**COMMON TRAINING**

**GREEN STAR**

**INSTRUCTIONAL GUIDE**

## SECTION 1

## EO M106.01 – IDENTIFY THE PARTS AND CHARACTERISTICS OF THE DAISY 853C AIR RIFLE

Total Time: 30 min

## PREPARATION

### PRE-LESSON INSTRUCTIONS

Resources needed for the delivery of this lesson are listed in the lesson specification located in A-CR-CCP-701/PG-001, *Green Star Qualification Standard and Plan*, Chapter 4. Specific uses for said resources are identified throughout the instructional guide within the TP for which they are required.

Prior to instructing this lesson the instructor shall:

- review the lesson content, and become familiar with the material;
- carry out a safety precaution check on all rifles to be used during this lesson; and
- state to cadets that the rifles have been inspected and are safe to handle.

### PRE-LESSON ASSIGNMENT

Nil.

### APPROACH

An interactive lecture was chosen for this lesson to orient the cadets to the parts and characteristics of the Daisy 853C Air rifle and generate interest.

## INTRODUCTION

### REVIEW

Nil.

### OBJECTIVES

By the end of this lesson the cadet shall be expected to identify the parts, and list the characteristics of the cadet air rifle.

### IMPORTANCE

Cadets must have a basic knowledge of the cadet air rifle in order to understand how the rifle works and to safely follow directions given on the range.



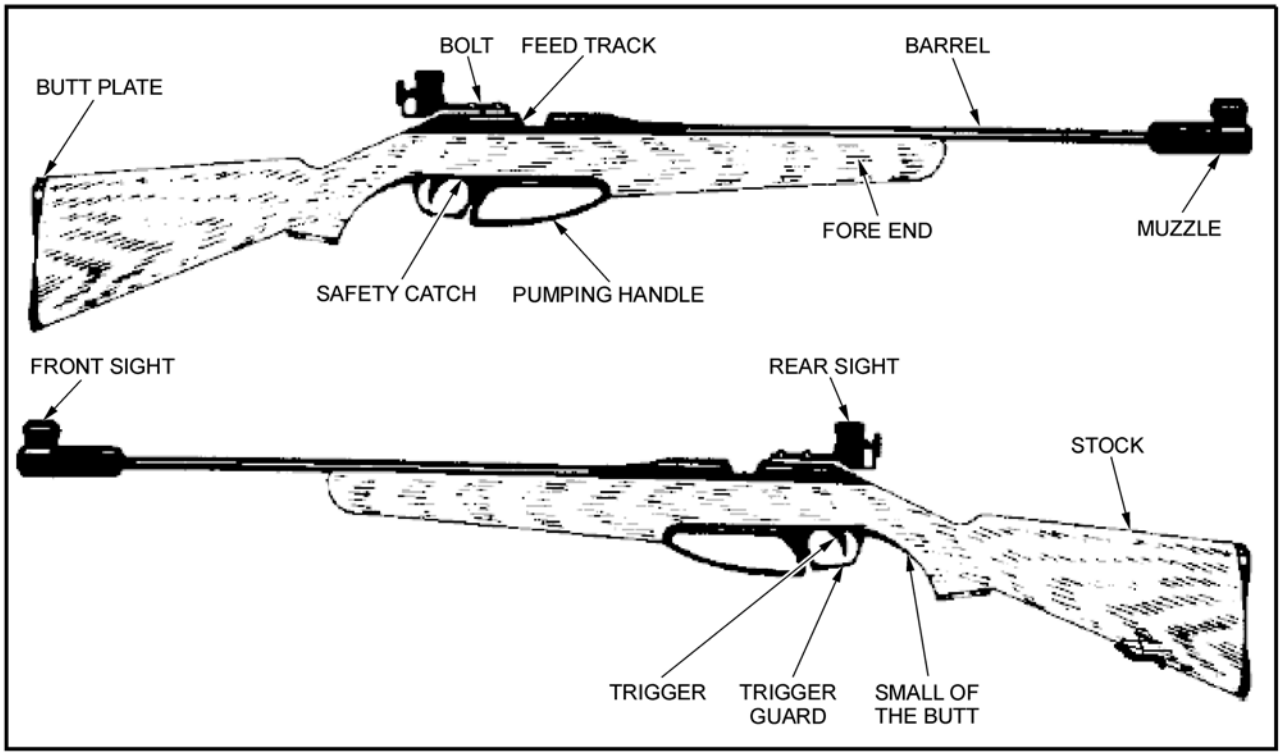
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**Teaching point 1** **Identify the parts of the Daisy 853C air rifle.**

Time: 13 min Method: Interactive Lecture

**PARTS**

- Depending on the number of rifles available, distribute them with an optimum ratio of one rifle for every two cadets.
- When possible, have a second instructor in the room to assist.
- **For safety purposes, maintain strict class control at all times.**




*A-CR-CCP-177/PT-001*

Figure 1 Parts of the Cadet Air Rifle

**Butt Plate (End of the Butt).** It is the part of the rifle directly in contact with the marksman's shoulder. When fitted properly, the butt plate aids in achieving a snug fit, and a consistent placement of the rifle into the shoulder. The addition of butt spacers allows for this adjustment in length.

