



**UNIT
SOLUTIONS**
TACTICAL TRAINING SYSTEMS

UNIT9[®] TRAINING SYSTEM

OPERATOR'S MANUAL

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▲ WARNING THIS TRAINING PISTOL CAN CAUSE SERIOUS INJURY OR DEATH. TREAT IT WITH THE SAME RESPECT YOU WOULD A FIREARM. READ AND FOLLOW THIS OPERATOR'S MANUAL CAREFULLY. DO NOT LOAD A PROJECTILE INTO THE TRAINING PISTOL UNTIL YOU ARE READY TO SHOOT. IF YOU DO LOAD A PROJECTILE AND THEN DECIDE NOT TO SHOOT, REMOVE IT EITHER MANUALLY OR BY SHOOTING THE PROJECTILE AT A SAFE TARGET. THE SAFEST CONDITION OF THIS TRAINING PISTOL IS UNLOADED. PLEASE HANDLE SAFELY.

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1 INTRODUCTION

1.1 ABOUT UNIT SOLUTIONS

UNIT Solutions, Inc. [“UNIT Solutions”] is dedicated to being the pre-eminent non-lethal training solution for civilians, law enforcement, and military worldwide. Based on direct feedback from our customers, we have engineered a solution to provide the best training system on the market for force-on-force and decision-making training.

Founded in 2016, our staff has spent the past several years researching the existing training systems on the market and identifying the inherent challenges with using each. Feedback from administrators and end users convinced us that our service members and officers needed a better training system. While drop-in bolt systems have a lot to offer, they aren't always best solution for every training scenario. Airsoft and paintball lacked the durability and realism required for training. Laser systems provided limited feedback. Thus, UNIT Solutions was born.

UNIT Solutions proudly works with the veteran community who have served our country both at home and abroad. We believe the best way to ensure that the highest product standards are upheld for our training systems is to work with those who have used them on a daily basis whether at home, on the range, on patrol, or on the battlefield.

1.2 ABOUT THIS MANUAL

This UNIT Solutions manual describes the UNIT9 training system, the system's unique characteristics, functionality, maintenance, detailed disassembly/reassembly, troubleshooting strategies, and provides complete illustrated parts lists.

This manual is built to support UNIT Solutions' operator's training and serve as a guide to normal routine maintenance of the UNIT9 training system.

The most up-to-date version of this manual is available at

2 SAFETY

▲WARNING THE UNIT9 TRAINING SYSTEM IS NOT A TOY. TREAT IT WITH THE SAME RESPECT YOU WOULD A FIREARM. ALWAYS CAREFULLY FOLLOW THE SAFETY DIRECTIONS FOUND IN THIS OPERATOR'S MANUAL AND KEEP THE MANUAL IN A SAFE PLACE FOR FUTURE USE. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY OR DEATH.

▲WARNING INTENDED FOR ADULT USE ONLY. KEEP OUT OF REACH OF CHILDREN.

▲WARNING DO NOT BRANDISH OR DISPLAY THE UNIT9 TRAINING SYSTEM IN PUBLIC. IT MAY BE CONFUSING TO PEOPLE AND MAY BE A CRIME. POLICE AND OTHERS MAY THINK IT IS A FIREARM. DO NOT CHANGE THE COLORATION AND MARKINGS TO MAKE IT LOOK MORE LIKE A FIREARM. THAT IS DANGEROUS AND MAY BE A CRIME. IT IS THE USER'S RESPONSIBILITY TO CONFORM WITH AND FOLLOW ALL LAWS GOVERNING THE USE AND OWNERSHIP OF THE UNIT9 TRAINING SYSTEM.

2.1 WARNINGS, SAFETY CONSIDERATIONS, & RULES FOR SAFE SYSTEM HANDLING

To safely and properly handle the UNIT9 training system, you must understand that injury or death to you or others may result from unsafe or careless use. Keep in mind that while the general rules of safe gun handling always apply, circumstances or conditions may exist that require additional precautions to be taken. Safe use of the UNIT9 is your personal responsibility. Failure to follow these basic safety rules may result in unintended discharge of the system and/or serious personal injury or death to you or others.

If you feel uncertain about any operational aspects of your UNIT9 training system, please contact UNIT Solutions at 844-488-8648 before proceeding with its operation.

