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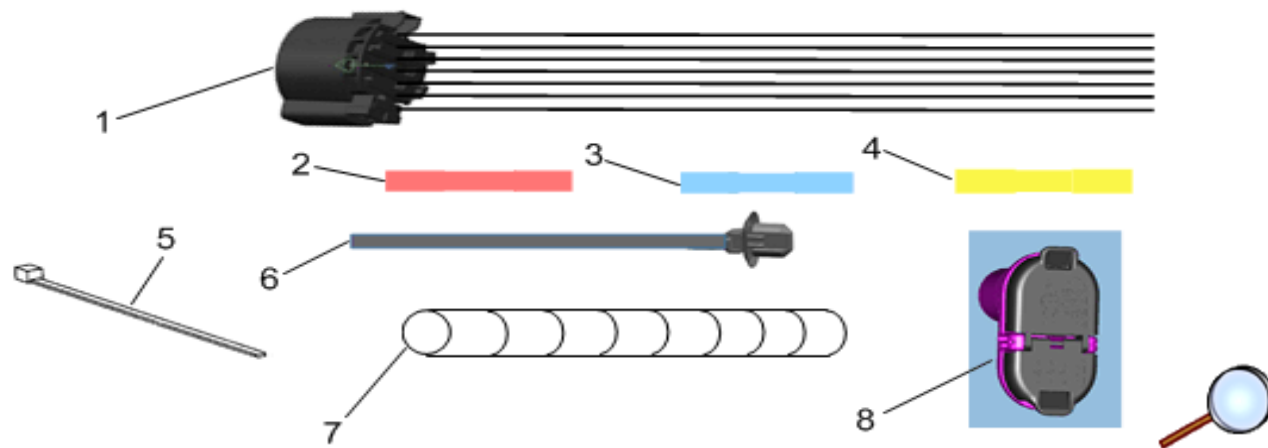
Trailer Wiring Harness Package Installation

Table 1: [Kit Contents](#)

Table 2: [Receptacle/Harness Pin Connector Description](#)

Installation Instructions Part Number

23455108



Kit Contents

Item	Description	Qty
1	Connector With Leads	1
2	Splice Barrels - RED	3
3	Splice Barrels - BLUE	1
4	Splice Barrels - YELLOW	3
5	Tie Strap - 11"	3
6	Tie Strap With Clip	1

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Item	Description	Qty
7	Conduit - 19mm (ID) x 700mm	1
8	Receptacle (7 pin + 4 pin)	1

Tools Required

Wire Strippers

Wire/Terminal Crimper

Scissors/Cutter

Hot Air Gun

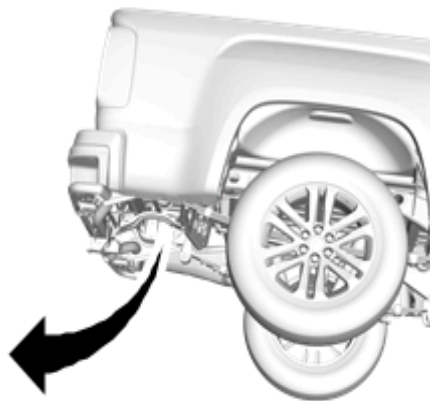
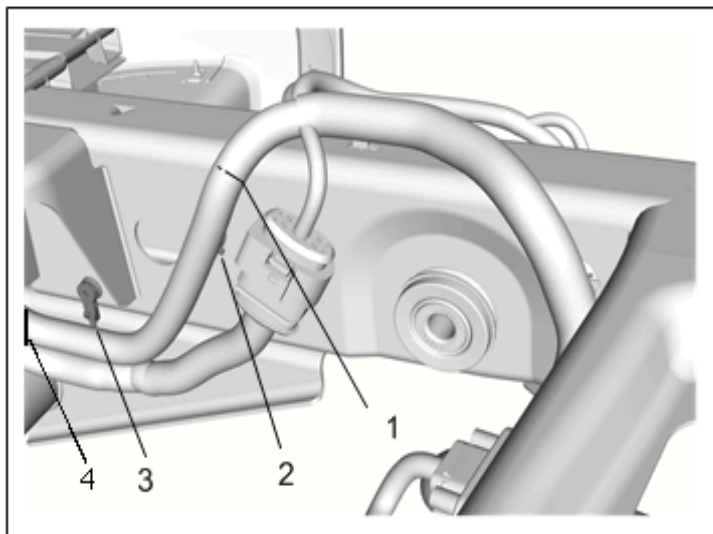
Tape Measure

