



CANADIAN
FIREARMS
PROGRAM

CANADIAN FIREARMS SAFETY COURSE



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RCMP Headquarters
Ottawa ON K1A 0R2
Canada

Fax: 613-825-0297

PREFACE

Acknowledgements

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Disclaimer

The improper use of firearms may result in serious injury. The material presented in this Handbook is intended to demonstrate the operation of firearms in accordance with safe handling techniques and an awareness of manufacturers' specifications and safety features.

The RCMP/CFP makes no warranties whatsoever, either express or implied, oral or written, in fact or by operation of law or otherwise, regarding the safety of any firearm or the use of any safety mechanism shown in the Handbook.

Individuals should use firearms in accordance with manufacturers' specifications and contact individual manufacturers as each model features different safety mechanisms and some of the techniques demonstrated might not be appropriate for certain firearms.

Ultimately, responsibility for firearm safety rests with the individual.

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**INTRODUCTION TO THE
CANADIAN FIREARMS SAFETY COURSE**

INTRODUCTION TO THE CANADIAN FIREARMS SAFETY COURSE

Overview

The Canadian Firearms Safety Course (CFSC) is designed to apply to the broadest possible spectrum of novice firearm users. Existing firearm safety courses across Canada have a proven track record in the reduction of firearm-related incidents. However, most of these courses have been designed and delivered for firearms use in a specific activity. The CFSC is an introductory firearm safety course intended for all new firearm users.

Individuals who wish to acquire restricted firearms must also pass the Canadian Restricted Firearms Safety Course (CRFSC) tests.

The Canadian Firearms Program

The Canadian Firearms Program (CFP) is administered by the RCMP/CFP, which works with provincial CFOs and many community partners across the country in implementing the *Firearms Act* and its Regulations, and other related legislation regarding firearms.

The goal of the CFP is the safe and responsible use of firearms, and it includes a range of activities directed toward achieving that goal such as the following:

- the **licensing** of all firearm owners and businesses;
- the delivery of the **CFSCs**;
- **public education** regarding safe storage, transport and use of firearms; and
- **import and export controls**.

Licensing, registration and other Program information are recorded in the Canadian Firearms Information System, a national database that is managed by the RCMP/CFP. Certain information is available to law enforcement agencies to help them prevent and investigate firearms incidents and crime, consistent with the public safety objectives of the *Firearms Act*.

Your personal information is carefully protected by the CFP, consistent with the *Firearms Act* and its Regulations, federal and provincial privacy laws and other applicable statutes.

If you have any questions about the CFP, please contact us at the following location:

Canadian Firearms Program	
Telephone:	1-800-731-4000
Fax:	613-825-0297
E-mail:	cfp-pcaf@rcmp-grc.gc.ca
Address:	Royal Canadian Mounted Police / Canadian Firearms Program Ottawa ON K1A OR2

You can also consult the *Firearms Act* and its Regulations directly via the RCMP/CFP website.

The RCMP/CFP wishes you the best in following the CFSC for the class(es) of firearm you wish to acquire and/or possess. Please note that all CFSC instructors and examiners must be designated by the CFO for the province or territory in which you are taking the course.

Course Objectives

Firearm owners have social responsibilities. By completing this course, you will be instructed on what these responsibilities are. You will learn how to do the following:

- handle firearms and ammunition safely;
- use firearms and ammunition safely;
- comply with firearms laws;
- store non-restricted firearms and ammunition safely;
- display non-restricted firearms and ammunition safely; and
- transport non-restricted firearms and ammunition safely.

The CFSC consists of two parts. One is classroom instruction. The other is learning the material in this Handbook. There will be both written and practical examinations. Successfully passing them will demonstrate the knowledge and skills you have gained in the course. Live firing exercises, however, are not offered as part of this course.

During the course, some topics are discussed and explored several times. This will help you learn and retain the content. Leaving anything out of the course will reduce the amount you learn. This applies to all assignments, exercises or examinations given by your instructor.

The course emphasizes safe storage, display, transportation, handling and use of non-restricted firearms, but safety depends on more than just safe physical actions.

Safe handling must include greater knowledge of the firearms themselves, ammunition, and the laws and regulations related to them.

Course Handbook

Safety also relies on your attitude about responsible handling and use of firearms. Pay close attention to the section on legal, ethical and social responsibilities. Your safety and that of the people around you depends on it.

This book is an essential part of the course. The other parts are the classroom lessons and practical exercises given by the instructor. Together, they will help you learn how to safely handle firearms.

This book contains the following elements:

- the **Vital Four ACTS** of firearm safety;
- a brief history of firearms;
- information on firearms and ammunition and how they work;
- instructions on how to pick up, handle and carry non-restricted firearms safely;
- descriptions of how to unload, load and fire non-restricted firearms safely;
- descriptions of firing positions;
- instructions on range safety;
- instructions on the care and cleaning of non-restricted firearms;
- examples of factors leading to firearm incidents and the misuse of firearms;
- a summary of ethics and laws affecting firearm owners and users;
- information on how to store, display, transport and handle non-restricted firearms safely;
- a glossary of firearm terms; and
- appendices.

This is an introductory course. More information and training are available on the various shooting sports from their own qualified instructors, associations and local clubs. We recommend you contact them directly for further details.





Do not hesitate to contact provincial/territorial or local authorities for more detailed information on firearms laws and regulations in your area.

Consult the *Firearms Act* and its Regulations or a firearms officer, for information on controls affecting firearm and ammunition manufacturers, dealers and museum operators.






The Vital Four ACTS of Firearm Safety

Your instructor will refer to many different safety rules and guidelines. Time and again, the instructor will return to four basic rules. Any time you hear of an incident occurring, you can be sure at least one of these rules has been broken. These rules are known as the **Vital Four ACTS**.

The first letter of each rule becomes a letter in the acronym **ACTS**. You may want to think of these rules as acts you must carry out.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe Pointers

PROVE it safe	
	P oint the firearm in the safest available direction.
	R emove all ammunition.
	O bserve the chamber(s).
	V erify the feeding path.
	E xamine the bore for obstructions (visually or with a rod).

The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and **PROVED** it safe.

Legal Responsibilities

As a firearm owner and user, you have legal as well as social responsibilities. These responsibilities are laid out in federal, provincial/territorial and municipal laws and regulations. The table below describes a few of the regulations that come from each level of government.

Table 1. Some Legal Responsibilities of Firearm Owners/Users

Government Level	Example of Law or Regulation
<p>Federal (e.g., <i>Firearms Act</i> and its Regulations, <i>Criminal Code</i>)</p>	<ul style="list-style-type: none"> • All firearm owners need a valid firearms licence. • If you are the holder of a valid firearms licence, you must inform the RCMP/CFP within 30 days after you change your address. • Persons holding a valid Possession and Acquisition Licence (PAL) may borrow, buy, inherit or otherwise acquire the same class of firearm that he/she is licensed to own.
<p>Provincial/Territorial (e.g., <i>Game, Fish and Wildlife Acts</i>)</p>	<ul style="list-style-type: none"> • Some provinces/territories may require anyone who hunts with a non-restricted firearm to wear blaze orange clothing. • Some restrict shooting across or within a certain distance of roads or dwellings. • Some provincial/territorial laws may limit your use of motorized vehicles while hunting or shooting.
<p>Municipal/County/Local (e.g., Noise, Nuisance, Zoning, By-laws)</p>	<ul style="list-style-type: none"> • Some municipalities or counties may not allow the discharge of a firearm under any circumstances within their boundaries. • Some will regulate firing times and/or closeness to dwellings.

Other Duties of Firearm Owners/Users

- a. A firearm owner/user must also keep informed about the laws and regulations affecting the use of firearms and ammunition.
- b. Going beyond what the regulations require will increase your safety. Some suggestions are listed below:
 - Keep an inventory of your firearms. Also keep any supporting documents such as photographs and owner's manuals. Store these documents in a safe place. This will help you describe any firearm that may be stolen or lost. It will also be easier for you to find your owner's manual and records of service or repair.
 - Keep informed. Changes may occur in laws and regulations from time to time. This can happen whether at the federal, provincial/territorial or municipal level.
 - Avoid advertising about the firearms in your home. You may be inviting theft.



Every person commits an offence who, without lawful excuse, points a firearm at another person, whether the firearm is loaded or unloaded, and is:

- 1. guilty of an indictable offence and liable to imprisonment for a term not exceeding five years; or**
- 2. guilty of an offence punishable on summary conviction (a fine of \$5,000 and/or six months imprisonment).**

Reference: Subsections 87(1) and (2) of Part III of the *Criminal Code*

They may also lose their firearm, lose their licence, receive a fine, receive jail time and/or be prohibited from possessing a firearm for a period of time.



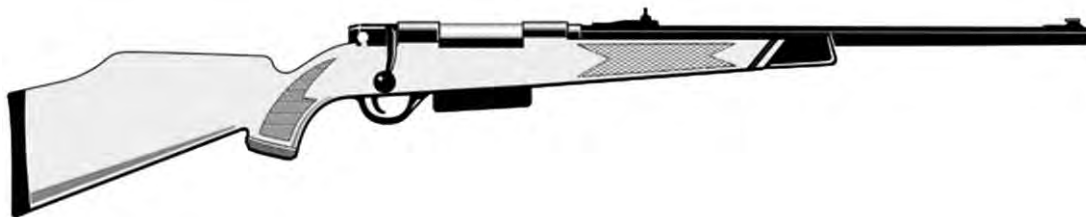
Every person who stores, displays, transports or handles any firearm in a manner contrary to the *Storage, Display, Transportation and Handling of Firearms by Individuals Regulations* is:

1. **guilty of an indictable offence and liable to imprisonment;**
 - in the case of a first offence, for a term not exceeding two years; and
 - in the case of a second or subsequent offence, for a term not exceeding five years; or
2. **guilty of an offence punishable on summary conviction (a fine of \$5,000 and/or six months imprisonment).**

Reference: Subsections 86(2) and (3) of Part III of the *Criminal Code*

Not all firearms laws are included in this Handbook. If you have any doubts about the regulations, or if you need more information, contact the following:

- The RCMP website: <http://www.rcmp-grc.gc.ca/cfp-pcaf>
- CFP at 1-800-731-4000



MODULE 1:
INTRODUCTION TO FIREARMS

MODULE 1: INTRODUCTION TO FIREARMS

1.1. The evolution of firearms

1.1.0. Overview

By all accounts and historical references, it is believed that the Chinese were the first to develop explosive powder. They used it in fireworks and rockets. It was also invented at about the same time by the English alchemist Roger Bacon (1214-1292).

1.1.1. Cannon

- People in the Middle Ages quickly learned to use black powder to launch balls or projectiles from a cannon. They did this by igniting the powder behind the ball or projectile in a cannon (Figure 1).
- The burning powder in the cannon produced rapidly expanding gas which forced the ball or projectile out of the open end of the barrel.
- Today, black powder and substitutes are used in different types of firearms and for various purposes (e.g., hunting, target shooting).

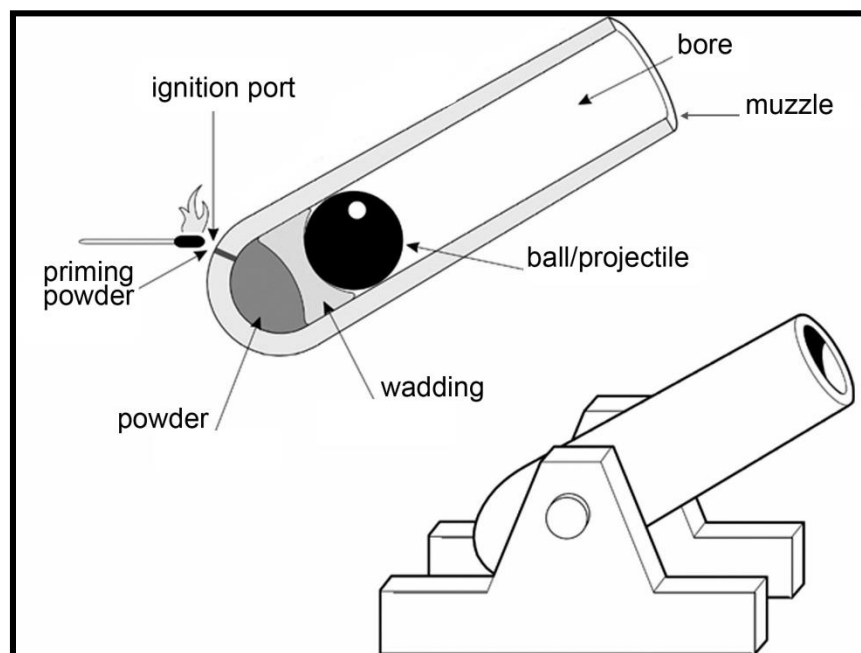


Figure 1. Cannon

1.1.2. Matchlocks

One of the earliest carried firearms was the matchlock (Figure 2). It was invented in the early 1400s. The matchlock made it possible for the user to aim and fire while holding the firearm with both hands, but rain or wind could put out the match/wick. In addition, the presence of incandescent particles near the powder could cause an incident.

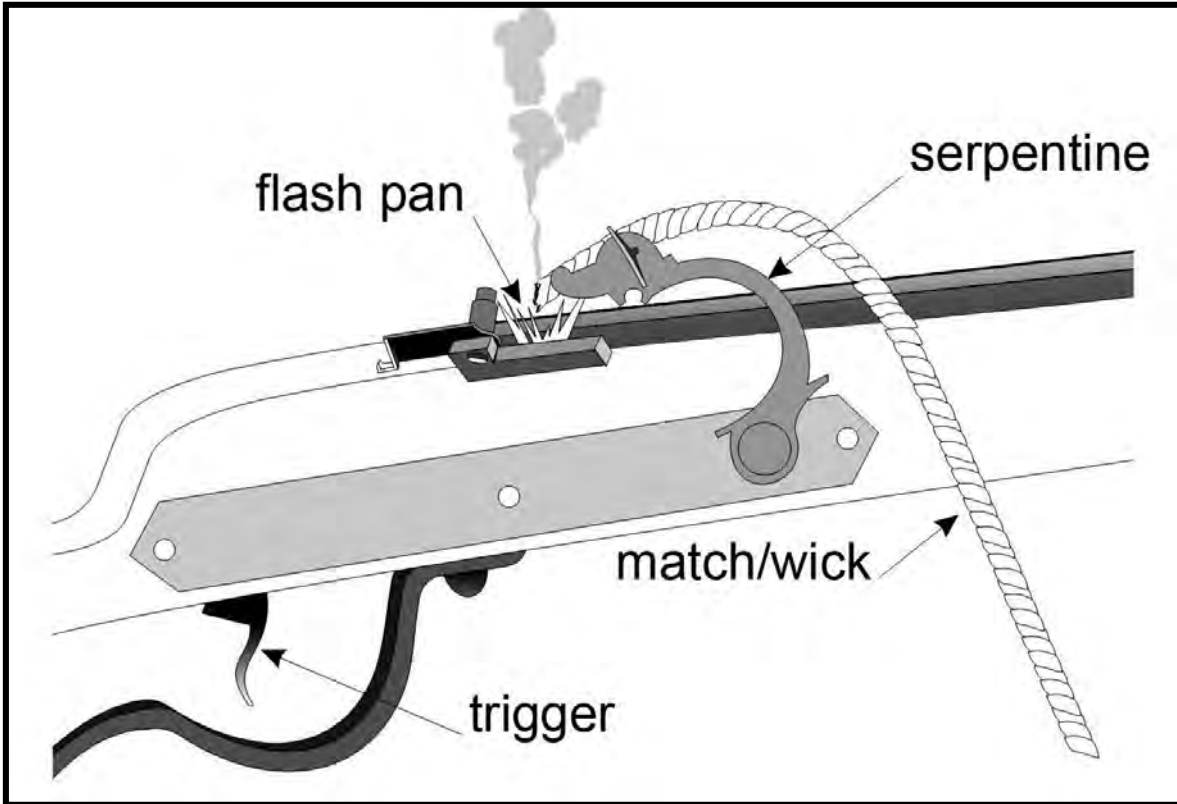


Figure 2. Matchlock Mechanism

1.1.3. Wheel locks

Two improved firing systems were developed in the 1600s. These were the wheel lock (Figure 3) and the flintlock (Figure 4). The wheel lock worked much like a modern cigarette lighter. The spring was wound up with a key. The wheel lock mechanisms were complex and expensive to make. Also, winding was slow and the spring often failed.

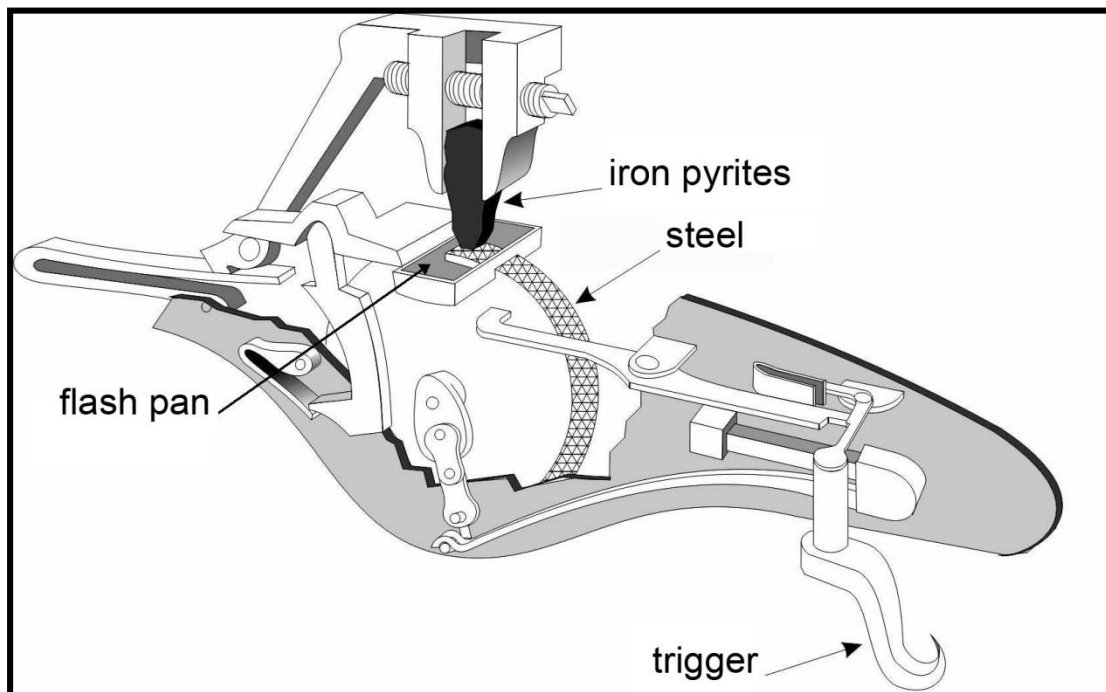


Figure 3. Wheel Lock Mechanism

1.1.4. Flintlocks

1. The flintlock (Figure 4) has an ignition mechanism similar to the wheel lock. It produced its spark by striking a flint against steel. Since it weighed less and was simpler and cheaper to make, it soon became more popular.
2. For centuries, flintlocks were the standard firearms (Figure 5). During this time, many improvements were introduced. One such improvement of the flintlock over the matchlock and wheel lock was the development of a more reliable ignition system.

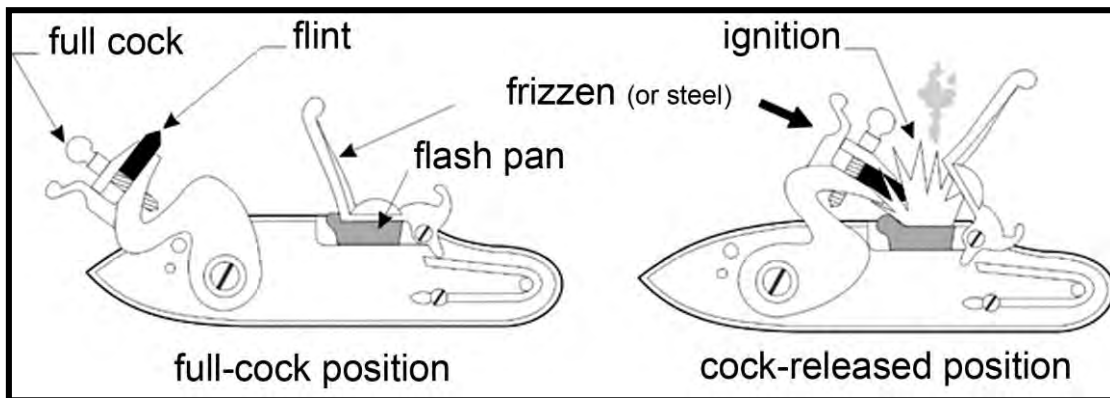


Figure 4. Flintlock Mechanism

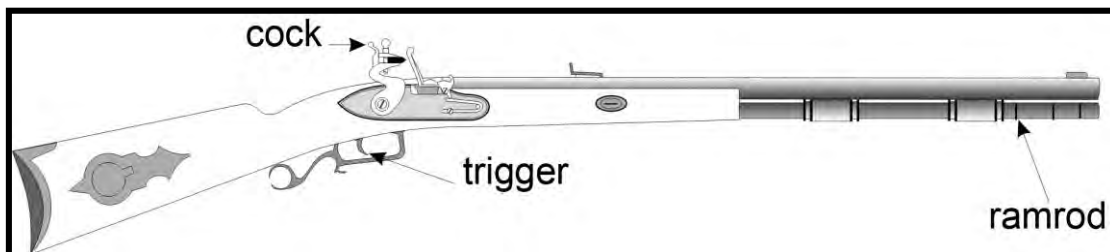


Figure 5. Flintlock Rifle

1.1.5. Percussion caps

The percussion cap (Figure 6) was developed in the early 1800s. It was a small metal case (cap) containing material that would explode when struck.

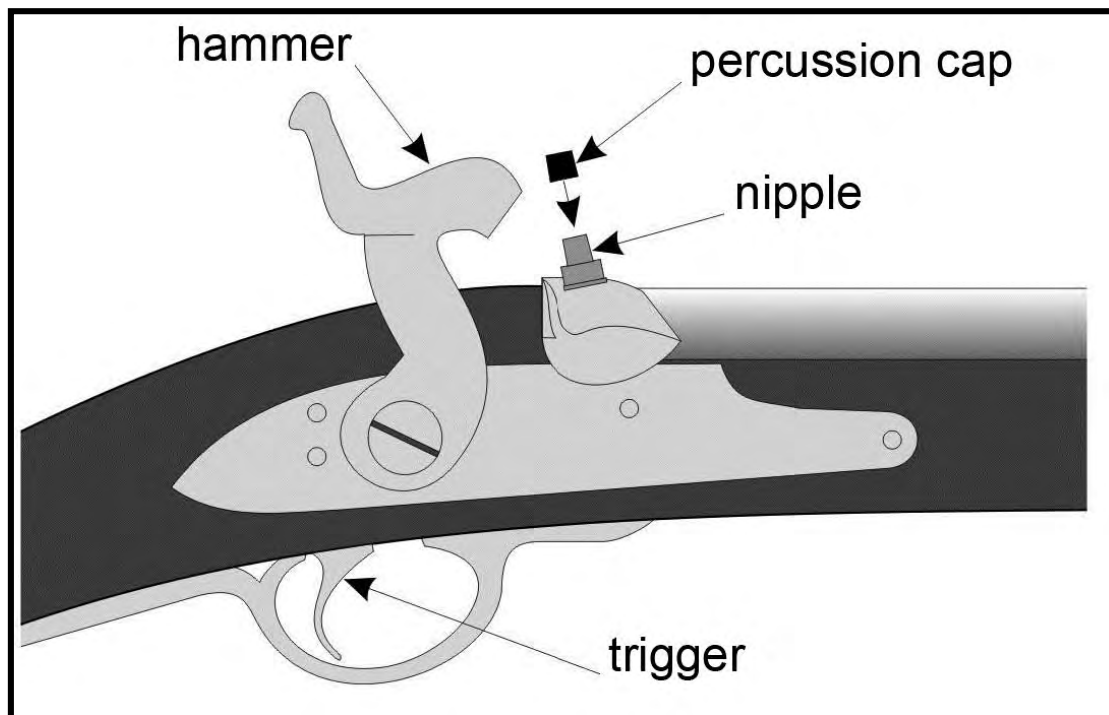


Figure 6. Percussion Cap

1.1.6. Evolution of Firearms

Table 2. Evolution of Firearms

Type (introduced)	Details ♦ Ignition System	Disadvantages
Matchlock (1400s)	<ul style="list-style-type: none"> • first hand-held muzzleloader <p style="text-align: center;">♦</p> <ul style="list-style-type: none"> • used a serpentine mechanism to plunge burning wick into the flash pan 	<ul style="list-style-type: none"> • failed in wind and rain
Wheel lock (1600s)	<ul style="list-style-type: none"> • second hand-held muzzleloader <p style="text-align: center;">♦</p> <ul style="list-style-type: none"> • operates like a modern cigarette lighter 	<ul style="list-style-type: none"> • mechanisms are complex and expensive to make • winding is slow and springs often fail
Flintlock (1600s)	<ul style="list-style-type: none"> • same as wheel lock <p style="text-align: center;">♦</p> <ul style="list-style-type: none"> • produced a spark by striking a flint against steel <p style="text-align: center;">♦</p> <ul style="list-style-type: none"> • a more reliable ignition system 	<ul style="list-style-type: none"> • flints wear out or break • springs can fail
Percussion cap (1800s)	<ul style="list-style-type: none"> • first step of the evolution to first repeating firearms <p style="text-align: center;">♦</p> <ul style="list-style-type: none"> • a small metal case (cap) containing material that will explode when struck 	<ul style="list-style-type: none"> • cap separates from powder and bullet

1.1.7. Cartridges

- a. All early firearms were muzzleloaders. They loaded through the muzzle. But muzzleloaders were slow to reload. They were also limited to one shot per barrel.
- b. Attempts were made to develop firearms that loaded from the back. They were called breechloaders. However, these early attempts failed because the expanding gases from the burning powder charge leaked back through the breech parts.
- c. In the mid-1800s, various cartridge types were developed that made breech loading practical. Eventually, metal-cased cartridges similar to modern ones were created (Figure 7).
- d. These cartridges contained the bullet or shot, the main powder charge and the primer, in one package. Pulling the firearm trigger caused the firing pin to strike the primer. The flash from the primer ignited the powder charge. The burning charge caused the cartridge casing to expand. This sealed the breech to prevent gas leakage. The expanding gas launched the projectile down the barrel.
- e. Cartridges had at least four advantages:
 - 1. They were easily loaded into the breech.
 - 2. The expanding case prevented gas leakage.
 - 3. They were largely weatherproof.
 - 4. They were more reliable.
- f. Cartridges called shells were developed for use in shotguns. These too contain one or more projectiles, powder and primer in one container. In addition, a wad separates the powder from the projectiles. The cartridge casing may be made from metals or other materials such as paper or plastic.
- g. Metallic cartridges and shotgun shells were easy to manufacture. Loading firearms also became simpler. This made repeating firearms practical.

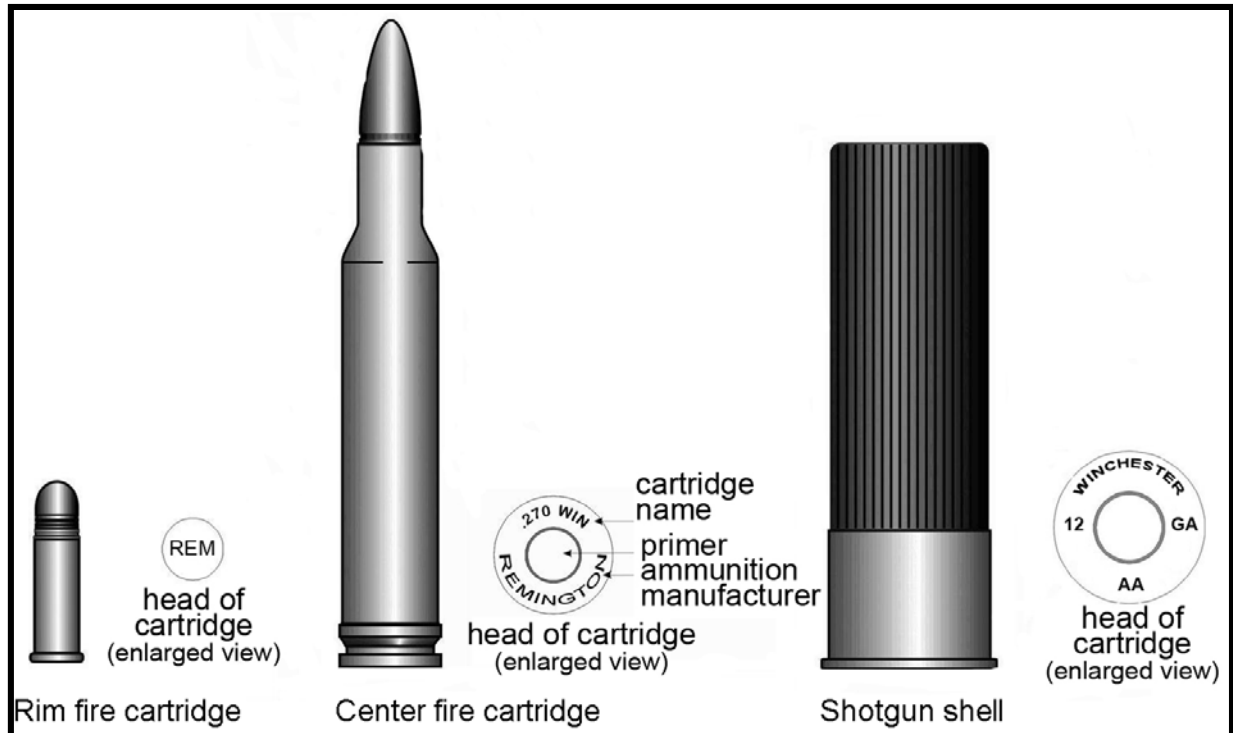


Figure 7. Examples of Modern Ammunition and Cartridge Head Stamps

1.2. Firearms in Canada

Since the 1500s, firearms have played a role in the history and development of Canada. They greatly expanded the range and effectiveness for hunting. People were willing to trade large quantities of furs for firearms and ammunition. Hunting provided a major source of food. It was often critical for survival, especially in poor crop years.

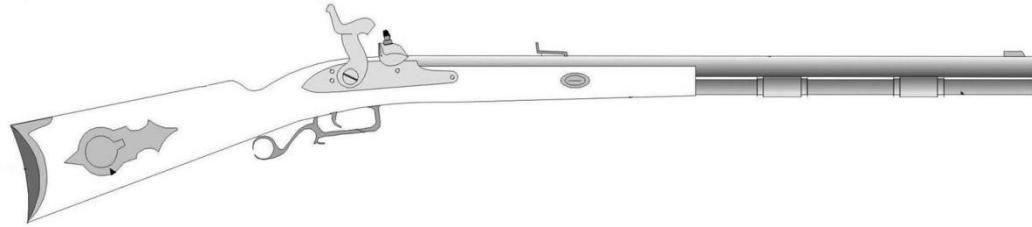
Later, the need for hunting to provide food became less necessary for most people for survival. However, many people today still rely on hunting as an important part of their lives.

Many have also turned to target shooting. Today, numerous shooting clubs and associations exist. Their members shoot various types of shotguns or rifles. A wide range of targets from clay to paper also exists.

There are also many gun collectors.

1.3. Review questions

1. List one of the advantages of modern cartridges.
2. What was the role of firearms in the development of Canada?
3. What is the role of the percussion cap in the firing sequence?
4. What is the name of the similar mechanism used in both the flintlock and the wheel lock?



MODULE 2: MUZZLELOADERS

MODULE 2: MUZZLELOADERS

2.1. Types of black powder

Table 3. Types of Black Powder

Fg	Very coarse granules of powder. Used in larger bore muskets.
FFg	Finer granules than the Fg. Used in muzzleloading shotguns, big-bore rifles and single-shot pistols of .45 calibre and up.
FFFg	Finer granules than the FFg and the most common type. Used in nearly all cap and ball revolvers.
FFFFg	The finest granules, also called priming powder. Used only in priming pans. Never use this type of powder as powder charge.



Because of advancements in technology, some firearms are manufactured to handle either smokeless, black powder or black powder substitutes. It is emphasized that all individuals follow the manufacturer's instructions regarding powder types and safe loads. Please contact your local Black Powder Association for further information.

2.2. Muzzleloading firearms

2.2.0. Overview

- a. Muzzleloading muskets, rifles and shotguns are still in use today. However, most modern muzzleloaders are reproductions of older designs (Figure 8).
- b. This type of firearm is loaded through the muzzle. A measured amount of powder is poured through the muzzle into the barrel, followed by a patch and ball, bullet or shot. A hole located at the rear of the barrel just above the trigger allows a flash or spark to enter the barrel through the priming port and ignite the powder, firing the charge.

- c. With flintlock muzzleloaders, the igniting spark is the result of the flint, held by the cock, hitting the frizzen. On percussion muzzleloaders, the flash is produced by the hammer striking a percussion cap.
- d. Muzzleloading firearms use black powder or black powder substitutes. Black powder is classified as an explosive and is easily ignited by heat, friction, static electricity or a sharp blow and must be handled with **extreme care**. It is strongly recommended that individuals interested in muzzleloading seek additional training from qualified specialists in the field.

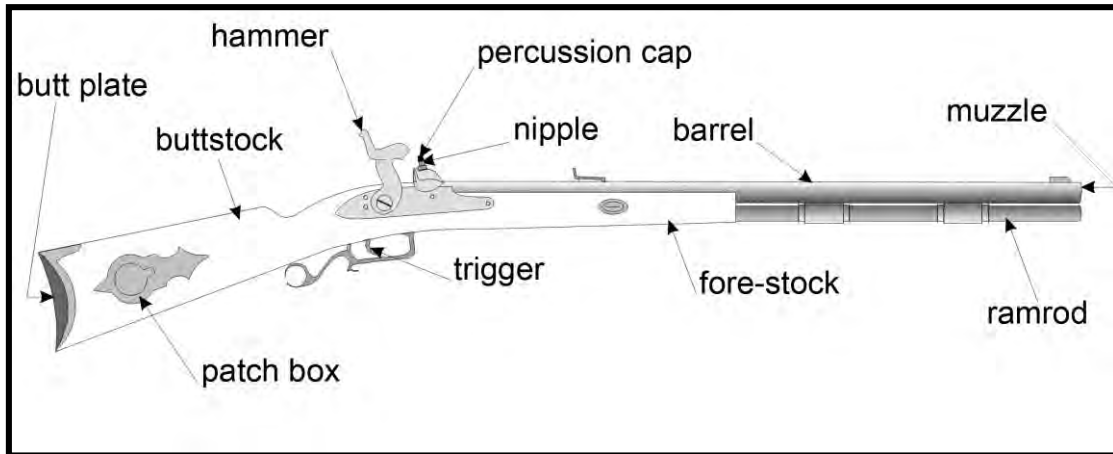


Figure 8. Muzzleloader



Older firearms should be inspected by a qualified gunsmith to be sure they can be fired safely.

2.2.1. Loading muzzleloaders

- a. Today, most firearms for black powder use are reproductions of muzzleloaders. Older firearms may not be safe to fire and should be checked by a gunsmith before use.
- b. If a muzzleloader is not primed to fire, it is safer to handle. To ensure that a muzzleloader is not primed to fire, do the following:
 1. Point the muzzle in the safest available direction and keep finger off the trigger and out of the trigger guard.
 2. Check that the hammer is **not** in full-cock position.
 3. Check for a percussion cap or see if the priming pan is primed.
 4. If the firearm is primed, remove cap or priming powder.
- c. In addition, it is difficult to tell if there is already a charge loaded into the barrel of a muzzleloader. Experienced shooters mark the firearm's ramrod at a level that shows the bore depth when the bore is empty (Figure 9). When the marked ramrod is inserted into the barrel, it shows whether or not the firearm is loaded.



For other models of muzzleloading firearms, check with the manufacturer for specific safety features and information regarding the loading and unloading process.

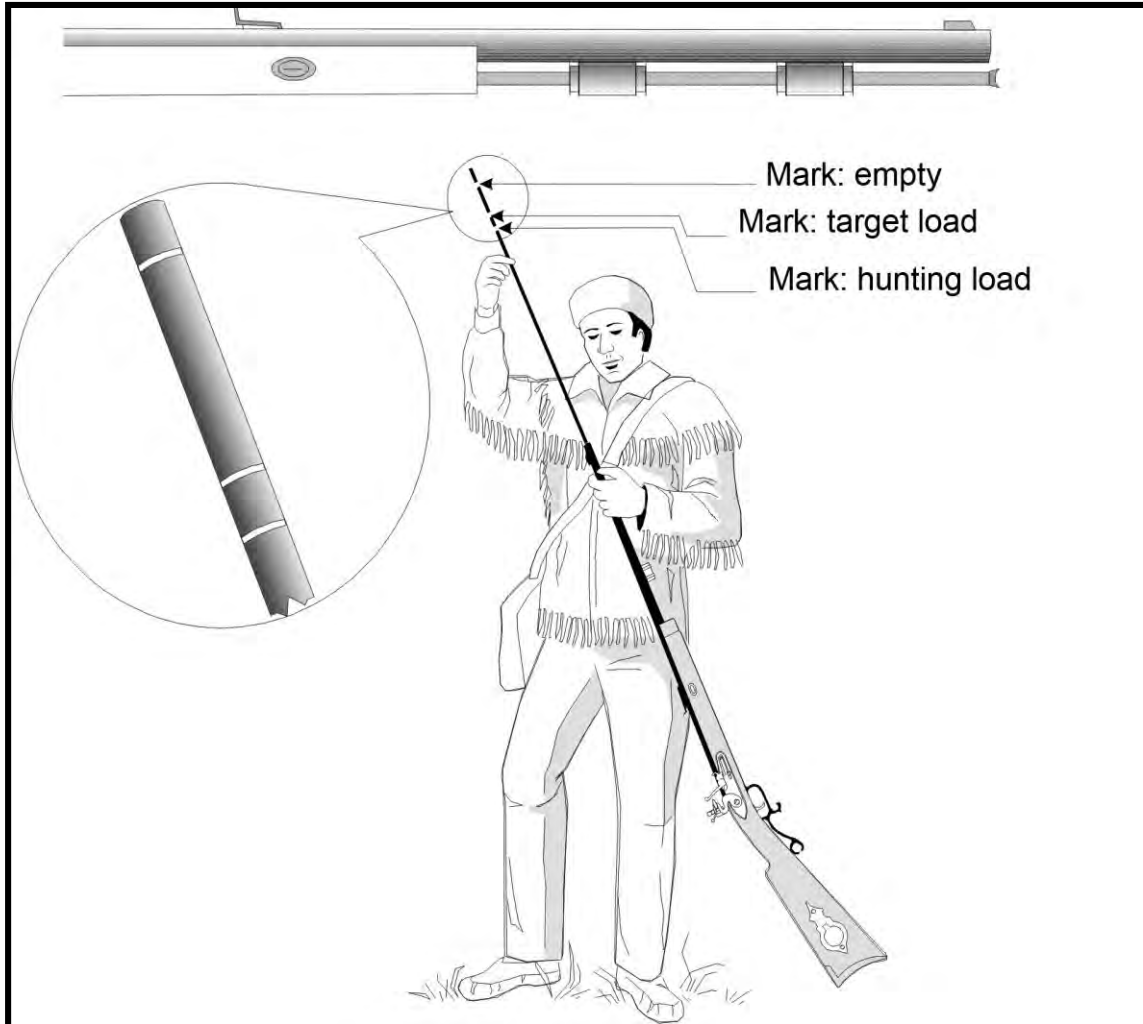


Figure 9. Correctly Marked Ramrod



In the case of muzzleloading firearms that have a safety catch, activate the safety catch before loading it. Prior to loading the firearm, use a cleaning rod with a fitted patch to check the gun bore and fire cap to ensure that nothing obstructs the chamber and gun bore. It is very important that the exact loading and unloading procedures are followed when handling muzzleloaders (Figures 10 and 11). Before attempting it, get the assistance of a qualified individual and carefully follow the instructions in your owner's manual.

