

STD Wiper Motor Windshield Frame Mount Installation Instructions

PLEASE READ THROUGH ALL INSTRUCTIONS PRIOR TO INSTALLATION

This motor is not waterproof and should be installed in a protected area away from moisture and water spray.

Tools required for installation and/or adjustment:

- Phillips head screwdriver
- Small flat blade screwdriver
- #8 self-tapping screw (1)
- Drill
- 7/16" drill bit
- 9/64" drill bit
- 14 mm or small adjustable wrench

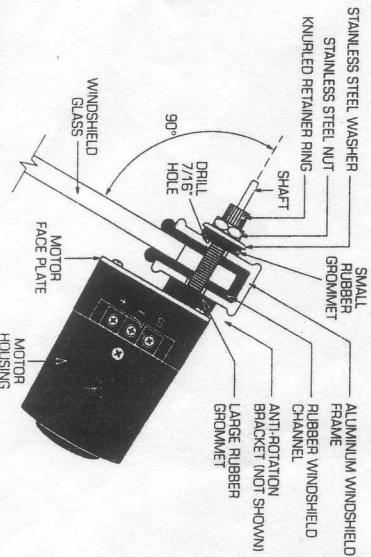
INSTALLATION:

Note: This wiper motor is intended for use with wiper arm/blade combinations no larger than 14" x 14".

1. This wiper motor can be mounted above or below the windshield. Make sure that the installation location you have selected will provide ample clearance for the sweep of the wiper blade and arm. For optimum performance, mount the wiper motor shaft at a 90° angle to the windshield. This will minimize strain on the wiper motor.

2. Drill the shaft mounting hole in the location you have selected. Use a 7/16" drill for the 3/8" diameter shaft.

3. Remove the knurled retainer ring, stainless steel nut and washer and smaller rubber grommet from the shaft. Mount the motor in the windshield frame with the large grommet on the inside of

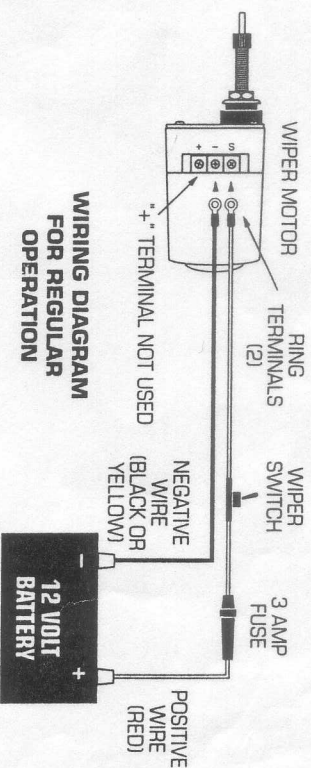


the frame. Place the small grommet over the shaft on the outside of the frame followed by the washer and nut. Use a 14 mm or small adjustable wrench to tighten the nut snugly. Do not over-tighten. Install the knurled retainer ring. Be sure the rubber grommets are on both sides of the frame.

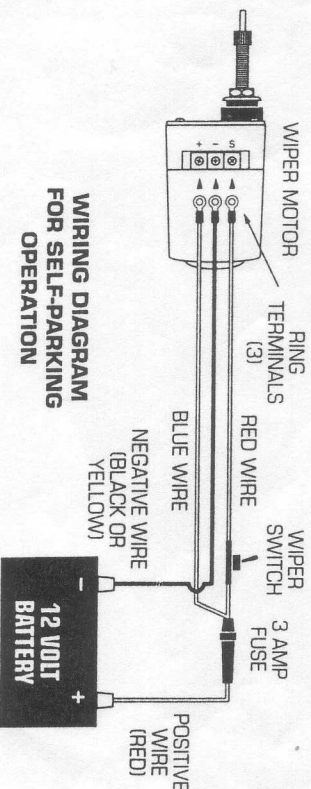
4. Mark the desired hole position of the anti-rotation bracket and drill a 9/64" hole. Use a #8 self-tapping screw (not provided) to attach to most aluminum frames.

WIRING:

This motor has three connections, negative (-), positive (+), and switch (S) marked on the side of the motor housing. Use black or yellow wire for the negative connection, blue wire for the positive connection and red wire for the switch connection. 16 gauge stranded wire is recommended. This motor can be wired for regular operation or self-parking operation. Refer to the wiring diagram for proper installation. We strongly recommend that a 3 amp fuse be used to insure safe and reliable operation.



