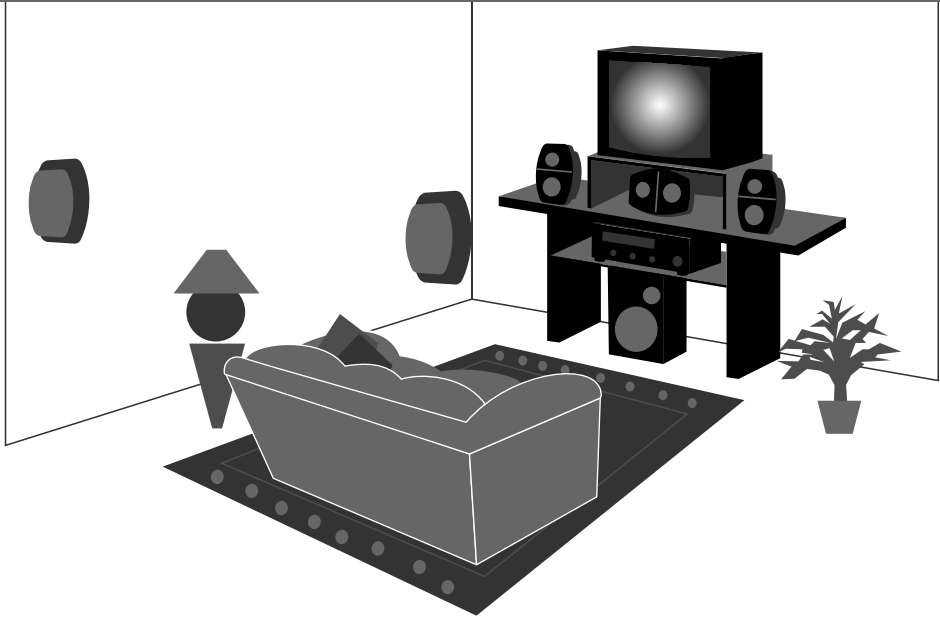




just add your TV and VCR

home theater

SURROUND SOUND SYSTEM



YHT-30
QUICK-CONNECT GUIDE

INTRODUCTION

Yamaha developed the YHT-30 A/V Home Theater package to turn your home into a theater. In addition to enhancing the sound of a video source, like your TV, VCR, or LD player, the YHT-30 also superbly reproduces audio sources, such as a CD player or a cassette deck.

This Quick-Connect Guide will help you get started. Study the speaker system plan (below), and then use the interconnect diagrams (on the following pages) to connect the receiver and speakers to your system.

For the video portion, you will need a hi-fi stereo VCR or laser disc player and a television or monitor. Refer to the *Yamaha R-V902 Owner's Manual*, as well as those that came with your other components, for complete instructions and cautions. Be sure to turn off all power while making connections.

NOTE: Label the end of each speaker wire (i.e., left rear, right front, etc.) before connecting them to the A/V receiver. For wire runs over 30 feet, use larger 18- or 16-gauge speaker wire.

TOOLS AND PARTS

The YHT-30 Home Theater package consists of (1) R-V902 A/V receiver with (1) RAV120 learning remote control, (1) CLS-100 package containing (5) 2-way NS-A425 speakers, 100' of speaker wire, (1) SW3 Powered Subwoofer, and related owner's manuals.

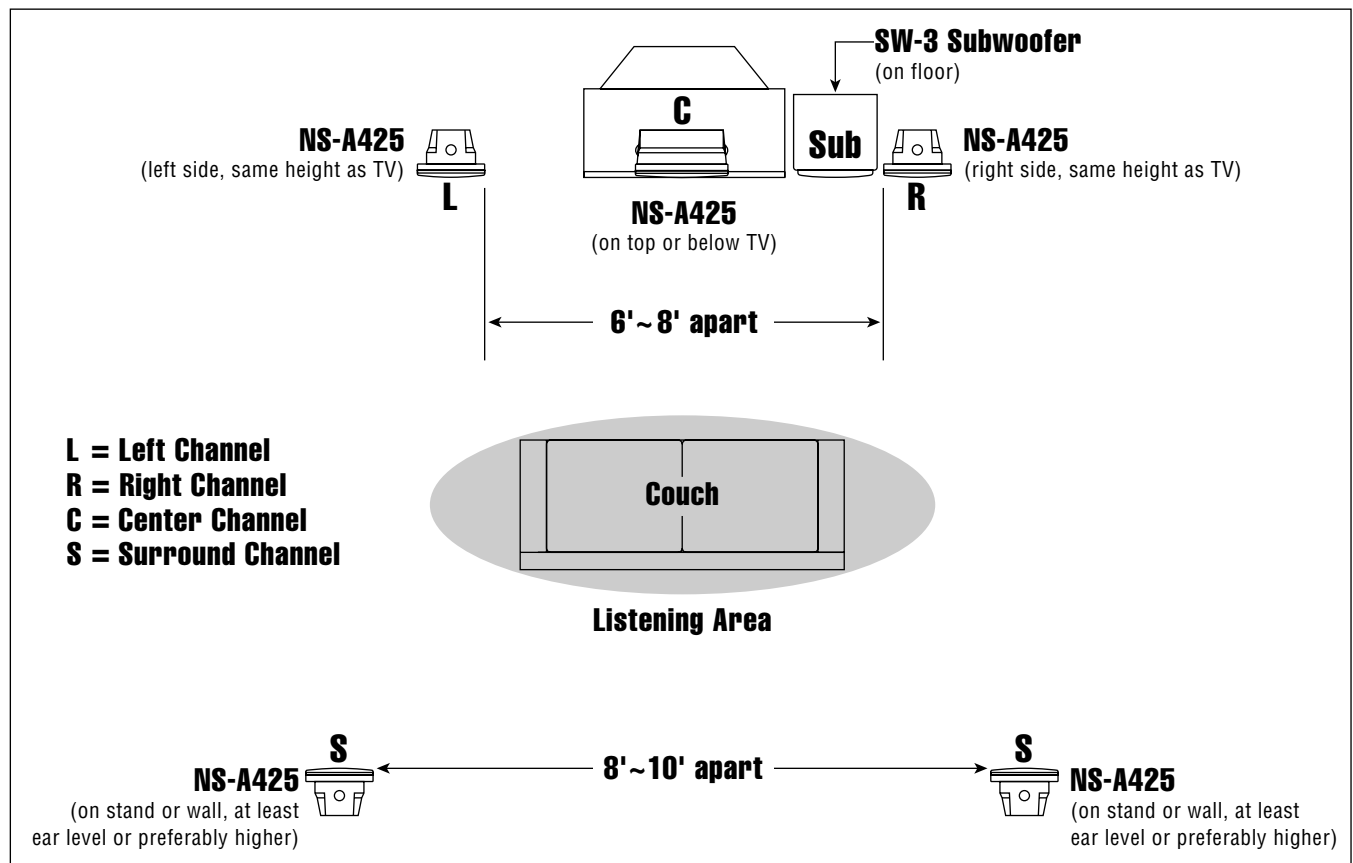
You will also need:

