

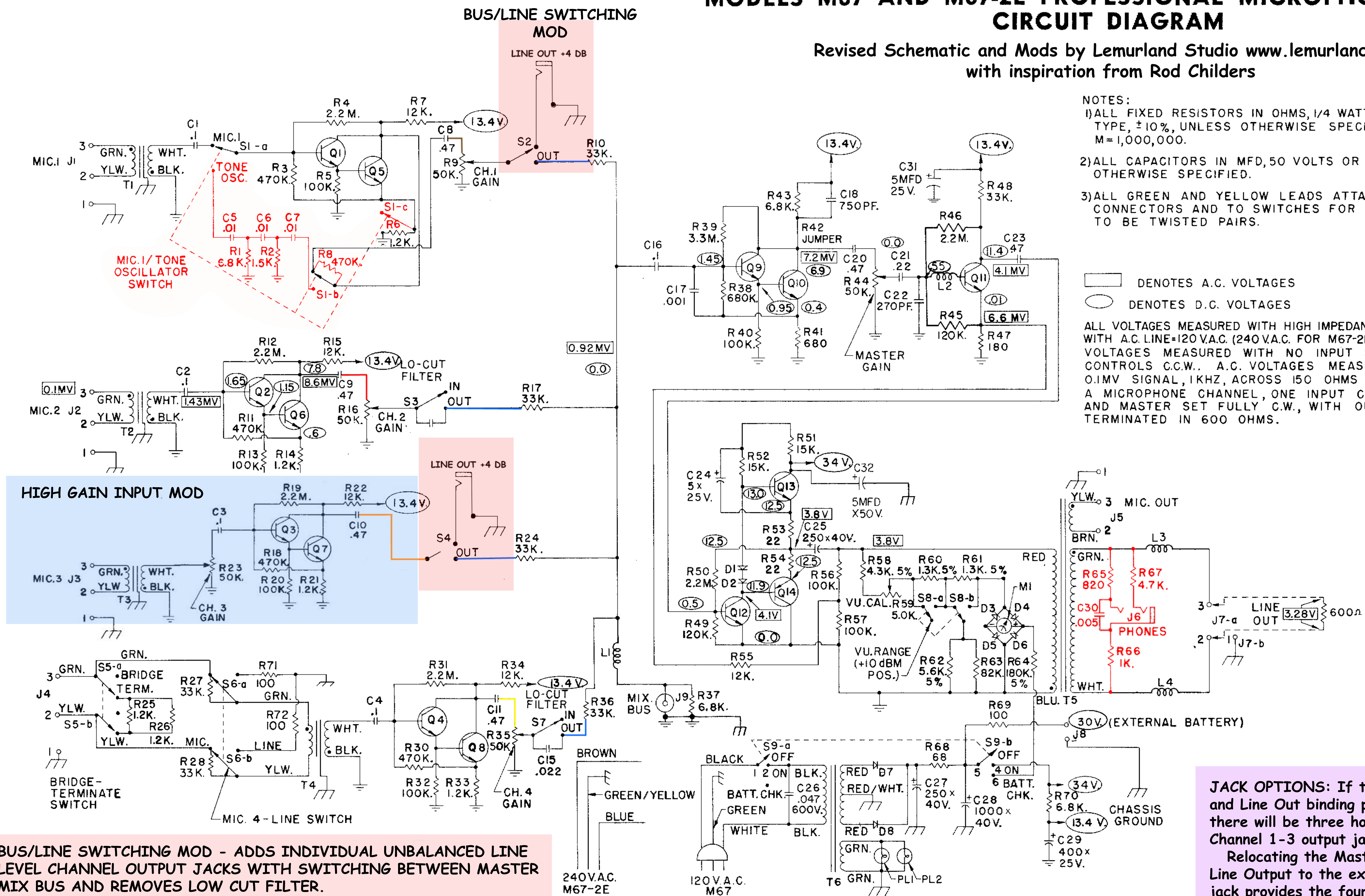
# MODELS M67 AND M67-2E PROFESSIONAL MICROPHONE MIXERS CIRCUIT DIAGRAM

Revised Schematic and Mods by Lemurland Studio [www.lemurland.com](http://www.lemurland.com)  
with inspiration from Rod Childers

- NOTES:
- 1) ALL FIXED RESISTORS IN OHMS, 1/4 WATT COMPOSITION TYPE, ±10%, UNLESS OTHERWISE SPECIFIED. K=1000, M=1,000,000.
  - 2) ALL CAPACITORS IN MFD, 50 VOLTS OR GREATER, UNLESS OTHERWISE SPECIFIED.
  - 3) ALL GREEN AND YELLOW LEADS ATTACHED TO INPUT CONNECTORS AND TO SWITCHES FOR CHANNEL 4 ARE TO BE TWISTED PAIRS.

□ DENOTES A.C. VOLTAGES  
○ DENOTES D.C. VOLTAGES

ALL VOLTAGES MEASURED WITH HIGH IMPEDANCE V.T.V.M. WITH A.C. LINE=120 V.A.C. (240 V.A.C. FOR M67-2E). D.C. VOLTAGES MEASURED WITH NO INPUT SIGNAL, ALL CONTROLS C.C.W.. A.C. VOLTAGES MEASURED WITH 0.1MV SIGNAL, 1KHZ, ACROSS 150 OHMS AT INPUT TO A MICROPHONE CHANNEL, ONE INPUT CHANNEL AND MASTER SET FULLY C.W., WITH OUTPUT TERMINATED IN 600 OHMS.



**BUS/LINE SWITCHING MOD - ADDS INDIVIDUAL UNBALANCED LINE LEVEL CHANNEL OUTPUT JACKS WITH SWITCHING BETWEEN MASTER MIX BUS AND REMOVES LOW CUT FILTER.**

**HIGH GAIN INPUT MOD - ADAPTS INPUT GAIN STAGE FOR LOUD SOURCES**

### Wiring Notes - Stock Color and Location

- BLUE Wires to Mix Bus Input:**  
S2 to R10, S3 to R17, S4 to R24, S7 to R36
- PREAMP OUTPUTS:**  
CH. 1 BROWN (C8 to R9), CH. 2 RED (C9 to R16), CH. 3 ORANGE (C10 to R23), C11 CH. 4 - YELLOW (C11 to R35)

Channels 2 and 4 are shown stock with no mods. Recommend modifying channels 1+2 identically (for stereo use) with Bus/Line Switching, modifying Channel 3 with both High Gain Input and Bus/Line Switching, and leaving Channel 4 stock.

Bypassing and removing the tone oscillator circuit requires that the board be lifted and jumpers added to replace the switch. A few additional leads must be desoldered to lift the board enough to work on the underside. Here's the basic mod:

- Jumper Red to White.
- Jumper Orange to Brown
- Jumper Green to Black with a 1k2 resistor. This is R6 on the Shure schematic.

Cut all other wires that run from the tone osc. switch to the board.

**JACK OPTIONS:** If the Headphone jack and Line Out binding posts are removed there will be three holes available for Channel 1-3 output jacks. Relocating the Master Bus/Channel 4 Line Output to the existing XLR Mic Out jack provides the fourth line output. A MIC/LINE switch can be added to avoid fully disabling the transformer mic level output, if required.

