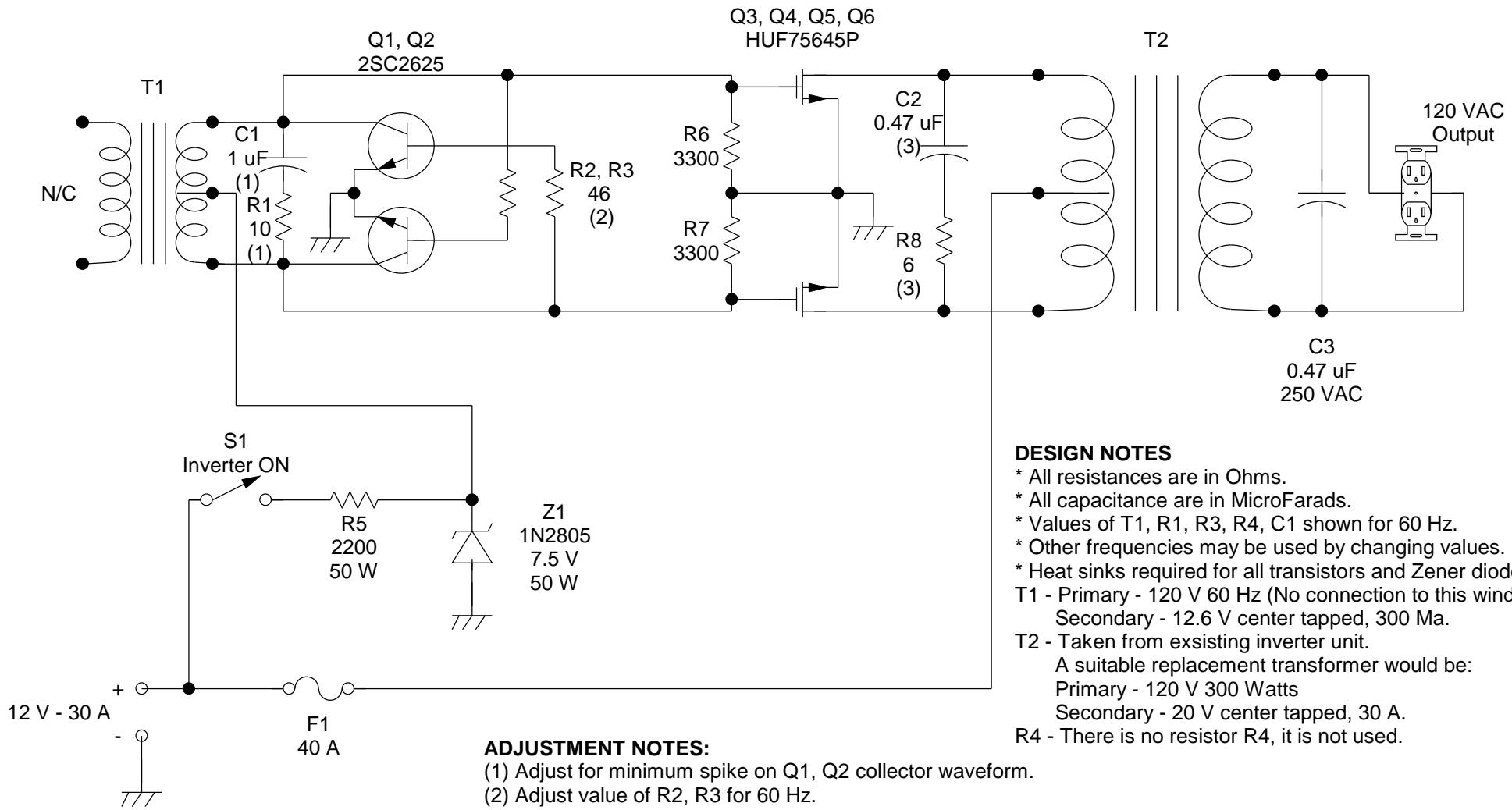


12 Volt DC to 120 Volt AC Inverter

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Design Notes corrected July 10, 2006



DESIGN NOTES

- * All resistances are in Ohms.
- * All capacitance are in MicroFarads.
- * Values of T1, R1, R3, R4, C1 shown for 60 Hz.
- * Other frequencies may be used by changing values.
- * Heat sinks required for all transistors and Zener diode.
- T1 - Primary - 120 V 60 Hz (No connection to this winding.)
Secondary - 12.6 V center tapped, 300 Ma.
- T2 - Taken from existing inverter unit.
A suitable replacement transformer would be:
Primary - 120 V 300 Watts
Secondary - 20 V center tapped, 30 A.
- R4 - There is no resistor R4, it is not used.

ADJUSTMENT NOTES:

- (1) Adjust for minimum spike on Q1, Q2 collector waveform.
- (2) Adjust value of R2, R3 for 60 Hz.
- (3) C2, R8 for minimum T2 switching spike at full load and minimum waveform ringing at no load.