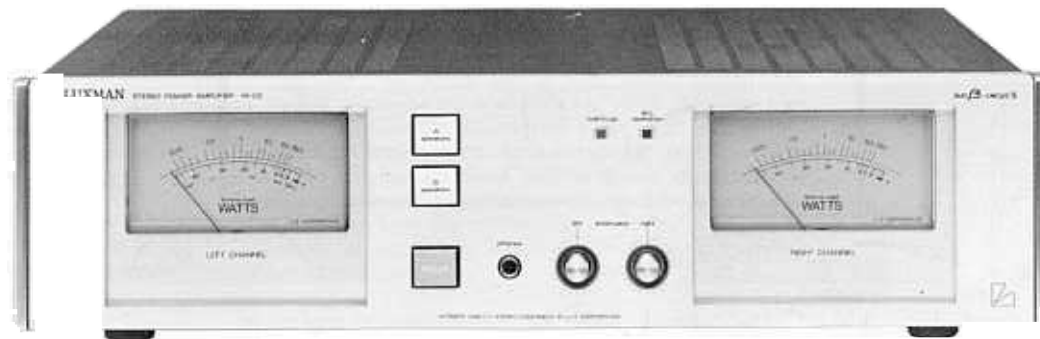


LUXMAN

M-02 OWNER'S MANUAL



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WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating instructions in the literature accompanying the appliance.

SAFETY INSTRUCTIONS

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Heed Warning

All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions

All operating and use instructions should be followed.

5. Water and Moisture

The appliance should not be used near water -- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Carts and Stands

The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7. Wall or Ceiling Mounting

The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

8. Ventilation

The appliance should be placed where it is well ventilated. The appliance should not be placed on a bed, sofa, rugs or similar surface or in an enclosure such as a bookcase or cabinet where there is a little or no ventilation.

9. Heat

The appliance should be placed away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. Grounding or Polarization

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to the plug, receptacle, and the point where the cord meets the appliance.

13. Cleaning

The appliance should be cleaned only as recommended by the manufacturer.

14. Power Lines

An outdoor antenna should be located away from power lines.

15. Outdoor Antenna Grounding

If an outdoor antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NEPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection of grounding electrodes, and requirements for the grounding electrode.

- Use No. 10 AWG (5.3mm²) copper wire, No. 8 AWG (8.4mm²) aluminum wire, No. 17 AWG (1.0mm²) copper clad steel wire, bronze wire or larger wire as ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.8mm²) copper or equivalent when separate antenna-grounding electrode is used.

