

AM/FM Power Set Procedure

For AM or FM power levels must be adjusted in that mode. For AM mode set carrier no higher than 275 Watts. AM requires peak power of 4 times carrier level.

TROUBLESHOOTING

Transmit Fault Indications

Bypass SWR: [as seen on display]

Amp is in BYPASS to protect from high SWR. This indication shows up whenever SWR is, (or has been) over 2.5:1 during a transmission. Transient faults such as antenna arcing can show a low SWR after the fault event, while transmitter is still keyed up.

Solution:

- 1) Make sure correct LA-1K antenna connector is selected.
- 2) Verify that your HF-AUTO or other tuner has obtained a good match while amp is in standby. Attempting Auto tuning at high power can cause this "Bypass SWR" alert.

With some autotuners it may be necessary to select manual mode after obtaining a low SWR to prevent unwanted tuning in the middle of your transmission.

- 3) If antenna arcing or loose connection is suspected, try the amplifier on a dummy load. If it works normally, there is likely some type of intermittent SWR problem.

Bypass TEMP: [as seen on display]

Amp is in BYPASS to protect from high temperature. Temperature will show in red when temperature exceeds 71 degrees C. When the heatsink temperature exceeds 100 degrees C. "**Bypass Temp**" will show on the display. (Amplifier locked in Bypass)

Solution:

Allow time for the heatsink to cool down to below 70 degrees C.

Operate mode will automatically return. Verify that nothing is blocking proper airflow through the side vents.

Note: High SWR, or prolonged transmission in carrier modes, may cause elevated temperature.

Bypass+VD: [as seen on display]

Amp is in **BYPASS** to protect from loss of +50V, drain voltage supply. The indication should clear in a few seconds. This occurs **when operating on 120V**, if Drain Current (Id) exceeds **32 Amps**.

Solution:

Switch supply voltage to **240V**, or If operating on 120V, Reduce Drive Power.



TX Wait: [as seen on display]

This shows on display when the PTT Line is grounded but **NO RF** is present. RF must be applied with **PTT line** low to key the amplifier to the transmit state.

Other Issues:

Won't amplify or autoband switch when transmitting.

Solution:

Make sure that the PTT cable is connected to the transceiver. This is a **REQUIRED** connection. Note that **"TX"** will show on display whenever the **PTT** connector sees a ground. Some transceivers must have their PTT keying output enabled in the **transceiver's menu settings**.

Low SWR on transceiver, high SWR on LA-1K

This problem arises when you observe Low SWR on transceiver, but the LA-1K shows High SWR.

Solution:

Always **disable** (i.e. Bypass) **the autotuner in your transceiver** when driving any amplifier.

The transceiver's autotuner can not match loads connected to the amplifier's output.