

NAVISTAR[®]

TRUCK GROUP

Navistar[®] CV Model PTO and Remote Start/Stop Programming Guide

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1. Revision Summary Table

REVISION	DATE	SECTION	CHANGE DESCRIPTION	REASON FOR CHANGE	REVISED BY
01	5/03/2023	ALL	INITIAL DRAFT	INITIATION OF DOCUMENT	Schnellenberger

2. Forward:

This programming guide will help the user with programming the PTO, on the CV model truck.

The PTO, engine ramping, and remote start programming for all vehicle modules is accomplished from these menus. Programming individual modules is not required to set up these functions.

3. Special Tools and Software:

Tool Description	Tool Number	Comments
EZ-Tech® or Electronic Service Tool (EST) with GDS 2 Software		Ensure there is a strong WIFI signal
MDI 2 Interface	EL-52100 MDI II	

To place an order for Service Tools, use the [Tool Catalog Link](#).

4. Additional References:

Link Description	Link	Notes
CV Electrical Integration Guide	Electrical Systems Integration Guide (CV)	This site contains information about setting up a PTO. It includes complete wiring schematics, pin out information and component locations
GM Upfitters Manuals	GM Upfitter.com	Details that are specific to the GM product line, but contains important TSB's and other cross functional information that may apply to your set up strategy
Master Service Information (Subscription required)	Master Service Information Site	Navistar's internal service portal

5. Getting Started:

The PTO system is programmed, from the factory, for a basic 3 speed idle up and Stationary Preset mode, with the relay control circuit enabled and ready to close a customer provided control relay. The relay is not included and must be added by the Truck Equipment Manufacture (TEM).

For most customers, the only electrical connections that are required are a control relay and an oil solenoid. The system is ready to go. Older systems did not have the relay driver turned on so they would not engage the PTO until reprogrammed by a dealer. That has been corrected.

The three factory speeds are:

1. 900 RPM – occurs with press and release of the PTO switch
2. 1200 RPM – occurs with press and release of the Cruise SET switch [if PTO is ON]
3. 1900 RPM – occurs with press and release of the Cruise Resume Switch [if PTO is ON]

IMPORTANT: On a new unit before anything is connected, start the truck in park with the park brake set, and the Cruise Control Switch OFF. Press and release the PTO in cab Switch. You should be able to achieve the 3-speed operation described above. If not, have the dealer fix it before you proceed! When proper idle up operation is confirmed THEN connect your components.

Primary PTO Operating Modes:

Preset [Stationary]

- In-cab control standard. Remote control available.
- In cab engage with remote control available

Variable [Stationary]

- In-cab control standard. Remote control available.
- In cab engage with remote control

Mobile

- In-cab control only

OSIM (Operator Selectable In-Cab Mode) [Stationary or Mobile]

- Requires additional programming.

Refer to the Integration Guide at http://bodybuilder.navistar.com/General/Documents/PDFs/ESIG_CV.pdf for wiring and other CV PTO information.

6. Using GSD2 Software and MDI2 Interface to Change PTO Settings:

This guide will address 6 areas:

1. Connecting to truck and entering diagnostic (programming) mode
2. Restoring Factory Settings.
3. Enabling interior PTO switch control and set modes of operation.
4. Enabling Remote PTO mode control and selecting parameters
5. Transferring PTOM settings to a replacement PTOM.
6. Changing the Personalization settings to allow configuration of PTO speed and timeout options, from the Information Display Vehicle Setting Menu.

6.1 Connecting to the Truck and Accessing the Configuration/Reset Menu:

Start the program and click on Diagnostics

Computer must have a Valid Lease.
Zero means the lease has expired and must be renewed.

Home button will always bring you back to the Diagnostics screen.

Days Remaining Until Lease Expires
16

Close Application

Back Contact Us Home Vehicle Menu Enter

GDS 2 v 20.3.05100 Navistar v2019.2.0

Select the interface cable and detect the vehicle

Vehicle Selection

Device: No Device Selected Select Device Disconnect Navigate Without Device

Make
Model
Model Year

VIN:

VIN	Year
1HTKTSWK7KH686128	2019
1HTKBSWK9KH816932	2019
NOVIN19022098626	2019
NOVIN19021514200	2019
NOVIN190109121844	2019
NOVIN190109110542	2019
1HTKJPVM1JH424299	2019

Device Explorer (v1.4.2.0)

Please select a device type:

Device Name	Device...	Comment	Version (J2 ^)
MDI	Bosch	Device is supported by GM.	04.04
MDI 2	Bosch	Device is supported by GM.	04.04
Inline 6	Cummi...	Device is not supported by GM. In case...	04.04
DPA 5	Dearb...	Device is not supported by GM. In case...	04.04
DrewLinQ	Drew T...	Device is not supported by GM. In case...	04.04
TVIT	Drew T...	Device is not supported by GM. In case...	04.04
NEXIQ US...	NEXIQ...	Device is not supported by GM. In case...	04.04
NEXIQ US...	NEXIQ...	Device is not supported by GM. In case...	04.04
NEXIQ US...	NEXIQ...	Device is not supported by GM. In case...	04.04

Continue Cancel

Selection Copy VIN

Timestamp

Feb 27, 2019 1:35:22 PM
Feb 25, 2019 11:12:53 AM
Feb 20, 2019 9:43:20 AM
Feb 15, 2019 2:22:55 PM
Jan 9, 2019 12:32:19 PM
Jan 9, 2019 11:15:14 AM
Oct 25, 2018 1:11:36 PM

Back Contact Us Home Vehicle Menu

GDS 2 v 21.0.01501 Navistar v2019.4.0

Navistar International Corporation - Unattended Ac...
This computer was accessed by Kendall on 4/6/2019. Show details

Vehicle Selection

Device: MDI 2: 88754868 Navigate Without Device

Press Enter To Continue.

Make
Model
Model Year

VIN:

Once Device has been confirmed, depress the enter button
Use this button on all screens.

VIN	Model Year	International	CV515	
NOVIN200129113919	2019	International		
1HTKSPVKXKH367307	2019	International		
1HTKHPVKXKH862962	2019	International	CV515	Sep 20, 2019 10:17:51 AM
1HTKTSWM2KH245198	2019	International	CV515	Sep 4, 2019 10:31:21 AM
1HTKTSWK8KH130393	2019	International	CV515	Jul 17, 2019 2:03:51 PM
1HTKTSWM4KH267025	2019	International	CV515	Jul 16, 2019 1:53:52 PM

GDS 2 v.21.2.08800 Navistar v2020.1.0 MDI 2: 88754868 12.7 V

Please make a selection

2020
2019

Select year

Selected Vehicle

Property	Value	Value Source
Selected Vehicle ...		
Property	Value	Value Source

Navigation Path

GDS 2 v.21.2.08800 Navistar v2020.1.0 VIN: NOVIN200130101732 MDI 2: 88754868 12.7 V

Please make a selection

CV515

Select model

Selected Vehicle

Property	Value	Unit
Model...	2020	Un
Make	Intern...	Un

Navigation Path

GDS 2 v.21.2.08800 Navistar v2020.1.0 VIN: NOVIN200130131848 2020 International MDI 2: 88754868 12.7 V

