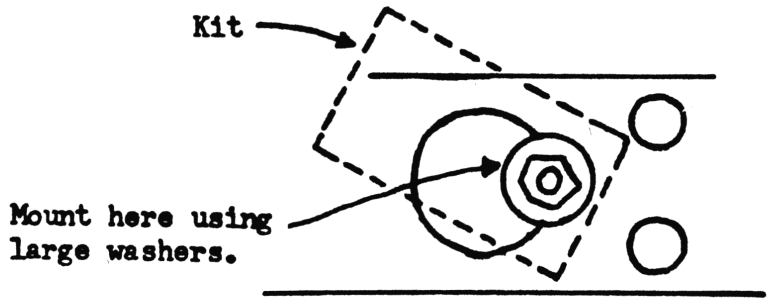
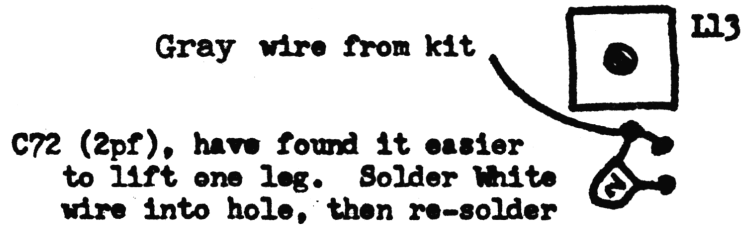
**Kit Installation...**

1. Kit will install on side of chassis next to PLL chip.
   Mount in the microphone hole per drawing below - you might have to to enlarge the key-way slightly to get enough bite for the washers. In this manner will only have to remove a small amount of metal from each case cover. DON'T MOUNT THE KIT YET....

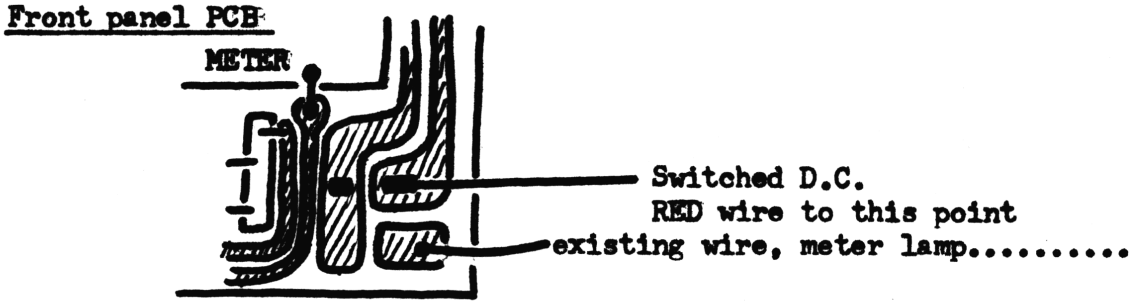



2. Kit wires go the following locations:

   Black - D.C. Ground (try hole to right of L14, is un-used and DC Gnd.)
   Gray - Solder to C72, side closest to L13 - see below:




   Red - Solder to switched DC input to unit, see below:




   Brown - 'wiper' of the clarifier Potentiometer, see below:

## Kit 106 - Cobra 146GTL (cont.)

3. 'Tack solder' all wires and check out kit before installing.

4. If when mounting the UP position is throwing in the Low Fo's, just switch crystals on the kit PCB.

5. SPECIAL NOTE: test unit S/N 43003199 required a 'Super Diode' in the VCO circuit for full frequency coverage and stability. This is D25, located to left of L14.

6. Permanently install kit, and shorten wiring after checking out operation.

7. Using L13 and L14 will get the frequencies to 'come up', L14 has the most effect. Then tune L15, L40, L39, L38, L37, and L28 for best overall LINEAR RF OUTPUT Power in SSB mode.

8. Additional adjustments for this unit:
VR1-S Mtr, VR2-Sq Rng, VR3-LSB Fo Adj. (disabled if slide is installed), VR4-Carrier Balance, VR5-AMC, VR6-ALC, VR7-Tx Mtr, VR8-Final Bias (100ma), VR9-Driver Bias (10ma), VR10-AM Power.

## Kit-106, Frequency Chart

| Down | | Middle | | Up | |
|---|---|---|---|---|---|
| Channel | MHz Frequency | Channel | MHz Frequency | Channel | MHz Frequency |
| 1 | 26.515 | 1 | 26.965 | 1 | 27.415 |
| 2 | 26.525 | 2 | 26.975 | 2 | 27.425 |
| 3 | 26.535 | 3 | 26.985 | 3 | 27.435 |
| 4 | 26.555 | 4 | 27.005 | 4 | 27.455 |
| 5 | 26.565 | 5 | 27.015 | 5 | 27.465 |
| 6 | 26.575 | 6 | 27.025 | 6 | 27.475 |
| 7 | 26.585 | 7 | 27.035 | 7 | 27.485 |
| 8 | 26.605 | 8 | 27.055 | 8 | 27.505 |
| 9 | 26.615 | 9 | 27.065 | 9 | 27.515 |
| 10 | 26.625 | 10 | 27.075 | 10 | 27.525 |
| 11 | 26.635 | 11 | 27.085 | 11 | 27.535 |
| 12 | 26.655 | 12 | 27.105 | 12 | 27.555 |
| 13 | 26.665 | 13 | 27.115 | 13 | 27.565 |
| 14 | 26.675 | 14 | 27.125 | 14 | 27.575 |
| 15 | 26.685 | 15 | 27.135 | 15 | 27.585 |
| 16 | 26.705 | 16 | 27.155 | 16 | 27.605 |
| 17 | 26.715 | 17 | 27.165 | 17 | 27.615 |
| 18 | 26.725 | 18 | 27.175 | 18 | 27.625 |
| 19 | 26.735 | 19 | 27.185 | 19 | 27.635 |
| 20 | 26.755 | 20 | 27.205 | 20 | 27.655 |
| 21 | 26.765 | 21 | 27.215 | 21 | 27.665 |
| 22 | 26.775 | 22 | 27.225 | 22 | 27.675 |
| 23 | 26.805 | 23 | 27.255 | 23 | 27.705 |
| 24 | 26.785 | 24 | 27.235 | 24 | 27.685 |
| 25 | 26.795 | 25 | 27.245 | 25 | 27.695 |
| 26 | 26.815 | 26 | 27.265 | 26 | 27.715 |
| 27 | 26.825 | 27 | 27.275 | 27 | 27.725 |
| 28 | 26.835 | 28 | 27.285 | 28 | 27.735 |
| 29 | 26.845 | 29 | 27.295 | 29 | 27.745 |
| 30 | 26.855 | 30 | 27.305 | 30 | 27.755 |
| 31 | 26.865 | 31 | 27.315 | 31 | 27.765 |
| 32 | 26.875 | 32 | 27.325 | 32 | 27.775 |
| 33 | 26.885 | 33 | 27.335 | 33 | 27.785 |
| 34 | 26.895 | 34 | 27.345 | 34 | 27.795 |
| 35 | 26.905 | 35 | 27.355 | 35 | 27.805 |
| 36 | 26.915 | 36 | 27.365 | 36 | 27.815 |
| 37 | 26.925 | 37 | 27.375 | 37 | 27.825 |
| 38 | 26.935 | 38 | 27.385 | 38 | 27.835 |
| 39 | 26.945 | 39 | 27.395 | 39 | 27.845 |
| 40 | 26.955 | 40 | 27.405 | 40 | 27.855 |