- Wire strippers (optional)

- Velcro (for secure fastening of a NS-A425 on TV)
- Toggle bolts, molly anchor screws, or sheet metal screws (for securing NS-A425 speakers to walls)

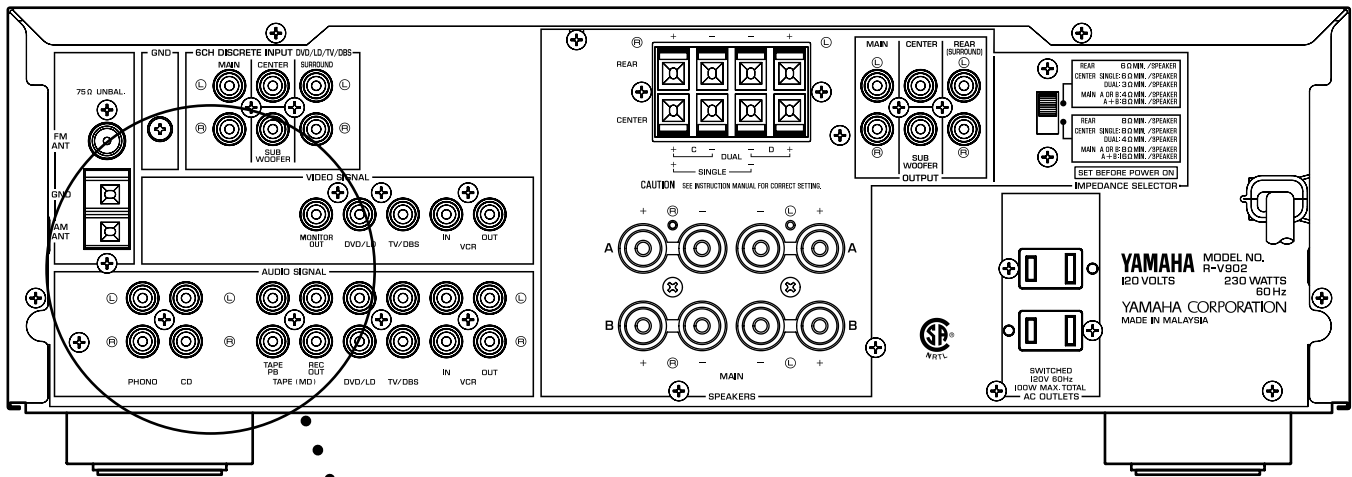
NOTE: If you are unsure of how to securely and safely fasten speakers to a wall, please contact a reliable source about the best type of hanger for your particular wall's construction. Secure installation is the purchaser's responsibility.

SPEAKER SYSTEM PLAN

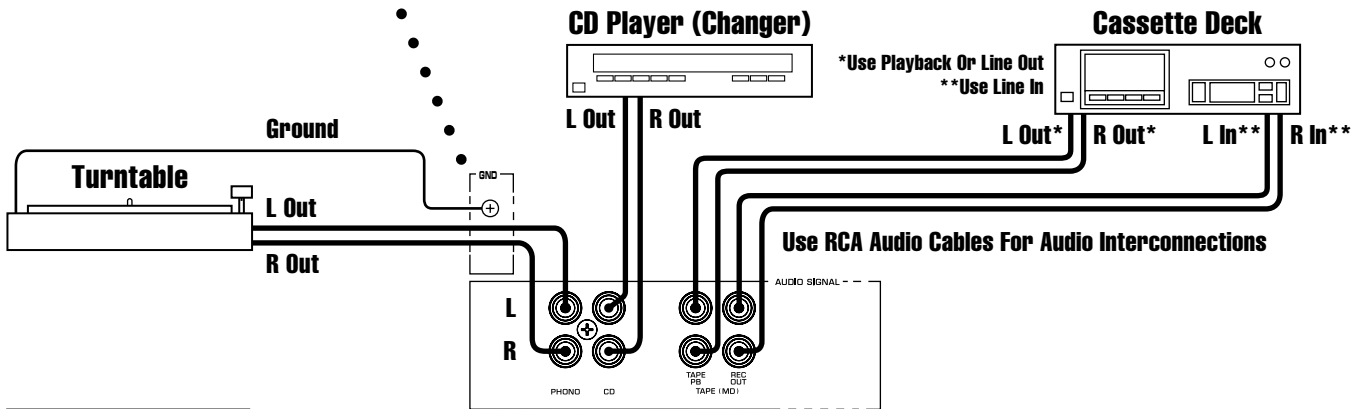


CONNECTING AUDIO COMPONENTS

Yamaha R-V902 Receiver (Rear Panel)



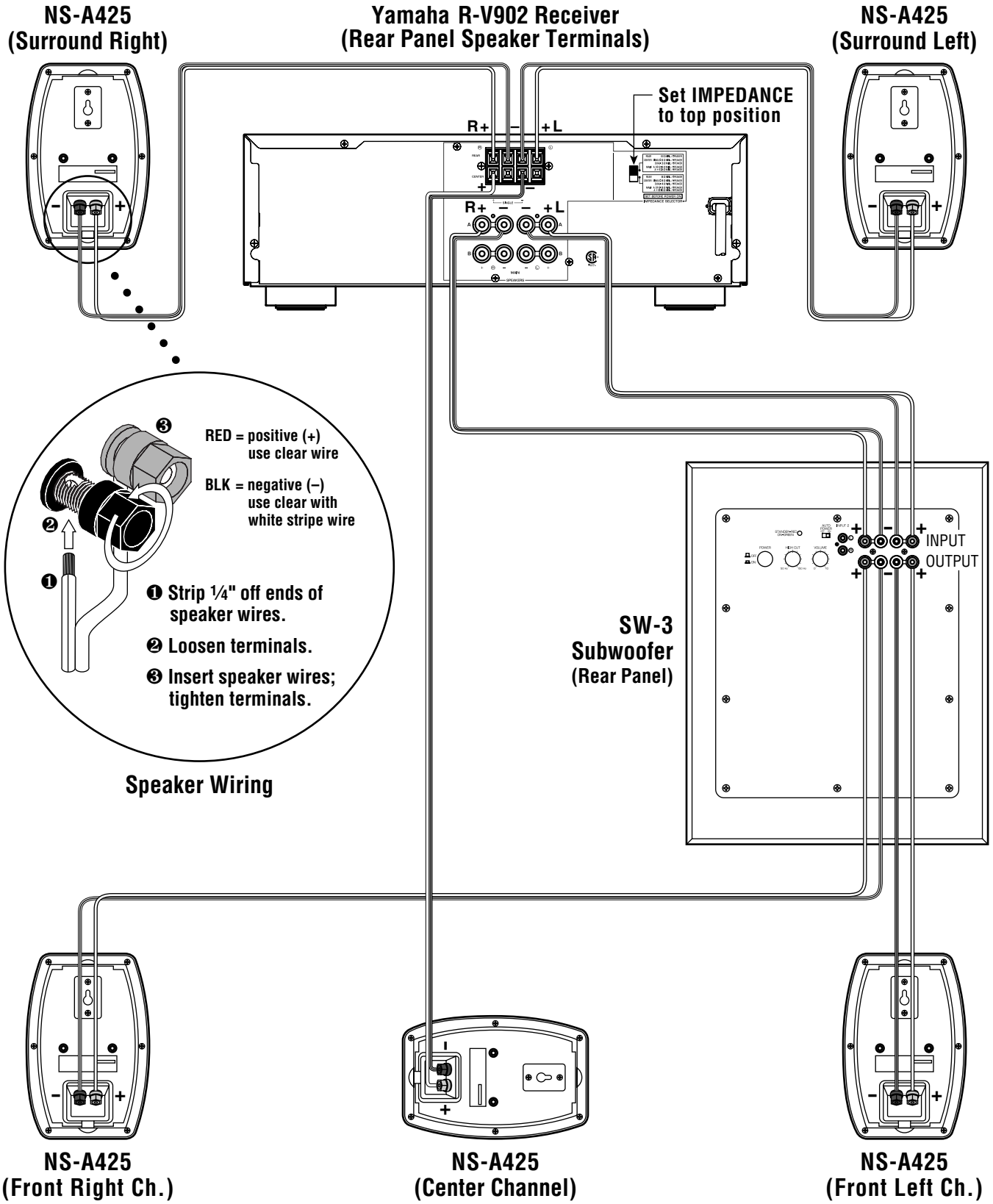
NOTE: For your convenience, the Yamaha R-V902 receiver is equipped with two switched AC outlets (100 W max.). If desired, use them to power on connected components (e.g., CD player or turntable) each time the receiver is turned on. However, do not use them for components equipped with clocks (e.g., VCR).



