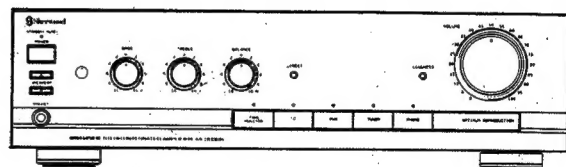


OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG



SHER-00370



AX-3030R

Stereo Integrated Amplifier
Integrierter Stereoverstärker

 **Sherwood**



Unpacking and Installation

Congratulations on Your Purchase!

Your new high fidelity Amplifier is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your Amplifier and help insure a trouble free installation.

Please unpack your Amplifier carefully. We recommend that you save the carton and packing material. They will be helpful if you ever need to move your unit and may be required if you ever need to return it for service. Your Amplifier is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience. To avoid early damage, never place the unit near radiators, in front of heating vents, in direct sun light, or in excessively humid or dusty location.

Connect your complementary components as illustrated in the following section.



CAUTION
 RISK OF ELECTRIC SHOCK
 DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attention: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

WARNING

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

Read this Before Operating Your Unit

For Europe 220V/230V

FOR YOUR SAFETY

To ensure safe operation the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician. Units shipped to Europe are designed for operation on 220V/230V AC only.

Rear Panel Connections

1. SYSTEM GROUND TERMINAL

To reduce hum to a minimum, this terminal is used to interconnect the chassis or ground lead of the Turntable to this Amplifier. Attach the ground lead from your Turntable to this terminal. To further minimize hum, it may be necessary to connect the GROUND terminal with a wire to the nearest water pipe which goes directly to true ground.

2. PHONO INPUT JACKS

Input for turntable with a magnetic or variable-reluctance cartridge having 47,000 ohms of load impedance. Connect shielded cables from your phono arm to the LEFT and RIGHT input jacks. To avoid loss of high frequency response, it is recommended that these cables not exceed 6 feet in length.

NOTE: Do not place your turntable on a speaker enclosure. This will avoid howling caused by transmitting of the speaker vibration to the turntable.

3. TUNER INPUT JACKS

Input for connection of your matching Tuner. You will have leads from the Tuner to connect to this Amplifier. One lead will carry the LEFT channel information and should be connected to the LEFT TUNER input. The other lead should be connected to the RIGHT TUNER input.

4. AUX INPUT JACKS

This extra stereo input is provided for any high level sources you may wish to connect to your Amplifier. An additional compact disc player (CD), Video Disc Player, video tape recorder (VTR), a turntable with ceramic cartridge or similar high level source can be plugged into this auxiliary input and selected by the FUNCTION selector switch.

5. CD INPUT JACKS

Connect the output cables of the compact disc player to these jacks marked CD, matching the L (left) and R (right).

6. TAPE PLAY JACKS

The output signal coming from your Tape Deck during playbacks is fed into these jacks and selected as a listening source by depressing the TAPE MONITOR switch on the front panel (MONITOR ON) regardless of the position of FUNCTION selector.

These PLAY jacks may be connected to the line output of the audio processor like an additional graphic equalizer.

