

Mighty Wiper

Installation... Quick and easy... We suggest you try our way first.

The compact size of the **Mighty Wiper** motor makes it a quick and easy installation for hot rods. The Mighty Wiper is designed for small windshields and rain only; not snow, sleet, or mud.

Please familiarize yourself with the instructions. **NEVER MOVE THE ARM AND BLADE BY HAND.**

The Mighty Wiper works best when used with a simple toggle switch

The Mighty Wiper is not self parking. If you want it to park to the right, turn it off when it gets there.

If you want it to park to the left, turn it off when it gets there. It's that easy.

You will need to run the Mighty Wiper with a zip tie in place of arm/blade first to determine where you want it to park. You can then install your arm/blade, positioning as desired.

WIPER MOUNTING

To install the new **MIGHTY WIPER**, remove the old blade, arm and motor. Most original cars have mounting bezels that fit against both sides of the sheet metal where the wiper shaft goes through the cowl or the header above the windshield. These bezels are shaped to the curvature of the body and allow the shaft to mount through the body at the correct angle (90°) to the windshield surface. If you can use these bezels, simply install the **MIGHTY WIPER** in place of the old unit. In some cases, the **MIGHTY WIPER** shaft diameter is too large. If possible, drill the bezels to fit the shaft.

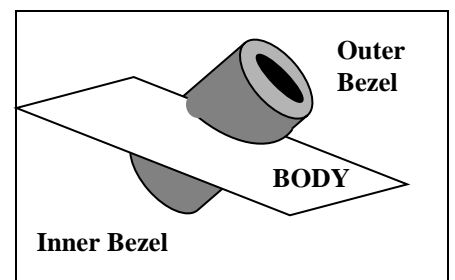
You should have 1/2" of threads showing on the outside of the car, in front of the windshield before the bezel and nut is installed for proper installation.

BEZEL PREPARATION

In order for the blade to work correctly, the motor shaft **must be perpendicular to the glass**. If the original bezels cannot be used, or you want a custom look, fabricate bezels using the drilled round aluminum stock supplied with the kit. Round off one end to form the front of the outer bezel. Then use a hack saw to cut the round stock at an angle which fits against the body, so that the motor shaft will be perpendicular to the glass surface.

Carefully file the angled surface to fit the contour of the car's sheet metal. Trial fit the outer bezel, then file a little more for final fit. When you are satisfied, sand it smooth with #600 paper and polish it with metal polish for a high luster. Clear coat with spray lacquer.

Next, fabricate an inner bezel from the remaining round stock. Use the angle cut against the inside of the body. This will sandwich the body between the bezels and create a secure mounting for the wiper motor. See diagram. The other end of the inner bezel, cut off square, goes against the **MIGHTY WIPER** motor's inner adjusting nut on the wiper shaft. When you are satisfied with the bezels, cut a gasket to fit between the outer bezel and the sheet metal. This seals the hole, and protects the paint. Another gasket between the inner bezel and the body reduces noise transfer. RTV may also be used. Do not overtighten the mounting nuts as the tube can be stretched causing excessive drag on the motor. **Do not loosen the nut which secures the shaft tube to the base, as this nut is used for adjusting the end play of the pivot post.**



WIRING

Once the MIGHTY WIPER is mounted, the next step is wiring. See wiring diagram. Please use a simple toggle switch to operate (NO rotary or push/pull switches recommended). ***Important: Fuse This Circuit With A One Amp Fuse Only! If running 2 motors you will need 2 switches. The motors will never stay in sync as each motor can run at a very slightly different speed.***

PLEASE NOTE: This unit is designed for compact installation, requiring short arm(s) and blade(s). We recommend the lightweight stainless steel arms and blades, not the aluminum aftermarkets, as they are too heavy and may cause motor failure. 9" inch arm and 8 1/4 inch blade are the longest we recommend.

Overall length of arm and blade should not exceed 12 1/4"

WIPER ARM AND BLADE INSTALLATION AND TESTING

PLEASE NOTE:

Taper shaft arms have a hole in the end of the arm and are secured with a special nut on the motor shaft. They are made to fit on the taper shaft of the motor even though they might not look like it. Hold the arm firmly and tighten the mounting nut.

With the motor installed, and using a zip tie on the shaft, park it the direction you want. Turn off the motor so that it is fully parked, then attach the arm and blade to the shaft. Hold arm firmly when tightening or attaching nut.

