MACAVITY ARMS

MA3 PCP AIRGUN USER'S MANUAL

MACAVITY AGILITY SERIES

WARNING

! BASIC SAFETY

- Not a toy. Adult supervision required. Misuse or careless use may cause serious injury or death. This airgun may be lethal up to 1,000 yards (914 meters).
- Never use airguns under the influence of alcohol or drugs. Impaired judgment increases the risk of accidents.
- DO NOT brandish or display this airgun in public. Doing so may cause concern, lead to dangerous misunderstandings, and could be considered a crime in some jurisdictions.
- DO NOT alter the coloration or markings to make the airgun resemble a firearm. This could increase the risk of misidentification.
- Always store the airgun and pellets securely out of the reach of children. Keep the airgun and ammunition in separate, locked locations to prevent unauthorized access.
- Always treat this airgun as if it were loaded. Verify it is on "SAFE" and unloaded when receiving it from another person or retrieving it from storage.
- Never leave this airgun loaded or cocked. Do not store it loaded or cocked. When transporting, keep it unloaded with the safety in the "SAFE" position.
- Do not inhale dust from lead pellets or put lead pellets in your mouth. Wash your hands thoroughly after handling lead to avoid ingestion or contamination.
- Regularly inspect the airgun for wear or damage. Do not use if it appears faulty; have it serviced by a qualified technician.
- Do not attempt to disassemble or tamper with this airgun. Contact customer service for repair. It contains powerful springs and high-pressure air cylinders that can cause serious injury if released uncontrollably.
- Follow all local laws and regulations regarding the possession, use, and transportation of airguns. Ignorance of the law is not an excuse for misuse.

! USAGE SAFETY

- Keep the safety of this air rifle in the "SAFE" position until you are ready to shoot, even if the airgun is unloaded. This reduces the risk of accidental discharge.
- Always keep your fingers off the trigger and away from the muzzle, especially while cocking the airgun, to prevent unintentional firing or injury.
- Use the correct pellet size according to the air rifle model. Never reuse pellets. The use of any other kind of ammunition can cause injury to you or damage the airgun.
- Do not walk, run, or jump when carrying a loaded or cocked airgun. A loaded or cocked airgun should never be carried inside a vehicle, house, camp, or public place.

WARNING

- Always use eye and ear protection, and ensure bystanders do the same, to safeguard against ricochet, debris, or permanent hearing loss.
- Never point the airgun at anything you do not intend to shoot. Always be aware of your target and what lies beyond it.
- DO NOT shoot at hard surfaces or at the surface of water. The pellet may bounce off or ricochet and hit someone or something unintended.
- Choose or place your target carefully. Think about what you will hit if you miss. Shoot at paper bullseye targets attached to a safe backstop. Check your backstop for wear before and after each use, and replace it if the surface is worn, damaged, or if a ricochet occurs.
- Maintain a safe distance from others when shooting—at least 10 yards (9 meters) is recommended unless protective barriers are in place.
- Ensure proper ventilation when shooting indoors to avoid buildup of lead dust or propellant residues.
  Think first, fire second. Do not rely solely on any mechanical safety—half safe is not safe. Always prioritize caution and awareness.

