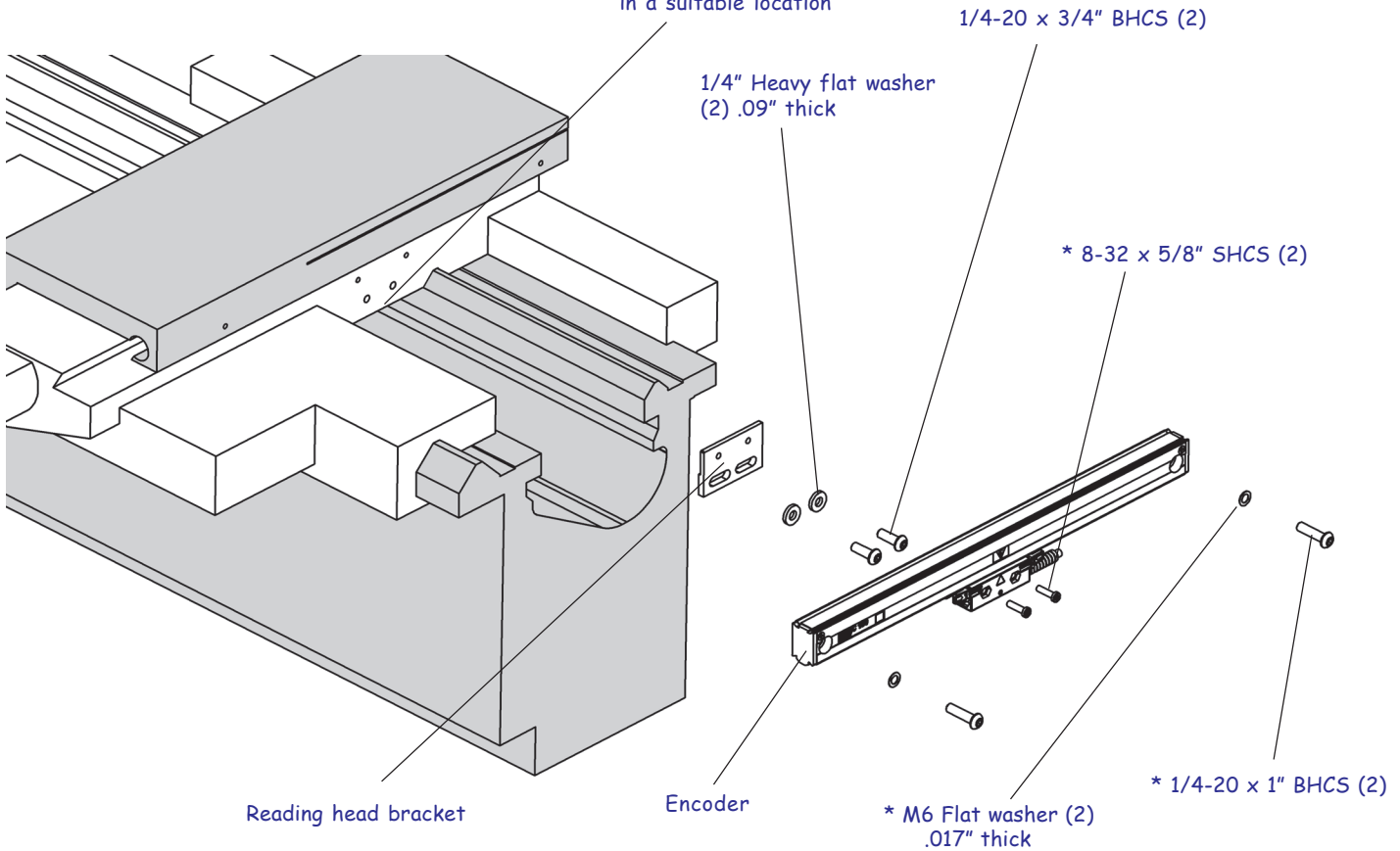


Longitudinal Installation ...

* Supplied with encoder hardware

Tail stock Stop
3/8-16 x 3-1/2 SHCS
Install near the reading head
in a suitable location



Mounting Information...

