



Countries: CANADA, UNITED STATES **Document ID:** IK0800508
Availability: ISIS, NotSIR **Revision:** 5
Major System: ELECTRICAL SYSTEM **Created:** 12/11/2014
Current Language: English **Last Modified:** 10/30/2017
Other Languages: NONE **Author:** Steven Bell
Viewed: 538

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Coding Information

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Title: N13 SCR Chassis Overlay Instruction

Applies To: Prostar With N13

CHANGE LOG

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

01/20/2015 - Initial Article Release
 02/02/2015 - Update missing pin information, added harness pic's
 03/20/2015- Corrected ECM 2 connector circuit K99M to K99B

DESCRIPTION

This document will guide the user through the installation process of a chassis harness overlay on a 2013 or later model Prostar with N13 engines. This can be performed once a wiring issue has been diagnosed with no obvious signs of where the short/open is at within the chassis harness.

SYMPTOM(s)- N/A

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
SPN xxxx FMI xx (link to FCAP)	
SPN xxxx FMI xx (link to FCAP)	

Customer Observations or Concerns:

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Depinning Tool	12094429		

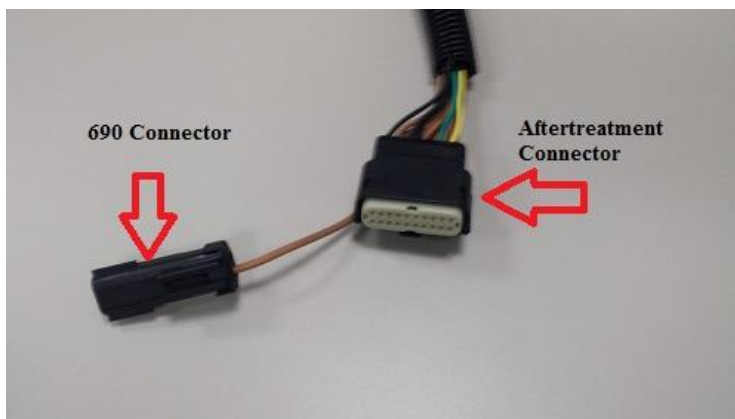
		For the ECM 1 and 2 connector pins and the 2 pin connector #690 (DEF Harness PWR and GND) Found in Kit #ZTSE4443	
Small Flat Screwdriver	TXT126870272	For the 42 way Connector Found in the Essential Harness Kit	
Depinning Tool	49303	For 21 way Engine interface and the PDM under hood connectors Found in the Essential Harness Kit	

