



STEALTHTM
HITCHES

HITCH INSTALLATION INSTRUCTIONS

MAKE: MINI COOPER	MODEL/TRIM: COUNTRYMAN	PACKAGE: TOW
YEARS: 2017— Present	(F60 Chassis)	INSTALLATION TIME: 3 HOURS



WEIGHT CAPACITY		DO NOT EXCEED VEHICLE MANUFACTURE'S RECOMMENDATIONS
TRAILER 2000 LBS.		
TONGUE 200 LBS.		

	NO WELDING, DRILLING OR VISIBLE TRIMMING
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YES YES NO	UNDER VEHICLE TRIMMING HEAT SHIELD GRAVEL GUARD TRIMMING FASCIA
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PARTS SUPPLIED:			TOOLS REQUIRED:		
 Latching Mechanism	 (2) Bolts 1/2" 13" x 4"	 (2) 1/2" Nylock Nuts	 3/4" Open End Wrench	 Socket : 8mm 10mm 18mm Deep Well 3/4"	 Ratchet Torque Wrench
 (16) M6 Plastic Rivets	 (2) Mounting Base 1x1	 (2) 6" Zip Ties	 Socket Extension	 Flashlight	 Safety Glasses Plastic Pry Tools
 Ball Mount	 Ball	 Stealth 4 Way Wiring Kit	 Needle-nose Pliers	 T25 & T30 Torx	 Tin Snips
 Rack Receiver (Optional)			 File	 Dremel Tool	 Side Cutter
			 Multimeter	 Pliers	 Drill 3/8 Drill Bit
		U7S 4WAY LONG	 Stripper/ Crimping Tool	 Silicone	

1. Open vehicle rear cargo area and remove left and right side panels for access to rear of the tail lights.



Needle-nose

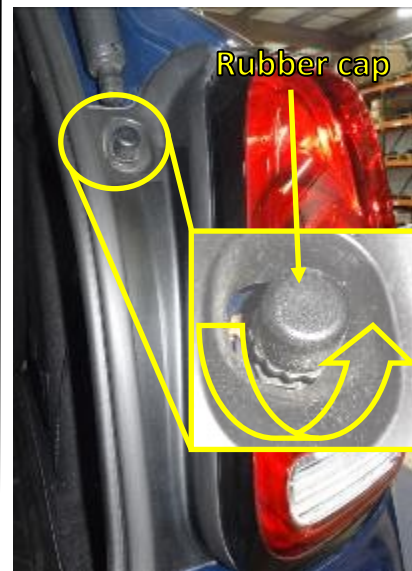
Pliers



Plastic Pry Tool



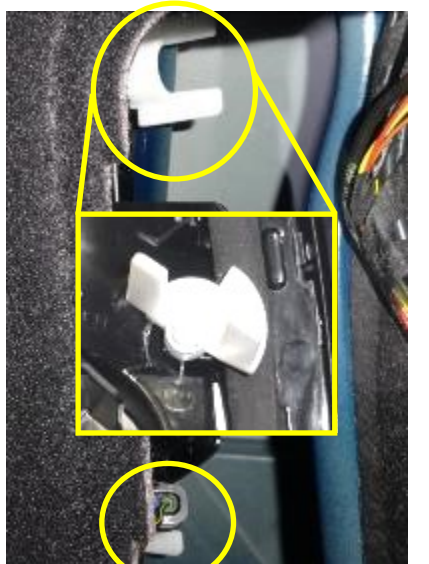
2. Remove rubber cap on hatch stop, use a needle-nose pliers to turn hatch stop counter clock wise to remove.
3. Remove both tail light covers. Use a plastic pry tool to pry plastic cover inward to remove.



10mm Socket



4. Remove (2) nuts from tail light, with socket.
5. Turn (2) plastic turn knobs, inside the cargo access panels behind the taillights.



6. Remove the rear taillights by sliding taillights rearward. Squeeze the release clip to unclip the plug then pull outwards to remove tail light wiring.



