ThermalDESIGNS®
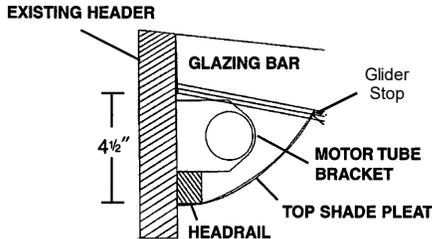1880 South Flatiron Ct.
Boulder, CO 80301
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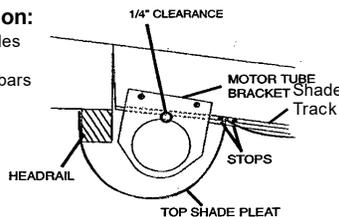# INSTALLATION INSTRUCTIONS FOR ADD ON TRACK MOTORIZED SHADES - Using Wall Switch

● Mount motor brackets directly beneath ridge and inside edge of track location.

1. MOTOR TUBE AND HEADRAILS

● Mount headrail beneath motor brackets.

EXISTING HEADER
GLAZING BAR
Glider Stop
4½"
MOTOR TUBE BRACKET
TOP SHADE PLEAT
HEADRAIL

Headrail w/ velstick
Motor Bracket
Idler End Bracket
Intermediate Bracket
CONNECTING ROD

● Use the connector rods and brackets provided for intermediate tubes.
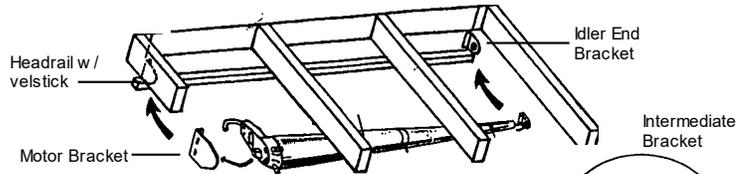
● Attach tubes to brackets.

Bracket Mounting Option:
Mount motor brackets to sides of glazing bars leaving 1/4" clearance beneath glazing bars for motor tube.

Use 2 shade stop screws to secure top glider; top shade pleat loops under motor to back of headrail.

1/4" CLEARANCE
MOTOR TUBE BRACKET
Shade Track
HEADRAIL
STOPS
TOP SHADE PLEAT

Position tubes so the MOTOR'S YELLOW LIMIT SWITCH COVER AND SCREW HOLES ON END CAPS face out or down for easy access.

● Use cotter pin to secure motor end. Use thread locker on allen nuts and screw them into end caps.

REGULAR BRACKET
OBSTRUCTION BRACKET
FACE MOUNT
2"
1"
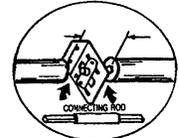
2. INSTALL THE TRACK

● Track is pre-drilled with holes for mounting. On curved units track is pre-bent to match curve of glazing bars as closely as possible.

● If using track mounting brackets, attach them to track first using screws provided before mounting them to glazing bars.

● Shade glider stops: Use 2 washer "stops" with pan head screws in the top and bottom holes of each track to keep shade gliders from falling out of track during operation.
 In some cases washer stops are provided for only the top of track (when bottom of track rests on a knee wall for example).

● START AT BOTTOM OF TRACK: Mark track hole or track bracket mount point, then use the 1/8" drill bit provided to pre-drill screw holes into glazing bars. Attach the track or track brackets using the screws provided.

Note: Track is quite flexible. With curved track, use gentle force against it to align it through the curve with the glazing bars for mounting.
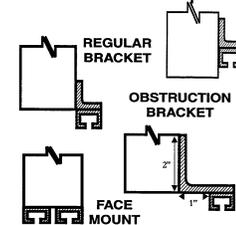
3. INSTALL SHADES IN TRACK

A B C
Track Gliders

● Shades are labelled in alpha order according to which window bay they belong to, unless they are all the same ("A" is left, looking out glass)

● START LOADING SHADES NEAR BOTTOM OF TRACK: Begin inserting gliders into track above the bottom shade stop. First gliders in are on bottom, back of shade where pull cords are attached...

Insert them vertically into the track. Using needle nose pliers, grip glider by the center axle and twist it into place horizontally, glider will quietly "snap" into place. Repeat for each glider, working up the back of the shade.

Needle Nose Pliers
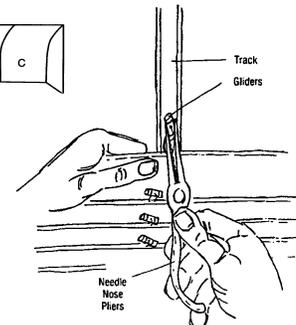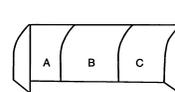
● Spray silicone up and down the length of tracks liberally. Caution: silicone will run down track and may drip out.

