

STALKER IX (FM EXPORT ONLY MODEL)

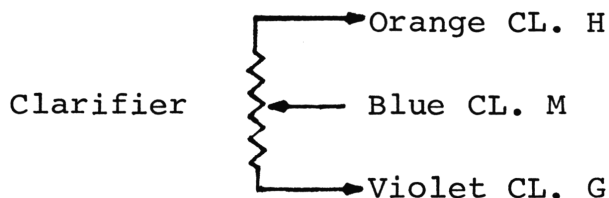
This is one whale of a radio! Better ears than the Grant, plenty of talk power, broadband design with good filtering and ACR (adjacent channel rejection). A very strong and versatile unit, one you're sure to enjoy if you can find one. (Looks like all the really neat stuff is for export only!) If you haven't gotten into "FM" yet, be sure to watch for SECRET CB VOLUME 16's FM conversions on particular units. The STALKER IX chassis is similar to 146GTL except for PLL (MB8719 and two full adders), and addition of FM. No schematic available at this time.

TUNE-UP:

VR11 AM Power (Adjust for 7.5W dead key)
VR5 AMC
VR7 ALC (Adjust for maximum)
VR4 Bal. Mod.
VR3 FM Dev.
VR1 S Meter
VR9 Final Bias
VR10 Driver Bias
L17 VCO Coil

Peak L30 for Max. RF.

CLARIFIER MODIFICATION:



1. Clip D33
2. Unsolder ORANGE wire from PCB point CL. H. Resolder to Cathode of D44.
3. Unsolder and remove R231 (BLUE-GRAY-RED). Clean out holes and install a solid wire jumper in its place (trace VIOLET wire to board to locate resistor)

* This gives 27.34192 to 27.34740.

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STALKER IX continued:

SLIDER range in excess of 50KC is possible using the SUPER DIODE/SUPER SLIDE combination. A SUPER DIODE alone will give 6KC down and 12KC up. The amount of slide depends on the B+ to the clarifier and the value of R231 which can be altered to your particular specification.

ADDING CHANNELS FOR 26.815 to 28.085 COVERAGE:

In this conversion we will be adding frequencies from 26.815 to 28.085. We will change out the NB/ANL switch to a 3 position switch to eliminate adding any other switch..

1. Unsolder BLUE and YELLOW wires from the NB/ANL switch and remove wires completely.
2. Unsolder PINK wire from switch and PC board and remove completely. NOTE where PINK wire goes on PC board, labeled RB.
3. Unsolder ORANGE wire from switch. Resolder this end to PC board @ RB where PINK wire was.
4. Remove the front panel face plate. (4 screws and all knobs)
5. Remove the 2 screws that hold the NB/ANL switch in place.
6. Remove the switch.
7. Obtain a 3 position slide switch (Secret CB Item #145.)
8. Re-drill the 2 screw holes to accommodate the thicker screws necessary for mounting the new switch.
9. File out the top and bottom of the front panel metal as required for the 3 position switch (the face plate may also have to be cut a little, use an Xacto knife on the bottom inside.)
10. Install the new switch, make sure the screws are not too long or they will prevent the switch from sliding up and down.

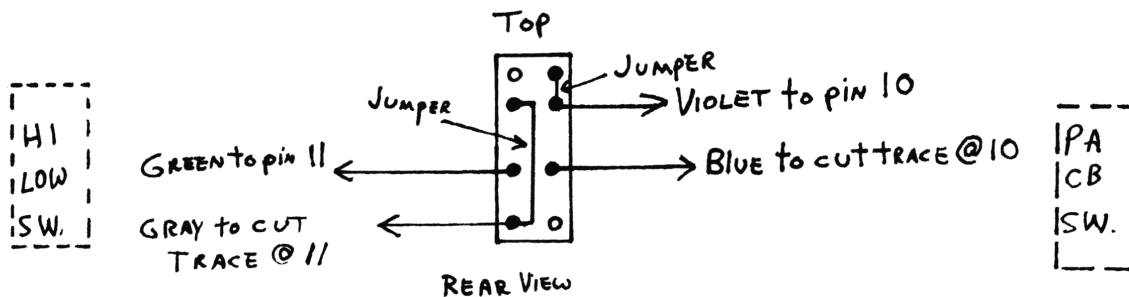


FIG. 1

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STALKER IX Continued:

11. Install 2 wire jumpers as shown in Fig. 1.
12. Make a cut on the trace of pin 10 of the 8719 chip as shown in Fig. 2.
13. Hook up VIOLET and BLUE wires to the one half of the switch and to pin 10 as shown in Fig. 1 & 2.
14. Make a cut on the trace to pin 11 of the 8719 chip.
15. Hook up GREEN and GRAY wires to the other half of the switch and to pin 11 as shown in Fig. 1 & 2.

