TAC-AIR G2

Air Crewman Survival Vest

User's Manual

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SAFETY—ABOVE AND BEYOND

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The following symbols are used throughout this manual:

WARNINGS indicate a procedure or situation that may result in serious injury or death if instructions are not followed correctly.

CAUTIONS indicate any situation or technique that will result in potential damage to the product, or render the product unsafe if instructions are not followed correctly.

NOTES are used to emphasize important points, tips and reminders.

1. Introduction

The TAC-AIR G2 Air Crewman Survival Vest is designed to support air crew and pilot operations over land and water. It provides safety, rescue, and equipment features on a low profile vest to maximize mobility and flexibility.

The vest is adjustable so that one size can fit all users and it can be adjusted as the user's mission changes to accommodate equipment such as body armor, warm weather clothing, anti-exposure suit, etc.

The vest is designed to allow its user to position their equipment pockets wherever they choose using the MOLLE system. The body of the vest is made with raschel knit fabric to provide comfort and minimize heat stress.

The vest has a built in harness system for insertion/extraction purposes and a tether point for safety and rescue missions.

The vest is designed to accept a variety of flotation collars and devices that will support its user in the event of a water emergency.

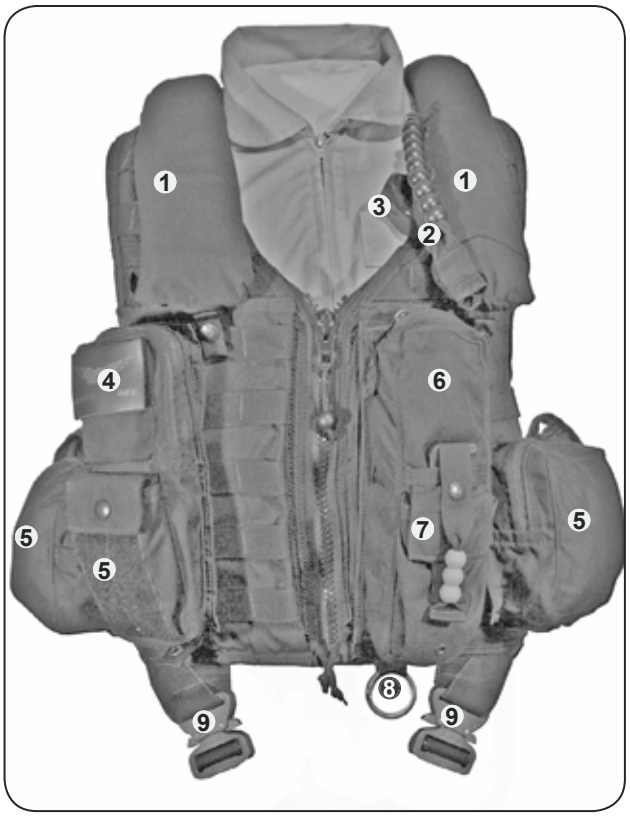
The TAC-AIR G2 vest is an important piece of survival equipment. Proper care and maintenance will ensure your vest will accomplish the level of safety performance it is designed for. It is important that you become familiar with these instructions to safely use this vest.

WARNING

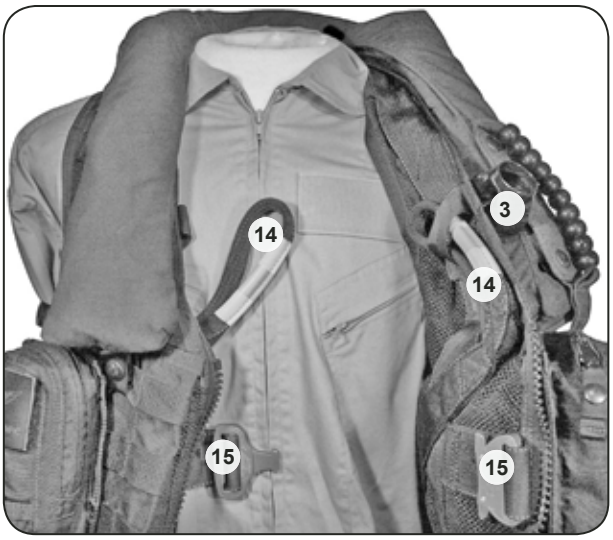
KEEP YOUR VEST IN USABLE CONDITION. IMPROPER WEAR MAY RESULT IN DAMAGE TO THE COLLAR. DO NOT WEAR ANY GARMENT OR PIECE OF EQUIPMENT OVER THE COLLAR. IMPROPER USE OR NEGLIGENT CARE OF THIS EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH.