Material Required

Harness Electrical Tape - General Purpose

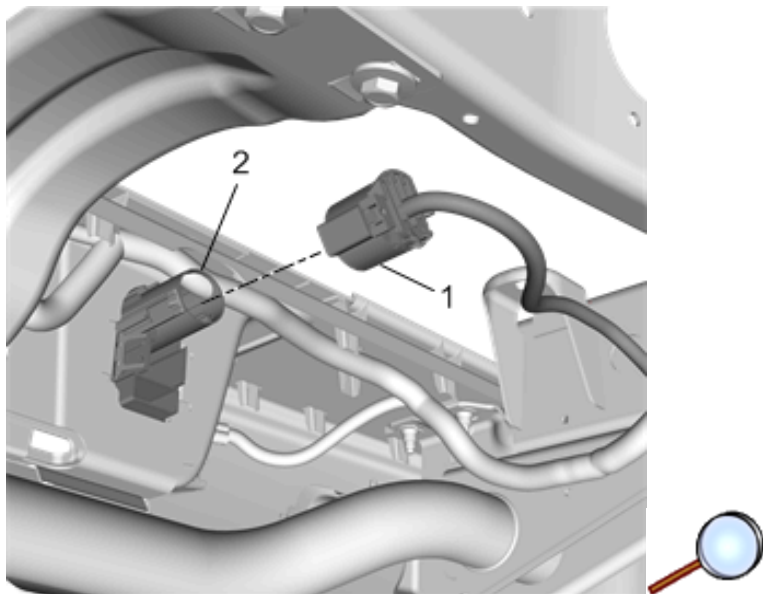
Procedure

1. Remove the cap on the left side of rear bumper (1) where trailer connector will be installed.
2. Snap in trailer receptacle/connector (2), with 7-pin connector on top.



3. Referring to graphic above, working on the chassis harness stub with blunt cuts at (4).
 - 3.1. Remove and discard clips (2), (3).
 - 3.2. Cut the conduit at point (1) being careful not to damage wires. Discard conduit.
4. Cut all seven chassis harness wires at the point the shrink tubing starts.
5. Cut the Trailer Wiring harness wires and Chassis harness blunt cut wires as shown in Splice Trailer Wiring Table below, staggering the cuts. For chassis harness wires, the dimensions are measured after cutting off the shrink tubing.
6. Add splice barrels to trailer harness.

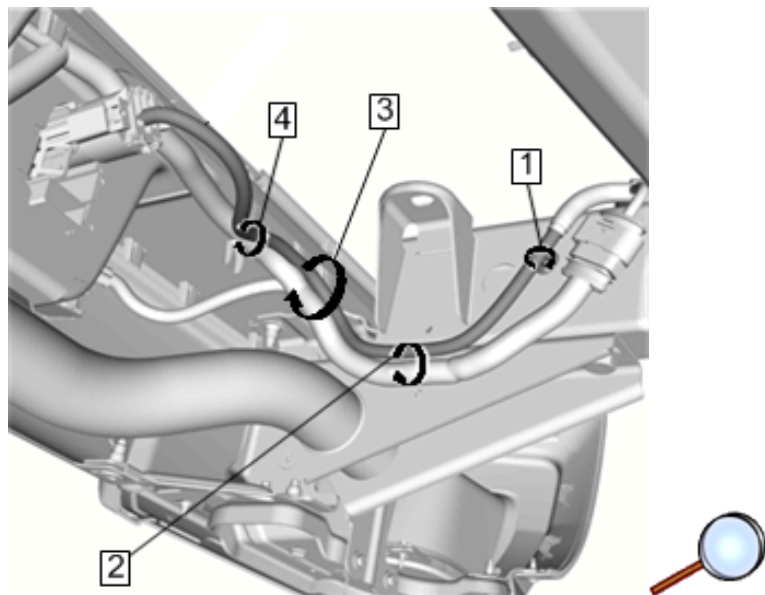
Note: Do not shrink barrels until installed on chassis harness.