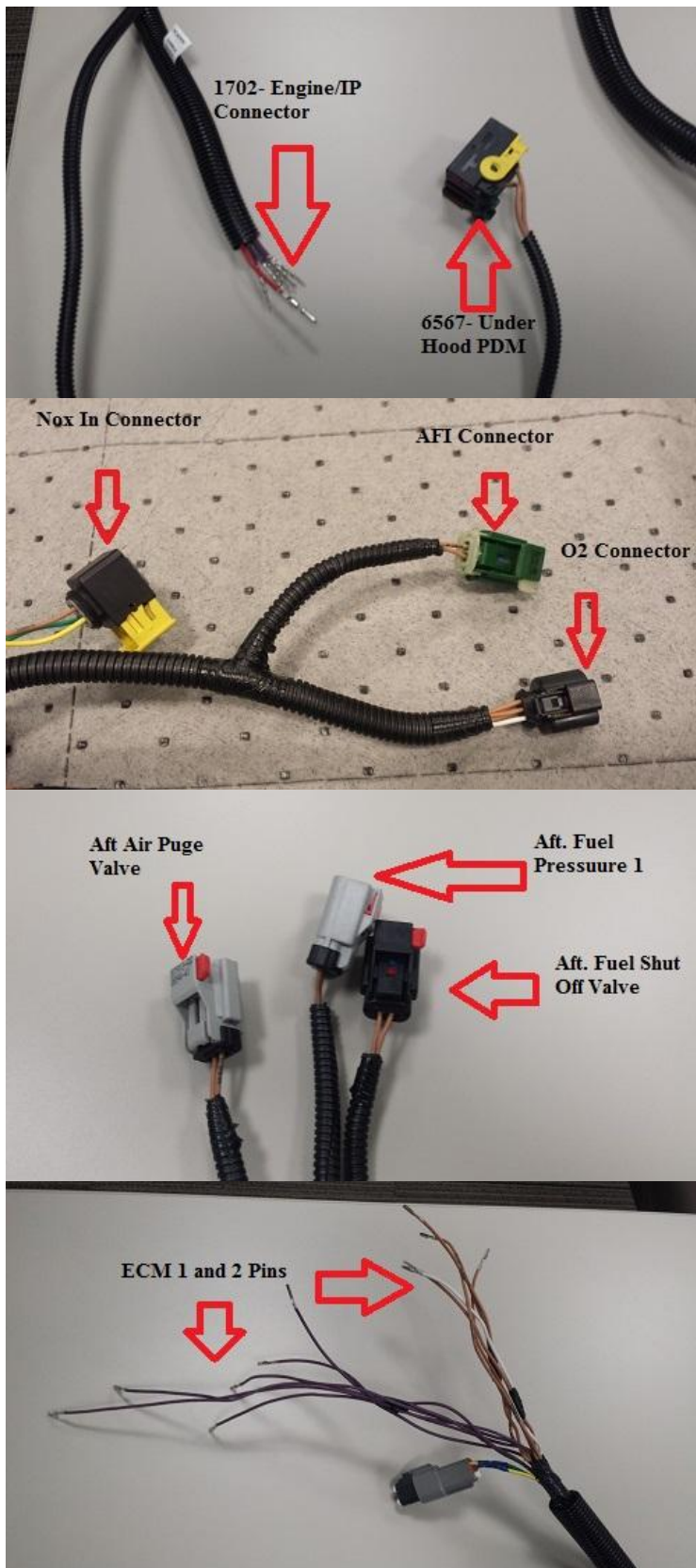
SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Chassis Overlay Harness	3999180F94	1	
Conduit Tubing	6E7Z-14A099-AA	8.5 ft	
Conduit Tubing	4C4Z-14A099-AA	31 Inches	
1/2" Conduit	Bulk Stock	25 Inches	
3/4" Conduit	Bulk Stock	16 Inches	

DIAGNOSTIC STEP(s)- N/A

REPAIR STEP(s)





INSTALLATION PROCEDURE:

1. Disconnect the Batteries

- Make the following changes:

-

6. Moving forward plug in the overlay Lambda, Nox In, and HCl connectors at the back of the engine.
 - a. Nox In Connector Pin #4 will need to be moved from the old connector over to the new overlay connector.

7. Plug in the AFT FP 1, AFT shut off valve and AFT purge air valve all located on LHS of the engine.
8. Wire the overlay harness loose pins into the proper connectors as listed below.

