 HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin	GROUP BODY ELECTRICAL	NUMBER 17-BE-006
	DATE JUNE, 2017	MODEL(S) ALL
SUBJECT:	GUIDE FOR WIRING HARNESS AND CONNECTOR REPAIR	

This bulletin supersedes TSB 15-BE-004 to update the wiring connector ordering information.

Description: This TSB provides information for wire harness connector repair. This TSB has been developed to improve customer satisfaction by simplifying the repair of electrical wire harnesses. It can also save costs and improve dealer service capabilities by making repairs more efficient than the replacement of an entire harness assembly.

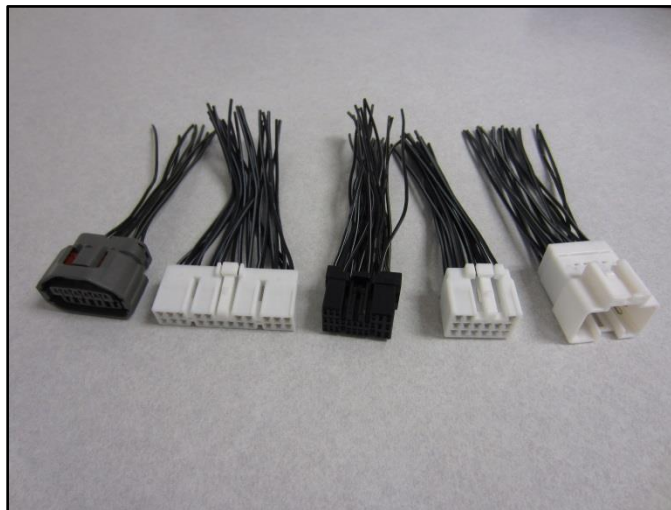
Applicable Vehicles: All Vehicles

NOTICE

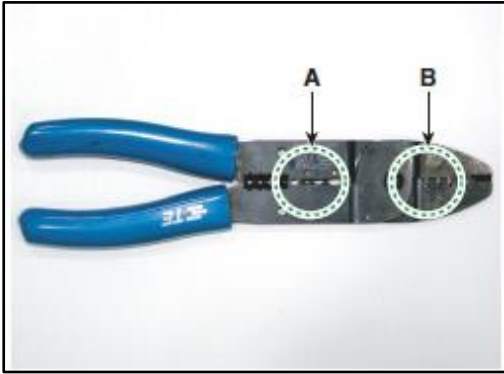



If the estimated cost of the connector repair exceeds the cost of replacing the harness, then it is advisable to replace the wire harness.

CAUTION

Do not perform any connector repair that is related to a seatbelt or restraint system.



Tools required:

<p>Multi-Purpose Crimper:</p> <ul style="list-style-type: none">- A: Stripper- B: Crimper	
<p>Stripper</p>	
<p>Heat Gun</p>	
<p>Soldering Iron</p>	

<p>Shrink tube</p>	
<p>Inline Connector</p>	
<p>Electrical Tape</p>	
<p>Solder</p>	

Parts Information:

PART NAME	PART IMAGE	ORDERING CONTACT INFORMATION
<p>TRK CONNECTOR KIT (Lighter Blue)</p>		<p>This kit was released to dealers in 2002. It is no longer available to order.</p>
<p>WRK CONNECTOR KIT</p>		<p>This kit was released to dealers in 2008. It is no longer available to order.</p>
<p>WRKII (Darker Blue)</p>		<p>This kit was released to dealers in 2013.</p> <p>To order WRKII kit contact Bosch at (866) 539-4248 and order item #G0KHN002.</p>
<p>Process for connectors not found in TRK, WRK, or WRKII kit</p>		<p>If an individual connector is needed, reference pages 6 - 8 of this TSB to determine if connector is available and order through MOBIS.</p>

Warranty Information:

Labor Cost	Use TT code (Actual Time) for warranty claim submission of the repair.
Part Cost	When the wiring repair connector (WRK II) is used for warranty repair, the parts cost is as follows: Parts Cost Reimbursement = (Qty. of Connectors Used) X ([Unit Price X Mark-up])

Harness Replacement Guidelines:

Replace the wiring harness only when the vehicle has one of the following conditions:

- The wiring harness is related to a seatbelt or restraint system.
- The vehicle is damaged by flood, fire, or rodents.
- The vehicle is involved in a heavy crash that requires major body rework.
- The wiring connector is not available in *Wiring Repair Connector Kit (WRK II)*.
- The wiring harness replacement is required for a campaign completion.

WIRE CONNECTOR KIT INFORMATION



TRK (2002)



WRK (2008)



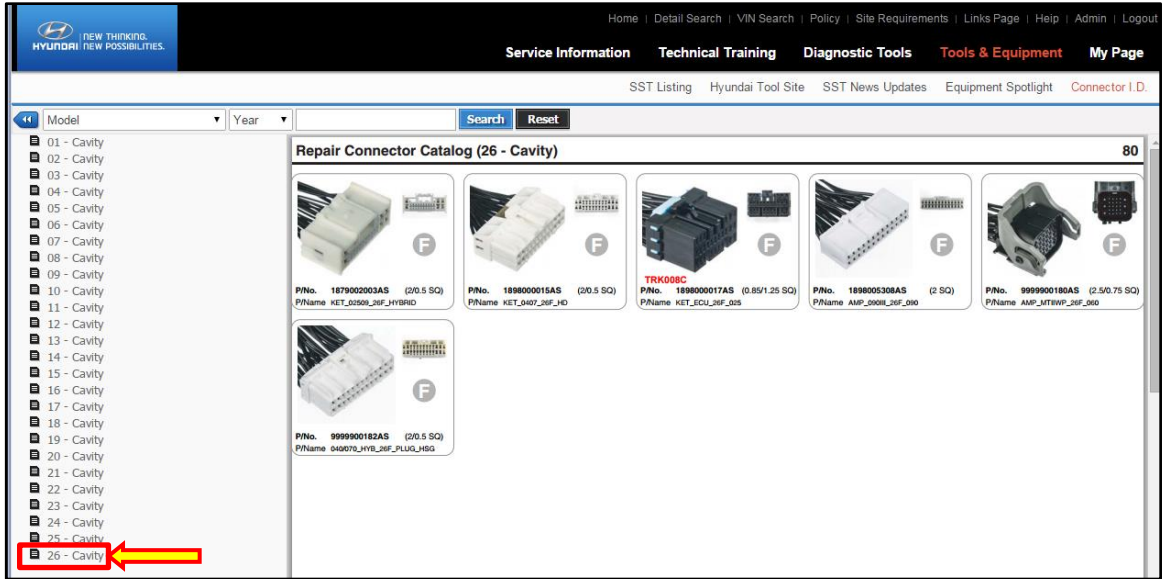
WRKII (2013)

WIRE CONNECTOR SEARCH INSTRUCTIONS

1. Go to www.hyundaitechinfo.com and Select **Connector I.D.**

The screenshot shows the Hyundai Motor America Service Information website. The navigation bar includes links for Home, Detail Search, VIN Search, Policy, Site Requirements, Links Page, Help, Admin, and Logout. The main menu features Service Information, Technical Training, Diagnostic Tools, Tools & Equipment, and My Page. A secondary menu lists categories like New Items, Shop, ETM, DTC, TSB, Fix It Right, Symptom, Replace, Component, Campaign, OBD-II, DCS, and OM. The main content area is titled 'HYUNDAI MOTOR AMERICA SERVICE INFORMATION' and contains several sections: Service News, DCS, Campaign, News, TSB, and TechNet. The 'Connector I.D.' link in the Quick Menu is highlighted with a red box and an arrow.