7. Referring to graphic above, plug 7-pin connector (1) with wires into back of receptacle (2) on rear bumper. Push in the CPA.
8. Strip wire ends on chassis harness (after reading note below for BLUE wire) and crimp wires together using splice barrels. Use hot air gun to shrink/seal both ends of barrels. Table calls out splice barrel colors to use.

Note: For the BLUE wire in Chassis Harness, strip enough insulation to allow folding over the copper strands to enable good fit in Yellow splice barrel.

9. Tape over the wires for 50mm behind the 7-pin connector, if not already done, to prevent conduit chafe.
10. Put conduit from kit over the wiring, making sure to butt up against the existing conduit where cut off.
11. Tape end of added conduit to the original conduit at the interface to ensure a "seal".
12. Tape over the entire length of added conduit with overlap for 100% coverage.



13. Referring to graphic above.

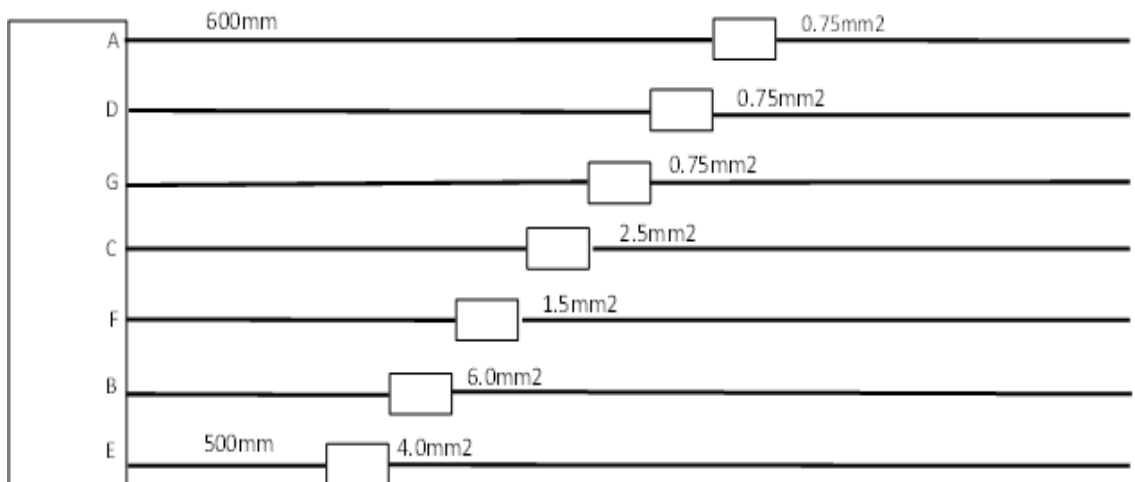
13.1. Use the kit tie strap with oblong fir tree attachment (1) (item 6 in kit) to secure harness where clip was removed.

13.2. In the area where other clip was, use the kit general purpose tie strap (2) (item 5 in kit) to strap the new bundle to the rear bumper bundle as shown.

13.3. Use the kit general purpose tie straps (3), (4) (item 5 in kit) to strap the new bundle to the rear bumper bundle as shown. It is better to have more of the excess length between points (3) and (4), rather than behind connector.

