

# YAMAHA RX-485/385

*Natural Sound Stereo Receiver*

*65W + 65W (8Ω) RMS Output Power, 0.04% THD, 20 – 20,000 Hz (RX-485)*

*45W + 45W (8Ω) RMS Output Power, 0.04% THD, 20 – 20,000 Hz (RX-385)*

*High Dynamic Power, Low Impedance Drive Capability*

*Continuously Variable Loudness Control*

*40-Station Random Preset Tuning*

*Automatic Preset Tuning*

*Preset Station Shifting Capability*

*IF Count Direct PLL Synthesizer Tuning System*

*Remote Control Capability*

*Pure Direct Switch to Reproduce the Purest Source Sound (RX-485 Only)*

Thank you for selecting this YAMAHA stereo receiver.



## OWNER'S MANUAL

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#### IMPORTANT!

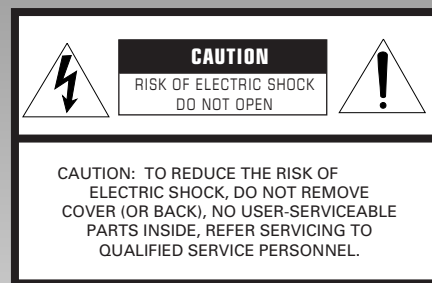
Please record the serial number of this unit in the space below.

Model:  
Serial No.:

The serial number is located on the rear of the unit.  
Retain this Owner's Manual in a safe place for future reference.

#### WARNING

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



#### • Explanation of Graphical Symbols




The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you 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.



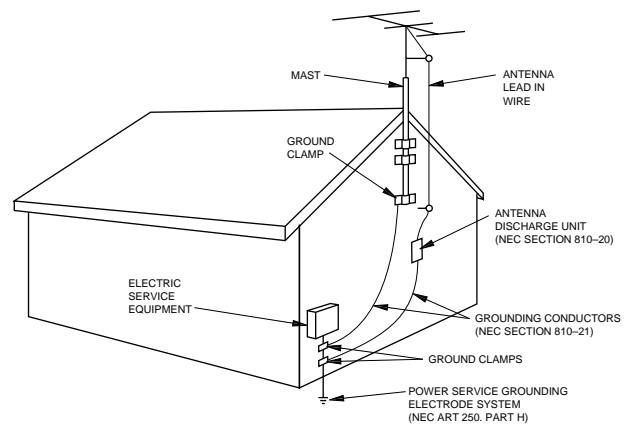
The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# SAFETY INSTRUCTIONS (U.S.A.)

- 1 Read Instructions – All the safety and operating instructions should be read before the unit is operated.
  - 2 Retain Instructions – The safety and operating instructions should be retained for future reference.
  - 3 Heed Warnings – All warnings on the unit and in the operating instructions should be adhered to.
  - 4 Follow Instructions – All operating and other instructions should be followed.
  - 5 Water and Moisture – The unit should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
  - 6 Carts and Stands – The unit should be used only with a cart or stand that is recommended by the manufacturer.
  - 6A A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.
- 
- 7 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
  - 8 Ventilation – The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit 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 unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
  - 10 Power Sources – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
  - 11 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 unit.
  - 12 Cleaning – The unit should be cleaned only as recommended by the manufacturer.
  - 13 Nonuse Periods – The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
  - 14 Object and Liquid Entry – Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
  - 15 Damage Requiring Service – The unit should be serviced by qualified 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 unit; or
    - 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 cabinet damaged.

- 16 Servicing – The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17 Power Lines – An outdoor antenna should be located away from power lines.
- 18 Grounding or Polarization – Precautions should be taken so that the grounding or polarization is not defeated.
- 19 Outdoor Antenna Grounding – If an outside antenna is connected to this unit, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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.

EXAMPLE OF ANTENNA GROUNDING



## Note to CATV system installer (U.S.A.):

This reminder is provided to call the CATV system installer's attention to Article 820-40 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.

## CAUTION: READ THIS BEFORE OPERATING YOUR UNIT

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this unit in a cool, dry, clean place – away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electrical shock, do not expose the unit to rain or water.
- 3 Never open the cabinet. If something drops into the set, contact your dealer.
- 4 Do not use force on switches, controls or connection wires. When moving the unit, first disconnect the power plug and the wires connected to other equipment. Never pull the wires themselves.
- 5 The openings on the cabinet assure proper ventilation of the unit. If these openings are obstructed, the temperature inside the cabinet will rise rapidly and eventually damage the circuits. Therefore, avoid placing objects against these openings and do not install the unit where the flow of air through the ventilation openings could be impeded.
- 6 Always set the VOLUME control to “– ∞” before starting the audio source play. Increase the volume gradually to an appropriate level after playback has been started.
- 7 Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 8 Be sure to read the “TROUBLESHOOTING” section regarding common operating errors before concluding that the unit is faulty.
- 9 When not planning to use this unit for long periods of time (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
- 10 To prevent lightning damage, disconnect the AC power plug and disconnect the antenna cable when there is an electrical storm.
- 11 Grounding or polarization – Precautions should be taken so that the grounding or polarization of an appliance is not defeated.
- 12 AC outlet  
Do not connect audio equipment to the AC outlet on the rear panel if that equipment requires more power than the outlet is rated to provide.

### FCC INFORMATION (U.S.A.)

#### 1. IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. **IMPORTANT** : When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. **NOTE** : This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class “B” digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit “OFF” and “ON”, please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

## We Want You Listening For A Lifetime (U.S.A.)

YAMAHA 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. Since hearing damage from loud sounds is

often undetectable until it is too late, YAMAHA and the Electronic Industries Association’s Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



This product complies with the radio frequency interference requirements of the Council Directive 82/499/EEC and/or 87/308/EEC.

The apparatus is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the apparatus itself is turned off.

### For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

**Note:** The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

### SPECIAL INSTRUCTIONS FOR U.K. MODEL

**IMPORTANT:**

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

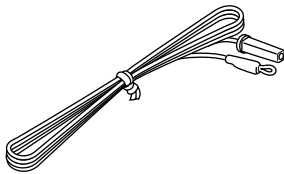
Blue: NEUTRAL  
Brown: LIVE

The colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug. Proceed as follows: the wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

### SUPPLIED ACCESSORIES

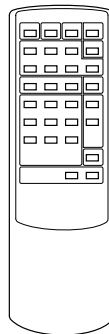
After unpacking, check that the following parts are contained.

