

M3 Automated Mega Shade

Installation Instructions



The SureShade® M3 automated mega shade system is an electric power-driven retractable shade featuring a self-supported stainless steel framework. The M3 features two crossbars enabling it to extend up to 10 feet.

This installation guide includes instructions for properly installing the framework and electrical components for our M3 automated shade systems.



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The SureShade as shown in Fig 1 was set to a shade width of XX" center of port actuator to center of starboard actuator as modeled in the supplied 3D engineering file.

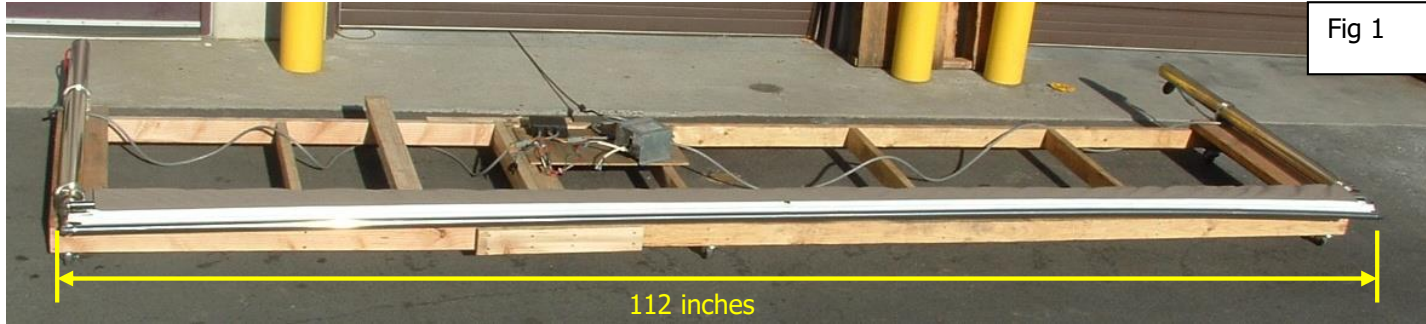


Fig 1

For proper operation, it is vital that within the hardtop cavity the actuators are installed at the specified XX" centerline width (ctr to ctr of actuators) and that the actuators are parallel to each other (Fig 2).

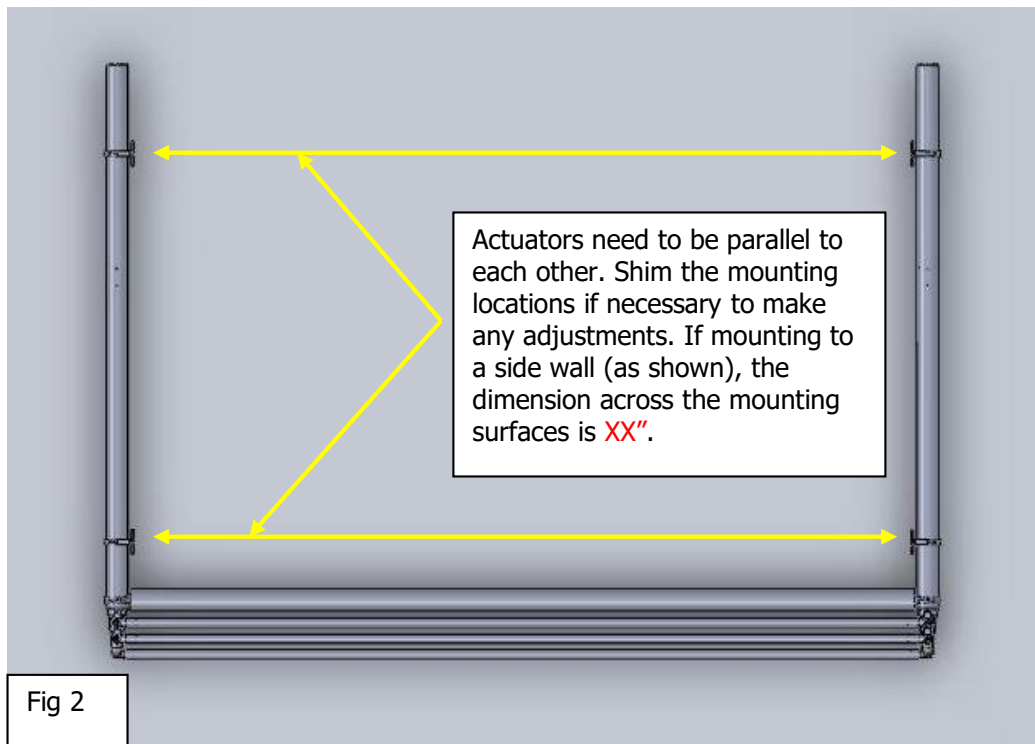
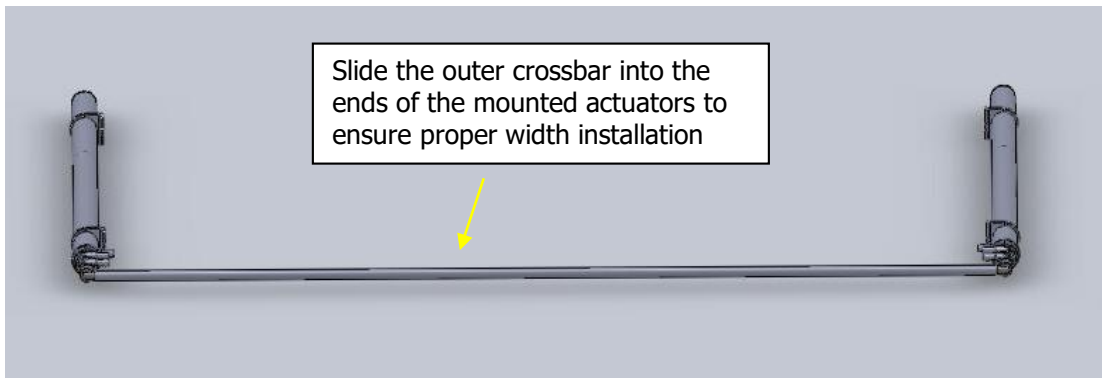


