

Prior to the use of this product, you should determine the safety, suitability and fitness of the product for its intended use.

As Trident, the manufacturer, or seller assume no liability arising out of the use or misuse of this product.

## INSTRUCTIONS FOR LENS INSTALLATION

Recommended items for installation and clean up include:  
Glass cleaner, Lint free cloth, tooth brush, warm and hot water.

Clean each lens and inner mask surface where the lenses will be glued.

*This step is most important on both "new" and "old" mask!*

Determine where you want to have your mask magnifiers glued into place.

*For best results cut out the guides below and tape to the outside of your mask.*

Place drops of glue onto the lens (flat side) or inside of the mask at each X; (see guide below) more glue is better than less.  
*9 drops are recommended for each lens installation. Excess glue is easy to clean up.*

Place flat side (not curved) of magnifier onto mask surface, carefully position the magnifier lens into place, make your final adjustments. Press firmly for about 5 seconds lightly squeezing out air from under lens.  
*Excess glue is easy to clean up with warm water & toothbrush after it has dried.*

Place mask (front of mask side down) on level area to allow glue to dry.

Glue sets in about 10 hours: Glue cures hard in 24-48 hours.

*Glue setting and curing times vary depending on temperature and humidity.*

Excess glue can be easily removed if needed with warm water and light brushing with a tooth brush after curing time.

Clean mask with cold soapy water after 10 hour setting time, use care around the lens; rinse out, defog it and enjoy your dive.

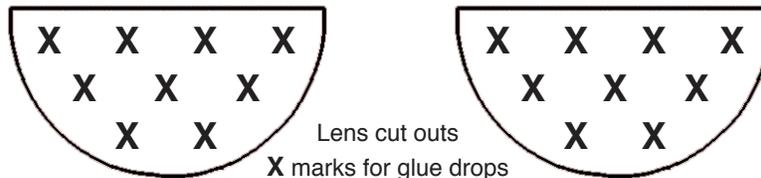
If you're not happy with the installation;

Lens or lenses can be removed with a hot water soaking;

Re-clean up all surfaces where gluing will take place and start over.

Lenses can be re-used over and over again.

***For more information, expanded directions and tips; please read the Aqua Optic Frequently Asked Question sheet at [www.tridentdive.com](http://www.tridentdive.com)***



**Lenses are available in 6 different + diopters: 1.0 1.5 2.0 2.5 3.0 3.5**

## Aqua-Optics Information and Recommendations

### Basics:

The benefits of removable lenses:

Removable lenses provide a cost effective means for magnifying objects both above and below the water.

They can be removed and re-installed in a new dive mask or different location.

### Why they can be removed:

Using a unique water soluble glue allow Aqua-Optics to be easily removed from your mask.

Over a period of time your vision may change or you may desire a different style of mask.

### **Installation tips:**

The Aqua –Optics lenses consists of a flat side and a curved side.

It is important to identify the proper (FLAT) side used for gluing the lens to the mask.

Gluing on the curved side will allow water and defoggers to easily get under the glued in lens.

Hands and any material used to clean and handle the lenses and mask must be oil free during the installation process.

Wash and dry your hands and avoid touching the areas to be glued.

Oil from fingerprints can affect the bonding area clarity.

Inside area of the mask and flat side of the Aqua-Optics must be clean and dry prior to installation.

Both new and old dive mask should be thoroughly cleaned before installing lenses.

Use hot soapy water and/or Trident “New Mask Cleaner” then rinse and dry using a lint free cloth.

Avoid using paper towels & napkins as they can leave paper fibers behind.

Lenses should be glued only on the INSIDE of the dive mask or goggles.

### **Glue in general:**

Goes on clear, dries clear, and is adjustable before drying.

It is removable, safe and Non-Toxic.

It is better to over apply glue than to under apply it.

Excess glue is easily removed using cold water and a tooth brush.

Do not use HOT water, as this will loosen the cured glue under the glass lens.

Use only on clean, dry surfaces.

### **Drying time vs temperature:**

Aqua-Optics should be applied in a clean, dry, warm environment.

The best temperature is above 75 degrees fahrenheit.

The minimum amount of setting time is 10 hours in a warm dry climate

and it is best to let the glue cure to hardness for 24-48 hours.

Drying times (curing) may vary with climate.

### **Defog effects:**

Defogs should be totally removed from inner mask surface prior to gluing lenses and should only be applied after the glue has fully dried 24-48 hours.

Defogs are available in different materials, silicone based and soap based defogs are best.

Alcohol defogs could affect the “water based” glued on lenses.

### **Storage and use:**

Caution should be used when storing your mask or goggles in hot or wet environments.

Do not apply hot water to mask when cleaning or using.

Do not leave your mask in a hot running shower or in a wet dive bag.

Make sure that your mask is stored dry in between dive days.

While wearing or left in water, over time water can slowly break down the glue.

Care must be taken if you're soaking the inside of your mask in water.

You should remember that you have removable lenses in your mask.

Know the factors that will release the lens from the mask.

### **Removal Tips:**

Hot wet heat will allow the removal of Aqua-Optic lenses.