2. Select the number of cavity(slots).

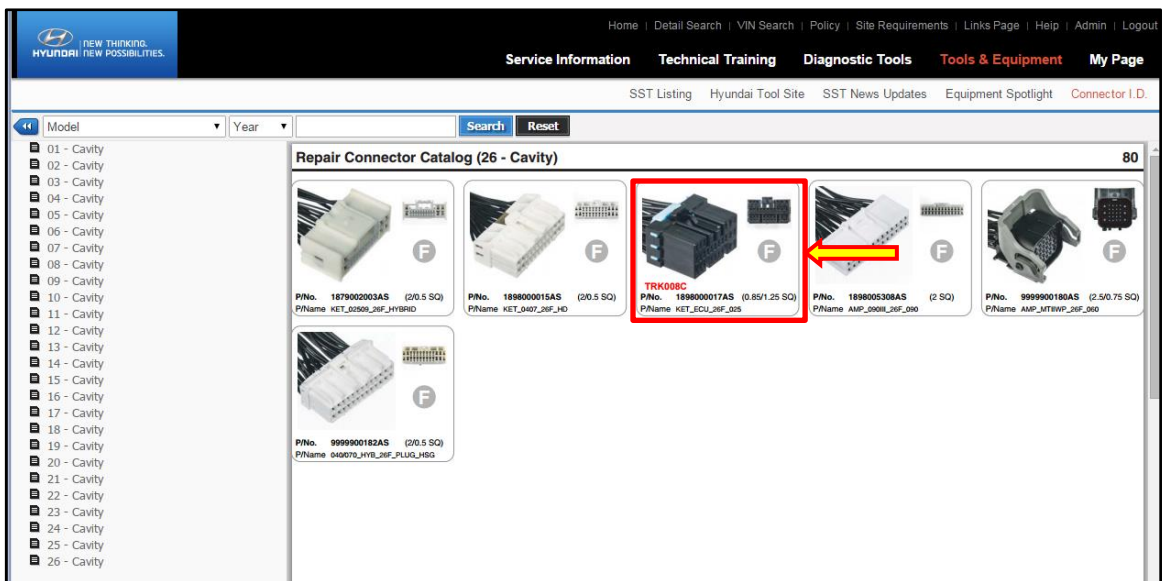


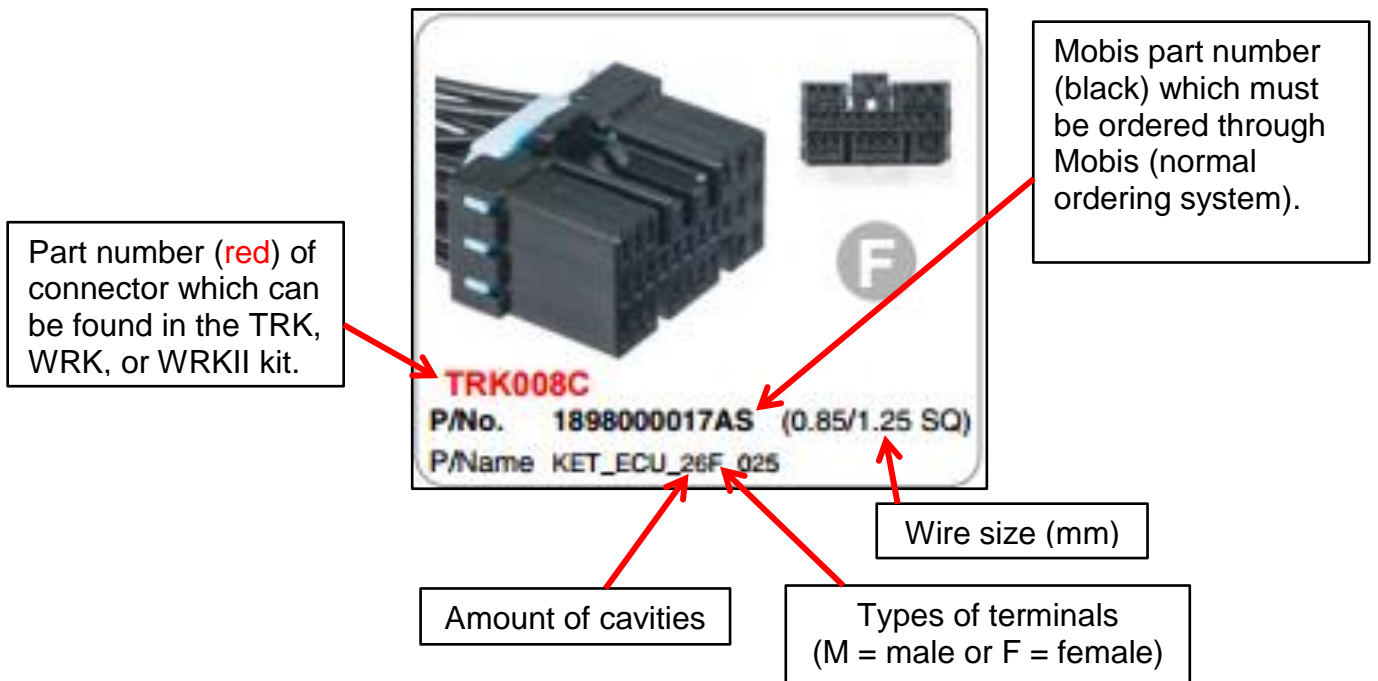
3. Select the connector which matches your search.

