Dynatect Roll-Up Covers with Tension Roller (Spring Take-Up Mechanism)

Product Guide
PB0000012
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Welcome

Thank you for choosing Dynatect as your solution partner. We are excited to share our application knowledge to help maximize your smooth installation, safety in operation, and long life of the product. Please read this guide before installing or operating the equipment. Please store this guide so that it can be used again for future adjustment or maintenance. We appreciate your business and the confidence you have placed in us. Please contact us if we can be of further assistance: 262-786-1500 or sales@dynatect.com

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1.0 Mounting Instructions For Shade Roller Assembly (No Canister)

1. Install the brackets on the shade roller shaft, then mount the brackets.

2. Count the number of shade wraps on the roller. Subtract this number from the Total Turns Available figure (stamped on the label located on the roller end*). The result is the Total Available Pre-turns.

   * not available on 1” shade rollers

⚠️ WARNING: Person applying pre-turns should be wearing leather gloves.

3. With shade rolled up and taped on roller, apply pre-turns by rotating assembly while mounted in the brackets in the direction shade would leave the roller.

   a. Note: Pre-turns will vary. A good place to start is by applying half of the total available pre-turns.

   b. CAUTION: The unit is under tension once pre-turns are applied

⚠️ WARNING: Two people should conduct the steps below: One to hold the spring-loaded unit and the other to connect the shade.

4. While first person firmly holds the shade roller assembly to prevent accidental retraction, the second person removes the tape and mounts the shade end to the table.

5. Move the table through the entire length of travel. Apply more pre-turns if required.

6. Verify the shade roller is tracking properly through the entire length of travel.
2.0 Mounting a Canister (Flanges Provided)

Instructions:

1. Position canister against table or surface it is to be mounted to.  
   Note: the bottom of shade is should not be more than 0.125 inches above the riding surface.

2. If holes are provided in flange, use them as a template and drill and tap into the table or mounting surface. (If holes are not provided, drill through the flange on the canister into the table).

3. Anchor the canister with screws.

4. Move table to end where the shade mounting angle or flat bar will be mounted.

5. Pull the shade out of the canister slightly making sure it stays square.

6. Clamp shade in position

7. If holes are provided in angle or flat bar, use them as a template and drill and tap into the area you would like to mount the shade angle to. (If holes are not provided, drill through the angle into the area you would like to mount the shade angle to.)

8. Anchor the shade angle into the surface using screws.

9. Once both the shade angle and the canister are secured, run machine slowly to check for squareness and operability.

10. If cover is feeding onto riding surface and tracking properly, your canister is now ready for normal operation.
3.0 Adding Tension to a Canister Shade Roller

Tools Required:
- Vise grips or locking pliers
- Allen wrench (1/8”)
- Screwdriver

Instructions:

Example A – add pre-turn in counter-clockwise direction

Example B – add pre-turn in clockwise direction

1. Move cover to retracted position.

2. Attach vise grips to flat (or insert screwdriver to slot) on Steel Shaft below set screw.

3. Hold vise grips (or screwdriver) to prevent shaft from turning while loosening the set screw. Loosen set screw until steel shaft can be rotated (but don't rotate it either direction yet). Once the set screw is loose, the shaft will want to rotate.

**DO NOT ALLOW THE STEEL SHAFT TO ROTATE UNTIL STEP 4.**

4. Turn steel shaft one full rotation (360 degrees) in the opposite direction that the shaft wants to turn. *(Reference examples A and B above.)* We call this a "pre-turn". You are rotating the shaft against the spring force.

**WARNING:** Dynatect recommends that you add only one (1) additional pre-turn at a time. Adding too much tension can snap the internal spring.

5. Tighten the set screw. The set screw should always be seated on the flat of the steel shaft.

6. Check to see if this tightens the shade appropriately. If not, repeat steps 2 - 5.
4.0 Replacement of Fabric Shade in Canister Assembly

Instructions:

Tip: Take a photo of the shade roller canister assembly prior to disassembling (for reference when putting back together).

1. Remove pre-turns (tension) on roller.
   - **WARNING** The roll-up cover’s take-up mechanism is spring-loaded. Take extreme caution to avoid injury to yourself and others. Always release tension and spring energy slowly.
     a. Locate shaft end of roller that has slot or flat.
     b. With vise grip or screwdriver hold shaft from rotating.
     c. Loosen set screw in the end arbor.
     d. Turn roller shaft to remove pre-turns on roller.
     e. After pre-turns are removed from roller, remove one end plate from canister and remove the shade roller assembly.

2. Observe which way the shade is wrapped on the roller. Completely unroll shade from the roller. Remove shade from roller. Remove any residue with a solvent such as acetone.

3. Draw a line on the roller tube parallel to the shaft to ensure mounting of the shade is square. (a true line can be obtained by laying a right angle on the tube as a guide).

4. Brush contact cement on roller tube and apply new shade. Align new shade to marked line on roller. (Note: Shade must be straight with line on roller to ensure proper tracking in and out).

5. Roll up shade on tube and assemble roller with shade into canister.

6. For adding pre-turns (tension), see the instructions under section: *Adding Tension to a Canister Shade Roller.*
   - **WARNING** The person applying pre-turns should be wearing leather gloves.
5.0 Spring Replacement for a Dynatect Shade Roller

Replacement Kit:

1. (1) Nylon retainer with spring attached
2. (1) Aluminum retainer with spring if required
3. (2) Grip rings
4. (2) #44 rivets per aluminum retainer

**WARNING**: Spring and mechanical components are sharp, take safety measures such as wearing leather gloves

Instructions:

1. Remove grip ring from end of the roller that does not have slots to retain end cap in the aluminum tube.
2. After removing grip ring, slide off white nylon bearing and the aluminum outer tube.
3. Disengage the spring from the shaft. Spring can be cut or bent with pliers.
4. Discard the spring and nylon bearing that the spring is attached to. (retain hose)

5. **If replacing two or more springs** –
   a. Find any rivets on the outside of the aluminum tube and drill them out before trying to remove the tube.
   b. Additional springs – Disengage spring from shaft and slide off aluminum retainer and spring and discard.

6. **Reassembly of springs** –
   a. Slide new nylon retainer/spring assembly onto shaft. Put hose back on shaft. Attach the spring to the shaft through shaft hole. After spring is through shaft, bend over to prevent spring from coming out of shaft.
   b. Additional springs – Slide aluminum retainer/spring assembly onto shaft. Again, put hose back in place and attach the spring to the shaft through shaft hole.

7. Slide spring assembly into aluminum tube and line up slots in tube with keys in the nylon bearing.

8. Using existing hole in aluminum tube, drill two #30 diameter holes into the aluminum retainer and rivet the tube to the new retainer with (2) rivets provided.

9. Position remaining nylon retainer over shaft and slide into end of aluminum tube.

10. Attach new grip ring to end of shaft. Allow enough clearance for roller to rotate freely.

**Dynatect Repair Service**

Dynatect offers repair services for its roll-up product. To send in your cover for a free quote, contact customer service for a return authorization request.