- TREAT EVERY UNIT9 PRODUCT AS IF IT WERE LOADED.
- YOU AND OTHERS WITH YOU MUST ALWAYS WEAR SHOOTING GLASSES TO PROTECT YOUR EYES. PRESCRIPTION EYEGLASSES MUST BE IMPACT RESISTANCE RATED OR SAFETY GLASSES INTENDED FOR USE OVER PRESCRIPTION EYEWARE MUST BE WORN.
- Buyer and user have the duty to obey all laws about the use and ownership of this product.
- Never modify or alter your UNIT9 training system as this may cause malfunctions, make the system unsafe, and void the warranty. This includes, but is not limited to, coloring or painting any part of the UNIT9 training system.
- When conducting force-on-force training with the UNIT9 training system, always wear appropriate personal protective equipment (PPE) including, but not limited to, safety glasses, and covering for the mouth, face, ears, exposed skin, and any other sensitive areas.
- Each person with firing range should wear appropriate PPE including, but not limited to, safety glasses, covering for the mouth, face, ears, exposed skin, and any other sensitive areas.
- The information in this manual is provided for product operation and safety only and does not constitute medical, legal, or training advice. You are solely responsible for implementing appropriate training protocols, supervision, personal protective equipment, range safety procedures, and emergency medical preparedness for all training evolutions.
- When conducting marksmanship training or static firing with the UNIT9 training system, always adhere to the best practices of safe handling as outlined in this manual.
- Never use drugs or alcohol while handling this product.
- Always keep the muzzle pointed in a safe direction.
- Never point the UNIT9 at anyone or anything you do not intend to shoot regardless of whether or not it is loaded. This is particularly important when loading, unloading, or field stripping the training pistol.
- Always control the direction of the UNIT9.

- Always keep fingers away from the trigger until you are ready to shoot.
- Only load the UNIT9 training pistol when ready to fire.
- Never place your finger inside the trigger guard or on the trigger unless you intend to fire.
- Only shoot the UNIT9 when you are sure of your target and backstop.
- Do not shoot the UNIT9 if unsure where the round will travel if the backstop is penetrated.
- Never rely on a mechanical safety as a replacement or substitute for safe gun handling.
- Practice inserting and removing the magazines into the UNIT9, even if you have handled similar systems before.
- Always keep the barrel free of obstructions, dirt, mud, sand and other debris.
- If you suspect that the barrel of the UNIT9 may be obstructed, unload the training pistol, examine the bore, remove any obstruction, and clean before reloading and shooting the system.
- To avoid an accidental discharge, always keep the chamber empty until ready to fire.
- The UNIT9 is only unloaded when the magazine is removed and the chamber, magazine well, and breech have been confirmed clear and empty.
- When handing or transferring the UNIT9 to another person or accepting the UNIT9 from another person, ALWAYS first inspect the training pistol. Lock the slide to the rear and inspect the chamber, magazine well, and bolt face to verify that the training pistol is unloaded.
- Always remove magazine and clear the UNIT9 before cleaning.
- Be sure all accessories are compatible with, and do not interfere with safe operation of, the UNIT9.
- There is no way to predict which direction rounds will travel or ricochet when fired at flat ground surfaces or water. When present, always fire directly into a sufficient backstop.
- Always be certain of what is behind your target. Make sure your target does not conceal a person or some object which could be harmed. Do not shoot at targets which allow ricochets or deflections.

- When not in use, the UNIT9 should always be kept unloaded and stored in a secure area.
- When servicing the UNIT9, only use authorized Unit Solutions approved replacement parts. Failure to use authorized replacement parts will void your product warranty.
- You may not remove, deface, or obscure any proprietary notices, serial numbers, or markings on the UNIT9 System, packaging, or documentation.
- Any disassembly, modification, or analysis of the Unit9 System beyond the procedures expressly described and authorized in this manual is prohibited and may violate Unit Solutions' intellectual property rights and void your product warranty.
- Altering or removing UNIT Solutions' proprietary markings, logos, or coloration may infringe UNIT Solutions' intellectual property rights and void your product warranty.
- When storing, do not encase the UNIT9 in anything that will attract or hold moisture, such as leather or heavy cloth. Also, do not store the training pistol with anything inserted in the barrel that can contribute to moisture accumulation.
- If the UNIT9 is to be stored for an extended period, the bore, the chamber, and internal working mechanism should be oiled with a high quality lubricating oil or preservative. The external working mechanisms, slide, and barrel should be coated with Cleaner, Lubricant, Protectant (CLP). Be sure to clean your UNIT9 before using it again.

