# Dentron DTR-1200L Amplifier Tune Procedure…



With the Amplifier turned off and plugged into AC…

## Amplifier Setup

1. Set the meter switch to "Vp"
2. Set the "Duty" switch to "Normal"
3. Set the "Band" switch to the appropriate band in use.
   E.g. 80m / 3.5mhz, 40m / 7mhz, 20m / 14mhz, 15m / 21mhz
4. Set the "TUNE" control as follows: 80m = "75", 40m = "50", 20m = "25", 15m = "10"
5. Set the "LOAD" control as follows: 80m – 40m – 20m = "1" and 15m = "3"

## Transmitter Setup

6. Set the Transmitter to CW mode and key speed around 30-50wpm.
7. With the Amplifier in standby, Tune Transmitter to max RF out into a dummy load then with the Carrier Level Control, reduce the power output to 30 watts.

## Amplifier / Transmitter

8. a) Set the Amplifier STBY / XMIT switch to "STBY"
   b) Set Amplifier Main Power and Plate Voltage switches to "On" and wait a few seconds.
   c) Set the meter switch to "Vp" and Verify Plate Voltage is about 2,200vdc
   d) Set the meter switch to "Ip" and Verify Idle Current is about 50ma
9. a) Set the Amplifier STBY / XMIT switch to "XMIT"
   b) Set Amplifier Main Power and Plate Voltage switches to "On" and wait a few seconds.
   c) Set the meter switch to "Vp" and Verify Plate Voltage about 2,200vdc
   d) Set the meter switch to "Ip" and Verify Idle Current is = 0ma
10. Key the Transmitter…
11. Adjust the Amplifier "TUNE" then "LOAD" controls for max RF output
12. a) Repeat the tune cycle above (step 10 - 11) while each time increasing the Transmitter RF output until the maximum plate "Ip" current is reached - NOT to exceed 500ma
    b) Do not use more Transmitter RF output than is required for maximum Amplifier output.
13. a) Set the Amplifier meter switch to the "Rel-Out" position and adjust the "Sens." Control so that the meter reads mid scale on transmit.
    b) Increase the Load control until power drops about 10% (over-coupling to save tubes)
    c) Adjust the ALC control until there is a slight decrease in the meter reading upon transmit.

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