SONY FM STEREO/FM-AM RECEIVER

STR-AV1000/900

3-769-912-24 (1)

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

STR-AV1000



OWNER'S RECORD

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. ____ Serial No.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol 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:



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

– Note to CATV system installer: –

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

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the equipment with respect to the receiver Move the equipment away from the receiver Plug the equipment into a different outlet so that

equipment and receiver are on different branch circuits. If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

For the customers in Canada

- CAUTION: -

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

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Outline of the STR-AV1000 and STR-AV900

The STR-AV1000/900 is a combined receiver and audio/video control center. You can enjoy various audio/video program sources with this unit.

TV/Video Programs

- You can enjoy TV or CATV programs with FM simulcast.
- Sounds from various audio program sources can be added on video tapes during editing.

Tuner

- Precise tuning is ensured by a quartz lock digital synthesizer.
- All receivable stations can be preset automatically.

Electronic graphic equalizer and Music Index system

- You can enjoy audio program sources with an appropriate equalization curve.
- Memorization of equalization curve is possible as well as curve adjustment.
- Combined use of the graphic equalizer and the Music Index system allows you to very quickly tune in a preset broadcast station and immediately enjoy the sound with the memorized equalization curve.

Remote control

- The **supplied remote commander** allows you to remotely control both the unit and the equipment connected to the unit.
- The commander supplied with the STR-AV1000 can **learn various functions of other remote commanders** of the infrared type.

Display

- The frequency of each tuned-in broadcast station is displayed.
- The current selection/operation is displayed to clearly indicate what is taking place.

General

• The surround sound system enhances live atmosphere of the sound.

Precautions

On safety

- Operate the unit only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

On operation

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Before making program source connections, be sure to unplug the unit.

On cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

For the customers in U.S.A.

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

Installation

Notes on Installation



- near heat sources such as radiators or air ducts.
- in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Do not place anything on top of the cabinet. The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.

Loading the Batteries into the Remote Commander





RM-U80 Remote Commander (supplied with STR-AV900)



Do not throw away the carton and packing material.

It will be an ideal container when transporting the unit for repair work, etc.

To avoid damage caused by battery leakage and corrosion When the commander will not be used for a long time, remove the batteries.

Battery life

About a half year of normal operation can be expected when using the Sony SUM-3(NS) batteries.

When the batteries are run down, the remote commander will not operate the unit. In this case, replace the batteries with new ones.

Connections



- Do not connect the power cord to an AC outlet nor press the SYSTEM POWER switch before accomplishing all other connections.
- The cable connectors should be fully inserted into the jacks. Loose connection may cause hum and noise.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for left channel (L).

Overall Connection Diagram

The numbers placed in a circle • correspond to those of the individual connecting diagrams given on the following pages.



1 Connecting the FM Antenna

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2 Connecting the AM Antenna







5 Connecting Tape Decks











9 Connecting VCRs

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Connecting a VCR, Monitor TV, etc. Equipped with the Connectors for Component Video Signal of the Luminance and the Chrominance

This connection is possible only with the STR-AV1000.



• Connecting a Portable VCR, etc.

This connection is possible only with the STR-AV1000.



13 Connecting the Remote Control System

To control the equipment connected to the receiver with the remote commander, connect the CONTROL S OUT connector and the CONTROL S IN connector of each equipment as illustrated below.



1 Connecting the AC Power



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Parts Identification

Front Panel

Display window	
MEMORY (EQ/INDEX) buttons	
PRESET EQ LINK button	
Graphic equalizer	
SYSTEM POWER switch	
Remote control sensor	
SPEAKERS selectors	
· ·	
HEADPHONES jack	
VIDEO 3 connectors	
EDIT buttons	
TAPE 2 MONITOR button	



EQ/MUSIC INDEX CATEGORY selectors **BAND** selectors - FM TUNING LEVEL/MODE buttons **TUNING SEARCH/DIRECT buttons** Numeric buttons **ENTER button STATION SCAN buttons** STR-AV1000 - VOLUME control knob **MUTING button** and indicator · 📭 🌘 ٦ - BALANCE control SUBSONIC filter button SURROUND button and indicator - FUNCTION selectors STR-AV900 - FUNCTION selectors

Programmable System Commander RM-P101 (supplied with the STR-AV1000)

The Programmable System Commander RM-P101 supplied with the STR-AV1000 can learn various functions of other remote commanders emitting infrared rays.

When it is set to SONY STD (Sony Standard) by the mode selector, its buttons can be used to perform the functions below.



