

manorantz®

Q&S

Model PM-17 User Guide

Integrated Amplifier

ENGLISH

WARRANTY

For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contactez le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client détaillé la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituant des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlagen mit Kaufdatum vorlegen. Ihren Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz.

UW KWITTANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing bijv. in verband met verzekering of bij correspondentie met Marantz.

BELANGRIJK

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuurzijn voldoende bewijs.

ESPAÑOL

GARANTIA

Para obtener información acerca de la garantía póngase en contacto con su distribuidor Marantz.

GUARDE SU RECIBO DE COMPRA

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor. Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con Marantz.

IMPORTANTE

Cuando solicite el servicio otorgado por la garantía el usuario tiene la responsabilidad de demostrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

ITALIANO

Condizioni di garanzia

L'apparecchio e' garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilità per danni difetti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al Servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 - numero verde).

PORTUGUÊS

GARANTIA

Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA

O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE

Quando procurar assistência técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

SVENSKA

GARANTI

För information om garantin, kontakta Marantz lokaltagent.

SPAR KWITTOT

Kvitto är ett inköpsbevis på en värdedelull vara. Det skall förvaras säkert och hänvisas till vid försäkringsfall eller vidkorrespondens mod Marantz.

VIKTIGT

Fö att garantin skall gälla är det kundens sak att framställa bevis och datum om köpet. Kvitto eller faktura är tillräckligt bevis fö detta.

DANSK

GARANTI

Henvend dem til Deres MARRANTZ-forhandler angående information om garantien.

GEM DERES KVITTERING

Deres købskvittering er Deres varige bevis på et dyrt køb. Den bør gemmes godt og anvendes som bevis, hvis De vil tegne en forsikring, eller hvis De kommunikerer med Marantz.

VIGTIGT

Det påhviler forbrugeren at skaffe bevis for købet og købsdatoen, hvis han eller hun ønsker garantiservice. Deres købskvittering eller faktura er et fuldgyldigt bevis herpå.

FOREWORD

This section must be read before any connection is made to the mains supply.

WARNINGS

- Do not expose the equipment to rain or moisture.
- Do not remove the cover from the equipment.
- Do not push anything inside the equipment through the ventilation holes.
- Do not handle the mains lead with wet hands.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.

"02" Version product can be powered by 230 V AC only.

On the rear panel of the "01" Version product, a voltage selector (2-position) is provided. Be sure to set the voltage selector to the mains voltage of your area before using the unit.

IMPORTANT: (For UK version only)

This apparatus is fitted with an approved moulded 13 Amp plug.

To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE:


The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:

BLUE—"NEUTRAL" ("N")

BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol  or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- any subsequent statutory enactments and orders

ABOUT THIS USER GUIDE

Refer to the Figures on the page 57 at the rear of this user guide. The numbers on the diagrams correspond to those in the text. All references to the connections and controls that are printed in BOLD type are as they appear on the unit.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When setting the equipment ensure that:

- the ventilation holes are not covered
- air is allowed to circulate freely around the equipment
- it is on a vibration free-surface
- it will not be exposed to interference from an external source
- it will not be exposed to excessive heat, cold, moisture or dust
- it will not be exposed to direct sunlight
- it will not be exposed to electrostatic discharges

Never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service centre.

Do not pull out the plug by pulling on the mains lead, hold the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

CONNECTIONS

(Figure 2)

CONNECTIONS OF TUNER

Connect the output jacks of your stereo tuner to the LINE 1-LINE 3 jacks of this unit.

CONNECTION OF COMPACT DISC PLAYER

Connect the output jacks of your CD player to the CD jacks of this unit.

CONNECTION OF TURNTABLE

Connect the L (Left) output cord of the turntable to the "L" PHONE jack of this unit, and connect the R (Right) output cord to the "R" PHONE jack. Also be sure to connect the turntable's grounding wire to the GND jack of this unit. The GND jack does not have to be connected if the turntable is not provided with a grounding wire.

CONNECTION OF DCC/TAPE DECK

Connect the IN (recording input) jacks of the tape deck to the OUT jacks of this unit, and connect the OUT (playback output) jacks of the tape deck to the IN jacks of this unit.

CONNECTION OF SPEAKER SYSTEMS

This unit is equipped with a sets of SPEAKER SYSTEM terminals.

