

ROUSH Convertible Light Bar Kit

P/N R08060001, R08060008, R080600010

Application: 2005 - 2010 Convertible Ford Mustang

Important Note: This Light Bar is not intended to be used as a Roll Bar and will not provide any protection in the event of a roll-over accident.

Installation Instructions

Before installing your ROUSH Performance Product(s), read through the entire installation procedure and check to make sure all items are present. Contact ROUSH Customer Service at 1-800-59-ROUSH, weekdays from 9:00 AM to 5:00 PM EST, with any questions regarding fit, missing parts or instructions that are unclear to you.

Packaging List for Complete Light Bar Kit

<u>Item</u>	<u>Part No.</u>	<u>Quantity</u>
Convertible Light Bar	R08060002 (Charcoal) R08060009 (Dove Gray) R08060011 (Camel)	1
Driver Side Bracket w/Set Screw	R08060003	1
Passenger Side Bracket w/Set Screw	R08060004	1
Wiring Harness	R08060005	1
Hardware Kit	R08060006	1
Button Head Bolt		4
Flange Nut		4
Template	R08060012	1
Installation Instructions	R08060007	1

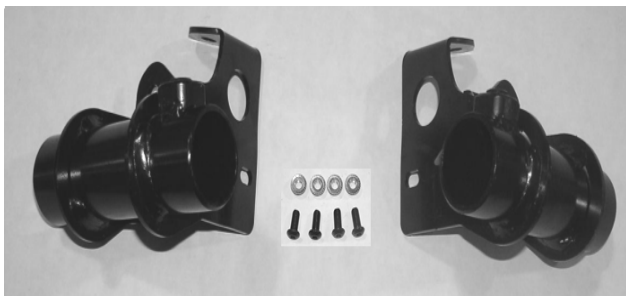


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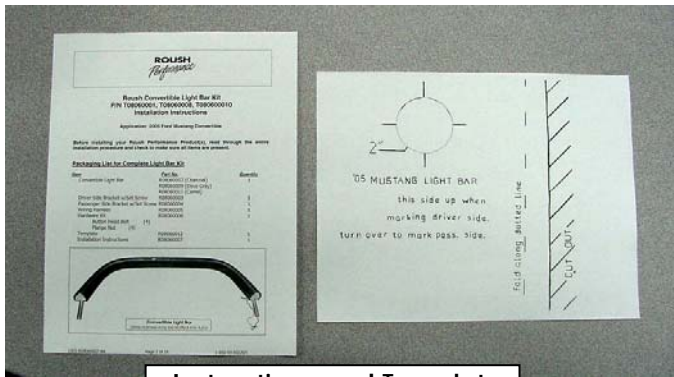
THE ART OF PERFORMANCE ENGINEERING



Wiring Harness #R08060005



Driver Side Bracket #R08060003
 Passenger Side Bracket #R08060004
 Hardware Kit #R08060006



Instructions and Template

Equipment and Supplies Required

- 3/8" Drive Ratchet
- 3/8" Drive 3" Extension
- 3/8" Drive 10mm Socket
- 3/8" Drive 13mm Socket
- T-50 Torx Bit
- Trim Tool (Fork Tool)
- Heat Gun (or similar heat source)
- 1/4" Allen Wrench (4" long, ball-ended recommended)
- Center Punch
- 1/2" Wrench
- Solder
- Solder Iron

- Drill Motor
- 1/8" Drill Bit
- 5/16" Drill Bit
- 2" Hole Saw
- T-20 Torx Bit
- Wire Crimpers
- Wire Strippers/Cutters
- 3/16" Allen Wrench
- Hammer
- Shop Vacuum
- Electrical Tape

LIMIT OF LIABILITY STATEMENT

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. ROUSH Performance Products (RPP) reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

SAFETY REQUIREMENTS

STOP! READ IMPORTANT SAFETY CAUTIONS AND WARNINGS BEFORE PROCEEDING.

IMPORTANT SAFETY NOTICE

Appropriate disassembly, assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personal injury or death. Read each step of the installation manual carefully before starting the actual installation.

1. Always wear safety glasses for eye protection.
2. Place ignition switch in the OFF position.
3. Always apply the parking brake when working on a vehicle.
4. Block the front and rear tire surface to prevent unexpected vehicle movement.
5. If working without a lift, always consult vehicle manual for correct lifting specifications.
6. Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
7. Do not smoke or use flammable items near or around the fuel system.
8. Use chemicals and cleaners in well-ventilated areas.
9. Batteries produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks or flammable substances to come near the battery.
10. Keeps hands and any other objects away from the radiator fan blades.
11. Keep yourself and your clothing away from moving parts when the engine is running.
12. Do not wear loose clothing or jewelry that can get caught in rotating parts or scratch surface finishes.
13. Allow the engine, cooling system, brakes and exhaust to cool before working on a vehicle.

