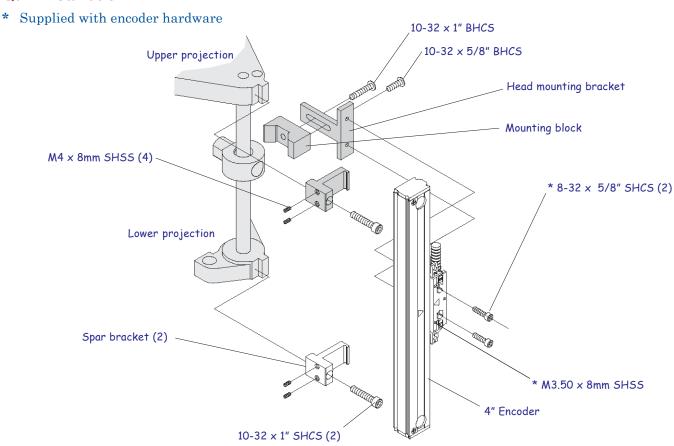
Quill Installation ...



Mounting Information...

These are application instructions for mounting the quill "Z" axis SENC 150 encoder.

Before proceeding:

- ➤ Please read the instructions completely.
- ➤ Ensure 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 ...

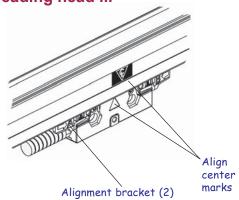
Machine

- ✓ Move the quill 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.

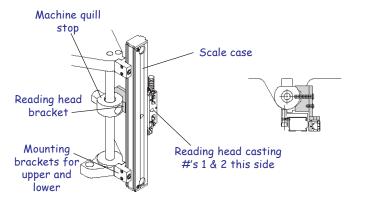




 Slide the reading head and brackets along the scale case until the center marks on the scale case and reading head are aligned.

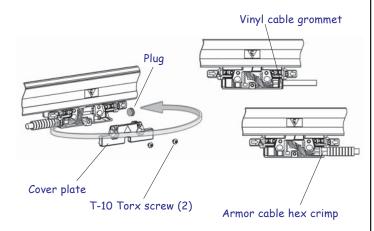
SENC 150

Encoder orientation ...



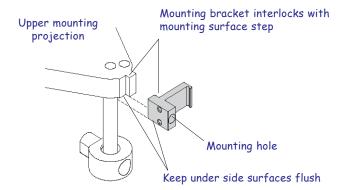
• These instructions will guide you through installing the encoder as shown in this view.

Cable exit ...

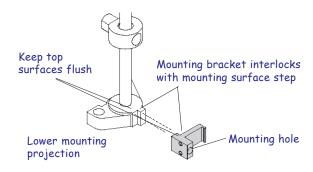


- Determine the cable exit direction before installing the encoder.
- To change the cable exit direction, remove the cover plate and rotate the cable 180°.

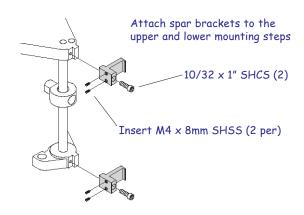
Encoder Installation ...



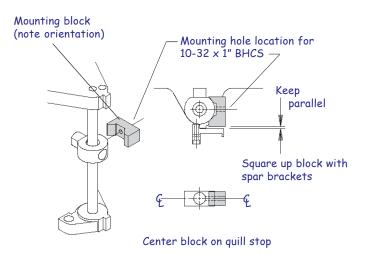
- Locate bracket to the upper mounting position.
- Transfer punch mounting hole location.
- Drill and tap hole location for a 10-32 x 3/8" deep.



- Locate bracket to the lower mounting position.
- Transfer punch mounting hole location.
- Drill and tap hole location for a 10-32 x 3/8" deep.

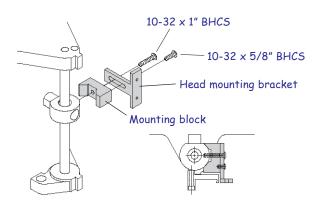


 Push each bracket tight to the step on the projection and secure in place.



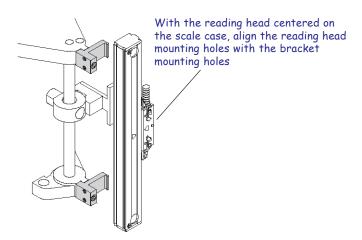
- Position the mounting block to the quill stop.
- Set the block square and parallel to the brackets.
- Transfer punch the mounting hole location to the stop.
- Remove block, drill thru stop wall and tap for a 10-32.

SENC 150

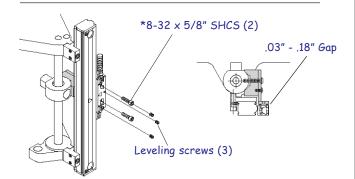


- Attach the reading head bracket assembly to the stop.
- Move the stop with the bracket assembly attached to its center of travel and lock in place.

Encoder installation ...

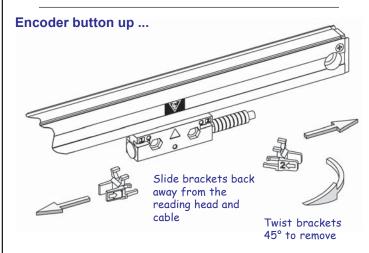


- Insert encoder into the brackets.
- Align reading head and bracket mounting holes.
- Lock encoder assembly in place by tightening the two set screws in each spar bracket.

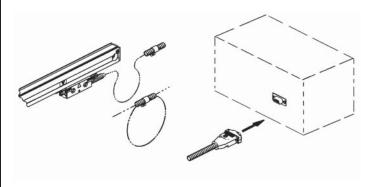


- Adjust the bracket so that there is a gap of .03" .18".
- Attach the reading head to the bracket with two *8-32 x 5/8" SHCS. **Do not tighten fasteners**.
- Set each leveling set screw by placing a .001"-.003" feeler gage between the set screw and the bracket.

- Adjust each set screw until a slight drag is felt on the feeler gage.
- Evenly tighten the two 8-32 x 5/8" SHCS.



- 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 longitudinal axis installation 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".