

# FeherGuard

ASSEMBLY INSTRUCTIONS

## AUTO REEL

Automatic Rollup  
FG-AR

**PLEASE READ ENTIRE INSTRUCTIONS CAREFULLY BEFORE PROCEEDING**

### Four Easy Steps:

If you need additional assistance, contact us at [info@feherguard.com](mailto:info@feherguard.com) or call 905-876-4766 Monday to Friday 8:30 a.m. to 5:00 p.m. Eastern Time.

**Before starting assembly, trim cover so it does not touch the sides of your pool when rolling up.**

**Recommended Solar Cover is 12 mil with round bubbles.**

**Allow an extra 4" (10 cm) on cover length if installing the reel at mid-point or off-center.**

### REEL SYSTEMS COMPONENTS AND PREPARATION:

#### Getting started:

Ensure that your system has two cartons consisting of one end carton and one tube set carton.

**Tools required for assembly:** Recommend Safety Glasses

- Portable drill
- Tape measure
- Pencil and Scissors



**Tube Carton Parts List:**  
2 end tubes and 1 center tube

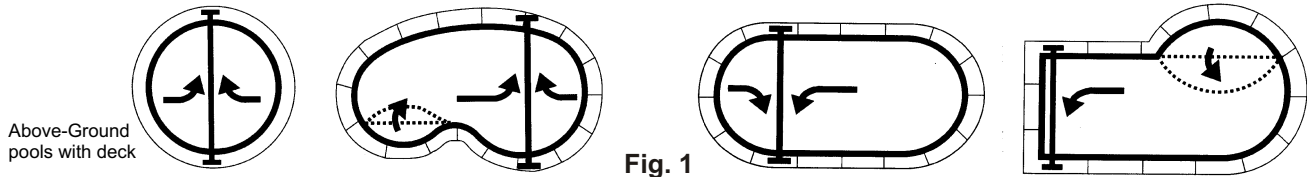
#### AUTO REEL Parts List:

- 1 Bracket End
- 1 Bearing
- 1 Auto End
- 1 Handle
- 2 Plugs for L16M, L18M & L20M Tubes
- 1 Water Discharge Hose
- 1" Quick-Connect for Garden Hose (Garden Hose not provided)
- Hardware Kit: 10 Strap Plates
- 10 Straps
- 10 Plastic Screws
- 29 Self-drilling Metal Screws

### STEP 1: SOLAR REEL PLACEMENT:

*Optional Locking Casters are available: Part Name FG-CK*

- A. Determine the best location for the reel system. The widest point of the pool is the preferred locations (see Fig. 1 below).
- B. At the determined location, measure the width of the pool and add 6" (15 cm).



Above-Ground pools with deck

Fig. 1

### STEP 2: TUBE ASSEMBLY

- A. Ensure minimum of each end tube is inside center tube (see table below right). Less than minimum insert causes screws to loosen and/or tubes to split.

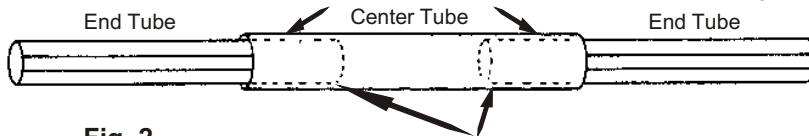


Fig. 2

**Insert both end tubes equal distance into center tube and mark on center tube where inner tubes end**

Tube	Min. Insert	Max. Width	Max. Wet Cover Weight	Max. Cover
L16M	9"	16'6" (5.0 m)	60# (27.3kg)	16x32
L18M	9"	18'6" (5.7 m)	60# (27.3kg)	18x36
L20M	12"	20'6" (6.3 m)	60# (27.3kg)	20x40

Mill tubes tarnish over time. This does not affect tube integrity.

**THIS STEP REQUIRES A TOTAL OF 12 SELF-DRILLING SCREWS DO NOT pre-drill holes or over-tighten screws.**

- B. Lock tubes together by rotating the center tube in the opposite direction to end tube. HOLD TUBES LOCKED WHILE YOU INSTALL FIRST SELF-DRILLING SCREW ON A DRILL LINE, 1" (2.5 cm) back from end of center tube at Location "C1" (see Fig. 3 & 4).
- C. Place 2 more self-drilling screws at Location "C2" & "C3" - 1 screw at every second drill line around tubes (see Fig. 3).
- D. At "D" locations install 3 screws around the center tube at every second drill line, 1" (2.5 cm) back from where you marked the end of the inner tube from Fig. 2A (see also Fig. 3).
- E. Repeat for other end tube.