ECM Connector 1 and 2

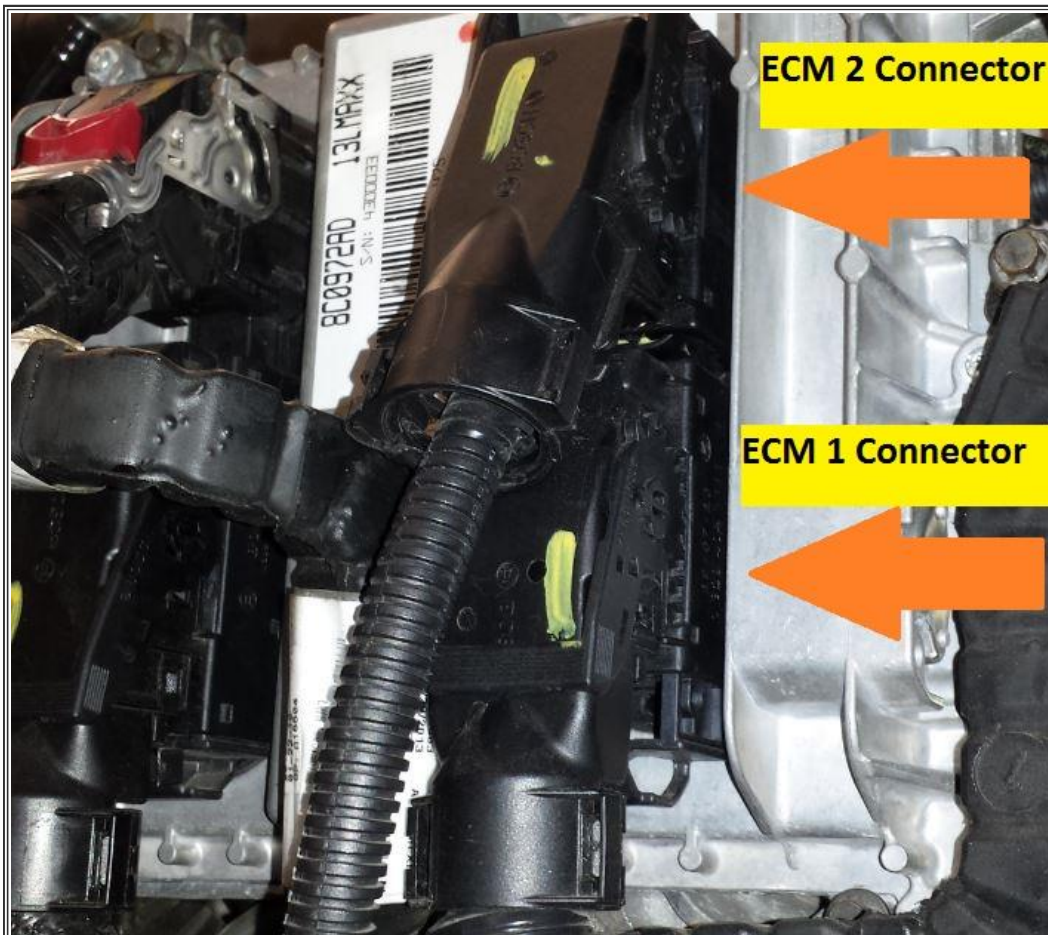


Figure #2- ECM Connector and Overlay Wires

Use tool # 12094429 from kit # ZTSE4443

Circuit/Wire #	Connector	Cavity #
K97M	ECM2	55
K99B	ECM2	54
K97B	ECM 1	23
K97C	ECM 1	36
K97N	ECM 1	11
K99D	ECM 1	50
K95VE	ECM 1	39
K95VB	ECM 1	46
K95VIR	ECM 1	40
K95VC	ECM 1	33
K95VD	ECM 1	53
K95VA	ECM 1	52

Engine/IP Connector #1702



Figure #3- Engine IP 1702 Connector

Use Tool #TXT126870272

Circuit/Wire #	Connector	Pin #
K97M	Engine/IP #1702	24
K99B	Engine/IP #1702	28
K97B	Engine/IP #1702	23
K97C	Engine/IP #1702	22
K97N	Engine/IP #1702	29
K99D	Engine/IP #1702	30
K97VT1	Engine/IP #1702	42

