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REPLACEMENT INSTRUCTIONS**RH Drive Assembly****WEATHERPRO & POWER PATIO****SERVICE INSTRUCTIONS****RH DRIVE ASSEMBLY
KIT****3310423.169(#)****3310423.177(#)**

Form No. 3315488.000 05/13
(French 3315489.000)
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LaGrange, IN 46761



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

INTRODUCTION

These instructions apply to powered patio awnings (hereinafter referred to as "awning," or "product"). The Fabric Roller Tube Assembly (hereinafter referred to as "FRTA") consists of a vinyl or acrylic fabric, roller tube, torsion assembly, and RH drive assembly. Some models may also include a weather shield with FRTA.

These instructions will ensure a properly installed, and properly functioning product.

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

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DOCUMENT SYMBOLS



Indicates additional information that is **NOT** related to physical injury.



Indicates step-by-step instructions.

IMPORTANT SAFETY INSTRUCTIONS

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

A. 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.

B. Understand Signal Words

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

⚠ 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 is used to address practices **NOT** related to physical injury.

C. Supplemental Directives



Read and follow all safety information and instructions to avoid possible injury or death.

Read and understand these instructions before [installing / using / servicing / performing maintenance on] this product.

Incorrect [installation / operation / servicing / maintaining] of this product can lead to serious injury. Follow all instructions.



The installation **MUST** comply with all applicable local and 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

CANADA

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

D. General Safety Messages

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

- This product **MUST** be [installed / serviced] by a qualified service technician.
- Do **NOT** modify this product beyond the scope of these service instructions. Modification (beyond these service instructions) can be extremely hazardous.
- **IMPACT OR CRUSH HAZARD.** This product should be installed in a controlled environment (inside). Do **NOT** install product during windy conditions, or when wind is expected. Otherwise, product could move unpredictably, become unstable, and could [detach / bend / collapse].

GENERAL INFORMATION

A. Scope Of Delivery

- (1) Drive Assembly
- (3) 3/16" x 3/8" Blind Rivets
- (1) 7/64" x 2-3/4" Cotter Pin
- (6) Nylon Wire Ties
- (1) Service Instructions

B. Required Tools

- Step Ladder
- Electric Drill
- 3/16" Drill Bit
- 7/16" Hex Nut Driver / Bit
- Riveting Tool
- Pliers
- Diagonal Cutters

REMOVE OLD DRIVE ASSEMBLY

i This section assumes awning is installed on RV. Most procedures within this section **MUST** be performed while on a stepladder.

A. Stage Awning For Procedure

Open (extend) awning approximately two revolutions (turns) of FRTA.

i See "Open Awning" in Operating Instructions (or User's Guide) for complete instructions.