RCA Cable Color Codes
 Yellow = Video
 White = Left Audio
 Red = Right Audio

YAMAHA YHT-30 QUICK-CONNECT GUIDE

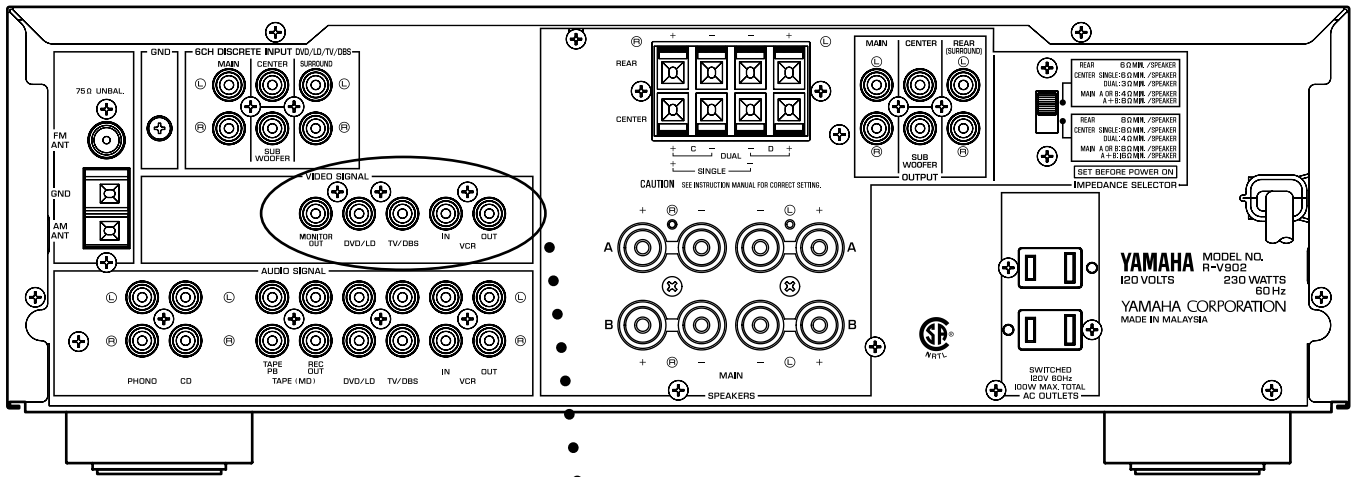
CONNECTING THE YHT-30 SPEAKERS



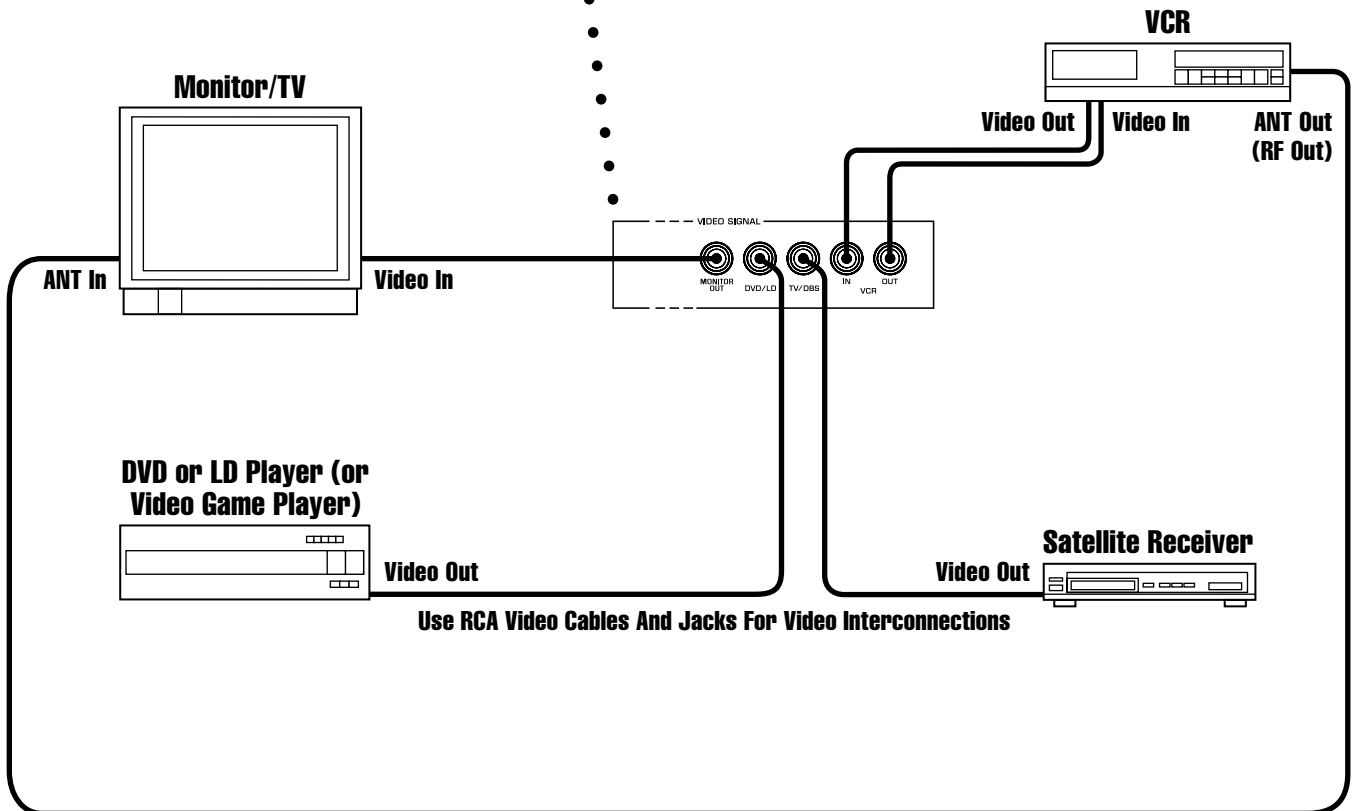
YAMAHA **YHT-30 QUICK-CONNECT GUIDE**

CONNECTING VIDEO CABLES FOR VIDEO COMPONENTS

Yamaha R-V902 Receiver (Rear Panel)



NOTE: When using a hi-fi stereo VCR, set the Tuner/Line switch (on the VCR) to Line position to record from another source connected to the Yamaha R-V902 receiver.



