



## H2OG FOGGER Installation Instructions

The H2OG FOGGER can be installed on almost any motorcycle with saddlebags.

### Components included are:

- Pump unit
- Remote control
- Remote control mounting plate
- SAE 2 pin connector
- Water reservoir (1 gallon) with lid
- Funnel
- Tubing (20')
- Copper wire (5')
- T connector
- Straight connector (2)
- Filter unit for reservoir
- Dual Lock fastener (4')
- Zip ties (12)
- Misting nozzles (configuration may vary)
- 45-degree elbow connector (on some models)

### Tools required:

- Scissors
- Wire cutter (with straight side)
- Torque head tool (if using optional remote mounting plate)
- Drill and drill bits
- Depending on the motorcycle, various tools required for fairing removal

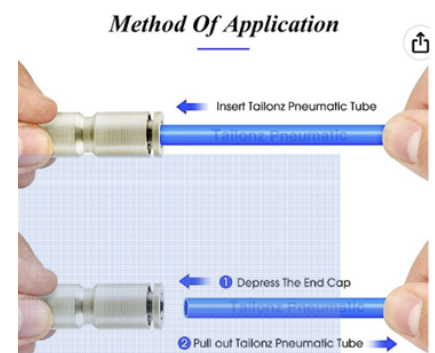
***The following instructions provide a step-by-step guide for installation. For additional instructions, refer to our Installation Video at [h2ogfogger.com](http://h2ogfogger.com).***

- **Unpack components.** To begin, unpack your components and ensure all listed items are included. Contact [h2ogfogger.com](http://h2ogfogger.com) with any issues.
- **Prepare motorcycle.** Park the motorcycle on a flat surface, ensuring it is cool enough to work on.
- **Determine the best location for reservoir and pump in saddle bag (or storage compartment).** Determine where and which side you want the reservoir and pump on. Try several areas in the saddlebag to determine the most efficient use of space. The pump should be mounted with the In and Out fittings pointing downward and may be mounted to the reservoir or any location to maximize space. The video includes examples of both Harley Davidson and Indian motorcycles for you reference. Once you determine the best location, drill a 1/4" hole on either side of the reservoir top, for the water line. ***The reservoir and pump can then be removed until later in the process.***
- **Connect the SAE 2 pin power line to battery, IF NECESSARY.** If your motorcycle has a trickle charger line, the SAE 2 pin connector on the pump unit will simply plug into this connector. Most motorcycles

have this installed. If no trickle charger line is previously installed, see your owner's manual, and connect the included SAE 2 pin connector wire from the motorcycle battery, so it can connect to the pump unit, which will be in the saddlebag. Depending on the saddlebag configuration, a hole may need to be drilled to run the wire from the battery to inside the saddlebag.


- **Install the tubing.** Run the included tubing from inside the saddlebag (leaving a few extra feet until later), through the same hole you used for the SAE 2 pin connector, down under the motorcycle, and up front to the center of the handlebars. **Depending on the configuration, some components may need to be removed in the fairing area.** If so, see your owner's manual for instructions on removal and re-installation. Secure the tubing to the motorcycle with the included zip ties, making sure to avoid hot areas as much as possible. Do not tighten the zip ties until later. The video includes examples of both Harley Davidson and Indian motorcycles for you reference.
- **Install handlebar tubing and connectors.** Next, run 2 pieces of tubing from the center of the handlebars, to the left and right side, approximately 16 inches in length. This is typically after the first bend in the handlebar, but short of the handgrip mechanisms. Cut the tubing, ensuring a straight and clean cut. Next, slide the included copper wire inside the tubing and cut to the same length. *The copper wire allows the operator to easily adjust the misting heads, so that once positioned, they will stay in place for maximum system efficiency.* Fasten the tubing to the handlebar with the included zip ties. Do not tighten all the zip ties until later.
- **Install connectors.** Connect the tubing from the saddlebag and the lines going to the handgrips, to the T connector and tighten the zip ties, working your way to the handgrip. **IMPORTANT: Regarding the T connector, ensure there are no restrictions in completely turning the handlebars from side to side.**