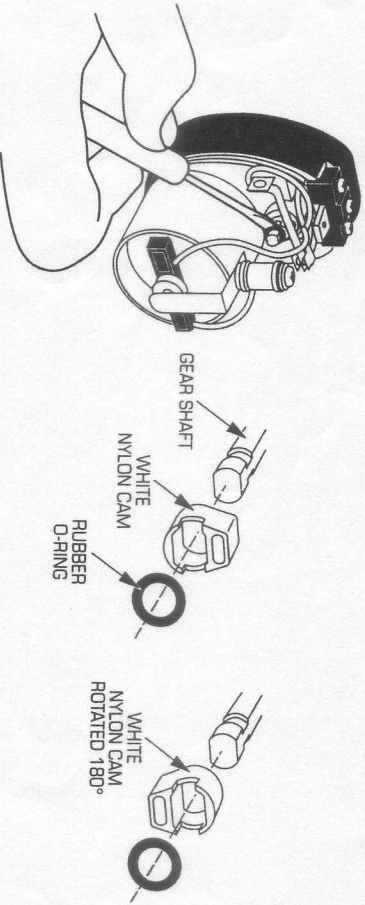
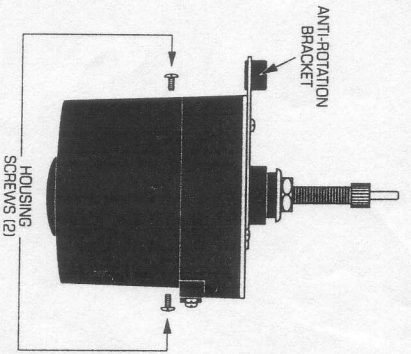
WIRING DIAGRAM FOR REGULAR OPERATION



WIRING DIAGRAM FOR SELF-PARKING OPERATION

CHANGING THE PARKING POSITION:

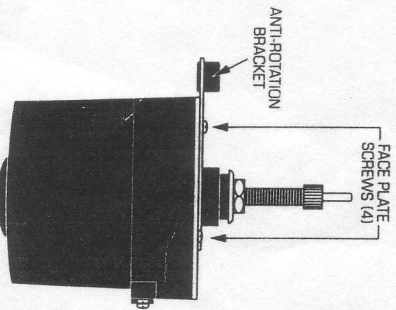
1. Use a Phillips head screwdriver to remove the two motor housing screws located on the sides of the motor housing. Pull off the motor housing.
2. Use a small flat blade screwdriver to carefully remove the o-ring and white nylon cam from the gear shaft. Rotate the white cam 180° from the original position and reinstall it back onto the gear shaft. Be sure that the cam is pushed all the way back onto the gear shaft and the o-ring is properly seated in place.



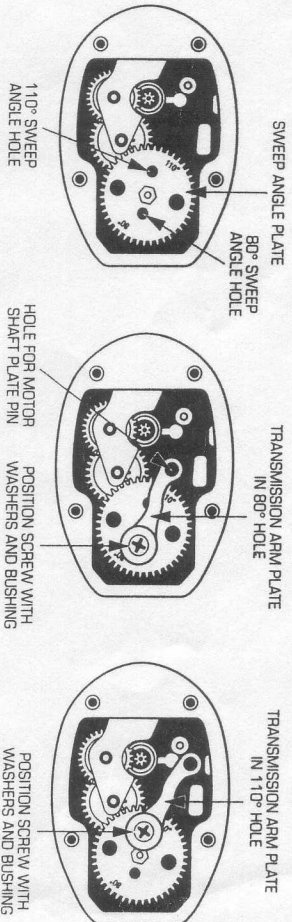
3. Re-install the motor housing back onto the motor and replace the two Phillips head motor housing screws.

CHANGING THE WIPING ANGLE:

1. Use a Phillips head screwdriver to remove the 4 wiper motor face plate screws.
2. Remove the wiper motor face plate by pulling the motor shaft straight up.

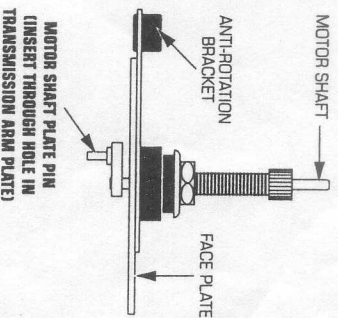


3. Use a Phillips head screwdriver to remove the position screw from the transmission arm plate. Be careful not to lose the position screw bushing and washers.



4. Relocate the transmission arm plate to the desired sweep angle hole on the round sweep angle plate. The sweep angles are stamped onto the sweep angle plate. Re-install the transmission arm plate on to the sweep angle plate with the position screw. Be sure the position screw bushing is installed inside the transmission arm plate and washers are on both sides of the transmission arm plate. Do not over-tighten the position screw.

5. Insert the wiper motor shaft plate pin back into the hole on the end of the transmission arm plate. It may be necessary to rotate the motor shaft to get the pin to properly align in the transmission arm plate. Re-attach the wiper motor face plate to the motor body with the 4 Phillips head screws.



Note:

After changing the wiping angle, the wiper motor parking position will automatically change to the opposite side. If necessary, readjust the parking position as described in the "Changing Parking Position" instructions.

TROUBLESHOOTING:

If motor does not operate, double check wiring connections and 3A fuse.



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