



ARMOTECH WG47 MANUAL

– powered by Warsensor



ARMOTECH and WARSENSOR are trademarks owned by AI-MOK Paintball Ltd.;

All ARMOTECH and WARSENSOR products are manufactured by ARMOTECH Taiwan Co., Ltd. only.

© 2004 - 2005 AI-MOK Paintball Ltd. All rights reserved

SAFETY FIRST!



WARNING

WARSENSOR PAINTBALL MARKERS ARE NOT A TOY. ANY MISUSE MAY CAUSE SERIOUS INJURY OR DEATH. THE USER AND ANY PERSON WITHIN RANGE MUST WEAR EYE PROTECTION DESIGNED FOR PAINTBALL USE. READ THIS OWNERS'S MANUAL COMPLETELY BEFORE LOADING, PRESSURIZING, OR OPERATING YOUR WARSENSOR PAINTBALL MARKER.

- Always wear protective goggles & headgear designed for paintball when shooting this marker
- Everyone within range of an area where this paintball marker is used should wear protective goggles and headgear specifically designed for paintball
- Operate this paintball marker only in areas where it is safe and lawful to do so
- Misuse of this marker may result in criminal charges or imprisonment
- This marker is intended for sale to adults. Adult supervision is recommended at all times whenever a minor is handling this marker
- **READ THIS OWNER'S MANUAL COMPLETELY BEFORE LOADING, PRESSURIZING, OR OPERATING THE WARSENSOR MARS SERIES PAINTBALL MARKER!**
- Never aim or shoot this paintball marker towards anybody who is not wearing protective goggles or headgear specifically designed for paintball
- During game play, follow referee's instructions and all field safety rules. Avoid shooting at another player's head, neck or groin area
- Play paintball only where the rules of safety for paintball are followed
- All paintball markers must be chronographed regularly. Adjust the marker to shoot paintballs at a velocity this is 300feet per second (fps) or less and that does not exceed the velocity limit set by the Paintball Park or field where the marker is in use. Chronograph the marker at regular intervals during the day, as well as any time the power source is refilled or changed, any time the barrel or any part of the power system is changed, and upon request of any player or game official
- This paintball marker operates using compressed gas or air at specified pressure ranges. Follow safety procedures when handling compressed gas or air. All filling of compressed gas or air cylinders must be done by qualified persons



- Follow the rules of safe marker handling: keep finger off the trigger until ready to shoot. Keep muzzle pointed in a safe direction. In addition, firmly insert a barrel plug into the muzzle and push the mechanical or electronic safety to “ON” or “SAFE” when the marker is not in use and when in any non-shooting area
- Never shoot at domestic animals or wildlife
- Never mark objects outside the confines of the game or authorized shooting areas
- Never look down the barrel of a marker
- Before disassembly, storage, or transport of this marker, remove ALL paintballs from the marker, barrel, and loader: remove power source: and remove all gas or air from the power system. Insert a barrel plug and put the safety “ON”
- Carry your marker in a case or sturdy bag when transporting it in public
- Safely and securely store marker to prevent access to it by unauthorized persons or minors.



Welcome to Armotech. The Armotech line of scenario paintball markers are designed to extremely high quality standards because we realize that only the best will do. Our markers all undergo extensive testing, prototyping and are constantly improved based on customer feedback. Why? Simply because Armotech wants to bring you the Newest Innovations in Scenario Paintball Markers.

Always exercise caution when handling a paintball marker.

Remember this is not a toy. Misuse of this product can cause physical harm.

Protective eyewear – made specifically for paintball should always be used when operating the marker.

Adult supervision should be exercised when minors are operating the marker.

INSTALL THE FIXED STOCK



Remove the strip pin to release the stock base.



Tighten the fixed stock by using the 4 screws found in spare parts kit. **Do not over tighten the screws.**

(WG47 comes with the stock detached)

VELOCITY ADJUSTMENT



Use wrench to adjust the velocity:
Clockwise – raise the velocity
Counter Clockwise – reduce the velocity

NOTE: Do not cock and fire the marker prior to performing initial lubrication of internal bolt and striker o-rings. Some dealers perform this task for you prior to delivery as an added service. However, the marker is shipped w/o internals lubed.

CLEANING INSIDE



To remove the internals turn the plug counter clockwise.