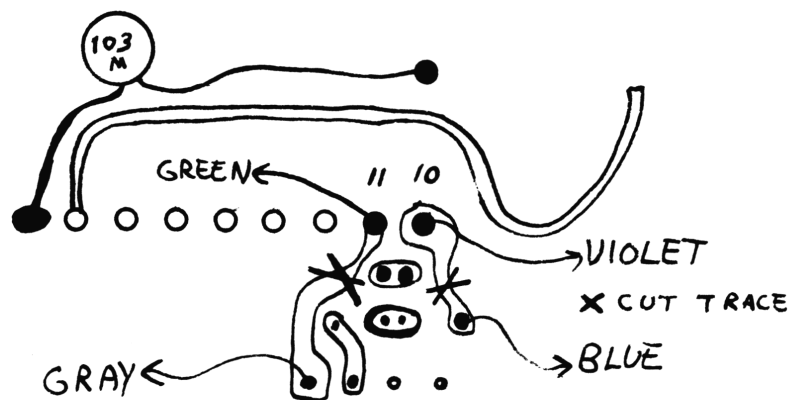


FIG. 2

The 15.4825 crystal can be changed for additional high or low channels.

IF a 15.0325 crystal is installed in its place, ch.1-40 will be on the 41-85 range and lows to 26.515 and highs to 27.635 will result.

For special frequency ranges, use this formula to calculate crystal needed:

EXAMPLE:	Ch. 1	26.96500
	Stock Xtal	<u>-15.48250</u>
		11.4825

Now if we want channel 1 to be 26.515 what crystal do we need?

26.5150	Freq. desired on ch. 1
<u>-11.4825</u>	Ch. 1 VCO
15.0325	Crystal needed

If you want to switch the two crystals use a DPDT switch mounted as close to the socket as possible.

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STALKER IX Continued:

FREQUENCY CHART:

Following is a frequency listing of the various switch positions:
 The first switch listed is the stock HI-LOW switch. The second
 switch listed is our new switch labeled UP, MID, DOWN.

LO - DOWN Regular 1-40 channels

LO - MID Also regular 1-40 channels

<u>LO - UP</u>	
1.	28
2.	29
3.	30
4.	32
5.	33
6.	34
7.	35
8.	37
9.	38
10.	39
11.	40
12.	42
13.	43
14.	44
15-40 Normal	

<u>HI - UP</u>					
1.	41 (27. <u>415</u>)	16.	92	31.	108
2.	42	17.	93	32.	77
3.	43	18.	94	33.	78
4.	77	19.	95	34.	79
5.	78	20.	97	35.	80
6.	79	21.	98	36.	81
7.	80	22.	99	37.	82
8.	82	23.	102 (28. <u>025</u>)	38.	83
9.	83	24.	100	39.	84
10.	84	25.	101	40.	85
11.	85	26.	103		
12.	87	27.	104		
13.	88	28.	105		
14.	89	29.	106		
15.	90	30.	107		

<u>HI - MID</u>							
1.	41	11.	53	21.	66	31.	76
2.	42	12.	55	22.	67	32.	77
3.	43	13.	56	23.	70	33.	78
4.	45	14.	57	24.	68	34.	79
5.	46	15.	58	25.	69	35.	80
6.	47	16.	60	26.	71	36.	81
7.	48	17.	61	27.	72	37.	82
8.	50	18.	62	28.	73	38.	83
9.	51	19.	63	29.	74	39.	84
10.	52	20.	65	30.	75	40.	85

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STALKER IX Continued:

FREQUENCY CHART Continued:

<u>HI-DOWN</u>					
1.	41 (27.415	16.	1	31.	14
2.	42	17.	2	32.	15
3.	43	18.	3	33.	27.145
4.	26.815	19.	26.995	34.	16
5.	26.825	20.	5	35.	17
6.	26.835	21.	6	36.	18
7.	26.845	22.	7	37.	19
8.	26.865	23.	9	38.	27.195
9.	26.875	24.	27.045	39.	20
10.	26.885	25.	8	40.	21
11.	26.895	26.	10		
12.	26.915	27.	11		
13.	26.925	28.	27.095		
14.	26.935	29.	12		
15.	26.945	30.	13		

