



Countries: CANADA, UNITED STATES Document ID: IK1201360
 Availability: ISIS, NotSIR Revision: 3
 Major System: ENGINES Created: 2/14/2017
 Current Language: English Last Modified: 6/7/2017
 Other Languages: NONE Author: Marcelo Sahagun
 Viewed: 1197

[Less Info](#)

Hide Details Coding Information

Copy Link 	Copy Relative Link 	Bookmark View My Bookmarks	Add to Favorites 	Print 	Provide Feedback 	Helpful 18	Not Helpful 0
---------------	------------------------	---	----------------------	-----------	----------------------	-------------------	----------------------

Title: Cylinder Performance Analyzer (CPA) Resource Center

Applies To: ALL Engine and Chassis Models

CHANGE LOG

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

06/07/2017- Minor edits
 06/02/2017- Updated Software Version
 04/10/2017- Initial Article Release

IF THERE IS ANY OTHER INFORMATION YOU WOULD LIKE TO HAVE ADDED TO THIS RESOURCE ARTICLE PLEASE WRITE IT IN THE Feedback SECTION

DESCRIPTION

This document will serve as a resource center for all areas related to the Cylinder Performance Analyzer (CPA)

The CPA tool is an easy to use high speed data acquisition module capable of detecting detailed signals. Navistar utilizes this tool to accurately diagnose:

1. Engine Performance Concerns
2. Chassis Performance Concerns

VERSION RELEASE TIMELINE

Most up to date version: **8.8.21.1**, Released: **05/23/2017**

The table below outlines the major release dates for CPA Modules:

Version	Change Description	Release Date
8.8.8.0	Last official release	1/22/2017
8.1.1.1	Snapshot Viewer Launch	3/12/2016
7.8.8.67	13L Full Load Blow By Launch	1/28/2016
7.1.8.88	Base Engine Analysis Module (BEAM) Launch	12/14/2015
6.0.10.1	Big Bore High Pressure Fuel Pump (HPFP) Test Launch	03/18/2015
5.0.10.5	MED Duty HPOP Test Update: Under Valve Cover Repair Strategy	12/08/2014
3.0.0.16	MED Duty High Pressure Oil Pump (HPOP) Test Launch	01/15/2014
2.0.0.148	Warranty Authorization Code (WAC) for 2 injectors in Injector Misfire Detection	09/25/2013
1.0.0.329	MED Duty Injector Misfire Detection Launch	03/20/2012

CPA SOFTWARE

Verify CPA software is up to date. Software version can be identified in two ways:

1. Launching the CPA software from computer and viewing the home screen (Picture below)



2. Launching the CPA Software Finder. Click link/ Unzip/ launch exe: [CPA Software Version Finder](#)

If Software version is NOT current:

1. Installation/Upgrading Instructions and 1st Time Registration: [IK2700062](#)
2. OnCommand EZ-Tech Download Center: [IK2700090](#)
3. EZ-Tech Download Center: [IK2700065](#)


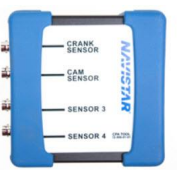

SPECIAL CPA TOOL(S)

CAUTION:

Modules can fail due to overvoltage and incorrect polarity set-up. Ensure battery charger is set to low

Any individual harness required to perform a specific CPA test will be under the **CPA Test Module(s)** section below. Every individual CPA Module has a related sub-article with the necessary tool(s) with part numbers to complete a test.

