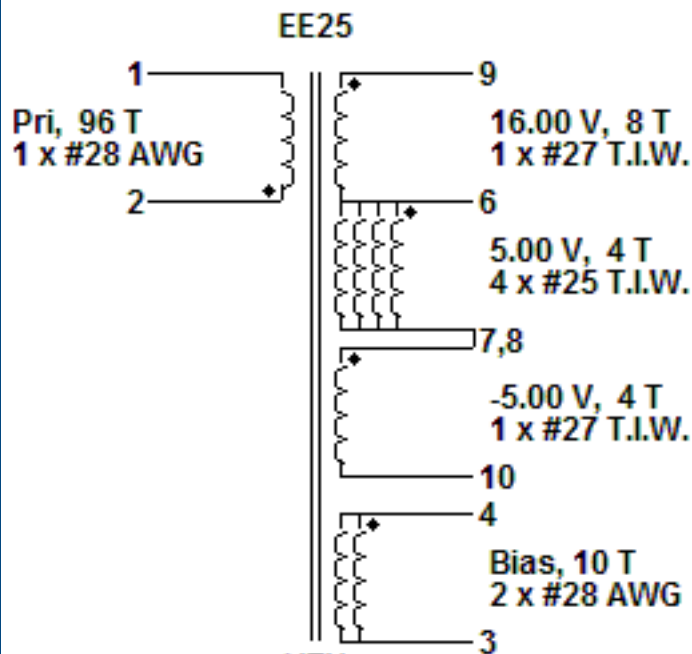
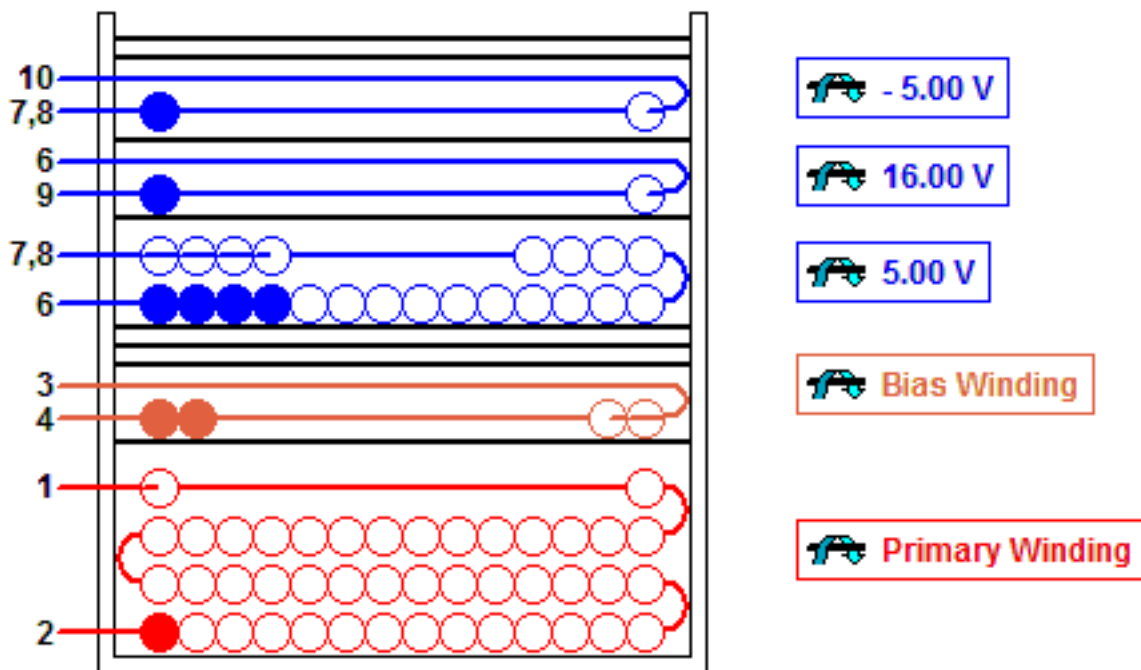


## Electrical Diagram



**KEY**  
 Pri = Primary Winding  
 T.I.W. = Triple Insulated Wire

## Mechanical Diagram



### KEY

- Mechanical start of winding (also denotes electrical phase)
- 🌀 Direction of winding (clockwise)

## Winding Instruction

### Primary Winding

Start on pin(s) 2 and wind 96 turns (x 1 filar) of item [5], in 4 layer(s) from left to right. At the end of 1st layer, continue to wind the next layer from right to left. At the end of 2nd layer, continue to wind the next layer from left to right. Continue the same way as in previous 2 layers. On the final layer, spread the winding evenly across entire bobbin. Finish this winding on pin(s) 1.

Add 1 layer of tape, item [3], for insulation.

**Bias Winding**

Start on pin(s) 4 and wind 10 turns (x 2 filar) of item [5]. Wind in same rotational direction as primary winding. Spread the winding evenly across entire bobbin. Finish this winding on pin(s) 3.

Add 3 layers of tape, item [3], for insulation.

**Secondary Winding**

Start on pin(s) 6 and wind 4 turns (x 4 filar) of item [6]. Spread the winding evenly across entire bobbin. Wind in same rotational direction as primary winding. Finish this winding on pin(s) 7,8.

Add 1 layer of tape, item [3], for insulation.

Start on pin(s) 9 and wind 8 turns (x 1 filar) of item [7]. Spread the winding evenly across entire bobbin. Wind in same rotational direction as primary winding. Finish this winding on pin(s) 6.

Add 1 layer of tape, item [3], for insulation.

Start on pin(s) 7,8 and wind 4 turns (x 1 filar) of item [7]. Spread the winding evenly across entire bobbin. Finish this winding on pin(s) 10.

Add 2 layers of tape, item [3], for insulation.

**Core Assembly**

Assemble and secure core halves. Item [1].

**Varnish**

Dip varnish uniformly in item [4]. Do not vacuum impregnate.

**Comments**

1. Pins 7 and 8 are electrically shorted to each other on the PCB via a copper trace.
2. For non margin wound transformers use triple insulated wire for all secondary windings.

**Materials**

Item	Description
[1]	Core: EE25, NC-2H (Nicera) or Equivalent, gapped for ALG of 92 nH/T²
[2]	Bobbin: Generic, 5 pri. + 5 sec.
[3]	Barrier Tape: Polyester film [1 mil (25 µm) base thickness], 9.80 mm wide
[4]	Varnish
[5]	Magnet Wire: 28 AWG, Solderable Double Coated
[6]	Triple Insulated Wire: 25 AWG
[7]	Triple Insulated Wire: 27 AWG

**Electrical Test Specifications**

Parameter	Condition	Spec
Electrical Strength, VAC	60 Hz 1 second, from pins 1,2,3,4 to pins 6,7,8,9,10.	3000
Nominal Primary Inductance, µH	Measured at 1 V pk-pk, typical switching frequency, between pin 1 to pin 2, with all other Windings open.	929
Tolerance, ±%	Tolerance of Primary Inductance	10.0
Maximum Primary Leakage, µH	Measured between Pin 1 to Pin 2, with all other Windings shorted.	27.88

Although the design of the software considered safety guidelines, it is the user's responsibility to ensure that the user's power supply design meets all applicable safety requirements of user's product.