

SEAFLO[®]

Wiper Motor 10Nm 01 Series Instructions



SEAFLO[®]

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

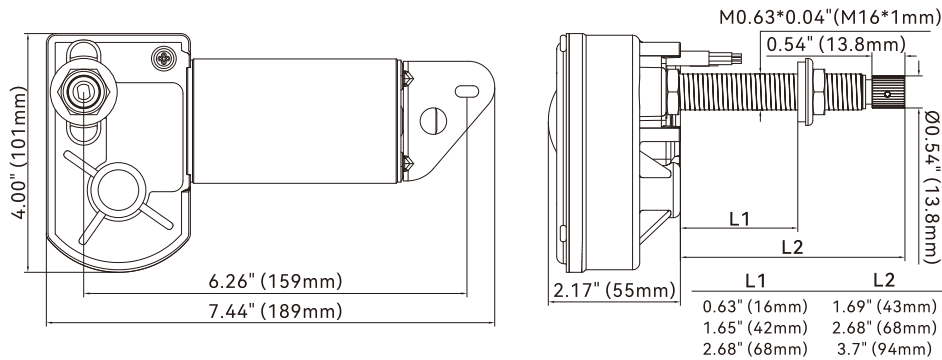
FEATURES & BENEFITS

- 10 Nm torque
- 2-speed, self-parking
- Driveshaft in stainless steel
- EMC protected
- Three sweep angle types with multi-level adjustability
- Parking position adjustable to the left or right side
- Insulated ground for metal, plastic, and wooden boats
- Powers arm/blade combinations up to 610mm / 560 mm

TECHNICAL SPECIFICATIONS

Model	Voltage	Max Current	Torque	Shaft Length	High Speed	Low Speed	Fuse
SFWM1-1043-01	12V	4A	10 Nm	43mm / 1.69"	55 sweeps/min	35 sweeps/min	5A
SFWM2-1043-01	24V	2A					3A
SFWM1-1068-01	12V	4A		68mm / 2.68"			5A
SFWM2-1068-01	24V	2A					3A
SFWM1-1094-01	12V	4A		94mm / 3.70"			5A
SFWM2-1094-01	24V	2A					3A

DIMENSIONAL DRAWING



TOOLS REQUIRED FOR INSTALLATION

User-supplied electrical components:

- On/Off switch (minimum 5 amp rating)

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)
 - 1/8" (3.3mm) drill bit (for self-tapping screw mounting)

- 16-gauge wire

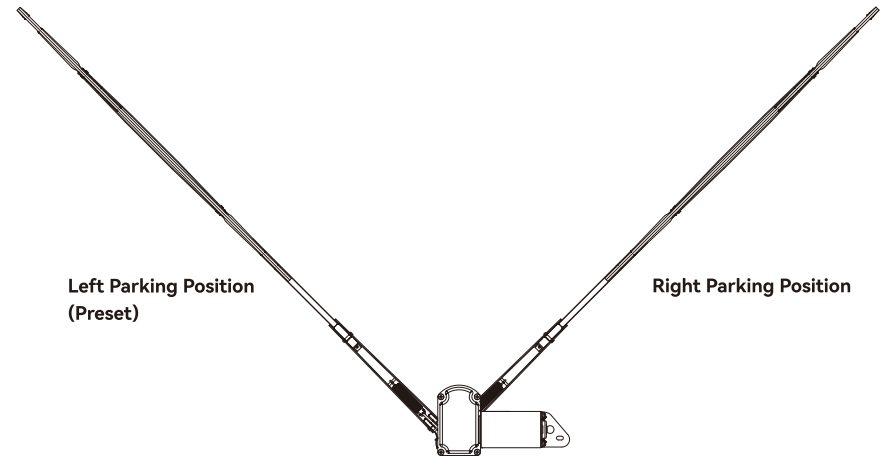
- 1/2" round file
- 3/4" (19mm) open-end box wrench
- Phillips head screwdriver
- Safety glasses
- Measuring tape

Optional tools:

- Marine-grade caulk or silicone

PARKING POSITION ADJUSTMENT OPTIONS

Factory preset to left parking position



Shaft side of motor facing away from you

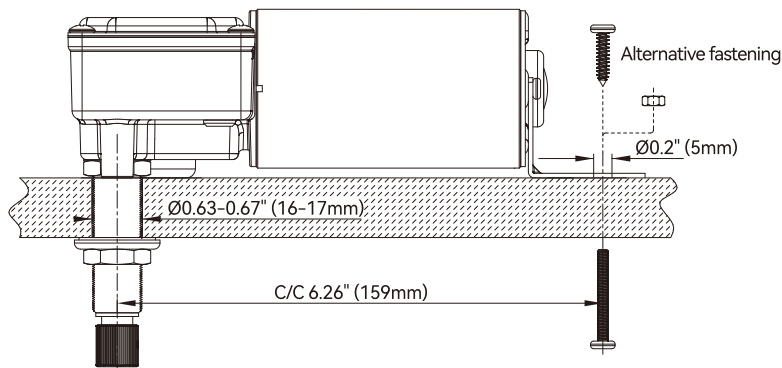
Wiper Motor 10Nm 01 Series	Preset Angle	Preset Park Position
Type I (Sweep Angles: 40°, 45°, 50°, 55°)	45°	Left
Type II (Sweep Angles: 60°, 70°, 80°, 90°)	60°	Left
Type III (Sweep Angles: 83°, 100°, 110°, 120°)	110°	Left

INSTALLATION AND WIRING INSTRUCTIONS

Note: Please read all instructions before beginning.