Please make a selection

International

Select make

Selected Vehicle

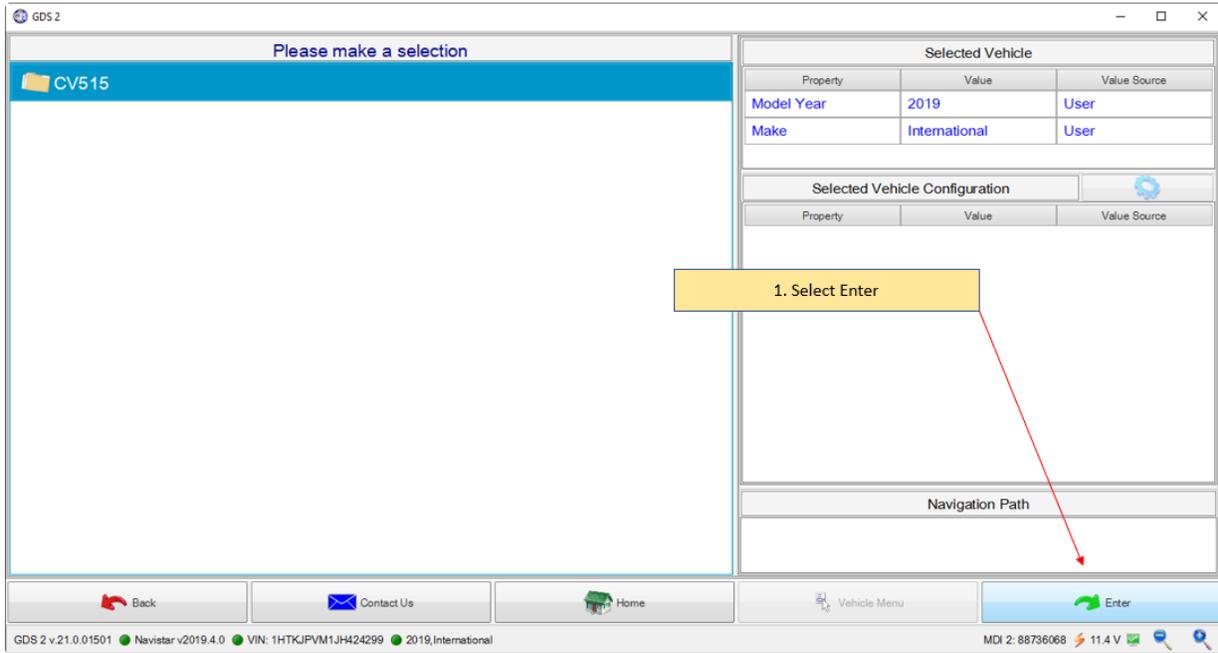
Property	Value	Unit
Model...	2020	Un

Navigation Path

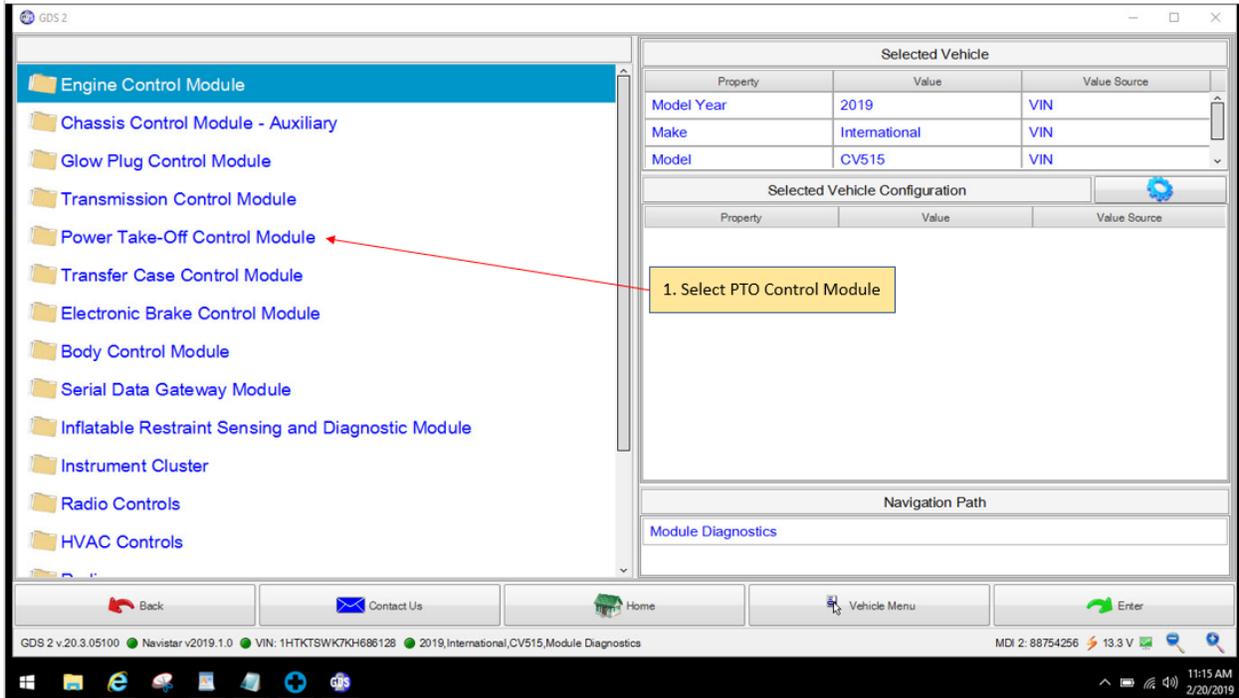
GDS 2 v.21.2.08800 Navistar v2020.1.0 VIN: NOVIN200130131848 2020 MDI 2: 88754868 12.7 V

Use the ENTER button to advance screens

Select Vehicle and click on Enter

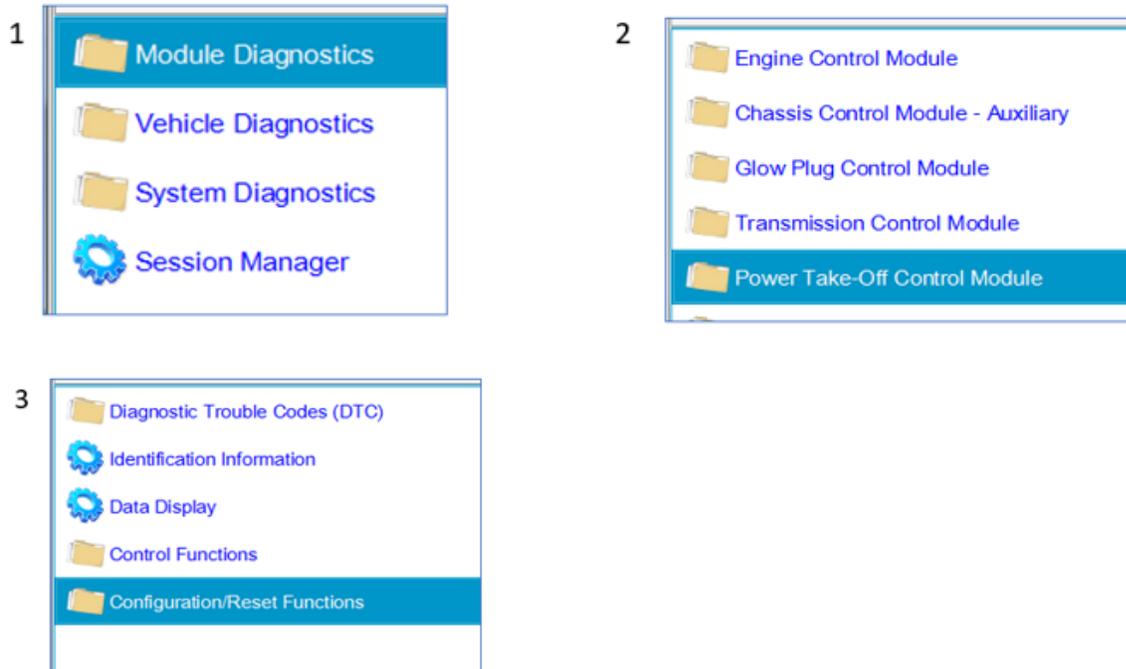


Select Power Take Off Control Module



GDS 2 Menu for PTO Settings

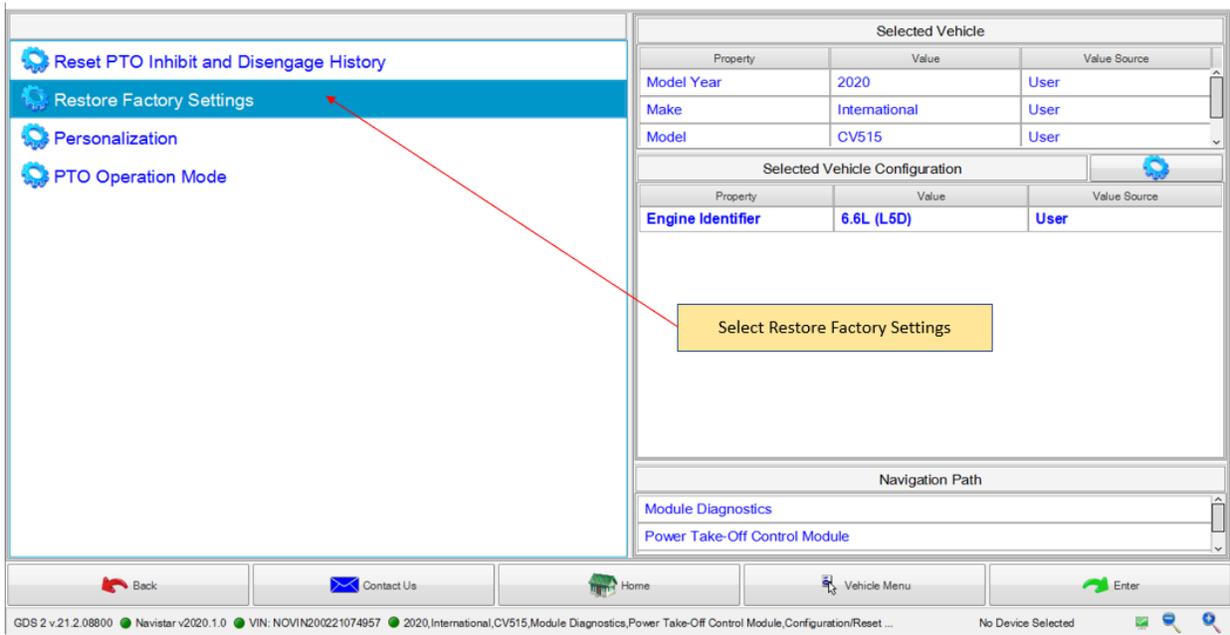
Step through the screens below to get to PTO Operation Mode



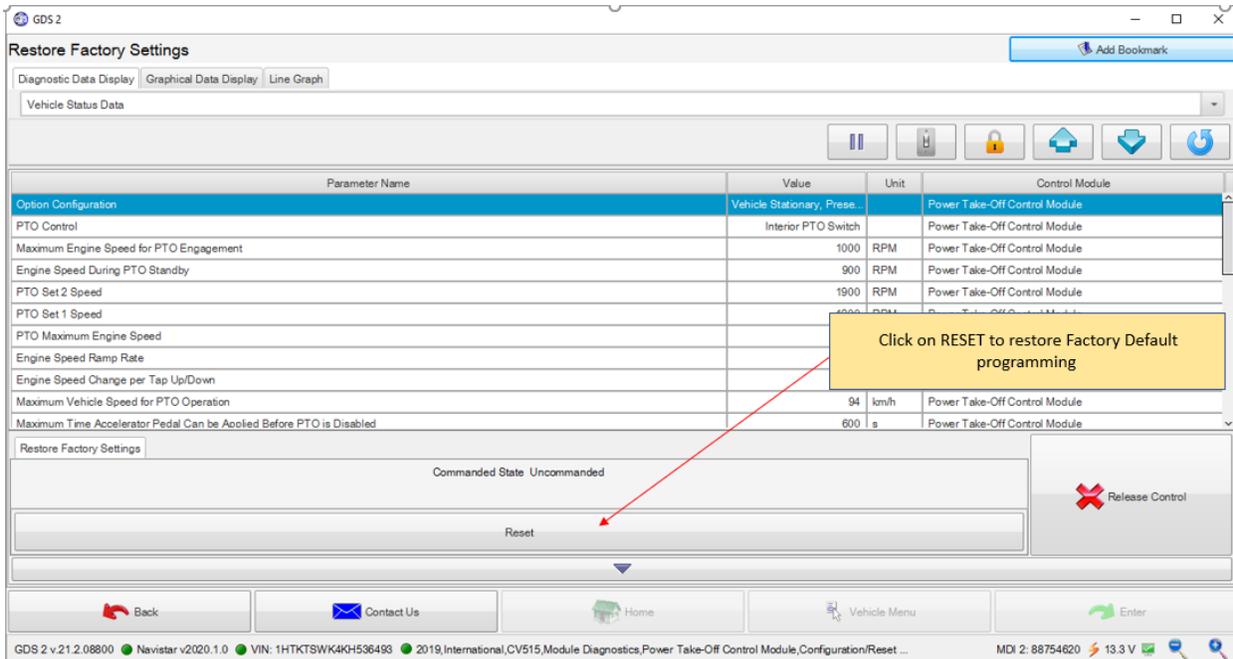
6.2 Select Configuration Reset Functions:

Programming this option will restore the PTO settings to the factory defaults.

[PTO – Restore Factory Settings Video](#) This video leaves out the Key Cycle: in Section 6.3.3. Do not forget it.



The screen below is displayed, after selecting Restore Factory Settings. It provides a list of the current parameter settings. Clicking on Reset will restore the factory defaults and display the results.



6.3 Programming Routine:

6.3.1 Programming Prerequisites:

- Ensure the truck battery has a full charge.
- Ensure the service tool battery has sufficient charge.
- Ensure the truck key is on.
- Ensure the truck has plenty of fuel.
- Ensure the truck does not require a regen.
- Ensure the truck is not low on oil.
- Ensure the truck hood and all doors are closed.

