

International® T14 (2023)

Overview: *Two Speed Axle
Parameters*

TABLE OF CONTENTS

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

General Overview: Two Speed Axle

This feature provides programming for PTO support.

This document will address the unique Two Speed Axle functionality 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 Two Speed Axle feature utilizes CEM, TCM and BCM programming to allow the owner/operator to select the customer programmable parameters for the desired vehicle configuration.

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.

Parameter Name	Description	Possible Values	Customer Prgm?	Recommended Setting
(TCM) Two Speed Axle Configuration (D54B 000)	Two speed axle configuration	1, Without two speed axle 2, With two speed axle	DEALER	Customer Chosen
(TCM) Two Speed Axle Low Ratio (TSALR) (D545 000)	Two speed axle low range ratio	Ratio = 1 if not available	YES	Customer Chosen
(CEM1) Two Speed Axle Gear Ratio (SAGR) (10CC 000)	Gear ratio for low range gear in two speed axles.		DEALER	Customer Chosen

Parameter Name	Description	Possible Values	Customer Prgm?	Recommended Setting
(PIM) Rear Axle Ratio Low (RARL) (B107 000)	Two speed axle low range ratio		DEALER	Customer Chosen
(PIM) Rear Axle Ratio High (RARH) (B107 001)	Two speed axle high range ratio		DEALER	Customer Chosen
(BCM) RR AXLE SHIFT CONT with Dash Mounted HI/LOW switch (597182)	2 speed rear axle with dash mounted HI/LOW switch. Switch in switch pack	Enabled Disabled	YES	Customer Chosen
(BCM) RR AXLE SHIFT CONT without Dash Mounted HI/LOW switch (597181)	2 speed rear axle without Dash Mounted HI/LOW switch. Switch mounted remotely with circuit into BCM	Enabled Disabled	YES	Customer Chosen

Frequently Asked Questions

NA

Definitions/Acronyms

Acronym	Definition
AMT	Automated Manual Transmission
CEM1	Engine Control Module
PIM	Powertrain Interface Module
TCM	Transmission Control Module