

How to use your HARRIS amplifiers RF-353 or RF-355 in automatic mode, without the HARRIS transceiver RT-1446

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Technical Harris documents available:

RF-353 / AM-7224 Operation manual and service manual.

RF-355 / AM-7223 Operation manual and service manual.

General description of operation without RT-1446:

Step 1:

Inside amplifier, detection of the band to be used for amplification by the automatic band decoder, and, then, move the bandswitch to the right band. This is done, in by-pass, when you tune the antenna coupler, or transmit without amplifier. Power ≥ 5 watts is required.

Step 2:

With amplifier in service, make the " Tune For Max ", either manually, or automaticaly. This vary the tuning coil inductance inside output PI network. This is done in the remote control box, either with a manual switch CW / CCW, or with the automatic " Tune For Max " board . Power ≥ 20 watts is required.

Adaptations are described in 4 parts.

Part 1: Remote control box With 2 LCD's bargraphs.

Part 2: AGC voltage inverter and FWD power voltage buffer.

Part 3: Automatic band decoder with PIC 16F628A.

Part 4: Tune For Max with PIC 18F1320.

That's All Fox !!!!! Enjoy