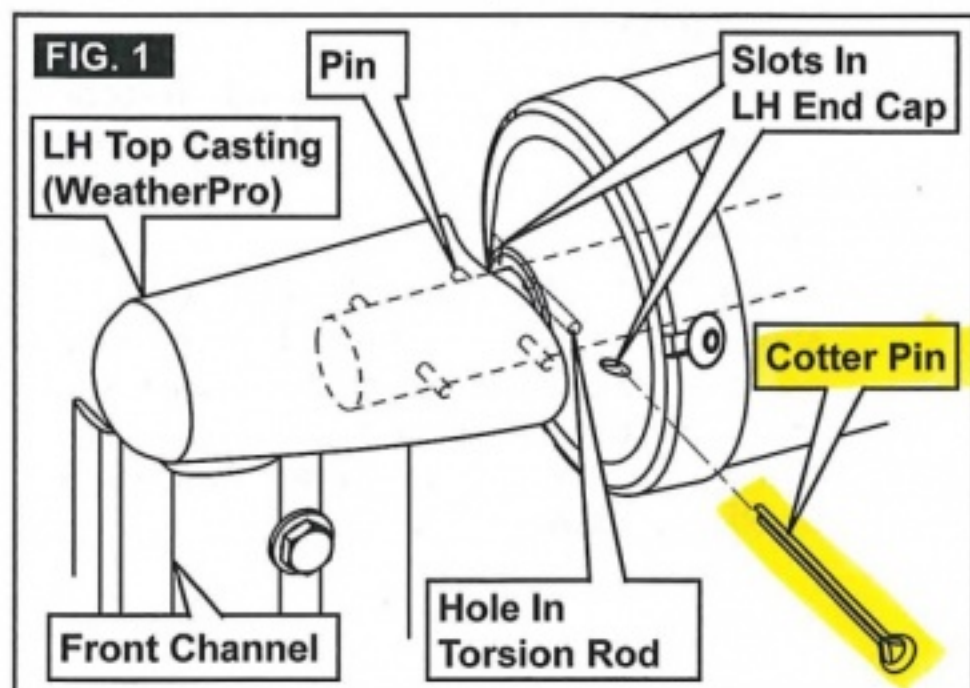
B. Pin LH Torsion

Pin LH torsion to prevent uncontrolled unwinding of spring, or unintended awning movement. See (FIG. 1).

1. Rotate FRTA until pin near LH top casting is parallel with the two slots in LH end cap.

i Power to awning is required to turn FRTA with awning motor.

Hole in torsion rod **MUST** align with slots in LH end cap.



2. Insert 7/64" X 2-3/4" cotter pin (provided) through end cap and torsion rod. Then tape head of cotter pin to end cap to secure in place.

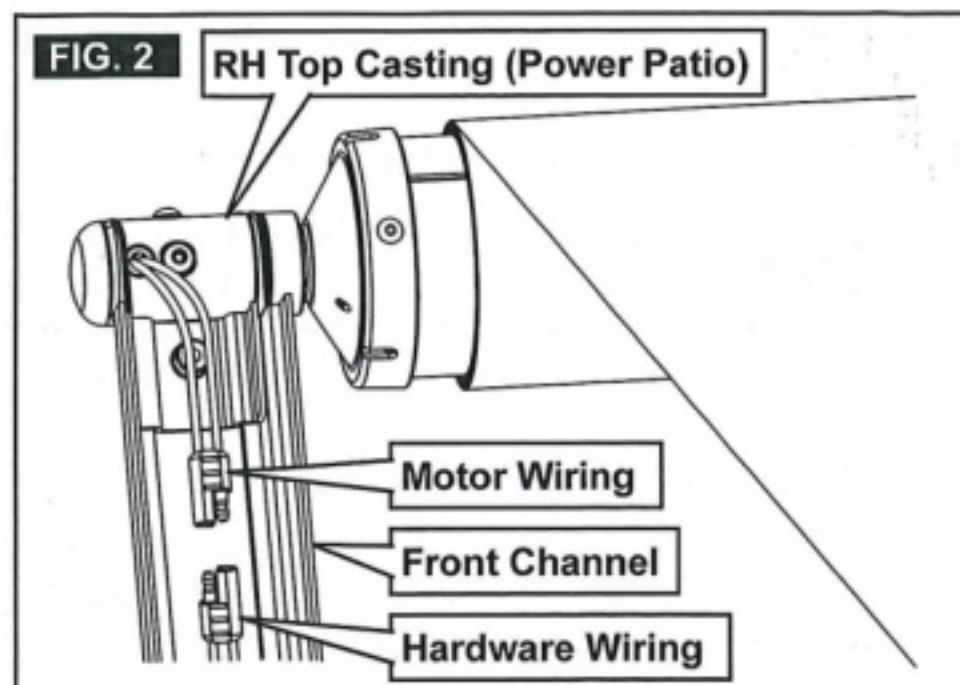
C. Secure LH Arm Assembly

1. Push front channel to close against back channel, and hold in place.
2. Wrap at least (2) nylon ties around front and back channel near LH top casting (as high as possible on arm assembly).

