

# User Guide

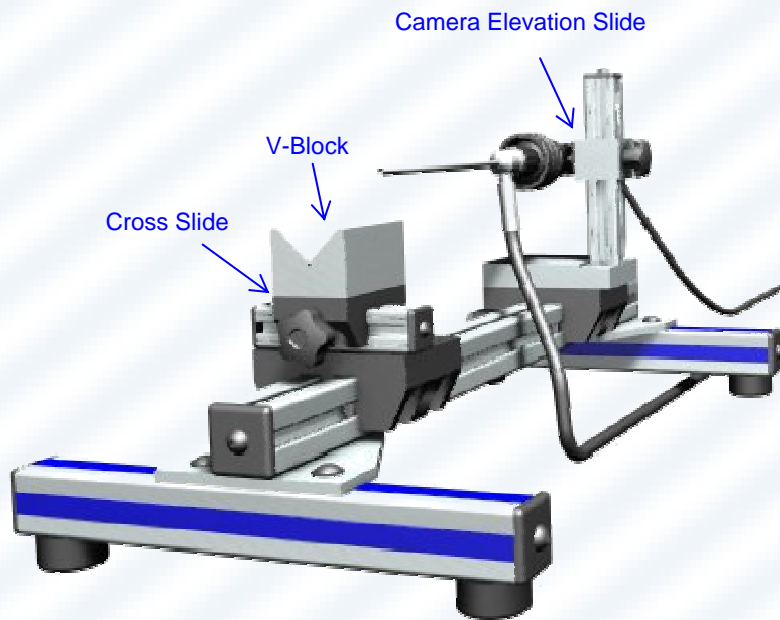
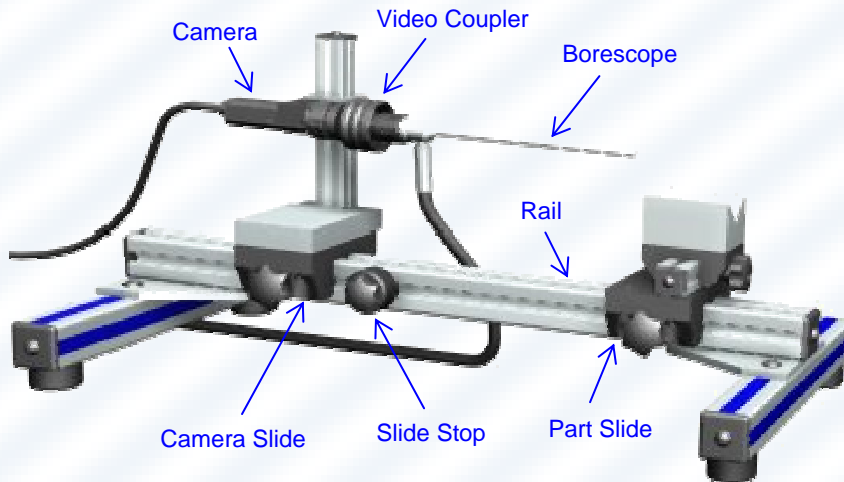


