

MODIFICATION SHEET "A" (COBRA 138XLR/COBRA 139XLR)
(PRESIDENT WASHINGTON/GRANT)
(ROBYN GT-440D)

- (1) Shifting of transmitter frequency, by use of the CLARIFIER/VOICE LOCK control.

The following steps will allow the transmitter frequency to be shifted 1.5 KHz above and below the standard operating frequency:

- (a) Eliminate D-30 (1S2473).
(b) Remove R-119 (100 ohm) from the PC board and place it between the cathode side of D-32 (WZ061) and the conjunction position of R-166 and R-169 on the bottom side of the PC board.
(c) By making a short circuit across R-166, the channel frequency will be shifted 1.5 KHz above and 4.5 KHz below.

(d) ~~cut D30~~ cut R 117 + cut D32 ANODE SIDE

- (2) The adding of 32 extra channels.

- (a) Locate the extra switch (transfer circuit) and place it in the on position.
(b) Take a 1N60 diode and place it between the extra switch and pin #21 on IC7 (UPK858C), so that the cathode side of the diode is facing toward the switch.
(c) Cut the island of pin #19, of IC7, and place the register 4.7K ohm between the two islands which were seperated.
(d) Connect a lead wire between the empty position on the switch and the seperated island from pin #19.
(e) Realign the transmitter so that there is a minimum differance of RF output power between channels #1 and #40.
(f) Make the same adjustment for receiver sensitivity.
(g) Check the P.L.L. circuit also.
(h) The following are the frequencies of the new channels:

<u>Channel</u>	<u>Freq-(MHz)</u>	<u>Channel</u>	<u>Freq-(MHz)</u>	<u>Ch.</u>	<u>(MHz)</u>
# 8	27.455	# 23	27.655	38	27.785
9	465	24	635	39	795
10	475	25	645	40	805
11	485	26	665		
12	505	27	675		
13	515	28	685		
14	525	29	695		
15	535	30	705		
16	555	31	715		
17	565	32	725		
18	575	33	735		
19	585	34	745		
20	605	35	755		
21	615	36	765		
22	625	37	775		

NO GOOD