SEAFLO®

Wiper Motor 6Nm 01 Series

Instructions



SEAFLO®

Please read all instructions carefully before beginning installation to ensure proper setup and safe operation.

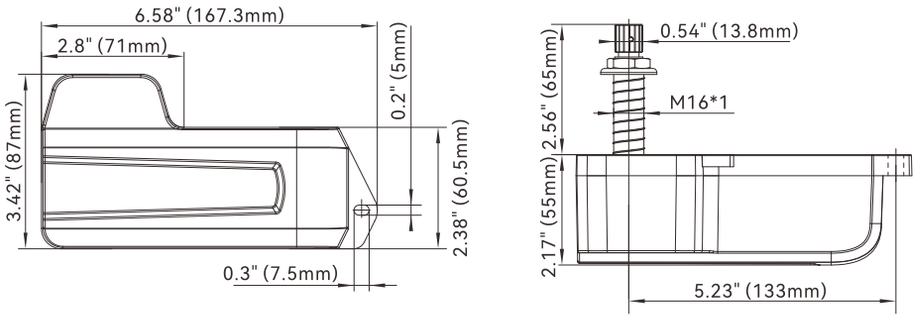
FEATURES & BENEFITS

- 6 Nm torque, self-parking
- Adjustable sweep angles: 50°, 65°, 80°, 110°
- UV- and high-temperature-resistant thermoplastic housing
- Powers arm/blade combinations up to 440 mm / 355 mm
- Stainless steel driveshaft with anti-rotation design
- Self-parking position adjustable to the left or right

TECHNICAL SPECIFICATIONS

Model	Voltage	Max Current	Torque	Shaft Length	Sweep Angles	Sweep Speed	Fuse
SFWM1-0664-01	12V	2.5A	6 Nm	64mm / 2.5″	50°, 65° 80°, 110°	45 sweeps/min	5A
SFWM2-0664-01	24V	1.2A					3A

DIMENSIONAL DRAWING



TOOLS REQUIRED FOR INSTALLATION

User-supplied electrical components:

- On/Off switch (minimum 5 amp rating)
- 16-gauge wire

Basic tools:

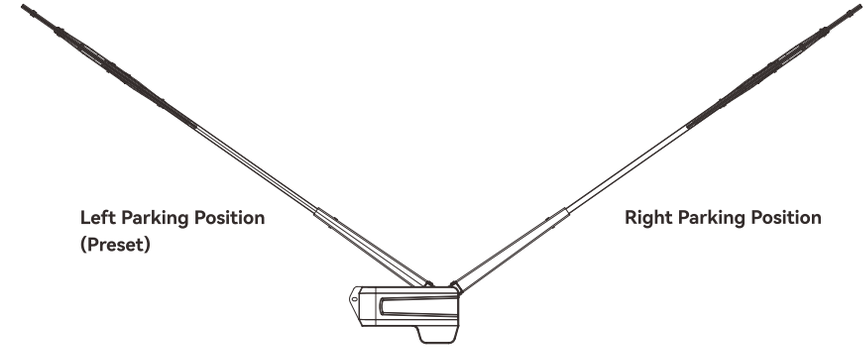
- Electric drill
- Drill bits set:
  5/8" (16mm) drill bit (for motor shaft hole)
  7/32" (5.5mm) drill bit (for through-hole mounting)
  5/32" (4mm)drill bit (for self-tapping screw mounting)
- 1/2" round file
- 3/4" (19mm) open-end box wrench
- Phillips head screwdriver
- Safety glasses
- Measuring tape

Optional tools:

- Marine-grade caulk or silicone
- 5 amp (minimum) diode (for two motors with one switch configuration)

