

# International® T14 (2023)

## Overview: *Gear Parameters*

# TABLE OF CONTENTS

General Overview: Gear Parameters .....	1
Description and Operation.....	1
Programmable Parameters.....	1
Frequently Asked Questions .....	2
Definitions/Acronyms .....	2

## General Overview: Gear Parameters

This feature provides customer selectable forward and reverse gear selections.

This document will address the gear parameters for the T14 transmission.

## 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 T14 Transmission has several parameters that can be programmed to determine the highest gear available, and the preferred start gear as well as additional settings. These are programmed using the Service Diagnostic Solutions (SDS) software.

## Programmable Parameters

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

### Parameters for Gear Selections:

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Strict Max Start Gear (D003 000)	If enabled, the start gear is limited to the value set in PP 0xD036 (reverse) and 0xD04E (forward). Attempts by the driver to manually select a higher gear will be blocked.	1,Disabled 2,Enabled	YES	2
PTO Preselected Gear (D008 000)	The preselected gear that is automatically engaged when a split shaft PTO is activated. The default value 0 means that no gear is preselected, and the system will engage direct gear when activating a split shaft PTO.	N/A	YES	0
Split Gear in Neutral (D014 000)	Specifies split gear to be engaged when in neutral at standstill. Manual split gear changes in neutral are inhibited for option 2, 3 and 4. Split gear in neutral is displayed for option 1, 3 and 4 when a gearbox PTO is engaged. The split gear will also be displayed (and remain displayed) when the split gear is manually changed to neutral by the driver.	1, Selectable and programmed with OPC lever (default) 2,Don't care 3,Fixed split low 4,Fixed split high	YES	2

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Max Reverse Start Gear (D036 000)	Maximum allowed start gear in reverse	1 to 8	YES	4
Max Forward Start Gear (D04E 000)	The parameter decides the highest start gear that the automatic gear selection can choose	1 to 6	YES	6
Highest Available Reverse Gear (D053 000)	The maximum reverse gear available for the vehicle to use. This PP is intended for performance step purposes in the truck sales strategy.	1 to 8	DEALER	2
Manual Mode Timeout Gear Limit (D078 000)	If the driver has activated manual mode and stayed in this mode for more than 10 minutes, the cluster will start to beep to remind the driver to switch back to automatic mode. By setting this parameter, it is possible to limit this feature or even turn it off completely. This works as follows. The beep will only be sound if the gear is equal to or higher than the parameter value. If the value is set to 15, the beep will never sound.	1 to 15	YES	15
Default Start Gear in Reverse (D084 000)	Selects a fixed start gear in reverse	1 to 8	YES	1

## Frequently Asked Questions

NA

## Definitions/Acronyms

Acronym	Definition
TCM	Transmission Control Module
PIM	Powertrain Interface Module
AMT	Automated Manual Transmission