16. Non-use Periods

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

17. Object and Liquid Entry

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

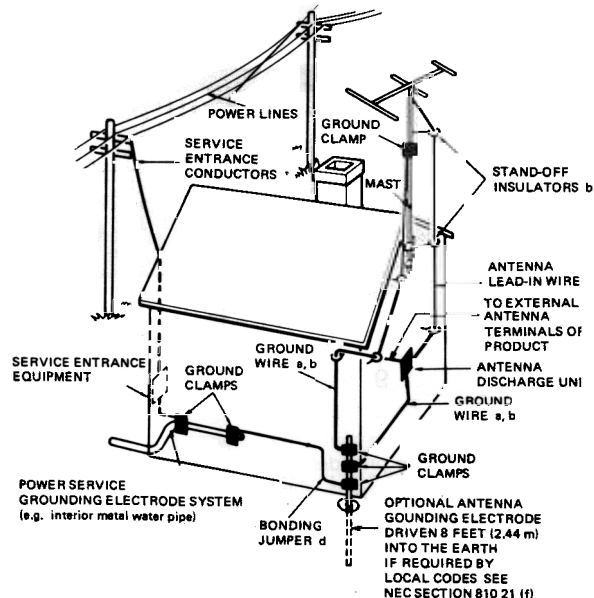
18. Damage Requiring Service

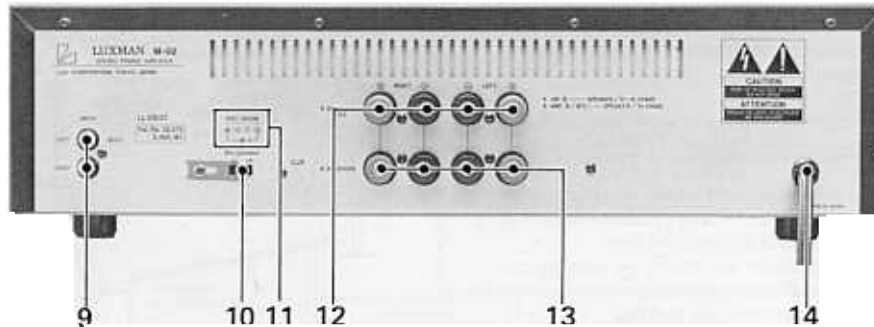
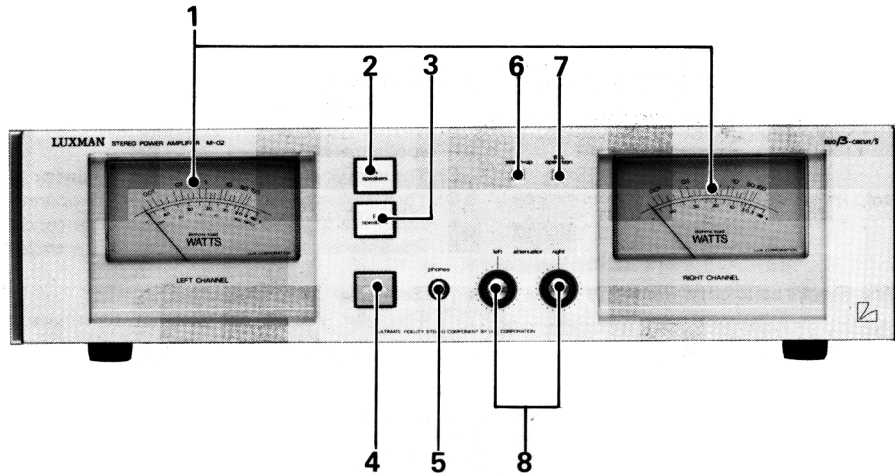
The appliance should be serviced by quantified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

19. Servicing

The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.





1. Peak Meters

Two peak meters are provided for left and right channels. The top calibration is in watts, the second in decibels, and the third one for the left channel peak meter only is in watts for use in monaural mode.

2. 3. Speaker Select Switches

Allow you to listen to (1) two speaker systems connected when both switches are depressed; (2) one of the two speaker systems when either one of the switches is depressed; (3) or, no speaker system when neither of the two is depressed for private listening through a set of headphones.

Note: See page 3, 4, and CONNECTIONS AND OPERATION, Speaker Connections section on page 5 for detailed connection procedures.

4. Power Switch

The push-type switch will turn the power on and off. When it is depressed and the power is on, the peak meters (1) and warm-up indicator (6) will illuminate. The time delay muting circuit will be on for approximately 7 seconds. The warm-up indicator will go off when the amplifier is fully warmed up.

5. Phone Jack

For private listening, connect a set of stereo headphones to this jack where output signal is always on. Release the Speaker Select Switches to disconnect the speakers while listening through the headphones.

6. Warm-up Indicator

When the power is turned on, the LED illuminates. When the amplifier is fully warmed up to provide optimum sonic quality, the illumination will be off.

7. BTL (Monaural) Indicator

When the wiring connection is made for monaural operation of the M-02, the indicator will be on.

8. Attenuators

For the left and right channels, the attenuators control the input signal levels. When both attenuators are turned clockwise all the way, the signal levels are maximum (0 dB); when they are turned all the way counterclockwise, the signal levels are minimum ($-\infty$).