Use RCA Video Cables And Jacks For Video Interconnections

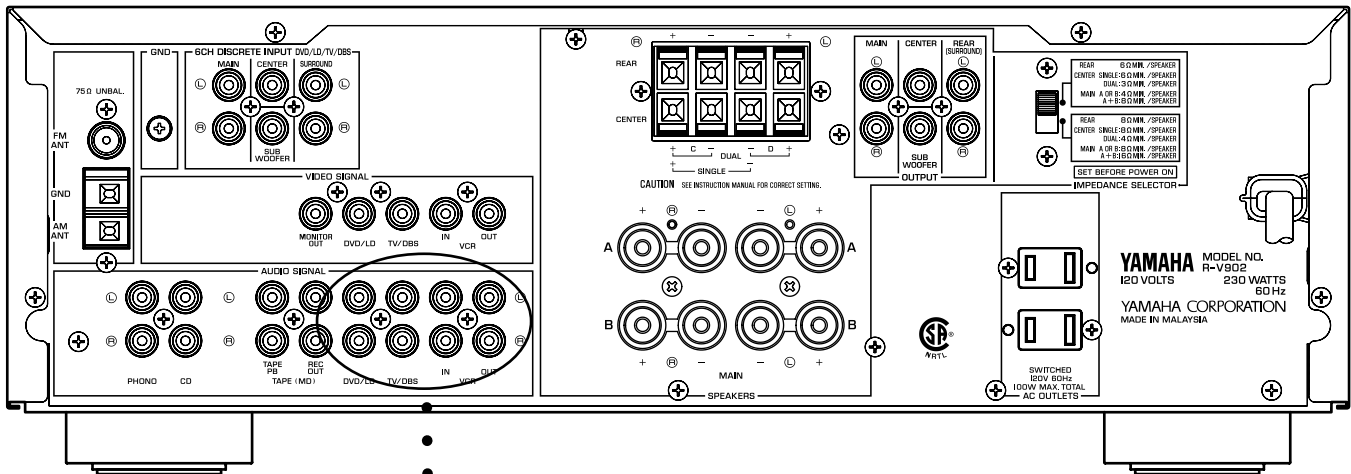
Optional 75-ohm Coaxial Cable

RCA Cable Color Codes
 Yellow = Video
 White = Left Audio
 Red = Right Audio

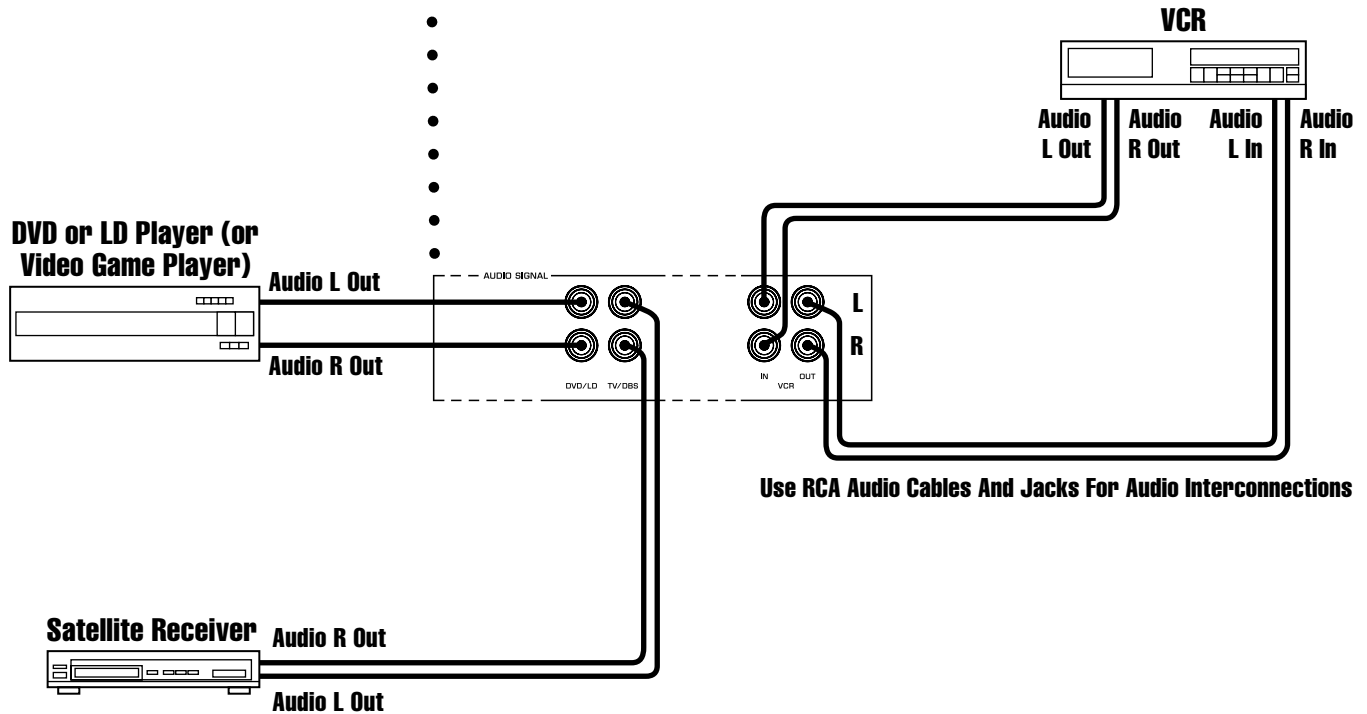
YAMAHA **YHT-30 QUICK-CONNECT GUIDE**

CONNECTING AUDIO CABLES FOR VIDEO COMPONENTS

Yamaha R-V902 Receiver (Rear Panel)



NOTE: When using a hi-fi stereo VCR, set the Tuner/Line switch (on the VCR) to Line position to record from another source connected to the Yamaha R-V902 receiver.



