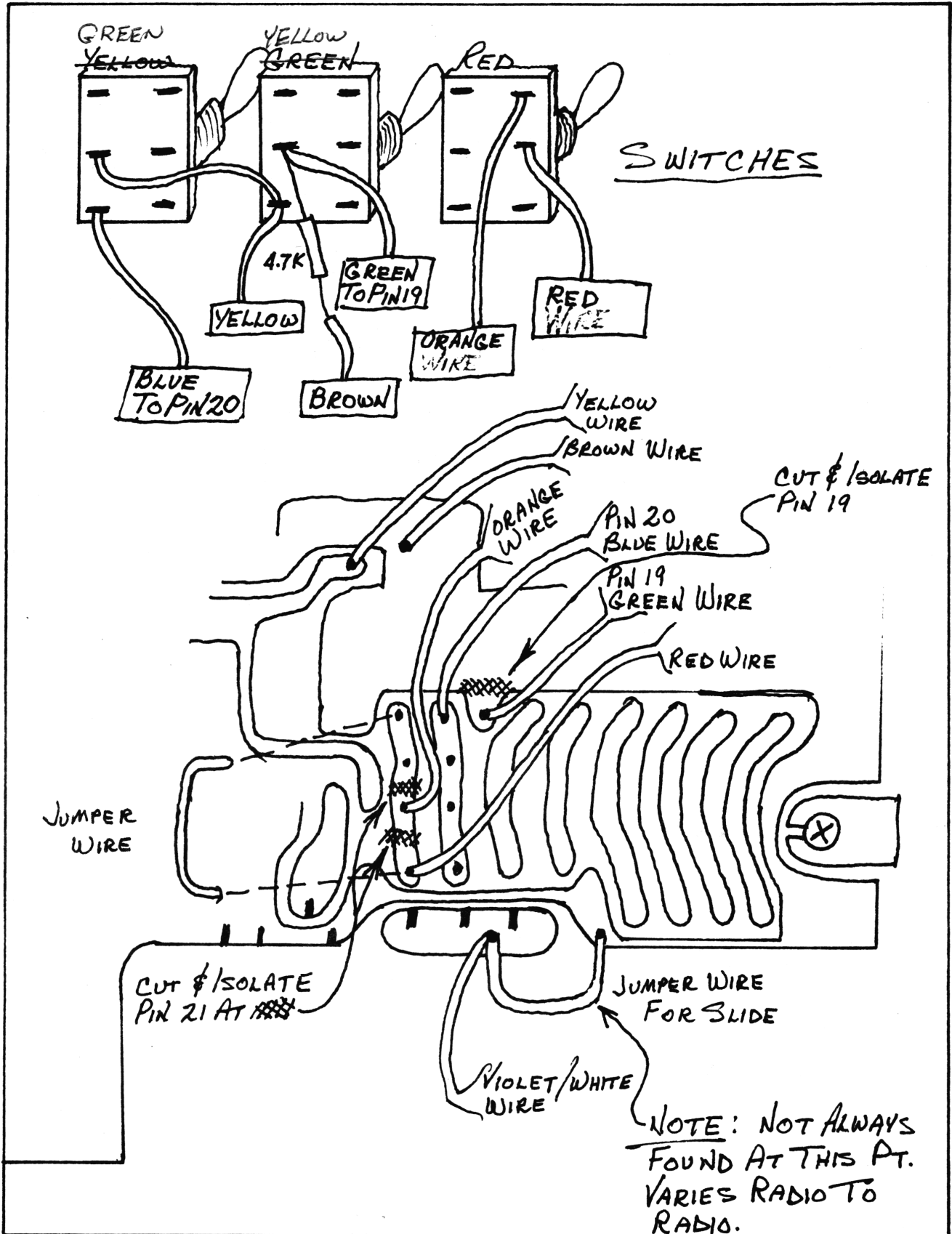


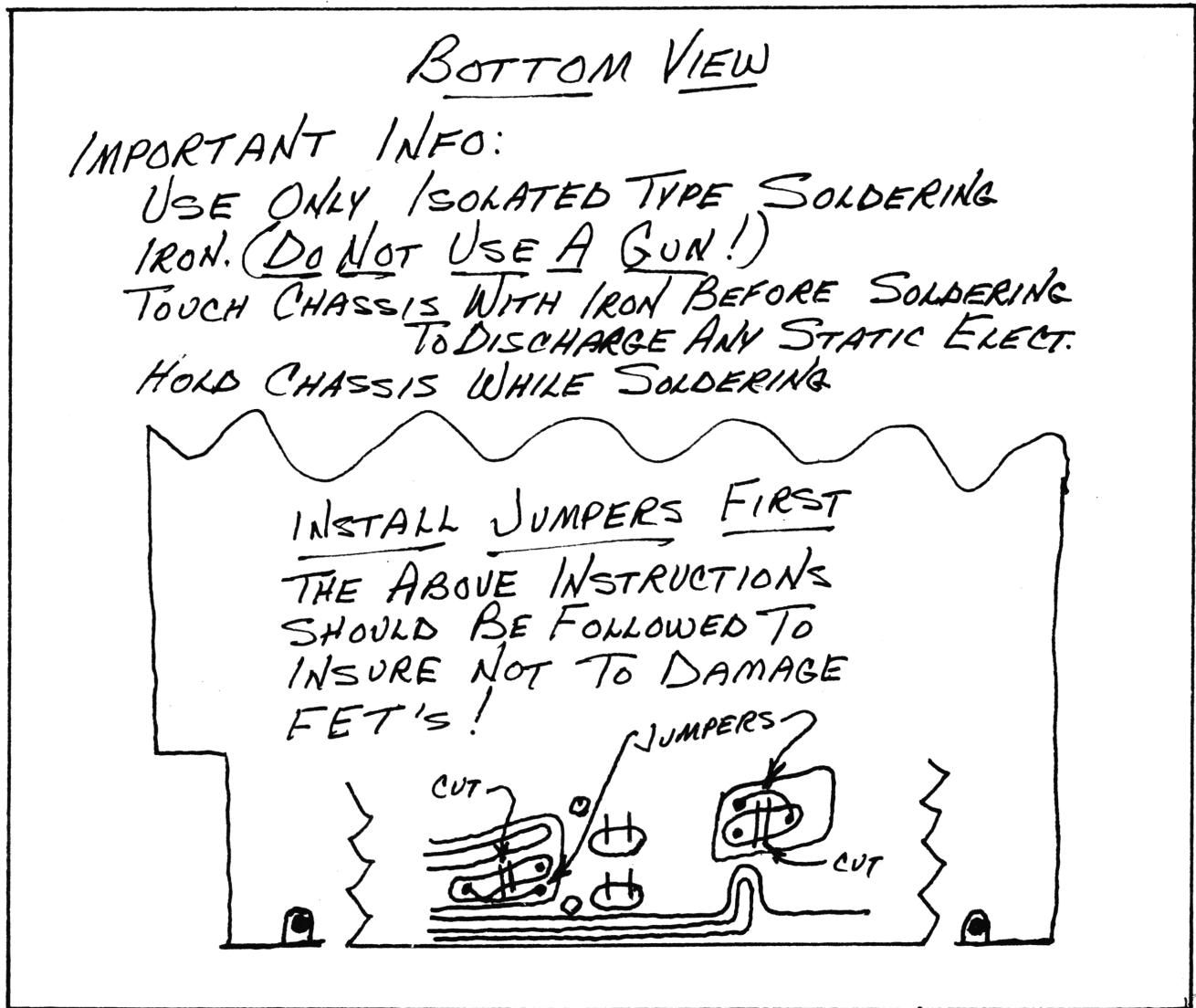
THE COMPLETE UPDATED 200 CHANNEL AMATEUR CONVERSION

FOR UNIDEN 858 CHASSIS



200 CHANNEL CONVERSION CONTINUED:

THIS MODIFICATION MUST BE INSTALLED SO THE RADIO WILL COVER THE ENTIRE RANGE WITHOUT A LOSS OF POWER.



