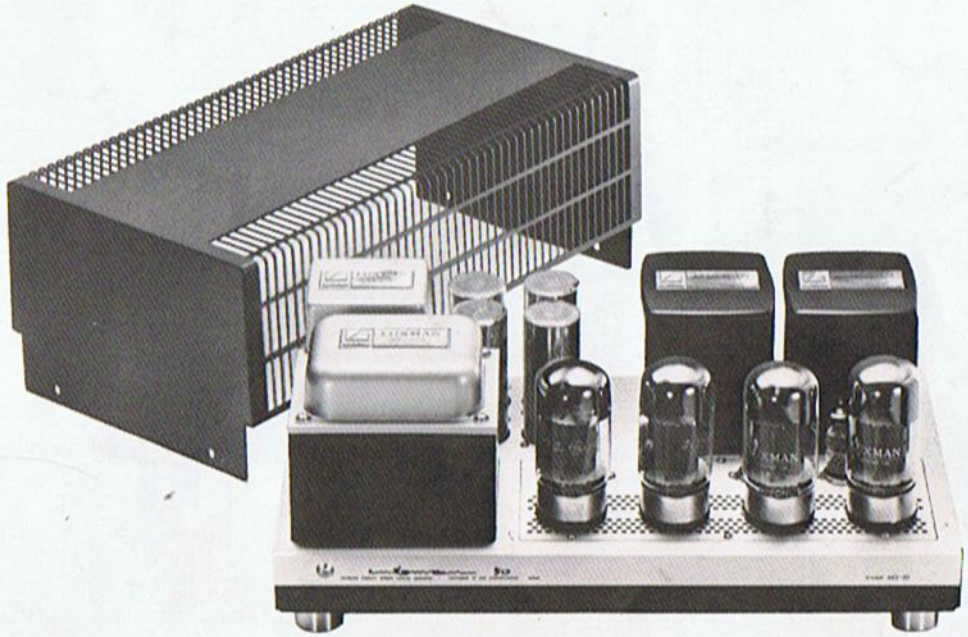
LUXMAN

MQ-50 OWNER'S MANUAL



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WARNING: To prevent fire or shock hazard do not expose this appliance to rain or moisture.


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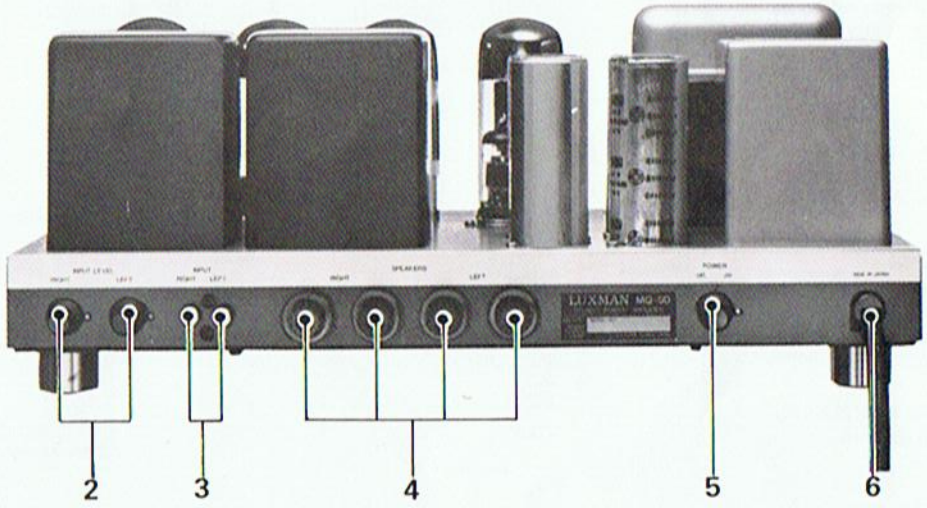
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SWITCHES AND TERMINALS

1. Pilot Lamp

Turn on the power switch and the Pilot lamp will light up, indicating that the power is on.

2. Input Level Volume Controls

Set these controls to the appropriate position according to the output voltage of the control amplifier connected to the MQ-50. For example, if the volume changes drastically whith manipulation of the volume control on the control amplifier, adjust the Input Level controls to the left until the gain of the power amplifier (MQ-50) is sufficiently attenuated. An 11-point click, A-curve volume pot is used for the Input Level Volume of the MQ-50. Generally speaking, with the A-curve volume pot the sound volume perceived by the human ear corresponds to the degree of rotation of the volume knob. This means that the volume will change in an essentially linear fashion as perceived by the human ear when the volume controls are manipulated.

The Input Level controls of the MQ-50 are independent for the right and left channels.

3. Input Jacks

Connect the output of the control amplifier to the Input jacks. Connect the left channel output to the the Input jack marked "LEFT" and that for the right channel to the one marked "RIGHT" For connection, use the cords with pin-plugs attached to both ends, commonly referred to as pin-plug cords. When the output impedance of the control amplifier is high, the length of the pin-plug cords should be made as short as possible.