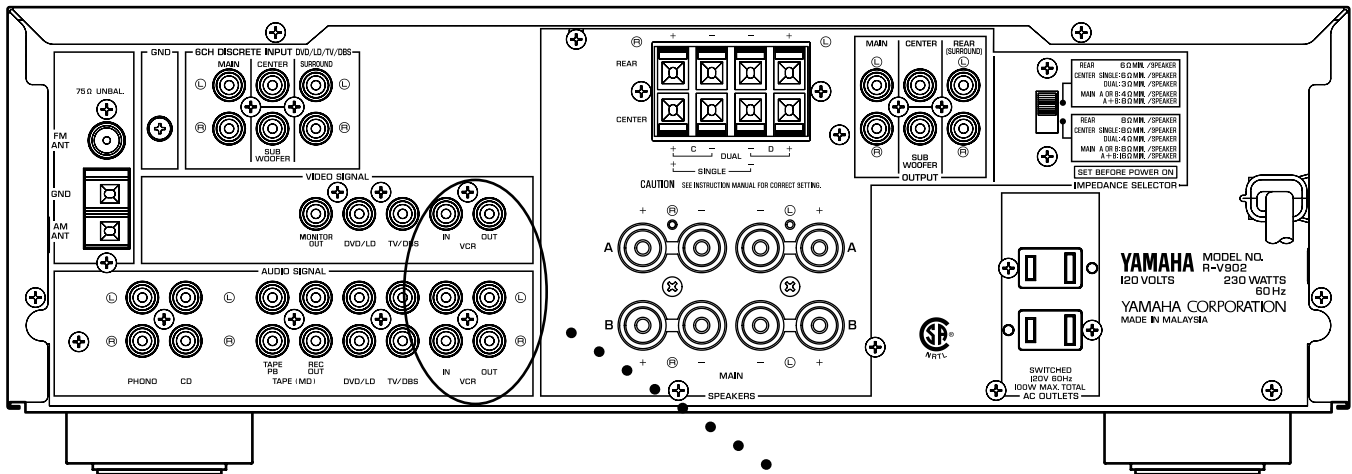
Use RCA Audio Cables And Jacks For Audio Interconnections

RCA Cable Color Codes
 Yellow = Video
 White = Left Audio
 Red = Right Audio

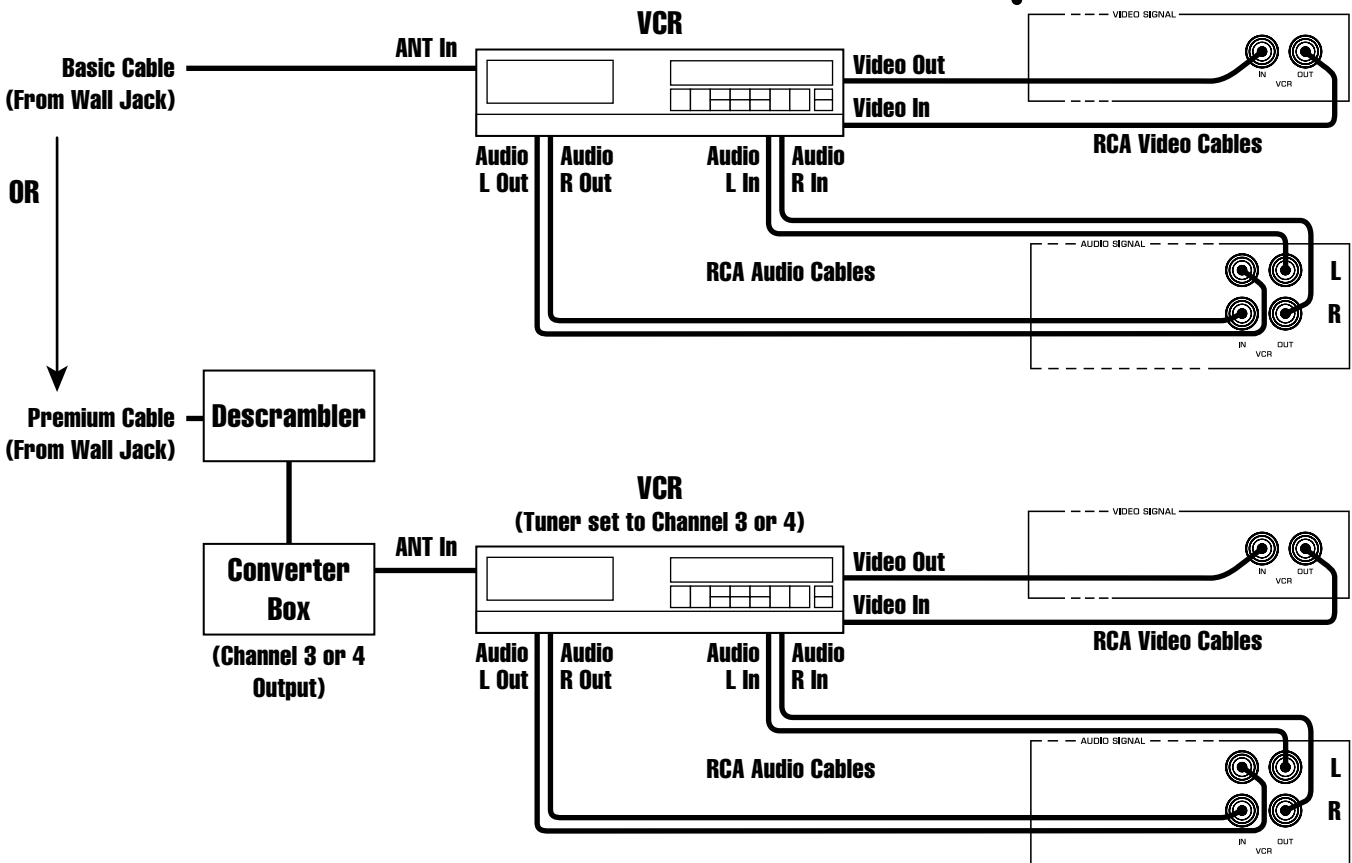
YAMAHA **YHT-30 QUICK-CONNECT GUIDE**

CABLE HOOK-UP (BASIC AND PREMIUM CHANNELS)

Yamaha R-V902 Receiver (Rear Panel)



NOTE: When using a hi-fi stereo VCR, set the Tuner/Line switch (on the VCR) to Line position to record from another source connected to the Yamaha R-V902 receiver.



RCA Cable Color Codes
 Yellow = Video
 White = Left Audio
 Red = Right Audio

PROGRAMMING THE REMOTE CONTROL (RAV120)

The YHT-30 Home Theater package includes the RAV120 (Learning) Remote Control. It includes factory presets to control your R-V902 receiver and most Yamaha audio components (see pages 32 through 42 of the *R-V902 Owner's Manual*).

