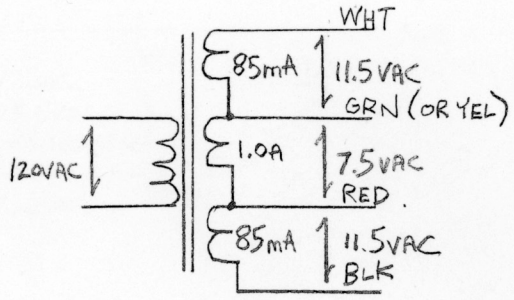
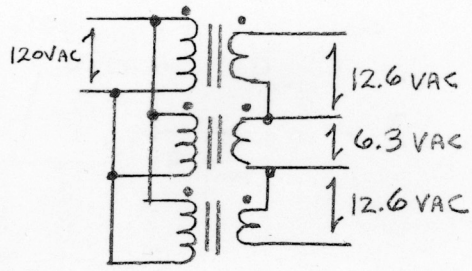
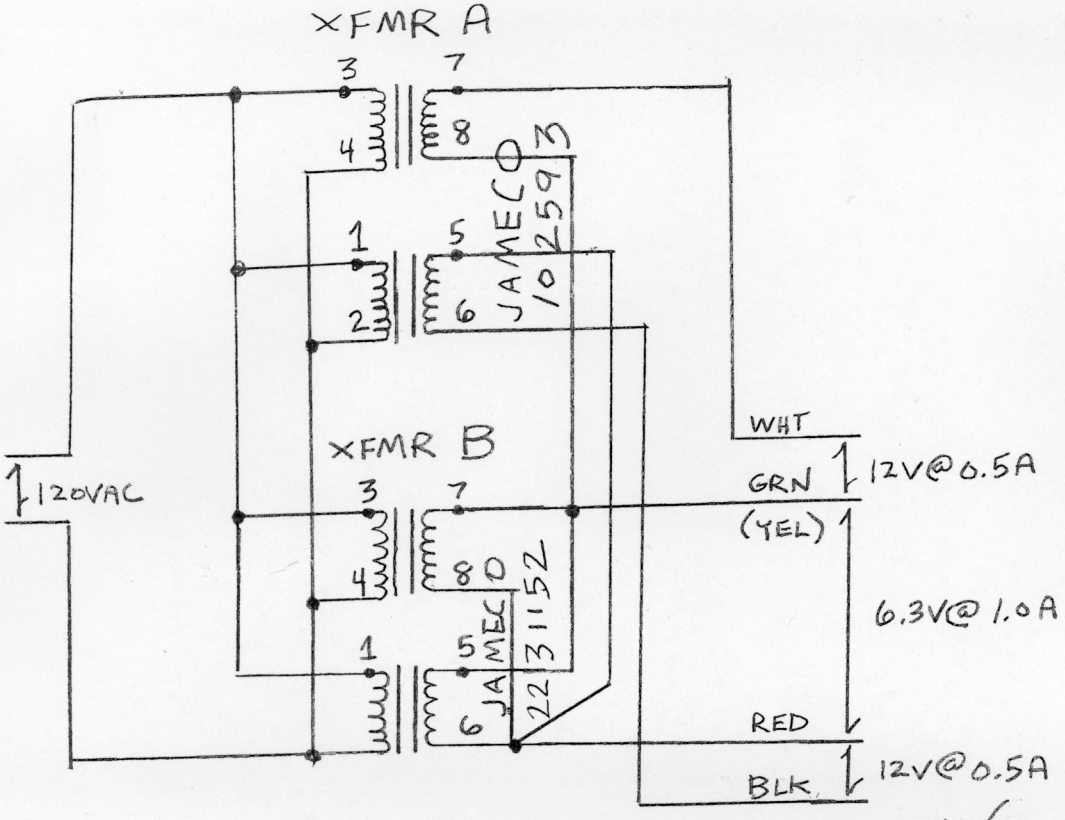