Indoor FM Antenna

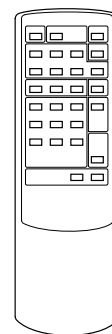


Remote Control Transmitter

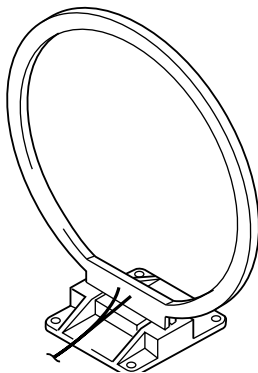
**RX-485**



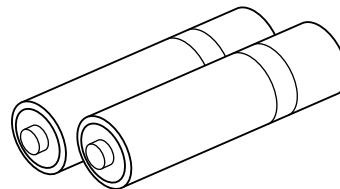
**RX-385**



AM Loop Antenna



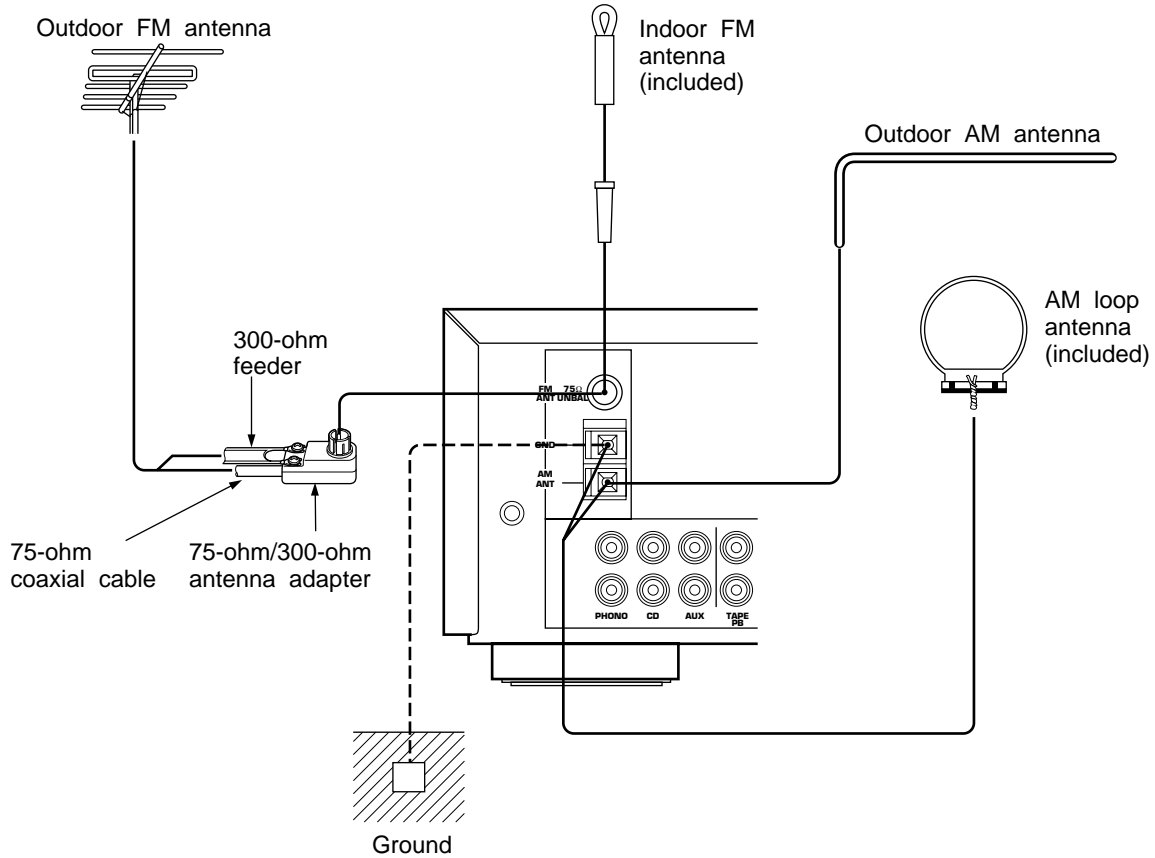
Batteries (size AA, R6, UM-3)



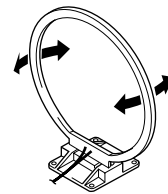
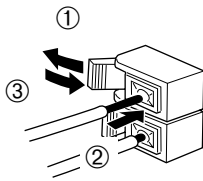
# CONNECTIONS

## ANTENNA CONNECTIONS

- Each antenna should be connected to the designated terminals correctly, referring to the following figure.
- Both AM and FM indoor antennas are included with this unit. In general, these antennas will probably provide sufficient signal strength. Nevertheless, a properly installed outdoor antenna will give clearer reception than an indoor one. If you experience poor reception quality, an outdoor antenna may result in improvement.



### Connecting the AM loop antenna



- \* The AM loop antenna should be placed apart from the main unit. The antenna may be hung on a wall.
- \* The AM loop antenna should be kept connected, even if an outdoor AM antenna is connected to this unit.

### GND terminal

For maximum safety and minimum interference, connect the **GND** terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth.

### Notes

- When connecting the indoor FM antenna, make sure that the grooved part of the connector hole is facing downward.
- If you need an outdoor FM antenna to improve FM reception quality, either 300-ohm feeder or coaxial cable may be used. In locations troubled by electrical interference, coaxial cable is preferable.

