Setting up AM transmit

AM transmit capability has been added to the Jupiter and Pegasus transceivers. The transceiver must be adjusted before using AM transmit to set the carrier level. The carrier level should be adjusted to 25 Watts or less. The basic steps are similar on the Jupiter and Pegasus transceivers. In addition, the Jupiter has an additional auto-set mode. The microphone gain should be adjusted in SSB mode to prevent over modulation while in AM mode. If you are already using the transceiver in SSB then the setting should be fine. Presently AM Transmit Bandwidth is not adjustable.

JUPITER 538

On the Jupiter, two controls operate differently while in AM mode. The PWR setting control changes to become AM DRIVE control. This control is used to adjust the carrier level. The TUNE button activates a function called AM-AUTO-SET. When TUNE is pressed the transceiver will turn on the transmitter and adjust the AM-DRIV control for a nominal 25 Watt carrier. It takes the transceiver several seconds to perform this operation. When the process is complete the transceiver will return to receive. It is important to know that during this process the output from the transceiver will be a full 100 Watts. A dummy load should be used and any amplifiers in line should be switched to bypass. After the AM-AUTO-SET the AM DRIVE control can be used to adjust the output if needed. The PWR setting is not accessible in AM mode as AM DRIVE is used to adjust the power output.

PEGASUS 550

On the Pegasus, an AM SETTINGS panel has been added to the settings box. This box contains the AM CARRIER control which is used to adjust transmitter output. This control should be adjusted for 25 Watts or less of output when keyed down in AM mode with no modulation. The microphone PTT or the T-X control may be used to key the radio while adjusting the AM CARRIER. The TUNE button should not be used because this will cause the transceiver to transmit in CW mode. The AM CARRIER setting may be adjusted as needed for amplifier operation but should never be set for more than 25 Watts of output. The Output Power settings on the TRANSMITTER settings screen has no effect on the AM transmitter.