

JACKSON: Facts about Varactors D26-D29, & D31.

by D.G.

1. Both pairs D26/27 and D28/29 are necessary for all freqs. One pair isn't for part of freqs and the other for the rest.
2. Super Diode in place D26/27 and stock diodes for D28/29: unit will, with difficulty cover the range of 25.285-28.305MHz per prior mod instructions.
3. Super Diode for each pair - unit will cover all low/lower Fo's and go beyond 28.305; BUT misses all of original Fo's on A,B,C, above Channel 8..??? Still working on explanation for this.
4. Super diode for D26/27 and one of the diodes from a Grant slider kit for D28/29. Best configuration for these 2 pairs. VCO range now 25.295-28.665MHz, .....
5. Same as step 4 but replace D31 with a Super Diode - range now 25.295-28.445 (\*), and 28.505-28.895 (\*\*).

(\*) These are difficult to program in..

(\*\*) Very little power at 28.895 (3-4W).. Main reason for this is that is going out of VCO coil's range, as slug is bottomed out. (CW or in-down on VCO slug, L12 is going up range.)

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JACKSON: Hi Fo Modification

by D.G.

25.295-28.455 (\*), 28.495-28.895 (\*\*) with Hi and Low/Lower Fo Mods.

1. Remove diode pair D26/27, replace with Super Diode.
2. Remove diode pair D28/29, replace with Varactor from a 'Grant Slide Kit'.
3. Remove D31, replace with Super diode.
4. On Band E, pin 12 PLL chip at Logic 1 state the following;  
Ch. 1-21: 28.185-28.435
5. On Band E, pin 12 PLL chip normal and pin 11 PLL at Logic 1 state the following; Ch. 1-35: 28.505-28.895  
(Power quite low at 28.895...but could be retuned for desired operating range.)

NOTE: Top 5 addresses of Pin 11 and all 164 of Pin 10 are still available - a long way to go...but VCO coil problem.

(\*) - with +10 Sw. and +10 slide... (\*\*) - with -10 slide...