

CONVERSION TIPS FOR ALL SSB RADIOS

1. In some cases, since these CB sets are fixed pi networks, changing the fixed load capacitance to 50-100pF less, will improve loading and power output, if you run into problems.
2. Sometimes, mixers will not tune fully. It may be necessary to remove 1-2 turns on some mixer coils - 1 turn for mixers in the 30MHz range, and 2 turns for mixers under 20MHz.
3. AM SLIDER: Using our slider kit, a 10KC slide with AM sets can be achieved. Installing the series coil and capacitor in series with a fundamental set of crystals to ground, incremented channels can be achieved.
 1. Isolate ground buss of fundamental crystals in 8-16 MHz range. Series slider kit to ground and adjust coil for desired slide.
4. Never attempt a conversion without a schematic of your radio.
5. All synthesizer chassis are aligned as follows:
 - (a) Crystal oscillators of associated changed crystals are checked, trimmed if so designed in set.
 - (b) Mixer stages following the synthesizer circuits are aligned next. A frequency counter is helpful at this point. Output frequencies of mixer stages are listed on schematics.
 - (c) Following antenna circuit back from the relay to coils labelled 27 MHz, lead to receiver alignment.
 - (1) Use a modulated signal at mid-band
 - (2) Peak coils for maximum audio output and/or maximum "S" meter reading.
 - (3) In general, IF stages may be left alone.
 - (d) Transmitter circuits are traced back from the final amplifier transistor (usually a 2SC1307 or equiv.) and are peaked in reverse order for maximum output while in the AM mode.
 - (e) SSB exciter peaking is necessary in some sets, and this circuitry follows the balanced modulator.
6. In the SSB mode, ultimate power out is controlled by ALC control after tuning of driver and final stages.
7. Most needed equipment are a dummy load, watt meter of any kind and a frequency counter. A two-tone signal generator and scope for modulation monitoring are not a necessity, but are useful.
8. While receiver coils are usually peaked at mid-band, they may be peaked on any special desired frequency.