

Connecting the Chassis Harness Connector to the Cab Front Wall 104-Way Pass-Through Connector

54-076

Constellation
Heritage
4700 Models
4800 Models
4900 Models

> 49X Models
5700 Models
5900 Models
6900 Models

Western Star
Service Bulletin

General Information

The chassis harness connector in the Western Star 49X (see [Fig. 1](#)) connects to a 104-way pass-through connector (see [Fig. 2](#)) at the cab front wall.

This bulletin describes how the chassis harness connector functions and how to verify the four locks of the terminal stabilizer plate on the 104-way pass-through connector are in pre-stage position. The terminal stabilizer plate is the white plastic plate located inside the 104-way pass-through connector. The stabilizer plate floats up and down in the pass-through connector to protect the terminals from being damaged when the chassis harness connector is removed and connected.

If the locks on the terminal stabilizer plate are not in pre-stage position, they can be manually reset using tool DK10CHA17002-12 (see [Fig. 3](#)).

The terminal stabilizer plate locks need to be in pre-stage position before engaging the chassis harness connector.



Fig. 1, Chassis Harness Connector

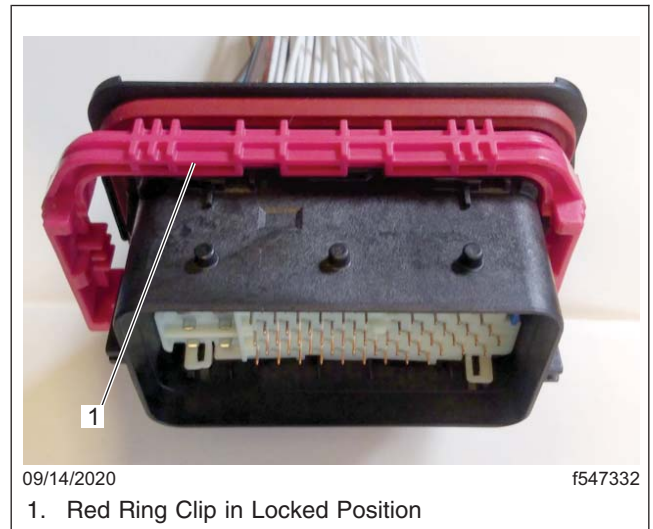


Fig. 2, 104-Way Pass-Through Connector



Fig. 3, Tool for Resetting the Terminal Stabilizer Plate Locks

How the Connectors Engage

The four terminal stabilizer plate locks located in the 104-way pass-through connector release a sliding lock feature on the chassis harness connector that allows the chassis harness connector's lever to move up and lock into position. This ensures the connectors are fully engaged.

When the chassis harness connector is removed from the pass-through connector, the stabilizer plate should be up, away from the front wall of the cab. This protects the terminals from damage when the chassis harness connector is reconnected.

If the terminal stabilizer plate is not up, the four terminal stabilizer plate locks will not engage and release the sliding locking feature in the chassis harness connector. This means that the lever on the chassis harness connector will not move upward and therefore that the harness connector and the pass-through connector will not fully engage.

Do the following to make sure the connectors fully engage.

1. Ensure none of the terminals in the 104-way pass-through connector are bent.
2. Ensure the red ring clip is in the locked position, with space between the bottom of the 104-way pass-through connector and the ring clip. See [Fig. 2](#) and [Fig. 4](#).

Connecting the Chassis Harness Connector to the Cab Front Wall 104-Way Pass-Through Connector

