

TT7780EN
March, 2016
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SUBJECT: PACCAR North American MY2016 Vehicles and Allison Electronic Service Tools

MODELS AFFECTED: 1000, 2000, 3000 and 4000 Series Product Family Transmissions

Background:

In model year 2016 vehicles manufactured for the North America market, PACCAR changed the SAE J1939-13 diagnostic connector type and pin locations for the vehicle controller area network (VCAN). Beginning in model year 2016, PACCAR vehicles are equipped with the green Type 2 SAE J1939-13 connector (refer to Figure 1). The PACCAR V-CAN and Allison transmission control module (TCM) is connected to pins F and G. PACCAR model year 2015 and earlier used the black Type 1 SAE J1939-13 connector with the V-CAN and TCM connected to pins C and D. Refer to [Figure 2](#) for pin locations differences between PACCAR's Type 1 and Type 2 diagnostic connector.

Issue:

Allison electronic service tools (i.e. Universal Allison DOC® and Allison TCM Reflash™) cannot communicate with a TCM connected to pins F and G. Refer to [Figure 3](#) and [Figure 4](#) for examples of the warning screens that will occur when attempting to connect to a North American model year 2016 or later PACCAR vehicle.

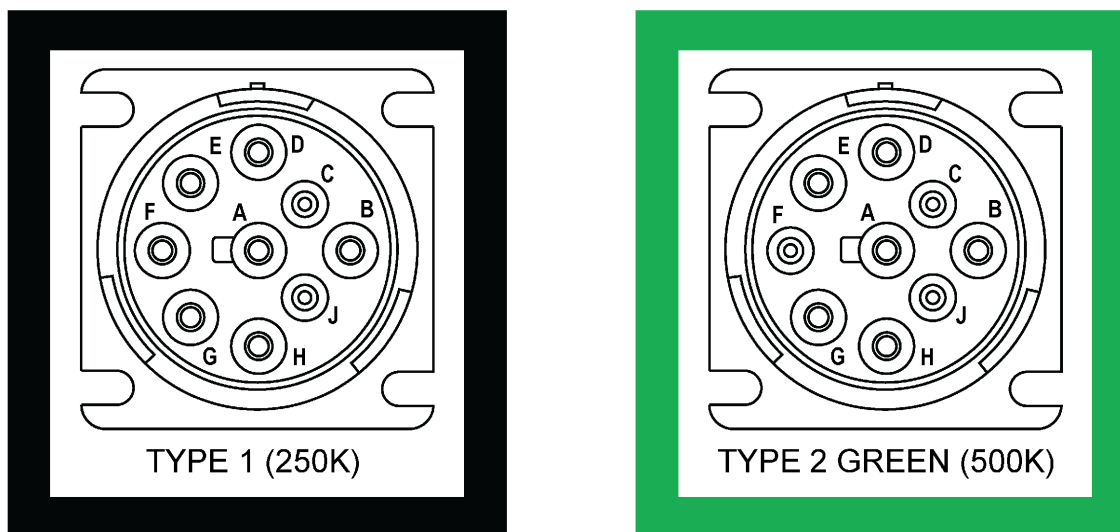
Action:

PACCAR released a pass-through cable part number 42-02848 known as "Cable, Y-adapter, DLA green" to allow communications with the Vehicle CAN and TCM. Authorized Allison service locations are approved to use PACCAR's adapter cable to connect with Allison Electronic Service Tools. The adapter cable may be obtained from a local Kenworth or Peterbilt dealer.



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Figure 1. Tool Side and Connector Side



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Figure 2. Connectors

Pin	Circuit Assignment (MY2015 and before)	Pin	Circuit Assignment (Beginning MY2016)
A	Ground	A	Ground
B	+12V	B	+12V
C	J1939 @ 250 kbps (Vehicle CAN)	C	J1939 High @ 500 kbps (OBD CAN)
D		D	
E	Not Connected	E	Not Connected
F	J1587/J1708	F	J1939 @ 250 kbps (Vehicle CAN)
G		G	
H	CAN2 High	H	CAN_H @ 250 kbps or Spare
J	CAN2 Low	J	CAN_L @ 250 kbps or ISO9141 K-Line

