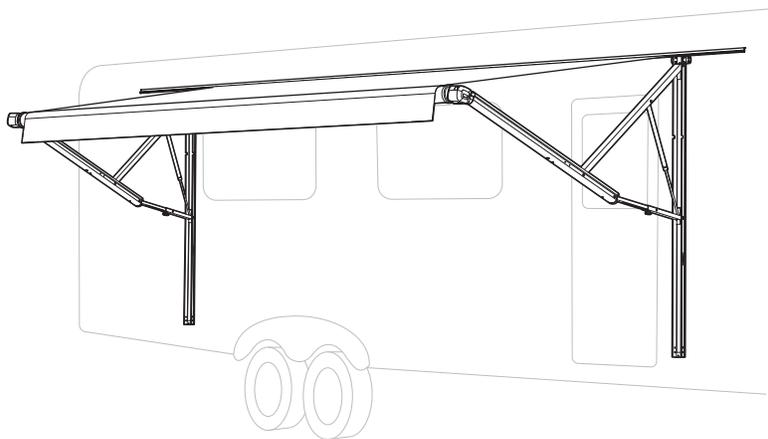


↗ DOMETIC

AWNINGS

FRTA ASSEMBLY



**WeatherPro, 9100 Power Patio, 9100 Power Channel, 9100 LED,
Sport, 9200, 9200 LED**

EN	Fabric Roller Tube Assembly (FRTA)
	Replacement Instructions2

⚠ WARNING
Cancer and Reproductive Harm www.P65Warnings.ca.gov



Service Center & Dealer Locations

Visit: www.dometic.com

Read these instructions carefully. These instructions **MUST** stay with this product.

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1 Explanation of Symbols and Safety Instructions

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries.

1.1 Recognize Safety Information

 **This is the safety alert symbol.** It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

1.2 Understand Signal Words

A signal word will identify safety messages and property damage messages, and also will indicate the degree or level of hazard seriousness.

 **DANGER!**
Indicates a hazardous situation that, if **not** avoided, will result in death or serious injury.

 **WARNING**
Indicates a hazardous situation that, if **not** avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation that, if **not** avoided, could result in minor or moderate injury.

NOTICE: Used to address practices **not** related to physical injury.

i Indicates additional information that is **not** related to physical injury.

1.3 Supplemental Directives

To reduce the risk of accidents and injuries, please observe the following directives before proceeding to service this appliance:

- Read and follow all safety information and instructions.
- Read and understand these instructions before servicing this product.
- The installation must comply with all applicable local or national codes, including the latest edition of the following standards:

U.S.A.

- ANSI/NFPA70, National Electrical Code (NEC)
- ANSI/NFPA 1192, Recreational Vehicles Code
- ANSI Z21.57, Recreational Vehicles Code

Canada

- CSA C22.1, Parts I & II, Canadian Electrical Code
- CSA Z240 RV Series, Recreational Vehicles

1.4 General Safety Messages

⚠ WARNING: Failure to obey the following warnings could result in death or serious injury:

- Use only Dometic replacement parts and components that are specifically approved for use with the appliance.
- Avoid improper installation, adjustment, alterations, service, or maintenance of the appliance. Service and maintenance **must** be done by a qualified service person only.
- Do **not** modify this product in any way. Modification can be extremely hazardous.

⚠ WARNING: ELECTRICAL SHOCK, FIRE, AND/OR EXPLOSION HAZARD.

Use care when diagnosing and/or adjusting components on a powered unit. Failure to obey this warning could result in death or serious injury.

⚠ WARNING: IMPACT OR CRUSH HAZARD.

Do **not** install the awning during windy conditions, or when wind is expected. Otherwise, the awning could move unpredictably, become unstable, and could detach, bend, or collapse. This awning should be installed in a controlled environment (inside). Failure to obey this warning could result in death or serious injury.

2 General Information

This section describes tools necessary to complete the installation process.

Required Tools and Materials
Drill
3/16 in. Drill Bit
1/8 in. Drill Bit
3/16 in. Hex Nut Driver (For Drill)
Small Flathead Screwdriver
Tape
Nylon Ties

Required Kits	Reference Number	Quantity
Torsion Crank Assembly	3308334.006U	1
Choose one:		1
• Fabric Guide	3109976.005	
• Fabric Guide (Power Channel Awning)	3316111.000	

3 Intended Use

This Fabric Roller Tube Assembly (hereinafter referred to as “FRTA”) consists of a vinyl or acrylic fabric, roller tube, LH torsion assembly, and RH drive (motor) assembly. Some FRTA models may also include a weathershield. These instructions apply to power type patio awnings (hereinafter referred to as “awning,” or “product”).

The Awning Hardware (hereinafter referred to as “HDWR”) consists of two arm assemblies (one LH, and one RH). An arm assembly typically includes a back channel, front channel, top arm, adjustable pitch arm, top mounting bracket, and gas strut. However, components may vary depending on the awning model.

Read these instructions and highlight the appropriate steps for your particular procedure before starting. Graphics may show different models, but they will still illustrate the correct procedure.

Replacements can be performed by one person with brief help from additional personnel.

Dometic Corporation reserves the right to modify appearances and specifications without notice.

The manufacturer accepts no liability for damage in the following cases:

- Faulty assembly or connection
- Damage to the product resulting from mechanical influences and excess voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual

4 Prepare the Awning

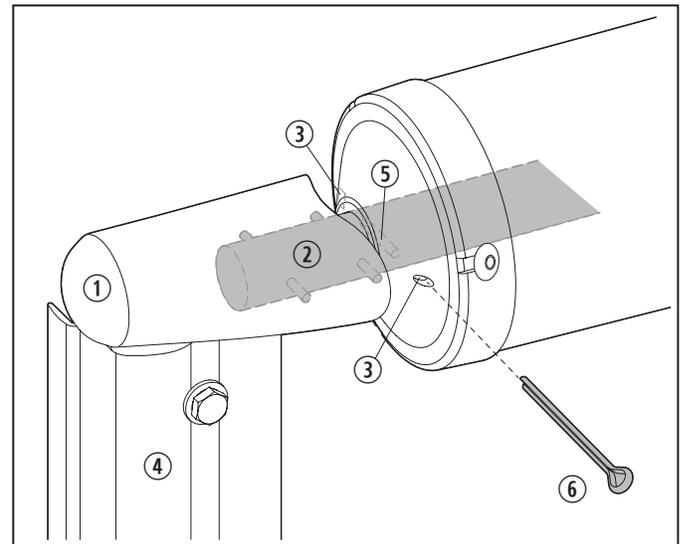
This entire section prepares the awning before the FRTA service or replacement.

4.1 Staging the Awning for all Procedures

- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.
- i** See the “Open Awning” section in the Operating Instructions (or User’s Guide) for complete instructions.

4.2 Pinning the LH Torsion

This section applies to the torsion rods for all models, except the 9200 and 9200 LED Power Awnings.



1 Pinning the LH Torsion

- | | |
|-----------------------------|-----------------------|
| ① WeatherPro LH Top Casting | ④ Front Channel |
| ② Pin | ⑤ Hole in Torsion Rod |
| ③ Slots in LH End Cap | ⑥ Cotter Pin |

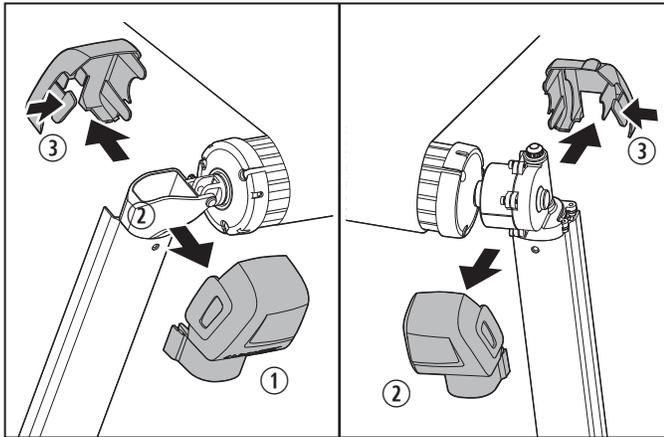
- i** This procedure must be performed:
 - with the FRTA extended two revolutions (turns) from the awning rail, and
 - while on a stepladder.

1. Pin the LH torsion to prevent uncontrolled unwinding of the spring, or unintended awning movement.
2. Rotate the FRTA until the pin near the LH top casting is parallel with the two slots in the LH end cap.

- i** Power to the awning is required to turn the FRTA with the awning motor.
 - i** The hole in the torsion rod must align with the slots in the LH end cap.
3. Insert a 7/64 x 2-3/4 in. (3 mm x 70 mm) [or a 7/64 x 4 in. (3 mm x 102 mm) cotter pin for the power channel] through the end cap and torsion rod. Tape the head of the cotter pin to the end cap to secure in place.

4.3 Removing the Plastic Covers

This section only applies to the 9200 and 9200 LED Power Awnings.



2 Removing the Plastic End Covers

- ① LH Plastic Cover
- ② RH Plastic Cover
- ③ Plastic Clip

1. Press the clip to release the LH plastic end cover.
2. Repeat for the RH cover.

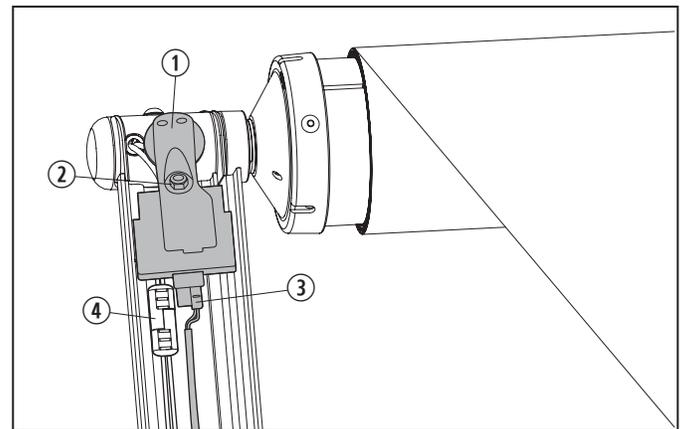
4.4 Disconnecting the Wind Sensor

NOTICE: Disconnect the positive (+) 12 VDC terminal from the supply battery.

This section only applies to the drive assembly, awning fabric, and roller tube for models that meet these conditions:

- the awning model is equipped with a wind sensor
- the awning model is a WeatherPro, and
- the wind sensor is mounted on the HDWR

i To replace the weathershield or the torsion only, or if a wind sensor is mounted on the RV (**not** on the HDWR), it is **not** necessary to disconnect the wind sensor. Skip to section, "Disconnecting the Awning Motor Drive Assembly" on page 6.



3 Disconnecting the Wind Sensor

- ① Wind Sensor
- ② Bolt and Spacer
- ③ Wind Sensor Wiring
- ④ Motor Wiring

1. Press and hold the red tab on the wind sensor wiring connector. Pull the connector from the wind sensor to disconnect.
2. If the awning will be removed to replace the awning fabric or roller tube, disconnect the wind sensor wiring from the control kit wiring harness.

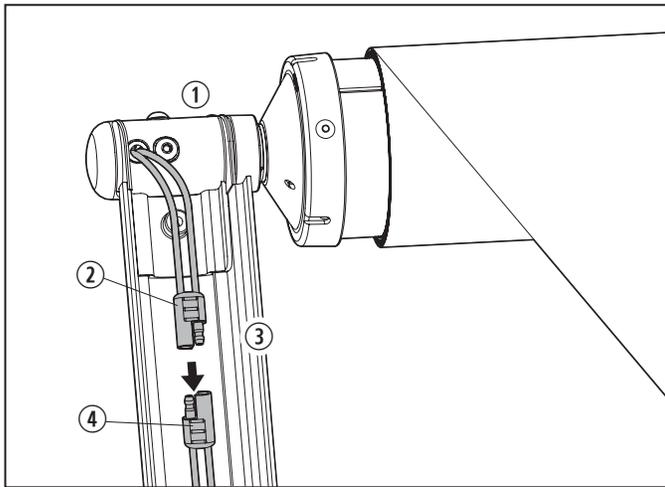
i Locate the connections at the wiring hole through the RV in the RH back channel. Remove any silicone sealant from the hole to access the connections.

4.5 Disconnecting the Awning Motor Drive Assembly

NOTICE: Disconnect the positive (+) 12 VDC terminal from the supply battery.

This section disconnects the motor drive.

i To replace the weathershield or the torsion only, it is **not** necessary to disconnect the awning motor. Skip to section, "Removing the Torsion" on page 11.



4 Disconnecting the Awning Motor

- ① RH Top Casting (Power Patio)
- ② Motor Wiring
- ③ Front Channel
- ④ Hardware Wiring

1. Disconnect the awning motor from the hardware wiring harness inside the front channel. See Figure 3 & Figure 4.
2. If the awning will be removed to replace the awning fabric or roller tube, disconnect the awning motor wiring from the control kit wiring harness.

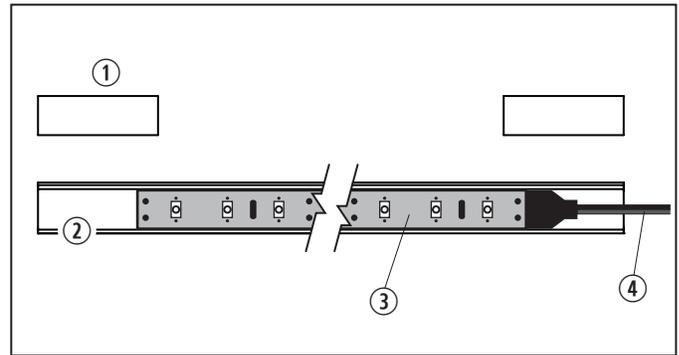
i Locate the connections at the wiring hole through the RV in the RH back channel. Remove any silicone sealant from the hole to access the connections.

