



HOT TUB PRODUCTS

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Wallingford, CT 06492

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www.HotTubProducts.com

We Strongly Recommend Visiting Our Website
For the Most Up to Date Video Instruction Manual

www.VacuSealCoverLift.net

The Website Features 3 Short Videos...

1) 7 Minute Installation Video

Step by step instructions on installing your VacuSeal Lifter and Cover on both hot tubs and swim spas.

2) 1 Minute Operational Video

Easiest ways to open and close your cover on both hot tubs and swim spas.

3) 30 Second Video On Available Options

SPAS NOT SUITABLE FOR INSTALLATION

1. Flush mounted spas. A minimum 4" clearance required. See Fig 2.
2. Hot Tubs longer than 96" (8') and/or wider than 110"
3. Swim Spas longer than 22' will require special ordered VacuSeal Covers
4. Round spas, or those with a corner radius larger than 17". To determine radius, see Figure 1.

IMPORTANT: SPAS WITH A RADIUS ABOVE 12"

If your spa has a radius corner of 12" to 17" you must install the optional VacuSeal Extended Bracket System. It includes 2 brackets that add support to the primary Mounting Brackets along with a Rear Extension Tube attaching both Rear Support Bars. This is an optional part that comes independently packaged.

IMPORTANT: Please fill out warranty card and mail in order for warranty to be valid.

CAUTION!

Do not use the VacuSeal in high wind conditions. Injury from the spa cover being blown over and impacting the spa user can occur.

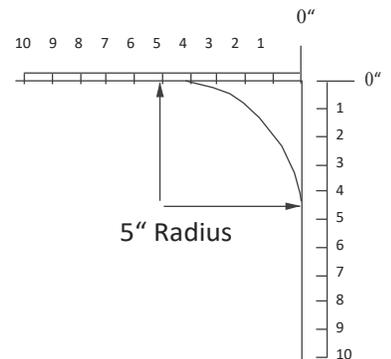
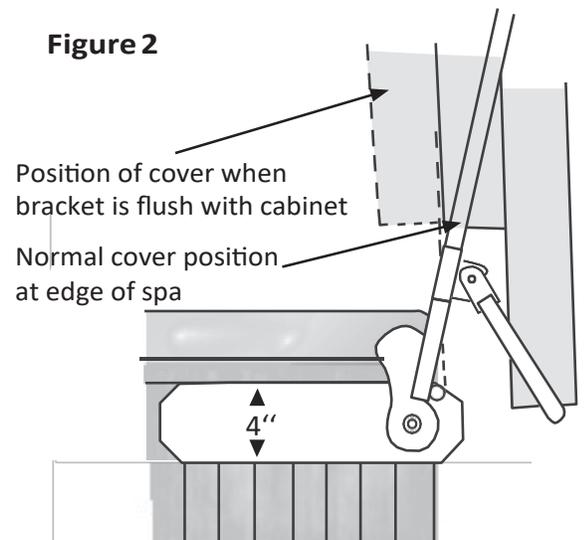
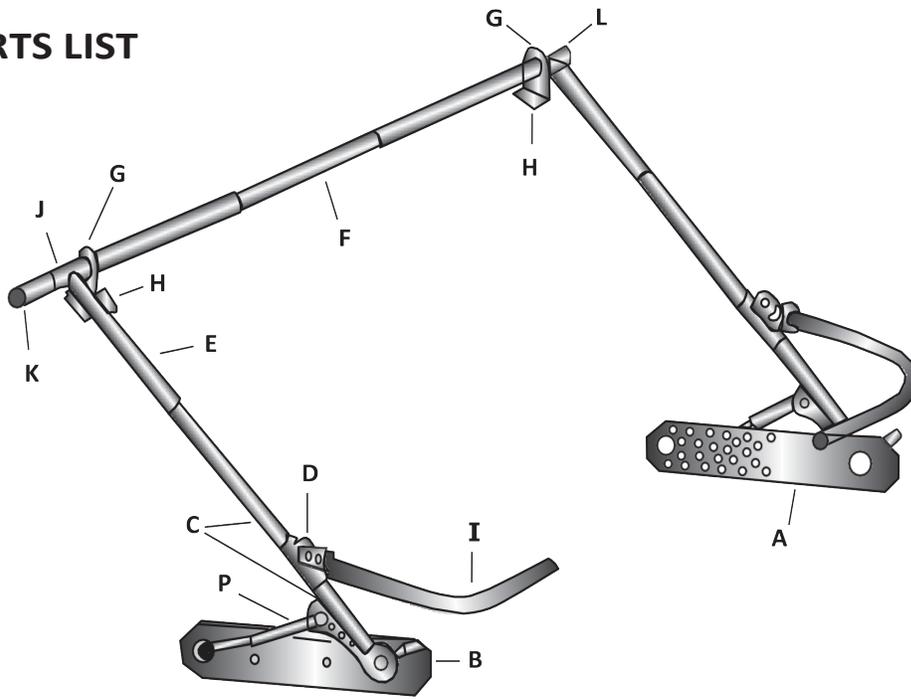