- **If you need to disconnect the fitting from the tubing for any reason, slide the ring against the fitting, towards the fitting, and pull the tubing out (see picture to right). Do not pull the tubing without pushing the disconnect device toward the fitting itself.**
- Cut the tubing and the copper wire to the desired length, ensuring a clean, straight cut. Depending on the handlebar, about 12 inches out from the center, after the first bend in the handlebar is preferable. Remember, you can always cut it shorter later on, once you become more familiar with the system. Connect the straight connectors to the outside end of the handlebar tubing. **DO NOT install the misting heads at this time**, until the system is run to flush out any debris.



- **Secure the tubing.** Tighten the previously installed zip ties, working your way back to the reservoir. This will be your "Out" line from the pump.
- **Place the Reservoir and Pump in the saddlebag in the desired location.** Leaving excess, cut the "Out" line to the desired length, ensuring it is a clean, straight cut. Connect the tube into the "Out" fitting on the pump.
- **Connect the "In" suction line.** Place a remaining section of tubing into the reservoir, through the previously drilled hole, on the top side of the reservoir. Pull the end that is in the reservoir through the fill opening and connect the included copper water filter connector. Then, reinsert the tube back into the reservoir, ensuring it reaches the bottom. *If desired, a 6-inch piece of copper wire may be inserted inside the tubing in the reservoir, to hold it straight and ensure it stays on the reservoir bottom. This is optional and not required in all cases.* Next, run the other end of the tubing to the pump, and after leaving approximately 1 extra foot of length, cut the tubing. Ensure it is a clean, straight cut. Connect firmly into the fitting on the pump that reads: IN.
- **Fasten the Reservoir and Pump unit in saddlebag.** The Dual Lock fastening tape is included for this purpose. Cut 4 strips at 7" and 4 strips at 4" in length. Removing the backing on two 7" strips, place

the fastening tape to the flattest portion on the back of the reservoir. ***A hard, smooth surface is important in order to allow the Dual Lock tape to adhere.*** Then place the remaining two 7" strips to the previously installed tape, snapping the fastener strips together. Remove the backing on these strips and mount the reservoir where desired. ***Press firmly for at least 30 seconds to ensure a strong bond.*** Repeat this procedure for the pump unit using the 4" strips of Dual Lock. ***The pump should be mounted with the In and Out fittings down and can be mounted on the reservoir or another smooth dry surface.*** Preferably it is in a tucked away location to keep it protected.

- **Mount the Remote-Control unit.** Determine the best location for the remote control. This can easily be mounted directly to the fairing or use the included remote mounting plate. Cut two strips of the Dual Lock fastener to 1-3/8" in length. Remove the backing tape, and place on the flat surface of the back of the remote. Snap the other strip of tape to the Dual Lock, remove the backing tape, and place in the desired area, either directly on the fairing or to the remote mounting plate. ***Press firmly for at least 30 seconds to ensure a strong bond.*** If using the included remote mounting plate, remove and replace a screw on the handgrip. The mounting plate is reversible and can be mounted top, bottom, left or right. Once in place, torque any mounting bolts back to manufacturers specifications. ***Again, you must hear the Dual Lock SNAP together, or it is not fully secure.***
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- **Determine Remote Control storage location.** While the remote control is extremely weather resistant, it is recommended to store it in a dry location when not in use. Therefore, place a small section of Dual Lock fastener in the saddlebag for secure storage. ***Store the remote in this location when not in use.***
  - **Flush system out.** Using the included expandable funnel, fill the reservoir with water. ***Distilled water is strongly recommended. The better the water, the less maintenance required and the longer the misting heads will last.*** This can be purchased at most grocery and convenience stores. Turn the system on by pushing the lower right button on the remote control, marked with a SQUARE. It can take a minute or so for water to work its way through the system. Flush the system out for at least 30 seconds. Turn the unit off by pushing the lower left button on the remote control, marked with a LOCK. *Your kit may include upgraded straight connectors or 45-degree elbows.* Depending on the configuration, install the straight misting heads into the previously installed straight connectors, or the elbows and screw in misting heads.
  - **Test the system.** Turn the system on again by pushing the lower right button. The pump always starts at low speed and can be changed with the up and down arrows on the remote. Push the up button once for medium, and once again to high. Follow this same order with the down arrow to lower the pump speed. Inspect all fittings to ensure there are no leaks. If a leak is observed, shut the system off and check to ensure all fittings are fully inserted, and the tubing end is cut square and clean. *Refer to the included Safety and Operating instructions if you need to separate the tubing from the fittings.* The expandable funnel can be collapsed and stored in the saddlebag. It is brightly colored to easily locate.
  - **Enjoy.** Your system is ready to operate! **See operating instructions for proper use.** Enjoy your ride!

