

## DEM YBC

### HF, VHF, and UHF Band Controller for YASEU Transceivers

#### Description:

The DEM YBC is designed primarily for the FT-991, FT-897 and FT-857. It splits the two common antenna ports from the transceivers HF/6M and VHF/UHF ports into 4 separate ports, **HF**, **6M**, **VHF** and **UHF** and provides separate PTT outputs per band to control external equipment such as linear power amplifiers or antenna switching equipment. This is all controlled by selecting the desired band of operation with the transceiver's band control or by computer interface through the transceiver. The YBC's circuitry is housed in a machined aluminum enclosure that is black powder coated to match the Yaesu FT line and with its labeling laser etched.



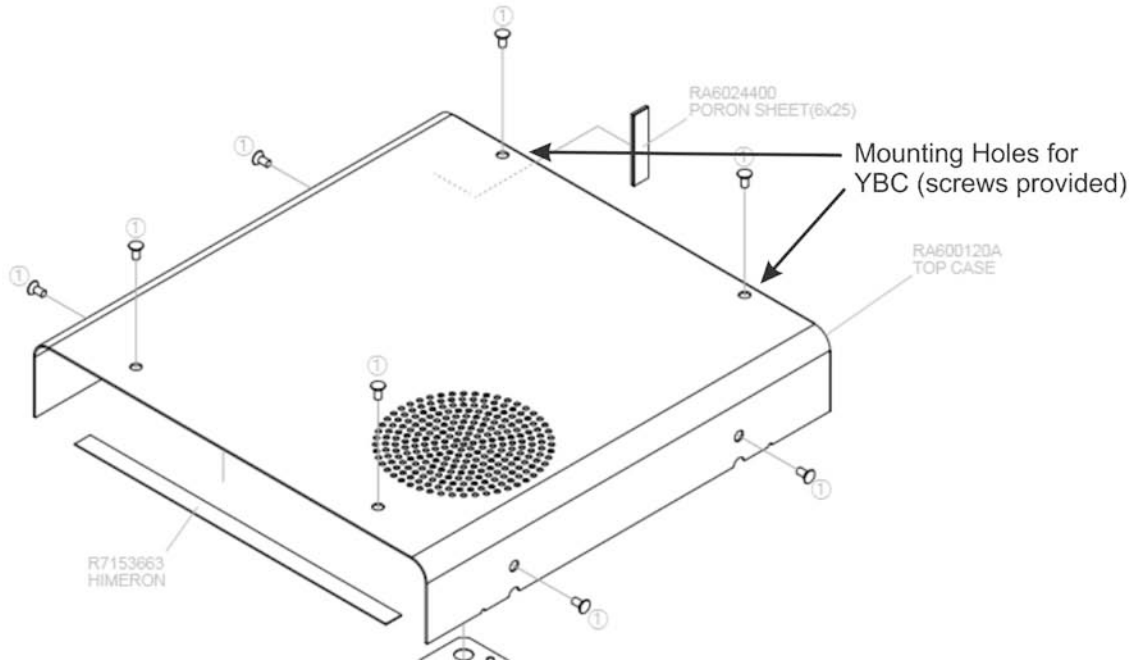
Controlling the YBC is done by connected to the **TUN/LIN** or **CAT/LIN** mini din jack of the transceiver with a supplied cable. After a simple enabling in your transceivers menu it is ready to operate. If you utilize a Yaesu QUADRA power amplifier, the YBC has a loop through 8 pin Mini DIN connector to maintain its control. An added feature is a simple **HF** PTT output that is active when the transceiver is on any band between 160 and 10 M to control any other brand of power amplifier bypassing the use of the mini DIN connector. You do not lose any functions of your existing transceiver/amplifier system. The YBC shown has the optional Type "N" connectors for the VHF and UHF bands. Any combination is possible.