**Spacers.** Plastic inserts that can be added or removed from the butt plate to vary its length. To add or take away butt spacers, use a Phillips screwdriver to loosen the butt plate and slide in/out the amount of spacers desired.

**Small of the Butt (Pistol Grip).** Curved area directly behind the trigger guard where the hand controlling the trigger grips the rifle.

**Stock.** Complete wooden portion of the rifle (from the butt plate end forward).

**Fore End (of the Stock).** Wooden portion of the stock from the trigger guard forward, in which the barrel and the rifle mechanism are encased.



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**Sling.** It is a web sling made of nylon. Links the rifle to the marksman's arm to support most of the weight of the rifle. One end attaches to the sling bracket and the other to the upper arm.

**Sling Bracket (Hand Stop).** Adjustable metal clasp attached to the fore stock used to affix the sling to the rifle. It also acts as a hand stop, used to rest the left hand to prevent it from moving.

**Trigger.** Movable device that releases a spring and releases the rifle mechanism. This rifle has a single stage trigger that cannot be adjusted for weight.

**Trigger Guard.** Metal band that surrounds and protects the trigger.

**Safety Catch.** This is a mechanism that, once engaged, prevents the rifle from firing by locking the trigger in place. It is a cross bolt type device located on the trigger guard. The black side indicates that the rifle is unable to fire; the red side indicates the rifle is ready to fire. It should be ON (no red) at all times, unless firing.

**Bolt.** Metal lever used for opening or closing the rifle mechanism. It must be in the closed position in order to fire. For maximum safety when the rifle is uncased and not firing, the bolt should be kept open.

**Pump Handle.** Metal lever used to compress the air required to fire the pellet. Whenever the rifle is in a "safe rifle status", the pump lever should be left partially open.

**Front Sight.** Global front sight that uses aperture inserts.

**Rear Sight.** Micrometer sight adjustable for windage and elevation. It is easily attached to a metal rail located above the action. This rail allows for adjustment of the sight forward or backward, in order to maintain proper eye relief. The sight is attached using a small flat-blade screwdriver.

**Muzzle.** Front end of the barrel equipped with attachable barrel weight.

**Barrel With Barrel Weight.** Steel tube through which the pellet travels, extending from the muzzle to the chamber. The barrel weight ensures that the rifle's weight is evenly distributed and that the rifle's balance is maintained.

**Bore.** Interior of the barrel has spiral grooves cut into it. The lands are the ridges of metal between the grooves. Together, the grooves and lands are called rifling.

**Feed Track.** Delicate area where the pellet is inserted manually onto a single pellet adapter, or with a five-shot clip.

**Single Shot Adapter.** Plastic clip that aids in placing a pellet in the chamber.

**Five-shot Clip.** Plastic clip that holds a maximum of five pellets and used to place the pellets in the chamber.

**Chamber.** Location where the pellet is held before firing.

## CONFIRMATION OF TEACHING POINT 1

The instructor shall ensure that the cadet can identify the parts of the cadet air rifle by physically pointing to the parts, and having the cadets properly name the part.



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**Teaching point 2** **Identify the characteristics of the Daisy 853C air rifle.**

Time: 12 min Method: Interactive Lecture

**CHARACTERISTICS**



Identify the main characteristics of the cadet air rifle. Focus on these points during the confirmation section of this teaching point.

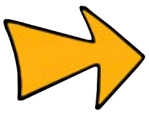
The characteristics of the Daisy 853C air rifle are:

- **Action.** Single pump pneumatic, straight pull-bolt.
- **Total Length.** 97.8 cm.
- **Total Weight.** 2.5 kg.
- **Calibre.** 0.177 calibre (4.5 mm).
- **Front Sight.** Global type with interchangeable aperture inserts.
- **Rear Sight.** Fully adjustable peep rear sight with micrometer click adjustment.
- **Muzzle Velocity.** 150.8 metres per second.
- **Loading.** Single or auto indexing five-pellet clip.
- **Stock.** Full-length, sporter-styled hardwood with adjustable length.
- **Safety.** Manual cross-bolt trigger block with red indicator.




These characteristics are “Nice to Know” and should be taught only if time permits.

- **Barrel.** Lothar Walther rifled high-grade steel barrel with weight: crowned 12 lands and grooves, right hand twist. Precision bore sized for match pellets. Approximate length 53.1 cm.
- **Maximum Range.** 235.4 metres.
- **Sling.** Adjustable competition web.
- **Trigger Weight.** Minimum 3.5 lb.
- **Chamber.** Open loading and made of steel.
- **Pumping Force.** 20 lbf.