WORK SAFELY!

Perform this installation on a good clean level surface for maximum safety and with the engine turned off.

1. Remove Back Seat:

- A) Locate the retainers securing the seat bottom into the vehicle, approximately 10 inches from the end of the cushion, either side. Use your thumb to push in retainer release tab. Lift the seat up to remove. Refer to Figure 1.

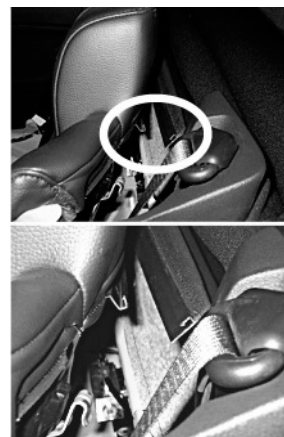


Figure 1

- B) Remove the two 13mm screws securing the seat back, located on each lower corner. Lift seat upward to release seat back from brackets at the top. You can carefully prop the seat back under the retracted top. Refer to Figure 2. Use caution if choosing this method not to damage or scratch the vinyl of the seat. You can remove the seat from the vehicle completely by disengaging the flanges securing the top of the rear seat to the fabric of the convertible top well. Refer to Figure 3.



Figure 2



To remove rear seat back, you must disengage the fabric flange between the rear seat and the convertible top well .

Figure 3

2. Remove Quarter Trim Panels:

- A) Grip the Quarter Trim Panel Cap at the shoulder strap opening and lift up to dislodge the retaining clips. Refer to Figure 4.



Figure 4

- B) The inside Quarter Trim Panels are two-piece panels. Remove the upper portion of the Quarter Trim Panel from the vehicle; it is not necessary to remove the lower portion. Pull the forward edge of the trim Panel over the pinch weld in the doorjamb. Use a Door Trim Tool (Fork Tool) to dislodge the pushpin retainer at the rear edge of the Trim Panel approximately 4" down from the top, pry Trim Panel toward the outside of car to release retainer. Refer to Figure 5.



Figure 5

- C) Use a Door Trim Tool (Fork Tool) to dislodge the pushpin retainer at the rear edge of the Trim Panel approximately 4" down from the top, pry Trim Panel toward the outside of car to release retainer. Refer to Figures 6 & 7.

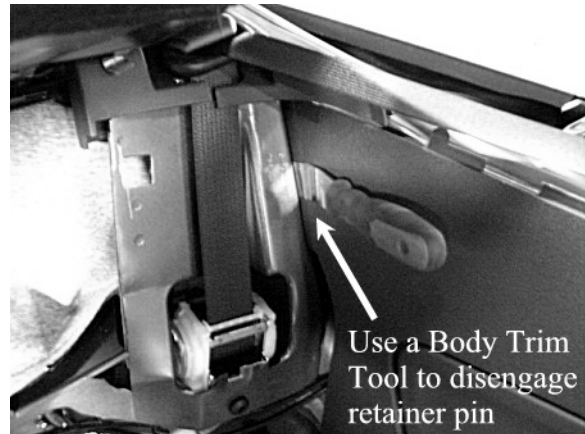


Figure 6

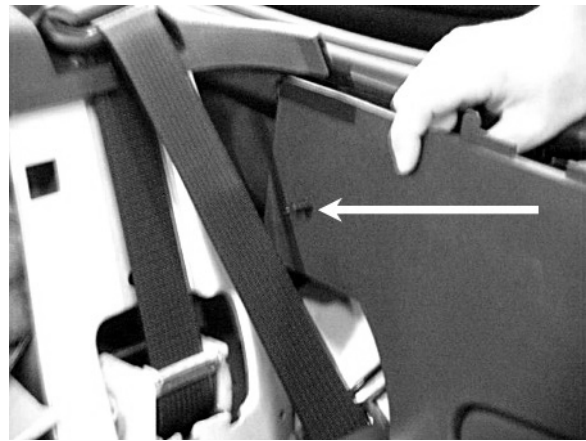


Figure 7

3. Install Light Bar Brackets:

- A) Remove the shoulder belt guide retaining bolt with a T-50 Torx Bit. Remove the 10mm head bolt directly behind the shoulder belt guide. Refer to Figure 8.



Figure 8

- B) Install the Light Bar Bracket to the vehicle using the factory bolts removed in the above step. Refer to Figure 9.