CONSULT THE MANUFACTURER'S RECOMMENDATIONS.

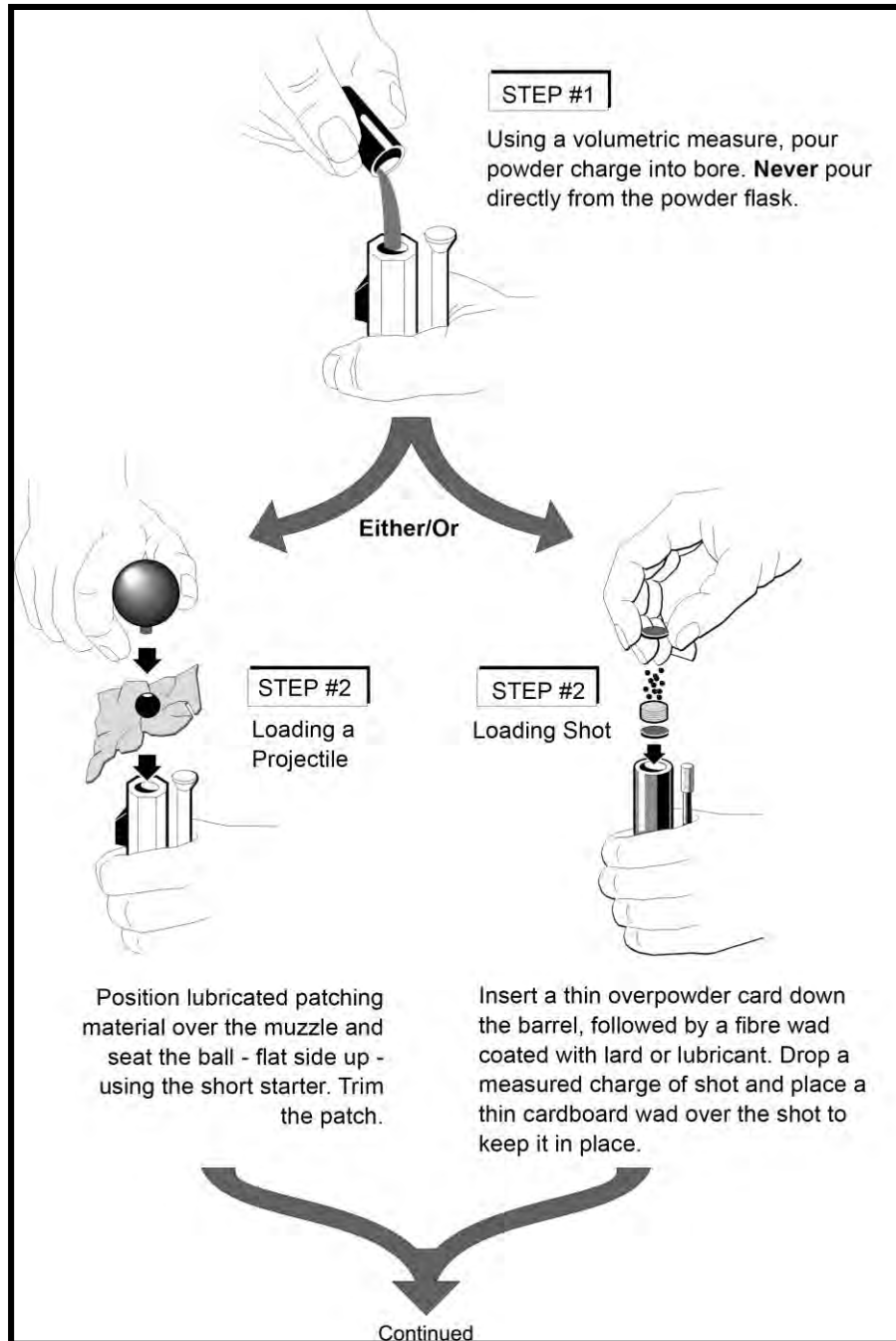


Figure 10. Loading a Muzzleloader

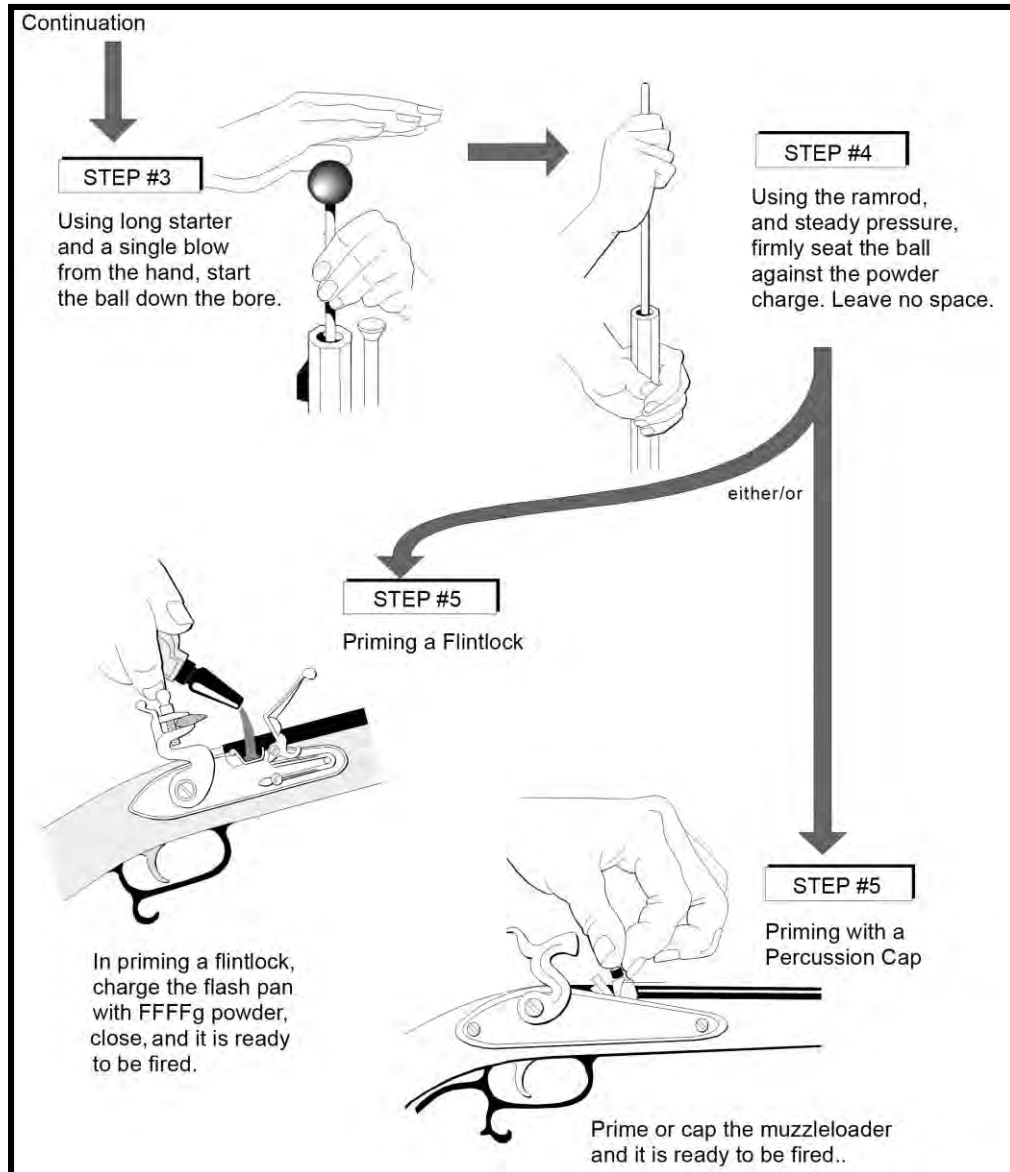


Figure 11. Loading a Muzzleloader (*cont'd*)



Always use the powder recommended for your muzzleloader. Never use smokeless powder in a muzzleloader. Never use black powder in a modern cartridge firearm not designed for it. Always use a volumetric measure to put powder into the muzzle; never pour directly from the main powder container. Under safe-storage regulations, black-powder firearms are considered loaded when powder and/or ball are in the barrel.

2.2.2 Cleaning a muzzleloader

- a. ACTS and PROVE.
- b. A black-powder firearm must be properly cleaned after every firing session. Black powder is very corrosive. It attracts moisture, which causes rust. Refer to the owner's manual.
- c. Cleaning black-powder firearms improperly can result in carbon build-up in the barrel, which may cause **coking** (carbon accumulation). This condition may cause a glowing ember to remain after firing, resulting in a dangerous situation if the firearm is reloaded.
- d. Use either commercial black powder cleaning solvent or hot, soapy water.
- e. You will also need a ramrod with a cleaning patch attached. Use a rod as close to the bore diameter as possible.
- f. Use wet patches to soften the dried powder.

2.2.3. DOs and DON'Ts of muzzleloading

- **Do** have old muzzleloading firearms dismantled, examined and declared safe by a qualified gunsmith before using them.
- **Do** handle the muzzleloader with the same respect due all firearms.
- **Do** use ONLY black powder or black powder substitutes (e.g., Pyrodex) in your muzzleloader.
- **Do** keep black powder far away from all cigarettes, matches/wicks or anything with an open flame, embers or anything that may cause sparks or heat.
- **Do** always use a powder measure to pour powder directly into the muzzle. Never use the powder horn or flask.
- **Do** carefully follow the manufacturer's recommendations for maximum powder charge.
- **Do** mark your ramrod to indicate when the barrel is empty and when it is loaded.
- **Do** wipe the bore clean of oil and excess grease **before** you load.
- **Do** make sure the ball or bullet is seated firmly on the powder charge.

- **Do** treat a misfire as a hangfire that could fire at any second. Wait at least 60 seconds with the firearm pointed in a safe direction.
- **Do** wear safety glasses and hearing protection during the firing sequence.
- **Do** reseal your second charge after firing and reloading a single barrel on a multiple-barrel black-powder firearm. Recoil can move the charge forward.
- **Don't** carry or handle a muzzleloading firearm with the hammer at full cock and primed unless you are ready to fire.
- **Don't** lean over or stand in front of the muzzle at any time.
- **Don't** load one barrel of a double-barrelled-muzzleloading shotgun unless the percussion cap on the nipple of the other barrel has been removed.
- **Don't** store a muzzleloader with powder in it.

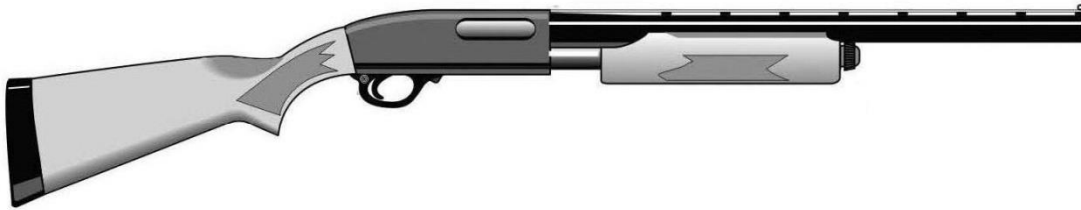
Subject to provincial/territorial regulations, loaded muzzleloading firearms **may** be carried from one hunting ground to another if the firing cap or flint is removed.



Black powder is also used in some metallic cartridges for firearms specifically designed for their use. Care should be taken. Although they have the same name as a modern smokeless cartridge, they may not be interchangeable. Never interchange smokeless powder and black powder. Use them only in firearms intended for their use.

2.3. Review questions

1. What type of powder is safe to use in muzzleloaders?
2. Is it safe to pour powder into a muzzleloader directly from a powder horn?
3. What component is used to check for a loaded chamber in a muzzleloader?
4. What is the wait time for a “hangfire” when using a muzzleloader?
5. List two items of personal protective gear that must be worn when firing a muzzleloader.
6. When do you cock the hammer during the loading and firing sequence of a muzzleloader?



MODULE 3:
MAJOR FIREARMS PARTS

MODULE 3: MAJOR FIREARMS PARTS

3.1. Major firearms parts

3.1.0. Overview

- a. To use a firearm safely, you must know its parts and understand how they work. The following is a brief introduction to the parts of a firearm. Their functions are explained in more detail in MODULE 6: OPERATING FIREARMS ACTIONS.

ACTS Assume every firearm is loaded.

- b. Modern firearms consist of three major parts: the barrel, the action and the stock (Figures 12 and 13).

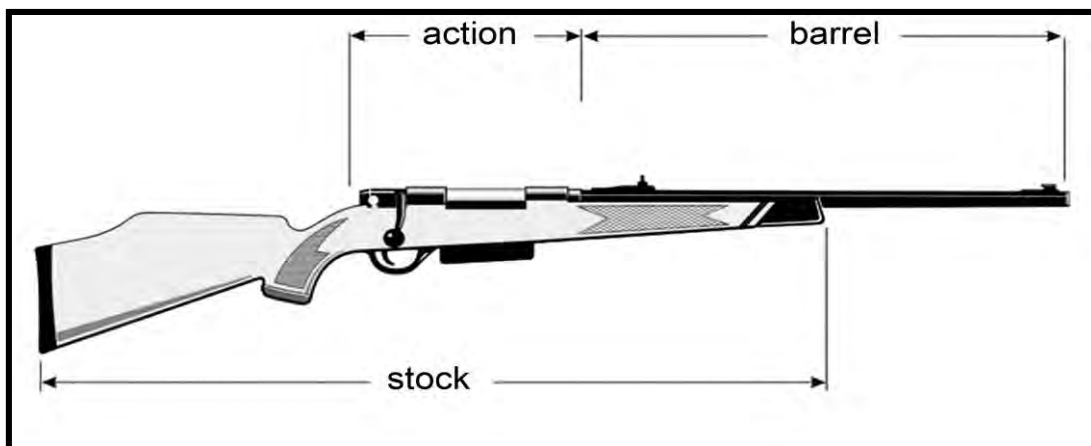


Figure 12. Bolt-action Rifle

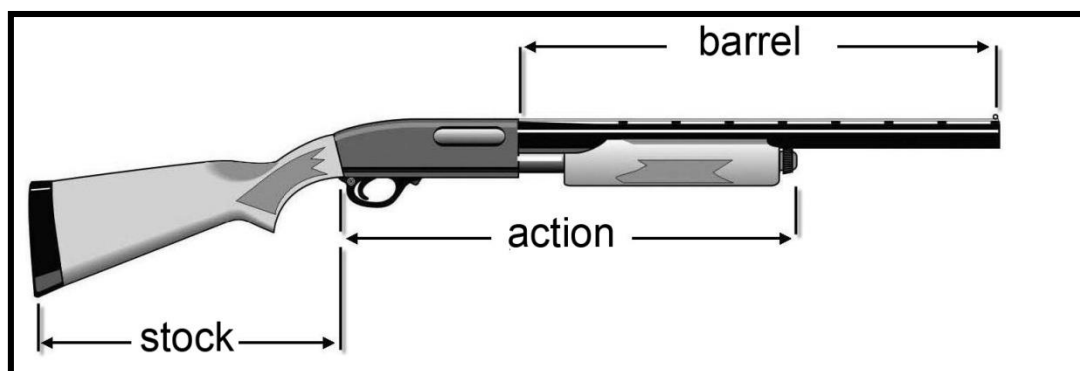


Figure 13. Pump-action Shotgun

3.1.1. Barrel

- a. The *barrel* is a tube, typically made of metal. The bullet or shot travels down this tube when the firearm is fired.
- b. Often, manufacturers identify cartridge information that is required for that firearm on the barrel—this is called the data stamp.
- c. The opening at the end of the barrel from which the bullet or shot emerges is called the muzzle.

ACTS Control the muzzle direction at all times.

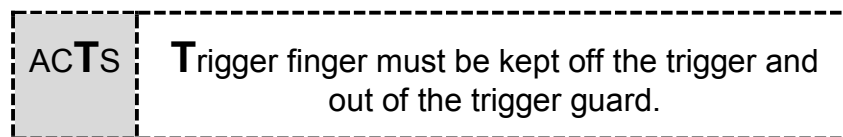
3.1.2. Action

The *action* contains the parts that do the following:

- chamber the cartridge;
- fire the ammunition; and
- eject the unfired cartridges and fired cartridge/shell casings.

3.1.3 Trigger

- a. *Triggers, safeties* and *magazines* are all parts of the action.
- b. The *trigger* releases the hammer or firing pin that fires the cartridge. The *trigger guard* is a rigid loop around the trigger made to protect it and prevent anything from unintentionally touching the trigger.



3.1.4. Safeties

- a. *Safeties* usually block some part of the action to prevent firing. Some firearms do not have safeties.
- b. The safety should be **ON / SAFETY POSITION** whenever a firearm is loaded. It should only be moved to **OFF / FIRING POSITION** when required.
- c. Some safeties may also act as decocking levers.



Never rely on the safety to prevent firing. A loaded firearm with the safety ON could still fire. All mechanical devices can fail—safeties can wear down and may not operate properly.

3.1.5. Magazine

- a. The *magazine* is a device that holds cartridges in repeating firearms. The location of the magazine depends on the make and model of the firearm.
- b. The magazine can be either fixed or removed.






3.1.6. Stock

- a. The *stock* is the handle of the firearm. Most are made of wood or a synthetic material.
- b. Stocks are designed to automatically align your finger with the trigger when you pick up the firearm. You must be ever cautious not to put your finger into the trigger guard or on the trigger of a firearm that you are picking up.

ACTS See that the firearm is unloaded – **PROVE it safe.**

3.1.7. PROVE it safe

Table 4. PROVE it safe

	P oint the firearm in the safest available direction.
	R emove all ammunition.
	O bserve the chamber.
	V erify the feeding path.
	E xamine the bore for obstructions.

The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe.

3.2. The firing sequence

Almost all modern firearms follow the same firing sequence (Figure 14):

1. A squeeze on the trigger releases the firing mechanism. This results in the firing pin striking the primer of the cartridge.
2. When struck by the firing pin, the primer explodes. This projects a flame into the cartridge body.
3. The flame from the primer ignites the powder. The powder burns and produces rapidly expanding gases.
4. The high-pressure gas drives the bullet or shot forward down the barrel.

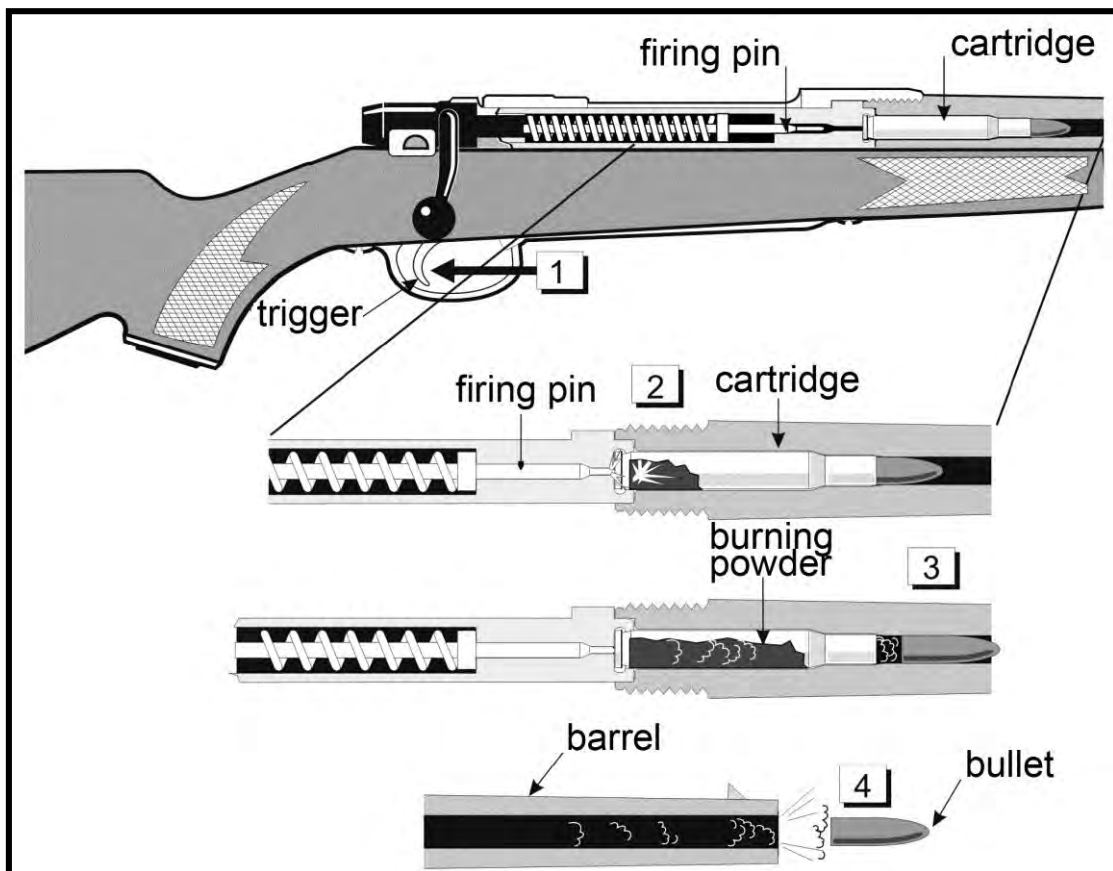


Figure 14. Firing Sequence

3.3. Action types

- a. Firearms vary in design, depending on their purpose. Some are made for target shooting. Others are used for hunting birds or small game. Still others are for hunting big game.
- b. The two common types of non-restricted firearms (long guns) are as follows:
 - shotguns; and
 - rifles.
- c. The basic types of modern actions (Figure 15) used in these firearms are as follows:
 - muzzleloader (percussion cap and flint) action;
 - hinge (or break) action;
 - bolt action;
 - lever action;
 - pump action; and
 - semi-automatic action.
- d. Some firearms have several barrels. Typically, these are shotguns or combination shotguns/rifles.

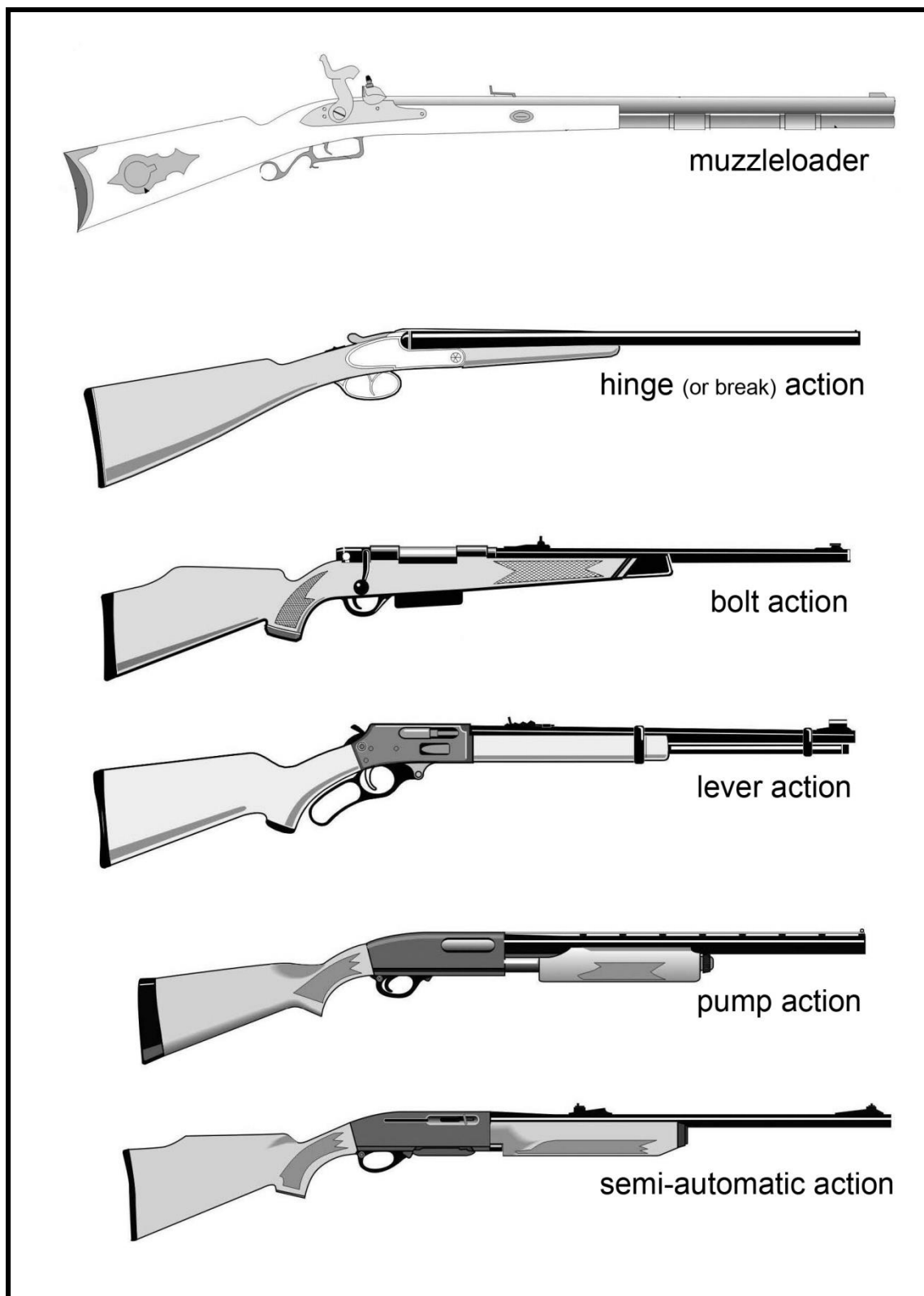


Figure 15. Action Types

3.4. Classification of firearms

- a. The classification of firearms is as follows:
 - Non-restricted;
 - Restricted; and
 - Prohibited.
- b. Legal requirements for a particular firearm depend on the class to which it belongs. Prohibited firearms are subject to the most stringent controls, restricted firearms are controlled to a lesser extent and non-restricted firearms are the least regulated of the three classes.
- c. Many air guns, due to their high power, are included in the provisions of the *Firearms Act* and its Regulations. For this reason, all air guns must be treated as firearms with respect to safe practices, such as the **Vital Four ACTS of Firearm Safety**. Some models are considered firearms and must be registered like regular firearms.



The **Vital Four ACTS of Firearm Safety** and **PROVE** apply to all classes of firearms.

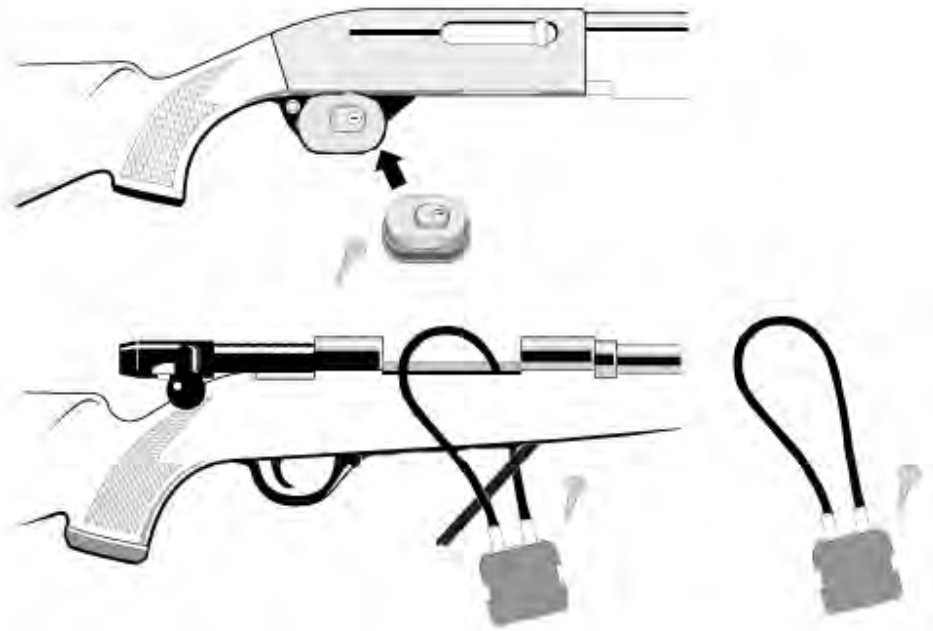
3.5. Legal responsibilities



Various laws, regulations and restrictions govern your activities as an owner/user of a firearm. They set minimum standards of conduct, and you have both a legal and a social responsibility to understand and obey them.

3.6. Review questions

1. List three major parts of a non-restricted firearm.
2. Give the meanings of “safety on” and “safety off.”
3. Explain the firing sequence of a firearm.
4. List the two common types of non-restricted firearms.
5. Identify the six basic types of non-restricted firearms actions.
6. List the three classes of firearms.
7. All air, spring or gas firearms must be treated like firearms and must apply ACTS/PROVE. True or false?



MODULE 4: BASIC FIREARM SAFETY

MODULE 4: BASIC FIREARM SAFETY

4.1. Overview

Almost all firearm incidents can be prevented by following some basic safety rules. The most important of these are the **Vital Four ACTS of Firearm Safety** (Table 5) and **PROVE it safe** (Table 6). You may want to think of these rules as acts you must carry out.





	Assume every firearm is loaded. <ul style="list-style-type: none">• Regard any firearm as a potential danger.
	Control the muzzle direction at all times. <ul style="list-style-type: none">• Identify the safest available muzzle direction.• Keep the firearm pointed in the safest available direction.• The muzzle of a firearm should not be pointed towards yourself or any other person.
	Trigger finger must be kept off the trigger and out of the trigger guard. <ul style="list-style-type: none">• Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	See that the firearm is unloaded—PROVE it safe. <ul style="list-style-type: none">• Do not handle the firearm unless you can properly PROVE it safe.• Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason.• Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

Figure 16. The Vital Four ACTS






	P oint the firearm in the safest available direction.
	R emove all ammunition.
	O bserve the chamber.
	V erify the feeding path.
	E xamine the bore for obstructions.

Figure 17. PROVE it safe

The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and **PROVED** it safe.

4.2. Basic firearm safety practices

4.2.0. Overview

While many safety practices have been incorporated into the **Firearms Act** and its Regulations, experienced firearm users often exceed those requirements by following some or all of the recommended safety practices listed in the following sections. These safety practices are summarized in Table 8 in Module 10.5. (For specific requirements on storage and transport, see MODULE 11: SAFE STORAGE, DISPLAY, TRANSPORTATION AND HANDLING OF NON-RESTRICTED FIREARMS.)

4.2.1. Firearms and ammunition safety practices

Some of the safety practices are listed below:

- All firearms and ammunition under your control are your responsibility 24 hours a day.
- Firearms are safer when stored and transported under lock and key. Examples include trigger or cable locks, and securely locked containers.
- In many cases, you are required by law to have your firearm unloaded and properly locked. Be aware of what the law says about which firearms need to be locked and when.
- Keep firearms and ammunition out of sight during transport and storage. This will reduce the chances of theft. It will also prevent unqualified or unauthorized persons from using them.
- Ammunition and firearms must be kept away from unsupervised children. Unlawful storage of firearms is a criminal offence that can lead to tragedy and serious consequences for the person found to be responsible.
- Store firearms unloaded. Lock the firearm and the ammunition separately when storing them or lock them in a secure container, receptacle or room that cannot be easily broken into.

4.2.2. Load a firearm only for actual use

Some of the safety practices are listed below:

- A firearm should be loaded only when you intend to use it and where it can be safely and legally discharged. At all other times, it should be unloaded.
- At the firing range, load a firearm only when you have reached the shooting area and you are ready to shoot. Completely unload the firearm before you leave the shooting area.
- Always make sure a firearm is unloaded before you pass it to anyone or anytime it leaves your hands. Whenever possible, leave the action open.
- Never accept a loaded firearm from anyone.
- Never run with a loaded firearm. Never climb or cross an obstacle with a loaded firearm. Never jump a ditch with a loaded firearm.
- Never toss or drop a firearm across a ditch or fence.
- Do not lean loaded firearms against a vehicle, tree or wall. They could fall over and discharge.

- Transport only unloaded firearms by vehicle or boat. Many incidents occur as firearms are being stored or removed from a vehicle. The motion of the vehicle or boat can make you stumble or drop the firearm. Either way, it can fire unintentionally if it is loaded.
- Always unload a firearm before transport or storage. This prevents unintentional discharge if the firearm is bumped during transport. It also reduces the chances of unexpected firing by an unqualified user.

4.2.3. Be sure before you shoot

Some of the safety practices are listed below:



Always use your firearm in the safest manner possible. Be sure of your target and beyond before you shoot.

- **Always examine the bore for obstructions before loading.**
- **Always check that you are using the right ammunition. Use only the ammunition for which the firearm was designed. Carry only the type of ammunition you intend to shoot.**
- **Never rely on the firearm's safety. Safeties wear down and may not work properly. A loaded firearm may fire even with the safety on. All mechanical devices can fail.**

4.2.4. Be sure of your target and beyond

- a. To be sure of your target and beyond, follow the recommendations below:
 - Positively identify your target. Make sure it is exactly what you want to shoot.
 - Do not shoot when in doubt. Never fire at a movement, a colour, a sound or a shape.
 - Check that you have a clear field of fire.
 - Check that the area behind your target is safe before shooting.
 - Never use a scope as a substitute for binoculars to identify persons, animals or objects.
- b. Always be aware of where your bullet or shot may end up. This is your responsibility. A bullet or shot may ricochet. It may also travel far beyond the target. If you are unsure, check the following recommendations:

- Never shoot if your bullet may hit a hard surface or water. Both can cause a bullet or fragments to ricochet in unsafe directions.
- Never shoot at a target near a building.
- Never shoot at a target on top of a hill.
- Only shoot when you are sure no one is ahead of you.

4.3. Secure locking devices

- a. Secure locking devices (Figure 18) prevent a firearm from being fired. To work effectively, they must be installed properly. Please note that not all secure locking devices are compatible with each firearm.
- b. In some cases, they are required by law (MODULE 11: SAFE STORAGE, DISPLAY, TRANSPORTATION AND HANDLING OF NON-RESTRICTED FIREARMS). Several devices are available for this purpose. The most common are key and combination trigger locks, and chain or cable locks. All of these locks block operation. Check with a firearms dealer for a locking device best suited for your specific firearm.

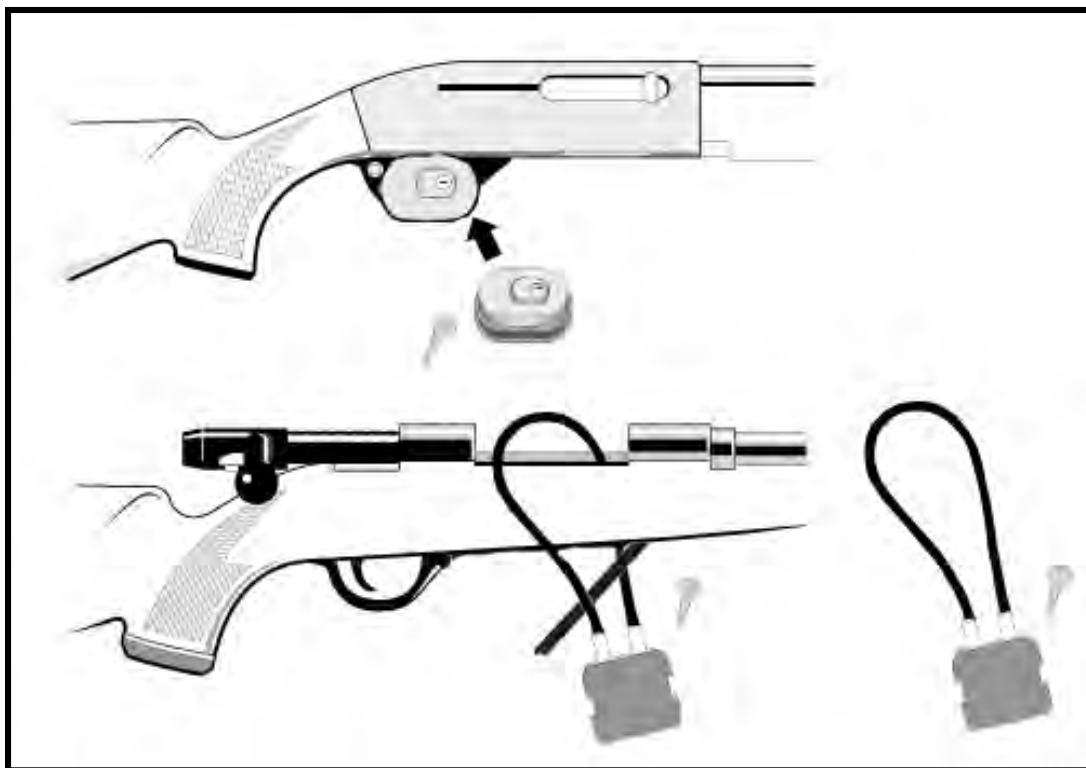
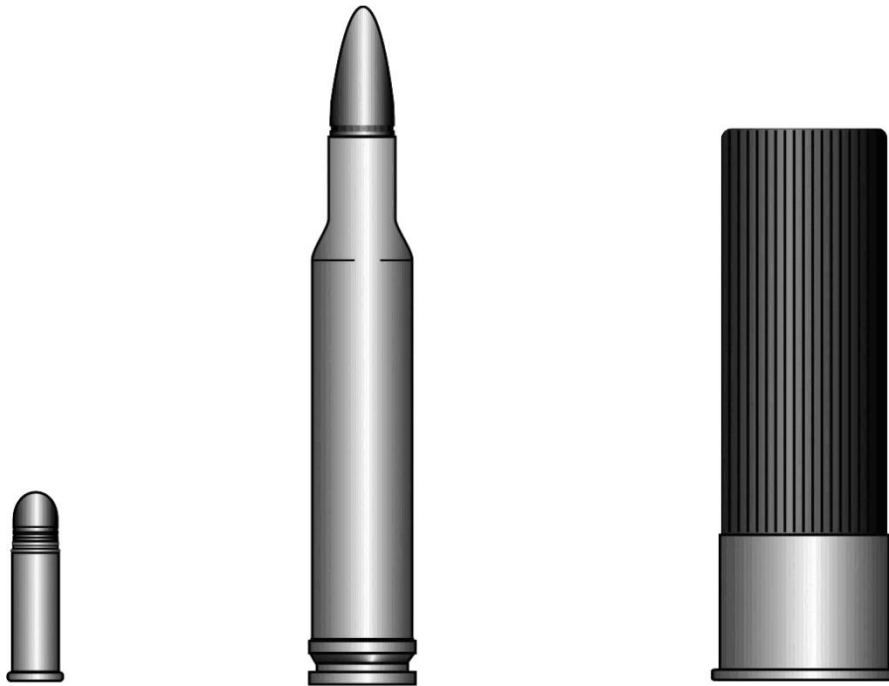


Figure 18. Various Firearm Locking Devices

4.4. Review questions

1. Describe four situations that constitute a dangerous background when shooting.
2. Should you use a scope to glass the terrain, locate and identify your target?
3. Can the safety mechanism on your firearm be relied upon?
4. Is it safe to accept a loaded firearm from a friend?
5. Is it best practice for three friends with different calibre rifles to transport their ammunition on the dash of a pickup truck?



**MODULE 5:
AMMUNITION**

MODULE 5: AMMUNITION

5.0. Overview

This module discusses rifle cartridges and shotgun shells. This will help you choose the right ammunition. You should only carry ammunition that suits the firearm that you are using and the target that you intend to shoot. This applies whether you are hunting or target shooting.