To control other brands of components (i.e., TV, VCR, etc.), you will need to program the RAV120 to learn the functions of each of your components' remote controls.

NOTE: The RAV120 can learn and control most major brands of audio and video components with remote control transmitters. For other units, use the original remote control supplied with the product.

How The RAV120 Works

The RAV120 can learn the functions of other remote controls, so one remote will control your home theater audio and video components.

The shaded areas shown in the illustration on the left have learning capabilities, using data stored in any of three different memories:

- A is preprogrammed for Yamaha audio components
- B for video components
- C for additional components, unique functions, or non-Yamaha audio components

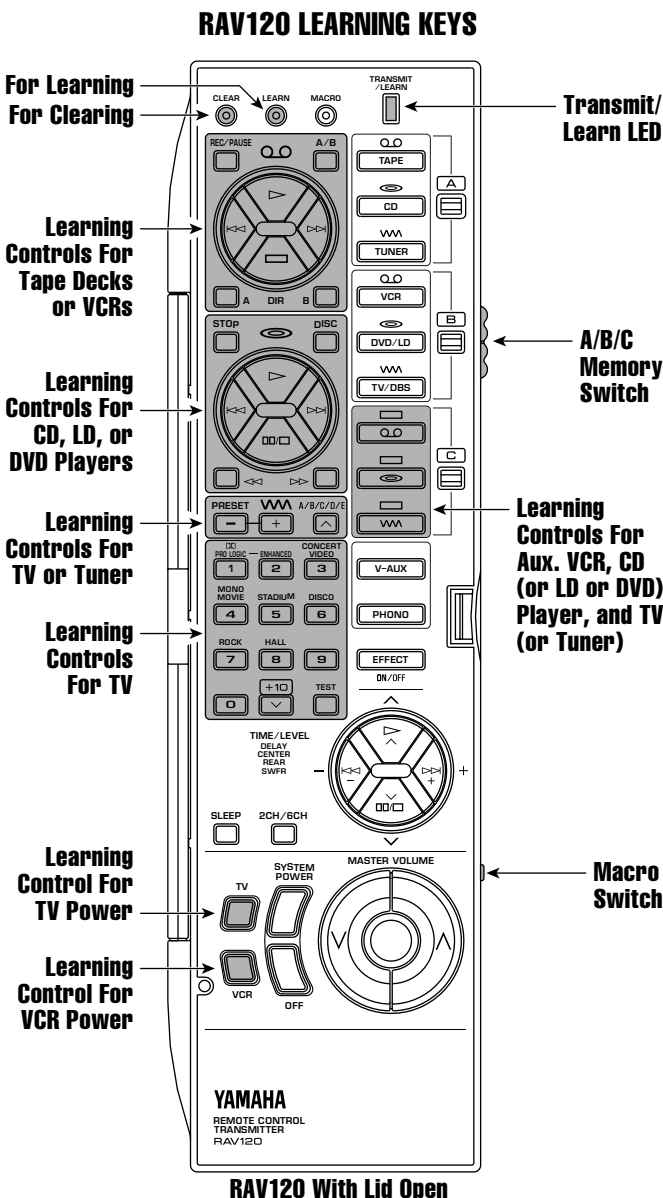
Unshaded buttons will become control buttons, once the appropriate functions have been programmed into the RAV120.

Use the following sections to set up the RAV120 and to program most of the standard VCR and TV functions. Once you have programmed the RAV120, you can close the lid to conveniently access and control most of the functions of your audio and video equipment.

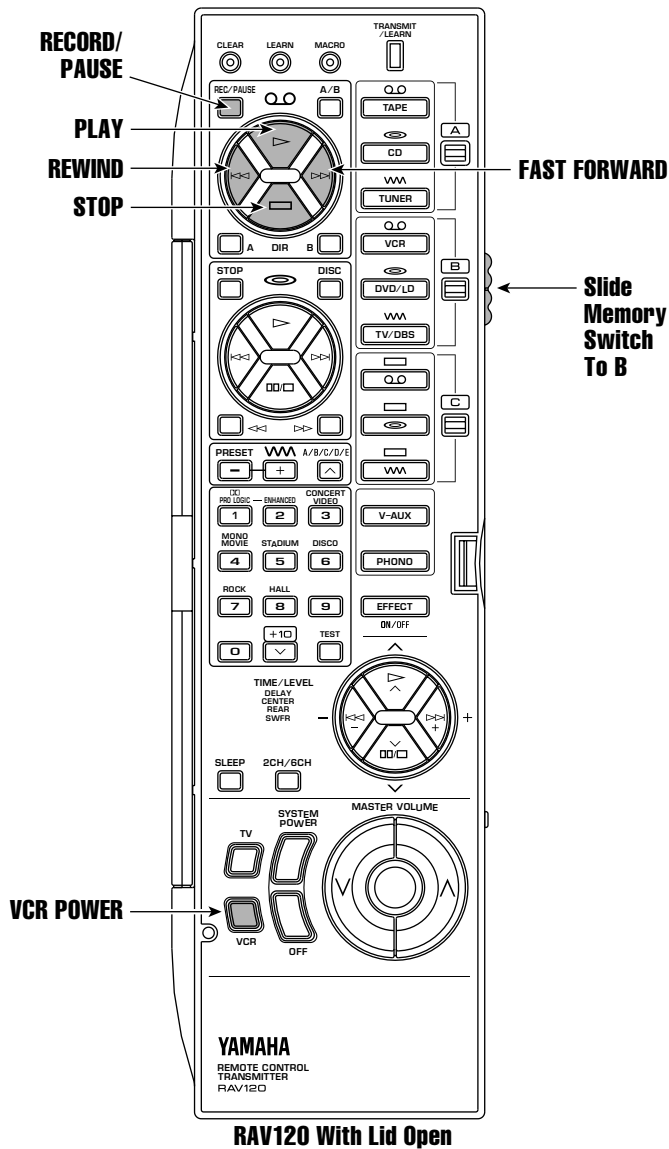
How To Set Up The RAV120

1. Load the supplied batteries into the remote control.
2. Open the lid of the remote control.
3. Perform the instructions on the next two pages to program VCR and TV remote-control functions.

- See page 11 for instructions on *Using Factory-Preset Operations* and *Operating A Yamaha CD or Tape Player*.
- See page 12 for instructions on *Creating A Macro*.



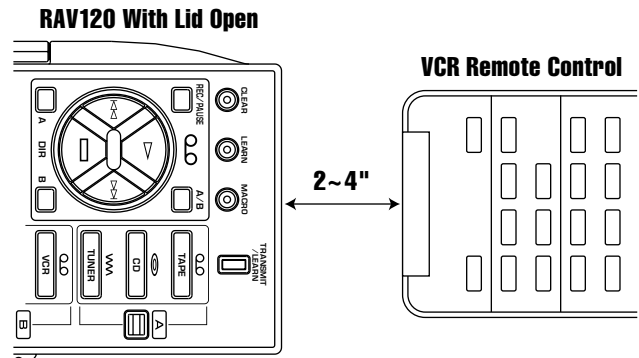
LOCATIONS OF VCR LEARNING BUTTONS



How To PROGRAM VCR REMOTE FUNCTIONS

To program basic functions of the VCR remote, we suggest you learn functions into all the shaded buttons shown in the illustration on the left:

1. On the RAV120, slide the MEMORY switch to position B.
2. Aim the VCR remote control transmitter (usually located at the top) at the top of the RAV120.



