

Hydramatic w/ Vanishing Edge



2017 Revision

AQUAMATIC COVER SYSTEMS

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Be sure to read this manual for your safety, and care of your cover system. Your cover is one of the most advance designs in automatic covers and has one of the best warranties in the industry. However, improper care and operation may severely limit your warranty and life of the system.

Hydramatic w/ Vanishing Edge

The Hydramatic, All Fluid Drive Automatic Safety Cover System, is a unique patented system, powered by two interconnected hydraulic motors. One Motor drives the cover drum that pulls the fabric off the pool, and the other motor drives the rope take-up reel that pulls the cover fabric onto the pool.

This unit can be installed on a standard rectangular style pool, on top of the deck with a bench for retro fitting of irregularly shaped pools or on a Vanishing edge.

We will be discussing the additional steps and materials needed to install the Hydramatic on a Vanishing Edge pool.

These steps are an addendum to the Under / Top Recess installation manual, and should be read in conjunction with the other manual.

Unique Design:

The Vanishing Edge style pool has a unique design in the fact that one or more sides of the pool are lower than the rest to allow for water to flow over the edge and into a trough. This gives it a waterfall like appearance. As you would imagine this can create a challenge as far as safety is concerned, for you do not have the coping to attach the safety cover track to.

Aquamatic Cover Systems has come up with a solution for this, and with the help of this manual, you will be able to install the Hydramatic Cover System.



Hydramatic w/ Vanishing Edge

There are two styles of Vanishing Edges, one where the vanishing edge wall sloping into the pool and one that slopes away from the pool.

Here are examples of both:



Vanishing Edge Sloping away from Pool



Vanishing Edge Sloping into Pool

The installation of the drive mechanism is exactly the same for both units with the exception of the placement of the track and the use of a special guide / pulley assembly.



Special Guide / Pulley Assembly



Special Guide / Pulley Assembly & Eyebolt Pulley

Hydramatic w/ Vanishing Edge

Sloping into the pool Installation:

As mentioned before, you will want to use the Under / Top Recess installation manual as a primary guide for the unit installation, but with a few minor changes.

Track:

The track on the Vanishing Edge side is mounted vertically using the clear round plastic spacers.

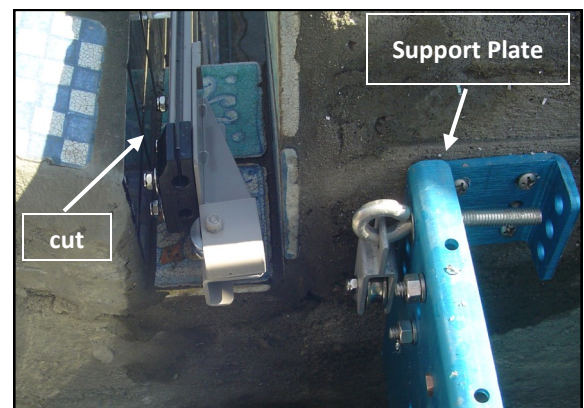
Start on the far end of the track (pulley end) and measure approx. 1" - 2" in. down from the edge of the wall. Do NOT mount the track lower than 2" in. This is where you want your track. If there is a far wall, push the track against that, if the end of the pool has a vanishing edge as well, extend the pulley just past the pool edge to ensure complete coverage when the cover is closed.

Mounting the track is much easier with two people, as one can position it, while the other drills. It is often easier to drill every other hole to hold the track into position, then come back and fill in the rest. Care must be taken while drilling as "tile" is often the material of choice and can crack easily. Be sure to use the track splicers to align the track at the joining point.

The track at the cover vault end will have to be cut short enough that the special guide / pulley assembly barely protrudes into the cover vault. That is approx. 1 1/2" in. The pulley portion should be the only thing that sticks into the vault.

This will allow for the rope to exit the guide / pulley and redirect to the additional eyebolt pulley.

The track on the other side is mounted in the traditional way.



