



Factory Five Racing, Inc.

Part Number: 13361 Revision: R Effective Date: 3/13/2020 By: Jesper Ingerslev

Coupe Windshield Wiper

INSTALLATION INSTRUCTIONS

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- ✂ Tubing cutter, Tube flaring tool, Wire crimper, Volt meter, Ruler/tape measure, Drill, Marker, $\frac{5}{16}$ "', $\frac{3}{8}$ "', $\frac{5}{8}$ "' drill bits, Clamp, Masking tape, Wire cutter, Flat head screwdriver, $\frac{1}{2}$ "', 21mm wrenches, chassis grease.
- ✋ There are extra parts in the wiper kit. The angled chrome bases, oval rubber gaskets, angled rubber sleeves are not used.

Wiper Wheelbox mounting locations



Use the chrome wiper base upside down at the molded in wiper locations and run a marker around the inside of the hole.



Mark the center of the circle made.



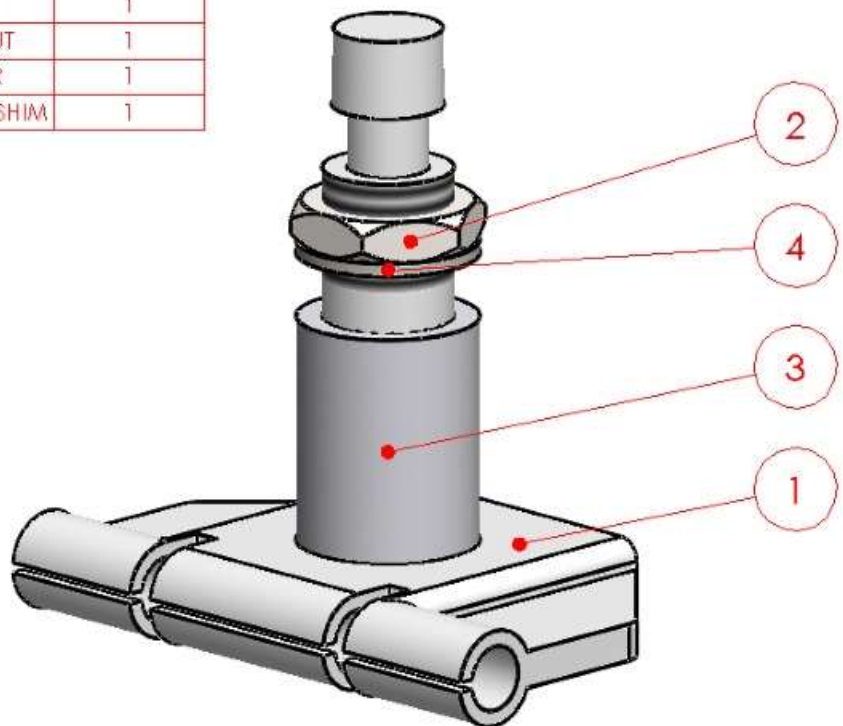
Use a $\frac{3}{16}$ " drill bit to drill the center of the hole wheelbox location.



Open up the holes using a $\frac{5}{8}$ " drill bit.

Test fit the wheelboxes

| ITEM NO. | PART NUMBER | DESCRIPTION | COUPE/QTY. |
|----------|-------------|-----------------------|------------|
| 1 | 11278 | WHEELBOX | 1 |
| 2 | WIPER NUT | WHEELBOX NUT | 1 |
| 3 | 60524 | 0.50" SPACER | 1 |
| 4 | 60568 | 0.062" STAINLESS SHIM | 1 |



Slide the metal spacer onto the wheel box and then slide the wheelbox through the hole in the body.



Place the stainless shim on top of the body followed by the nut.

