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2002 CHEVROLET Celta - 5 doors OEM Service and Repair Workshop Manual

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YOUR CURRENT VEHICLE

Wire to Wire Repair - Engine Controls and Fuel

Wire to Wire Repair - Engine Controls and Fuel

Special Tools

- **J-38125-8** ***GMNA Splice Sleeve Crimping Tool***
- **EL-38125-10** ***Except GMNA Splice Sleeve Crimping Tool***
- **EL-38125-5A** ***Ultra Torch Special Tool***
- DuraSeal splice sleeves

For equivalent regional tools, refer to Folded-Over Wire Repair.

CAUTION

Danger

In order to reduce the risk of personal injury, loss of high voltage isolation to ground and higher system impedance, do not attempt to repair any HV wiring, connector, or terminal that is damaged. High voltage coaxial type cables are not repairable. Never attempt to repair a coaxial type cable. The entire cable/harness or component must be replaced. In order to maintain system integrity and personal safety, never attempt to repair any high voltage wiring, cables, or terminals. Performing this procedure on high voltage circuits may result in serious injury or death.

NOTE

Note

- If the wiring harness internal to the transmission is damaged, the wiring harness must be replaced. The use of splice sleeves in an attempt to repair the internal transmission wires, connectors, or terminals could result in performance issues.
- Do not splice wires in Door Harness Grommets.

19300089			
Blue 19300090	84976195	84976198	1.0 – 2.6(14-16)
Yellow 19300091	84976196	84976199	3.0 – 5.0(10-12)

NOTE

Note

- Refer to: Folded-Over Wire Repair when splicing 2 different size wires.
- Refer to the Table above for Proper tool usage information.
- This repair is only intended for the M6 Ground Stud.
- The Information in Table Below is for M6 Ground Ring Terminal Terminated lead Splicing. The kit includes the Splice Sleeves.
- If the Ground Stud and nut require repair Refer to: Ground Repair.

1. **NOTE**

   Note

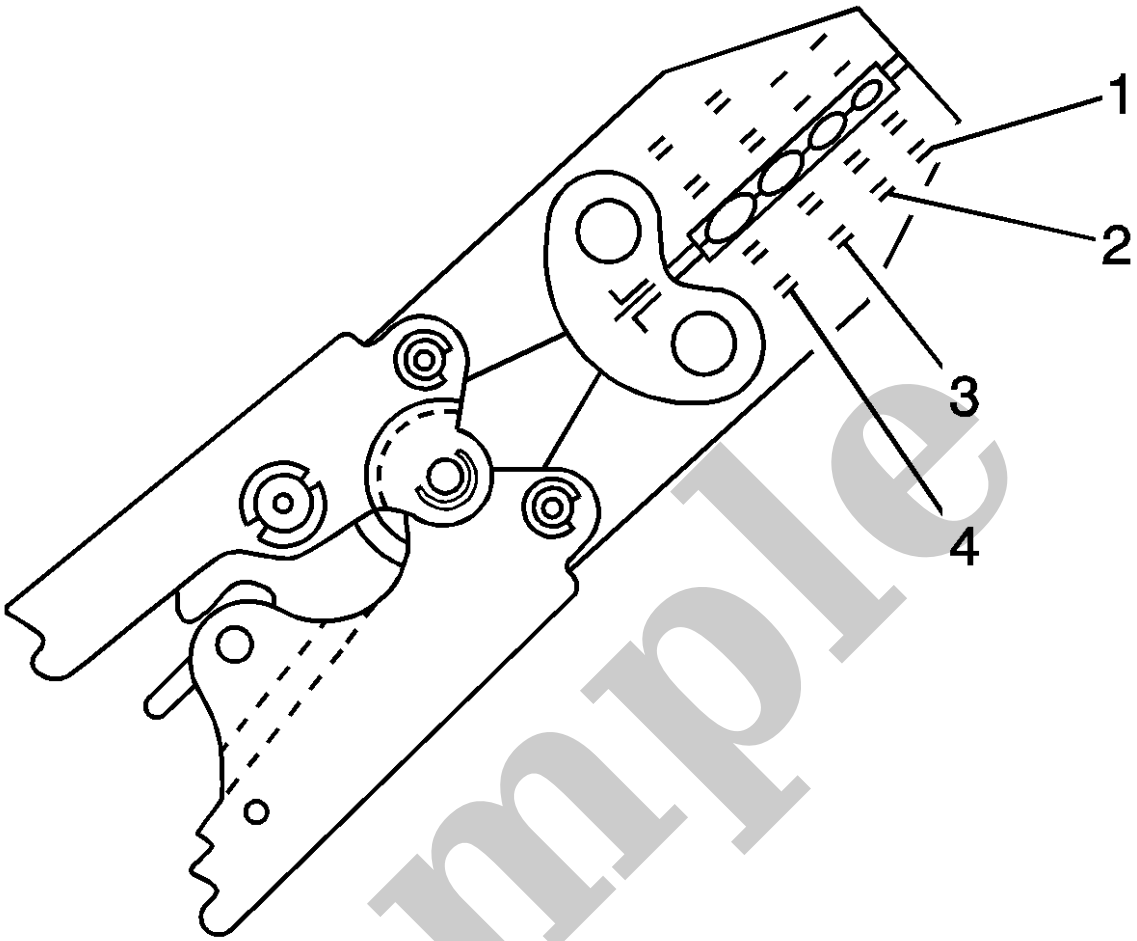
   You must perform the following procedures in the listed order. Repeat the procedure if any wire strands are damaged. You must obtain a clean strip with all of the wire strands intact.

