



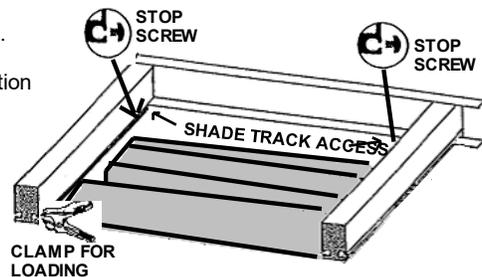
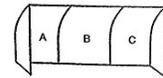
# ThermalDESIGNS®

1880 South Flatiron Ct.  
Boulder, CO 80301  
866-442-3485 fx 303-442-3520  
www.thermaldesignsinc.com  
sales@thermaldesignsinc.com

## Installation Instructions for Four Seasons Motorized Shades With Wall Switch

### 1: Install the Shades

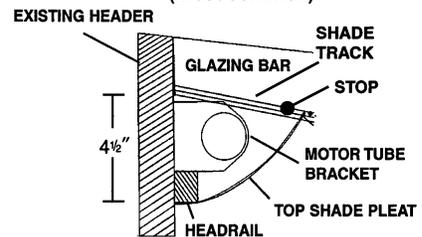
- Shades are labelled in alpha order from left to right (inside looking out), unless they are all the same size.
- Clean dirt and debris from track. Use brush provided or other soft material. Do not use tools that can scratch track surfaces.
- If installing from a ladder, rest the rolled-up shade on top to hold it while loading into track. The shipping boxes with sides cut off may make a convenient tray for this. Your ladder should face toward back of room.
- Place clamp in track 2 feet below ridge to hold shade in place while loading.
- Before loading shade: If tracks do not have an opening at ridge, drill wheel access holes in tracks at least 5/16" wide using the countersink bit provided, 3" inches below the ridge. Clean shavings from tracks. On wood models, remove the plastic access inserts from tracks near the ridge to load wheels.
- After loading shade, attach shade stop screws just below each access opening. These will prevent the shade from being pulled out of the track during operation. Pre-drill holes using 1/8" drill bit provided. Attach stop screws at the same location in each track of every bay.
- Lubricate tracks using foam brush: Spray silicone on both edges of brush, run brush up and down length of tracks. Verify smooth operation when motor is in use. Reapply silicone if needed. Notes: Silicone can be messy and slippery so do not spray brush directly over flooring or furnishings. NEVER use other lubricants such as WD-40 or Triflow as these collect dirt.
- Remove clamp and gently lower shade to the sill. Don't let shade drop to prevent damage to the wheels.



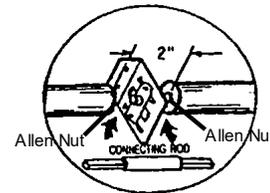
### 2: Install Motor Tubes and Headrails

- Your installation will have at least one motor tube with motor and idler end brackets. If the motor will drive multiple tubes, intermediate connector bracket kits for those tubes are provided.
- Mount motor tube brackets directly beneath glazing bars where they meet the wall at ridge of room. Screws and washers are provided, two per bracket.
- Mount shade headrails, velstick Facing Down, directly beneath motor brackets and against ridge wall or beam using deck screws provided.

#### BRACKET OPTION 1 (most common)



**In the following step, position motor tube so the yellow limit switch cover faces out and down for easy access (not applicable to remote control motors). Position tubes using connecting rods so the allen nut screw hole on the tube end caps face out and down.**

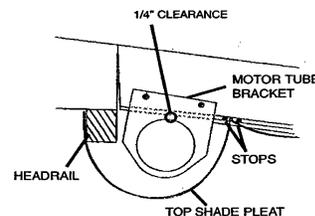


- Insert tube ends into brackets: Secure motor end in bracket with cotter pin. Center the connecting rods between intermediate tube brackets. Secure connecting rods in tube ends with allen nuts, applying a dab of thread locker provided to allen nuts before screwing

#### BRACKET OPTION 2

(Only if you ordered, as shades are made longer)

