INFINITYBOX, LLC
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Infinitybox Splice Saver Kit Instructions

The Infinitybox Splice Saver Kit gives you an easy way to connect multiple accessories to a single POWERCELL output. Examples include powering your ECU, gauge power, stereo power and A/C power from a single ignition output. Other examples include lighting, locks and stereo power. You can power 5 separate wires from a single input wire. The internal buss bar can be split to create two separate circuits, each with a single input and two outputs. We also include 3 cavity plugs to seal any unused outputs.

The Splice Saver uses the same sealed 280 Metripack terminals and cable seals that are used in the POWERCELL and inMOTION output harnesses. The kit includes all the components needed to build a sealed junction point for your wiring harness. It also includes a mounting clip for a clean install in your harness.

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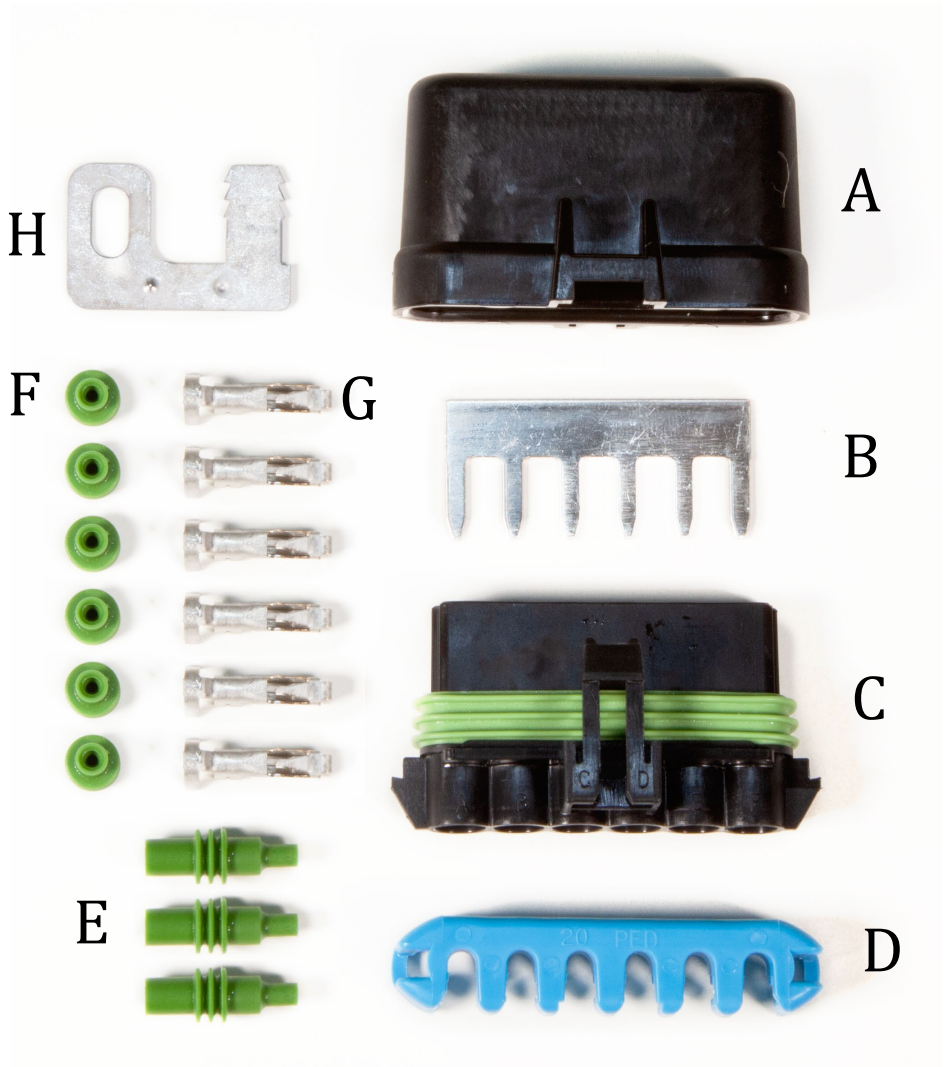
INCLUDED IN THE KIT.