## Safety and Operating Instructions for H2OG FOGGER



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3. Intended Use
4. Operating and Maintaining the Device
5. Cleaning and storage of the device

## 1. Introduction

All information and instructions in this Safety and Operating Instruction document have been compiled in consideration of current standards and guidelines, the state of technology, and our experience and knowledge.

Safety and Operating Instructions, and the Installation Instructions are separate documents to be found on the company website. These documents provide you with the information necessary to install and operate the products, equipment, and devices.

No guarantee is given for the information provided. The company reserves the right to make technical changes to the equipment or changes to this document without any prior notice.

The present Safety and Operating Instructions informs the operator how to:

- Operate the device according to safety requirements,
- Intended use,
- Maintain the device according to guidelines,
- Clean and store the device according to guidelines,

The operator is urged to:

- Read the Safety and Operating Instructions and understand all issues related to the proper use of the product.
- Please also read the entire Installation Instructions carefully and completely before installing and using products, equipment and devices.
- If any of the instructions should be lost or misplaced, operator can locate the latest version from Company website: [h2ogfogger.com](http://h2ogfogger.com).
- Any guarantees and warranties shall apply only to manufacturing-related defects.
- In addition to the Safety and Operating Instructions, follow all general and local regulations.

## 2. Safety Information

These instructions facilitate safe and efficient use of products and equipment. The instructions are part of the information package and must always be kept near products and equipment and should be available for the operator, at any time.

## Notes on using these Instructions.

- Before starting any tasks, personnel must have carefully read and understood these instructions.
- This section gives an overview of all important aspects of safety for the protection of individuals and to ensure safe and trouble-free operation. Refer to the safety instructions of your motorcycle for additional safety instructions.
- Use the products, equipment and device only for its intended purpose of cooling the rider(s).
- Safety eye protection must always be used with the product.
- The remote-control switch must be mounted to allow easy access for the operator to control while driving. Ensure it is mounted in the area with other controls, within easy reach with the motorcycle in motion.
- The system is meant to cool the rider(s) with a light mist toward the chest and neck area. It is not intended to be pointed directly at the rider's face or eyes that could impact the ability to see and operate the motorcycle. If the light mist does appear on the rider's eye protection, it will appear similar to that of a light rain. Even though driving through rain is common, care should be exercised.

## 3. Intended Use

The products and equipment are designed and intended for specific purpose as described. The user is solely responsible for applications which go beyond the intended use described here and for each individual product or equipment or device, which are not described in these instructions. The company does not accept any liability beyond the intended usage.

**See separate document for Installation and Initial Start-up.** The Installation Instructions include setting up the product, equipment and its connections. See the separate document and video for proper installation instructions. This can be found online at: [h2ogfogger.com](http://h2ogfogger.com).

## 4. Operating and Maintaining the device

All products and equipment must be assembled carefully and safely.

- Regularly check all lines, hoses and connections under pressure for leaks and externally detectable damage.
- Never use any fluids in the system other than water. Distilled water is highly recommended.
- The cooling system is designed to allow the mist to be aimed toward the rider's neck and chest area. This will allow for the maximum cooling effect. The mist should not be directed toward the rider's face.