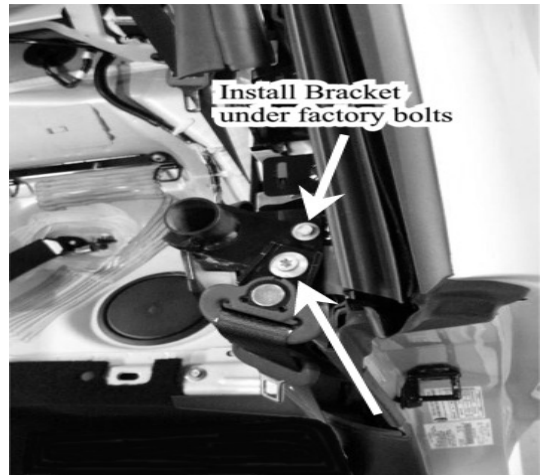


Figure 9

Note: It is imperative that the shoulder strap guide bolt spacer fit inside of the clearance hole of the Light Bar Bracket so that the seat belt functions properly and the Light Bar Bracket fits properly.

Note: Torque seat belt guide bolt (T-50 Torx) to 30lb-ft.

- C) Remove the four (4) Speaker fasteners with a T-20 Torx bit and remove the speaker. Move speaker away from the general area to keep drill shavings from sticking to the speaker magnet.
- D) Remove the belt retractor retaining bolt with a T-50 Torx bit. Refer to Figure 10. Lift up on the base of the retractor and detach top hook. Place retractor out of way of any debris.

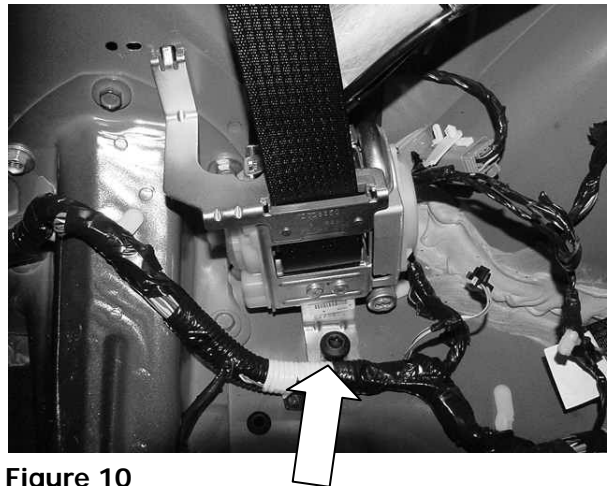


Figure 10

- E) With the Light Bar Bracket in place and secured by the 10mm head bolt and the shoulder strap guide bolt reinstalled and tight, center punch through the two Bracket attachment holes. Drill $\frac{1}{8}$ " pilot holes through Bracket hole into sheet metal. Enlarge pilot holes to $\frac{5}{16}$ ". Refer to Figure 11.



Figure 11

Note: It is very important that you protect the Seat Belt and the Shoulder Strap Retractor from the cutting debris that is created during the drilling process. We recommend using a Rag to cover the Retractor to keep debris out of the mechanism during drilling.

- F) Using the Shop Vac, vacuum up any metal shavings.
- G) Reinstall belt retractor and torque T-50 Torx fastener to **30 lb-ft**.
- H) Install the Button Head Screws through the Bracket, securing Bracket to the vehicle, and tighten to **18 lb-ft**. Refer to Figure 12.



Figure 12

- I) Reinstall the Drivers Side upper portion of the Quarter Trim Panel. Install only the pushpin retainer portion or the Passenger Side Quarter Trim Panel.

4. Cutting holes in Quarter Trim Panel Caps:

- A) Cutout the Template (supplied in kit) and place on the Passenger Side Trim Panel Cap and align as directed on the Template. Refer to Figure 13. Center punch the 2" hole center point, remove the template and drill an 1/8" pilot hole. Follow in the pilot hole with a 2" Hole Saw.
- B) Flip the Template over and place on the Driver Side Trim Panel Cap and repeat the above steps for marking and drilling the 2" hole.

