

# QUICK START GUIDE

1. Unpack your unit.

## **DANGER:**

***CO2 Cartridge should NEVER be left in an enclosed vehicle exposed to the sun!***

***The CO2 cartridge contains 8 grams of liquefied Carbon Dioxide at about 850 psi.***

***If heated the pressure in the cartridge may cause the cylinder to vent at the threaded end thus inflating the airbag. The 8 grams of CO2 when released will release 5 liters of CO2.***

**NEVER install the CO2 cartridge without 1<sup>st</sup> installing a TRIGGER BOBBIN**

***Failure to do this WILL cause the cartridge to vent its contents and deploy the airbag.***

**NEVER use a different size CO2 cartridge as it will burst the airbag upon deployment and your drone will sink.**

2. CHARGE THE AUTOMATIC ACTIVATOR

- a. Remove by unscrewing the Clear plastic cover on the Automatic Activator
- b. Remove the Trigger Bobbin from the plastic/foil package
- c. Install the trigger bobbin into the end of the automatic activator.
  - i. NOTE: the trigger bobbin cannot be installed incorrectly. It will only fit into the activator one way and it will easily drop in.
  - ii. The white surface with ridges points outward and is visible when installed correctly.
- d. Screw on the clear plastic cover all the way until its bottom edge mates with the black flange on the automatic activator.
- e. Install the CO2 cartridge by screwing it in clockwise until it seats tight. There is an "O" ring gasket that compresses when the cylinder is tight.

3. INSTALL ON DRONE

- a. **CHECK WEBSITE "DOWNLOAD PAGE" FOR APPLICATION NOTES SPECIFIC TO YOUR DRONE!**
  - i. These notes are based on comments and recommendations from pilots like yourself in an attempt to make life easier for all of us.
- b. The CO2 Cartridge **MUST** point forward for proper operation of the DRONE-RETRIEVE in rain
- c. Determine mounting location that provides no negative effect on Center of Gravity, or interference with propellers.
  - i. Note: on some drones where the drone power button is positioned on the top of the drone just behind the power On/Off button.
  - ii. Many of these types of Drones have sufficient space on the bottom of the drone as another mounting option.
  - iii. Most Drones will require deactivation of vision systems which is recommended by the manufacture when flying over water.
- d. ***The recommended method of attachment is to use at least 2 mounting techniques due to the amount of force that will be exerted on the drone during a water impact.***
- e. Primary mounting method
  - i. Use the 4 Dual Lock pads to attach the drone retriever to the drone.
    1. CAUTION: make sure that the area where you plan to attach the Dual Lock pad is clean and free from ANY oils, wax, etc. These pads have a VHB (Very High Bond) adhesive and for proper attachment this adhesive needs a good clean surface. Do not reuse these pads. The adhesive properties will be seriously reduced if the pad is removed and reinstalled. Also the adhesive on these fasteners becomes stronger over time thus let them sit for a day of so it increase the bond strength.
  - ii. Take the time to make sure that you get it right the 1<sup>st</sup> time.
  - iii. Mount pads on DRONE RETRIEVER unit first use very firm pressure to insure that the adhesive makes good contact with the surface of the DRONE RETRIEVER.
  - iv. Then lightly attach mating pad without removing the protective plastic protection over the adhesive to the already installed pads on the DRONE RETRIEVER.
  - v. Position the Drone retriever on your drone.
  - vi. Mark the corners of the Dual Lock pads on your drone.
  - vii. Remove the protective covering, align with your alignment marks and then press to attach the pads.
  - viii. Remove the DRONE RETRIEVER and use very firm pressure to adhere the pads to the drone.

- ix. Attach DRONE RETRIEVER to your drone making sure that the CO2 cartridge points forward.
  - x. This completes the first attachment method.
- f. SECOND mounting method.
- i. The DRONE RETRIEVER is provided with two slots in the bottom front and back and left and right sides.
  - ii. A *reusable* 15" long Ziptie is provided.
  - iii. The Ziptie can be slid through the black plastic enclosure between the enclosure and the orange airbag. To facilitate easy insertion bend the end of the zip tie downward so that as it is pushed through the enclosure. Note: The end of the Ziptie points downward against the enclosure bottom.
  - iv. Wrap the Ziptie around the Drone and pull snugly. Verify that the Ziptie does not obstruct any vision system sensors.
    - 1. NOTE: When flying with the DRONE RETRIEVER over water it is recommended by drone manufactures to turn off the vision systems.
  - v. INSURE that the Ziptie tail is pointing downward and away from any propellers.
  - vi. The Ziptie is easily removed and is reusable. Depending on your drone dimensions the length can be shortened as necessary.
4. STORAGE:
- a. The drone retriever should be stored in a clean dry place such that excess humidity and water does not come in contact with the activator.
  - b. We recommend reading "HOW IT WORKS" to better understand how your DRONE RETRIEVER operates.
  - c. Additionally you should be familiar with "PRE-FLIGHT CHECKLIST and MAINTENANCE" guide.