

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 PRE-PAID. 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.

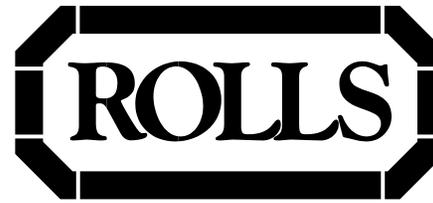
This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility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

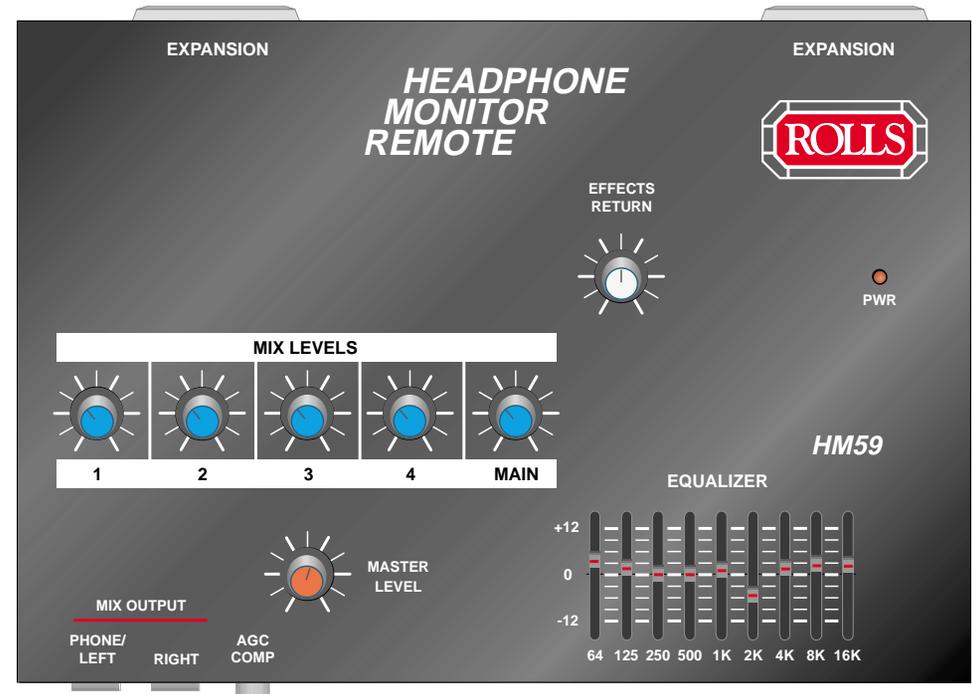
IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may 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
3/00



HM59 Headphone Monitor Remote



NOTE: THIS UNIT REQUIRES A ROLLS HM60 OR HM57 FOR OPERATION.

OWNERS MANUAL

Thank you for your purchase of the Rolls HM59 Headphone Monitor Remote. This unit, along with either the HM60 Headphone Monitor System or HM57 Headphone Monitor Interface, allows you to mix four mono signals with two stereo signals for your own personal monitoring needs. It includes equalization and AGC compression.

Please read the following manual carefully to get the best results from your HM59.