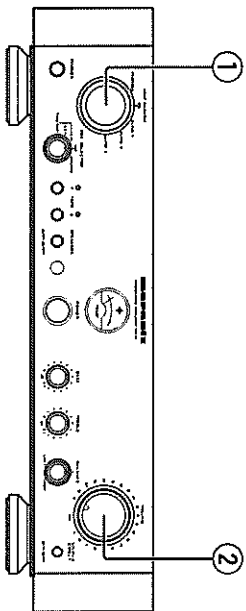
- The speakers in the speaker system should have an impedance between 4 and 16 ohms. If speakers with an impedance of less than 4 ohms are connected, the protection circuitry may be activated during play.
- Connect the Right channel speaker to the R terminals, and the Left channel speaker to the L terminals.
- The output terminals have positive (+: Red) and negative (—: Black) polarity, and each speaker also has the same polarity (+ and —). When connecting the speaker, be sure to connect the terminals with the same polarity (+ with +, — with —).

NAMES OF CONTROLS AND INDICATORS

(Figure 1)

- ① **PHONE INPUT jacks**
Connect the output jacks of a turntable to these jacks.
- ② **CD PLAYER INPUT jacks**
Connect the output jacks of a Compact Disc player to these jacks.
- ③ **LINE 1 — LINE 3 INPUT jacks**
These are LINE 1 — LINE 3 input jacks which can be used to connect the audio outputs of AV components such as TV multiplex/stereo audio tuners, VCRs, and laserdisc players.
- ④ **TAPE 1/TAPE 2 IN/OUT jacks**
Connect the play (output) jacks and record (input) jacks of tape decks to these jacks.
Up to these tape decks can be connected.
- NOTE:**
When a surround processor or graphic equalizer is used, it must be connected to the TAPE 1 jacks.
- ⑤ **MM/MC SELECTOR switch**
When the INPUT SELECTOR is set to PHONE, the type of cartridge used on the turntable can be selected between MM (Moving Magnet) and MC (Moving Coil) using this switch.
Set this switch according to the cartridge used on the turntable. MC is selected when the switch is set to the low position.
- ⑥ **GND (GROUND) terminal**
Connect the grounding wire from the turntable to this terminal.
- ⑦ **SPEAKER SYSTEMS**
Connect your speaker system to these terminals.
- ⑧ **REMOTE CONTROL BUS terminals (REMOTE CONT. BUS)**
Another item of audio equipment with a remote control bus terminals can be connected to these terminals by using a special-purpose cable. The bus OUT terminal is used to send signals to another item of equipment. The bus IN terminal is used to receive signals from another item of equipment.
- ① **PRE-OUTPUT terminal**
Output jack for connection to extension power-amp, mixer or similar.
- ① **INPUT SELECTOR switch**
Selects the program source to be recorded or played, from PHONO, CD, LINE 1, LINE 2 and LINE 3.
- ② **VOLUME control**
Turn the knob to adjust the volume. Turning the knob clockwise () to increase the volume. The volume up-down operations can also be controlled from the provided remote control unit.
- ③ **REC SELECTOR switch**
Selects the COPY function for tape copy between tape decks or the signal to be output at the REC OUT jacks.
- ④ **SPEAKERS switch**
Press to switch the speaker systems ON (pressed-in position) and OFF (out position).
Set the switch to OFF (out position) when you listen through headphones only.
- ⑤ **PHONES jack**
This jack accepts the standard stereo phone plug of headphones.
- ⑥ **IR SENSOR**
The unit receives the infrared remote control signal through this window. Point the transmitter of the remote control unit toward this window to send correct remote control signals.
- ⑦ **POWER switch**
Press to turn power ON and press again to turn it OFF.
Meeter ⑩ lights up when the POWER is turned ON. The pointer LED of the INPUT SELECTOR switch ① also lights when the power is ON and goes out when it is OFF. This switch also switches ON/OFF the power supply from the AC OUTLETS (SWITCHED) on the rear panel.
- ⑧ **Tone (BASS, TREBLE) controls**
Turn the knobs to adjust the tone. Turning a knob controls the level of the corresponding frequency range. Turning each control toward "+" boosts the corresponding frequency range and toward "—" attenuates it.
TREBLE: Controls the tone of high frequencies.
BASS: Controls the tone of low frequencies.
- ⑨ **SOURCE DIRECT switch**
When this switch is pressed in, the signals are transmitted by bypassing the BALANCE and tone (BASS and TREBLE) control circuitry so that they can be reproduced with a higher quality.
(The BALANCE, BASS and TREBLE controls are defeated.)
- ⑩ **BALANCE control**
Turn to correct the left-right imbalance which may occur in stereo broadcast/reception or otherwise change the output level of either the LEFT or RIGHT channel. Be careful for the position of this control because turning it fully clockwise or counterclockwise mutes the sound from the other channel.
- ⑪ **Warm-up meter**
With any audio set, the real sound quality cannot be obtained immediately after the power is turned on, and warming up is required to make the set exhibit its full performance. As time passes after the power has been turned ON, the temperatures of different parts of the set become constant and the electrolytic capacitors become active.
This meter allows to check the warm-up condition of the set.
The meter needle starts to swing gradually in a little while after the power is turned ON and reaches about 2/3 of the meter's full scale in about 30 minutes. Now the set has almost been warmed up and can reproduce music with its original performance.
The meter positions immediately after turning power on and at the end of warming up and the time taken for warming up are variable depending on the temperature, ventilation and other conditions of the listening room where the set is located.
- ⑫ **TAPE switches**
Pressing the TAPE 1 or TAPE 2 button lights up the corresponding indicator. Press one of the switch buttons to monitor the tape deck connected to the corresponding jacks on the rear panel.