For more detailed information, consult a firearms vendor or a gunsmith.

5.1. Rifling

- a. Rifled barrels have a series of spiral grooves inside the barrel. The ridges of metal between the grooves are called lands. The lands and grooves together make up the rifling (Figure 19).
- b. Rifling makes the bullet spin as it leaves the barrel so that it will be stable in flight, thus making the bullet more accurate.

5.2. Calibre

- a. Rifled firearms are sized by calibre. A calibre is a measurement of bore diameter in either thousands of an inch (Imperial) or in millimetres (Metric). Inch dimensions are usually measured from land to land, while metric dimensions are measured from groove to groove.



Always consult the data stamp on the barrel of your firearm to find out the exact name of the ammunition that fits it.

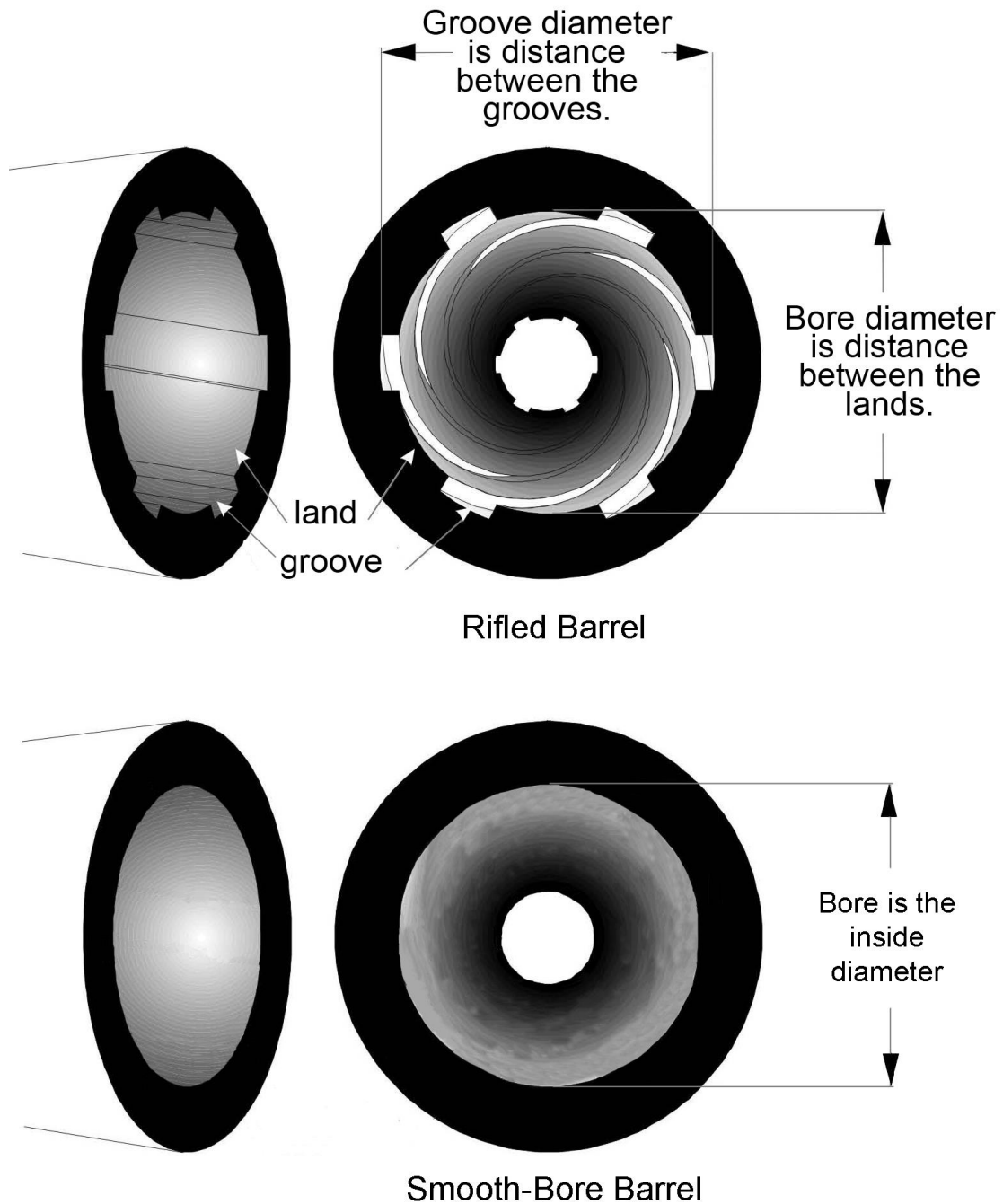


Figure 19. Rifled Bore and Smooth Bore

5.3. Cartridges

5.3.0. Overview

- a. A cartridge is the ammunition used in a rifle or a handgun. Two kinds of cartridges commonly available are: rim-fire and centre-fire. These terms describe where the primer is located at the base of the cartridge casing. They also describe where the firing pin strikes (Figure 18).

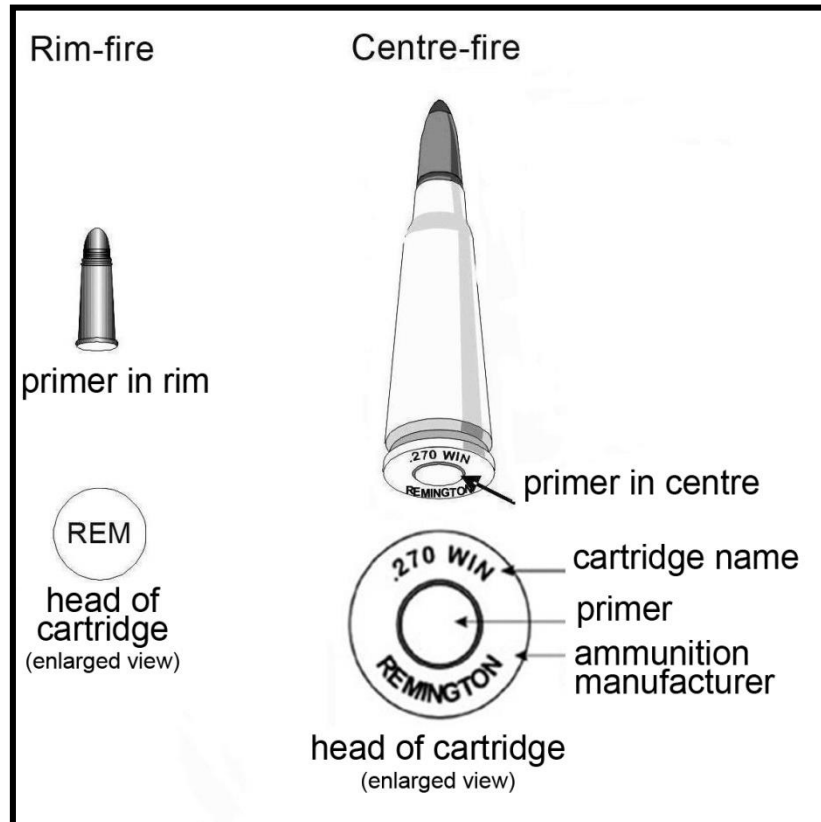


Figure 20. Examples of a Rim-fire and a Centre-fire Cartridge with Head Stamp

- b. Manufacturers produce firearms of many calibres. **Always make sure the cartridge name on the “head stamp” matches the information on the data stamp**, if available, on the barrel of the firearm (Figure 20). This is the most important point to remember when selecting ammunition. Then, choose the right type of ammunition for your firearm and target. The right shape or weight of the bullet is an example. If in doubt, consult a firearms or ammunition vendor.
- c. If there is no data stamp, take the firearm to a qualified individual. They can measure the chamber and advise on proper ammunition.

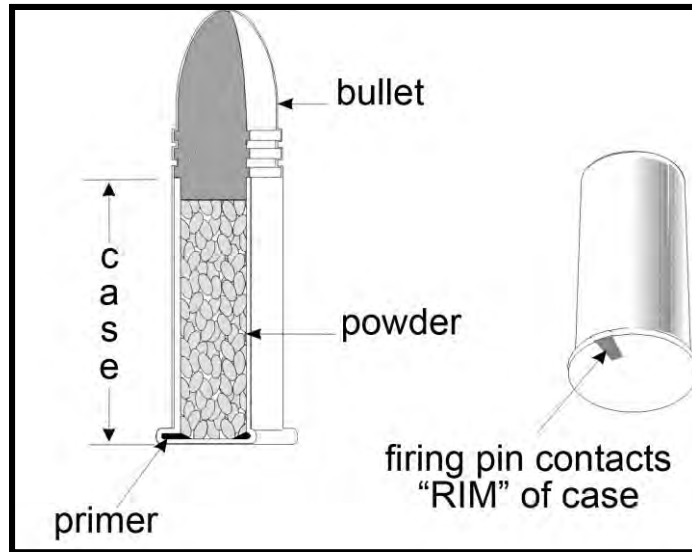


Figure 21. Rim-fire Cartridge

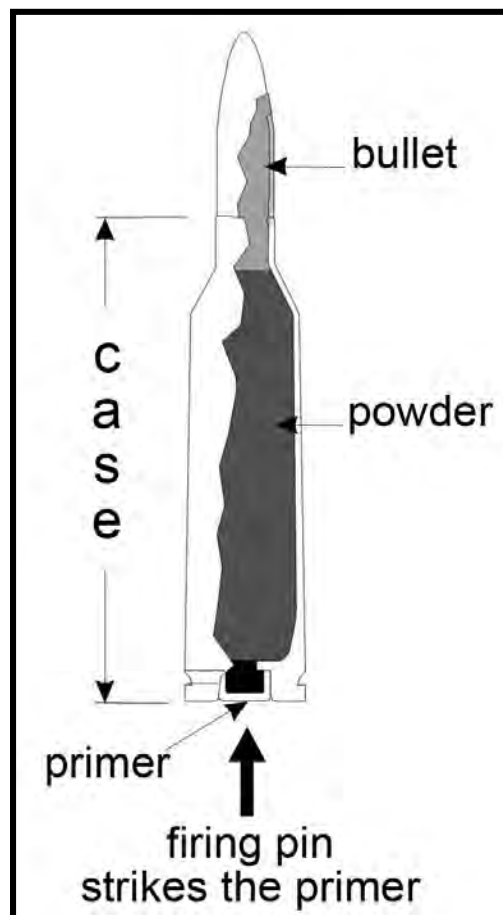


Figure 22. Centre-fire Cartridge

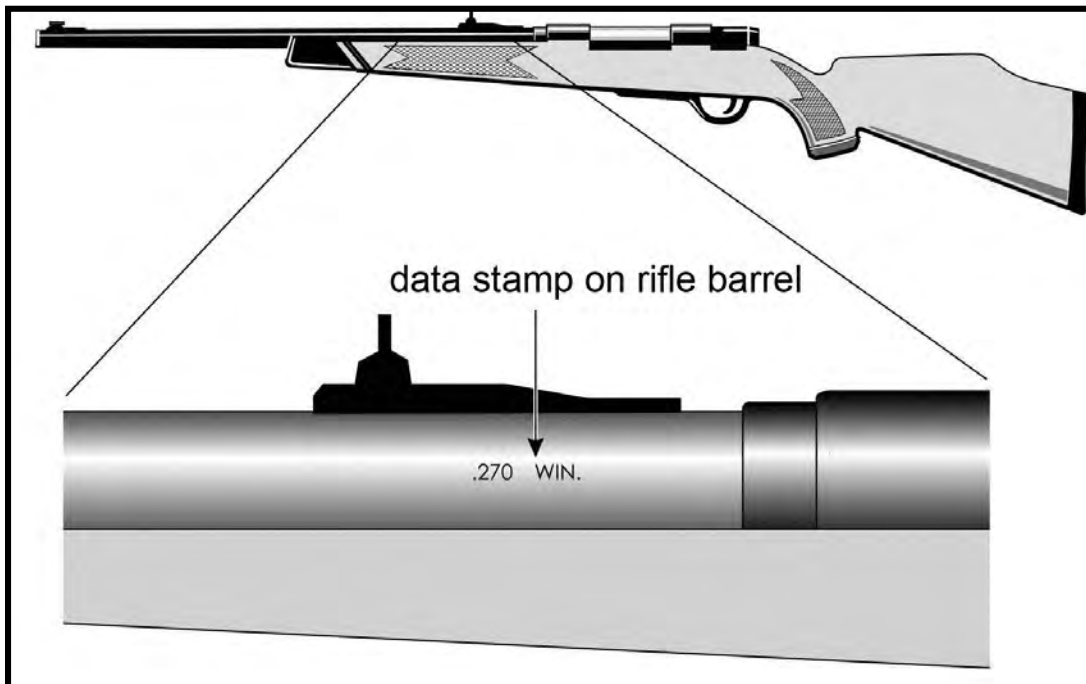


Figure 23. Example of a Barrel Data Stamp



Use caution when purchasing used firearms. Some firearms may not have a data stamp, or they may have an incorrect stamp. Some firearms may have been altered and the existing data stamp may be incorrect. They should be checked by a qualified individual before use.


If you are reloading your own ammunition, you must strictly follow the instructions and procedures outlined in the manuals provided for this process. Visually inspect all cartridge components for defects before loading.

- d. Many firearm owners load their own centre-fire ammunition. This allows them to save money and create a high-quality product made specifically for their firearm and shooting conditions. If you load your own ammunition, you must rigorously follow the instructions and procedures indicated in the relating manuals.
- e. Incorrectly loaded ammunition may cause the firearm to malfunction or jam. Malfunctions could lead to an incident. The firearm could explode and injure the shooter. Do not accept or use reloaded cartridges unless you know that they were made and reloaded correctly.

5.3.1. Cartridge components and materials

Ammunition varies in size, appearance and materials. Ammunition cartridges for rifles are made up of the four basic components described below (Figure 24).

Table 5. Cartridge Components and Materials

 <p>centre-fire cartridge</p> <p>bullet</p> <p>case</p> <p>powder</p> <p>primer</p> <p>bullet</p> <p>powder</p> <p>case</p> <p>primer</p> <p>Figure 24. Centre-fire Bullet, Powder Charge, Case and Primer</p>	<ol style="list-style-type: none"> 1. The bullet is the projectile at the front end of the cartridge. It is propelled from the firearm when the powder burns. Usually, the bullet is made of lead, lead alloy or other dense material. It may also be covered by a jacket of a harder metal. When the nose of the bullet is covered in this manner, it may be referred to as a full-metal jacket, hard point or ball ammunition. If the lead is exposed at the front of the bullet, it is referred to as a jacketed soft point. Copper, gilding metal or steel are commonly used as jacket material. <ul style="list-style-type: none"> • Bullets come in a variety of sizes, shapes and weights (Figure 25). You must select the right combination for the target or the area where you plan to shoot. • Bullets for hunting often have a soft or hollow point. They are designed to expand on impact. This uses up most of the energy on the target. • Target bullets are often made from lead alloy. 2. The powder charge is a chemical compound inside the case. It is ignited to propel the bullet through the barrel. 3. The case holds all the other ammunition parts. It is usually made of brass. It could also be made of steel, copper, aluminum, or plastic in the case of shotgun shells. 4. The primer works in much the same way as a cap in a toy pistol. It contains a chemical mixture that explodes when the firing pin strikes it. This explosion ignites the powder charge.
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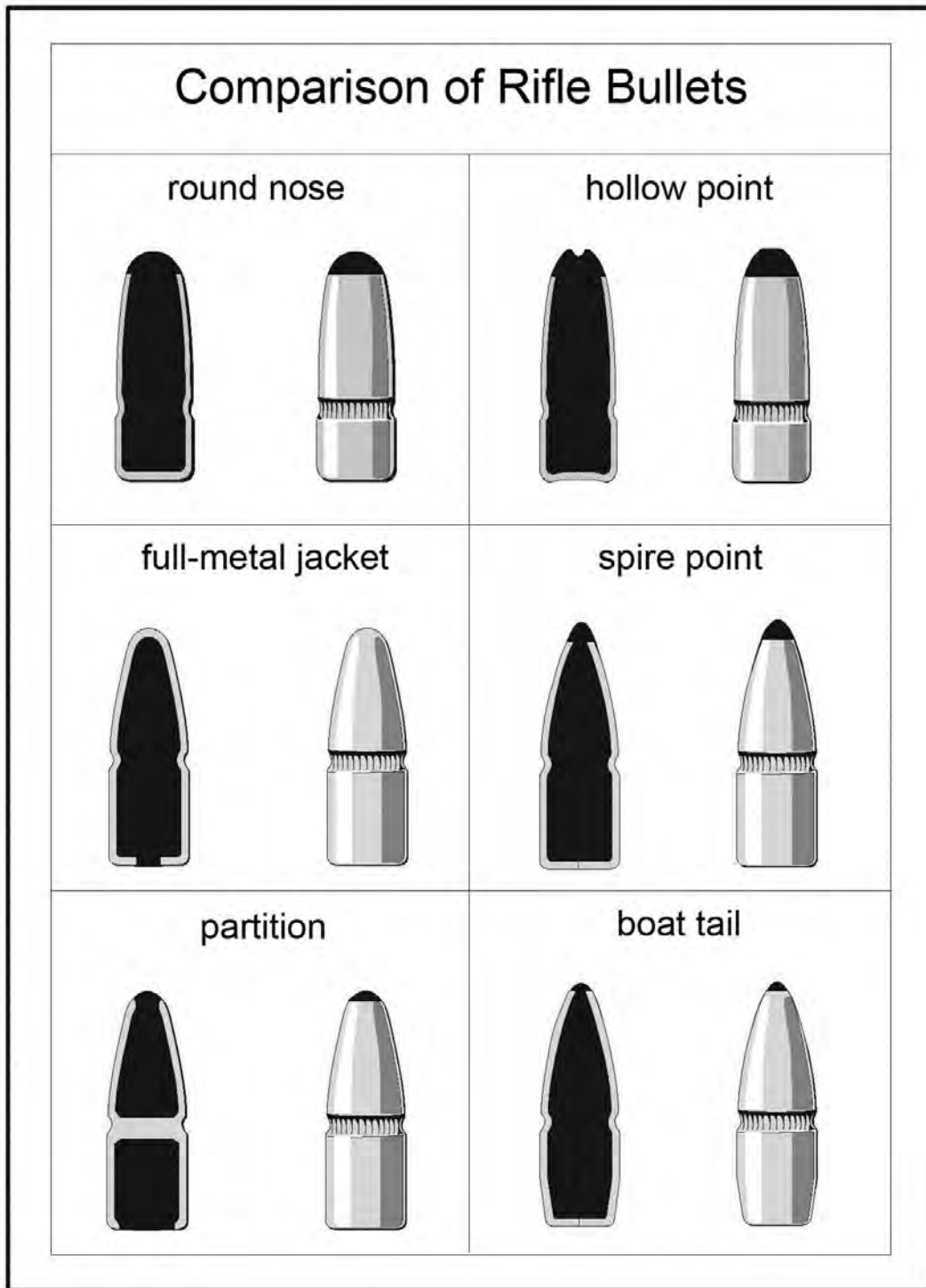


Figure 25. Comparison of Rifle Bullets

5.3.2. Types of cartridges

There are two basic types of modern cartridges: rim-fire and centre-fire.

- a. **Rim-fire** ammunition's priming chemical fills the space inside the bottom rim of a thin brass or copper cartridge casing. The soft rim dents when struck by the firing pin. This crushes the priming compound. It explodes, and this ignites the powder (Figure 21).
 - Popular modern rim-fire cartridges are .22 calibre or .17HMR. The most common is the .22 cartridge. It is available in BB, short and long rifle; however, it is not interchangeable with the .22 magnum cartridge. Be sure to use the correct ammunition for your specific firearm.
 - Rim-fire cartridge bullets generally are made of lead. They are lubricated with grease or special waxes that reduce the build-up of lead in the rifle barrel. In some cases they can be encapsulated in copper that's a full-metal jacket (i.e., .17HMR).



Dry firing any firearm can damage the firearm. Dry firing means to initiate the firing sequence without a cartridge in the chamber.

- b. **Centre-fire** ammunition (Figure 22) is used for higher power firearms. The primer is located at the centre of the base of the cartridge case. The firing pin strikes the primer. This explodes the priming compound. This in turn ignites the powder charge.

5.3.3. Cartridge names

- a. There are various ways of identifying or “naming” cartridges. Some cartridges have several names. The cartridge name, or an abbreviation of it, is stamped on the head of the case. It is also found printed on the ammunition manufacturer’s box (Figure 26).
- b. Historically, cartridge names contained their approximate calibres. Calibre refers to the diameter of the bore. Calibre may be measured in thousands of an inch or in metric.
- c. Currently, modern firearms include the length of the cartridge casing in the description of the cartridge to identify the name of the ammunition that the firearm is designed to use. This is done to tell the difference between cartridges having the same calibre but different cartridge casings. **For example, cartridges with different names are not interchangeable (.303 Savage and .303 British, 7-mm Mauser and 7-mm Remington Magnum, .300 Savage and .300 Win Mag).**
- d. A manufacturer may choose to make a firearm or ammunition in a cartridge originally made by another manufacturer, and as a result, confusion can occur. For example, you can use a Remington rifle to fire a .300 Winchester Magnum cartridge made by the Federal Cartridge Company.
- e. The head stamp includes very valuable information, such as the cartridge name. It may also tell you the following:
 - the calibre
 - the manufacturer; and
 - Whether the ammunition is regular or magnum and any other relevant details.
- f. Always read the cartridge name. It is the only way to be sure that the cartridge matches the firearm. If in doubt, check with a gunsmith or gun shop.
- g. The term magnum comes from the description of a large bottle of wine. It was first applied to large bottleneck cartridges that produced greater power than was the normal standard for that calibre. Today, it is more a marketing term than a technical term, but is an important part of the name.



Some ammunition may not have a cartridge name head stamp, such as rim-fire cartridges. Also, some privately reloaded ammunition may no longer match the original stamp. Whenever possible, refer to the information on the ammunition box. If in doubt, have any such ammunition checked by a qualified individual before you use it.

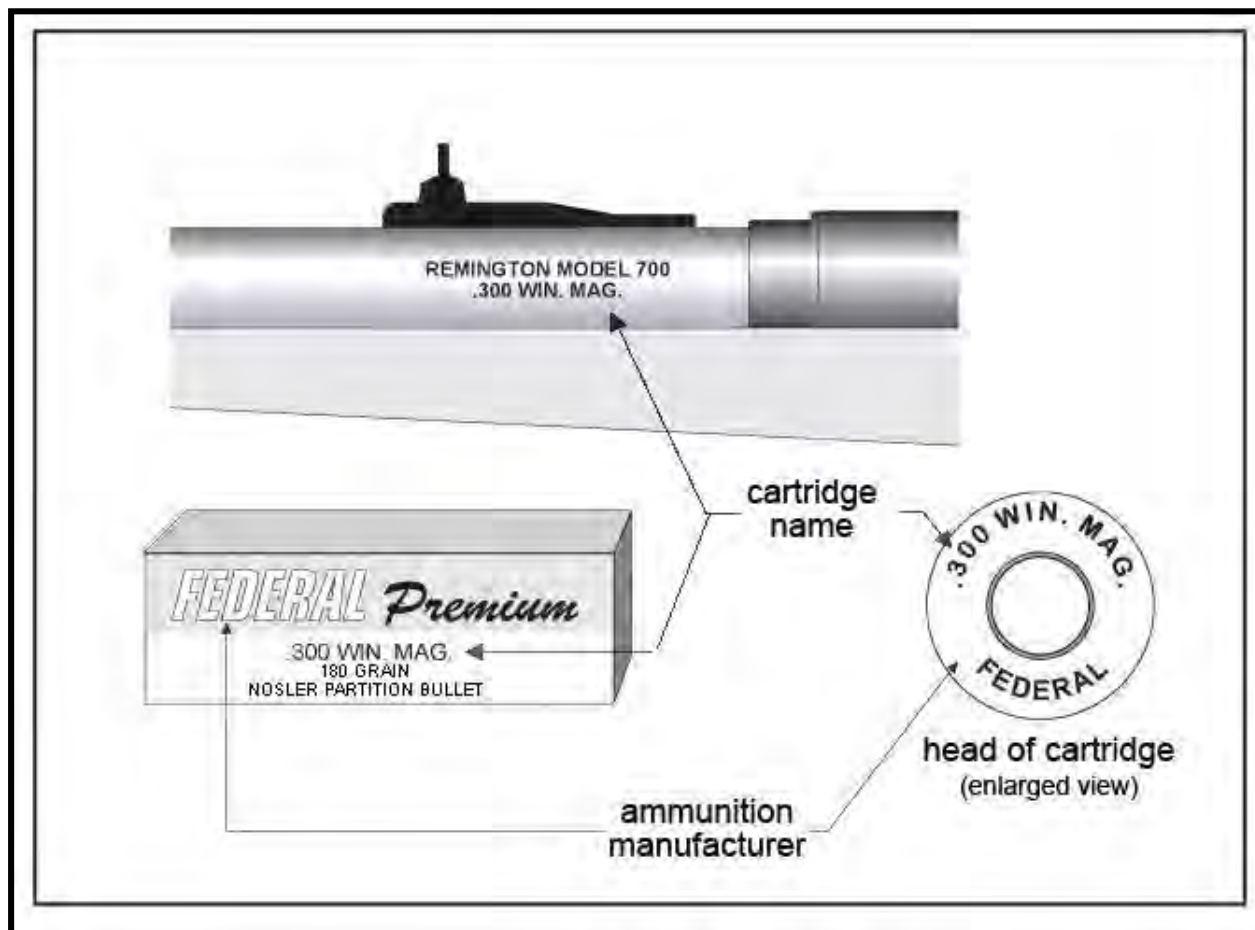


Figure 26. Data Stamp on Rifle Barrel

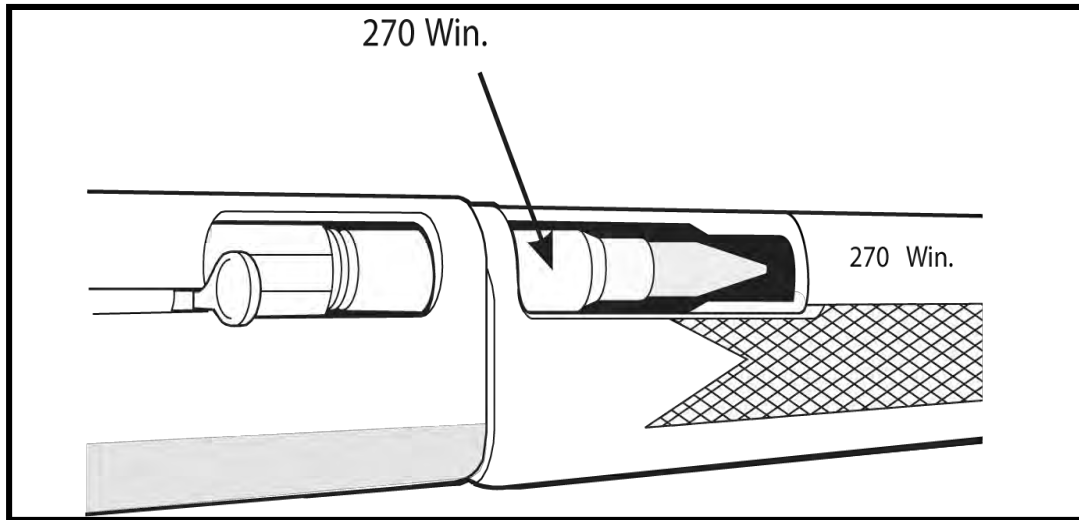


Figure 27. Cut-away of Ammunition Being Chambered in a Barrel

5.4. Shotgun barrels

- a. The use of smooth slugs, rifled slugs, and slugs contained in a sabot or plastic sleeve, is becoming more common in modern shotguns (Figure 28). This allows shotguns to fire single projectiles (bullets).
- b. Some shotguns were manufactured with adjustable chokes. Modern shotguns are made with interchangeable choke tubes. On these models, the choke can be changed simply by unscrewing a removable tube at the muzzle of the barrel and replacing it with another tube with a different choke.
- c. A shotgun with interchangeable chokes or barrels can be used for skeet or clay target shooting, migratory waterfowl, upland game birds and large game hunting, depending on the ammunition used and the regulations in the area.
- d. The rifled barrel is becoming popular. The rifled barrel provides the options of using a smooth slug, a rifled slug or a sabot slug. The rifled barrel is designed to make the projectiles spin as they leave the muzzle. This makes them more like a normal rifle bullet, increasing accuracy and useful distance.
- e. Rifled shotgun barrels are identical to a normal rifle barrel except that they have the bore diameter of the gauge of the shotgun. This has resulted in better accuracy and new uses for shotguns.

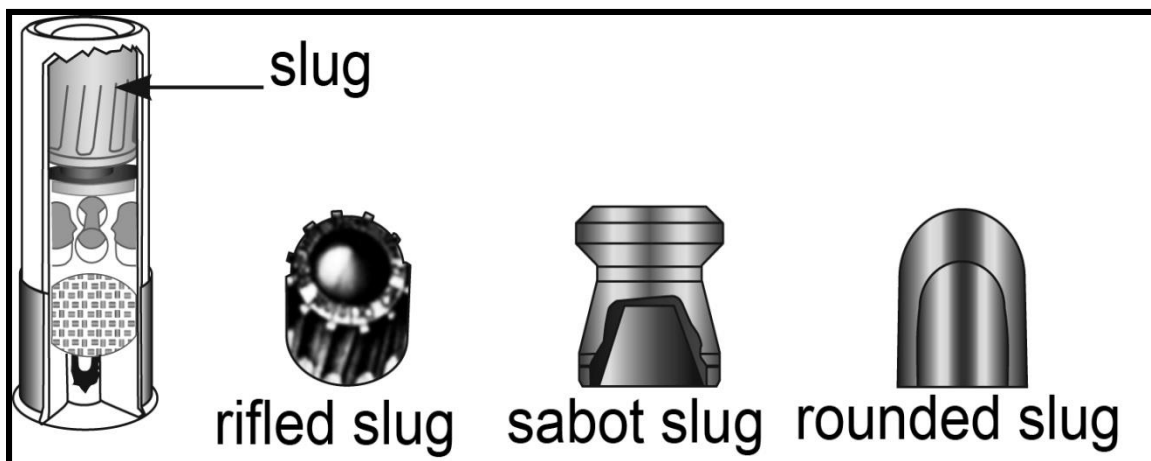


Figure 28. Types of Shotgun Slugs

5.5. Shotgun gauge

Shotgun barrels are sized by gauge instead of calibre. Gauge is an older system of measurement and is calculated by the number of lead balls (each having the same diameter as the bore) that weigh one pound. In other words, if it took 12 balls with the same diameter as a bore to make one pound, a shotgun with that bore would be called a 12-gauge shotgun. One exception to this rule is the .410-cal. shotgun. It is measured as a calibre because it was developed later (Figure 29).

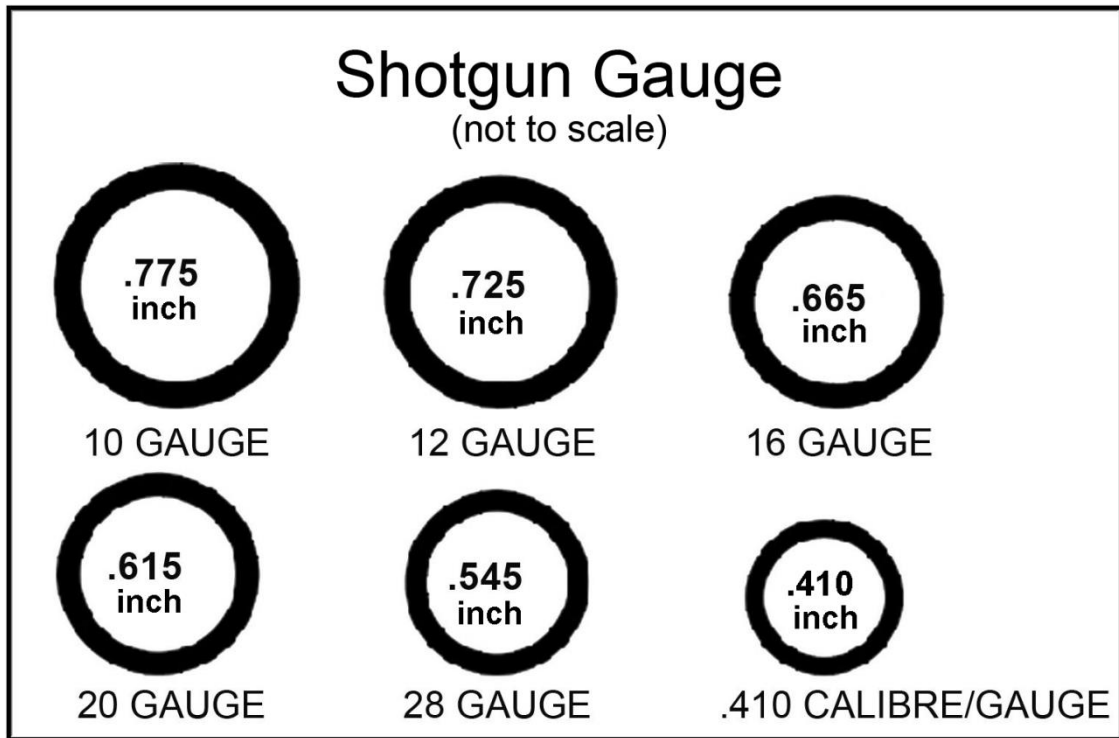


Figure 29. Shotgun Gauges

NOTES: 12 lead balls = 1 lb = 12 gauge
.410 is an imperial measure because of its American manufacture.

5.6. Choke

- a. Except in the case of a rifled barrel, the bore of a shotgun barrel is usually smooth and may be narrowed at the muzzle end. This narrowing is called the choke.
- b. The choke of a shotgun barrel helps control the spread of the shot after it is fired. This is very much like the way the nozzle of a garden hose controls the spray of water.
- c. The pattern of the pellets on the target is affected by the choke:
 - Full choke produces a tight pattern;
 - Modified choke produces a more open pattern;
 - Improved cylinder produces a more open pattern; and
 - Cylinder bore produces the most open pattern.
- d. A shotgun barrel which has no choke or narrowing at the end of the barrel is called a cylinder bore. It is often used for larger pellet sizes such as buckshot or slugs.
- e. Most modern manufactured shotguns feature a screw-in choke that can be changed depending on the use of the shotgun.

See **Figure 30** for the uses of the various chokes and their shot patterns. The pattern will depend on the different type of shot used, for example: lead, steel, bismuth or tungsten-iron among others. It is the shooter's responsibility to learn about the shotgun pattern and to determine the pattern for their particular shotgun and ammunition.

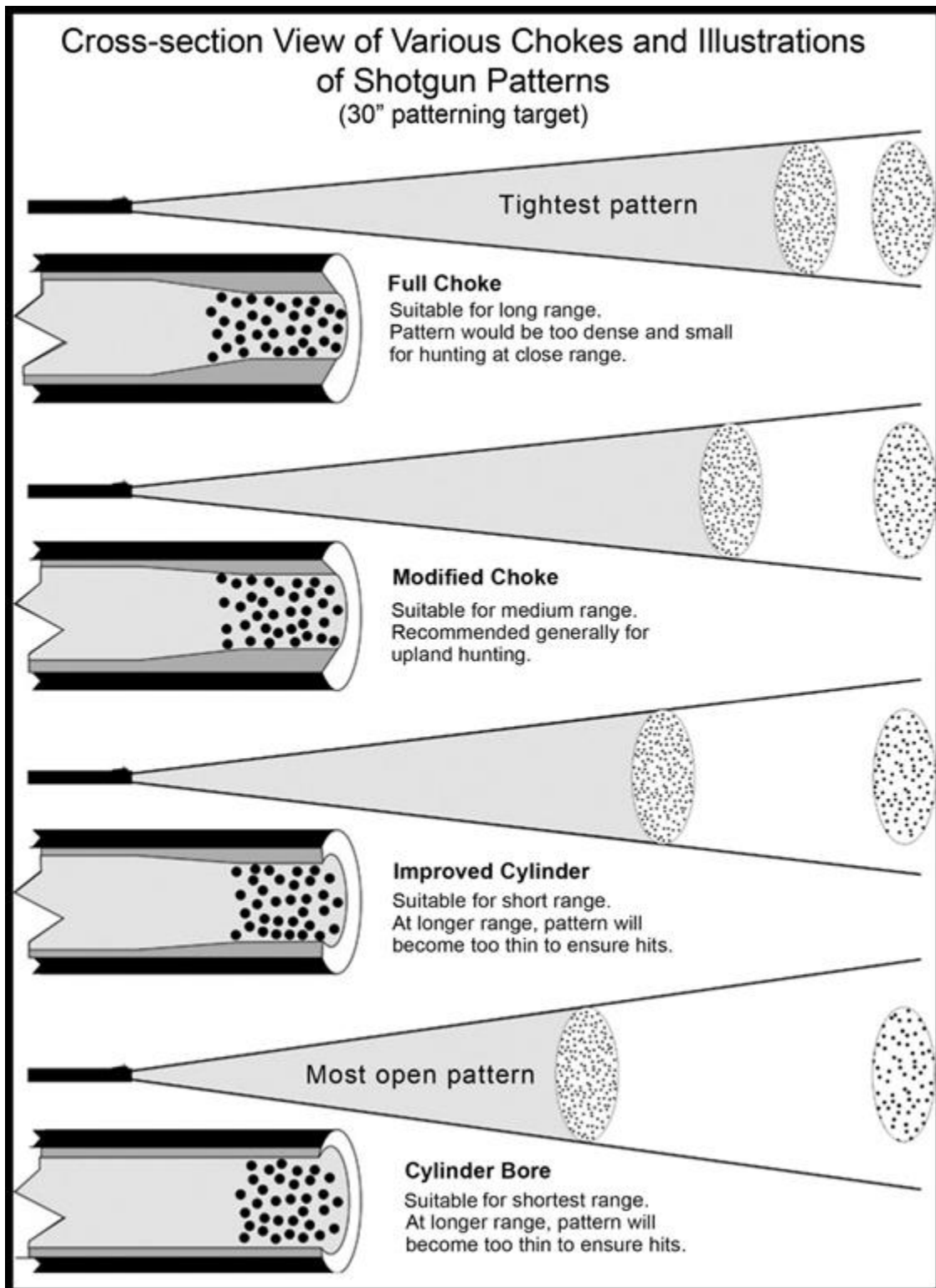




Figure 30. Cross-section View (Chokes and Patterns)

Table 6. Cartridge and Shell Comparison

TYPE	COMPONENTS	PURPOSE
CARTRIDGES USED IN RIFLES		
Rim-Fire or Centre-Fire Sizes: Calibre e.g. - .17HMR, .22, .30 or 7 mm 	CASE	Contains components
	PRIMER	Fires powder charge when struck by firing pin
	POWDER	Burns and expands to propel bullet
	BULLET	Strikes target
SHELLS USED IN SHOTGUNS		
Sizes: Gauge e.g. - 12 or 20 gauge or .410 cal. 2¾", 3, 3½" approximate case length <i>after firing.</i> 	HULL	Contains components
	PRIMER	Fires powder charge when struck by firing pin
	POWDER	Burns and expands to propel shot or slug
	WAD	Separates shot from powder and seals barrel behind shot during firing
	SHOT or SLUG	Spreads out to strike target Strikes target

5.7. Shotgun shells

5.7.0. Overview

- a. Shotgun ammunition is centre-fire. The casing or hull has a thick, solid base. The primer is located in a separate cup in the centre bottom of the casing (Figure 31).
- b. The firing pin strikes the primer. This explodes the priming compound and ignites the powder. The shot charge is usually a number of pellets. It can also be a single slug.