BALLY POWER TRANSFORMER
FIGURE A



POWER XFMR SUBSTITUTION
USING 3 XFMRS
FIGURE B



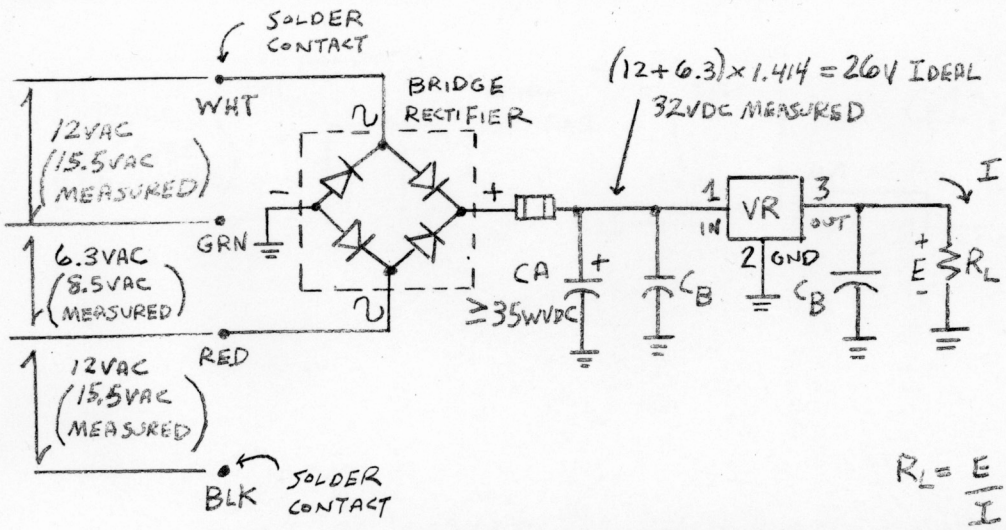
SECONDARIES

XFMR A TOP END WINDING

XFMR B (WIRED IN PARALLEL) CENTER WINDING

XFMR A BOTTOM END WINDING

JAMECO PWR XFMR SUBSTITUTION (TOP VIEW)
USING 2 SPLIT-BOBBIN XFMRS
FIGURE C



VR = VR1 OR VR2

LM342P-12
LM342P-15

LM342P-10

C_A = 1500µf OR USER'S CHOICE RATING ≥35WVDC

C_B = 0.1µf OR USER'S CHOICE (OPTIONAL)