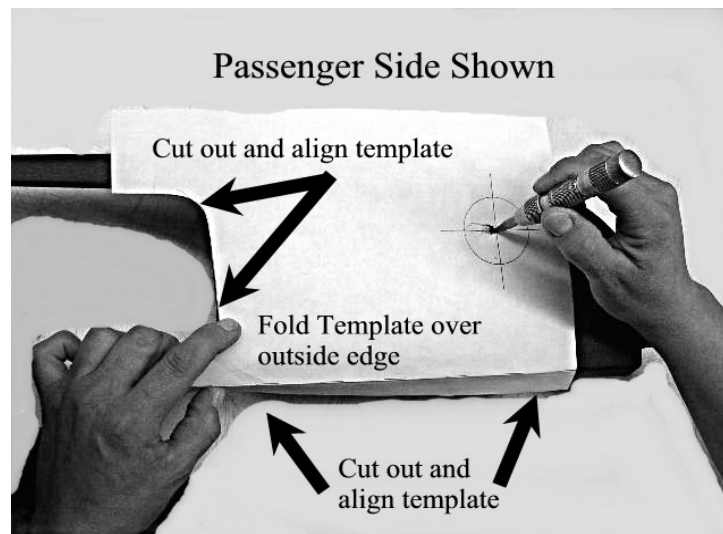


Figure 13

5. Reinstall Quarter Trim Panel Caps:

Install the Drivers side Trim Panel Cap and loosely install the passenger side Cap (do not fully clip into place). Verify that the 2" holes drilled in step #4 do not obstruct the Light Bar Bracket receiver tube. If the receiver tube is blocked, trim the Cap as necessary to achieve an unobstructed path for the Light Bar to install into.

6. General Wire De-pinning Procedure

Note: The directions and pictures in the following are for illustration only and do not exactly represent any of the exact connectors that are part of this procedure. Use extreme care when trying to de-pin a wire, the process does not require very much force. If too much force is applied, the locking tab will break. Without a functioning locking tab, there will be no way to retain the wire/pin in the connector body and it will pull/vibrate out of the connector.

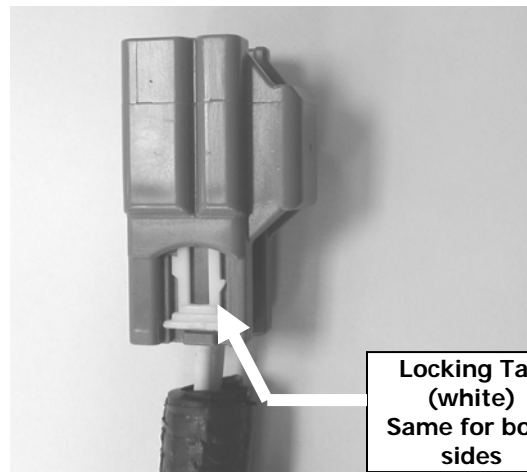
- A) Verify that the correct wire and cavity location have been chosen. Refer to Figure 14.



Connector with
Cavity #s
highlighted for
clarity

Figure 14

- B) Remove the locking insert by lifting its tab from both sides of the connector body. Refer to Figures 15 & 16. Slide forward until both are fully into the body of the connector. Using a pick tool or paper clip, lift the locking insert out of the face of the connector. Refer to Figure 17.



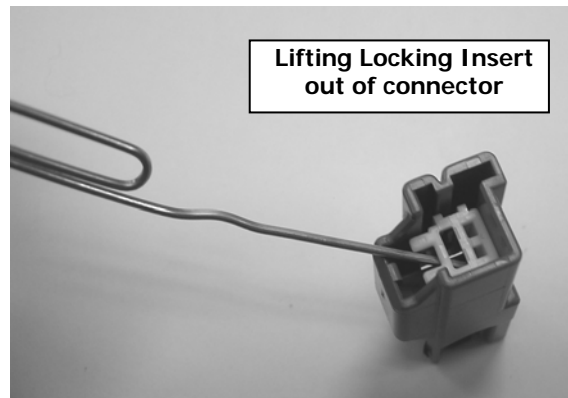
Locking Tab
(white)
Same for both
sides

Figure 15



Connector with Locking Insert fingers
lifted out (bent out for clarity).
Push forward from here.

Figure 16



Lifting Locking Insert
out of connector

Figure 17

- C) Holding a very slight tension on the wire you intend to remove, insert a pick tool or paper clip down into the face of the connector and slide it down the edge of the pin you want to release. Carefully slide the pick/clip between the pin and the locking tab and lift the tab and pull the Pin out of the bottom of the connector. Refer to Figure 18.