PLAYING PROGRAM SOURCE



- Playing an analog disk**
1. Set the INPUT SELECTOR switch ① to PHONO.
 2. Play the analog turntable.
 3. Adjust the volume with the VOLUME control ②.

Caution for analog disk play

- Reduce the volume to the minimum position before replacing the cartridge or placing the stylus on the disk.
- Do not apply shock to the turntable during play. Otherwise the stylus may jump and damage the disk surface.
- Avoid installing the turntable near a speaker, for this may cause howling and make it impossible to increase the listening volume.
- Do not turn power of the turntable off while the stylus is placed on a disk.

Playing a CD player

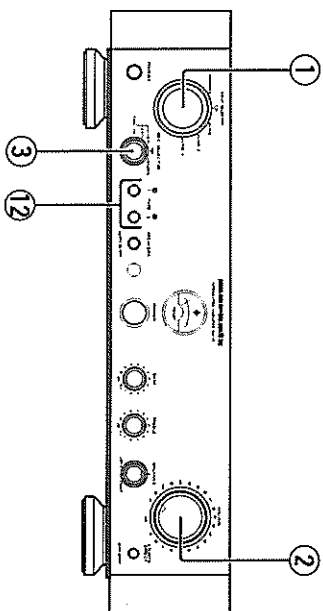
1. Set the INPUT SELECTOR switch ① to CD.
2. Play the CD player.
3. Adjust the volume with the VOLUME control ②.

Playing a source connected to one of LINE 1 to LINE 3

The source component connected to any of the LINE 1 to LINE 3 input jacks on the rear panel can be played as described below.

1. Set the INPUT SELECTOR switch ① to LINE 1, LINE 2 or LINE 3.
2. Play the component connected to the selected input.
3. Adjust the volume with the VOLUME control ②.

OPERATION OF TAPE DECKS



- Playing a tape**
1. Press the TAPE switch ① corresponding to the tape deck to be used in playback (TAPE 1 or TAPE 2).
 2. Play a pre-recorded tape on the selected tape deck.
 3. Adjust the volume with the VOLUME control ③.

Recording a tape

A program source such as the analog turntable, tuner or CD player can be recorded onto tape as described below.

Recording of CD

1. Set the REC SELECTOR switch ③ to SOURCE.
2. Set the INPUT SELECTOR switch ① to CD.
3. Play a CD on the CD player.
4. Operate the selected tape deck to start recording.

Recording of analog disk played on the analog turntable

1. Set the REC SELECTOR switch ③ to SOURCE.
2. Set the INPUT SELECTOR switch ① to PHONO.
3. Play an analog disk on the turntable.
4. Operate the selected tape deck to start recording.

Recording of a source connected to one of LINE 1 to LINE 3

1. Set the REC SELECTOR switch ③ to SOURCE.
2. Set the INPUT SELECTOR switch ① to LINE 1, LINE 2 or LINE 3.
3. Play the source component connected to the selected input.
4. Operate the selected tape deck to start recording.