Figure 1

Figure 2



PARTS LIST



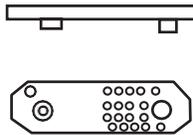
TOOLS REQUIRED

- Screw Gun
- Wrenches 1/2" & 7/16"
- Drill Bit 9/64" & 1/8"
- Tape Measure
- #2 & #3 Phillips

OPTIONAL

Tube Cutter may be required to cut aluminum tube on smaller spas. See Sections 4 & 6

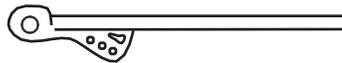
A – Mounting Bracket (2) L/R PART #VS128



B – Cover Plate (2) L/R PART #VS133



C – Swing Arm (2) PART #VS129



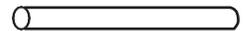
D – Adjustable Bracket (2) PART #VS134



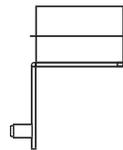
E – Crossover Bar (2) PART #VS130



F – Extension Tube (1) PART #VS135



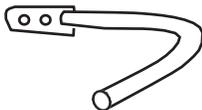
G – Upper Clamp (2) PART #VS131



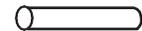
H – Lower Clamp (2) PART #VS136



I – Rear Support Bar (2) PART #VS132



J – Handle Bar (1) PART #VS137



K – Foam Grip (1) PART #VS110



L – Plastic Plug (3) PART #VS119
1 - Large 2 - Small PART #VS141

M – Black Fender Washer (2) PART #VS109



N – Lock Washer (2) PART #VS125



O – Ball Studs 5/16" – 18 (4) PART #VS116



P – Gas Springs (2) PART #VS115



Q – Hex Bolts 1/4" – 20 x 1/2" (4) PART #VS121



R – Nylon lock nuts 1/4" - 20 (8) PART #VS122



S – Hex Bolts 5/16" – 18 x .375 (2) PART #124



T – Nylon lock nuts 5/16" - 18 (2) PART #VS123



U – Wood Screws #12 x 2" (28) PART #VS120



V – Self Taping Screws # 10 x 5/8" (20) PART #VS113



W – Machine Screws #10 – 32 x 1/2" (4) PART #VS114



X – Screw Caps (30) (2-Lg, 8 Med, 20-Sm) PART #VS111, VS118, VS117

Y – Rubber Safety Stop (2) PART #VS127

Z – Teflon Washers (4) PART #VS140



VACUSEAL INSTALLATION INSTRUCTIONS

CLEARANCE REQUIREMENTS

1. VacuSeal requires a 9" clearance at the rear of the spa for the cover to open (See fig 3). This may be lessened to 7" by installing the Mounting Bracket flush with cabinet but this will also position the cover to sit a few inches over the spa's coping. (See fig 2)
2. If the furthest point of the spa (either the shell coping or the top rail) extends more than 1 1/4" from the face of the cabinet where the mounting bracket is to be mounted (see fig 4) then you must install a wooden spacer behind the mounting bracket to keep it within 1 1/4".

IMPORTANT: CHECK FOR ADEQUATE SUPPORT

The Mounting Bracket requires a secure attachment to the cabinet. If the panel siding of the spa is thin, then make certain the screws attach to the spas interior frame. If you are uncertain if the spa has a frame (wood or steel) positioned to meet the screws, then remove cabinet panel to inspect and install a wood support (usually a short 2"x 4" stud) behind panel secured to the spa frame.

Figure 3

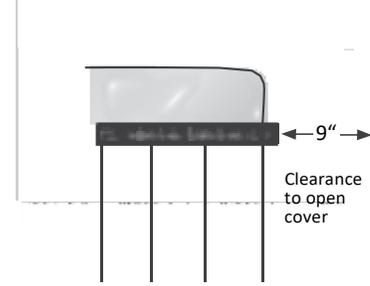
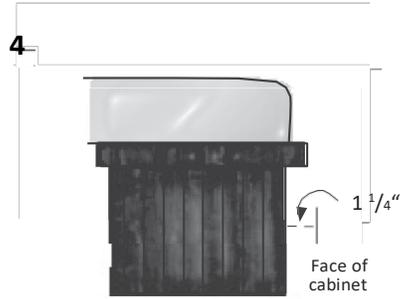


Figure 4



If more than 1 1/4" add spacer

FOLLOW STEPS IN PROPER SEQUENCE

Step 1 – "Mounting Bracket"

First, measure 22" back from the furthest point at the rear of the spa and mark with a pencil (See Fig 5).

Measuring 1" or 2" less will position cover further from spa (sometimes desired on Tri-Fold Designed Covers) and measuring 1" or 2" more will reduce the amount of space required behind spa for clearance.