90 Degree Pick



Plastic Pry Tool

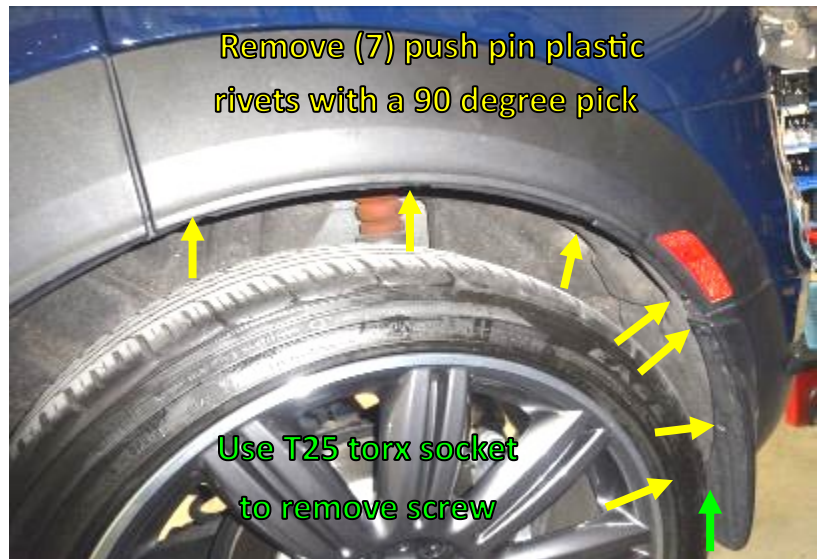


T25 Torx



7. Remove (7) push pin plastic rivets located inside rear wheel wells (that secure the wheel well trim and mud flap to the vehicle.) With a 90 degree pick push center pin out of the rivets. Use a plastic pry tool to pry plastic rivets out.

8. Use a torx socket to remove (1) screw from the mud flap on the bottom of the fascia.





Plastic Pry Tool


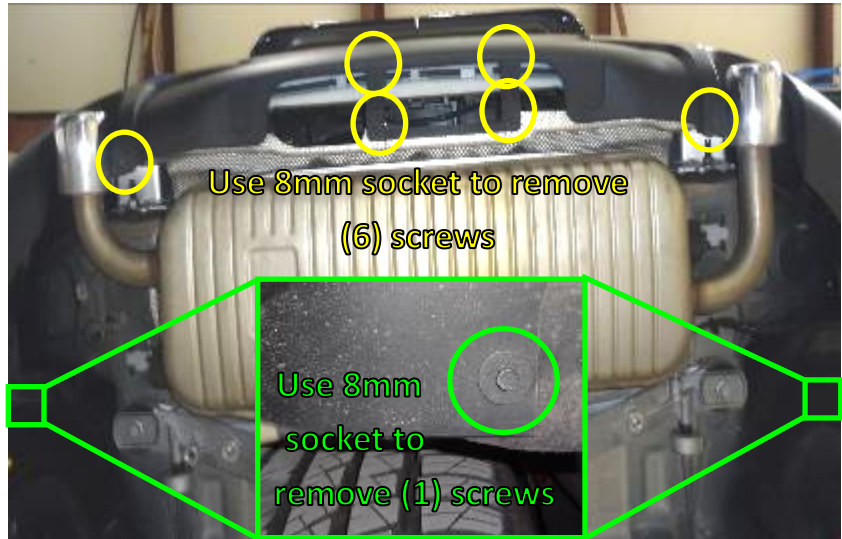




9. Open rear door, start from the front of wheel well. Grasp the rear wheel well trim piece and pull outward (away from the vehicle) continue around toward the rear to all release clips are release.

(Limit bending to prevent distorting the shape of the trim.)



<p>T30 Torx</p> 	<p>10. Unplug the light on the rear wheel well trim piece. Squeeze plug clip then pull outwards.</p> <p>11. Use a T30 torx socket to remove (1) screw securing the fascia.</p>	
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<p>8mm Socket</p> 	<p>12. From underneath the vehicle, use a socket to remove (6) screws from the bottom edge of the fascia.</p> <p>13. Remove (1) screws per side from the bottom edge of the fascia behind the wheel.</p>	
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<p>Plastic Pry Tool</p> 	<p>14. Behind the rear wheel well, put outward pressure on the fascia. With a plastic pry tool, push down on the clips, continue applying outward and rearward pressure until all clips are released.</p> <p>15. With a partner, slide the fascia rearward, keep the fascia close to the vehicle and unplug (4) PDC sensor plug, before removing fascia completely.</p>	
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PLACE THE FASCIA ON A PAD OR BLANKET TO PREVENT DAMAGE OR SCRATCHES.