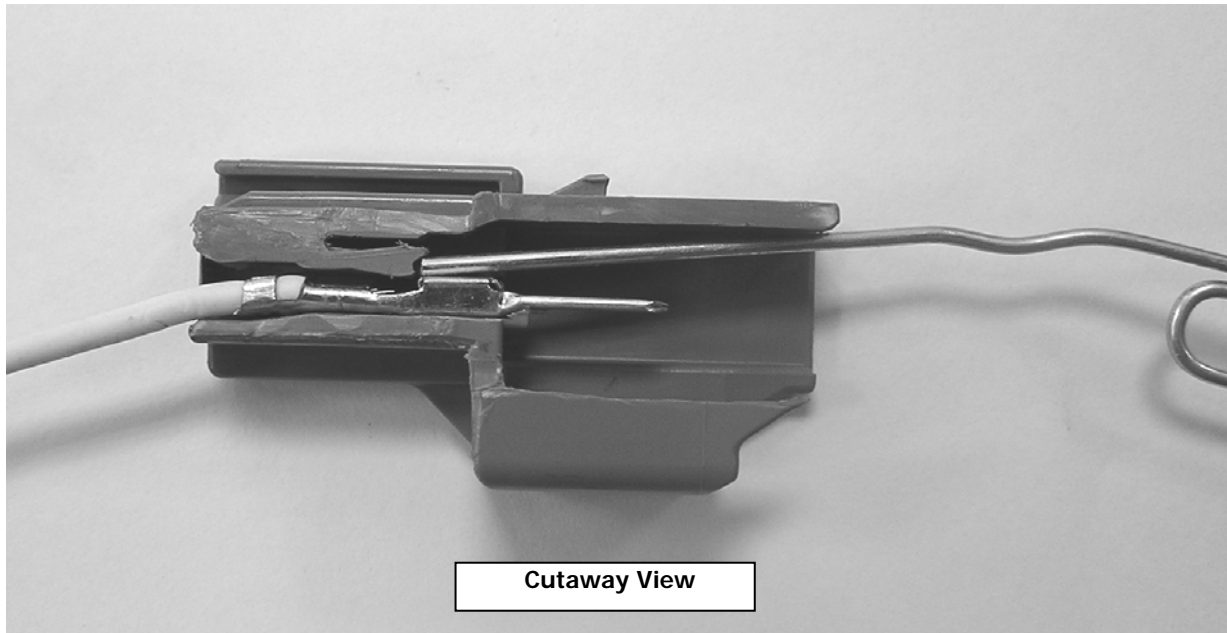


Figure 18

Hint: If using a paper clip or similar to remove the pin, sharpening the tip to a point will help you get the tip under the locking pin easier.

- D) Install new pin/wire by gently inserting the pin into the bottom of the connector in the proper orientation (will only slide in properly in one orientation) and sliding it in until it clicks into place and cannot be pulled back out. Replace the locking insert.

7. Install Center High Mount Stop Lamp (CHMSL) Wiring

Wire Harness Installation Notes: The 2010 Mustang has wire harness changes that affect the installation of the Roush Light Bar Wiring Harness. The 10 way connector, in the trunk, which was used as the source of the CHMSL circuit on 05-09 models, is not available.

The CHMSL circuit, on the 2010 Mustang, originates at the Body Control Module (cavity 18) and is a single Yellow/Gray wire to the CHMSL. In order to connect to the CHMSL circuit, the Yellow/Gray wire must be located and the Light Bar Wire Harness spliced to it.

Steps 7. A) through Steps 7. D) are used for Model Years 2005 to 2009 Convertible Mustangs.
Steps 7. E) through Steps 7. G) are used for Model Years 2005 to 2010 Convertible Mustangs.
Steps 7. H) through Steps 7. L) are used for Model Year 2010 Convertible Mustangs.

(05-09 Mustang)

- A) Locate the Decklid wiring connector under the trunk ledge on the passenger side of the trunk. Unplug this connector. Refer to Figure 19.



Figure 19

(05-09 Mustang)

- B) Locate the Tan w/ Light Blue Tracer wire in cavity #2 (cavity #s can be found on the back edge of the connector body) of the car side of the connector. Refer to Figure 20. De-pin this wire as per the **General Wire De-pinning Procedure** previous to this section. Pull this wire back an inch or two loose from the rest of the harness removing any harness tape necessary.

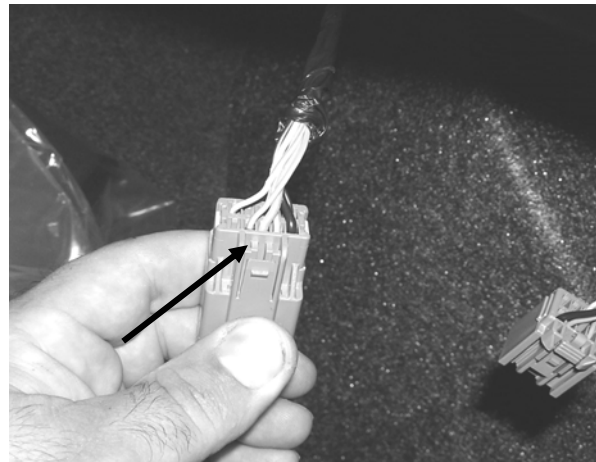


Figure 20

(05-09 Mustang)

- C) Locate the pin on the supplied harness that is furthest from the small black connector that is also on the supplied harness (L11 is printed on the wire). Insert this pin into cavity #2 in place of the pin you just removed. Refer to Figure 21. Cut off the pin from the Tan w/Lt. Blue wire and strip off 3/8" of insulation. Insert stripped portion into the pink crimp connector and crimp the center, metal portion of the connector. Using a Heat Gun or similar tool, Heat the pink crimp connector to shrink and seal the connector.

