Technics[®]

AV control stereo receiver SA-GX190

Operating Instructions



Download from Www.Somanuals.com. All Manuals Search And Download.

Dear Customer

Thank you for purchasing this Technics product. For optimum performance and safety, please read these instructions carefully.

Table of contents

Before use
Precautions 3 Accessories 4 Front panel controls 5
Connections
Equipment connections 6 Antenna connections 7 Speaker connections 9
Listening
Basic operations10To adjust the tone quality11To adjust the sound balance11To mute the sound level11When listening through headphones11Listening to radio broadcasts12Direct access tuning12Sequential tuning13Preset tuning14
Recording
Making a recording 16 Tape recording on the tape deck or digital compact cassette deck (DCC) 16 VCR (VCR 1) recording from an audio source 16
Using the remote control
Remote control operation 17
When there seems to be a problem
Product service 22 Troubleshooting guide 23
Reference
Technical specifications Back cover

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and retain them for future reference.

MODEL NUMBER......SA-GX190

SERIAL NUMBER.....

CAUTION:

This phrase is applied only for U.S.A.:

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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

- Precautions

Before using this unit please read these operating instructions carefully. Take special care to follow the warnings indicated on the unit itself as well as the safety suggestions listed below. Afterwards keep them handy for future reference.

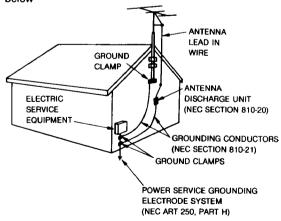
Safety

- Power Source -- The unit should be connected to power supply only of the type described in the operating instructions or as marked on the unit.
- 2. Polarization -- If the unit is equipped with a polarized AC power plug (a plug having one blade wider than the other), that plug will fit into the AC outlet only one way. This is a safety feature If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 3. Power Cord Protection -- AC 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. Never take hold of the plug or cord if your hand is wet, and always grasp the plug body when connecting or disconnecting it.
- 4. Nonuse Periods -- When the unit is not used, turn the power off When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

Installation

Environment

1. 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. 70-1990, 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 below



NEC - NATIONAL ELECTRICAL CODE

- Water and Moisture Do not use this unit near water for example, near a bathtub, washbowl, swimming pool, or the like. Damp basements should also be avoided.
- Heat -- The unit should be situated away from heat sources such as radiators and the like.
 It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).

Placement

- Ventilation -- The unit should be situated so that its location or position does not interfere with its proper ventilation. Allow 10 cm (4") clearance from the rear of the unit.
- Foreign Material -- Care should be taken so that objects do not fall into and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock
- Magnetism -- The unit should be situated away from equipment or devices that generate strong magnetism.
- Stacking -- Do not place heavy objects, other than system components, on top of the unit.
- 5. Surface -- Place the unit on a flat, level surface.
- 6. Carts and Stands -- The unit should be used only with a cart or stand that is recommended by the manufacturer. The unit and cart combination should be moved with care.

 Quick stops, excessive force, and uneven surfaces may cause the unit and cart com-
- Wall or Celling Mounting -- The unit should not be mounted to a wall or ceiling, unless specified in this operating instructions

Maintenance

bination to overturn.

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution.

Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Service

- Damage Requiring Service -- The unit should be serviced by qualified service personnel when:
 - (a) The AC power supply cord or the plug has been damaged,
 - (b) Objects have fallen or liquid has been spilled into the unit;
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not appear to operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped, or the enclosure damaged.
- Servicing -- The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



Listening caution





Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

• Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels* is included for your protection.

*The level used here is different from that displayed on the system's display.

Decibel

Decini	71
Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at
	two feet

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

- 90 Subway, motorcycle, truck traffic, lawn mower
- 100 Garbage truck, chain saw, pneumatic drill
- 120 Rock band concert in front of speakers, thunderclap
- 140 Gunshot blast, jet plane
- 180 Rocket launching pad

Information courtesy of the Deafness Research Foundation.

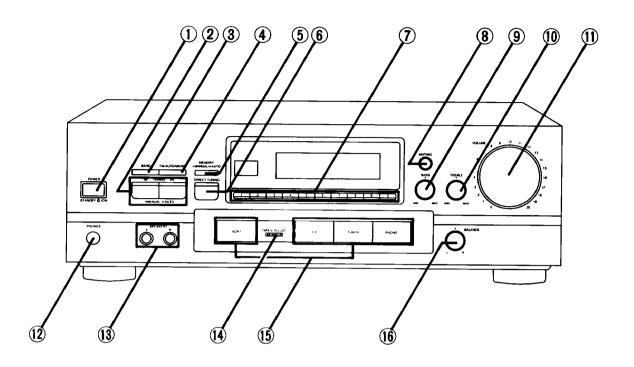
Accessories



Please check and identify the supplied accessories

AC power supply cord
AM loop antenna set (RSA0010) • AM loop antenna
FM indoor antenna (SSA272)1 pc.
Remote control transmitter
(EUR04363U)
Batteries (UM-4, "AAA", R03)

