

Retrofit Instructions for Replacing an In-Tube Motor from within a “Face Mount” Shaver Door

1. Remove all “Garage Door Style” rollers from the curtain door’s pultrusion tubes. This will be most easily done by tilting the pultrusion tubes diagonally. You may leave the rollers in the vertical extrusions.
2. Roll door up (By hand if necessary) so that the curtain door is in its “Up” position.
3. Remove the “Header Box” from above door’s opening; move entire assembly to a flat surface where you can comfortably work.
4. Remove the right bottom screw from the header box valance cover’s lower right-hand grommet hole.
5. With needle nose pliers remove the “Spring Ring” from the motor bracket (See photo #6 in install instructions for picture of the spring ring to be removed).
6. Tightly grasping the vinyl that is rolled around the tube assembly, pull the entire tube toward the non-motor end until motor has disengaged from the motor bracket.
7. Tilt entire tube assembly out of header box and slide in-tube motor out of tube’s end.
8. Slide new motor into end of tube **MAKING SURE THAT THE “LIMIT SWITCH” BUTTONS ARE FACING THE INSTALLER.” (The limit switches are the yellow & white buttons located in the outer plastic ring of the motor’s end).**
9. Feed the motor’s AC power cord through the motor bracket & main bracket’s hole.
10. Again, tightly grasp the vinyl that is rolled around the tube assembly, pull the entire tube toward the non-motor end and this time, reinsert the motor’s end back into the motor bracket and reinstall the spring ring that you removed earlier with the pliers.
11. You can now follow the instructions from the highlighted “Motorized Roll Instructions” (Page 6 through page 9) to complete the door’s installation.
12. **PLEASE PLACE THE ORIGINAL MALFUNCTIONING MOTOR IN THE BOX THAT THE NEW MOTOR ARRIVED IN, AFFIX THE PROVIDED UPS LABEL TO THAT BOX AND DROP INTO A UPS DROP BOX FOR RETURN TO SHAVER’S. WE APPRECIATE YOUR TIME AND CONSIDERATION!**

Motorized Roll Installation:

Prior to the installation of the motorized roll into the bracketry it should be fully inspected for completeness and proper assembly. Make sure that the motor is installed and fully seated in the aluminum tube, as is the spring-loaded idler unit on the opposite end. While the photographs will depict an installation with the track rollers loaded into the fiberglass pulltrusion bushings, it is often easier to perform this step without the rollers. There will be a section later in these instructions on the installation of the rollers after the motorized tube has been installed and programmed.

The installation of the motorized roller tube can best be accomplished by two workers on ladders or one worker on a scaffold or scissors jack (with at least a 6' platform). At all times be aware of the angle of the roller tube and make sure that no parts such as the rollers or motor "slide out" during the installation process.

Orient the roller tube so that the motor is on the "right side" of the door opening as you face the opening from the exterior side. Raise the complete tube assembly until both ends are within about a foot of their respective mounting brackets. Feed the motor power cable through the opening in the cast motor bracket as shown in the following photo (Photo 4):



Photo #4
(Motor Cord Routing)

Carefully tilt the idler end of the motorized tube up and engage the 12mm extension of the spring loaded idler cap into the corresponding bore of the ball-eye idler mount as shown in the following photo (Photo 5):



Photo #5
(Idler Shaft Engagement)

While feeding the service loop of the motor cord through the hole in the cast motor mount, rotate the motor end of the tube up into position. It will be necessary to apply a force along the axis of the tube in order to compress the spring loaded idler end and provide end clearance for the motor and the rollers.

Orient the motor so that the cable exit from the motor flange lines up with the cable exit opening in the cast motor mount. Pull on the free end of the motor cable to eliminate any slack or service loop and engage the body of the motor into the “fingers” of the cast motor mount. Press the motor/tube firmly into the cast mount until it fully seats and a “click” is heard as the spring ring captures the motor housing. It can take quite a bit of force to overcome the spring ring and often it is necessary to slightly deflect the ends of the spring ring with a small screwdriver in order to get the motor to properly engage. Do not use the

motorized roll door without the spring ring in place and properly engage with the motor housing.

Pro Tip: It is often difficult to get the motor to seat in the motor bracket and engage the spring ring. As an alternative assembly method you can completely remove the spring ring, engage the motor in the “fingers” of the cast motor mount, seat the motor in the mount, and then “slide” the spring ring around the assembly as shown in the following photo (Photo 6). Make sure that the spring ring properly engages the groove in the motor flange and the cast motor bracket.