Gradient Lens Corporation

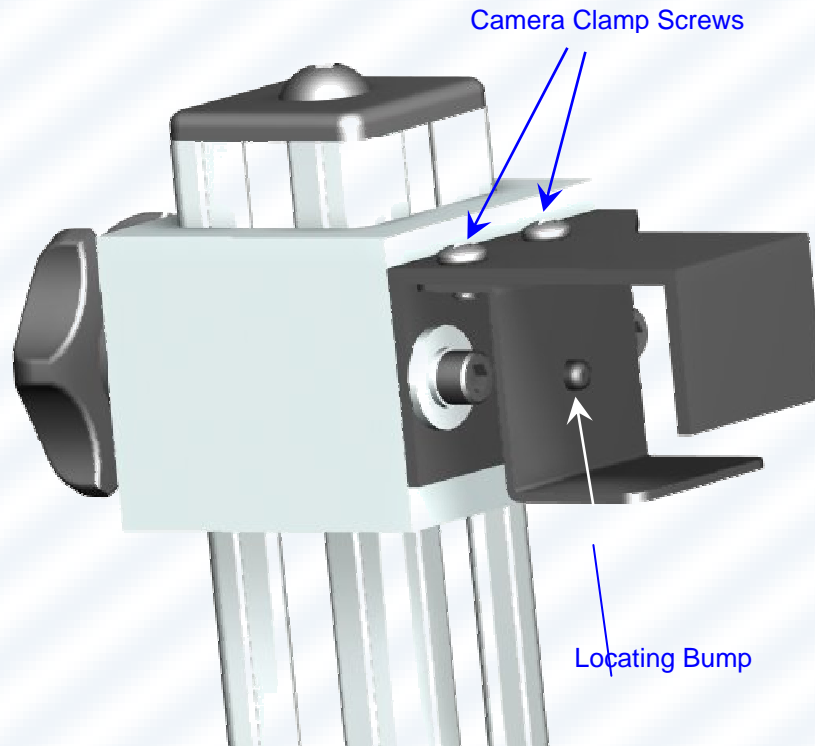
## HAWKEYE VIDEO SLIDE



## Hawkeye Video Slide - Major Components



## Hawkeye Video Slide - Camera Mounting

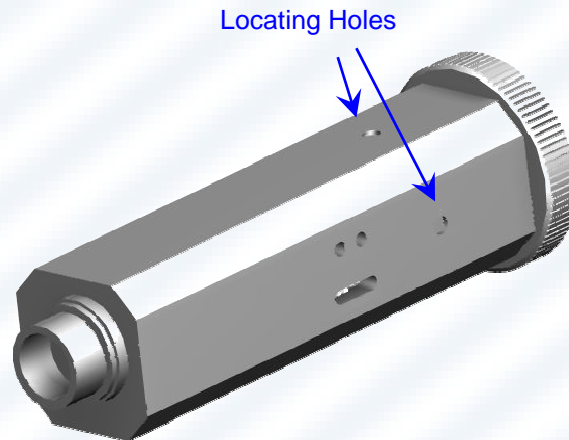


Loosen the Camera Clamp Screws 1 to 2 turns using a #2 Phillips screw driver. The screws are very short and will come out if turned too far. Be careful not to lose the screws.

Notice the Locating Bump on the lower half of the Camera Clamp. This bump is meant to engage one of the Locating Holes in the Camera.

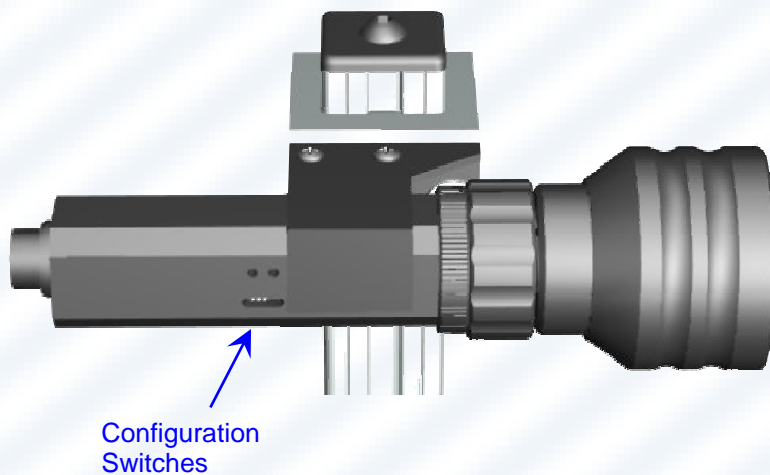
## Hawkeye Video Slide - Camera Mounting

There are four Locating Holes on the Camera, one on each side.



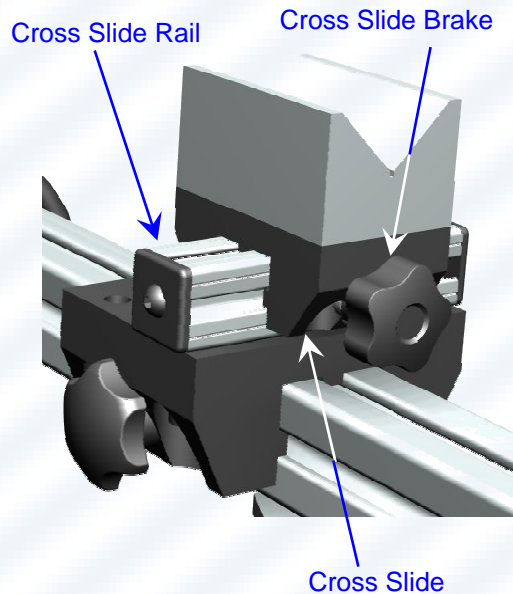
With the Camera Clamp Screws loosened, slide the Camera and Video Coupler into the Camera Clamp with the Camera Configuration Switches facing out as shown, so the image will be right side up.

Slide the camera around until the Locating Bump is engaged in the Locating Hole on the camera. Then tighten the screws until the camera is firmly held in the mount, with no shake.