A: (1) SPLICE SAVER SEALED COVER
B: (1) 6-POSITION BUSS BAR
C: (1) 6-POSITION SPLICE SAVER CONNECTOR
D: (1) 6-POSITION TERMINAL POSITION ASSURANCE (TPA) CLIP
E: (3) 280 METRIPACK CAVITY PLUGS
F: (6) 280 METRIPACK CABLE SEALS
G: (6) 280 METRIPACK TERMINALS
H: (1) MOUNTING CLIP



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Installation Options

The Splice Saver Kit can be used to power 5 separate wires from a single POWERCELL output. One if the wires going to the Splice Saver is the power wire from the POWERCELL. The remaining 5 wires will go to your powered accessories. Figure 1 shows using a single POWERCELL output wire to power 5 accessories. The arrows indicate direction of current flow.

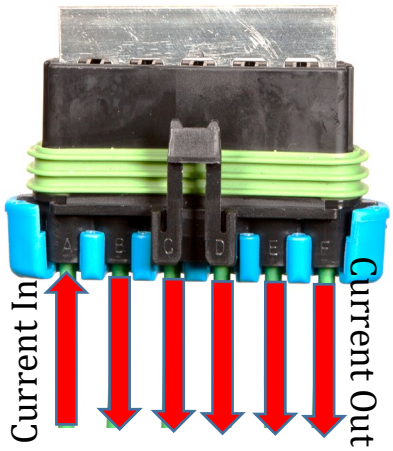

Figure 1. Splice Saver set up for one input and 5 outputs.

You can also split the Splice Saver buss bar into two pieces. This lets you create two different splices in one Splice Saver Kit. You get two separate circuits. Each would have one input and two output wires. Figure 2 shows options for this.

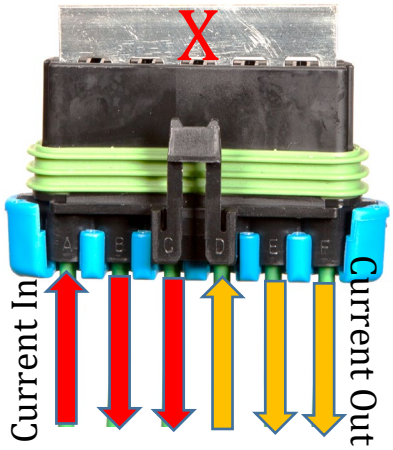

Figure 2. Splitting the Splice Saver buss bar to get two separate circuits.

Installation Steps

Step 1: Slide cable seals on to ends of the wires.

Slide green cable seals over ends of the wires that you are going to insert into the Splice Saver as shown in Figure 3. Leave about ¼" of insulation exposed at the end.

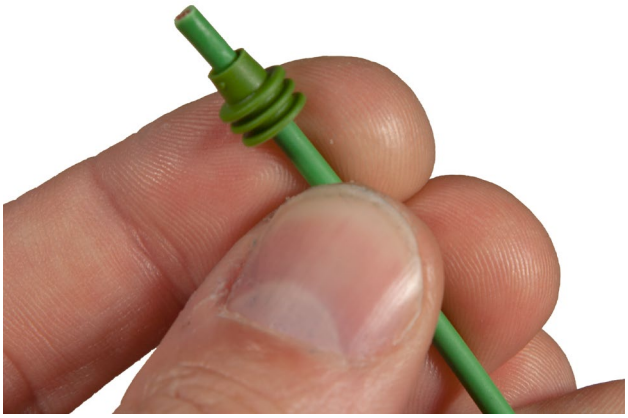

Figure 3. Cable seal inserted on the end of the wire.

Step 2: Strip insulation off ends of wires.

Use a wire stripper to remove about ¼" of the insulation from the ends of the wire as shown in Figure 4.

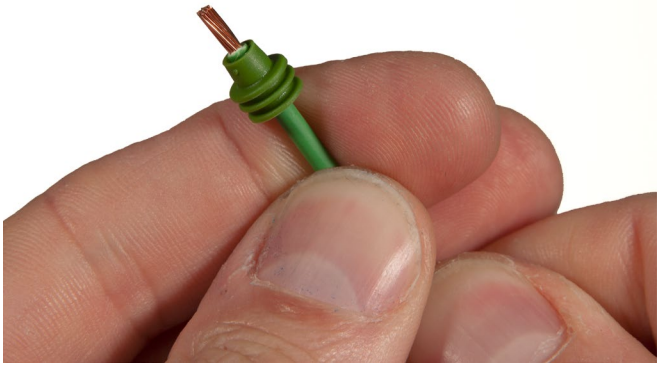

Figure 4. Insulation stripped from end of wire.

