

Autotuning mode



We are in the **Main display**, bar graphs defined, antennas preprogrammed, CAT was set. We are ready to go to the operation mode.

Press the black **STBY/OPER** button on the front panel.



We are now in OPERATE mode.

Note the light indicator on the touch screen has changed to **OPERATE**.

Press **MENU**.



We have a new **A-TUNE** button here.

If you need to fine-tune the amplifier's output press the **A-TUNE** button



NOTE: The amplifier is factory adjusted to a maximum designed output power into a 50 Ohm load. A unique Tuning table, with TUNE and LOAD values for every band, is supplied with each PA.

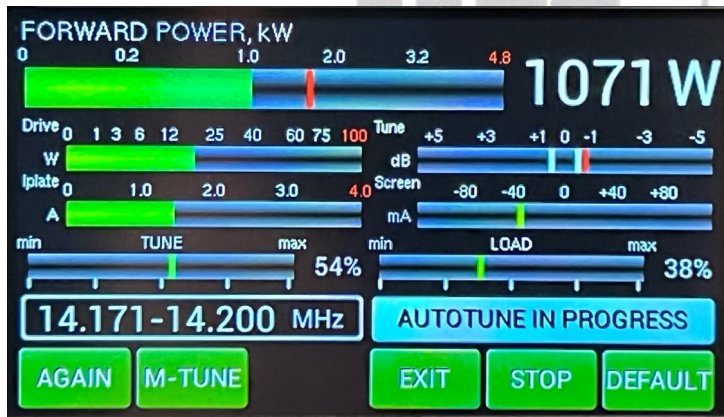
When the antenna impedance has greater variance from 50 Ohms, it may be the case that the PA cannot deliver the full output power, or some of the protection circuits may be automatically activated. In such cases we recommend doing a auto tuning. (A-TUNE).

If you use the amplifier for a long time at a lower output than it is designed for, we also recommend performing an A-TUNE.



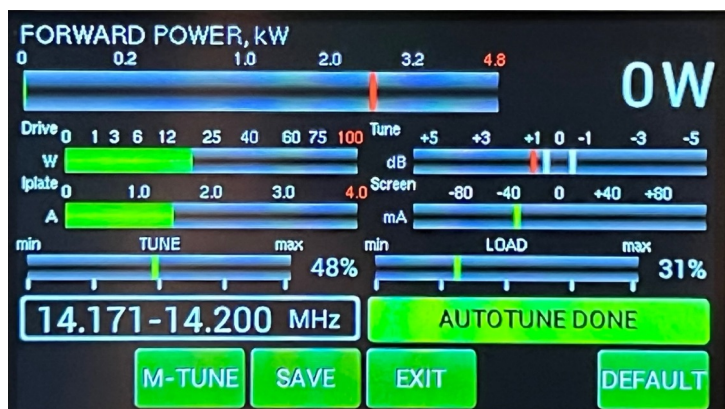
We are now in the **A-TUNE** screen.

To start the process, it is necessary to turn on the **PTT** and apply a permanent carrier (CW or RTTY mode) to the input of the amplifier.

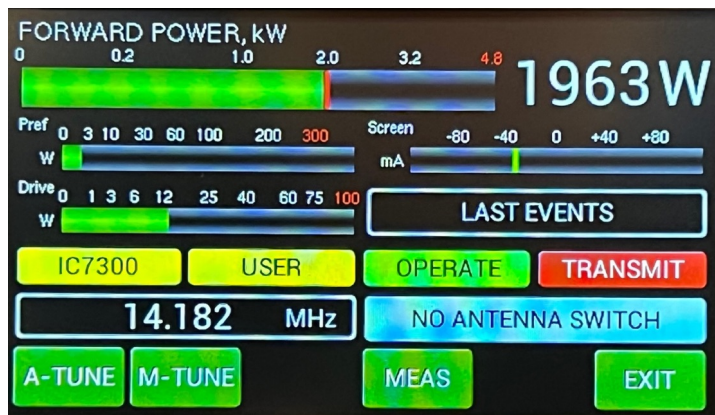


During the A-TUNE process, we will see **AUTOTUNE IN PROGRESS** information on the screen.

The length of the tuning depends on the impedance or power deviation, and the tuning itself can take from a few seconds to a minute. During this time, the PTT must be permanently switched on and a permanent carrier must be present.

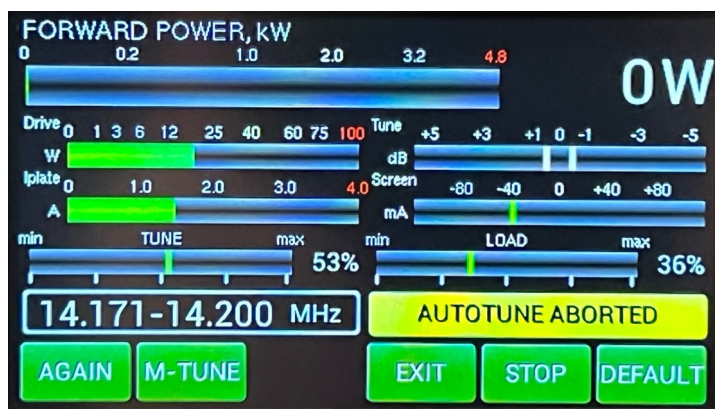


If the A-TUNE process is completed successfully, we will see the message **AUTOTUNE DONE** on the screen and the set values will be written to the memory.



After successful tuning and writing the TUNE and LOAD values into the memory, the amplifier will return to the basic screen.

The black window **DEFAULT** indicating the factory tuning setting will change to yellow **USER** which informs us about the user tuning of the amplifier.



If the carrier or PTT is interrupted during the A-TUNE process, the message **AUTOTUNE ABORTED** will appear on the screen. After the carrier is restored, the tuning process continues.

If PTT is interrupted, the whole A-TUNE process starts again after PTT is restored.

At the same time, the following function buttons will appear on the bottom edge of the screen:

AGAIN - button to restart the A-TUNE process

M-TUNE - button to enter the manual tuning mode of the amplifier

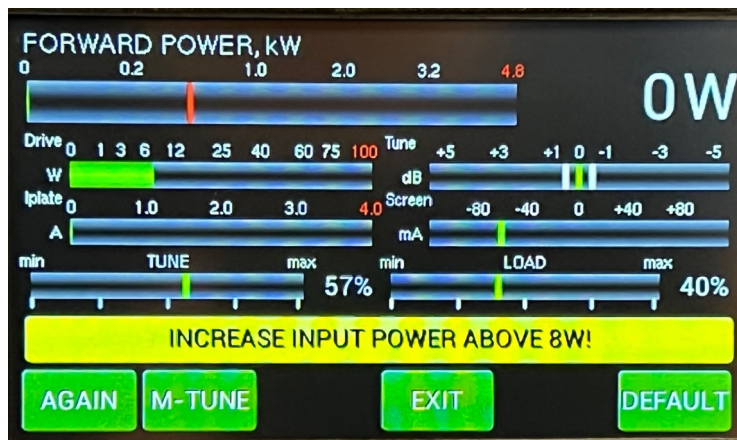
EXIT - ending the A-TUNE mode with a return to the original values

STOP - termination of tuning with the possibility of saving values

DEFAULT - return to original factory settings



The automatic tuning process is started if the input power of the amplifier is in the range of 25 to 100% of the power required for the full power of the amplifier.



If the drive power is outside the required range you will be notified by a message in the yellow window.

