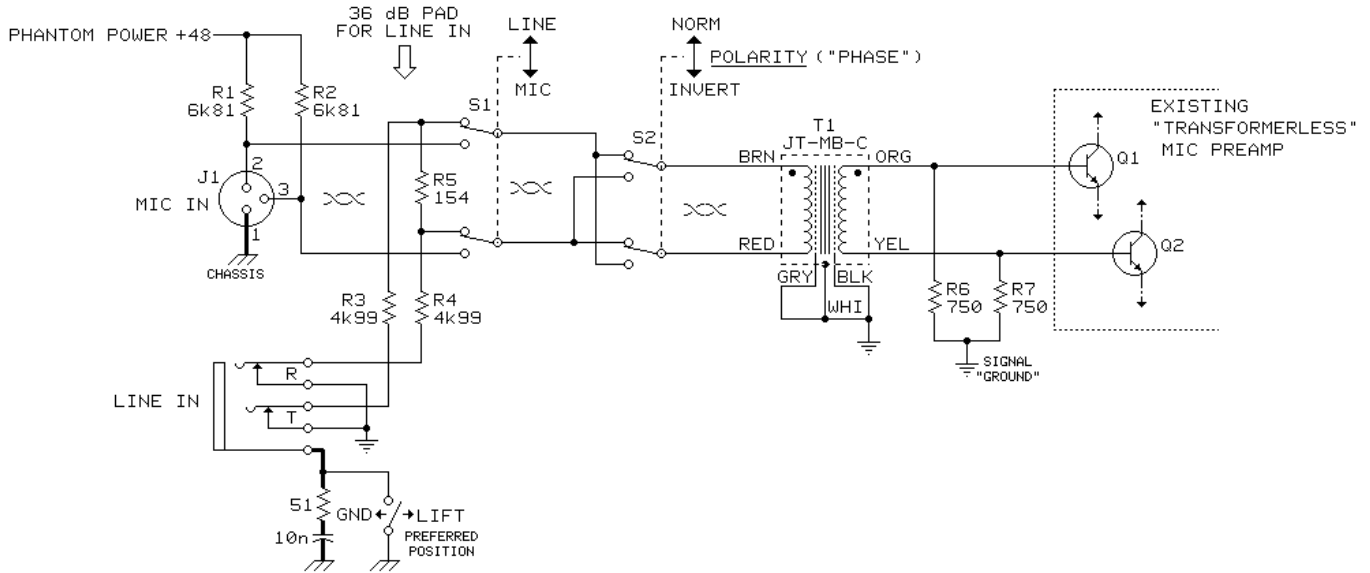


JT-MB-C ISOLATES BOTH MIC AND LINE INPUTS OF INEXPENSIVE MIXER



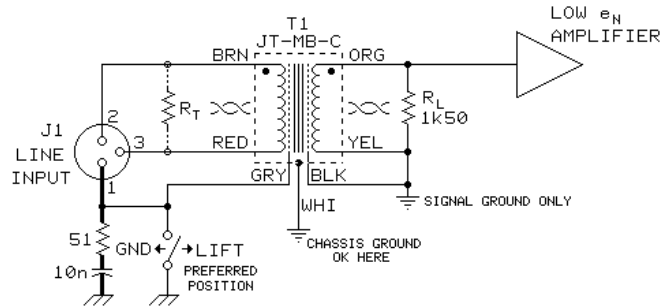
NOTES

1. ALL RESISTORS ARE $\pm 1\%$ 1/4w METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT
2. TIGHTLY TWIST LEADS AS SHOWN ∞ IN PATH FROM J1 TO T1 TO MINIMIZE ELECTROMAGNETIC PICKUP
3. RESISTORS R1 AND R2 SHOULD BE MATCHED TO $\pm 0.1\%$ FOR BEST COMMON MODE NOISE REJECTION
4. USE ONLY QUALITY SWITCHES WITH GOLD PLATED "VIRGIN" CONTACTS AT S1 AND S2
5. USE OF GOLD PLATED CONTACTS IN XLR CONNECTOR AT J1 IS HIGHLY RECOMMENDED
6. ALL RESISTORS IN OHMS (6k81 = 6.81k)