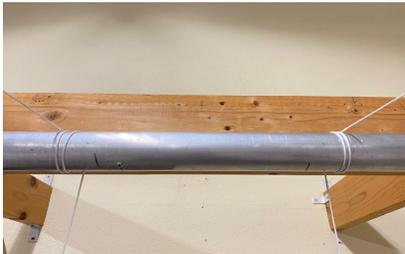
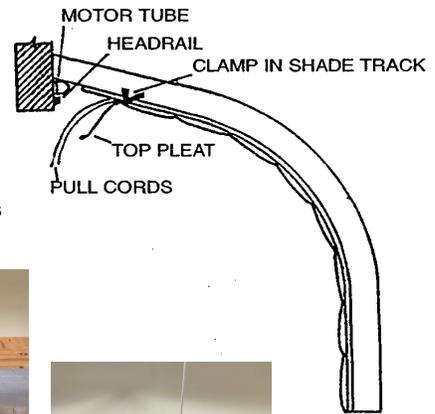
- Mount motor brackets to sides of glazing bars so the motor tube will have 1/4" clearance beneath glazing bars.
- Attach additional shade stop screws so there are two in each track, above and below the top shade glider.
- Top shade pleat will loop under motor tube to headrail.



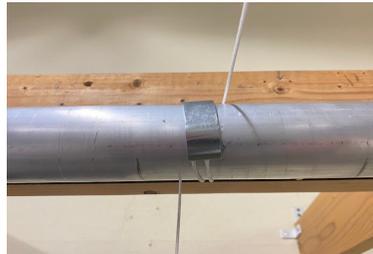
## Shade Cords

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.



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 clips.
- 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 yellow cap



Depress both buttons after removing cap

Motor test adapter



- 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:

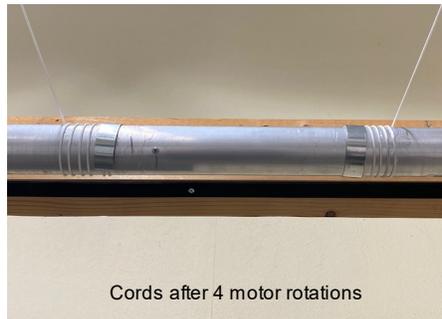
IF MOTOR IS ON THE RIGHT when facing the motor tube, attach either one of the alligator clips on the adapter to the motor's RED wire and the other clip to the White neutral wire (leave motor's black and green wires alone).

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 fashion.



- 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.

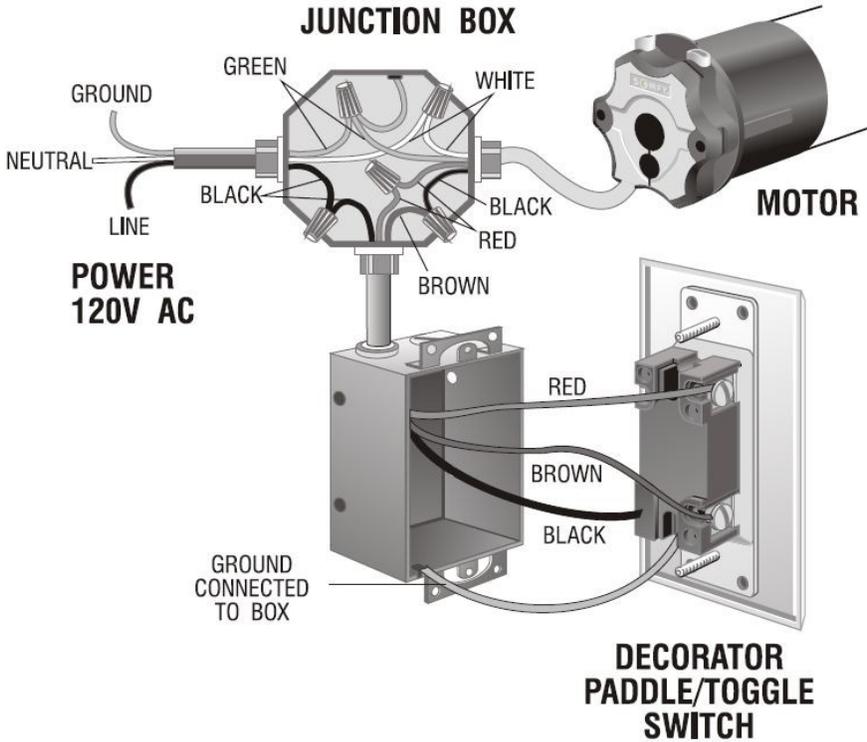
Or, IF MOTOR IS ON THE LEFT, depress and release the WHITE button so that it pops back out. Your upper limit is now set.

- 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.
- Replace the yellow protective cap over the buttons on the motor.
- Test Drive - Raise the shades up and down to confirm upper and lower limits have been set.
- **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