Note: It is also beneficial to ensure that the Body Controller and Engine Control Module have the latest software. This must be programmed using the SPS software.

6.3.2 Programming Steps:

Example of Programming Steps:

The screenshot shows the 'Personalization' screen in a vehicle's diagnostic tool. It features a table of parameters and a configuration area below. Five callout boxes provide step-by-step instructions:

1. Select the parameter to be enabled
2. Make desired selection from the drop-down menu Example: "Enable".
3. Select "Save Changes", after selecting each parameter. If Save Changes is greyed out. Select one of the other options then select the desired option again, until Save Change is enabled.
4. Select "Write Option" to write (program) the changes to the PTO Module. Software does not provide any notification that the programming was successful.
5. Click on Continue, when finished programming, to move to the next screen. See the information below for the required key sequence.

Parameter Name	Control Module	Vehicle Settings	Setting Changes
Personalization Status	Power Take-Off Control Module		Enabled
Set 1 Speed Adjustment	Power Take-Off Control Module		Enabled
Set 2 Speed Adjustment	Power Take-Off Control Module		Enabled
Standby Speed Adjustment	Power Take-Off Control Module		Disabled
Automatic Engine Stop Time Adjustment	Power Take-Off Control Module		
Engine Speed Change via Torque Up/Down Adjustment	Power Take-Off Control Module		

Buttons: Refresh Parameters, Write Options, Continue, Clear Changes, Save Changes, Back, Enter.

6.3.3 Key Cycle:

Any time “Write Options” has been selected and you are done making changes, the following steps must be followed to lock in the changes.

Programming Key Sequence

Any time programming changes have been made, the system must be allowed to learn the new configuration.

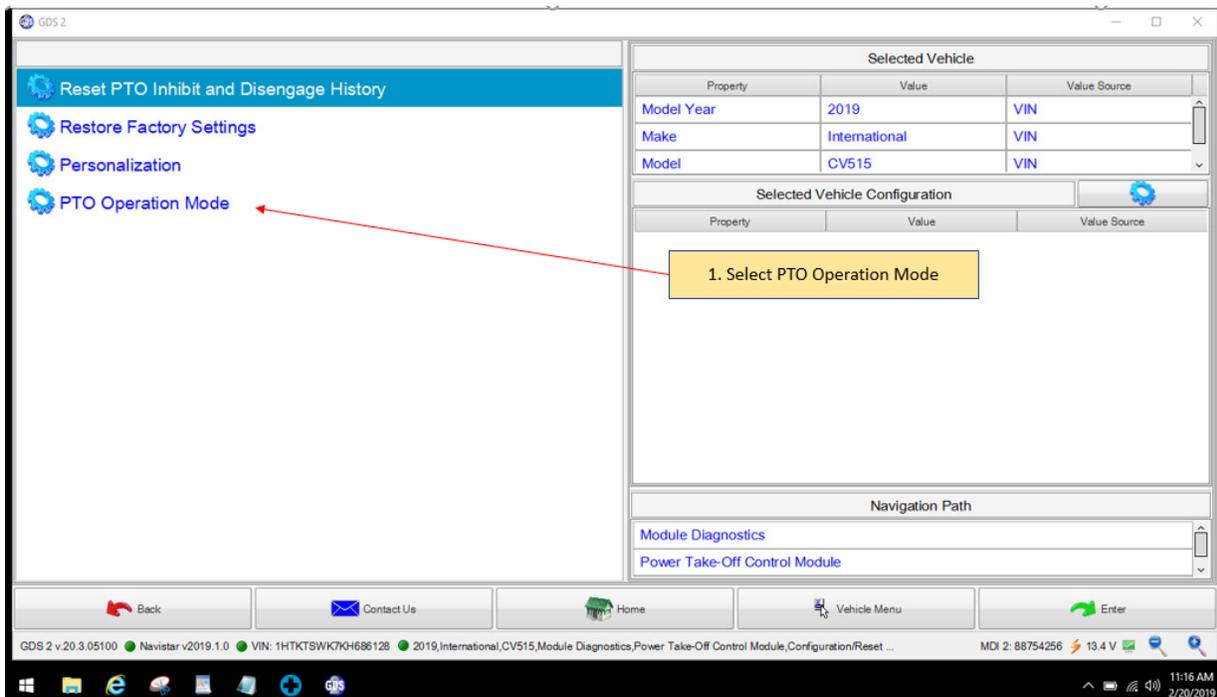
- Turn off the key, release the park brake, then open and close the door.
- After the Dome Light goes out, set the park brake, and turn the key on.

Note: Technicians have reported that they must allow additional time, after the dome light goes out, before turning the key back on. Some make it a habit to allow up to 10 minutes to ensure that the changes stick.

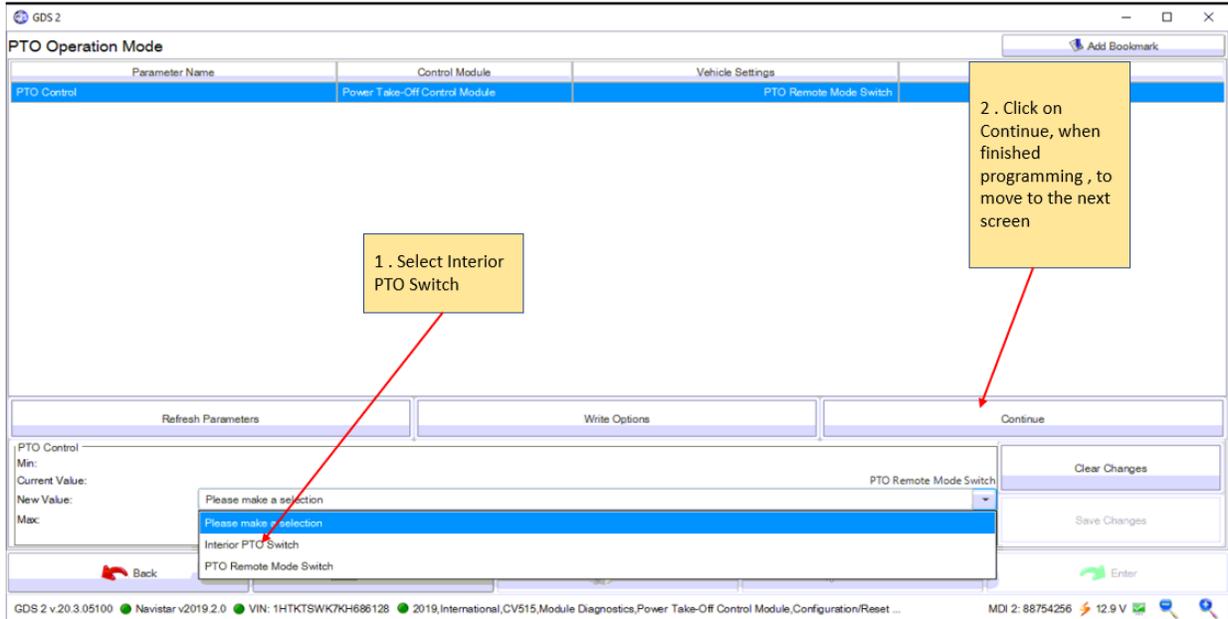
- Verify that the vehicle operates as desired.

6.4 Enable Interior PTO Switch Control and Set Modes of Operation:

Select PTO Operation Mode. This starts the selection for programming Interior PTO Switch and remote PTO control.

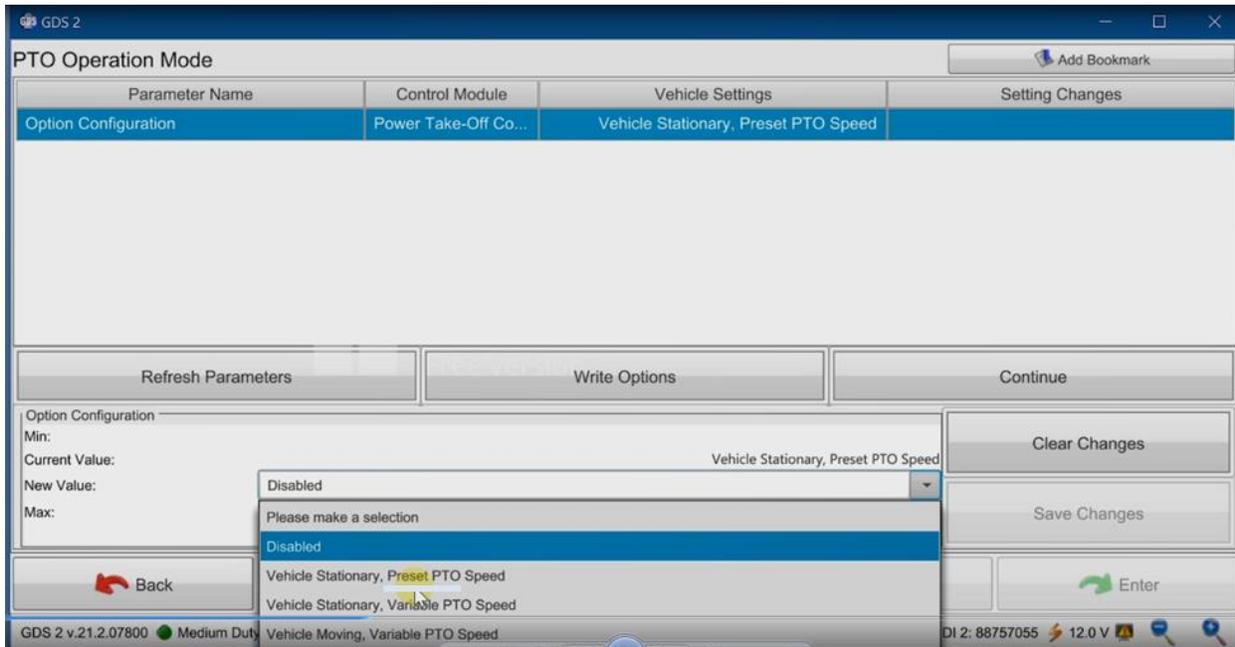


First Select Interior PTO Switch operation.



When the PTO mode is set to Interior PTO Switch, the screen below is shown, after hitting Continue. Use the screen below to select the desired mode of operation [PTO – Stationary Preset Speed Mode Video](#) [PTO – Stationary – Variable Speed Mode Video](#) [PTO – Variable Speed – Mobile Mode Video](#).

These videos leave out the Key Cycle: in Section 6.3.3. Do not forget it.

