



**Ford Mustang
Roush Fog Lamp Wiring Harness
Installation Instructions**

Application: 2005– Ford Mustang GT Model
(Designed for use with Roush Fog Lamps SM01-6400-AL)

Before installing your Roush Performance Product(s), read through the entire installation procedure and check to make sure all items are present.

Packaging List for Fog Lamp Wiring Harness Kit # R03010080

<u>Item</u>	<u>Quantity</u>
Fog Lamp Harness (#R03010084)	1
Fog Lamp Switch (#R03010085)	1
Hardware Kit (#R03010086)	1
Terminated Circuit G2	1
Terminated Circuit L10	1
Splice Clip	1
1.5" of ¼" Shrink Tube	1
Screws - M4.2-1.41x20mm w/16mm OD washer	2
Installation Instructions (#R03010081)	1

Equipment and Supplies Required

Drill
Side Cutters
Center Punch
Solder Gun
Wire Strippers
1/8in Drill Bit
3/4in Hole Saw
4in Zip Ties



LIMIT OF LIABILITY STATEMENT

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1. 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. Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
6. Do not smoke or use flammable items near or around the fuel system.
7. Use chemicals and cleaners in well-ventilated areas.
8. Batteries produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks or flammable substances to come near the battery.
9. Keeps hands and any other objects away from the radiator fan blades.
10. Keep yourself and your clothing away from moving parts when the engine is running.
11. Do not wear loose clothing or jewelry that can get caught in rotating parts or scratch surface finishes.



2. Fog Lamp Wiring Harness Installation

1. Open the vehicle hood and remove the black plastic panel on top of the radiator.
2. Lay out the Roush wiring harness in the engine compartment according to the following diagram.