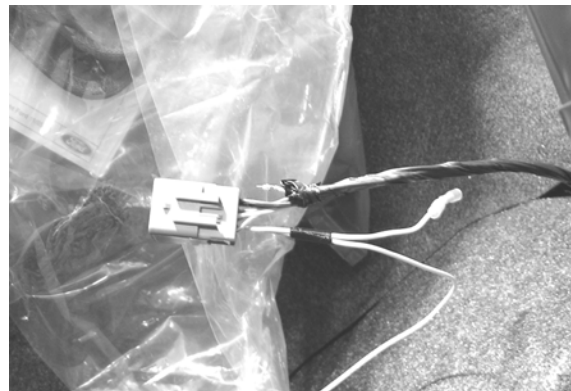


Figure 21

(05-09 Mustang)

- D) Tape the new harness to the existing harness and route the new harness behind the carpeted trim panels and forward, following the factory harness, to the rear seat. Refer to Figure 22.

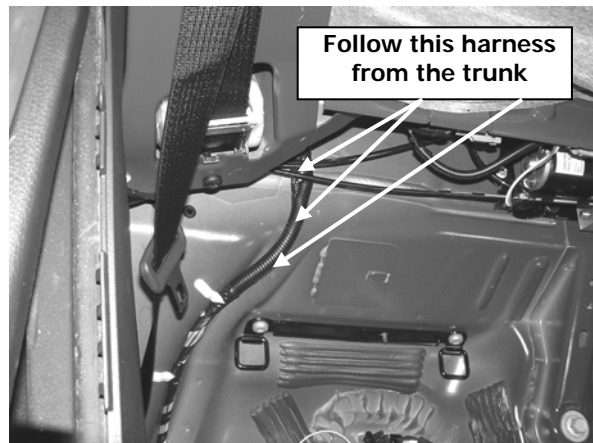


Figure 22

(05-10 Mustang)

- E) Locate the Convertible Top Position Sensor harness in the passenger side quarter panel pocket just rear of the speaker. Refer to Figure 23.

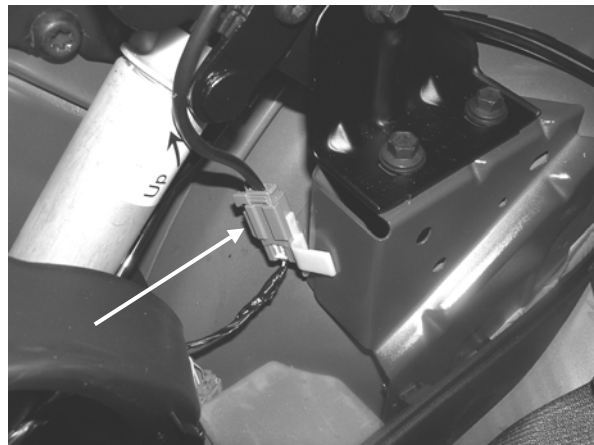


Figure 23

(05-10 Mustang)

- F) Unplug this connector and locate the White w/Violet tracer wire **(05-09)**, Yellow w/Gray tracer wire **(2010)** in cavity #2. De-pin this wire as per the General Wire De-pinning Procedure previous to this section. Refer to Figure 24. Pull this wire back an inch or two loose from the rest of the harness removing any harness tape as necessary.

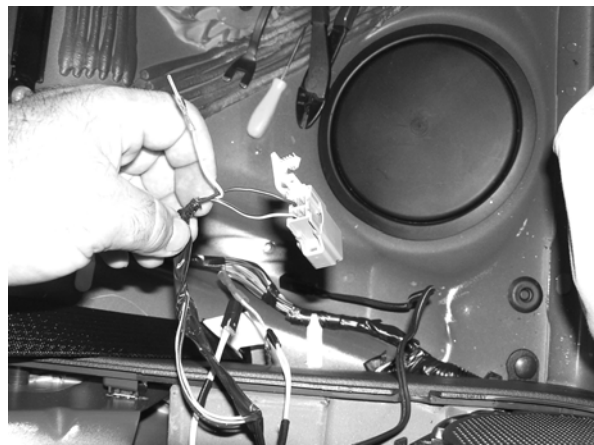


Figure 24

(05-10 Mustang)

- G) Insert the remaining new harness pin (L12B is printed on the wire) into cavity #2. Cut off the pin terminal from the White w/Violet tracer wire (05-09), Yellow w/Gray tracer wire (2010) and strip off 3/8" of the insulation. Insert the stripped portion into the pink crimp connector and crimp the center, metal portion of the connector. Using a Heat Gun or similar tool, Heat the pink crimp connector to shrink and seal the connector. Plug in and reattach the connector. Refer to Figure 25.