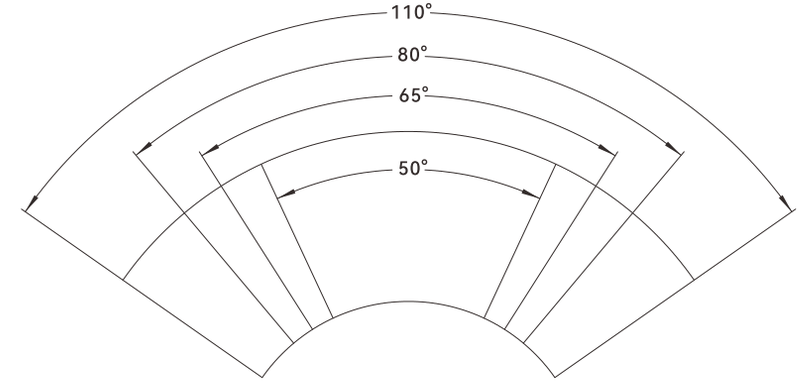
PARKING POSITION ADJUSTMENT OPTIONS

Factory preset to left parking position with a sweep angle of 80°



Shaft side of motor facing away from you

SWEEP ADJUSTMENT OPTIONS

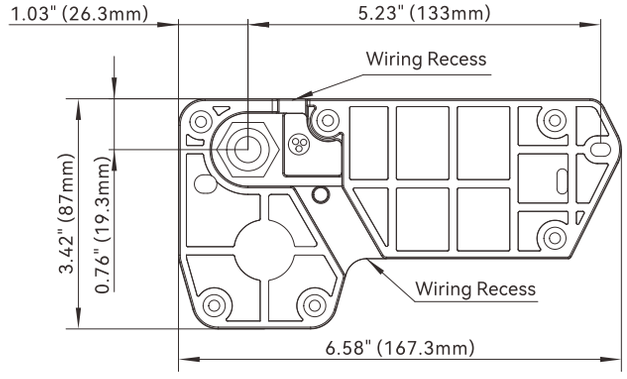


INSTALLATION AND WIRING INSTRUCTIONS

Note: Please read all instructions before beginning.

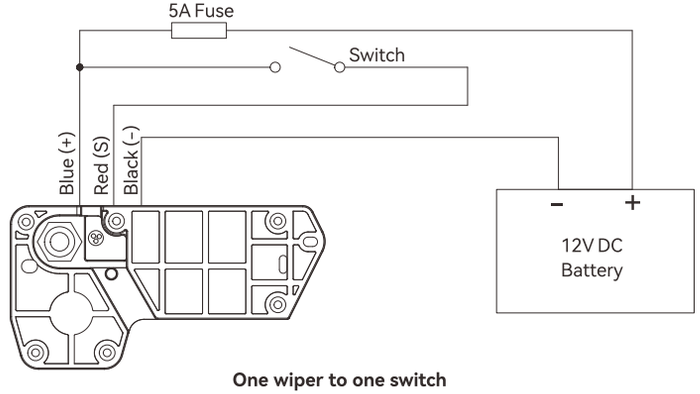
Installation Precautions

1. The wiper motor should be mounted on a flat surface. Failure to do so may result in the motor housing cracking during installation.
2. For optimal performance, ensure the wiper shaft is positioned at a 90° angle to the windshield.
3. The wiper blade and arm should be installed with a minimum clearance of 1 inch (25.4mm) from the windshield frame. Briefly activate the motor to ensure that the wiper blade does not strike the windshield frame at either end of its wiping arc. If the wiper blade strikes at both ends, it will be necessary to shorten the arm and/or blade length.

