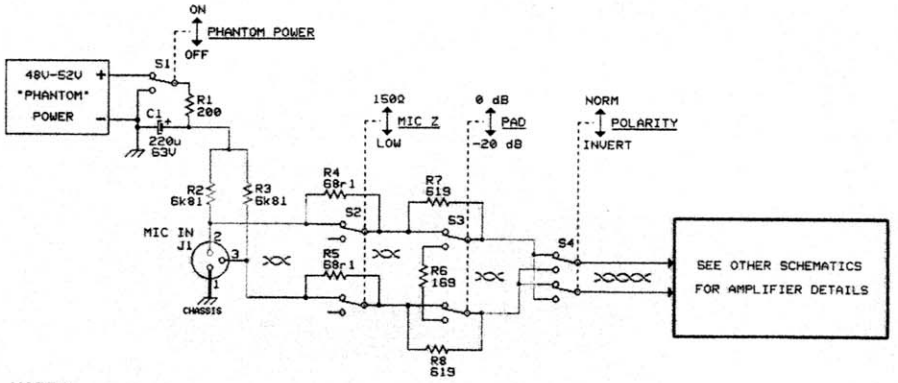
STANDARD MICROPHONE PREAMP INPUT CIRCUITRY



NOTES

ALL RESISTORS ARE ±1% 1/4w METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT

TIGHTLY TWIST LEADS AS SHOWN XX IN PATH FROM J1 TO INPUT TRANSFORMER TO MINIMIZE ELECTROMAGNETIC PICKUP

RESISTORS R2 AND R3 SHOULD BE MATCHED TO ±0.1% FOR BEST COMMON MODE NOISE REJECTION

USE ONLY QUALITY SWITCHES WITH GOLD PLATED "VIRGIN" CONTACTS AT S2, S3, AND S4

USE OF GOLD PLATED CONTACTS IN XLR CONNECTOR AT J1 IS HIGHLY RECOMMENDED

ALL RESISTORS IN OHMS (6k81 = 6.81k, 68r1 = 68.1)

MAKE THE J1, PIN 1 CONNECTION TO CHASSIS AS SHORT AND DIRECT AS POSSIBLE.

jensen	AS016
	09/20/94

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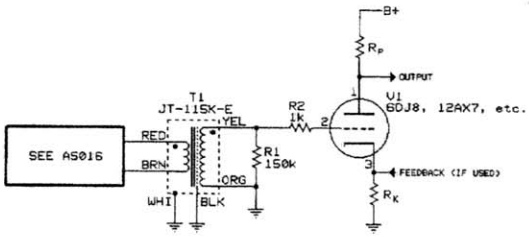
JT-115K-E TUBE MICROPHONE PREAMP GENERIC INPUT STAGE



NOTES

RESISTORS R1 AND R2 ARE ±1% 1/4w 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

jensen	AS020
	09/14/95

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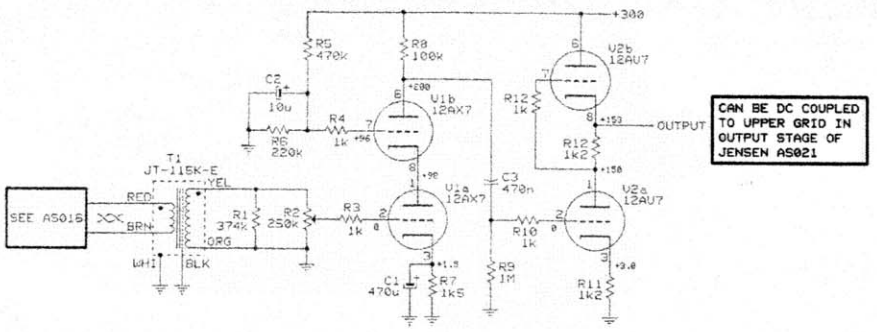
JT-115K-E CASCODE TUBE MICROPHONE INPUT STAGE



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

ELECTRONIC GAIN = 550x (55 dB) MAX

NOTES

1. RESISTORS ARE ±1% 1/4w 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. V1 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

jensen	AS054
	03/08/95

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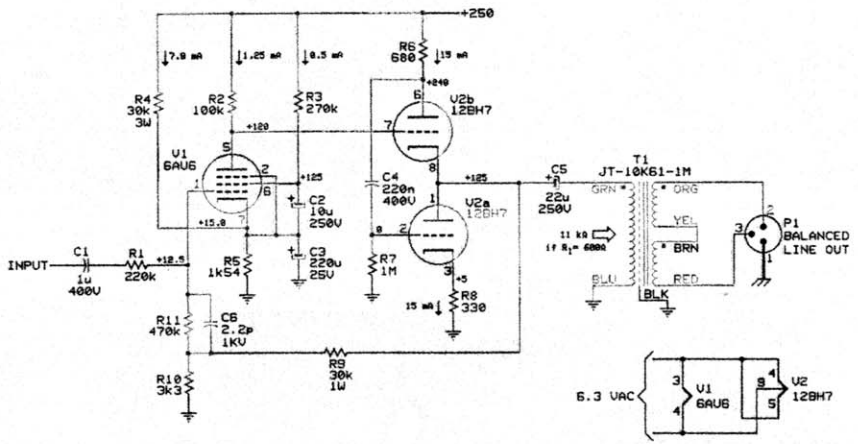
JT-10K61-1M LINE DRIVER USES PUSH-PULL VACUUM TUBE "CASCODE FOLLOWER"



NOTES

VOLTAGE GAIN, INPUT TO LINE OUTPUT = 5.3X (14.5 dB)

APPROX 10 V pk-pk AT INPUT PRODUCES FULL OUTPUT (APPROX +26 dBu INTO 600Ω)

ALL RESISTORS 1/4 W METAL FILM TYPES UNLESS NOTED

jensen	AS021
	09/14/95

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