

Replacement Motor Installation Instructions



Photo 1

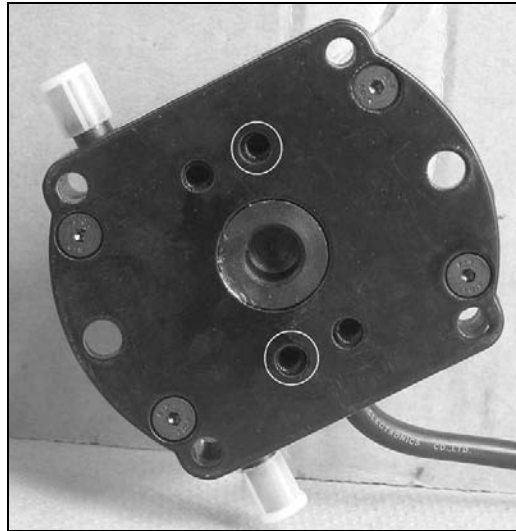


Photo 2

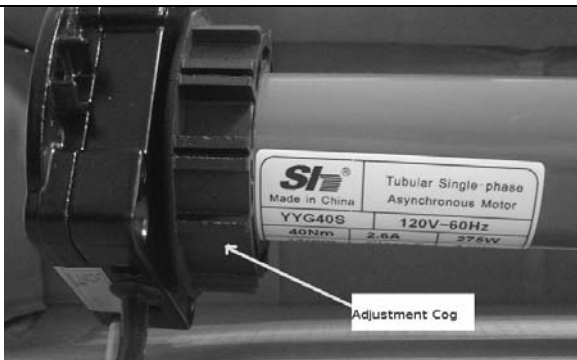


Photo 3

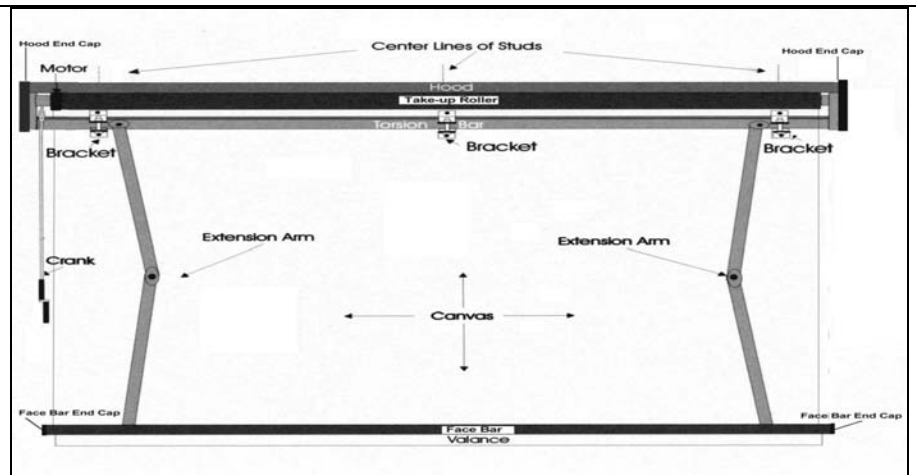


Illustration 1

Your replacement motor may appear different than the original. But the following procedure will be the same. For standard mounting (motor on left when outside facing the awning), the power-cord should exit the bottom of the unit. The correct mounting holes are shown in Photo 2 above circled in **WHITE**.

NOTE: Disconnect the Wind/Rain/Sun Sensor from the Wall Control Panel before making any adjustments.

If your awning includes a hood, the top crank connection will tuck into the rear top corner of the hood.

- Awning extension is adjusted using the screw located in the bottom **RED** adjustment hole, Turn the screw in the **+** direction to increase the extension travel distance and turn the screw in the **-** direction to decrease the extension travel distance.
- Awning retraction is adjusted using the screw located in the bottom **BLACK** adjustment hole, Turn the screw in the **+** direction to increase the retraction travel distance and turn the screw in the **-** direction to decrease the retraction travel distance.

Please note that the maximum retraction **MUST** be set with the front bar at least 2 inches from the motor housing. If your awning includes a hood, the front bar should not retract under the hood. The design is for the front bar to just meet the hood.

Refer to the description and photos above as needed during the installation of the new motor.

When installing the replacement motor, carefully adhere to the following steps

The awning must be fully extended. Extend the awning and remove the power cord from the wall receptacle and disconnect the motor wires from the Wall Control Panel.

Also disconnect the Wind/Rain/Sun Sensor from the Wall Control Panel before making any adjustments.

- 1.) Using the hand crank, if needed, extend the awning until all the material is off the Take-Up Roller and no tension is on the fabric (see Photo "A").



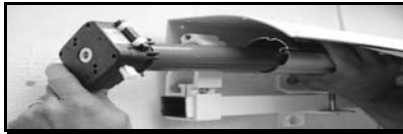
"A"

- 2.) Remove the two motor mount allen head screws from the side bracket (see Photo "B"), holding onto the Take-Up Roller to prevent the assembly from rolling down the arms.



"B"

- 3.) The motor can now be removed (pulled out of) from the Take-Up Roller (see Photo "C").