5.7.1. Shotgun shell components and materials

- a. Shotgun shell components are similar to those of rifle cartridges. However, there are five components, not four (Figure 32). The five shotgun components are described below.
 1. **Shot** is the name for the charge of pellets fired from a shotgun. Shot may be either lead, steel, bismuth or tungsten-iron pellets. Historically, shot was primarily made of lead. However, because of environmental concerns, use of other materials is increasing:
 - The use of steel in some shotgun barrels may cause damage to the firearms. For further information, please check the manufacturer’s manual or contact a gunsmith.
 - The size and number of pellets vary. They depend on the type and range of the target. Smaller pellets are usually used for smaller or closer targets (see the Figure in Table 7).
 - Sometimes a single large projectile known as a “**slug**” is fired from a shotgun. This is for hunting larger game.
 2. Shotgun shells also contain one or more **wads**. The wad is made of paper, fibre or plastic. It separates the powder charge from the shot or slug. This prevents hot gas from damaging the shot and seals the gases behind the charge. It also separates the shot from the inside of the barrel.
 3. The **powder charge** is a chemical compound in the body of the hull. It is ignited to propel the shot through the barrel.
 4. The **hull** contains all the other ammunition components. The hull is commonly made of a combination of brass, plastic or paper.
 5. The **primer** contains a chemical mixture that explodes when the firing pin strikes it. This ignites the powder charge.

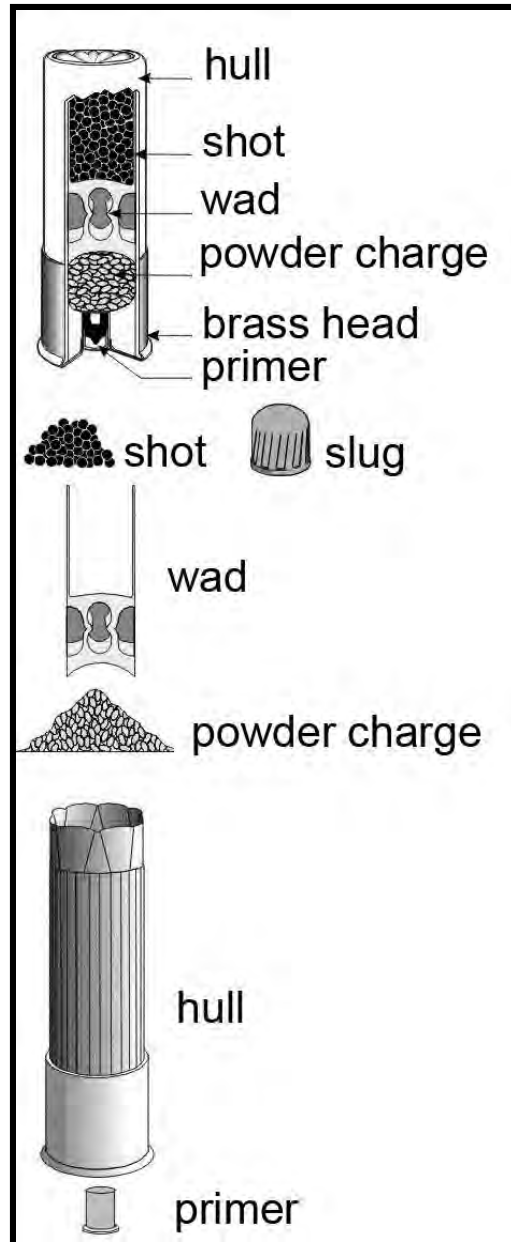


Figure 31. Shotgun Shell Components

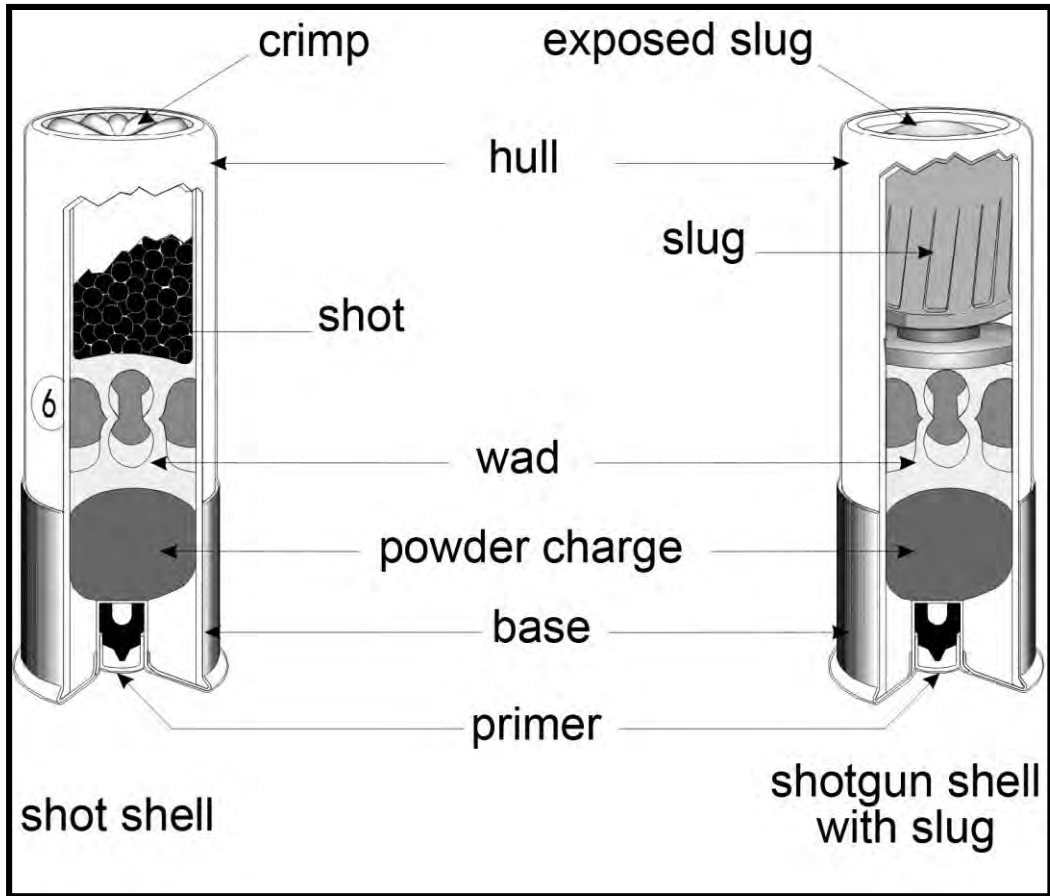
























Figure 32. Shotgun Shells

Table 7. Lead Shot Sizes

Shot Sizes								
Buckshot Sizes			Shot Sizes					
	Shot Number	Diameter in Inches	# Pellets Typical Loads		Shot Number	Diameter in Inches	Pellets / oz. Lead	Pellets / oz. Steel
	4	.24	27 34		9	.08	585	na
	3	.25	20 24		8	.09	410	na
	1	.30	12 16 20 24		7½	.095	350	na
	0	.32	12		7	.10	-	420
	00	.33	9 12 15		6	.11	225	316
	000	.36	8		5	.12	170	243
					4	.13	135	191
					3	.14	-	153
					2	.15	87	125
					1	.16	-	103
					B	.17	-	na
					BB	.18	50	72
					BBB	.19	-	61
					T	.20	-	53
					TT	.21	-	na
					F	.22	-	na

5.7.2. Shotgun shell types

1. Various types of shells exist. They vary in length, gauge, size and type of pellet (shot)—Table 7. To choose the right ammunition for your firearm and target, follow the manufacturer's recommendations. For example, shotgun shells in 12 gauge commonly come in several lengths as follows:

- 70 mm ($2\frac{3}{4}$ inches);
- 76 mm (3 inches); and
- 89 mm ($3\frac{1}{2}$ inches).

NOTE: These dimensions refer to the lengths of the shells **after** firing (Figure 33).

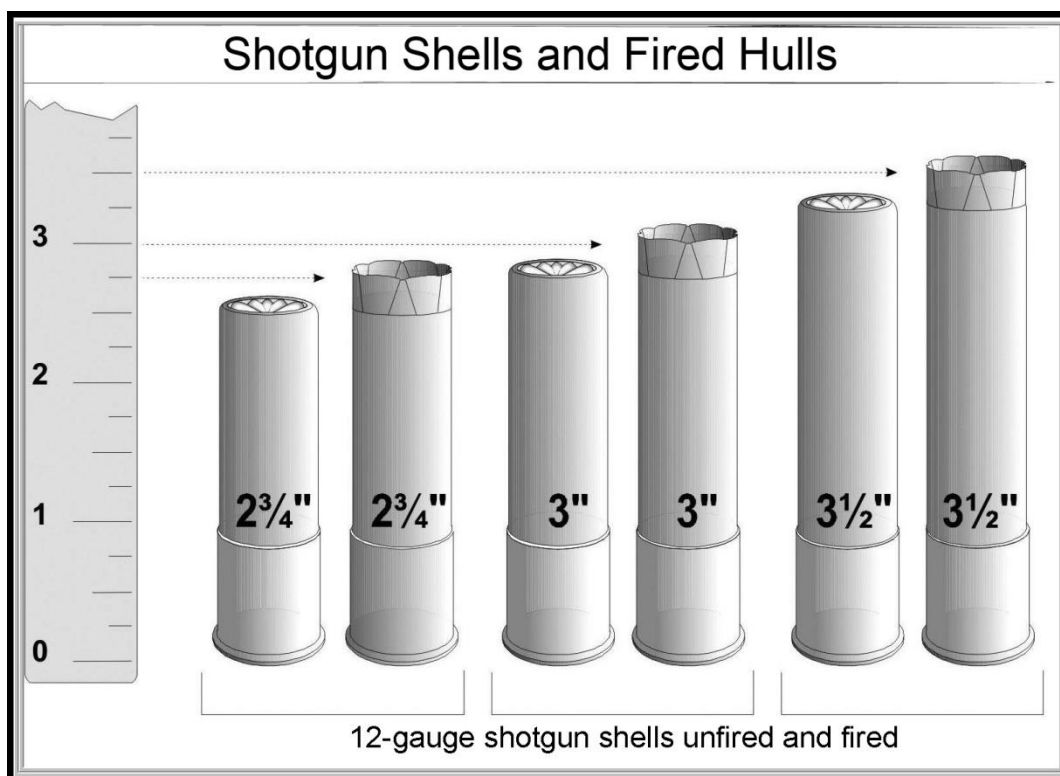


Figure 33. Shotgun Shells and Fired Hulls



It should be noted that some European shotguns are manufactured in 2- and $2\frac{1}{2}$ inch chamber size. Firing a $2\frac{3}{4}$ -inch shell in these firearms is dangerous. Other lengths are possible in gauge other than 12 gauge. If in doubt, check with a gunsmith. Actual shell length may vary slightly from these sizes. Shell manufacturers round off the sizes shown on the boxes.

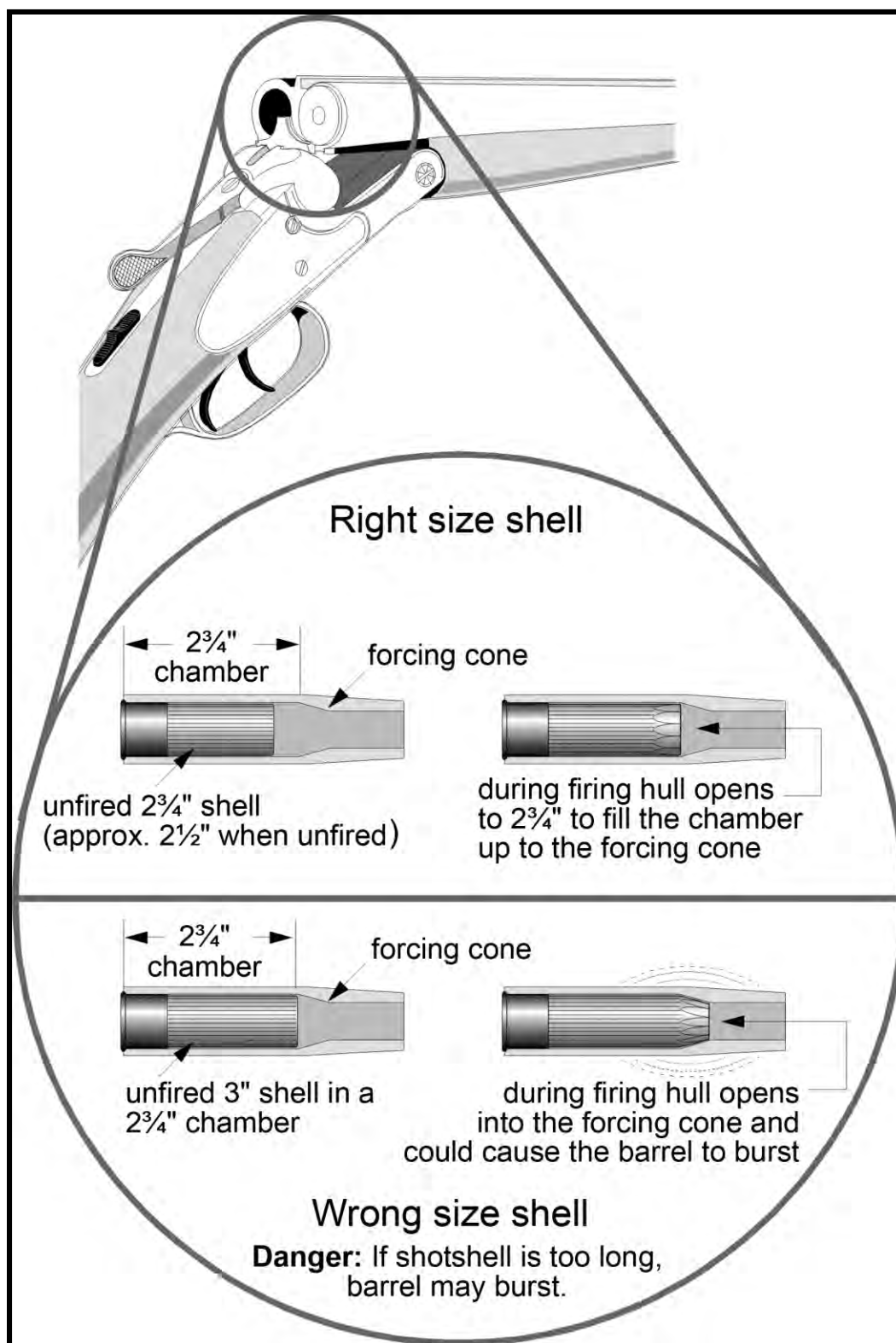


Figure 34. Shell in Chamber

- a. The following information is stamped on the barrel or action (Figure 35) of many modern shotguns:
 - gauge;
 - maximum shell/chamber length; and
 - type of choke.
- b. The gauge of a shotgun shell is printed on the base of the shell. The gauge and the shell length are also on the ammunition manufacturer's box. This information must be matched to the data stamp on the shotgun barrel prior to loading the firearm. If in doubt, check with a gunsmith or a gun shop.
- c. If there is no data stamp, take the firearm to a gunsmith. The gunsmith can measure the firearm and give advice on proper ammunition.
- d. Chamber dimensions are given for a fired shell. Use the information on the box. If you measured an unfired shell, you might think a 3-inch shell is only $2\frac{3}{4}$ inches and have an incident.



Do not attempt to use longer ammunition than indicated on the barrel data stamp. If you do, the barrel might burst (Figure 36).

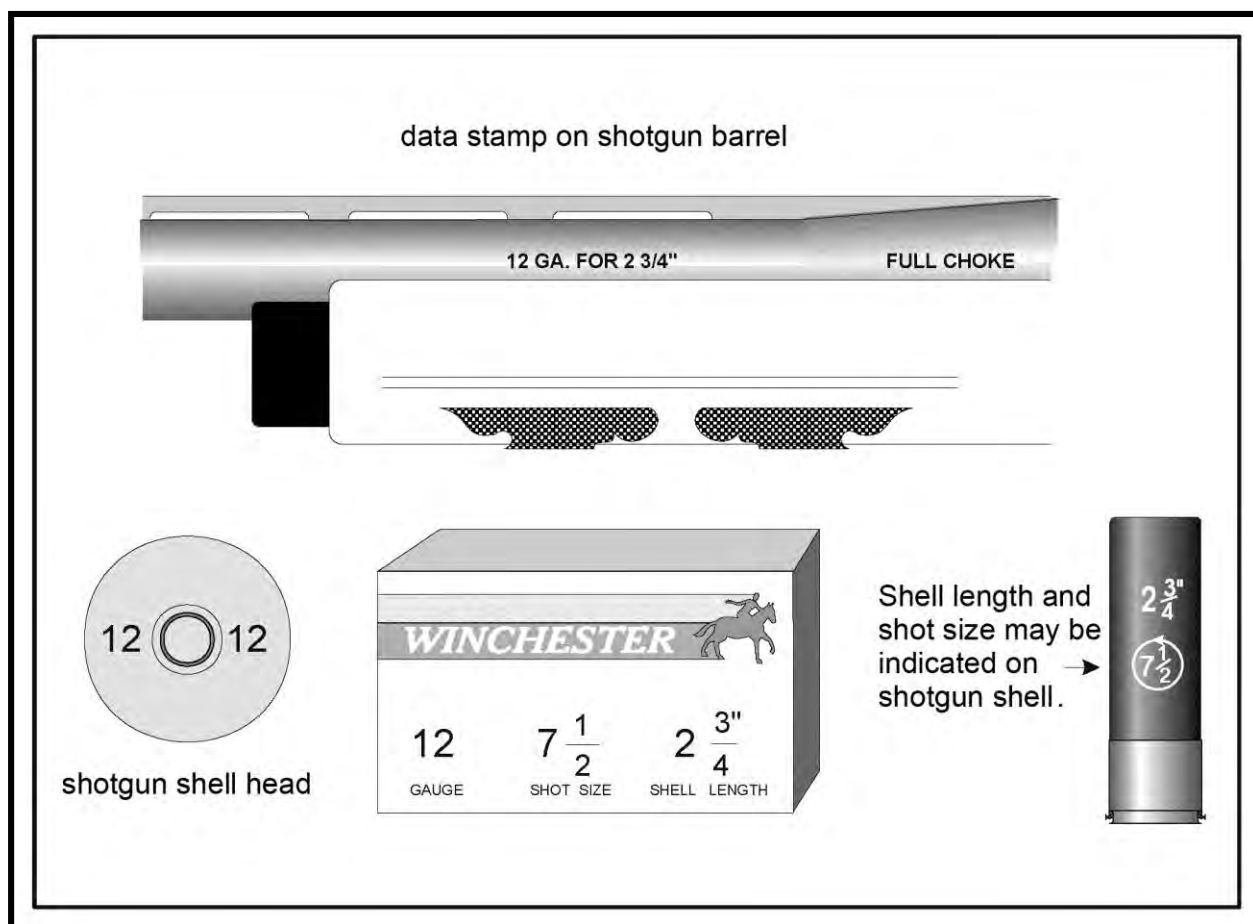


Figure 35. Data Stamp on Shotgun Shell



Serious injuries may occur when hunters or shooters load the wrong ammunition into their firearms. An easy mistake to make is loading and chambering a 20-gauge shotgun shell into a 12-gauge shotgun. The small shell will slide through the chamber and stick in the forcing cone. Users may then insert a 12-gauge shell behind the 20-gauge shell. When fired, the barrel may burst (Figure 36). Burst barrels scatter metal. People have been seriously injured or killed by this error.

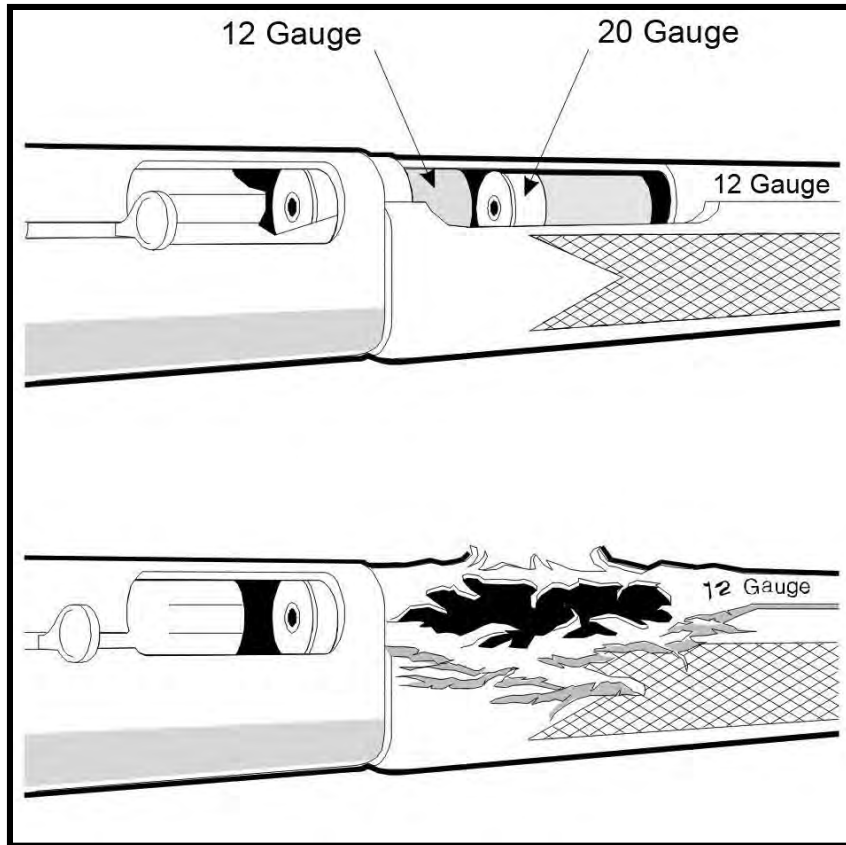


Figure 36. Exploded Chamber



For hunting, various provincial rules about shot and bullet size and materials exist. Your course instructor can provide more precise information. You can also check with your local hunting authority for exact regulations.

5.8. Ballistics

- a. Ballistics is the study of projectiles in flight.
- b. Modern firearms can shoot a long distance. For this reason, every shooter should understand ballistics. Shotguns can fire shot more than the length of a football field. Some rifles can fire bullets further than five kilometres.
- c. A general knowledge of ballistics is important because different ammunition has different penetrating effects. A projectile may not stop where you want it to.
- d. Ballistics tables for ammunition supply the information to calculate the flight path and performance of cartridges.
- e. You want to hunt or shoot safely. Therefore, you need to know how far your projectile will travel. That means that you need to know the dangerous range (Figures 37 and 38).



Be sure of your target and beyond. If there is any reason your shot may be unsafe, do not fire.

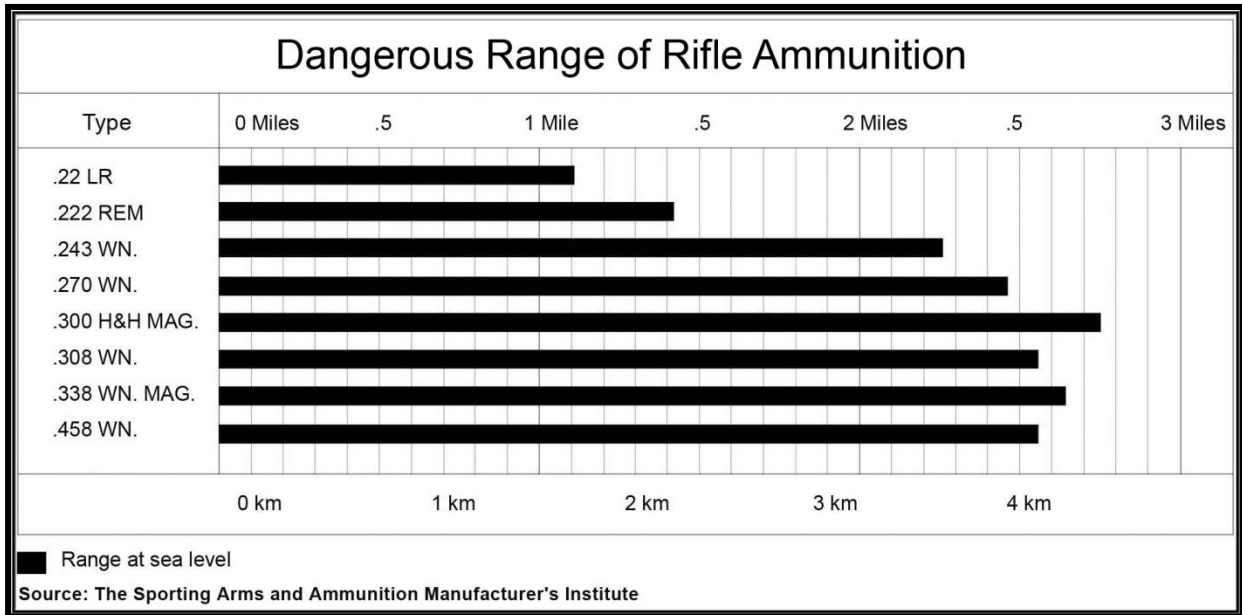


Figure 37. Dangerous Range of Rifle Ammunition

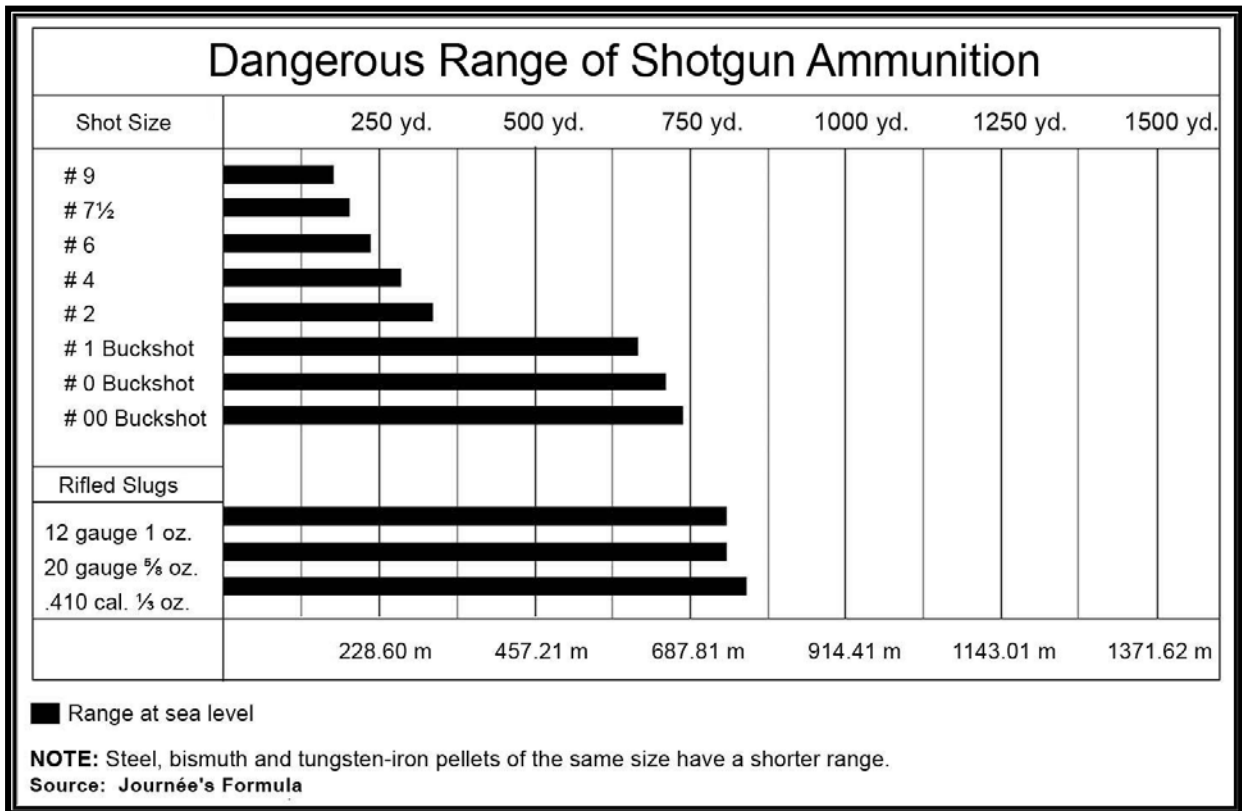


Figure 38. Dangerous Range of Shotgun Ammunition

5.9. Trajectory

- a. The trajectory is the path a discharged shot or bullet takes during flight (Figure 39). Several factors affect this path; examples include, but are not limited to, the following:
 - Gravity pulls the bullet down toward the ground as it is travelling forward. This results in a downward curved path.
 - Air resistance holds back the passage of the bullet. This slows its flight.
 - Velocity is the speed at which a bullet travels, in a given direction.
 - Mass is the weight of the bullet.
- b. The firearm muzzle must be raised from the horizontal position to make up for gravity. The trajectory of a projectile is slightly curved. It crosses the line of sight twice on the way to the target.

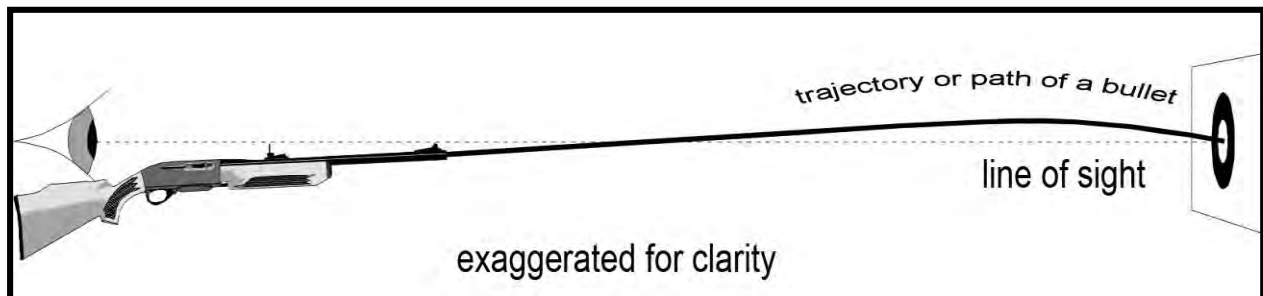


Figure 39. Trajectory of a Bullet



Responsible shooters will follow the recommendations below:

- **Only fire at targets within the effective range.**
- **Consider how far the shot or bullet may travel beyond the target.**
- **You are responsible for where the bullet stops.**

5.10. Hazards

The selection of the correct ammunition for the firearm is critical to safe operation. Modern commercial ammunition is normally very reliable but there are several ways the cartridge may not fire.

- A misfire is a cartridge that does not fire. Misfired cartridges should not be reused in the firearm and must be disposed of properly. Muzzleloading firearms may also misfire.
- A hangfire is a delayed fire in which the firing pin strikes the primer but it does not create enough flame to ignite the powder instantly. If the muzzle is not pointed in a safe direction when the cartridge eventually fires, it may result in an injury. If the cartridge is removed from the chamber and then discharges, the explosive rupture of the case may also cause injury. Muzzleloading firearms may also have a hangfire.
- A primer pop (squib load) happens when the cartridge does not contain any gunpowder. The firearms will discharge the primer without the usual noise or recoil. This may have enough force to push the bullet out of the case, but the bullet may lodge in the barrel. If another bullet is fired, the barrel may rupture and possibly cause injury.



If the trigger is pulled and there is no noticeable discharge, wait 60 seconds while pointing the muzzle in a safe direction. If there is no hangfire within 60 seconds, open the action pointing away from yourself and unload the firearm. PROVE the firearm safe to ensure there is no blockage lodged in the barrel.

5.11. Firearm malfunctions



Generally, when using commercially made ammunition and a properly maintained firearm, malfunctions will not occur. Firearms jammed with a cartridge or shell in the chamber(s) can be a hazard and must be carefully cleared of the jam. This hazard, if not dealt with properly, may result in a serious injury. Consult a qualified person or gunsmith for information on how to perform this function in the safest possible manner.

5.12. Ammunition precautions and legislation

Explosives information is issued by Natural Resources Canada. It indicates that you may keep reasonable quantities of sporting ammunition on your property. “Reasonable” means quantities typically required for a rifle or shotgun, or for part of a collection. This ammunition must be for your private use, not resale. Contact Natural Resources Canada for details. You must take every necessary precaution against incidents by adhering to the instructions below:

- Ammunition must be stored out of children’s reach. It must be kept away from flammables.
- Ammunition for a non-restricted firearm may only be stored in a place where it is not within easy access to the firearm, unless the ammunition is stored, together with or separately from the firearm, in a securely locked container or receptacle that cannot be easily broken open or into.
- Ammunition for a non-restricted firearm must not be displayed with the firearm or be within easy access to the firearm from which it can be discharged.
- All ammunition should be stored in a cool, dry place, preferably in a vented container. This will reduce the chance of corrosion or breakdown of the ammunition components that could cause the firearm to jam or misfire.

See below for a summary of
“Ammunition Safety Points to Remember”.



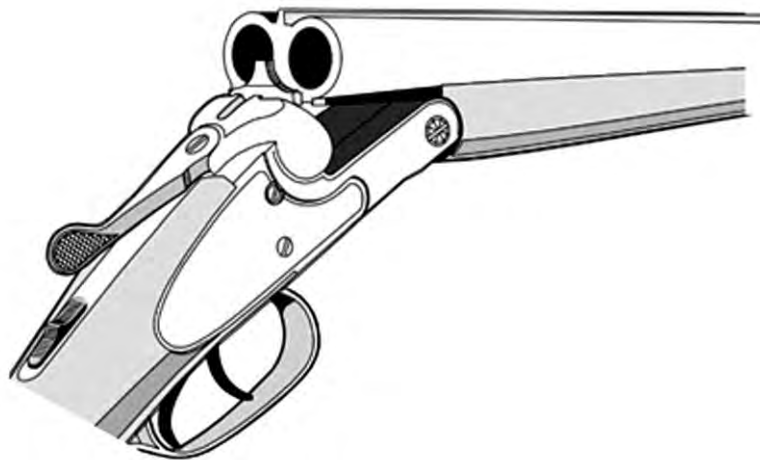
Keep in mind that storing ammunition in an unvented container may create an explosive hazard during a fire.

Ammunition Safety Points to Remember

- Carry ammunition only for the firearm you are using.
- Never experiment with unfamiliar ammunition.
- Using modern ammunition in old firearms may be hazardous.
- When a misfire occurs, slowly count to 60 while pointing the muzzle in a safe direction. Remove the cartridge following safe procedures. Then, carefully inspect the bore for obstructions.
- Never use old or corroded ammunition or reloading components.
- Never use cartridges if you are uncertain about their safe use.
- Never interchange smokeless powder and black powder. Use them only in firearms intended for their use.
- Store all ammunition so that unauthorized persons do not have access to it.
- Ammunition should never be displayed with a firearm.
- Ammunition is most safely carried in its original container.
- When hand loading your own ammunition, be certain to strictly follow the procedures in the manuals about reloading ammunition. Treat primers with extra caution—they are explosive devices.

5.13. Review questions

1. Under what circumstances can you store ammunition with a firearm?
2. Name the malfunction whereby, after the trigger is pulled, there is a several-second delay before firing.
3. What is the preferred temperature and humidity for ammunition storage?
4. Describe four factors which affect trajectory.
5. What safety precaution should be taken with a firearm that does not have a data stamp?
6. Is it legal to display a firearm and its ammunition together?



MODULE 6: OPERATING FIREARMS ACTIONS





MODULE 6: OPERATING FIREARMS ACTIONS

6.0. Overview

- a. To understand the safe use of firearms, you must become familiar with action types, how they work, and how to safely load and unload them.
- b. This module first defines the different types of firearms, various safeties and action releases and shows how to do the following:
 - identify each type of action;
 - locate safeties (some actions will not open unless the safety is **OFF**);
 - pick up a gun—**ACTS** and **PROVE it safe**; and
 - safely load each type of action, with the safety **ON**, whenever possible.



Always wear safety glasses and hearing protection when loading and discharging firearms.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

PROVE is an acronym, or memory aid, that stands for the five steps required to ensure that a firearm is unloaded and safe. The five steps are: **P**oint, **R**emove, **O**bserve, **V**erify and **E**xamine. These procedures must be followed to safely unload any firearm.

1. **P**oint the firearm in the safest available direction.
2. **R**emove all ammunition.
3. **O**bserve the chamber(s).
4. **V**erify the feeding path.
5. **E**xamine the bore(s).



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.1. Action types

Firearms are generally classified by their type of action. There are six basic types (Figure 40).

- A muzzleloader is loaded through the muzzle with black powder or black powder substitutes. Ignition is created by the flash produced by the hammer striking a percussion cap.
- A hinge (or break) action opens near the breech and is usually single- or double-barreled.
- A bolt action is similar to a door bolt and can be single or multiple shot.
- A lever action has a metal handle that opens the action. It can be single or multiple shot.
- A pump action works by pumping the fore-end of the stock back and forth and is normally multiple shots.
- A semi-automatic action extracts and ejects empty casings and inserts another cartridge in the chamber automatically, each time you pull the trigger.

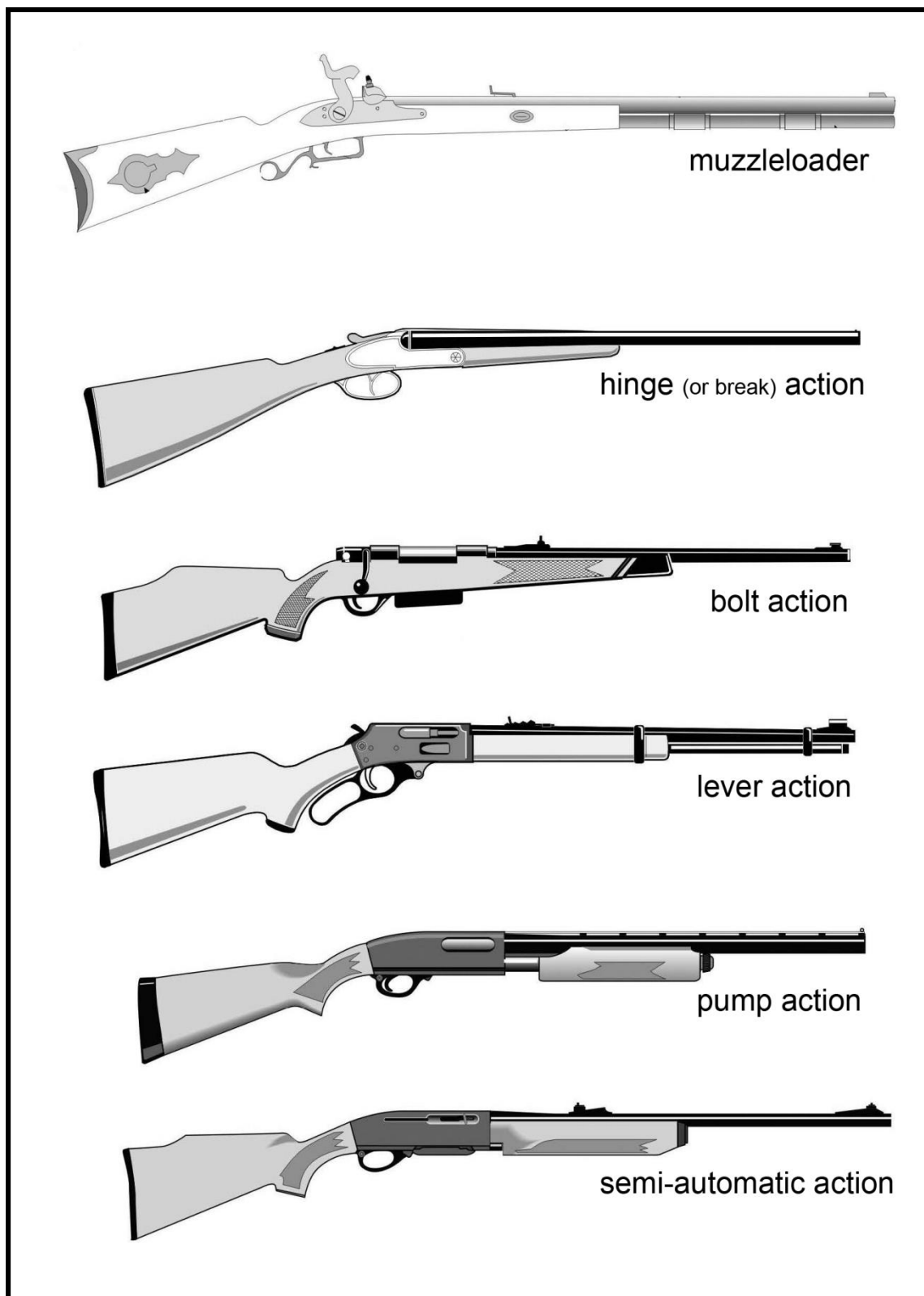


Figure 40. Types of Modern Non-restricted Firearms Actions

6.2. Safeties

6.2.0. Overview

- a. A mechanical device known as a safety is included on most firearms to reduce the chances of unintentional firing. However, mechanical devices can fail. A hard blow may cause some firearms to fire even with the safety **ON**. Therefore, safe handling of a firearm by the person holding it will always be the most important firearm safety device. Always use the safety, but never rely on it to prevent firing.
- b. The safety is designed to prevent the firearm from firing by interrupting the firing sequence. The safety blocks one or more of the trigger, sear, hammer or firing pin.
- c. Common types of safeties on non-restricted firearms are the slide/tang, pivot/lever/rocker, wing, trigger block/lever, and cross-bolt or button safety (Figures 41 to 44). In addition, some lever action firearms and muzzleloaders use a half-cock safety.