PDM Under Hood- Located Behind The Air Cleaner

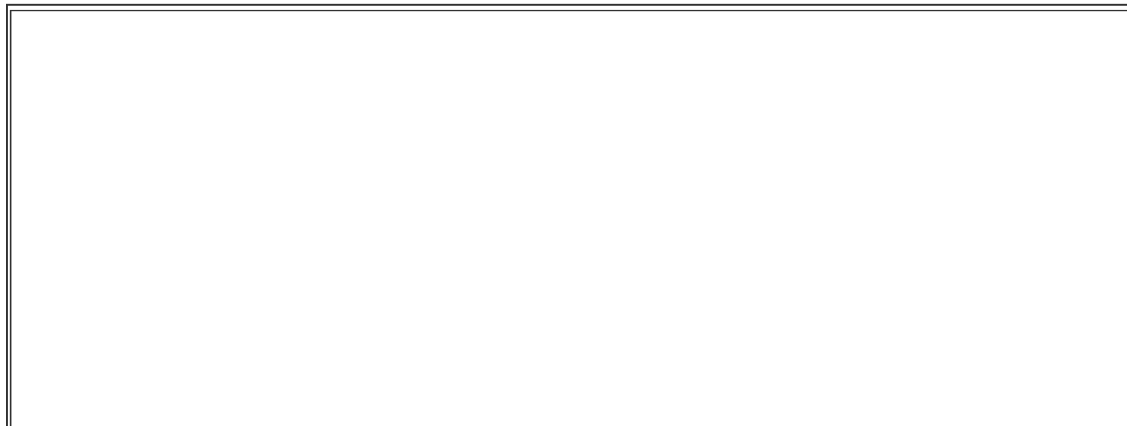
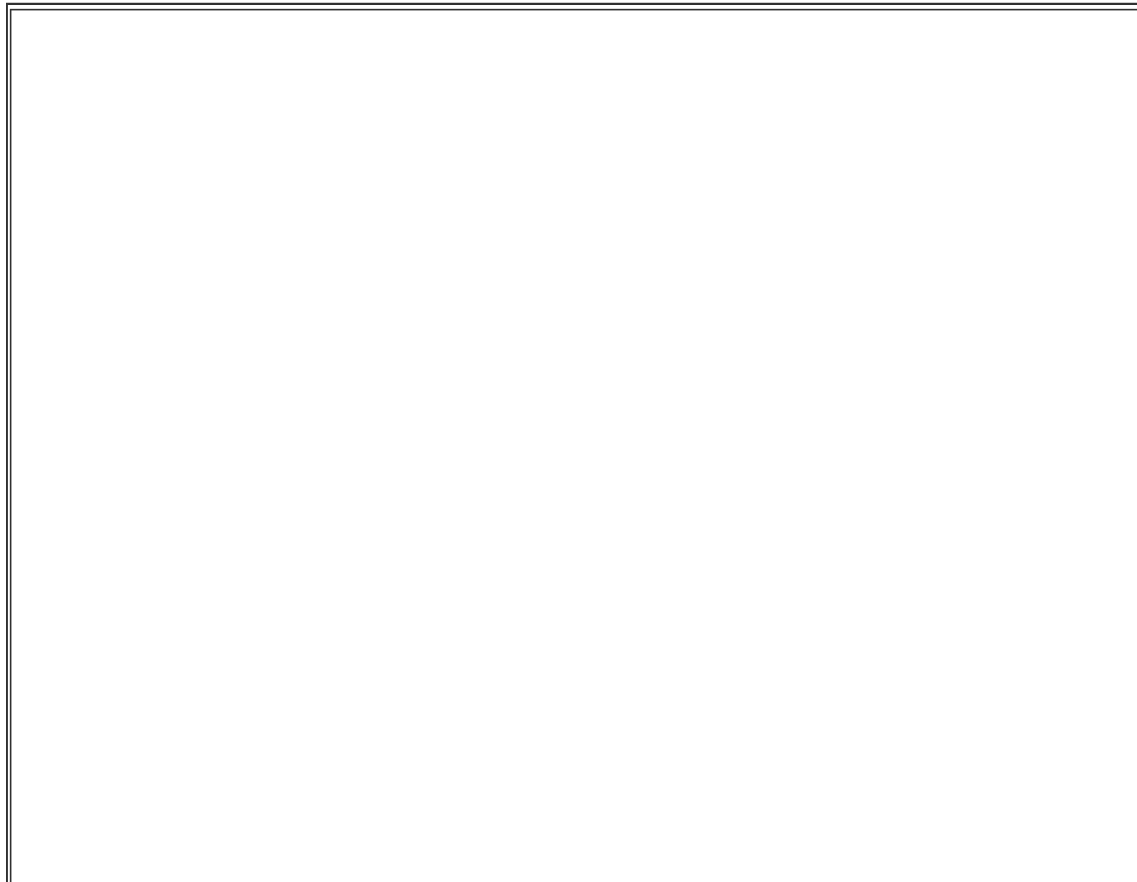




Figure #4- Under Hood PDM

PDM Under Hood Connector- Red wire gets removed from the old connector and installed into cavity 10 on the new connector