Locate the Wiper motor



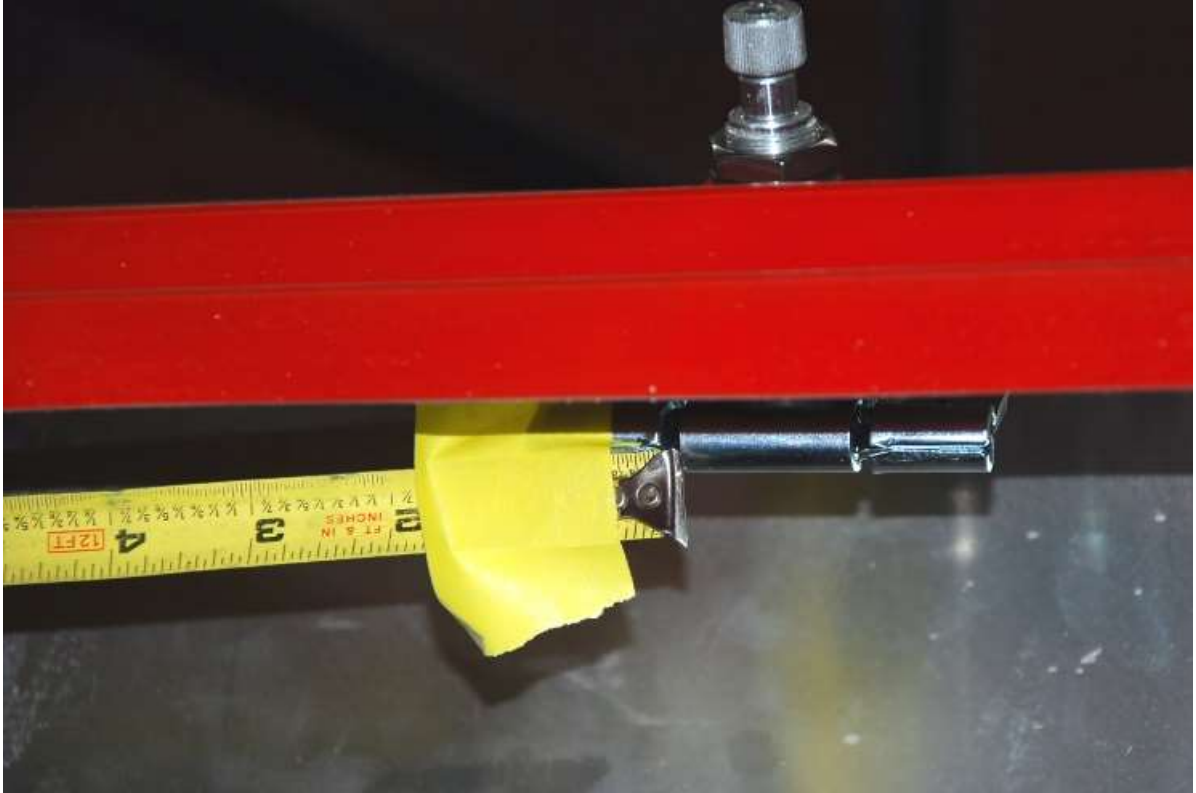
Twist the wheel boxes so that the cable mount is on the front side of the wheelbox and they are in line with each other and are pointing towards the wiper motor.



Using the wiper cable as a guide, locate the motor mounting location on the right side of the footbox so that the curve is easy or so that it is on the outside of the heater controls if being installed.

Mark the footbox top for the wiper motor with the cable pointing up toward the wheel boxes. Drill and mount the wiper motor with the clamp provided.