Never rely on a safety to prevent unintentional firing. A safety can fail. All safeties are slightly different. Consult the owner's manual. Different manufacturers may use different terminology to describe their safeties.

6.2.1. Slide/tang safety

This safety is common on shotguns and rifles (Figure 41). It is usually on the right side of the receiver on rifles, and the top of the receiver on shotguns. It blocks the firing mechanism. Some modern lever actions also have slide- or button-type safeties located in the action area.

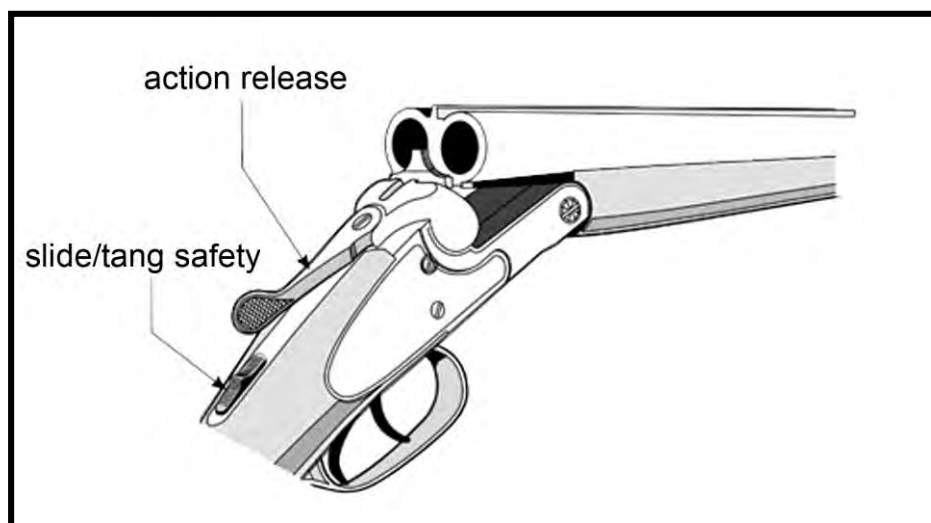


Figure 41. Side/Tang Safety

6.2.2. Pivot/lever/rocker safety

This safety is commonly found on modern firearms as well as on older military firearms (Figure 42). It is often located above the trigger area on the left or right side of the bolt.

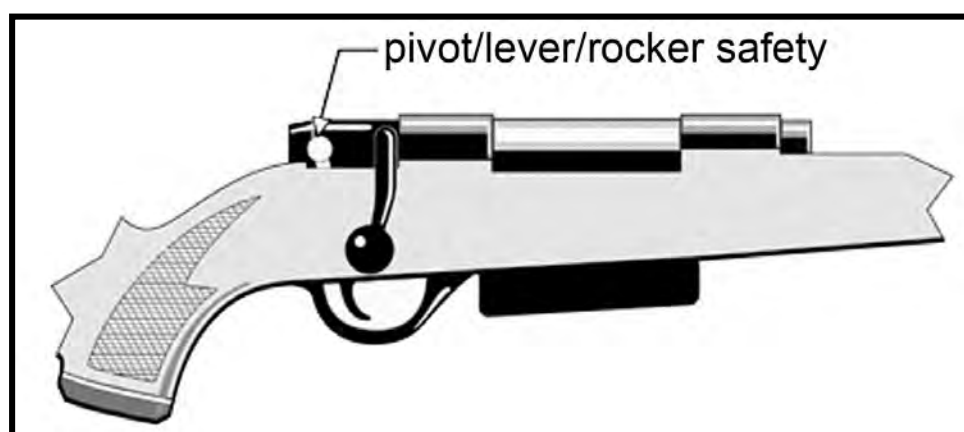


Figure 42. Pivot/Lever/Rocker Safety

6.2.3. Wing safety

The wing safety is frequently used on the bolt of a bolt-action firearm (Figure 43). It is often located above the trigger area on the left or right side of the bolt.

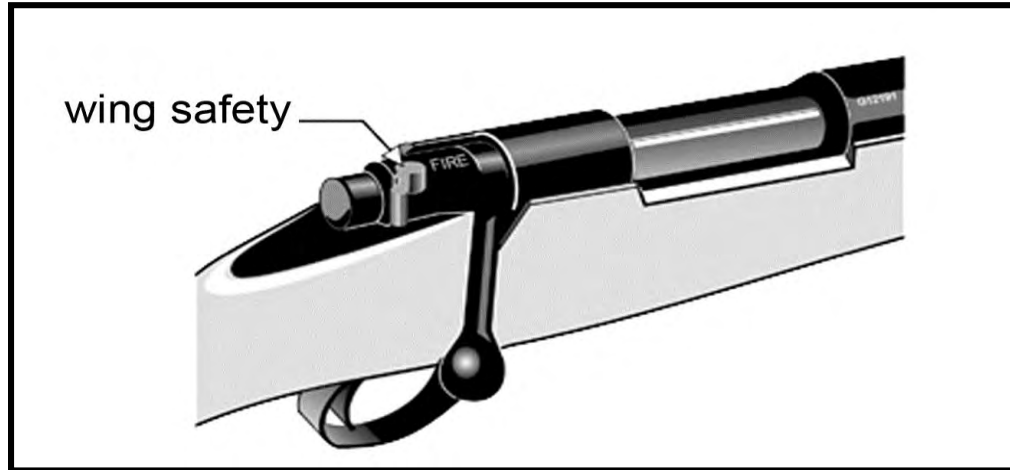


Figure 43. Wing Safety

6.2.4. Trigger block/lever safety

This safety is used on some lever action firearms (Figure 44). It is a mechanism that ensures the lever-action firearm will not fire unless the lever action is pressed firmly against the stock.

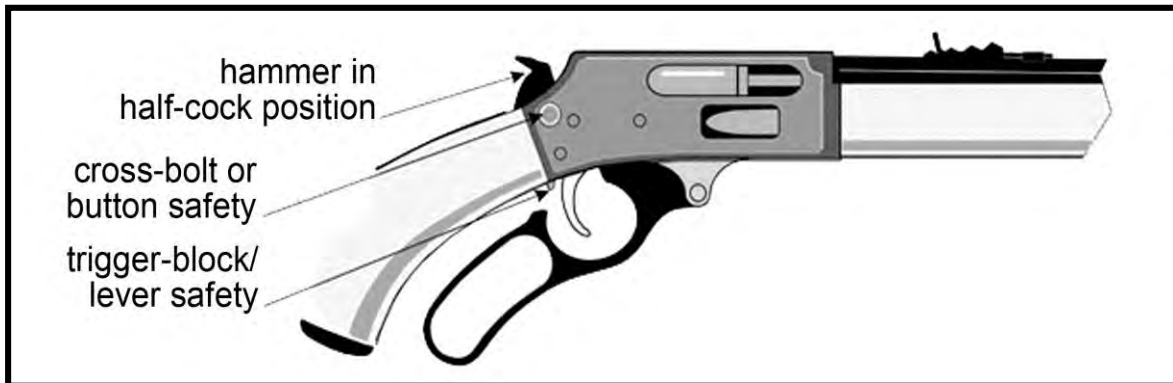


Figure 44. Trigger Block/Lever Safety

6.2.5. Hammer on half-cock notch safety

The hammer has three positions: full forward, half cock and full cock.

- When the hammer is fully forward resting on the firing pin, a sudden blow on the hammer may discharge the firearm.
- When the hammer is part-way-back or in half-cock position—on firearms so designed—the safety is considered to be **ON**.
- When the hammer is all-the-way-back on such firearms, it is in full-cock position and the safety is considered to be **OFF**.



The presence of a half cock on a firearm does not guarantee it is a safety. Some firearms do not use it as a safety. Consult the owner's manual. Remove your finger from the trigger when lowering the hammer to the half-cock position once the hammer starts to go forward. This will re-engage any automatic safety linked to the trigger. Be very careful when moving the hammer in any of the three positions as it could slip from beneath your thumb and fire the cartridge.

6.2.6. Cross-bolt safety

- a. The cross-bolt safety (Figure 45) is a push-button type of safety. It is common on many types of firearms. It works by blocking the trigger mechanism or hammer.
- b. The safety position can be indicated in several ways as follows:
 - **safe** and **fire**;
 - **ON** and **OFF** switch; or
 - **red** means that the safety is **OFF**, and the firearm can be fired.
- c. However, there is not one standard rule for indicating the safety position, and sometimes none of the above positions can be found on the firearm. If this is the case, ensure that the firearm is unloaded and pointing in a safe direction **BEFORE** checking the safety operation in the manufacturer's manual.

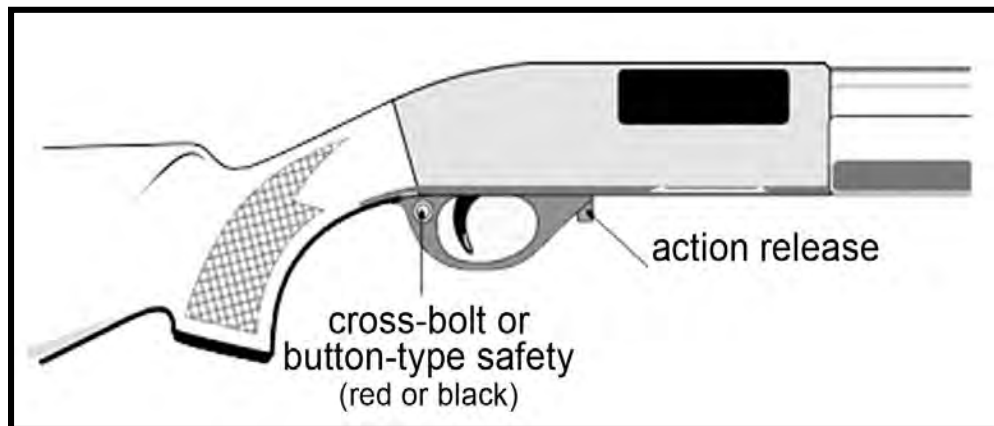


Figure 45. Cross-bolt Safety



Before loading any firearm, determine the ON position of the safety.

6.3. Action releases

Most firearms have some type of mechanism that must be moved to allow an action to be opened or closed. The location of the action release mechanism depends on the make and model of the firearm.







**Do not touch any firearm unless you know how to handle it safely.
Consult the owner's manual or a person who knows that firearm well.**

6.4. General loading and unloading procedures

6.4.0. Overview

Before attempting to unload a firearm, first follow the **Vital Four ACTS of Firearms Safety** and **PROVE** it safe.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

6.4.1. Unloading procedure—ACTS and PROVE it safe

PROVE is an acronym, or memory aid, that stands for the five steps required to ensure that a firearm is unloaded and safe. The five steps are: **P**oint, **R**emove, **O**bserve, **V**erify and **E**xamine. These procedures must be followed to safely unload any firearm.

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.
 - Make sure that nothing touches the trigger throughout this procedure.
 - Put the safety **ON**, if it can be left on during the unloading process.
2. **R**emove all ammunition as follows:
 - If the firearm has a detachable magazine, remove the magazine from the firearm first. Open the action to remove any ammunition from the chamber. (This prevents a firearm from chambering another cartridge if the action closes.)
 - Leave the action open.
3. **O**bserve the chamber(s) to confirm that there is no ammunition or empty casing(s).
4. **V**erify by inspecting the feeding path to make sure it is empty of ammunition, empty casings, or foreign objects. Make certain that you see or feel the follower, if one is present.
5. **E**xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.4.2. Checking the barrel for obstructions

In all of the following loading procedures, always check the barrel and chamber for obstructions before loading. Whenever possible, this should be done by looking through the barrel from the BACK or breech end. If you cannot, be certain that the firearm is unloaded and the action is open and the chamber empty BEFORE looking down the barrel from the muzzle end. Some shooters prefer to use a bore light inspection aid or run a rod with a patch through the barrel before loading rather than looking down the barrel. Use normal cleaning procedures to remove an obstruction, or take the firearm to an expert.



Unless the patch fills the bore completely, obstructions may not be detected.

6.4.3. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure **ACTS—PROVE it safe**.
2. Clear any obstructions from the chamber(s) and bore(s). Clean if required.
3. Point the firearm in the safest available direction throughout the loading and chambering procedure.
4. Make sure that nothing touches the trigger throughout this process.
5. Put the safety **ON**, if it can be left on during the loading process.
6. Where possible, with the action open, select and load the correct ammunition by matching the data stamp on the firearm with the head stamp on the cartridge/shell or ammunition box.
7. Close the action.
8. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is unloaded.



Always be sure of your target and beyond.

6.5. Loading and unloading the most common action types

- a. All firearms have their own unique aspects. One of the best ways to discover the detailed methods for unloading and loading your particular firearm is to study the owner's manual. The steps outlined in this section are not meant to replace a full understanding of a given firearm owner's manual.
- b. The following information is an introduction to the most common actions. The general procedure does not change, but the details can vary significantly.







Do not attempt to handle any firearm that you are not comfortable with. To ensure proper fit of any firearm, seek the assistance of a qualified individual. Before attempting to unload a firearm, follow The Vital Four ACTS—PROVE it safe.

6.6. Hinge (or break) action: single or multiple barrels

The hinge (or break) action firearm (Figure 46) opens or “breaks” near the breech like the movement of a door hinge. The safety mechanism is usually located on top of the action above the trigger area. It is often a slide/tang safety or exposed hammer which must be completely down or on half cock to be safe.

6.6.1 Unloading procedure—ACTS and PROVE it safe

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.

- Make sure that nothing touches the trigger throughout this procedure.
- Put the safety ON, if it can be left on during the unloading process.

2. **R**emove all ammunition as follows:

Move the action release to open the action. If the action release will not move, the safety may need to be moved to the OFF position.

3. **O**bserve the chamber(s) to confirm that there is no ammunition or empty casing(s)/hull(s).

- Open the action by breaking the barrel open (normally it drops downward). This should partly extract or eject any ammunition or empty casing/hull from the chambers(s). If not ejected, remove them by hand.
- Leave the action open.
- Ensure that all chambers are empty of casings/hulls or live ammunition.

4. **V**erify by inspecting the feeding path to make sure it is empty of ammunition, empty casing(s)/hull(s), or foreign objects.

5. **E**xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

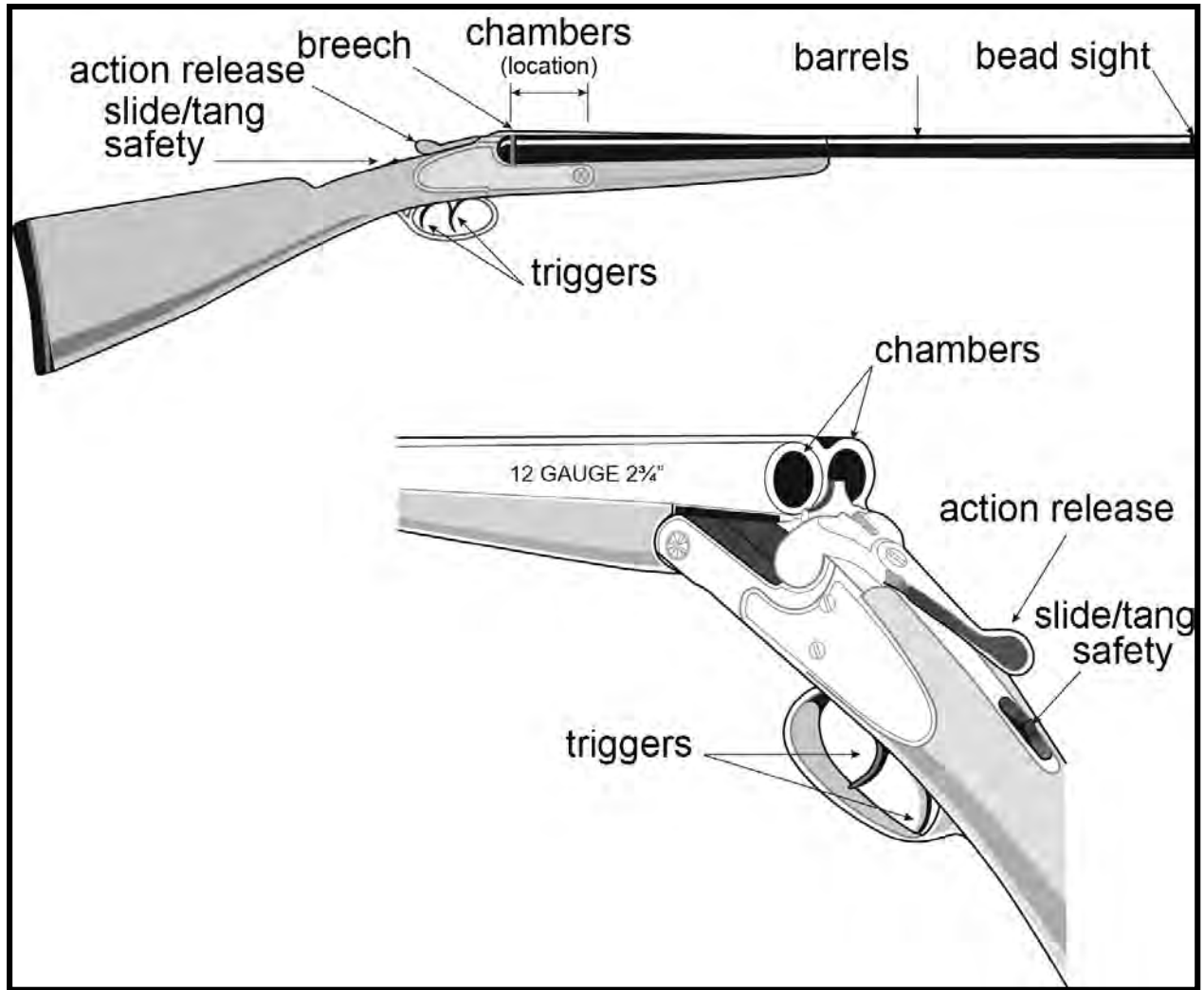


Figure 46. Hinge (or break action)

6.6.2. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure—**ACTS** and **PROVE it safe**.
2. Clear any obstructions from the chamber(s) and bore(s). Clean if required.
3. Point the firearm in the safest available direction throughout the loading and chambering procedure.
4. Make sure that nothing touches the trigger throughout this process.
5. Put the safety **ON**, if it can be left on during the loading process.
6. Select and place the correct ammunition into the chamber(s) by matching the data stamp on the firearm with the head stamp on the cartridge/casing.
7. Close the action (typically by snapping it closed with a firm action), locking the cartridge(s)/shell(s) into the chamber(s).
8. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is unloaded.



Always be sure of your target and beyond.

6.7. Single shot

6.7.0. Overview

- a. A bolt-action firearm operates something like a door bolt. This action is very strong and is most often used on rifles.
- b. The safety mechanism is usually located on top of the action above the trigger area on the left or right side of the bolt. This is often a lever safety but can also be a slide/tang located directly behind the bolt (Figures 47 and 48).

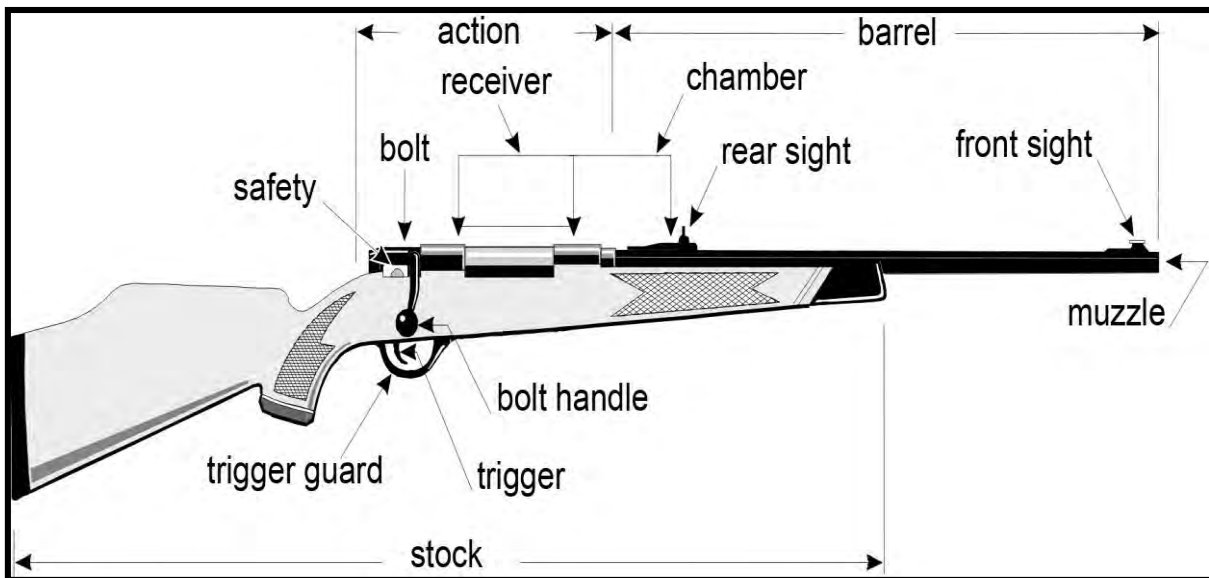


Figure 47. Bolt Action

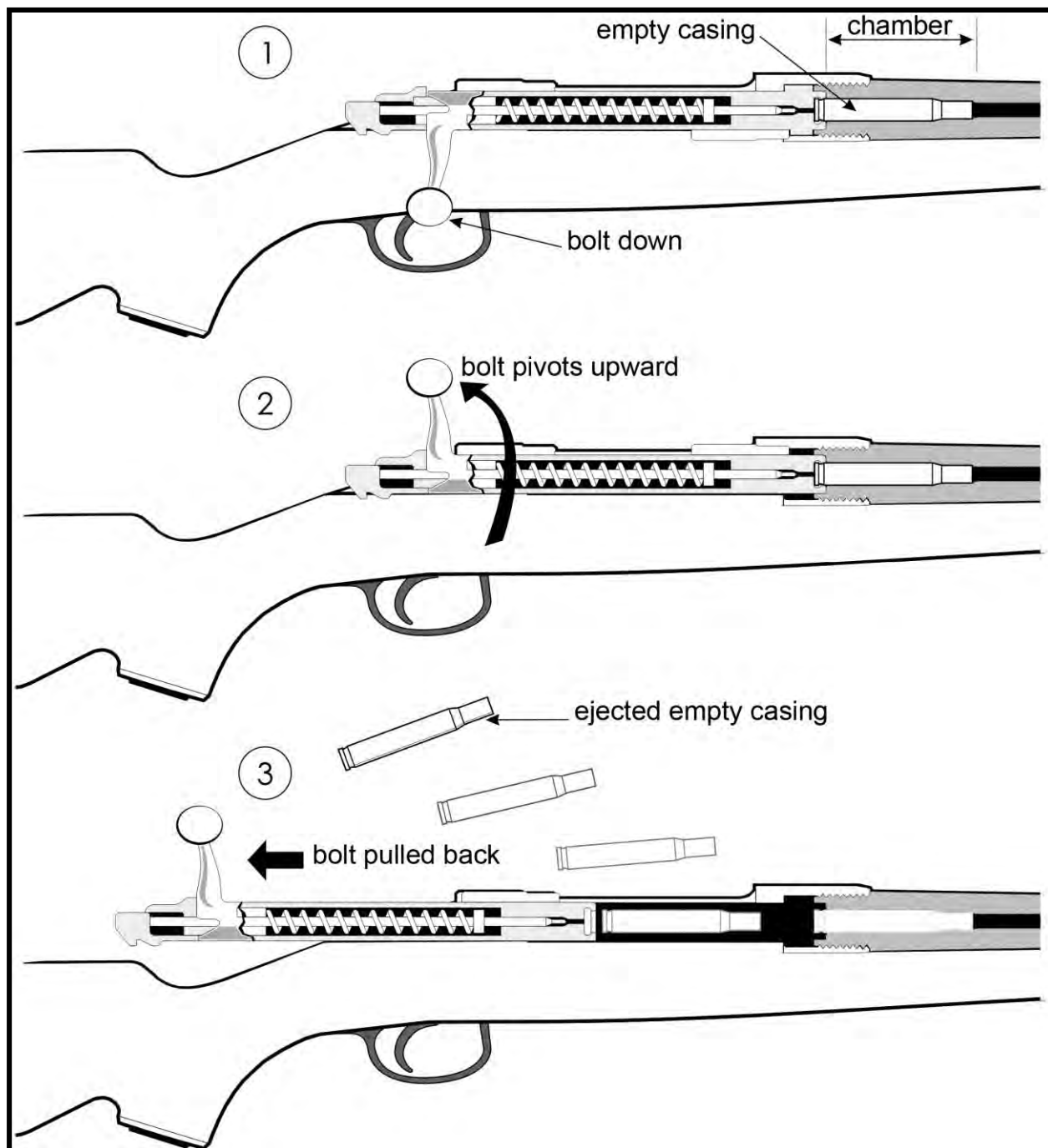






Figure 48. Single-shot Rifle Using Bolt Action to Eject Empty Casing

6.7.1. Unloading procedures: ACTS and PROVE it safe



Before attempting to unload a firearm, follow the Vital Four ACTS of Firearm Safety and PROVE it safe procedures.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.
 - Make sure that nothing touches the trigger throughout this procedure.
 - Put the safety ON, if it can be left on during the unloading process.
2. **R**emove all ammunition as follows:
 - Open the action by moving the bolt handle (typically by lifting and pulling to the rear). This should extract and eject any ammunition or empty the casing/hull from the chamber. If not ejected, remove it by hand.
 - Leave the action open.
3. **O**bserve the chamber to confirm that there is no ammunition or empty casing/hull.
4. **V**erify by inspecting the feeding path to make sure it is empty of ammunition, empty casings/hulls, or foreign objects.
5. **E**xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.

Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.7.2. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure, **ACTS** and **PROVE it safe**.
2. Select and place the correct ammunition into the magazine by matching the data stamp on the firearm with the head stamp on the cartridge or ammunition box.
3. Put the safety **ON**, if it can be left on during the loading process.
4. Close the actions by moving the bolt handle forward and down, locking the cartridge into the chamber.
5. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is unloaded.



Always be sure of your target and beyond.

6.8. Operating repeating firearms

6.8.0. Overview

- a. Many firearms are repeaters. Although they have only one chamber, they can be fired several times in a row because they hold more than one cartridge or shell. Some kind of hand movement must be made by the shooter to load another cartridge into the firing position.

The most common repeating firearms include the following:

- bolt action;
- lever action;
- pump action; and
- semi-automatic action.

- b. The extra ammunition in a repeating firearm is usually contained in some kind of magazine. Magazines are located in different places depending on the make, model and action of the firearm. There are two common types of magazines:
- box; and
 - tubular.

6.8.1. Box magazine

The usual location of a **box magazine** is shown in Figure 49. Some box magazines may be removed by depressing a button or latch. Some are not removable.

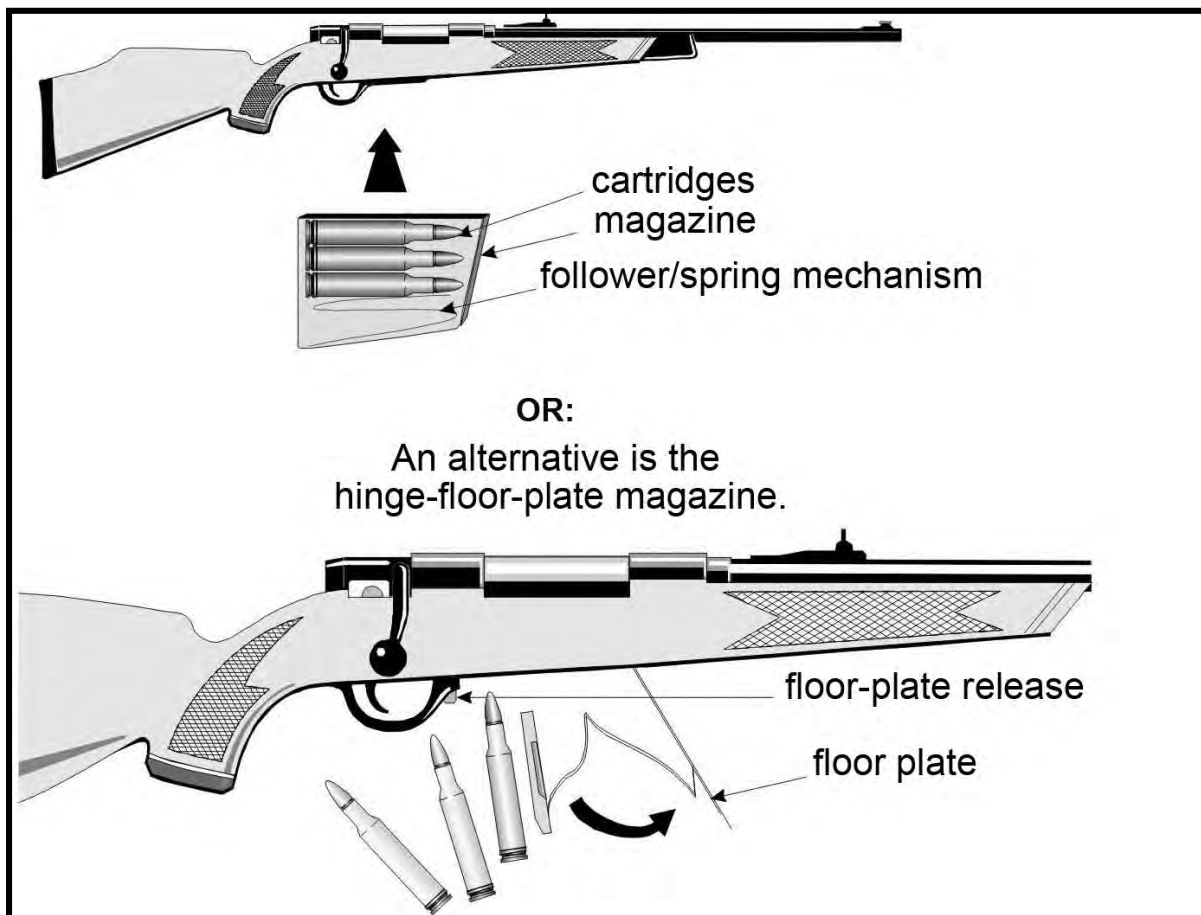


Figure 49. Box-type Magazine

6.8.2. Tubular magazine

- a. The tubular magazine is usually found in one of two locations:
 - under the barrel; or
 - in the stock.
- b. Many tubular magazines consist of a removable inner magazine tube (which should be removed when unloading the firearm).
- c. To unload tubular magazines, remove the inside tube and let the ammunition drop out of the end of the fixed-tubular magazine or the loading port. If the inner tube is not removable, close and open the action several times to be sure that there is no ammunition in the magazine. Take extra care in performing this procedure because when doing so, the firearm is in the ready-to-fire position.



Ammunition could hang-up in the tubular magazine, due to dirt, rust or dents. Always be sure you can feel or see the magazine follower to confirm that all the ammunition is out.

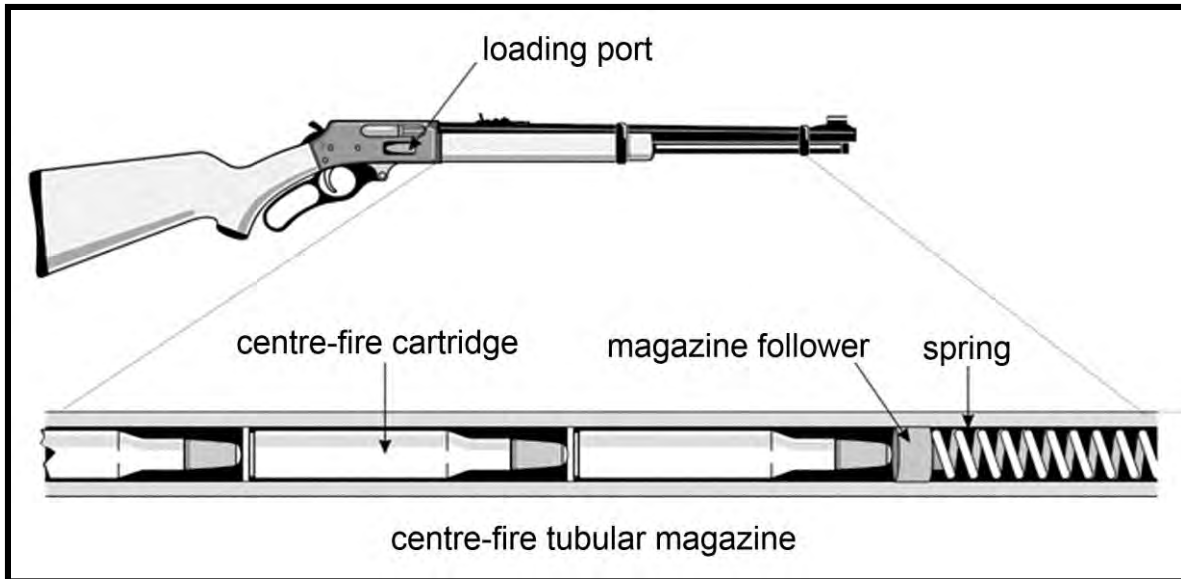


Figure 50. Tubular-type Magazine (centre-fire)



In most cases, using pointed centre-fire ammunition in a tubular magazine is hazardous. If jarred, the point on one of the cartridges may detonate the primer of the one in front of it. Check with ammunition manufacturers for compatibility.

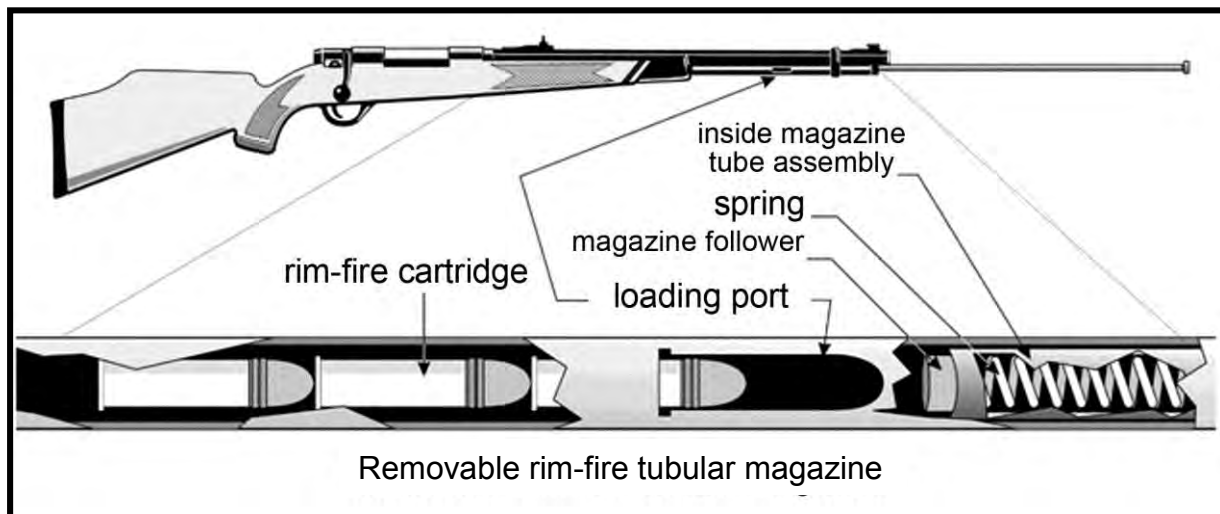


Figure 51. Tubular-type Magazine (rim-fire)

Magazine Capacity Limits

Part 4 of the *Regulations Prescribing Certain Firearms and other Weapons, Components, and Parts of Weapons, Accessories, Cartridge Magazines, Ammunition and Projectiles as Prohibited or Restricted*, sets out the limits for the number of cartridges permitted for different types of magazines.

For example, centre-fire semi-automatic rifles and shotguns including “grandfathered” full-automatics and converted full-automatics— 5-shot magazines.

These restrictions do not apply to rim-fire rifles in general, M-1 Garand rifles and other rare historically valuable magazines that have been specifically exempt, as well as non semi-automatic rifles (pump, lever or bolt action). Prior to July 1993, owners of large-capacity cartridge magazines that were affected by the limits were able to retain them if they had been properly modified to comply with the limits.

6.9. Bolt-action repeaters

6.9.0. Overview

- a. Federal, provincial and territorial laws may affect the number of cartridges you are allowed to have in a magazine while hunting. Consult your course instructor or your provincial/territorial hunting authority.
- b. A bolt-action firearm operates in a similar way to a door bolt. This action is very strong and is most often used on rifles.
- c. The safety mechanism is usually located on top of the action above the trigger area on the left or right side of the bolt. This is often a lever-type safety but can also be a slide/tang located directly behind the bolt (Figure 52).



Never rely on the firearm’s safety. Safeties can wear down and may not work properly. Also, a loaded firearm may fire even with the safety on. All mechanical devices can fail.

