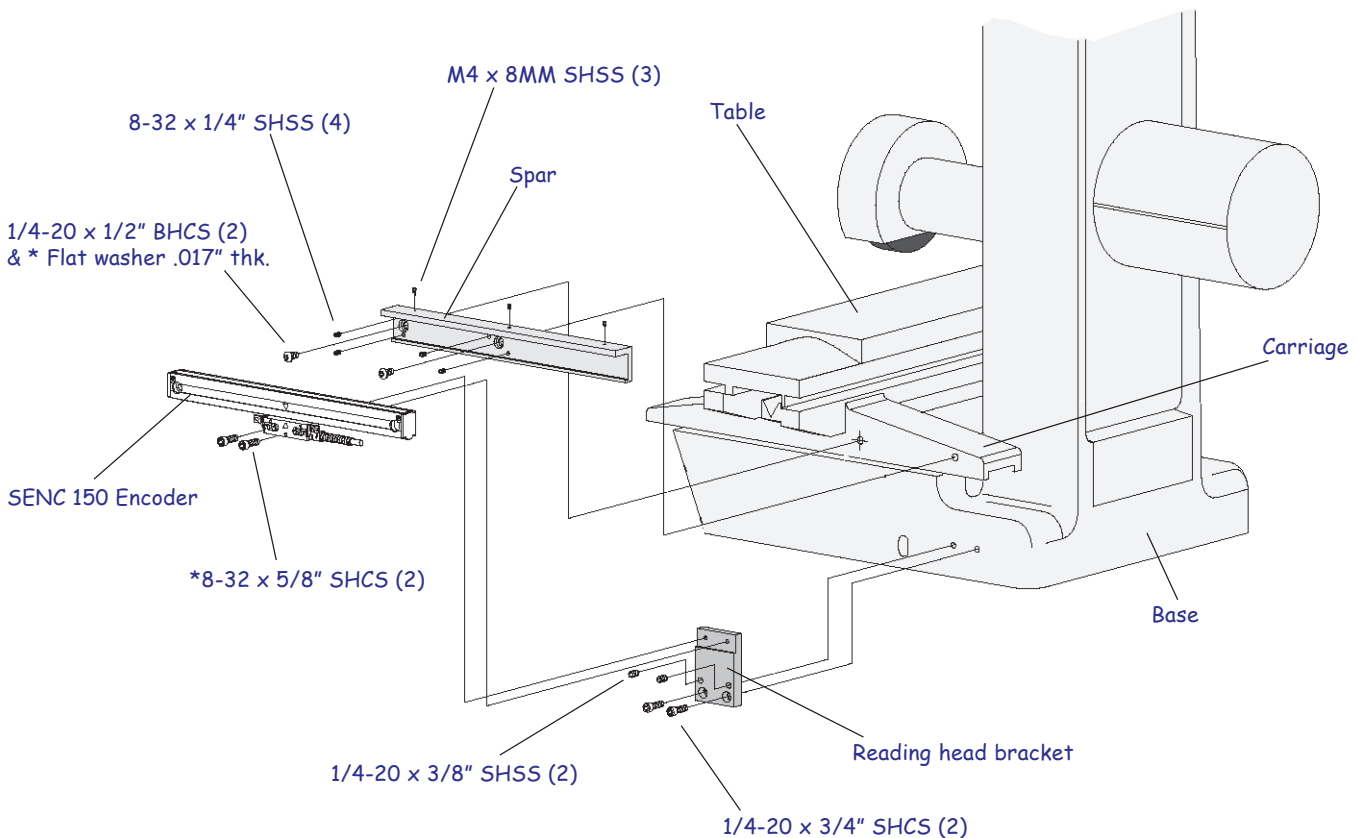


## Cross Feed Installation ...

\* Supplied with encoder hardware



## Mounting Information...

These are application instructions for mounting the Cross feed "X" axis SENC 150 encoder.

### Before proceeding:

- Please read the instructions completely.
- Insure that the correct length encoder is being used for the total travel.
- Keep the reading head centered during installation.
- Clean the mounting surfaces.
- Save the alignment brackets with the Encoder Reference Manual after installation is completed.

