

Procedure Name.

Finding Absolute Encoder Zero Position.

Procedure Description.

To find where the encoder zero position is relative to the spindle shaft.

Supplementary Documentation.

None.

Procedure Details.

1. Connect the oscilloscope ground to any suitable machine ground.
2. Connect the oscilloscope signal to connector 5 or 7 of the J8VFM terminal strip, found on the left-hand side of the Optoform, towards the front of the machine.
3. Set the oscilloscope for a DC range of 5 volts Peak to Peak.
4. Depending on which terminal is used (5 or 7 in step 2 above) the signal will either be a constant zero, or constant 5 volts. Rotate the spindle by hand until a 5-volt change in signal is seen. This is the zero position of the encoder.
5. Make a mark on the spindle nose that corresponds to the zero position.

If a test on the stability of the zero position of the encoder to spindle relationship is to be carried out, the machine spindle should be cycled on and off several times. The above test should then be repeated to see if the mark made on the spindle nose moves relative to the encoder zero position.