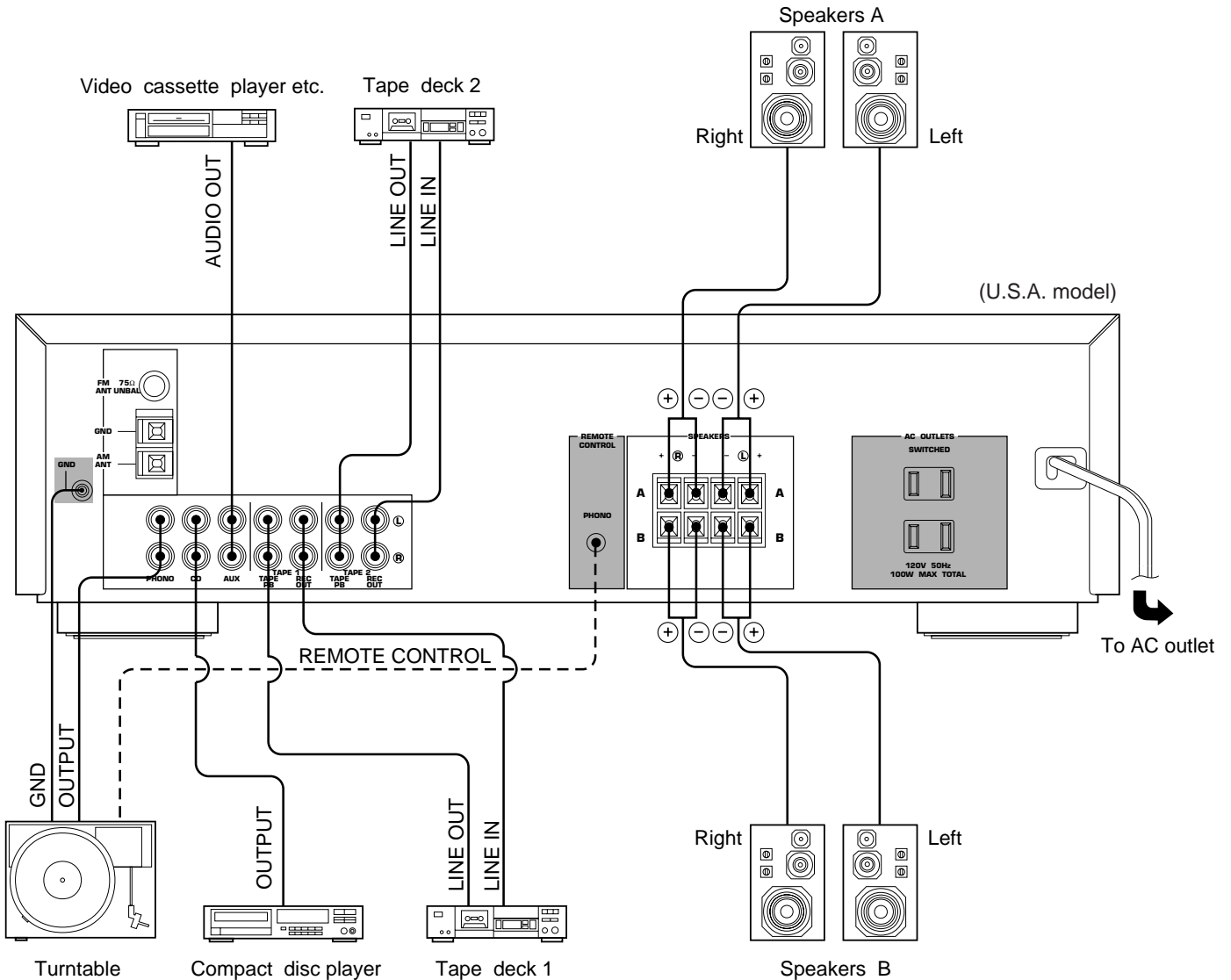


Before attempting to make any connections to or from this unit, be sure to first switch OFF the power to this unit and to any other components to which connections are being made.

## AUDIO CONNECTIONS

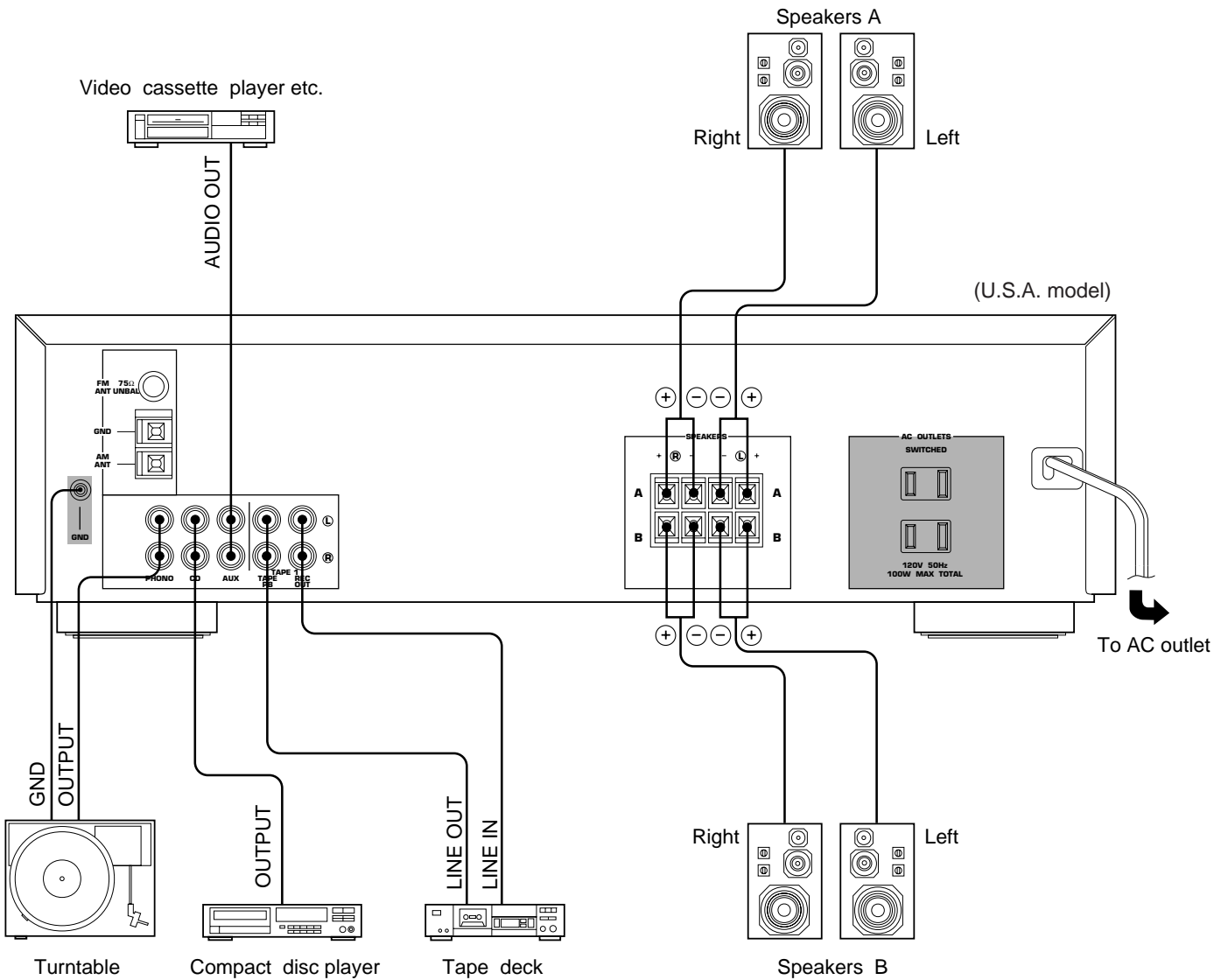
When making connections between this unit and other components, be sure all connections are made correctly, that is to say L (left) to L, R (right) to R, “+” to “+” and “-” to “-”. Also, refer to the owner’s manual for each component to be connected to this unit.

### RX-485



\*  : Refer to “**ABOUT THE ACCESSORY TERMINALS**” on page 8.

# RX-385



\*  : Refer to "ABOUT THE ACCESSORY TERMINALS" on page 8.

## CONNECTING SPEAKERS

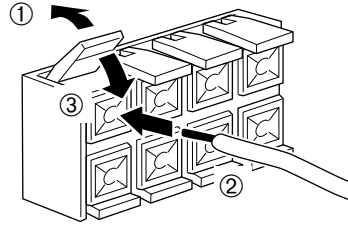
Connect the **SPEAKERS** terminals to your speakers with wire of the proper gauge, cut to be as short as possible. If the connections are faulty, no sound will be heard from the speakers. Make sure that the polarity of the speaker wires is correct, that is, + and – markings are observed. If these wires are reversed, the sound will be unnatural and will lack bass.