## First Steps ...

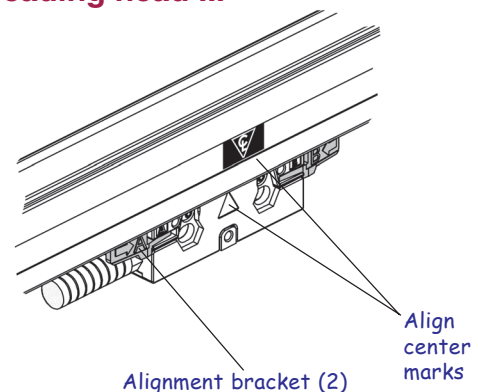
### Machine

- ✓ Move the carriage to its center of travel.
- ✓ Mark the axis so that it can be re-centered easily.

### Encoder

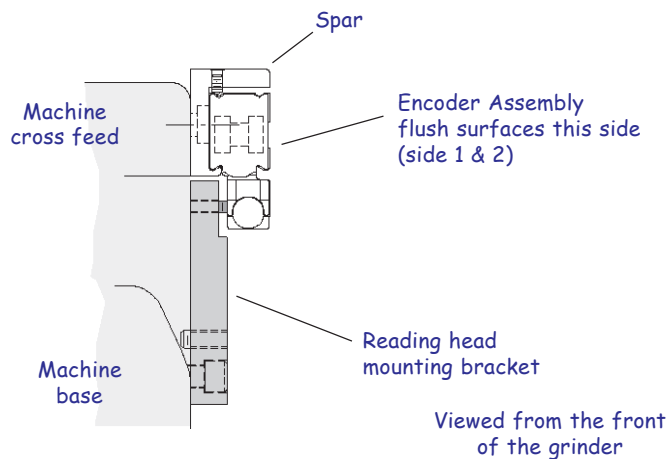
- ✓ Unpack encoder in a safe, convenient location.
- ✓ Do not remove the reading head alignment brackets until instructed.

## Center reading head ...



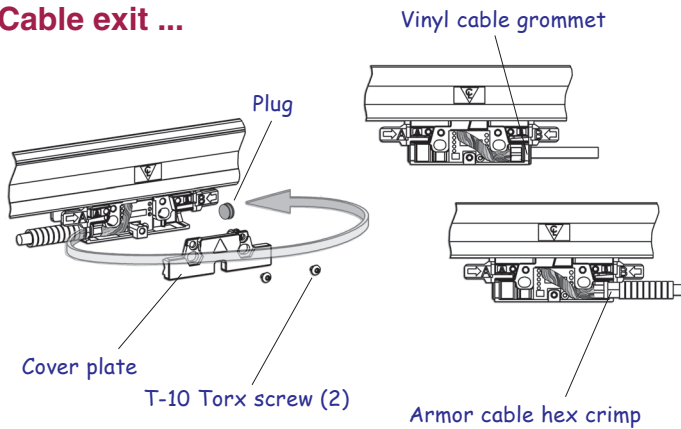
- Slide the reading head and brackets along the scale case until the center marks on the scale case and reading head are aligned.

## Encoder orientation ...



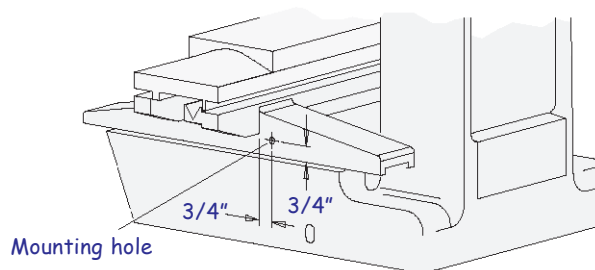
- These instructions will guide you through installing the encoder as shown in this view.

## Cable exit ...

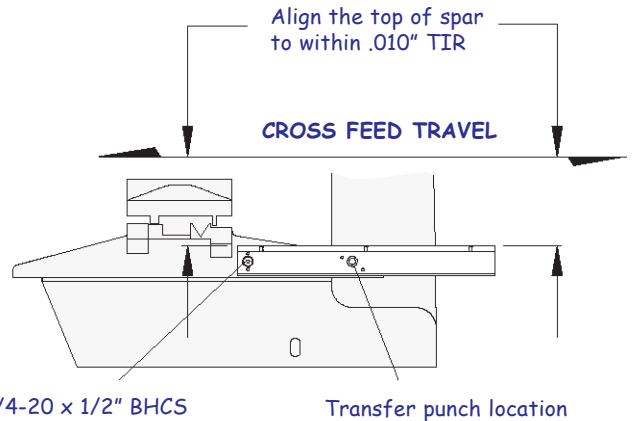


- Determine the cable exit direction before installing the encoder.
- To change the cable exit direction; remove the cover plate and rotate the cable 180°.