2.2 BEWARE OF DANGEROUS CONDITIONS

- If there is water or any other substance or obstruction in the barrel, do not attempt to shoot the UNIT9. It could malfunction, causing damage to you, those around you, or the product.
- If a noticeable difference in sound, recoil or cycle time is experienced, stop firing. Any of these conditions could indicate an obstruction is present.
- When the slide is locked to the rear, a projectile could be chambered if the UNIT9 is dropped or jarred with a loaded magazine in place.

2.3 LIMITATION ON LIABILITY; INDEMNITY

BY USING THE UNIT9 TRAINING SYSTEM, YOU (ON BEHALF OF YOURSELF AND ANYONE ELSE WHO USES THE SYSTEM) ACKNOWLEDGE AND AGREE THAT USE OF THE SYSTEM INVOLVES INHERENT RISKS AND DANGERS OF SERIOUS BODILY INJURY, INCLUDING PERMANENT DISABILITY, PARALYSIS, AND DEATH ("RISKS"). YOU FULLY ACCEPT AND ASSUME ALL SUCH RISKS AND ALL RESPONSIBILITY FOR LOSSES, COSTS, AND DAMAGES INCURRED AS A RESULT OF YOUR OR THEIR USE OF THE SYSTEM. TO THE FULLEST EXTENT PERMITTED BY LAW, UNIT SOLUTIONS INC. WILL NOT BE RESPONSIBLE FOR ANY PERSONAL INJURY, DEATH OR PROPERTY DAMAGE THAT RESULTS FROM: (1) THE CRIMINAL, NEGLIGENT, OR MIS-USE OF THIS unit9 SYSTEM; (2) A DISREGARD OF THE SAFETY INSTRUCTIONS AND WARNINGS IN THIS MANUAL; (3) IMPROPER OR CARELESS HANDLING OF THIS UNIT9 SYSTEM; (4) ANY PROJECTILES OR CO2 CARTRIDGES NOT AUTHORIZED BY UNIT SOLUTIONS; OR (5) IMPROPER OR NEGLIGENT MODIFICATIONS OR REPAIRS TO THE UNIT9 SYSTEM BY ANY PARTY OTHER THAN UNIT SOLUTIONS. YOU AGREE TO DEFEND, INDEMNIFY, AND HOLD HARMLESS UNIT SOLUTIONS INC., ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND AFFILIATES FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, LIABILITIES, DAMAGES, LOSSES, COSTS, AND EXPENSES (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES) ARISING FROM OR RELATED TO YOUR PURCHASE, USE, OR MISUSE OF THE UNIT9 SYSTEM, EXCEPT WHERE SUCH CLAIMS ARE THE DIRECT AND SOLE RESULT OF A DEFECT IN THE DESIGN, WORKMANSHIP, OR MATERIALS OF THE UNIT9 SYSTEM.

3 UNIT9[®] CHARACTERISTICS

3.1 UNIT9[®] TRAINING SYSTEM



The UNIT9 is a mil-spec, standalone, pistol training system that uses CO₂ to fire 8mm non-lethal projectiles. The UNIT9 training pistol is magazine fed and utilizes UNIT Solutions' patented magazine to feed projectiles into the training pistol.

The UNIT9 is designed specifically to function with UNIT Solutions' marking and non-marking 8mm projectiles.

The training pistol is manufactured with a military grade polymer and steel components by UNIT Solutions, Inc.

3.2 OPERATING THE TRIGGER SAFETY

⚠WARNING THIS TRAINING PISTOL DOES NOT FEATURE A CONVENTIONAL MANUAL SAFETY AND IT WILL FIRE IF THE TRIGGER IS PULLED WITH A LOADED MAGAZINE INSERTED. THIS TRAINING PISTOL SHOULD BE CONSIDERED LOADED UNTIL THE MAGAZINE IS REMOVED AND THE CO2 CYLINDER HAS BEEN DEGASSED.

The trigger safety on the UNIT9 Training Pistol is automatically depressed when pulling the trigger as normal, when intending to fire the system. The trigger can not move to the rear without the deliberate action of pulling the trigger.