NOTICE

If a **red part number** is provided, then the connector can be found in the TRK, WRK, or WRKII wire connector kit.

If a red part number is not provided, then order the connector through Mobis using the provided part number in black.





NOTICE

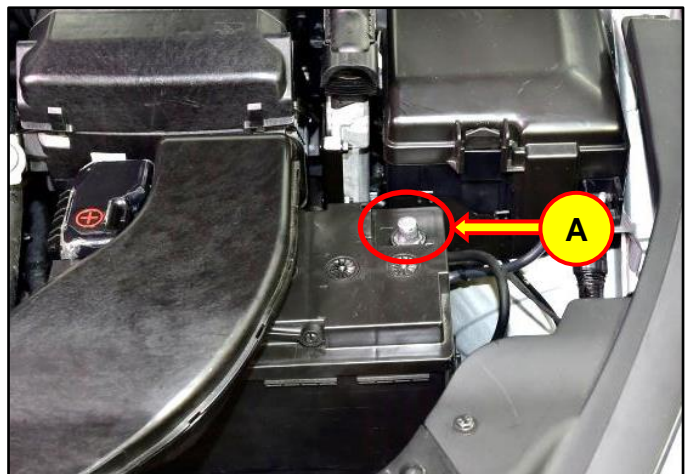
- The complete TRK and WRK connector kits are no longer available.
- To order a complete WRKII connector kit, contact Bosch (866) 539-4248.
- If an individual connector is needed, reference pages 6 - 8 of this TSB to determine if connector is available and order through MOBIS.

WIRE HARNESS CONNECTOR REPAIR PROCEDURE

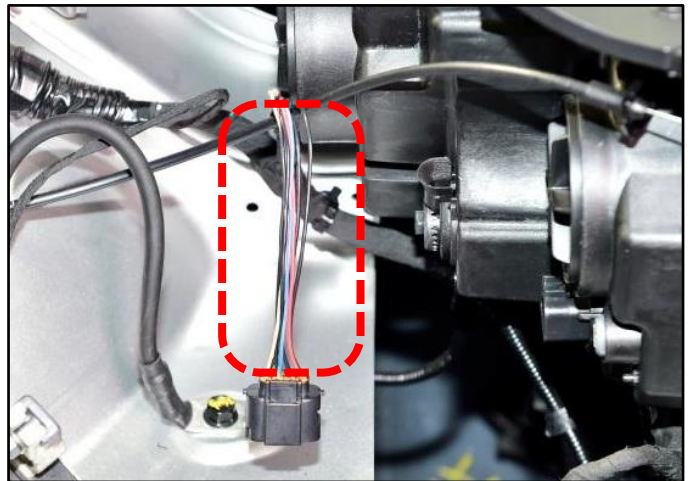
1. Disconnect the battery negative (-) terminal (A).