NOTE: Mounting Brackets are installed on each side and to the rear of the spa, where the cover is to be positioned when open..

Position the Mounting Bracket A at the pencil mark. Make certain to use the bracket that positions the "Safety Stop" at the rear of the spa (See Fig 5). Hold Mounting Bracket at this position and pre-drill into two of the holes using the 9/64" drill bit. Then secure the Mounting Bracket by screwing in the Wood Screws U with a #3 Phillips head bit (See Fig 6). Repeat this procedure so that you have a minimum of 8 screws securing the mounting bracket to the cabinet, though more is always better. Pre-drilling holes is important to prevent splitting of the cabinet panel or interior frame.

IMPORTANT: Mounting Bracket Must Sit Flush on Cabinet

If your spa has a trim strip preventing the Bracket from sitting flush on the cabinet then it must be removed, cut, and replaced (See Fig 5). An alternative solution is to place a wood spacer, the thickness of the trim strip, behind bracket allowing it to sit flush.

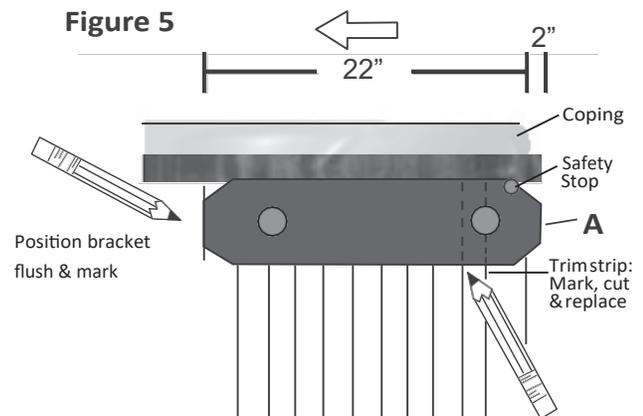
NOTE: On spas with STEEL FRAMES use a Metal Bit and then enclosed screws will work fine!

IMPORTANT: FOR SWIMSPAS ONLY

Installing the VacuSeal System on Swim Spas includes multiple covers and 2 lifters. The installation is no different than a VacuSeal System on a traditional hot tub but requires you to follow these steps.

1. Install one VacuSeal Lifter & Cover on one side of the swim spa before installing the second Lifter.
2. After the first Cover is installed push the second cover firmly against it during the final positioning process to prevent a gap between the two covers each time you open and close the cover. A major benefit to the VacuSeal System is that the cover will always return to their original position if installed correctly.

Figure 5



Measure back 22" from spa coping to position mounting bracket

Step 2 – Install “Cover Plate”(See Fig 7)

Position Cover Plate **B** over the Mounting Bracket and with a #2 Phillips head bit secure the Machine Screws **W** into the 2 center holes.

REPEAT STEPS 1 THROUGH 2 ON THE OTHER SIDE!

Step 3 – Position Cover on Spa

Position corners of Cover squarely on all four corners of Spa.

Step 4 – Install “ Swing Arm”

Position a Teflon Washer **Z** over the “Boss” closest to the rear of the spa and below the “Safety Stop”. Then Position the Swing Arm **C** on the Boss. Make certain the extended portion of the Swing Arm is positioned towards the interior of the spa (See Fig 7).

Then over the center hole position place the 2nd Teflon Washer **Z** then the Machined Washer **M**, then the Locking Washer **N**, and secure with 5/16 Hex Bolt **S**. Tighten until the Lock Washer is compressed.

Z. Teflon Washer

M. Machine Washer

N. Locking Washer

S. Hex Bolt



IMPORTANT NOTES: COVERS LESS THAN 78” LONG

If length of this side of the cover is less than 78” you may have to cut Swing Arm using the tube cutter. This can be determined by following instructions in Step 8 (position “Cross Over-Bar and “Upper Clamp” over cover slit and slide in the “Swing Arm”). If cutting is required, make certain to measure and allow approx. 4” of Swing Arm to pass into the Crossover Bar so that it is visible through all of the pre-drilled holes.

Step 5 – Slide on “Adjustable Bracket”

Slide the Adjustable Bracket **D** onto the Swing Arm (See Fig 7) making certain the larger oblong hole is positioned toward the bottom when Swing Arm is up and toward rear when Swing Arm is down. Leave unattached.

Step 6 – Position “Cross Over Bar”

Slide the longer side of the “Crossover Bar” **E** through the Upper Clamp **G** with clamp portion centered on top of cover above the slit in the cover flap. Then slide the shorter side of the “Crossover Bar” into the Swing Arm (See fig 8) which has the Adjustable Bracket on it. Leave both the Swing Arm and “Crossover Bar also unattached.

IMPORTANT NOTE: COVERS LESS THAN 66” WIDE

If the width of the cover is less than 66”, than it will require cutting both sides of the Crossover Bars equally to accommodate the short width, along with shortening the Extension Tube if necessary.