18mm Deep Well Socket



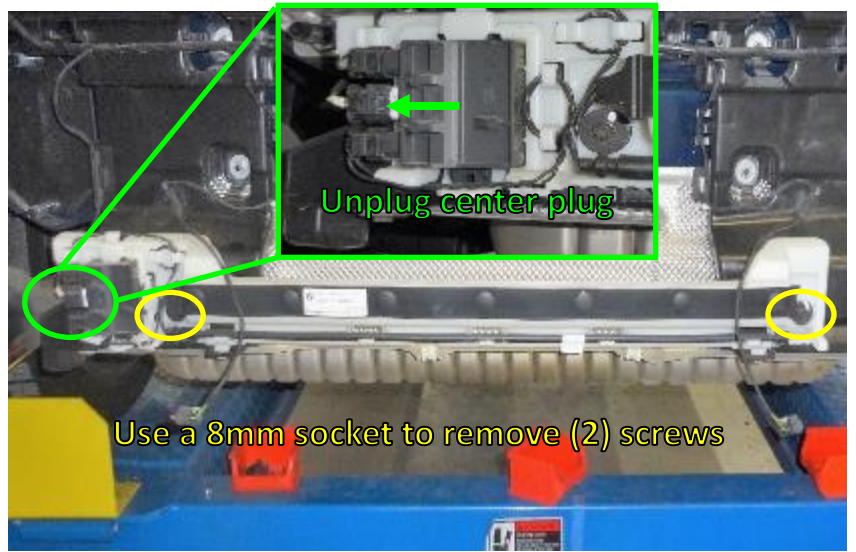
16. Remove (4) nuts from factory reinforcement beam and remove factory reinforcement beam. Save (4) nuts for installation.



8mm Socket



17. Remove (2) screws from the hands-free trunk release cable holder . Unplug center connector to the hands-free trunk release cable holder, remove holder.



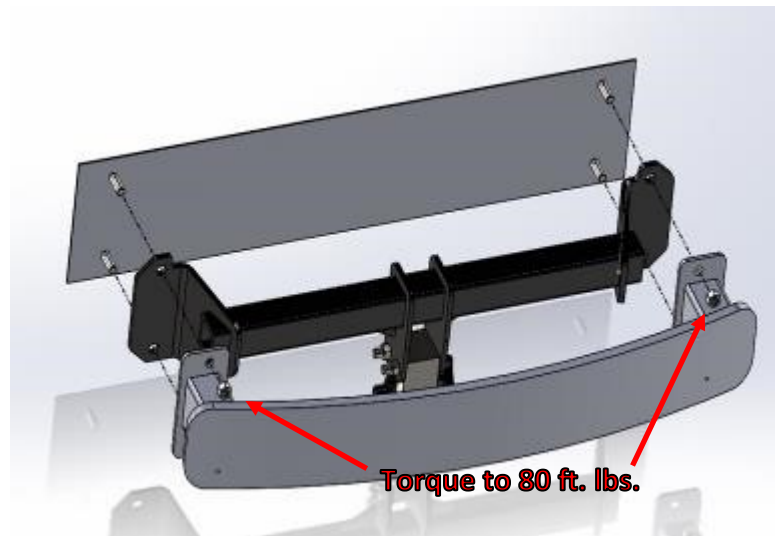
18mm Deep Well Socket



Torque Wrench



18. Place the hitch beam on the factory studs and install the factory reinforcement beam on top, to “sandwich” the hitch. Use the (4) nuts saved from the factory reinforcement beam. Torque to 80 ft. lbs.



