



# International<sup>®</sup> T14 (2023)

Overview: *Drive Mode  
Programming*

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## General Overview: Drive Mode

This feature provides programming for the vehicle Drive Mode.

This document will address Drive Mode functionality for the T14 transmission.



### Economy Mode

- Mainly in fuel economy vehicle configurations
- Lower shift speeds and after shift engine speeds
- Targets max torque range of engine curve at lower engine speeds
- Smooth comfortable shifts
- Has more fuel economy biased PCC offsets - slower



### Performance Mode

- Compromise between fuel economy and performance
- Slightly faster shift speeds and higher after shift engine speeds than Economy mode
- Higher downshift RPM
- Similar shifting characteristics to Economy (smooth and comfortable)
- Less economical PCC offsets than Eco mode - faster



### Performance+ Mode

- Mainly for vocational and max performance configurations when performance is desired over fuel economy
- Upshifts occur around maximum power curve
- Increased after shift engine speeds
- Downshift speeds optimized for power
- PCC settings allow for less offset than Perf mode - fastest



### Off-Road Mode

- Mainly for vocational vehicles
- Prioritizes a closed clutch in most situations and more aggressive shifts to keep driveline engaged in rough terrains
- Consistent shift speeds regardless of pedal position at lower vehicle speeds
- Uses normal performance+ shift schedule attributes at higher vehicle speeds

## **Description and Operation**

*NOTE: Refer to the vehicle operation and maintenance manual, as well as the T14 transmission operation and maintenance manual, for additional information on operation and indications.*

The vehicle drive mode requires TCM and BCM programming. TCM programming is done with the SDS software, while the BCM programming is done with the DLB software. The programming determines which drive modes are available and how they are controlled. The owner/operator must select the applicable programmable parameters for the desired vehicle configuration.

## Programmable Parameters

“Customer Programmable” features and parameters can be adjusted differently than the production assembly plant setting to meet customer’s needs. If a parameter is indicated as non - customer programmable, the parameter setting is preset from the factory and cannot be changed without dealer authorization.

Parameter Name	Description	Possible Values	Customer Prgm?	Recommended Setting
Enable Off Road Disengage (EOD) (D010 000)	Closed clutch has high priority if this parameter is enabled and the performance mode Off Road is active.	Disable Enable	Fleets	Customer Chosen, should be enabled if BCM 597522 (Drive Mode with Switch and with Off Road) is enabled
BCM PROG, DRIVE MODE with Switch and with Off Road (597522)	Adds switch in the dash to select between the Economy, Performance and Performance Plus, and Off Road drive modes. Parameter 3630 determines the default drive mode. Only available on HX and HV models.	N/A	Fleets	Customer Chosen
BCM PROG, DRIVE MODE Economy, without Switch (0597557)	This feature sets up a drive mode , without a switch. Parameter 3632 is set to Economy, Performance or Performance Plus mode. Available on LT, RH, HX and HV models.	N/A	Fleets	Customer Chosen
BCM PROG, DRIVE MODE, Economy, Performance, Performance Plus with Switch (0597558)	Adds switch in the dash to select between the Economy, Performance, and Performance Plus drive modes. Parameter 3631 determines the default drive mode. Available on LT, RH, HX and HV models	N/A	Fleets	Customer Chosen
BCM PROG, DRIVE MODE, Performance, Performance Plus, with Switch (0597765)	Adds switch in the dash to select between the Performance, and Performance Plus drive modes. Parameter 3960 determines the default drive mode. Available on LT, RH, HX and HV models	N/A	Fleets	Customer Chosen
BCM PROG, DRIVE MODE Economy, Performance, with Switch (0597766)	Adds switch in the dash to select between the Economy, and Performance, drive modes. Parameter 3961 determines the default drive mode. Available on LT, RH, HX and HV models	N/A	Fleets	Customer Chosen

## Frequently Asked Questions

NA

## Definitions/Acronyms

Acronym	Definition
AMT	Automated Manual Transmission
BCM	Body Control Module
DLB	Diamond Logic Builder
PIM	Powertrain Interface Module
SDS	Service Diagnostics Solutions
TCM	Transmission Control Module