Primary Data Acquisition Modules:

Tool Description	Tool Number	Comments
 0000056510	OE-11178	1st Gen CPA Module
	12-999-01-01	2nd Gen CPA Module
	12-999-05-01	Pressure Plus Module

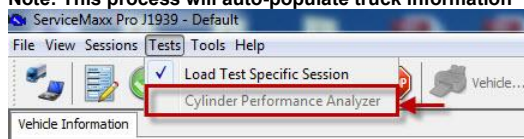
[Tools Catalog](#)

OPENING CPA SOFTWARE

The CPA software can be accessed in two ways:

1. Launch CPA software through ServiceMaxx/ Navistar Engine Diagnostic (NED) (Navistar recommended)
 - Open ServiceMaxx/ Navistar Engine Diagnostic (NED) and Log In
 - Under TESTS select Cylinder Performance Analyzer

Note: This process will auto-populate truck information



2. Launch CPA software as standalone

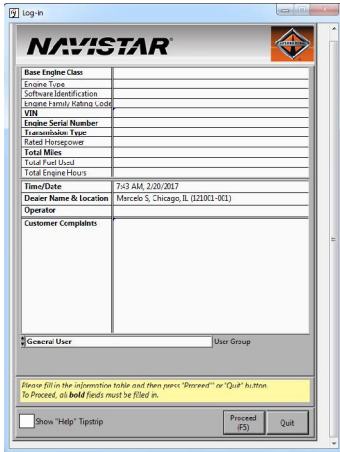
- Locate CPA software icon on desktop (Picture Below) or under **All Programs** list

- Double click icon



- Accurately fill in **ALL** fields in **BOLD**

Note: If information is NOT accurate, Navistar Warranty could potentially be denied



CPA TEST MODULE(S)

CPA Module	Engine Applications	Related iKnow Article	Notes
Injector Misfire Detection	<ul style="list-style-type: none"> • EPA 2004-2006 DT 466/570 • EPA 2007-2009 MF DT/9/10 • EPA 2010-2013 MF DT/9/10 • EPA 2014-2017 N9/ N10 	DT/9/10: IK1201363	
I6 High pressure Oil Pump (HPOP) Module	<ul style="list-style-type: none"> • EPA 2007-2009 MF DT/9/10 • EPA 2010-2013 MF DT/9/10 • EPA 2014-2017 N9/ N10 	IK1200991	
13L High Pressure Fuel Pump (HPFP) Module	<ul style="list-style-type: none"> • EPA 2013-2016 N13 	IK1201252	
Base Engine Analysis Module (BEAM)	<ul style="list-style-type: none"> • EPA 2007-2016 MF7 • EPA 2007-2009 MF DT/9/10 • EPA 2010-2013 MF DT/9/10 • EPA 2014-2017 N9/ N10 • EPA 2010-2012 MF13 • EPA 2013-2016 N13 	BEAM Overview: IK1201369 BEAM Details: IK1201325 MF7: IK1201222	
13L Full Load Blow-by	<ul style="list-style-type: none"> • 2013-2014 N13: ESN 126HM2Y4300000 to 4315712 • 2015 N13: ESN 124KM2Y4400000 to 4401769 	IK1201329	
Snapshot Viewer (SSV)	<ul style="list-style-type: none"> • EPA 2010-2012 MF 11/ 13L 	N/A	
Vibration Analyzer	<ul style="list-style-type: none"> • All Chassis Models 	N/A	
Recorder	<ul style="list-style-type: none"> • All Chassis Models • All Engine Models 	N/A	

WARRANTY INFORMATION

CPA Test Module	WAC can be issued for components listed	Navistar Engine Model	Example WAC	Related Articles
Injector Misfire Detection	<ul style="list-style-type: none"> • 1 or 2 Fuel Injectors 	2004-present MF DT/9/10/ N9/ N10	XXXX	
I6 High Pressure Oil Pump (HPOP) Module	<ul style="list-style-type: none"> • High Pressure Oil Pump (HPOP) • 6 Fuel Injectors w/ 6 Oil Inlet Adapters (Puck) • Injection Control Pressure (ICP) Sensor <p>Note: WAC containing a combination of above components may be issued</p>	2007-present MF DT/9/10/ N9/ N10	XXXX_XX	ICP Sensor Policy: WPL1200001
13L High Pressure Fuel Pump (HPFP) Module	<ul style="list-style-type: none"> • High Pressure Fuel Pump (HPFP) 	2010-2016 MF13/ N13	XXXX	
Base Engine Analysis Module (BEAM)	<ul style="list-style-type: none"> • 1 or 2 or 6 Power Cylinders 	2007-2016 MF7 2010-2017 MFDT 2010-2016 MF13	XXXX_XX_X	Power Cylinder Replacement: IK1201344
13L Full Load Blow-by	<ul style="list-style-type: none"> • Anti-Polishing Ring (APR) Kit 	2010-2016 MF 11/13L/ N13	XXXX_XX	BB APR Kit: IK1201157 BB APR Kit: IK1201260
Snapshot Viewer	<ul style="list-style-type: none"> • Diesel Oxidation Catalyst (DOC) 	2010-2012 MF11/13L	XXXX_XX	