Notes

- When the CONTROL S OUT connector is connected to the CONTROL S IN connector of each equipment, you can control the connected equipment using this remote commander.
- SHUFFLE and PGM modes of some CD players cannot be cleared by this remote commander. In such case, clear the modes using the CD player itself or with the remote commander supplied with the CD player.
- When the system is in the LINK ON state, those index categories under which no broadcasting stations have been preset cannot be selected.

Note on the \bullet (recording) button under 12 VTR operation buttons

If your VCR is of such type as pressing \bullet puts it in REC PAUSE mode, first press \bullet on this commander and then II.

1 POWER ON/OFF button

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Turns on/off the receiver.

2 POWER ON/OFF buttons

TV: Turns on/off the TV. VTR: Turns on/off the VCR 1, 2 or 3.

3 TV operation buttons

TV CH: Channel select buttons

TV VOL: Volume control buttons

4 Spare buttons

Functions of other remote commanders can be learned on these buttons. (See "Using the Learning Function," page 20.)

5 PHONO buttons

START: Starts record play. STOP: Stops record play.

6 TUNER PRESET buttons

+: Selects a higher preset channel number.

-: Selects a lower preset channel number.

7 VOLUME control buttons

8 MUTING button

9 SURROUND ON/OFF button

10 LEARNED and READY indicators

- LEARNED: Lights up when learning of a function of other commander is complete.
- READY: Lights up when the commander is ready to learn a function of other commander.

11 Mode selector

LEARN: To perform learning function.

SONY STD.: To operate the commander on Sony Standard.

USER STD.: To use the learned functions.

12 VTR operation buttons

- Rewind
- ►: Play
- ► : Fast forward

TV/VTR: Select the output signal from the VCR, either a TV signal or VCR programs.

- VTR CH: VCR channel select buttons
- ■: Stop
- II: Pause
- ●: Recording (While you press ●, press ►.)

Notice: If your VCR has a command mode selector and it is set to VTR 1, these buttons will operate only when the mode selector of this commander is set to SONY STD. If the VCR's selector is set to VCR 2, the mode selector must be set to USER STD.

13 TAPE deck operation buttons

- ✓ Reverse fast winding
- Reverse play
- ►: Forward play
- ► Forward fast winding
- ■: Stop
- II: Pause
- ●: Recording (While you press ●, press ◀ or ►.)
- **O**: Record muting

Note: If your tape deck is a double-deck type, refer to its instruction manual concerning the deck which can be controlled with this commander.

14 CD player operation buttons

- ►: Starts play.
- : Stops play.

I AMS (Automatic Music Sensor)
 DISC SELECT: Effective only when the connected CD player is equipped with a disc changer.
 REPEAT: Repeat play
 SHUFFLE: Shuffle play
 PGM: Program play

15 Function selectors

16 GRAPHIC EQUALIZER control buttons

- FREQ: Frequency select buttons
 - +: Selects a higher frequency.
 - -: Selects a lower frequency.
- LEVEL: Level select buttons
 - +: For higher level
 - –: For lower level

17 Music Index select buttons

- +: Each time you press this button, a different Music Index is selected in the following order:
 - 「►OPTION 2 ┺ ROCK ——►JAZZ ►POPS —

└─ OPTION 1 ← COUNTRY ← CLASSIC ← TALK ←

-: A different Music Index is selected in the order reverse to "+".

Remote Commander RM-U80 (supplied with STR-AV900)



Notes

- When the CONTROL S OUT connector is connected to the GONTROL S IN connector of each equipment, you can control the connected equipment using this remote commander.
- SHUFFLE and PGM modes of some CD players cannot be cleared by this remote commander. In such case, clear the modes using the CD player itself or with the remote commander supplied with the CD player.
- When the system is in the LINK ON state, those index categories under which no broadcasting stations have been preset cannot be selected.

Note on the ullet (recording) button under $\boxed{7}$ VTR operation buttons

If your VCR is of such type as pressing \bullet puts it in REC PAUSE mode, first press \bullet on this commander and then II.

1 POWER ON/OFF buttons

TV: Turns on/off the TV. VTR: Turns on/off the VCR 1 or 2. AUDIO: Turns on/off the receiver.

2 SYSTEM POWER OFF button

Turns off the receiver, TV, VCR 1 and 2.

3 TAPE and VTR selector

TAPE A: Selects the tape in a single-deck unit or the tape in the "A" deck of a double-deck unit.

- TABE B: Selects the tape in the "B" deck of a double-deck unit.
- VTR1/2: If your VCR has a command mode selector, set this switch to the same position as that of the command mode selector.

If not, set this switch to VTR1.

Notice: The TAPE A/B selector is usable for TC-WR950. If you use another double deck with "control-S", you can operate one side of the deck.

4 PHONO buttons

START: Starts record play. STOP: Stops record play.