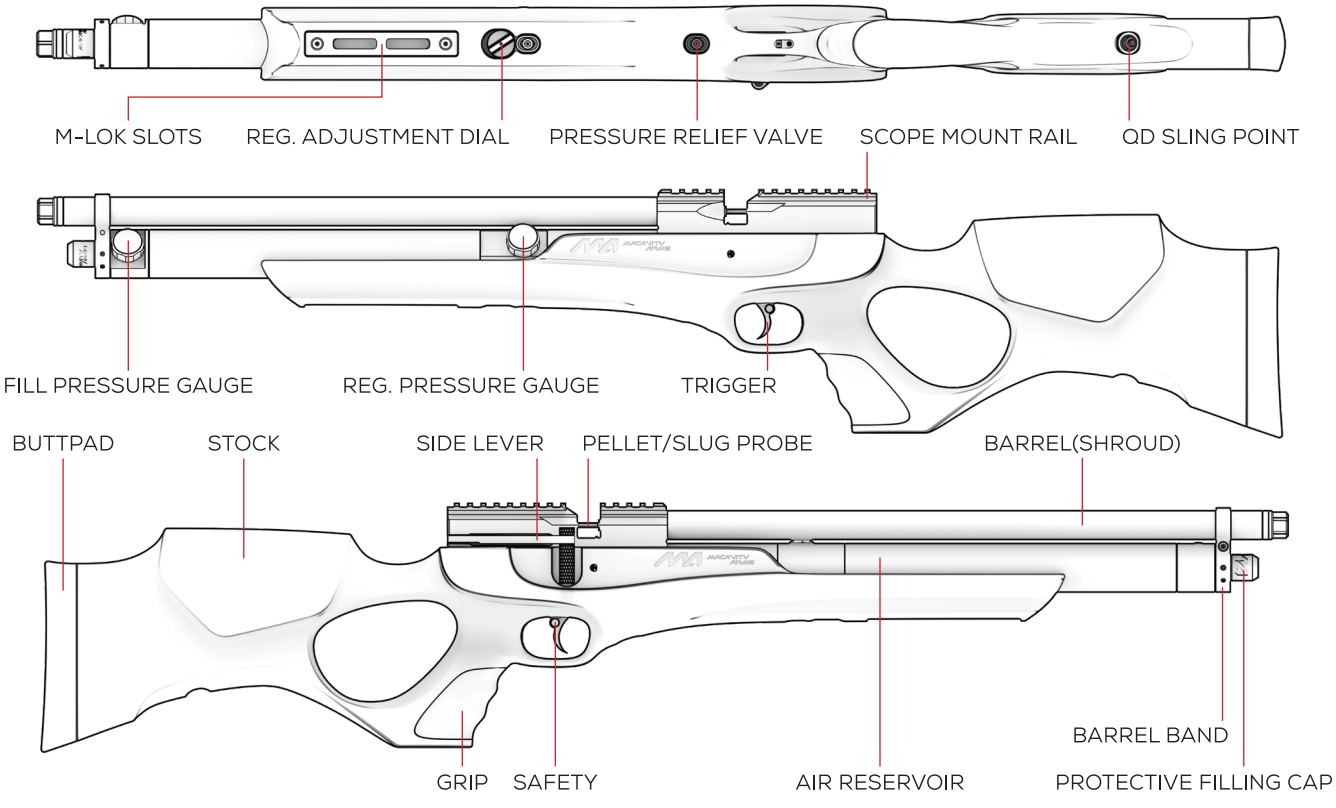
! DISCLAIMER

Before loading or using this air rifle, familiarize yourself with its operation and practice safe handling procedures as outlined in this manual. The manufacturer and distributor are not liable for any injury, damage, or loss resulting from improper use or handling, under any circumstances. The user assumes full responsibility for any harm caused by the airgun.

! CALIFORNIA PROP 65

Lead pellets contain lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, please visit www.P65Warnings.ca.gov.

PRODUCT DIAGRAM



SPECIFICATION

CALIBER	.177cal	.22cal	.25cal	.30cal
SKU	MA-P3017L / MA-P3017	MA-P3022L / MA-P3022	MA-P3025L / MA-P3025	MA-P3030L / MA-P3030
RECOMMEND AMMO	JSB DIABOLO Exact Diabolo Cal .177 8.44gr	JSB DIABOLO Exact Jumbo Heavy Cal .22 18.13gr	JSB DIABOLO Exact King Cal .25 25.39gr	JSB DIABOLO Exact Diabolo Cal .30 44.75gr
MAX MUZZLE ENERGY	40J	60J	80J	125J
BARREL TWIST RATE	1 in 18inch	1 in 22inch	1 in 24inch	1 in 22inch
MAGAZINE CAP.	13	11	10	8

AMMO TYPE	Pellet	GUN WEIGHT	7.6lb (3.45kg) / 7.2lb (3.26kg)
CYLINDER SIZE	265cc / 188cc	OVERALL LENGTH	40.9in (1038mm) / 36.9in (936mm)
MAX FILL PRES.	3600psi (250bar)	BARREL LENGTH	22in (559mm) / 18in (457mm)
ACTION	Sidelever	SHROUDED	Yes
MECHANISM	Pre-charged Pneumatic	RAIL	Picatinny (Weaver)
BARREL STYLE	Refiles	BUTTPLATE	Rubber
FIRE MODE	Repeater	STOCK	Beech
SAFETY	Manual	TRIGGER ADJUST.	2-Stage Adjustable
REG. ADJUST RANGE	40 - 220bar (600 -3800psi)		

OPERATION THE SAFETY

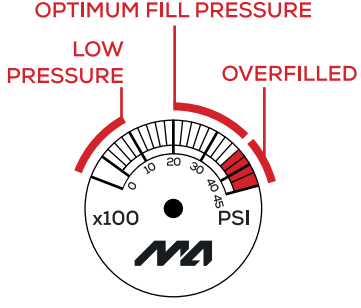
1. Locate the safety button on the trigger.
2. To put the airgun "ON SAFE", push the safety button till the red ring is hidden.
3. To take the airgun "OFF SAFE", push the safety button till the red ring is shown. When the airgun is "OFF SAFE," it is ready to fire once you've followed the manual's instructions for filling and loading.