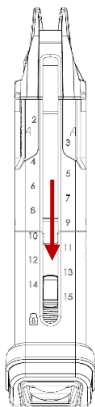
SAFE



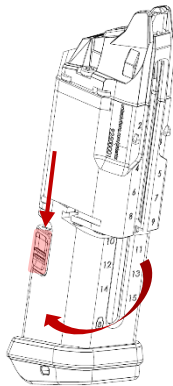
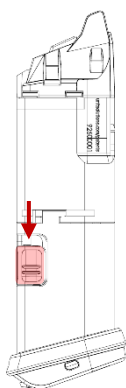
FIRE

3.3 INSTALLATION AND REMOVAL OF CO2 CYLINDERS AND PROJECTILES

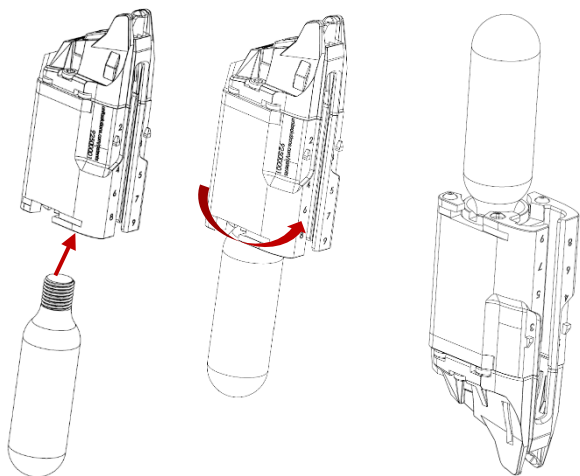
CAUTION ALWAYS KEEP HANDS AND FACE AWAY FROM ESCAPING CO2 GAS WHEN INSTALLING AND REMOVING A CO2 CYLINDER. ESCAPING CO2 GAS IS EXTREMELY COLD AND CAN CAUSE FROSTBITE IF ALLOWED TO COME INTO CONTACT WITH SKIN. ALWAYS MAKE SURE THAT THE CO2 CYLINDER IS EMPTY BEFORE ATTEMPTING TO REMOVE IT FROM THE MAGAZINE. EMPTY THE CO2 CYLINDER BY POINTING THE TOP OF THE MAGAZINE IN A SAFE DIRECTION AND DEPRESS THE POPPET BUTTON AT THE TOP REAR OF THE MAGAZINE UNTIL YOU NO LONGER HEAR THE ESCAPE OF CO2 GAS.



STEP 1
Depress and lock
follower to the
bottom



STEP 2
Pull and hold the magazine
lock tab down, and rotate the
bottom half of the magazine
counterclockwise

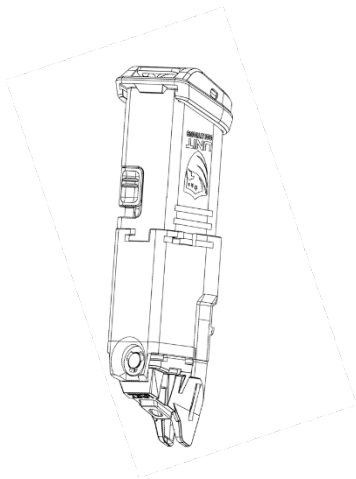


STEP 3

Insert new CO2 cylinder into bottom of top half of magazine and quickly thread the cylinder into the opening clockwise, minimizing escaping gas once pierced.

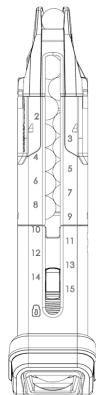
STEP 4

Orient the top half of the magazine such that the projectile loading channel is facing upright, as indicated by the figure. Fill rounds carefully while ensuring that the round stack up is alternating without gaps. When loaded properly, the 16th round will sit proud of the projectile loading channel, and it should be removed before proceeding to the next step.



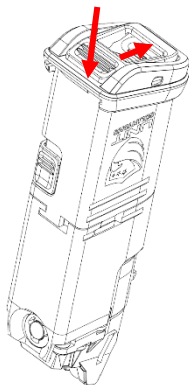
STEP 5

Reinstall the bottom half of the magazine by sliding over the CO2 cylinder for alignment, and turn the top half clockwise to engage the locking detents and lock tab.



STEP 6

Ensure that round stack is staggered as shown.



STEP 7

Depress the follower guard as shown in the diagram, which functions as a secondary lock for follower lockout. With the guard depressed, press the follower tab in the orientation indicated to release the follower. This creates tension in the spring stack. The magazine is now ready to be used.

CAUTION ONLY USE NEW 8 MM MARKING OR NON-MARKING PROJECTILES. DO NOT ATTEMPT TO REUSE ROUNDS THAT HAVE BEEN FIRED, ARE DAMAGED, OR APPEAR DEFORMED. USING ROUNDS OTHER THAN APPROVED 8 MM MARKING OR NON-MARKING ROUNDS MAY DAMAGE THE TRAINING PISTOL OR CAUSE INJURY TO YOU OR SOMEONE ELSE. USE OF ANY ROUNDS OTHER THAN THE APPROVED 8 MM MARKING OR NON-MARKING ROUNDS WILL VOID THE WARRANTY.

