

LIMITED WARRANTY

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, **TRANSPORTATION CHARGES PREPAID**. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

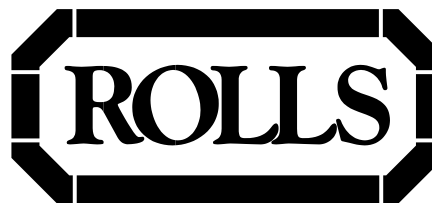
This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. **ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

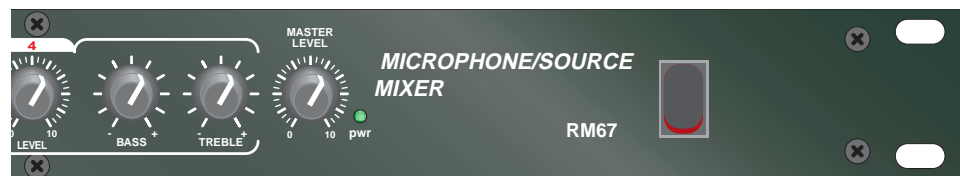
IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



ROLLS CORPORATION
SALT LAKE CITY, UTAH
11/03



RM67 Mic/Source Mixer



FEATURES

- Three XLR balanced inputs with phantom power
- Four stereo Source inputs
- Tone controls for each Microphone input
- Clip indicators for each Microphone input
- Bass and Treble controls for the Source inputs
- 1/4" input for remote volume control
- RCA Record Out
- Master Output Level control
- 1/4" TRS balanced outputs

OWNERS MANUAL

Thank your for your purchase of the Rolls RM67 Microphone/Source Mixer. The RM67 is a single rack space audio mixer with three XLR inputs and four stereo RCA source inputs. Talkover features have been included on Mic 1 and Source 4 for paging and music priority functions.

NOTE: THIS MANUAL ASSUMES THE USER HAS A WORKING KNOWLEDGE OF AUDIO ELECTRONICS, BALANCED AND UNBALANCED CONNECTIONS, AND PROPER SIGNAL LEVEL SETTING.

INSPECTION

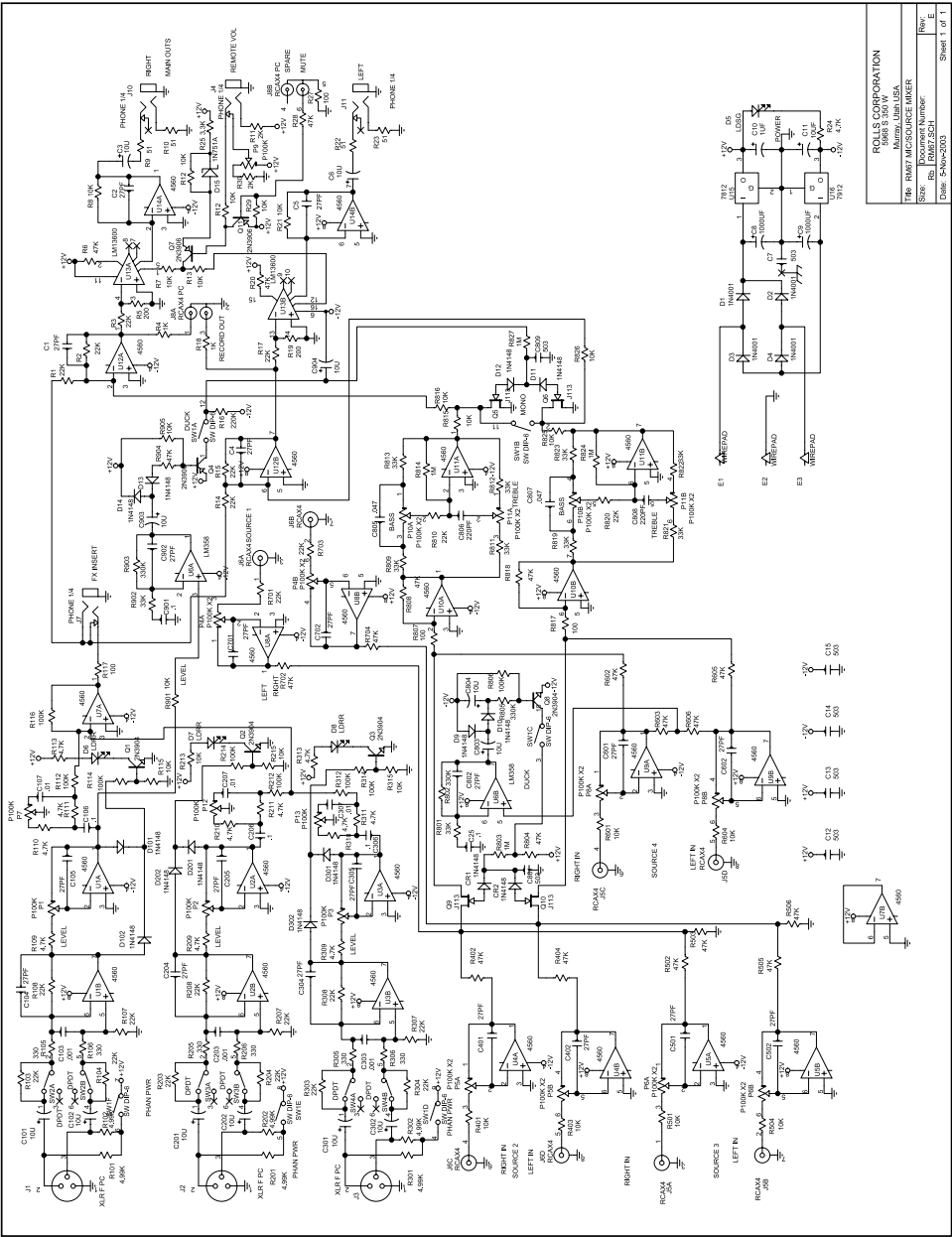
- 1. Unpack and inspect the RM67 box and package.
- If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.
- 2. Please visit our website at www.rolls.com and click on the Register Your Warranty Here button, or complete the Warranty Registration Card and return it to the factory.

