2.REMOVE THE "GRAY" WIRE COMING FROM THE BAND SWITCH, AT THE PC BOARD. IT IS LABELED EITHER "MX(3)" OR "HI" ON THE BOARD

3.CONNECT THIS WIRE TO WIRE "#1" ON THE NEW SWITCH.

4.CONNECT WIRE "#2" TO THE HOLE LABELED "MX(3)" OR "HI", THAT WAS VACATED BY THE GRAY WIRE IN STEP 2.

5.CONNECT WIRE "#3" TO PIN 2 OF IC7.

6.CONNECT WIRE "#4" TO PIN 15 OF IC6.

7.CONNECT WIRE "#5" TO PIN 4 OF IC6.

NOTE: PAY VERY CLOSE ATTENTION TO THE LAYOUT OF IC6 & 7'S PINS. THEY ARE OPPOSITE OF ONE ANOTHER AND IT IS VERY EASY TO GET CONFUSED.

EXTENDED RANGES FOR THE STALKER IX-FM

- *LESCOMM*

THIS CONVERSION PROVIDES A 10KC SWITCH WHICH GOES UP 10KCS ON ALL 40 CHANNELS WHEN THE RANGE SWITCH IS IN THE "LO" RANGE POSITION, AND GOES DOWN 10KCS WHEN THE RANGE SWITCH IS IN THE "HI" POSITION. THE EXTENDED RANGE SWITCH WE WILL ADD WILL NOT EFFECT THE OPERATION OF THE 10KC SWITCH.

THIS IS HOW THE EXTENDED FREQUENCIES WILL COME OUT WITH THIS MOD:

LO/LO	HI/HI	LO/LO	HI/HI
1-28.085	27.575	21-27.055	27.825
2-26.815	27.585	22-27.065	27.835
3-26.825	27.595	23-27.095	27.865
4-26.845	27.615	24-27.075	27.845
5-26.855	27.625	25-27.085	27.855
6-26.865	27.635	26-27.105	27.875
7-26.875	27.645	27-27.115	27.885
8-26.895	27.665	28-27.125	27.895
9-26.905	27.675	29-27.135	27.905
10-26.915	27.685	30-27.145	27.915
11-26.925	27.695	31-27.155	27.925
12-26.945	27.715	32-27.165	27.935

13-26.955	27.725	33-27.175	27.945
14-26.965	27.735	34-27.185	27.955
15-26.975	27.745	35-27.195	27.965
16-26.995	27.765	36-27.205	27.975
17-27.005	27.775	37-27.215	27.985
18-27.015	27.785	38-27.225	27.995
19-27.025	27.795	39-27.235	28.005
20-27.045	27.815	40-27.245	28.015

NEXT, DO THE CLARIFIER MOD SHOWN ON PAGE 50 OF VOLUME 15.

THE FOLLOWING PARTS ARE REQUIRED FOR THE MODIFICATIONS OUTLINED HERE:

PARTS REQUIRED FOR EXTENDED FREQUENCIES:

-3 POSITION/1 POLE ROTARY SWITCH. (OBTAIN AN OLD AM/USB/LSB MODE SWITCH FROM AN OLD/JUNK SSB RADIO, OR YOU CAN PURCHASE THE UNIDEN HR2510 MODE SWITCH IF YOU PREFER. THE MODE SWITCH WILL FIT IN AN EXISTING CONTROLS HOLE AND YOU CAN USE THE ORIGINAL KNOB.

-FOUR 10K OHM 1/4 WATT RESISTORS

-ONE 2.7K OHM 1/4 WATT RESISTOR

-TWO 1N4148 DIODES

-ONE 2N3904 TRANSISTOR

-ONE DPDT SWITCH (OR YOU CAN USE AN EXISTING SWITCH)

