Model SR-3600

OWNER'S MANUAL

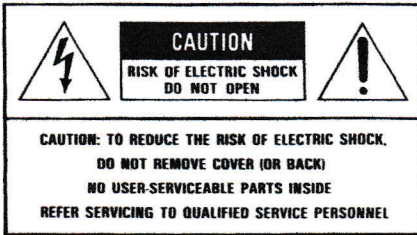## STEREO RECEIVER
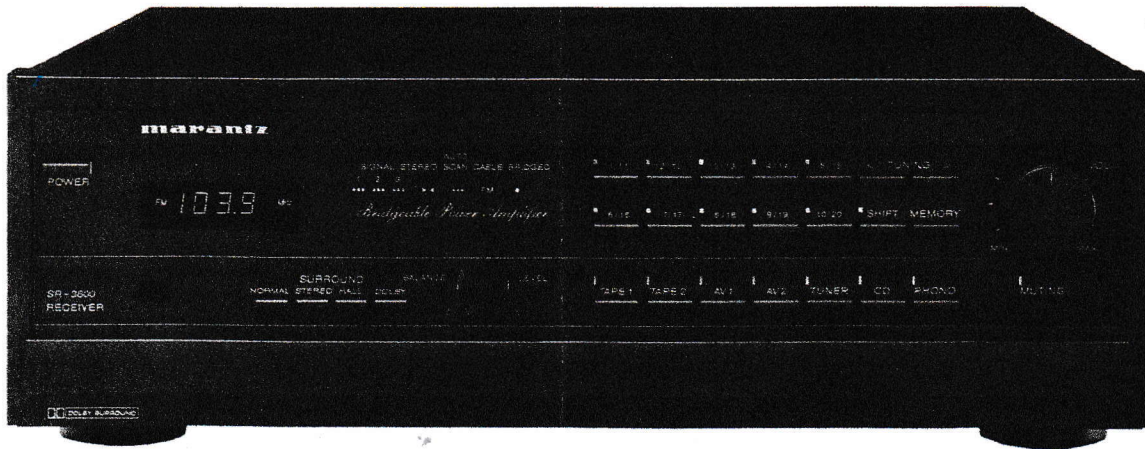
Remote Replaced (warranted) 10/14/92

marantz

SAFETY INSTRUCTIONS

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

CAUTION
**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL**

The lighting 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 and maintenance (servicing) instructions in the literature accompanying the appliance.

"Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

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 Warnings** — 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, and the like.

6. **Carts and Stands** — The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING

S3125A

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 situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. **Heat** — The appliance should be situated 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** — The precautions that 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, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **Cleaning** — The appliance should be cleaned only as recommended by the manufacturer.

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

15. **Object and Liquid Entry** — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. **Damage Requiring Sevice** — The appliance should be serviced by qualified factory authorized service personnel when:
A. The power-supply cord or the plug has been damaged; or
B. Objects have fallen, or liquid has been spilled into the appliance; or
C. The appliance has been exposed to rain; or
D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
E. The appliance has been dropped, or the enclosure damaged.

17. **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 factory authorized service personnel.

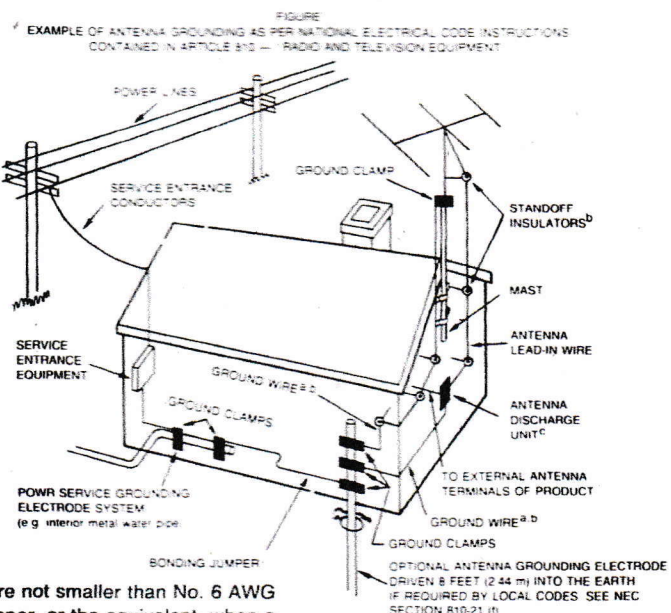**Power Lines** — An outdoor antenna should be located away from power lines.

Outdoor Antenna Grounding — If an outside 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. Section 810 of the National Electrical Code, ANSI/NFPA 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 to grounding electrodes, and requirements for the grounding electrode. See Figure.

a Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

b Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4—6 feet (1.22—1.83 m) apart.

c Mount antenna discharge unit as close as possible to where lead-in enters house.

d Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21 (j).

FIGURE
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 — RADIO AND TELEVISION EQUIPMENT

POWER LINES
SERVICE ENTRANCE CONDUCTORS
GROUND CLAMP
STANDOFF INSULATORS b
MAST
ANTENNA LEAD-IN WIRE
ANTENNA DISCHARGE UNIT c
SERVICE ENTRANCE EQUIPMENT
GROUND WIRE a b
GROUND CLAMPS
POWR SERVICE GROUNDING ELECTRODE SYSTEM (e.g. interior metal water pipe)
S2896
BONDING JUMPER
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND WIRE a, b
GROUND CLAMPS
OPTIONAL ANTENNA GROUNDING ELECTRODE DRIVEN 8 FEET (2.44 m) INTO THE EARTH IF REQUIRED BY LOCAL CODES SEE NEC SECTION 810-21 (f)

FOR U.S.A. ONLY

1

FOREWORD

To obtain optimum performance and enjoyment from your Model SR-3600 please study these instructions carefully.