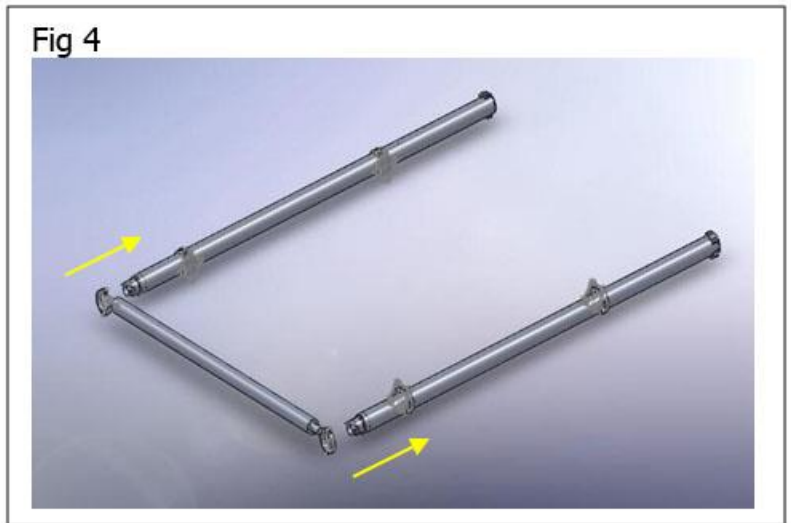
Fig 2



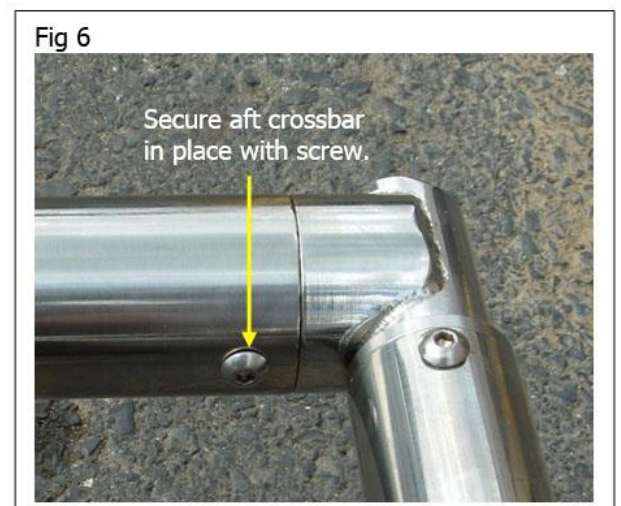
After drilling the mounting holes, thru-bolting the mounting clamps and securing the actuators in place, insert the outer crossbar into both ends of the actuators to ensure the actuators are mounted to the specified width (Fig 3). The crossbar should slide into the actuator tubes easily when mounted to the proper width.



Remove the outer crossbar after width confirmation. Slide the roller assembly onto actuators and secure in place (Fig 4).



Slide crossbars onto actuators and secure in place. **Note: Use LOCTITE on all mounting screws!**





The electrical housing is pre-wired and tested before shipping. This unit is a 12V DC system.

The electrical housing controls the retracted and extended positions as well as the synchronization of the actuators' movement. The synchronization is accomplished by sensors positioned inside the actuator that communicate with the electrical housing. These sensors, along with the housing software, will keep the two actuators synchronized within ½" of each other during travel. When an actuator gets ½" ahead of the other actuator the system will shut the faster actuator down for a split second until the slower actuator catches up and then continues movement again.

- 1) All control wires for the actuators to the controller and connection from the boat power are supplied with Deutsch connectors. Once the control wiring for the actuators is properly fed through tubing and fiberglass, connect one end of the control wire to the actuator and the other end to the electrical housing.
- 2) Connect the power source to the controller, be sure that the wires providing power to the controller are a 6-8 gauge wire. Too small of a gauge wire can drop voltage and cause an intermittent situation during travel. All fuses and switch wiring, etc should be to spec with the supplied documentation.