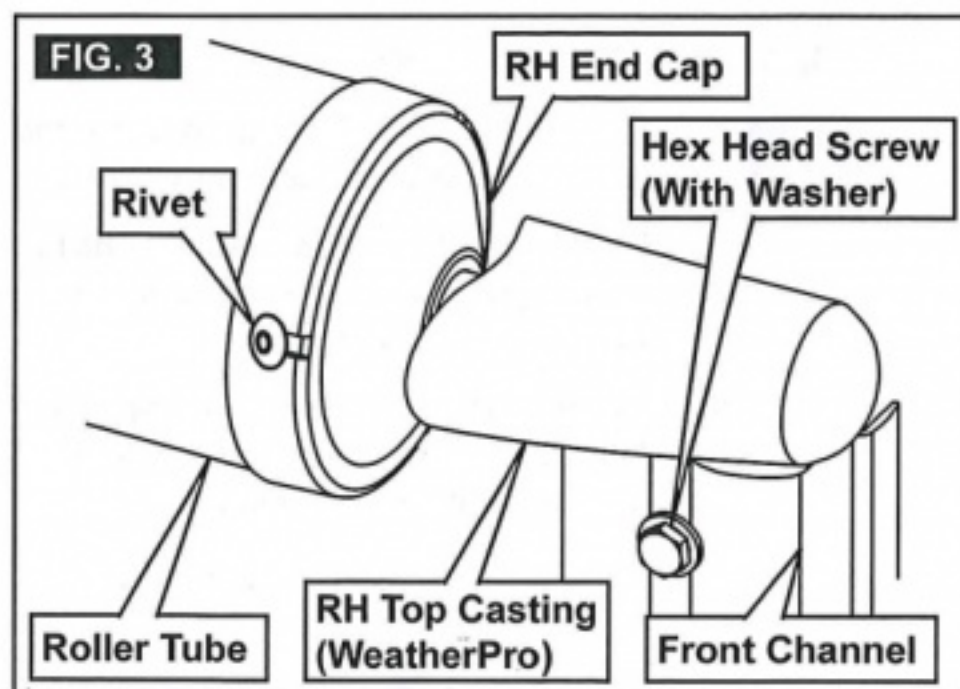
i The nylon ties will prevent arm assembly from extending.

D. Prepare Drive Assembly For Removal

1. Disconnect awning motor (RH drive assembly) from hardware wiring harness (inside front channel). See (FIG. 2).



2. Remove the (3) rivets securing RH end cap to roller tube. See (FIG. 3).
 - a. Drill a 3/16" diameter hole through center of rivet.
 - b. Remove rivet (with debris) and discard.
 - c. Repeat steps (a) through (b) for each rivet securing end cap to roller tube.



E. Secure RH Arm Assembly

1. Push front channel to close against back channel, and hold in place.
2. Wrap at least (2) nylon ties around front and back channel near LH top casting (as high as possible on arm assembly).

i The nylon ties will prevent arm assembly from extending.

F. Remove Drive Assembly

1. Carefully place new RH drive assembly safely within reach (near RH end cap).

i The RH drive assembly may be placed on step ladder or RV roof if it can be done safely.

REMOVE OLD DRIVE ASSEMBLY

2. Verify all safety precautions are in place before proceeding.

- a. **⚠ WARNING** IMPACT OR PINCH HAZARD. Do **NOT** remove top casting from front channel until torsion (rod) is securely pinned at end cap. Otherwise, rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or fabric roller tube quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

Make sure LH torsion is securely pinned. See subsection, "B. Pin LH Torsion" on page (4).

- b. **⚠ WARNING** IMPACT OR PINCH HAZARD. Do **NOT** remove top casting from front channel until ties are wrapped securely around each arm assembly. Arm assemblies are under tension from gas strut. Removing

these ties could allow arms to extend quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

Make sure **BOTH** arm assemblies are securely held with nylon ties. See subsection, "C. Secure LH Arm Assembly" on page (4) and "E. Secure RH Arm Assembly" on page (4).