Refer to the figure 2 on page 4. The callout numbers correspond to those found in this manual. All references to the connections and controls are printed in **BOLDFACE** type as they appear on the unit.

REAR PANEL CONNECTIONS

Figure 1 shows the location of the input and output jacks on the rear panel. (Front panel controls and jacks will be discussed later).

The stereo pairs of shiny round jacks such as those used for the phono inputs are called "RCA phono jacks" and are designed to accommodate shielded audio cables outfitted with "RCA phono plugs". Appropriate cables of various lengths are available at your Marantz dealer. Lengths of up to 24 ft. may be used. If it is necessary to purchase cable for your installation, we suggest you first arrange your components in the desired position, and then with a measuring tape determine how much cable will be needed. This will ensure that you do not underestimate the lengths required for a neat, attractive installation.

To avoid confusion, connect one cable at a time between the unit and the other components of your system. This is the safest way to avoid cross-connecting channels or confusing source outputs with inputs.

SPEAKERS

Use speaker systems with impedance ratings of 8-16 ohms. When you hook up 2 sets of speaker systems, be sure to use speakers with ratings of 8-16 ohms.

Before hooking up your speaker system, check its impedance, which should be indicated either on the back of the speaker, or in its instruction manual.

HOOKING UP SPEAKERS

On the rear panel there are two sets of speaker terminals, SPEAKER A and B, to which two speaker systems may be connected. Connect the speaker leads of the right-hand speaker to terminals "R" of "A" (or "B"), and the speaker leads of the left-hand speaker to terminals "L" of "A" (or "B"). Make sure that the " + " speaker lead is connected to the " + " terminal, and the " – " lead to the " – " terminals. Strip 1.0cm (3/8") of the insulation from the end of each speaker lead. Twist the exposed strands tightly, and secure the end with a touch of solder. The terminals are the push-insert type. Insert the end of the lead into the hole while pushing on the button. Then release the button; the hole will close and the cord is firmly fixed.

ANTENNA INSTALLATION AND CONNECTION

■ FM Antenna

Proper antenna installation is the key to smooth signal reception. To install the supplied T-shape indoor antenna, stretch it taut and secure horizontally along a wall or in a location where signal reception is optimal. Securely connect the antenna to FM antenna terminals marked "300Ω" on the rear panel. If an outdoor type FM antenna is installed, the T-shape antenna is not necessary. For proper use of your outdoor FM antenna. follow the instructions below.

1. Be sure to select the most appropriate type of antenna for the signal reception conditions in your area.
2. A 75-ohm coaxial cable is recommended to connect the antenna to the unit. Be sure to use the coaxial jack on the rear panel marked Antenna A.
3. Set the antenna in a position as high as possible if buildings,mountains or other obstructions nearby affect reception.
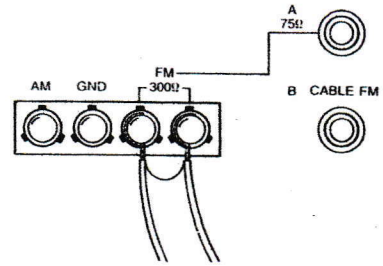
■ Cable FM (Antenna B)

This coaxial jack on the rear panel is used for receiving (FM) signals from cable or pay TV (CATV), where FM signals are being transmitted separately from video signals (e.g., a satellite cable TV with hi-fi stereo sound).

Note: this is used in conjuction with the Antenna B (Cable FM) button (24) on the front panel.
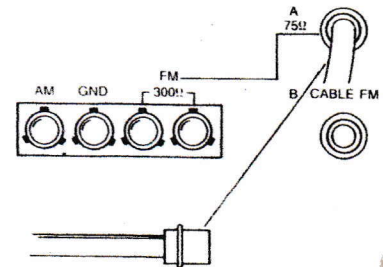
■ AM Antenna

The loop antenna is provided for optimum AM reception. Attach the loop antenna onto the antenna holder on the rear panel, and connect the lead wires to the antenna screw terminals marked "GND" and "AM". If an outdoor antenna is desired for better reception or if you are in a difficult reception area, connect the antenna to the same terminals as the loop antenna. you should leave the loop antenna connected to the terminals even when the external antenna is connected.
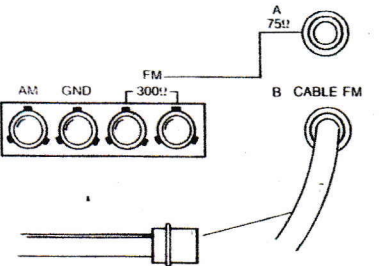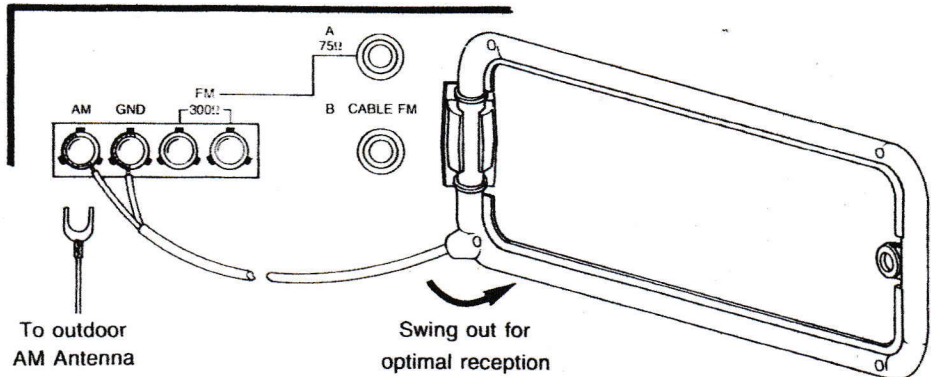
300Ω Antenna