● Lift shade through track a few times by lifting on top shade pleat, verify freedom of movement.

● If shade catches or resists, use a little more silicone. Otherwise, check for obstructing screw holes (reset the screw), glider not straight (reset with pliers), or crimped track in radius (open with pry bars).

Shade Cords

Do this for every shade in the system...

● Unbundle the cords, draping them over top of shade. Pull top of shade up near the motor tube & place clamp in one of the tracks under top shade glider.

● Starting 12" in from side of glazing bar, wrap each cord 2 times OVER TOP OF MOTOR TUBE toward the center. Pull cords taut around tube so the cord tension is tight but not enough to lift the bottom of shade.

MOTOR TUBE
HEADRAIL
CLAMP IN SHADE TRACK
TOP PLEAT
PULL CORDS
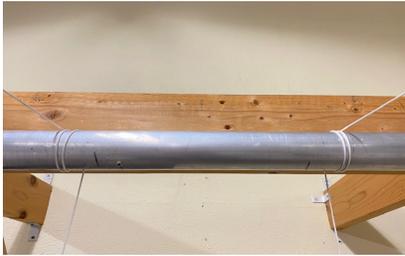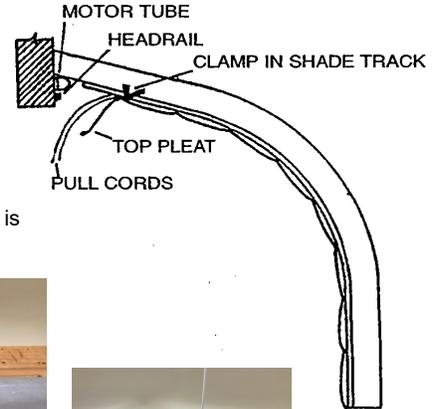
Wrap cords twice over tube toward its center
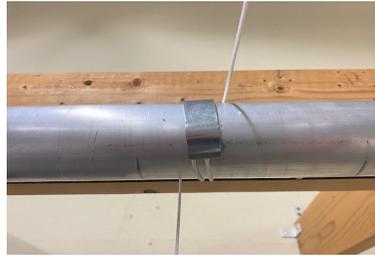
Cord clip - Right side

Rotate clip to tighten cord

● Attach cord clips over wrapped cord. Once attached, you can twist the clip to tighten cord tension if needed. Match tension equally on both cords to minimize later adjustments. Cut off extra cord length hanging from cips.

For wide, mutli-bay shades with more than 2 cords, wrap and clip the interior cord(s) roughly 7" toward the center of tube from where the cords are tied to the back of the shade.

● Repeat this process for each shade ensuring all cords on all shades have the same tension before operating the motor.

● When finished with one shade remove clamp from track for use with next shade. Do not yet attach velcro on shade to headrail. After finishing with cords of the last shade, put clamp aside.

Initiate Motor Operation

A motor test adapter is provided to set the motor's upper and lower limits prior to hard wiring to the wall switch.

● Remove the yellow protective cap on the motor end of tube covering the limit switch push buttons. This is best done using a small flat screw driver or needle nose pliers. Fully depress both white and yellow buttons so they lock in the recessed position (use screw driver or plier tip). Do Not discard the cap.

Motor on the Right - Remove yellwo cap

Depress both buttons after removing cap

Motor test adapter
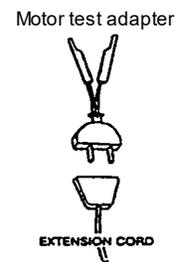
EXTENSION CORD

● Run an extension cord for the test adapter, close to the motor cable and plugged into nearest outlet. Use one of the following guidelines to RAISE the shades using the test adapter - test adapter is unplugged for the moment:

IF MOTOR IS ON THE RIGHT when facing the motor tube, attach either one of the alligator clips on the adapter to the motor's RED wire and the other clip to the White neutral wire (leave motor's black and green wires alone).

IF MOTOR IS ON THE LEFT when facing the motor tube, attach either one of the alligator clips on the adapter to the motor's BLACK wire and the other clip to the White neutral wire (leave motor's red and green wires alone).

Check that shades raise properly:

- Run motor up to raise shades: Plug in test adapter to extension cable - Let motor tube rotate 4-5 revolutions and Stop/Unplug adapter.