54-076

Constellation
Heritage
4700 Models
4800 Models
4900 Models

> 49X Models
5700 Models
5900 Models
6900 Models

Western Star
Service Bulletin

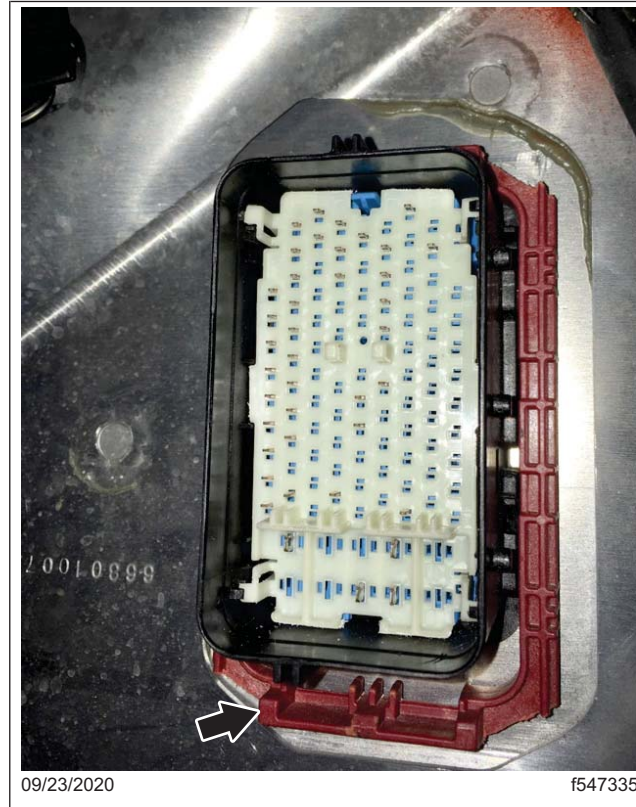


Fig. 4, Ring Clip in Locked Position

3. Ensure the terminal stabilizer plate in the 104-way pass-through connector is fully lifted. Terminal exposure should be minimal as shown in [Fig. 5](#) and all four stabilizer plate locks should be in the pre-stage position as shown in [Fig. 6](#).

54-076

Connecting the Chassis Harness Connector to the Cab Front Wall 104-Way Pass-Through Connector

Western Star
Service Bulletin

Constellation
Heritage
4700 Models
4800 Models
4900 Models

> 49X Models
5700 Models
5900 Models
6900 Models

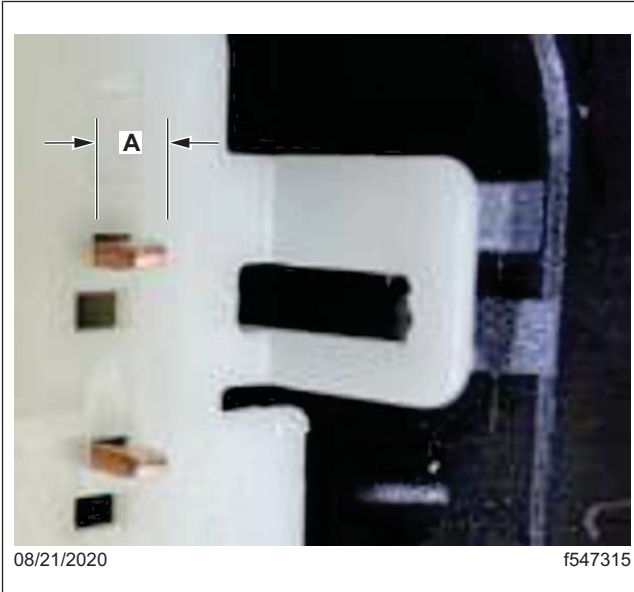


Fig. 5, Minimal Terminal Exposure

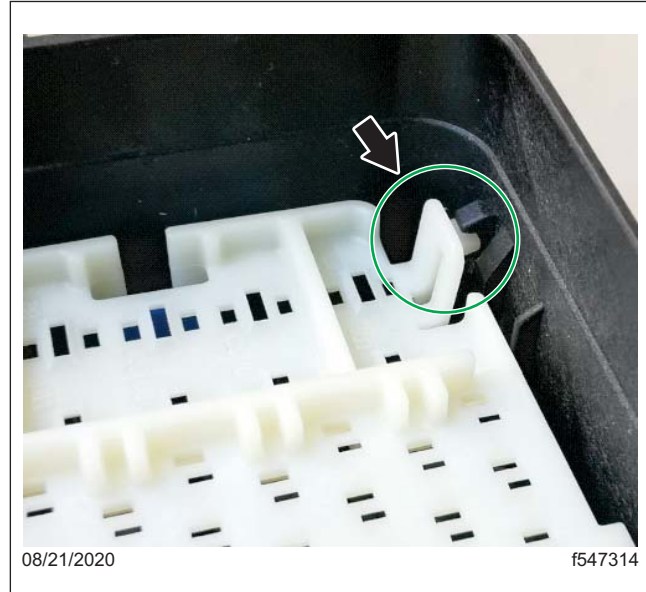


Fig. 6, Stabilizer Plate Lock in Pre-Stage Position

4. If the locks are not in the pre-stage position, manually lift up the terminal stabilizer plate. See [Fig. 7](#) and [Fig. 8](#).

