



**AIR ARMOR  
TECH**

# MID-LENGTH GUN CASE

## OWNER'S MANUAL





*Thank you* for choosing to purchase an Air Armor Tech™ Mid-Length Gun Case, the world's highest quality Inflatable Protective Case. The design and manufacturing of this American-made, Military-Grade gear, will assure you a lifetime of extreme performance in the field.

No protective case on the planet protects better, is tougher, carries the weight of air and collapses, like a patent pending Air Armor Tech™ product. As a Military Operator, Outdoor Adventurer, Shooter, or Hunter, Air Armor Tech™ products will exceed your expectations in extreme land, air and sea environments. For more product information, instructional videos, and LIMITED LIFETIME WARRANTY information, please visit [www.AirArmorTech.com](http://www.AirArmorTech.com).



**WARNING:**  
**ALWAYS ENSURE WEAPON IS UNLOADED AND IN A SAFE CONFIGURATION PRIOR TO WEAPON HANDLING. NEVER INSERT ANY STRAP ON OR NEAR TRIGGER, TRIGGER ASSEMBLY, OR FIRING MECHANISM.**

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## MLGC QUICK REFERENCE GUIDE

1. Lay deflated gun case out flat and locate inflation manifold pocket (designated by **red box**) and deflation cap pocket (designated by **green box**).



2. Confirm deflation cap (designated by **orange arrow**) is tightened and secure – **DO NOT CROSS THREAD**. Access oral inflation valve (designated by **red arrow** below) and ensure silver locking ring (designated by **blue arrow**) is screwed into the unlocked position (clockwise). Inflate by depressing valve against front teeth and initiating air flow into bladder until completely full. Rotate locking ring to locked position (counter-clockwise) until finger tight once inflation is complete.



3. Although not normally required, if pressure greater than lung pressure is desired, access manifold and either inflate mechanically via needle and **BLACK** rubber inflation valve (designated by **green arrow** below) — **DO NOT accidentally insert any object into the WHITE pressure relief valve** — or by holding air source against the oral inflation valve. Exercise caution when implementing alternate air sources for inflation. Excessive flow rates and pressure may exceed over-inflation valve capabilities and result in damage to the air bladder.



4. Open case and insert muzzle into the reinforced muzzle pocket with the optic in position required based on weapon/gear load so that it will be protected.



5. Compress bladder slightly by pushing the weapon into the bladder and secure with hook and loop straps.

6. Close perimeter zipper.



7. Secure and tighten all four lateral straps and wrap carry handles.



8. To use backpack straps, unzip backpack strap panel, secure backpack straps over shoulders with weapon's muzzle down.

9. To deflate, open pocket to partially or fully remove cap.



10. To roll up, secure all straps and panels. Initiate rolling on the opposite end from the deflation cap to allow air to escape while rolling.

11. Once rolled tight, secure by attaching 1" D-rings to MOLLE web with provided bungee or another suitable tether such as paracord. Expose handle for carrying ease.