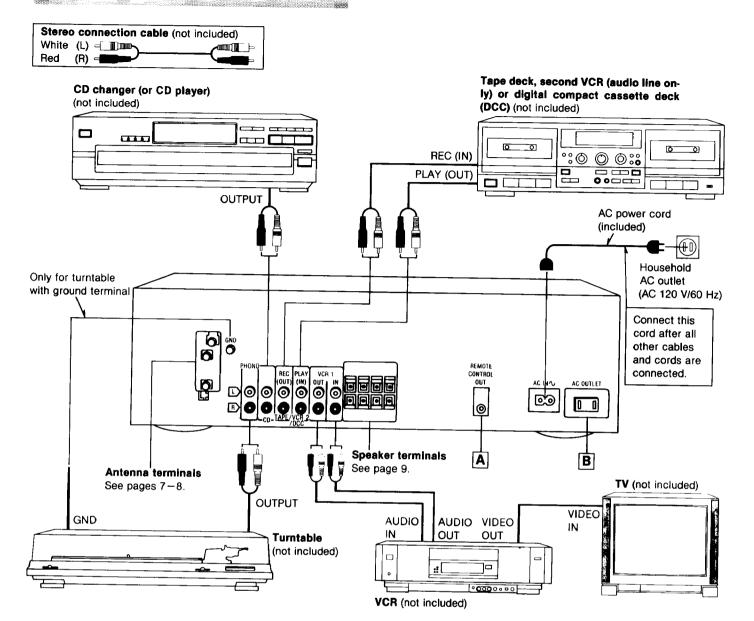
Front panel controls

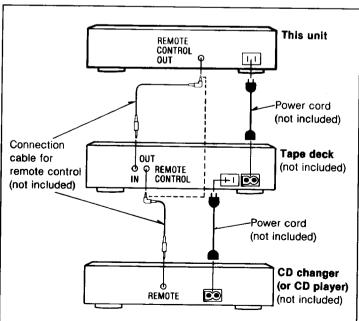


Name	Ref. page
r switch (POWER)	10
g buttons (TUNING)	13
select button (BAND)	12
	12
ory button (MEMORY)	14
•	12
ric buttons (1 – 0)	12,15
g button (MUTING)	11
	r switch (POWER) g buttons (TUNING) select button (BAND) ode select button UTO/MONO) ory button (MEMORY) t tuning button CT TUNING) oric buttons (1-0) g button (MUTING)

Bass control (BASS) Treble control (TREBLE) Volume control (VOLUME)	11
	11
① Volume control (VOLUME)	
	10
① Headphone jack (PHONES)	11
(3) Speaker select buttons (SPEAKERS)	10
(TAPE/VCR 2/DCC monitor button (TAPE/VCR 2/DCC MONITOR)	10,16
(5) Input select buttons	10
(6) Balance control (BALANCE)	11

Equipment connections





A "REMOTE CONTROL OUT" terminal

Connect the connection cable for remote control to a Technics tape deck and/or CD changer (or CD player) which has the appropriate remote control terminal as shown at the left.

If a tape deck is not being used, the CD changer (or CD player) can be connected directly (dotted line).

Note

For a tape deck and/or CD changer (or CD player) with a remote control sensor, this connection is not necessary.

B "SWITCHED" AC outlet

Power to the outlet is controlled by the power switch of this unit. Audio equipment rated up to the indicated power ratings can be connected here.

For proper remote-control operation

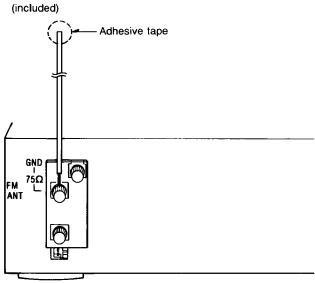
Connect the power cords of the tape deck and CD changer (or CD player) as shown at the left.

Antenna connections

FM indoor antenna (included)

This antenna is normally sufficient for reception of FM broadcasts.

FM indoor antenna



Attach to a wall (using a tape) facing in the direction of best reception.

How to connect an FM indoor antenna 1 Pull off the plastic on the tip of the antenna wire. 2) Twist the wire and connect as shown below. Twist wire

For best reception sound quality:

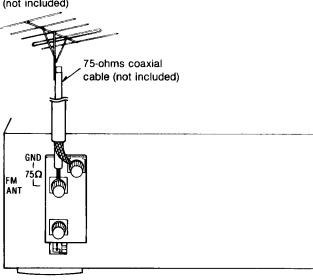
An FM outdoor antenna is recommended. Disconnect the antenna if an FM outdoor antenna is installed.

FM outdoor antenna (not included)

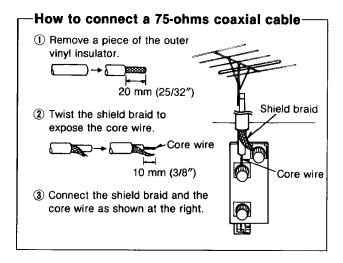
The outdoor antenna should be used when using the main unit in mountainous areas or in spaces enclosed by reinforced concrete where the FM indoor antenna (included) does not provide satisfactory reception.

FM outdoor antenna

(not included)

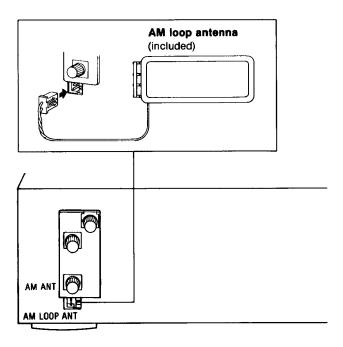


An outdoor antenna should be installed by a qualified technician

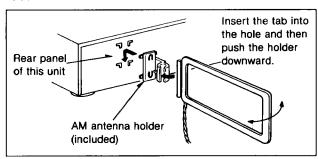


AM loop antenna (included)

This antenna is normally sufficient for reception of AM broadcasts.



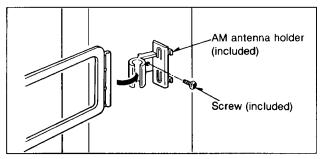
Install the AM antenna holder (included) at the rear panel of this unit and then attach the AM loop antenna to the AM antenna holder.