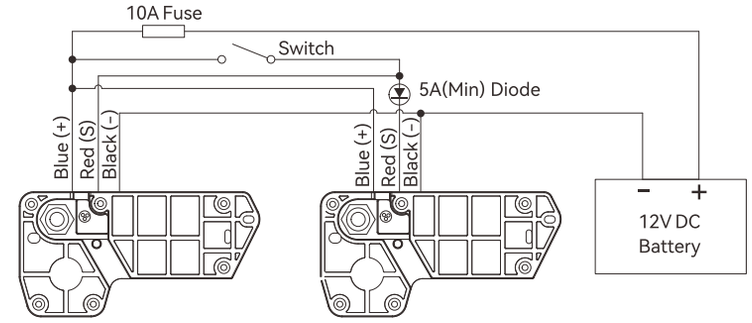


Installation and Wiring

1. **Determine the motor mounting position:** Choose a flat area with adequate space and clearance for installing the wiper motor.
2. **Mark the position for the motor shaft and drill the hole:** Use a 5/8" (16mm) drill bit to drill a hole for the motor shaft. If the hole is not large enough, you may need to slightly enlarge it with a file to ensure proper installation.
3. **Install the motor shaft:** Remove the attaching nut and washers from the motor shaft. Pass the shaft through the hole and mark the location for the mounting bracket screw. Use a 7/32" (5.5mm) drill bit for through-hole mounting or a 5/32" (4mm) drill bit for self-tapping screw installation. A #10 size screw is recommended.
4. **Wiring:** Connect the wires to the wiper motor as shown in the wiring diagram below. To prevent corrosion, the wiring cavity should be filled with marine-grade silicone or caulk.
5. **Install the wiper motor:** First, place the rubber washer on the motor shaft, followed by the stainless steel washer, and then the brass shaft nut. The nut should be tightened to 30 to 45 in-lbs.
6. **Install the mounting bracket screws:** Install the mounting bracket screws and tighten them to no more than 15 in-lbs. Do not overtighten.
7. **Install the wiper blade and arm:** Attach the wiper blade to the arm, then install the arm onto the motor shaft.



One wiper to one switch



Two wipers to one switch

Changing the Wiping Angle

Procedure:

1. Turn the wiper switch on and then off to allow the wiper motor to return to its parked position.
   Warning: The wiper should automatically return to the parked position (either left or right) after being turned off. If it does not park, the wiring may be incorrect. Please check the wiring diagram.
2. Remove the wiper arm and blade, then remove the wiper motor from its mounting position.
3. Use a screwdriver to remove the six cover mounting screws securing the wiper motor cover.
4. Wiping angle choices are: 50°, 65°, 80°, and 110°. Remove the circlip from the transmission plate. Use a screwdriver to remove the position screw, then remove the two sweep angle screws.

   Note:
   Make sure the shaft plate remains in the position shown in the diagram. Do not allow the wiper shaft plate to rotate 180° out of position. If the wiper shaft plate rotates out of position, the wiper motor may fail.
5. Rotate the sweep angle plate (see the parking diagrams):
   - For left-side parking, rotate the desired angle hole to the "6 o'clock" position.
   - For right-side parking, rotate the desired angle hole to the "12 o'clock" position.
     Reinstall the two sweep angle screws and secure the position screw into the correct angle hole. Tighten all screws to prevent loosening.
   - Reinstall the circlip.
6. Reinstall the wiper motor cover:
   - Ensure the gasket is properly seated in the channel of the motor base and the O-rings are still on the screws.
   - Tighten the screws evenly and do not overtighten, to maintain a watertight seal.
   - The motor cover should sit flush with the base.
7. Remount the wiper motor. Before reattaching the wiper arm, turn the motor on and observe its operation. Confirm that the wiper moves through the correct sweep angle and parks in the correct position. Failure to do so could cause damage to the wiper motor. After everything checks out properly, reinstall the wiper arm and blade.

Changing Parking Position

Procedure:

1. Remove the wiper motor cover as described in "Changing The Wiping Angle."
2. Note the current wiping angle inscribed on the sweep angle plate. Remove the circlip from the transmission plate, followed by the position screw and the two sweep angle screws.
3. Rotate the sweep angle plate 180°.

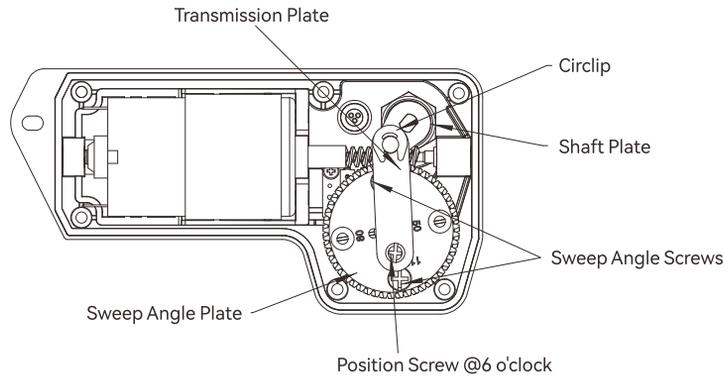
   Note:

   Depending on the original parking position (left or right), the position screw may originally be in the "6 o'clock" or "12 o'clock" position. To return the transmission plate to the original hole, move it to the opposite end of its travel (see the parking diagrams below).
4. Reinstall the two sweep angle screws. Reinstall the position screw into the same sweep angle hole from which it was removed. Reinstall the circlip. This completes the adjustments for left or right parking.