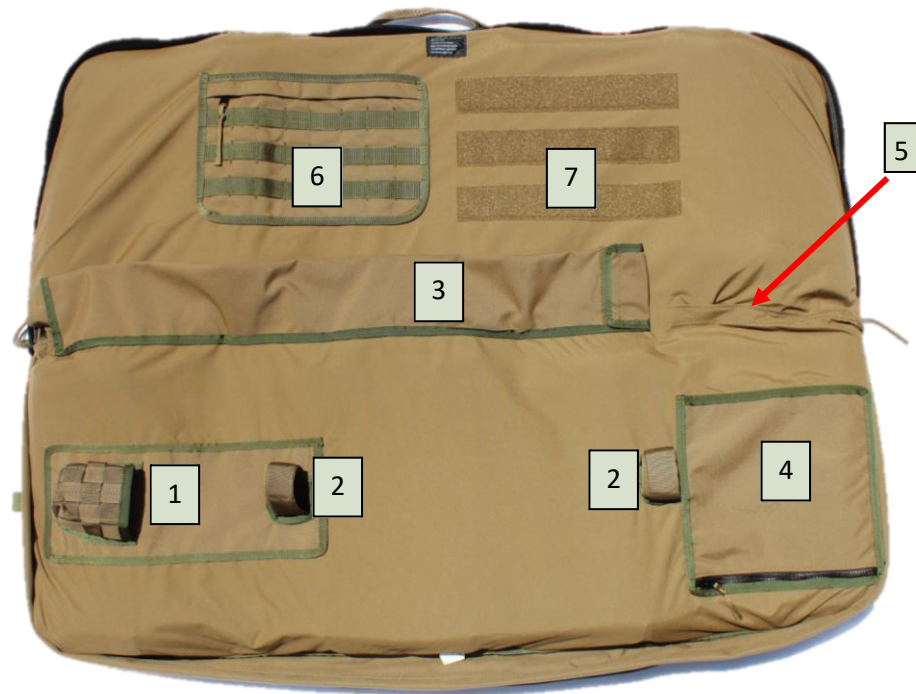


## EXTERNAL COMPONENTS



1. Water/UV resistant, 316 Stainless Steel, made in the USA, guaranteed for life, YKK™ zipper with 272 pound crosswise break strength.
2. Inflation System Pocket - Shield and Star logo on the pocket, contains inflation manifold (two inflation valves and a pressure relief valve). Used for bladder inflation.
3. Accessories Pocket - “Air Armor Tech” on the pocket.
4. Standard 1” MilSpec MOLLE webbing with zippered accessories pouch.
5. Deflation Cap Pocket - Deflation port with tethered, threaded cap. Used for bladder deflation.
6. Four (4) 1” D-Rings certified for military use.
7. Four (4) lateral straps with 1” MilSpec side release buckles.
8. Padded carrying handle.
9. Backpack system cover panel.

## INTERNAL COMPONENTS



1. Reinforced muzzle containment pocket.
2. Weapon securing straps with hook and loop attachment.
3. 32" long accessory sleeve (used for extra barrels, cleaning supplies, shooting sticks, etc.)
4. 9" x 9" zippered accessory/handgun pocket.
5. Hook and loop access point for bladder insertion/removal (runs down the length of the case behind the long accessory pocket as shown in the picture).
6. 11" x 7" zippered accessory pouch with standard 1" MilSpec MOLLE webbing.
7. Hook and loop panel for accessory attachment or morale patch placement.

## INFLATION POCKET & MANIFOLD

### Inflation System Pocket

Identified by the Air Armor Tech™ ‘Star and Shield’ logo embroidered on the outside. Once opened, you will notice the exposed three-valve inflation system manifold.

**Note:** Locking ring pictured in the unlocked position. Unscrew (counter-clockwise) to extend into the locked position if desired which prevents inflation valve depression. Should be locked when case is in use.

### Pressure Relief Valve

**NEVER INSERT INFLATION NEEDLE INTO THIS VALVE OR DAMAGE CAN OCCUR.**

This is a fully automatic valve that opens at approximately 5.35 psi to relieve pressure in the case of over inflation, either by the user or from atmospheric changes. Ensure valve port is kept clean and free of foreign debris for proper activation.

### Oral Inflation Valve

This MilSpec valve is spring loaded to the closed (extended) position. **The valve must be depressed to allow air flow.** To orally inflate, simply **depress the valve by pushing valve against the front of your teeth** and exhale into bladder. Human lung pressure provides approximately 1-1.5 psi of inflation pressure.

### Rubber Inflation Valve

A Tachikara 1060 rubber inflation valve, found in most footballs and basketballs, provides mechanical inflation via inflation needle access and can be purchased in most sporting goods stores. **Moisten inflation needle prior to inserting into the valve;** use air pump to inflate.





## INFLATING YOUR GUN CASE

**NOTE:** Always ensure the deflation cap is tightened and secure prior to inflation. Avoid cross-threading the cap as this may result in a bad seal and subsequent pressure loss.

### Oral Inflation Procedure

Gently apply pressure against the rubber “plunger” type oral inflation valve with the front teeth and exhale into the bladder until desired firmness is achieved. If additional air pressure is desired, top off with a hand operated or mechanical air pump. See inflation procedures below.