INSTRUCTIONS

1. Locate L-37.
2. Looking at bottom of circuit board, locate areas to be modified (should be near bottom of L-37). Cut traces first.
3. Make two cuts as shown by "11". Make two jumpers and place in location as shown.

200 CHANNEL CONVERSION CONTINUED:

SLIDE INSTRUCTIONS:

Remove D30, D32, R119, and R117. Install jumper as shown in drawing. Install a 9.1V zener where D32 was removed.

Locate the violet/white wire from the clarifier control and follow it to the P/C board. Cut it loose and ground it. For maximum clarifier install a super diode in place of D45, D41, and D43. For more upward slide remove CT4, CT5, and CT6.

When you increase your slide, the clarifier gets very touchy and hard to tune, so replace your stock pot with a Secret CB Super 10 turn pot. The shaft is slightly larger than the old one, so you must carefully enlarge the hole in the knob, just so it is a snug fit and shove it on. If you make the hole too large, you will have to glue it.

Now you are ready to align your radio. You will not want to make the jump from 11 meters to 10 meter coverage too quickly, so take it easy and in small steps. I suggest you make your radio perform on the 11 meter F \emptyset ; then you will want to install the new xtals to make the modification complete to 10 meter amateur band.

You will need a shielded dummy load (Secret CB's "Little Dummy" is a good choice), an RF voltmeter, a two-tone generator (plans in Secret CB), a frequency counter, % modulation meter and/or a scope, and a signal generator. Do not try to align your radio on an unshielded dummy or an antenna. This is not good practice and is discourteous as well as illegal, as some of the F \emptyset are not allowed on amateur operation.

Make or buy a switch kit as shown and install in a convenient place on the chassis.

ALIGNMENT

1. Adjust L24 using a RF voltmeter (plans in Secret CB) on test point 6 for maximum RF.
2. Adjust receiver section next for mid-band. Remember, we are adjusting the receiver in two steps; first for 11 meters, and then for 10 meters. If you try to do it in one step you'll get it all out of whack. Adjust your signal generator for mid-band and adjust L3, L4, L5, L7, L8. Check the bottom & top F \emptyset for proper operation, then proceed to the transmitter.
3. Using a 1000 Hz tone on AM, adjust L30, L39, L37 for maximum peak RF output. Do not tune L27. Adjust VR7, VR8, & VR6 for maximum AM power & modulation. Switch to SSB and adjust CT7 for maximum SSB output. ~~Cut R43 for more ANL range - this will give you 200% improvement on your noise blanker.~~ DELETED
INCREASE VALUE OF R43 DONT GO TO HIGH AS WILL AFFECT
AUDIO OUTPUT. START WITH 1.5 M OHM

200 Channel Conversion Continued:

RED SWITCH

1.	26.965	11.	26.085	21.	26.215	31.	26.315
2.	26.975	12.	26.105	22.	26.225	32.	26.325
3.	26.985	13.	26.115	23.	26.255	33.	26.335
4.	27.005	14.	26.125	24.	26.235	34.	26.345
5.	27.015	15.	26.135	25.	26.245	35.	26.355
6.	27.025	16.	26.155	26.	26.265	36.	26.365
7.	27.035	17.	26.165	27.	26.275	37.	26.375
8.	none	18.	26.175	28.	26.285	38.	26.385
9.	none	19.	26.185	29.	26.295	39.	26.395
10.	none	20.	26.205	30.	26.305	40.	26.405

RED & GREEN SWITCH

1.	26.965	11.	26.885	21.	27.015	31.	26.315
2.	26.975	12.	26.905	22.	27.025	32.	26.325
3.	26.985	13.	26.915	23.	26.255	33.	26.335
4.	27.005	14.	26.925	24.	27.035	34.	26.345
5.	27.015	15.	26.935	25.	27.045	35.	26.355
6.	27.025	16.	26.955	26.	26.265	36.	26.365
7.	27.035	17.	26.965	27.	26.275	37.	26.375
8.	26.855	18.	26.975	28.	26.285	38.	26.385
9.	26.865	19.	26.985	29.	26.295	39.	26.395
10.	26.875	20.	27.005	30.	26.305	40.	26.405