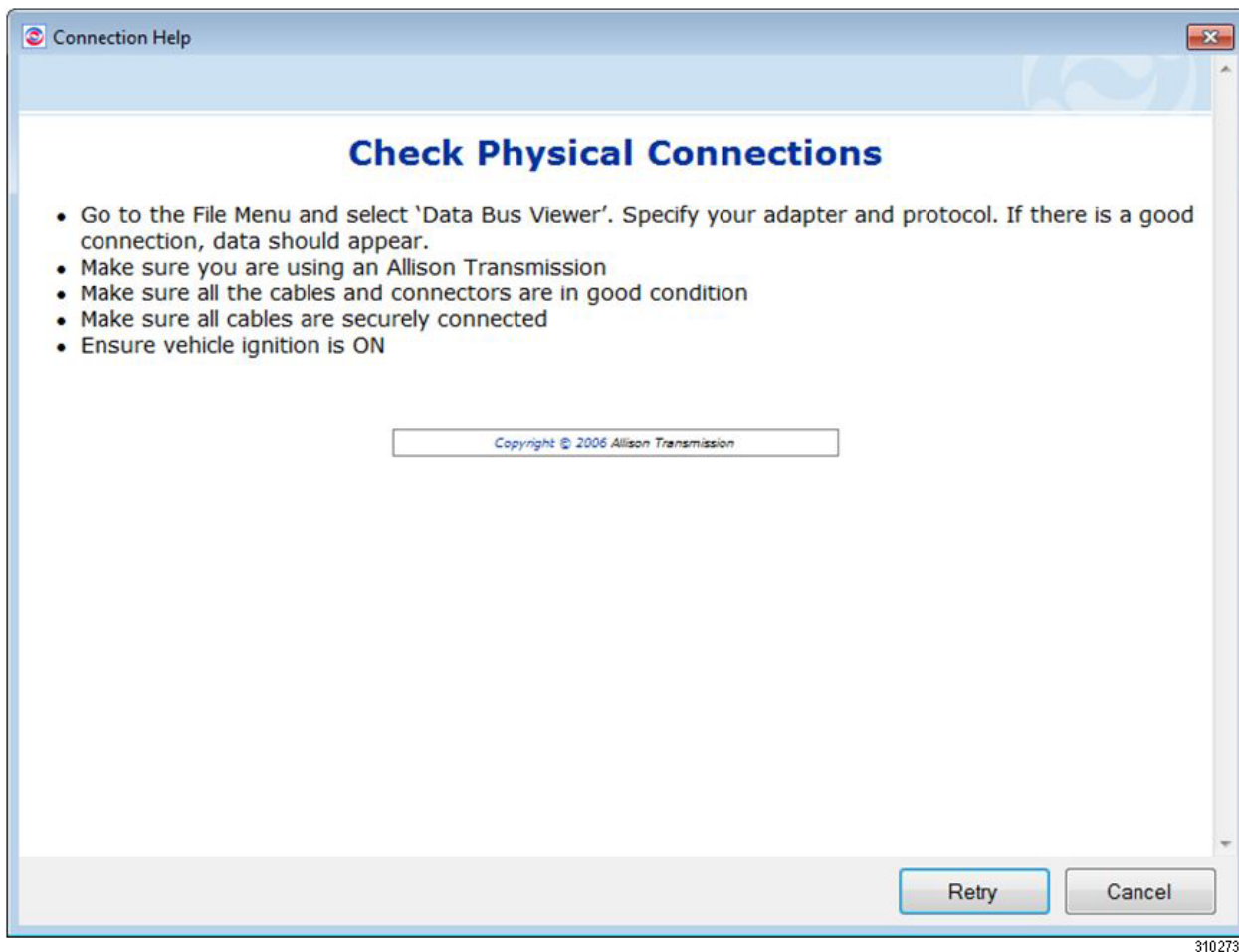


Figure 3. Check Physical Connections

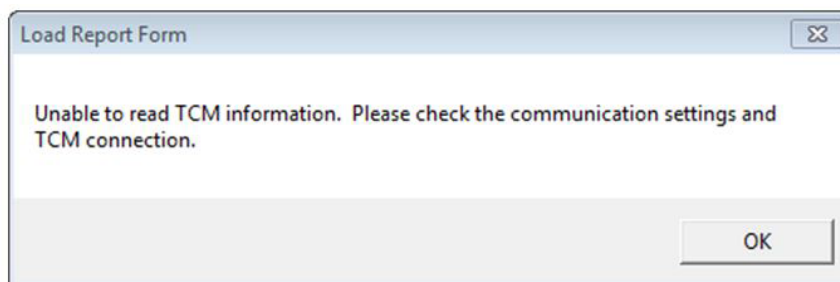


Figure 4. Unable to Read TCM Information