4. Speaker Terminals

Connect your speaker systems to the Speaker Terminals. The two Speaker Terminals marked "LEFT" are for the left channel, and those marked "RIGHT" are for the right channel.

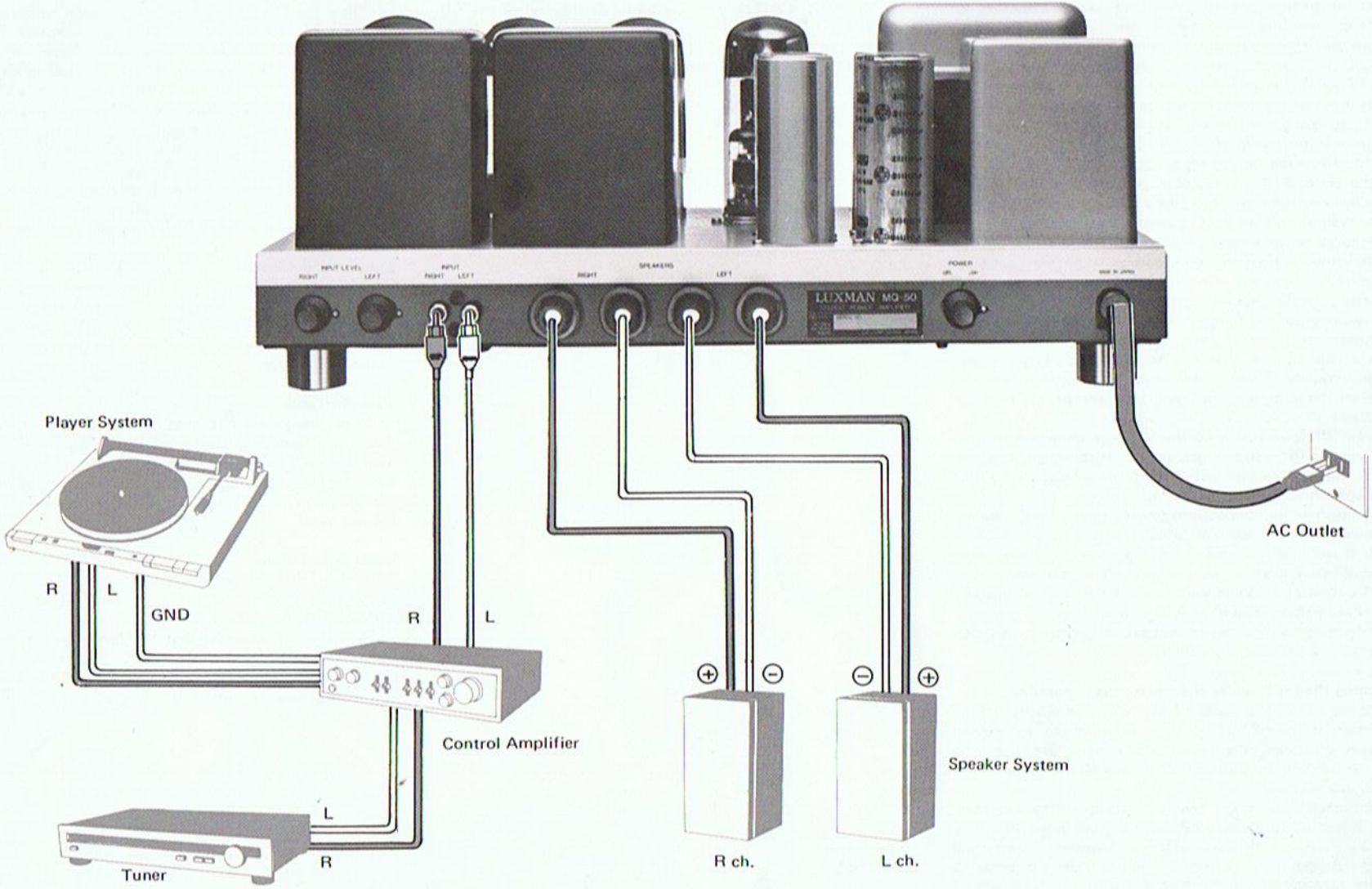
Each set of Speaker Terminals has a red (+) terminal and a black (–) terminal. Connect the "+" terminal of your speaker system to the red (+) terminal of the MQ-50 and connect the "–" terminal of your speaker system to the black (–) terminal of the MQ-50.

5. Power Switch

Turn on the Power switch, and the MQ-50 will be put into the operational condition in approximately 10 seconds.

6. AC Power Cord

Connect the AC plug into your household power outlet.


LUXMAN MQ-50
Player System
R
L
GND
R
L
Control Amplifier
L
R
Tuner
AC Outlet
Speaker System
R ch.
L ch.

CONNECTION PROCEDURES

Connecting Speaker System

A stereo speaker system comes in a pair; one speaker for the left channel and the other for the right channel. Facing from the listener's position, connect the left-hand speaker to the "LEFT" speaker terminals and the right-hand speaker to the "RIGHT" speaker terminals. Be sure that the (+) and (–) terminals of the speakers are connected correctly to the red (+) and black (–) speaker terminals of the MQ-50. The outer speaker terminals of the MQ-50 are red (+), and the inner terminals of the MQ-50 are black (–).