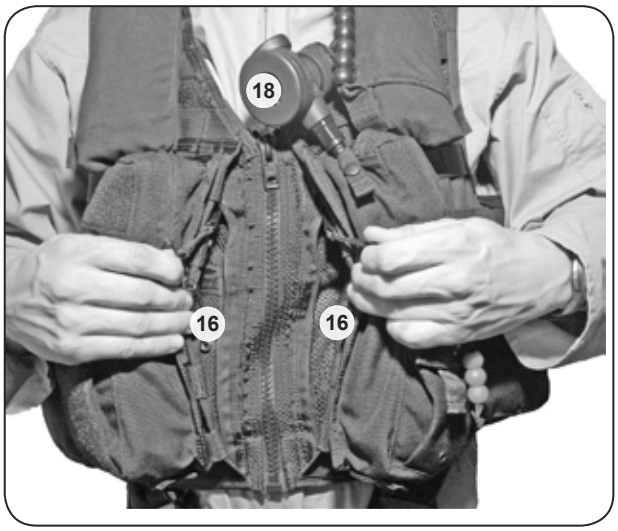
2. Reference List

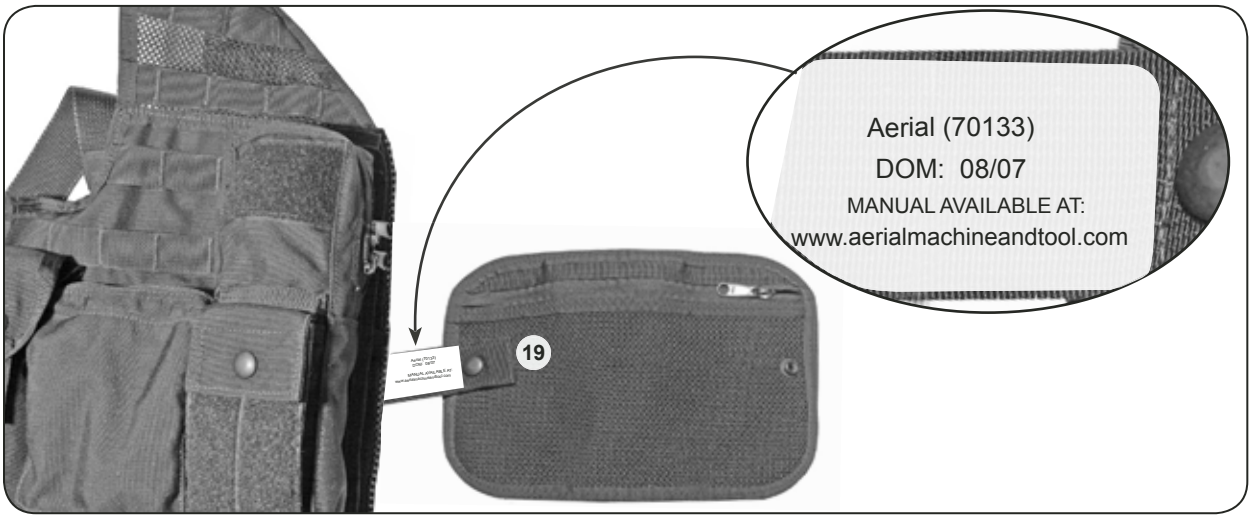
1. Flotation Device Assembly (optional)
2. Flotation Device Activation Handle
3. Survival Egress Air (SEA) Mouthpiece Dust Cap (optional)
4. Radio Pocket
5. Utility Pouch
6. Survival Egress Air (SEA) Convertable Pocket
7. Knife Pocket
8. LPU-40 Cinch Ring
9. Leg Strap Attachment Buckle
10. Tether Attachment Loop/Grab Handle
11. Diagonal Harness Adjustment
12. Horizontal Harness Adjustment
13. Multi-purpose Pouch