**Do not let the bare speaker wires touch each other and do not let them touch the metal parts of this unit as this could damage this unit and/or speakers.**

- One or two speaker systems can be connected to this unit. If you connect only one speaker system, connect it to either the **SPEAKERS A** or **B** terminals.
- Use speakers with the specified impedance shown on the rear of this unit.

### How to Connect:

Red: positive (+)  
Black: negative (–)



- ① Press up the tab.
- ② Insert the bare wire.  
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Press down the tab and secure the wire.

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## ABOUT THE ACCESSORY TERMINALS

### AC OUTLET(S)

(U.S.A., Canada and General models)

.....2 SWITCHED OUTLETS

(Australia and U.K. models).....1 SWITCHED OUTLET

Use these to connect the power cords from your components to this unit.

The power to the **SWITCHED** outlets is controlled by this unit's **POWER** switch or the provided remote control transmitter's **POWER** key. These outlets will supply power to any component whenever this unit is turned on.

The maximum power (total power consumption of components) that can be connected to the **SWITCHED AC OUTLET(S)** is 100 watts.

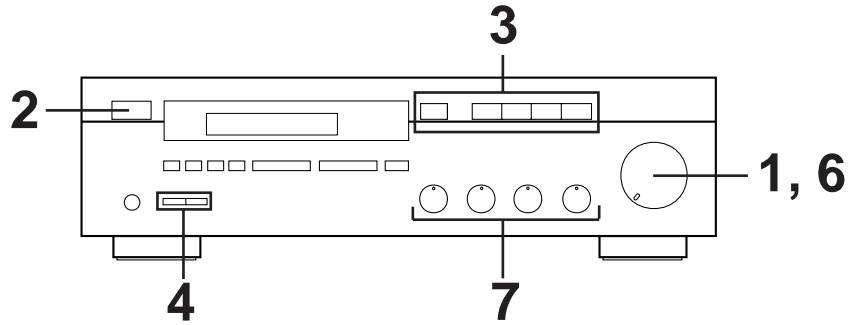
### REMOTE CONTROL (PHONO) connector

#### **RX-485 only**

If you have a YAMAHA turntable with a terminal for remote control, connect it to this connector by using the cable provided with the turntable. This connection allows you to control the turntable from the provid



# OPERATIONS



## TO PLAY A SOURCE

**1** **VOLUME**

Set to the "∞" position.

**2** **POWER**

**3** Select a desired input source.

**RX-485**

— MONITOR — INPUT

TAPE 2 TAPE 1 AUX TUNER CD PHONO

**RX-385**

TAPE MONITOR INPUT

AUX TUNER CD PHONO

**4** Select the speakers to be used.

**SPEAKERS**

A B

ON ON

OFF OFF

\* If you use two speaker systems, press both the A and B switches.

**5** Play the source. (For detailed information on the tuning operations, refer to the page 12.)

**6** **VOLUME**

Adjust to the desired output level.

**7** If desired, adjust the **BASS, TREBLE, BALANCE** and **LOUDNESS** controls, etc. (Refer to page 11.)

- \* The name of the selected input source will appear in the display.
- \* Note that pressing on each input selector button selects the source which is connected to the corresponding input terminals on the rear panel.

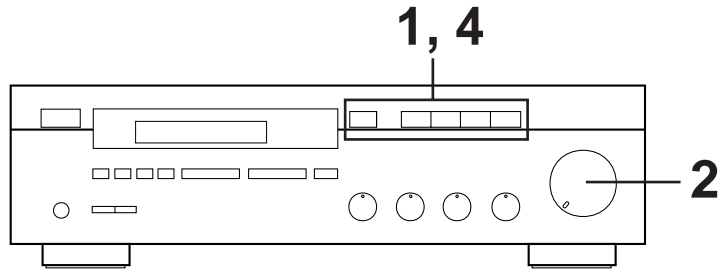
### Notes

#### **RX-485 only**

- If you select **AUX, TUNER, CD** or **PHONO**, be sure that **TAPE 1** and/or **TAPE 2** are not being selected.
- If you select **TAPE 1** and **TAPE 2** at the same time, the result will be the sound from the tape deck 1.
- For **TAPE 1** and **TAPE 2**, whenever the button is pressed, the corresponding input source is selected or canceled alternately.

#### **RX-385 only**

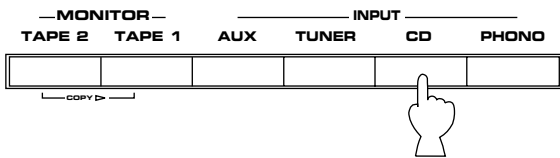
- If both **TAPE MONITOR** and another input selector button are selected, **TAPE MONITOR** has priority.



## TO RECORD A SOURCE TO TAPE

### RX-485

- 1 Select the source to be recorded.

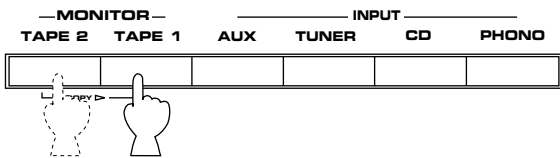


- \* To dub from tape to tape, refer to the "Notes" shown below.
- \* When you select **AUX**, **TUNER**, **CD** or **PHONO**, be sure that **TAPE 1** and/or **TAPE 2** are not also selected.

- 2 Play the source and then turn the **VOLUME** control up to confirm the input source. (For detailed information on the tuning operations, refer to the page 12.)

- 3 Begin recording on the tape deck.

- 4 To monitor the audio signals being recorded, press the input selector button for the tape deck being used to make the recording.



#### Notes

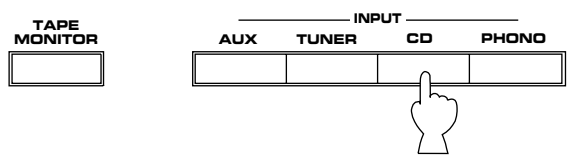
- **VOLUME**, **BASS**, **TREBLE**, **BALANCE** and **LOUDNESS** control settings have no effect on the material being recorded.
- To dub from tape to tape, only the following method of dubbing can be performed.

SOURCE	RECORDER
Tape deck connected to the TAPE 2 terminals.	→ Tape deck connected to the TAPE 1 terminals.

## TO RECORD A SOURCE TO TAPE

### RX-385

- 1 Select the source to be recorded.

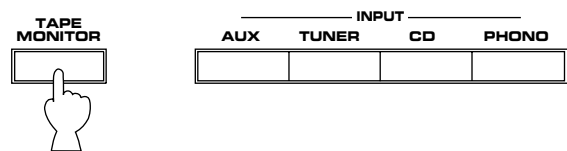


- \* When you select **AUX**, **TUNER**, **CD** or **PHONO**, be sure that **TAPE MONITOR** is not also selected.