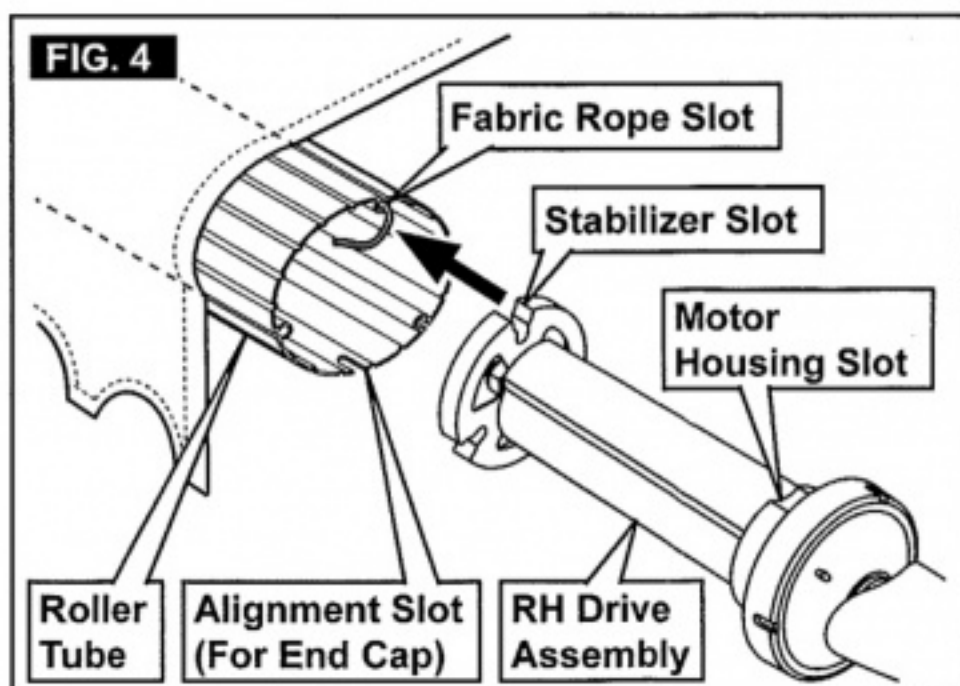
3. Using 7/16" hex nut driver, remove hex head screw (and washer) securing RH top casting to front channel. Save for reinstallation later. See (FIG. 3).
4. Lift RH top casting out from front channel. See (FIG. 3).
5. Slide RH drive assembly out from roller tube. Save for return to Dometic Corporation.
6. Remove burrs, and discard any rivet bodies and debris from roller tube.

INSTALL NEW DRIVE ASSEMBLY

i This section assumes awning is installed on RV. Most procedures within this section **MUST** be performed while on a stepladder.

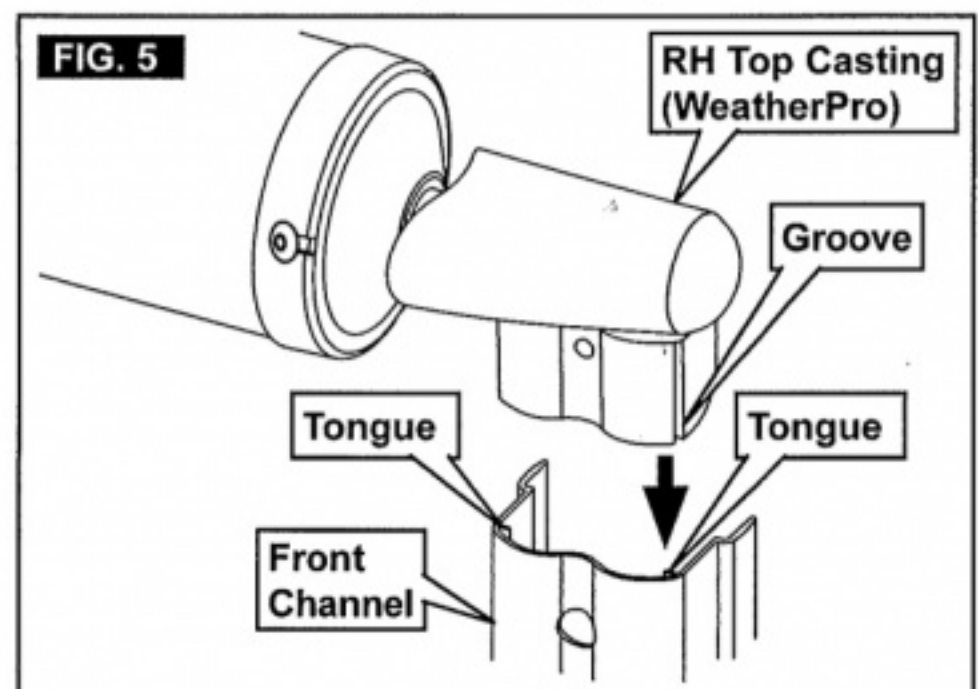
A. Place Drive Assembly Into Roller Tube

- i** 1. Insert RH drive assembly into roller tube. See (FIG. 3) & (FIG. 4).
 - a. Align stabilizer and motor housing slots (RH drive assembly) with fabric rope slot in roller tube.
 - b. Insert RH drive assembly into roller tube until motor housing slot is engaged with fabric rope slot, and RH end cap is seated on roller tube.
- i** Make sure fabric rope is folded back and locked into notch at end of fabric rope slot (in roller tube). Do **NOT** cut fabric rope.