5 CD player operation buttons

- ►: Starts play.
- : Stops play.
- Image: AMS (Automatic Music Sensor)
 D. SELECT: Effective only when the connected CD player is equipped with a disc changer.
 REPEAT: Repeat play
 SHUFFLE: Shuffle play
 PGM: Program play

6 TAPE deck operation buttons

- **4**: Reverse fast winding
- Reverse play
- ► : Forward play
- ► : Forward fast winding
- ∎: Stop
- II: Pause
- ●: Recording (While you press ●, press ◀ or ►.)
- O: Record muting

7 VTR operation buttons

- **A**: Rewind
- ►: Play
- Image: Fast forward
- TV/VTR: Select the output signal from the VCR, either a TV signal or VCR programs.

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- ■: Stop
- E: Pause
- ●: Recording (While you press ●, press ►.)

8 SURROUND ON/OFF button

9 VOLUME control buttons

10 MUTING button

11 TUNER PRESET buttons

- +: Selects a higher preset channel number.
- -: Selects a lower preset channel number.

12 FUNCTION selectors

13 Music Index select buttons

- +: Each time you press this button, a different Music Index is selected in the following order:
- ► OPTION 2 ► ROCK ----> JAZZ ----> POPS ---
- OPTION 1- COUNTRY- CLASSIC TALK -
- -: A different Music Index is selected in the order reverse to "+".

14 TV operation buttons

- TV CH: Channel select buttons
- TV VOL: Volume control buttons

15 VTR CH: VCR channel select buttons

Using the Remote Commander

- When you manipulate a switch or button on the commander, be sure to point the head of the commander toward the remote control sensor on the front of the receiver.
- If there is an obstacle between the receiver and the head of the commander, the receiver may not be controlled remotely.

Using the Learning Function of the Programmable System Commander RM-P101 (for STR-AV1000)



- **1** Set the mode selector to LEARN. The READY indicator lights up.
- 2 Turn this commander towards another commander and press any button in the programmable area on which you want a function of the other commander to be memorized.

If the selected button is inoperative, the READY indicator flickers.

3 While keeping the button pressed, press the desired function button on the other commander.

The function is memorized by this unit. When the memorization is complete, the READY indicator goes out and the LEARNED indicator lights up.

4 Release the button.

The LEARNED indicator goes out and the READY indicator lights up to indicate that the next learning is ready to start.

When learning is finished

- Set the mode selector to USER STD. to use learned functions.
- Set the mode selector to SONY STD. to use Sony standard functions.

The memorization will be remained

For two or three days without installing the batteries.

Caution

Be sure to check if the functions have been stored, because a few of the functions of other manufacturer's commanders are not storable on this commander.

If the RM-P101 cannot control other Sony audio/video equipments

Make it learn functions of the remote commander for each equipment following the above steps. After learning operation, be sure to use it with the mode selector set to USER STD. in this case, too.

If both LEARNED and READY indicators light up

The batteries are becoming exhausted. Replace all four batteries with new ones.

Making the commander learn the recording function

Be sure to press the \blacktriangleleft or \triangleright button while keeping the \bigcirc button pressed. The learning may not be performed if you press \bigcirc only.

To activate recording using the learned function, press ◀ or ▶ while keeping ● pressed.

When the mode selector is set to USER STD.

- Pressing a button on which no function has been learned will always activate the Sony standard function assigned to that button.
- No function will be activated if the pressed button has tearned unrelated signals such as noise from fluorescent light.
- The TV/VTR buttons control VCR 2 such as Sony 8 mm VCR.

Avoiding memorization of noise or useless signals

When using the learning function, be sure to handle both commanders away from a noise source and put the commanders themselves close to each other.

If the READY indicator doesn't light up at step 1 or 4

The learning function will not work well. This may occur when you handle the commanders close to a noise source such as a fluorescent light or an equipment emitting infrared rays.

Remove both commanders away from the noise source.

If the LEARNED indicator flickers at step 3

The RM-P101's memory has been occupied by noise or useless signals to it's all capacity. If this situation occurs, you cannot use the learning function any more before once erasing all contents of the memory.

Erasing the contents of the memory

- 1. Set the mode selector to LEARN.
- 2. While keeping the **◄** of the VCR operation buttons pressed, press the MUTING button.

Audio Adjustment

You can enjoy superb sounds using the audio adjustment functions as shown below.





Balance Adjustment

Changing the relative output strength of the right and left speakers Adjust BALANCE to correct stereo imaging, when the speaker position is not symmetrical.



Sound Quality Adjustment

Selecting a standard equalization curve for each music You can readily enjoy a music with a standard equalization curve factory-preset for the category of that music. If you are to listen to a rock music for example, press the EQ/MUSIC INDEX CATEGORY button marked "ROCK."