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JT-MB-C IN LOW NOISE, HIGH ISOLATION LINE RECEIVER FOR LO-Z SOURCES



THE JT-MB-C IS A 1:1 TRANSFORMER DESIGNED FOR VERY HIGH COMMON-MODE REJECTION (130 dB IS TYPICAL @ 60 Hz). ITS BANDWIDTH EXTENDS FROM 1.5 Hz TO 100 kHz, MAKING IT SUITABLE FOR MANY INDUSTRIAL APPLICATIONS AS WELL AS HIGH QUALITY AUDIO. IT REQUIRES THE SECONDARY LOAD, R_L SHOWN ABOVE, FOR PROPER DAMPING AND TRANSIENT RESPONSE. THIS MAKES THE INPUT IMPEDANCE ABOUT 1.6 k Ω , WHICH IS SUITABLE FOR SOURCE IMPEDANCES UP TO ABOUT 200 Ω WITH MINIMAL LOADING LOSSES. R_T MAY BE ADDED IF LINE TERMINATION IS REQUIRED. THE AMPLIFIER SHOULD BE OPTIMIZED FOR LOWEST NOISE FROM A 100 Ω TO 300 Ω SOURCE IMPEDANCE.

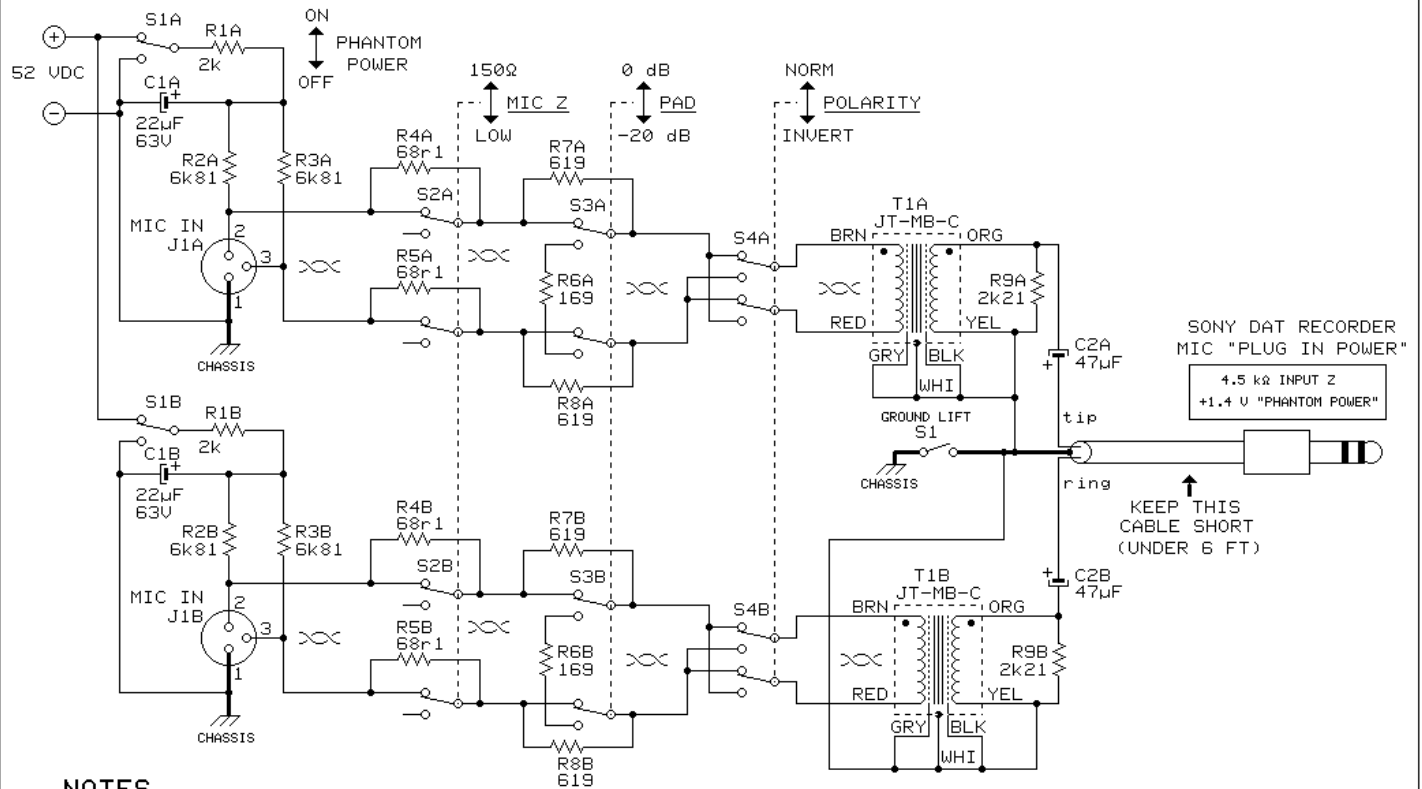
NOTES

1. R_T IS OPTIONAL LINE TERMINATION RESISTOR, TYPICALLY 50 Ω TO 150 Ω
2. ALL RESISTORS ARE $\pm 1\%$ 1/4w METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT VALUES IN OHMS (1k50 = 1.50k)
