

TALKBACK IN THE HR2510

This modification allows you to convert the SWR/CAL knob to function as a AM/FM carrier control without losing the ability to calibrate the SWR with the same knob.

- (1) Remove VR103.
- (2) Remove Brown and white wire from SWR/CAL knob PC board.
- (3) Cut PC trace on 3rd leg of board to separate it from ground.
- (4) Hook brown and white wires to VR103 and hook 3rd leg to ground.
- (5) Run 2 wires from VR103 holes to SWR/CAL knob, note VR103 holes, one is not hooked up to anything.
- (6) Transmit on AM or FM and adjust the SWR/CAL knob for about 3 or 4 watts on a watt meter hooked up to a dummy load.
- (7) Put your meter on the radio to the SWR calibrate position and adjust VR103 until it reads high enough to calibrate the meter.

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Talkback is developed by enabling the speaker which is hooked up to the audio IC, alias the "modulator". The modulator will drive the speaker with audio so that you can hear how you sound over the air. This is a very nice feature for those who run echo. In most radios, the speaker ground lead is disconnected during transmit to prevent squeal or feedback. What we need to do in the 2510 is run a ground wire from the speaker to the mic plug to act as a switchable ground for the speaker during receive.

Remove the speaker side of the case and look at the back of the speaker, you will see the speaker wires going from the speaker to the PC board of the radio. They are marked on the speaker as plus (+) and (-). Remove the one marked minus (-) FROM THE PC BOARD. This will be your new switchable ground wire. Now locate the mic. jack in the front of the radio and find the two small chokes that have been added at the factory on the small PC board. These are on pins four and five and control the channel up and down buttons on the stock microphone. Remove the one on pin five at the pin. Insulate the end that is free with some heat shrinkable tubing. Now, you can take the speaker wire you have removed and solder the free end to pin five. Pin five now becomes the switchable ground pin.