Note

This operation cannot be performed while the DEFEAT or the LINK indicator is lit. Press the DEFEAT or the PRESET EQ LINK button to make the indicator go out.

Enjoying the surround sound

Press SURROUND when listening to a stereo source. Press again to turn off the effect.



Creating and/or Memorizing a New Equalization Curve

See "Using the Graphic Equalizer," page 28.

Reducing unwanted subsonic noise components created by warped records, etc.

Press SUBSONIC. Press again to disengage the subsonic filter.

Receiving Radio Broadcast Programs

Direct Tuning



Tuning intervals for direct tuning FM: 50 kHz interval AM: 10 kHz interval (changeable to the 9 kHz interval)

Changing the AM tuning interval

The AM tuning interval is preset to 10 kHz. To use the receiver where the frequency allocation system is based on the 9 kHz interval, make the following adjustments:

Turn on the power and tune in any AM station.

Press SYSTEM POWER to turn off the receiver.

Press again SYSTEM POWER to turn on the receiver while pressing STATION SCAN +.

Resetting the AM tuning interval

Follow the procedure for changing the AM tuning interval.

Caution

When the interval is changed, all preset AM stations which you have memorized will be erased. After changing the interval, be sure to newly preset stations. (See "Presetting Broadcast Stations," page 24.)

When the entered number is not in the receivable frequency range

The entered digits (up to 5 digits for FM or up to 4 digits for AM) blink in the frequency display area, and reception does not take place.

If this condition occurs, press TUNING DIRECT again, and enter the correct frequency (the frequency range of the receiver is 87.50 to 107.90 MHz for FM. and 530 to 1610 kHz for AM).

Correcting the entered frequency

Repeat Steps 3 to 5 of Direct Tuning

For entering AM frequencies, you need not enter the last $^{\prime\prime}0^{\prime\prime}.$

However, if you have changed the AM tuning interval to $9 \, \text{kHz}$, enter all the digits.

If you enter a frequency not covered by the tuning interval

The entered value is automatically rounded up or down to the closest value covered by the tuning interval.

When an FM stereo program is noisy

When the unit receives an FM stereo program, the STEREO indicator goes on in the display window. If the stereo program is noisy, press FM MODE to change the mode over to MONO. This eliminates the stereo effect, but the noise will be greatly reduced. To return to the stereo mode, press FM MODE again.

Presetting Broadcast Stations – Auto-preset



Selecting the signal level of the station to be preset

You can select "high" or "low" as the FM tuning level by FM TUNING LEVEL. Each time you press this button, the characters HIGH or LOW are displayed in the display window.

- **HIGH:** The frequencies of strong signal stations only will be memorized.
- **LOW:** The frequencies of all receivable stations will be memorized.

How many stations have been preset?

The total number of preset stations are displayed in the PRESET CH area of the display window. However, if more than 99 stations have been preset, "--" is displayed instead of the number.

Music index automatically assigned to the stations preset by search operation

All stations preset by search operation are memorized under category OPTION-2.

For the procedure of assigning the desired index to any preset station, refer to "Categorizing Preset Stations by Music Index," page 26.

Tuning in Preset Stations – Station Scan Tuning



Notes on Method A

- When the receiver is in the LINK OFF state, all preset stations can be scanned.
- When the receiver is in the LINK ON state, only those preset stations which belong to the music index category that is displayed at present.
- For LINK ON/OFF selection, use the PRESET EQ LINK button. (For details, see "Using the Graphic Equalizer," page 28.)

2

Categorizing Preset Stations by Music Index

You can divide preset stations under up to eight Music Index categories (ROCK, JAZZ, ...) using the Music Index function. When the unit is in the LINK ON state, only the stations belonging to the selected category can be scanned by STATION SCAN. (Refer to "Method A of Tuning Preset Stations," page 25 and "Tuning in a Categorized Station," page 27.) Also the sound is equalized according to the equalization curve assigned to the selected category.

SYSTEM POWER → ON	Select the function TUNER.
12,6 4 3	 2 Press MEMORY INDEX. The LINK and the MEMORY indicators will appear. 3 Tune in the desired preset station with STATION SCAN + or 4 Assign a Music Index to the tuned in station by pressing the corresponding EQ/MUSIC INDEX CATEGORY button. The box-shaped indicator for the selected Music Index will blink.
	5 Repeat Steps 3 and 4 for all other stations you want to assign a Music Index to.
	6 Press again MEMORY INDEX. The MEMORY indicator will disappear and the box-shaped indicator will stop blinking.

All preset stations will remain under category OPTION-2 Until you perform the above operation.

Each station can be stored under only one category If you store an already categorized station under any other category, only the last selected category will be valid.