Figure 6

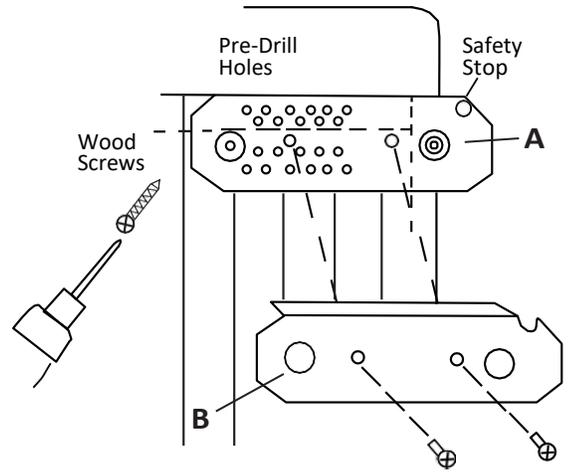


Figure 7

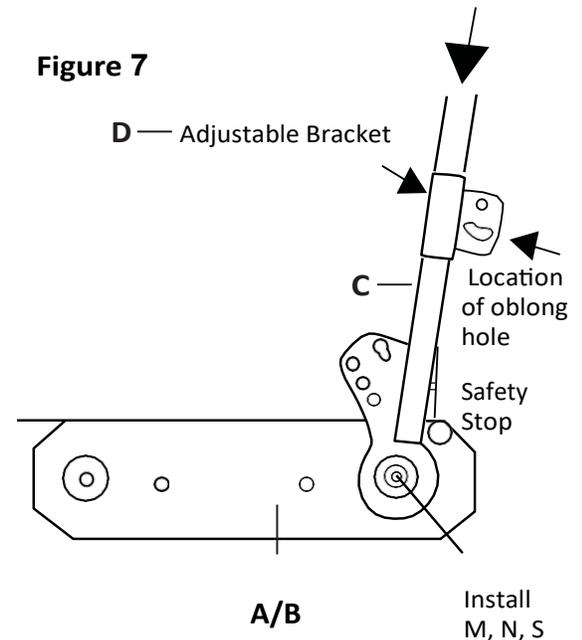
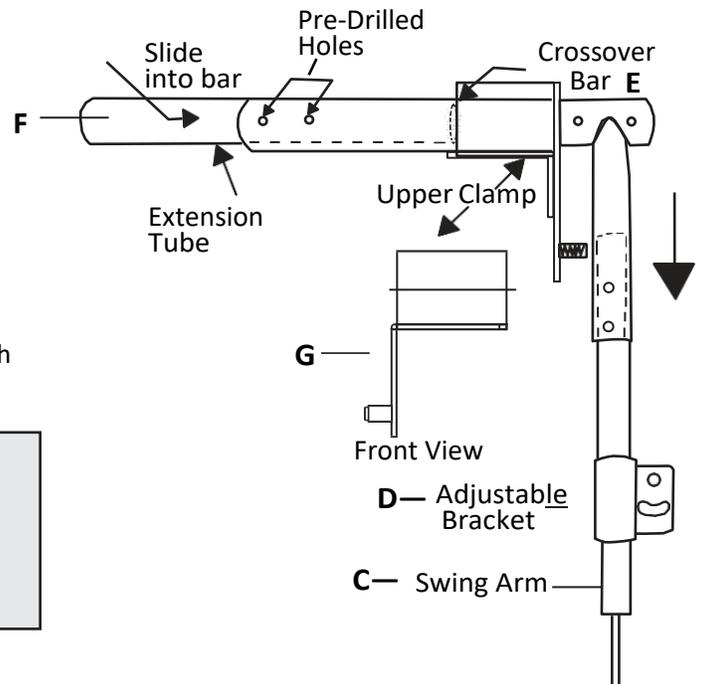


Figure 8



Step 7 – Position “Extension Tube”

Put a pencil mark at the center of the Extension Tube **F** and slide it partially into the previously installed Crossover Bar, leave unattached and resting on the cover. The pencil mark will assist you later in positioning Extension Tube equally between both sides (See fig 9)

Step 8 – Position 2nd “Crossover Bar” On Opposite Side

Move to opposite side of spa and slide the longer side of the 2nd Crossover Bar **E** through the 2nd Upper Clamp **G**. Then slide it over the other side of Extension Tube. Have the pencil mark on the Extension Tube equally distanced on both sides (See Fig 9). Leave all parts unattached.

NOTE: It is important to make certain the pre-drilled holes in each of the Crossover Bars are covered underneath by the Extension Tube.