The water soluble glue provides a special bond between the mask and lens,

hot water breaks the glue down and releases the bond.

Soak or flood your mask with hot (not boiling) water for 10-20 minutes to loosen the bond.

Use a light pressure to slide the lens out of position then remove.

If the lens will not move with light pressure, repeat the hot water soaking process.

### **Warning:**

Use only the glue supplied with Aqua-Optics.

**Using any other type of glue may cause one or more of the following;**

**Destroy your mask lens.**

**Destroy your mask silicone or rubber skirt.**

**Lenses may never be removed from your mask or goggles.**

**Cause damage to your mask or goggles.**

**Permanently cloud your mask or goggle lens.**

**Permanent gluing is not advised.**

**Do not use Silicone glue.**

**Using any glue other than what is supplied with the Aqua-Optics can cause permanent damage to the mask and silicone skirt due to corrosive effects.**

**Cleaning other types of glue can be difficult at best.**

Using clear glass glue can be used at your own risk.

**It is NOT recommended or suggested.**

Aqua Optics can at "your own risk" be mounted permanently with clear silicone glue;

**It is NOT recommended or suggested.**

## **Frequently Asked Questions**

### **Where should I install my Aqua-Optic lenses?**

The location will vary depending on the type of mask you use and the person wearing it.

Before applying glue, set the lenses into the mask in the general lower portion of the mask.

Move the lenses to the location allowing the best use of magnification and the most viewing area around the Aqua-Optics.

Keep the mask level during the setting process so the lenses don't slide (migrate) from their set position.

### **What if my Aqua-Optic lenses will not adhere to my mask?**

Make sure both the mask and lenses has been thoroughly cleaned and dried before installation.

Make sure the both surfaces are free from oil, fingerprints, dust and/or scratched surfaces.

Make sure the proper amount of glue is applied; more is better than less.

Be sure you have allowed sufficient amount of time (24-48 hours) for the glue to completely cure dry.

### **Should I apply the glue to the mask or the lens?**

You can apply the glue to either one.

The instructions that came in the package with the Aqua-Optics contain a diagram with the approximate distances between glue drops.

The design of your mask will dictate the application that will work best.

Depending on the type mask you have, it may be easier to apply it to the mask first or perhaps the lens.

Try fitting the Aqua-Optic to the mask before using the glue to find out what will work best for your installation.

### **How much glue should I use?**

You should use as much glue is necessary to make sure the entire surface of the Aqua-Optic is completely covered while bonding.

Using the guide provided on the Aqua-Optics package (shown above) will help.

### **What if I use too much glue?**

It is better to use too much glue than not enough.

You can remove any excess glue by rubbing off the dried excess with water and a soft brush (toothbrush) and warm water. This works best after 10 hours.

### **What if I did not use enough glue?**

Soak mask in hot water for 10-20 minutes and remove the Aqua-Optics.

Clean mask and lenses as per the instructions and re-apply with more glue.

### **What if after installation, I noticed my lenses had moved to an undesired location?**

If the curing process has already occurred, remove as per instructions and re-install.

If the glue has not dried yet, slide the Aqua-Optic back to the desired location.

Make sure the mask lens surface is completely level during installation so the lens will not slide out of position.

### **What if I have bubbles between my mask and Aqua-Optic lens?**

When applying the Aqua-Optic lenses, press firmly so all the glue can spread evenly over the lens and mask surface removing any bubbles.

Make sure enough glue is used to achieve proper coverage.

Warming the glue bottle in hot water can help avoid bubbles.

### **After installing my Aqua-Optic lenses, I can see small bubbles or haze. Why?**

It is not uncommon for small bubbles to appear as the glue cures and dries.

This will generally not affect your vision or the ability of the lenses to magnify properly.

Oil from fingerprints can cause a haze. Re-install if you like, or try the mask to see if it bothers you.

### **What if my Aqua-Optic lens falls out?**

Check to make sure both surfaces are free from defects or debris.

Make sure the proper installation procedure is used for cleaning and re-installation.

Using the correct installation procedures they should never fall out.

### **Why did my Aqua-Optic lens fall out?**

Was the proper cleaning and installation procedure used?

Leaving your mask exposed to direct sunlight for prolonged periods can affect the bond.

Leaving your mask in a soaking tub or rinse tank

for extended amounts of time can loosen the lens from the mask.

Leaving a mask in a wet dive bag or moist environment for extended time can weaken the bond.

### **What if my Aqua-Optics appears to be coming off?**

Remove Aqua-Optics as per removal procedure and re-install.

Extra amounts of glue were provided in the bottle that came with the kit for a few re-installations.

Extra glue can be purchased from your any Trident dealer

### **What if my lens has a defect?**

Contact the retail store immediately for replacement.

**Advisory:**

Due to the nature of the product and the environment in which it is being used, there may be other factors affecting the adherence of the Aqua-Optics. In order to allow the Aqua-Optics to be removable, a water soluble adhesive must be used. Due to this fact, there may be variables beyond our control making this possible.

It is advisable to inspect your lenses at regular intervals and before every dive to verify their ability to work properly.

**Trident is not responsible for any damages, malfunctions, or loss resulting in accidental removal before, after or during use.**

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