14. Insertion-Extraction Loops
15. Chest Strap Attachment Buckle
16. Inside Pocket
17. Equipment Platform (located inside both left and right inside pockets)
18 Regulator and Survival Egress Air (SEA) (SEA optional)
19. Information Label (right side equipment platform)







3. Donning the TAC-AIR Vest

Ensure the harness is not twisted or misrouted, and the leg straps hang free before donning the TAC-AIR vest.

3.1

Put the TAC-AIR vest on like you would a jacket.

3.1 Vest position.

3.2

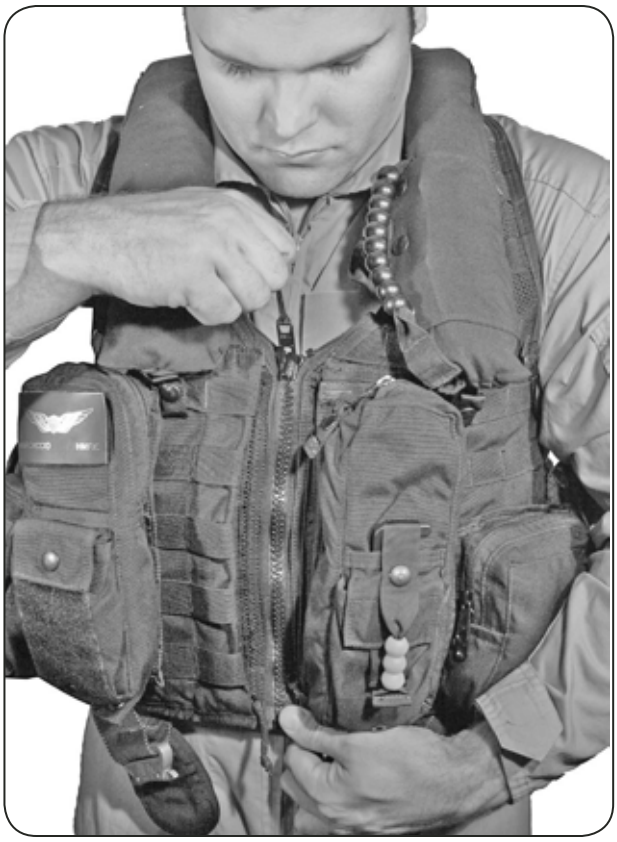
Attach the chest strap buckle and adjust it for a snug fit.

Route the free end of the webbing through the elastic keeper and secure it with the Velcro® tab.

3.2 Attaching the chest strap buckle.

3.3

Close the TAC-AIR vest by zipping the slide fastener up.



3.3 Closing The TAC-AIR vest.

3.4

Attach both leg strap buckles and adjust them for a snug fit.

Route the free end of the webbing through the elastic keeper and secure it with the Velcro® tab.

3.4 Attaching the leg strap buckles.

4. Adjustment

It is important that the TAC-AIR vest is properly fitted and the free ends of the harness are properly stowed. There are three adjustment points on the back of the TAC-AIR vest. Adjust the TAC-AIR vest so it fits snug and feels secure and comfortable. Do not adjust the harness so tight that it restricts movement. You may have to don and remove the TAC-AIR vest several times to achieve proper adjustment.

4.1

Tighten the harness by pulling the free end of the webbing through the friction adapter.

Loosen the harness by pulling the webbing back through the friction adapter.

4.1 Harness adjustment locations.

4.2

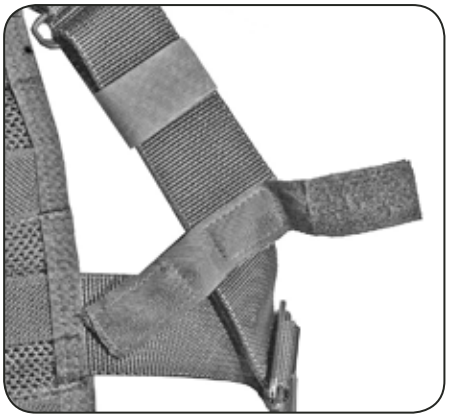
Stow the harness free ends after the TAC-AIR vest is fitted.

