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Coding Information

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Title: Vehicle Speed (VSS) Output for Bodybuilders

Applies To: VSS and Bodybuilders

CHANGE LOG

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

10/12/2015 - Author updated for feedback purposes
 2/27/2015 - Fixed broken links
 12/4/2018 - Revised Resolution Section to include other sales codes and options.

DESCRIPTION

Many Bodybuilders need a VSS output to run things like sanders. On the Gen 3 Allison transmissions this was provided in the transmission spare inputs and outputs. On the Allison Gen 4 and 5 transmissions it is not provided.

RESOLUTION

Here are the available possibilities:

- Sales code 12VYL, ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use, provides a VSS output from the engine ECM that is calibrated to 30,000 pulses per mile.
- Sales codes for trucks with International engines can be ordered with engine interface connectors that provide a VSS output circuit. These features include 12VYC, 12VZA, 12VZB, 12VGA. Refer to the applicable circuit diagram manual for the vehicle in question.
- Vehicles with International engines that were not ordered with any of these sales codes would need to add a pin to the ECM to gain access to the VSS output from the ECM. Refer to the applicable circuit diagram manual for the vehicle in question.
- The ECM on vehicles with Cummins engines does not provide a VSS signal. The VSS can be obtained by adding an additional VSS sensor to the manual transmission or by the a circuit can be added to the VSS source at the TCM on trucks with automatic transmissions. The Cumins engine does not use this hardwired signal as it picks up the signal from the data link. Refer to the applicable circuit diagram manual for the vehicle in question.
- If none of these feature codes or options are available, the only other recommended possibility is to buy an after market device that can read the VSS off of the 1939 data link. There are several manufacturers that sell these and most of them have an output that can be used by the bodybuilder.

OTHER RESOURCES

- After market Gauges <http://www.ametekdixson.com/>
- After market Gauges <http://www.isspro.com/proddetail.php?prod=R4605>

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