4.6 Disconnecting the Top LED Light Strip

NOTICE: Verify the positive (+) 12 VDC terminal is disconnected from the supply battery.

This section only applies to models equipped with an LED light strip.

i To replace the weathershield, drive assembly, or torsion only, it is **not** necessary to disconnect the LED light strip. Skip to section, "Removing the Torsion" on page 11.



5 Disconnecting the LED Light Strip

- ① Snap Caps (removed)
- ② LED Rail
- ③ LED Light Strip
- ④ LED Wiring Strip

1. Disconnect the LED strip wiring from the switch wiring inside the RV.
2. Pull the LED strip wiring through the wiring hole from outside the RV.

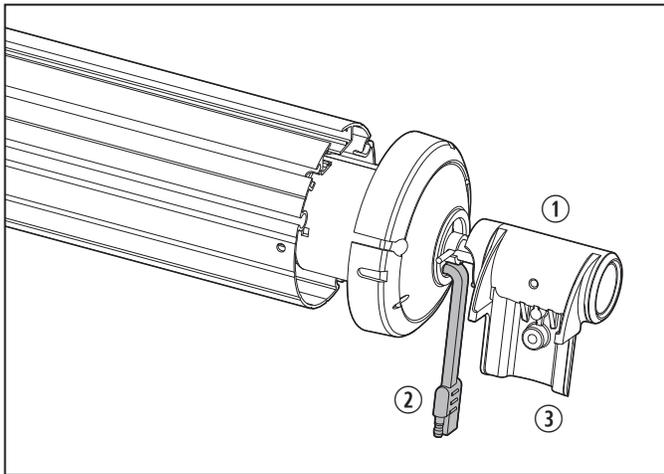
i Wiring from the RV switch may vary. See the RV manufacturer's instructions and wiring diagram for the connection and location details.

4.7 Disconnecting a Power Channel Harness with LED

NOTICE: Verify the positive (+) 12 VDC terminal is disconnected from the supply battery.

This section only applies to models equipped with an LED light strip and a power channel roller tube.

i To replace the weathershield, drive assembly, or torsion only, it is **not** necessary to disconnect the LED light strip. Skip to section, "Removing the Torsion" on page 11.



6 Power Channel Roller Tube

- ① LH Top Casting (Power Patio) ③ Front Channel
② LED/Power Channel Wiring

1. Disconnect the LED / power channel power connector inside the LH front channel. This is a 3-place connector.
2. If the awning will be removed for awning fabric or roller tube replacement, disconnect the LED / power channel wiring from the electronic control kit wiring harness.

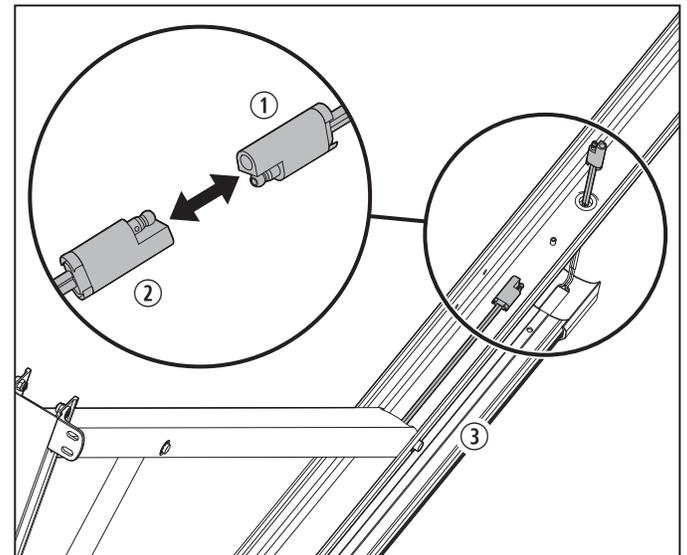
i Locate the connections at the wiring hole through the RV in the LH back channel. It may be necessary to remove silicone sealant from the hole to access the connections.

4.8 Disconnecting a HDWR Power Channel Harness

NOTICE: Verify the positive (+) 12 VDC terminal is disconnected from the supply battery.

This section only applies to models equipped with a power channel accessory strip on the HDWR front channel.

i To replace the weathershield, drive assembly, or torsion only, it is **not** necessary to disconnect the power channel harness. Skip to section, "Removing the Torsion" on page 11.



7 Hardware Power Channel Harness

- ① 2-Wire Connector ③ Power Channel
② Wire Harness Connector

Disconnect the 2-wire power connector inside the RH front channel.

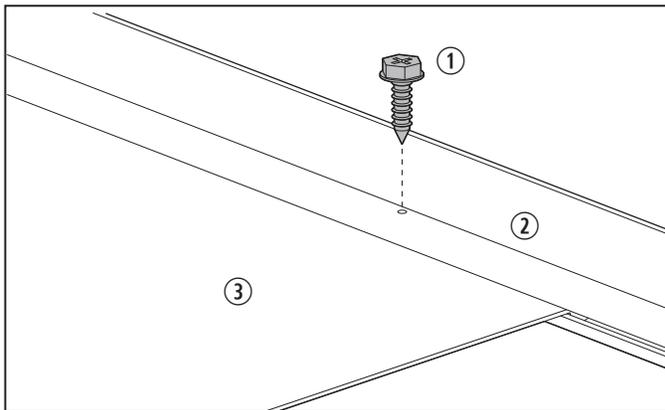
i Locate the connections at the wiring hole through the RV in the RH back channel. It may be necessary to remove silicone sealant from the hole to access the connections.

4.9 Preparing for Awning Removal

NOTICE: The area **must** be clean and clear of debris to prevent fabric damage. It is **not** necessary to unroll awning fabric to replace the weathershield.

This section applies to replacing the awning fabric and roller tube.

- i** To replace the weathershield, drive assembly, or torsion only, it is **not** necessary to remove the awning from the RV. Skip to section, "Removing the Torsion" on page 11.



8 Preparing for Awning Removal

- ① TEK Screw ③ Awning Fabric
② Awning Rail

1. Prepare an area large enough for the FRTA and unrolled fabric.
2. Remove the TEK screws that secure the fabric at both ends of the awning rail. Save for reinstallation.

5 Remove Assemblies to Access the FRTA

⚠ WARNING: IMPACT, CRUSH, AND/OR PINCH HAZARD. Failure to obey these warnings could result in death or serious injury.

- Do **not** detach the awning from the RV until ties are wrapped around each arm assembly. The arm assemblies are under tension from the gas strut. Detaching the awning without these ties could allow the arms to extend quickly and unexpectedly.

- Control the arm assemblies while removing the top screws. When the weight of the FRTA is **not** supported, downward force could cause the awning to detach, bend, or collapse.

This entire section removes assemblies to access the FRTA.

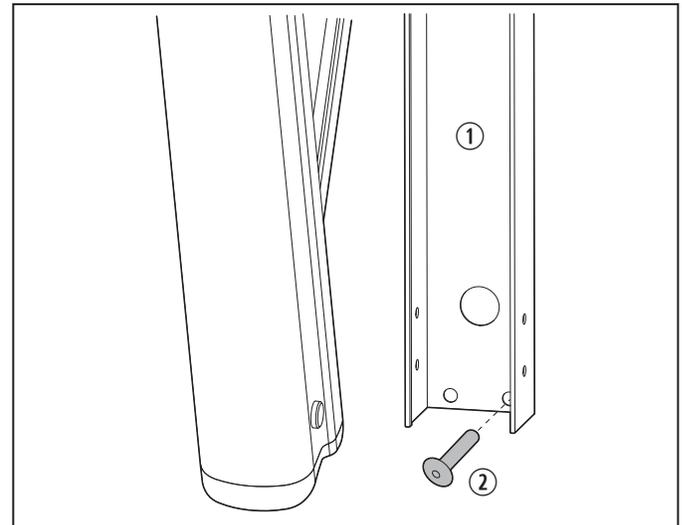
5.1 Removing the Awning

This section applies to the awning fabric and roller tube.

- i** To replace the weathershield, drive assembly, or torsion only, it is **not** necessary to remove the awning from the RV. Skip to section, "Removing the Torsion" on page 11.

5.1.1 Detaching the Arm Assemblies

This subsection applies to the awning arm assembly.



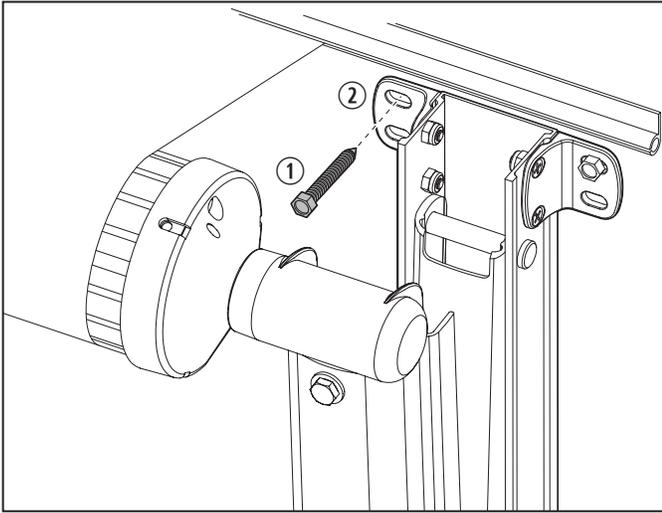
9 Back Channel Rivets

- ① Back Channel (Power Patio) ② Rivet

- i** If the HDWR is not equipped with top mounting brackets, do not remove the two screws at the top of the back channel.
- i** If hex head screws were used instead of rivets, remove the screws from the back channels and save for reinstallation.

1. Remove all rivets that secure the back channels (both ends of awning) to the RV.
2. Drill a 3/16 in. (5 mm) diameter hole through the rivet center.

- a. Discard the rivet and debris.
- b. Repeat step 2 for each rivet securing the back channel to the RV.

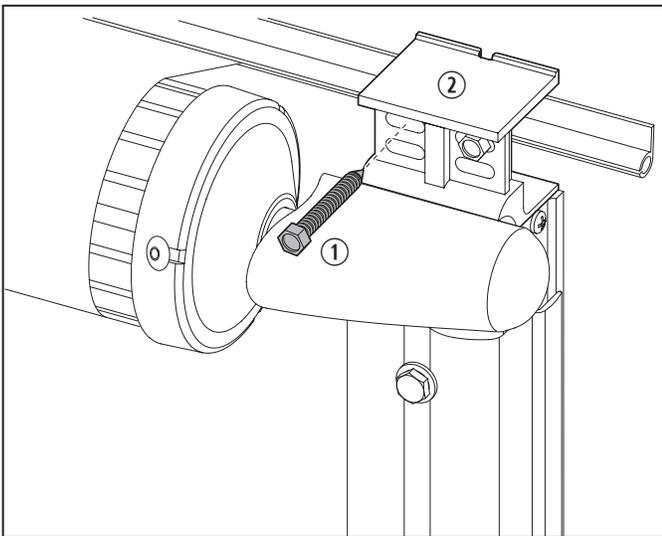


10 Power Patio HDWR with Top Mounting Brackets

- ① Hex Head Screw ② Top Mounting Bracket

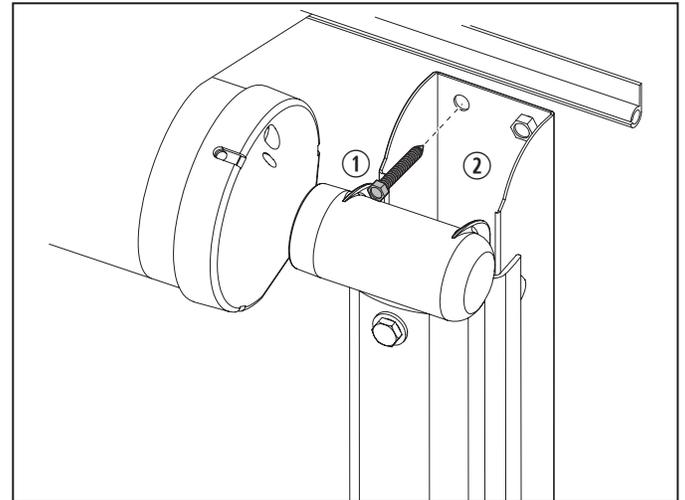
3. With one person holding each arm assembly, remove the hex head screws (from the inside slot) that secure the top mounting brackets (both ends of the awning) to the RV.

i Some awning models do not have top mounting brackets. Instead, the hex head screws are secured through holes in the top of the back channel. See Figure 11 & Figure 12.