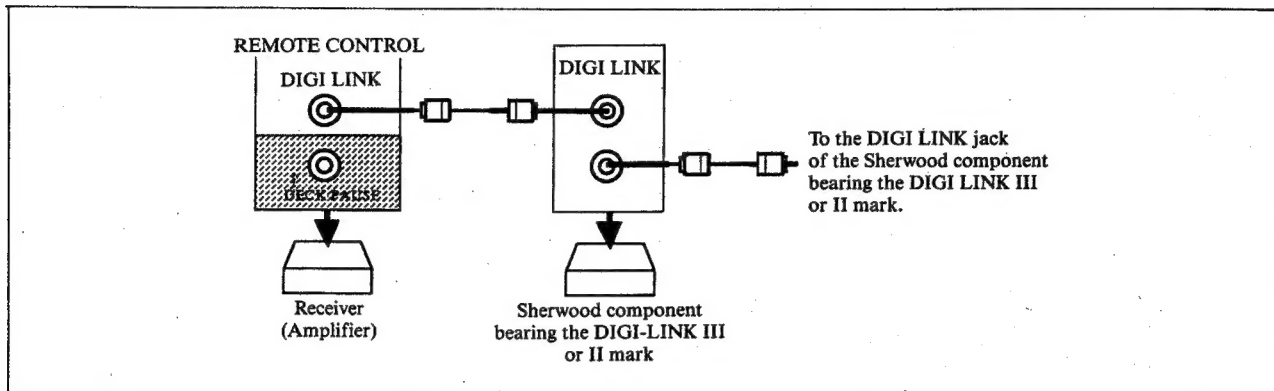
7. TAPE REC JACKS

Signal from this jack is fed to the Rec of Tape Deck for recording purposes. Select the source to be recorded with the FUNCTION selector on the front panel. Tone controls, loudness and volume settings have no effect on the signal from this output for recording except the FUNCTION SELECTOR switch. For monitoring this source while recording, depress the TAPE MONITOR switch and adjust VOLUME, etc. to the desired listening level.

These REC jacks may be used for the line input of the audio processor like an additional graphic equalizer.

8. DIGI LINK JACK

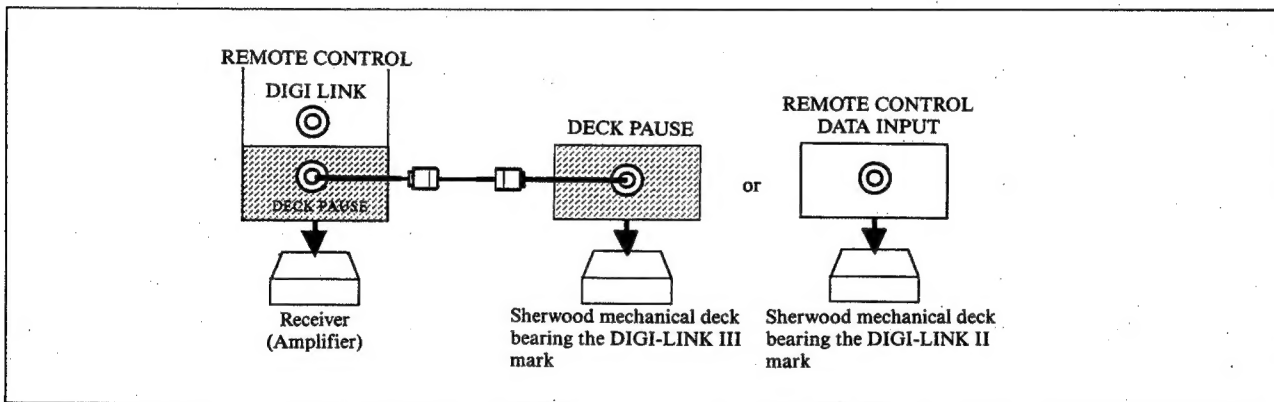
Connect this jack to the DIGI LINK jack of another component including logic control cassette deck. You can control the other components of SHERWOOD in your system remotely by this DIGI-LINK system.



9. DECK PAUSE OUTPUT JACK

Connect this jack to the DECK PAUSE INPUT jack of the mechanical control cassette deck bearing the DIGI-LINK III mark or to the REMOTE CONTROL DATA INPUT jack of the mechanical control cassette deck bearing the DIGI-LINK II mark.

If logic control cassette deck is matched, leave this jack without connection.



10. SPEAKER OUTPUT TERMINAL

Connect your main LEFT and RIGHT speakers to the correspond speaker terminals. For all speaker connections, make sure that the phasing, speaker ohms and speaker selector position are correct. L and R terminals on the Amplifier must be connected to the positive (+) terminal on the speaker and likewise G terminals to the negative (–) terminal.