Pay attention to the following points when mounting the antenna.

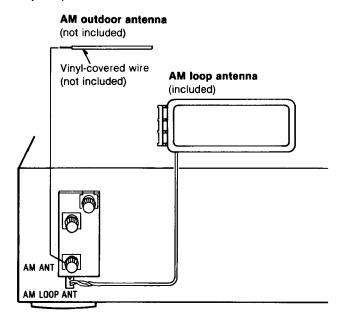
- Do not mount it horizontally (Doing so will impair reception).
- Do not mount it close to power cords, speaker wires or metal surfaces (Doing so will result in noise).
- Do not mount it close to a tape deck. When the tape deck is being used, chirping or beeping sounds may result.

When mounting the antenna to a column, a wall or rack



AM outdoor antenna (not included)

The outdoor antenna should be used when using the main unit in mountainous areas or in spaces enclosed by reinforced concrete where the AM loop antenna (included) does not provide satisfactory reception.



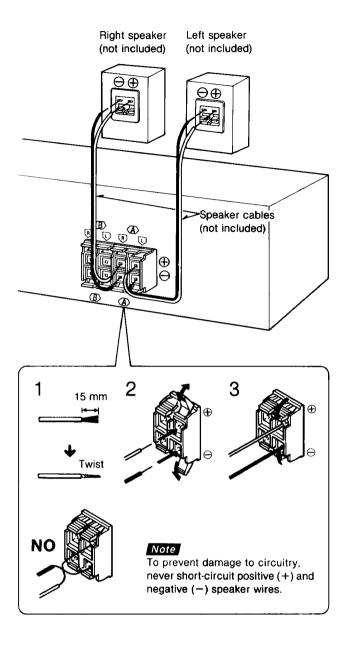
Use 5-12~m (16-40~ft.) of vinyl-covered wire horizontally at the window, or convenient location.

When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.

Note

Be sure to connect the AM loop antenna even when an outdoor antenna is used.

Speaker connections



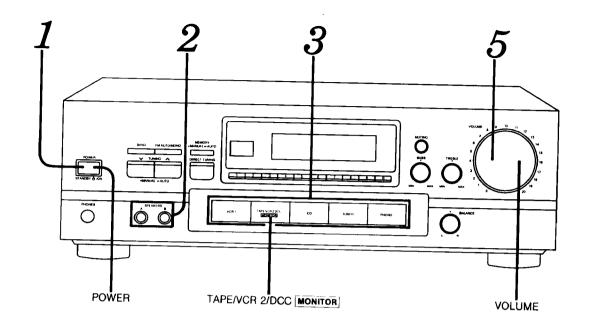
■ "B" terminals

For connection to a second pair of speakers.

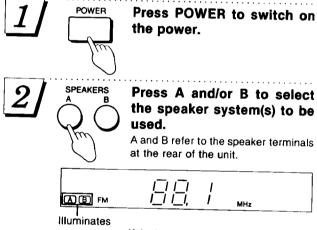
■ Speaker impedance

The impedance of any speaker used with this unit must be 8 ohms.

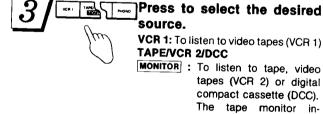
Basic operations



Before operation, set VOLUME to the "0" position.



If the button is pressed once more, the indicator will switch off and no sound will be heard from the speakers.



(See below.)

CD: To listen to compact discs

TUNER: To listen to radio broadcasts

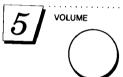
PHONO: To listen to phono discs

dicator will appear.



Start the desired source.

(Refer to the appropriate operating instructions for details.)



Turn VOLUME to adjust the volume level.

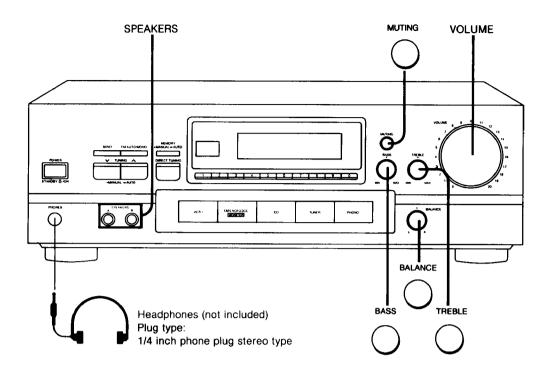
After listening is finished

Be sure to reduce the volume level, and switch the power to the standby condition by pressing POWER.

When tape monitor indicator illuminates or is flashing (approx. 3 seconds)

This indicates that the tape monitor function of this unit is ON. To listen to sources other than a tape, VCR 2 or DCC, be sure to turn off the indicator by pressing TAPE/VCR 2/DCC MONITOR.





To adjust the tone quality

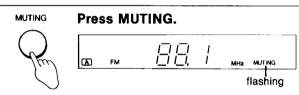


Turn BASS to adjust the low-frequency sound.



Turn TREBLE to adjust the high-frequency sound.

To mute the sound level



Press once again to return to the previous volume level. (The muting indicator will turn off.)

To adjust the sound balance



Turn BALANCE to adjust the left/right sound balance.

When listening through headphones

Use VOLUME to reduce the volume level, and connect the headphones.

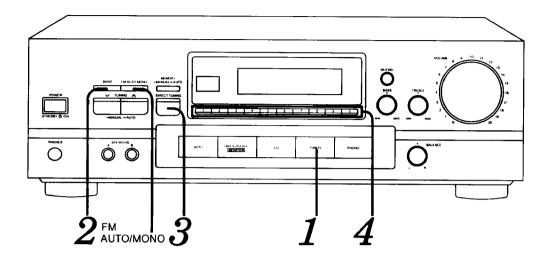
If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker select indicators.