With a muzzle velocity of 150.8 metres per second, the cadet air rifle is not a “firearm” under the current federal firearms legislation, but it is treated as one under the definition used by the Military Police.



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## CONFIRMATION OF TEACHING POINT 2

### QUESTIONS

Q1. The cadet air rifle has what type of action?

Q2. What is the calibre of the cadet air rifle?

Q3. The cadet air rifle uses what type of safety?

### ANTICIPATED ANSWERS

A1. Single pump pneumatic, straight pull-bolt.

A2. 0.177 calibre (4.5 mm).

A3. Manual cross-bolt trigger block with red indicator.

## END OF LESSON CONFIRMATION

This EO may be confirmed with the handout found at Attachment A. Allow cadets a few minutes to complete the handout, then have cadets switch sheets for correcting.




Correctly labelled diagram is located at page M106.01A-2.

## CONCLUSION

### HOMEWORK/READING/PRACTICE

Cadets are to take home the corrected handout to study the parts of the cadet air rifle.

### METHOD OF EVALUATION

Nil.

### CLOSING STATEMENT

Knowing the parts and characteristics of the cadet air rifle is important in understanding how the rifle works. This allows the cadet to be able to follow directions given on the range, and properly perform a handling test whenever an air rifle is to be used.

### INSTRUCTOR NOTES/REMARKS

Emphasis must be placed on the safety aspect of this lesson.

## REFERENCES

A0-027 A-CR-CCP-177/PT-001 D Cdts 3. (2001). *Canadian Cadet Movement: Cadet Marksmanship Programme Reference Manual*. Ottawa, ON: Department of National Defence.



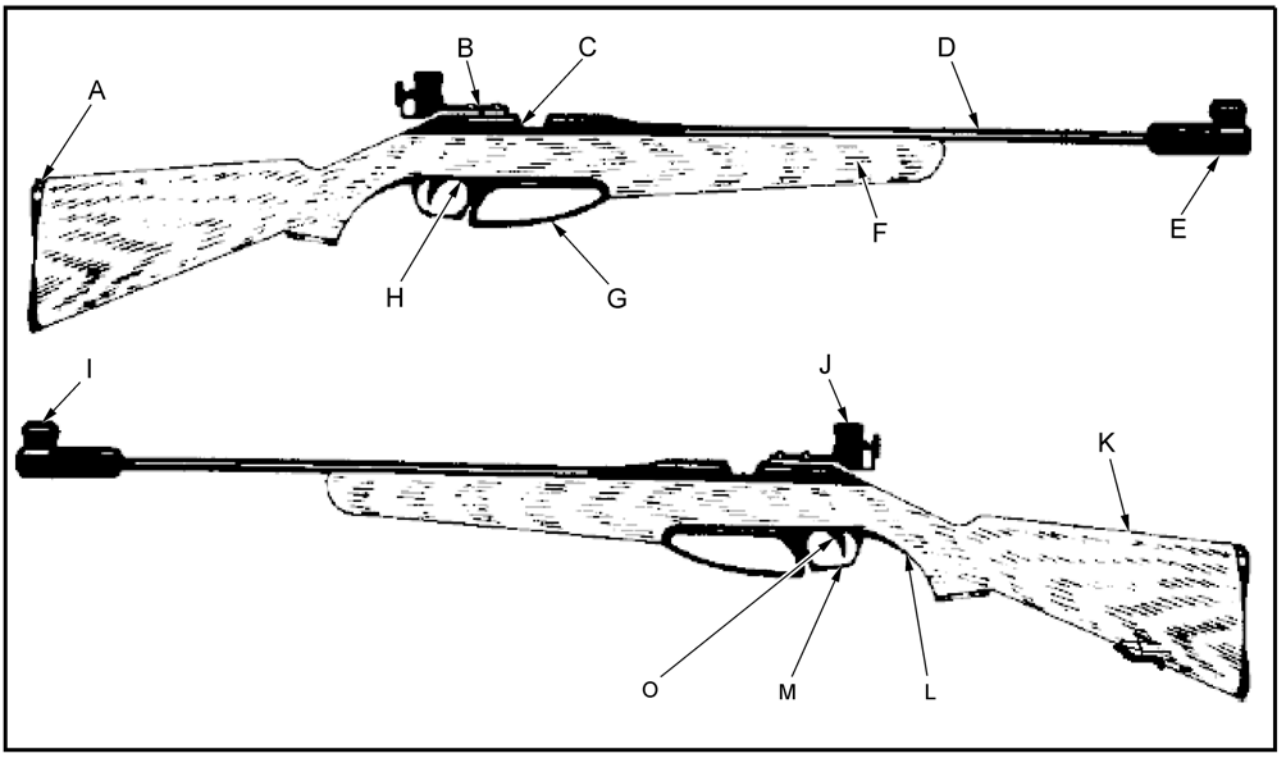
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## PARTS AND CHARACTERISTICS OF THE CADET AIR RIFLE