If the (+) and (–) connections are carried out incorrectly for the left and right channels, the sound reproduction of the speaker system will be 180° out of phase, causing the bass reproduction to deteriorate, the sound image to be blurred etc. In other words, this will lead to improper stereo reproduction.

When connecting speaker cables to the speaker terminals, carefully carry out the following procedure, taking care about short-circuit.

(1) Use a pair of wire strippers or a razor blade to remove approximately 10mm of the insulation sheathing from the ends of the speaker cables, and twist the strands together carefully.

(2) Loosen all four knobs of the MQ-50's speaker terminals by twisting them to the left, and insert the speaker cables. Then, tighten the connections firmly by twisting the four speaker terminal knobs to the right.

This finishes the connections between the MQ-50's speaker terminals and the speaker cables. Naturally, your speaker system will be connected to the ends of the speaker cables. When carrying out this procedure, be careful not to short-circuit any connections, and be sure not to mistake the (+) and (–) connections.

Since the speaker cables are not supplied with the MQ-50, they must be purchased separately.

Connecting the Input Jacks and the Control Amplifier

Connect the output jacks of the control amplifier to the input jacks of the MQ-50 by using pin-plug cords (shielded cable with pin plugs attached at both ends). When carrying out this procedure, be careful not to confuse the left and right channel connections.

When using the MQ-50 together with a control amplifier having low output impedance, you do not have to worry about the length of the pin-plug cords. However, when using the MQ-50 together with that of high output impedance to minimize attenuation of the high frequencies, the length of the pin-plug cords should be made as short as possible.

Connecting the Power Supply

Connect the AC plug (to be found at the end of the AC power cord) into your household power outlet. Now, turn on the power switch. The pilot lamp will light up, and the MQ-50 will be put into the operational condition in about 10 seconds.

CAUTIONS

Placement of the MQ-50

Since the MQ-50 is a high output tube amplifier, be sure to place it in a location with sufficient ventilation, so that it can effectively dissipate excess heat. Most of the power consumed by the MQ-50 will be dissipated in the form of heat radiation. It would be ideal if both the top and bottom of the MQ-50 were completely uncovered. However, at least be certain that the flow of ventilating air is free and smooth.

However, even if the dissipation of heat is carried out smoothly, placement of the MQ-50 in such locations having direct sunlight, heat radiation from heaters, high humidity or excessive dust may result in thermal damage to the internal parts. Avoid placing the MQ-50 in such locations.

Speaker Connections

When connecting the MQ-50 to a speaker system, be sure that the (+) and (–) leads of the speaker cable is not short-circuited. If a high output signal is produced with the speaker cables short-circuited, excessive current will flow into the MQ-50's output circuit, possibly causing malfunctions.

Vacuum Tubes

When the power is turned on, the heaters of the vacuum tubes may flash brightly for an instant, however, this is not a malfunction. This occurs because of differences in the heater construction according to different vacuum tube models and manufacturers. This will not affect the malfunction rate or the life-span.

Input Connections

Be sure that the power switch of the MQ-50 is off before connecting a control amplifier to the MQ-50, as otherwise a loud, irritating noise will be produced.

Additionally, be sure that the pin-plugs for the connections are fixed firmly into the MQ-50's input jacks. If the pin-plug is not sufficiently grounded, it will cause hum, noise and general deterioration in the S/N ratio.

Adjustments

Before the delivery, the MQ-50 has been perfectly adjusted, assuring problem-free operation for a long period of time. However, readjustments will be required when the vacuum tubes are replaced. Naturally, some users would like to readjust the MQ-50 themselves. However, the MQ-50 requires adjustment of the DC balance, the bias for optimum operation of the output tubes, and the AC balance for minimum distortion (by means of oscilloscope and distortion meter). Therefore, be sure to contact a Luxman service station or a registered Luxman dealer for the above readjustments.

Metal Bonnet

Although in this Owner's Manual all the explanations are made without the metal bonnet, since vacuum tubes operate at high temperatures and high voltages, be sure to use the MQ-50 with the metal bonnet in place to prevent fire, shocks etc.

When Turning the Power On Again

Turning the power on directly after having turned it off will provide excessive current to the power tubes, imposing considerable loads on the tubes.

Therefore, wait for at least 1 minute before turning on the power again.

Vacuum Tubes	6550A (4), 12AU7 (2), 6AQ8 (2)
Power Output	50 W + 50W (8 ohm)
Harmonic Distortion	Less than 0.2% (1 kHz, 1W)
	Less than 1.0% (1 kHz, 50W)
Frequency Response	20 Hz ∿ 30,000 Hz
	(within −1 dB, 1W)
Input Sensitivity	1V
Input Impedance	100K ohm
S/N (IHF A-Weighted)	Higher than 98 dB
Power Requirement	AC 220V (50 Hz/60 Hz)
Dimension	410(W) x 175(H) x 250(D) mm
Weight	18.3 Kg

LUXMAN

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