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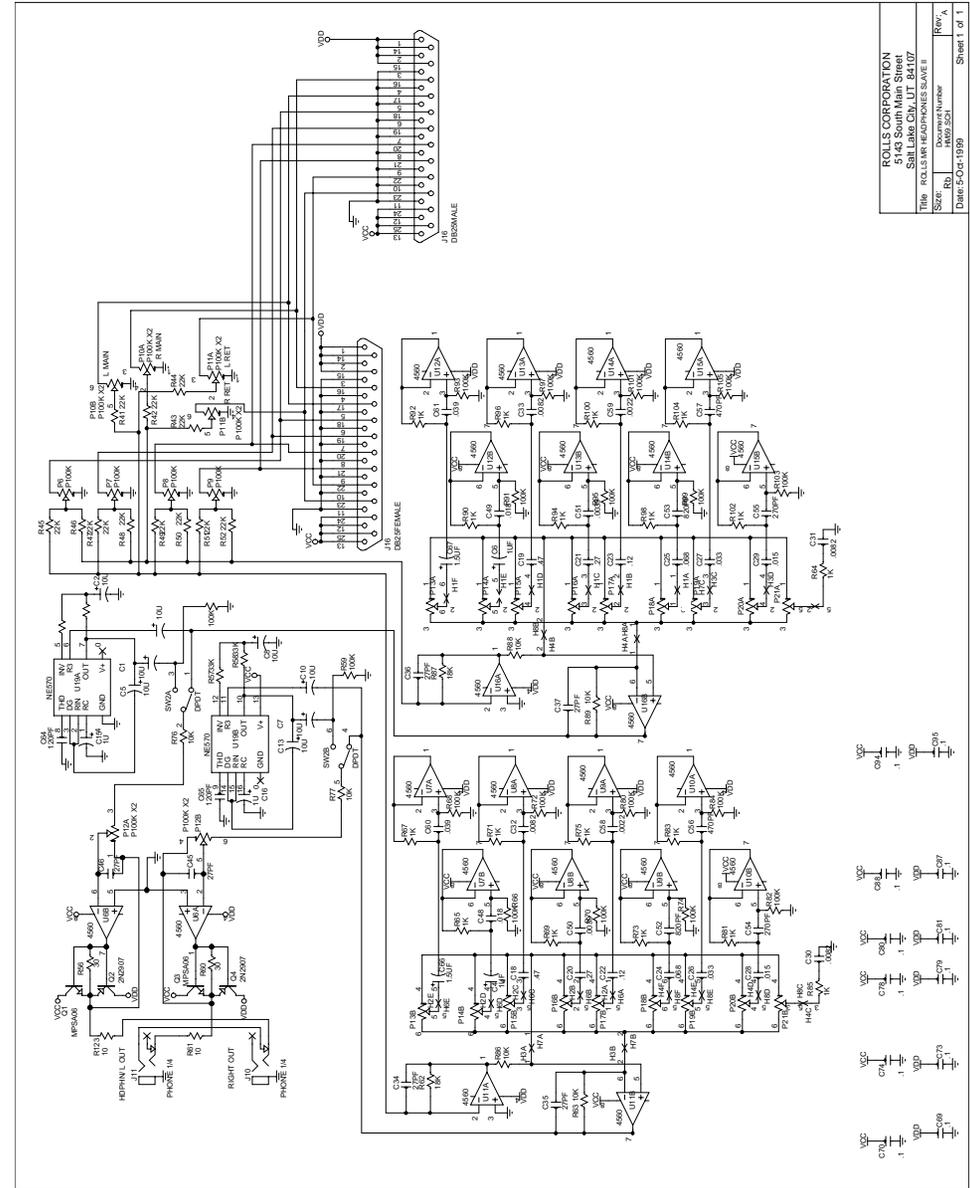
INSPECTION

1. Unpack and inspect the HM59 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.

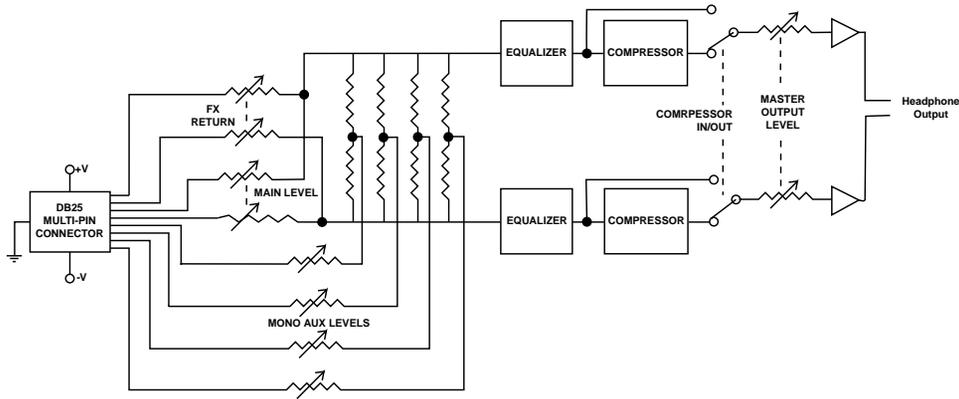
2. Please complete the Warranty Registration Card and return it to the factory.