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

Direct access tuning

Specify the frequency using the numeric buttons to directly tune to the desired broadcast station.



1



Press TUNER.



2



Press BAND to select "FM" or "AM".



3



Press DIRECT TUNING.

While cursor display is flashing (approx. 10 seconds)



4



Press the appropriate numeric buttons to enter the frequency.

If the frequency has been input correctly, the frequency display will blink.

Note

- If no button is pressed while the cursor display is flashing, the display will return to the frequency which is currently being received. To respecify the frequency, repeat the procedure from step 3.
- If the frequency has not been input correctly, an error message will be displayed. In this case, re-enter the frequency.

If the desired FM frequency is 107.9 MHz

$$\boxed{1} \rightarrow \boxed{0} \rightarrow \boxed{7} \rightarrow \boxed{9}$$



When the FM stereo broadcast is received:

This unit will automatically switch to FM stereo reception and the FM stereo indicator will illuminate.

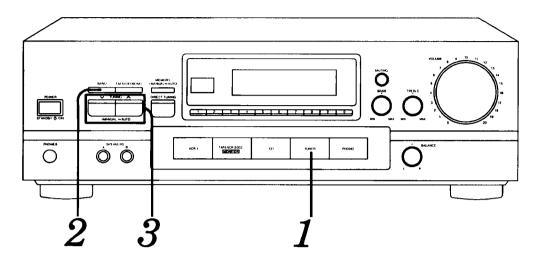


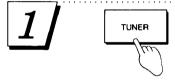
If noise is excessive in the FM stereo mode

Press FM AUTO/MONO. (The FM stereo indicator will switch off.) The broadcast will be monaural, but noise will be reduced. If the button is pressed once more, stereo mode will be resumed.

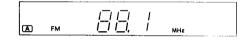
Sequential tuning

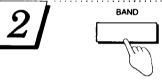
If the frequency is not known, use the tuning control for searching.





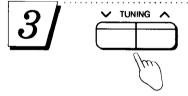
Press TUNER.





Press BAND to select "FM" or "AM".





Press \vee or \wedge to tune to the desired broadcast.

Tuning intervals

FM: 200 kHz interval AM: 10 kHz interval



If either button is pressed and held down until the frequency begins to change, the broadcast stations can be tuned automatically when a broadcast station is found.

Note

Tuning may stop automatically if any jamming is encountered.

Preset tuning

By presetting the desired broadcast stations into the memory channels of this unit, broadcast stations can be selected simply by pressing numeric button(s). (Refer to page 15 for tuning.)

-Before presetting-

How many broadcast stations can be preset?

A total of 30 FM and AM stations can be preset.

How is presetting done?

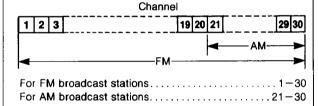
The two following methods are available.

Automatic memory presetting

Automatic memory presetting allows this unit to automatically search for broadcast stations and then preset them into memory.

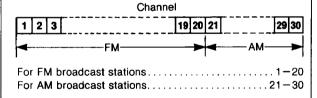
With this function, searching proceeds from the frequency currently being displayed and continues through higher frequencies, (up to 107.9 MHz for FM, up to 1710 kHz for AM) and broadcast stations are preset in the order in which they are located.

With this method, the channel ranges that can be preset into the memory for different bands (FM or AM) are set as follows.



If the FM stations (channels 1-30) are preset and then the AM stations (channels 21-30) are preset:

Because this unit can accommodate a total of 30 preset channels, the settings for FM channels 21 – 30 will be replaced by the AM settings which were subsequently preset, and the channel allotment will be as shown below.



Manual memory presetting

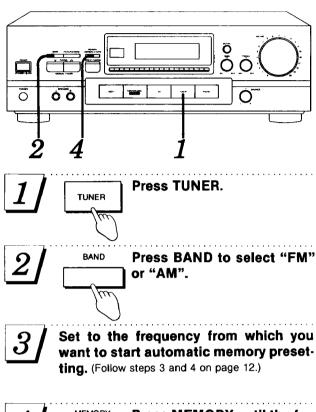
The desired broadcast stations can be preset into the desired channels by the user.

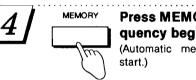
This can also be used as a method for changing selected broadcast stations that were preset in "Automatic memory presetting".

Please remember this:

If a new broadcast station is preset into a channel, the setting for the broadcast station which was previously entered in that channel will be automatically erased.

Automatic memory presetting





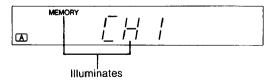
Press MEMORY until the frequency begins to change.

(Automatic memory presetting will start.)

To stop press MEMORY once again.

When a broadcast station is preset

The memory indicator and the preset channel number will be displayed for approximately 1 second.



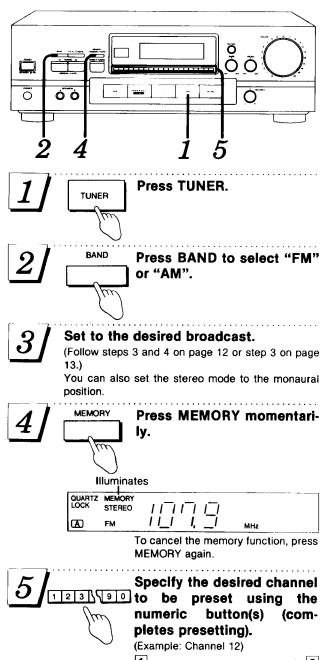
When presetting is completed

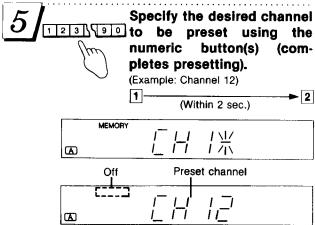
The last broadcast station to be preset will be displayed.