⚠
- Like all mechanical devices, airgun safety can fail. Even when the safety is "ON SAFE", you should continue to handle the airgun safely. Never point the airgun at anything you do not intend to shoot.
- Keep the airgun "ON SAFE" until you're ready to fire. Then push the safety button to the "OFF SAFE" position.

PRESSURIZING (FILLING) THE AIR RIFLE

- **READING AIR CYLINDER PRESSURE GAUGE**

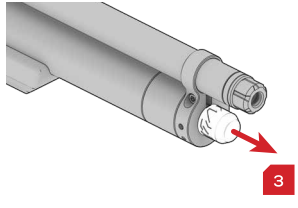
The pressure in the cylinder can be read on the built-in pressure gauge. The gauge has an accuracy of +-4%. Temperature variations can also affect the level shown.

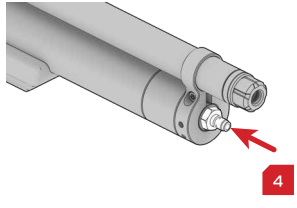


⚠ Check the pressure level indicator of the compressed air cylinder only when your air rifle is unloaded and decocked and when the safety is engaged.

- **PRESSURIZING (FILLING) THE AIR RIFLE**

1. Be sure to wear eye protection.
2. Make sure the airgun is "UNLOADED", "ON SAFE" and pointed in a SAFE DIRECTION.
3. Remove the protective cap from the fill nipple on the airgun.
4. Attach the quick disconnect from your filling equipment to the fill nipple on the airgun.
5. Fill the airgun slowly to eliminate heat buildup and chance for overfilling. If the airgun is overfilled, past 3600psi (250bar), refer to "DEPRESSURIZING THE AIR RIFLE" section for depressurizing.
6. Replace the fill nipple cover in the reverse order of removal.





- Use only compressed air in this airgun. Other gases, including pure oxygen, can damage the airgun and may ignite or explode, potentially causing injury or death.
- DO NOT disconnect the fill hose before first bleeding the air. Failure to follow these instructions may cause the hose to whip from pressure built up in the fill hose and may result in serious injury or death.
- DO NOT overfill the airgun. Excessive pressure can damage airgun and may lead to an explosive air cylinder rupture which can cause injury or death.
- NEVER expose filled pressure cylinders to a temperature above 122F (50C).
- DO NOT make alterations to the compressed air cylinder or its valves.
- Follow all applicable national regulations for refilling.
- DO NOT attempt to refill a leaking or unsafe cylinder. Safely empty it instead.

- **OVERFILL**
  1. Over filling beyond the "as tuned" best fill pressure does not improve performance. It will lessen performance and may cause the valve to lock. If you discover that the airgun has been over filled, try to dry fire the airgun (cock and shoot with no pellet loaded) in a SAFE DIRECTION until pressure on your airgun drops to 3500psi or less depending on where your gun's tuned best fill pressure is.
  2. If the airgun will not discharge air with each shot, the valve may be completely pressure locked and will require use of the degassing tool. Follow the instructions included with the degassing tool to fully or partially depressurize the airgun.

DEGASSING THROUGH THE RELIEF VALVE

Exceeding the airgun best fill pressure doesn't enhance performance, it may lock the valve. Although your airgun should retain some reservoir pressure during storage to maintain seal integrity, depressurization may be necessary (e.g., for maintenance or after overfilling). In such cases, follow the steps below:

- **DRY FIRE**

  Dry fire only if the airgun is overfilled.
  1. Keep the airgun pointed in a SAFE DIRECTION.
  2. Depressurize the airgun by repeatedly dry-firing until the pressure gauge on your airgun shows the pressure is lower than the max fill pressure.
  3. Put the air gun "ON SAFE".

Avoid dry firing the airgun when the pressure falls below the regulator pressure.

DEGASSING THROUGH THE RELIEF VALVE

1. Be sure to wear eye protection.
2. Ensure the airgun is unloaded, uncocked, set to "ON SAFE," and pointed in a safe direction.
3. Locate the stock mounting screws at the bottom of the chassis and unfasten them using an Allen wrench [M4].
4. Pull the breech upward to disengage the upper assembly from the receiver.
5. Use the Allen wrench [M2.5], slowly turn the air relief valve counter-clockwise. DO NOT remove the relief valve screw completely as the relief valve should remain with the stock.
6. After the rifle is depressurized, use the Allen wrench to tighten the relief valve by turning clockwise.
7. Check the gauge to make certain all pressure has been relieved from the airgun.