Pull out the bolt, hammer, and spring. (Carefully remove the striker spring guide, striker spring and the circular spring buffer. You may have to use the end of a flat screwdriver or other blunt object to aid in removing the circular rubber buffer section of the internals.)

Once the internals are out – note their assembly orientation. Also note the lubrication points as illustrated. These should all be properly lubricated using either 3-in-1 gun oil, paintball marker lubricant, Teflon grease, or Silicon grease – whichever is most readily available to you.

Bottle o-rings fit perfect on both bolt and striker.

Do not be afraid to lubricate these parts.

Do not use excessive lube or thick lube – this may create a resistance effect and inhibit marker recocking.

Sometimes o-rings may look good to the naked eye, but can be damaged.

If the urethane orings on the bolt are discolored – change them.

RELEASE THE BARREL



Remove the muzzle first.



Pull off the parts.



Turn the barrel counter clockwise to remove. The barrel and fore grip remove as one piece.



The barrel and fore grip move TOGETHER, DO NOT remove the grip from barrel.

COCKING



Push the Safe switch to firing position.



Firing position.
(Gun can be cocked only at this position)



Pull COCKING HANDLE backward to cock the gun.

The power system used on the Armotech WG47 Marker contains compressed gas or air. NEVER work on, disassemble the marker with the compressed air source connected. The marker has a volumizer chamber which will retain air pressure. Please ensure your air source is properly turned off, and the marker is cleared of all compression before disassembly. If working with CO2 avoid CO2 gas or escaping liquid to contact the skin – it can cause freezer burn. Always ensure your power source bottle is firmly screwed in to avoid accidental release which could cause bodily harm.



The standard option for players who prefer to play without a remote is to attach the bottom line adapter onto the marker- It comes complete with the necessary adapter to snap on to the quick release nipple, and the screws to fasten it to the bottom of the trigger frame.

With this option installed as standard configuration, you can screw the compressed gas/air power source directly on to the marker...or use a remote line with screw in ASA nipple

The WG47 is capable of operating at input pressures ranging from 350psi to 1200psi. It is not recommended to operate the marker below or beyond these limits as this will severely hamper the performance and could damage the marker.

SAFETY RULES FOR HANDLING COMPRESSED AIR OR GAS MUST BE FOLLOWED AT ALL TIMES!

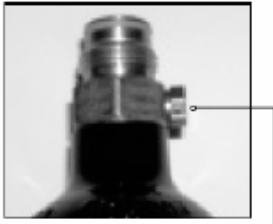


Figure 5 Safety burst disk.

Never leave a pressurized marker or air source in direct sunlight – in particular if using CO2 as an air source. Excessive heat can cause internal pressures to build beyond safe levels and could cause safety burst disks to rupture if the bottle is sitting erect.

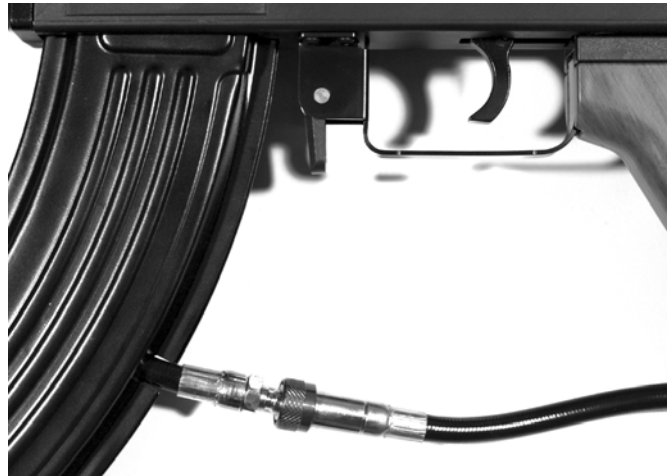
If the bottle is lying on its side – the excessive pressure could cause a burst which could damage the marker, or the air bottles valve system.

Cylinder valve (the copper neck on the air bottle) should be firmly, and fully connected to the air bottle. Make a mark on your bottle and inspect this regularly to see if it has moved.

A loose cylinder valve under pressure can be extremely dangerous – the air bottle would become a high speed projectile which could cause serious damage or death.