21 Way Engine Sensor Interface- Located on LHS of Engine



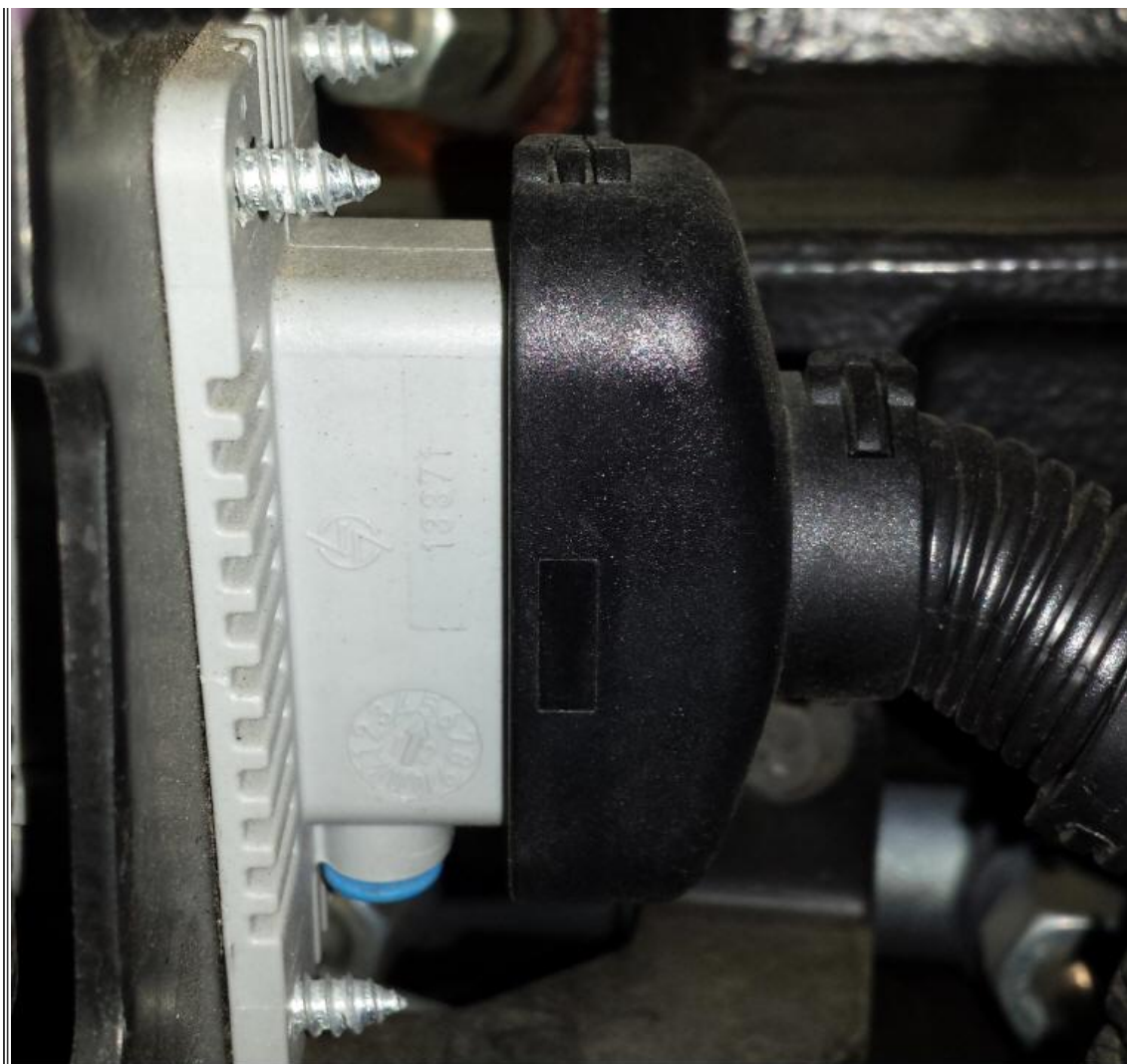


Figure #5- 21 Way Engine Interface Connector

Tool# 49303

Circuit/Wire #	Connector	Pin #
K14FA	21 Way Connector	4
K14F	21 Way Connector	3
Yellow J1939	21 Way Connector	16
Green J1939	21 Way Connector	17

9. Zip tie the overlay harness to the original chassis harness making sure there are no sharp edges that will cut into the harnesses. Also the old chassis harness connectors no longer being used should be secured down with zip ties so they do not rub on anything.

WARRANTY INFORMATION

Warranty Claim Coding:

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Group:	8001
Noun:	801

Standard Repair Time(s):

Claim under standard T-time using the appropriate SRT's below to account for time on this portion of the repair. All punch times must be submitted with the claim.

Description	SRT Link	Hours	Requirement
Wiring Repair, Perform	A08-2001A	.2	Requires Documented Punch Times
Wiring Repair, Perform	A08-2002A	.4	Requires Documented Punch Times
Wiring Repair, Perform	A08-2003A	.6	Requires Documented Punch Times
Wiring Repair, Perform	A08-2004A	.8	Requires Documented Punch Times
Wiring Repair, Perform	A08-2005A	1.0	Requires Documented Punch Times

Claim SRT Example:

Claim Comment Suggestion:

Special Requirement(s):

OTHER RESOURCES

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