

# MODULATION/AMC DEFEATS

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- *JEFF MOORE &*
- *PAPABEAR*

COBRA 138XLR	TR-23
COBRA 21GTL AND 25GTL	TR-14
COBRA 21LTD	TR-14 OR D-9
COBRA 86XLR	CD-9
COBRA 29GTL	D-20
COBRA 19PLUS	D-502
COBRA 142GTL	TR-32
COBRA 32XLR	TR-18
COBRA 21XLR	TR-20
COBRA 148GTL	TR-24
COBRA 31PLUS	D-19
COBRA 29PLUS	R-79 OR D20
COBRA 33PLUS	D-17
FOR REMOTE CONTROL	D-401
COLT 222	C-228
FUZZBUSTER 2-50	Q-8
GE 3-5813B	MOD ADJ RV-2.C-96
GE 3-5814A	C-98
PACE CB145	CV-20
PEARCE SIMPSON SUPER LYNX	D-12
ROYCE 1-606	D-17
REALISTIC TRC-421	D-16
REALISTIC TRC-462	D-17
REALISTIC TRC-432	Q-12
REALISTIC TRC-473	D-17
REALISTIC TRC-417	Q-19
TEABERRY TITAN T	D-14
TENNA CB26	D-22
TRAM D-300	TR-23
UTAC TRX-400	D-11
WHISTLER 700	Q-205
WHISTLER 900	Q-305

## REALISTIC TRC-455

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- *SILAS GOLDEN Jr.*

HI/LO FREQUENCY CONVERSION WITH 5 & 10Kc SWITCHES.

THIS MODIFICATION GIVES YOU 219 CHANNELS, COVERING 25.755MHZ-27.865MHZ. SWITCH # 3 IS A 10Kc SWITCH AND SWITCH # 4 IS A 5Kc SWITCH, ALLOWING ALMOST UNLIMITED COVERAGE.

YOU WILL NEED 2 DPDT CENTER OFF SWITCHES, 2 SPDT SWITCHES AND 3 1N4148 DIODES. ALONG WITH SUITABLE LENGTHS OF HOOKUP WIRE. ALL ARE AVAILABLE FROM SELMAN ENTERPRISES.

1. REFER TO FIGURES 1 & 3. PREPARE YOUR SWITCHES AS FOLLOWS; SOLDER A 1N4148 DIODE FROM PINS 'A' TO 'D' ON BOTH DPDT SWITCHES, CATHODES TO PIN 'D'. SOLDER A 1N4148 DIODE TO SWITCH '4', PIN 'B', CATHODE TO PIN 'B'.