***The remote-control device is used to control the operating system.***

- Turn the unit ON by pressing the lower right button with the "square" one time. Turn the unit OFF by pressing the lower left button with the "lock" one time. When turned on, the unit will start in the low speed. Push the up and down arrows accordingly to go from low, to medium, to high, and back down again. The unit has 3 speeds.

- As mentioned in the Installation Instructions, the remote-control unit should be stored in the saddlebag when not in use. While it is weather resistant, and can be left in place if it rains, it is best to store it in a safe, dry location like the saddlebag, when not in use.
- Depending on the temperature and motorcycle speed, it may be desired to turn the pump on and off to conserve water while staying comfortable.
- Because the cooling system is hooked directly to the battery, it will be live at all times, whether the motorcycle switch is on or off. Turn off when the motorcycle ride is complete, or the cooling system is not needed. The system will automatically shut off after 45 minutes of operation, to ensure an unattended system does not drain the battery. If the unit automatically shuts off while riding, simply turn the unit back on.
- As with all motorcycle riding, proper eye protection must be worn.
- **Distilled water is highly recommended. All water obviously works, but additional cleaning of the motorcycle and misting heads will be required with other water.**
- The copper wire inside the tubing on the handlebar is intended to allow for immediate and often adjustment. As situations change like speed, sidewinds, humidity, temperature, these can and should be adjusted for the rider comfort. Simply push them in place and they stay in that position.
- Use as little water as possible to stay cool. As saddlebag space is extremely valuable real estate, the standard water reservoir is limited to 1 US gallon. Therefore, turn the unit on and off, and run at the lowest pump speed possible, while keeping the operator cool. It is recommended to conserve your water until you get used to the system and process. Obviously, a spare gallon jug of water can be carried on the motorcycle for long rides in extreme heat conditions.
  - ***The reservoir will last approximately:***
    - ***4 hours on low speed***
    - ***3 hours on medium speed***
    - ***2 hours on high speed***



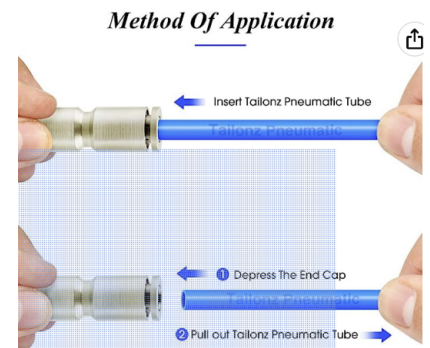
## 5. Cleaning and Storage of the device

**As with all water systems, there will be some maintenance required. As mentioned, distilled water is strongly recommended. The better the water, the less maintenance required and the longer the misting heads will last!!** This can be purchased at most grocery and convenience stores.

- Formation of scale deposits **WILL occur in the misting heads and on your motorcycle if "hard" water is used.** This will come off the bike surface, however, scrubbing is required. Refer to your motorcycle operating manual for proper cleaning.
- If the misting heads are not misting properly, try soaking them in a liquid like CLR, to remove calcium, will clean the items and make them operate properly. DO NOT use this product on the motorcycle itself, only the H2OG FOGGER misting head components.

The system will freeze and cause damage if left unattended in cold climates. Once the heat of the season is over, the system is designed to be easily removed from the motorcycle to allow additional saddlebag space for clothing or other apparatus. ***It can also be removed in minutes any time cooling is not needed.***

- Simply disconnect the SAE 2 pin connector, then remove the tubing from the connector on the pump marked with the word "OUT". To disconnect, slide the ring against the fitting, towards the fitting, and pull the tubing out (see picture). ***Do not pull the tubing without pushing the disconnect device toward the fitting itself.***
- Separate the DUAL LOCK fastener and remove the pump and reservoir from the saddlebag area.
- Blow any remaining water out of the entire system if freezing conditions are possible.
- Store the pump and reservoir in a safe and dry location.



**Check the H2OG FOGGER website for Updates and Frequently Asked Questions**