Installation Precautions

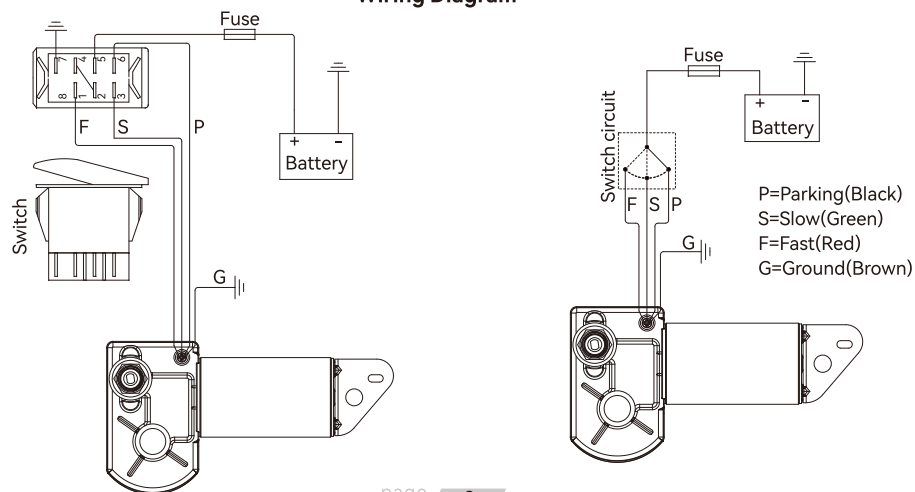
1. The wiper motor should be mounted on a flat surface. Failure to do so may result in the motor housing cracking during installation.
2. For optimal performance, ensure the wiper shaft is positioned at a 90° angle to the windshield.
3. The wiper blade and arm should be installed with a minimum clearance 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.
4. Don't mix up the centerline of the sweep area with the centerline of the windshield. The centerline is needed to find the correct position of the wiper arm on the windshield. Find the centerline of the sweep area.



Installation and Wiring

- Determine the motor mounting position:** Choose a flat area with adequate space and clearance for installing the wiper motor.
- 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.
- Install the motor shaft:** Remove the attaching nut, stainless steel washer, and rubber 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 1/8" (3.3mm) drill bit for self-tapping screw installation. A #10 size screw is recommended.
- 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.
- Install the wiper motor:** First, place the rubber washer on the motor shaft, followed by the stainless steel washer, and then the attaching nut. The nut should be tightened to 30 to 45 in-lbs.
- Install the mounting bracket screws:** Install the mounting bracket screws and tighten them to no more than 15 in-lbs. Do not overtighten.
- Install the wiper blade and arm:** Attach the wiper blade to the arm, then install the arm onto the motor shaft.

Wiring Diagram

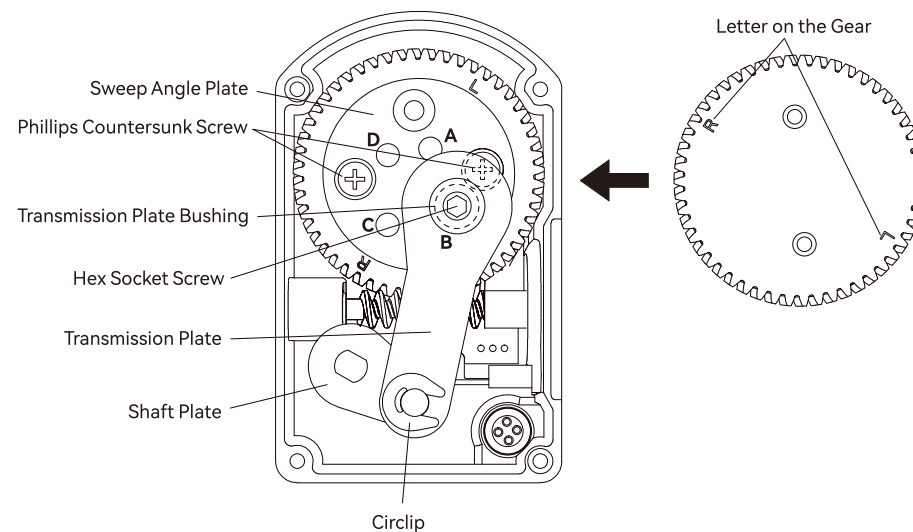


Changing the Wiping Angle and Parking Position

Note: Ensure the wiper motor is in the parked position and the battery main switch is turned off before performing any operation inside the motor.