Note

Correct presetting may not be possible in cases where the broadcast waves are too strong or too weak. In such cases, carry out presetting manually.

Manual memory presetting

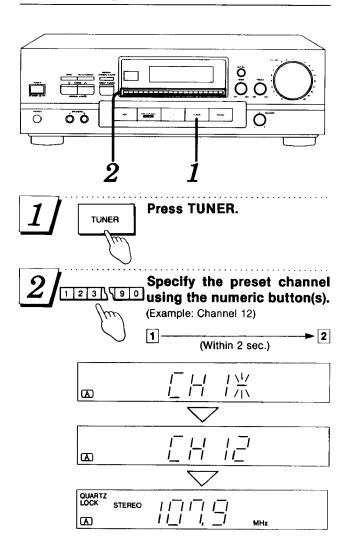




To continue presetting

Repeat steps 2 through 5.

To listen to preset broadcast stations



To confirm the channel number of the broadcast station being received

Press TUNER.

(The channel number will be displayed for about one second.)

Note

The channel number is not displayed if you change the reception frequency or FM mode setting.

For your reference:

Even if the power is switched to the standby condition or the power cord is disconnected from the household AC outlet, the contents of the memory will continue to be stored for approximately one month.

If frequency presettings are accidentally erased

Make the frequency presettings once again.

The power cord should remain connected for one hour or more for the memory back-up to be effective.

Making a recording

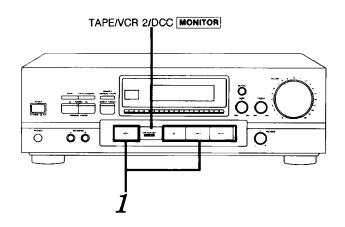
Tape recording on the tape deck or digital compact cassette deck (DCC)

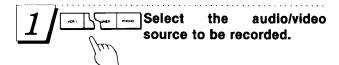
Before recording, prepare the tape deck or DCC for recording (recording level adjustment, etc.).

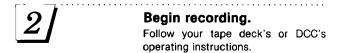
See the tape deck's or DCC's operating instructions for details.

VCR (VCR 1) recording from an audio source

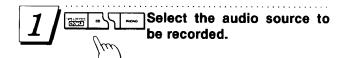
Before recording, prepare the VCR (VCR1) for recording (recording level adjustment, input selector setting, etc.). See the VCR's operating instructions for details.

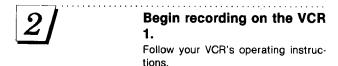














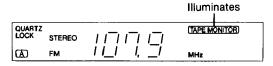
For your reference

When a VCR is connected to the TAPE/VCR 2/ DCC terminals on the rear of this unit, sound recording from an audio or video source can be carried out by the same procedure as given above.

To check the sound recorded while recording is being made

With a tape deck with 3 heads, it is possible to check the sound recorded on the tape.

Press TAPE/VCR 2/DCC MONITOR on this unit and set the monitor button on the tape deck to "TAPE".

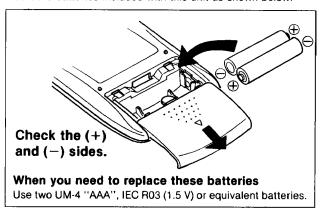


Press TAPE/VCR 2/DCC MONITOR once again to turn it off.

Remote control operation

Battery installation

Insert the batteries included with this unit as shown below.



Use of batteries

Do not mix old and new batteries, or batteries of different types (carbon and alkaline, etc.).

Always remove old, weak or worn-out batteries promptly and dispose of them properly.

The battery life is about one year.

Although the battery life varies depending on how often the device is used, the batteries should be replaced about once every year on the average.

The batteries should be replaced if commands from the remote control transmitter do not operate the unit even when transmitter is held close to the front panel.

Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.

If the remote control is not to be used for a long period of time, remove the batteries and store them in a cool, dark place.

If a battery leaks, remove all batteries and dispose of them properly. Thoroughly clean the battery compartment before inserting new batteries.

If the electrolyte comes into contact with skin or clothes, flush with water immediately.

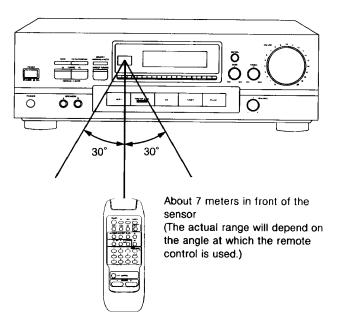
Keep batteries out of reach of children.

Do not use rechargeable (nickel-cadmium) type batteries.

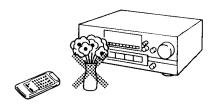
Do not attempt to recharge alkaline or carbon batteries.

Method for use

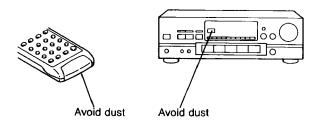
Use the remote control within 60 degrees and within 7 meters (23 ft.) facing directly toward the receiver's remote control signal receptor.



Operation notes



Aim the remote control's transmission window toward the unit's sensor. Avoid any obstacles.