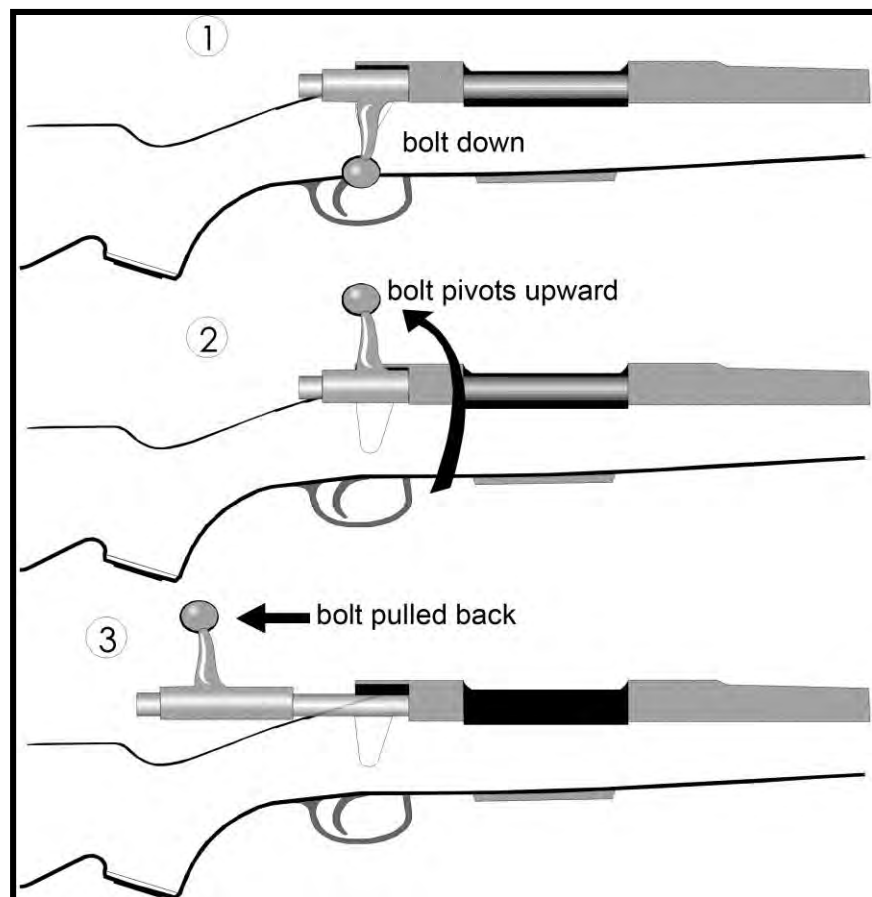






Figure 52. Bolt-action Repeater

6.9.1. Unloading procedure: ACTS and PROVE it safe



Before attempting to unload a firearm, follow the Vital Four ACTS of Firearm Safety and PROVE it safe.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.
 - Make sure that nothing touches the trigger throughout this procedure.
 - Put the safety **ON**, if it can be left on during the unloading process.
2. **R**emove all ammunition as follows:
 - Open the action by moving the bolt handle (typically up and to the rear). This should extract and eject any ammunition or empty casing/hull from the chamber. If not ejected, remove it by hand.
 - If the magazine (inner tube or box) is removable, remove the magazine.
 - Remove any ammunition using gravity to make it fall out (typically from the front of the open end of the tubular magazine).
 - If the ammunition cannot be removed in any other way, cycle all the cartridges through the chamber to get them out.
 - Leave the action open.
3. **O**bserve the chamber to confirm that there is no ammunition or empty casings/hulls.
4. **V**erify by inspecting the feeding path to make sure it is empty of ammunition, empty casings/hulls, or foreign objects. Make certain that you see or feel the follower, if one is present.
5. **E**Xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.9.2. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure—**ACTS** and **PROVE** it safe.
2. Select and place the correct ammunition into the magazine by matching the data stamp on the firearm with the head stamp on the cartridge or the ammunition box.
3. Put the safety **ON**, if it can be left on during the loading process.
4. On some firearms, you must release the spring tension on the follower at this point.
5. Re-apply spring tension to the follower or insert the magazine, if necessary.
6. Close the action by moving the bolt handle (typically forward and downward), feeding and locking a cartridge into the chamber.
7. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is loaded.



Always be sure of your target and beyond.

6.10. Lever-action repeaters

6.10.0. Overview

- a. A lever-action firearm has a metal handle located just behind the trigger (Figure 53). This action is most often used on rifles.
- b. In most cases, the safety mechanism is an exposed hammer. The hammer has three positions—forward, half cock and full cock. When the hammer is in half-cock position, the safety is considered to be **ON**. When the hammer is all-the-way-back, it is in full-cock position and the safety is considered to be **OFF**. However, when the hammer is fully forward resting on the firing pin, a sudden blow on the hammer can discharge the firearm.
- c. This type of lever action often will not fire unless the lever is fully squeezed against the stock depressing the trigger-block safety.
- d. Some modern lever-action firearms also have slide/tang or cross-bolt/button safeties located in the action area.

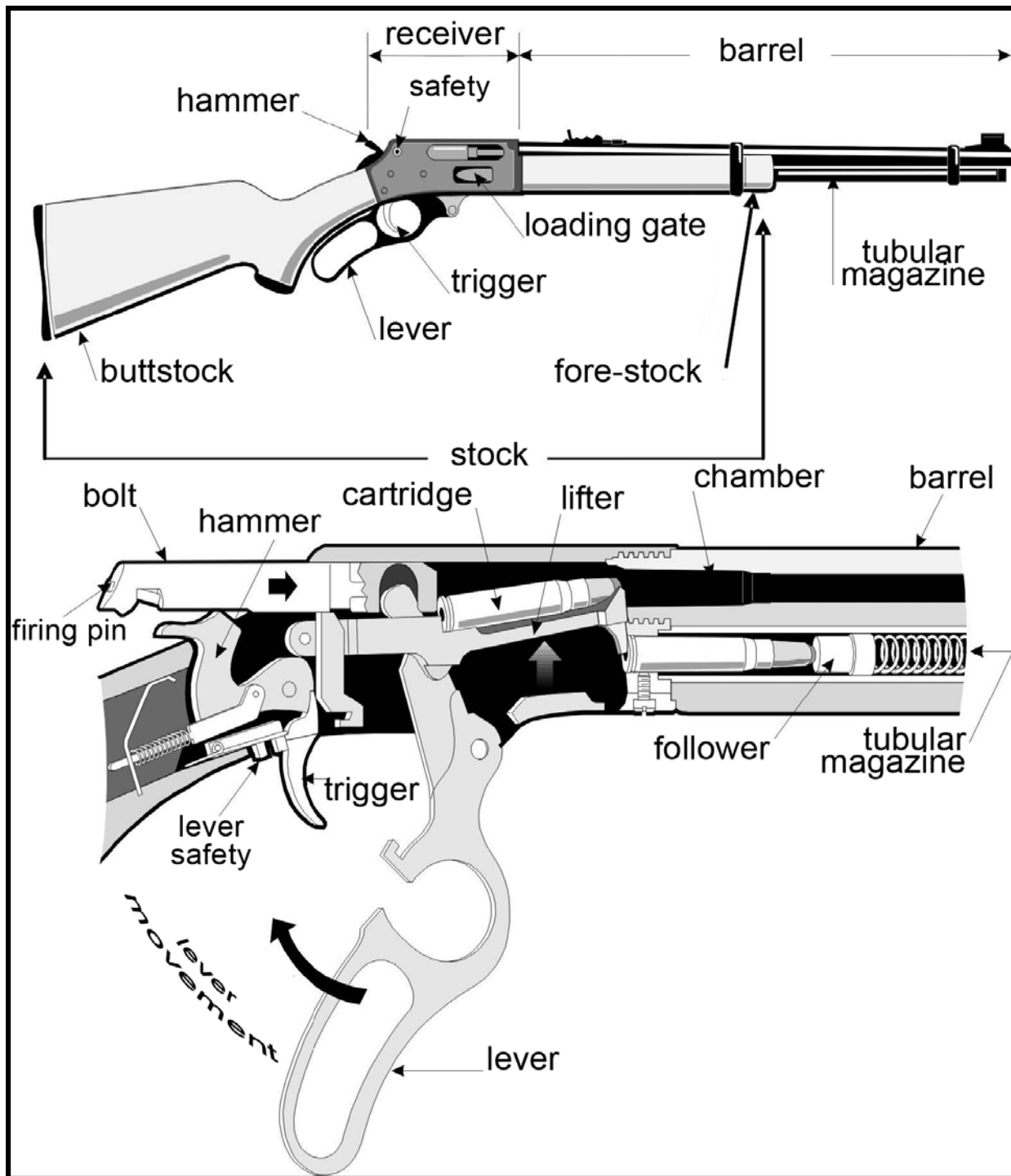






Figure 53. Lever Action

6.10.1. Unloading procedure: ACTS and PROVE it safe



Before attempting to unload a firearm, follow the Vital Four ACTS of Firearm Safety, and PROVE it safe.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.
 - Make sure that nothing touches the trigger throughout this procedure.
 - Put the safety **ON**, if it can be left on during the unloading process.
2. **R**emove all cartridges as follows:
 - Open the action by moving the lever downward. This should extract and eject any cartridge or empty casing from the chamber.
 - If the magazine (inner tubular or box) is removable, remove the magazine.
 - If it cannot be removed, and if spring tension to the follower can be released, release it.
 - If applicable, remove any cartridges using gravity to make them fall out (typically from the front of the open end of the box or inner-tubular magazine or, when not removable, from the loading port), then
 - Re-apply spring tension to the follower, if not, cycle the action repeatedly until the feeding path is clear (close and re-open it).
 - Leave the action open.
3. **O**bserve the chamber(s) to confirm that there is no cartridge or empty casings/hulls.
4. **V**erify by inspecting the feeding path to make sure it is empty of cartridges, empty casings/hulls or foreign objects. Make certain that you see or feel the follower, if one is present.
5. **E**xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.10.2. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure, **ACTS and PROVE it safe**.
2. Select and place the correct ammunition into the magazine by matching the data stamp on the firearm with the head stamp on the cartridge or the ammunition box.
3. Put the safety **ON**, if it can be left on during the loading process.
4. Close the action by moving the lever, feeding and locking a cartridge into the chamber.
5. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is unloaded.



Always be sure of your target and beyond.

6.11. Pump-action repeaters

6.11.0. Overview

- a. The pump-action firearm is sometimes called the slide or trombone action because the fore-end of the stock is pumped back and forth to operate the action. It permits rapid reloading with a simple movement of the firearm-supporting hand without moving the muzzle away from the target. This action is most commonly used on shotguns. Either a box or a tubular magazine may be used.

- b. The **safety mechanism** on most modern pump actions is either a slide/tang or cross-bolt/button safety located in the action area. The button is usually at the front or rear of the trigger guard. The slide/tang is frequently on top of the action. The action release is also found at the trigger guard (Figure 54).

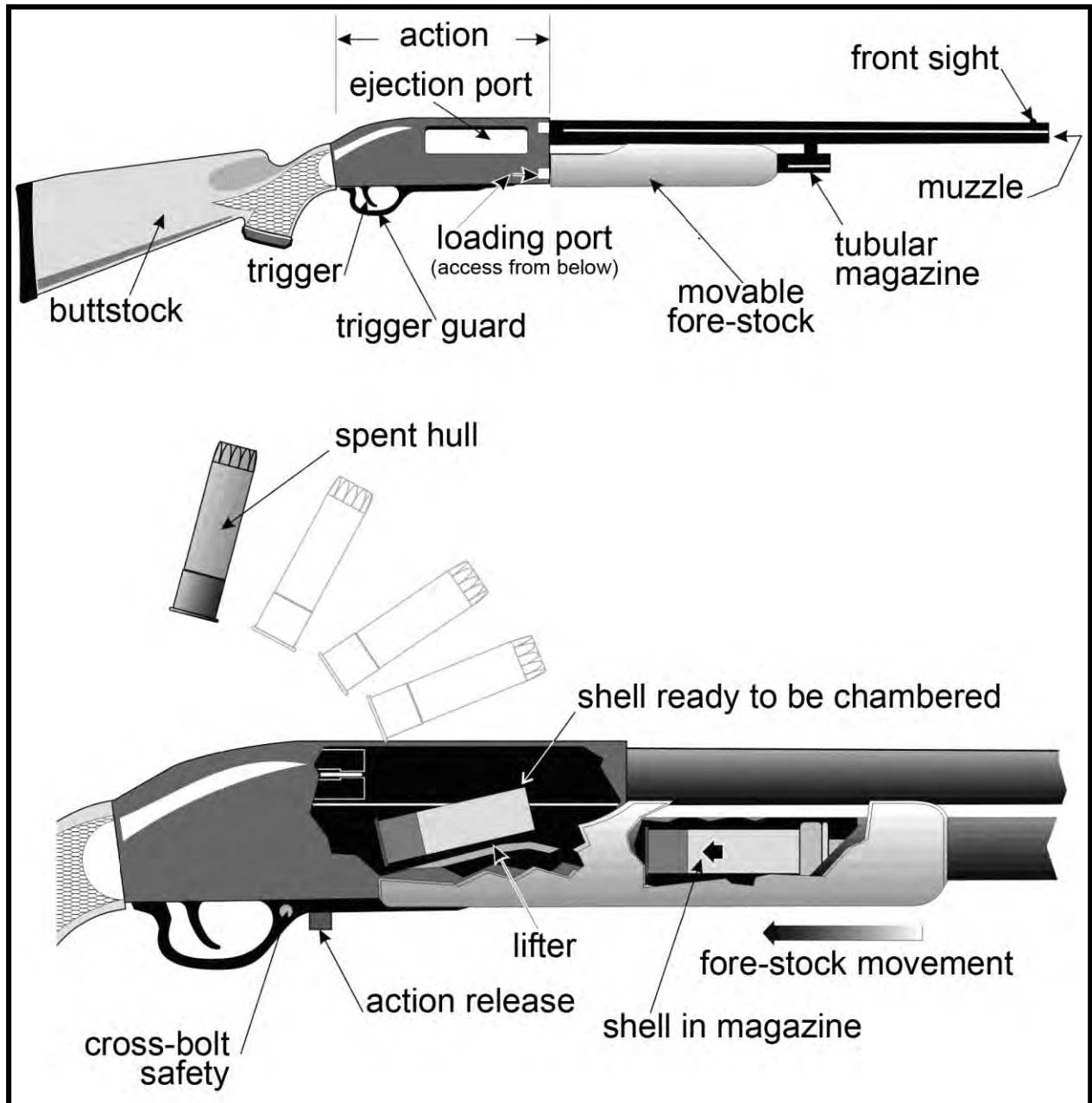






Figure 54. Pump Action

6.11.1. Unloading procedure: ACTS and PROVE it safe



Before attempting to unload a firearm, follow the Vital Four ACTS of Firearm Safety and PROVE it safe.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.
 - Make sure that nothing touches the trigger throughout this procedure.
 - Put the safety **ON**, if it can be left on during the unloading process.
2. **R**emove all ammunition as follows:
 - Open the action by depressing the action release and sliding the fore-stock to the rear. This should extract and eject any ammunition or empty casing/hull from the chamber. If not ejected, remove it by hand.
 - If the magazine is removable, remove the magazine. Remove any ammunition using gravity to make it fall out (typically from the front of the open end of the tubular magazine).
 - If ammunition cannot be removed in any other way, cycle all the cartridges through the chamber to get them out.
 - Leave the action open.
3. **O**bserve the chamber(s) to confirm that there is no ammunition or empty casings/hulls.
4. **V**erify by inspecting the feeding path to make sure it is empty of ammunition, empty casings/hulls or foreign objects. Make certain that you see or feel the follower, if one is present.
5. **E**xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.11.2. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure: **ACTS and PROVE it safe.**
2. Select and place the correct ammunition into the magazine by matching the data stamp on the firearm with the head stamp on the cartridge or ammunition box.
3. Put the safety **ON**, if it can be left on during the loading process.
4. Move the fore-stock to the forward position to close the action.
5. Cycle the action moving a cartridge from the magazine into the chamber.
6. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is unloaded.



Always be sure of your target and beyond.

6.12. Semi-automatic action repeaters

6.12.0. Overview

- a. This action can be found on rifles and shotguns.
- b. With each pull of the trigger, the semi-automatic action uses part of the energy of the expanding gas from the burning powder to extract the empty cartridge case and to reload the chamber. In other words, no hand movement is needed to load another cartridge into the firing position; each time a cartridge is fired, another is loaded into the chamber (Figure 55).
- c. Semi-automatic safeties vary considerably. The safety mechanisms commonly used are cross-bolt/button and slide/tang types. Occasionally, internal safeties such as a magazine disconnect are used. These prevent the firearm from firing when the magazine is not in place.

Magazine Capacity Limits

Part 4 of the *Regulations Prescribing Certain Firearms and other Weapons, Components, and Parts of Weapons, Accessories, Cartridge Magazines, Ammunition and Projectiles as Prohibited or Restricted*, sets out the limits for the number of cartridges permitted for different types of magazines.

For example, centre-fire semi-automatic rifles and shotguns, including “grandfathered,” full-automatics and converted full-automatics, have 5-shot magazines.

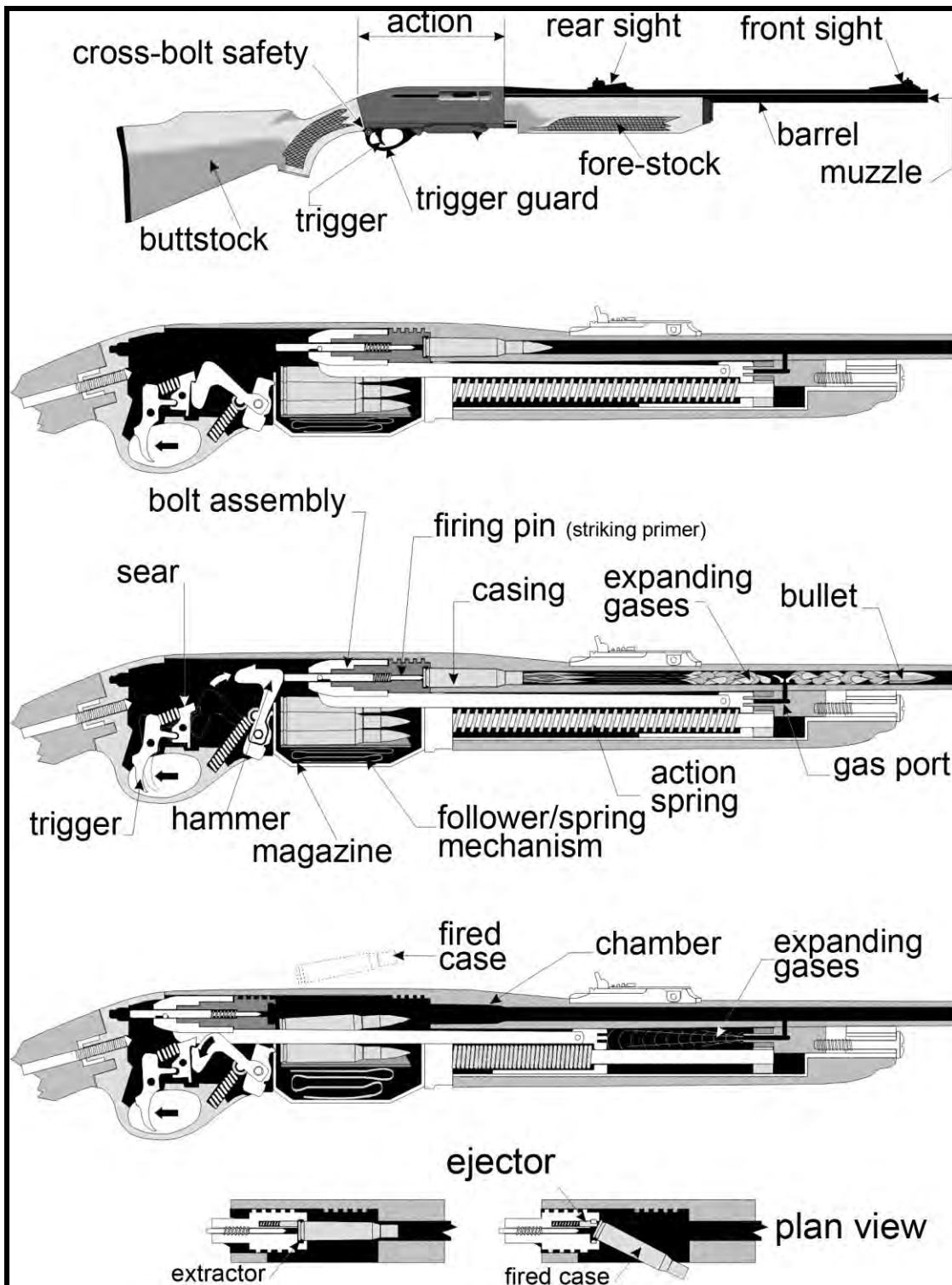






Figure 55. Firing Sequence of a Semi-automatic Rifle

6.12.1. Unloading procedure: ACTS and PROVE it safe



Before attempting to unload a firearm, follow the Vital Four ACTS of Firearm Safety, and PROVE it safe.

The Vital Four ACTS of Firearm Safety	
	<p>Assume every firearm is loaded.</p> <ul style="list-style-type: none"> • Regard any firearm as a potential danger.
	<p>Control the muzzle direction at all times.</p> <ul style="list-style-type: none"> • Identify the safest available muzzle direction. • Keep the firearm pointed in the safest available direction. • The muzzle of a firearm should not be pointed towards yourself or any other person.
	<p>Trigger finger must be kept off the trigger and out of the trigger guard.</p> <ul style="list-style-type: none"> • Do NOT put your finger on the trigger or inside the trigger guard when you pick up a firearm.
	<p>See that the firearm is unloaded—PROVE it safe.</p> <ul style="list-style-type: none"> • Do not handle the firearm unless you can properly PROVE it safe. • Check to see that both chamber and magazine are empty. Do this every time you handle a firearm, for any reason. • Pass or accept only open and unloaded firearms. It is an essential rule to adopt.

PROVE it safe

1. **P**oint the firearm in the safest available direction throughout the unloading procedure.
 - Make sure that nothing touches the trigger throughout this procedure.
 - Put the safety **ON**, if it can be left on during the unloading process.
2. **R**emove all ammunition as follows:
 - If the magazine (inner tubular or box) is removable, remove the magazine. If applicable, remove any cartridges using gravity to make them fall out (typically from the front of the open end of the tubular magazine).
 - If the ammunition cannot be removed in any other way, cycle all the ammunition through the chamber to get them out.
 - Open the action by operating the cocking device (slide or bolt). This should extract and eject any ammunition or empty casing/hull from the chamber.
3. **O**bserve the chamber(s) to confirm that there is no ammunition or empty casings/hulls.
4. **V**erify by inspecting the feeding path to make sure it is empty of ammunition, empty casings/hulls or foreign objects. Make certain that you see or feel the follower, if one is present.
5. **E**xamine the bore(s) for lubricant, rust or obstructions, every time you pick up a firearm.



The firearm is now unloaded and safe until it leaves the direct control of the person who unloaded and PROVED it safe. Direct control is defined as having the firearm within eyesight and/or arm's reach of the shooter.

6.12.2. Loading procedure



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged.

1. Prepare the firearm for loading by going through the complete unloading procedure, **ACTS and PROVE it safe**.
2. Select and place the correct ammunition into the magazine by matching the data stamp on the firearm with the head stamp on the cartridge.
3. Put the safety **ON**, if it can be left on during the loading process.
4. Replace the magazine.
5. Close the action by operating the action release, locking ammunition into the chamber.
6. Put the safety **ON**, if it is not already on.

The firearm is now loaded and ready for use. It requires continuous care and attention until it is unloaded.



Always be sure of your target and beyond.

6.13. Firearm malfunctions



Generally, when using commercially made ammunition and a properly maintained firearm, malfunctions will not occur. Firearms jammed with a cartridge or shell in the chamber(s) can be a hazard. This hazard, if not dealt with properly, may result in a serious incident. Consult a qualified person or gunsmith for information on how to perform this function in the safest possible manner with your particular firearm.

6.14. Review questions

1. Name the safety that is located on top of the receiver, which is operated by sliding it forward or backward with your thumb.
2. Name the safety where the hammer is pulled back to the first click, away from the firing pin.
3. When operating a cross-bolt safety, what indicates that the gun is ready to fire? Describe this position.
4. Name the safety which is released when the lever action is pulled tight against the stock allowing the gun to shoot.
5. Write out in full the expansion of the following two acronyms:

A –

C –

T –

S –

P –

R –

O –

V –

E –



MODULE 7:
SAFE HANDLING AND CARRYING OF NON-RESTRICTED FIREARMS

MODULE 7: SAFE HANDLING AND CARRYING OF NON-RESTRICTED FIREARMS

7.0. Overview

This section looks at personal safety protection and shows you how to safely handle non-restricted firearms in the following situations:

- entering or leaving vehicles;
- shooting at a firing range;
- outdoors; and
- shooting or hunting with a group.



Only load a firearm when you intend to use it, and only in an area where it can be safely and legally discharged. A safe practice is not to chamber a cartridge until ready to fire.

7.1. Range commands

The following are examples of typical range commands:

- “The range is active”.
- “Cease-fire”.
- “The range is no longer active”.



Range commands and signals vary between shooting sports, ranges and jurisdictions. Be sure you are aware of and clearly understand the commands used in your area. If you are unsure, ask the Range Officer (RO) or a local official before you go to the range (Appendix G: Visual Range Signals and Devices).

7.2. Personal safety protection

7.2.0. Overview

Like many active sports, shooting has the potential to cause personal injury. The careful shooter takes steps to avoid these injuries by wearing personal safety protection.

7.2.1. Sight protection

- a. There is a risk of eye injury in shooting. Shooters going through thick brush can be injured by twigs and branches. Target shooters also risk eye injury. This can come from ejected cartridge casings. It can also come from cartridge casing fragments and other debris ejected during firing.
- b. To avoid these hazards, shooters should wear safety glasses made of impact-resistant glass or polycarbonate plastic with side shields (Figure 56). They also guard against firearm malfunctions, stray shotgun pellets or bullet fragments.



Figure 56. Sight and Hearing Protection

7.2.2. Hearing protection

- a. Continued unprotected exposure to shooting noise will cause hearing loss. The noise level of a gunshot is similar to that of a jet engine taking off at close range. The need for hearing protection is obvious.
- b. Several types of hearing protection are available. On the firing range, shooters should always wear headphone-type hearing protectors (Figure 56). These protectors provide reasonable sound protection. They can also be used for years with minimum maintenance.
- c. Earplugs are available in several types. Disposable earplugs are made of foam or wax, but they can only be used once.
- d. There are also reusable earplugs made of rubber available in several sizes. They require care and cleaning after use.
- e. For maximum hearing protection, it is highly recommended that both earplugs and headphone-type hearing protectors be worn.

7.2.3. Slips and falls

- a. The risk of slips and falls may occur when handling firearms. This can best be avoided by using common sense.
- b. If you do fall, remember your first action should be to control the muzzle of the firearm.
- c. In the field, pick out the safest trail. Do not depend on surrounding branches to support your weight. Do not cross streams on wet logs or wobbly stones with a loaded firearm.
- d. Wearing deep tread high boots will reduce the possibility of slips. They will also protect your ankles and legs from cuts and scrapes.
- e. It is recommended that you wear blaze orange when hunting. Some provinces require this by law.
- f. Beware of cumbersome clothing like bulky jackets or wading boots. They can cause you to get tangled. They can also interfere with the safe handling of your firearm.



Occasionally, a hot, ejected cartridge casing may come in contact with unprotected skin. This can cause a shooter to flinch. The sudden movement could result in unsafe muzzle control or unintentional discharge. Therefore, button up the collar and sleeves of your shirt or blouse. This way, a hot cartridge casing cannot get inside.

7.3. Safety procedures on an approved range

Every range has rules of safe behaviour. These may vary but will normally include the standard ones shown below:

- The muzzle must always be pointed down range.
- The action of any firearm must be open at all times, except when actually shooting.
- Firearms must only be loaded, unloaded and discharged at the firing line.
- No firearm is loaded until the command to load is given by the RO.
- Fingers must be kept out of the trigger guard and off the trigger until the firearm is pointed down range.
- Upon the command “cease-fire,” all firing stops at once. Firearms are unloaded. Actions are opened. Firearms are laid on the mat or on the table. Their muzzles point in a safe direction down range. The shooter steps back from the firing line, behind the “cease-fire” line.
- The RO will inspect each firearm before allowing anyone to go forward of the firing line.
- During a “cease-fire,” no one will handle firearms or ammunition or return to the firing line. At this point, wait for further range commands before any further activity. Persons not engaged in changing targets down range should stand well behind the cease-fire line.
- Use hearing and sight protection.

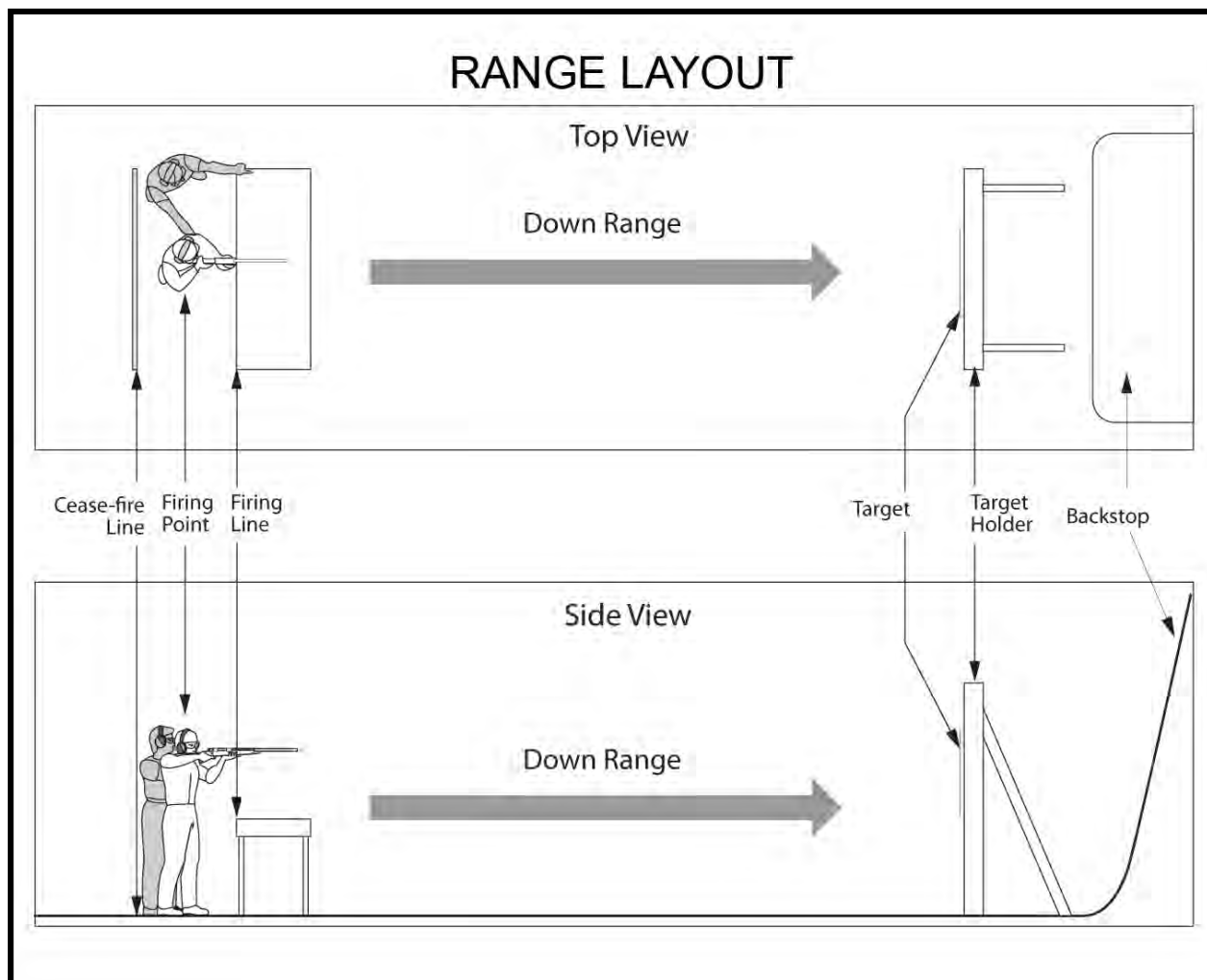


Figure 57. Range Layout with Direct Supervision

7.3.1. Additional range safety suggestions



In an emergency, anyone can call a “cease-fire.”

There are other rules we recommend you follow:

- Minors and guests, who do not have a valid firearms licence, must be under direct and immediate supervision while shooting. Check with your range for any further restrictions.
- Firearms should be checked by the RO on the “cease-fire.” This is to be sure that all actions are opened and no cartridges are in the breech.
- Unloaded firearms not in use are to be placed in the designated area with the action open or kept in a case. They should be moved with the muzzle pointed in the safest available direction or cased at the firing line.
- Never allow horseplay, careless handling of firearms or any other distraction while shooting is in progress.
- Make sure that you are using the correct ammunition for your firearm, and as approved by the range.
- Never shoot at target holders or other range equipment.
- Do not discharge firearms outside of designated range property or posted range use times.

Direct and immediate supervision is defined as the supervisor being within arm’s reach of the shooter at all times when shooting activity is being supervised.



Where shooting activities are regularly scheduled, the CFO for a province or territory must issue an approval under the authority of the *Firearms Act*. Such ranges are subject to rules and procedures that may differ from province to province. Check with your local authorities.

7.4. Range courtesy

There are certain standards of range courtesy. Rules and procedures vary between ranges. Check and obey local rules. Some of these standards are listed below:

- There should be a safety briefing before starting.
- Sign in to the firing range upon arrival, if required.
- Avoid interrupting or distracting others when they are shooting.
- Do not smoke on the firing line.
- Ask the owner's or shooter's permission before handling that person's firearms or equipment.
- Leave enough space between you and others to ensure safety.
- If firing particularly smoky firearms, shoot from downwind of other shooters on the firing line. Black-powder firearms are especially smoky.
- Do not fire on other people's targets, targets not directly down range from yourself or any target that may disturb others.
- Those firing semi-automatic firearms should take a firing point where other people will not be disturbed by ejected casings.
- Rapid firing may disturb shooters sighting-in or doing deliberate target work.
- When the line is clear, clean up after shooting, pick up cartridge casings and take down targets.
- Put away any range-owned equipment you have used, i.e., sandbags or bench rests.

7.5. Safe handling of firearms in vehicles

- a. The word **vehicle** may include boats, cars, recreational vehicles, snowmobiles, sleds, private aircraft, and/or all-terrain vehicles, depending on your particular jurisdiction.
- b. When handling firearms around any type of vehicle, follow the steps below:
 1. **Never have a loaded firearm in or on any vehicle unless you are allowed to shoot from that vehicle.** Unload before entry. Load only after leaving.
 2. It is especially difficult to control muzzle direction when entering or leaving vehicles. Take extra care to point the muzzle in the safest available direction at such times.
 3. When a firearm is in a vehicle, it must be placed in a secure position where it will not be dislodged or stepped upon.



Check with provincial or territorial authorities in your area. They can inform you of how the transportation of firearms is regulated locally.

Example of an Incident

A duck hunter placed his loaded shotgun into his boat and climbed in. His dog then jumped into the boat, landing on the shotgun. The firearm fired, fatally shooting the hunter in the stomach.

Contributing factors:

- unsafe muzzle direction;
- loaded firearm in a vehicle; and
- firearm in an unsecured position.

7.6. Safe handling of firearms outdoors

- a. Always remember that people or livestock you cannot see may be close enough to be injured. Be aware of the dangerous range of your firearm and ammunition.
- b. Control the muzzle direction at all times. Keep the safety ON until you are ready to use the firearm.
- c. Under all circumstances, protect the trigger and safety while carrying your firearm. A twig or branch may catch the trigger, put the safety off, or swing the muzzle around.
- d. When carrying a firearm, remember that you can slip and fall causing a discharge. Plan how to protect the firearm and control its direction if you fall, and if possible, unload it before crossing uneven ground or ice.
- e. Always be sure of your target and beyond. Don't shoot at game near the top of a hill. People or livestock may be in the line of fire over the hill. Never shoot near a building without permission. Someone may be using it as a shelter.
- f. Water, rocks or flat surfaces may cause the bullet to break up or ricochet. Use caution.
- g. When you cross a fence or other obstacle, unload your firearm and leave the action open. The same goes for areas that are slippery, rocky or uneven.
- h. When crossing a fence alone, unload the firearm and place the firearm under the fence. Make sure the firearm is flat on the ground with the action open and the muzzle pointed away from where you are crossing.
- i. If you are in a group, one person should stand away from the crossing point. This person should hold the unloaded and open firearms while the others cross the obstacle.
- j. When hunting alone from a pit or blind, unload your firearm and place it outside before entering. Then enter and bring the unloaded firearm into the pit or blind after you.
- k. Remember to check your firearm for dirt if you lay it on the ground. This is especially important for the muzzle.



Use binoculars if you need to see something more clearly. Never use a scope mounted on a firearm as a substitute for binoculars to identify persons, animals or objects.