75Ω Coaxial Antenna

Cable FM Antenna

AM Loop Antenna

To outdoor
AM Antenna

Swing out for
optimal reception

CONNECTING COMPONENTS

Connect all necessary audio/visual components to the rear panel of the unit, using RCA phono plugs. See the illustration for properly completed connections. When connecting RCA phono plugs be sure that L(left). R(right) markings on each component are matched correctly. Connect the ground wire of the turntable to the terminal marked GND on the receiver.

PHONO MM/MC SELECTOR

The unit has a built-in MC head amplifier, you can select the MM (moving magnet) or MC(moving coil) phono position. If your turntable uses an MC cartridge, set the selector to the MC position. If an MM cartridge is used, set the selector to the MM position.

ESL LOOPING IN AND OUT RECEPTACLES

AUDIO IN/OUT

For use with an equalizer,an additional cassette recorder, dynamic range expander, etc. Simply remove jumper pins and connect the audio component according to the instructions supplied with that component. Components connected to ESL LOOPING terminals are always in signal path, before pre-amp controls (tone, volume etc.) See diagram below:
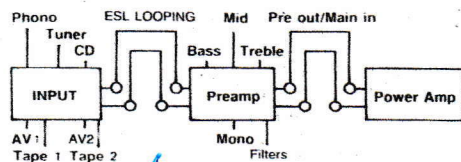
VIDEO IN/OUT

For use with a video enhancer, video noise reduction device, etc. Simply remove jumper pin and connect video component as per the instructions supplied with that component. The equipment connected to this loop will enhance dubbing between video sources as well as monitoring playback. See diagram below:
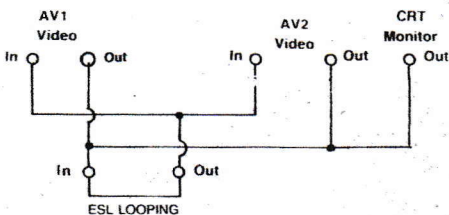
PREAMP OUT AND MAIN AMP IN RECEPTACLES

There are two pairs of terminals marked PREAMP OUT and MAIN AMP IN A and B connected with jumper pins on the rear chassis. Normally with the pins in place, your receiver is integrated. However, by removing the jumper pins, your unit in essence becomes two independent components consisting of one preamplifier and one main-amplifier (for A and B). These receptacles are intended for use with any optional equipment designed to be installed between the preamplifier and the main-amplifier or for separate use of either section alone. Equipment such as an audio equalizer or reverberation unit can be used; or another preamplifier or

main-amplifier may be hooked up. Simply disconnect the jumper pins and follow the instructions supplied with the accessory equipment. When no auxiliary equipment is being used, the jumper pins MUST be reinserted in order to use the receiver. Set A is for the front stereo amplifiers(A speakers), and the set B is for the rear stereo amplifiers (B speakers).

CENTER CHANNEL OUT

The mono signal (left and right channels) from the PREAMP OUT A will come out of this output. A power amplifier can be connected to the terminal for driving a subwoofer speaker system, if so desired.

AMPLIFIER BRIDGED MODE OPERATION

In the bridged mode operation only two speakers are used. In addition, the power is double that of normal 4 channel separation.

The ⊕ lead of the LEFT speaker cord should be connected to the SPEAKER A LEFT ⊕ (BRIDGED ⊕) terminal and ⊖ lead should be connected to the SPEAKER B LEFT ⊖ (BRIDGED ⊖) terminals.

The ⊕ lead of the RIGHT speaker cord should be connected to the SPEAKER A RIGHT ⊕ (BRIDGED ⊕) terminal and the ⊖ lead should be connected to the SPEAKER B RIGHT ⊖ (BRIDGED ⊖) terminal.

Note: The potential of the bridged ⊖ terminal of this unit is not the same as the earth potential. Connect the speaker system directly to this unit via the speaker cords; never use the speaker selector box or something similar in between the speaker cord so that the lead of the cord does not touch the other terminal or the metal part of this unit.
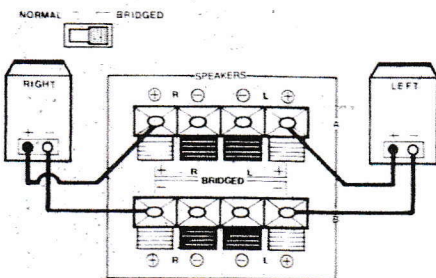
SURROUND SOUND SYSTEM

Surround sound can be achieved by using the controls on the SR-3600 surround system, which incorporates high powered 4-channel amplifiers and 4 speaker systems. The sources can be video tapes and discs which have Dolby Surround encoded, and normal stereo programs for simulated surround effects (Matrix and Hall effects).

IMPORTANT: Please make sure that the NORMAL/BRIDGED selector button on the rear panel is swithched to NORMAL position, and the 4 speakers are connected properly to the speaker terminals. Use speaker terminal A for the front speakers, and speaker terminal B for the rear speakers.

