



# Vision Wiper Motor Electrical Connector

# RECALL

Models Affected: Certain 2016 – 2017 Vision

## ISSUE

Windshield wiper motor harness electrical connector may have been assembled incorrectly. Wiring terminals slides were not fully seated into the connector on some wiper motors. This issue could cause the wiper system to stop operating without warning and in adverse conditions this issue could cause degradation of driver visibility.

## CORRECTIVE ACTION

### INSPECTION:

Inspect for loose wires per attached instructions page 2.

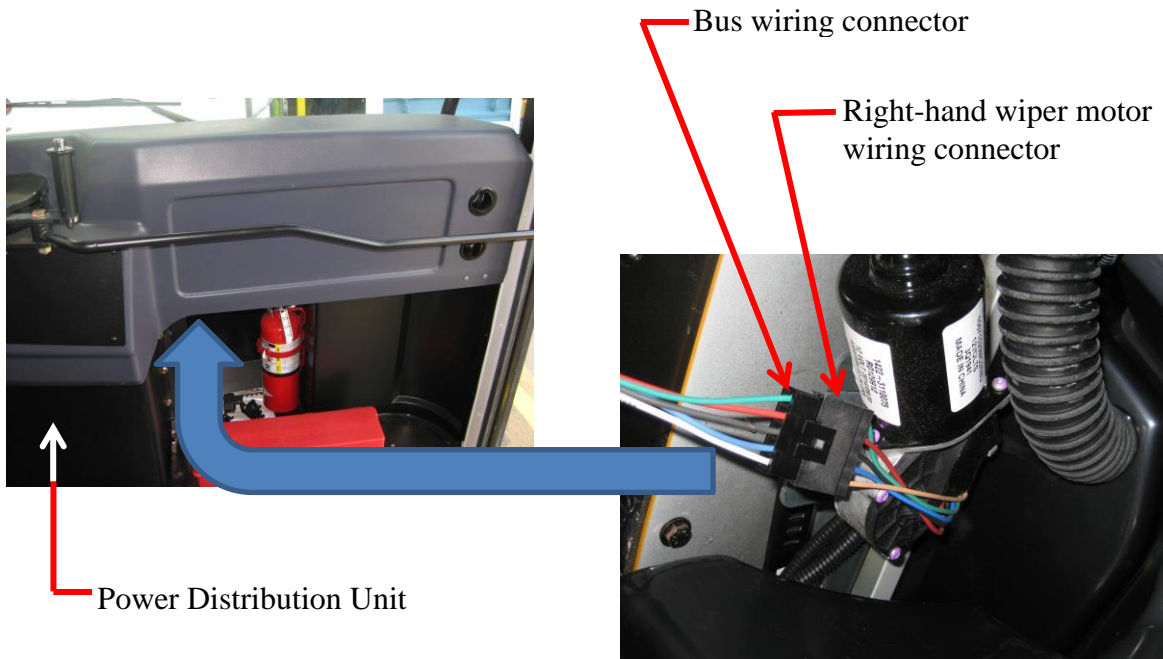
### REPAIR:

Repair loose wires per attached instructions pages 3 through 5. If a connector has been damaged for any reason, replace per attached instructions pages 5 through 10.

## PROCEDURE

**WARNING:** Always follow all Federal, State, Local and Shop safety standards and use proper safety equipment, and thoroughly read and understand all instructions before performing these procedures.

1. Park bus, turn off ignition and remove the keys.
2. Locate the wiper motors and inspect and repair if necessary, per attached instructions pages 1-5.
3. The right-hand wiper motor is located to the right side of Power Distribution Unit.