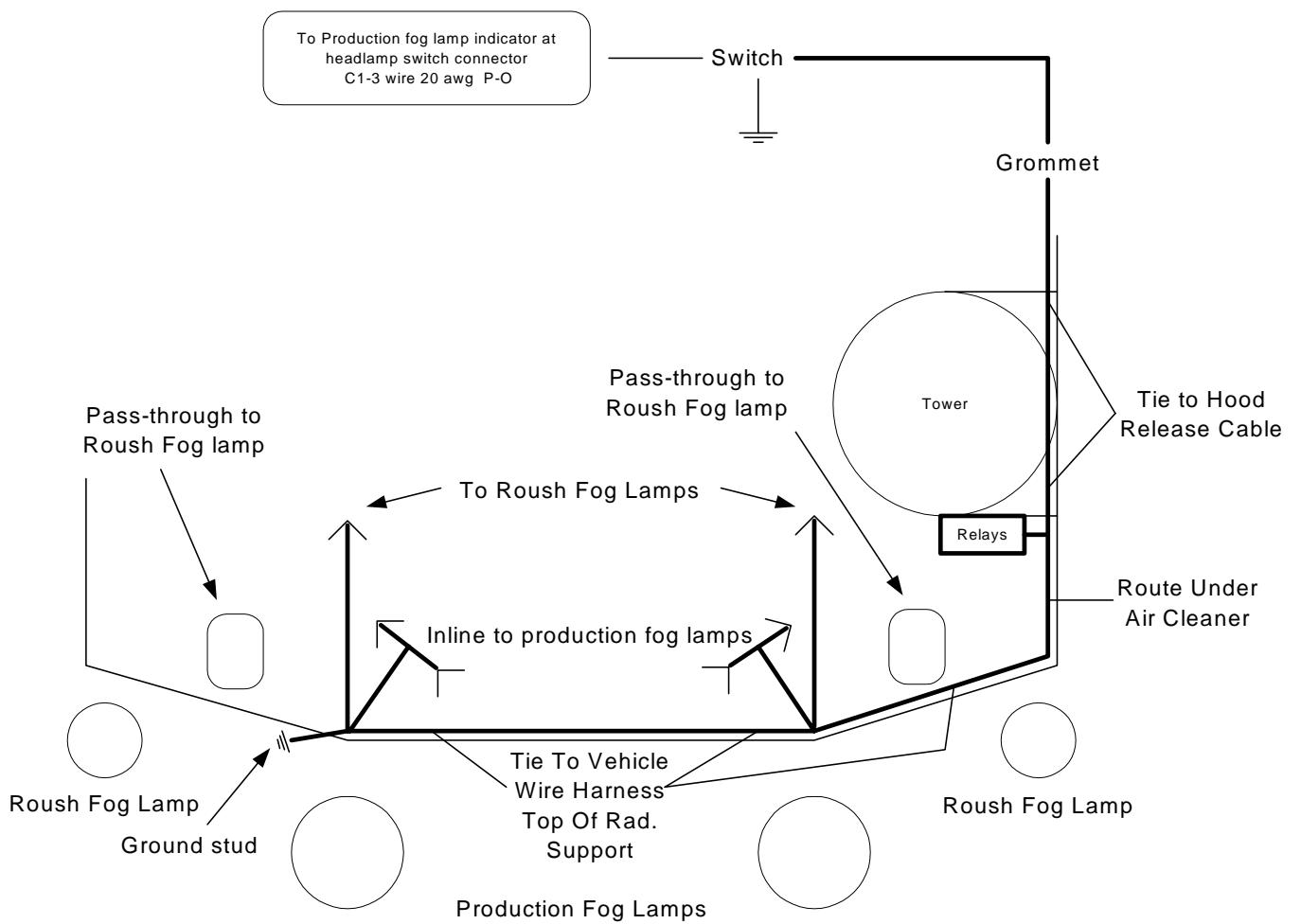


Diagram 1

3. Disconnect the production Ford wiring harness from the Ford fog lamps.



4. On the new harness, plug Roush connector C2 and C4 into the Ford fog lamp wiring harness.
5. Plug Roush connector C1 and C3 into the Ford fog lamps.
6. Plug Roush connector C5 and C6 into the Roush fog lamps.
7. Connect the ground on the Roush wiring harness using the existing Ford ground bolt on the radiator core support. (see diagram 1)
8. Using the (2) screws provided, attach the Roush Relay Module to the driver's side strut tower. (see diagram 1)
9. Zip the Roush wiring harness to the Ford wiring harness and to the hood release cable beside the strut tower. (see diagram 1)
10. Re-install the black plastic panel on top of the radiator.

3. Roush Fog Lamp Switch Installation

1. Remove the driver's side front wheel and front wheel well liner (see figure A).



Figure A

2. Route the Roush wiring harness from the engine compartment to the grommet in the front wheel well.



3. Use side cutters to cut the end off the spare nipple in the grommet. Insert the single L9 wire with connector through the hole in the nipple and insert ½" of the convolute into the nipple. Place a zip tie around the nipple to hold the Roush wiring harness in place (see figure B). Zip tie the Roush wiring harness to the Ford main harness.



Figure B

4. Re-install the driver's side front wheel well liner and front wheel.
5. Remove the Ford headlamp switch assembly and disconnect the gray connector. (see figure C)



Figure C



6. Drill a $\frac{3}{4}$ inch hole through the lower dash kick panel, inner and outer panels. Center of hole should be located $1\frac{3}{4}$ inch down from trim line and $2\frac{1}{2}$ inch over from left corner of dash kick panel. (see figure D)

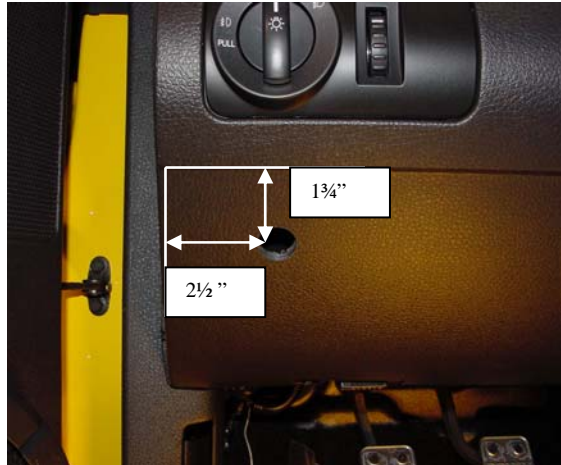


Figure D

7. Route wire L9 through hole.
8. Attach wire L9 to terminal 1 on the Roush fog lamp switch.
9. Route wire L10 and G2 through hole.
10. Attach wire L10 to terminal 2 on the Roush fog lamp switch.
11. Attach wire G2 to terminal 3 on the Roush fog lamp switch.
12. Locate wire C1-3 P-O (purple - orange) on the Ford headlamp switch harness. De-pin or cut wire C1-3 P-O to install heat shrink. Slide heat shrink over cut wire. Solder wire L10 to it. Cover solder joint with the heat shrink and reconnect. (see figure E)