11. AC INPUT CORD

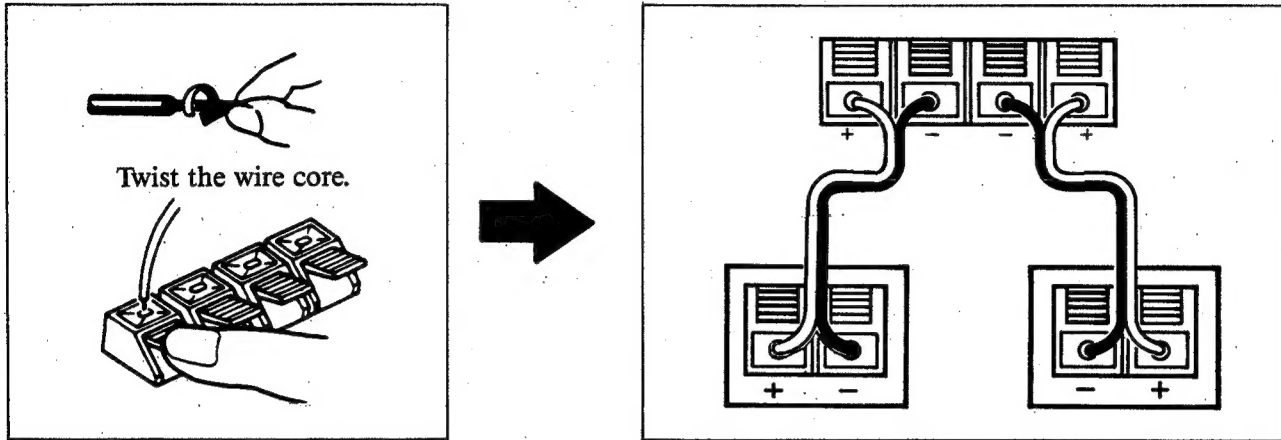
Plug this cord into wall AC outlet.

12. AC SWITCHED OUTLET

This switched AC outlet can be used to control the power of your audio system. Connect the AC cord of your matching cassette deck, EQ or surround processor into these AC outlets and connect the other components of your system to the AC outlets on the cassette deck, EQ or surround processor, etc.

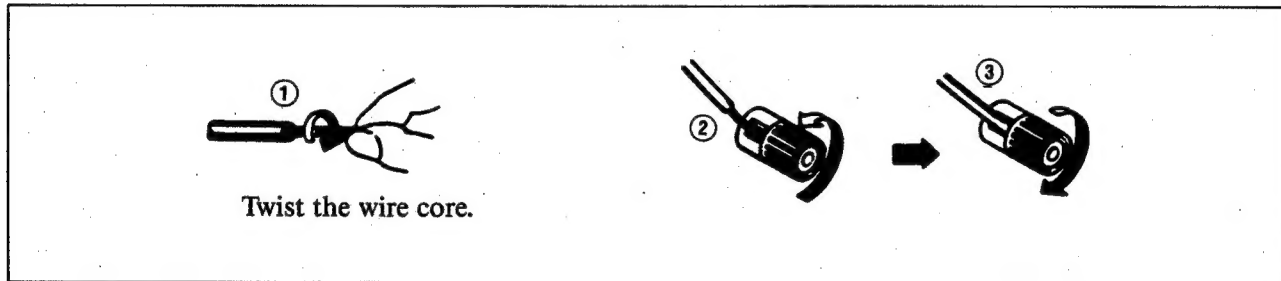
CONNECTING SPEAKER CORDS (FOR OTHER COUNTRIES)

1. Strip off the vinyl covering and twist the tip of the wire core, insert the wire core into the terminal hole.



CONNECTING SPEAKER CORDS (ONLY FOR GERMANY)

1. Strip off the vinyl covering and twist the tip of the wire core.
2. Loosen the knob and insert the wire core into the terminal hole.
3. Tighten the knob to fix the wire core in place.



