

PALOMAR SSB500 UPDATE

The drawing is
located in Vol. 8 Pg. 41

SLIDER 5KC UP & 4.5KC DOWN

- 1-Cut D30
- 2-Jumper D29
- 3-Cut R119. NOTE: R119 must be cut at the end shown in drawing.
- 4-Add a wire from the cut end of R119 to the stripe end of D44.
- 5-Ground the lug on the clarifier as shown in drawing.

High frequencies 27.415 thru 27.965. This requires three SPST switches.

- 1-Add switches 1, 2, 3, & 4 as shown in drawing. Switch 1 to pin 14, switch 2 to pin 13, switch 3 to pin 12, switch 4 to pin 11 of the PLL CKT MC145106.
- 2-See the back of this sheet for operation and frequencies.

Low frequencies 26.325 thru 26.955. This requires 2 SPST switches.

- 1-Cut brown wire between pin 11 of the PLL CKT (MC145106) and the channel selector. Add a switch, this is switch 6.
- 2-Cut the red wire between pin 10 of the PLL CKT (MC145106) and the channel selector. Add a switch, this is switch 5.
- 3-See frequency listing and operation on the back of this sheet.

AM power up NOTE: If low frequencies are added, use channel 20.
If high frequencies are added use channel 40.

- 1-Adjust VR8 to maximum AM power.
- 2-Adjust L32, L30, L37, & L38 for maximum AM power.

SSB POWER

Adjust CT7 for maximum SSB power.

MODULATION

- 1-Adjust VR7 for 100% modulation on AM.
- 2-Adjust VR408 for maximum output on SSB. A scope should be used.

RF GAIN CONTROL 20K POT REQUIRED OR USE SQUELCH POT. (disconnect yellow and green leads)

- 1-Disconnect the RED & ORANGE wires from the RF GAIN SWITCH.
- 2-Turn VR2 fully counter clockwise. (Not necessary if squelch is used).
- 3-Connect the ORANGE wire to the center lug on the 20K POT.
- 4-Connect the RED lead to one of the outside lugs.
- 5-Ground the outer side of the POT. (NOTE: the shield around the PLL CKT may be used as a ground).

DRAWING FOR PALOMAR SSB 500
IS IN VOL. 8 PG. 41

HIGH FREQUENCY CONVERSION

FOR
PALOMAR SSB-500

THE HIGH FREQUENCIES ON THE SSB-500 WILL BE ON CHANNELS 33-40

SWITCH 1 ON

33	27.415
34	27.425
35	27.435
36	27.445
37	27.455
38	27.465
39	27.475
40	27.485

SWITCH 3 ON

33	27.655
34	27.665
35	27.675
36	27.685
37	27.695
38	27.705
39	27.715
40	27.725

SWITCH 1,2&3 ON

33	27.895
34	27.905
35	27.915
36	27.925
37	27.935
38	27.945
39	27.955
40	27.965

SWITCH 2 ON

33	27.495
34	27.505
35	27.515
36	27.525
37	27.535
38	27.545
39	27.555
40	27.565

SWITCH 1&3 ON

33	27.735
34	27.745
35	27.755
36	27.765
37	27.775
38	27.785
39	27.795
40	27.805

SWITCH 4 ON

33	27.975	
34	27.985	
35	27.995	
36	28.005	10 Meter Ham Band
37	28.015	10 Meter Ham Band
38	28.025	10 Meter Ham Band
39	28.035	10 Meter Ham Band
40	28.045	10 Meter Ham Band

SWITCH 1&2 ON

33	27.575
34	27.585
35	27.595
36	27.605
37	27.615
38	27.625
39	27.635
40	27.645

SWITCH 2&3 ON

33	27.815
34	27.825
35	27.835
36	27.845
37	27.855
38	27.865
39	27.875
40	27.885

SWITCH 1&4 ON

33	28.055	10 Meter Ham Band
34	28.065	10 Meter Ham Band
35	28.075	10 Meter Ham Band
36	28.085	10 Meter Ham Band
37	28.095	10 Meter Ham Band
38	28.105	10 Meter Ham Band
39	28.115	10 Meter Ham Band
40	28.125	10 Meter Ham Band

SWITCH 2&4 ON

33	28.135	10 Meter Ham Band
34	28.145	10 Meter Ham Band
35	28.155	10 Meter Ham Band
36	28.165	10 Meter Ham Band
37	28.175	10 Meter Ham Band
38	28.185	10 Meter Ham Band
39	28.195	10 Meter Ham Band
40	28.205	10 Meter Ham Band

SWITCH #1-ANL SWITCH (ON is UP)
 SWITCH #2-RF GAIN SWITCH (ON is UP)
 SWITCH #3-LED BRITE/DIM SWITCH (ON is UP)
 SWITCH #4-SWITCH on rear of radio (ON is UP) -Remove PA outlet and install SPST switch. SWITCH IN DOWN POSITION is normal operation except as indicated in above switching sequences.

Squelch control has been converted to a variable RF GAIN CONTROL. The radio at present has no squelch, (If modification included).

ANL is now on same switch as noise blanker (NB). When NB SWITCH is in the ON position, so is the ANL.

THE LOW FREQUENCIES FOR SW5 WILL BE ON CHANNELS 5 THRU 28.

SW 5 ON

5	26.695	13	26.795	21	26.895
6	26.705	14	26.805	22	26.905
7	26.715	15	26.815	23	26.935
8	26.735	16	26.835	24	26.915
9	26.745	17	26.845	25	26.925
10	26.755	18	26.855	26	26.945
11	26.765	19	26.865	27	26.955
12	26.785	20	26.885	28	26.965 (Channel ONE)

LOW FREQUENCIES FOR SW6 WILL BE ON CHANNELS 1 THRU 32

SW 6 ON

1	26.325	11	26.445	21	26.575	31	26.675
2	26.335	12	26.465	22	26.585	32	26.685
3	26.345	13	26.475	23	26.615		
4	26.365	14	26.485	24	26.595		
5	26.375	15	26.495	25	26.605		
6	26.385	16	26.515	26	26.625		
7	26.395	17	26.525	27	26.635		
8	26.415	18	26.535	28	26.645		
9	26.425	19	26.545	29	26.655		
10	26.435	20	26.565	30	26.665		

NOTE: To add low frequencies, use the following

SW1 - NB

SW2 - ANL

SW3 &4- DPDT CENTER OFF SWITCH mounted in PA outlet in rear of radio.

SW5 - RF GAIN SWITCH (UP position is ON - Break contact).

SW6 -Led Bright/Dim switch (UP position is ON - Break contact).