When your M-02 is used as a monaural amplifier, its input signal level is controlled by the left attenuator.

9. Input Terminals

Accept output from pre-amplifier, noise-reduction, graphic equalizer, or other system.

10. BTL (bridged amplifier) Switch

When the switch is in the "on" position, the indicator on the front panel will be on. The amplifier will then be in the bridged, monaural mode.

11. BTL (Monaural) Connection Diagram

For monaural operation of M-02, follow the diagram for speaker connections.

12. 13. Speaker Terminals

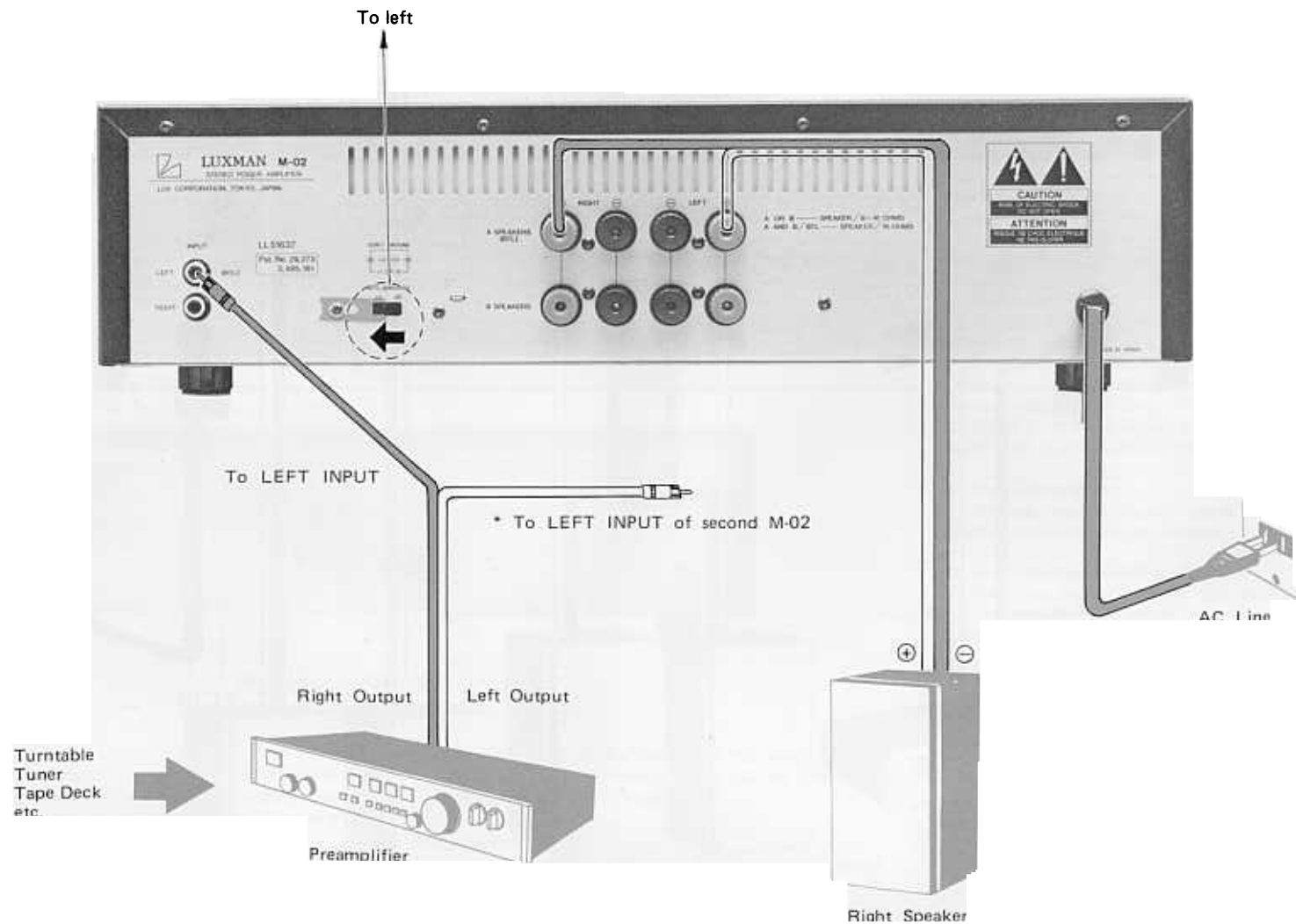
Accept one 2-speaker system for stereophonic sound reproduction. For monaural sound reproduction, accept one speaker. (See "Speaker Connections").