3.4 USE AND HANDLING OF CO₂ CYLINDERS

▲WARNING USE ONLY APPROVED UNIT SOLUTIONS 8 GRAM CO₂ CYLINDERS. ANY ATTEMPT TO USE UNAUTHORIZED GAS CYLINDERS OR CAPSULES IS EXTREMELY DANGEROUS AND COULD RESULT IN SERIOUS INJURY OR DEATH. USE OF GAS OTHER THAN CO₂ COULD DAMAGE THE TRAINING PISTOL.

▲WARNING CO₂ CYLINDERS MAY RUPTURE OR EXPLODE AT TEMPERATURES ABOVE 122°F. DO NOT DAMAGE OR ATTEMPT TO BURN CO₂ CYLINDERS. DO NOT EXPOSE CYLINDERS TO HIGH HEAT OR STORE THEM AT OR ABOVE 122°F.

Certain conditions can impact the function and performance of CO₂ cylinders. This includes the temperature in which the cylinders are stored, maintained, or used, specifically those that are outside of the range of 60°-80°F.

High temperatures can elevate the pressure inside both the CO₂ cylinder and the training pistol, potentially exceeding safe operating limits. Such excessive pressure risks causing the pistol to malfunction or suffer irreversible damage. The maximum recommended temperature for storage or operation is 122°F, a level that can quickly be reached by leaving the pistol in direct sunlight on a clear day. To preserve reliable performance, always avoid prolonged exposure to extreme heat or direct sunlight. If these precautions are ignored, the CO₂ cylinder may overheat and rupture explosively, which could destroy the pistol and result in serious injury or death to anyone nearby.

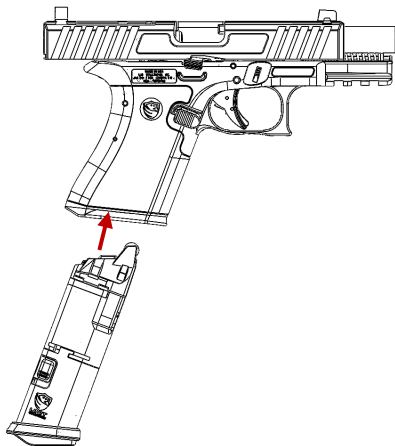
Rapid, successive firing can cause a drop in temperature within both the training pistol and the CO₂ cylinder. This cooling effect may reduce projectile velocities and, in extreme cases, lower gas pressure to the point where the pistol fails to fire. Our revolutionary integrated fixed pressure regulator within the magazine helps to stabilize performance across a wide temperature range. Functional issues become particularly noticeable in cold weather conditions at or below freezing, but can be prevented by pausing longer between shots. Allowing this interval gives the gas time to warm up, restoring proper pressure and ensuring consistent, normal velocities.

3.5 NON-MARKING & MARKING ROUND HANDLING

- When not in use, always store unused rounds in a climate-controlled environment between 50°F and 75°F.
- Do not remove marking rounds from the mylar packaging until ready for use.
- The TPAK cartridges are made from 100% recyclable materials and should be discarded after use.
- Never attempt reuse the projectiles.
- When training in conditions where humidity is high and/or temperatures are above 90°F, non-marking rounds are considered more optimal. Using the marking round cartridges in high humidity and/or at higher temperatures may cause a degradation in performance and the rounds, which possess a risk to burst prematurely.
- When training in conditions where temperatures are below 25°F, the functional performance of the CO2 cylinder may be impacted.
- Marking rounds could freeze in lower temperatures, and velocity generated by the compressed CO2 propellant could also slow. T
- The colder the temperature, the more performance will degrade.
- When loading rounds into the magazine, be sure the magazine door is facing in a safe direction and away from any people.

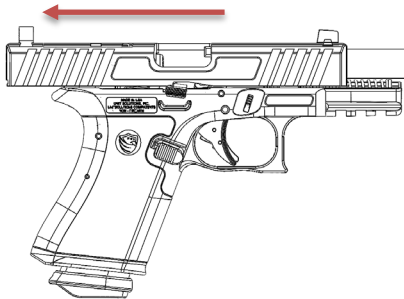
3.6 LOADING, AIMING, AND FIRING THE SYSTEM

CAUTION INSPECT YOUR SHOOTING BACKSTOP FOR WEAR AND DAMAGE PRIOR TO SHOOTING. DISCONTINUE SHOOTING AND REPLACE BACKSTOP IF BACKSTOP SHOWS ANY SIGN OF FAILURE. ALWAYS POSITION BACKSTOP IN SUCH AS A WAY AS TO MAINTAIN SAFETY SHOULD THE BACKSTOP FAIL.