3. On the RAV120, use a paper clip or mechanical pencil to press LEARN. The TRANSMIT/LEARN red LED will start to flash.

NOTE: If there is no operation for about 30 seconds after a button is pressed, the TRANSMIT/LEARN LED will flash repeatedly. If this occurs, restart from step 3.

4. On the RAV120, press and hold the button to which you want to assign the function until the TRANSMIT/LEARN LED turns on.
5. On the VCR remote, press and hold the button for the corresponding function until the TRANSMIT/LEARN LED turns off.

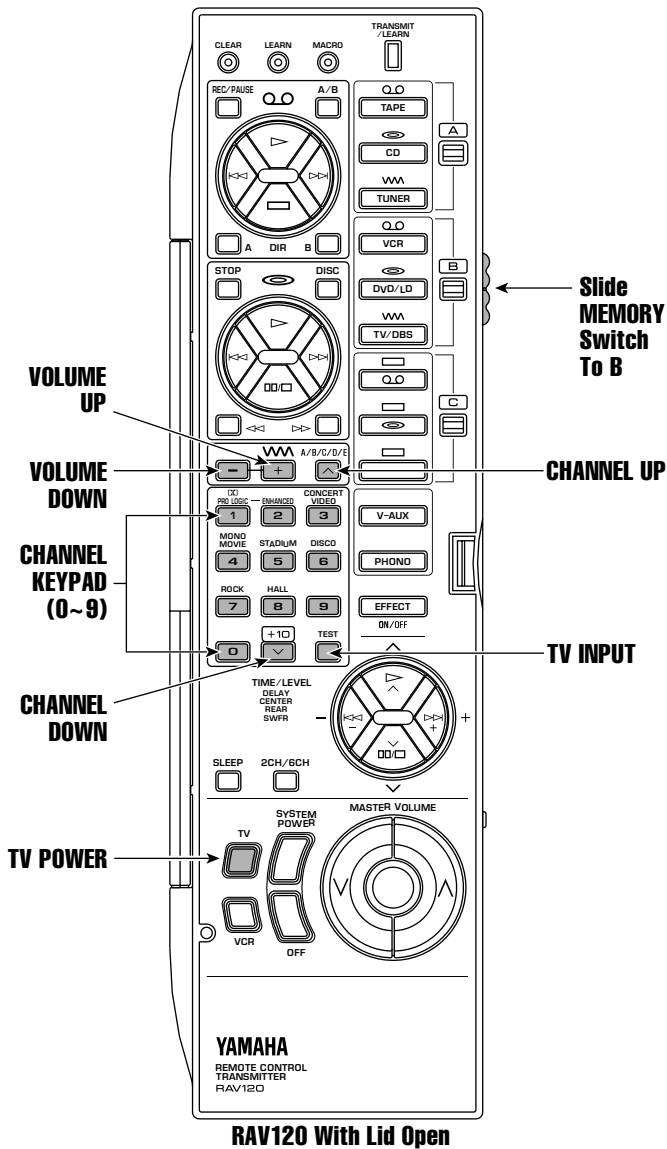
NOTE: If a VCR remote function has two buttons and the RAV120 has one, then press both VCR remote buttons simultaneously to learn the function into the RAV120.

6. The RAV120's TRANSMIT/LEARN red LED will flash slowly after the function is learned.

NOTE: If the RAV120's TRANSMIT/LEARN red LED flashes rapidly, the function has not been learned. Repeat steps 5 and 6 to program the function.

7. Continue programming until you have learned functions into all of the shaded buttons.
8. Press LEARN.
9. To test programming, press VCR (power) to turn on the VCR. Then press each button you've programmed. Repeat steps 1 through 8 for any function that does not respond.

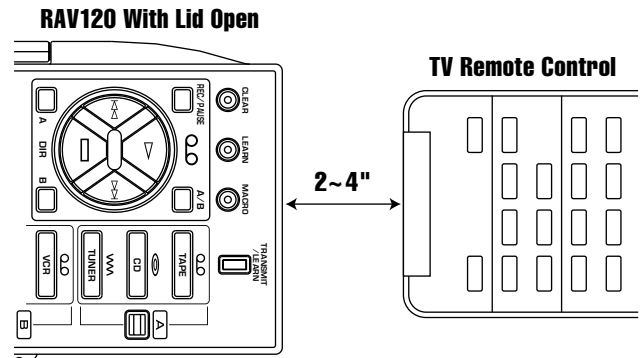
LOCATIONS OF TV LEARNING BUTTONS



How To PROGRAM TV REMOTE FUNCTIONS

To program basic functions of the TV remote, we suggest you learn functions into all the shaded buttons shown in the illustration on the left:

1. On the RAV120, slide the MEMORY switch to position B.
2. Aim the TV remote control transmitter (usually located at the top) at the top of the RAV120.



3. On the RAV120, use a paper clip or mechanical pencil to press LEARN. The TRANSMIT/LEARN red LED will start to flash.
4. On the RAV120, press and hold the button to which you want to assign the function until the TRANSMIT/LEARN LED turns on.
5. On the TV remote, press and hold the button for the corresponding function until the TRANSMIT/LEARN LED turns off.

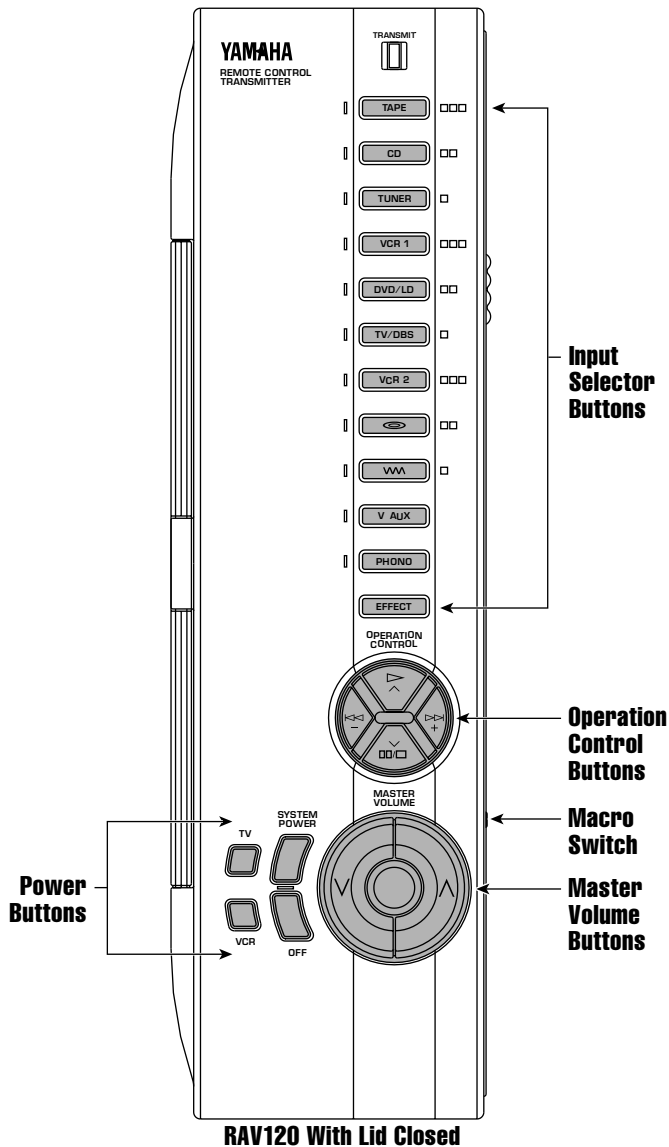
NOTE: If there is no operation for about 30 seconds after a button is pressed, the TRANSMIT/LEARN LED will flash repeatedly. If this occurs, restart from step 3.