**Note:** During normal field operations, human lung pressure (approx. 1 psi) is all that is needed to adequately protect weapon and optic systems. During moderate to high risk environments, it is recommended to operate at higher bladder pressures.

### Hand Operated Mechanical Inflation Procedure

It is recommended to only use hand operated mechanical inflation sources for bladder pressure “top off” after oral inflation has been completed. **Moisten inflation needle prior to inserting into Rubber Inflation valve to prevent damage. CAUTION: NEVER TRY TO INSERT THE NEEDLE INTO THE WHITE PRESSURE RELIEF VALVE AS DAMAGE WILL OCCUR.** Gently and fully insert the needle into rubber inflation valve. Activate hand operated mechanical air source until desired bladder firmness is achieved. Once inflation is complete, **hold edges of Rubber Inflation Valve and gently remove needle.**

### Engine Driven Mechanical Air Source

**Caution: Extreme care must be taken when using engine driven air sources with high flow rates that exceed relief valve exhaust rates. The relief valve should open at approximately 5.4 psi, but if inflating with a shop compressor regulated at a moderate to high flow rate, catastrophic failure of the bladder will likely occur.**

If using a mechanical air source to inflate via the oral inflation valve:

- Hold air source against valve and depress oral inflation valve. Initiate airflow from low flow rate air source. **Be sure to intermittently check the bladder pressure and firmness to avoid over inflation.**

If using a mechanical air source to inflate via the rubber inflation valve:

- Attach inflation needle to air source. Moisten and insert needle into rubber valve. Initiate airflow from low flow rate air source. **Be sure to intermittently check the bladder pressure and firmness to avoid over inflation.**

**Note:** Nitrogen and Argon significantly reduce atmospheric expansion and contraction characteristics compared to ambient air and can be used in Air Armor Tech™ bladders. This should be considered when operating in moderate to extreme atmospheric changes such as sky diving, air travel, base jumping, wing suite flying, etc. **ALWAYS CHECK AND COMPLY WITH AIR TRAVEL RULES AND REGULATIONS.**

## INSTALLING WEAPON INTO CASE

**WARNING:**  
**ALWAYS ENSURE WEAPON IS UNLOADED AND IN A SAFE CONFIGURATION PRIOR TO WEAPON HANDLING. NEVER INSERT ANY STRAP ON OR NEAR TRIGGER, TRIGGER ASSEMBLY, OR FIRING MECHANISM.**

The Mid-Length inflatable gun case is designed to secure and protect up to a 42" Overall Length (OAL) weapon which allows the muzzle to be inserted into the reinforced muzzle pocket. However, the overall internal length of the gun case is 44" so longer weapons may be stored as well. The overall internal width is 14".

The case can either be inflated or deflated prior to weapon installation. Unzip perimeter zipper and lay weapon case down flat. Tear apart the two hook and loop straps so that they are laid out flat on the case. Insert the muzzle into the reinforced muzzle containment pocket, normally with the optic towards the carry handles of the case – this may be modified based on weapon/gear loadout. Compress bladder slightly by pushing the weapon into the bladder and wrap weapon straps around the weapon and secure with hook and loop straps.



## BACKPACK SYSTEM

Every Air Armor Tech™ Mid-Length Gun Case comes standard with a set of integral, stowable, padded backpack straps. They are located on the backside of the case in the pocket with 'Air Armor Tech' proudly embroidered.

When backpack use is needed, simply unzip the backpack system panel and remove the padded backpack straps. The backpack straps are fully adjustable and also come with a sternum strap to completely secure your loadout. The backpack system is designed to carry the weapon muzzle down.



When backpack use is not desired, simply secure tuck the straps into the pocket and secure the system by zipping the storage panel shut.





## DEFLATING YOUR GUN CASE

### Via Inflation Manifold

Deflate the gun case by depressing and holding in the oral inflation valve. This method will allow you to have precise control over how much air you want to bleed off but will take the longest if trying to completely deflate the case.

If the oral inflation valve remains stuck in the open position (valve stays depressed), simply twist or depress it by bumping it with the palm of your hand to facilitate valve reseating and ensure valve is free of foreign debris.