3/4" Socket



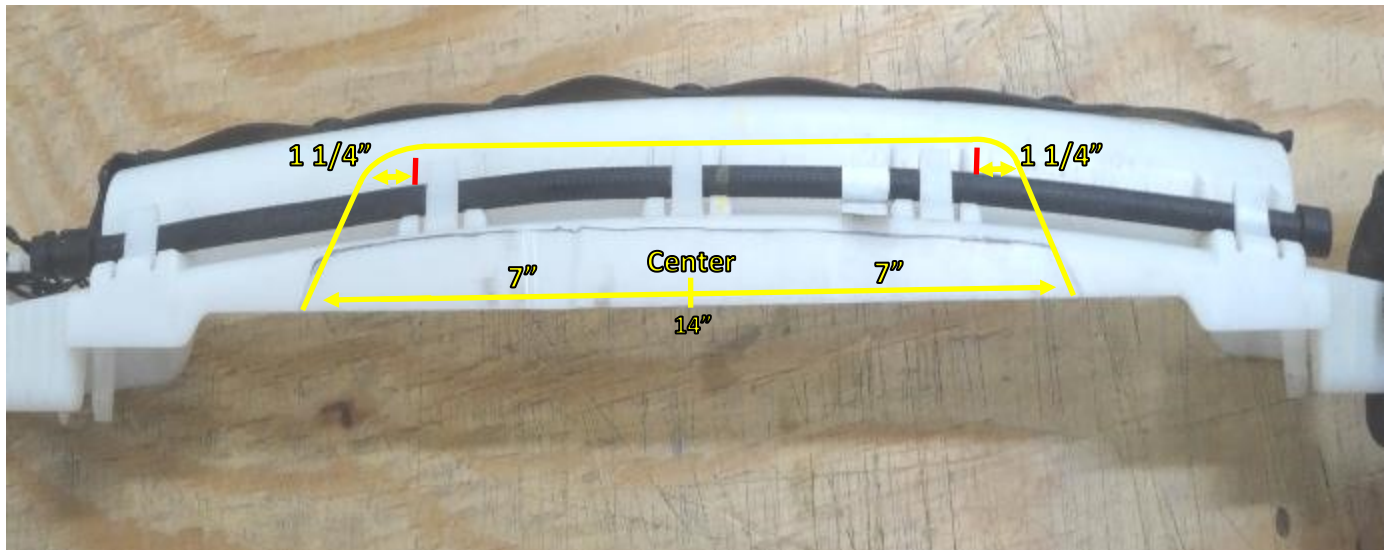
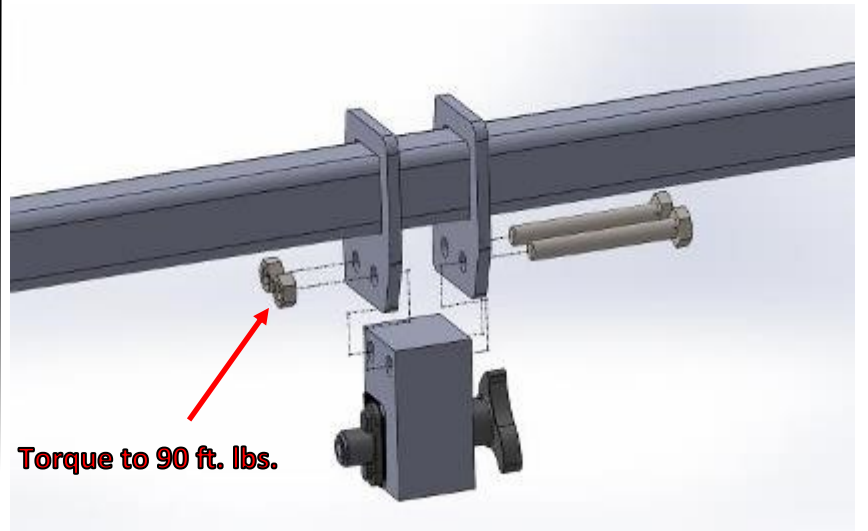
3/4" Open End Wrench