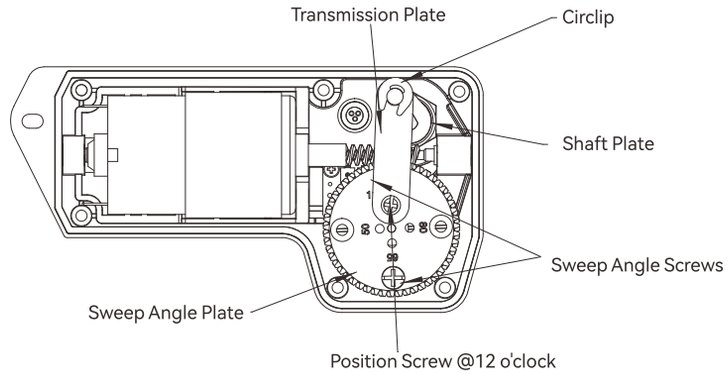
   Note:

   If the position screw is installed in any other angle hole, the parking position will be incorrect.
   If you wish to adjust the wiping angle, refer to the "Changing the Wiping Angle" section.
   Reinstall the wiper motor cover as described in the "Changing the Wiping Angle" section.

110° Sweep angle in LEFT park position



110° Sweep angle in RIGHT park position

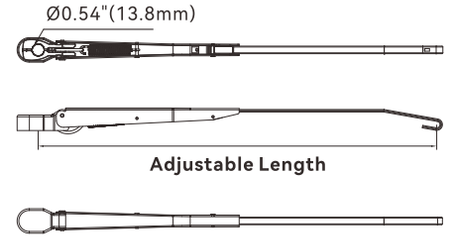


CARE AND MAINTENANCE

Although SEAFLO wiper motors are made of UV- and chemical-resistant materials, periodic cleaning of the housing with mild soap and water is recommended to remove corrosive contaminants.

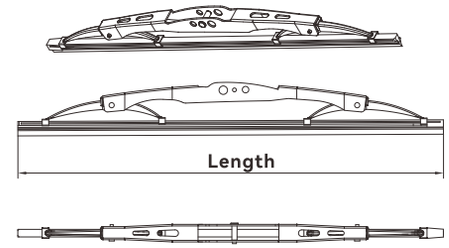
OPTIONAL

Wiper Arm 01 Series - Standard



Adjustable Length:
12"–17" / 310–440mm
Type:
J-hook standard model
Material:
316 Stainless Steel

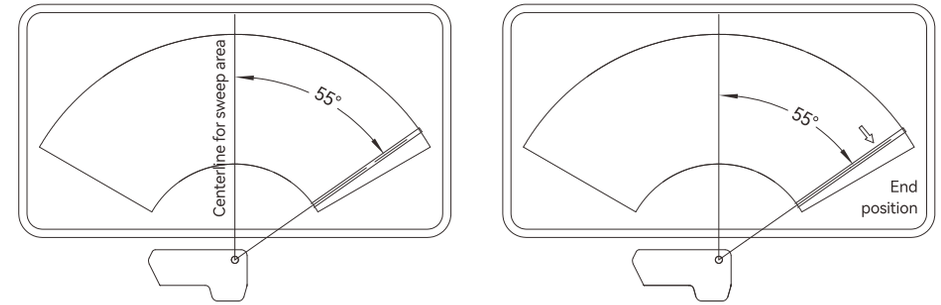
Wiper Blade 01 Series



Length:
11" / 280mm 12" / 305mm
13" / 330mm 14" / 355mm
Connection Type:
Replaceable connector type
Material:
Iron / Rubber

INSTALLATION DIAGRAM

Standard arm



Shaft side of motor facing you