### Via Deflation Cap

To completely deflate and roll your Air Armor Tech™ inflatable gun case, remove the deflation cap. Close and secure all pockets with zippers, Velcro and/or buckles. Lay the case down flat with the inflation, deflation, and accessories pockets facing up and the deflation cap pocket furthest away from you. Tightly roll the case beginning from the end opposite of the deflation cap. This will allow the air to squeeze out through the deflation cap as you roll it down tight.

**Note:** Be careful not to forcefully twist or “wring” the case or bladder during deflation as bladder damage can occur.

Once rolled tight, secure the roll by attaching 1” D-rings to MOLLE web with provided bungee, paracord or any other method of your choice. Expose handle for carrying ease.

If you intend on deflating and not rolling your case, simply remove the deflation cap and apply pressure to the bladder to allow air to escape, similar to deflating an air mattress.



## ADDITIONAL NOTES & HELPFUL TIPS

### Atmospheric Influence on your AAT Product

A constant air pressure in the bladder will not sustain forever. Air Armor Tech™ testing has proven our air bladders will remain fully inflated for many months in a controlled environment. However, ambient air is largely influenced by fluctuating atmospheric conditions. Changes in temperature, barometric pressure and altitude will cause slight pressure changes to occur in the inflated bladder.

Air bladder pressure increase is caused by:

- Drop in Barometric pressure (hurricane approaching)
- Increase in temperature
- Increase in altitude or elevation
- Riding the space shuttle to outer space

Air bladder pressure decrease is caused by:

- Increase in Barometric pressure (typhoon retreating)
- Decrease in temperature
- Decrease in altitude or elevation (HALO jump)

While it is NOT necessary, if you want to keep the bladder at maximum pressure, you will occasionally have to “top off” with the hand pump or other mechanical source when some atmospheric changes occur. For example, if it is a hot summer night in the desert and the temperature drops while using your Air Armor Tech™ gun case as a mattress, the bladder pressure will slightly drop. Conversely, if you’re cruising a middle eastern summer desert in a vehicle with the A/C at max cold, when you get out of the vehicle with your weapon system protected by an inflated Air Armor Tech™ product, the bladder pressure will rise as the desert air burns your sinus cavities. Don’t worry, the automatic pressure relief valve will protect the air bladder from over-inflation, subtly hissing as it relieves pressure. Rest assured, the relief valve is fully automatic and will close by itself.

The more severe the atmospheric change, the more bladder pressure change will occur. Some typical examples of drastic atmospheric changes include: wingsuit flying, sky diving, climbing or descending to higher or lower altitudes. **A great way to significantly reduce these air bladder pressure changes is to inflate the bladder with argon or nitrogen which is readily available in stores and online.** The pressure changing characteristics of these inert gases is significantly better than ambient air. This is why aircraft tires, and many car tires, are inflated with nitrogen.

### Alternative uses for Air Armor Tech™ Inflatable Products

- Shooting mat
- Shooting bag
- Air mattress
- Pillow
- Floatation device (not USCG certified floatation device)

## CLEANING AND MINOR REPAIR OF YOUR CASE

### Cleaning Instructions

Cleaning your Air Armor Tech™ case is simple and easy. All you need is some soap and hot water. First, you'll want to deflate the bladder using the method described above in the section on 'Deflating Your Gun Case'. Then you will need to remove the bladder from the nylon shell. To do this you will first undo the carry straps, unclasp the buckles and unzip the case. Next lay the case out flat and locate the hook and loop strip running down the centerline as indicated by the red line below. Pull the hook and loop strip apart so you can see the exposed bladder.



Now you will notice two hook and loop securing tabs that are attached to the main strip (indicated above by the red boxes) which are designed to keep the bladder centered in the shell. Detach them and tuck them through the slit in the bladder they are protruding through. In the same manner, tuck each of the five weapon securing straps through their respective holes in the bladder.