#### Easy Set up:

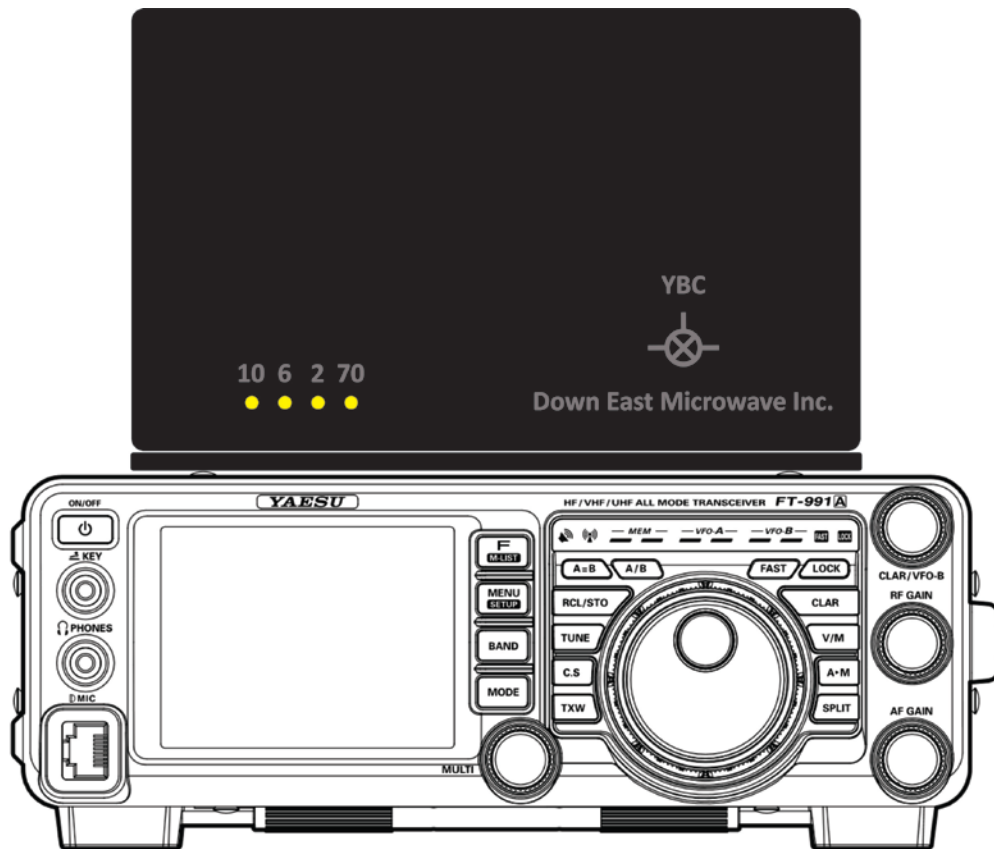
After making the menu setting to activate the **TUN/LIN** jack on the FT991 or the **CAT/LINEAR** jack on the FT 897/857 and making the correct RF cabling connections, operation between 160M and 70cm is a push of the band button or a click of the mouse with your computer operation program.

Chose from four (4) different internal jumper settings of which provide the use of any HF or HF/6M power amplifier including the Yaesu QUADRA. No modifications or other external equipment is required for full functioning 160M – 70cm (less 1.25 M) System. There is a setting to allow the use of a 10 M IF transverter with the other VHF/UHF bands to fill in with 222 MHz or include a higher band. Each band selection has a separate PTT control for adding any additional equipment to the HF, 6M, 2M and 70cm bands. The YBC is provided with a mounting bracket and hardware to mount it to your transceiver as show on the next page or anywhere in your system that your RF cable lengths dictate.

The YBC is provided with a simple to understand document to allow you to make the correct jumper setting to get the most out of your system but in its basic form, it provides the RF switching and PTT control of any external equipment added to your system. Set it and forget it!



Top cover of the FT-991 showing where you can mount the YBC for complete operation



Pictorial of the YBC mounted to a FT-991 showing Band indicators