Step 9 – Install 2nd Swing Arm

Slide the 2nd Adjustable Bracket **D** onto the 2nd Swing Arm **C** again making certain that the larger oblong hole again faces up and towards the rear of the spa. Then slide the Swing Arm tube into the Crossover Bar and position rounded portion onto the larger Boss on the Mounting Bracket, (See Fig 10). Secure the Swing Arm just as it was done on the other side, see Fig 8. Again, make certain to install Teflon Washers on either side of Swing Arm and tighten the Hex Bolt until the Locking Washer is compressed.

Step 10 – Install “Bottom Clamps”

First make certain that both Upper Clamp **G** and the Crossover Bar **E** are still centered over the slits in the cover flap. Then slide the bottom half of the Lower Clamp **H** into the Slit on the Cover while positioning the slotted holes over the bolts on the Upper Clamp. Hand squeeze the two clamps together tightly, and install the Nylon Locking Nuts **R** VERY securely (See Fig 10)

REPEAT ON THE OTHER SIDE.

Figure 9

Covers Wider Than 96” Require The Optional Extension Center Bar

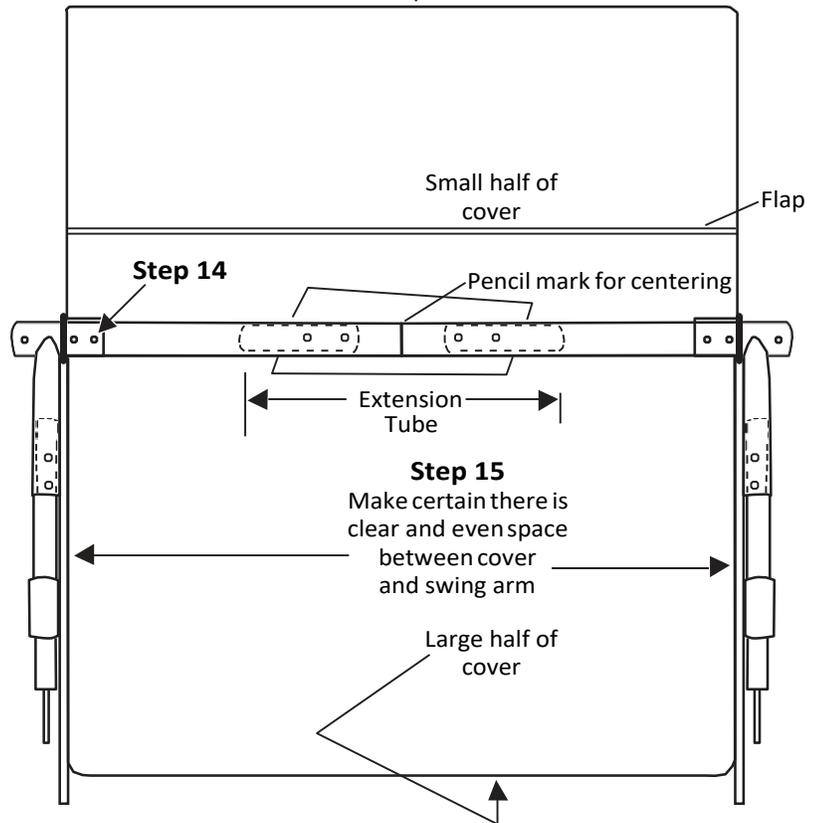
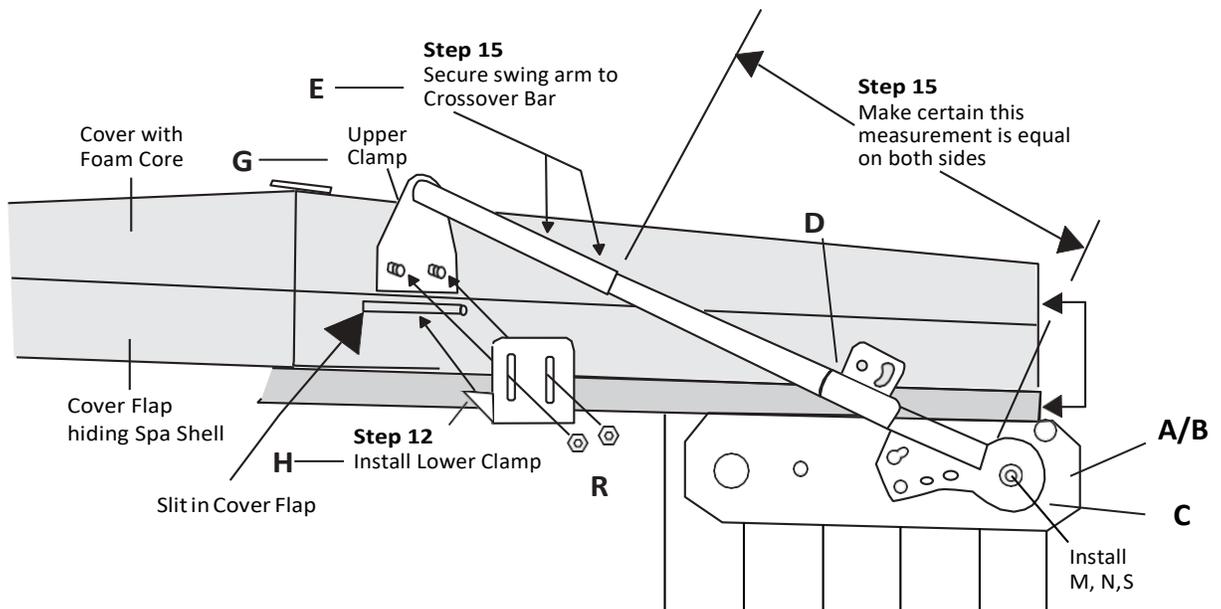