Torque Wrench



19. Assemble the latching mechanism. Use a torque wrench and a open end 3/4" wrench to tighten 1/2" bolts to 90 ft. lbs.



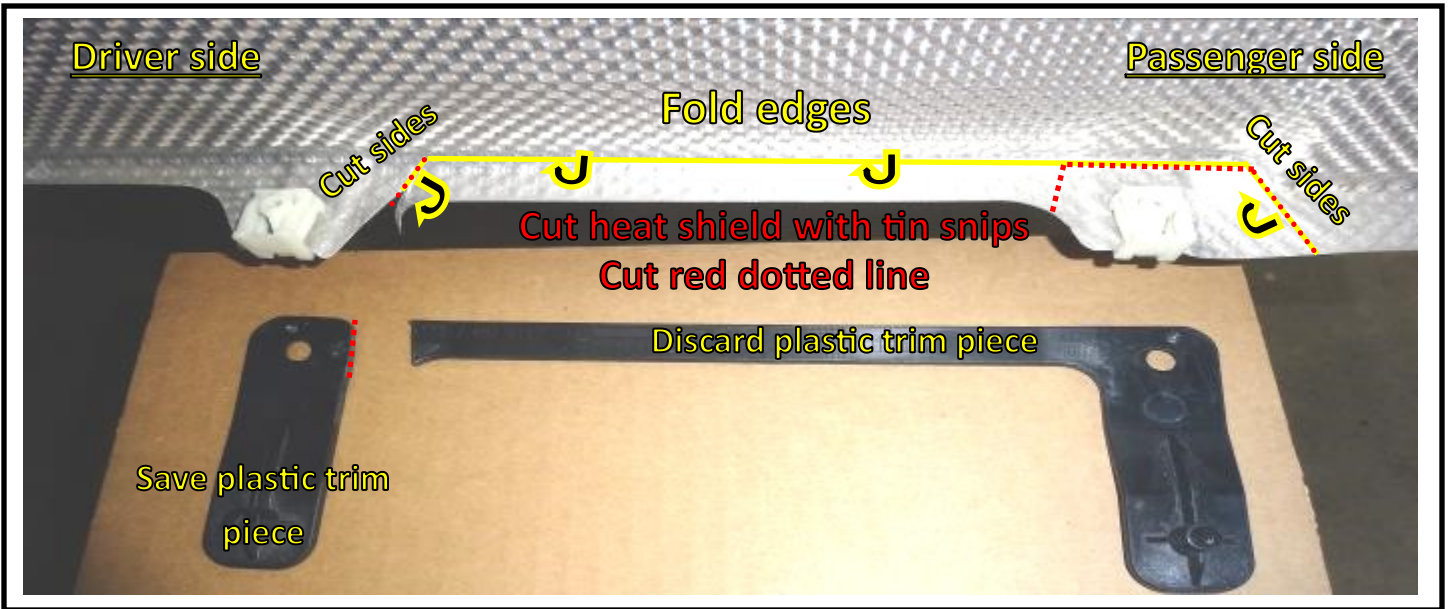
Dremel Tool









File









20. Before cutting hands-free trunk release cable holder, remove hands-free trunk release cable. Trim the hands-free trunk release cable holder (as shown), with Dremel tool. Use a file to smooth out the cut.