1. Thread the webbing through the elastic keeper;
2. through the metal wire bar;
3. and back through the elastic keeper.
4. Secure the free end of the webbing with the Velcro® wrap.

4.2 Step 1.

4.2 Step 2.

4.2 Step 3.



4.2 Step 4a.

4.2 Step 4b.

5. Tether Attachment Loop/Grab Handle

Use the tether attachment loop to anchor the Personal Restraint Tether (PRT) to your vest. You have fall protection when the PRT is attached to an anchor point in the aircraft. If you fall from the aircraft, the shock load will be distributed through the PRT system and the whole harness, thus preventing a single-point shock load. The tether attachment loop can also be used as a hold-handle if the user requires assistance.

5.1

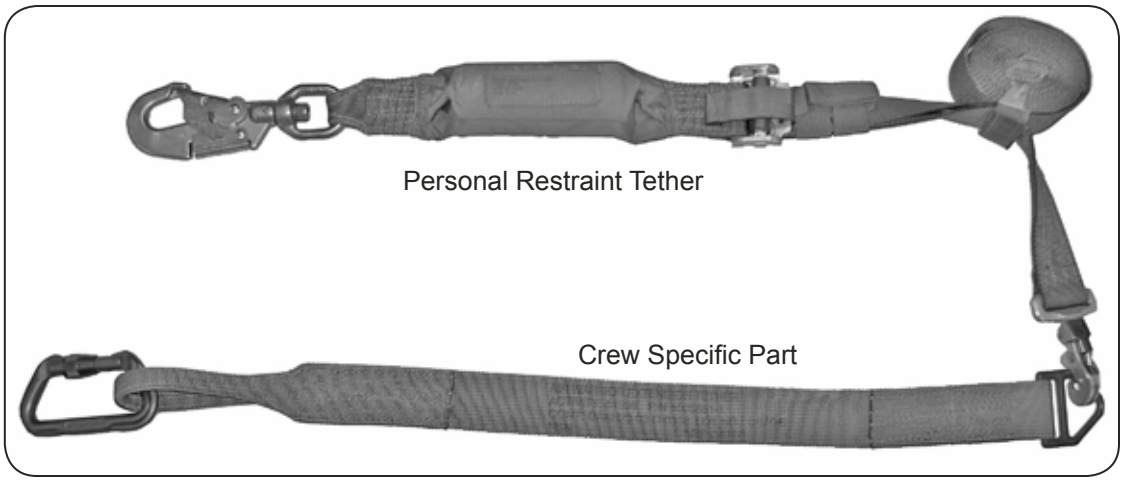
The tether attachment loop is located on the back of the harness.

Keep the loop in the stow pocket when not in use.

5.1 Tether Attachment Loop.

5.2

Use the Crew Specific Part (CSP) to connect the Personal Restraint Tether (PRT) to the tether attachment loop.



