

# FeherGuard™

## SurfaceRider™

ABOVE-GROUND SOLAR REEL

**ASSEMBLY INSTRUCTIONS**  
Designed to bow and "ride" the surface of the water



### PLEASE READ ENTIRE INSTRUCTIONS CAREFULLY BEFORE PROCEEDING

#### Four Easy Steps:

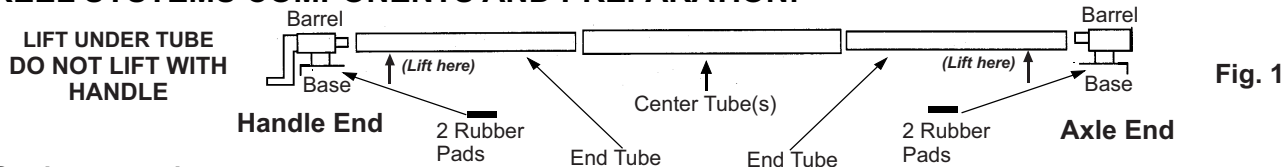
If you need additional assistance, contact us at [info@feherguard.com](mailto:info@feherguard.com) or call 905-876-4766 Monday to Friday 8:30 a.m. to 5:00 p.m. Eastern Time.

**Recommend 8 mil cover with round bubbles.**

Before starting reel assembly, trim cover to CLEAR inside top edge of pool so that it does not touch sides of pool while rolling onto reel.

Leave an extra 4" (10 cm) on cover length when installing the reel at mid-point or off center to allow for fold (see Fig. 10)

#### REEL SYSTEMS COMPONENTS AND PREPARATION:

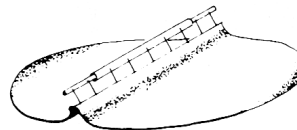


#### Getting started:

1 Ends / Hardware Carton (FG-SRE) plus 1 Tubeset Carton (FG-SRT18 OR FG-SRT24)

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

- Portable drill
- Tape measure
- Pencil and Scissors



#### End Parts & Hardware:

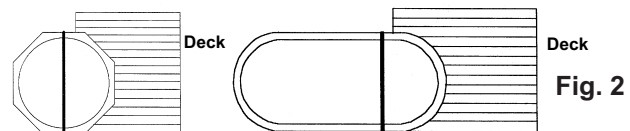
2 Barrels 1 Axle 1 Handle  
4 Rubber Pads

Hardware Kit:  
10 Strap Plates 10 Plastic Screws  
10 Straps 25 Metal self-drilling Screws

#### STEP 1: SOLAR REEL PLACEMENT:

A. Determine the best location for the reel system. On round pools, the reel should be located across the center of the pool. On oval or rectangular pools, locate the reel at its widest point where there is no decking on either side (see Fig. 2 below).

B. At the determined location, measure the width of the pool from the outside edges of top rail and subtract 4" (10 cm) to ensure ends of system are 1/2" wider than outside of top rail. Ends must sit loosely on top rail. System Ends must be FULLY inserted into end tubes.



#### STEP 2: TUBE ASSEMBLY

**Note: THIS STEP REQUIRES 6 SELF-DRILLING SCREWS at EACH TUBE JOIN (12 Total). Do not pre-drill holes or over-tighten screws. Make very small "pilot" holes if necessary.**

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



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

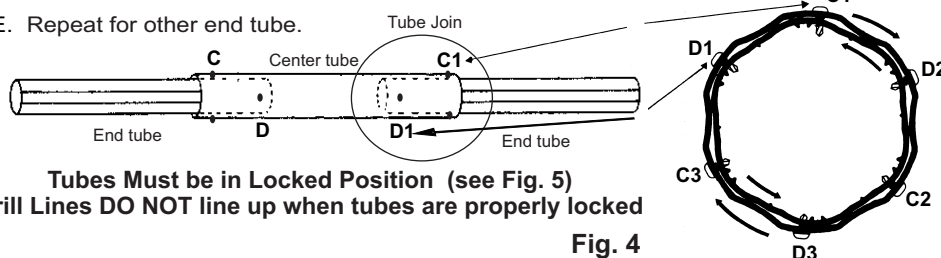
	Minimum Insert	Maximum Extension
SRT18	8" (20 cm)	18' 6" (5.5 m)
SRT24 (3Tube)	10" (25 cm)	24' 6" (7.3 m)

B. Lock tubes together by rotating the center tube in the opposite direction from end tube. **HOLD TUBES LOCKED WHILE YOU INSTALL THE FIRST SELF-DRILLING SCREW ON A DRILL LINE, 1" (2.5 cm) back from the end of the center tube at Location "C1"** (see Fig. 4 & 5).