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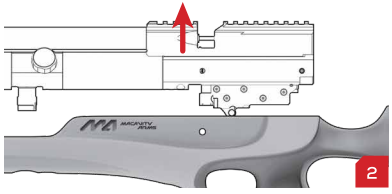
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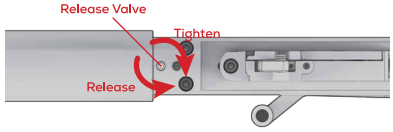

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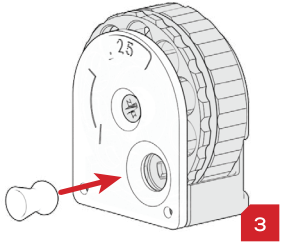
- In cases of low pressure, it is possible that the pressure gauge may still display remaining pressure, but the air valve has ceased to release air. In such situations, simply give the air valve a slight turn to resume air release.
- After fully depressurizing, it is essential to cock the airgun before the next refill.

LOADING THE ROTARY MAGAZINE

1. Ensure the airgun is "ON SAFE" and pointed in a SAFE DIRECTION.
2. If the magazine is already inserted in the airgun, remove it to begin loading the magazine (see Section "Unloading-Removing the magazine.")
3. Face to the clear magazine cover. Load the first pellet into the magazine, head first. Ensure the pellet does not protrude out of the back of the magazine. If it does, simply push the pellet inward.
4. Rotate the rotary wheel counter-clockwise while holding it in place, aligning the next empty pellet hole with the hole on the clear magazine cover. Load the next pellet into the magazine.



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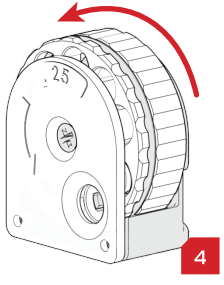

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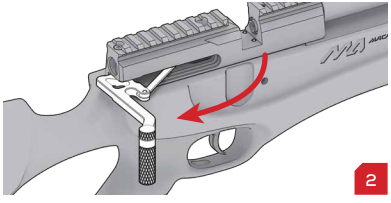
5. Repeat this process for the remaining pellets. The magazine rotation will lock into place once the pellet is correctly loaded.

INSERTING THE ROTARY MAGAZINE

1. Make sure airgun is "ON SAFE" and pointed in a SAFE DIRECTION.
2. Pull the charging handle back to the cocked position and hold.
3. With the cover of the magazine facing the butt of the airgun, insert the magazine from the right side and push it inward until it snaps into place.
4. Push the charging handle forward to make sure the bolt and charging handle is properly closed. This will allow it to properly chamber the first pellet.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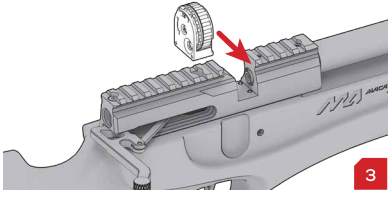
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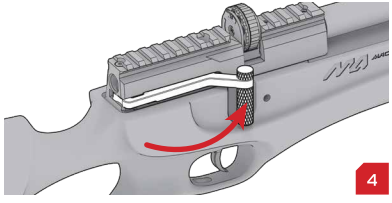
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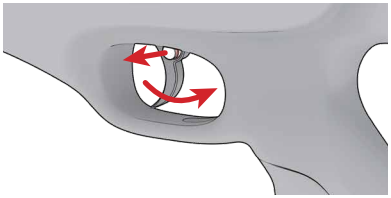
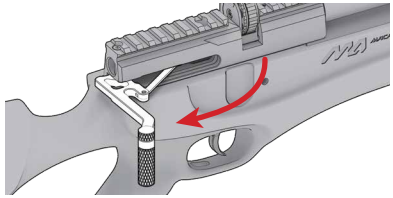
⚠ The airgun is now cocked and loaded. Keep "ON SAFE" and make sure the airgun is always pointed in a SAFE DIRECTION.

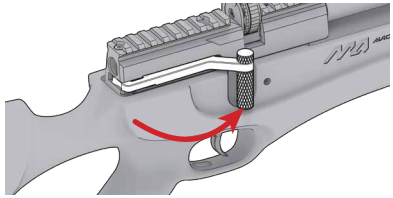
⚠ Never carry your airgun while cocked and/or while loaded. It is best to cock the airgun only before shooting. Under no circumstances should your airgun be carried cocked and loaded.