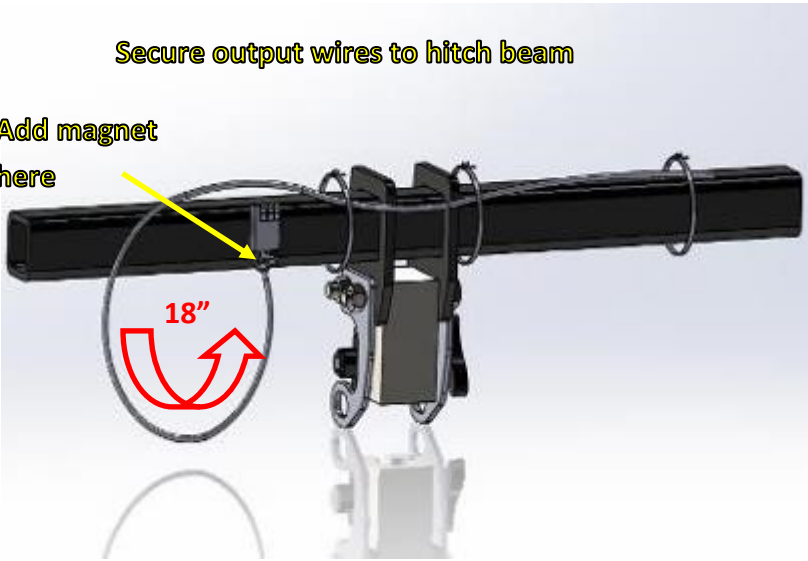


<p>Tin Snips</p>  <p>Dremel Tool</p>  <p>File</p> 	<p>21. Trim the heat shield in two places as shown, with tin snips. Fold the cut edges to eliminate sharp, exposed edges. Fold the flap (between cut sides) down and back for clearance. This "fold line" is shown in yellow.</p> <p>22. Cut plastic trim piece as shown. Discard plastic trim piece. Save plastic trim piece for later install.</p>	
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<p>Dremel Tool</p>  <p>File</p>  <p>(2) Mounting Base 1x1</p> 	<p>23. Cut off the passenger side fascia tab as shown. Add (2) mounting base on fascia as shown for later install for hands-free trunk release cable.</p>	
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<p><u>Drill</u></p>  <p><u>3/8" Drill Bit</u></p>  <p><u>Silicone</u></p> 	<p>24. Remove the grommet from the side, on driver side of vehicle. Drill hole in grommet. Route the output and power wires through the grommet from outside of the vehicle to the inside of the vehicle.</p> <p><i>(Use silicone to waterproof the grommet)</i></p>	<p>Drill a 3/8" hole in grommet</p> 
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<p><u>Stripper/ Crimping Tool</u></p> 	<p>25. Match the colors and use a Crimping tool to crimp the output wires to the harness inside the vehicle. Secure the output wires.</p> <p><i>(Note: The Butt splice connectors are heat shrink connectors. Apply heat to waterproof the connectors after crimping.)</i></p>	<p>Match the colors and crimp</p> 
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	<p>26. Secure harness to hitch beam with zip ties. Maintain an 18" loop from zip tie to 4 way connector. Add the magnet and secure it with zip tie to the harness close to the 4 way connector.</p>	<p>Secure output wires to hitch beam</p> <p>Add magnet here</p> 
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Pliers

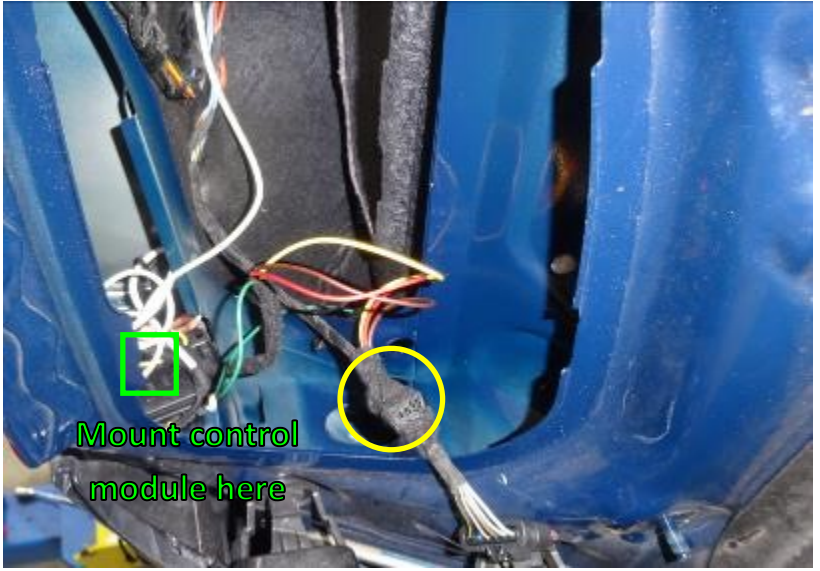


Multimeter




27. On Driver side of the vehicle. Use “clamp-on” connectors to connect to brown, red and yellow input wires as indicated in chart below. Use supplied double sided tape to mount control module as showed .

Manufacturer may change wire colors, anytime. Verify circuits (wire colors) with multimeter.




