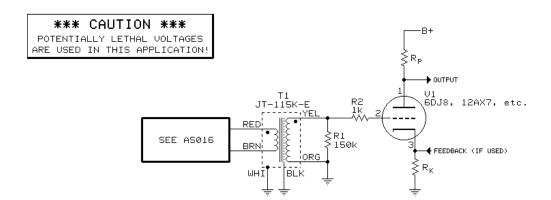
## JT-115K-E TUBE MICROPHONE PREAMP GENERIC INPUT STAGE



#### NOTES

RESISTORS R1 AND R2 ARE  $\pm 1\%$  1/4 $\omega$  METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT RESISTORS R $_p$  AND R $_K$  SHOULD BE WIREWOUND OR METAL FOIL TYPES TO REDUCE EXCESS NOISE CONTRIBUTION ALL RESISTORS IN OHMS ( 6k81 = 6.81k, 68r1 = 68.1 )

RESISTOR R2 SHOULD BE MOUNTED AS CLOSE AS POSSIBLE TO V1 TO PREVENT POSSIBLE SPURIOUS VHF OSCILLATIONS V1 SOCKET SHOULD BE HIGH QUALITY NON-HYGROSCOPIC TYPE, SUCH AS PORCELAIN, FOR LOWEST NOISE USE OF VERY CLEAN DC POWER FOR PLATE AND HEATER IS HIGHLY RECOMMENDED

IF T1 IS NEAR A POWER TRANSFORMER, CONSIDER USING THE TRIPLE MAGNETIC SHIELDED VERSION, THE JT-115K-E90

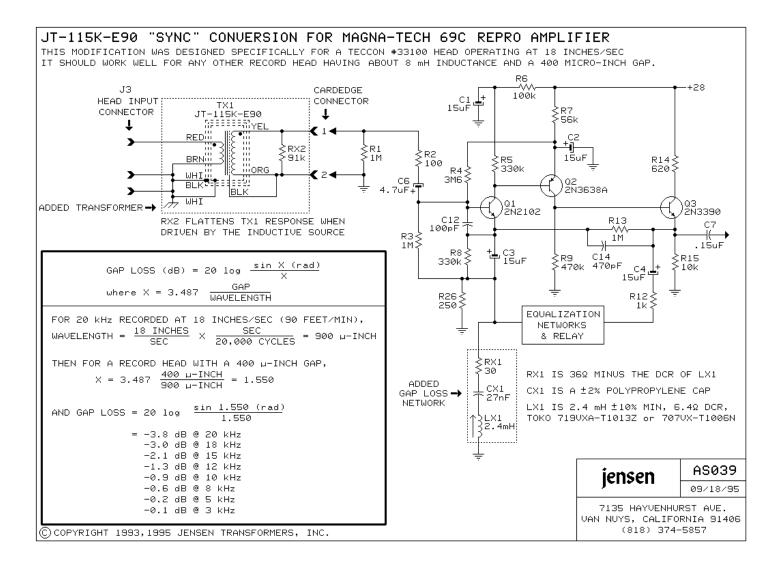
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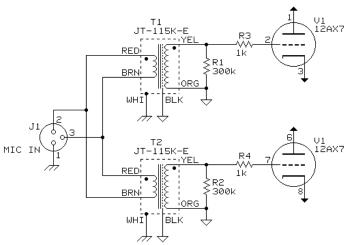
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#### TWO JT-115K-E USED IN SYMMETRICAL MIC INPUT STAGE

A 1:20 STEP-UP TRANSFORMER WITH CENTER-TAPPED SECONDARY IS EFFECTIVELY REALIZED



NOTE INTENTIONAL "OUT-OF-PHASE" PRIMARY HOOK-UP

#### \*\*\* CAUTION \*\*\*

POTENTIALLY LETHAL VOLTAGES ARE USED IN THIS APPLICATION!

# NOTES

- 1. ALL RESISTORS IN OHMS ( 6k81 = 6.81k, 68r1 = 68.1 )
- 2. ALL RESISTORS ARE  $\pm\,1\%$  1/4 $\omega$  METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT
- 3. IF T1 AND T2 ARE NEAR A POWER TRANSFORMER, CONSIDER USING THE TRIPLE MAGNETIC SHIELDED VERSION, THE JT-115K-E90  $\,$

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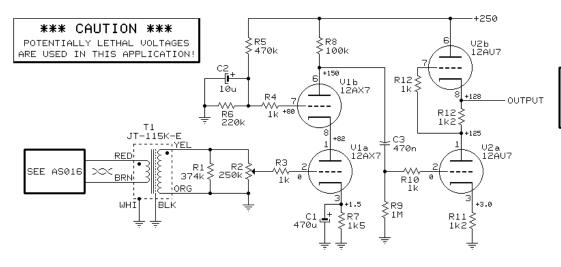
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## JT-115K-E CASCODE TUBE MICROPHONE INPUT STAGE



CAN BE DC COUPLED TO UPPER GRID IN OUTPUT DRIVER OF JENSEN JT-10K61-1M DATA SHEET.

OVERALL GAIN (INCLUDING TRANSFORMER) = 5000x (74 dB) MAX ELECTRONIC GAIN = 550x (55 dB) MAX

### **NOTES**

- 1. RESISTORS ARE  $\pm 1\%$  1/4 $\omega$  METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT R8 SHOULD BE WIREWOUND OR METAL FOIL TYPE TO REDUCE EXCESS NOISE CONTRIBUTION 1 k RESISTORS SHOULD BE AS CLOSE AS POSSIBLE TO TUBES TO PREVENT POSSIBLE SPURIOUS VHF OSCILLATIONS
- 2. U1 SOCKET SHOULD BE HIGH QUALITY NON-HYGROSCOPIC TYPE, SUCH AS PORCELAIN, FOR LOWEST NOISE
- 3. IF T1 IS NEAR A POWER TRANSFORMER, CONSIDER THE TRIPLE MAGNETIC SHIELDED JT-115K-E90
- 4. USE OF VERY CLEAN DC POWER FOR PLATE AND HEATER IS HIGHLY RECOMMENDED

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