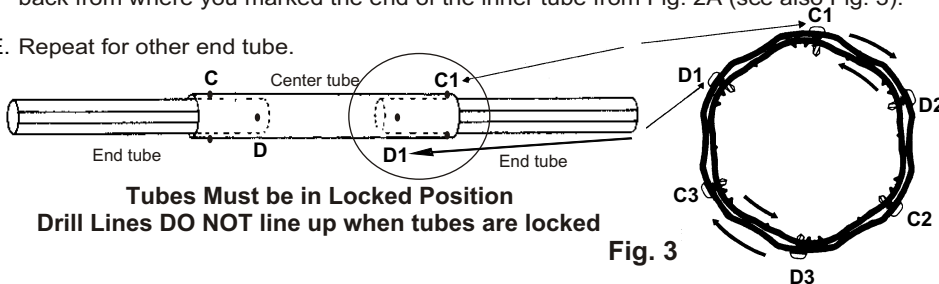


Fig. 3

**Tubes Must be in Locked Position  
Drill Lines DO NOT line up when tubes are locked**

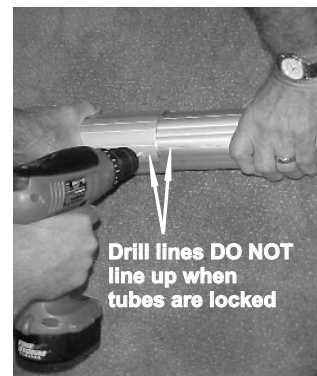


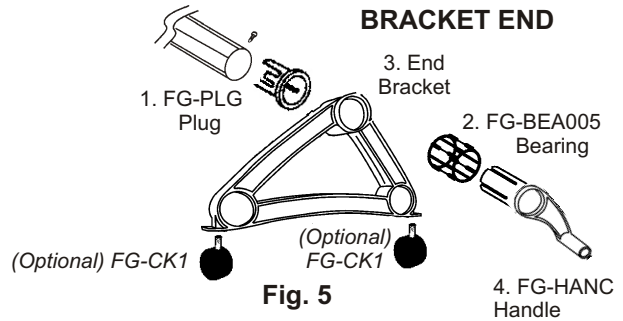
Fig. 4

### STEP 3A: ASSEMBLE BRACKET END

Assemble in numerical order (see Fig. 5):

- Insert Plug (#1) into End Tube.
- Place Bearing (#2) inside End Bracket
- Push Handle (#4) through Bearing and fully into Tube with Plug.
- Insert 3 self-drilling screws (#5) through tube in line with bumps on plug rim (at Long Prongs) and 1" (2.5 cm) from tube end. (see Fig. 7).

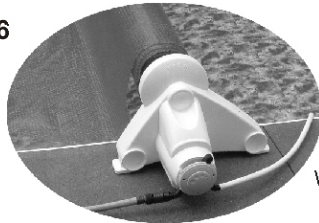
5. Insert 3 Screws, 1" (2.5 cm) from tube end (See Fig. 7)



### STEP 3B: ASSEMBLE AUTO END

- Insert Plug (#1) into End Tube.
- Push Tube with Plug fully onto Auto End shaft.
- Insert 3 self-drilling screws (#5) through tube in line with a bumps on plug rim (at Long Prongs) and 1" (2.5 cm) from tube end. (Fig. 7)
- Push Water Discharge Hose onto right side of Auto End (Fig. 6)

Fig. 6



AUTO END

Water Discharge Hose

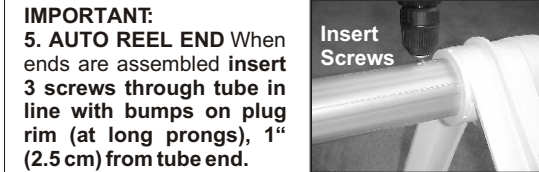


Fig. 7

### STEP 4: STRAP ATTACHMENT

Attach a Strap Plate (extras included) to one end of all Straps provided (see Fig. 7).

