

SERVICE BULLETIN

MODE: ALL PRESIDENT CITIZENS BAND MOBILE TRANSCEIVERS

SUBJECT: PERFORMANCE REQUIREMENTS FOR AC POWER SUPPLIES

It is most desirable to use a regulated supply set to 13.8 VDC output with 1% or better regulation and load current capability of at least 3 amperes continuous. Such a supply may be used with any President mobile unit. A supply with a capability of at least 2.5 amperes will be satisfactory for any President AM mobile unit.

In view of the fact that many non-regulated or poorly regulated supplies are available and frequently used, minimum standards must be considered in determining the suitability of a particular power supply unit. The following minimum standards should be followed if satisfactory performance is to be obtained. These apply to both AM and SSB transceivers:

1. Open circuit (no load) DC supply voltage must not exceed 15.0 volts.
2. With the receiver turned on with no signal and squelch closed the DC supply voltage must not exceed 14.8 volts.
3. With the receiver turned on with a strong signal, the squelch open and the volume control fully advanced the DC supply voltage must be between 13.1 volts and 14.5 volts.
4. With the transmitter keyed (AM mode if SSB/AM unit) but without modulation the DC supply voltage must be between 14.1 volts and 12.5 volts.
5. With the transmitter keyed and with a continuous tone modulation the DC supply voltage must be between 14.0 volts and 12.5 volts.

Please note that all five criteria must be satisfied to have an acceptable supply. It should also be noted these standards apply only to accessory AC supplies and must not be construed to be universal limits that might also apply to batteries or other types of supplies.