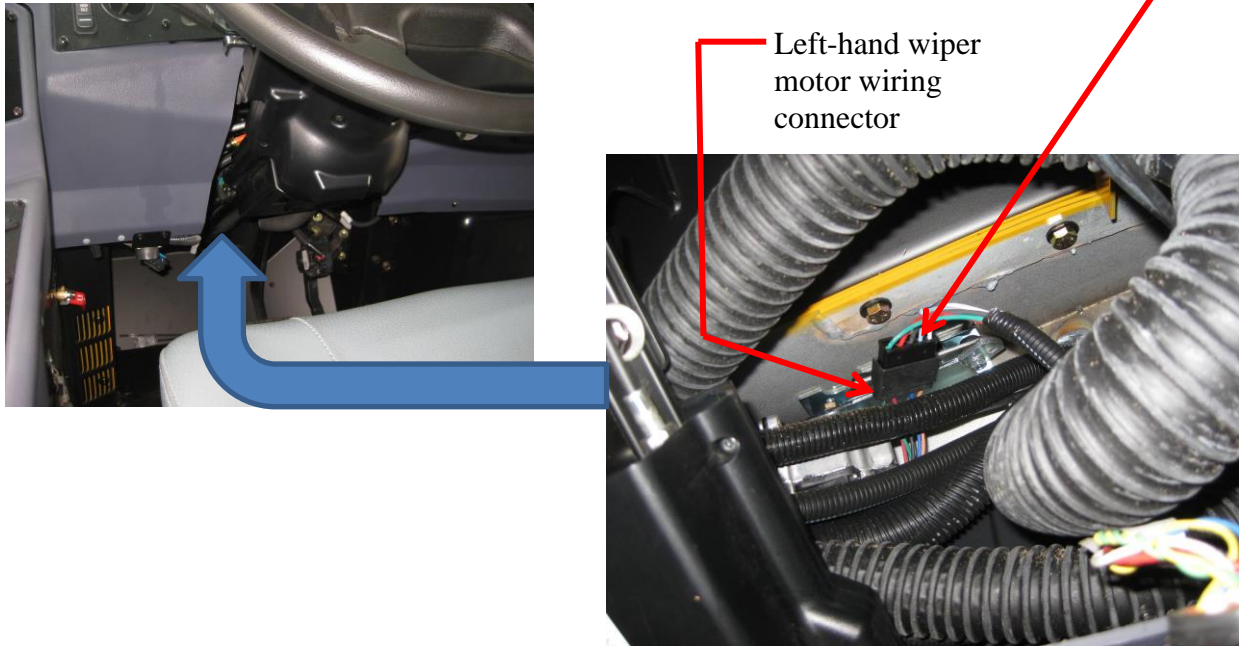
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4. The left-hand wiper motor is located on the left-side of the steering column.



### NOTE:

#### **DO NOT REMOVE THE WIPER MOTOR FROM THE BUS.**

The inspection and repair is to be completed with wiper motor installed on the bus. The instructions are generic for inspecting and/or repair whether the motor is installed on a bus or laying on a bench.

5. If any wire is found to be loose during the inspection process, disconnect the wiring connector before performing repair using instructions on pages 1 through 5. If a terminal or connector is damaged, contact Blue Bird Recall Administration for a new terminal or connector. Replace damaged connector with new connector using instructions pages 6 through 10.
6. After the inspection and/or repair have been completed, place ignition key back into the ignition switch and turn the bus on.
7. Operate the wipers to confirm that wipers operate in all speeds.
8. If no problems found, place bus back into service.

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## 1.0 Objective

1.1 These work instructions will describe the process of inspecting and repairing the electrical connectors of 105715 motors.

## 2.0 Terminology

2.1 Connector



2.2 Terminal



## 3.0 Tools

3.1 Miniature Flathead screwdriver with flat head width of 1/8"



3.2 Miniature Pliers





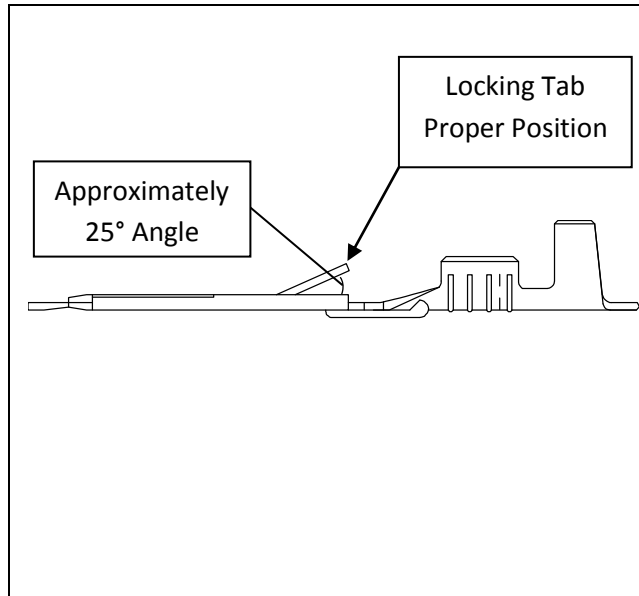
1. Inspect the connector body for damage.