C. Place **2 more** self-drilling screws at Location "C2" & "C3" - 1 screw at every second drill line around tubes (see Fig. 4 & 5).

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 (see Fig. 4).

E. Repeat for other end tube.



**Tubes Must be in Locked Position (see Fig. 5)**  
**Drill Lines DO NOT line up when tubes are properly locked**

Fig. 4

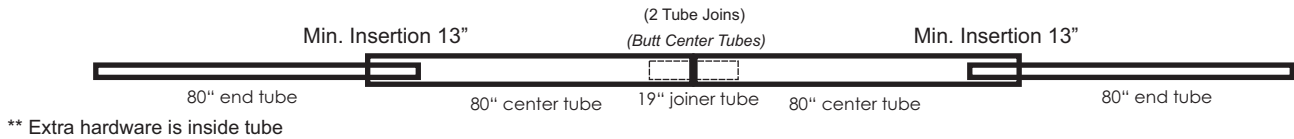


Fig. 5

## STEP 2: TUBE ASSEMBLY Continued (see Fig. 4 & 5)

**Note: THIS STEP REQUIRES 6 SELF-DRILLING SCREWS at EACH TUBE JOIN (24 Total).** Do not pre-drill holes or over-tighten screws. Make very small "pilot" holes if necessary.

**SRT24 (5 Tube Configuration) \*\* Maximum Extension 24'6" (7.47 m).**



## STEP 3: ASSEMBLE ENDS

- Place Rubber Pads onto sides of both Bases.
- Insert each end firmly and fully into end tubes.
- Attach each end to tube by installing one self-drilling screw through drill line, 1" (2.5 cm) from the tube end at BOTH ends (see Fig. 6).

**IMPORTANT:**  
Once end is inserted onto tube, place a screw through tube 1" (2.5 cm) from tube end. (at BOTH ends)

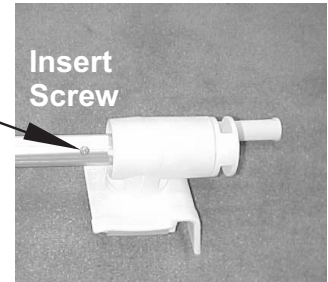


Fig. 6

## STEP 4: STRAP ATTACHMENT

Attach a Strap Plate to one end of all Straps provided (see Fig. 7).  
Adjust strap length at the Strap Plate if necessary.

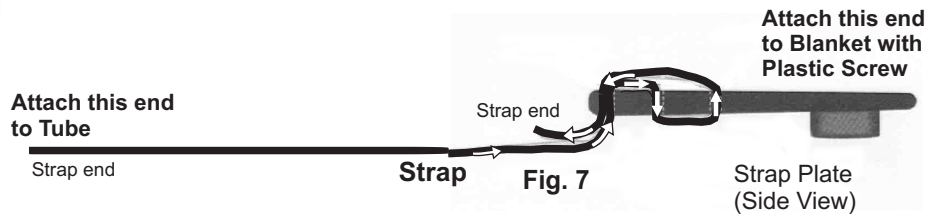
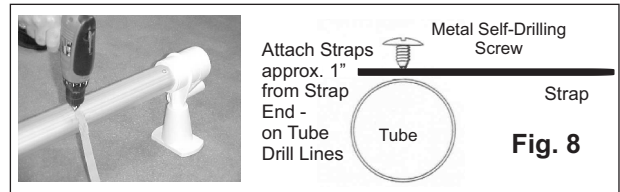


Fig. 7

## STRAP ATTACHMENT - TO TUBE

- Mark each end tube 6" (15 cm) in from the inside edges of top rail of pool. Straps are spaced evenly between these marks. Mark all strap locations along DRILL LINES. Use all straps provided.
- Attach straps to tube with a metal screw on a DRILL LINE (see Fig. 8). approximately 1" (2.5cm) from end of Strap. **DO NOT pre-drill holes** or over-tighten screws. A small "pilot hole" may help.



## STRAP ATTACHMENT - TO COVER

- Choose the appropriate instructions below for your pool setup. If you have determined a mid-pool placement (or off-center), it will be easier if you mark the cover then move it away from the pool and fold it (bubbles in) on a flat surface. Choose *EITHER* Fig. 9 OR Fig. 10.