- 2 Play the source and then turn the **VOLUME** control up to confirm the input source. (For detailed information on the tuning operations, refer to the page 12.)

- 3 Begin recording on the tape deck.

- 4 To monitor the audio signals being recorded, press the **TAPE MONITOR**.

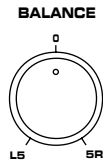


#### Note

**VOLUME**, **BASS**, **TREBLE**, **BALANCE** and **LOUDNESS** control settings have no effect on the material being recorded.

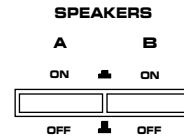
## Adjusting the BALANCE control

Adjust the balance of the output volume to the left and right speakers to compensate for sound imbalance caused from speaker location or listening room conditions.

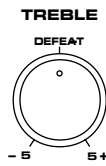
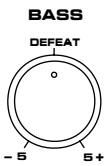


## Selecting the SPEAKER system

Because one or two speaker systems can be connected to this unit, the **SPEAKERS** switches allow you to select speaker system **A** or **B**, or both at once.



## Adjusting the BASS and TREBLE controls



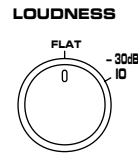
**BASS** : Turn this clockwise to increase (or counter-clockwise to decrease) the low frequency response.

**TREBLE** : Turn this clockwise to increase (or counter-clockwise to decrease) the high frequency response.

## Adjusting the continuously variable LOUDNESS control

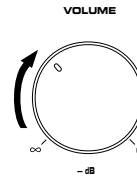
This control provides compensation for the human ears' loss of sensitivity to high and low-frequency ranges at low volume. This control is adjustable to retain full tonal range at any volume level.

1



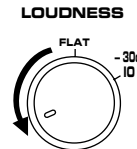
Set to the "FLAT" position.

2



Set to the loudest listening level that you would listen to.

3

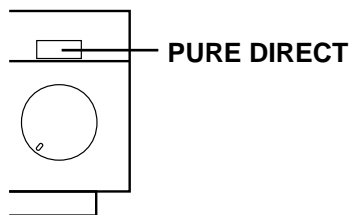


Turn so that the desired volume can be achieved.

## Using the PURE DIRECT switch

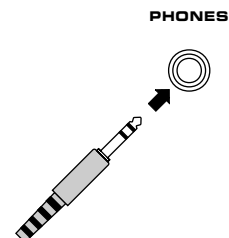
### RX-485 only

You can enjoy the purest possible sound from your audio sources by setting this switch ON. By doing so, the audio signal bypasses the **BASS**, **TREBLE**, **BALANCE** and **LOUDNESS** controls, eliminating any alterations to the audio signal.



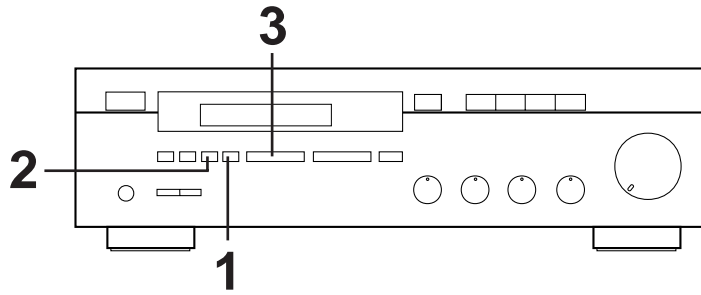
## When you listen with headphones

Connect the headphones to the **PHONES** jack. When listening with headphones privately, set both the **SPEAKERS A** and **B** switches to the **OFF** position.



# TUNING OPERATIONS

Normally, if station signals are strong and there is no interference, quick automatic-search tuning (AUTOMATIC TUNING) is possible. However, if signals of the station you want to select are weak, you must tune to it manually (MANUAL TUNING).



## AUTOMATIC TUNING

- 1** Select the reception band (FM or AM) while watching the display.
- 2**
- 3**

To tune to a higher frequency, press the right side once.  
To tune to a lower frequency, press the left side once.

  - \* If the station where tuning search stopped is not the desired one, press again.
  - \* If the tuning search does not stop at the desired station (because the signals of the station are weak), change to the MANUAL TUNING method.

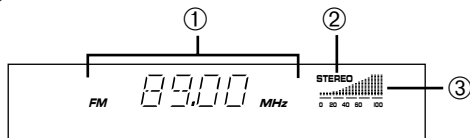
## MANUAL TUNING

- 1** Select the reception band (FM or AM) while watching the display.
- 2**
- 3** Tune to a desired station manually.
  - \* To continue tuning search, press and hold the button.

### Note

If you tune to an FM station manually, it is received in monaural mode automatically to increase the signal quality.

## Display information

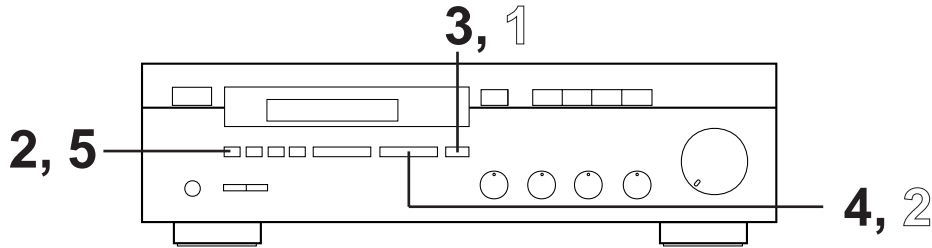


- ① Displays the band and frequency of the received station.
- ② Illuminates when an FM stereo broadcast is received in stereo.
- ③ Indicates the signal level of the received station.


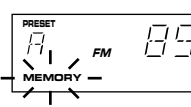
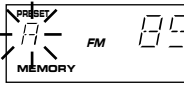
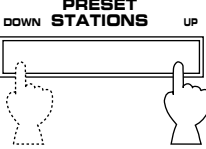


# PRESET TUNING

## MANUAL PRESET TUNING

This unit can store station frequencies selected by tuning operation. With this function, you can recall any desired station by only selecting the preset station number where it is stored. Up to 40 stations (8 stations x 5 pages) can be stored.

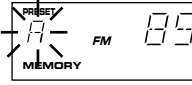
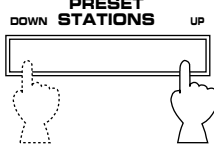


### To store stations

- 1** Tune to a desired station.  
(Refer to the previous page for tuning procedures.)
- 2**  →   
Flashes on and off for about 5
- 3** Select a desired page (A – E) of preset stations while watching the display.  
**A/B/C/D/E** → 
- 4** Select a preset station number (1–8) while watching the display before “MEMORY” goes off from the display.  

- 5**  →   
Shows the displayed station has been programmed to A1.

\* In the same way, program other stations to A2, A3 ... A8.  
\* You can program more stations on other pages in the same way by selecting other pages in step 3.