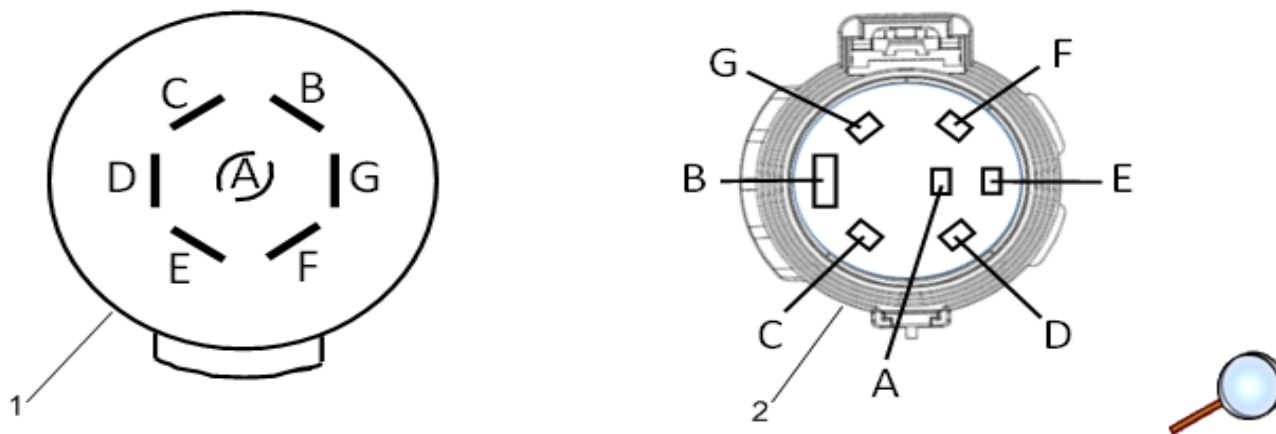
14. Verify correct voltages on terminals, either at harness end, or in receptacle after plugging connector in. See connector diagram and chart at end of instructions.

[Splice Trailer Wiring](#)



7-Pin Trailer Connector Cavity	Trailer Wiring From Kit	Splice Barrel Color	Chassis Harness Blunt Cuts
A	GRAY- 600mm from back of connector	RED	GRAY -0.75mm ² Cut 100mm from end
D	GREEN - 585mm from back of connector	RED	GREEN - 0.75mm ² Cut 85mm from end
G	YELLOW - 570mm from back of connector	RED	YELLOW - 0.75mm ² Cut 70mm from end
C	BLUE - 555mm from back of connector	YELLOW	BLUE - 2.5mm ² Cut 55mm from end
F	BROWN - 540mm from back of connector	BLUE	BROWN - 1.5mm ² Cut 40mm from end
B	BLACK - 520mm from back of connector	YELLOW	BLACK - 6.0mm ² Cut 20mm from end

7-Pin Trailer Connector Cavity	Trailer Wiring From Kit	Splice Barrel Color	Chassis Harness Blunt Cuts
E	ORANGE – 500mm from back of connector	YELLOW	No Cut – ORANGE – 4.0mm ²



Receptacle with door flipped open (1).

Device/mating end of harness connector (2).

Receptacle/Harness Pin Connector Description

Pin	Description
B	Ground. Connect the meter ground here.
A	Backup Lamps. Should have 12V with Engine On and transmission in Reverse (HAVE BRAKES APPLIED)
C	Electric Brakes. Should have no voltage if no Trailer Brake controller added under the I/P.
D	Right Stop/Turn. Should have pulsing 12V with Ignition on and Right Turn signal activated.
E	Battery. Should have 12V, even with Ignition OFF

Pin	Description
F	Tail Lamps. Should have 12V with Parklamps or Headlamps on.
G	Left Stop/Turn. Should have pulsing 12V with Ignition on and Left Turn signal activated.