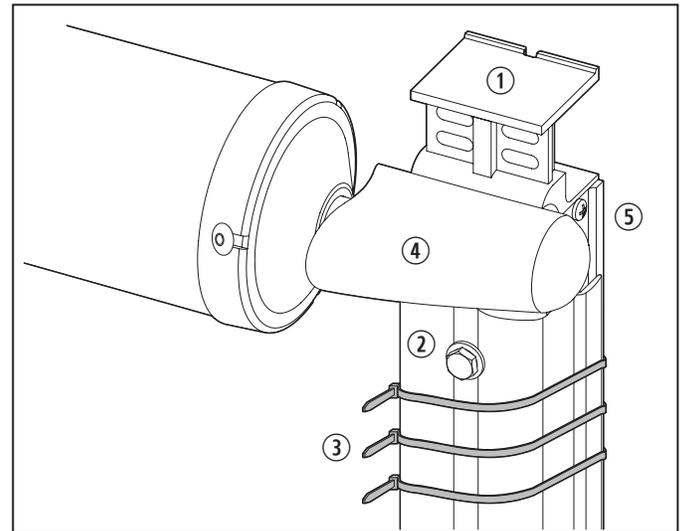
11 WeatherPro Hardware with Top Mounting Brackets

- ① Hex Head Screw ② Top Mounting Bracket



12 Sport HDWR without Top Mounting Brackets

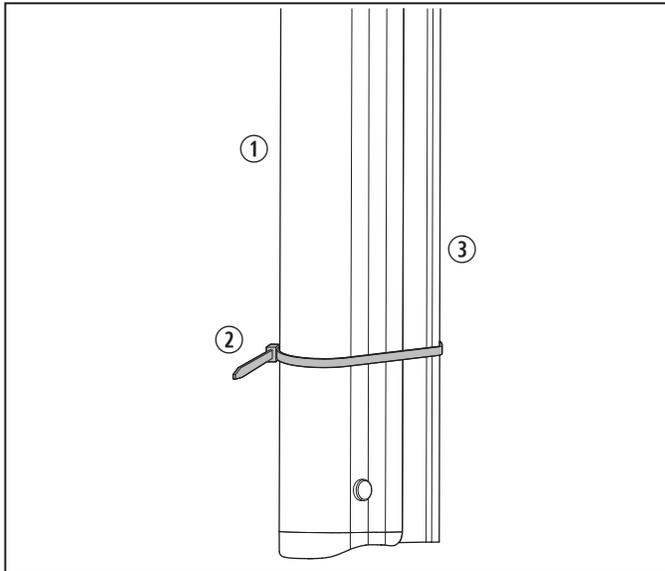
- ① Hex Head Screw ② Back Channel



13 WeatherPro Hardware Secured with Nylon Ties

- ① Top Mounting Bracket ④ Top Casting
 ② Front Channel ⑤ Back Channel
 ③ Nylon Ties

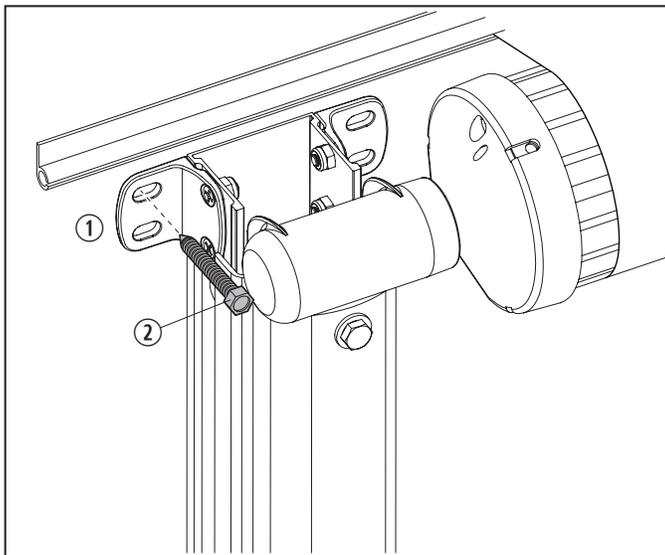
4. Push the front channel to close against the back channel, and hold in place.
5. Wrap at least two nylon ties around the front and back channel near the top casting. Tape in place.

**14** Power Patio HDWR Secured with Nylon Tie

- ① Front Channel ③ Back Channel
② Nylon Tie

6. Wrap at least one nylon tie around the front and back channel near the bottom of the arm assembly. Tape in place.

7. Repeat steps 4 through 6 for the opposite side.

**15** Power Patio HDWR with Top Mounting Brackets

- ① Top Mounting Bracket ② Hex Head Screw

8. Verify all safety precautions are in place.

9. With one person holding each arm assembly, remove the hex head screws (from the outside slot) that secure the top mounting brackets to the RV at both ends of the awning. Save for reinstallation.

i For models without top mounting brackets, hex head screws are used to secure the brackets. See Figure 12.

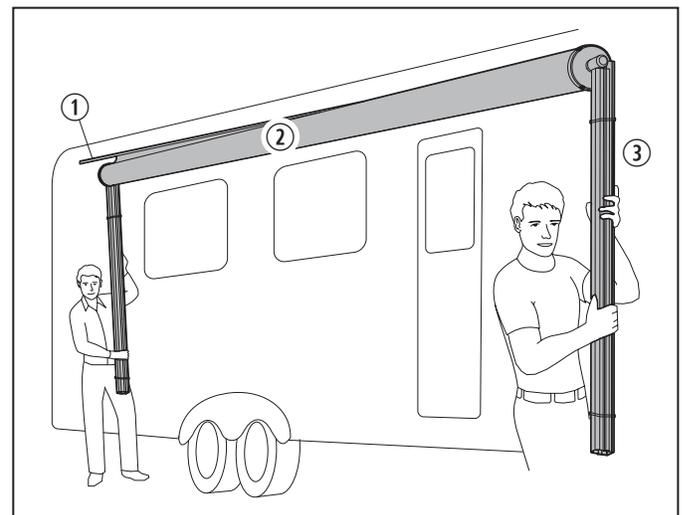
5.1.2 Removing the Awning from the RV

⚠ CAUTION: LIFTING HAZARD.

Use proper lifting technique and control when lifting the awning. Failure to obey this caution could result in minor or moderate injury.

NOTICE: Keep both arm assemblies parallel to each other to avoid twisting and damaging the awning.

This subsection removes the awning from the RV.

**16** Lifting the Awning

- ① Awning Rail ③ Arm Assembly
② FRTA

1. With one person grasping each arm assembly, lift the entire awning assembly upright.

2. Carry the awning assembly forward until the awning fabric (with the awning roller cover, if equipped) slides free from the awning rail on the RV.

3. Place the FRTA on a clean, well protected surface to prevent fabric damage.

5.2 Removing the Torsion

⚠ WARNING: IMPACT OR PINCH HAZARD.
Failure to obey these warnings could result in death or serious injury.

- Do **not** remove the top casting from the front channel until the torsion rod is securely pinned at the end cap. Otherwise, rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or roller tube quickly and unexpectedly.
- Do **not** remove the top casting from the front channel until the ties are wrapped securely around each arm assembly. The arm assemblies are under tension from the gas strut. Removing these ties could allow the arms to extend quickly and unexpectedly.
- Use extreme care when winding or unwinding the top casting. If **not** controlled, rapid casting spin off will occur.
- Be sure nylon ties secure the LH arm assembly.

NOTICE: Do **not** allow the top casting to spin off if equipped with an LED and Power Channel wiring harness.

NOTICE: Be sure the LH torsion is securely pinned. See the section, "Pinning the LH Torsion" on page 4.

This section applies to the awning fabric, roller tubes, and torsion rods for all models, except the 9200 and 9200 LED Power Awning.

i To replace the weathershield or the drive assembly only, it is **not** necessary to unwind or remove torsion. Skip to the section, "Removing the Drive Assembly" on page 14.

i If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

5.2.1 Securing the LH Arm Assembly

This subsection secures the LH arm assembly for all models, except the 9200 and 9200 LED Power Awning.

i If the awning is removed from the RV and the LH arm assembly is already secured with nylon ties, skip to the subsection, "Unwinding the Torsion" on page 11.

1. Push the front channel against the back channel to close.

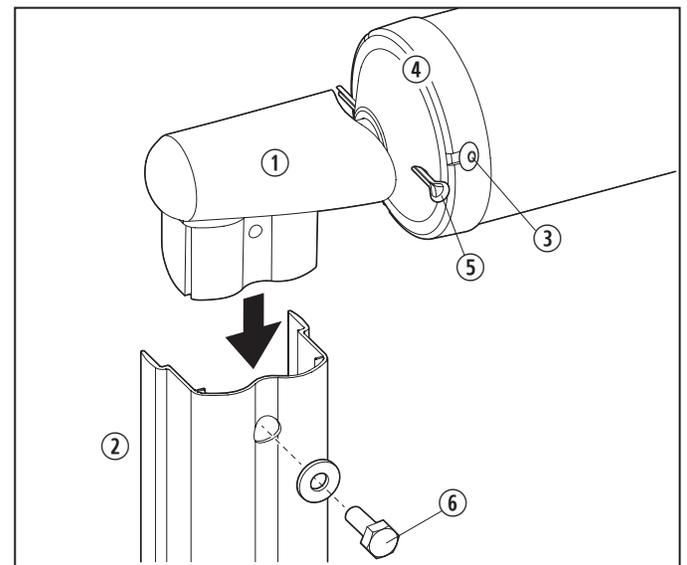
i Allow room between the front and back channels to remove the top casting from the front channel.

2. Wrap at least two nylon ties around the front and back channel near the top mounting bracket, and tape in place. See Figure 13.

5.2.2 Unwinding the Torsion

⚠ WARNING: IMPACT OR PINCH HAZARD.
Do **not** remove the cotter pin from the torsion rod (at the end cap) until the top casting is securely held. Otherwise, rapid casting spin off will occur. Failure to obey this warning could result in death or serious injury.

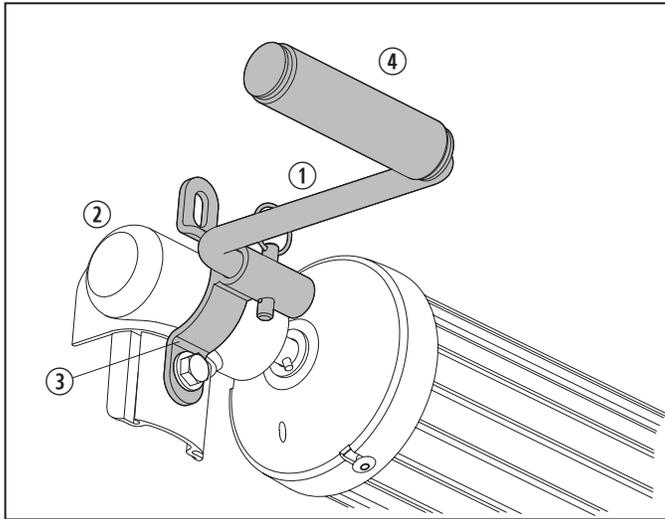
This subsection unwinds the torsion rod.



17 WeatherPro HDWR Top Casting Removal

- | | |
|------------------|------------------|
| ① LH Top Casting | ④ LH End Cap |
| ② Front Channel | ⑤ Cotter Pin |
| ③ Rivet | ⑥ Hex Head Screw |

1. Verify all safety precautions are in place.
2. Remove the hex head screw and washer that secure the LH top casting to the front channel. Save for reinstallation.
3. Lift and separate the LH top casting from the front channel.



18 Power Patio HDWR with Torsion Crank Assembly

- | | |
|--------------------------|----------------|
| ① Torsion Crank Assembly | ③ Adapter |
| ② LH Top Casting | ④ Crank Handle |

4. Place the correct torsion crank assembly adapter over the LH top casting.
5. Place and tighten the hex head screw through the adapter and into the top casting. See Figure 18.
6. While keeping a firm hold on the crank handle, pull the cotter pin from the torsion rod at the LH end cap. See Figure 1 & Figure 18.
7. Slowly unwind the torsion (top casting) until all torsion spring tension is relaxed. Then remove the crank assembly from the LH top casting.

5.2.3 Removing the Old Torsion

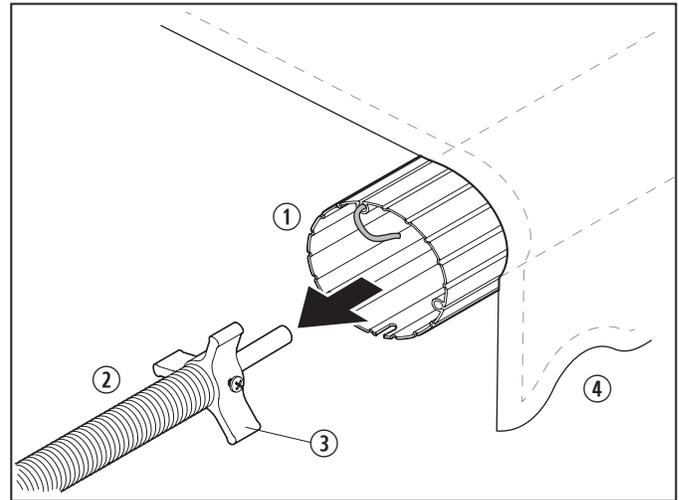
⚠ WARNING: IMPACT OR PINCH HAZARD.

Do **not** remove the torsion rod from the roller tube until spring tension is released (unwound). If the torsion rod is **not** pinned at the end cap, a rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or end cap quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

This subsection removes the torsion rod.

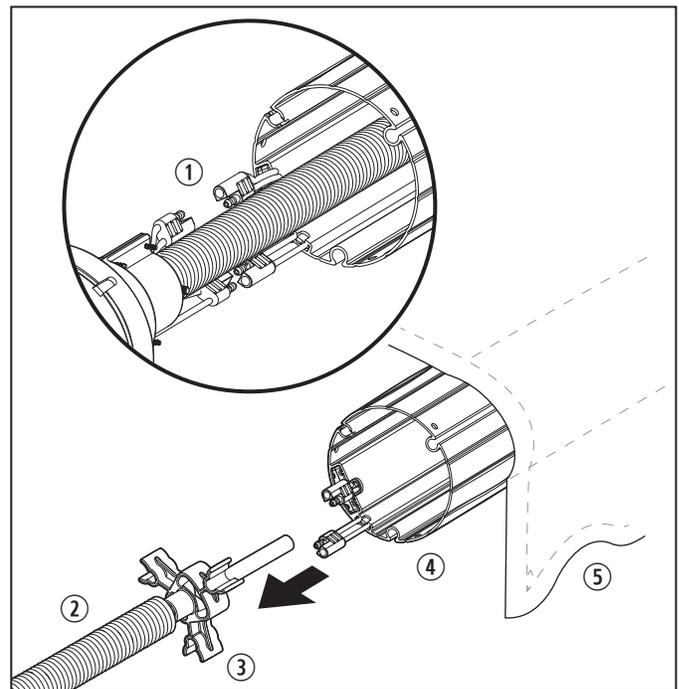
1. With the torsion spring tension released, remove the three rivets that secure the LH end cap to the roller tube. See Figure 17.
 - a. Drill a 3/16 in. (5 mm) diameter hole through the center of the rivet.