Be sure the transmission window and the unit's sensor are free from dust. Excessive dust might affect performance.

The operation may not be correct if direct sunlight or another strong light source strikes the receiving sensor of this unit. If there is a problem, place the unit away from the light source.

When operating a TV, VCR, digital compact cassette deck (DCC) or a CD changer (or CD player) with a remote control sensor, face this remote control toward the remote control sensor of the unit to be operated.

Remote control operation

This remote control transmitter can be used to operate other units manufactured by this company in addition to this receiver unit, including TVs and VCRs manufactured since 1985, CD changers (or CD players), tape decks and DCC decks.

Preparations before use

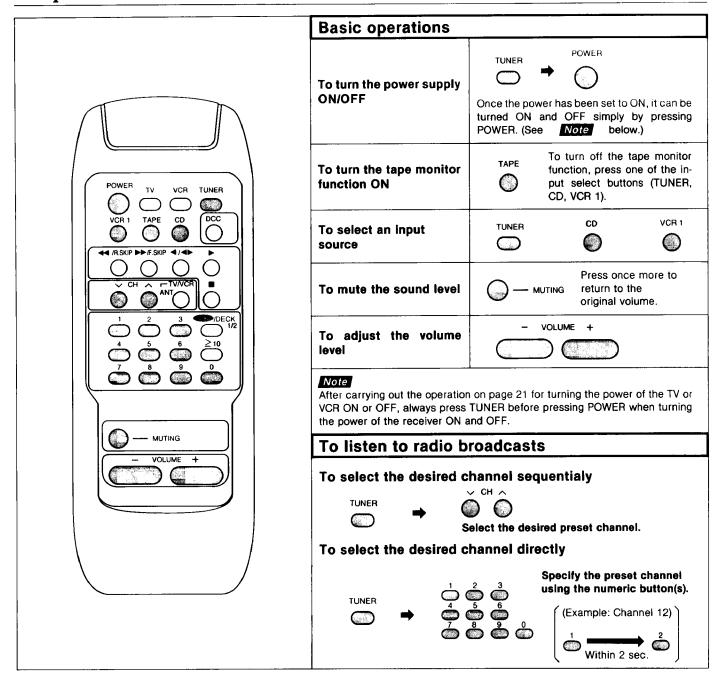
Connect the power cords of a CD changer (or CD player) and a tape deck as shown on page 6.

If the connections are made and the power supply switches of each unit are set to ON, the power supply for each unit will simultaneously turn ON and OFF when the power supply of the receiver is turned ON and OFF.

Note

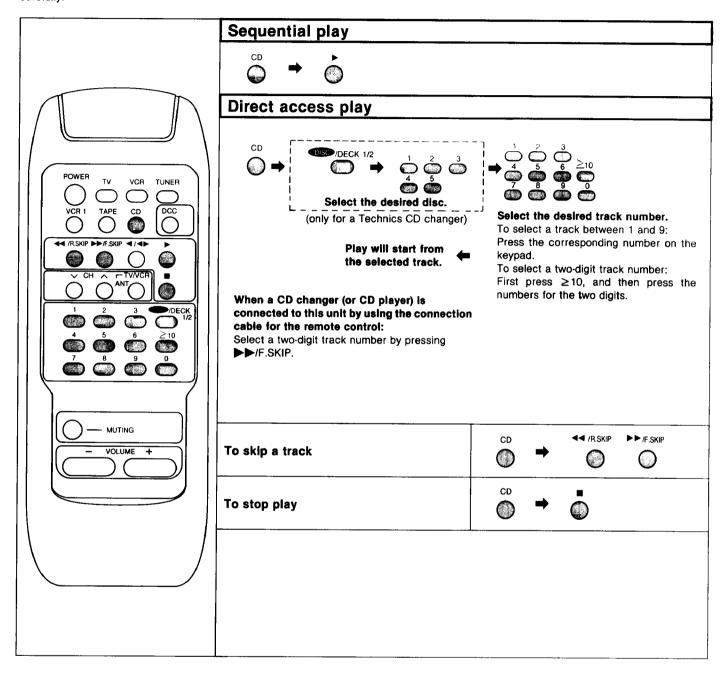
If a tape deck and/or CD changer (or CD player) has the appropriate remote control terminal, be sure to connect the connection cables for the remote control as shown on page 6.

To operate the receiver



To operate a CD changer (or CD player)

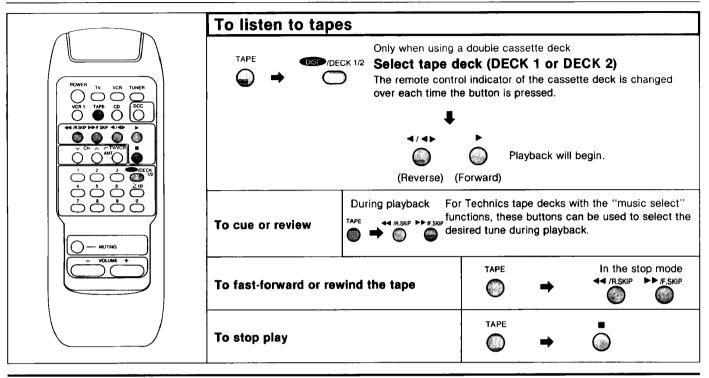
For detailed information concerning CD changer (or CD player) operation, please read the operating instructions for each unit carefully.



Remote control operation

For detailed information concerning tape deck or digital compact cassette deck operation, please read the operating instructions for each unit carefully.