NOTICE

Record the customer's AM, FM and XM radio stations before disconnecting the terminal.



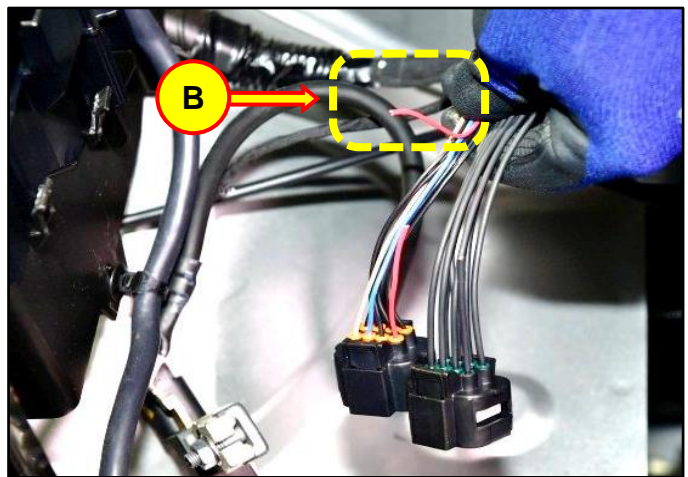
- Strip off the friction tape wrapped around the connector or wire to be repaired.



- Cut off at the appropriate spot (B) the wires to be repaired, starting with the No. 1 wire and completing the full repair procedure to the No. 1 wire before cutting the next wire to be repaired.

⚠ CAUTION

Perform the connector replacement only 1 wire at a time to avoid any wire confusion/mix up.

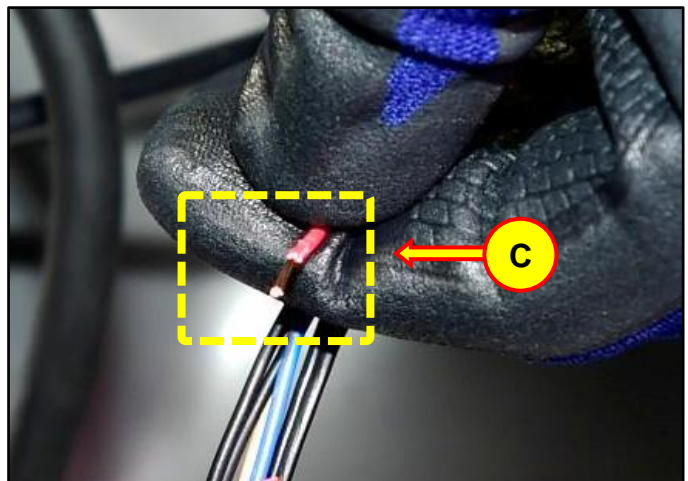


- Using a wire stripper, strip off about 10mm (C) of the vinyl coating of each end of wire.