### To recall a preset station

- 1** Select the page where the preset station is stored.  
**A/B/C/D/E** → 
- 2**   
Select the preset station number.

#### Notes

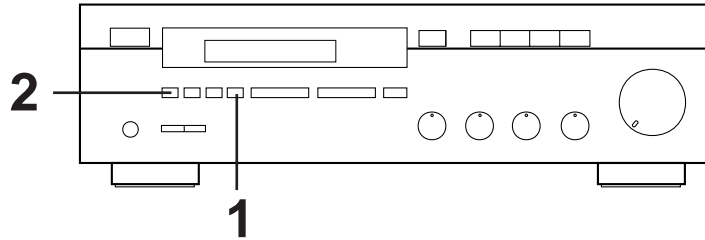
- A new setting can be programmed in place of the former one.
- For presets, the setting of the reception mode (stereo or monaural) is stored along with the station frequency.

#### Memory back-up

The memory back-up circuit prevents the programmed data from being lost even if the **POWER** switch is set off or the power plug is disconnected from the AC outlet or the power is cut due to temporary power failure. If, however, the power is cut for more than one week, the memory may be erased. If so, it can be re-programmed by simply following the PRESET TUNING steps.

# AUTOMATIC PRESET TUNING

You can also make use of an automatic preset tuning function for FM stations only. By this function, this unit performs automatic tuning and stores FM stations with strong signals sequentially. Up to 40 stations are stored automatically in the same way as in the manual preset tuning method on page 13.



## To store stations

**1**

**2**

Press and hold for about 3 seconds.

Flashes. and Flashes.

After 5 seconds, the automatic preset tuning begins from A1. Received stations are programmed to A1, A2 ... A8 sequentially.  
 \* If more than 8 stations are received, they are also programmed to the preset station numbers on other pages (B, C, D and E) in that order.

### When the automatic preset tuning is finished

The display shows the frequency of the last preset station. Check the contents and the number of preset stations by following the procedure of the section "To recall a preset station" on page 13.

### To recall a preset station

Simply follow the procedure of the section "To recall a preset station" on page 13.

### Notes

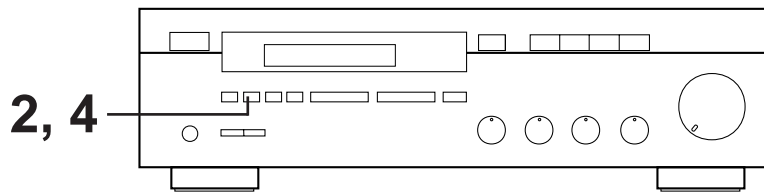
- You can replace a preset station by another FM or AM station manually by simply following the procedure of the section "To store stations" on page 13.
- If the number of received stations is not enough to be stored up to E8, the search is finished automatically when it reaches the highest frequency after searching through all frequencies.
- With this function, only FM stations with sufficient signal strength are stored automatically. If the station you want to program is weak in signal strength, tune to it in monaural manually and program it by following the procedure of the section "To store stations" on page 13.

### If you want to store the first station received by the automatic preset tuning to a desired preset station number.

If, for example, you want to store the received first station to C5, select "C5" by using the **A/B/C/D/E** button and the **PRESET STATIONS** button soon after the display begins flashing on/off in step 2. After a few seconds, the automatic preset tuning begins. The received first station is stored to C5, and next stations to C6, C7 ... sequentially.  
 If stations are stored up to E8, the automatic preset tuning is finished automatically.

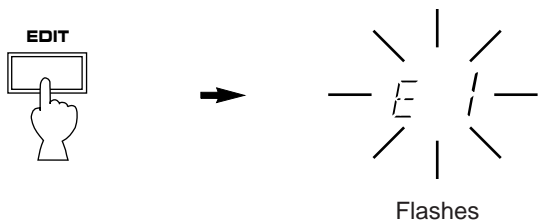
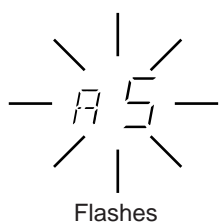
# EXCHANGING PRESET STATIONS

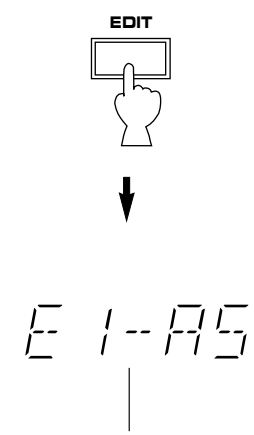
You can exchange the places of two preset stations each other by easy operations.



## Example)

If you want to shift the preset station on E1 to A5, and vice versa.

<b>1</b>	Recall the preset station on E1 (by following the method of "To recall a preset station" on page 13).
<b>2</b>	
<b>3</b>	Next, recall the preset station on A5 by following the same method with step 1. 

<b>4</b>	
----------	--

# REMOTE CONTROL TRANSMITTER

The remote control transmitter provided with this unit is designed to control all the most commonly used functions of the unit. If the CD player, turntable and tape deck connected to this unit are YAMAHA components, then this remote control transmitter will also control various functions of each component.

## KEY FUNCTIONS

### For Control of This Unit

Turns the power on/off.

Turns the power to the receiver is automatically turned off one hour after this key is pressed (so that "SLEEP" illuminates on the display).

Selects preset station number  
 + : Selects higher preset station number.  
 - : Selects lower preset station number.  
 A/B/C/D/E: Selects the page (A – E) of preset stations.

Selects input source.

Turns the volume level up/down.

The diagram shows a remote control transmitter with the following buttons: POWER, SLEEP, PLAY/CUT, PHONO, SKIP, PLAY, CD, SEARCH, PAUSE/STOP, DISC SKIP, PRESET, A/B/C/D/E, TUNER, DIR A, DECK A/B, DIR B, TAPE 1, TAPE 2, REC/PAUSE, STOP, REC MUTE, AUX, and VOLUME (+/-).

### For Other Component Control

Identify the remote control transmitter keys with your component's keys. If these keys are identical, their function will be the same. On each key function, refer to the corresponding instruction on your component's manual.

Starts/stops record play on turntable.

Controls compact disc player.  
 \* **DISC SKIP** is applicable only to compact disc changer.

Controls tape deck.  
 \* **DIR A, B** and **DECK A/B** are applicable only to double cassette tape deck.  
 \* For a single cassette deck with automatic reverse function, pressing **DIR A** will reverse the direction of tape running.

The diagram shows the same remote control transmitter as above, with callouts pointing to the POWER, SLEEP, PLAY/CUT, PHONO, SKIP, PLAY, CD, SEARCH, PAUSE/STOP, DISC SKIP, PRESET, A/B/C/D/E, TUNER, DIR A, DECK A/B, DIR B, TAPE 1, TAPE 2, REC/PAUSE, STOP, REC MUTE, AUX, and VOLUME (+/-) buttons.