   Open the harness by removing any tape:

   - Use a sewing seam ripper, available from sewing supply stores, in order to cut open the harness in order to avoid wire insulation damage.
   - Use the DuraSeal splice sleeves on all types of insulation except Tefzel and coaxial.
   - Do not use the crimp and DuraSeal splice sleeve to form a splice with more than 2 wires coming together.

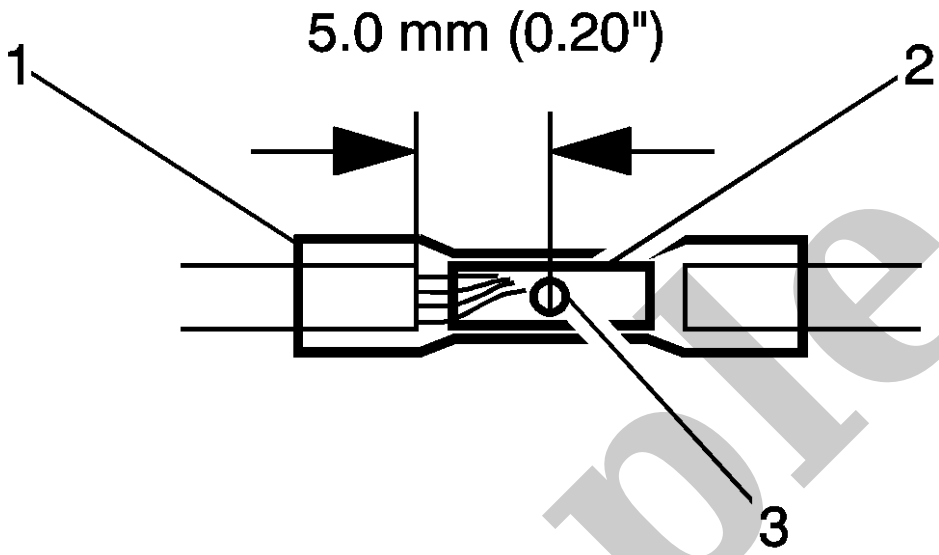
2. Cut as little wire off the harness as possible. You may need the extra length of wire in order to change the location of a splice.

   Adjust splice locations so that each splice is at least 40 mm (1.5 in) away from the other splices, harness branches, or connectors.



6.

Non GMNA Crimping Tool **EL-38125-10** ***Splice Sleeve Crimping Tool*** has four crimp nests. The largest crimp nest (4) is used for crimping 6.5 and 3.0 mm² (9 and 12 gauge) wires. The second largest crimp nest (3) is used for crimping 2.0 and 1.0 mm² (14 and 16 gauge) wires. The third largest crimp nest (2) is used for crimping 0.75 and 0.50 mm² (18 and 20 gauge) wires. The smallest crimp nest (1) is used for crimping 0.35 and 0.13 mm² (22 to 26 gauge) wires. The crimp nests are referenced in the table (farther above) under the crimp tool nest color.



9.

Place the DuraSeal splice sleeve in the nest. Ensure that the crimp falls midway between the end of the barrel and the stop. The sleeve has a stop (3) in the middle of the barrel (2) in order to prevent the wire (1) from going further. Close the hand crimper handles slightly in order to firmly hold the DuraSeal splice sleeve in the proper nest.