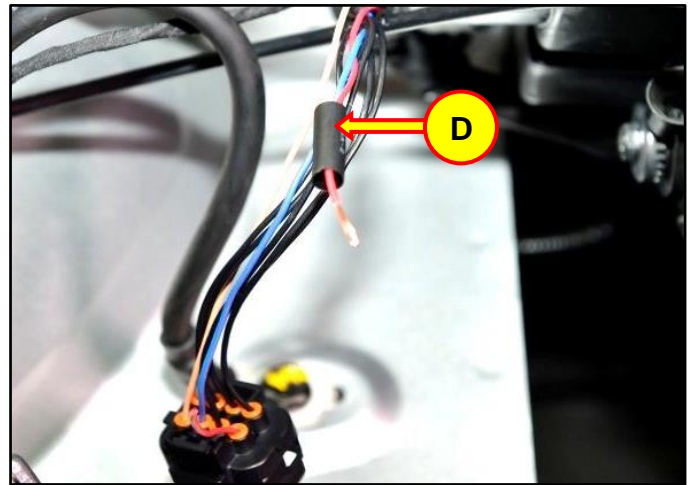
⚠ CAUTION

Make sure that the wire-stripping and gauge-crimping slots are properly matched.

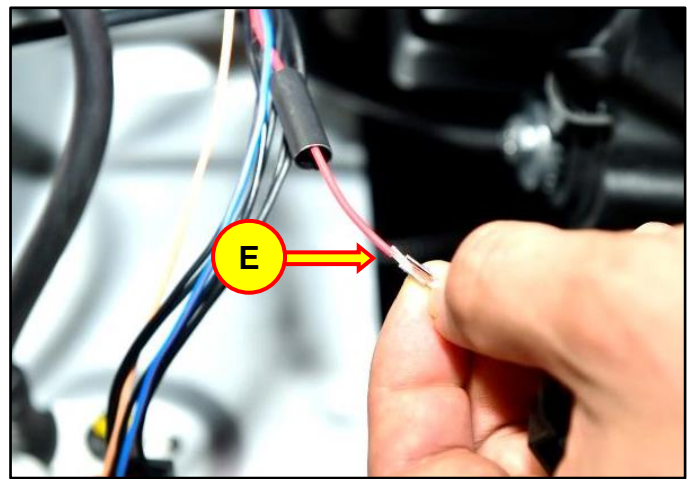
If the slots do not match, the wire may be damaged and may not fit into the connector.



5. Insert the shrink tube (D) into the wire of the connector to be repaired.



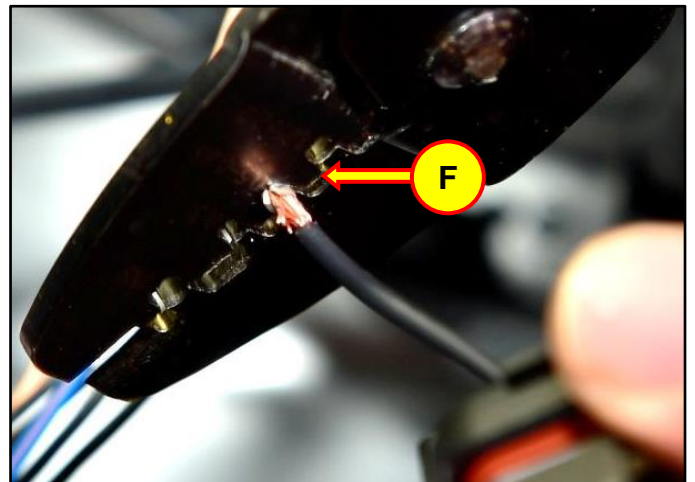
6. Using the inline connector (E), connect the wire from the vehicle side to the wire from the repair connector side.



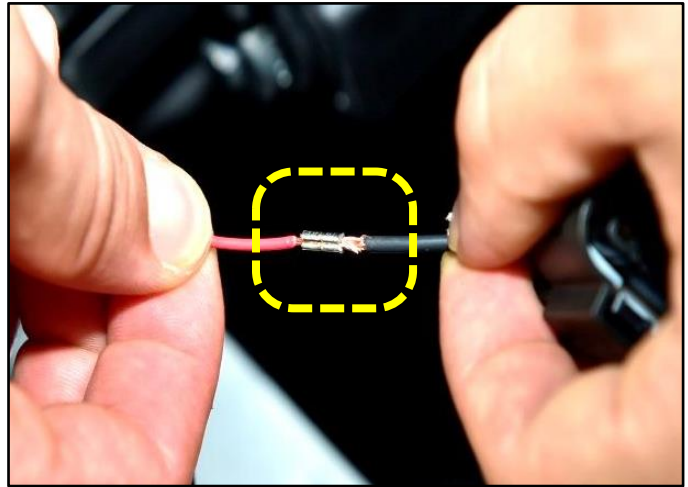
7. Crimp the inline connector (F) by using the multi-purpose crimper.