NOTE:
Be careful not to touch the speaker cords with each other.

Front Panel Connections

1. POWER SWITCH

Press this switch to turn the power on. Press again to turn the power off. It can also be used as the system power switch.

- Automatic Power On: Refer to the remote control section on page 15.

NOTE: In POWER-OFF state, the "STANDBY" indicator will light up and the power is partially supplied into the infrared remote control receiver and the memory circuitry.

2. SPEAKER SWITCH

Pressing this switch activates the speakers connected to the MAIN speaker terminal on the rear panel.

- To drive A speakers, push only A switch in.
- To drive B speakers, push only B switch in.
- To drive both A and B speakers, push A and B switches in. If you drive both A and B speakers, you should use the speakers having impedance of minimum 16 ohms.

3. HEADPHONE JACK

Stereo headphones can be plugged into this jack for private listening or monitoring. For private listening, set the SPEAKER switches to OFF. Headphone impedance should be between 8 and 2,000 ohms. Best results between 200 and 400 ohms.

4. INFRARED RECEIVER WINDOW

This consists of an infrared filtering window and an infrared remote sign receiver. This amplifier receives the pulse code modulated (PCM) infrared signals transmitted by the commander and converts it into the electrical signal to control the system. The infrared filtering window effectively filters out interfering lights to prevent the amplifier from responding to the unwanted noise and light. Do not obstruct this window with any material.

5. BASS CONTROL

Modifies the low frequency sound of left and right channels as much as $\pm 10\text{dB}$. Set this control as a suitable position for your taste room acoustics.

6. TREBLE CONTROL

Modifies the high frequency sound of left and right channels as much as $\pm 10\text{dB}$. Set this control at a suitable position for your taste room acoustics.

7. BALANCE CONTROL

For balancing the relative sound volume of the left and right channel speakers. clockwise rotation reduces the volume from the left speaker, counterclockwise rotation reduces the volume from the right speaker.

8. DIRECT SWITCH

In OFF position (pushed-out), bass and treble controls function normally as they are set. In ON position (pushed-in) the pre-amplified signals are directly connected to the main amplifier without passing through tone control circuit, producing flat frequency response, minimizing phase shift and improving sound quality.

9. FUNCTION INDICATOR

Displays the input mode such as PHONO, CD, TUNER, AUX, TAPE MONITOR.

10. LOUDNESS

To compensate for the response of the human ear at low listening level known as the Fletcher-Munson hearing curve, the low frequency is automatically boosted when the switch is in ON position. In OFF position the frequency response is flat at all volume levels.

11. VOLUME CONTROL

Turning this control clockwise increases the volume of both channels.

12. TAPE MONITOR SWITCH

This switch permits playback or monitoring of Tape Deck connected to the TAPE IN jacks on the rear panel. Setting this switch in "MONITOR-ON" will select your Tape Deck as a listening source regardless of the position of FUNCTION selector. To release the TAPE MONITOR, depress this button again then the "TAPE" indicator will go out.

In recording mode with your compatible Tape Deck, this button can be used as a recording quality check. That is, it is possible to hear whether the recording is equivalent to the source being recorded by depressing this switch repeatedly. In all other cases, leave this switch in MONITOR-OFF position.

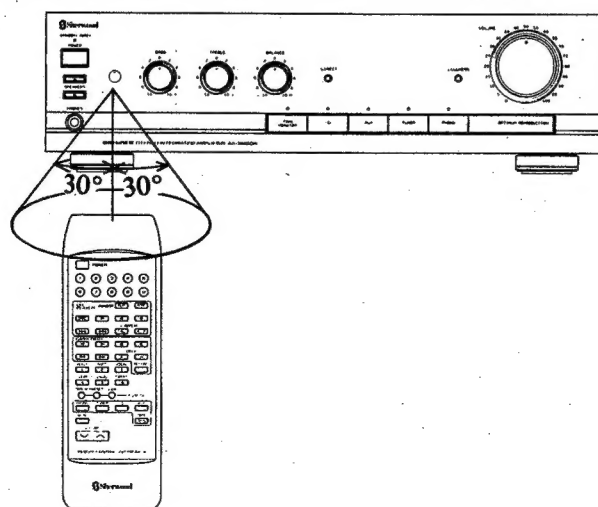
If you connect an equalizer to the TAPE IN/OUT jacks on the rear panel of this amplifier, it will function as an equalizer ON or defeat switch. In this case, leave this switch in MONITOR-ON state and use the EQ DEFEAT and TAPE MONITOR switches on the equalizer.