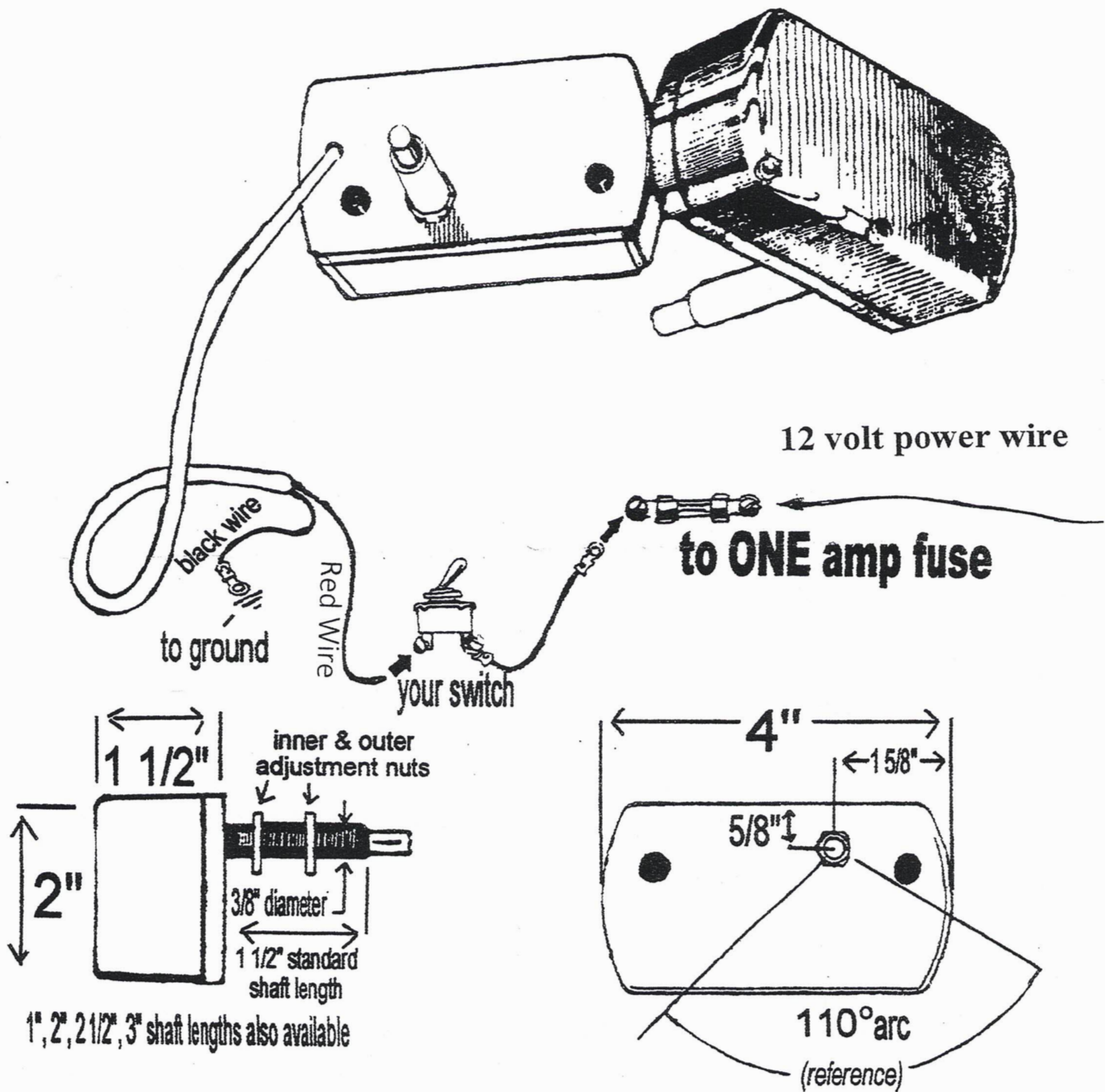
Wet the windshield **with water only**. Check the tension of the arm- it must have enough tension so that high speed wind gusts will not catch it, have enough tension so that the blade can roll over and act like a squeegee first in one direction and then the other, but not so much tension so that it will roll over and scrape the edge of the blade or otherwise create an excessive load. If, upon operation, you are blowing fuses, this means you have too much load. To correct this, the wiper arm must be further away from the glass. Now turn the wiper on and off a few times.

The new MIGHTY WIPER should work great, but the arm may need a final adjustment to get the sweep you want. Do this in the conventional way by loosening the nut, popping the arm up off of the shaft, and slightly rotating the arm to the desired location. Hold onto the arm tightly when tightening the nut. DO NOT rotate motor. With this done, all you need is a good rainstorm!

Do Not remove the black cap and attempt any adjustments. This will void the warranty unless authorized by Raingear. Tolerances are set up prior to shipment, and must be maintained at factory specs in order for the Mighty Wiper to function properly. Removal of the cap will void your warranty.

If you have any questions, please give us a call at 541-895-2566

MIGHTY WIPER Installation Schematic



The Mighty Wiper has no top or bottom mount as desired