"C"

- 4.) Your new motor may not have the needed awning cogs. Motors ship with black cogs, one at each end of the motor. If needed remove the end clip and replace the two cogs with the ones from your original awning (see Photos "D" & "E").



"D"



"E"

- 5.) Take the 2 cogs and slide them onto the new motor housing (see Photo "F") and reattach the flat washer and the lock washer onto the end of the new motor's shaft (see Photo "G").

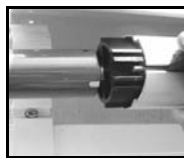


"F"



"G"

- 6.) Prior to inserting the new motor the limit switch cog must be checked. The limit switch cog is the one closest to the power cord (**See Photo 3 on the First page**). Make sure that the cog is fully seated. There is a keyway that locks the cog. Turn the cog in the direction of the awning extension until you feel a drag. For left side motors set the motor on a table with the power-cord to the left. Using your finger, on the top of the cog closest to the power cord, turn the cog toward the rear for two full turns. Next using your fingers turn the cog toward the front until you feel increased resistance. Then continue two more full turns. The motor is now ready for installation.
- 7.) Insert the motor fully into the awning Take-Up Roller. Note you will have to turn the adjustment cog slightly to fit it into the roller (see Photo "H").



"H"

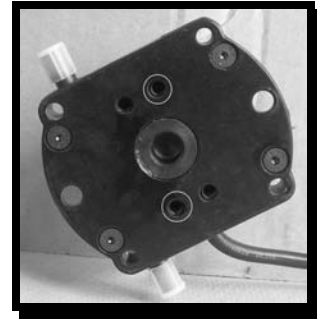
- 8.) Using the two motor mount allen head screws, you removed in Step 2, mount the motor housing to the side bracket (see Photos “I” & “J”) using the correct motor mounting holes circled in WHITE in Photo “K”



“I”



“J”



“K”

Hook up the power from the motor cable to the wall switch and re-plug the wall switch cable to the electrical wall receptacle (see Illustration “2” below)

NOTE:

- **Disconnect the Wind/Rain/Sun Sensor from the Wall Control Panel before making any adjustments.**
- **REVERSE the MOTOR CABLE’S BLACK and RED wires when connecting to the L2 and L1 terminals of the Wall Control Panel IF the motor is mounted on the RIGHT hand side when facing the awning’s mounting surface.**

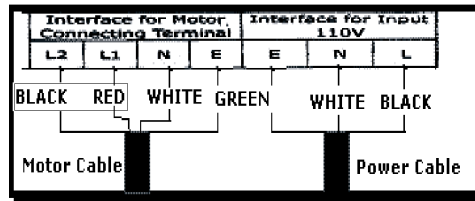


Illustration “2”

- 9.) Press the extension button on your remote. The motor should not run. If the motor runs, the procedure outlined in Step 6 above was not done correctly. Remove the motor and repeat step 6.
- 10.) Press the retraction button on the remote. Press the stop button when the awning fabric becomes taut.

NOTE (See Photo 1 on the First Page)

- **If the motor is on the Left Hand Side facing the awning’s mounting surface use the following instructions.** Turning the **RED** Limit Switch Adjustment Screw adjusts the *projection/extension* distance the awning travels and turning the **BLACK** Limit Switch Adjustment Screw adjusts the *closing/retraction* distance the awning travels. *Turning each screw in the plus (+) direction increases the travel distance and turning the screws in the minus (-) direction reduces the travel distance.*
- **If the motor is on the Right Hand Side facing the awning’s mounting surface use the following instructions.** Turning the **BLACK** Limit Switch Adjustment Screw adjusts the *projection/extension* distance the awning travels and turning the **RED** Limit Switch Adjustment Screw adjusts the *closing/retraction* distance the awning travels. *Turning each screw in the plus (+) direction increases the travel distance and turning the screws in the minus (-) direction reduces the travel distance.*

- 11.) Using the adjustment tool turn the **RED** adjustment 4 full rotations in the minus (-) direction.
- 12.) Press the extension button on the remote.
- 13.) Rotate the **RED** adjustment in the plus (+) direction, stop when the motor begins to extend the awning.
- 14.) Your awning extension is now set and should not require further adjustment.
- 15.) Press the retraction button on your remote.
- 16.) The awning will begin retracting and stop well short of full retraction.
- 17.) Using the adjustment tool turn the **BLACK** adjustment in the plus (+) direction. Continue turning it until the rear of the front bar is 2-3 inches from the motor housing or if you have a hood just until the rear of the front bar meets the hood.

Notes

1) If the motor is run excessively the temperature limit switch will overheat and prevent the motor from running. If this occurs you must wait a full 20 minutes for the motor to cool down. The motor is designed for one full open and close within a half hour period.

2) The motor must never be allowed to retract too far. If this ever occurs, immediately press the stop button. Permanent motor failure will occur and the warranty will be voided.

IMPORTANT: USE THE SHIPPING BOX TO RETURN YOUR ORIGINAL MOTOR TO BST PRODUCTS INC.. Return Label included in box. If the original motor is not returned within 30 days of receiving the replacement your credit card will be charged \$300.00.