13. FUNCTION SELECTOR

Switch for selecting desired program sources; AUX, TUNER, CD, PHONO, TAPE MONITOR.

NOTE:

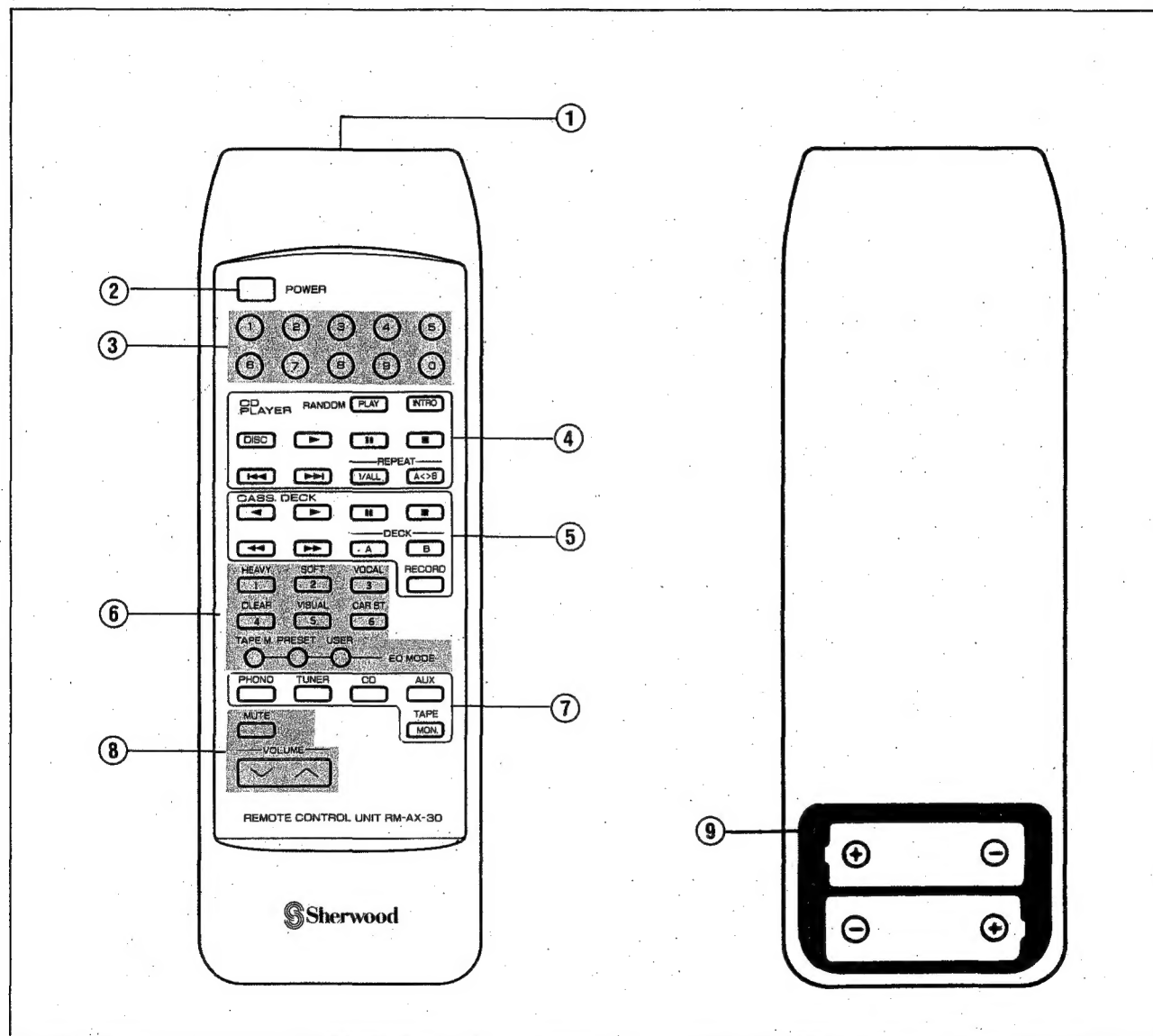
- When each Function is pressed, TAPE MONITOR is released automatically. When using the EQUALIZER, press the TAPE MONITOR key again.
- When you start the CD synchro recording in Cassette DECK, the FUNCTION SELECTOR switch will be selected to CD automatically. During the CD synchro recording, do not select another FUNCTION to prevent recording the undesired source.