3. SEPARATELY TWIST T1 PRIMARY AND SECONDARY LEADS (SHOWN AS ∞) TO MINIMIZE ELECTROMAGNETIC PICKUP

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JT-MB-C "REAL" MIC INPUTS & PHANTOM POWER FOR SONY DAT



NOTES

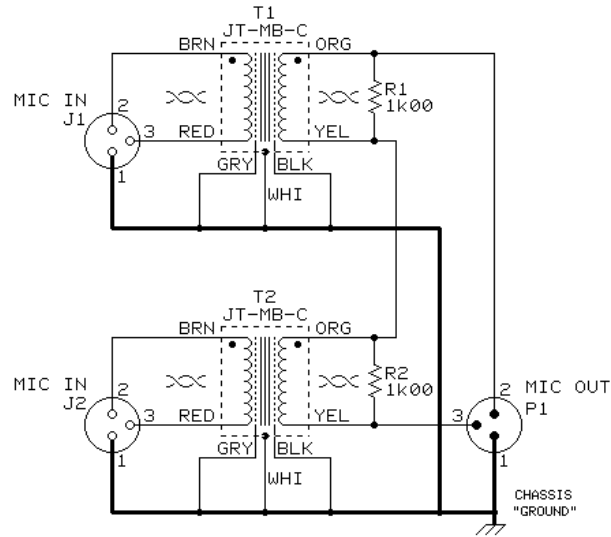
1. ALL RESISTORS ARE $\pm 1\%$ $1/4w$ METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT
ALL VALUES IN OHMS (6k81 = 6.81k), R1 AND R2 SHOULD BE MATCHED TO $\pm 0.1\%$ FOR
BEST COMMON MODE REJECTION
2. USE ONLY QUALITY SWITCHES WITH GOLD PLATED "VIRGIN" CONTACTS AT S1 AND S2
3. USE OF GOLD PLATED CONTACTS IN XLR CONNECTOR AT J1 IS HIGHLY RECOMMENDED
4. TIGHTLY TWIST LEADS SHOWN AS ∞ TO MINIMIZE ELECTROMAGNETIC PICKUP

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DUAL JT-MB-C MICROPHONE COMBINING CIRCUIT

THIS CIRCUIT WORKS TO COMBINE TWO MICROPHONE SIGNALS, BUT IS NOT RECOMMENDED UNLESS A MORE APPROPRIATE SOLUTION IS NOT POSSIBLE.