STEP 1

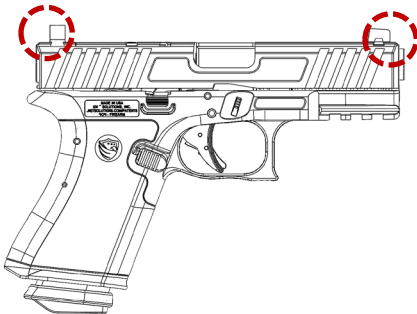
Insert magazine into the magwell until you hear and feel the mag catch engage. Pull the magazine down slightly from the baseplate to ensure proper seating.



STEP 2

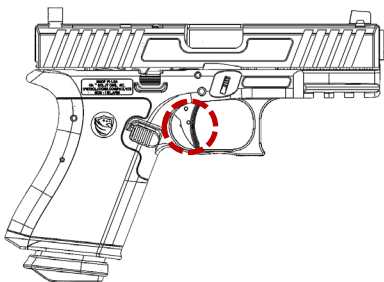
Pull the slide all the way to the rear and release to chamber a projectile.

The training pistol is now ready to be fired.



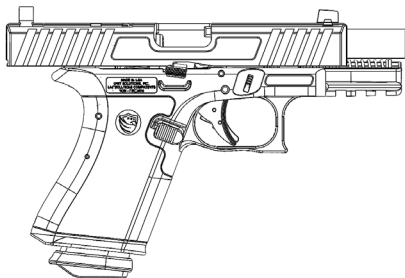
STEP 3

Aim the training pistol by aligning the sights as shown on your target. The sights are aligned properly when the front sight is centered in the notch of the rear sight and level with the top of the rear sight.



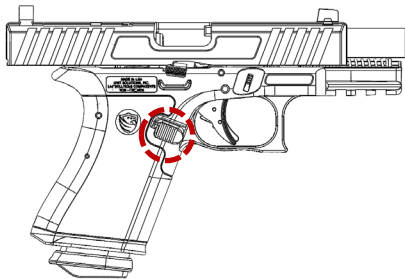
STEP 4

When ready to fire, pull the trigger slowly to the rear while maintaining sight alignment. The pistol will fire, and the slide will cycle another projectile into the chamber.



STEP 5

When the magazine is fired until empty, the magazine follower will engage the pistol slide stop locking the slide to the rear.



STEP 6

With the slide locked to the rear, depress the magazine release, dropping the empty magazine. A fresh, loaded magazine can be inserted and the slide stop depressed to continue firing.

CAUTION WHEN FIRING, THE SLIDE OF THE UNIT9 TRAINING PISTOL RECIPROCATES TO THE REAR AND THEN MOVES BACK FORWARD INTO THE FIRING POSITION. KEEP HANDS AND FINGERS AWAY FROM PINCH POINTS.

4 MAINTENANCE

▲WARNING A MALFUNCTIONING TRAINING PISTOL IS POTENTIALLY DANGEROUS AND SHOULD BE SECURELY STORED AWAY FROM USE UNTIL IT IS REPAIRED OR REPLACED. NEVER DISASSEMBLE THE TRAINING PISTOL BEYOND THE STEPS DESCRIBED IN THIS OWNER'S MANUAL. REASSEMBLY IS CHALLENGING, AND INCORRECT DISASSEMBLY OR REASSEMBLY CAN LEAD TO SEVERE INJURY OR DEATH.

▲CAUTION BEFORE PERFORMING ANY CLEANING OR MAINTENANCE, ALWAYS ENSURE YOUR TRAINING PISTOL IS UNLOADED AND POINTED IN A SAFE DIRECTION. REGULAR INSPECTIONS AND PROPER MAINTENANCE ARE ESSENTIAL FOR PROPER FUNCTION OF YOUR TRAINING PISTOL.

4.1 FIELD STRIPPING

To disassemble the UNIT9 Training Pistol to the field stripped level for proper routine maintenance, follow the instructions below.