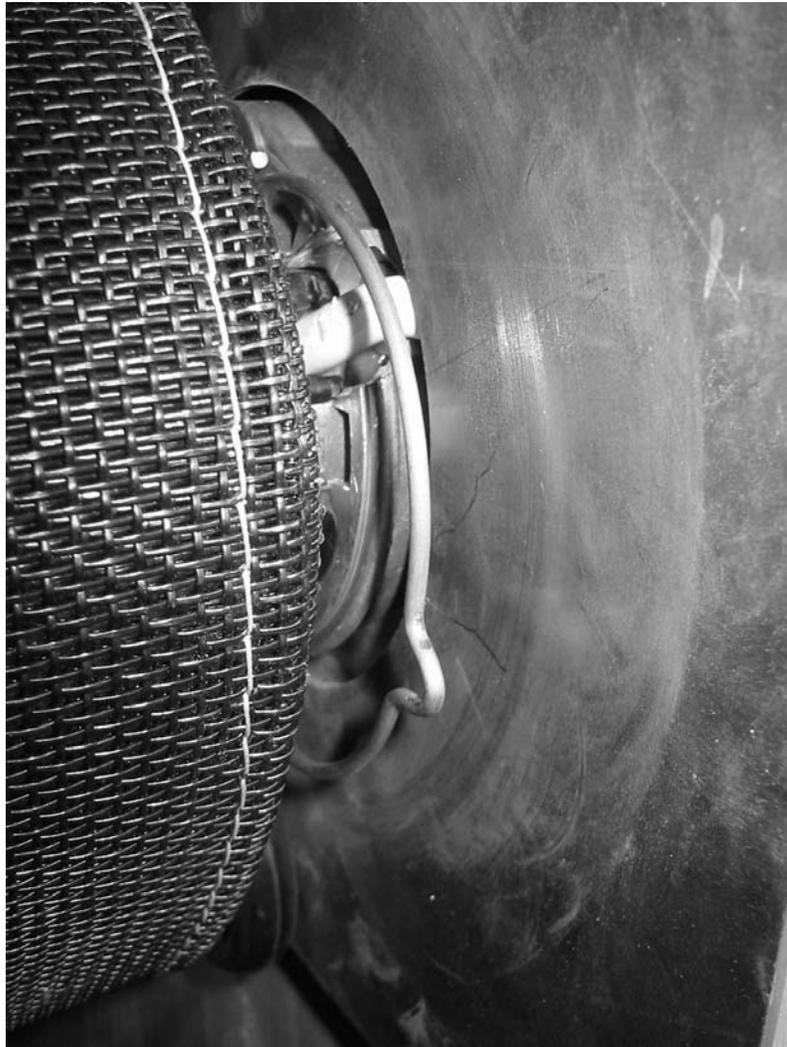


Photo #6
(Spring Ring Installation)

After the motor and spring ring are installed the assembly should look like the following photo (Photo 7):



Photo #7
(Motor Housing Engagement)

If the rollers are installed you can manually unwrap one to two turns of material from the roll and check the engagement and transition of the roller from the side brackets into the custom extrusion. Adjust and/or shim the brackets as required to ensure a smooth and repeatable roller transition into the extrusion.



Photo #8
(Roller into Extrusion Transition)

If the rollers were not installed it will be necessary to apply power to the motors and do the initial programming before they can be added to the assembly. Please refer to the following addendum for those instructions...

Addendum

Installation of Track Rollers after the Motor Tube is Mounted:

The track rollers can easily be installed after the Motor Tube and Curtain Assembly have been mounted. It is essential that the appropriate steps for applying power to the motor and setting the preliminary end stop positions have already been performed prior attempting this step.

The rollers can be installed on one side and then the other, or on both sides simultaneously. To install a roller into one of the middle pulltrusion (stiffener) tubes, index the motor until the pulltrusion pocket is approximately 8" below the junction of the bracket "funnel" and top of the custom extrusion. Stop the motor at that position and pull the edge of the pulltrusion pocket out of the track and clear of the edge of the building. Locate the nylon bushing at the end of the pulltrusion tube and slide the shaft of a roller into it as indicated in the following photo (Photo 12):



Photo #12
(Roller Installation)

Raise the roller up, slide it across the face of the Motor or Idler bracket, and drop it into the “funnel” of the bracketry as shown in the following photo (Photo 13):



Photo #13
(Roller Into Funnel)

Repeat this procedure for the remaining pulltrusion tubes, including the bottom tube directly above the chain pocket. Ensure that the rollers enter the custom extrusion properly and that the edges of the curtain “pop” into the extrusion and/or EPDM seals.