

# INSTRUCTION SHEET

## Ten-Tec Regal desk microphone, model 707.

### GENERAL

The Ten-Tec Regal is a uni-directional dynamic microphone designed for communications station use for Amateur Radio and other transmitting applications. The unit consists of a chromed housing with 2 position 'PTT' switch with OFF and LOCK positions, foam breath screen and a dynamic microphone element. The element has tailored frequency response from 50 Hz to 16 kHz designed for excellent transmit audio in SSB, AM, and FM modes.

The underside of the Regal has a 4 pin male XLR jack and a threaded connection for attaching the microphone to accessory model 716 base. A connection cable wired for 4-pin Ten-Tec, 8 pin Ten-Tec (also used by Yaesu), 8 pin Kenwood (also used by Elecraft) or 8 pin Icom is required to plug the 707 into your transceiver. A non-polarized 1 mfd. capacitor is installed in the head of the microphone to isolate signal from polarizing voltage carried on the same pin by some Icom transceivers.

### INSTALLATION AND OPERATION

If you are using the accessory model 716 base (or another screw-on base or boom) attach the microphone to the base stand or boom before plugging in the microphone cable. Connect the XLR end of the microphone cable to the jack on the bottom of the microphone. Plug the other end of the cable into your transceiver mic jack.

The slider switch on the front of the mic is for 'PTT' operation. Slide the switch up to transmit, slide the switch down to return to receive.

The microphone element in the Regal is always 'live' for VOX operation. For VOX operation on a Ten-Tec transceiver, activate the VOX circuitry and then speak into the microphone. It is not necessary to move the 'PTT' slider switch on the mic to the upward 'transmit' position.

Depending on the timbre of your voice, the distance to the microphone and how loud your speaking voice is, your transceiver settings with this microphone will vary. These starting points for current Ten-Tec transceivers are a good guide for where to begin. Make further adjustments as desired. **ORION / ORION II:** TX BW 2700 Hz, LF ROLLOFF 80 Hz, TX EQ 0 dB, H/W MIC GAIN 3.0 dB, MIC GAIN 55. **OMNI VII:** SSB TX BW 2800 Hz, TX ROLL OFF 80 Hz, TX EQUALIZER 0 dB, MIC GAIN 50%. **JUPITER:** TX FILTER BW 2700 Hz, TX ROLL OFF 80 Hz, MIC IN BOOST 12 dB, MIC GAIN 50%.

### SPECIFICATIONS

TYPE: Uni-directional dynamic microphone.  
FREQUENCY RESPONSE: 50-16000 Hz  
SENSITIVITY: -78 dBV +/- 1 dBV @ 1 kHz (0 dBV = 1 V/u Bar @ 1 kHz)  
OUTPUT IMPEDANCE: 250 ohms +/- 30%  
HOUSING: Chrome Plated  
DIMENSIONS: 6 5/8" H x 2" W x 2 5/8" D (16.8 x 5.1 x 6.67 cm)  
WEIGHT: 1 lb., 3 oz. (540 g).

Ten-Tec, Inc., 1185 Dolly Parton Parkway, Sevierville, TN 37862 USA. (865) 453-7172  
[www.tentec.com](http://www.tentec.com)