Step 3: Use crimp tool to crimp terminal to wire.

You must crimp both the conductor crimp and the cable seal crimps properly. Use a quality crimp tool as shown in Figure 5. Contact Infinitybox technical support if you have questions about the correct crimp tools for these terminals. Figure 6 shows what the finished crimp should look like.

Figure 5. Using a crimp tool to properly connect the terminal to the wire.

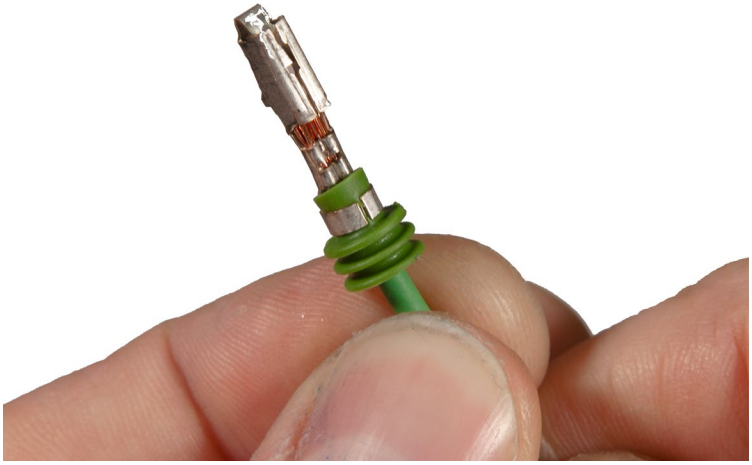

Figure 6. Proper Crimp for Splice Saver Terminal.

Step 4: Install wires into Splice Saver connector.

The Splice Saver terminals have a metal locking tab that keeps the terminal secured inside the connector. The terminals must be inserted into the corrector correctly. The front side of the connector has notches that indicate the direction for the lock tab. Figure 7 shows these notches.

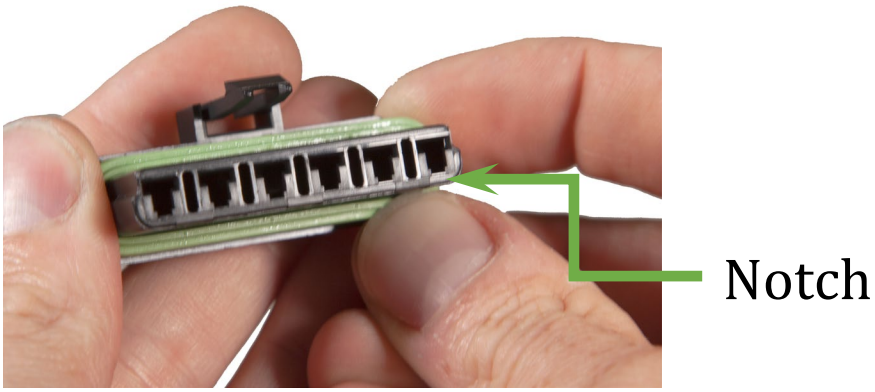

Figure 7. Notches on the front side of the Splice Saver connector.

The locking tab on the Splice Saver terminal corresponds with the notch on the connector. Insert the wire with the terminal and cable seal into the round cavities on the connector as shown in Figure 8. Push the terminal into the connector until you hear a click. If you have any unused cavities in the splice saver, fill them with the Cavity Plugs included in your kit. The Splice Saver will not be sealed unless every connector cavity has a wire or plug in it.

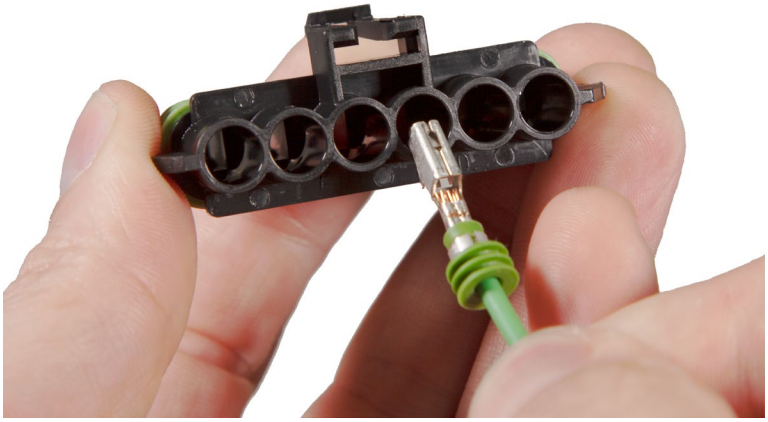

Figure 8. Inserting the wires with terminals and cable seals into the Splice Saver connector.