If any damage to the connector body is found please see Work Instruction "105715 Connector Replacement Instructions".

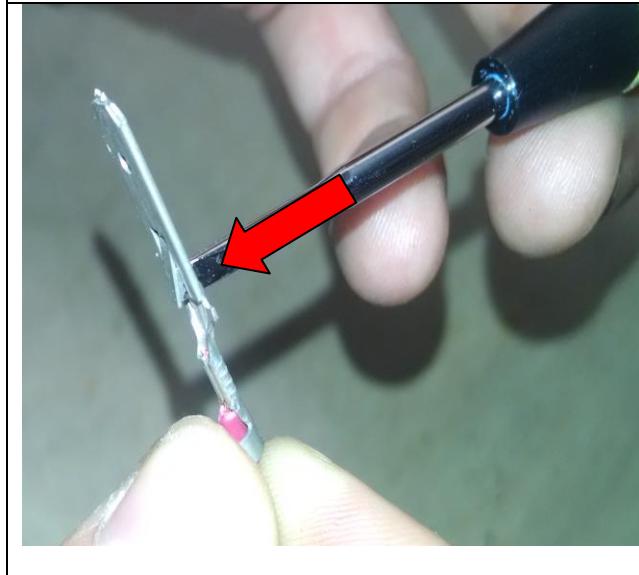
If no damage is found move on to step 2.



2. Pull on each wire of the motor connector and try remove the terminals, any terminals which will not pull out are inserted securely.



3. Examine each loose terminal for proper locking tab position, if the terminal does not match the picture shown perform step 4. If the terminal has the locking tab in the correct position move on to step 5.



4. Using the miniature screwdriver push the locking tab outwards until it matches the image shown in step 3.

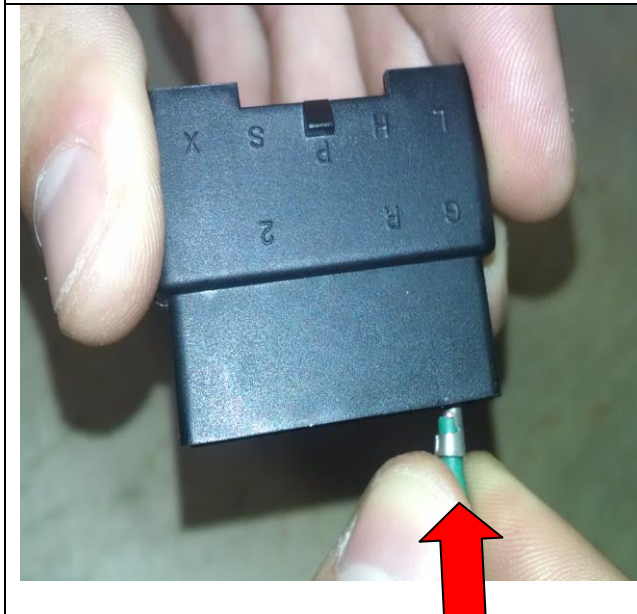




5. The motor connector has labeled cavities corresponding to the correct wire color.

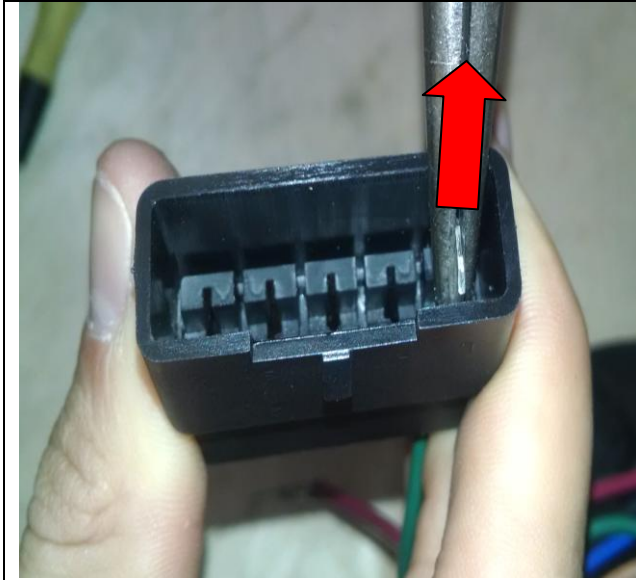
- L – Green
- H – Red
- P – Black
- S – Blue
- X – Brown