Channel numbers to be assigned to categorized stations Serial numbers (1, 2, ...) will be assigned to the stations by category.

- The Music Index function cannot be used
- if no stations have been preset (see "Presetting Broadcast Stations," page 24.), or
- . when the unit is in the direct tuning mode.

Tuning in a Categorized Station



- **1** Select the function TUNER.
- 2 If the LINK and the INDEX indicators are not displayed in the display window, press PRESET EQ LINK to put the unit in the LINK ON state. The LINK and the INDEX indicators will light up, and the Music Index of the present station will be indicated by the box-shaped indicator.
- **3** Press the EQ/MUSIC INDEX CATEGORY button for the category you want to listen to.
- **4** Select the desired station with the STATION SCAN +/- buttons or by entering its channel number with numeric and ENTER buttons.

You cannot put the unit in the LINK ON state when the unit is in the direct tuning mode. To cancel the mode, change the receiving band or press a

To listen to the station without any euqalization Press DEFEAT.

STATION SCAN button.

To use another equalization curve, you have to set the receiver to LINK OFF, by pressing the PRESET EQ LINK.

When the unit is in the LINK ON state You cannot tune in any station that has not been memorized under the Music Index Category selected at Step 3. **Using the Graphic Equalizer**

You can enjoy a music with a different equalization curve than the ones preset at the factory.



Adjustable frequency bands and the effect of level adjustment

- **63 Hz:** Lowering the level will cut the ventilation noise of a music hall, hum of electronic instruments, boomy bass, etc.
 - Raising the level will reinforce the heavy bass part of a pipe organ or add depth to the bass sound.
- 150 Hz: Boosting or cutting the normal bass.
- **400 Hz:** Increasing or decreasing the power, spaciousness and warmth of the sound.
- 1 kHz: Providing more presence for vocals, and moving the sound forward or into the background.

- 2.4 kHz: Lowering the level will reduce stridency, and raising will make the base sound brighter.
- 6 kHz: Increasing or decreasing the brightness of the sound; for example, raising the level will make the violin sound silky smooth.
- **14 kHz:** Changing the general atmosphere rather than the sound itself.

Raising the level will highlight the delicate quality of instrumental sound, and lowering will reduce high-frequency noise such as the resonant peak of a cartridge, tape hiss, etc.

Memorizing a New Equalization Curve

You can store a created equalization curve into memory under any Music Index Category you select. However, note that this operation will erase the factory-preset equalization curve or the last memorized one under the selected Music Index Category.



Before beginning the operation below, make sure that neither DEFEAT indicator nor LINK indicator is lit. If lit, press the DEFEAT and/or PRESET EQ LINK button.

- Create an equalization curve you want to store.
- **2 Press MEMORY EQ.** The MEMORY indicator will light up for a few seconds.
- **3** Press, while the MEMORY indicator is displayed, the EQ/MUSIC INDEX CATEGORY button for the category under which you want to store the equalization curve.

Listening to a Music with a Memorized Equalization Curve



Note

This operation cannot be performed while DEFEAT or LINK indicator is lit. Press DEFEAT or PRESET EQ LINK to make the indicator go out.

Listening to a Music without Using the Graphic Equalizer Function



To accurately check the highest input (STR-AV1000 only) Press the PEAK HOLD button. The real time analyzer display will hold the highest input of each frequency range for several seconds.

than Radio Broadcasts

	-	Select the program	n source.
	1 3		FUNCTION selector to be pressed
		Phono record	PHONO
1		Compact disc	CD
		DAT programs	DAT
		Taped Programs	TAPE 1, TAPE 2 MONITOR
ST SPEAKERS A or B		Video programs	VIDEO 1, VIDEO 2/CDV, VIDEO 3 (STR-AV1000)
	Turntable system CD player Tape deck DAT VCR CDV player 2	2 Start the selected p3 Adjust the volume.	program.

Receiving FM Simulcast TV Programs Select VIDEO 1, VIDEO 2, or VIDEO 3 Monitor TV SYSTEM POWER → ON (STR-AV1000) according to video inputs connected to an 3 equipment to which the VHF antenna is 2 connected. TV tuner or VCR $\mathbf{2}$ Turn on the TV. 3 Select the desired program on the TV tuner or MONITOR VIDEO 1 the VCR. or VIDEO 2 IN VIDEO OUT 4 Select TUNER and tune in the FM simulcast (🏟) TV program on the Receiver. **5** Adjust the volume. ରି ଲି ଲି \cap 45 Select SPEAKERS A or B

Recording on an Audio Tape or DAT



Tape Dubbing



Note on recording

The settings of the VOLUME, SURROUND, BALANCE, SOBSONIC, and graphic equalizer do not have any effect on recording.