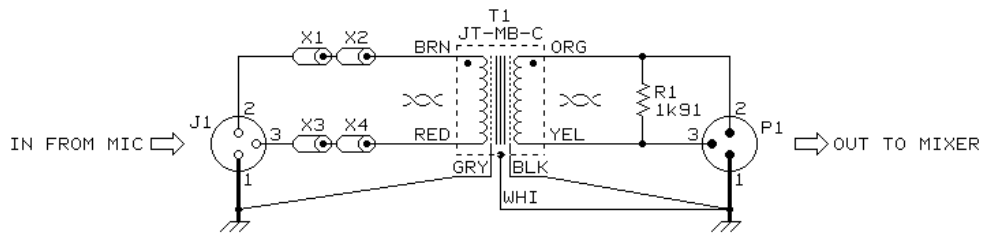


TIGHTLY TWIST LEAD PAIRS SHOWN AS ∞ TO MINIMIZE ELECTROMAGNETIC PICKUP

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JT-MB-C MIC INPUT ISOLATION FOR MACKIE MIXERS per MACKIE DESIGNS "RF Suppression Tool Box"
 EXTENDS COMMON-MODE REJECTION VOLTAGE RANGE TO ± 300 V and VIRTUALLY ELIMINATES RF INTERFERENCE PROBLEMS



IMPORTANT

THIS EXTERNAL BOX WILL NOT PASS PHANTOM POWER
 SEE AS058 FOR INTERNAL MODIFICATION WHICH WILL

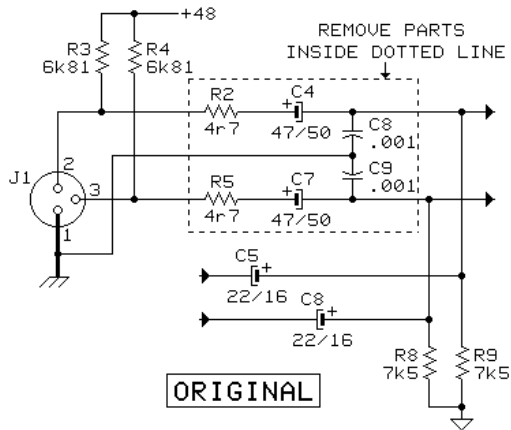
NOTES

1. R1 IS A $\pm 1\%$ 1/4w METAL FILM TYPE, ROEDERSTEIN MK2-1 OR EQUIVALENT, VALUE IN OHMS (2k37 = 2.37k)
 R1 VALUE SHOWN IS FOR MACKIE 1604 MAIN MIXER OR EXPANSION UNIT
2. TIGHTLY TWIST LEADS AS SHOWN ∞ IN PATH FROM J1-T1-P1 TO MINIMIZE ELECTROMAGNETIC PICKUP
 KEEP GRY, BLK, AND WHI LEADS SHORT AND CONNECT AS SHOWN (DO NOT TWIST WITH OTHER LEADS)
3. INSTALL X1-X4 FERRITE BEADS, JENSEN #FB-2, VERY CLOSE TO J1 FOR BEST FM & VHF REJECTION
4. USE OF GOLD PLATED CONTACTS IN XLR CONNECTORS IS HIGHLY RECOMMENDED
5. CONNECT PIN 1 OF EACH XLR TO METAL ENCLOSURE AS DIRECTLY AS POSSIBLE (SHORT HEAVY GAUGE WIRE)
6. WHITE WIRE IS CONNECTED TO TRANSFORMER CASE (CASE NEED NOT BE INSULATED FROM ENCLOSURE)

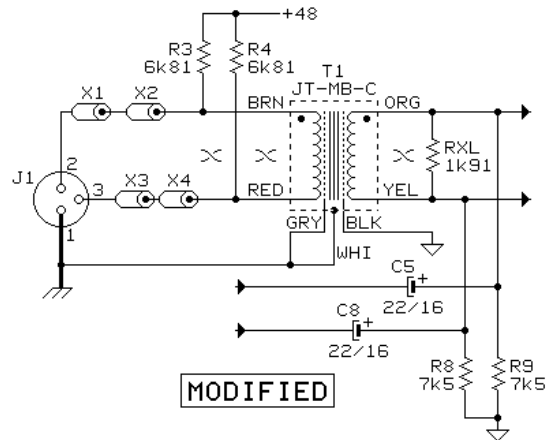
jensen	AS057
	08/03/94
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JT-MB-C MODIFICATION FOR MIC INPUTS OF MACKIE 1604 MIXER

