Monicor Electronic Corporation Monicor (c)

APPLICATION NOTE 063

TITLE: Voltage change for IC-20 (2 Watt) radio modems.

IC-20 radio modems will now operate at a lower input voltage. Current models require 12 volts at 1 amp. New models after this date will operate at 7.5 volts at 1.5 amps. The reason is that a change was made in the power amplifier to a more efficient design, consequently reducing the overall power dissipation of the radio modem.

In order to insure that existing cables with 12 volt power supplies are not inadvertently connected to the new IC-20 radio modems, a change has been made on the input voltage pin (Pin 1). It has been exchanged with the audio output pin (Pin 9). All other pins remain the same.

If a cable with a 12 volt 1 amp power supply is connected to a new IC-20, no damage will result, and visa versa, because of this pin change.

The radios will have a CAUTION label on the radio and new power supplies. Monicor will provide a new power adapter (7.5 volts @ 2 amp), part number 10000-392-007. The power supplies will also have a CAUTION label.

Radios will have the same basic part numbers, with the exception that the final 3 digits will be 201 rather than a 101.

Part numbers are shown below:

Network Radios: Part Number Description

<4800bps - High Speed> 60302-000-201 IC-20-48ME 2 Watt Metal Enclosure Remote Unit 60402-000-201 IC-20-48ME 2 Watt Metal Enclosure Network Controller

<2400bps - Standard Speed> 60102-000-201 IC-20-ME 2 Watt Metal Enclosure Remote Unit 60202-000-201 IC-20-ME 2 Watt Metal Enclosure Network Controller

Point to Point Radios:

<4800bps - High Speed> 60305-000-201 IC-20-48ME "B" 60405-000-201 IC-20-48ME "A"

<2400bps - Standard Speed> 60105-000-201 IC-20ME "B" 60205-000-201 IC-20ME "A"