**For Reel Systems Placed at Pool End (RECTANGULAR POOLS) (see Fig. 9)**

Fig. 9

Pierce hole through cover, 1" (2.5 cm) back from edge of cover and straight down (perpendicular) from a strap already attached to tube. Push threaded plastic screw through hole in cover then tighten snugly into plate. Repeat for remaining straps.

**For Reel Systems Placed at Mid-Pool or off center (ROUND, OVAL OR IRREGULARLY SHAPED POOLS (see Fig. 10)**

Fig. 10

Fold cover where system will be placed (bubbles in). Pierce hole through both sides of cover, 1" (2.5cm) back from the fold and straight down (perpendicular) from a strap already attached to tube. Push threaded plastic screw through both holes in cover then tighten snugly into strap plate. Repeat for remaining straps.

D.

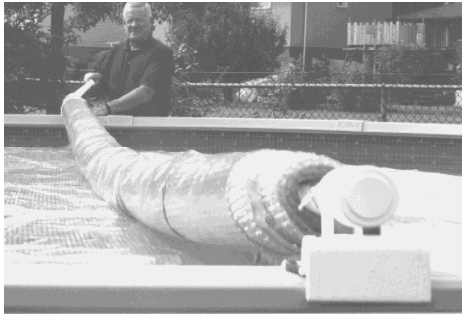


Fig. 11

- Do not attach the Surface Rider to the pool in any way. If this is done you will damage the system and the Warranty will be Void.
- With round pools or oval pools, the ends of the cover should unroll in opposite (separate) directions (See Mid-Grip Pull Rope (FG-MPR) Accessory below for assistance.) With rectangular pools pull the leading edge of the cover slowly down the pool.
- The Surface Rider is *designed to bow and ride the surface of the water* (see Fig. 11). The cover and the reel are supported by the buoyancy of the water during rolling.

#### Safe Use of Your Solar Reel:

- Solar Reel systems are designed solely to remove solar covers and are not made to support people or any other weight.
- Solar covers must be completely removed before entry into the pool. Under no circumstances, should one swim in a pool partially covered with the solar cover. Remove system and store on a fence **supported in the middle** or on the ground.
- Tubes are made of non-anodized (mill) aluminum and will discolor over time. This does not affect performance or warranty.

#### Care and Storage:

**Check screws periodically and tighten, if necessary.** The solar reel may be stored outside for the winter. It is not recommended to disassemble it for storage

**In order to protect the warranty on your solar cover, it is essential to use a protective cover when it is rolled up on the reel. In the summer use a Protective Sheet with UV inhibitors & in Winter, a Winter Jacket. If not provided, they can be purchased from your pool retailer.**



#### FeherGuard Accessories available through Pool Retailer:

- |                  |   |
|------------------|---|
| FG-FASKIT        | Tube & Blanket Fastening Kit (10 sets tube & blanket fasteners & 10 - 26" straps / package)                   |
| FG-PFS           | Tube & Blanket Fasteners (10 sets / package)  |
| FG-RS26          | Reel Strapping (10 - 26" Straps / package)  |
| FG-RS50          | Reel Strapping (1 Roll 50' Strapping / package)   |
| FG-MPR           | Mid-Grip Pull Rope (helps pull Solar Blanket on to Pool - 35' Rope, 2 clips, 2 plates, 2 fasteners / package) |
| FG-WPS or FG-BPS | Protective Sheet with UV Inhibitors (Wrap to protect solar blanket on the reel 24' x 3 1/2' / package)        |
| FG-BS2X6         | Blanket Straps (secures rolled up Solar Blanket on Reel - 2 x 54" straps with buckles / package)              |



## One Year Warranty:

FeherGuard warrants for a period of one year from the date of delivery to the original consumer purchaser, that the Surface Rider Solar Cover 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 one-year period from the date of delivery to the original consumer purchaser. **Excluded from this warranty are all consumables (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 or integrity.**

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

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 at - [www.feherguard.com](http://www.feherguard.com).

Warranty claims should be processed through your Dealer and include your proof of purchase.

FeherGuard Products Ltd. 3153 Steeles Ave. West, Unit 5  
Milton, Ontario CANADA L9T 2V4  
**Specifications subject to change without notice. 01 21**

Thank you for buying the Surface Rider Solar Cover Reel System. We know it will make solar cover handling easy for you.

 **FeherGuard "One Year" Warranty Registration** Please Print

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

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

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

Surface Rider		
MODEL #	STORE LOCATION	PURCHASE DATE