



## OWNER MANUAL

# AGIR Blackbird 36 wing

This is Your manual. Please read it through before using the wing.  
The AGIR wing is not a lifejacket: it does not guarantee a head up position of the wearer at the surface.



- The AGIR Blackbird is a single bladder 36 lbs´ (150 N) lift wing. The outer shell is made of 1000 denier Cordura (rugged ballistic nylon). Its 360 degree inner bladder is manufactured from ultrasonically welded 400 denier Cordura, a puncture-resistant material - originally designed for flotation devices.
- The inflator has a reinforced mounting hole with a 14" long corrugated hose. The low pressure hose is 24" long to simplify use with a variety of first stage positions. Both the elbow and inflator assembly can be adjusted for optimum positioning. Please contact your AGIR dealer for advice.
- The inflator does not have a pull-dump. The inflators minimum working pressure is 6 bar and its maximum working pressure is 34 bar.
- The overpressure- / dump valve (OPRV) is on the lower left side of the wing.
- The valve is equipped with a 6" long, 3 mm thick nylon cord.
- The Blackbird wing -, its inflator and OPRV have been built to handle diving in cold, arduous conditions.
- The Blackbird wing has comparatively straight sides to enhance diver trim.
- The Blackbird wing can be adjusted in two different positions, which assists in optimising trim whilst venting excess gas.
- The form and the 360 degree inner bladder enables gas to move easily from one side of the inner bladder to the other, for simple, fast and effective release of excess gas.
- The OPRV may be used for adjustment of buoyancy when in horizontal position, reducing the need for diver movement.
- The AGIR Blackbird wing is designed to be used with AGIR backplate and harness.

## MAINTENANCE AND CARE

Thoroughly rinse the wing in fresh water after use to prevent salt, grit, dirt and chemicals damaging the exposed parts, inner bladder and valves. Ensure that both the outer shell and the inside of the inner bladder, are rinsed.

The inside of the inner bladder is rinsed by filling it a ¼ full of freshwater. Depress the oral inflation / deflation button (OID-button) and let fresh water pass through the corrugated hose into the bladder. Fill the remaining ¾ capacity with air and then distribute the water throughout the inside of the bladder. Finish by purging the bladder of *all* water. To achieve this, it´s necessary to start with a fully inflated bladder, keeping the inflator at the lowest point, with the corrugated hose hanging vertically. When in this inverted position, the wing may be emptied by depressing the OID button and if necessary gently squeezing the air and water out.

Fully inflate the wing again and empty. Repeat the procedure until all water is gone. When in cold weather / water the inflator must be **dry** before diving.

#### PRE-DIVE ROUTINE CHECKOUT

1. Inspect the **whole** (both soft and hard parts) wing before diving, for tightness, structural integrity and damaged parts. Damage may appear as cracks, cuts, punctures, stitching faults et c. Retighten the valves if necessary.
2. Connect the LP-hose to the power inflation valve fitting and inspect all moving and non-moving parts for proper operation including, but not limited to, the dump valve, oral inflator mechanism, power inflator mechanism and all hose connections. If there is any damage to the wing, **DO NOT** dive with it.
3. Make sure that the dump valve vents properly. Check it by slowly fully inflating the wing until excess air opens the valve. The reduction in pressure should then close the valve completely. If the valve fails to open or close correctly it must be inspected by your AGIR dealer or TVM Develop AB.
4. If a leak is discovered during diving, abort the dive and follow due ascent routines.

#### POST-DIVE ROUTINE

1. After pool or salt-water use the wing should be rinsed thoroughly inside and out with fresh water -, -see description above. Salt crystals can build up inside the inner bladder causing permanent damage to the urethane coating of the bladder.
2. Wash the exterior of the wing with water and, if necessary, a mild detergent and rinse. Be sure to remove all organic and inorganic material from the cover (and under the zipper cover) by using a light soft-bristle brush.
3. Fully inflate the wing and let it dry. Check for leaks.
4. When drying, avoid prolonged exposure to direct sunlight.
5. Lubricate the low pressure inflator hose coupling with O2 compatible grease or equivalent.
6. Before storing, be sure the wing is dry. Store it partially inflated in a cool, dark and dry place.

#### GENERAL MAINTENANCE:

1. Do not allow the wing into contact with anything sharp. Do not lie heavy objects on the wing.
2. We recommend that the zipper be checked periodically by opening and closing it. It is good practice to give the zipper a light coat of liquid paraffin before storing the wing.

3. Routinely inspect parts listed in paragraph 2 of the PRE-DIVE ROUTINE CHECKOUT for proper tightness. If parts need to be tightened, use only AGIR original tools. Use of other tools may cause damage to the parts.
4. Avoid prolonged exposure in sunlight as both ultra-violet and infra-red radiation will cause deterioration.

## **WARNING.**

1. In cold weather / water the inflator must be dry before diving.
2. Ensure that sharp objects do **not** come in to contact with the wing.
3. Use only AGIR original tools to avoid damage to your wing.
5. Always clean the inside of the inner bladder with fresh water or you will start crystalline salt build-up! Salt crystals are angular and, if allowed to grow, may cut your wing from the inside out.
6. Keep the inner bladder free of water or you will affect its lift. Repeated, improper use of the dump valve or the Oral Inflation / Deflation Valve assembly on the corrugated hose may allow water to enter the wing. The subsequent reduction in the amount of buoyancy provided by the wing can cause loss of buoyancy control and may result in serious injury or death.
7. Do **not** modify the wing.
8. If the wing needs to be repaired, serviced or configured, contact your AGIR dealer or TVM Dvelop AB. We strongly recommend an annual service by authorised service personnel.
9. This wing should be used only after proper certification and instruction in the use of buoyancy control devices has been successfully completed. It has been designed to control your buoyancy to make your dive safer, easier and more comfortable. Your buoyancy compensator is **not** a life jacket, flotation device or substitute for proper swimming and diving skills. It does **not** guarantee the wearer a head up position at the surface.
10. Do your first dives with the Blackbird wing in a controlled environment, i e in shallow water during good conditions, preferably with a qualified instructor present.
11. Do **not** use the AGIR wing until you have read, understood and followed all instructions and safety precautions in this owner manual.