#### Illustrations : **RX-485**

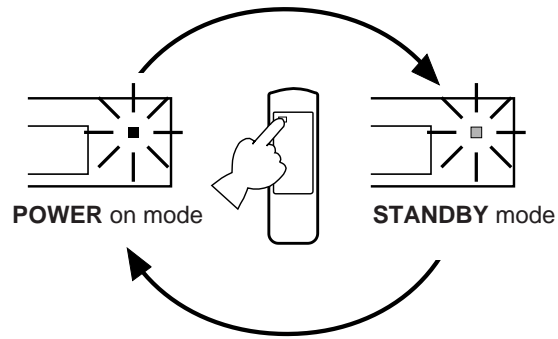
\* **PLAY/CUT** is equipped only on RX-485.

\* **TAPE 1** and **TAPE 2** are equipped only on RX-485. On RX-385, they are replaced by **TAPE** only.



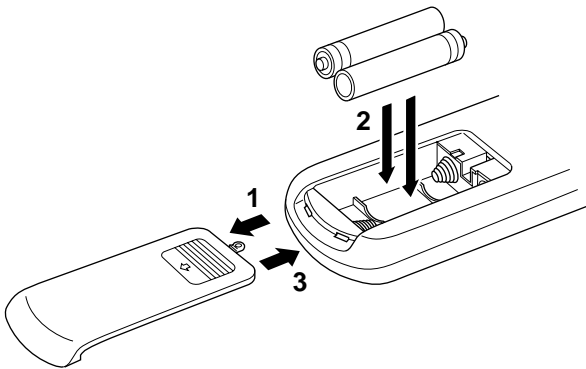
### STANDBY mode (Europe model only)

While the power is on, pressing the **POWER** key on the remote control transmitter switches the unit to the **STANDBY** mode. (In this mode, the standby indicator on the front panel is half illuminated.)



## NOTES ABOUT THE REMOTE CONTROL TRANSMITTER

### Battery installation



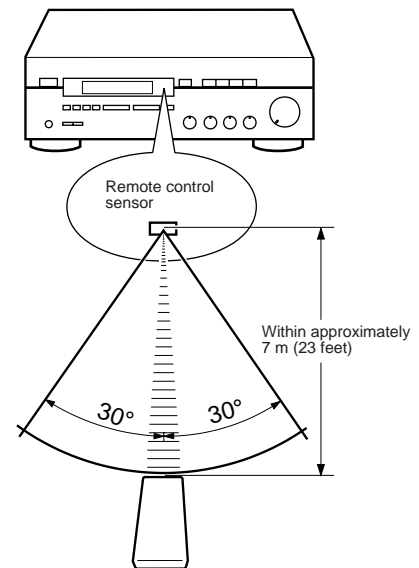
### Battery replacement

If you find that the remote control transmitter must be used closer to the main unit, the batteries are weak. Replace both batteries with new ones.

#### Notes

- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

### Remote control transmitter operation range



#### Notes

- There should be no large obstacles between the remote control transmitter and the main unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type of fluorescent lamp etc.), it might cause the remote control transmitter not to work correctly. In this case, reposition the main unit to avoid direct lighting.

# TROUBLESHOOTING

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help.

	SYMPTOM	CAUSE	REMEDY
Amplifier	The unit fails to turn on when the POWER switch is pressed.	Power cord is not plugged in or is not completely inserted.	Firmly plug in the power cord.
	No sound.	Incorrect output cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
		Appropriate input selector button is not pressed.	Press the appropriate input selector button corresponding to the input source.
	The sound suddenly goes off.	The protection circuit has activated because of short circuit etc.	Turning the unit off and then on will reset the protection circuit.
	Only one side speaker outputs the sound.	Incorrect setting of the BALANCE control	Adjust it to the appropriate position.
		Incorrect cord connection.	Connect the cord properly. If the problem persists, the cables may be defective.
	Sound "hums".	Incorrect cord connections.	Firmly connect the audio plugs. If the problem persists, the cord may be defective.
		No connection from the turntable to the GND terminal.	Make the GND connection between the turntable and this unit.
The volume level is low while playing a record.	The record is being played on a turntable with an MC cartridge.	The player should be connected to the receiver through the MC head amplifier.	
The volume level cannot be increased, or sound is distorted.	The power to the component connected to the REC OUT terminals of this unit is off.	Turn the power to the component on.	
FM	FM stereo reception is noisy.	Because of the characteristics of FM stereo broadcasts, this is limited to cases where the transmitter is too far or the antenna input is poor.	Check the antenna connections. Try using a multiple element FM antenna.
	There is distortion and clear reception cannot be obtained even with a good FM antenna.	There is multipath interference.	Adjust antenna placement to eliminate multipath interference.
	A desired station cannot be tuned in with Auto tuning.	The station is too weak.	Use Manual tuning mode. Use high quality directional FM antenna.
AM	A desired station cannot be tuned in with Auto tuning.	Weak signal or loose antenna connections.	Use Manual tuning mode.
			Tighten the AM loop antenna connections and rotate it for best reception.
	There are continuous crackling and hissing noises.	Noises will result from lightning, fluorescent lamps, motors, thermostats and other electrical equipment.	Use an outdoor antenna and a ground wire. This will help somewhat but it is difficult to eliminate all noises.
Remote control transmitter	There are buzzing and whining noises (especially in the evening).	A television set is being used nearby.	Relocate this unit away from the TV.
	The remote control transmitter does not work.	Direct sunlight or lighting (of an inverter type of fluorescent lamp etc.) is striking the remote control sensor of the main unit.	Change position of the main unit.
Others	The sound is degraded when monitoring is performed by using the headphones connected to the compact disc player or cassette deck which are connected with this unit.	The batteries of this remote control transmitter are too weak.	Replace the batteries with new ones.
		The power to this unit is off.	Turn the power to this unit on.

