Countries:	AUSTRALIA, BAHAMAS, BOLIVIA, BELIZE, CANADA, CHILE, TAIWAN, COLOMBIA, COSTA RICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, GUAM, GUATEMALA, GUYANA, HAITI, HONDURAS, JAMAICA, KOREA, SOUTH KOREA, MEXICO, ARUBA, NEW ZEALAND, NICARAGUA, PANAMA, PERU, PUERTO RICO, RUSSIA, TRINIDAD AND TOBAGO, UNITED STATES, URUGUAY, VENEZUELA, Curaçao	Document ID:	IK1201252
Availability:	ISIS, FleetISIS, NotSIR	Revision:	13
Major System:	ENGINE	Created:	1/7/2015
Current Language:	English	Last Modified:	12/18/2025
Other Languages:	NONE	Author:	Mujtaba Aidroos
Viewed:	14734		

Less Info

Hide Details   Coding Information

Copy Link	Copy Relative Link	Bookmark View My Bookmarks	Add to Favorites	Print	Provide Feedback	Helpful 46	Not Helpful 6

Title: CPA HPFP Test

Applies To: EPA 2010-2012 MaxxForce 11/ 13L --- EPA 2013-2016 N13

CHANGE LOG

DESCRIPTION:

This document describes the process for utilizing the CPA High Pressure Fuel Pump (HPFP) Test

CPA HPFP Test Apply to:

Emission Year	Engine Model
2010-2012	MaxxForce 11/ 13L
2013-2016	N13

Software Release:

Version	Change Description	Release Date
6.0.10.1	High Pressure Fuel Pump (HPFP) Test	3/18/2015

Note: Software must always be current. Refer to the CPA Resource Article

SYMPTOM(s)/ FAULT CODE(s):

Follow the appropriate diagnostic manual for step-by-step diagnostic instruction

Fault Code	iKnow Article	Notes
3055-0	IK1201061	Applies to MF15
3055-15	IK1201063	Applies to MF15

Note: For MF11/13L follow the FCAP

SPECIAL TOOL(s) / SOFTWARE:

Tools required for component removal: Refer to the appropriate engine service manual
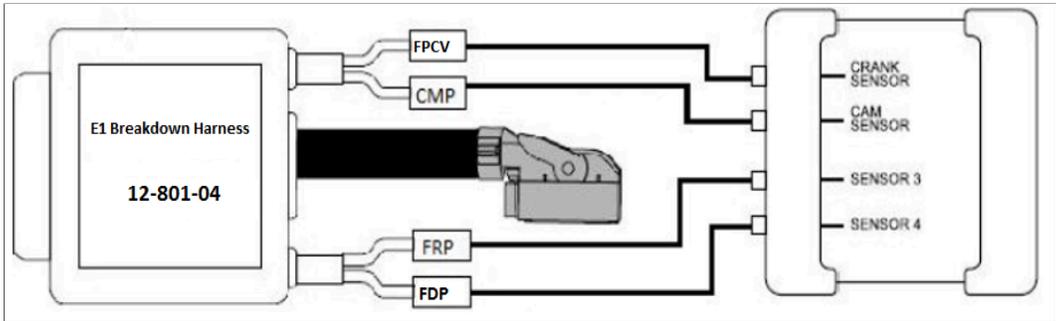To perform CPA HPFP Test properly, the following tools are required:

Tool Description		Tool Number	Comments
EZ-Tech or Computer			Navistar Engine Diagnostics and CPA software must be installed

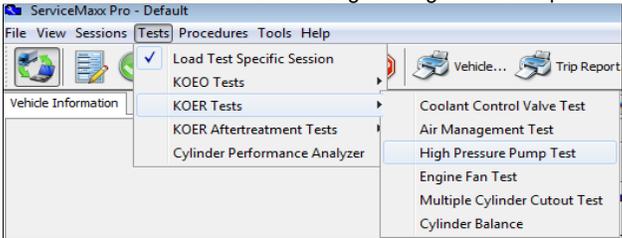|			
RP1210 communication device			NavCom or Nexiq
CPA Module		OE-11178 or 12-999-01-01	
E1 Breakout Harness		12-801-04	Replaces 180-Pin Breakout Box (00-00956-08) and E1/E2 Harness Overlay Kit (00-01462-00)
CPA Extension Harness		12-999-01-05	4 required

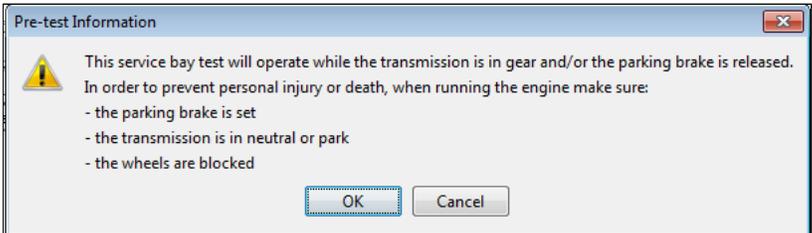Tools Resource Center

Test Descriptions:

Overview of set up:

Preliminary Test & CPA Software Requirements

1. Ensure ServiceMaxx/ Navistar Engine Diagnostics can perform the KOER: High Pressure Pump Test

⚠ WARNING:

Connect the CPA tool only if the vehicle is parked and the parking brake is set. Never drive the vehicle with the CPA tool (or cables) connected to the engine because it may sta

Pre-test Information

⚠ This service bay test will operate while the transmission is in gear and/or the parking brake is released. In order to prevent personal injury or death, when running the engine make sure:
- the parking brake is set
- the transmission is in neutral or park
- the wheels are blocked

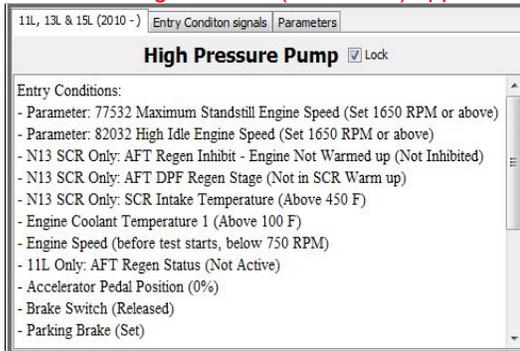OK   Cancel

Signal Descriptions:

Coming Soon

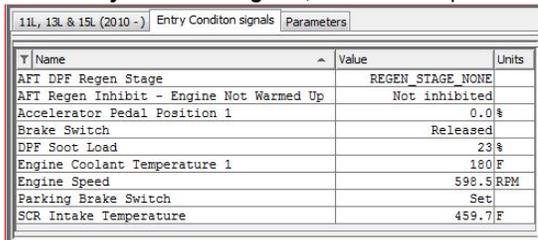## TROUBLESHOOTING: HPFP Test will NOT run in Navistar Engine Diagnostics™

1. TEST ENTRY CONDITIONS

Review Entry Conditions in tab *11L, 13L & 15L (2010-):*
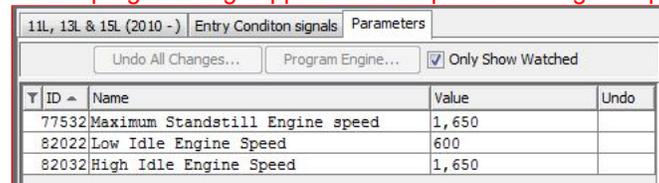Note: AFT Regen Status (Not Active) applies to 11/13L

| 11L, 13L & 15L (2010 -) | Entry Conditon signals | Parameters |

High Pressure Pump ☑ Lock

Entry Conditions:
- Parameter: 77532 Maximum Standstill Engine Speed (Set 1650 RPM or above)
- Parameter: 82032 High Idle Engine Speed (Set 1650 RPM or above)
- N13 SCR Only: AFT Regen Inhibit - Engine Not Warmed up (Not Inhibited)
- N13 SCR Only: AFT DPF Regen Stage (Not in SCR Warm up)
- N13 SCR Only: SCR Intake Temperature (Above 450 F)
- Engine Coolant Temperature 1 (Above 100 F)
- Engine Speed (before test starts, below 750 RPM)
- 11L Only: AFT Regen Status (Not Active)
- Accelerator Pedal Position (0%)
- Brake Switch (Released)
- Parking Brake (Set)

Under *Entry Condition signals,* review the outputs and compare to entry condition requirements:

| 11L, 13L & 15L (2010 -) | Entry Conditon signals | Parameters |

Name	Value	Units
AFT DPF Regen Stage	REGEN_STAGE_NONE	
AFT Regen Inhibit - Engine Not Warmed Up	Not inhibited	
Accelerator Pedal Position 1	0.0	%
Brake Switch	Released	
DPF Soot Load	23	%
Engine Coolant Temperature 1	180	F
Engine Speed	598.5	RPM
Parking Brake Switch	Set	
SCR Intake Temperature	459.7	F

Under *Parameters*, change as needed based on entry condition requirements: If parameters are greyed out, in order to proceed with HPFP test, contact programming support for a template to change the parameters as needed.

| 11L, 13L & 15L (2010 -) | Entry Conditon signals | Parameters |

| Undo All Changes... | Program Engine... | ☑ Only Show Watched |

ID	Name	Value	Undo
77532	Maximum Standstill Engine speed	1,650	
82022	Low Idle Engine Speed	600	
82032	High Idle Engine Speed	1,650	

WARRANTY INFORMATION

CPA Test Module	WAC can be issued for components listed	Navistar Engine Model	Example WAC	Related Articles
13L High Pressure Fuel Pump (HPFP) Module	• High Pressure Fuel Pump (HPFP)	2010-2016 MF11/13L/ N13	XXXX	

All Component Replacement Requirements are temporarily covered under policy letter: **WPL2800126**
Reference the Warranty Resource Center for the most recent iApproval/ Warranty Authorization Code (WAC) requirements letter
Refer to the **Warranty Coding Manual** for Group and Noun Codes

Warranty Claim Coding:
Refer to the Warranty Coding Manual for Group and Noun Codes.

Group:	12000 - Engine

Noun:	454 - High Pressure Fuel Pump

Standard Repair Times:

Description	SRT Link
12 - CYLINDER PERFORMANCE ANALYZER (CPA) TOOL, DIAGNOSIS	[CPA Diagnostics](#)

[SRT Manual](#)

OTHER RESOURCES

[Master Service Information Site](#)

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