APPLICATIONS

Applications for the RM67 include aerobics studios, karaoke lounges, clubs and restaurants, or audio visual applications. Its versatile inputs and outputs make it an important problem solver in many audio situations.

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SPECIFICATIONS

Input Impedance:	Mic:	600 Ohms XLR balanced
	Line:	22K Ohms
	Source:	22K Ohms gold plated RCA
Max Input Level:	Mic Insert:	22K Ohms 1/4" TS unbal.
	Mic:	-14 dBV Mic level +20 dB Line level
	Source:	24 dBV
Connectors:	3: XLR, 6: Stereo RCA, 3: 1/4" TRS, 1: 1/4" TS	
Phantom Power:	+12 VDC	
Output Level:	+17 dBV max	
Output Impedance:	51 Ohms	
Max Gain:	Mic:	60 dB
	Source:	26 dB
Tone Controls:	+/-12 dB 100 Hz Bass	
	+/-12 dB 11kHz Treble	
Nose Floor:	- 80 dB, THD: <.025%, S/N Ratio: 96 dB	
Size:	19" x 1.75" x 6" (48.3 x 4.5 x 15 cm)	
Weight:	5 lbs. (2.3 kg)	

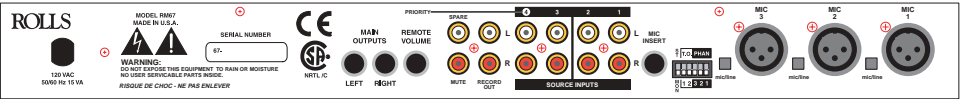
DESCRIPTION

FRONT PANEL



Mic 1 - 3: Adjust the level of signal from the corresponding Mic Input.
clip 1 - 3: LED indicating overload in the channel. The LED lights 3dB below clipping.
TONE 1 - 3: Adjusts the frequency content of the signal in the channel. When the control is turned counter-clockwise, the high frequencies are cut, when the control is turned clockwise, the low frequencies are cut.
Source 1 - 4: Adjust the volume of input from the RCA Source Inputs.
Bass: Adjusts the low frequencies of the Source signals only.
Treble: Adjusts the high frequencies of the Source signals only.
Master Level: Adjusts the overall volume of the RM67 Main Outputs.
pwr: LED indicating power is applied to the RM67 and the unit is on.