Figure 10



Step 11 – Install Handle

First determine which side you wish to have the Foam Gripped Handle J/K on and then slide it fully into the Crossover Bar on that side (See figure 11).

Then pre-drill of the holes at the T of the Crossover Bar and then install a self-tapping screw. Then repeat in the second hole, (See Fig 11). On the other side with no handle install self-tapping screws into each open hole, this will help prevent water from entering the tube.

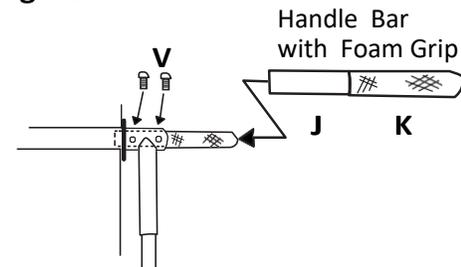
The handle can later be detached and installed on the opposite side if desired or you can order an additional handle for the opposite side.

Step 12 – Secure Upper Clamp to Crossover Bar & Handle

NOTE: Make certain the Swing Arm is running parallel to the cover and there is clear even space between the Swing Arm and the Cover. This will allow Swing Arm to raise the Cover without any obstruction.

Then using the 1/8th bit pre-drill into the holes on the Upper Clamp as shown in Fig 9 and then install Self Taping Screws. **REPEAT ON OTHER SIDE.**

Figure 11



Step 13 – Secure "Swing Arms" to "Crossover Bars"

NOTE: Make certain the Cover is square on the spa and then measure the distance of the Swing Arm to its connection point on the Crossover Bar making sure the distance is equal on both sides and the Swing Arm is visible for attachment (See Fig. 10). Then using the 1/8th bit, pre-drill into the holes on the Crossover Bar and then install with Self-Taping screws. **REPEAT ON OTHER SIDE.**

Step 14 – Install "Rear Support Bar" to Cover

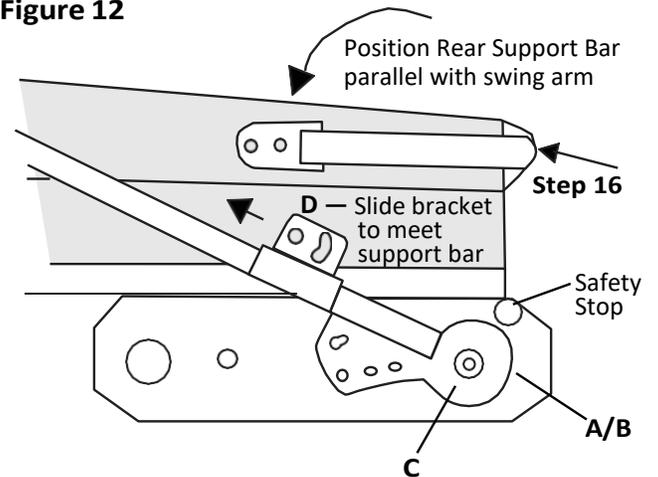
Slide the rounded side of the Rear Support Bar I into the back sleeve of the cover until it is parallel with the Swing Arm (See Fig 12).

Step 15 – Attach to "Adjustable Bracket"

Position the holes in the flat end of the Rear Support Bar so that it aligns with the holes in the Adjustable Bracket (See Fig 12) and secure them together with two Hex Bolts Q and two Nylon Lock Nuts R (See Fig 13).

Next using a 1/8" bit pre-drill into the one accessible pre-existing hole on the top of the Adjustable Bracket and then secure with a Self-Tapping Screw. The non-accessible pre-drilled hole will not require a screw (See Fig 13).