Monitoring the recorded sound

If you have connected a tape deck having separate record and playback heads to the TAPE 2 jacks, you can monitor the recording results. While recording or dubbing, press the TAPE 2 MONITOR button. To listen to the source sound again. press the button again.

Note on tape dubbing

Tape dubbing is possible only in the following directions:

From (playback side)	To (recording side)	FUNCTION selector to be pressed
Tape deck connected to TAPE 1 IN	Tape deck connected to TAPE 2 REC OUT	TAPE 1
	DAT deck connected to DAT REC OUT	
DAT deck connected to DAT IN	Tape deck connected to TAPE 1 or 2 REC OUT	DAT

Video Operations

Recording a TV Program on a Video Tape with the STR-AV1000



Preparation

- Turn on the unit and the equipment to be used.
- If the AUDIO indicator is lit in the VIDEO EDIT display, press the EDIT AUDIO button to make the indicator go out.
- **1** Press the function selector VIDEO 2/CDV or VIDEO 3 according to the video inputs connected to an equipment to which the TV antenna is connected.
- 2 Make 2 ► 1 or 3 ► 1 appear in the VIDEO EDIT display area using the EDIT VIDEO button. 2 ► 1: When you have selected VIDEO 2/CDV at step 1.
 - **3 ► 1:** When you have selected VIDEO 3 at step 1.
- **3** Select the desired TV program on the TV tuner (VCR 2 or 3).
- 4 Set VCR 1 to the recording mode.

Recording a TV Program on a Video Tape with the STR-AV900 SYSTEM POWER - ON Preparation • Turn on the unit and the equipment to be used. • If the AUDIO indicator is lit in the display window, press the EDIT AUDIO button to make the

VIDEO 1

VIDEO OUT/AUDIO OUT

- indicator go out.
- Press the function selector VIDEO 2/CDV.
- 2 Select the desired TV program on the VCR 2.
- **3** Set VCR 1 to the recording mode.

Note

The VOLUME, BALANCE, SURROUND, SUBSONIC and graphic equalizer settings do not have any effect on the recording.

TV tuner/VCR 2

Select SPEAKERS A or B

VIDEO IN/AUDIO IN

VIDEO 2

Video Tape Editing with the STR-AV1000



Preparation

- Turn on the unit and the equipment to be used.
- If the AUDIO indicator is lit in the VIDEO EDIT display, press the EDIT AUDIO button to make the indicator go out.
- Select the palyback-side VCR using the EDIT VIDEO button.
 1: for VCR 2.
 1: for VCR 3.
 1: for VCR 3.

 $2 \ge 1$ or $3 \ge 1$ will be indicated in the VIDEO EDIT display area.

- 2 Select the input video signal source for the monitor TV with the function selectors.
 VIDEO 1: for VCR 1.
 VIDEO 2/CDV: for VCR 2.
 VIDEO 3: for VCR 3.
- Set the playback-side VCR to the playback mode.
- 4 Set VCR 1 to the recording mode. Editing will begin.

Video Tape Editing with the STR-AV900



Preparation

- Turn on the unit and the equipment to be used.
- If the AUDIO indicator is lit in the display window, press the EDIT AUDIO button to make the indicator go out.
- Press VIDEO 2/CDV.
- **2** Set VCR 1 to the recording mode.
- **3** Set VCR 2 to the playback mode.

To switch the playback-side VCR during editing with the $\ensuremath{\mathsf{STR}}\xspace{\mathsf{AV1000}}$

Press EDLT VIDEO. Each time you press the button, the playback-side VCR switches from VCR 2 or 3 to VCR 3 or 2.

To view the other video source(s) on the monitor TV during editing

- Press the appropriate FUNCTION selector:
- VIDEO 1, VIDEO 2/CDV, or VIDEO 3 with the STR-AV1000
- VIDEO 1 or VIDEO 2/CDV with the STR-AV900.

Listening to an audio program during video tape editing

- 1. Press the appropriate FUNCTION selector.
- 2. Start the selected audio program source.

Adding the Desired Sound on a Video Tape during Editing

During video tape editing, you can add the desired sound on the recording-side video tape from various audio program sources.