SETTING FOR CUTTING THE SIGNAL OUTPUT TO THE TAPE DECKS WHEN TAPE RECORDING IS NOT REQUIRED

1. Set the REC SELECTOR switch ③ to OFF.

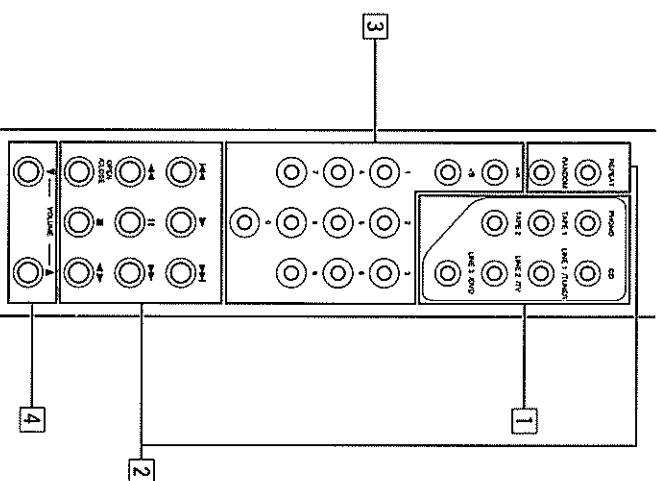
COPYING A PRE-RECORDED TAPE USING THE REC SELECTOR SWITCH ③

Set the REC SELECTOR switch ③ to 1→2 and 2→1 allows to copy tape signal from TAPE 1 to TAPE 2 and from TAPE 2 to TAPE 1 respectively, regardless of the program source being selected with the INPUT SELECTOR switch ①.

- The program source selected with the INPUT SELECTOR switch ① can be monitored during tape copy.
- Tape copy 1→2 copies the signal played by the tape deck connected to TAPE 1 onto the tape deck connected to TAPE 2, and tape copy 2→1 copies the signal played by the tape deck connected to TAPE 2 onto the tape deck connected to TAPE 1.

REMOTE CONTROL OPERATION (REMOTE CONTROL UNIT: RC-17PM)

The RC-17PM remote control unit can control MARANTZ audio/video components equipped with an infrared remote sensor as well as other MARANTZ components which are connected with the above components through the remote control bus. The following illustration shows the button layout of the RC-17PM. Note that the functions of the PM-17 that can be remote controlled are only the volume up/down control and input selection operations.



1 Group of buttons for selecting the connected components *1

These buttons are used as the amplifier's input selector.

2 Group of buttons for controlling playback, etc.

These buttons are used to control the CD player, tape deck, etc.

3 Group of numeric buttons

These buttons are used to enter figures for the tuner, CD player, etc.

4 Group of amplifier (PM-17) control buttons

These buttons are used to control the listening volume.

*1 Pressing one of these buttons (CD, TUNER, TV, etc., except for PHONO) change the functions of the buttons in groups ②, ③ and ④ according to the selected source component. Please refer to the following tables entitled "Button functions when the TAPE 1 input button is pressed", which show how the button functions change.

Button functions when the **TAPE 1** button is pressed:

Button	Function
▶	Play
▶▶	Fast forward
◀◀	Rewind
◀◀▶	Play direction change
■	Stop
OPEN/CLOSE	Open/close (limited models only)
+	Deck A
-	Deck B
▶▶1	Skip forward to next music
1◀◀	Skip backward to previous music
REPEAT	Reverse mode
RANDOM	Not used.
VOL ▲	Amplifier volume Up
VOL ▼	Amplifier volume Down

Button functions when the **TAPE 2** button is pressed:

Button	Function
▶	Play
▶▶	Fast forward
◀◀	Rewind
◀◀▶	Play direction change
■	Stop
OPEN/CLOSE	Open/close
+	Deck A
-	Deck B
▶▶1	Skip forward to next music
1◀◀	Skip backward to previous music
REPEAT	Not used.
RANDOM	Not used.
VOL ▲	Amplifier volume Up
VOL ▼	Amplifier volume Down

Button functions when the **CD** button is pressed:

Button	Function
▶	Play
▶▶	Fast forward
◀◀	Fast backward
◀▶	Not used.
■	Stop
OPEN/CLOSE	Open/close
+	Disc Up (changer-equipped model only)
-	Disc Down (changer-equipped model only)
▶▶1	Skip forward to next track
1◀◀	Skip backward to previous track
REPEAT	Repeat
RANDOM	Random play
VOL ▲	Amplifier volume Up
VOL ▼	Amplifier volume Down

Button functions when the [LINE 1 (TUNER)] button is pressed:

Button	Function
▶	Not used.
▶▶	Frequency Up
◀◀	Frequency Down
◀▶	Not used.
■	Not used.
OPEN/CLOSE	Not used.
+	Preset Up
-	Preset Down
▶▶▶	Programme type Up
◀◀◀	Programme type Down
REPEAT	Not used.
RANDOM	Not used.
VOL ▲	Amplifier volume Up
VOL ▼	Amplifier volume Down

Button functions when the [LINE 2 (TV)] button is pressed:

Button	Function
▶	VCR play
▶▶	VCR fast forward
◀◀	VCR rewind
◀▶	Not used.
■	VCR stop
OPEN/CLOSE	VCR eject
+	Channel/program Up
-	Channel/program Down
▶▶▶	VCR double-speed forward
◀◀◀	VCR double-speed backward
REPEAT	Not used.
RANDOM	Not used.
VOL ▲	Amplifier volume Up
VOL ▼	Amplifier volume Down