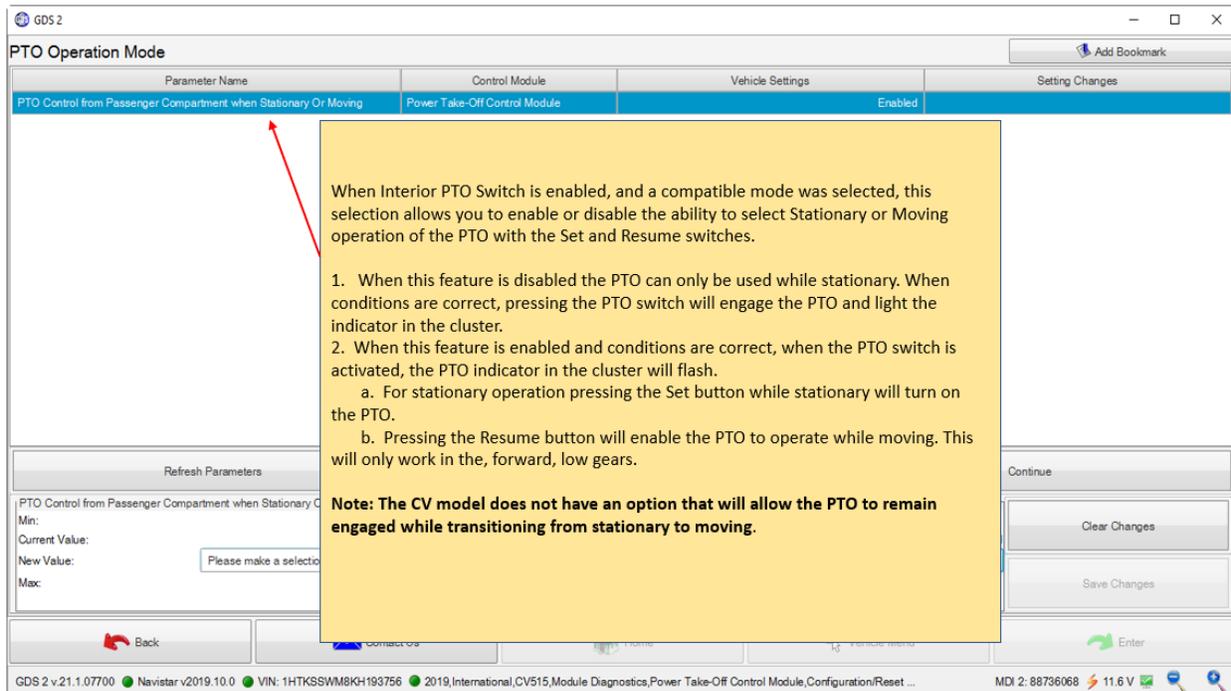


After making the desired selection, click on Write Options and Continue.

Any time programming changes have been made, the system must be allowed to learn the new configuration. Refer to Key Cycle: in Section 6.3.3 of this manual.

6.4.1 OSIM – Activate Stationary Operation or Activate Moving Operation of the PTO with the Set and Resume Switches :

After the PTO mode has been set, and a compatible mode was selected, the screen below is shown after hitting Continue.



The screen above is used to configure the OSIM Stationary / Moving option.

[PTO – Stationary Preset – OSIM enabled](#) This video leaves out the Key Cycle: in Section 6.3.3. Do not forget it.

When the interior PTO Switch is enabled, this selection allows you to enable or disable the ability to activate stationary operation or activate moving operation of the PTO with the Set and Resume switches.

1. When this feature is disabled the PTO can only be used while stationary. When conditions are correct, pressing the PTO switch will engage the PTO and light the indicator in the cluster.
2. When this feature is enabled and conditions are correct and the PTO switch is activated, the PTO indicator in the cluster will flash.

- a. For stationary operation pressing the Set button while stationary will turn on the PTO.
- b. Pressing the Resume button will enable the PTO to operate while moving. This will only work in the, forward, low gears.

Note: The CV model does not have an option that will allow the PTO to remain engaged while transitioning from stationary to moving.

After processing the OSIM Stationary / Moving screen, this summary, shown below will be displayed after hitting Continue. This is Part 1 of 2

Parameter Name	Control Module	Vehicle Settings	Setting Changes
Maximum Engine Speed for PTO Engagement	Power Take-Off Control Module	1500	
Minimum Engine Speed for PTO Engagement	Power Take-Off Control Module	500	
Engine Speed During PTO Standby	Power Take-Off Control Module	900	
PTO Set 1 Speed	Power Take-Off Control Module	1200	
PTO Set 2 Speed	Power Take-Off Control Module	1900	
PTO Maximum Engine Speed	Power Take-Off Control Module	2100	
Engine Speed Ramp Rate	Power Take-Off Control Module	148	
Accelerator Pedal Disabled	Power Take-Off Control Module	Yes	
Maximum Time Accelerator Pedal Can be Applied Before PTO is Disabled	Power Take-Off Control Module	600	
Low Fuel Level Warning Threshold Before Engine Stop	Power Take-Off Control Module	15	
Time Before Engine Stop	Power Take-Off Control Module	420	
Time Before Engine Stop	Power Take-Off Control Module	Enabled	
PTO Relay	Power Take-Off Control Module	Enabled	
PTO Load Feedback	Power Take-Off Control Module	Disabled	
PTO Relay On in Standby	Power Take-Off Control Module	Enabled	

PTO Set 1 Speed

Min: 1100 RPM

Current Value: 1200 RPM

New Value:

Max: 2900 RPM

Clear Changes

Save Changes

Back
Contact Us
Home
Vehicle Menu
Enter

GDS 2 v.21.1.07700 ● Navistar v2019.10.0 ● VIN: 1HTKSSWM8KH193756 ● 2019,International,CV515,Module Diagnostics,Power Take-Off Control Module,Configuration/Reset ... MDI 2: 88736068 11.6 V

Interior PTO Switch, continued. Part 2 of 2 Bottom part of screen.

The screenshot shows the GDS 2 software interface for configuring the PTO Operation Mode. The main window is titled "PTO Operation Mode" and contains a table of parameters. Below the table are buttons for "Refresh Parameters", "Write Options", and "Continue". A configuration panel for "PTO Set 1 Speed" is visible, showing a current value of 1200 RPM and a range from 1100 to 2900 RPM. The bottom navigation bar includes buttons for "Back", "Contact Us", "Home", "Vehicle Menu", and "Enter".

Parameter Name	Control Module	Vehicle Settings	Setting Changes
PTO Set 1 Speed	Power Take-Off Control Module	1200	
PTO Set 2 Speed	Power Take-Off Control Module	1900	
PTO Maximum Engine Speed	Power Take-Off Control Module	2100	
Engine Speed Ramp Rate	Power Take-Off Control Module	148	
Accelerator Pedal Disabled	Power Take-Off Control Module	Yes	
Maximum Time Accelerator Pedal Can be Applied Before PTO is Disabled	Power Take-Off Control Module	600	
Low Fuel Level Warning Threshold Before Engine Stop	Power Take-Off Control Module	15	
Time Before Engine Stop	Power Take-Off Control Module	420	
Time Before Engine Stop	Power Take-Off Control Module	Enabled	
PTO Relay	Power Take-Off Control Module	Enabled	
PTO Load Feedback	Power Take-Off Control Module	Disabled	
PTO Relay On in Standby	Power Take-Off Control Module	Enabled	
Default Engine Speed After PTO On	Power Take-Off Control Module	Standby Speed	
Maximum Vehicle Speed for PTO Operation	Power Take-Off Control Module	94	
PTO Enabled When Driver Door is Open	Power Take-Off Control Module	No	

PTO Set 1 Speed configuration panel:

- Min: 1100 RPM
- Current Value: 1200 RPM
- New Value: 1200
- Max: 2900 RPM

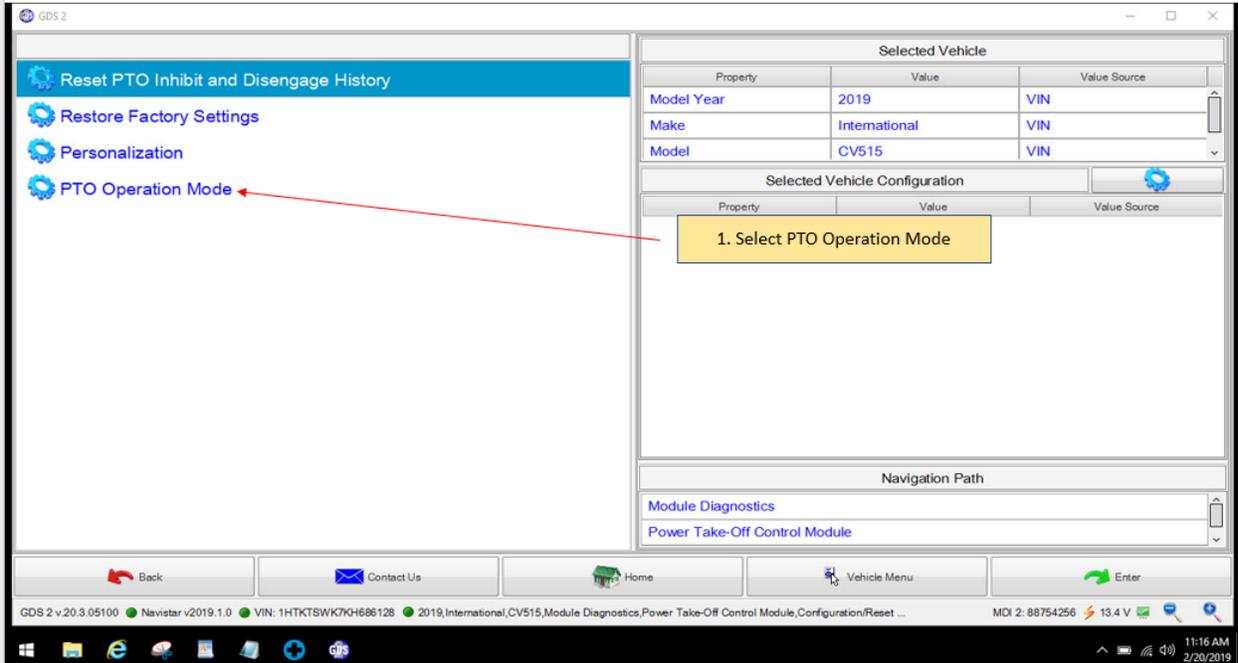
Buttons: Refresh Parameters, Write Options, Continue, Clear Changes, Save Changes, Back, Contact Us, Home, Vehicle Menu, Enter.

System Information: GDS 2 v.21.1.07700, Navistar v2019.10.0, VIN: 1HTKSSWM8KH193756, 2019, International, CV515, Module Diagnostics, Power Take-Off Control Module, Configuration/Reset ... MDI 2: 88736068, 11.8 V

Any time programming changes have been made, the system must be allowed to learn the new configuration. Refer to the Key Cycle: in section 6.3.3 of this manual.