SPECIFICATIONS

Output Impedance:	10 Ω
Sensitivity:	Variable, -10 to +4 dB for rated output
Power Output:	>500 mW at 32 Ω (>150 mW at 600 ohms) 20 Hz to 20 KHz.
Connectors:	Outputs: 1/4" TRS stereo headphone jack, DB25 jack
Distortion:	0.008% THD full power @ 1 KHz; 0.05% THD 20Hz to 20 KHz
Dynamic Range:	Greater than 96 dB
Freq. Response:	20 Hz to 20 KHz, +0, -1 dB 400 mW output
Power Requirement:	Receives power from HM60 or HM57
Dimensions:	6.25"H x 9.125"W x 1.375"D
Weight:	2.5lbs.



ROLLS CORPORATION
 5143 South Main Street
 Salt Lake City, UT 84107
 Title: RCL59-HP-REMOTES-SCHEM I
 Size: 11.000 x 8.500
 Date: 5-Oct-1999
 Rev: A
 Mod: 201
 Sheet 1 of 1



TOP PANEL

EXPANSION PORTS: Male and Female DB25 parallel port jacks. The output Expansion jack is female and is located on the right side of the top panel. The input Expansion jack is male and is on the left side of the top panel.

FRONT PANEL

NOTE: All input signals described below are connected to either the HM60 or HM57. Refer to that unit's owners manual for proper input connection.

EFFECTS RETURN: Adjusts the level of stereo signal returning from a signal processor connected to an HM60.

MIX LEVELS; 1 - 4 and Main: Adjust the level of input signal from the corresponding input.

MASTER LEVEL: Adjusts the amount of mixed signal being sent to the Mix Output jacks.

EQUALIZER: These slider controls adjust the level of the indicated frequency. For example, the 64 slider boosts or cuts the 64 Hertz component of the output signal by + or - 12 dB. The lower frequencies; 64 to 250 correspond to bass frequencies, the 500 to 2K sliders correspond to mid frequencies, and the 4K to 8K sliders adjust the high or treble frequencies.

PWR: Indicates that the HM60 is connected to a power source and is on.

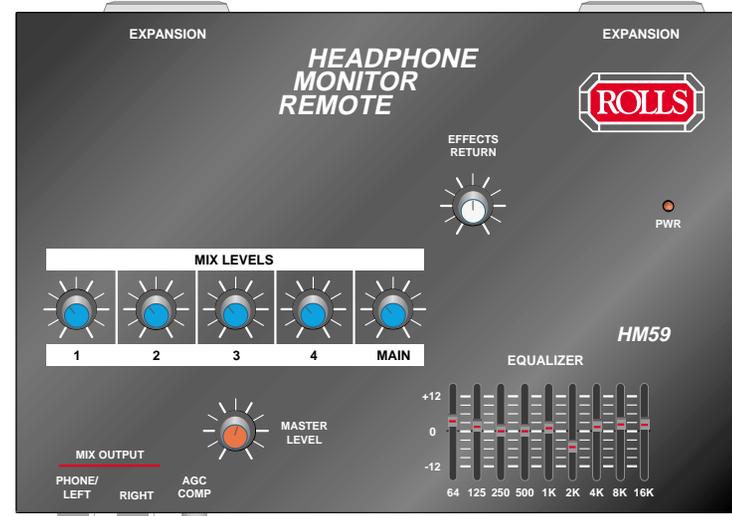
BOTTOM PANEL

MIX OUTPUT:

Phone/Left: For connection to a set of stereo headphones. If a mono Tip-Sleeve plug is connected, this jack becomes the Left Output.