REAR PANEL



Mic 1 - 3: XLR inputs for dynamic or condenser microphones, or balanced line-level signals.
Mic/Line Switch: Pads the XLR Mic input by 30 dB when pressed in.
DIP SWITCH: Contains the small switches for engaging Mic 1 - 3 phantom power, the priority (Talk Over) functions, and the Mono/Stereo select.
MIC INSERT: 1/4" TRS insert jack for adding external processing to the Mic signals. Tip = send, ring = return.
SOURCE INPUTS: Stereo RCA jacks, Channels 1 - 4, for connection to stereo sources such as AM/FM tuners, cassette players, cd players, or video players.
RECORD OUT: Stereo RCA jacks, contains all mixed signals before the Remote Volume jack, and Master Level control.
SPARE: This RCA jack is not connected.
MUTE: RCA jack for connection to a tip-to-ground muting circuit.
REMOTE VOLUME: 1/4" TS jack for connection to a remote potentiometer for master volume control. 20K Ohm audio taper potentiometer is recommended.
MAIN OUTPUTS: 1/4" TRS balanced Right and Left Outputs.

Connect low impedance microphones to the Mic inputs. If a paging microphone is being used, connect it to Mic Input 1 so it may be used with the Talk Over function. Connect source signals such as CD players, cassette players or video players to the RCA Source Inputs. If a jukebox is being connected, and you want its signal to mute the other source signals, connect it to Source input 4.

Remote Volume Control

To control the overall volume of the RM67 in a remote location, wire a 100K ohm Linear Taper potentiometer to a 1/4" Tip-Ring-Sleeve plug as shown in Fig. 1.

Mic Insert

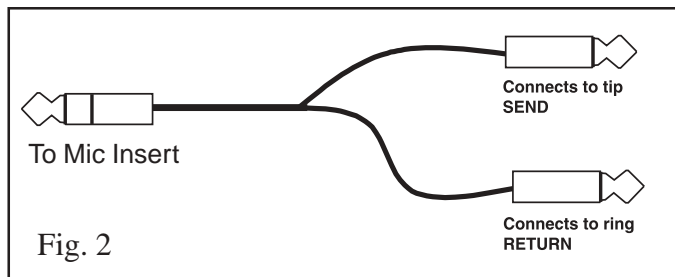
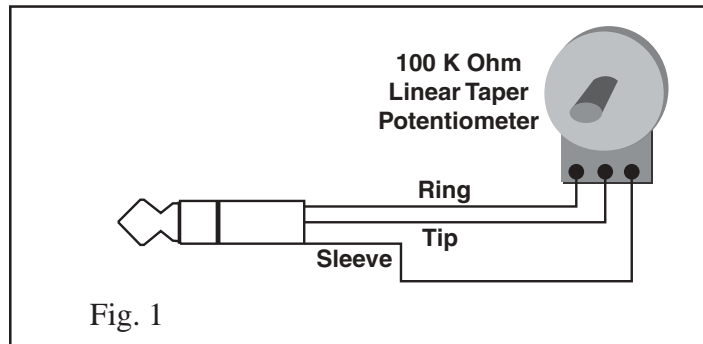
To connect a signal processor to the RM67 microphone signal(s), use an insert plug, or cable wired as shown in Fig. 2.

Connect the Main Right and Left outputs to your power amplifiers. The RM67 output jacks will accommodate balanced or unbalanced connections. For unbalanced operation use 1/4" Tip Sleeve jacks, for balanced operation use 1/4" Tip Ring Sleeve jacks. If a 1/4" TRS to XLR cable is needed, wire the Tip of the 1/4" jack to pin 2 of the XLR, the Ring to pin 3, and the Sleeve to pin 1 or the shield.

Mute

To mute all audio, connect an RCA plug to your muting circuitry. When the tip is shorted to the ground - all audio is muted.

Connect the RM67 to a properly grounded AC outlet.



DIP SWITCH SETTINGS

- If a microphone requires phantom power, move the Mic channel's corresponding PHAN DIP switch to the down position. This applies 12 volts dc phantom power to the indicated microphone.

- Talkover switch 1 (T.O. 1), when in the down position, all program material on all inputs will be "ducked" or muted when a signal is present at Mic 1. This function is used for paging.

- Talkover switch 2 (T.O. 2), when in the down position, Source 1,2, and 3 will be "ducked" or muted by the signals at Source 4.

This function is for jukebox priority. With a jukebox connected to Source input 4, and the Talkover switch 2 on (down), the other Source input signals such as background music, will be muted and only the jukebox will be heard.

- The Mono/Stereo switch selects the output mode. When the switch is up, the unit is in stereo mode. When the switch is down, the stereo signals are mixed to mono and sent to both the Right and Left Main output jacks. Either jack can be used as a mono output.

Adjust the Microphone levels for maximum input signal without clipping, and for a comfortable listening level. Adjust each Source level for a desired listening level.