14. AC Power Cord

Connect the plug to an AC power supply source.

<MONAURAL>

(Bridged)



Stereo Operation

Input Terminals

1. Connect the output terminals of a pre-amplifier, noise-reduction, graphic equalizer, or other audio system to the input terminals of the M-02.
2. Adjust the left and right input sensitivity with the left and right attenuators.

Speaker Connections

The M-02 accepts two sets of 2-speaker systems (A and B). Connect at least one pair of speakers for stereophonic sound reproduction. Using heavy-gauge quality speaker cables (available at most hi-fi stores) but allowing the shortest possible length required, make connection between the right speaker to the right speaker terminals, the left speaker to the left speaker terminals. Make sure your first 2-speaker system is connected to the "A SPEAKERS" terminals on the M-02, matching left to left, right to right, (+) to (+), and (-) to (-), as the incorrect connections would result in improper phase and subdued low frequency response. Follow the steps above for connection of your second 2-speaker system, but this time to the "B SPEAKERS" terminals.

Wiring Connection

1. Cut away about 15mm of insulating shield from the end of speaker cables and twist the exposed loose wires.
2. Turn the knob on the speaker terminals counter-clockwise. Insert the twisted bare speaker wire into the opening inside. Secure the wire by turning the knob clockwise until it is tight.

AC Power Cord

Plug into an AC power supply source. If any noise or static is noticed, unplug and plug in again reversing the polarities.

Monaural Operation

Input Terminals

1. Connect the right channel output from your pre-amplifier to the LEFT (BTL) INPUT terminal of M-02.
2. If you have another M-02 for the left channel, connect the left channel output from your pre-amplifier to the LEFT (BTL) INPUT terminal of your second M-02.
3. Adjust the input sensitivity with the left attenuator on both M-02's.
4. Set the BTL operation switch on both M-02's to "ON".