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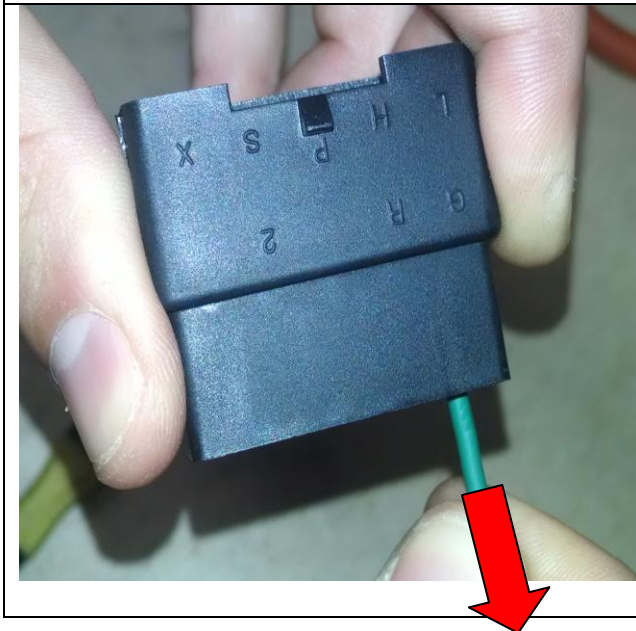


Insert the terminals into the connector until a “clicking” sound can be heard, this is the locking tab engaging with the connector body.

continued in next cell



If no clicking sound can be heard gently pull on the terminal with the miniature pliers until a “click” is heard. Insure that the terminal is not pulled through the connector.



6. Try to pull each terminal out of the connector to verify proper installation. If the terminal moves freely repeat steps 3 – 6.

## 1.0 Objective

- 1.1 These work instructions will describe the process of replacing the electrical connectors of 105715 motors.

## 2.0 Terminology

- 2.1 Connector



- 2.2 Terminal



## 3.0 Tools

- 3.1 Miniature Flathead screwdriver with flat head width of 1/8"



- 3.2 Miniature Pliers



- 3.3 Replacement 400121 connectors

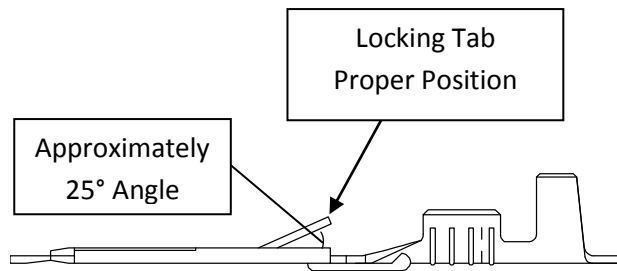




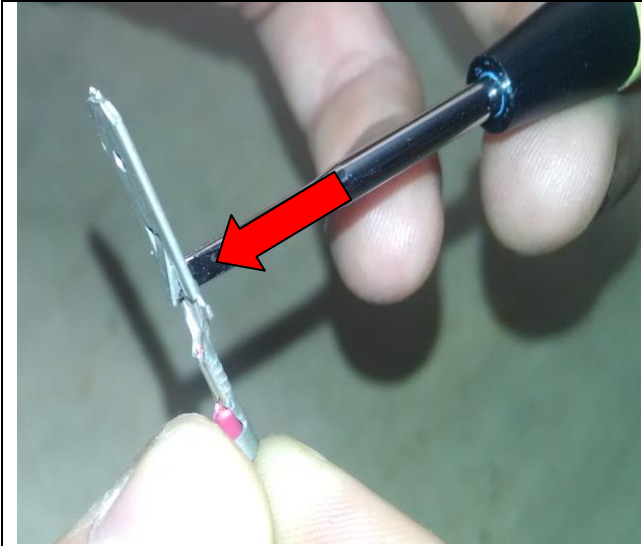


1. To remove the wires from the damaged connector locate the terminal locking tabs as shown.
2. Use the miniature screwdriver to push in the locking tab while also pulling on the wire until the terminal slides free from the connector. Loose wires will not require pushing in the locking tab. Repeat this step for all terminals remaining in the connector.

Discard the damaged connector.



3. Examine each loose terminal for proper locking tab position. If the terminal does not match the picture shown move on to step 4. If the terminal has the locking tab in the correct position move on to step 5.