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

Before proceeding:

- Please read the instructions completely.
- Mount Z axis prior to installing the cross feed.
- Insure that the correct length encoder is being used for the total axis 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 ...

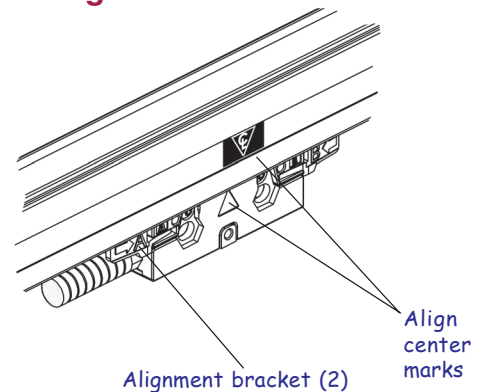
Machine

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

Encoder

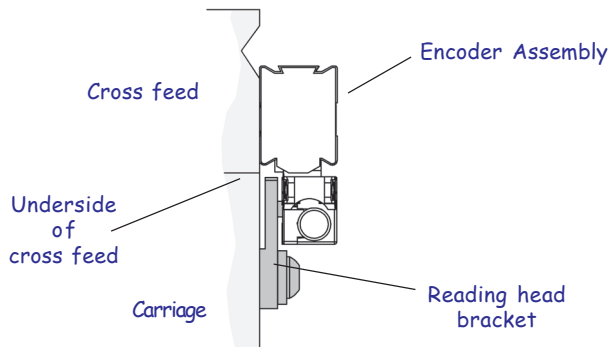
- ✓ Unpack encoder in a safe, convenient location.
- ✓ Do not remove the reading head alignment brackets until instructed.

Center reading head ...



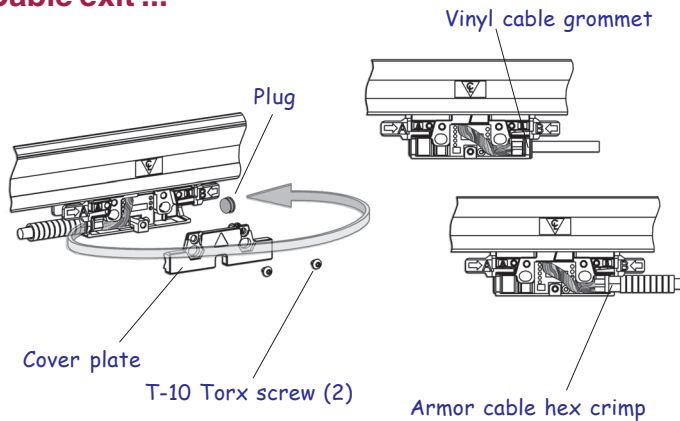
- Slide the reading head and brackets along the scale case until the center marks on the scale case and reading head are aligned.

Encoder orientation ...



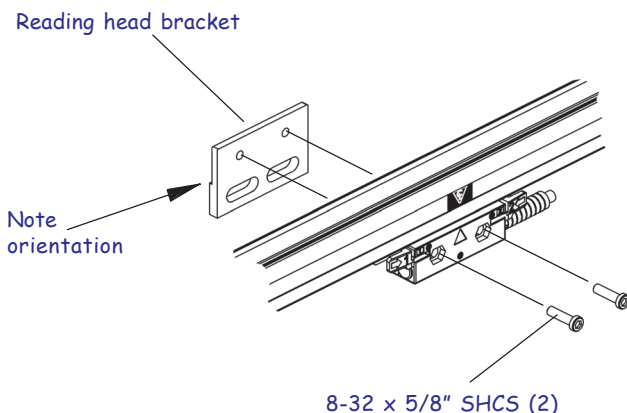
- These instructions will guide you through installing the encoder as shown in this view.

Cable exit ...