  If any shades are raising unevenly, adjust cord tension by twisting the cord clips on motor tube appropriately. When bottom of shades are all even, tension is correct. Also note that cords will wrap around tubes away from clips in a telescoping fasion.

Cords after 4 motor rotations
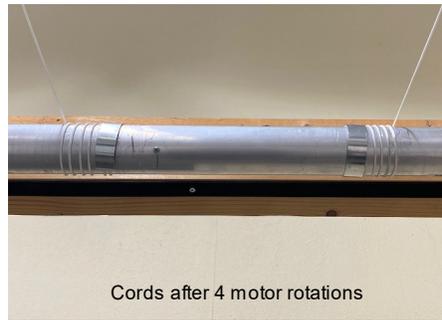
- Attach top shade panel to velstick on headrail.

Now Set Motor Upper and Lower Limits

- Continue raising shades until they reach your desired maximum open position (upper limit), Stop/unplug adapter. STOP BEFORE shade pleats bundle too tightly at top of room.

  IF MOTOR IS ON THE RIGHT, depress and release the YELLOW button so that it pops back out. Your upper limit is now set.

  Or, IF MOTOR IS ON THE LEFT, depress and release the WHITE button so that it pops back out. Your upper limit is now set.

- Swap the RED/BLACK motor wire attached to the adapter clip (If you ran shades up using RED motor wire, disconnect it from the adapter clip, and connect the BLACK motor wire to the clip, or vice versa).

- Plug in test adapter to extension cord and begin lowering shades.

- IF SHADES ARE NOT LOWERING EVENLY OR SMOOTHLY, STOP! More silicone spray is needed - Raise shades back to upper limit, apply more silicone before lowering again.

- When bottom of shades reach your desired lowest, closed position, Stop/unplug adapter. Depress and release the remaining button on the motor so that it pops back out. Your lower limit is now set.

- Test Drive - Raise the shades up and down to confirm upper and lower limits have been set.

- Replace the yellow protective cap over the buttons on the motor.

- **Note: Motors are not able to run continuously up and down for long periods. Once the motor becomes overheated, it will shut down and cannot operate until cooled.   The cool down time is at least 10 minutes.**

Note: Motor limit settings must be set BEFORE hard wiring to wall switch.

Below is the wiring diagram for your wall switch, provide to your electrician. It is also found printed on the inside of the switch container box.

ONE MOTOR / SINGLE POLE SWITCH
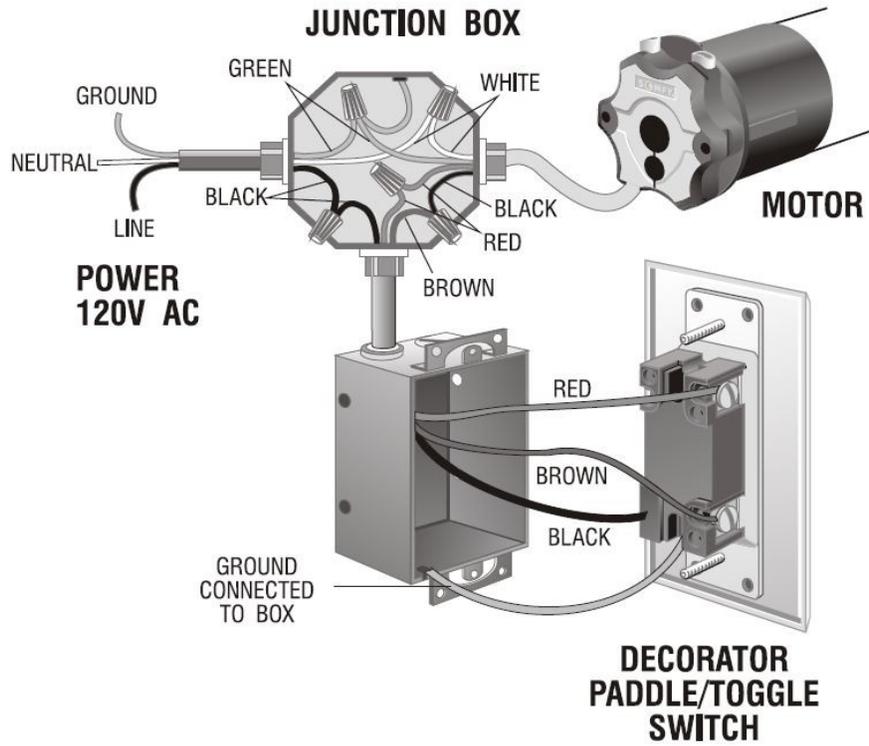
Black (to brown) and red wires from motor are directionals