Connecting the Chassis Harness Connector to the Cab Front Wall 104-Way Pass-Through Connector

54-076

Constellation
Heritage
4700 Models
4800 Models
4900 Models

> 49X Models
5700 Models
5900 Models
6900 Models

Western Star
Service Bulletin



Fig. 7, Hook on Tool DK10CHA17002-12



Fig. 8, Using the Hook to Lift the Stabilizer Plate into Pre-Stage Position

5. Move the chassis harness connector lever into the fully released position. The unlocked lever will fit over a plastic tab on the plug body. See [Fig. 9](#).

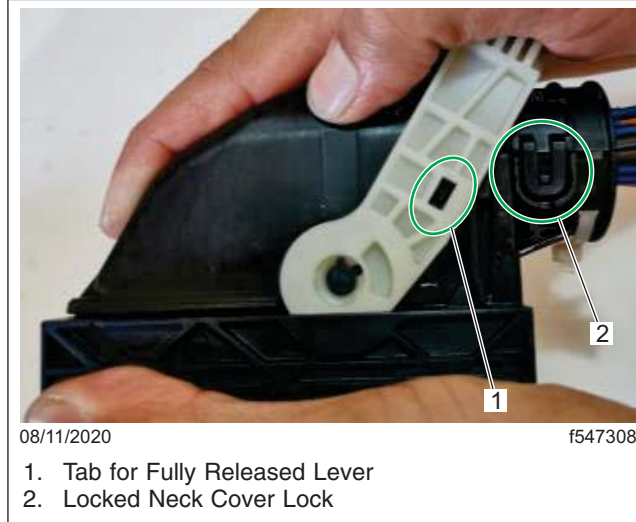


Fig. 9, Chassis Harness Connector Lever in Fully Released Position

6. Ensure the chassis harness connector is parallel with the 104-way pass-through connector as shown in [Fig. 10](#) and [Fig. 11](#). This will align the top and bottom guide tracks on the 104-way pass-through connector with the guide covers on the chassis harness connector. See [Fig. 11](#).

Connecting the Chassis Harness Connector to the Cab Front Wall 104-Way Pass-Through Connector