6.5 Enable PTO Remote Mode Switch Control and Set Modes of Operation:

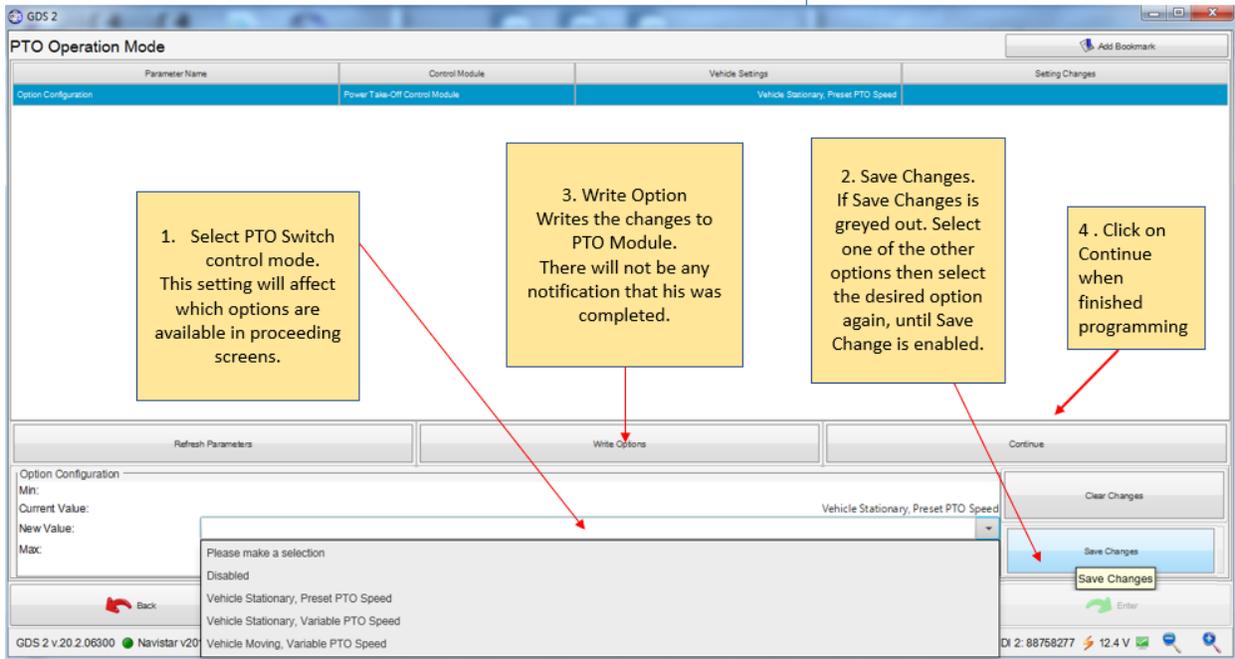
This starts the selection for programming remote PTO control. Select PTO Operation Mode [PTO – Stationary Preset – Remote Operation Video](#) This video leaves out the Key Cycle: in Section 6.3.3. Do not forget it.



First screen that pops up after selecting PTO Operation Mode.

PTO Operation Modes :

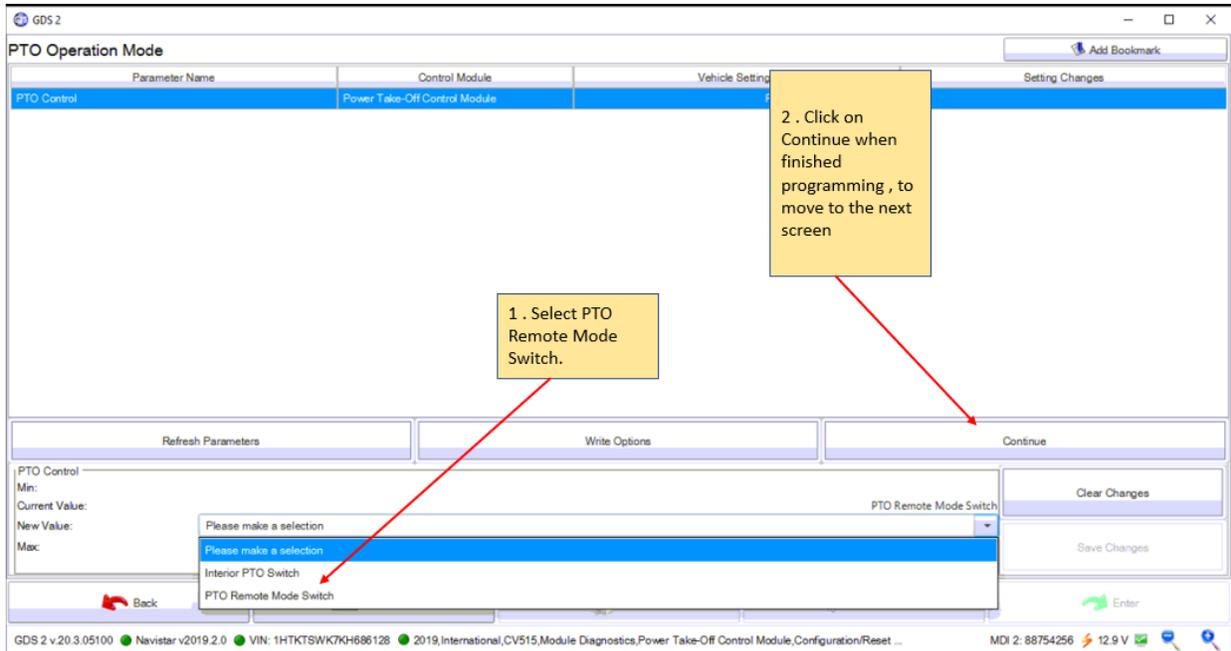
- Disable
- Vehicle Stationary, Preset PTO Speed
- Vehicle Stationary, Variable PTO Speed
- Vehicle Moving, Variable PTO Speed – This setting will disable stationary PTO



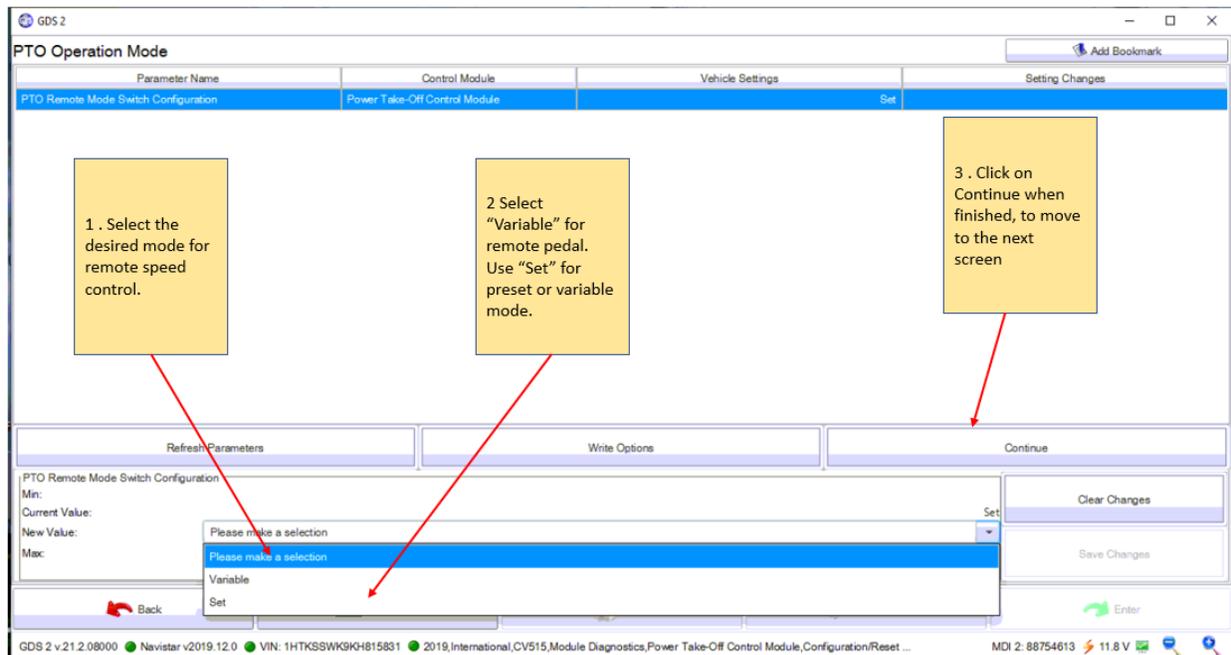
Select PTO Remote Mode Switch control

Note: An additional Interior PTO Switch control can be added later in the programming.

Note: Setting this to PTO Remote Mode Switch will also enable the remote start/stop function.



The menu below will only be available if the PTO Operation Mode is set to the remote option. Other menu options may be disabled.



The parameters below are displayed for **Remote PTO – Part 1**

Some options may not be available depending on what was selected in previous screens. Set these as desired.

PTO Operation Mode

Parameter Name	Control Module	Vehicle Settings	Setting Changes
Minimum Engine Speed for PTO Engagement	Power Take-Off Control Module	500	
Maximum Engine Speed for PTO Engagement	Power Take-Off Control Module	1500	
Engine Speed During PTO Standby	Power Take-Off Control Module	900	
PTO Set 1 Speed	Power Take-Off Control Module	1200	
PTO Set 2 Speed	Power Take-Off Control Module	1900	
PTO Maximum Engine Speed	Power Take-Off Control Module	2100	
Engine Speed Ramp Rate	Power Take-Off Control Module	148	
Accelerator Pedal Disabled	Power Take-Off Control Module	Yes	
Maximum Time Accelerator Pedal Can be Applied Before PTO...	Power Take-Off Control Module	600	
Low Fuel Level Warning Threshold Before Engine Stop	Power Take-Off Control Module	15	
Time Before Engine Stop	Power Take-Off Control Module	Enabled	
Time Before Engine Stop	Power Take-Off Control Module	420	
PTO Relay	Power Take-Off Control Module	Enabled	
PTO Load Feedback	Power Take-Off Control Module	Disabled	
PTO Relay On in Standby	Power Take-Off Control Module	Enabled	

Buttons: Refresh Parameters, Write Options, Continue

Configuration Panel: Minimum Engine Speed for PTO Engagement

- Min: 500 RPM
- Current Value: 500 RPM
- New Value: 500
- Max: 1000 RPM

Buttons: Clear Changes, Save Changes

Navigation Bar: Back, Contact Us, Home, Vehicle Menu, Enter

System Information: GDS 2 v.20.3.05100, Navistar v2019.1.0, VIN: 1HTKTSWK7G1686128, 2019, International, CV515, Module Diagnostics Power Take-Off Control Module, Configuration/Reset ... MDI 2: 88754256, 13.3 V

System Tray: 11:17 AM, 2/20/2019

The parameters below are displayed for **Remote PTO** – Part 2. The last parameter can be set to enable the in-cab PTO switch. Follow the programming steps after making your last change.