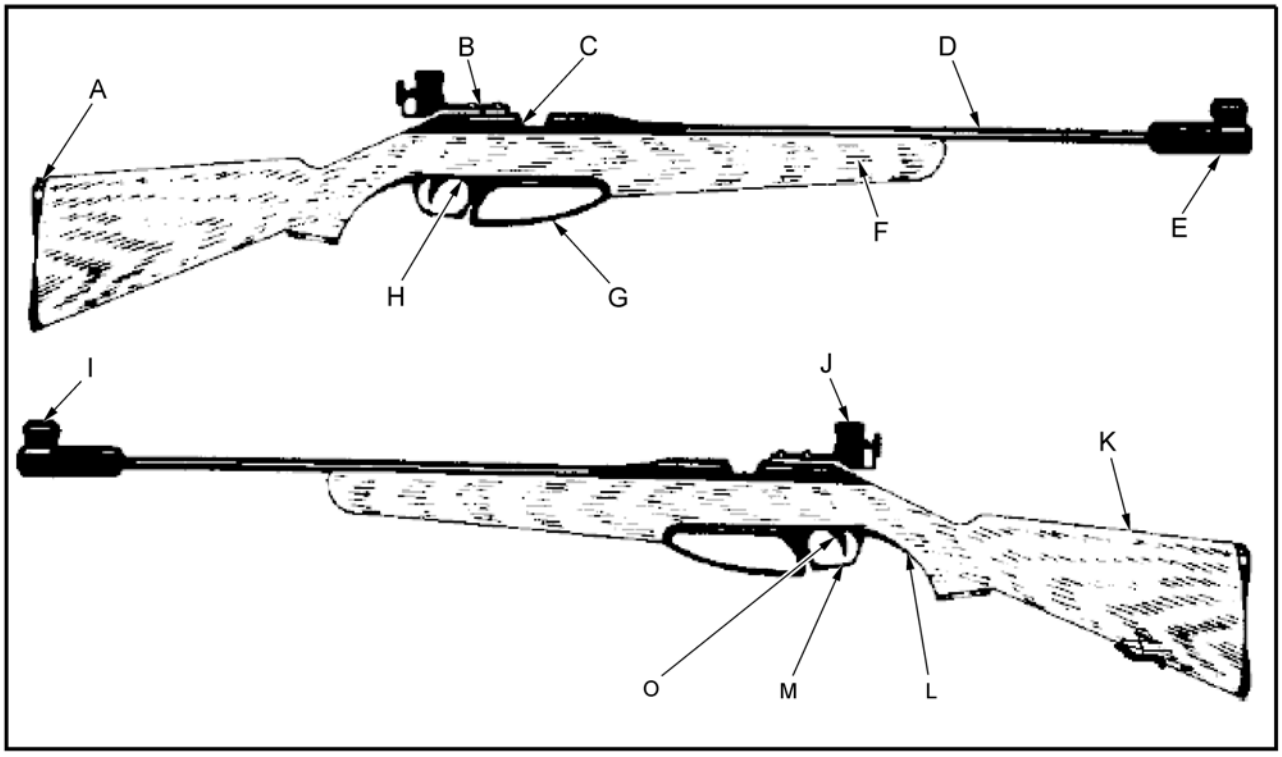

Put the letter next to the matching name of the part of the cadet air rifle.

| | | | | | |
|---|---|---|---|---|---|
| 1. | Feed Track | _____ | 8. | Safety Catch | _____ |
| 2. | Small of the Butt | _____ | 9. | Muzzle | _____ |
| 3. | Barrel | _____ | 10. | Pump Lever | _____ |
| 4. | Fore End | _____ | 11. | Front Sight | _____ |
| 5. | Rear Sight | _____ | 12. | Trigger Guard | _____ |
| 6. | Trigger | _____ | 13. | Butt Plate | _____ |
| 7. | Bolt | _____ | 14. | Stock | _____ |



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**ANSWER KEY**




Put the letter next to the matching name of the part of the cadet air rifle.

| | | | | | |
|---|---|---|---|---|---|
| 1. | Feed Track | C | 8. | Safety Catch | H |
| 2. | Small of the Butt | L | 9. | Muzzle | E |
| 3. | Barrel | D | 10. | Pump Lever | G |
| 4. | Fore End | F | 11. | Front Sight | I |
| 5. | Rear Sight | J | 12. | Trigger Guard | M |
| 6. | Trigger | O | 13. | Butt Plate | A |
| 7. | Bolt | B | 14. | Stock | K |



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