



Transformer: Triad FP56-100
 Split bobbin flatpack transformer
 Input 120VAC 60Hz - Output 56VAC 100mA
 Primary resistance (phone side) 411 ohms per coil
 Secondary resistance (driver side) 52 ohms per coil

Alternative transformers include EWC DST4-56B34 which has 25 ohm secondaries that require the TIP125 darlington driver circuit as it exceeds the ULN2003 drive capability of 500mA. Primary resistance is 300 ohms per coil

Theory of Operation:
 RING_DET- triggers a 1-shot that enables RING_MODE for 4 seconds.
 LOOP_DET- cancels RING_MODE.
 RING_MODE picks the relay to engage the ringing transformer and battery feed.
 RING_MODE also starts up a ringing cadence that is 400ms on, 200ms off, 400ms on, 2000ms off.
 The ringing cadence alternately engages PHASE_A and PHASE_B of the drive transistors for the ringing transformer at a 25Hz rate.
 The 25Hz osc is provided by ...

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Title: American to English Ringing Converter	
Size: 970424-PH	Document Number: 970424-PH
Date: Monday, August 13, 2001	Sheet: 1 of 1
	Rev: A