REMOTE CONTROL OPERATION RANGE

DIGI-LINK III System Remote Control Operation

You can remotely control not only AX-3030R but also Sherwood compatible components. The remote commander mode No. RM-30 supplied with this amplifier is a common key operation type, for example there is one play button on the commander and it can be used for playing cassette deck, CD player and CD changer etc., so we recommend you to read this section thoroughly. It will explain many features.



1. INFRARED TRANSMITTING WINDOW

The pulse code modulated (PCM) infrared beam is emitted forward from this window whenever you press any one of the buttons on the commander. For best results in remote controls, always face this window towards the window of the infrared remote sign receiver on the Amplifier and do not obstruct this window with any material.

2. SYSTEM POWER CONTROL BUTTON

Press this button to turn the power on. Press again to turn the power off.

NOTE: When a Function button on this remote control unit is pressed at standby mode, the power switch of this amplifier is turned on automatically.

3. 10 KEY PAD AND SEL BUTTON

This 10 key pad can be used for preset tuning in tuner mode, selection of track number in CD mode.

- **Preset tuning.** Press TUN button first to change the amplifier mode to TUNER operation and then press the desired preset number as two touch operation like 1, 2, 29, 30 for preset tuning (maximum applicable number is 30).
- **Selection of CD track number:** Press button CD first to change the amplifier mode to CD operation and then press the desired track number as one touch operation like 1, 2, 98, 99 (maximum applicable number is 99), then playing CD will start immediately.
- **Selection of cassette music program number:** If your compatible cassette deck is Digilink II compatible it can be used to program a music number to be played. Press button TAPE 1/DCC or TAPE 2 first to change the amp mode to cassette deck operation and press button ◀▶ for playing. If you wish to skip the music either forward or reverse direction, press the desired music number to be skipped from the music being played as one touch operation like 1, 2 19, 20 (maximum applicable number is 20), and then press button ▶▶ or ◀◀.

NOTE: This remote operation is applicable if your compatible compact disc player is Digilink II compatible.

4. CD FUNCTION BUTTONS

For CD PLAYER: DISC (CD SELECTOR, this is available for the Sherwood CD changer, CDC-3010R, CDC-5010R), ▶ (play), || (pause), ■ (stop), ◀◀ (reverse search), ▶▶ (forward search), RANDOM PLAY, INTRO, and REPEAT (I/ALL), (A-B). When selecting a DISC, press the Disc button and the desired number (1-5) in the 10 key pad within 2 sec.

5. CASSETTE DECK FUNCTION BUTTONS

The CASSETTE DECK OPERATION buttons can be used to remotely control the compatible CASSETTE DECK. The available buttons are ◀ (reverse play), ▶ (forward play), ▶▶ (rewind), ◀◀ (fast forward), || (pause), ■ (stop), ● (record), and Deck A/B SELECTOR.