Attach this end to Tube

Strap end

Strap

Attach this end to Solar Cover

Strap end

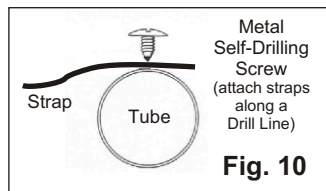
Strap Plate (Side View)

Fig. 8

### STRAP ATTACHMENT - TO TUBE

- Mark two outside strap location on tube drill lines. These two straps are placed 6" (15 cm) in from inside edges of pool or at the start of the radius corner (see Fig. 9).
- Attach remaining straps (Evenly Spaced) on a drill line with metal screws (see Fig. 10).

**DO NOT pre-drill holes or over-tighten screw.** Use all straps provided.



Space all straps evenly between outside marks



First strap is placed 6" (15 cm) in from inside edge of pool or at start of radius corner. Place system across widest point of pool if radius corners are greater than 6".

Fig. 9

### STRAP ATTACHMENT - TO COVER

- Choose either Fig. 11 OR Fig. 12 - the appropriate instructions below for your pool shape. If you have determined a mid-pool or off-center placement, it may be easier if you move the cover away from the pool and fold it (bubbles in) on a flat surface.

For Systems Placed at Pool End (Rectangular Pools) (Fig.11)

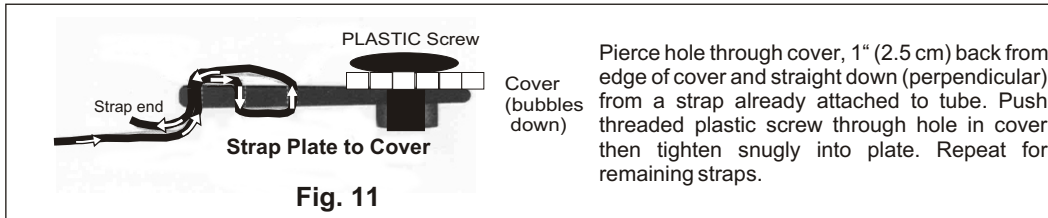


Fig. 11



For Systems placed at Mid-Pool or Off Center (Round, Oval or Irregularly Shaped Pools) (Fig. 12)

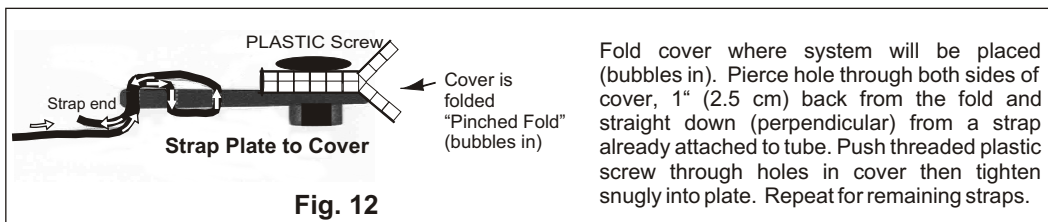


Fig. 12



- When you start to roll up the cover, all straps must take hold of the cover at the same time. Adjust the strap length at strap plate if necessary.

## USING YOUR AUTO REEL

### PLACING COVER ON POOL:

1. Move Reel System (with cover attached) across the pool to the exact location where you determined in Step 1. (Optional Locking Casters (FG-CK) are available.) \*
2. **IMPORTANT: Auto End Lever MUST be in the "REST" (Neutral) position - to the right.**
3. Using handle at the Bracket End, **unroll the cover 5 turns** (releases any water pressure in Auto End) then "walk" cover slowly on pool.

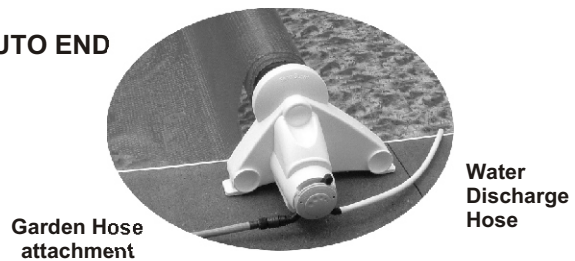
### REMOVING COVER FROM POOL:

1. Using Quick-Connect (provided), attach your garden hose onto left side of Auto End (Fig. 13).
2. Turn on the water then move the Auto End Lever to the left - "REWIND". The cover will roll up automatically. Adjust cover if necessary.
3. **IMPORTANT: When the cover is completely rolled, return Lever to "REST" (Neutral) position on the right.**
4. **Turn off water at tap. Failure to do so will void Warranty.**
5. **Disconnect Garden Hose from Auto End.**

**Safe use of your Solar Reel:**  
**COMPLETELY REMOVE REEL SYSTEM / COVER FROM THE POOL BEFORE SWIMMING.**  
**Under no circumstances, should one swim in a pool partially covered by the solar cover.**

Solar Reel systems are designed solely to remove solar covers and are not made to support people or any other weight.