EXTENDS COMMON-MODE REJECTION VOLTAGE RANGE TO ± 300 V and VIRTUALLY ELIMINATES RF INTERFERENCE PROBLEMS



ORIGINAL



MODIFIED

NOTES

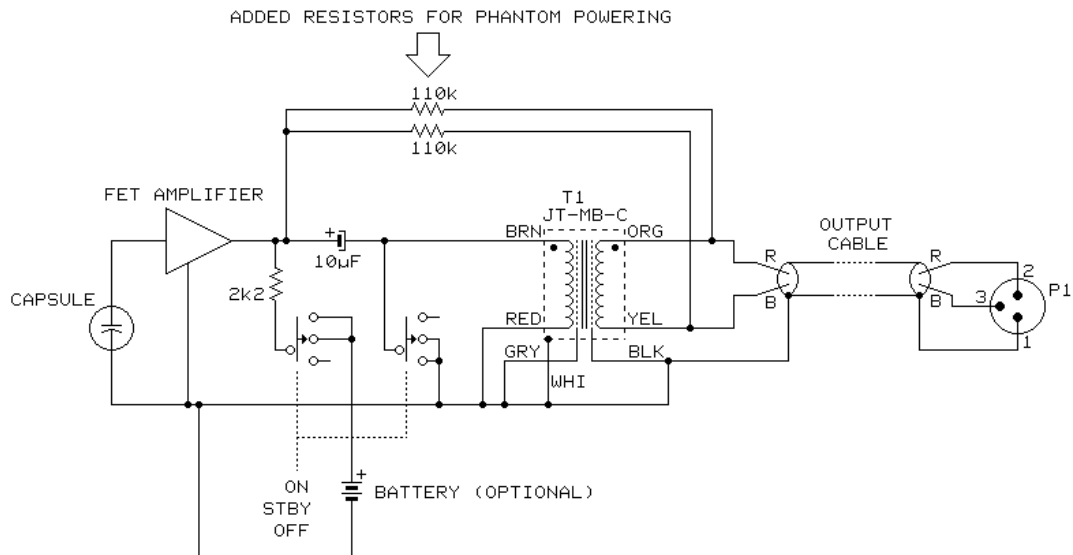
1. RXL IS A $\pm 1\%$ $1/4\omega$ METAL FILM TYPE, ROEDERSTEIN MK2-1 OR EQUIVALENT, VALUE IN OHMS (1k91 = 1.91k)
2. TIGHTLY TWIST LEADS AS SHOWN \times IN PATH FROM J1 TO T1 TO MINIMIZE ELECTROMAGNETIC PICKUP
3. KEEP GRY, BLK, AND WHI LEADS SHORT AND CONNECT AS SHOWN (DO NOT TWIST WITH OTHER LEADS)
4. INSTALL FERRITE BEADS, JENSEN #FB-2, VERY CLOSE TO J1 FOR BEST FM & UHF REJECTION
5. CONNECT PIN 1 OF EACH XLR TO METAL ENCLOSURE AS DIRECTLY AS POSSIBLE (SHORT HEAVY GAUGE WIRE)
6. WHITE WIRE IS CONNECTED TO TRANSFORMER CASE (CASE NEED NOT BE INSULATED FROM ENCLOSURE)

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JT-MB-C USED TO PHANTOM POWER THE REALISTIC PZM MIC

THE JENSEN TRANSFORMER RESULTS IN WIDER BANDWIDTH AND LOWER DISTORTION THAN THE ORIGINAL, AND WILL EASILY WITHSTAND PHANTOM POWER VOLTAGES.



SCHEMATIC IS PER ORIGINAL, EXCEPT THAT RESISTORS ARE ADDED SO THAT +48 VOLT PHANTOM POWER CAN BE USED TO ELIMINATE BATTERY DRAIN. ALTHOUGH THE CIRCUIT WILL OPERATE OK WITHOUT A BATTERY IN PLACE, A GOOD BATTERY MAY BE KEPT INSTALLED AND THERE WILL BE NO DRAIN ON IT AS LONG AS PHANTOM POWER IS AVAILABLE. WITH A GOOD BATTERY INSTALLED, THIS MODIFICATION WILL NOT INTERFERE WITH NORMAL, NON-PHANTOM, OPERATION.

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