During filling, if any leaks are detected, immediately stop the filling process and examine the power source for the location of the leak. If it is leaking from the fill adapter’s ASA it could be that the o-ring on the bottle is worn and needs replacement –bleed off ALL excess pressure, remove bottle, change o-ring and resume filling.

If the leak is coming from the connection between the Cylinder valve and the bottle body – cease filling, use a hard tool such as a screwdriver or other item to depress the pin valve and release ALL pressure from the bottle . If you have an on/off valve open it to release the pressure. Have the bottle inspected by a US – DOT certified air-smith or compressed air specialist to get it repaired. DO NOT ATTEMPT TO REPAIR THE BOTTLE YOURSELF!



After you have connected the remote line to the ASA Cylinder valve head of your power source. **DO NOT ACTIVATE THE AIR SOURCE.** First connect the quick release portion of the remote line to the nipple on the marker. Ensure that it snap-locks into place. Only after you have done this should you consider activating the air source we will get to that in just a bit, for now, let's just make certain the air source is properly setup and connected to the WG47.

If you are depressuring the marker – first turn off the remote line air source at the bottle – then fire the marker a few times to deplete any excess compressed gas/air before removing the quick release.



Using the bottom line setup is just as simple. Your air source can screw directly into the optional bottom line attachment once properly affixed to the marker.

NOTE – if your air source does not have an on/off valve, please remember to hold marker upside down, while slowly unscrewing the bottle, and firing the marker at the same time to release pressure buildup. At a certain point the pin-valve will disengage allowing you to

Line up your air source and with a clockwise motion, screw the bottle onto the ASA until you

get a tight fit and the bottle STOPS.
For bottles with an on/off valve – ensure it is OFF when doing this. If the bottle is pin-valve driven, remember to COCK the marker first. Screwing on a pin-valve driven bottle will immediately engage the compressed gas/air and ready the marker.

totally de-pressure the marker and making removal of the bottle both easier and SAFE!
Holding the marker upside down, ensures that no paintballs can enter the breach accidentally (in particular if using a gravity hopper)



Once your air source is properly installed, if you haven't already done so, COCK THE MARKER by pulling back on the top rear cocking handle as illustrated. At this point you may activate the air source (unless it is a directly screwed on pin-valve driven bottle on the bottomline ASA).

YOUR MARKER IS NOW COCKED AND READY FOR FIRING. Please observe all necessary safety precautions when firing the marker.

To fire the marker – depress the trigger safety to the DOWN. The safety is now OFF. This puts the trigger in active mode and makes the marker ready-to-fire.

DRY FIRE the marker a few times to get used to the feel of the trigger, and the marker under pressure. Practice firing the marker with air on –observe the reaction of the marker. Turn your air source OFF (either by the on/off valve of the remote, bottle, or by slightly unscrewing the bottle from the ASA bottomline, and fire the marker a few times to familiarize yourself with the entire process of running out of power on the marker – see how it reacts. Practice proper removal of the air source a few times.



Warranty Information

LIMITED 1 YEAR WARRANTY

This product is warranted to the retail consumer for one year from date of retail purchase against defects in material and workmanship and is transferable. To register the serial number of your paintball marker, please return the Product Registration form found in your owner's manual packet. The warranty is not conditioned on the return of the card.

WHAT IS COVERED

Replacement parts and labor. Transportation charges to consumer for repaired product.

WHAT IS NOT COVERED

Transportation charges to ARMOTECH for defective product. Damages caused by abuse or failure to perform normal maintenance. (See Step 9) Any other expense. CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, OR INCIDENTAL EXPENSES, INCLUDING DAMAGE TO PROPERTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

WARRANTY CLAIMS

USA customers: Attach your name, address, description of problem, phone number and copy of sales receipt to product. Package and return to Armotech. International Customers: Please return product to your nearest distributor. If you do not know your distributor, please call 1-856-753-2662 and ask for our International Department for assistance.

IMPLIED WARRANTIES

ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF RETAIL PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. To the extent any provision of this warranty is prohibited by federal, state, or municipal law which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.



SUGGESTED UPGRADE KITS

16" Hop-UP Barrel

Sight Rail

Sight Mount

Barrel Extension

WS Red Dot

WS Scope

WS RD Scope

Warsensor Laser Kits