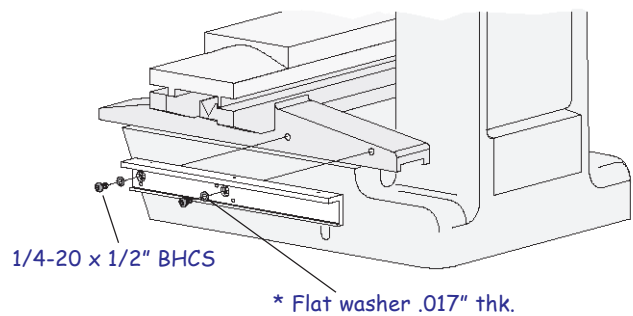
## Spar installation ...



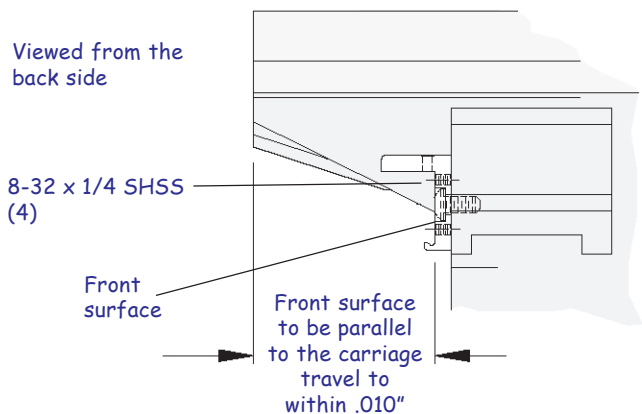
- Locate the spar mounting hole using the dimensions shown.
- Drill and tap for a 1/4-20 through.



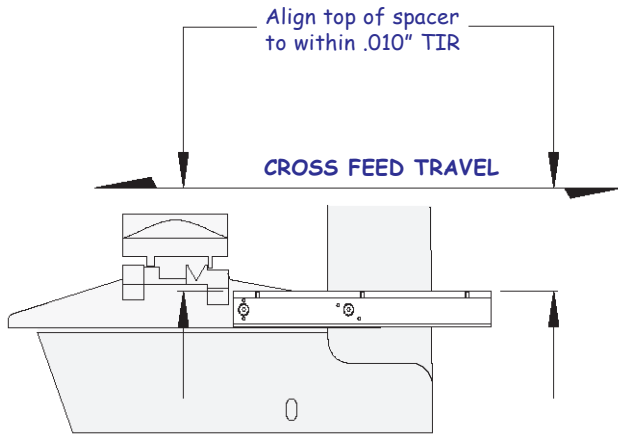
- Fasten the spar at one end, and align the top surface to the cross feed travel.
- Transfer punch the other end mounting hole.
- Drill and tap location for a 1/4-20 through.



- Attach the spar to the cross feed.

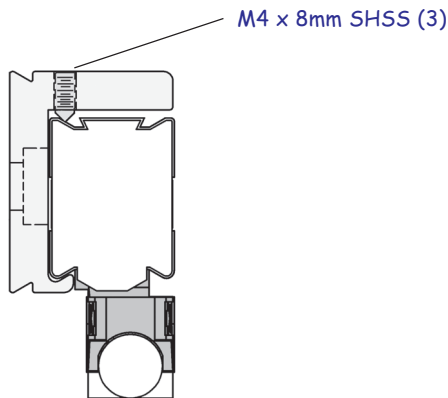


- Insert four 8-32 x 1/4" SHSS into the spar.
- Align the front surface of the spar, use the leveling set screws to assist with this alignment.
- Secure spar in place maintaining alignment, ensure all leveling screws are flush or below the spar front surface.



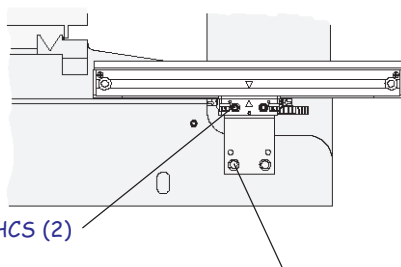
- Align the top of the spar to the cross feed travel, and secure in place.

