

Tuning Procedure for the OM Power 2000+ Amplifier.

The following procedure is the “second tuning method” shown on page 26 of the operations manual of the OM2000+.

1. Select the band with the band selector.
2. Set the TUNE and LOAD knobs to the suggested positions in the table provided with the amplifier. NOTE: These values may have been rewritten during testing at Array Solutions’ RF Lab.
3. Set your transmitter to 15 to 20 W output. Stop transmitting.
4. Press the S1 button (under OPER shown on the screen). This will set the amplifier to “Operate” mode. Note that the screen will show STBY, indicating the action if the button is pressed again.
5. Press the S2 button (under TUNE shown on the screen). TUNE will disappear and STOP will start blinking. **DO NOT press S2 button for STOP now**, this will be done at the end after the tuning for maximum power output is finished.
6. Start transmitting. Slightly move the LOAD knob looking for the tuning indicator, at the 3rd row on the screen, to move towards the center between the two arrows. These arrows may disappear while moving the tuning indicator to the center, once the indicator is at or near the center the arrows will show again. If the indicator moves towards the center but does not reach it, increase the driving power while transmitting, this will make the indicator move to the center.
7. Slightly move the TUNE knob to get maximum power indicated at the bar at the top row of the screen. While this is done the LOAD tuning indicator may move out of the center, most of the times to the right. To set the LOAD tuning indicator back to the center the LOAD knob normally will have to be moved towards the right (clockwise) to a higher position number.
8. Readjust the TUNE knob again for maximum power output and adjust the LOAD knob if the LOAD indicator at the bottom of the screen has gotten out of the center.
9. Increase the power of the transceiver slightly while watching the LOAD tuning indicator. If it moves out of the center, readjust the LOAD knob (probably to the right or clockwise) until the LOAD tuning indicator is centered.
10. Repeat steps 7-8-9 until necessary adjustments are too small or none and the desired power output is reached. The screen should look like this once the amplifier is properly tuned:



11. Stop transmitting and press the S2 button (under the blinking STOP on the screen) to get the amplifier out of the TUNE mode. The screen will show “TUNE” above the S2 button. The amplifier is tuned and ready to operate.

NOTE: The values shown in the tuning table or the corrected values written after testing the amplifier at Array Solutions’ RF Lab are adjusted for 1500 W output into a 50 ohm load, higher power levels will require further adjustments and tuning. Other loads than 50 ohm will require different tuning number positions on the LOAD and TUNE knobs.

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