

4-H Shooting Sports



Rifle Projects
BB Gun
Air Rifle (Pellet)

4-H Basic Rifle Orientation



BB & Air Rifle

Name: _____

4-H Basic Rifle Orientation BB & Air Rifle

Range Officer is the person responsible for seeing the range is operated safely and for the safety of all participants/individuals.

Range Commands are instructions given by the range officer to control those on the firing line, the sequence of events and to inform the shooters what they are to do next. These commands may vary slightly depending on the range officer and the type of shooting that is being done.

Key Range Commands:

Commence Firing means that the range officer has determined that the range is safe and you may begin firing.

Cease Firing means that you **MUST STOP** firing immediately, put your safety on and wait for the next command on what to do next. In some cases you will be instructed to unload your gun; this will be determined by the range officer on duty.

5 Shooting Fundamentals:

1. Position of Body & Body w/ Rifle
2. Sight alignment
3. Breath Control
4. Trigger Control
5. Follow Through

4 Steps to Learning a New Position:

1. Study the position
2. Practice the position without the rifle
3. Practice the position with a unloaded rifle
4. Align the position with the target and adjust to natural point of aim.

Parts of the BB Gun & Air Rifle

3 Major Parts:

1. Action (Lock)
2. Stock
3. Barrel

Parts of Stock:

Butt of Stock– the rear portion of the stock which is designed to fit against the shoulder.

Comb of Stock – the top portion of the stock, on which the shooter rests his cheek.

Small of Stock -(also called the “**grip**” or “**pistol grip**”) – the area where the hand grasps the stock when firing the rifle.

Fore-end (or “forearm”) – the part of the stock that extends underneath the barrel. This is where the non-shooting hand holds the rifle to support it while shooting. When separate from the rear of the stock, it is called the “forearm”.

Parts of Barrel:

Bore – the inside of the barrel

Muzzle – the front end of the barrel where the bullet exits

Sights - used to aim the rifle

Front Sight – located at the muzzle end of the barrel

Rear Sight - sight that is most nearest you

Chamber – the part of the barrel which holds the pellet at instant of firing (AR Only)

Rifling – Composed of spiral “lands and grooves” cut into the bore. The rifling makes the bullet spin to give it stability. (AR Only)

Parts of Action:

Bolt – closes over the chamber to hold the cartridge in place for firing.

Lever – handle used to cock the gun

Trigger – when squeezed, activates the firing mechanism to fire the rifle

Trigger guard – designed to protect the trigger in order to reduce the possibility of an unintentional firing.

Safety – a **mechanical device** designed to reduce the chance of an unintentional discharge. **Mechanical devices can fail and must be used ONLY as a supplement to safe gun handling practices!**

Supplies You Will Need BB Gun and Air Rifle

NOW:

- Shooter Log Notebook
- A case to hold all equipment
- Safety glasses
- Wooden Ammo block
- Ground cloth (For outdoor practices)
- Pencil
- Optional – binoculars

LATER:

- Your own rifle
- Talk to leaders **before** purchasing your own BB gun or air rifle so that you will not be disappointed. There are requirements that your equipment must meet in order to enter fair competitions.
- Gun Case
- Cleaning supplies
(Cotton patches, cotton cloth, oil, solvent, tooth brush)

Transport all shooting equipment (firearms & bows) in cases, unloaded and in the trunk; or furthest point away from passengers if you do not have a trunk. Ammunition is to be in it's separate container, NOT stored with firearms.

Safety Rules

YOU alone are responsible for gun safety!

RULES FOR SAFE GUN HANDLING

1. Always keep the gun pointed in a safe direction.

(NOTE: This rule is considered the "GOLDEN RULE".)

2. **Always** keep the gun unloaded until ready to use.
3. **Always** keep your finger off the trigger until ready to shoot.

RULES FOR SAFE RIFLE USE AND STORAGE

1. Know your target and what is beyond.
2. Know how to safely use the gun.
3. Be sure the gun is safe to operate.
4. Use only the correct ammunition for your gun.
5. Wear eye and ear protection as appropriate.
6. Never use alcohol or drugs before or while shooting.
7. Store guns so they are not accessible to unauthorized persons.

Be aware that certain types of guns and many shooting activities require additional safety precautions not listed above.

The first thing you should do when arriving at a new shooting range is to learn the range rules for that range.

ASK – Attitude – Skill - Knowledge

It is important to have the proper **ATTITUDE**, develop the **skills** and acquire the necessary **knowledge** to be a safe shooter. Each shooter must be in control of his/her emotions and actions at all times.