PTO Operation Mode

Parameter Name	Control Module	Vehicle Settings	Setting Changes
PTO Maximum Engine Speed	Power Take-Off Control Module	2100	
Engine Speed Ramp Rate	Power Take-Off Control Module	148	
Accelerator Pedal Disabled	Power Take-Off Control Module	Yes	
Maximum Time Accelerator Pedal Can be Applied Before PTO...	Power Take-Off Control Module	600	
Low Fuel Level Warning Threshold Before Engine Stop	Power Take-Off Control Module	15	
Time Before Engine Stop	Power Take-Off Control Module	Enabled	
Time Before Engine Stop	Power Take-Off Control Module	420	
PTO Relay	Power Take-Off Control Module	Enabled	
PTO Load Feedback	Power Take-Off Control Module	Disabled	
PTO Relay On in Standby	Power Take-Off Control Module	Enabled	
Default Engine Speed After PTO On	Power Take-Off Control Module	Standby Speed	
Default Engine Speed After Brake Event	Power Take-Off Control Module	Idle Speed	
Horn Chirps During a Remote Engine Start Event	Power Take-Off Control Module	Enabled	
PTO Remote Mode Switch Type	Power Take-Off Control Module	Momentary	
PTO Remote Control from Passenger Compartment	Power Take-Off Control Module	Disabled	

Refresh Parameters | Write Options

Minimum Engine Speed for PTO Engagement
 Min: 500
 Current Value: 500
 New Value:
 Max: 1000

Back | Contact Us | Home | Vehicle Menu

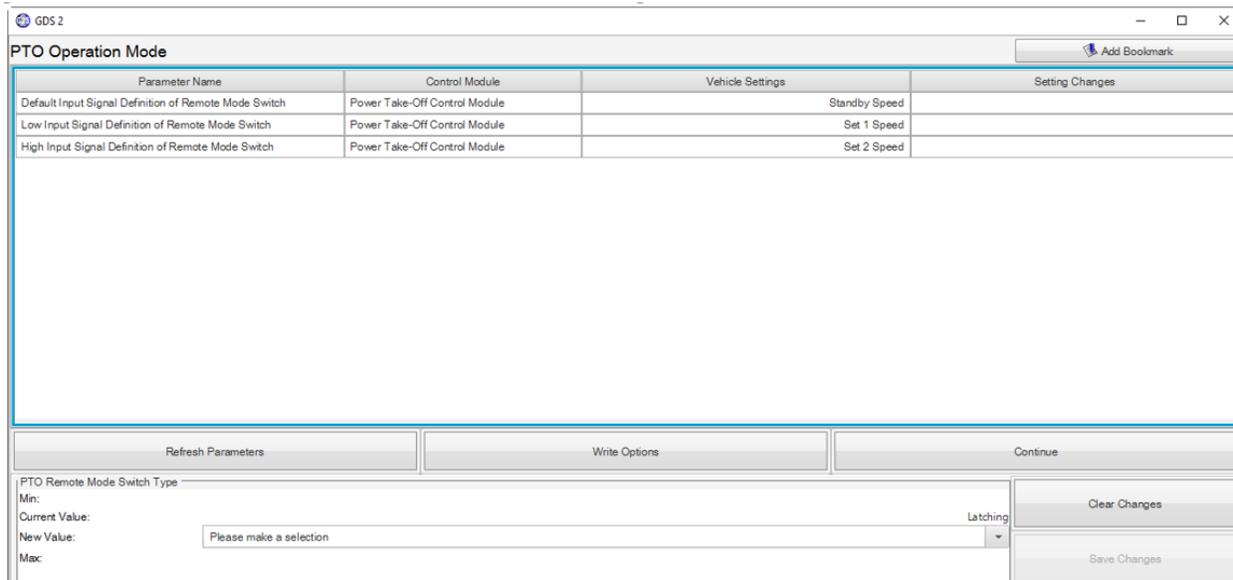
GDS 2 v.20.3.05100 | Navistar v2019.1.0 | VIN: 1HTKTSWK7KH686128 | 2019,International,CV515,Module Diagnostics,Power Take-Off Control Module,Configuration/Reset ... | MDI 2: 88754256 | 13.3 V | 11:17 AM 2/20/2019

Callout 1: Set Remote switch Mode. Setting to Momentary will prevent the next page of parameters from being displayed.

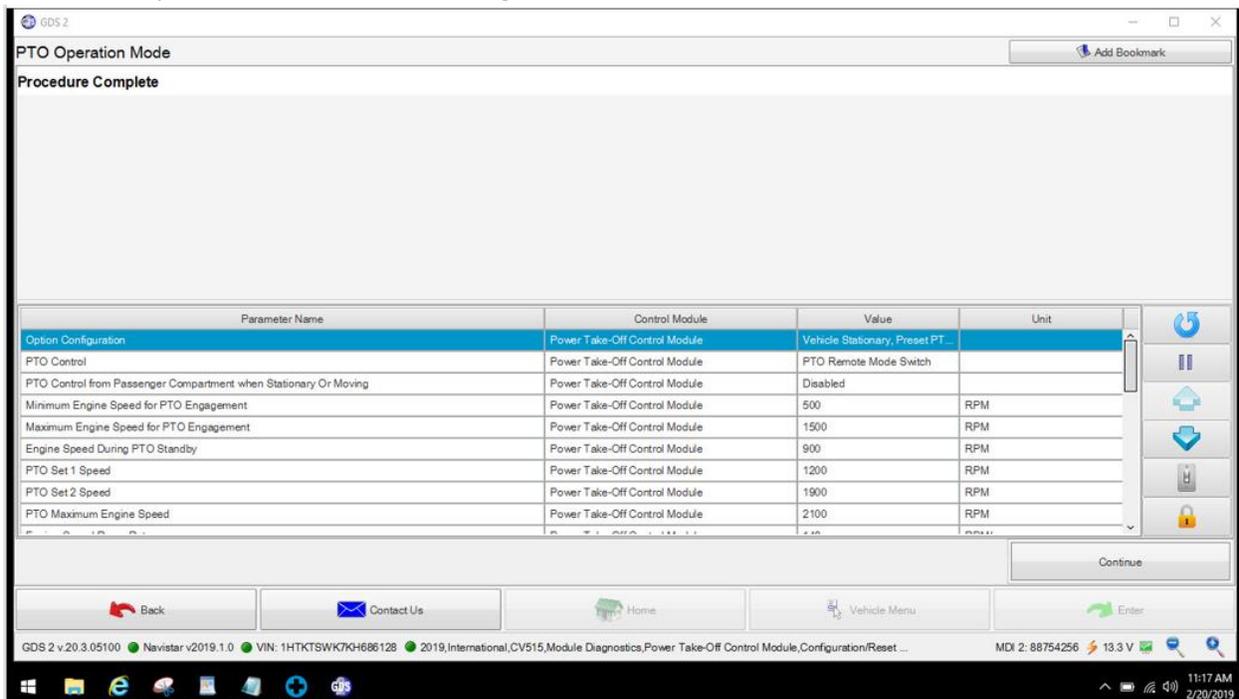
Callout 2: Set to "enable Interior PTO Switch" to allow cab PTO engagement and remote engine speed control. When this is selected, the engine must be running, the truck must have transitioned from in gear to park and the park brake must have changed from released to set.

The additional parameter page below is displayed, when “Latched” is selected under PTO Remote Mode Switch Type.

Note: Be aware that the Latched switch configuration is hard to make stick. The software likes to revert to Momentary and it happens with no warning. Any time you re-read the module it automatically switches and is programmed.



This summary below is shown, after hitting continue.



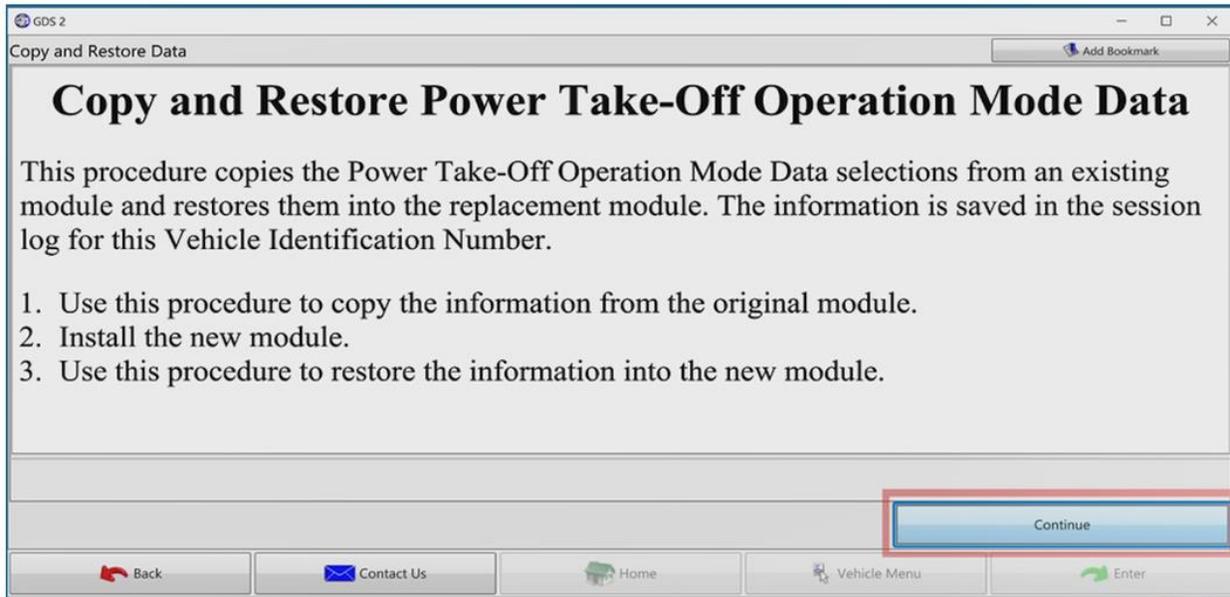
Returns to main screen when you hit Continue.

Any time programming changes have been made, the system must be allowed to learn the new configuration. Refer to Key Cycle: in section 6.3.3 of this manual.

