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Author: Kendall Prohett

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Coding Information

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Title: 500K Engine Module Programming

Applies To: N13, 500K, N9/N10, A26

CHANGE LOG

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

09/21/2017 - Updated NavKal Version Number added A26 information
 09/01/2016 - Updated with ACM programming instructions
 07/19/2016 - Updated article for OnCommand Link and notes regarding NavKal programming
 03/08/2016 - Initial Article Release

DESCRIPTION

This document will guide the user through programming 500K calibrations N13 or N9/N10 engine.

As of the release of this article, the Nexiq USB Link 2 is the preferred cabled for programming.

NOTE - The issues reported with NavKal have been resolved. NavKal, PocketMaxx, and OnCommand Link can be used to program 500K vehicles.

OPERATIONS

NavKal

- Calibration Upgrades
- Parameter Upgrades (Horse power upgrades included)
- Blank Module Flashing

PocketMaxx

- Calibration Updates
- **Blank Flashing or Parameter Upgrades cannot be done with PocketMaxx tool**

OnCommand Link

- Calibration Updates

NOTE: NETS and Auto Upgrade do not support 500K module programming.

[Tools Resource Center](#)

Tool Description	Tool Number
Control Module Programming Station	12-801-01
NavKal Software (v45.45 or newer) / PocketMaxx (see Resource Center for latest version number)	Quick Reference Guide
500K Compatible Adapter	IK2700104
OnCommand Link	TL2900130

DIAGNOSTIC STEP(s)

NavKal

Calibration Upgrades:

1. Connect to NavKal software using green 500K adapter ([compatibility chart](#))
2. Click Update Calibration under Campaigns tab to start programming.
3. Follow steps on screen for key cycles.
4. Process request for PVC using Process Requests tab.

Parameter Upgrades:

1. Connect to NavKal software using green 500K adapter ([compatibility chart](#))
2. Once you have approval from Tech Services, click on Parameter Upgrades tab and enter case file number.
3. Follow steps on screen for key cycles.
4. Process request for PVC using Process Requests tab.

Blank Module Flashing:

If Module is brand new from Parts or off a 250K engine

1. Disconnect Module from all truck harnesses (if mounted on engine).
2. Use Programming Station ([12-801-01](#)) to connect to ECM.
3. Enter all required fields (Case File field no longer required) then click Save Request.
4. Go to Process Requests tab and process the pending request.
5. Click on Campaigns tab and click Flash Blank Module
6. Follow steps on screen for key cycles.
7. Process request for PVC using Process Requests tab.

If Module is already at 500K

NOTE: A26 Engine Control Modules communicates at 500K by default, proceed to steps below for A26 Blank

Programming

1. Connect to NavKal software using green 500K adapter ([compatibility chart](#))
2. Click blank module flashing tab.
3. Enter all required fields (Case File field no longer required) then click Save Request
4. Go to Process Requests tab and process the pending request.
5. Click on Campaigns tab and click Flash Blank Module
6. Follow steps on screen for key cycles.
7. Process request for PVC using Process Requests tab.

NOTE - For blank ACM programming, part number 4063287C1 should be ordered, as it comes from the PDC communicating at 500K. If the ECM and ACM are being replaced, the ACM can be programmed on the truck AFTER the ECM has been programmed first on the bench.

PocketMaxx

1. Connect to truck using green adapter for 500K with Key on ([compatibility chart](#))
2. Once health report is done, the engine calibration will say **Current** or **Not Current**.
 - a. If calibration is **Current**, there is no update needed.
 - b. If calibration is **Not Current**, click **Not Current** to start process.
3. Follow steps on screen for key cycles.

OnCommand Link

1. Connect device to truck with Key On Engine Off.
2. Wait 4-5 minutes until device beeps.
3. Go to <http://192.168.100.1/navistar>.
4. Configure device to connect to reliable WiFi near vehicle.
5. After scan is complete, it will tell you [Calibration Update Available](#) or [Engine Calibration Up-to-Date](#).
6. Click Update Calibration and follow steps on screen to update vehicle calibration.

OTHER RESOURCES

[Master Service Information Site](#)

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