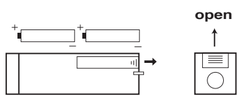
FIBER OPTIC VIEWING SCOPE KIT

OPERATION INSTRUCTIONS

BATTERY REPLACEMENT
Use two AA batteries to properly power your fiber scope
- Remove the battery housing cover near the viewing end of the scope body, sliding it to the direction of the arrow as show below.
- Insert batteries and put back the cover.

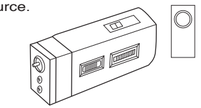


IMPORTANT INFORMATION:
ST and SC connector ferrule lengths vary slightly. If you have aligned your scope to accept the SC connector, DO NOT fully seat the ST version for inspection. If you have aligned your scope to accept the ST version, it may be necessary to re-align it to accept SC connectors.

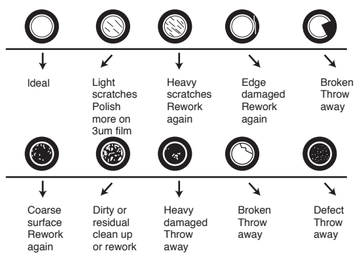
OPERATION
Using the 200X adjustable scope: The 200X adjustabl magnifier is configured with a field aligning aluminum head. (See Field Alignment Section)

- To view the ferrule end of an ST or SC fiber connector, slide the ferrule into the inspection port until it bottoms-out. On SC type connectors, it may be necessary to apply pressure to the back strain relief boot to ensure the ferrule end meets the minimum depth-of-field needed for proper viewing.

- Viewing the image can be accomplished by focusing with the thumb-wheel adjustment knob. You may first want to switch on the internal light source.



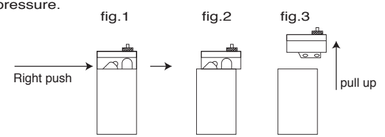
Inspection Examples:



RELACING THE BULB OR ADDING OTHER SCOPE HEAD ASSEMBLIES

- Hold scope base unit in one hand with your thumb resting on the bulb side of the clear plastic lens.(see drawing 1)
- Apply thumb pressure against the plastic lens to the right side until it pops loose (about 1/4 inch of lateral movement can be expected)see drawing2.
- Lift off the plastic lens by applying a two finger prying motion on the broad sides of the lenssee see drawing3.

- Unscrew old bulb and replace with a new incandescent 2.25V, 0.25 AMP or like part (available at your local hardware or electronics store). If changing the head assembly, simply snap on the new head and re-align the plate by loosening the two alignment screws and positioning the place with thumb pressure.

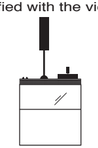


FIELD ALIGNMENT OF ALUMINUM HEAD
Tools needed to perform aligning adjustment:
- Small electronics screwdriver.

Adjustment procedure:
- Insert connector in inspection port.
- Loosen screws on top of the aluminum plate head piece.
- Align image and hold plate and clear lens together while tightening one of the two hold-down screws.
- Perform find adjustment by viewing image and placing thumb pressure on the side of the aluminum plate.

Note:
Be aware that image will move in the opposite direction that pressure is applied.
- Tighten the last screw when you are satisfied with the view.

Caution: Do not over-tighten screws.



CARE AND STORAGE
Store your fiber inspection scope in appropriate temperatures. Extreme temperatures can shorten the life of your instrument.

Dust and dirt can cause premature wear on your scope. Be sure to gently clean the scope with a lint free cloth after each use.

When not using your scope, be sure to store it in a protected case to avoid lens damage from sun, dust, dirt, or moisture.

Do not clean any portion of your scope with a harsh chemical or solvent. Use a dry (or) slightly dampened with alcohol, lint free cloth.

Caution: Always remove all epoxy from connector ferrules before inserting into scope.

REPAIRING AND RESTORATION OF A REJECTED FINISH

For any connector face exhibiting signs of dust, bacterial growth, epoxy, fluid, or contamination, use only an optic approved lint free cloth and 90% (or better) isopropyl alcohol.

- Place the lint free cloth on a cushioned consistent surface i.e. a polishing pad.
- Add a few drops of alcohol to one side of the cloth and buff the fiber end on the saturated cloth using moderate hand pressure for about 15 seconds.
- Move to a dry section of the lint free cloth and once again buff the fiber end using firm hand pressure.
- Inspect finish using the 200X scope with angle adapter and repeat steps 1 through 3 if necessary.

FOR SCRATCHED OR SLIGHTLY BLEMISHED SURFACES
- For distinct scratches or very slight core/cladding fractures use 1.0 to 1.5um DIAMOND lapping film.
- For light scratches, surface blemishes, undercut, or epoxy fold-over, first use standard acetate 1um lapping film followed by 0.5 micron DIAMOND lapping film.

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