SWITCHES AND CONTROLS

(1) Power Button

This button turns on the power when pressed. The digital frequency display will be lit when the power is on. Press the button again to turn off the power.

(2) Frequency Display

Indicates the frequency of the radio station currently tuned in. "FM" and "MHz" denote FM reception, and "AM" and "KHz" mean AM reception. The word "MEMORY" will appear when the Memory Button is pressed.

(3) Signal Indicator

The three-LED array shows the incoming signal strength of a tuned station. When all three LED's are lit up, you are receiving an optimal signal.

(4) Stereo Indicator

Lights when an FM stereo signal is tuned in. When the stereo signal is too weak, it can be only received as mono and the indicator will not light up.

(5) Auto Scan Indicator

This LED lights up when the Auto Scan Button is depressed to show that the FM auto scanning mode is activated.

(6) Cable FM Indicator

This LED lights up when the Cable FM button is depressed and activated.

(7) Bridged Indicator

This indicator will light when the NORMAL/BRIDGED selector on the rear panel is switched to the BRIDGED position.

(8) Preset Station Buttons

These buttons are used to preset (memorize) desired stations, and to tune in (recall) the station preset.

(9) Preset Shift Button

This button allows you to program the desired stations into presets 11-20, and to tune in (recall) the very same stations.

(10) Tuning Up/Down Button

Used to tune in a desired radio station. Press the left part of the button (marked <) to tune in lower frequencies, or press the right part (marked >) to tune in higher frequencies.

(11) Memory Button

Enters a given station frequency into the memory. Press the memory button first, then press the desired station button. This button must be pressed before each preset button is pressed.

(12) Volume Control

Used to regulate the volume level. Turn clockwise to increase the level, and counterclockwise to reduce it. The LED indicator on the knob shows the position of the level set.

(13) Headphone Jack

Plug your headphones into this jack for private listening. Turn off both Speaker A and B buttons, so that the sound only comes out of the headphones. The volume level of the headphones can be controlled by the volume control.

(14) Speaker Buttons (A.B)

