

COBRA 25GTL AND PRESIDENT AR44 LO/Hi Fo MOD

• *BILL GRASSA*

THIS MOD GIVES BOTH HI AND LOW FREQUENCIES BUT WILL CAUSE THE UNIT TO VARY +/- 1.5kc's AS THE FREQUENCIES GO UP OR DOWN. KEEP ALL WIRES AS SHORT AS POSSIBLE!

APM

1. REMOVE UPPER AND LOWER COVERS.
 2. REMOVE THE 10.240 MHz CRYSTAL LOCATED BY THE PLL-IC.
 3. REMOVE THE WIRES FROM THE CHANNEL 9 SWITCH AND WIRE AS FOLLOWS:
A. SOLDER BLACK AND BROWN WIRES TOGETHER AND TAPE.
B. CUT THE ENDS OF THE PINK AND BLUE WIRE AND INSULATE, SO THEY WILL NOT SHORT TOGETHER.
 4. REMOVE ALL WIRES FROM THE BRITE/DIM SWITCH.
 5. REFER TO FIGURE 1. SOLDER THE RED AND ORANGE WIRES TOGETHER AND TAPE.
 6. SOLDER THE RED AND BLACK WIRES TOGETHER AND TAPE.
 7. CUT THE ENDS OF ALL OTHER WIRES REMOVED AND INSULATE.
 8. REFER TO FIGURE 2. SOLDER TWO WIRES IN THE HOLES LEFT BY THE 10.240 CRYSTAL. SOLDER THE OTHER ENDS TO THE TWO CENTER POST ON THE CHANNEL 9 SWITCH.
 9. REFER TO FIGURE 3. SOLDER TWO "SHORT" WIRES FROM THE END POST OF THE CHANNEL 9 SWITCH TO THE TWO CENTER POSTS OF THE OF THE BRITE/DIM SWITCH.
- NOTE: DO NOT CROSS THE WIRES*
10. SOLDER IN THE CRYSTALS AND TRIMMERS AS ILLUSTRATED IN FIGURE 4.

CRYSTAL FREQUENCIES + + + TRIMMER1

A = 10.140 + + + + + + + + + + + 6.35pf

B = 10.240 (AVAILABLE FROM SELMAN ENTERPRISES)

C = 10.440

11. POWER UP THE RADIO AND FREQUENCY COUNTER.
12. WITH THE CHANNEL 9 AND BRITE/DIM SWITCHES IN, CHANNEL AND CHANNEL 14 SELECTED, KEY THE RADIO AND ADJUST TRIMMER "B" FOR 26.875MHz USING A NON-CONDUCTIVE ALIGNMENT TOOL.
13. PUSH THE BRITE/DIM SWITCH OUT, AND ADJUST TRIMMER "C" FOR 27.675MHz.
14. REPLACE THE COVERS.

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*WITH CHANNEL 9 SWITCH OUT, GIVES REGULAR 40 CHANNELS.

*WITH CHANNEL 9 SWITCH IN, ALLOWS SELECTION OF EXTRA CHANNELS.

*WITH BRITE/DIM SWITCH IN, GIVES LOWER FREQUENCIES.

*WITH BRITE/DIM SWITCH IN, GIVES UPPER FREQUENCIES.

