



# Assembly & Instruction Manual

**ITEM 3174**

VENDOR: A | SERIES: 1



## 10 x 70 BINOCULAR Precision Polished Ruby Lens

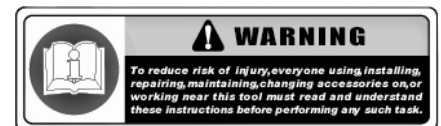
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Your new 10 x 70 Precision Polished Ruby Lens Binocular has been engineered and manufactured to Cummins Industrial Tools high standards for dependability, ease of operation, and operator safety. Pay close attention to the Rules for Safe Operation, Warnings, and Cautions. If you use your machine properly and only for what it is intended, you will enjoy years of safe, reliable service.

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## INTRODUCTION

- THIS PRODUCT has many features for making the use of this product more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

 **WARNING:** Do not attempt to use this product until you thoroughly read and completely understand the operator's manual. Pay close attention to the safety rules, including Dangers, Warnings, and Cautions. If you use your product properly and only as intended, you will enjoy years of safe, reliable service.

 **Look for this symbol to point out important safety precautions. It means attention!!! Your safety is involved.**



 **WARNING:** The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always wear eye protection which is marked to comply with ANSI Z87.1.

# GENERAL SAFETY RULES

**⚠ WARNING:** When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment. Read all instructions before using the tool.

- **Work area condition.** Cluttered areas invite injuries.
- **Additional work area conditions.** Do not use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted.
- **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools or extension cords.
- **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
- **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
- **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
- **Use eye protection.** Always wear ANSI approved impact safety glasses underneath a full face shield during use. Also wear heavy duty work gloves.
- **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
- **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. The handles must be kept clean, dry, and free from oil and grease at all times.
- **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before starting work.
- **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
- **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Any part that is damaged should be replaced.
- **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Cummins Industrial Tools.
- **Do not operate tools if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

**⚠ WARNING:** The warnings, cautions, and instructions discussed in this instruction manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which can not be built into this product, but must be supplied by the operator.

# FEATURES

Your Ruby Lens Binocular is equipped with the following features:

## ■ PERMA FOCUS / INSTAVISION

Depending on the model, your binocular may be designed and built with a revolutionary focus-free optical system. Perma Focus and Instavision binoculars offer fast and clear viewing from approximately 35-100 ft. (depending on power) to “infinity”, with no need to adjust a focus control. These binoculars do not have a diopter setting on either eyepiece.

## ■ WATERPROOF / FOGPROOF

Depending on the model, your binocular may be designed and built utilizing the latest waterproof and fogproof technology. Waterproof models are o-ring sealed for complete moisture protection. Fogproof protection is achieved from dry nitrogen purging that removes all internal moistures.

## ■ EYECUPS (Eyeglasses/Sunglass Wearers)

Your binocular is fitted with rubber roll-down, pop-up, or twist-up eyecups designed for your comfort and to exclude extraneous light. If you wear glasses, make sure the eyecups are in the down position. This will bring your eyes closer to the binocular lens thus providing improved field of view.

# PRODUCT SPECIFICATIONS


- Rubber coated aluminum frame
- 10 x 70 power with ruby lenses
- Foldable rubber eye caps
- Adjustable focus
- Field of vision: 330 ft. @ 1000 yards

# UNPACKING

## INSTRUCTIONS

When unpacking the tool:

- Carefully remove the tool and accessories from the box.
- Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.

 **WARNING:** If any part is missing do not operate the tool until the missing part is replaced. Failure to do so could result in possible serious personal injury.

# OPERATION

## EYE ADJUSTMENTS

### How-to Adjust for Distance Between Your Eyes

The distance between the eyes, called “interpupillary distance”, varies from person to person. TO achieve perfect alignment of lens to eyes, follow these simple steps:

1. Hold your binocular in the normal viewing position.
2. Grasp each barrel firmly. Move the barrels closer together or further apart until you see a single circular field. Always reset your binocular to this position before using.

### How-to Adjust for Individual Eye Strength

As individual eyesight varies from one person to another, most binoculars have a diopter setting feature which allows you to fine-tune the binocular to your vision. Follow the focusing instructions below for your type of binocular.

## FOCUSING

Cummins binoculars have one of two focusing systems: Center or “Insta-Focus®”.

- Center Focus has a central focusing wheel between the barrels.
- “Insta-Focus®” rapid focusing system has a focusing lever between the barrels;

### Center Focus & “Insta-Focus®”

1. Adjust interpupillary distance.
2. Set the Diopter Setting to zero and view a distant object.
3. Keep both eyes open at all times.
4. Using a lens cover or your hand, cover the objective (front) lens of the same side of the binocular that has the Diopter Setting. This is usually the right side. (The left side on Zoom models.)
5. Using the center focus wheel of “Insta-Focus®” lever, focus on a distant object with fine detail (e.g., brick wall, tree branches, etc.) until it appears as sharp as possible.
6. Uncover the objective lens on the diopter side, cover the other objective lens then view the same object.
7. Using the Diopter Setting adjustment ring, focus the same object being viewed. Caution should be used as over turning or forcing the diopter eyepiece can cause damage or cause the eyepiece to break away from the chassis.
8. Your binocular should be adjusted for your eyes. Focusing for any distance can now be done simply by turning the center focus wheel or pressing the “Insta-Focus®” lever. Make a note of the diopter setting for your eyes for future reference.

# OPERATION

## “Zoom” Feature – On Selected Models Only

1. Follow the steps for focusing as outlined under “Center Focus & Insta-Focus®”
2. When focusing a “zoom” (variable power) binocular, it is best to begin at high power. This will reduce or eliminate the need for focus readjustment when zooming between high and low powers. Set the “zoom” lever at the highest power indicated and focus on a distant object with the detail (e.g., brick wall, tree branches, etc.).
3. Adjust your binocular for individual strength using the Diopter Setting as outlined in the instructions for “Center Focus / Insta-Focus®”.
4. Your binocular is now adjusted properly for your eyes. You may now “zoom” to any power and the subject will stay in focus.

**NOTE:** TO focus on an object at a closer distance, focus on the object at high power first and then adjust the “zoom” lever to the desired lower power. With any “zoom” instrument, better quality images are possible at lower powers.

# MAINTENANCE

Your Ruby Lens Binocular will provide years of trouble-free service if it receives the normal care you would give to any fine optical instrument. Non-waterproof models should not be exposed to excessive moisture.

1. If your binocular has a roll-down, flexible eyecups, store it with the eyecups up. This prevents excessive stress and wear on the eyecups in the down position.
2. Avoid banging and dropping.
3. Store in a cool, dry place.

## CLEANING

1. Blow away any dust or debris on the lens (or use a soft lens brush).
2. To remove dirt or finger prints, clean with a soft cotton cloth rubbing in a circular motion. Use of a coarse cloth or unnecessary rubbing may scratch the lens surface and cause permanent damage. A “microfiber” cleaning cloth (available at most photo shops) is ideal for the routine cleaning of your optics.
3. For a more thorough cleaning, photographic lens tissue and photographic-type lens cleaning fluid or isopropyl alcohol may be used. Always apply the fluid to the cleaning cloth – never directly on the lens.