SHOOTING

1. After inserting the rotary magazine, push the charging handle forward to make sure the bolt and charging handle is properly closed. This will allow it to properly chamber the first pellet.
2. When you are sure your air rifle is aimed at a safe target and you are ready to fire, put the airgun on "OFF SAFE". Squeeze the trigger.
3. To cycle into the next shot, avoiding contact with the trigger, pull the charging handle back then return it to the front position.







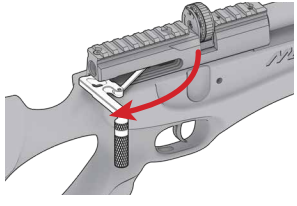
- After the last round is fired from the rotary magazine, the charging handle cannot be pushed all the way forward. DO NOT force the charging handle forward.
- Every time the charging handle is pulled back and pushed forward a pellet is loaded into the chamber. If done multiple times before pulling the trigger, multiple pellets will be loaded into the barrel and may become lodged inside upon firing.

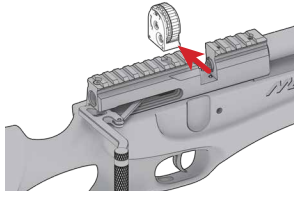
- When cocking the airgun, DO NOT place your hand over or in front of the muzzle. NEVER allow the muzzle to point toward you or anyone else during cocking. Always keep the muzzle pointed in a SAFE DIRECTION.
- NEVER assume a projectile is not lodged in the barrel because the airgun no longer fires a projectile. Always treat the airgun as though it is loaded and with the same respect you would a firearm.
- Choose your targets carefully and be sure that the area around the target is clear. Think about what you will hit if you miss the target.

UNLOADING & UNCOCKING

- **UNLOADING-REMOVING THE MAGAZINE**
  1. To unload the airgun, it is best practice to fire the pellet in a SAFE DIRECTION.
  2. Pull the charging handle back to the rear position.
  3. Push the magazine out of the receiver from the left side.
  4. Uncock the airgun for safe storage. Refer to the next section "UNCOCKING" for instruction.
- **UNCOCKING**

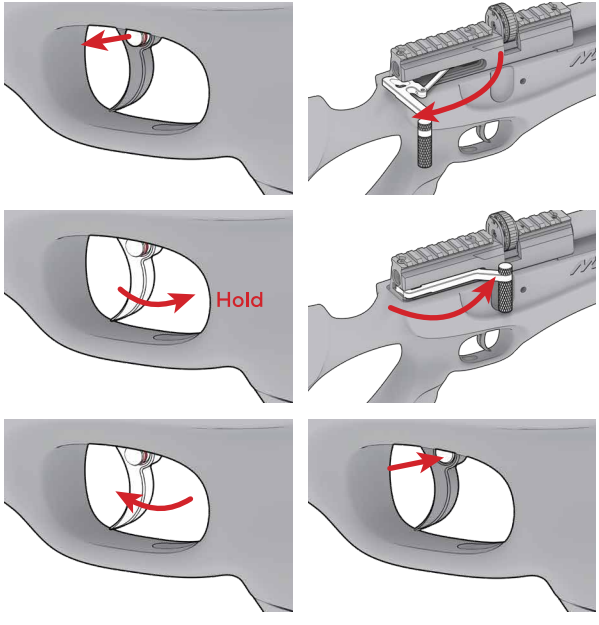
  In the event you are finished shooting, remove the magazine as





instructed and un-cock the airgun.

1. Point the airgun in a SAFE DIRECTION.
2. Take the airgun "OFF SAFE".
3. Pull the charging handle back to the rear position.
4. While firmly holding the charging handle in the rear position, pull the trigger.
5. Continue to hold the trigger back while sliding the charging handle forward to the closed position.
6. Release the trigger.
7. Put the airgun on "ON SAFE".
8. The airgun is now ready for storing.

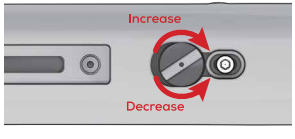


ADVANCED ADJUSTMENT TECHNIQUES

When adjusting the airgun, ensure it is unloaded, uncocked, and set to 'ON SAFE' before making any adjustments. Always keep the muzzle pointed in a safe direction.