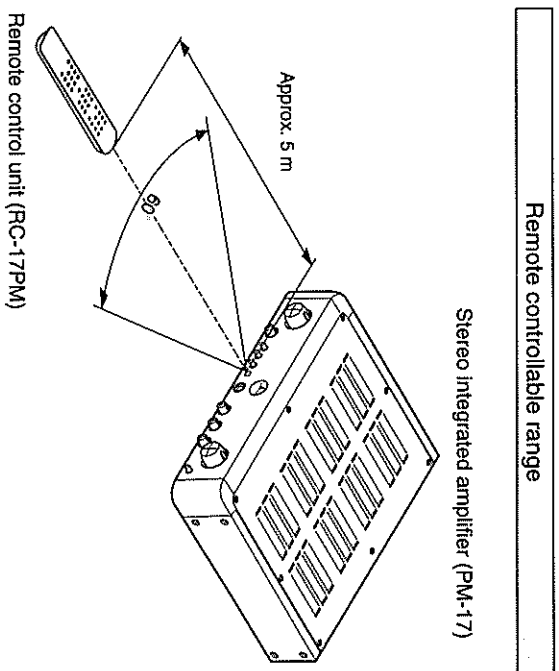
Button functions when the [LINE 3 (DVD)] button is pressed:

Button	Function
▶	Play
▶▶	Fast forward
◀◀	Fast backward
◀▶	Not used.
■	Stop
OPEN/CLOSE	Eject
+	Not used.
-	Not used.
▶▶▶	Skip forward to next chapter
◀◀◀	Skip backward to previous chapter
REPEAT	Repeat
RANDOM	Random play
VOL ▲	Amplifier volume Up
VOL ▼	Amplifier volume Down

HOW TO USE THE REMOTE CONTROL UNIT

1. Remote control unit

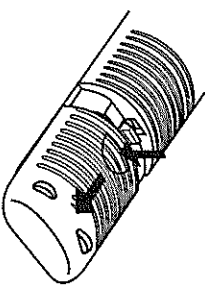
The distance between the signal transmitter of the remote control unit (RC-17PM) and the IR SENSOR of the integrated amplifier (PM-17) should be less than about 5 meters. To ensure remote control, the remote control unit should be pointed accurately toward the IR SENSOR and there should be no obstacle between the remote control unit and the IR SENSOR.



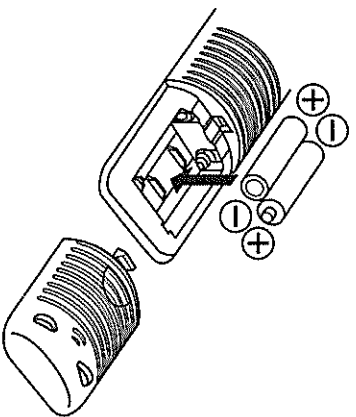
2. Loading batteries

The service life of the batteries used in the remote control unit is about 1 year under normal use. Remove the batteries when the remote control unit is not to be used for a long period of time. Replace batteries early whenever they seem to be weakened.

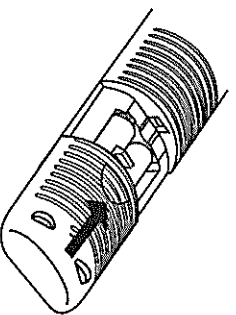
① Remove the back cover.



② Insert batteries with correct ⊕ and ⊖ polarity.



③ Slide close the battery cover until it clicks.



Improper use of batteries may cause the risk of fluid leakage or explosion. Be specially careful in the following points.

- ① Insert the batteries with the correct ⊕ and ⊖ polarity as indicated inside the battery case.
- ② Do not use a brand-new battery and used battery together.
- ③ Dry cell batteries may produce different voltages even when their shapes are the same. Do not use different types of batteries together.
- ④ Some batteries are rechargeable and some are not. Be sure to read the caution and instructions described on each battery.
- ⑤ Used batteries should be disposed of in compliance with the treatment method specified for your local area.

TROUBLESHOOTING

In case of trouble with the set, first check the following before calling for service. What seems to be a serious malfunction is often due to a simple operation mistake. If the trouble still persists after checking, please consult your dealer or nearest MARANTZ service agent.

The amplifier does not function and the warm-up meter lamp does not light.

1. Check if the power cord is plugged properly into an AC power outlet.

The warm-up meter lamp lights but the amplifier will not function.