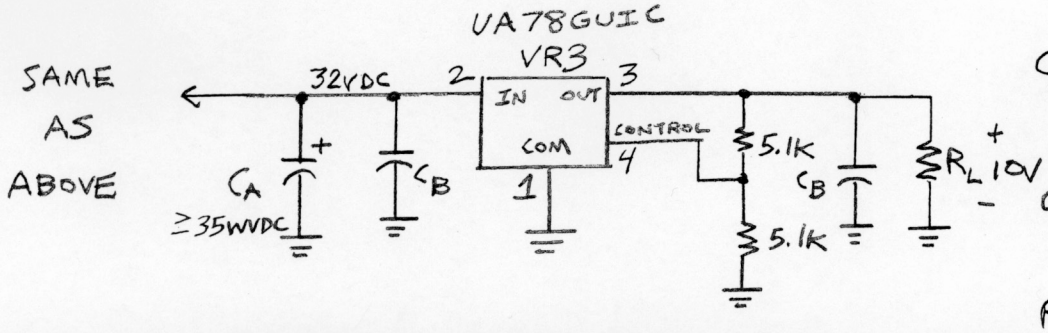
R_L = LOAD RESISTOR USER'S CHOICE

$R_L = \frac{E}{I}$ $P_L = I^2R = \frac{E^2}{R_L}$ RATE RESISTOR POWER WATTAGE HIGHER THAN P_L

↑ POWER

EXAMPLE USE 250Ω 5W RESISTOR

TEST CIRCUIT 1
VOLTAGE REGULATORS VR1, VR2



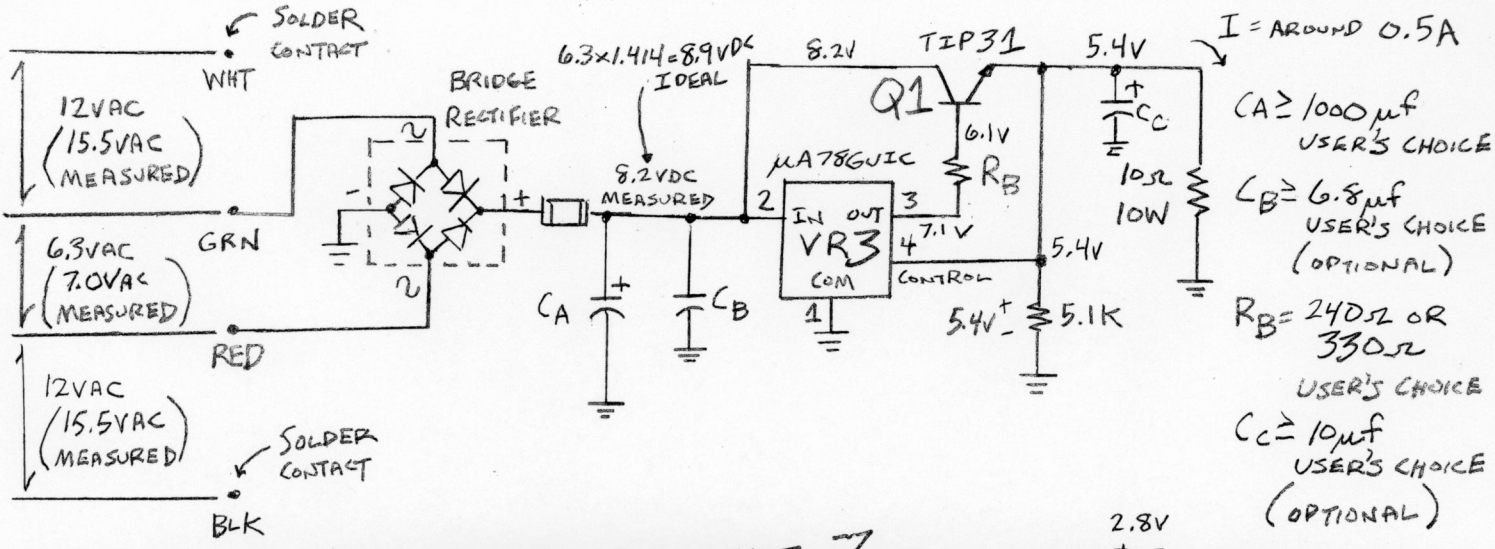
C_A = 1500µf OR USER'S CHOICE RATING ≥35WVDC

C_B = 0.1µf OR USER'S CHOICE (OPTIONAL)

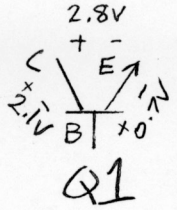
R_L = LOAD RESISTOR USER'S CHOICE

EXAMPLE USE 250Ω 5W RESISTOR

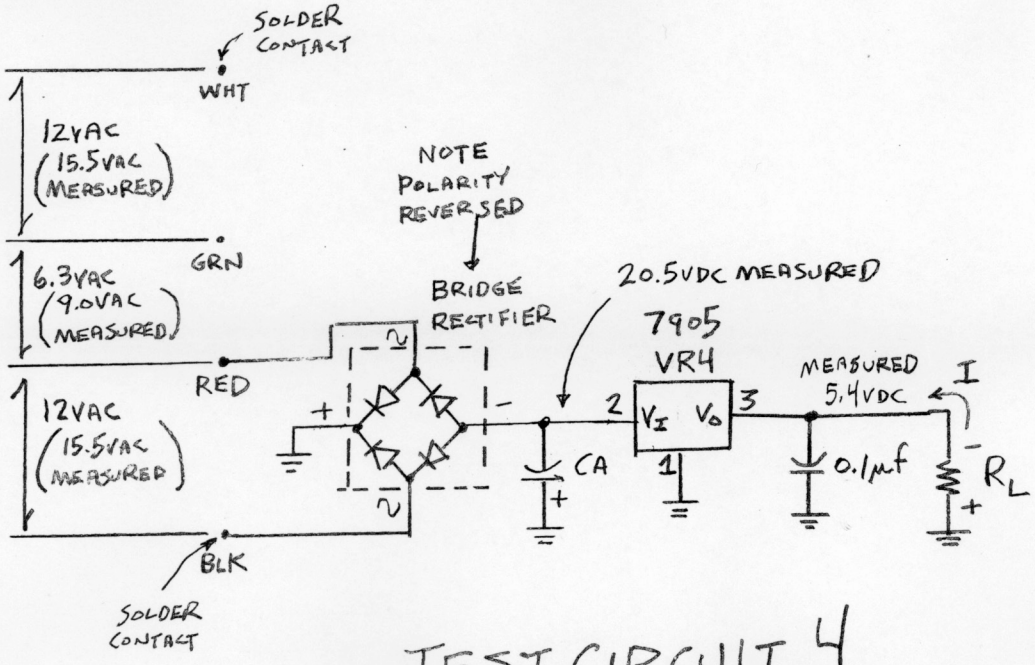
TEST CIRCUIT 2
VOLTAGE REGULATOR VR3 (ALONE)



TEST CIRCUIT 3
POWER PASS TRANSISTOR Q1 (ALONG WITH VR3)



MEASURED VOLTS
B-E 0.7V
B-C 2.1V
C-E 2.8V



CA ≥ 100μf USER'S CHOICE
RL = USER'S CHOICE

TEST CIRCUIT 4
VR4, -5V SUPPLY