6. The RAV120's TRANSMIT/LEARN red LED will flash slowly after the function is learned.

NOTE: If the RAV120's TRANSMIT/LEARN red LED flashes rapidly, the function has not been learned. Repeat steps 5 and 6 to program the function.

7. Continue programming until you have learned functions into all of the shaded buttons.
8. Press LEARN.
9. To test programming, press TV (power) to turn on the TV. Then press each button you've programmed. Repeat steps 1 through 8 for any function that does not respond.

RAV120 BASIC OPERATION CONTROLS



USING FACTORY-PRESET OPERATIONS

In addition to the programmable VCR and TV functions, the RAV120 will also perform several factory-preset operations without additional programming (see the illustration on the left):

1. Close the lid of the RAV120. Slide the Macro switch (on the side of the RAV120) to QUICK.
2. Press the SYSTEM POWER button to power up your R-V902, VCR, and TV.

NOTE: Since power ON and OFF are controlled by the same button on most audio and video components, the (SYSTEM POWER) OFF button may not turn off your VCR and TV automatically (see "Creating A Macro" on the next page).

3. Press the VCR button to set the input on the R-V902 to VCR and put the VCR into PLAY mode. (Make sure there is a videocassette in the machine.)

NOTE: You may have to adjust the INPUT on your TV to see the VCR's video signal. If you have programmed the TV inputs into the RAV120's TEST button, simply press it (one or more times) until you see tape playback.

4. Press the OPERATION CONTROL buttons to control the last component selected. For example, if you pressed the VCR button last, the OPERATION CONTROL buttons will control the VCR.

OPERATING A YAMAHA CD OR TAPE PLAYER

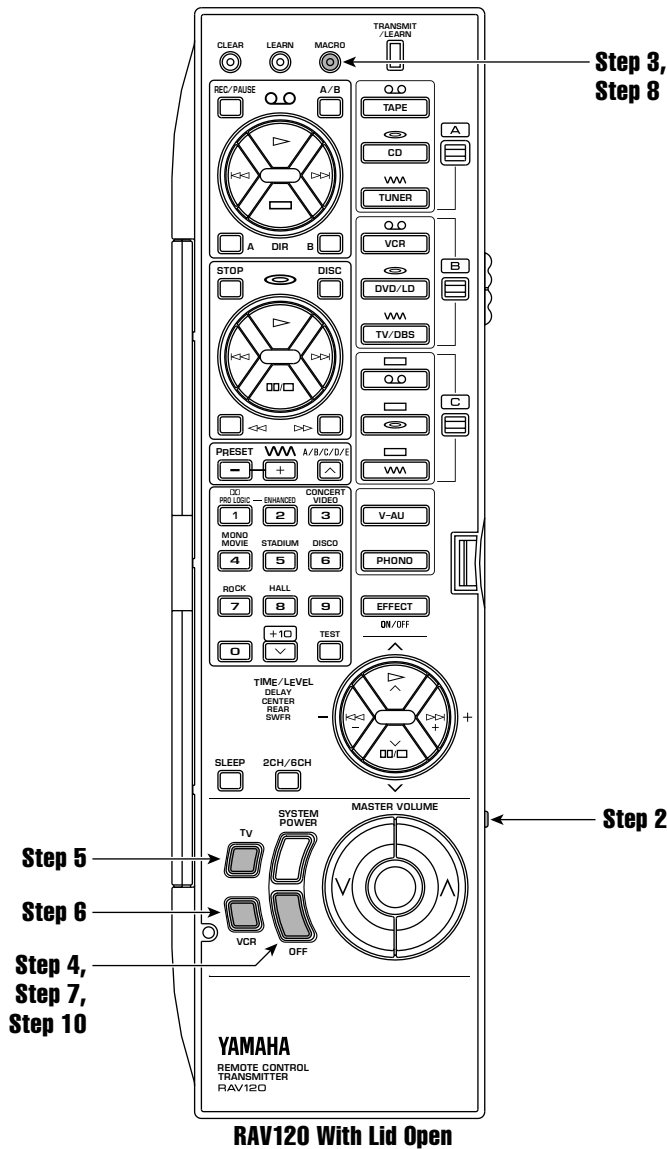
Most Yamaha CD and tape player functions are already programmed into the RAV120.

For example, to operate a Yamaha CD player, perform the following steps:

1. Turn on the CD player and load a CD.
2. Close the lid of the RAV120. Slide the Macro switch (on the side of the RAV120) to QUICK.
3. Press the CD button. The R-V902 will switch to CD and automatically begin playing the CD.
4. Try the other OPERATION CONTROL buttons to advance to the next track, go back a track, or stop the CD.

NOTE: For remote operation of other CD player functions (e.g., DISC), open the lid and use the green controls assigned to that component.

LOCATIONS OF MACRO CONTROLS



CREATING A MACRO

A macro is a series of commands assigned to a single button. Once you have programmed your other components' remotes into the RAV120, you can create macros (also see *Making A New Macro* on page 40 of the *Yamaha R-V 902 Owner's Manual*).

For example, if you frequently turn on the R-V902, VCR, and TV, follow the steps below to create a macro that will power down these components:

1. Open the lid of the RAV120.
2. Slide the Macro switch (on the side of the RAV120) to QUICK.
3. Use a paper clip or mechanical pencil to press the MACRO selector.
4. Press the OFF button to clear the original factory macro and assign the new sequence of functions (i.e., steps 5, 6, and 7) to this button.
5. Press the TV button.
6. Press the VCR button.
7. Press the OFF button.
8. Press the MACRO selector to create the macro.
9. Close the lid of the RAV120.
10. Press OFF to try your macro program. If it doesn't work, slide the Macro switch (on the side of the RAV120) to SLOW and repeat steps 1 through 10.



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