Figure 25

Note: Take special care to insure you are inserting the pin into the same cavity you removed the pin from. There is another empty cavity in the connector.

(2010 Mustang)

- H) Obtain the Light Bar Harness, #R08060005-13-AA, from the Light Bar Kit. Cut the harness per Diagram 1. Strip the insulation 1/2" from the cut end.

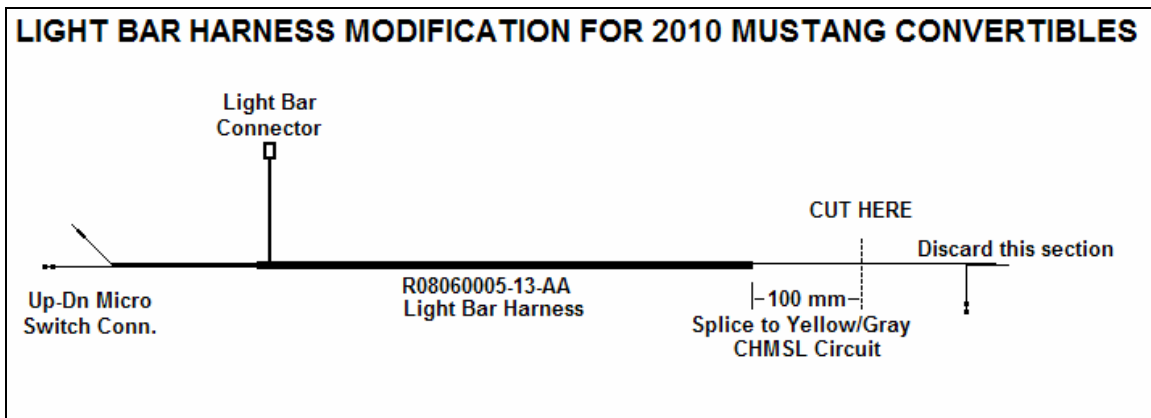


Diagram 1 (2010 Mustang)

(2010 Mustangs)

- I) Locate the wire harness at the right rear corner of the cabin as shown in Figure 26.



Figure 26

(2010 Mustangs)

- J) Remove 5-6 inches of the black loom tape (non-sticky) from the body harness as shown in Figure 27. Locate the Yellow/Gray wire (the only Yellow wire in the bunch).



Figure 27

(2010 Mustangs)

- K) Using wire strippers remove 3/4" of the wire insulation and splice & solder the cut / stripped end of the Light Bar Wire Harness to the Yellow/Gray wire. Cover the splice with electrical tape.

(2010 Mustangs)

- L) Rewrap the wire harness with electrical tape.

8. Installation of ROUSH Light Bar:

- A) Feed the LED wire down through the loosely installed passenger side Trim Panel Cap and then through the Light Bar Bracket receiver tube. Evenly lower ROUSH Light Bar partially into holes. Route the LED wire through the speaker bracket and connect it to the small black connector on the newly install light harness. Secure wiring with Zip ties.
- B) Install the upper, passenger side portion of the Quarter Trim Panel.
- C) Install the passenger side Trim Panel Cap.
- D) Evenly lower the ROUSH Light Bar down to the tops of Trim Panel Caps. With the bottom of the Light Bar flat on the surface of the Trim Panel Caps, tighten the Light Bar Bracket Set Screw. (Refer to Figure 26)

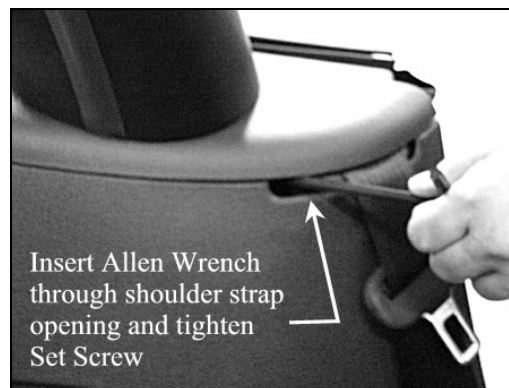


Figure 26

9. Reinstall your back seat:

- A) Reinstall by reversing Step 1.