Allows you to select the speaker system you wish to use. Press button A to activate the speaker system connected to the A terminals on the rear panel, or press button B for the speaker system connected to the B terminals. Depressing both buttons A and B will activate both speaker systems for simultaneous operation. When only one speaker system is hooked up use the corresponding speaker button, and release the other button.
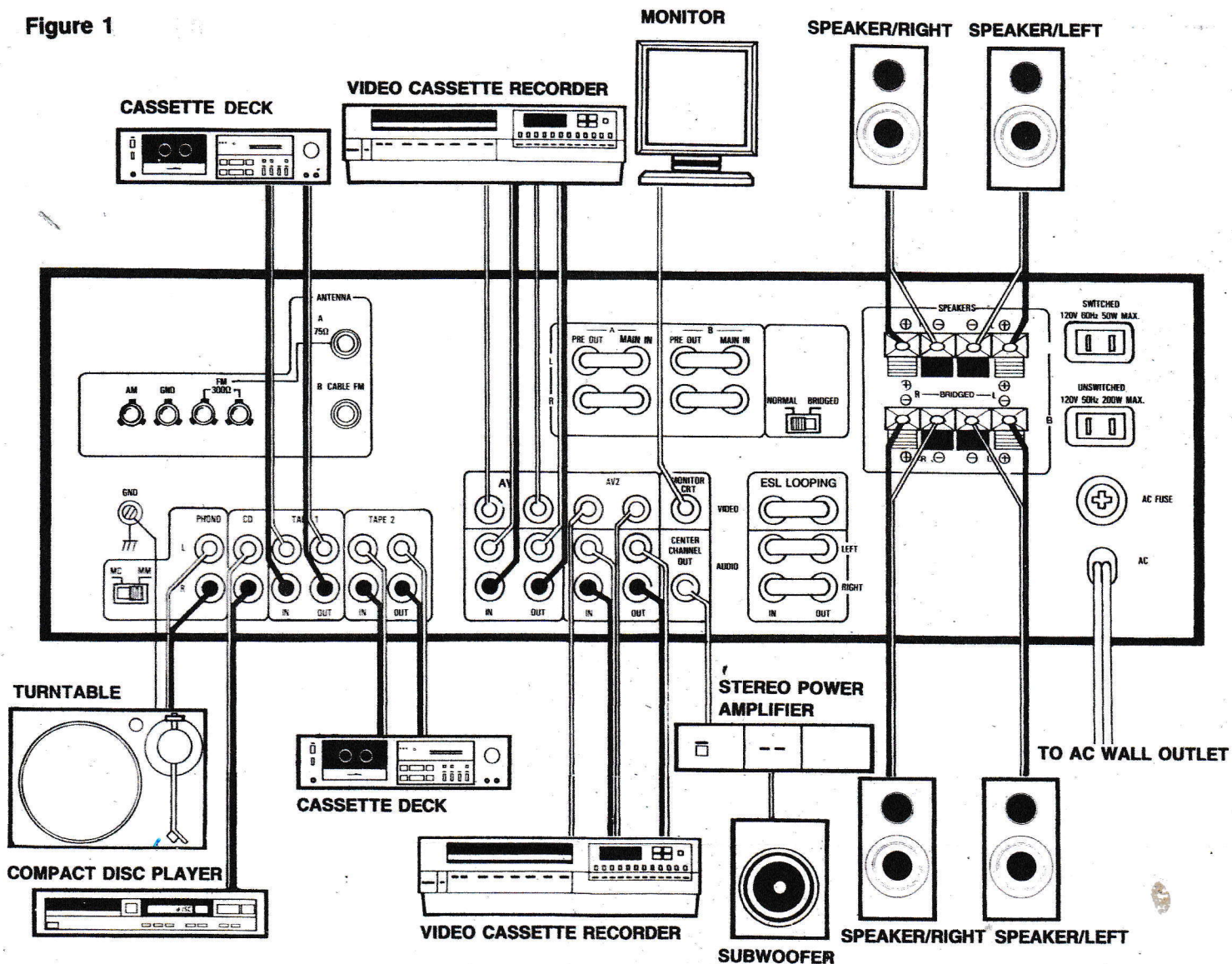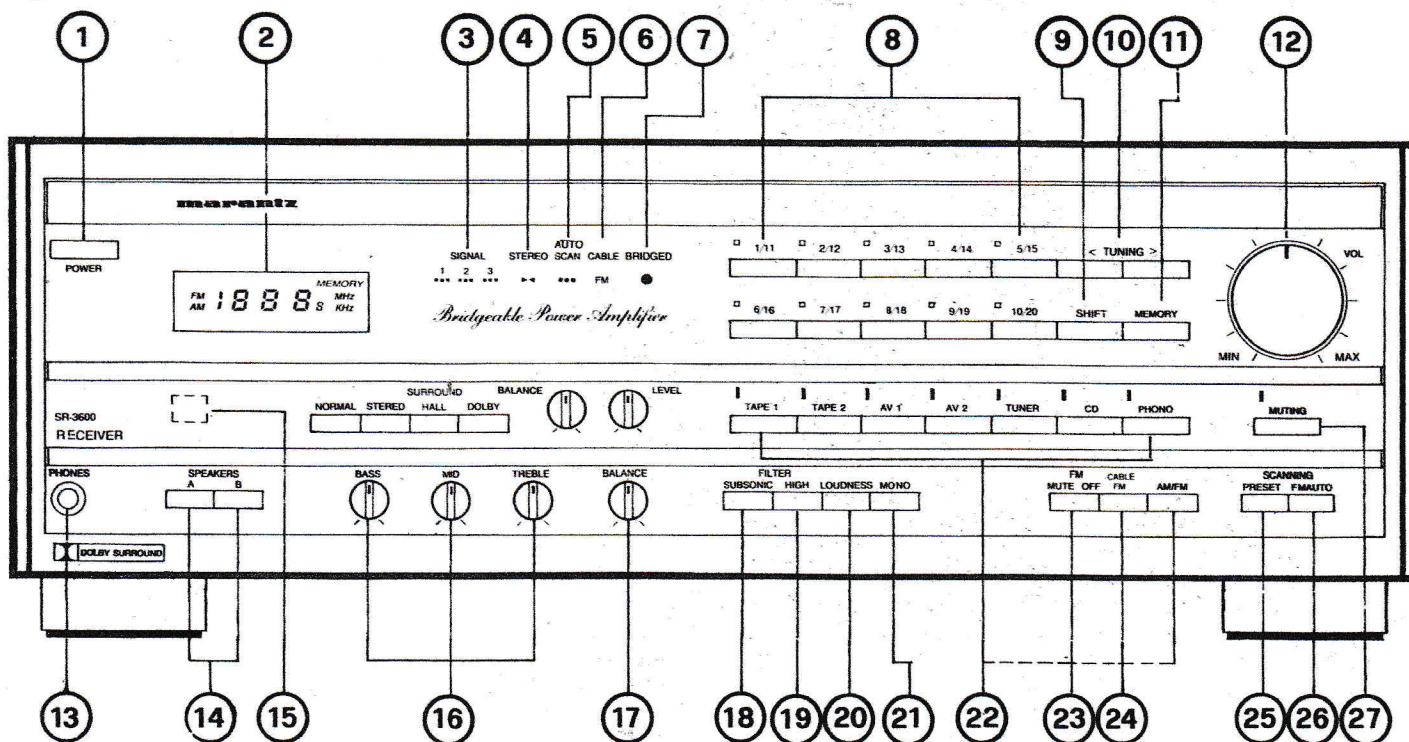
Figure 1

CASSETTE DECK

VIDEO CASSETTE RECORDER

MONITOR

SPEAKER/RIGHT   SPEAKER/LEFT

ANTENNA

A 75Ω

B CABLE FM

AM GND FM 300Ω

SPEAKERS

SWITCHED
120V 60Hz 50W MAX.

UNSWITCHED
120V 50Hz 200W MAX.

