

I'm not robot!

METERING FUNCTIONS
 The AL-811 has two illuminated panel meters. The right meter reads PA grid current up to 200mA. The normal current with a single tone (carrier) signal will be around 150mA. If the current is too high during full power operation, the loading control should be advanced to a higher setting.

If the current is too low, the loading control should be turned to a lower setting. The left meter reads PA high voltage of 2000 volts and plate current of 750mA. The normal readings are 1500-1700 volts HV and 550mA of current at full rated output with a single tone signal.

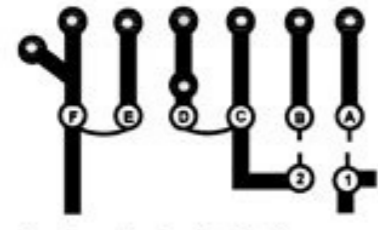
INSTALLATION

Operation on a voltage of 240V is not required, nor will it necessarily improve performance. The power transformer will perform equally well with a power line frequency of 50 Hz or 60 Hz. The Transformer Connections chart at the bottom of this page shows proper connections for various line voltages.

The AL-811X (export model) is wired for 240V, 50/60 Hz operation. The appropriate plug is not provided for this model. You must wire the proper plug on the end of the power cord supplied. Simply cut the existing plug off and wire the appropriate plug in its place. If the line voltage in your country is not 240V, then you must change the transformer to the appropriate setting indicated by the chart below. **Warning:** the AL-811 transformer allows operation on 100V line voltage in countries such as Japan.

NEVER REWIRE THE POWER SUPPLY TO BOOST THE HIGH VOLTAGE ABOVE 1800 VOLTS.

The wiring between the fuse box and the amplifier AC outlet must be 14 gauge or larger in order to supply the operating current required (8 amperes) without a significant drop in the line voltage. The outlet should be fused for the wire gauge used.



Factory wired operation for the AL-811

Factory wired operation for the AL-811X

VOLTAGE	BUCK BOOST	PRIMARY
120	A to 1, B to 2	C to D, E to F
110	1 to 2, (A,B open)	C to D, E to F
100	A to 2, B to 1	C to D, E to F
For 240, 230, 220 all three primary conditions apply.		
240	A to 1, B to 2	no connection C to D
230	1 to 2, (A,B open)	D to E
220	A to 2, B to 1	no connection E to F

LOCATION

Do not operate the amplifier in excessively warm locations or near heating vents or radiators. Be sure air can circulate freely around and through the amplifier cabinet. Provide an unobstructed air inlet for the blower. Do NOT place any books, magazines or equipment that will impede the free flow of air near the sides of the cabinet.

VENTILATION

The AL-811 ventilation system has been designed and tested to maintain the 811A tube temperature safely below the tube manufacturer's rating at 400 watts output with a 100% duty cycle. To insure proper ventilation in your installation, observe the following:

1. Do not block or restrict the ventilation holes in the cover.
2. The exhaust air flow is over 20 CFM. Do not "nose" the air flow unless the fan exceeds the AL-811 fan CFM by a factor of 2:1.
3. Do not mount additional fans on the AL-811 cabinet.
4. The exhaust air will become warm at high power levels. Do not place any heat sensitive objects in the exhaust air stream.

GROUNDING

Connect a good earth or water pipe ground to the ground post on the rear panel of the amplifier. Use the heaviest and shortest connection possible.

Before you use a water pipe ground, inspect the connections around the water meter and make sure that no plastic or rubber hose connections are used. These connections interrupt electrical continuity to the water supply line. Install a jumper around any insulating water connections you may find. Use heavy copper wire and pipe clamps. It is best to ground all equipment to one point at the operating position and then ground this point as described above.

POWER CONNECTIONS

The AL-811 is supplied with a NEMA 5-15P plug for 120V operation. The power required to operate the AL-811 is not high enough to warrant 240V operation unless 120V is not available. The fuses should be 12 ampere fuses for 120V and must be changed to 8 amperes for 240V operation. The diagram to the right shows the proper wiring for 120V operation.



AMERITRON AL-80
Compact Kilowatt Amplifier

INSTRUCTION MANUAL



The Ameritron AL-80 Linear Amplifier is designed for 1500 watts PEP SSB (continuous) and 1000 watts CW QSK (full break-in) operation. The AL-80 covers the amateur radio bands 160 through 15 meters. It also features wide frequency coverage for MARS, and other services authorized a kilowatt of power.

The AL-80 uses a 3-500Z zero-bias triode in a class AB₂ grounded-grid circuit configuration. A built-in ALC circuit controls the exciter gain to allow the highest average power without peak clipping. The front panel meter indicates plate current, grid current and plate voltage.

The AL-80 operates from 117/234, 50/60 Hz primary line voltage.

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