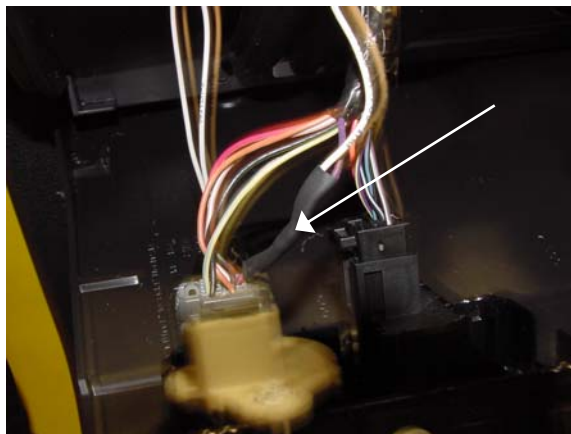


Figure E



13. Attach wire G2 eyelet to ground point under the dash and zip tie wires out the way.
14. Install the Roush fog lamp switch and tighten the jam nut.
15. Re-install Ford headlamp switch assembly. (see figure F)



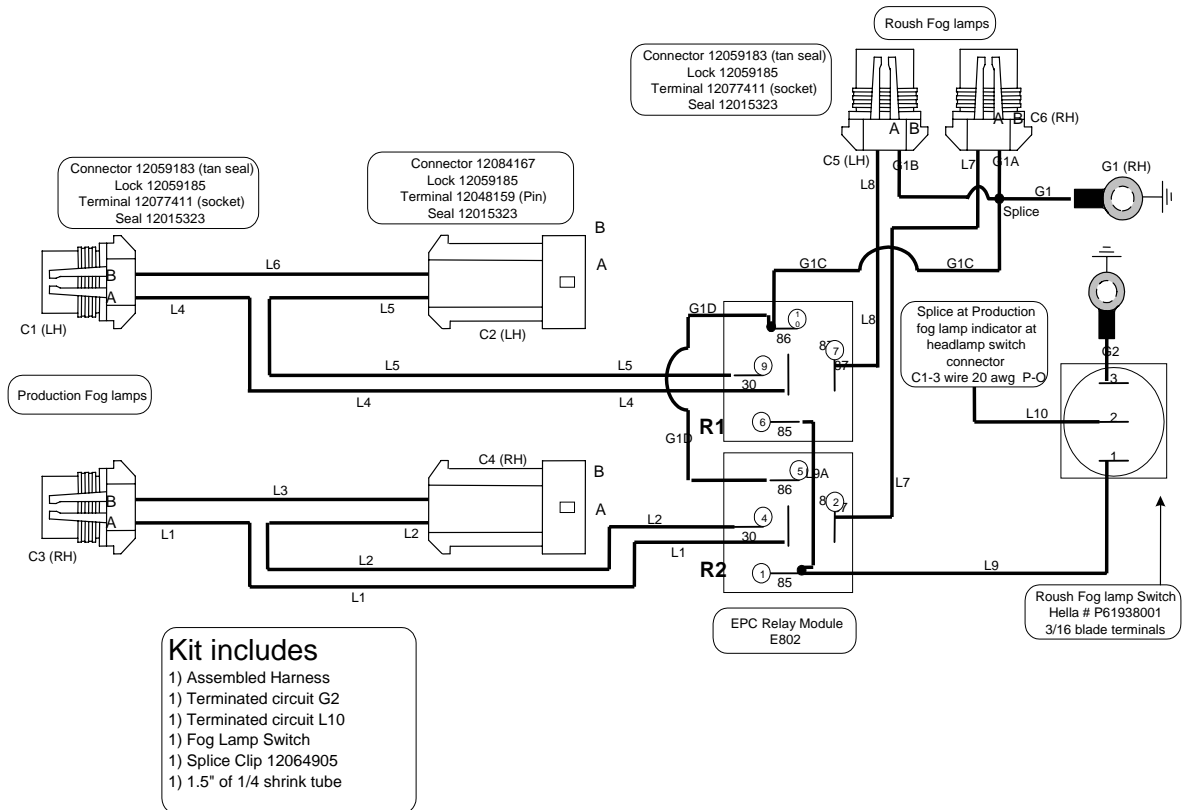
Figure F

3. Roush Fog Lamp Function Test

1. Turn the ignition to the ON position.
2. Turn head lamp switch clockwise so that the headlamps are ON. Pull out the switch to turn ON the (1) set of the fog lamps.
3. If the Roush fog lamp wiring harness and switch have been correctly installed, the Roush fog lamps should turn ON when the Roush fog lamp switch is in the lighted position. The production Ford fog lamps should turn OFF.
4. When the switch is in the non-lighted position, the production Ford fog lamps should turn ON, and the Roush fog lamps should turn OFF.
5. Regardless of the Roush fog lamp switch position, the fog lamps (either Ford or Roush) will only function when the headlamps are on the LOW beam position. In the HIGH beam position, the fog lamps will be OFF.



Roush Fog Lamp Wiring Harness Schematic





WARRANTY

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