NOTE: Remote functions for DD-2010C, DD-1010C is limited to pause only.

If you use a Sherwood single deck, please press deck select button A. (Button B does not have any function in this case)

6. EQUALIZER CONTROL BUTTONS (For use with optional models: EQ-5010C, EQ-3010C)

- **TAPE-M :** This button is usable when the compatible equalizer is connected to the TAPE IN/OUT jacks on the amplifier and the cassette deck is connected to the TAPE IN/OUT.
This button will select the cassette deck connected to the equalizer as a listening source.
- **PRESET :** 6 factory-preset equalizer curves are stored in memory.
- **USER :** User-adjusted equalizer can be programmed as desired and stored in memory up to 6 patterns.

7. INPUT SELECTOR BUTTONS

These are the switches for selecting desired program sources. The available buttons are PHONO, TUNER, CD, TAPE 1, AUX.

By pressing the following buttons, you can not only play the Sherwood's desired program source, but change the FUNCTION SELECTOR SWITCH of this amplifier to corresponding function automatically without pressing it again.

This function can be performed, when this amplifier is connected with only Sherwood components bearing the DIGI-LINK III mark.

Pressing	What you Select.
Play Forward, Play Reverse Play, Intro, Random	TAPE 1/TAPE 1 CD

NOTE:

- * When no disc is set in your CD tray, this function does not performed.
- * When no cassette tape is set in your cassette door, this function does not performed.
(Only logic control cassette deck is available.)

8. AMPLIFIER CONTROL BUTTONS

The applicable buttons are VOLUME UP or DOWN and MUTE.

When the MUTE button is pressed, Mute indicator ( MUTE) of the front panel will flicker and the sound is not coming. This is very useful when you make or receive phone call while operating the amplifier at high listening level, or when you adjust extremely low volume level at midnight. To release muting, press the MUTE button again.

9. DRY BATTERY CASE

This battery case is provided as the power source for the commander. To remove the cover, press it down with the thumb and pull it toward the back side. Two UM-4, size "AAA" or R03 1.5V dry batteries are used. When loading the batteries, make sure that the polarity is correct.

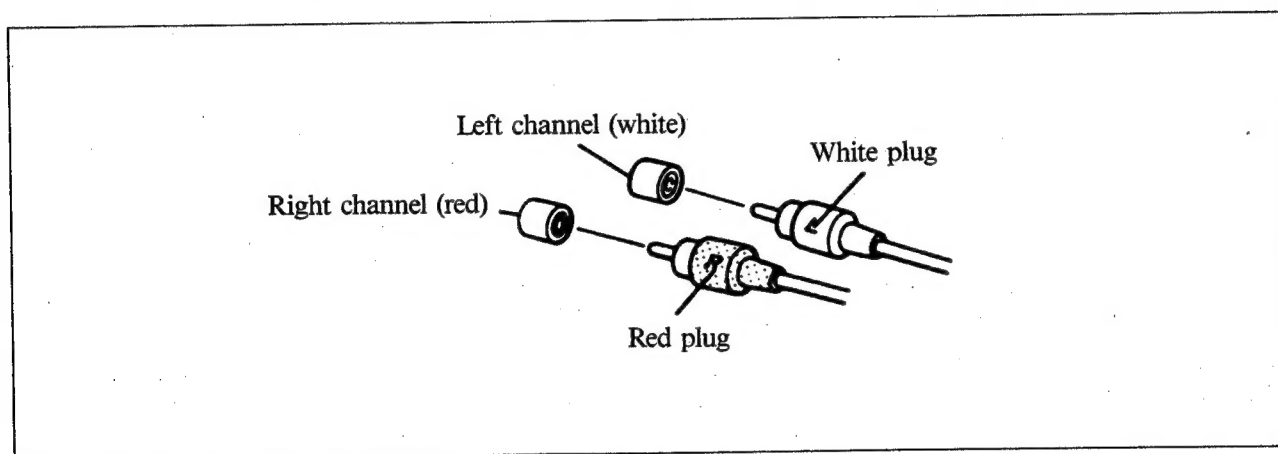
Remove the batteries from the case if the remote commander will not be in use for an extended period of time.