5.2 The CSP attachment and the PRT tether.

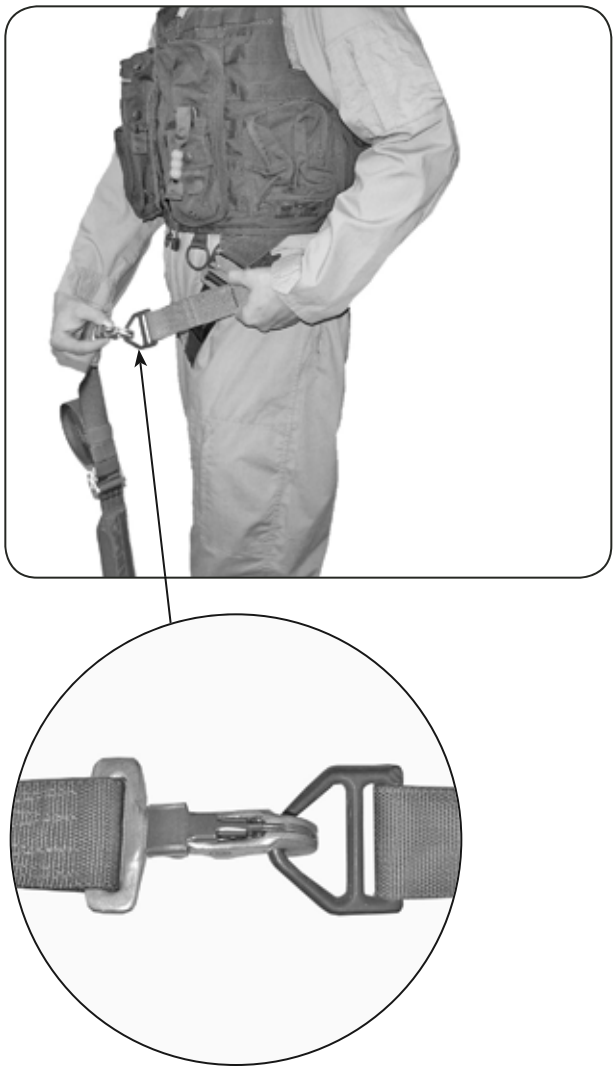
5.3

Attach the CSP to the attachment loop with a carabiner.

5.3 Hooking the CSP to the tether attachment loop.

5.4

Attach the quick release snap on the PRT to the V-ring on the CSP.



5.4 Hooking the PRT to the CSP.

6. Insertion-Extraction Loops

The TAC-AIR vest has lifting loops to assist insertion and rescue efforts. They are located on the inside of the vest at chest level.

The following steps must be completed to ensure a safe extraction or insertion.

To prepare for an insertion or a rescue emergency lift:

6.0 Extraction/Insertion loop location.

6.1

Tighten your chest and leg straps so the TAC-AIR vest is tight on your body.

Ensure that the slide fastener is closed all the way up.

6.1 Vest preparation.

6.2

Join the two loops together to accept the carabiner. Attach the carabiner through both lift loops.

⚠ CAUTION

BOTH loops must be attached to the carabiner.

6.2 Hooking up the hook or carabiner.

7. Equipment Pockets

The equipment pockets on your TAC-AIR vest are designed to accept a variety of equipment. Two large front pockets will carry a radio and an emergency-air bottle. The two inside pockets contain an equipment platform for survival items. All of the outside equipment pockets attach with a modular (MOLLE) system that allows you to add, remove, and adjust each pocket to fulfill the unique requirements of individual missions. This system, along with equipment tie-down cords in the pockets, provides a secure platform for all your equipment. Additionally, an optional utility belt can be attached to the bottom of the vest for more storage options.

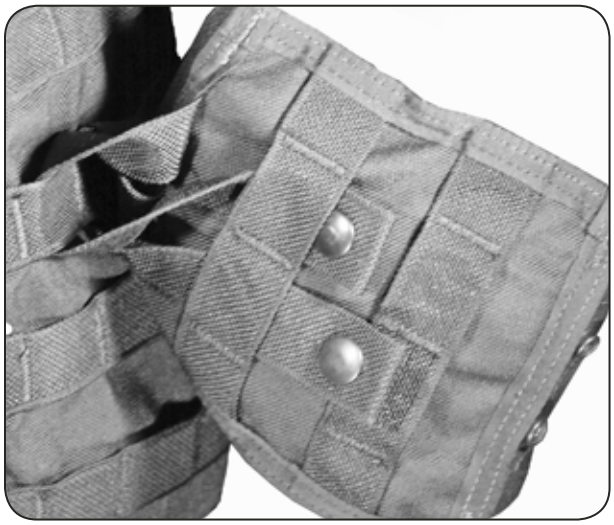
7.1

Use the channeled webbing sewn to the vest to attach your pockets.