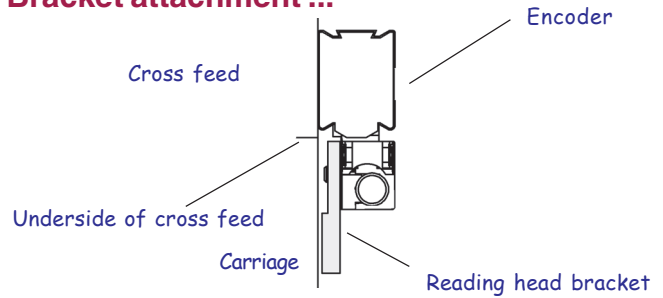
- Determine the cable exit direction before installing the encoder.
- To change the cable exit direction; remove the cover plate and rotate the cable 180°.

Encoder Installation ...



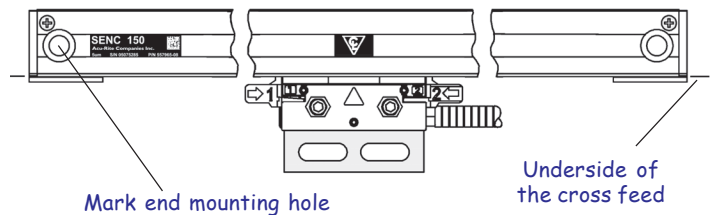
- Temporarily attach the bracket to the reading head.

Bracket attachment ...

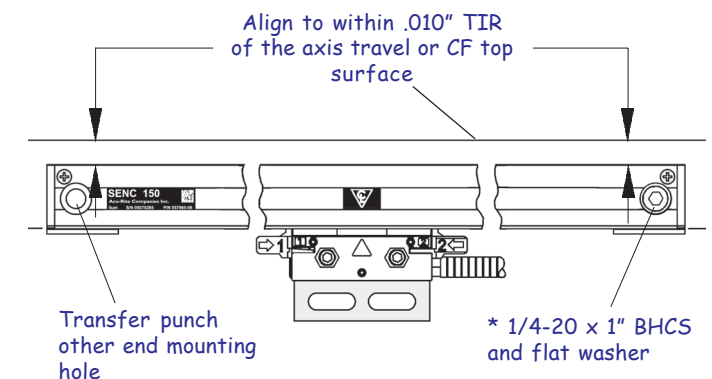


- With the cross feed at its center of travel, set the encoder against it and the bracket against the carriage.

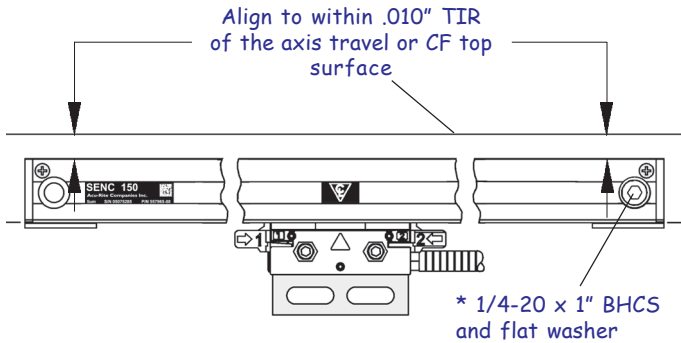
Note: The step in the bracket can not be above the underside of the cross feed.



- Center the encoder on the cross feed. Position the underside of the end caps flush with the underside of; (see note above) or parallel with the table top.
- Mark one end mounting hole location on the cross feed and remove the assembly.
- Drill and tap hole location for a 1/4-20 x 1/2" deep.



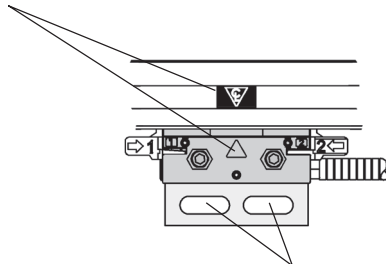
- Fasten the encoder assembly at one end.
- Align the top of the encoder to the axis travel or cross feed top surface.
- Transfer punch the second end mounting hole, and remove the encoder.
- Drill and tap hole location for a 1/4-20 x 1/2" deep.



- Attach the encoder to the cross feed.
- Align the top of the encoder to within .010" TIR.
- Secure the encoder in place maintaining alignment.

