

## General Operation

- A. General borescope checks before and after each use.
1. Check the borescope for rips, tears and abrasions.
  2. Check for proper lighting. If dim or not lighting, replace the batteries.
  3. Check for smooth rotation of the eyepiece.
- B. Operation
1. Always exercise care when inserting and removing the shaft of the borescope into and out of the object you are inspecting.
  2. Try to predetermine the route and location of the area you are inspecting. With this you can prebend the 6mm shaft to the direction you require to facilitate viewing.
  3. Never bend the shaft length tighter than 3 in (7.8 cm) diameter.
  4. Never expose the housing to water or liquids.
  5. Never insert the shaft into hot locations greater than 158° F (70° C).
  6. Never use the borescope near moving parts such as gears, fan blades or moving belts.
- C. Cleaning and storage
1. Always wipe the tip, shaft and housing with a soft, clean cloth to remove any residue or moisture.
  2. Use a proper cleaning liquid and rinse the tip and shaft with water. Let dry.
  3. Always gently clean the tip lens and eyepiece with a lens cleaner such as isopropyl alcohol, using a cotton swab.
  4. The borescope should be completely dry before storing in the case.

If any problems occur with your borescope, do not attempt to open the housing.

## Inspection Tips

- Use the **white-light** OPTIMAX Jr™ for general inspection of internal engine components.
- Use the **blue-light** OPTIMAX Jr™ for surface inspection and detection leaks with fluorescence-enhancing glasses supplied and use Goodson fluorescent dyes for best inspection results.

**NOTE:** For assistance, including help with a unit under warranty, contact Tech Department at Goodson 1-800-533-8010. Give full details of the difficulty and include the model and serial number of the unit and the date of purchase. The serial number is located on the carrying case.

# GOODSON

**Tools and Supplies for Engine Builders**

156 Galewski Drive • P.O. Box 847 • Winona, MN 55987-0847

Toll-Free 1-800-533-8010 • Local 507-452-1830 • [www.goodson.com](http://www.goodson.com)

## BSK-4 4 mm Bore Scope Instructions

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# BSK-4

**Please read instructions before using.**



*Clip-on  
angled mirror  
lets you see  
inside hard to  
view areas*

### 4 mm, Dual- Light, Multi-Purpose Borescope Kit

The BSK-4 4 mm Borescope kit features an extremely narrow (4 mm diameter), multi-purpose borescope that allows you to easily view previously inaccessible engine, transmission and gear-train components. The kit comes complete with two OPTIMAX Jr™LED flashlights (one white light, one blue light), a flexible 38 - inch, water and abrasion-resistant shaft, a light concentrating coupler and a clip-on inspection mirror. Fluorescence-enhancing glasses, for use with the blue-light flashlight and fluorescent dyes (dyes sold separately), are also included. All components are packaged in a sturdy plastic carrying case.



#### WARNING

- Read all instructions and information before using.
- Keep out of reach of children.
- Do not point the tip of the borescope toward the sun or other bright light to avoid damage to eyes.
- Do not bend shaft tighter than 3 in. (7.6 cm) diameter.
- Never use this instrument in any manner not specified in these instructions.

#### Basic Specifications

Model	BSK-4
Viewing angle	40 degrees
Viewing distance	10 mm to infinity
Tip diameter	4 mm
Shaft length	36 in (91cm)
Min. bending radius	3 in (7.6 cm)
Shaft material	HDPE
Housing material	Nylon
Inspection mirror	P/N: S/124441

#### Light sources

GLO-8640	Blue light LED OPTIMAX Jr™ flashlight
GLO-8641	White light LED OPTIMAX Jr™ flashlight
Batteries Included 3AA for each flashlight	

### To Operate the Flashlights

Press the button in the end cap once to turn the lamp on. Press it again to turn the lamp off. The solid-slate LED bulb, either white or blue, offers long-lived operation (approximately 100,000 hours each). Batteries are included.

### To Replace Batteries

Twist the end cap *counterclockwise* to open. Insert 3 AA batteries positive end toward the lamp head and replace the end cap.

### Eyepiece Focusing

The eyepiece has been factory set to be in focus and should need very little adjustment in the field. Turn the eyepiece slightly to the left or right to be in focus. If you feel resistance, do not exert force but reverse the direction. Continue until the image is in focus.

### Attaching the Coupler and Mirror

Loosen the screw on the light-concentrating coupler, press the coupler onto the post of the borescope and tighten the screw to secure.

**IMPORTANT:** To position the inspection mirror properly, align and tilt the base against the flat portion of the borescope tip. Push it into place, making sure that the clip is fully seated in the recessed section of the tip.



#### CAUTION

**The inspection mirror is intended for external use only.** In some cases, the mirror can be dislodged and not easily retrieved. The user takes full responsibility in these instances. Accordingly, please use good judgment when using the mirror.