7.1 Channeled Webbing.

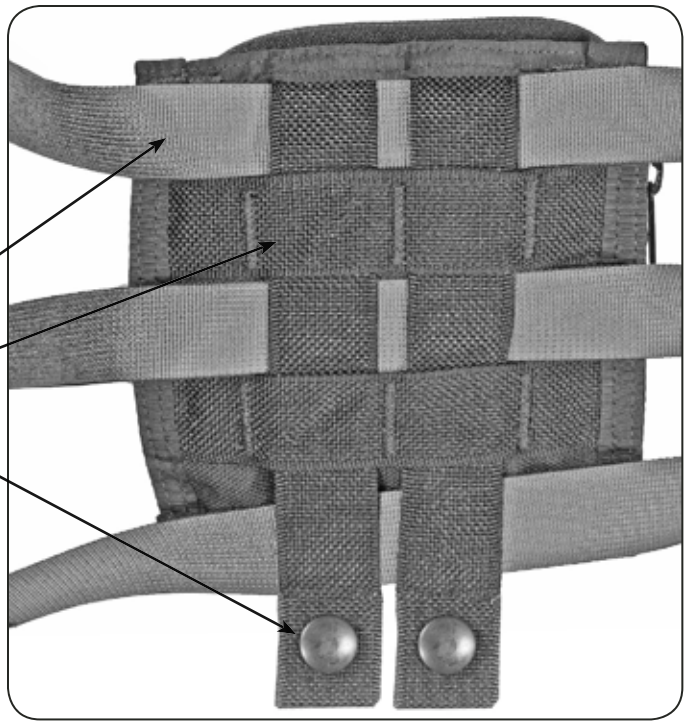
7.2

Weave the pocket onto the vest with the pocket free-end straps by threading the straps through both the vest channeled webbing, and the channeled webbing on the pocket.



7.2 Weaving the pocket onto the vest.

7.3



7.3 Weaving Pattern.

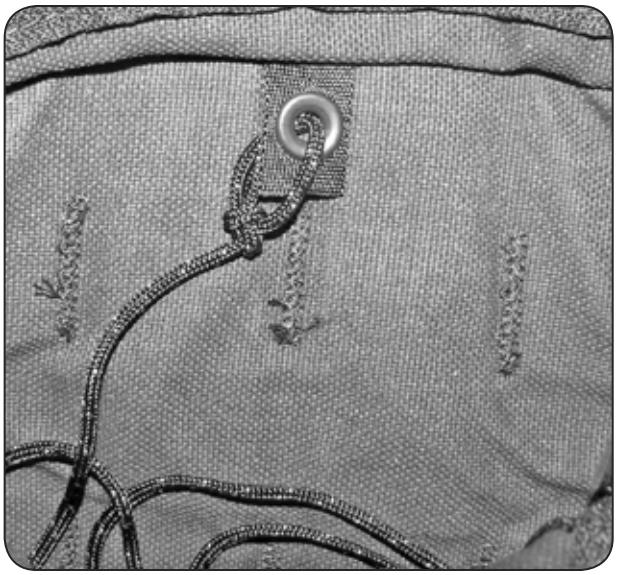
7.4

Secure the snap fasteners on the bottom of the pocket.

7.4 Pocket Fasteners.

7.5

Anchor cords are located inside the pockets. Use these cords to secure the items you store in the pockets.



7.5 Anchor cords.

8. Equipment Platforms

8.1

Two equipment platforms are located in the front-inside pockets.

8.1 Equipment platform location.

8.2

The platform has a storage pouch on the back that closes with a slide fastener.

The platform is tethered to the vest with a strap and can be removed by unsnapping the tether from the pouch.

8.2 Equipment platform location.

9. Stowing the Survival Egress Air (SEA) Bottle

9.1

Stow the SEA bottle in the convertable pouch on the front of the vest (reference list #6).

Insert the bottle into the elastic sleeve located inside the pocket.

9.1 Stowing the SEA bottle.

9.2

Close the bottle neck-strap around the bottle.