# SPECIFICATIONS

## AUDIO SECTION

Minimum RMS Output Power per Channel  
8 ohms, 20 Hz to 20 kHz, 0.04% THD  
<RX-485> .....65W+65W  
<RX-385>  
[U.S.A. and Canada models].....45W+45W  
[Australia, U.K., Europe and  
General models].....40W+40W  
6 ohms, 20 Hz to 20 kHz, 0.06% THD  
<RX-485> .....70W+70W  
<RX-385>  
[U.S.A. and Canada models].....48W+48W  
Dynamic Power per Channel  
(by IHF Dynamic Headroom measuring  
method)  
<RX-485>  
8/6/4/2 ohms .....95/115/135/150W  
<RX-385>  
[U.S.A., Canada and General models]  
8/6/4/2 ohms .....69/78/90/98W  
[Australia, Europe and U.K. models]  
8/6/4/2 ohms .....68/75/85/95W  
DIN Standard Output Power per Channel  
4 ohms, 1 kHz, 0.7% THD  
[Europe model only]  
<RX-485> .....85W  
<RX-385> .....55W  
IEC Power  
<RX-485>  
8 ohms, 1 kHz, 0.04% THD  
[Europe model only].....75W  
<RX-385>  
8 ohms, 1 kHz, 0.04% THD  
[Europe model only].....50W  
Damping Factor  
8 ohms, 20 Hz to 20 kHz .....80  
Input Sensitivity/Impedance  
PHONO MM .....2.5 mV/47 k-ohms  
CD/TAPE/AUX .....150 mV/47 k-ohms  
Maximum Input Signal (1 kHz, 0.01% THD)  
PHONO MM .....80 mV  
Headphone Jack Rated Output/Impedance  
8 ohms, 20 Hz to 20 kHz, 0.04% THD  
Output Level  
<RX-485> .....0.46V  
<RX-385> .....0.45V  
Impedance  
<RX-485> .....390 ohms  
<RX-385> .....330 ohms  
Frequency Response (20 Hz to 20 kHz)  
CD/TAPE/AUX .....0±0.5 dB  
RIAA Equalization Deviation  
PHONO MM .....0±0.5 dB  
Total Harmonic Distortion (20 Hz to 20 kHz)  
PHONO MM to REC OUT (1V) .....0.02%  
CD/TAPE/AUX to SP OUT  
<RX-485>  
(32.5W/8 ohms) .....0.02%  
<RX-385>  
(22.5W/8 ohms) .....0.02%  
Signal-to-Noise Ratio (IHF-A Network)  
PHONO MM (5 mV Input Shorted).....82 dB  
CD/TAPE/AUX (Input Shorted) .....105 dB  
Residual Noise (IHF-A Network).....100 µV

Channel Separation (Vol. -30 dB)  
PHONO MM (Input Shorted 1 kHz) .....60 dB  
CD/TAPE/AUX  
(Input 5.1 k-ohms Terminated 1 kHz)....60 dB  
Tone Control Characteristics  
BASS: Boost/cut .....±10 dB (50 Hz)  
(Turnover frequency)  
.....(350 Hz)  
TREBLE: Boost/cut .....±10 dB (20 kHz)  
(Turnover frequency)  
.....(3.5 kHz)  
Continuous Loudness Control  
.....- 30 dB (1 kHz)  
(Level related equalization)

## FM SECTION

Tuning Range  
[U.S.A., Canada and General models]  
.....87.5 to 107.9 MHz  
[Australia, Europe, U.K. and General  
models] .....87.5 to 108.0 MHz  
50 dB Quieting Sensitivity (IHF, 75 ohms)  
[Except Europe model]  
Mono .....1.55 µV (15.1 dBf)  
Stereo .....21 µV (37.7 dBf)  
Usable Sensitivity (75 ohms)  
(30 dB S/N Quieting, 1 kHz, 100% mod.)  
[Except Europe model]  
.....0.8 µV (9.3 dBf)  
DIN, Mono (S/N 26 dB) [Europe model]  
.....0.9 µV  
DIN, Stereo (S/N 46 dB) [Europe model]  
.....24 µV  
Image Response Ratio  
[Except Europe model] .....45 dB  
[Europe model] .....80 dB  
IF Response Ratio .....80 dB  
Spurious Response Ratio .....70 dB  
AM Suppression Ratio .....55 dB  
Capture Ratio .....1.5 dB  
Alternate Channel Selectivity  
[Except Europe model] .....85 dB  
Selectivity (two signals, 40 kHz Dev.)  
[Europe model] .....70 dB  
Signal-to-Noise Ratio  
(IHF) Mono/Stereo  
[Except Europe model] .....80 dB/75 dB  
(DIN-Weighted, 40 kHz Dev.) Mono/Stereo  
[Europe model] .....74 dB/69 dB  
Harmonic Distortion  
Mono/Stereo (1 kHz)  
[Except Europe model] .....0.1/0.2%  
Mono/Stereo (40 kHz Dev.)  
[Europe model] .....0.1/0.2%  
Stereo Separation (1 kHz) .....50 dB  
Frequency Response  
30 Hz to 13 kHz .....0 ±0.5 dB  
20 Hz to 15 kHz .....0 ±1.5 dB

## AM SECTION

Tuning Range  
[U.S.A., Canada and General models]  
.....530 to 1,710 kHz  
[Australia, U.K., Europe and General  
models] .....531 to 1,611 kHz  
Usable Sensitivity .....100 µV/m  
Selectivity .....32 dB  
Signal-to-Noise Ratio .....50 dB  
Image Response Ratio .....40 dB  
Spurious Response Ratio .....50 dB  
Harmonic Distortion .....0.3%

## AUDIO SECTION

Output Level/Impedance  
FM (100% mod., 1 kHz)  
[Except Europe model]  
.....500 mV/2.2 k-ohms  
[Europe model (40 kHz Dev.)]  
.....400 mV/2.2 k-ohms  
AM (30% mod., 400 Hz)  
.....150 mV/2.2 k-ohms

## GENERAL

Power Supply  
[U.S.A. and Canada models]  
.....AC 120V, 60 Hz  
[Australia and U.K. models]  
.....AC 240V, 50 Hz  
[Europe model] .....AC 230V, 50 Hz  
[General model]  
.....AC 110/120/220/240V, 50/60 Hz  
Power Consumption  
<RX-485>  
[U.S.A. model] .....155W  
[Canada model] .....250 VA, 205W  
[Europe, Australia and General models]  
.....135W  
<RX-385>  
[Canada model] .....170W  
[U.S.A., Australia, Europe, U.K. and  
General models] .....120W  
AC Outlets  
2 SWITCHED OUTLETS  
[U.S.A., Canada, Europe and  
General models] .....100W max. total  
1 SWITCHED OUTLET  
[Australia and U.K. models]  
.....100W max. total  
Dimensions (W x H x D)  
.....435 x 126 x 298 mm  
(17-1/8" x 4-15/16" x 11-3/4")  
Weight  
<RX-485> .....7.0 kg (15 lbs. 6 oz.)  
<RX-385> .....6.1 kg (13 lbs. 7 oz.)  
Accessories .....AM loop antenna  
Indoor FM antenna  
Remote control transmitter  
Batteries

Specifications are subject to change without notice.

# YAMAHA

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YAMAHA ELECTRONICS CORPORATION, USA 6660 ORANGETHORPE AVE., BUENA PARK, CALIF. 90620, U.S.A.  
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YAMAHA ELECTRONIK EUROPA G.m.b.H. SIEMENSSTR. 22-34, 25462 RELLINGEN BEI HAMBURG, F.R. OF GERMANY  
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YAMAHA SCANDINAVIA A.B. J A WETTERGRENS GATA 1, BOX 30053, 400 43 VÄSTRA FRÖLUNDA, SWEDEN  
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