RED & YELLOW SWITCH

1.	26.565	11.	26.485	21.	26.615	31.	26.715
2.	26.575	12.	26.505	22.	26.625	32.	26.725
3.	26.585	13.	26.515	23.	26.655	33.	26.735
4.	26.605	14.	26.525	24.	26.635	34.	26.745
5.	26.615	15.	26.535	25.	26.645	35.	26.755
6.	26.625	16.	26.555	26.	26.665	36.	26.765
7.	26.635	17.	26.565	27.	26.675	37.	26.775
8.	26.455	18.	26.575	28.	26.685	38.	26.785
9.	26.465	19.	26.585	29.	26.695	39.	26.795
10.	26.475	20.	26.605	30.	26.705	40.	26.805

The frequencies will be the same as above if all three switches are thrown simultaneously.

Now you have completed the modification to expand slide and the channels to 28.045. Now to move the radio up to the complete 10 meter amateur band you must change the 3 mixer xtals X6 11.2850 - X 3 11.2858, X 4 11.2842 with 11.8850 - 11.8858 - 11.8842 available from your favorite supplier. Then repeat all of the alignment steps as before. Set the set for mid-band and align. If the set will not work at these F \emptyset , adjust the F \emptyset down until it will work, then align in small steps until you have the full range of the amateur band. If you have trouble getting RF power up to its rated output, lower the value of C170 & C167 approximately 100 pf.

200 CHANNEL CONVERSION CONTINUED

SWITCH CHART

YELLOW & GREEN SWITCH

1.	26.565	11.	27.485	21.	27.715	31.	27.715
2.	26.575	12.	27.505	22.	27.625	32.	27.725
3.	26.585	13.	27.515	23.	27.655	33.	27.735
4.	26.605	14.	27.525	24.	27.635	34.	27.745
5.	26.615	15.	27.535	25.	27.645	35.	27.755
6.	26.625	16.	27.555	26.	27.665	36.	27.765
7.	26.635	17.	27.565	27.	27.675	37.	27.775
8.	27.455	18.	27.575	28.	27.685	38.	27.785
9.	27.465	19.	27.585	29.	27.695	39.	27.795
10.	27.475	20.	27.605	30.	27.705	40.	27.805

GREEN SWITCH

1.	26.965	11.	27.885	21.	28.015	31.	27.315
2.	26.975	12.	27.905	22.	28.025	32.	27.325
3.	26.985	13.	27.915	23.	27.255	33.	27.335
4.	27.005	14.	27.925	24.	28.035	34.	27.345
5.	27.015	15.	27.935	25.	28.045	35.	27.355
6.	27.025	16.	27.955	26.	27.265	36.	27.365
7.	27.035	17.	27.965	27.	27.275	37.	27.375
8.	27.855	18.	27.975	28.	27.285	38.	27.385
9.	27.865	19.	27.985	29.	27.295	39.	27.395
10.	27.875	20.	28.005	30.	27.305	40.	27.405

YELLOW SWITCH

1.	26.565	11.	27.485	21.	27.615	31.	27.715
2.	26.575	12.	27.505	22.	27.625	32.	27.725
3.	26.585	13.	27.515	23.	27.655	33.	27.735
4.	26.605	14.	27.525	24.	27.635	34.	27.745
5.	26.615	15.	27.535	25.	27.645	35.	27.755
6.	26.625	16.	27.555	26.	27.665	36.	27.765
7.	26.635	17.	27.565	27.	27.675	37.	27.775
8.	27.455	18.	27.575	28.	27.685	38.	27.785
9.	27.465	19.	27.585	29.	27.695	39.	27.795
10.	27.475	20.	27.605	30.	27.705	40.	27.805