REGULATOR PRESSURE ADJUSTMENT

1. Locate the adjustment dial beneath the wooden stock.
2. To decrease pressure, turn the adjustment dial counterclockwise. When decreasing pressure, note that the gauge may not immediately display the updated pressure. Fire the airgun 1-2 times in a safe direction, to allow the gauge to reflect the new pressure setting.
3. To increase pressure, turn the adjustment dial clockwise. Wait a few seconds to allow the pressure gauge to stabilize and reflect the change.
4. Make small adjustments by turning the dial a small angle each time. If the desired pressure isn't reached, repeat the adjustment as needed. After adjusting, verify the pressure on the gauge and test the airgun's performance to ensure it meets your requirements.



The regulator pressure can be externally adjusted 40 - 220 bar (600 - 3800 psi) using the regulator adjustment dial. Do not exceed the maximum recommended pressure. Over-pressurization can damage the airgun or cause an explosive rupture, risking serious injury or death.

Only adjust the regulator when necessary, as frequent changes may affect consistency.

- **TRIGGER ADJUSTMENT**

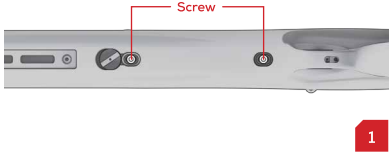
The trigger assembly on this airgun is a two-stage, adjustable unit. It has been factory set to an efficient setting that will suit most hunting and target uses. It can be adjusted and customized but unless you are experienced in making such adjustments, Macavity Arms recommends that these adjustments to factory settings be made only by a qualified gunsmith after reading all instructions.

Adjusting the trigger can result in a light trigger pull, preventing proper operation of the safety mechanism and negatively affecting sear engagement. If you are not sure that the airgun safety is functioning and/or sear is engaging properly, take your airgun to an experienced gunsmith to be inspected.

1. Put the airgun "ON SAFE", remove the magazine and keep the airgun pointed in a SAFE DIRECTION.
2. Make sure the bolt is pushed forward and NOT in the cocked position.
3. Sear Engagement Adjustment Screw: This screw engages the lower sear as the trigger is compressed. It should be seated tightly and not used for trigger travel adjustment. To increase the sear engagement, turn the screw counterclockwise. To decrease the sear engagement, turn the screw clockwise.
4. Travel Adjustment Screw: Increase rearward movement of the trigger after the sear releases by turning the screw counterclockwise. Decrease trigger rearward movement by turning the screw clockwise.

- This adjustment feature are for advanced shooters. Most shooters can use the settings provided during manufacturing of the gun and should not need to make modifications.
- Make only adjustments identified in this manual.
- Decreasing the sear engagement too much will cause the airgun to not properly engage the sear on cocking.
- Decreasing the trigger movement too much will prevent the rifle from proper sear engagement.
- After adjusting your trigger, always check that the trigger and safety are functioning properly. If you are not sure if the trigger or safety is operating properly, take your gun to an experienced gunsmith. Make only adjustments identified in this manual.

- **HAMMER ADJUSTMENT**
  1. Locate the stock mounting screws at the bottom of the chassis and unfasten them [M4].
  2. Pull the breech upward to disengage the upper assembly from the receiver.
  3. Loose the side-screw [M2.5]. Rotate the hammer adjustment screw [M3] clockwise to increase hammer strength, or counter-clockwise to decrease hammer strength as desired.
  4. Reinsert the upper assembly into the chassis, ensuring proper alignment and fitment.
  5. Reinstall and securely tighten the bottom screw before using.



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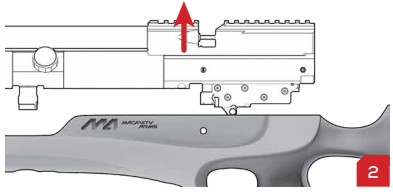
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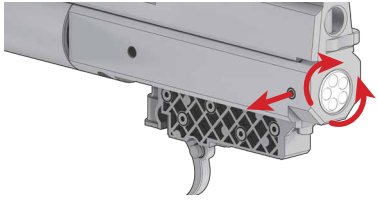

TROUBLE SHOOTING

- **REMOVING A JAMMED PELLET**

If a pellet is jammed in the barrel, DO NOT reload the air rifle.

1. NEVER LOOK DOWN THE MUZZLE. Open the breech and remove the magazine, point the air rifle in a SAFE DIRECTION, close the breech, put the air rifle in the "OFF SAFE" position and squeeze the trigger to fire.
2. If you believe the air rifle is still jammed, make sure the airgun is uncocked, "ON SAFE" and pointed in a SAFE DIRECTION.
3. Open the breech and insert the correct caliber ramrod (at least 30" in length) into the muzzle and push the jammed pellet out.
4. If you are not able to unjam your air rifle with the above procedure, take no further action. Contact Macavity Arms customer service department for assistance.