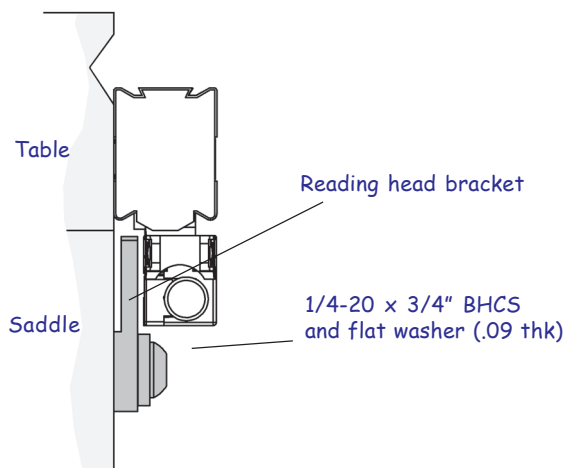
Reading head installation ...

Align center marks



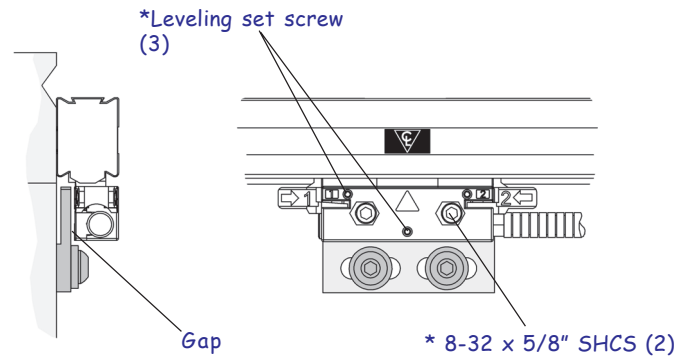
Transfer punch mounting slot centers

- Return the cross feed to its center of travel.
- Transfer punch bracket mounting slot centers to the carriage.
- Remove the bracket from the reading head.
- Drill / tap hole locations for 1/4-20 x 1/2" deep.



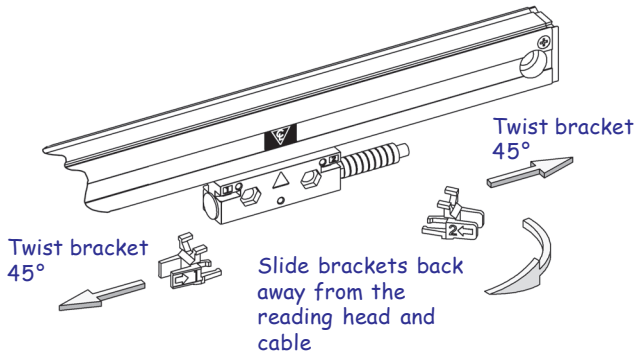
- Attach the reading head bracket to the saddle, and align the bracket tapped holes to the reading head mounting holes.
- Secure the bracket in place.

Leveling screw adjustment ...

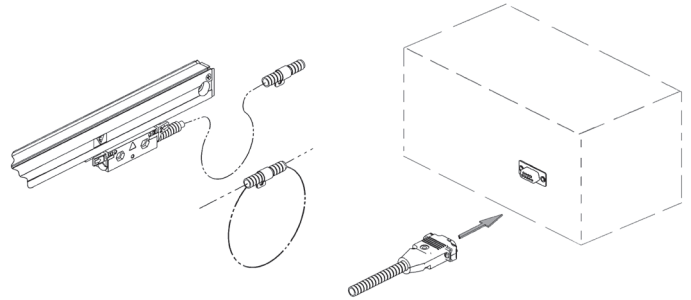


- A gap will exist between the reading head and the bracket.
- Insert the two *8-32 x 5/8" SHCS. Insure the bracket is adjusted to provide proper screw head clearance. **Do Not Tighten Screws** at this time.
- Set each leveling set screw by placing a .001" - .003" feeler gage between the set screw and 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 for possible future use.
- Move the axis through its full travel. Confirm that the assembly does not interfere with the machine movement.



- With both axis installations complete, 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”.