ONTO THECONVERSION

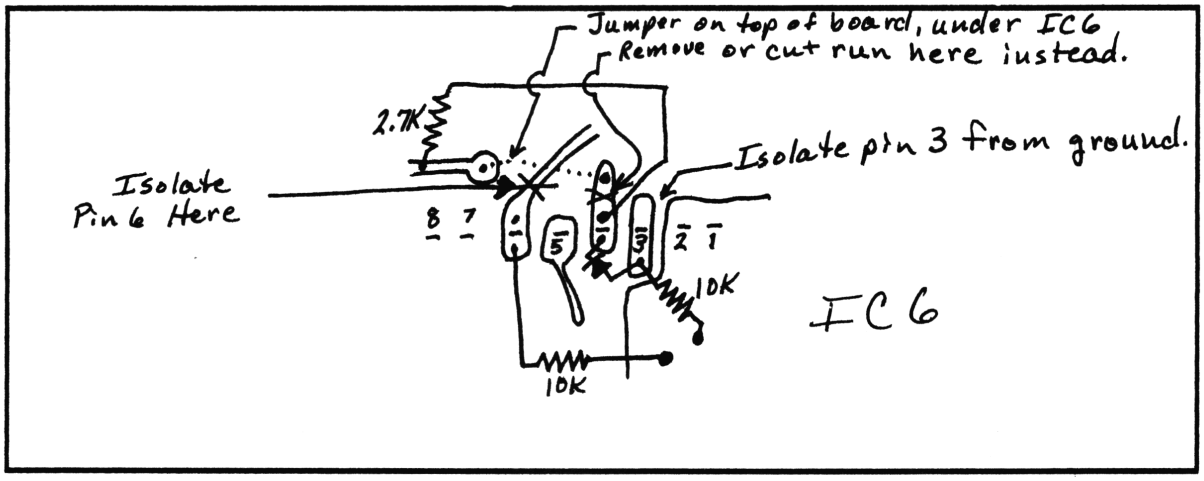

FIGURE 1. STALKER IX/FM

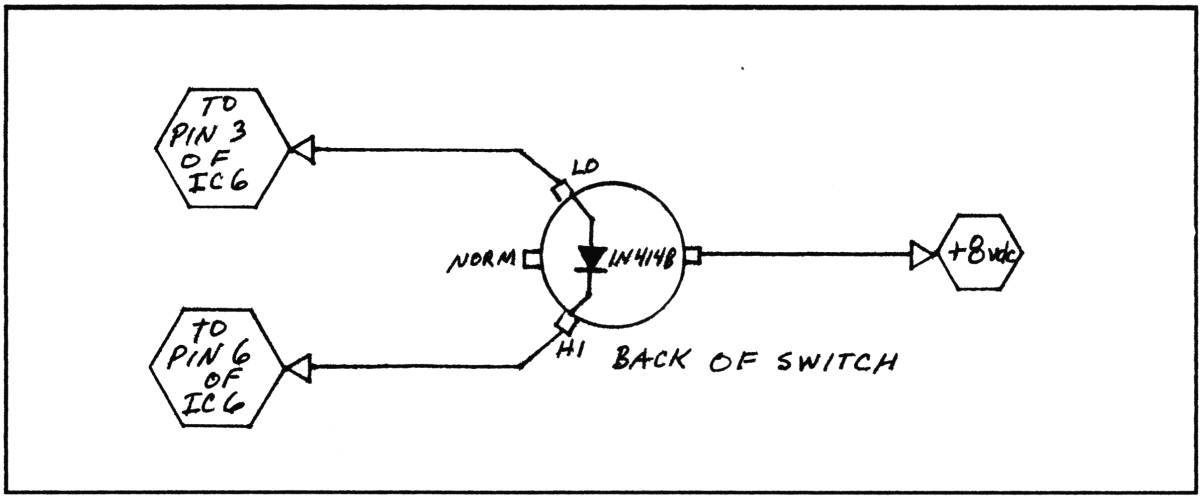

FIGURE 2. STALKER IX/FM

REFER TO FIGURE ONE

1.ISOLATE PIN 6 OF IC5.

2.ISOLATE PIN 6 OF IC6.

3.ISOLATE PIN 4 OF IC6. (I WOULD ADVISE REMOVING IC6, AND THEN REMOVE THE JUMPER CONNECTING PIN 4 TO THE HI/LO VOLTAGE BUSS. BUT IF YOU'RE IN A HURRY, YOU CAN CUT THE RUN AT PIN 4. IF YOU DO REMOVE IC6, BE AWARE THAT IT IS CMOS AND CAN BE DAMAGED BY STATIC DISCHARGES. FORTUNATELY THOUGH, REPLACEMENTS ARE READILY AVAILABLE.