1. Check the settings of the INPUT SELECTOR switch, REC SELECTOR switch, VOLUME control and SPEAKERS switches.
2. Check that the muting or similar button is not set to ON.

Sound is produced only from one of the speaker systems.

1. Check the setting of the BALANCE control.
2. Turn power of the set off and change the connections of the left and right speaker systems. If sound is still not output from the same speaker system, check its connection cord or the speaker system itself.

Sound is not produced at all.

1. Check the settings of the INPUT SELECTOR and REC SELECTOR switches.
2. Check that at least one of the SPEAKERS switches is pressed in.
3. Check that the MUTING button is not set to on.
4. Check that the speaker cords are connected properly.
5. Check that the connection cords with RCA pin plugs are connected properly.

Sound from the analog turntable is not output or very noisy (hum noise).

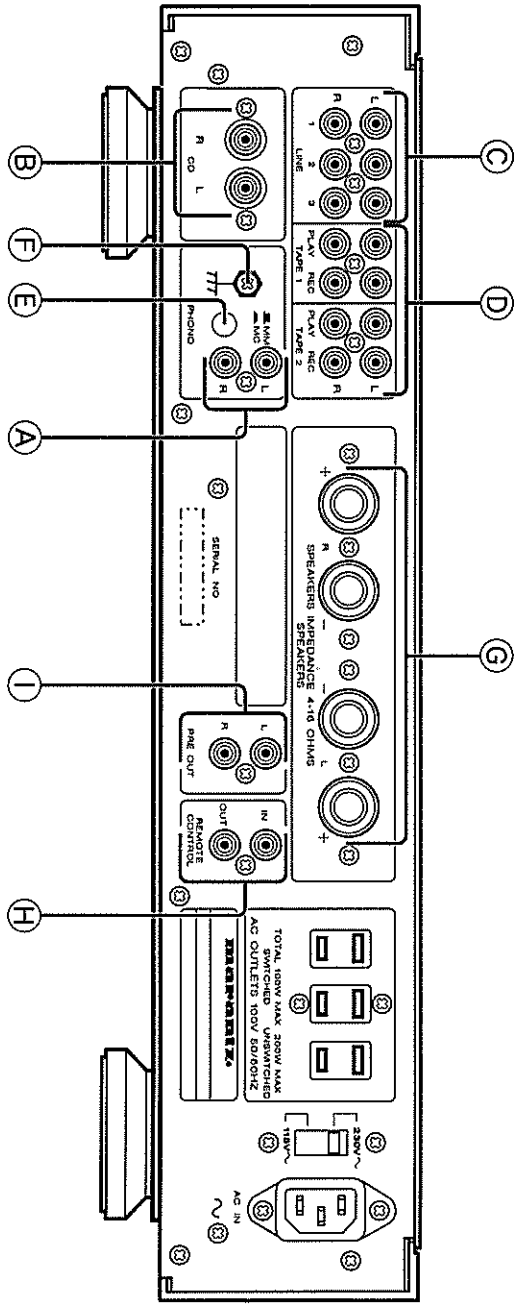
1. Check that the connection to the PHONO jacks is made properly.
2. Connect the grounding wire of the turntable to the GND terminal on the rear panel of the amplifier set. If it has already been connected, try removing it.
3. Check that the cartridge is attached properly to the tone arm.
4. Remove the power plug of the turntable from the power outlet and insert it again by inverting the relationship of the left and right blades with respect to the power outlet slots.

TECHNICAL SPECIFICATIONS (DIN)

Rated power output (20 Hz to 20 kHz, 2CH simultaneous drive)	60 W×2 (8 Ω load) 80 W×2 (6 Ω load) 100 W×2 (4 Ω load)
Total harmonic distortion (20 Hz to 20 kHz, 2CH drive, 8 Ω load)	0.01 %
Cross-modulation distortion (SMPTE)	0.01 %
Output bandwidth (8 Ω load, 0.04 %).	10 Hz to 50 kHz
Frequency response (CD, SOURCE DIRECT)	5 Hz to 60 kHz, +0/-1 dB
Damping factor (8 Ω load, 20 Hz to 10 kHz)	100
Input sensitivity/Input impedance	
PHONE (MC)	200 μV/100 Ω
PHONE (MM)	2.5 mV/47 kΩ
HIGH LEVEL	150 mV/10 kΩ
Maximum allowable PHONE input (1 kHz)	
MC	17 mV
MM	220 mV
R/IAA deviation (20 Hz to 20 kHz)	±0.2 dB
S/N (IHF A network, input shorted)	
PHONE (MC)	76 dB
PHONE (MM)	90 dB
HIGH LEVEL	110 dB
Tone control	
BASS (100 Hz)	±8 dB
TREBLE (10 kHz)	±8 dB
Supply voltage	
/01 version	115/230 V AC, 50/60 Hz
/02 version	230 V AC, 50 Hz
Power consumption	180 W
Dimensions	
Width	458 mm
Height	110 mm
Depth	444 mm
Weight	15.0 kg
Accessories	
Remote control unit (RC-17PM)	× 1
Dimensions	
Width	44 mm
Height	239 mm
Depth	17.5 mm
Weight (without batteries)	189 g
SUM-4 (R6/ "AA" size) dry cell battery	× 2

Design and specifications are subject to change without notice.