- b. Discard the rivet and debris.
- c. Repeat step 1 for each rivet that secures the end cap to the roller tube.



19 Sliding Out the Torsion Assembly

- | | |
|--------------------|-----------------|
| ① Roller Tube | ③ Stabilizer |
| ② Torsion Assembly | ④ Awning Fabric |



20 Sliding out the Power Channel Wiring with LED

- | | |
|---|-----------------|
| ① Power Channel Wiring
Harness with Silver Marking | ④ Roller Tube |
| ② Power Torsion Assembly | ⑤ Awning Fabric |
| ③ Stabilizer | |

2. Slide the torsion assembly out from the roller tube.
 - i** The connector with the silver marking goes to the power channel.
 - a. If equipped with an LED and power channel, slide the torsion assembly out of the roller tube enough to access the connectors on the powered torsion assembly. Unplug the connectors. See Figure 20.
 - b. Finish removing the torsion.
3. If the torsion is defective, discard. Otherwise, save for reinstallation.
4. If installing a new roller tube, discard the existing roller tube. Otherwise, remove burrs, rivet bodies, and debris from the roller tube and save for reinstallation. See Figure 19.

5.3 Removing the LH Idler Assembly

⚠ WARNING: IMPACT, CRUSH, AND/OR PINCH HAZARD. Failure to obey these warnings could result in death or serious injury.

- Control the arm assemblies while removing the top casting screws. When the weight of the FRTA is **not** supported, downward force could cause the awning to detach, bend, or collapse.
- Be sure nylon ties secure the LH arm assembly.
- Do **not** remove the top casting from the front channel until the ties are wrapped securely around each arm assembly. The arm assemblies are under tension from the gas strut. Removing these ties could allow the arms to extend quickly and unexpectedly.

This section only applies to replacing the awning fabric, roller tube, and idler for the 9200 and 9200 LED Power Awnings.

- i** To replace the weathershield or the drive assembly only, it is **not** necessary to remove the idler. Skip to section, "Removing the Drive Assembly" on page 14.

5.3.1 Securing the LH Arm Assembly

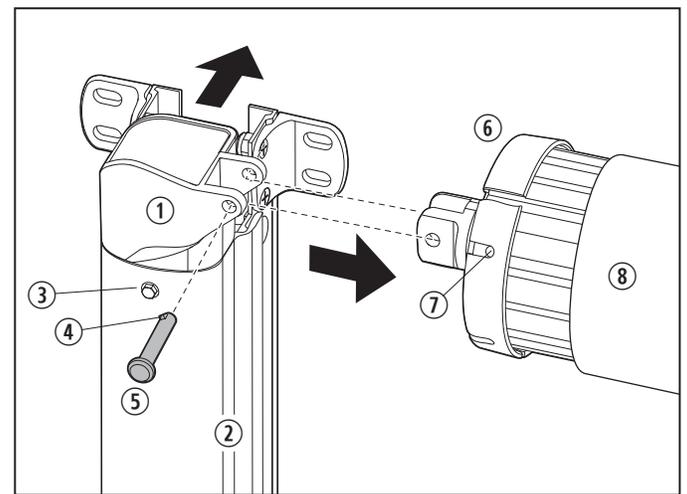
This subsection only applies to the LH arm assembly for the 9200 and 9200 LED Power Awnings.

- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

1. Push the front channel to close against the back channel.
 - i** Allow enough room between the front and back channels to remove the top casting from the front channel.
2. Wrap at least two nylon ties around the front and back channel near the top mounting bracket. Tape in place. See Figure 13.

5.3.2 Removing the Idler from the LH Arm

This subsection only applies to removing the idler from the 9200 and 9200 LED Power Awnings.



21 Removing the LH Idler Arm

- | | |
|------------------|--------------|
| ① Top Casting | ⑤ Slic Pin |
| ② Front Channel | ⑥ LH End Cap |
| ③ Hex Head Screw | ⑦ Rivet |
| ④ Spring Detent | ⑧ FRTA |

1. Verify all safety precautions are in place.
2. Remove the hex head screw and washer that secure the LH top casting to the front channel. Save for reinstallation. See Figure 18.
3. Lift and separate the LH top casting from the front channel. See Figure 21.
4. Remove the LH end cap from the LH top casting. While supporting the FRTA, use a small flathead screwdriver to push in the Slic pin's spring detent until the pin releases from the LH top casting.

5. Remove the LH end cap from the roller tube:
 - a. Drill a 3/16 in. (5 mm) diameter hole through the rivet center.
 - b. Discard the rivet and debris.
 - c. Repeat steps a and b for each rivet securing the end cap to the roller tube. Remove the end cap.

5.4 Removing the Drive Assembly

⚠ WARNING: IMPACT, CRUSH, AND/OR PINCH HAZARD. Failure to obey these warnings could result in death or serious injury.

- Do **not** remove the top casting from the front channel until the torsion rod is securely pinned at the end cap. Otherwise, rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or end cap quickly and unexpectedly.
- Make sure the LH torsion is securely pinned. See subsection, “Pinning the LH Torsion” on page 4. If LH torsion was removed from the FRTA, proceed to the next bullet.
- Do **not** remove the top casting from the front channel until the ties are wrapped securely around each arm assembly. The arm assemblies are under tension from the gas strut. Removing these ties could allow the arms to extend quickly and unexpectedly.

This section removes the drive assembly.

i To replace the weathershield or the torsion only, it is **not** necessary to remove the drive assembly. Skip to section, “Removing the Weathershield” on page 15.

i If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

5.4.1 Securing the Arm Assemblies

This subsection secures the LH arm assembly.

i If the awning is removed from the RV and the RH arm assembly is already secured with nylon ties, skip to the subsection, “Removing the Old Drive Assembly” on page 14.

1. Push the front channel to close against the back channel.

i Allow enough room between the front and back channel to remove the top casting from the front channel.

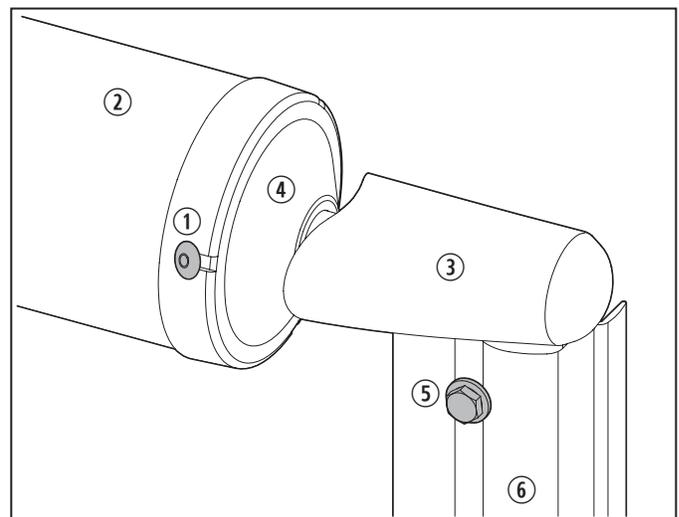
2. Wrap at least two nylon ties around the front and back channel near the top mounting bracket. Tape in place. See Figure 13.

3. Repeat steps 1 and 2 for the opposite side.

5.4.2 Removing the Old Drive Assembly

i The end cap and motor assemblies may vary in appearance.

This subsection removes the existing drive assembly.



22 Rivets on the RH End Cap

- | | |
|-----------------------------|------------------|
| ① Rivet | ④ RH Head Cap |
| ② Roller Tube | ⑤ Hex Head Screw |
| ③ RH Top Casting WeatherPro | ⑥ Front Channel |

1. Verify all safety precautions are in place.
2. Remove the RH end cap to the roller tube.
 - a. Drill a 3/16 in. (5 mm) diameter hole through the center of the rivet.
 - b. Remove the rivet with debris and discard.
 - c. Repeat steps a and b for each rivet securing the end cap to the roller tube.
 - d. Remove the end cap.
3. Remove the hex head screw and washer that secure the RH top casting to the front channel. Save for reinstallation.

4. Lift the RH top casting out from the front channel.
5. Slide the drive assembly out from the roller tube.
6. If the drive assembly is defective, discard. Otherwise, save for reinstallation.
7. If installing a new the roller tube, discard the existing roller tube. Otherwise, remove burrs and rivet debris from the roller tube and save for reinstallation.

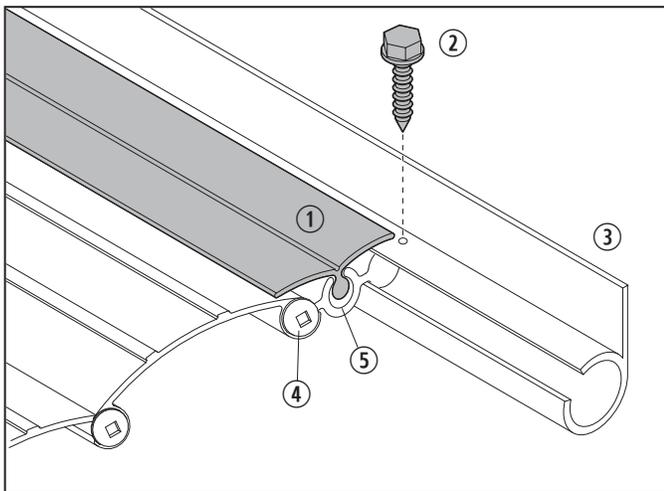
5.5 Removing the Weathershield

This section only applies to awnings equipped with a weathershield.

- i** If replacement does **not** involve the weathershield or if both the weathershield and the fabric will be replaced, skip to section, "Removing the Awning Fabric and Roller Tube" on page 17.
- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

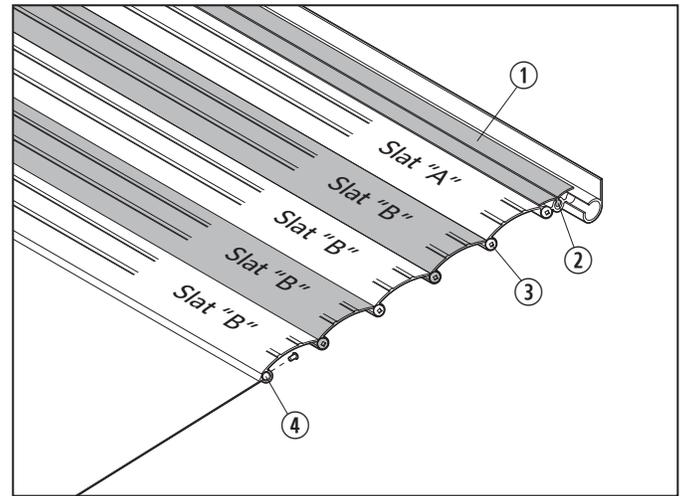
5.5.1 Removing a Metal Weathershield

This subsection only applies to awnings equipped with a metal weathershield.



23 Metal Hinge Slat

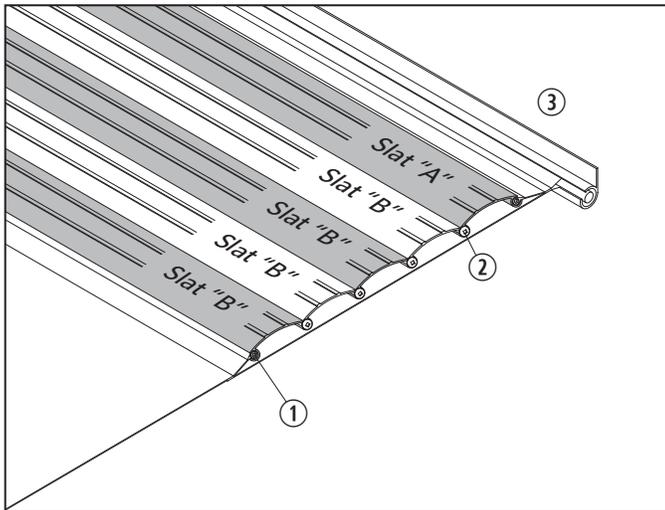
- ① Vinyl Strip
- ② TEK Screw
- ③ Awning Rail
- ④ Slat Screw
- ⑤ Hinge Slat



24 Obsolete Metal Weathershield

- ① Vinyl Strip
- ② Hinge Slat
- ③ Slat Screw
- ④ Crimped End or Rivet

1. Skip to step 3 if the metal weathershield is **not** equipped with a hinge slat.
2. Remove the metal hinge slat connecting the weathershield to the awning rail. See Figure 23 & Figure 24.
 - a. If the awning is attached to the RV, remove the two TEK screws (one at each end) that secure the hinge slat to the awning rail. Save for reinstallation.
 - b. Remove the two slat screws (one at each end) that secure the weathershield to the hinge slat. Save for reinstallation.
 - c. Slide the hinge slat with the vinyl strip from slat A and from the awning rail, and discard.
3. Unfasten the weathershield from the awning fabric by disconnecting the bottom slat B from the awning fabric. See Figure 24 & Figure 25.