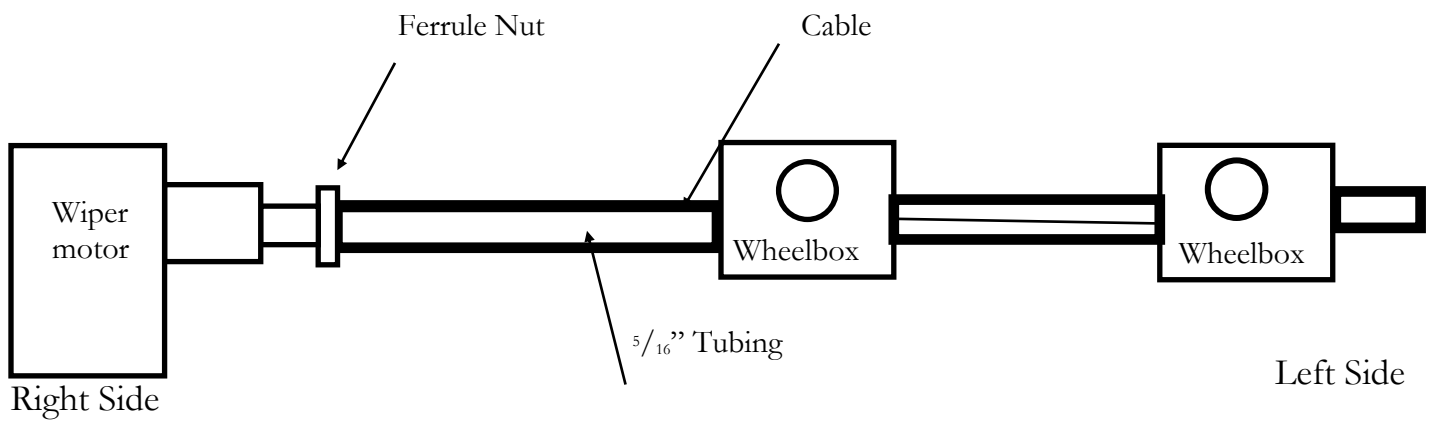
Drive cable tubing



Tape one end of a tape measure to the left wheelbox inside cut area as shown.



Curve the tape measure if necessary so that the tape measure is at the same angle the tubing will be compared to the wheelbox and measure to the inside of the right wheelbox. The picture shows in this case this would be 21”.





Place the Ferrule nut on one of the tubes.



Bend the tube so that the tube will smoothly go up to the first wheelbox.



Insert the wiper drive cable into the tube with the ferrule on from the flared tube end and slide the tube down to the motor and attach the nut to the motor.

Aim the tube so that it goes next to the wheelbox.



Mark the tube at the point shown. This is where the flare will need to start.

On your flaring tool find the extra length needed to form the flare.

Remove the tube from the motor and mark the tube with the extra flare length.

Cut the tubing on the unflared end to the length required.

Flare the end of the tube.

Reattach the tube to the motor and attach the other end to the wheelbox.

Put a slight bend in the remaining tube to match the radius of the body between the wheelboxes.

Insert the end of the cable into the flared end of the remaining tube and slide the tube down to the wheelbox.



Attach the flared end to the wheel box so now the wheelbox looks like the picture above.

Mark the tube the same way the first tube was marked.

Remove the tube from the wheelbox and mark the tube with the extra flare length.

Cut the tubing on the unflared end to the length required.