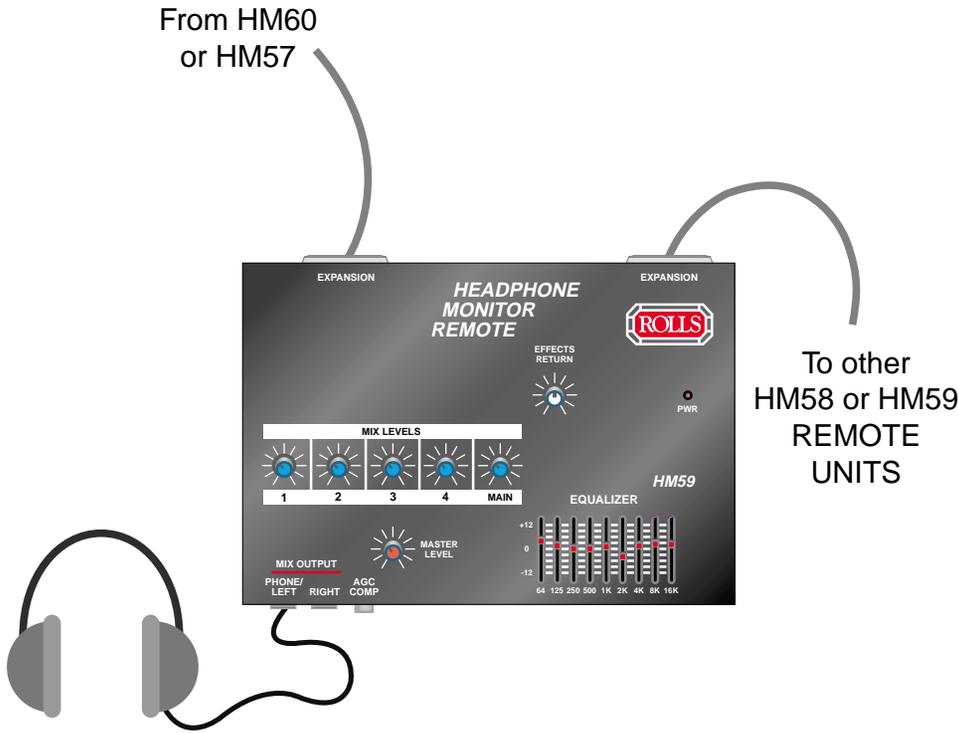
Right: Contains the Right portion of the Output signal. Do not use this jack if you're connecting stereo headphones to the Phone/Left jack.

AGC COMP: This switch engages the Automatic Gain Control compressor.



CONNECTING THE HM59

Shown below is a connection diagram for the HM59. The male jack on the left is the Input, and the female jack on the right is the Output. Connect from the female OUTPUT expansion jack of either the HM60 or HM57 via the DB25 cable to the male INPUT Expansion jack on the HM59. The female OUTPUT Expansion jack on the HM59 may then be connected to another HM59 or HM58.



OPERATING THE HM59

After proper connections are made, begin sending signals to the HM60 or HM57, whichever is connected to the signal sources and your HM59.

- Set the HM59 Master Level control at approximately 12 O'clock. Carefully bring up the 1-4 and Main Mix Levels until a desired mix is achieved.
- Adjust the Equalizer as needed. The 64, 125, and 250 Hz sliders control the lower or bass frequencies, the 500, 1K, and 2K sliders adjust the middle frequencies, the 4K, 8K, and 16K sliders vary the high or treble frequencies.
- The AGC compressor keeps transient signals like pops or feedback under control, so they won't damage your hearing. It also slightly brings up low-level signals. *NOTE: Much of the signal content may not be compressed, you may not notice any effect. Only very high level or low level signals are effected.*
- If using external effects processors, make sure they are properly connected to the HM60, and the levels are set properly. Refer to the HM60 owners manual, as well as the operating manual of the effects processor.

If you have an effects processor connected to the HM60 control unit, the HM59 Effects Return adjusts the level of the effected signals to your headphone mix. Note that the Effects Sends 1 - 4 and MAIN on the HM60 determine the mix of signals sent to the effects processor. The HM59 FX Return control will only adjust the level of that mix. In other words, the signals present at the Right and Left Effects Return jacks on the HM60 will be the signals adjusted by the FX Return control on the HM59.

