

SIL 22-EP-17
November, 2017
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SUBJECT: Release of Allison Transmission 5th Generation Controls

MODELS AFFECTED: H 40/50 EP™ System

Introduction:

Effective with model year 2018, Allison Transmission will release 5th Generation Controls and software for the H 40/50 EP™ product line. The primary change involves a new controller configuration used to support 500k baud CAN communication in vehicles. Three (3) 5th Generation A64 controllers will be used:

- Hybrid Gateway Module (HGM)
- Transmission Control Module (TCM)
- Vehicle Control Module (VCM)

The new HGM will bridge the 500k baud vehicle CAN and the 250k baud H 40/50 EP™ CAN (refer to [Figure 1](#)).

Serviceability:

The A64 TCM (P/N 29556885) will be used for the TCM, VCM, and the new HGM controller. The new 5th Generation controllers are not backwards compatible in vehicles with 4th Generation Control configurations.

Part number changes (refer to [Table 1](#)) and new System Identification Numbers (SIDs) will be required. Also, there will be a required modification to Allison DOC® and Allison TCM Reflash to support loading the H 40/50 EP™ System SIDs into the 5th Generation controllers.

Table 1. New Base TCM Part Numbers

TCM Model	Part Numbers
A54 (4th Generation)	29549402
A64 (5th Generation)	29556885

SM / SL8062EN

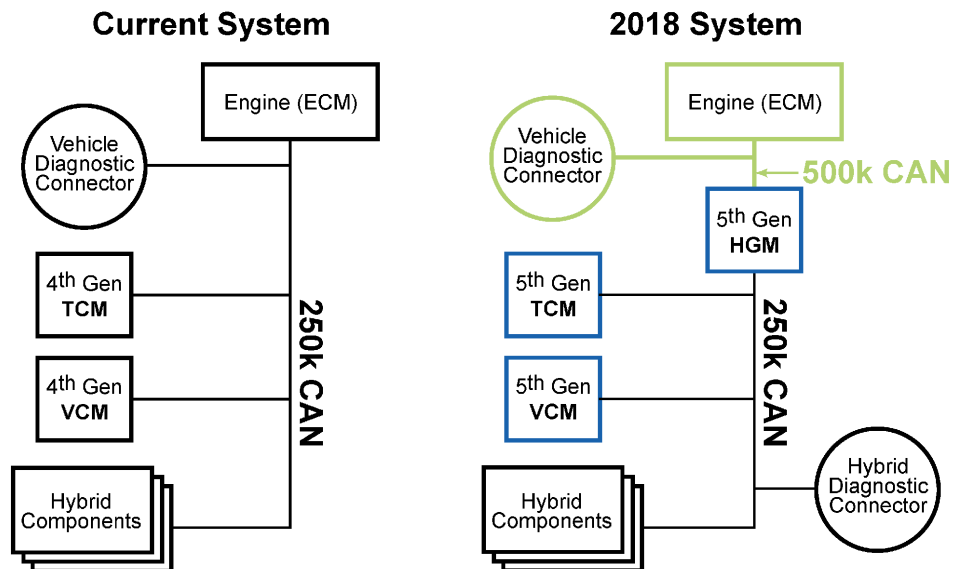
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NOTE: The green 500k baud diagnostic connector located in the driver's compartment cannot be used for Allison DOC® or Reflash Programming. Allison diagnostics and programming tools must use a black 250k baud diagnostic connector located on the rear panel of the bus. A 50-foot high speed Universal Serial Bus (USB) extender may be needed to work with a translator at the rear diagnostic connector and a laptop located near the driver's compartment (refer to [Figure 2](#)).



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Figure 1. Current System vs. 2018 System



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Figure 2. Example of USB Extender