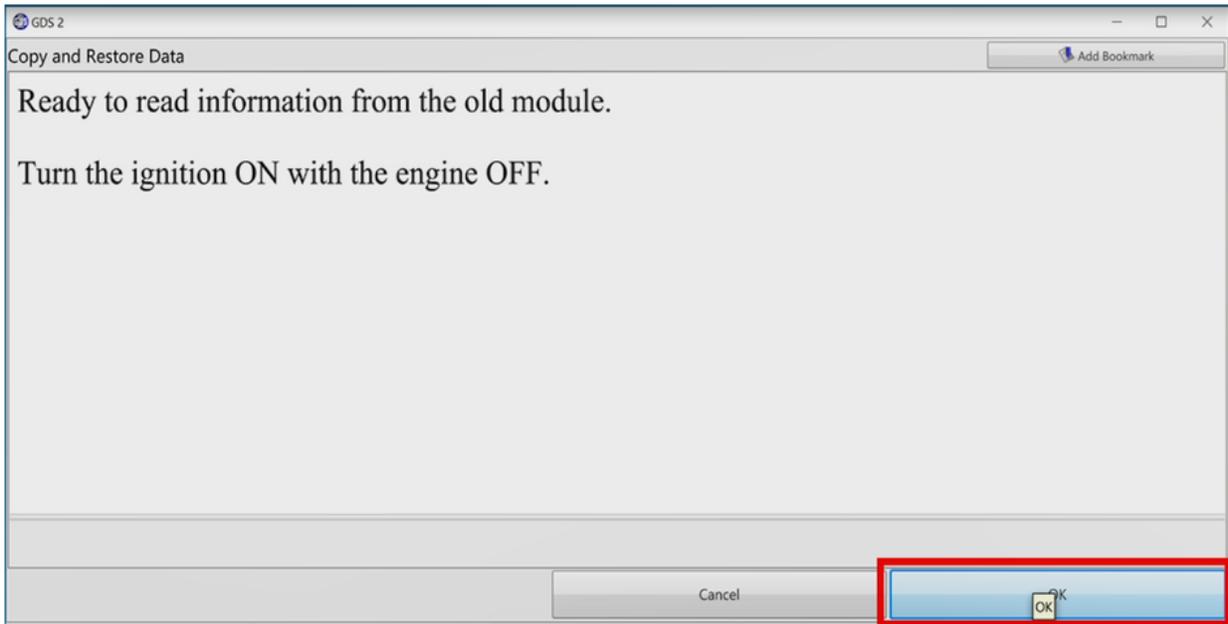
6.5 Transferring PTOM Settings to a Replacement PTOM:

The Copy and Restore menu allows you to save the savings, from a PTOM that is going to be replaced, so the settings can be programmed into the replacement PTOM. [PTO - Copy and Restore Module Configuration Settings Video](#) This video leaves out the Key Cycle: in Section 6.3.3. Do not forget it.

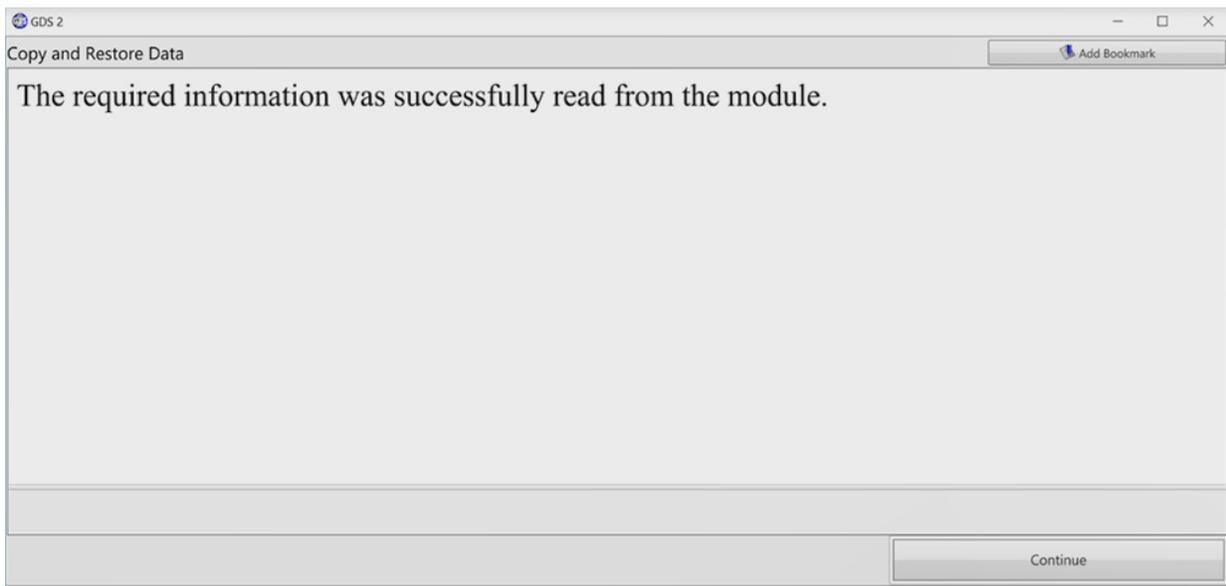
This is the first screen displayed, after clicking on Copy and Restore. Click on Continue to proceed.



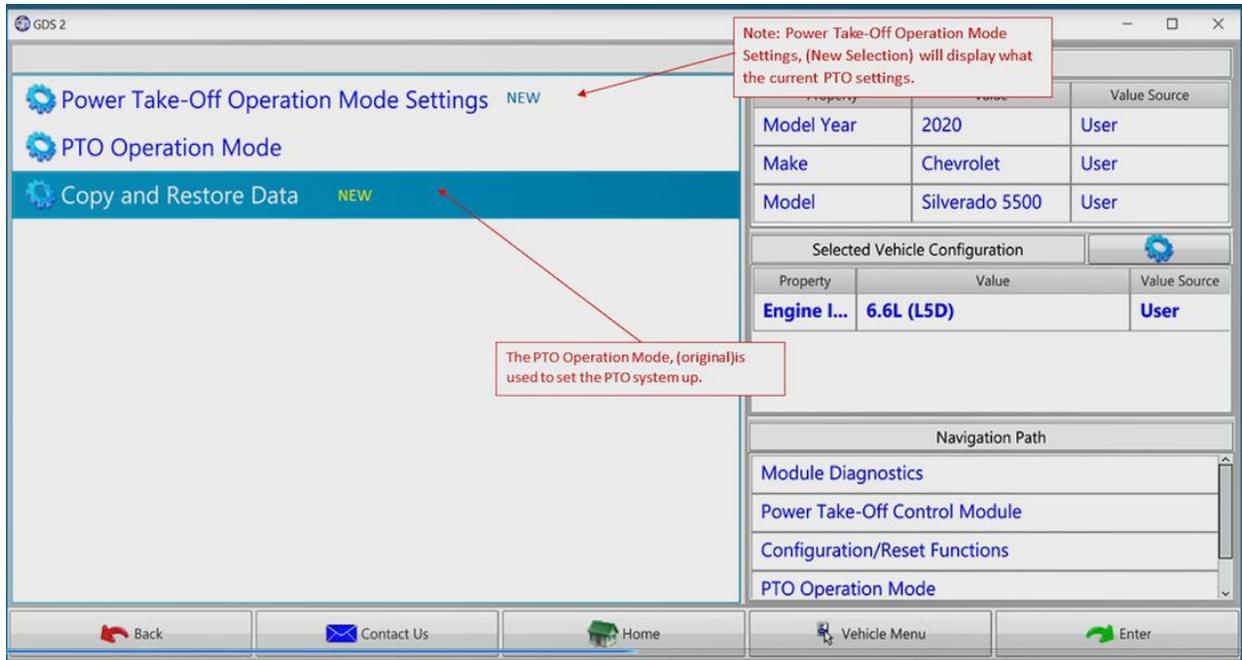
The screen below is displayed next. Ensure the ignition is ON, click on OK to continue. A progress bar will be displayed.



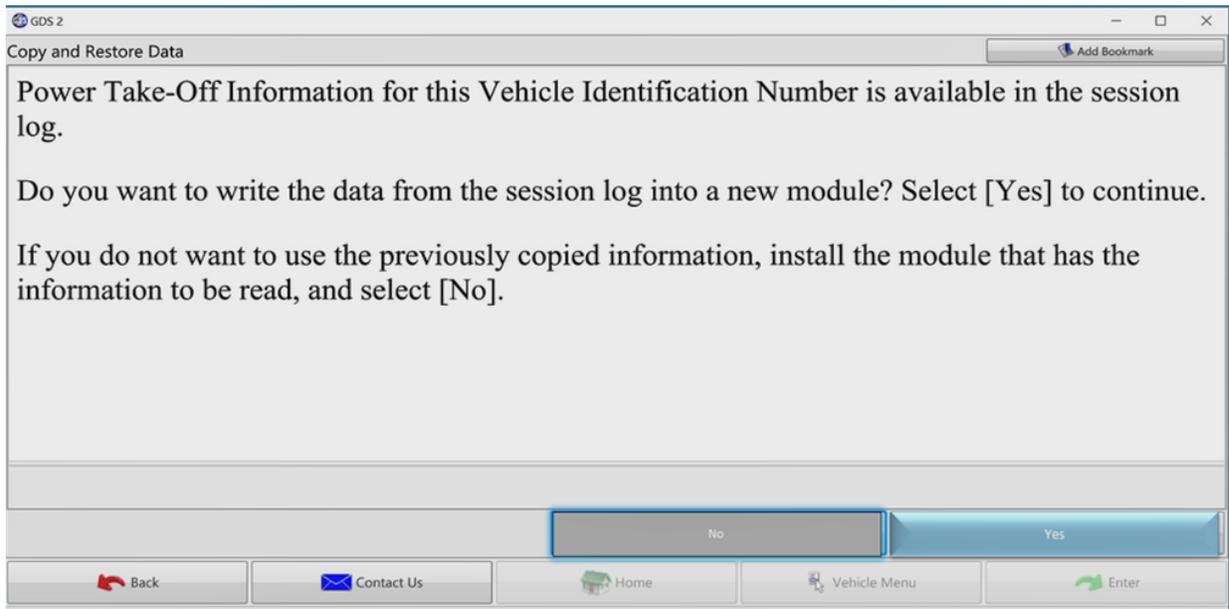
After the progress bar finishes, this page will be displayed. This concludes the copy portion of this process. Click on Continue to exit.