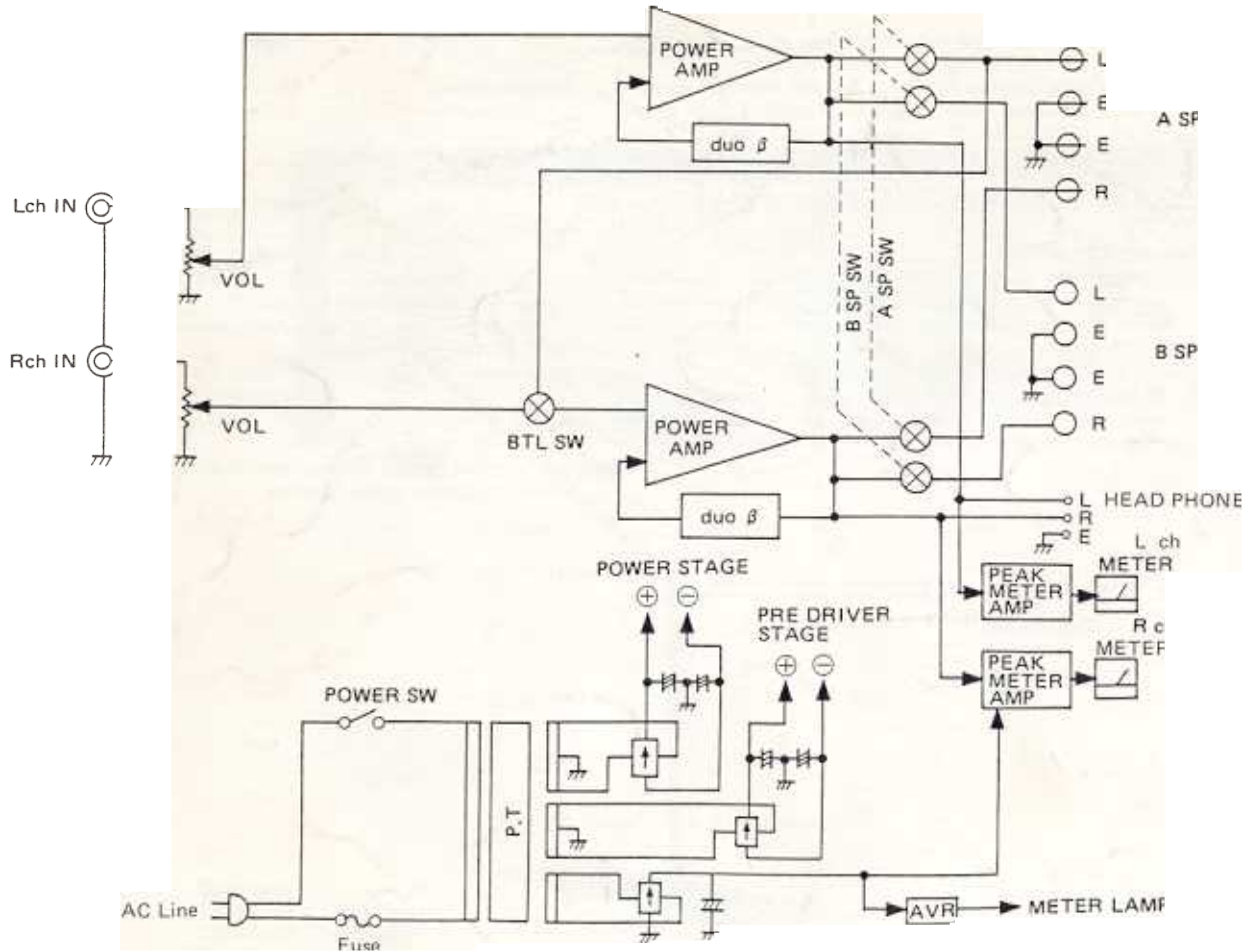
Speaker Connections

1. Connect the right channel speaker to your first M-02. Using a heavy-gauge quality speaker cable (available at most hi-fi stores), connect the (+) speaker lead to the red LEFT speaker terminal, and the (-) speaker lead to the red RIGHT speaker terminal on the M-02.
2. If you are using another M-02 for left channel, connect your left channel speaker leads to the second M-02 following the steps above.

Power Output	140W + 140W (8 ohms, both ch. driven 20 Hz – 20 kHz)
	150W + 150W (8 ohms, both ch. driven 1 kHz)
Dynamic Power	190W (8 ohms) 290W (4 ohms) 410W (2 ohms)
BTL Power	300W (8 ohms)
Total Harmonic Distortion	no more than 0.025% (8 ohms, 140W/ch., 20 Hz – 20 kHz)
Rated I.M.	no more than 0.025% (8 ohms, 140W/ch., 60 Hz : 7 kHz = 4 : 1)
Frequency Responce	5 Hz – 100 kHz (-1 dB)
Signal-to-Noise Ratio	better than 120 dB (IHF-A weighted input short circuit)
Input Sensitivity/Impedance	1.2V/45 kohms
Dimensions	453(W) x 141(H) x 336(D) mm (17-13/16" x 5-9/16" x 13-1/4")
Weight	14.5 kg (31.9 lbs.)

For product improvement, specifications and design are subject to change without notice.

BLOCK DIAGRAM



LUXMAN

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