1. Make sure the training pistol is unloaded. Eject the magazine if inserted, and lock the slide to the rear by pulling it all the way back pressing up on the slide stop, and releasing it slowly into the locked position.
2. Inspect the barrel from the magazine loading side to ensure that there is no projectile present.
3. Release the slide forward.
4. Pinch the slide lock from both sides of the training pistol and pull it down.
5. While holding the slide lock down, pull the slide forward and off of the frame.
6. Remove the recoil spring assembly by pushing it forward it slightly until it is out of the notch on the underside of the barrel that it rests in, and then lift and remove it from the slide assembly.

7. Press the barrel down from the top of the chamber hood to tilt it slightly, and remove it from the slide by pulling it up and out to the rear.
8. For reassembly of the slide, reverse these steps, making sure that the recoil spring is oriented properly and the rear is nested in the retaining feature on the underside of the barrel. The slide can then be slid back onto the frame. It will automatically re-engage the slide lock when it is fully seated.

4.2 ROUTINE MAINTENANCE

Properly maintaining your UNIT9 Training pistol will ensure that it functions for many firing cycles. By not regularly following this procedure, performance of the UNIT9 may degrade or the pistol may not function as intended.

When field stripped, clean all parts with a cotton cloth or cleaning swabs.

Apply 1-2 drops of high-quality CLP or light gun oil to the pivot points in the trigger mechanism, slide guide rails, and outside of barrel. CLP refers to the current Military Spec MIL-PRF 63460E & NATO S-758. The E revision CLP works in temperature ranges from -60°F to 160°F. Avoid using excessive amounts of lubricant as this may result in poor function of the pistol.

The barrel may be cleaned with the provided swab cord. Insert the cord from the rear of the barrel and pull the rubber squeegee through the barrel, repeating as necessary. Paint residue from markers that may break inside the barrel or upon loading can be removed with Isopropyl Alcohol. Do not use harsh chemicals or solvents on the UNIT9 Training Pistol.

When assembled, lightly oil the exterior metal surfaces of the UNIT9 using a cotton cloth to prevent corrosion when stored or in use.

THE UNIT9 TRAINING PISTOL DOES NOT NEED TO BE OILED OR CLEANED AS FREQUENTLY AS A REAL FIREARM. SINCE IT IS CO₂ FIRED, THERE WILL NOT BE THE EXCESSIVE CARBON RESIDUE THAT OCCURS FROM THE COMBUSTION OF GUN POWDER. FOLLOW THIS PROCEDURE AFTER ROUGHLY 1,000 SHOTS, OR AS NEEDED BASED ON ENVIRONMENTAL CONDITIONS.

4.3 MAGAZINE PREVENTATIVE MAINTENANCE

The UNIT9® Magazine features a miniature poppet valve that, when struck by the hammer, releases a charge of CO₂ into the training pistol's action. This charge both launches the projectile and cycles the slide. Periodically it is necessary to lubricate this poppet valve, and in some cases, replace it entirely when worn.

LUBRICATION

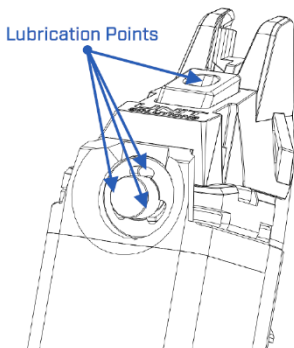
At 1,000 shot intervals, apply high-quality silicone O-ring oil to the poppet assembly.

Step 1 Unload the magazine, discharging any remaining CO₂ from the loaded cylinder. Discard the used cylinder and re-assemble the magazine.

Step 2 Lay the magazine front side down on a flat surface and apply 2-3 drops of silicone oil to the outside groove of the hammer strike surface on the poppet. Allow the oil to penetrate for a few seconds.

Step 3 Gently depress the hammer strike surface with your thumb back and forth 3-4 times to allow the oil to work through the poppet valve.

Step 4 Apply 1-2 drops of silicone oil into the outlet seal opening. The magazine is now ready for use.