Figure 12



REPEAT STEPS 14 & 15 ON THE OTHER SIDE

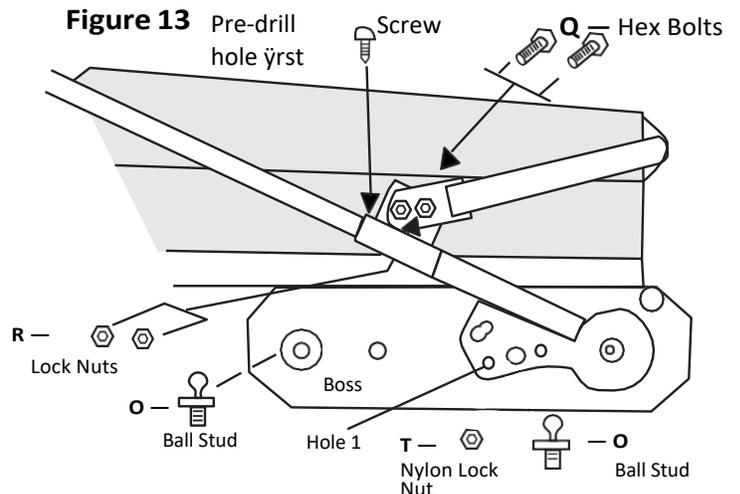
Step 16 – Install "Ball Studs"

With Cover in closed position hand screw one of the Ball Studs O onto the open interior Boss on the Mounting Bracket and securely tighten with wrench.

Then install the 2nd Ball Stud through Hole 1 on the Swing Arm and secure it with a Nylon Lock Nut utilizing the two wrenches (See Fig 13).

NOTE: The additional holes allow for adjustment but are only recommended on small spas.

Figure 13



REPEAT ON OTHER SIDE.

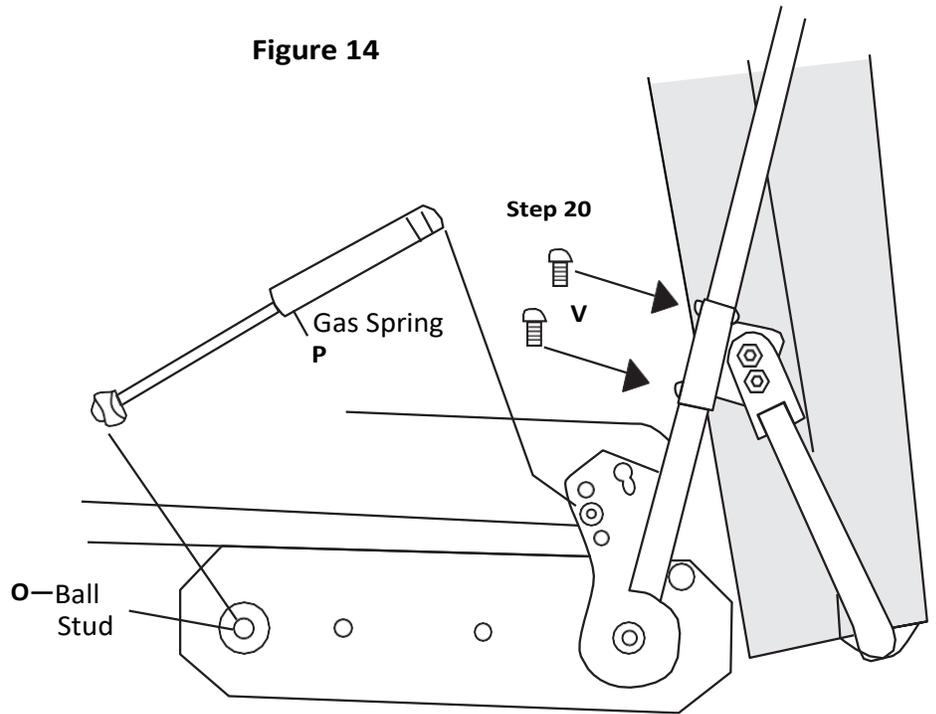
Step 17 – Install Gas Springs

Lift the cover into the open position (this will require effort since the gas springs have yet to be installed) and install the large barrel of a Gas Spring into the Ball Stud on the Swing Arm and the narrow barrel into the Ball Stud on the Mounting Bracket (See Fig 14).

Gas springs should snap onto Ball Studs.

Step 18 – Secure “Adjustable Bracket”

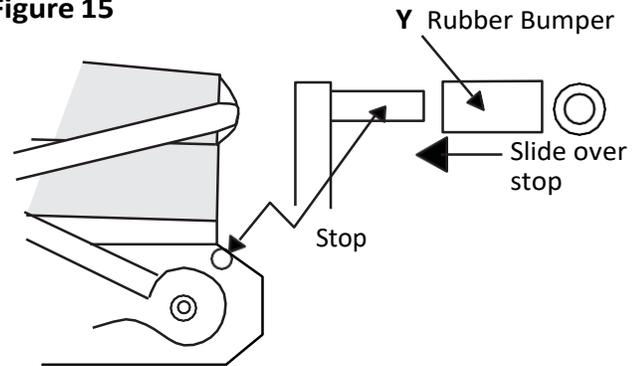
With the Cover in the open position use the 1/8” bit to pre-drill into the two bottom holes on the Adjustable Bracket and then install two Self Taping Screws (See Fig 14)



Step 19 – Install Rubber Sleeve onto Safety Stop (See Fig 15)

Close the Cover and slide Rubber Sleeve Y onto Safety Stop on the Mounting Bracket. Then raise Cover to ensure that Swing Arm touches the Rubber Sleeve. If not, move Ball Stud on Swing Arm to a different hole.