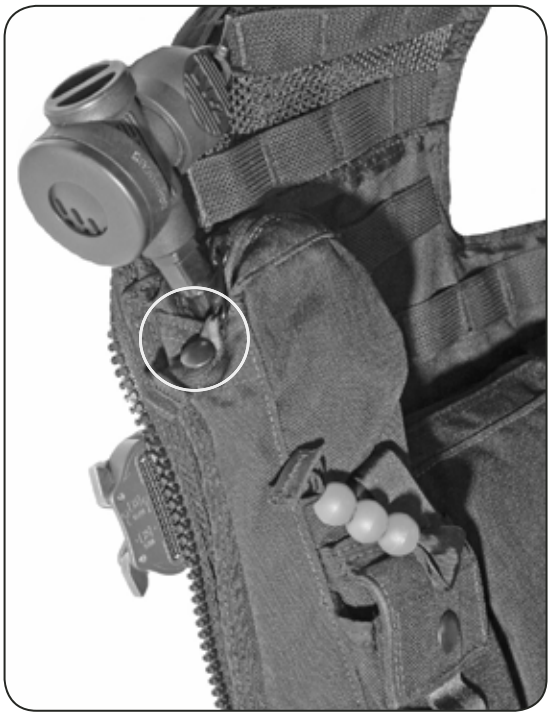
Stow the hose in the pocket with the mouthpiece outside the pocket.

9.2 Closing the bottle neck strap.

9.3

Angle the bottle so the neck exits the pocket at the corner and close the slide fastener of the pocket.

Close the snap-tab to secure the slide fastener.



9.3 Closing the pocket.

9.4

Stow the mouthpiece in the dust cap.

Attach the mouthpiece dust cap to the vest by using a cable tie or cord through a MOLLE loop.

9.4 Stowing the mouthpiece.

10. Sidearm Holster

A universal holster for a sidearm can be installed on the vest. A magazine pouch is located in front of the holster for quick and easy access.

This holster can be worn on the left or right thigh, or on the vest as a shoulder holster.

10.1

To attach the holster to the vest:

Attach the extension bar onto the metal wire bar located on the bottom right side of the vest.

Mate the extension together and attach the snap fastener.

10.1 Attaching the extension bar.

10.2

Attach the holster to the extension in the same manner as outlined in 10.1.

Wrap the thigh straps around your thigh and connect the Fastex® buckles.

10.2 Thigh holster for sidearm.

11. Maintenance

Maintenance of the TAC-AIR G2 vest consists of cleaning, service, and repair. The air crewman's responsibility for maintenance is limited to washing the vest with fresh water. Service and repairs should be completed only by an authorized service station or the manufacturer.

- Washing:

  Wash the vest if it gets heavily soiled or is submerged in salt water.

  To prepare the vest for washing:

  - Remove the flotation collar from the vest.
  - Use a toothbrush to clean dirt from the pile fastener (Velcro®) patches.
  - Open all the snaps and slide fasteners (zippers).
  - Unstow any webbing that is stowed in elastic keepers.

  Wash the vest with mild soap and fresh, warm water. Scrubbing with a soft bristle brush is acceptable.

  Thoroughly rinse the vest to remove all the soap.

  Blot the vest with a lint-free towel and hang it up to dry away from direct sunlight. Ensure that the harness webbing thoroughly dries around the hardware.

12. Inspection

It is the responsibility of the air crewman to inspect the vest before flight operations. Perform a preflight inspection prior to each flight and at intervals not to exceed 30 days. If damage is found during an inspection, the vest must be grounded until repaired.

1. Inspect the fabric and webbing for:

   - Cuts, tears, and abrasion damage
   - Open seams and loose or broken stitching
   - Contamination damage

2. Inspect the hardware for:

    - Cracks
    - Corrosion
    - Mechanical operation
    - Bent or missing parts

3. Inspect the slide fasteners for missing teeth and ease of operation.

4. Inspect the snaps for damage, corrosion, and ease of operation.

5. Check that the harness is not twisted or misrouted.

13. Storage

Store your TAC-AIR vest on a clothes hanger away from direct sunlight in a dry, well-ventilated place. Do not store your vest near sources of heat such as a radiator, or in a warm, humid environment where mold or mildew can contaminate the vest.