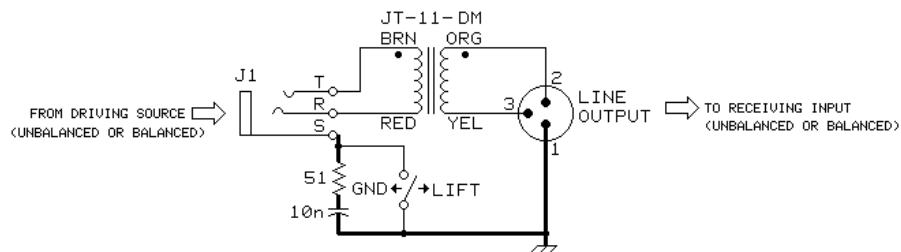


## JT-11-DM CONVERTS UNBALANCED OUTPUT TO BALANCED



IF A 3-CONDUCTOR (SHIELDED TWISTED PAIR) PATCH CABLE IS USED AND IS PLUGGED INTO A 2-CONDUCTOR (UNBALANCED) PHONE JACK, SHIELD CURRENTS ARE PREVENTED FROM FLOWING IN THE SIGNAL CONDUCTOR, WHICH CAN DRAMATICALLY REDUCE HUM. THIS IS ESPECIALLY TRUE IN CASES WHERE THE DRIVING SOURCE FLOATS (2 PIN AC PLUG) AND MUST GET A GROUND REFERENCE THROUGH ITS SHIELD (AND THIS BOX). OF COURSE, 2-CONDUCTOR PLUGS AND PATCH CABLES WILL WORK (KEEP THEM AS SHORT AS POSSIBLE), BUT 3-CONDUCTOR PATCH CORDS WILL WORK MUCH BETTER.

AN OUTPUT TRANSFORMER BOX CAN BE VERY USEFUL TO REDUCE OR ELIMINATE "HUM" IN AUDIO SYSTEMS. IT WILL USUALLY DO A GOOD JOB AT ELIMINATING "HUM", BUT IS MUCH LESS EFFECTIVE AT THE HIGHER FREQUENCIES CONTAINED IN "BUZZ". AN INPUT TRANSFORMER, INSTALLED AT THE CABLE'S RECEIVE END, IS THE BEST SOLUTION FOR BOTH "HUM" AND "BUZZ". SEE JENSEN AN003 FOR ADDITIONAL DETAILS.

### NOTES

1. FOR LOWEST DISTORTION, OUTPUT IMPEDANCE OF THE DRIVING SOURCE SHOULD BE 600Ω OR LESS.
2. IF A METAL BOX IS USED, THE HOUSING OF J1 SHOULD BE INSULATED FROM IT BECAUSE, IF NOT, THE GROUND LIFT SWITCH WILL HAVE NO EFFECT.
3. THE SERIES RC NETWORK PROVIDES SHIELD TERMINATION AT RADIO FREQUENCIES TO HELP REDUCE RFI PROBLEMS AT THE SYSTEM LEVEL.

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AS052

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