54-076

Constellation
Heritage
4700 Models
4800 Models
4900 Models

> 49X Models
5700 Models
5900 Models
6900 Models

Western Star
Service Bulletin

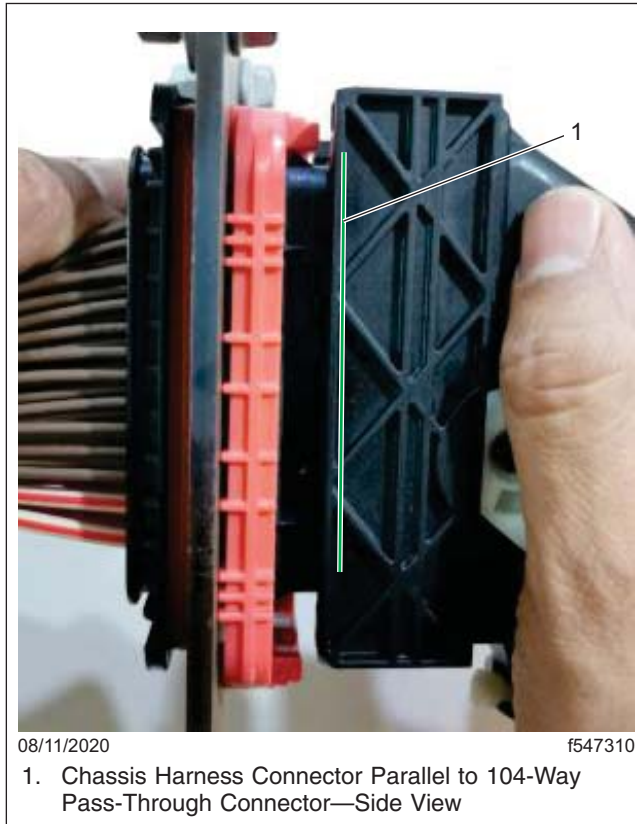


Fig. 10, Side View of Parallel Connectors

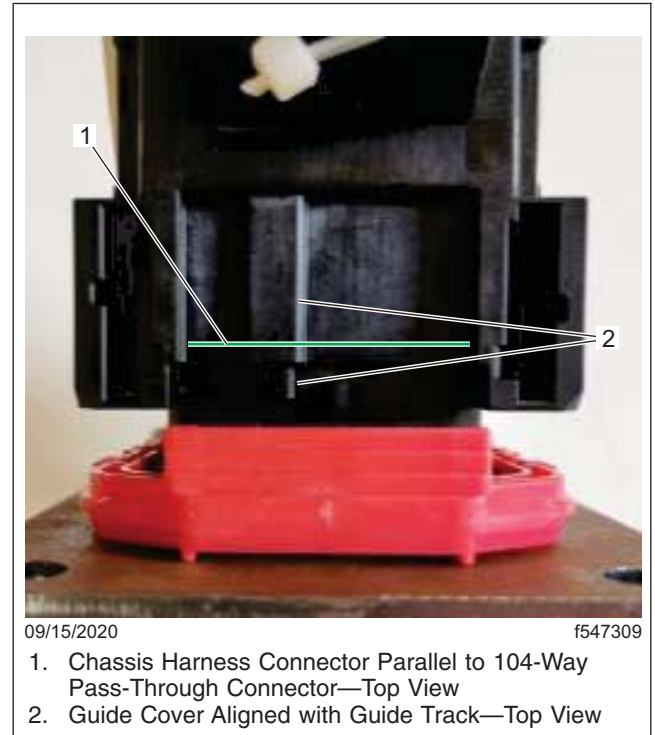


Fig. 11, Top View of Parallel Connectors

7. Press the chassis harness connector firmly and evenly against the 104-way pass-through connector. The pressure will release the sliding lock feature from its pre-state position, unlocking the chassis harness connector lever.
8. Move the chassis harness lever upwards to fully engage and lock the connectors. A locked lever will snap into place on the tab at the top of the chassis harness connector body. See [Fig. 12](#).

54-076

Connecting the Chassis Harness Connector to the Cab Front Wall 104-Way Pass-Through Connector

Western Star
Service Bulletin

Constellation
Heritage
4700 Models
4800 Models
4900 Models

> 49X Models
5700 Models
5900 Models
6900 Models

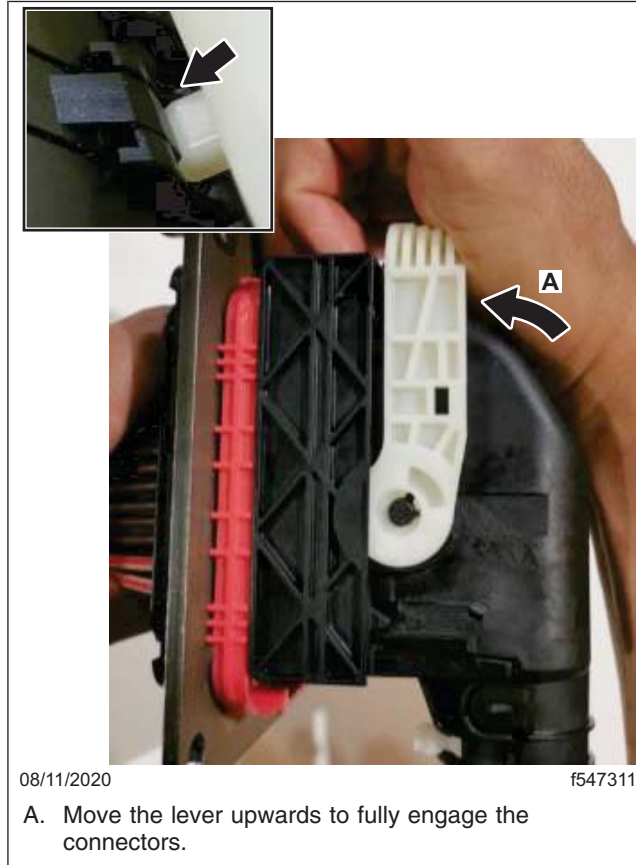


Fig. 12, Locked Connectors

Warranty

This is an informational bulletin only. Warranty does not apply.