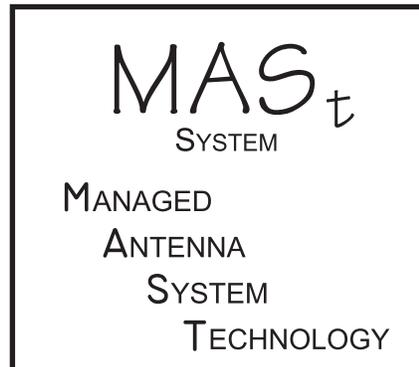




**Audio Specialties Group
Products Division**

**MAS-538
Single Channel Transmit Amplifier**

QUICK START GUIDE



REV-0

Audio Specialties Group and any of its vendors, dealers or representatives forbid the use of this product in any way that is contrary to FCC Regulations.

Utilizing this product in a manner which is contrary to FCC Regulations is expressly forbidden.

Maintaining power levels to within FCC regulations is the sole responsibility of the user.

MAS-538 Quick Start Guide

- 1 Secure the MAS-538 in an ASG Products mounting frame or stand-alone on a flat surface while maintaining un-obstructed air-flow at the front and rear of the chassis
- 2 Connect a dummy load or intentional radiator (antenna) to a verified fault free, 50-ohm, BNC terminated transmission cable.
- 3 Connect the other end of the transmission cable to the BNC connector labeled "OUTPUT" on the rear panel of the MAS-538
- 4 Apply AC power with the supplied IEC-Type AC mains power cable.
- 5 Energize the MAS-538 by depressing the "AC MAIN POWER" switch on the front panel.
- 6 Once energized, the internal micro-controller will run a 2-second self-test. At this time, the "TEMP" indicator will illuminate to verify the function of the indicator. *It does not indicate the condition of excess temperature during this initial phase.*
- 7 Once the self-test period has passed, the "CPU" LED will flash at approximately 2-Hz rate. This is the heartbeat of the micro-controller and should always be in this state during normal operation.
- 8 The MAS-538 does not energize the DC supply current to the RF Amplifier sub-system on initial power-up. This prevents possible safety concerns which could arise from un-planned power outages.
- 9 To energize the RF Amplifier sub-system, the "DC POWER" switch on the lower, right front-panel needs to be pressed **TWICE** on initial power-up. Once the switch has toggled to the ON state once, subsequent state changes only require the button to be pressed once to re-energize.
- 10 Once the RF system is energized, RF energy can be applied to the "INPUT" BNC connector on the rear panel.

Note: The MAS-538 is equipped with several thermal and fail-mode sub-systems.

1 A micro-controller driven LED on the front panel will illuminate when the amplifier heat-sink exceeds a pre-determined, factory temperature. The unit will continue to work as normal even if this temperature is exceeded.

2 A thermostatically controlled bypass of the front panel AC power switch allows the AC cooling fan to continue running even if the AC MAIN power switch is in the off position. This allows cooling to continue in an over temp condition. *It is important to maintain the AC power supplied to the MAS-538 to allow this feature to operate as designed.*

3 In the event of a RF Amplifier sub-system over-current condition, an internal fuse will blow thereby disabling the DC supply current. This condition is indicated by a rapid flashing of the green LED indicator in the DC power switch.

 Note, the fuse must be replaced if this condition is achieved; **it does NOT auto-reset.**

 The indicator will only flash if the ON state has been activated and the fuse is blown.

Cautions:

 The MAS-538 is capable of 5-watts of RF power output +37dBm into a 50-ohm load. Exercise caution when connecting this amplifier to other equipment. Verify that the cabling is fault-free and that the other equipment is capable of withstanding this level of RF energy.

 Do not obstruct air flow and do not operate in direct sunlight or other areas where ambient temperature may exceed 90-degree F. without additional air-flow or air-cooling system.