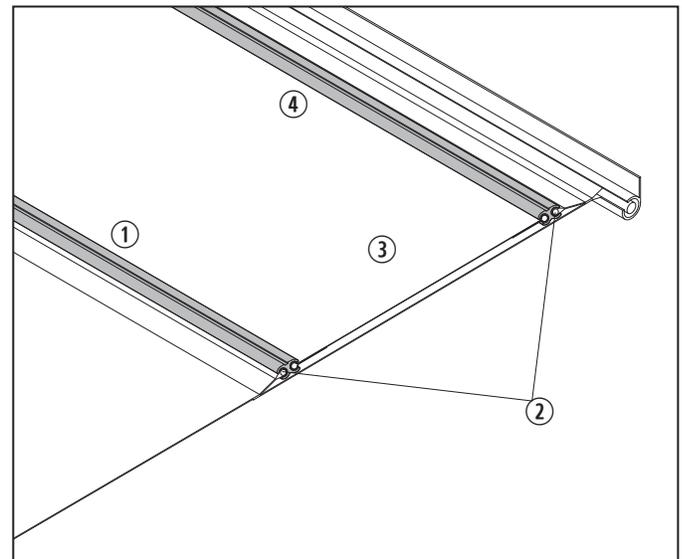
**25** Metal Weathershield

- ① Set Screw, Crimped End, or Rivet ③ Awning Rail
- ② Slat Screw
4. Disconnect the bottom slat B from the awning fabric using one of the procedures (below) based on how the slat ends are attached:
- Set screw fastened ends:
 - a. Remove the two set screws (one at each end) that secure the slat to the awning fabric and discard.
 - b. If keeping the old weathershield, save the set screws for reinstallation.
 - Riveted ends:
 - a. Drill a 1/8 in. (3 mm) diameter hole through the rivet center of the slat (one at each end).
 - b. Discard the rivets and debris.
 - Crimped ends:
 - a. Use a screwdriver to spread open the crimped ends (one at each end) that secure the slat to the awning fabric.
- i** If the metal weathershield is equipped with a hinge slat, skip to step 6.
5. Repeat step 4 to disconnect the top slat A from the awning fabric.

6. Slide the weathershield from the awning fabric. See Figure 24 & Figure 25.
- a. If the weathershield is damaged or being replaced, discard and skip to section "Removing the Awning Fabric and Roller Tube" on page 17.
 - b. If reusing the weathershield, place on a clean, well protected surface to prevent damage for reinstallation.

5.5.2 Removing a Vinyl Weathershield

This subsection only applies to awnings equipped with a vinyl weathershield.

**26** Vinyl Weathershield

- ① Bottom Hinge ③ Vinyl Panel
- ② Set Screw ④ Top Hinge
1. Remove the two set screws (one at each end) that secure the top hinge to the awning fabric and discard.
 2. Remove the two set screws (one at each end) that secure the bottom hinge to the fabric and discard.
 3. Slide the weathershield from the awning fabric.
 - a. If the weathershield is damaged or being replaced, discard it and the top and bottom set screws. Continue with the section "Removing the Awning Fabric and Roller Tube" on page 17.
 - b. If reusing the weathershield, place on a clean, well protected surface to prevent damage for reinstallation.

5.6 Removing the Awning Fabric and Roller Tube

NOTICE: Before servicing the awning, prepare a clean and smooth work area large enough for the unfurled awning fabric. This will help prevent damage to the awning fabric during replacement.

This section removes the awning fabric and FRTA.

i To replace the weathershield, torsion, or drive assembly only, see the section, "Removing the Weathershield" on page 15.

5.6.1 Removing the Awning Fabric and Roller Tube

This subsection removes the FRTA.

1. Place the FRTA on a clean and smooth work surface prepared earlier.
2. Unroll the awning fabric until completely unfurled on the prepared work surface.
3. With the awning fabric laying flat, slide the roller tube from the fabric to remove.

i If the weathershield is damaged, discard. Otherwise, save for reinstallation.

If replacing the awning fabric, leave the old fabric on the work surface to protect the new fabric during installation.

5.6.2 Preparing the New Awning Fabric

⚠ WARNING: IMPACT OR CRUSH HAZARD.

Do **not** remove the LED rail (if equipped) from the LED light strip awning fabric. Otherwise, the awning fabric could separate from the RV awning rail and cause the awning to extend quickly, resulting in detaching, bending, or collapsing. Failure to obey this warning could result in death or serious injury.

This subsection prepares the new fabric.

i To replace the roller tube only, skip to section, "Installing the Awning Fabric and Roller Tube" on page 17.

i If the awning has an undesired LED light strip, either remove the light strip from the LED rail while leaving the empty LED rail on the fabric rope, or replace the LED light strip awning fabric with a standard awning fabric.

1. Unroll the new awning fabric on top of the old fabric in the prepared work area with the bottom side of the fabric facing up.
2. Position the new awning fabric in the same orientation as the old fabric.
3. Make sure the new awning fabric size and color are correct.

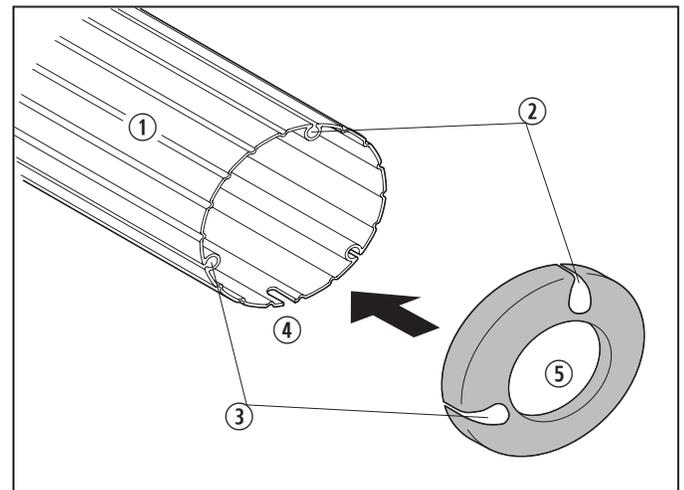
6 Reinstall the Assemblies

This entire section applies to installing the FRTA and reinstalling the removed assemblies.

6.1 Installing the Awning Fabric and Roller Tube

NOTICE: Do **not** install the awning fabric on the roller tube without using a fabric guide. Otherwise, damage to the awning fabric could occur.

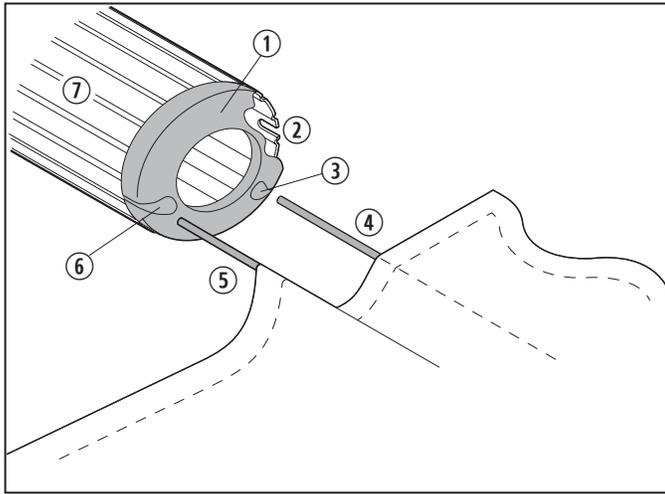
This section installs the awning fabric and roller tube.



27 Using the End Cap Fabric Guide

- | | |
|---------------------|------------------------|
| ① Roller Tube | ④ Notch |
| ② Fabric Rope Slot | ⑤ End Cap Fabric Guide |
| ③ Valance Rope Slot | |

1. Align the fabric rope and valance rope slots of the end cap fabric guide to the corresponding slots on the roller tube. Place the guide on the open end of the roller tube.



28 Feeding the Fabric into the Roller Tube

- | | |
|------------------------|--------------------|
| ① End Cap Fabric Guide | ⑤ Fabric Rope |
| ② Notch | ⑥ Fabric Rope Slot |
| ③ Valance Rope Slot | ⑦ Roller Tube |
| ④ Valance Rope | |
2. Insert the fabric rope and valance rope of the awning fabric into corresponding slots on the roller tube through the end cap fabric guide.
 3. Slide the roller tube forward until the awning fabric is centered on the tube.
 - i** The awning fabric will feed into the roller tube's slots while moving the roller tube forward. The awning fabric will be secured to the roller tube when the torsion is reinstalled.
 4. Remove the end cap fabric guide from the roller tube.
 - i** Save the guide for future adjustments.

6.2 Replacing the Weathershield

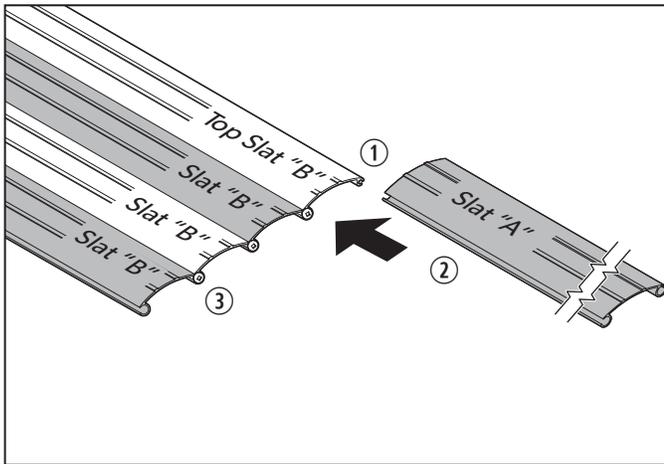
This section only applies to awnings with a weathershield.

- i** If replacement does not involve a weathershield or if the weathershield is pre-installed on the awning fabric, skip to section, "Preparing for the Torsion, Idler, and Drive Replacement" on page 20.
- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

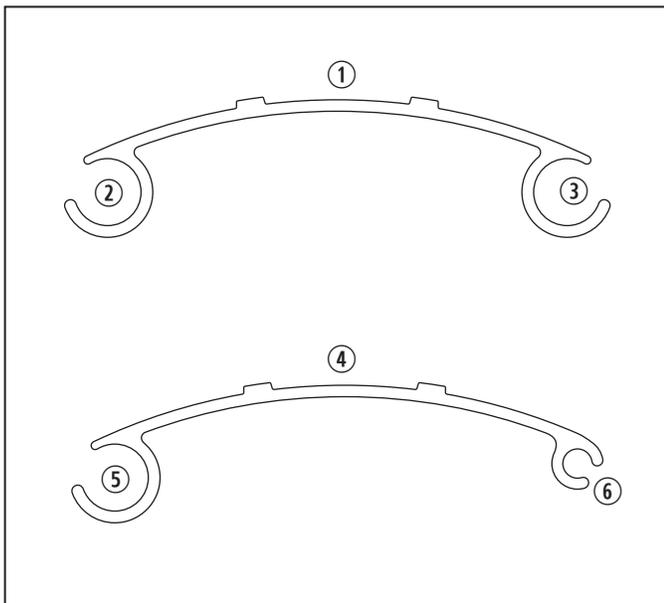
6.2.1 Preparing an Existing Metal Weathershield for New Fabric

This subsection only applies if keeping the old metal weathershield (equipped with a hinge slat) to reinstall onto new awning fabric. See Figure 23.

- i** If the old metal weathershield will be discarded, or has no more than five slats, skip to the subsection, "Installing a Metal Weathershield" on page 19.
1. Remove slat A from the weathershield. See Figure 25.
 - a. Remove the two slat screws (one at each end) that secure slat A to top slat B and discard.
 - b. Slide slat A from the weathershield. Save for reinstallation.
 2. Remove the extra slats from the awning rail end of the old weathershield. See Figure 25.
 - i** Slat A is counted in the number of slats.
 - a. If the old weathershield has seven slats, then remove two B slats.
 - b. If the old weathershield has six slats, remove one B slat.
 - c. Remove the two slat screws (one at each end) that secure the extra B slat(s) to the remaining weathershield slats. Save for reinstallation.
 - d. Slide the extra B slat(s) from the weathershield and discard.

**29** Preparing the Weathershield

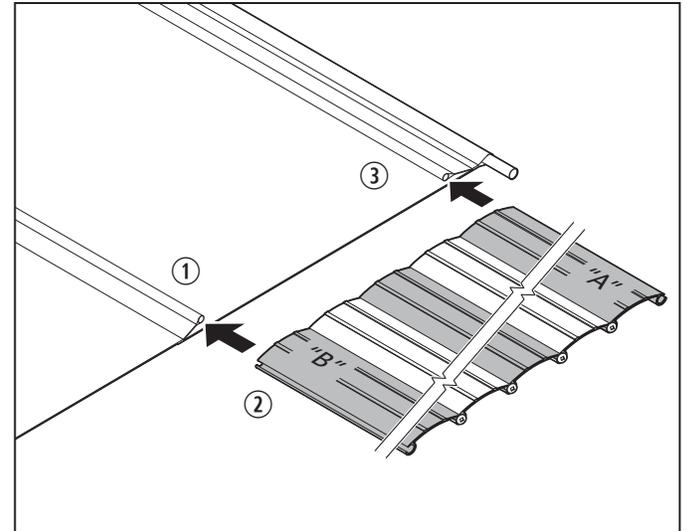
- ① Tab
- ② Bottom Channel
- ③ Slat Screw

**30** Preparing the Slats

- ① Slat A (Top Slat)
 - ② Bottom Channel
 - ③ Top Channel
 - ④ Slat B (Typical Slat)
 - ⑤ Channel
 - ⑥ Tab
3. Insert the bottom channel of slat A onto the tab of top slat B. See Figure 29 & Figure 30.
 4. Slide slat A forward until it is centered on slat B.
 5. Reinstall the two slat screws (one at each end) to secure slat A to top slat B. See Figure 25 & Figure 29.

6.2.2 Installing a Metal Weathershield

This subsection installs a new metal weathershield onto old awning fabric, or reinstalls the existing metal weathershield onto new awning fabric.