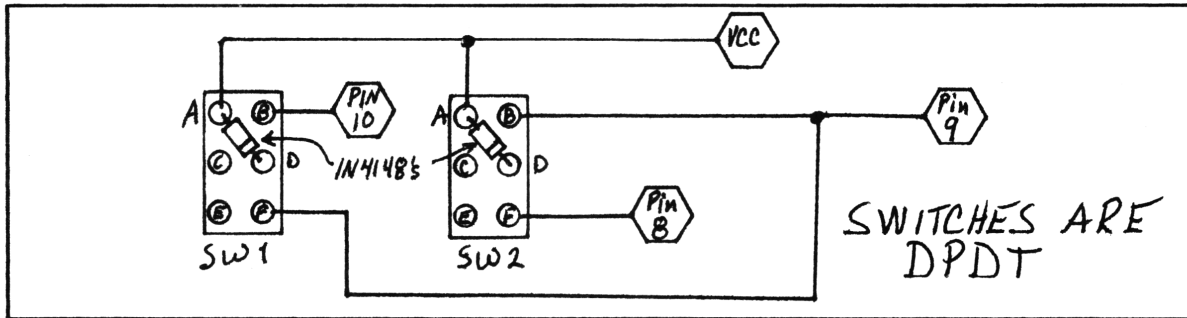


FIGURE 1. TRC-455

2. CAREFULLY REMOVE THE COVERS AND LOCATE THE PLL IC, A SM5104.
3. FIND A SUITABLE LOCATION AND MOUNT THE FOUR SWITCHES.

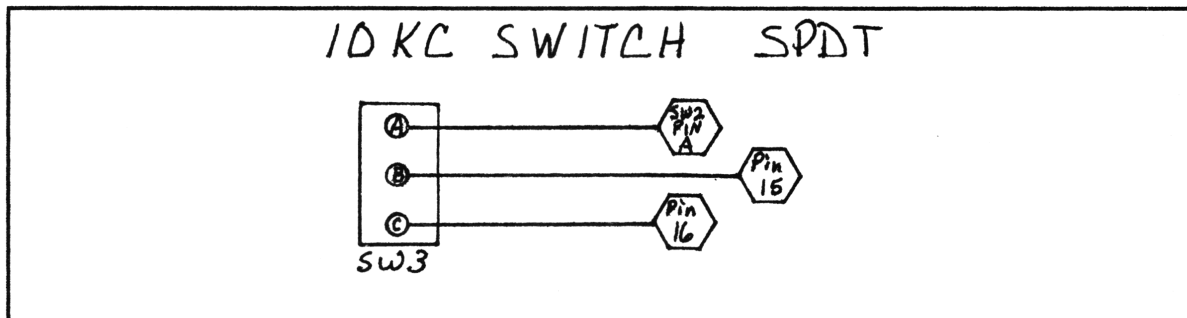


FIGURE 2. TRC-455

4. USING AN EXACTO KNIFE (OR EQUIVALENT), ISOLATE PINS 8,9,& 10 OF THE PLL IC.
5. USING YOUR HOOKUP WIRE, CONNECT PIN 'A' OF SWITCH 1 TO PIN '1' OF PLL.
6. CONNECT PIN 'B' OF SWITCH 1 TO PIN '10' OF PLL.

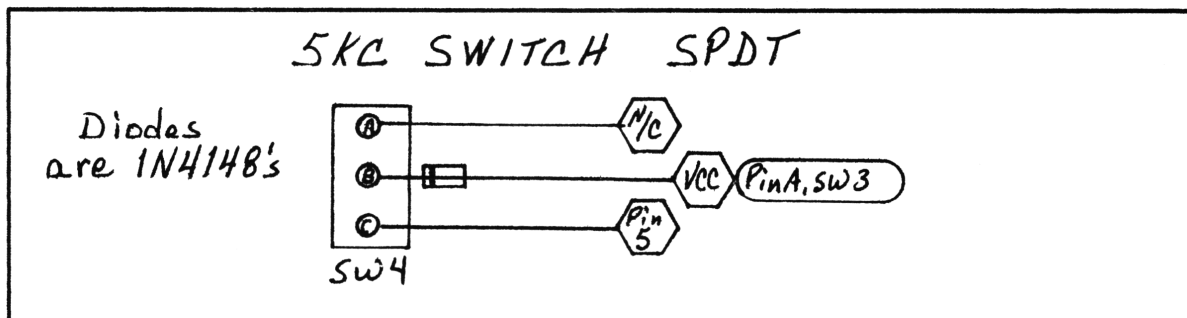


FIGURE 3. TRC-455

7. CONNECT PIN "F" OF SWITCH 1 TO PIN "B" OF SWITCH 2.
8. CONNECT PIN "A" OF SWITCH 2 TO PIN "A" OF SWITCH 1.
9. CONNECT PIN "B" OF SWITCH 2 TO PIN "9" OF PLL.
10. CONNECT PIN "F" OF SWITCH 2 TO PIN "8" OF PLL.
11. CONNECT PIN "A" OF SWITCH 3 TO PIN "A" OF SWITCH 2.
12. CONNECT PIN "B" OF SWITCH 3 TO PIN "15" OF PLL.
13. CONNECT PIN "C" OF SWITCH 3 TO PIN "16" OF PLL.
14. CONNECT THE ANODE OF THE DIODE CONNECTED TO PIN "B" OF SWITCH 4 TO PIN "A" OF SWITCH 3.
15. CONNECT PIN "C" OF SWITCH 4 TO PIN "5" OF PLL.

*NOTE: NO GROUND CONNECTION IS NEEDED, ALSO VCO ALIGNMENT WAS NOT NECESSARY IN TEST RADIO.*

*FREQUENCY CHART FOR REALISTIC TRC-455*

## **TRC-455 F<sub>o</sub> CHART**

SW.1 CTR	SW.1.DWN	SW.1.CTR	SW.1.DWN	SW.1.DWN	SW.1.UP
SW.2.CTR	SW.2.CTR	SW.2.DWN	SW.2.DWN	SW.2.UP	SW.2.UP
CH.SEL.					
01		26.325			27.605
02		26.335			27.615
03		26.345			27.625
04		26.365			27.645
05		26.375			27.655
06		26.385			27.665
07  25.755		26.395			27.675
08  25.775		26.415			27.695
09  25.785		26.425			27.705
10  25.795		26.435			27.715
11  25.805		26.445	26.765		27.725
12  25.825	26.145	26.465	26.785	27.425	27.745
13  25.835	26.155	26.475	26.795	27.435	27.755
14  25.845	26.165	26.485	26.805	27.445	27.765
15  25.855	26.175	26.495	26.815	27.455	27.775
16  25.875	26.195	26.515	26.835	27.475	27.795
17  25.885	26.205	26.525	26.845	27.485	27.805