⚠ CAUTION

Choose the correct gauge-crimping slot for the repair; otherwise, it may cause damage to the wire.



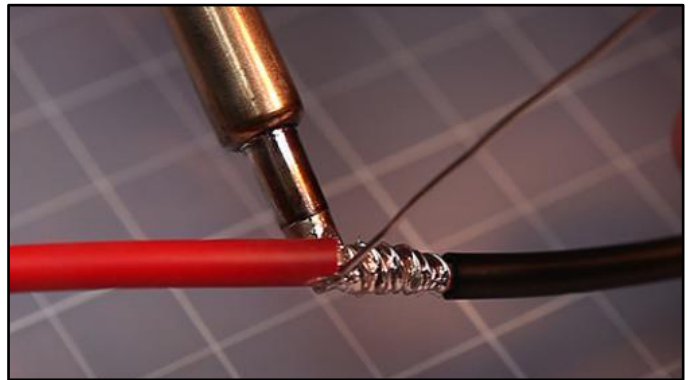
8. Gently pull both ends of the wires to check that the wires are tightly secured.



9. Solder the wire.

⚠ CAUTION

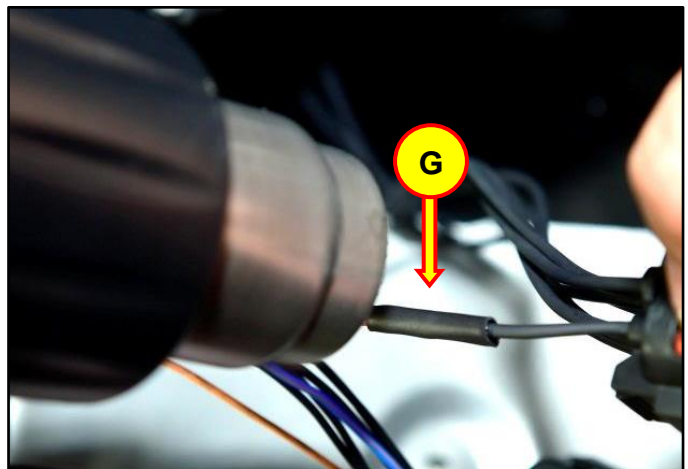
Use care when soldering to avoid heat damage to wiring, connector, surrounding components and trim of the vehicle.



10. Reposition the inserted shrink tube (G) centering over the middle of the pressed solder connector and shrink the tube by using a heat gun.

⚠ CAUTION

Fully cover the repaired area with the shrink tube.
The shrink tube should be securely wrapped around the soldered connector.



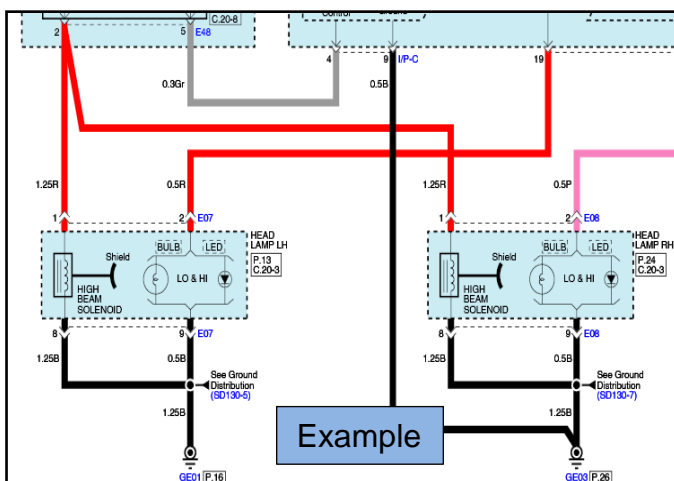
- Use the same procedures for the other wires completing one at a time. Be sure to stagger the repairs as shown to avoid enlarging the harness and creating insufficient connections.