4. Using the miniature screwdriver push the locking tab outwards until it matches the image shown in step 3.



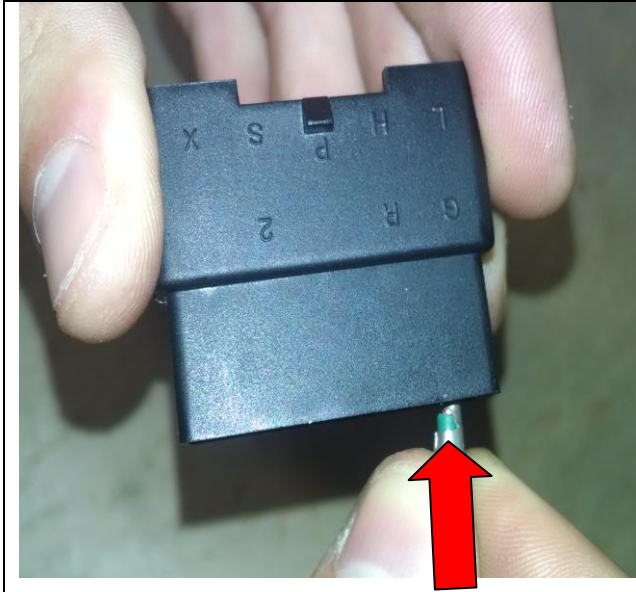
5. The 400121 connector has labeled cavities corresponding to the correct wire color.

L – Green  
H – Red  
P – Black  
S – Blue  
X – Brown

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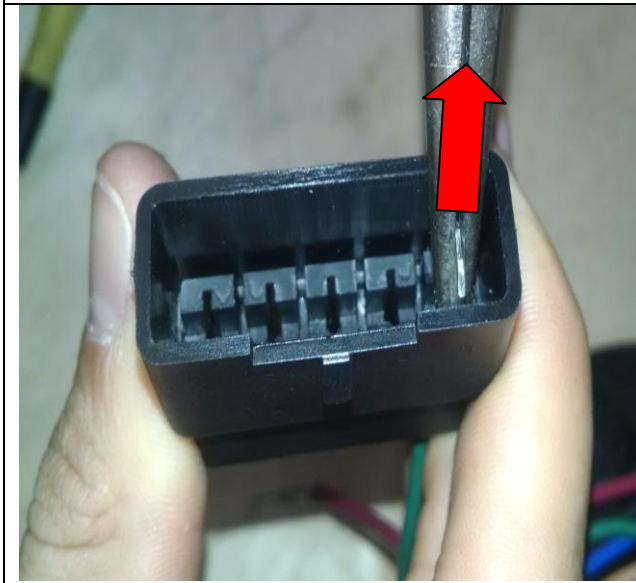
# Wiper Motor Electrical Connector Replacement Instructions

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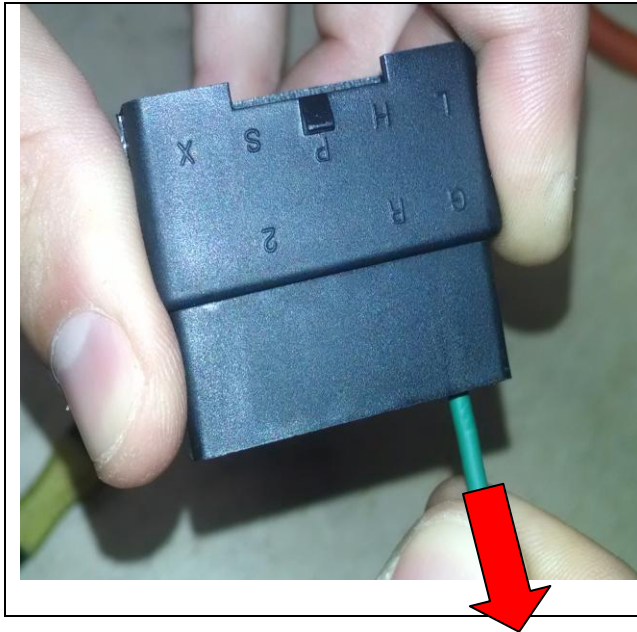


Insert the terminals into a new 400121 connector until a “clicking” sound can be heard, this is the locking tab engaging with the connector body.

continued in next cell



If no clicking sound can be heard gently pull on the terminal with the miniature pliers until a “click” is heard. Insure that the terminal is not pulled through the connector.



6. Try to pull each terminal out of the connector to verify proper installation. If the terminal moves freely repeat steps 3 – 6.