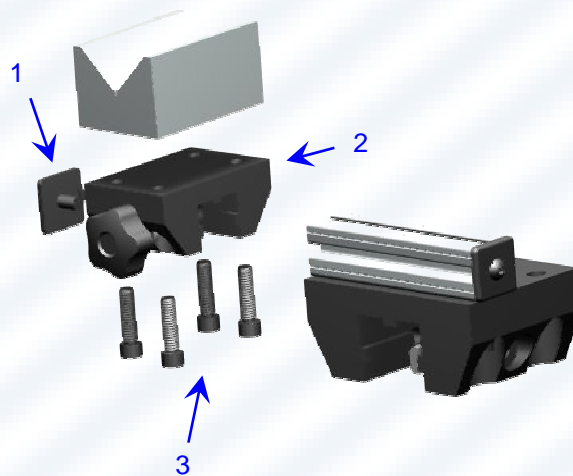


## Hawkeye Video Slide - V-Block and Cross Slide

Place the part to be inspected on the V-Block. The V-Block is attached to the Cross Slide. The Cross Slide and V-Block may be moved along the Cross Slide Rail to the desired position by loosening the Cross Slide Brake. Re-tighten the Cross Slide Brake after positioning the V-Block.

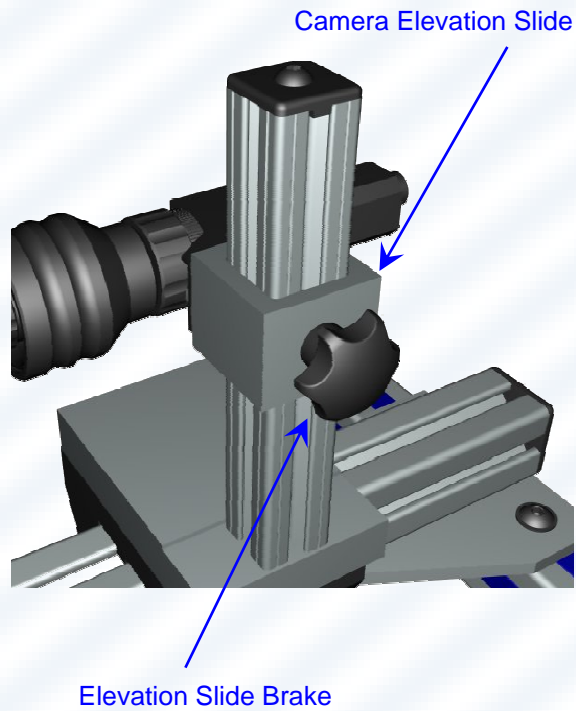


The V-Block may be modified or replaced as needed to conform to the user's parts. To remove, first remove one of the Cross Slide Rail End Caps (1). Then loosen the Cross Slide Brake and slide the Cross Slide assembly off the Cross Slide Rail (2). Now the four 1/4-20 screws holding the V-Block to the Cross Slide are accessible and may be removed (3). Assemble in reverse order. Be careful not to over-tighten the 1/4-20 screws, as the Cross Slide is a polymer material and can be damaged. Snug is good.



## Hawkeye Video Slide - Camera Elevation

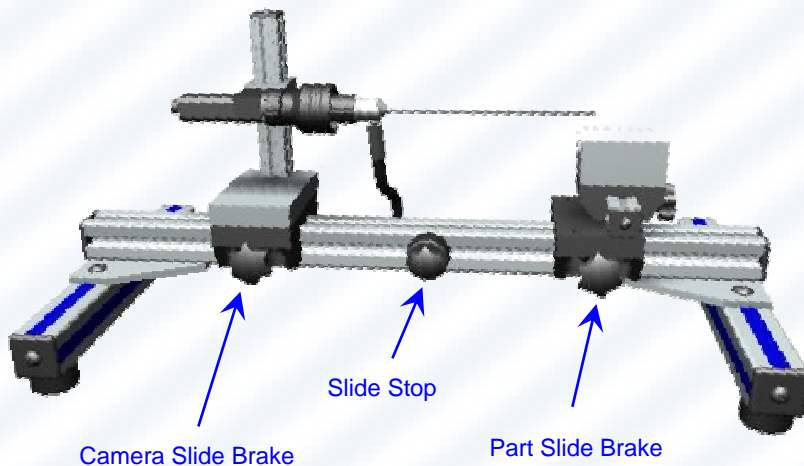
Camera height is adjusted by loosening the Elevation Slide Brake and raising or lowering the Camera Elevation Slide by hand. Tighten the brake to secure.



## Hawkeye Video Slide - Slide Stop

Once the V-Block and Camera Elevation Slide are positioned so the Borescope can access the area of interest on the part, the Slide Stop can be set to promote repeatability and prevent damage to the Borescope and part.