Audio Dubbing during Video Tape Editing with the STR-AV1000			
SYSTEM POWER → ON Video signals VCR 2 2,3,6 VCR 1 VIDEO 2 VIDEO 1 VIDEO 1 VIDEO IN/ AUDIO IN 5 1	 Select the playback side VCR with the EDIT VIDEO button. 2 ►1 or 3 ►1 will appear in the VIDEO EDIT display area. 2 ►1: for VCR 2 3 ►1: for VCR 3 		
	 2 Insert a recorded video tape into the playback-side VCR and set the VCR to the playback mode. 3 At the point where audio dubbing is to start, press the PAUSE button on the playback-side VCR. 		
VCR 3 2,3,6 Select SPEAKERS A of B	 4 Press EDIT AUDIO. 5 Select the audio program source with the appropriate function selector. 6 Release the PAUSE mode of the playback-side VCR and set VCR 1 to the recording mode. 		
·	Audio dubbing will start.		



ecifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC **DISTORTION:**

With 8-ohm load, both channels driven, from 20-20,000 Hz, rated 120 watts (STR-AV1000) or 100 watts (STR-AV900) per channel minimum RMS power, with no more than 0.008% (STR- AV1000) or 0.03% (STR-AV900) total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

Amplifier section

Dynamic power output STR-AV1000 195 watts + 195 watts (8 ohms, at 1 kHz IHF) 250 watts + 250 watts (4 ohms, at 1 kHz IHF) STR-AV900 140 watts + 140 watts (8 ohms, at 1 kHz IHF)

190 watts '+ 190 watts (4 ohms, at 1 kHz IHF) Harmonic distortion

STR-AV1000: Less than 0.008 % at rated output STR-AV900: Less than 0.03 % at rated output Intermodulation (IM) distortion

STR-AV1000: Less than 0.008% at rated output STR-AV900: Less than 0.03 % at rated output

Frequency response

PHONO:RIAA equalization curve $\pm 0.5 \text{ dB}$ CD, DAT, TAPE 1,2 VIDEO 1, 2/CDV, 3 5 Hz = 80 kHzResidual noise Less than $70\mu V$ (8 ohms, network A) Damping factor 50 (8 ohms, 1 kHz)

Inputs

-	Sensitivity	Impedance	S/N -
PHONO MM	2.5 mV	50 kilohms	87 dB 79dB* (A, 2.5mV)
DAT, CD, VIDEO 1,2,3 TAPE 1,2	150 mV	50 kilohms	105dB 86 dB* (A,150mV)

*'78 IHF

Outputs	DAT OUT, REC OUT 1,2, VIDEO 1
	Voltage 150 mV
	Impedance 10 kilohms
	SPEAKER A, B
•	Accepts speakers of 8-16 ohms.
	HEADPHONES
	Accepts high and low immpedance
	headphones
Subsonic filter	6 dB/oct. attenuation below 15 Hz
Muting	– 20 dB
Graphic Equalize	r
	± 10 dB at 63 Hz, 150 Hz, 400 Hz, 1 kHz
	2.4 kHz, 6 kHz, and 14 kHz

AM tuning section

Frequency range 530 - 1,610 kHz (with 10 kHz interval) 531 - 1,602 kHz (with 9 kHz interval) Antenna Loop antenna Usable sensitivity 50 dB/m (at 1,000 kHz or 999 kHz) Signal-to-noise ratio 54 dB (at 50 mV/m) Harmonic distortion 0.3% (50 mV/m, 400 Hz) Selectivity 35 dB (9 kHz), 40 dB (10 kHz) Auto tuning threshold 55 dB

General

System	Tuner section: PLL quartz-locked digital
	synthesizer system
	Preamplifier section:low-noise NF type
	equalizer
	Power amplifier section:pure complementary
	SEPP
Power requiren	nents 120V AC, 60Hz

Pov Power consumption

i ower consumpt	1011
	USA model
	STR-AV1000: 210 watts
	STR-AV900: 170 watts
	Canadian model
	STR-AV1000: 450 VA
	STR-AV900: 380 VA
AC outlets	Two switched, total 100W
Dimensions	Approx. 430x130x356mm (w/h/d)
	(17x5 ¹ / ₈ x14 ¹ / ₈ inches)
	Including projecting parts and controls
Weight	·
STR-AV 1000	Approx. 8.3 kg (18 lb 5 oz) net
STR-AV900	Approx. 7.3 kg (16 lb 2 oz) net
Accessories supp	blied
	FM ribbon antenna (1)
	AM loop antenna (1)
	Remote Commander
	(1. RM-P101 for STR-AV1000,
	RM-U80 for STR-AV 900)
	External antenna connector (1)
	Sony Batteries SUM-3 (NS) (4 for RM-P101
	Remote Commander and 2 for RM-U80
	Remote Commander)

Troubleshooting Guide

Before proceeding through the chek list below, examine the connections and the procedures outlined in the manual.

Should any problem persist after you have checked the following items, consult your nearest Sony dealer.