⚠
- DO NOT try to reuse the pellet.
- The barrel could be damaged if the incorrect sized clearing rod is used.

- **GAS LEAKING THROUGH BARREL WHILE FILLING**

  If gas leaks through the barrel during filling, it may be due to low tank pressure allowing the hammer to continuously press and release the valve. This typically happens when the regulator's gas pressure is too low (near 0), failing to hold the valve in place, which lets gas escape into the barrel. To resolve this, follow these steps:

  1. Before filling, fully cock the rifle.
  2. Ensure the chamber is empty of pellets, point the muzzle in a safe direction, and set the safety to "ON SAFE."
  3. After the filling is complete, uncock the rifle.

MAINTENANCE

If you drop your airgun, check for mechanical damage before using it again.

Periodically check your airgun. If a fault is detected, such as shorter or weaker trigger pull, parts showing excessive wear, contact Macavity Arms customer service for assistance before using your airgun again.

Always store the airgun with pressure (at least 1000psi/69bar) in the air cylinder. Store away from radiative heat source such as under the sun. Keep out of high humidity and temperature.

- **CLEAN THE BARREL**

  1. Cleaning the barrel of your airgun regularly is essential to maintain optimal accuracy and prolong its lifespan. Follow these step-by-step instructions to ensure safe and effective cleaning:
  2. Put the airgun "ON SAFE", remove the magazine and keep the airgun pointed in a SAFE DIRECTION.
  3. Dip the bore brush into the cleaning solvent, ensuring the bristles are soaked. Attach the bore brush to the cleaning rod securely.
  4. Insert the cleaning rod with the attached bore brush into the breech end (rear) of the barrel. Push the brush gently through the entire length of the barrel in one direction (muzzle to breech). Avoid excessive force or aggressive scrubbing to prevent damage to the rifling.
  5. Carefully withdraw the cleaning rod with the bore brush from the barrel.
  6. Attach a clean and dry patch or swab to the cleaning rod. Insert the rod into the barrel and push it through again from the muzzle to the breech. Repeat this step with fresh patches until they come out relatively clean.
  7. Shine a light through the barrel or use a bore light to inspect its condition. Look for any remaining debris or fouling.
  8. Apply a small amount of airgun specific lubricant to a patch or swab. Pass it through the barrel to provide a thin, even coat of lubrication.

- **APPLY SILICONE OIL**
  Apply very little lubrication on the working parts including the surfaces around the charging handle, the trigger mechanism every 3 months or 500 shots.

- DO NOT apply the lubrication at the O-ring on the probe, inlet, hammer housing, inner barrel.
- DO NOT use petroleum based lubricant in the gas reservoir.

WARRANTY

- **THREE-YEAR LIMITED WARRANTY**
  Macavity Arms products are warrantied to the retail consumer for a duration of three years from the date of retail purchase, safeguarding against any defects in material and workmanship, upon the provision of a valid purchase receipt. In the unlikely event that any such defects in materials or workmanship arise within the initial thirty-six (36) months after the retail purchase, we undertake to repair or replace the defective items as per the terms and conditions of the warranty. Macavity Arms reserves the right to make substitutions for similar product/s if the warrantied model in question is no longer available. To activate the full three-year warranty, customers must submit the registration card within 30 days of purchase or register the product online at macavityarms.com/pages/warranty.

  In cases where warranty activation has not occurred, we offer a maximum one-year warranty from the date of purchase, provided that a valid purchase receipt is available. If no purchase receipt is provided, warranty coverage extends for up to one year from the date of production.

- **WARRANTY COVERAGE**
  1. Replacement of parts and associated labor costs.
  2. The return shipping of warranty products to customers will be covered by Macavity Arms for USA addresses only.

  EXCLUSIONS FROM COVERAGE
  1. The costs of shipping or transporting the product to Macavity Arms for warranty, including insurance or fees, duties and taxes are the sole responsibility of the purchaser.
  2. Any damage or faults resulting from owner misuse, actions, or inactions.
  3. Damages caused by abuse, modification, failure to perform normal maintenance, or the use of non-Macavity Arms components. In such cases, customers may opt to pay for the cost of repairs and round-trip shipping for Macavity Arms to perform the necessary service.
  4. Any other expenses incurred.

5. Parts that experience normal wear and tear.
6. Damages or losses incurred during transportation.
7. Consequential damage, incidental damages, or incidental expenses, including damage to property.