Parts of BB Gun & Air Rifle

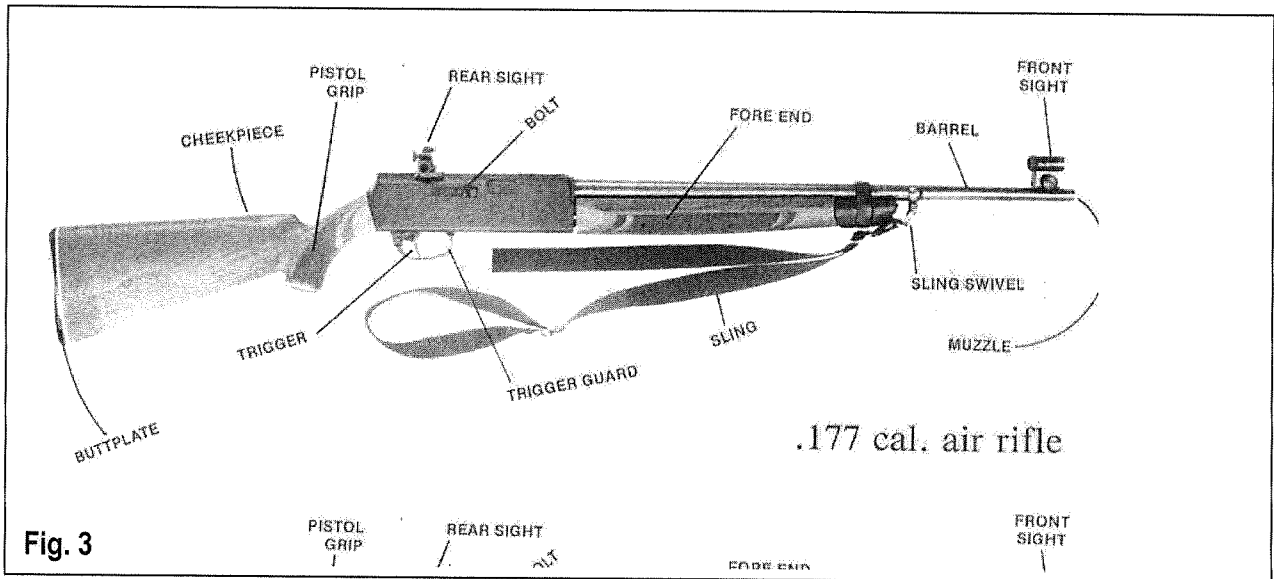
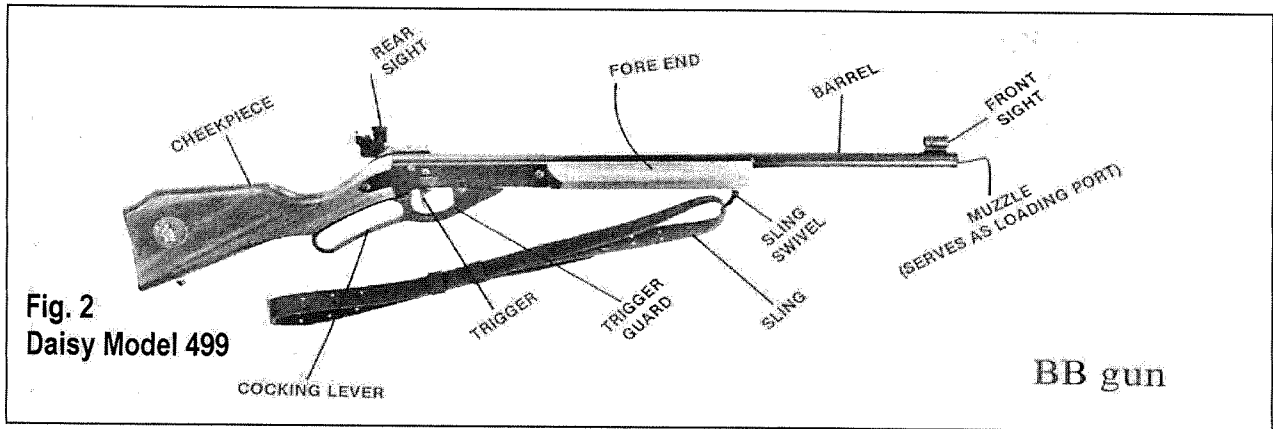
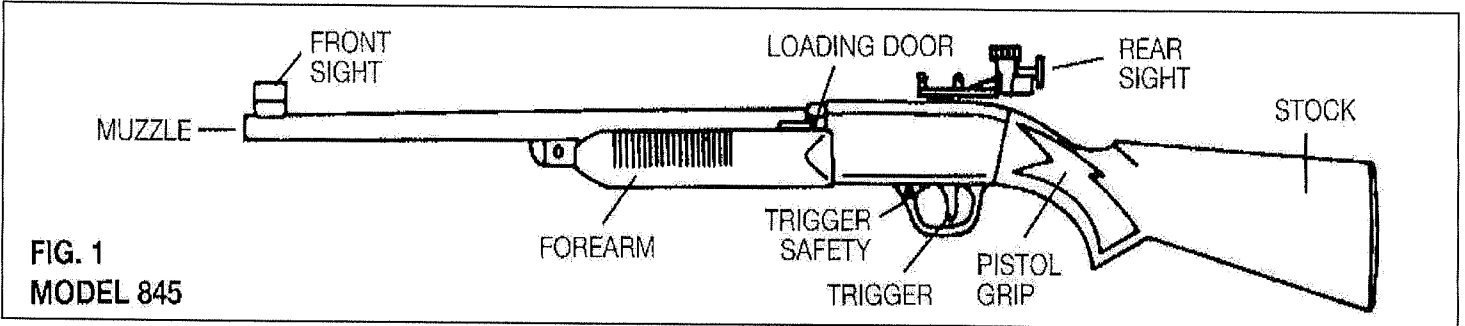


Fig. 1: Daisy Operation Manual, 840 Series Air Rifles

Fig. 2 & 3: National Rifle Association, NRA Junior Rifle Shooting, Pg. 11

Ingham County 4-H Shooting Sports Guidelines

Use 4-H Shooting Sports Rifle Manual as guide to teach requirements.