Special Guide / Pulley Assembly & Eyebolt
Pulley

Mounting the Unit and Drum:

You will notice that the drum has an extended shaft. This allows for the support plate to be mounted on the opposite side of the slot created on the vanishing edge side for the track. The end bracket is mounted slightly lower than the drive side. The purpose for this is because the track is mounted vertically as opposed to the normal horizontal position. This now allows for the fabric to fold over onto itself as it is rolled onto the drum. These folds increase the diameter of the drum causing the fabric to want to pull up and out of the guide assembly near the end of its travel while opening and feed incorrectly while closing. One may have to adjust this height once or twice to find the perfect position.

The positioning of the drive unit is set at the height of a standard install, between the track and tiled beam. See instructions in the Under / Top Recess installation manual.

Hydramatic w/ Vanishing Edge

Additional Parts:

The Vanishing edge system uses a few additional parts. You will find an extra eyebolt pulley, a special guide/ pulley assembly, a 90 degree leading edge bracket and slider trolley.

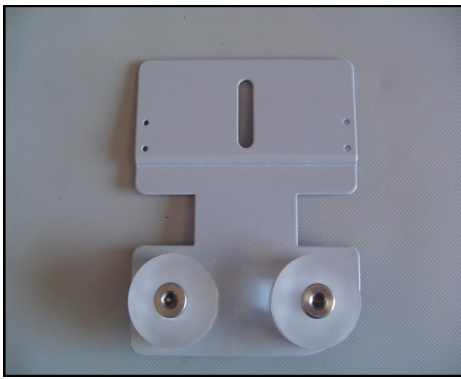
The special guide / pulley assembly attaches to the track on the vanishing edge side. As mentioned before the track will need to be cut shorter so that just the pulley extends into the cover vault.

The eyebolt pulley is attached to the front of the end support plate aligned with the guide / pulley assembly. This is so that the cover rope is directed around the end of the drum, versus over it. The special 90 degree leading edge bracket mounts directly to the underside of the leading edge bar and then extends down to the slider and trolley. And lastly the slider trolley is attached to the slider and leading edge bar. This is not always used, but it is designed to help keep the leading edge bar from leaning forward or back causing uneven pressure on the slider resulting in poor performance. Some minor drilling is required if used.

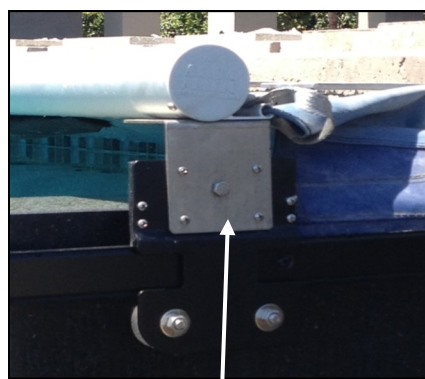


Guide / Pulley Assembly

Eyebolt



Slider Trolley



90 degree bracket

Rope Spooling:

With the inclusion of the extra pulleys, the ropes will be ran through slightly different on the vanishing edge side. The rope will now exit through the guide / pulley assembly then divert over to the extra eyebolt, back to the top of the double pulleys, from there over to the compensator pulley, back over to the lower of the double pulleys, then all the way over to the lower eyebolt at the rope spool.

See Diagram on back page.