B. Attach Drive Assembly To Front Channel

- i** 1. Rotate new RH drive assembly until RH top casting is parallel (aligns) with RH front channel. See (FIG. 5).
- i** Alignment **MUST** allow RH top casting (both grooves) to slide easily into front channel (both tongues).



2. **⚠ WARNING** IMPACT OR CRUSH HAZARD. Make sure top casting is aligned and seated correctly into front channel. Otherwise, top casting could move unpredictably and become unstable, causing awning to [detach / bend / collapse]. Insert RH top casting into front channel until seated securely. See (FIG. 5).

i Make sure both grooves in RH top casting fully engage both tongues in front channel. If top casting does **NOT** slide easily into front channel, repeat step (1).

INSTALL NEW DRIVE ASSEMBLY

- Using 7/16" hex nut driver, reinstall hex head screw (and washer) to secure RH top casting to RH front channel. Tighten to 65-80 in-lb torque. See (FIG. 3).

C. Release RH Arm Assembly


⚠ WARNING IMPACT OR PINCH HAZARD. Arm assemblies are under tension from gas strut. Hold arm assemblies and FRTA securely **BEFORE** removing ties. Otherwise, arms will extend quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

While holding RH arm assembly (front channel) and FRTA securely, cut nylon ties around front and back channels with diagonal cutters. Then carefully allow front channel to open slowly until awning fabric is taut.


- i** If performed while on a stepladder, make sure stepladder is positioned to allow arm assembly (front channel) to open.

D. Secure Drive Assembly To Roller Tube

Attach RH end cap to roller tube. See (FIG. 3).

-  1. Turn RH end cap until all rivet holes / slots on RH end cap and roller tube align.
2. Make sure RH end cap is fully seated on roller tube.
3. Insert 3/16" x 3/8" blind rivets (provided) through rivet holes in RH end cap and secure to roller tube.

E. Release LH Arm Assembly And Torsion


-  1. **⚠ WARNING** IMPACT OR PINCH HAZARD. Arm assemblies are under tension from gas strut. Hold arm assemblies and FRTA securely **BEFORE** removing ties. Otherwise, arms will extend quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

While holding LH arm assembly (front channel) and FRTA securely, cut nylon ties around front and back channels with diagonal cutters. Then carefully allow front channel to open slowly until

awning fabric is taut.

- i** If performed while on a stepladder, make sure stepladder is positioned to allow arm assembly (front channel) to open.

- ⚠ WARNING** IMPACT OR PINCH HAZARD. Do **NOT** remove cotter pin from torsion rod (at end cap) until **BOTH** top castings are secured to corresponding front channels. Otherwise, rapid casting spin off will occur. Spring tension will attempt to spin the hardware and/or fabric roller tube quickly and unexpectedly. Failure to obey this warning could result in death or serious injury.

 Remove cotter pin from LH torsion rod (LH end cap). See (FIG. 1).

- i** Removing cotter pin will release factory preset torsion (spring) tension.


- Straighten end of cotter pin (if bent), and remove tape securing cotter pin to end cap.
- Rotate fabric roller tube (as if unrolling awning) by pulling bottom of tube toward you.

- i** This will reduce pressure on cotter pin for easier removal.

- While holding fabric roller tube, pull cotter pin out and discard.

- i** It may be necessary to use pliers for removing cotter pin.

F. Electrical Connections

-  1. Connect awning motor wiring (RH drive assembly) to hardware wiring harness. See (FIG. 2).

- i** Remove emergency harness or disconnect temporary leads (if applicable) before making permanent wiring connections.

- NOTICE** Do **NOT** pinch wiring or allow wiring to rub against sharp edges. If wiring is damaged, it **MUST** be replaced by a qualified service technician.


Secure any slack motor / hardware wiring behind wire cover (inside front channel) to prevent pinched or damaged wiring during awning operation. See (FIG. 2).

VERIFY INSTALLATION

A. Test Operation

With power applied to awning, operate awning according to Operating Instructions to verify all parts are functioning correctly.

B. Secure Awning For Travel

-  1. Fully close awning. See "Close Awning" in Operating Instructions.

2. Verify awning is secure for travel. See "Prepare Awning For Travel" in Operating Instructions.

C. Return OLD Drive Assembly

Fill out the card included with this kit, and return with old drive assembly to Dometic Corporation.