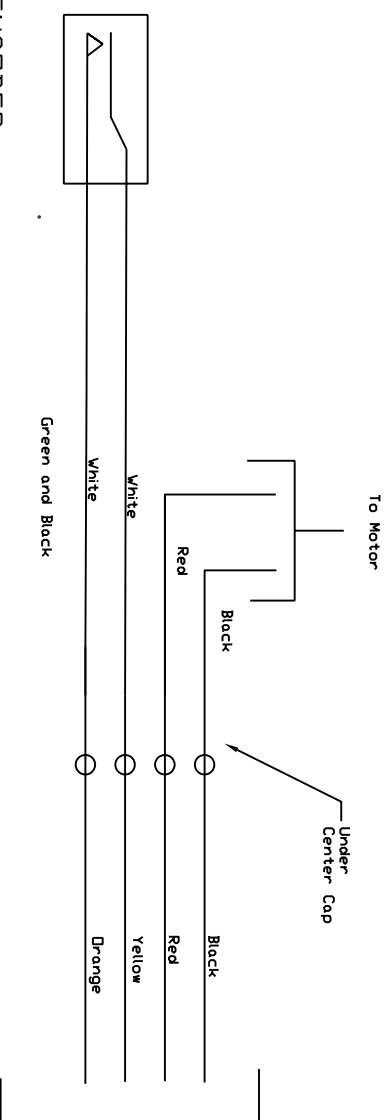


- The Tornado is a precision variable induction drive system. The motor requires 12 VDC to the Red and Black leads. To reverse the direction of the motor, simply reverse the polarity of the 12VDC. When the red lead is connected to the Positive side of the power supply and the black lead is connected to the Negative side of the power supply, the Induction value of the unit is increased, lowering the resonant frequency of the antenna. As the motor lead polarity is reversed, the induction value will decrease, raising the resonant frequency of the antenna. The MAXIMUM MOTOR CURRENT IS 1 AMP.
- Select models of the Tornado contain a shorting switch which will allow the user to bypass the induction coil. The shorting switch is engaged by compressing the coil to its maximum. The switch will start to engage about 3/4" before full compression. To ensure good contact, make sure that the coil is full compressed. Without a counter, this is evident when the motor stalls. Do not keep power applied to the motor while it is stalled. If necessary, jog the switch to limit the current to the motor in a stalled condition.
- The Tornado also contains a built in encoder which can be hooked to a counter for position control. This encoder will provide 26 pulses/inch or two pulses per revolution. The encoder is a reed switch actuated by two magnets on the drive shaft. The yellow and orange leads are the switch loop for the counter. The Brown wire is not used. The encoder does not need to be connected in order to operate the tuner.
- To control the Tornado Tuner it is highly recommended that the end user purchase the MFJ-1924 Screwdriver Antenna Controller. This controller provides motor over current cut out, counter display, and 10 presets.

-For more information or technical assistance,
Email: tornado@seco-systems.net



For serial no. 052 and up
10/30/09

- Red = Motor Lead
- Black = Motor Lead
- Yellow = Reed Switch
- Orange = Reed Switch

4 See Systems
Tornado Tuning Drive

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