Now you may completely separate the bladder from the nylon shell. Take a rag or a brush with some hot, soapy water and scrub the area you want to clean. If you are seeking a deeper clean, you may put the entire exterior nylon shell in a conventional washer and wash with mild detergent on the delicate cycle. Let the product air dry once you are done cleaning; **DO NOT PUT THE NYLON SHELL IN THE DRYER.**



## Maintenance/Repair

While it is not likely to happen, accidents do occur and your bladder may suffer a rupture due to over pressurization or a puncture from a sharp object. As intimidating as this may seem, it is not the end of the world and your bladder can be quickly repaired in the field so that you can keep protecting your weapon when it matters the most.

We have provided you with two Tear-Aid™ Type A patches which you can store in one of the accessory pouches of your case to ensure you'll always have access to them. The following are instructions taken straight from the Tear-Aid™ user's manual:

*"For best results apply to a clean, dry surface. Clean the surface to be repaired with an alcohol prep pad, or a 50/50 mixture of rubbing (isopropyl) alcohol and water. **Before proceeding make sure surface is dry, and you have the correct patch type for the kind of material you are repairing.***

*Surface temperature of the materials to be repaired should be 50°F or warmer. Do not put repaired material into a washer or dryer.*

**STEP 1:** *Cut patch to size with scissors allowing for the patch size to extend 1 inch beyond all edges of the tear. If using more than one patch, allow for patch sizes to overlap at least 1 inch. Trim square corners into rounded corners.*

**STEP 2:** *Carefully peel back ½ inch of paper liner. Tearing the paper liner while stretching the edge of the patch will help to separate the liner from the patch - especially when the patch has been cut into smaller sizes.*

**STEP 3:** *Position and anchor exposed ½ inch edge – allowing the patch to extend 1 inch beyond all edges of the tear. Slowly peel back the liner while carefully applying the patch over the tear – take care to avoid air bubbles. Rub all edges to seal. Rub entire patch aggressively. Follow Steps 1-3 on the back side of the repair if you have access to the back side. Repair is complete.*

**IMPORTANT:** *The Type A Patch is at approximately 90% adhesion upon initial application and 100% adhesion after one (1) hour."*

Once the patch is firmly in place, inflate the bladder per the standard inflation procedures. If you intend to inflate to pressures higher than 1 psi, it is recommended you wait one hour for 100% adhesion, as prescribed in the instructions above, for best results. Immediate inflation at or below 1 psi is acceptable. Now you are ready to go!

## TECHNICAL SPECIFICATIONS & TROUBLESHOOTING

### Product Specifications

Total Internal Length: 44” (42” if muzzle inserted into containment pocket)

Total Internal Width: 14”

Empty Weight: 7 lb

Outer Shell Material: 1000D, Urethane-coated, Cordura fabric

Inner Shell Material: 500D, Urethane-coated, Cordura fabric

Bladder Material: 200D Nylon Laminate

Zippers: YKK™ 316 Stainless Steel; water-resistant; 272 lb crosswise break strength

Manifold: Thermoplastic Polyurethane Elastomer

### Troubleshooting Tips

*My gun case won't hold air; what's wrong with it?*

Check to make sure the deflation cap is secured tightly prior to inflation. Once inflated, ensure the locking ring on the oral inflation valve is in the locked position.

*Once inflated with air, my gun case won't zip up or is very hard to zip up. Is that normal?*

Yes, your Air Armor Tech™ case should be tight when zipping up; this is just a product of the pressurized bladder, ensuring that the contents are safe and secure.

*The rubber inflation valve popped out during the inflation process; can I fix it?*

Yes, simply push the conical end of the valve down into the manifold to seat it.

*I accidentally inserted the inflation needle into the overpressure valve; what do I do?*

Call Air Armor Tech™ at (817) 487-3837.

*If using an air compressor to inflate my gun case, what should I set the outlet pressure at?*

We have found that 40 psi or less at the outlet is safe for inflation of the case. Anything higher, you will run the risk of damaging the bladder.

## WARRANTY INFORMATION

If you need help or don't understand how a product or component is supposed to work, please do not hesitate to contact us. We'll be glad to spend the time necessary to solve your problem. You may also find our website helpful, which includes "how to" pictures and videos. The owners and employees of Air Armor Tech™ share a common goal, which is providing very high-quality, American-made products to fit the needs of our customers. We stand behind this goal and are dedicated to ensuring customer satisfaction.