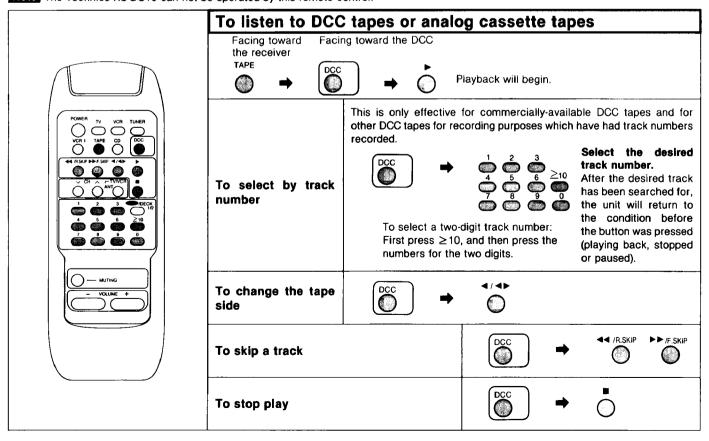
To operate a cassette deck



To operate a digital compact cassette deck (DCC)

The explanation below is an example of operation in the case where a DCC has been connected to the "TAPE/VCR 2/DCC" terminals on the rear of this unit.

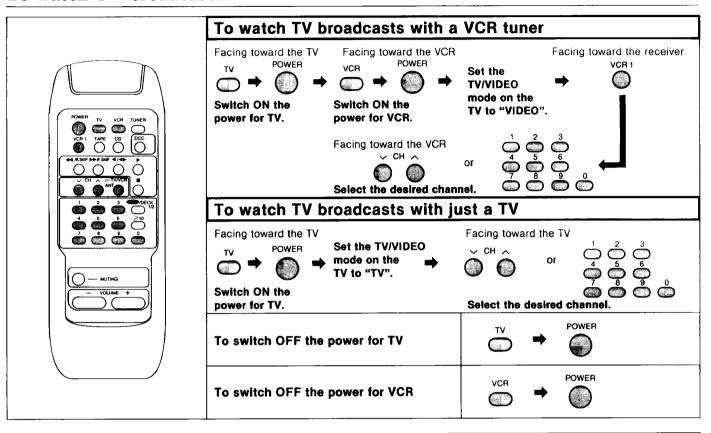
Note The Technics RS-DC10 can not be operated by this remote control.



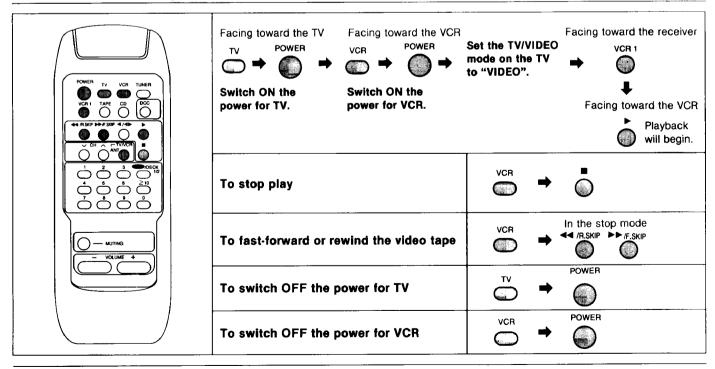
For detailed information concerning TV or VCR operation, please read the operating instructions for each unit carefully.

The explanations below are examples of operation in the case where a TV and VCR have been connected according to the method given on page 6 of these instructions.

To watch TV broadcasts



To watch video tapes



TV/VCR How to use the antenna input selection button

Each time the button is pressed, the antenna input at the VCR changes from "TV" to "VCR" and vice versa.

Remote control operation

Note

If you operate a TV, VCR or alternative CD changer (or CD player) using this remote control, the unit may fail to operate due to the differing nature of the remote control signal.

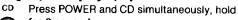
If the remote control fails to operate:

It is necessary to reprogram the signal within the remote control by following this simple procedure.



For CD changer (or CD player) operation

POWER

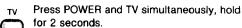






For TV operation

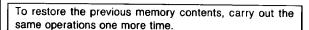
POWER



For VCR operation

POWER

VCR Press POWER and VCR simultaneously, hold for 2 seconds.



Depending on the model, there may be cases where operation is still not possible even if the remote control signal is switched over due to differences in frequency range characteristics.

Product service

Do not attempt to remove the cover(s) or repair the unit yourself. Refer servicing to qualified personnel only.

Product information

For product service, product information or assistance with product operation, refer to the servicenter directory.

Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of authorized service centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

(In U.S.A. consult MSC Authorized Servicenters for detailed instructions.)

Problem	Probable cause(s)	Suggested remedy
While listening to F	M broadcasts	
An unusual hissing noise is heard when listening to the broadcast in stereo, but not heard when listening monaurally.	A slight noise may be heard because the method used for modulation of FM stereo broadcasts is different than that used for monaural broadcasts.	 Try reducing the treble sound by using the treble control. Try changing the location, height and/or direction of the antenna. If an indoor antenna is being used, change to an
Noise is excessive in both stereo and monaural broadcasts.	Poor location and/or direction of the antenna. Transmitting station is too far away.	outdoor antenna. Try using an antenna with more elements.
The FM stereo indicator or the quartz lock indicator flickers, without completely illuminating.	Poor location and/or direction of the antenna. Transmitting station is too far away.	 Try changing the location, height and/or direction the antenna. If an indoor antenna is being used, change to an outdoor antenna. Try using an antenna with more elements.
Excessive distortion in the sound of stereo broad-casts.	Nearby building or mountain.	

