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Coding Information

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Title: S13/T14 Integrated Powertrain PTO Parameter Configuration

Applies To: S13 Integrated Powertrain PTO, LT, RH, HX

Change Log

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

9/26/2024 - Corrected line item in the table for 2524519C91 calling out it is DUAL PTO. Added Comments column in the table for clarification. Added part for High/Low split switch and added DLB features for single and dual PTO enablement. Added a section for PTO exhaust interference.
7/10/2024 - Added information regarding aftermarket parts
7/2/2024 - Corrected a Part number for 13HAY feature
5/1/2024 - Added HX model to document
4/18/2024 - Corrected Flange Kit part numbers in the table

Description

This article will provide the necessary resources to set up PTO functionality parameters on the S13/T14 Integrated Powertrain, primarily if PTO is installed after production.

Symptoms

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
No Faults or Warning Lights	

Customer Observations or Concerns:

- PTO Functionality

Special Tools / Software

Tool Description	Tool Number	Comments	Instructions
SDS			
DLB			

Parts Required (Select as needed for application)

Part Number	Description	Feature Code	Comments

2524512C92	KIT, T14 POWER TAKE OFF, RETROFIT, INSTALL KIT (one required per retrofit)	Service Only	Kit required to properly install T14 PTO
	Select the proper PTO with ratio(s) needed from below for application		
2524517C91	KIT, T14 SINGLE POWER TAKE OFF 1.51- 1.95	13HAX	Choose only 1 of these Kits per PTO installation
2524518C91	KIT, T14 SINGLE POWER TAKE OFF 1.61- 2.07	13HAY	
2524519C91	KIT, T14 DUAL POWER TAKE OFF 1.19- 1.53	13HAV	
2524520C91	KIT, T14 DUAL POWER TAKE OFF 1.39- 1.79	13HAW	
2524521C91	KIT, T14 DUAL POWER TAKE OFF 1.51- 1.95	13HAX	
2524522C91	KIT, T14 DUAL POWER TAKE OFF 1.61- 2.07	13HAY	
2524523C91	KIT, T14 SINGLE POWER TAKE OFF 1.09- 1.40	13HAU	
2524524C91	KIT, T14 SINGLE POWER TAKE OFF 1.19- 1.53	13HAV	
2524525C91	KIT, T14 SINGLE POWER TAKE OFF 1.39- 1.79	13HAW	
	Select one or two flange kits as needed from below		
2524532C91	KIT, SAE 1310 FLANGE KIT (QTY 1 OR 2 AS NEEDED)	13HBG/13HBR	Use only if needing a driveshaft driven PTO configuration
2524533C91	KIT, SAE 1410 FLANGE KIT (QTY 1 OR 2 AS NEEDED)	13HBH/13HBS	
	Select one or two switches as needed from below		
4102418C1	SWITCH, MULTIPLEX, POWER TAKE-OFF (PTO)		PTO Switch - use with single drive output
4102438C1	SWITCH, MULTIPLEX, POWER TAKE-OFF (PTO) 1		PTO 1 Switch - use for dual drive output
4102439C1	SWITCH, MULTIPLEX, POWER TAKE-OFF (PTO) 2		PTO 2 Switch - use for dual drive output
	Misc		
4234487C1	PTO HIGH/LOW SPLIT MUX SWITCH	13HAT	PTO Drive Speed Switch - Low Split/High Split
DLB	Feature 597743 - DLB Feature for Single PTO		Required feature to enable functionality of single PTO
DLB	Feature 597307 - DLB Feature for Dual PTO		Required feature to enable functionality of dual PTO

Available Resources

Refer to the attached Body Controller integration document below for proper parameter settings regarding S13/T14 Integrated Powertrain PTO

- [DLB Body Controller Integration Guide](#)

Refer to the attached document below for ECM and TCM parameter settings for proper S13/T14 Integrated Powertrain PTO functionality

- [ECM and TCM PTO Parameter Guide](#)

Refer to the attached document below for LT/RH S13/T14 Integrated Powertrain Service Procedures

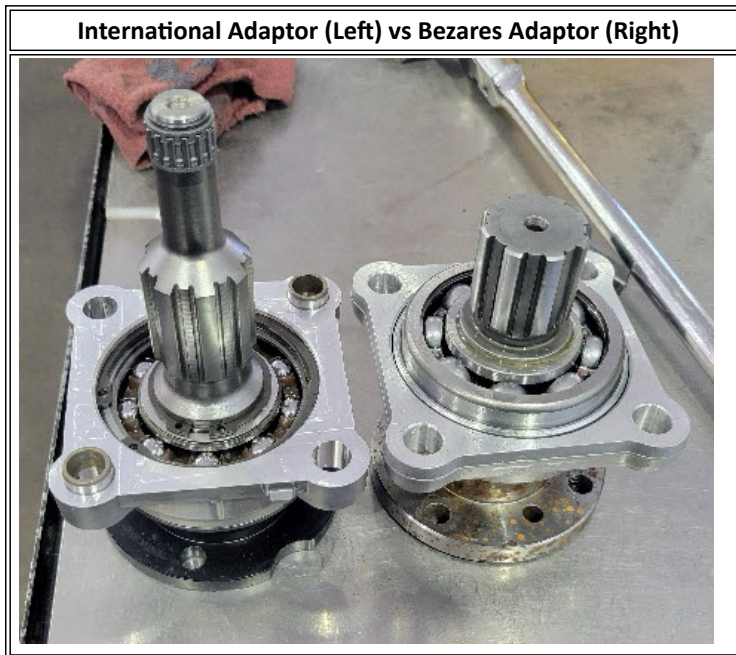
- [Model Year 2024 to Current International LT / RH Technician Manual](#)

Additional Information

Using aftermarket parts

Bezares vs International 1310/1410 Adaptors

Currently, Bezares offers 1310/1410 Adaptors for the T14 PTO which runs the risk of developing a leak due to excessive play, it is recommended to use the International adaptor instead. Reference the picture below; the International adaptor offers a stub shaft for better stabilization and fitment of the adapter.



Installing PTO on an LT/RH with Horizontal Exhaust

For awareness, if installing a PTO onto an LT/RH vehicle that currently has a horizontal exhaust, PTO interference may be experienced if using the Primary (lower) PTO.

In the condition where the Primary (lower) PTO is interfering with the exhaust, use the Secondary (upper) PTO. Please reference below for proper configuration to ensure proper PTO functionality

- Dual PTO Kit will be required
 - Switches for PTO1 and PTO2 will be required to be installed
 - DLB Feature 597743 (single PTO) will have to be removed
 - DLB Feature 597307 (dual PTO) will have to be added
 - PTO 2 Switch will operate the installed Secondary (upper) PTO, and PTO 1 Switch will do nothing
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Warranty Information

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

Other Resources

[Master Service Information Site](#)

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Feedback Information

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Staff ID	Client ID	Comments	Created Date
u302202		You received the following feedback From: u302202 - Andrew Szapacs Email Address: Andrew.Szapacs@navistar.com Feedback: Also should include the fan override switch and feature codes, Fan override switch p/n 4102413C1 feature code 597037 also need the p/n's for the current adaptors that are available to convert the Din 5462 to SAE's SAE B,BB,C etc	10/23/2024 12:46:54 PM