5 TROUBLESHOOTING

FAILURE	POSSIBLE PROBLEM	POSSIBLE SOLUTION
Short recoil	Damaged or weak recoil spring	Verify recoil spring function. Replace as needed.
	Damaged outlet seal	Visually inspect outlet seal and replace as needed.
	Defective Magazine	A/B comparison test with known good magazine to see if service is required. Swap magazines to continue training.
	Damaged bolt O-Ring and/or bolt plug O-Ring	Visually inspect the bolt O-Ring and the bolt plug O-ring for signs of wear or damage and replace as needed.
	Magazine leaks CO2 gas at a slow rate (see section below)	See "Magazine Leaks CO2 Gas" in the row below. It is possible for a minor leak to not audibly present itself.
Magazine leaks CO2 gas	Missing inlet cartridge seal.	Visually verify that the inlet cartridge seal is present. Replace if necessary.
	Insufficient torque applied to CO2 cylinder	If the inlet seal is present, make sure that sufficient torque is applied to fully seat the CO2 cylinder
Failure of magazine to lock into place	Magazine catch is dirty or rusted	Clean and lubricate catch with CLP
	Damaged or broken magazine catch or spring	Return frame to manufacturer for spring replacement
	Damaged or broken magazine catch	Return frame to manufacturer for catch replacement
Failure to Feed	Defective magazine	Replace magazine top cover and magazine spring. If problem persists replace magazine.
	Short recoil	See "Short recoil" failure mode
	16 rounds were loaded into the system AND the magazine was inserted with the slide forward, in battery	In this specific situation, the follower tab will lock out, preventing rounds from feeding. Extract the magazine from the system and ensure that only 15 rounds are loaded. Release the follower and the spring to resume training.

Failure to Chamber	Damaged or weak recoil spring	Replace spring
	Defective magazine	Replace magazine top cover and magazine spring. If problem persists replace magazine.
	Short recoil	See "Short recoil" failure mode
	Barrel obstruction	Clean the barrel ID. Replace the barrel seal if evidence of damage is visually observed.
Failure to Fire	CO2 Cylinder is empty or defective	Replace CO2 cylinder
	Broken or cracked bolt	Return slide to manufacturer for bolt replacement.
	Broken hammer or hammer spring	Return frame to manufacturer for repair.
	Bolt not seating fully into battery	Clean bolt and barrel interface surfaces.
	Short recoil	See "Short Recoil" failure mode

6 PRODUCT WARRANTY

6.1 PRODUCT WARRANTY

Subject to the terms and conditions set forth in this Product Warranty, UNIT Solutions makes the following warranties:

6.1.1 UNIT9® Training Pistol

Warranty: Unit Solutions warrants that the UNIT9® Training Pistol (the “Pistol”) will, under normal use and maintenance in accordance with our product specifications and Operator’s Manual, be free of defects in workmanship and materials for a period of twenty-four (24) months following the date of delivery to the customer.

6.1.2 UNIT9® Magazine

Warranty: UNIT Solutions warrants that the UNIT9® Magazine (the “Magazine”) and UNIT Solutions projectiles will, under normal use and maintenance in accordance with our product specifications and Operator’s Manual, be free of defects in workmanship and materials for a period of twenty-four (24) months following the date of delivery to the customer.

WHAT IS COVERED: During the warranty period, replacement parts and labor. Transportation charges to consumer for repaired product. Proof of purchase may be required. Replacement parts may be new, refurbished, or functionally equivalent. Repaired or replaced items are warranted for the remainder of the original warranty period or ninety (90) days from return shipment, whichever is longer.

WHAT IS NOT COVERED: Transportation charges to an authorized repair facility for defective product. Damages caused by abuse, modification, or failure to perform normal maintenance as set forth herein. Any other expenses. CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES, OR EXPENSES INCLUDING, BUT NOT LIMITED TO, DAMAGE TO PROPERTY OR PERSONAL INJURY ARE NOT COVERED.

6.2 DISCLAIMER

EXCEPT AS EXPRESSED SET FORTH HEREIN, THE COMPANY MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER WRITTEN OR ORAL, EXPRESS OR IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE, OR BY OPERATION OF LAW, OR FROM ADVERTISING, BROCHURES, PROMOTIONAL MATERIALS, PROPOSALS, DOCUMENTATION, PACKAGING, OR OTHER DESCRIPTIVE LITERATURE OR COMMUNICATIONS. WHERE PERMITTED BY LAW, ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD STATED ABOVE.

6.3 EXCLUSIVE REMEDY

The SOLE AND EXCLUSIVE REMEDY under this warranty is that UNIT Solutions will, at its sole option, repair or replace the warranted product free of charge. Warranty Authorization Number [WAN#] is required prior to shipment. Any products sent without a WAN# may be refused. Risk of loss for inbound shipments remains with the customer until received by Unit Solutions.

We will return the repaired or replacement product via the lowest cost shipping method, prepaid. Please contact us at 844.488.UNIT(8648) to receive a Warranty Authorization Number [WAN#] and then ship the product to:

UNIT Solutions
2061 Case Pkwy S
Suite B
Twinsburg, Ohio 44087
ATTN: WAN#

The foregoing is the exclusive remedy for a breach of any of the product warranties set forth above.