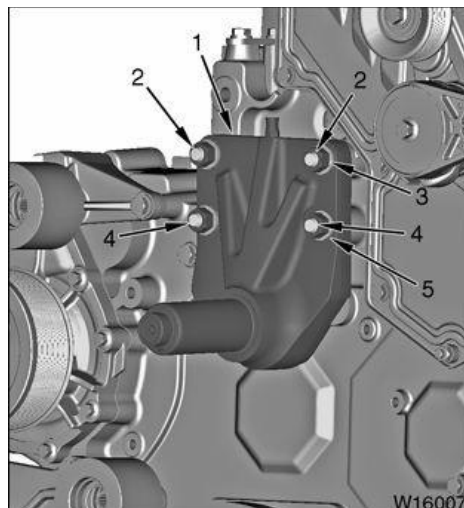
Low mount Horton® fan bracket (typical)

- 1. Horton® fan bracket
- 2. 1/2-13 x 5 5/8 taperlock stud (2)
- 3. 1/2-13 hex nut (4)

4. 1/2–13 x 2.72 taperlock stud (2)
5. 13.5 x 25.5 hardened washer (4)

1. Remove four 1/2–13 hex nuts, four 13.5 x 25.5 hardened washers, and the Horton® fan bracket.
2. Remove two 1/2–13 x 2.72 taperlock studs, discard.

INSTALLATIONAL PROCEDURE FOR FAN DRIVE

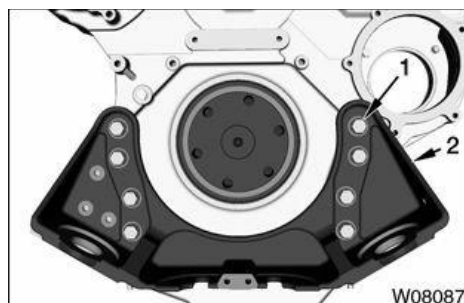


High mount Horton® fan bracket (typical)

1. Horton® fan bracket
2. 1/2–13 x 2.72 taperlock stud (2)
3. 1/2–13 hex nut (4)
4. 1/2–13 x 5 5/8 taperlock stud (2)
5. 13.5 x 25.5 hardened washer (4)

1. Install two 1/2–13 x 2.72 taperlock studs. Tighten the taperlock studs until they bottom out in the front cover.
2. Position the Horton® fan bracket and install four 13.5 x 25.5 hardened washers and four 1/2–13 hex nuts. Tighten 1/2–13 hex nuts to special torque (page 348).

REMOVAL PROCEDURE FOR FRONT ENGINE MOUNT



1. 1/2-13 x 5 in hex flange bolts (8)
2. Front Engine Mount Support

1. Remove 8 bolts, 8 washers and Front Engine Mount Support Bracket from engine.

INSTALLATIONAL PROCEDURE FOR FRONT ENGINE MOUNT

1. 1/2-13 x 5 in hex flange bolts (8)
2. Front Engine Mount Support

1. Install new front engine mounting bracket with new bolts, re-use washers.

REMOVAL PROCEDURE FOR OIL COOLER

Refer to Engine Service Manual for removal of Oil Cooler.

NOTE: Discard Water pump inlet, LTR Supply, LTR bypass, LTR return, ISC Outlet connector, CCV supply hose when removing oil cooler

Remove oil cooler with water pump outlet, DISCARD WATER PUMP OUTLET.

INSTALLATION PROCEDURE FOR OIL COOLER

INSTALL oil cooler with NEW water pump outlet.

NOTE: INSTALL NEW Water pump inlet, NEW LTR Supply HOSE, NEW LTR bypass HOSE, NEW LTR return HOSE, NEW ISC Outlet connector, NEW CCV supply hose when INSTALLING oil cooler

Refer to Engine Service Manual for INSTALLATION of Oil Cooler.

SRT INFORMATION:

USE T-TIME OF 7 HOURS IN WARRANTY CLAIM

Hide Details	Feedback Information
No Feedback Found	Viewed: 1515
	Helpful: 3
	Not Helpful: 16