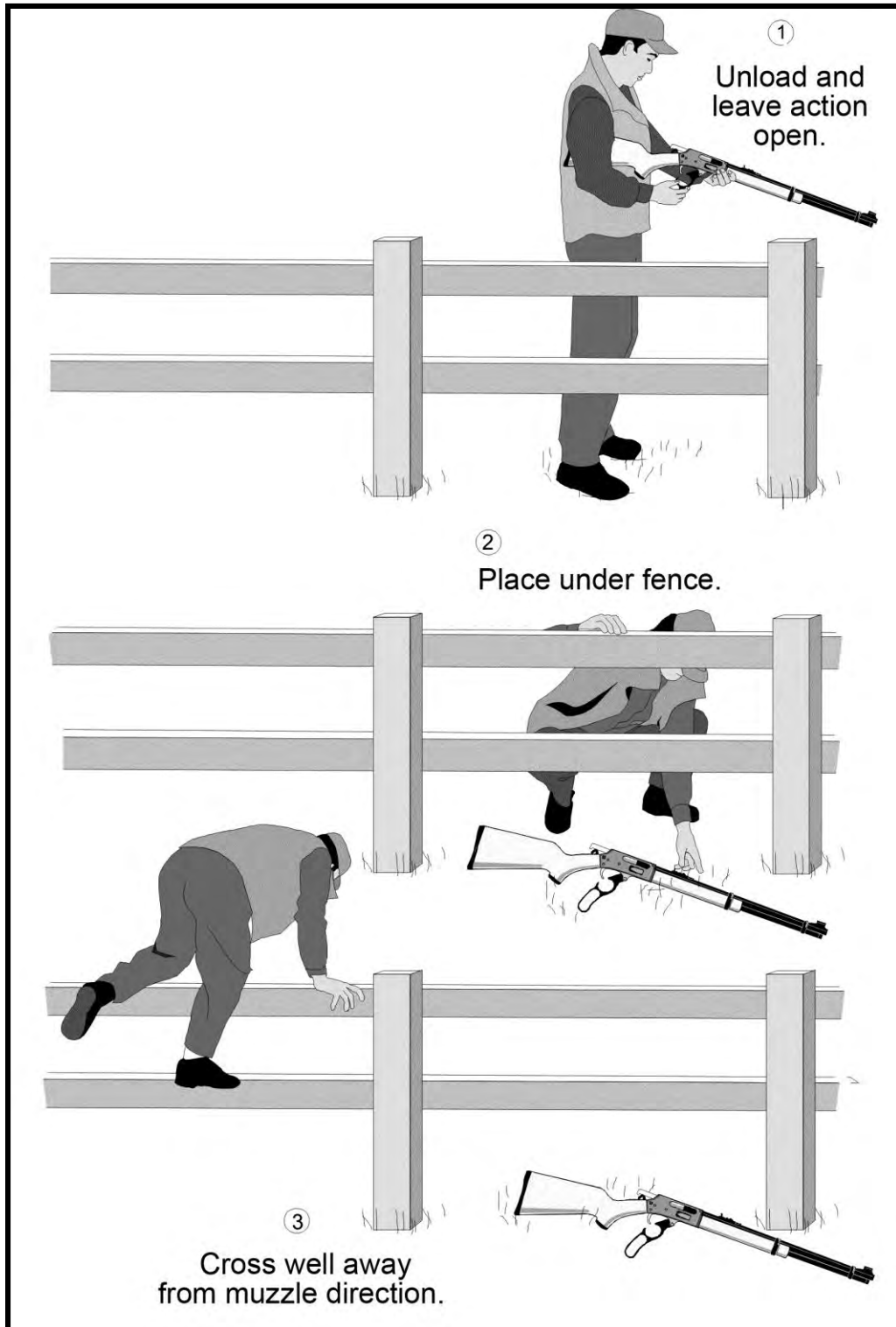


Figure 58. Individual Crossing a Fence Safely

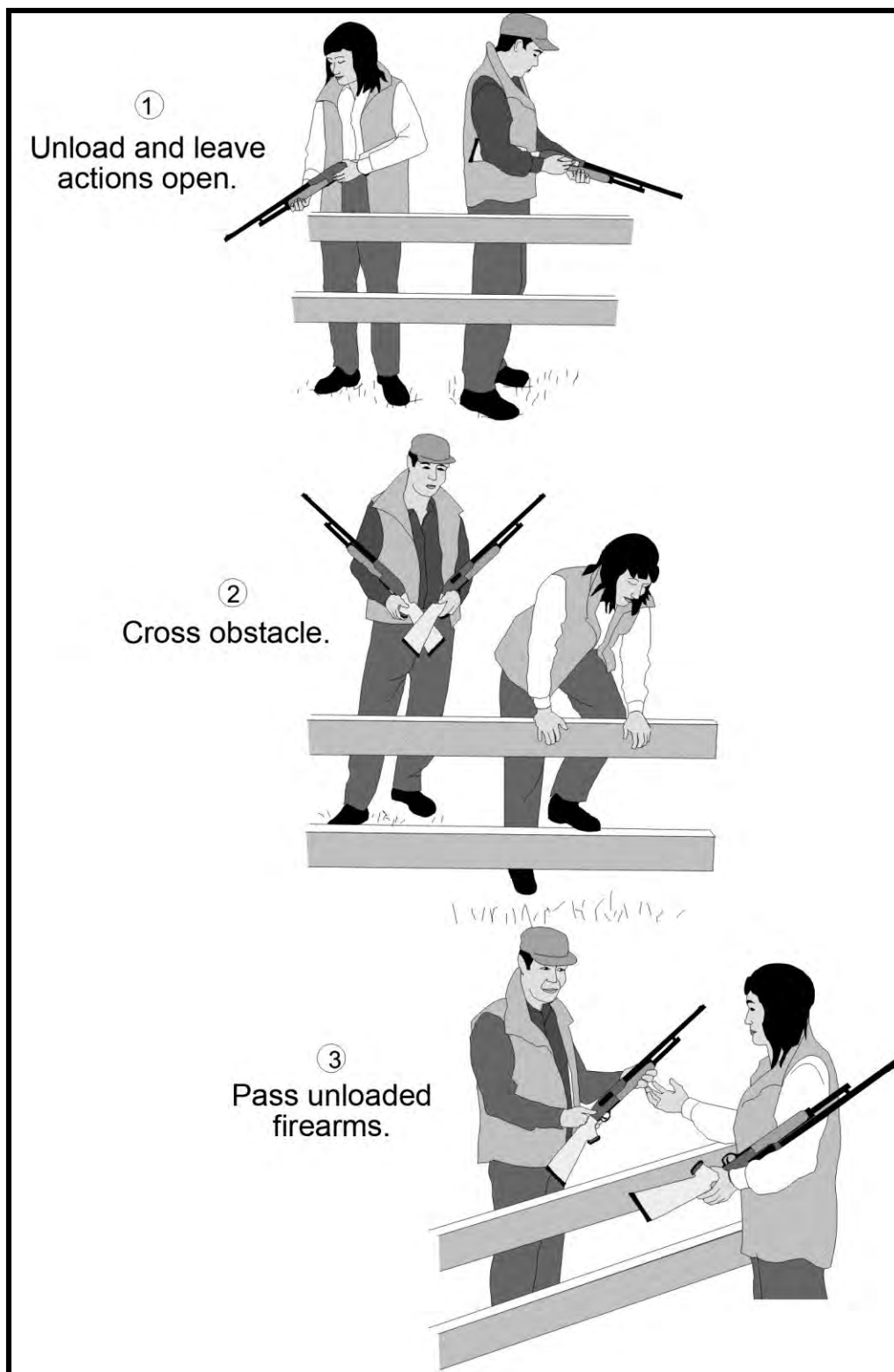


Figure 59. Group Crossing a Fence Safely

7.7. Shooting or hunting with a group

7.7.0 Overview

Any shot fired in the wrong direction might hit another person in your group. Make sure safe zones of fire are established to prevent such incidents. It is very important to follow the safety rules in this Handbook. The rules below are especially important for shooting or hunting with a group.

7.7.1. Informal firing line

An informal firing line is an effective method to use when sighting-in or shooting in a field, with a group of two or more people. Follow these basic safety steps below:

1. Appoint someone as the RO. This person will be responsible for supervising all of the following steps.
2. Follow the normal range commands and procedures.
3. Set up a firing line. Firearms may only be uncased, handled and loaded at this firing line. This must be done under the RO's direction.
4. Be sure that the appointed RO explains the procedures to everyone in the group.
5. Decide on a safe shooting zone for each shooter. Make sure there is a safe backstop. This will be the only direction in which muzzles can be pointed and firearms fired.

7.7.2. Safe zones of fire

- a. It is worth emphasizing again. Any shot fired in the wrong direction by a group member might hit another person. This is true for all shooting situations. Before starting, everybody should agree on which area each shooter will cover in order to prevent this (Figure 60). This will clearly define each individual's safe zone of fire.
- b. Positions change when you advance through the field. You should always know exactly where your shooting partners are. Guard both them and yourself against being unintentionally shot.

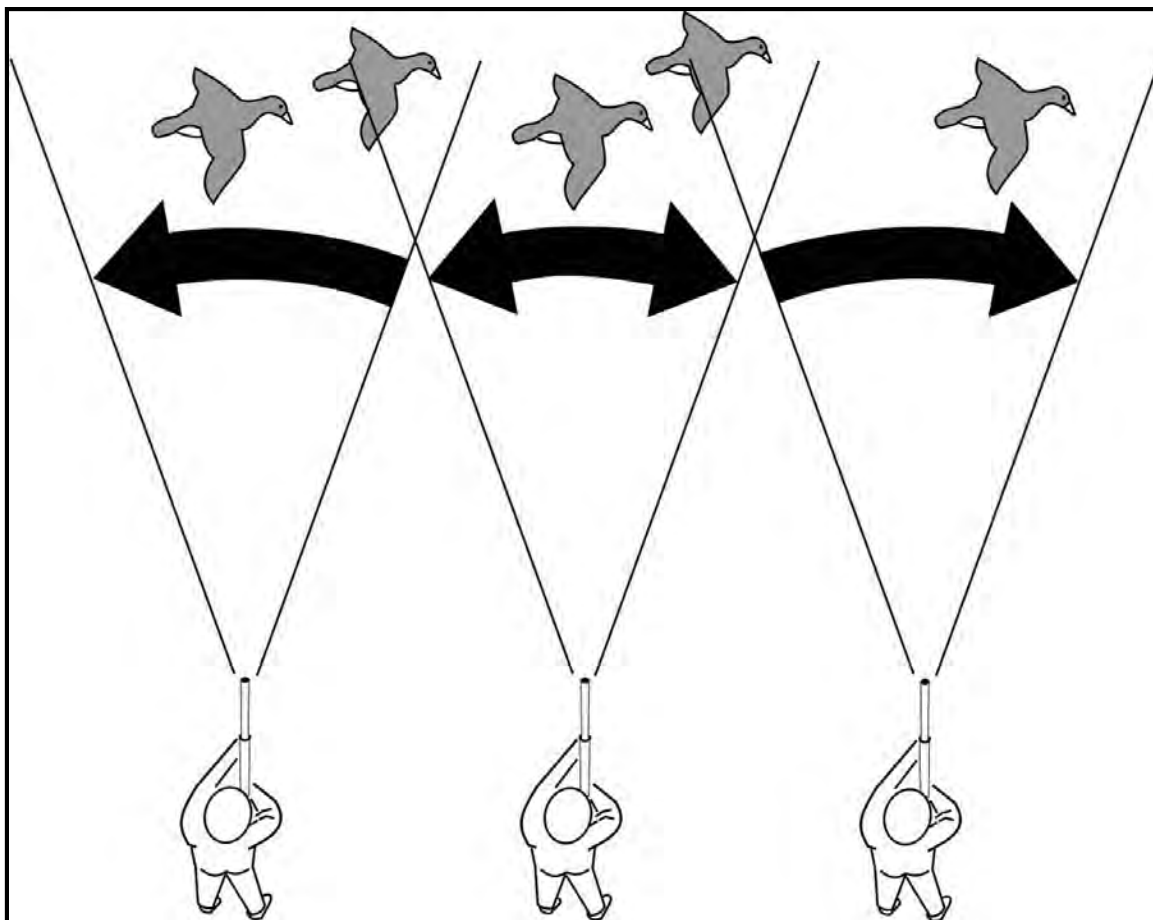


Figure 60. Safe Zones of Fire



Always know exactly where your shooting partners, or others, are.

7.8. Carrying positions

Muzzle direction is all-important when carrying firearms. You can control muzzle direction safely if you use proper carrying positions. When carrying firearms, you must always be aware of the possibility of slips or falls.



Figure 61. Two-hand or Ready Carry

Two-hand or ready carry

The two-hand or ready carry is the safest carry for shooters. It gives you the best control of the firearm and muzzle and also allows you to get into shooting position quickly.

Cradle carry

The cradle carry is a safe carry when shooting alone. However, in this carry, the muzzle points to one side. The other person has to walk on the opposite side of the muzzle.



Figure 62. Cradle Carry



**Figure 63. Elbow or Side Carry
(action open)**

Elbow or side carry

The elbow or side carry is safe when walking in open terrain. However, do not use the side carry when walking through bush. Branches can get tangled around the firearm and push the barrel towards you. Do not use the side carry when others are ahead of you.

Trail carry

The trail carry is best used when you are alone or standing still. Otherwise, it is not recommended.



Figure 64. Trail Carry

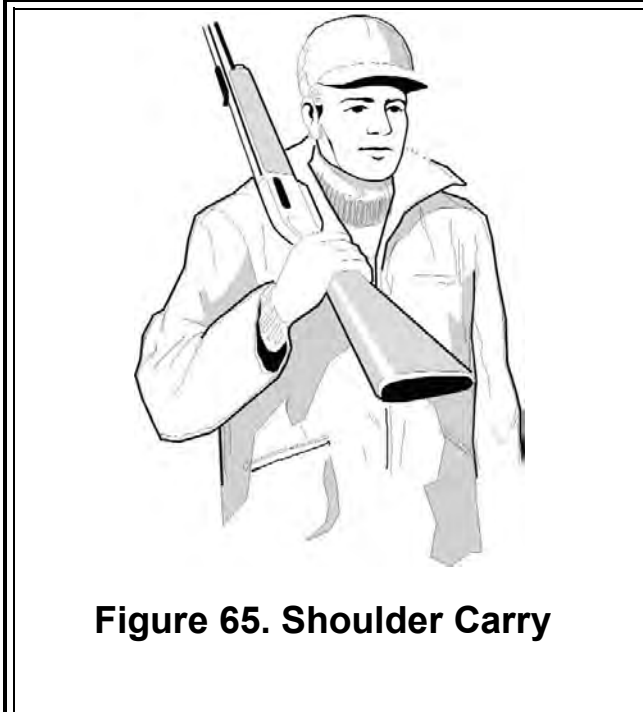


Figure 65. Shoulder Carry

Shoulder carry

The shoulder carry is the least safe of all carries. In a fall there is poor muzzle control. It must not be used for loaded firearms. Special care must be taken to keep the muzzle pointed upward. Do not use this carry when others are with you.

Sling carry
The sling carry leaves both of the hunter's hands free. However, do not use this carry when walking in dense bush. Your firearm may get caught in brush and be pulled off your shoulder. Also, twigs and other debris may fall into the upright barrel. If the hunter bends sharply forward, this carry is dangerous to those in front.

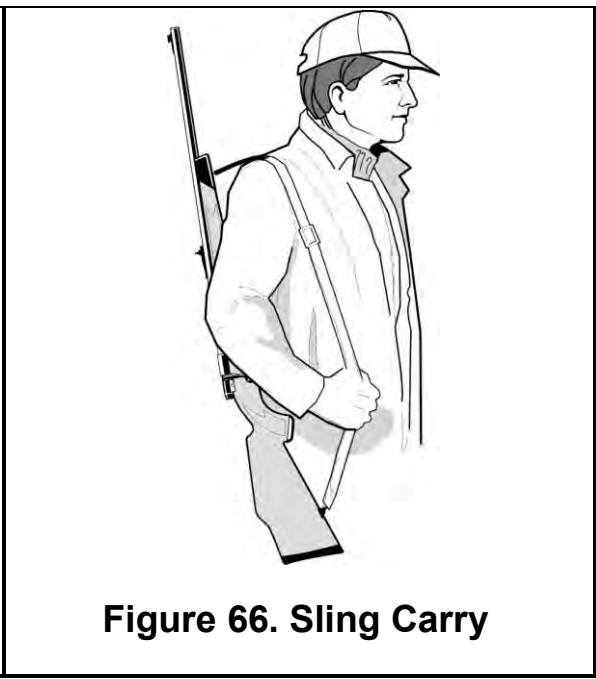


Figure 66. Sling Carry



Which carry you use will depend on where your companions are and the kind of terrain that you are walking on. Never use a carry that will cause the muzzle to be pointed at another person.

7.9. Review questions

1. List the two items of personal protective equipment one is required to wear before entering a gun range.
2. List the four procedures to follow when the “cease-fire” command is given.
3. What direction is safe to point your firearm, when on the firing line?
4. What is the supervision responsibility for minors on a gun range?
5. You must agree on who shoots where, when shooting outdoors with a group. This is called the...?
6. List the carrying positions for firearms and their direction of discharge if the firearm was to accidentally fire.



MODULE 8:
FIRING TECHNIQUES AND PROCEDURES
FOR NON-RESTRICTED FIREARMS

MODULE 8: FIRING TECHNIQUES AND PROCEDURES FOR NON-RESTRICTED FIREARMS

8.0. Introduction to marksmanship

- a. Marksmanship is the ability to hit your mark or target. Good marksmanship is important for safe shooting. If you are not certain where the bullet will go, how can the shot be safe?
- b. Marksmanship depends on many factors, including anticipation, shooting position, aim, trigger control, controlled breathing and follow-through. These factors are discussed in this module.

8.1. Anticipation

When using a firearm, you must always be thinking about the possible situations and shots that may occur. The following are some examples:

- Will game appear suddenly?
- Where are the others in my shooting group?
- Is there a chance that the bullet will be deflected by a tree, a rock or water?
- Could someone be just over that hill?
- Where will the bullet go if it passes completely through the target?



Always judge the possible results of every shot carefully before firing.

8.2. Shooting positions

8.2.0. Overview



If you are left-handed, reverse the procedures for each shooting position. Left-handed shooters should consider using firearms that are manufactured specifically for left-handed use.

8.2.1. Rifles

The four shooting positions for rifles are as follows:

1. standing position;
2. kneeling position;
3. sitting position; and
4. prone position.

Standing position

- a. The standing position is the least stable shooting position from which to fire.
- b. To shoot from the standing position, first, turn your body approximately 45° to the right of the target. Place your feet shoulder width apart. Support the rifle with your left arm and hand. Hold the left arm against your body for extra support where possible. Hold the stock firmly against your shoulder with the right hand. Keep holding the rifle firmly but not tightly.
- c. If there is too much movement, do not shoot. Rest or support the rifle on a stable object such as a tree or large rock. In such situations, padding beneath the firearm is recommended. Using a sling will help steady your shot.



Figure 67. Standing Position

2. Kneeling position

- a. The kneeling position is better than the standing position but not as steady as either the prone or the sitting positions.
- b. Turn to about a 45° angle to the target. Kneel on your right knee and place your left foot slightly forward. Sit on the heel or the side of the right foot. Place the left elbow near you but not on the bony part of the left knee, as far under the rifle as you can.



Figure 68. Kneeling Position

3. Sitting position

- a. The sitting position is one of the steadiest shooting positions.
- b. Sit solidly on the ground, with your legs crossed or open, and your body positioned about 30° to the right of the line of aim.
- c. Place your left elbow near, but not on, the bony part of the left knee. Tuck the elbow as far under the rifle as possible. Place the right elbow on or near the right knee.
- d. Hold the rifle firmly but do not grip it tightly. If bracing your body against a tree or rock to steady your aim, be careful that the recoil will not force you against the support.



Figure 69. Sitting Position

4. Prone position

- a. **The prone position is the steadiest shooting position.**
- b. It is good for firing accurate long distance shots if tall grass or dense brush does not obscure the line of sight to the target.
- c. Lie on your stomach with your body angled slightly to the left of the line of aim. Keep your back straight and legs in a relaxed position. The right leg should be bent slightly. Both elbows should be bent and your shoulders curved slightly forward to form a solid upper-body position. The upper body and arms support the rifle weight.
- d. When shooting, you can use a rifle sling for extra support. Hold the rifle grip with the trigger hand. Place your opposite arm through the sling as far as it will go. Swing your arm in an outward circular motion, ending with your hand under the fore-stock of the rifle and the sling across the back of your hand.



Figure 70. Prone Position

8.2.2. Shotguns

- a. Shooting a shotgun is different from shooting a rifle. With a rifle you aim precisely. With a shotgun you point at the target (Figure 71). Some shotguns are equipped with adjustable sights and are primarily used to fire slugs.
- b. Accurate shotgun shooting requires you to make a fast but smooth series of movements of the eyes, body and firearm. To achieve this, stand like a boxer: feet spread apart, well-balanced, arms and body free to swing right or left. This position allows rapid movement.
- c. When firing, shift your body weight to the leading leg. The leading hand holds the shotgun fore-stock and points naturally to the target area. Point the shotgun at the target and slap the trigger. With moving targets, continue to follow through as you fire. Otherwise, the shot will miss behind the target.
- d. Naturally, this does not apply when hunting with a rifled barrel.

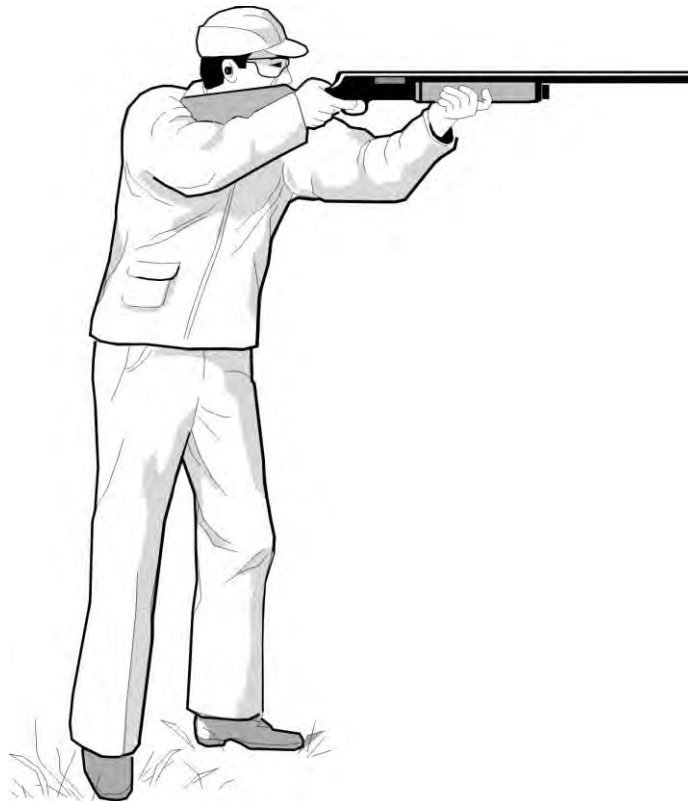


Figure 71. Shotgun Shooting Position

8.3. Aiming your firearm

8.3.0. Overview

- a. Most sights are mounted on the top of the barrel (Figure 72). Their purpose is to help the shooter aim accurately.
- b. There are four main types of sights:
 - open sights;
 - peep sights;
 - telescopic sights; and
 - electronic sights.
- c. Rifles and shotguns may have any of these types.
- d. Most shotguns only have a bead mounted on the front of the barrel. This serves as a front sight. Your eye becomes the rear sight.

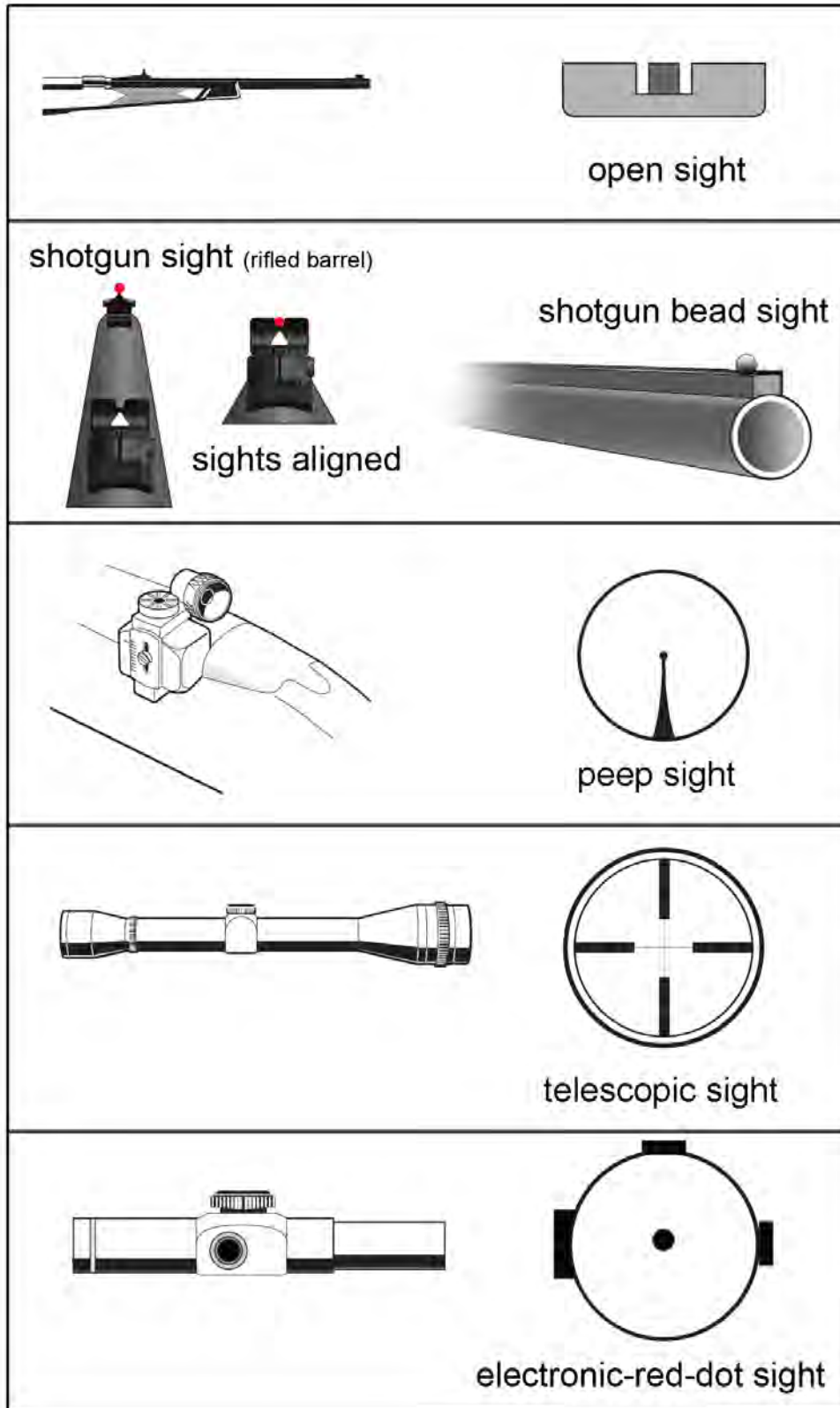


Figure 72. Types of Sights

8.3.1. Aiming rifles



All firearms must be sighted-in for the individual prior to use.

- a. Use your master eye for sighting. It is the stronger of your two eyes and will judge speed and range. It will focus more accurately (see section 8.4.1).
- b. You must also learn to correctly use your firearm's sight if your aim is to be accurate. Open sights require you to physically line up both rear and front sights with the target. This process is called **sight alignment**. When you aim any sight at a target, a **sight picture** is created.

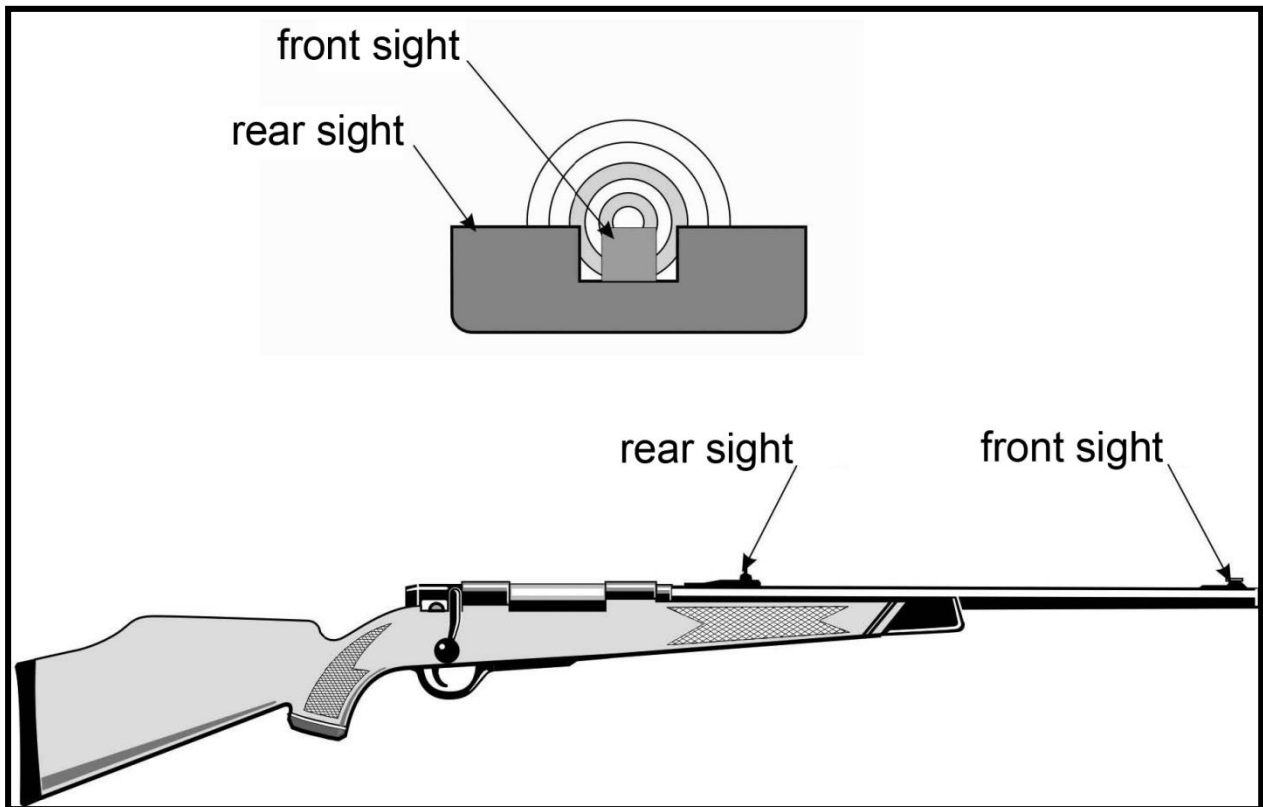


Figure 73. Open Sights Aligned on a Target

- c. Scope and electronic red-dot sights do not require conscious alignment. Scope sights also have the advantage of magnifying your view of the target.

- d. When preparing to aim through a scope or electronic red-dot sight, do not look away from the target and then try to find the target again by looking through the scope. Instead, while steadily watching the target, mount the firearm correctly to your shoulder pointing the firearm toward the target area until the scope comes up naturally between your eye and the target. Keep your eye well clear of the sight when firing.



Scope sights have a very narrow field of view, so you might not see a person or object coming into the path of your shot. Never use a mounted scope as a substitute for binoculars to identify persons, animals or objects.

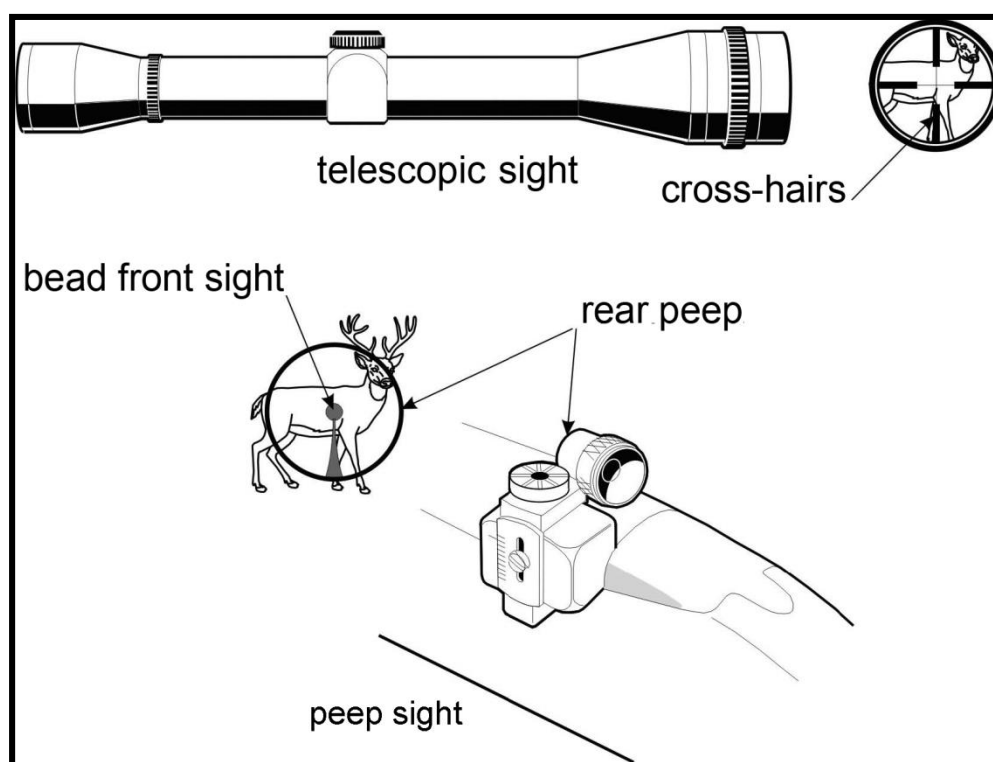


Figure 74. Aperture and Scope Sights Aligned on a Target

8.3.2. Pointing shotguns

- a. Pointing a shotgun is different from aiming other firearms. With a rifle, you must aim precisely. With a shotgun, you point at the target. When a shotgun is fired, the shot pellets spread out after leaving the barrel and hit a larger area than a single bullet. Therefore, precise aiming is not as necessary as with a rifle.
- b. When using a shotgun, keep both eyes open. Focus on the moving target, not on the firearm barrel or the bead sight. While watching the target, place the shotgun to your shoulder and point it toward the target area. Be sure to place the stock against your cheek first, then against your shoulder. This positions the firearm in exactly the same position each time you shoot.
- c. Some shotguns are equipped with adjustable sights and are primarily used to fire slugs. For this type of shotgun, use the same aiming techniques as you would for a rifle.

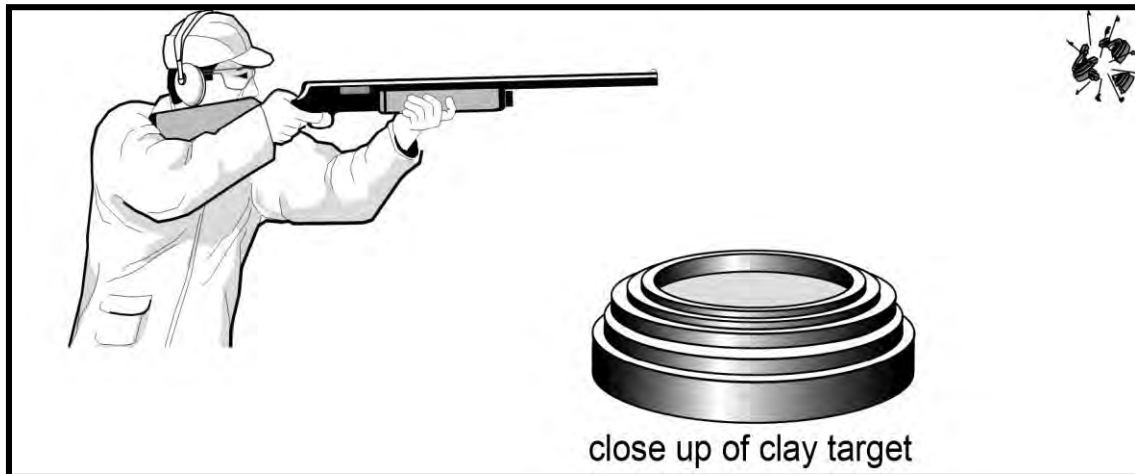


Figure 75. Shotgun Sight Alignment

8.4. Fundamentals of shooting

8.4.1. Sight alignment



To find out which is your master eye, create a triangle using both hands as illustrated in Figure 76. With both eyes open, view an object in the distance from the centre of the triangle. With both eyes remaining open, and keeping the object within the triangle, close the left eye and then open the left eye. Then, close the right eye and then open the right eye. The master eye will keep the object in the centre of the triangle.



Figure 76. Determining your Master Eye

8.4.2. Breathing as it relates to shot release

- a. Holding one's breath is not natural. It's not possible to judge how much air is held for each shot release, since there is no gauge on the lungs. The shot must be released in the natural pause of the breathing cycle.
- b. We breathe in, we breathe out. There is a natural pause at the bottom of each exhale. It is this natural pause (2.5 seconds) that the shot must be released in. In order to lengthen this natural pause, the shooter has to breathe in deep, force the breath out deeper than normal, breathe in deep again, this time let the breath out normally. The natural pause in the breathing cycle has just been increased to approximately 8.5 seconds. That is plenty of time to confirm sight picture and release the shot, if not, just repeat the process. Breathe in deep, force it out, breathe in deep again, let it out NATURALLY and squeeze the shot off.
- c. Figure 77 has been in circulation for over forty years. Unfortunately, some people will sometimes misinterpret it and wrongfully revert to holding their breath.

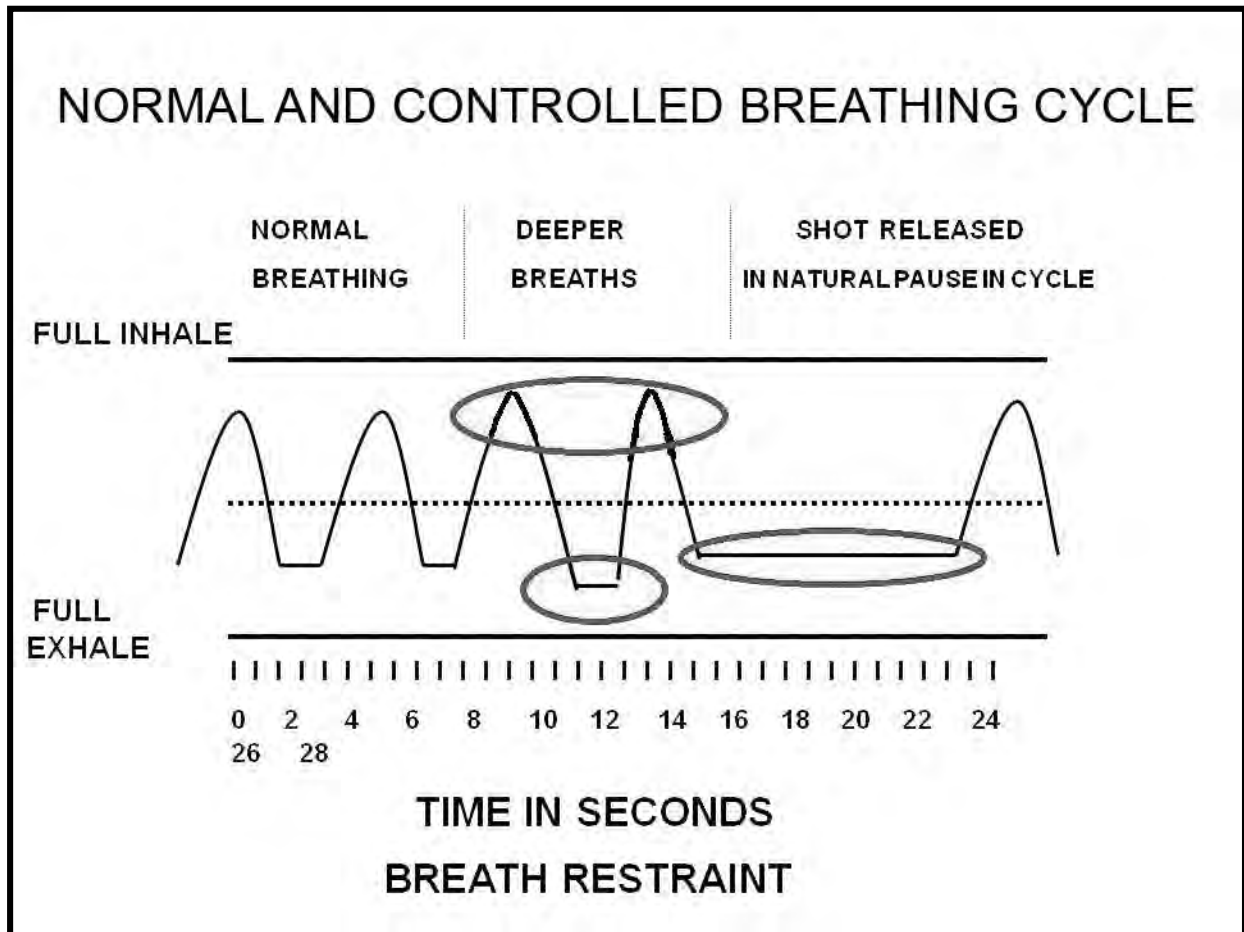


Figure 77. Normal and Controlled Breathing Cycle

8.4.3. Trigger control

Trigger control is essential for accurate shooting.

a. Rifles

When the sights are aligned on the target, squeeze the trigger slowly and steadily. Avoid yanking or pulling. Anything other than a smooth squeeze will cause the firearm to move and send the shot off target. Relax before the firearm fires to allow each shot to happen almost as a “surprise.”

b. Shotguns

Shotgun triggers are slapped instead of squeezed. The trigger slap is similar to the action of striking a typewriter key. Slap the trigger quickly, but not hard.

8.4.4. Follow-through

This means maintaining your sight picture and/or shooting position after discharging the firearm. If you do not follow-through, it is more likely that your shot will be “off target.”

8.5. Targets

8.5.1. Acceptable targets

- A target that is positively identified
- A target that is safe to shoot at
- A target that can be lawfully shot

8.5.2. Unacceptable targets

- A target that you are not sure of, cannot clearly see and cannot identify
- A target that cannot be shot safely
- A target that is not legal to shoot



Check with local or provincial authorities for specific rules and regulations.

8.6 Review questions

1. It is important to always judge the possible results of every shot carefully before firing. True or false?
2. Name the four shooting positions for rifles.
3. Describe the importance of determining your master eye.
4. What is an acceptable target?
5. Why is trigger control essential for accurate shooting?



MODULE 9:
CARE OF NON-RESTRICTED FIREARMS

MODULE 9: CARE OF NON-RESTRICTED FIREARMS

9.1. Firearm servicing



Ensure that all firearms are unloaded and **ACTS/PROVE** it safe before attempting to clean. Refer to Module 6 for information on unloading procedures. **ACTS** and **PROVE** it safe.

- a. Always be sure your firearm is functioning properly. A firearm that does not work properly is an unsafe firearm.
- b. This module on minor maintenance and servicing procedures for your firearm is included for general information only. Specific information on cleaning and servicing your firearm is available in your firearm owner's manual, at a gun shop or from a gunsmith. Incidents can occur if these procedures are not performed correctly.
- c. Firearms are precision instruments. Even minor repairs should be made by qualified individuals. Unqualified persons should never try to repair or modify any firearm.
- d. The average user should do basic cleaning and lubrication only.