While listening to A	NM broadcasts	
An unusual "beat" sound is heard.	Unit is being used at the same time as the television set.	Turn off the television set, or use this unit farther away from it.
	Interference from adjacent broadcast signal.	 Try reducing the treble sound by using the treble control.
A low-pitched "hum" sound is heard when the	The AM loop antenna connection wires are too close to the power cord.	 Place the antenna connection wires and the power cord farther apart.
broadcast is tuned.	The power supply frequency from the power cord is modulated and heard from the speakers.	Install a special outdoor antenna.
A strange hissing noise is produced continuously or intermittently.	Caused by the "discharge phenomenon" and the "oscillation phenomenon" of electric appliances (such as fluorescent lights, TV, small series-type motors, rectification equipment, etc.).	 Try placing this unit farther away from such equipment. Install noise-prevention equipment on this unit or on the electric appliance.

Problems noted at	all times	
Power will not switch ON.	The power cord plug is not completely inserted.	Confirm that the power cord plug is connected completely.
No sound is heard when the power is switched ON.	Connections are incomplete or incorrect to the speaker systems, etc.	Check to be sure that all connection wires are correctly connected.
	The incorrect input selector has been pressed.	Check to be sure that the correct selector is pressed.
	The speaker select indicators are turned off.	Turn on the speaker select indicator(s).
Sound stops during a performance, or no sound is heard when the power is switched ON. (The word "OVERLOAD" appears on the display.)	The protection circuitry has functioned because the positive and negative speaker connection wires are "shorted", speaker systems with an impedance less than the indicated rated impedance of this unit are used or under severe use, such as loud volume, excessive power and in an excessively hot environment.	 Switch off the power, and after determining and correcting the cause, switch on the power once again. Use a speaker system of the proper impedance rating.
Remote control transmitter does not function.	Batteries are incorrectly installed.	 Insert the batteries so that the positive (+) and negative (-) polarities are correct.
	The remote control transmitter batteries are drained.	Replace them with new batteries.
·	There is an obstruction between the remote control transmitter and the receiver, TV or VCR.	Remove the obstruction.
	The remote control transmitter is not correctly facing the receiver, TV or VCR.	Face the remote control transmitter correctly toward the signal receptor of each unit.

Technical specifications (IHF'78)

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output 40 Hz-20 kHz both channels driven 0.8% total harmonic distortion

10	00 W per channel (8 Ω)
1 kHz continuous power output	
both channels driven	
0.8% total harmonic distortion	103 W per channel (8 Ω)
Total harmonic distortion	
rated power at 40 Hz - 20 kHz	0.8% (8 Ω)
half power at 1 kHz	0.07% (8 Ω)
Dynamic headroom (Power ampl	
SMPTE intermodulation distortion	on 0.5% (8 Ω)
Frequency response	NAA -4
	RIAA standard curve ±0.8 dB
CD, VCR 1, TAPE/VCR 2/DCC Input sensitivity	10 Hz – 70 kHz, ±3 dB
PHONO	0.4 mV (3 mV, IHF '66)
CD, VCR 1, TAPE/VCR 2/DCC	27 mV (200 mV, IHF '66)
S/N (IHF, A)	27 1114 (200 1114, 1111 00)
PHONO	68 dB (71 dB, IHF '66)
CD, VCR 1, TAPE/VCR 2/DCC	70 dB (85 dB, IHF '66)
Input impedance	
PHONO	47 kΩ
CD, VCR 1, TAPE/VCR 2/DCC	22 kΩ
Tone controls	
BASS	50 Hz, +10 dB to -10 dB
TREBLE	20 kHz, +10 dB to -10 dB
Low frequency damping factor	30 (8 Ω)
Load impedance	
A or B	Ω8
A and B	8 Ω

FM TUNER SECTION

Frequency range Sensitivity	87.9 – 107.9 MHz 11.2 dBf (2 μV, IHF '58)
50 dB quieting sensitivity MONO STEREO	18.3 dBf (4.5 μV, IHF '58) 38.3 dBf (45 μV, IHF '58)
Total harmonic distortion MONO STEREO	0.2% 0.3%
S/N MONO STEREO	75 dB 70 dB
Frequency response Alternate channel selectivity Capture ratio	20 Hz-15 kHz, +1 dB, -2 dB 65 dB 1 dB
Image rejection at 98 MHz IF rejection at 98 MHz	45 dB 80 dB
Spurious response rejection a AM suppression Stereo separation	at 98 MHz 75 dB 50 dB
1 kHz 10 kHz	40 dB 30 dB
Carrier leak 19 kHz 38 kHz	-35 dB -50 dB
Antenna terminal	75 Ω (unbalanced)

AM TUNER SECTION

Frequency range	530 – 1710 kHz
Sensitivity	20 μV, 330 μV/m
Selectivity	55 dB
lmage rejection at 1000 kHz	40 dB
IF rejection at 1000 kHz	60 dB

■ GENERAL

Power consumption 160 W AC 120 V, 60 Hz Power supply Dimensions (W \times H \times D) 430 × 136 × 305 mm $(16-15/16" \times 5-11/32" \times 12")$ Weight 6.6 kg (14.5 lb.)

- 1. Specifications are subject to change without notice. Weight and dimensions are approximate.
- 2. Total harmonic distortion is measured by the digital spectrum analyzer.

Matsushita Consumer Electronics Company, Division of Matsushita **Electric Corporation of America** One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. ("PSC") Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park, Carolina,

Puerto Rico 00985

Matsushita Electric of Canada Limited 5770 Ambler Drive, Mississauga, Ontario L4W 2T3

RQT2694-P

Printed in Singapore

H1094J0

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com