PRE OUT MAIN IN   PRE OUT MAIN IN

A   B

NORMAL BRIDGED

R BRIDGED

AC FUSE

AC

GND

PHONO CD TAPE 1 TAPE 2

MC MM

L

R

IN OUT IN OUT

AV1 AV2 MONITOR CRT

CENTER CHANNEL OUT

VIDEO

AUDIO

ESL LOOPING

LEFT

RIGHT

IN OUT

IN OUT IN OUT

TURNTABLE

STEREO POWER AMPLIFIER

TO AC WALL OUTLET

CASSETTE DECK

COMPACT DISC PLAYER

VIDEO CASSETTE RECORDER

SUBWOOFER

SPEAKER/RIGHT SPEAKER/LEFT

Figure 2

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SIGNAL

1 2 3

STEREO AUTO SCAN CABLE BRIDGED

FM

Bridgeable Power Amplifier

1/11 2/12 3/13 4/14 5/15

< TUNING >

VOL

6/16 7/17 8/18 9/19 10/20 SHIFT MEMORY

MIN MAX

POWER

FM
AM 1888 MEMORY
S MHz
KHz

SURROUND BALANCE LEVEL

NORMAL STEREO HALL DOLBY

TAPE 1 TAPE 2 AV 1 AV 2 TUNER CD PHONO

MUTING

SR-3600
RECEIVER

PHONES SPEAKERS

A B

BASS MID TREBLE BALANCE

FILTER

SUBSONIC HIGH LOUDNESS MONO

FM CABLE
MUTE OFF FM AM/FM

SCANNING
PRESET FM/AUTO

DOLBY SURROUND

1 2 3 4 5 6 7 8 9 10 11 12

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

4

OPERATION

* The SR-3600 employs a quartz PLL synthesis tuner for easy and accurate tuning, with tuned frequencies visible on the digital readout. Using the unit's memory circuit, you can preset your desired stations. This is a feature only a synthesis tuner can offer, allowing you recall of a stored station frequency instantly with a light tap on a preset button.

One station button can store one AM or one FM station in its memory. The SR-3600 permits a total of 20 stations to be stored. For example, you could store 12 FM and 8 AM stations randomly.

There is a special back-up system for the unit's memory circuit. If the power cord is unplugged, or if there is a power failure, the back-up system will retain the frequencies stored in the memory circuit for three days (the memory is retained as long as the power cord is plugged into an AC outlet, regardless of the POWER button on/off). If you leave the power cord unplugged for over three days, the stored stations will be lost.

• Before commencing operation, check to see that all connections are properly made.

• Always be sure to set the volume control to the minimum position before turning on power.

• Select speaker button A or B (or both) for the speaker system(s) you are going to use.

• When using headphones, set both speaker buttons to the released (OFF) position.

• Set the tone controls and loudness button as desired.

Radio Listening

1. Press the TUNER button on the Function Selector, and select AM or FM using the AM/FM button.

2. Tune in to the desired station using the tuning or the preset station buttons.

3. Raise the volume to the desired level.

TUNING

The unit is designed to permit three modes of tuning: auto-scan tuning, manual tuning, and preset memory tuning.

• **Auto-scan Tuning (for FM Reception Only)**
Set the FM Auto Scan button to the depressed position.

Press the DOWN or UP part of the Tuning switch. Automatic scanning of FM band begins. Scanning stops when it reaches a point where the input signal exceeds a certain acceptable level. The receiving frequency is shown on the readout. To tune in to another station, press the DOWN or UP part, of the Tuning switch depending on the frequency of the desired station.

• **Manual Tuning**
Set the FM Auto Scan button to the released (out). A touch of the tuning switch, on either the DOWN or UP part, will shift the tuning frequency in 100kHz increments. If you keep the switch pressed down, release the switch to stop.

• **Preset Memory Tuning**
Tune in to the desired station in either the autoscan or manual tuning mode.

For Presets 1—10
Press the Memory button, then press any station button 1 through 10, to enter the frequency into the memory. Afterward, you may recall that frequency any time by simply pressing the same button.

Once you have pressed the Memory button, you must press a station button within a few seconds or the memory function will turn off (MEMORY in the readout turns off). In this case, begin again following the above procedure.

For Presets 11—20
Press the Memory button, then press the Shift button (the shift LED will also light up when a preset button is depressed.) Now press any station button from 11—20 to enter the frequency into the memory. You may recall that frequency any time by first pressing the Shift button and then the same station button.

Once you have pressed the Shift button, it will remain "On" for five seconds. This allows you to select different station presets above 10 without having to constantly press the Shift button. If you wish to select the preset button below stations 10 for I through 10, wait until the shift LED indicator light goes out.

Note: If you have turned off the unit, and turn it on again, the unit will tune in to the station frequency to which it was tuned immediately before it was shut off.

• **Preset Scanning**
Depress the preset scan button once to scan the preset stations automatically for a few seconds each from the preset 1 through 20 in sequence. The LED preset indicator will light up for a few seconds accordingly to show which preset station is being scanned at that moment. So when you have found the station you wish to listen to, just depress the corresponding preset button (which will also stop preset scanning).

Listening To Cable FM
If you subscribe to a cable or pay TV which offers a Satellite TV broadcast with a hi-fi stereo FM audio signal, you can enjoy its optimal sound quality by using the Antenna B coaxial socket on the rear panel. The procedures are as follows:

1. Connect to the Antenna B socket from your cable TV decoder.

2. Depress the Cable FM button on the front panel. The LED indicator On the display window will light up to show that the button is activated. Tune to the frequency of the Cable FM station. If you want to store the frequency, use one of the preset buttons as for normal FM (you would still have to activate the Cable FM button first to listen to this frequency).

Turntable Listening
1. Press the PHONO button on the Function Selector.

2. Start play, and then raise the volume.

Listening from Compact Disc Player
1. To listen to a compact disc, press the CD button on the function selector.

2. Start play according to the instruction manual.

3. Raise the volume to the desired level.

Tape Deck Playback
1. Press the TAPE 1 or 2 button on the Function Selector according to which tape deck you are going to play.

2. Start playback.

3. Raise the volume to the desired level.

Recording Program Source
Play the desired program source according to the procedures noted above. The signal from the source will appear at TAPE 1 OUT or TAPE 2 OUT terminals on the rear panel. Put the tape deck in the recording mode to record the signal. During recording, manipulating the volume control, tone controls, etc. will have no effect on the signal being sent through the TAPE 1 or TAPE 2 OUT terminals.

