

3. CONNECT THE OTHER SIDE OF THE SPST SWITCH TO GROUND.
4. CUT THE TRACE FROM PIN 16 AND BRIDGE WITH A 4.7k RESISTOR.
5. CONNECT A WIRE FROM PIN 16 TO ANOTHER SPST SWITCH.
6. CONNECT THE UNUSED SIDE OF THIS SWITCH TO GROUND ALSO.

THE SWITCH CONNECTED IN STEP 5 YIELDS A 10kc DROP! THE KIT, AS INSTALLED, YIELDS 26.855-28.045MHZ. BY USING THIS METHOD, YIELDS 26.815-28.085MHZ.\*

*\*SEE EDITORS NOTE ON PREVIOUS PAGE*

## HINTS/KINKS/UPDATES

### COLTBLACKSHADOW

I HAVE FOUND THAT IN THE COLT BLACK SHADOW, COLT 485 MOBILE, AND ALL SIMILIAR CIRCUITS, THIS WILL INCREASE THE AUTOMATIC NOISE LIMITING AND NOISE BLANKING 60-70% AND ALSO HELP BLEEDOVER CONSIDERABLY!!

DIRECTIONS: PEAK RECEIVER TO MAXIMUM, ACCORDING TO APPLICABLE SAMS, WITH THE NOISE BLANKER "OFF". THEN CHANGE C128, A .0047uf TO A .02uf. NE.T, CHANGE C133, A 220pf TO A .01uf. NOISE BLANKER SWITCH MAY NOT HAVE ANY EFFECT, BUT IT'S DARN WELL WORTH IT!.....STEVEN L. PRINCE

### COBRA 148GTL-DX RECIEVER

REF: SECRET CB VOLUME 19, PAGE 37; "148GTL-DX (LATE) 'PRE-AMP/WIDE-BAND MODIFICATION", STEPS 3 & 4.

I'VE FOUND THAT OCCASIONALLY THIS MOD KICKS THE RECEIVER JUST ATAD TOO HARD, RESULTING IN RECEIVER OSCILLATION. IT'S HAPPENED TWICE, AND BOTH WERE RUSH JOBS SO I COULDN'T TAKE THE TIME TO PLAY WITH THEM THAT I WOULD HAVE LIKED. UNFORTUNATELY, MY SUPERSTAR 360FM "GUINEA PIG" DOESN'T HAVE THIS PROBLEM, SO I HAVEN'T FOUND A TRIED AND TRUE SOLUTION.

IN THE ABOVE TWO CASES, I REPLACED R75 WITH A 470ohm 1/4w 5% (IN THE ORIGINAL R75 LOCATION), WHICH SEEMED TO PROVIDE SOME ADDITIONAL GAIN WITHOUT OSCILLATING - BUT I WON'T EVEN SWEAR TO THIS MOD MAKING TOO GREAT OF A DIFFERENCE OR EVEN WORKING IN EVERY PB-010 BOARD.

ONE FINAL NOTE ON THE PB-010: IF TALK-BACK HAS BEEN ADDED, BE SURE IT'S OFF BEFORE PUTTING ON THE TONE GENERATOR TO ALIGN THE TRANSMITTER, OTHERWISE C167 AND C172 WILL GO UP IN SMOKE. THEY'RE ONLY 10WVDC PARTS!! RECOMMEND REPLACING THEM WITH 16WVDC UNITS, THEN SMOKE IS NO LONGER A PROBLEM.....ART

### SUPERSTAR 3600 W/HI BAND SQUEAL PROBLEM

## HINTS/KINKS/UPDATES

CHECKED EVERYTHING AS ON PAGE 23 OF SECRET CB VOLUME 22. FOUND THAT THE CHOKE FROM GROUND PIN OF MIC PLUG TO PCB GROUND WAS BROKEN AT PCB! REMOVED BROKEN PIECE AND REPLACED. TIP: BE SURE TO SLEEVE BARE LEADS OF CHOKE SO AS NOT TO GROUND AGAINST ANY OTHER COMPONENTS. LENGTHEN ONE LEAD A BIT TO RELIEVE ANY STRESS.

THIS MODEL HAS SAME IDENTICAL CHASSIS AS THE SUPER STAR 3900, MINUS THE EXTRA COMPONENTS IN THE CLARIFIER CIRCUITRY. ALSO IS IDENTICAL IN FEATURES TO THE SS3600 LOW BAND MODEL; ALIGN AS PER SS3600 LOW BAND, BUT ONE BAND HIGHER.

### COBRA-40X AUDIO

INTERMITTANT RECEIVE AUDIO.

CHECK FOR COLD SOLDER JOINTS, CRACKS, AND WIRES NOT PUSHED ALL THE WAY INTO THE BOARD.

· BROWN WIRE OPPOSITE PLL CHIP SIDE OF RADIO LABELED JJ-D201, CONNECTS TO JJ-D301.

· BROWN WIRE TO R-134 (ON/OFF-CB/PA SWITCH)

· GREEN WIRE T.M. TO T.M.

· GREEN WIRE B.L. TO B.L.

· WHITE WIRE Q.Q. TO Q.Q.

· YELLOW WIRE TO P.A. AT REAR OF BOARD

JIMMY BOOTH

· *REMEMBER, COURTESY COUNTS*

## **COBRA 2000GTL SYNTHESIZER ALIGNMENT**

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
INPUT OF FREQ CNTR TO TP13	CH19		CHECK FOR 10.240MHz
<b>(IC1 PIN 8)</b>			
INPUT OF SCOPE TO TP10	CH19 AM	L21	ADJUST FOR MAX RF (3-4vPP TYPICAL)
INPUT OF DC MTR TO TP9	CH40 AM	L19	ADJUST FOR 2.70 VOLTS, 1.95 ON CH 1
INPUT OF SCOPE TO TP1	CH19 AM	L20	ADJUST FOR MAX RF (190mvPP TYPICAL)
INPUT OF FREQ CNTR TO TP1	CH1 AM	L23	ADJUST FOR 34.7650 MHz, /20Hz
INPUT OF FREQ CNTR TO TP1	CH1 USB	L59	ADJUST FOR 34.7665 MHz, /20Hz
INPUT OF FREQ CNTR TO TP1	CH1 LSB	L22	ADJUST FOR 34.7635 MHz, /20Hz