### **30-Day Money-Back Guarantee**

If your Air Armor Tech product is not everything we promised, return it to us for a full refund on the cost of purchase, no questions asked. We make this bold guarantee because we are so confident that you will be more than satisfied with not only the performance of the air protection, but also with the design and workmanship of the product itself.

### **Limited Lifetime Warranty**

Air Armor Tech, LLC (Air Armor Tech) limited lifetime warranty is provided at no cost to the original purchaser and covers any defects in workmanship, with the exceptions stated below, for the lifetime of the product. Lifetime means the market life of the warranted product. As long as the warranted product is in production at Air Armor Tech, LLC, and replacement parts remain available, the product is covered.

### **Specific Provisions and Exclusions**

This warranty does not cover aesthetic changes (changes in the product's appearance) due to outdoor exposure and normal use. This warranty does not cover products that have been physically altered, damaged, or subjected to negligence. This warranty does not cover the air bladder, which Air Armor Tech warrants against defects in materials and workmanship for a period of five (5) years from the invoice date. This warranty does not cover components of the inflation system, which include the following: pressure relief valve, oral inflation valve, and inflation system housing which contains and secures the inflation valves, hardware (such as dividers, handles, wheels, buckles, zippers, or fasteners), which Air Armor Tech warrants against defects in materials and workmanship for a period of one (1) year from the invoice date. This warranty does not cover the rubber inflation system valve, which is very easy to replace by the consumer (see rubber valve replacement procedures at [www.airarmortech.com](http://www.airarmortech.com)).

### **To the Extent Permitted by Law**

Air Armor Tech is not liable for indirect, punitive, incidental, consequential, or special damages, regardless of whether a claim for such damages is based on this warranty, and the remedies outlined in this warranty are the exclusive and sole remedy of the original purchaser, and this warranty is in lieu of all warranties, express or implied, including, but not limited to, any implied warranties of merchantability and fitness for a particular purpose, and Air Armor Tech's liability to the original purchaser for damages shall not exceed the purchase price of the product against which damages are claimed.



### **Warranty Claim Procedure**

Before filing a warranty claim with Air Armor Tech, please try to contact Air Armor Tech at [info@airarmortech.com](mailto:info@airarmortech.com) or by phone at (817) 487-3837. In many cases this will lead to faster resolution than a formal claim. Any warranty claims must be made by the original purchaser within the timeframe of the warranty. Products require a copy of the original purchase receipt from Air Armor Tech.

Warranty claim requests must include the model number and a complete description of the defect. Where possible, images of the defect should be included. To make a warranty claim, the purchaser must contact Air Armor Tech, Attn: Customer Support, 118 Metrotex Dr., Suite 8, Haslet, TX, 76052, in writing, or by using the Air Armor Tech website Contact Us form (<http://airarmortech.com/contact-us/>), by email ([info@airarmortech.com](mailto:info@airarmortech.com)), or by telephone (817) 487-3837.

The original purchaser must obtain a Return Authorization (RA) number from Air Armor Tech Customer Support prior to returning any product. The RA number must be included with any returned product. Product(s) returned must be cleaned. Product(s) returned must be free of personal items. Personal items found in the product or return packaging will not be returned, and may be cause for rejection of the claim. The original purchaser is responsible for paying freight costs to Air Armor Tech. If Air Armor Tech determines any returned product is not defective within the terms of this warranty, the purchaser agrees to pay Air Armor Tech all handling, return freight and approved repair costs at Air Armor Tech's prevailing rates

A large shield logo with a star inside, positioned above the main title.

# AIR ARMOR TECH

## CONTACT US

If you have any questions or comments, please contact Air Armor Tech™ at the following:

info@airarmortech.com  
(817) 487-3837

For more product information, instructional videos, and LIMITED LIFETIME WARRANTY information, please visit

<https://airarmortech.com/>.

**The ruggedness of a hard case with the portability of a soft case; that's the advantage of AIR.**



*Made in America*

A Veteran Owned Company