Determine whether it is more desirable to move the Camera Slide or the Part Slide during the examination of the part. For larger, heavier parts it may be easier to lock the Part Slide in place, by tightening its brake, and move the Camera Slide. For smaller, lighter parts it may be better to lock the Camera Slide with its brake and move the Part Slide.



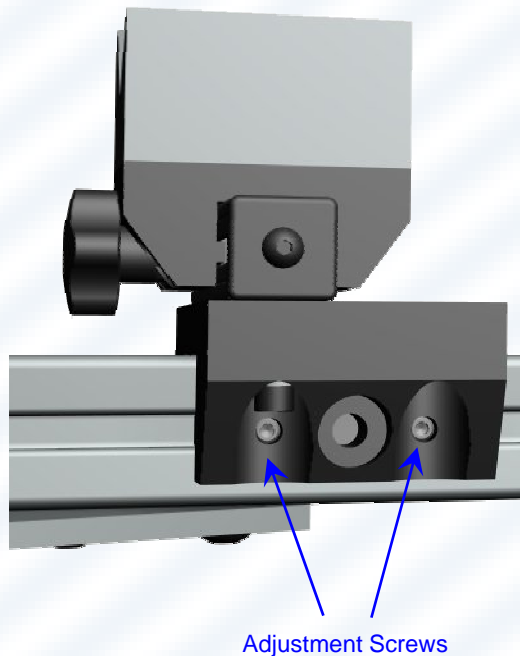
In either case, carefully position the slides so that the Borescope is at the maximum safe depth into the part. Tighten the brake on the slide chosen to be stationary. Then loosen the knob on the Slide Stop and move the stop until it is in contact with the slide chosen to be the moving slide. Tighten it down. Now as long as subsequent parts are mounted in the same position, the moving slide can be run until it contacts the stop without damaging the Borescope or the part.

## Hawkeye Video Slide - Adjustments

The Part Slide, Camera Slide and Camera Elevation Slide can each be adjusted to minimize shake and to set the desired amount of friction between the slides and their respective rails.

The adjustment screws on the Part Slide and Camera Slide are easily accessible on the side of the slides opposite their brake knobs, as shown at right.

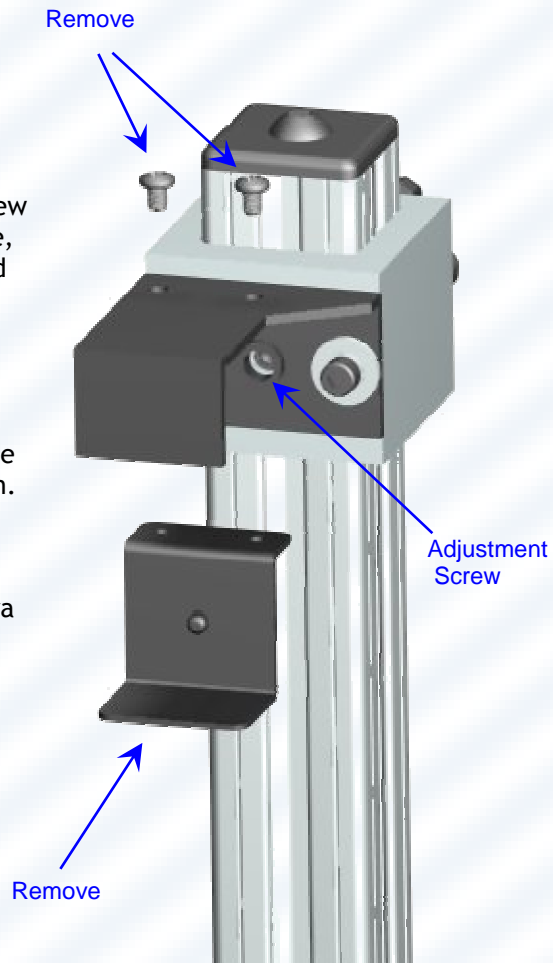
**Adjust these in very small increments as they are quite sensitive.** First, **loosen the slide brake.** Then, using a 1/8-inch hex key, turn both screws equally only about 5 or 10 degrees at a time. Turn the screws clockwise to increase friction and reduce shake. If the slide locks up, back them out a little.





## Hawkeye Video Slide - Adjustments

To access the adjustment screw on the Camera Elevation Slide, the Camera Clamp Screws and the lower jaw of the Camera Clamp must be removed as shown at right. Loosen the slide's brake and use a 3/32-inch hex key to make adjustments. Again, clockwise tightens and increases friction. Adjust in 5 or 10 degree increments until the desired resistance to motion is felt in the slide. Replace the Camera Clamp jaw and screws.







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