/01 Version



/02 Version

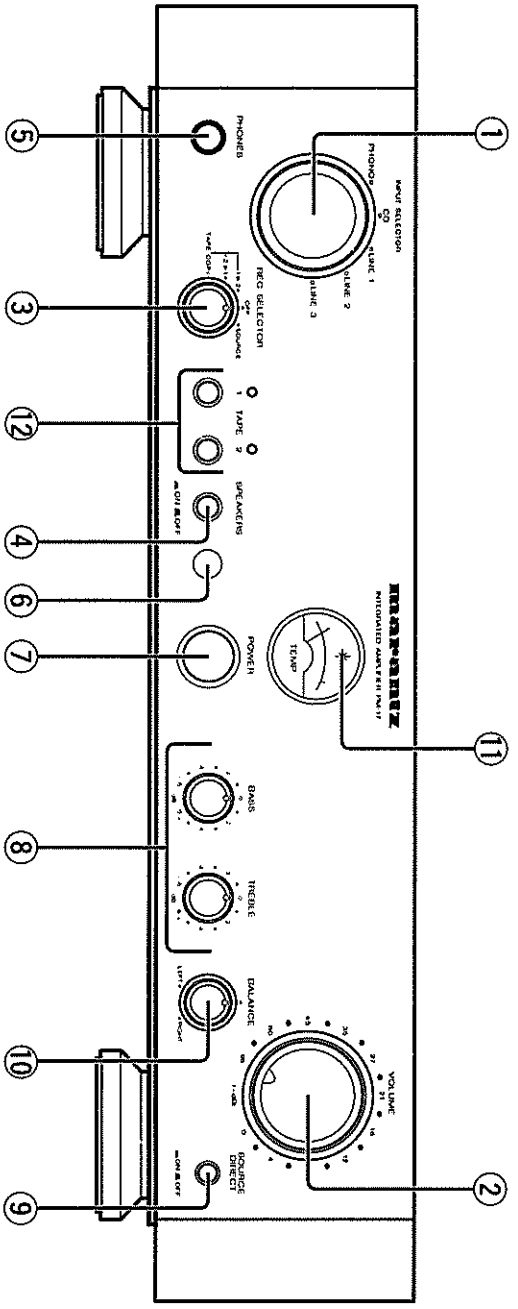
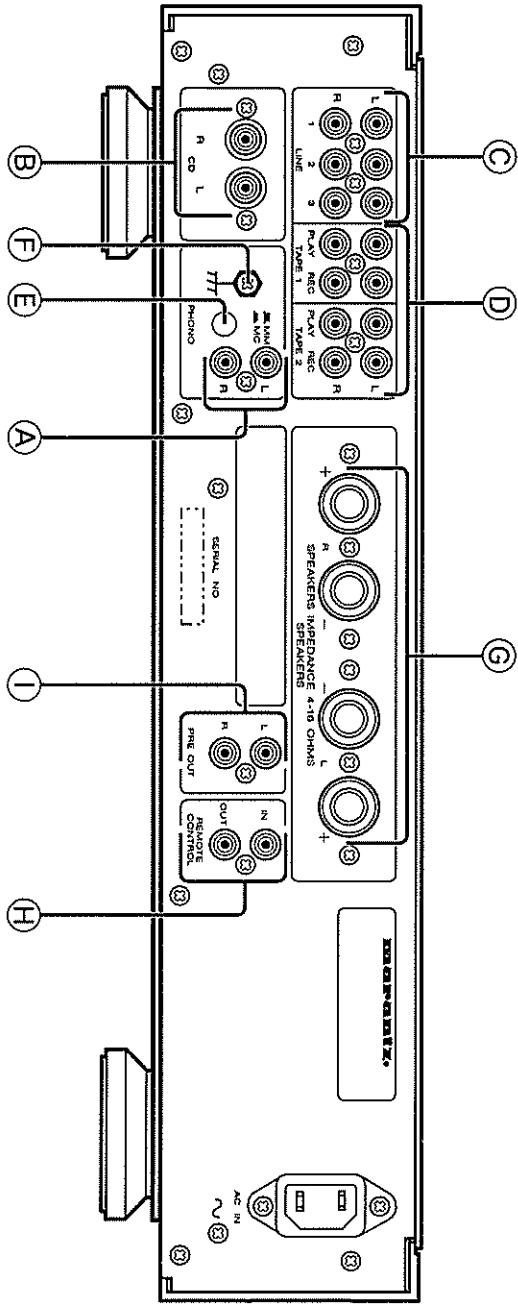