CAUTION

Wrap electrical tape to indicate the unused wires.
Be careful not to strip off the vinyl coating off the end of the unused wires in the repair connector.



- Reconfirm that the wires are connected as specified in the appropriate electrical troubleshooting manual (ETM) circuit diagram.



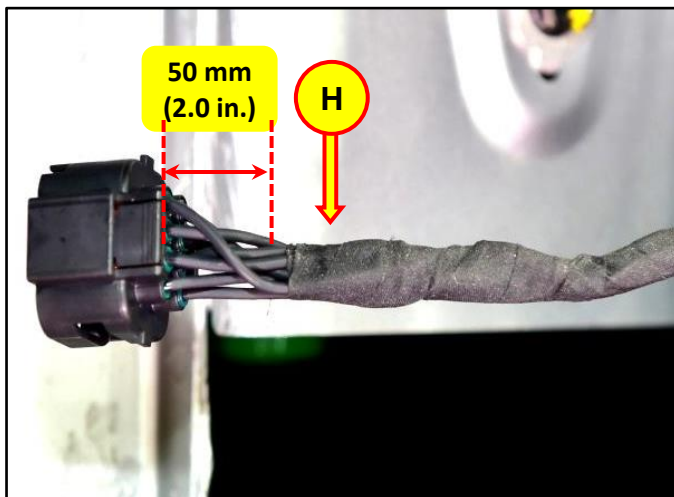
- Apply the electrical tape (H) to the entire bundle of wires. Leave a gap of about **50 mm (2.0 in.)** long from the end of the repaired connector.

NOTICE

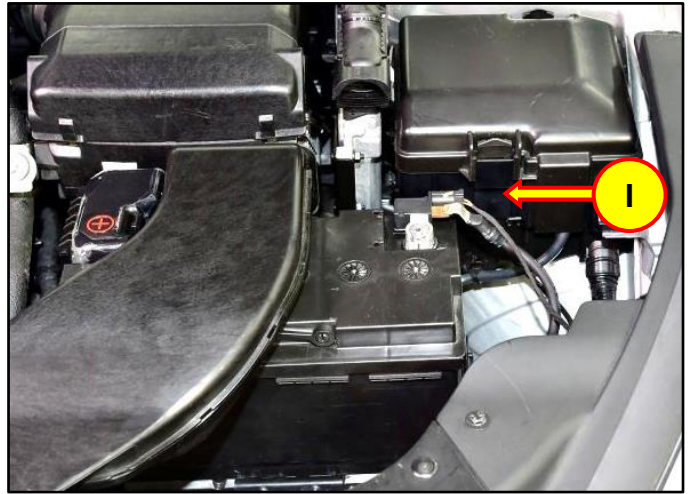
Before applying the tape, verify that each wire is connected to its proper location.

CAUTION

If the electrical tape is applied too closely to the end of the repair connector, the wires may become dislodged from the connector due to stress.



14. Connect the negative (-) battery terminal.



15. Wiggle test the repaired area to confirm integrity of the circuit. Check for normal operation of the electrical system related to the repaired connector.

16. Connect the GDS and verify if any incidental Diagnostic Codes (DTC) have been created by the repair.

Clear all the DTC (s) if the repair has been confirmed fixed.



17. If applicable, clear any DTCs in the Blue Link system per instructions of TSB 12-BE-005-2.

18. Program customer's radio stations and confirm all systems are operational.