

## MB8719/11.1125 CHASSIS UPDATE

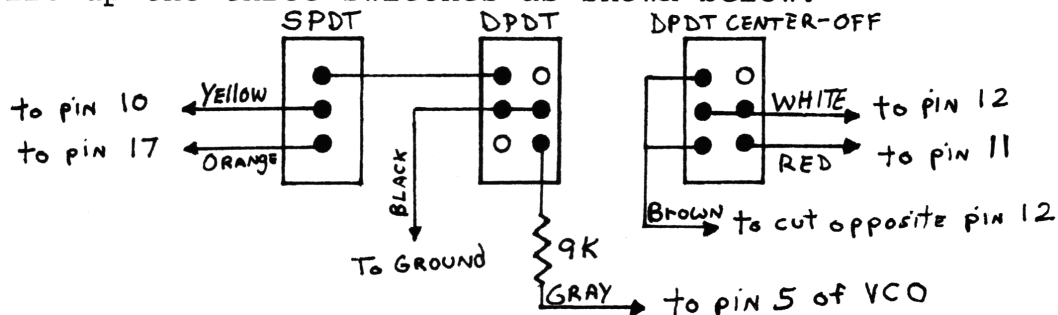
Frequency Range: 26.175 - 28.085 MHz.

Prototype Set: President Washington

Parts Required: 1 SPDT Switch  
1 DPDT Switch  
1 DPDT Center Off Switch  
1 9K  $\frac{1}{2}$  W. Resistor  
12" 7 Conductor Ribbon Wire (Yellow-Orange-Red-Brown-Black-White-Gray)

NOTE: This modification will work on sets using 8719/11.3258 also. However, to get the frequency range described above, the 11.3258 crystal will have to be substituted with the 11.1125 called for above. Also, on sets using the MB8734 chip, it will have to be replaced with the MB8719 chip.

1. Wire up the three switches as shown below:



2. Isolate pin 10 of the MB8719 chip. Solder Yellow wire to pin 10.
3. Make a cut on the trace of pin 12 between chip and channel selector. Solder the White wire to pin 12 and the Brown wire to other side of cut trace.
4. Solder the Orange wire to pin 17 of the MB8719 chip.
5. Solder the Red wire to pin 11 of the MB8719 chip.
6. Solder the Black wire to ground (pin 18 of MB8719 chip).
7. Solder the Gray wire to pin 5 of the VCO chip (IC1).  
L18, Tripler adjustment, is critical and must be carefully aligned. L13 and L14 (VCO) will have to be realigned also.

### Synthesizer Alignment:

- A. Toggle the first switch so that pins 10 and 17 are connected together, Adjust L18 to give upper channels. Tune L13 & L14 so set will key up.
- B. Toggle the first switch so pin 10 is now grounded. This gives 26.325-26.765. VCO is not strong enough at low frequency so a 9K resistor has been added to pin 5 of VCO-slight alignment of VCO may be necessary.

## MB8719/11.1125 CHASSIS UPDATE (CON'T)

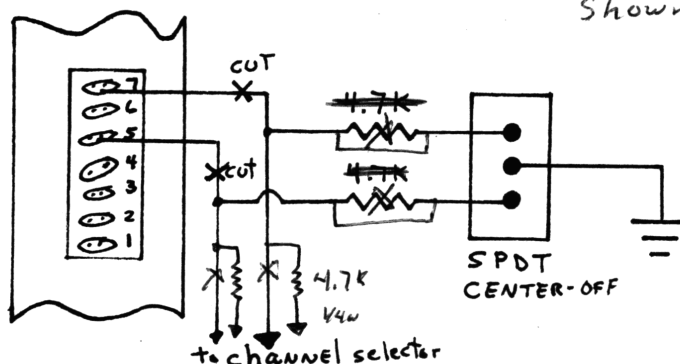
- C. The Center-Off switch will give 27.415-27.445 in the center. Frequencies of 26.815-26.965, 28.005-28.085, and 26.775-26.805 are obtained by using different combinations of the other two switches.
- D. Using the DPDT and Center-Off combinations gives 26.175-26.325.
- E. Using the SPDT switch only gives 27.605-28.045.
- F. Using the DPDT alone gives 26.325-26.765.
- G. Using the SPDT and Center-Off gives 27.455-27.605.

See specific models for Clarifier/Tune Up procedure previously published.

### CRAIG L321

1. Remove wires from terminals 5 and 7.
2. Add a 4.7k resistor in series with each wire.
3. Solder other ends of the resistors to the outside terminals of a SPDT Center-Off switch as shown.
4. Solder a wire from the middle terminal on the switch to ground. This yields channels 41-47 on 33-39 and 48-72 in other position. Center is normal.

*Do not cut the traces as shown*



### CLARIFIER- Real Simple

1. Remove Gray and Green wires next to relay and solder together.
2. Cut Blue wire next to relay and resolder to ground.
3. Adjust L5 for desired slide range.