**AUTO END**



**Fig. 13**

### Care and Storage:

1. **DO NOT ALLOW AUTO END TO FREEZE !**
2. **IF THERE IS A DANGER OF FREEZING TEMPERATURES, REMOVE AUTO END FROM SYSTEM, TURN TUBE SHAFT AND ENSURE ALL WATER HAS DRAINED THEN STORE IN A LOCATION ABOVE FREEZING.**  
**When re-assembling, check all screws and tighten, if necessary**
3. **In order to protect the warranty on your Solar Cover, it is essential to use a protective cover when the it is rolled up on the reel. In the summer use a White Sheet with UV inhibitors and in Winter, a Winter Jacket. If not provided, they can be purchased from your pool retailer.**



### \* Other FeherGuard Accessories available through Pool Retailer:

Part Code	Description
<b>FG - FASKIT</b>	TUBE & BLANKET FASTENING KIT (10 sets tube & blanket fasteners & 10-26" s traps/pkg.) ***
<b>FG - PFS</b>	TUBE AND BLANKET FASTENERS (10 s ets / pkg.)***
<b>FG - RS26</b>	REEL STRAPPING (10 Straps 26" / pkg.) ***
<b>FG - RS50</b>	REEL STRAPPING (1 Roll 50' /pkg.) ***
<b>FG - MPR</b>	MD-GRIP PULL ROPE (helps pull Blanket onto pool 35' rope, 2 clips, 2 plates, 2 fasteners / pkg.) ***
<b>FG - BS2x6</b>	BLANKET STRAPS (2 x 54" / pkg.) (sec ures rolled-up Solar Blanket on Reel) ***
<b>FG - WPS</b>	WHITE PROTECTIVE SHEET <b>SUMMER</b> - (24' x3 1/2')- w ith UV inhibitors ***



## Three Year Warranty:

FeherGuard warrants for a period of three years from the date of delivery to the original consumer purchaser, that the AUTO REEL System shall be free from defects in workmanship or material, under normal use and in accordance with FeherGuard’s written installation and use instructions.

FeherGuard at its option shall supply free of charge any part found to be defective in workmanship or material.

Any implied warranties are limited in duration to the three-year period from the date of delivery to the original consumer purchaser. **Excluded from this warranty are all consumables (bearings, straps, strap plates, screws). Tarnishing or discoloration of mill aluminum tubes can occur. This is not a warranty issue as tarnishing does not affect tube performance.**

This warranty is void if there is evidence of purchaser abuse, improper installation or normal wear. Disassembling AUTO END may void warranty.

FeherGuard will not be liable for incidental or consequential damages resulting from any defects in workmanship or material. Some States/Provinces/Countries do not allow the exclusion or limitation of incidental or consequential damages, so the foregoing limitations or exclusions may not apply.

This Warranty gives the claimant specific legal rights. The provisions of this Warranty are in addition to and not a modification of or a subtraction from the statutory warranties and other rights and remedies contained in applicable local legislation.

To validate Warranty, return this registration form within 30 days of purchase. You may also register your warranty online on our Home Page at [www.feherguard.com](http://www.feherguard.com).

FeherGuard Products Ltd. 3153 Steeles Ave. West, Unit 5  
Milton, Ontario CANADA L9T 2V4  
**Specifications subject to change without notice. 10 15**

**Thank you for buying the AUTO REEL System.  
We know it will make solar cover handling easy for you.**



### FeherGuard “Three Year” Warranty Registration

Please Print

PURCHASER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_

STATE/PROVINCE/COUNTRY: \_\_\_\_\_ ZIP/POSTAL CODE: \_\_\_\_\_

**AUTO REEL**

MODEL #

STORE LOCATION

PURCHASE DATE