**31** Inserting the Weathershield onto the Awning Fabric

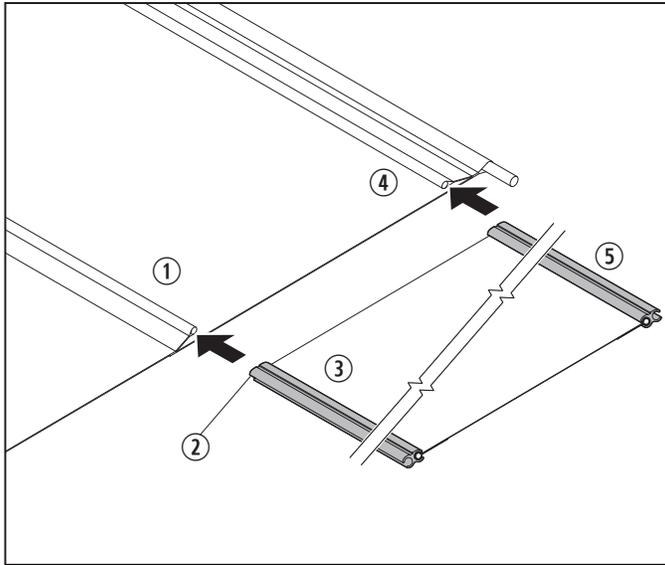
- ① Bottom Slat Rope
- ② Bottom Channel
- ③ Top Slat Rope

1. Remove (file) any sharp edges inside the channels (both open ends) of bottom slat B, and top slat A. See Figure 25 & Figure 30.

- i** These channels are attached to the awning fabric.
2. Insert the weathershield onto the awning fabric. See Figure 31.
 - a. The bottom channel of slat B corresponds to the bottom slat rope of awning fabric.
 - b. The top channel of slat A corresponds to the top slat rope of awning fabric.
 3. Slide the weathershield forward until centered on the awning fabric. See Figure 31.
 4. Secure the weathershield to the awning fabric. See Figure 25, Figure 30, & Figure 31.
 - a. Install the two set screws (one at each end) to secure the top channel of slat A to the top slat rope of the awning fabric.
 - b. Install the two set screws (one at each end) to secure the bottom channel of slat B to the bottom slat rope of awning fabric.

6.2.3 Installing a Vinyl Weathershield

This subsection installs a new vinyl weathershield onto old awning fabric, or reinstalls the existing vinyl weathershield onto new awning fabric.



32 Installing Vinyl Weathershield

- | | |
|--------------------|-----------------|
| ① Bottom Slat Rope | ④ Top Slat Rope |
| ② Bottom Channel | ⑤ Top Hinge |
| ③ Bottom Hinge | |

1. Insert the weathershield onto the awning fabric.
 - a. The bottom channel of the (bottom) hinge corresponds to the bottom slat rope of awning fabric.
 - b. The top channel of the (top) hinge corresponds to the top slat rope of awning fabric.
2. Slide the weathershield forward until centered on the awning fabric.
3. Secure the weathershield to the awning fabric. See Figure 26 & Figure 32.
 - a. Install the two set screws (one at each end) to secure the top channel of the top hinge to the top slat rope of awning fabric.
 - b. Install the two set screws (one at each end) to secure the bottom channel of the bottom hinge to the bottom slat rope of awning fabric.

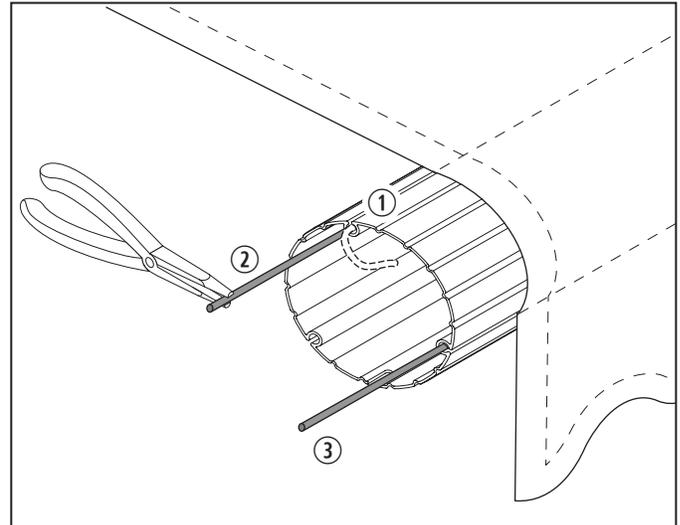
6.3 Preparing for the Torsion, Idler, and Drive Replacement

This section applies to the torsion, idler, and drive assembly replacement.

- i** If only the weathershield was replaced, skip to section "Complete the Installation" on page 29.
- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

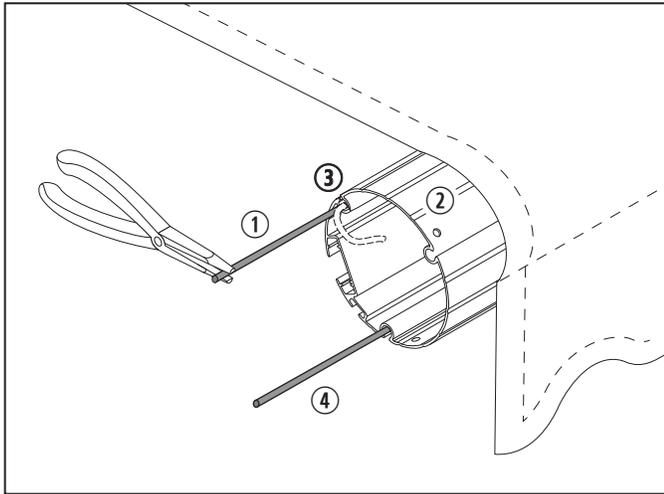
The following steps apply to both old and new awning fabric. However, completing these steps varies:

- New awning fabric: The following steps must be performed.
- Old awning fabric: The following steps must be reviewed to verify the installation is correct.



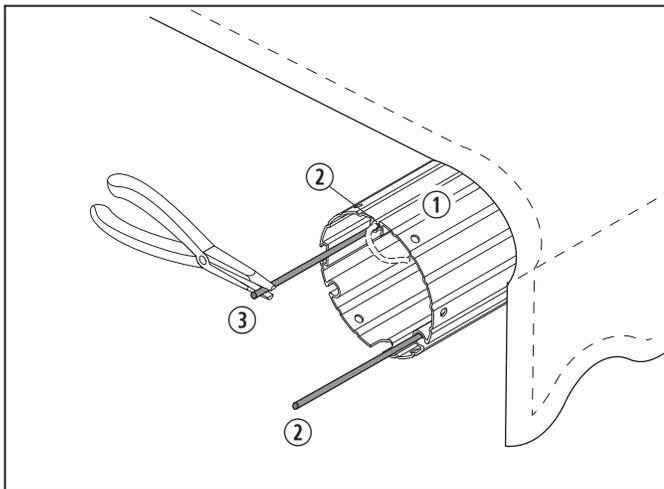
33 Reviewing Fabric Placement on a Roller Tube

- | | |
|--------------------|----------------|
| ① Fabric Rope Slot | ③ Valance Rope |
| ② Fabric Rope | |



34 Reviewing Fabric Placement on a Power Channel Roller Tube

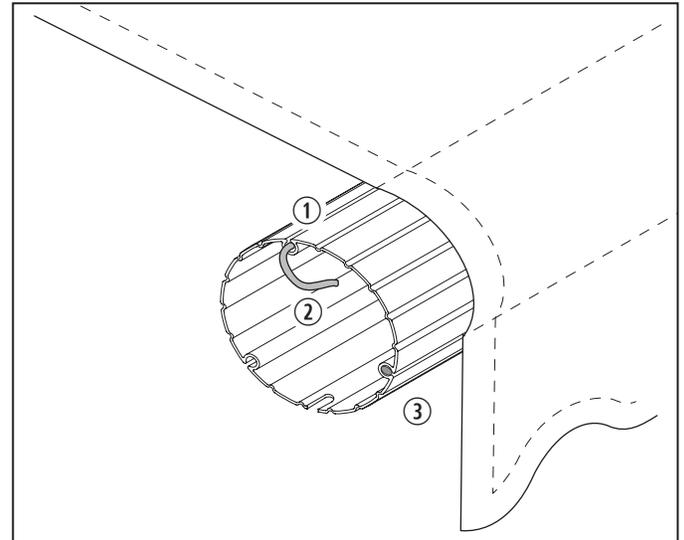
- ① Fabric Rope
- ② Power Channel
- ③ Fabric Rope Slot
- ④ Valance Rope



35 Reviewing Fabric Placement on an LED Roller Tube

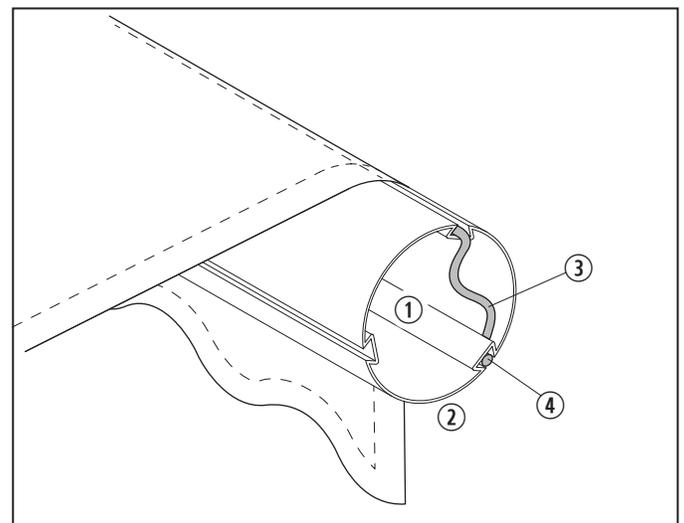
- ① LED Channel
- ② Fabric Rope
- ③ Fabric Rope Slot
- ④ Valance Rope

1. Be sure the awning fabric is centered on the roller tube. See Figure 27.
2. Pull and stretch the fabric rope and bend the rope over toward the center of the roller tube. See Figure 33, Figure 34, & Figure 35.
3. Be sure the fabric rope locks securely into the notch, if applicable, at the end of the fabric rope slot.



36 Aluminum Roller Tube

- ① Roller Tube Edge
- ② Fabric Rope
- ③ Valance Rope



37 Steel Roller Tube

- ① Valance Rope Slot
- ② Fabric Rope
- ③ Valance Rope
- ④ Roller Tube Edge

i Steps 4 and 5 help prevent interference with the torsion or drive assembly, and with shifting awning fabric.

4. Trim the fabric rope length using one of the following procedures based on the roller tube material.
 - a. Aluminum roller tube: Trim the fabric rope 2 in. (51 mm) beyond the edge of the roller tube. See Figure 36.

- b. Steel roller tube: Trim the fabric rope leaving enough length to wedge behind the valance rope slot inside roller tube. See Figure 37.
5. Trim the valance rope flush with the edge of the roller tube. See Figure 36 & Figure 37.
6. Repeat steps 1 through 5 for the opposite side.

6.4 Replacing the Torsion

⚠ WARNING: IMPACT OR PINCH HAZARD.

Use extreme care when winding or unwinding the top casting. If **not** controlled, rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or roller tube quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

NOTICE: Do **not** use the short slot reserved for manual awnings with heavy duty torsions.

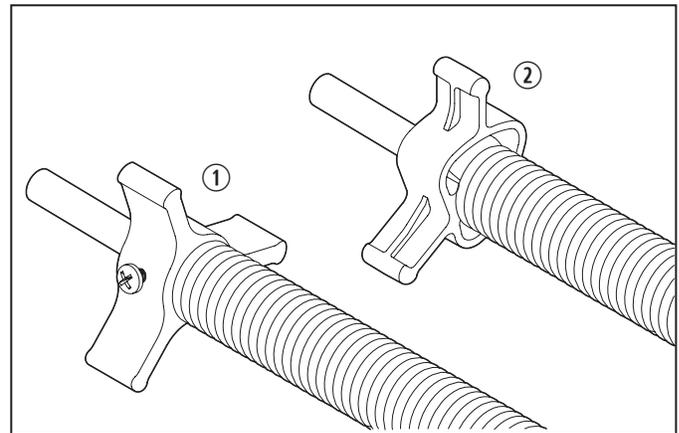
This section applies to the awning fabric, roller tube, and torsion replacement.

- i** To replace the drive assembly only, skip to section "Replacing the Drive Assembly" on page 27.
- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

6.4.1 Preparing the Torsion

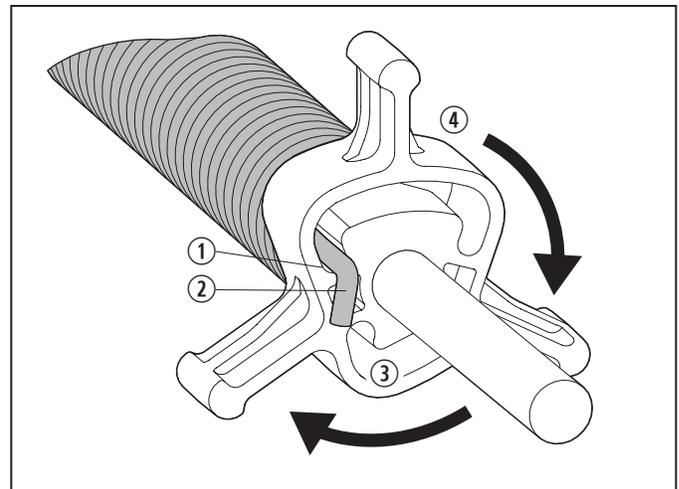
This subsection applies to torsions equipped with a slotted stabilizer. See Figure 38.

- i** If the torsion is equipped with an older style stabilizer (without slots), skip to subsection, "Installing the Torsion" on page 23.



