

FREQUENCY MOD FOR JC PENNY, COLT, LAFAYETTE, HYGAIN, ETC.

NOTE: This modification works on the J.C. Penny 6241, Colt 480, 485, 1000, 1200, Lafayette SSB 140, HB120, Hygain VIII, V, and other similar chassis.

PARTS NEEDED:

Frequency Counter

Dummy Load (Secret CB's "Little Dummy" works great)

Several 20 - 30pF caps for padding

1 @ SPST switch (optional)

This modification allows you to work even or odd frequencies on AM or SSB. It allows, for example: Ch. 21 - 27.215, switch off. With switch on 27.210, drops .005KHz.

1. Go to test point #5 (off the emitter of Q44, and pick up the constant 9V source and run to a switch - put one in or use NB, PA, etc.
2. On other side of switch go to R14. After one end of the R14 resistor is removed from the 8.99 SSB volt source, attach a wire (careful, Q3 is easily damaged).
3. You are going to have to pad C21 on the bottom of the radio with a cap (some value between 20 - 60pF). Each radio is different. The Hygain V took 27pF.
4. With switch off, key mike on ch. 21, AM mode, and adjust frequency for ch. 21, 27.215 MHz, using CT-1 and CT-2.
5. Now throw switch. Frequency should go to 27.210. Some adjusting back and forth on CT1, CT2, CT3, CT4 will be needed. Be patient; it takes time.
6. If clarifier is unlocked it is a little easier; the spread is better.
7. Watch out to make sure you can tune in LSB on ch. 21.
8. The new 10-turn pot works great on the clarifier (available from Secret CB).
9. To unlock the clarifier, see Secret CB, Volume 3, on the Colt radios.