## Encoder installation ...

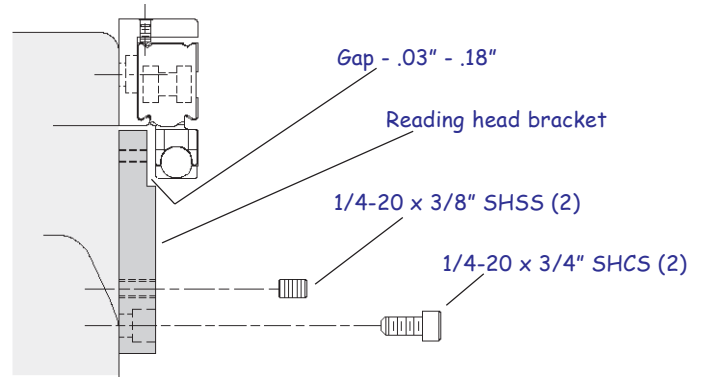


- Insert the encoder into the spar as shown.
- Center the encoder in the spar from end to end.
- Lock in place by tightening the M4 set screws.

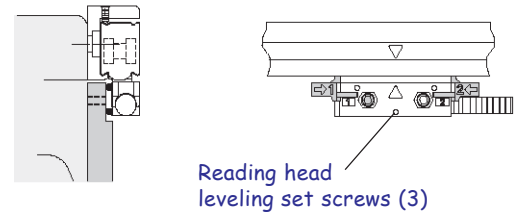
## Attaching the reading head ...



- With the carriage at the center of travel, attach the bracket to the reading head.
- Transfer punch the two mounting hole locations to the base.
- Remove the bracket, drill and tap the locations for 1/4-20 x 1/2" deep.

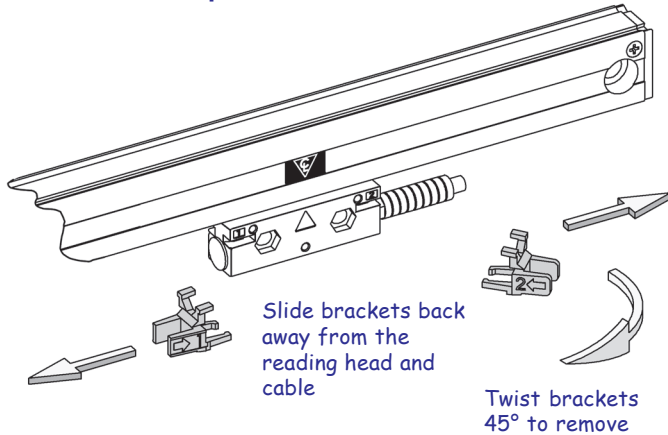


- Insert the two 1/4-20 set screws.
- Attach the bracket to the base.
- Adjust the set screws so that the bracket is parallel with the reading head, a gap of .03" - .18" will exist.
- Adjust the bracket so that the head mounting holes align with the bracket and secure in place.

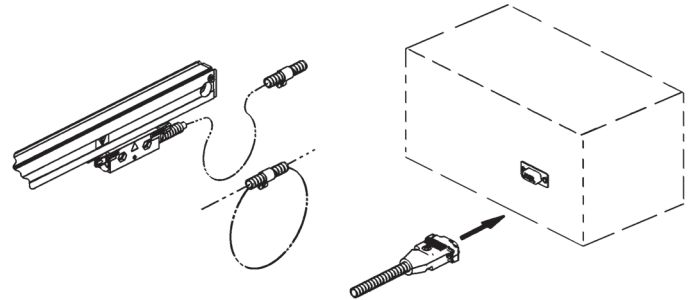


- Insert the \*8-32 x 5/8" SHCS, but do not tighten.
- There will be a gap of .03" - .18" between the bracket and the reading head.
- Insert and set each leveling screw by placing a .001" - .003" feeler gage between the set screw and the bracket.
- Adjust each set screw until a slight drag is felt on the feeler gage.
- Evenly tighten** the two 8-32 SHCS.

## Encoder button up ...



- Use allen wrench from set screw adjustment to slide alignment brackets away from the reading head.
- Remove alignment brackets and save.
- Move the axis through its full travel. Confirm that the assembly does not interfere with the machine movement.



- With the down feed axis installation complete (if used), route the cables providing sufficient slack loops for machine movement to the readout.
- Secure cables by fastening with clips or ties.
- Attach the linear encoder connectors to the readout.
- Complete the installation by following the steps in "Checking Your Installation" section in the encoder "Reference Manual".