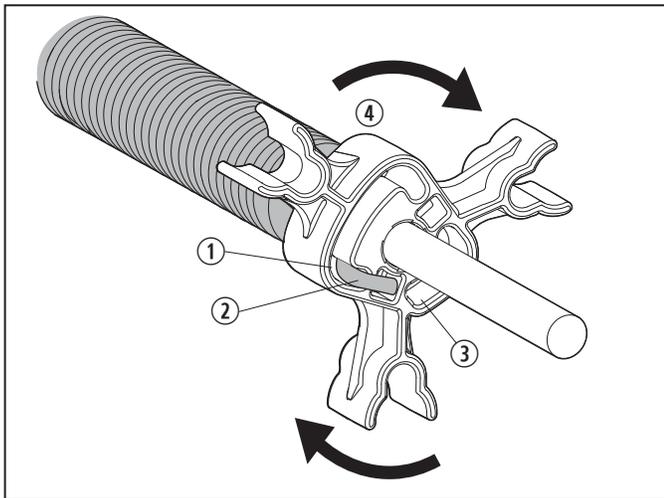
38 Torsion Stabilizer Identification

- ① Old Style - No Slots
- ② New Style - Slotted



39 Torsion Spring Hook

- ① Bend Long Slot - Standard Duty
- ② Torsion Spring Hook
- ③ Short Slot - Heavy Duty
- ④ Stabilizer

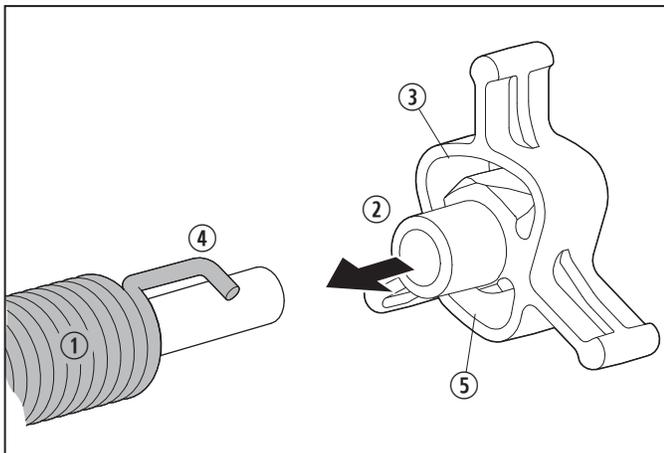


40 Seating the Slotted Stabilizer

- ① Bend Long Slot - Standard Duty
- ② Torsion Spring Hook
- ③ Short Slot - Heavy Duty
- ④ Stabilizer

1. Make sure the slotted stabilizer is seated securely on the new torsion assembly. See Figure 39 & Figure 40.

i The torsion spring hook must protrude through the stabilizer slot, and fully engage the bend of the slot.



41 Stabilizer Hub Placement

- ① Torsion Rod
- ② Hub Stabilizer
- ③ Long Slot - Standard Duty
- ④ Torsion Spring Hook
- ⑤ Short Slot - Heavy Duty

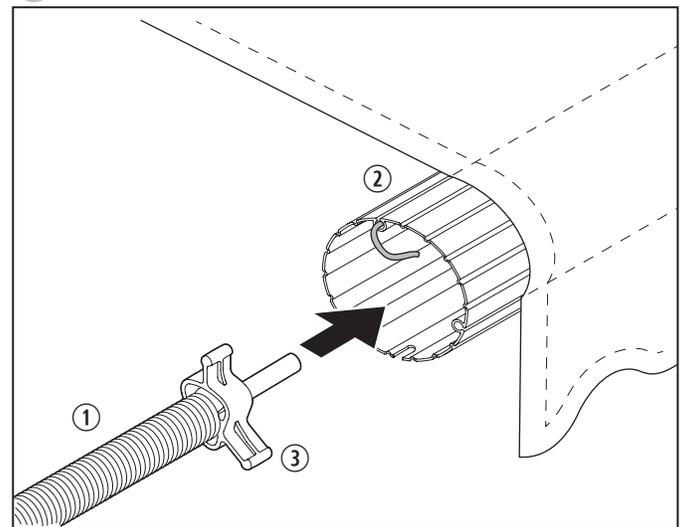
2. If the stabilizer is seated securely, skip to the subsection, "Installing the Torsion" on page 23. If the stabilizer is loose, skip to step 3.
3. Place the stabilizer onto the torsion rod with the hub facing toward the torsion. See Figure 41.
4. Slide the stabilizer toward the torsion until the hub seats inside the torsion spring, and torsion spring hook passes through the long (standard duty) stabilizer slot. Do not use the short slot. See Figure 39 & Figure 41.
5. Turn the stabilizer toward the point of the torsion spring hook until the hook snaps securely into the bend of the long (standard duty) stabilizer slot. See Figure 39.

6.4.2 Installing the Torsion

This subsection installs the torsion.

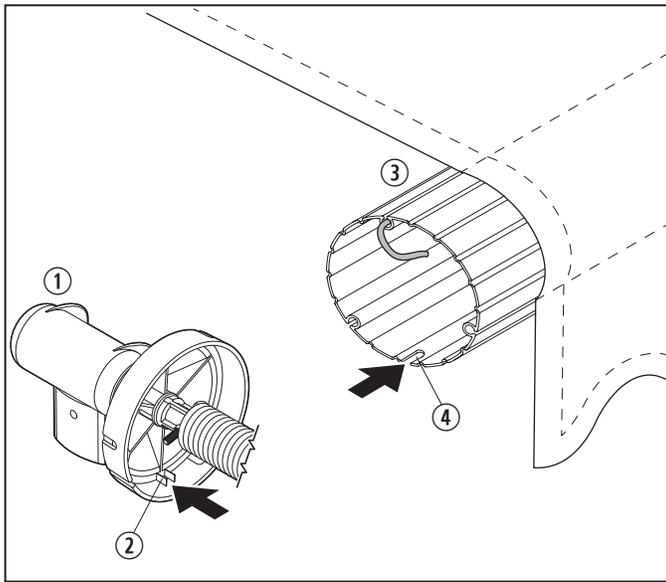
1. Be sure the fabric rope is secured correctly inside the roller tube. See Figure 36 & Figure 37.

i Do **not** cut the fabric rope again.



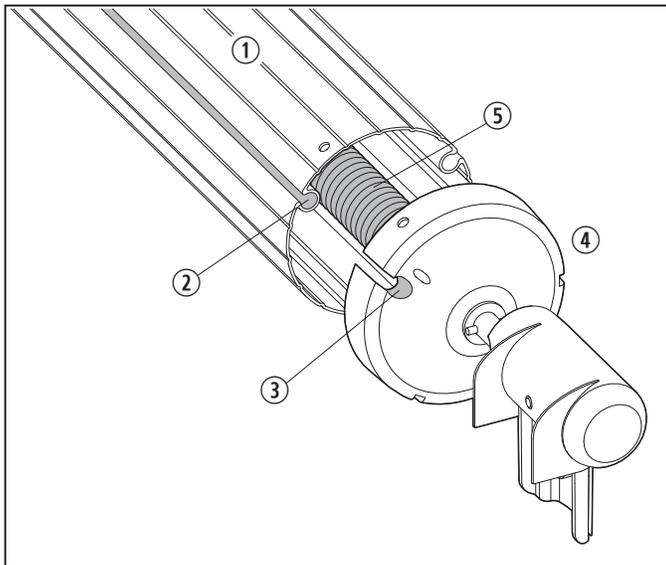
42 Inserting the Torsion Assembly into the LH Roller Tube End

- ① Torsion Assembly
 - ② Roller Tube
 - ③ Stabilizer
2. Insert the torsion assembly into the LH end of the roller tube.



43 Inserting a New Torsion Assembly on an Old Roller Tube

- ① LH End Cap
- ② Alignment Tabs
- ③ Roller Tube
- ④ Notch



44 Standard Roller Tube

- ① Roller Tube
- ② Roller Tube Hole
- ③ Empty Slot
- ④ End Cap
- ⑤ Torsion

i The procedure to follow below depends on whether the roller tube is notched.

3. Align the end cap to the roller tube using one of the following procedures.

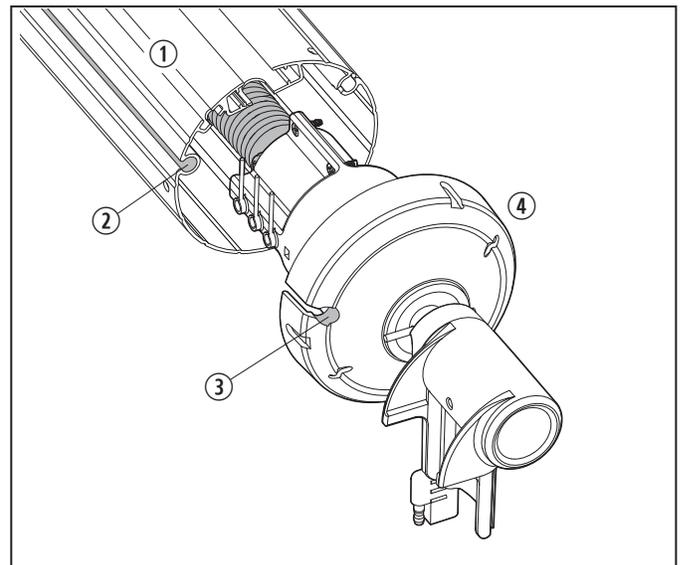
- a. Notched (new) roller tube:
Align alignment tabs on the end cap to notch in the roller tube. See Figure 43.
- b. No notch (older) roller tube:
Align the hole in the end cap to the empty (auxiliary) slot in the roller tube. See Figure 44.

i The rivet holes in the end cap and roller tube must also align.

i If a new torsion is installed on an old roller tube (no notch), the alignment tabs inside the end cap must be removed (broken off). See Figure 43.

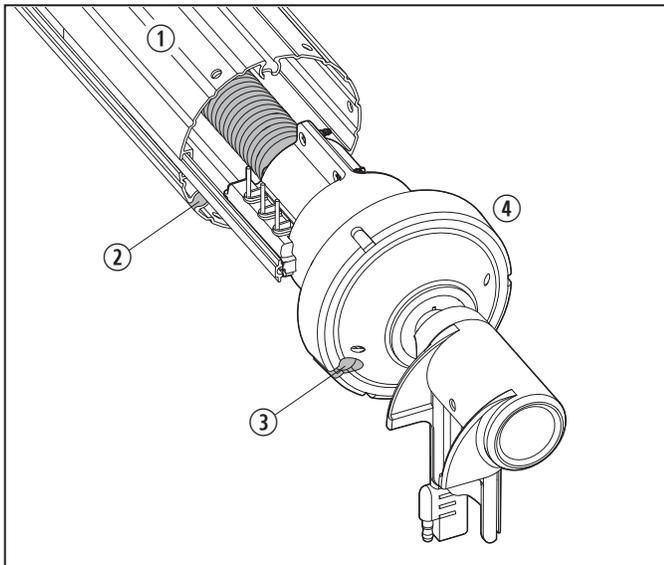
4. While maintaining alignment, insert the stabilizer end of the torsion into the roller tube.

5. Slide the torsion inside the roller tube until the end cap seats onto the end of the tube.



45 Power Channel Roller Tube

- ① Roller Tube - Power Channel
- ② Roller Tube Hole
- ③ Empty Slot
- ④ End Cap

**46** LED Roller Tube

- ① Roller Tube - LED
- ② Roller Tube Hole
- ③ Empty Slot
- ④ End Cap

6. Secure the end cap to the roller tube. See Figure 17, Figure 44, Figure 45, or Figure 46.
 - a. Be sure the end cap aligns correctly and fully seats on the roller tube.
 - b. If the roller tube has pre-drilled rivet holes, skip to step d.
 - c. Drill 3/16 in. (5 mm) diameter holes into the roller tube using the end cap rivet holes as a guide.
 - d. Insert 3/16 in. x 3/8 in. (5 mm x 10 mm) blind rivets through the rivet holes in the end cap. Secure to the roller tube.

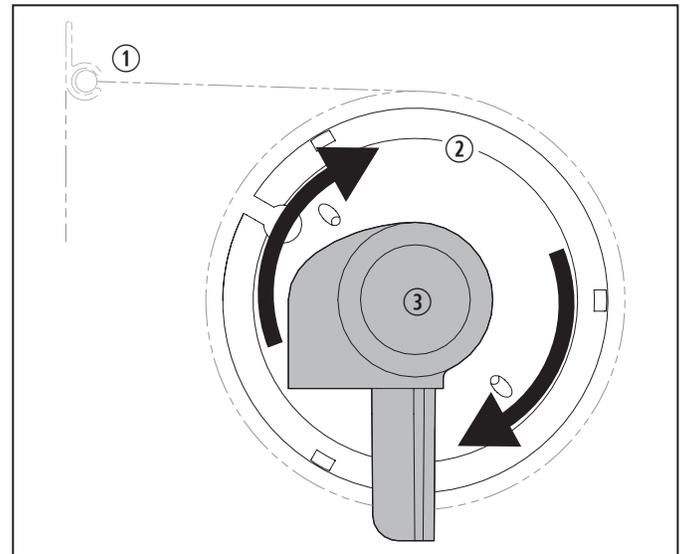
6.4.3 Winding the Torsion

⚠ WARNING: IMPACT OR PINCH HAZARD.

Use extreme care when winding or unwinding the top casting. If **not** controlled, rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or roller tube quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

This subsection winds the torsion.

1. Place the correct torsion crank assembly adapter over the LH top casting.
2. Place and tighten the hex head screw through the adapter and into the top casting. See Figure 18.

