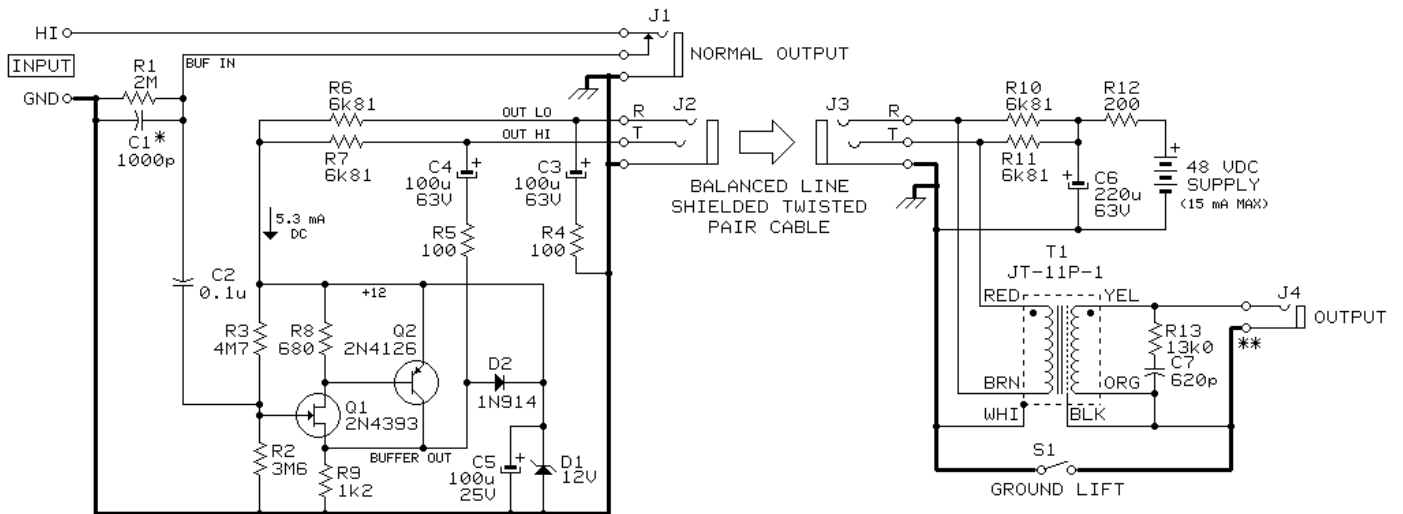


# JT-11P-1 + "PHANTOM" BUFFER PROVIDE BALANCED GUITAR OUTPUT



BUFFER INPUT IMPEDANCE = 1 MΩ  
 BUFFER OUTPUT IMPEDANCE = 200 Ω BALANCED  
 BUFFER VOLTAGE GAIN = UNITY (0 dB)  
 MAX UNDISTORTED INPUT/OUTPUT = 3.5 URMS (10 V pk-pk)

INPUT "HI" AND "GND" CONNECT TO OUTPUT OF EXISTING PICKUP AND VOLUME/TONE CONTROLS.

\*C1 SIMULATES THE PICKUP LOADING EFFECT OF A NORMAL 20' GUITAR CABLE. IT MAY BE ALTERED IN VALUE OR OMITTED.

FOR BEST HUM & BUZZ REJECTION IN BALANCED LINE, 1% RESISTOR PAIRS R4-R5, R6-R7, AND R10-R11 MUST BE WELL MATCHED.

\*\* J4 MOUNTING MUST INSULATE IT FROM CHASSIS.

PLUGGING INTO "NORMAL" OUTPUT DISCONNECTS BUFFER - J1 AND J2 OUTPUTS CANNOT BE USED SIMULTANEOUSLY.  
 BALANCED LINE CONNECTING J2 AND J3 CAN BE VERY LONG.  
 CABLE CONNECTING J4 TO AMPLIFIER SHOULD BE UNDER 3' LONG TO AVOID HIGH FREQUENCY ROLL-OFF EFFECTS.

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