Example of an Incident

Someone was preparing to clean a loaded firearm with the action closed, and dropped it. The rifle fired when it hit the floor. Someone in the next room was killed.

The contributing factor was as follows:

- failing to **ACTS/PROVE** the firearm.

9.2. Firearm cleaning

9.2.0. Overview

- a. Information on cleaning firearms safely may be obtained from your firearm owner's manual. If you do not have one, contact the manufacturer. Incidents can happen if the cleaning procedure is not performed correctly.
- b. The two major threats to firearm safety are the following:
 - rust caused by moisture and condensation; and
 - excessive build-up of residue or rust in the firearm.
- c. Either may cause excessive pressure, damaging the barrel. This is why regular cleaning is recommended.
- d. The barrel of a firearm should be cleaned after every use. This will protect its finish. It will also help keep it in good working order. For instructions on cleaning the rest of the firearm, consult your owner's manual.
- e. Modern smokeless primers and powders are non-corrosive. However, some older military surplus ammunition still contains corrosive chemicals. If you use corrosive ammunition, you should clean your firearm immediately after you use it.
- f. Any firearm that has been stored for a long time must be cleaned thoroughly before use. Cleaning before using is required when the firearm has been exposed to moisture or dirt.



If cleaning your firearm requires disassembly, consult your owner's manual. You should wear safety glasses when cleaning or disassembling a firearm. Oil or moisture can be very dangerous in cold weather. They may cause safeties and other firing mechanism parts to freeze in a firing position. Later, when the firearm thaws, it may fire. Residue or rust in the chamber or barrel may cause serious pressure build-up. Also, oil may mix with unburnt powder and other dirt, causing the firearm to jam.

9.2.1. Cleaning materials

- a. To clean a firearm properly, you need the following materials:
 - a cleaning rod or a pull-through and attachments (be sure to use the right size for the firearm), such as:
 - a bore brush,
 - tips to hold cloth patches;
 - patches;
 - powder solvent (also called “bore cleaner”);
 - gun oil; and
 - a soft cloth.
- b. If possible, clean your firearm from the breech toward the muzzle. Avoid cleaning from the muzzle toward the breech (Figures 78 and 79).
- c. However, you may have to clean some types from the muzzle end. In this case, lock the breech open. This permits the passage of the cleaning rod completely through the barrel. You will find a pull-through cleaning device helpful. Avoid rubbing the cleaning rod on the muzzle. Damage to the muzzle may occur. It is beneficial to insert a cloth into the open action to collect residue, to prevent dirt from entering the action, and to prevent damage to the firearm.
- d. When cleaning a bolt action, remove the bolt, if possible. Clean the firearm from the breech end. Some firearms are easier to clean if you remove the barrel first.



While cleaning a firearm, remember and follow the Vital Four ACTS—PROVE it safe. The following additional recommended practices for home safety with firearms might prevent incidents:

- **Make sure no ammunition is nearby during cleaning.**
- **Never allow a loaded firearm in any building or living area.**
- **Always give cleaning your firearm your full attention. Never clean a firearm while doing something else, like watching television.**

9.2.2. Cleaning procedures

The firearms cleaning procedures are as follows:

1. ACTS and PROVE it safe.
2. Attach the bore brush to the cleaning rod. Apply bore cleaner to the brush.
3. Run the brush through the bore of the firearm barrel several times. Be sure that the brush sticks out from the barrel completely. Then, draw it back through the barrel (Figure 78).
4. Remove the bore brush from the cleaning rod. Attach a patch-holder tip and a proper size cloth patch. Pour solvent on the cloth patch. Run it through the bore several times. Remove the cloth patch from the rod tip.
5. Next, run a clean, dry patch through the bore several times.
6. If the patch comes out dirty, repeat the first four steps. Do this until a patch finally comes through clean.
7. Next, run a lightly oiled patch through the bore. Use only light gun oil.
8. Wipe the outside of the firearm with a clean cloth and apply a light coat of gun oil or rust preventative to the metal surfaces. You should also maintain the condition of the stock by applying the appropriate treatment (consult the owner's manual).
9. Always store your firearm properly.
10. Don't forget to clean your magazine.
11. Remember, before the next firing of the firearm, run a dry patch through the barrel to remove any oil.



Make sure you wash your hands after the cleaning procedure.

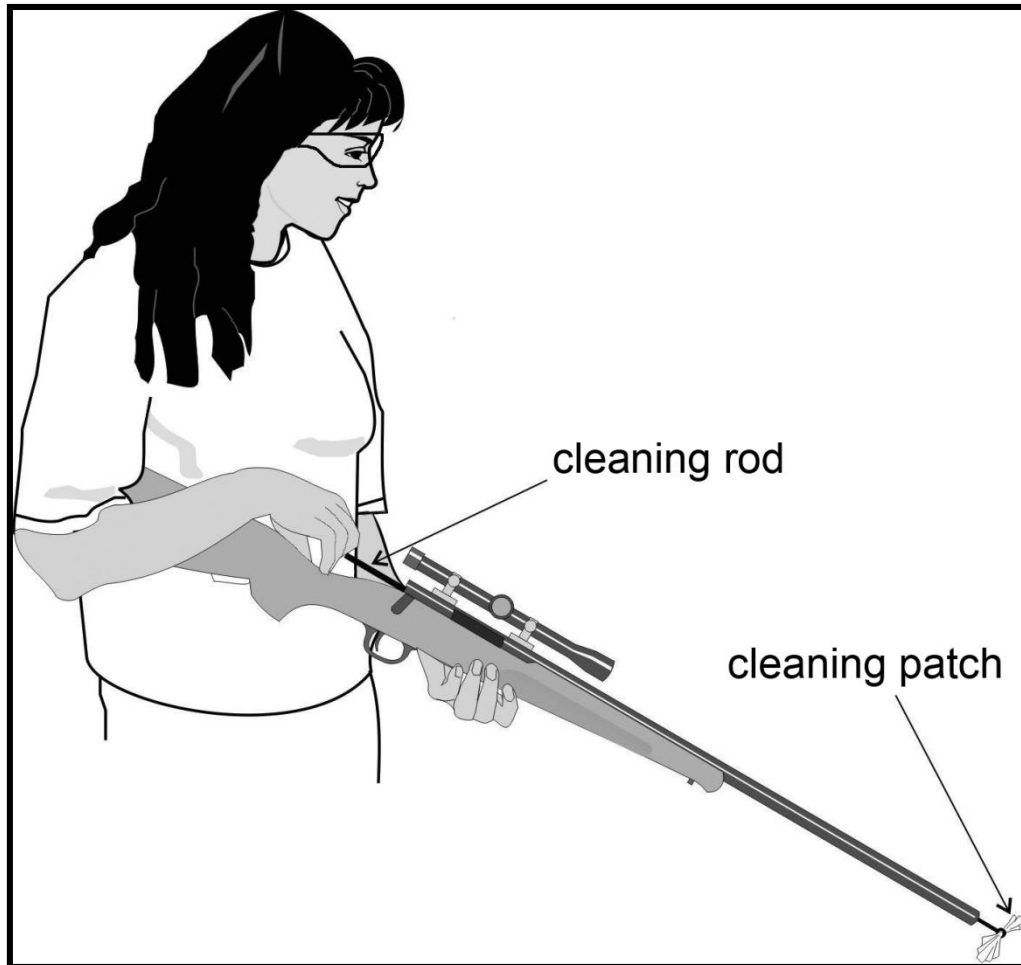


Figure 78. Cleaning a Rifle Barrel from the Breech to the Muzzle



After cleaning a firearm for storage, avoid skin contact with metal parts. Acids in perspiration can cause rust.

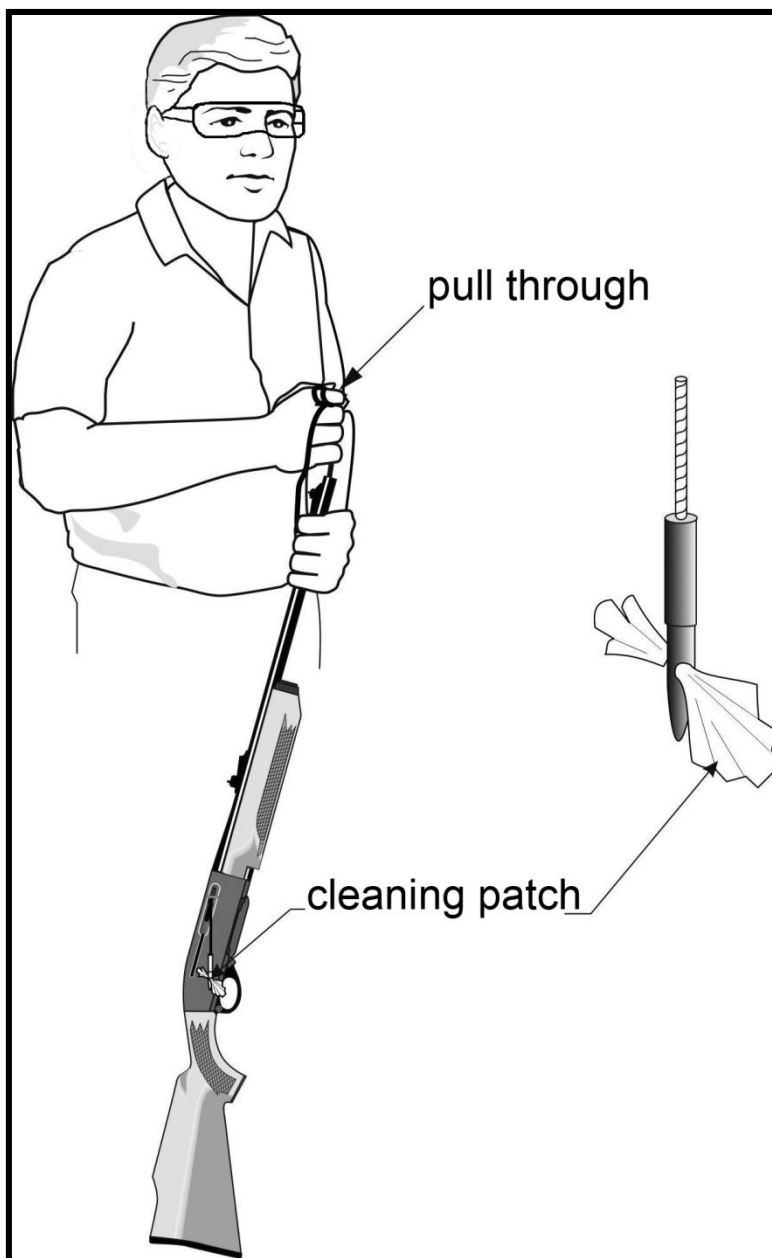


Figure 79. Cleaning a Rifle

9.2.3. Ammunition storage

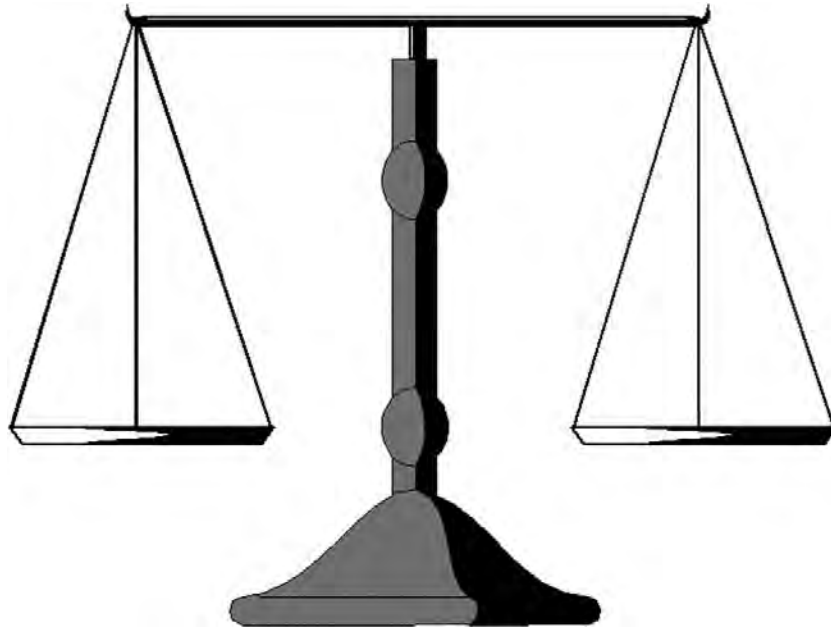
- a. Ammunition should also be kept clean and dry. Oil, sand or dirt on the cartridge or shell can damage the firearm. It could also cause jamming of the action.
- b. Avoid exposing your ammunition to heat and vibration. Powder can decay and become unpredictable if exposed to excessive heat and long-term vibration.



Primers are adversely affected by exposure to penetrating oils. Do not clean your ammunition with an oily rag. Before using any firearm, remove oil or grease from inside the barrel. Increased pressure caused by dirt or oil may cause the barrel to burst. This comes from the pressure generated in a dirty barrel when a bullet is fired through it. After storage, and before you use the firearm again, run a clean patch through the bore. Remove all grease and oil. Always ensure that your firearm is in good working order. Ensure that you have followed the Vital Four ACTS in order to PROVE it safe before attempting to clean and throughout the entire cleaning procedure. Refer to Module 6: Operating Firearms Actions on Unloading Procedures.

9.3. Review questions

1. Describe the mandatory procedure before servicing a firearm.
2. Where do we find directions on disassembly and lubrication for a specific firearm?
3. What is the risk caused by excess oil and grease inside the barrel?
4. What effect does penetrating oil have on ammunition primers?



MODULE 10:
SOCIAL RESPONSIBILITIES OF THE
FIREARM OWNER/USER

MODULE 10: SOCIAL RESPONSIBILITIES OF THE FIREARM OWNER/USER

10.1. Firearm-related incidents

- a. The main purpose of this course is to promote the safe use and handling of firearms. Increased safety awareness will help prevent both the unintentional and deliberate misuse of firearms.
- b. Most safety courses concentrate on the prevention of an unintentional discharge when handling firearms. A firearm generally causes more serious injuries than any other type of weapon.
- c. Suicides and homicides are often acts of sudden impulse. Many of them might not have happened if the firearms and ammunition were stored safely. For this reason, this course stresses the safe handling and use of non-restricted firearms and ammunition and their secure storage.

10.2. Intentional misuse of firearms

10.2.0. Overview

- a. The intentional misuse of firearms, resulting in suicide and homicide, has fallen since the eighties. Misuse of firearms, resulting in unintentional discharge, has also fallen.
- b. The misuse of firearms can lead to tragic results. The same applies to the misuse of automobiles, power tools and even kitchen knives.

10.2.1. Signs of risk

- a. You can sometimes anticipate violent situations before they happen. Remember, these events can happen in our own homes, those of friends or neighbours.
- b. When these situations seem to be developing, it is good practice to remove all firearms. This is true even when firearms are properly stored. Consider storing the firearms at an alternate location, and if necessary, notify the police of the situation.
- c. Consider notifying your CFO through the public safety line at 1-800-731-4000.

- d. You would not hesitate to prevent a friend or relative from drinking and driving. Do not hesitate to prevent the misuse of firearms.
- e. Your CFO will determine the continued eligibility of individuals to keep firearms.



In an emergency, for public or your own safety, immediately contact your local police service. In case of concern for public or your own safety, contact 1-800-731-4000.

10.3. Firearms reported lost, missing or stolen

Owners of firearms are required under the *Criminal Code* to report the loss or theft of their firearms.

Report the loss or theft of a firearm:

- to your local police service; and
- the CFP at 1-800-731-4000.

10.4. Secure storage

- a. Secure storage is the best way to limit theft and deliberate misuse of firearms. It should not be easy for unauthorized individuals to gain access to firearms and ammunition.
- b. Do not leave the key or combination to the firearm storage area or container lying around. Do not give them out to others. Also, do not let it become widely known that you have firearms.
- c. Locking up firearms and ammunition is important and is required by the *Firearms Act* and its Regulations. If you require more information, please refer to it.
- d. Make access to firearms and ammunition difficult. If firearms and ammunition are difficult to get, there may be a delay in acting on the impulse to do harm. This delay may be enough to make the impulse decrease or go away.

- e. Secure storage of firearms and ammunition may act as a deterrent to easy theft by criminals. **Remember: you are legally and morally responsible for your firearms 24 hours a day.** By law, you must store them safely and securely when you are not physically in control of them. This may cause some inconvenience, but it may also save a person from death or serious injury.

Please refer to **MODULE 11: SAFE STORAGE
DISPLAY, TRANSPORTATION AND HANDLING
OF NON-RESTRICTED FIREARMS.**



Unsafe storage of firearms is a criminal offence. Unsafely stored firearms may be misused. You and you alone will be held accountable (i.e., criminal negligence causing death, bodily harm).

10.5. Firearm hazards and precautions

This table summarizes some firearm hazards and appropriate precautions to take.

Table 8. Firearm hazards and precautions

Hazards	Precautions
Access by unqualified or unauthorized users	<ul style="list-style-type: none"> • Disable action before storage or transport (or use trigger or cable lock) • Store firearms in a safely locked cabinet or container, out of view • Store ammunition separately and out of view • Supervise unqualified users
Unintentional discharge	<ul style="list-style-type: none"> • Control muzzle direction at all times • Unload firearm when not in immediate use • Open action when handling • Keep finger off trigger and out of the trigger guard except when firing • Safety ON • No horseplay • A malfunctioning firearm may result in unintentional discharge • Ensure your firearm is well maintained and regularly serviced
Wrong ammunition	<ul style="list-style-type: none"> • Carry only correct ammunition • Check ammunition against firearm data stamp • Use proper ammunition for target and conditions • If reloading, follow correct procedures • Improperly loaded ammunition can cause a firearm incident • Ensure you know how to load correctly
Ricochets	<ul style="list-style-type: none"> • Be extra cautious when shooting at, or towards flat or hard surfaces • Check area near, or behind target before firing • Be extra cautious when shooting at, or towards water
Wrong target	<ul style="list-style-type: none"> • Identify target before firing and be sure, before you shoot • Know what is behind the target • Make sure the backstop is adequate



Follow the Vital Four ACTS—PROVE it safe.

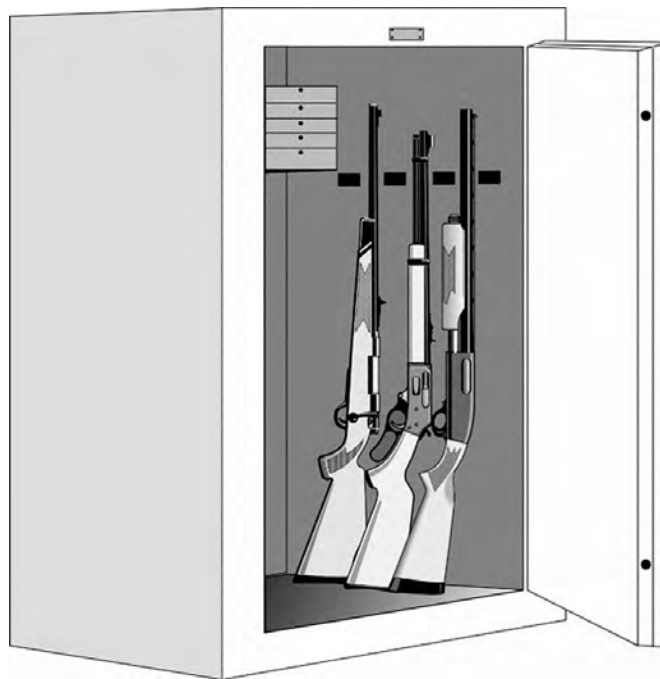
10.6. Social responsibilities and ethics

- a. As a firearm user, you have certain legal obligations to the community at large. In some cases, however, sticking to the letter of the law is not enough. The spirit of the law must also be followed. The welfare and well-being of your fellow citizens must come first.
- b. Below are some moral and social rules. They must be part of the code of ethics for anyone possessing firearms.
 - Store all firearms and ammunition properly. Keep your firearms and ammunition properly secured and out of sight.
 - Explain firearm safety to all family members. Everyone in a home where firearms are kept should know the safety rules. Firearms are no different than dangerous tools or poisons in the home. Proper use and handling of firearms and ammunition must be taught to the entire family. The key or combination number to secure locking devices should be kept away from, and out of the reach of, children and unauthorized adults.
 - Remove firearms from situations of potential violence. You may become aware of a situation where violence or tragedy could occur. In such cases, it is wise to go beyond the safe storage of firearms. Completely remove firearms that may be present. If this is not possible, at least notify the police of the situation.
 - Act sensibly and carefully while around firearms. Always pay close attention to what you and others around you are doing. Make sure that everyone is acting safely and responsibly.
 - Never consume drugs or alcoholic beverages when around firearms. Do not go shooting with anyone who has. Alcohol and drugs can affect your mental or physical reactions. Both prescription and non-prescription drugs can affect your alertness, senses and balance. Some types of allergy medicines are a good example. Always stay fully alert when around firearms.
 - Always get permission before shooting on someone else's property. Make sure that you are welcome and permitted before you shoot anywhere. Do this whether the land belongs to the crown, to a local club or to a private citizen. Make sure that you can shoot there safely. For example, someone else may be shooting there at the same time. Check with local authorities.
 - Have your eyesight checked regularly. Shooting requires good vision for target identification and accuracy. Be sure of your target and beyond.
 - Maintain your firearm in good working order. If required, have a qualified gunsmith service your firearm.

- Avoid firing near buildings or roads. Respect the rights of others to safe travel and undisturbed use of their property. Only shoot near buildings with authorized permission, and only if it is legal and safe.
- Know and respect firearms regulations and local by-laws.
- Wear safety equipment. Encourage others to do the same. Safety equipment may include, but should not be limited to, sight and hearing protection, gloves, caps and proper clothing.

10.7. Review questions

1. Is there a time when a gun owner does not have a moral or a legal responsibility for his firearm?
2. List five hazards that could potentially cause firearm injuries and fatalities.
3. List three ethical responsibilities of a firearm's owner.
4. What is the most positive influence in the prevention of firearm incidents?



MODULE 11:
SAFE STORAGE, DISPLAY,
TRANSPORTATION AND HANDLING OF
NON-RESTRICTED FIREARMS

MODULE 11: SAFE STORAGE, DISPLAY, TRANSPORTATION AND HANDLING OF NON-RESTRICTED FIREARMS

11.1. Classes of firearms

11.1.0. Overview

The table below provides a brief description of non-restricted firearms. For legal references, however, please refer to the *Firearms Act* and its Regulations, and Part III of the *Criminal Code* for a description of restricted and prohibited classes. Call 1-800-731-4000 for further information.

Table 18. Non-restricted Firearms

Non-restricted Firearms
<p>Generally, firearms commonly used for hunting or sporting purposes such as target shooting are included in this class. The following are examples of non-restricted firearms:</p> <ul style="list-style-type: none"> • rifles; and • shotguns.



It must be noted that some rifles and shotguns are considered restricted or prohibited. Persons wishing to acquire such firearms should contact a firearms officer for further information.

11.2. Ammunition

11.2.0. Overview

For a complete description of ammunition, prohibited ammunition and prohibited devices, consult Part III of the *Criminal Code* of Canada. Call 1-800-731-4000 for additional information.

11.2.1. Ammunition

Is a cartridge containing a projectile designed to be discharged from a firearm. This includes caseless cartridges and shot shells.

11.2.2. Prohibited ammunition

Individuals cannot acquire prohibited ammunition that is designed, manufactured or altered to ignite on impact.

11.2.3. Prohibited devices

Individuals cannot acquire prohibited devices; i.e., high-capacity magazine (except for rim-fire cartridges), silencer.



Refer to the appropriate sections of the *Firearms Act* and its Regulations for detailed requirements relating to the storage, display, transportation and handling of non-restricted firearms.

- a. Remember, you are responsible for your firearms 24 hours a day. Anyone who owns or uses a firearm must meet safe storage, display, transportation and handling requirements. These requirements are set out in the *Storage, Display, Transportation and Handling of Firearms by individuals Regulations*. All of these are described in this module.
- b. Firearm owners and users should always assume that anyone untrained in the safe handling and use of firearms does not know how to handle firearms safely. Serious incidents could occur from unauthorized access, especially where children are concerned. To prevent this, always store, display, transport and handle firearms and ammunition in accordance with the regulations.
- c. Remember, the law requires that all firearms must be unloaded except when in use.

11.3. Storage

- a. A non-restricted firearm may be stored only under the following conditions:
1. It is unloaded by the **ACTS and PROVE it safe**, and either:
 - rendered inoperable by using a secure locking device; or
 - by removing the bolt or bolt-carrier; or
 - stored in a securely locked opaque container, receptacle, or room that cannot be easily broken open or into (Figures 80-82).
 2. It is not within easy access to ammunition, unless the ammunition is stored, together with or separately from the firearm, in a securely locked container or receptacle that cannot be easily broken open or into.



Keep in mind that storing ammunition in an unvented container may create an explosive hazard during a fire.

- b. In areas where it is legal to discharge a firearm, a non-restricted firearm used for predator control may be stored temporarily unlocked, and out in the open, as long as it is unloaded, and not readily accessible to ammunition.
- c. In a remote area where hunting might reasonably occur, a non-restricted firearm may be stored unlocked, out in the open and accessible to ammunition as long as the firearm is unloaded.



Figure 80. Safe

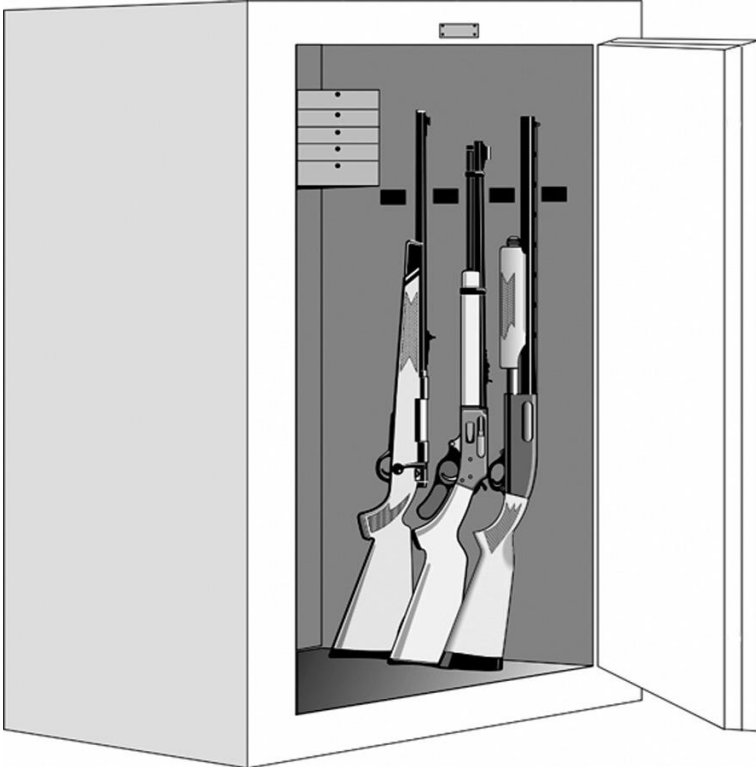


Figure 81. Secure Cabinet/vault



Figure 82. Storage Case

11.4. Display

A non-restricted firearm may be displayed only under the following conditions:

1. It is unloaded, and:
 - rendered inoperable by using a secure locking device (Figure 83); or
 - stored in a securely locked container, receptacle or room that cannot be easily broken open or into (Figures 80-82).
2. It is not displayed with and not within easy access to ammunition that can be discharged from it (Figure 84).

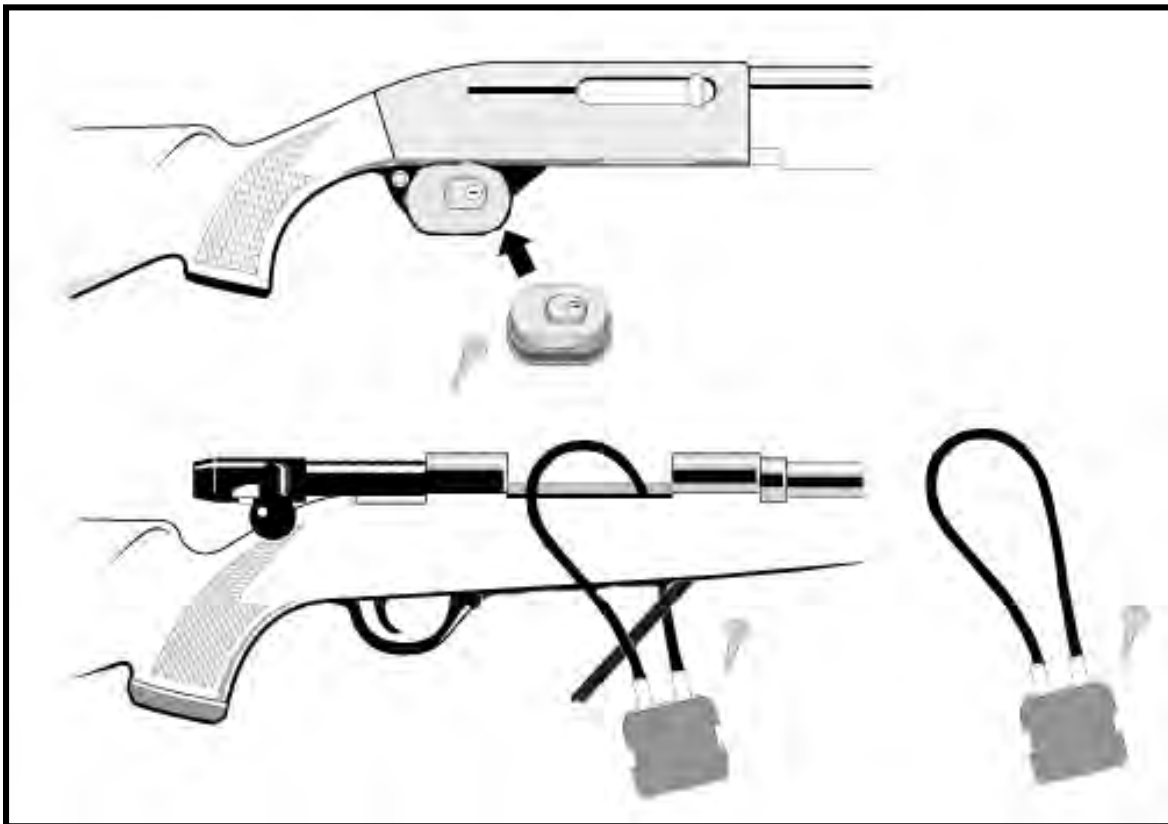


Figure 83. Security Cable and Trigger Locks

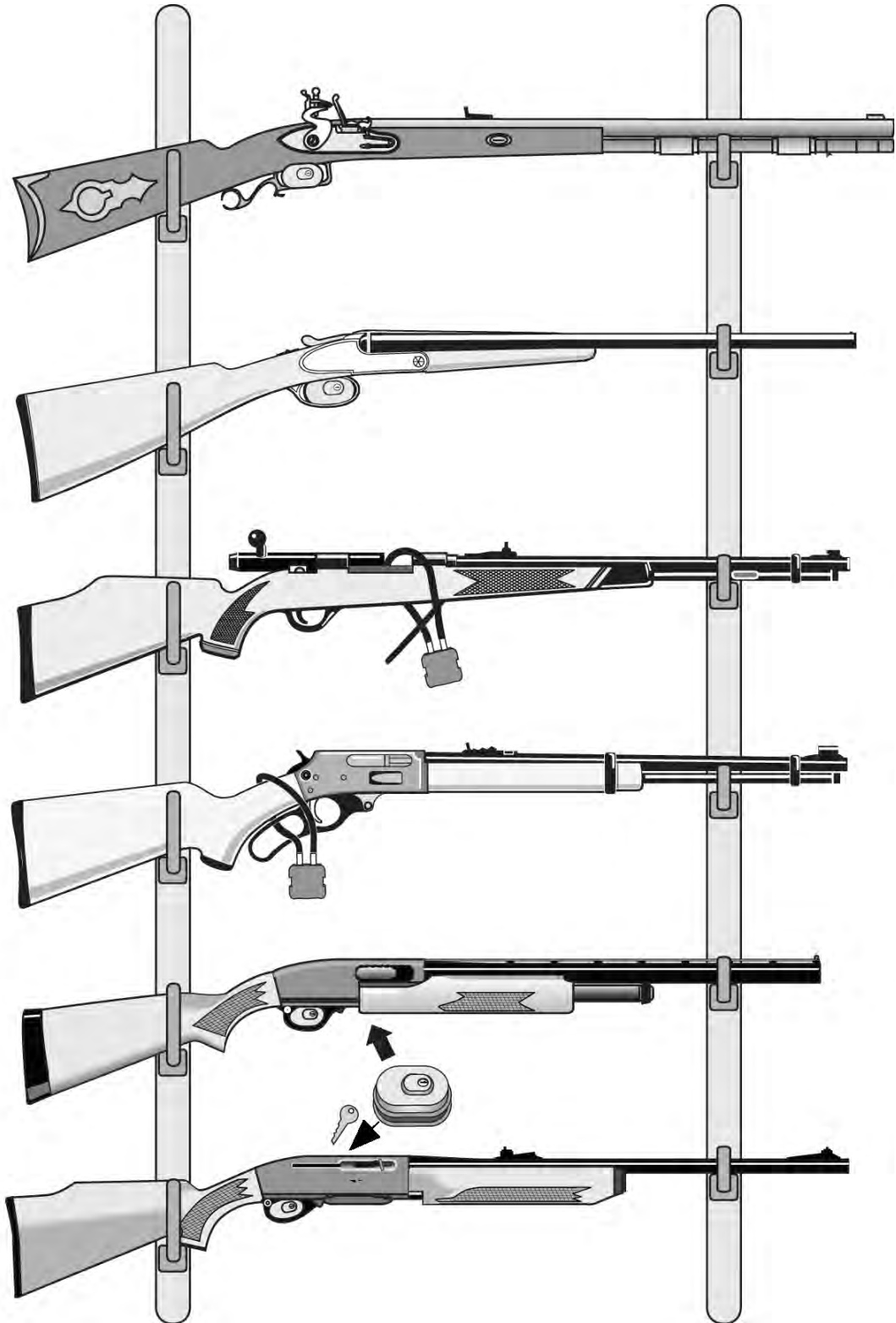


Figure 84. Display

11.5. Transportation

- a. A non-restricted firearm must be transported unloaded.
- b. However, loaded muzzleloading firearms may be transported between hunting sites if the percussion cap or flint is removed—subject to provincial/territorial regulations.
- c. You may leave a non-restricted firearm in an unattended vehicle if it is unloaded and placed in a locked trunk or a similar compartment of the vehicle.
- d. If the unattended vehicle does not have a trunk or a similar compartment, lock the vehicle or the part of the vehicle that contains the non-restricted firearm and leave the non-restricted firearm inside, unloaded and out of sight.
- e. In a remote area when hunting might reasonably occur, you may leave a non-restricted firearm in an unattended vehicle that has no trunk or compartment that can be locked (i.e., canoe, snowmobile), if it is out of sight. The non-restricted firearm must be unloaded and rendered inoperable by a secure locking device unless you require it for predator control.
- f. If you live in a rural area and need reasonable access to your non-restricted firearm for predator control, you may be exempted from some of the storage and transportation requirements. Check with a local firearms officer, a wildlife or conservation officer to confirm that provincial or municipal laws allow storage on a temporary basis.



If you want to transport firearms on an aircraft, you should first contact the air carrier. The air carrier will provide information on its regulations and requirements.



Every person commits an offence who, without lawful excuse, points a firearm at another person, whether the firearm is loaded or unloaded, and is:

1. guilty of an indictable offence and liable to imprisonment for a term not exceeding five years; or
2. guilty of an offence punishable on summary conviction (a fine of \$5,000 and/or six months imprisonment).

Reference: Subsections 87(1) and (2) of Part III of the *Criminal Code*

They may also lose their firearm, lose their licence, receive a fine, receive jail time and/or be prohibited from possessing a firearm for a period of time.

Not all firearms laws are included in this Handbook. If you have any doubts about the Regulations, or if you need more information, contact the following:

- the RCMP website at www.rcmp-grc.gc.ca/cfp; or
- the CFP at 1-800-731-4000.

11.6. Handling

- a. Before obtaining a firearm, think about how you will carry it home and where you will keep it. Remember, when you leave the seller or dealer's shop, you will be carrying your firearm in a public place. It is recommended that all firearms be carried in a case or opaque container to avoid display in public (Figure 85). Consult your local authorities for details.
- b. There are locations where having or discharging a firearm violates federal or provincial/territorial Acts and Regulations, or municipal bylaws. It may also be an offence to load or handle firearms in these places. You may load a firearm or handle a loaded firearm only in a place where it is lawful to discharge it.



Only load a firearm when you intend to use it and only in an area where it can be safely and legally discharged. Always be sure of your target and beyond.

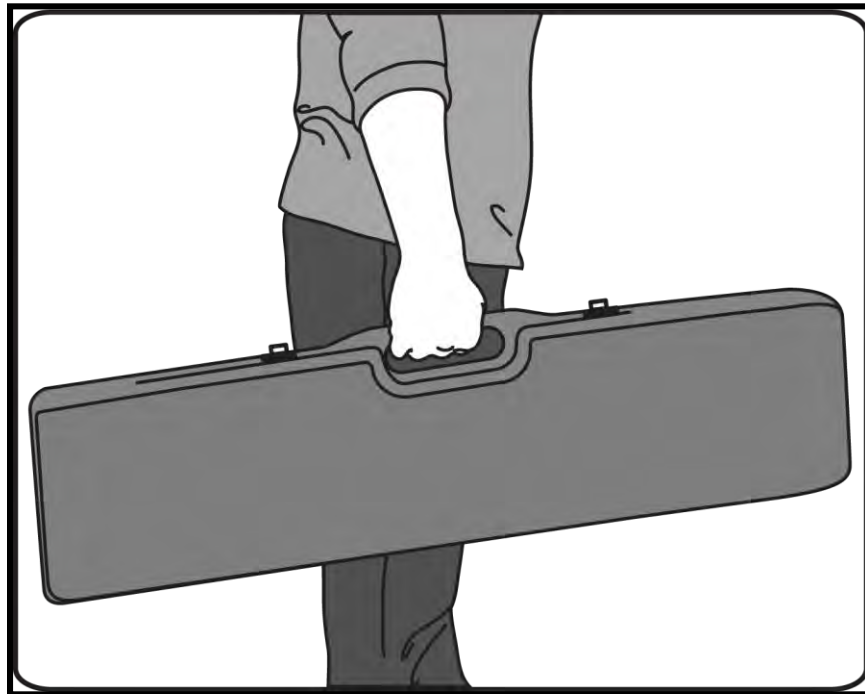


Figure 85. Lockable Carrying/Storage Case



Every person commits an offence who, without lawful excuse, points a firearm at another person, whether the firearm is loaded or unloaded, and is:

1. guilty of an indictable offence and liable to imprisonment for a term not exceeding five years; or
2. guilty of an offence punishable on summary conviction (a fine of \$5,000 and/or six months imprisonment).

Reference: Subsections 87(1) and (2) of Part III of the *Criminal Code*

They may also lose their firearm, lose their licence, receive a fine, receive jail time and/or be prohibited from possessing a firearm for a period of time.

11.7. Review questions

1. List three rules you must follow in order to legally display a firearm.
2. Name two devices used for permanent firearm storage and two devices used for temporary storage.
3. Name one type of prohibited ammunition and two types of prohibited firearm accessories.
4. List three rules you must follow in order to legally transport non-restricted firearms.
5. What is the penalty for a person who transgresses the laws of safe storage, safe transport, and/or safe handling of firearms?