Rifle Knowledge Requirements		
	Ages 9 through 11	Ages 12 through 19
Safe Gun Handling Rules	Memorize 3 "Always" Rules.	Memorize all 10 NRA Safe Gun Handling Rules and be able to explain the importance of each.
Parts of the Rifle	Know: (Be able to point out.) Stock Butt of Stock Forearm Comb of stock Small of stock (pistol grip) Safety (mechanical device) Bolt and/or Lever Depending on gun used. Trigger Trigger Guard Rear Sight Front Sight Barrel Muzzle	Know all parts previously listed and their function. Add: Chamber Bolt/breech block Rifling Receiver Magazine
Types of Rifle Actions	Introduce types of actions they will be using - Bolt, Lever, etc.	Know all action types and their function.
Ammunition Basics	Know how they can be sure they are using the correct ammo & how to handle a misfire. Check correct ammunition: Box, barrel and Label on ammo (Except BB & pellets) Malfunctions: Hang fire. Misfire	Know how they can be sure they are using the correct ammo in all types of guns. Know the components of a .22 caliber ammunition. (casing, primer compound, powder, bullet) Know the firing sequence. Know how to safely handle a hang fire & misfire.
Types of Sights and their uses.	Introduce all types of sights.	Know all types of sights and their uses.
Dominate Eye	Know how to determine their dominate eye and what their dominate eye is - R or L. Introduce why they use their dominate eye.	Know how to determine, what their dominate eye is and why it is important to use it.
Safe Gun Handling Practical Exercise	Show they can confidently handle rifle in a safe manner at all times; using the proper attitude.	Continue
Transporting Firearms	Know and demonstrate they can properly transport firearms safely.	Continue
Shooting Fundamental Requirements		
Range Safety Rules	Know importance of eye & ear protection.	Continue
Basic Range Commands	Know Terms & who can call them - Cease Fire & Commence Firing Demonstrate that they can follow them.	Continue
Sight Alignment & Trigger Control	Introduce on bench rest. Shooting for groups/clusters	Continue developing.
Sight Picture & Breath Control	Introduce on bench rest. Shooting for groups/clusters	Continue developing.
Sight Adjustment	Introduce shooting for groups and the basics of zeroing sights to their eye.	Know how to adjust sights to zero to their eye.
Shooter's Log	Learn how to keep and the importance of using a shooters log.	Continue developing.
Self Control	Learn and demonstrate the proper knowledge, skills & attitude required to be a safe shooter.	Continue developing.
Positions		
Bench Rest Position	Shooting for groups/clusters	
Standing Position	Shooting for groups/clusters	
Sitting Position	Shooting for groups/clusters	
Kneeling Position	Shooting for groups/clusters	
Prone Position	Shooting for groups/clusters	

Ingham County 4-H Shooting Sports

Annual Rifle Project Participation Form

Shooter's Name:	4-H Age _____ Beg. Jr. Sr.
4-H Club Name:	Date Started Course:
Certified Rifle Instructor's Name:	Phone:
Equipment Used:	

Rifle Knowledge Requirements	Completion Date	Shooter's Initials	Instructor's Initials	Comments
Safe Gun Handling Rules (Any time a gun is handled.)				
Parts of the Rifle and their functions				
Types of Rifle Actions & their operations				
Ammunition Basics				
Types of Sights & their uses				
Dominate Eye Exercise				Left/Right (Circle One)
Transporting Firearms				
Safe Gun Handling Practical Exercise				
Rifle Knowledge Verification			Certified 4-H Shooting Sports Instructor Signature:	

Shooting Fundamental Requirements	Completion Date	Shooter's Initials	Instructor's Initials	Comments
Range Safety Rules (Eye & ear protection)				
Basic Range Commands (Used to control range)				
Sight Alignment & Trigger Control				
Sight Picture & Breath Control				
Sight Adjustment				
Positions:				
Bench Rest				
Standing				
Sitting				
Kneeling				
Prone				
Self Control				
Shooting Fundamental Verification			Certified 4-H Shooting Sports Instructor Signature:	

This form must be completed and signed by a Michigan 4-H Shooting Sports "Certified Rifle Instructor". The instructor must be registered with the Ingham County 4-H Office. Completed forms must be presented to fair registrar each year.

By signing this form the instructor is verifying that the above named shooter has successfully completed the "4-H Basic Rifle Course" as outlined in the National 4-H Shooting Sports Curriculum and the training provided has been in compliance with the Michigan 4-H Shooting Sports Program "Safety Practices and Policies" document.