Amplifier Operation

Set the controls and switches as follows: See page 12.

1. Set the volume control ⑪ to extreme counterclockwise position.
2. Set the BALANCE control ⑦ to the center position.
3. Turn the POWER on so that function indicator ⑨ will then light up.
4. Set the SPEAKER switch ② to A, B or A + B.
5. Switch on a desired external sound source connected to the input jacks of the rear panel. The external source may be a CD Player, Turntable, Cassette Deck, AUX, TUNER.
6. Operate the sound source selected for playback.
7. Slowly rotate volume control ⑪ clockwise until you get the desired sound level.
8. Adjust the BASS and the TREBLE control to a suitable position for your taste and room acoustics.
9. Adjust stereo balance with the BALANCE control ⑦.

CONNECTING INPUT/OUTPUT CORDS



Connect the white plug to the L (left) side, and the red plug to the R (right) side. Be sure to push the plugs in securely.

Troubleshooting

Symptom	Probable Cause	Remedy
No power supplied to unit	<ul style="list-style-type: none"> • Power plug is disconnected from outlet. • The component power plug has been plugged into another component power outlet (e.g. timer, etc.), but power to that unit is disconnected. 	<ul style="list-style-type: none"> • Insert plug securely in outlet. • Turn on power to the other component.
No sound	<ul style="list-style-type: none"> • Connecting cords are disconnected from terminals, or connected incorrectly. • Jacks or connecting cords pin plugs are dirty. • Did not select the component being played back. • Operation of other components is incorrect. • The SPEAKERS selector switch is set to "OFF". 	<ul style="list-style-type: none"> • Connect securely. • Clean terminals and plugs. • Select the input function correctly. (PHONO, TUNER, CD, AUX, TAPE MONITOR) • Consult the operating instructions for the other components. • Set the switch to "A", "B" or "A + B".
No sound from one speaker	<ul style="list-style-type: none"> • Connecting cords or speaker cords are disconnected on that side. • BALANCE control has been adjusted to one side. 	<ul style="list-style-type: none"> • Connect securely. • Adjust BALANCE control to center position.

Specifications (Europe Version)

POWER OUTPUT per channel	
IEC standard, 40 Hz to 20 KHz, 8 ohms	35W+35W
DIN standard, 1 KHz, 8 ohms	40W+40W
THD. 35W Output, 8 ohms, 1 KHz	0.01%
IMD. 31W Output, 8 ohms, 1KHz	0.04%
DAMPING FACTOR at 1 KHz, 8 ohm	50
INPUT SENSITIVITY for 35W output, 8 ohms at 1 KHz	
PHONO	2.5 mV
AUX/TUNER	150 mV
PHONO PREAMP INPUT OVERLOAD at 1 KHz, 0.1% THD	150 mV
at 10 KHz, 0.1% THD	600 mV
SIGNAL TO NOISE RATIO, IEC "A" wtd/unwtd	
PHONO: 2.5mV input, 4.7K ohm shorted, VOL Adj 35W	70/65 dB
AUX: 150mV input, 4.7K ohm shorted, VOL Adj 35W	90/85 dB
FREQUENCY RESPONSE	
PHONO, RIAA 40-20,000	±0.5 dB
AUX at 1W, -3 dB	20 Hz — 50 KHz
LOUDNESS CONTROL	
at 100 Hz	±7 dB
TONE CONTROL	
Bass at 100 Hz	±10 dB
Treble at 10 KHz	±10 dB
POWER CONSUMPTION	270W MAX
AMPLIFIER DIMENSIONS (W×H×D)	440(W)×110(H)×245(D) mm
AMPLIFIER WEIGHT	7 Kg

NOTE: Design and specifications are subject to change without notice for improvement.