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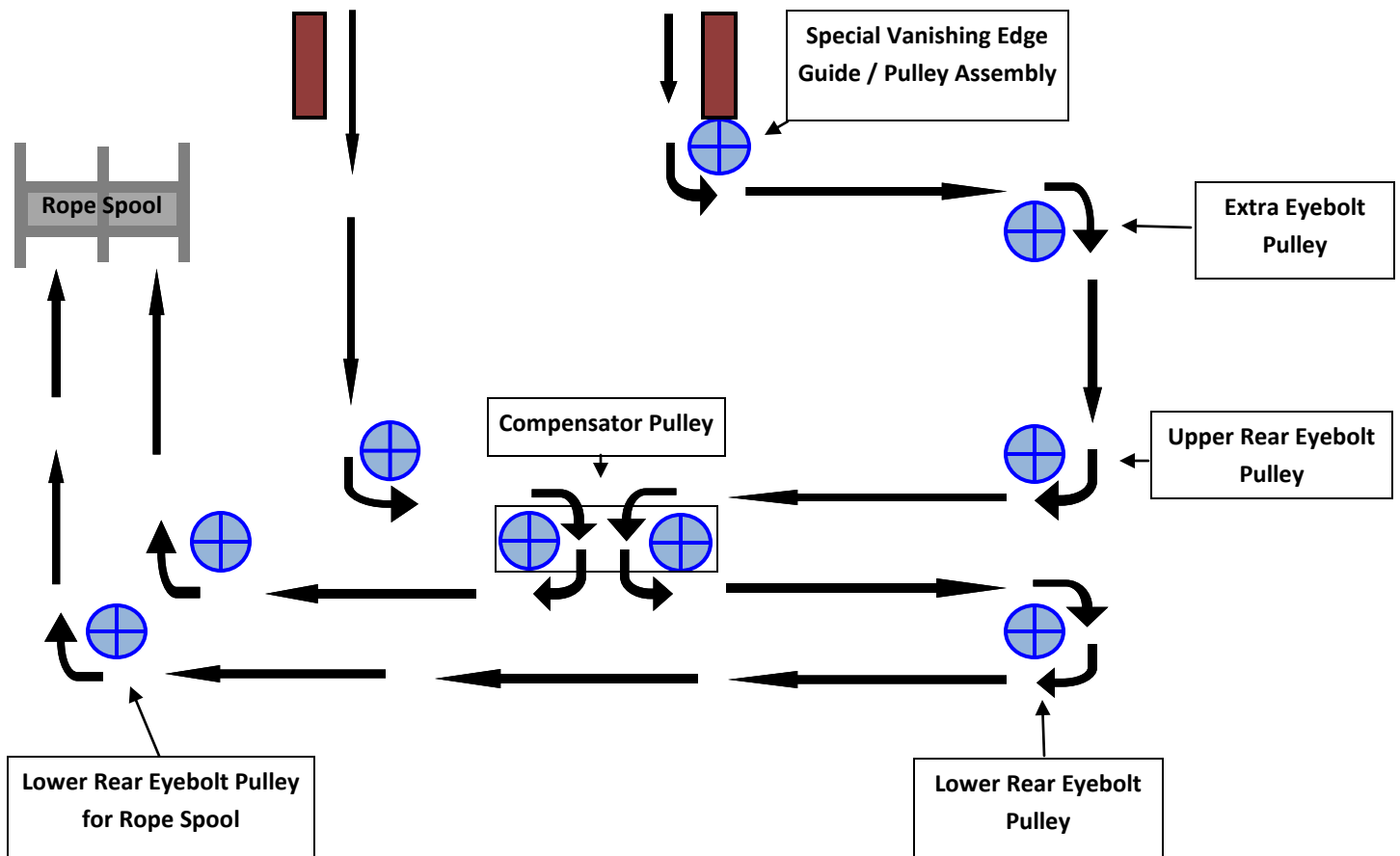
Vanishing Edge Sloping Away:

The installation of the Hydramatic unit with the Vanishing Edge sloping away is the same as a standard installation with the exception that you will mount the track at an angle and use the spacer blocks to raise it up to allow the water to flow. It also used a special 30-45 degree leading edge bracket . You may need to modify this bracket to increase or decrease this angle based on the slope.

You will still use the standard guides and hardware. The ropes will be spooled up the same as a standard unit. No special pulleys are needed.



Vanishing Edge Rope Spooling



The Rope Spooling is exactly the same if the Vanishing Edge is on the other side.

This is only done when the Vanishing Edge slopes into the pool.