- Remove the wiper arm.
- Remove the gearbox cover.
- Remove the circlip.
- Loosen the hex socket screw and remove the transmission plate.
- Loosen the two Phillips countersunk screws securing the sweep angle plate.
- Rotate the sweep angle plate and align the desired degree with the letter on the gear:
 - "L" for the left parking position.
 - "R" for the right parking position.
- Retighten the two Phillips countersunk screws securing the sweep angle plate.
- Reconnect the transmission plate to the shaft plate and secure it with the circlip.
- Insert the hex socket screw through the transmission plate and the transmission plate bushing, and lock it into the hole on the sweep angle plate corresponding to the desired angle.
- Run the wiper motor to the parking position and reinstall the wiper arm.

Sweep Angles	A°	B°	C°	D°
Type I	40	45	50	55
Type II	60	70	80	90
Type III	83	100	110	120



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.

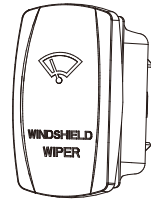
OPTIONAL

Wiper Switch

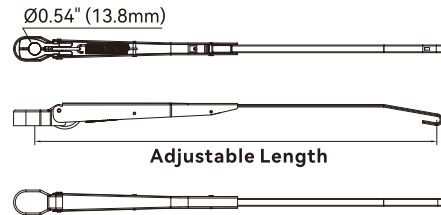
Model: SFSP-20-10

Volts: 12V & 24V

Fuse: 20A



Wiper Arm 01 Series - Standard



Adjustable Length:

12"-17" / 310-440mm

19"-24" / 480-610mm

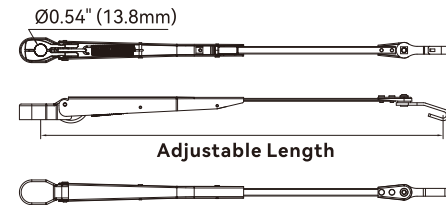
Type:

J-hook standard model

Material:

316 Stainless Steel

Wiper Arm 02 Series - Adjustable tip



Adjustable Length:

12½"-18" / 320-455mm

19"-24" / 480-610mm

Type:

Adjustable tip with J-hook

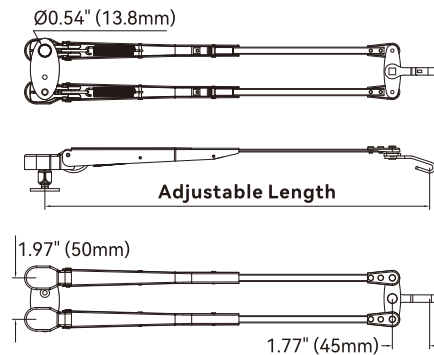
Material:

316 Stainless Steel

Adjustable Tip:

±40°

Wiper Arm 03 Series - Pantograph arm



Adjustable Length:

12½"-18" / 320-455mm

19"-24" / 480-610mm

Type:

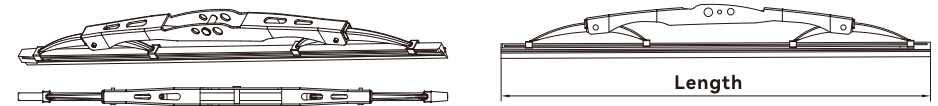
Pantograph arm with J-hook

Material:

316 Stainless Steel

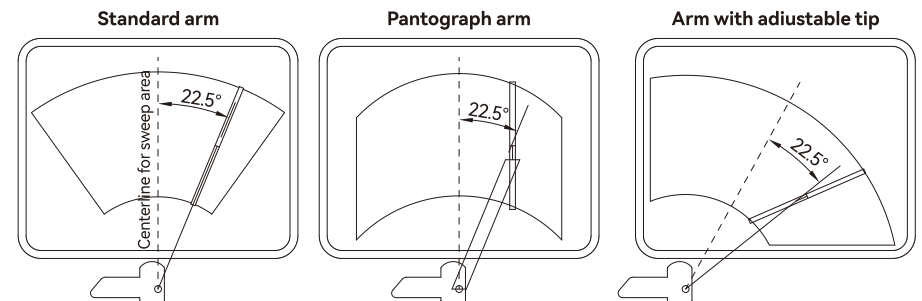
Wiper Blade 01 Series

Compatible with Wiper Arm Series 01, 02, and 03



Model	Length	Material	Connection Type
SFWB2-280-01	11" / 280mm	Iron / Rubber	Replaceable connector type
SFWB2-305-01	12" / 305mm		
SFWB2-330-01	13" / 330mm		
SFWB2-355-01	14" / 355mm		
SFWB2-380-01	15" / 380mm		
SFWB2-405-01	16" / 405mm		
SFWB2-430-01	17" / 430mm		
SFWB2-455-01	18" / 455mm		
SFWB2-480-01	19" / 480mm		
SFWB2-508-01	20" / 508mm		
SFWB2-533-01	21" / 533mm		
SFWB2-560-01	22" / 560mm		

INSTALLATION DIAGRAM



Shaft side of motor facing you