- **WARRANTY CLAIM**

A Return Merchandise Authorization (RMA) must be issued before returning the product. Please email us at cs@macavityarms.com, or contact Macavity Arms customer service number at +1(626)-762-0275 to obtain warranty services and RMA.

Our customer service team operates during regular business hours in PST (Pacific Standard Time). Our regular business hours are from 10AM to 5PM, Monday through Friday, PST (Pacific Standard Time). During this time, our dedicated representatives are available to assist you with any inquiries, provide product information, and address any concerns you may have.

Go online (macavityarms.com/pages/warranty) to find more information about the warranty.

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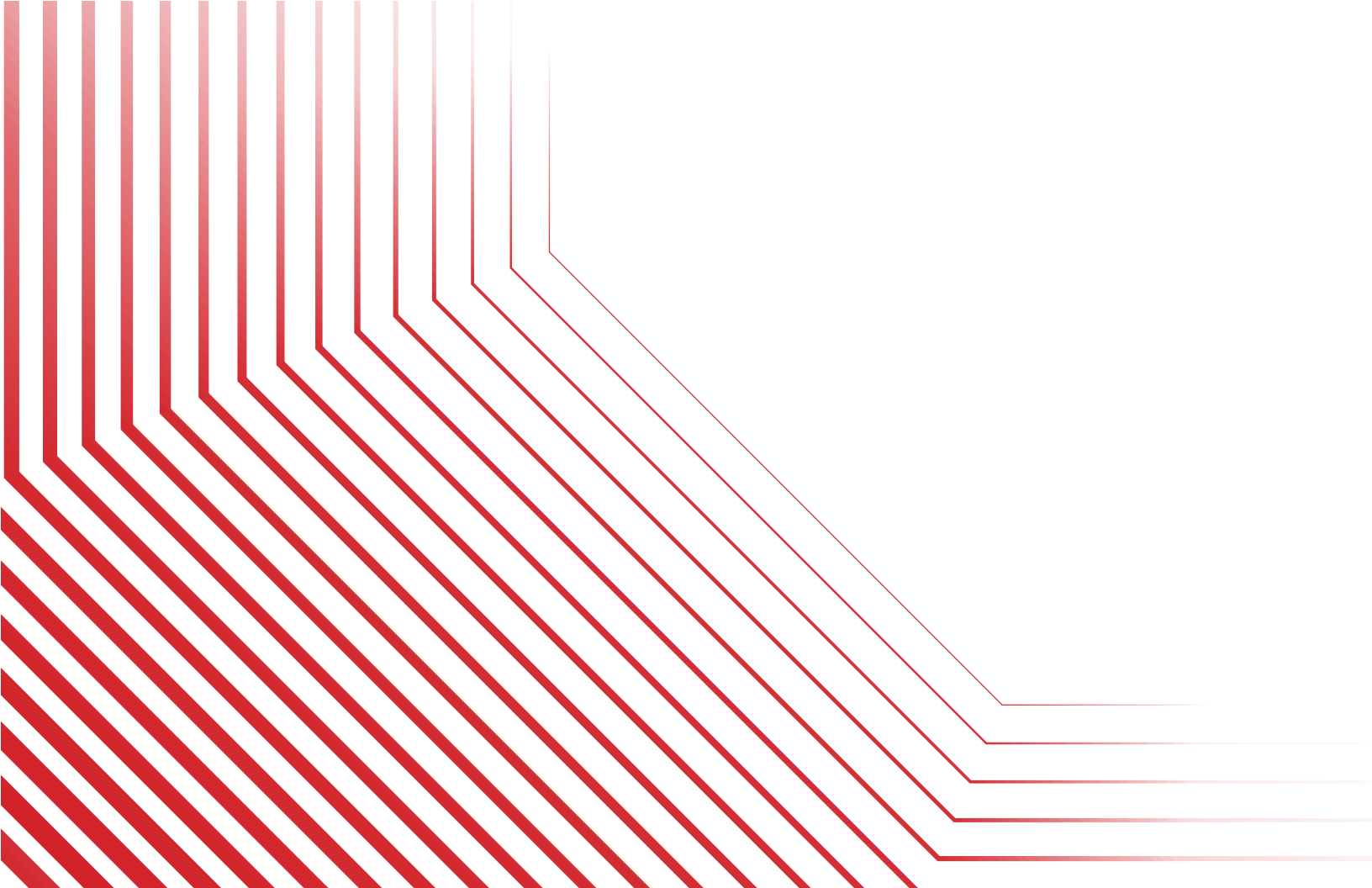
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