**47** LH Torsion Winding

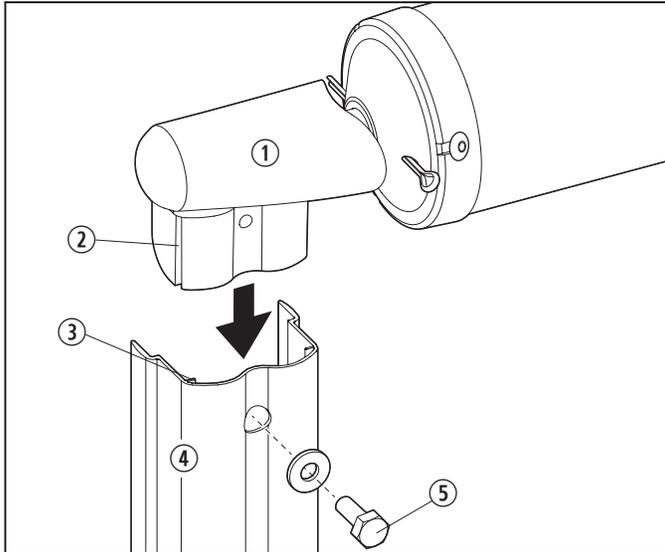
- ① Awning Rail
- ② LH End Cap
- ③ LH Top Casting

3. Note the position of the LH top casting for the winding start position. Slowly turn the top casting nine turns (revolutions) clockwise to apply the torsion spring tension.
 - i** If the awning is installed on the RV and already extended two revolutions from the awning rail, add two turns for a total of eleven.
4. Turn the top casting (or rotate the FRTA) until the pin near the top casting is parallel with the two slots in the end cap. See Figure 1.
 - i** The hole in the torsion rod must align with the slots in the end cap.
5. Insert a 7/64 in. x 2-3/4 in. (3 mm x 7 mm) cotter pin through the end cap and torsion rod. Tape the head of the cotter pin to the end cap to secure. See Figure 1.

6.4.4 Reattaching the Torsion to the HDWR

NOTICE: Do **not** force the top casting into the front channel. The top casting groove should slide easily into the front channel (tongue). Otherwise, damage to the top casting could occur.

This subsection reattaches the torsion to the HDWR.



48 Securing the Front Channel

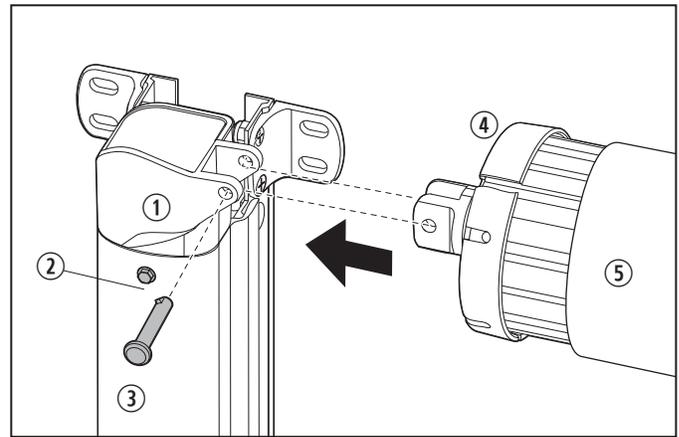
- | | |
|------------------|------------------|
| ① LH Top Casting | ④ Front Channel |
| ② Groove | ⑤ Hex Head Screw |
| ③ Tongue | |

1. Insert the LH top casting into the corresponding front channel. See Figure 45.
2. Reinstall the hex head screw and washer to secure the front channel to the top casting. See Figure 45.

6.5 Replacing the LH Idler Assembly

This section only applies to the 9200 and 9200 LED Awnings.

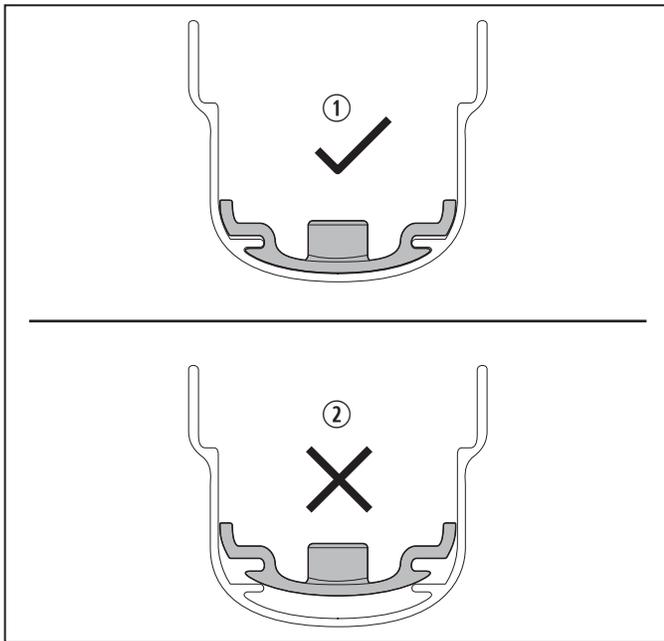
- i** To replace the weathershield or drive assembly only, skip to section, "Replacing the Drive Assembly" on page 27.
- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.



49 Securing the Top Casting

- | | |
|------------------|--------------|
| ① LH Top Casting | ④ LH End Cap |
| ② Hex Head Screw | ⑤ FRTA |
| ③ Slic Pin | |

1. Verify all safety precautions are in place.
2. Secure the end cap to the roller tube.
 - a. Make sure the end cap aligns correctly and fully seats on the roller tube.
 - b. If the roller tube has pre-drilled rivet holes, skip to step d.
 - c. Drill 3/16 in. (5 mm) diameter holes into the roller tube using the rivet holes in the end cap as a guide.
 - d. Insert 3/16 in. x 3/8 in. (5 mm x 10 mm) blind rivets through the rivet holes in the end cap and secure to the roller tube.
3. Secure the top casting to the end cap.
 - a. Align the LH end cap with the top casting tabs.
 - b. With the end cap tabs inside the top casting tabs, align the holes.
 - c. Fully insert the Slic pin to hold the end cap to the top casting.

**50** Correct Tongue Groove Alignment

① Correct

② Incorrect

4. Re-attach the idler to the hardware front channel.
 - a. Insert the LH top casting into the LH front channel.
 - b. Align the groove and tongue.
 - c. Reinstall the hex head screw and the lock washer to secure the top casting to the front channel.

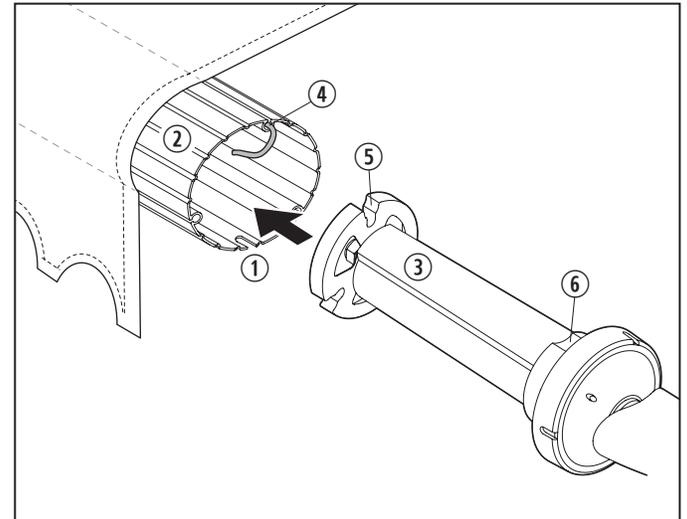
6.6 Replacing the Drive Assembly

This section replaces the drive assembly.

- i** To finish the torsion replacement only, skip to section, "Complete the Installation" on page 29.
- i** If the awning is installed on the RV, extend the FRTA two revolutions from the awning rail.

6.6.1 Placing the Drive Assembly into the Roller Tube

This subsection places the drive assembly into the roller tube.

**51** Placing the Drive Assembly into the Roller Tube

- | | |
|-----------------------------------|----------------------|
| ① Notch (to Align Tab in End Cap) | ④ Fabric Rope Slot |
| ② Roller Tube | ⑤ Stabilizer Slot |
| ③ Drive Assembly | ⑥ Motor Housing Slot |

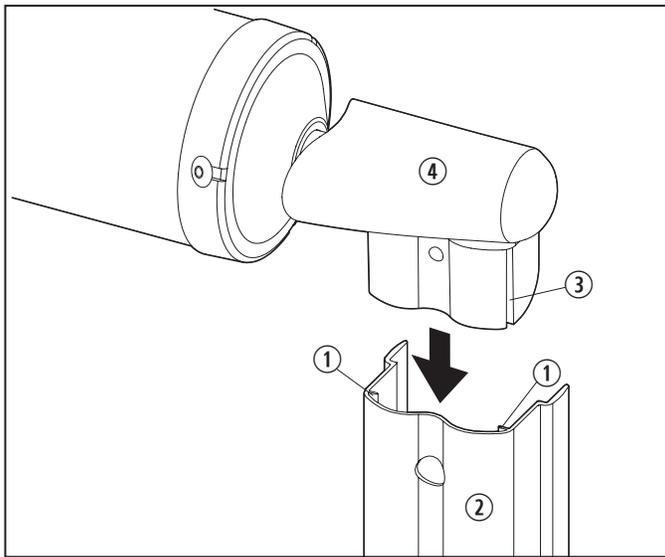
1. Insert the drive assembly into the RH end of the roller tube. See Figure 22 & Figure 51.
 2. Align the stabilizer and motor housing slots on the drive assembly to the fabric rope slot in the roller tube.
 3. Insert the drive assembly into the roller tube until the motor housing slot engages with the fabric rope slot, and the end cap is seated on the roller tube.
- i** Make sure the fabric rope is folded back and locked into the notch at the end of the fabric rope slot in the roller tube. Do not cut the fabric rope again.

6.6.2 Attaching the Drive Assembly to the Front Channel

⚠ WARNING: IMPACT OR CRUSH HAZARD.

The top casting **must** align and seat correctly in the front channel. Otherwise, the top casting could move unpredictably and become unstable, causing the awning to detach, bend, or collapse. Failure to obey this warning could result in death or serious injury.

This subsection reattaches the drive assembly.



52 Attaching the Drive Assembly

- ① Tongue
- ② Front Channel
- ③ Groove
- ④ RH Top Casting (WeatherPro)

1. Rotate the new drive assembly until the RH top casting is parallel and aligns with the front channel.
 - i** Both grooves must align on the RH top casting to slide easily into both tongues on the front channel.
2. Insert the RH top casting into the front channel.
 - i** Both RH top casting grooves should engage both tongues in the front channel. If the top casting does not slide easily into the channel, repeat step 1.
3. Reinstall the hex head screw and washer to secure the RH top casting to the front channel. Tighten to 65–80 in·lb (7.3–9 N·m) torque. See Figure 22.

6.6.3 Releasing the RH Arm Assembly

⚠ WARNING: IMPACT OR CRUSH HAZARD.

The arm assemblies are under tension from the gas strut. Hold the arm assemblies and FRTA securely before removing the ties. Otherwise, the arms will extend quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

- i** If the awning is **not** installed on the RV, do **not** remove the nylon ties. Skip to the subsection, “Securing the Drive Assembly to the Roller Tube” on page 28.

This subsection only applies to awnings installed on the RV.

1. While holding the RH arm assembly front channel and FRTA securely, cut the nylon ties around the front and back channels.
2. Allow the front channel to open slowly until the awning fabric is taut.

- i** If standing on a stepladder, position the stepladder to allow the arm assembly front channel to open.

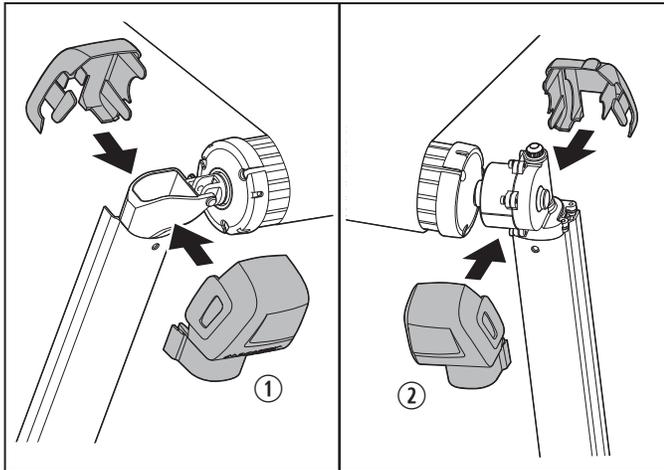
6.6.4 Securing the Drive Assembly to the Roller Tube

This subsection secures the drive assembly to the roller tube.

1. Attach the RH end cap to the roller tube. See Figure 22.
2. Turn the end cap until all the rivet holes on the end cap and roller tube align.
3. Make sure the end cap is fully seated on the roller tube.
4. Insert 3/16 in. x 3/8 in. (5 mm x 10 mm) blind rivets through the rivet holes in the end cap and secure to the roller tube.

6.6.5 Replacing the Plastic Covers

This section only applies to the plastic covers for the 9200 and 9200 LED awnings.



53 Replacing the 9200 and 9200 LED Plastic Covers

① LH Plastic Cover

② RH Plastic Cover

Snap on the plastic covers at each end of the awning.

7 Complete the Installation

This section covers additional procedures that must be performed to complete the replacement.

i These procedures will vary in detail based on the awning model. See the latest Installation Instructions for your specific awning model.

Additional procedures may include, but are not limited to, the following:

- Secure the awning fabric to the awning rail.
- Secure the HDWR to the RV.
- Remove the LH cotter pin (after the awning is installed).
- Remove the nylon ties (after the awning is installed).
- Connect the motor and switch wiring.
- Connect the LED wiring, if equipped.

8 Verify the Installation

8.1 Testing Operation

Operate the awning according to the Operating Instructions (or User's Guide) to verify all the parts are functioning correctly.

8.2 Securing the Awning for Travel

1. Fully close the awning. See "Close Awning" in the Operating Instructions (or User's Guide).
2. Verify the awning is secure for travel. See "Prepare Awning For Travel" in the Operating Instructions (or User's Guide).

9 Disposal



Place the packaging material in the appropriate recycling waste bins, whenever possible. Consult a local recycling center or specialist dealer for details about how to dispose of the product in accordance with all applicable national and local regulations.

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