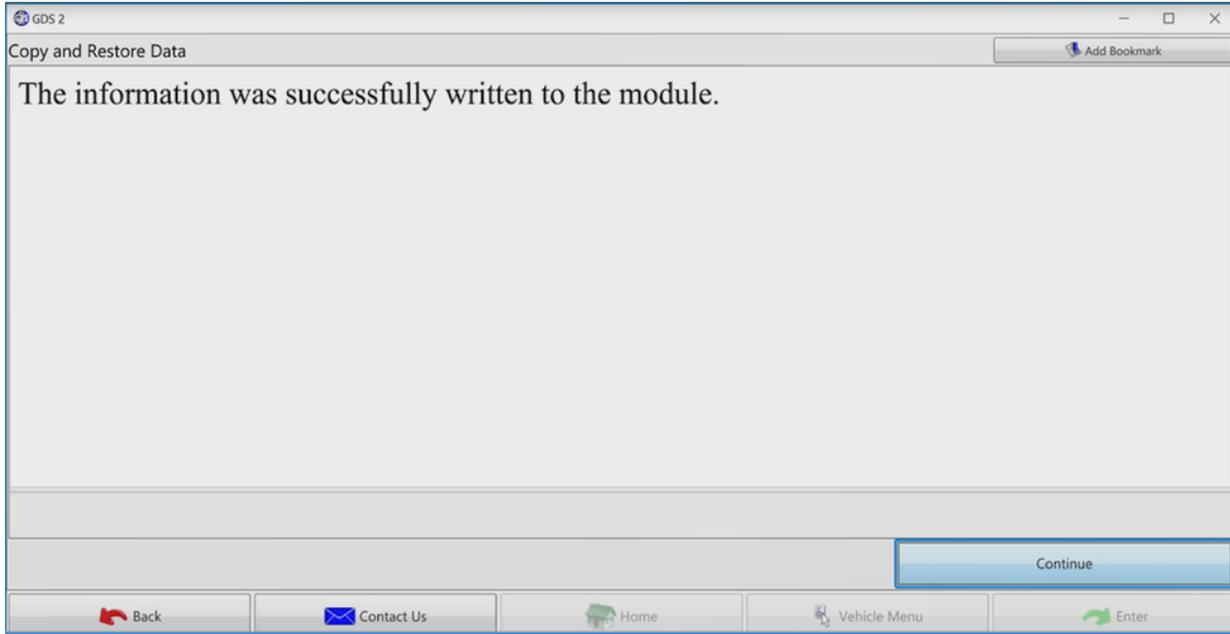
Return to the Copy and Restore screen to start the Restore portion of the process. Click on Copy and Restore. Follow all the menu items just as you did for the Copy portion.



When there is copied data stored for this VIN, the menu below will pop. Selecting “Yes” will write the data to the module. Follow the menus that show up next.



When the restore is complete, the screen below will be displayed. Select Continue to exit the procedure.



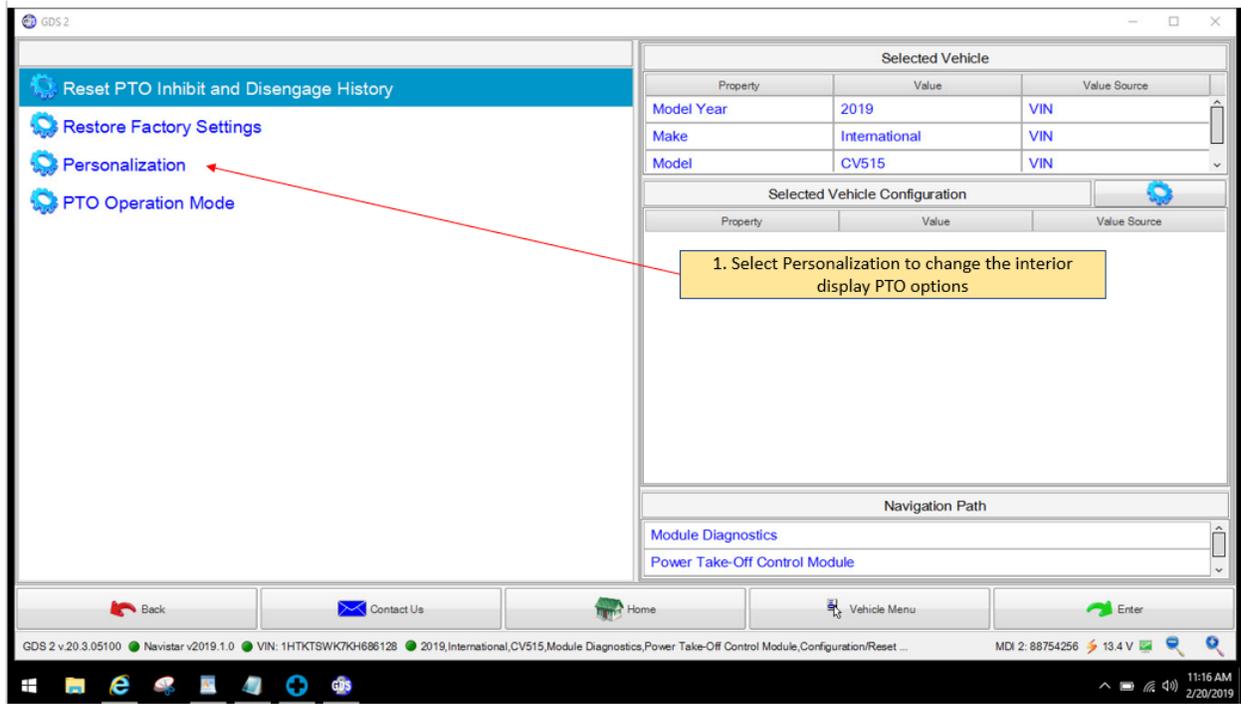
Any time programming changes have been made, the system must be allowed to learn the new configuration. Refer to Key Cycle: in section of this manual.

6.6 Change the Personalization settings to control PTO options in the Information Display Vehicle Setting Menu:

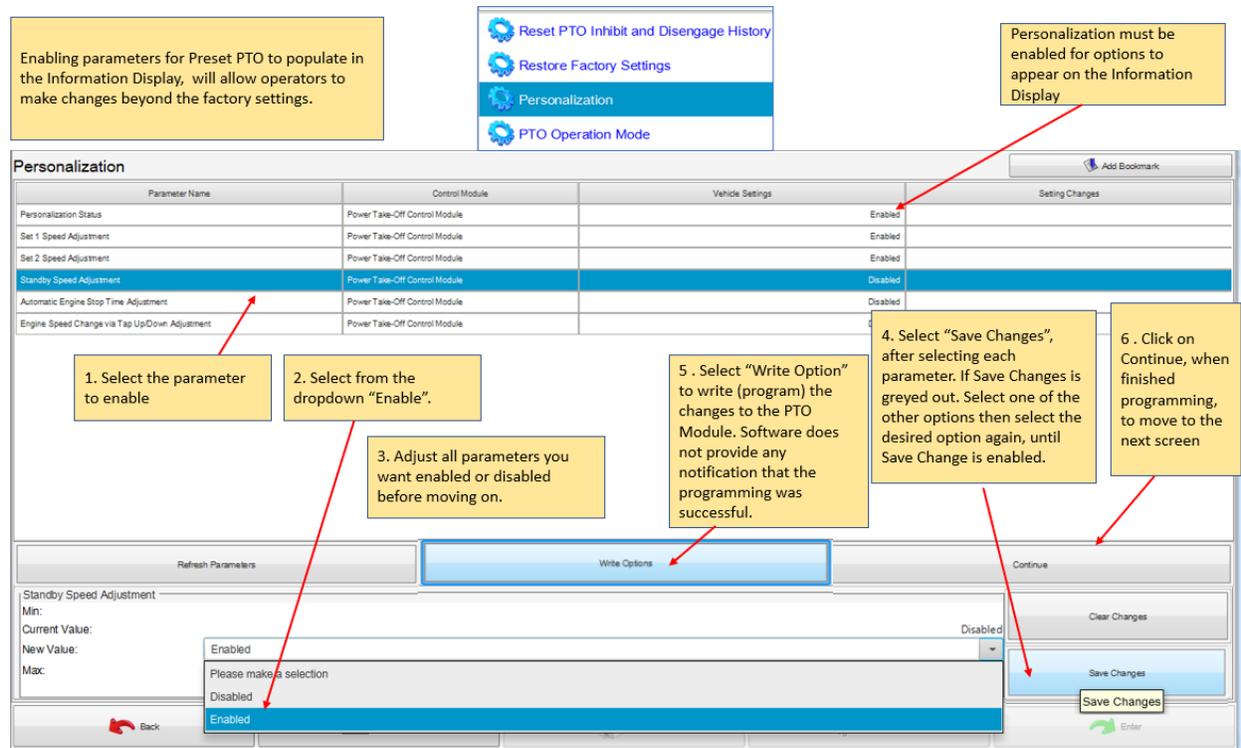
The Change the Personalization settings menu allows you to configure the option to have PTO options in the Information Display.

[PTO – Vehicle Personalization Enable Video](#) This video leaves out the Key Cycle: in Section 6.3.3. Do not forget it.

The screen displayed, below, shows the option to configure Personalization.



The screens below shows the steps to enable Personalization.



1. Personalization must be enabled for PTO settings to populate in the Information Display Vehicle Setting Menu

- Reset PTO Inhibit and Disengage History
- Restore Factory Settings
- Personalization
- PTO Operation Mode

Personalization

Parameter Name	Control Module	Vehicle Settings	Setting Changes
Personalization Status	Power Take-Off Control Module		Enabled
Set 1 Speed Adjustment	Power Take-Off Control Module		Enabled
Set 2 Speed Adjustment	Power Take-Off Control Module		Disabled
Standby Speed Adjustment	Power Take-Off Control Module		Disabled
Automatic Engine Stop Time Adjustment	Power Take-Off Control Module		Disabled
Engine Speed Change via Tap Up/Down Adjustment	Power Take-Off Control Module		Disabled

Factory Default PTO Engine Speeds

Speed	rpm
Standby	900 rpm
Set 1 (SET-)	1200 rpm
Set 2 (+RES)	1900 rpm

Power Take-Off (PTO) Settings

- Standby Speed
- Set 1 Speed
- Set 2 Speed
- Shutdown Time

Write Options Continue

Clear Changes
Save Changes

Back Contact Us Home Vehicle Menu Enter

GD5 2 v.20.2.06300 Navistar v2018.11.0 VIN: 1HTKTPVMXG367306 2019,International,CV515,Module Diagnostics,Power Take-Off Control Module,Configuration/Reset ... MDI 2: 88758277 12.5 V

2. Enabling the following parameters will populate them in the Information Display and will allow the operator to make PTO Speed and timeout adjustments, beyond the factory settings .

Any time programming changes have been made, the system must be allowed to learn the new configuration. Refer to Key Cycle: in Section 6.3.3 of this manual.

Below are examples of what is available on the Information Display after Personalization is enabled.