Radio Broadcast Reception		
Problem	Cause	Solution
Automatic SEARCH operation cannnot be performed.	The unit is in the PRESET EQ LINK mode. (The LINK indicator is lit.)	Press PRESET EQ LINK to make the LINK indicator go out.
No FM station can be located by automatic SEARCH operation.	The signal strength of the stations is too weak.	Press FM TUNING LEVEL to set to LOW level.
The STEREO indicator flickers or does not appear when receiving stereo programs.	A very weak FM station or a noisy FM program is received.	Adjust the antenna or connect an external FM antenna.
		Press the FM MODE button to set to MONO mode.
No AM station can be located by automatic SEARCH operation.	The AM tuning interval is set incorrectly.	Change the tuning interval according to the AM frequency allocation system of your country. (See page 23.)
	The signal strength of the stations is	Adjust the antenna.
	too weak for automatic SEARCH.	Directly tune in the stations. (See page 23.)
No stations can be tuned in by STATION SCAN operation.	No stations have been preset.	Preset the stations by automatic SEARCH operation. (See page 24.)

Graphic Equalizer and Music Index Functions					
Problem	Cause	Solution			
When the function TUNER is selected, you cannot call in a factory-preset or	Although no stations have been stored under that category, the unit is in the	Press PRESET EQ LINK to make th LINK indicator disappear.			
user-memorized equalization curve by pressing the corresponding EQ/MUSIC INDEX CATEGORY button.	LINK ON state (the LINK indicator is lit.)	Store at least one station under that category.			
Equalization curve adjustment is impossible.	The graphic equalizer is in the DEFEAT mode (the DEFEAT indicator is lit).	Press DEFEAT to make the DEFEAT indicator disappear.			
-	The unit is in the LINK ON state (the LINK indicator is lit).	Press PRESET EQ LINK to the LINK indicator disappear.			

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Sound

Problem	Cause	Solution	
No sound is heard even if you adjust VOLUME.	The speaker or program source equipment is not connected correctly.	Connect the equipment correctly.	
	The SPEAKERS selectors are not set correctly.	Set the selectors correctly.	
	The TAPE 2 MONITOR button has been pressed for a program source other than tape deck 2. (The indicator is lit.)	Press the button to disengage.	
	A wrong FUNCTION selector has been pressed.	Check the FREQUENCY/FUNCTION display area, and press the correct FUNCTION selector.	
	The function switch on the VCR is not set correctly.	Check and set it correctly.	
Sound is heard only at a very low volume.	The MUTING button has been pressed. (The MUTING indicator is lit.)	Press the button to disengage.	
One channel does not transmit audio, or the volume from the left and right	The BALANCE control is not set appropriately.	Adjust the BALANCE control.	
speakers is unbalanced.	The speaker or program source is not connected correctly.	Check and properly connect the equipment.	
There is an abrupt loss of sound from one or both of the speakers, and the PROTECTOR indicator flickers in the display window.	A short-circuit problem activates the protective circuit.	Turn off the unit, eliminate the short- circuit problem and turn on the power again. If there is no short-circuit problem, consult your nearest Sony dealer.	
Sound transmitted from the speakers is reversed.	The speakers are not connected correctly.	Connect the right speaker to the R SPEAKER terminals and the left speaker to the L SPEAKER terminals.	
There is lack of bass sound or the instrument position is obscure.	The +/- connection of the speaker is reversed.	Connect the speaker with the correct phase.	
Severe hum or noise is heard.	The connecting cords are not shielded type.	Use shielded type cords.	
	A transformer, motor, TV or fluorescent light affects the connecting cords.	Place the connecting cords in a location away from a transformer or motor, and at least 3 meters (10 feet) from a TV set or a fluorescent light.	
	The audio components are too close to a TV set.	If both are used at the same time, separate the TV from the audio components.	
	The unit is not grounded.	Connect the ground wire to the antenna ground terminal.	
	The connections are loose.	Make secure connections.	
	The plugs and jacks are dirty.	Wipe the plugs and jacks with a cloth lightly dampened with alcohol.	

Remote Commander					
Problem	Cause	Solution			
The remote commander will not	The batteries are exhausted.	Replace the batteries with new ones.			
operate.	The commander head is not pointed toward the unit's front.	Point the commander head toward the receiver.			
	There is an object between the commander and the receiver.	Remove the object.			

Quick Reference

When you operate the unit consulting this Quick Reference, make sure that the unit and the various audio/video equipments are properly connected. (Refer to the Overall Connection Diagram given on page 6.)









Ex.) Tuning in a station memorized under ROCK. Tuning in a categorized station ON -STATION SCAN SYSTEM POWER BOCK PRESET EQ LINK or TUNER Select INDEX channel No. P 40 . H 2









Quick Reference

Video Operations with the STR-AV1000







Video Operations with the STR-AV900

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