****REFER TO TABLE 1 FOR FREQUENCIES OF EXTRAS.

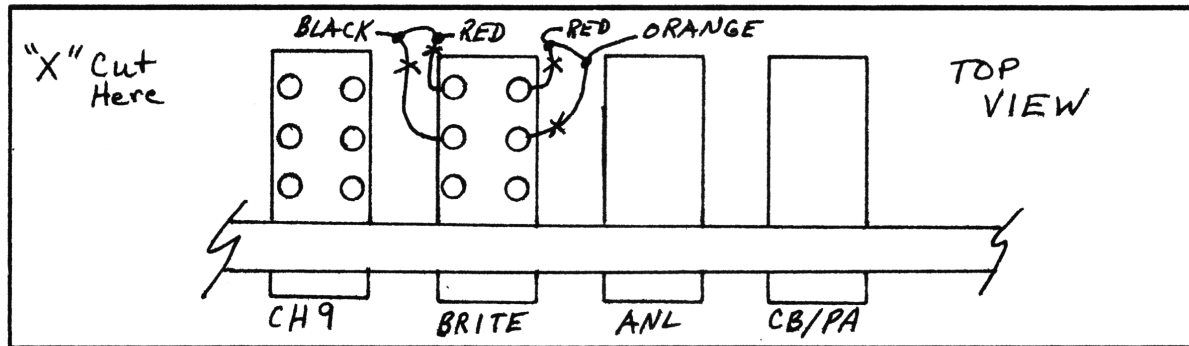


FIGURE 1. AR44/25GTL

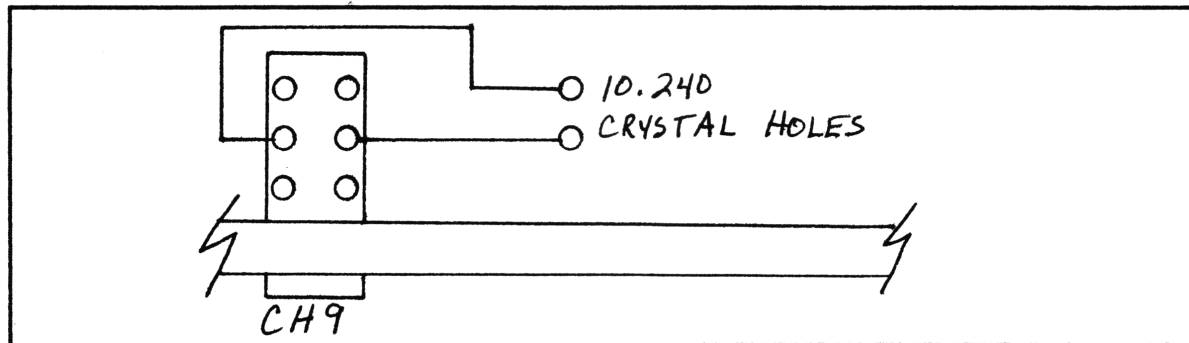


FIGURE 2. AR44/25GTL

TABLE 1. AR44/COBRA 25GTL Fo CHART

LOWERS	UPPERS		
1-26.715	27.515	14-26.875	27.675
2-26.725	27.525	15-26.885	27.685
3-26.735	27.535	16-26.905	27.705
4-26.755	27.555	17-26.915	27.715
5-26.765	27.565	18-26.925	27.725
6-26.775	27.575	19-26.935	27.735
7-26.785	27.585	20-26.955	27.755
8-26.805	27.605	21-26.965	27.765

9-26.815	27.615	22-WITHIN	27.775
10-26.825	27.625	23-REGULAR	VCO
11-26.835	27.635	24-40 CH.S	QUITS
12-26.855	27.655	UP TO 40	
13-26.865	27.665		

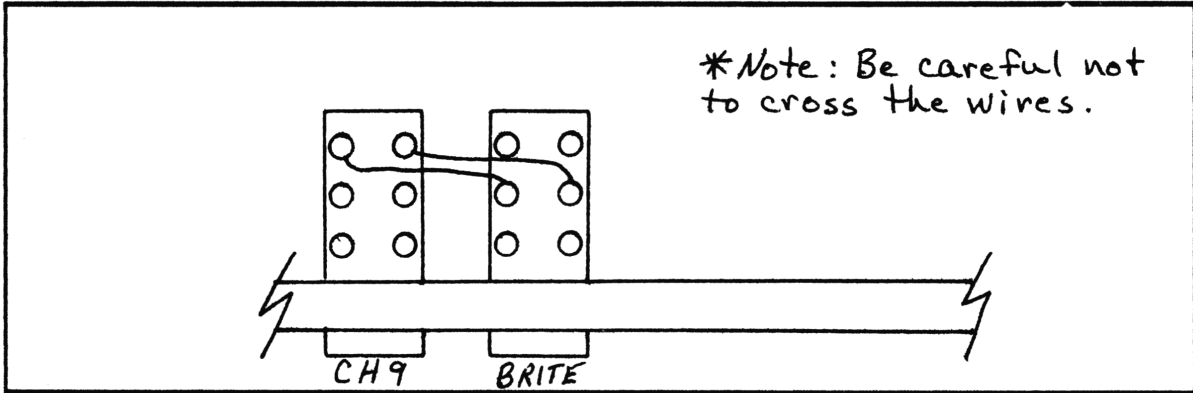


FIGURE 3. AR44/25GTL

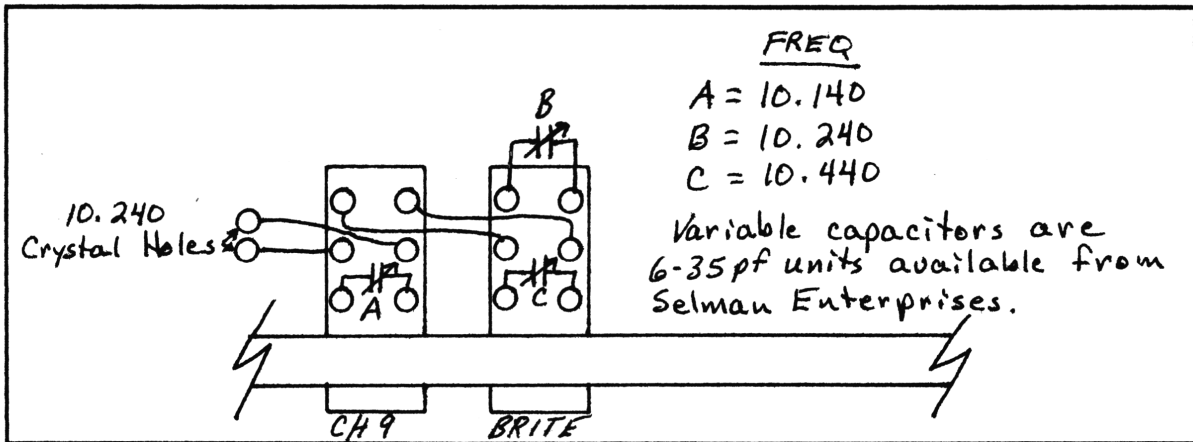


FIGURE 4. AR44/25GTL

23 CHANNEL RADIO CONVERSION

. KENNETH HOLYFIELD

THIS CONVERSION IS FOR 23 CHANNEL RADIOS USING 23MHz CRYSTALS WITH 11.272MHz TRANSMIT CRYSTAL AND 11.730MHz RECEIVE CRYSTAL.

THE CRYSTALS REQUIRED FOR 26.865MHz 26.955MHz ARE 11.575MHz TRANSMIT AND 12.030MHz FOR RECEIVE.

FOR CHANNELS 24 52, USE 11.000MHz TRANSMIT AND 11.455MHz RECEIVE.

YOU WILL NEED A '6' POSITION 2 POLE ROTARY SWITCH. (SECRET CB ITEM # 95.)