- 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.

STANDARD REPAIR TIME(S)

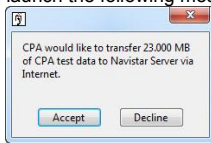
Description	SRT Link
12 - CYLINDER PERFORMANCE ANALYZER (CPA) TOOL, DIAGNOSIS	CPA Diagnostics

CPA DATA FILE ARCHIVE

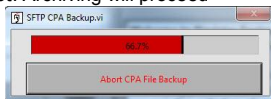
CPA software allows files to transfer from EZ-Tech computer to Navistar network. There are two ways this can be accomplished:
Note: For proper function CPA software must be at version 7.8.8.88 or later

1. Software Prompt:

At initial software launch the following message is displayed



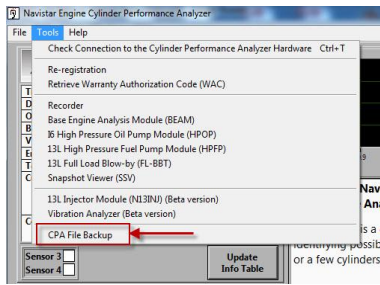
If select **Decline**: Home screen is displayed
 If select **Accept**: Archiving will proceed



2. Manual Prompt:

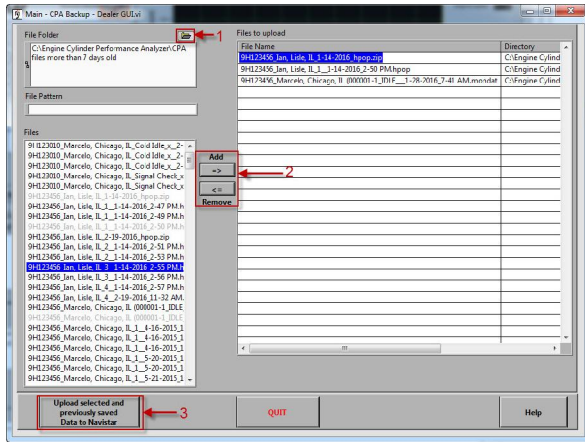
Note: Ez-Tech must be online for proper function
Note: Issues may arise due to administrative firewall protection

- From CPA Home screen> Under Tools> Select CPA File Backup



• CPA Backup Screen

1. Click Folder Icon> Ensure **C:\Engine Cylinder Performance Analyzer** is selected> Click **Current Folder**
2. Select Desired data files> Click **Add** or **Remove** as needed
3. Once file selecting is complete> Click **Upload selected and previously saved Data to Navistar**



Data Archive Issue- "File Archiving Failed" message troubleshooting (For IT personnel):

CPA software will prompt to upload files to SFTP server (Port 22) but dealer firewall is not allowing server to communicate with computer. Please ensure computer is able to open ports 49000 and up so a proper hand shake can be done with Navistar server. Some antivirus and security applications installed on the dealer network might be responsible as well for this communication problem. Any additional support: Open an **EZ-Tech Support Case file**

OTHER RESOURCES

[Master Service Information Site](#)

Hide Details
Feedback Information

Viewed: 1196

Helpful: 18

Not Helpful: 0

No Feedback Found

Copyright © 2017 Navistar, Inc.