

Shielded Compartment  
(not on the PC board)

C3v is a "gimic" capacitor - two pieces of insulated hookwire twisted loosely together. Length will vary - 3/4 to 1.5 inches long. More twists or tighter twists increase capacitance. Use the lowest capacitance possible consistent with good oscillation and output over the entire output range of the VFO.

Control relay RLY1 activates when this converter is producing RF. Use to prevent activation of high voltage if RF is off. Connect this relay in series with H.V. or other relays coils.

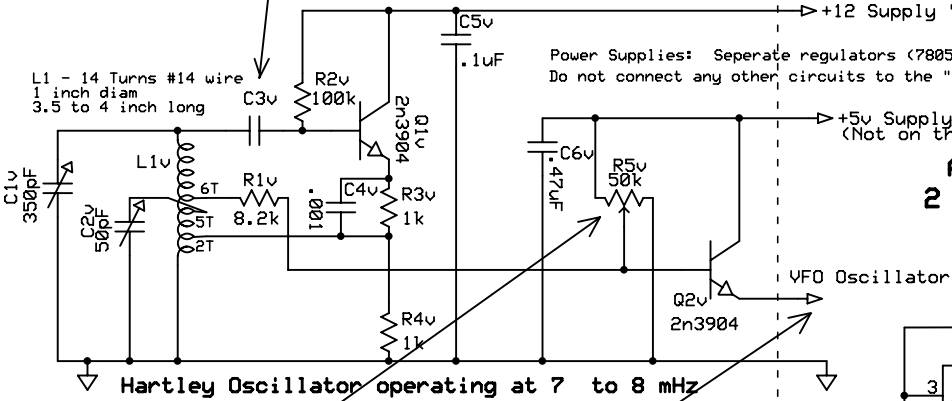
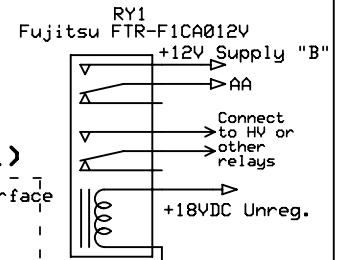
Power Supplies: Separate regulators (7805/7812) should be used for power supplies "A" (+5 and +12V) Do not connect any other circuits to the "A" power supplies or the VFO stability will be affected.

## 2 Band VFO

### Analog VFO for 80 and 160 meters

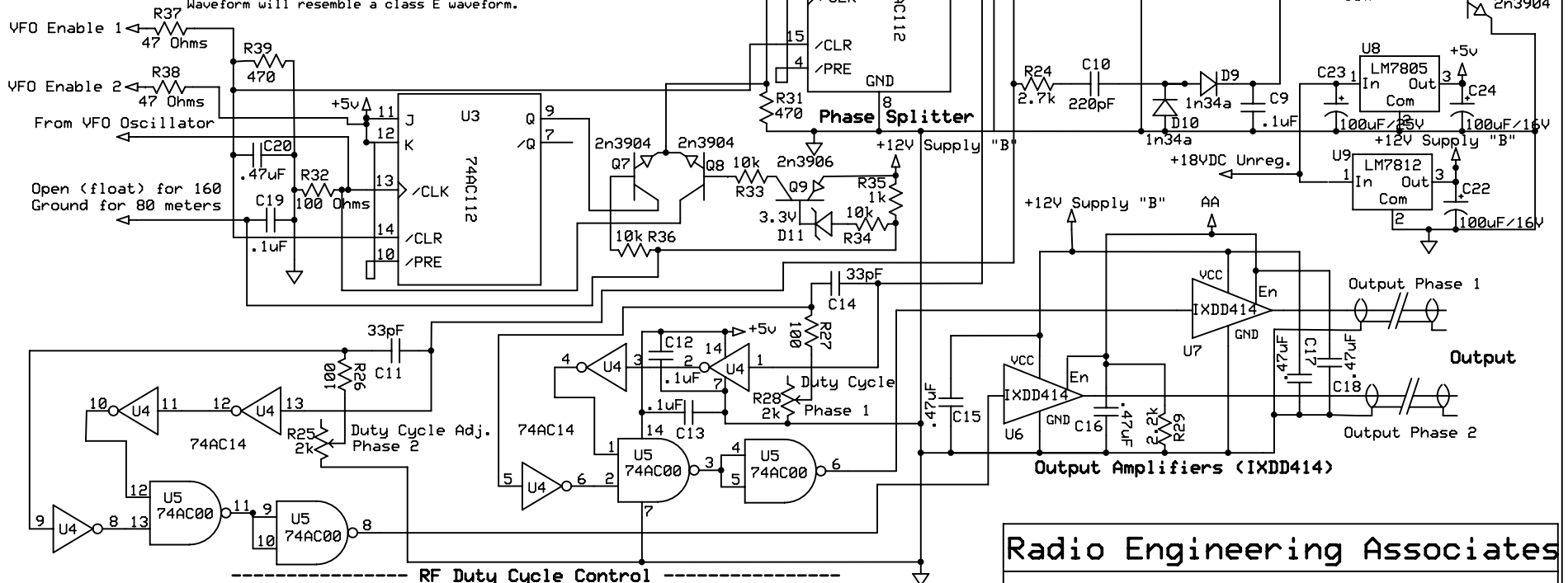
### 2 Phase (can be used with push pull)

Optional Freq. Counter Interface  
(not on the PC board)



Hartley Oscillator operating at 7 to 8 MHz

Adjust R5 while looking at this point (Osc. Out) with an oscilloscope Set R5 such that the upper portion of the waveform just begins to round off or clip. Bottom of wave will be clipped. Waveform will resemble a class E waveform.



RF Duty Cycle Control

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<b>2 Band VFO</b>		
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