Step 5: Install TPA Clip onto Splice Saver Connector.

Once you have the wires and any Cavity Plugs inserted into the connector, you need to install the Terminal Position Assurance (TPA) clip onto the connector. This is a secondary locking feature that keeps the terminals and wires secure in the Splice Saver connector. Position the TPA over the wires on the connector and push up until it locks on the black plastic tabs on the connector. Figure 9 shows how to properly orient the TPA on the Splice Saver connector.

Figure 9. Installing the TPA on the Splice Saver Connector.

Step 6: Insert the Buss Bar into the Splice Saver Connector.

Insert the buss bar into the terminals as shown in Figure 10. The male blades of the buss bar should plug into the openings in the terminals. If you have split the buss bar to create two circuits, install both into the connector.

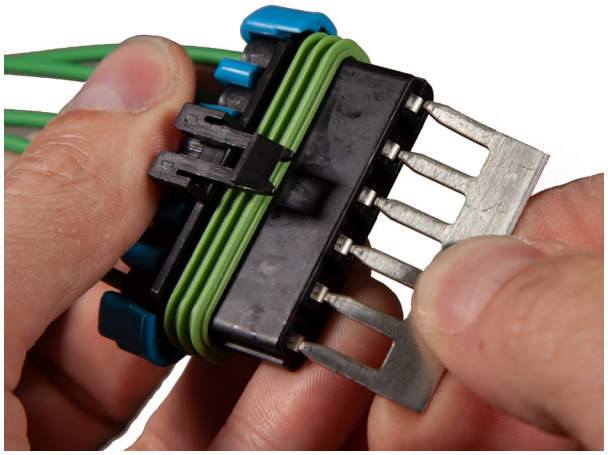

Figure 10. Inserting Buss Bar into Splice Saver Connector.

Step 7: Install Cover on Splice Saver Connector.

Install the Splice Saver cover over the buss bar to seal the connector as shown in Figure 11. The locking tab on the connector inserts into the catch on the cover. Push the cover on until you hear the locking tab click into place.

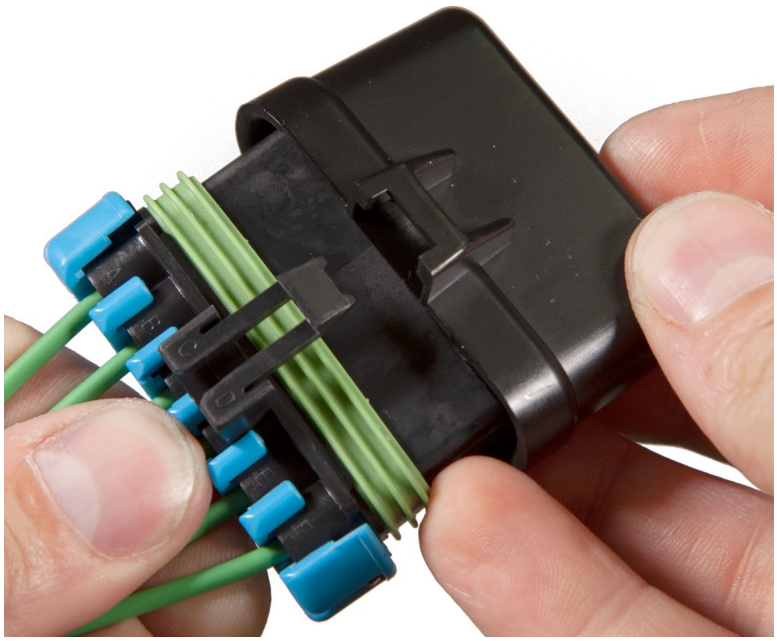

Figure 11. Installing the Cover on the Splice Saver Connector.

Contact Information

The INFINITYBOX™ Intelligent Multiplex System is a product of

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