Mount control module here

Pliers

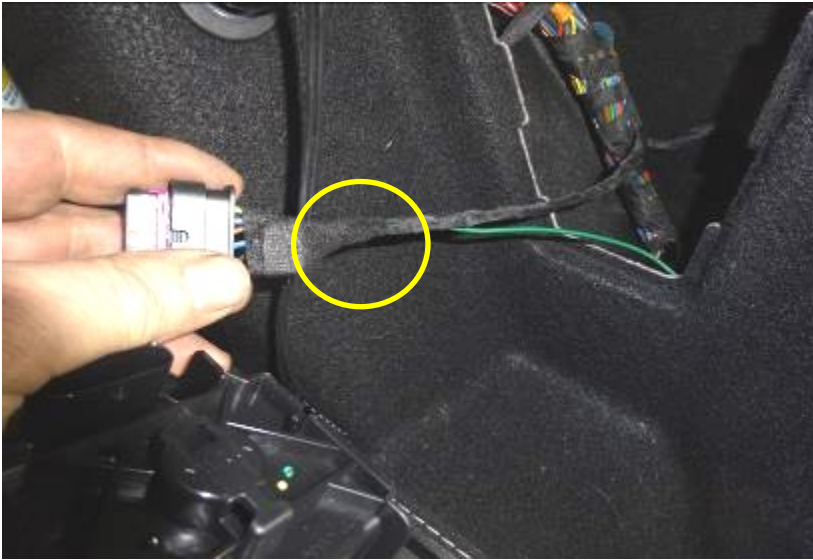


Multimeter



28. On passenger side of the vehicle. Use “clamp-on” connectors to connect to green input wire as indicated in chart below.

Manufacturer may change wire colors, anytime. Verify circuits (wire colors) with multimeter.



<u>Signal Input Wires</u>			<u>Power & Ground Wires</u>		
<u>Function</u>	<u>Harness</u>	<u>Vehicle</u>			
<u>Left turn</u>	Yellow	Black/White	<u>12V+</u>	Black	Battery (+)
<u>Right turn</u>	Green	Blue/Grey	<u>Ground</u>	White	Ground Stud (-)
<u>Marker</u>	Brown	Grey/Purple			
<u>Brake</u>	Red	Black/Yellow			
<u>Reverse</u>					

**10mm
Socket**



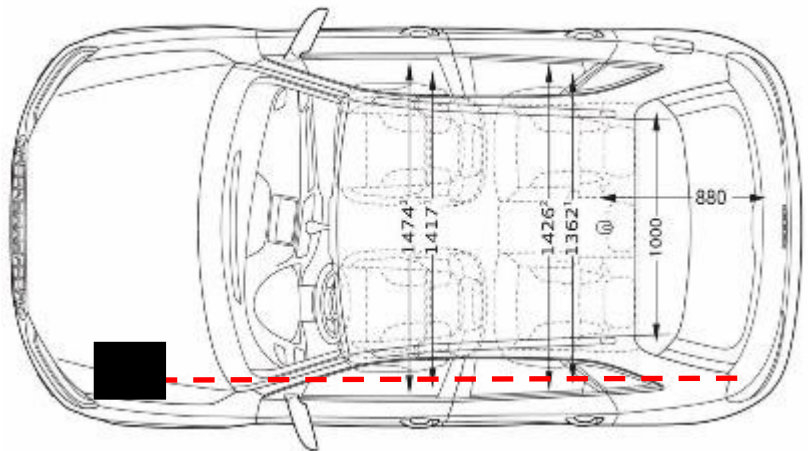
**Stripper/
Crimping
Tool**



29. Crimp the ring terminal to the ground wire. Remove the nut from the ground stud, with a socket. Insert the ground ring connectors to ground stud and tighten.



30. Run the power wire under Driver side to the battery, as shown.



**10mm
Socket**



31. Loosen (4) nuts in the gravel guard to allow for power wire to be routed. Secure wiring with zips ties.



10mm



Stripper/
Crimping
Tool



32. Uncover the battery. Run power wire to the rear of firewall, and to the positive side of battery. Secure wiring with zip ties.

33. Crimp Fuse lead to black wire and connect to battery (+). When harness installation is complete, add 20 amp fuse to fuse holder.



8mm Socket



34. Reattach the hands-free trunk release cable holder using a socket. Plug in the center connector.



Plastic Rivets



35. Complete steps 1 through 15, in reverse order, to complete the installation. Use the provided rivets for trim insulation in the wheel well.

(It's important to remember to plug in the PDC sensor before you completely install the fascia.)



Side Cutter



8mm Socket



35. Use the (2) supplied zip ties to attach the hands-free trunk release cable to the fascia.

36. Attach the save plastic trim piece using a socket.

37. Finished look