Dubbing
Two tape decks can be used to perform tape-to-tape copying (dubbing) This receiver allows full dubbing from TAPE 1 to TAPE 2 or from TAPE 2 to TAPE 1.

Put TAPE 1 or TAPE 2 deck, whichever deck to be dubbed (recorded), in playback mode* (depress the corresponding TAPE 1 or TAPE 2 button ON). Then set the other deck to recording mode, and start dubbing. During dubbing, you may listen to the signal with the volume control, etc. Set as desired, since it will not affect the recording signal.

PLAYBACK AND RECORDING WITH AV EQUIPMENT

The SR-3600 permits connection and switching of audio-visual components, so that the receiver can be used as an AV control center. There are two sets of inputs for stereo AV components such as one video disc player and one stereo video recorder or two stereo video recorders. There is also a separate monitor CRT output for connection of a color monitor TV for high quality viewing. This system then not only provides for easy selection of video sources, but also allows high performance operation for excellent sound quality such as digital sound from a Hi-Fi video recorder.

In addition, video sound tracks can be dubbed onto a tape recorder connected to the receiver, or vice versa. Video dubbing is also possible from AV1 to AV2, or AV2 to AV1. To carry out playback with the equipments connected to the AV inputs, set the function selector to AV1 or AV2. Set the TV or video monitor to the video input mode to view the picture. Adjust the volume and other controls on the receiver as desired.

Recording (Dubbing)
Set the function selector to AV1 or AV2, where the source to be recorded is connected. Then record with the video recorder playback to the AV1 to AV2 terminals on the rear panel. The video signal being recorded can be monitored by a TV or video monitor.

HUM AND NOISE

In any high fidelity installation, hum may be caused by the interconnection of a turntable, receiver, and speakers as the result of wiring, different grounding or location of components. If hum is experienced with your unit, disconnect everything but the speakers from the unit. Plug in the turntable and if hum or howling appears, move the turntable away from the speakers as much as possible.

Note hum may also be induced by faulty cable connections or by running the cables too close to a strong AC field.

When your unit picks up noise during the reception of broadcasts, causes are mostly due to external objects such as fluorescent lamps and house appliances using a motor or thermostat, or others that may induce the noise.

Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily solve the problem.

In the event you cannot find the cause, consult your dealer or a qualified electrician.

(15) Remote Sensor

This is the target eye which receives operating commands in the form of infra-red beams emitted from the remote control unit.

(16) Bass/Mid/Treble Tone Controls

These controls allow you to regulate frequency response in 3 separate ranges. Use them to tailor your favorite sound. The Bass Control is for adjusting the low frequency range; the Mid Control is for the middle frequency range; and the Treble Control is for the high frequency range. Each control can be rotated clockwise to boost the relative response, and counter-clockwise to reduce it. Adjust to the sound you like best by using these controls.

(17) Balance Control

Regulates the balance of sound output from the speakers. Turning the control to the left shifts the center of total sound to the left, and turning to the right moves the center to the right. Normally in the mid-position, the sound produced from both left and right speakers should be equally balanced for optimal stereophonic reproduction.

(18) Subsonic Filter Button

The subsonic filter cuts off the noise in low frequency range without affecting the sound quality. When this button is in the depressed position, frequencies below 20Hz are rolled off at the −6dB/octave, reducing disturbing subsonic effects such as low frequency noise caused by record wrapage or shock produced when the stylus is lowered onto a record.

(19) High Filter Button

Allows you to reduce high frequency interference such as annoying record scratches, tape hiss, FM background noise, etc. Normally, however, keep this switch OFF for optimum frequency reproduction of all program sources.

(20) Loudness Button

The human ear has a tendency to become less sensitive to very low or high frequencies when listening at reduced volume levels. The button activates a compensation function by boosting those frequencies, so that a more natural sound can be heard at low volume levels.

(21) Mono Button

When this button is depressed the input signals are converted to monaural, including stereo FM broadcasts. In the off position, stereo sources are reproduced stereophonically.

(22) Function Selector buttons

These buttons are used to select the program sources you wish to listen to. Press the PHONO button to play the turntable; CD button for the compact disc player; TUNER when listening to an AM or FM broadcast (select by AM/FM button); TAPE 1, TAPE 2 buttons for a cassette deck, a video cassette recorder or a video disc player connected to the unit. The indicator above each button lights up when the button is pressed.

(23) FM Mute Off Button

Normally this button should be left in the off position, so that any unwanted interstation noise during FM tuning is suppressed. Use this button only when tuning in a very weak FM station in the manual scanning mode.

(24) Cable FM Button

The button allows you to select between the two antenna inputs (75-ohm coaxial) on the rear panel. Leave the button out (OFF position) for the regular FM use. Depress the button to Cable FM (which comes with CableTV).

(25) Preset Scan Button

This button allows you to scan only the preset stations in sequence for a few seconds each.

(26) FM Auto Scan Button

When this button is pressed, the FM tuning mode changes from manual to the automatic scanning mode. Use it when you wish to scan stations quickly. In the manual scanning mode, the tuning up/down button must be continuously pressed for tuning. (Note: the button has no effect for AM tuning, which has to be done manually.)

(27) Audio Muting Button

Press this button when you wish to quickly and temporarily reduce the sound level. Press the button again to restore the original volume level setting.

(28) Surround Normal Button

Depress the button to deactivate the surround system. Leave at the "off" position when not using the surround system (an identical stereo signal is delivered to the front and rear speakers).