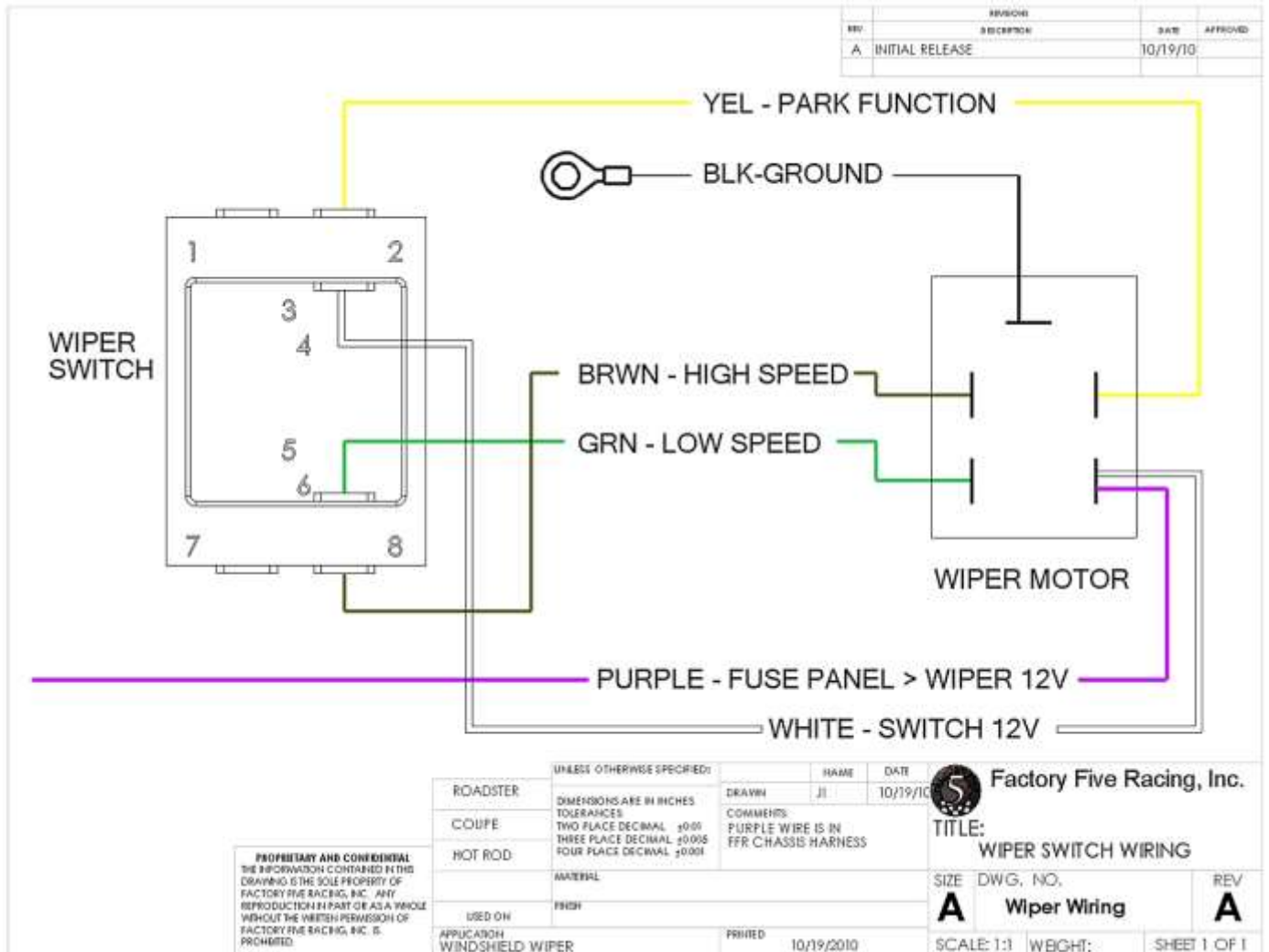
Flare the end of the tube.

Flare the end of a short piece of tubing so that it is approximately 4" long.

Apply chassis grease to the wiper drive cable.

Install the tubes with a 4" section on the far side of the second wheelbox so that the cable is always covered.

Wiring



The wiper motor included in the kit has two speeds. Use the wiring diagram to wire the switch and motor together..

- 👉 If using a Mustang harness, connect the “WIPER 12V” to the Mustang wiper power in the fuse panel otherwise connect to the chassis harness wiper wire.
- 👉 At 12 volts, the low speed uses 1.5 amps and the high speed uses 2.0 amps.

Test run the motor without blades in low, high and park. Make sure the wheelboxes are turning the correct direction when starting from the parked position. If they are not, take the back cover off the wheelbox, remove the tubes and cable, loosen the wheelbox nut and turn the wheelbox around then reinstall the cable and tubes.

Remove the cover of the left side wheelbox (furthest from the motor).

With the motor parked, use a pair of wire cutters or a cut off wheel to cut the wiper cable so that it extends into the short tube section 0.50”.

Reattach the wheelbox cover.

Wiper arms/blades

Adjust the length of the wiper arms so that measuring from the center of the arm mount to the center of the blade mount the left arm is 12" long and the right arm is 11" long.

Attach the wiper blades to the wiper arms.

With the motor in the park position, push the wiper arms onto the wheelboxes so the blades are just on the glass at the bottom.

Spray some water on the windshield and on the slow speed, test the wipers.