



Countries: CANADA, UNITED STATES, MEXICO **Document ID:** IK1201266
Availability: ISIS, Bus ISIS, FleetISIS **Revision:** 0
Major System: ENGINES **Created:** 2/3/2015
Current Language: English **Last Modified:** 3/24/2015
Other Languages: NONE **Author:** Aaron Mimbs
Viewed: 326

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Coding Information

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Title: MaxxForce 7 High Pressure Pump Harness Connections**Applies To:** 2010-2013 MaxxForce 7

CHANGE LOG

03/24/2015 - Initial Article Release

DESCRIPTION

This document will guide the user through the installation of tie straps on the MaxxForce 7 High Pressure Fuel Pump Harness 1889577C92. This harness has proven superior to 7080246C91 ([Click here for identifiers](#)) and should be replaced when presented the opportunity. Harness 7080246C91 was implemented on 10/4/2012 beginning with ESN 5314897. All engines built after this time or have had the high pressure fuel pump harness replaced will have the harness 7080246C91. It is imperative to check warranty history for related claims that may have involved replacing the pump harness.

For DTC 3055 diagnostics see [IK1201213](#)

SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
SPN 1244 FMI 5	FVCV open load / circuit
SPN 633 FMI 5	FPCV open load / circuit
SPN 3055 FMI 15/16	FRP below minimum with maximum command
SPN 3055 FMI 1	Low Fuel Pressure at start

Customer Observations or Concerns:

- Malfunction Indicator Light (MIL)
- Loss of Performance

SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
ServiceMaxx or PocketMaxx			

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
KIT, FUEL PUMP HIGH PRESSURE W/ HARNESS	7080839C94	As Required	Kit Contents (Click Here)
KIT, HPP HARNESS REPLACEMENT	2514826C91	As Required	Kit Contents (Click Here)
DIELECTRIC GREASE	LOCALLY	As Required	
FLANGED NUT HEX CAP M12	1893701C1	ONLY if replacing fuel supply lines on ENGINES BUILT BEFORE 04/06/2011	Diagram (Click Here)

DIAGNOSTIC STEPS

No diagnostics (specifically) necessary for this article. However; DTC 3055 FMI XX diagnostics are in [IK1201213](#).

REPAIR STEPS

REMOVAL PROCEDURE:

NOTICE: THE SRT ELEMENTAL STEPS HAVE BEEN ALTERED, IT IS NO LONGER REQUIRED TO REMOVE THE TURBOCHARGERS TO ACCESS THE HIGH PRESSURE FUEL PUMP. FAILURE TO REVIEW THE ALTERED SRT WILL RESULT IN A LOSS OF TIME.

SEE REVISED STANDARD REPAIR TIME STEPS [\(CLICK HERE\)](#)

INSTALLATION PROCEDURE:

1. Obtain both wire ties and high pressure fuel pump harness

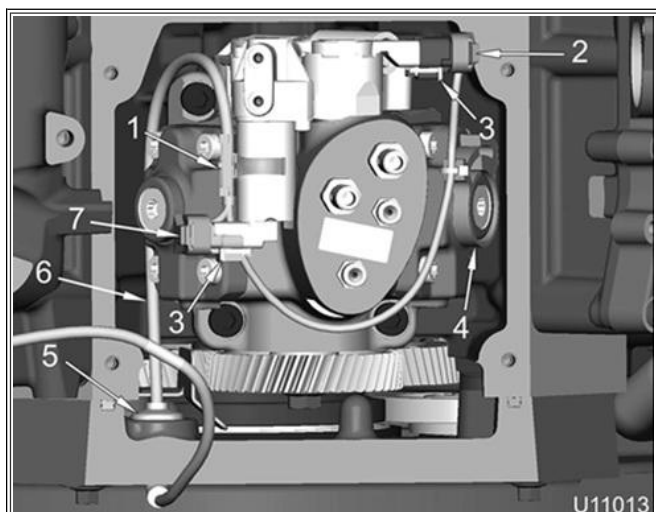


Figure 1: High Pressure Fuel Pump Harness

- Item 1: C-clip
- Item 2: PCV Connector (Black)
- Item 3: Yellow CPA
- Item 4: Snapper Clip
- Item 5: Pass-through Overmold Plug
- Item 6: High Pressure Pump Harness Assembly
- Item 7: VCV Connector (Orange)

2. Route the harness through the bell housing and lay it in the high pressure pump galley



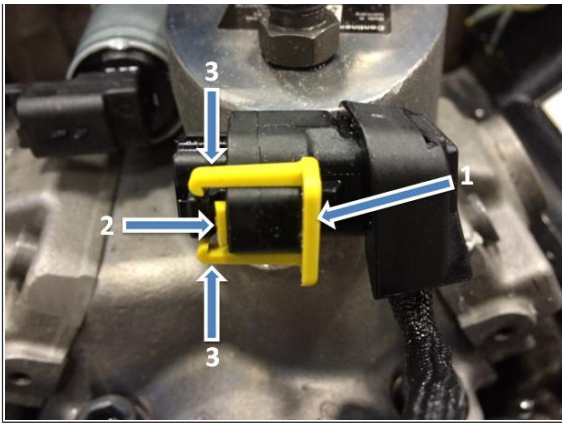


Figure 2: Harness Connector and CPA

Item 1: Yellow CPA
Item 2: CPA Center Tab
Item 3: CPA Hooks

3. Disengage the Pressure Control Valve (Black) Yellow CPA on the harness by pressing down on the center tab and pulling backwards



Figure 3: Fully Disengaged CPA

4. Fully disengage the Yellow CPA by pulling outward on the CPA hooks and again pulling backwards on the CPA

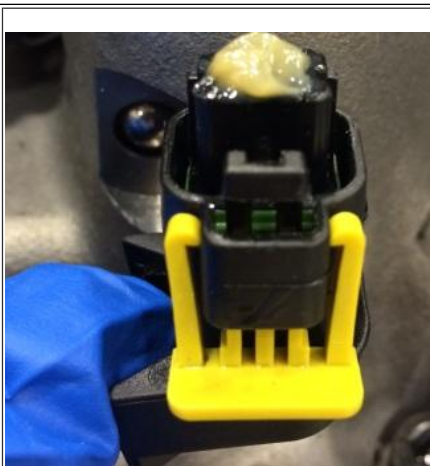


Figure 4: Apply Dielectric Grease

5. Apply Dielectric Grease to the connector terminal openings



Figure 5: Fully Seated PCV Connector with CPA Disengaged

6. Fully seat the harness connector onto the Pressure Control Valve with the CPA remaining disengaged



Figure 6: Wire Tie the Connector Clip

7. Wrap the tie strap around the harness connector over the harness clip where the Yellow CPA center tab rests and tighten down (Note: Provided tie will be blue)



Figure 7: Reengaged CPA (Completed)

8. Reengage the Yellow CPA by pushing it all the way forward until the center tab rests on top of the wire tie and exits the CPA housing fully.
9. Repeat steps 3-8 for the Volume Control Valve connector

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - Engines
Noun:	454 - Pump, Oil / Fuel (High Pressure Injection System)

Standard Repair Times:

Step	Description	Engine	SRT
HIGH PRESSURE FUEL PUMP & DRIVE GEAR, REPLACE	High Pressure Fuel Pump Replacement	2010-2013 MF7	See Manual
ENGINE COMPARTMENT ELECTRONIC HARNESSSES, REPLACE	High Pressure Pump Harness Replacement	2010-2013 MF7	See Manual

OTHER RESOURCES

[Master Service Information Site](#)

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