Figure 1

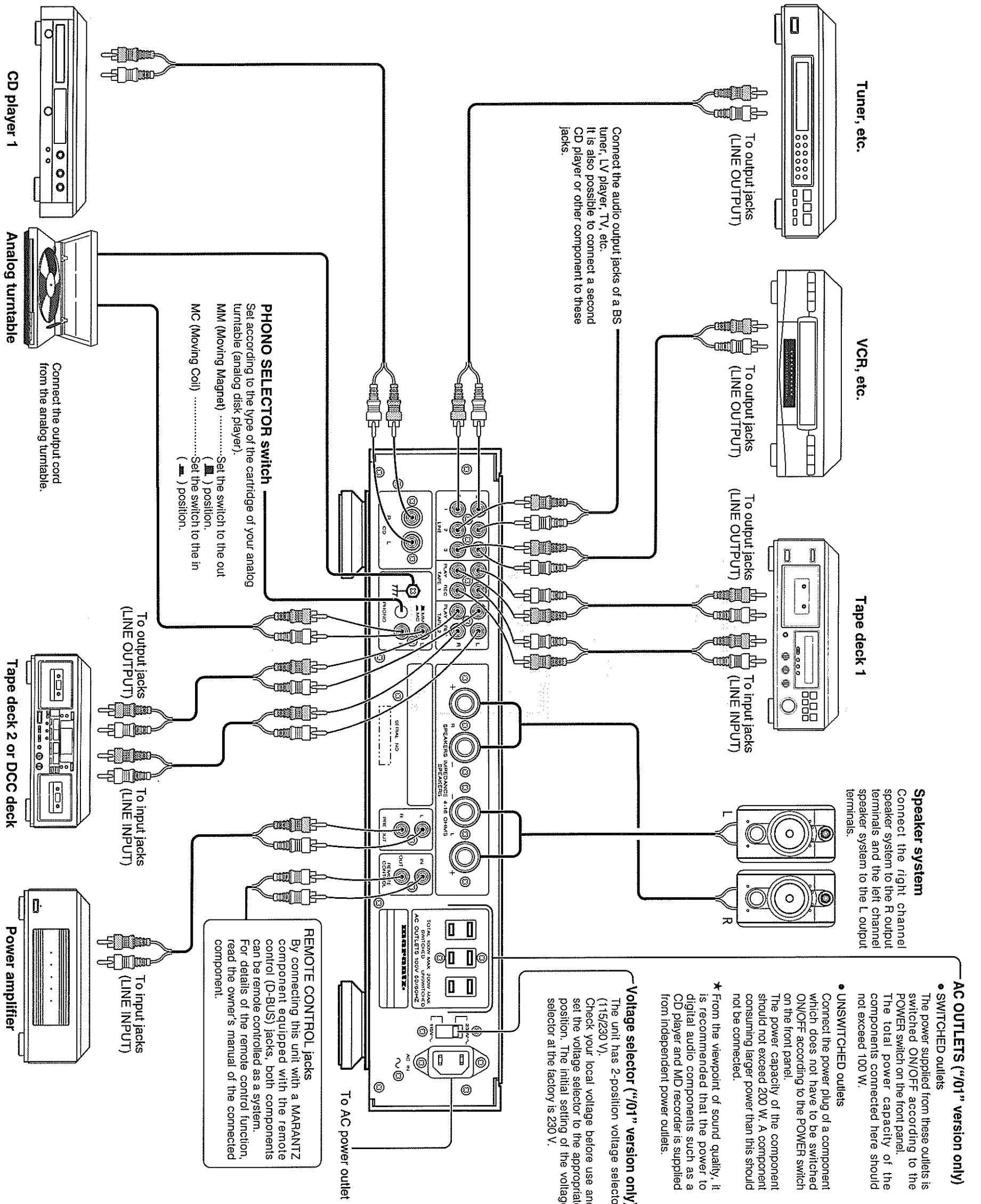


Figure 2

• The audio input/output jacks of a VCR or other component can be connected to TAPE 1 and TAPE 2 as their program sources.

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