Figure 15



NOTE: The lower the hole that you use the further back the Cover will sit from the spa.

Step 20 – Secure "Crossover Bar" to "Extension Tube"

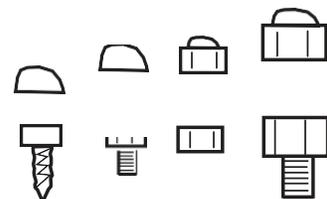
Using a 1/8” bit drill holes into all pre-existing holes on the long side of each Crossover Bar making certain the Extension Tube is visible, then install Self Taping Screws (See Fig 9). This attachment can be done when the cover is in the up or down position

Important: Be sure to place a piece of ply score or some sort of protection in the cover while you are installing the screws. Damage to the cover during installation is not covered in the warranty.

Step 21 – Install “Plastic Covers”

Install all Small Plastic Covers X on all the Self Taping Screws, Medium Plastic Covers on the bolts to the Clamping Brackets and Adjustable Brackets, Large Plastic Covers on the Swing Arm bolts.

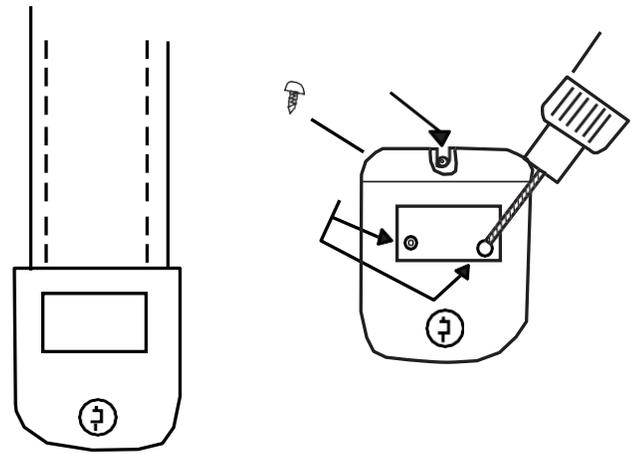
Install Large Plastic Plug L into the side of the Crossover Bar that does not have the Handle. Install the other Plastic Plugs on the open ends of the Rear Support Bars if they extend beyond the pocket of the Cover.



Step 22 - Install Locking Straps

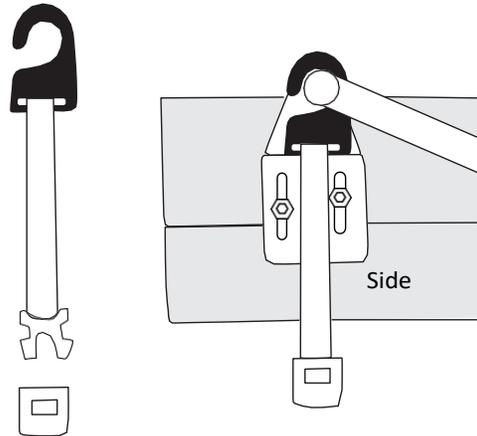
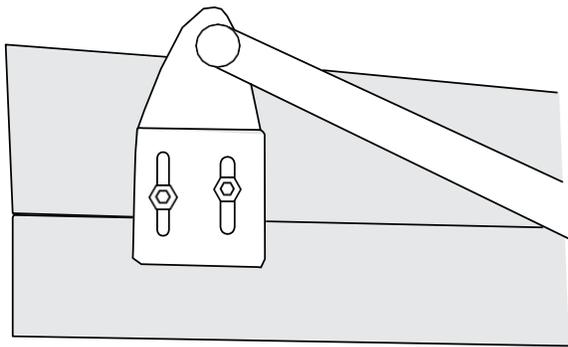
Install the female part to the Locking Straps to the Hot Tub Cabinet making certain that they each match up with the extended Male Part (See Fig 17).

Figure 17



OPTIONAL ACCESSORIES

Figure 18



Installing Optional Lifter Lock

Place the hook portion Lifter Lock on the Crossover Bar between the Upper Clamp and the interior "T" section. Then extend the strap with the lock mechanism attached. Once you have positioned the lock on the cabinet remove the male portion that includes the strap and install screws into the open holes (See Fig 18).

Installing Canopy Arm

Insert one end of the Canopy Arm into the elongated key opening on the extended portion of the Swing Arm. Then raise the short side of the cover so that it is parallel with the spa and slide the prong closest to the canopy arm on the bottom of the cover and the other prong on the top of the cover. Once the Canopy Arm is in place make certain the arm is locked firmly into the key on the Swing Arm and test that the cover is supporting substantial weight by pulling down on the cover.

Figure 19