10. Wiring Diagram

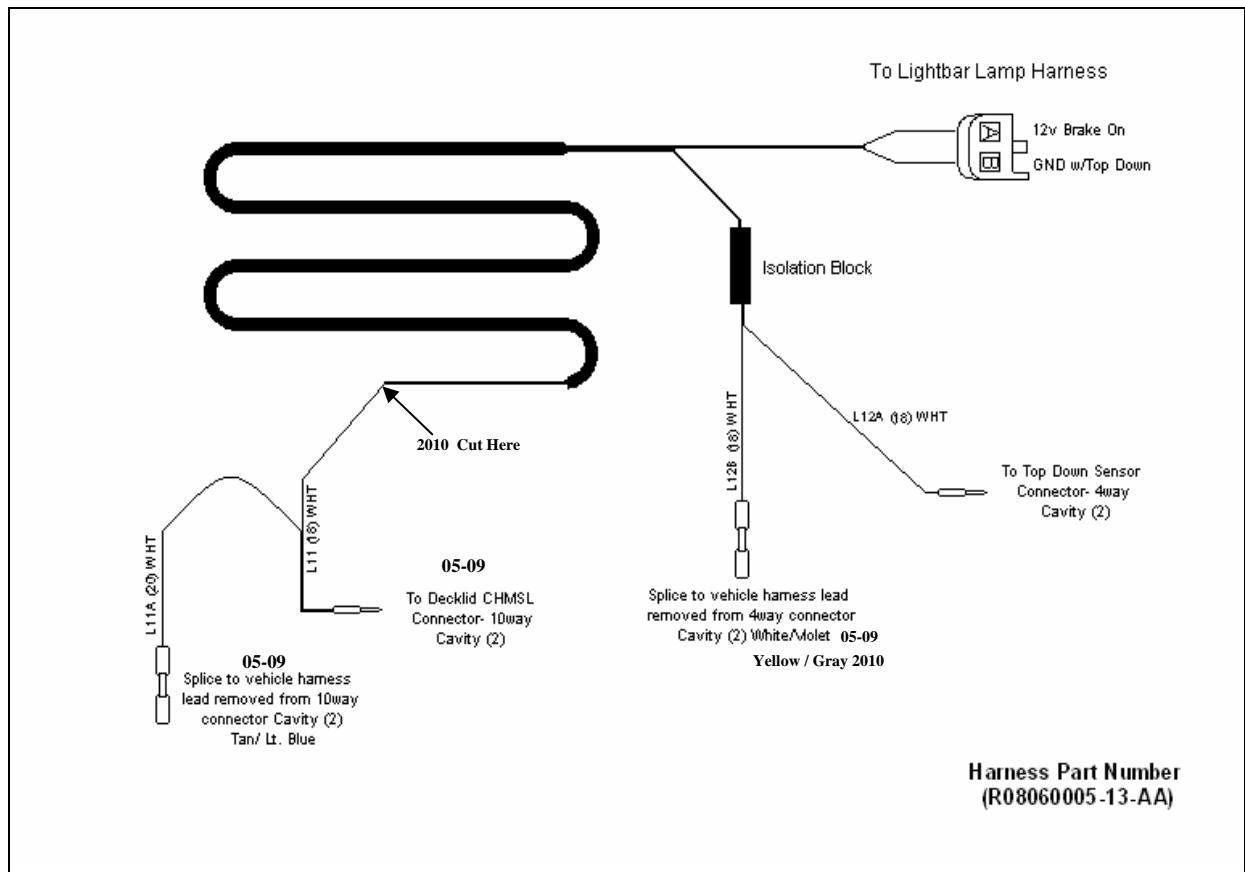


Diagram 2 (05-10 Mustang)

Congratulations!!! You have completed the installation of the ROUSH Performance Products, Light Bar Kit. It is recommended that you save all parts removed from your vehicle during the installation of this kit.



WARRANTY

All retail parts carry a 90-day warranty from the date of purchase. This warranty covers defects in materials or workmanship, and does not include (i) normal wear and tear, environmental conditions, improper installation; (ii) road hazards, misuse, abuse, neglect, accidents, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle; (iii) misusing the vehicle, such as driving over curbs, overloading, racing, or using the vehicle as a stationary power source; (iv) altering, disassembling or modifying the parts; (v) defects caused or induced by failures, breakdowns, or damage by other parts, components or the vehicle; (vi) subjecting the parts to excessive moisture or water or any motor vehicle fluids (e.g.: oil, anti-freeze, battery acid, brake fluid, etc.); (vii) acts of God, natural disasters and other similar causes beyond the reasonable control of ROUSH; or (viii) application of chemicals that affect the parts. This Limited Warranty does not cover surface deterioration of paint, trim, and appearance items that result from use and/or exposure to the elements, such as stone chips, scratches, bird droppings, lightning, hail, windstorm, dings, dents, earthquake, road salt, tree sap, water or flood.

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