(29) Surround Stereo Button

Delivers a difference signal (L-R) to the rear speakers. Effective for adding special ambience to stereo programming.

(30) Surround Hall Button

Delivers a delayed difference signal (L-R) to the rear speakers and mixes same the signal with normal stereo for the front speakers.
Depress the button on get the surround effect as if listening in a hall.

(31) Surround Dolby Button

Depress the button to get the Dolby Stereo Surround effect, with video tapes and video discs which have Dolby Surround encoded.

(32) Surround Balance Control

Use the control when the Dolby button is depressed, for controlling the balance of rear speakers. For correct setting, switch the Speaker A Button off, push the Mono Button, and adjust the input balance such that rear speaker level is minimized.

(33) Surround Level Control

Use the control to balance the level between front and rear speakers. Adjust for rear speakers as "fill" (minimal audible level), and do not overpower front speakers.

Remote Control Functions

(34) Power Button for on/off.
(35) Function Selector Buttons (same as item 22).
(36) Preset Station Buttons (same as item 8).
(37) Tuning Buttons (same as item 10).
(38) Volume Buttons (same as the item 12). The volume control (rotary) on the main unit will turn automatically by means of a built-in motor drive when the volume control buttons on the remote control are pressed.
(39) Audio Muting button (same as the item 27)
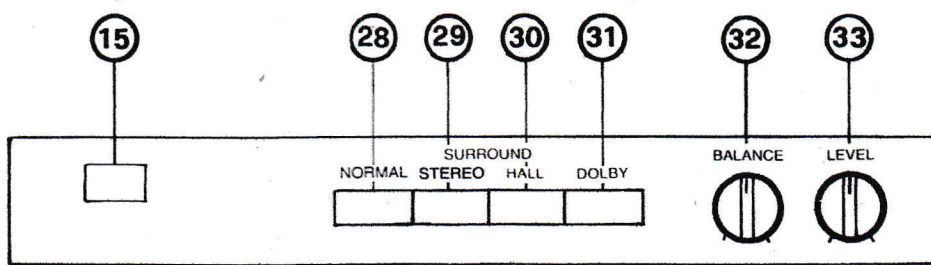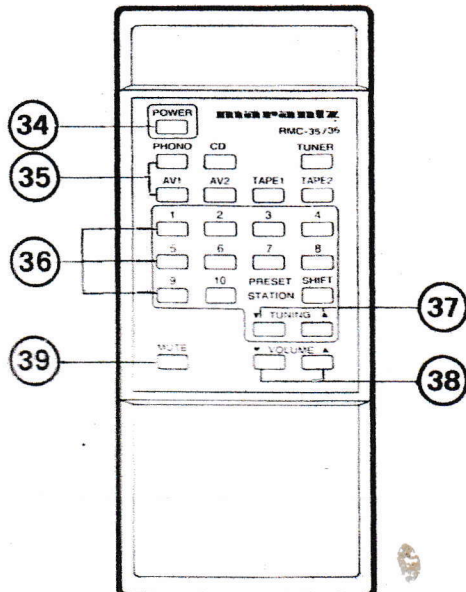
PROTECTION CIRCUIT

The SR-3600 incorporates all possible safety measures by combining multiple protection circuits to prevent accident or damage.

If for some reason the protection circuit is activated, there will be a sudden cut-off sound from the speakers.

If no sound is produced, the reason may be due to the functioning of the protection circuit. First, turn off the power and disconnect the plug from the electrical outlet, and check to be sure that the speaker cables are not short-circuited. Also check to make sure the impedance of each speaker is 8 ohms or over (if it is below 4 ohms, the unit will be overloaded due to low impedance). When using 2 sets of speaker systems simultaneously, make sure that the impedance of each speaker is 16 ohms or more.

After checking the above points, turn the power on. The protection circuit will automatically be deactivated and the unit will start functioning again.

The protection circuit normally operates when the unit is first turned on to prevent a popping noise from occuring. No sound is produced for several seconds after turn-on.

MAINTENANCE

CLEANING

The finish of the knobs and front panel will last indefinitely with proper care and cleaning. **NEVER** use scouring pads, steel wool, scouring powders, or harsh chemical agents, such as lye solution. These will mar the finish. Clean with a soft, lint-free cloth or cotton swab slightly dampened with a mild solution of detergent and water.

FUSE REPLACEMENT

In the event the fuse blows out, replace it ONLY with a fuse of the same type and rating. Replacement with a fuse of a higher rating or slower action will not protect the unit and will void the warranty.

The unit power should be switched **OFF** before replacing the fuse. Should the replacement fuse blow out within a short period of time after the unit is turned on, the unit should be taken to an authorized service facility.

REPAIRS

To service your Marantz unit, refer to a Marantz factory authorized warranty station. The Marantz Company and its factory trained technicians have the knowledge and special equipment needed for repair and calibration of this precision instrument.

In the event of difficulty, please call the proper toll free number listed below, and ask for Marantz Service:

For the Continental United States
(except ILL):   800-447-1970
For Illinois: 800-332-0800
For Hawaii and Alaska: .800-447-0890

When delivering the product for service, you should take a copy of your purchase receipt and a full description of the problems you have encountered.

REPACKING FOR SHIPMENT

Should it become necessary to repack your unit for shipment to the factory, to an authorized service station, or elsewhere, please observe the following precautions:

a. Pack the unit carefully, using the original material.
b. Ship via a reputable carrier (do not use Parcel Post) and obtain a shipping receipt from the carrier.
c. Be sure to include your return address on the shipping label.

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