

International[®] S13 Integrated (2024)

Overview: *Secondary Road Speed
Limiting* 06/13/2025

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General Overview: Secondary Road Speed Limiting (SRSL)

The Secondary Road Speed Limit feature can limit vehicle speed when the snow plow is lowered, dump bucket is raised, or other vehicle accessory is activated its maximum vehicle speed on a level road and can be set for a blend of fuel economy and performance.

Description and Operation

NOTE: Refer to the vehicle operation and maintenance manual, as well as the S13 engine operation and maintenance manual, for additional information on operation and indications.

For this feature to activate, Body Control Module (BCM) Feature (0597525) “Secondary Road Speed Limit use with International S13 Engines” must be Installed using the Diamond Logic Builder (DLB) software.

The Engine Control Module (ECM) Secondary Road Speed Limit Enable (B121 000) parameter must also be Enabled. The Secondary Road Speed Limit Vehicle Speed Limit (B121 001) programmable parameter can be set between 24.85 and 74.56 mph. Lower set speeds may be available. All ECM and PIM programming is accomplished using the Service Diagnostic Solutions (SDS) software.

This feature focuses on vehicles with the following accessories:

- Snow plow • Salt spreader • Hi-rail • Street sweeper • Dump body
- Line painter • X-ray unit



Dump Bed Raised (Typical)

This feature can be activated by either a body builder installed hardwired proximity sensor input Signal (RSL_Input), or with a Diamond Logic® Builder (DLB) Advanced Logic Signal (Road_Speed_Limiting_DLB_Req). If a proximity sensor is used, this feature can be activated when the vehicle snow plow is lowered, dump bucket is raised, or other vehicle accessory is moved from its resting position. This will cause the proximity sensor to complete a circuit between ground and BCM connector J5 (1602) pin F-11.

When this feature is activated, the BCM will send a J1939 Controller Area Network (CAN) Signal (AVSL_Enable_Switch) to the ECM via SPN 1653. The ECM will limit engine throttle control until vehicle speed is below the Secondary Road Speed Limit programmable parameter Value.

Feature Interaction

During Mobile PTO and / or Cruise Control operation, if the Secondary Road Speed Limit feature is activated, vehicle speed will be limited to the Secondary Road Speed Limit programmable parameter Value.

Programmable Parameters

The following programmable parameters, in the PIM, are required for Secondary Road Speed Limit operation. These parameters should be programmed to the operation which will best suit the vehicle conditions expected. Parameters indicated as Customer Programmable can be adjusted differently than the production assembly plant setting to meet the customer’s needs. If the parameter is indicated as non-customer programmable, the parameter setting is preset from the factory and cannot be changed without authorization.

SRSL Parameters

Parameter Value	Description	Possible Values	Cust Pgrm?	Recommended Settings
Secondary Road Speed Limit Enable (SRSLE) (B121 000)	Enables or disables feature.	- Enable - Disable	YES	As desired by the customer
Secondary Road Speed Limit Vehicle Speed Limit (SRSSLVSL) (B121 001)	The ECM will limit engine throttle control until vehicle speed is below this programmable parameter Value. During Mobile PTO and / or Cruise Control operation, if the Secondary Road Speed Limit feature is activated, vehicle speed will be limited to this programmable parameter Value.	24.85 - 74.56 (mph) Note: Lower Value may be selectable.	YES	Customer Chosen

Parameter Setup

This section briefly describes one example of Secondary Road Speed Limit configuration and operation. Please review the Description and Operation and Programmable Parameters sections for a better understanding of how Secondary Road Speed Limit parameters might be best configured for your vehicle.

EXAMPLE:

In this example, the customer requires vehicle speed to be 35 mph or less when the snow plow is lowered.

Adjust parameters as follows:

Parameter Name	Action Required
Secondary Road Speed Limit Enable (SRSLE) (B121 000)	Set to Enable
Secondary Road Speed Limit Vehicle Speed Limit (SRSSLVSL) (B121 001)	Set to 35 MPH

Definitions/Acronyms

The following terms are referenced in this document:

Acronym	Definition
BCM	Body Control Module
CAN	Controller Area Network
DLB	Diamond Logic Builder
ECM	Engine Control Module
PIM	Powertrain Interface Module
PTO	Power Take Off
SPN	Suspect Parameter Number