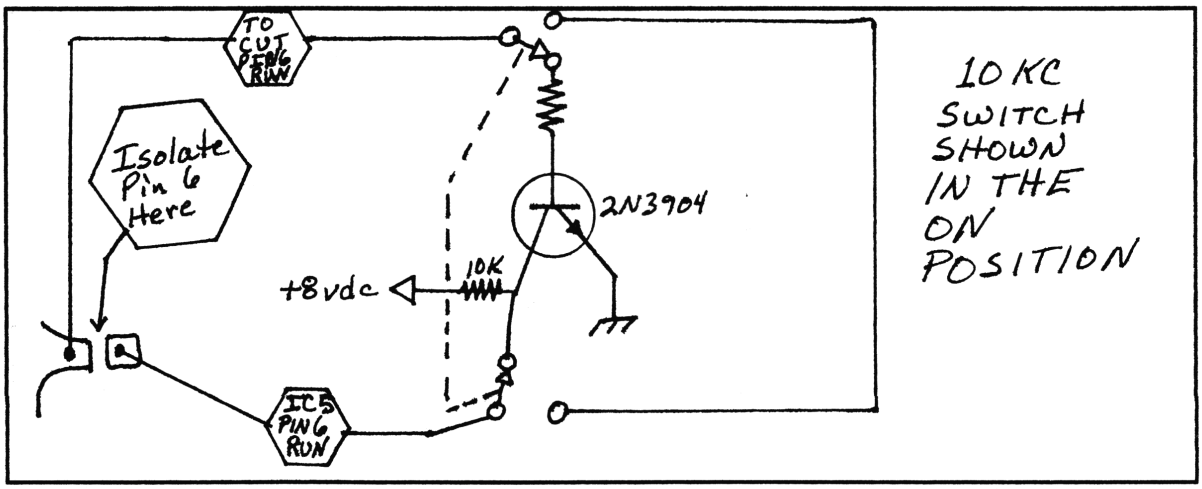

FIGURE 3. STALKER IX/FM

4.ISOLATE PIN 3 OF IC6, BUT LEAVE YOURSELF ENOUGH OF THE COPPER PAD TO SOLDER TO.

5.SOLDER A 10K OHM RESISTOR FROM GROUND TO PIN 3 AND ONE TO PIN 6 OF IC6.

6.SOLDER A 2.7K OHM RESISTOR FROM PIN 4 OF IC6, TO THE BUSS YOU ISOLATED IT FROM IN STEP 3.

7.SOLDER THE CATHODE OF A 1N4148 DIODE TO PIN 4 OF IC6 AND THE ANODE TO PIN 3 OF IC6.

8.WIRE AND CONNECT THE SWITCH AS SHOWN IN FIG. TWO.

9.NOW, WIRE AND CONNECT THE DPDT SWITCH AND TRANSISTOR AS SHOWN IN FIG. 3.(THIS IS THE 10KC SWITCH.)

YOU SHOULD NOW BE READY TO TRY IT OUT. ON ALL THE UNITS SO FAR CONVERTED, NO ADJUSTMENT OF THE VCO WAS REQUIRED. POWER WAS STEADY FROM TOP TO BOTTOM. EXCELLENT RECEIVER! IN FACT, ACCORDING TO MY B&K, BETTER THAN THE DUAL CONVERSION 8719 CHASSIS, WHICH SAYS ALOT FOR THIS RADIO. ON ADDING THE MODE SWITCH, I REMOVED THE RF GAIN CONTROL AND MOUNTED IT IN THAT HOLE. ALL YOU NEED TO DO IS GROUND THE CENTER WIRE THAT GOES TO THE CONTROLS CENTER LUG (THE WIPER). IN MOST RADIOS, IT IS A BROWN WIRE. BUT, DID HAVE A COUPLE WITH GREEN WIRES.

IMPROVED 02A SSB CLARIFIER MODIFICATION

- *LESCOMM*

THIS MOD WILL ALLOW A LARGE AMOUNT OF SLIDE WITHOUT POWER DROP-OFF AT THE EXTREME ENDS OF THE SLIDE WHICH IS COMMON IN 02A SSB RADIOS.IT WILL ALSO ALLOW YOU TO ADJUST AM,USB AND LSB TOGETHER ON CENTER SLOT.

REFER TO PAGE 45 FOR SCHEMATIC

1.REMOVE D3 AND SAVE. REMOVE C20,C21,C18,C7,R13,R24,R25,D4 AND D5.

2.CONNECT THE CATHODE OF D3 TO THE JUNCTION OF CT1 & CT2.

3.FOLLOW THE CENTER WIRE OF THE CLARIFIER TO THE PC BOARD AND REMOVE IT AT THIS POINT. CONNECT IT TO THE JUNCTION OF D3,CT1 & CT2, THROUGH A 10K OHM RESISTOR.

4.CONNECT A 3.3uh CHOKE BETWEEN THE ANODE OF D3 AND GROUND.

5.OPEN THE RUN BETWEEN X1 AND THE CT1/CT2/D3 JUNCTION.

6.BRIDGE THE OPENING WITH A .02uf "NPO" DISC CAPACITOR.

7.CONNECT A .001uf NPO DISC CAPACITOR FROM THE EMITTER OF Q3 TO PIN 4 OF IC2. DO THIS ON THE TOP OF THE PC BOARD TO PREVENT THE BOTTOM COVER FROM AFFECTING IT.

8.REPLACE C17 WITH A 47pf NPO DISC CAPACITOR.

NOTE: THE REASON WE ARE USING NPO DISC CAPACITORS IS TO PREVENT FREQUENCY DRIFT AS MUCH AS POSSIBLE.

WHAT WE HAVE DONE IS CONVERTED Q3 INTO AN AMPLIFIER CIRCUIT VICE AN OSCILLATOR CIRCUIT. X1 WILL OSCILLATE ON ITS OWN WITHOUT Q3 & T3. AND SINCE OUR OUTPUT OF IC2 IS TUNED FROM 37.660 TO 38.100 BY T1 & T2, WE WILL BE USING